

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100625\
 Data File : VV039271.D
 Acq On : 06 Oct 2025 14:19
 Operator : SY/MD
 Sample : Q3201-01DL 100X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW6DL

Quant Time: Oct 07 03:34:39 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)

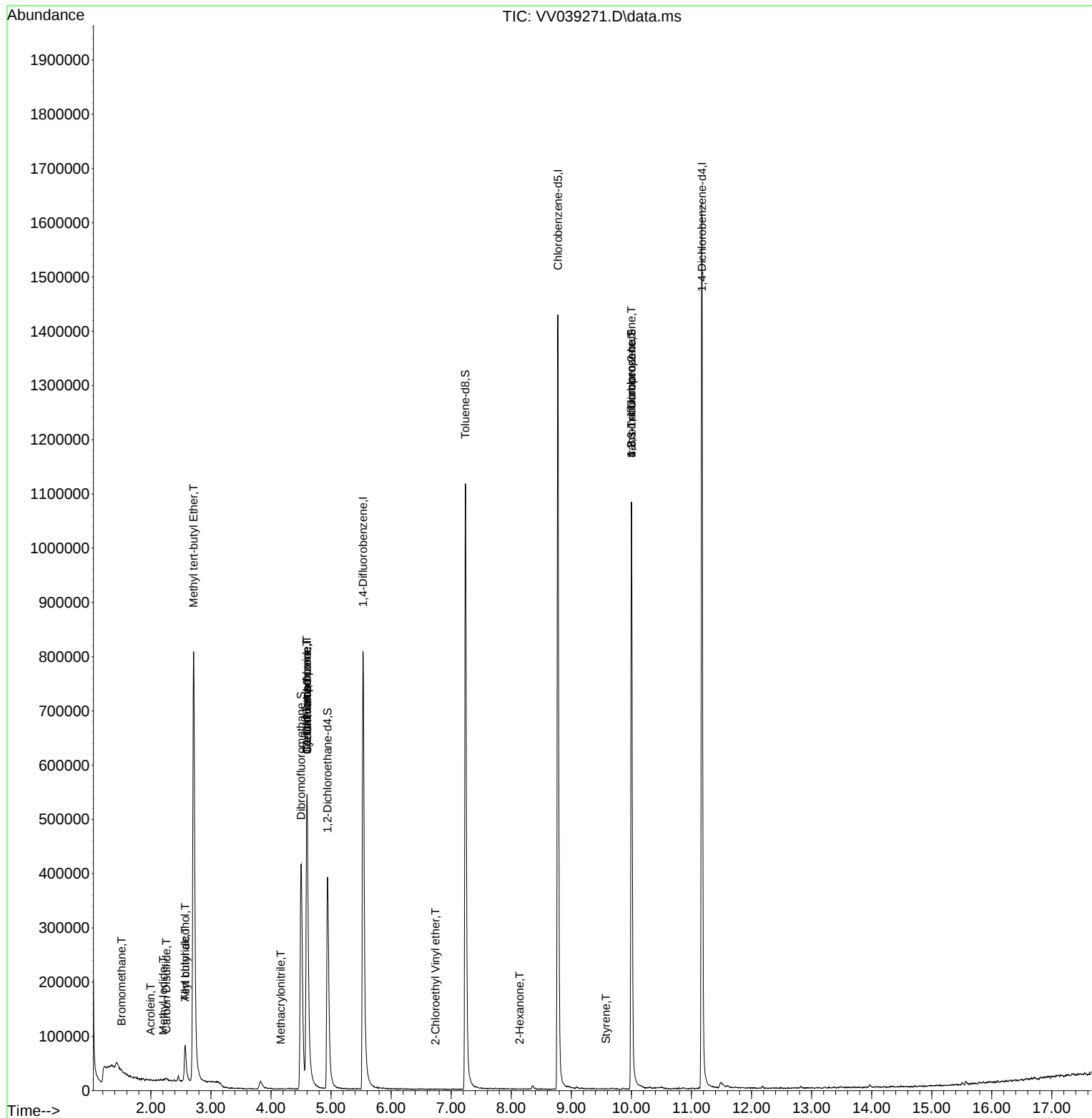
Internal Standards						
1) Pentafluorobenzene	4.600	168	477065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	810750	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	821368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	441845	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	354921	51.404	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 102.800%	
35) Dibromofluoromethane	4.503	113	354025	54.317	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 108.640%	
50) Toluene-d8	7.236	98	818283	42.746	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 85.500%#	
62) 4-Bromofluorobenzene	10.001	95	376058	47.720	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 95.440%	
Target Compounds						
						Qvalue
5) Bromomethane	1.513	94	1926	0.352	ug/l	98
6) Chloroethane	1.738	64	1046	Below Cal	#	44
10) Methyl Iodide	2.207	142	4758	0.668	ug/l #	70
11) Tert butyl alcohol	2.571	59	82225	56.346	ug/l	97
13) Acrolein	1.995	56	238	0.940	ug/l #	51
14) Allyl chloride	2.571	41	18788	1.462	ug/l #	58
16) Acetone	2.130	43	2458	Below Cal		94
17) Carbon Disulfide	2.259	76	7394	0.336	ug/l #	91
19) Methyl tert-butyl Ether	2.712	73	944490	41.207	ug/l	99
20) Methylene Chloride	2.455	84	3560	Below Cal		97
31) Cyclohexane	4.603	56	10230	0.831	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	39333	3.991	ug/l #	51
38) Carbon Tetrachloride	4.596	117	48361	4.016	ug/l #	19
41) Methacrylonitrile	4.162	41	92	1.927	ug/l #	28
58) 2-Chloroethyl Vinyl ether	6.738	63	81	9.637	ug/l #	47
59) 2-Hexanone	8.140	43	50	2.331	ug/l	80
70) Styrene	9.577	104	134	1.567	ug/l #	48
76) 1,2,3-Trichloropropane	10.001	75	182326	18.124	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.001	75	182326	43.509	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.352	75	55	Below Cal	#	5

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100625\
Data File : VV039271.D
Acq On : 06 Oct 2025 14:19
Operator : SY/MD
Sample : Q3201-01DL 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW6DL

Quant Time: Oct 07 03:34:39 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

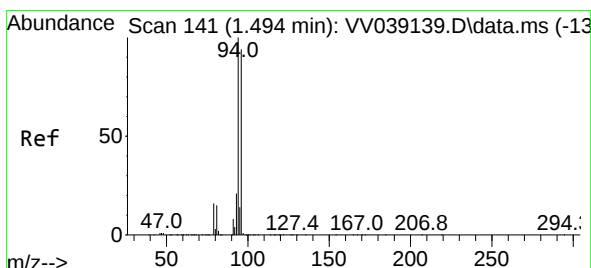
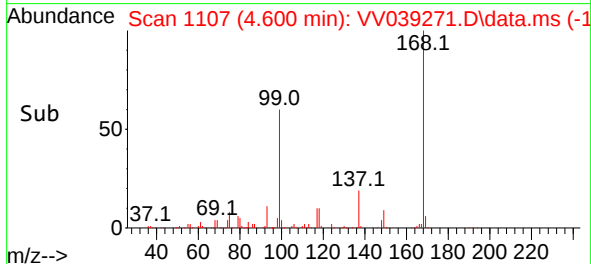
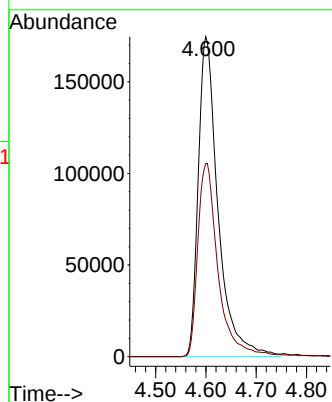
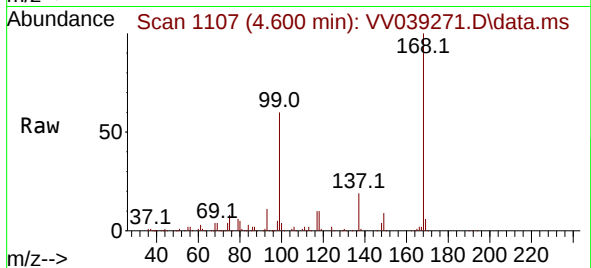




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

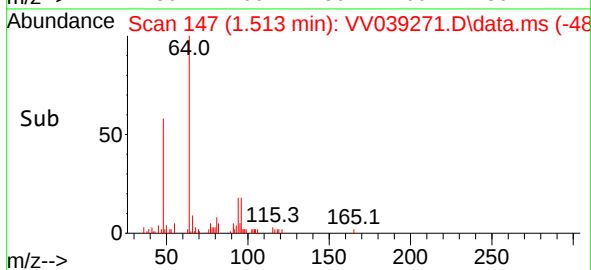
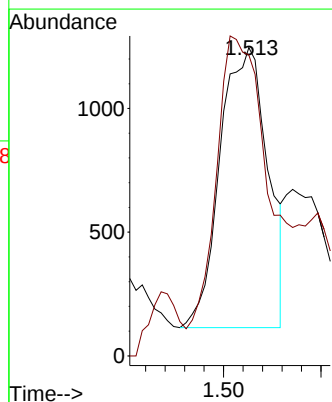
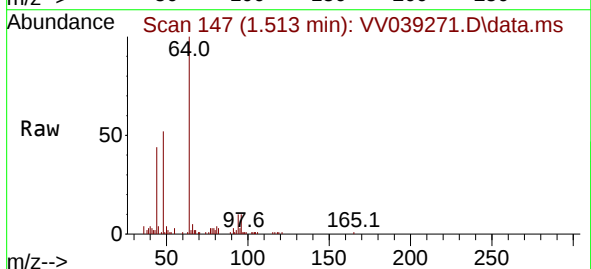
Instrument :
MSVOA_V
ClientSampleId :
MW6DL

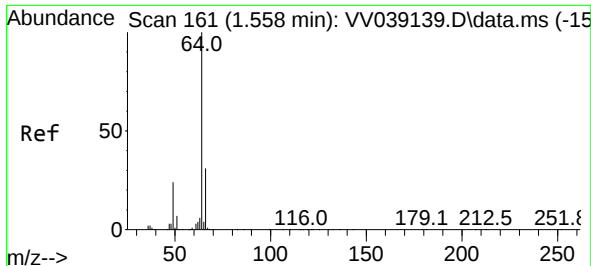
Tgt Ion:168 Resp: 477065
Ion Ratio Lower Upper
168 100
99 60.4 49.6 74.4



#5
Bromomethane
Concen: 0.352 ug/l
RT: 1.513 min Scan# 147
Delta R.T. 0.019 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion: 94 Resp: 1926
Ion Ratio Lower Upper
94 100
96 95.1 74.9 112.3

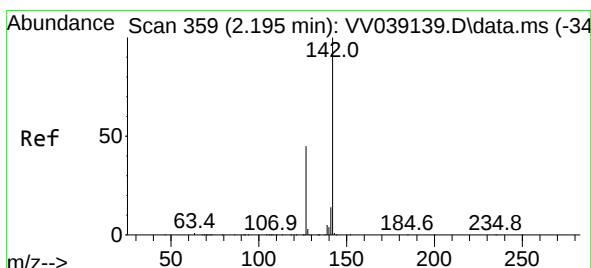
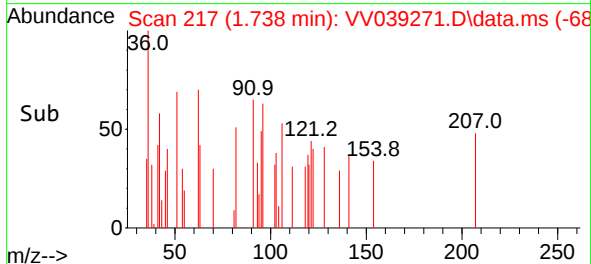
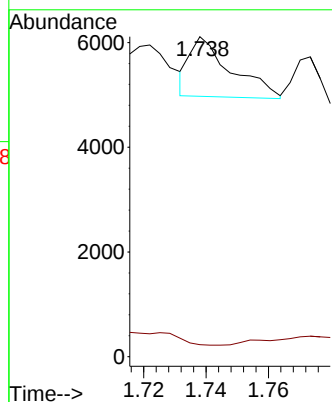
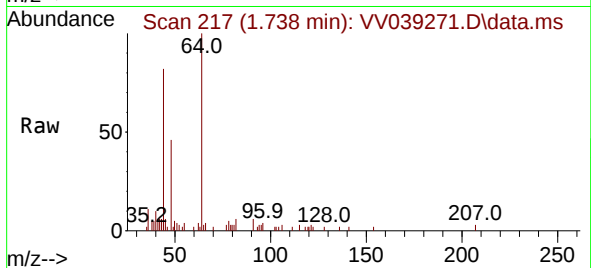




#6
Chloroethane
Concen: Below Cal
RT: 1.738 min Scan# 21
Delta R.T. 0.180 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

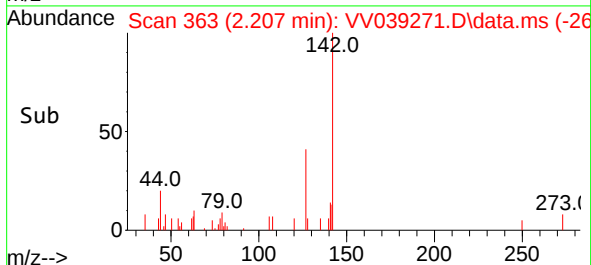
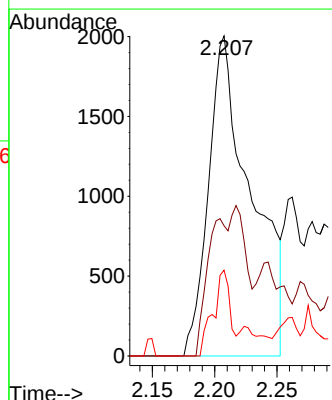
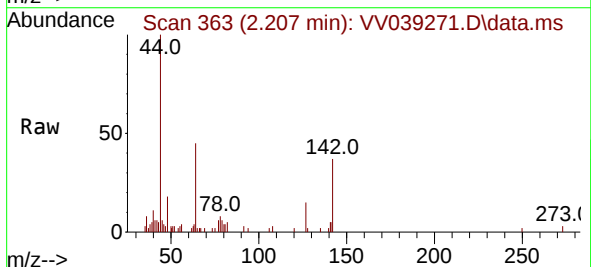
Instrument :
MSVOA_V
ClientSampleId :
MW6DL

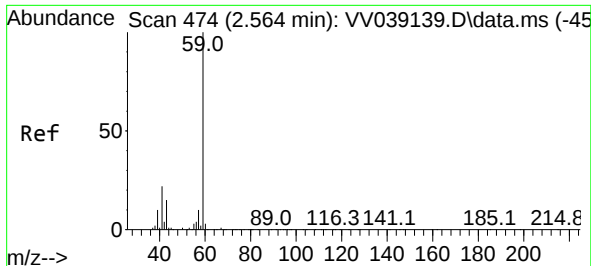
Tgt Ion: 64 Resp: 1046
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#10
Methyl Iodide
Concen: 0.668 ug/l
RT: 2.207 min Scan# 363
Delta R.T. 0.013 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion:142 Resp: 4758
Ion Ratio Lower Upper
142 100
127 21.5 36.3 54.5#
141 10.8 11.2 16.8#

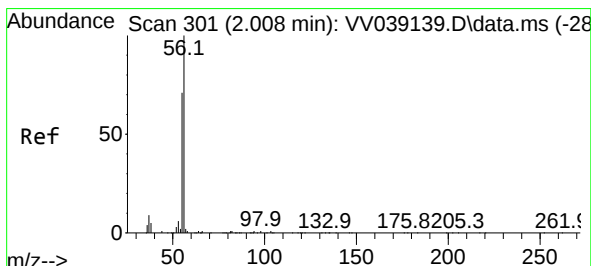
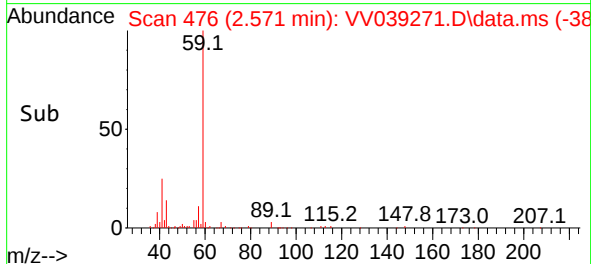
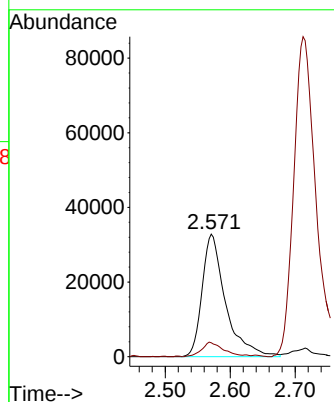
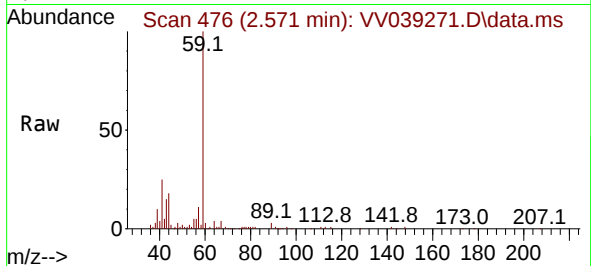




#11
Tert butyl alcohol
Concen: 56.346 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

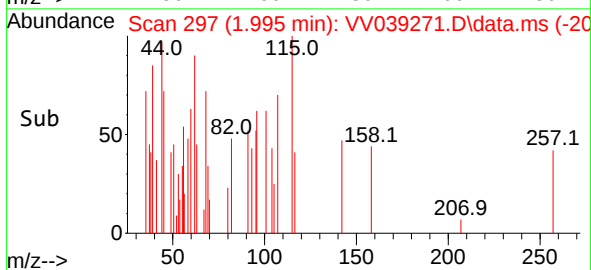
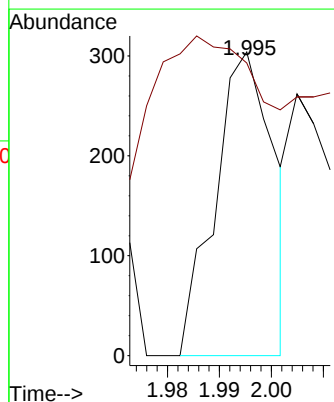
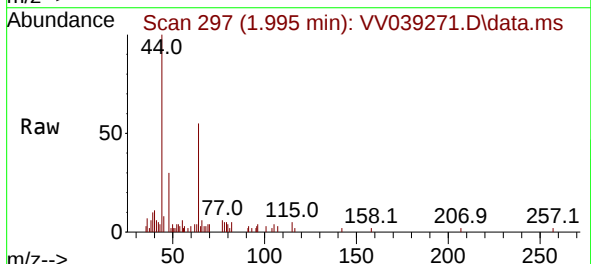
Instrument :
MSVOA_V
ClientSampleId :
MW6DL

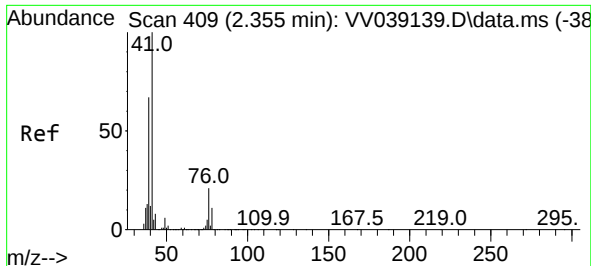
Tgt Ion: 59 Resp: 82225
Ion Ratio Lower Upper
59 100
57 10.8 7.8 11.8



#13
Acrolein
Concen: 0.940 ug/l
RT: 1.995 min Scan# 297
Delta R.T. -0.013 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion: 56 Resp: 238
Ion Ratio Lower Upper
56 100
55 110.5 56.2 84.4#

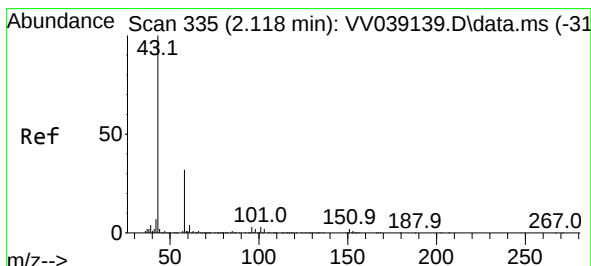
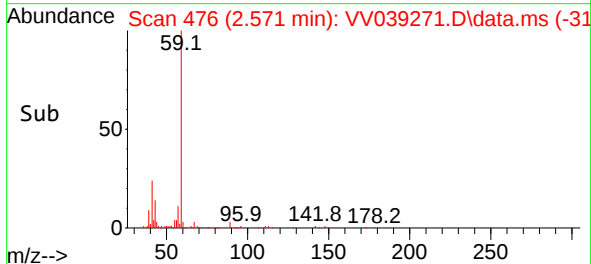
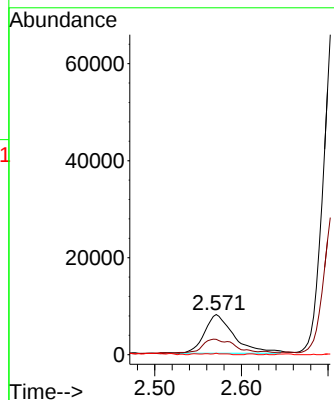
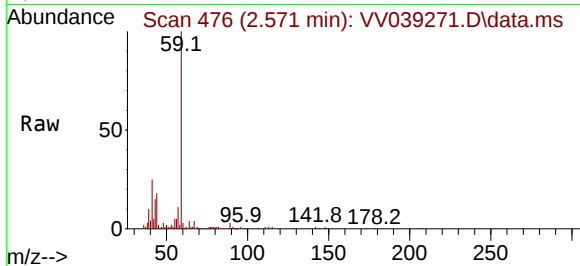




#14
 Allyl chloride
 Concen: 1.462 ug/l
 RT: 2.571 min Scan# 41
 Delta R.T. 0.215 min
 Lab File: VV039271.D
 Acq: 06 Oct 2025 14:19

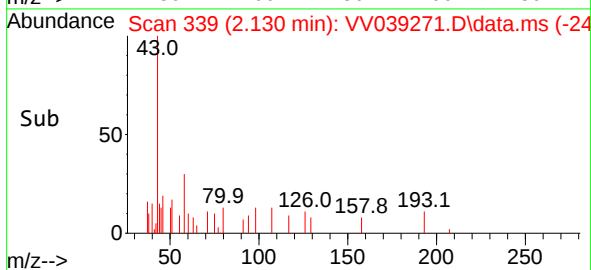
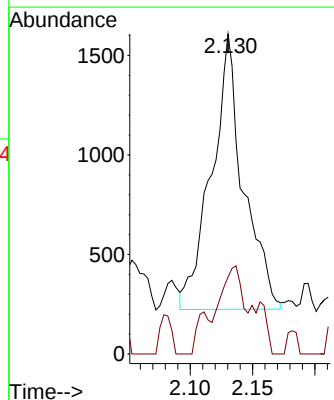
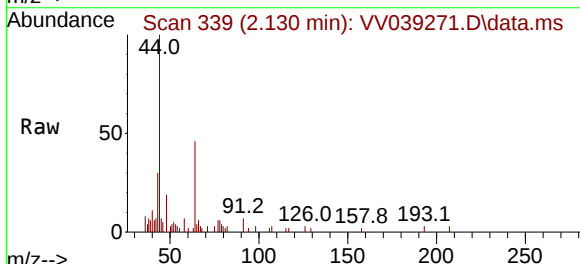
Instrument :
 MSVOA_V
 ClientSampleId :
 MW6DL

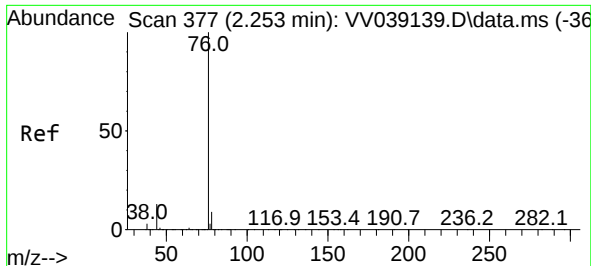
Tgt Ion: 41 Resp: 18788
 Ion Ratio Lower Upper
 41 100
 39 38.9 51.0 76.6#
 76 0.0 28.2 42.4#



#16
 Acetone
 Concen: Below Cal
 RT: 2.130 min Scan# 339
 Delta R.T. 0.012 min
 Lab File: VV039271.D
 Acq: 06 Oct 2025 14:19

Tgt Ion: 43 Resp: 2458
 Ion Ratio Lower Upper
 43 100
 58 28.7 25.8 38.6

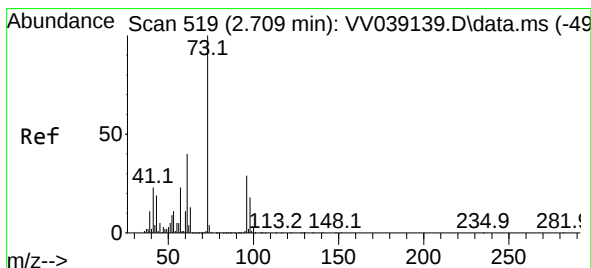
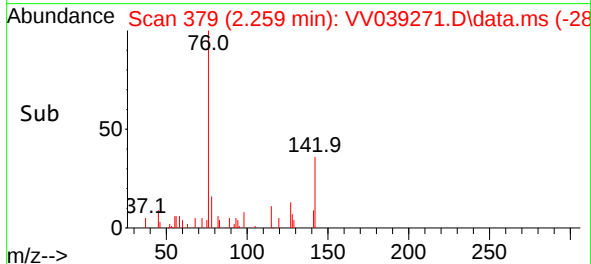
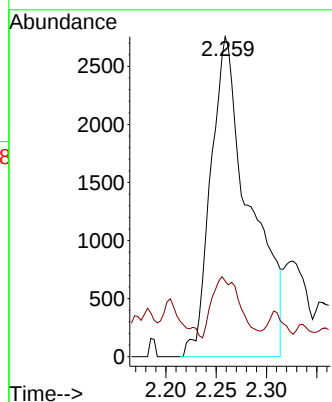
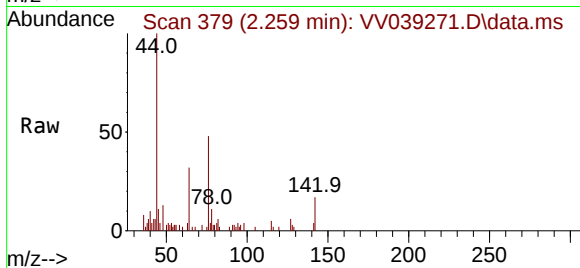




#17
Carbon Disulfide
Concen: 0.336 ug/l
RT: 2.259 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

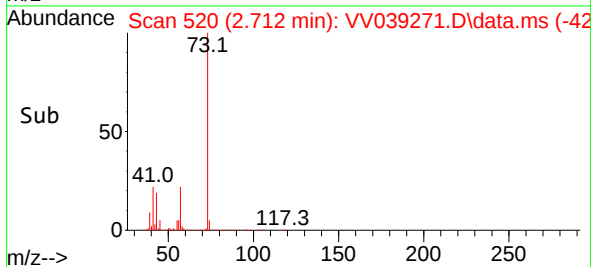
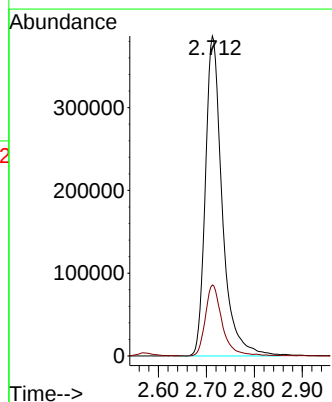
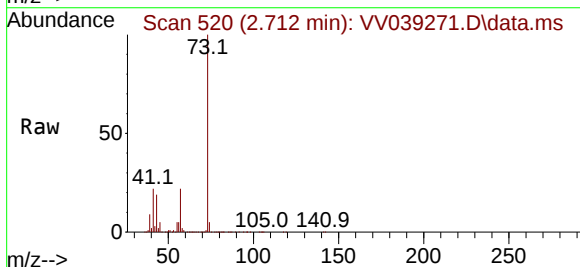
Instrument :
MSVOA_V
ClientSampleId :
MW6DL

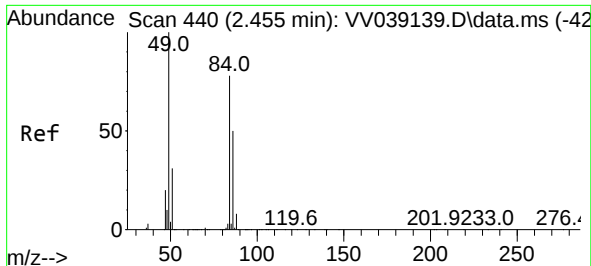
Tgt Ion: 76 Resp: 7394
Ion Ratio Lower Upper
76 100
78 12.5 7.4 11.0#



#19
Methyl tert-butyl Ether
Concen: 41.207 ug/l
RT: 2.712 min Scan# 520
Delta R.T. 0.003 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion: 73 Resp: 944490
Ion Ratio Lower Upper
73 100
57 22.1 18.2 27.4



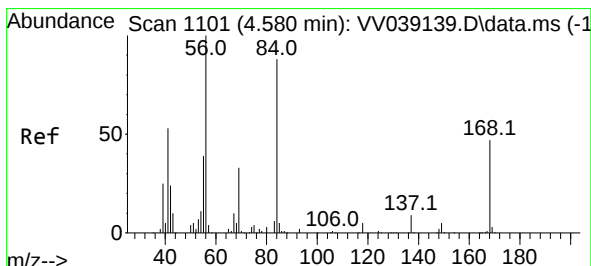
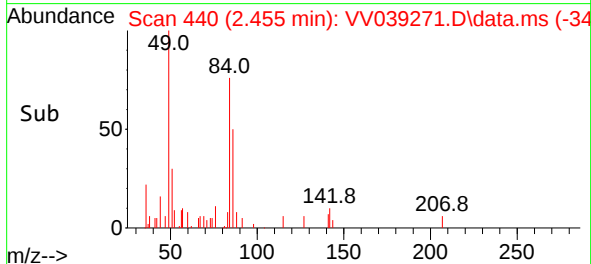
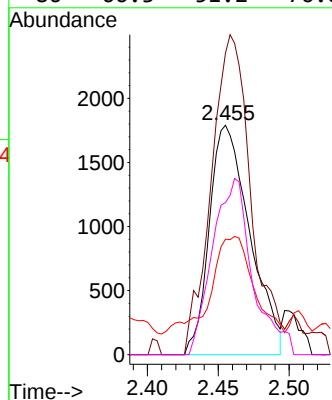
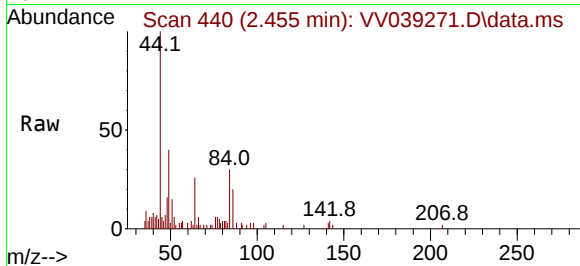


#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Instrument :
MSVOA_V
ClientSampleId :
MW6DL

Tgt Ion: 84 Resp: 3560

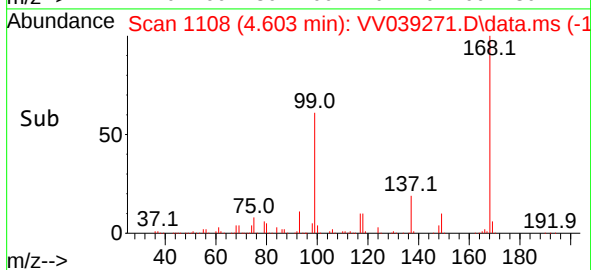
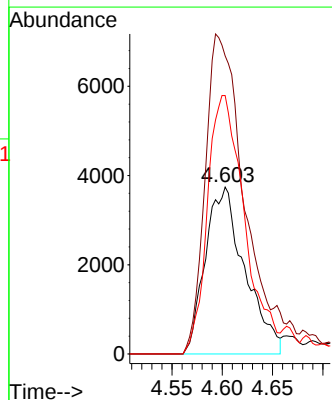
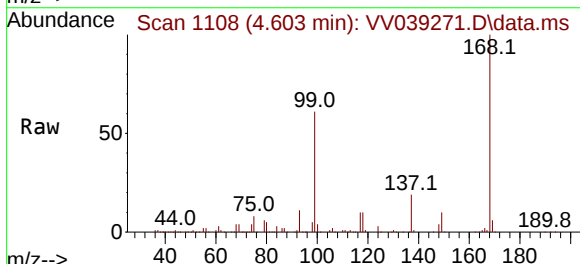
Ion	Ratio	Lower	Upper
84	100		
49	131.5	102.8	154.2
51	37.5	31.9	47.9
86	66.3	51.2	76.8

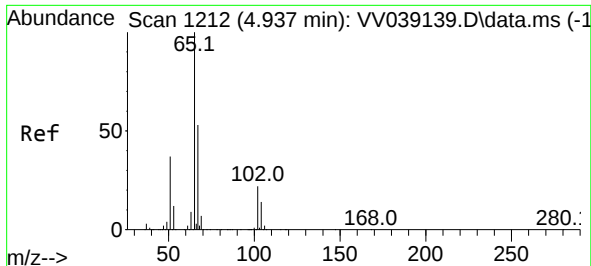


#31
Cyclohexane
Concen: 0.831 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.022 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion: 56 Resp: 10230

Ion	Ratio	Lower	Upper
56	100		
69	178.7	26.2	39.2#
84	154.9	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 51.404 ug/l

RT: 4.940 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039271.D

Acq: 06 Oct 2025 14:19

Instrument :

MSVOA_V

ClientSampleId :

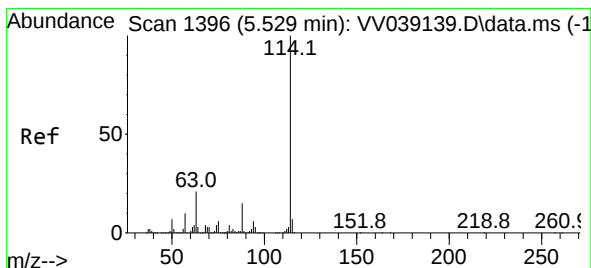
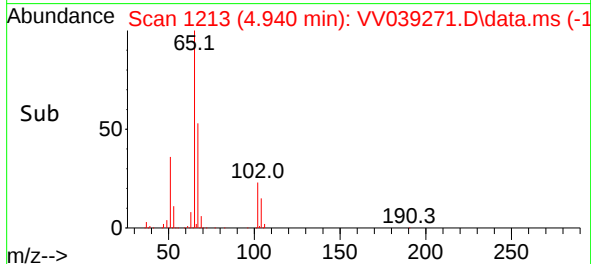
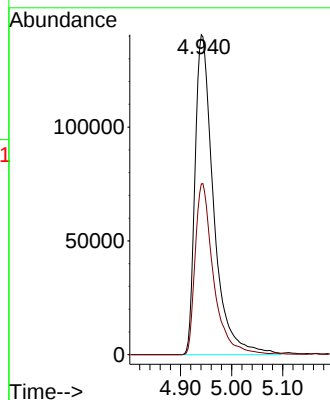
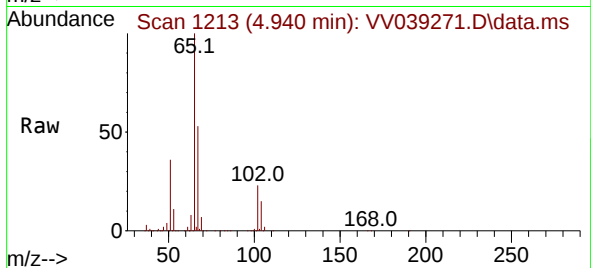
MW6DL

Tgt Ion: 65 Resp: 354921

Ion Ratio Lower Upper

65 100

67 52.8 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039271.D

Acq: 06 Oct 2025 14:19

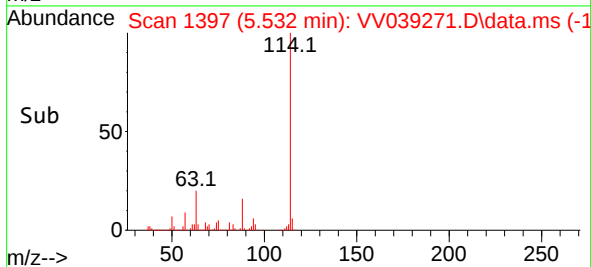
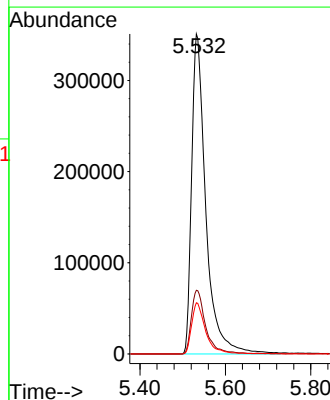
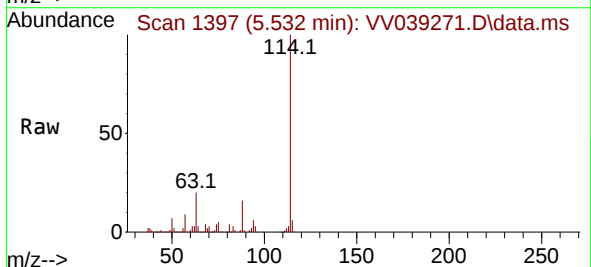
Tgt Ion: 114 Resp: 810750

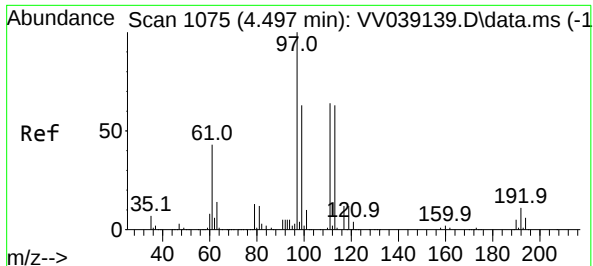
Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 16.0 0.0 30.8





#35

Dibromofluoromethane

Concen: 54.317 ug/l

RT: 4.503 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VV039271.D

Acq: 06 Oct 2025 14:19

Instrument :

MSVOA_V

ClientSampleId :

MW6DL

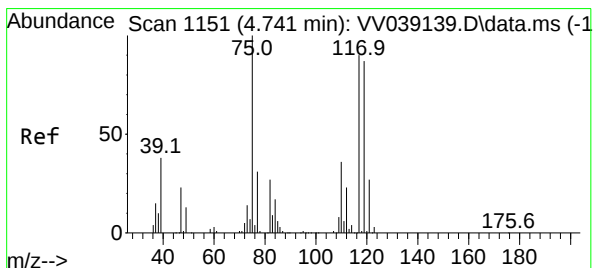
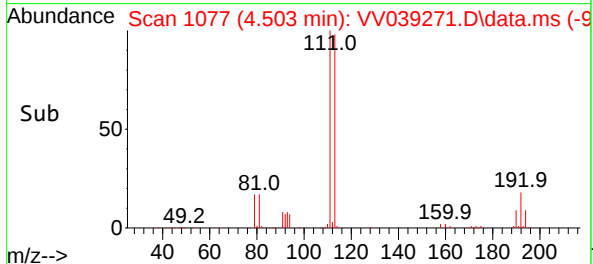
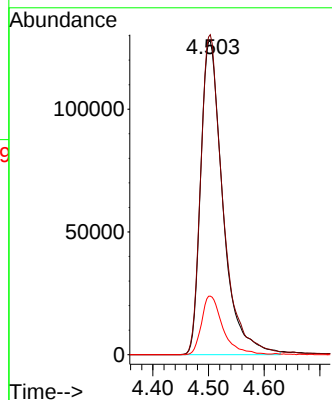
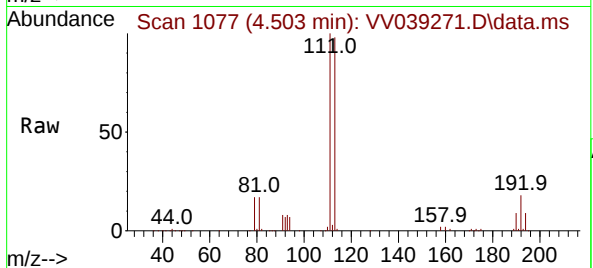
Tgt Ion:113 Resp: 354025

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

192 18.0 13.8 20.8



#36

1,1-Dichloropropene

Concen: 3.991 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. -0.145 min

Lab File: VV039271.D

Acq: 06 Oct 2025 14:19

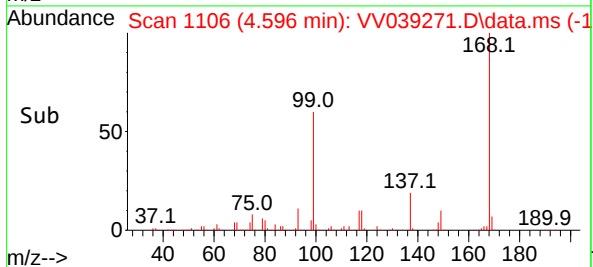
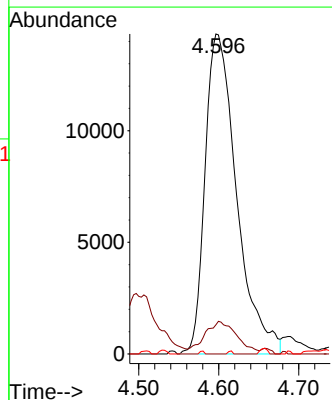
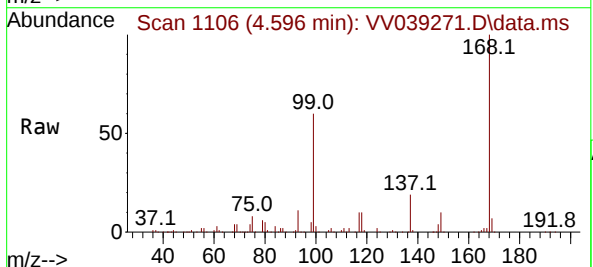
Tgt Ion: 75 Resp: 39333

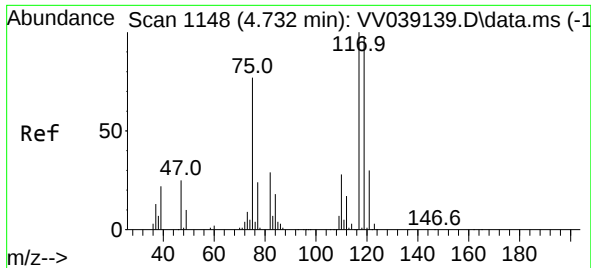
Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.1#

77 0.1 24.8 37.2#

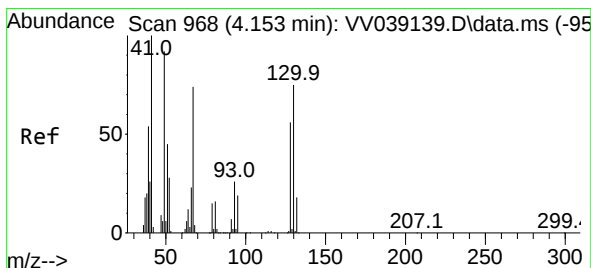
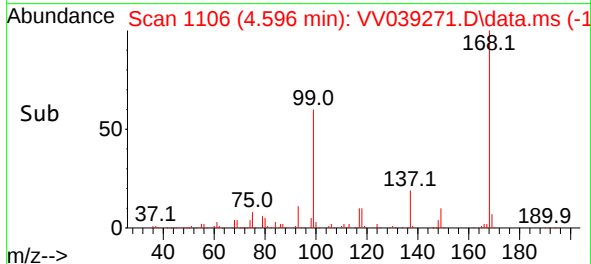
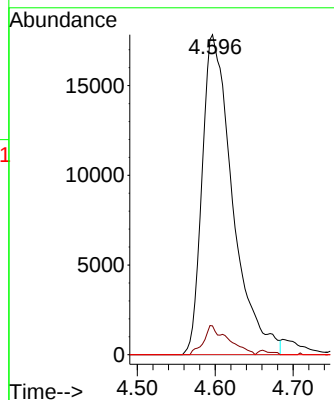
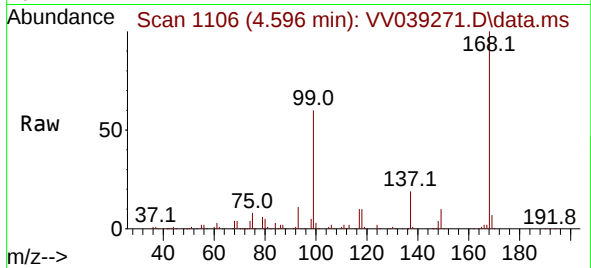




#38
Carbon Tetrachloride
Concen: 4.016 ug/l
RT: 4.596 min Scan# 1148
Delta R.T. -0.136 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

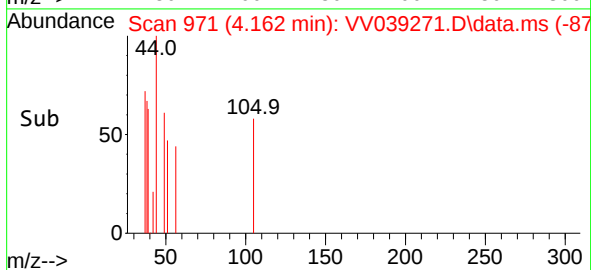
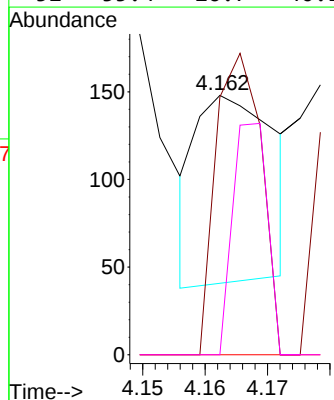
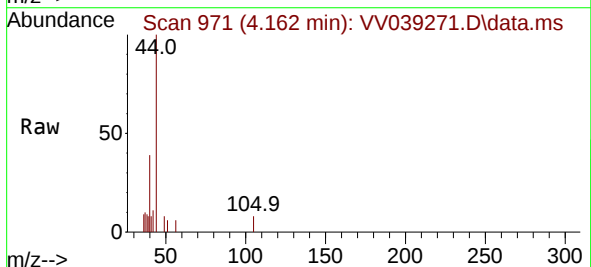
Instrument :
MSVOA_V
ClientSampleId :
MW6DL

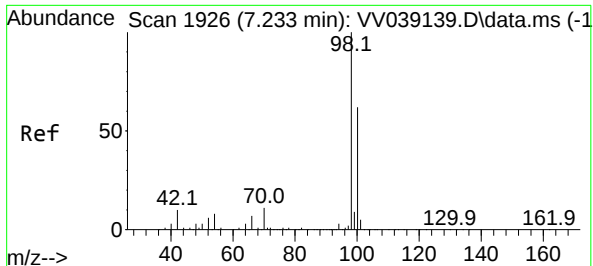
Tgt Ion:117 Resp: 48361
Ion Ratio Lower Upper
117 100
119 9.0 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.927 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.009 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion: 41 Resp: 92
Ion Ratio Lower Upper
41 100
39 94.6 42.2 63.2#
67 0.0 67.9 101.9#
52 55.4 26.7 40.1#





#50

Toluene-d8

Concen: 42.746 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV039271.D

Acq: 06 Oct 2025 14:19

Instrument :

MSVOA_V

ClientSampleId :

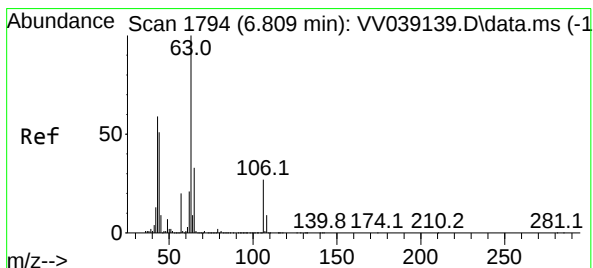
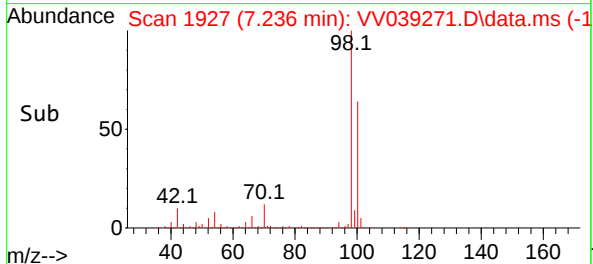
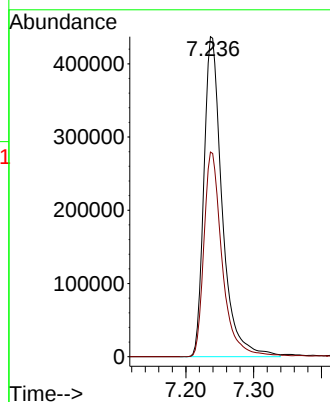
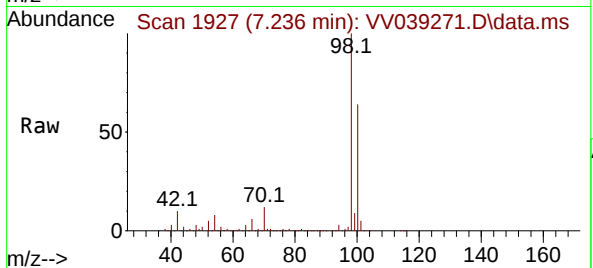
MW6DL

Tgt Ion: 98 Resp: 818283

Ion Ratio Lower Upper

98 100

100 64.0 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.637 ug/l

RT: 6.738 min Scan# 1772

Delta R.T. -0.071 min

Lab File: VV039271.D

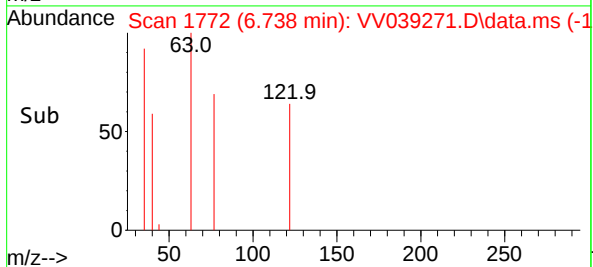
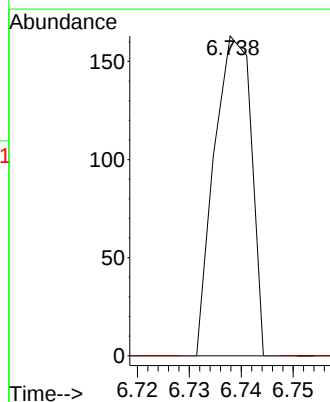
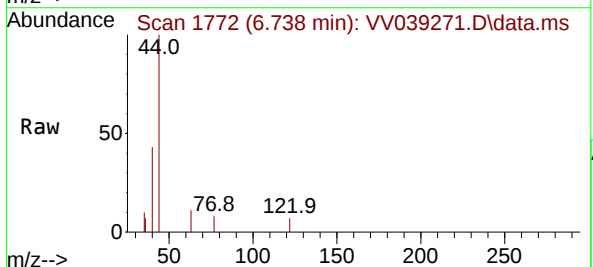
Acq: 06 Oct 2025 14:19

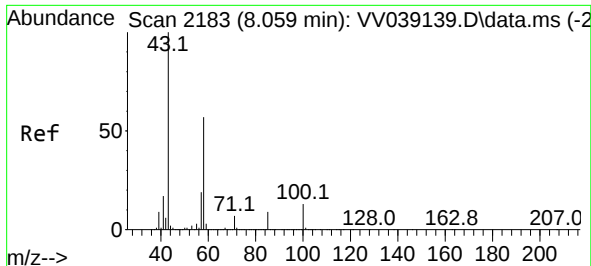
Tgt Ion: 63 Resp: 81

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

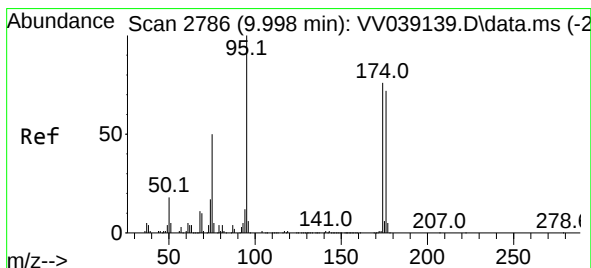
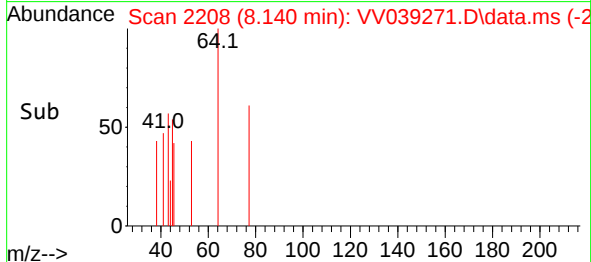
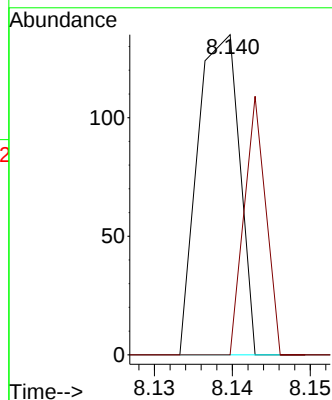
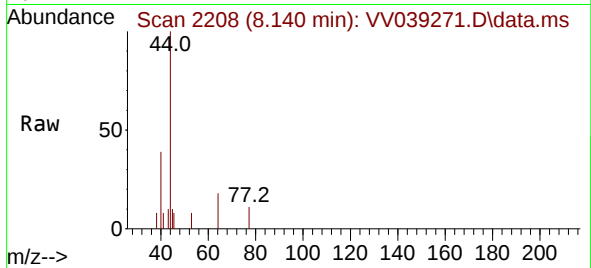




#59
2-Hexanone
Concen: 2.331 ug/l
RT: 8.140 min Scan# 2183
Delta R.T. 0.081 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

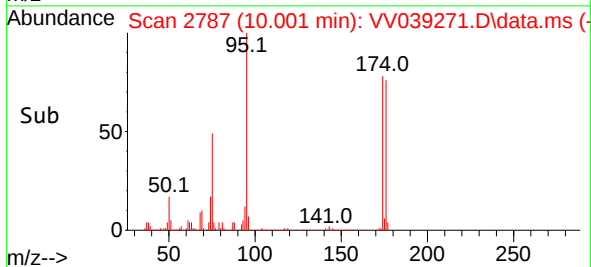
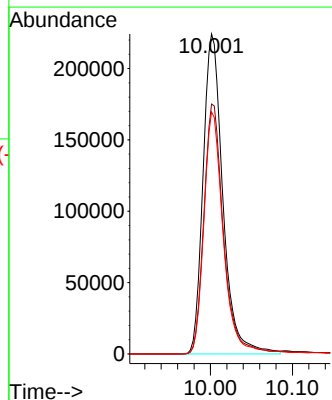
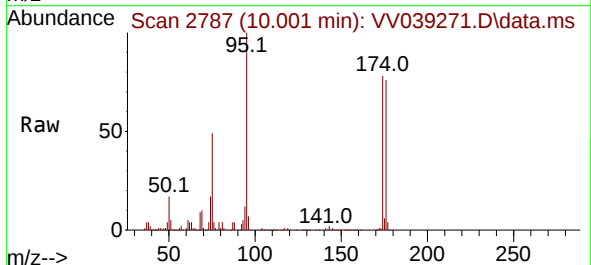
Instrument :
MSVOA_V
ClientSampleId :
MW6DL

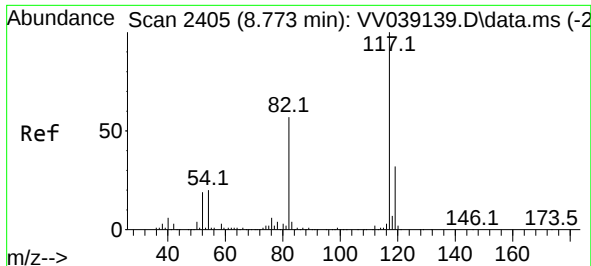
Tgt Ion: 43 Resp: 50
Ion Ratio Lower Upper
43 100
58 42.0 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 47.720 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion: 95 Resp: 376058
Ion Ratio Lower Upper
95 100
174 77.8 0.0 150.4
176 74.1 0.0 144.2

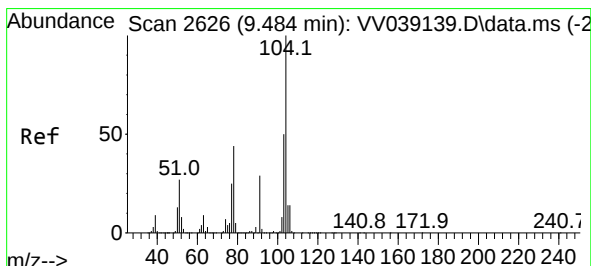
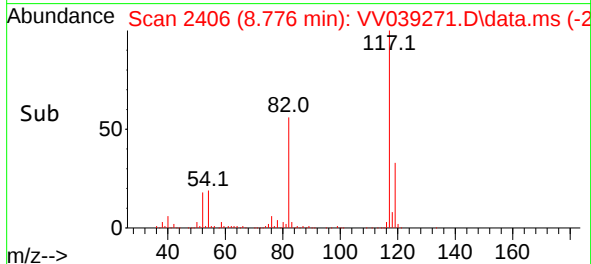
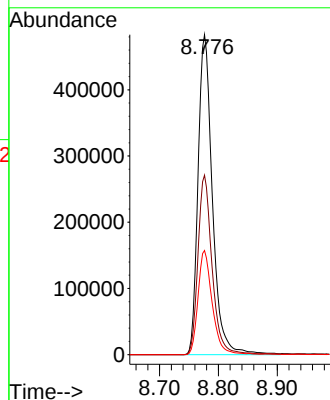
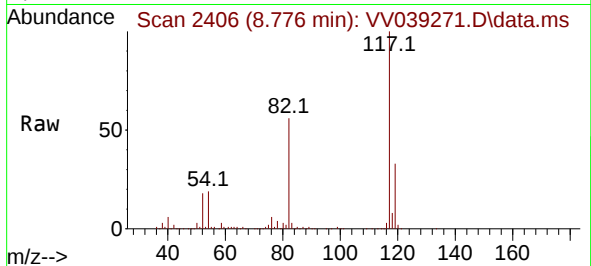




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

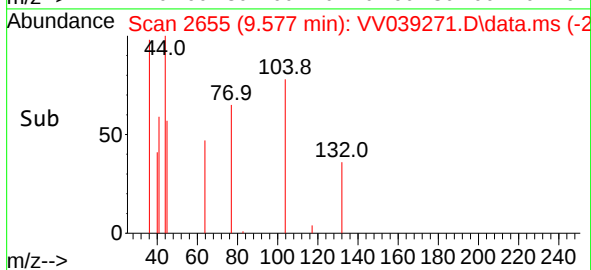
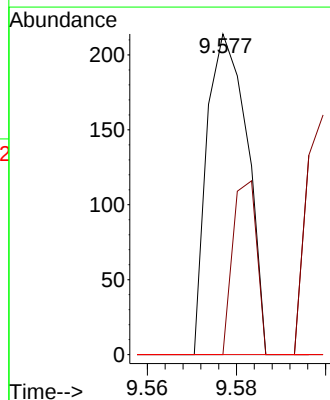
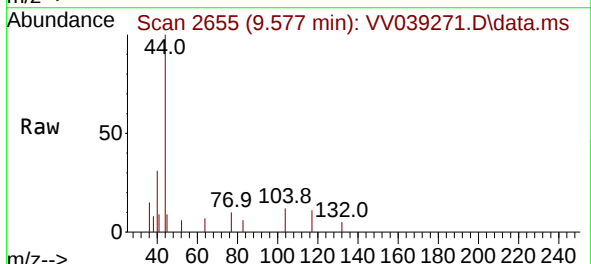
Instrument :
MSVOA_V
ClientSampleId :
MW6DL

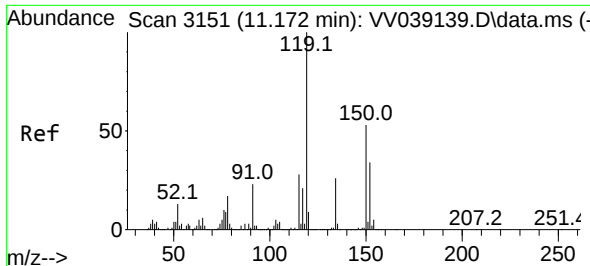
Tgt Ion:117 Resp: 821368
Ion Ratio Lower Upper
117 100
82 56.1 45.4 68.2
119 32.6 25.6 38.4



#70
Styrene
Concen: 1.567 ug/l
RT: 9.577 min Scan# 2655
Delta R.T. 0.093 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion:104 Resp: 134
Ion Ratio Lower Upper
104 100
78 32.1 39.8 59.6#
103 0.0 43.4 65.2#

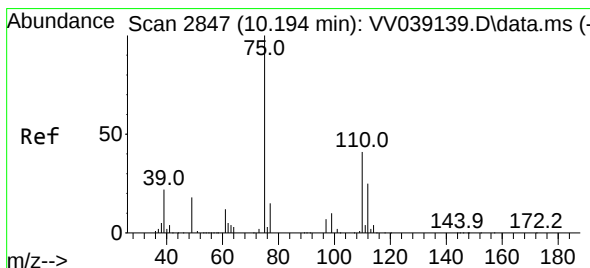
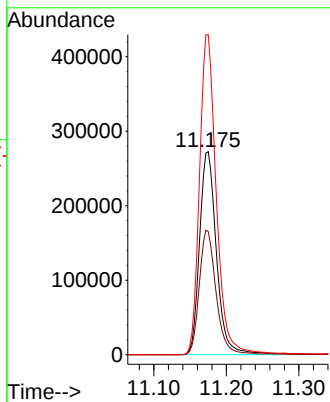
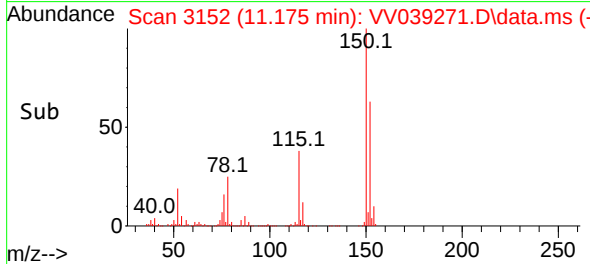
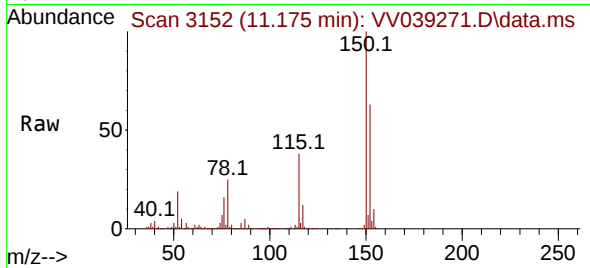




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039271.D
 Acq: 06 Oct 2025 14:19

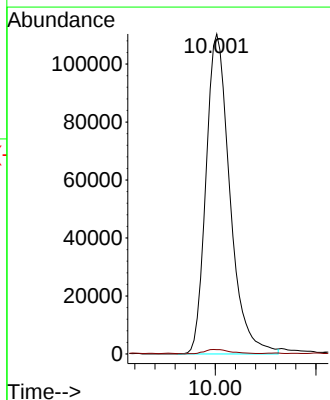
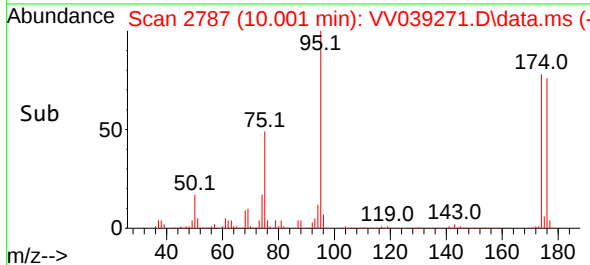
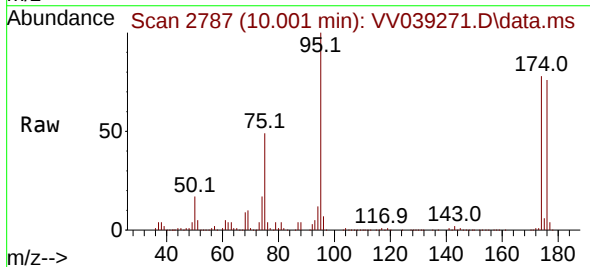
Instrument :
 MSVOA_V
 ClientSampleId :
 MW6DL

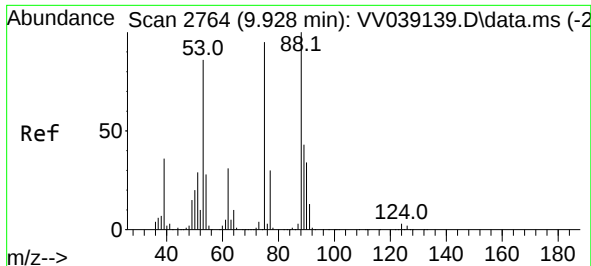
Tgt Ion:152 Resp: 441845
 Ion Ratio Lower Upper
 152 100
 115 60.8 44.8 134.4
 150 156.9 0.0 353.8



#76
 1,2,3-Trichloropropane
 Concen: 18.124 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039271.D
 Acq: 06 Oct 2025 14:19

Tgt Ion: 75 Resp: 182326
 Ion Ratio Lower Upper
 75 100
 77 1.7 11.3 33.8#

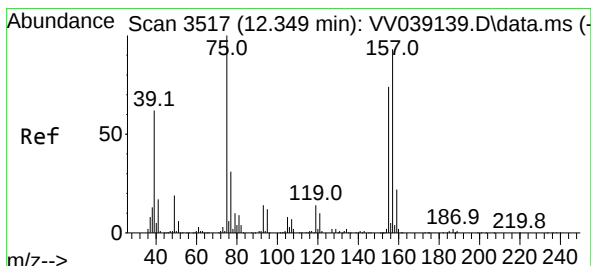
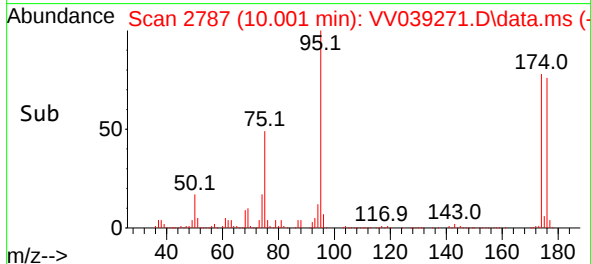
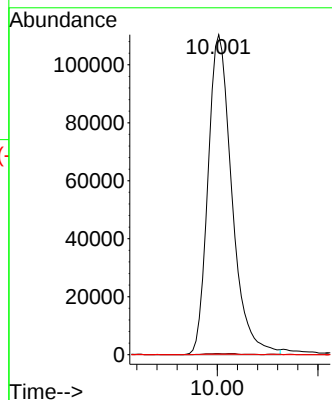
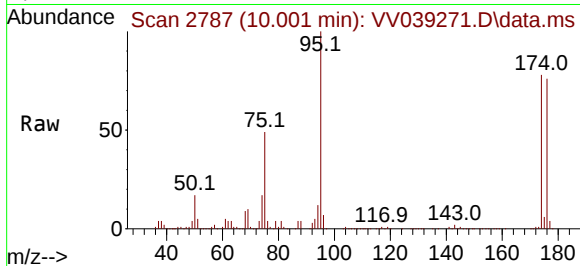




#81
trans-1,4-Dichloro-2-butene
Concen: 43.509 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Instrument :
MSVOA_V
ClientSampleId :
MW6DL

Tgt Ion: 75 Resp: 182326
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039271.D
Acq: 06 Oct 2025 14:19

Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

