

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039320.D
 Acq On : 04 Nov 2025 17:24
 Operator : SY/MD
 Sample : Q3534-07
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:40:06 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)

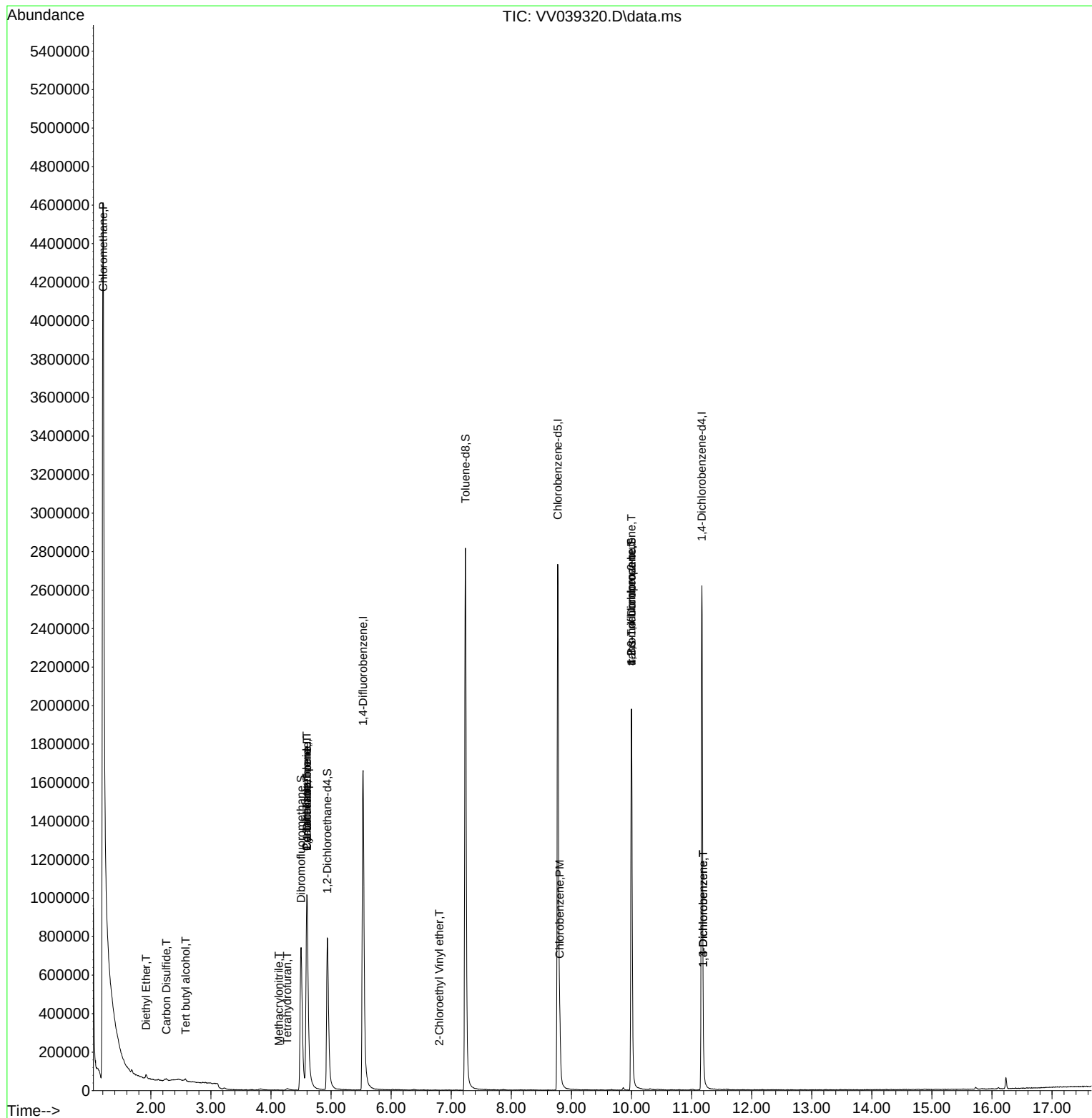
Internal Standards						
1) Pentafluorobenzene	4.600	168	890347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1641332	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1514755	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	687973	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	687885	54.372	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 108.740%	
35) Dibromofluoromethane	4.500	113	619545	47.906	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 95.820%	
50) Toluene-d8	7.236	98	2004989	45.572	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 91.140%	
62) 4-Bromofluorobenzene	9.998	95	679654	43.377	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 86.760%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.204	50	194379	16.591	ug/l #	43
8) Diethyl Ether	1.921	74	7972	1.080	ug/l	90
11) Tert butyl alcohol	2.581	59	4410	1.799	ug/l #	81
13) Acrolein	2.008	56	216	Below Cal	#	41
16) Acetone	2.127	43	6539	Below Cal		89
17) Carbon Disulfide	2.259	76	16802	0.495	ug/l	96
20) Methylene Chloride	2.458	84	1002	Below Cal	#	58
29) Tetrahydrofuran	4.272	42	3828	0.774	ug/l #	86
31) Cyclohexane	4.597	56	18429	1.105	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	72464	4.461	ug/l #	48
38) Carbon Tetrachloride	4.597	117	92873	4.693	ug/l #	17
41) Methacrylonitrile	4.130	41	133	1.707	ug/l #	17
58) 2-Chloroethyl Vinyl ether	6.802	63	43	8.472	ug/l #	45
65) Chlorobenzene	8.805	112	209972	5.855	ug/l	97
76) 1,2,3-Trichloropropane	9.998	75	334814	24.383	ug/l #	54
81) trans-1,4-Dichloro-2-b...	9.998	75	334814	61.580	ug/l #	14
87) 1,3-Dichlorobenzene	11.194	146	26527	1.158	ug/l #	66
88) 1,4-Dichlorobenzene	11.194	146	26527	1.035	ug/l #	66

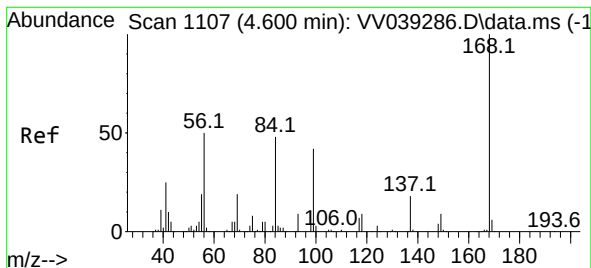
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VV039320.D

Acq: 04 Nov 2025 17:24

Instrument :

MSVOA_V

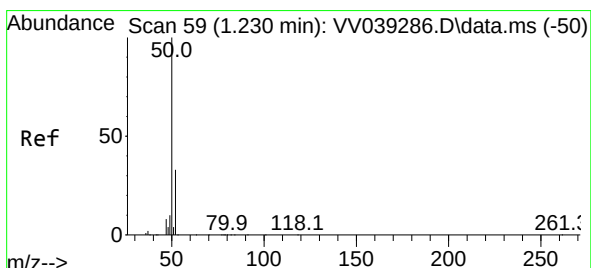
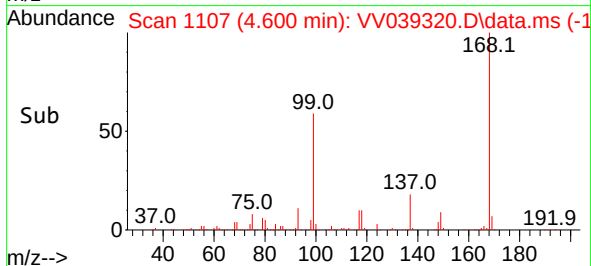
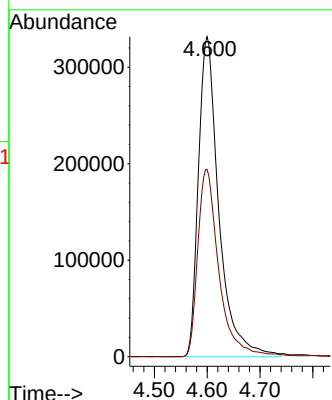
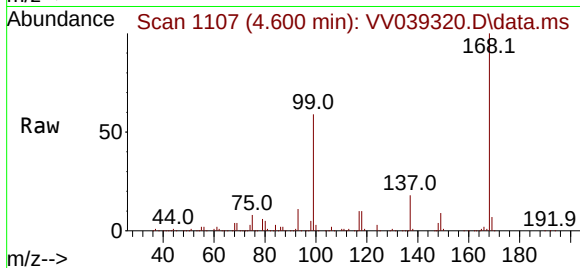
ClientSampleId :

Tgt Ion:168 Resp: 890347

Ion Ratio Lower Upper

168 100

99 58.5 46.6 70.0



#3

Chloromethane

Concen: 16.591 ug/l

RT: 1.204 min Scan# 51

Delta R.T. -0.026 min

Lab File: VV039320.D

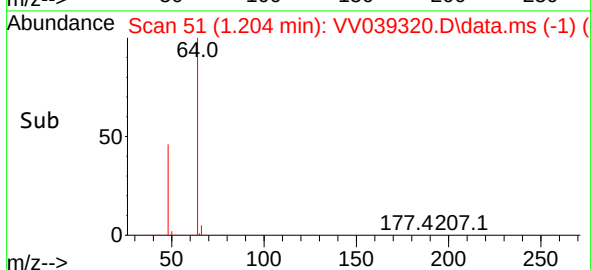
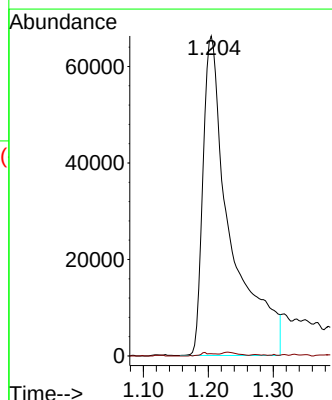
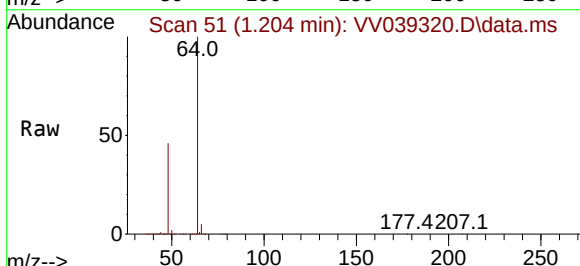
Acq: 04 Nov 2025 17:24

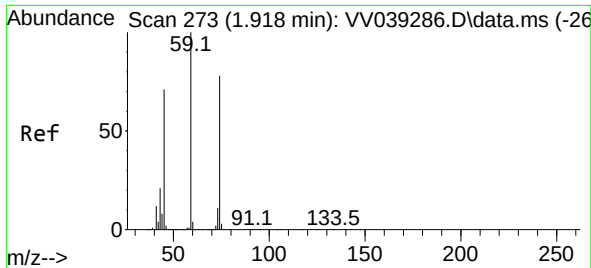
Tgt Ion: 50 Resp: 194379

Ion Ratio Lower Upper

50 100

52 0.7 26.6 39.8#

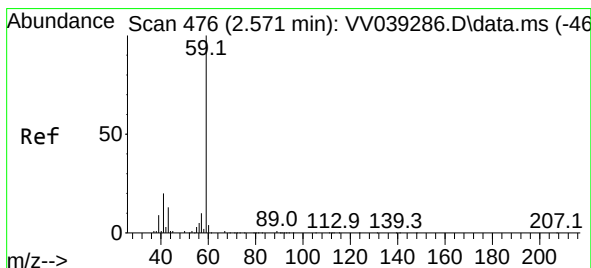
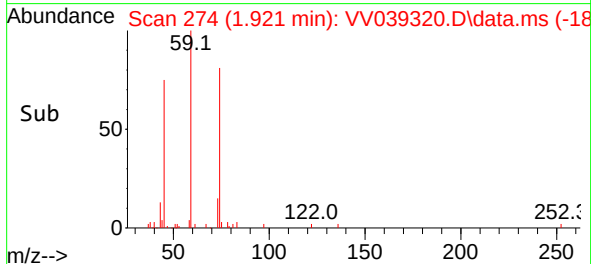
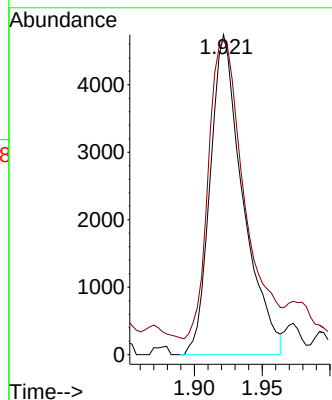
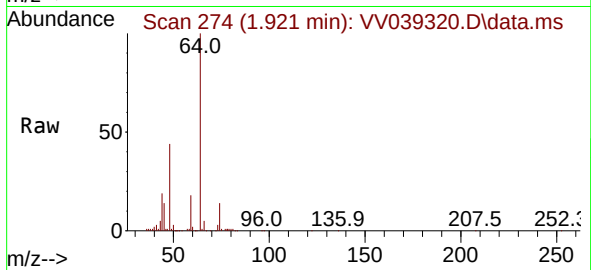




#8
Diethyl Ether
Concen: 1.080 ug/l
RT: 1.921 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

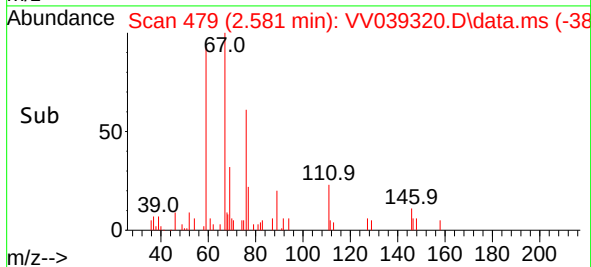
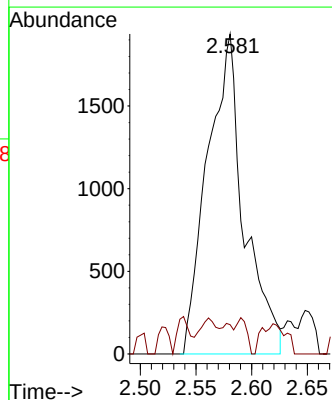
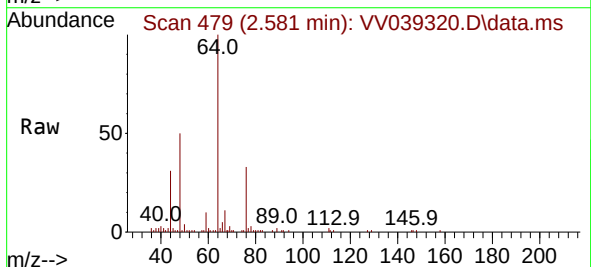
Instrument :
MSVOA_V
ClientSampleId :

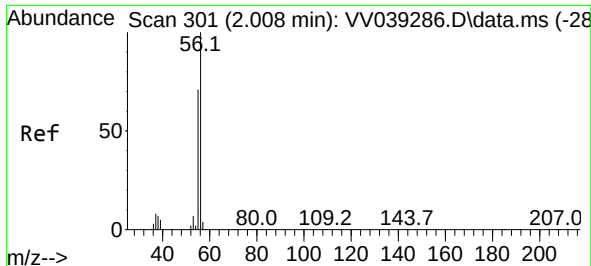
Tgt Ion: 74 Resp: 7972
Ion Ratio Lower Upper
74 100
45 101.8 45.9 137.7



#11
Tert butyl alcohol
Concen: 1.799 ug/l
RT: 2.581 min Scan# 479
Delta R.T. 0.010 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Tgt Ion: 59 Resp: 4410
Ion Ratio Lower Upper
59 100
57 3.1 8.1 12.1#

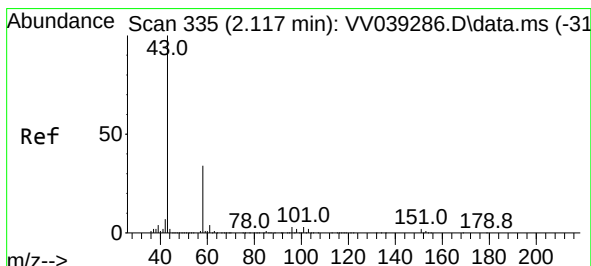
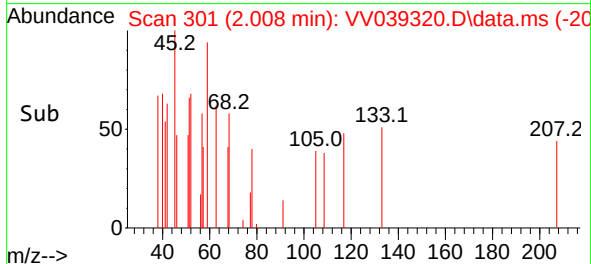
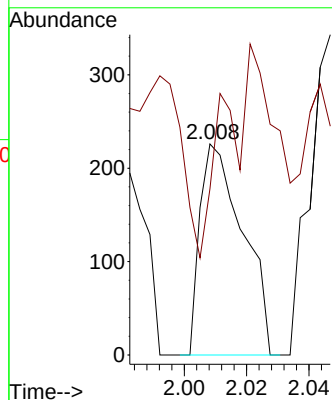
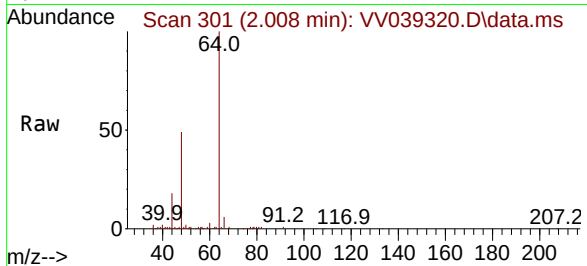




#13
Acrolein
Concen: Below Cal
RT: 2.008 min Scan# 301
Delta R.T. 0.000 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

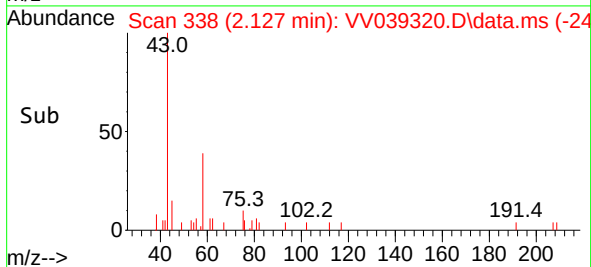
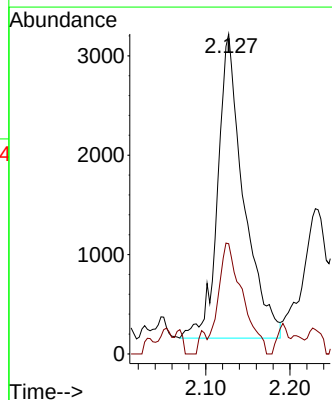
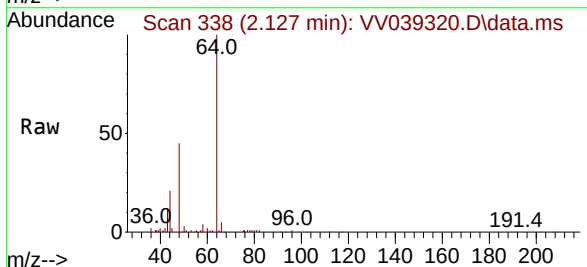
Instrument :
MSVOA_V
ClientSampleId :

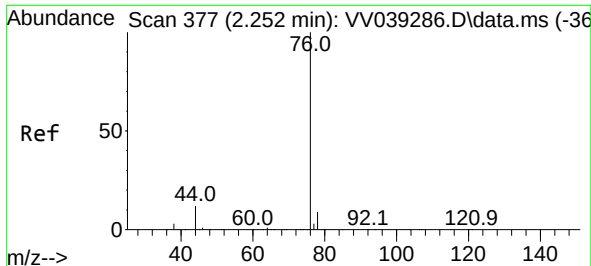
Tgt Ion: 56 Resp: 216
Ion Ratio Lower Upper
56 100
55 119.0 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.010 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Tgt Ion: 43 Resp: 6539
Ion Ratio Lower Upper
43 100
58 28.3 27.5 41.3

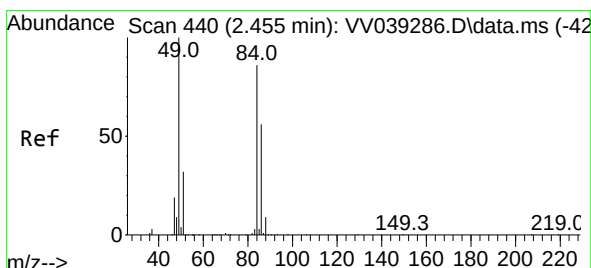
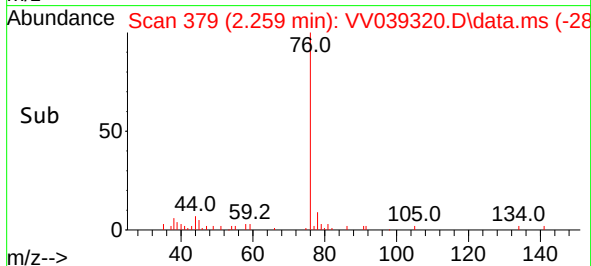
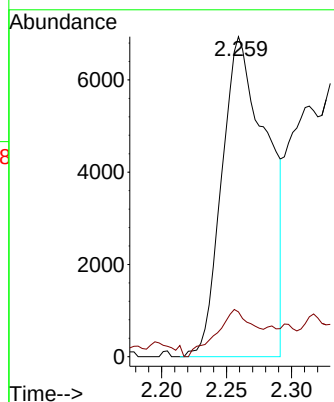
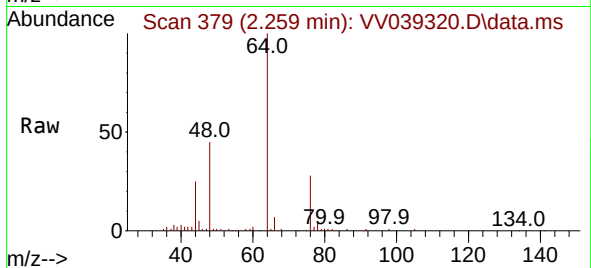




#17
Carbon Disulfide
Concen: 0.495 ug/l
RT: 2.259 min Scan# 31
Delta R.T. 0.007 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

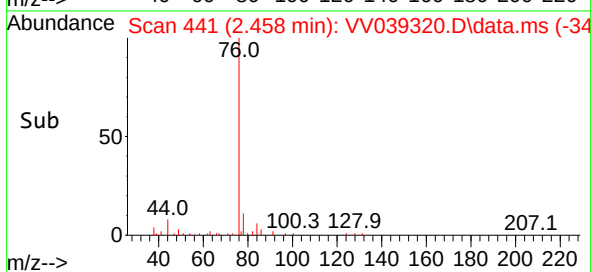
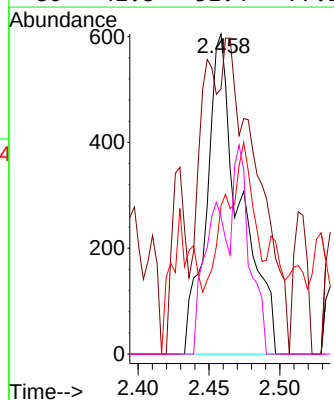
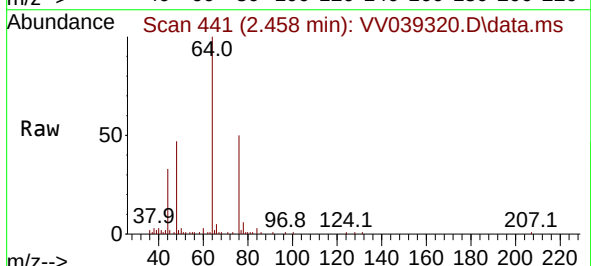
Instrument :
MSVOA_V
ClientSampleId :

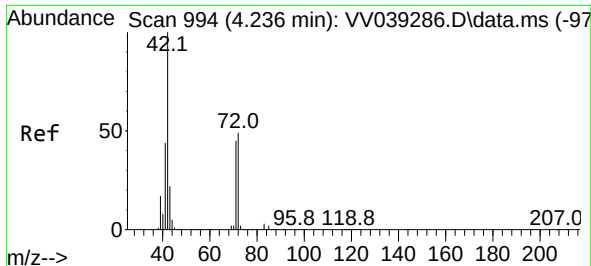
Tgt Ion: 76 Resp: 16802
Ion Ratio Lower Upper
76 100
78 10.5 7.4 11.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Tgt Ion: 84 Resp: 1002
Ion Ratio Lower Upper
84 100
49 57.0 92.6 139.0#
51 18.8 29.6 44.4#
86 42.8 51.4 77.2#





#29

Tetrahydrofuran

Concen: 0.774 ug/l

RT: 4.272 min Scan# 1105

Delta R.T. 0.036 min

Lab File: VV039320.D

Acq: 04 Nov 2025 17:24

Instrument :

MSVOA_V

ClientSampleId :

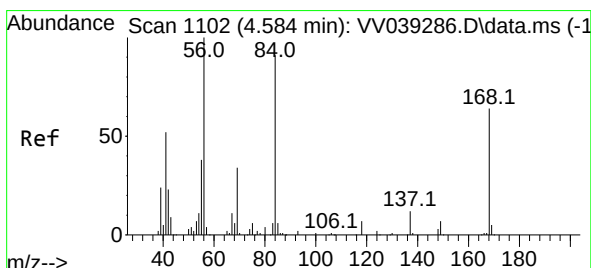
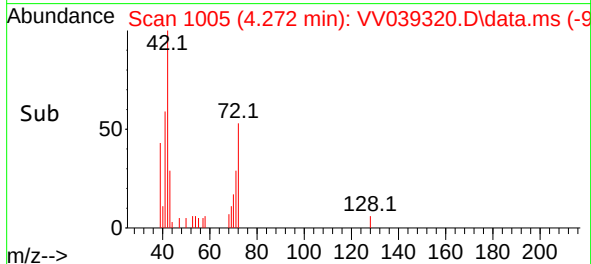
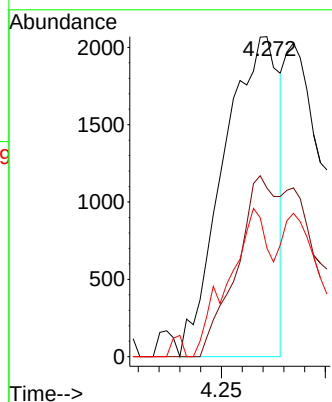
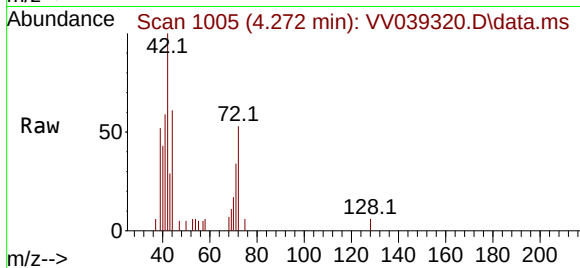
Tgt Ion: 42 Resp: 3828

Ion Ratio Lower Upper

42 100

72 42.8 39.8 59.8

71 34.2 36.5 54.7#



#31

Cyclohexane

Concen: 1.105 ug/l

RT: 4.597 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VV039320.D

Acq: 04 Nov 2025 17:24

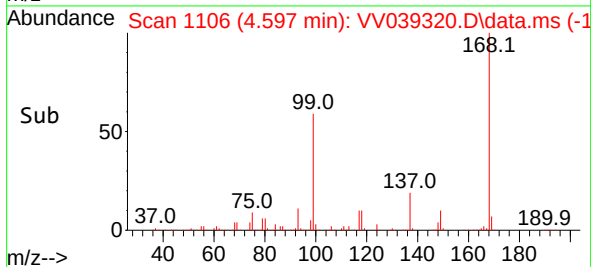
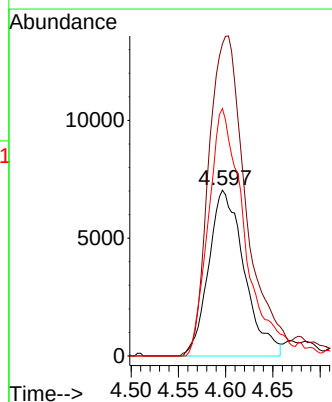
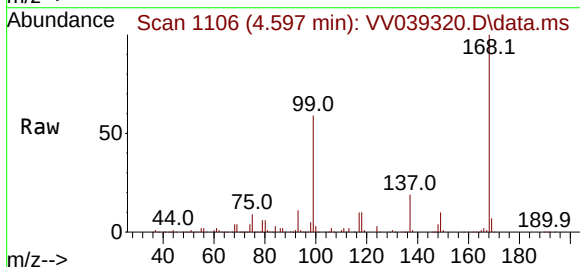
Tgt Ion: 56 Resp: 18429

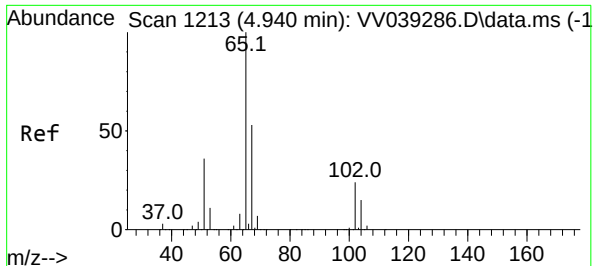
Ion Ratio Lower Upper

56 100

69 188.3 27.4 41.0#

84 149.3 72.8 109.2#





#33

1,2-Dichloroethane-d4

Concen: 54.372 ug/l

RT: 4.937 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV039320.D

Acq: 04 Nov 2025 17:24

Instrument :

MSVOA_V

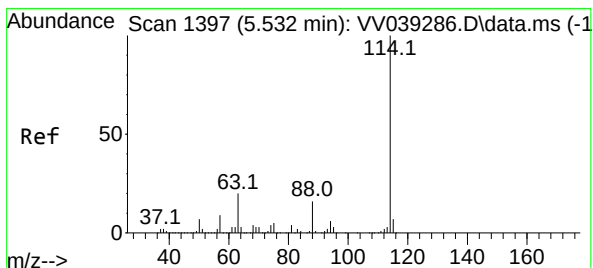
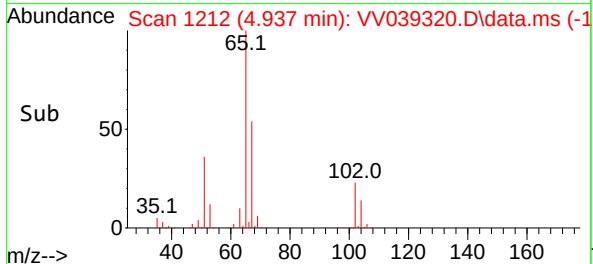
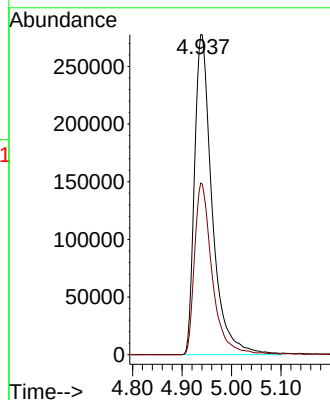
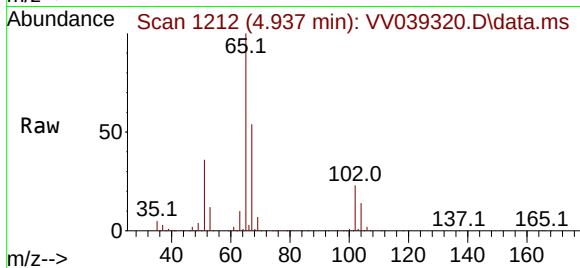
ClientSampleId :

Tgt Ion: 65 Resp: 687885

Ion Ratio Lower Upper

65 100

67 53.4 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: VV039320.D

Acq: 04 Nov 2025 17:24

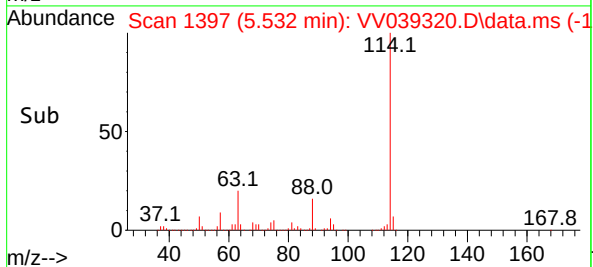
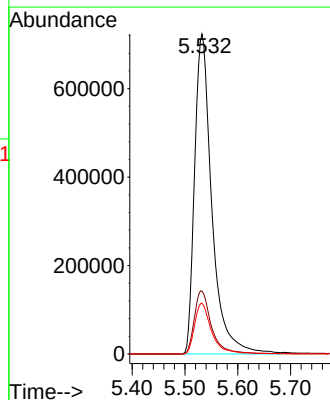
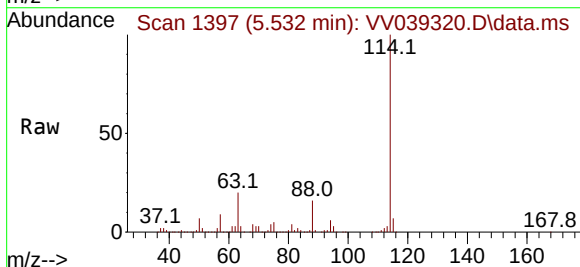
Tgt Ion: 114 Resp: 1641332

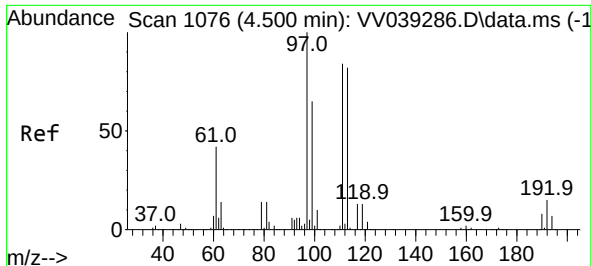
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 15.9 0.0 31.6

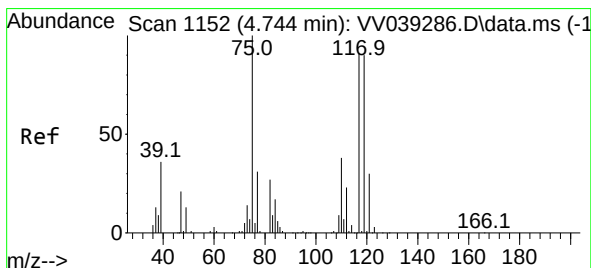
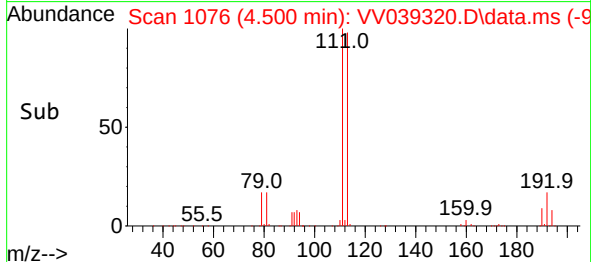
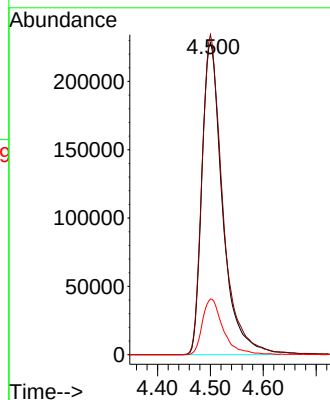
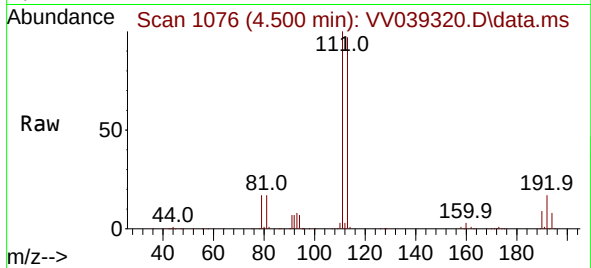




#35
Dibromofluoromethane
Concen: 47.906 ug/l
RT: 4.500 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

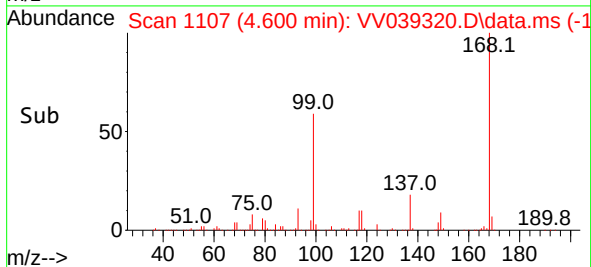
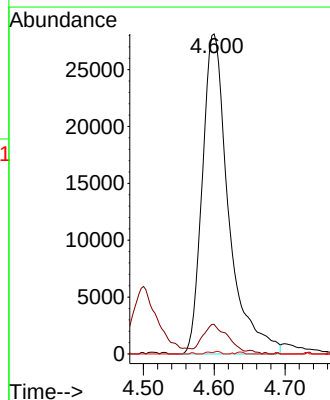
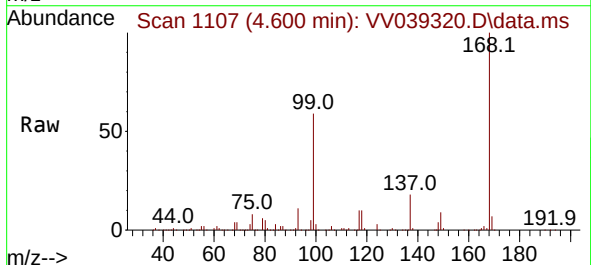
Instrument :
MSVOA_V
ClientSampleId :

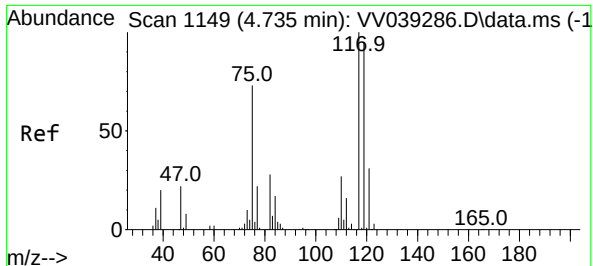
Tgt Ion:113 Resp: 619545
Ion Ratio Lower Upper
113 100
111 103.6 82.0 123.0
192 17.9 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.461 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

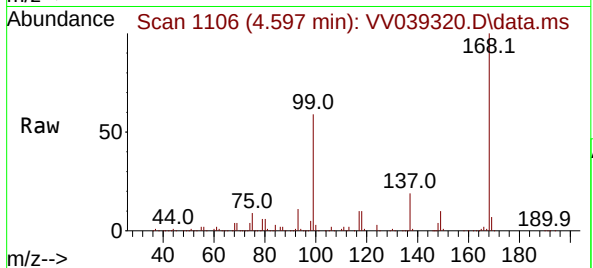
Tgt Ion: 75 Resp: 72464
Ion Ratio Lower Upper
75 100
110 7.7 18.9 56.7#
77 0.2 24.1 36.1#



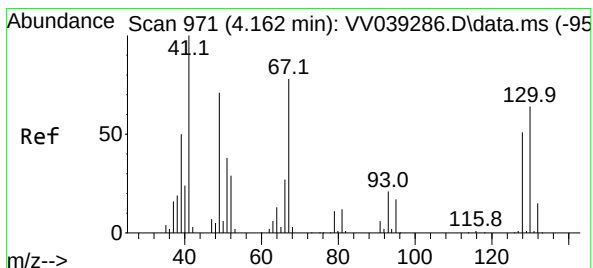
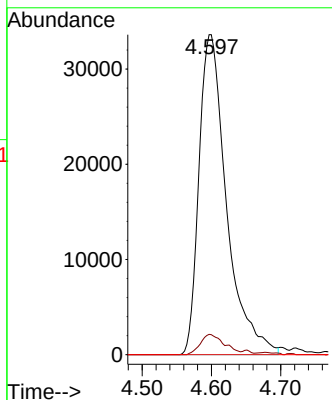
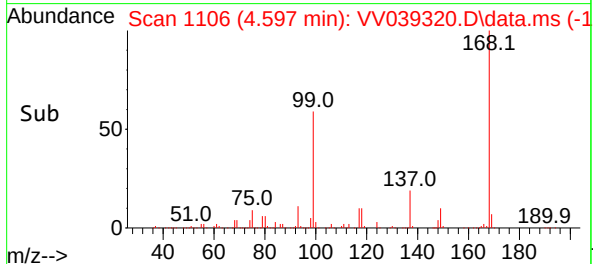


#38
Carbon Tetrachloride
Concen: 4.693 ug/l
RT: 4.597 min Scan# 1149
Delta R.T. -0.138 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Instrument :
MSVOA_V
ClientSampleId :

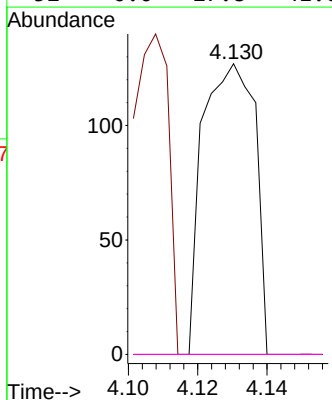
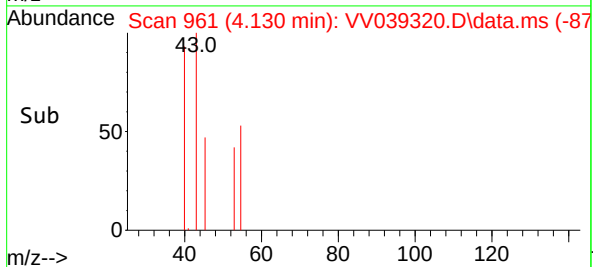
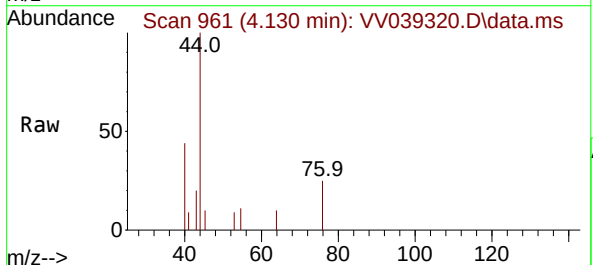


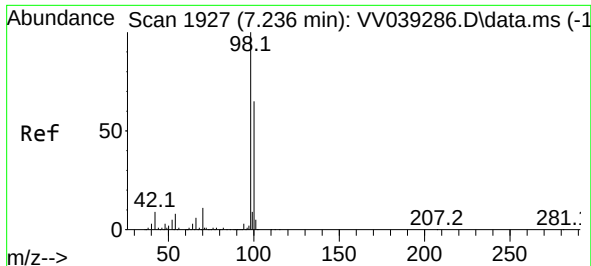
Tgt Ion:117 Resp: 92873
Ion Ratio Lower Upper
117 100
119 6.3 75.9 113.9#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 1.707 ug/l
RT: 4.130 min Scan# 961
Delta R.T. -0.032 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Tgt Ion: 41 Resp: 133
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#

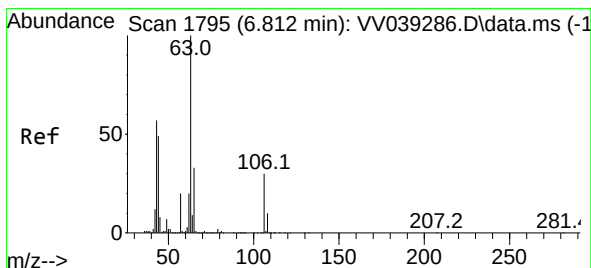
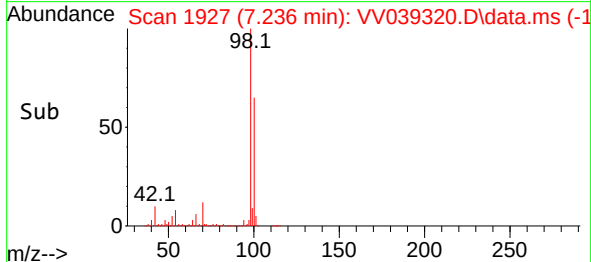
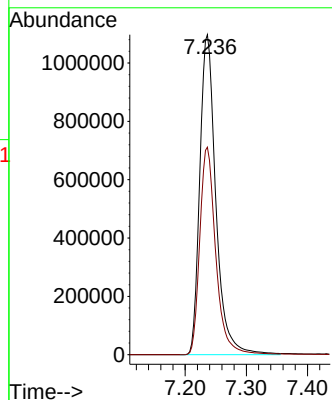
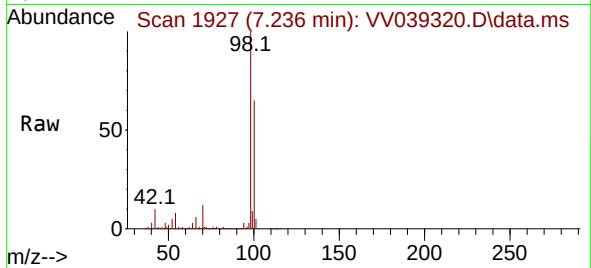




#50
Toluene-d8
Concen: 45.572 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

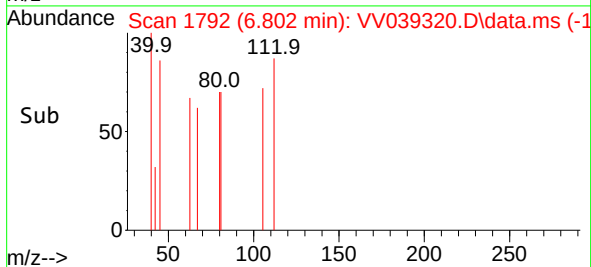
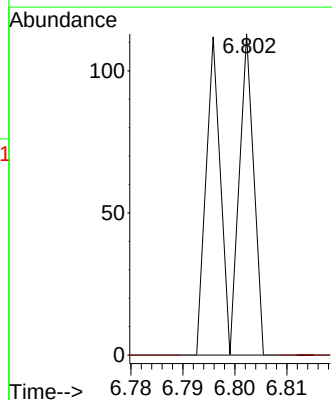
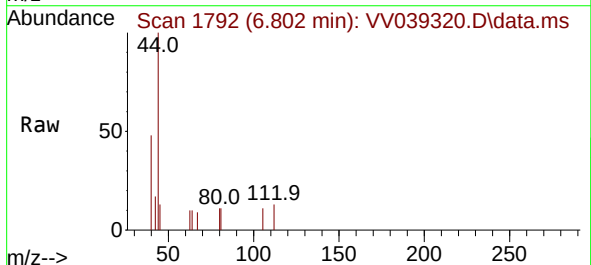
Instrument :
MSVOA_V
ClientSampleId :

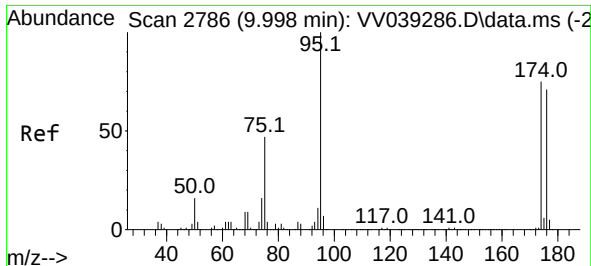
Tgt Ion: 98 Resp: 2004989
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#58
2-Chloroethyl Vinyl ether
Concen: 8.472 ug/l
RT: 6.802 min Scan# 1792
Delta R.T. -0.010 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

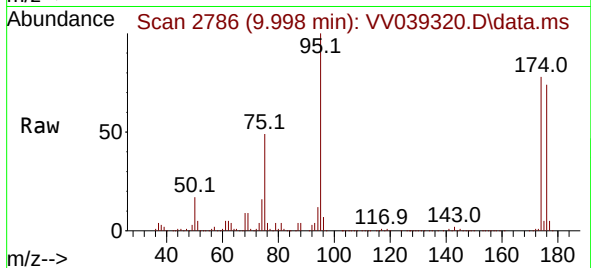
Tgt Ion: 63 Resp: 43
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



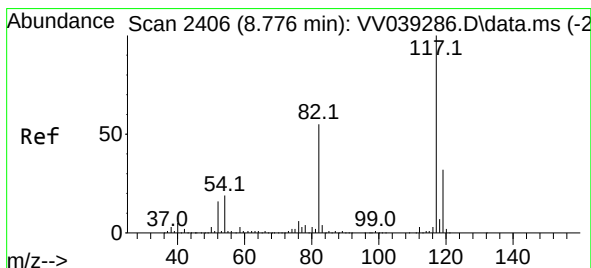
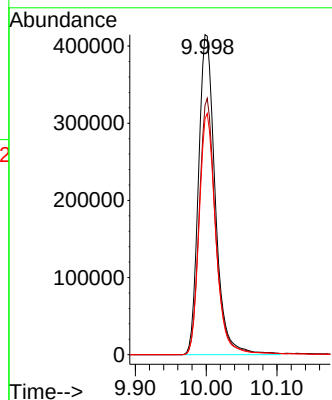
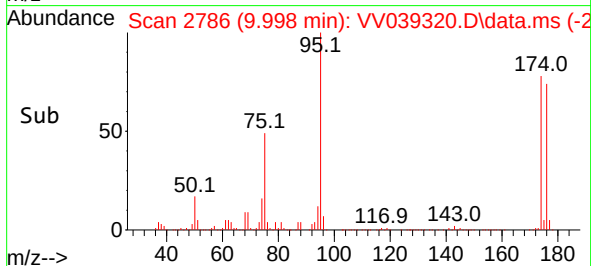


#62
4-Bromofluorobenzene
Concen: 43.377 ug/l
RT: 9.998 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Instrument :
MSVOA_V
ClientSampleId :

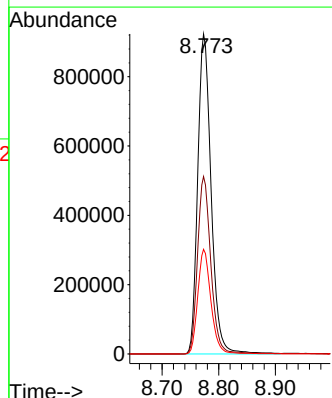
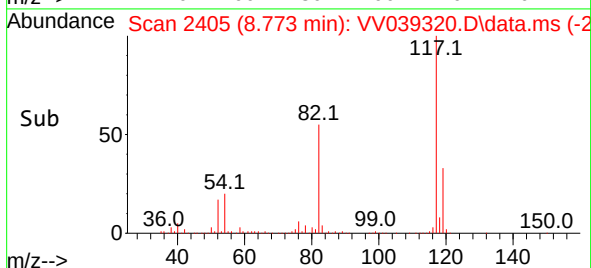
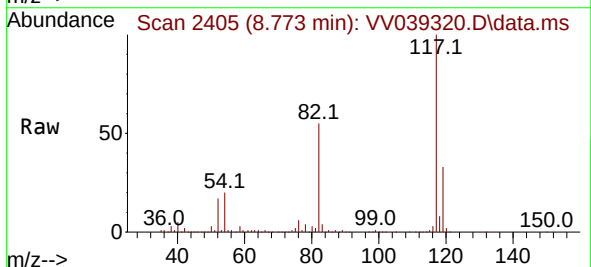


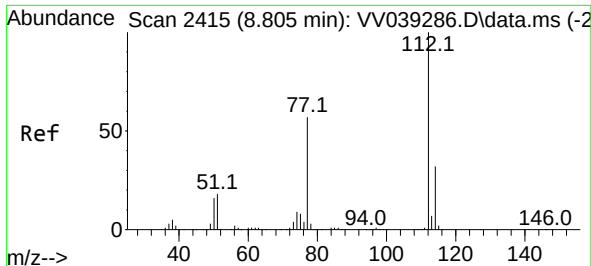
Tgt Ion: 95 Resp: 679654
Ion Ratio Lower Upper
95 100
174 78.6 0.0 153.6
176 75.0 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. -0.003 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Tgt Ion: 117 Resp: 1514755
Ion Ratio Lower Upper
117 100
82 55.5 43.8 65.8
119 32.7 25.8 38.6

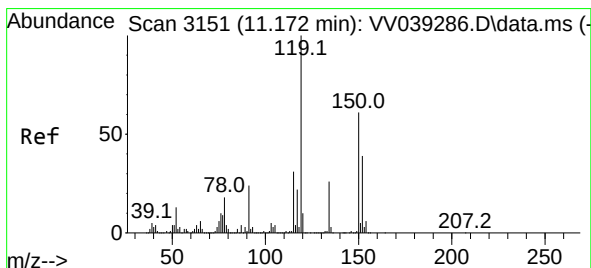
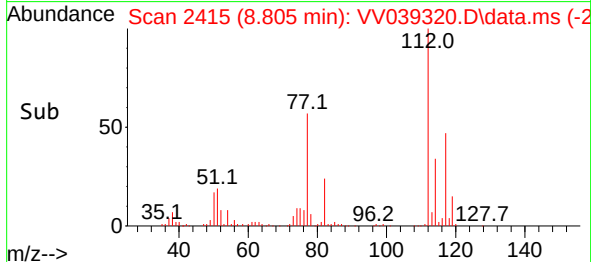
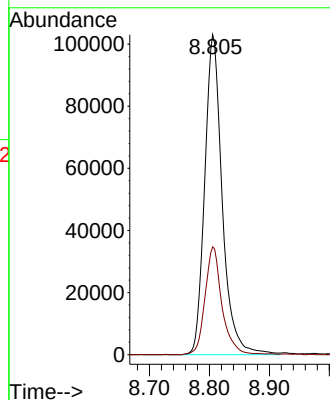
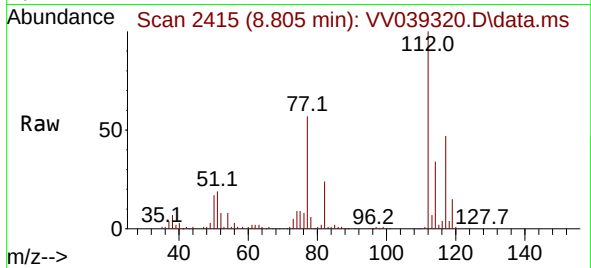




#65
Chlorobenzene
Concen: 5.855 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.000 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

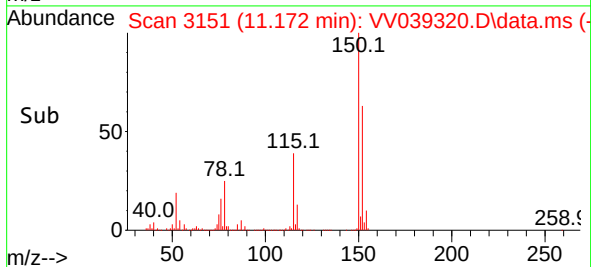
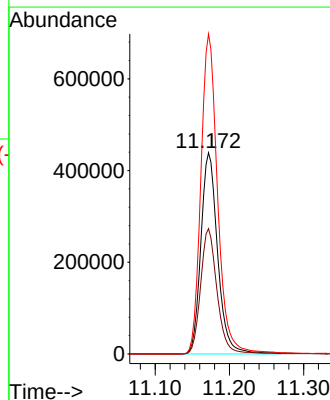
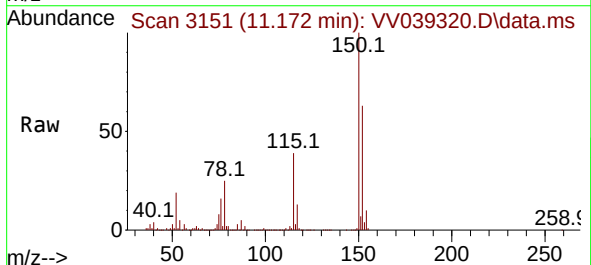
Instrument :
MSVOA_V
ClientSampleId :

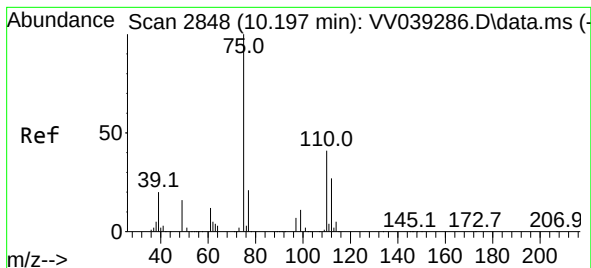
Tgt Ion:112 Resp: 209972
Ion Ratio Lower Upper
112 100
114 33.7 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Tgt Ion:152 Resp: 687973
Ion Ratio Lower Upper
152 100
115 61.2 42.3 126.8
150 159.2 0.0 348.0





#76

1,2,3-Trichloropropane

Concen: 24.383 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. -0.199 min

Lab File: VV039320.D

Acq: 04 Nov 2025 17:24

Instrument :

MSVOA_V

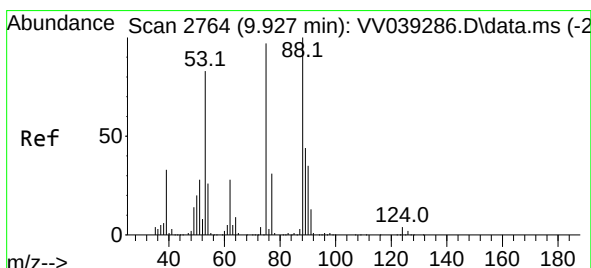
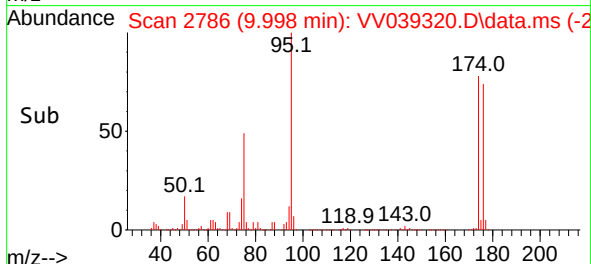
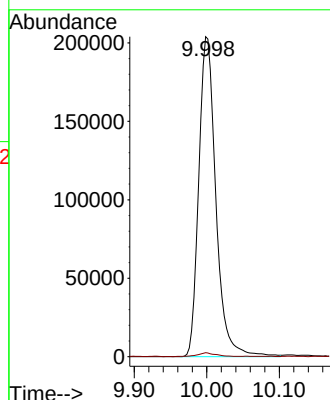
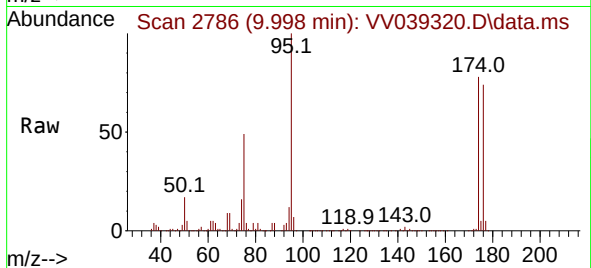
ClientSampleId :

Tgt Ion: 75 Resp: 334814

Ion Ratio Lower Upper

75 100

77 1.4 12.2 36.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.580 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. 0.071 min

Lab File: VV039320.D

Acq: 04 Nov 2025 17:24

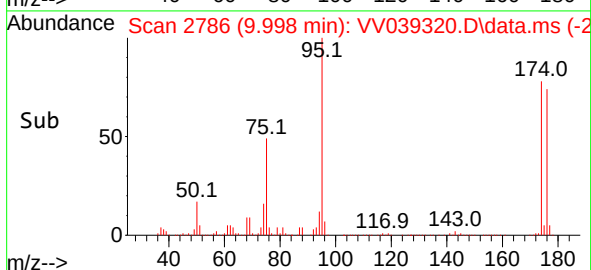
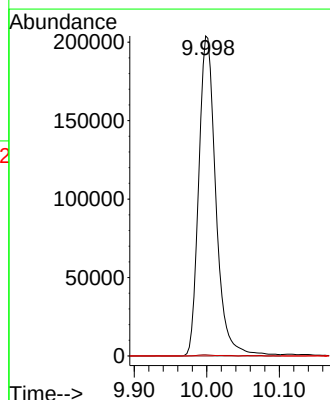
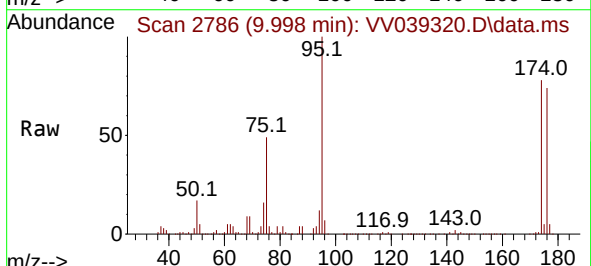
Tgt Ion: 75 Resp: 334814

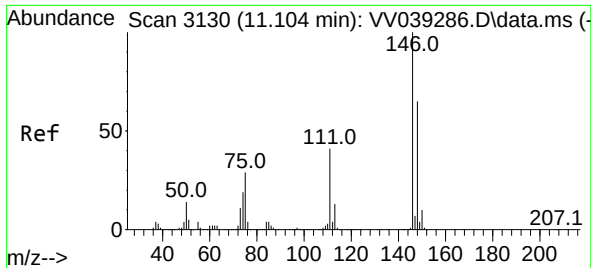
Ion Ratio Lower Upper

75 100

53 0.3 69.9 104.9#

89 0.0 37.4 56.0#

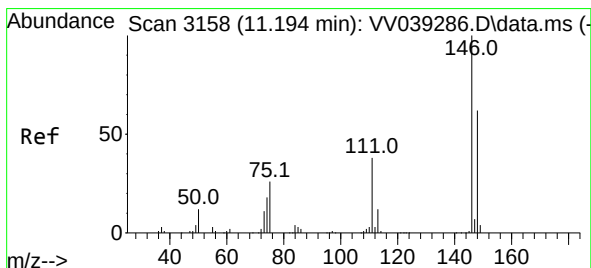
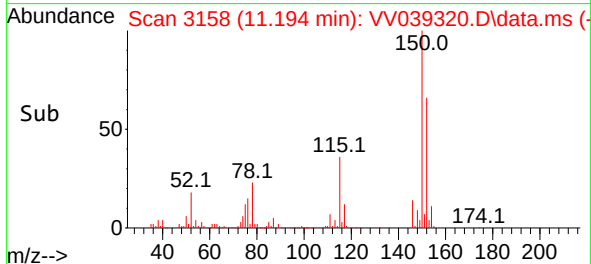
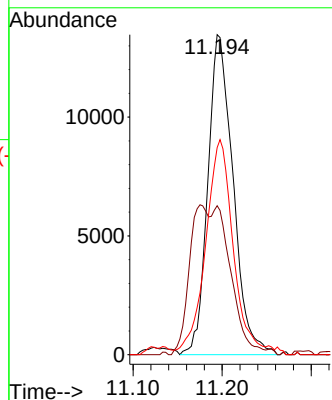
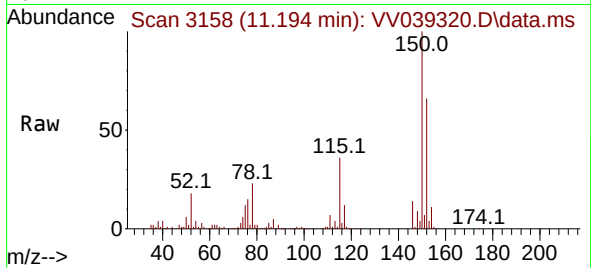




#87
1,3-Dichlorobenzene
Concen: 1.158 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. 0.090 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 26527
Ion Ratio Lower Upper
146 100
111 0.0 20.6 61.8#
148 74.3 31.9 95.9



#88
1,4-Dichlorobenzene
Concen: 1.035 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. 0.000 min
Lab File: VV039320.D
Acq: 04 Nov 2025 17:24

Tgt Ion:146 Resp: 26527
Ion Ratio Lower Upper
146 100
111 0.0 19.7 59.0#
148 74.3 31.5 94.5

