

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072325\
 Data File : VW031906.D
 Acq On : 23 Jul 2025 12:36
 Operator : SY/MD
 Sample : Q2674-01
 Misc : 5.02g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TR-04-072225

Quant Time: Jul 24 02:51:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

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

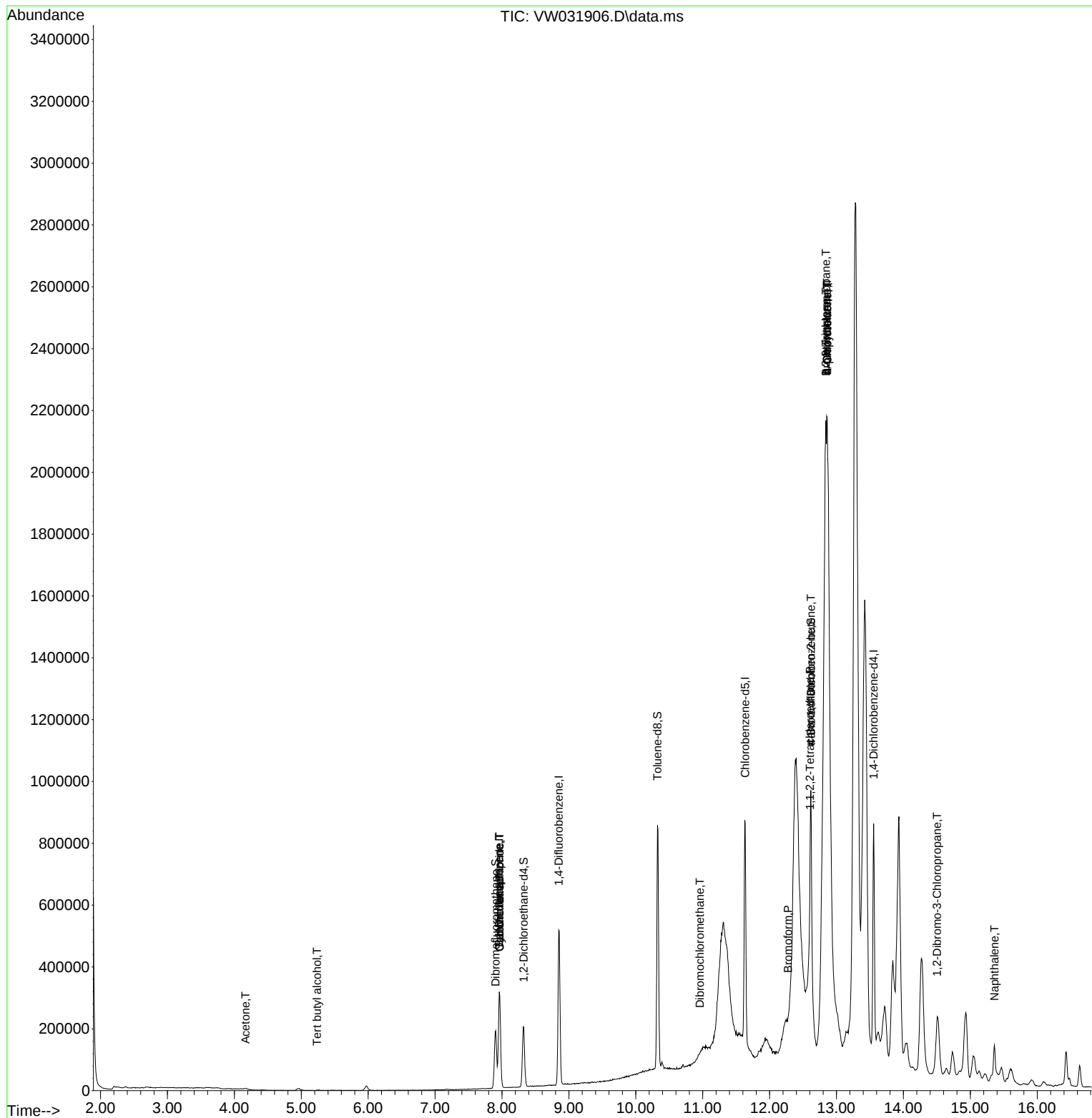
Internal Standards						
1) Pentafluorobenzene	7.959	168	218464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	439653	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	395259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	178059	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.325	65	161164	48.767	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	97.540%	
35) Dibromofluoromethane	7.904	113	135862	45.477	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	90.960%	
50) Toluene-d8	10.325	98	529568	46.836	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	93.680%	
62) 4-Bromofluorobenzene	12.617	95	276028	63.578	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	127.160%	
Target Compounds						Qvalue
11) Tert butyl alcohol	5.234	59	260	1.338	ug/l #	72
13) Acrolein	3.929	56	92	Below Cal	#	14
16) Acetone	4.167	43	3562	4.542	ug/l #	87
20) Methylene Chloride	4.972	84	5156	Below Cal	#	77
31) Cyclohexane	7.965	56	5464	1.078	ug/l #	3
36) 1,1-Dichloropropene	7.959	75	19396	4.228	ug/l #	53
38) Carbon Tetrachloride	7.965	117	24956	5.668	ug/l #	19
60) Dibromochloromethane	10.959	129	3217	1.024	ug/l	87
71) Bromoform	12.275	173	9232	5.629	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.605	83	108311	33.028	ug/l #	28
76) 1,2,3-Trichloropropane	12.842	75	118679	48.275	ug/l #	100
77) Bromobenzene	12.842	156	1623570	485.696	ug/l #	1
78) n-propylbenzene	12.861	91	28205	1.486	ug/l #	54
79) 2-Chlorotoluene	12.861	91	28205	2.490	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	98476	92.481	ug/l #	23
82) 4-Chlorotoluene	12.861	91	28205	2.373	ug/l #	1
92) 1,2-Dibromo-3-Chloropr...	14.501	75	11934	20.143	ug/l #	7
95) Naphthalene	15.360	128	97931	10.711	ug/l	97

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

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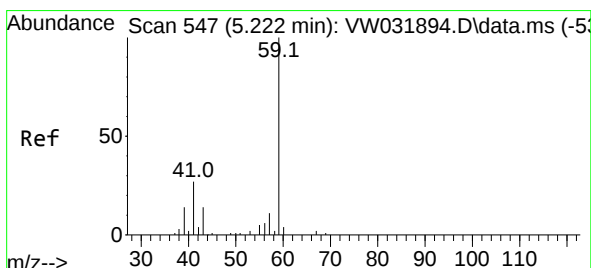
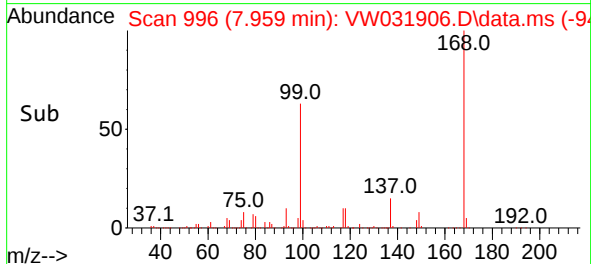
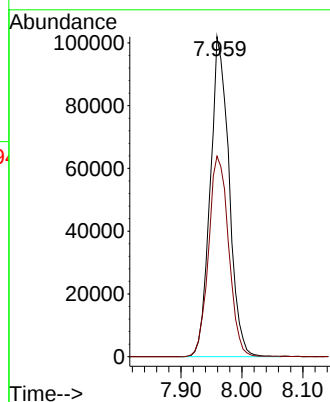
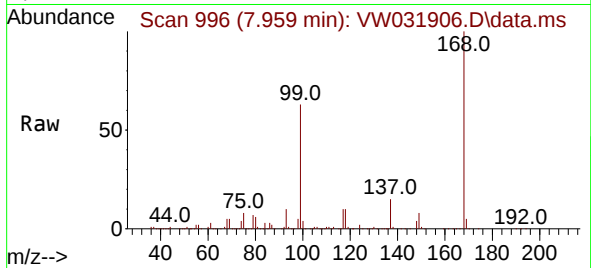




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

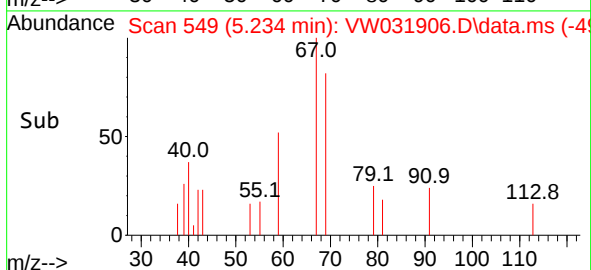
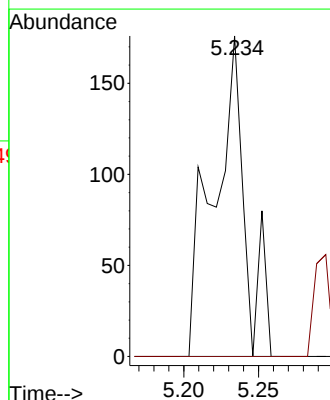
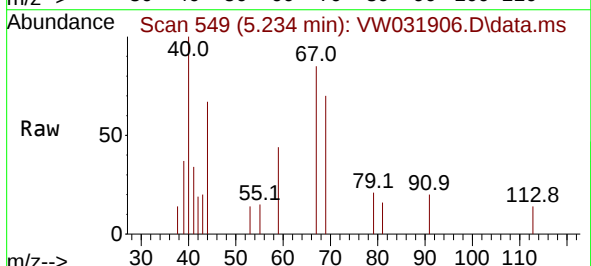
Instrument :
MSVOA_W
ClientSampleId :
TR-04-072225

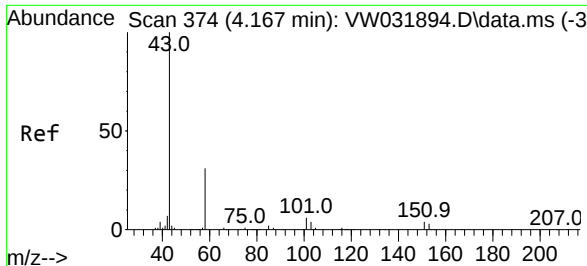
Tgt Ion:168 Resp: 218464
Ion Ratio Lower Upper
168 100
99 62.7 48.2 72.2



#11
Tert butyl alcohol
Concen: 1.338 ug/l
RT: 5.234 min Scan# 549
Delta R.T. 0.012 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

Tgt Ion: 59 Resp: 260
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

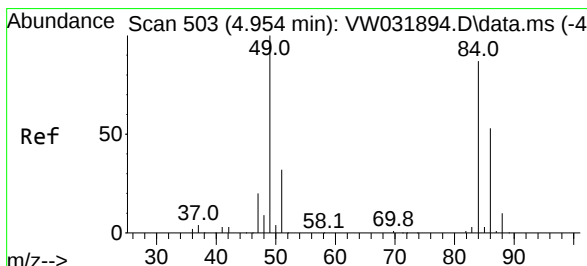
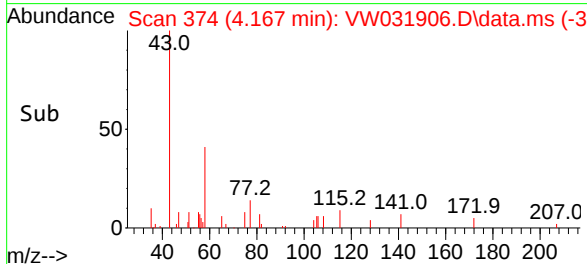
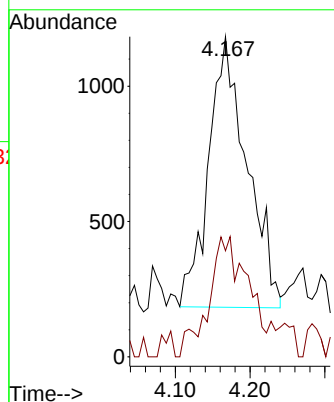
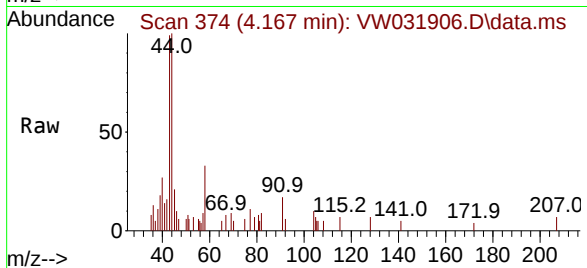




#16
Acetone
Concen: 4.542 ug/l
RT: 4.167 min Scan# 31
Delta R.T. -0.000 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

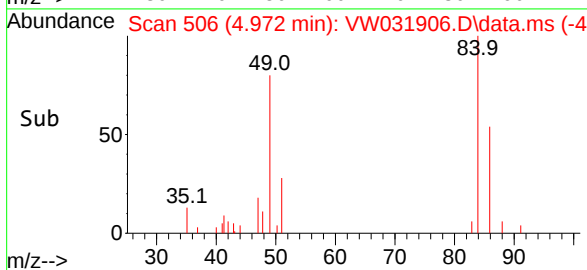
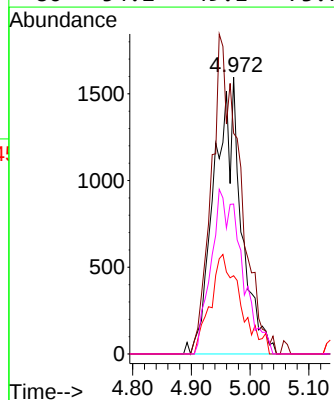
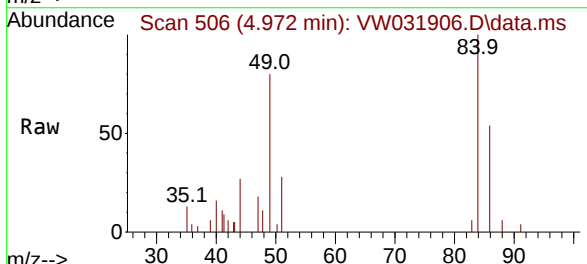
Instrument :
MSVOA_W
ClientSampleId :
TR-04-072225

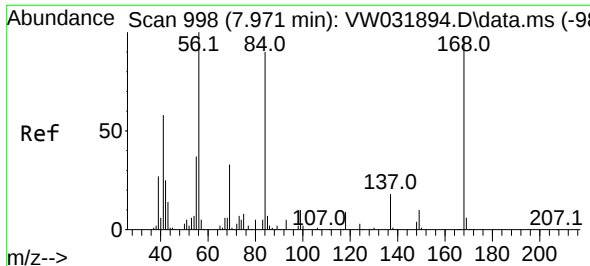
Tgt Ion: 43 Resp: 3562
Ion Ratio Lower Upper
43 100
58 39.3 25.5 38.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.972 min Scan# 506
Delta R.T. 0.018 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

Tgt Ion: 84 Resp: 5156
Ion Ratio Lower Upper
84 100
49 79.7 91.9 137.9#
51 28.3 29.0 43.6#
86 54.2 49.1 73.7

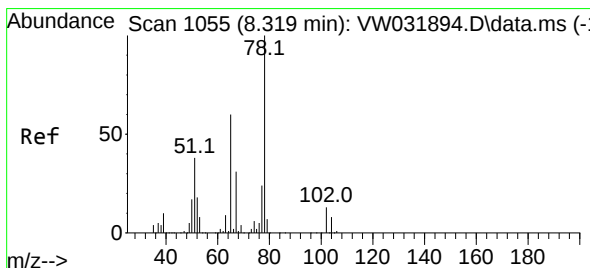
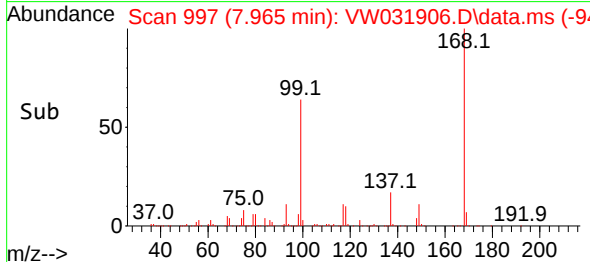
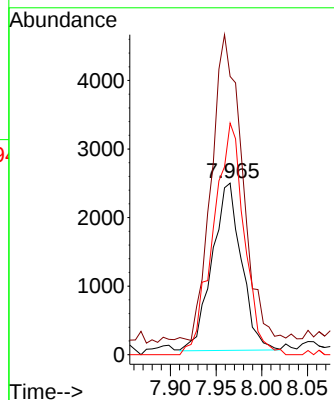
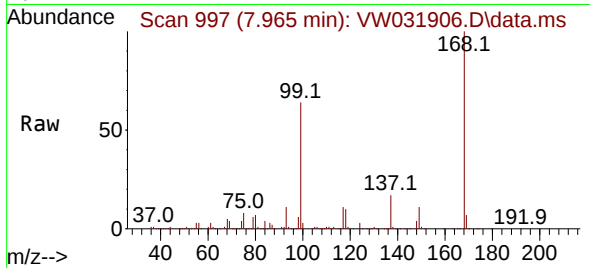




#31
Cyclohexane
Concen: 1.078 ug/l
RT: 7.965 min Scan# 998
Delta R.T. -0.006 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

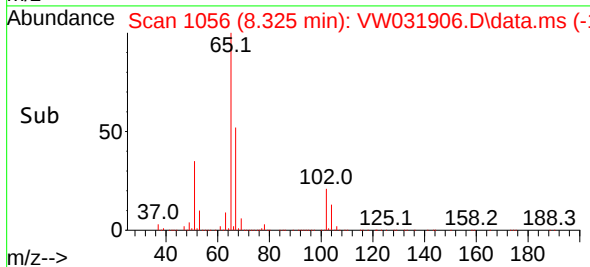
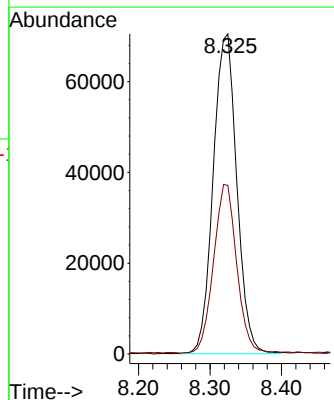
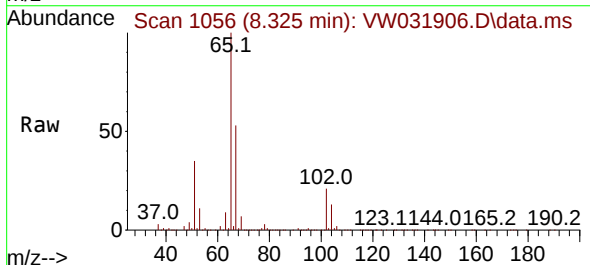
Instrument :
MSVOA_W
ClientSampleId :
TR-04-072225

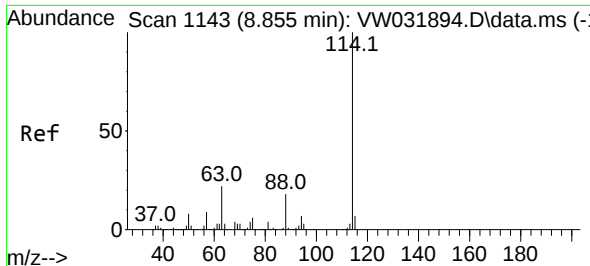
Tgt Ion: 56 Resp: 5464
Ion Ratio Lower Upper
56 100
69 156.5 26.7 40.1#
84 138.8 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 48.767 ug/l
RT: 8.325 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

Tgt Ion: 65 Resp: 161164
Ion Ratio Lower Upper
65 100
67 51.6 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

Instrument :

MSVOA_W

ClientSampleId :

TR-04-072225

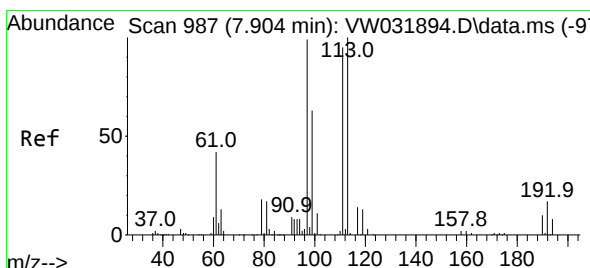
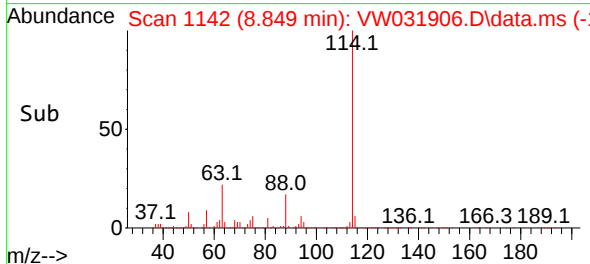
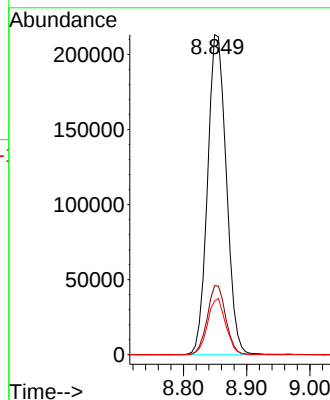
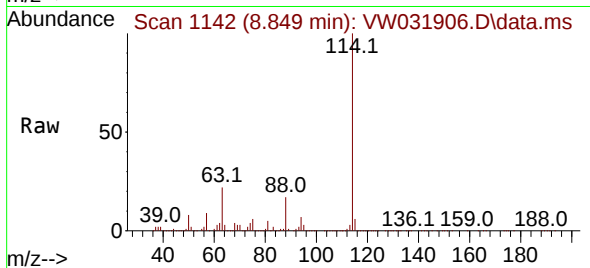
Tgt Ion:114 Resp: 439653

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.2

88 16.8 0.0 35.6



#35

Dibromofluoromethane

Concen: 45.477 ug/l

RT: 7.904 min Scan# 987

Delta R.T. -0.000 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

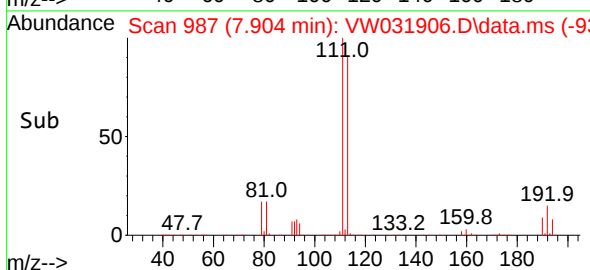
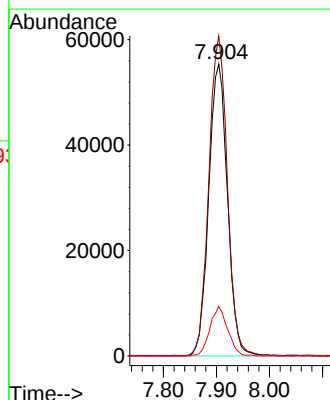
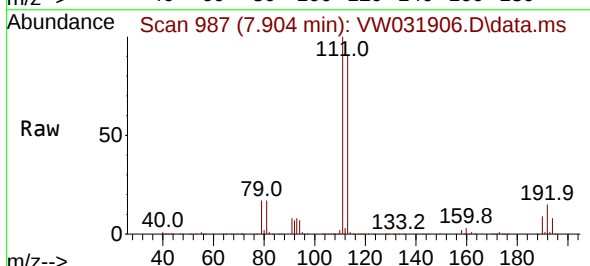
Tgt Ion:113 Resp: 135862

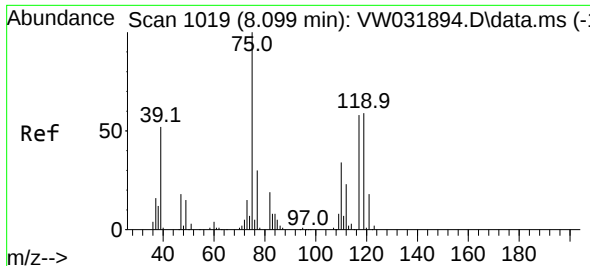
Ion Ratio Lower Upper

113 100

111 108.2 79.9 119.9

192 16.1 12.6 19.0





#36

1,1-Dichloropropene

Concen: 4.228 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.140 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

Instrument :

MSVOA_W

ClientSampleId :

TR-04-072225

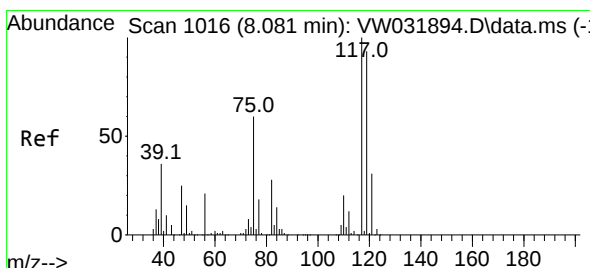
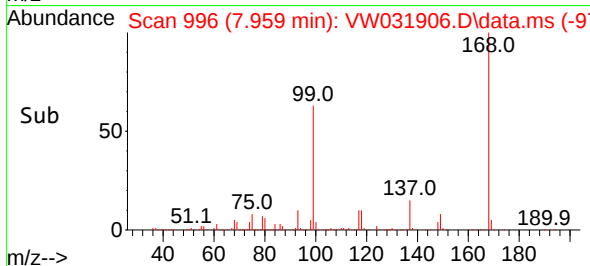
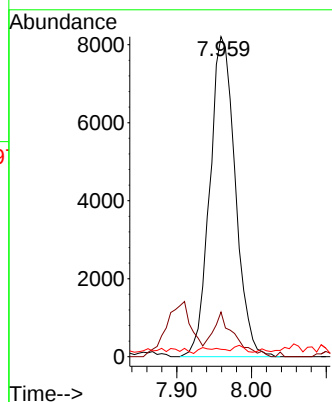
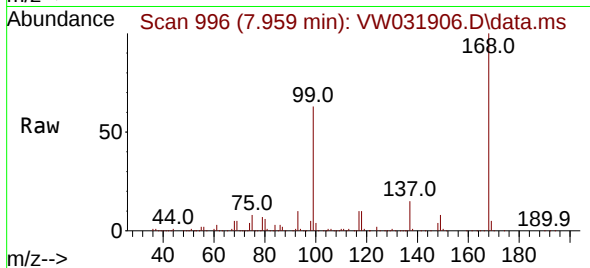
Tgt Ion: 75 Resp: 19396

Ion Ratio Lower Upper

75 100

110 12.0 17.0 50.9#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.668 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

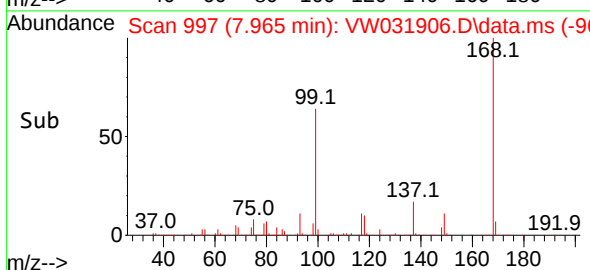
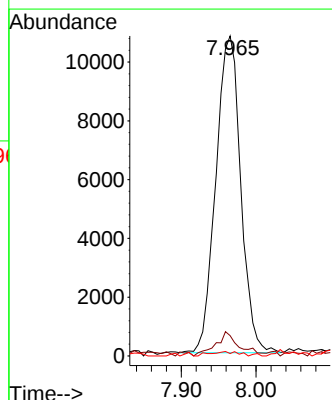
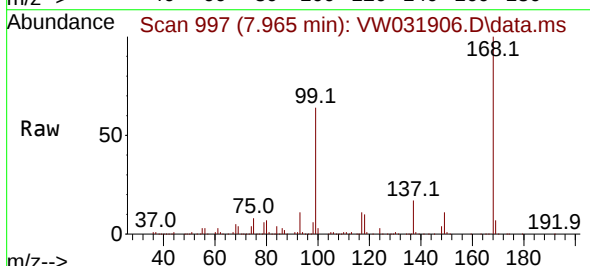
Tgt Ion: 117 Resp: 24956

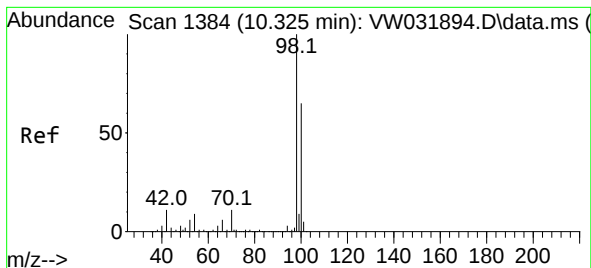
Ion Ratio Lower Upper

117 100

119 6.4 74.3 111.5#

121 0.8 24.6 37.0#





#50

Toluene-d8

Concen: 46.836 ug/l

RT: 10.325 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

Instrument :

MSVOA_W

ClientSampleId :

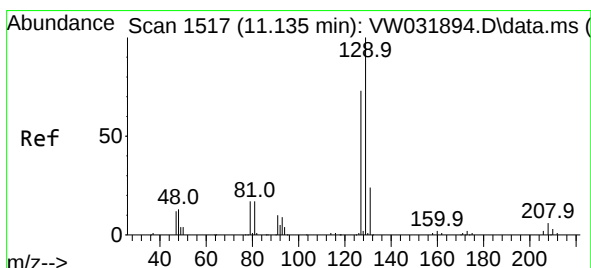
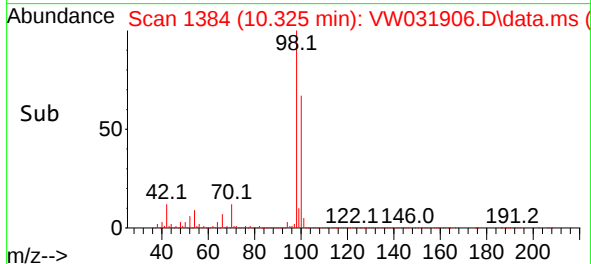
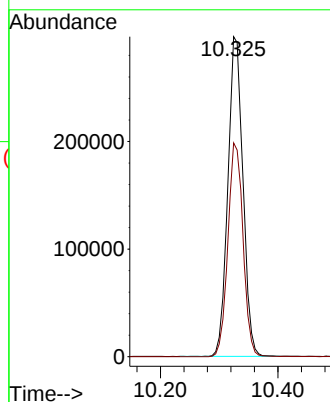
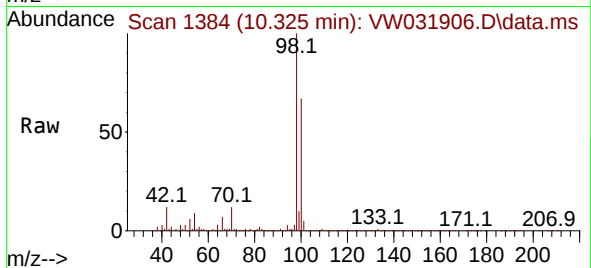
TR-04-072225

Tgt Ion: 98 Resp: 529568

Ion Ratio Lower Upper

98 100

100 67.0 51.7 77.5



#60

Dibromochloromethane

Concen: 1.024 ug/l

RT: 10.959 min Scan# 1488

Delta R.T. -0.177 min

Lab File: VW031906.D

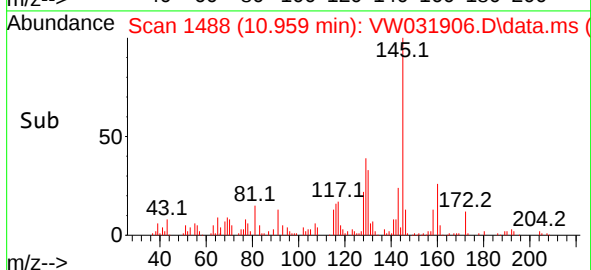
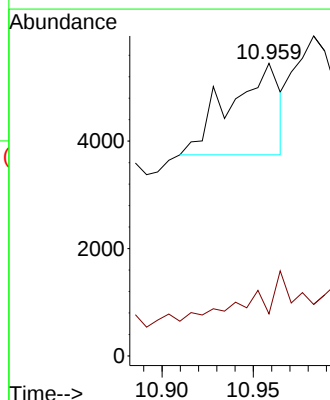
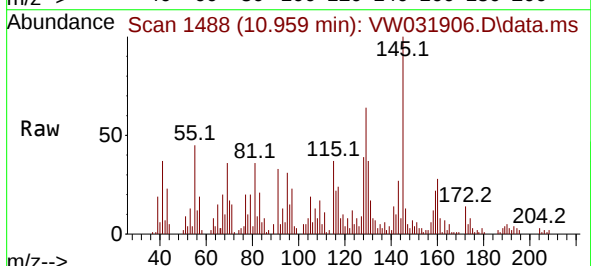
Acq: 23 Jul 2025 12:36

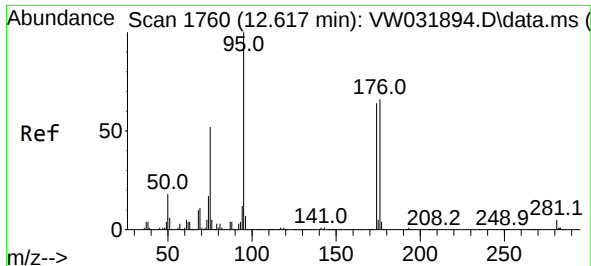
Tgt Ion:129 Resp: 3217

Ion Ratio Lower Upper

129 100

127 67.6 39.6 118.8

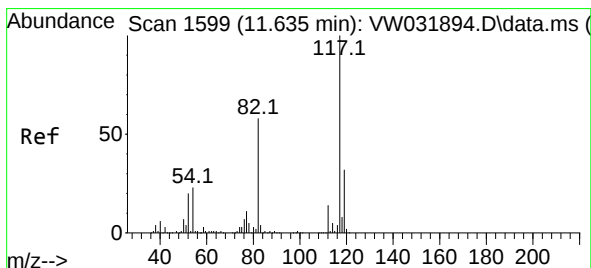
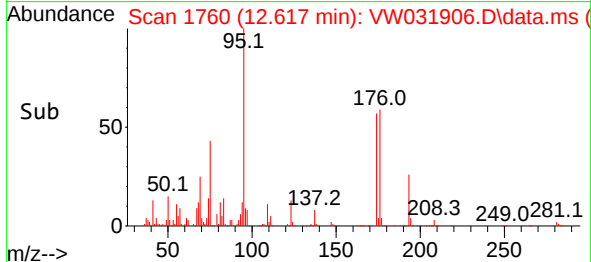
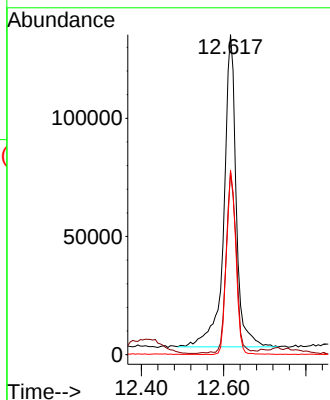
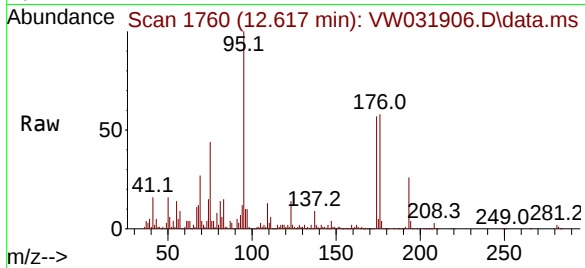




#62
4-Bromofluorobenzene
Concen: 63.578 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

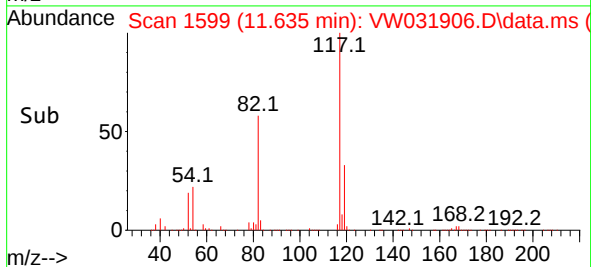
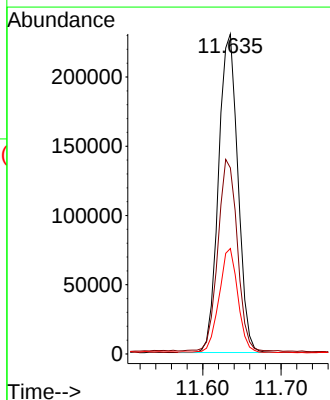
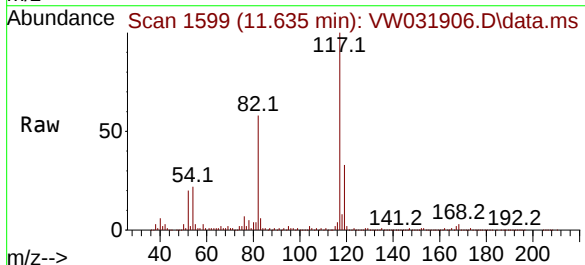
Instrument :
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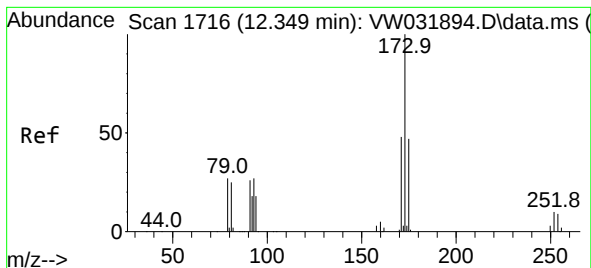
Tgt Ion: 95 Resp: 276028
Ion Ratio Lower Upper
95 100
174 47.9 0.0 129.8
176 45.2 0.0 130.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

Tgt Ion: 117 Resp: 395259
Ion Ratio Lower Upper
117 100
82 57.4 46.5 69.7
119 32.6 25.8 38.6





#71

Bromoform

Concen: 5.629 ug/l

RT: 12.275 min Scan# 1704

Delta R.T. -0.073 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

Instrument :

MSVOA_W

ClientSampleId :

TR-04-072225

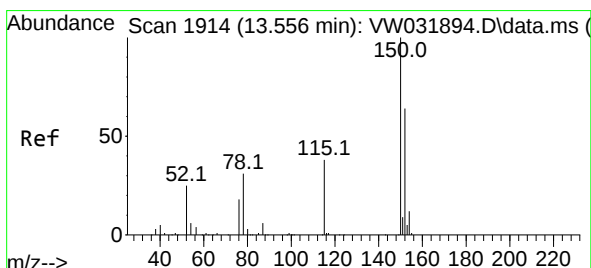
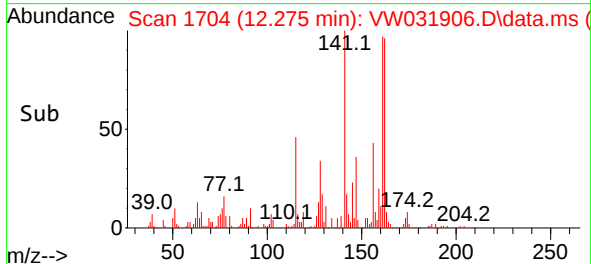
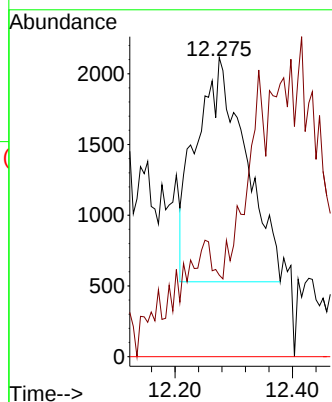
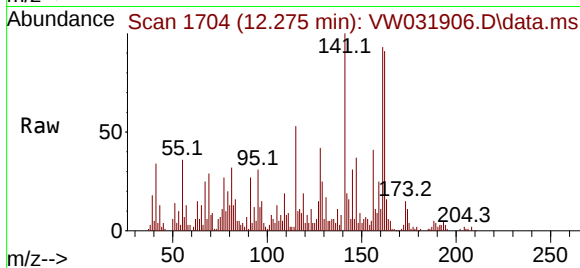
Tgt Ion:173 Resp: 9232

Ion Ratio Lower Upper

173 100

175 0.0 24.5 73.5#

254 0.0 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

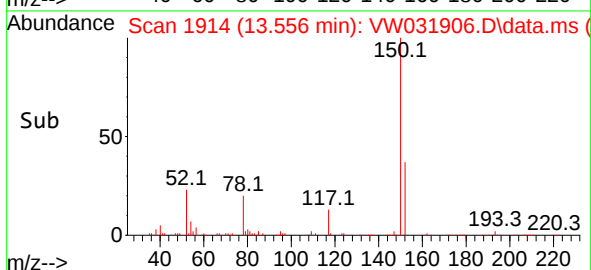
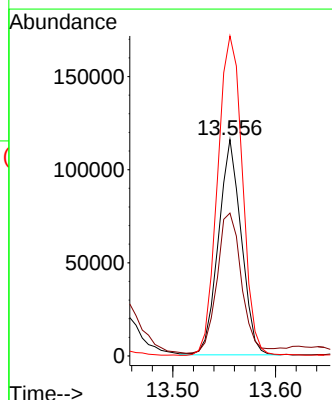
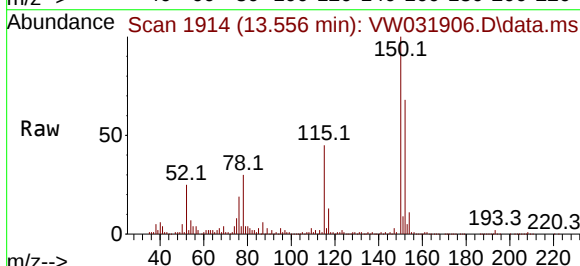
Tgt Ion:152 Resp: 178059

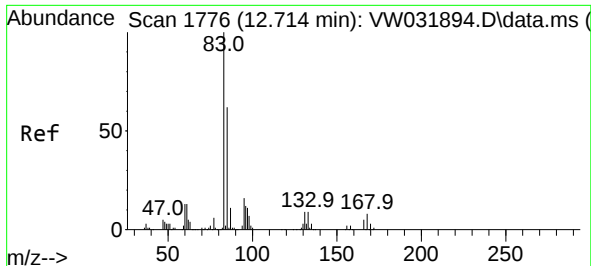
Ion Ratio Lower Upper

152 100

115 69.4 33.4 100.1

150 161.4 0.0 352.2

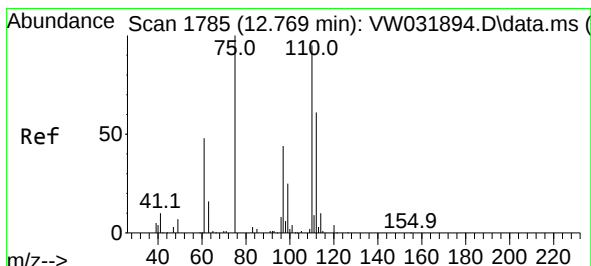
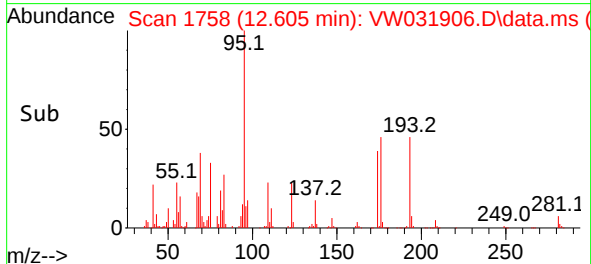
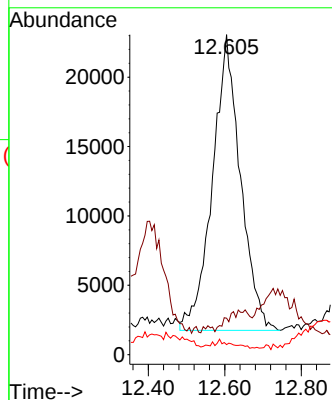
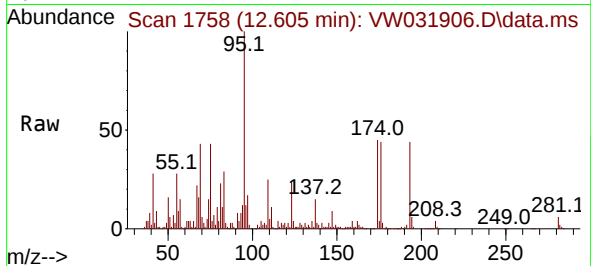




#75
1,1,2,2-Tetrachloroethane
Concen: 33.028 ug/l
RT: 12.605 min Scan# 11
Delta R.T. -0.110 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

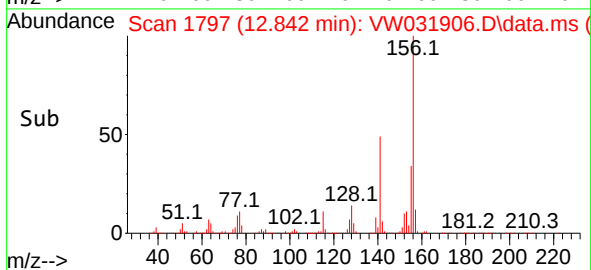
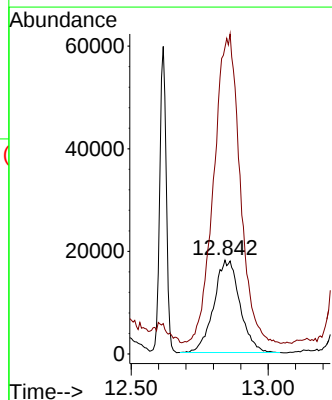
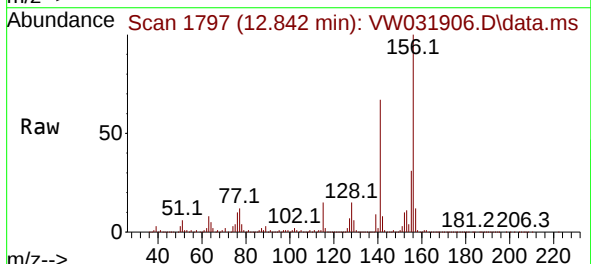
Instrument :
MSVOA_W
ClientSampleId :
TR-04-072225

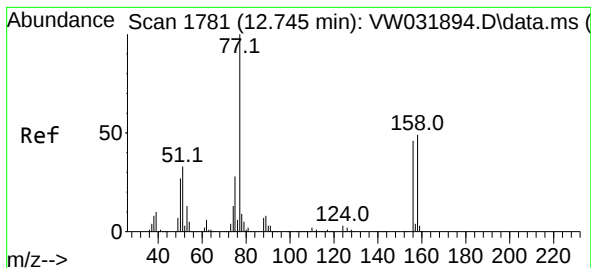
Tgt Ion: 83 Resp: 108311
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 1.7 31.8 95.3#



#76
1,2,3-Trichloropropane
Concen: 48.275 ug/l
RT: 12.842 min Scan# 1797
Delta R.T. 0.073 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

Tgt Ion: 75 Resp: 118679
Ion Ratio Lower Upper
75 100
77 336.8 0.0 0.0#





#77

Bromobenzene

Concen: 485.696 ug/l

RT: 12.842 min Scan# 1

Delta R.T. 0.098 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

Instrument :

MSVOA_W

ClientSampleId :

TR-04-072225

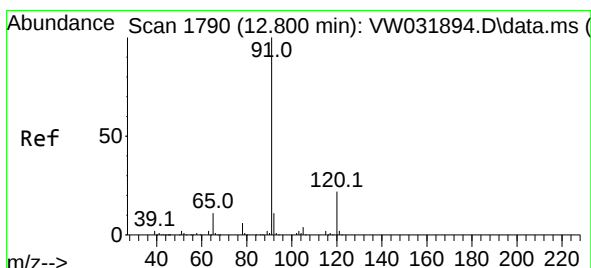
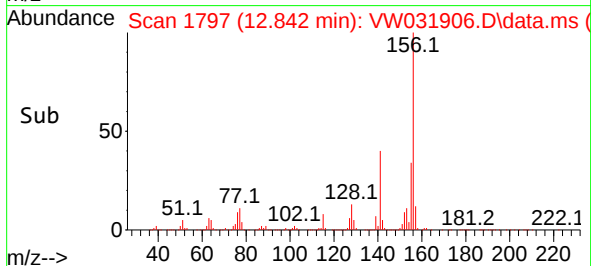
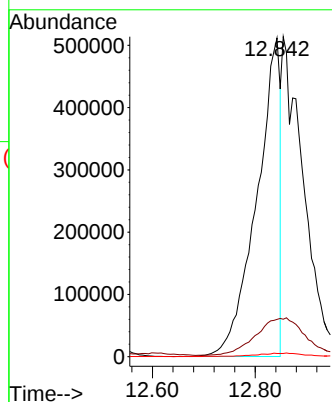
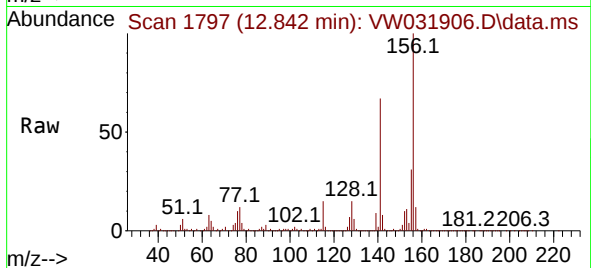
Tgt Ion:156 Resp: 1623570

Ion Ratio Lower Upper

156 100

77 0.0 115.3 345.8#

158 1.2 50.1 150.3#



#78

n-propylbenzene

Concen: 1.486 ug/l

RT: 12.861 min Scan# 1800

Delta R.T. 0.061 min

Lab File: VW031906.D

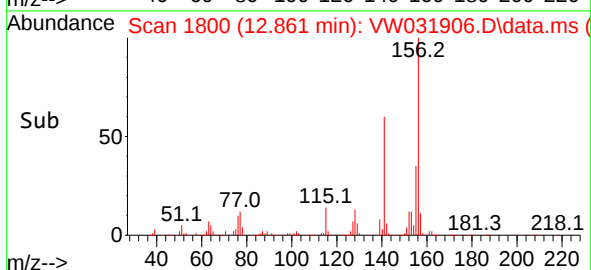
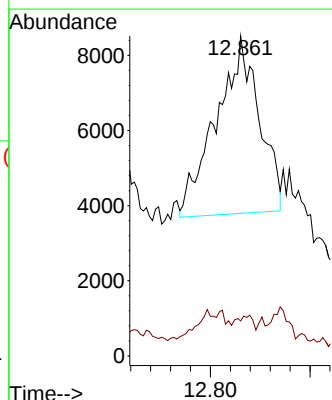
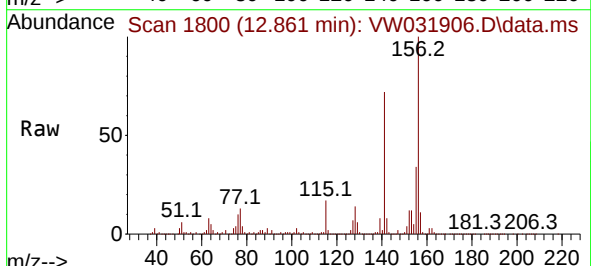
Acq: 23 Jul 2025 12:36

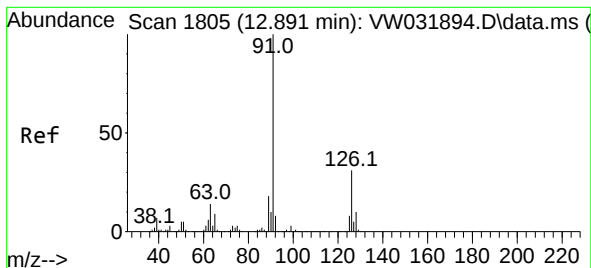
Tgt Ion: 91 Resp: 28205

Ion Ratio Lower Upper

91 100

120 0.0 10.9 32.6#





#79

2-Chlorotoluene

Concen: 2.490 ug/l

RT: 12.861 min Scan# 1

Delta R.T. -0.031 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

Instrument :

MSVOA_W

ClientSampleId :

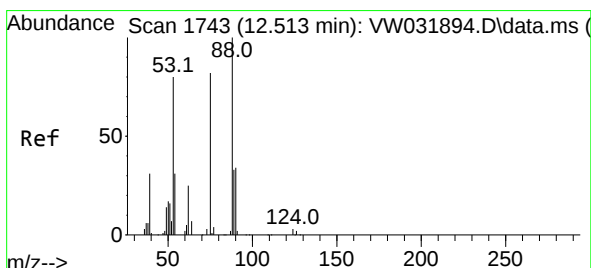
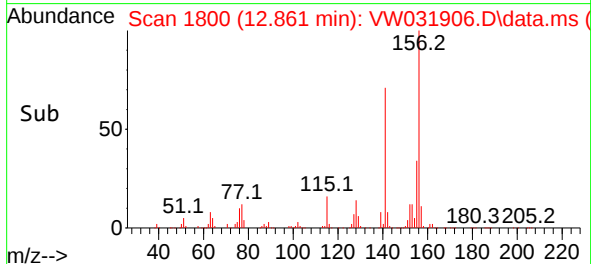
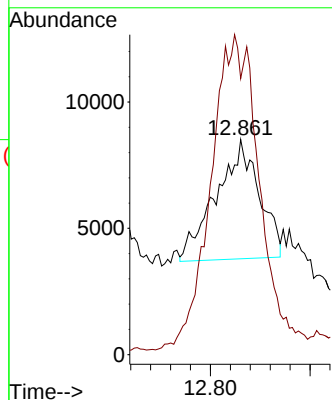
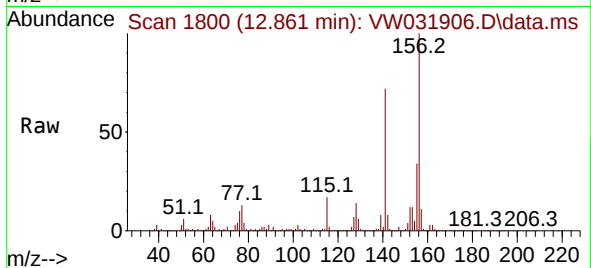
TR-04-072225

Tgt Ion: 91 Resp: 28205

Ion Ratio Lower Upper

91 100

126 182.4 15.6 46.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 92.481 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.104 min

Lab File: VW031906.D

Acq: 23 Jul 2025 12:36

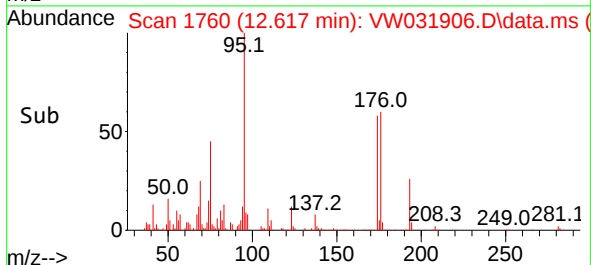
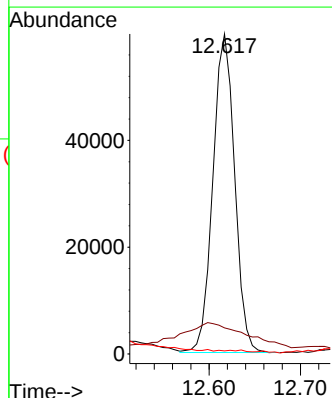
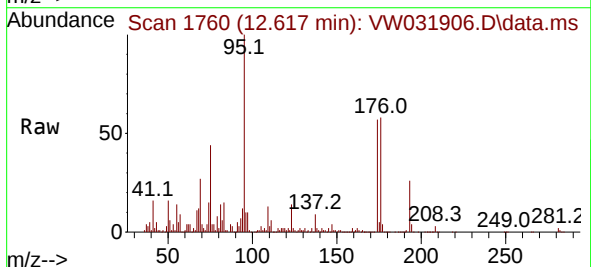
Tgt Ion: 75 Resp: 98476

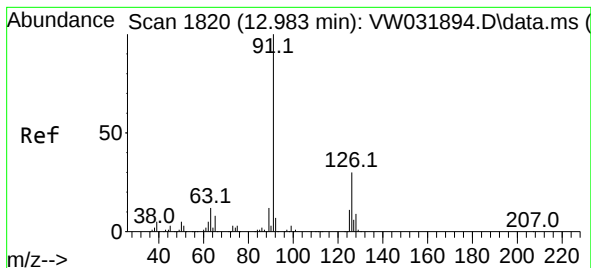
Ion Ratio Lower Upper

75 100

53 23.6 83.7 125.5#

89 0.0 39.0 58.6#

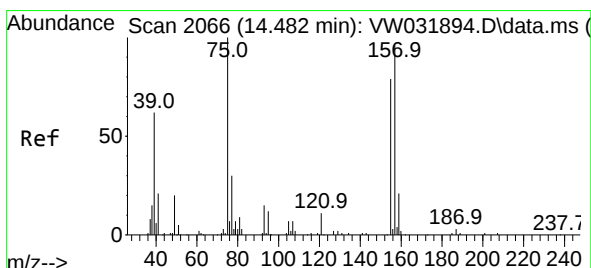
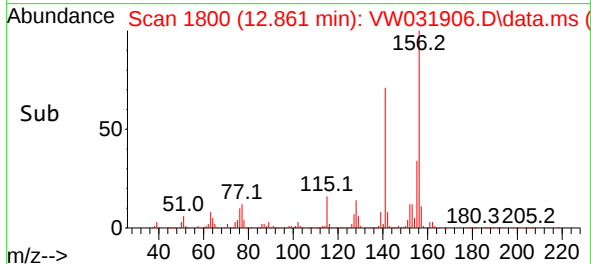
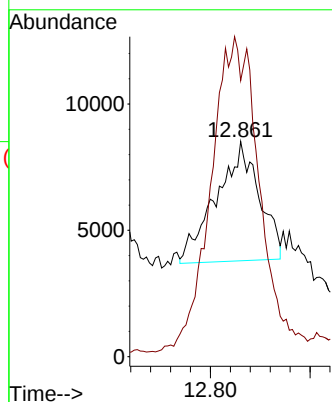
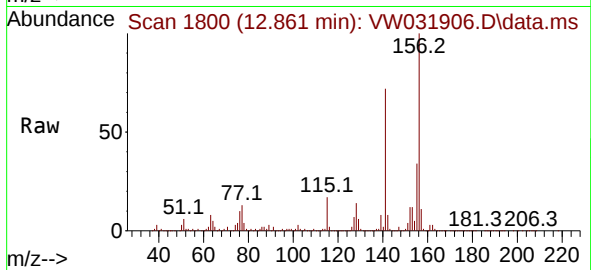




#82
4-Chlorotoluene
Concen: 2.373 ug/l
RT: 12.861 min Scan# 11
Delta R.T. -0.122 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

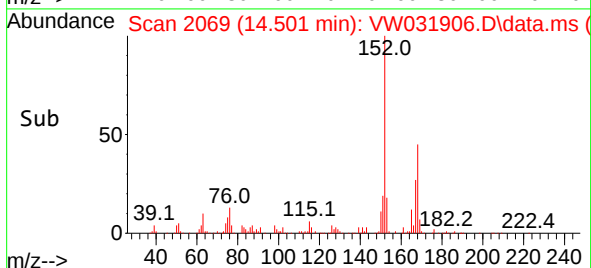
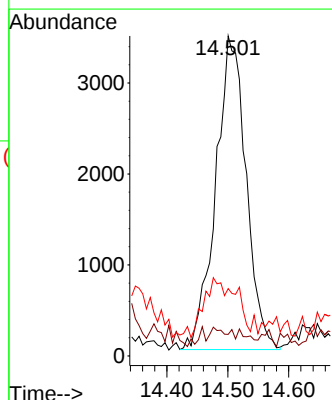
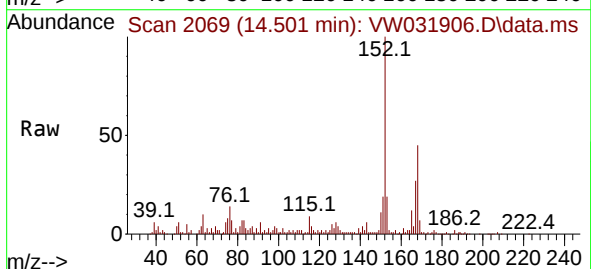
Instrument :
MSVOA_W
ClientSampleId :
TR-04-072225

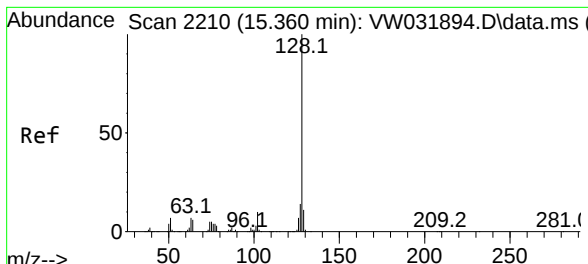
Tgt Ion: 91 Resp: 28205
Ion Ratio Lower Upper
91 100
126 180.6 15.8 47.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.143 ug/l
RT: 14.501 min Scan# 2069
Delta R.T. 0.018 min
Lab File: VW031906.D
Acq: 23 Jul 2025 12:36

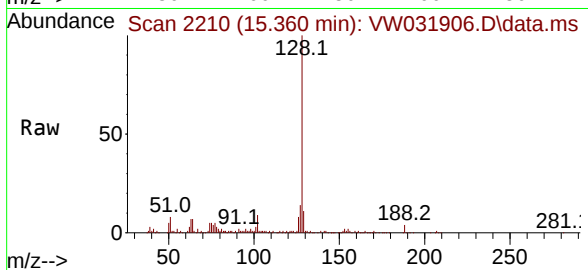
Tgt Ion: 75 Resp: 11934
Ion Ratio Lower Upper
75 100
155 0.0 35.9 107.7#
157 0.0 47.4 142.2#





#95
 Naphthalene
 Concen: 10.711 ug/l
 RT: 15.360 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VW031906.D
 Acq: 23 Jul 2025 12:36

Instrument :
 MSVOA_W
 ClientSampleId :
 TR-04-072225



Tgt Ion:	128	Resp:	97931
Ion Ratio	Lower	Upper	
128	100		
127	14.5	10.7	16.1
129	12.5	9.2	13.8

