

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032479.D
 Acq On : 18 Nov 2025 14:24
 Operator : SY/MD
 Sample : Q3661-02
 Misc : 5.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VOC

Quant Time: Nov 19 00:27:58 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)

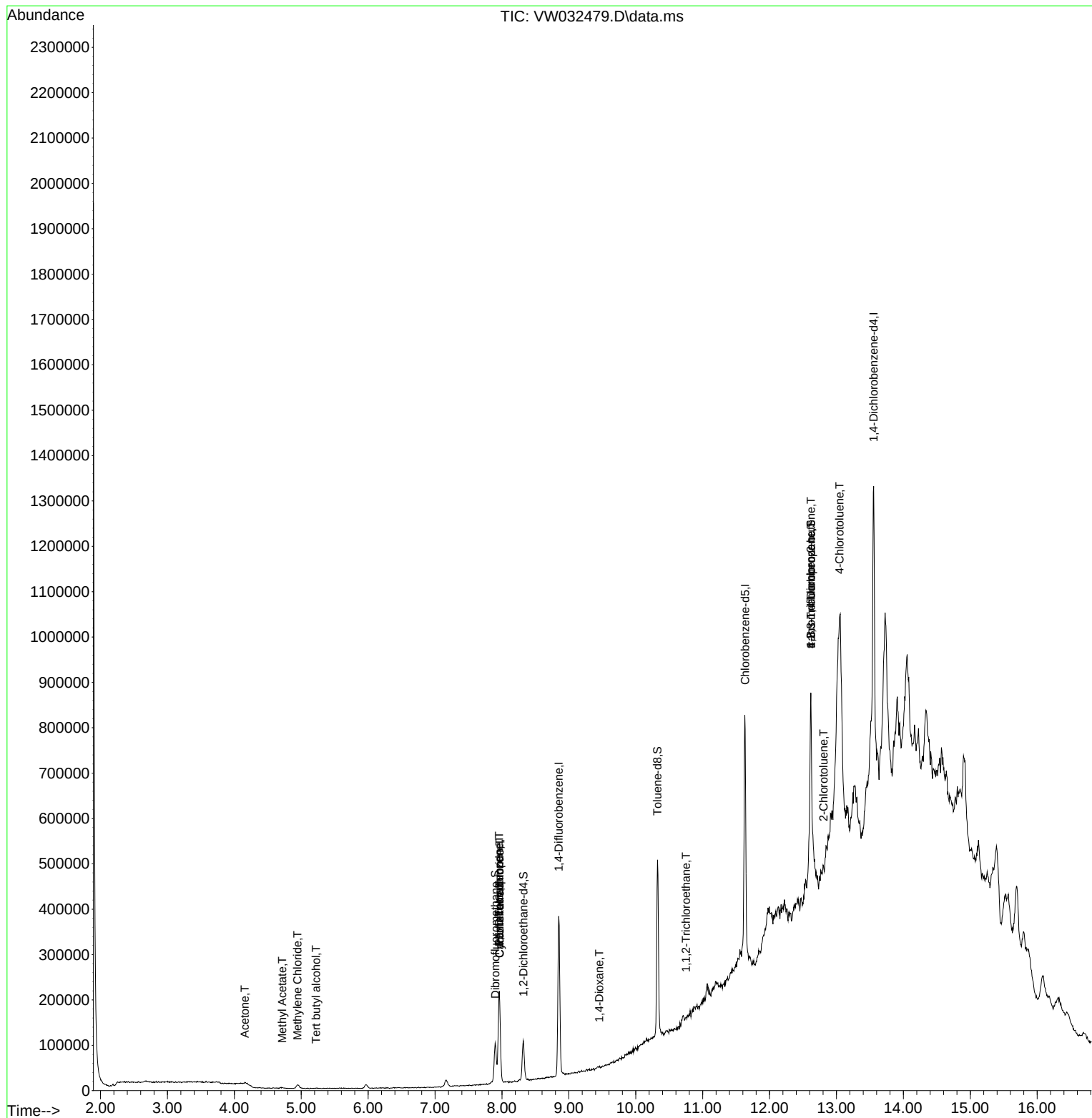
Internal Standards						
1) Pentafluorobenzene	7.959	168	143859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	306233	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	292701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	141349	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	70878	38.216	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	76.440%
35) Dibromofluoromethane	7.898	113	67502	36.816	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	73.640%
50) Toluene-d8	10.325	98	259912	36.951	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	73.900%#
62) 4-Bromofluorobenzene	12.617	95	134324	50.552	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	101.100%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.222	59	324	2.020	ug/l #	28
16) Acetone	4.155	43	2240	4.037	ug/l #	79
18) Methyl Acetate	4.716	43	4012	2.920	ug/l	99
20) Methylene Chloride	4.942	84	6612	3.332	ug/l	86
31) Cyclohexane	7.965	56	3783	1.233	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	12911	4.779	ug/l #	55
38) Carbon Tetrachloride	7.965	117	16468	6.861	ug/l #	16
49) 1,4-Dioxane	9.453	88	49	2.763	ug/l #	57
55) 1,1,2-Trichloroethane	10.752	97	2814	1.620	ug/l #	18
76) 1,2,3-Trichloropropane	12.617	75	55199	28.481	ug/l #	1
79) 2-Chlorotoluene	12.806	91	8922	1.156	ug/l #	52
81) trans-1,4-Dichloro-2-b...	12.617	75	55199	65.233	ug/l #	13
82) 4-Chlorotoluene	13.044	91	102486	12.768	ug/l #	46

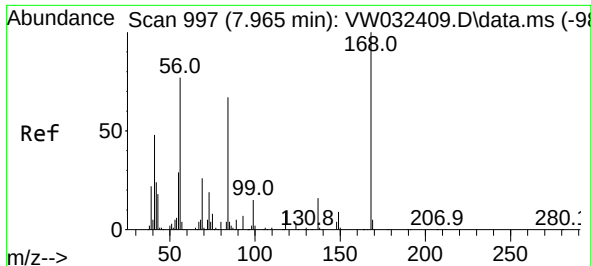
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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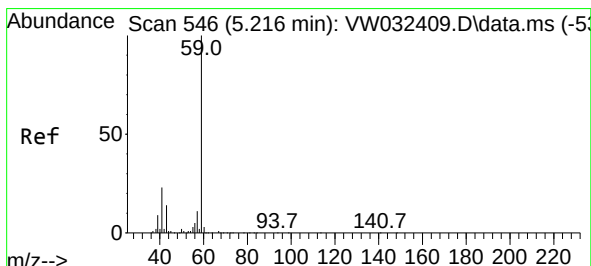
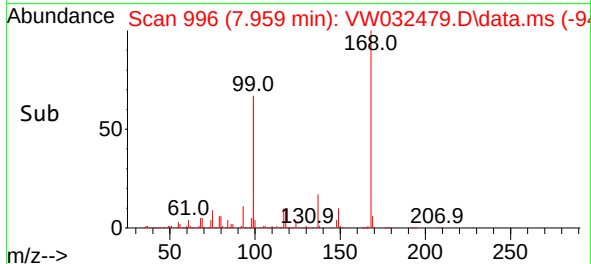
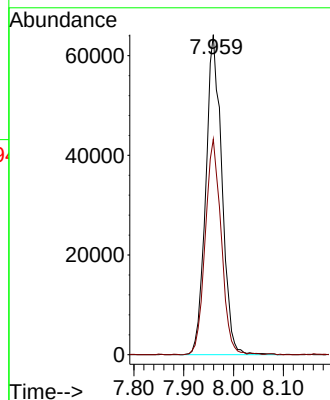
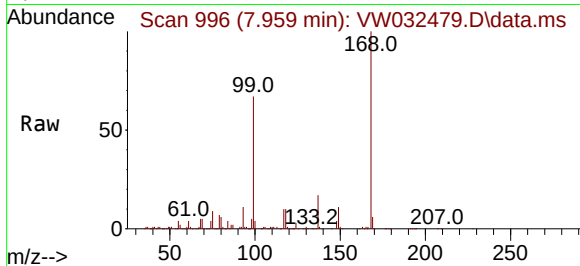




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

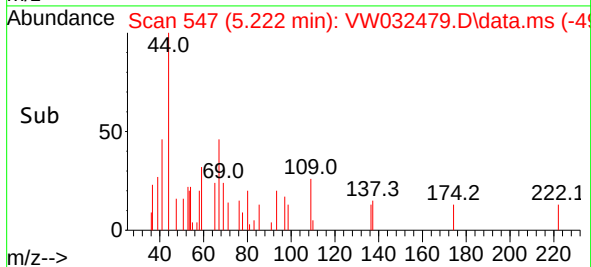
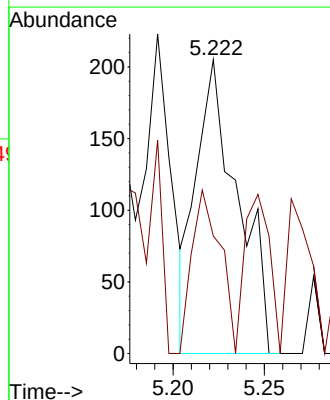
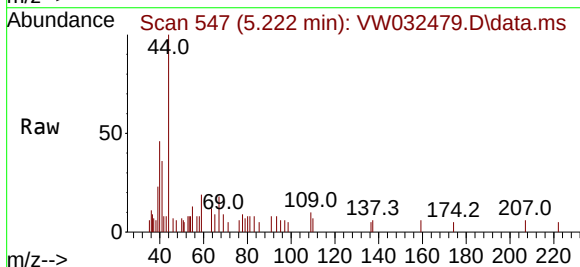
Instrument :
MSVOA_W
ClientSampleId :
VOC

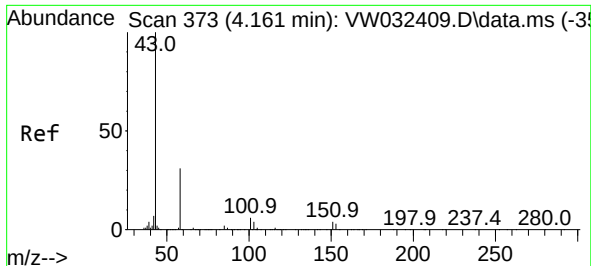
Tgt Ion:168 Resp: 143859
Ion Ratio Lower Upper
168 100
99 67.4 45.4 68.2



#11
Tert butyl alcohol
Concen: 2.020 ug/l
RT: 5.222 min Scan# 547
Delta R.T. 0.006 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion: 59 Resp: 324
Ion Ratio Lower Upper
59 100
57 38.0 8.6 12.8#

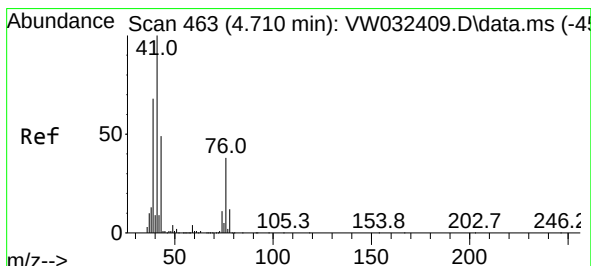
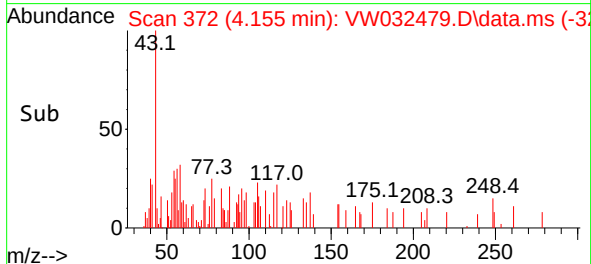
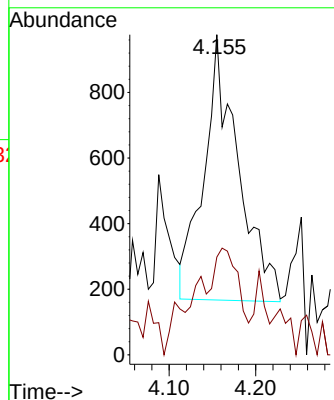
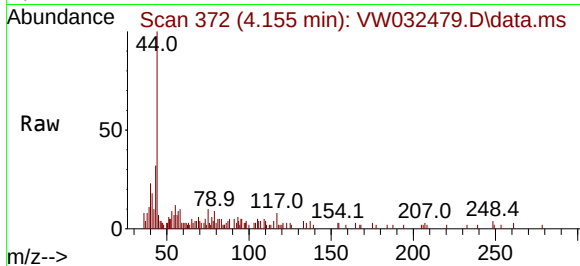




#16
Acetone
Concen: 4.037 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

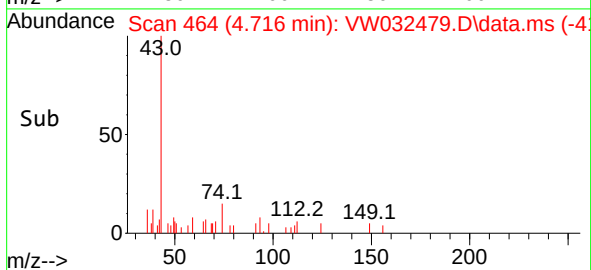
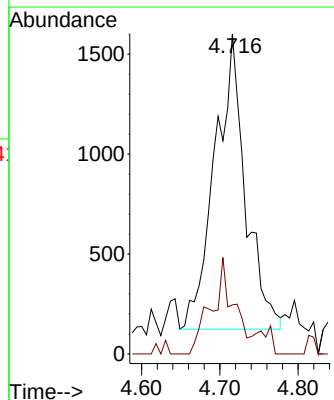
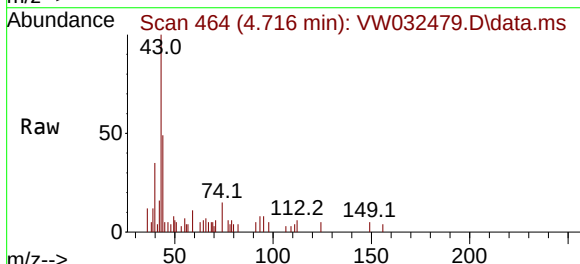
Instrument :
MSVOA_W
ClientSampleId :
VOC

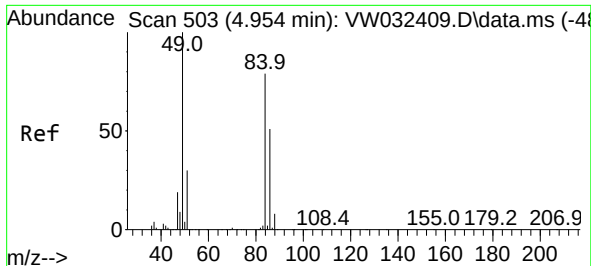
Tgt Ion: 43 Resp: 2240
Ion Ratio Lower Upper
43 100
58 19.6 24.8 37.2#



#18
Methyl Acetate
Concen: 2.920 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion: 43 Resp: 4012
Ion Ratio Lower Upper
43 100
74 24.1 18.9 28.3

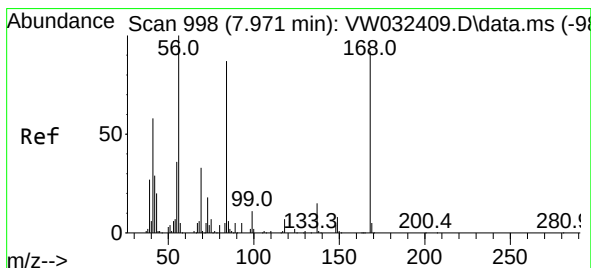
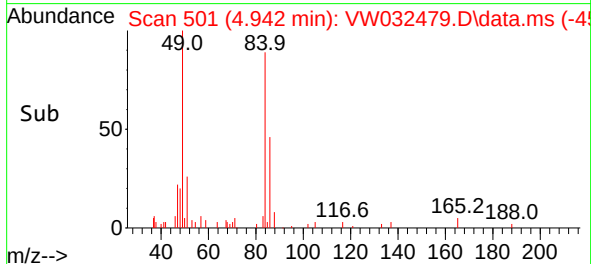
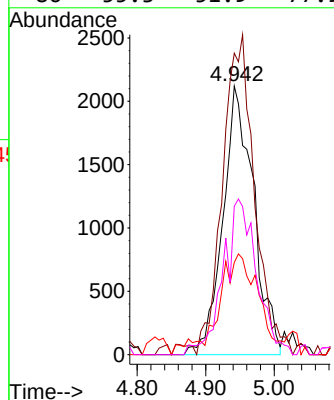
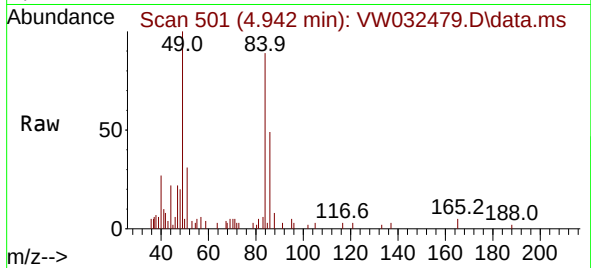




#20
Methylene Chloride
Concen: 3.332 ug/l
RT: 4.942 min Scan# 501
Delta R.T. -0.012 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

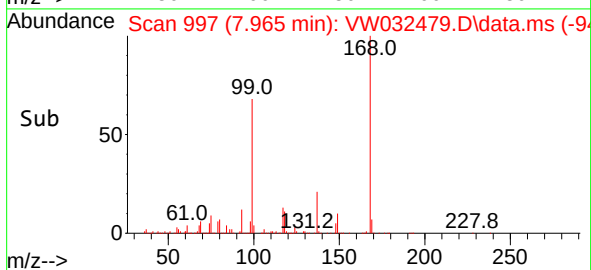
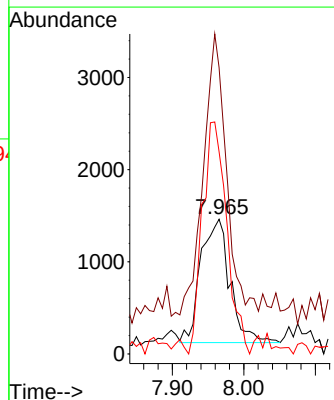
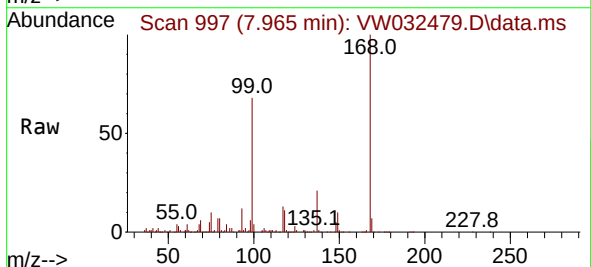
Instrument :
MSVOA_W
ClientSampleId :
VOC

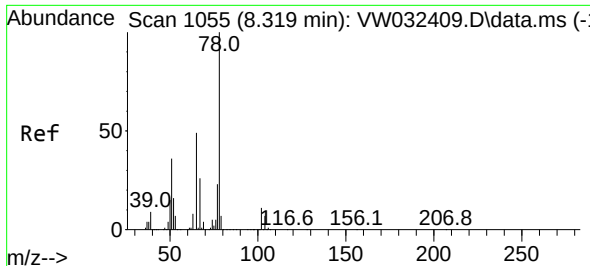
Tgt Ion:	84	Resp:	6612
Ion	Ratio	Lower	Upper
84	100		
49	108.4	101.5	152.3
51	30.8	30.6	46.0
86	55.3	51.9	77.9



#31
Cyclohexane
Concen: 1.233 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion:	56	Resp:	3783
Ion	Ratio	Lower	Upper
56	100		
69	200.7	26.5	39.7#
84	159.3	69.6	104.4#

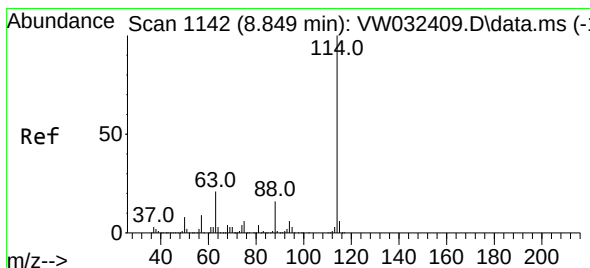
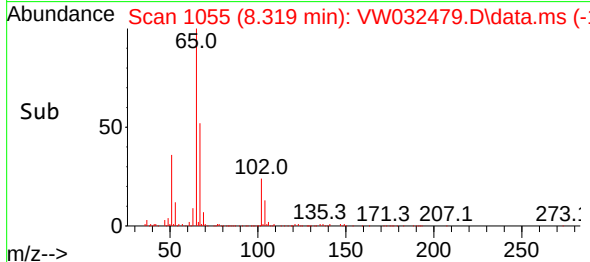
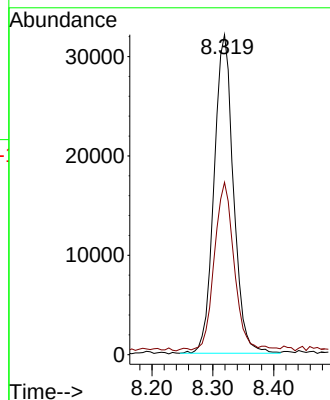
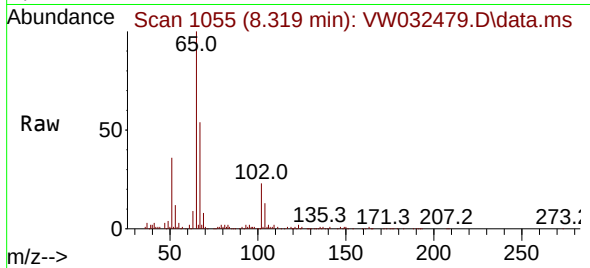




#33
 1,2-Dichloroethane-d4
 Concen: 38.216 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032479.D
 Acq: 18 Nov 2025 14:24

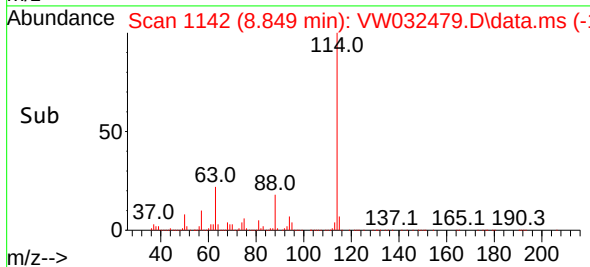
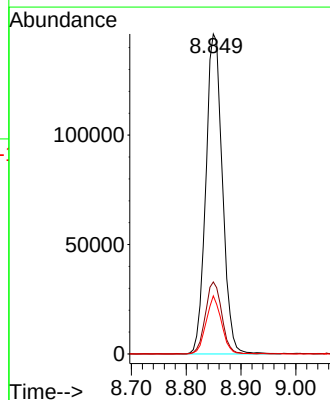
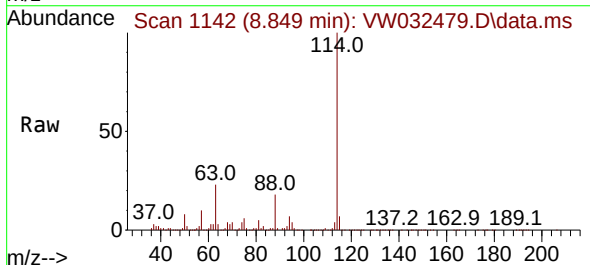
Instrument :
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 ClientSampleId :
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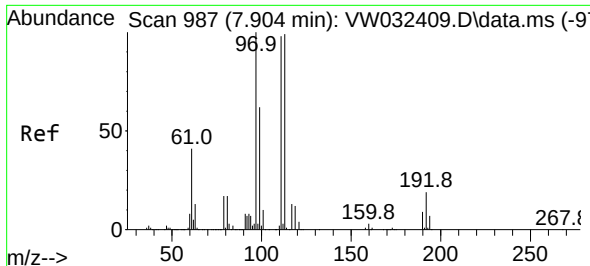
Tgt Ion: 65 Resp: 70878
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: VW032479.D
 Acq: 18 Nov 2025 14:24

Tgt Ion: 114 Resp: 306233
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 41.8
 88 18.2 0.0 32.6

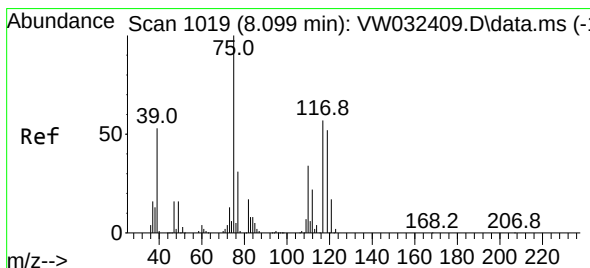
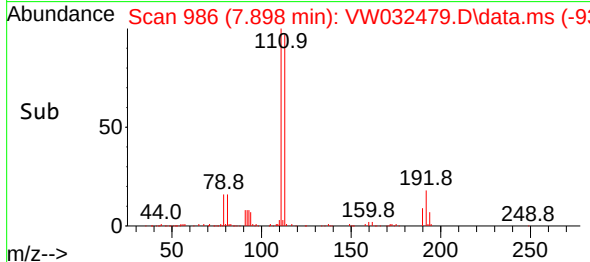
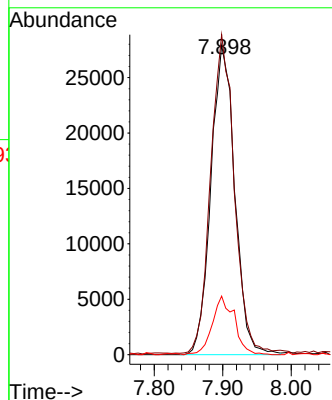
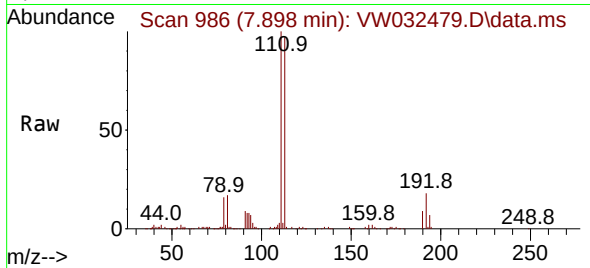




#35
Dibromofluoromethane
Concen: 36.816 ug/l
RT: 7.898 min Scan# 911
Delta R.T. -0.006 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

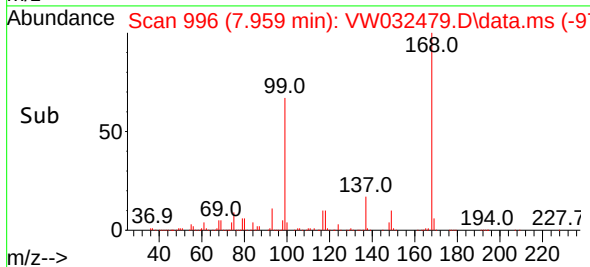
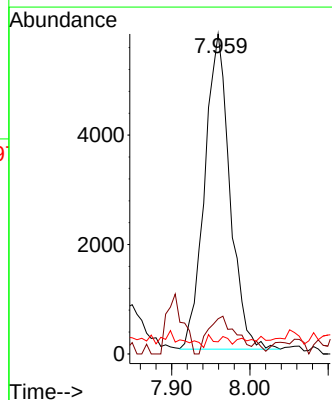
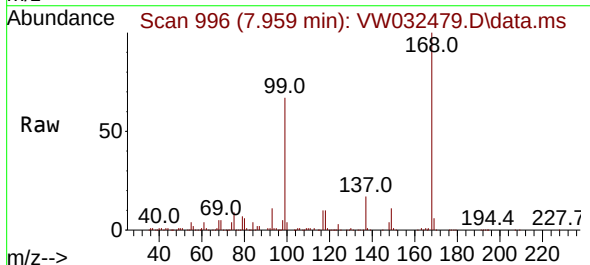
Instrument :
MSVOA_W
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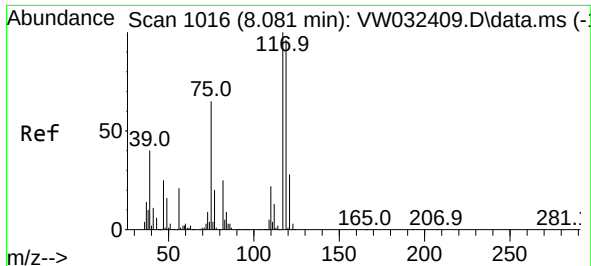
Tgt Ion:113 Resp: 67502
Ion Ratio Lower Upper
113 100
111 102.0 83.1 124.7
192 17.5 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.779 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion: 75 Resp: 12911
Ion Ratio Lower Upper
75 100
110 12.9 17.2 51.5#
77 0.7 24.5 36.7#

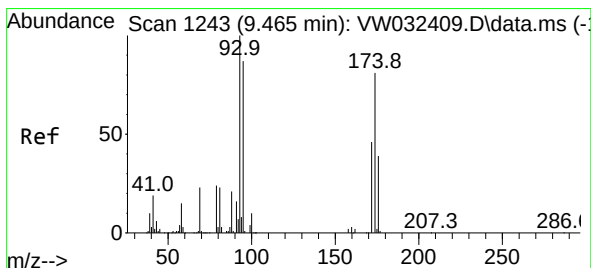
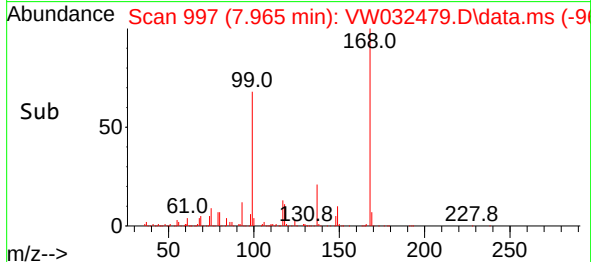
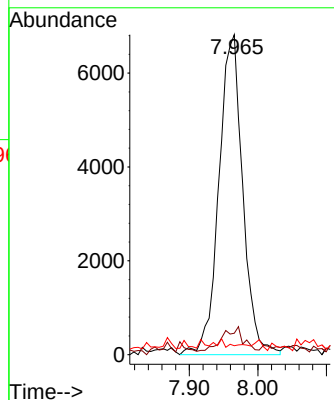
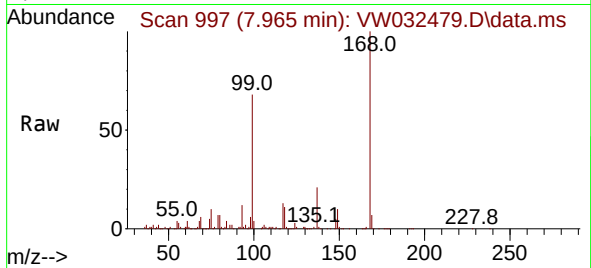




#38
Carbon Tetrachloride
Concen: 6.861 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.116 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

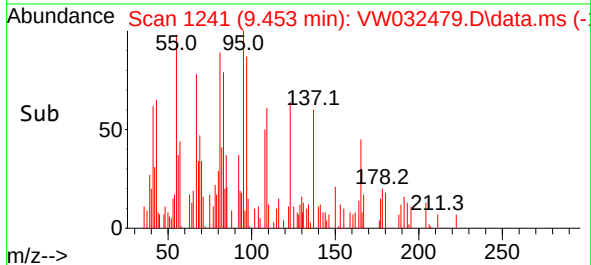
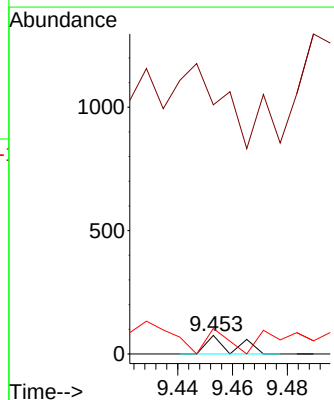
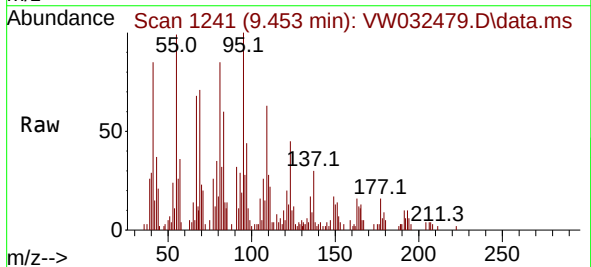
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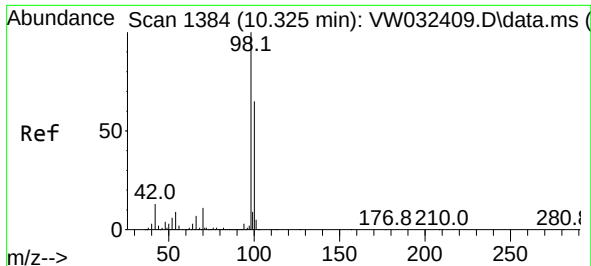
Tgt Ion:117 Resp: 16468
Ion Ratio Lower Upper
117 100
119 4.4 77.0 115.4#
121 0.8 22.0 33.0#



#49
1,4-Dioxane
Concen: 2.763 ug/l
RT: 9.453 min Scan# 1241
Delta R.T. -0.012 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion: 88 Resp: 49
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 116.3 63.0 94.4#

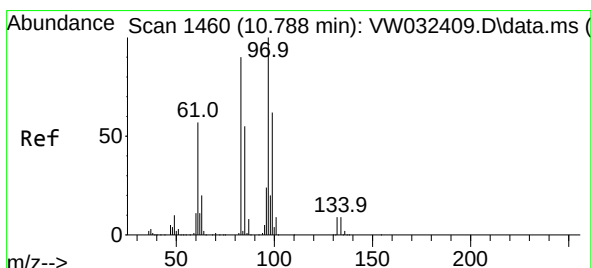
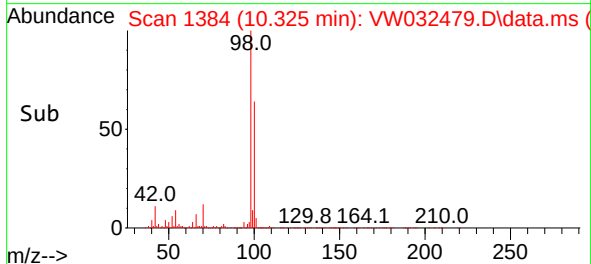
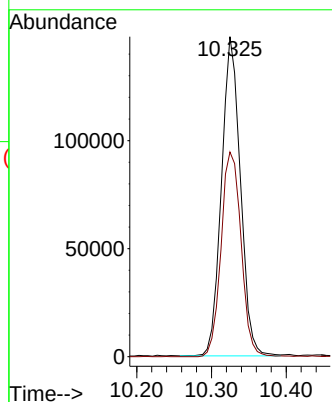
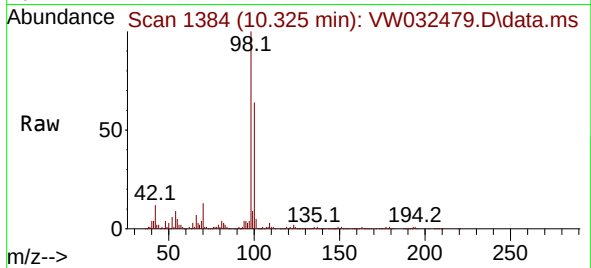




#50
Toluene-d8
Concen: 36.951 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

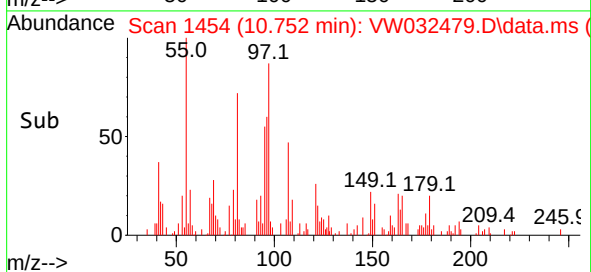
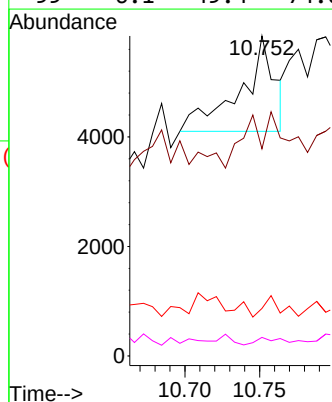
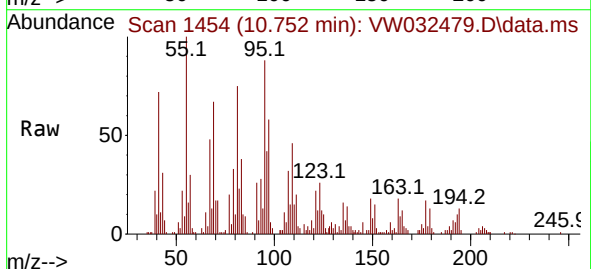
Instrument :
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VOC

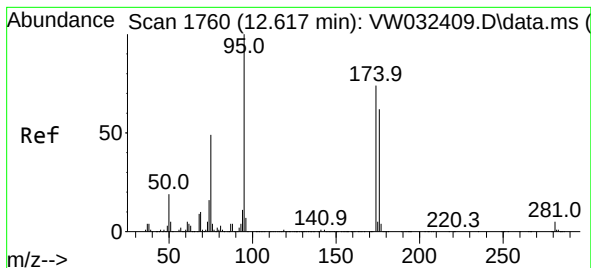
Tgt Ion: 98 Resp: 259912
Ion Ratio Lower Upper
98 100
100 68.0 53.3 79.9



#55
1,1,2-Trichloroethane
Concen: 1.620 ug/l
RT: 10.752 min Scan# 1454
Delta R.T. -0.036 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion: 97 Resp: 2814
Ion Ratio Lower Upper
97 100
83 0.0 72.2 108.4#
85 4.9 43.8 65.8#
99 6.1 49.4 74.0#

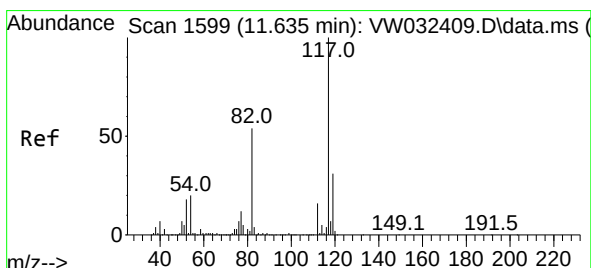
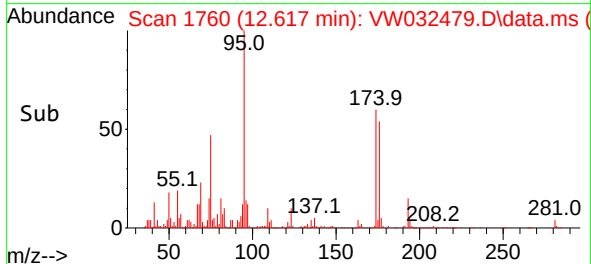
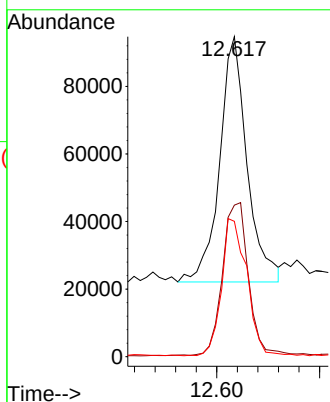
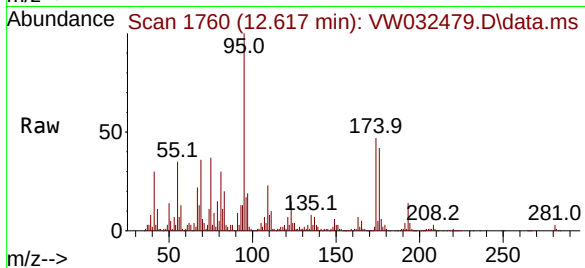




#62
4-Bromofluorobenzene
Concen: 50.552 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

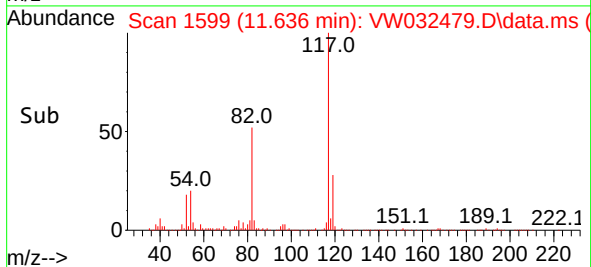
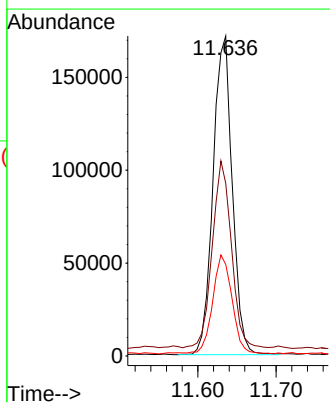
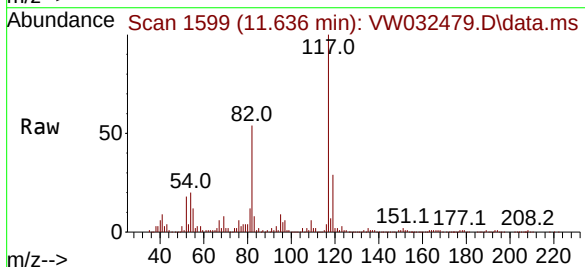
Instrument :
MSVOA_W
ClientSampleId :
VOC

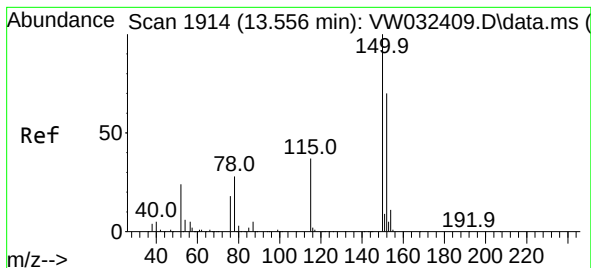
Tgt Ion: 95 Resp: 134324
Ion Ratio Lower Upper
95 100
174 59.5 0.0 135.4
176 51.4 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.636 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion: 117 Resp: 292701
Ion Ratio Lower Upper
117 100
82 51.2 43.0 64.4
119 27.7 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: VW032479.D

Acq: 18 Nov 2025 14:24

Instrument :

MSVOA_W

ClientSampleId :

VOC

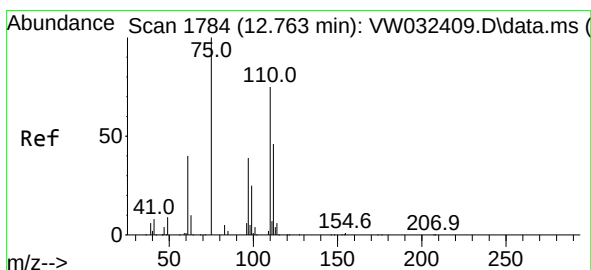
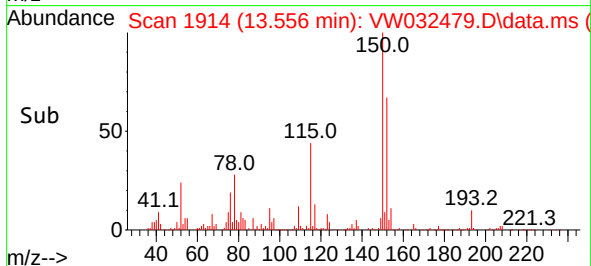
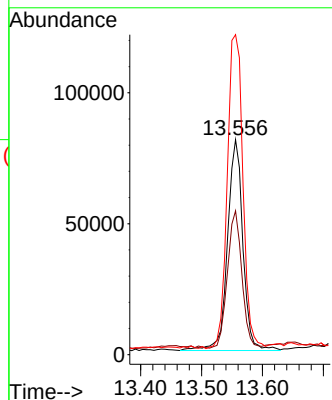
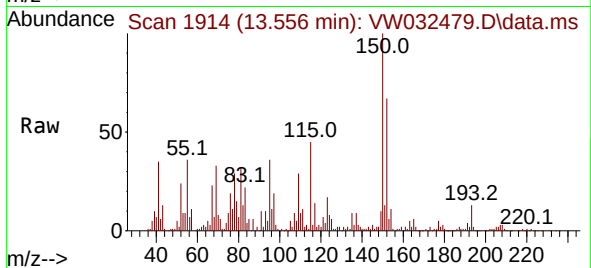
Tgt Ion:152 Resp: 141349

Ion Ratio Lower Upper

152 100

115 61.1 32.8 98.3

150 151.0 0.0 356.6



#76

1,2,3-Trichloropropane

Concen: 28.481 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032479.D

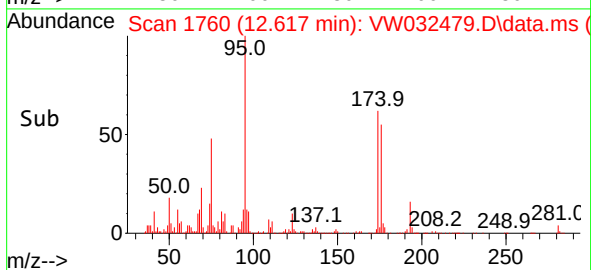
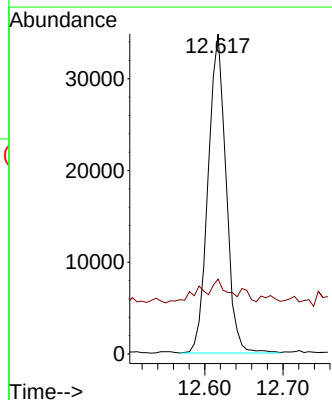
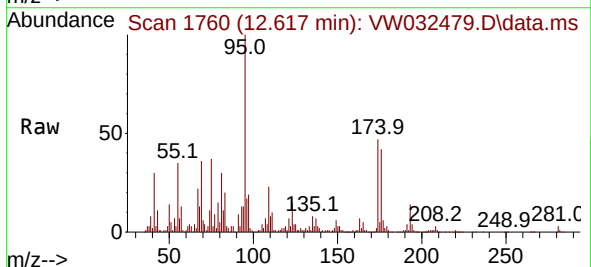
Acq: 18 Nov 2025 14:24

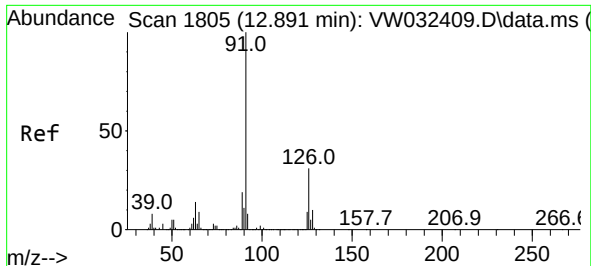
Tgt Ion: 75 Resp: 55199

Ion Ratio Lower Upper

75 100

77 5.0 151.6 454.8#

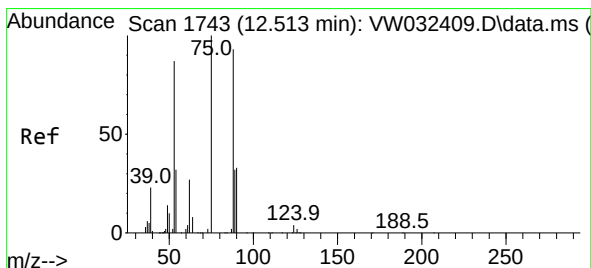
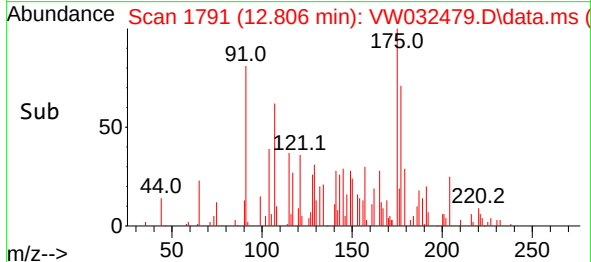
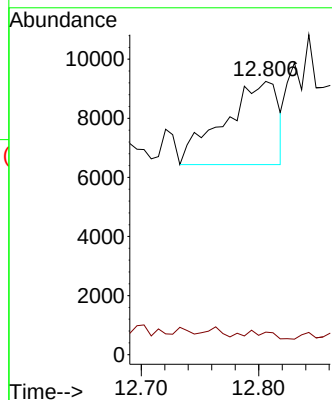
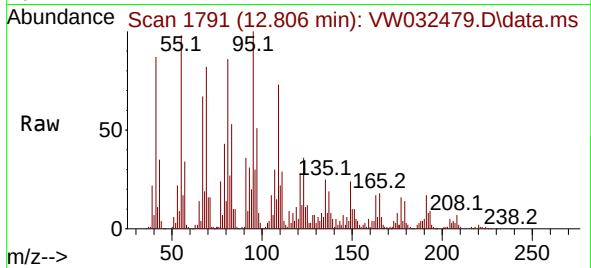




#79
2-Chlorotoluene
Concen: 1.156 ug/l
RT: 12.806 min Scan# 1791
Delta R.T. -0.085 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

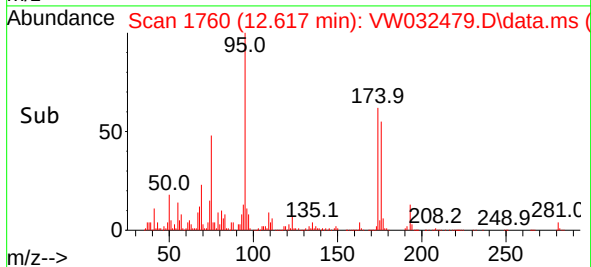
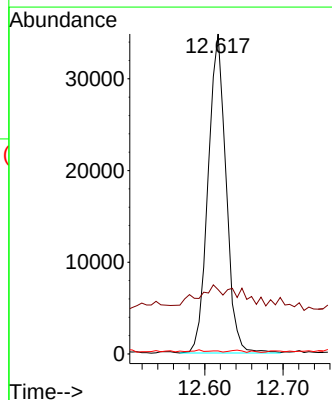
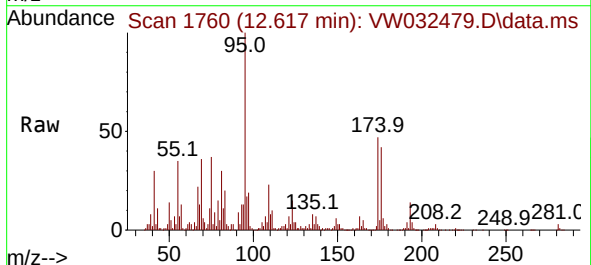
Instrument :
MSVOA_W
ClientSampleId :
VOC

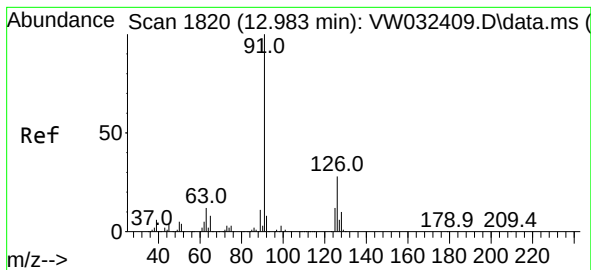
Tgt Ion: 91 Resp: 8922
Ion Ratio Lower Upper
91 100
126 5.1 16.1 48.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.233 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032479.D
Acq: 18 Nov 2025 14:24

Tgt Ion: 75 Resp: 55199
Ion Ratio Lower Upper
75 100
53 2.7 77.8 116.8#
89 0.0 35.6 53.4#





#82
 4-Chlorotoluene
 Concen: 12.768 ug/l
 RT: 13.044 min Scan# 11
 Delta R.T. 0.061 min
 Lab File: VW032479.D
 Acq: 18 Nov 2025 14:24

Instrument :
 MSVOA_W
 ClientSampleId :
 VOC

Tgt Ion: 91 Resp: 102486
 Ion Ratio Lower Upper
 91 100
 126 1.2 15.5 46.5#

