

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
 Data File : VW032100.D
 Acq On : 14 Aug 2025 17:40
 Operator : SY/MD
 Sample : Q2820-17
 Misc : 6.84g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 88H-E

Quant Time: Aug 18 03:56:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	138538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	294077	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	290017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	141036	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120564	60.172	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	120.340%
35) Dibromofluoromethane	7.898	113	104879	55.204	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	110.400%
50) Toluene-d8	10.325	98	344847	49.075	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	98.140%
62) 4-Bromofluorobenzene	12.617	95	126423	48.821	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	97.640%

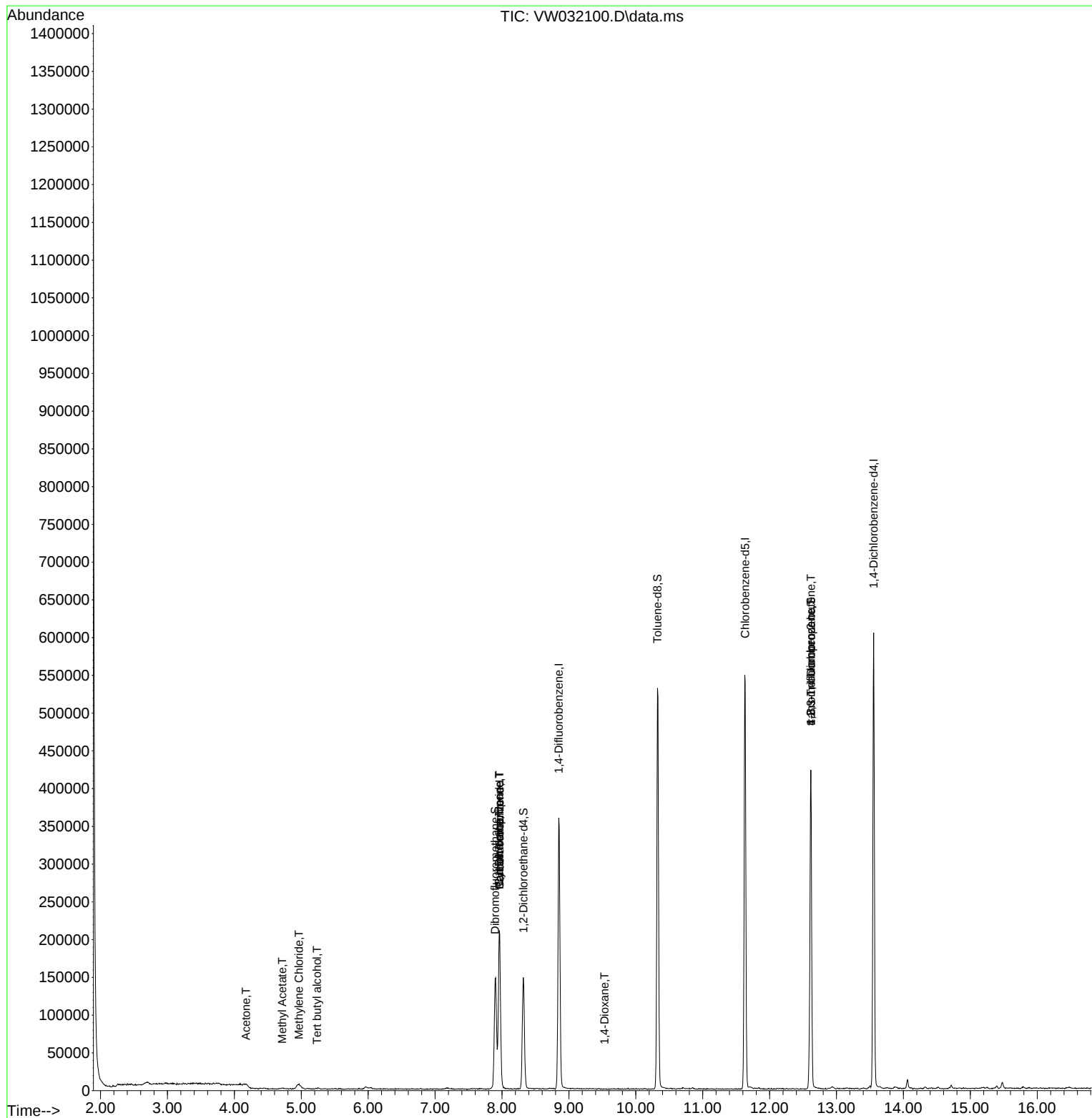
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.234	59	184	1.418	ug/l #	71
16) Acetone	4.173	43	1835	3.956	ug/l #	71
18) Methyl Acetate	4.716	43	1740	1.185	ug/l #	73
20) Methylene Chloride	4.966	84	6126	2.856	ug/l	90
31) Cyclohexane	7.959	56	3995	1.399	ug/l #	44
36) 1,1-Dichloropropene	7.959	75	14029	5.238	ug/l #	51
38) Carbon Tetrachloride	7.965	117	15819	6.120	ug/l #	21
49) 1,4-Dioxane	9.532	88	26	1.549	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	72744	38.003	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	72744	98.385	ug/l #	10

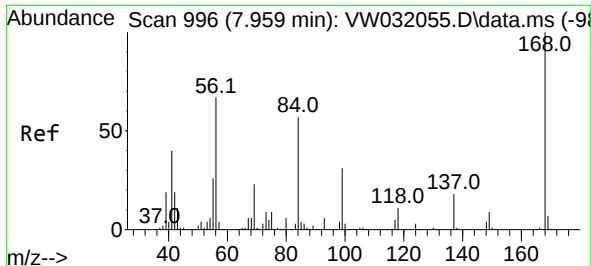
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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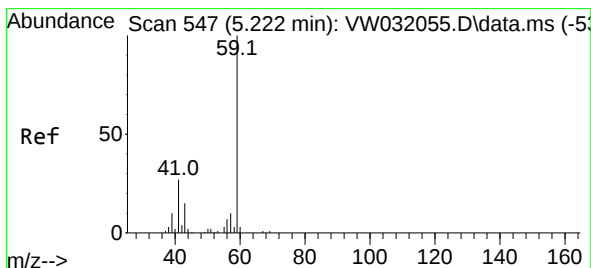
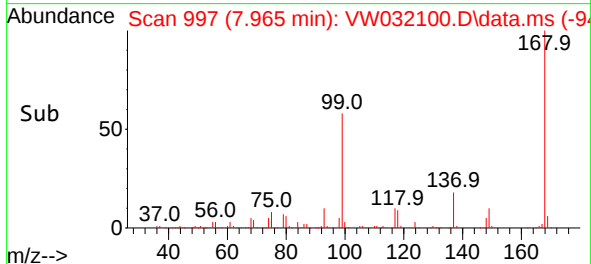
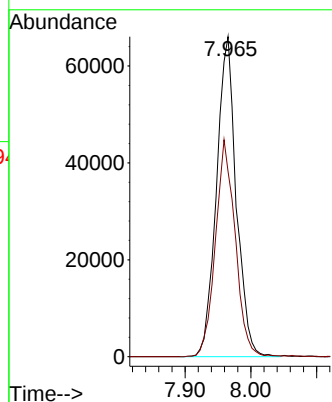
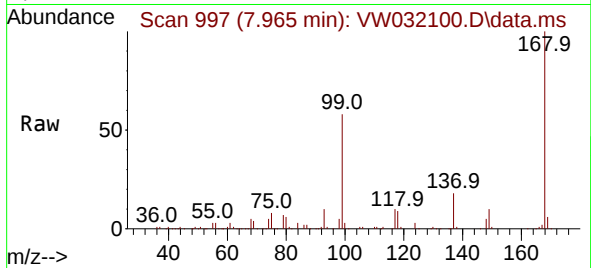




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 996
Delta R.T. 0.006 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

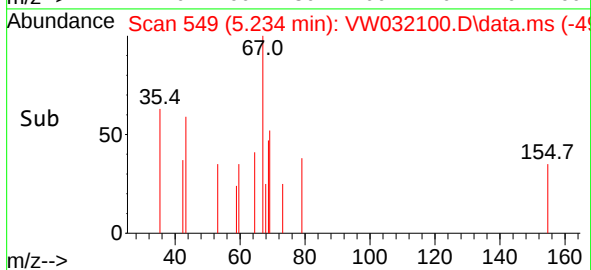
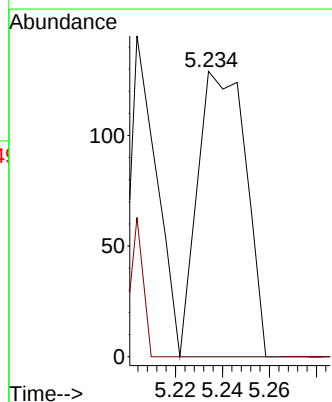
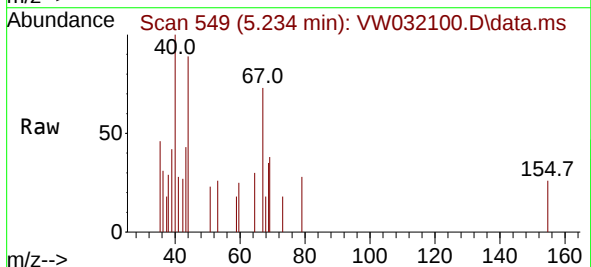
Instrument :
MSVOA_W
ClientSampleId :
88H-E

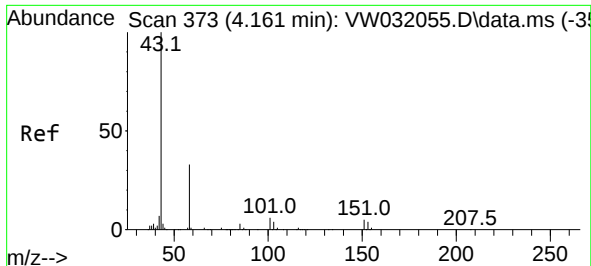
Tgt Ion:168 Resp: 138538
Ion Ratio Lower Upper
168 100
99 57.9 56.0 84.0



#11
Tert butyl alcohol
Concen: 1.418 ug/l
RT: 5.234 min Scan# 549
Delta R.T. 0.012 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion: 59 Resp: 184
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

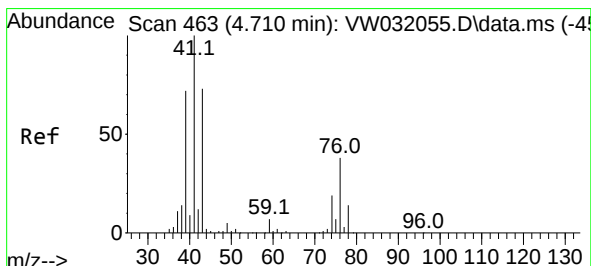
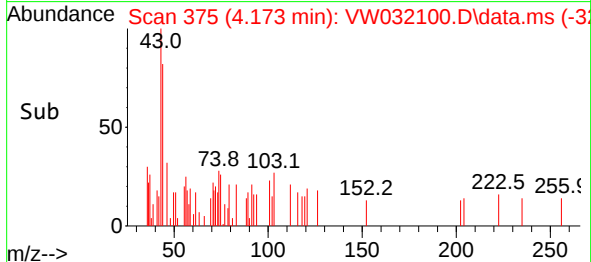
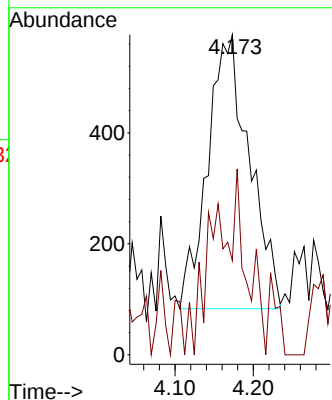
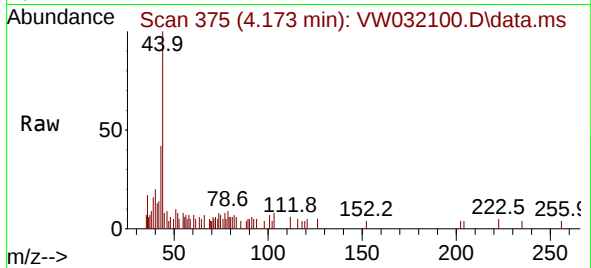




#16
Acetone
Concen: 3.956 ug/l
RT: 4.173 min Scan# 31
Delta R.T. 0.012 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

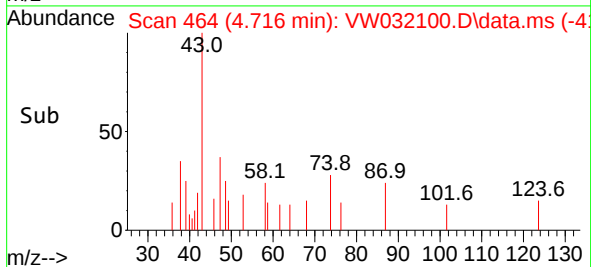
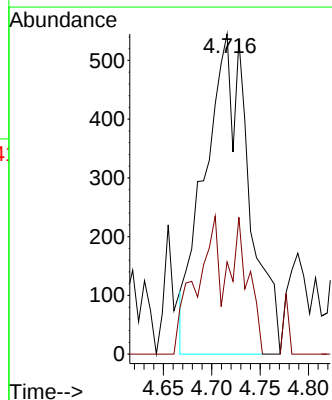
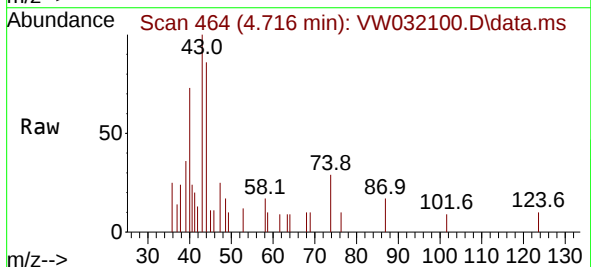
Instrument :
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ClientSampleId :
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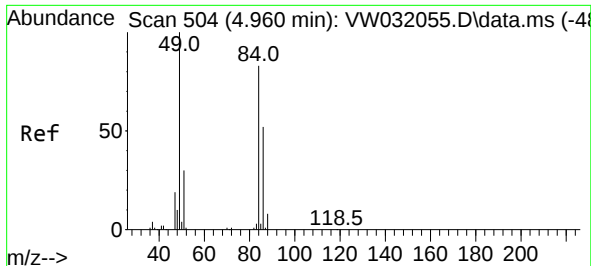
Tgt Ion: 43 Resp: 1835
Ion Ratio Lower Upper
43 100
58 16.8 26.6 39.8#



#18
Methyl Acetate
Concen: 1.185 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion: 43 Resp: 1740
Ion Ratio Lower Upper
43 100
74 12.1 20.6 31.0#

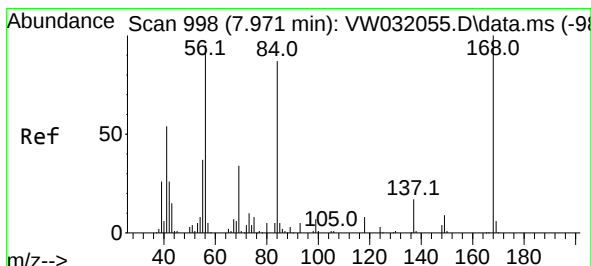
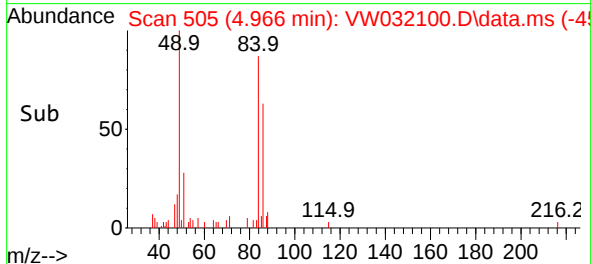
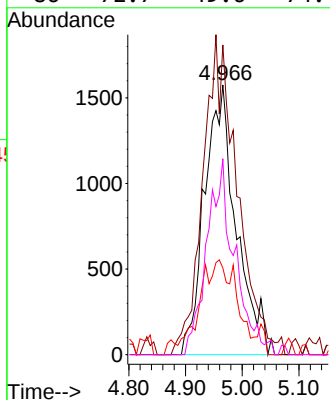
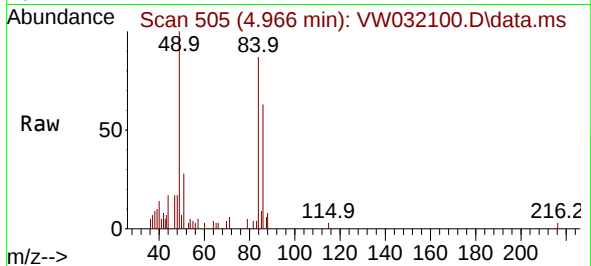




#20
Methylene Chloride
Concen: 2.856 ug/l
RT: 4.966 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

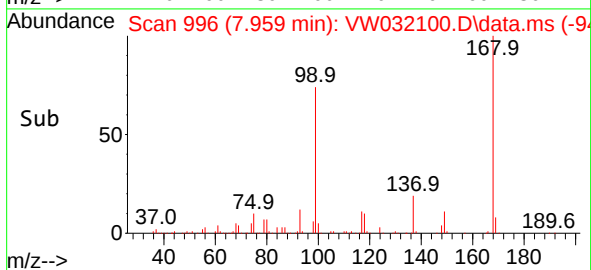
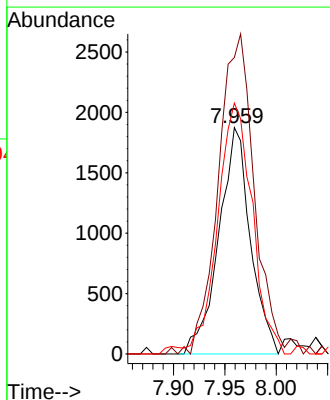
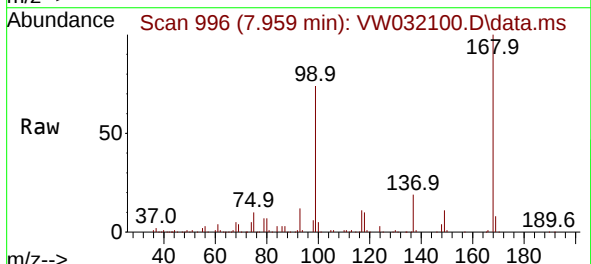
Instrument :
MSVOA_W
ClientSampleId :
88H-E

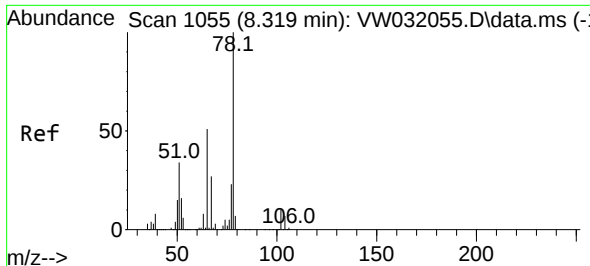
Tgt Ion:	84	Resp:	6126
Ion	Ratio	Lower	Upper
84	100		
49	110.2	95.9	143.9
51	32.2	28.6	43.0
86	72.7	49.6	74.4



#31
Cyclohexane
Concen: 1.399 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion:	56	Resp:	3995
Ion	Ratio	Lower	Upper
56	100		
69	126.2	28.6	42.8#
84	107.9	73.0	109.4





#33

1,2-Dichloroethane-d4

Concen: 60.172 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032100.D

Acq: 14 Aug 2025 17:40

Instrument :

MSVOA_W

ClientSampleId :

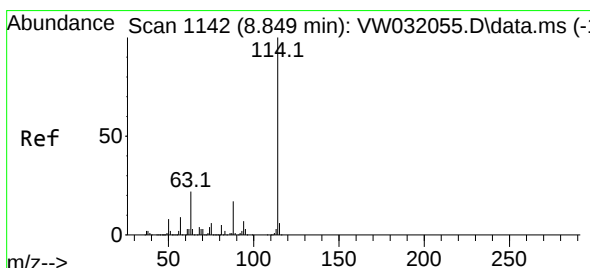
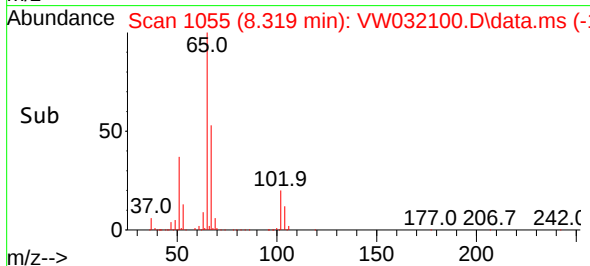
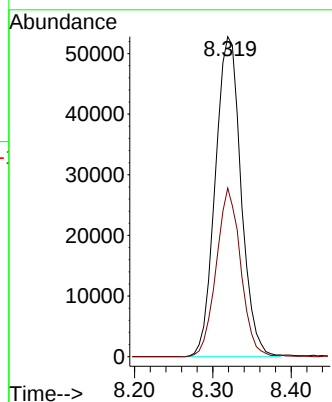
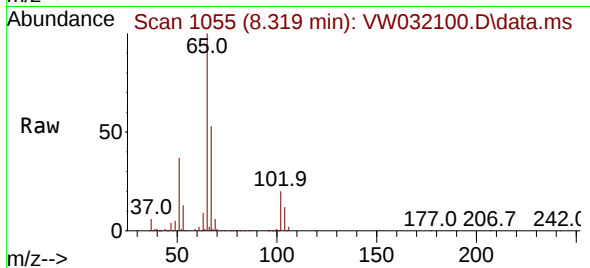
88H-E

Tgt Ion: 65 Resp: 120564

Ion Ratio Lower Upper

65 100

67 50.1 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VW032100.D

Acq: 14 Aug 2025 17:40

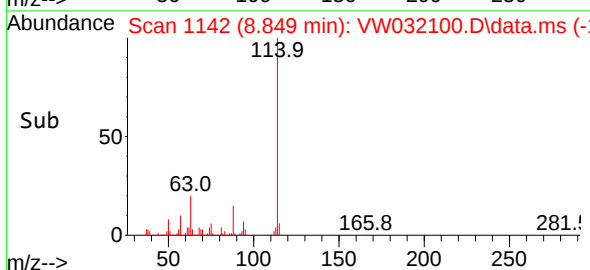
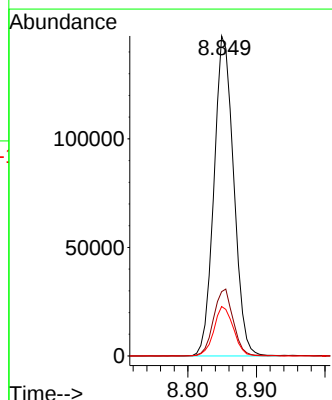
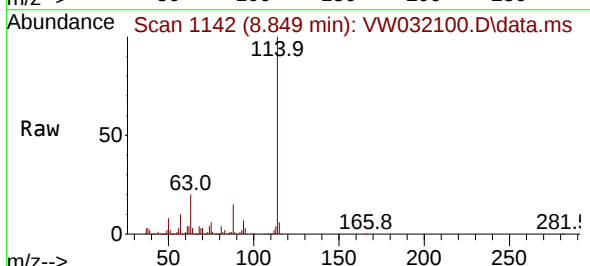
Tgt Ion: 114 Resp: 294077

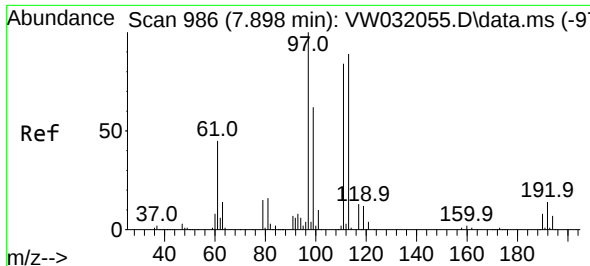
Ion Ratio Lower Upper

114 100

63 20.1 0.0 43.0

88 15.5 0.0 33.8

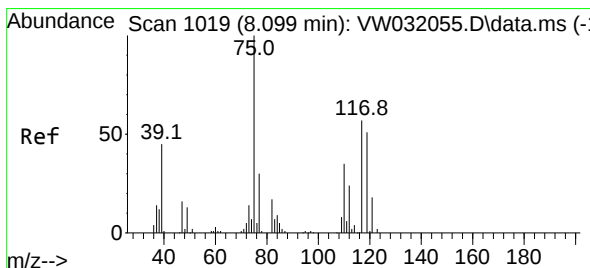
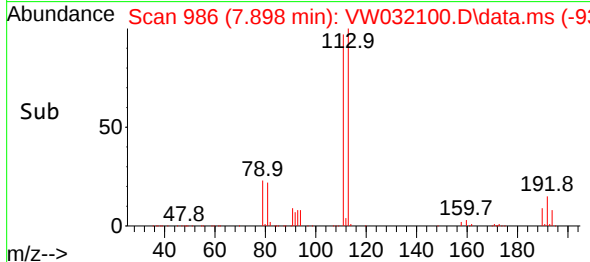
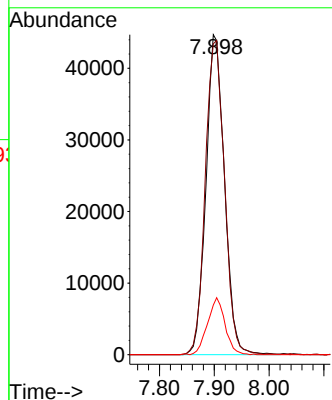
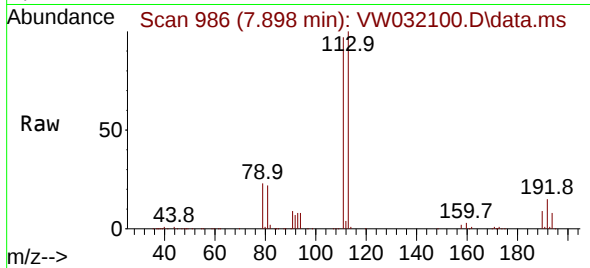




#35
 Dibromofluoromethane
 Concen: 55.204 ug/l
 RT: 7.898 min Scan# 911
 Delta R.T. -0.000 min
 Lab File: VW032100.D
 Acq: 14 Aug 2025 17:40

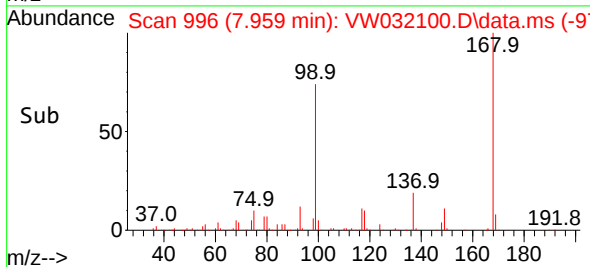
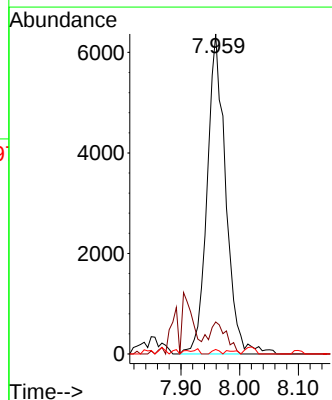
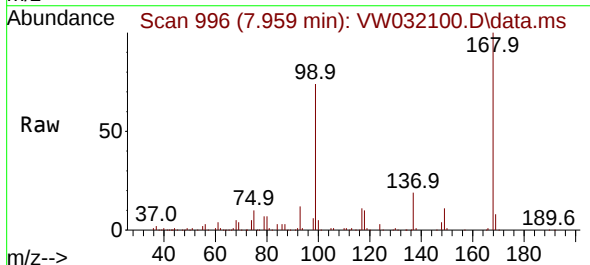
Instrument :
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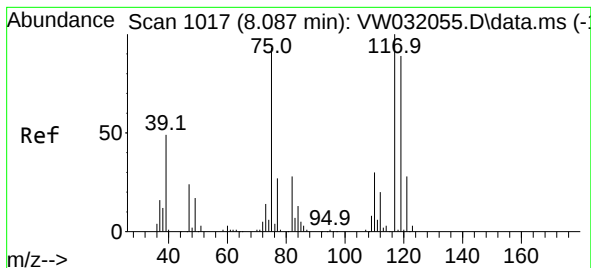
Tgt Ion:113 Resp: 104879
 Ion Ratio Lower Upper
 113 100
 111 101.4 80.1 120.1
 192 16.9 13.1 19.7



#36
 1,1-Dichloropropene
 Concen: 5.238 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032100.D
 Acq: 14 Aug 2025 17:40

Tgt Ion: 75 Resp: 14029
 Ion Ratio Lower Upper
 75 100
 110 9.8 17.4 52.2#
 77 0.5 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.120 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.122 min

Lab File: VW032100.D

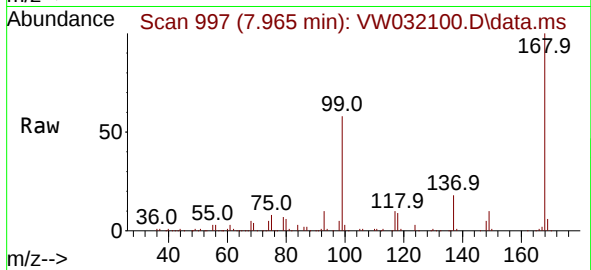
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Instrument :

MSVOA_W

ClientSampleId :

88H-E



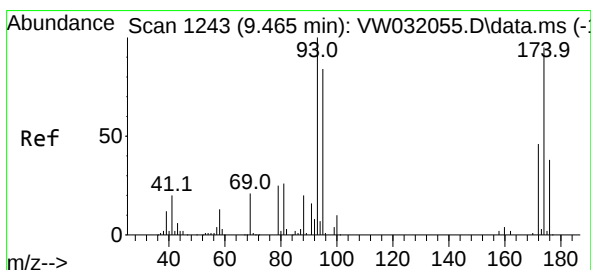
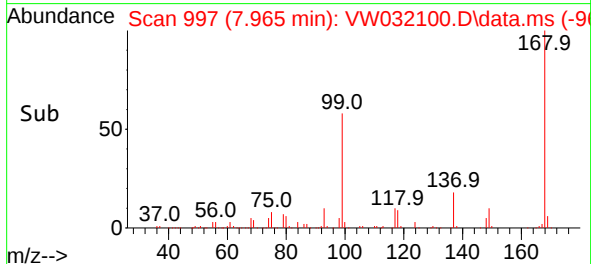
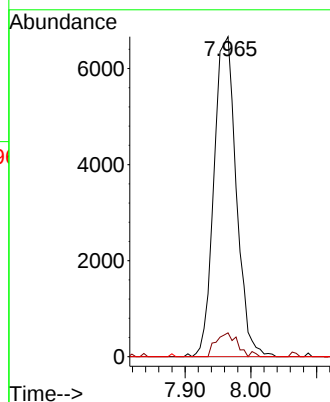
Tgt Ion:117 Resp: 15819

Ion Ratio Lower Upper

117 100

119 7.5 71.4 107.2#

121 0.0 22.3 33.5#



#49

1,4-Dioxane

Concen: 1.549 ug/l

RT: 9.532 min Scan# 1254

Delta R.T. 0.067 min

Lab File: VW032100.D

Acq: 14 Aug 2025 17:40

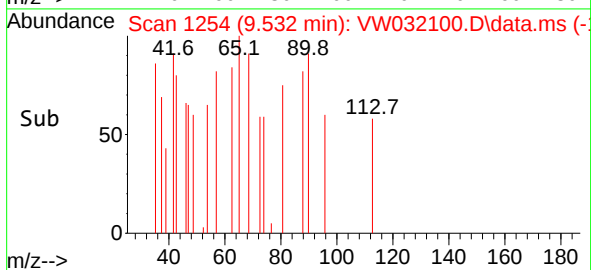
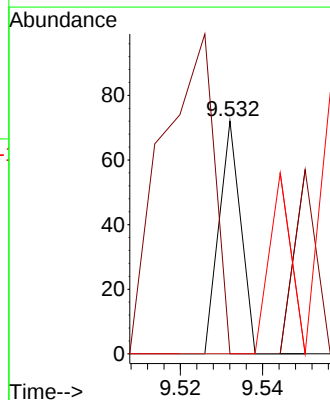
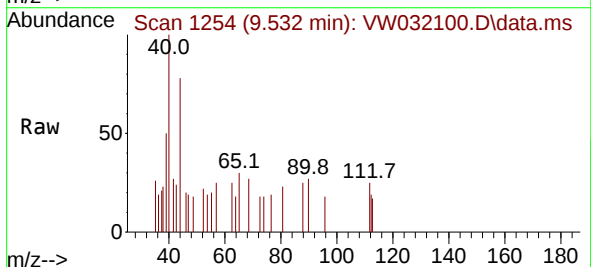
Tgt Ion: 88 Resp: 26

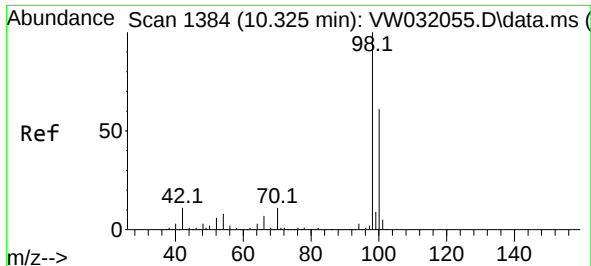
Ion Ratio Lower Upper

88 100

43 334.6 20.6 30.8#

58 76.9 60.4 90.6

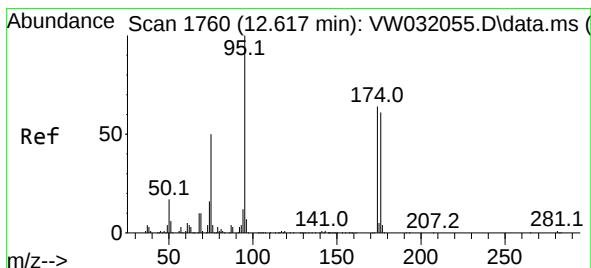
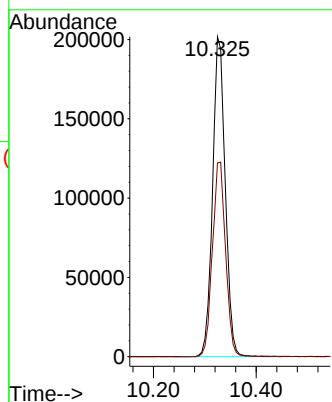
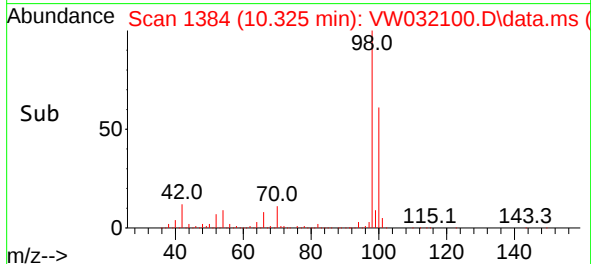
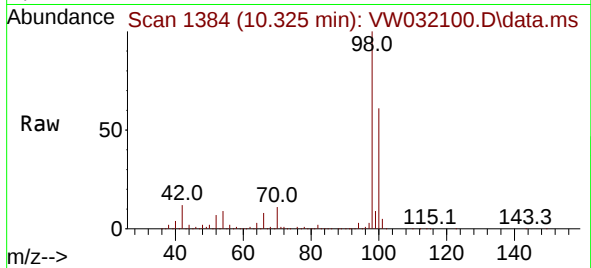




#50
Toluene-d8
Concen: 49.075 ug/l
RT: 10.325 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

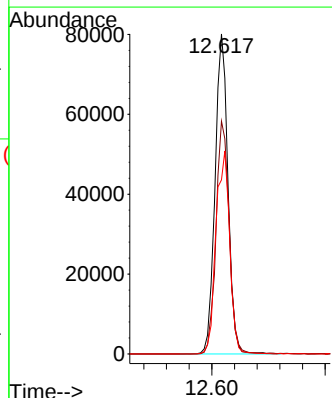
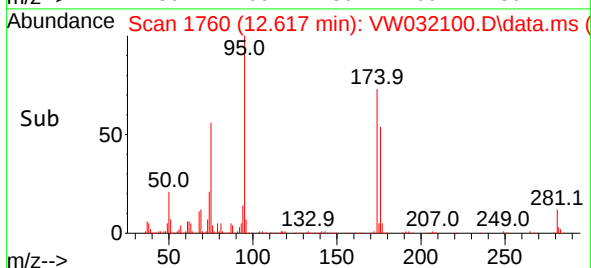
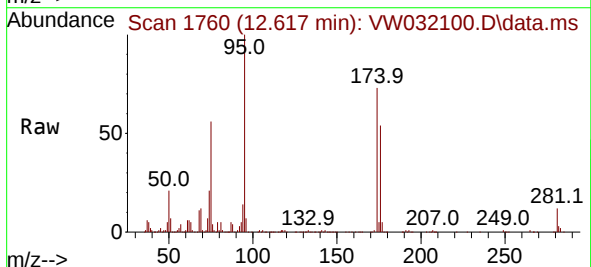
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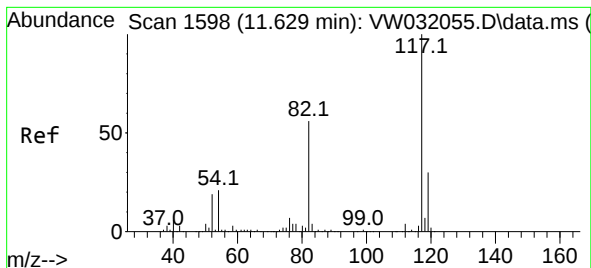
Tgt Ion: 98 Resp: 344847
Ion Ratio Lower Upper
98 100
100 63.3 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 48.821 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion: 95 Resp: 126423
Ion Ratio Lower Upper
95 100
174 74.1 0.0 129.0
176 67.6 0.0 124.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032100.D

Acq: 14 Aug 2025 17:40

Instrument :

MSVOA_W

ClientSampleId :

88H-E

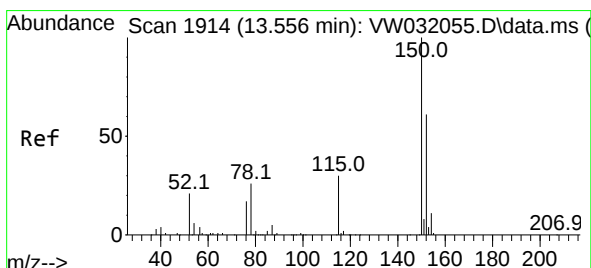
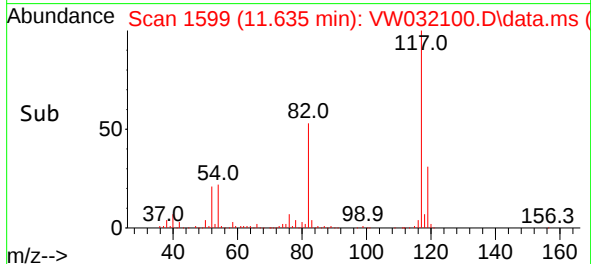
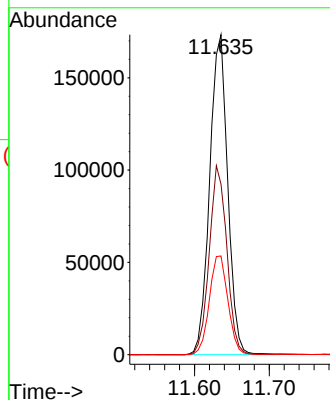
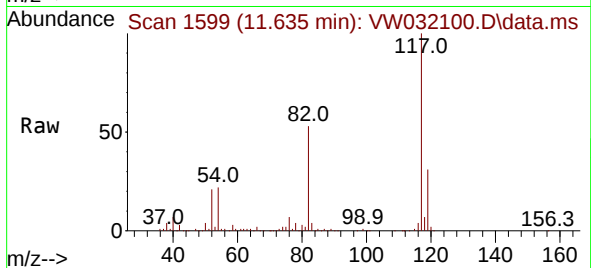
Tgt Ion:117 Resp: 290017

Ion Ratio Lower Upper

117 100

82 53.3 45.0 67.4

119 30.8 24.2 36.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032100.D

Acq: 14 Aug 2025 17:40

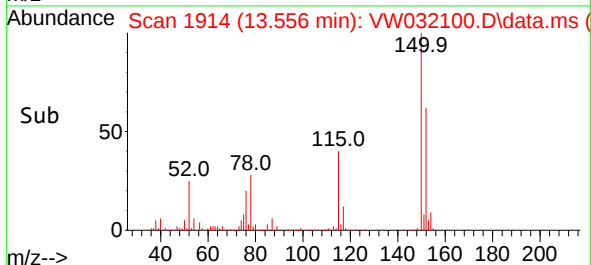
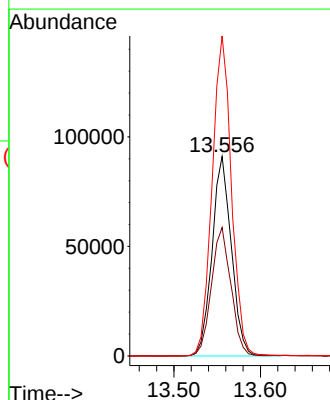
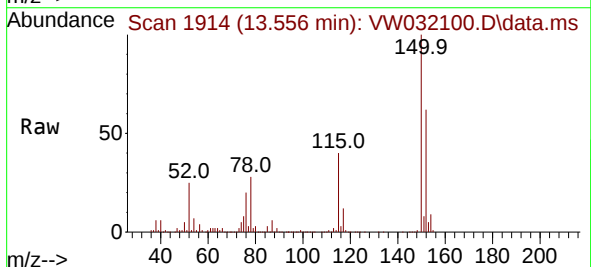
Tgt Ion:152 Resp: 141036

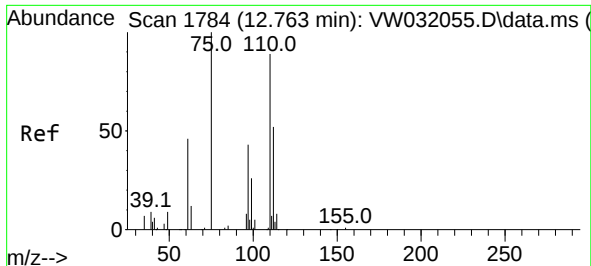
Ion Ratio Lower Upper

152 100

115 65.1 32.6 97.8

150 160.9 0.0 359.4

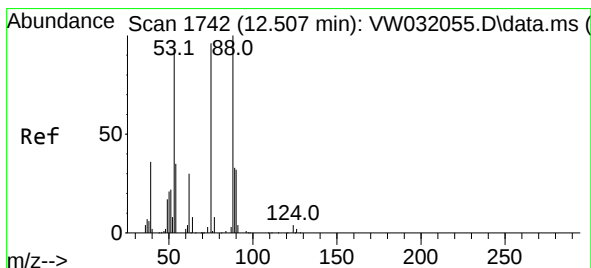
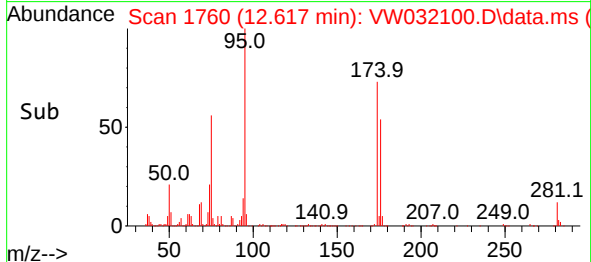
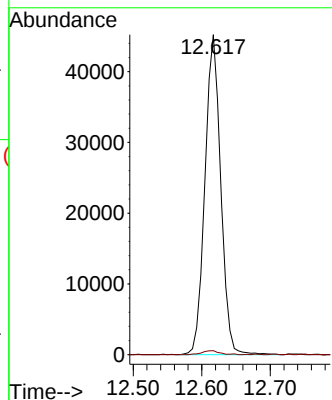
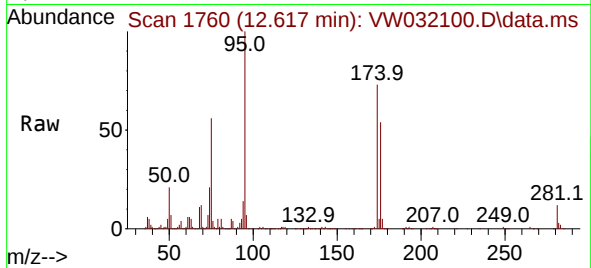




#76
1,2,3-Trichloropropane
Concen: 38.003 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Tgt Ion: 75 Resp: 72744
Ion Ratio Lower Upper
75 100
77 1.4 123.5 370.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 98.385 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.110 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion: 75 Resp: 72744
Ion Ratio Lower Upper
75 100
53 0.5 81.0 121.6#
89 0.8 37.3 55.9#

