

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039325.D
 Acq On : 04 Nov 2025 19:17
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:42:19 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)

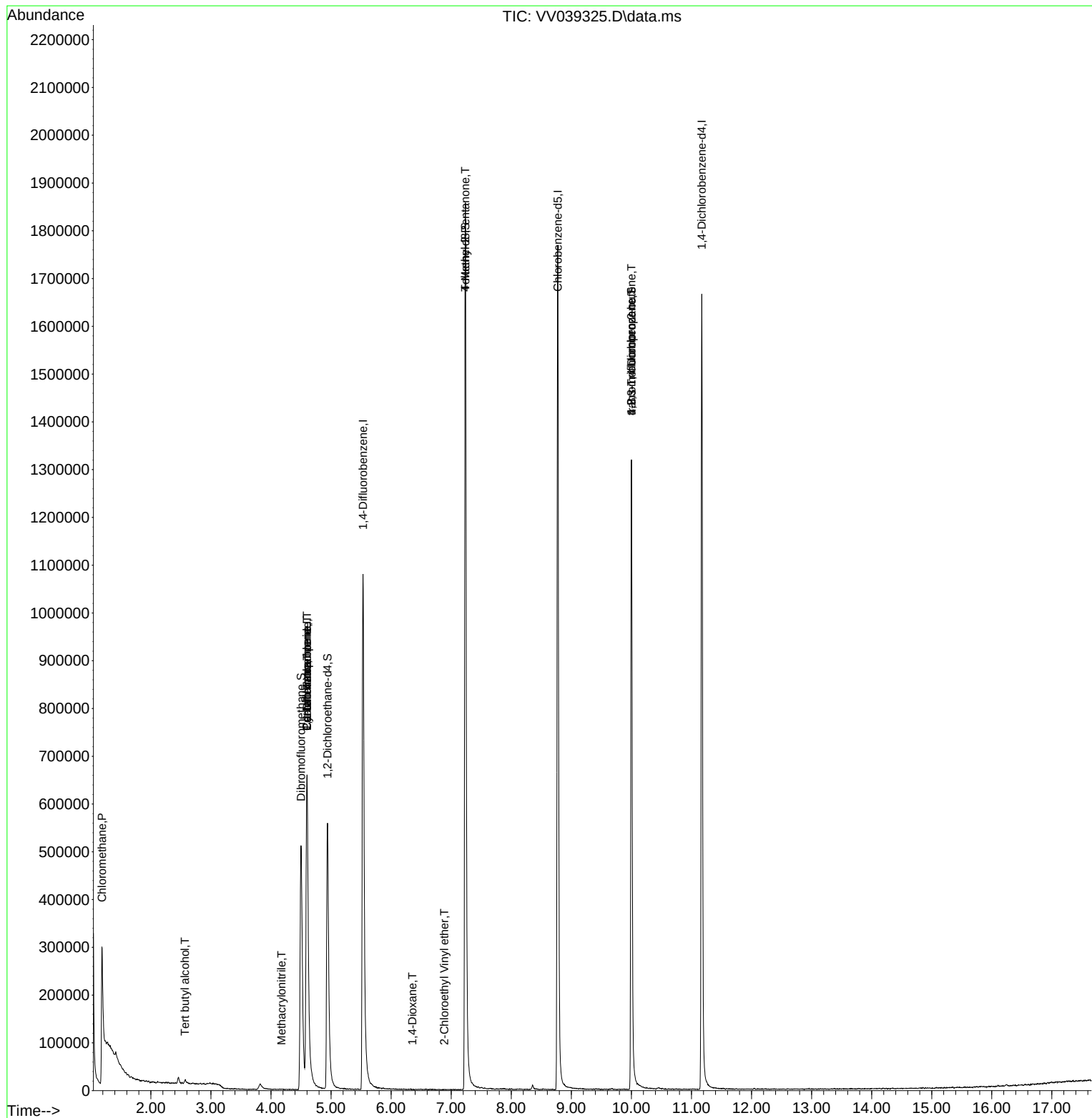
Internal Standards						
1) Pentafluorobenzene	4.600	168	582530	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1074765	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1027374	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	455789	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	495169	59.822	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 119.640%#	
35) Dibromofluoromethane	4.500	113	435815	51.464	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 102.920%	
50) Toluene-d8	7.236	98	1326623	46.049	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 92.100%	
62) 4-Bromofluorobenzene	10.001	95	450761	43.934	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 87.860%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.185	50	7572	0.988	ug/l #	47
11) Tert butyl alcohol	2.568	59	1975	1.231	ug/l #	79
13) Acrolein	2.008	56	143	Below Cal	#	42
16) Acetone	2.114	43	172	Below Cal	#	53
20) Methylene Chloride	2.462	84	6953	Below Cal		93
31) Cyclohexane	4.600	56	13076	1.199	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	48337	4.545	ug/l #	44
38) Carbon Tetrachloride	4.600	117	61714	4.762	ug/l #	19
41) Methacrylonitrile	4.175	41	162	1.721	ug/l #	21
49) 1,4-Dioxane	6.355	88	84	0.669	ug/l #	23
51) 4-Methyl-2-Pentanone	7.233	43	5057	0.447	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.886	63	20	8.471	ug/l #	45
76) 1,2,3-Trichloropropane	10.001	75	221189	24.314	ug/l #	54
81) trans-1,4-Dichloro-2-b...	10.001	75	221189	61.406	ug/l #	14

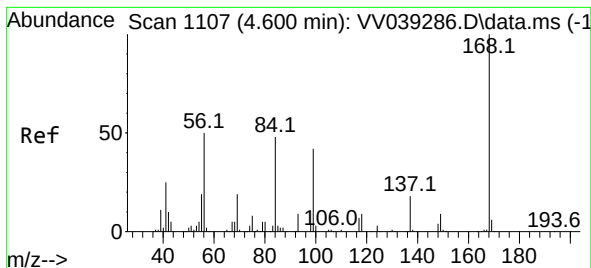
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VV039325.D

Acq: 04 Nov 2025 19:17

Instrument :

MSVOA_V

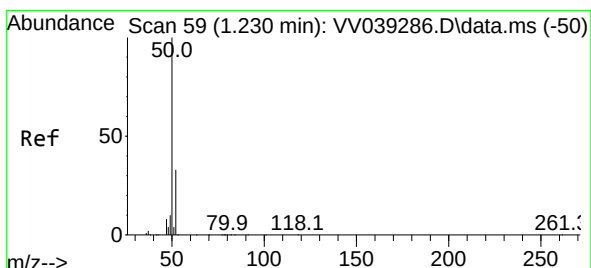
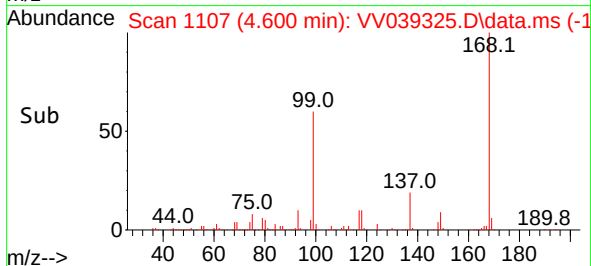
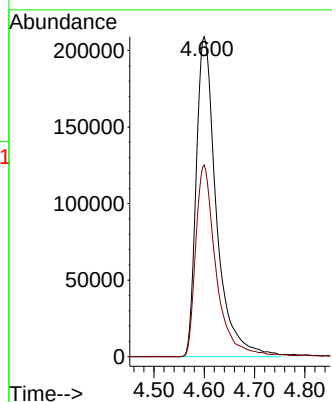
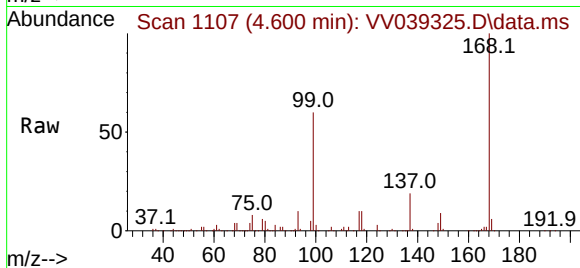
ClientSampleId :

Tgt Ion:168 Resp: 582530

Ion Ratio Lower Upper

168 100

99 59.9 46.6 70.0



#3

Chloromethane

Concen: 0.988 ug/l

RT: 1.185 min Scan# 45

Delta R.T. -0.045 min

Lab File: VV039325.D

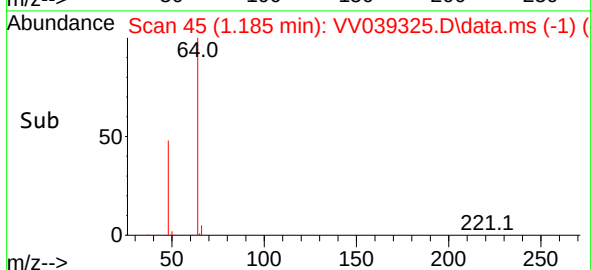
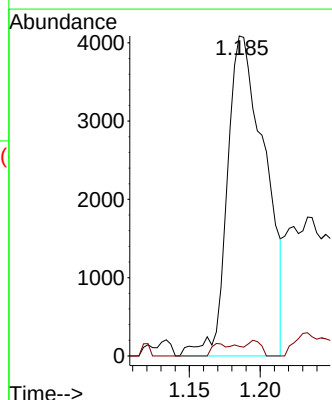
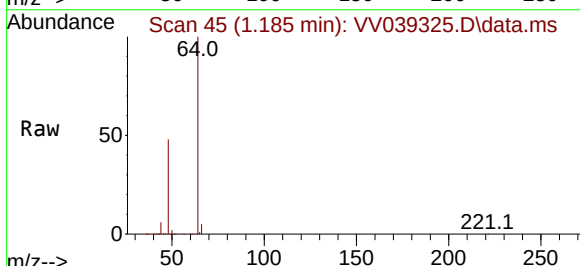
Acq: 04 Nov 2025 19:17

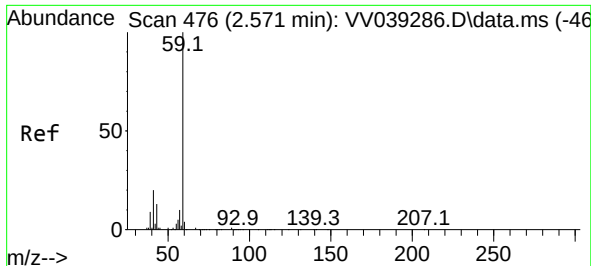
Tgt Ion: 50 Resp: 7572

Ion Ratio Lower Upper

50 100

52 3.0 26.6 39.8#

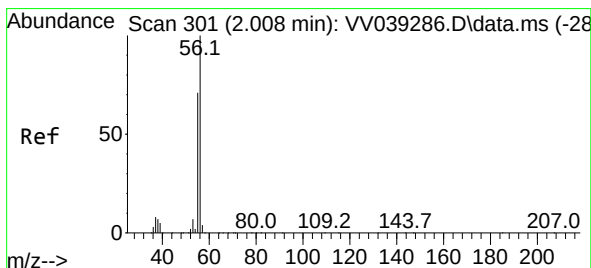
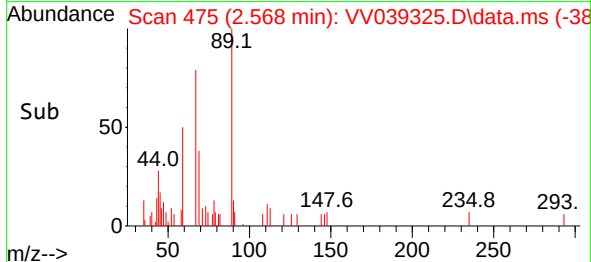
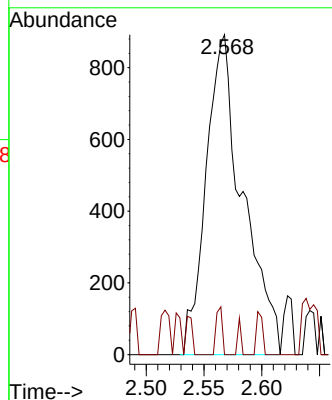
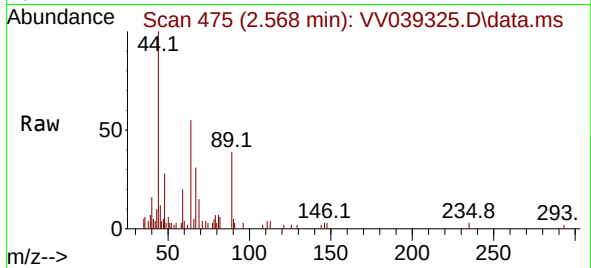




#11
Tert butyl alcohol
Concen: 1.231 ug/l
RT: 2.568 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

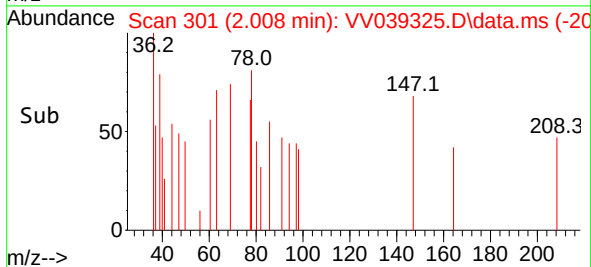
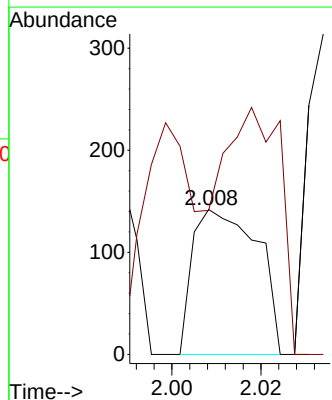
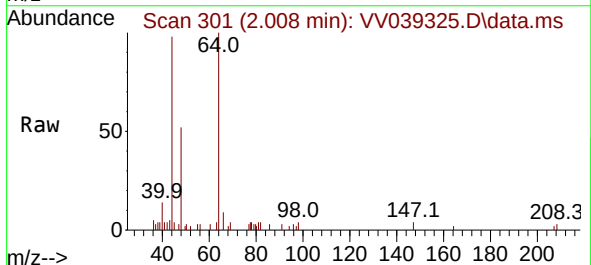
Instrument :
MSVOA_V
ClientSampleId :

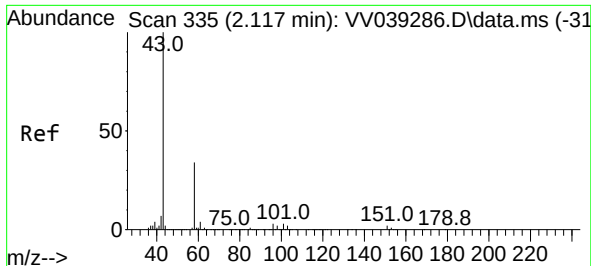
Tgt Ion: 59 Resp: 1975
Ion Ratio Lower Upper
59 100
57 2.4 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.008 min Scan# 301
Delta R.T. 0.000 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Tgt Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 118.2 56.2 84.4#

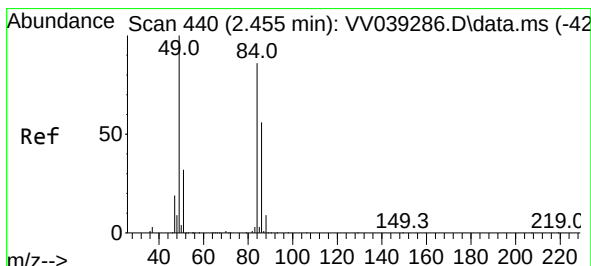
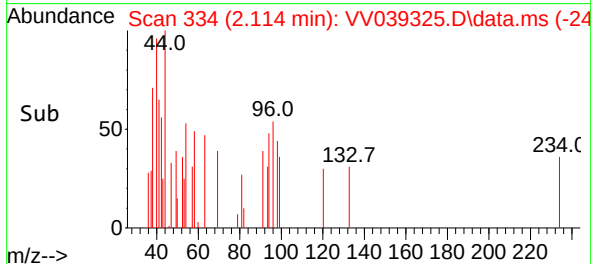
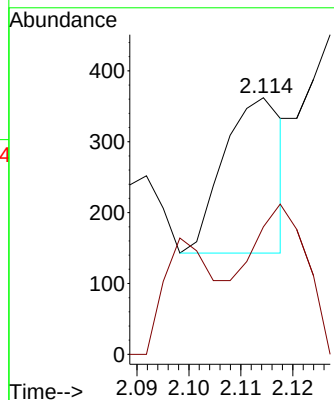
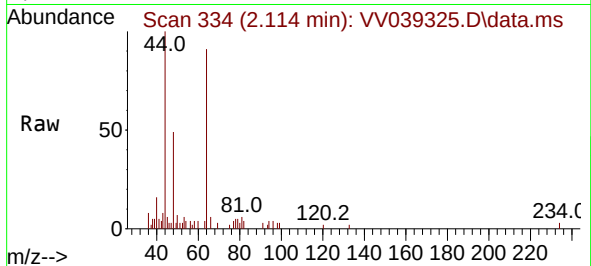




#16
Acetone
Concen: Below Cal
RT: 2.114 min Scan# 31
Delta R.T. -0.003 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

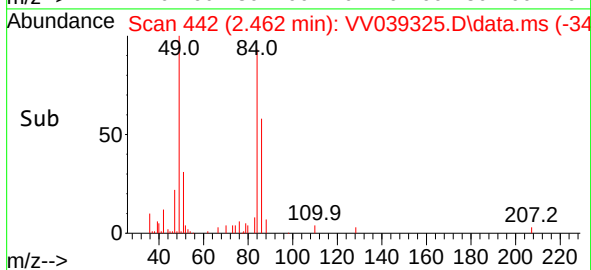
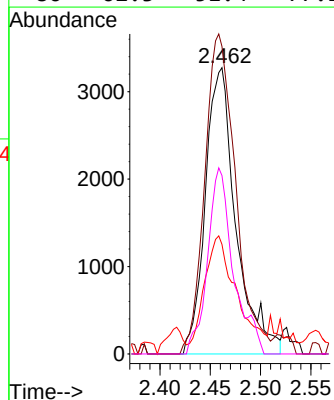
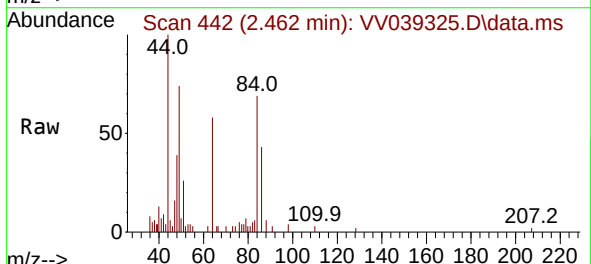
Instrument :
MSVOA_V
ClientSampleId :

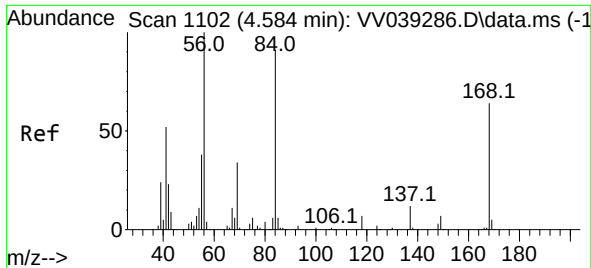
Tgt Ion: 43 Resp: 172
Ion Ratio Lower Upper
43 100
58 7.3 27.5 41.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.462 min Scan# 442
Delta R.T. 0.007 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Tgt Ion: 84 Resp: 6953
Ion Ratio Lower Upper
84 100
49 107.4 92.6 139.0
51 30.6 29.6 44.4
86 62.3 51.4 77.2

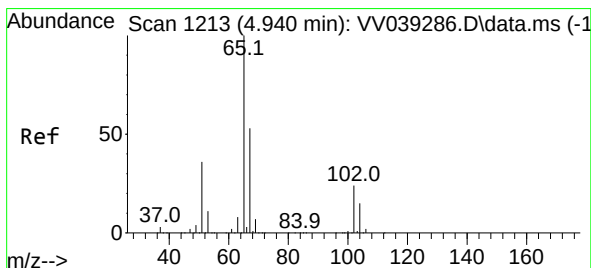
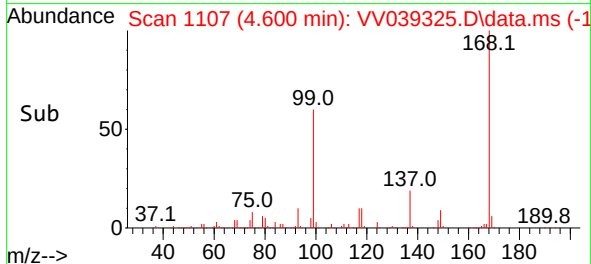
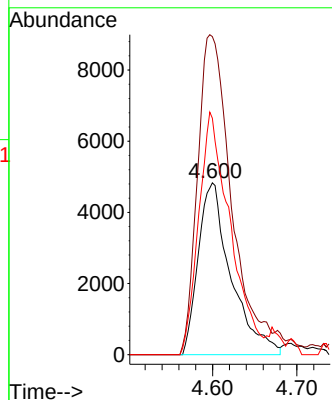
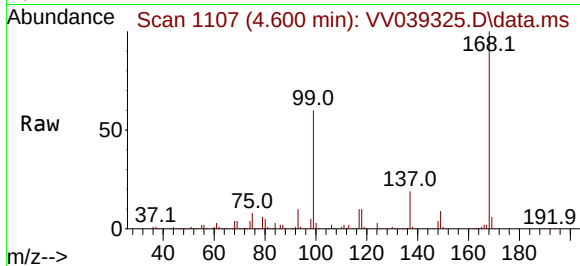




#31
Cyclohexane
Concen: 1.199 ug/l
RT: 4.600 min Scan# 1102
Delta R.T. 0.016 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

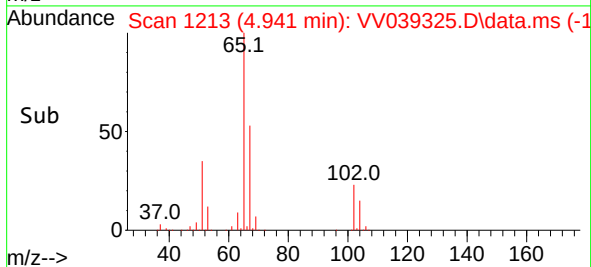
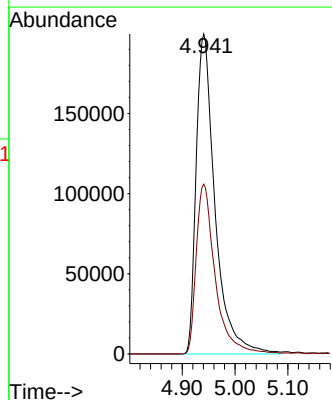
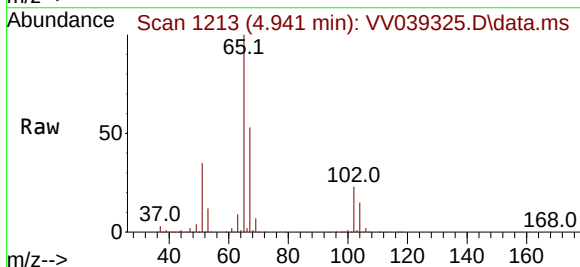
Instrument :
MSVOA_V
ClientSampleId :

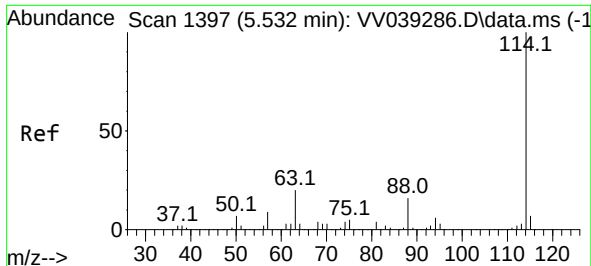
Tgt Ion: 56 Resp: 13076
Ion Ratio Lower Upper
56 100
69 185.0 27.4 41.0#
84 137.5 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 59.822 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.000 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Tgt Ion: 65 Resp: 495169
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# 1

Delta R.T. 0.000 min

Lab File: VV039325.D

Acq: 04 Nov 2025 19:17

Instrument :

MSVOA_V

ClientSampleId :

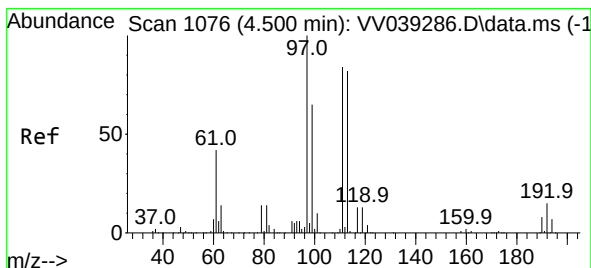
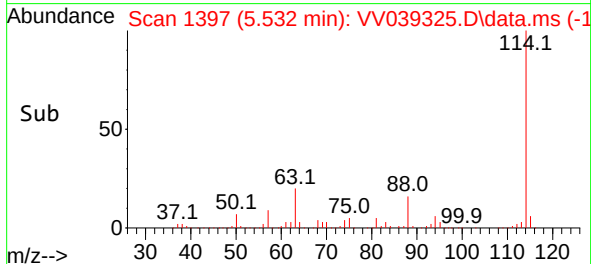
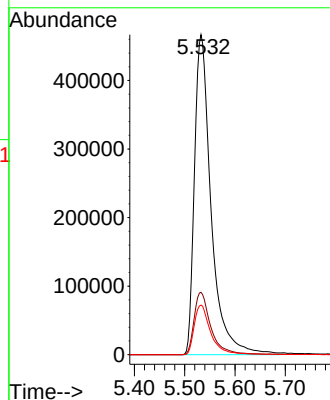
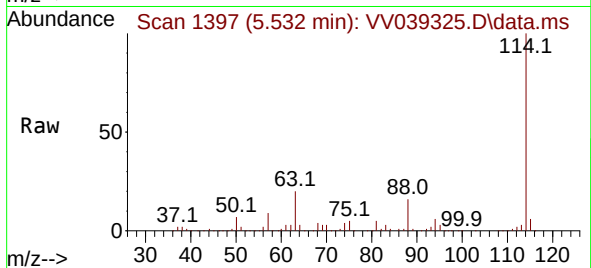
Tgt Ion:114 Resp: 1074765

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 15.5 0.0 31.6



#35

Dibromofluoromethane

Concen: 51.464 ug/l

RT: 4.500 min Scan# 1076

Delta R.T. 0.000 min

Lab File: VV039325.D

Acq: 04 Nov 2025 19:17

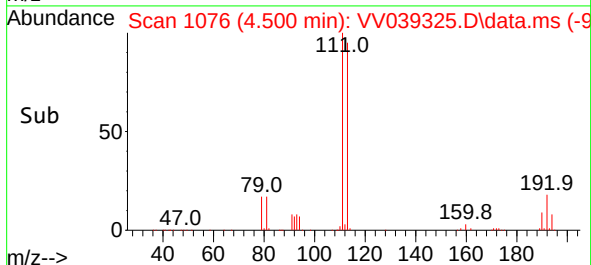
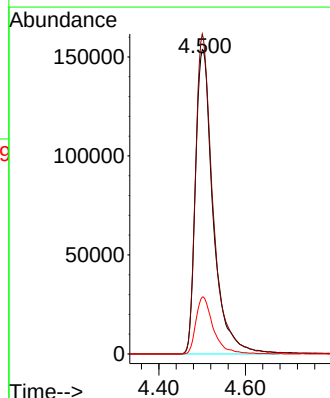
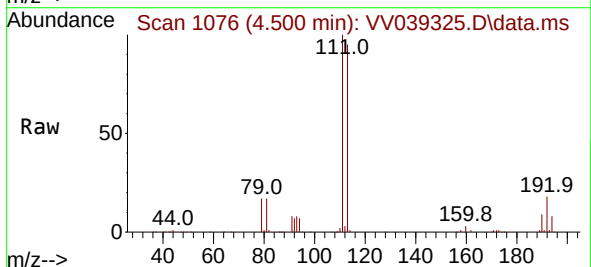
Tgt Ion:113 Resp: 435815

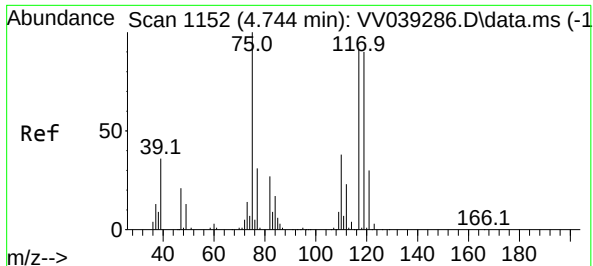
Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

192 18.2 14.3 21.5

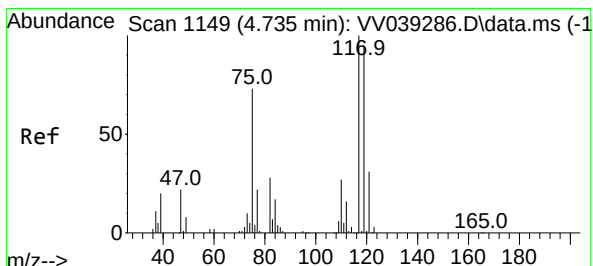
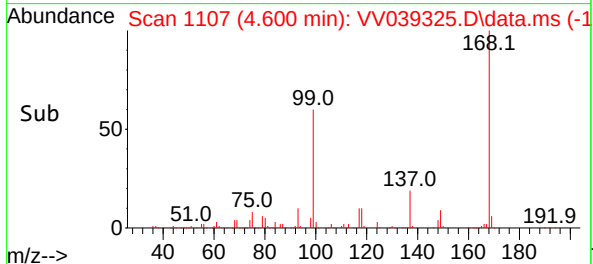
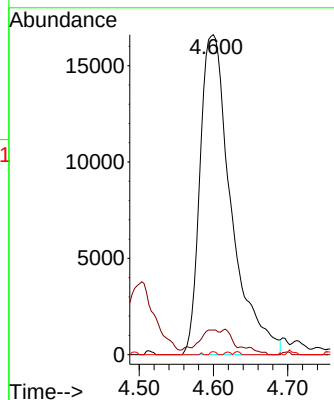
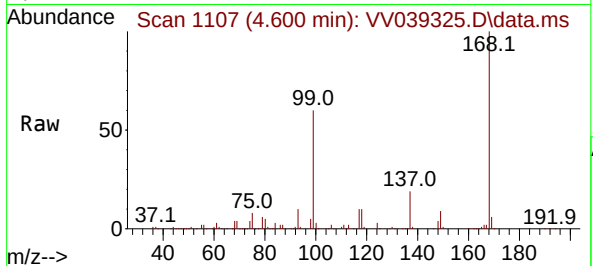




#36
 1,1-Dichloropropene
 Concen: 4.545 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.145 min
 Lab File: VV039325.D
 Acq: 04 Nov 2025 19:17

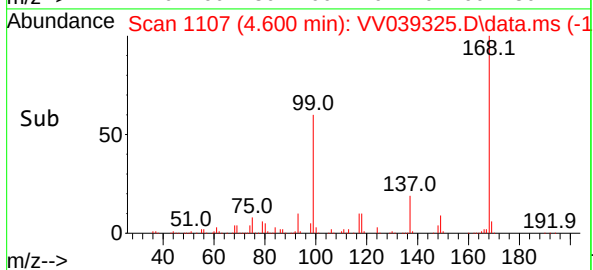
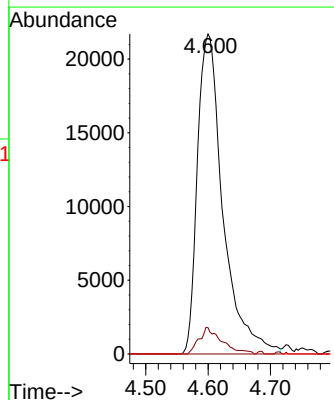
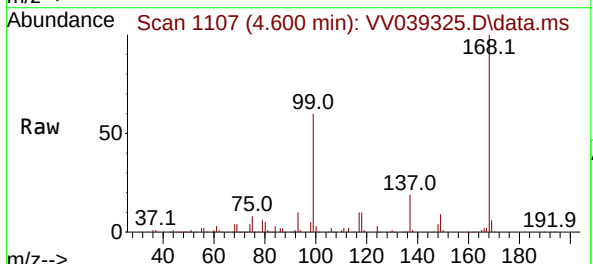
Instrument :
 MSVOA_V
 ClientSampleId :

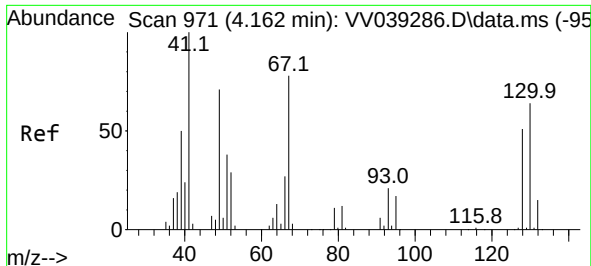
Tgt Ion: 75 Resp: 48337
 Ion Ratio Lower Upper
 75 100
 110 3.2 18.9 56.7#
 77 0.2 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 4.762 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.135 min
 Lab File: VV039325.D
 Acq: 04 Nov 2025 19:17

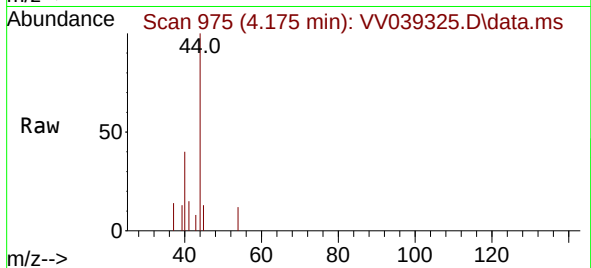
Tgt Ion: 117 Resp: 61714
 Ion Ratio Lower Upper
 117 100
 119 8.2 75.9 113.9#
 121 0.0 24.6 37.0#



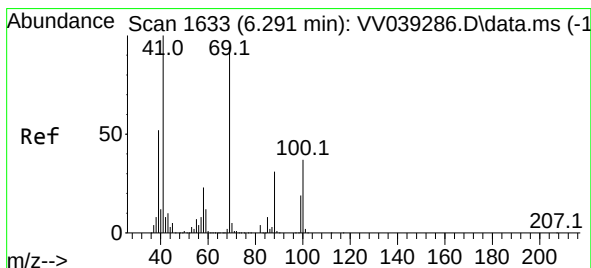
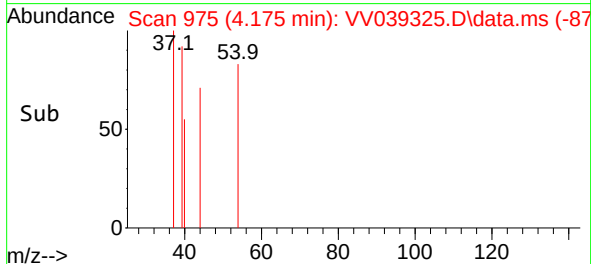
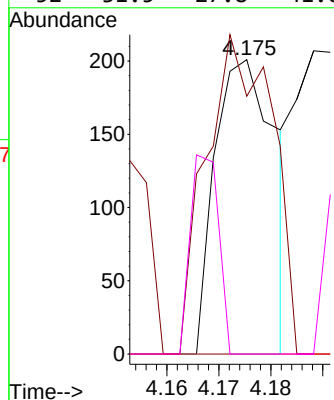


#41
Methacrylonitrile
Concen: 1.721 ug/l
RT: 4.175 min Scan# 91
Delta R.T. 0.013 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :

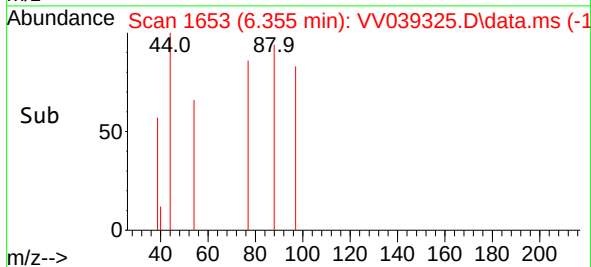
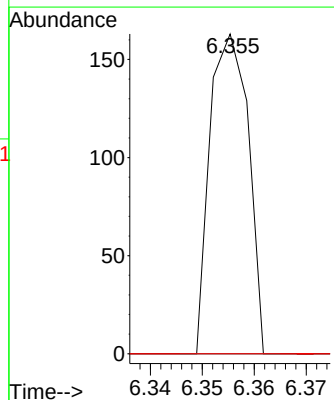
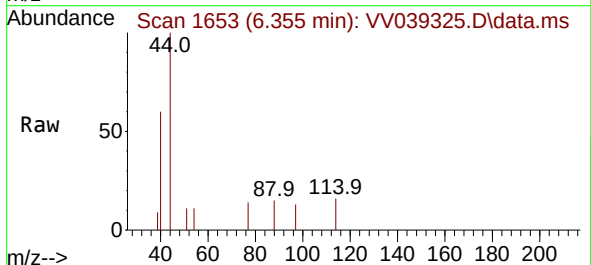


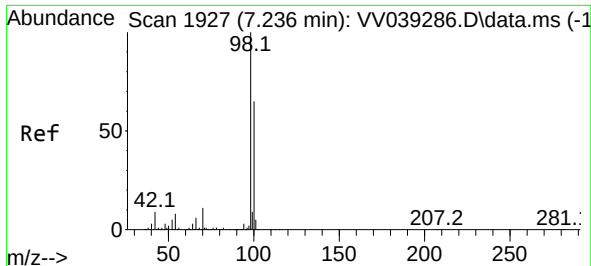
Tgt Ion:	41	Resp:	162
Ion	Ratio	Lower	Upper
41	100		
39	118.5	40.9	61.3#
67	0.0	73.1	109.7#
52	31.5	27.8	41.6



#49
1,4-Dioxane
Concen: 0.669 ug/l
RT: 6.355 min Scan# 1653
Delta R.T. 0.064 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Tgt Ion:	88	Resp:	84
Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.1	36.1#
58	0.0	57.6	86.4#

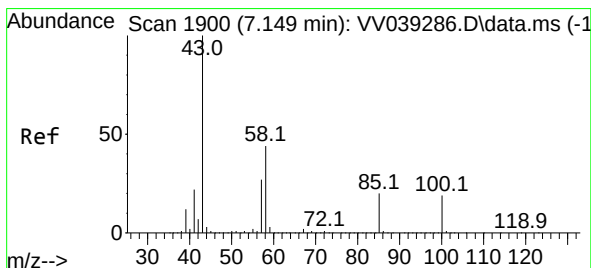
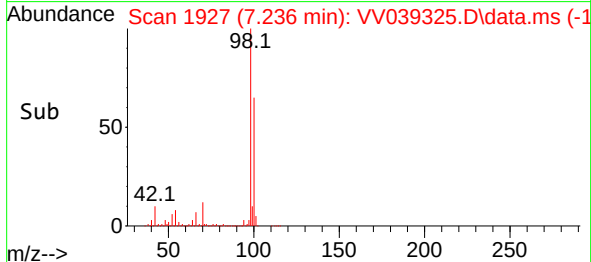
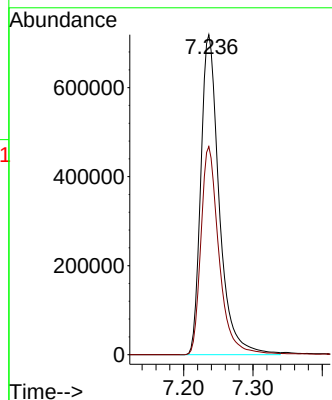
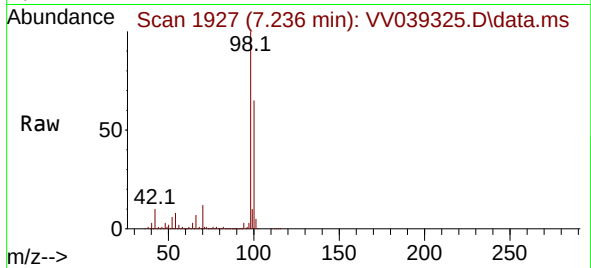




#50
Toluene-d8
Concen: 46.049 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

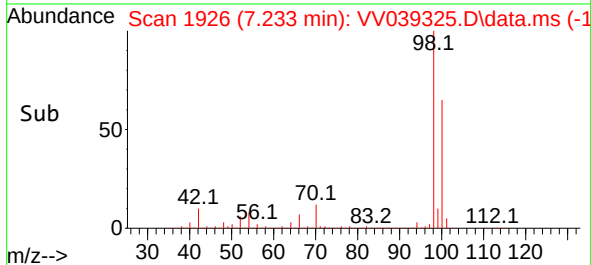
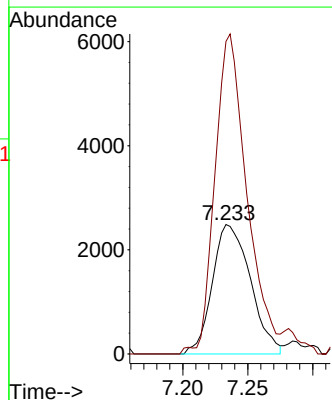
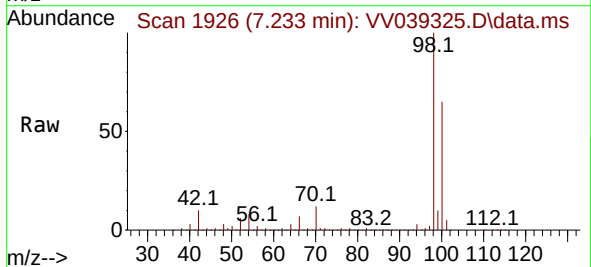
Instrument :
MSVOA_V
ClientSampleId :

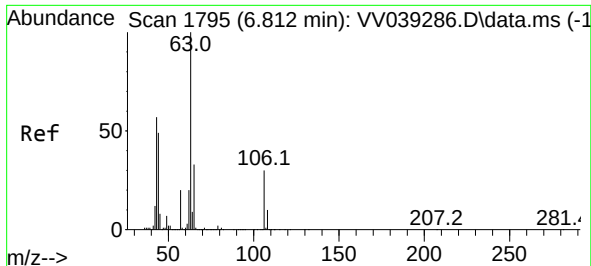
Tgt Ion: 98 Resp: 1326623
Ion Ratio Lower Upper
98 100
100 64.2 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.447 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.084 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Tgt Ion: 43 Resp: 5057
Ion Ratio Lower Upper
43 100
58 208.0 34.2 51.4#

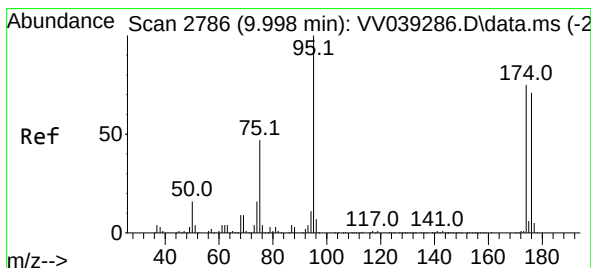
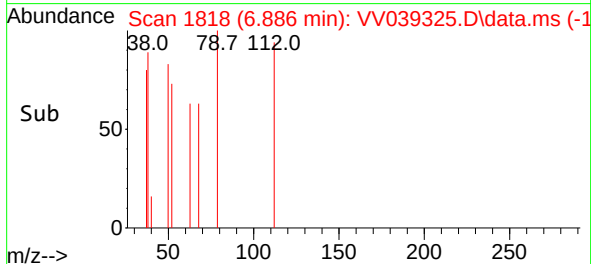
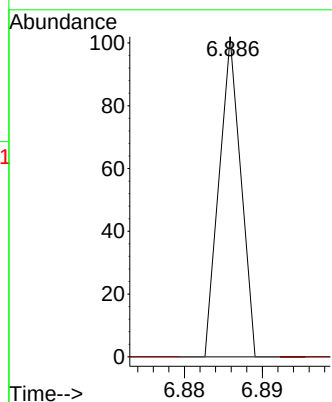
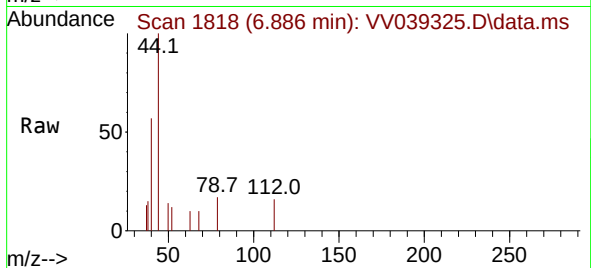




#58
2-Chloroethyl Vinyl ether
Concen: 8.471 ug/l
RT: 6.886 min Scan# 1818
Delta R.T. 0.074 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

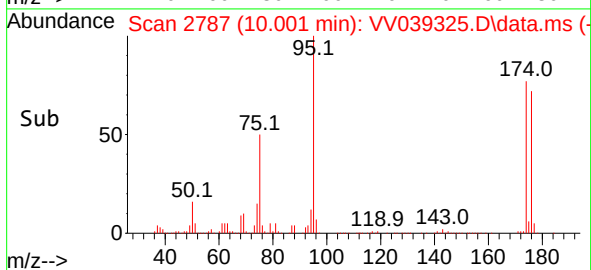
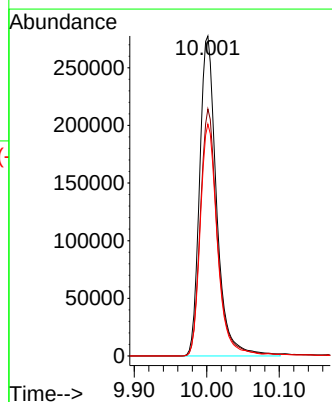
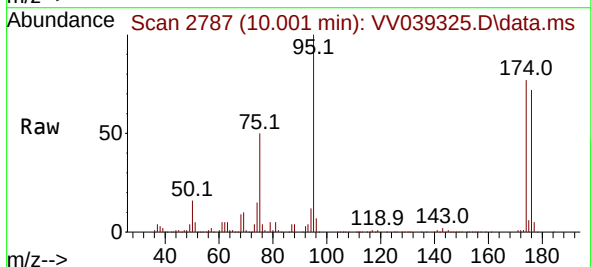
Instrument :
MSVOA_V
ClientSampleId :

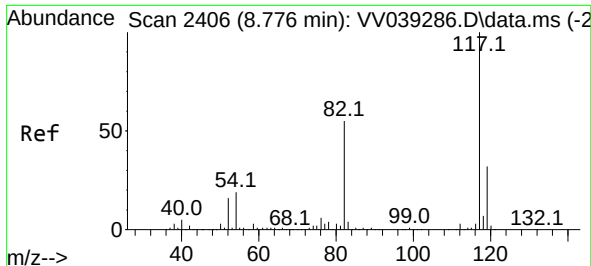
Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 43.934 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

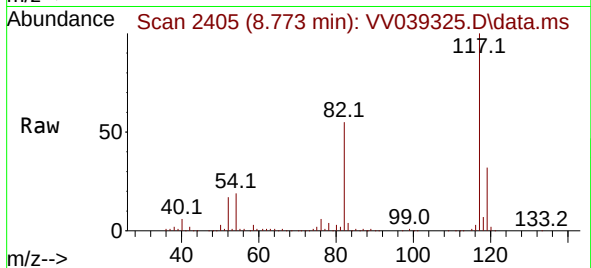
Tgt Ion: 95 Resp: 450761
Ion Ratio Lower Upper
95 100
174 77.6 0.0 153.6
176 73.3 0.0 146.0



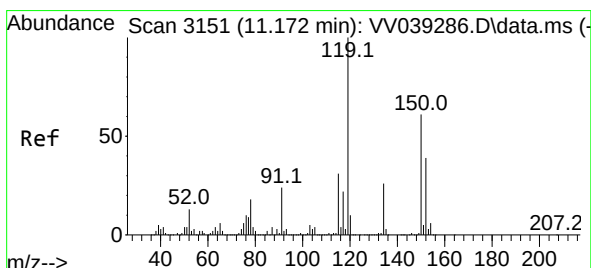
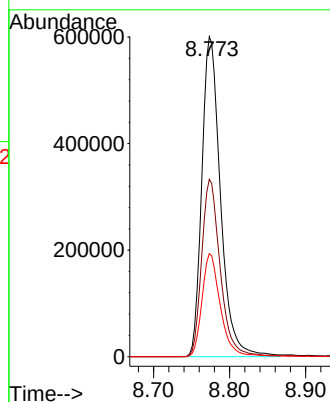
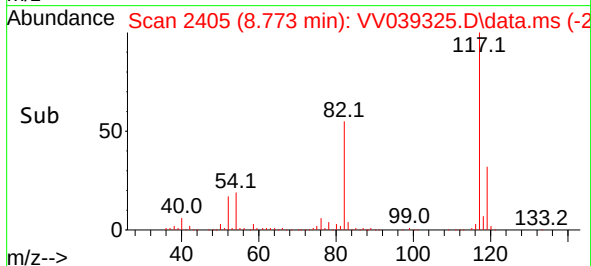


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2406
Delta R.T. -0.003 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :

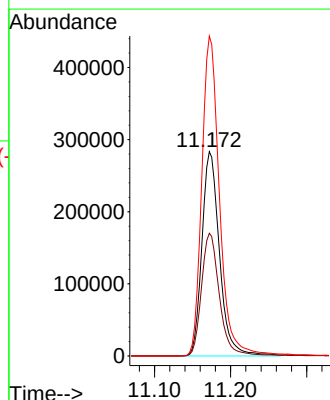
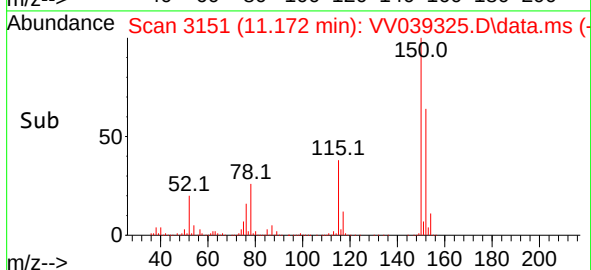
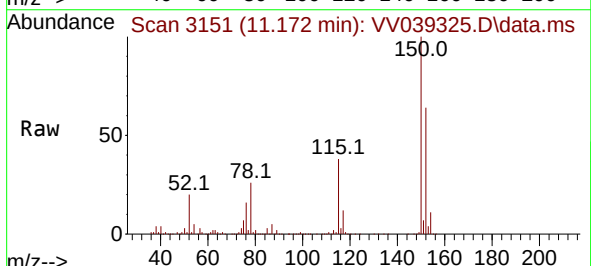


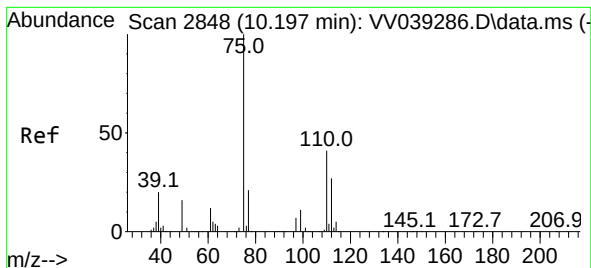
Tgt Ion:117 Resp: 1027374
Ion Ratio Lower Upper
117 100
82 55.4 43.8 65.8
119 32.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VV039325.D
Acq: 04 Nov 2025 19:17

Tgt Ion:152 Resp: 455789
Ion Ratio Lower Upper
152 100
115 61.2 42.3 126.8
150 158.1 0.0 348.0





#76

1,2,3-Trichloropropane

Concen: 24.314 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.196 min

Lab File: VV039325.D

Acq: 04 Nov 2025 19:17

Instrument :

MSVOA_V

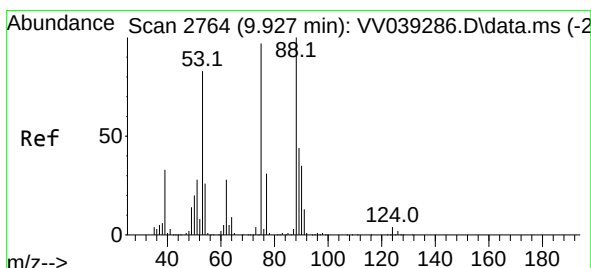
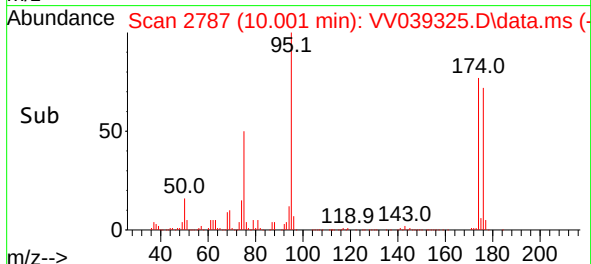
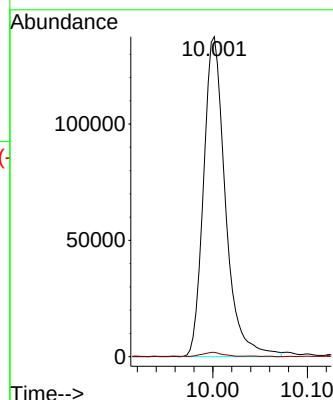
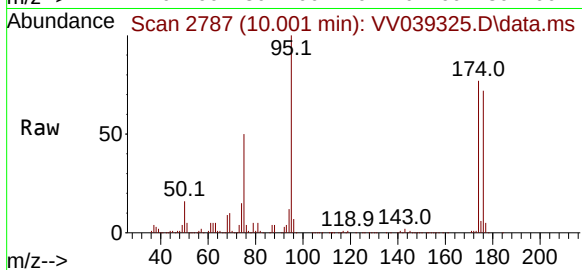
ClientSampleId :

Tgt Ion: 75 Resp: 221189

Ion Ratio Lower Upper

75 100

77 1.3 12.2 36.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.406 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039325.D

Acq: 04 Nov 2025 19:17

Tgt Ion: 75 Resp: 221189

Ion Ratio Lower Upper

75 100

53 0.3 69.9 104.9#

89 0.0 37.4 56.0#

