

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW082125\
 Data File : VW038987.D
 Acq On : 21 Aug 2025 17:52
 Operator : SY/MD
 Sample : Q2929-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:34:38 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)

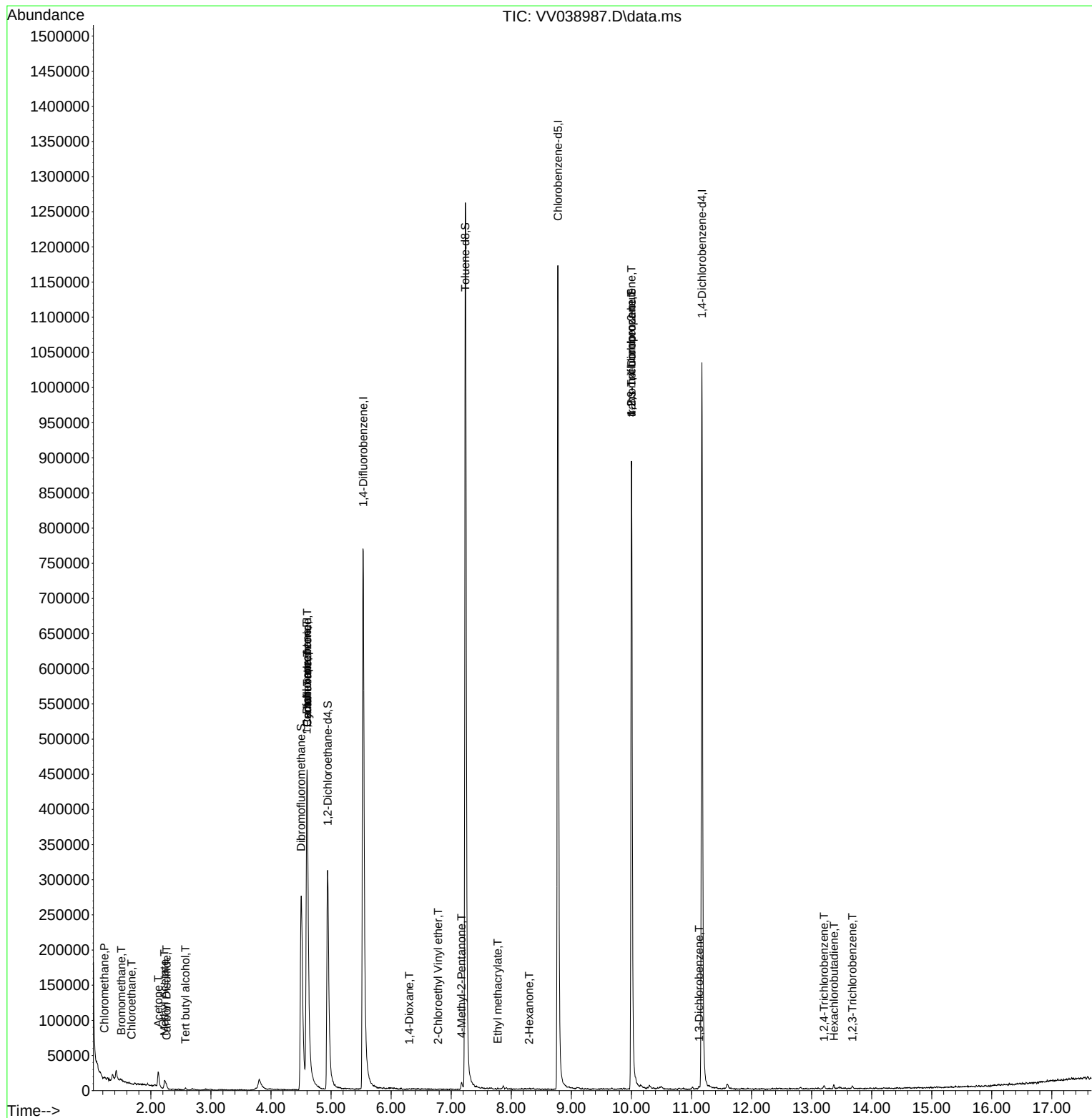
Internal Standards						
1) Pentafluorobenzene	4.603	168	403163	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	772384	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	680413	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	276053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	286243	50.599	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	101.200%
35) Dibromofluoromethane	4.503	113	234606	40.502	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	81.000%
50) Toluene-d8	7.236	98	895038	44.312	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	88.620%#
62) 4-Bromofluorobenzene	10.001	95	305062	41.285	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	82.560%#
Target Compounds						
						Qvalue
3) Chloromethane	1.227	50	1546	0.248	ug/l #	58
5) Bromomethane	1.506	94	820	0.231	ug/l	96
6) Chloroethane	1.677	64	1036	0.310	ug/l #	47
11) Tert butyl alcohol	2.574	59	861	1.125	ug/l #	73
13) Acrolein	2.005	56	208	Below Cal		87
16) Acetone	2.124	43	25404	11.189	ug/l	95
17) Carbon Disulfide	2.262	76	5007	0.393	ug/l	97
18) Methyl Acetate	2.227	43	5005	1.040	ug/l #	45
28) Bromochloromethane	4.227	49	21	Below Cal	#	3
31) Cyclohexane	4.603	56	8026	1.012	ug/l #	12
36) 1,1-Dichloropropene	4.596	75	33601	4.467	ug/l #	46
38) Carbon Tetrachloride	4.603	117	40138	3.984	ug/l #	16
49) 1,4-Dioxane	6.301	88	41	0.488	ug/l #	73
51) 4-Methyl-2-Pentanone	7.172	43	6781	0.921	ug/l	95
56) Ethyl methacrylate	7.773	69	42	2.319	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.783	63	52	4.996	ug/l #	43
59) 2-Hexanone	8.297	43	193	10.921	ug/l	92
76) 1,2,3-Trichloropropane	10.001	75	155714	30.410	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	155714	69.819	ug/l #	14
87) 1,3-Dichlorobenzene	11.127	146	1980	0.211	ug/l	92
93) 1,2,4-Trichlorobenzene	13.210	180	1369	0.256	ug/l	94
94) Hexachlorobutadiene	13.374	225	777	0.282	ug/l #	76
96) 1,2,3-Trichlorobenzene	13.680	180	1103	0.205	ug/l	88

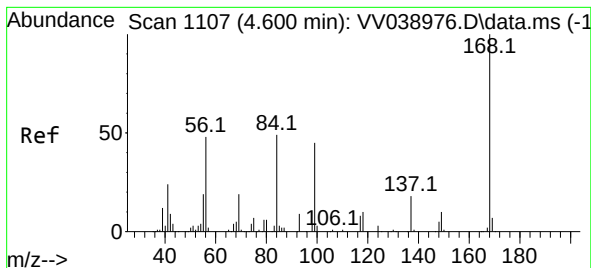
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
Data File : VV038987.D
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Quant Time: Aug 22 04:34:38 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.603 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

Instrument :

MSVOA_V

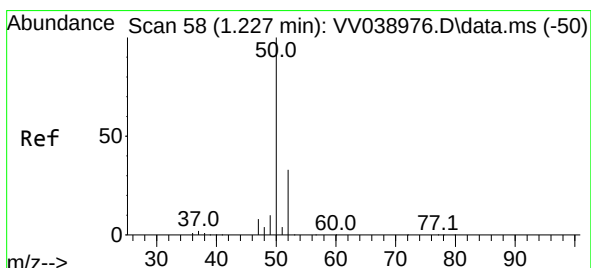
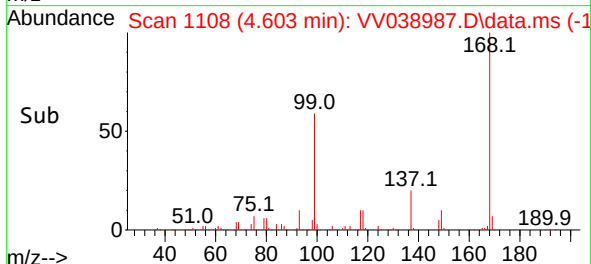
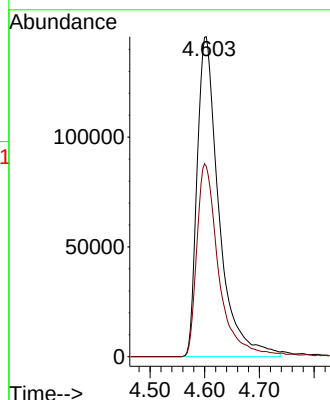
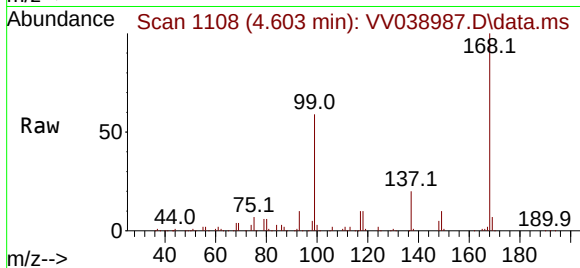
ClientSampleId :

Tgt Ion:168 Resp: 403163

Ion Ratio Lower Upper

168 100

99 59.5 47.0 70.6



#3

Chloromethane

Concen: 0.248 ug/l

RT: 1.227 min Scan# 58

Delta R.T. -0.000 min

Lab File: VV038987.D

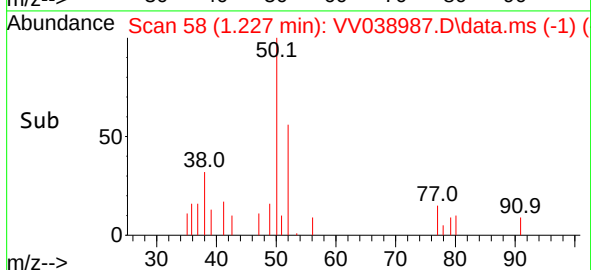
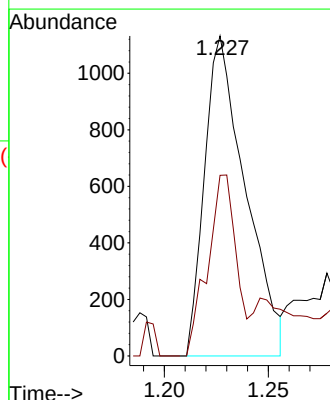
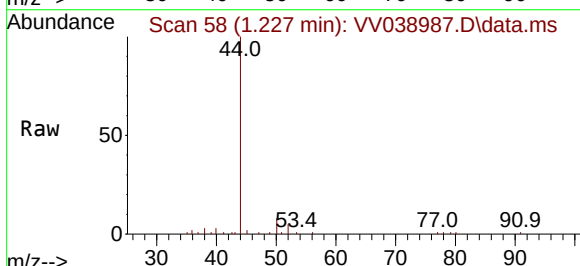
Acq: 21 Aug 2025 17:52

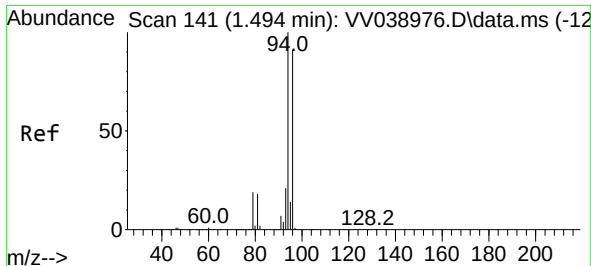
Tgt Ion: 50 Resp: 1546

Ion Ratio Lower Upper

50 100

52 56.4 26.2 39.2#

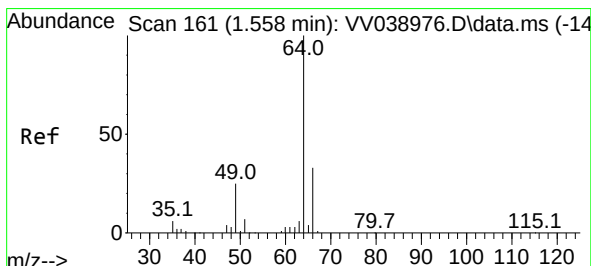
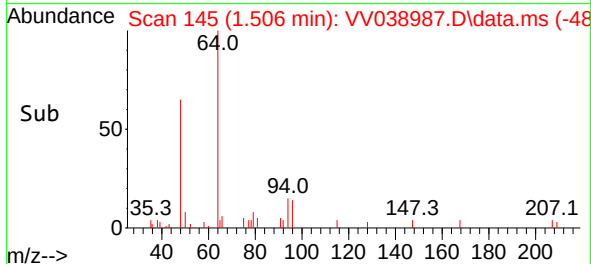
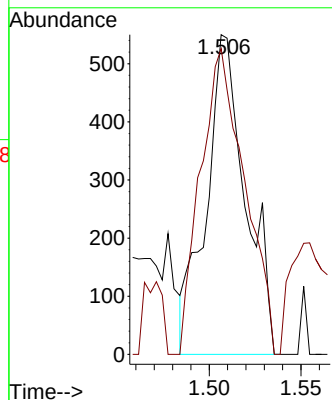
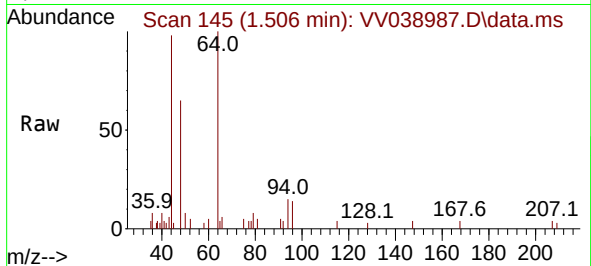




#5
Bromomethane
Concen: 0.231 ug/l
RT: 1.506 min Scan# 141
Delta R.T. 0.013 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

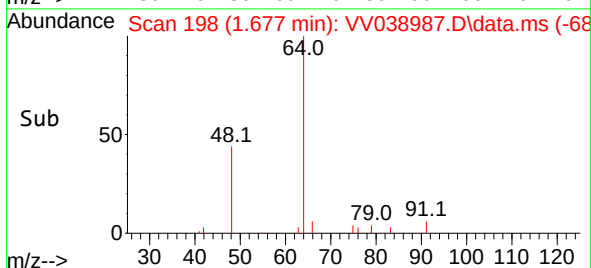
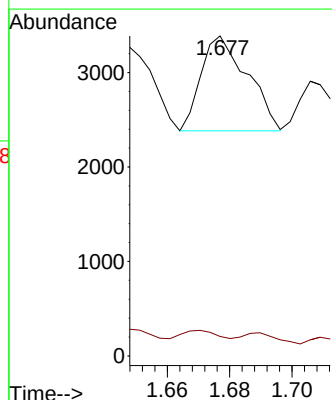
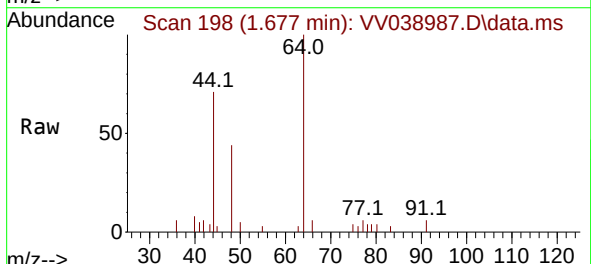
Instrument :
MSVOA_V
ClientSampleId :

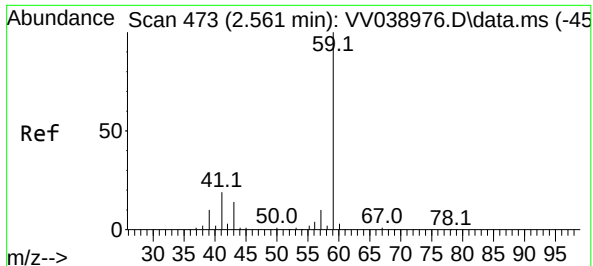
Tgt Ion: 94 Resp: 820
Ion Ratio Lower Upper
94 100
96 95.6 73.1 109.7



#6
Chloroethane
Concen: 0.310 ug/l
RT: 1.677 min Scan# 198
Delta R.T. 0.119 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

Tgt Ion: 64 Resp: 1036
Ion Ratio Lower Upper
64 100
66 3.6 26.8 40.2#





#11

Tert butyl alcohol

Concen: 1.125 ug/l

RT: 2.574 min Scan# 41

Delta R.T. 0.013 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

Instrument :

MSVOA_V

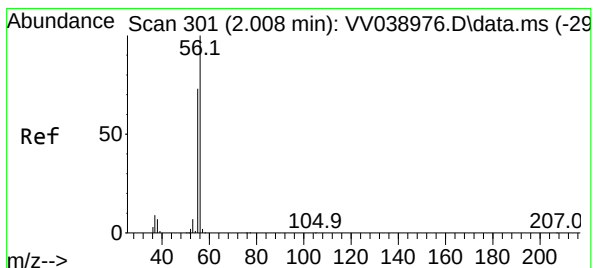
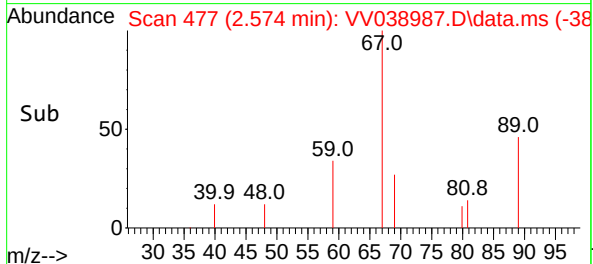
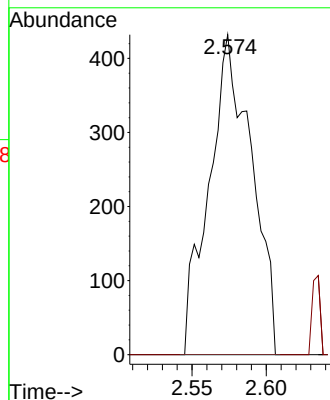
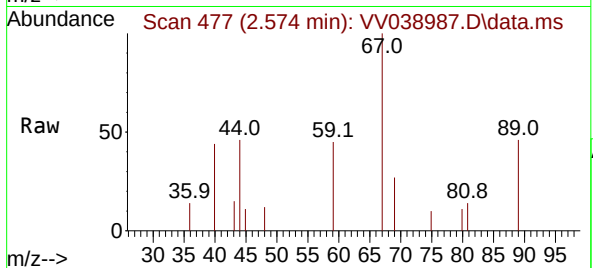
ClientSampleId :

Tgt Ion: 59 Resp: 861

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#13

Acrolein

Concen: Below Cal

RT: 2.005 min Scan# 300

Delta R.T. -0.003 min

Lab File: VV038987.D

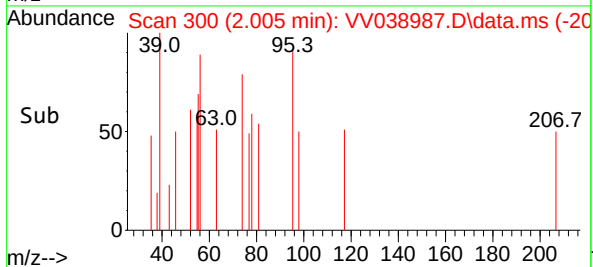
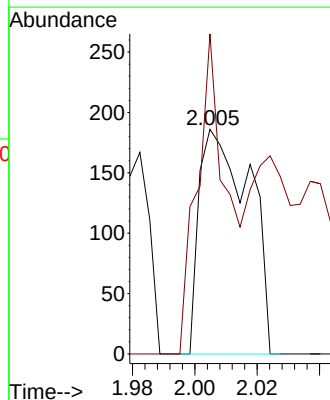
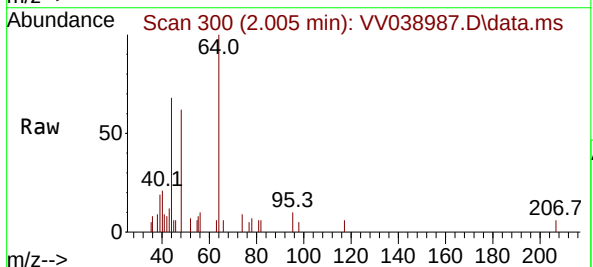
Acq: 21 Aug 2025 17:52

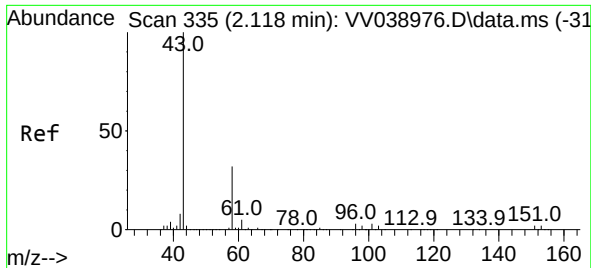
Tgt Ion: 56 Resp: 208

Ion Ratio Lower Upper

56 100

55 84.1 58.8 88.2





#16

Acetone

Concen: 11.189 ug/l

RT: 2.124 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

Instrument :

MSVOA_V

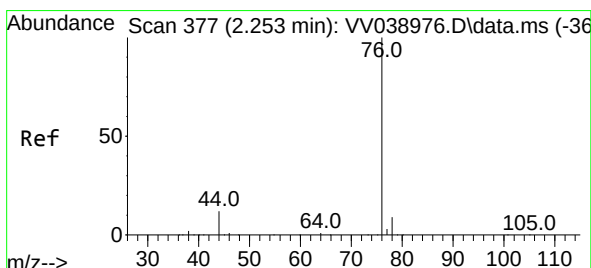
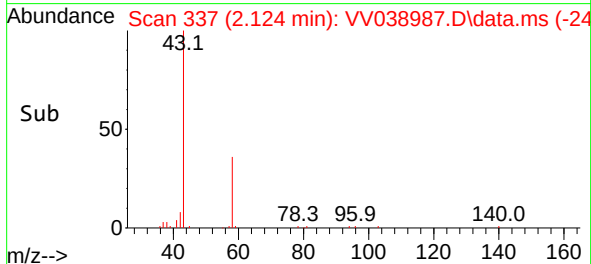
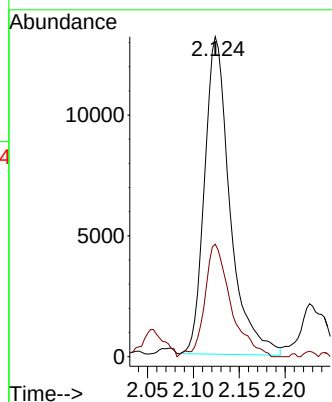
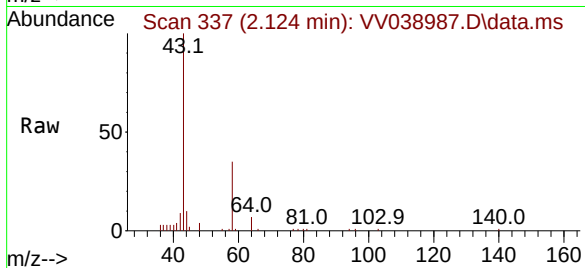
ClientSampleId :

Tgt Ion: 43 Resp: 25404

Ion Ratio Lower Upper

43 100

58 35.5 26.3 39.5



#17

Carbon Disulfide

Concen: 0.393 ug/l

RT: 2.262 min Scan# 380

Delta R.T. 0.009 min

Lab File: VV038987.D

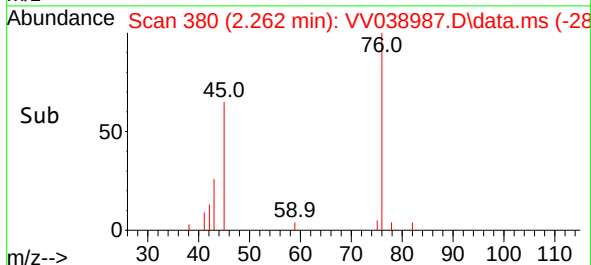
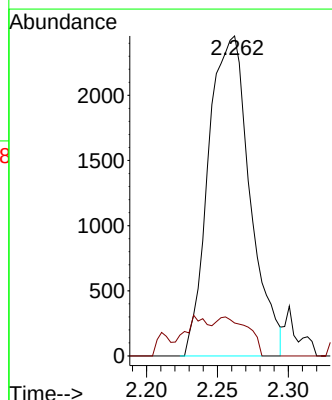
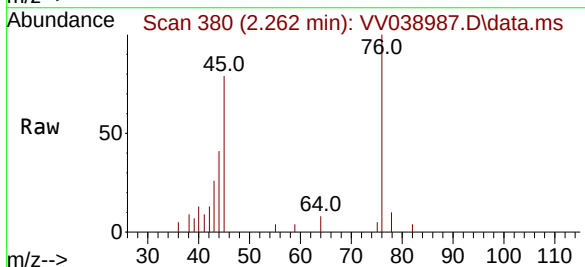
Acq: 21 Aug 2025 17:52

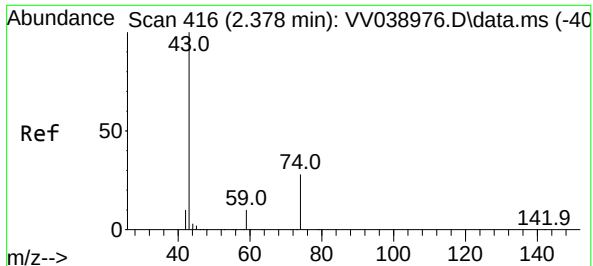
Tgt Ion: 76 Resp: 5007

Ion Ratio Lower Upper

76 100

78 10.3 7.3 10.9

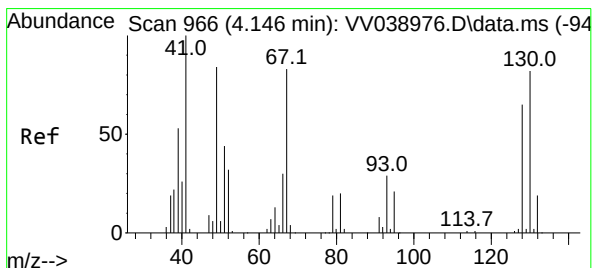
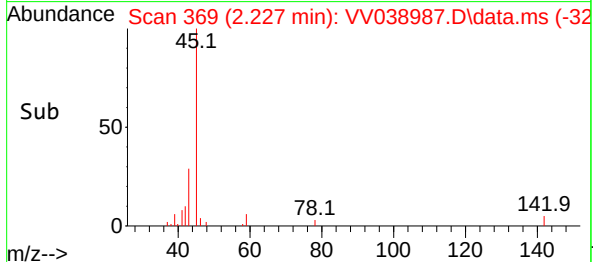
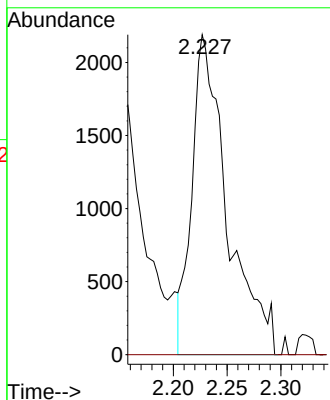
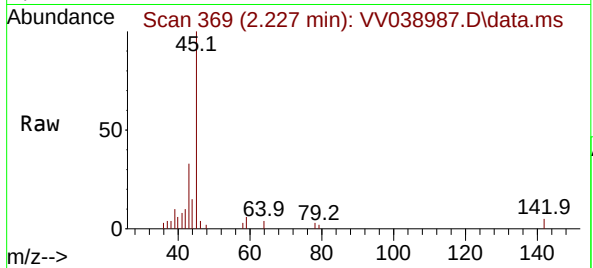




#18
Methyl Acetate
Concen: 1.040 ug/l
RT: 2.227 min Scan# 30
Delta R.T. -0.151 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

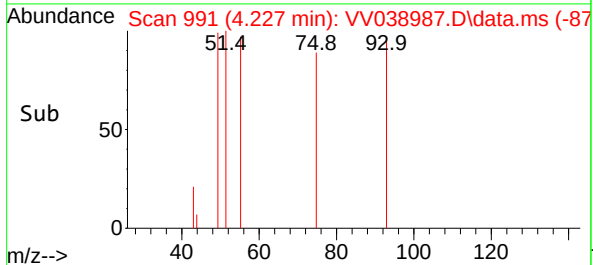
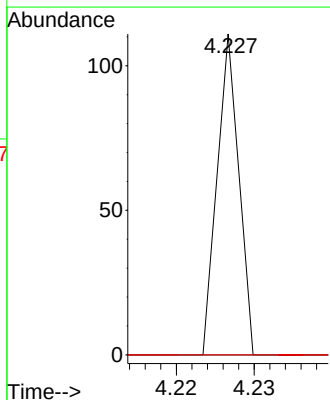
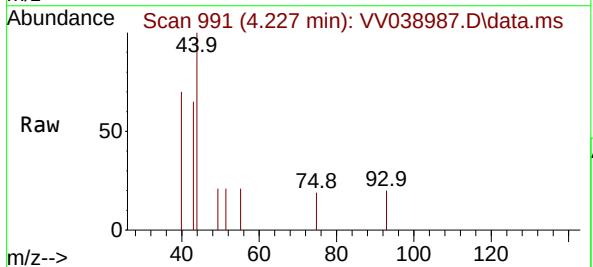
Instrument :
MSVOA_V
ClientSampleId :

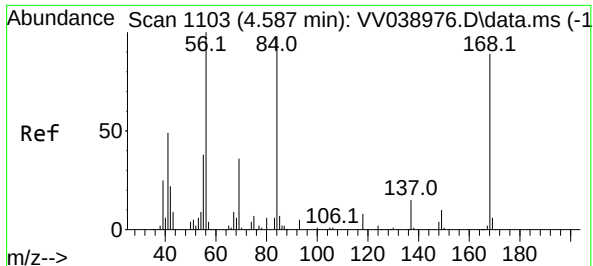
Tgt Ion: 43 Resp: 5005
Ion Ratio Lower Upper
43 100
74 0.0 23.5 35.3#



#28
Bromochloromethane
Concen: Below Cal
RT: 4.227 min Scan# 991
Delta R.T. 0.081 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

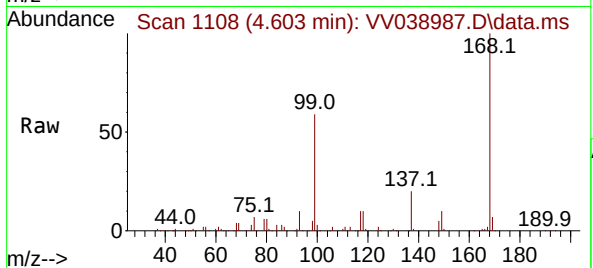
Tgt Ion: 49 Resp: 21
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 78.2 117.2#



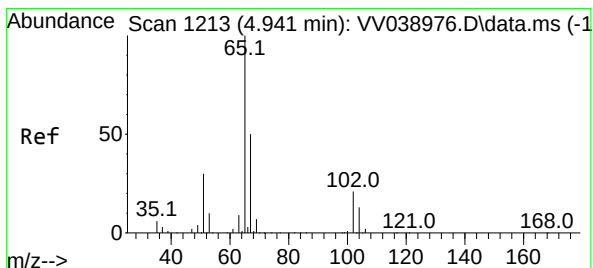
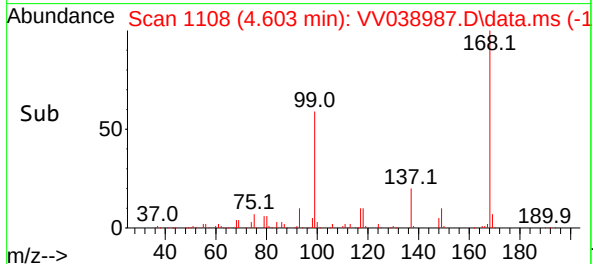
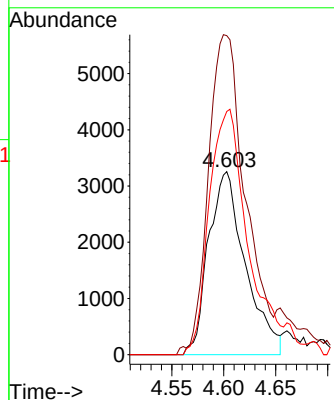


#31
Cyclohexane
Concen: 1.012 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.016 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

Instrument :
MSVOA_V
ClientSampleId :

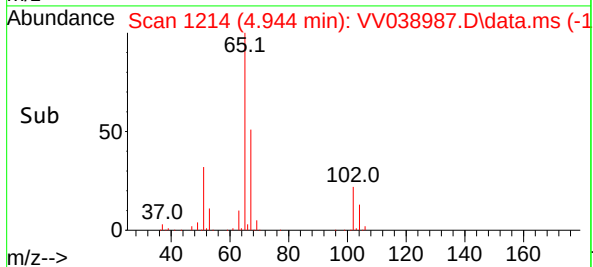
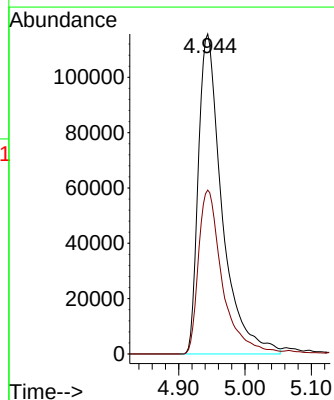
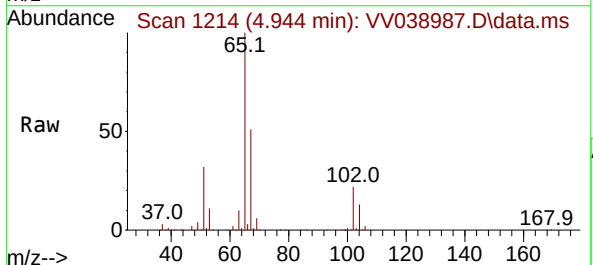


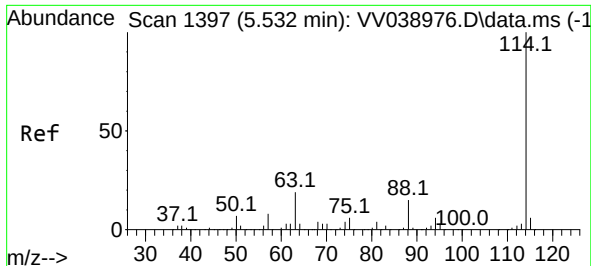
Tgt Ion: 56 Resp: 8026
Ion Ratio Lower Upper
56 100
69 170.8 28.6 42.8#
84 132.9 78.1 117.1#



#33
1,2-Dichloroethane-d4
Concen: 50.599 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.003 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

Tgt Ion: 65 Resp: 286243
Ion Ratio Lower Upper
65 100
67 51.9 0.0 100.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

Instrument :

MSVOA_V

ClientSampleId :

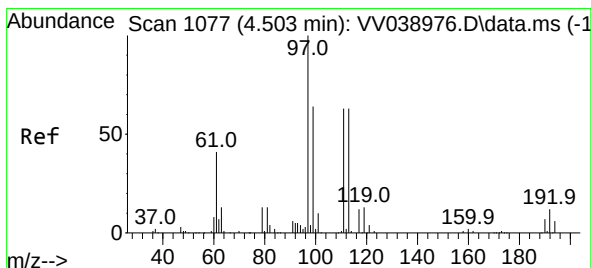
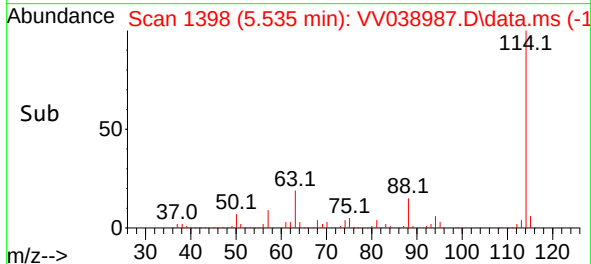
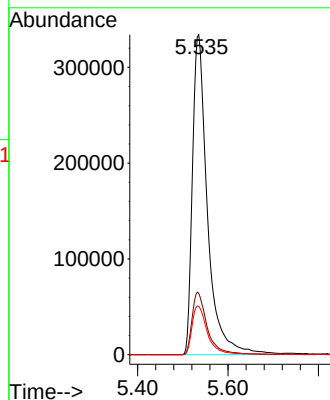
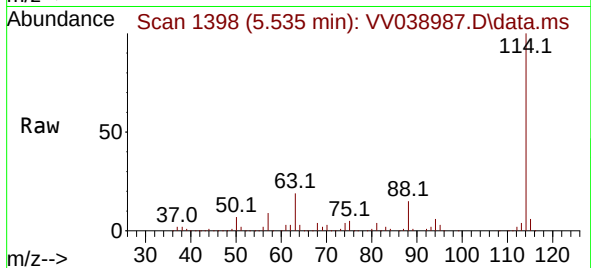
Tgt Ion:114 Resp: 772384

Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.4

88 15.0 0.0 30.4



#35

Dibromofluoromethane

Concen: 40.502 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. -0.000 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

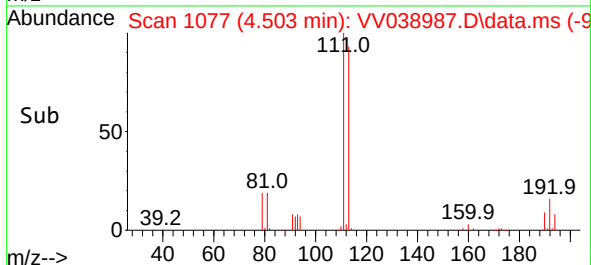
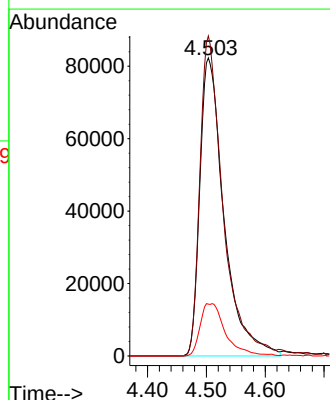
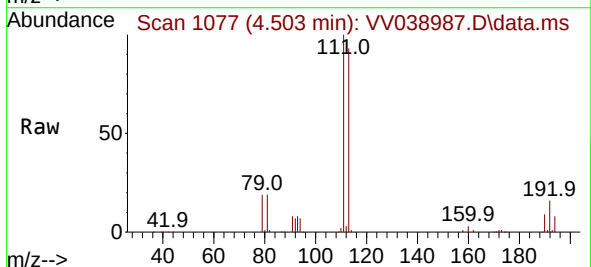
Tgt Ion:113 Resp: 234606

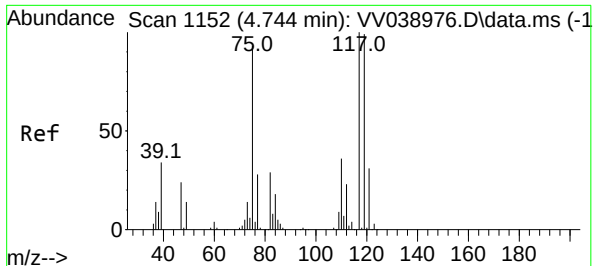
Ion Ratio Lower Upper

113 100

111 102.5 81.3 121.9

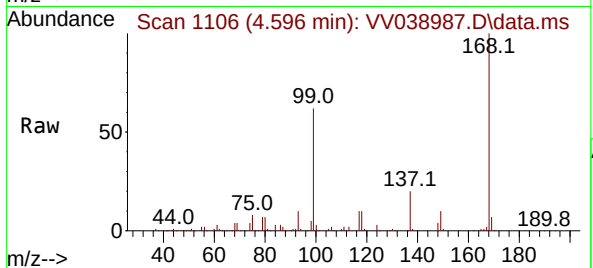
192 18.5 15.4 23.0



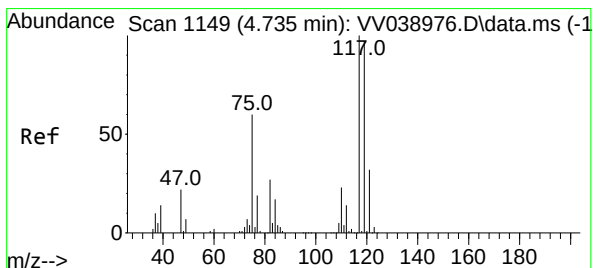
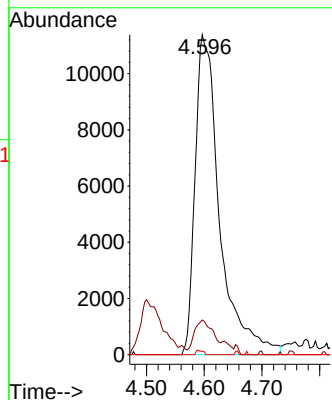
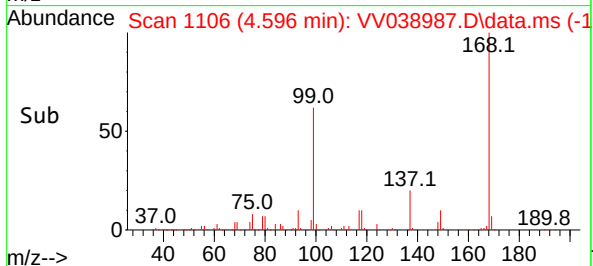


#36
 1,1-Dichloropropene
 Concen: 4.467 ug/l
 RT: 4.596 min Scan# 1106
 Delta R.T. -0.148 min
 Lab File: VV038987.D
 Acq: 21 Aug 2025 17:52

Instrument :
 MSVOA_V
 ClientSampleId :

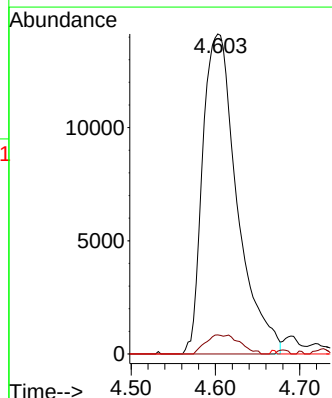
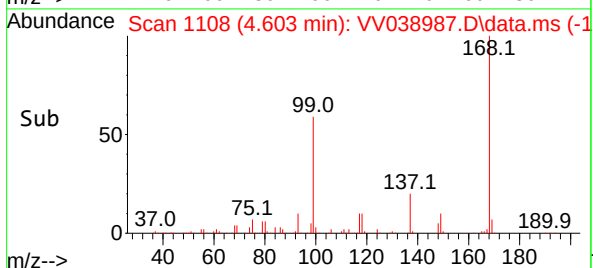
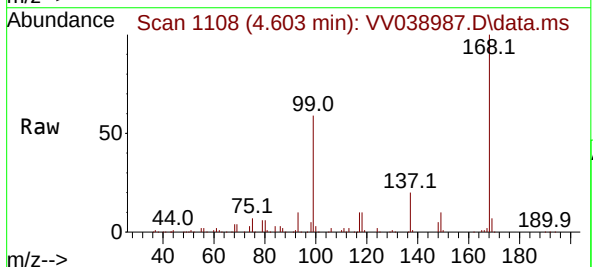


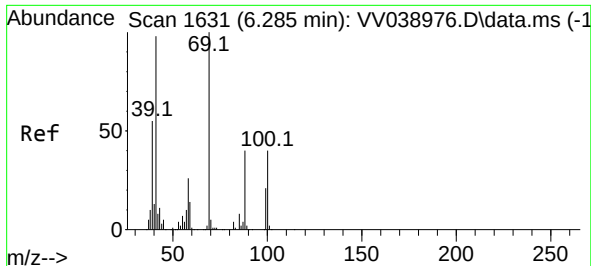
Tgt Ion: 75 Resp: 33601
 Ion Ratio Lower Upper
 75 100
 110 6.7 19.6 58.7#
 77 0.4 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 3.984 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.132 min
 Lab File: VV038987.D
 Acq: 21 Aug 2025 17:52

Tgt Ion: 117 Resp: 40138
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.1 115.7#
 121 0.0 25.4 38.2#





#49

1,4-Dioxane

Concen: 0.488 ug/l

RT: 6.301 min Scan# 1

Delta R.T. 0.016 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

Instrument :

MSVOA_V

ClientSampleId :

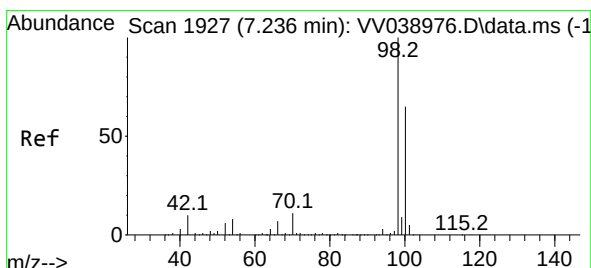
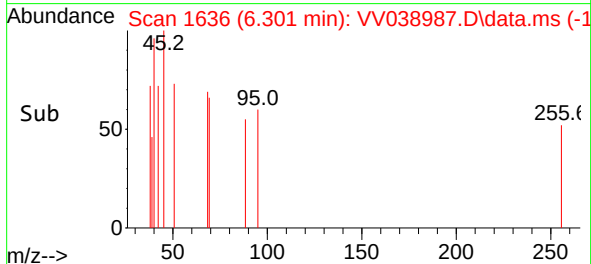
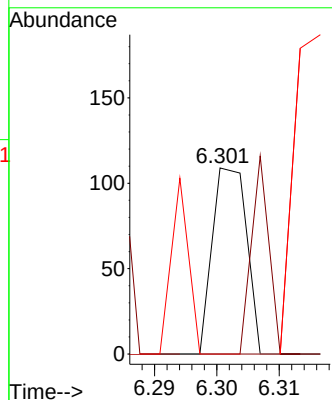
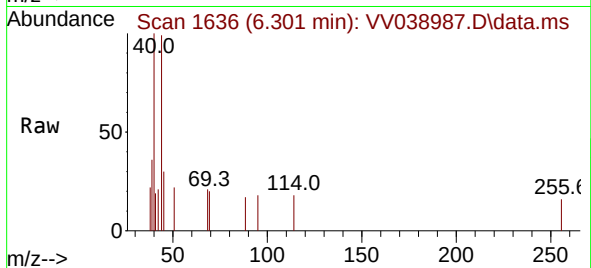
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 53.7 24.6 36.8#

58 48.8 51.8 77.6#



#50

Toluene-d8

Concen: 44.312 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. -0.000 min

Lab File: VV038987.D

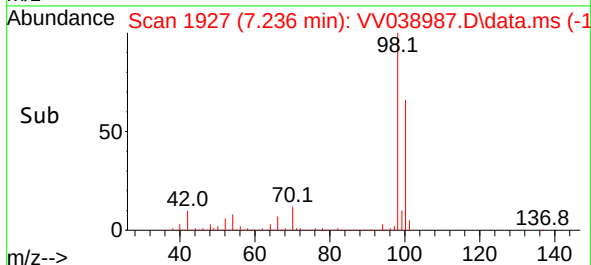
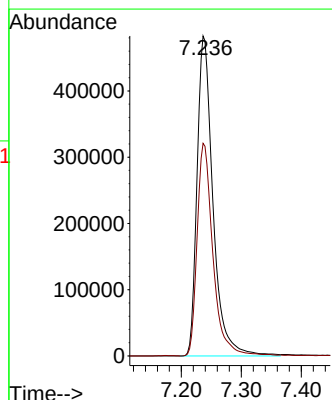
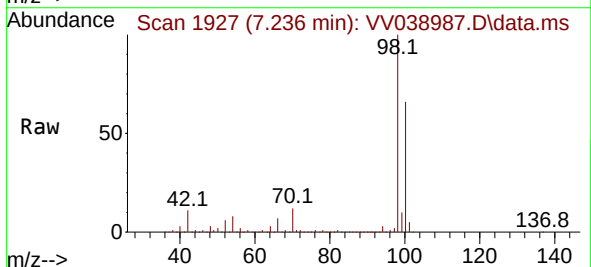
Acq: 21 Aug 2025 17:52

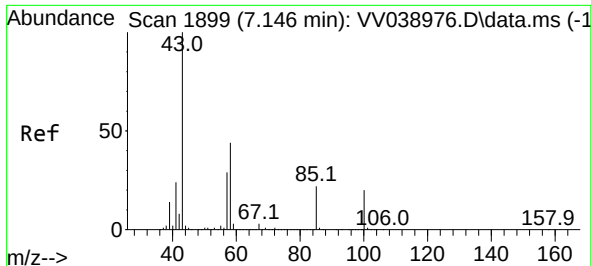
Tgt Ion: 98 Resp: 895038

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.2

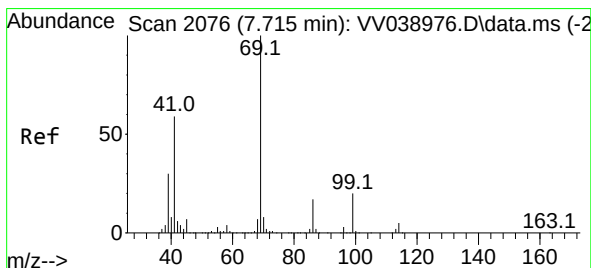
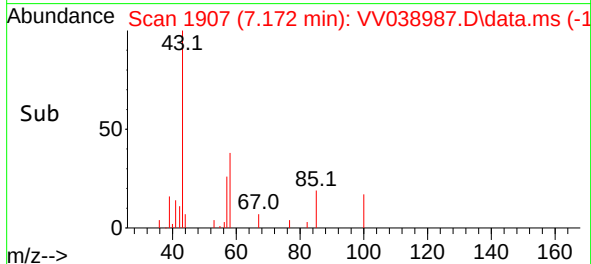
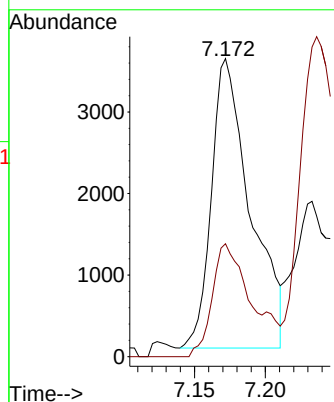
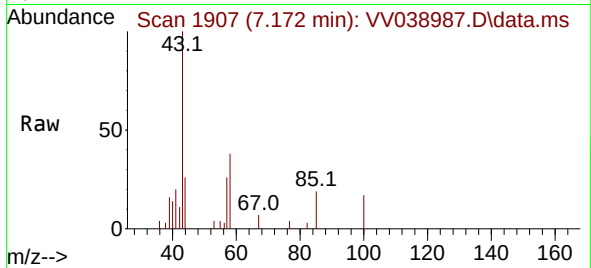




#51
4-Methyl-2-Pentanone
Concen: 0.921 ug/l
RT: 7.172 min Scan# 1907
Delta R.T. 0.026 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

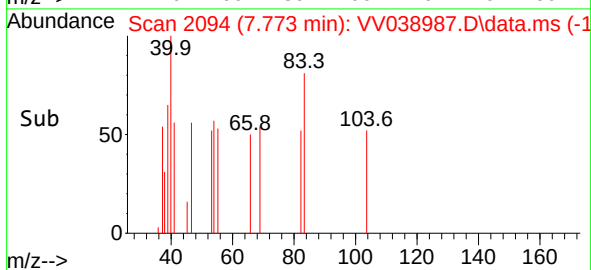
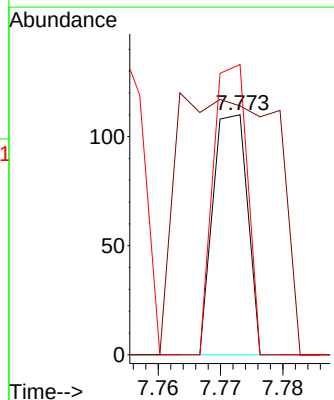
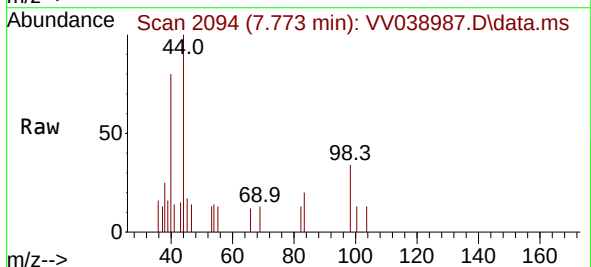
Instrument :
MSVOA_V
ClientSampleId :

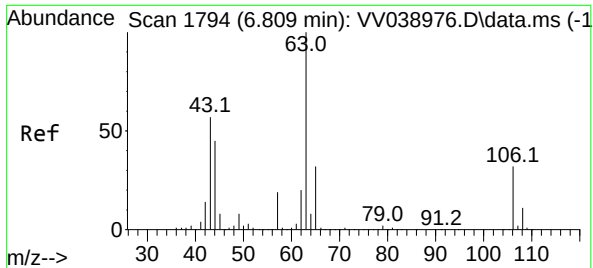
Tgt Ion: 43 Resp: 6781
Ion Ratio Lower Upper
43 100
58 39.8 34.6 51.8



#56
Ethyl methacrylate
Concen: 2.319 ug/l
RT: 7.773 min Scan# 2094
Delta R.T. 0.058 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

Tgt Ion: 69 Resp: 42
Ion Ratio Lower Upper
69 100
41 314.3 47.5 71.3#
39 121.4 24.2 36.2#

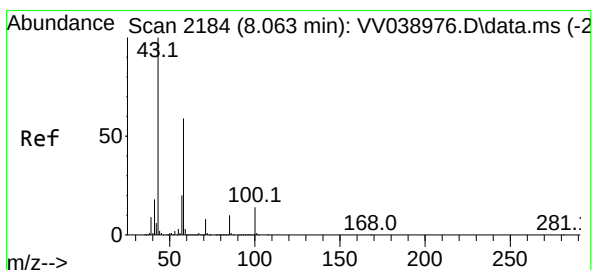
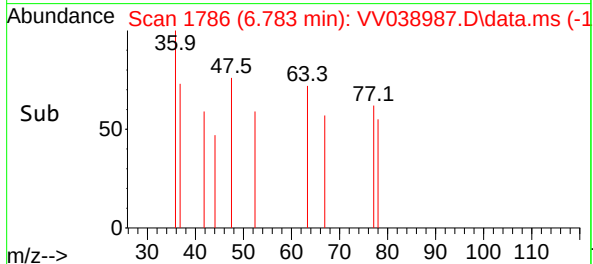
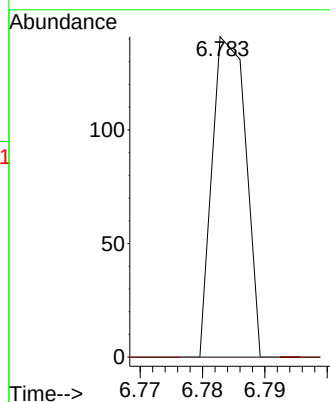
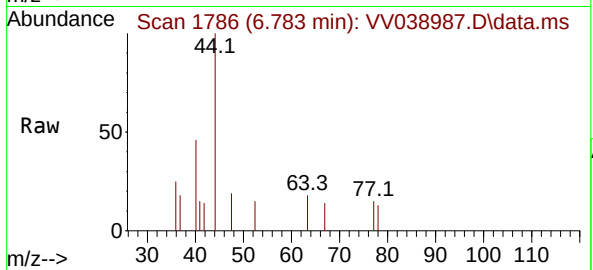




#58
2-Chloroethyl Vinyl ether
Concen: 4.996 ug/l
RT: 6.783 min Scan# 11
Delta R.T. -0.026 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

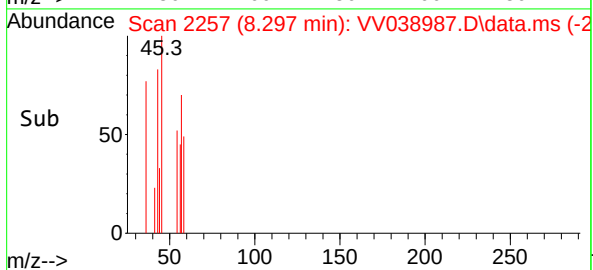
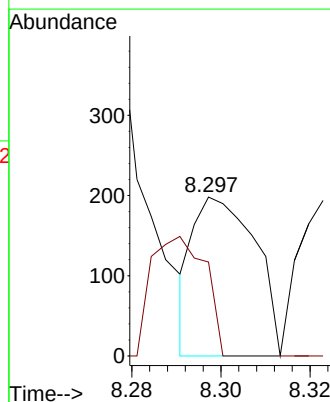
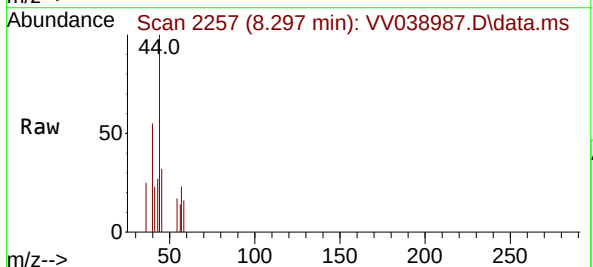
Instrument :
MSVOA_V
ClientSampleId :

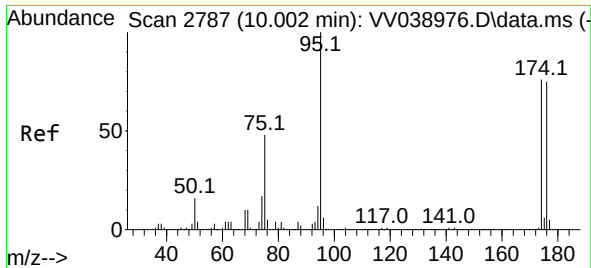
Tgt Ion: 63 Resp: 52
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 10.921 ug/l
RT: 8.297 min Scan# 2257
Delta R.T. 0.234 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

Tgt Ion: 43 Resp: 193
Ion Ratio Lower Upper
43 100
58 65.3 29.8 89.4

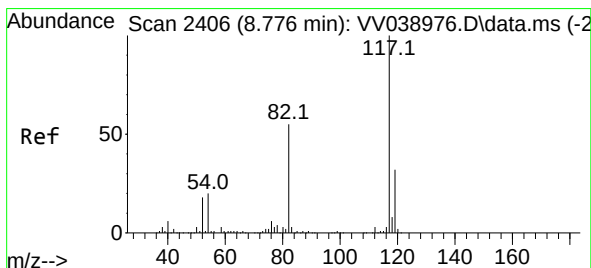
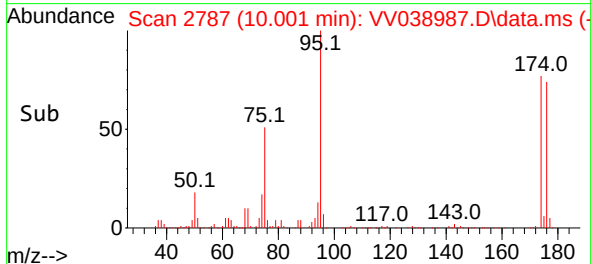
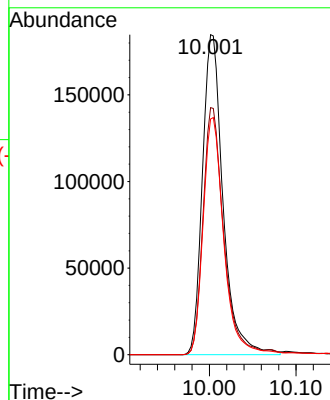
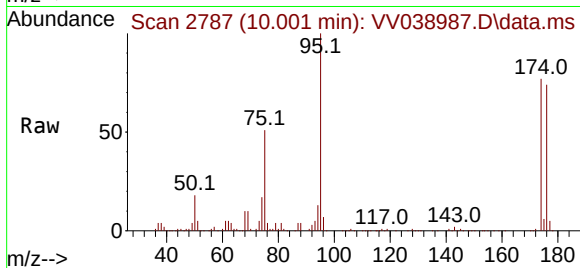




#62
4-Bromofluorobenzene
Concen: 41.285 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

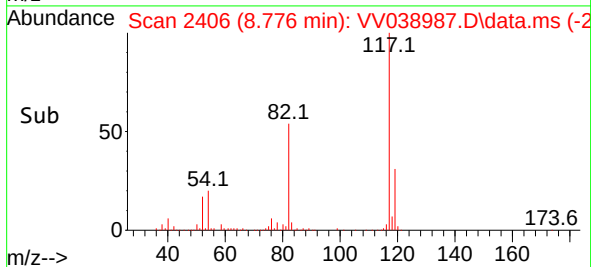
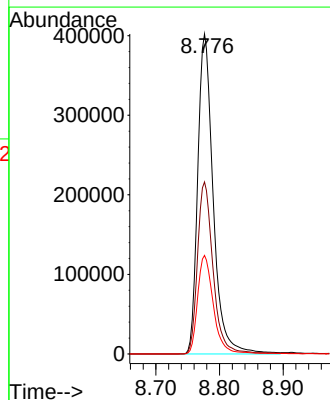
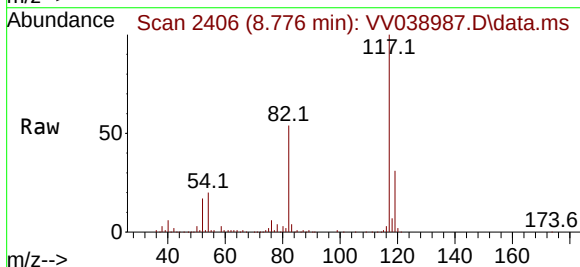
Instrument :
MSVOA_V
ClientSampleId :

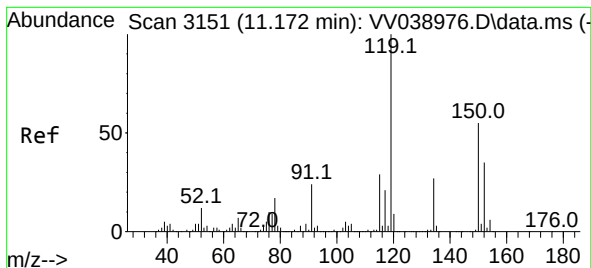
Tgt Ion: 95 Resp: 305062
Ion Ratio Lower Upper
95 100
174 77.0 0.0 154.4
176 74.4 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.000 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

Tgt Ion: 117 Resp: 680413
Ion Ratio Lower Upper
117 100
82 53.7 44.4 66.6
119 30.8 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

Instrument :

MSVOA_V

ClientSampleId :

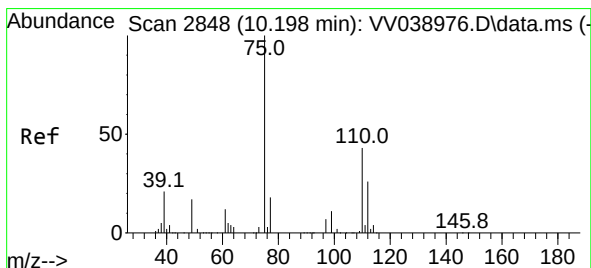
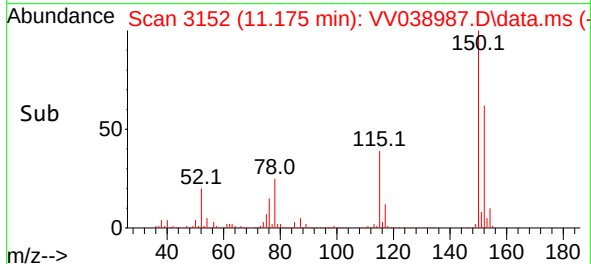
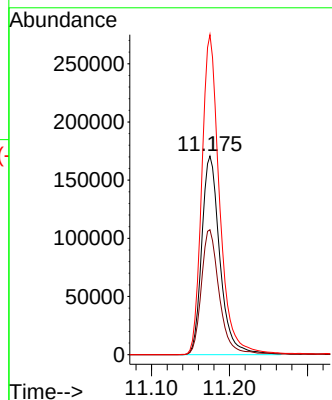
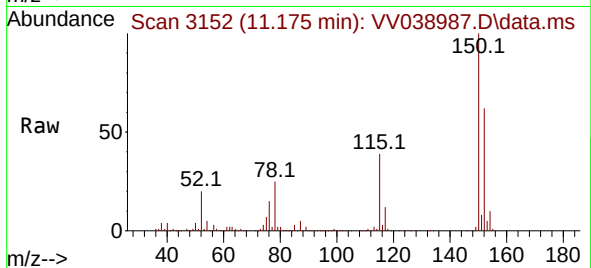
Tgt Ion:152 Resp: 276053

Ion Ratio Lower Upper

152 100

115 62.7 42.5 127.5

150 158.5 0.0 344.8



#76

1,2,3-Trichloropropane

Concen: 30.410 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV038987.D

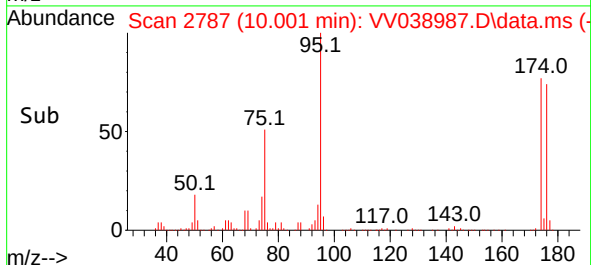
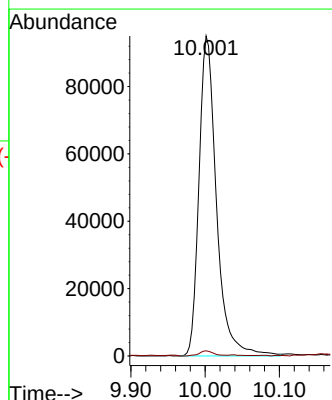
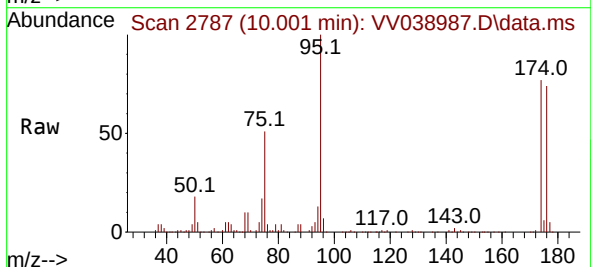
Acq: 21 Aug 2025 17:52

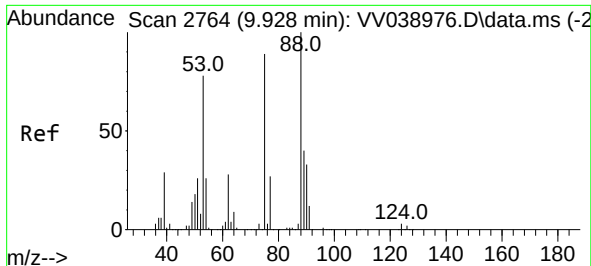
Tgt Ion: 75 Resp: 155714

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#

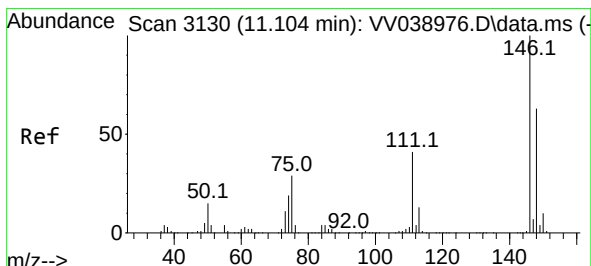
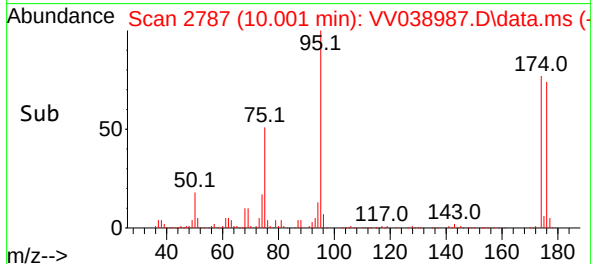
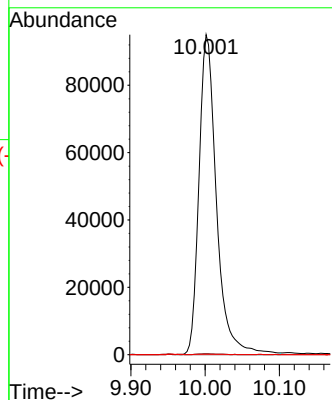
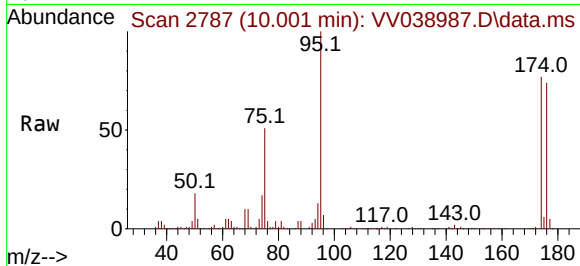




#81
trans-1,4-Dichloro-2-butene
Concen: 69.819 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

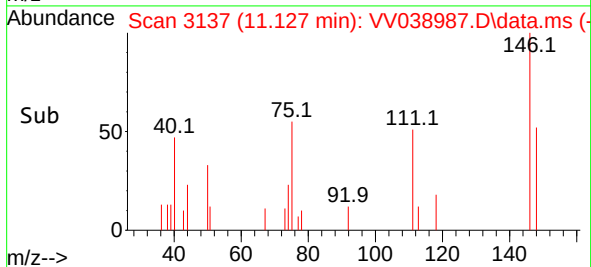
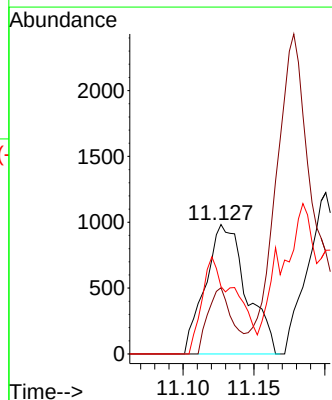
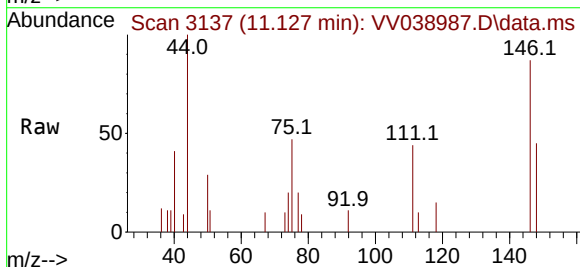
Instrument :
MSVOA_V
ClientSampleId :

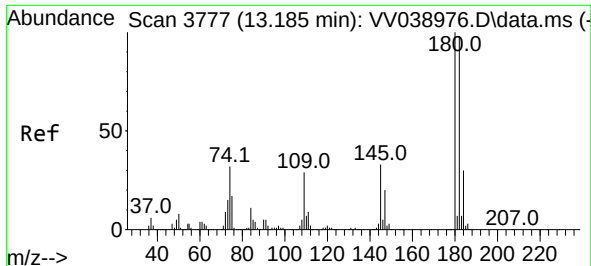
Tgt Ion: 75 Resp: 155714
Ion Ratio Lower Upper
75 100
53 0.4 70.3 105.5#
89 0.0 37.9 56.9#



#87
1,3-Dichlorobenzene
Concen: 0.211 ug/l
RT: 11.127 min Scan# 3137
Delta R.T. 0.022 min
Lab File: VV038987.D
Acq: 21 Aug 2025 17:52

Tgt Ion:146 Resp: 1980
Ion Ratio Lower Upper
146 100
111 30.2 20.5 61.6
148 62.1 31.9 95.5





#93

1,2,4-Trichlorobenzene

Concen: 0.256 ug/l

RT: 13.210 min Scan# 31

Delta R.T. 0.026 min

Lab File: VV038987.D

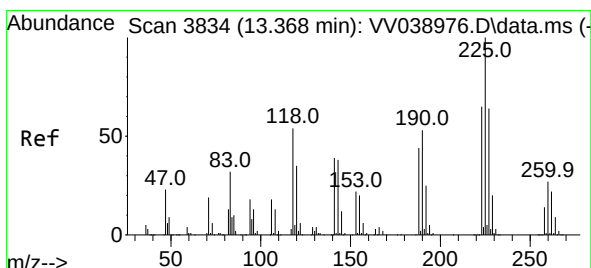
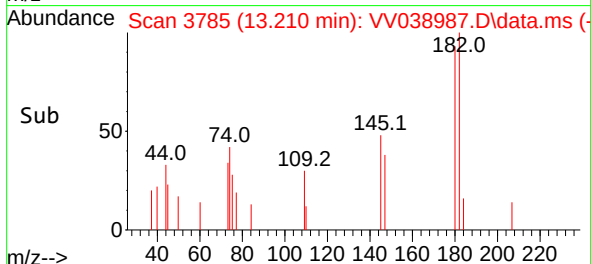
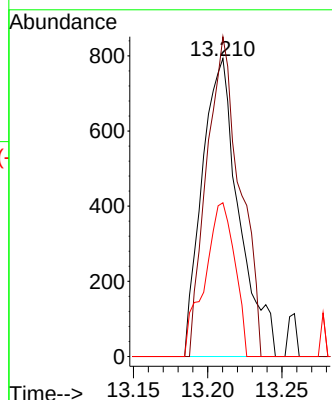
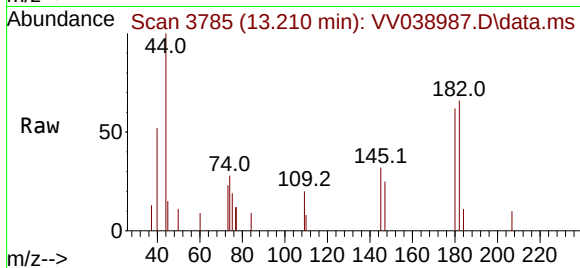
Acq: 21 Aug 2025 17:52

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:180	Resp:	1369
Ion Ratio	Lower	Upper
180	100	
182	96.8	47.3 142.0
145	42.1	16.3 48.8



#94

Hexachlorobutadiene

Concen: 0.282 ug/l

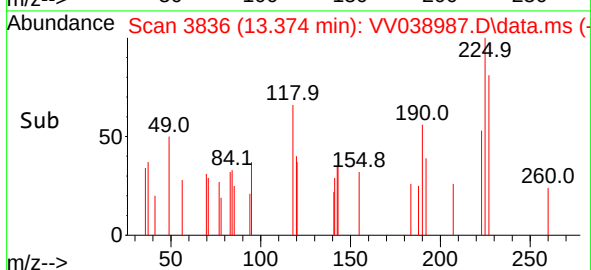
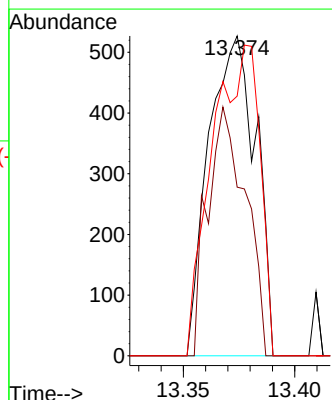
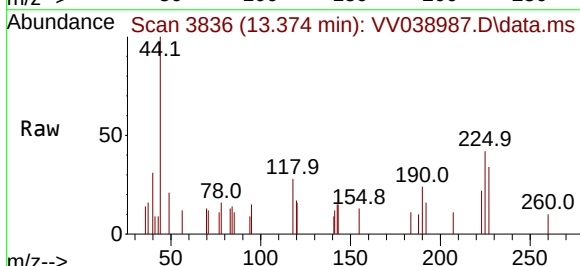
RT: 13.374 min Scan# 3836

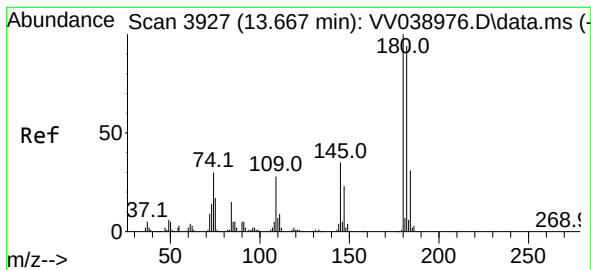
Delta R.T. 0.006 min

Lab File: VV038987.D

Acq: 21 Aug 2025 17:52

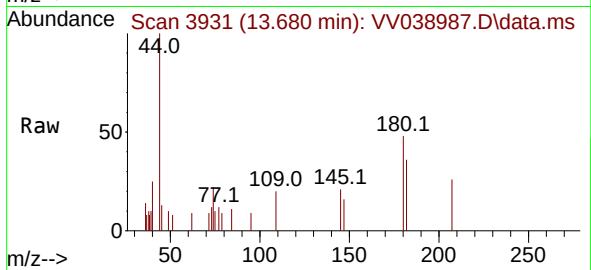
Tgt Ion:225	Resp:	777
Ion Ratio	Lower	Upper
225	100	
223	62.8	31.9 95.7
227	98.1	30.8 92.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.205 ug/l
 RT: 13.680 min Scan# 3931
 Delta R.T. 0.013 min
 Lab File: VV038987.D
 Acq: 21 Aug 2025 17:52

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	180	Resp:	1103
Ion	Ratio	Lower	Upper
180	100		
182	105.2	47.0	141.0
145	26.2	17.3	52.0

