

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112625\
 Data File : VW032552.D
 Acq On : 26 Nov 2025 18:17
 Operator : SY/MD
 Sample : Q3719-13
 Misc : 5.39g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 27 00:31:28 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)

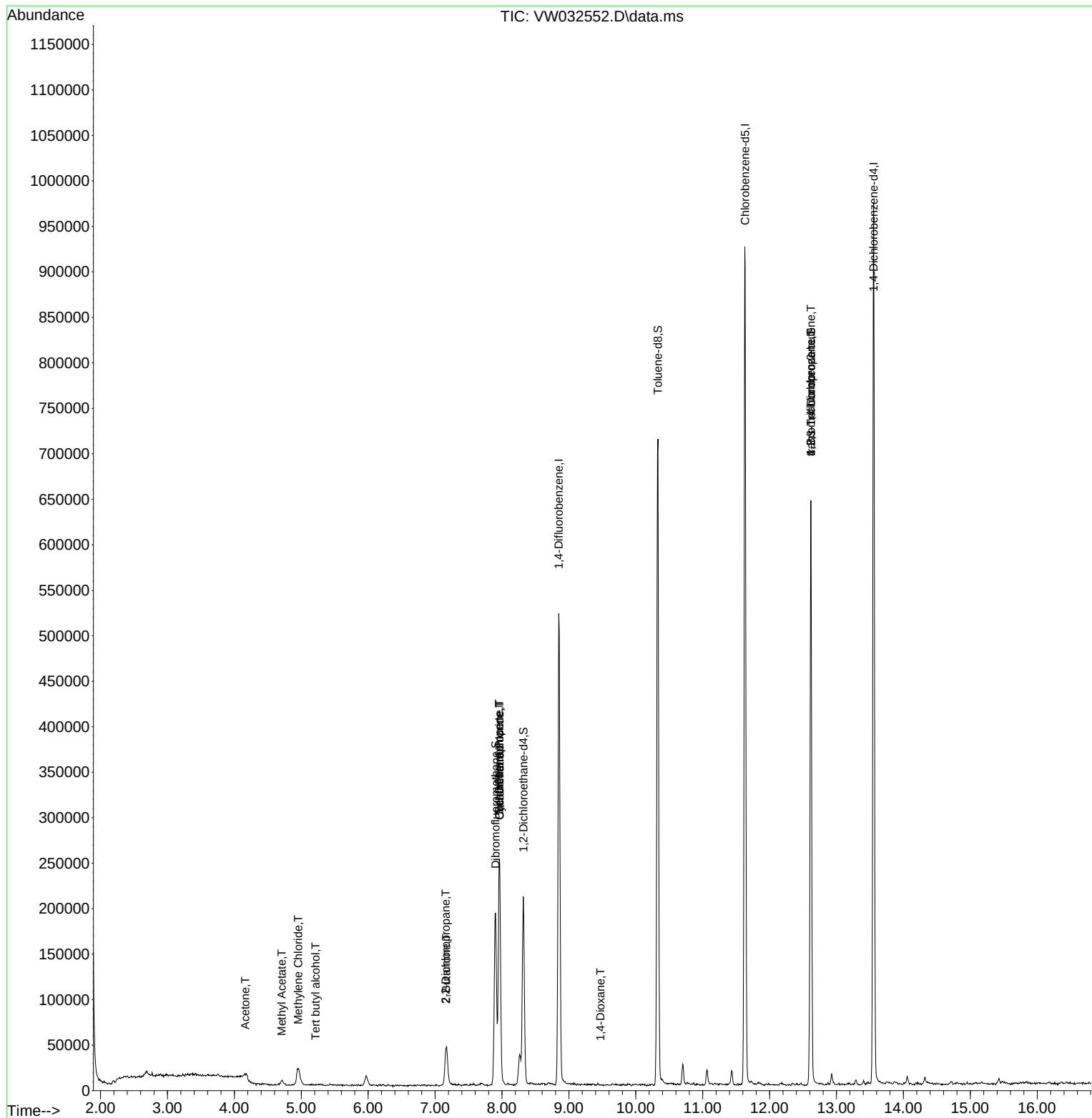
Internal Standards						
1) Pentafluorobenzene	7.959	168	171429	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.849	114	419256	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	506374	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	251247	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	165549	74.905	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	149.800%	
35) Dibromofluoromethane	7.904	113	139819	55.701	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	111.400%	
50) Toluene-d8	10.330	98	473523	49.172	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	98.340%	
62) 4-Bromofluorobenzene	12.617	95	219295	60.282	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	120.560%	
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.215	59	529	2.768	ug/l	98
16) Acetone	4.161	43	7681	11.616	ug/l	95
18) Methyl Acetate	4.709	43	10147	6.197	ug/l	99
20) Methylene Chloride	4.953	84	16493	6.975	ug/l	88
25) 2-Butanone	7.166	43	3127	3.210	ug/l #	52
26) 2,2-Dichloropropane	7.160	77	3552	1.612	ug/l #	55
31) Cyclohexane	7.965	56	5702	1.559	ug/l #	14
36) 1,1-Dichloropropene	7.959	75	17318	4.682	ug/l #	50
38) Carbon Tetrachloride	7.965	117	19265	5.862	ug/l #	16
49) 1,4-Dioxane	9.471	88	46	1.895	ug/l #	10
76) 1,2,3-Trichloropropane	12.617	75	111809	32.455	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	111809	74.337	ug/l #	11

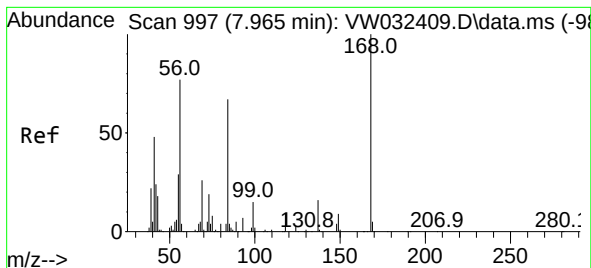
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.959 min Scan# 997

Delta R.T. -0.006 min

Lab File: VW032552.D

Acq: 26 Nov 2025 18:17

Instrument :

MSVOA_W

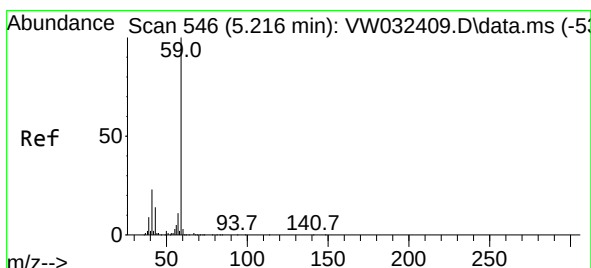
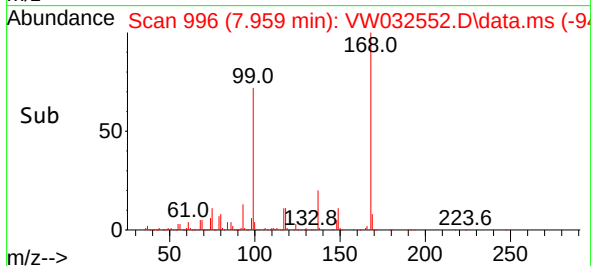
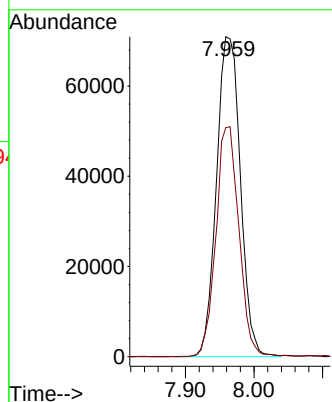
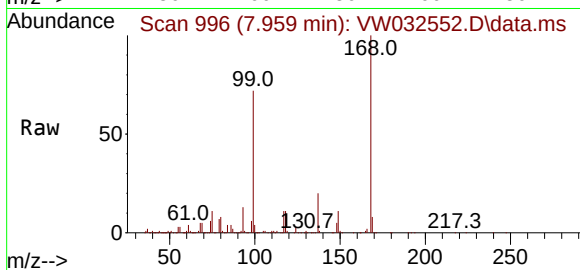
ClientSampleId :

Tgt Ion:168 Resp: 171429

Ion Ratio Lower Upper

168 100

99 71.5 45.4 68.2#



#11

Tert butyl alcohol

Concen: 2.768 ug/l

RT: 5.215 min Scan# 546

Delta R.T. -0.000 min

Lab File: VW032552.D

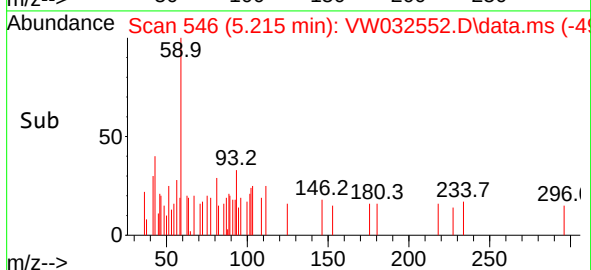
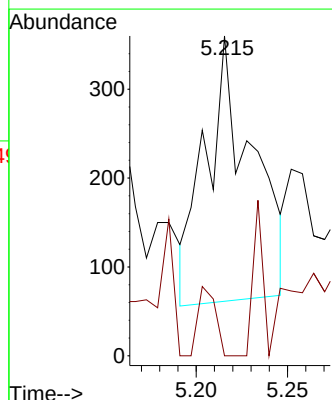
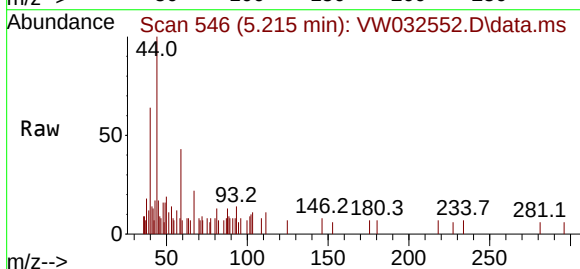
Acq: 26 Nov 2025 18:17

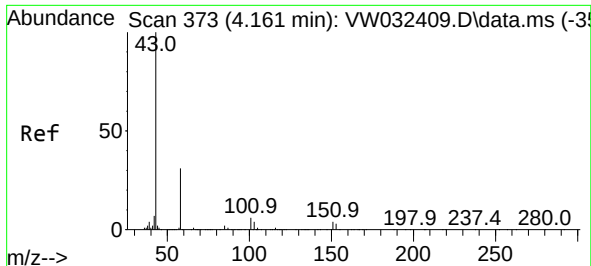
Tgt Ion: 59 Resp: 529

Ion Ratio Lower Upper

59 100

57 9.8 8.6 12.8

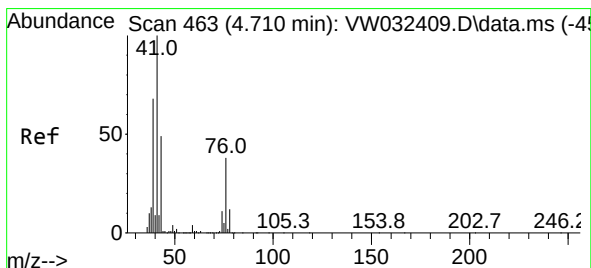
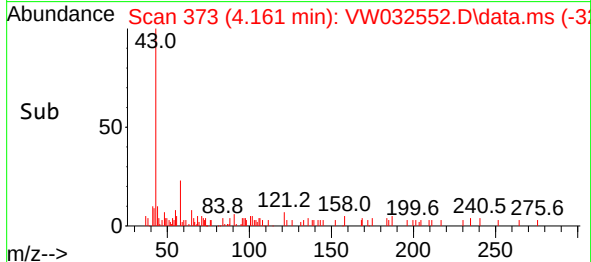
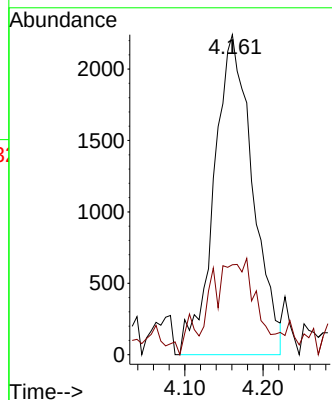
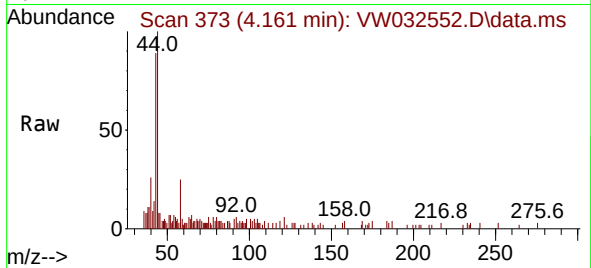




#16
Acetone
Concen: 11.616 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

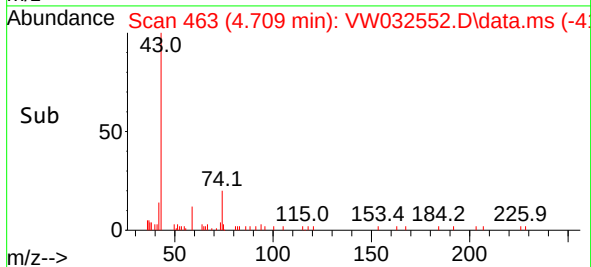
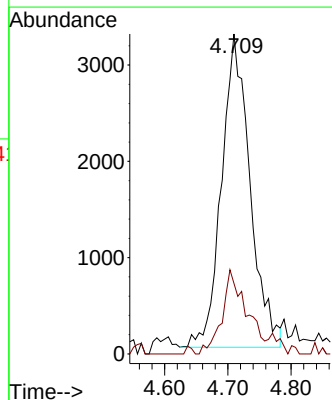
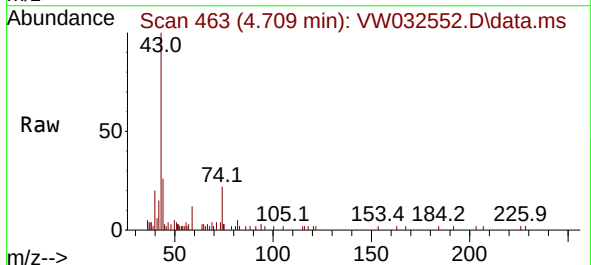
Instrument :
MSVOA_W
ClientSampleId :

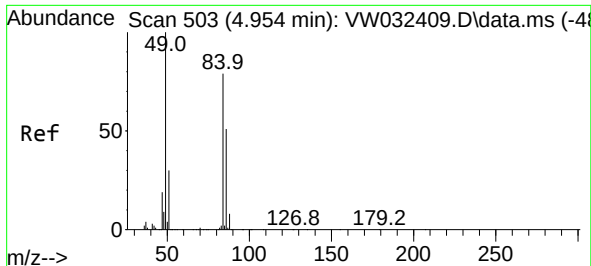
Tgt Ion: 43 Resp: 7681
Ion Ratio Lower Upper
43 100
58 28.1 24.8 37.2



#18
Methyl Acetate
Concen: 6.197 ug/l
RT: 4.709 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

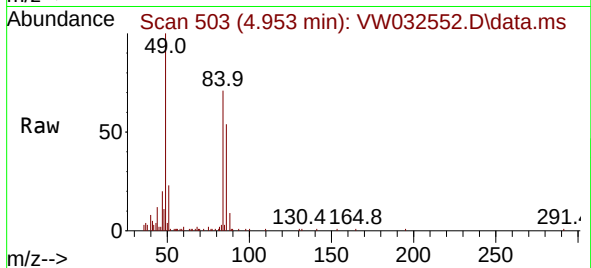
Tgt Ion: 43 Resp: 10147
Ion Ratio Lower Upper
43 100
74 23.0 18.9 28.3





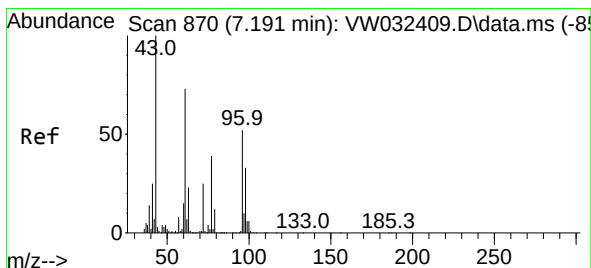
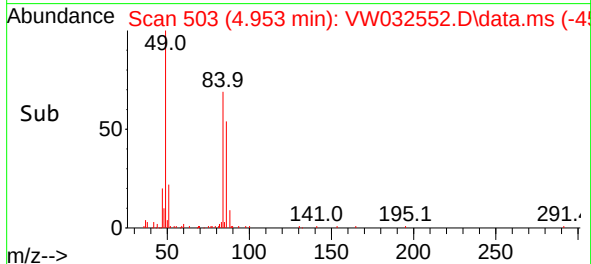
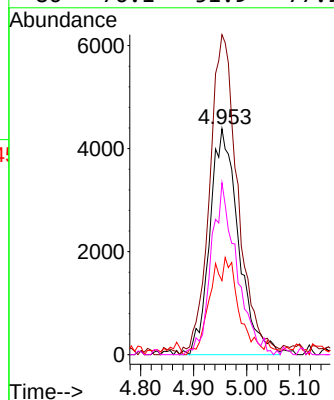
#20
Methylene Chloride
Concen: 6.975 ug/l
RT: 4.953 min Scan# 503
Delta R.T. -0.000 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 84 Resp: 16493

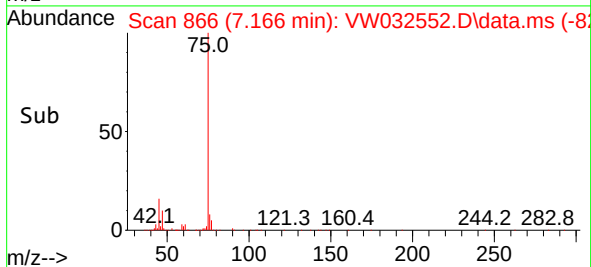
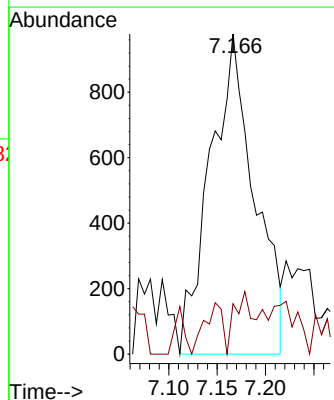
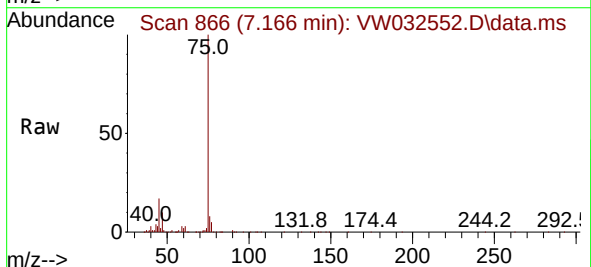
Ion	Ratio	Lower	Upper
84	100		
49	139.9	101.5	152.3
51	30.8	30.6	46.0
86	76.1	51.9	77.9

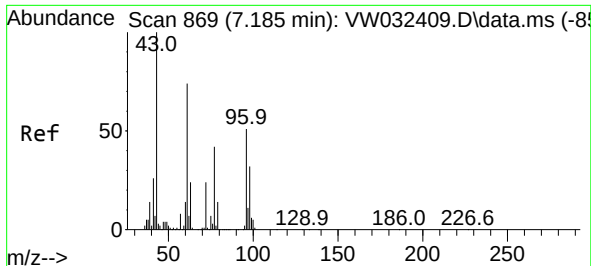


#25
2-Butanone
Concen: 3.210 ug/l
RT: 7.166 min Scan# 866
Delta R.T. -0.025 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

Tgt Ion: 43 Resp: 3127

Ion	Ratio	Lower	Upper
43	100		
72	0.9	20.0	30.0

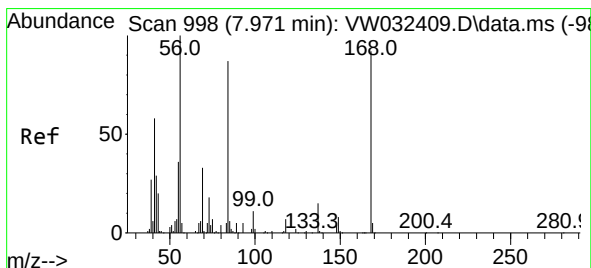
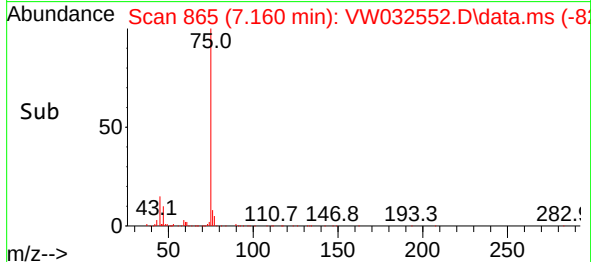
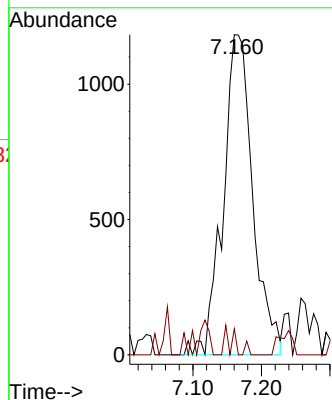
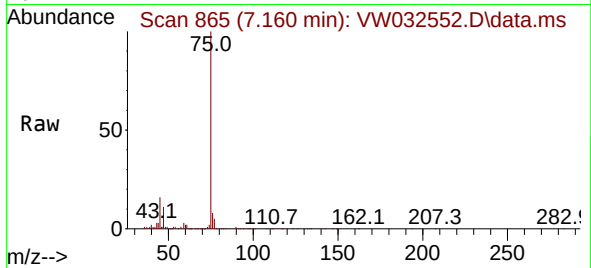




#26
2,2-Dichloropropane
Concen: 1.612 ug/l
RT: 7.160 min Scan# 80
Delta R.T. -0.025 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

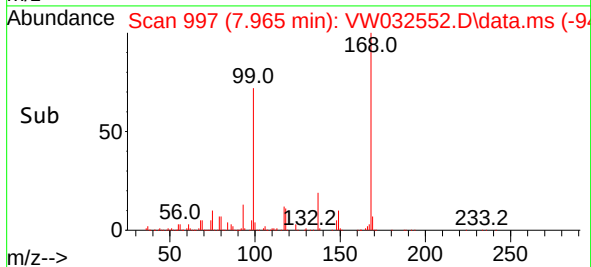
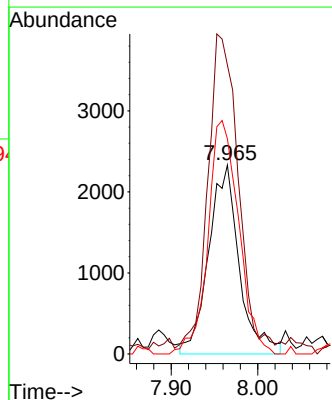
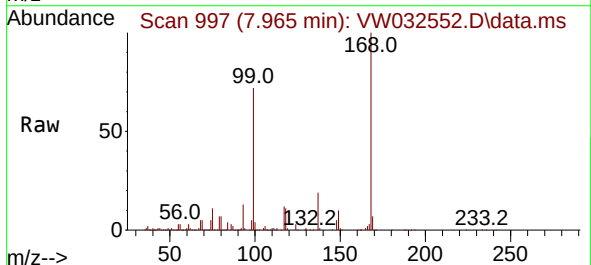
Instrument :
MSVOA_W
ClientSampleId :

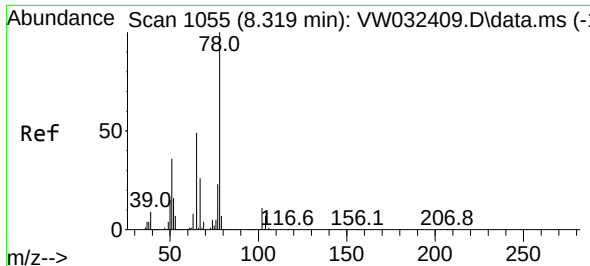
Tgt Ion: 77 Resp: 3552
Ion Ratio Lower Upper
77 100
97 2.1 12.3 36.8#



#31
Cyclohexane
Concen: 1.559 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

Tgt Ion: 56 Resp: 5702
Ion Ratio Lower Upper
56 100
69 156.2 26.5 39.7#
84 120.3 69.6 104.4#

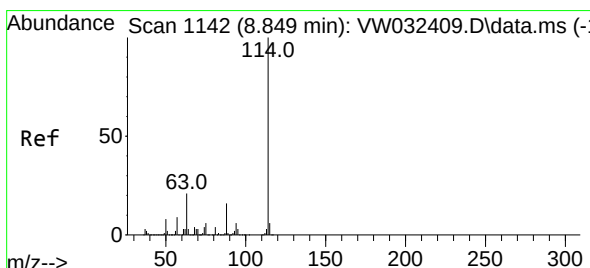
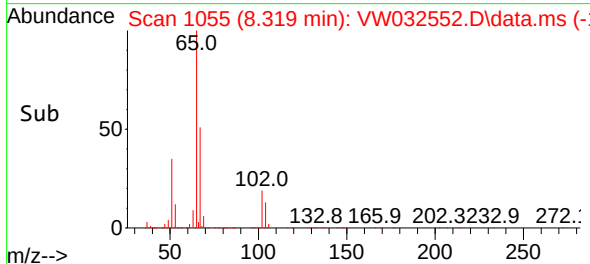
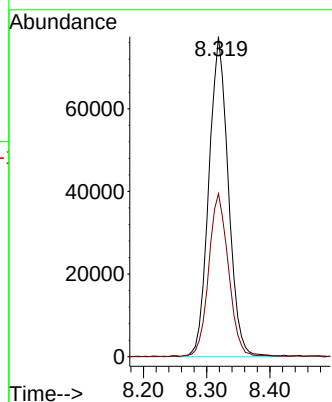
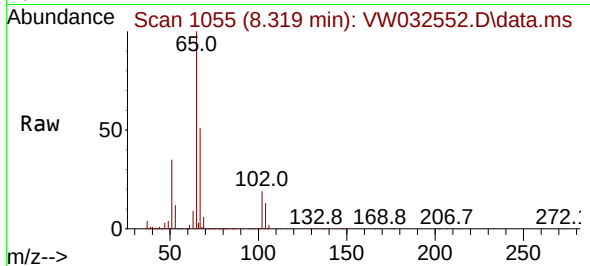




#33
 1,2-Dichloroethane-d4
 Concen: 74.905 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: VW032552.D
 Acq: 26 Nov 2025 18:17

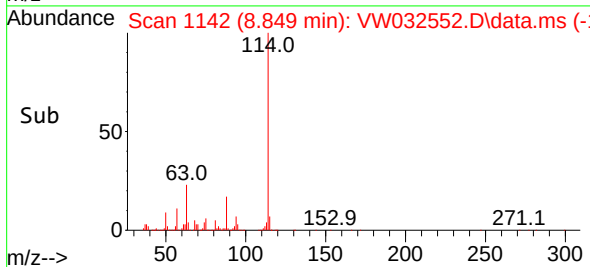
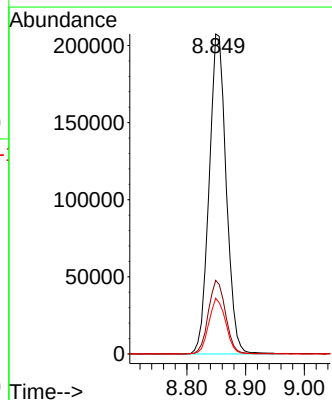
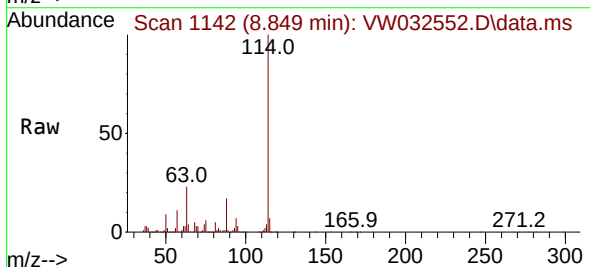
Instrument :
 MSVOA_W
 ClientSampleId :

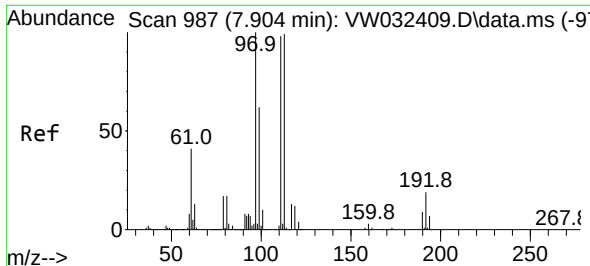
Tgt Ion: 65 Resp: 165549
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. -0.000 min
 Lab File: VW032552.D
 Acq: 26 Nov 2025 18:17

Tgt Ion: 114 Resp: 419256
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 41.8
 88 17.4 0.0 32.6

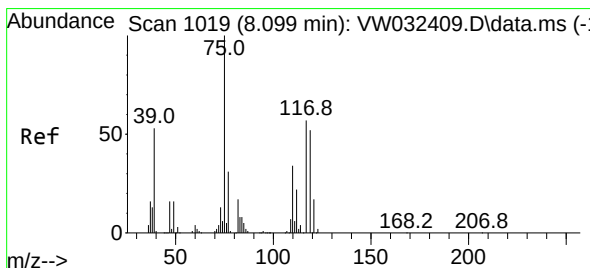
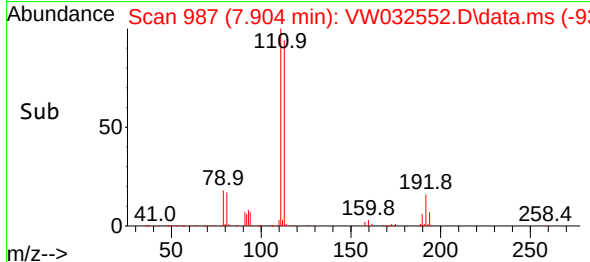
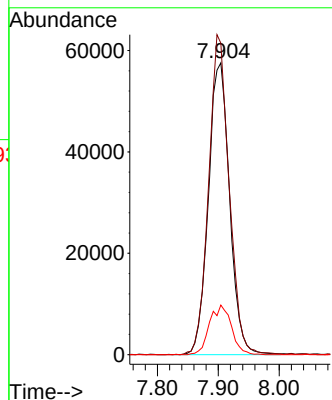
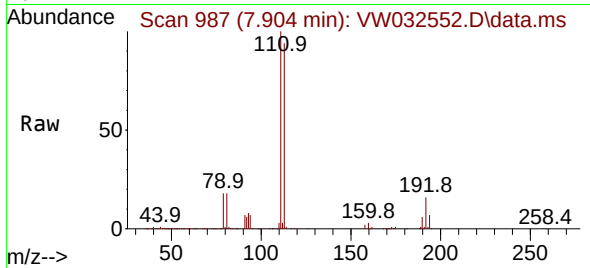




#35
Dibromofluoromethane
Concen: 55.701 ug/l
RT: 7.904 min Scan# 919
Delta R.T. -0.000 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

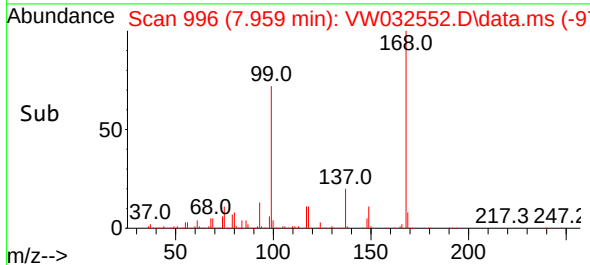
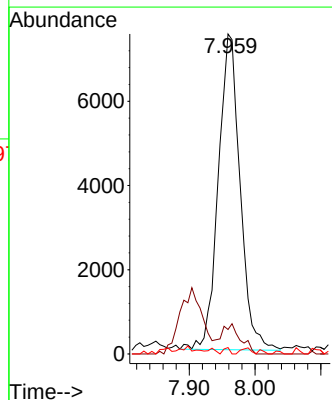
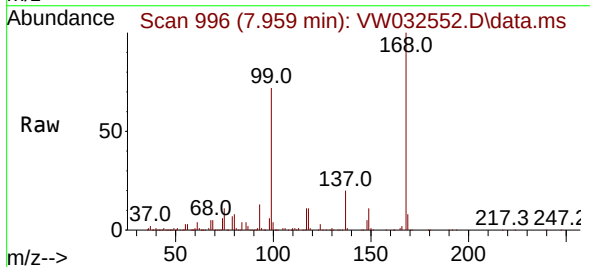
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MSVOA_W
ClientSampleId :

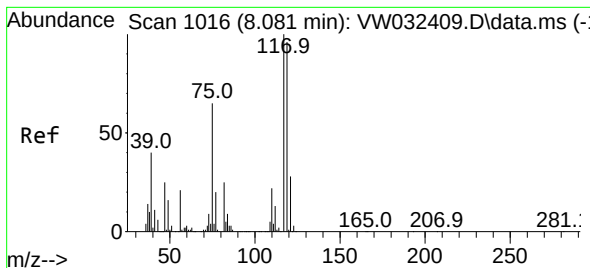
Tgt Ion:113 Resp: 139819
Ion Ratio Lower Upper
113 100
111 105.6 83.1 124.7
192 17.5 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.682 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

Tgt Ion: 75 Resp: 17318
Ion Ratio Lower Upper
75 100
110 8.0 17.2 51.5#
77 0.6 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.862 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

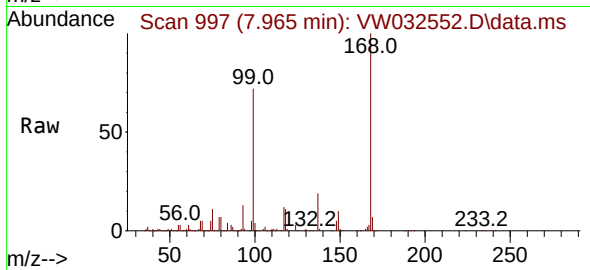
Lab File: VW032552.D

Acq: 26 Nov 2025 18:17

Instrument :

MSVOA_W

ClientSampleId :



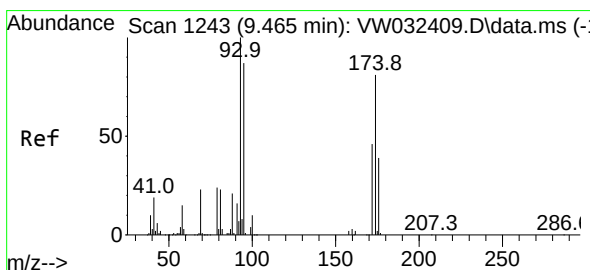
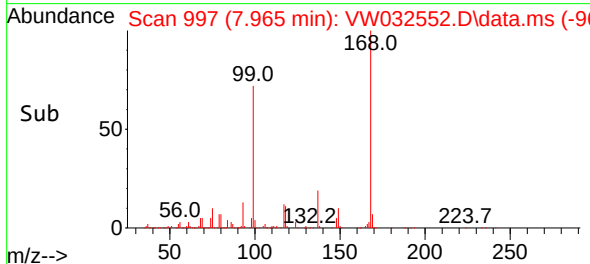
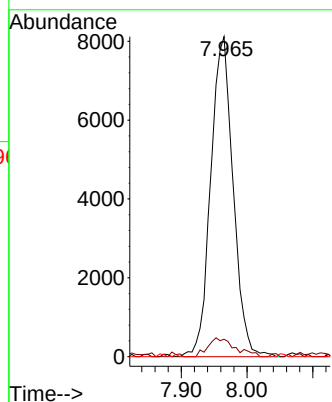
Tgt Ion:117 Resp: 19265

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: 1.895 ug/l

RT: 9.471 min Scan# 1244

Delta R.T. 0.006 min

Lab File: VW032552.D

Acq: 26 Nov 2025 18:17

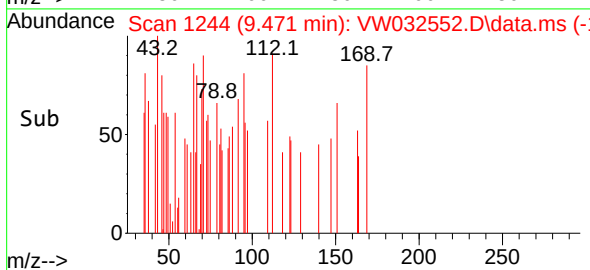
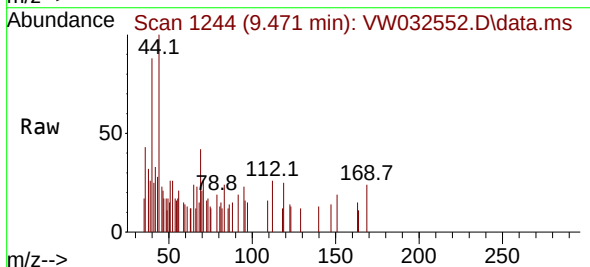
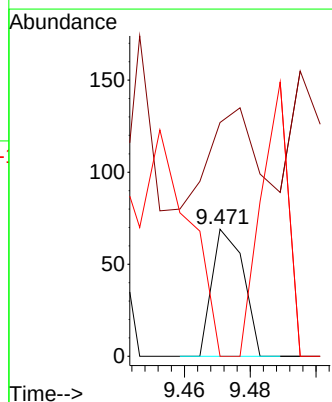
Tgt Ion: 88 Resp: 46

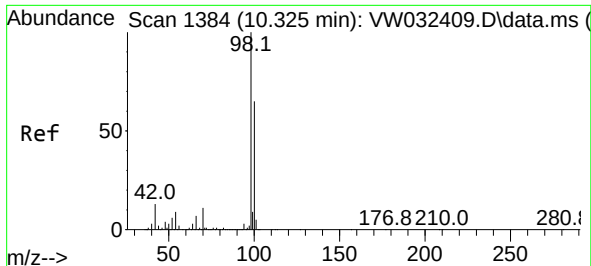
Ion Ratio Lower Upper

88 100

43 258.7 0.0 0.0#

58 0.0 63.0 94.4#

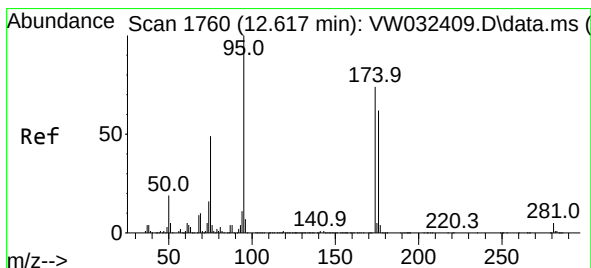
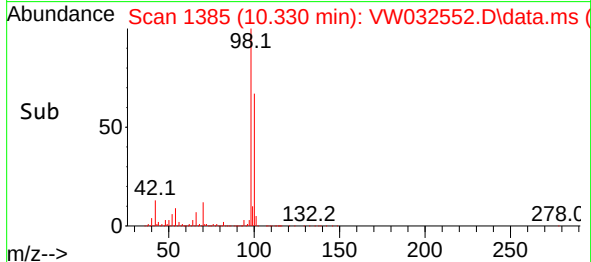
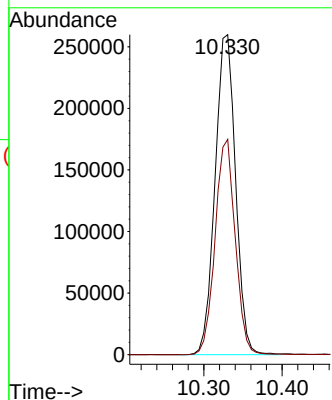
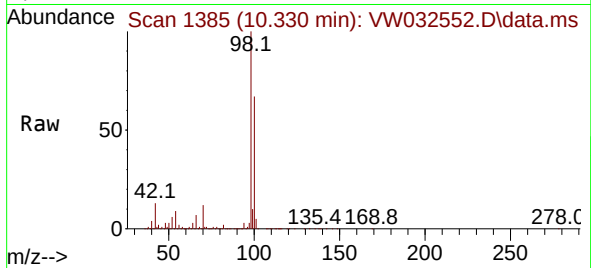




#50
Toluene-d8
Concen: 49.172 ug/l
RT: 10.330 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

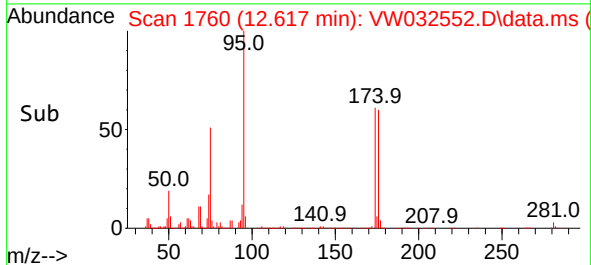
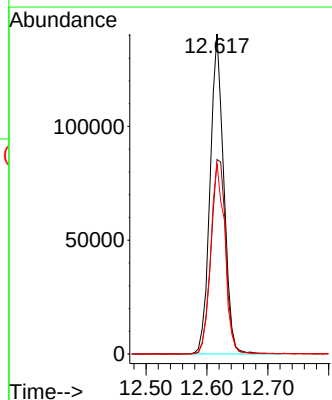
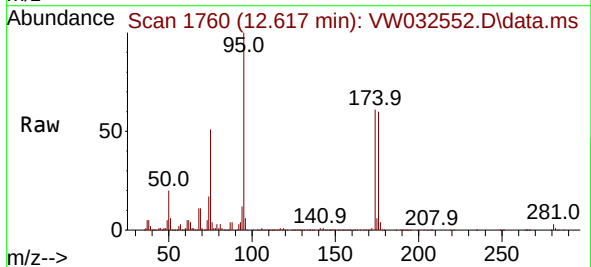
Instrument :
MSVOA_W
ClientSampleId :

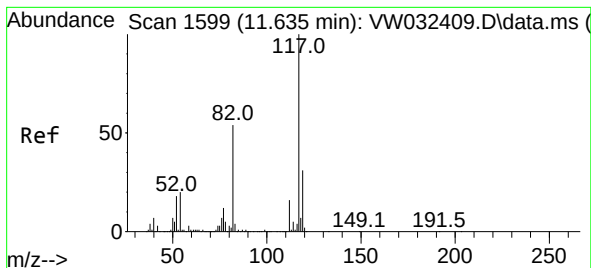
Tgt Ion: 98 Resp: 473523
Ion Ratio Lower Upper
98 100
100 66.1 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 60.282 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

Tgt Ion: 95 Resp: 219295
Ion Ratio Lower Upper
95 100
174 66.2 0.0 135.4
176 61.6 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW032552.D

Acq: 26 Nov 2025 18:17

Instrument :

MSVOA_W

ClientSampleId :

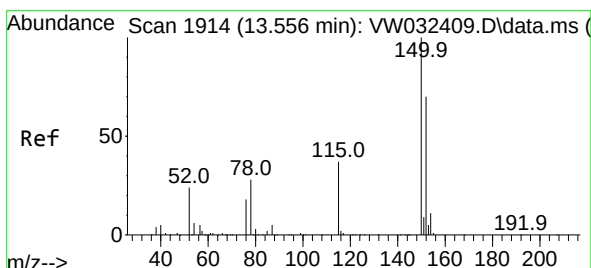
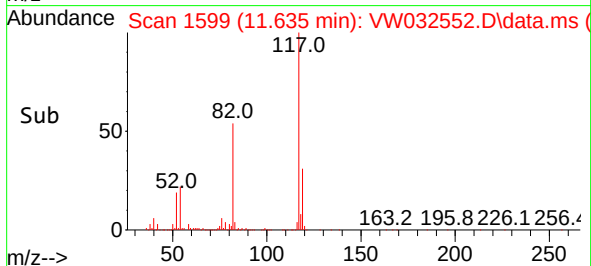
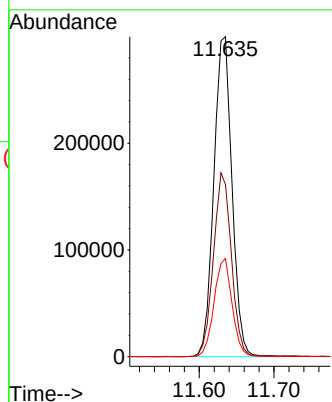
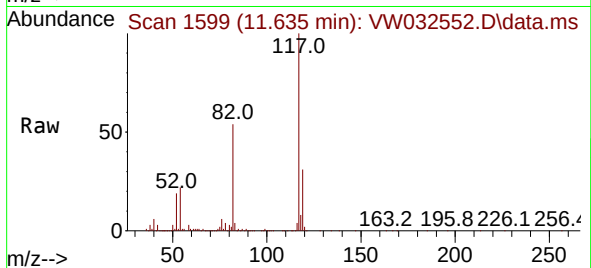
Tgt Ion:117 Resp: 506374

Ion Ratio Lower Upper

117 100

82 53.8 43.0 64.4

119 30.6 25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.555 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032552.D

Acq: 26 Nov 2025 18:17

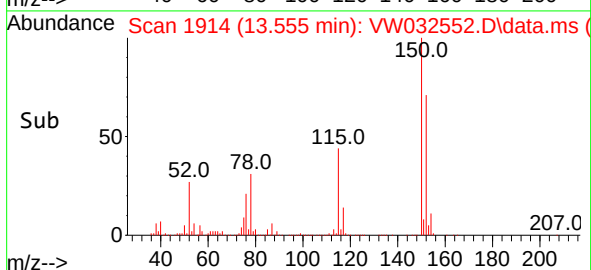
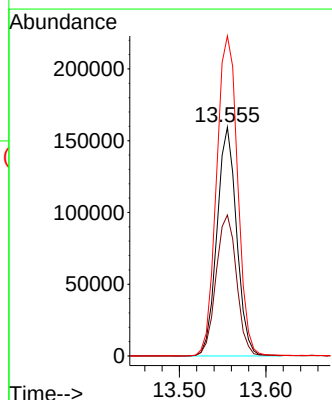
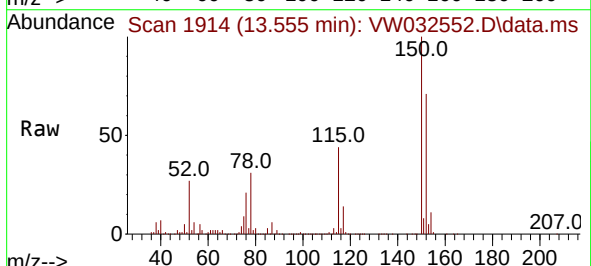
Tgt Ion:152 Resp: 251247

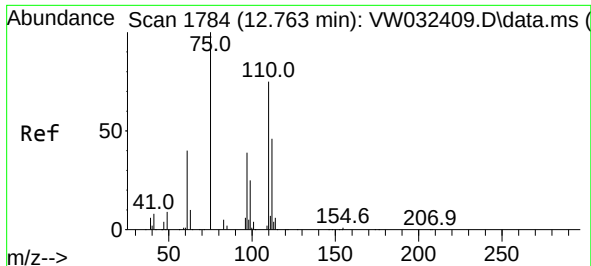
Ion Ratio Lower Upper

152 100

115 64.8 32.8 98.3

150 150.2 0.0 356.6

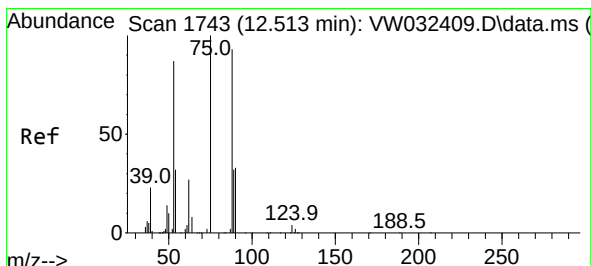
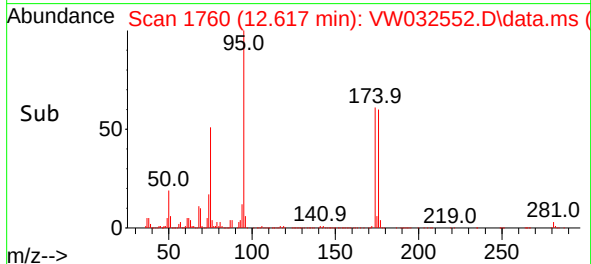
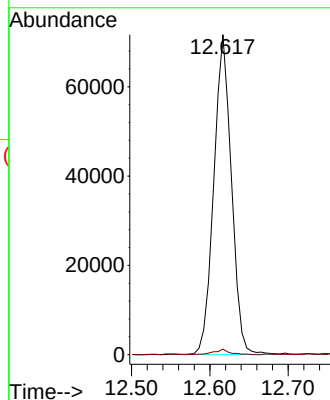
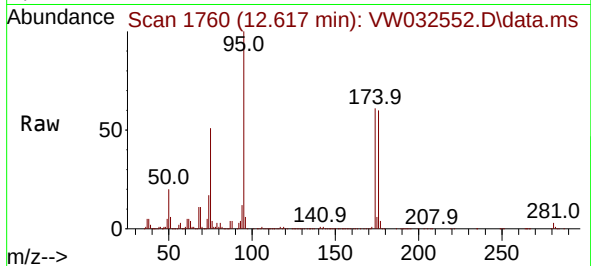




#76
1,2,3-Trichloropropane
Concen: 32.455 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.147 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 75 Resp: 111809
Ion Ratio Lower Upper
75 100
77 1.6 151.6 454.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.337 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.103 min
Lab File: VW032552.D
Acq: 26 Nov 2025 18:17

Tgt Ion: 75 Resp: 111809
Ion Ratio Lower Upper
75 100
53 0.3 77.8 116.8#
89 0.1 35.6 53.4#

