

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112625\
 Data File : VW032556.D
 Acq On : 26 Nov 2025 19:45
 Operator : SY/MD
 Sample : Q3733-01
 Misc : 6.29g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 27 00:32:53 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	195755	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	470502	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	508944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	219244	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	166456	65.956	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	131.920%
35) Dibromofluoromethane	7.904	113	146396	51.969	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	103.940%
50) Toluene-d8	10.331	98	480474	44.460	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	88.920%
62) 4-Bromofluorobenzene	12.617	95	226643	55.516	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	111.040%

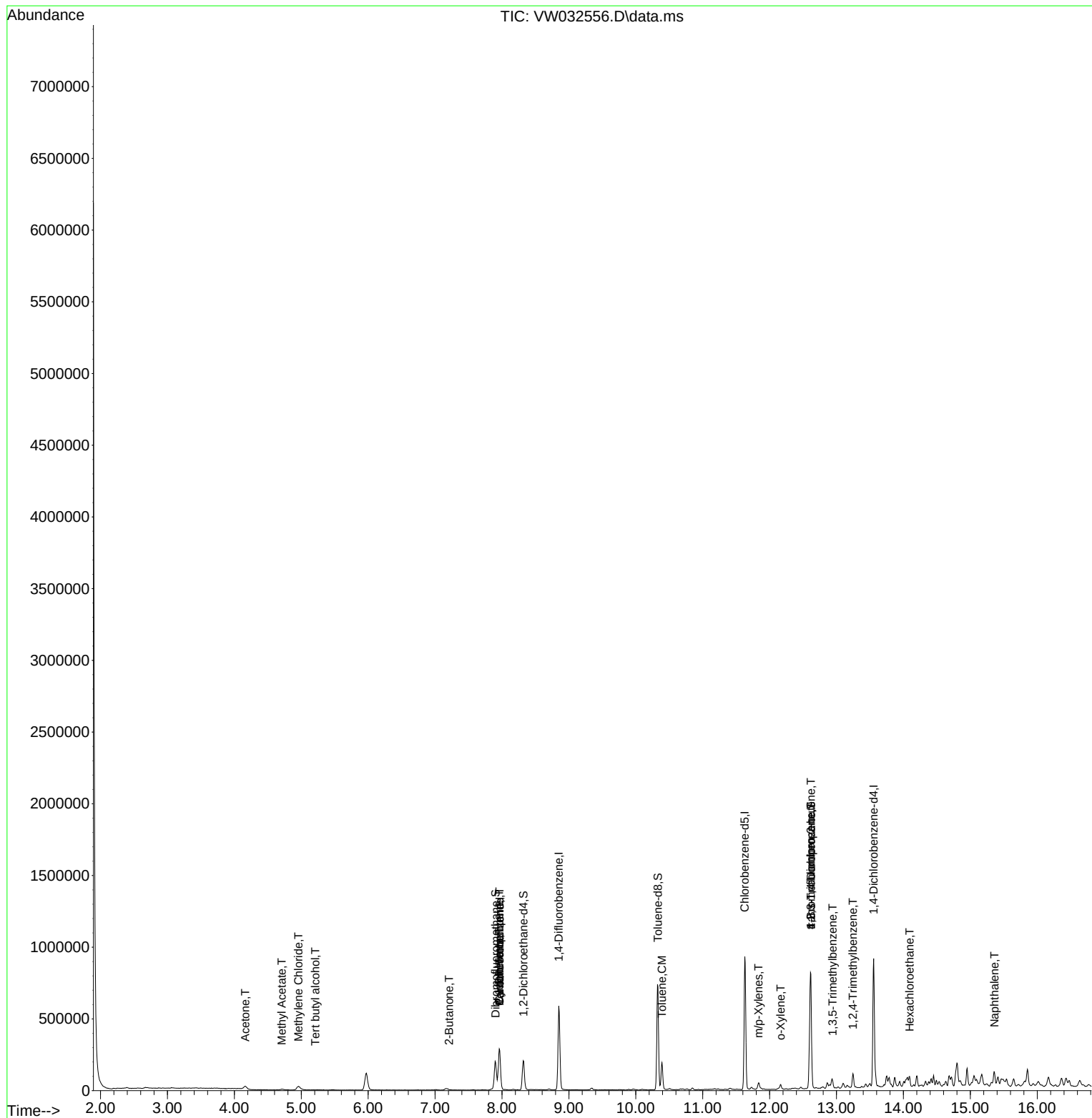
Target Compounds						Qvalue
11) Tert butyl alcohol	5.210	59	863	3.955	ug/l #	72
16) Acetone	4.161	43	29956	39.675	ug/l	99
18) Methyl Acetate	4.710	43	11568	6.187	ug/l	94
20) Methylene Chloride	4.960	84	20356	7.539	ug/l	94
25) 2-Butanone	7.209	43	2867	2.577	ug/l #	73
31) Cyclohexane	7.959	56	7613	1.823	ug/l #	21
36) 1,1-Dichloropropene	7.959	75	19166	4.618	ug/l #	50
38) Carbon Tetrachloride	7.965	117	22366	6.065	ug/l #	16
52) Toluene	10.392	92	79630	9.645	ug/l	98
68) m/p-Xylenes	11.837	106	11800	1.656	ug/l	99
69) o-Xylene	12.166	106	8485	1.243	ug/l	99
76) 1,2,3-Trichloropropane	12.617	75	116643	38.801	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.940	105	20959	1.578	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.617	75	116643	88.871	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.245	105	55707	4.123	ug/l	97
90) Hexachloroethane	14.092	117	3901	1.523	ug/l #	20
95) Naphthalene	15.360	128	85556	8.125	ug/l	99

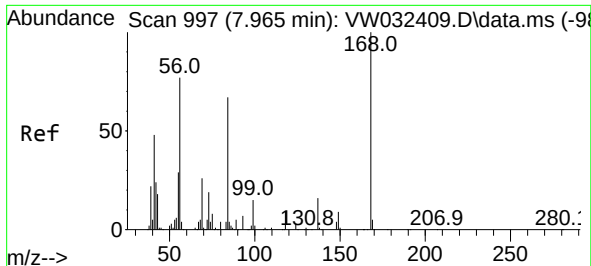
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112625\
Data File : VW032556.D
Acq On : 26 Nov 2025 19:45
Operator : SY/MD
Sample : Q3733-01
Misc : 6.29g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Nov 27 00:32:53 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

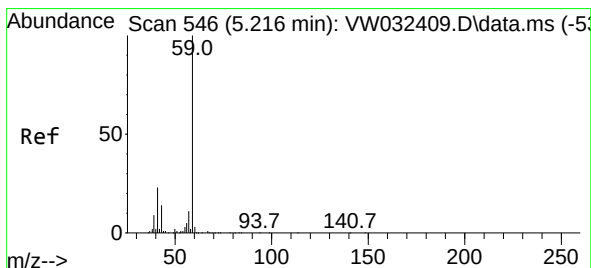
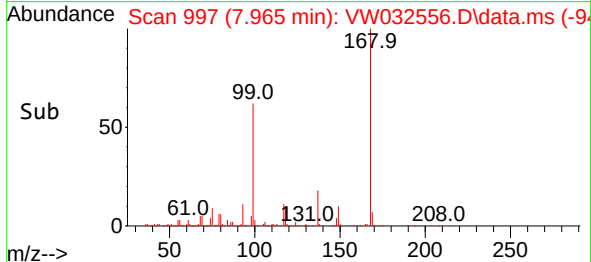
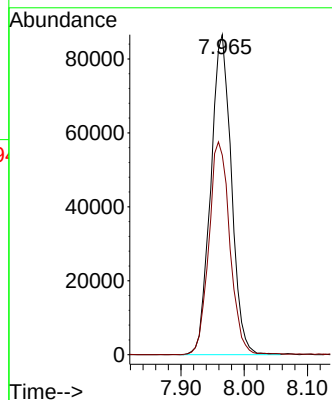
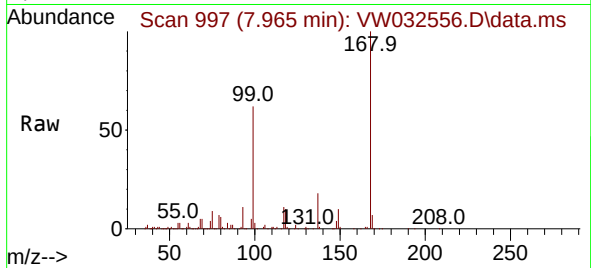




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

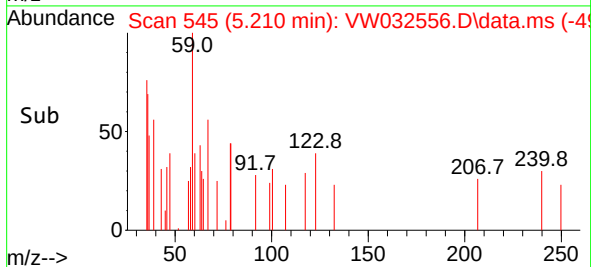
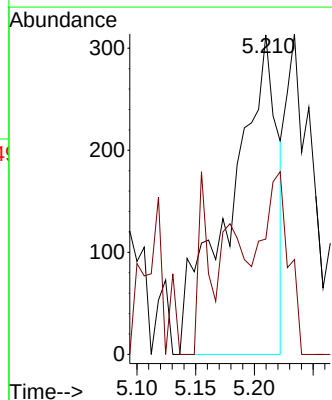
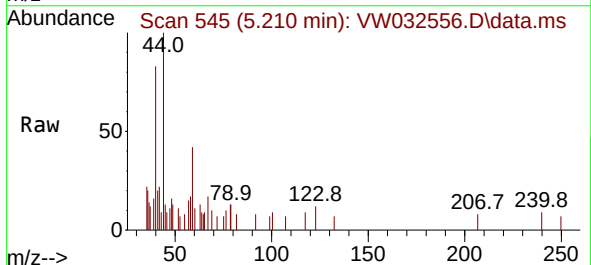
Instrument :
MSVOA_W
ClientSampleId :

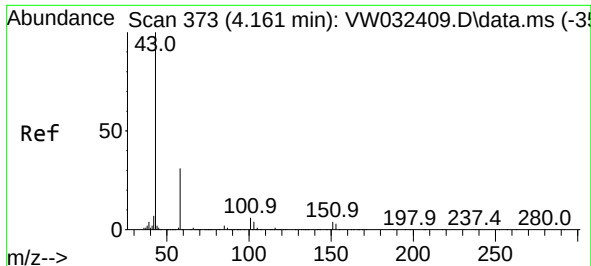
Tgt Ion:168 Resp: 195755
Ion Ratio Lower Upper
168 100
99 62.3 45.4 68.2



#11
Tert butyl alcohol
Concen: 3.955 ug/l
RT: 5.210 min Scan# 545
Delta R.T. -0.006 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Tgt Ion: 59 Resp: 863
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

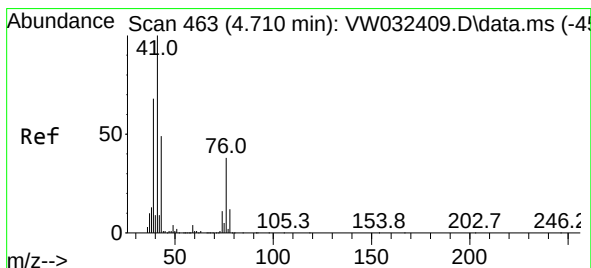
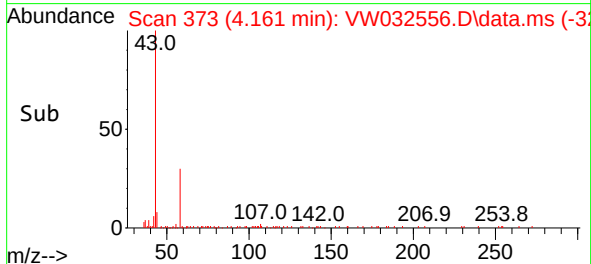
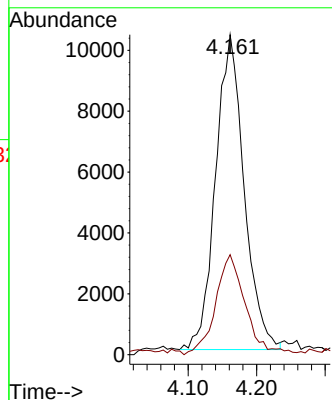
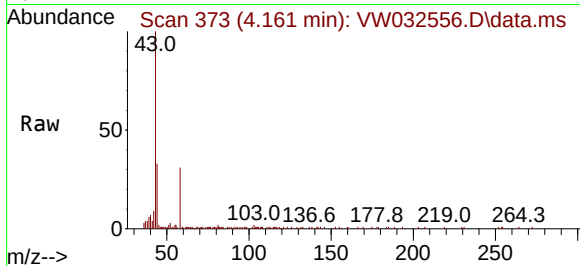




#16
Acetone
Concen: 39.675 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

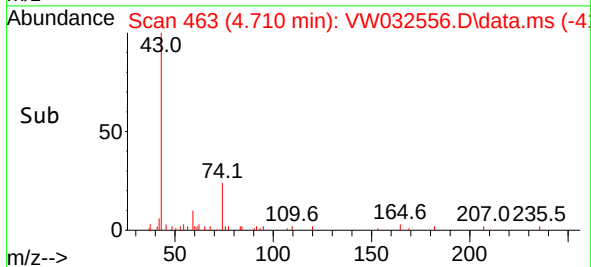
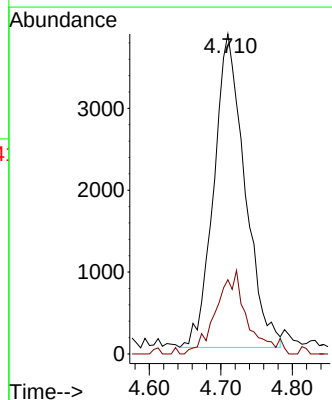
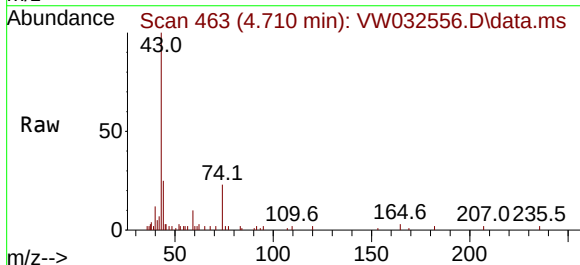
Instrument :
MSVOA_W
ClientSampleId :

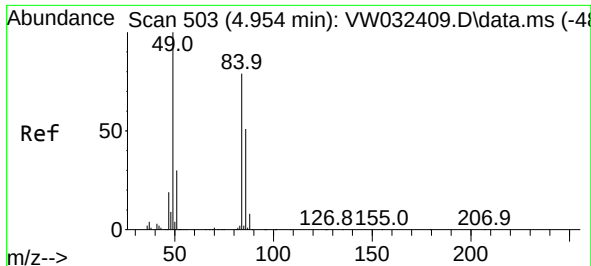
Tgt Ion: 43 Resp: 29956
Ion Ratio Lower Upper
43 100
58 30.6 24.8 37.2



#18
Methyl Acetate
Concen: 6.187 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Tgt Ion: 43 Resp: 11568
Ion Ratio Lower Upper
43 100
74 26.4 18.9 28.3

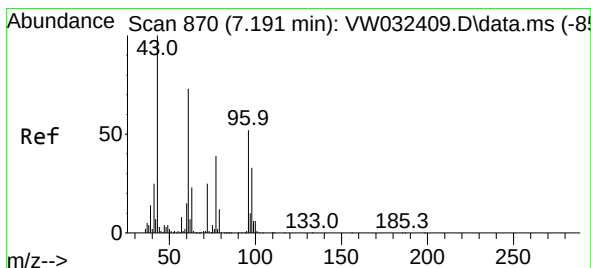
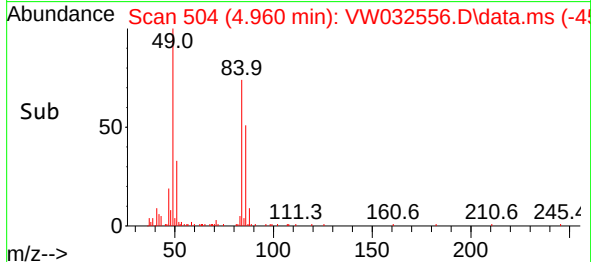
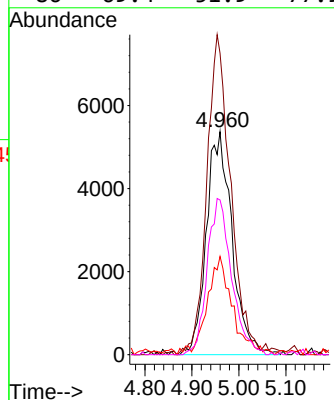
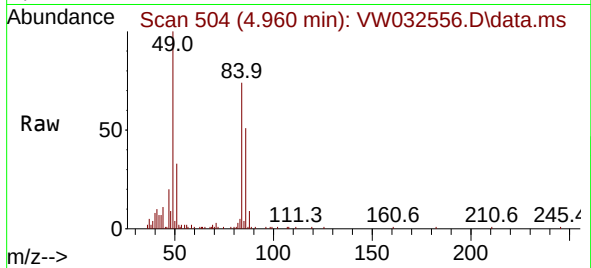




#20
Methylene Chloride
Concen: 7.539 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

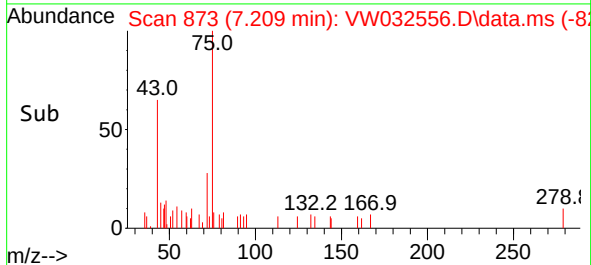
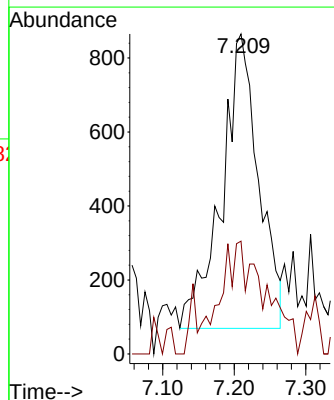
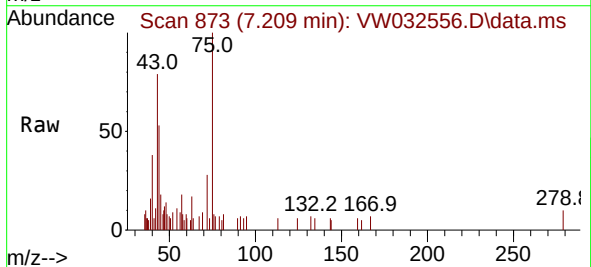
Instrument :
MSVOA_W
ClientSampleId :

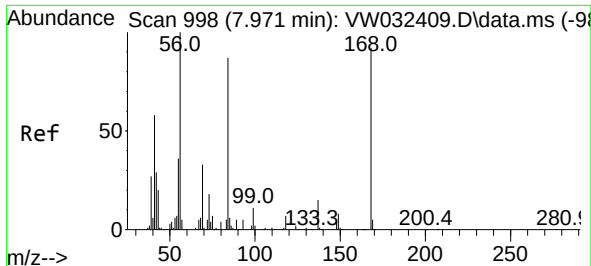
Tgt Ion: 84 Resp: 20356
Ion Ratio Lower Upper
84 100
49 134.1 101.5 152.3
51 42.3 30.6 46.0
86 69.4 51.9 77.9



#25
2-Butanone
Concen: 2.577 ug/l
RT: 7.209 min Scan# 873
Delta R.T. 0.018 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

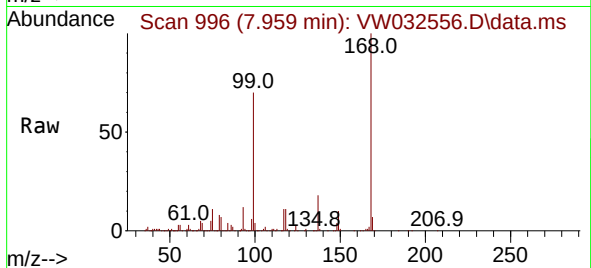
Tgt Ion: 43 Resp: 2867
Ion Ratio Lower Upper
43 100
72 38.3 20.0 30.0#



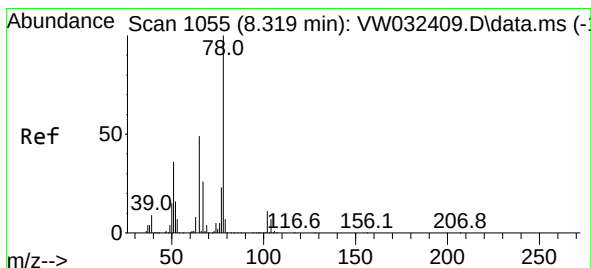
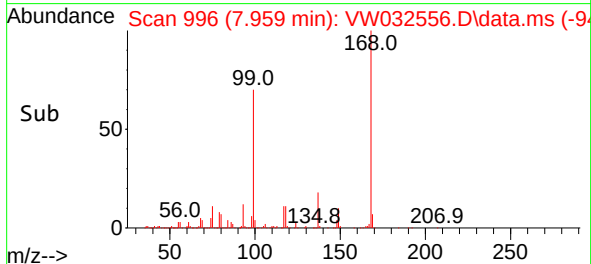
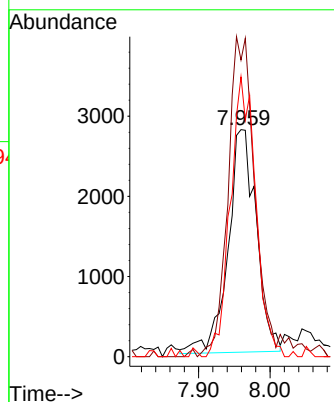


#31
Cyclohexane
Concen: 1.823 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Instrument :
MSVOA_W
ClientSampleId :

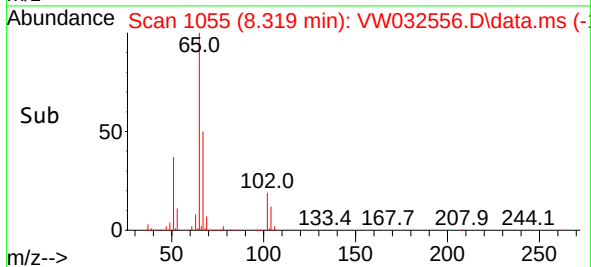
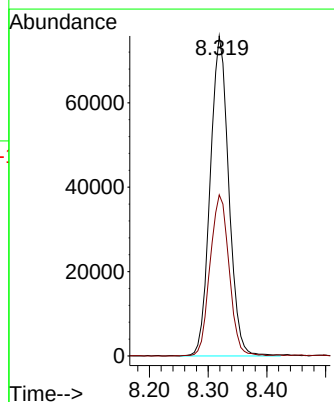
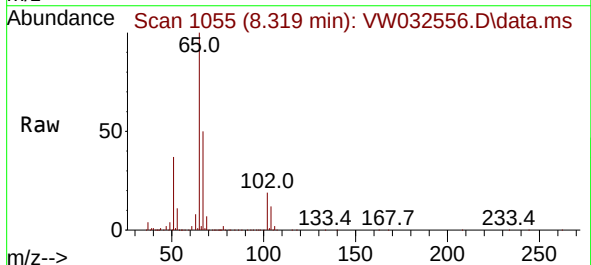


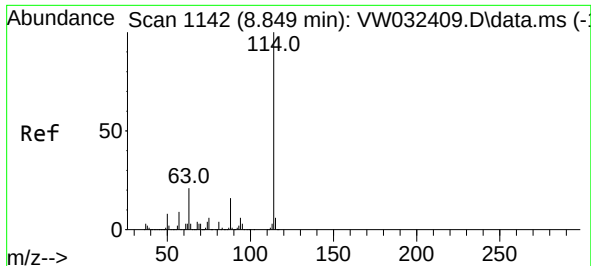
Tgt Ion: 56 Resp: 7613
Ion Ratio Lower Upper
56 100
69 134.8 26.5 39.7#
84 124.3 69.6 104.4#



#33
1,2-Dichloroethane-d4
Concen: 65.956 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

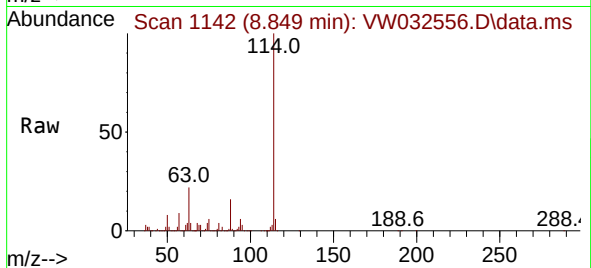
Tgt Ion: 65 Resp: 166456
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.8



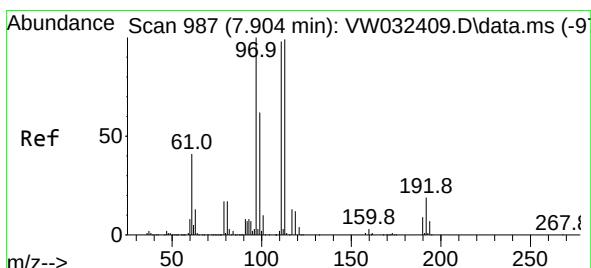
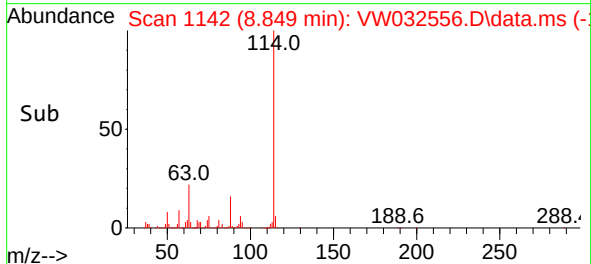
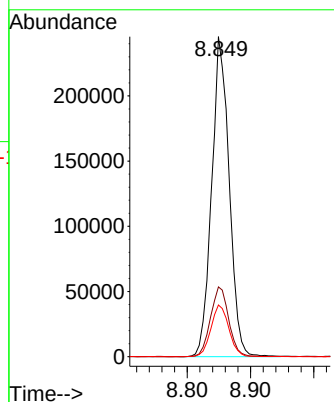


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Instrument :
MSVOA_W
ClientSampleId :

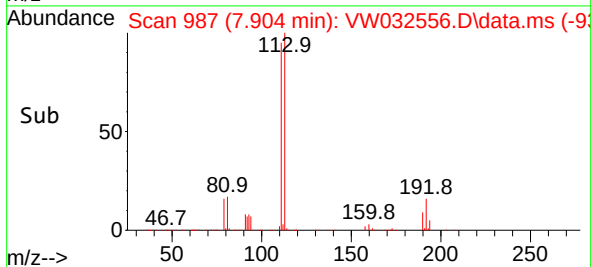
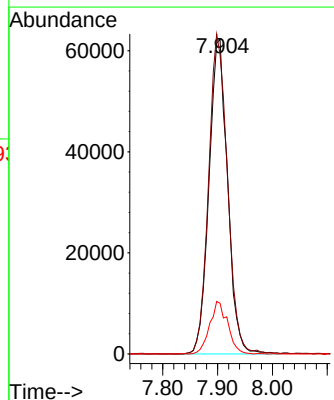
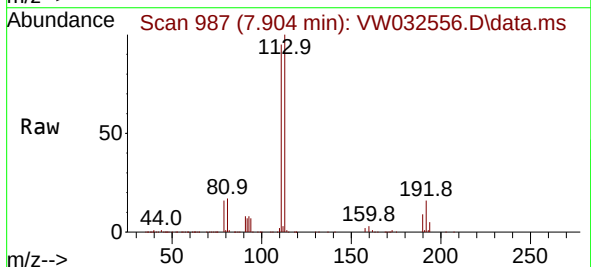


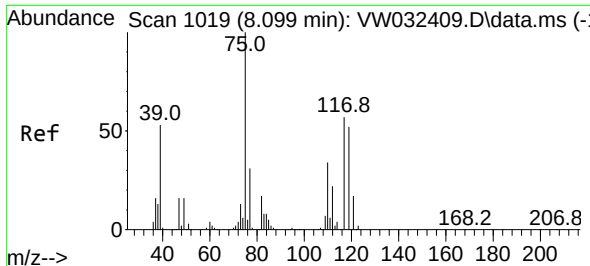
Tgt Ion:114 Resp: 470502
Ion Ratio Lower Upper
114 100
63 21.8 0.0 41.8
88 16.1 0.0 32.6



#35
Dibromofluoromethane
Concen: 51.969 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

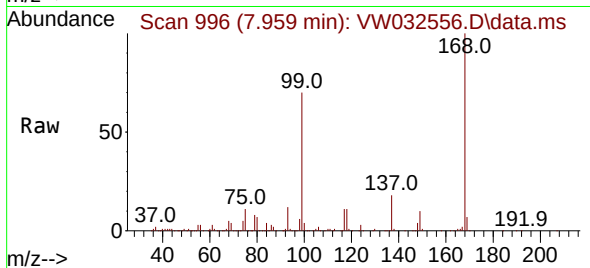
Tgt Ion:113 Resp: 146396
Ion Ratio Lower Upper
113 100
111 103.4 83.1 124.7
192 16.1 13.4 20.2



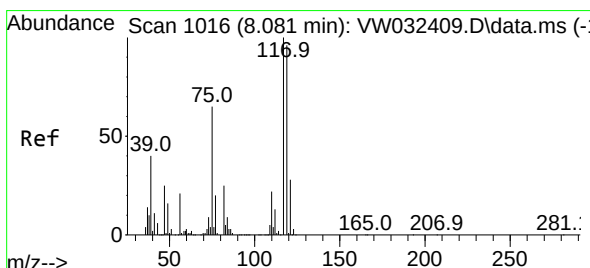
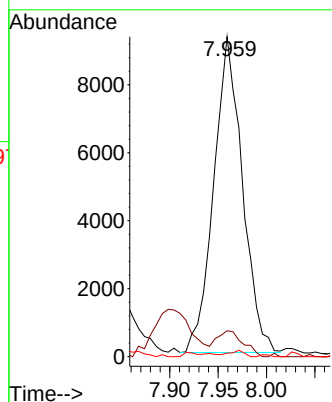
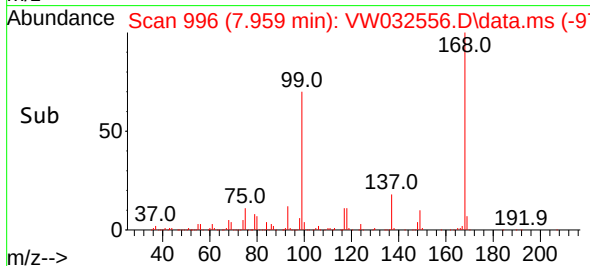


#36
 1,1-Dichloropropene
 Concen: 4.618 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032556.D
 Acq: 26 Nov 2025 19:45

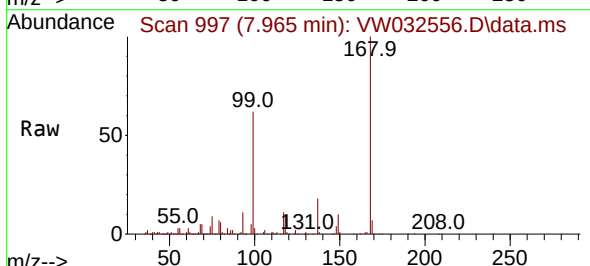
Instrument :
 MSVOA_W
 ClientSampleId :



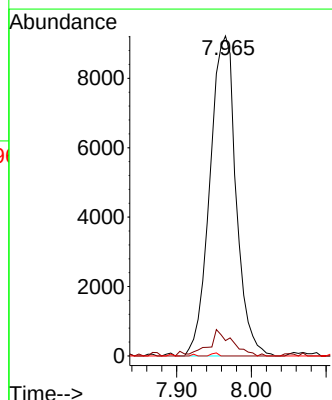
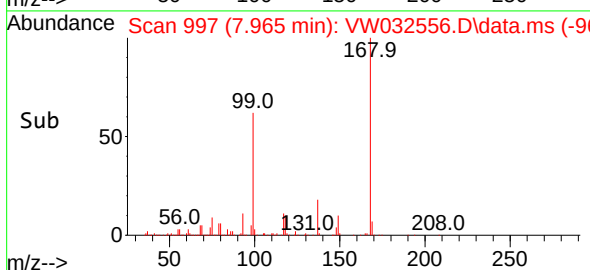
Tgt Ion: 75 Resp: 19166
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.2 51.5#
 77 1.0 24.5 36.7#

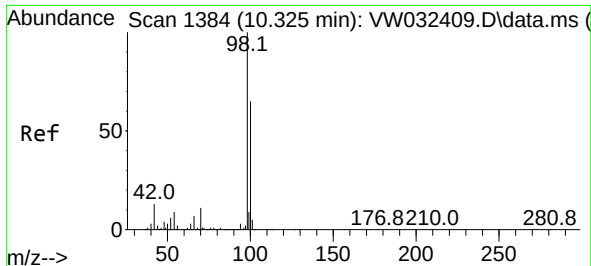


#38
 Carbon Tetrachloride
 Concen: 6.065 ug/l
 RT: 7.965 min Scan# 997
 Delta R.T. -0.116 min
 Lab File: VW032556.D
 Acq: 26 Nov 2025 19:45



Tgt Ion: 117 Resp: 22366
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.0 115.4#
 121 0.0 22.0 33.0#

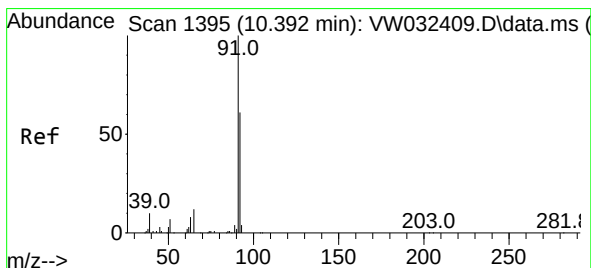
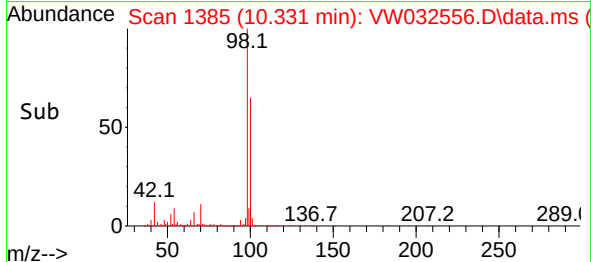
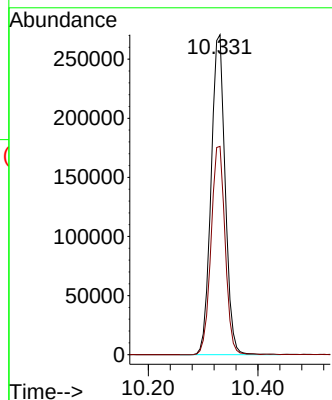
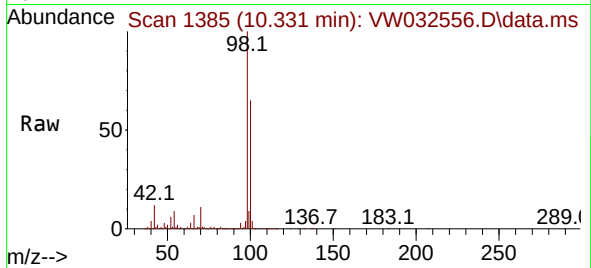




#50
Toluene-d8
Concen: 44.460 ug/l
RT: 10.331 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

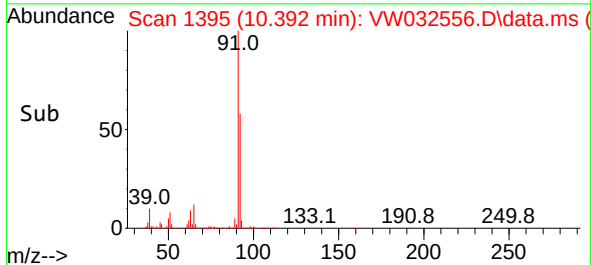
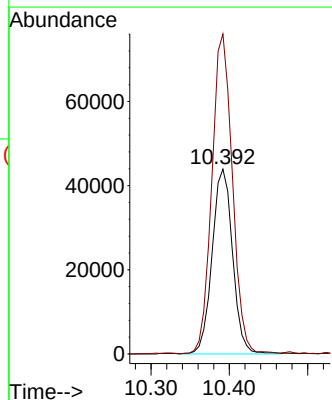
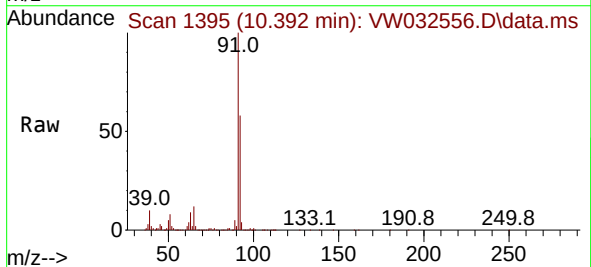
Instrument :
MSVOA_W
ClientSampleId :

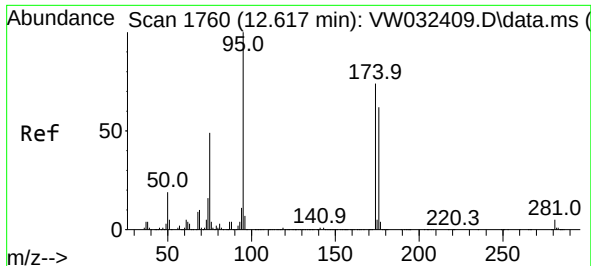
Tgt Ion: 98 Resp: 480474
Ion Ratio Lower Upper
98 100
100 65.2 53.3 79.9



#52
Toluene
Concen: 9.645 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Tgt Ion: 92 Resp: 79630
Ion Ratio Lower Upper
92 100
91 173.3 136.6 205.0

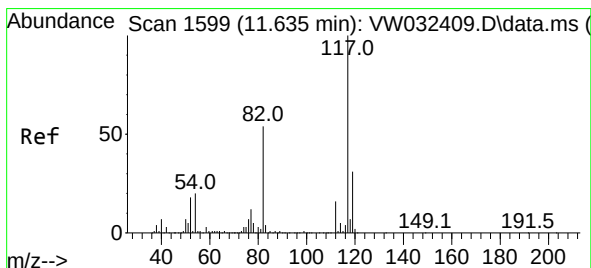
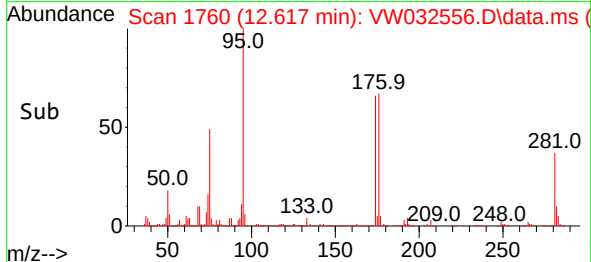
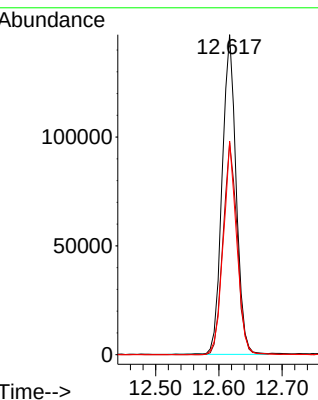
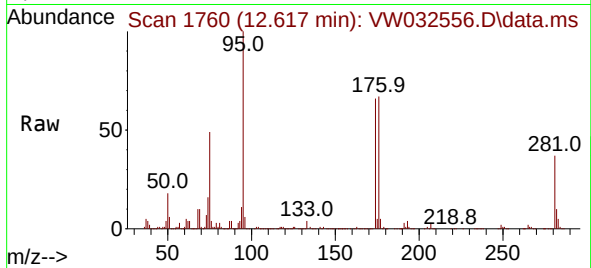




#62
4-Bromofluorobenzene
Concen: 55.516 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

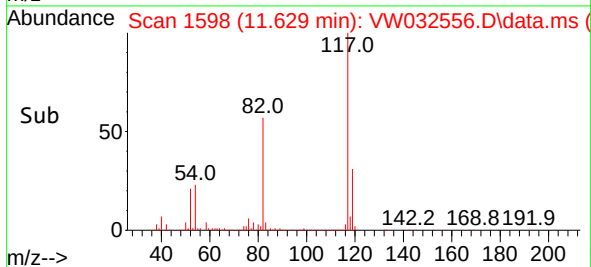
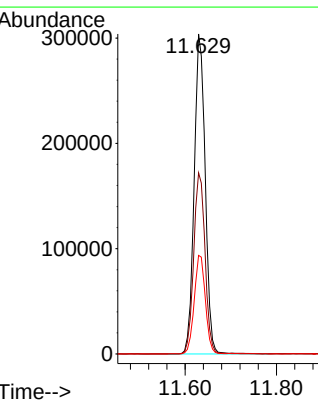
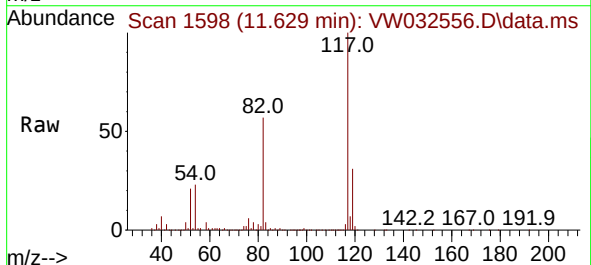
Instrument :
MSVOA_W
ClientSampleId :

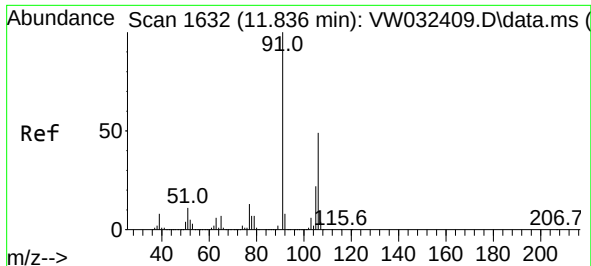
Tgt Ion: 95 Resp: 226643
Ion Ratio Lower Upper
95 100
174 67.2 0.0 135.4
176 64.4 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Tgt Ion: 117 Resp: 508944
Ion Ratio Lower Upper
117 100
82 56.6 43.0 64.4
119 30.8 25.0 37.6

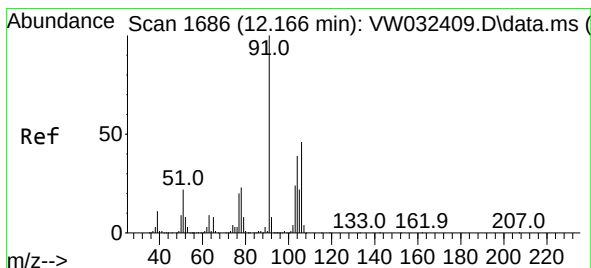
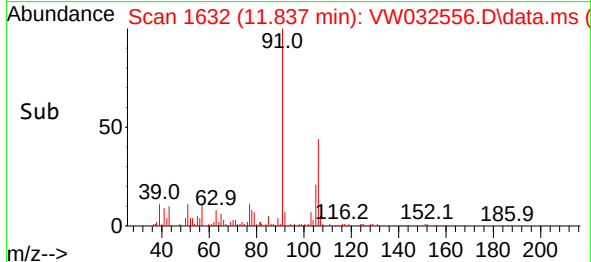
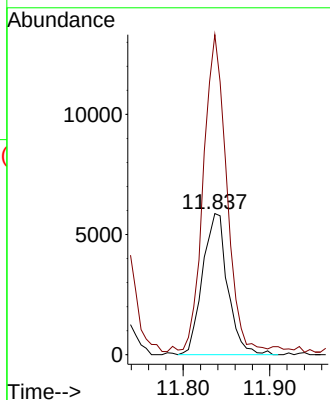
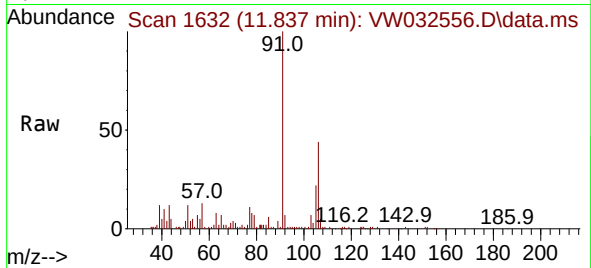




#68
m/p-Xylenes
Concen: 1.656 ug/l
RT: 11.837 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

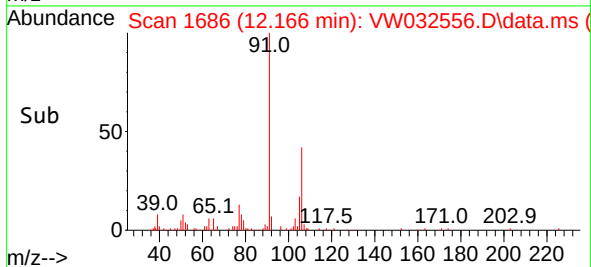
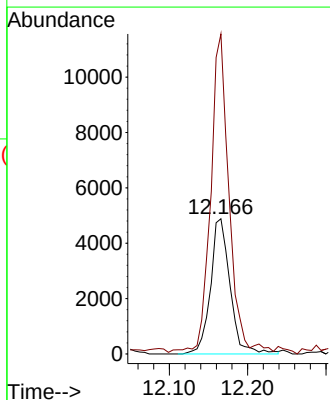
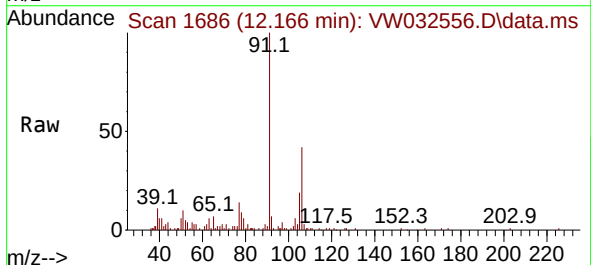
Instrument :
MSVOA_W
ClientSampleId :

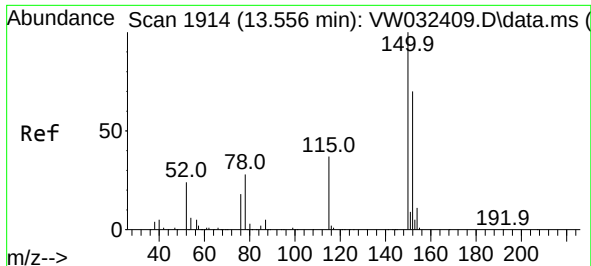
Tgt Ion:106 Resp: 11800
Ion Ratio Lower Upper
106 100
91 208.3 165.5 248.3



#69
o-Xylene
Concen: 1.243 ug/l
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Tgt Ion:106 Resp: 8485
Ion Ratio Lower Upper
106 100
91 216.5 109.3 327.8

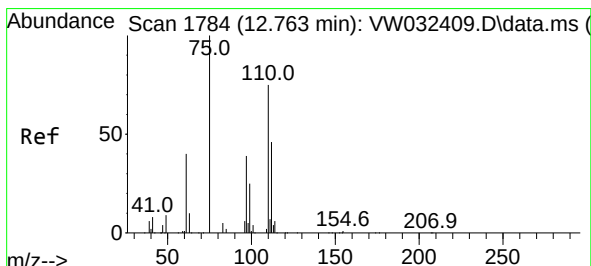
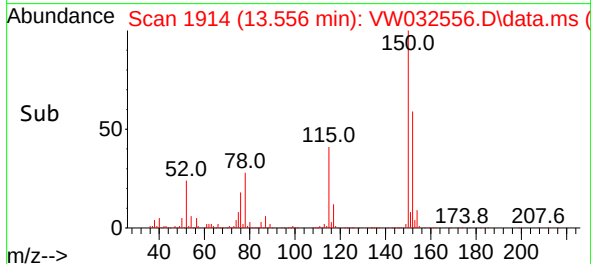
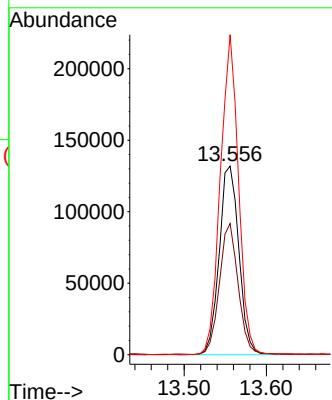
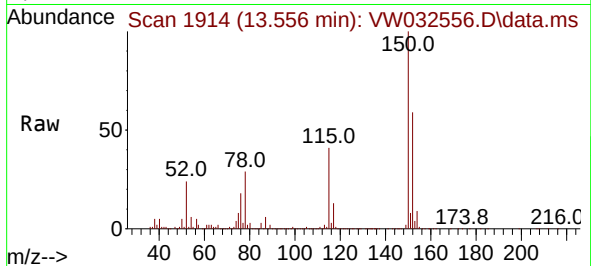




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. 0.000 min
 Lab File: VW032556.D
 Acq: 26 Nov 2025 19:45

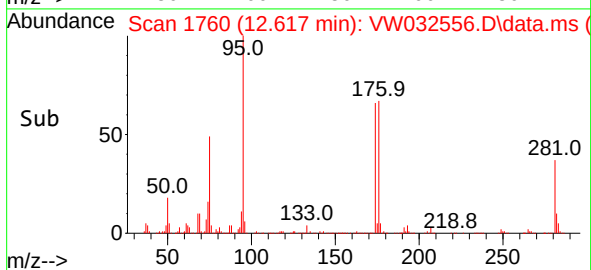
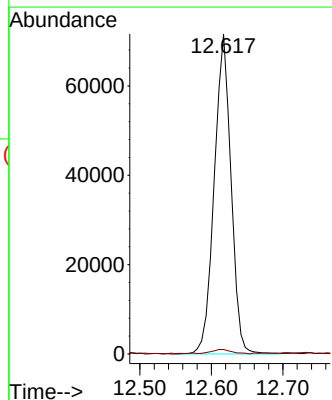
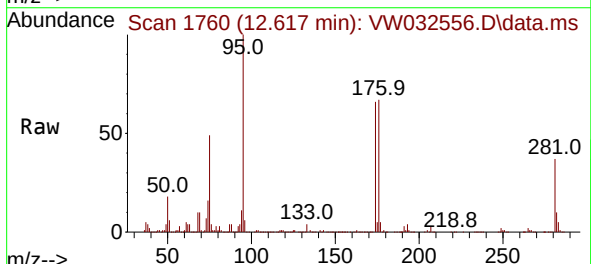
Instrument :
 MSVOA_W
 ClientSampleId :

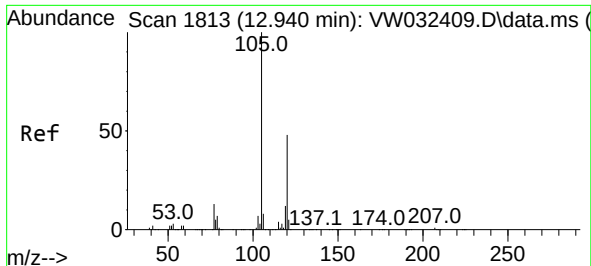
Tgt Ion:152 Resp: 219244
 Ion Ratio Lower Upper
 152 100
 115 66.3 32.8 98.3
 150 156.9 0.0 356.6



#76
 1,2,3-Trichloropropane
 Concen: 38.801 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.146 min
 Lab File: VW032556.D
 Acq: 26 Nov 2025 19:45

Tgt Ion: 75 Resp: 116643
 Ion Ratio Lower Upper
 75 100
 77 1.8 151.6 454.8#

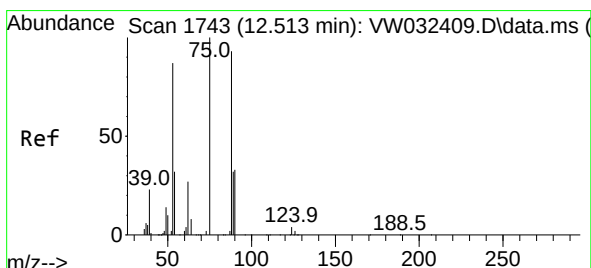
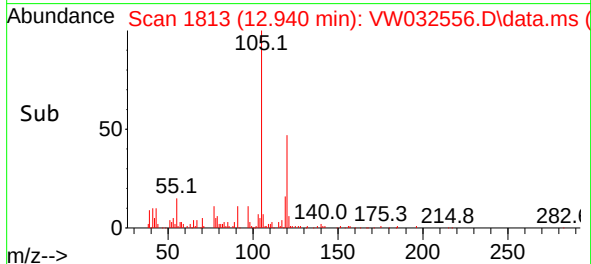
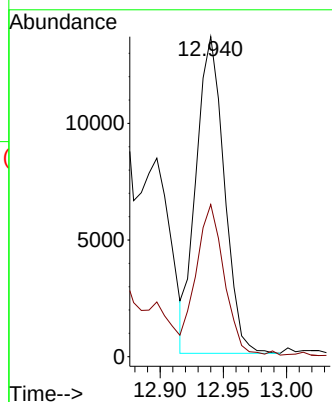
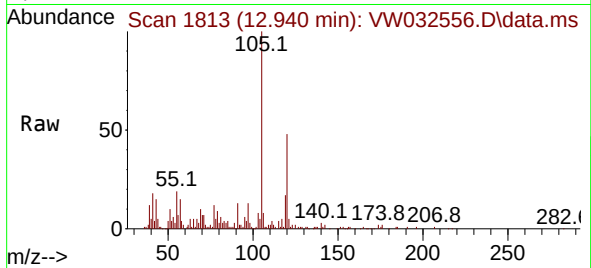




#80
1,3,5-Trimethylbenzene
Concen: 1.578 ug/l
RT: 12.940 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

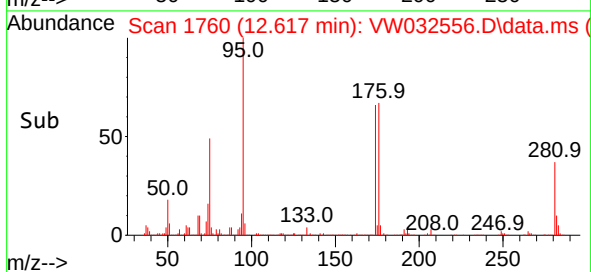
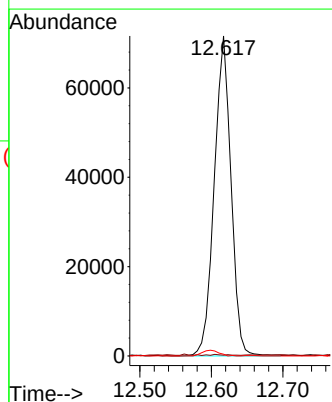
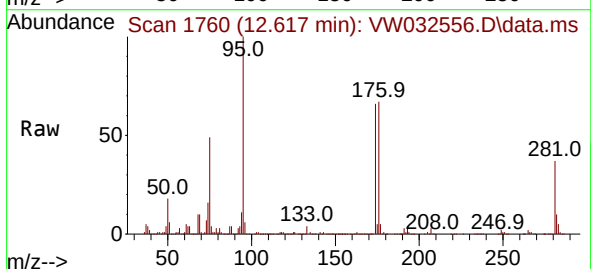
Instrument :
MSVOA_W
ClientSampleId :

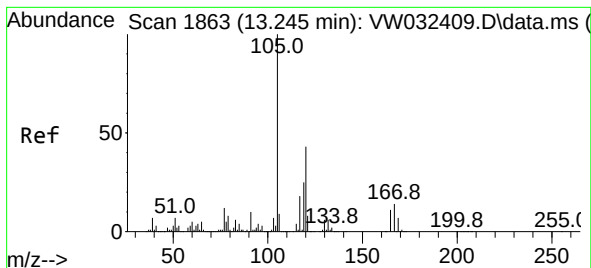
Tgt Ion:105 Resp: 20959
Ion Ratio Lower Upper
105 100
120 47.6 24.2 72.6



#81
trans-1,4-Dichloro-2-butene
Concen: 88.871 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032556.D
Acq: 26 Nov 2025 19:45

Tgt Ion: 75 Resp: 116643
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 1.8 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 4.123 ug/l

RT: 13.245 min Scan# 1863

Delta R.T. 0.000 min

Lab File: VW032556.D

Acq: 26 Nov 2025 19:45

Instrument :

MSVOA_W

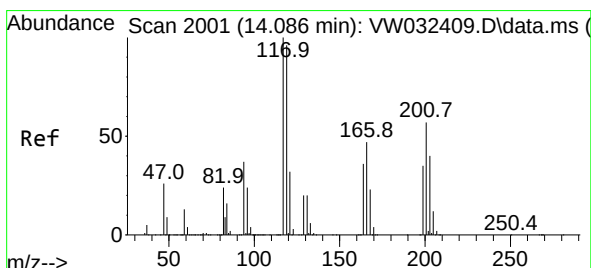
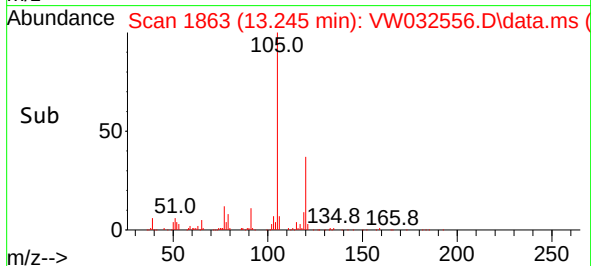
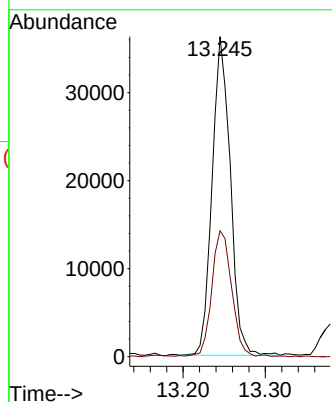
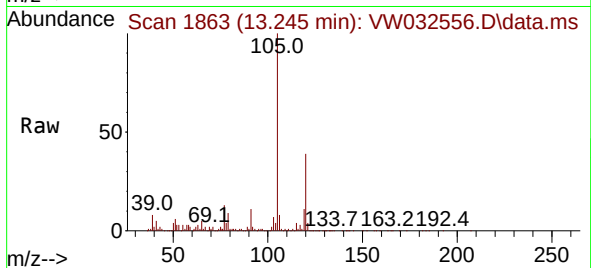
ClientSampleId :

Tgt Ion:105 Resp: 55707

Ion Ratio Lower Upper

105 100

120 42.4 22.1 66.5



#90

Hexachloroethane

Concen: 1.523 ug/l

RT: 14.092 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VW032556.D

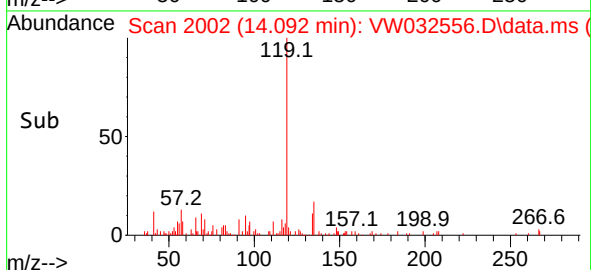
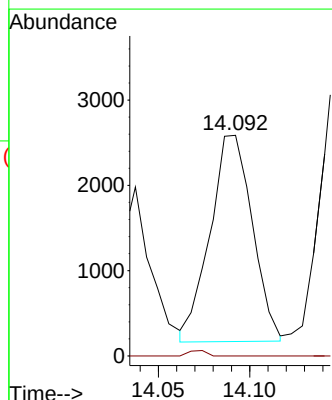
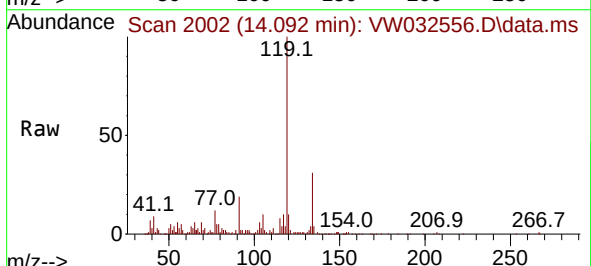
Acq: 26 Nov 2025 19:45

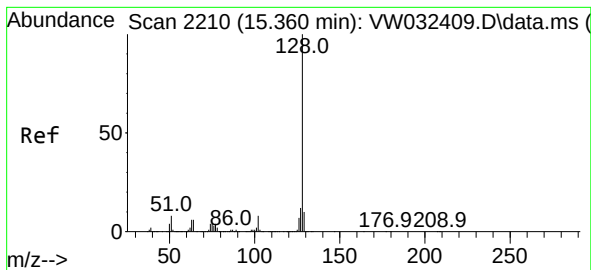
Tgt Ion:117 Resp: 3901

Ion Ratio Lower Upper

117 100

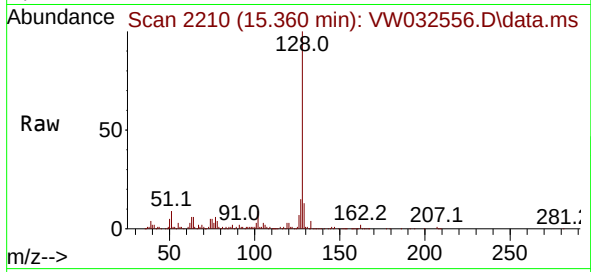
201 1.1 32.0 96.0#





#95
 Naphthalene
 Concen: 8.125 ug/l
 RT: 15.360 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VW032556.D
 Acq: 26 Nov 2025 19:45

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:128 Resp: 85556

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	11.8	8.6	12.8

