

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110525\
 Data File : VV039330.D
 Acq On : 05 Nov 2025 12:29
 Operator : SY/MD
 Sample : VV1105WBL01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 06 00:11:52 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)

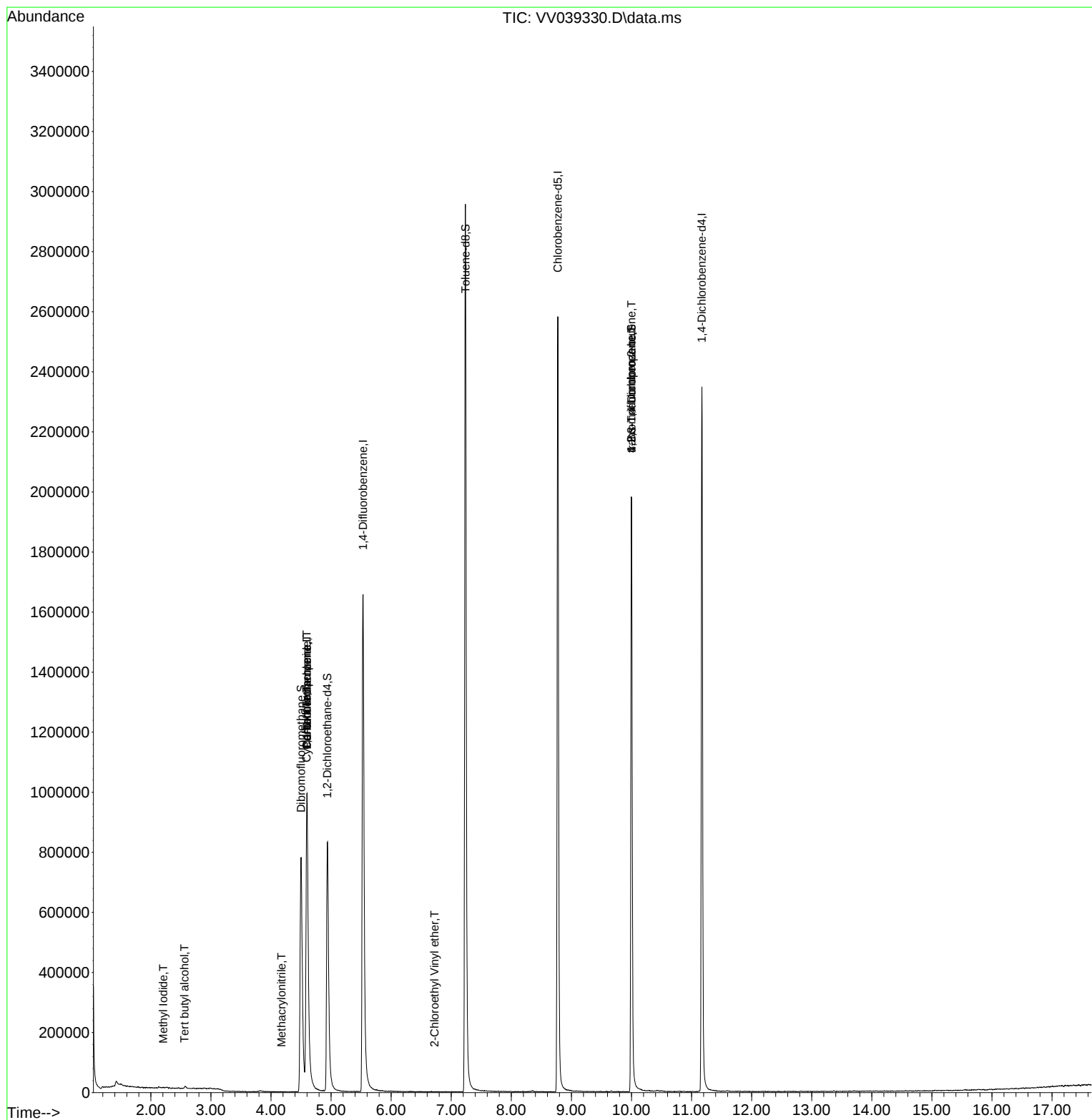
Internal Standards						
1) Pentafluorobenzene	4.600	168	856812	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1628447	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1466262	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	623984	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	739326	60.726	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 121.460%#	
35) Dibromofluoromethane	4.500	113	657324	51.229	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 102.460%	
50) Toluene-d8	7.236	98	2095273	48.001	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 96.000%	
62) 4-Bromofluorobenzene	9.998	95	674284	43.374	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 86.740%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.635	64	440	Below Cal	#	46
10) Methyl Iodide	2.204	142	2737	0.270	ug/l #	89
11) Tert butyl alcohol	2.561	59	524	0.222	ug/l #	73
13) Acrolein	2.008	56	82	Below Cal	#	1
16) Acetone	2.130	43	1068	Below Cal	#	85
20) Methylene Chloride	2.465	84	951	Below Cal	#	47
31) Cyclohexane	4.593	56	17997	1.122	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	68899	4.275	ug/l #	50
38) Carbon Tetrachloride	4.596	117	91965	4.684	ug/l #	17
41) Methacrylonitrile	4.175	41	21	1.694	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.722	63	73	8.475	ug/l #	45
76) 1,2,3-Trichloropropane	9.998	75	327712	26.314	ug/l #	54
81) trans-1,4-Dichloro-2-b...	9.998	75	327712	66.455	ug/l #	14

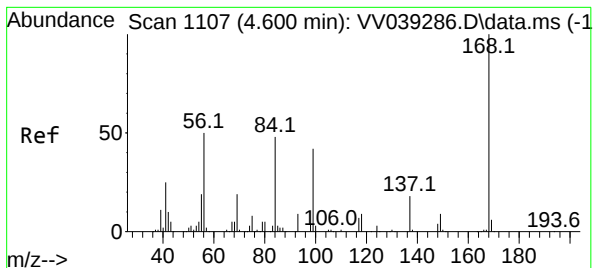
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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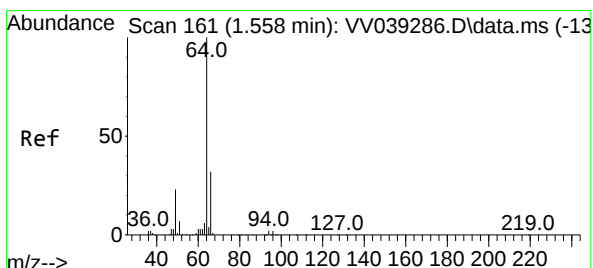
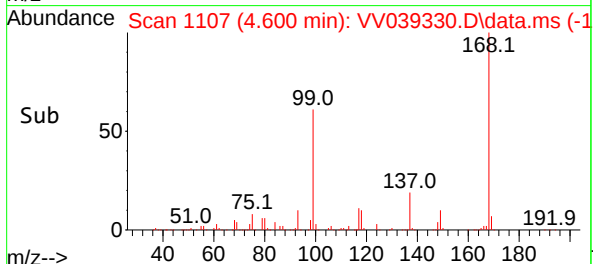
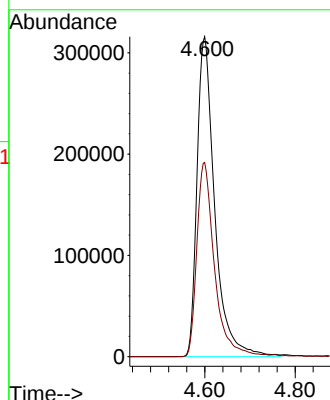
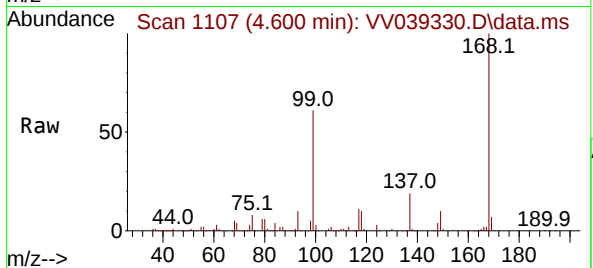




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

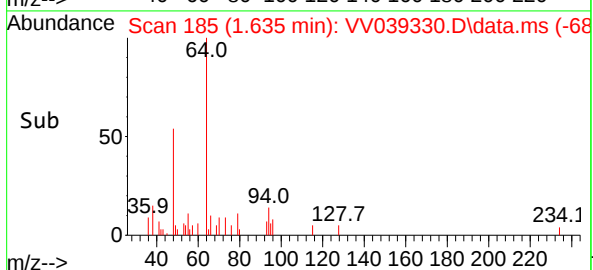
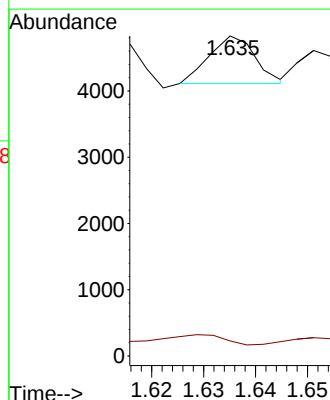
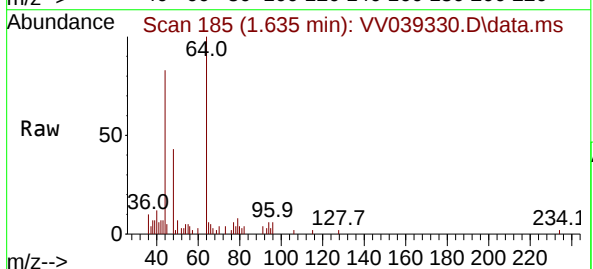
Instrument :
MSVOA_V
ClientSampleId :

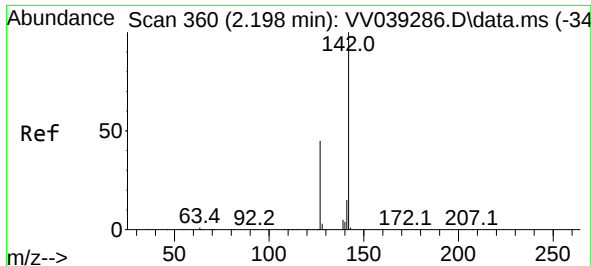
Tgt Ion:168 Resp: 856812
Ion Ratio Lower Upper
168 100
99 60.6 46.6 70.0



#6
Chloroethane
Concen: Below Cal
RT: 1.635 min Scan# 185
Delta R.T. 0.077 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

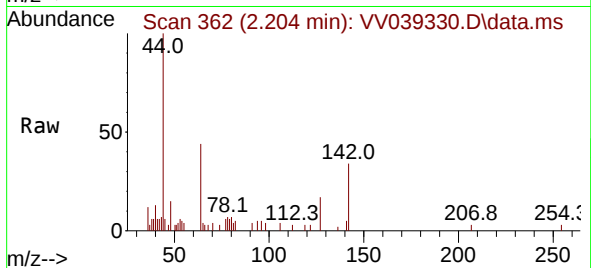
Tgt Ion: 64 Resp: 440
Ion Ratio Lower Upper
64 100
66 2.0 25.7 38.5#



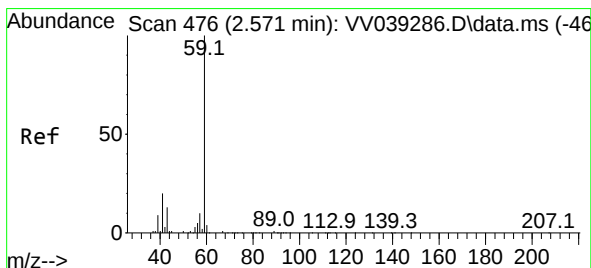
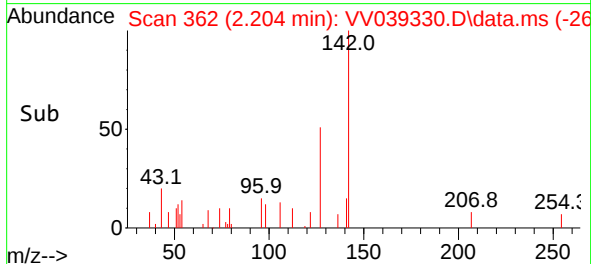
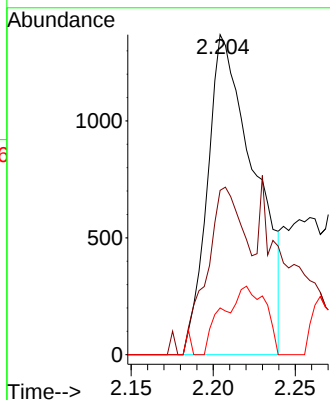


#10
Methyl Iodide
Concen: 0.270 ug/l
RT: 2.204 min Scan# 362
Delta R.T. 0.006 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Instrument :
MSVOA_V
ClientSampleId :

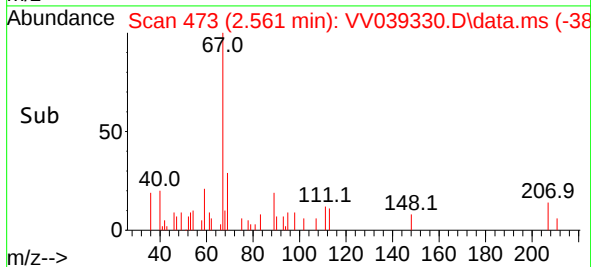
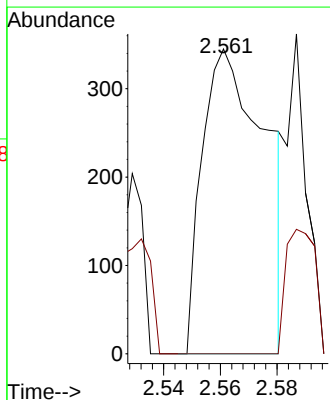
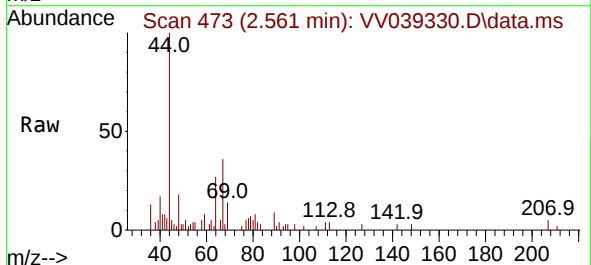


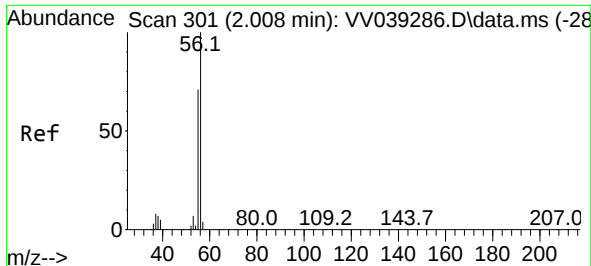
Tgt Ion:142 Resp: 2737
Ion Ratio Lower Upper
142 100
127 42.4 35.5 53.3
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.222 ug/l
RT: 2.561 min Scan# 473
Delta R.T. -0.010 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Tgt Ion: 59 Resp: 524
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

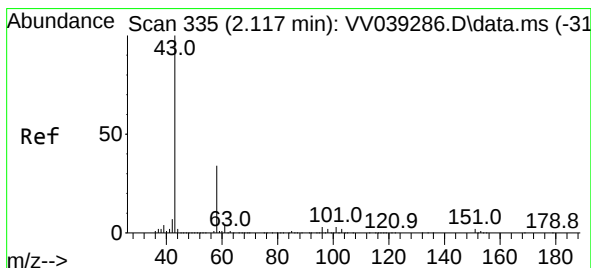
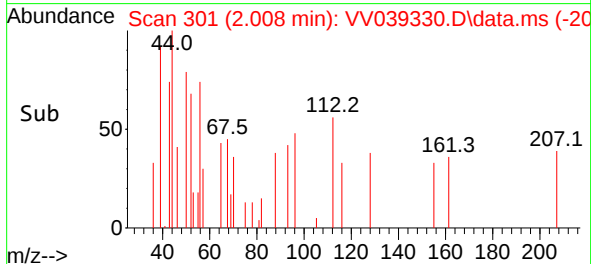
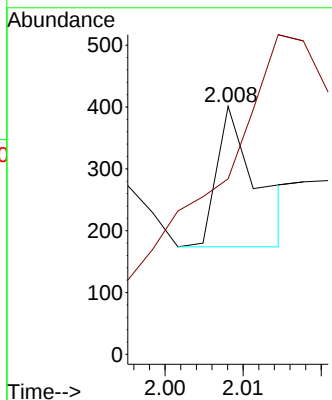
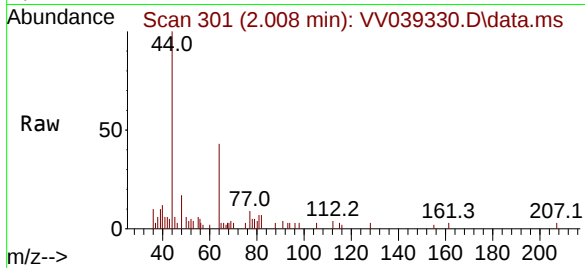




#13
Acrolein
Concen: Below Cal
RT: 2.008 min Scan# 301
Delta R.T. -0.000 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

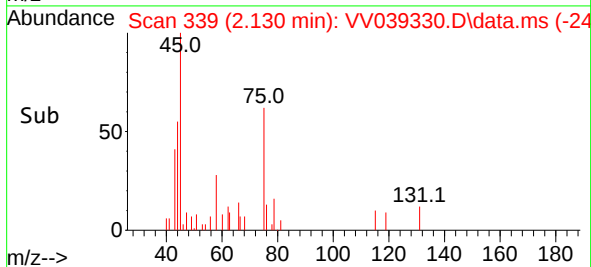
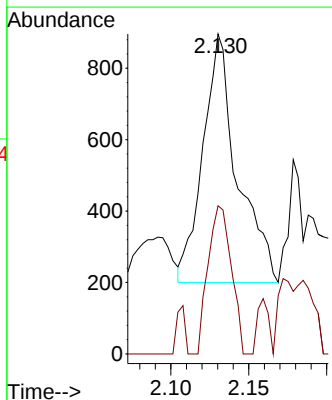
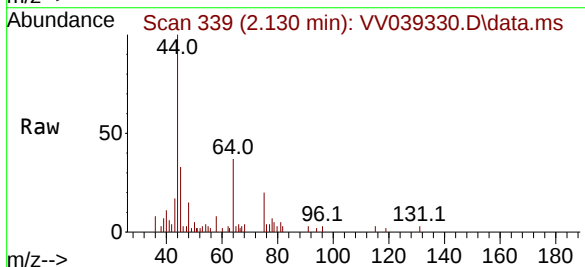
Instrument :
MSVOA_V
ClientSampleId :

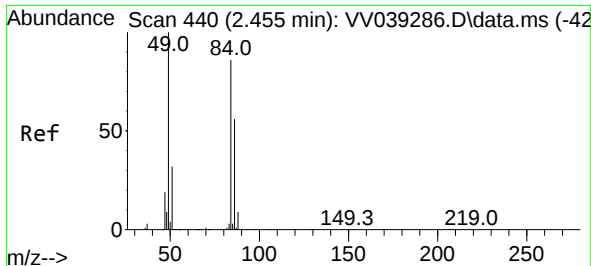
Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 775.6 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.130 min Scan# 339
Delta R.T. 0.013 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

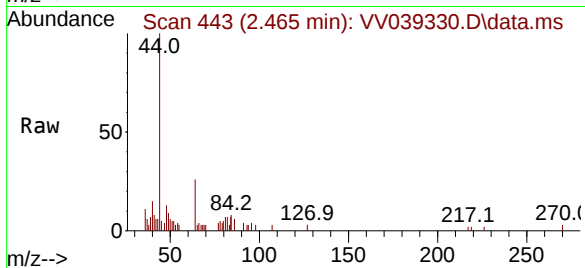
Tgt Ion: 43 Resp: 1068
Ion Ratio Lower Upper
43 100
58 42.8 27.5 41.3#



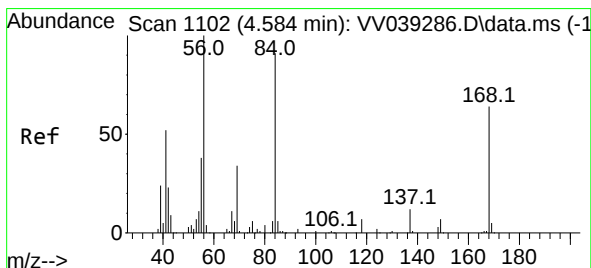
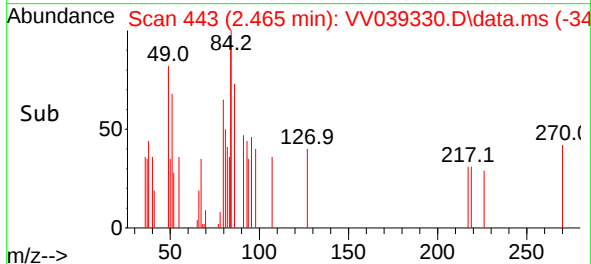
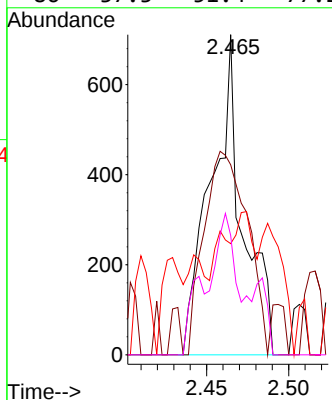


#20
Methylene Chloride
Concen: Below Cal
RT: 2.465 min Scan# 440
Delta R.T. 0.010 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Instrument :
MSVOA_V
ClientSampleId :

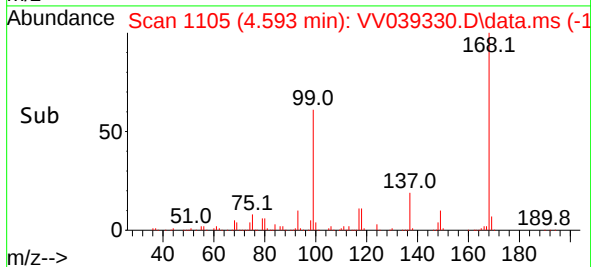
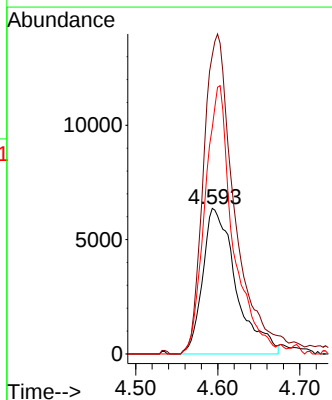
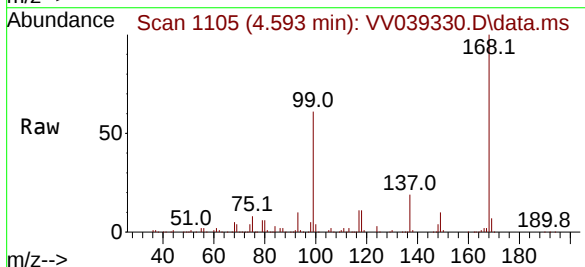


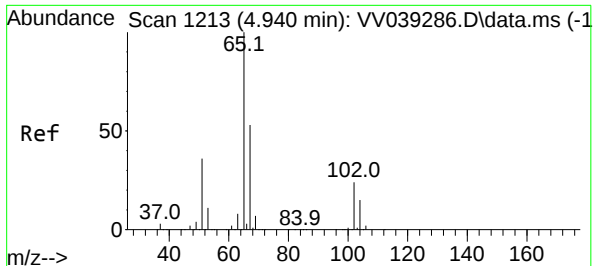
Tgt Ion:	84	Resp:	951
Ion	Ratio	Lower	Upper
84	100		
49	44.6	92.6	139.0#
51	9.0	29.6	44.4#
86	37.3	51.4	77.2#



#31
Cyclohexane
Concen: 1.122 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Tgt Ion:	56	Resp:	17997
Ion	Ratio	Lower	Upper
56	100		
69	205.3	27.4	41.0#
84	155.5	72.8	109.2#





#33

1,2-Dichloroethane-d4

Concen: 60.726 ug/l

RT: 4.937 min Scan# 1212

Delta R.T. -0.003 min

Lab File: VV039330.D

Acq: 05 Nov 2025 12:29

Instrument :

MSVOA_V

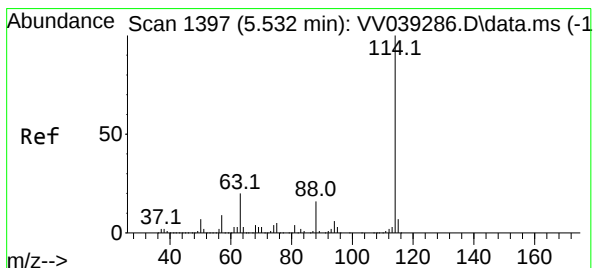
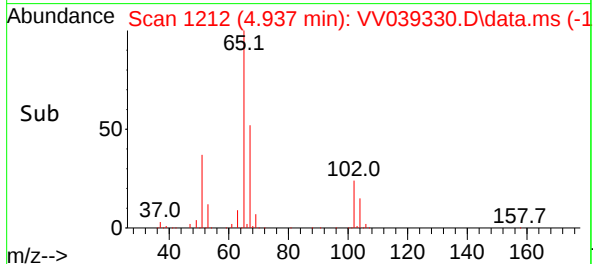
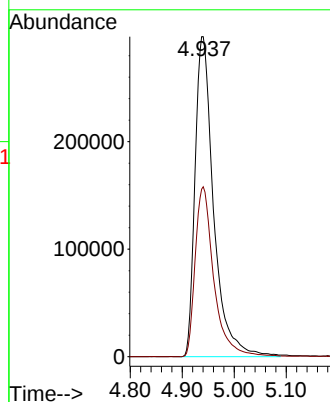
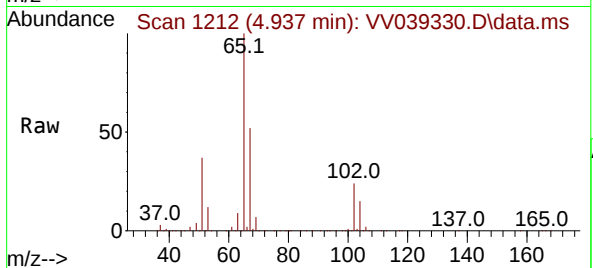
ClientSampleId :

Tgt Ion: 65 Resp: 739326

Ion Ratio Lower Upper

65 100

67 53.5 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: VV039330.D

Acq: 05 Nov 2025 12:29

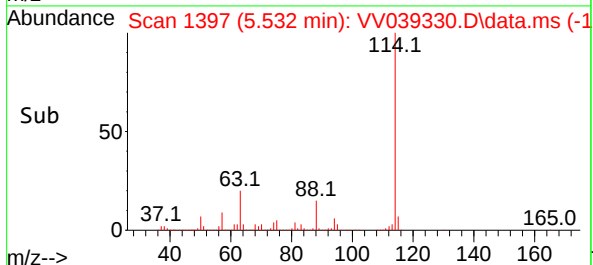
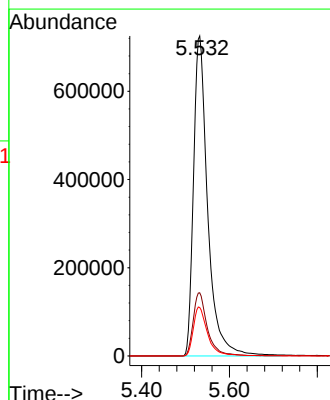
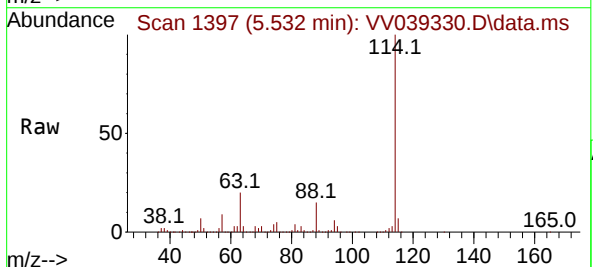
Tgt Ion: 114 Resp: 1628447

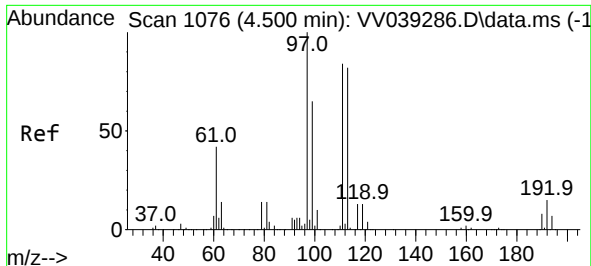
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

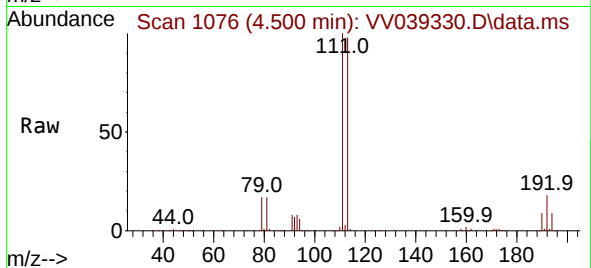
88 15.2 0.0 31.6



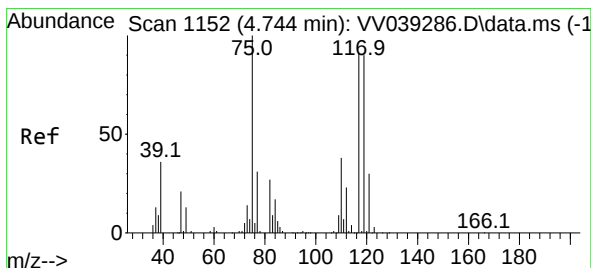
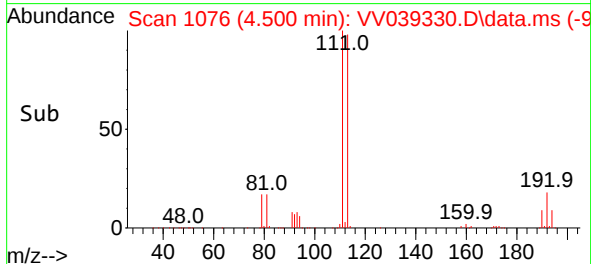
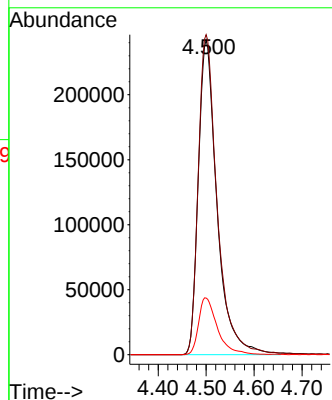


#35
 Dibromofluoromethane
 Concen: 51.229 ug/l
 RT: 4.500 min Scan# 1106
 Delta R.T. -0.000 min
 Lab File: VV039330.D
 Acq: 05 Nov 2025 12:29

Instrument :
 MSVOA_V
 ClientSampleId :

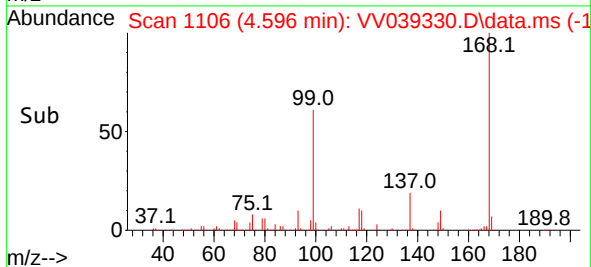
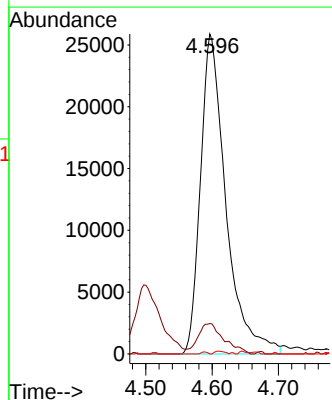
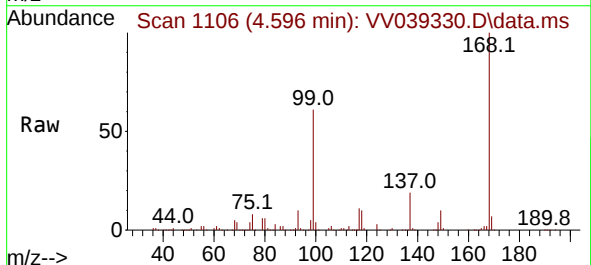


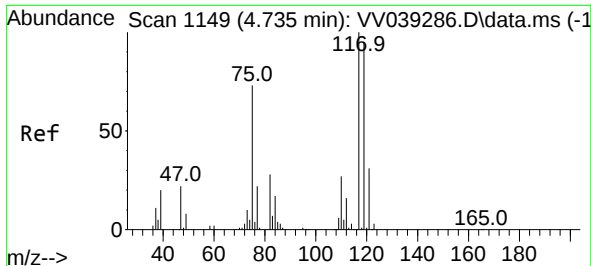
Tgt Ion:113 Resp: 657324
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.0 123.0
 192 18.2 14.3 21.5



#36
 1,1-Dichloropropene
 Concen: 4.275 ug/l
 RT: 4.596 min Scan# 1106
 Delta R.T. -0.148 min
 Lab File: VV039330.D
 Acq: 05 Nov 2025 12:29

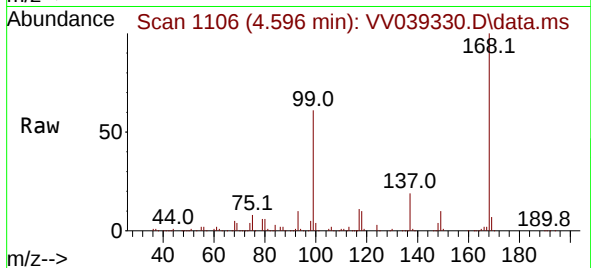
Tgt Ion: 75 Resp: 68899
 Ion Ratio Lower Upper
 75 100
 110 9.7 18.9 56.7#
 77 0.1 24.1 36.1#



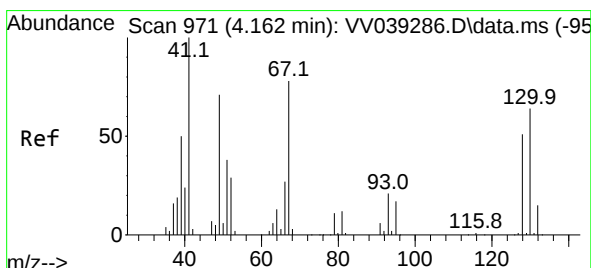
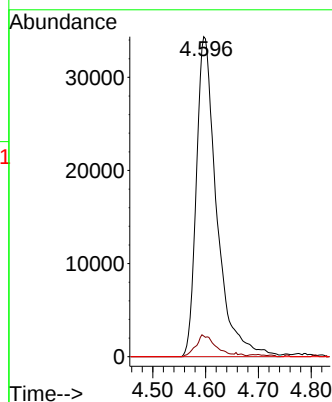
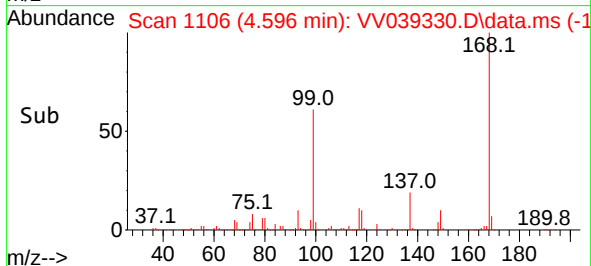


#38
Carbon Tetrachloride
Concen: 4.684 ug/l
RT: 4.596 min Scan# 1149
Delta R.T. -0.138 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Instrument :
MSVOA_V
ClientSampleId :

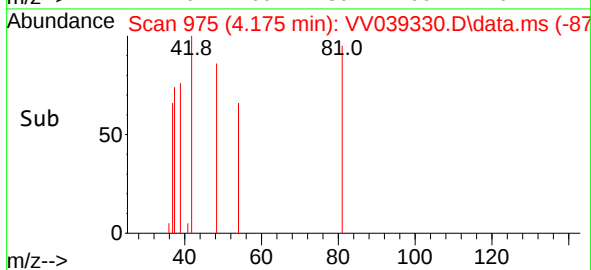
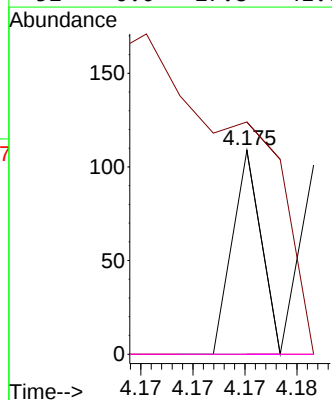
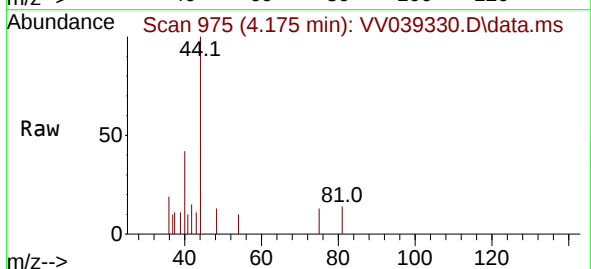


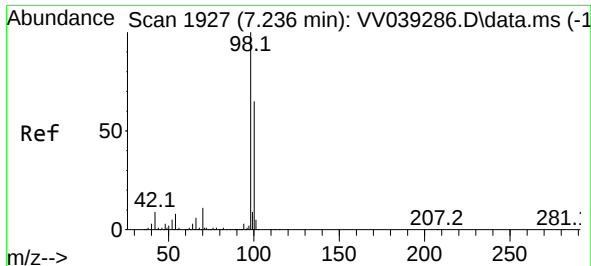
Tgt Ion:117 Resp: 91965
Ion Ratio Lower Upper
117 100
119 6.5 75.9 113.9#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 1.694 ug/l
RT: 4.175 min Scan# 975
Delta R.T. 0.013 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Tgt Ion: 41 Resp: 21
Ion Ratio Lower Upper
41 100
39 842.9 40.9 61.3#
67 0.0 73.1 109.7#
52 0.0 27.8 41.6#

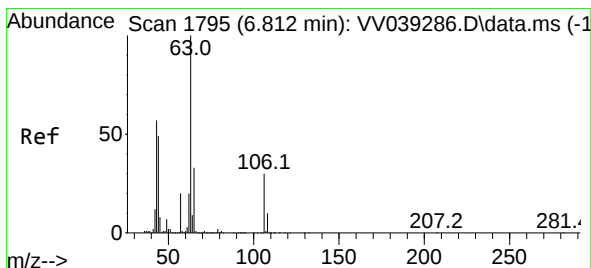
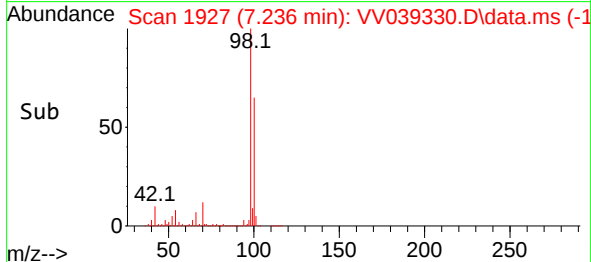
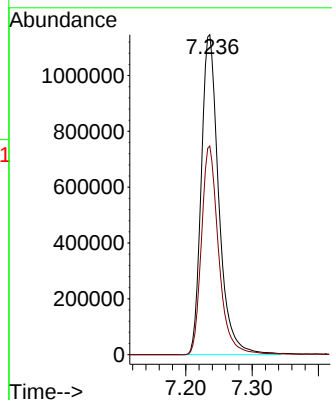
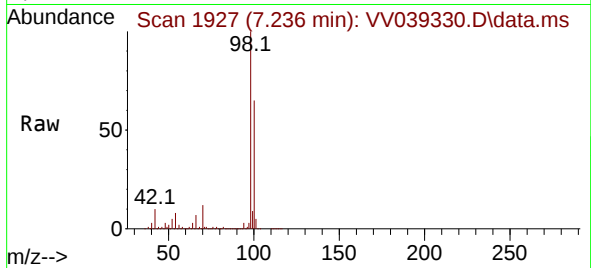




#50
Toluene-d8
Concen: 48.001 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

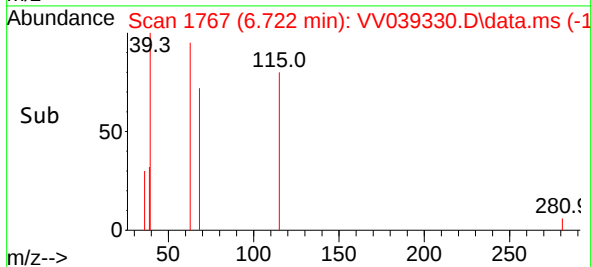
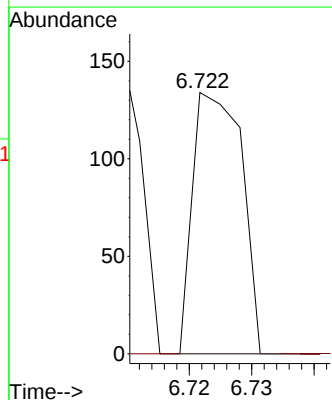
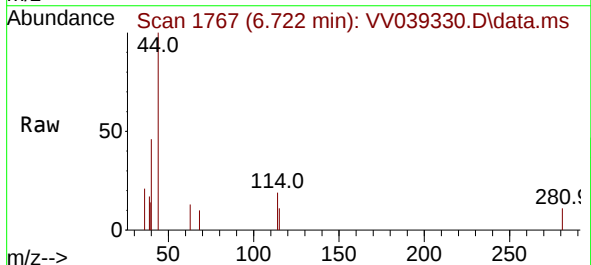
Instrument :
MSVOA_V
ClientSampleId :

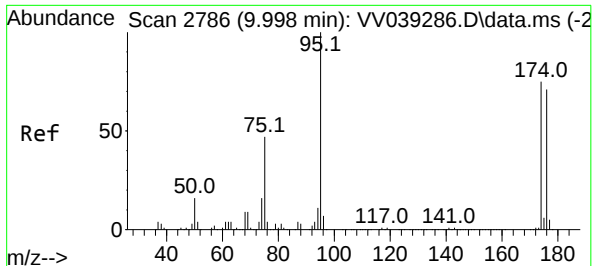
Tgt Ion: 98 Resp: 2095273
Ion Ratio Lower Upper
98 100
100 64.5 52.8 79.2



#58
2-Chloroethyl Vinyl ether
Concen: 8.475 ug/l
RT: 6.722 min Scan# 1767
Delta R.T. -0.090 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Tgt Ion: 63 Resp: 73
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#

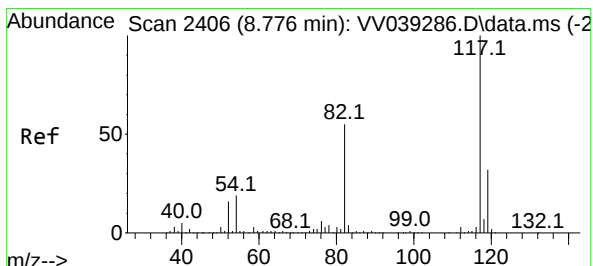
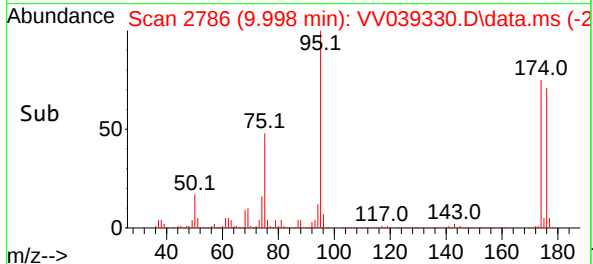
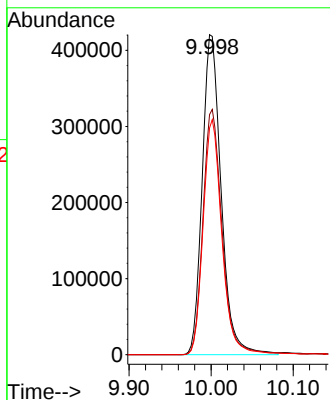
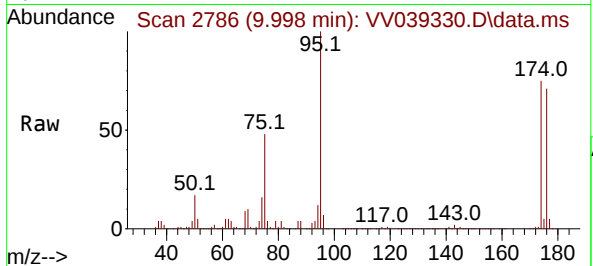




#62
4-Bromofluorobenzene
Concen: 43.374 ug/l
RT: 9.998 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

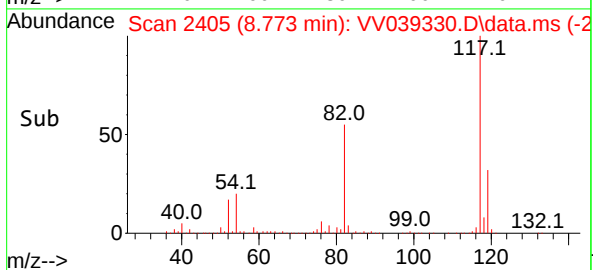
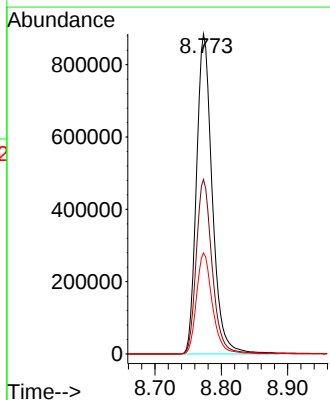
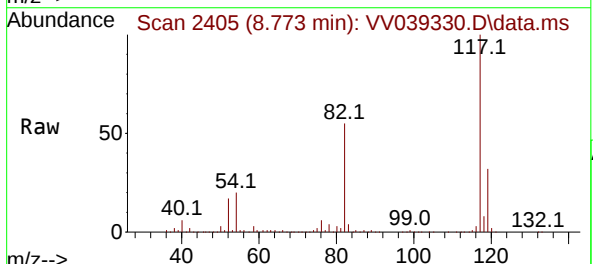
Instrument :
MSVOA_V
ClientSampleId :

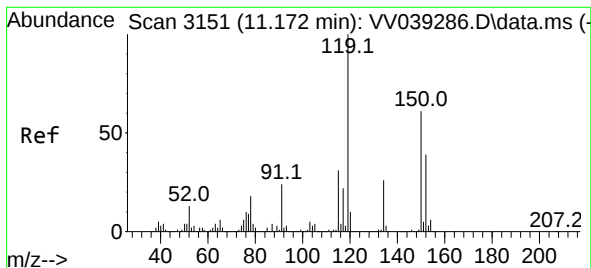
Tgt Ion: 95 Resp: 674284
Ion Ratio Lower Upper
95 100
174 77.9 0.0 153.6
176 73.3 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. -0.003 min
Lab File: VV039330.D
Acq: 05 Nov 2025 12:29

Tgt Ion: 117 Resp: 1466262
Ion Ratio Lower Upper
117 100
82 54.5 43.8 65.8
119 31.6 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: VV039330.D

Acq: 05 Nov 2025 12:29

Instrument :

MSVOA_V

ClientSampleId :

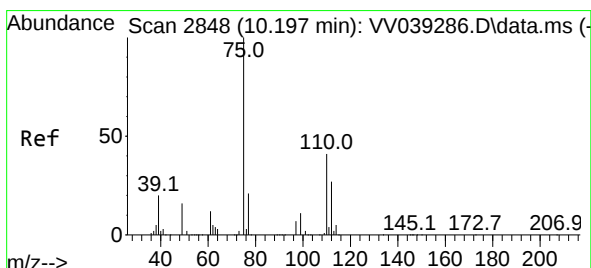
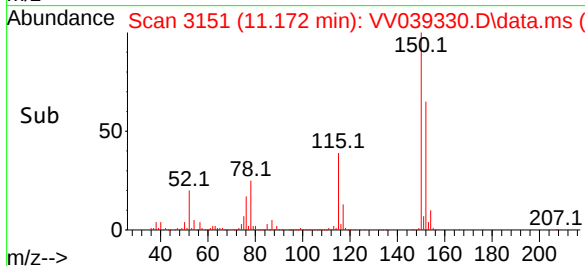
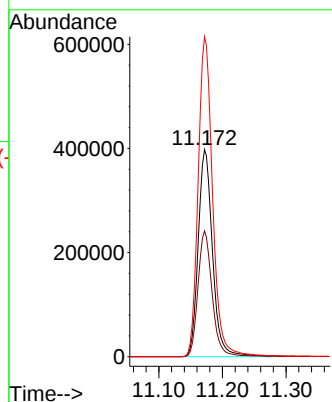
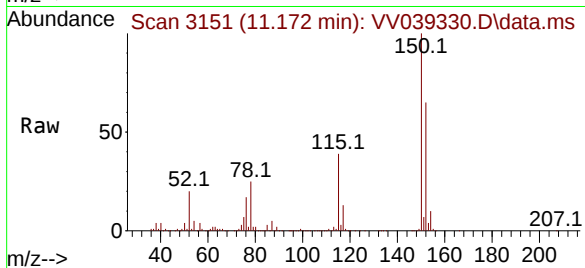
Tgt Ion:152 Resp: 623984

Ion Ratio Lower Upper

152 100

115 59.9 42.3 126.8

150 155.6 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 26.314 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. -0.199 min

Lab File: VV039330.D

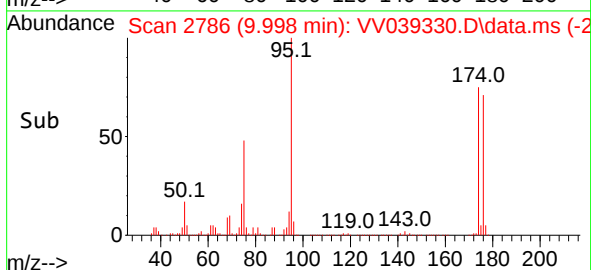
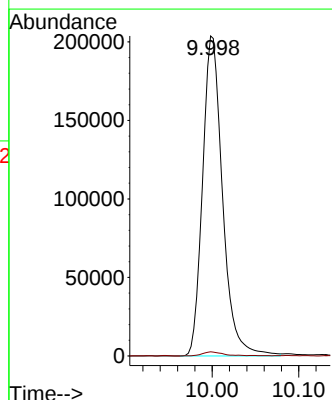
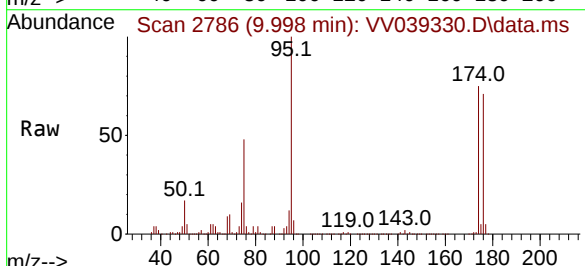
Acq: 05 Nov 2025 12:29

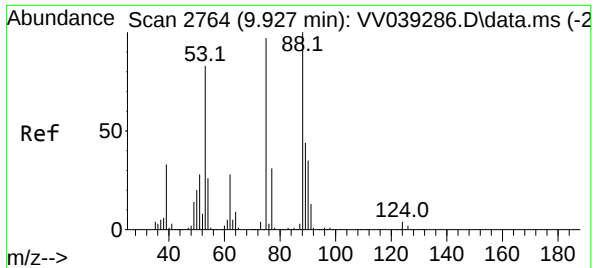
Tgt Ion: 75 Resp: 327712

Ion Ratio Lower Upper

75 100

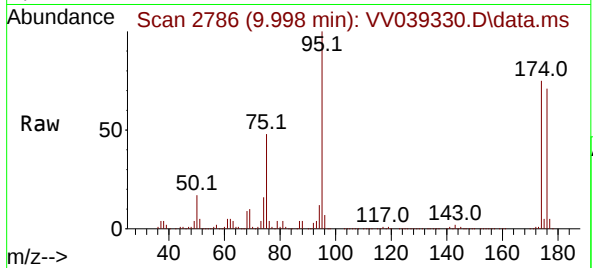
77 1.4 12.2 36.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.455 ug/l
 RT: 9.998 min Scan# 21
 Delta R.T. 0.071 min
 Lab File: VV039330.D
 Acq: 05 Nov 2025 12:29

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 75 Resp: 327712
 Ion Ratio Lower Upper
 75 100
 53 0.3 69.9 104.9#
 89 0.0 37.4 56.0#

