

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV102125\
 Data File : VV039299.D
 Acq On : 21 Oct 2025 12:45
 Operator : SY/MD
 Sample : Q3390-07
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 4090

Quant Time: Oct 24 04:47:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

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

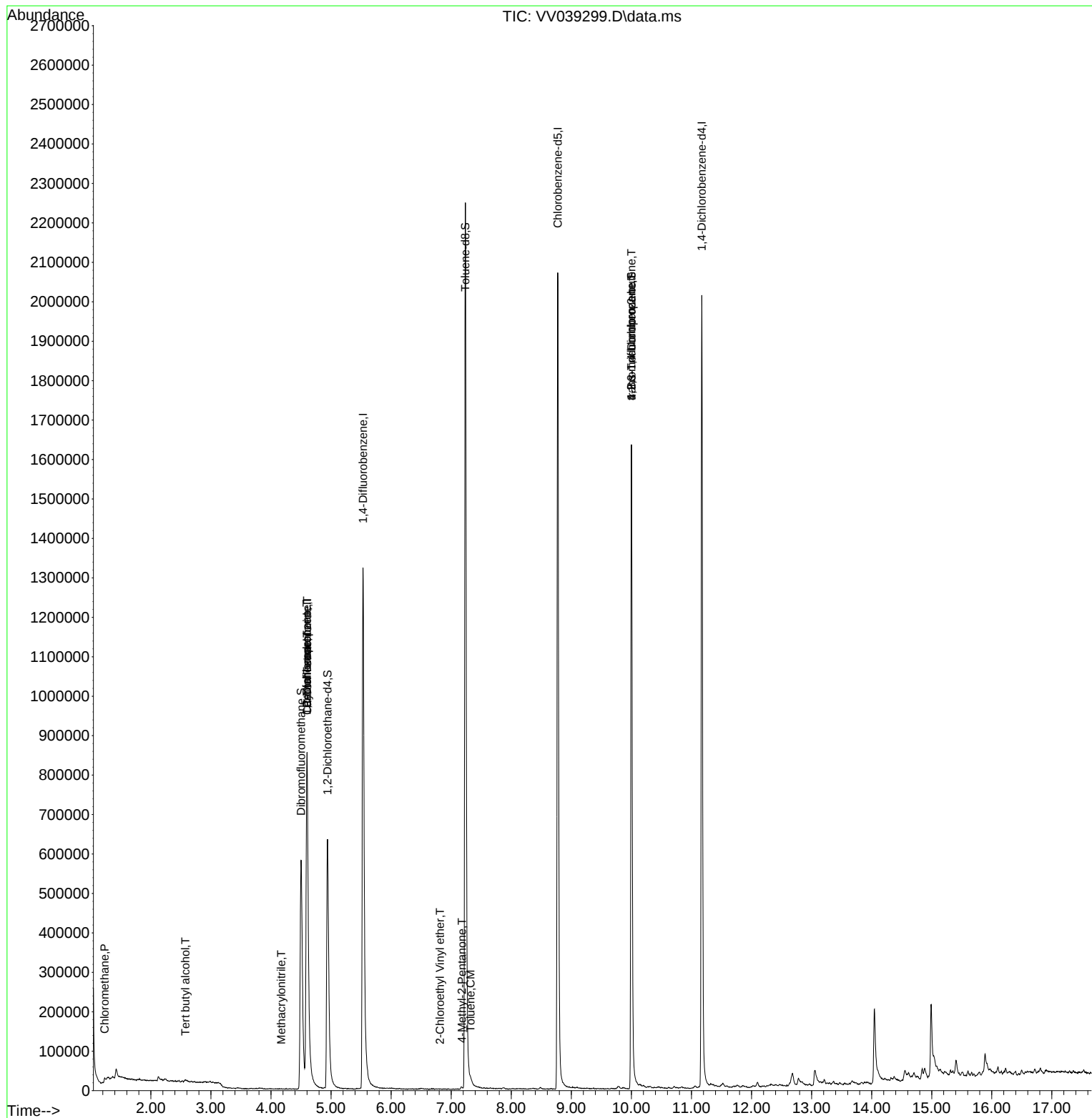
Internal Standards						
1) Pentafluorobenzene	4.600	168	748321	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1293891	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1189147	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	550871	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	575126	54.088	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 108.180%	
35) Dibromofluoromethane	4.500	113	493879	48.444	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 96.880%	
50) Toluene-d8	7.236	98	1602474	46.204	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 92.400%	
62) 4-Bromofluorobenzene	10.001	95	568051	45.989	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 91.980%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.230	50	5100	0.518	ug/l	96
6) Chloroethane	1.532	64	394	Below Cal	#	75
11) Tert butyl alcohol	2.574	59	2912	1.413	ug/l	98
13) Acrolein	2.021	56	232	Below Cal	#	71
16) Acetone	2.130	43	15309	Below Cal		97
20) Methylene Chloride	2.461	84	1499	Below Cal	#	60
31) Cyclohexane	4.600	56	14874	1.061	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	57726	4.508	ug/l #	45
38) Carbon Tetrachloride	4.603	117	77083	4.941	ug/l #	17
41) Methacrylonitrile	4.172	41	135	1.712	ug/l #	1
51) 4-Methyl-2-Pentanone	7.178	43	4047	0.297	ug/l	100
52) Toluene	7.323	92	6681	0.269	ug/l	86
58) 2-Chloroethyl Vinyl ether	6.815	63	48	8.474	ug/l #	45
76) 1,2,3-Trichloropropane	10.001	75	277401	25.230	ug/l #	54
81) trans-1,4-Dichloro-2-b...	10.001	75	277401	63.719	ug/l #	14

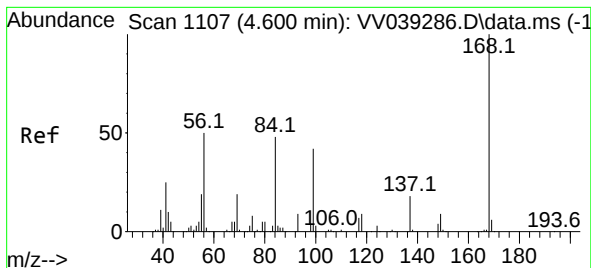
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV102125\
Data File : VV039299.D
Acq On : 21 Oct 2025 12:45
Operator : SY/MD
Sample : Q3390-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
4090

Quant Time: Oct 24 04:47:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:01:26 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.000 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

Instrument :

MSVOA_V

ClientSampleId :

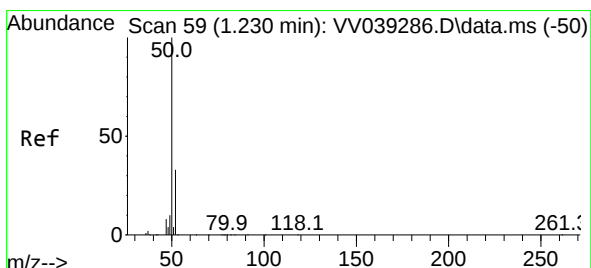
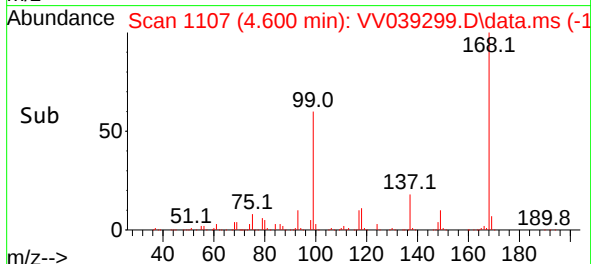
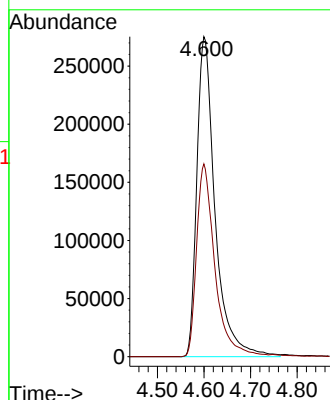
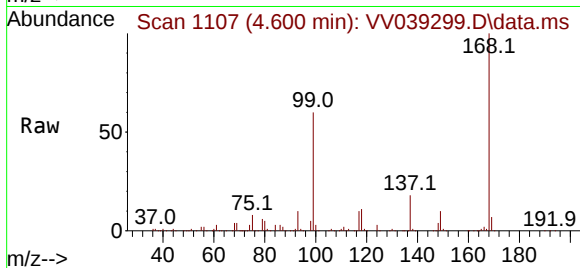
4090

Tgt Ion:168 Resp: 748321

Ion Ratio Lower Upper

168 100

99 60.2 46.6 70.0



#3

Chloromethane

Concen: 0.518 ug/l

RT: 1.230 min Scan# 59

Delta R.T. 0.000 min

Lab File: VV039299.D

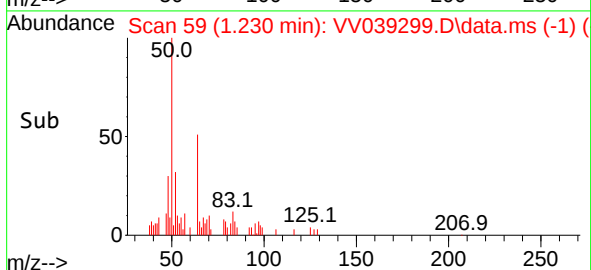
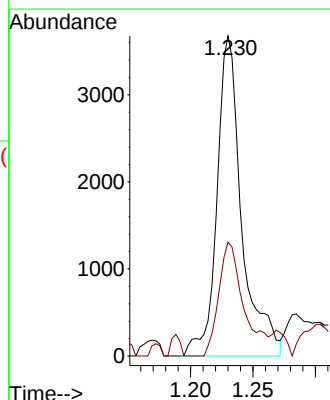
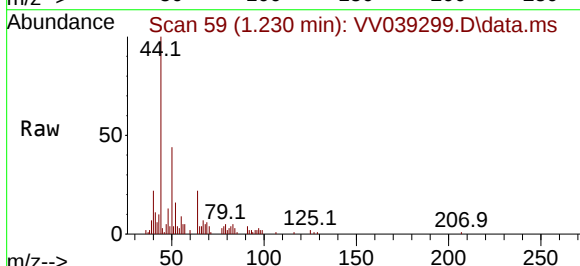
Acq: 21 Oct 2025 12:45

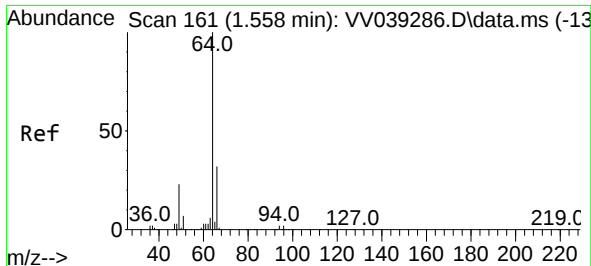
Tgt Ion: 50 Resp: 5100

Ion Ratio Lower Upper

50 100

52 31.0 26.6 39.8

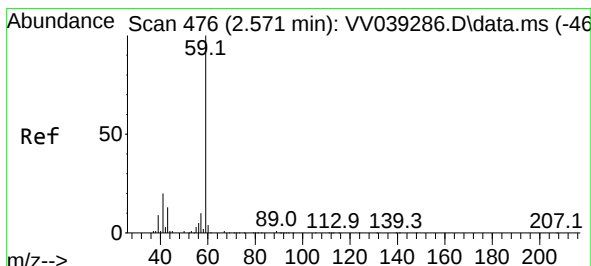
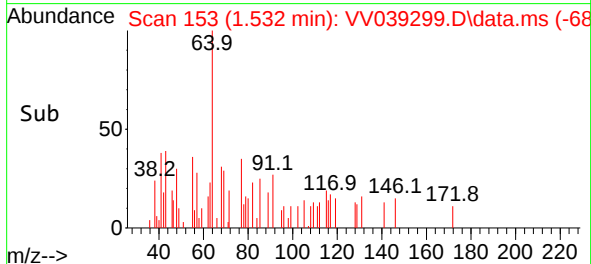
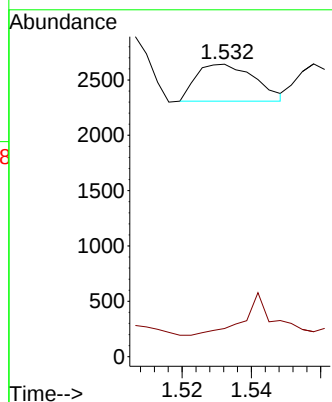
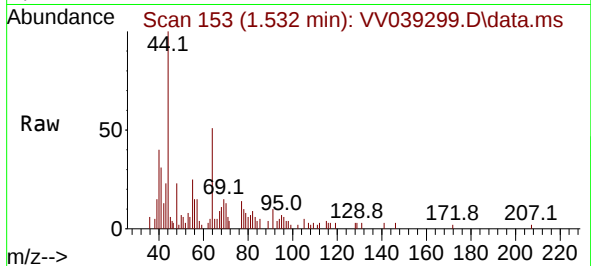




#6
Chloroethane
Concen: Below Cal
RT: 1.532 min Scan# 11
Delta R.T. -0.026 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

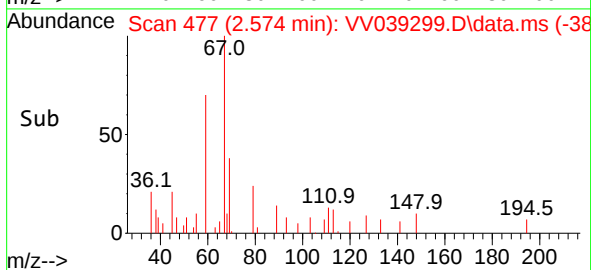
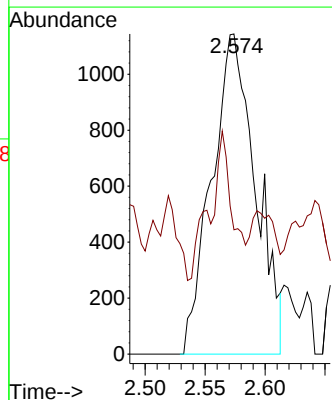
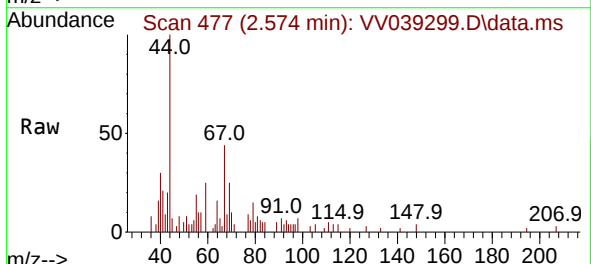
Instrument :
MSVOA_V
ClientSampleId :
4090

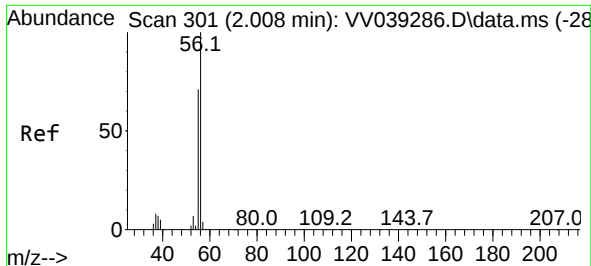
Tgt Ion: 64 Resp: 394
Ion Ratio Lower Upper
64 100
66 18.0 25.7 38.5#



#11
Tert butyl alcohol
Concen: 1.413 ug/l
RT: 2.574 min Scan# 477
Delta R.T. 0.003 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

Tgt Ion: 59 Resp: 2912
Ion Ratio Lower Upper
59 100
57 9.4 8.1 12.1

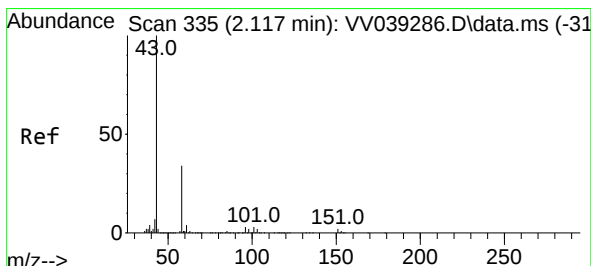
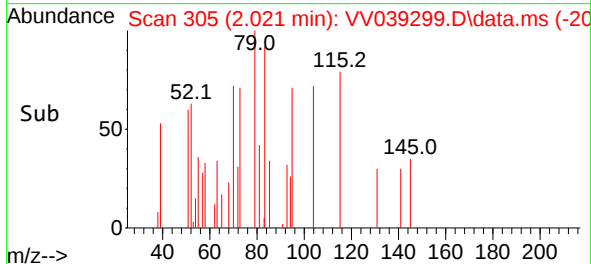
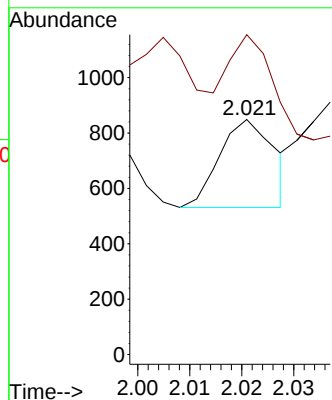
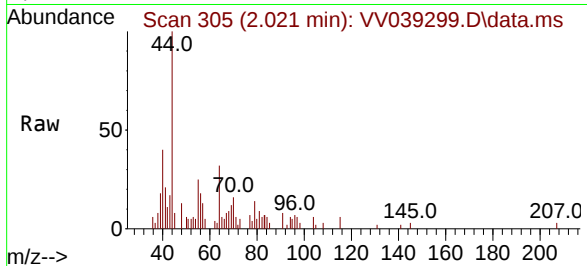




#13
Acrolein
Concen: Below Cal
RT: 2.021 min Scan# 301
Delta R.T. 0.013 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

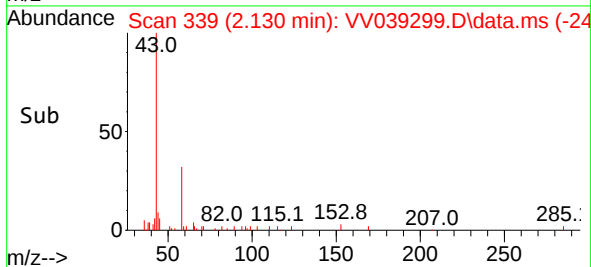
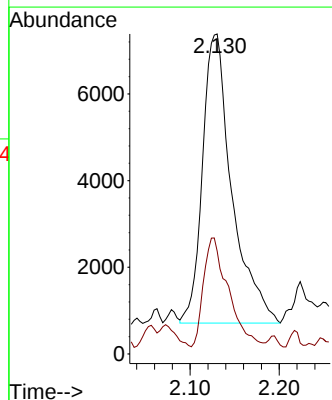
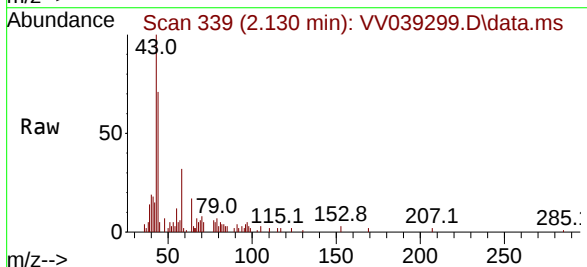
Instrument :
MSVOA_V
ClientSampleId :
4090

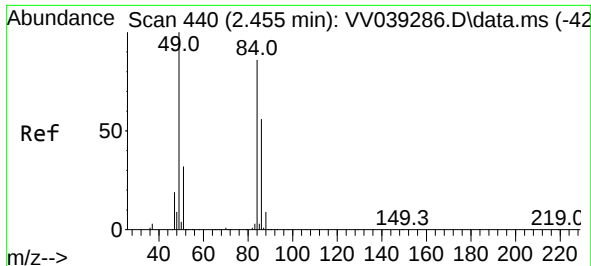
Tgt Ion: 56 Resp: 232
Ion Ratio Lower Upper
56 100
55 94.4 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.130 min Scan# 339
Delta R.T. 0.013 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

Tgt Ion: 43 Resp: 15309
Ion Ratio Lower Upper
43 100
58 32.5 27.5 41.3

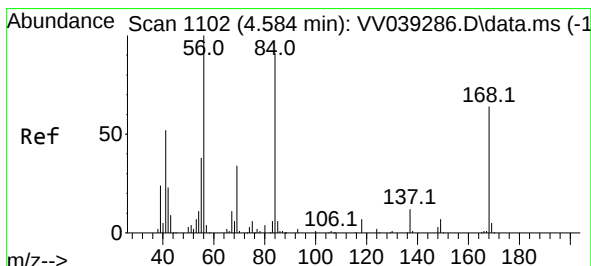
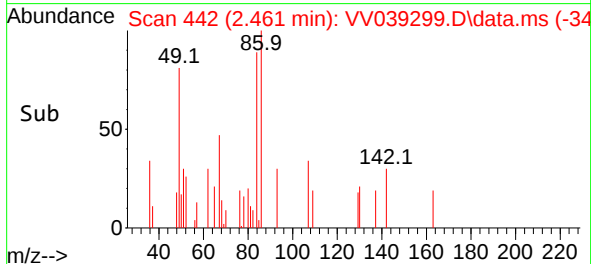
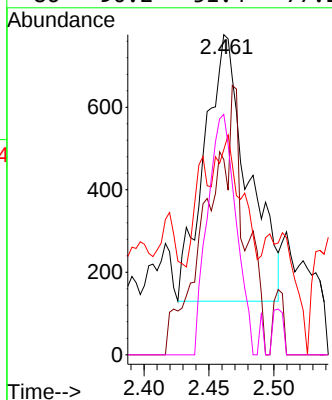
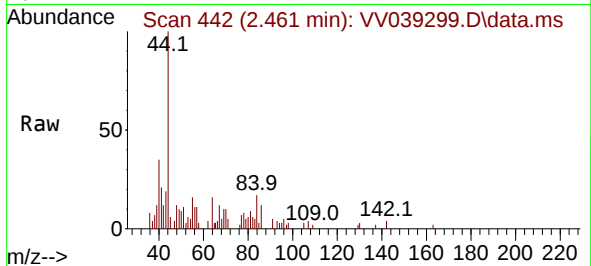




#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

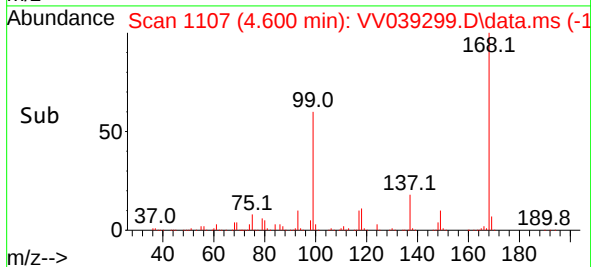
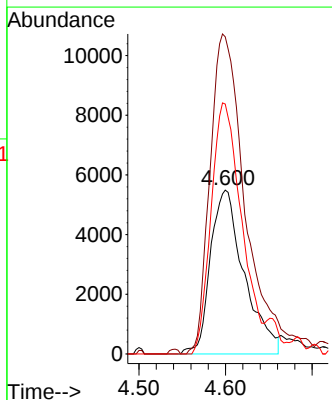
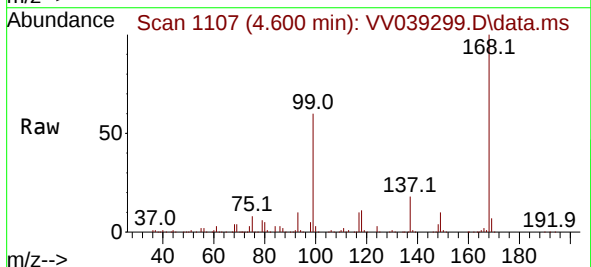
Instrument :
MSVOA_V
ClientSampleId :
4090

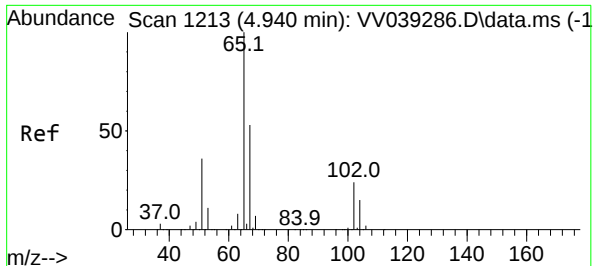
Tgt Ion:	84	Resp:	1499
Ion	Ratio	Lower	Upper
84	100		
49	56.8	92.6	139.0#
51	41.8	29.6	44.4
86	90.2	51.4	77.2#



#31
Cyclohexane
Concen: 1.061 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

Tgt Ion:	56	Resp:	14874
Ion	Ratio	Lower	Upper
56	100		
69	191.1	27.4	41.0#
84	152.5	72.8	109.2#





#33

1,2-Dichloroethane-d4

Concen: 54.088 ug/l

RT: 4.940 min Scan# 1213

Delta R.T. 0.000 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

Instrument :

MSVOA_V

ClientSampleId :

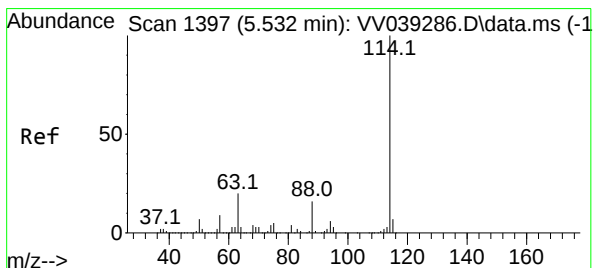
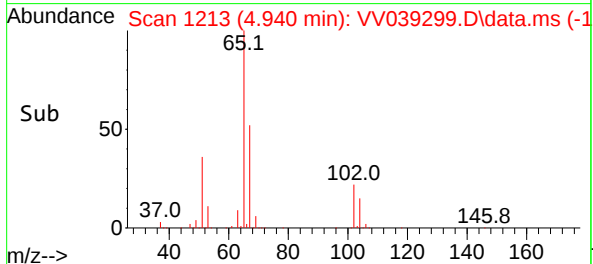
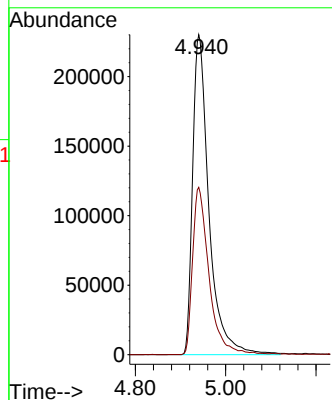
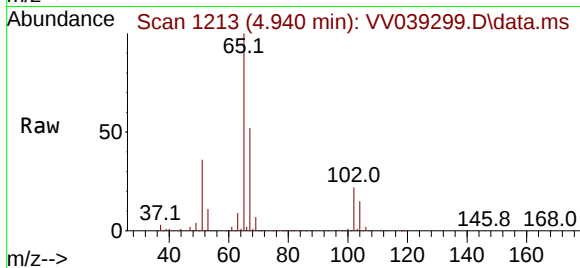
4090

Tgt Ion: 65 Resp: 575126

Ion Ratio Lower Upper

65 100

67 52.3 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

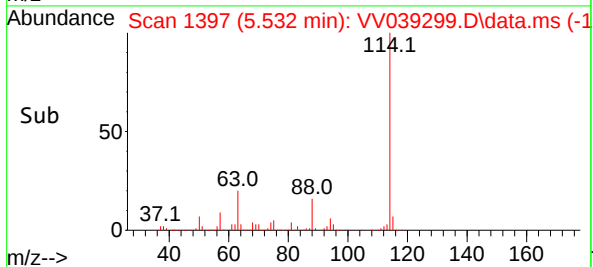
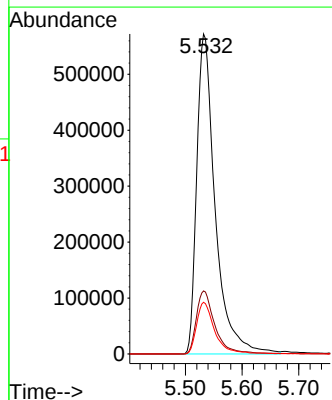
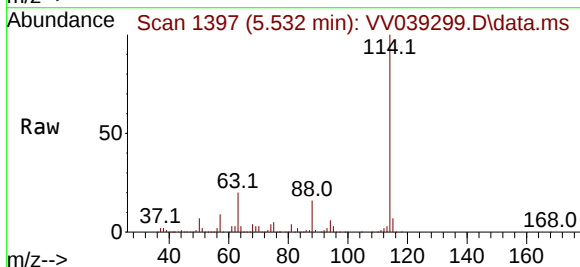
Tgt Ion: 114 Resp: 1293891

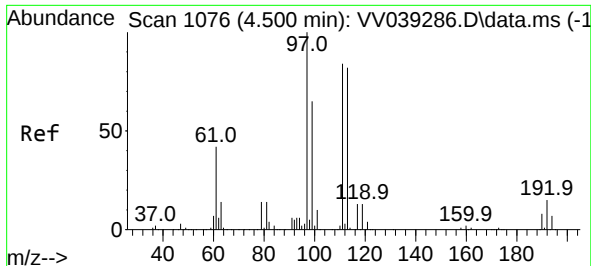
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 16.2 0.0 31.6

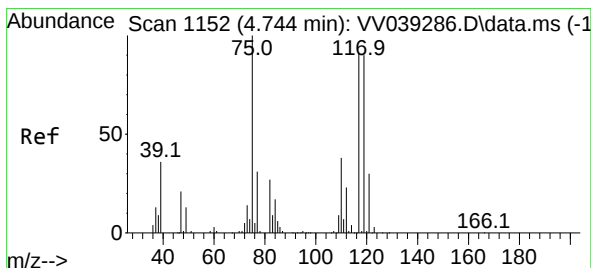
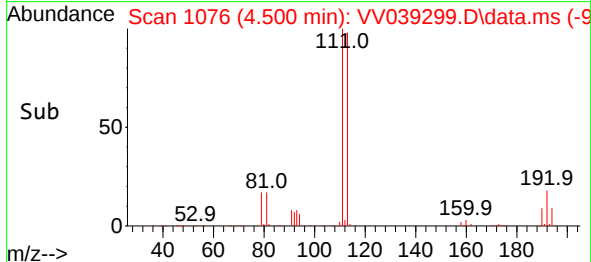
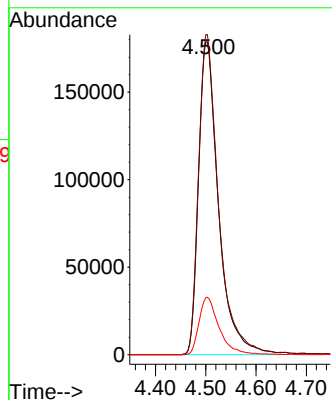
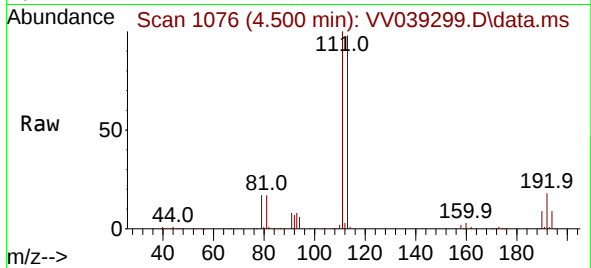




#35
 Dibromofluoromethane
 Concen: 48.444 ug/l
 RT: 4.500 min Scan# 1106
 Delta R.T. 0.000 min
 Lab File: VV039299.D
 Acq: 21 Oct 2025 12:45

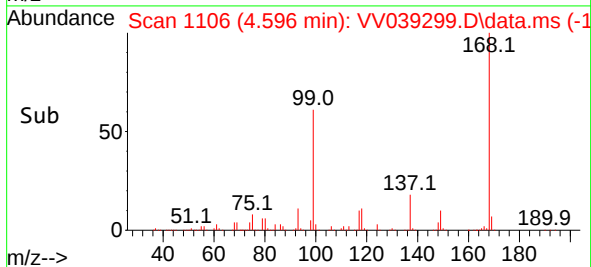
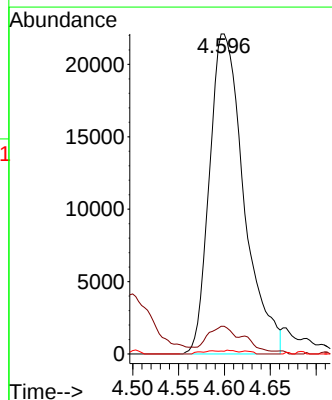
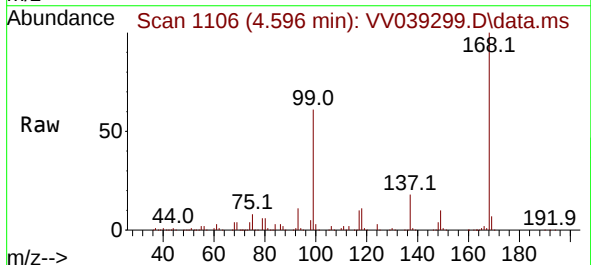
Instrument :
 MSVOA_V
 ClientSampleId :
 4090

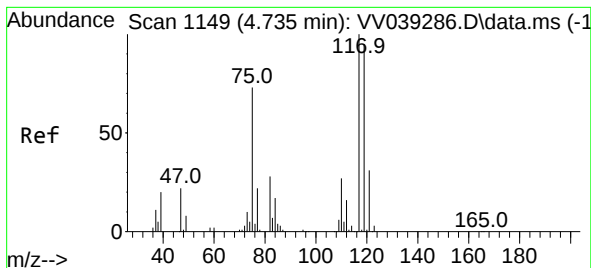
Tgt Ion:113 Resp: 493879
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.0 123.0
 192 18.4 14.3 21.5



#36
 1,1-Dichloropropene
 Concen: 4.508 ug/l
 RT: 4.596 min Scan# 1106
 Delta R.T. -0.148 min
 Lab File: VV039299.D
 Acq: 21 Oct 2025 12:45

Tgt Ion: 75 Resp: 57726
 Ion Ratio Lower Upper
 75 100
 110 4.6 18.9 56.7#
 77 0.3 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 4.941 ug/l

RT: 4.603 min Scan# 11

Delta R.T. -0.132 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

Instrument :

MSVOA_V

ClientSampleId :

4090

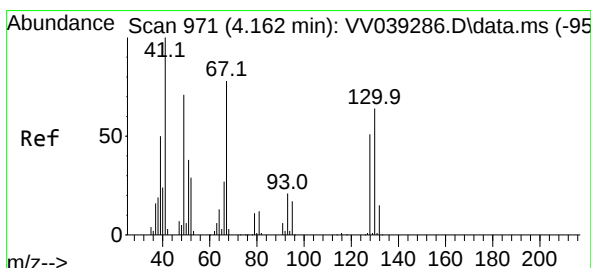
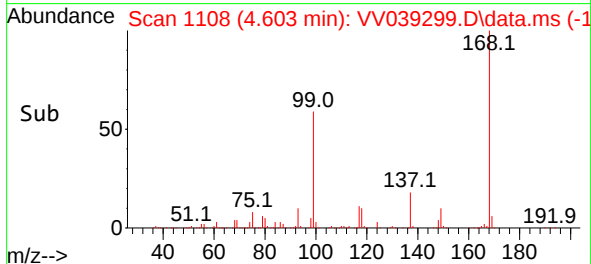
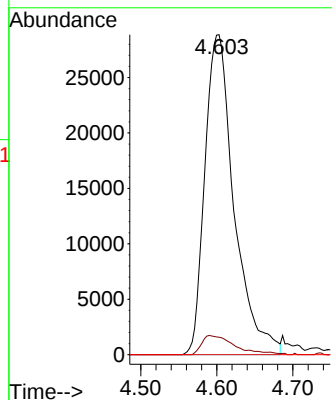
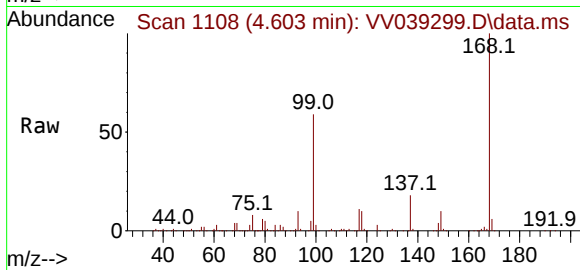
Tgt Ion:117 Resp: 77083

Ion Ratio Lower Upper

117 100

119 5.4 75.9 113.9#

121 0.0 24.6 37.0#



#41

Methacrylonitrile

Concen: 1.712 ug/l

RT: 4.172 min Scan# 974

Delta R.T. 0.010 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

Tgt Ion: 41 Resp: 135

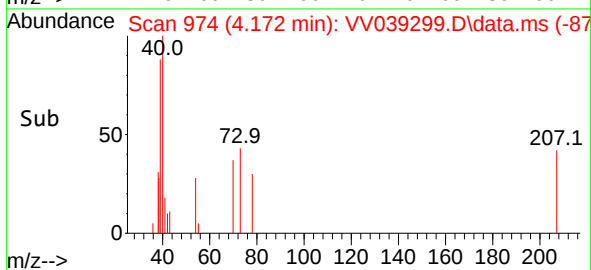
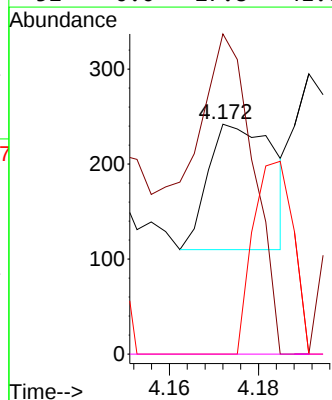
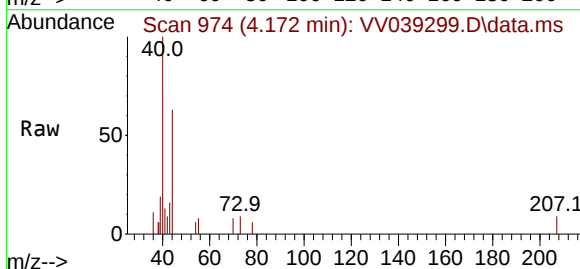
Ion Ratio Lower Upper

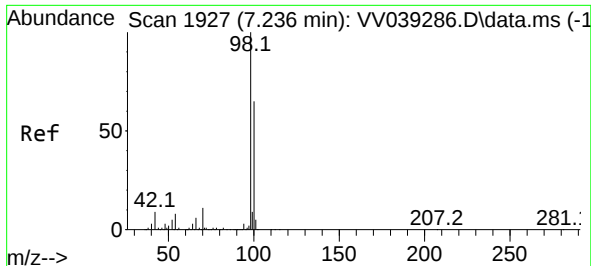
41 100

39 237.0 40.9 61.3#

67 0.0 73.1 109.7#

52 0.0 27.8 41.6#

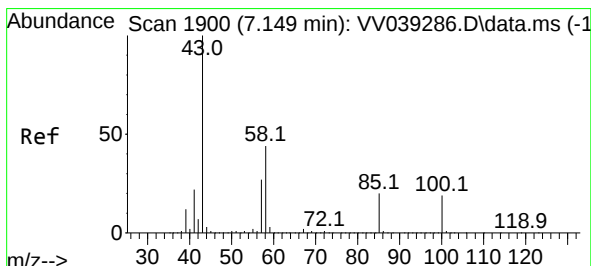
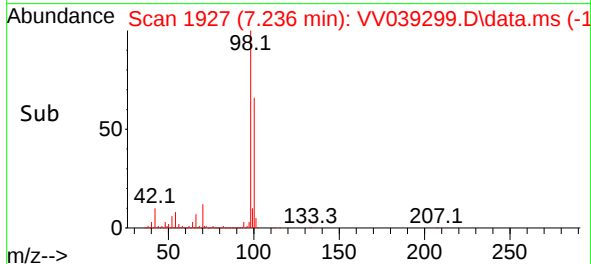
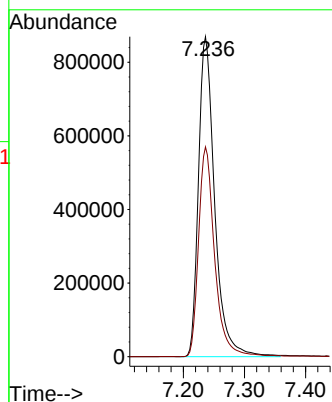
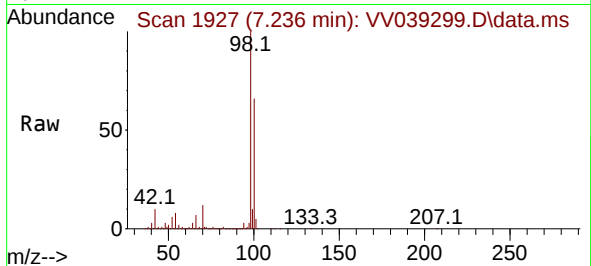




#50
Toluene-d8
Concen: 46.204 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

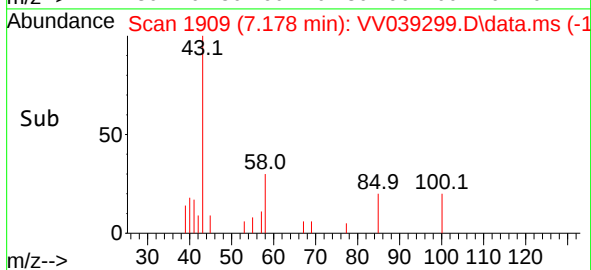
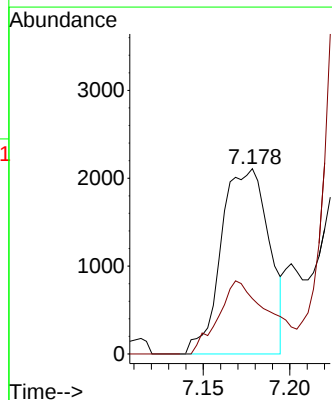
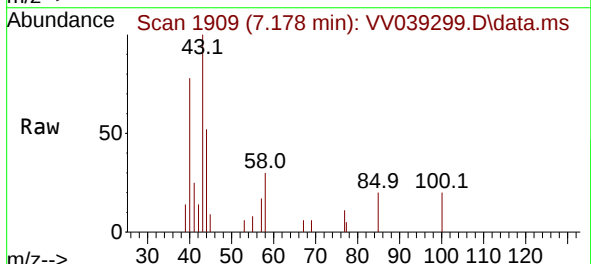
Instrument :
MSVOA_V
ClientSampleId :
4090

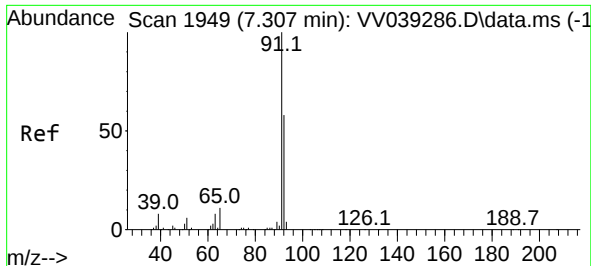
Tgt Ion: 98 Resp: 1602474
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.297 ug/l
RT: 7.178 min Scan# 1909
Delta R.T. 0.029 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

Tgt Ion: 43 Resp: 4047
Ion Ratio Lower Upper
43 100
58 42.9 34.2 51.4

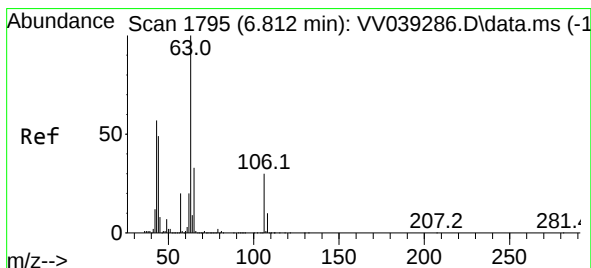
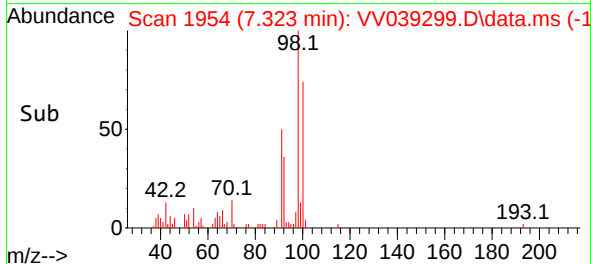
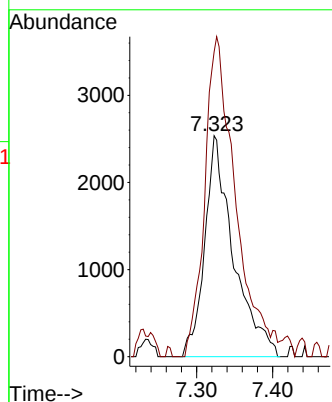
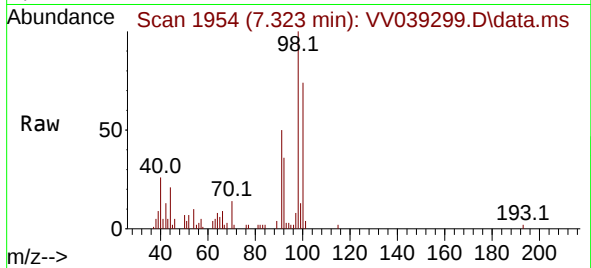




#52
Toluene
Concen: 0.269 ug/l
RT: 7.323 min Scan# 1949
Delta R.T. 0.016 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

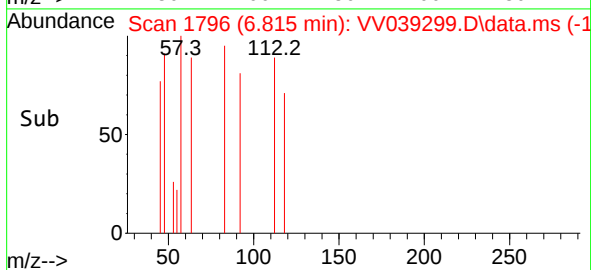
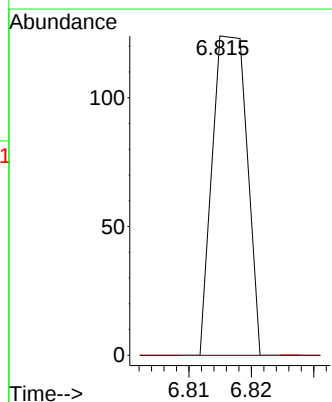
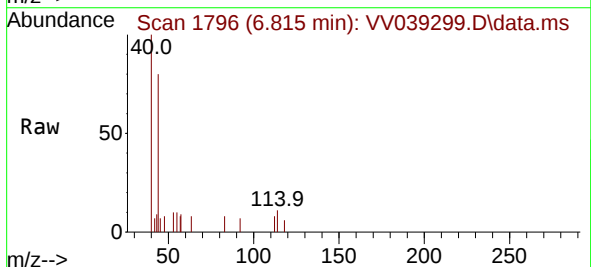
Instrument : MSVOA_V
ClientSampleId : 4090

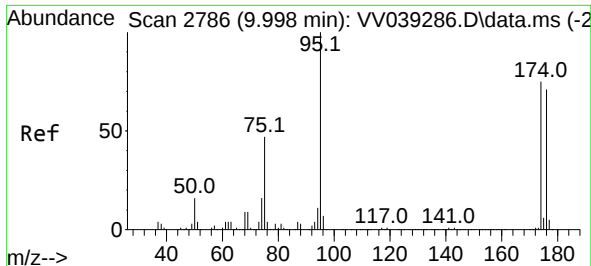
Tgt Ion: 92 Resp: 6681
Ion Ratio Lower Upper
92 100
91 152.1 137.3 205.9



#58
2-Chloroethyl Vinyl ether
Concen: 8.474 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.003 min
Lab File: VV039299.D
Acq: 21 Oct 2025 12:45

Tgt Ion: 63 Resp: 48
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#





#62

4-Bromofluorobenzene

Concen: 45.989 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

Instrument :

MSVOA_V

ClientSampleId :

4090

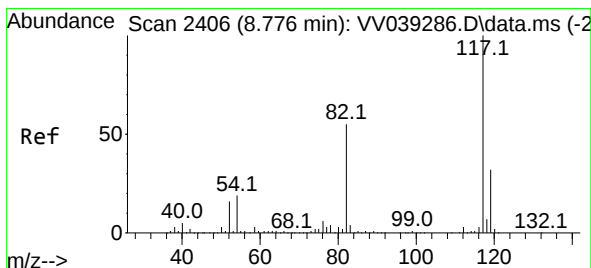
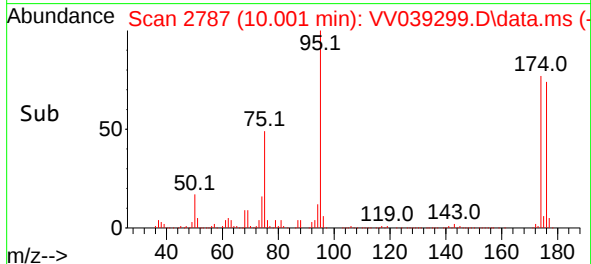
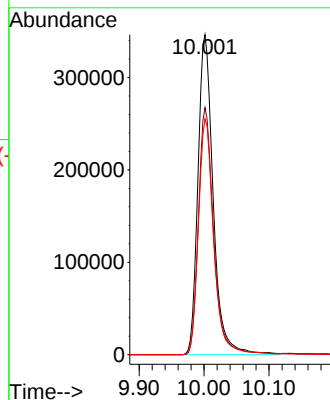
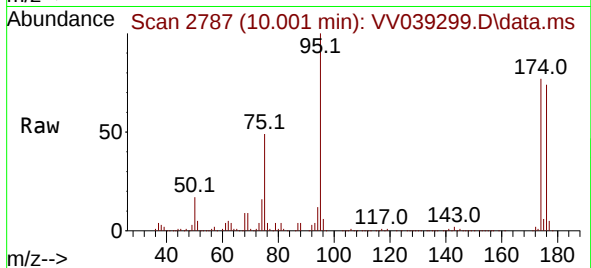
Tgt Ion: 95 Resp: 568051

Ion Ratio Lower Upper

95 100

174 76.9 0.0 153.6

176 73.7 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2405

Delta R.T. -0.003 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

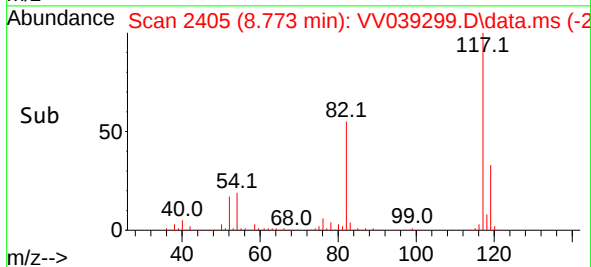
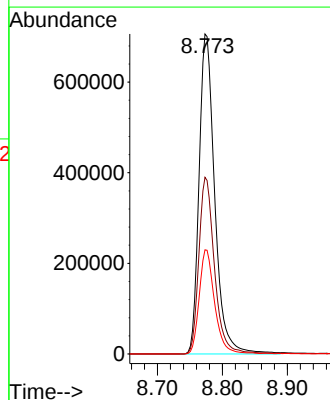
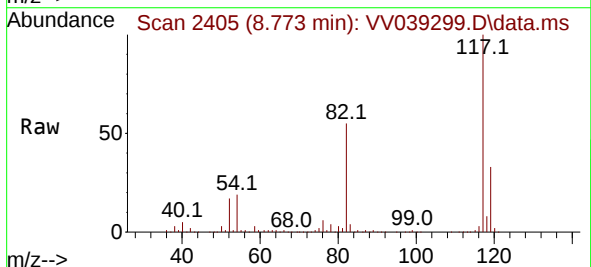
Tgt Ion: 117 Resp: 1189147

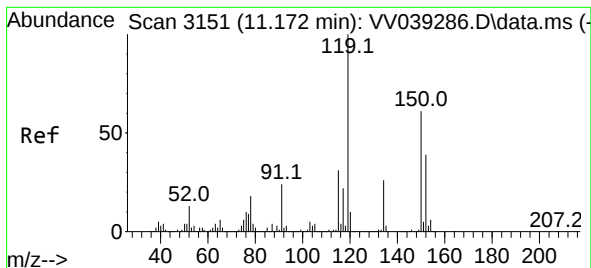
Ion Ratio Lower Upper

117 100

82 55.2 43.8 65.8

119 32.5 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VV039299.D

Acq: 21 Oct 2025 12:45

Instrument :

MSVOA_V

ClientSampleId :

4090

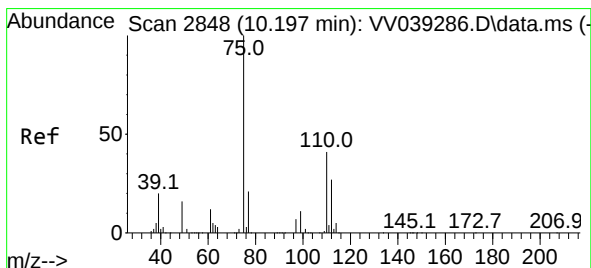
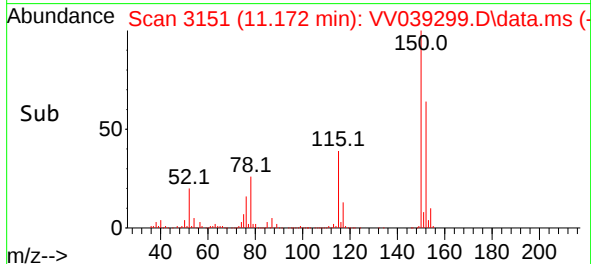
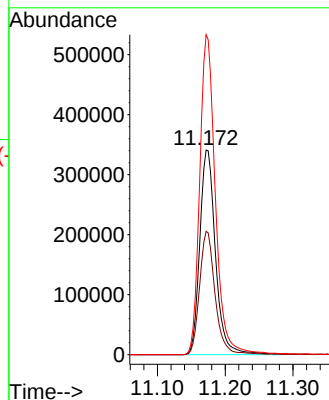
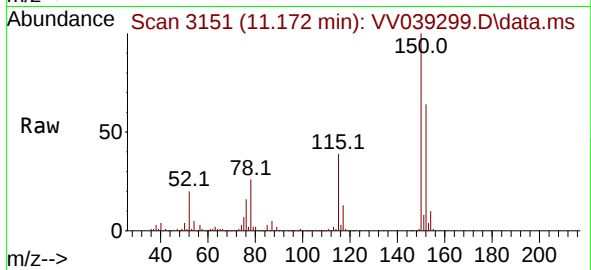
Tgt Ion:152 Resp: 550871

Ion Ratio Lower Upper

152 100

115 59.6 42.3 126.8

150 155.8 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 25.230 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039299.D

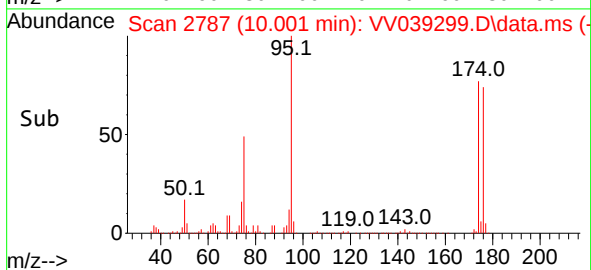
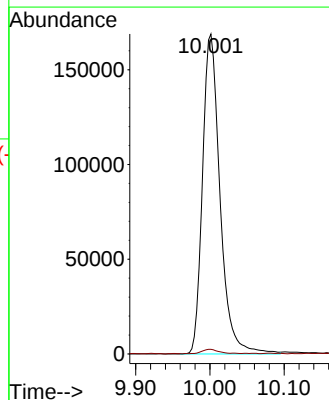
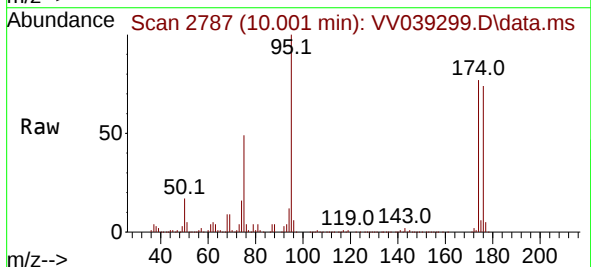
Acq: 21 Oct 2025 12:45

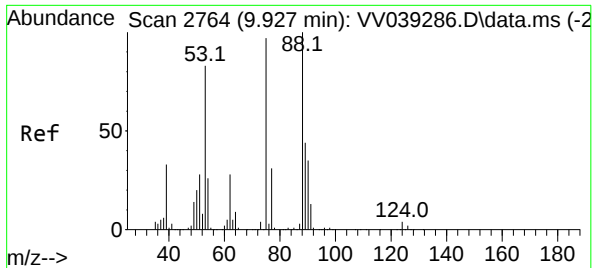
Tgt Ion: 75 Resp: 277401

Ion Ratio Lower Upper

75 100

77 1.3 12.2 36.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.719 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. 0.074 min
 Lab File: VV039299.D
 Acq: 21 Oct 2025 12:45

Instrument :
 MSVOA_V
 ClientSampleId :
 4090

Tgt Ion: 75 Resp: 277401
 Ion Ratio Lower Upper
 75 100
 53 0.5 69.9 104.9#
 89 0.0 37.4 56.0#

