

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039152.D
 Acq On : 24 Sep 2025 15:08
 Operator : SY/MD
 Sample : Q3173-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 OBS1

Quant Time: Sep 25 04:47:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

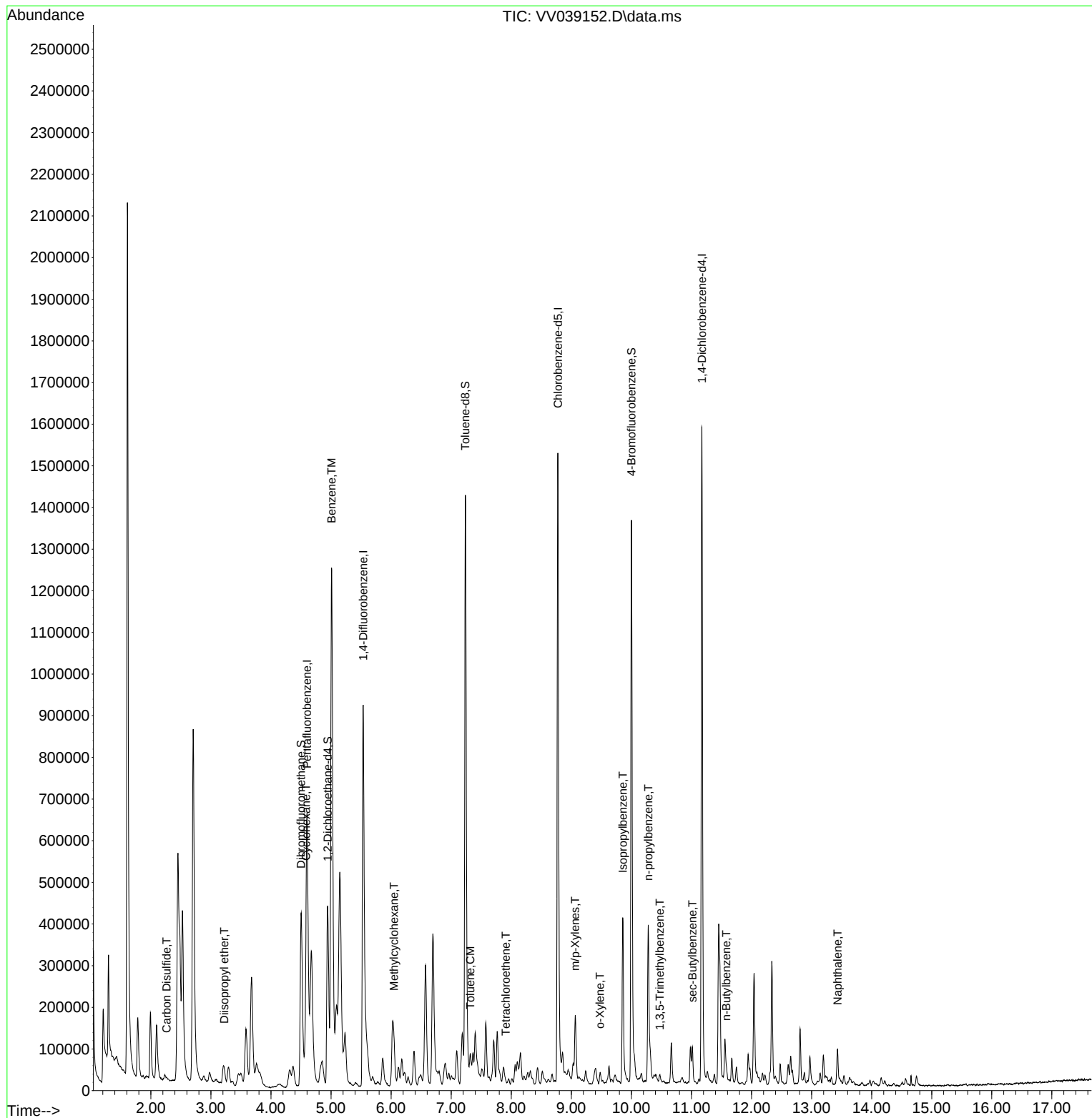
Internal Standards						
1) Pentafluorobenzene	4.600	168	483819	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	891080	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	856052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	408468	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	388143	55.431	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 110.860%	
35) Dibromofluoromethane	4.503	113	349859	48.839	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 97.680%	
50) Toluene-d8	7.236	98	999940	47.527	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 95.060%	
62) 4-Bromofluorobenzene	10.001	95	447257	51.638	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 103.280%	
Target Compounds						
					Qvalue	
17) Carbon Disulfide	2.262	76	11847	0.531	ug/l	99
22) Diisopropyl ether	3.224	45	29284	1.175	ug/l #	32
31) Cyclohexane	4.584	56	71365	5.714	ug/l #	94
39) Methylcyclohexane	6.047	83	48032	3.672	ug/l #	71
40) Benzene	5.008	78	1426675	40.452	ug/l	100
52) Toluene	7.320	92	27552	1.347	ug/l	95
64) Tetrachloroethene	7.908	164	1965	0.274	ug/l	90
68) m/p-Xylenes	9.066	106	41405	2.972	ug/l	92
69) o-Xylene	9.477	106	6368	0.516	ug/l	75
73) Isopropylbenzene	9.857	105	239091	8.070	ug/l	99
78) n-propylbenzene	10.281	91	286813	7.950	ug/l	98
80) 1,3,5-Trimethylbenzene	10.474	105	10536	0.428	ug/l	96
85) sec-Butylbenzene	11.014	105	52963	1.626	ug/l	96
89) n-Butylbenzene	11.580	91	15680	0.606	ug/l #	81
95) Naphthalene	13.432	128	70065	2.602	ug/l	97

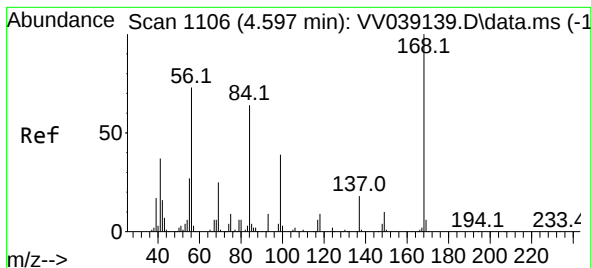
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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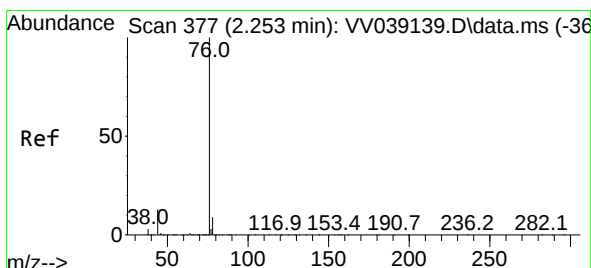
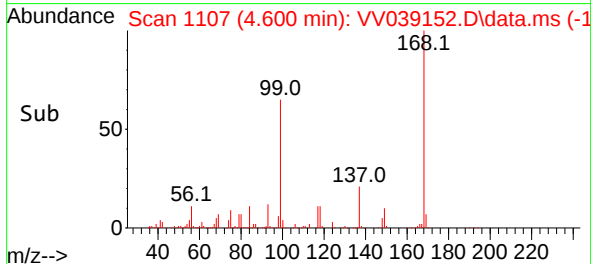
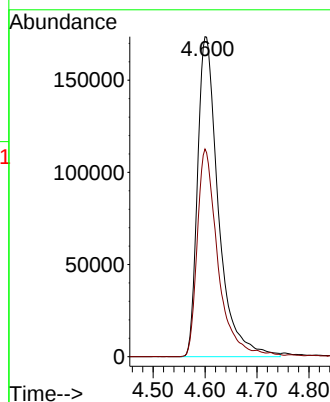
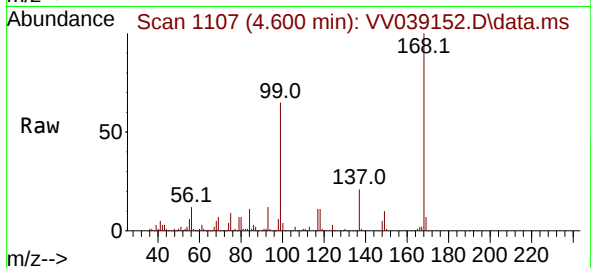




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

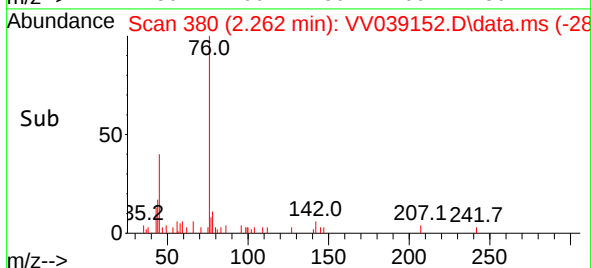
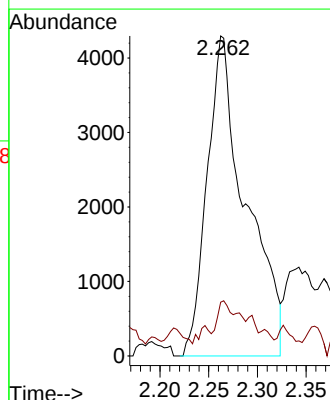
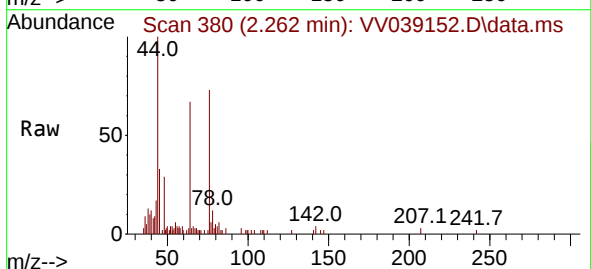
Instrument :
MSVOA_V
ClientSampleId :
OBS1

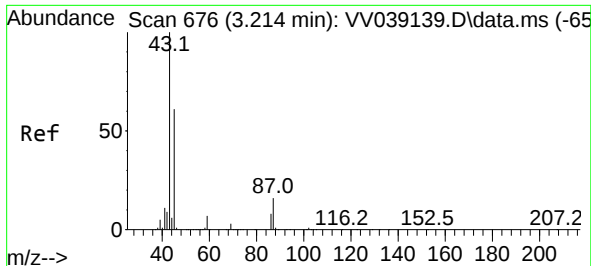
Tgt Ion:168 Resp: 483819
Ion Ratio Lower Upper
168 100
99 64.9 49.6 74.4



#17
Carbon Disulfide
Concen: 0.531 ug/l
RT: 2.262 min Scan# 380
Delta R.T. 0.010 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

Tgt Ion: 76 Resp: 11847
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0

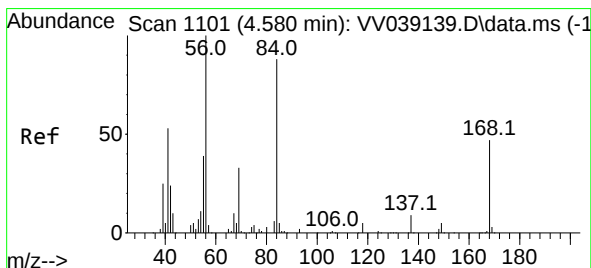
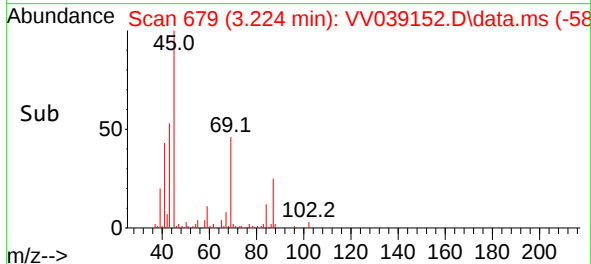
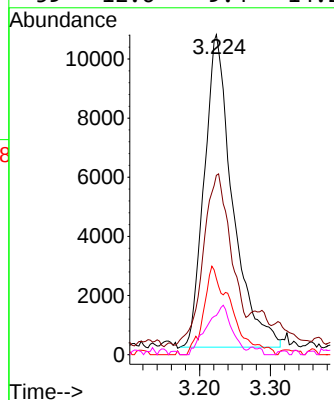
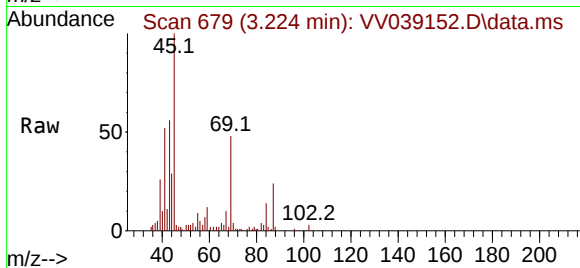




#22
Diisopropyl ether
Concen: 1.175 ug/l
RT: 3.224 min Scan# 61
Delta R.T. 0.010 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

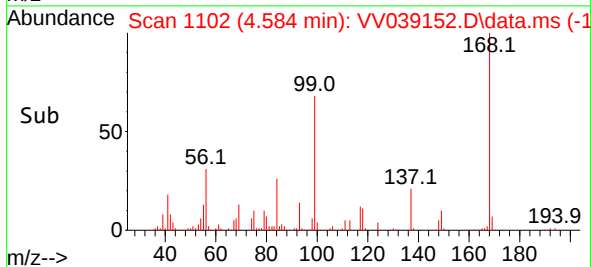
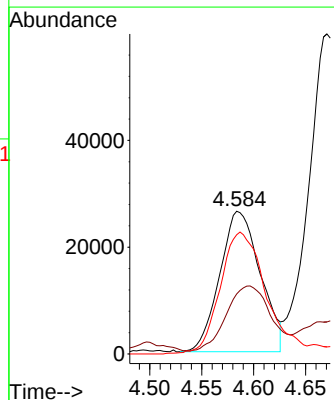
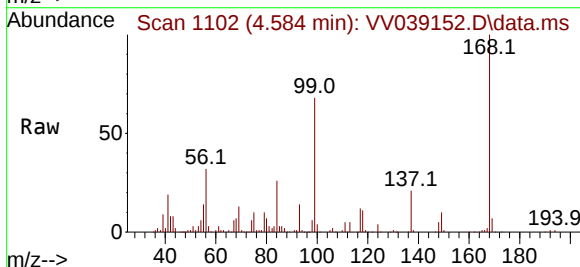
Instrument :
MSVOA_V
ClientSampleId :
OBS1

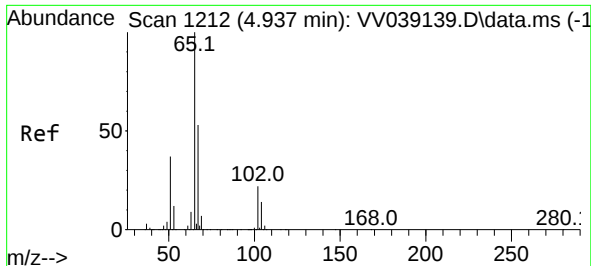
Tgt Ion:	45	Resp:	29284
Ion	Ratio	Lower	Upper
45	100		
43	52.7	130.9	196.3#
87	24.4	21.1	31.7
59	12.6	9.4	14.2



#31
Cyclohexane
Concen: 5.714 ug/l
RT: 4.584 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

Tgt Ion:	56	Resp:	71365
Ion	Ratio	Lower	Upper
56	100		
69	39.7	26.2	39.2#
84	84.1	70.3	105.5





#33

1,2-Dichloroethane-d4

Concen: 55.431 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

Instrument :

MSVOA_V

ClientSampleId :

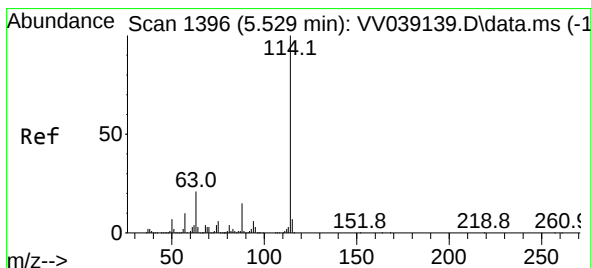
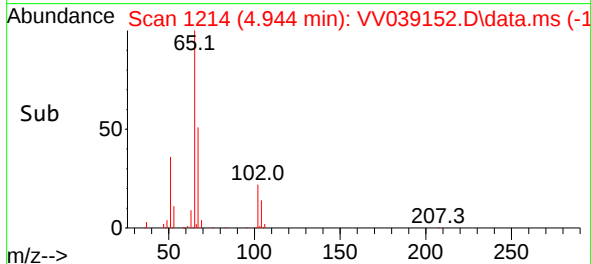
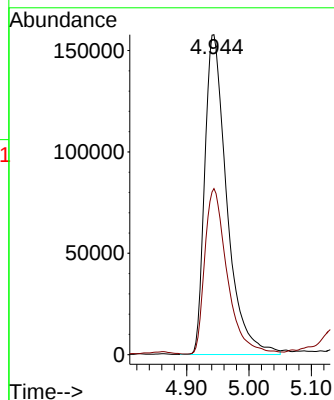
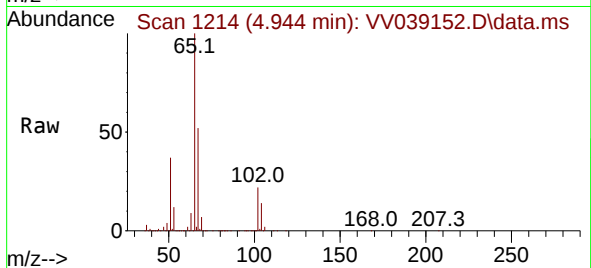
OBS1

Tgt Ion: 65 Resp: 388143

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

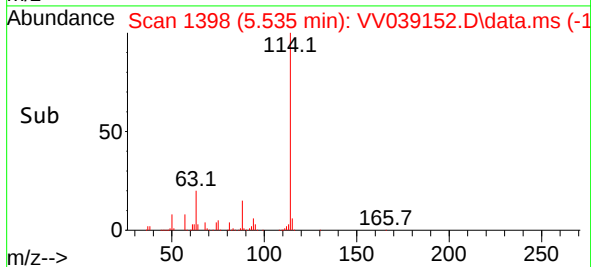
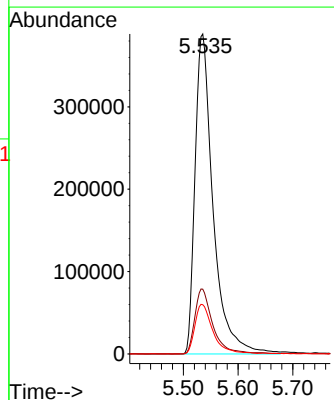
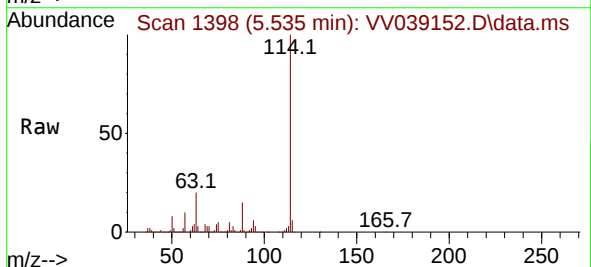
Tgt Ion: 114 Resp: 891080

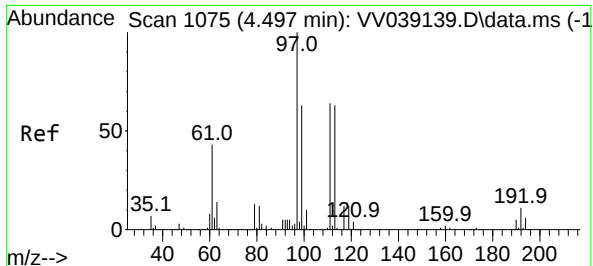
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.4 0.0 30.8

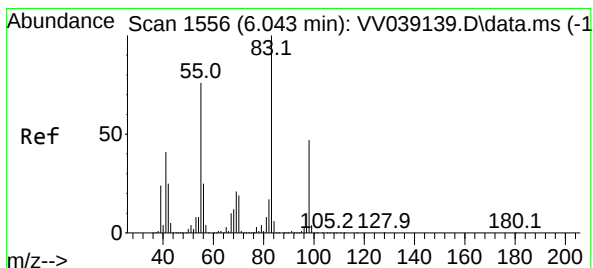
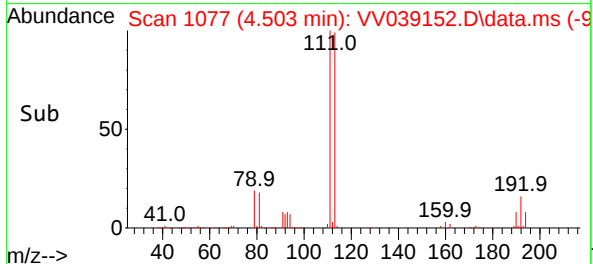
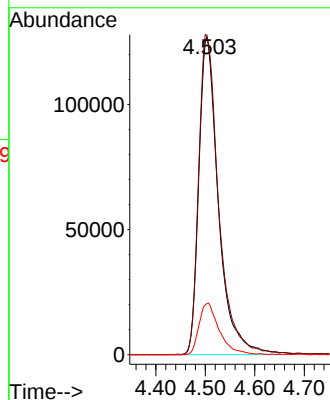
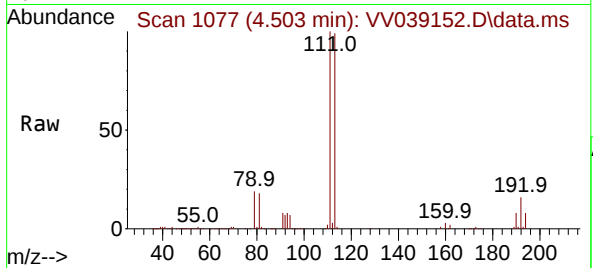




#35
Dibromofluoromethane
Concen: 48.839 ug/l
RT: 4.503 min Scan# 1113
Delta R.T. 0.006 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

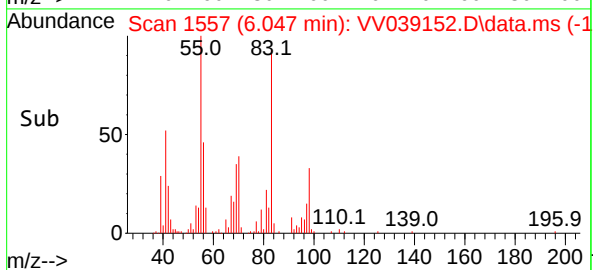
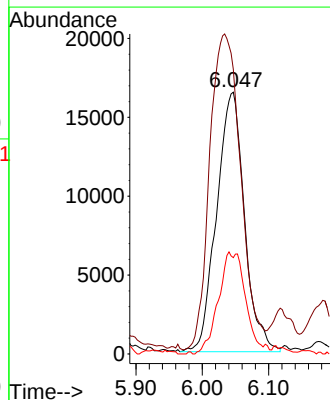
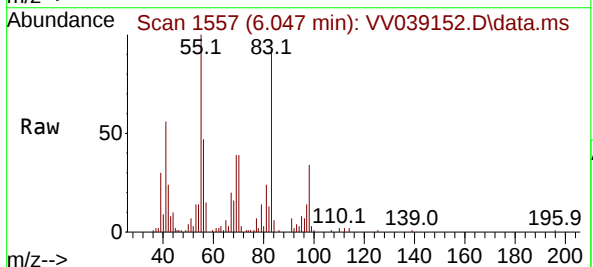
Instrument :
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ClientSampleId :
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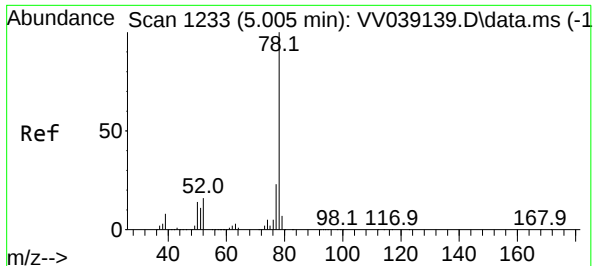
Tgt Ion:113 Resp: 349859
Ion Ratio Lower Upper
113 100
111 102.0 82.4 123.6
192 16.7 13.8 20.8



#39
Methylcyclohexane
Concen: 3.672 ug/l
RT: 6.047 min Scan# 1557
Delta R.T. 0.004 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

Tgt Ion: 83 Resp: 48032
Ion Ratio Lower Upper
83 100
55 107.5 60.5 90.7#
98 37.1 37.8 56.6#

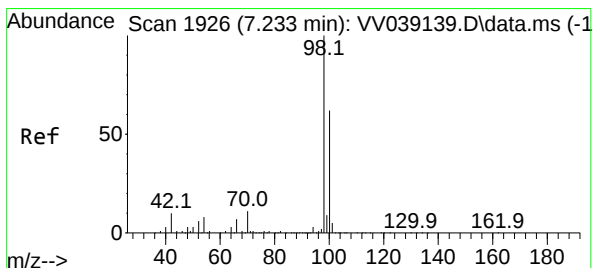
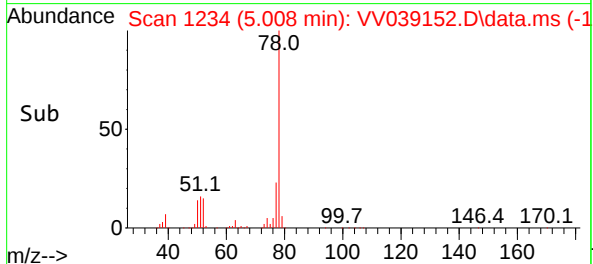
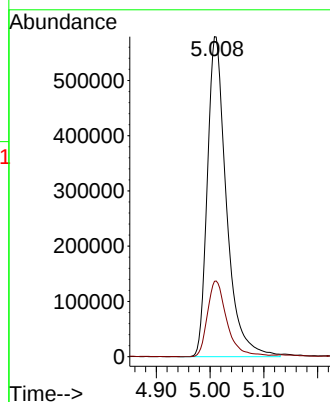
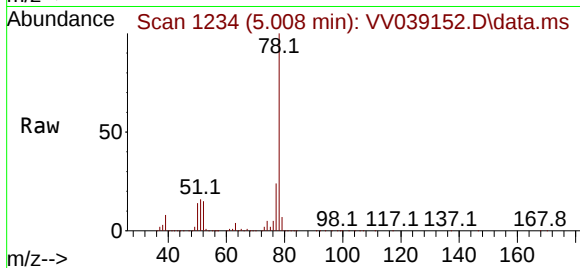




#40
Benzene
Concen: 40.452 ug/l
RT: 5.008 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

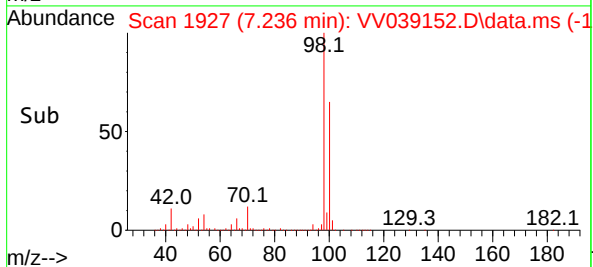
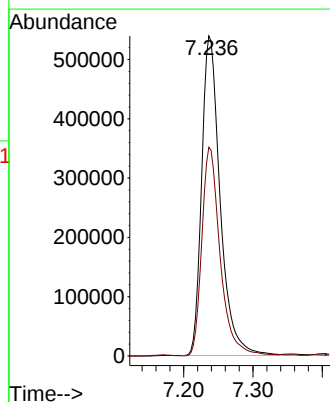
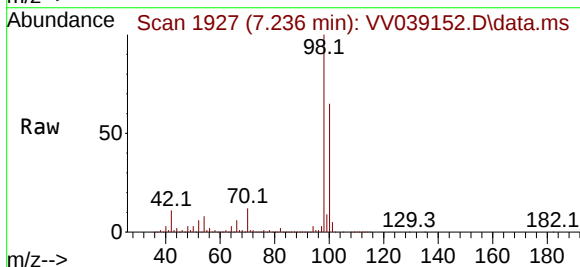
Instrument :
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ClientSampleId :
OBS1

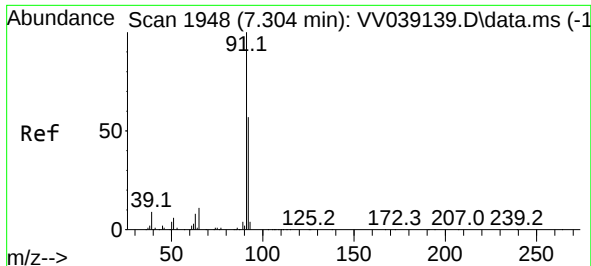
Tgt Ion: 78 Resp: 1426675
Ion Ratio Lower Upper
78 100
77 23.5 18.7 28.1



#50
Toluene-d8
Concen: 47.527 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

Tgt Ion: 98 Resp: 999940
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2

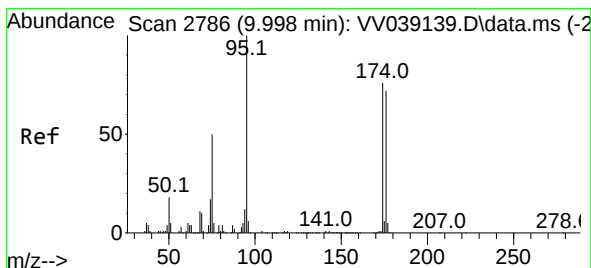
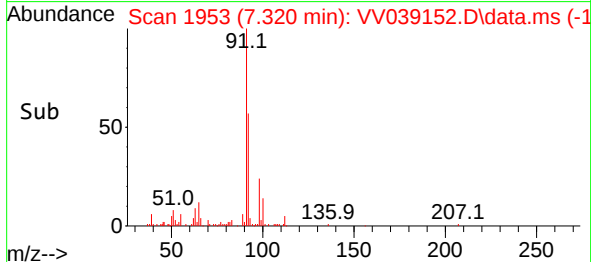
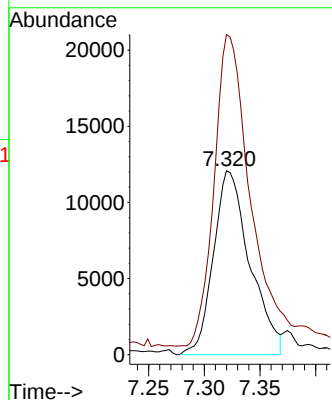
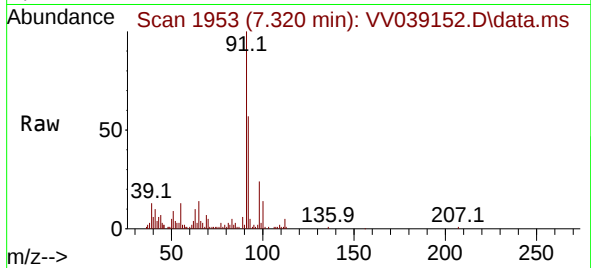




#52
Toluene
Concen: 1.347 ug/l
RT: 7.320 min Scan# 1948
Delta R.T. 0.016 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

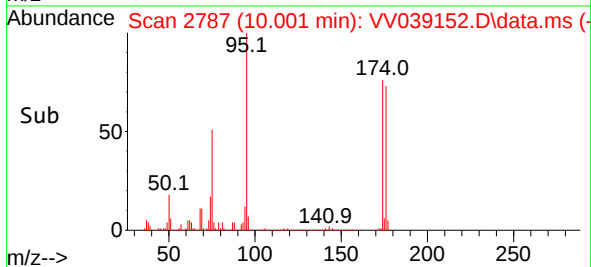
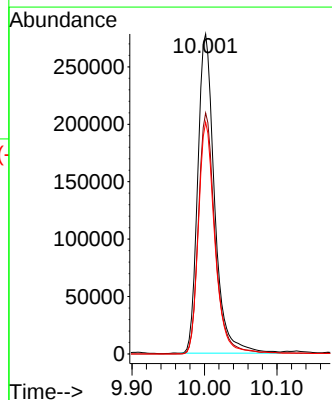
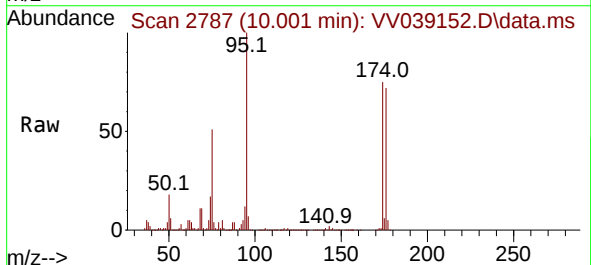
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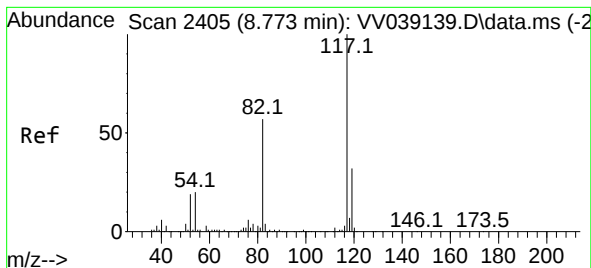
Tgt Ion: 92 Resp: 27552
Ion Ratio Lower Upper
92 100
91 167.6 139.2 208.8



#62
4-Bromofluorobenzene
Concen: 51.638 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

Tgt Ion: 95 Resp: 447257
Ion Ratio Lower Upper
95 100
174 74.6 0.0 150.4
176 71.7 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

Instrument :

MSVOA_V

ClientSampleId :

OBS1

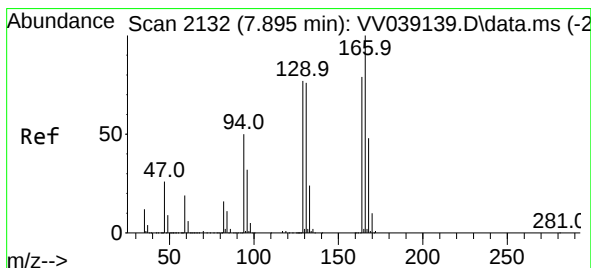
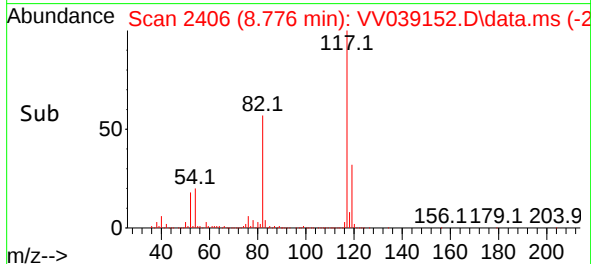
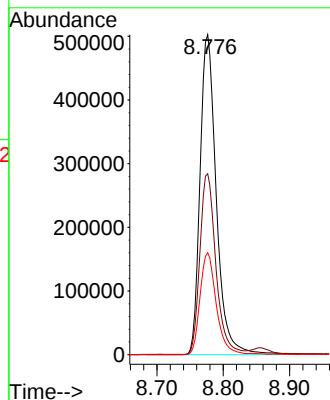
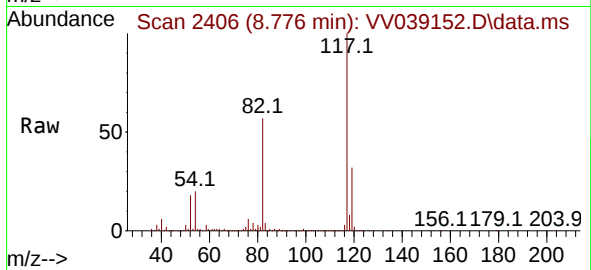
Tgt Ion:117 Resp: 856052

Ion Ratio Lower Upper

117 100

82 56.5 45.4 68.2

119 31.9 25.6 38.4



#64

Tetrachloroethene

Concen: 0.274 ug/l

RT: 7.908 min Scan# 2136

Delta R.T. 0.013 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

Tgt Ion:164 Resp: 1965

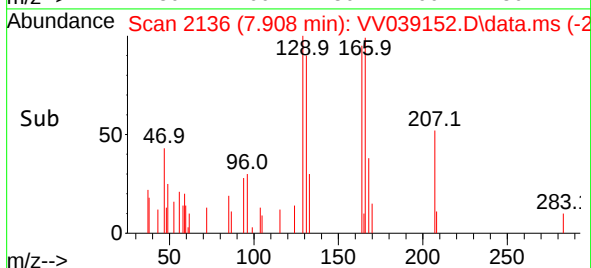
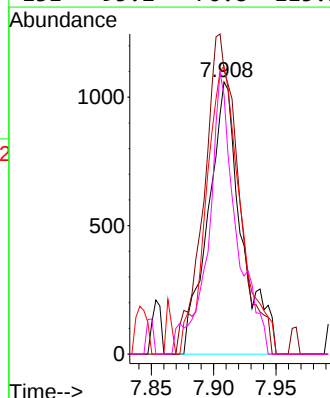
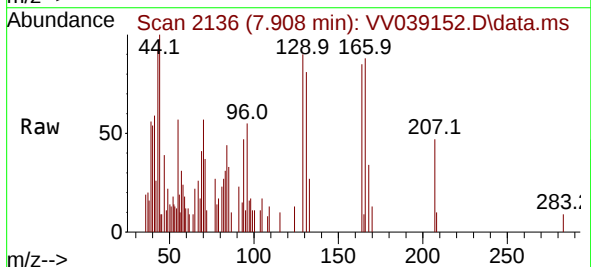
Ion Ratio Lower Upper

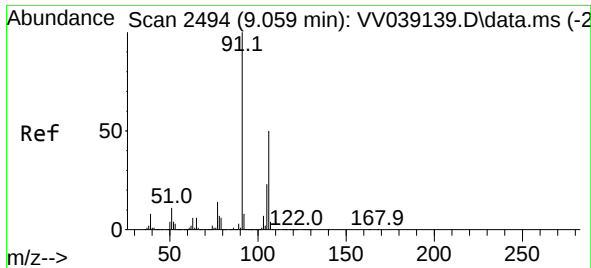
164 100

166 104.3 101.6 152.4

129 105.8 78.5 117.7

131 95.2 76.8 115.2

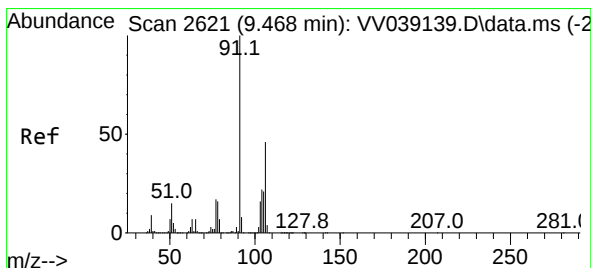
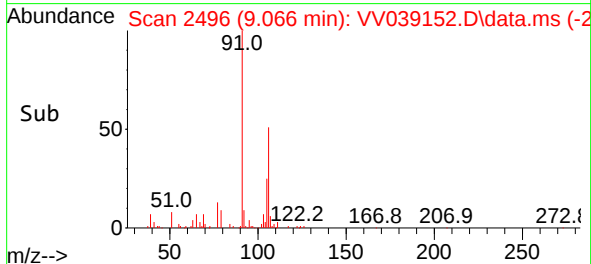
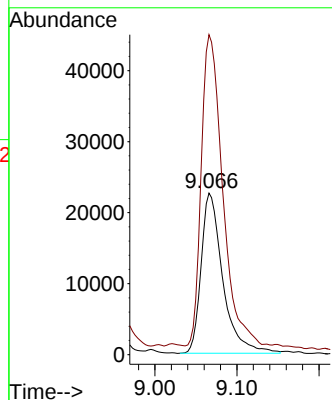
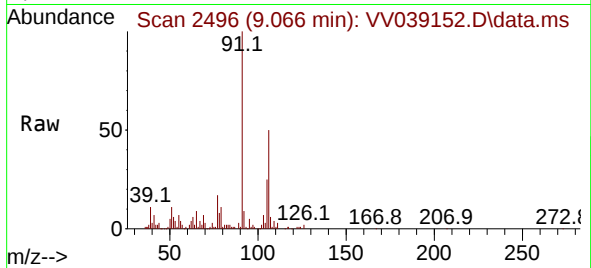




#68
m/p-Xylenes
Concen: 2.972 ug/l
RT: 9.066 min Scan# 2494
Delta R.T. 0.007 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

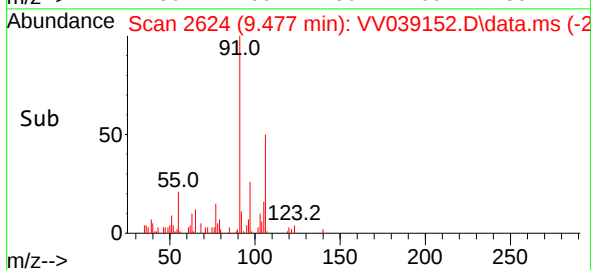
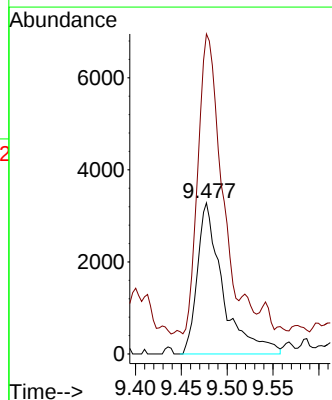
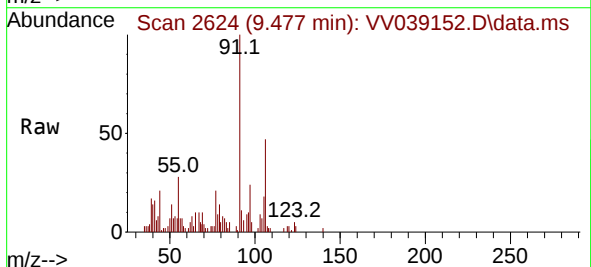
Instrument :
MSVOA_V
ClientSampleId :
OBS1

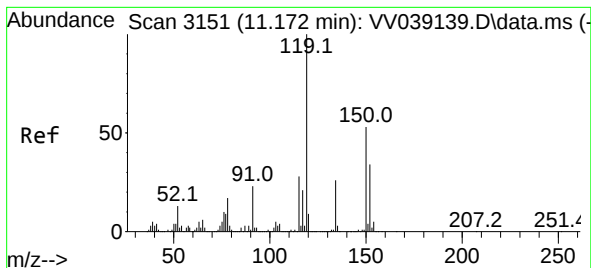
Tgt Ion:106 Resp: 41405
Ion Ratio Lower Upper
106 100
91 191.5 162.5 243.7



#69
o-Xylene
Concen: 0.516 ug/l
RT: 9.477 min Scan# 2624
Delta R.T. 0.010 min
Lab File: VV039152.D
Acq: 24 Sep 2025 15:08

Tgt Ion:106 Resp: 6368
Ion Ratio Lower Upper
106 100
91 178.3 109.1 327.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

Instrument :

MSVOA_V

ClientSampleId :

OBS1

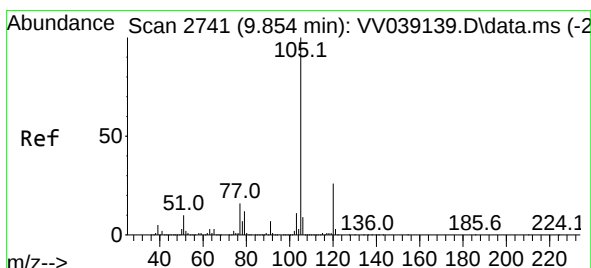
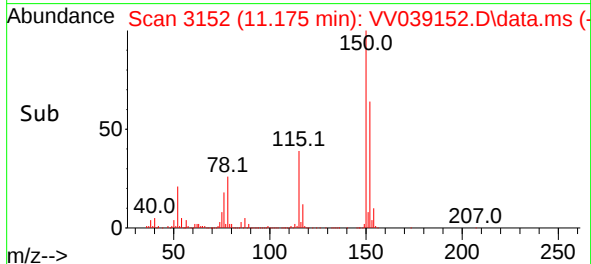
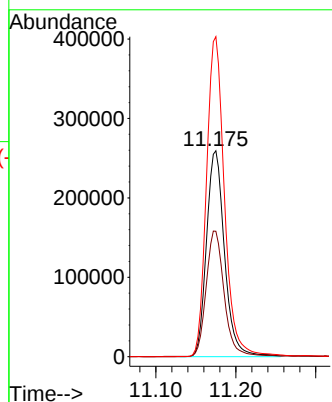
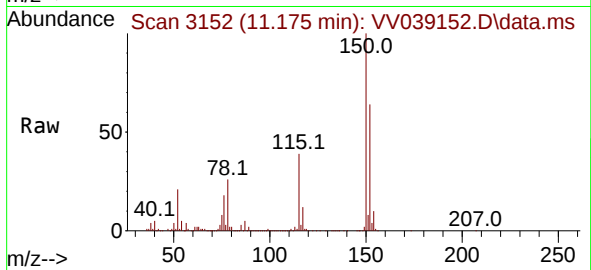
Tgt Ion:152 Resp: 408468

Ion Ratio Lower Upper

152 100

115 60.5 44.8 134.4

150 154.3 0.0 353.8



#73

Isopropylbenzene

Concen: 8.070 ug/l

RT: 9.857 min Scan# 2742

Delta R.T. 0.003 min

Lab File: VV039152.D

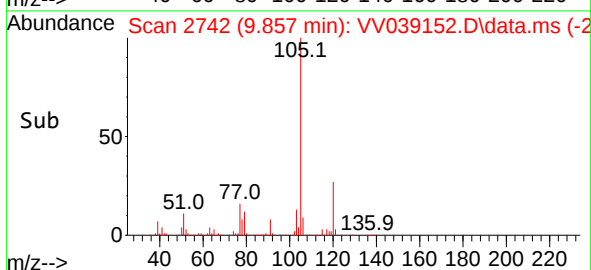
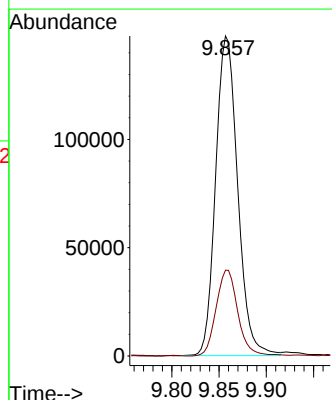
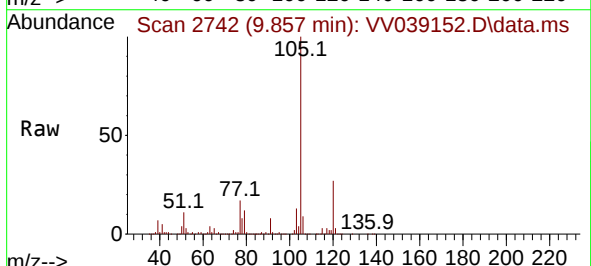
Acq: 24 Sep 2025 15:08

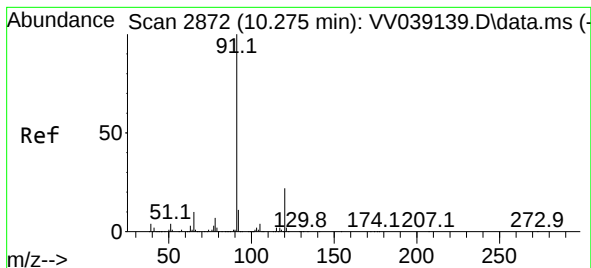
Tgt Ion:105 Resp: 239091

Ion Ratio Lower Upper

105 100

120 26.6 13.1 39.1





#78

n-propylbenzene

Concen: 7.950 ug/l

RT: 10.281 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

Instrument :

MSVOA_V

ClientSampleId :

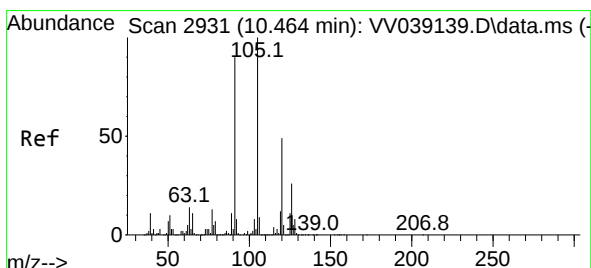
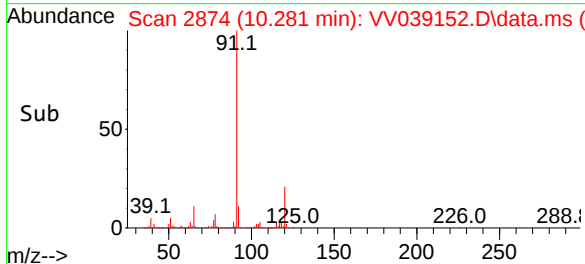
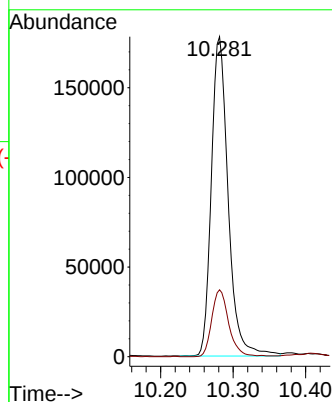
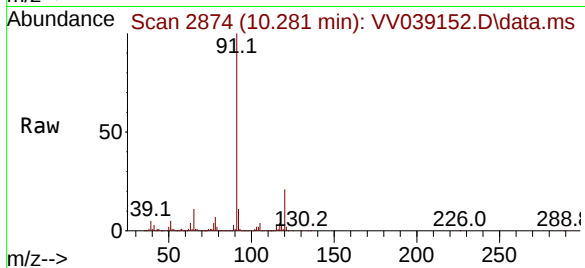
OBS1

Tgt Ion: 91 Resp: 286813

Ion Ratio Lower Upper

91 100

120 21.1 11.1 33.3



#80

1,3,5-Trimethylbenzene

Concen: 0.428 ug/l

RT: 10.474 min Scan# 2934

Delta R.T. 0.010 min

Lab File: VV039152.D

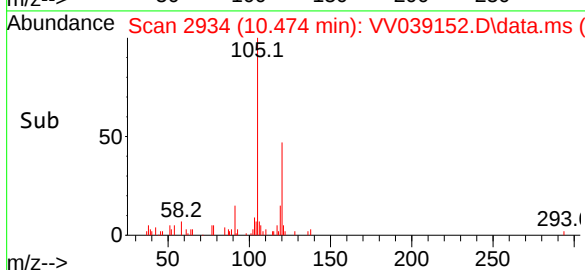
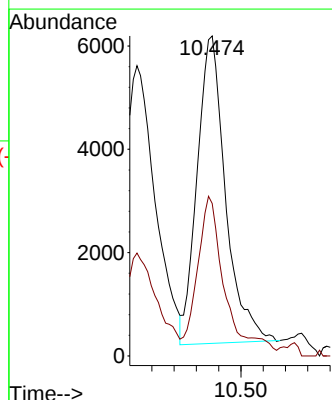
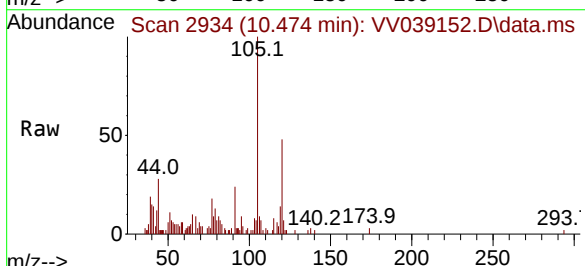
Acq: 24 Sep 2025 15:08

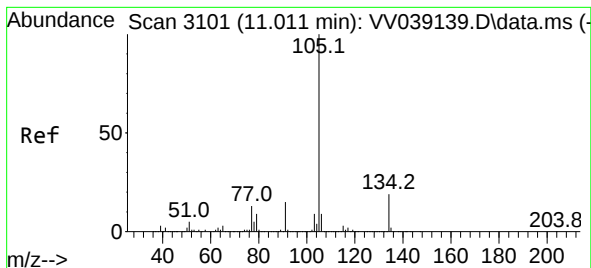
Tgt Ion:105 Resp: 10536

Ion Ratio Lower Upper

105 100

120 45.7 24.3 72.8





#85

sec-Butylbenzene

Concen: 1.626 ug/l

RT: 11.014 min Scan# 3101

Delta R.T. 0.003 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

Instrument :

MSVOA_V

ClientSampleId :

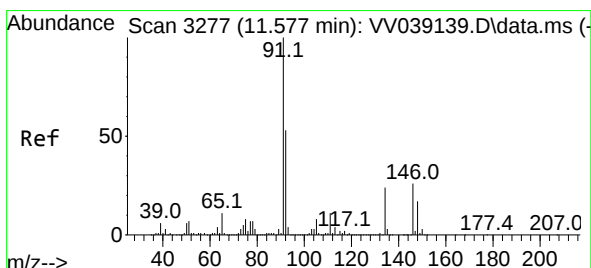
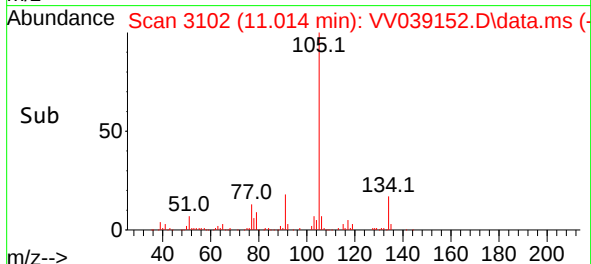
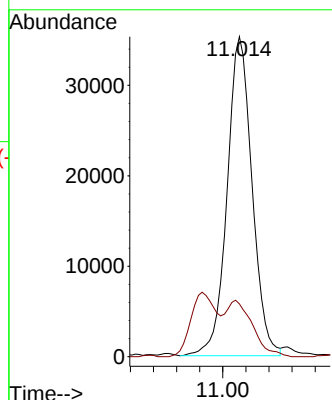
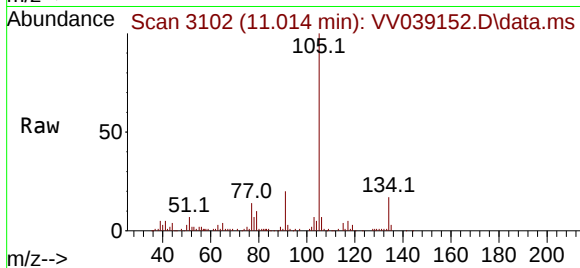
OBS1

Tgt Ion:105 Resp: 52963

Ion Ratio Lower Upper

105 100

134 17.4 9.6 28.8



#89

n-Butylbenzene

Concen: 0.606 ug/l

RT: 11.580 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VV039152.D

Acq: 24 Sep 2025 15:08

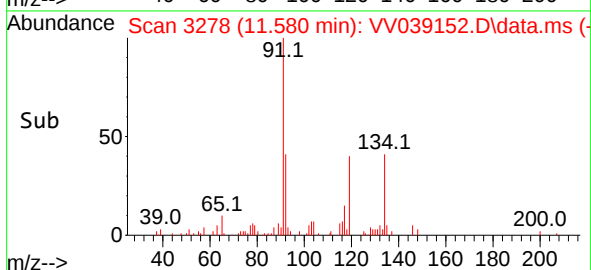
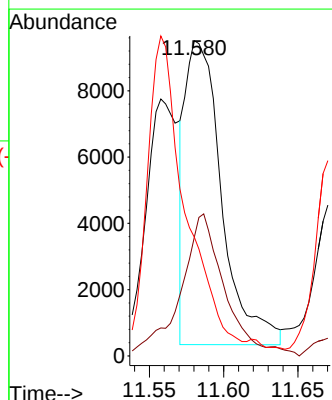
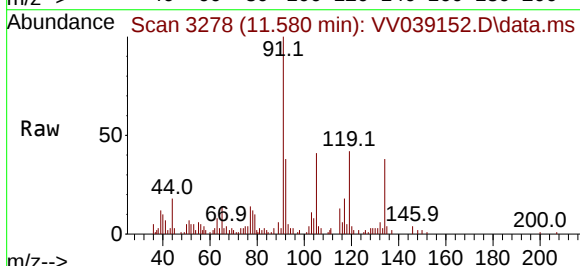
Tgt Ion: 91 Resp: 15680

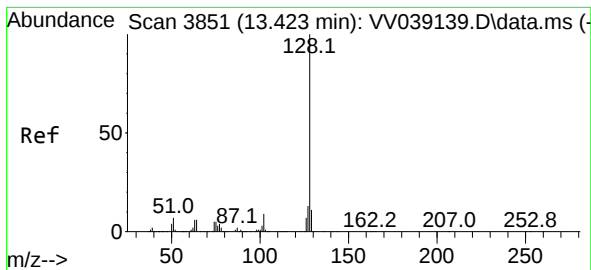
Ion Ratio Lower Upper

91 100

92 56.6 26.6 79.8

134 0.0 12.1 36.3#





#95

Naphthalene

Concen: 2.602 ug/l

RT: 13.432 min Scan# 3854

Delta R.T. 0.009 min

Lab File: VV039152.D

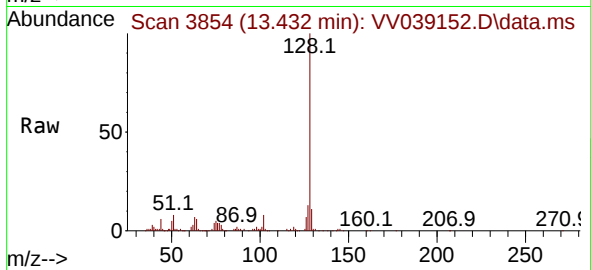
Acq: 24 Sep 2025 15:08

Instrument :

MSVOA_V

ClientSampleId :

OBS1



Tgt Ion:	128	Resp:	70065
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.3	15.5
129	12.5	8.6	13.0

