

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112625\
 Data File : VW032545.D
 Acq On : 26 Nov 2025 15:42
 Operator : SY/MD
 Sample : Q3719-06
 Misc : 5.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 27 00:29:11 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)

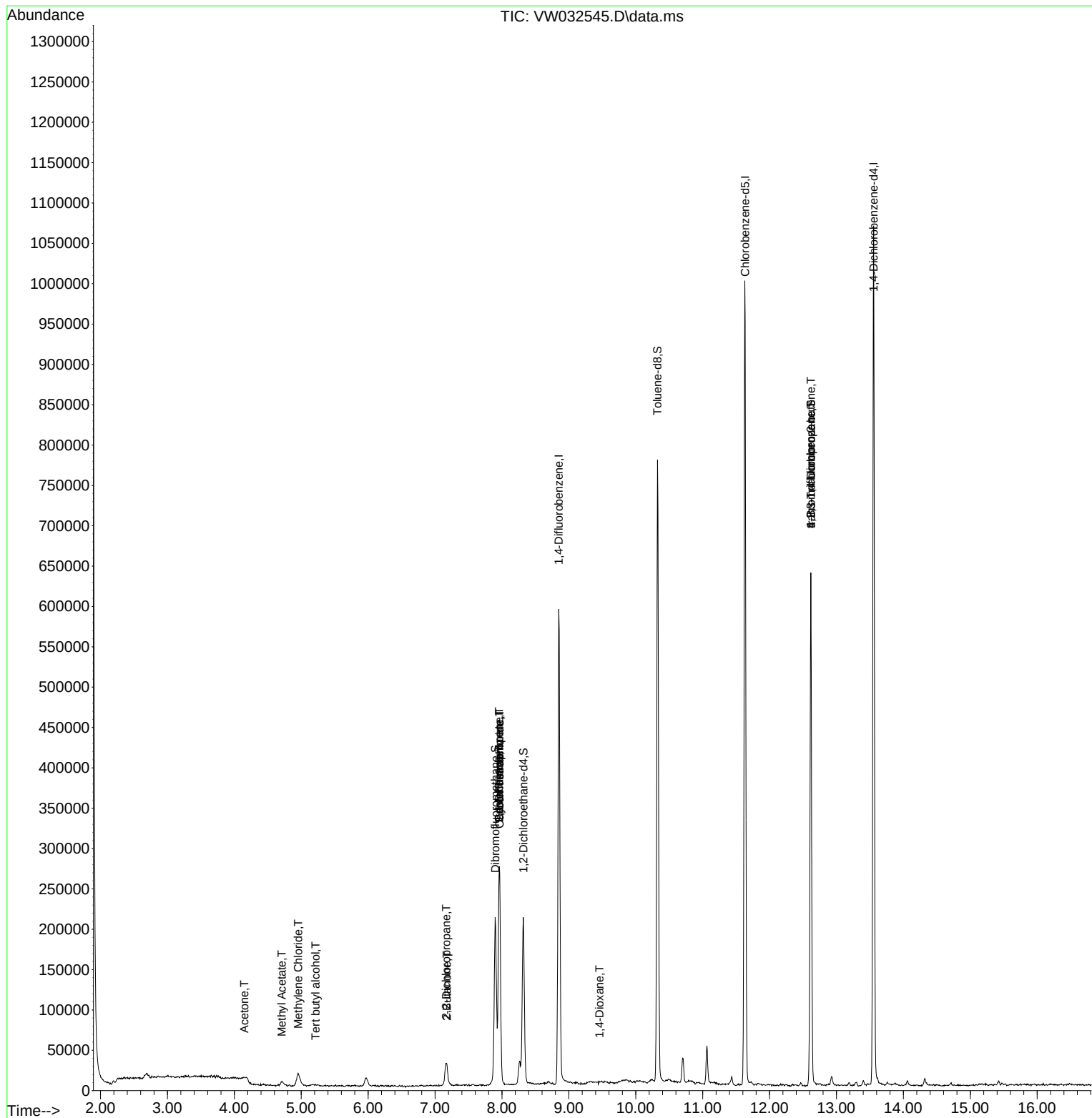
Internal Standards						
1) Pentafluorobenzene	7.959	168	186663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	470881	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	539261	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	265861	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	167157	69.460	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 138.920%		
35) Dibromofluoromethane	7.898	113	151206	53.633	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 107.260%		
50) Toluene-d8	10.325	98	497865	46.032	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 92.060%		
62) 4-Bromofluorobenzene	12.617	95	217244	53.171	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 106.340%		
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.216	59	468	2.249	ug/l #	1
16) Acetone	4.149	43	1499	2.082	ug/l	99
18) Methyl Acetate	4.710	43	9843	5.521	ug/l	93
20) Methylene Chloride	4.954	84	13696	5.319	ug/l	98
25) 2-Butanone	7.179	43	2001	1.886	ug/l #	55
26) 2,2-Dichloropropane	7.167	77	2606	1.086	ug/l #	53
31) Cyclohexane	7.959	56	5825	1.463	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	18906	4.551	ug/l #	51
38) Carbon Tetrachloride	7.965	117	21587	5.849	ug/l #	16
49) 1,4-Dioxane	9.459	88	194	7.115	ug/l #	10
76) 1,2,3-Trichloropropane	12.617	75	112196	30.778	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	112196	70.494	ug/l #	11

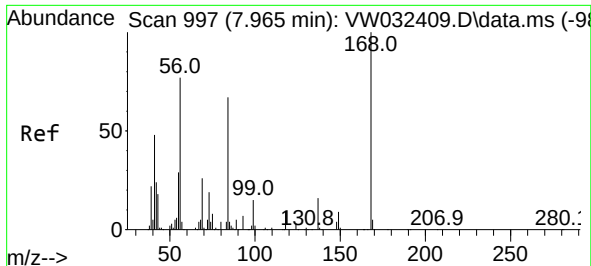
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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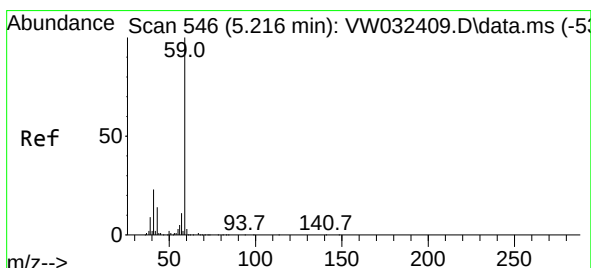
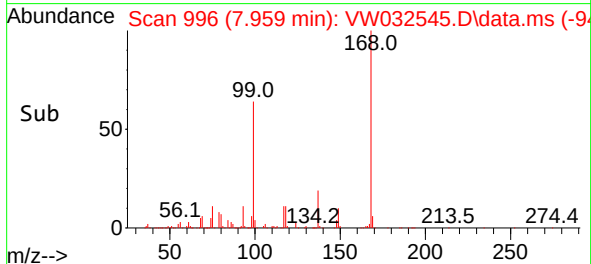
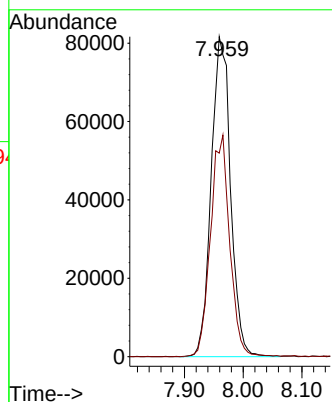
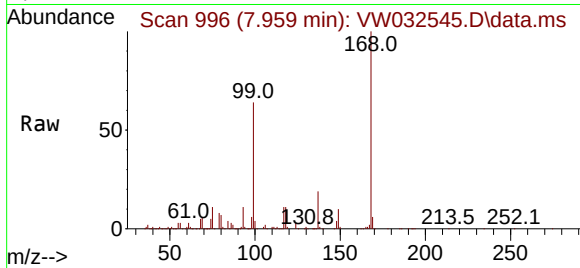




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

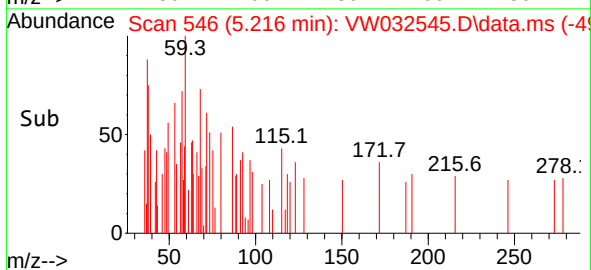
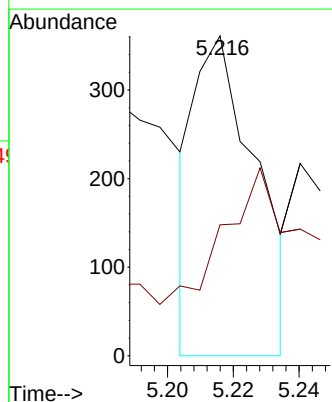
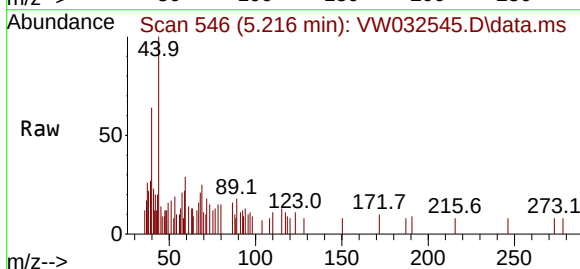
Instrument :
MSVOA_W
ClientSampleId :

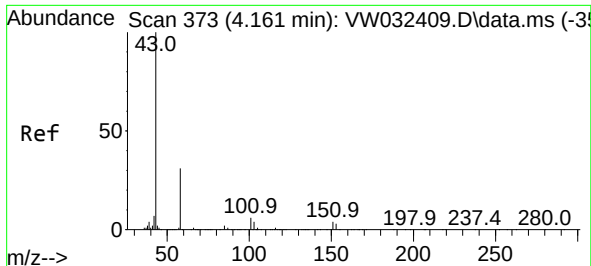
Tgt Ion:168 Resp: 186663
Ion Ratio Lower Upper
168 100
99 63.6 45.4 68.2



#11
Tert butyl alcohol
Concen: 2.249 ug/l
RT: 5.216 min Scan# 546
Delta R.T. 0.000 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

Tgt Ion: 59 Resp: 468
Ion Ratio Lower Upper
59 100
57 84.0 8.6 12.8#

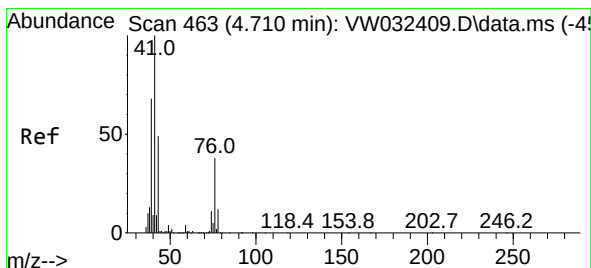
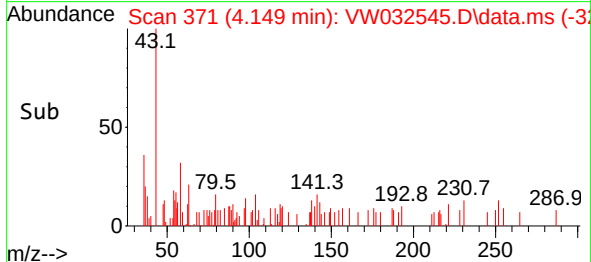
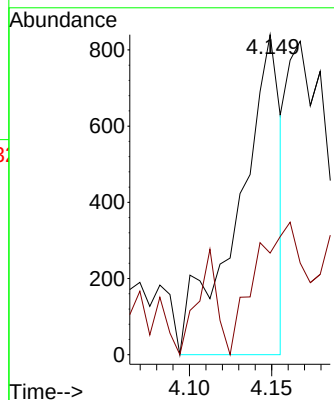
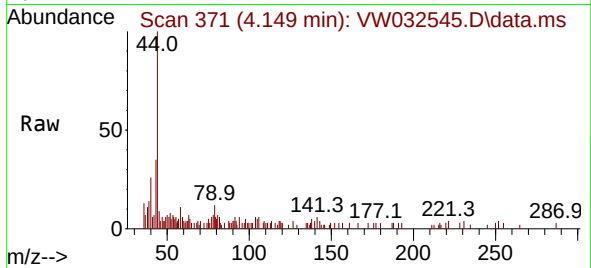




#16
Acetone
Concen: 2.082 ug/l
RT: 4.149 min Scan# 371
Delta R.T. -0.012 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

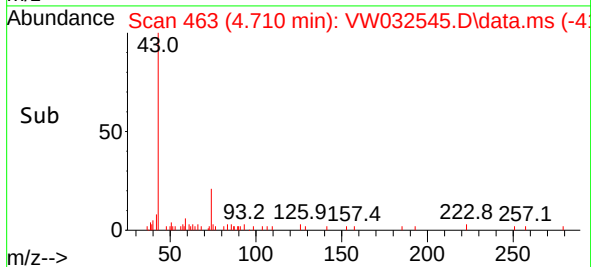
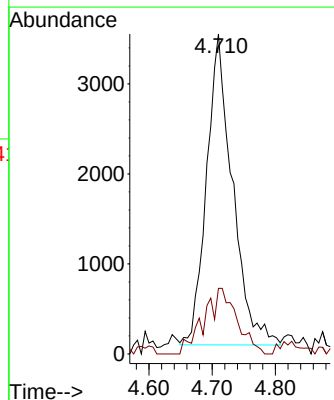
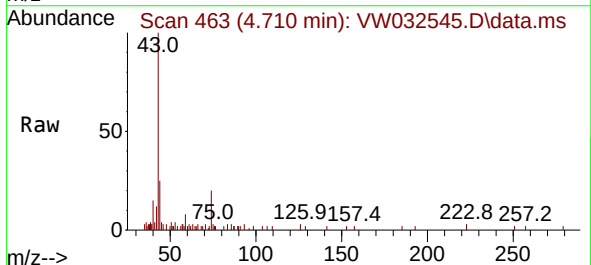
Instrument :
MSVOA_W
ClientSampleId :

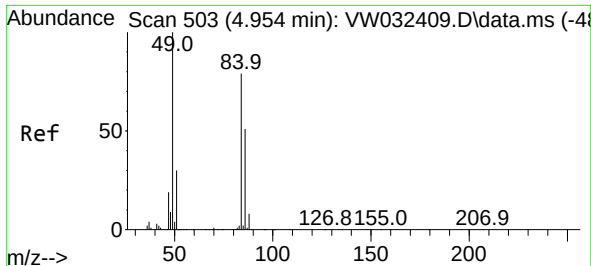
Tgt Ion: 43 Resp: 1499
Ion Ratio Lower Upper
43 100
58 31.8 24.8 37.2



#18
Methyl Acetate
Concen: 5.521 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

Tgt Ion: 43 Resp: 9843
Ion Ratio Lower Upper
43 100
74 26.9 18.9 28.3

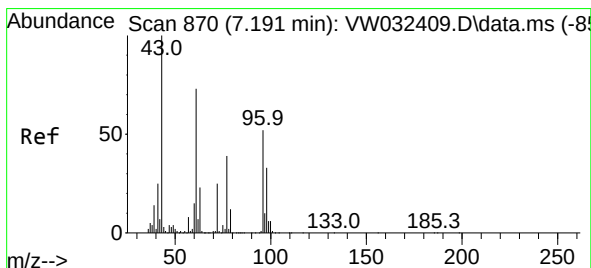
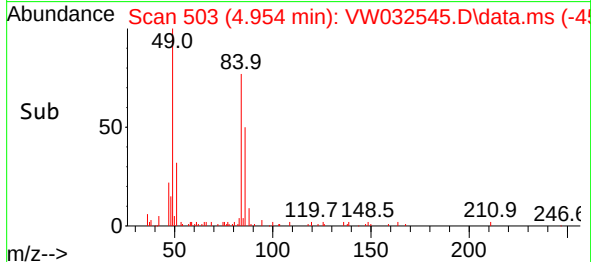
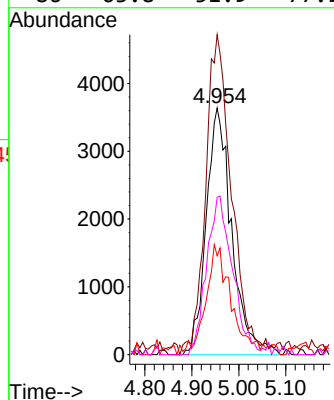
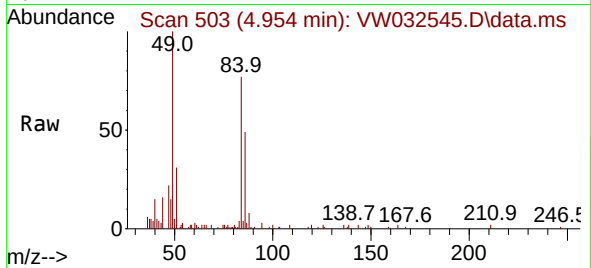




#20
Methylene Chloride
Concen: 5.319 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

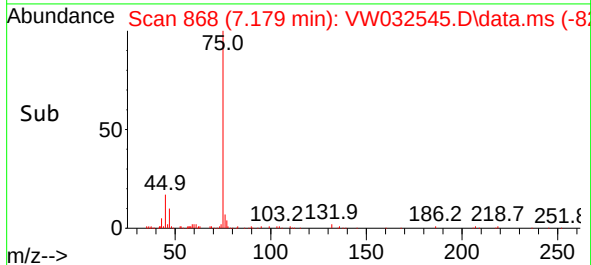
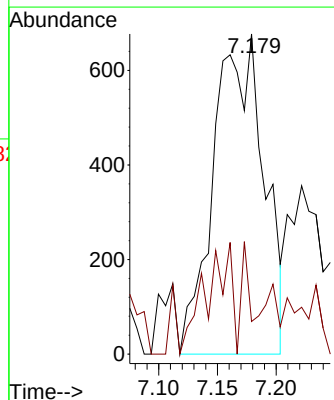
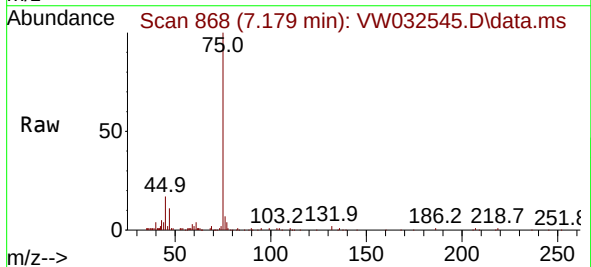
Instrument :
MSVOA_W
ClientSampleId :

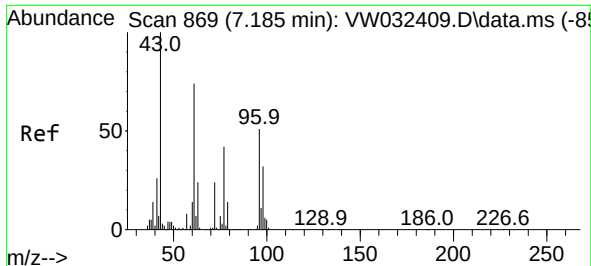
Tgt Ion:	84	Resp:	13696
Ion	Ratio	Lower	Upper
84	100		
49	129.7	101.5	152.3
51	40.1	30.6	46.0
86	63.8	51.9	77.9



#25
2-Butanone
Concen: 1.886 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

Tgt Ion:	43	Resp:	2001
Ion	Ratio	Lower	Upper
43	100		
72	2.7	20.0	30.0#

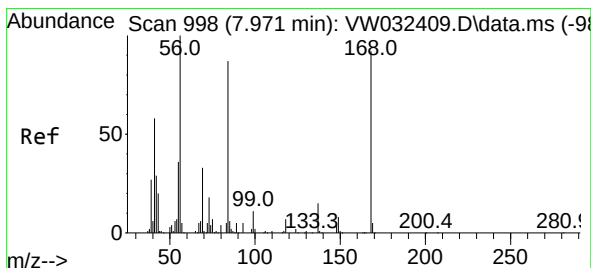
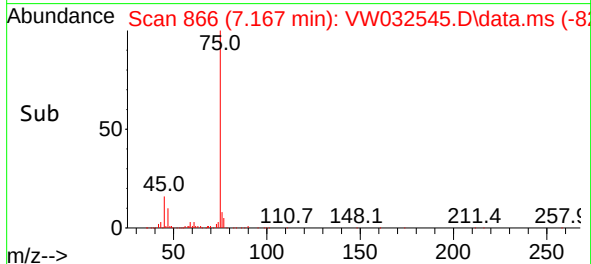
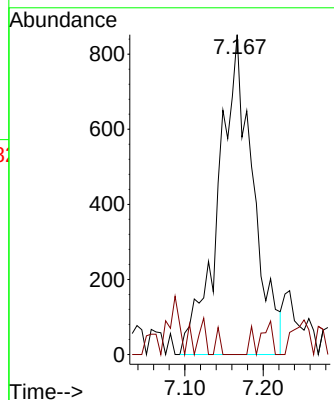
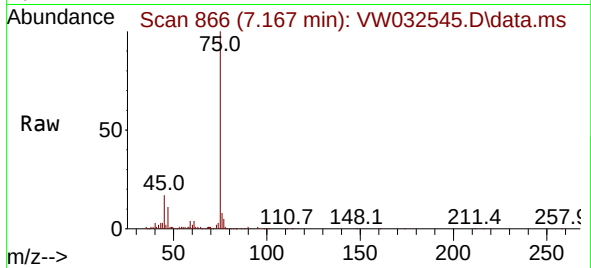




#26
2,2-Dichloropropane
Concen: 1.086 ug/l
RT: 7.167 min Scan# 80
Delta R.T. -0.018 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

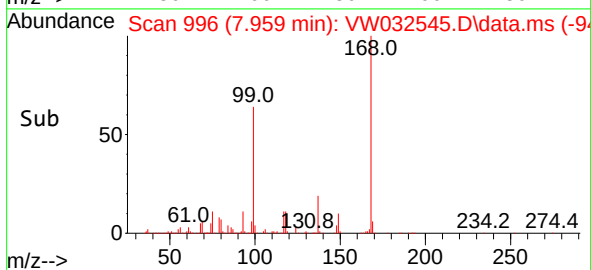
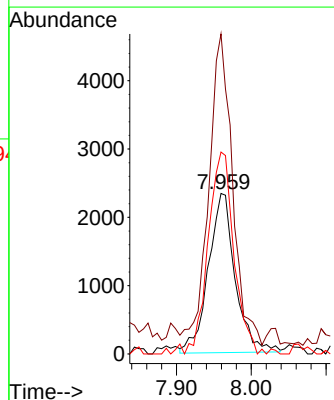
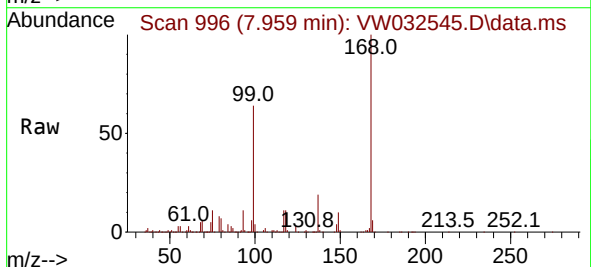
Instrument :
MSVOA_W
ClientSampleId :

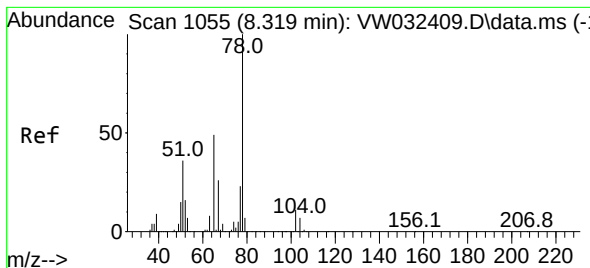
Tgt Ion: 77 Resp: 2606
Ion Ratio Lower Upper
77 100
97 1.0 12.3 36.8#



#31
Cyclohexane
Concen: 1.463 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

Tgt Ion: 56 Resp: 5825
Ion Ratio Lower Upper
56 100
69 197.8 26.5 39.7#
84 128.8 69.6 104.4#





#33

1,2-Dichloroethane-d4

Concen: 69.460 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW032545.D

Acq: 26 Nov 2025 15:42

Instrument :

MSVOA_W

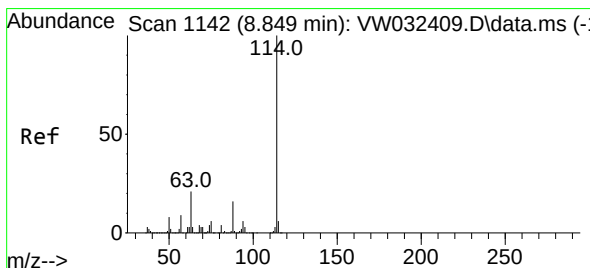
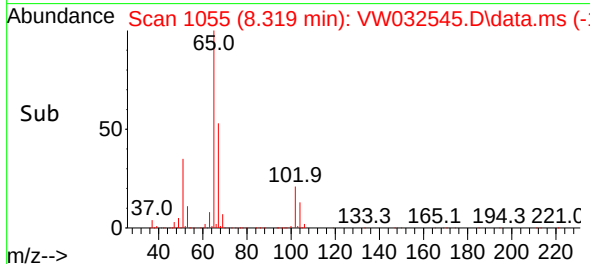
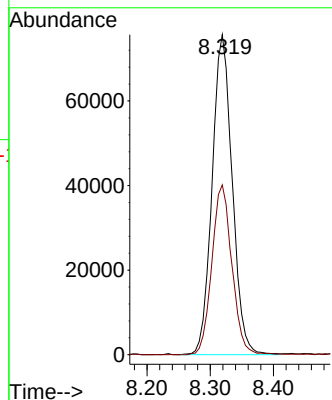
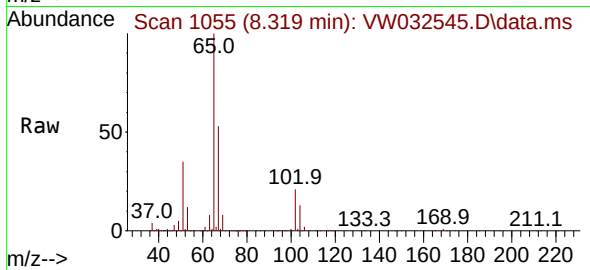
ClientSampleId :

Tgt Ion: 65 Resp: 167157

Ion Ratio Lower Upper

65 100

67 52.8 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: VW032545.D

Acq: 26 Nov 2025 15:42

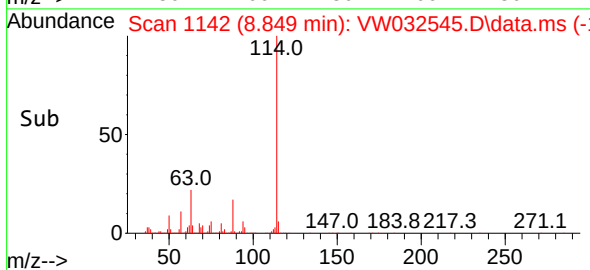
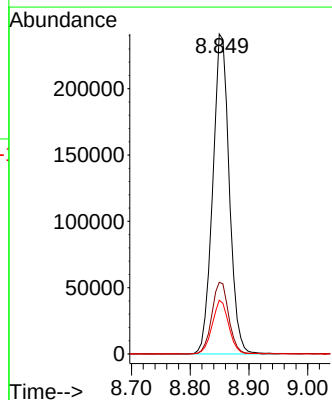
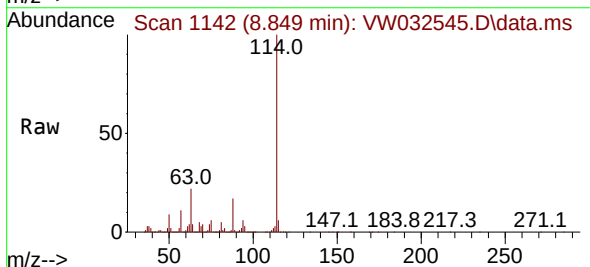
Tgt Ion: 114 Resp: 470881

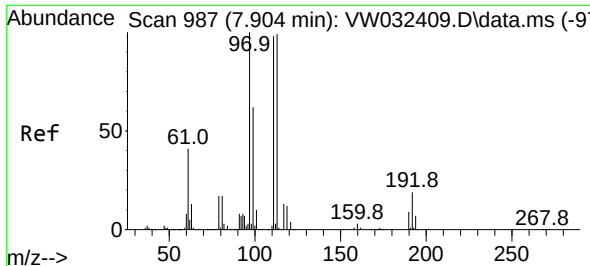
Ion Ratio Lower Upper

114 100

63 22.4 0.0 41.8

88 16.8 0.0 32.6

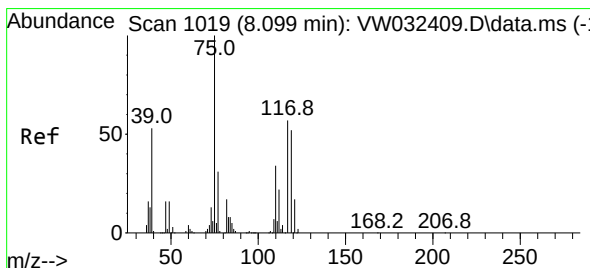
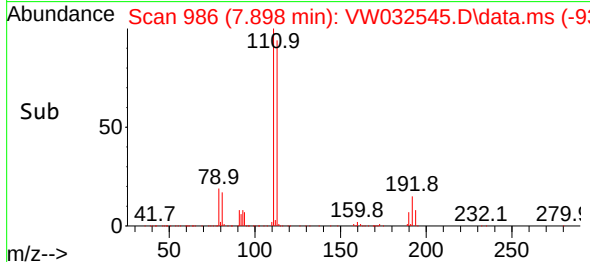
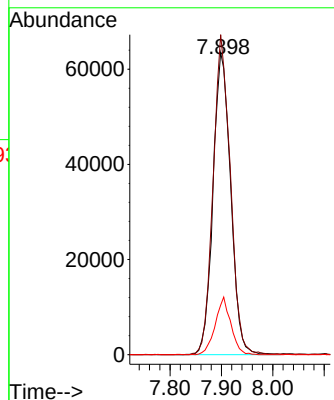
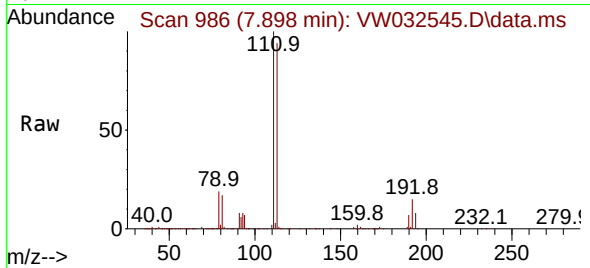




#35
 Dibromofluoromethane
 Concen: 53.633 ug/l
 RT: 7.898 min Scan# 911
 Delta R.T. -0.006 min
 Lab File: VW032545.D
 Acq: 26 Nov 2025 15:42

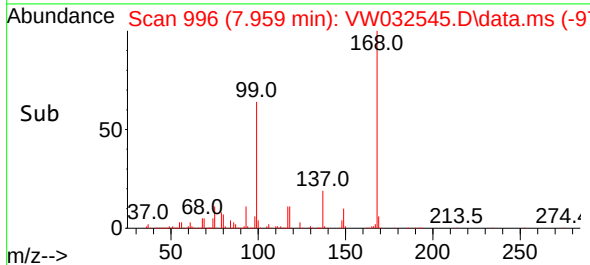
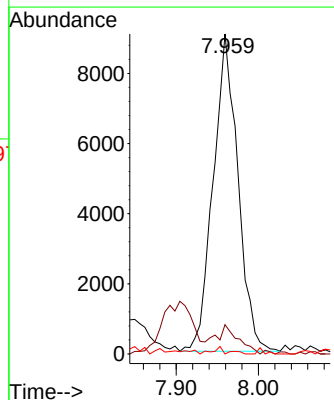
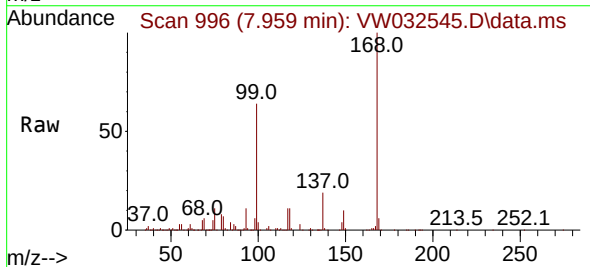
Instrument :
 MSVOA_W
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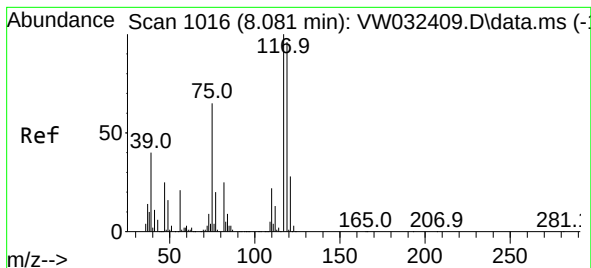
Tgt Ion:113 Resp: 151206
 Ion Ratio Lower Upper
 113 100
 111 103.6 83.1 124.7
 192 16.9 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 4.551 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032545.D
 Acq: 26 Nov 2025 15:42

Tgt Ion: 75 Resp: 18906
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.2 51.5#
 77 1.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.849 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

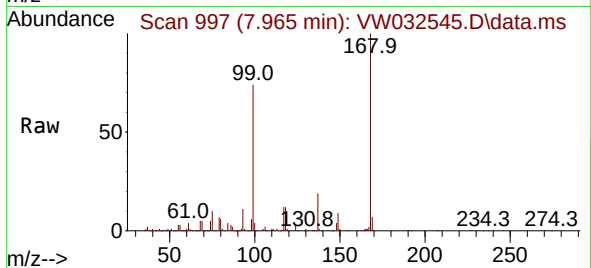
Lab File: VW032545.D

Acq: 26 Nov 2025 15:42

Instrument :

MSVOA_W

ClientSampleId :



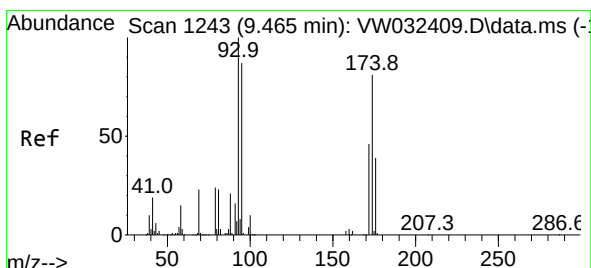
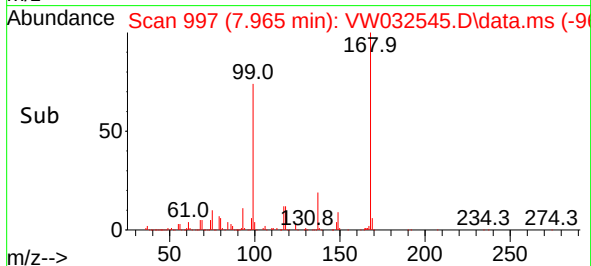
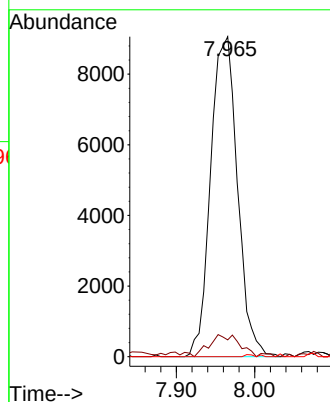
Tgt Ion: 117 Resp: 21587

Ion Ratio Lower Upper

117 100

119 5.2 77.0 115.4#

121 0.0 22.0 33.0#



#49

1,4-Dioxane

Concen: 7.115 ug/l

RT: 9.459 min Scan# 1242

Delta R.T. -0.006 min

Lab File: VW032545.D

Acq: 26 Nov 2025 15:42

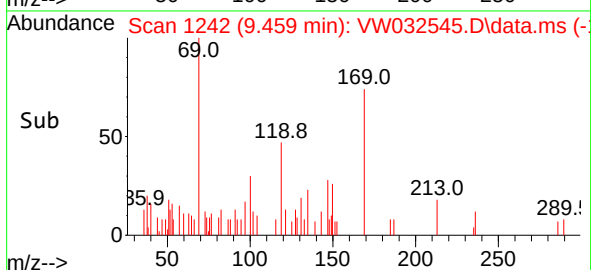
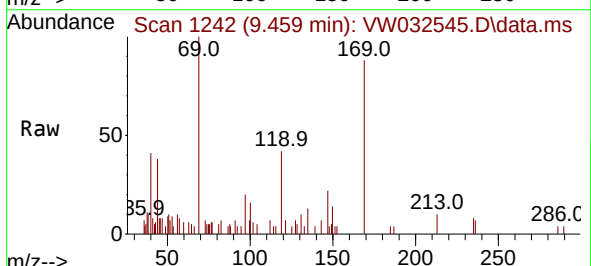
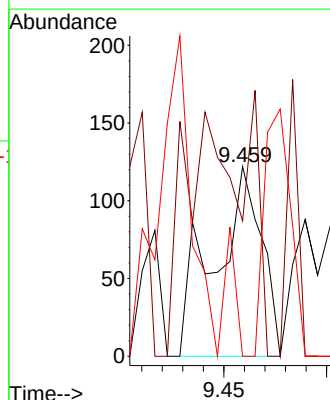
Tgt Ion: 88 Resp: 194

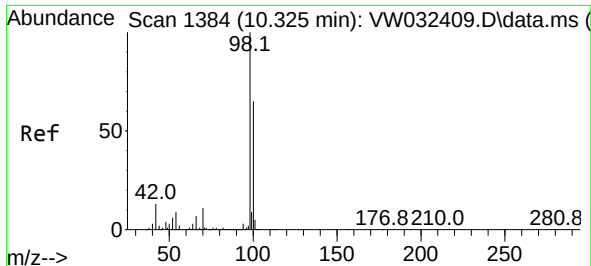
Ion Ratio Lower Upper

88 100

43 168.6 0.0 0.0#

58 0.0 63.0 94.4#

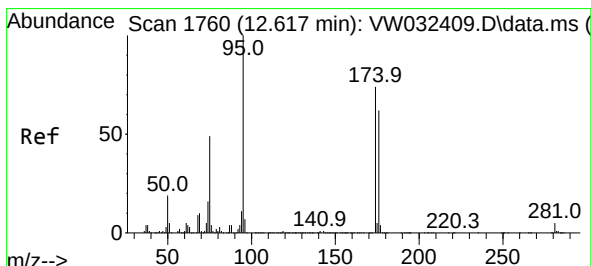
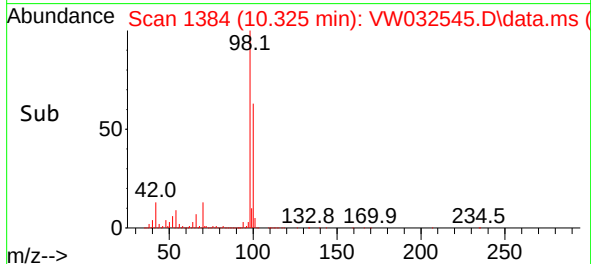
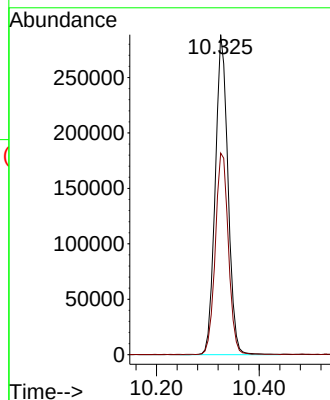
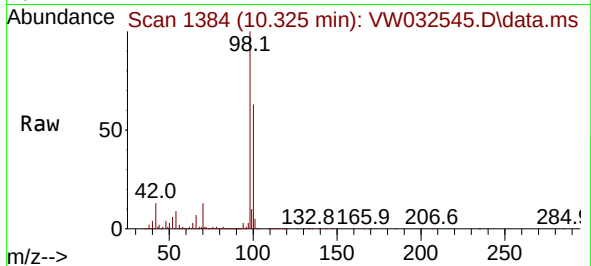




#50
Toluene-d8
Concen: 46.032 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

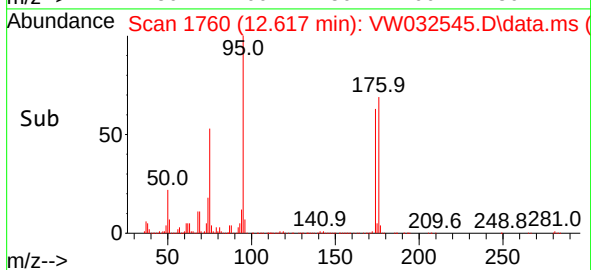
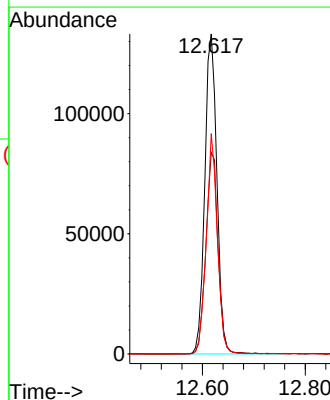
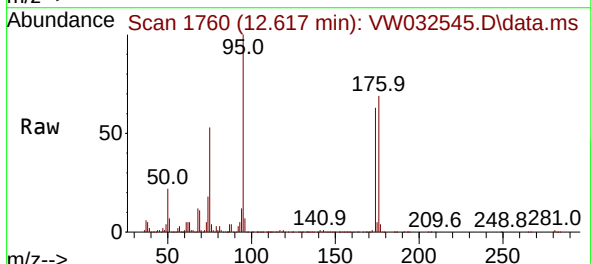
Instrument :
MSVOA_W
ClientSampleId :

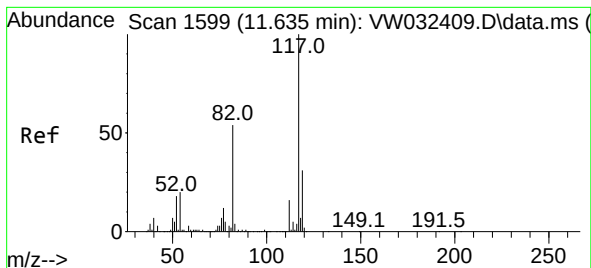
Tgt Ion: 98 Resp: 497865
Ion Ratio Lower Upper
98 100
100 64.8 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 53.171 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

Tgt Ion: 95 Resp: 217244
Ion Ratio Lower Upper
95 100
174 63.4 0.0 135.4
176 63.3 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.636 min Scan# 1159

Delta R.T. 0.000 min

Lab File: VW032545.D

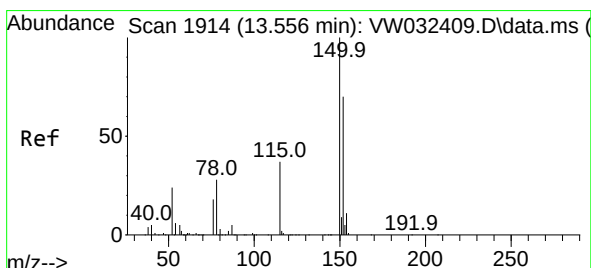
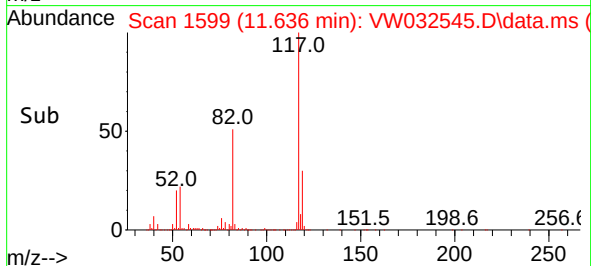
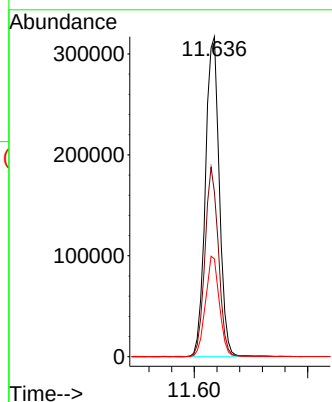
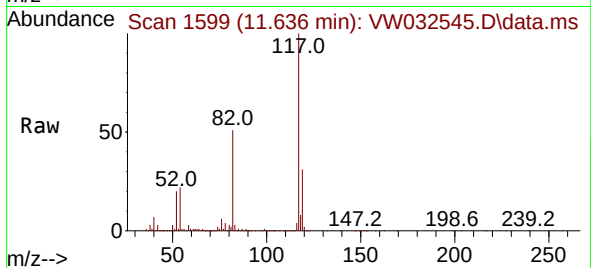
Acq: 26 Nov 2025 15:42

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:117	Resp: 539261
Ion Ratio	Lower Upper
117 100	
82 51.4	43.0 64.4
119 30.5	25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

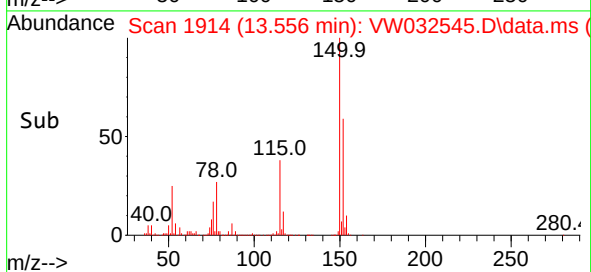
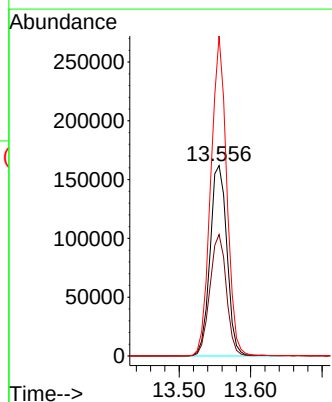
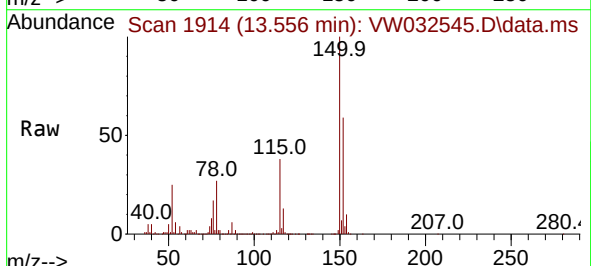
RT: 13.556 min Scan# 1914

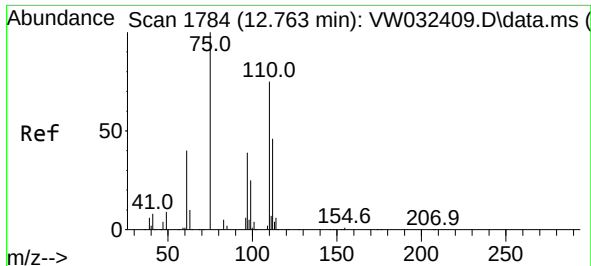
Delta R.T. 0.000 min

Lab File: VW032545.D

Acq: 26 Nov 2025 15:42

Tgt Ion:152	Resp: 265861
Ion Ratio	Lower Upper
152 100	
115 62.2	32.8 98.3
150 158.5	0.0 356.6

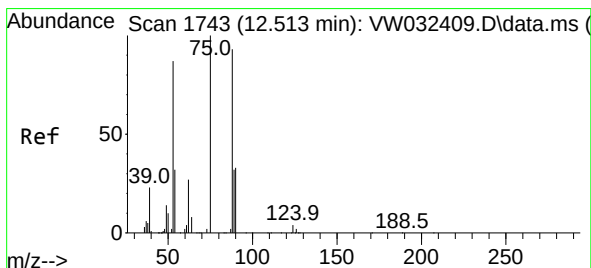
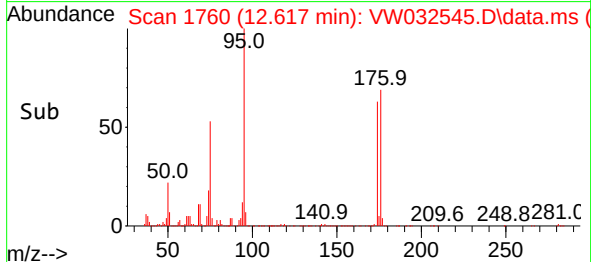
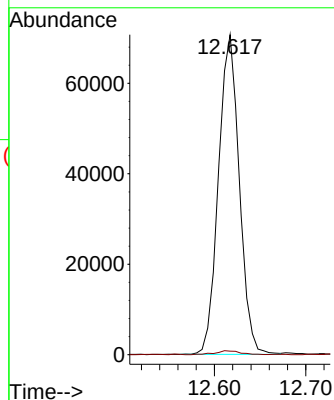
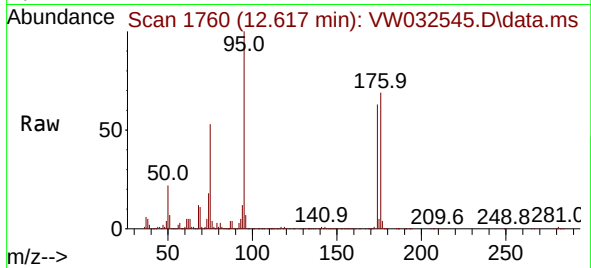




#76
1,2,3-Trichloropropane
Concen: 30.778 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 75 Resp: 112196
Ion Ratio Lower Upper
75 100
77 1.5 151.6 454.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.494 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032545.D
Acq: 26 Nov 2025 15:42

Tgt Ion: 75 Resp: 112196
Ion Ratio Lower Upper
75 100
53 0.3 77.8 116.8#
89 0.1 35.6 53.4#

