

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039322.D
 Acq On : 04 Nov 2025 18:09
 Operator : SY/MD
 Sample : Q3534-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:41:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

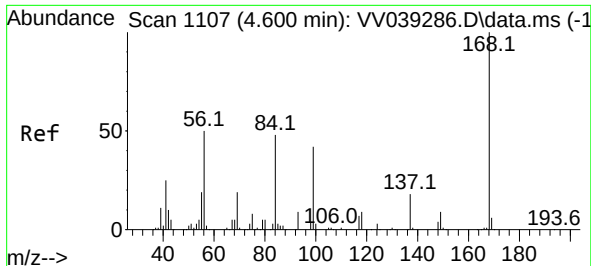
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	916194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1787762	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1600815	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	725582	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	755450	58.028	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 116.060%			
35) Dibromofluoromethane	4.500	113	668222	47.438	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 94.880%			
50) Toluene-d8	7.236	98	2225824	46.448	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.900%			
62) 4-Bromofluorobenzene	9.998	95	776019	45.470	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.940%			
Target Compounds					Qvalue	
3) Chloromethane	1.204	50	120512	9.996	ug/l #	43
8) Diethyl Ether	1.918	74	270465	35.620	ug/l	98
10) Methyl Iodide	2.204	142	2665	0.246	ug/l #	76
11) Tert butyl alcohol	2.561	59	266760	105.733	ug/l	99
13) Acrolein	1.992	56	708	Below Cal	#	1
14) Allyl chloride	2.564	41	53984	2.757	ug/l #	62
16) Acetone	2.127	43	14294	Below Cal		95
17) Carbon Disulfide	2.259	76	25913	0.743	ug/l #	92
19) Methyl tert-butyl Ether	2.712	73	7499	0.202	ug/l #	91
20) Methylene Chloride	2.458	84	1433	Below Cal	#	85
21) trans-1,2-Dichloroethene	2.706	96	4905	0.377	ug/l	84
22) Diisopropyl ether	3.220	45	130825	3.721	ug/l #	34
23) Vinyl Acetate	3.220	43	72497	2.349	ug/l #	72
27) cis-1,2-Dichloroethene	3.831	96	23404	1.797	ug/l	95
31) Cyclohexane	4.596	56	18994	1.107	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	75290	4.256	ug/l #	49
38) Carbon Tetrachloride	4.600	117	95846	4.447	ug/l #	18
41) Methacrylonitrile	4.166	41	154	1.708	ug/l #	27
43) Isopropyl Acetate	5.105	43	127898	4.717	ug/l #	60
49) 1,4-Dioxane	6.288	88	49529	237.001	ug/l #	96
51) 4-Methyl-2-Pentanone	7.233	43	8350	0.444	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.979	63	141	8.480	ug/l	94
76) 1,2,3-Trichloropropane	9.998	75	383757	26.499	ug/l #	53
81) trans-1,4-Dichloro-2-b...	9.998	75	383757	66.924	ug/l #	14

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

Quant Time: Nov 05 00:41:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

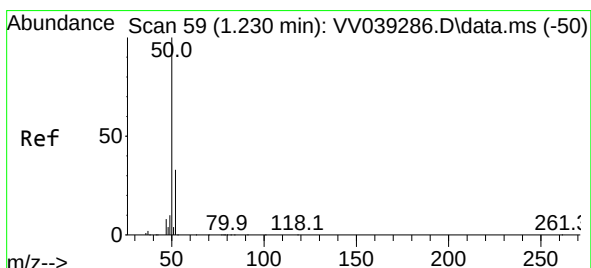
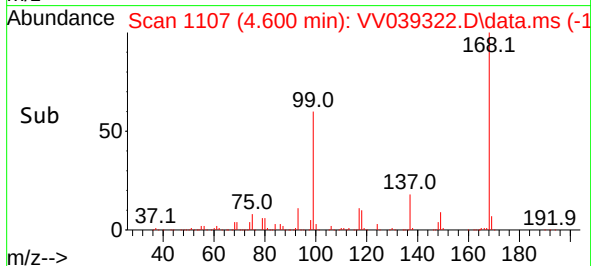
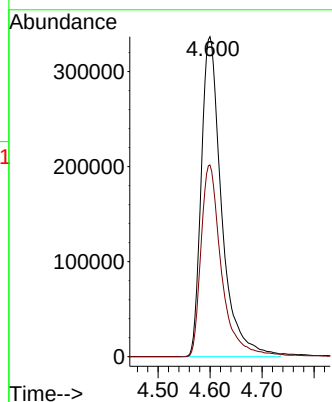
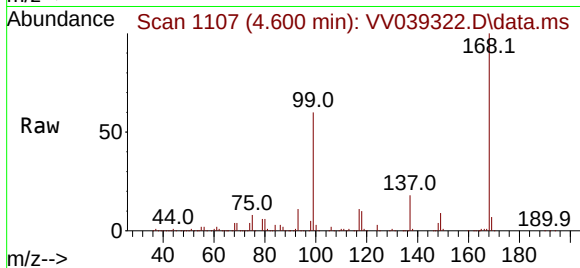




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

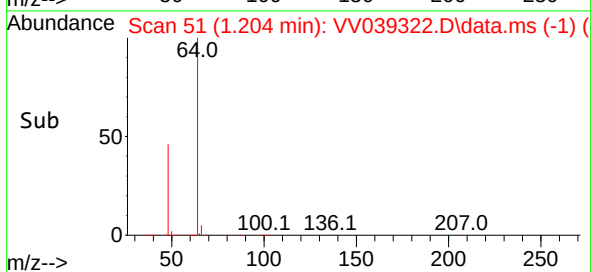
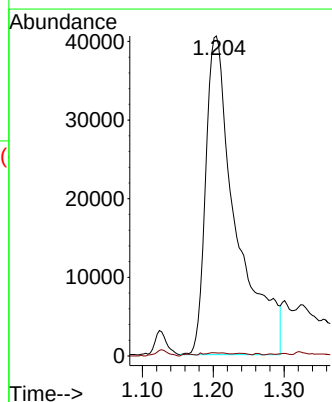
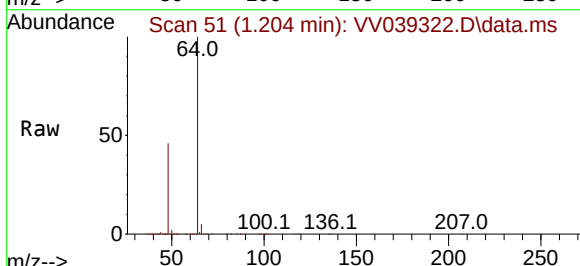
Instrument :
MSVOA_V
ClientSampleId :

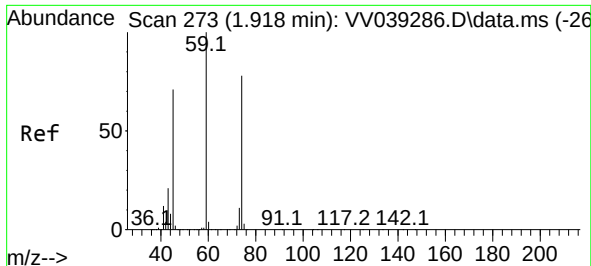
Tgt Ion:168 Resp: 916194
Ion Ratio Lower Upper
168 100
99 59.9 46.6 70.0



#3
Chloromethane
Concen: 9.996 ug/l
RT: 1.204 min Scan# 51
Delta R.T. -0.026 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 50 Resp: 120512
Ion Ratio Lower Upper
50 100
52 1.0 26.6 39.8#

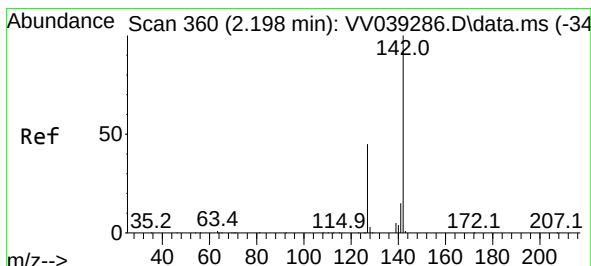
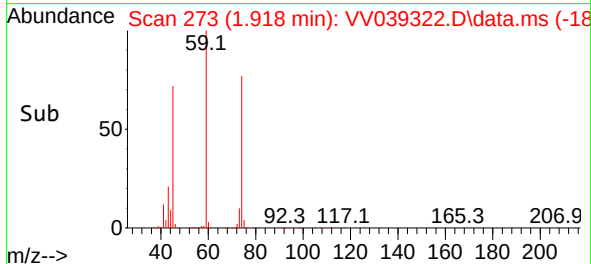
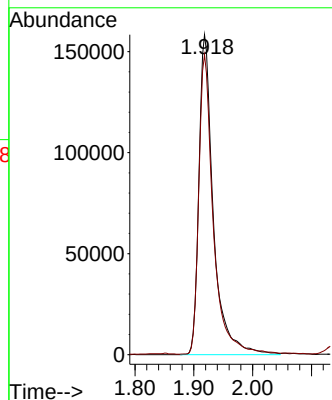
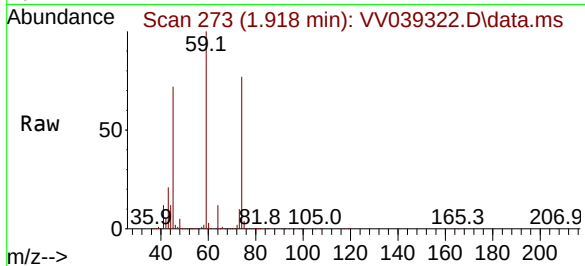




#8
Diethyl Ether
Concen: 35.620 ug/l
RT: 1.918 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

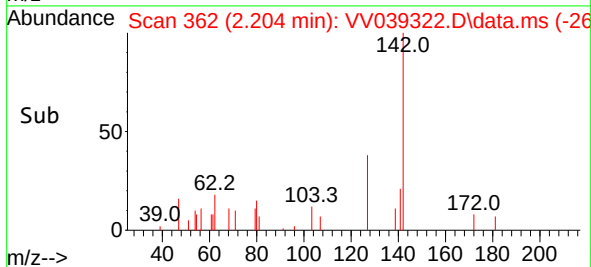
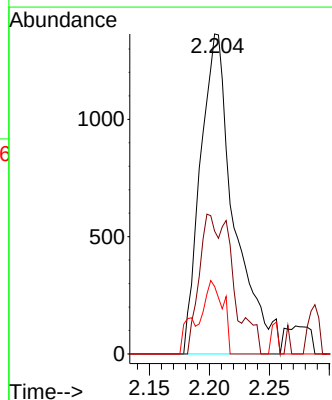
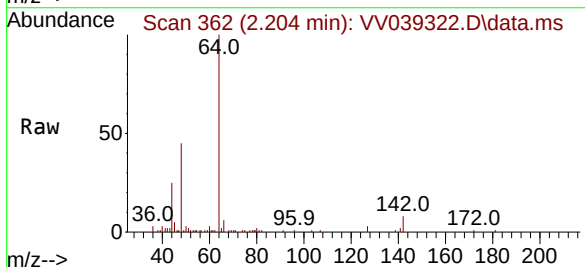
Instrument :
MSVOA_V
ClientSampleId :

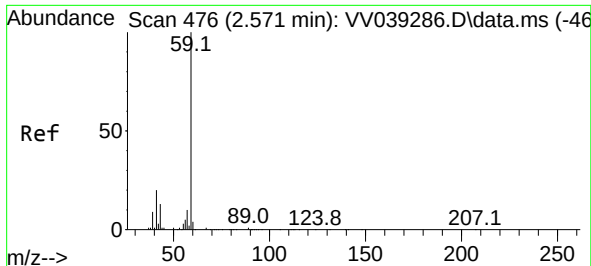
Tgt Ion: 74 Resp: 270465
Ion Ratio Lower Upper
74 100
45 93.7 45.9 137.7



#10
Methyl Iodide
Concen: 0.246 ug/l
RT: 2.204 min Scan# 362
Delta R.T. 0.007 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 142 Resp: 2665
Ion Ratio Lower Upper
142 100
127 24.4 35.5 53.3#
141 13.3 11.5 17.3

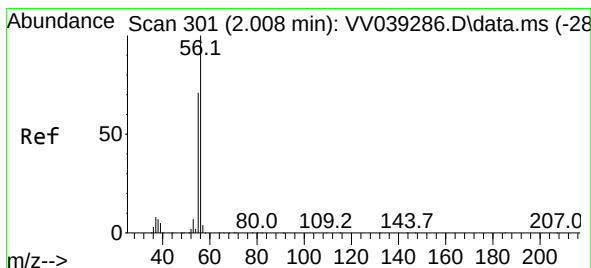
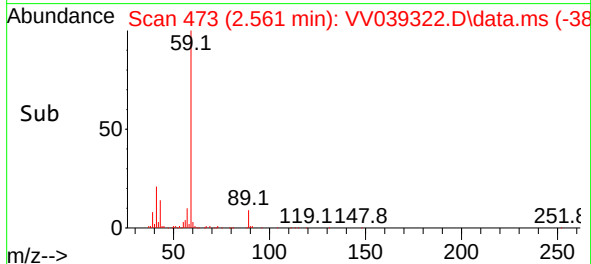
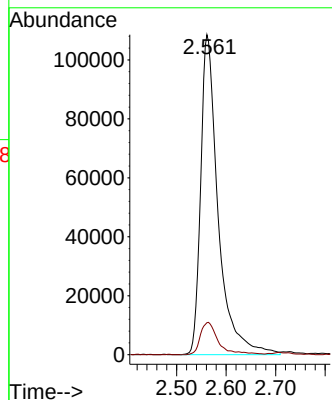
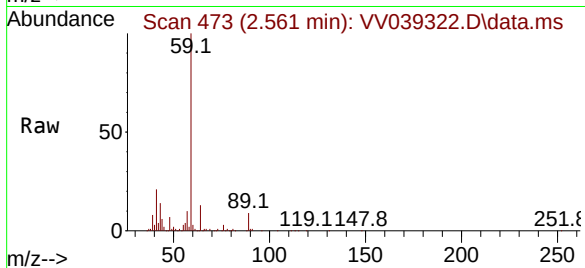




#11
Tert butyl alcohol
Concen: 105.733 ug/l
RT: 2.561 min Scan# 41
Delta R.T. -0.010 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

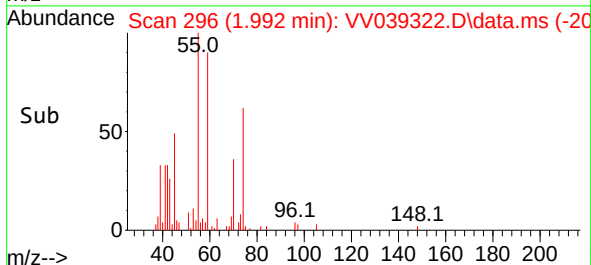
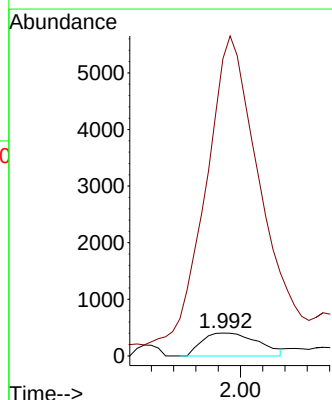
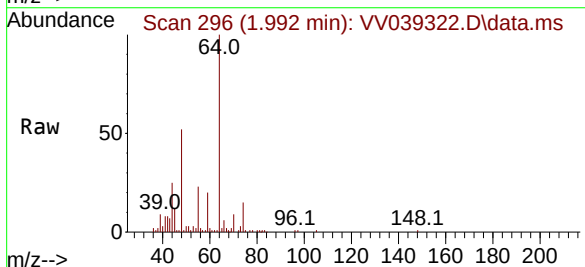
Instrument :
MSVOA_V
ClientSampleId :

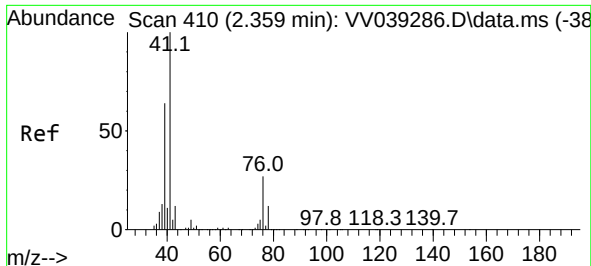
Tgt Ion: 59 Resp: 266760
Ion Ratio Lower Upper
59 100
57 9.8 8.1 12.1



#13
Acrolein
Concen: Below Cal
RT: 1.992 min Scan# 296
Delta R.T. -0.016 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 56 Resp: 708
Ion Ratio Lower Upper
56 100
55 1294.1 56.2 84.4#

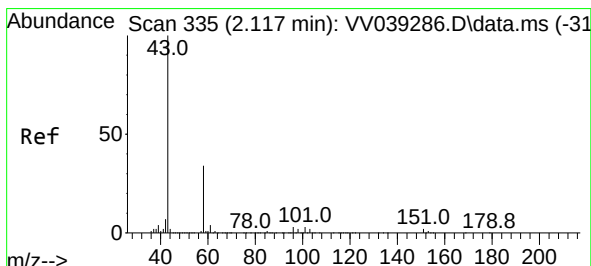
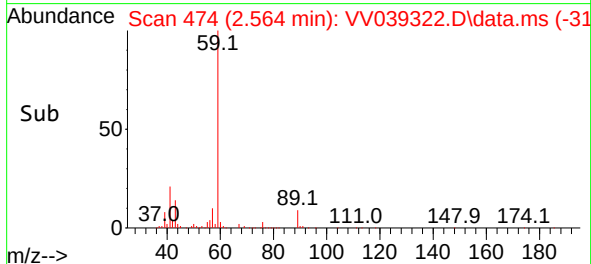
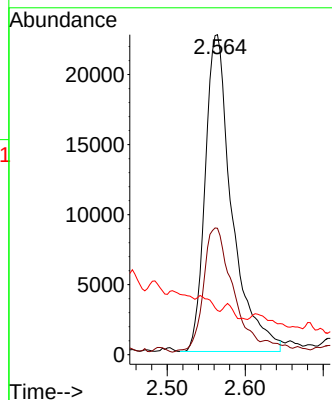
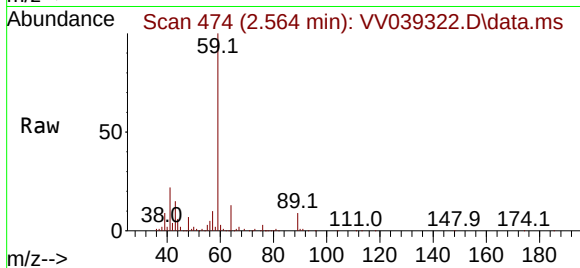




#14
 Allyl chloride
 Concen: 2.757 ug/l
 RT: 2.564 min Scan# 41
 Delta R.T. 0.206 min
 Lab File: VV039322.D
 Acq: 04 Nov 2025 18:09

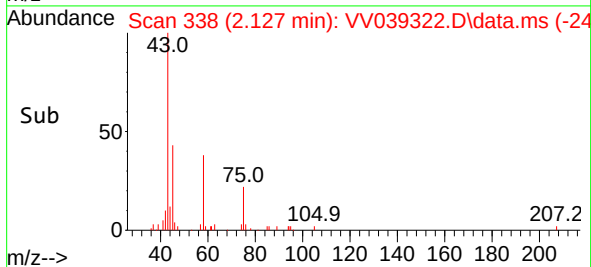
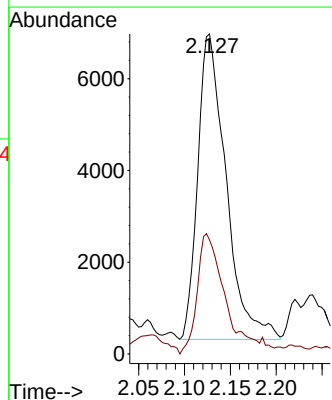
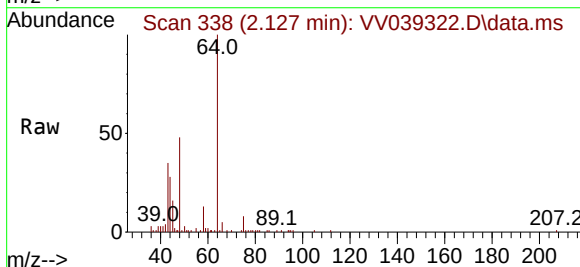
Instrument :
 MSVOA_V
 ClientSampleId :

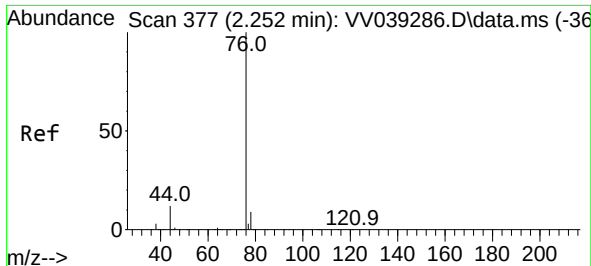
Tgt Ion: 41 Resp: 53984
 Ion Ratio Lower Upper
 41 100
 39 42.8 47.8 71.6#
 76 0.0 30.2 45.2#



#16
 Acetone
 Concen: Below Cal
 RT: 2.127 min Scan# 338
 Delta R.T. 0.010 min
 Lab File: VV039322.D
 Acq: 04 Nov 2025 18:09

Tgt Ion: 43 Resp: 14294
 Ion Ratio Lower Upper
 43 100
 58 37.4 27.5 41.3

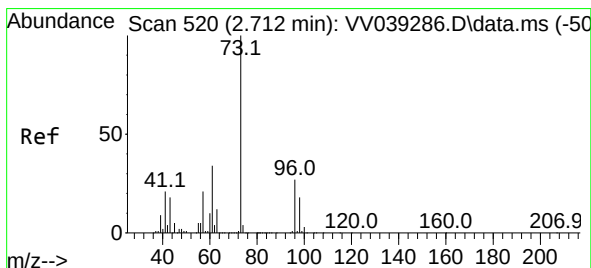
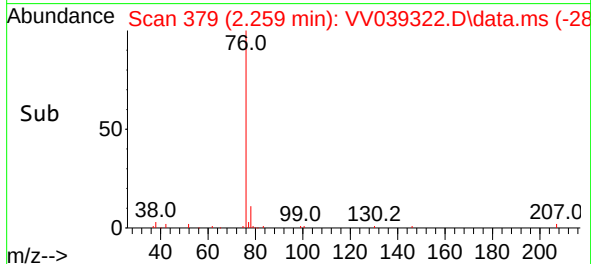
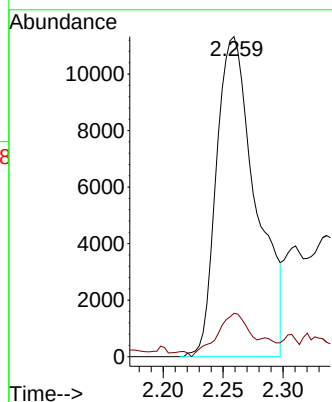
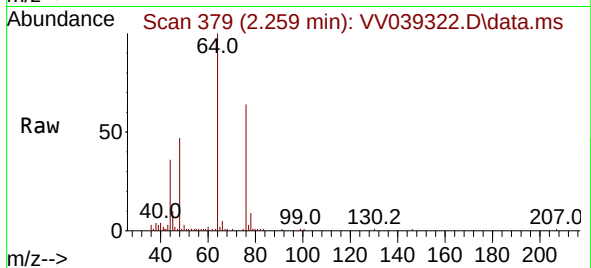




#17
Carbon Disulfide
Concen: 0.743 ug/l
RT: 2.259 min Scan# 31
Delta R.T. 0.007 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

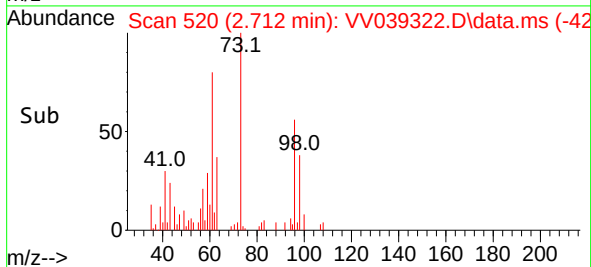
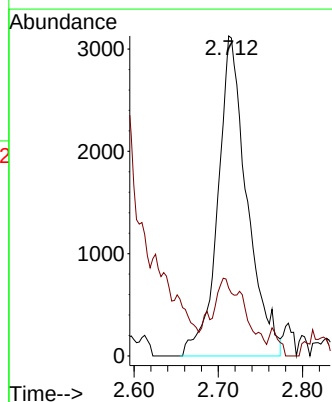
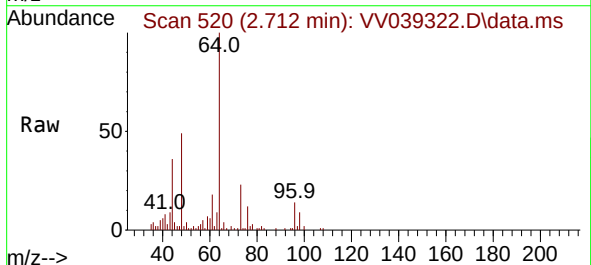
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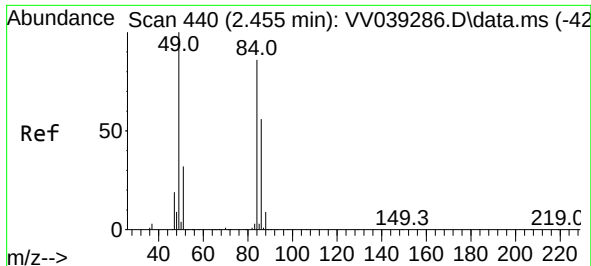
Tgt Ion: 76 Resp: 25913
Ion Ratio Lower Upper
76 100
78 12.0 7.4 11.0#



#19
Methyl tert-butyl Ether
Concen: 0.202 ug/l
RT: 2.712 min Scan# 520
Delta R.T. 0.000 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

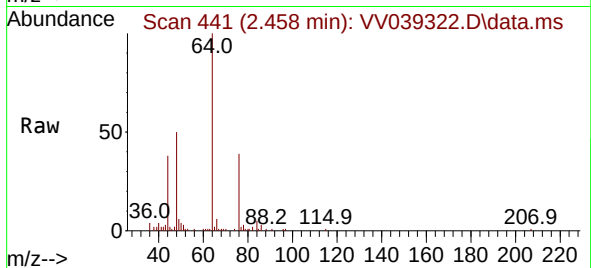
Tgt Ion: 73 Resp: 7499
Ion Ratio Lower Upper
73 100
57 17.0 17.0 25.6#



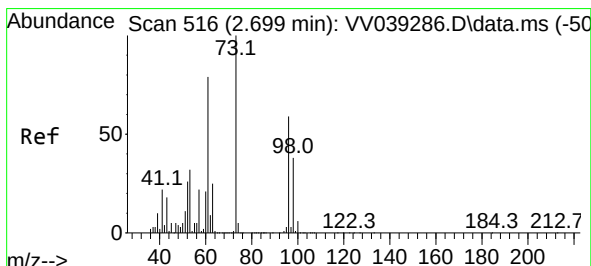
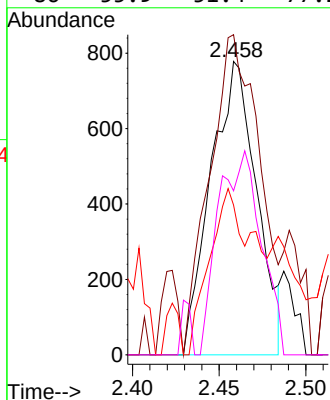
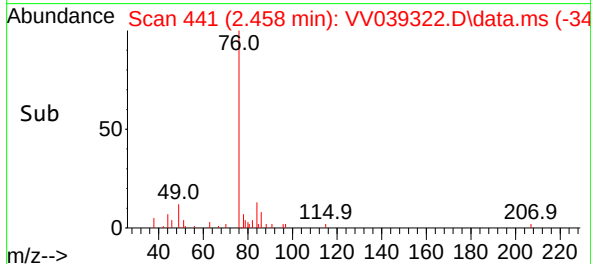


#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

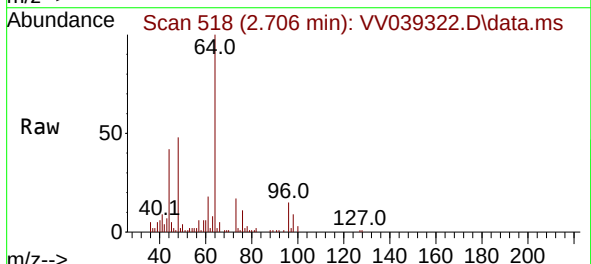
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ClientSampleId :



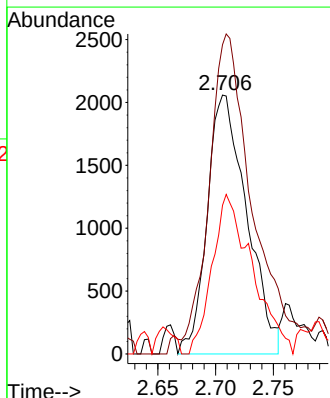
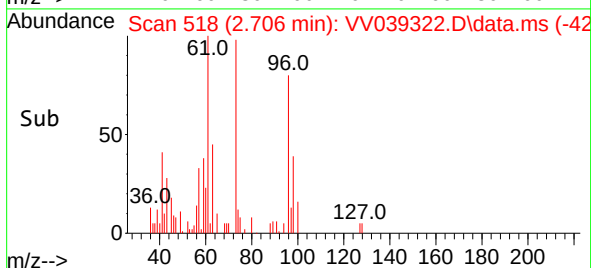
Tgt Ion:	84	Resp:	1433
Ion	Ratio	Lower	Upper
84	100		
49	90.9	92.6	139.0#
51	37.0	29.6	44.4
86	55.9	51.4	77.2

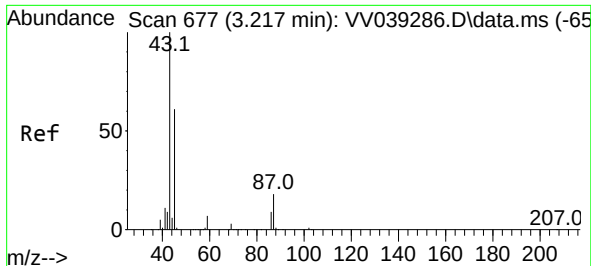


#21
trans-1,2-Dichloroethene
Concen: 0.377 ug/l
RT: 2.706 min Scan# 518
Delta R.T. 0.007 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09



Tgt Ion:	96	Resp:	4905
Ion	Ratio	Lower	Upper
96	100		
61	113.8	106.8	160.2
98	51.8	51.1	76.7

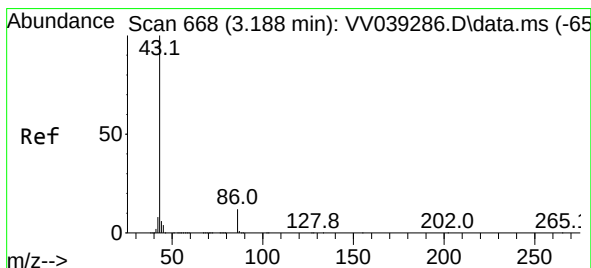
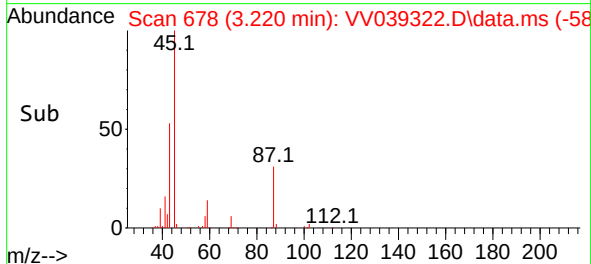
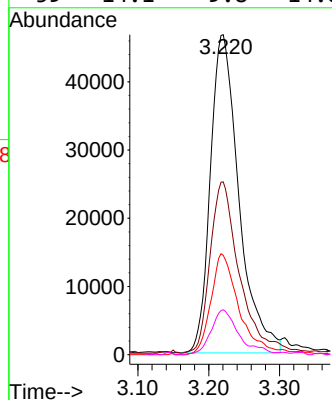
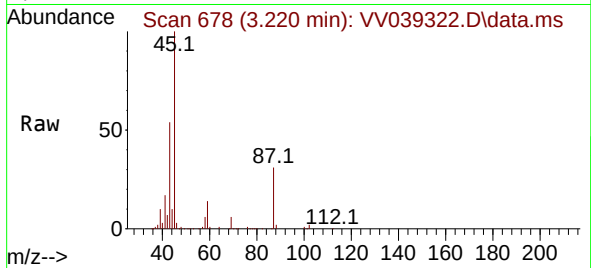




#22
Diisopropyl ether
Concen: 3.721 ug/l
RT: 3.220 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

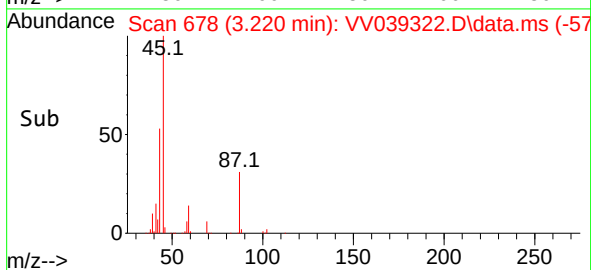
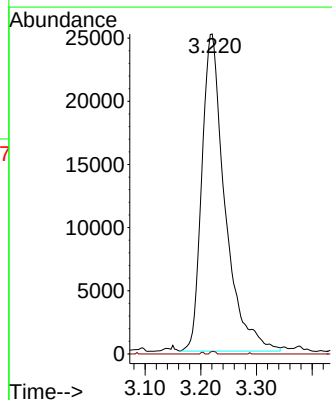
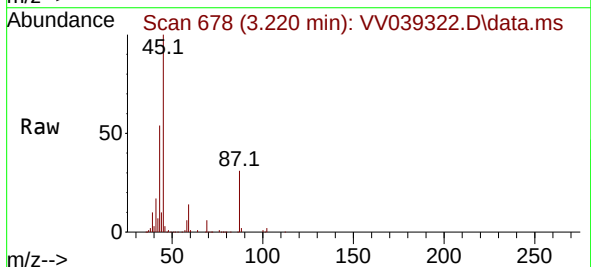
Instrument :
MSVOA_V
ClientSampleId :

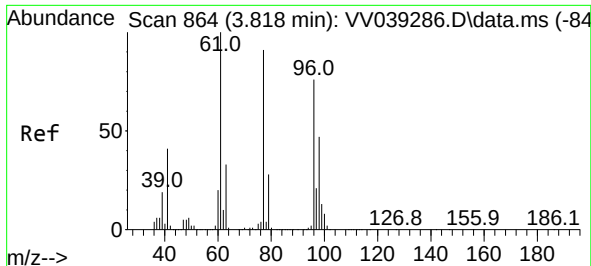
Tgt Ion: 45 Resp: 130825
Ion Ratio Lower Upper
45 100
43 53.7 130.8 196.2#
87 31.2 23.8 35.8
59 14.1 9.8 14.8



#23
Vinyl Acetate
Concen: 2.349 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.032 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

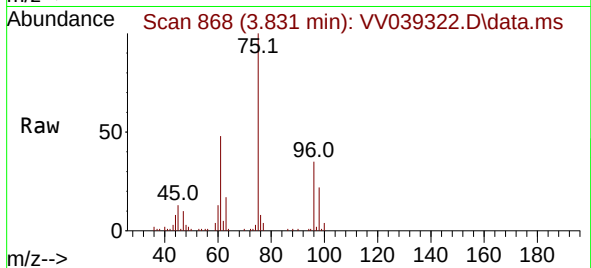
Tgt Ion: 43 Resp: 72497
Ion Ratio Lower Upper
43 100
86 0.8 9.4 14.2#



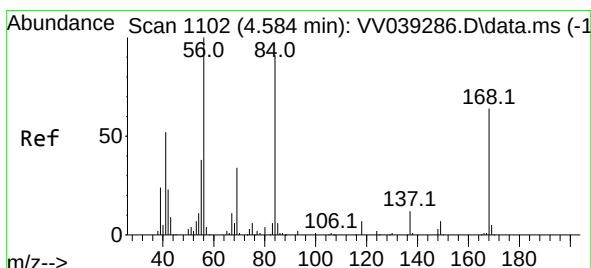
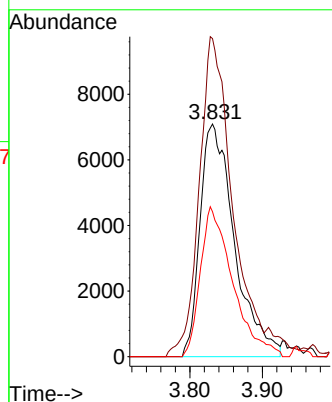
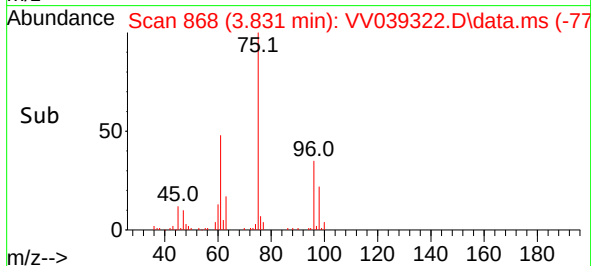


#27
 cis-1,2-Dichloroethene
 Concen: 1.797 ug/l
 RT: 3.831 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VV039322.D
 Acq: 04 Nov 2025 18:09

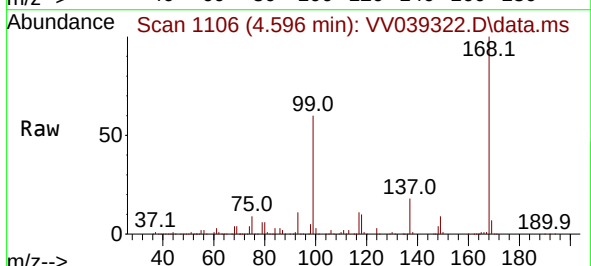
Instrument :
 MSVOA_V
 ClientSampleId :



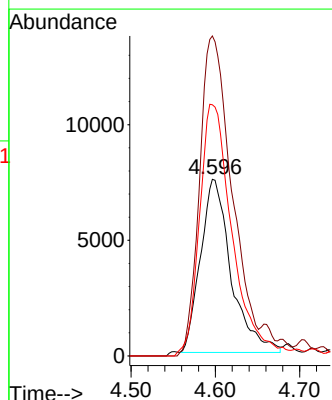
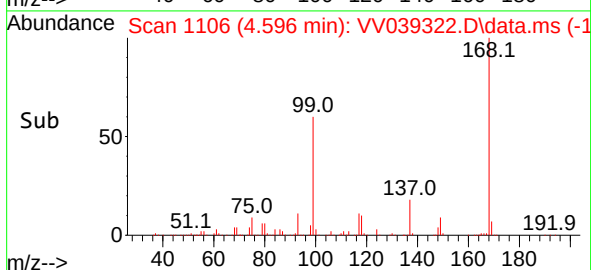
Tgt Ion: 96 Resp: 23404
 Ion Ratio Lower Upper
 96 100
 61 130.5 0.0 275.0
 98 60.5 0.0 127.8

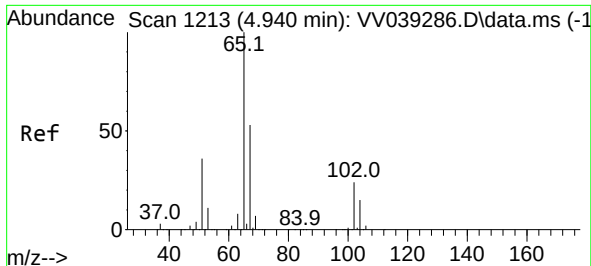


#31
 Cyclohexane
 Concen: 1.107 ug/l
 RT: 4.596 min Scan# 1106
 Delta R.T. 0.013 min
 Lab File: VV039322.D
 Acq: 04 Nov 2025 18:09



Tgt Ion: 56 Resp: 18994
 Ion Ratio Lower Upper
 56 100
 69 182.9 27.4 41.0#
 84 141.4 72.8 109.2#





#33

1,2-Dichloroethane-d4

Concen: 58.028 ug/l

RT: 4.937 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV039322.D

Acq: 04 Nov 2025 18:09

Instrument :

MSVOA_V

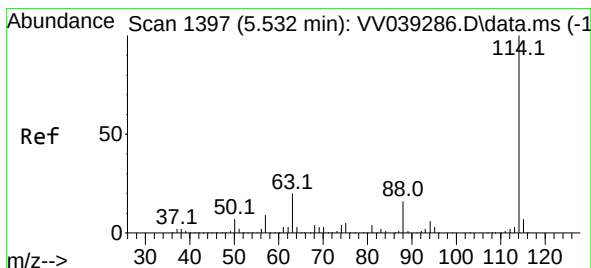
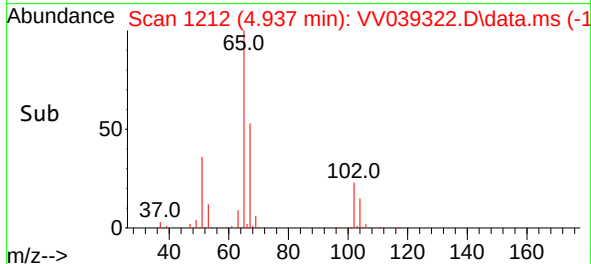
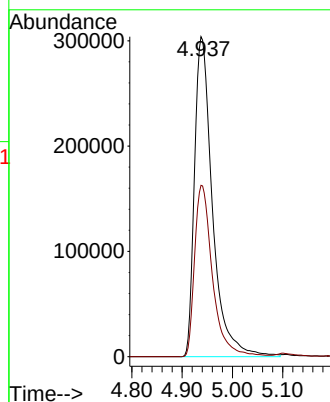
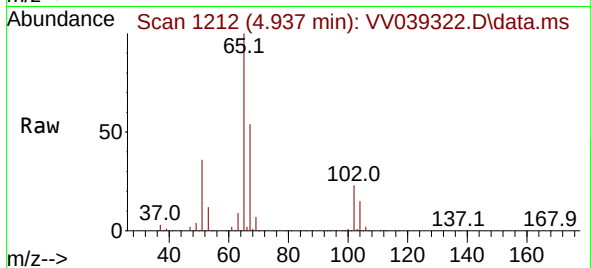
ClientSampleId :

Tgt Ion: 65 Resp: 755450

Ion Ratio Lower Upper

65 100

67 53.3 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VV039322.D

Acq: 04 Nov 2025 18:09

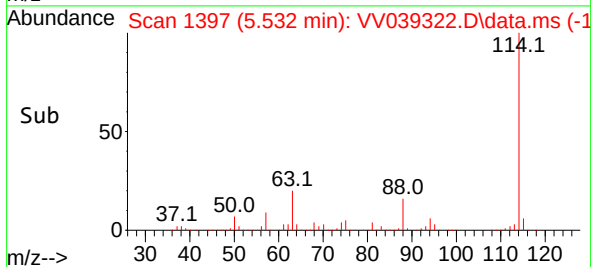
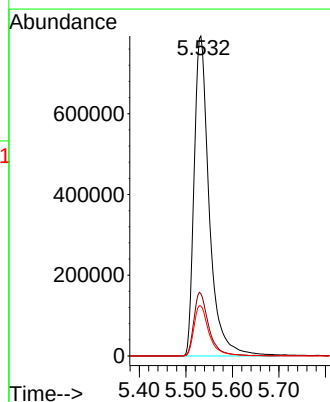
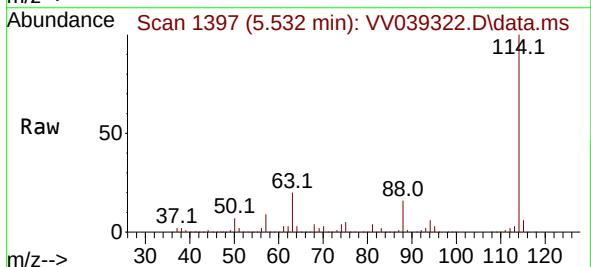
Tgt Ion: 114 Resp: 1787762

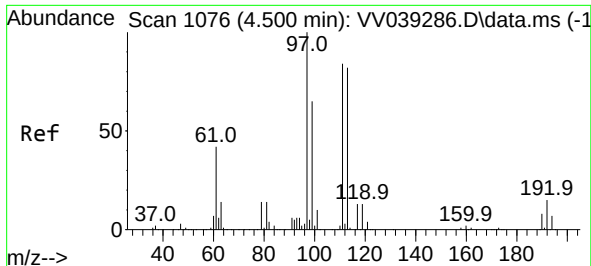
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 15.6 0.0 31.6

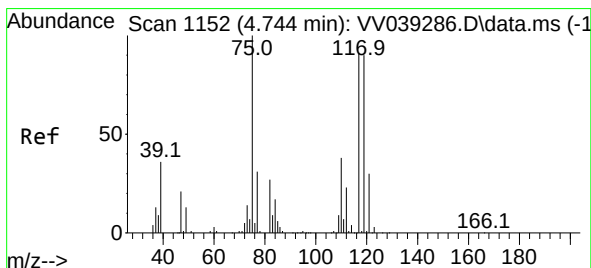
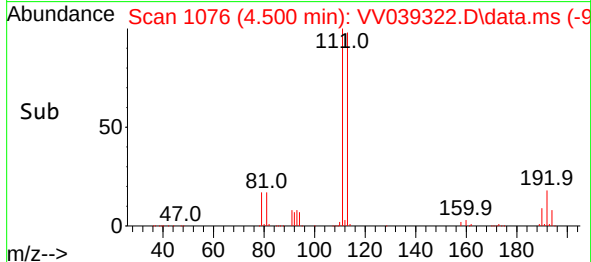
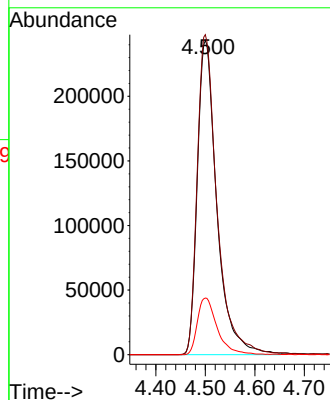
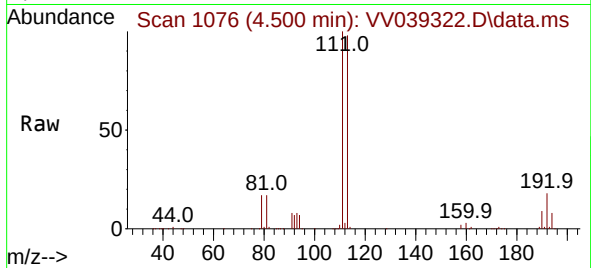




#35
Dibromofluoromethane
Concen: 47.438 ug/l
RT: 4.500 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

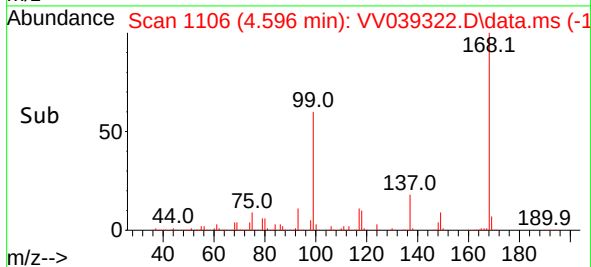
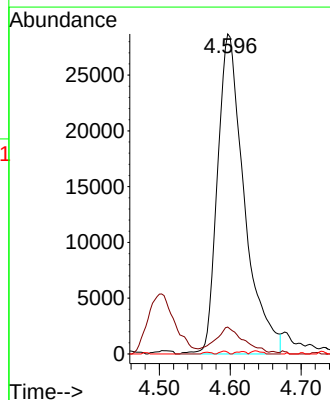
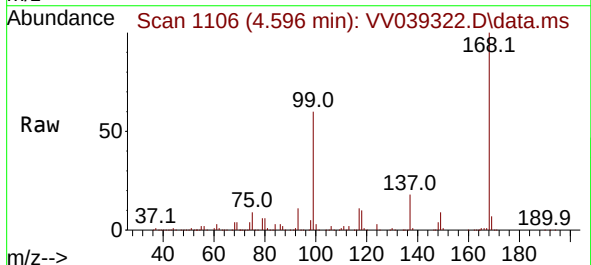
Instrument :
MSVOA_V
ClientSampleId :

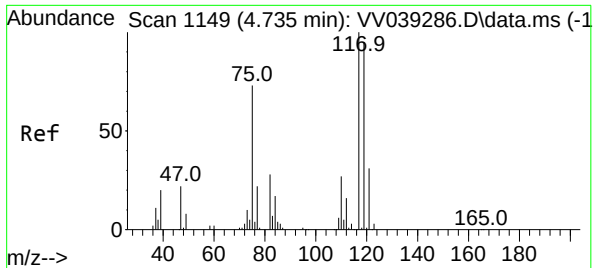
Tgt Ion:113 Resp: 668222
Ion Ratio Lower Upper
113 100
111 102.7 82.0 123.0
192 18.3 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.256 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. -0.148 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 75 Resp: 75290
Ion Ratio Lower Upper
75 100
110 9.2 18.9 56.7#
77 0.2 24.1 36.1#

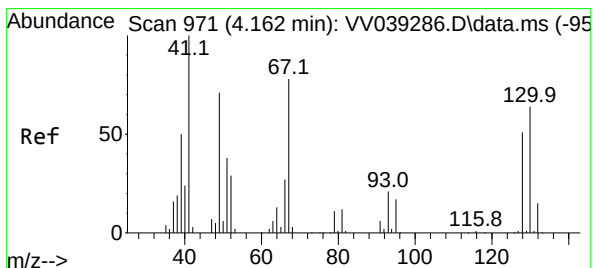
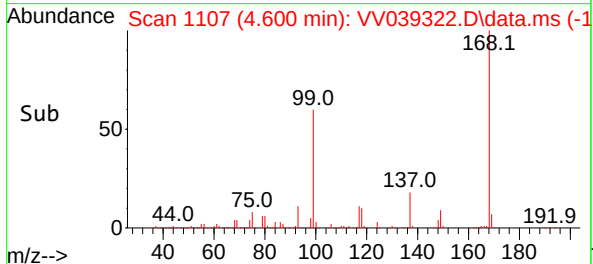
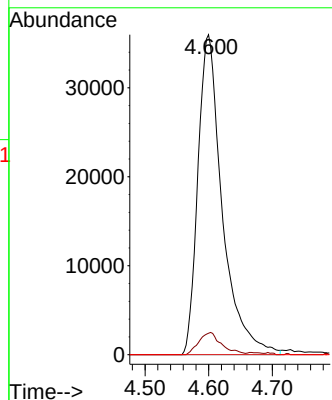
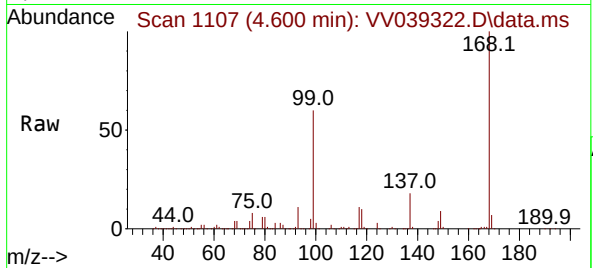




#38
Carbon Tetrachloride
Concen: 4.447 ug/l
RT: 4.600 min Scan# 1149
Delta R.T. -0.135 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

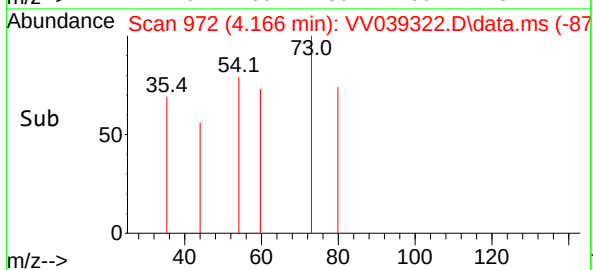
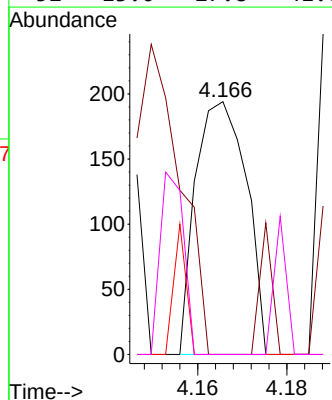
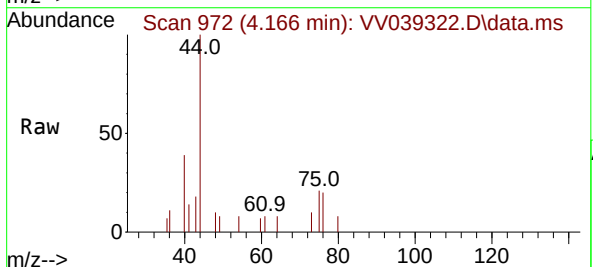
Instrument :
MSVOA_V
ClientSampleId :

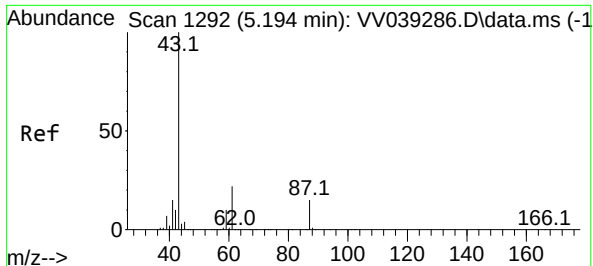
Tgt Ion:117 Resp: 95846
Ion Ratio Lower Upper
117 100
119 6.7 75.9 113.9#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 1.708 ug/l
RT: 4.166 min Scan# 972
Delta R.T. 0.003 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 41 Resp: 154
Ion Ratio Lower Upper
41 100
39 12.3 40.9 61.3#
67 0.0 73.1 109.7#
52 13.0 27.8 41.6#

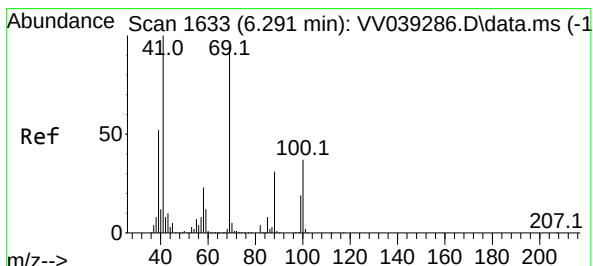
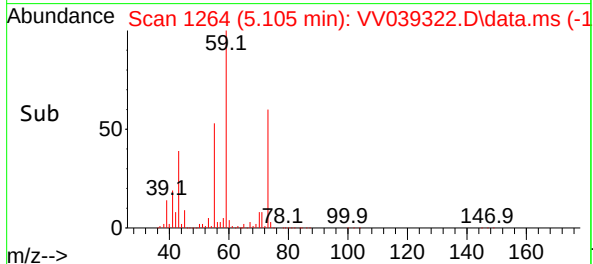
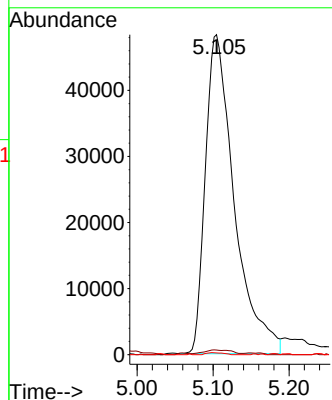
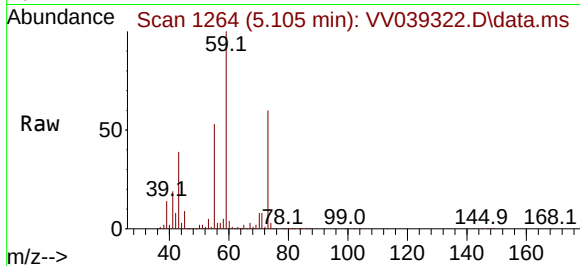




#43
Isopropyl Acetate
Concen: 4.717 ug/l
RT: 5.105 min Scan# 1264
Delta R.T. -0.090 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

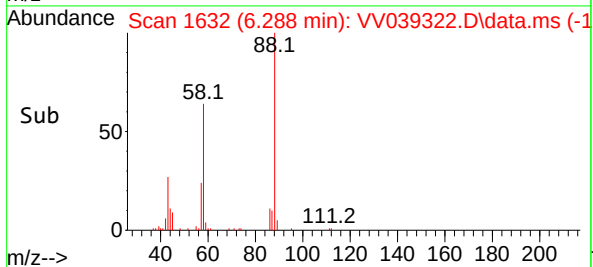
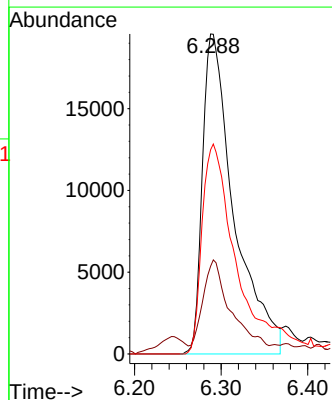
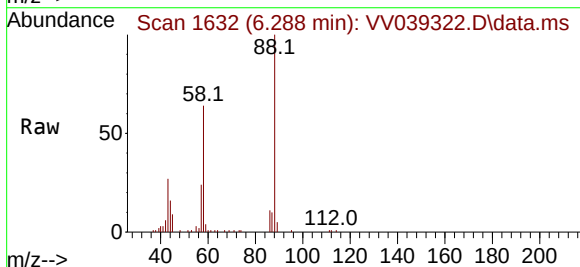
Instrument :
MSVOA_V
ClientSampleId :

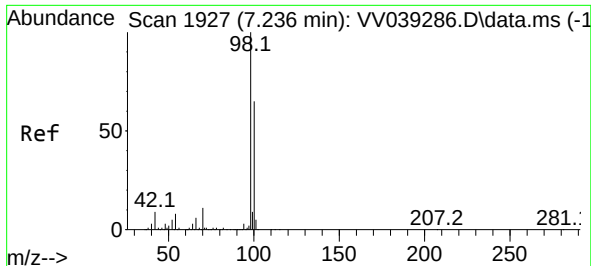
Tgt Ion: 43 Resp: 127898
Ion Ratio Lower Upper
43 100
61 0.6 17.1 25.7#
87 0.4 11.5 17.3#



#49
1,4-Dioxane
Concen: 237.001 ug/l
RT: 6.288 min Scan# 1632
Delta R.T. -0.003 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 88 Resp: 49529
Ion Ratio Lower Upper
88 100
43 23.6 24.1 36.1#
58 72.3 57.6 86.4

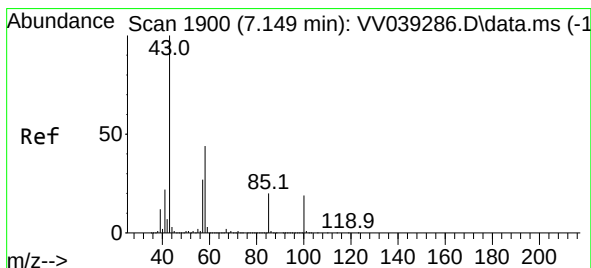
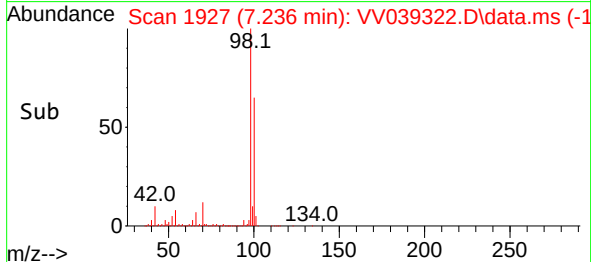
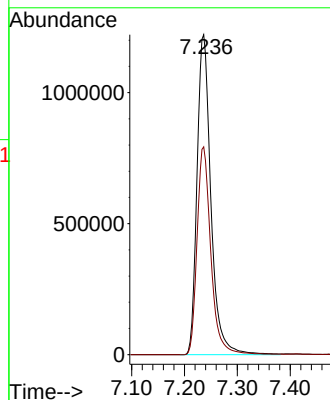
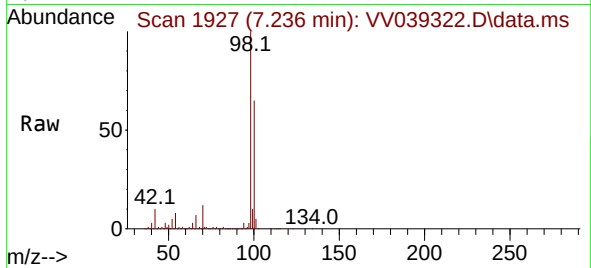




#50
Toluene-d8
Concen: 46.448 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

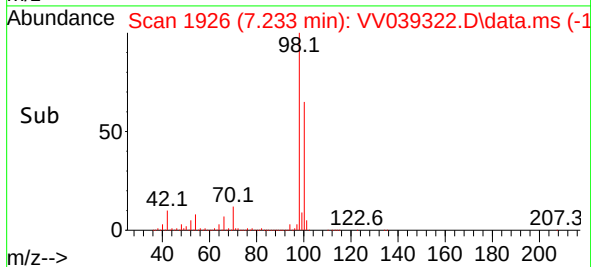
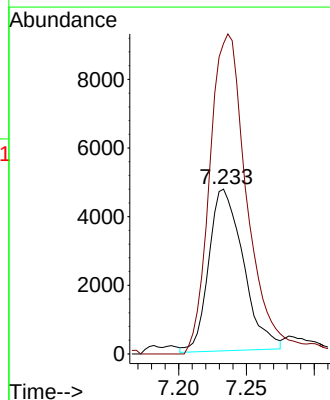
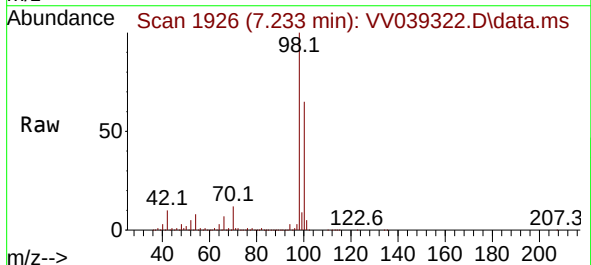
Instrument :
MSVOA_V
ClientSampleId :

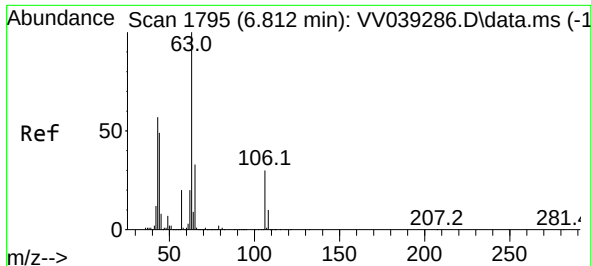
Tgt Ion: 98 Resp: 2225824
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.444 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.084 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 43 Resp: 8350
Ion Ratio Lower Upper
43 100
58 217.2 34.2 51.4#

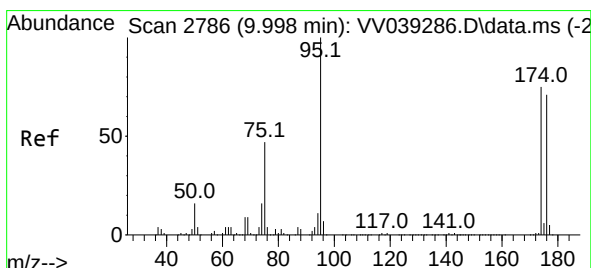
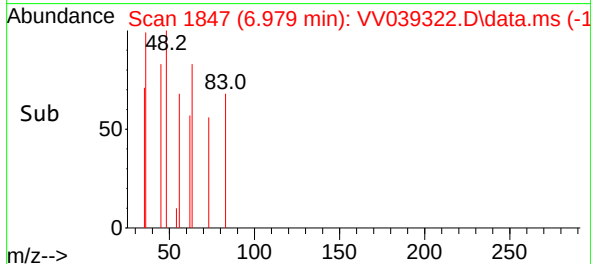
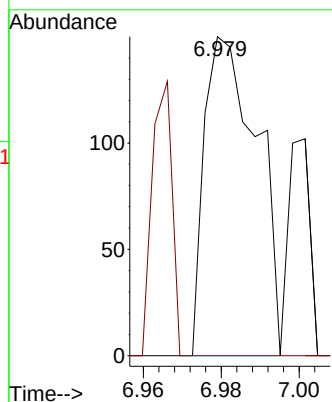
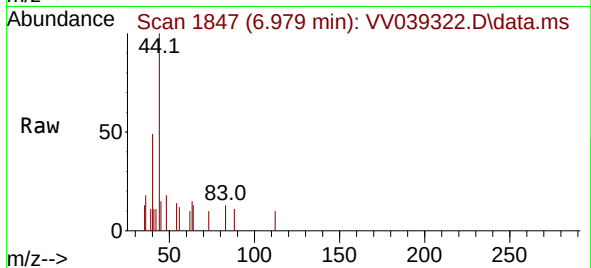




#58
2-Chloroethyl Vinyl ether
Concen: 8.480 ug/l
RT: 6.979 min Scan# 1847
Delta R.T. 0.167 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

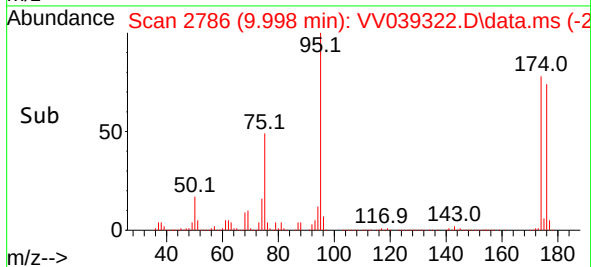
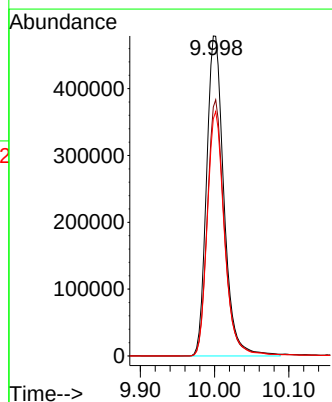
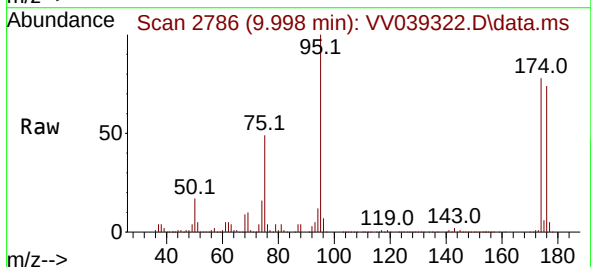
Instrument :
MSVOA_V
ClientSampleId :

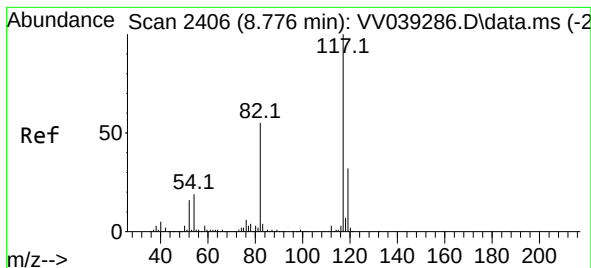
Tgt Ion: 63 Resp: 141
Ion Ratio Lower Upper
63 100
106 32.6 23.5 35.3



#62
4-Bromofluorobenzene
Concen: 45.470 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 95 Resp: 776019
Ion Ratio Lower Upper
95 100
174 79.2 0.0 153.6
176 75.5 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2406

Delta R.T. -0.003 min

Lab File: VV039322.D

Acq: 04 Nov 2025 18:09

Instrument :

MSVOA_V

ClientSampleId :

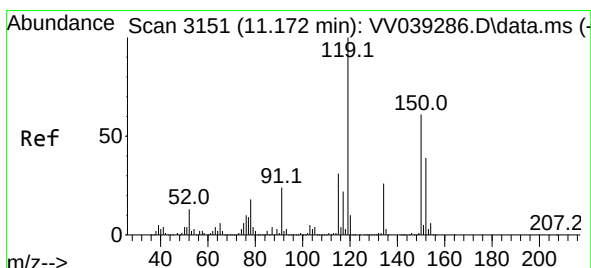
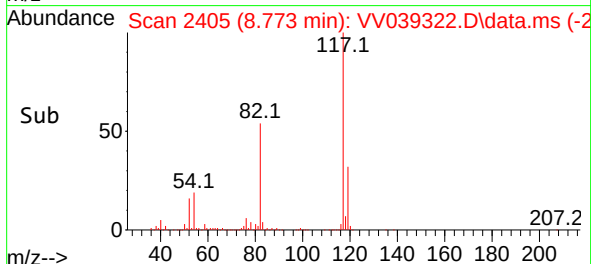
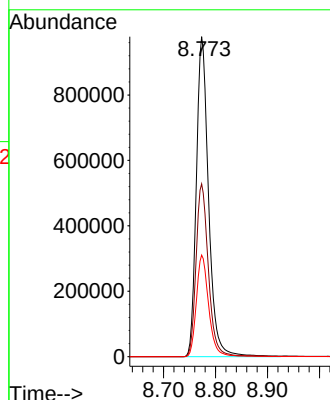
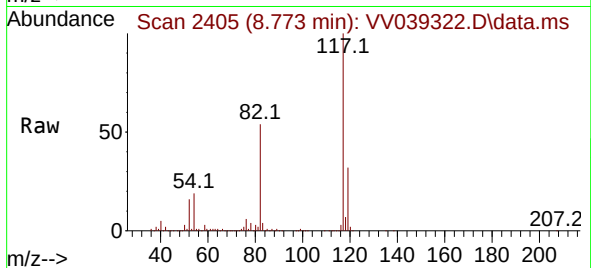
Tgt Ion:117 Resp: 1600815

Ion Ratio Lower Upper

117 100

82 54.0 43.8 65.8

119 31.8 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VV039322.D

Acq: 04 Nov 2025 18:09

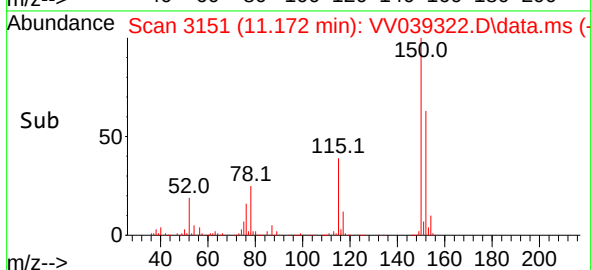
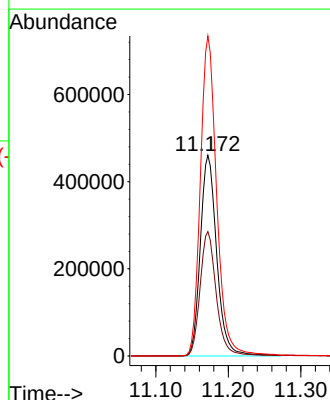
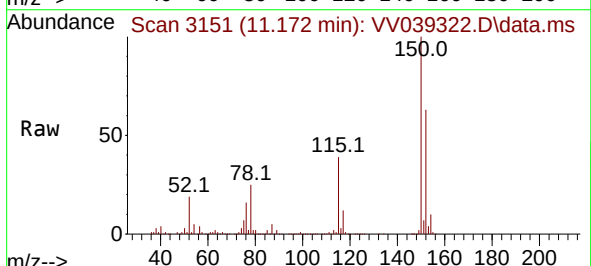
Tgt Ion:152 Resp: 725582

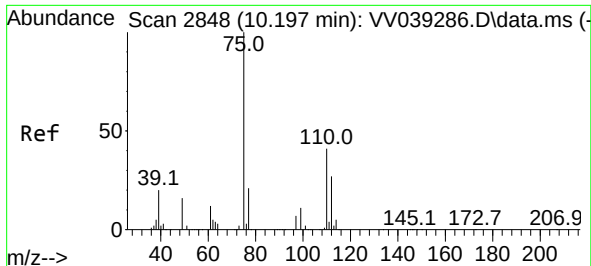
Ion Ratio Lower Upper

152 100

115 61.1 42.3 126.8

150 158.4 0.0 348.0

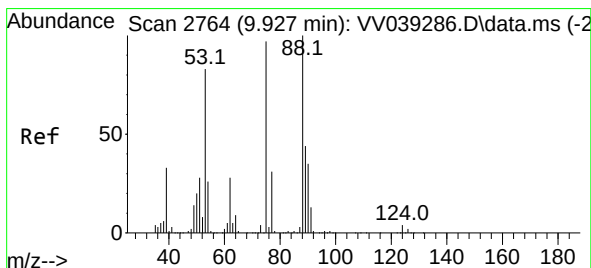
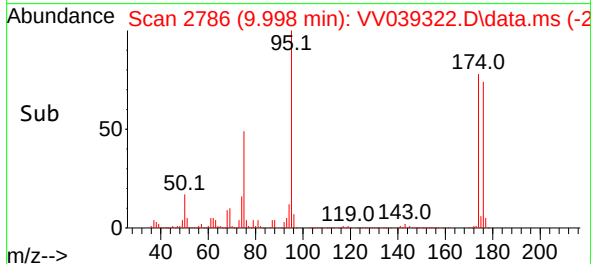
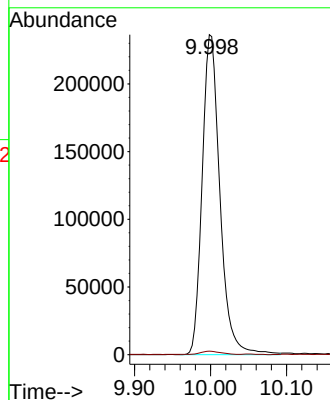
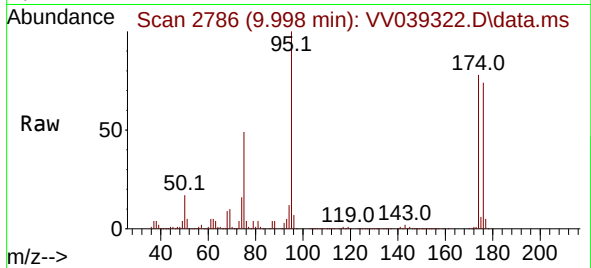




#76
1,2,3-Trichloropropane
Concen: 26.499 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.199 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 383757
Ion Ratio Lower Upper
75 100
77 1.2 12.2 36.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.924 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.071 min
Lab File: VV039322.D
Acq: 04 Nov 2025 18:09

Tgt Ion: 75 Resp: 383757
Ion Ratio Lower Upper
75 100
53 0.3 69.9 104.9#
89 0.0 37.4 56.0#

