

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032431.D
 Acq On : 11 Nov 2025 15:21
 Operator : SY/MD
 Sample : Q3599-01
 Misc : 5.08g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 12 03:50:56 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)

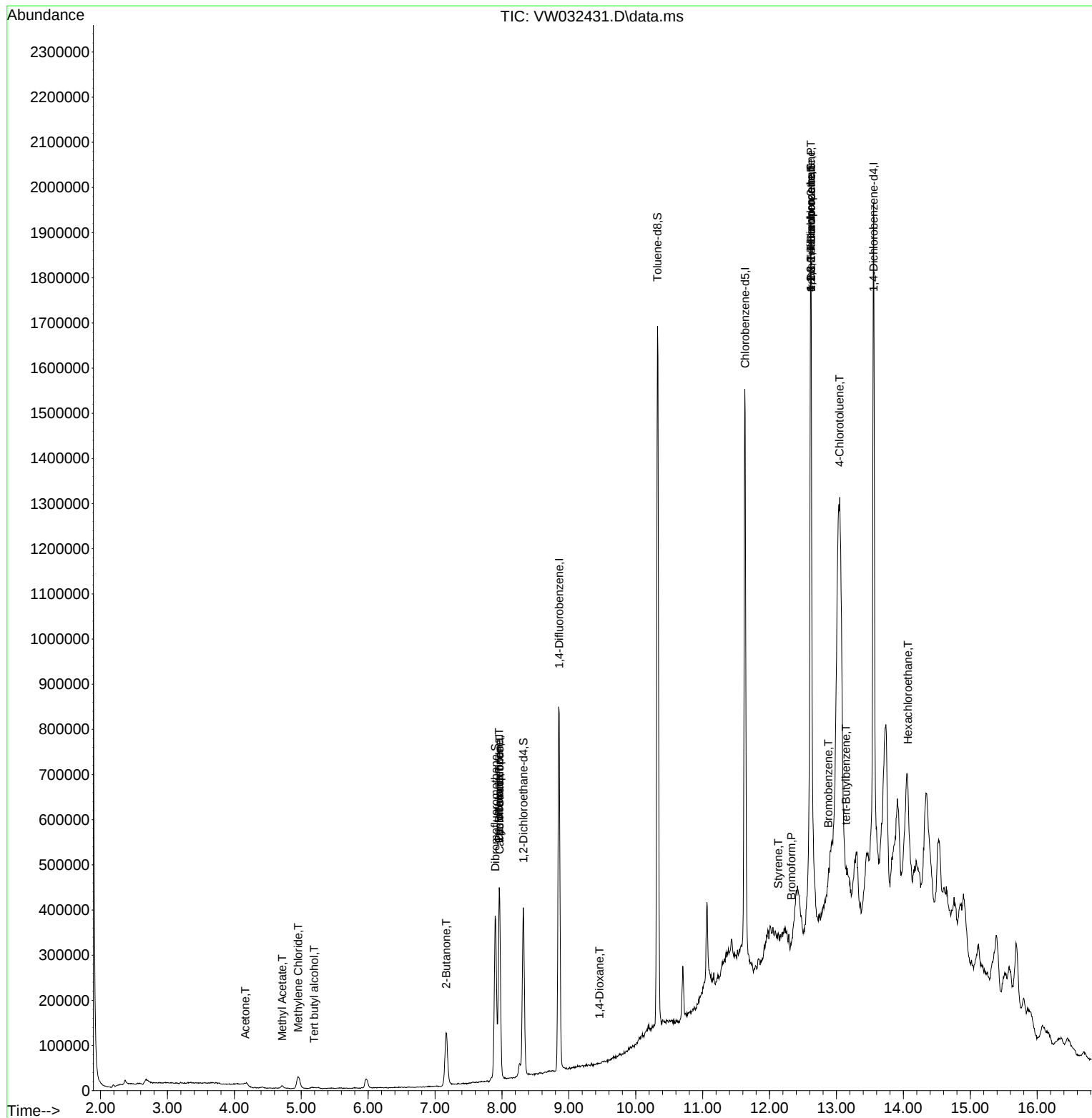
Internal Standards						
1) Pentafluorobenzene	7.959	168	300255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	702399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	672511	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	343410	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	295929	76.448	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 152.900%		
35) Dibromofluoromethane	7.898	113	273613	65.062	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 130.120%		
50) Toluene-d8	10.325	98	1051145	65.153	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 130.300%#		
62) 4-Bromofluorobenzene	12.617	95	540762	88.728	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 177.460%#		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.192	59	397	1.186	ug/l #	1
16) Acetone	4.161	43	4507	3.892	ug/l #	36
18) Methyl Acetate	4.716	43	12133	4.231	ug/l	99
20) Methylene Chloride	4.954	84	22678	5.476	ug/l	99
25) 2-Butanone	7.167	43	6438	3.773	ug/l #	76
31) Cyclohexane	7.959	56	6986	1.091	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	26211	4.230	ug/l #	53
38) Carbon Tetrachloride	7.965	117	33149	6.021	ug/l #	14
49) 1,4-Dioxane	9.459	88	183	4.499	ug/l #	46
70) Styrene	12.129	104	22300	1.438	ug/l #	27
71) Bromoform	12.324	173	5407	2.035	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	12.617	83	109416	18.280	ug/l #	27
76) 1,2,3-Trichloropropane	12.617	75	227498	48.314	ug/l #	1
77) Bromobenzene	12.879	156	30736	5.147	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	227498	110.661	ug/l #	17
82) 4-Chlorotoluene	13.044	91	189024	9.693	ug/l #	46
83) tert-Butylbenzene	13.141	119	28114	1.553	ug/l #	26
90) Hexachloroethane	14.068	117	21875	5.451	ug/l #	19

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

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Quant Time: Nov 12 03:50:56 2025
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Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

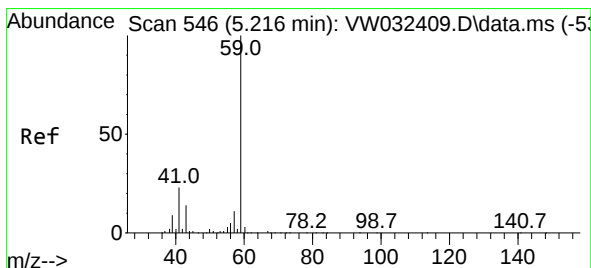
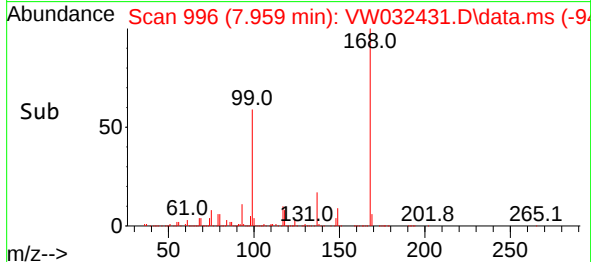
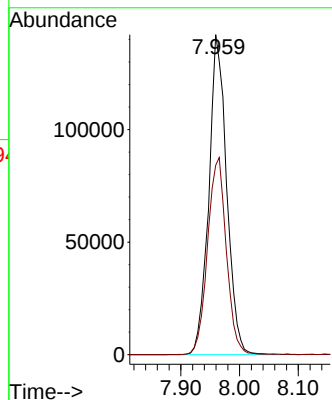
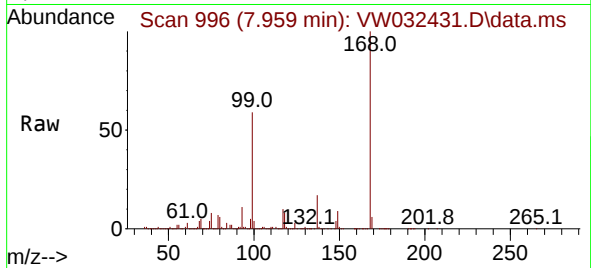




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

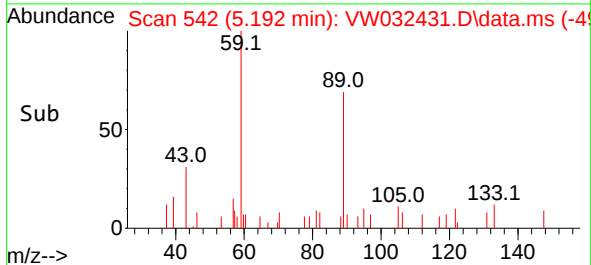
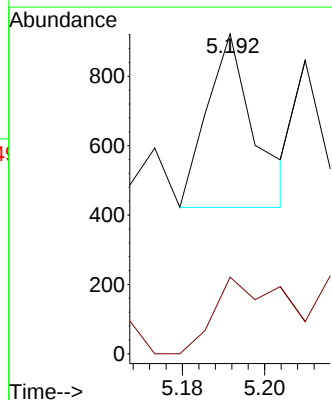
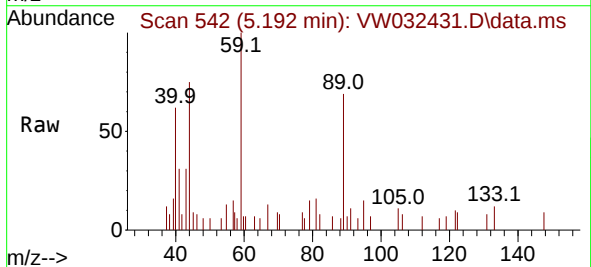
Instrument :
MSVOA_W
ClientSampleId :

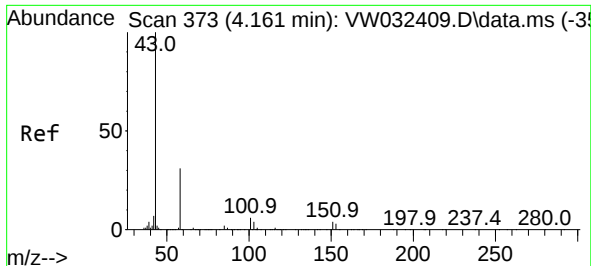
Tgt Ion:168 Resp: 300255
Ion Ratio Lower Upper
168 100
99 59.1 45.4 68.2



#11
Tert butyl alcohol
Concen: 1.186 ug/l
RT: 5.192 min Scan# 542
Delta R.T. -0.024 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Tgt Ion: 59 Resp: 397
Ion Ratio Lower Upper
59 100
57 67.3 8.6 12.8#

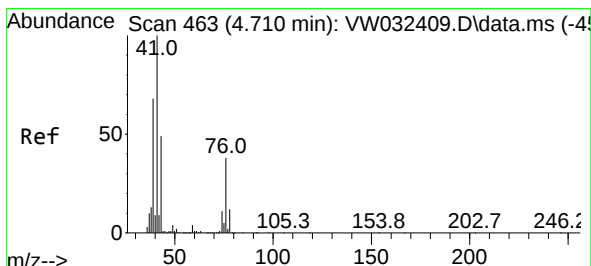
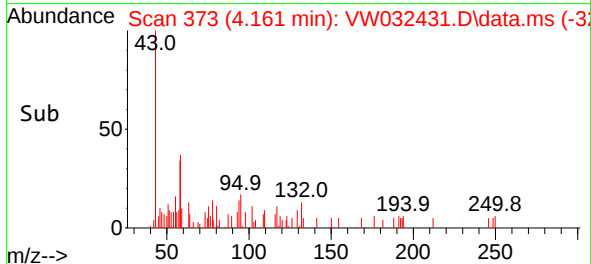
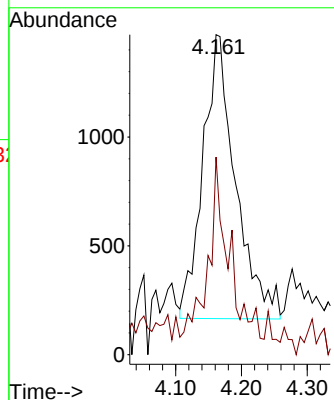
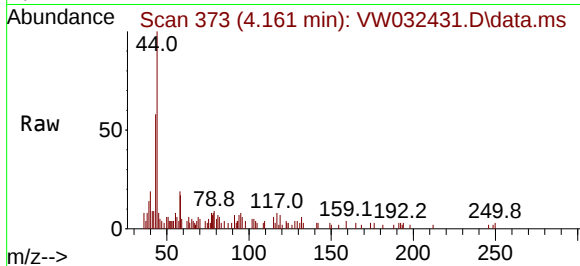




#16
Acetone
Concen: 3.892 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

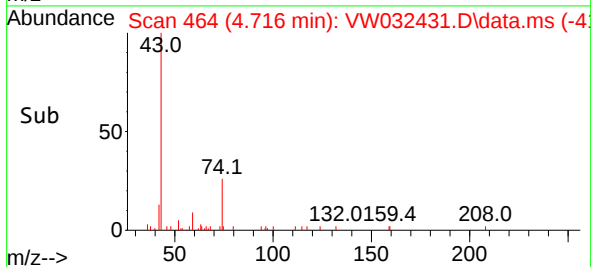
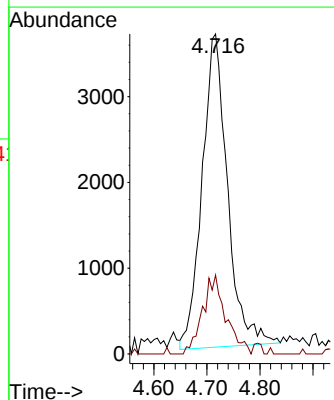
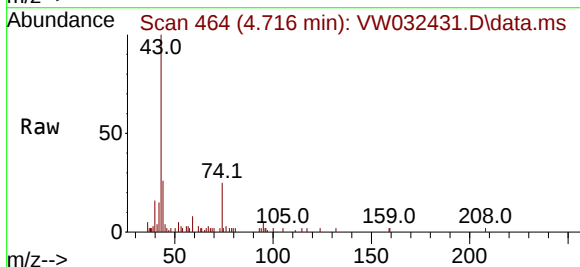
Instrument :
MSVOA_W
ClientSampleId :

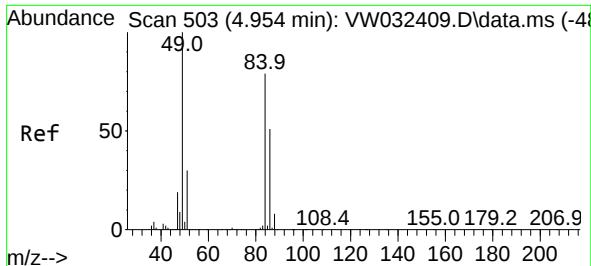
Tgt Ion: 43 Resp: 4507
Ion Ratio Lower Upper
43 100
58 66.1 24.8 37.2#



#18
Methyl Acetate
Concen: 4.231 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

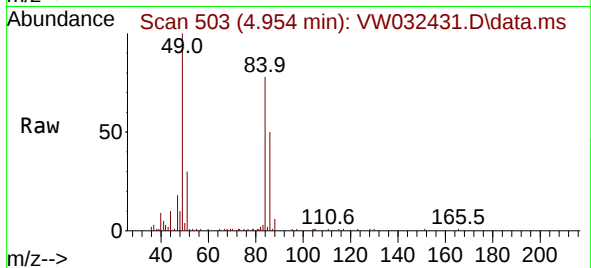
Tgt Ion: 43 Resp: 12133
Ion Ratio Lower Upper
43 100
74 23.1 18.9 28.3



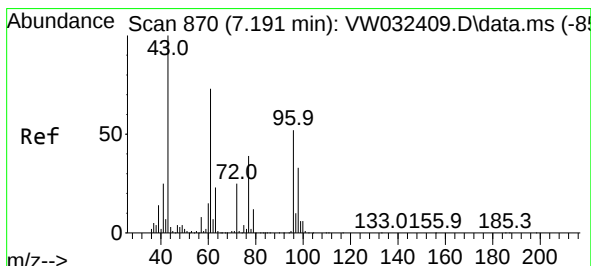
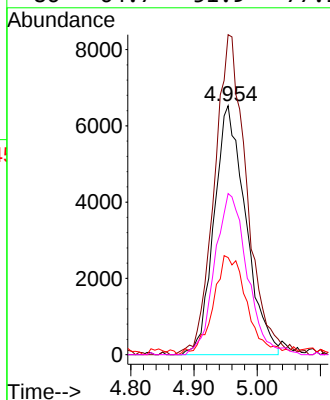
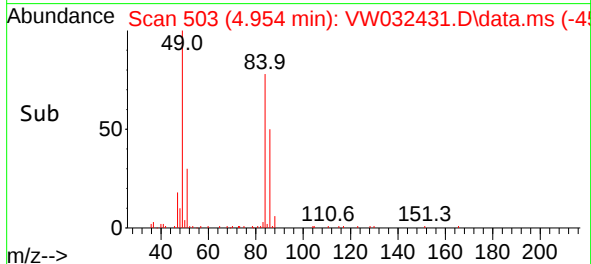


#20
Methylene Chloride
Concen: 5.476 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Instrument :
MSVOA_W
ClientSampleId :

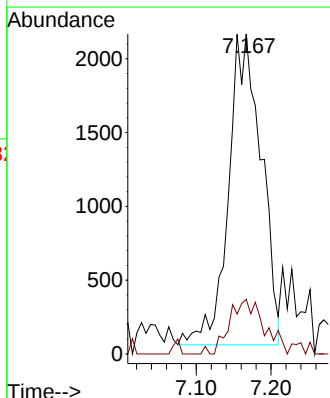
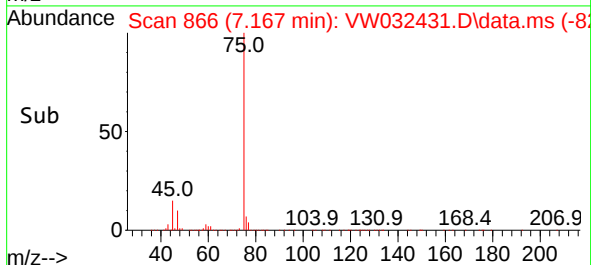
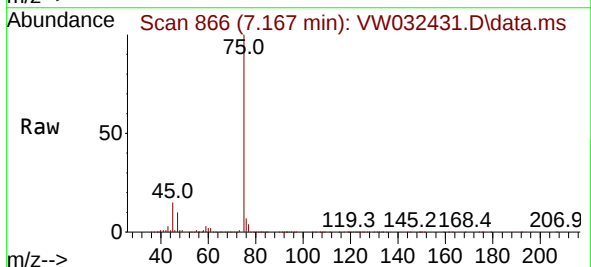


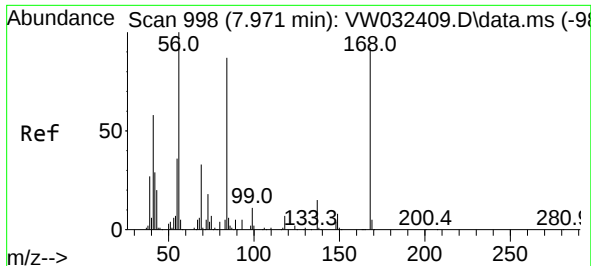
Tgt Ion:	84	Resp:	22678
Ion	Ratio	Lower	Upper
84	100		
49	127.7	101.5	152.3
51	39.0	30.6	46.0
86	64.7	51.9	77.9



#25
2-Butanone
Concen: 3.773 ug/l
RT: 7.167 min Scan# 866
Delta R.T. -0.024 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

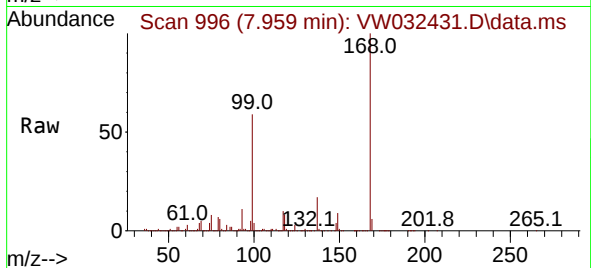
Tgt Ion:	43	Resp:	6438
Ion	Ratio	Lower	Upper
43	100		
72	12.8	20.0	30.0#



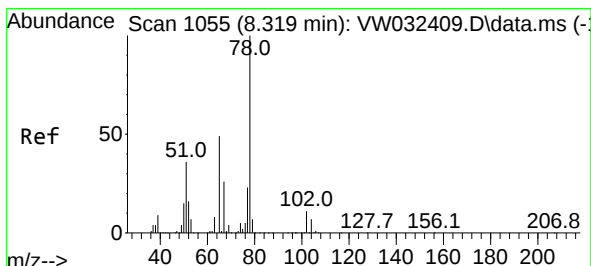
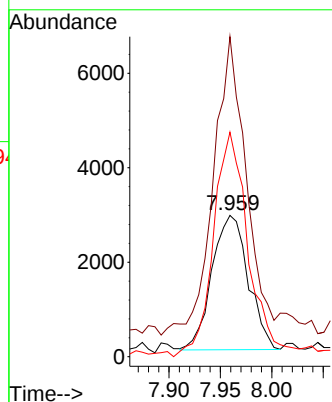
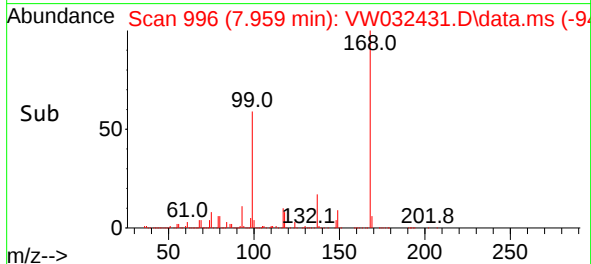


#31
Cyclohexane
Concen: 1.091 ug/l
RT: 7.959 min Scan# 998
Delta R.T. -0.012 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

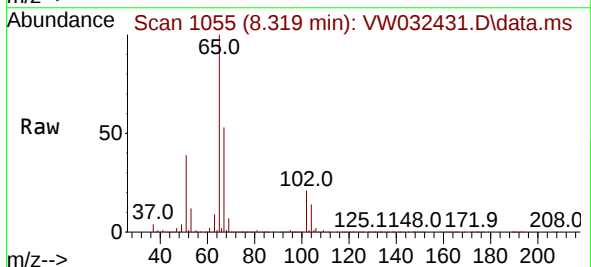
Instrument :
MSVOA_W
ClientSampleId :



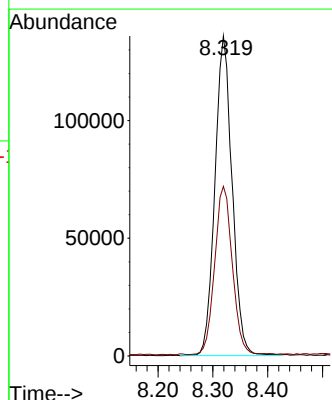
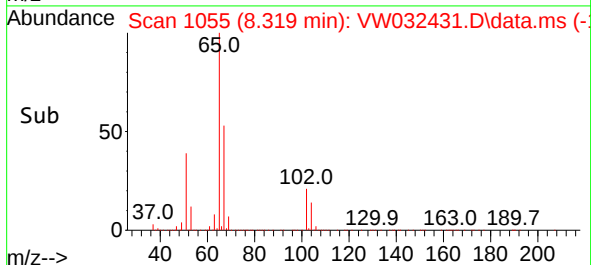
Tgt Ion: 56 Resp: 6986
Ion Ratio Lower Upper
56 100
69 214.4 26.5 39.7#
84 163.6 69.6 104.4#

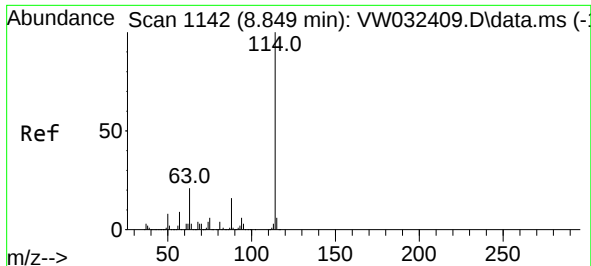


#33
1,2-Dichloroethane-d4
Concen: 76.448 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21



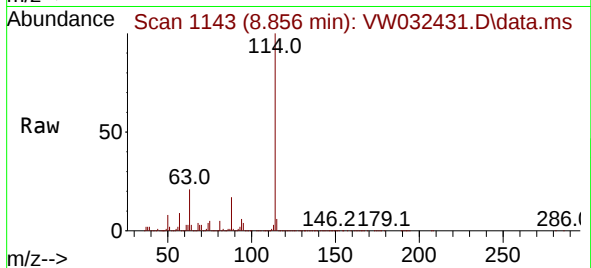
Tgt Ion: 65 Resp: 295929
Ion Ratio Lower Upper
65 100
67 54.2 0.0 106.8



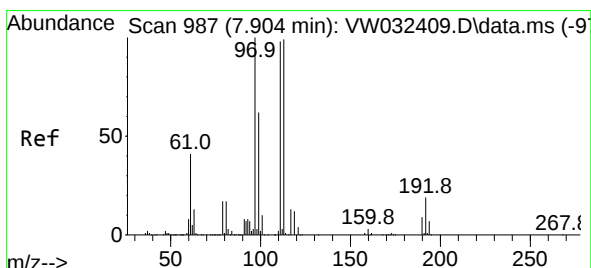
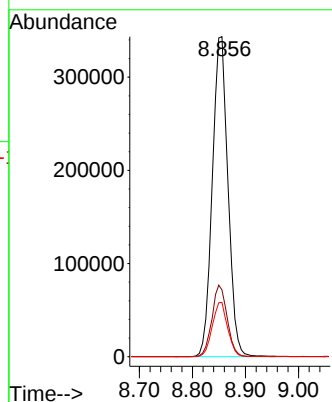
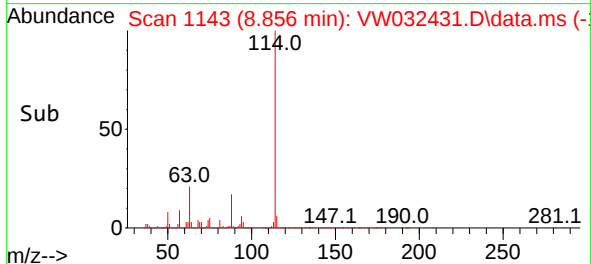


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.856 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Instrument :
MSVOA_W
ClientSampleId :

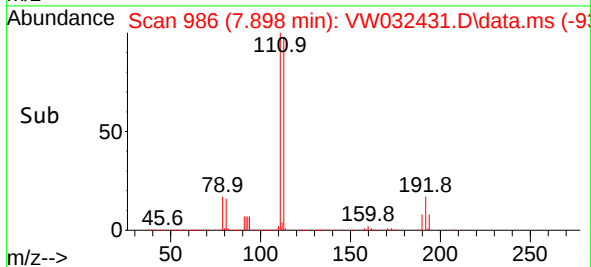
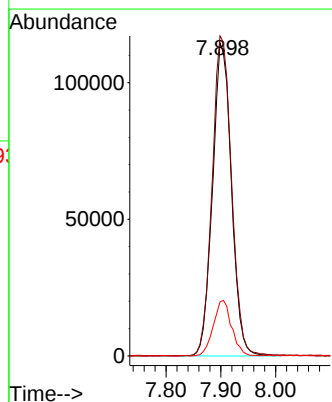
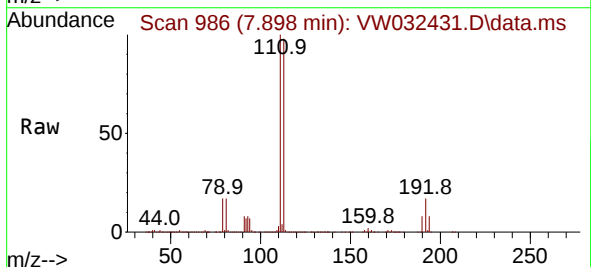


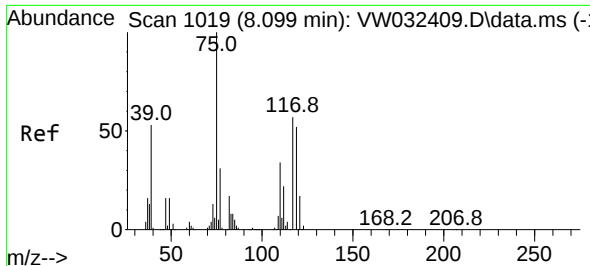
Tgt Ion:114 Resp: 702399
Ion Ratio Lower Upper
114 100
63 20.8 0.0 41.8
88 16.9 0.0 32.6



#35
Dibromofluoromethane
Concen: 65.062 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Tgt Ion:113 Resp: 273613
Ion Ratio Lower Upper
113 100
111 104.8 83.1 124.7
192 17.3 13.4 20.2

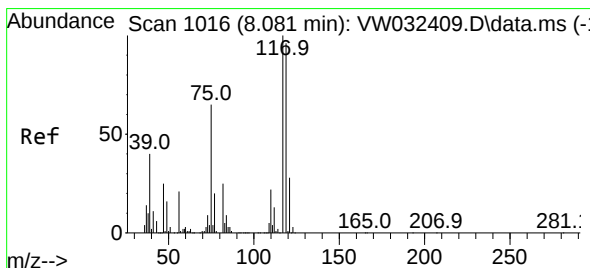
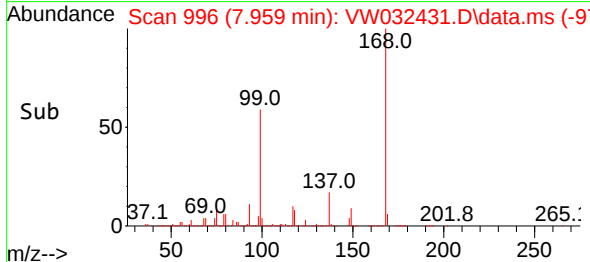
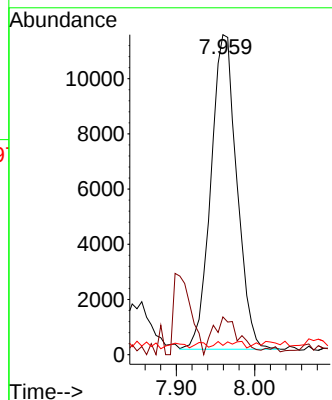
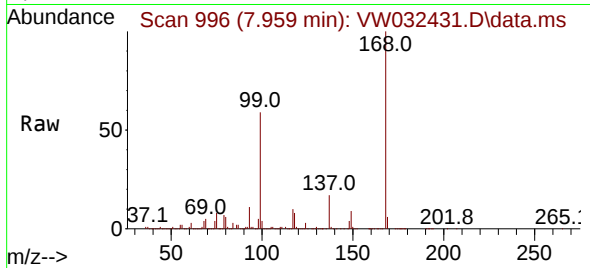




#36
 1,1-Dichloropropene
 Concen: 4.230 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032431.D
 Acq: 11 Nov 2025 15:21

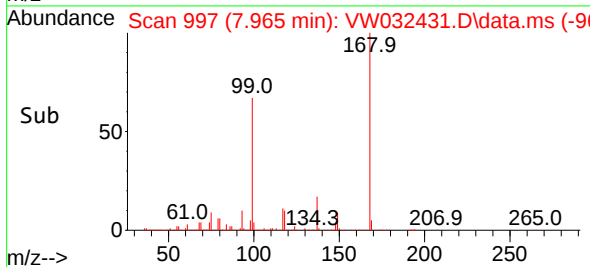
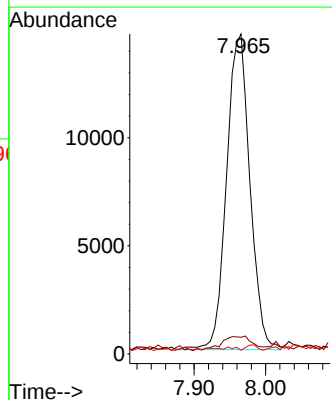
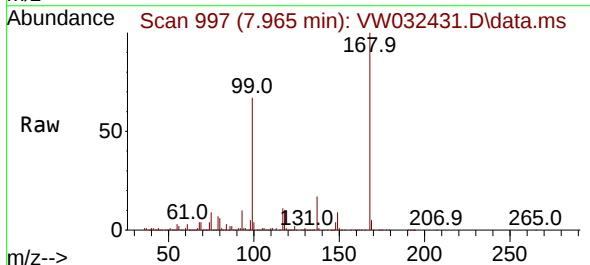
Instrument :
 MSVOA_W
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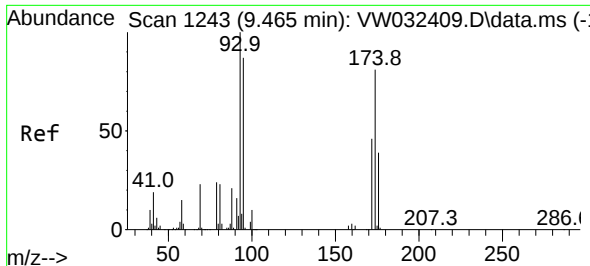
Tgt Ion: 75 Resp: 26211
 Ion Ratio Lower Upper
 75 100
 110 11.9 17.2 51.5#
 77 0.5 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 6.021 ug/l
 RT: 7.965 min Scan# 997
 Delta R.T. -0.116 min
 Lab File: VW032431.D
 Acq: 11 Nov 2025 15:21

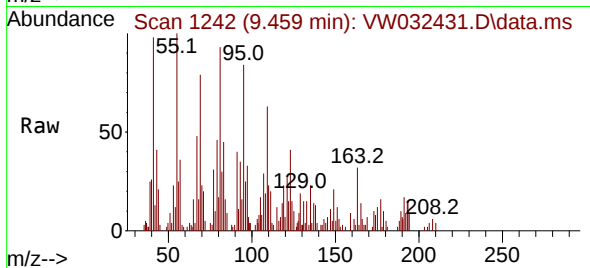
Tgt Ion: 117 Resp: 33149
 Ion Ratio Lower Upper
 117 100
 119 2.9 77.0 115.4#
 121 0.0 22.0 33.0#



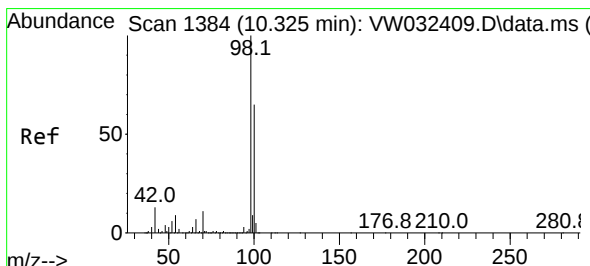
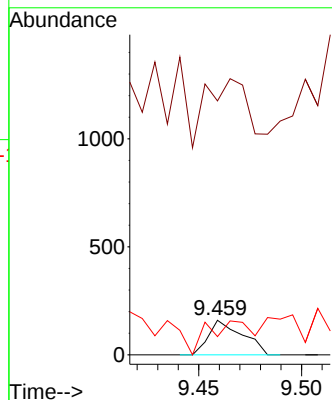
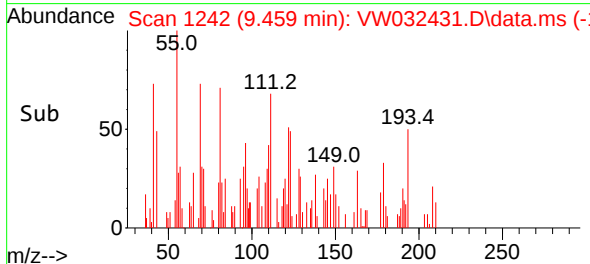


#49
1,4-Dioxane
Concen: 4.499 ug/l
RT: 9.459 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Instrument :
MSVOA_W
ClientSampleId :

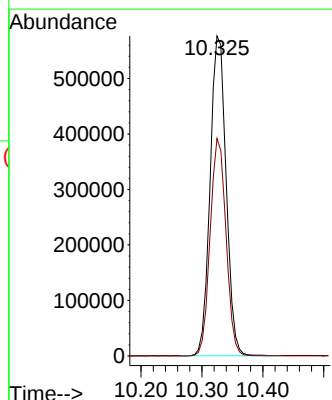
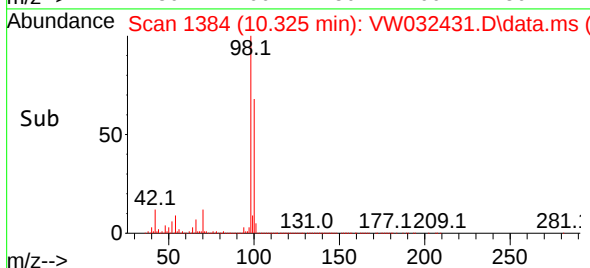
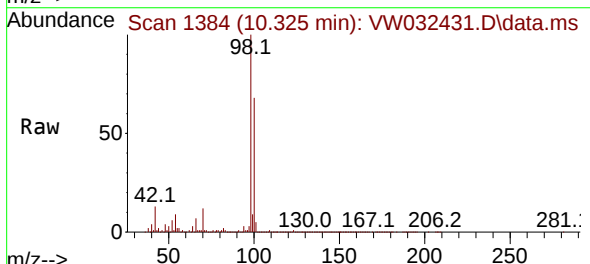


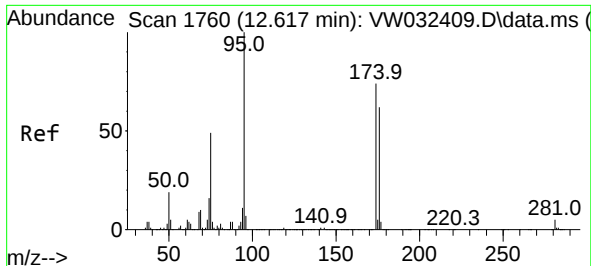
Tgt Ion: 88 Resp: 183
Ion Ratio Lower Upper
88 100
43 250.3 0.0 0.0#
58 125.7 63.0 94.4#



#50
Toluene-d8
Concen: 65.153 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Tgt Ion: 98 Resp: 1051145
Ion Ratio Lower Upper
98 100
100 67.4 53.3 79.9

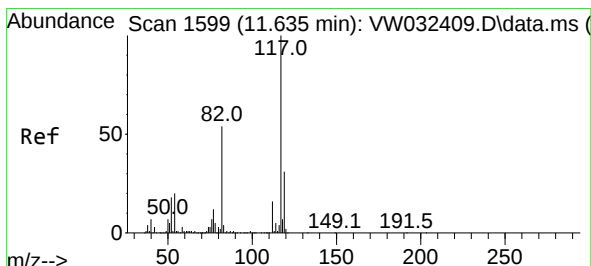
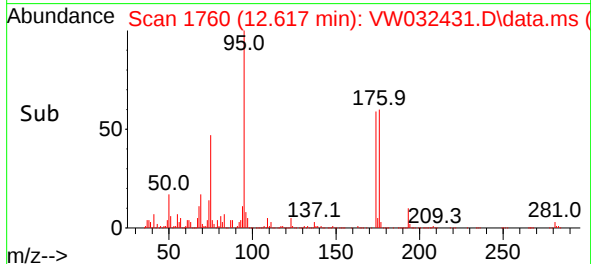
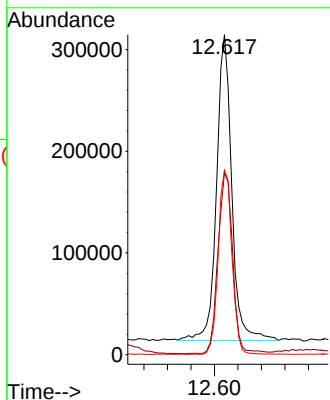
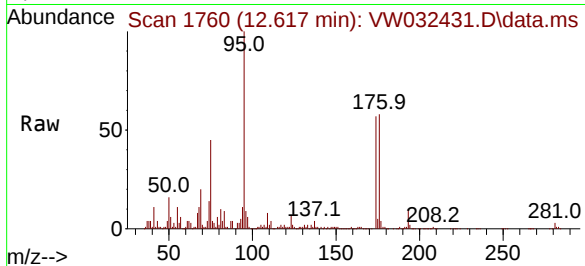




#62
4-Bromofluorobenzene
Concen: 88.728 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

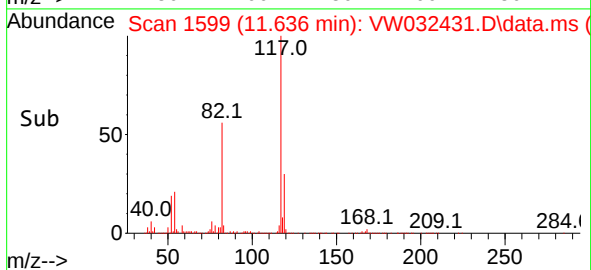
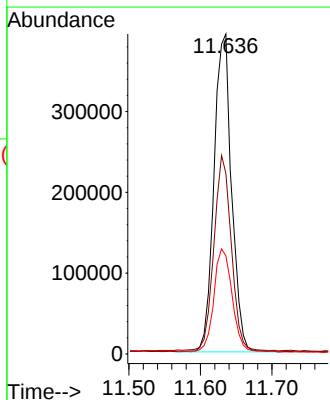
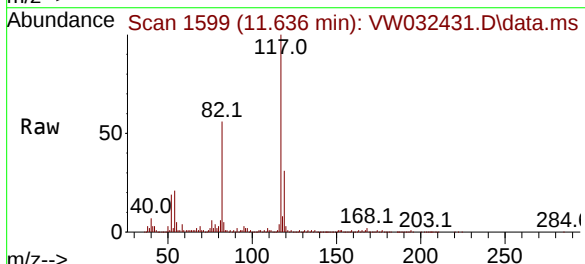
Instrument :
MSVOA_W
ClientSampleId :

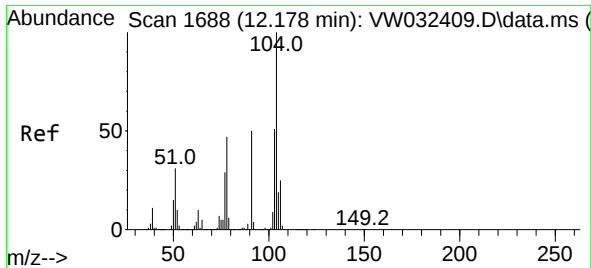
Tgt Ion: 95 Resp: 540762
Ion Ratio Lower Upper
95 100
174 57.1 0.0 135.4
176 54.5 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.636 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Tgt Ion: 117 Resp: 672511
Ion Ratio Lower Upper
117 100
82 55.8 43.0 64.4
119 30.2 25.0 37.6

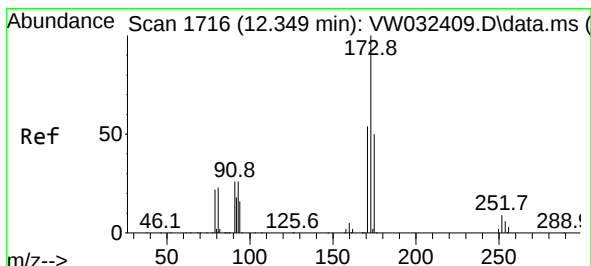
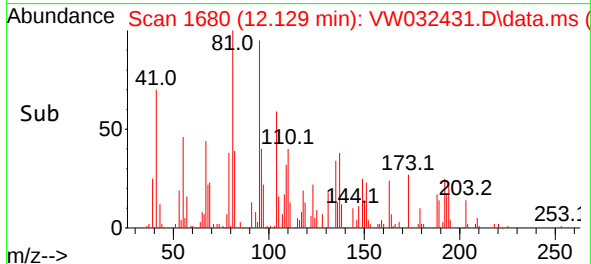
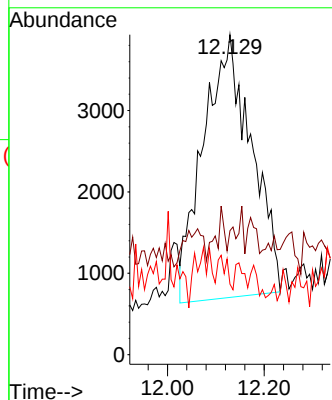
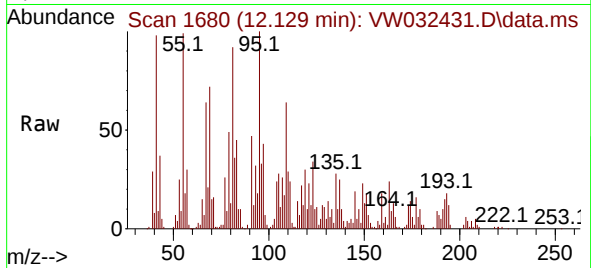




#70
Styrene
Concen: 1.438 ug/l
RT: 12.129 min Scan# 1
Delta R.T. -0.049 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

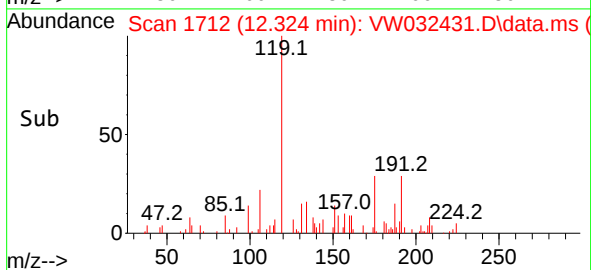
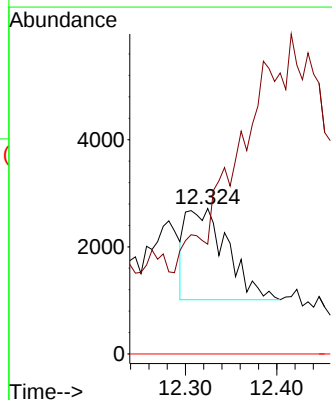
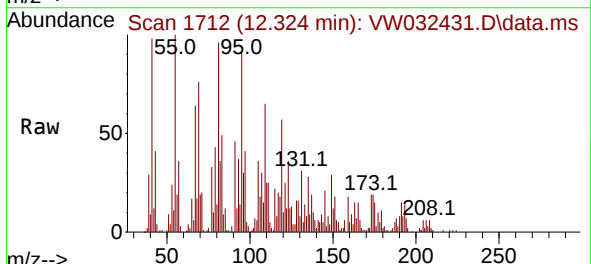
Instrument :
MSVOA_W
ClientSampleId :

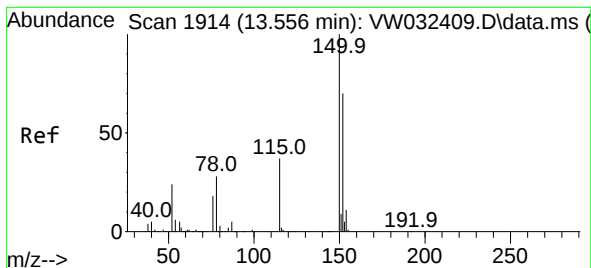
Tgt Ion:104 Resp: 22300
Ion Ratio Lower Upper
104 100
78 1.1 40.7 61.1#
103 1.7 43.9 65.9#



#71
Bromoform
Concen: 2.035 ug/l
RT: 12.324 min Scan# 1712
Delta R.T. -0.024 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Tgt Ion:173 Resp: 5407
Ion Ratio Lower Upper
173 100
175 20.3 25.1 75.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032431.D

Acq: 11 Nov 2025 15:21

Instrument :

MSVOA_W

ClientSampleId :

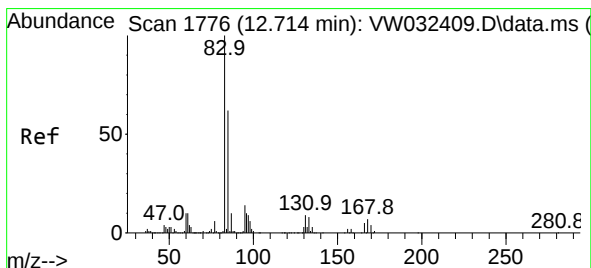
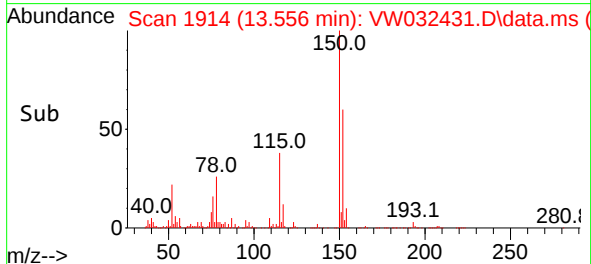
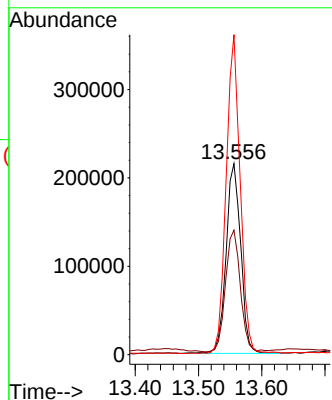
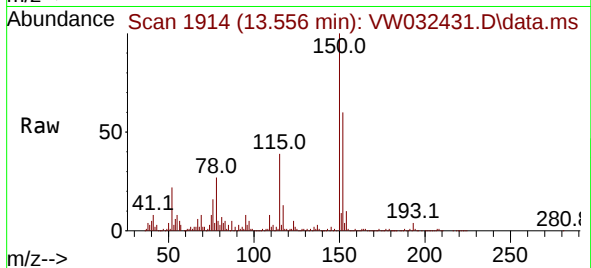
Tgt Ion:152 Resp: 343410

Ion Ratio Lower Upper

152 100

115 65.1 32.8 98.3

150 161.5 0.0 356.6



#75

1,1,2,2-Tetrachloroethane

Concen: 18.280 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.097 min

Lab File: VW032431.D

Acq: 11 Nov 2025 15:21

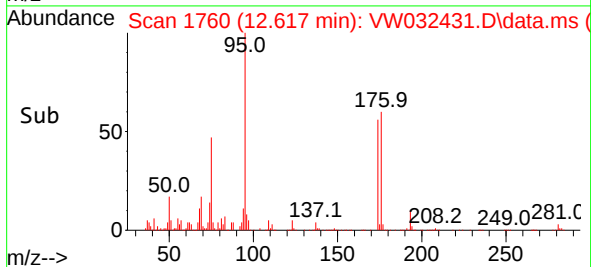
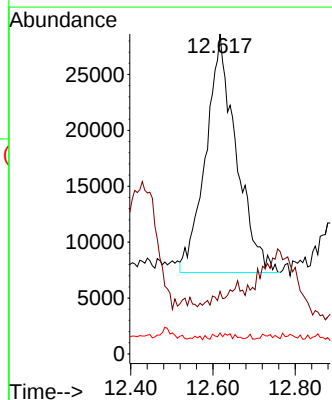
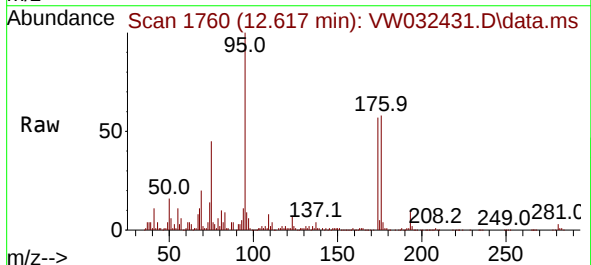
Tgt Ion: 83 Resp: 109416

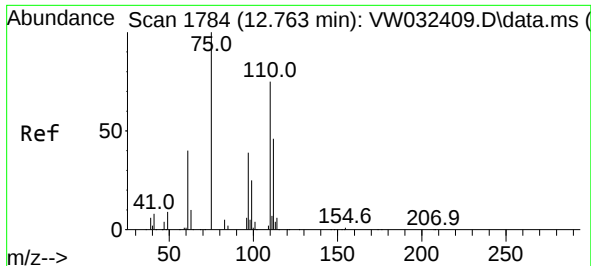
Ion Ratio Lower Upper

83 100

131 1.4 5.0 14.9#

85 0.6 31.6 94.8#

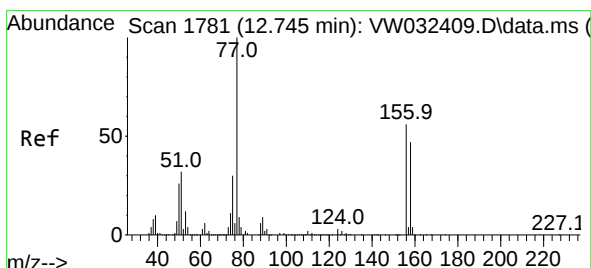
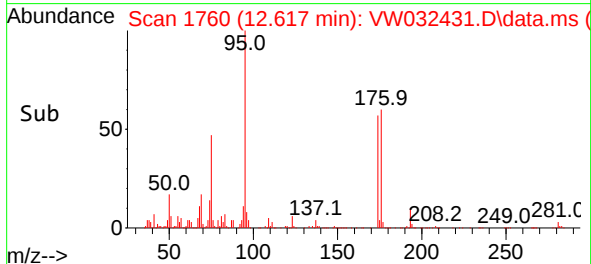
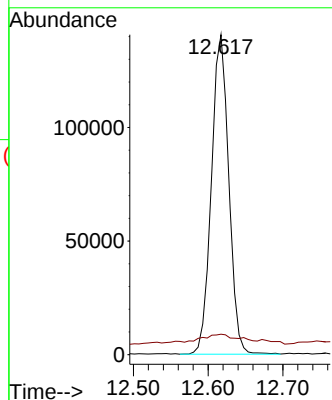
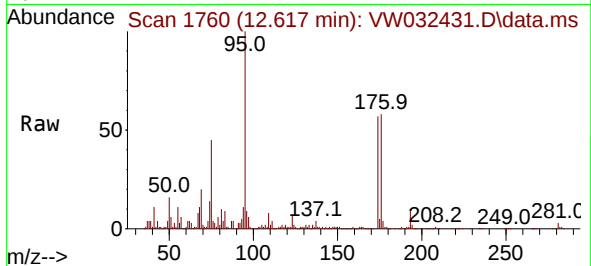




#76
1,2,3-Trichloropropane
Concen: 48.314 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.146 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

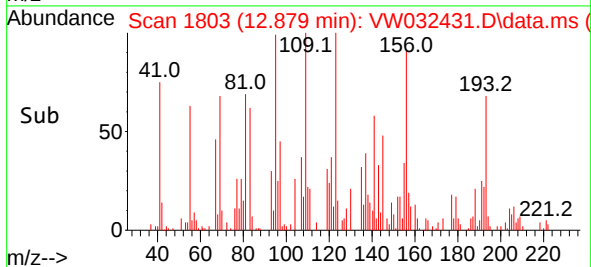
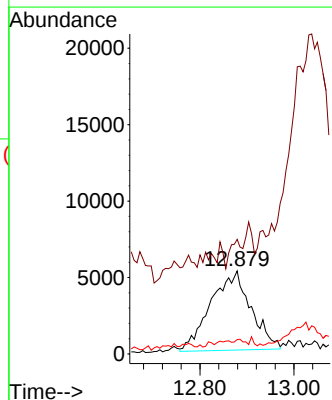
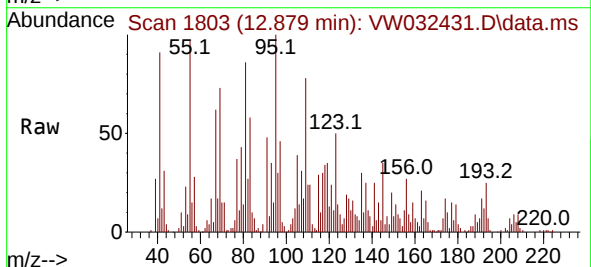
Instrument :
MSVOA_W
ClientSampleId :

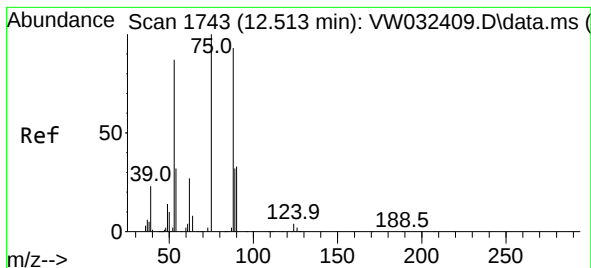
Tgt Ion: 75 Resp: 227498
Ion Ratio Lower Upper
75 100
77 5.2 151.6 454.8#



#77
Bromobenzene
Concen: 5.147 ug/l
RT: 12.879 min Scan# 1803
Delta R.T. 0.134 min
Lab File: VW032431.D
Acq: 11 Nov 2025 15:21

Tgt Ion:156 Resp: 30736
Ion Ratio Lower Upper
156 100
77 10.5 108.0 324.0#
158 1.3 45.1 135.5#

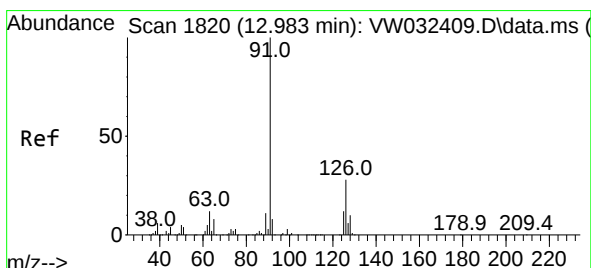
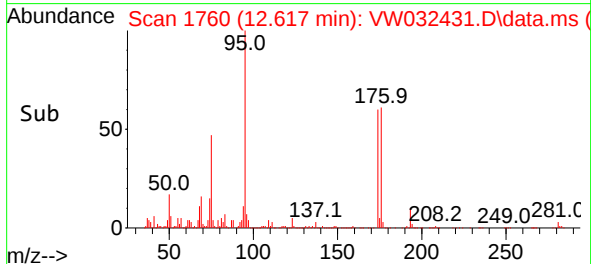
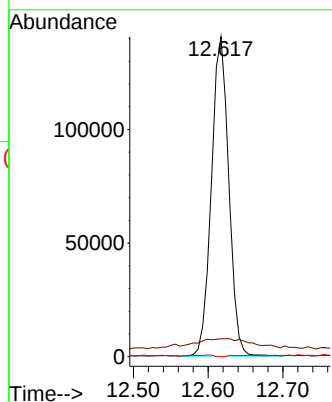
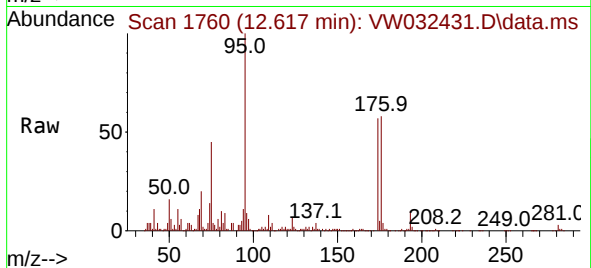




#81
 trans-1,4-Dichloro-2-butene
 Concen: 110.661 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. 0.104 min
 Lab File: VW032431.D
 Acq: 11 Nov 2025 15:21

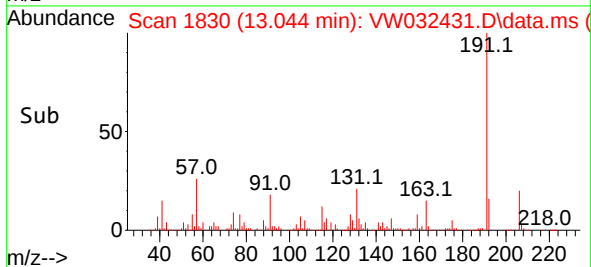
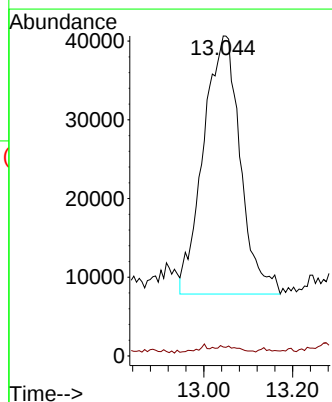
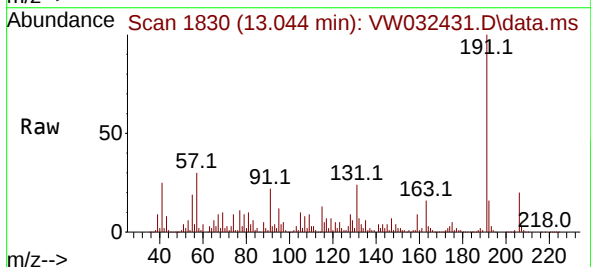
Instrument :
 MSVOA_W
 ClientSampleId :

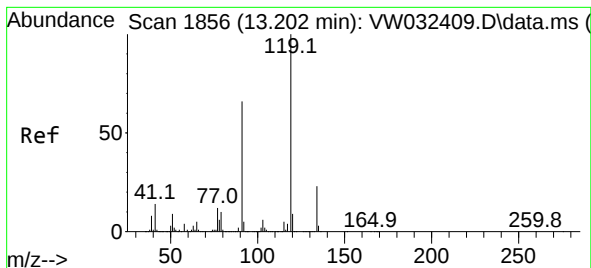
Tgt Ion: 75 Resp: 227498
 Ion Ratio Lower Upper
 75 100
 53 8.8 77.8 116.8#
 89 0.3 35.6 53.4#



#82
 4-Chlorotoluene
 Concen: 9.693 ug/l
 RT: 13.044 min Scan# 1830
 Delta R.T. 0.061 min
 Lab File: VW032431.D
 Acq: 11 Nov 2025 15:21

Tgt Ion: 91 Resp: 189024
 Ion Ratio Lower Upper
 91 100
 126 1.1 15.5 46.5#





#83

tert-Butylbenzene

Concen: 1.553 ug/l

RT: 13.141 min Scan# 119

Delta R.T. -0.061 min

Lab File: VW032431.D

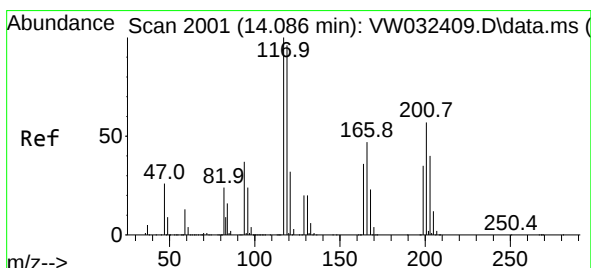
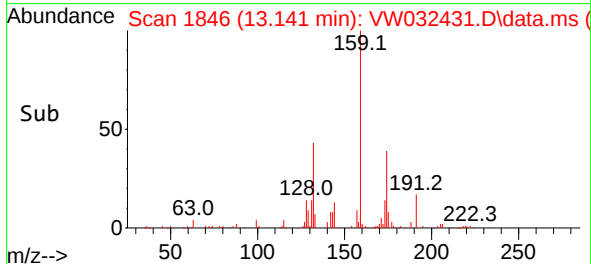
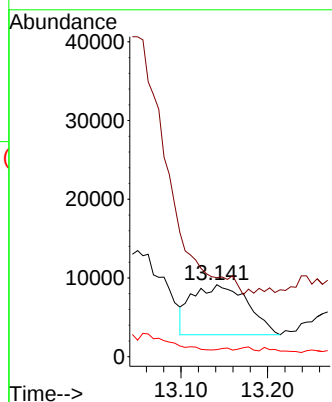
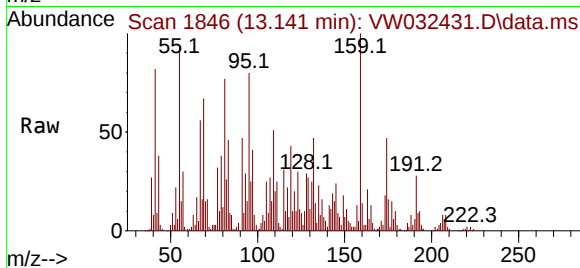
Acq: 11 Nov 2025 15:21

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	119	Resp:	28114
Ion Ratio	Lower	Upper	
119	100		
91	0.0	33.3	99.9#
134	0.7	12.2	36.4#



#90

Hexachloroethane

Concen: 5.451 ug/l

RT: 14.068 min Scan# 1998

Delta R.T. -0.018 min

Lab File: VW032431.D

Acq: 11 Nov 2025 15:21

Tgt Ion:	117	Resp:	21875
Ion Ratio	Lower	Upper	
117	100		
201	0.9	32.0	96.0#

