

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV038999.D
 Acq On : 21 Aug 2025 22:11
 Operator : SY/MD
 Sample : Q2924-06
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:40:02 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)

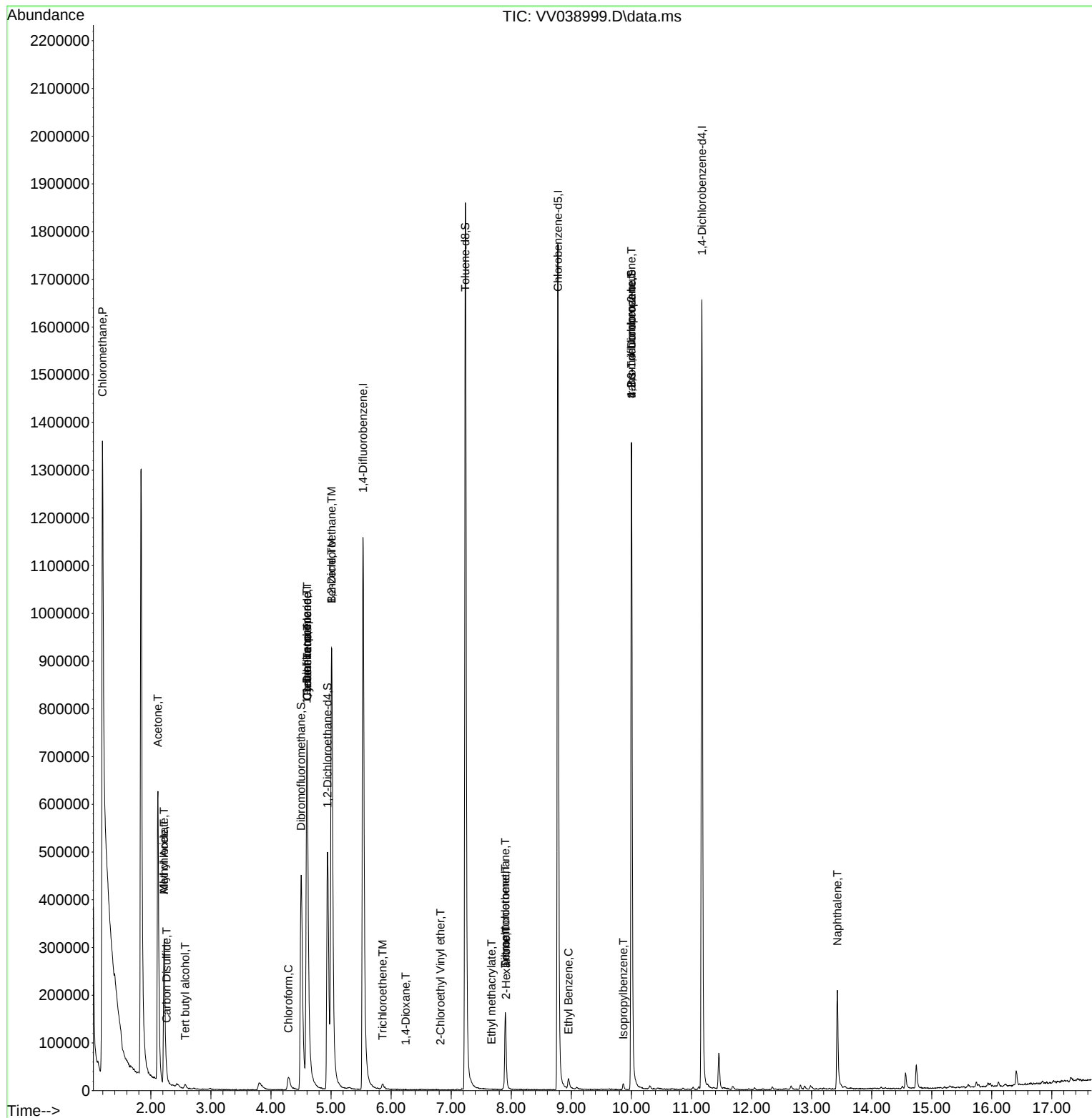
Internal Standards						
1) Pentafluorobenzene	4.600	168	650572	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1153105	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1016294	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	448609	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	449834	49.277	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	98.560%		
35) Dibromofluoromethane	4.503	113	385583	44.588	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	89.180%		
50) Toluene-d8	7.236	98	1326138	43.977	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	87.960%#		
62) 4-Bromofluorobenzene	10.001	95	462072	41.887	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	83.780%#		
Target Compounds			Qvalue			
3) Chloromethane	1.195	50	57639	5.738	ug/l #	42
11) Tert butyl alcohol	2.571	59	3257	2.636	ug/l #	76
13) Acrolein	2.011	56	20	Below Cal	#	13
14) Allyl chloride	2.220	41	34048	3.454	ug/l #	69
16) Acetone	2.117	43	711942	194.315	ug/l	98
17) Carbon Disulfide	2.262	76	4302	0.209	ug/l	96
18) Methyl Acetate	2.220	43	84630	10.898	ug/l #	45
28) Bromochloromethane	4.291	49	2340	Below Cal	#	3
30) Chloroform	4.291	83	35087	2.141	ug/l	92
31) Cyclohexane	4.603	56	13394	1.047	ug/l #	4
36) 1,1-Dichloropropene	4.596	75	50915	4.534	ug/l #	48
38) Carbon Tetrachloride	4.603	117	67232	4.470	ug/l #	16
40) Benzene	5.008	78	1078206	30.653	ug/l	99
42) 1,2-Dichloroethane	5.008	62	9442	0.734	ug/l	75
44) Trichloroethene	5.857	130	4604	0.483	ug/l	61
49) 1,4-Dioxane	6.243	88	52	0.414	ug/l #	26
56) Ethyl methacrylate	7.670	69	39	2.318	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.821	63	76	4.996	ug/l #	43
59) 2-Hexanone	7.915	43	322	10.924	ug/l	82
60) Dibromochloromethane	7.902	129	35619	3.037	ug/l #	11
64) Tetrachloroethene	7.902	164	40507	5.357	ug/l	94
67) Ethyl Benzene	8.953	91	17096	0.457	ug/l	93
73) Isopropylbenzene	9.866	105	7927	0.263	ug/l	96
76) 1,2,3-Trichloropropane	10.001	75	235581	28.311	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	235581	64.999	ug/l #	14
95) Naphthalene	13.429	128	179613	6.549	ug/l	99

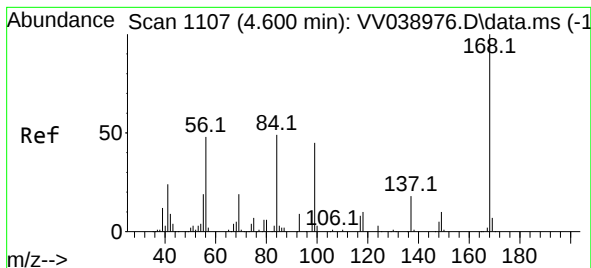
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 22 04:15:04 2025
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV038999.D

Acq: 21 Aug 2025 22:11

Instrument :

MSVOA_V

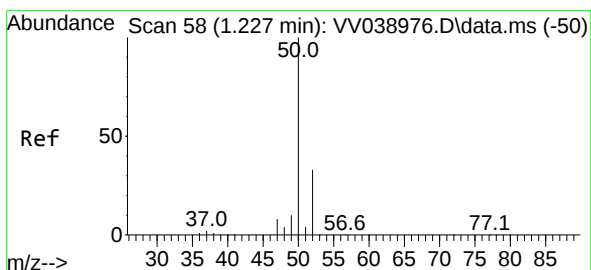
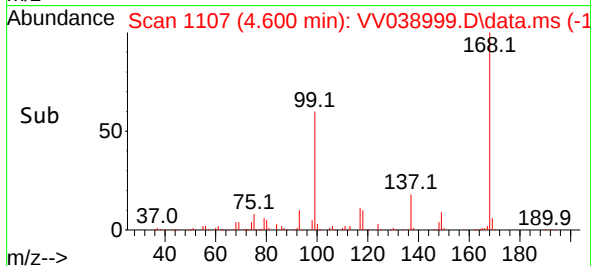
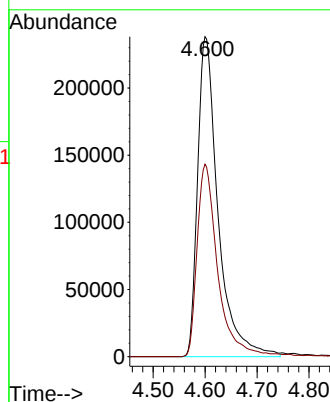
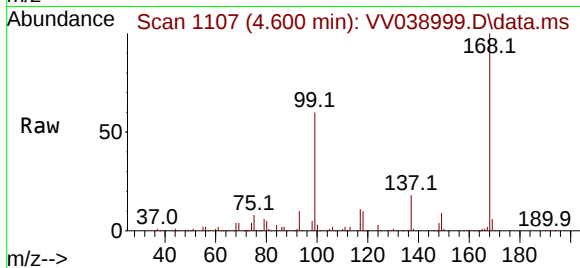
ClientSampleId :

Tgt Ion:168 Resp: 650572

Ion Ratio Lower Upper

168 100

99 60.1 47.0 70.6



#3

Chloromethane

Concen: 5.738 ug/l

RT: 1.195 min Scan# 48

Delta R.T. -0.032 min

Lab File: VV038999.D

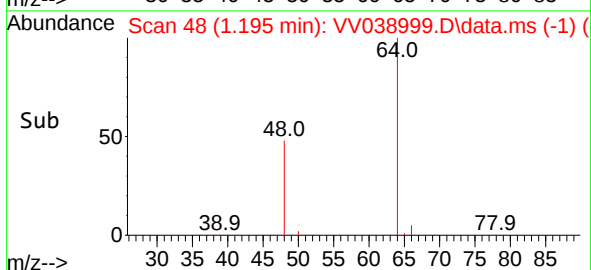
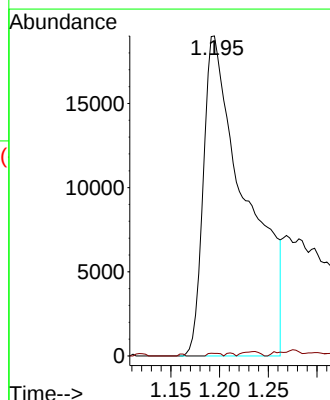
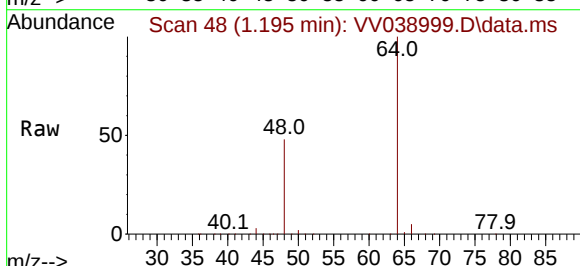
Acq: 21 Aug 2025 22:11

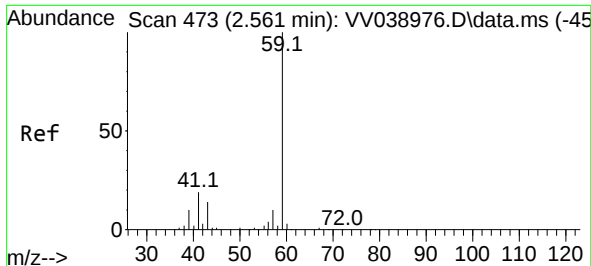
Tgt Ion: 50 Resp: 57639

Ion Ratio Lower Upper

50 100

52 0.2 26.2 39.2#

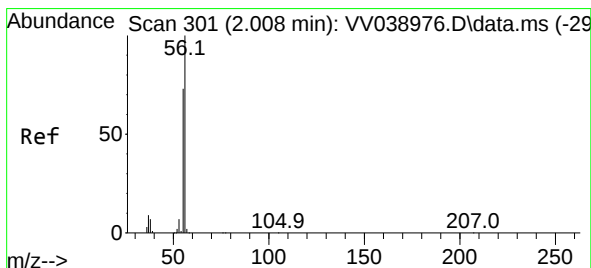
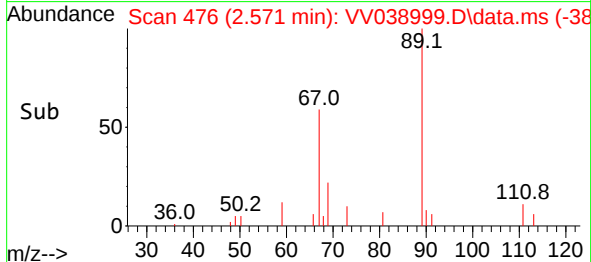
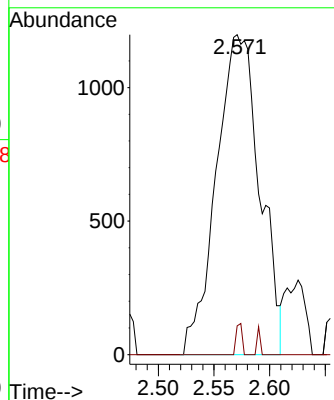
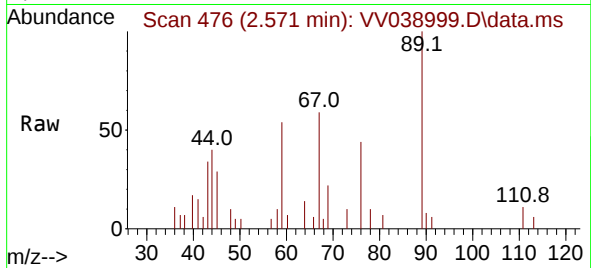




#11
Tert butyl alcohol
Concen: 2.636 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.010 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

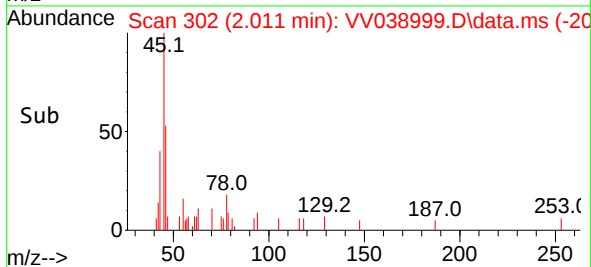
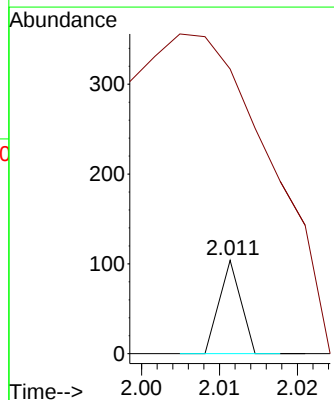
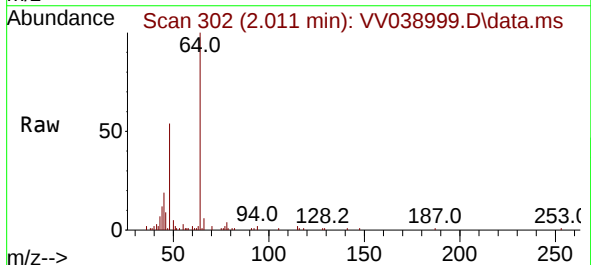
Instrument :
MSVOA_V
ClientSampleId :

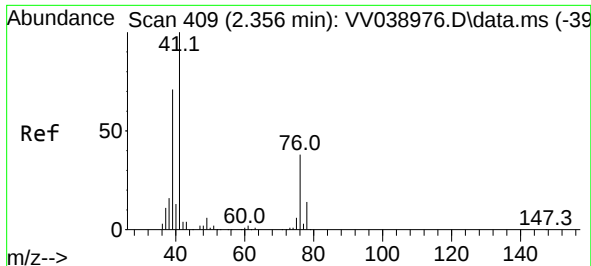
Tgt Ion: 59 Resp: 3257
Ion Ratio Lower Upper
59 100
57 1.3 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.011 min Scan# 302
Delta R.T. 0.003 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion: 56 Resp: 20
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#

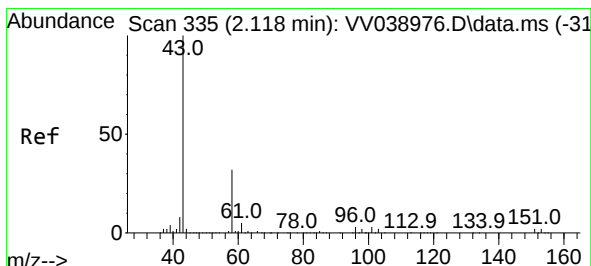
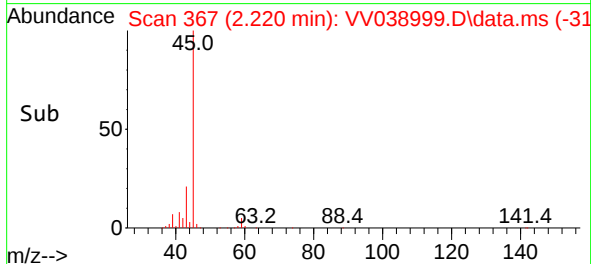
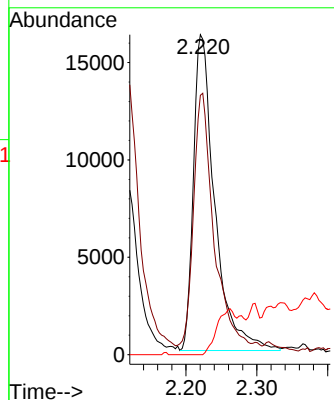
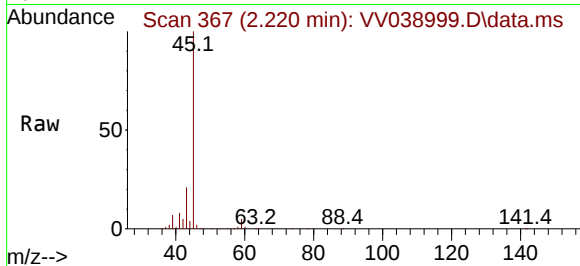




#14
 Allyl chloride
 Concen: 3.454 ug/l
 RT: 2.220 min Scan# 30
 Delta R.T. -0.135 min
 Lab File: VV038999.D
 Acq: 21 Aug 2025 22:11

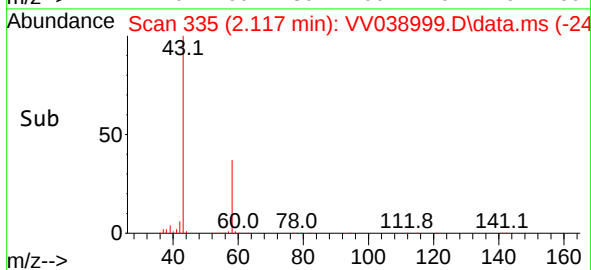
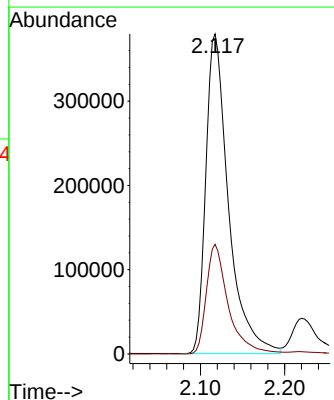
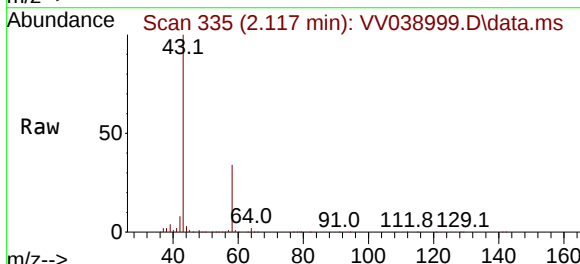
Instrument :
 MSVOA_V
 ClientSampleId :

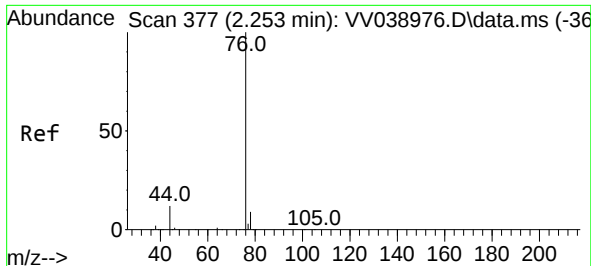
Tgt Ion: 41 Resp: 34048
 Ion Ratio Lower Upper
 41 100
 39 74.6 55.0 82.4
 76 0.0 35.6 53.4#



#16
 Acetone
 Concen: 194.315 ug/l
 RT: 2.117 min Scan# 335
 Delta R.T. -0.000 min
 Lab File: VV038999.D
 Acq: 21 Aug 2025 22:11

Tgt Ion: 43 Resp: 711942
 Ion Ratio Lower Upper
 43 100
 58 34.3 26.3 39.5

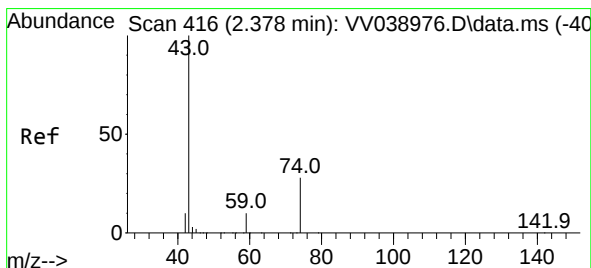
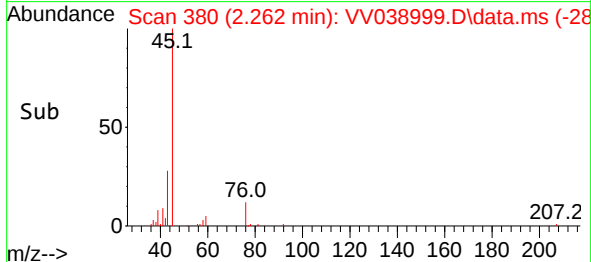
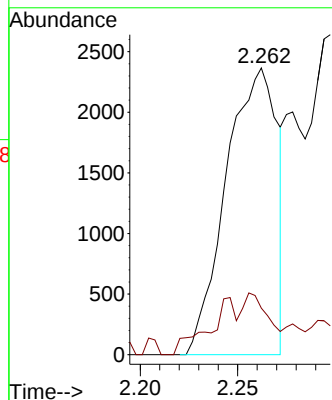
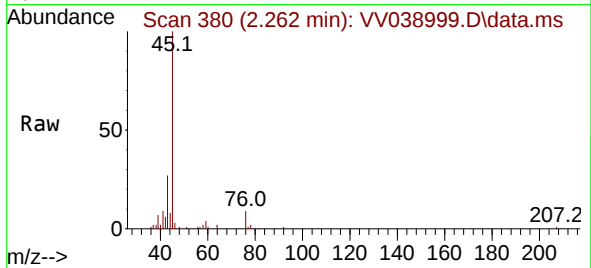




#17
Carbon Disulfide
Concen: 0.209 ug/l
RT: 2.262 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

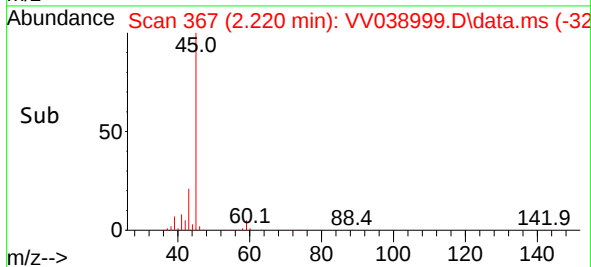
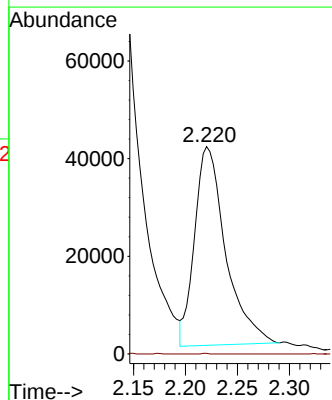
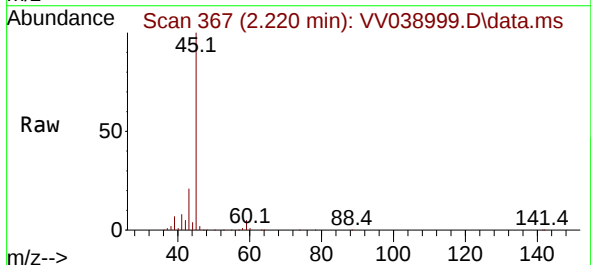
Instrument :
MSVOA_V
ClientSampleId :

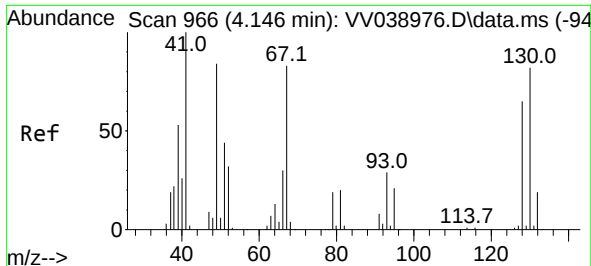
Tgt Ion: 76 Resp: 4302
Ion Ratio Lower Upper
76 100
78 10.5 7.3 10.9



#18
Methyl Acetate
Concen: 10.898 ug/l
RT: 2.220 min Scan# 367
Delta R.T. -0.158 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

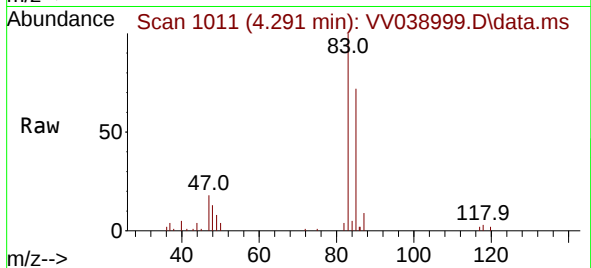
Tgt Ion: 43 Resp: 84630
Ion Ratio Lower Upper
43 100
74 0.1 23.5 35.3#



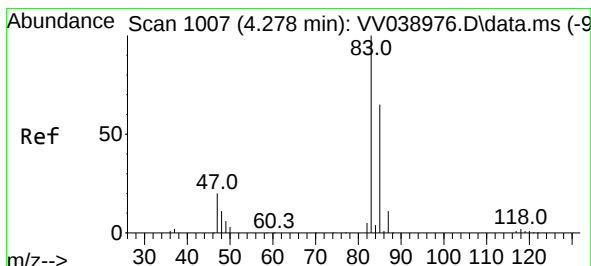
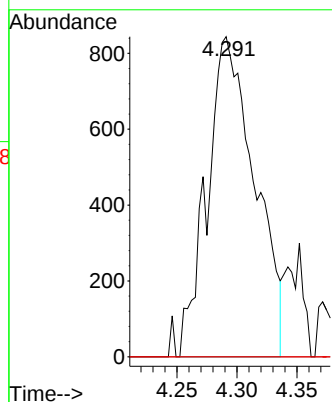
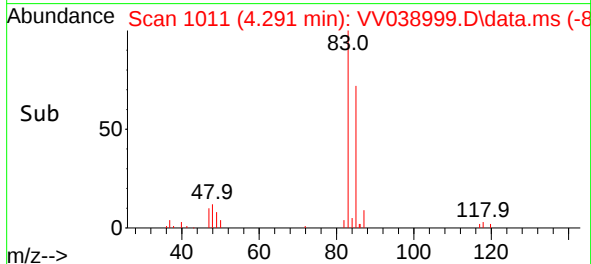


#28
Bromochloromethane
Concen: Below Cal
RT: 4.291 min Scan# 1011
Delta R.T. 0.145 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Instrument :
MSVOA_V
ClientSampleId :

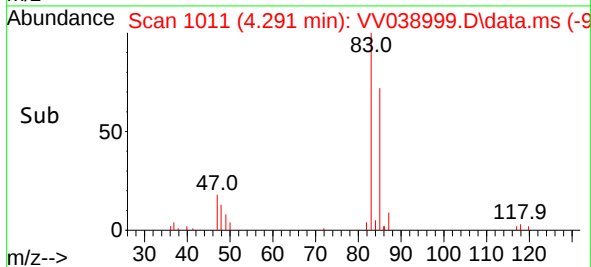
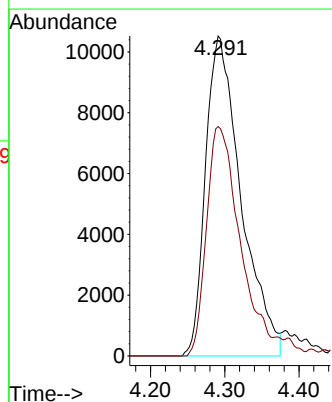
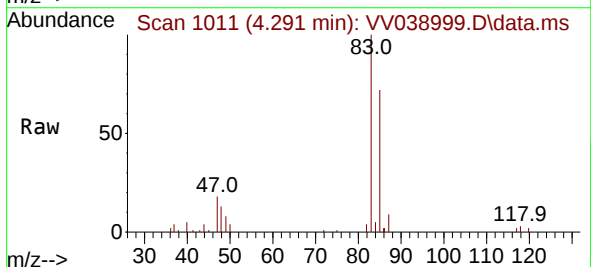


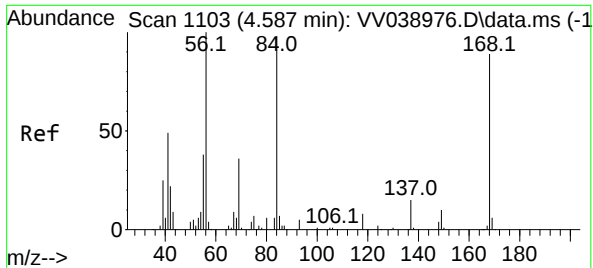
Tgt Ion: 49 Resp: 2340
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 78.2 117.2#



#30
Chloroform
Concen: 2.141 ug/l
RT: 4.291 min Scan# 1011
Delta R.T. 0.013 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

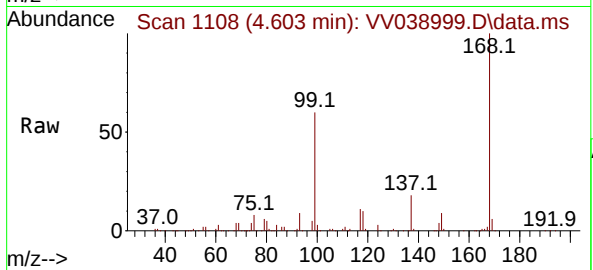
Tgt Ion: 83 Resp: 35087
Ion Ratio Lower Upper
83 100
85 71.7 52.2 78.2



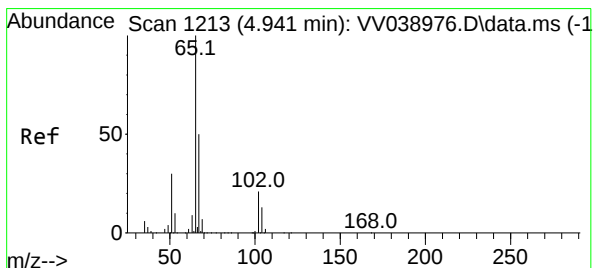
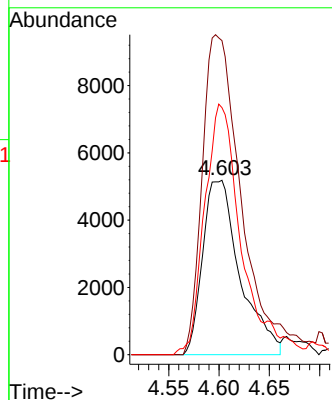
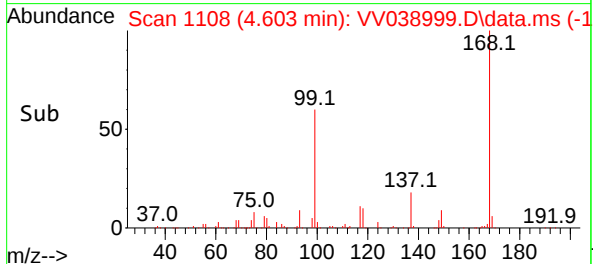


#31
Cyclohexane
Concen: 1.047 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.016 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

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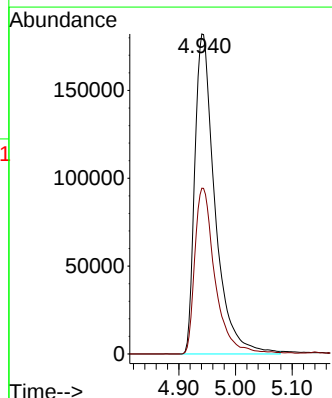
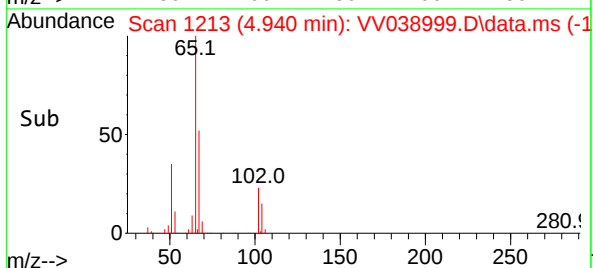
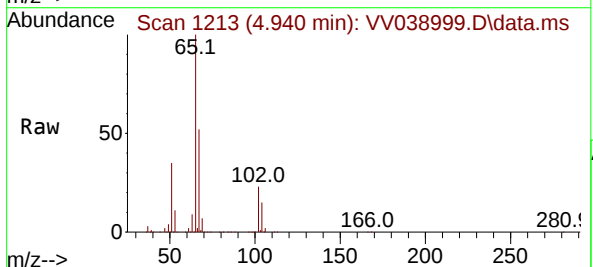


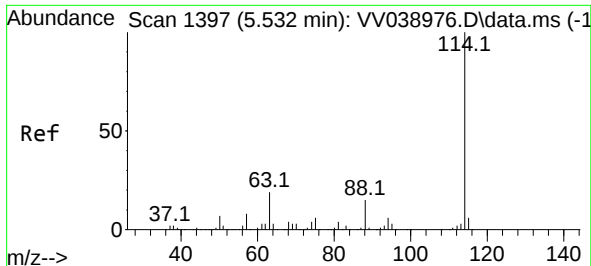
Tgt Ion: 56 Resp: 13394
Ion Ratio Lower Upper
56 100
69 180.0 28.6 42.8#
84 138.2 78.1 117.1#



#33
1,2-Dichloroethane-d4
Concen: 49.277 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. -0.000 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion: 65 Resp: 449834
Ion Ratio Lower Upper
65 100
67 51.8 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: VV038999.D

Acq: 21 Aug 2025 22:11

Instrument :

MSVOA_V

ClientSampleId :

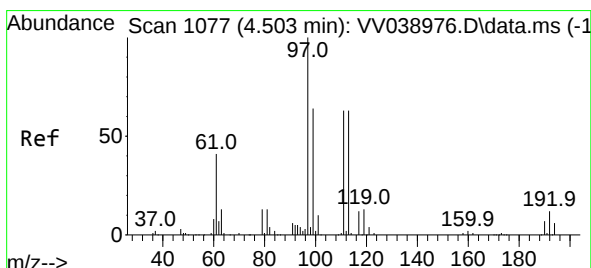
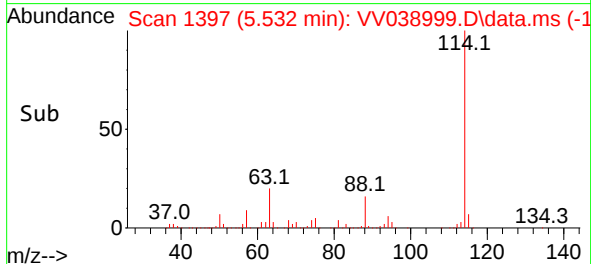
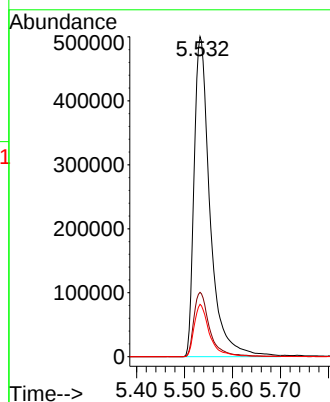
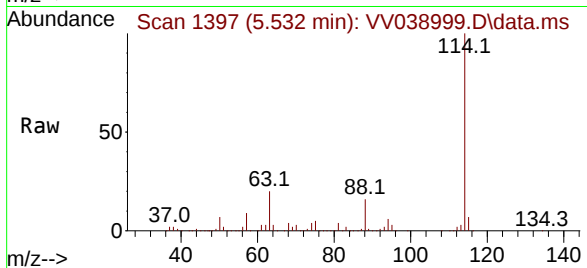
Tgt Ion:114 Resp: 1153105

Ion Ratio Lower Upper

114 100

63 20.1 0.0 37.4

88 16.3 0.0 30.4



#35

Dibromofluoromethane

Concen: 44.588 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. -0.000 min

Lab File: VV038999.D

Acq: 21 Aug 2025 22:11

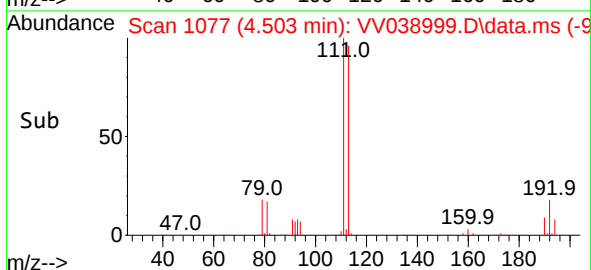
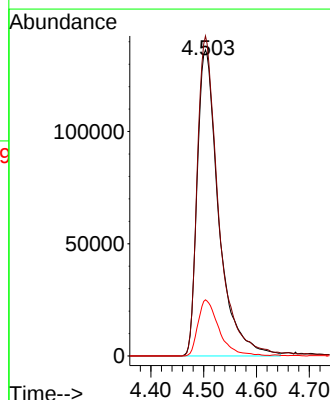
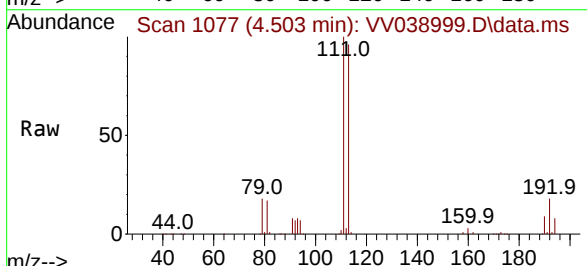
Tgt Ion:113 Resp: 385583

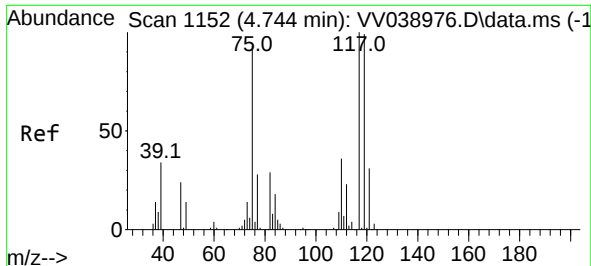
Ion Ratio Lower Upper

113 100

111 102.8 81.3 121.9

192 18.0 15.4 23.0





#36

1,1-Dichloropropene

Concen: 4.534 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. -0.148 min

Lab File: VV038999.D

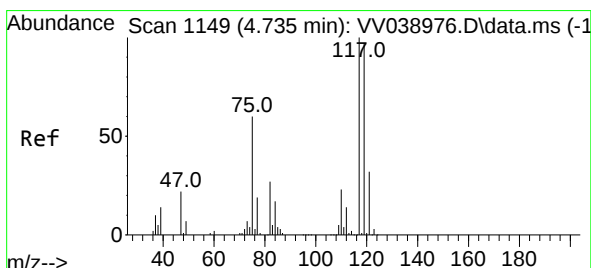
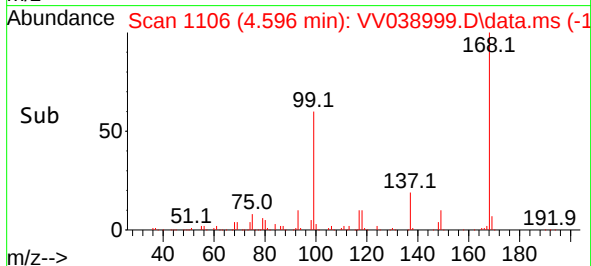
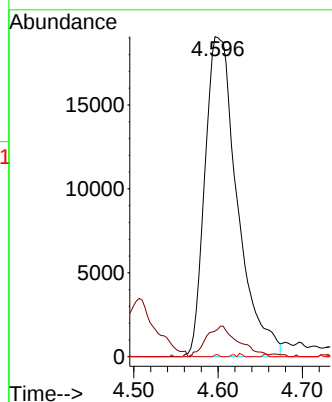
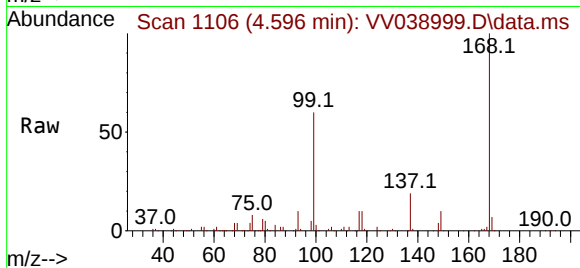
Acq: 21 Aug 2025 22:11

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	50915
Ion Ratio	Lower	Upper	
75	100		
110	9.5	19.6	58.7#
77	0.0	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 4.470 ug/l

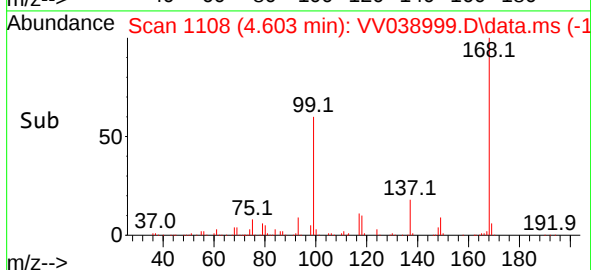
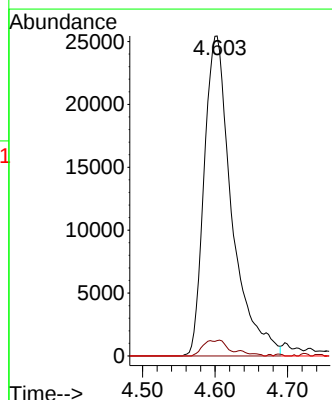
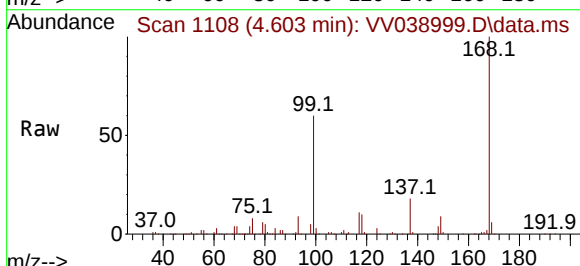
RT: 4.603 min Scan# 1108

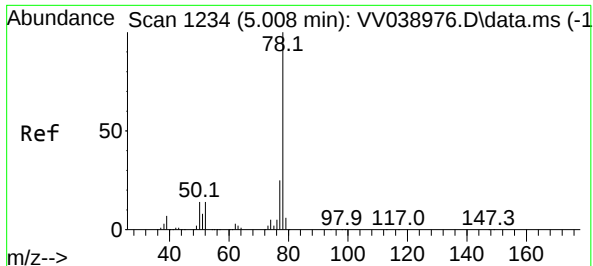
Delta R.T. -0.132 min

Lab File: VV038999.D

Acq: 21 Aug 2025 22:11

Tgt Ion:	117	Resp:	67232
Ion Ratio	Lower	Upper	
117	100		
119	4.8	77.1	115.7#
121	0.0	25.4	38.2#

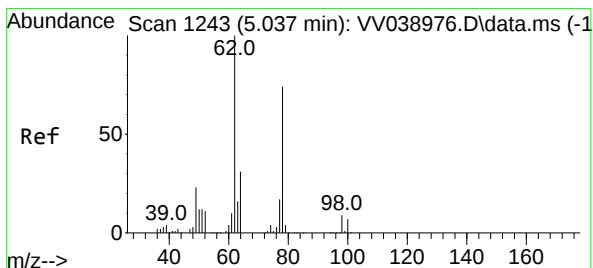
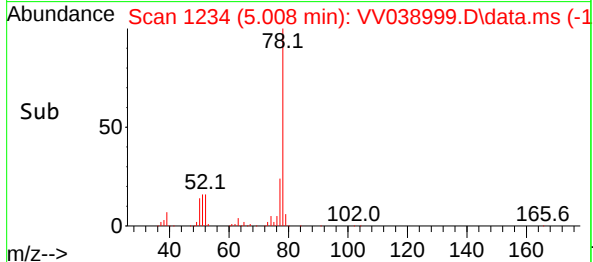
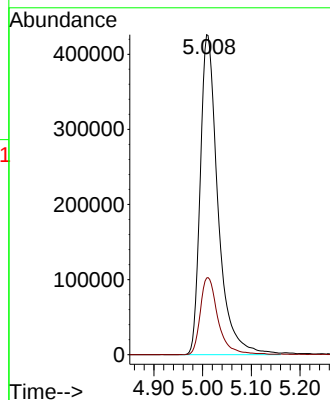
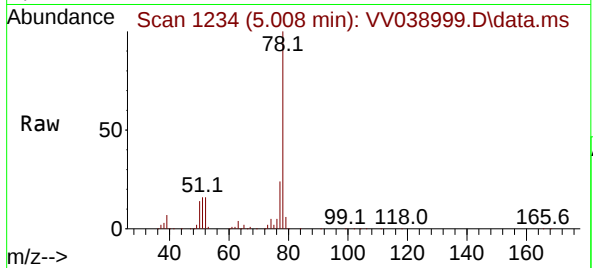




#40
Benzene
Concen: 30.653 ug/l
RT: 5.008 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

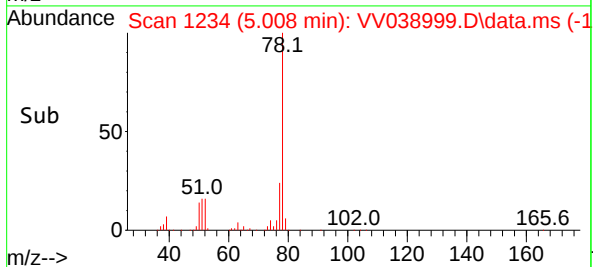
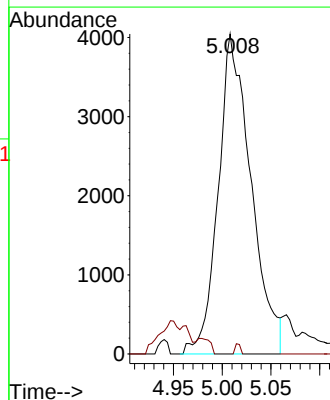
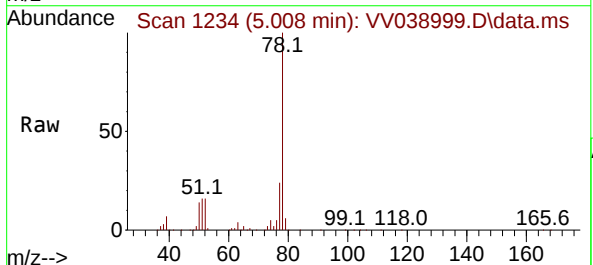
Instrument :
MSVOA_V
ClientSampleId :

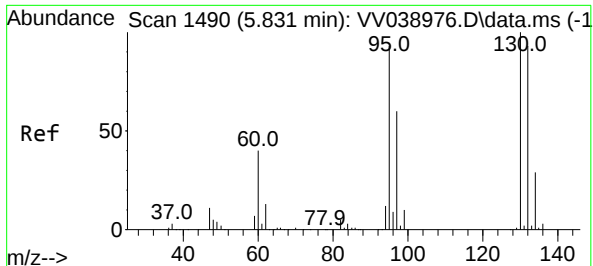
Tgt Ion: 78 Resp: 1078206
Ion Ratio Lower Upper
78 100
77 23.9 19.6 29.4



#42
1,2-Dichloroethane
Concen: 0.734 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. -0.029 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion: 62 Resp: 9442
Ion Ratio Lower Upper
62 100
98 0.5 0.0 19.2

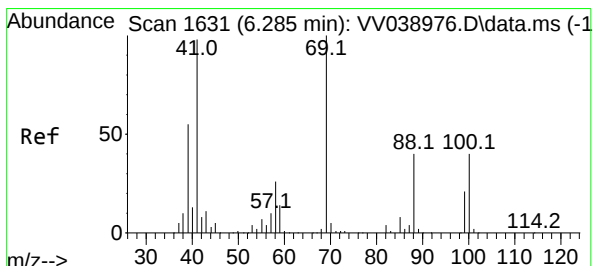
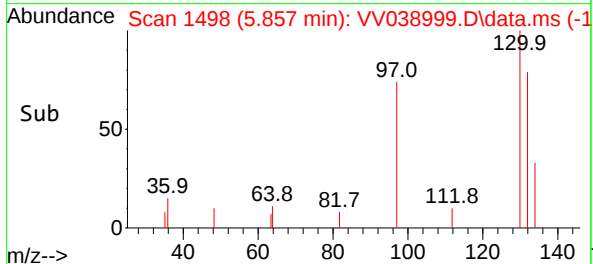
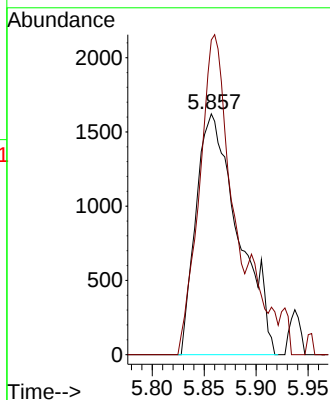
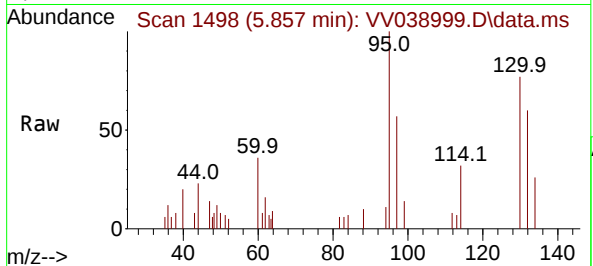




#44
 Trichloroethene
 Concen: 0.483 ug/l
 RT: 5.857 min Scan# 1498
 Delta R.T. 0.026 min
 Lab File: VV038999.D
 Acq: 21 Aug 2025 22:11

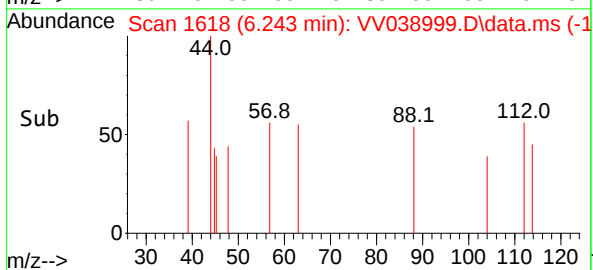
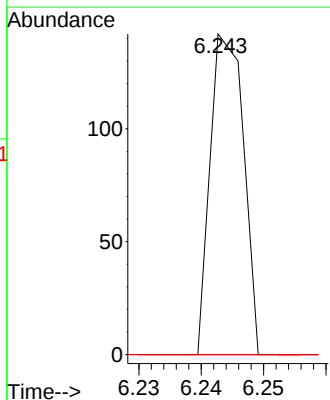
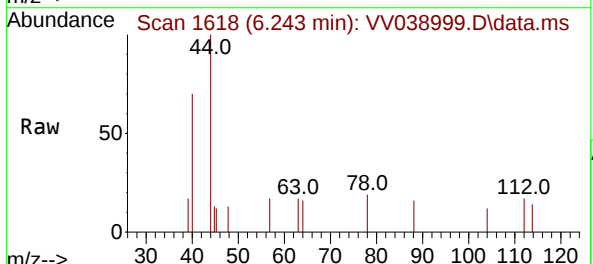
Instrument :
 MSVOA_V
 ClientSampleId :

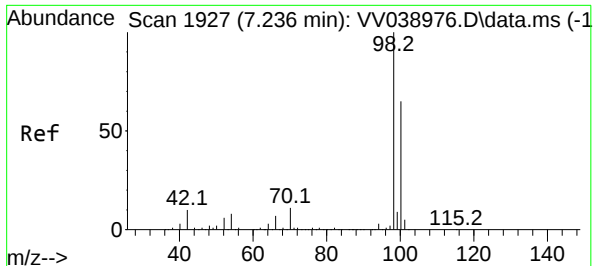
Tgt Ion:130 Resp: 4604
 Ion Ratio Lower Upper
 130 100
 95 130.6 0.0 186.6



#49
 1,4-Dioxane
 Concen: 0.414 ug/l
 RT: 6.243 min Scan# 1618
 Delta R.T. -0.042 min
 Lab File: VV038999.D
 Acq: 21 Aug 2025 22:11

Tgt Ion: 88 Resp: 52
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.6 36.8#
 58 0.0 51.8 77.6#

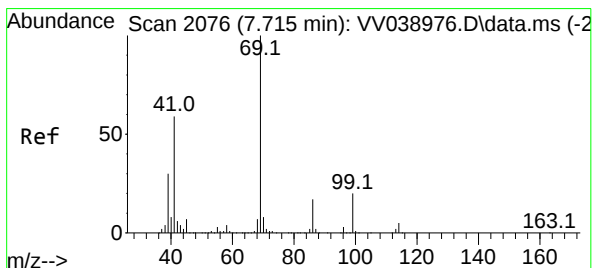
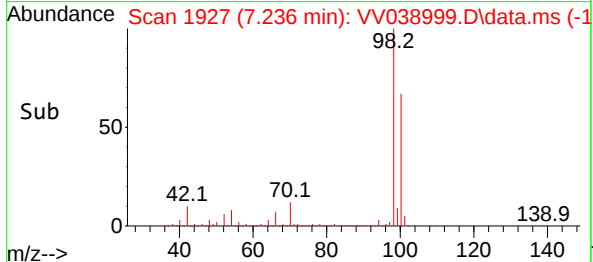
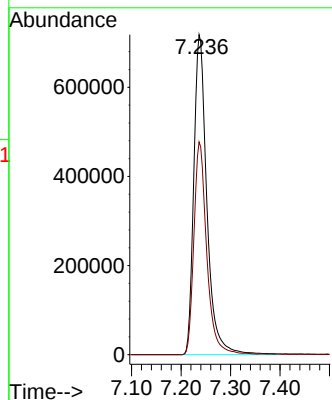
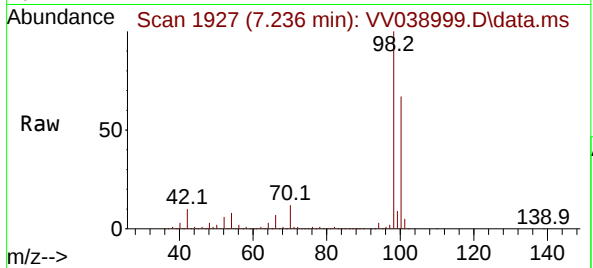




#50
Toluene-d8
Concen: 43.977 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

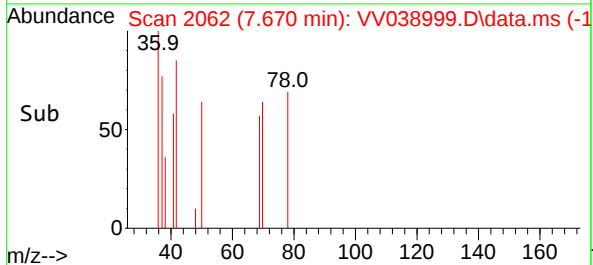
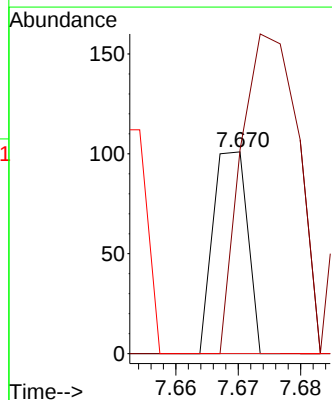
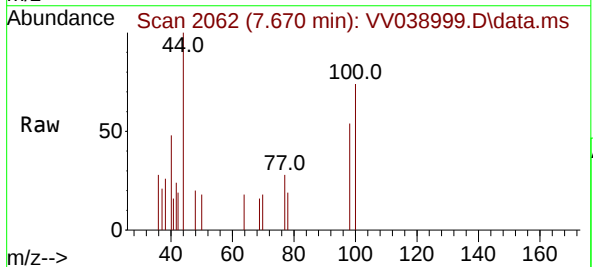
Instrument :
MSVOA_V
ClientSampleId :

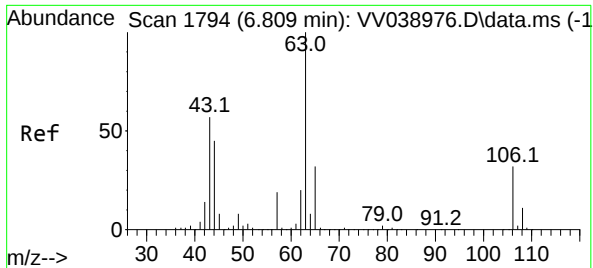
Tgt Ion: 98 Resp: 1326138
Ion Ratio Lower Upper
98 100
100 65.3 52.2 78.2



#56
Ethyl methacrylate
Concen: 2.318 ug/l
RT: 7.670 min Scan# 2062
Delta R.T. -0.045 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion: 69 Resp: 39
Ion Ratio Lower Upper
69 100
41 259.0 47.5 71.3#
39 0.0 24.2 36.2#

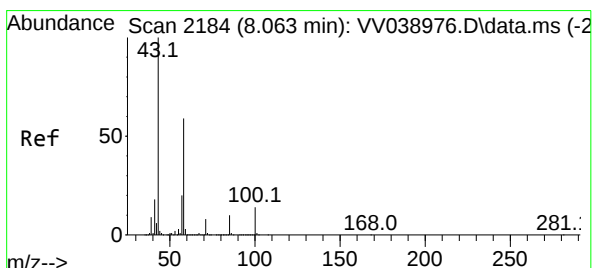
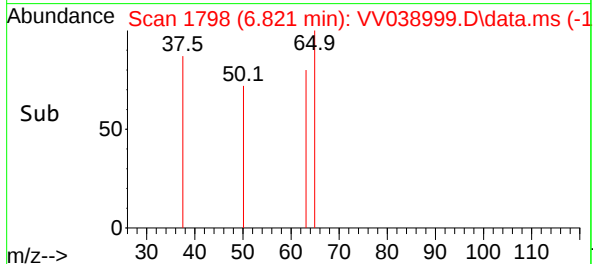
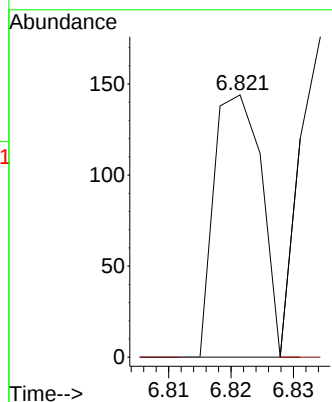
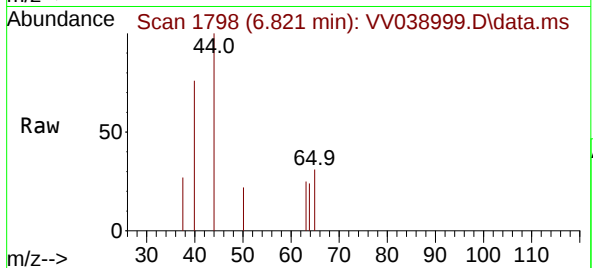




#58
2-Chloroethyl Vinyl ether
Concen: 4.996 ug/l
RT: 6.821 min Scan# 11
Delta R.T. 0.012 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

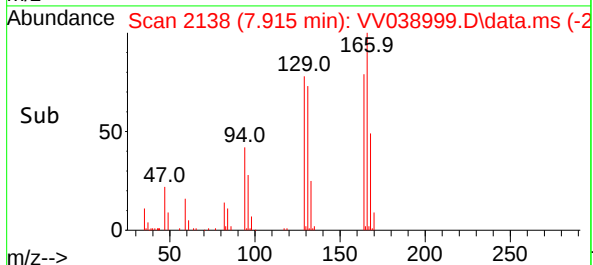
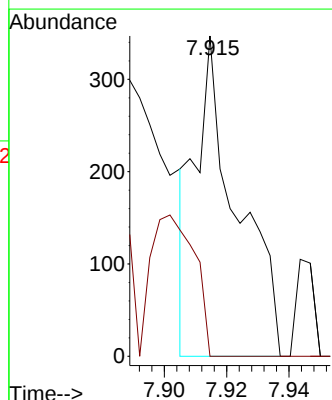
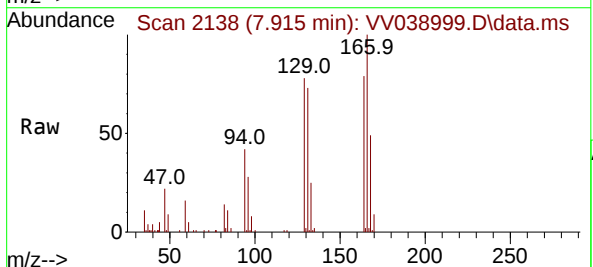
Instrument :
MSVOA_V
ClientSampleId :

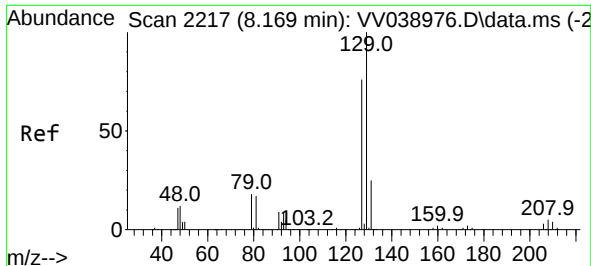
Tgt Ion: 63 Resp: 76
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 10.924 ug/l
RT: 7.915 min Scan# 2138
Delta R.T. -0.148 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion: 43 Resp: 322
Ion Ratio Lower Upper
43 100
58 46.0 29.8 89.4

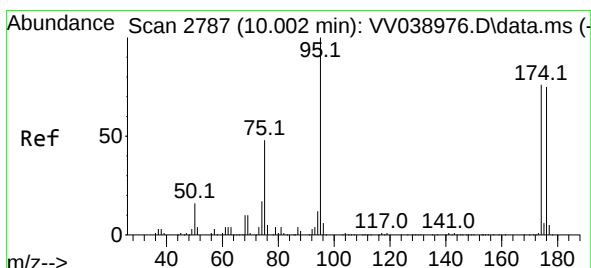
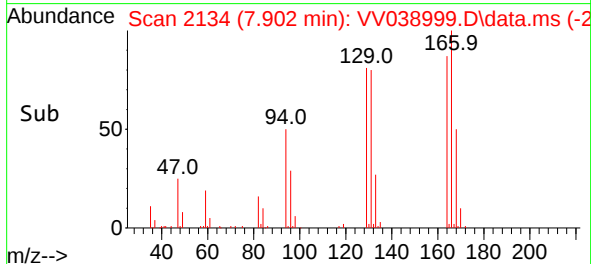
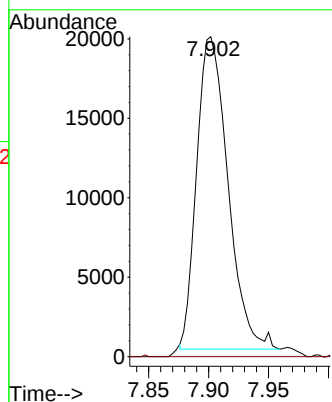
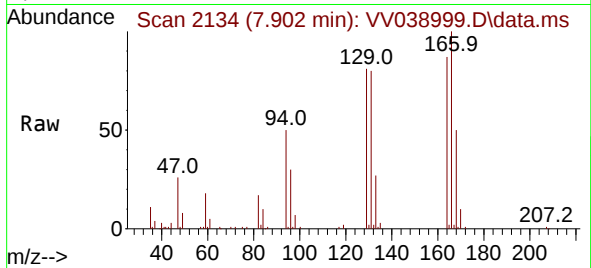




#60
Dibromochloromethane
Concen: 3.037 ug/l
RT: 7.902 min Scan# 2134
Delta R.T. -0.267 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

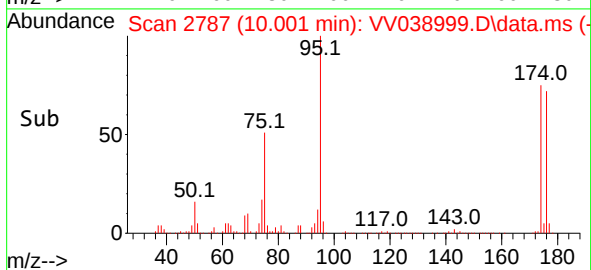
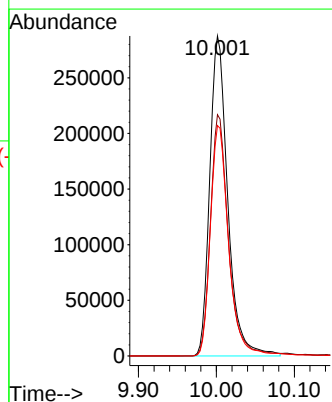
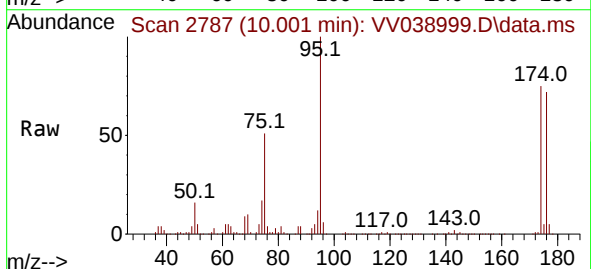
Instrument :
MSVOA_V
ClientSampleId :

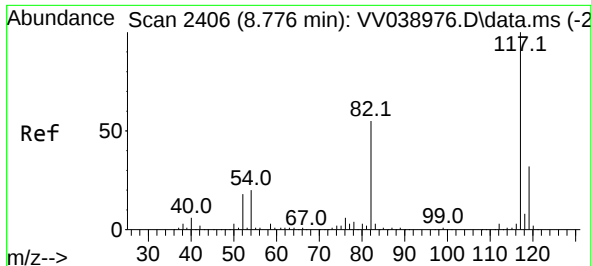
Tgt Ion:129 Resp: 35619
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.1#



#62
4-Bromofluorobenzene
Concen: 41.887 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.000 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

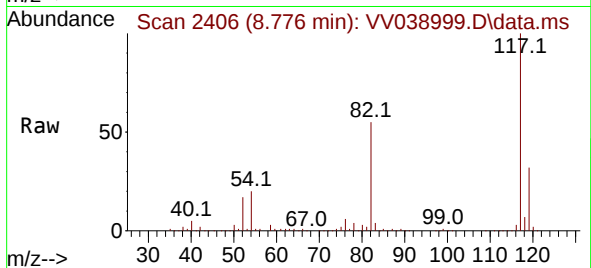
Tgt Ion: 95 Resp: 462072
Ion Ratio Lower Upper
95 100
174 76.3 0.0 154.4
176 73.7 0.0 148.6



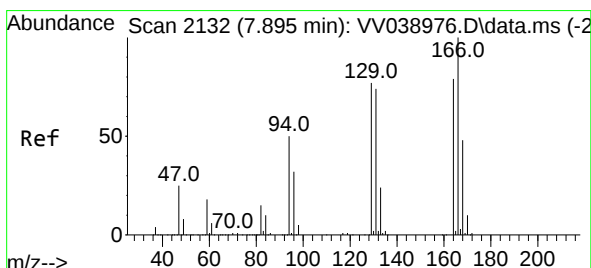
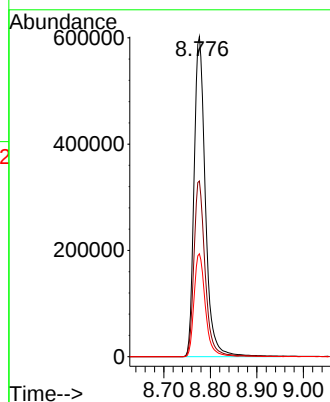
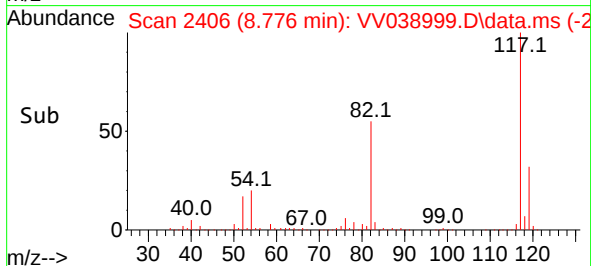


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Instrument :
MSVOA_V
ClientSampleId :

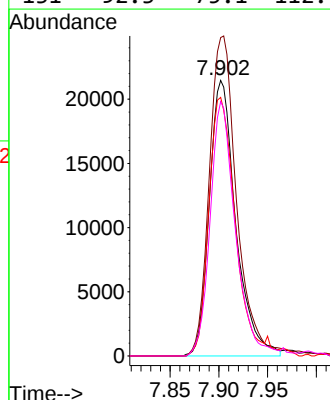
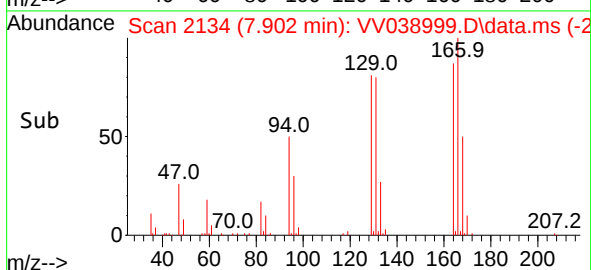
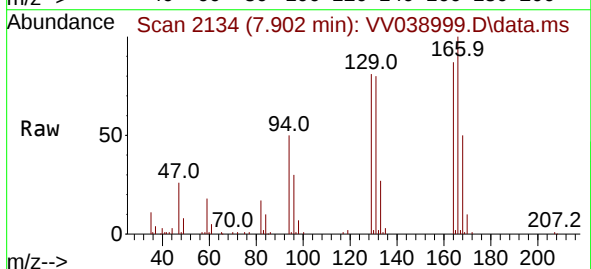


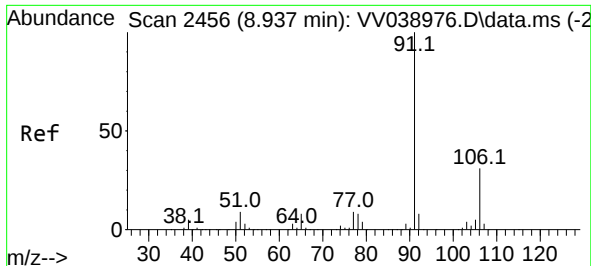
Tgt Ion:117 Resp: 1016294
Ion Ratio Lower Upper
117 100
82 54.9 44.4 66.6
119 32.1 26.0 39.0



#64
Tetrachloroethene
Concen: 5.357 ug/l
RT: 7.902 min Scan# 2134
Delta R.T. 0.006 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion:164 Resp: 40507
Ion Ratio Lower Upper
164 100
166 115.6 101.8 152.6
129 93.8 78.7 118.1
131 92.3 75.1 112.7

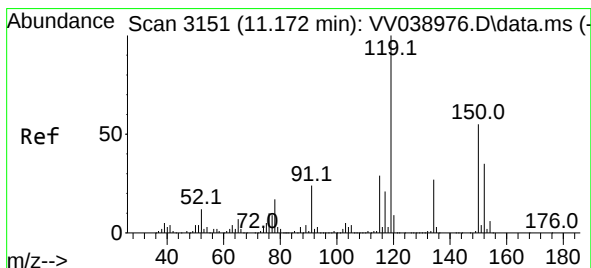
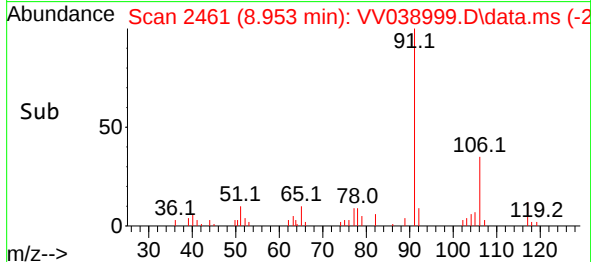
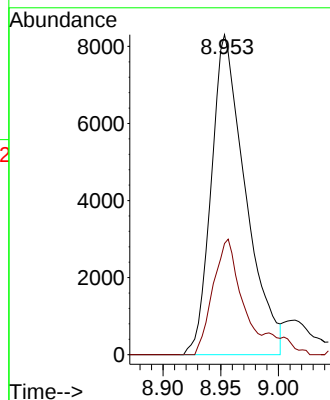
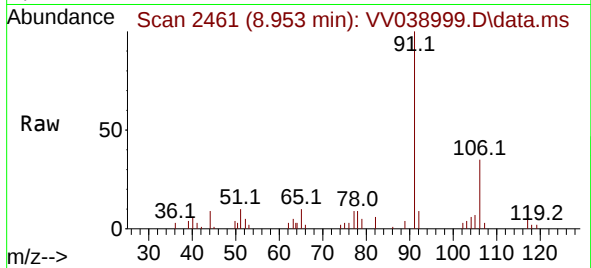




#67
Ethyl Benzene
Concen: 0.457 ug/l
RT: 8.953 min Scan# 2456
Delta R.T. 0.016 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

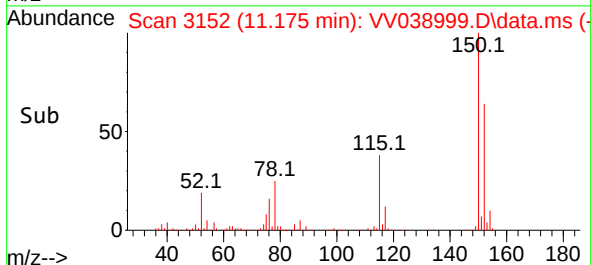
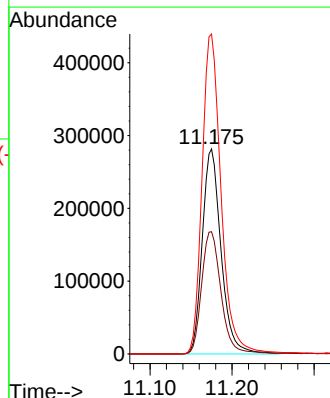
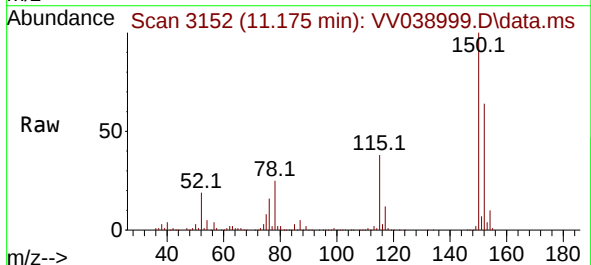
Instrument :
MSVOA_V
ClientSampleId :

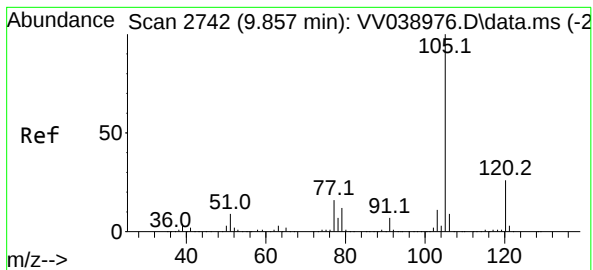
Tgt Ion: 91 Resp: 17096
Ion Ratio Lower Upper
91 100
106 34.8 24.6 36.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion:152 Resp: 448609
Ion Ratio Lower Upper
152 100
115 61.3 42.5 127.5
150 158.7 0.0 344.8





#73

Isopropylbenzene

Concen: 0.263 ug/l

RT: 9.866 min Scan# 21

Delta R.T. 0.010 min

Lab File: VV038999.D

Acq: 21 Aug 2025 22:11

Instrument :

MSVOA_V

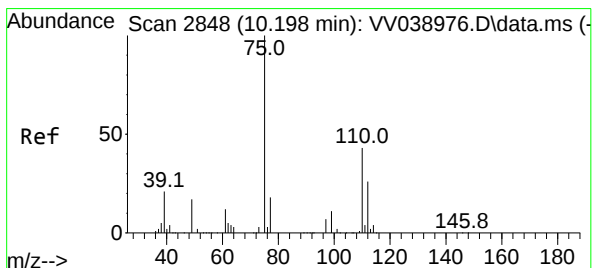
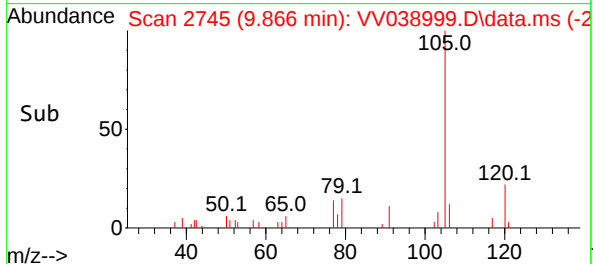
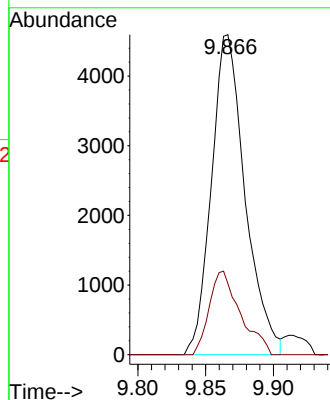
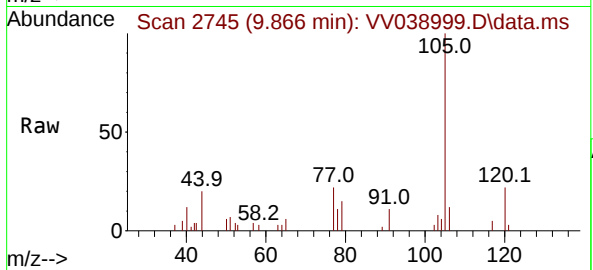
ClientSampleId :

Tgt Ion:105 Resp: 7927

Ion Ratio Lower Upper

105 100

120 24.1 13.1 39.1



#76

1,2,3-Trichloropropane

Concen: 28.311 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV038999.D

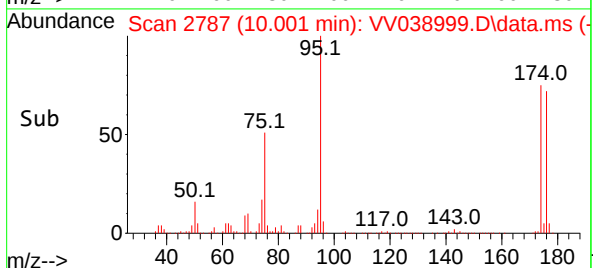
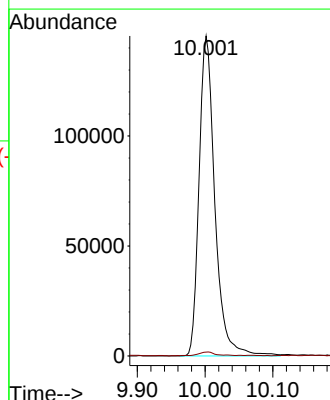
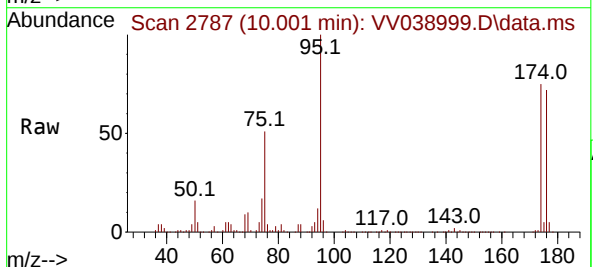
Acq: 21 Aug 2025 22:11

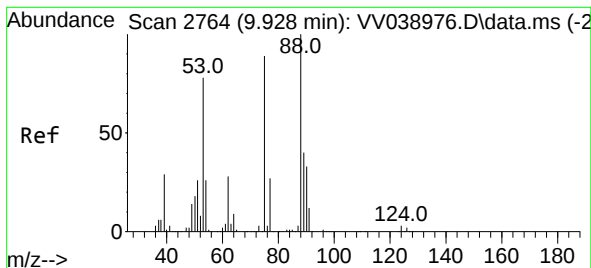
Tgt Ion: 75 Resp: 235581

Ion Ratio Lower Upper

75 100

77 1.1 11.3 33.8#

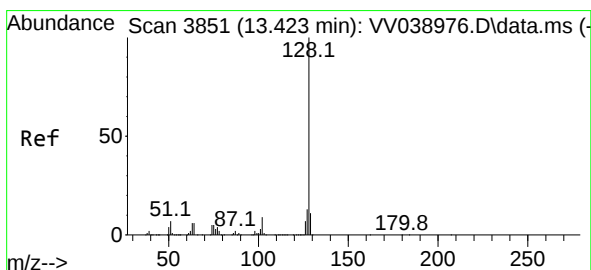
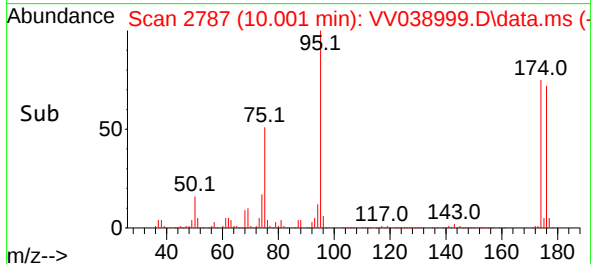
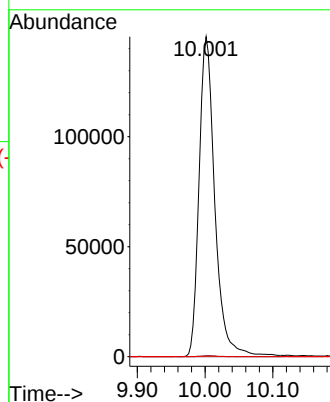
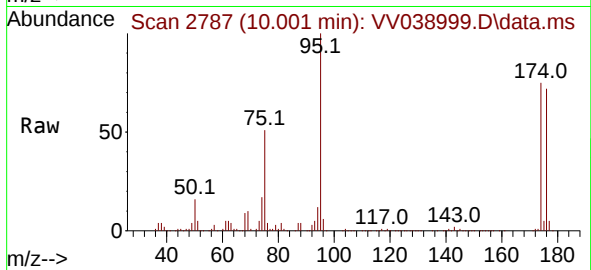




#81
trans-1,4-Dichloro-2-butene
Concen: 64.999 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 235581
Ion Ratio Lower Upper
75 100
53 0.3 70.3 105.5#
89 0.0 37.9 56.9#



#95
Naphthalene
Concen: 6.549 ug/l
RT: 13.429 min Scan# 3853
Delta R.T. 0.006 min
Lab File: VV038999.D
Acq: 21 Aug 2025 22:11

Tgt Ion:128 Resp: 179613
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 11.1 8.5 12.7

