

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039247.D
 Acq On : 03 Oct 2025 14:19
 Operator : SY/MD
 Sample : Q3263-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 251818

Quant Time: Oct 04 01:10:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.603	168	572605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	991649	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	986156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	488269	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	393786	47.517	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	95.040%		
35) Dibromofluoromethane	4.500	113	371771	46.634	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	93.260%		
50) Toluene-d8	7.236	98	937628	40.046	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	80.100%#		
62) 4-Bromofluorobenzene	10.001	95	390260	40.488	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	80.980%#		
Target Compounds						
					Qvalue	
6) Chloroethane	1.555	64	56	Below Cal	#	55
10) Methyl Iodide	2.204	142	2060	0.241	ug/l	99
11) Tert butyl alcohol	2.571	59	2839	1.621	ug/l #	86
13) Acrolein	2.021	56	199	0.655	ug/l #	1
16) Acetone	2.127	43	10757	Below Cal		98
18) Methyl Acetate	2.227	43	24539	1.998	ug/l #	53
20) Methylene Chloride	2.458	84	2396	Below Cal		89
25) 2-Butanone	3.818	43	2568	0.387	ug/l #	67
26) 2,2-Dichloropropane	3.815	77	4865	0.304	ug/l #	52
30) Chloroform	4.285	83	15150	0.804	ug/l	91
31) Cyclohexane	4.603	56	13381	0.905	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	46266	3.839	ug/l #	50
38) Carbon Tetrachloride	4.600	117	60215	4.088	ug/l #	17
41) Methacrylonitrile	4.162	41	95	1.924	ug/l #	1
47) Bromodichloromethane	6.442	83	16189	1.049	ug/l #	95
49) 1,4-Dioxane	6.314	88	46	0.315	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.815	63	137	9.642	ug/l #	47
59) 2-Hexanone	7.966	43	64	2.332	ug/l	90
60) Dibromochloromethane	8.175	129	25784	2.218	ug/l	100
70) Styrene	9.535	104	21	1.562	ug/l #	1
71) Bromoform	9.661	173	16517	2.130	ug/l #	95
76) 1,2,3-Trichloropropane	10.001	75	186991	16.820	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	186991	40.380	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.390	75	64	Below Cal	#	5

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

Quant Time: Oct 04 01:10:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.006 min

Lab File: VV039247.D

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MSVOA_V

ClientSampleId :

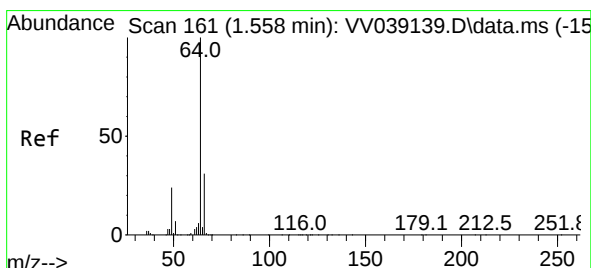
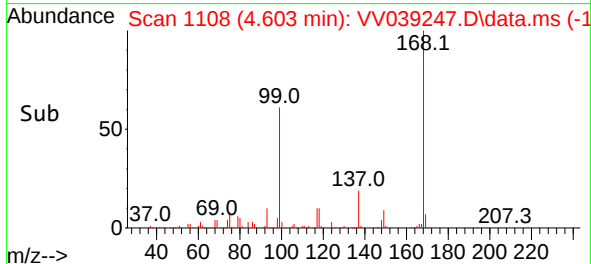
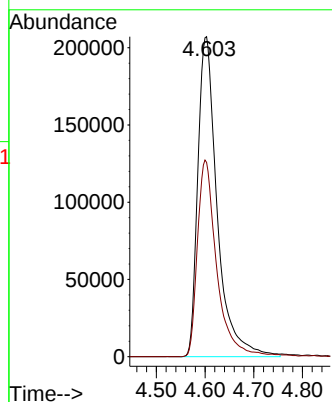
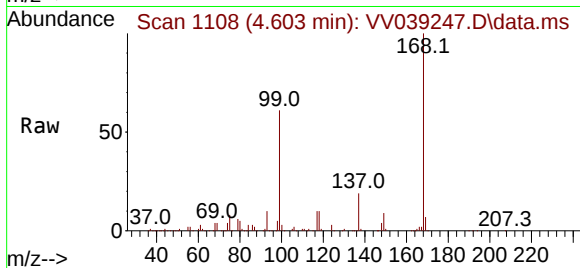
251818

Tgt Ion:168 Resp: 572605

Ion Ratio Lower Upper

168 100

99 60.7 49.6 74.4



#6

Chloroethane

Concen: Below Cal

RT: 1.555 min Scan# 160

Delta R.T. -0.003 min

Lab File: VV039247.D

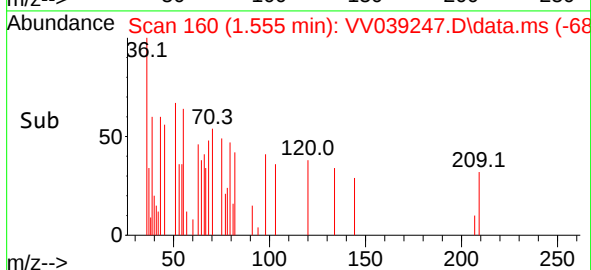
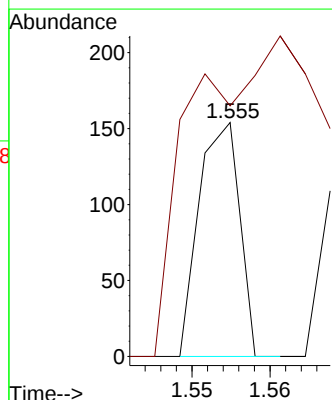
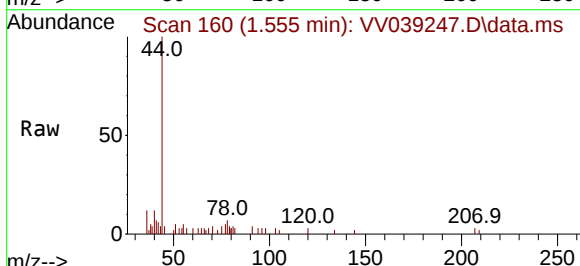
Acq: 03 Oct 2025 14:19

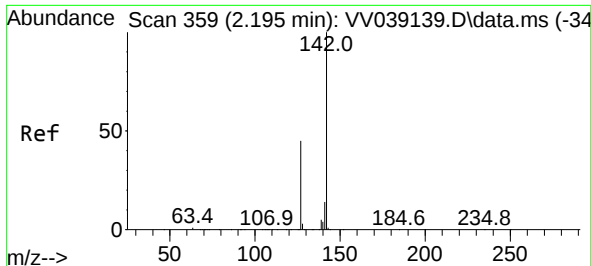
Tgt Ion: 64 Resp: 56

Ion Ratio Lower Upper

64 100

66 5.8 24.6 36.8#

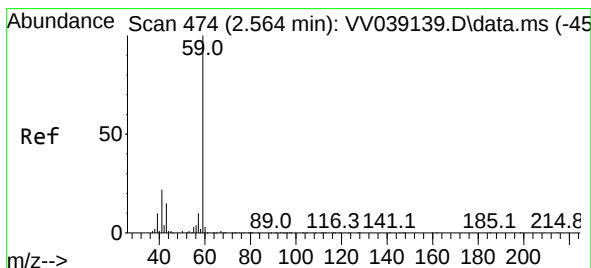
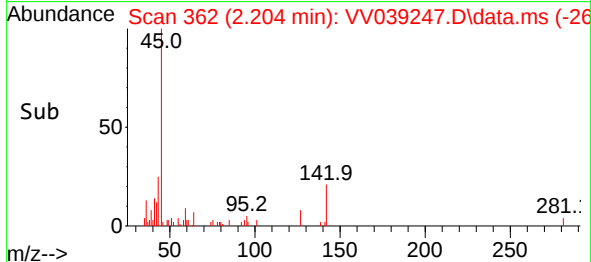
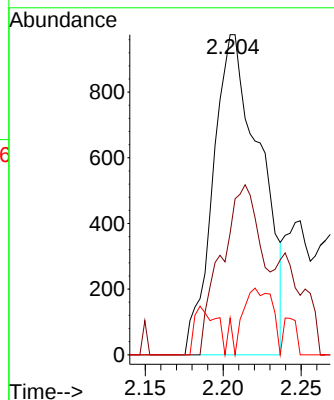
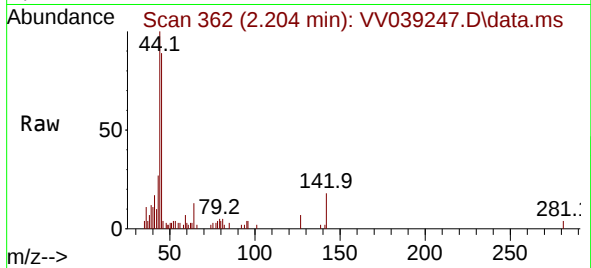




#10
Methyl Iodide
Concen: 0.241 ug/l
RT: 2.204 min Scan# 30
Delta R.T. 0.010 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

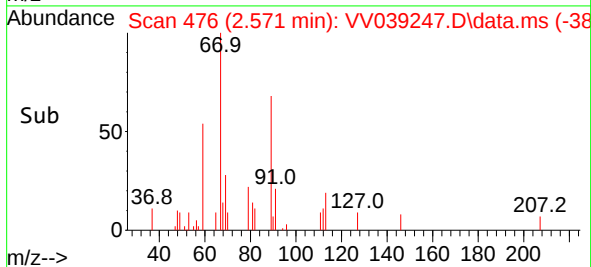
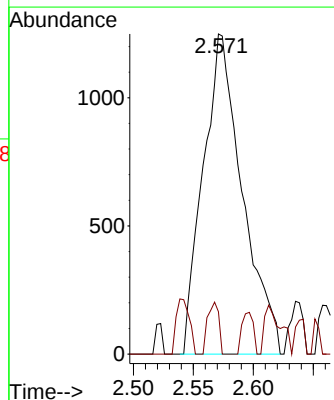
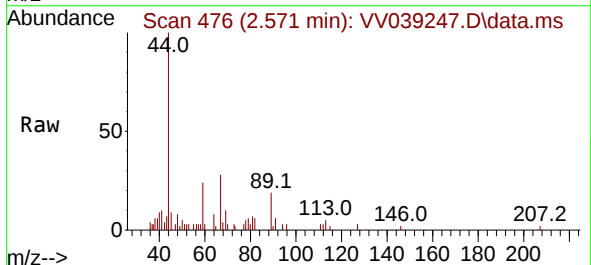
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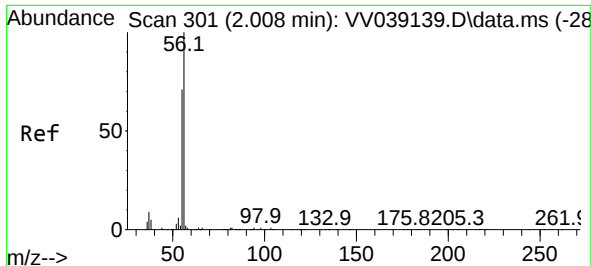
Tgt Ion:142 Resp: 2060
Ion Ratio Lower Upper
142 100
127 45.0 36.3 54.5
141 13.4 11.2 16.8



#11
Tert butyl alcohol
Concen: 1.621 ug/l
RT: 2.571 min Scan# 476
Delta R.T. 0.006 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 59 Resp: 2839
Ion Ratio Lower Upper
59 100
57 4.6 7.8 11.8#

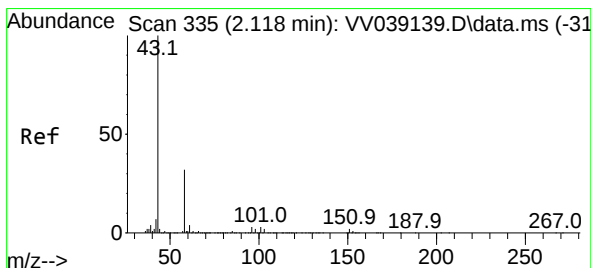
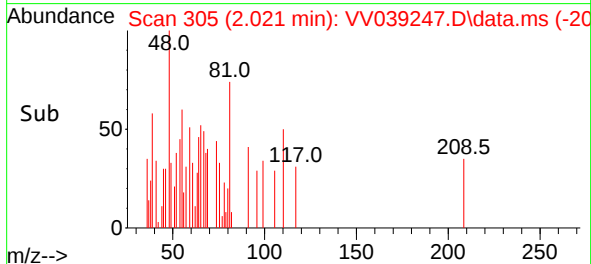
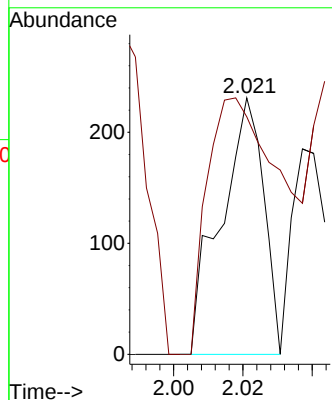
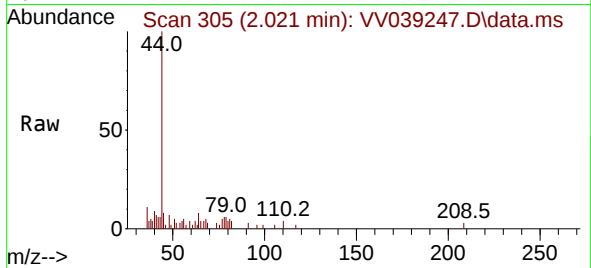




#13
Acrolein
Concen: 0.655 ug/l
RT: 2.021 min Scan# 301
Delta R.T. 0.013 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

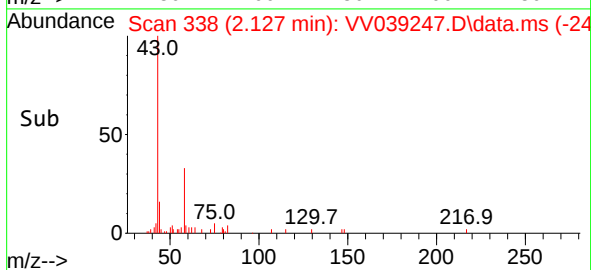
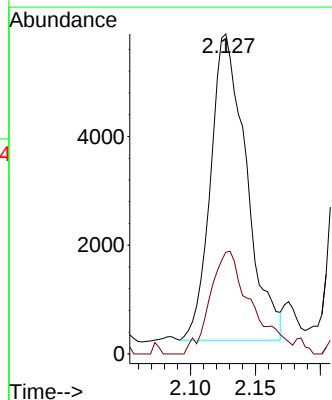
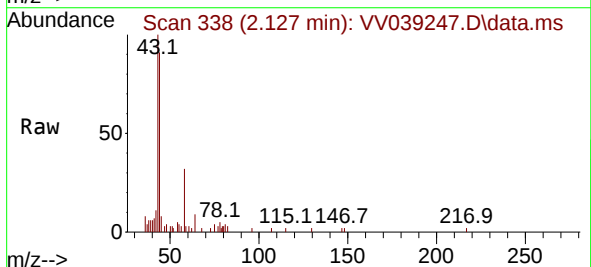
Instrument :
MSVOA_V
ClientSampleId :
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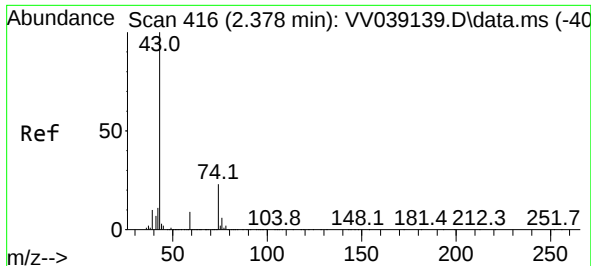
Tgt Ion: 56 Resp: 199
Ion Ratio Lower Upper
56 100
55 175.4 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 43 Resp: 10757
Ion Ratio Lower Upper
43 100
58 33.2 25.8 38.6

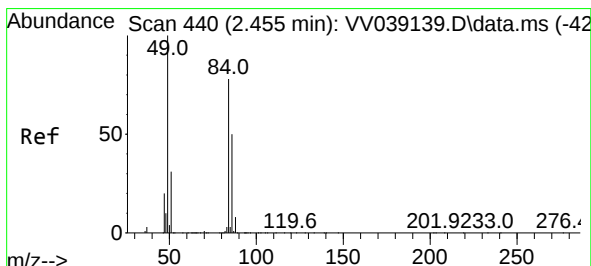
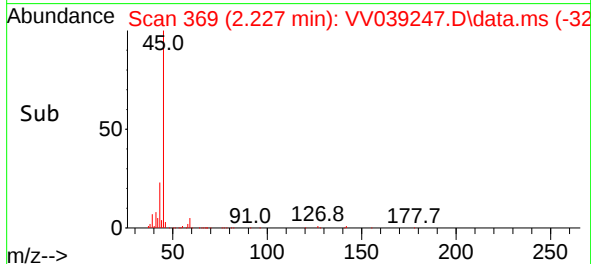
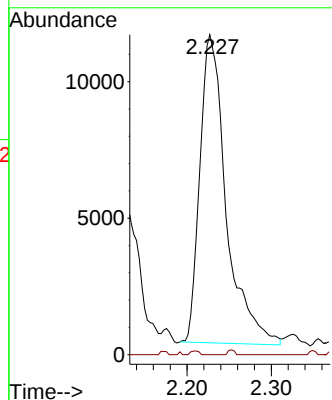
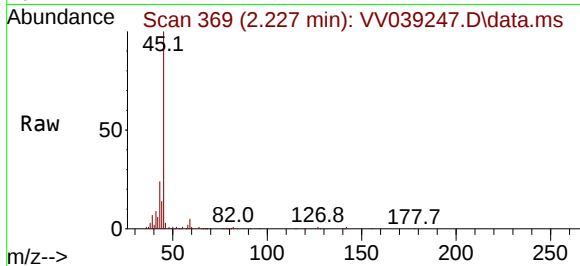




#18
Methyl Acetate
Concen: 1.998 ug/l
RT: 2.227 min Scan# 30
Delta R.T. -0.151 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

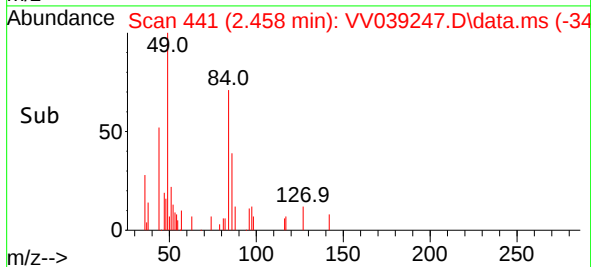
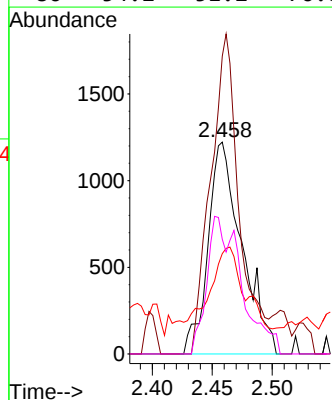
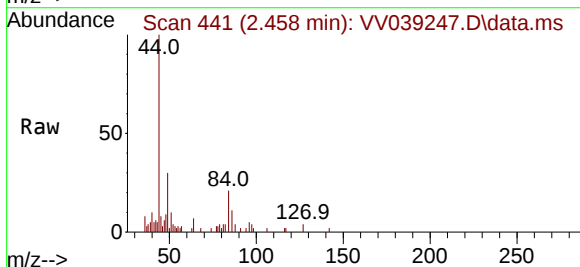
Instrument :
MSVOA_V
ClientSampleId :
251818

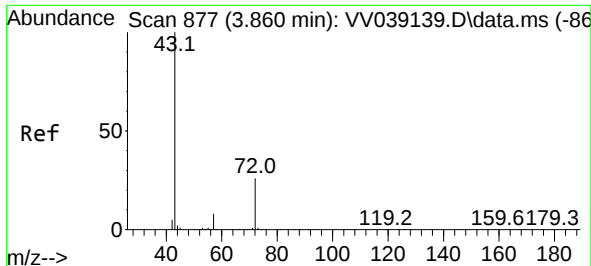
Tgt Ion: 43 Resp: 24539
Ion Ratio Lower Upper
43 100
74 0.4 18.6 27.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 84 Resp: 2396
Ion Ratio Lower Upper
84 100
49 140.6 102.8 154.2
51 34.9 31.9 47.9
86 54.2 51.2 76.8

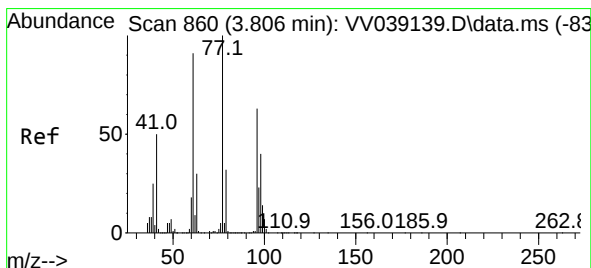
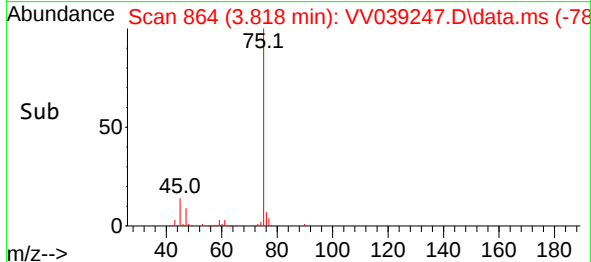
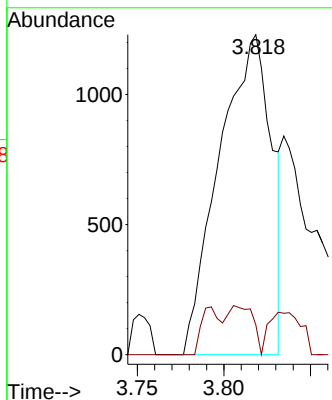
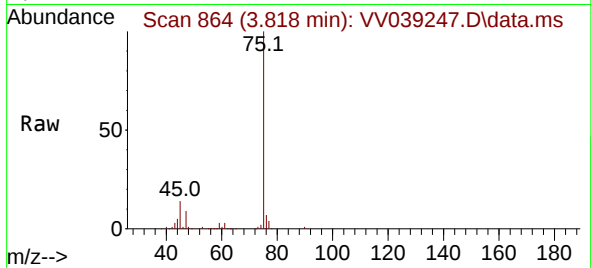




#25
2-Butanone
Concen: 0.387 ug/l
RT: 3.818 min Scan# 80
Delta R.T. -0.042 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

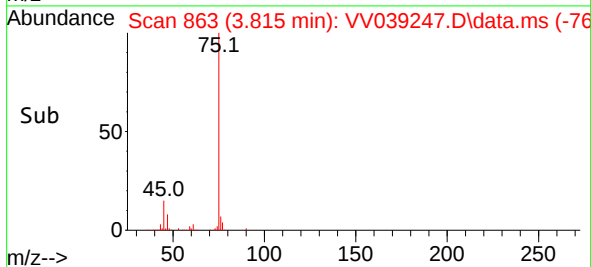
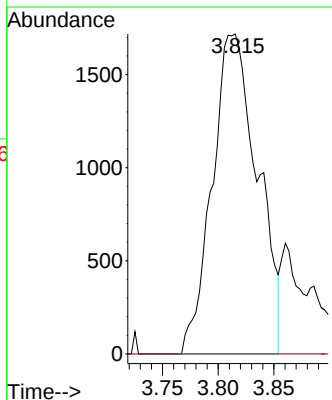
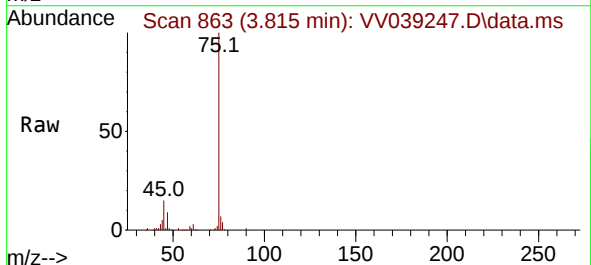
Instrument :
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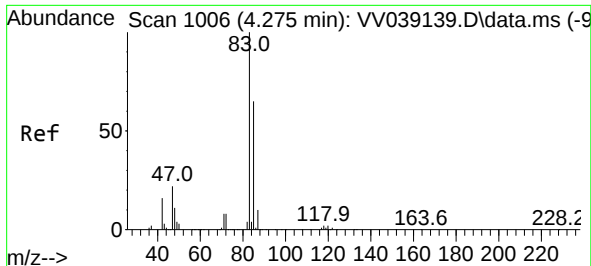
Tgt Ion: 43 Resp: 2568
Ion Ratio Lower Upper
43 100
72 9.3 21.0 31.6#



#26
2,2-Dichloropropane
Concen: 0.304 ug/l
RT: 3.815 min Scan# 863
Delta R.T. 0.010 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 77 Resp: 4865
Ion Ratio Lower Upper
77 100
97 0.0 11.6 34.7#





#30

Chloroform

Concen: 0.804 ug/l

RT: 4.285 min Scan# 1108

Delta R.T. 0.010 min

Lab File: VV039247.D

Acq: 03 Oct 2025 14:19

Instrument :

MSVOA_V

ClientSampleId :

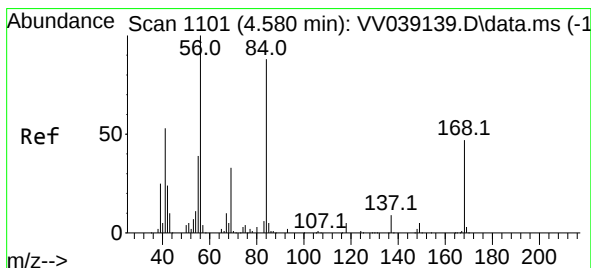
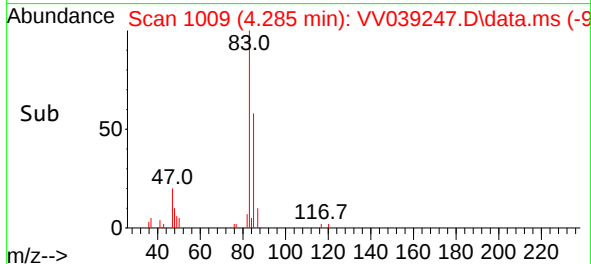
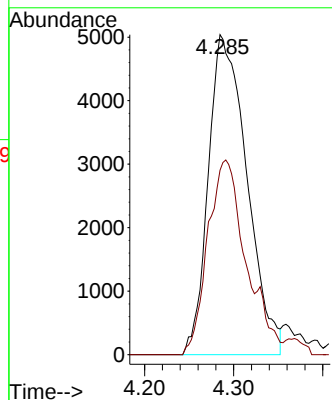
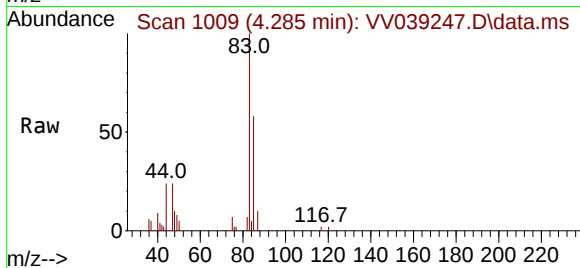
251818

Tgt Ion: 83 Resp: 15150

Ion Ratio Lower Upper

83 100

85 57.6 52.1 78.1



#31

Cyclohexane

Concen: 0.905 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.023 min

Lab File: VV039247.D

Acq: 03 Oct 2025 14:19

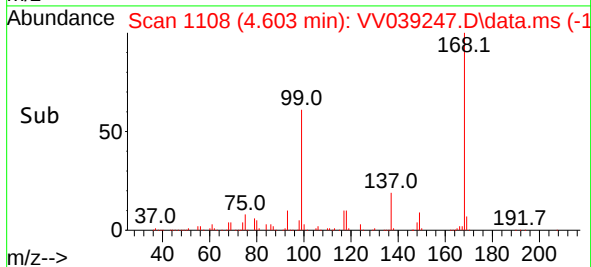
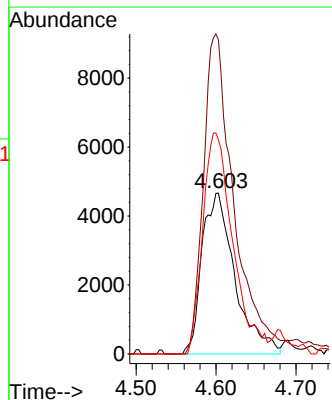
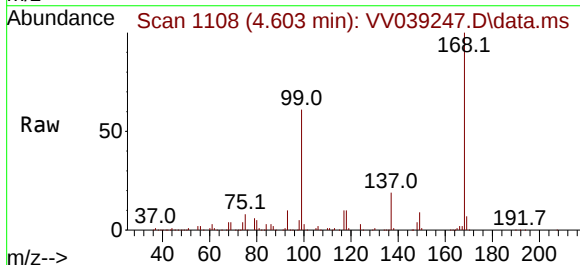
Tgt Ion: 56 Resp: 13381

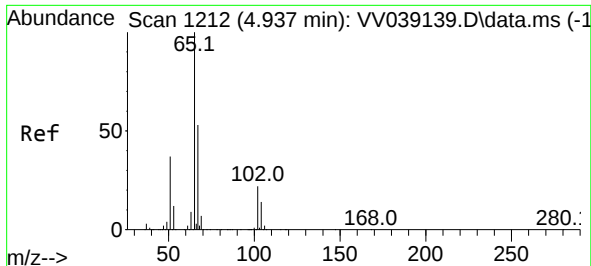
Ion Ratio Lower Upper

56 100

69 195.3 26.2 39.2#

84 133.1 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 47.517 ug/l

RT: 4.944 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039247.D

Acq: 03 Oct 2025 14:19

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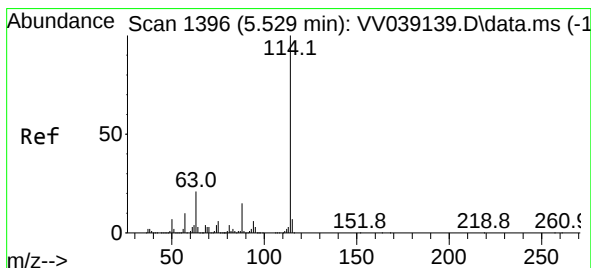
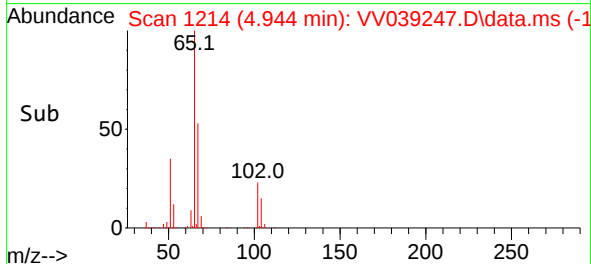
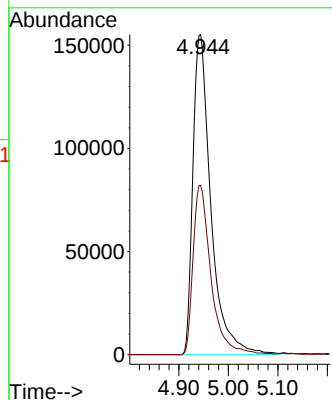
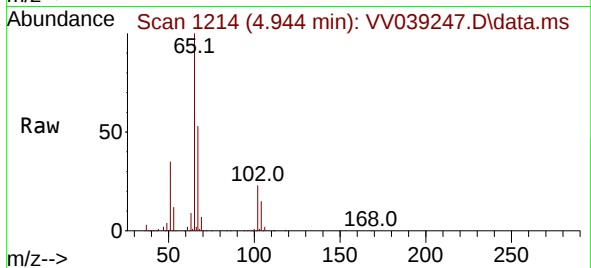
251818

Tgt Ion: 65 Resp: 393786

Ion Ratio Lower Upper

65 100

67 52.3 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039247.D

Acq: 03 Oct 2025 14:19

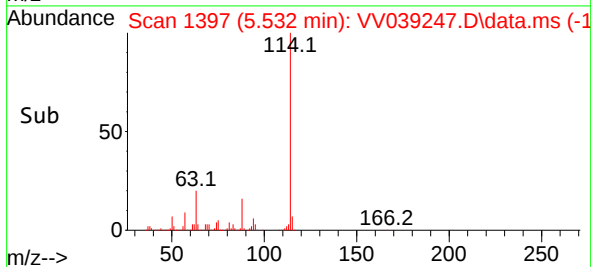
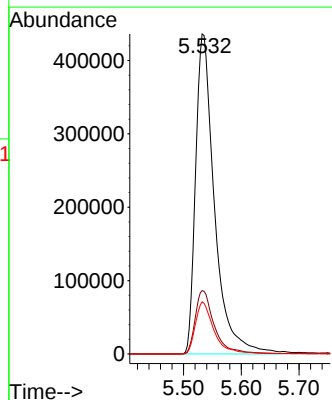
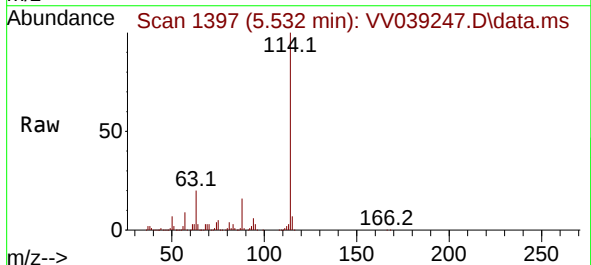
Tgt Ion: 114 Resp: 991649

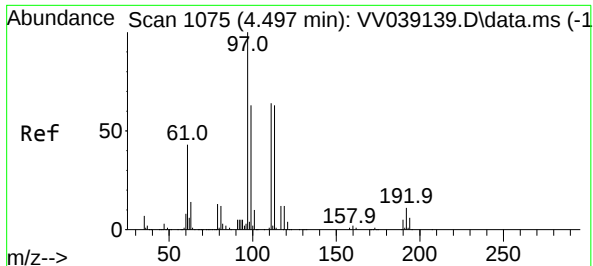
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 16.3 0.0 30.8

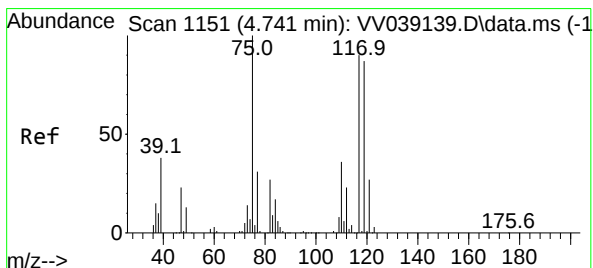
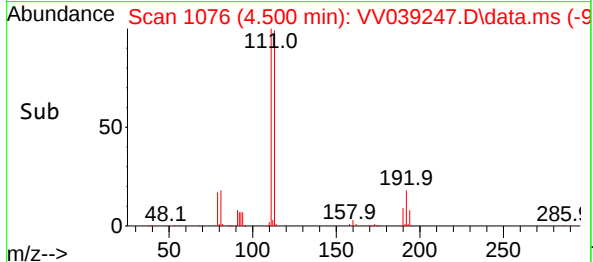
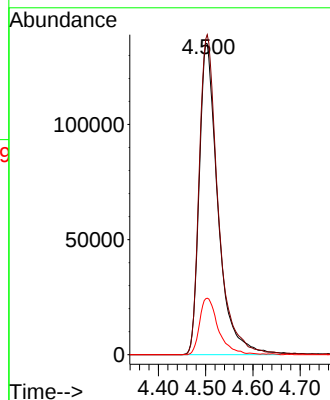
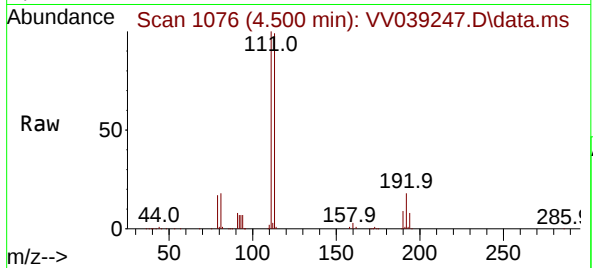




#35
Dibromofluoromethane
Concen: 46.634 ug/l
RT: 4.500 min Scan# 1107
Delta R.T. 0.003 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

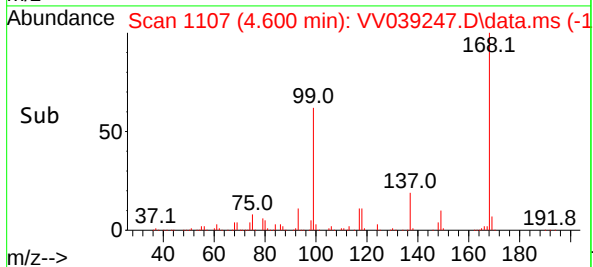
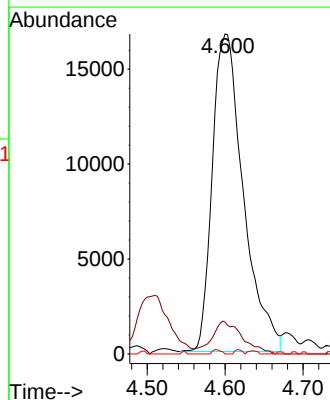
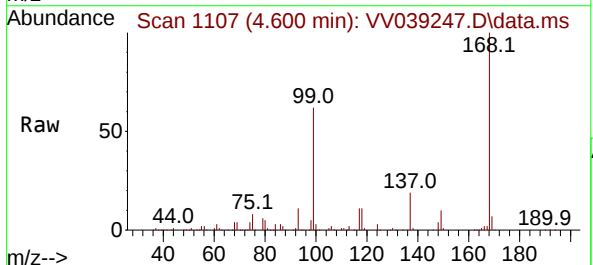
Instrument :
MSVOA_V
ClientSampleId :
251818

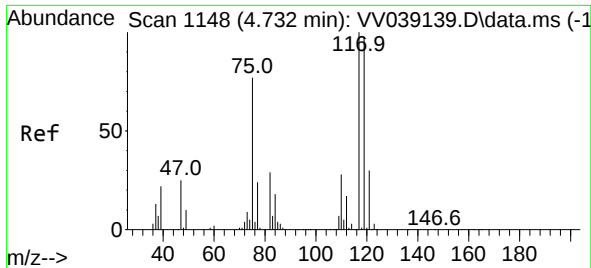
Tgt Ion:113 Resp: 371771
Ion Ratio Lower Upper
113 100
111 103.2 82.4 123.6
192 18.0 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.839 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 75 Resp: 46266
Ion Ratio Lower Upper
75 100
110 10.1 18.1 54.1#
77 0.4 24.8 37.2#

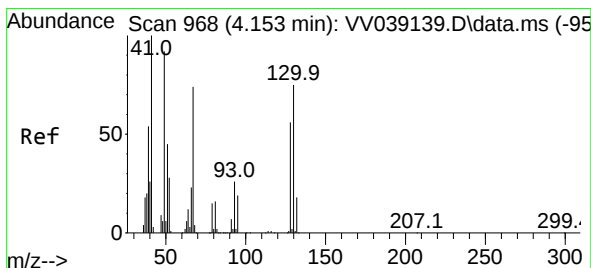
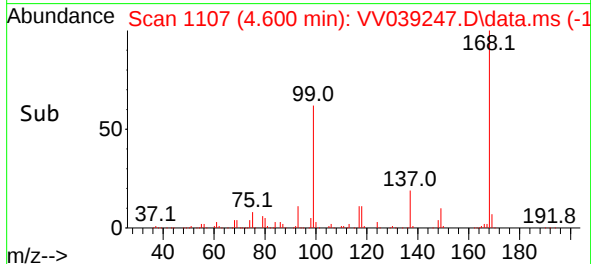
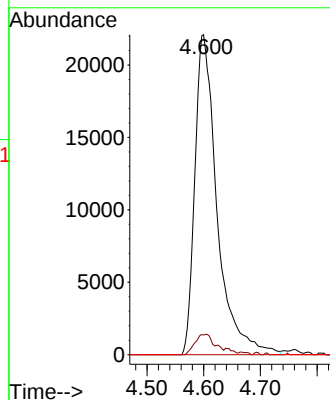
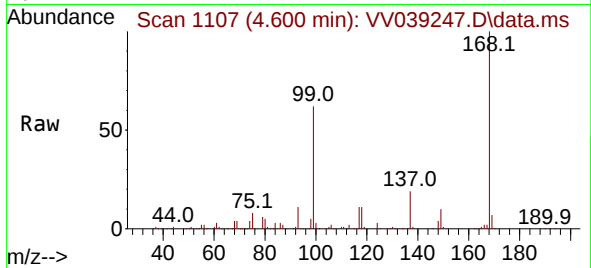




#38
Carbon Tetrachloride
Concen: 4.088 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

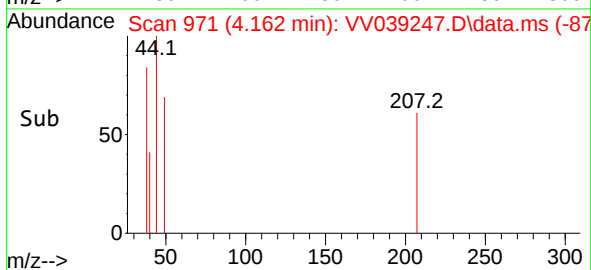
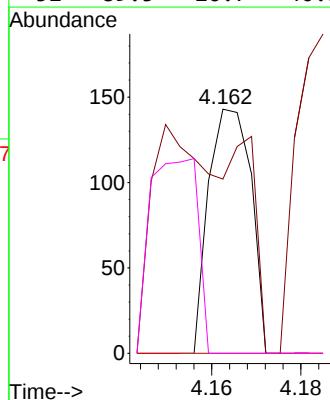
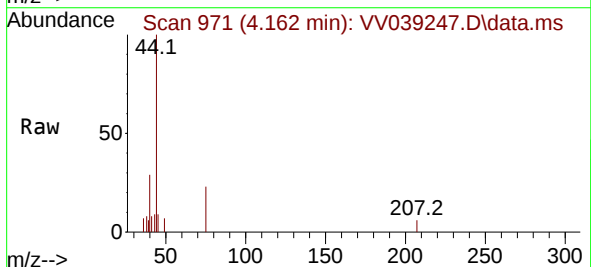
Instrument :
MSVOA_V
ClientSampleId :
251818

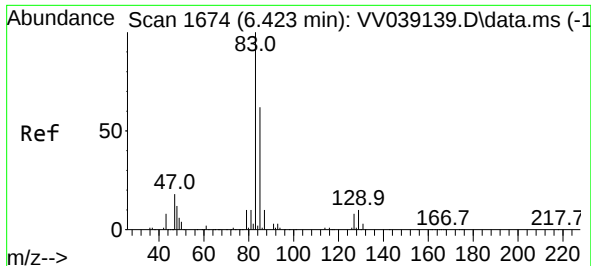
Tgt Ion:117 Resp: 60215
Ion Ratio Lower Upper
117 100
119 6.2 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.924 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.009 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 41 Resp: 95
Ion Ratio Lower Upper
41 100
39 137.9 42.2 63.2#
67 0.0 67.9 101.9#
52 89.5 26.7 40.1#

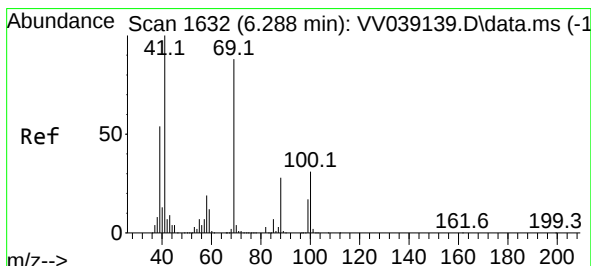
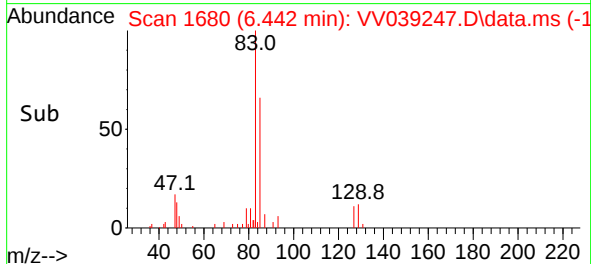
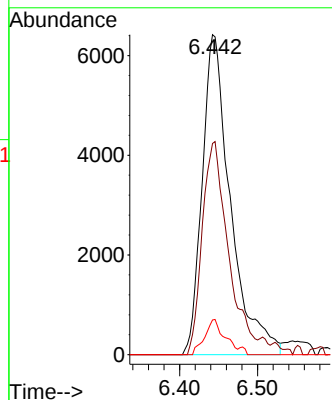
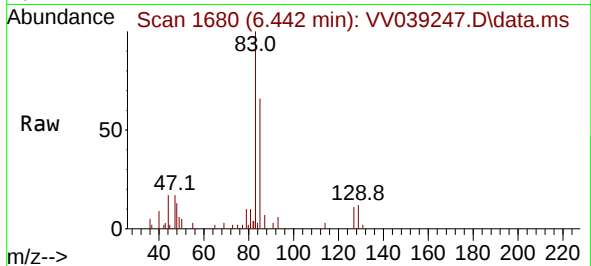




#47
Bromodichloromethane
Concen: 1.049 ug/l
RT: 6.442 min Scan# 1
Delta R.T. 0.019 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

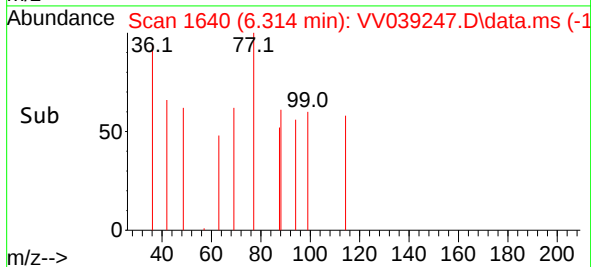
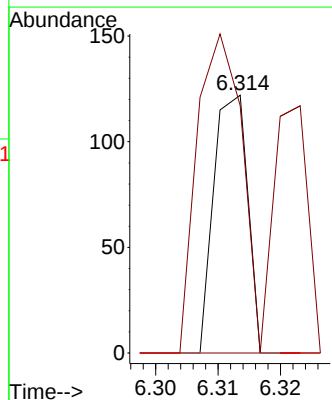
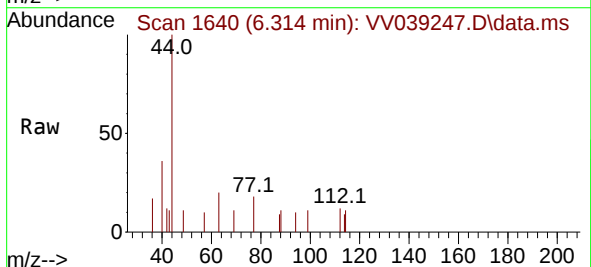
Instrument :
MSVOA_V
ClientSampleId :
251818

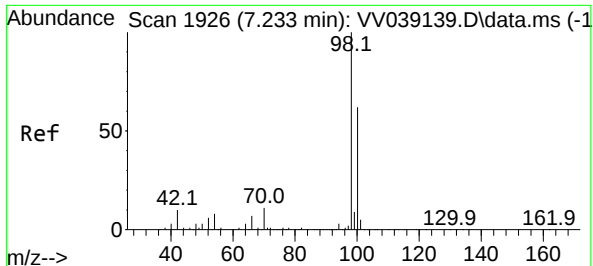
Tgt Ion: 83 Resp: 16189
Ion Ratio Lower Upper
83 100
85 66.0 49.7 74.5
127 10.9 6.6 9.8#



#49
1,4-Dioxane
Concen: 0.315 ug/l
RT: 6.314 min Scan# 1640
Delta R.T. 0.026 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 163.0 25.1 37.7#
58 0.0 53.6 80.4#

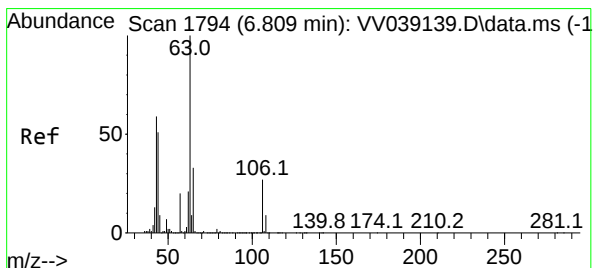
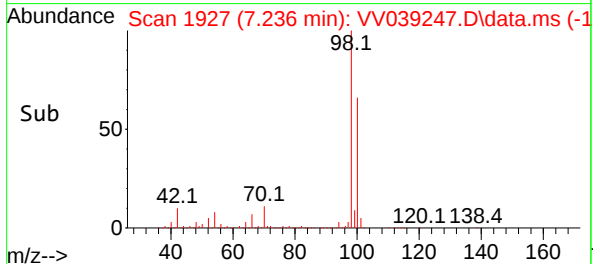
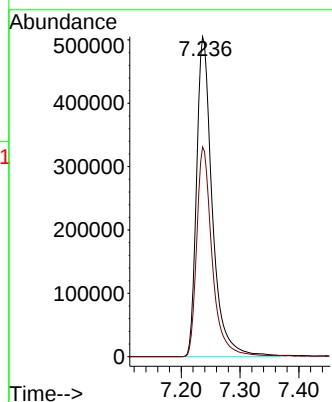
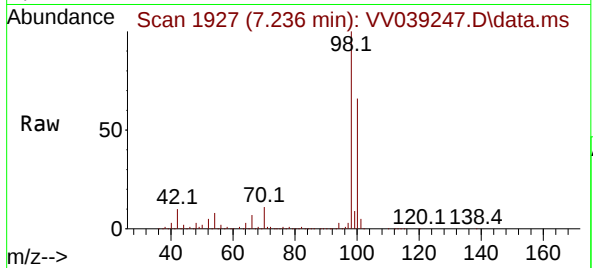




#50
Toluene-d8
Concen: 40.046 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

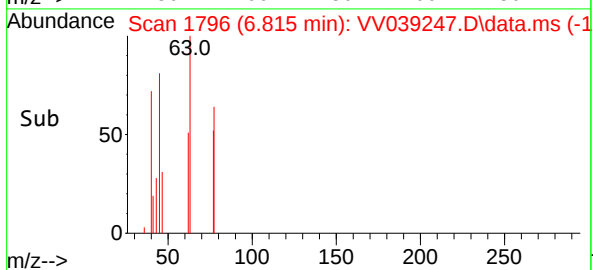
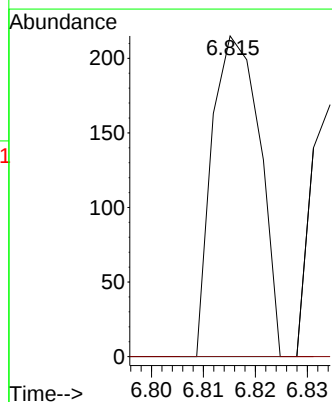
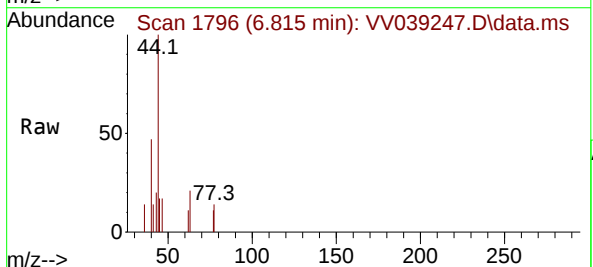
Instrument :
MSVOA_V
ClientSampleId :
251818

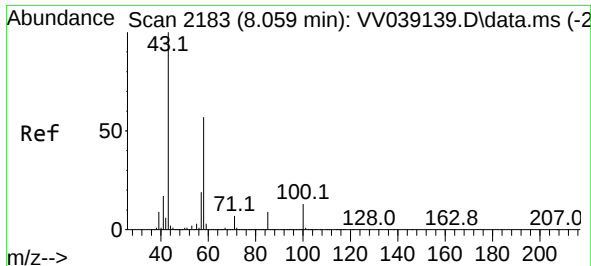
Tgt Ion: 98 Resp: 937628
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.642 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 63 Resp: 137
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#

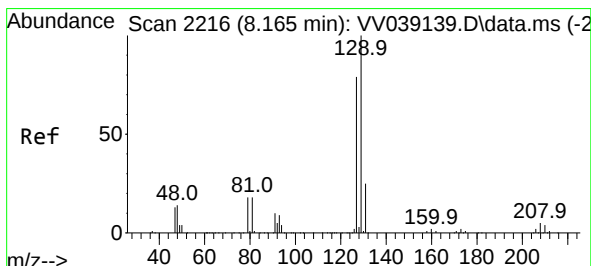
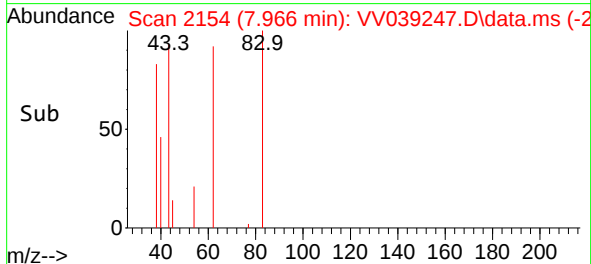
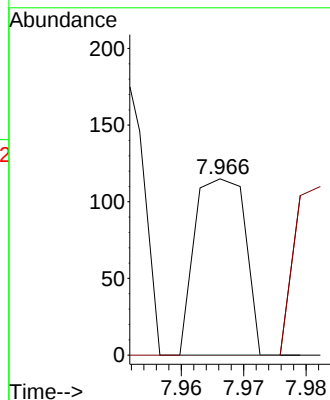
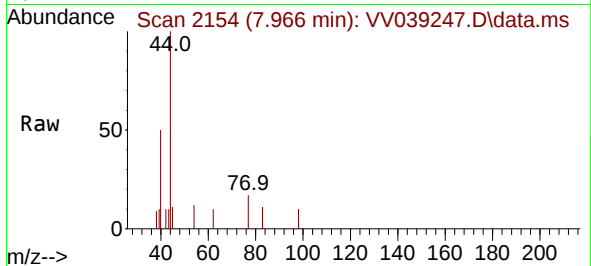




#59
2-Hexanone
Concen: 2.332 ug/l
RT: 7.966 min Scan# 2183
Delta R.T. -0.093 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

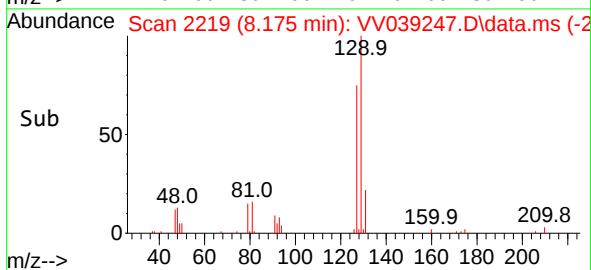
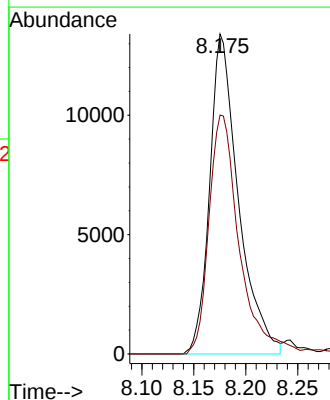
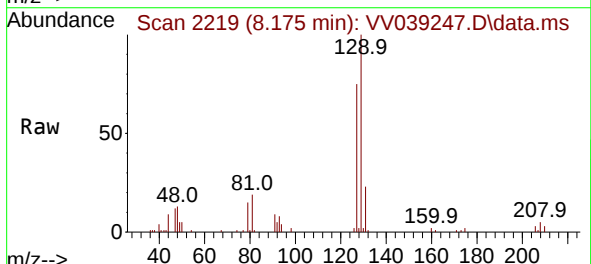
Instrument :
MSVOA_V
ClientSampleId :
251818

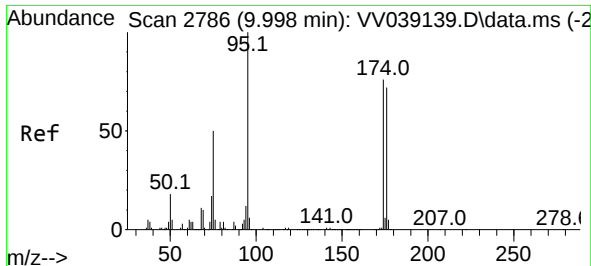
Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
58 64.1 28.3 85.0



#60
Dibromochloromethane
Concen: 2.218 ug/l
RT: 8.175 min Scan# 2219
Delta R.T. 0.010 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 129 Resp: 25784
Ion Ratio Lower Upper
129 100
127 78.5 39.3 117.9

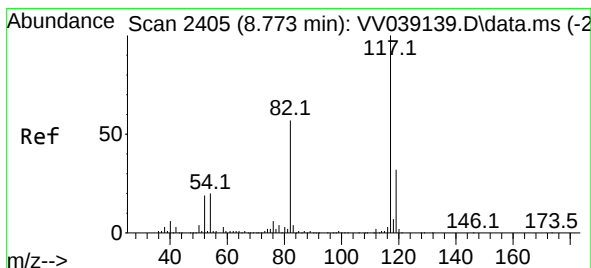
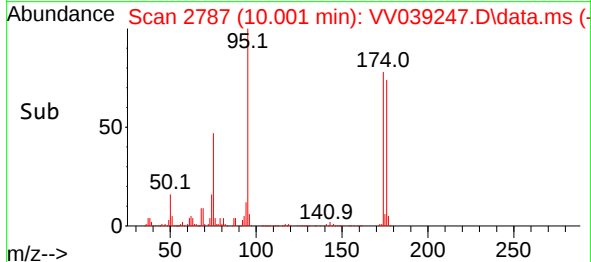
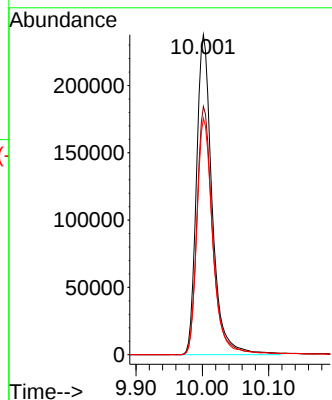
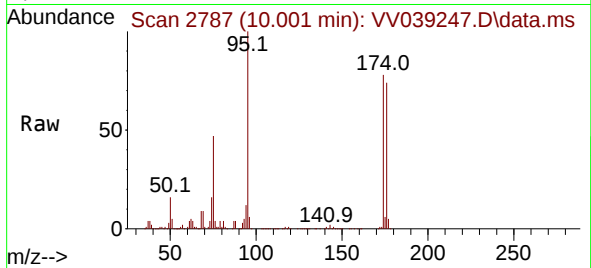




#62
4-Bromofluorobenzene
Concen: 40.488 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

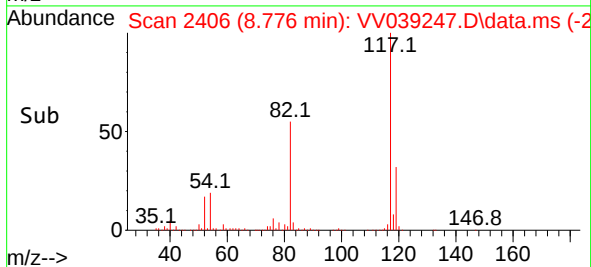
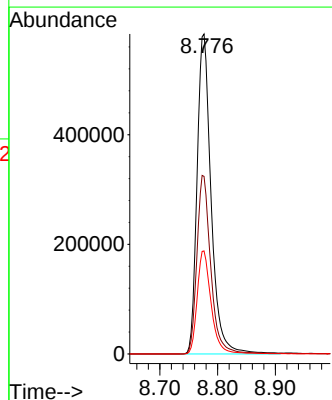
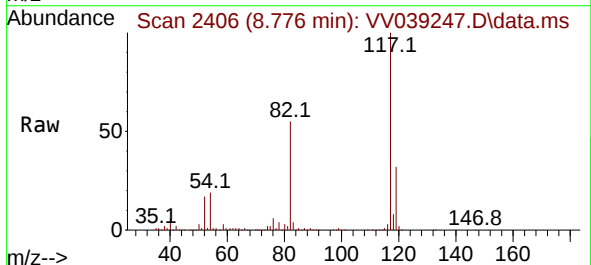
Instrument :
MSVOA_V
ClientSampleId :
251818

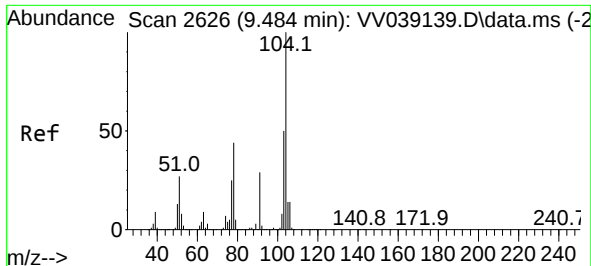
Tgt Ion: 95 Resp: 390260
Ion Ratio Lower Upper
95 100
174 78.6 0.0 150.4
176 74.8 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 117 Resp: 986156
Ion Ratio Lower Upper
117 100
82 55.5 45.4 68.2
119 32.2 25.6 38.4





#70

Styrene

Concen: 1.562 ug/l

RT: 9.535 min Scan# 2

Delta R.T. 0.051 min

Lab File: VV039247.D

Acq: 03 Oct 2025 14:19

Instrument :

MSVOA_V

ClientSampleId :

251818

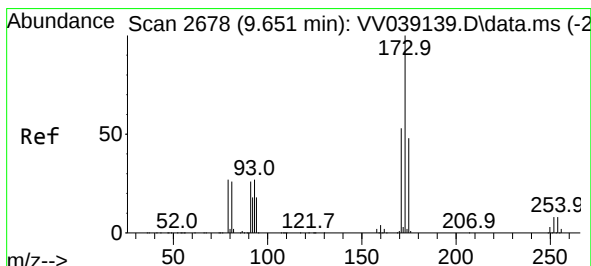
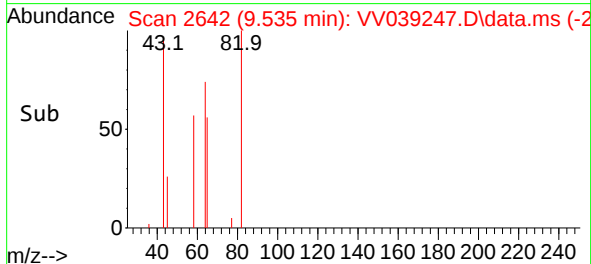
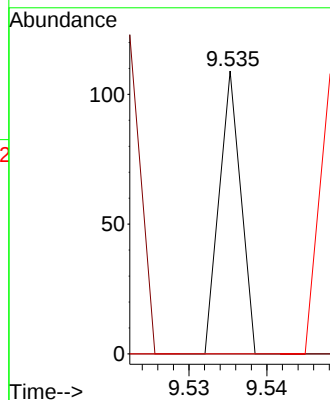
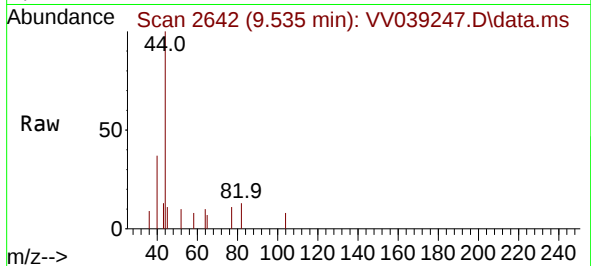
Tgt Ion:104 Resp: 21

Ion Ratio Lower Upper

104 100

78 0.0 39.8 59.6#

103 190.5 43.4 65.2#



#71

Bromoform

Concen: 2.130 ug/l

RT: 9.661 min Scan# 2681

Delta R.T. 0.010 min

Lab File: VV039247.D

Acq: 03 Oct 2025 14:19

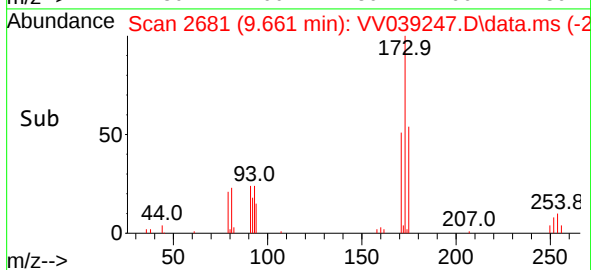
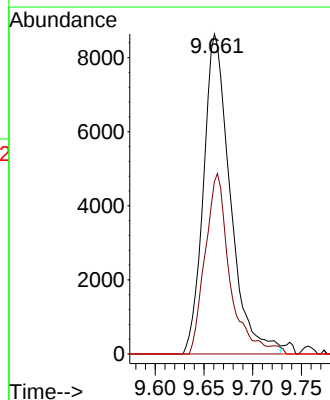
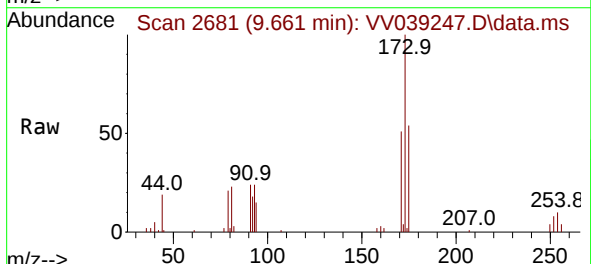
Tgt Ion:173 Resp: 16517

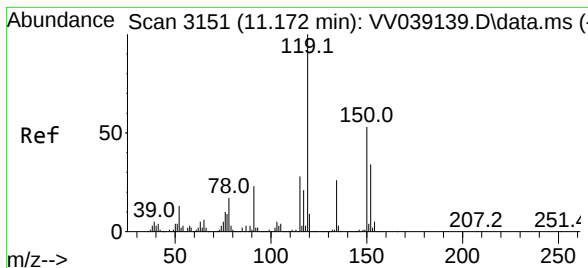
Ion Ratio Lower Upper

173 100

175 51.2 23.9 71.7

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039247.D

Acq: 03 Oct 2025 14:19

Instrument :

MSVOA_V

ClientSampleId :

251818

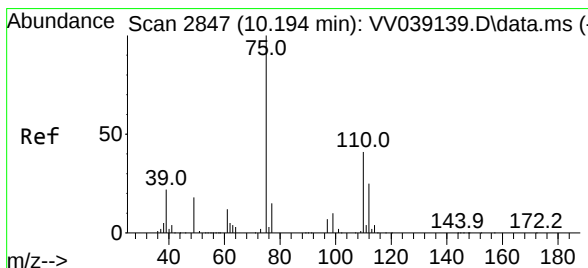
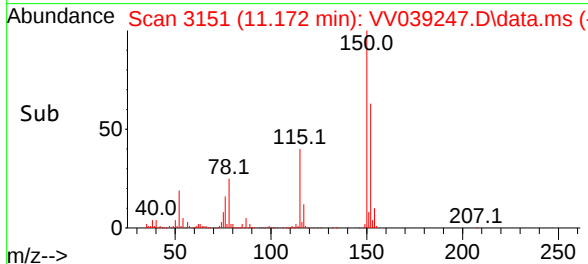
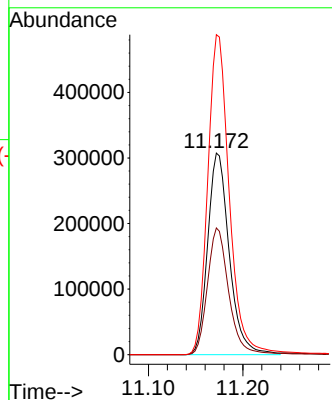
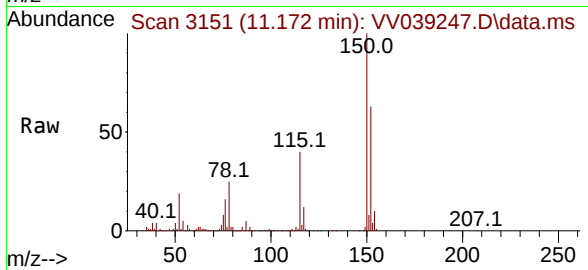
Tgt Ion:152 Resp: 488269

Ion Ratio Lower Upper

152 100

115 62.1 44.8 134.4

150 159.6 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 16.820 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039247.D

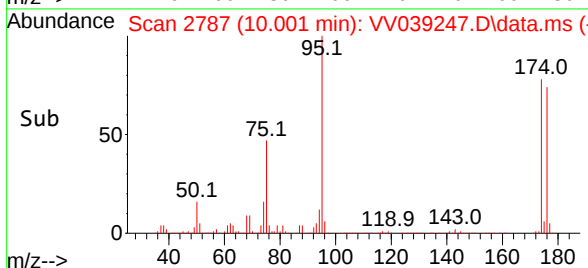
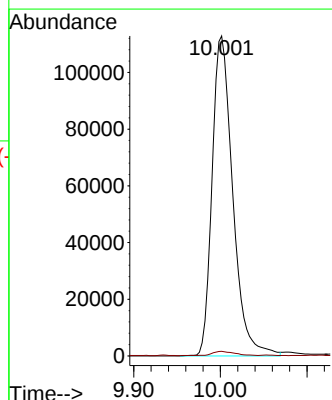
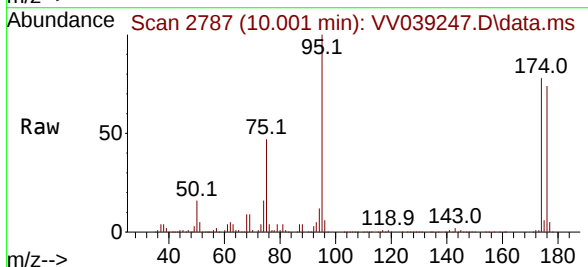
Acq: 03 Oct 2025 14:19

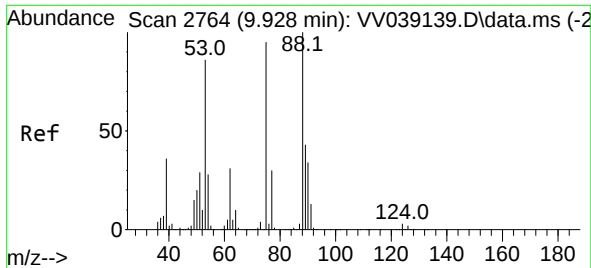
Tgt Ion: 75 Resp: 186991

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#

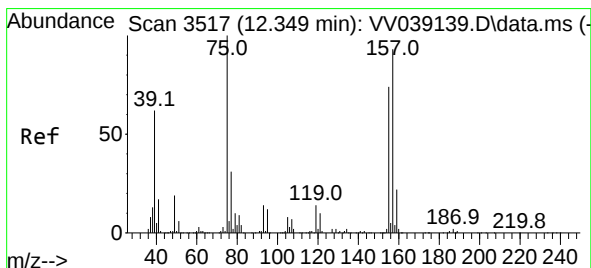
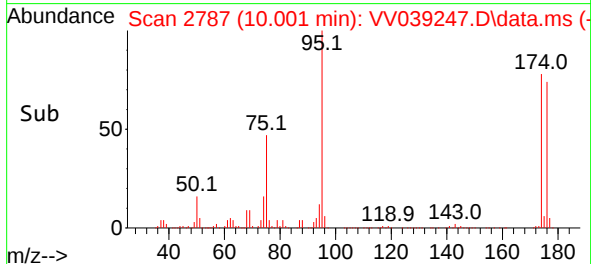
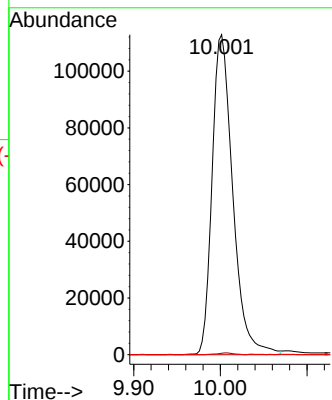
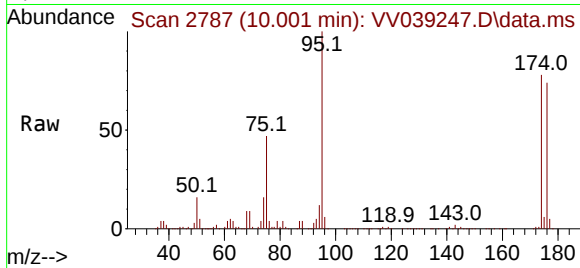




#81
trans-1,4-Dichloro-2-butene
Concen: 40.380 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Instrument :
MSVOA_V
ClientSampleId :
251818

Tgt Ion: 75 Resp: 186991
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.390 min Scan# 3530
Delta R.T. 0.041 min
Lab File: VV039247.D
Acq: 03 Oct 2025 14:19

Tgt Ion: 75 Resp: 64
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

