

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039323.D
 Acq On : 04 Nov 2025 18:32
 Operator : SY/MD
 Sample : Q3534-03
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:41:30 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)

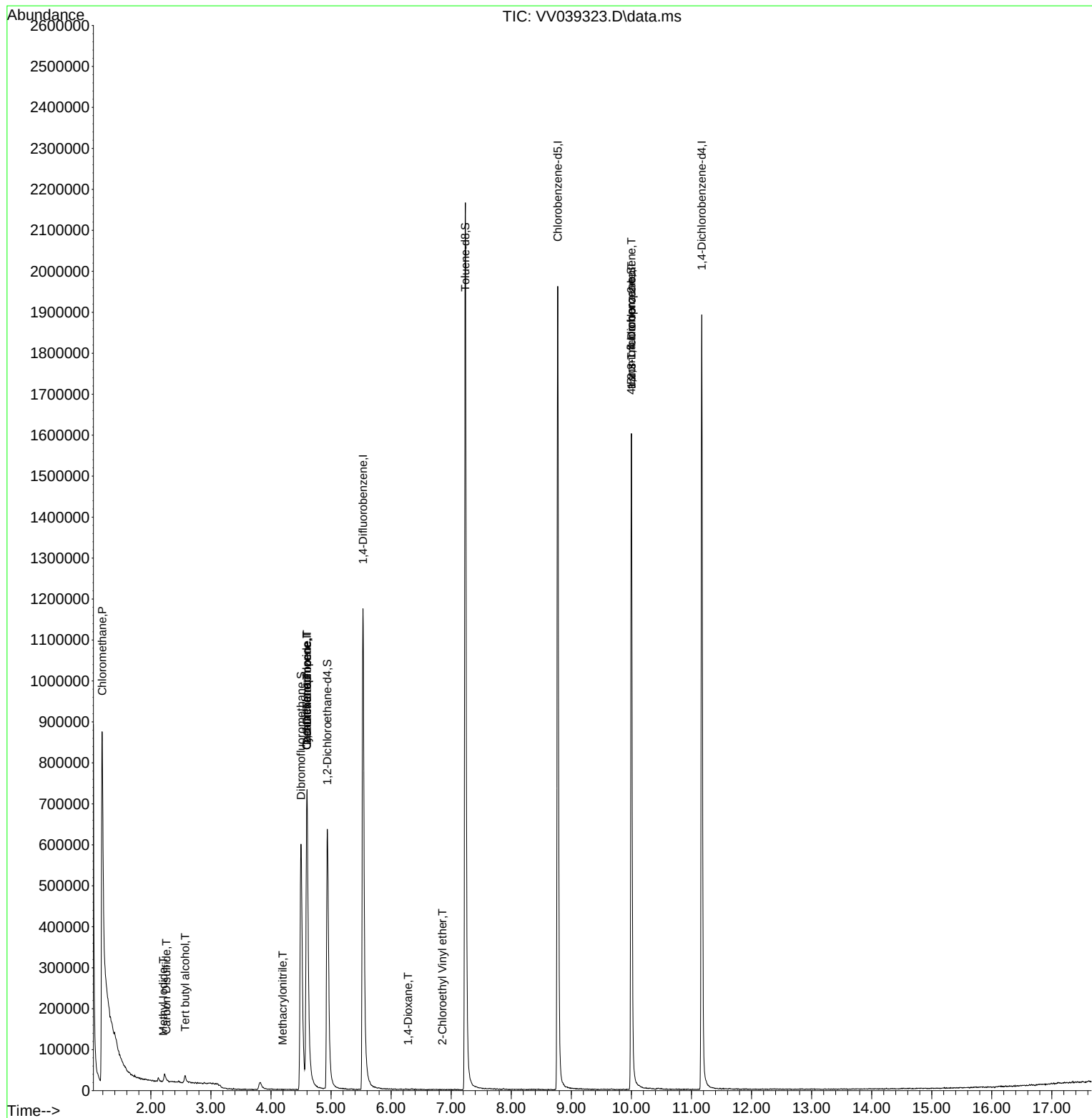
Internal Standards						
1) Pentafluorobenzene	4.600	168	635366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1165878	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1122738	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	520406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	575110	63.701	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 127.400%#	
35) Dibromofluoromethane	4.500	113	504189	54.885	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 109.760%	
50) Toluene-d8	7.236	98	1571852	50.297	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 100.600%	
62) 4-Bromofluorobenzene	9.998	95	546785	49.128	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 98.260%	
Target Compounds						Qvalue
3) Chloromethane	1.192	50	38320	4.583	ug/l #	42
10) Methyl Iodide	2.204	142	1652	0.220	ug/l #	92
11) Tert butyl alcohol	2.571	59	10599	6.058	ug/l #	85
13) Acrolein	1.995	56	178	Below Cal	#	1
16) Acetone	2.127	43	8765	Below Cal		93
17) Carbon Disulfide	2.259	76	5629	0.233	ug/l	98
20) Methylene Chloride	2.458	84	599	Below Cal	#	7
31) Cyclohexane	4.597	56	13138	1.104	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	50092	4.341	ug/l #	48
38) Carbon Tetrachloride	4.597	117	65446	4.656	ug/l #	18
41) Methacrylonitrile	4.195	41	207	1.726	ug/l #	17
49) 1,4-Dioxane	6.281	88	47	0.345	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.854	63	43	8.474	ug/l #	45
76) 1,2,3-Trichloropropane	10.001	75	267779	25.781	ug/l #	54
81) trans-1,4-Dichloro-2-b...	10.001	75	267779	65.109	ug/l #	14

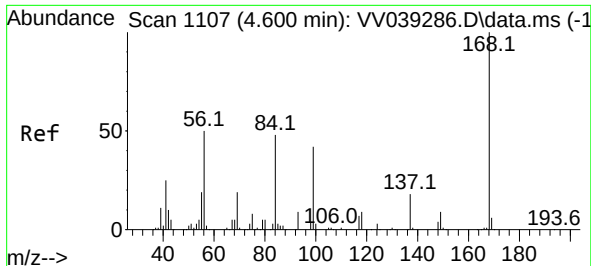
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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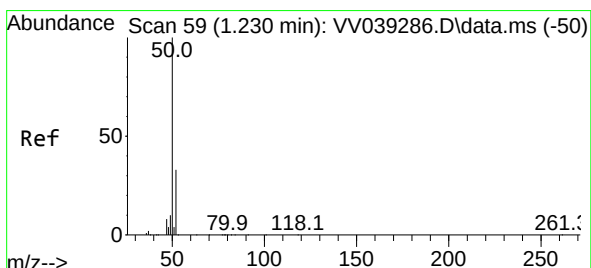
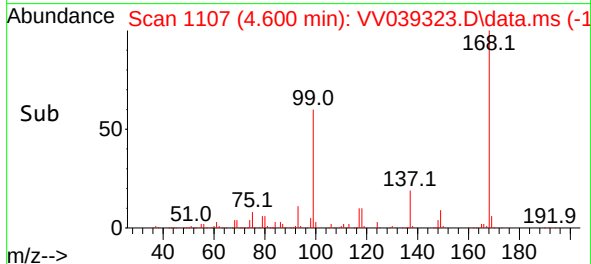
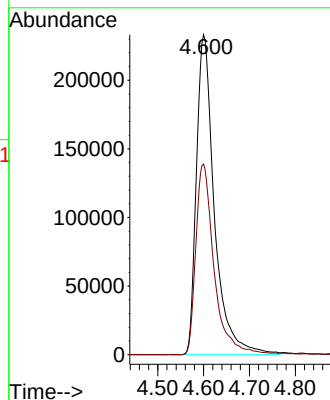
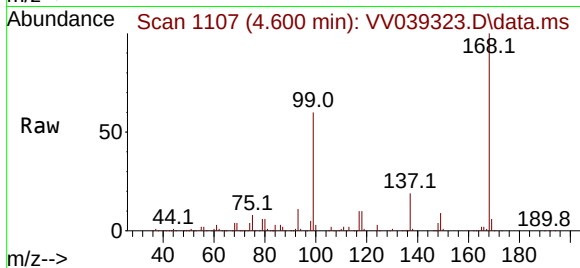




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

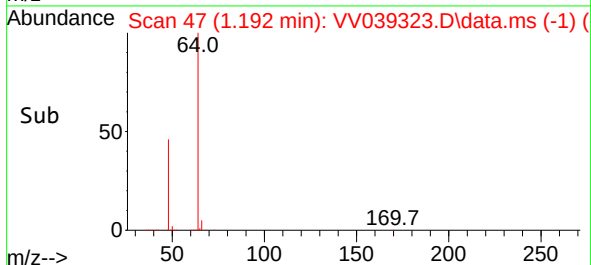
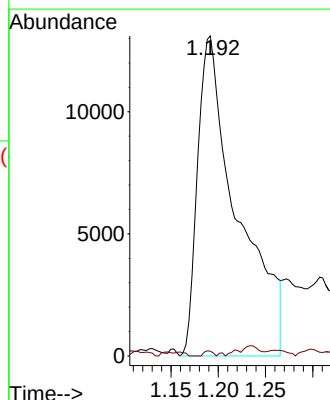
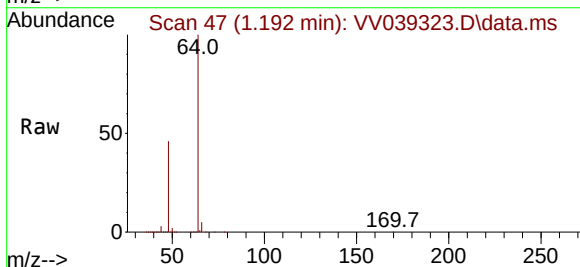
Instrument :
MSVOA_V
ClientSampleId :

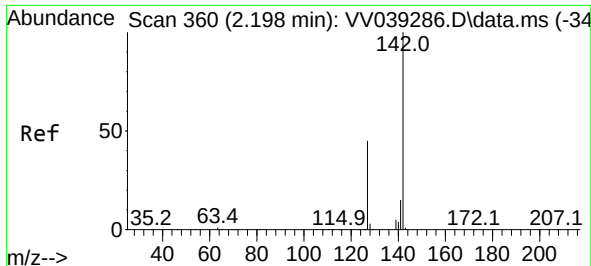
Tgt Ion:168 Resp: 635366
Ion Ratio Lower Upper
168 100
99 59.6 46.6 70.0



#3
Chloromethane
Concen: 4.583 ug/l
RT: 1.192 min Scan# 47
Delta R.T. -0.038 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

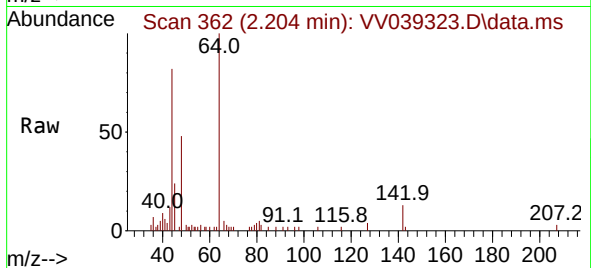
Tgt Ion: 50 Resp: 38320
Ion Ratio Lower Upper
50 100
52 0.3 26.6 39.8#



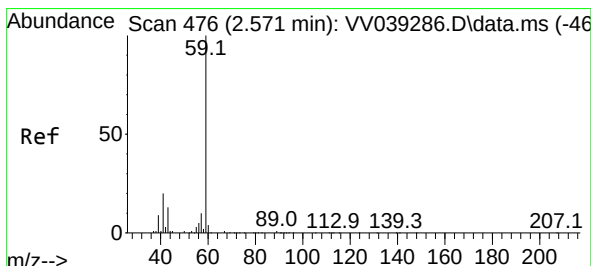
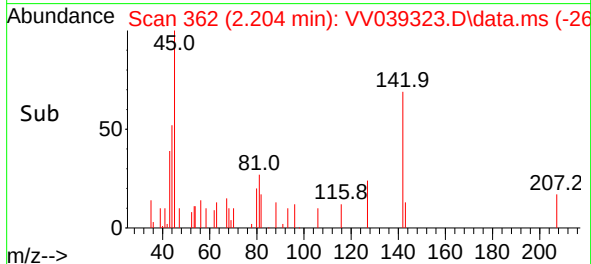
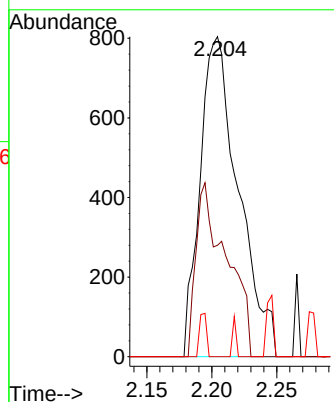


#10
Methyl Iodide
Concen: 0.220 ug/l
RT: 2.204 min Scan# 362
Delta R.T. 0.007 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Instrument :
MSVOA_V
ClientSampleId :

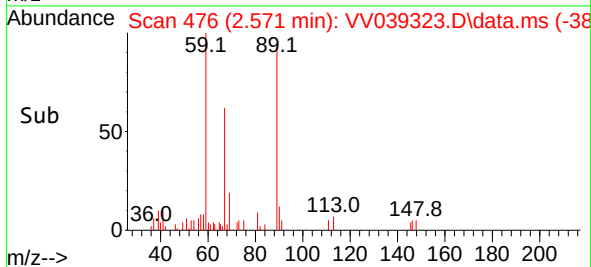
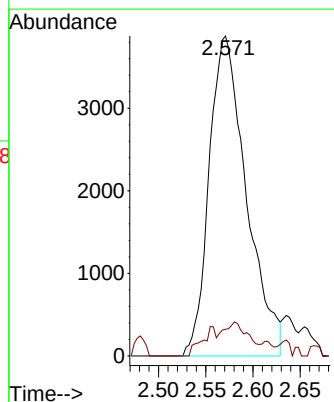
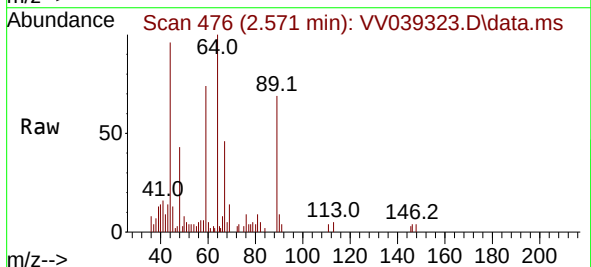


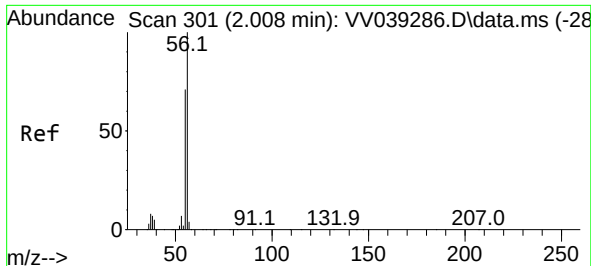
Tgt Ion:142 Resp: 1652
Ion Ratio Lower Upper
142 100
127 43.5 35.5 53.3
141 2.5 11.5 17.3#



#11
Tert butyl alcohol
Concen: 6.058 ug/l
RT: 2.571 min Scan# 476
Delta R.T. 0.000 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion: 59 Resp: 10599
Ion Ratio Lower Upper
59 100
57 4.4 8.1 12.1#

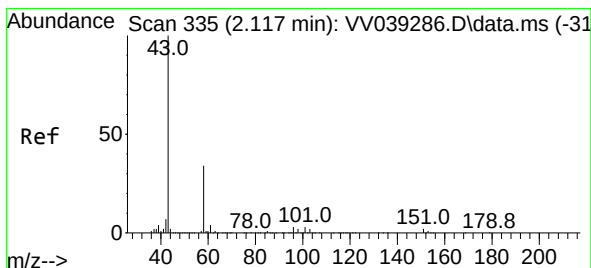
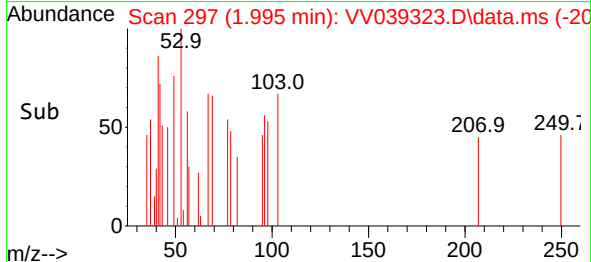
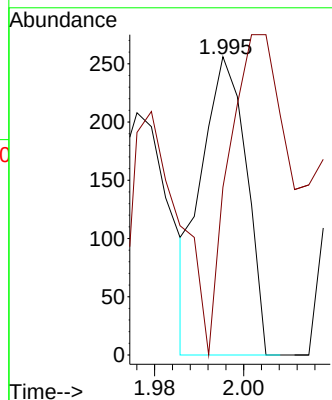
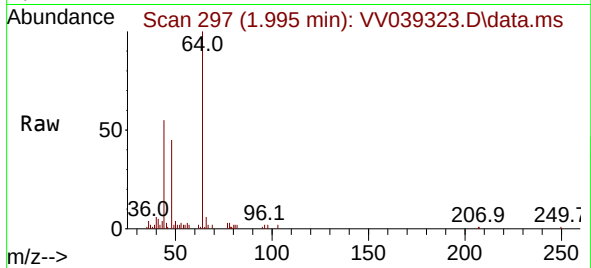




#13
Acrolein
Concen: Below Cal
RT: 1.995 min Scan# 24
Delta R.T. -0.013 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

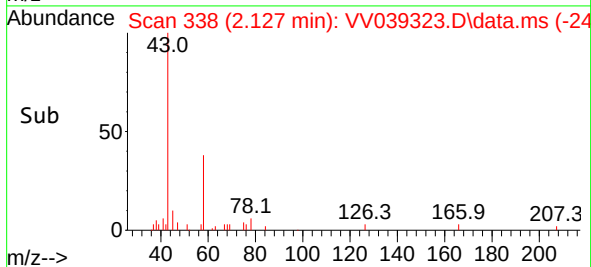
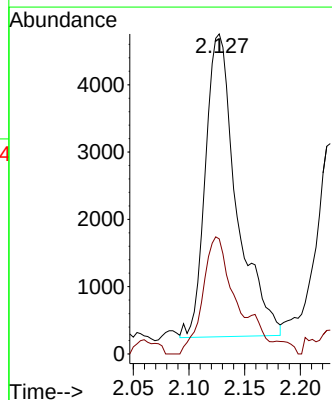
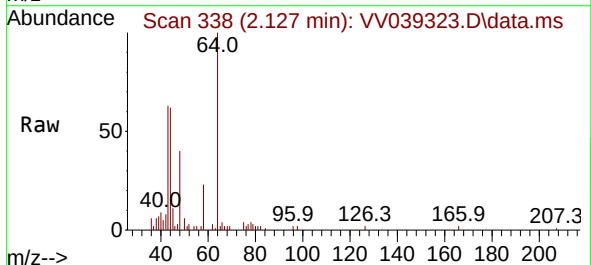
Instrument :
MSVOA_V
ClientSampleId :

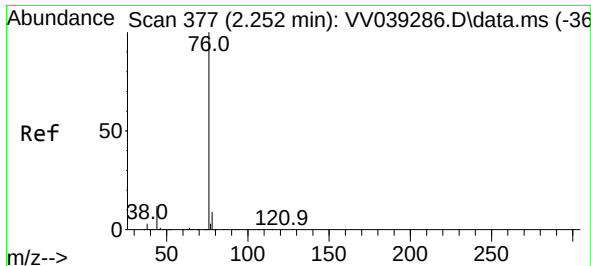
Tgt Ion: 56 Resp: 178
Ion Ratio Lower Upper
56 100
55 152.2 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.010 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion: 43 Resp: 8765
Ion Ratio Lower Upper
43 100
58 38.2 27.5 41.3

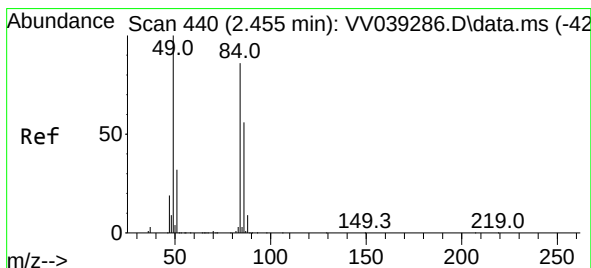
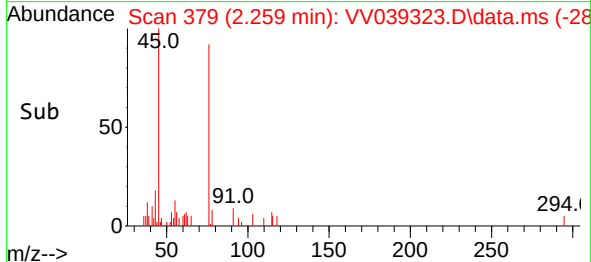
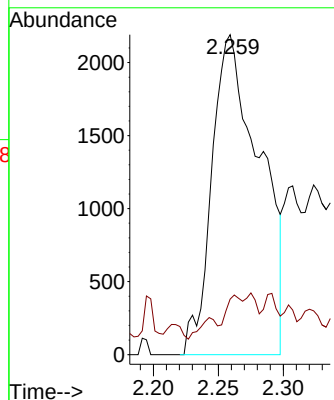
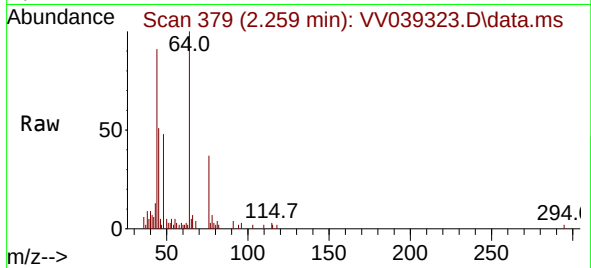




#17
Carbon Disulfide
Concen: 0.233 ug/l
RT: 2.259 min Scan# 31
Delta R.T. 0.007 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

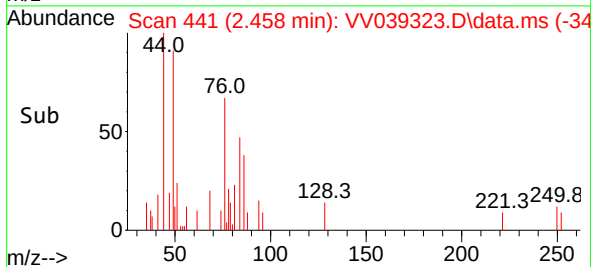
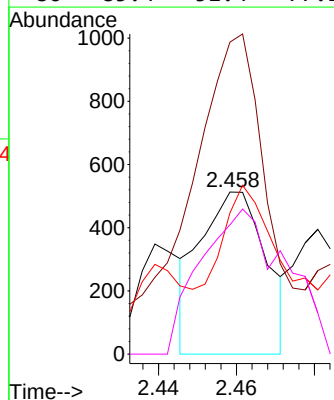
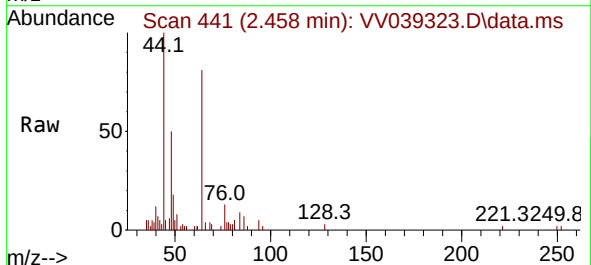
Instrument :
MSVOA_V
ClientSampleId :

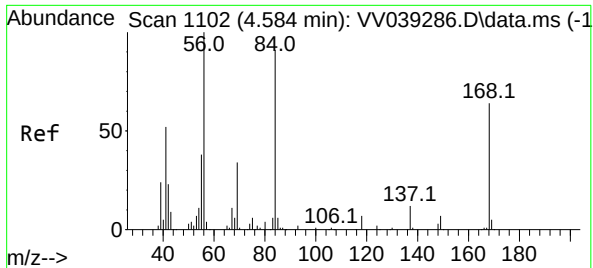
Tgt Ion: 76 Resp: 5629
Ion Ratio Lower Upper
76 100
78 8.5 7.4 11.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion: 84 Resp: 599
Ion Ratio Lower Upper
84 100
49 261.6 92.6 139.0#
51 86.2 29.6 44.4#
86 85.4 51.4 77.2#

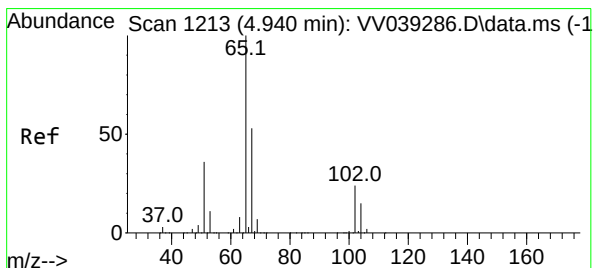
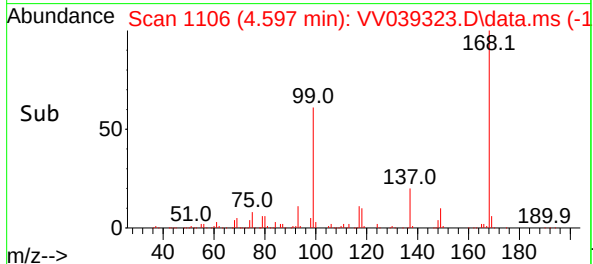
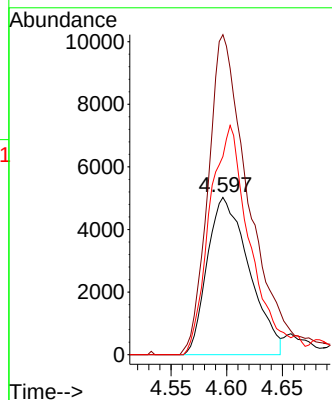
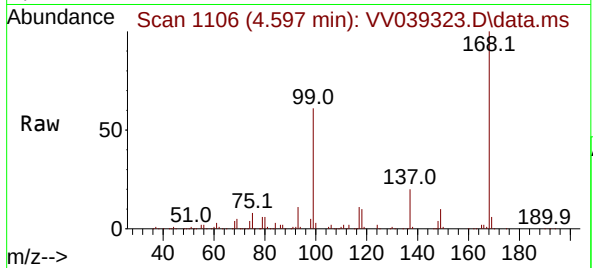




#31
Cyclohexane
Concen: 1.104 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

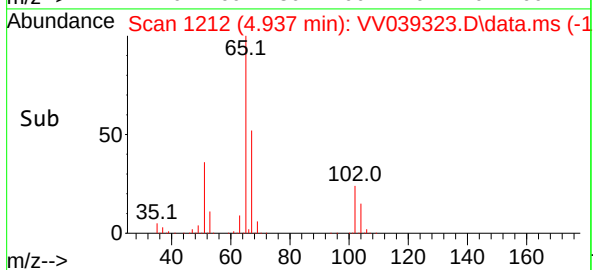
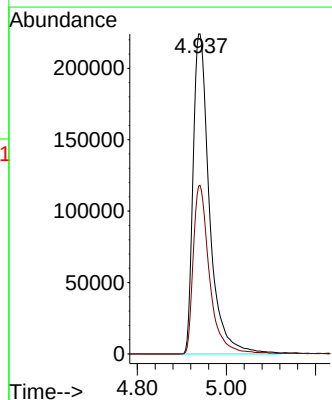
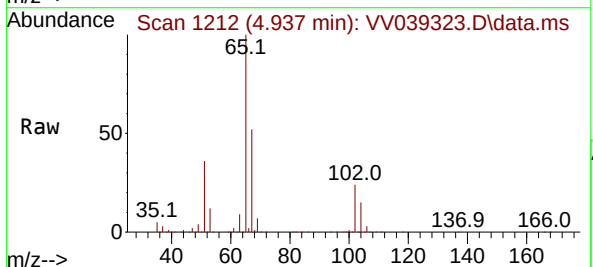
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MSVOA_V
ClientSampleId :

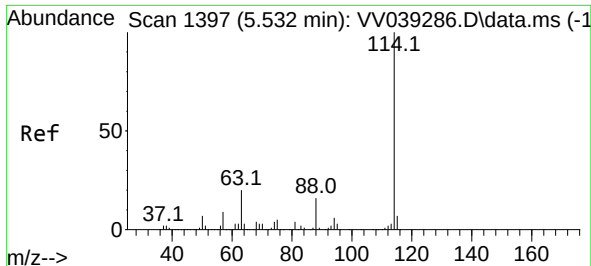
Tgt Ion: 56 Resp: 13138
Ion Ratio Lower Upper
56 100
69 203.4 27.4 41.0#
84 126.1 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 63.701 ug/l
RT: 4.937 min Scan# 1212
Delta R.T. -0.003 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion: 65 Resp: 575110
Ion Ratio Lower Upper
65 100
67 52.0 0.0 108.4

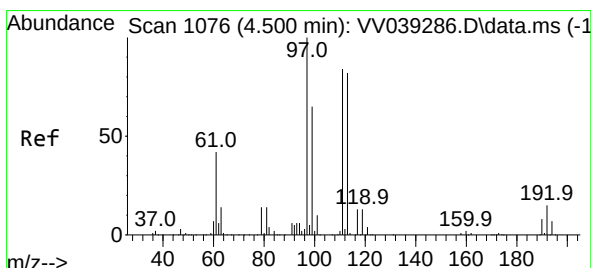
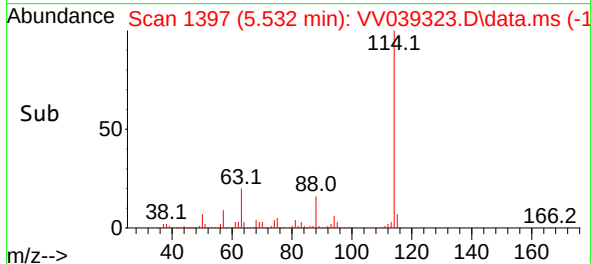
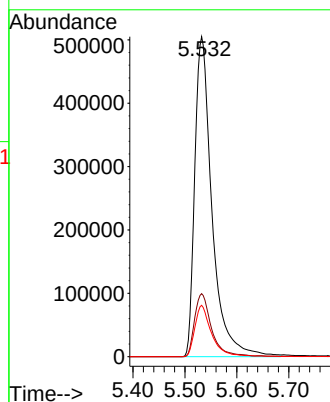
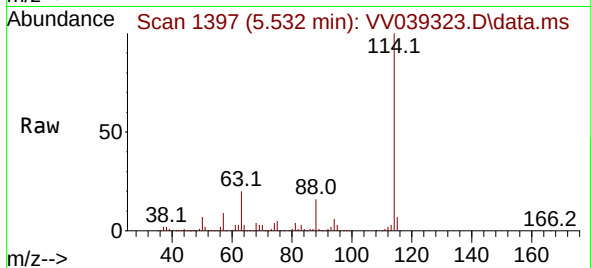




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

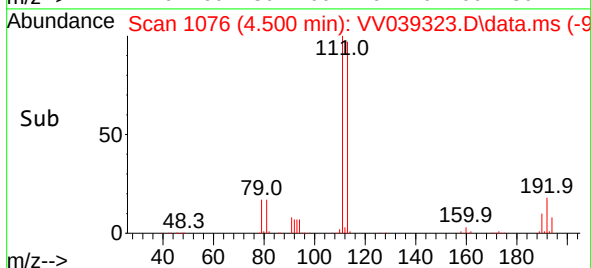
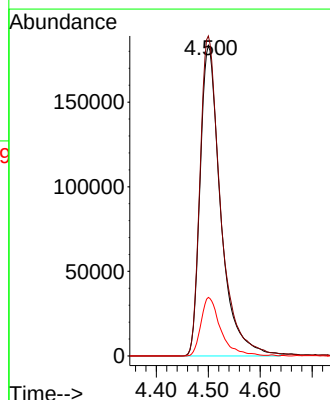
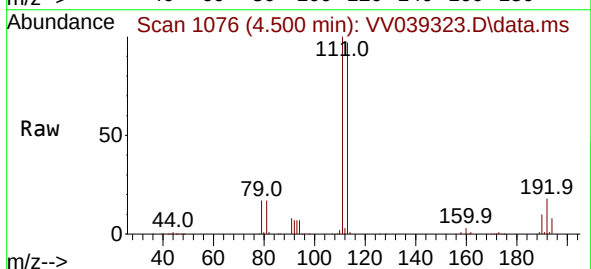
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MSVOA_V
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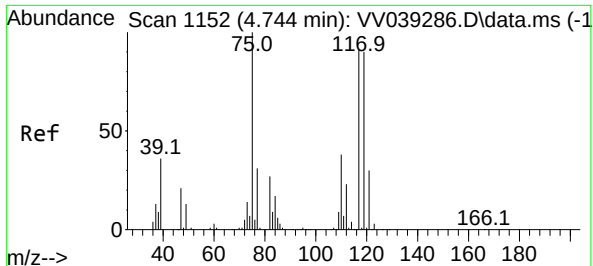
Tgt Ion:114 Resp: 1165878
Ion Ratio Lower Upper
114 100
63 19.7 0.0 39.6
88 16.1 0.0 31.6



#35
Dibromofluoromethane
Concen: 54.885 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.000 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion:113 Resp: 504189
Ion Ratio Lower Upper
113 100
111 103.3 82.0 123.0
192 18.1 14.3 21.5

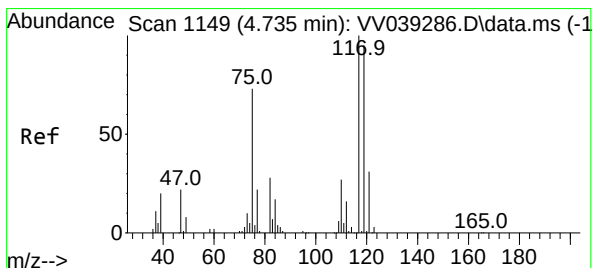
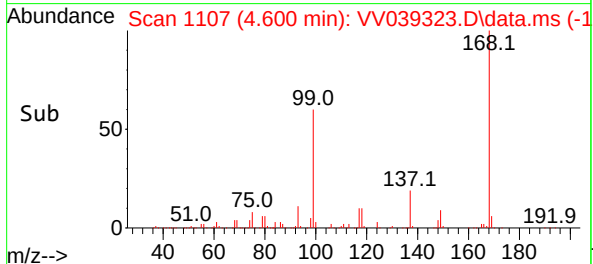
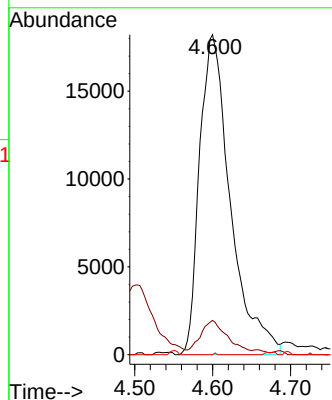
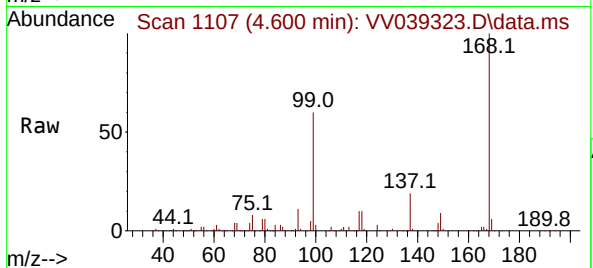




#36
 1,1-Dichloropropene
 Concen: 4.341 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.145 min
 Lab File: VV039323.D
 Acq: 04 Nov 2025 18:32

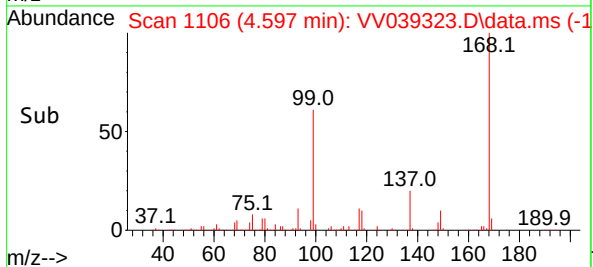
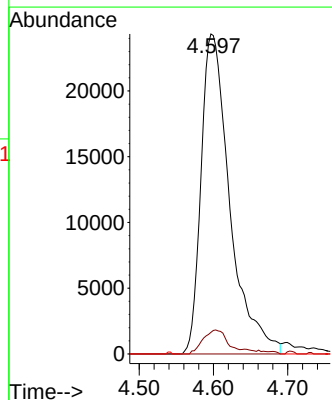
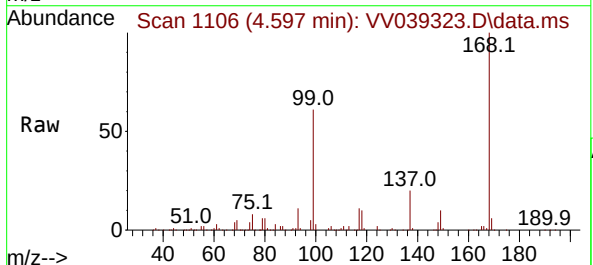
Instrument :
 MSVOA_V
 ClientSampleId :

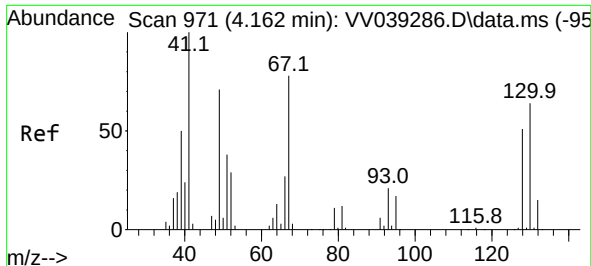
Tgt Ion: 75 Resp: 50092
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.9 56.7#
 77 0.0 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 4.656 ug/l
 RT: 4.597 min Scan# 1106
 Delta R.T. -0.138 min
 Lab File: VV039323.D
 Acq: 04 Nov 2025 18:32

Tgt Ion: 117 Resp: 65446
 Ion Ratio Lower Upper
 117 100
 119 6.7 75.9 113.9#
 121 0.0 24.6 37.0#

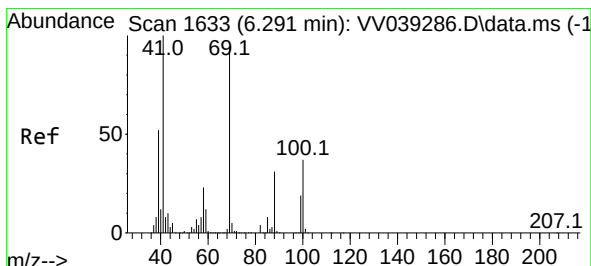
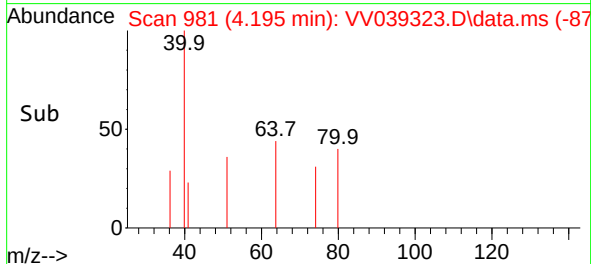
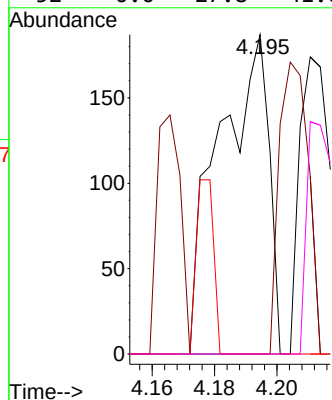
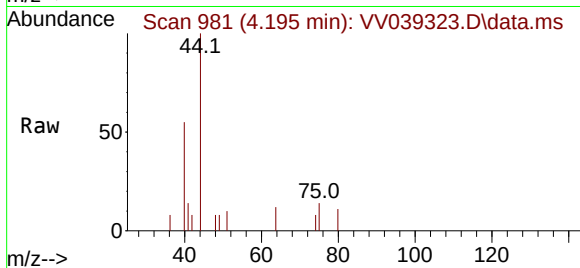




#41
Methacrylonitrile
Concen: 1.726 ug/l
RT: 4.195 min Scan# 91
Delta R.T. 0.032 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

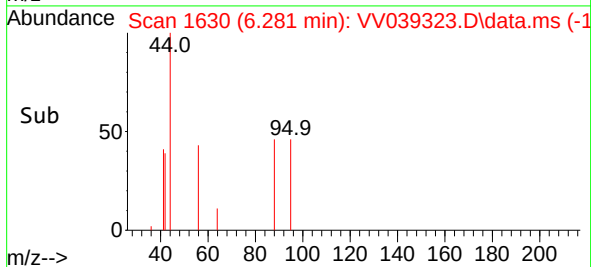
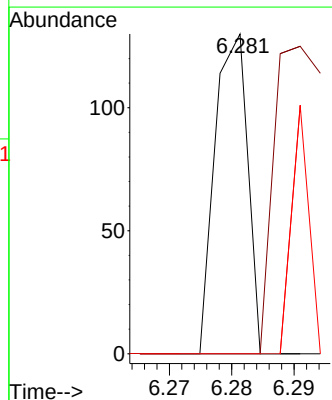
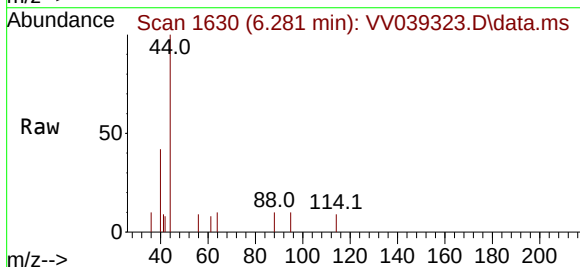
Instrument :
MSVOA_V
ClientSampleId :

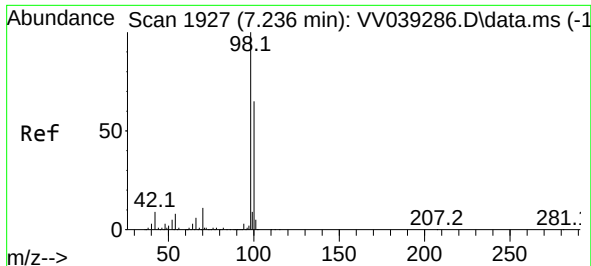
Tgt Ion:	41	Resp:	207
Ion	Ratio	Lower	Upper
41	100		
39	0.0	40.9	61.3#
67	0.0	73.1	109.7#
52	0.0	27.8	41.6#



#49
1,4-Dioxane
Concen: 0.345 ug/l
RT: 6.281 min Scan# 1630
Delta R.T. -0.010 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion:	88	Resp:	47
Ion	Ratio	Lower	Upper
88	100		
43	251.1	24.1	36.1#
58	40.4	57.6	86.4#

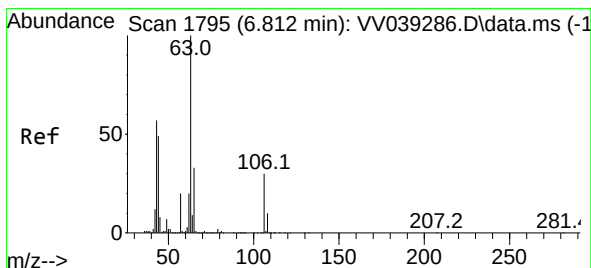
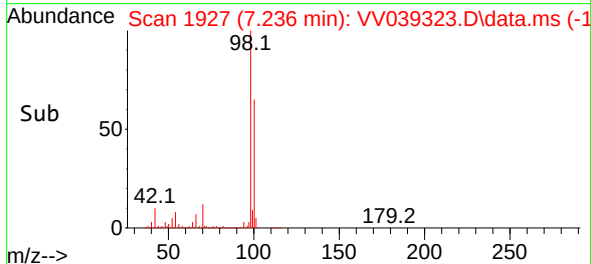
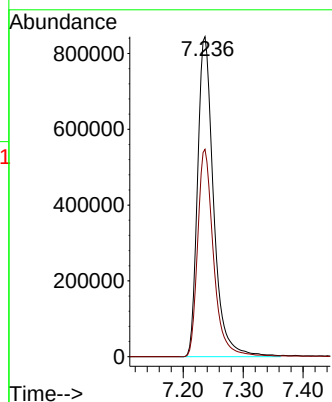
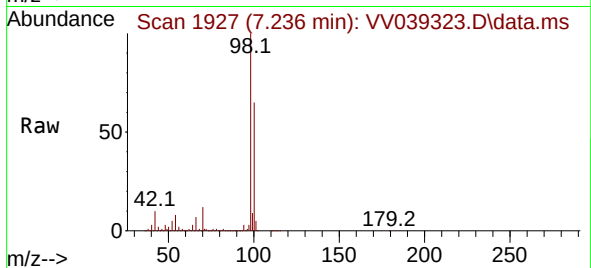




#50
Toluene-d8
Concen: 50.297 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

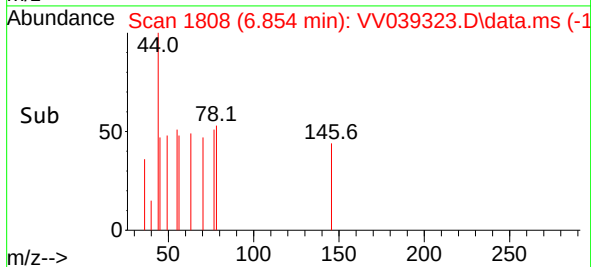
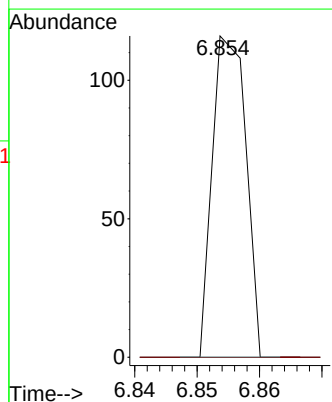
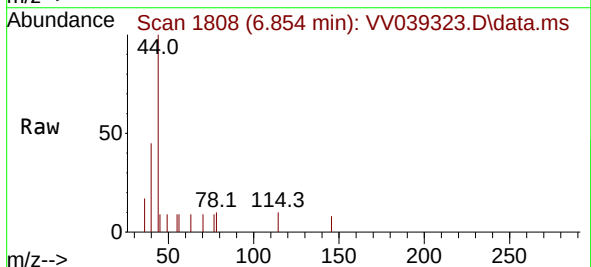
Instrument :
MSVOA_V
ClientSampleId :

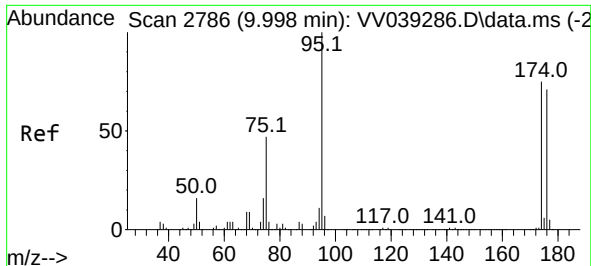
Tgt Ion: 98 Resp: 1571852
Ion Ratio Lower Upper
98 100
100 64.4 52.8 79.2



#58
2-Chloroethyl Vinyl ether
Concen: 8.474 ug/l
RT: 6.854 min Scan# 1808
Delta R.T. 0.042 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion: 63 Resp: 43
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#

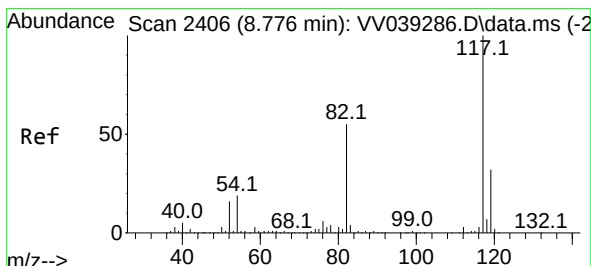
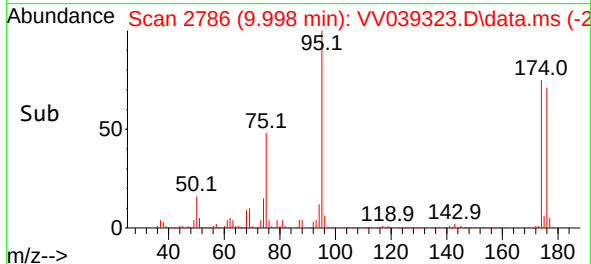
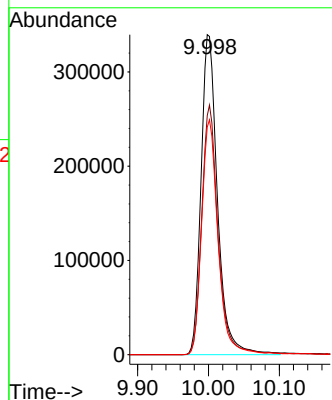
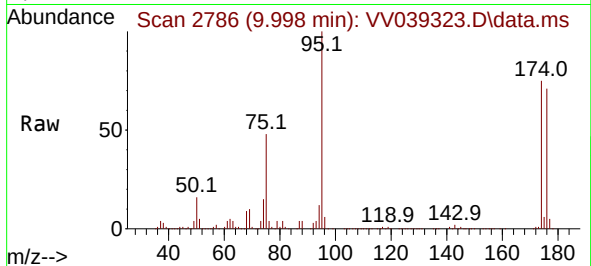




#62
4-Bromofluorobenzene
Concen: 49.128 ug/l
RT: 9.998 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

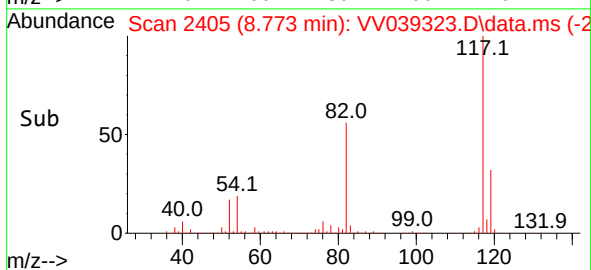
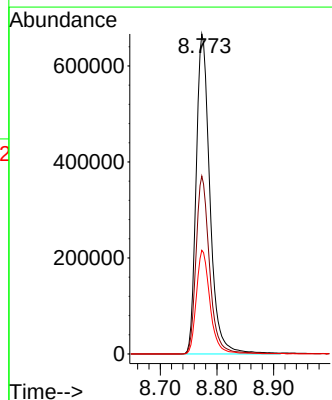
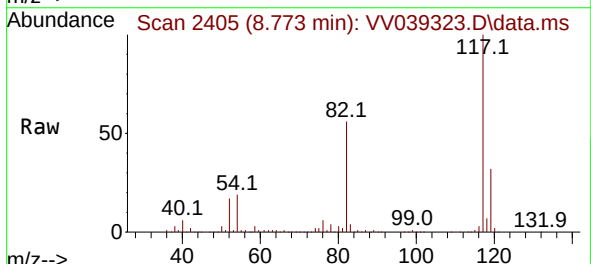
Instrument :
MSVOA_V
ClientSampleId :

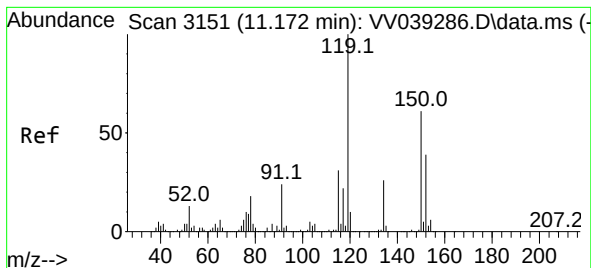
Tgt Ion: 95 Resp: 546785
Ion Ratio Lower Upper
95 100
174 77.3 0.0 153.6
176 73.0 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. -0.003 min
Lab File: VV039323.D
Acq: 04 Nov 2025 18:32

Tgt Ion: 117 Resp: 1122738
Ion Ratio Lower Upper
117 100
82 55.6 43.8 65.8
119 32.4 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: VV039323.D

Acq: 04 Nov 2025 18:32

Instrument :

MSVOA_V

ClientSampleId :

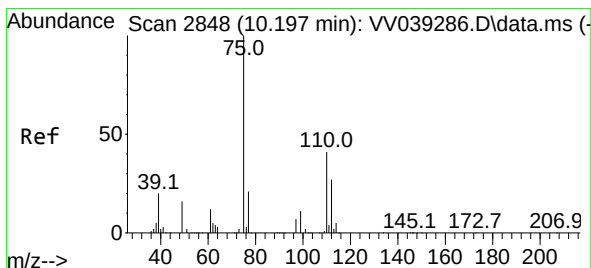
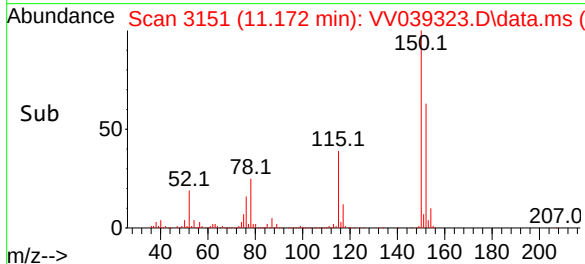
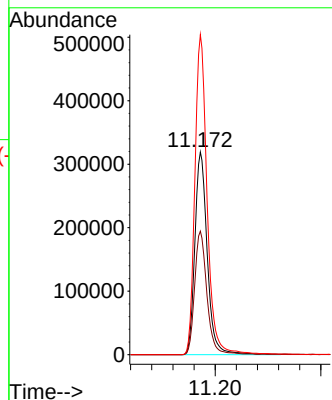
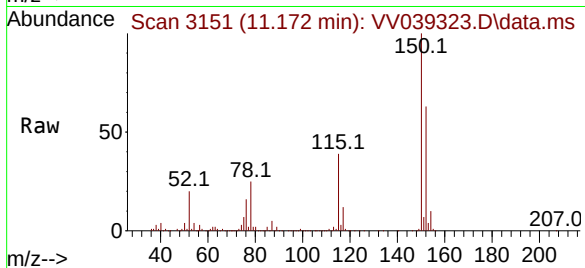
Tgt Ion:152 Resp: 520406

Ion Ratio Lower Upper

152 100

115 60.2 42.3 126.8

150 155.2 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 25.781 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039323.D

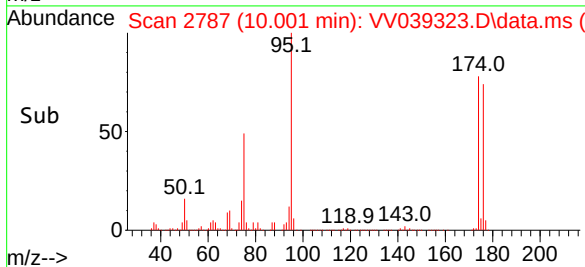
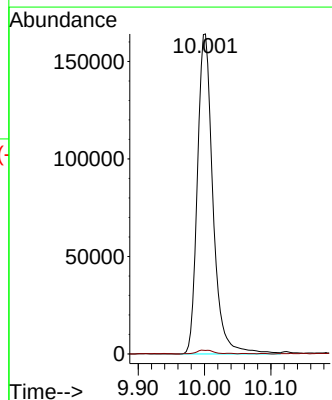
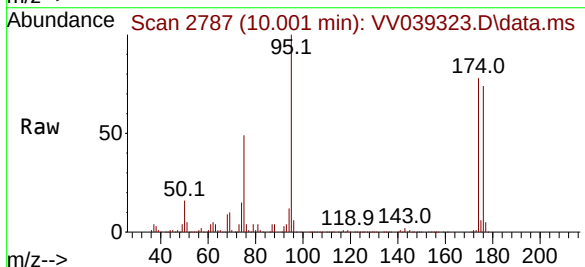
Acq: 04 Nov 2025 18:32

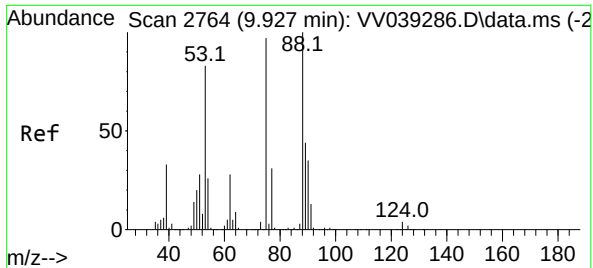
Tgt Ion: 75 Resp: 267779

Ion Ratio Lower Upper

75 100

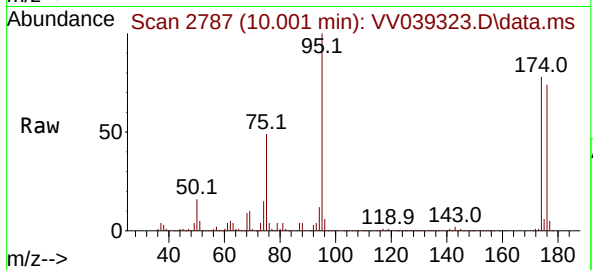
77 1.3 12.2 36.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.109 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. 0.074 min
 Lab File: VV039323.D
 Acq: 04 Nov 2025 18:32

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 75 Resp: 267779
 Ion Ratio Lower Upper
 75 100
 53 0.4 69.9 104.9#
 89 0.0 37.4 56.0#

