

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112025\
 Data File : VW032517.D
 Acq On : 20 Nov 2025 12:15
 Operator : SY/MD
 Sample : Q3686-01
 Misc : 5.43g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 21 01:21:07 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)

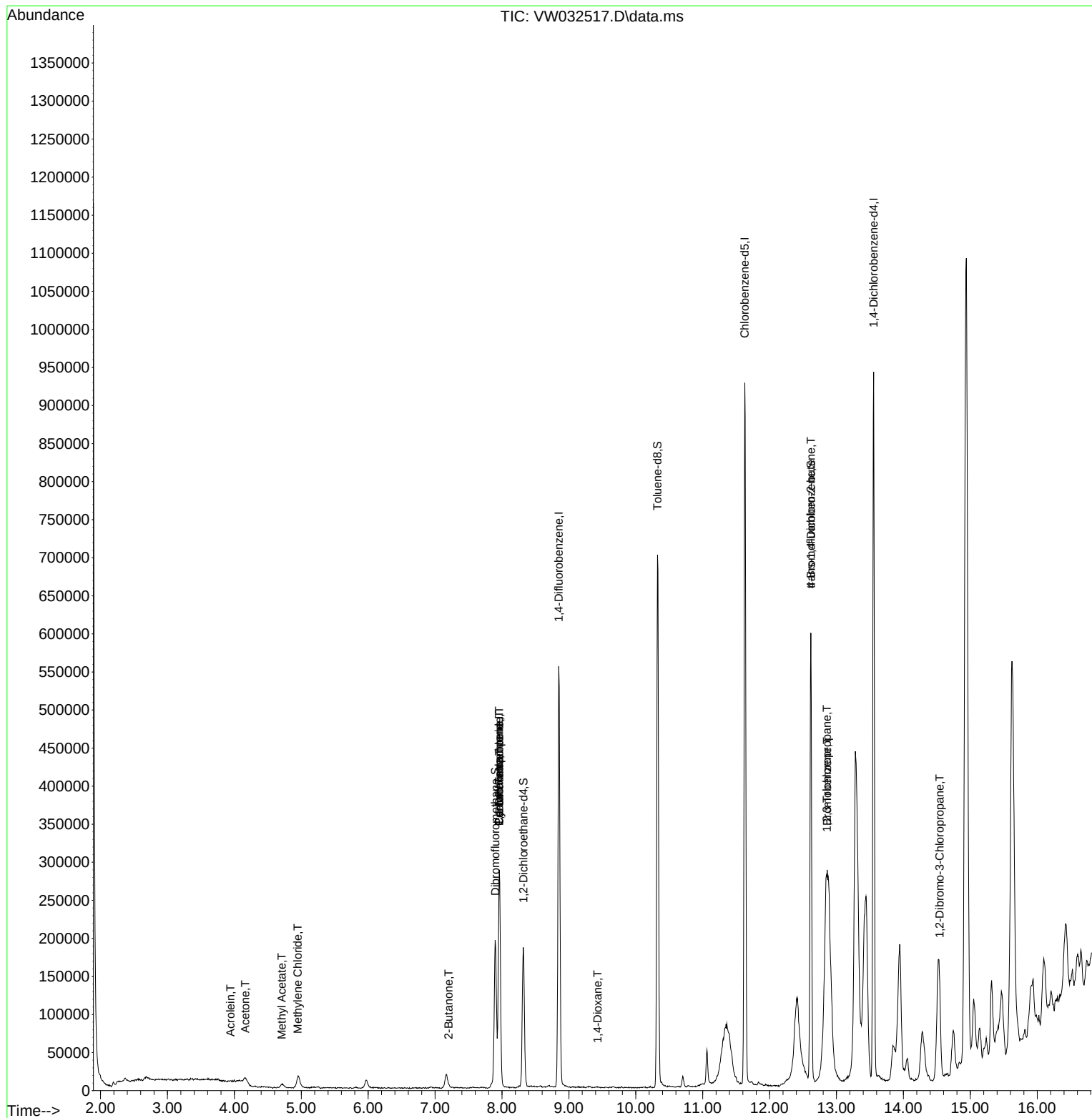
Internal Standards						
1) Pentafluorobenzene	7.959	168	199182	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	461971	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	508856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	233600	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	151051	58.822	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 117.640%		
35) Dibromofluoromethane	7.898	113	144295	52.169	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 104.340%		
50) Toluene-d8	10.325	98	471320	44.418	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 88.840%		
62) 4-Bromofluorobenzene	12.617	95	220258	54.949	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 109.900%		
Target Compounds						
					Qvalue	
13) Acrolein	3.942	56	463	1.243	ug/l	98
16) Acetone	4.161	43	8308	10.814	ug/l	91
18) Methyl Acetate	4.710	43	10564	5.553	ug/l	91
20) Methylene Chloride	4.948	84	12810	4.662	ug/l	89
25) 2-Butanone	7.203	43	2836	2.506	ug/l #	75
31) Cyclohexane	7.959	56	5363	1.262	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	17616	4.323	ug/l #	51
38) Carbon Tetrachloride	7.959	117	21990	6.073	ug/l #	16
49) 1,4-Dioxane	9.428	88	104	3.888	ug/l #	1
76) 1,2,3-Trichloropropane	12.855	75	8935	2.790	ug/l	50
77) Bromobenzene	12.861	156	398458	98.093	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	109086	78.006	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.543	75	5775	8.233	ug/l #	7

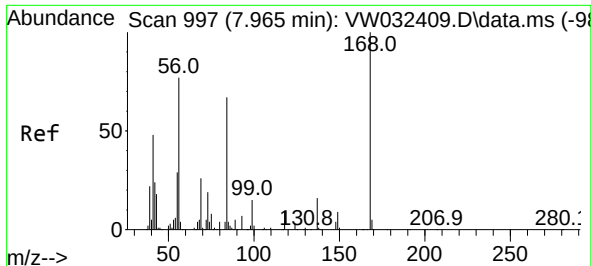
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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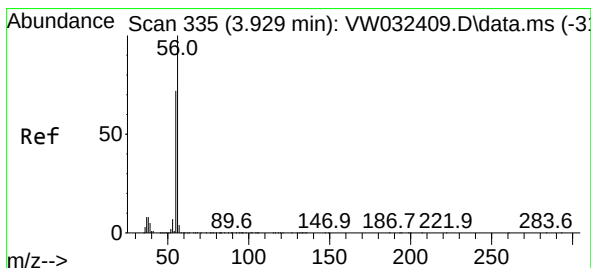
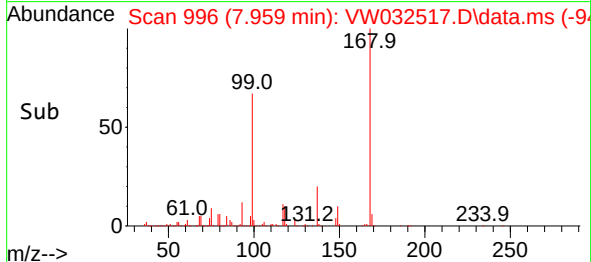
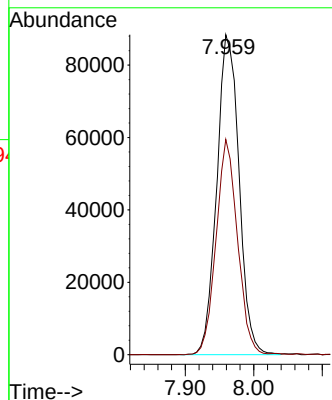
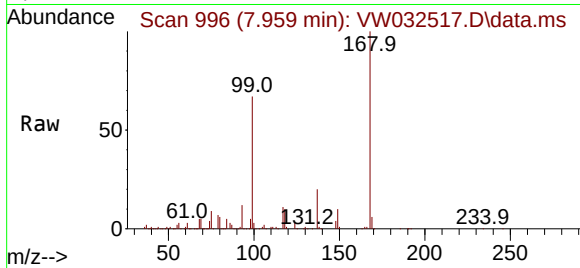




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

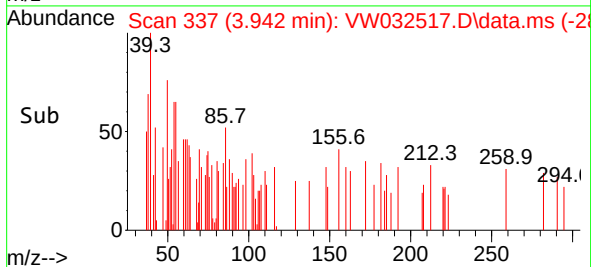
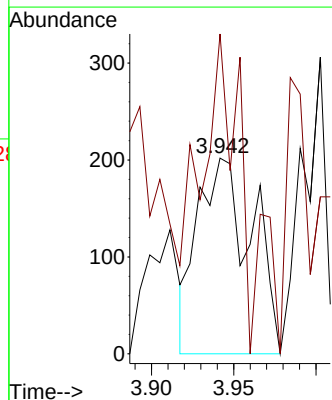
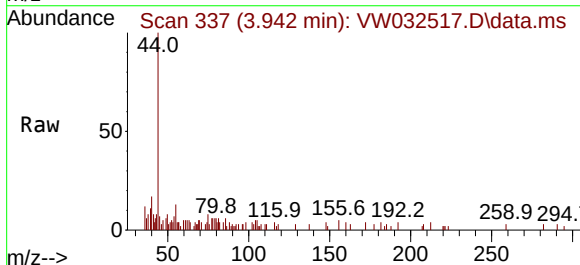
Instrument :
MSVOA_W
ClientSampleId :

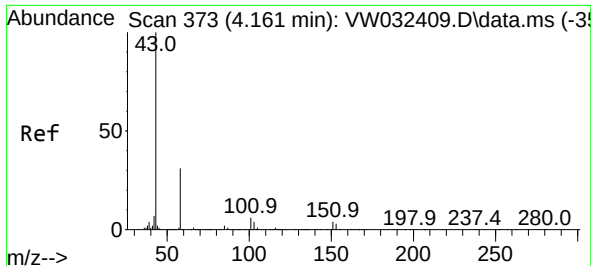
Tgt Ion:168 Resp: 199182
Ion Ratio Lower Upper
168 100
99 67.2 45.4 68.2



#13
Acrolein
Concen: 1.243 ug/l
RT: 3.942 min Scan# 337
Delta R.T. 0.012 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Tgt Ion: 56 Resp: 463
Ion Ratio Lower Upper
56 100
55 68.9 56.3 84.5

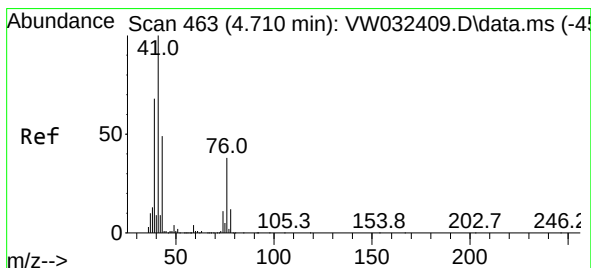
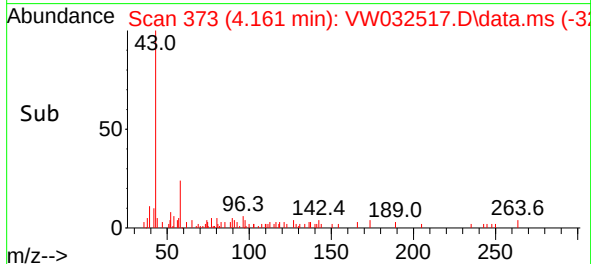
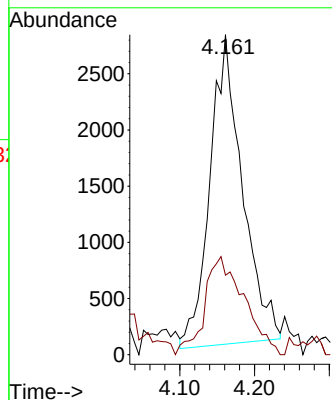
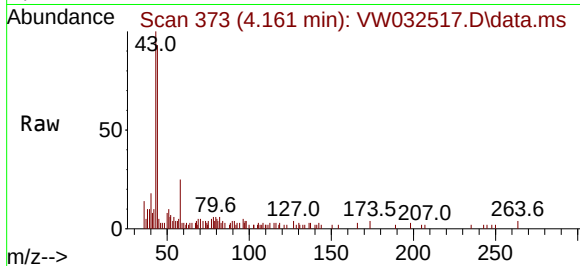




#16
Acetone
Concen: 10.814 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

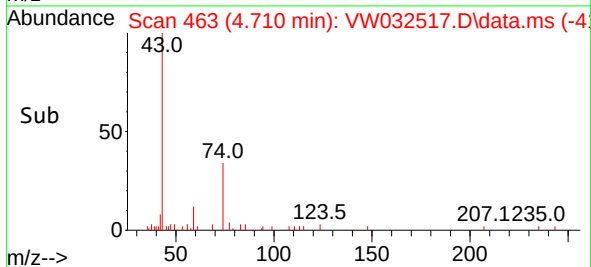
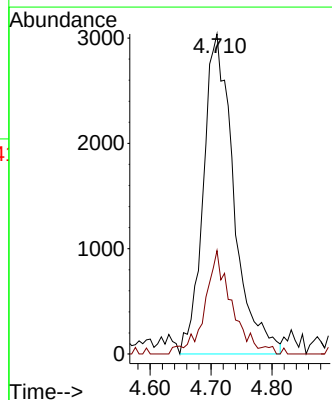
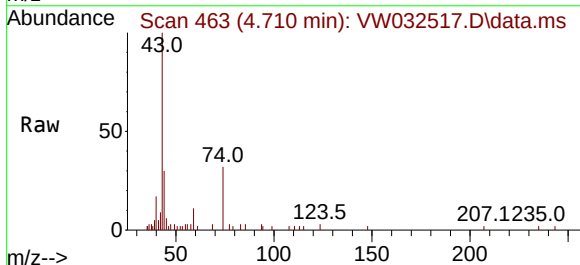
Instrument :
MSVOA_W
ClientSampleId :

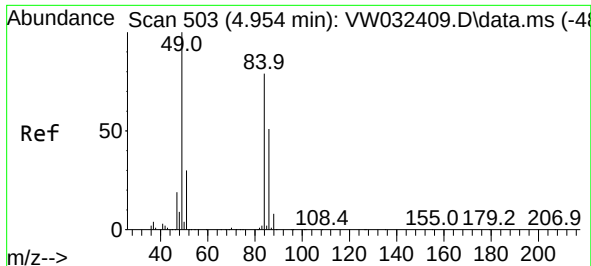
Tgt Ion: 43 Resp: 8308
Ion Ratio Lower Upper
43 100
58 26.2 24.8 37.2



#18
Methyl Acetate
Concen: 5.553 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

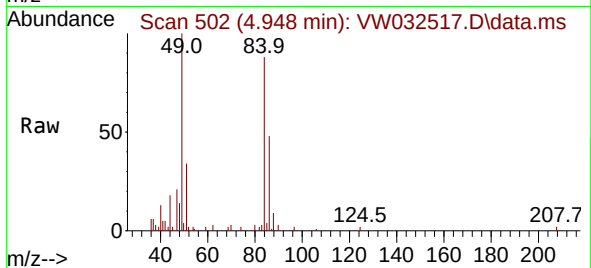
Tgt Ion: 43 Resp: 10564
Ion Ratio Lower Upper
43 100
74 28.1 18.9 28.3



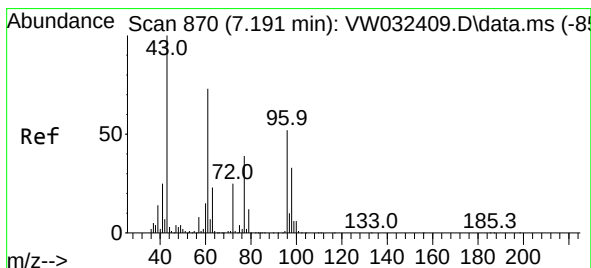
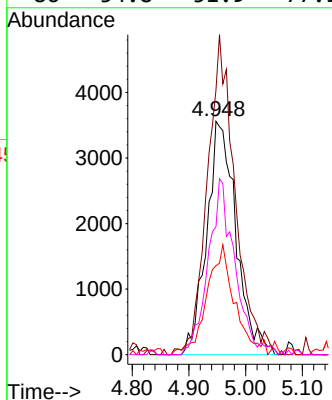
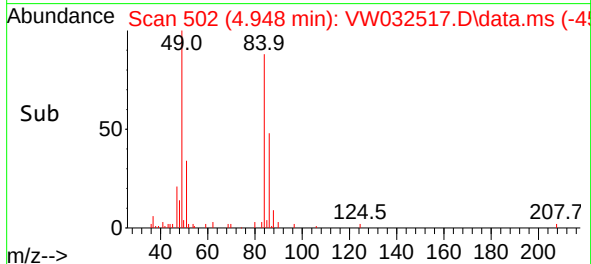


#20
Methylene Chloride
Concen: 4.662 ug/l
RT: 4.948 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Instrument :
MSVOA_W
ClientSampleId :

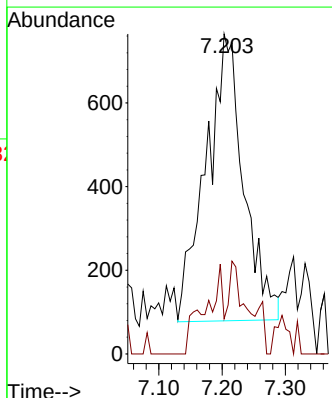
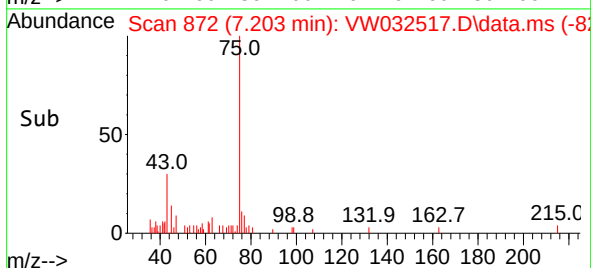
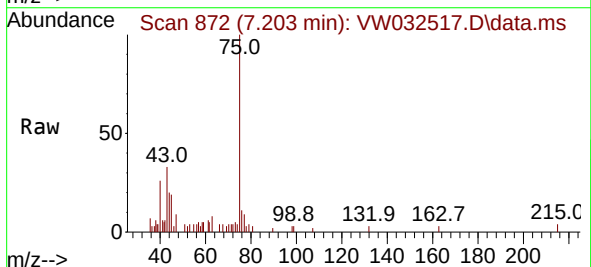


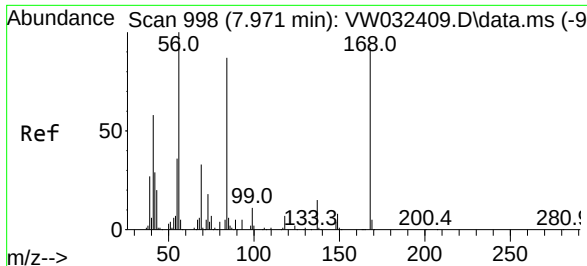
Tgt Ion: 84	Resp: 12810
Ion Ratio	Lower Upper
84 100	
49 113.4	101.5 152.3
51 35.8	30.6 46.0
86 54.8	51.9 77.9



#25
2-Butanone
Concen: 2.506 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

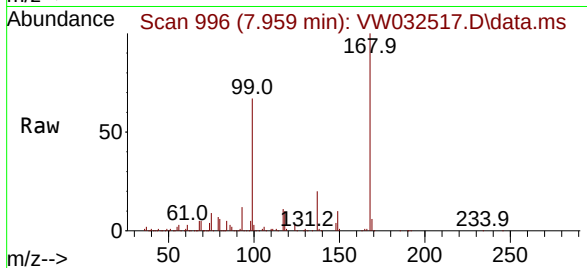
Tgt Ion: 43	Resp: 2836
Ion Ratio	Lower Upper
43 100	
72 12.3	20.0 30.0#



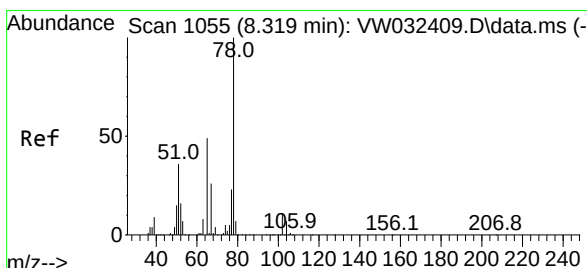
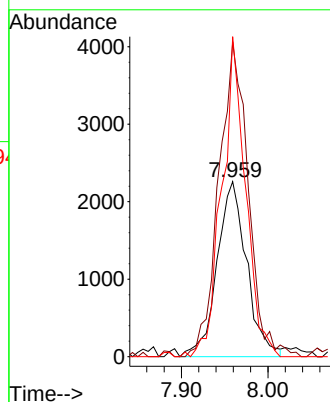
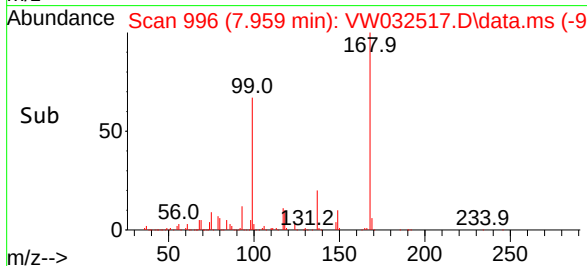


#31
Cyclohexane
Concen: 1.262 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Instrument :
MSVOA_W
ClientSampleId :

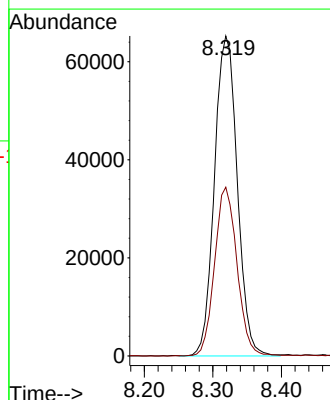
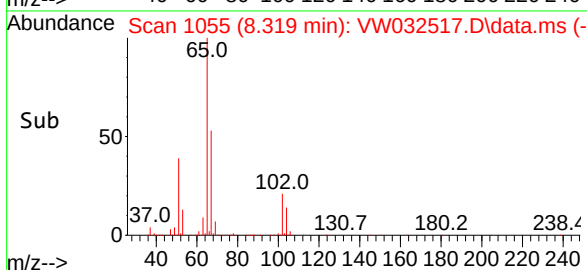
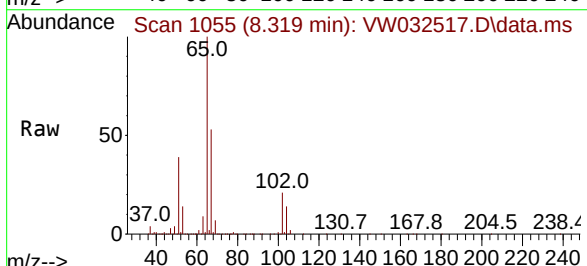


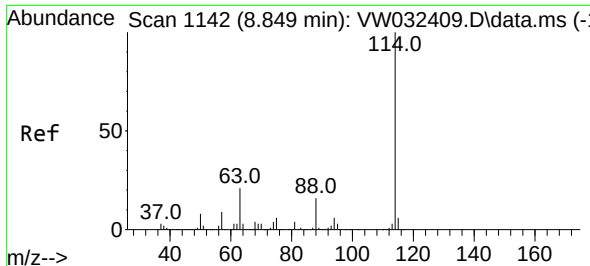
Tgt Ion	Resp	Lower	Upper
56	100		
69	179.7	26.5	39.7#
84	182.8	69.6	104.4#



#33
1,2-Dichloroethane-d4
Concen: 58.822 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Tgt Ion	Resp	Lower	Upper
65	100		
67	51.9	0.0	106.8

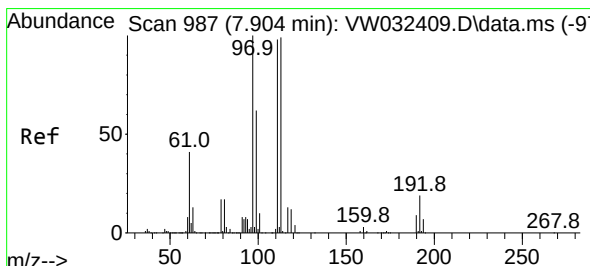
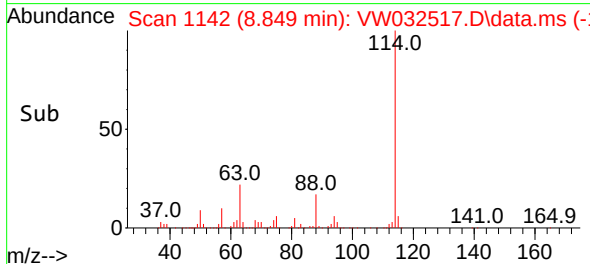
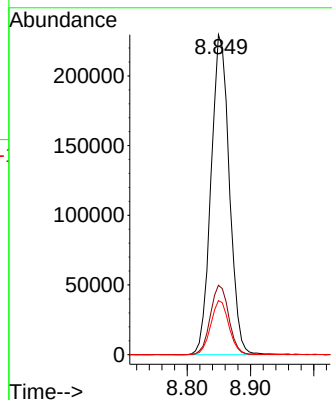
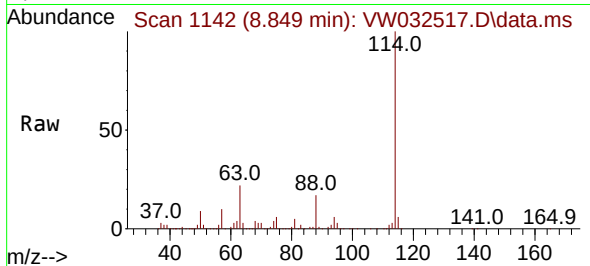




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

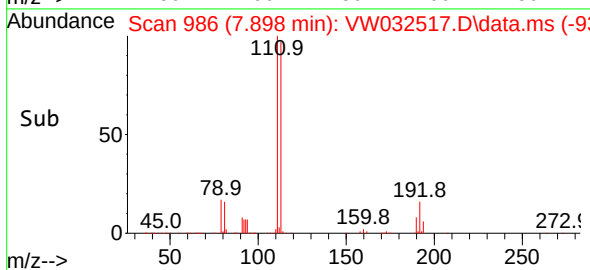
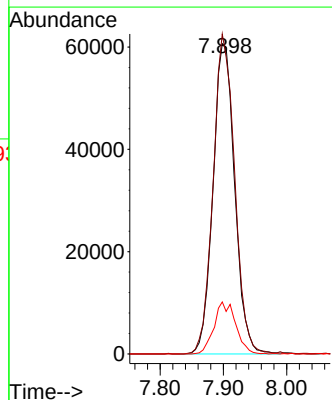
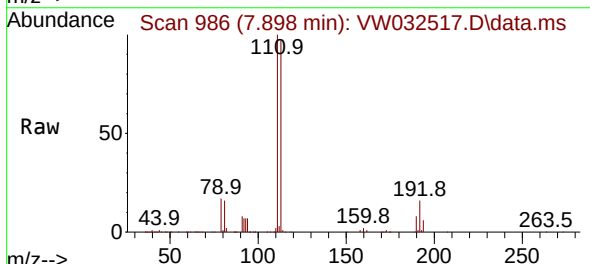
Instrument :
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ClientSampleId :

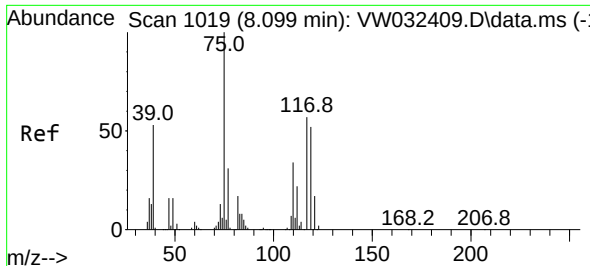
Tgt Ion:114 Resp: 461971
Ion Ratio Lower Upper
114 100
63 21.7 0.0 41.8
88 16.9 0.0 32.6



#35
Dibromofluoromethane
Concen: 52.169 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Tgt Ion:113 Resp: 144295
Ion Ratio Lower Upper
113 100
111 102.5 83.1 124.7
192 16.8 13.4 20.2

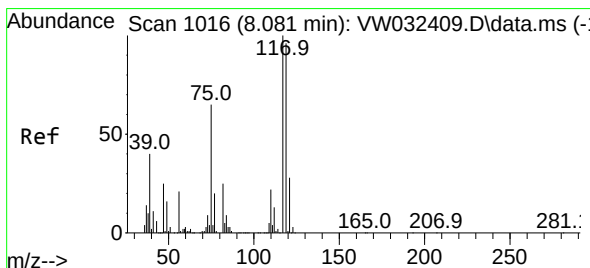
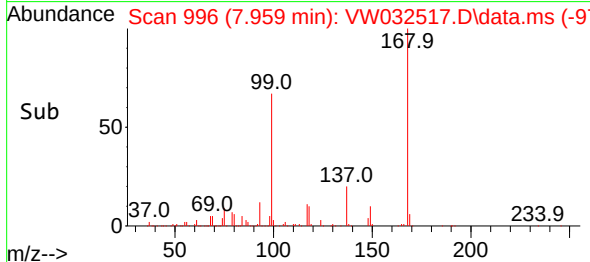
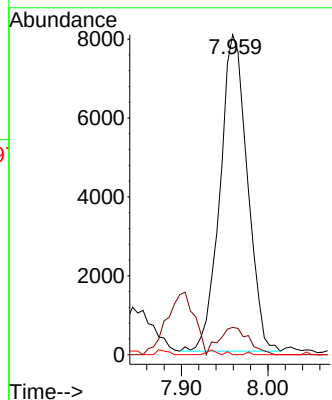
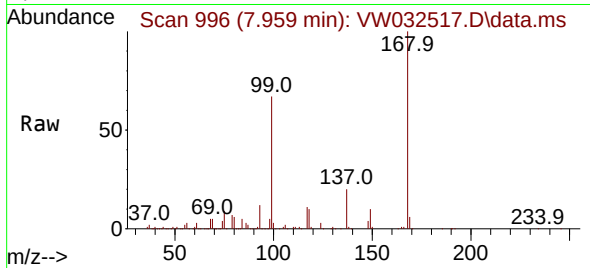




#36
 1,1-Dichloropropene
 Concen: 4.323 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032517.D
 Acq: 20 Nov 2025 12:15

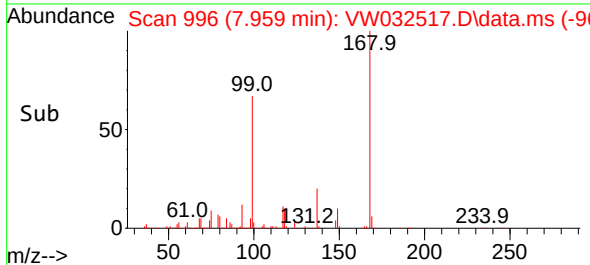
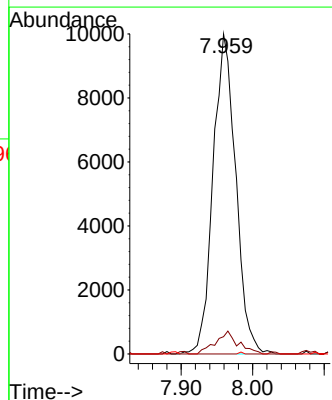
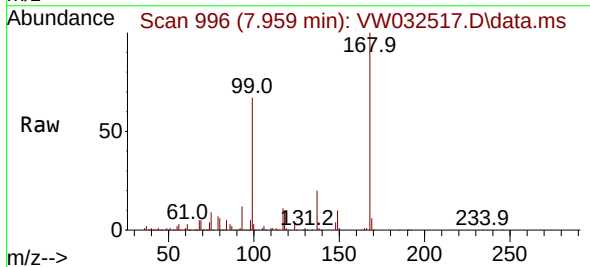
Instrument :
 MSVOA_W
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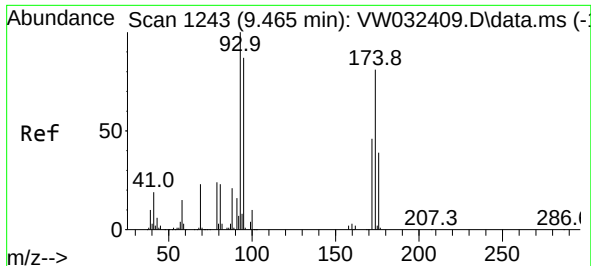
Tgt Ion: 75 Resp: 17616
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.2 51.5#
 77 0.1 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 6.073 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.122 min
 Lab File: VW032517.D
 Acq: 20 Nov 2025 12:15

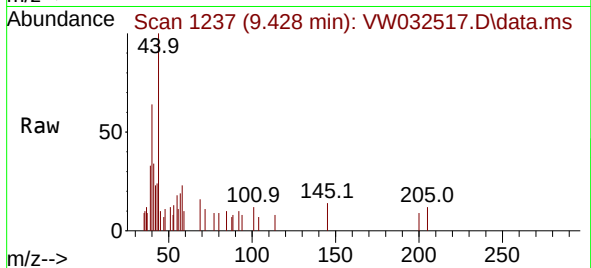
Tgt Ion: 117 Resp: 21990
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.0 115.4#
 121 0.0 22.0 33.0#



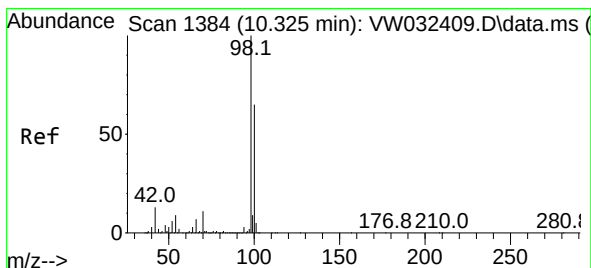
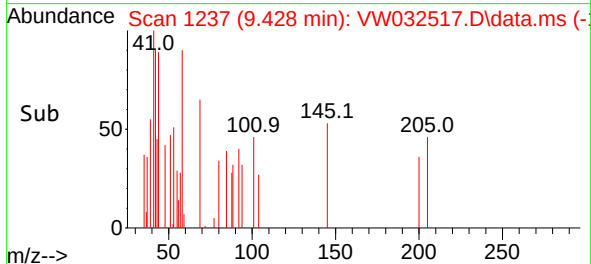
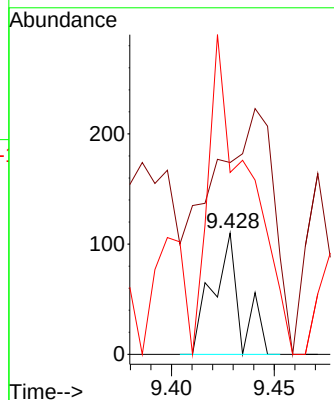


#49
1,4-Dioxane
Concen: 3.888 ug/l
RT: 9.428 min Scan# 1237
Delta R.T. -0.037 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Instrument :
MSVOA_W
ClientSampleId :

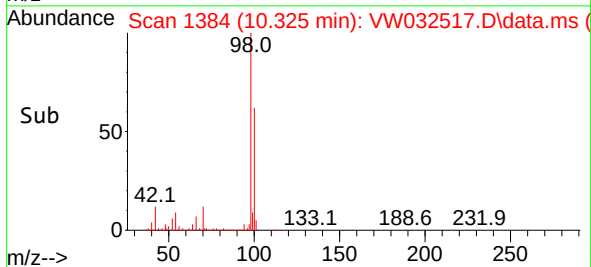
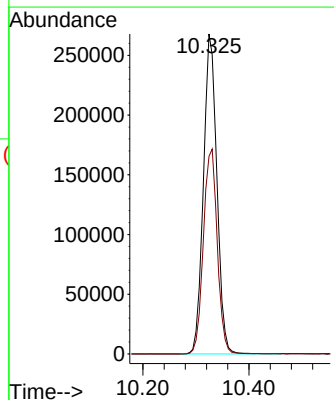
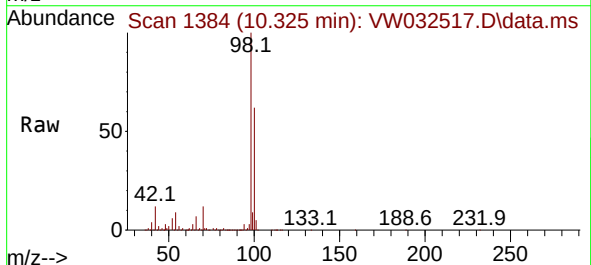


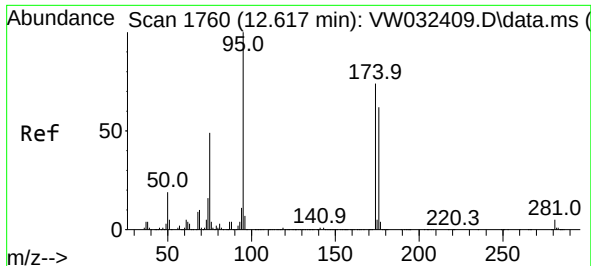
Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 418.3 0.0 0.0#
58 376.9 63.0 94.4#



#50
Toluene-d8
Concen: 44.418 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Tgt Ion: 98 Resp: 471320
Ion Ratio Lower Upper
98 100
100 66.0 53.3 79.9

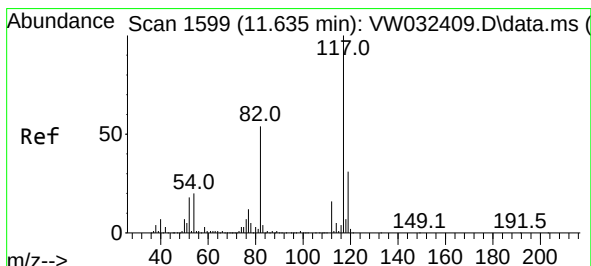
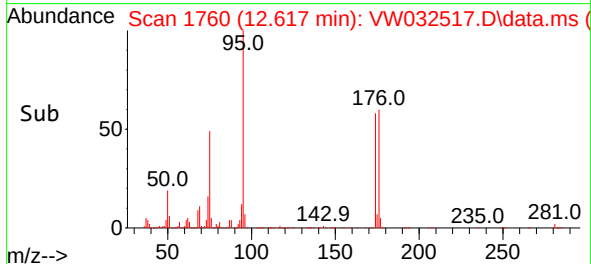
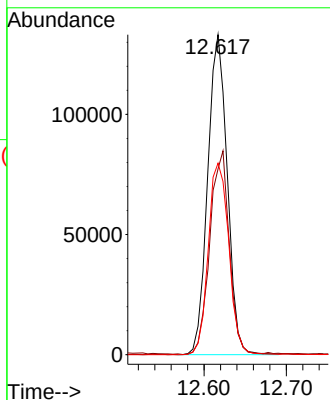
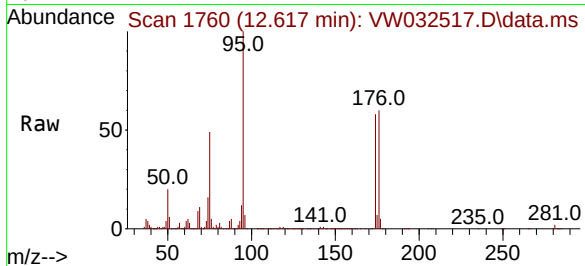




#62
4-Bromofluorobenzene
Concen: 54.949 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

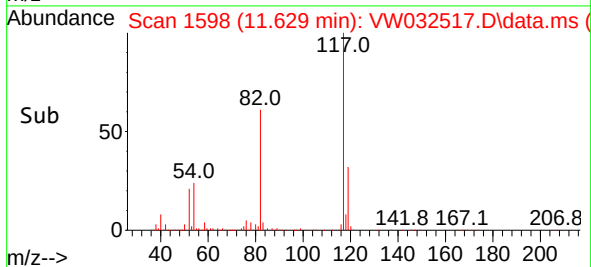
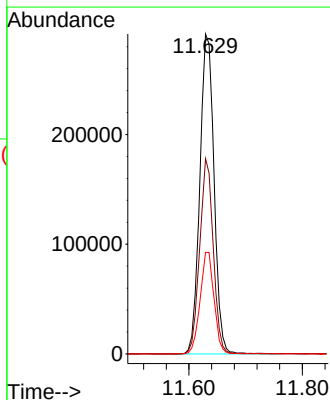
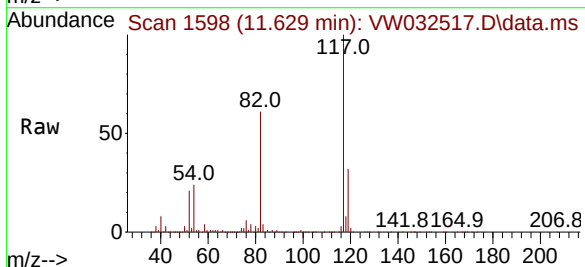
Instrument :
MSVOA_W
ClientSampleId :

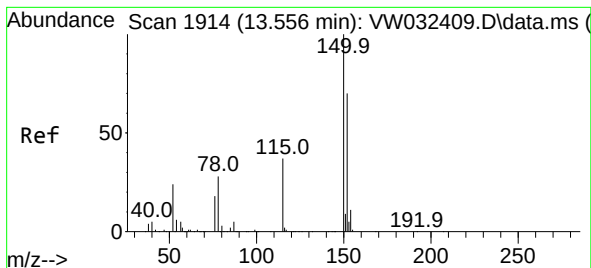
Tgt Ion: 95 Resp: 220258
Ion Ratio Lower Upper
95 100
174 63.3 0.0 135.4
176 62.8 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

Tgt Ion: 117 Resp: 508856
Ion Ratio Lower Upper
117 100
82 61.0 43.0 64.4
119 31.7 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: VW032517.D

Acq: 20 Nov 2025 12:15

Instrument :

MSVOA_W

ClientSampleId :

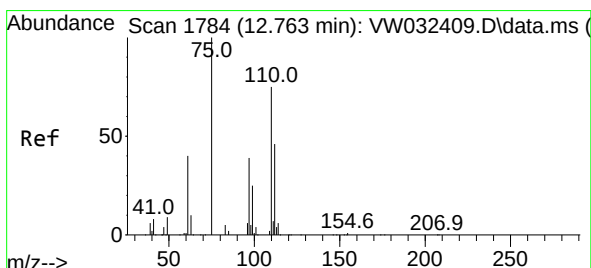
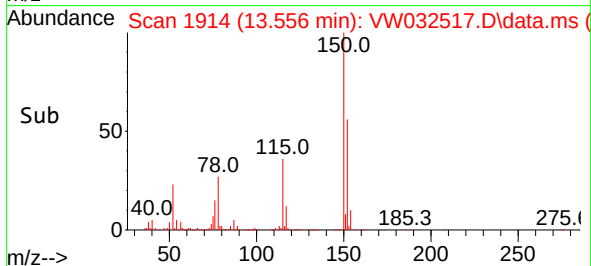
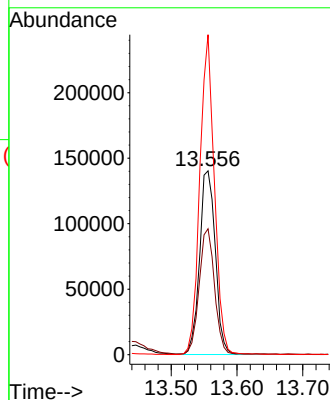
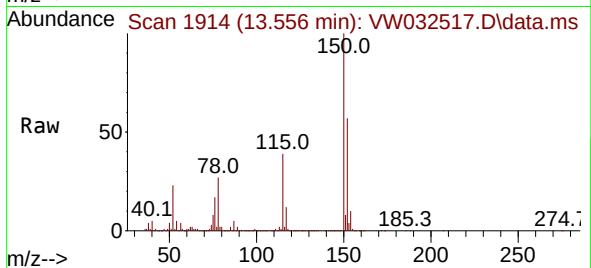
Tgt Ion:152 Resp: 233600

Ion Ratio Lower Upper

152 100

115 66.1 32.8 98.3

150 161.0 0.0 356.6



#76

1,2,3-Trichloropropane

Concen: 2.790 ug/l

RT: 12.855 min Scan# 1799

Delta R.T. 0.092 min

Lab File: VW032517.D

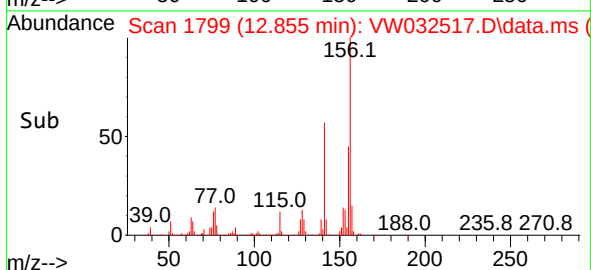
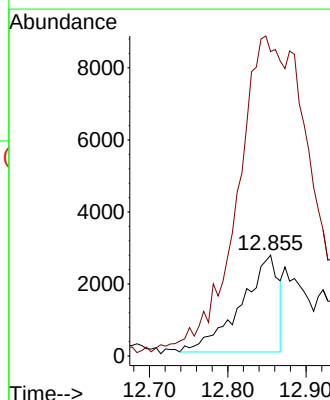
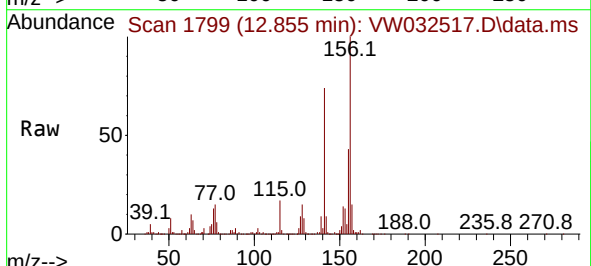
Acq: 20 Nov 2025 12:15

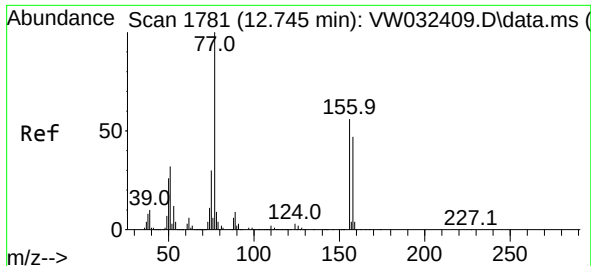
Tgt Ion: 75 Resp: 8935

Ion Ratio Lower Upper

75 100

77 402.0 151.6 454.8

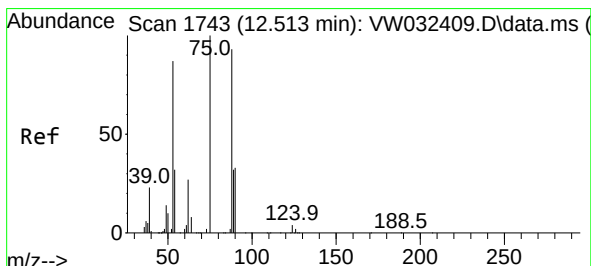
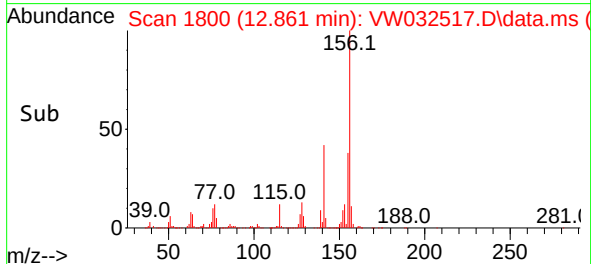
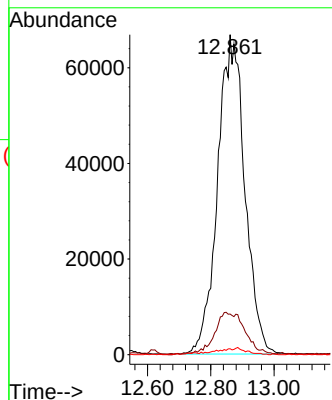
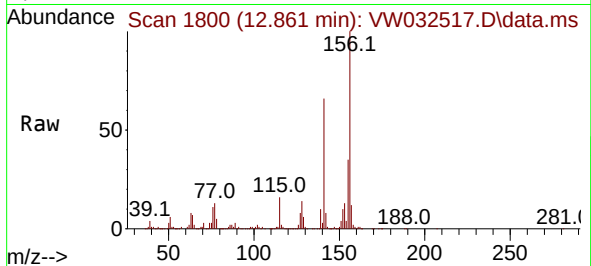




#77
Bromobenzene
Concen: 98.093 ug/l
RT: 12.861 min Scan# 1760
Delta R.T. 0.116 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

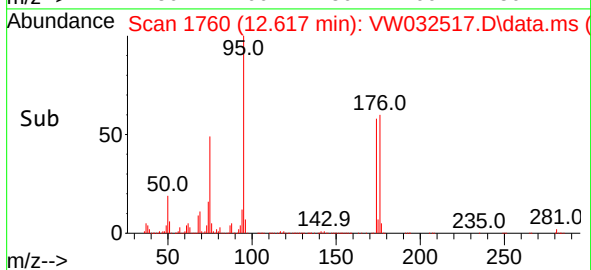
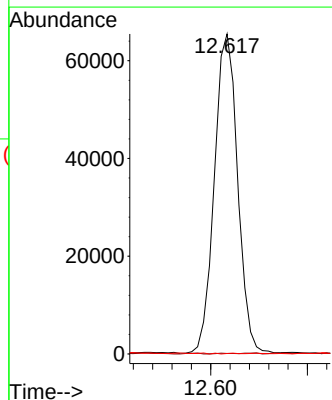
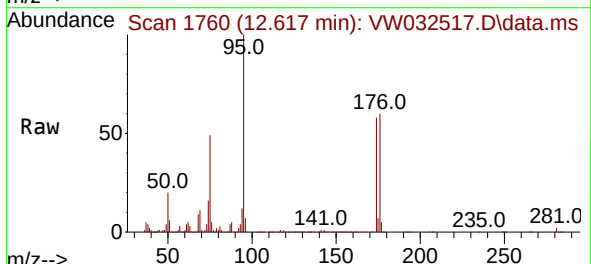
Instrument :
MSVOA_W
ClientSampleId :

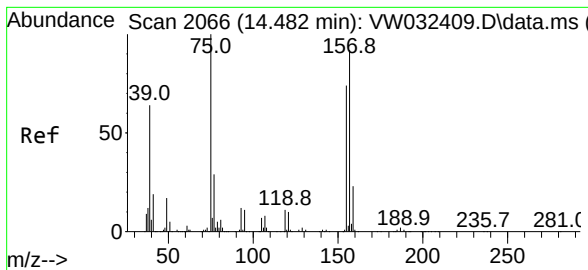
Tgt Ion:156 Resp: 398458
Ion Ratio Lower Upper
156 100
77 9.0 108.0 324.0#
158 0.0 45.1 135.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.006 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032517.D
Acq: 20 Nov 2025 12:15

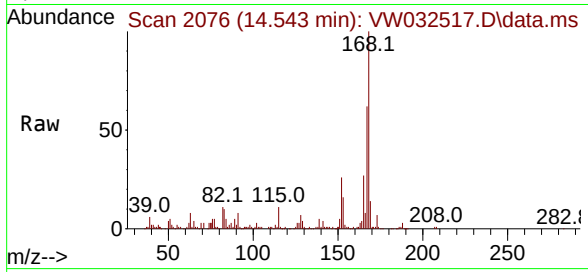
Tgt Ion: 75 Resp: 109086
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 0.1 35.6 53.4#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 8.233 ug/l
 RT: 14.543 min Scan# 2066
 Delta R.T. 0.061 min
 Lab File: VW032517.D
 Acq: 20 Nov 2025 12:15

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:	75	Resp:	5775
Ion Ratio	Lower	Upper	
75	100		
155	0.0	36.2	108.6#
157	0.0	47.8	143.3#

