

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039158.D
 Acq On : 24 Sep 2025 17:22
 Operator : SY/MD
 Sample : Q3172-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 FW6D

Quant Time: Sep 25 08:19:58 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)

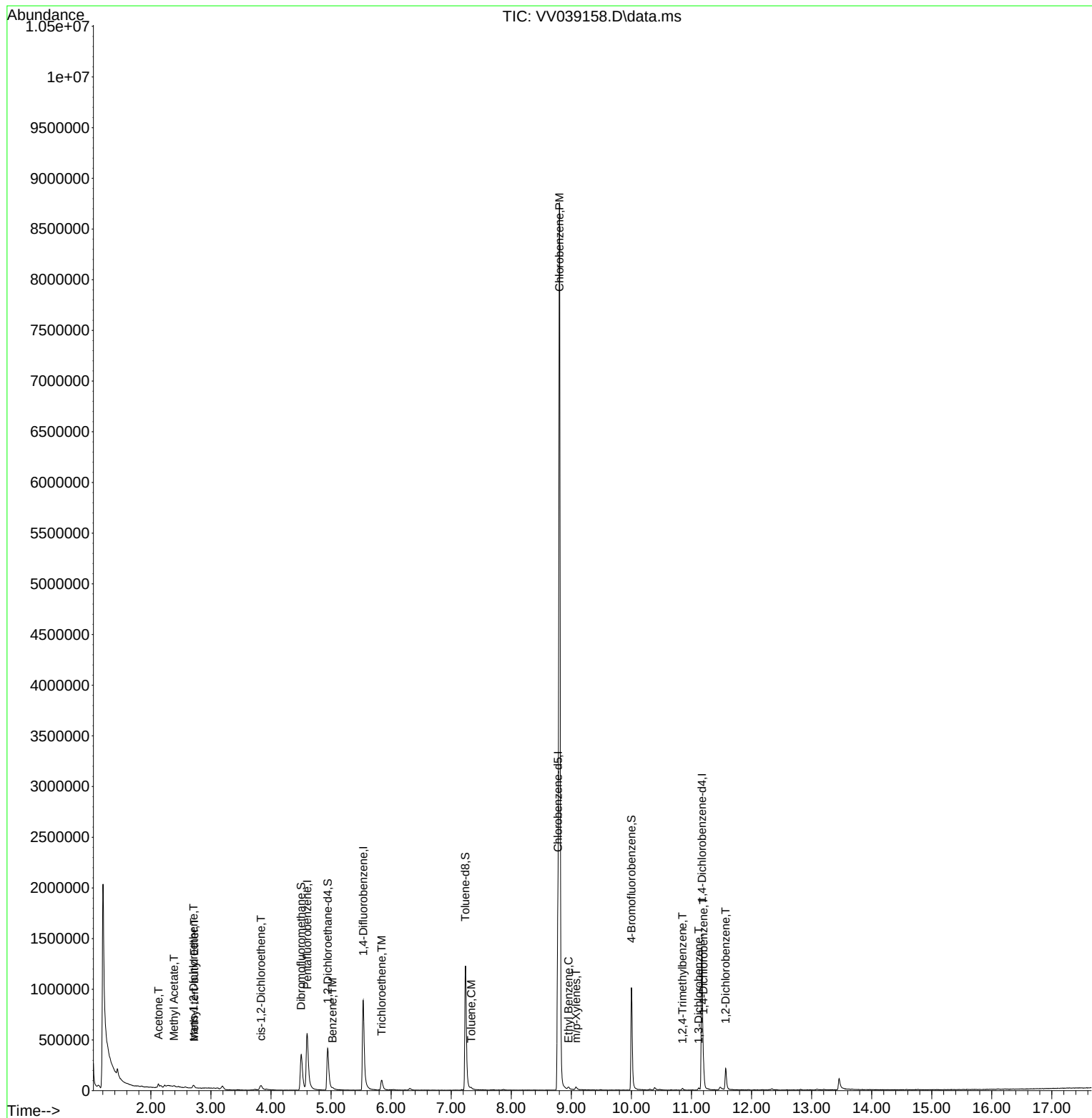
Internal Standards						
1) Pentafluorobenzene	4.603	168	463506	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	853323	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	809313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	359745	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	368800	54.977	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 109.960%	
35) Dibromofluoromethane	4.503	113	296563	43.231	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 86.460%	
50) Toluene-d8	7.236	98	901302	44.734	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 89.460%	
62) 4-Bromofluorobenzene	10.001	95	349650	42.155	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 84.320%#	
Target Compounds						
					Qvalue	
16) Acetone	2.127	43	44393	5.862	ug/l	97
18) Methyl Acetate	2.384	43	11727	1.180	ug/l #	89
19) Methyl tert-butyl Ether	2.722	73	9069	0.407	ug/l	95
21) trans-1,2-Dichloroethene	2.709	96	9864	1.326	ug/l	99
27) cis-1,2-Dichloroethene	3.835	96	21585	2.631	ug/l	91
40) Benzene	5.024	78	15483	0.458	ug/l	98
44) Trichloroethene	5.844	130	41729	5.354	ug/l	93
52) Toluene	7.333	92	9747	0.498	ug/l	97
65) Chlorobenzene	8.802	112	4564932	202.500	ug/l	97
67) Ethyl Benzene	8.953	91	16758	0.491	ug/l	96
68) m/p-Xylenes	9.082	106	10142	0.770	ug/l	89
84) 1,2,4-Trimethylbenzene	10.850	105	10972	0.521	ug/l	94
87) 1,3-Dichlorobenzene	11.120	146	7410	0.541	ug/l	95
88) 1,4-Dichlorobenzene	11.201	146	91622	6.096	ug/l	98
91) 1,2-Dichlorobenzene	11.571	146	84138	6.573	ug/l	98

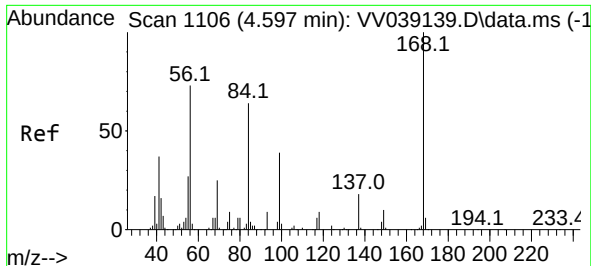
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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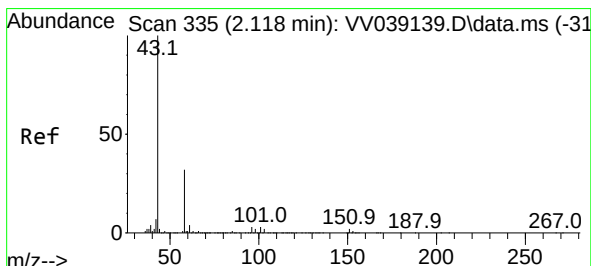
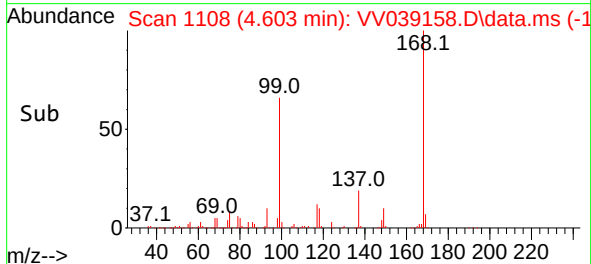
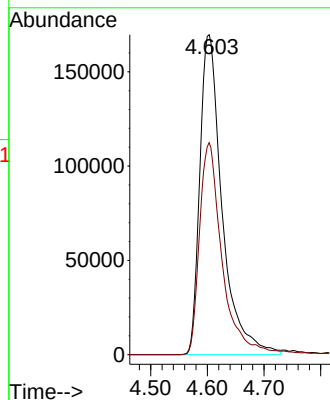
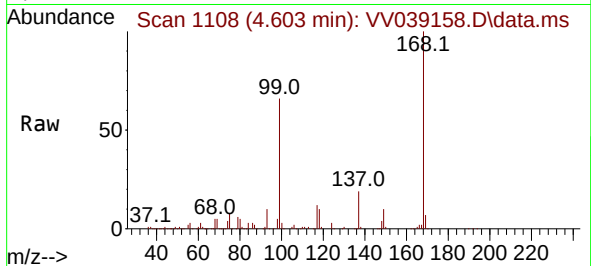




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

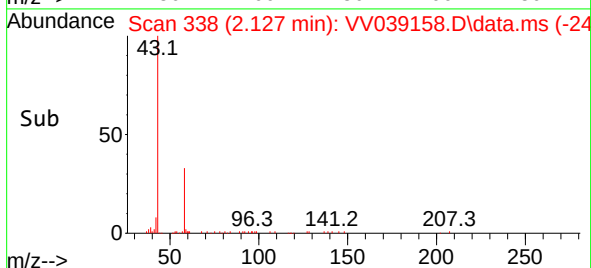
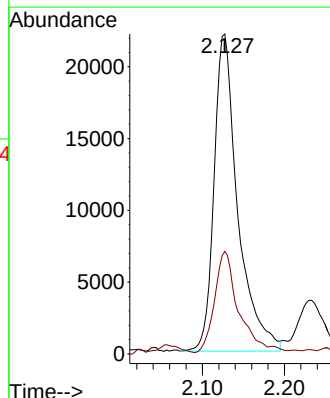
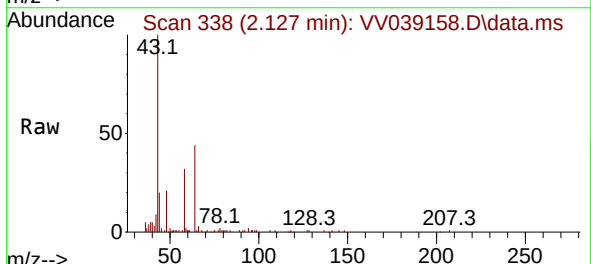
Instrument :
MSVOA_V
ClientSampleId :
FW6D

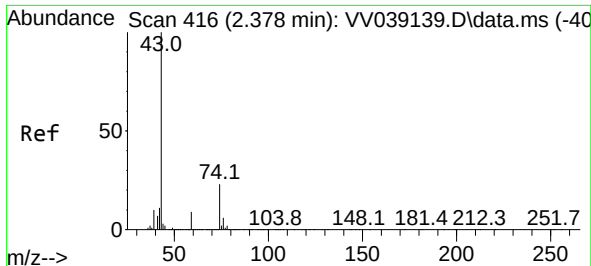
Tgt Ion:168 Resp: 463506
Ion Ratio Lower Upper
168 100
99 66.3 49.6 74.4



#16
Acetone
Concen: 5.862 ug/l
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

Tgt Ion: 43 Resp: 44393
Ion Ratio Lower Upper
43 100
58 30.7 25.8 38.6

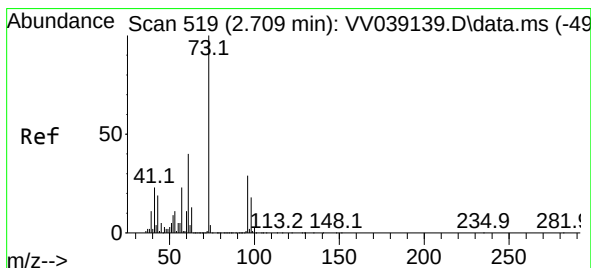
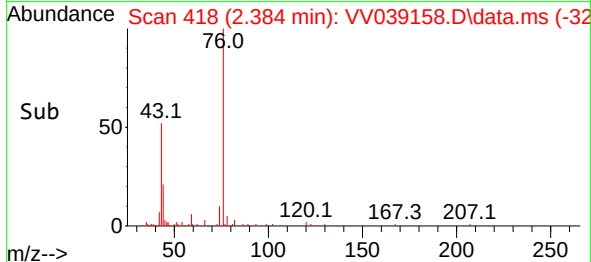
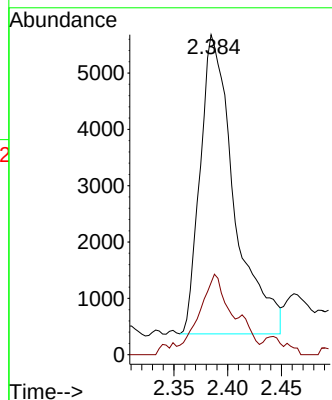
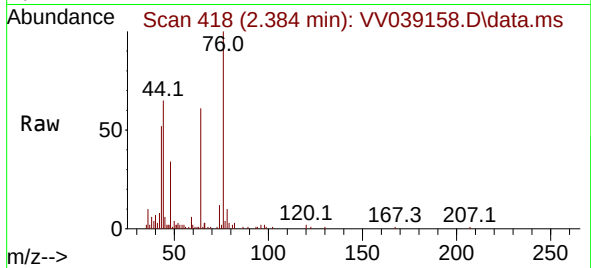




#18
Methyl Acetate
Concen: 1.180 ug/l
RT: 2.384 min Scan# 416
Delta R.T. 0.006 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

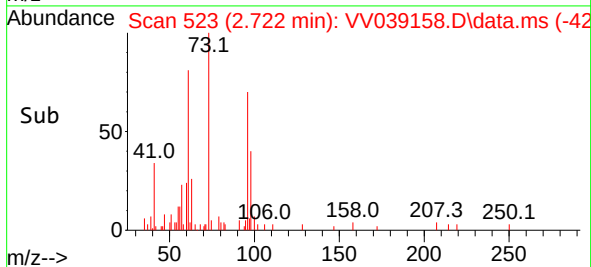
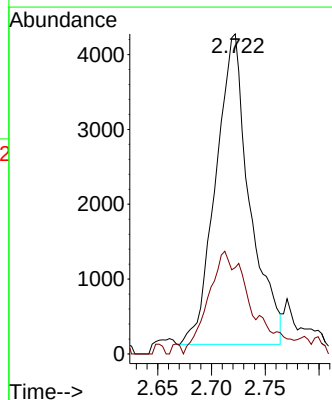
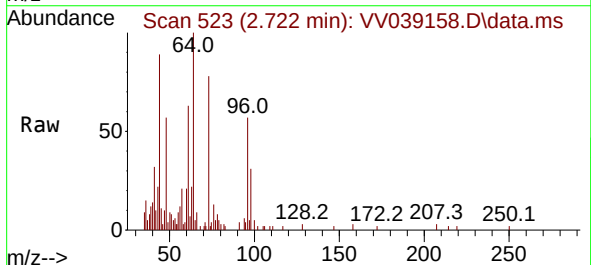
Instrument :
MSVOA_V
ClientSampleId :
FW6D

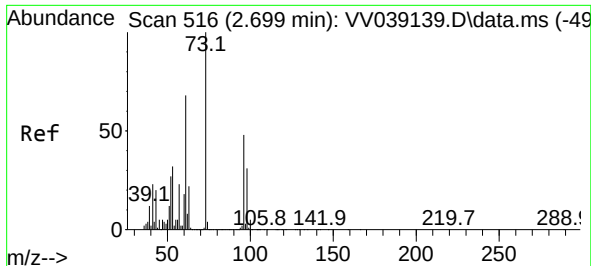
Tgt Ion: 43 Resp: 11727
Ion Ratio Lower Upper
43 100
74 18.0 18.6 27.8#



#19
Methyl tert-butyl Ether
Concen: 0.407 ug/l
RT: 2.722 min Scan# 523
Delta R.T. 0.013 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

Tgt Ion: 73 Resp: 9069
Ion Ratio Lower Upper
73 100
57 25.2 18.2 27.4

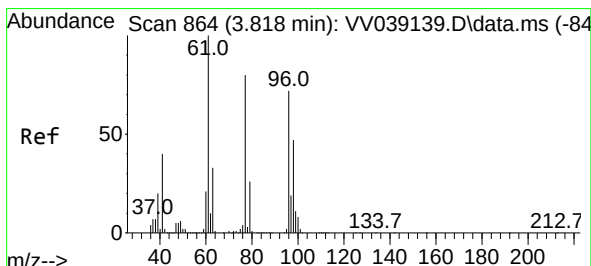
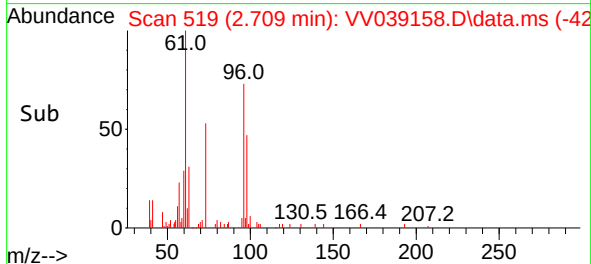
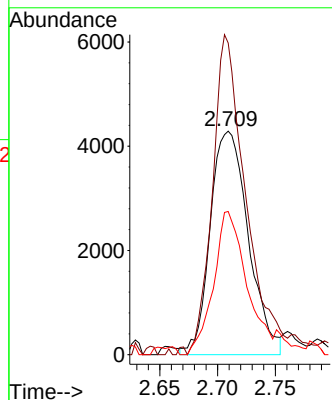
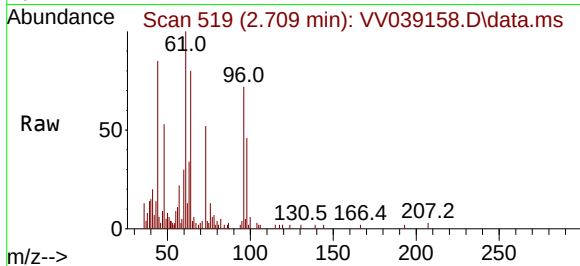




#21
trans-1,2-Dichloroethene
Concen: 1.326 ug/l
RT: 2.709 min Scan# 516
Delta R.T. 0.010 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

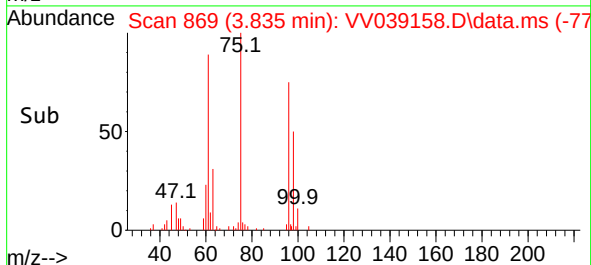
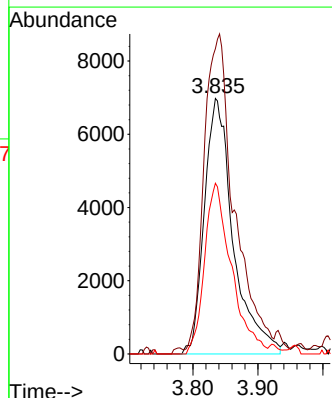
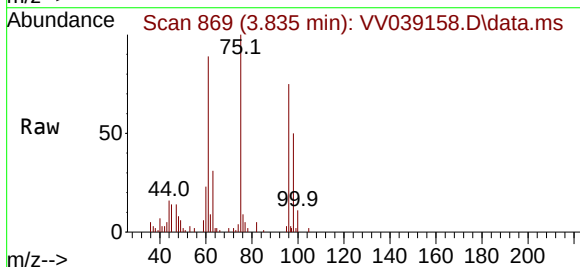
Instrument :
MSVOA_V
ClientSampleId :
FW6D

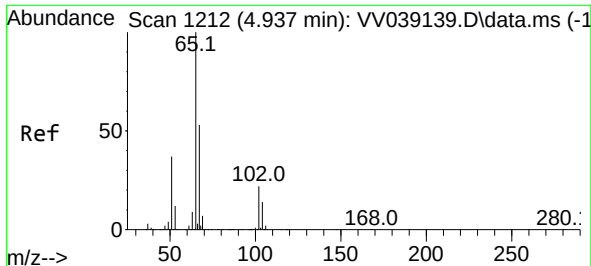
Tgt Ion: 96 Resp: 9864
Ion Ratio Lower Upper
96 100
61 140.1 112.8 169.2
98 65.9 51.1 76.7



#27
cis-1,2-Dichloroethene
Concen: 2.631 ug/l
RT: 3.835 min Scan# 869
Delta R.T. 0.016 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

Tgt Ion: 96 Resp: 21585
Ion Ratio Lower Upper
96 100
61 127.5 0.0 286.4
98 62.1 0.0 126.6





#33

1,2-Dichloroethane-d4

Concen: 54.977 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039158.D

Acq: 24 Sep 2025 17:22

Instrument :

MSVOA_V

ClientSampleId :

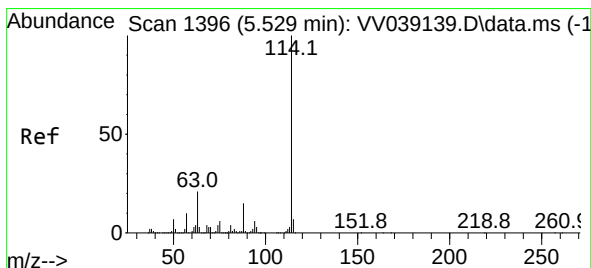
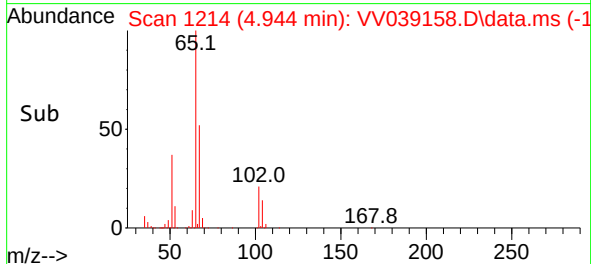
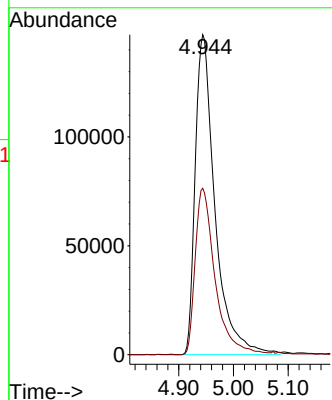
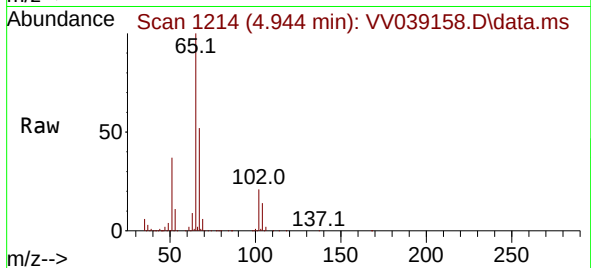
FW6D

Tgt Ion: 65 Resp: 368800

Ion Ratio Lower Upper

65 100

67 52.4 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: VV039158.D

Acq: 24 Sep 2025 17:22

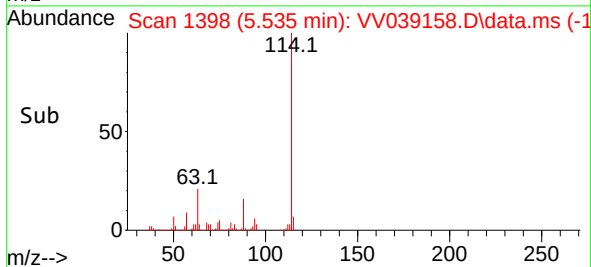
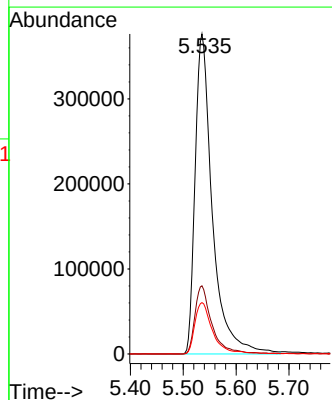
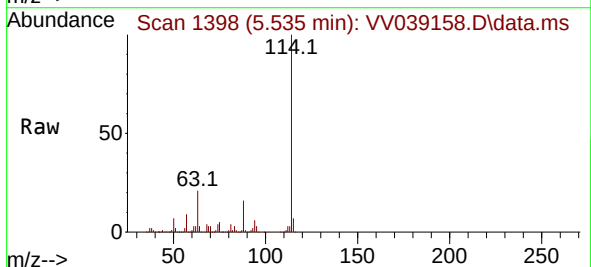
Tgt Ion: 114 Resp: 853323

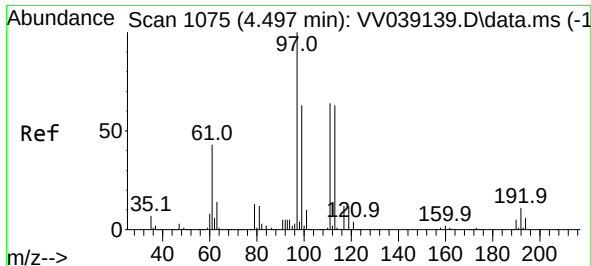
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 16.1 0.0 30.8

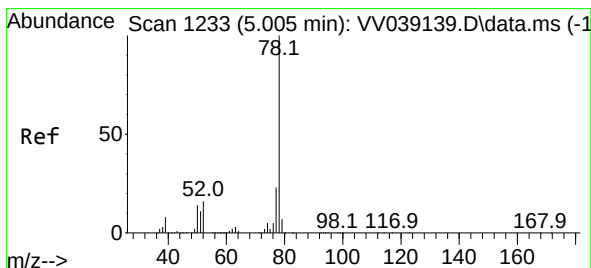
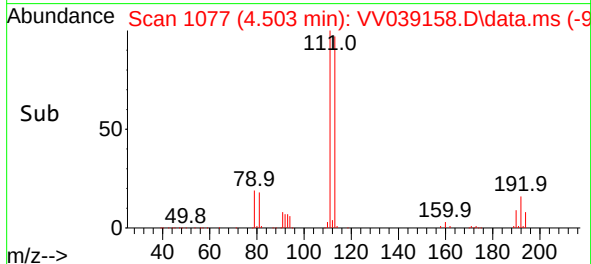
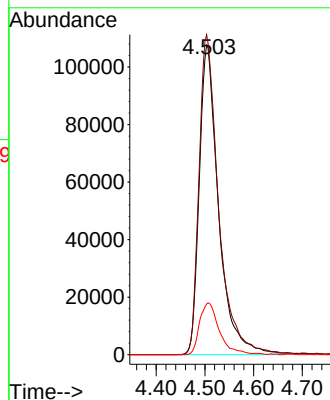
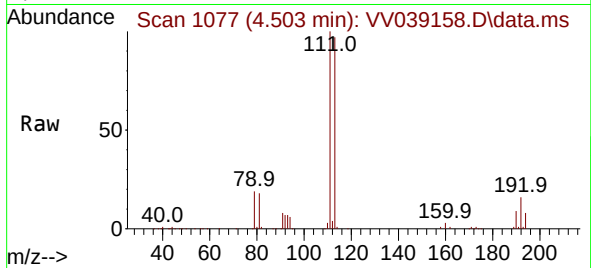




#35
Dibromofluoromethane
Concen: 43.231 ug/l
RT: 4.503 min Scan# 1075
Delta R.T. 0.006 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

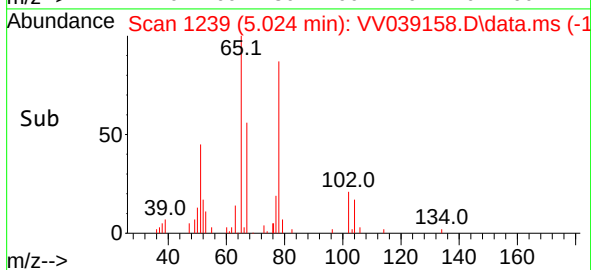
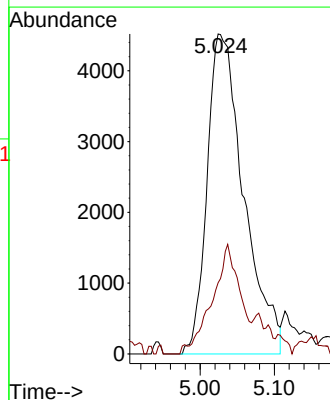
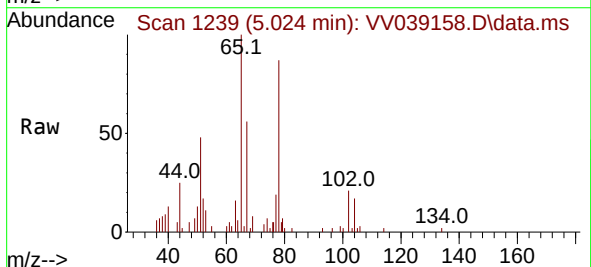
Instrument :
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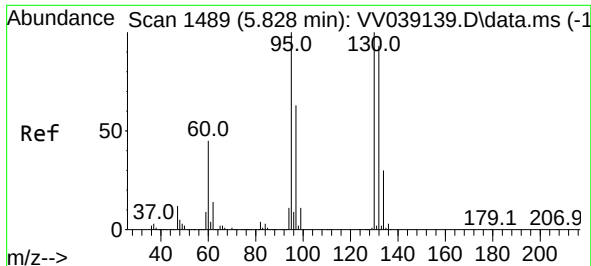
Tgt Ion:113 Resp: 296563
Ion Ratio Lower Upper
113 100
111 105.1 82.4 123.6
192 17.1 13.8 20.8



#40
Benzene
Concen: 0.458 ug/l
RT: 5.024 min Scan# 1239
Delta R.T. 0.019 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

Tgt Ion: 78 Resp: 15483
Ion Ratio Lower Upper
78 100
77 22.2 18.7 28.1

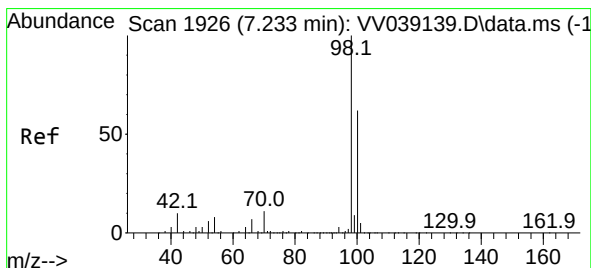
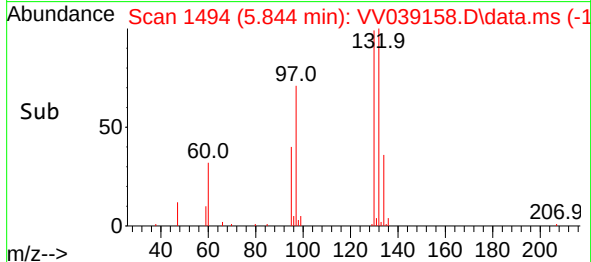
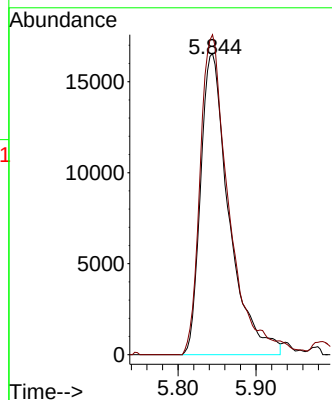
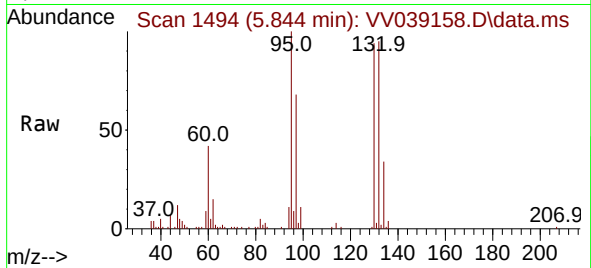




#44
Trichloroethene
Concen: 5.354 ug/l
RT: 5.844 min Scan# 1489
Delta R.T. 0.016 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

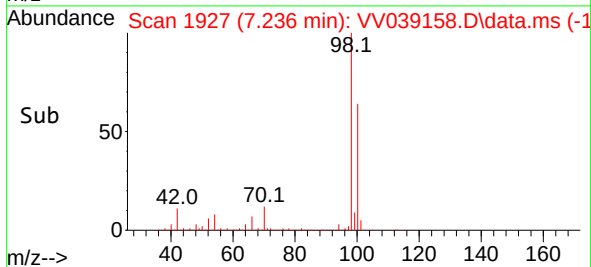
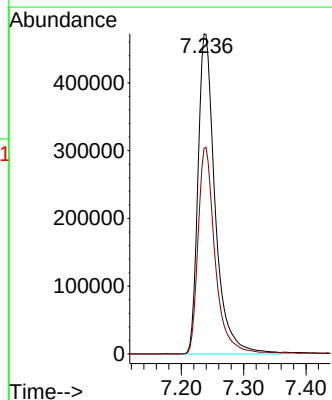
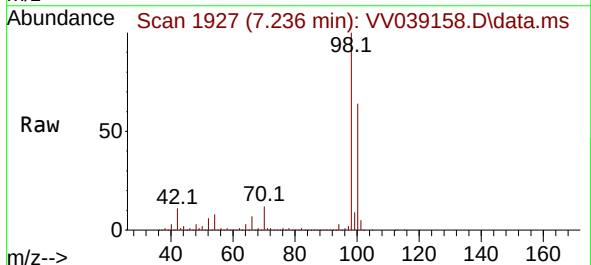
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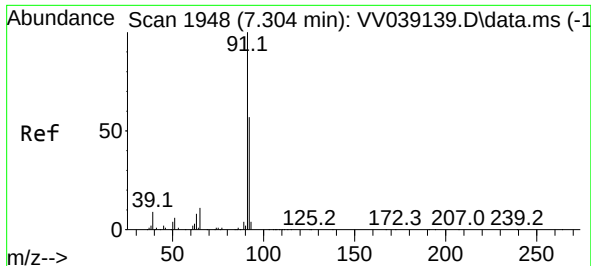
Tgt Ion:130 Resp: 41729
Ion Ratio Lower Upper
130 100
95 106.3 0.0 199.2



#50
Toluene-d8
Concen: 44.734 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

Tgt Ion: 98 Resp: 901302
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2

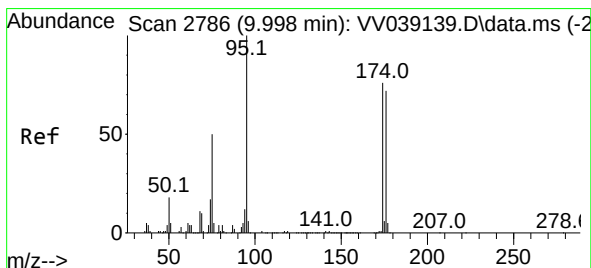
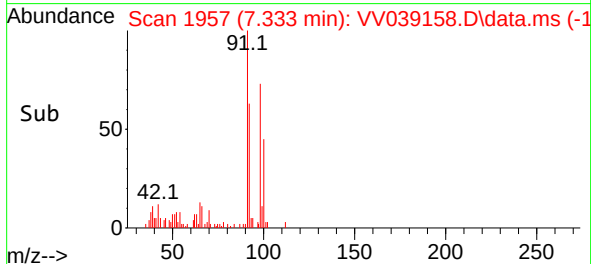
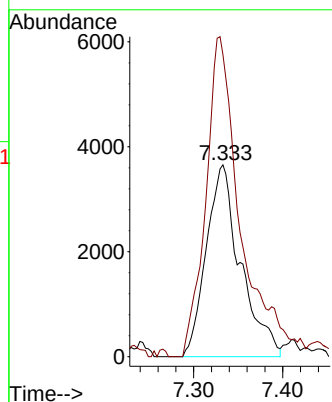
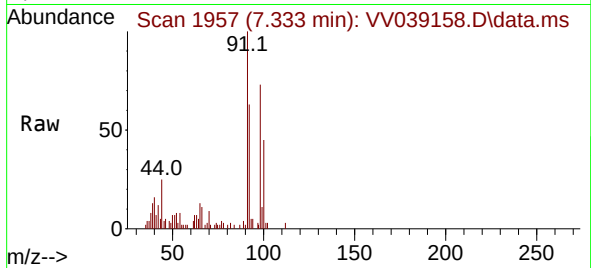




#52
Toluene
Concen: 0.498 ug/l
RT: 7.333 min Scan# 1948
Delta R.T. 0.029 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

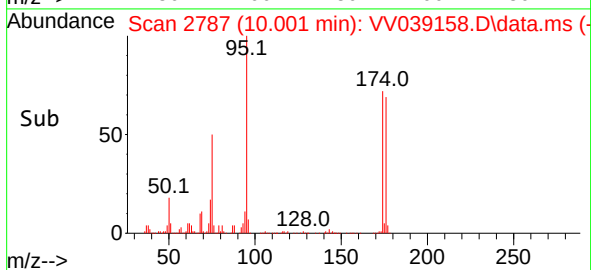
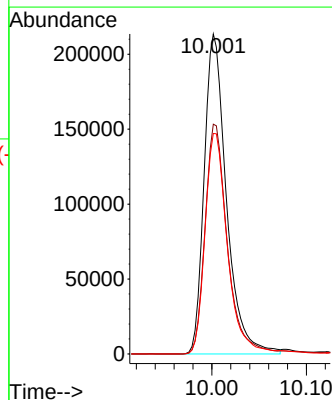
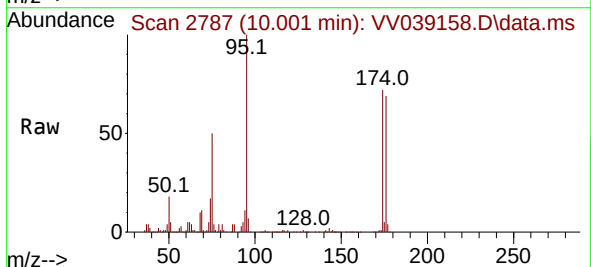
Instrument :
MSVOA_V
ClientSampleId :
FW6D

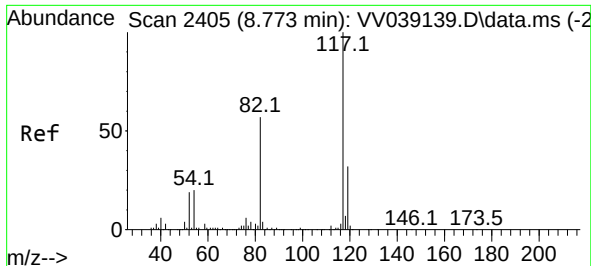
Tgt Ion: 92 Resp: 9747
Ion Ratio Lower Upper
92 100
91 169.6 139.2 208.8



#62
4-Bromofluorobenzene
Concen: 42.155 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

Tgt Ion: 95 Resp: 349650
Ion Ratio Lower Upper
95 100
174 71.6 0.0 150.4
176 70.2 0.0 144.2

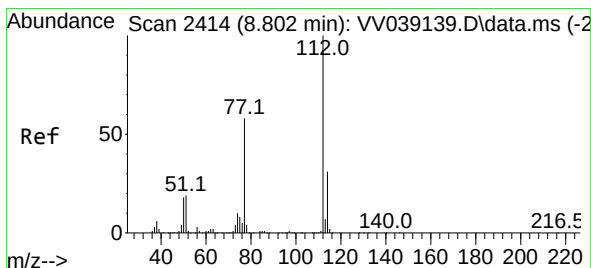
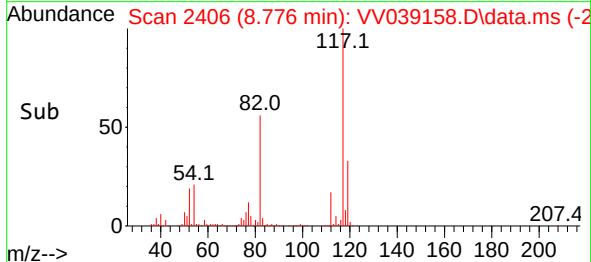
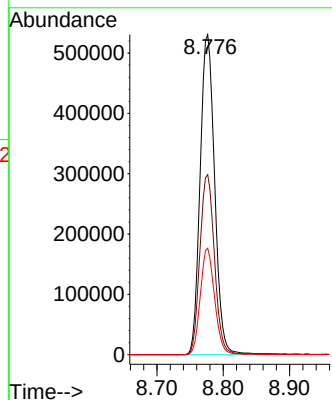
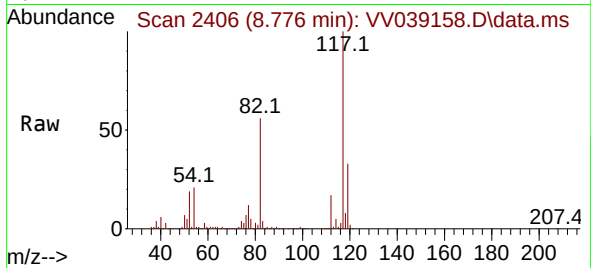




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

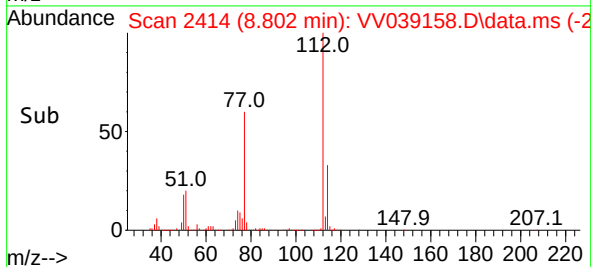
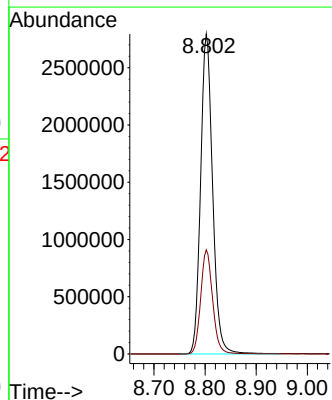
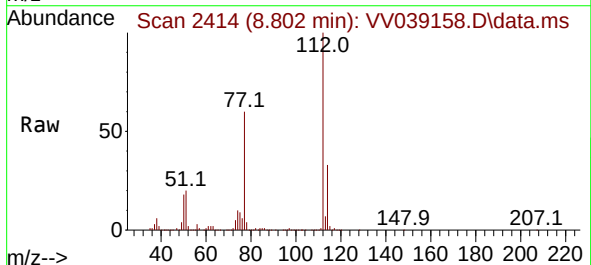
Instrument :
MSVOA_V
ClientSampleId :
FW6D

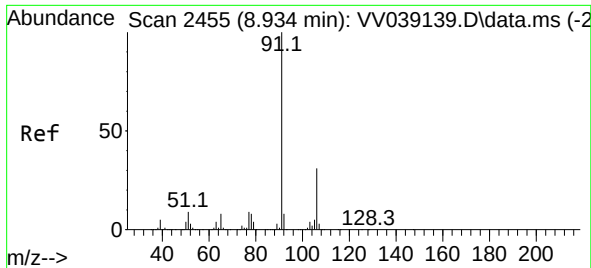
Tgt Ion:117 Resp: 809313
Ion Ratio Lower Upper
117 100
82 56.2 45.4 68.2
119 33.2 25.6 38.4



#65
Chlorobenzene
Concen: 202.500 ug/l
RT: 8.802 min Scan# 2414
Delta R.T. 0.000 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

Tgt Ion:112 Resp: 4564932
Ion Ratio Lower Upper
112 100
114 32.6 24.6 37.0





#67

Ethyl Benzene

Concen: 0.491 ug/l

RT: 8.953 min Scan# 2455

Delta R.T. 0.019 min

Lab File: VV039158.D

Acq: 24 Sep 2025 17:22

Instrument :

MSVOA_V

ClientSampleId :

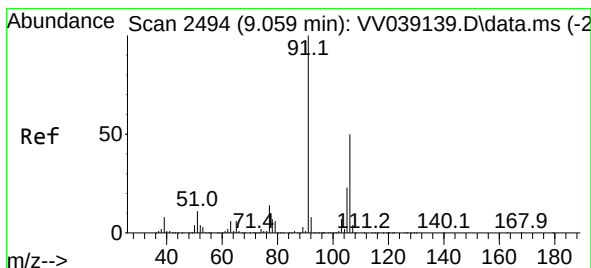
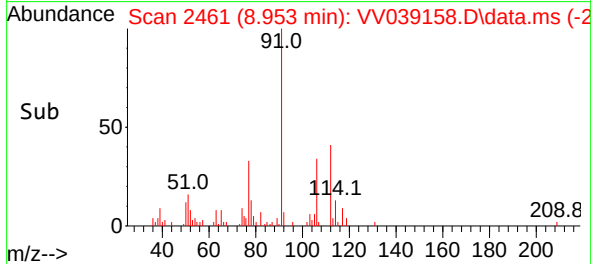
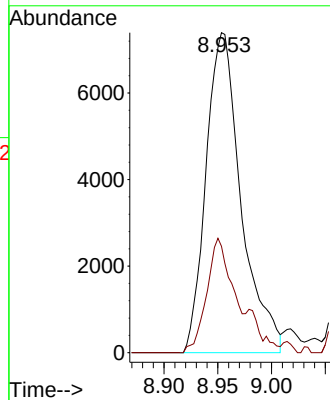
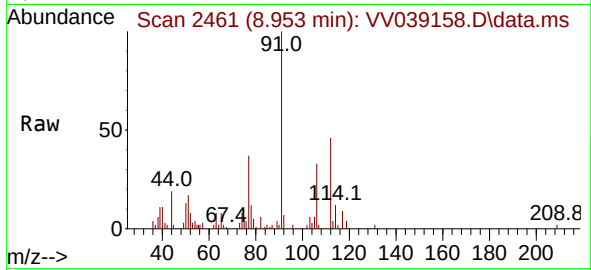
FW6D

Tgt Ion: 91 Resp: 16758

Ion Ratio Lower Upper

91 100

106 33.3 24.6 37.0



#68

m/p-Xylenes

Concen: 0.770 ug/l

RT: 9.082 min Scan# 2501

Delta R.T. 0.023 min

Lab File: VV039158.D

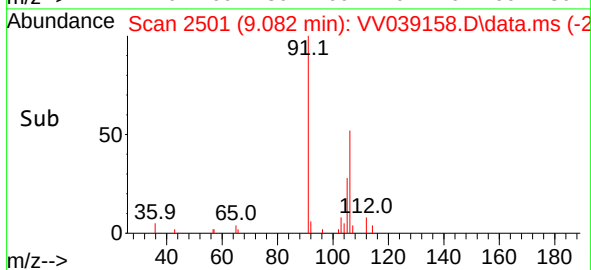
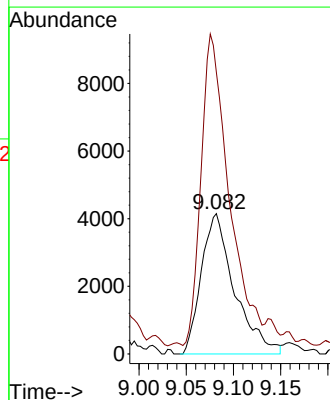
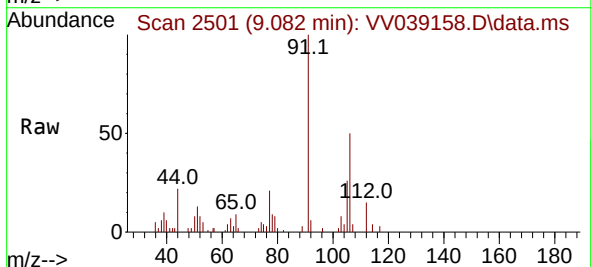
Acq: 24 Sep 2025 17:22

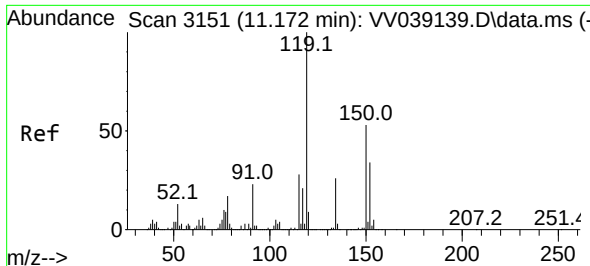
Tgt Ion: 106 Resp: 10142

Ion Ratio Lower Upper

106 100

91 186.5 162.5 243.7

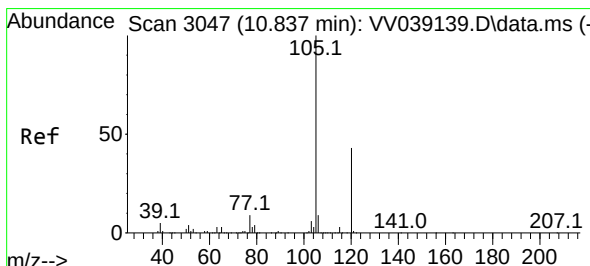
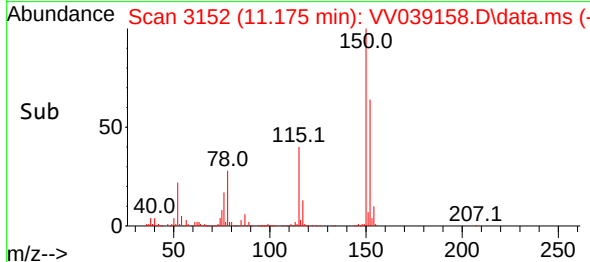
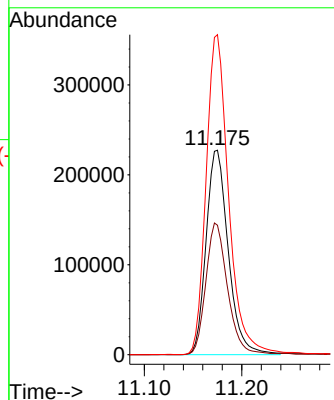
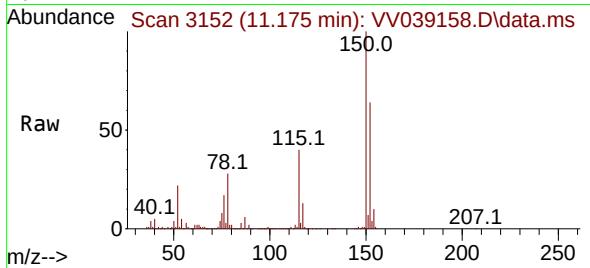




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039158.D
 Acq: 24 Sep 2025 17:22

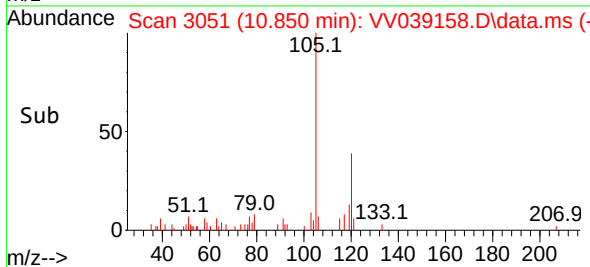
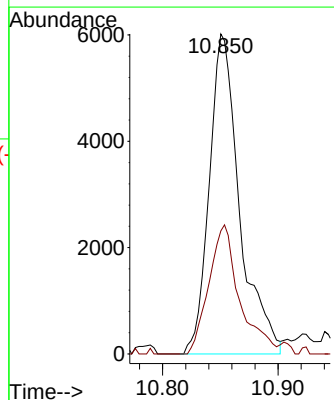
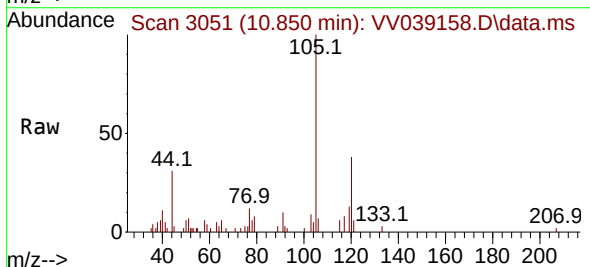
Instrument :
 MSVOA_V
 ClientSampleId :
 FW6D

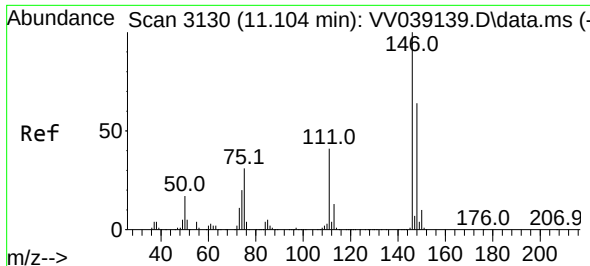
Tgt Ion:152 Resp: 359745
 Ion Ratio Lower Upper
 152 100
 115 62.9 44.8 134.4
 150 159.3 0.0 353.8



#84
 1,2,4-Trimethylbenzene
 Concen: 0.521 ug/l
 RT: 10.850 min Scan# 3051
 Delta R.T. 0.013 min
 Lab File: VV039158.D
 Acq: 24 Sep 2025 17:22

Tgt Ion:105 Resp: 10972
 Ion Ratio Lower Upper
 105 100
 120 40.9 22.4 67.2

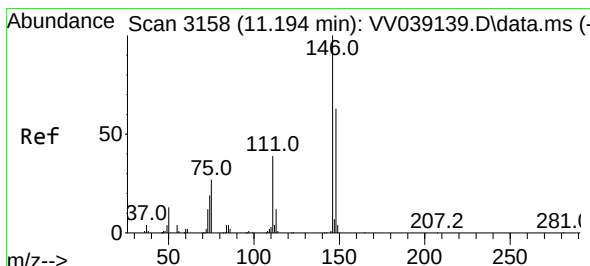
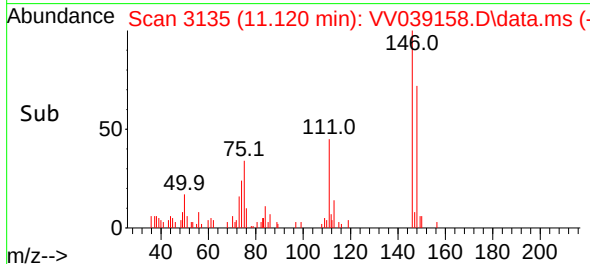
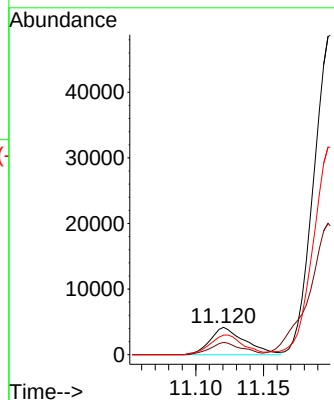
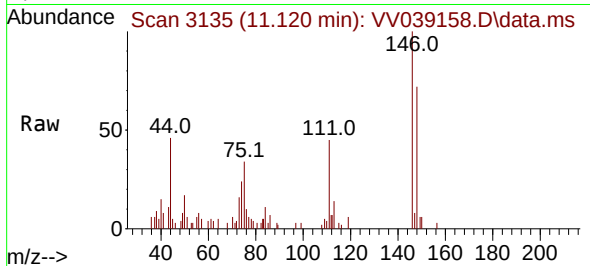




#87
1,3-Dichlorobenzene
Concen: 0.541 ug/l
RT: 11.120 min Scan# 3130
Delta R.T. 0.016 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

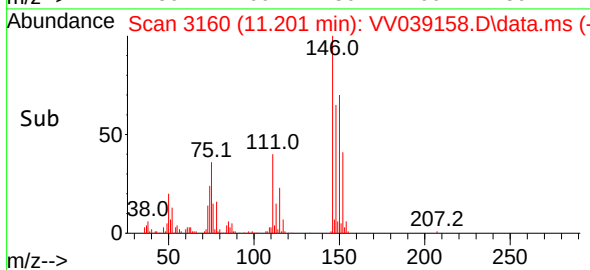
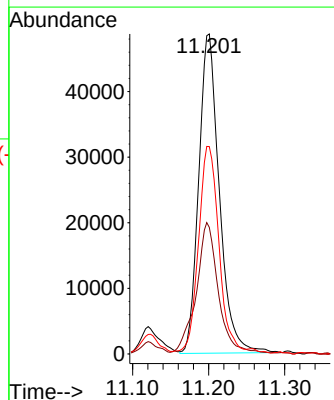
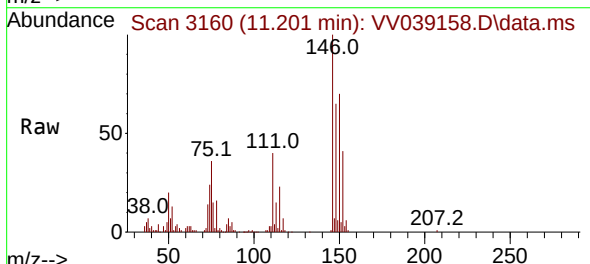
Instrument :
MSVOA_V
ClientSampleId :
FW6D

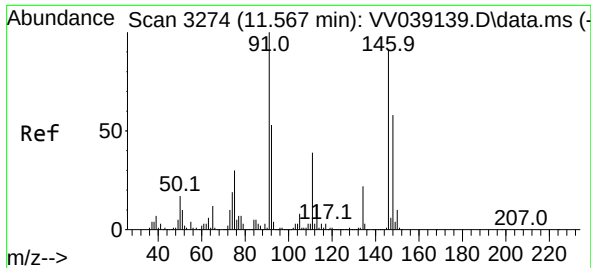
Tgt Ion:146 Resp: 7410
Ion Ratio Lower Upper
146 100
111 40.7 20.9 62.8
148 69.4 31.8 95.3



#88
1,4-Dichlorobenzene
Concen: 6.096 ug/l
RT: 11.201 min Scan# 3160
Delta R.T. 0.006 min
Lab File: VV039158.D
Acq: 24 Sep 2025 17:22

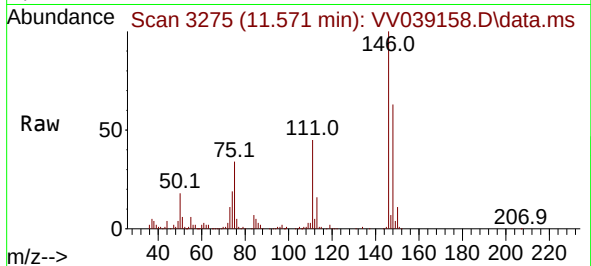
Tgt Ion:146 Resp: 91622
Ion Ratio Lower Upper
146 100
111 43.7 20.3 60.8
148 62.7 31.4 94.2





#91
 1,2-Dichlorobenzene
 Concen: 6.573 ug/l
 RT: 11.571 min Scan# 31
 Delta R.T. 0.004 min
 Lab File: VV039158.D
 Acq: 24 Sep 2025 17:22

Instrument :
 MSVOA_V
 ClientSampleId :
 FW6D



Tgt Ion:	146	Resp:	84138
Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.5	64.5
148	65.7	31.9	95.7

