

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV039000.D
 Acq On : 21 Aug 2025 22:33
 Operator : SY/MD
 Sample : Q2924-07
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:40:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 04:15:04 2025
 Response via : Initial Calibration

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

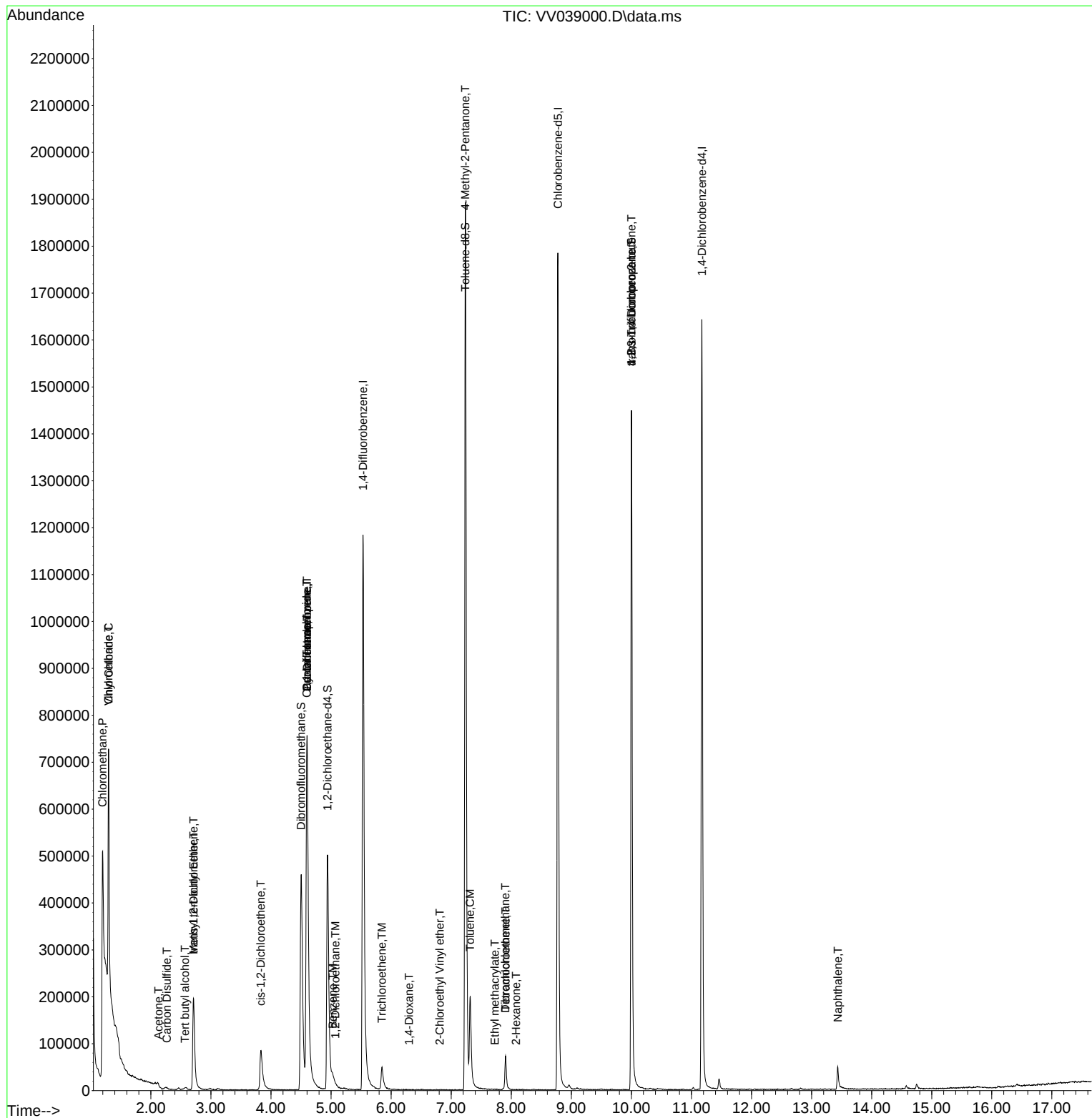
Internal Standards						
1) Pentafluorobenzene	4.600	168	671823	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1168529	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1007735	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	449215	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	458962	48.687	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	97.380%
35) Dibromofluoromethane	4.503	113	391693	44.697	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	89.400%
50) Toluene-d8	7.236	98	1344230	43.989	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	87.980%#
62) 4-Bromofluorobenzene	10.001	95	494467	44.232	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	88.460%
Target Compounds						
					Qvalue	
3) Chloromethane	1.195	50	13599	1.311	ug/l #	42
4) Vinyl Chloride	1.297	62	407911	37.266	ug/l #	75
6) Chloroethane	1.294	64	475998	85.340	ug/l #	44
11) Tert butyl alcohol	2.567	59	704	0.552	ug/l #	73
13) Acrolein	2.024	56	42	Below Cal	#	1
16) Acetone	2.127	43	6606	1.746	ug/l	88
17) Carbon Disulfide	2.268	76	5998	0.283	ug/l #	90
19) Methyl tert-butyl Ether	2.712	73	120328	5.337	ug/l	96
21) trans-1,2-Dichloroethene	2.709	96	46491	5.854	ug/l	94
27) cis-1,2-Dichloroethene	3.831	96	59509	6.208	ug/l	91
28) Bromochloromethane	4.101	49	43	Below Cal	#	3
31) Cyclohexane	4.600	56	13978	1.058	ug/l #	5
36) 1,1-Dichloropropene	4.600	75	53558	4.706	ug/l #	45
38) Carbon Tetrachloride	4.596	117	69009	4.528	ug/l #	16
40) Benzene	5.027	78	23025	0.646	ug/l #	90
42) 1,2-Dichloroethane	5.072	62	5752	0.441	ug/l	96
44) Trichloroethene	5.847	130	21642	2.238	ug/l	88
49) 1,4-Dioxane	6.297	88	42	0.330	ug/l #	34
51) 4-Methyl-2-Pentanone	7.233	43	5396	0.484	ug/l #	1
52) Toluene	7.316	92	97882	4.336	ug/l	98
56) Ethyl methacrylate	7.728	69	20	2.317	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.808	63	22	4.988	ug/l #	43
59) 2-Hexanone	8.082	43	41	10.901	ug/l	86
60) Dibromochloromethane	7.902	129	15776	1.327	ug/l #	11
64) Tetrachloroethene	7.905	164	16022	2.137	ug/l	96
76) 1,2,3-Trichloropropane	10.001	75	242240	29.072	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	242240	66.747	ug/l #	14
95) Naphthalene	13.435	128	46700	1.701	ug/l	99

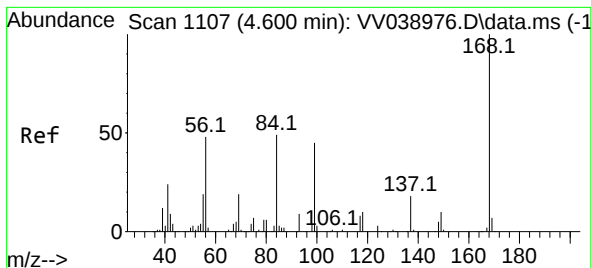
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 22 04:15:04 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Instrument :

MSVOA_V

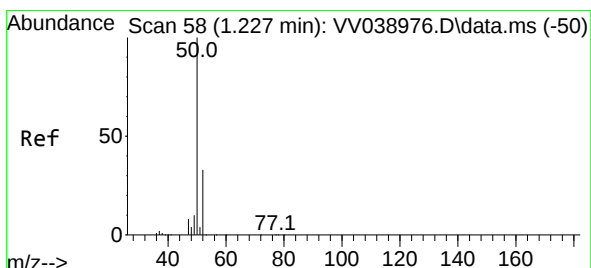
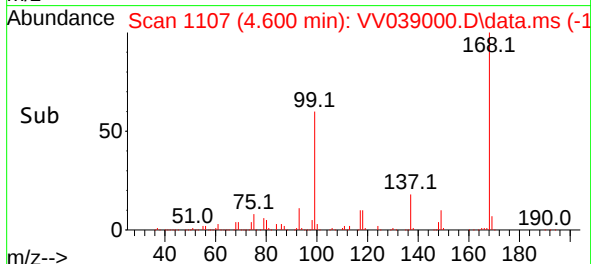
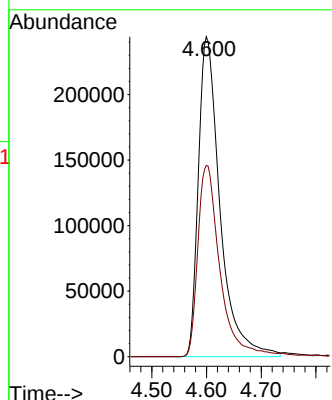
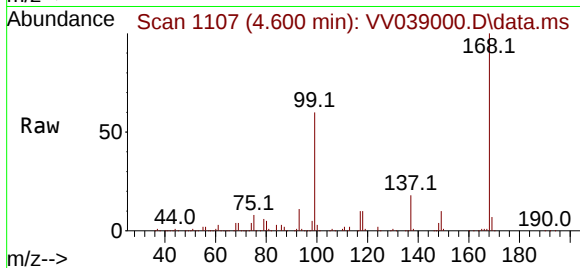
ClientSampleId :

Tgt Ion:168 Resp: 671823

Ion Ratio Lower Upper

168 100

99 59.8 47.0 70.6



#3

Chloromethane

Concen: 1.311 ug/l

RT: 1.195 min Scan# 48

Delta R.T. -0.032 min

Lab File: VV039000.D

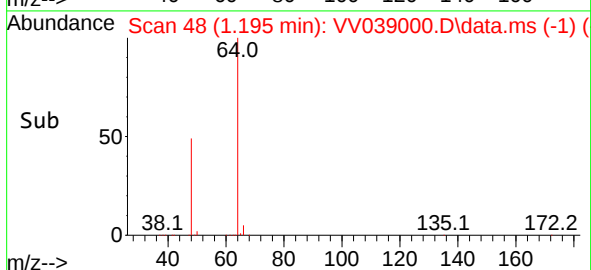
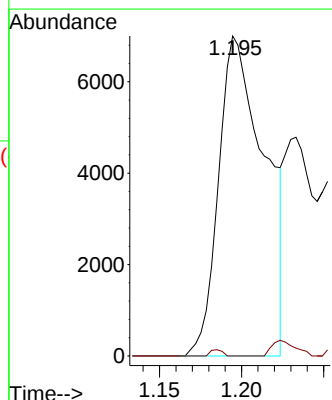
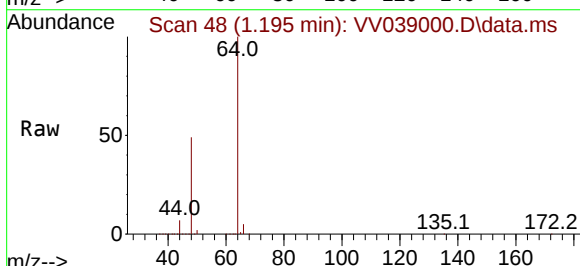
Acq: 21 Aug 2025 22:33

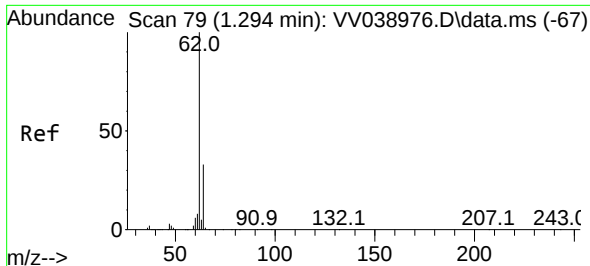
Tgt Ion: 50 Resp: 13599

Ion Ratio Lower Upper

50 100

52 0.0 26.2 39.2#

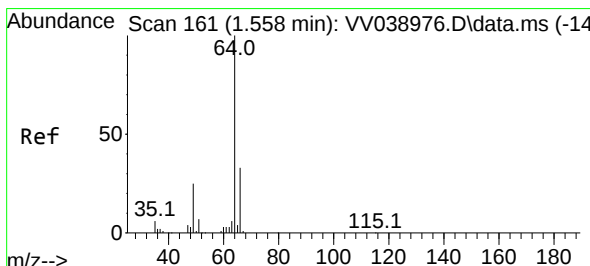
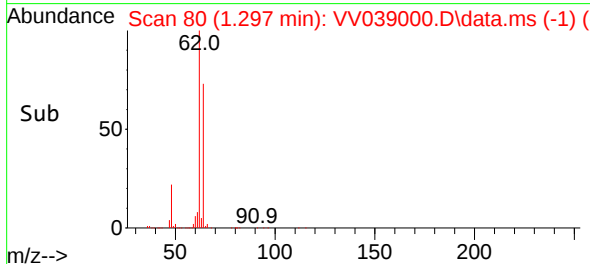
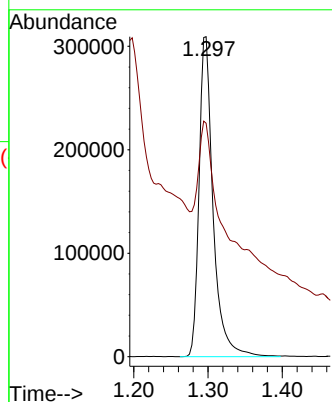
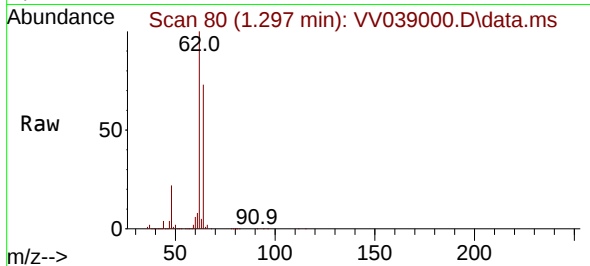




#4
 Vinyl Chloride
 Concen: 37.266 ug/l
 RT: 1.297 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VV039000.D
 Acq: 21 Aug 2025 22:33

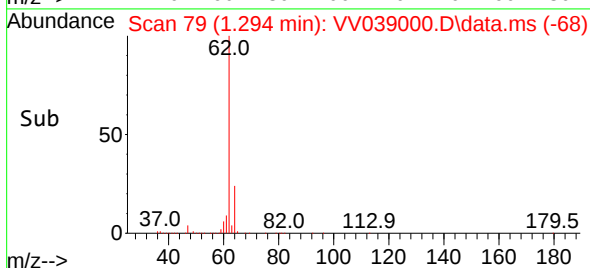
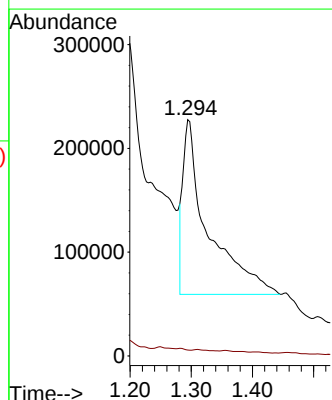
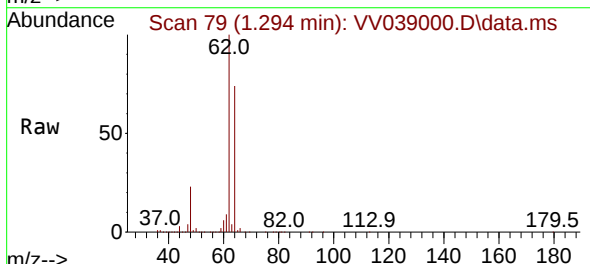
Instrument :
 MSVOA_V
 ClientSampleId :

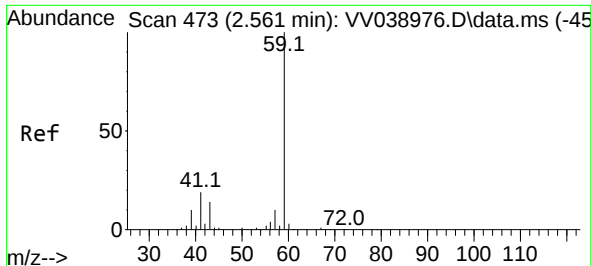
Tgt Ion: 62 Resp: 407911
 Ion Ratio Lower Upper
 62 100
 64 47.3 26.4 39.6#



#6
 Chloroethane
 Concen: 85.340 ug/l
 RT: 1.294 min Scan# 79
 Delta R.T. -0.264 min
 Lab File: VV039000.D
 Acq: 21 Aug 2025 22:33

Tgt Ion: 64 Resp: 475998
 Ion Ratio Lower Upper
 64 100
 66 1.6 26.8 40.2#

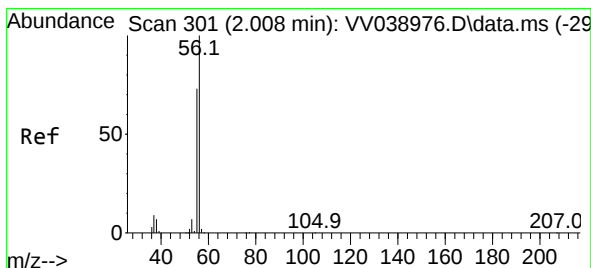
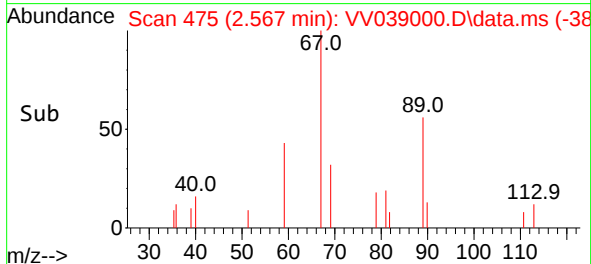
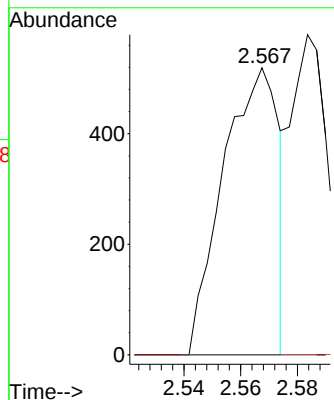
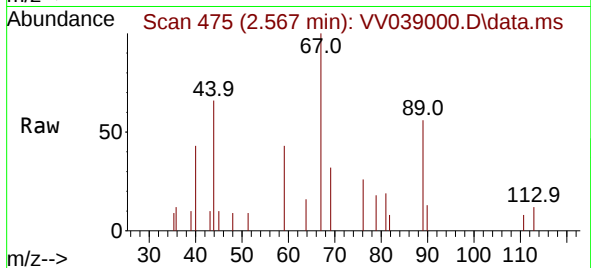




#11
Tert butyl alcohol
Concen: 0.552 ug/l
RT: 2.567 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

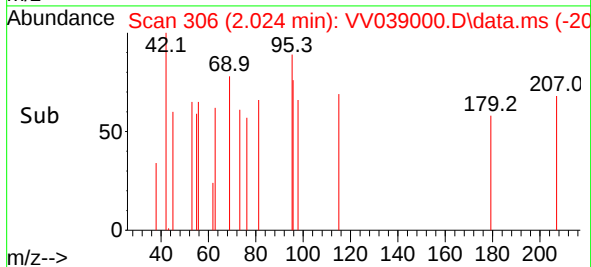
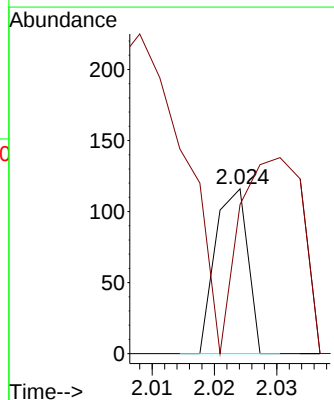
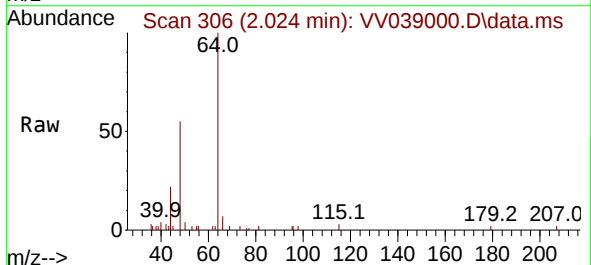
Instrument :
MSVOA_V
ClientSampleId :

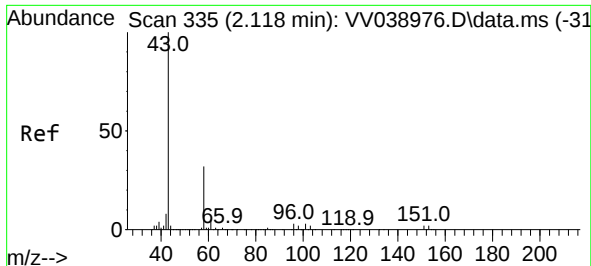
Tgt Ion: 59 Resp: 704
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.024 min Scan# 306
Delta R.T. 0.016 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 228.6 58.8 88.2#

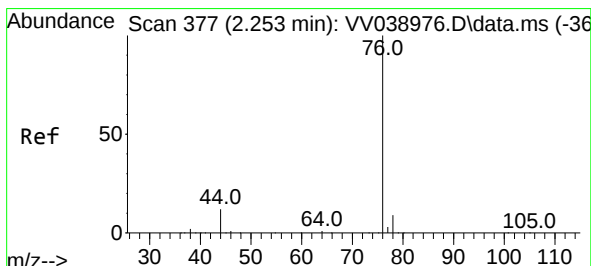
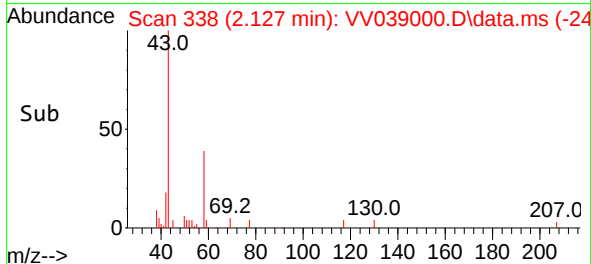
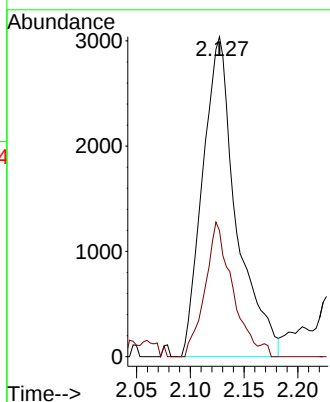
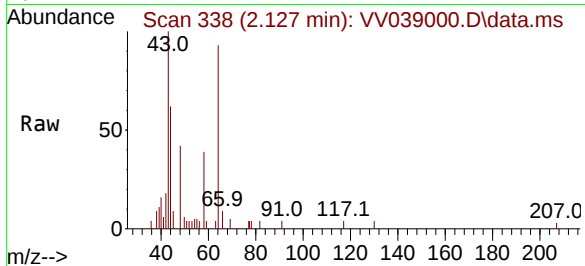




#16
Acetone
Concen: 1.746 ug/l
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

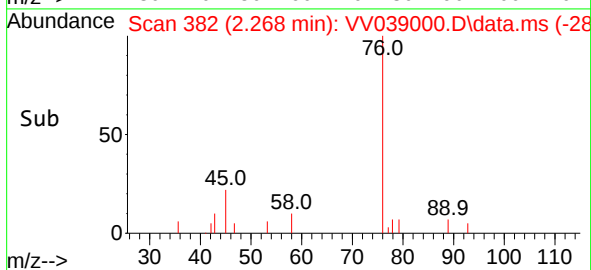
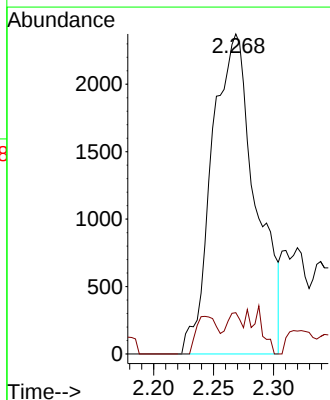
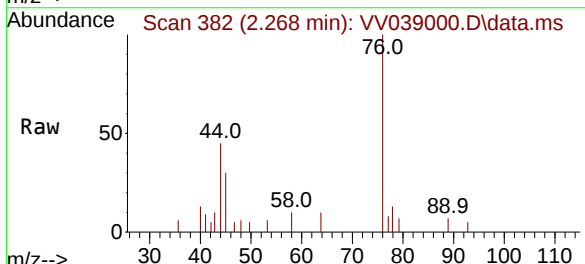
Instrument :
MSVOA_V
ClientSampleId :

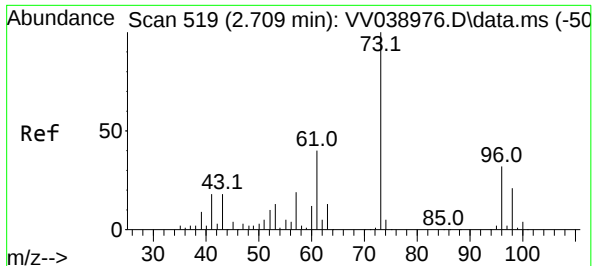
Tgt Ion: 43 Resp: 6606
Ion Ratio Lower Upper
43 100
58 39.4 26.3 39.5



#17
Carbon Disulfide
Concen: 0.283 ug/l
RT: 2.268 min Scan# 382
Delta R.T. 0.016 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

Tgt Ion: 76 Resp: 5998
Ion Ratio Lower Upper
76 100
78 12.9 7.3 10.9#

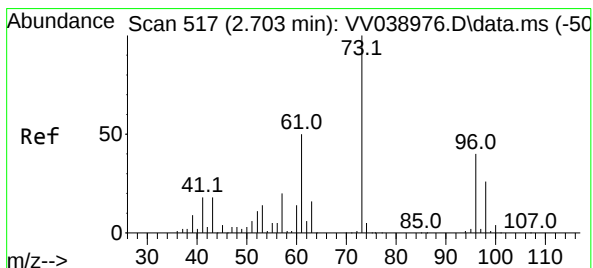
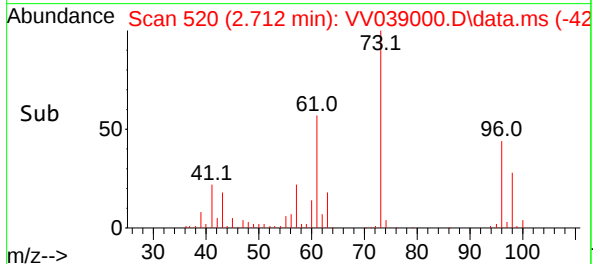
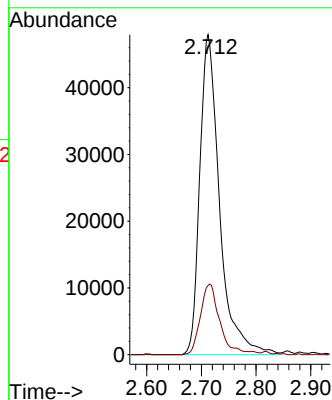
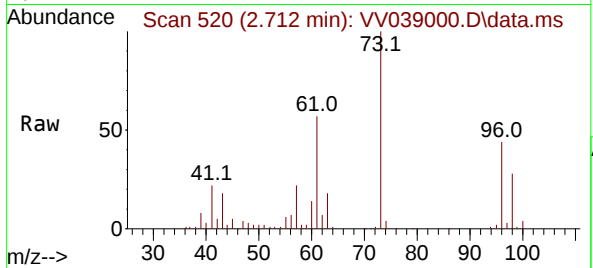




#19
Methyl tert-butyl Ether
Concen: 5.337 ug/l
RT: 2.712 min Scan# 519
Delta R.T. 0.003 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

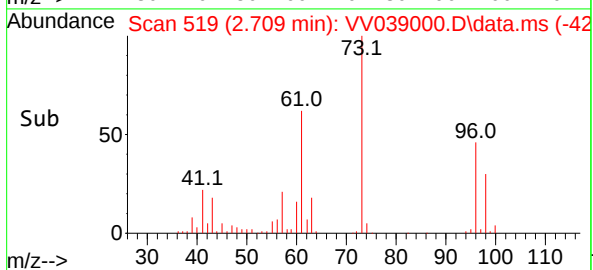
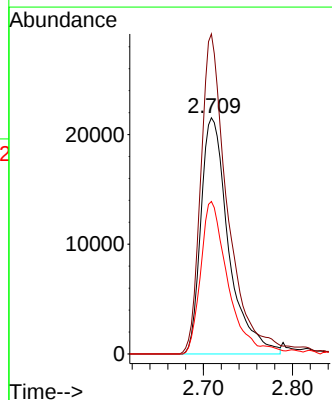
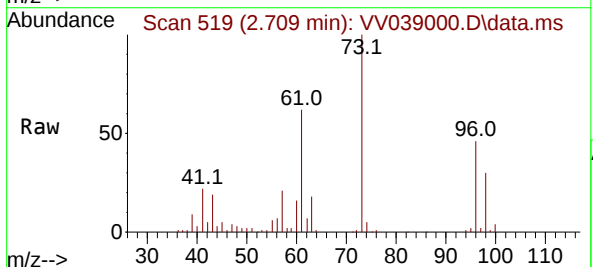
Instrument :
MSVOA_V
ClientSampleId :

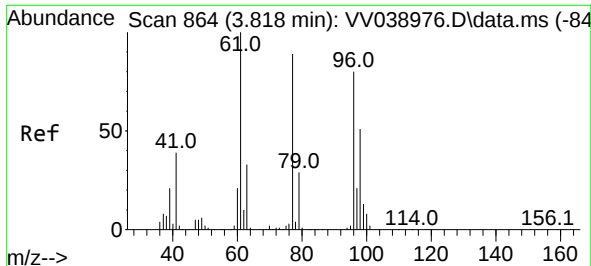
Tgt Ion: 73 Resp: 120328
Ion Ratio Lower Upper
73 100
57 21.7 15.7 23.5



#21
trans-1,2-Dichloroethene
Concen: 5.854 ug/l
RT: 2.709 min Scan# 519
Delta R.T. 0.006 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

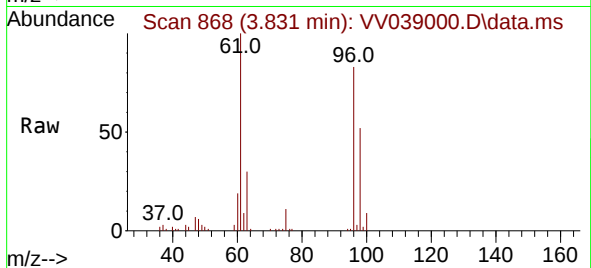
Tgt Ion: 96 Resp: 46491
Ion Ratio Lower Upper
96 100
61 135.5 100.6 151.0
98 64.6 51.5 77.3



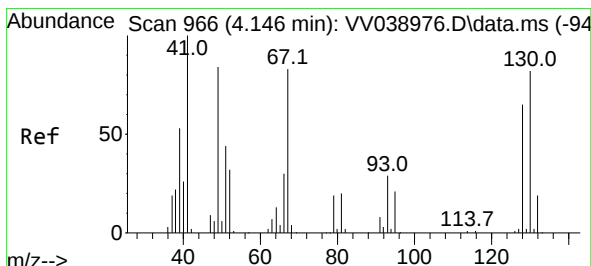
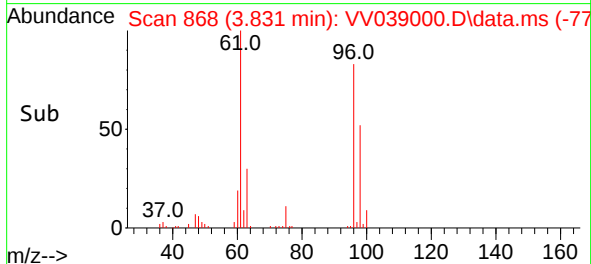
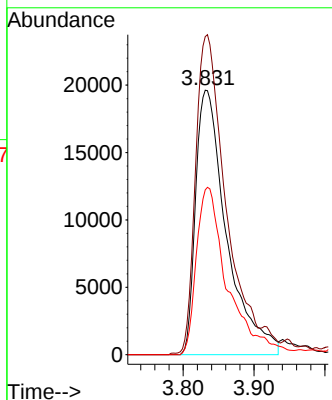


#27
 cis-1,2-Dichloroethene
 Concen: 6.208 ug/l
 RT: 3.831 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VV039000.D
 Acq: 21 Aug 2025 22:33

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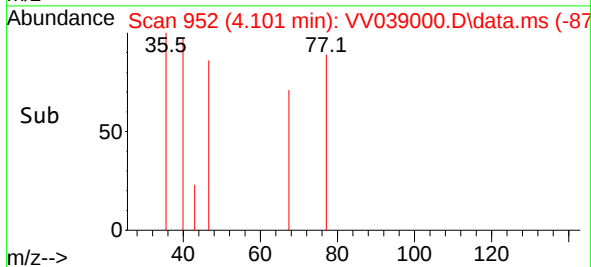
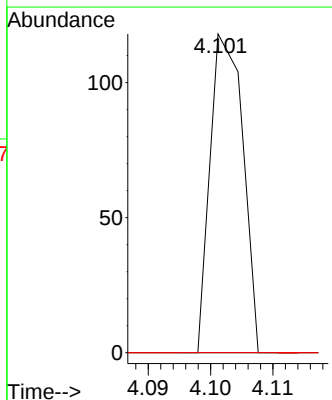
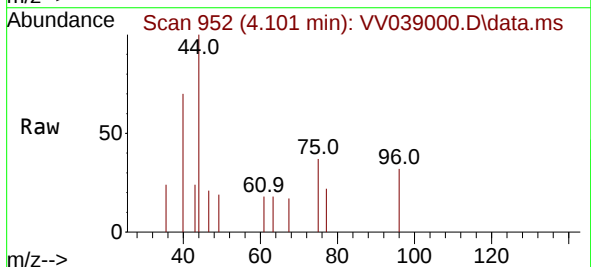


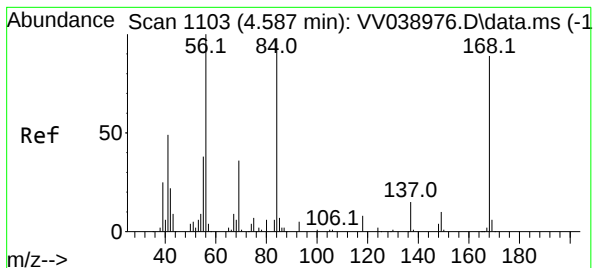
Tgt Ion: 96 Resp: 59509
 Ion Ratio Lower Upper
 96 100
 61 117.3 0.0 264.4
 98 63.8 0.0 131.8



#28
 Bromochloromethane
 Concen: Below Cal
 RT: 4.101 min Scan# 952
 Delta R.T. -0.045 min
 Lab File: VV039000.D
 Acq: 21 Aug 2025 22:33

Tgt Ion: 49 Resp: 43
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.2
 130 0.0 78.2 117.2#





#31

Cyclohexane

Concen: 1.058 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. 0.013 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Instrument :

MSVOA_V

ClientSampleId :

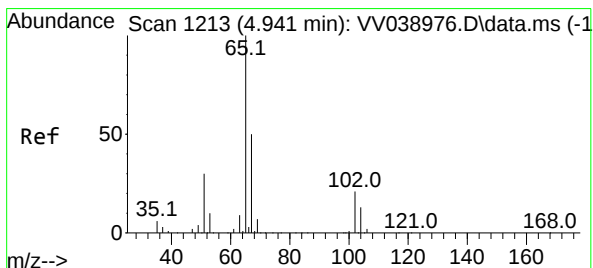
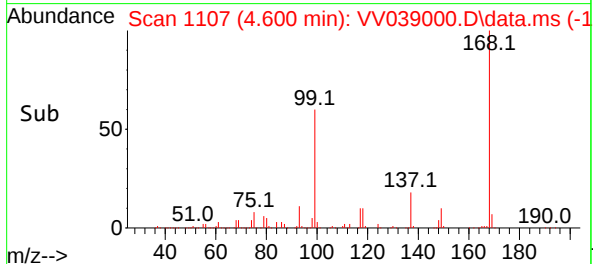
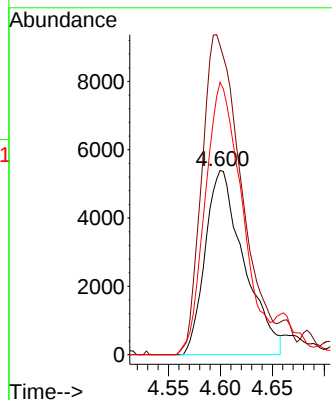
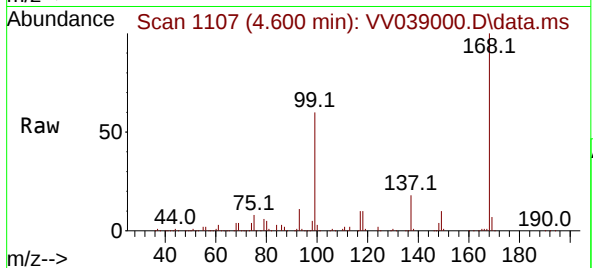
Tgt Ion: 56 Resp: 13978

Ion Ratio Lower Upper

56 100

69 166.0 28.6 42.8#

84 145.9 78.1 117.1#



#33

1,2-Dichloroethane-d4

Concen: 48.687 ug/l

RT: 4.940 min Scan# 1213

Delta R.T. -0.000 min

Lab File: VV039000.D

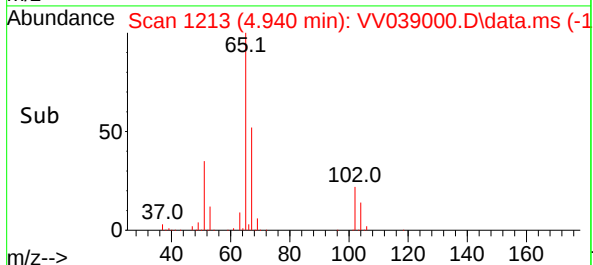
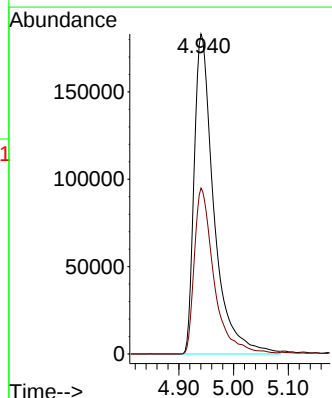
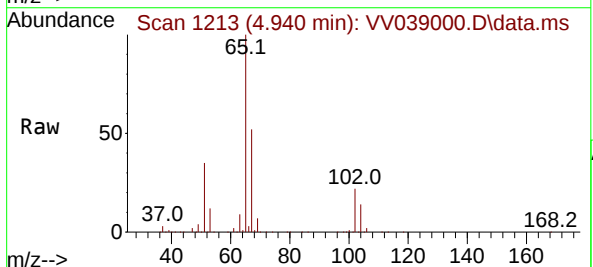
Acq: 21 Aug 2025 22:33

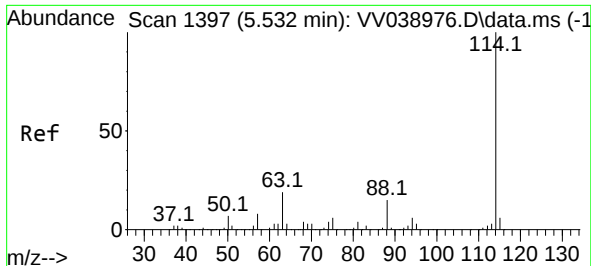
Tgt Ion: 65 Resp: 458962

Ion Ratio Lower Upper

65 100

67 51.7 0.0 100.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Instrument :

MSVOA_V

ClientSampleId :

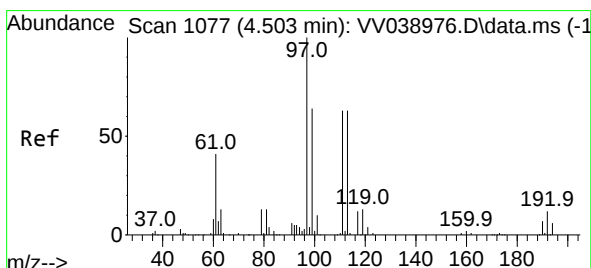
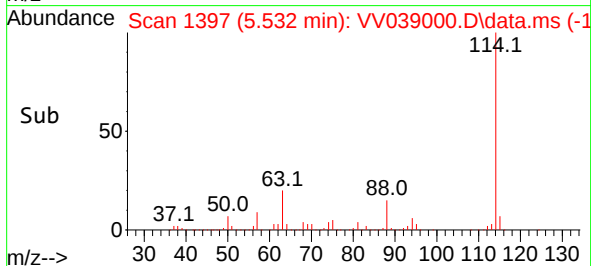
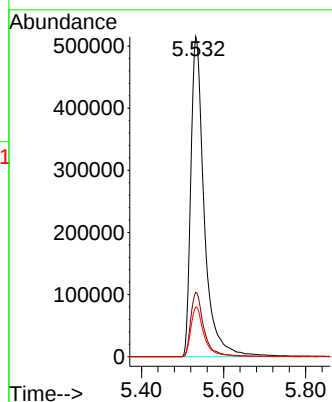
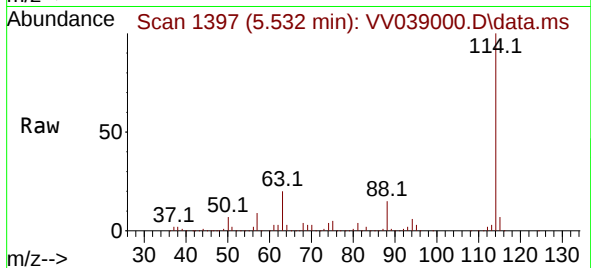
Tgt Ion:114 Resp: 1168529

Ion Ratio Lower Upper

114 100

63 20.1 0.0 37.4

88 15.4 0.0 30.4



#35

Dibromofluoromethane

Concen: 44.697 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. -0.000 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

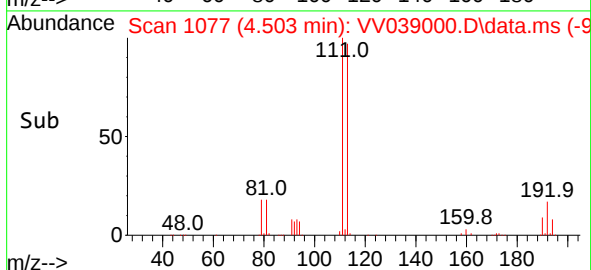
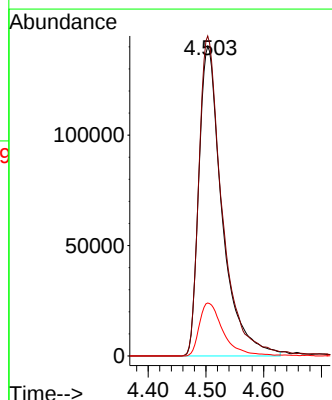
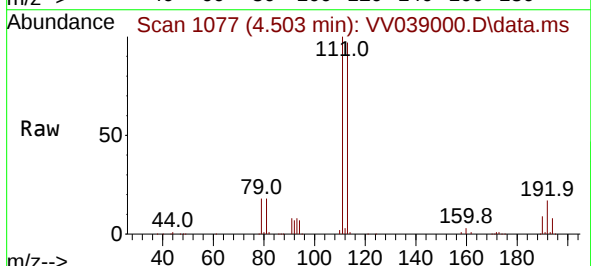
Tgt Ion:113 Resp: 391693

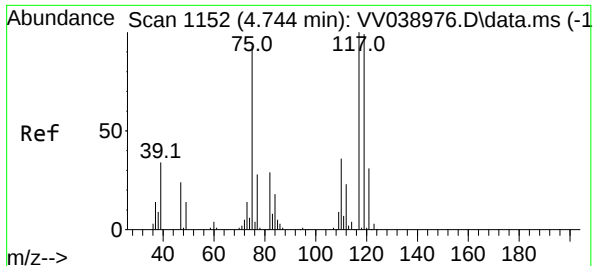
Ion Ratio Lower Upper

113 100

111 102.6 81.3 121.9

192 17.5 15.4 23.0





#36

1,1-Dichloropropene

Concen: 4.706 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.145 min

Lab File: VV039000.D

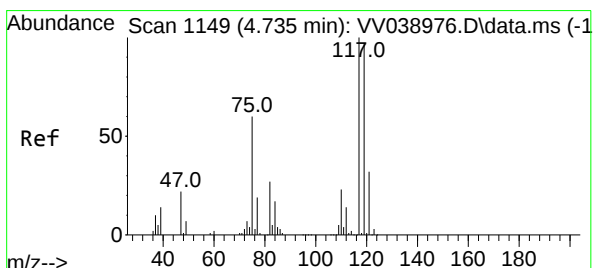
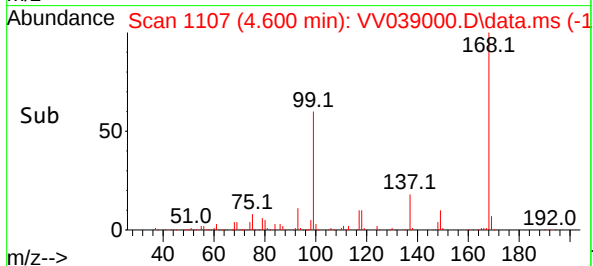
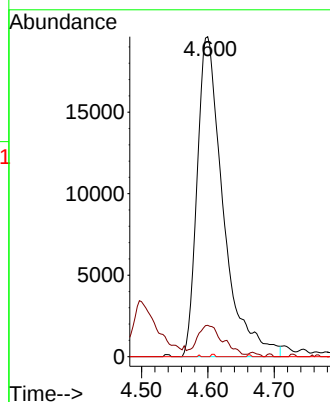
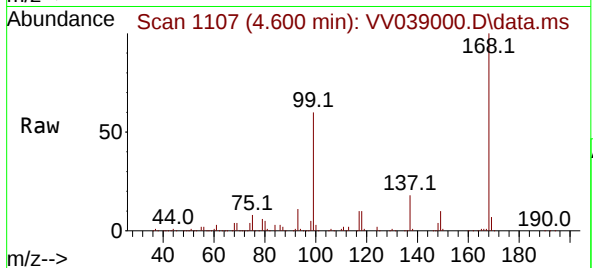
Acq: 21 Aug 2025 22:33

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	53558
Ion	Ratio	Lower	Upper
75	100		
110	5.3	19.6	58.7#
77	0.1	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 4.528 ug/l

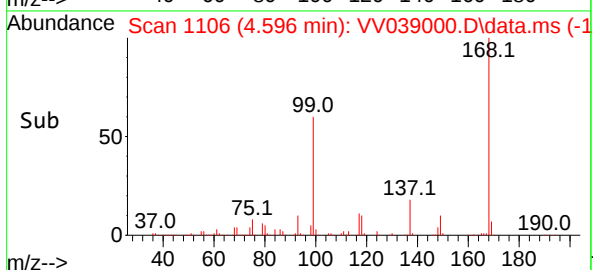
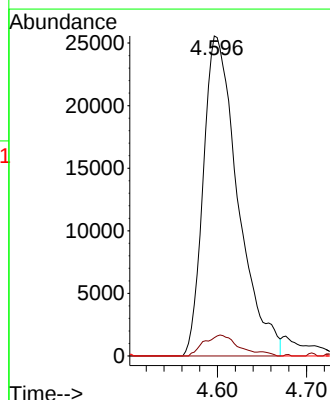
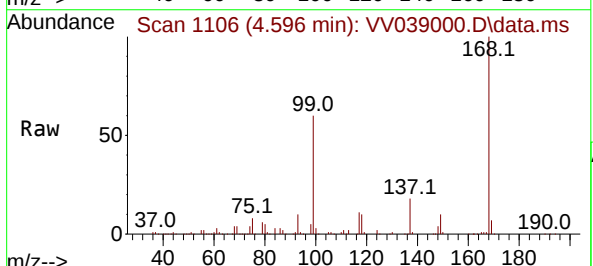
RT: 4.596 min Scan# 1106

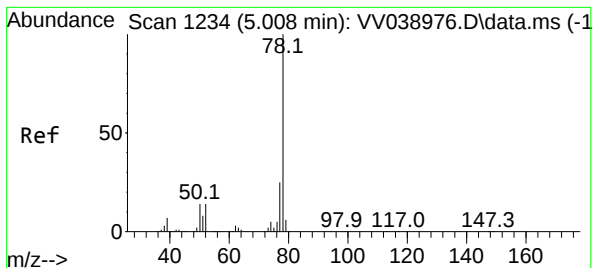
Delta R.T. -0.139 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Tgt Ion:	117	Resp:	69009
Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.1	115.7#
121	0.0	25.4	38.2#





#40

Benzene

Concen: 0.646 ug/l

RT: 5.027 min Scan# 11

Delta R.T. 0.019 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Instrument :

MSVOA_V

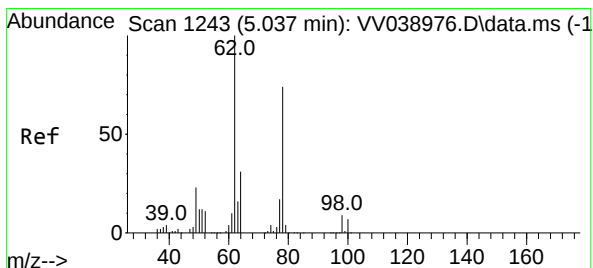
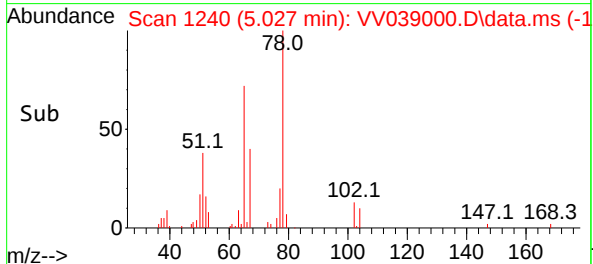
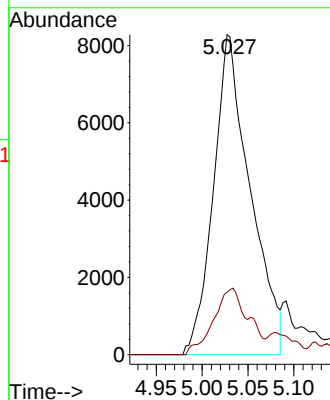
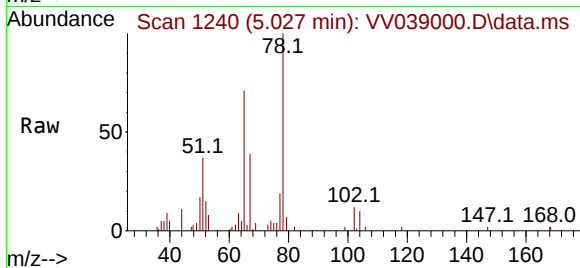
ClientSampleId :

Tgt Ion: 78 Resp: 23025

Ion Ratio Lower Upper

78 100

77 19.5 19.6 29.4#



#42

1,2-Dichloroethane

Concen: 0.441 ug/l

RT: 5.072 min Scan# 1254

Delta R.T. 0.035 min

Lab File: VV039000.D

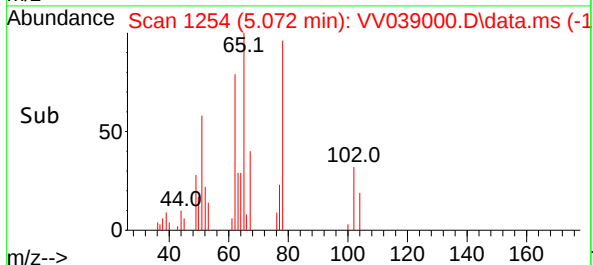
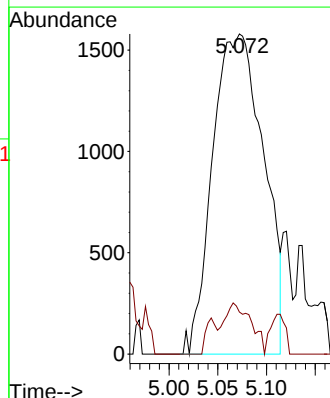
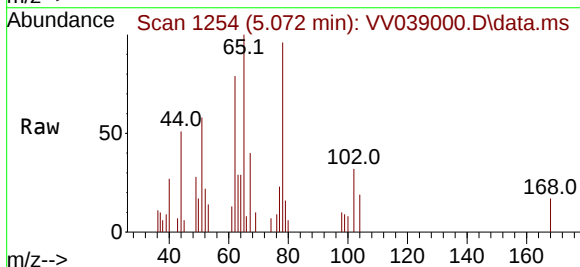
Acq: 21 Aug 2025 22:33

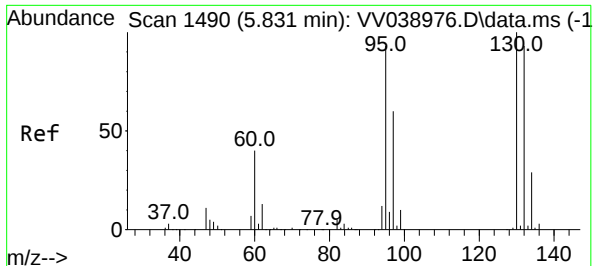
Tgt Ion: 62 Resp: 5752

Ion Ratio Lower Upper

62 100

98 8.3 0.0 19.2

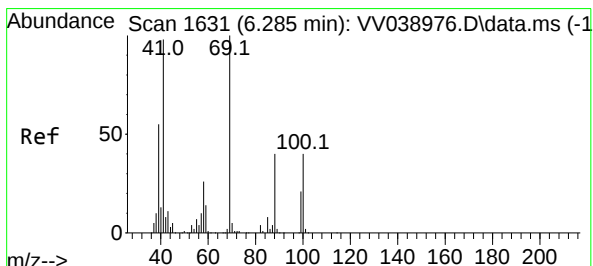
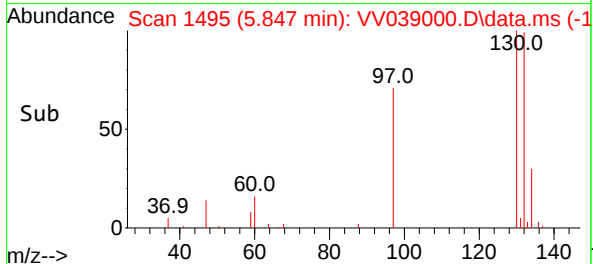
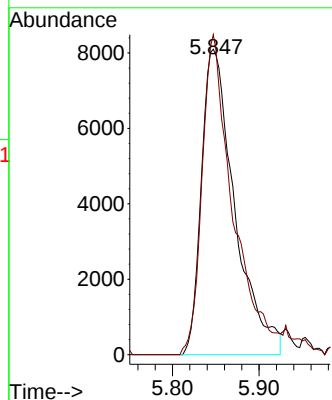
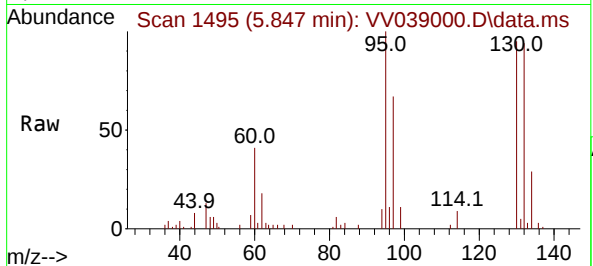




#44
Trichloroethene
Concen: 2.238 ug/l
RT: 5.847 min Scan# 1495
Delta R.T. 0.016 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

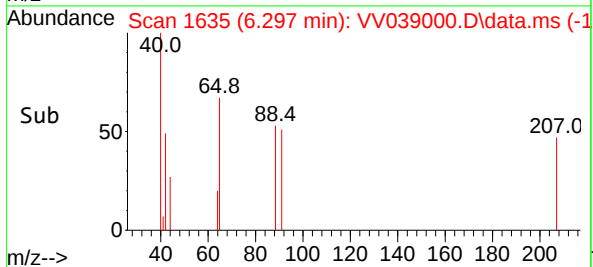
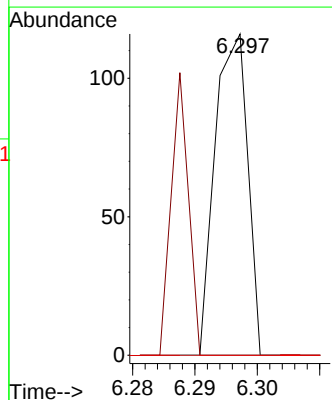
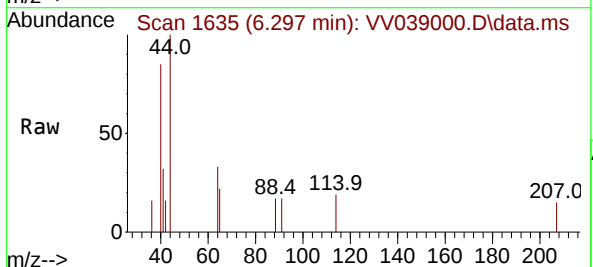
Instrument :
MSVOA_V
ClientSampleId :

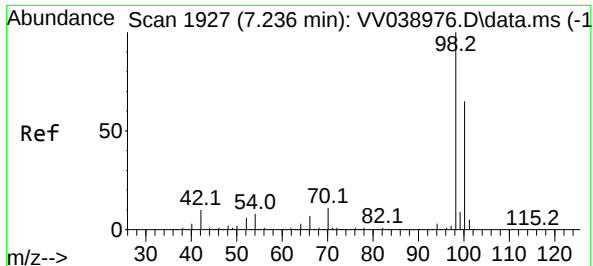
Tgt Ion:130 Resp: 21642
Ion Ratio Lower Upper
130 100
95 104.8 0.0 186.6



#49
1,4-Dioxane
Concen: 0.330 ug/l
RT: 6.297 min Scan# 1635
Delta R.T. 0.013 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 47.6 24.6 36.8#
58 0.0 51.8 77.6#

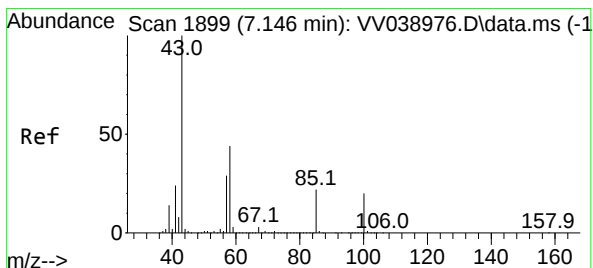
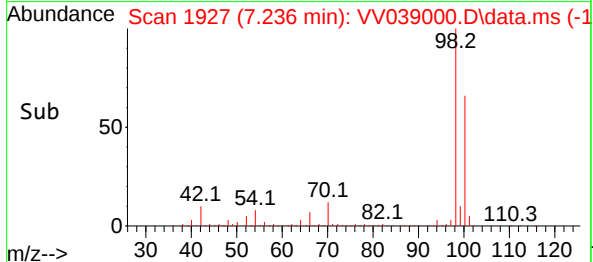
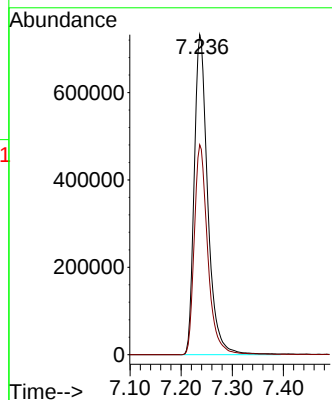
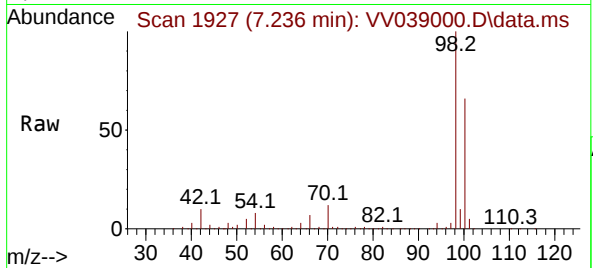




#50
Toluene-d8
Concen: 43.989 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. -0.000 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

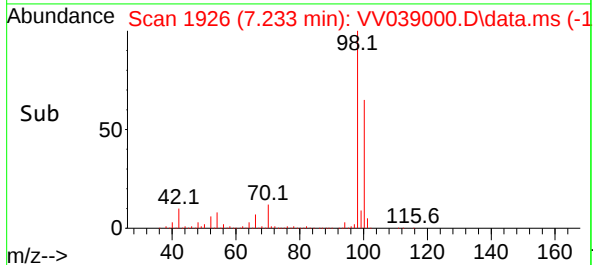
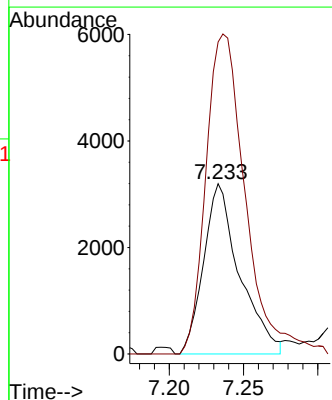
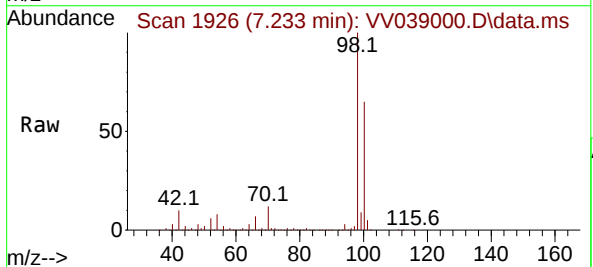
Instrument :
MSVOA_V
ClientSampleId :

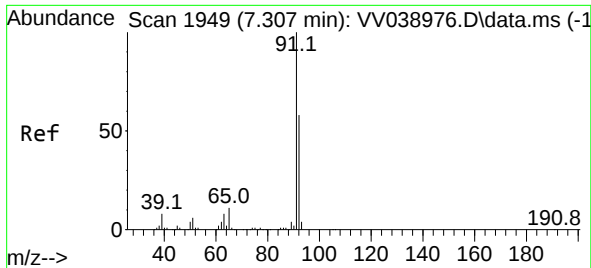
Tgt Ion: 98 Resp: 1344230
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.484 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.087 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

Tgt Ion: 43 Resp: 5396
Ion Ratio Lower Upper
43 100
58 206.3 34.6 51.8#

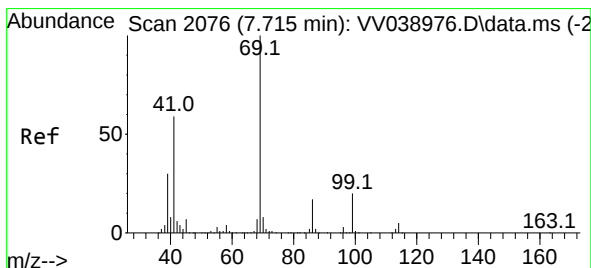
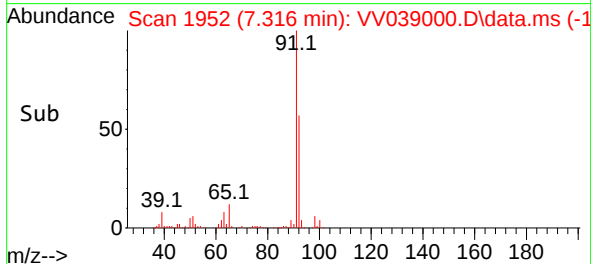
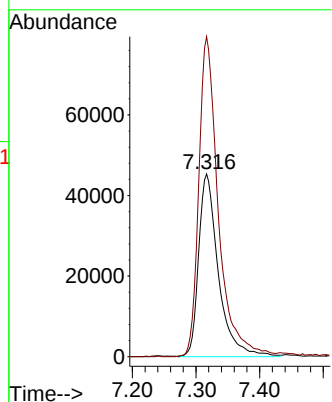
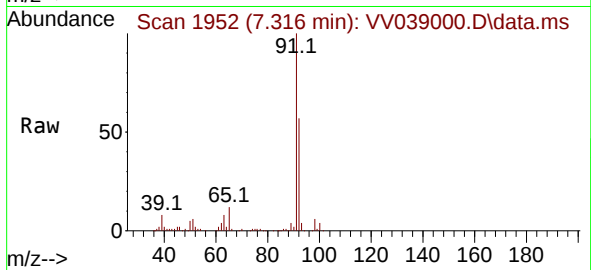




#52
Toluene
Concen: 4.336 ug/l
RT: 7.316 min Scan# 1949
Delta R.T. 0.009 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

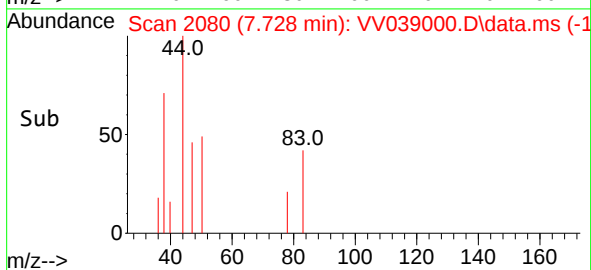
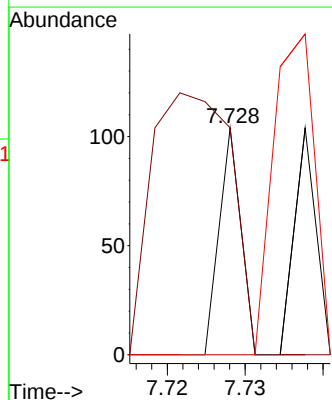
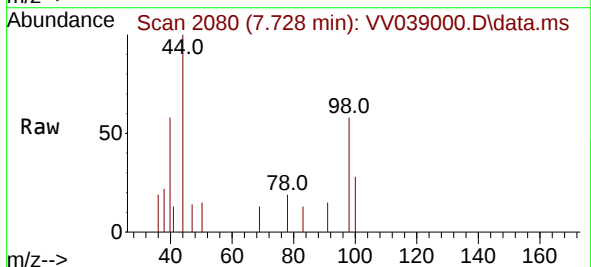
Instrument :
MSVOA_V
ClientSampleId :

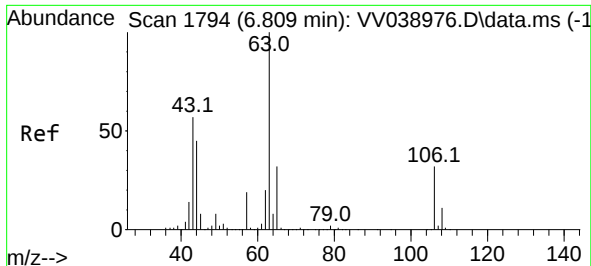
Tgt Ion: 92 Resp: 97882
Ion Ratio Lower Upper
92 100
91 173.3 136.3 204.5



#56
Ethyl methacrylate
Concen: 2.317 ug/l
RT: 7.728 min Scan# 2080
Delta R.T. 0.013 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

Tgt Ion: 69 Resp: 20
Ion Ratio Lower Upper
69 100
41 430.0 47.5 71.3#
39 0.0 24.2 36.2#

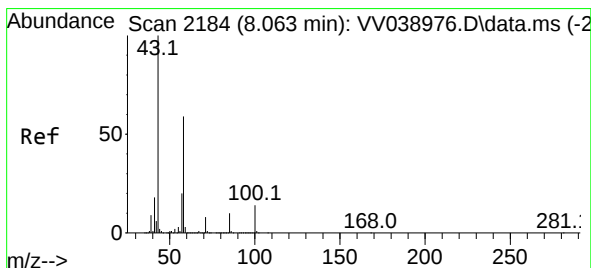
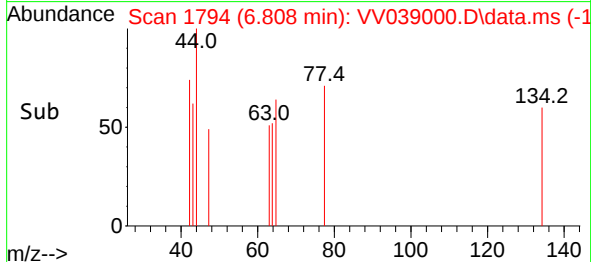
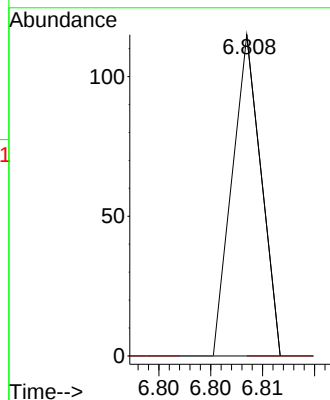
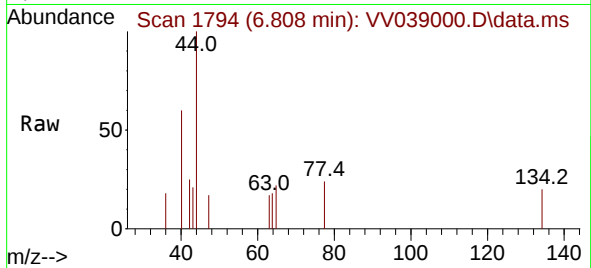




#58
2-Chloroethyl Vinyl ether
Concen: 4.988 ug/l
RT: 6.808 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

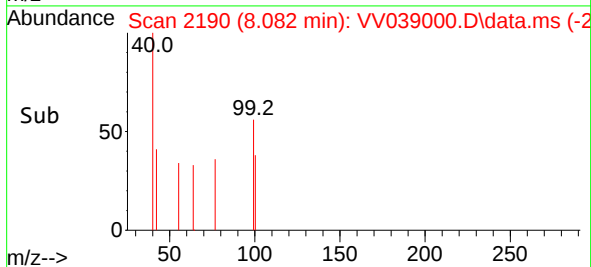
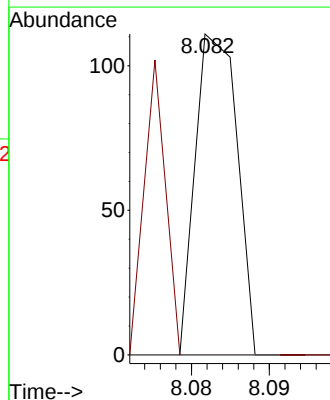
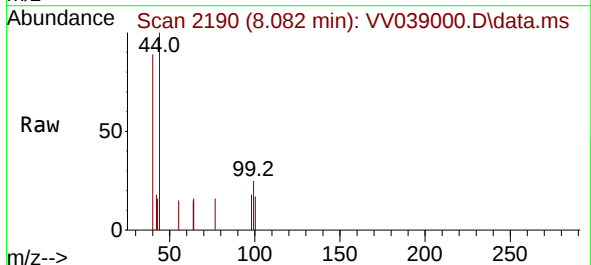
Instrument :
MSVOA_V
ClientSampleId :

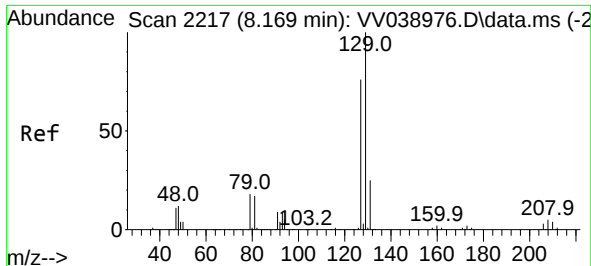
Tgt Ion: 63 Resp: 22
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 10.901 ug/l
RT: 8.082 min Scan# 2190
Delta R.T. 0.019 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

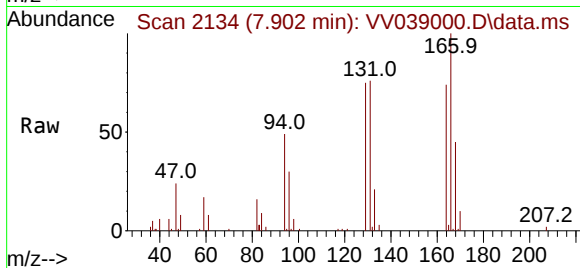
Tgt Ion: 43 Resp: 41
Ion Ratio Lower Upper
43 100
58 48.8 29.8 89.4



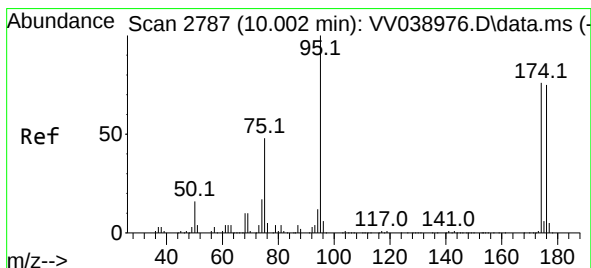
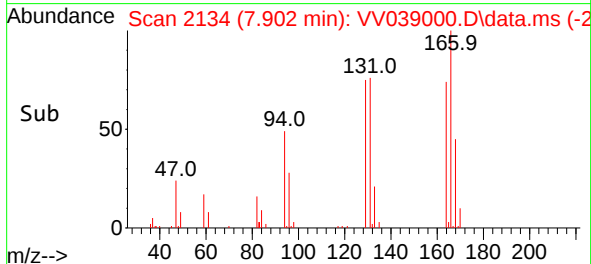
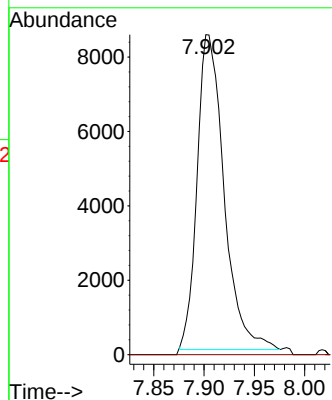


#60
 Dibromochloromethane
 Concen: 1.327 ug/l
 RT: 7.902 min Scan# 2134
 Delta R.T. -0.267 min
 Lab File: VV039000.D
 Acq: 21 Aug 2025 22:33

Instrument :
 MSVOA_V
 ClientSampleId :

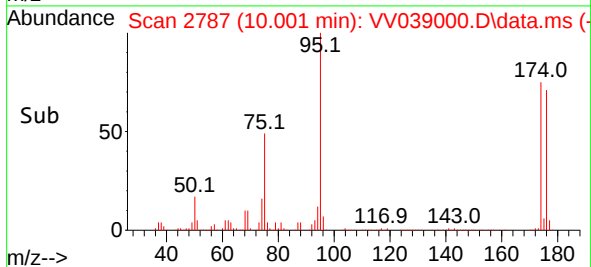
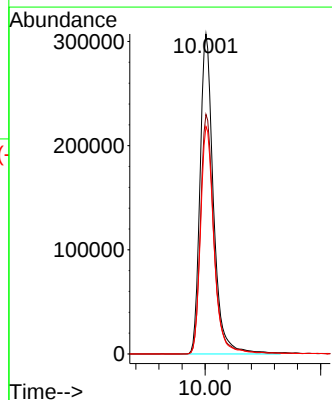
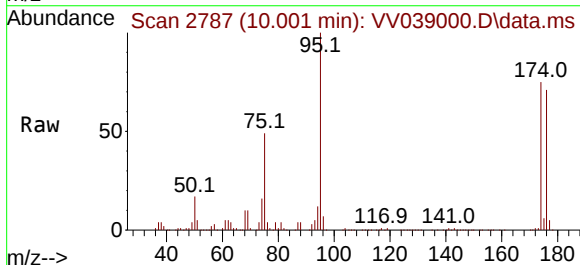


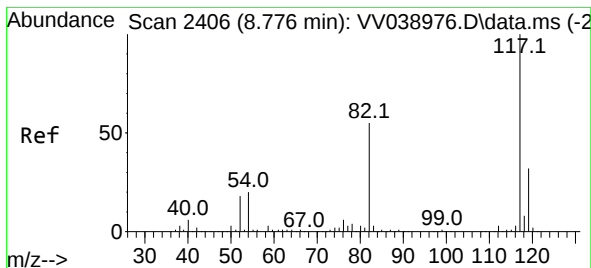
Tgt Ion:129 Resp: 15776
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.1#



#62
 4-Bromofluorobenzene
 Concen: 44.232 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.000 min
 Lab File: VV039000.D
 Acq: 21 Aug 2025 22:33

Tgt Ion: 95 Resp: 494467
 Ion Ratio Lower Upper
 95 100
 174 75.3 0.0 154.4
 176 71.0 0.0 148.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2406

Delta R.T. 0.000 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Instrument :

MSVOA_V

ClientSampleId :

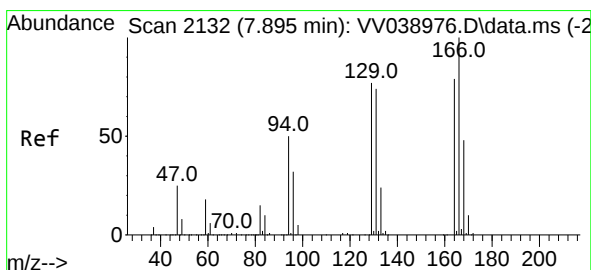
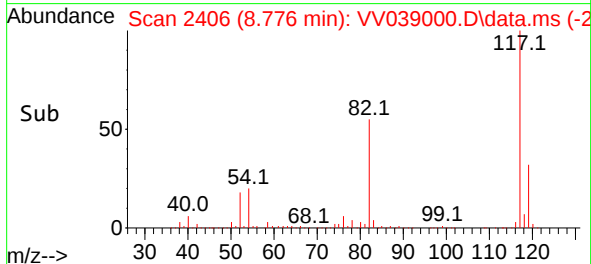
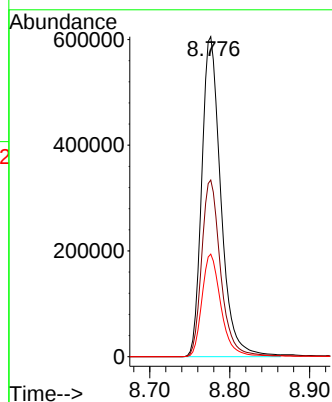
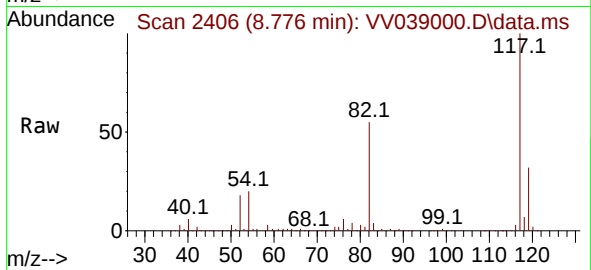
Tgt Ion:117 Resp: 1007735

Ion Ratio Lower Upper

117 100

82 55.2 44.4 66.6

119 32.0 26.0 39.0



#64

Tetrachloroethene

Concen: 2.137 ug/l

RT: 7.905 min Scan# 2135

Delta R.T. 0.009 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Tgt Ion:164 Resp: 16022

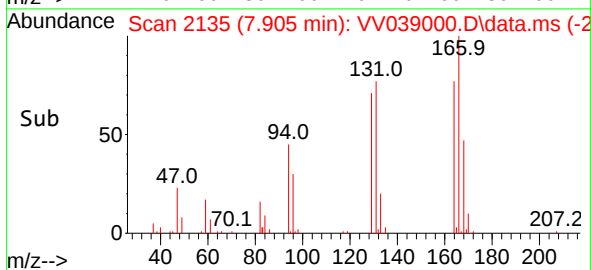
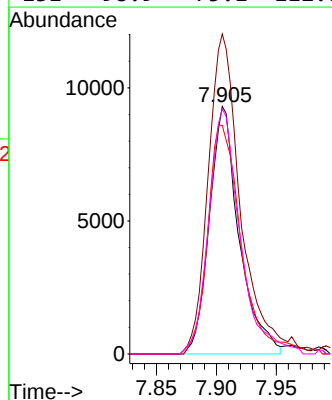
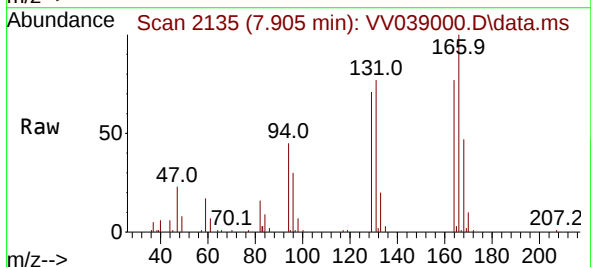
Ion Ratio Lower Upper

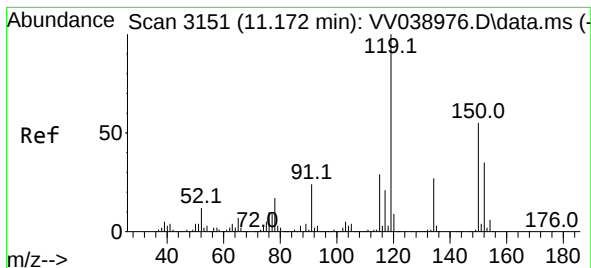
164 100

166 129.3 101.8 152.6

129 92.4 78.7 118.1

131 98.9 75.1 112.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039000.D

Acq: 21 Aug 2025 22:33

Instrument :

MSVOA_V

ClientSampleId :

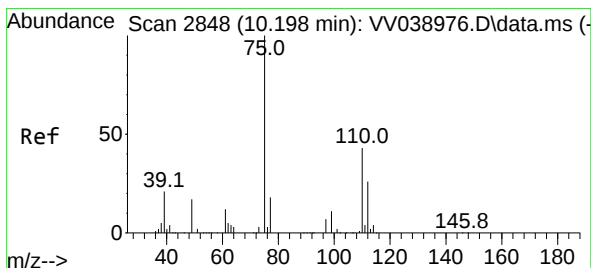
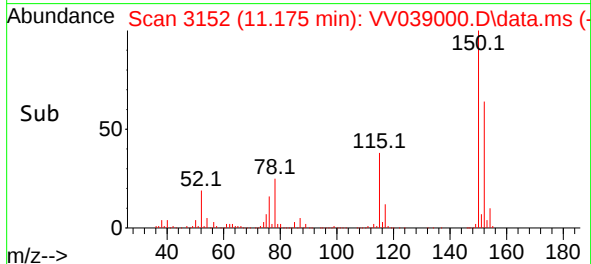
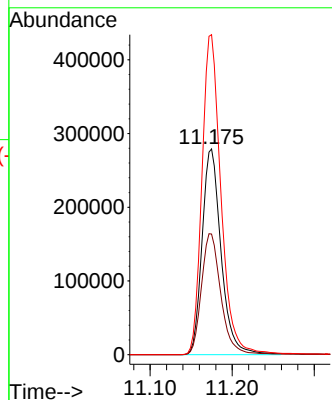
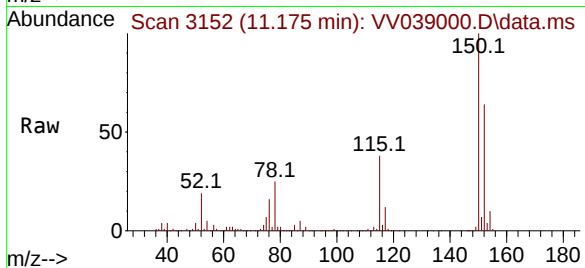
Tgt Ion:152 Resp: 449215

Ion Ratio Lower Upper

152 100

115 60.1 42.5 127.5

150 156.6 0.0 344.8



#76

1,2,3-Trichloropropane

Concen: 29.072 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039000.D

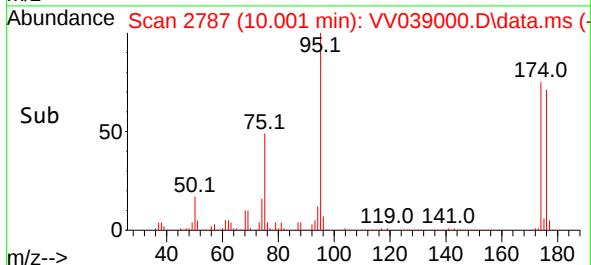
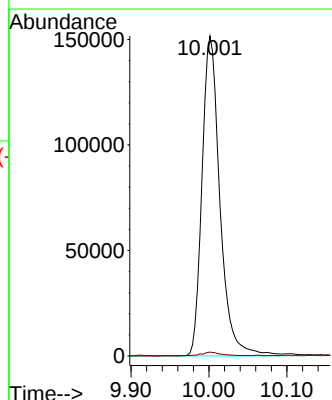
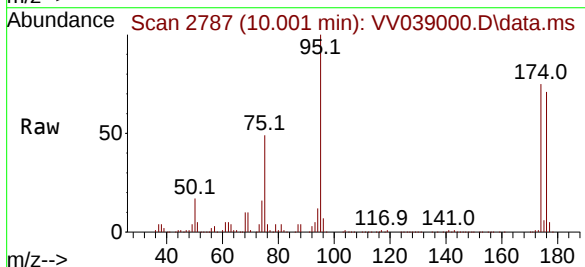
Acq: 21 Aug 2025 22:33

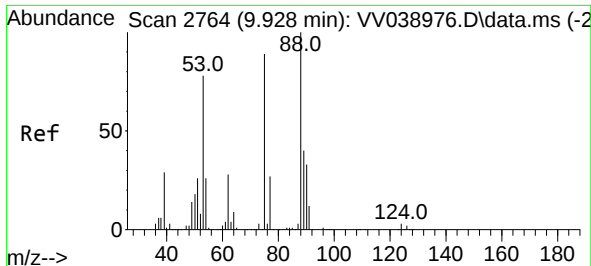
Tgt Ion: 75 Resp: 242240

Ion Ratio Lower Upper

75 100

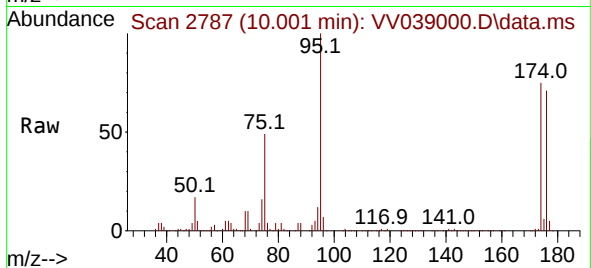
77 1.1 11.3 33.8#



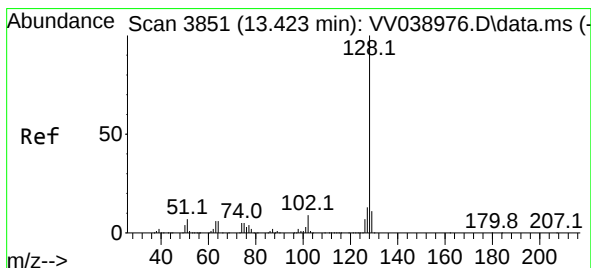
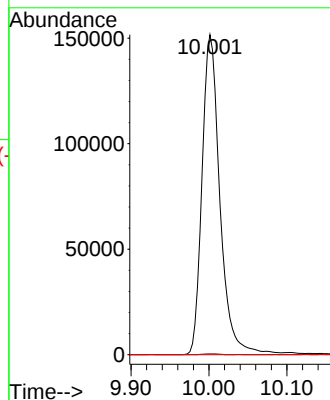
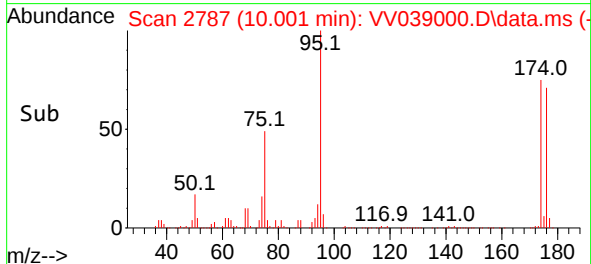


#81
trans-1,4-Dichloro-2-butene
Concen: 66.747 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 75 Resp: 242240
Ion Ratio Lower Upper
75 100
53 0.2 70.3 105.5#
89 0.0 37.9 56.9#



#95
Naphthalene
Concen: 1.701 ug/l
RT: 13.435 min Scan# 3855
Delta R.T. 0.013 min
Lab File: VV039000.D
Acq: 21 Aug 2025 22:33

Tgt Ion:128 Resp: 46700
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 9.8 8.5 12.7

