

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039319.D
 Acq On : 04 Nov 2025 17:02
 Operator : SY/MD
 Sample : Q3534-06
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:39:38 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

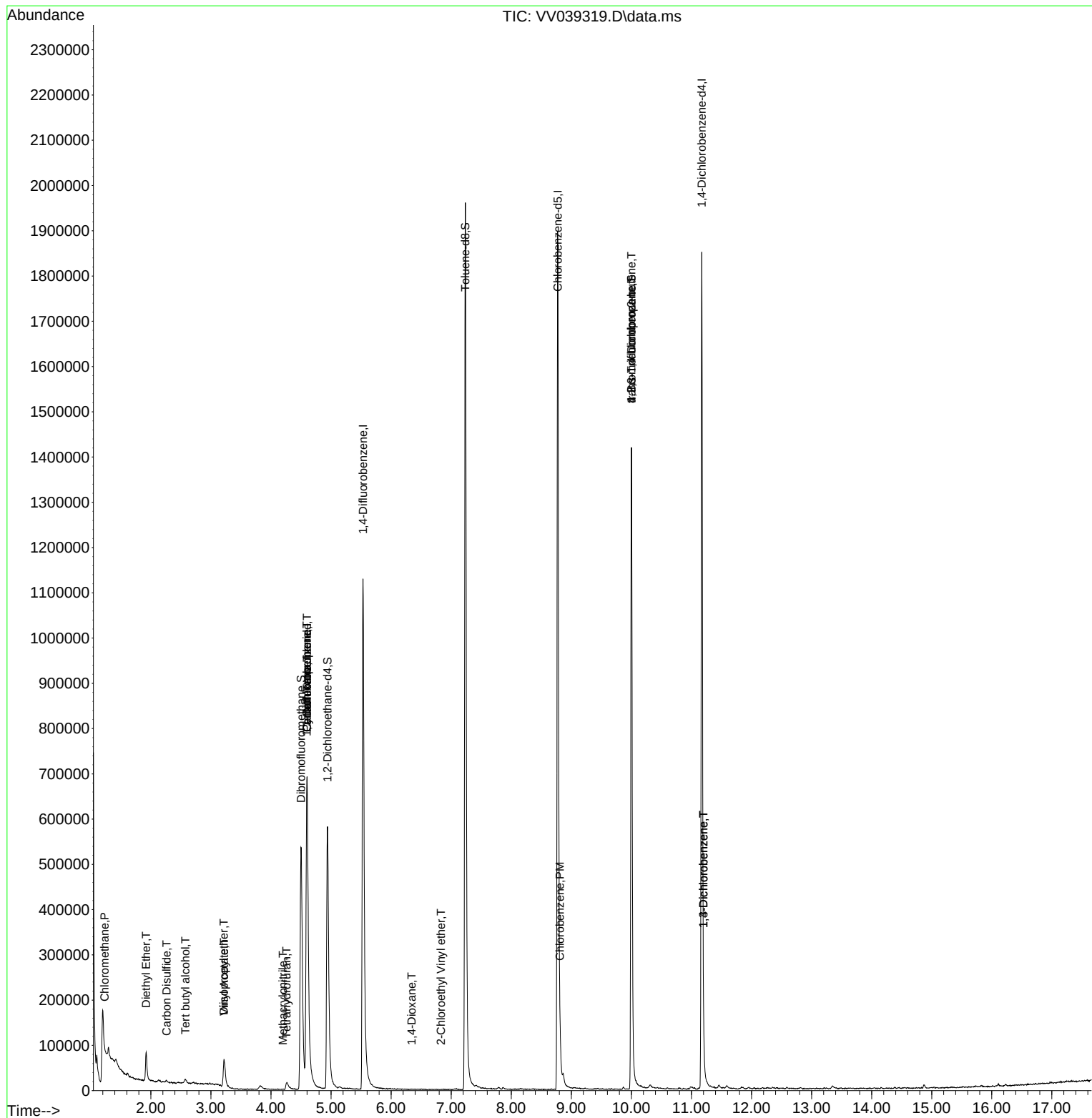
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	616619	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1121740	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1092486	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	497981	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	524263	59.835	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 119.660%#	
35) Dibromofluoromethane	4.500	113	453587	51.319	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 102.640%	
50) Toluene-d8	7.236	98	1410464	46.909	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 93.820%	
62) 4-Bromofluorobenzene	10.001	95	488084	45.579	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 91.160%	
Target Compounds						Qvalue
3) Chloromethane	1.230	50	1837	0.226	ug/l	90
6) Chloroethane	1.655	64	1302	Below Cal	#	51
8) Diethyl Ether	1.921	74	26811	5.246	ug/l	99
11) Tert butyl alcohol	2.574	59	5178	3.049	ug/l	# 85
13) Acrolein	2.015	56	211	Below Cal	#	15
16) Acetone	2.127	43	4893	Below Cal	#	84
17) Carbon Disulfide	2.262	76	5636	0.240	ug/l	# 90
20) Methylene Chloride	2.458	84	275	Below Cal	#	25
22) Diisopropyl ether	3.217	45	65193	2.755	ug/l	# 36
23) Vinyl Acetate	3.220	43	37400	1.800	ug/l	# 69
29) Tetrahydrofuran	4.256	42	12712	3.710	ug/l	94
31) Cyclohexane	4.600	56	12353	1.070	ug/l	# 1
36) 1,1-Dichloropropene	4.597	75	47251	4.256	ug/l	# 48
38) Carbon Tetrachloride	4.600	117	63938	4.727	ug/l	# 19
41) Methacrylonitrile	4.198	41	270	1.738	ug/l	# 35
49) 1,4-Dioxane	6.342	88	349	2.662	ug/l	# 53
58) 2-Chloroethyl Vinyl ether	6.831	63	77	8.479	ug/l	# 45
65) Chlorobenzene	8.809	112	63971	2.473	ug/l	100
76) 1,2,3-Trichloropropane	10.001	75	242238	24.372	ug/l	# 52
81) trans-1,4-Dichloro-2-b...	10.001	75	242238	61.552	ug/l	# 14
87) 1,3-Dichlorobenzene	11.198	146	30118	1.816	ug/l	79
88) 1,4-Dichlorobenzene	11.198	146	30118	1.623	ug/l	# 77

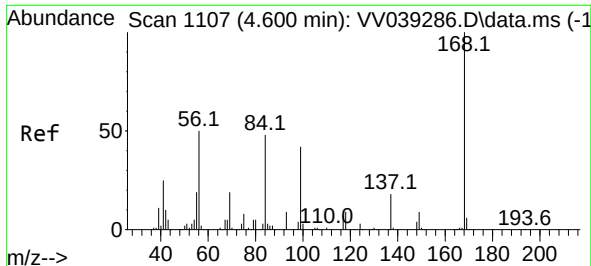
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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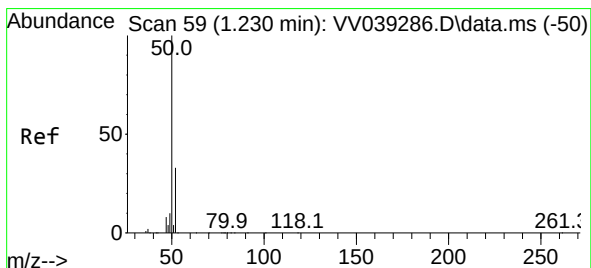
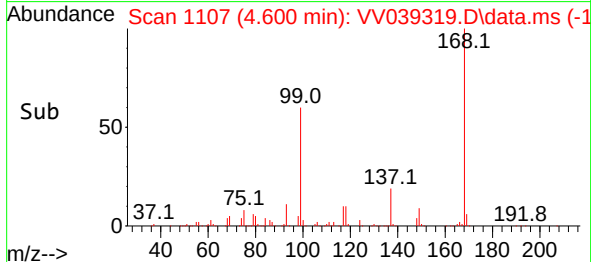
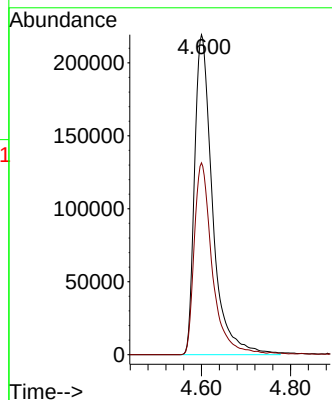
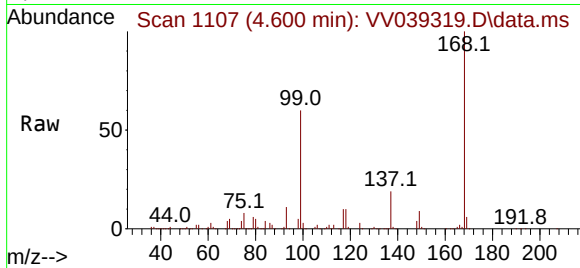




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

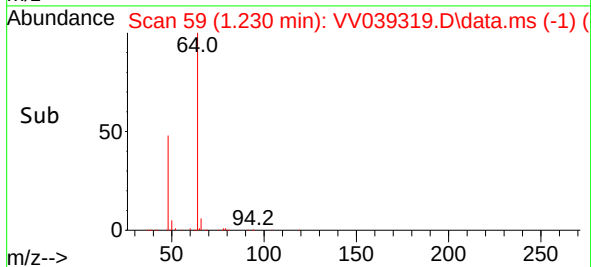
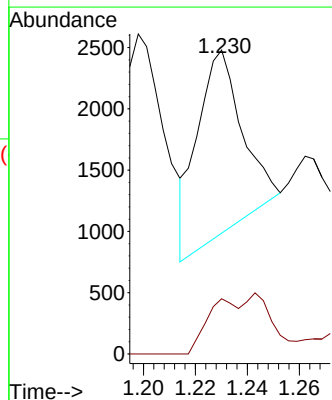
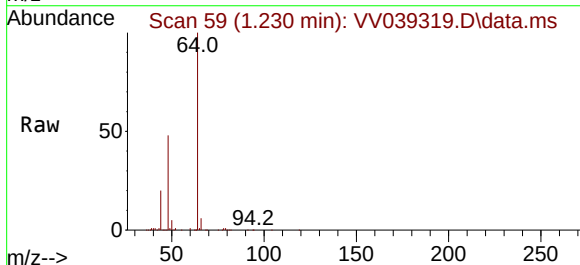
Instrument :
MSVOA_V
ClientSampleId :

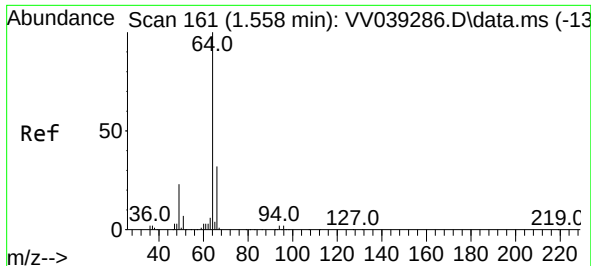
Tgt Ion:168 Resp: 616619
Ion Ratio Lower Upper
168 100
99 59.9 46.6 70.0



#3
Chloromethane
Concen: 0.226 ug/l
RT: 1.230 min Scan# 59
Delta R.T. 0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion: 50 Resp: 1837
Ion Ratio Lower Upper
50 100
52 38.7 26.6 39.8

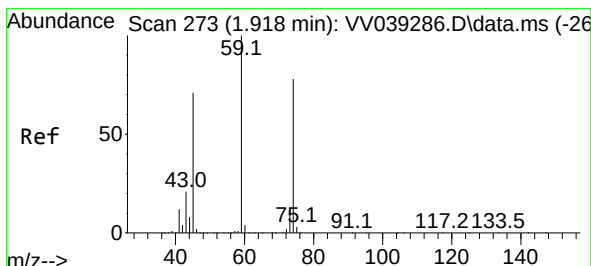
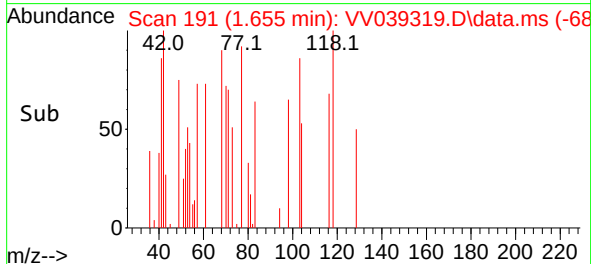
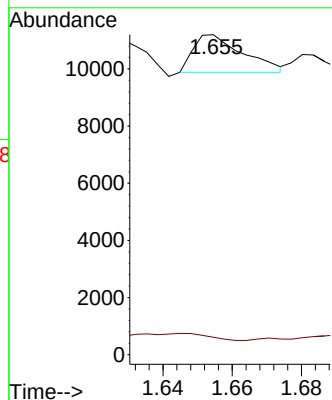
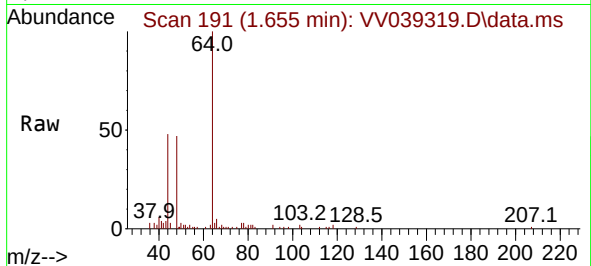




#6
Chloroethane
Concen: Below Cal
RT: 1.655 min Scan# 191
Delta R.T. 0.097 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

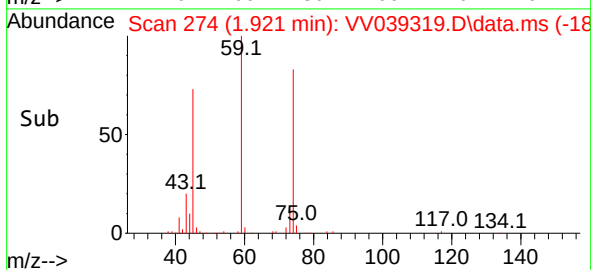
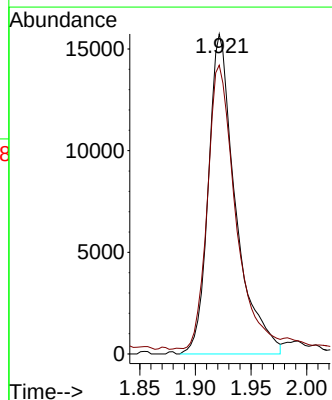
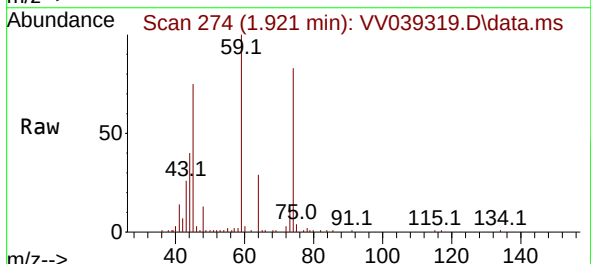
Instrument :
MSVOA_V
ClientSampleId :

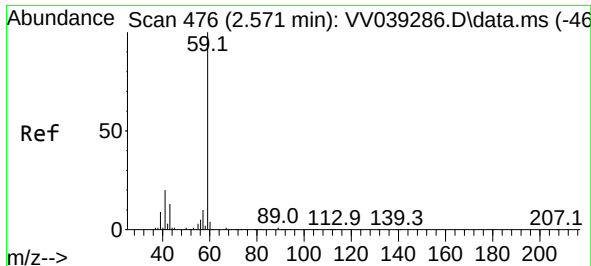
Tgt Ion: 64 Resp: 1302
Ion Ratio Lower Upper
64 100
66 4.8 25.7 38.5#



#8
Diethyl Ether
Concen: 5.246 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion: 74 Resp: 26811
Ion Ratio Lower Upper
74 100
45 91.2 45.9 137.7

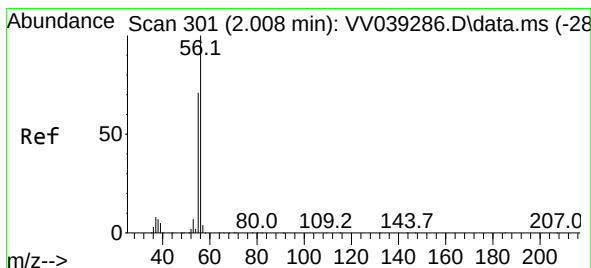
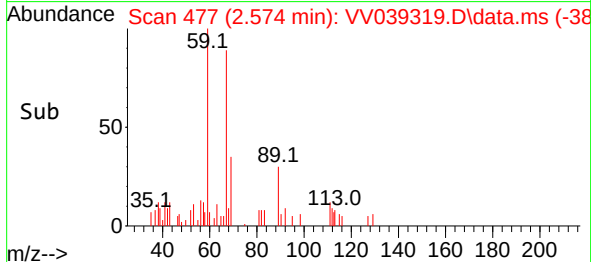
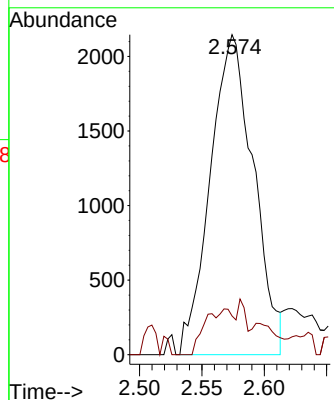
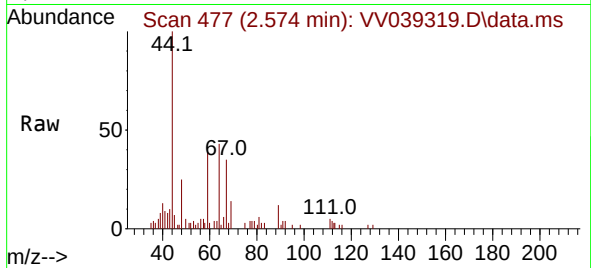




#11
Tert butyl alcohol
Concen: 3.049 ug/l
RT: 2.574 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

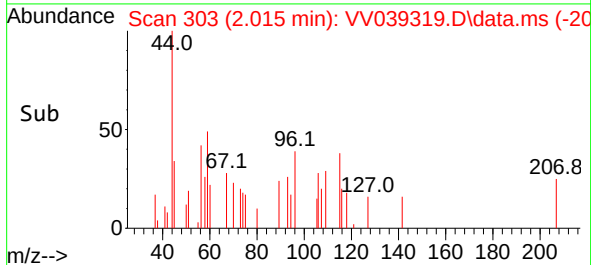
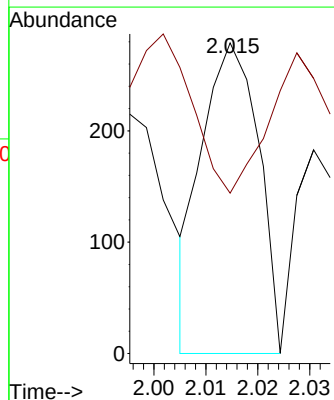
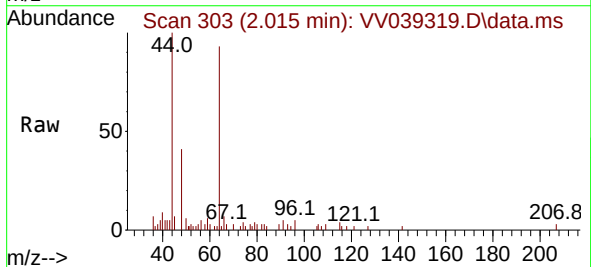
Instrument :
MSVOA_V
ClientSampleId :

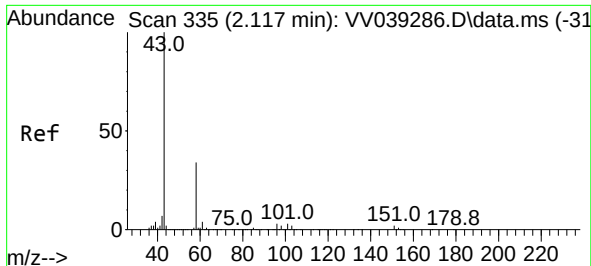
Tgt Ion: 59 Resp: 5178
Ion Ratio Lower Upper
59 100
57 4.6 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.015 min Scan# 303
Delta R.T. 0.007 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion: 56 Resp: 211
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

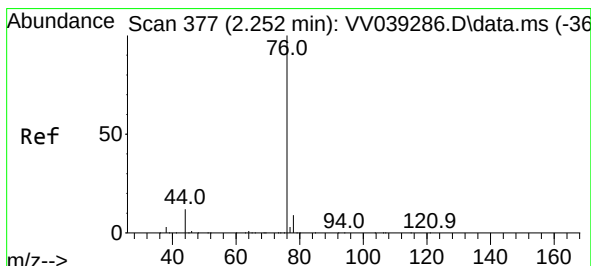
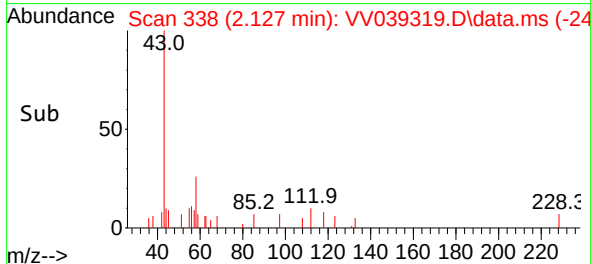
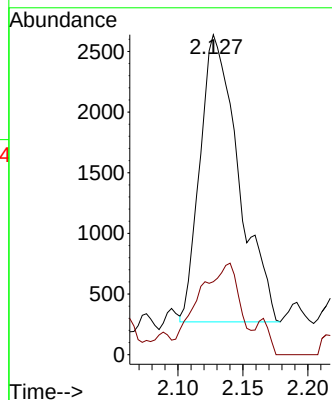
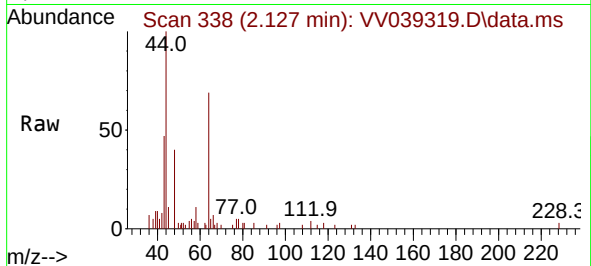




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

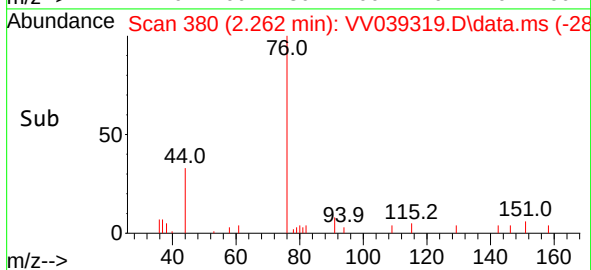
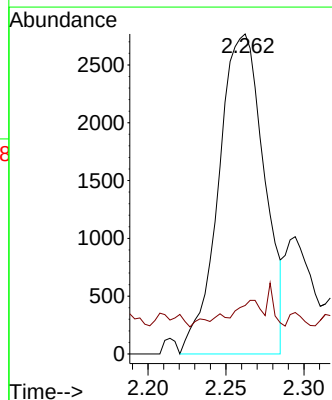
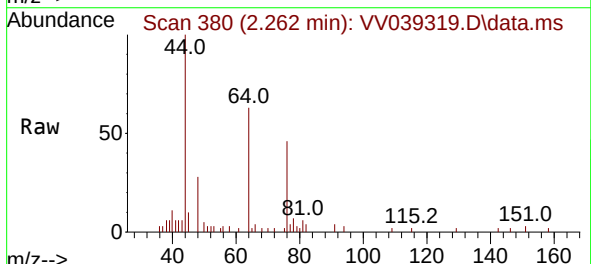
Instrument :
MSVOA_V
ClientSampleId :

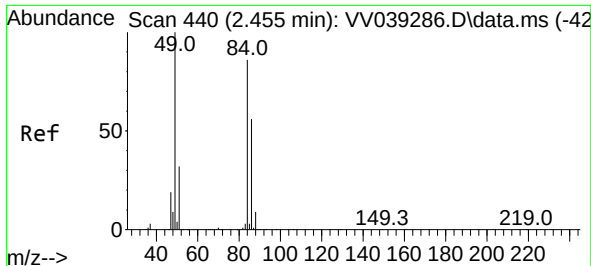
Tgt Ion: 43 Resp: 4893
Ion Ratio Lower Upper
43 100
58 25.4 27.5 41.3#



#17
Carbon Disulfide
Concen: 0.240 ug/l
RT: 2.262 min Scan# 380
Delta R.T. 0.010 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

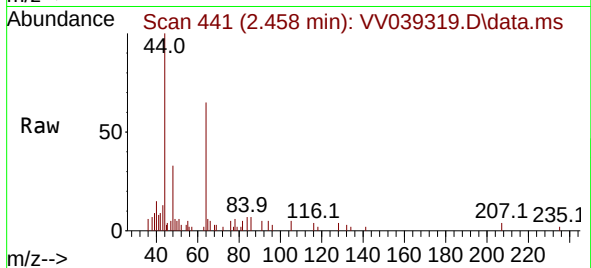
Tgt Ion: 76 Resp: 5636
Ion Ratio Lower Upper
76 100
78 5.4 7.4 11.0#



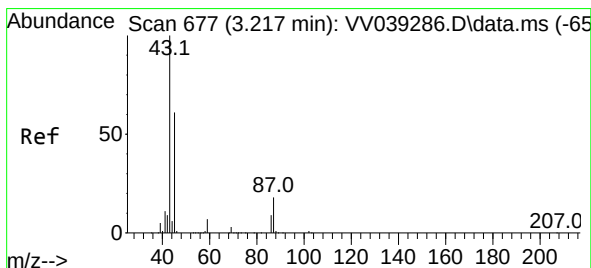
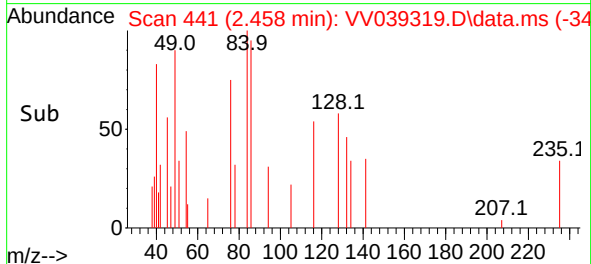
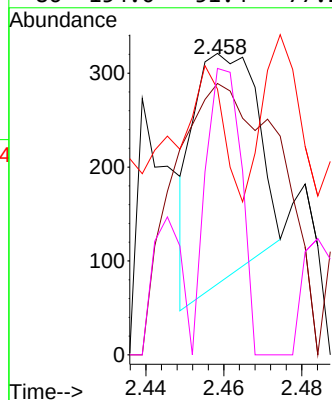


#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Instrument :
MSVOA_V
ClientSampleId :

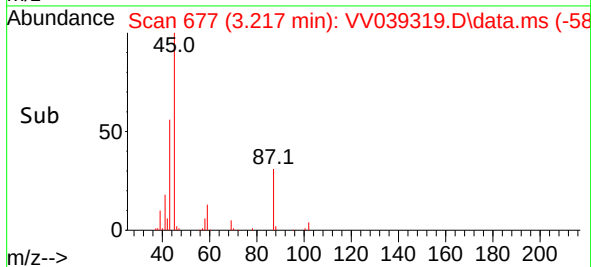
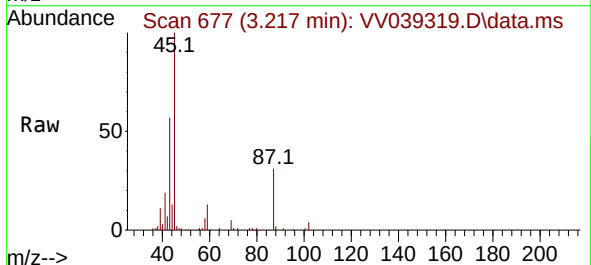
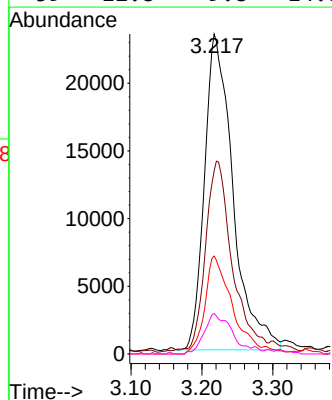


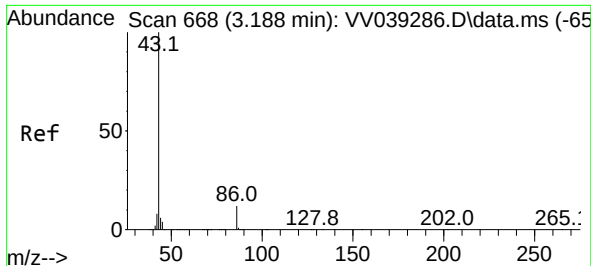
Tgt Ion:	84	Resp:	275
Ion	Ratio	Lower	Upper
84	100		
49	35.4	92.6	139.0#
51	32.3	29.6	44.4
86	154.0	51.4	77.2#



#22
Diisopropyl ether
Concen: 2.755 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion:	45	Resp:	65193
Ion	Ratio	Lower	Upper
45	100		
43	56.5	130.8	196.2#
87	31.0	23.8	35.8
59	12.8	9.8	14.8

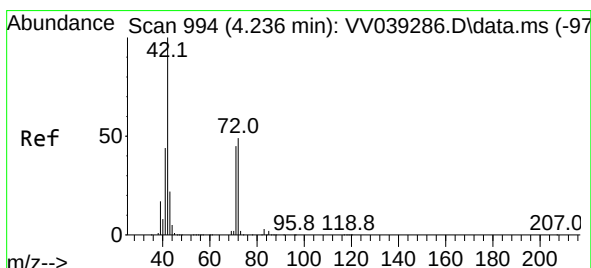
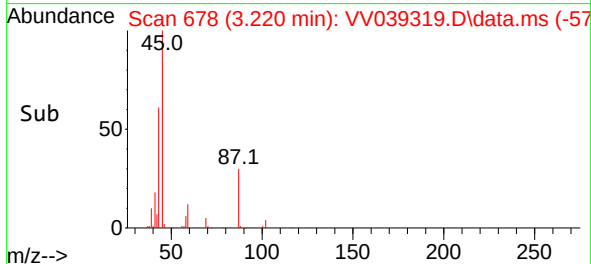
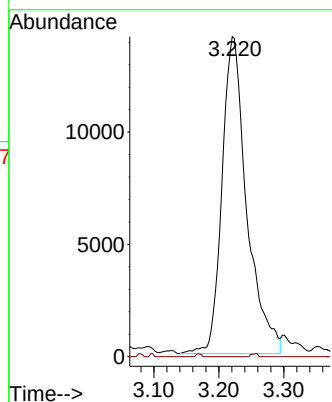
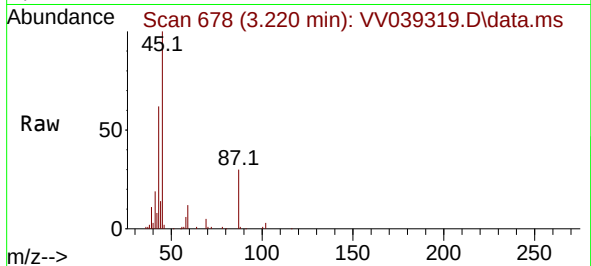




#23
 Vinyl Acetate
 Concen: 1.800 ug/l
 RT: 3.220 min Scan# 61
 Delta R.T. 0.032 min
 Lab File: VV039319.D
 Acq: 04 Nov 2025 17:02

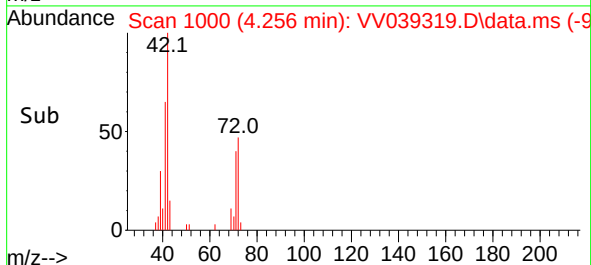
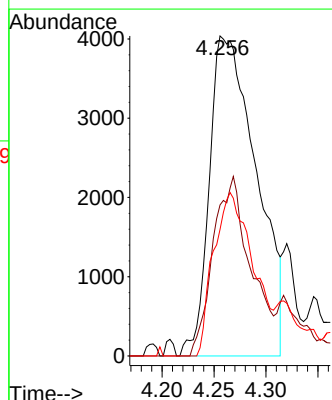
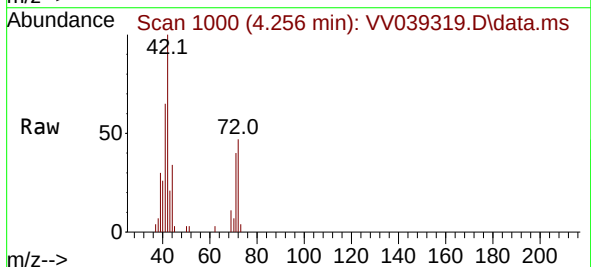
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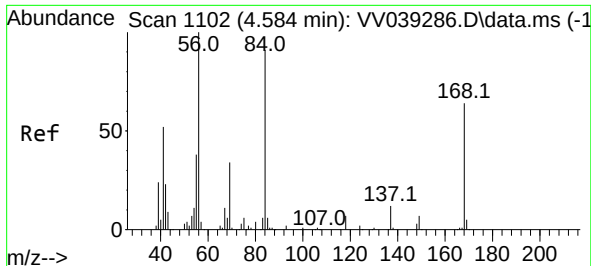
Tgt Ion: 43 Resp: 37400
 Ion Ratio Lower Upper
 43 100
 86 0.0 9.4 14.2#



#29
 Tetrahydrofuran
 Concen: 3.710 ug/l
 RT: 4.256 min Scan# 1000
 Delta R.T. 0.019 min
 Lab File: VV039319.D
 Acq: 04 Nov 2025 17:02

Tgt Ion: 42 Resp: 12712
 Ion Ratio Lower Upper
 42 100
 72 44.6 39.8 59.8
 71 43.2 36.5 54.7

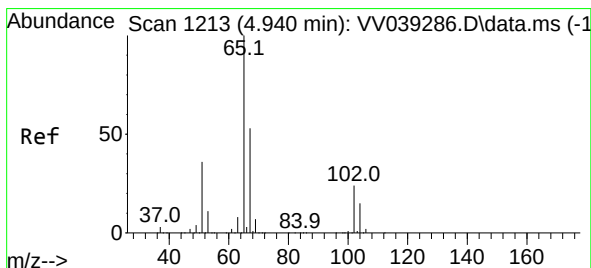
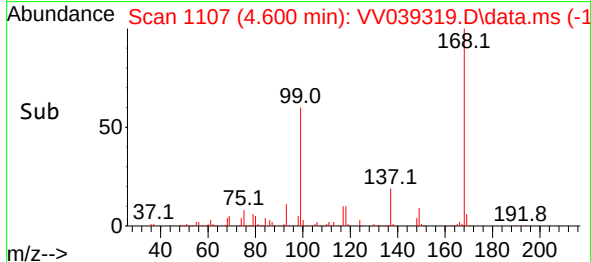
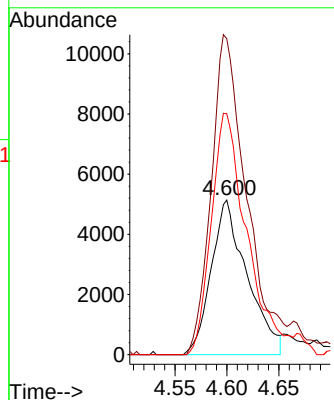
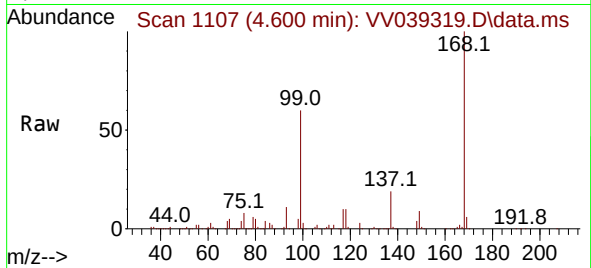




#31
Cyclohexane
Concen: 1.070 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

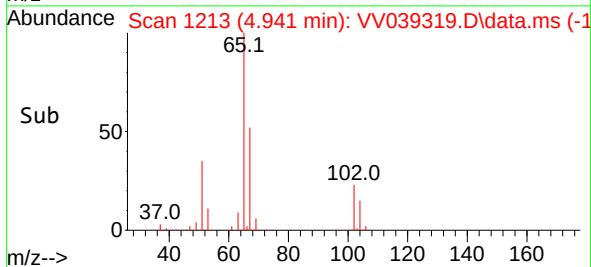
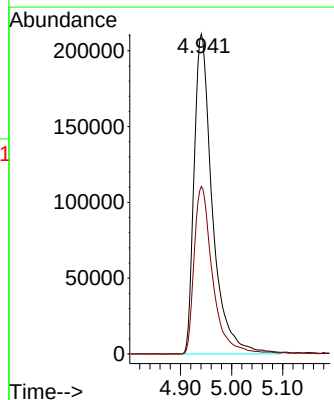
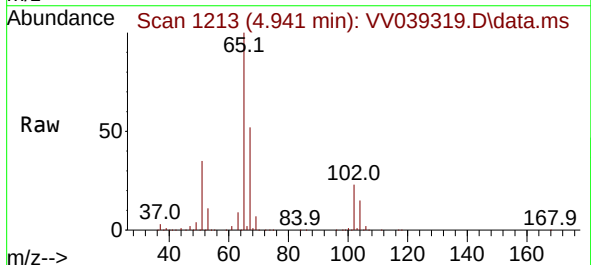
Instrument :
MSVOA_V
ClientSampleId :

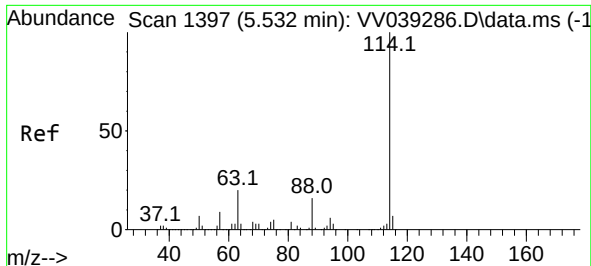
Tgt Ion: 56 Resp: 12353
Ion Ratio Lower Upper
56 100
69 204.4 27.4 41.0#
84 155.9 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 59.835 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion: 65 Resp: 524263
Ion Ratio Lower Upper
65 100
67 52.6 0.0 108.4

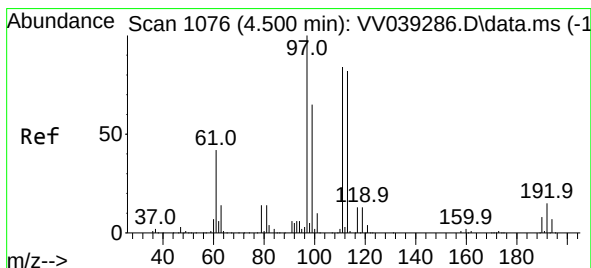
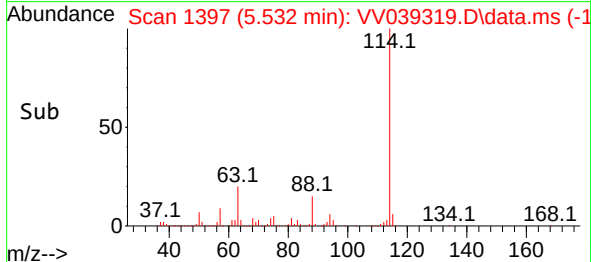
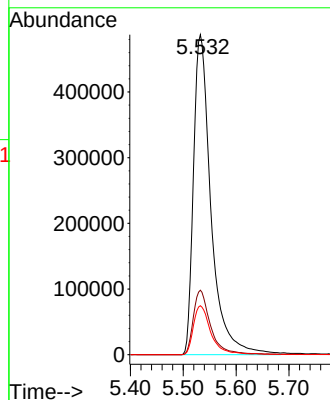
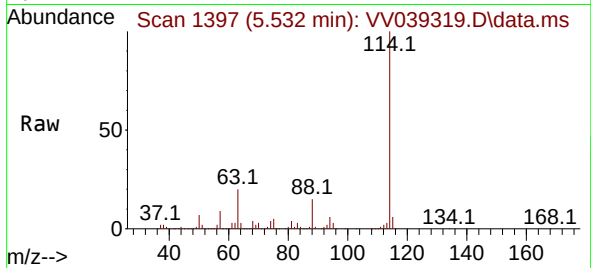




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

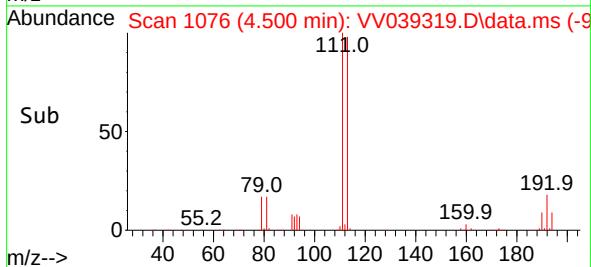
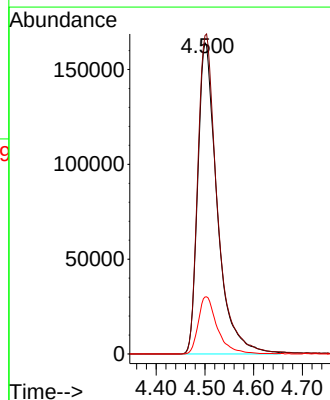
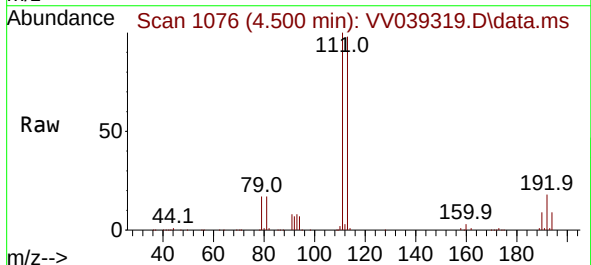
Instrument :
MSVOA_V
ClientSampleId :

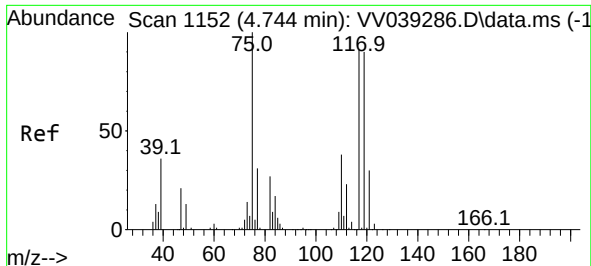
Tgt Ion:114 Resp: 1121740
Ion Ratio Lower Upper
114 100
63 20.1 0.0 39.6
88 15.3 0.0 31.6



#35
Dibromofluoromethane
Concen: 51.319 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion:113 Resp: 453587
Ion Ratio Lower Upper
113 100
111 103.2 82.0 123.0
192 18.1 14.3 21.5

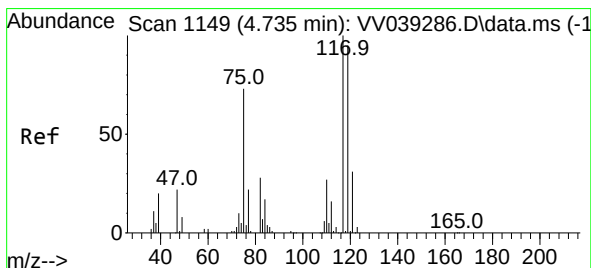
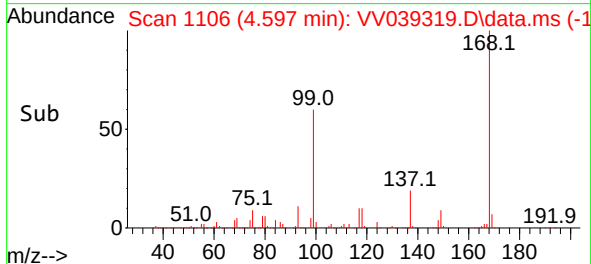
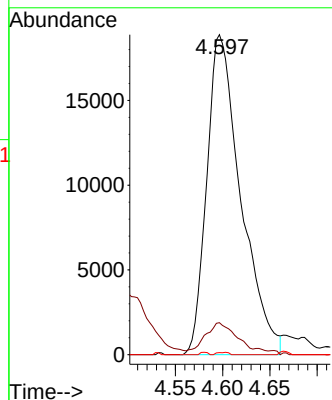
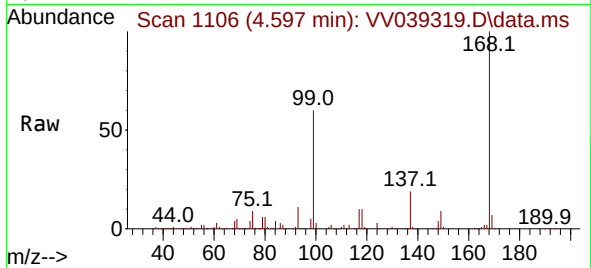




#36
 1,1-Dichloropropene
 Concen: 4.256 ug/l
 RT: 4.597 min Scan# 1106
 Delta R.T. -0.148 min
 Lab File: VV039319.D
 Acq: 04 Nov 2025 17:02

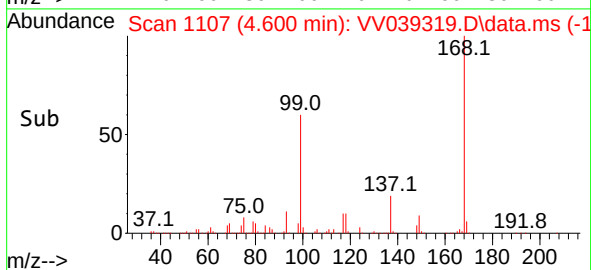
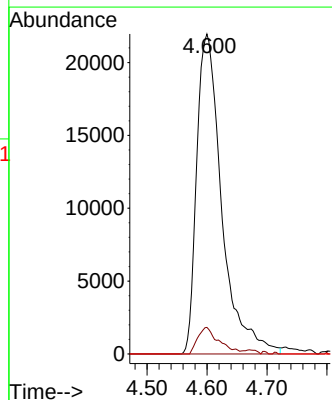
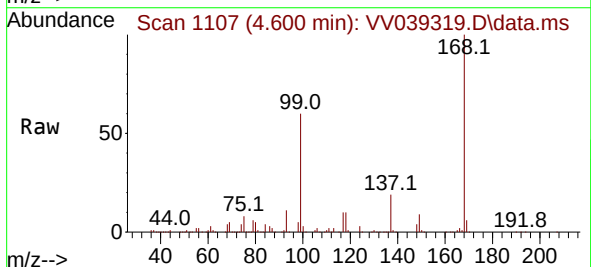
Instrument :
 MSVOA_V
 ClientSampleId :

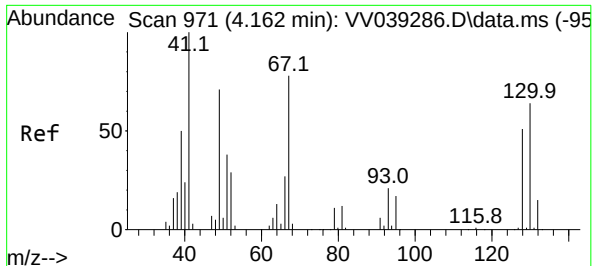
Tgt Ion: 75 Resp: 47251
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.9 56.7#
 77 0.2 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 4.727 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.135 min
 Lab File: VV039319.D
 Acq: 04 Nov 2025 17:02

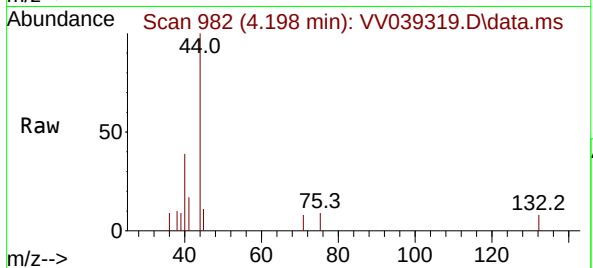
Tgt Ion: 117 Resp: 63938
 Ion Ratio Lower Upper
 117 100
 119 8.3 75.9 113.9#
 121 0.0 24.6 37.0#



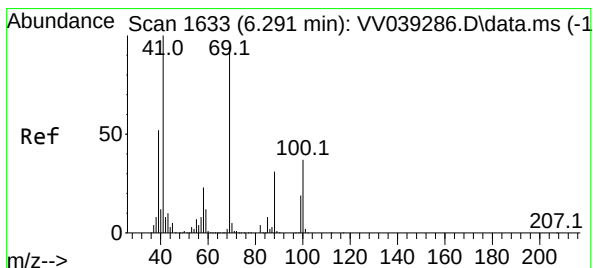
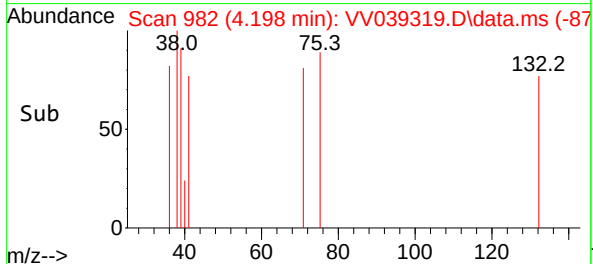
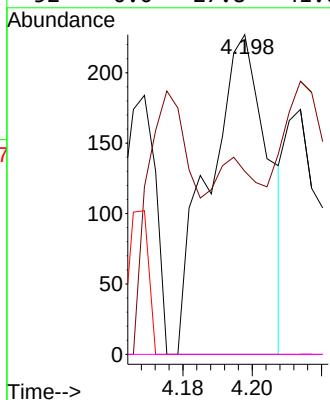


#41
Methacrylonitrile
Concen: 1.738 ug/l
RT: 4.198 min Scan# 91
Delta R.T. 0.035 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Instrument :
MSVOA_V
ClientSampleId :

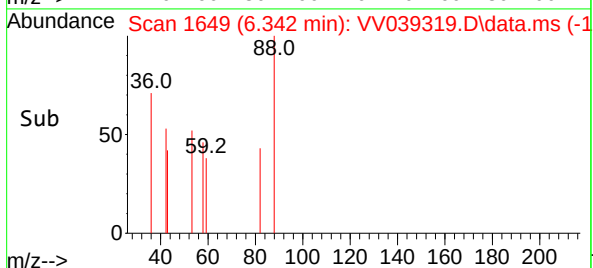
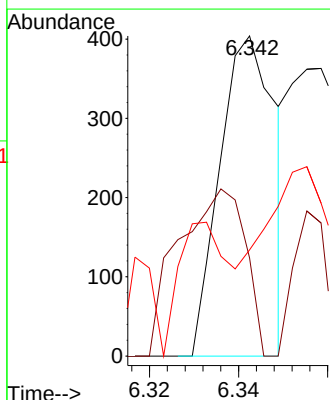
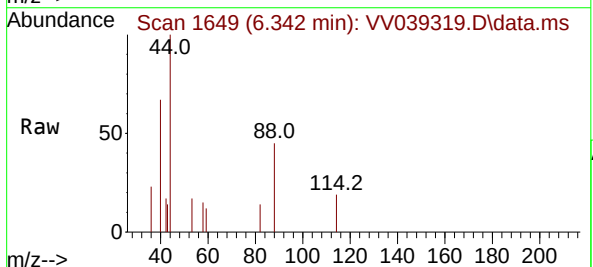


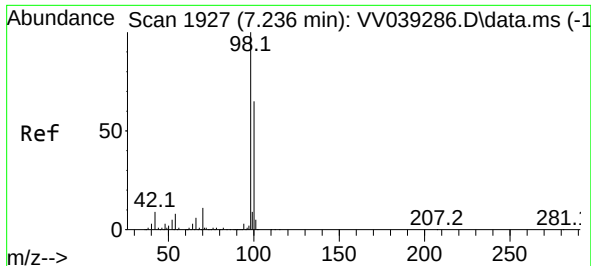
Tgt Ion:	41	Resp:	270
Ion	Ratio	Lower	Upper
41	100		
39	60.4	40.9	61.3
67	0.0	73.1	109.7#
52	0.0	27.8	41.6#



#49
1,4-Dioxane
Concen: 2.662 ug/l
RT: 6.342 min Scan# 1649
Delta R.T. 0.052 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion:	88	Resp:	349
Ion	Ratio	Lower	Upper
88	100		
43	63.0	24.1	36.1#
58	37.8	57.6	86.4#

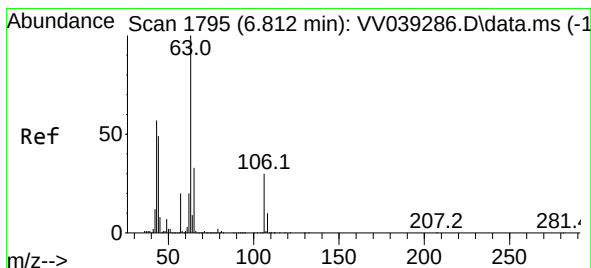
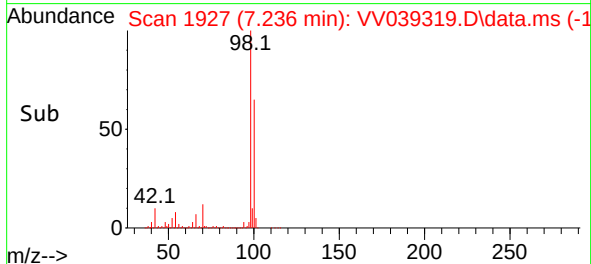
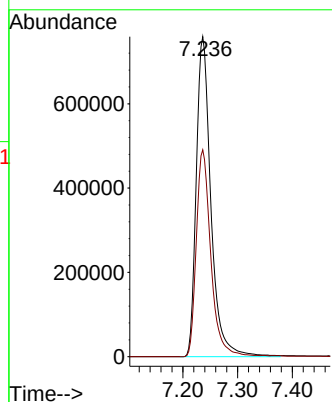
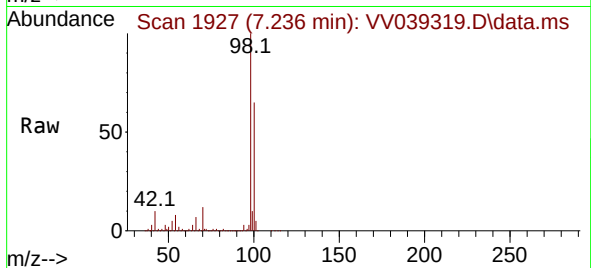




#50
Toluene-d8
Concen: 46.909 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

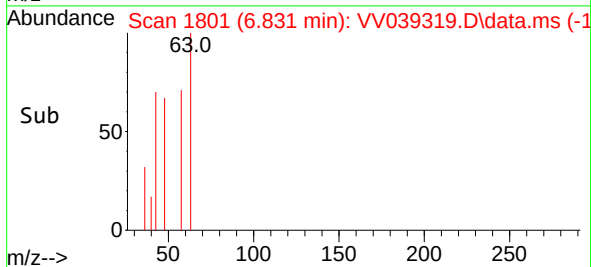
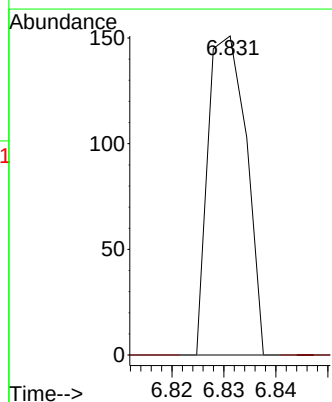
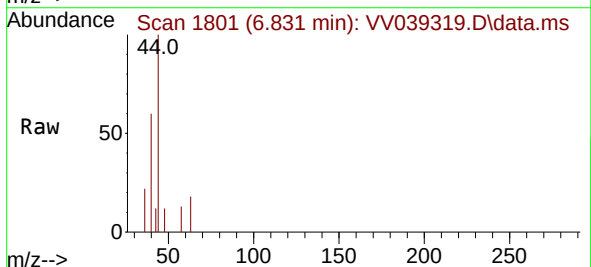
Instrument :
MSVOA_V
ClientSampleId :

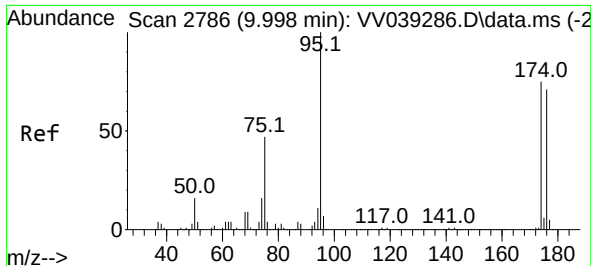
Tgt Ion: 98 Resp: 1410464
Ion Ratio Lower Upper
98 100
100 64.0 52.8 79.2



#58
2-Chloroethyl Vinyl ether
Concen: 8.479 ug/l
RT: 6.831 min Scan# 1801
Delta R.T. 0.019 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion: 63 Resp: 77
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#

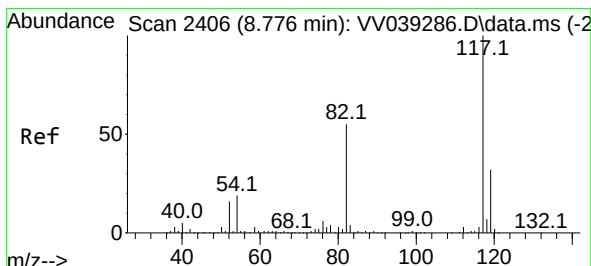
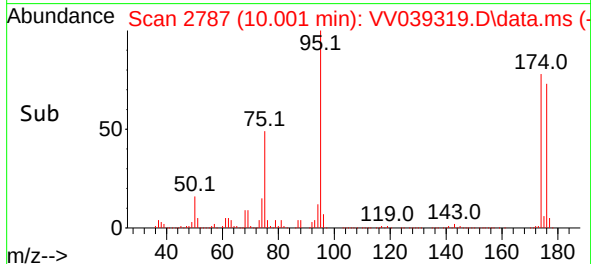
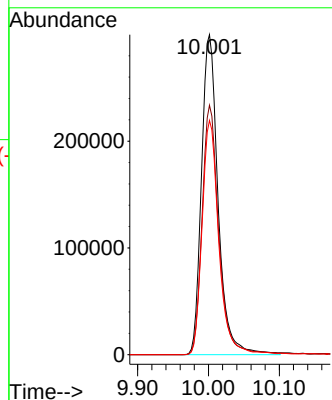
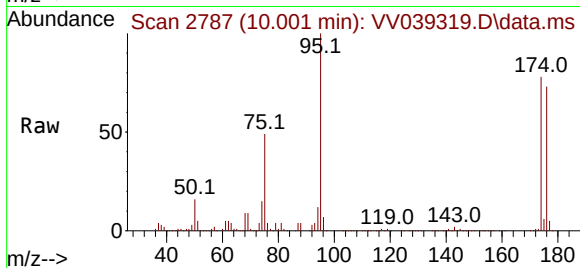




#62
4-Bromofluorobenzene
Concen: 45.579 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

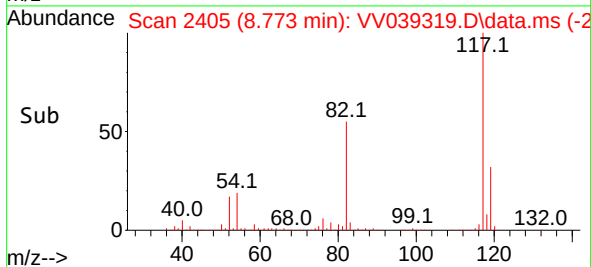
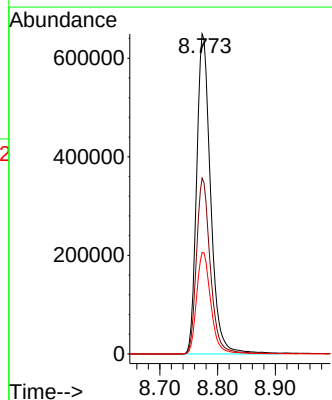
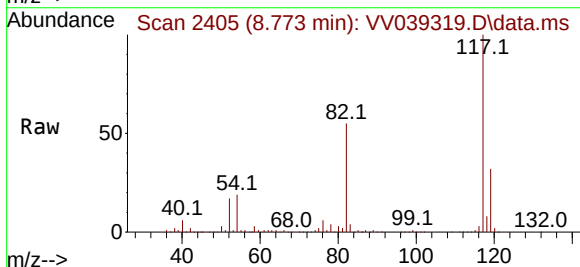
Instrument :
MSVOA_V
ClientSampleId :

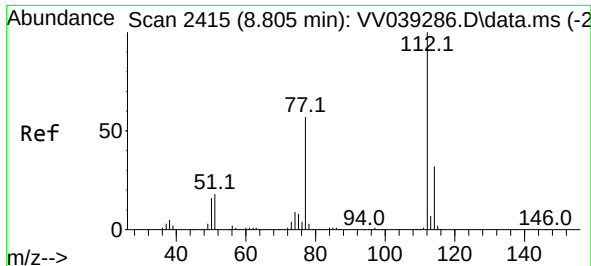
Tgt Ion: 95 Resp: 488084
Ion Ratio Lower Upper
95 100
174 79.3 0.0 153.6
176 73.7 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. -0.003 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion:117 Resp: 1092486
Ion Ratio Lower Upper
117 100
82 55.0 43.8 65.8
119 31.7 25.8 38.6

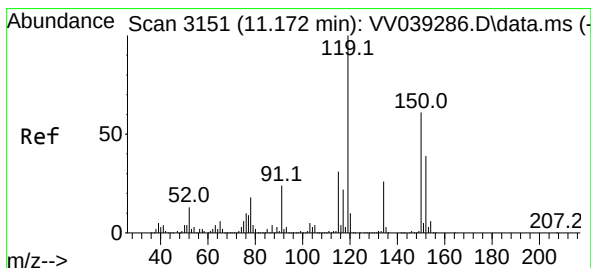
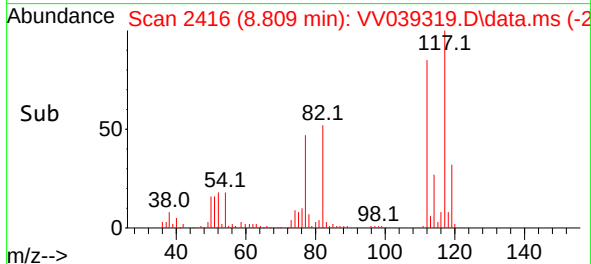
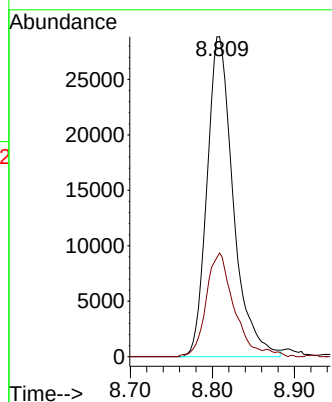
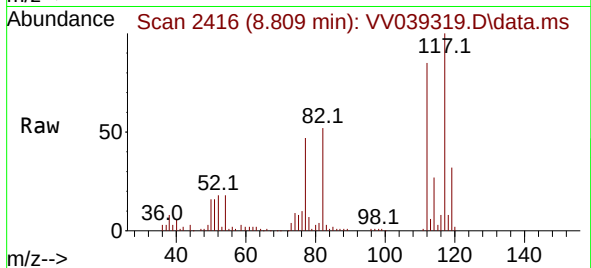




#65
Chlorobenzene
Concen: 2.473 ug/l
RT: 8.809 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

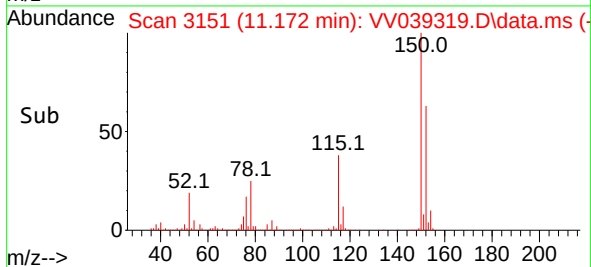
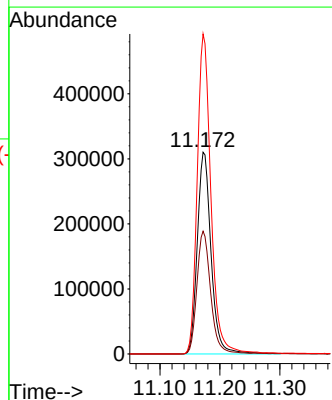
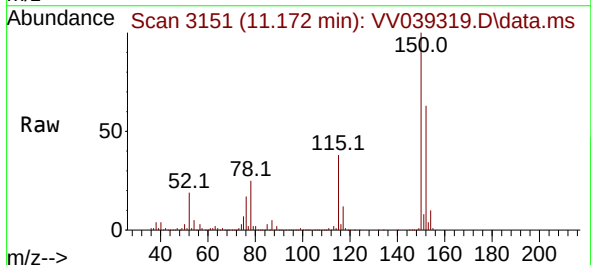
Instrument :
MSVOA_V
ClientSampleId :

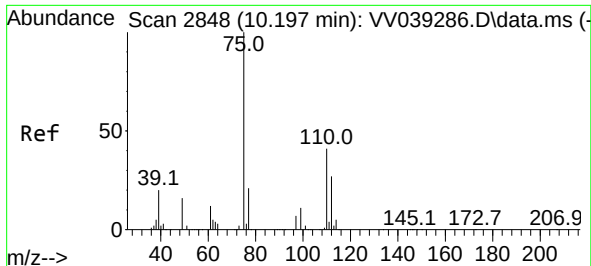
Tgt Ion:112 Resp: 63971
Ion Ratio Lower Upper
112 100
114 32.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion:152 Resp: 497981
Ion Ratio Lower Upper
152 100
115 60.9 42.3 126.8
150 157.1 0.0 348.0

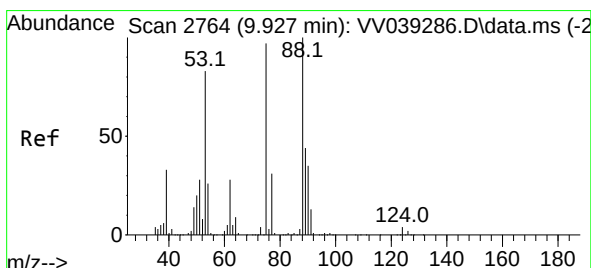
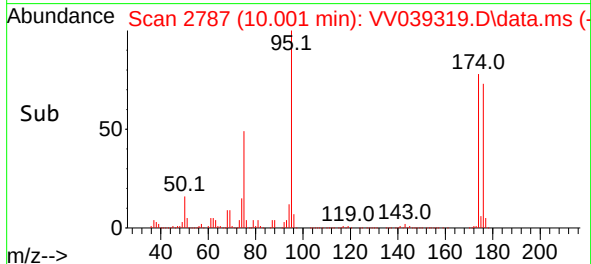
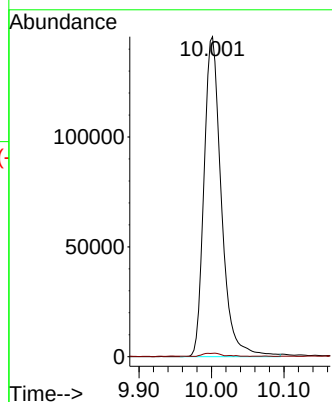
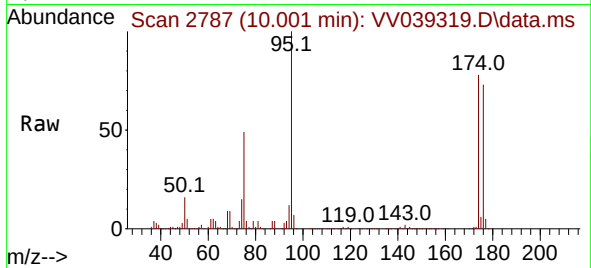




#76
1,2,3-Trichloropropane
Concen: 24.372 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.196 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

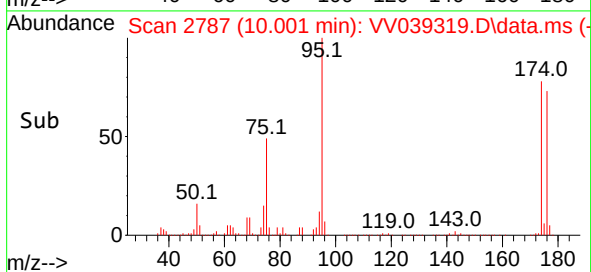
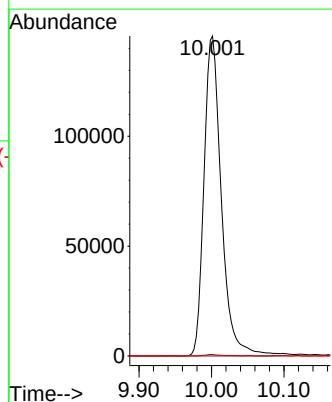
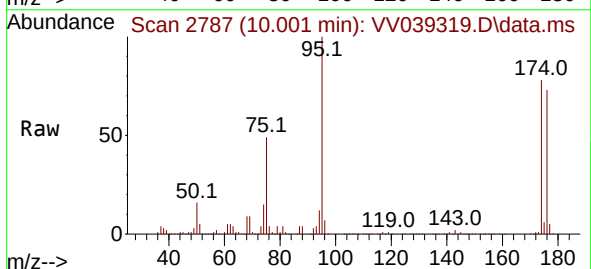
Instrument :
MSVOA_V
ClientSampleId :

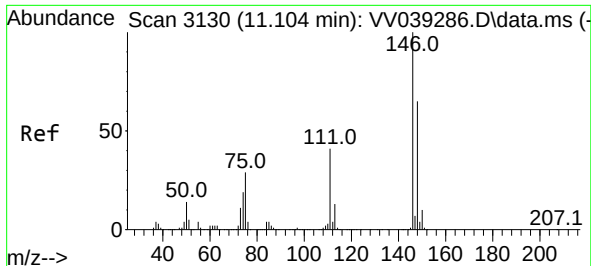
Tgt Ion: 75 Resp: 242238
Ion Ratio Lower Upper
75 100
77 0.5 12.2 36.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.552 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion: 75 Resp: 242238
Ion Ratio Lower Upper
75 100
53 0.5 69.9 104.9#
89 0.0 37.4 56.0#

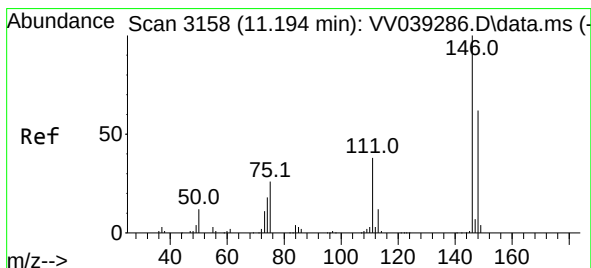
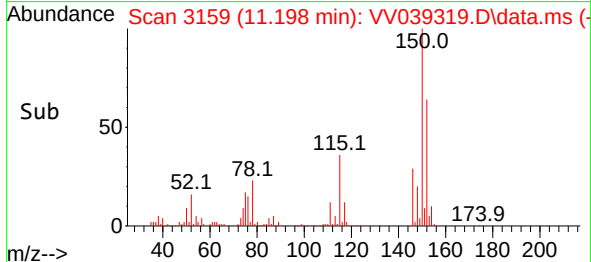
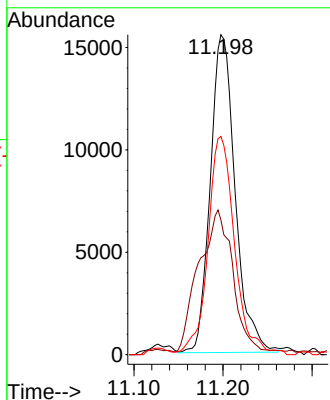
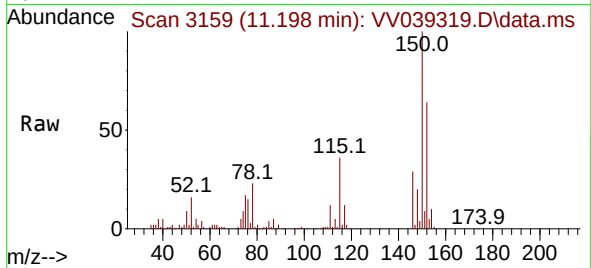




#87
1,3-Dichlorobenzene
Concen: 1.816 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.093 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 30118
Ion Ratio Lower Upper
146 100
111 61.7 20.6 61.8
148 73.9 31.9 95.9



#88
1,4-Dichlorobenzene
Concen: 1.623 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039319.D
Acq: 04 Nov 2025 17:02

Tgt Ion:146 Resp: 30118
Ion Ratio Lower Upper
146 100
111 61.7 19.7 59.0#
148 73.9 31.5 94.5

