

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092625\
 Data File : VW032281.D
 Acq On : 26 Sep 2025 15:31
 Operator : SY/MD
 Sample : Q3222-01
 Misc : 5.11g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-092625

Quant Time: Sep 29 08:40:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

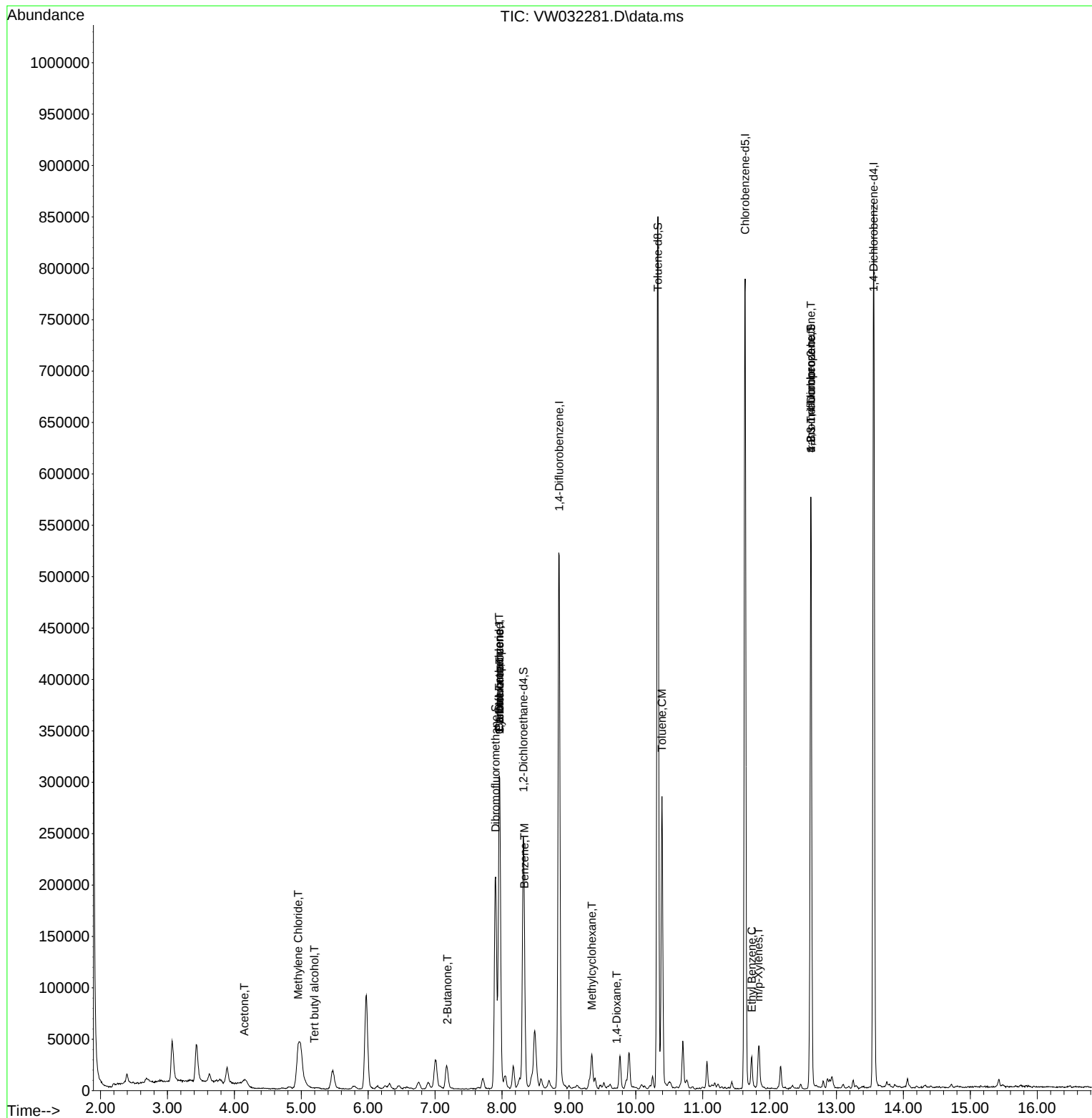
Internal Standards						
1) Pentafluorobenzene	7.959	168	203104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	438603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	431422	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	212662	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	186665	58.206	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	116.420%
35) Dibromofluoromethane	7.904	113	156066	49.477	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	98.960%
50) Toluene-d8	10.331	98	563208	49.543	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	99.080%
62) 4-Bromofluorobenzene	12.617	95	197241	45.998	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	92.000%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.198	59	350	1.572	ug/l #	71
16) Acetone	4.149	43	2174	2.640	ug/l #	65
20) Methylene Chloride	4.954	84	32033	3.797	ug/l	96
25) 2-Butanone	7.185	43	2073	1.806	ug/l #	69
31) Cyclohexane	7.965	56	16940	4.091	ug/l #	56
36) 1,1-Dichloropropene	7.965	75	18773	4.414	ug/l #	51
38) Carbon Tetrachloride	7.959	117	22535	5.632	ug/l #	16
39) Methylcyclohexane	9.343	83	11626	2.363	ug/l	93
40) Benzene	8.337	78	38145	2.850	ug/l	97
49) 1,4-Dioxane	9.715	88	38	1.331	ug/l #	73
52) Toluene	10.392	92	119795	14.439	ug/l	98
67) Ethyl Benzene	11.733	91	19113	1.175	ug/l	95
68) m/p-Xylenes	11.837	106	13781	2.210	ug/l	93
76) 1,2,3-Trichloropropane	12.617	75	103020	35.212	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	103020	91.460	ug/l #	9

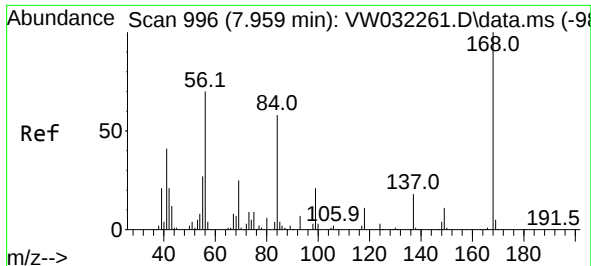
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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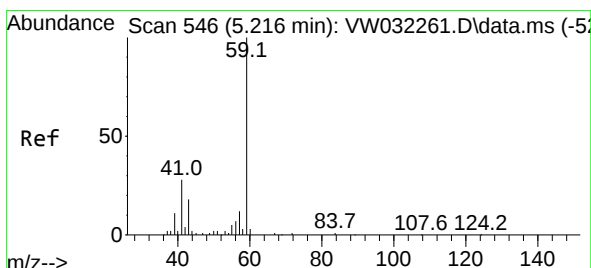
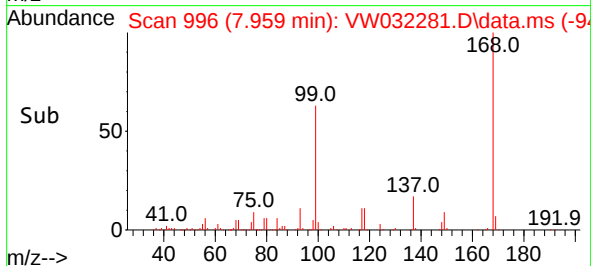
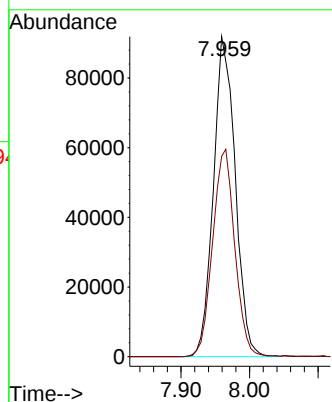
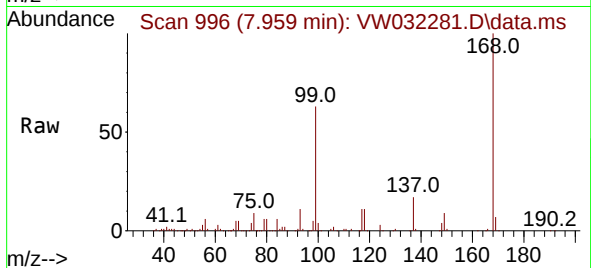




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

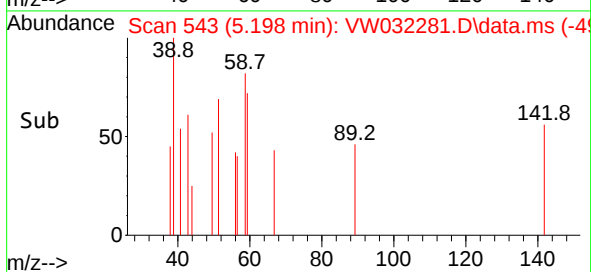
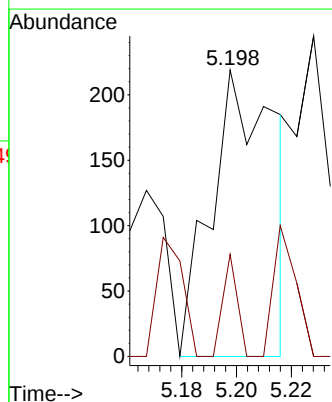
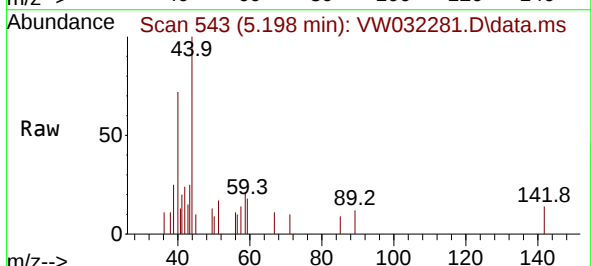
Instrument :
MSVOA_W
ClientSampleId :
SU-03-092625

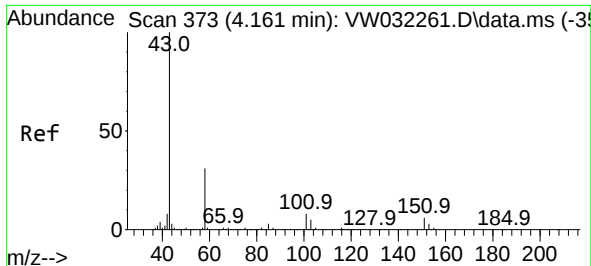
Tgt Ion:168 Resp: 203104
Ion Ratio Lower Upper
168 100
99 62.6 55.0 82.4



#11
Tert butyl alcohol
Concen: 1.572 ug/l
RT: 5.198 min Scan# 543
Delta R.T. -0.018 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

Tgt Ion: 59 Resp: 350
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

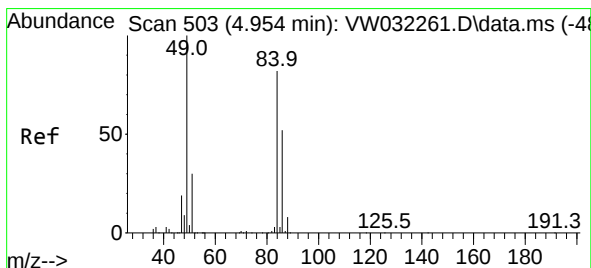
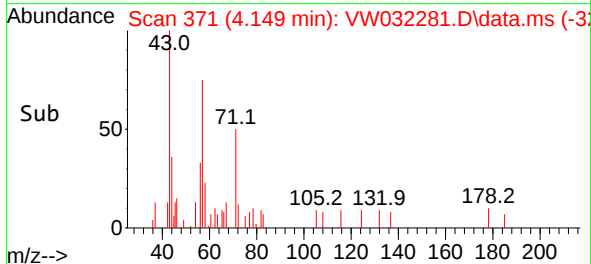
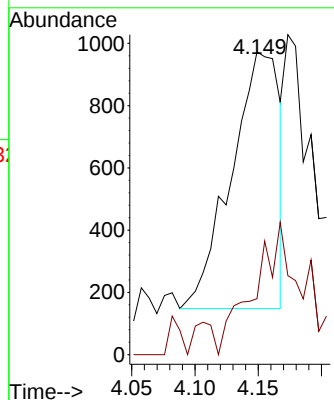
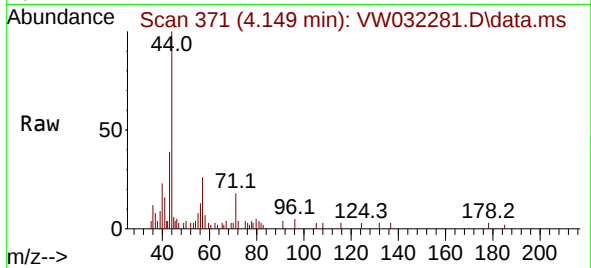




#16
Acetone
Concen: 2.640 ug/l
RT: 4.149 min Scan# 31
Delta R.T. -0.012 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

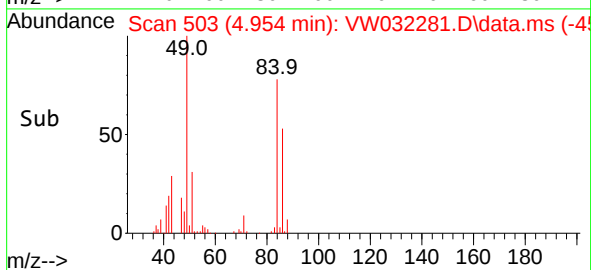
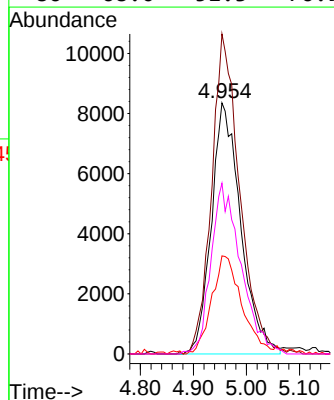
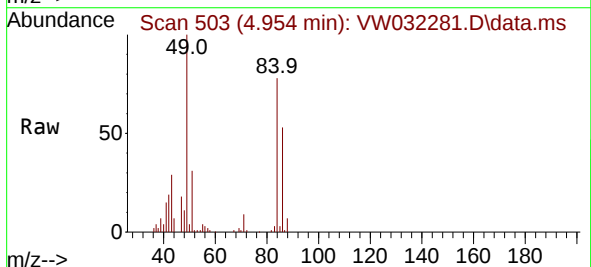
Instrument :
MSVOA_W
ClientSampleId :
SU-03-092625

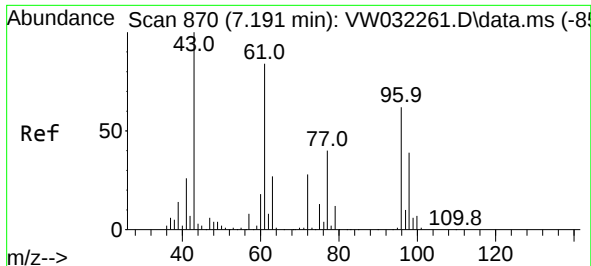
Tgt Ion: 43 Resp: 2174
Ion Ratio Lower Upper
43 100
58 12.4 25.4 38.0#



#20
Methylene Chloride
Concen: 3.797 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.000 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

Tgt Ion: 84 Resp: 32033
Ion Ratio Lower Upper
84 100
49 126.6 97.8 146.6
51 37.9 29.9 44.9
86 68.0 51.3 76.9

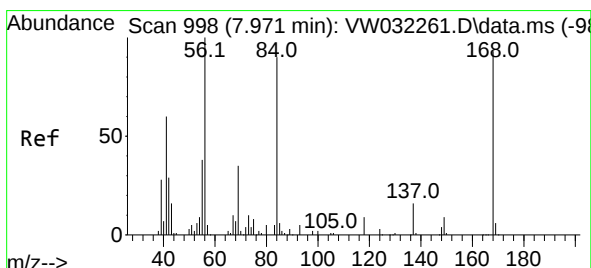
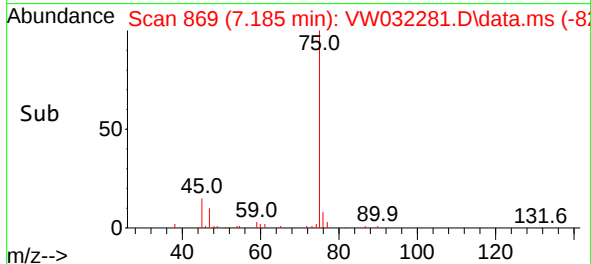
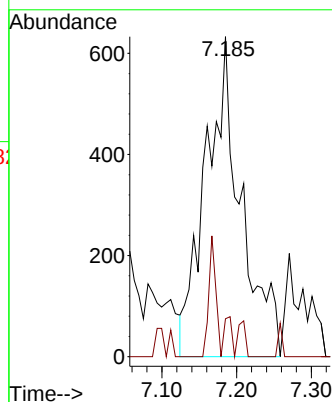
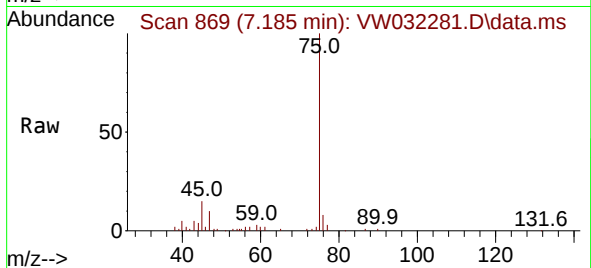




#25
2-Butanone
Concen: 1.806 ug/l
RT: 7.185 min Scan# 80
Delta R.T. -0.006 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

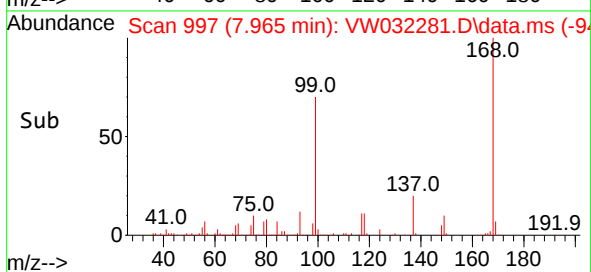
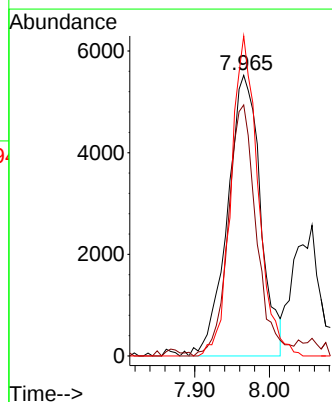
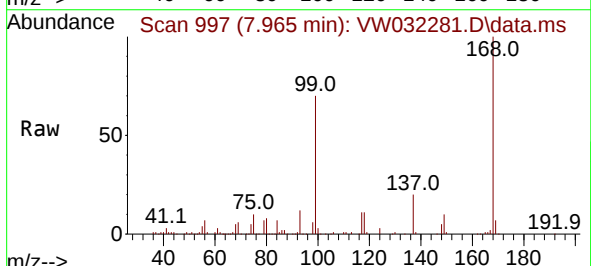
Instrument :
MSVOA_W
ClientSampleId :
SU-03-092625

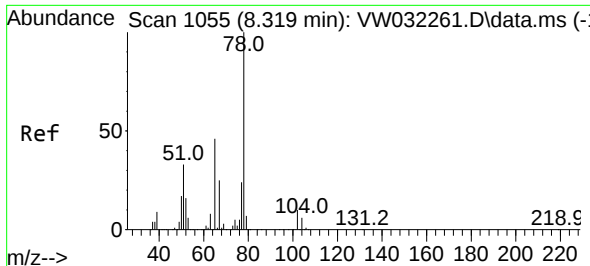
Tgt Ion: 43 Resp: 2073
Ion Ratio Lower Upper
43 100
72 11.8 22.3 33.5#



#31
Cyclohexane
Concen: 4.091 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

Tgt Ion: 56 Resp: 16940
Ion Ratio Lower Upper
56 100
69 88.3 28.2 42.2#
84 114.0 71.8 107.6#

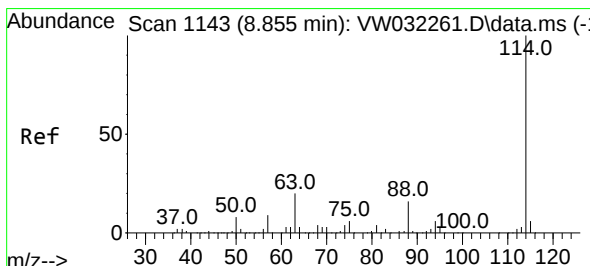
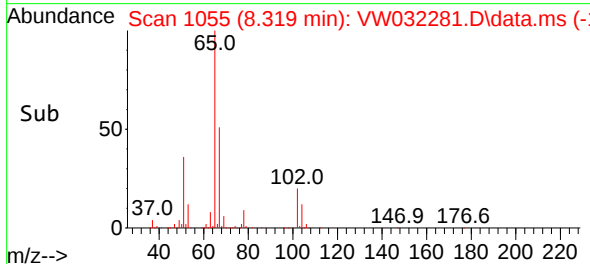
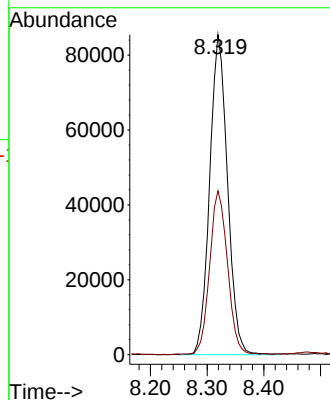
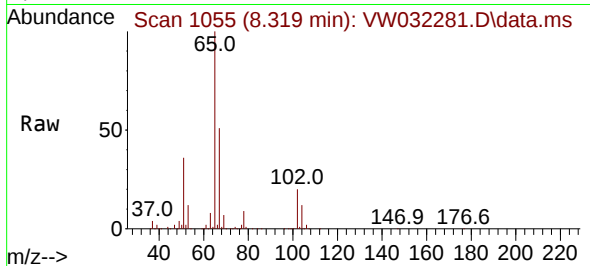




#33
 1,2-Dichloroethane-d4
 Concen: 58.206 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032281.D
 Acq: 26 Sep 2025 15:31

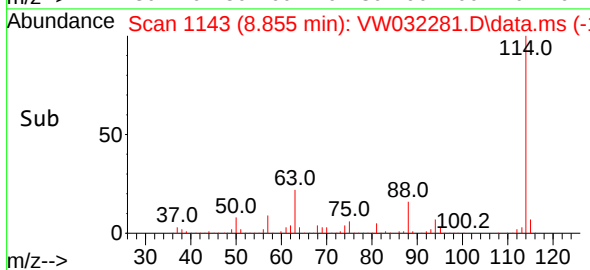
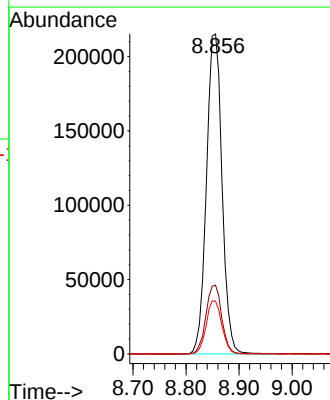
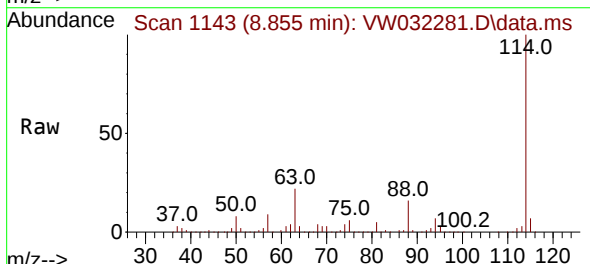
Instrument :
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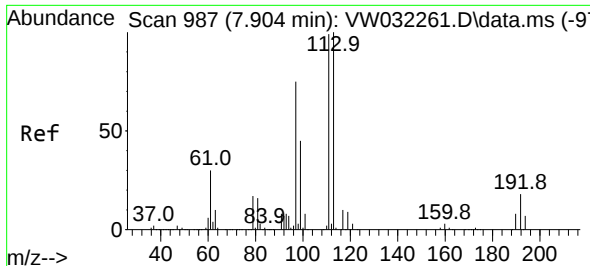
Tgt Ion: 65 Resp: 186665
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.000 min
 Lab File: VW032281.D
 Acq: 26 Sep 2025 15:31

Tgt Ion: 114 Resp: 438603
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 40.2
 88 16.5 0.0 32.0

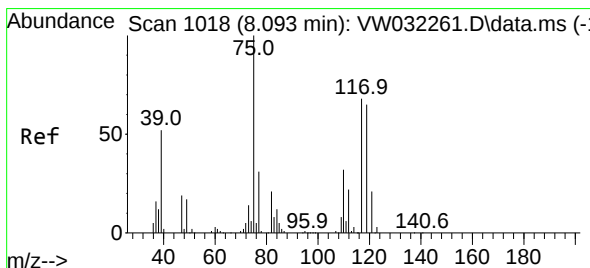
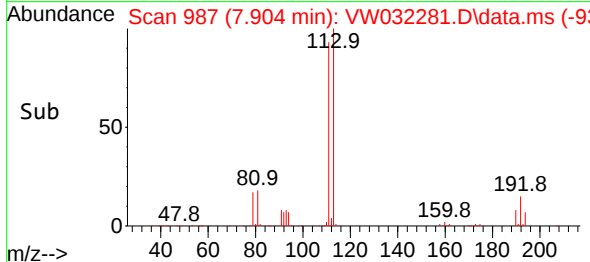
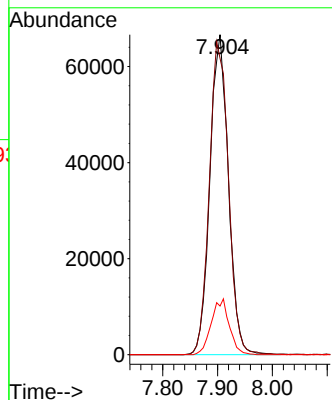
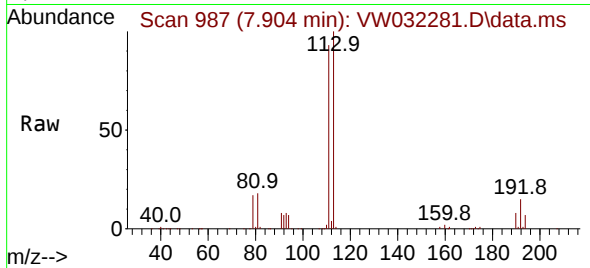




#35
Dibromofluoromethane
Concen: 49.477 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

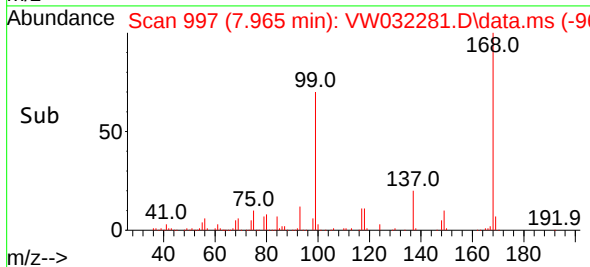
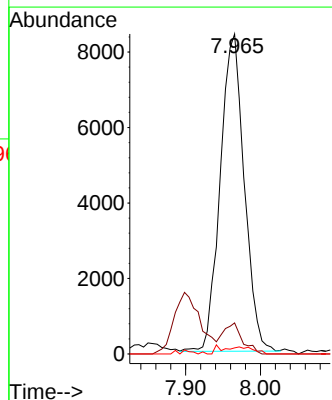
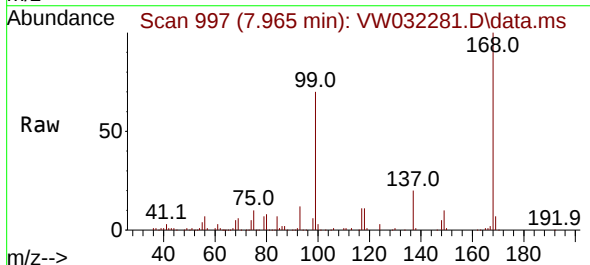
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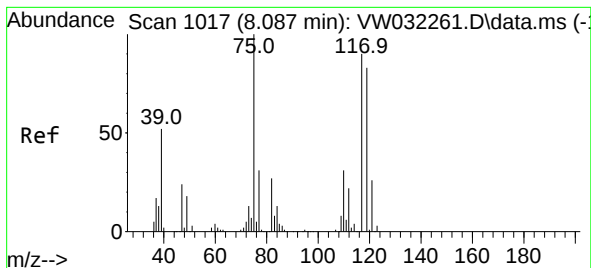
Tgt Ion:113 Resp: 156066
Ion Ratio Lower Upper
113 100
111 101.3 81.8 122.8
192 17.0 13.0 19.4



#36
1,1-Dichloropropene
Concen: 4.414 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.128 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

Tgt Ion: 75 Resp: 18773
Ion Ratio Lower Upper
75 100
110 7.9 16.7 50.1#
77 1.9 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 5.632 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.128 min

Lab File: VW032281.D

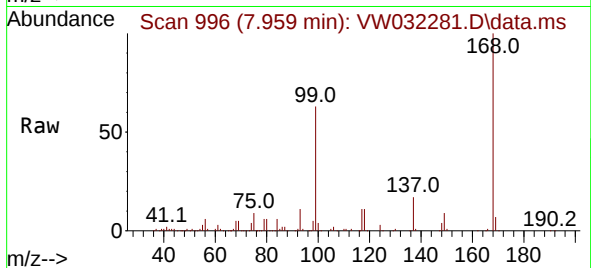
Acq: 26 Sep 2025 15:31

Instrument :

MSVOA_W

ClientSampleId :

SU-03-092625



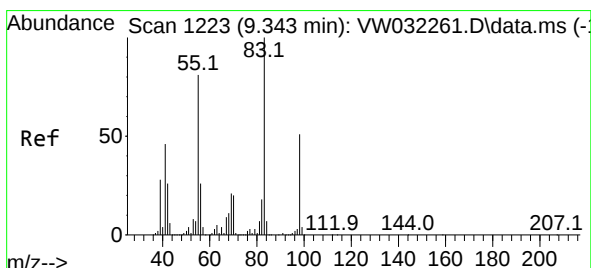
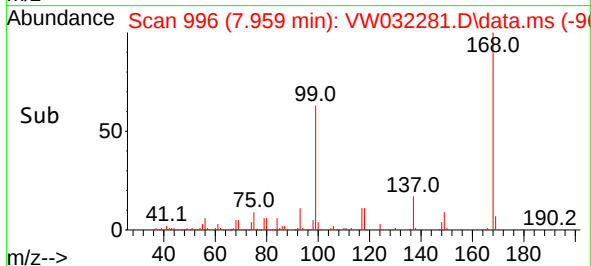
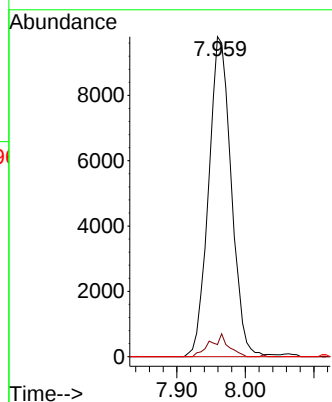
Tgt Ion: 117 Resp: 22535

Ion Ratio Lower Upper

117 100

119 3.8 73.9 110.9#

121 0.0 23.0 34.6#



#39

Methylcyclohexane

Concen: 2.363 ug/l

RT: 9.343 min Scan# 1223

Delta R.T. 0.000 min

Lab File: VW032281.D

Acq: 26 Sep 2025 15:31

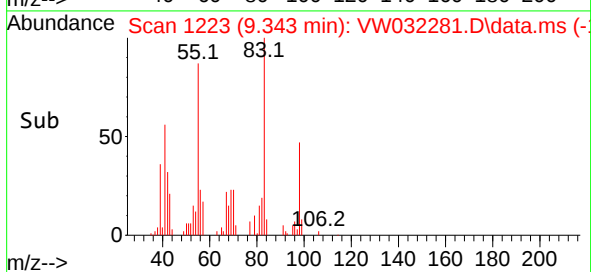
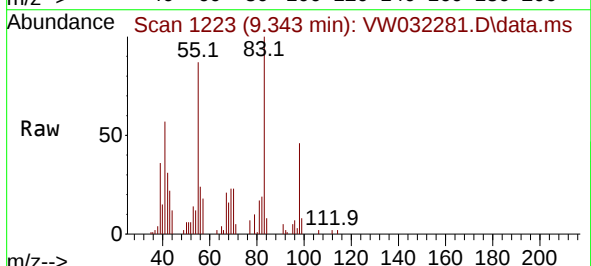
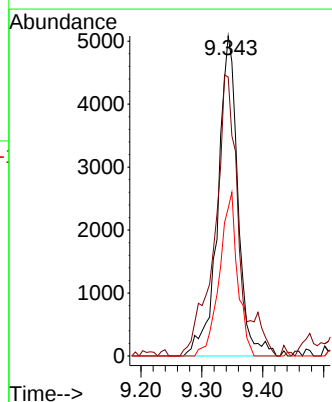
Tgt Ion: 83 Resp: 11626

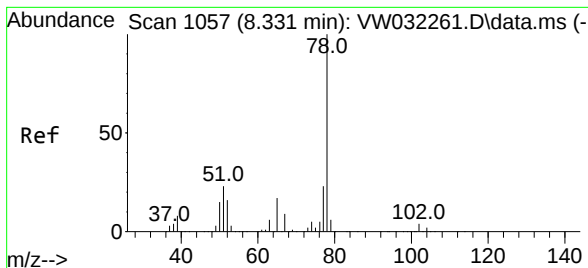
Ion Ratio Lower Upper

83 100

55 87.1 65.0 97.6

98 46.1 40.8 61.2





#40

Benzene

Concen: 2.850 ug/l

RT: 8.337 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VW032281.D

Acq: 26 Sep 2025 15:31

Instrument :

MSVOA_W

ClientSampleId :

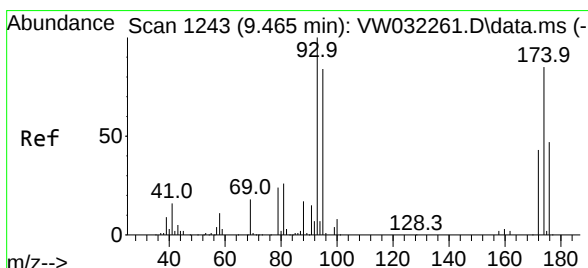
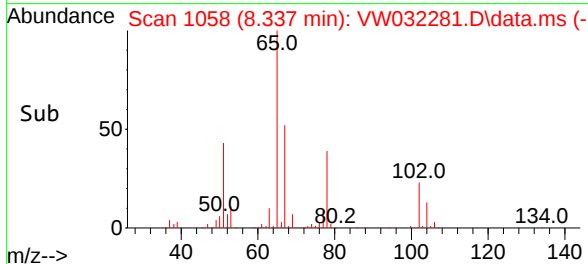
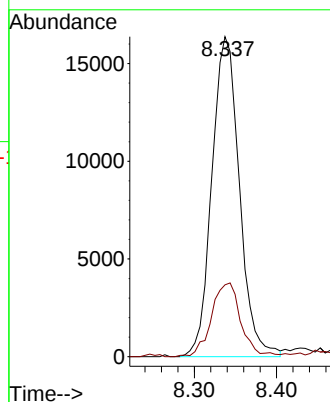
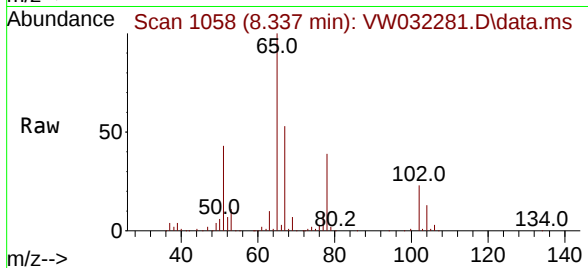
SU-03-092625

Tgt Ion: 78 Resp: 38145

Ion Ratio Lower Upper

78 100

77 22.1 18.7 28.1



#49

1,4-Dioxane

Concen: 1.331 ug/l

RT: 9.715 min Scan# 1284

Delta R.T. 0.250 min

Lab File: VW032281.D

Acq: 26 Sep 2025 15:31

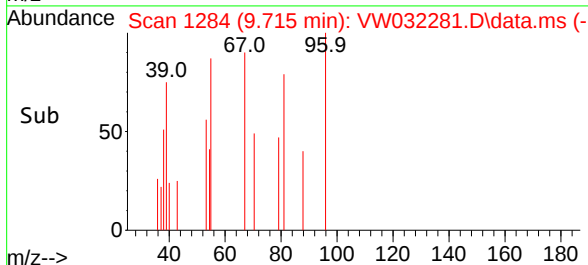
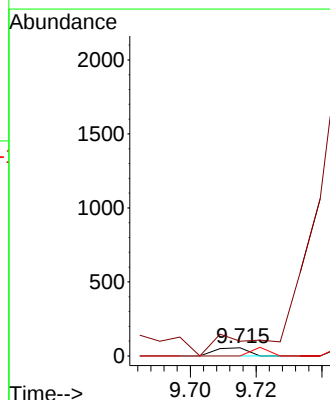
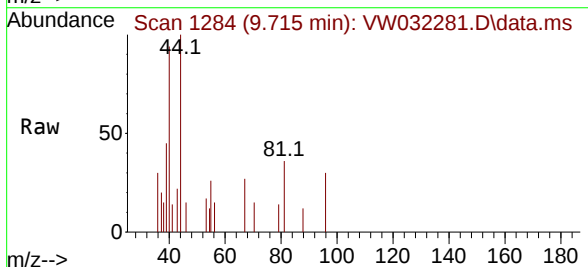
Tgt Ion: 88 Resp: 38

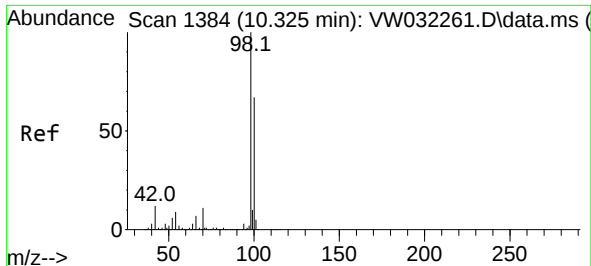
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 55.3 62.9 94.3#

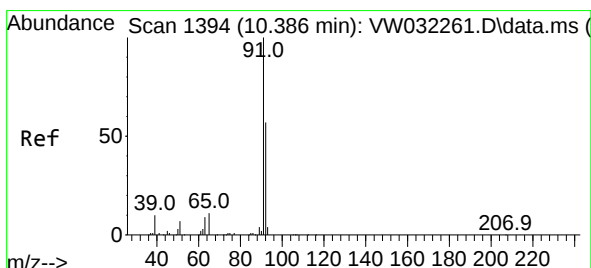
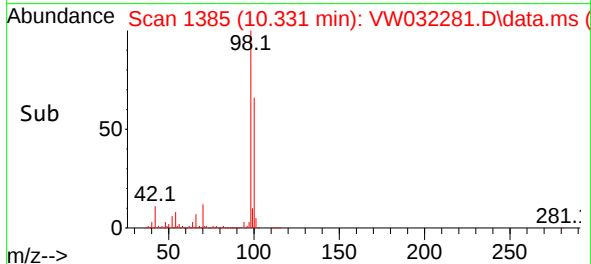
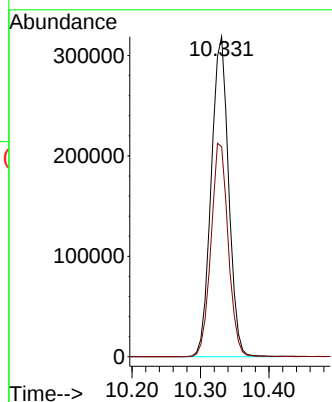
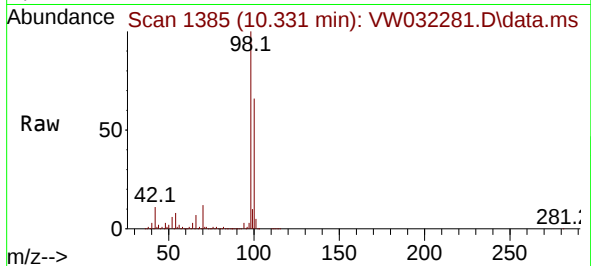




#50
Toluene-d8
Concen: 49.543 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

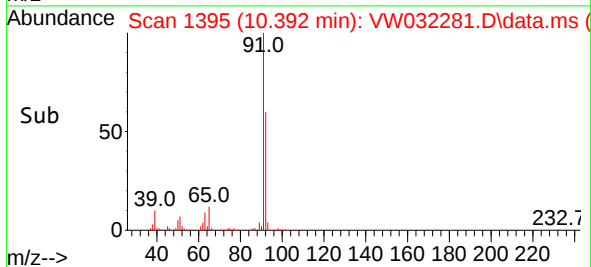
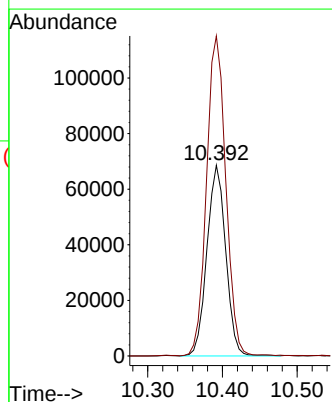
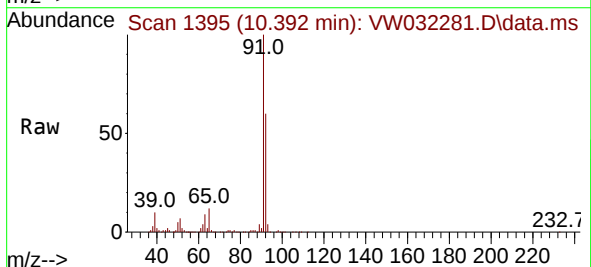
Instrument :
MSVOA_W
ClientSampleId :
SU-03-092625

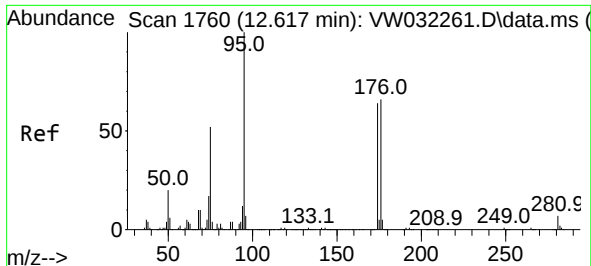
Tgt Ion: 98 Resp: 563208
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.4



#52
Toluene
Concen: 14.439 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.006 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

Tgt Ion: 92 Resp: 119795
Ion Ratio Lower Upper
92 100
91 171.9 139.2 208.8

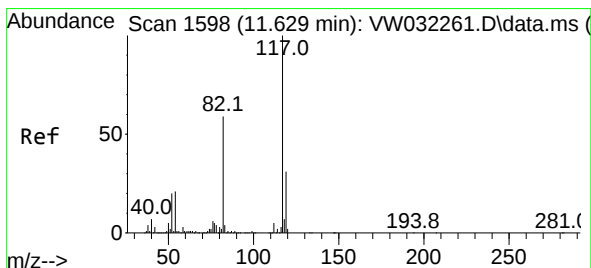
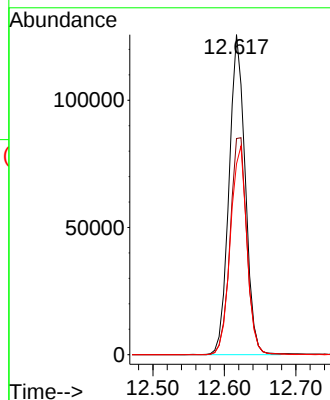
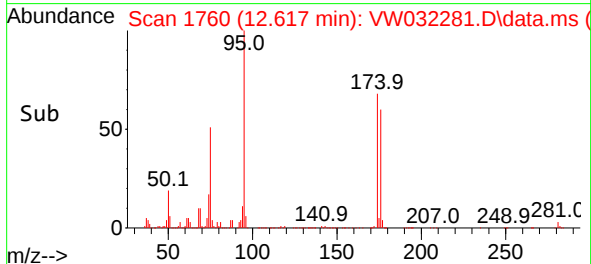
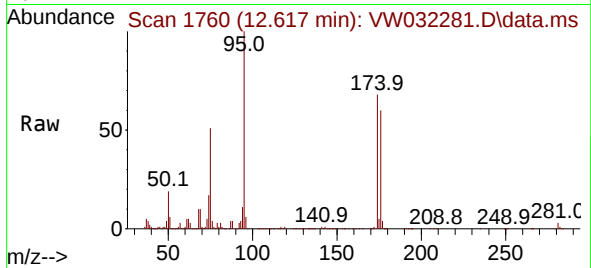




#62
4-Bromofluorobenzene
Concen: 45.998 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

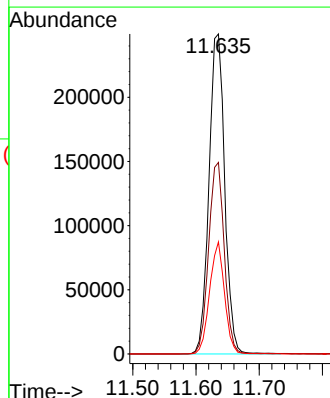
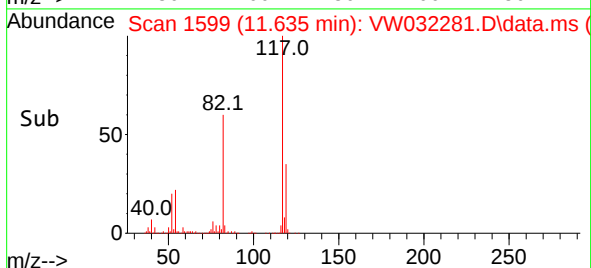
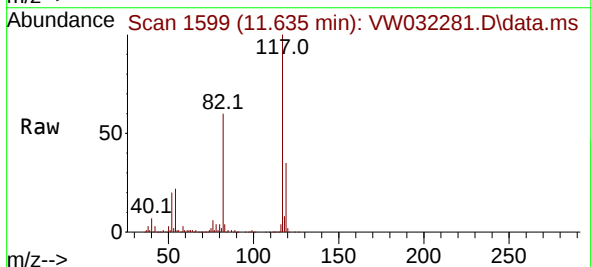
Instrument :
MSVOA_W
ClientSampleId :
SU-03-092625

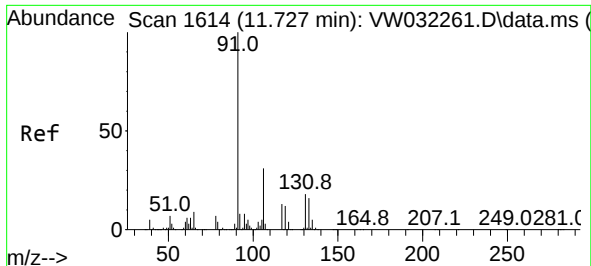
Tgt Ion: 95 Resp: 197241
Ion Ratio Lower Upper
95 100
174 70.3 0.0 130.6
176 66.7 0.0 127.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

Tgt Ion: 117 Resp: 431422
Ion Ratio Lower Upper
117 100
82 59.8 46.9 70.3
119 35.0 24.9 37.3





#67

Ethyl Benzene

Concen: 1.175 ug/l

RT: 11.733 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW032281.D

Acq: 26 Sep 2025 15:31

Instrument :

MSVOA_W

ClientSampleId :

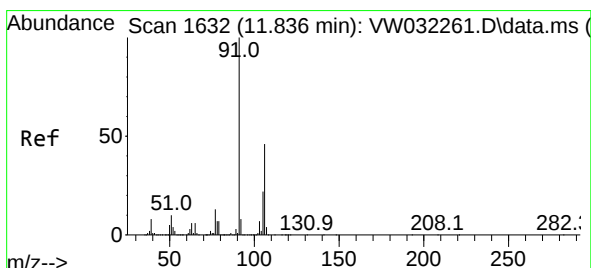
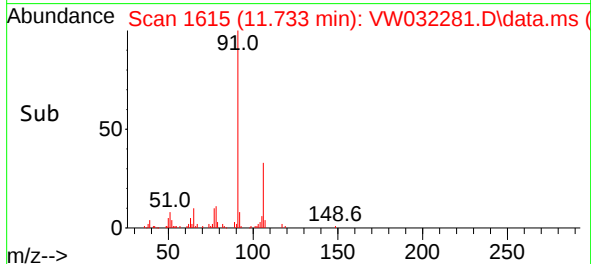
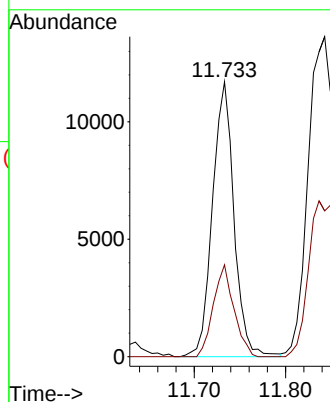
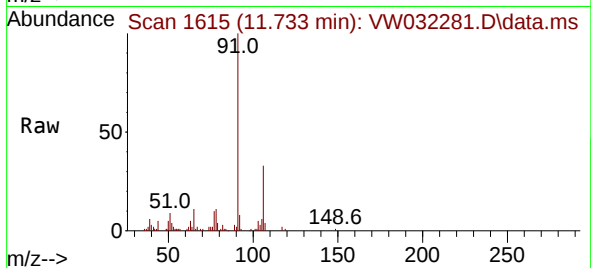
SU-03-092625

Tgt Ion: 91 Resp: 19113

Ion Ratio Lower Upper

91 100

106 33.4 24.7 37.1



#68

m/p-Xylenes

Concen: 2.210 ug/l

RT: 11.837 min Scan# 1632

Delta R.T. 0.000 min

Lab File: VW032281.D

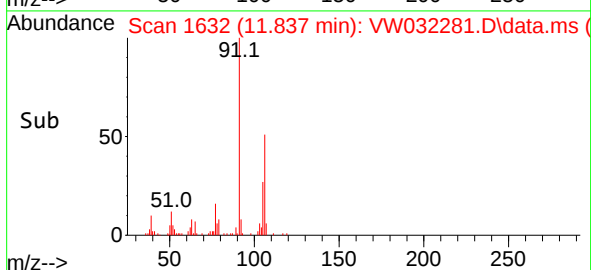
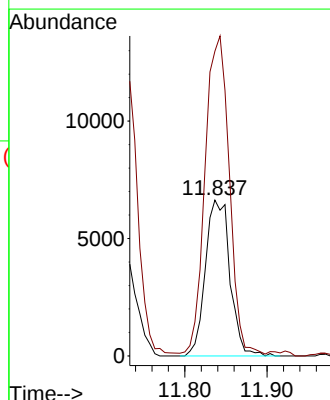
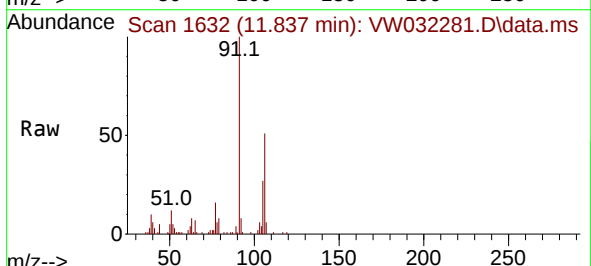
Acq: 26 Sep 2025 15:31

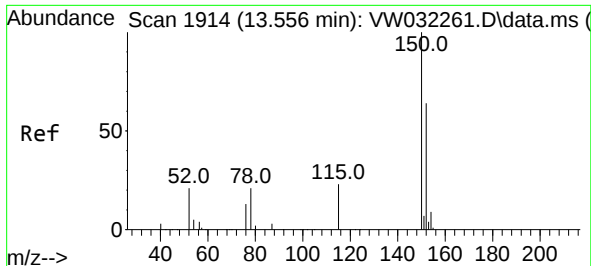
Tgt Ion:106 Resp: 13781

Ion Ratio Lower Upper

106 100

91 200.5 169.0 253.4

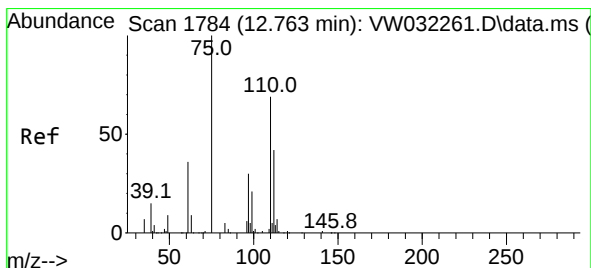
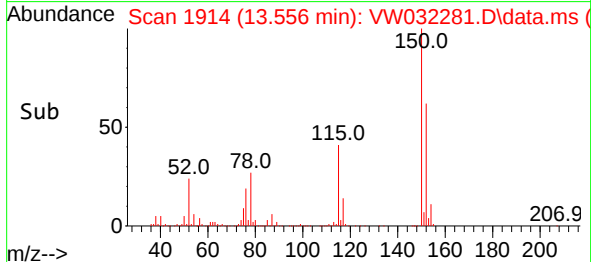
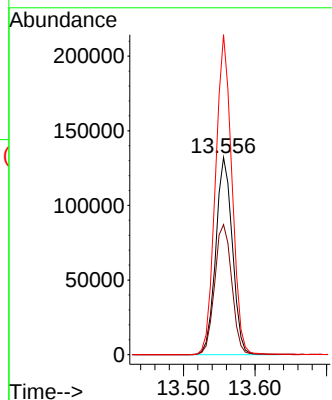
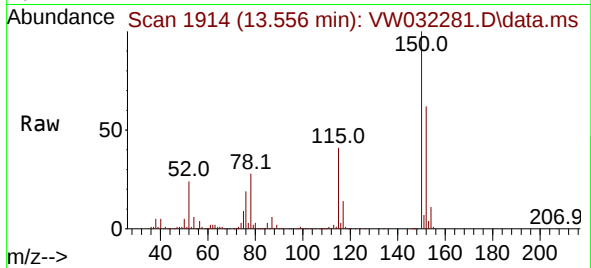




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. 0.000 min
 Lab File: VW032281.D
 Acq: 26 Sep 2025 15:31

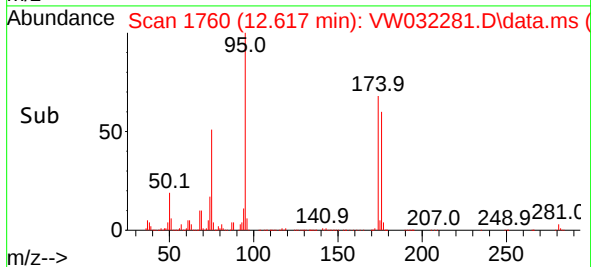
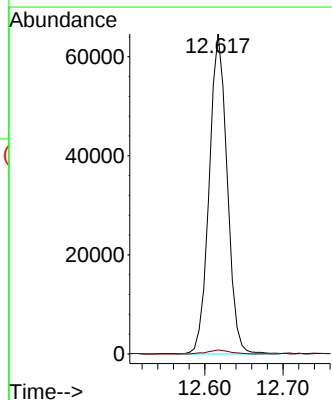
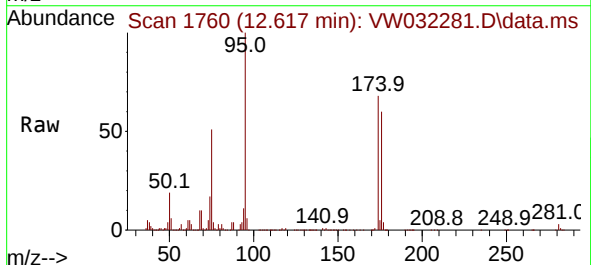
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-092625

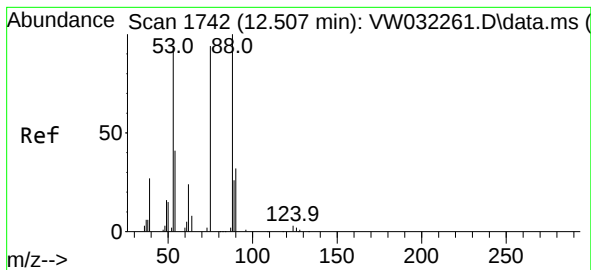
Tgt Ion:152 Resp: 212662
 Ion Ratio Lower Upper
 152 100
 115 68.1 32.5 97.5
 150 160.9 0.0 370.2



#76
 1,2,3-Trichloropropane
 Concen: 35.212 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.146 min
 Lab File: VW032281.D
 Acq: 26 Sep 2025 15:31

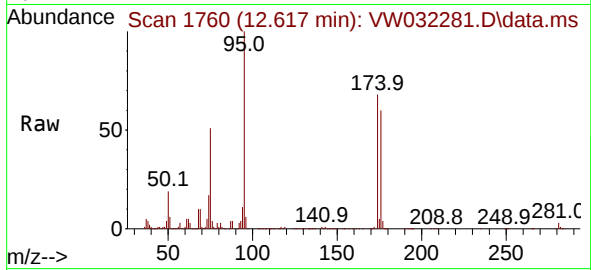
Tgt Ion: 75 Resp: 103020
 Ion Ratio Lower Upper
 75 100
 77 1.5 140.9 422.7#





#81
trans-1,4-Dichloro-2-butene
Concen: 91.460 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.110 min
Lab File: VW032281.D
Acq: 26 Sep 2025 15:31

Instrument :
MSVOA_W
ClientSampleId :
SU-03-092625



Tgt Ion: 75 Resp: 103020
Ion Ratio Lower Upper
75 100
53 0.2 81.4 122.2#
89 0.1 35.4 53.2#

