

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032625\
 Data File : VY021652.D
 Acq On : 26 Mar 2025 17:21
 Operator : SY/MD
 Sample : Q1636-15
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-4-VOC

Quant Time: Mar 27 01:33:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

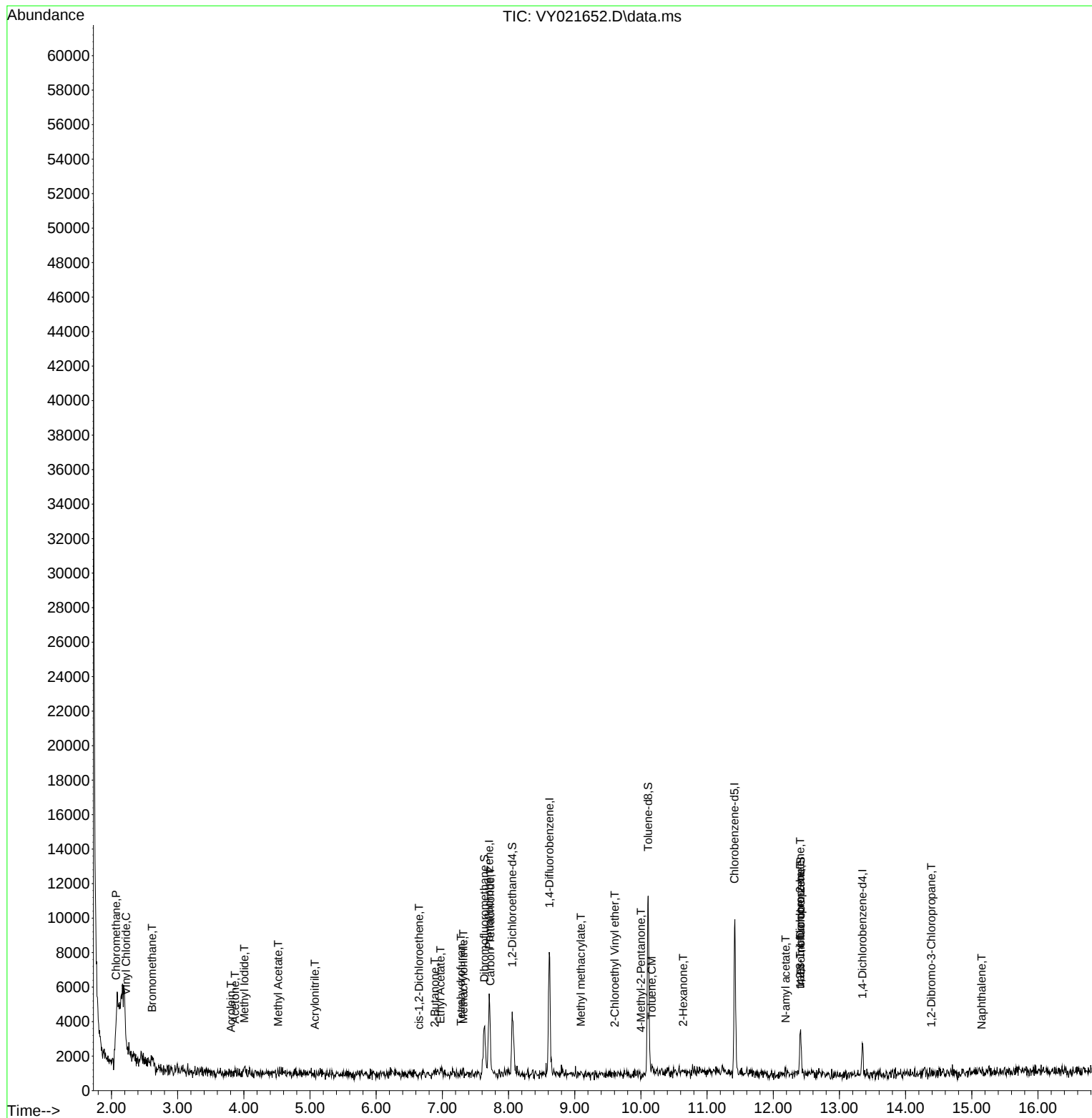
Internal Standards						
1) Pentafluorobenzene	7.707	168	3569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	5710	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	4433	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	581	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	2927	77.594	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 155.180%	
35) Dibromofluoromethane	7.634	113	2153	57.363	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.720%	
50) Toluene-d8	10.109	98	6915	48.659	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.320%	
62) 4-Bromofluorobenzene	12.414	95	1056	21.845	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 43.700%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	256	5.544	ug/l #	66
4) Vinyl Chloride	2.220	62	59	1.169	ug/l #	42
5) Bromomethane	2.611	94	294	8.062	ug/l #	77
10) Methyl Iodide	4.007	142	465	11.376	ug/l #	89
13) Acrolein	3.805	56	19	9.903	ug/l #	10
15) Acrylonitrile	5.074	53	47	5.657	ug/l #	56
16) Acetone	3.866	43	160	19.447	ug/l #	47
18) Methyl Acetate	4.519	43	20	1.096	ug/l #	51
25) 2-Butanone	6.884	43	73	6.414	ug/l #	48
27) cis-1,2-Dichloroethene	6.646	96	67	1.436	ug/l #	1
29) Tetrahydrofuran	7.280	42	19	2.704	ug/l #	33
37) Ethyl Acetate	6.970	43	39	1.502	ug/l #	68
38) Carbon Tetrachloride	7.725	117	153	2.264	ug/l #	12
41) Methacrylonitrile	7.317	41	51	3.607	ug/l #	39
48) Methyl methacrylate	9.091	41	26	1.123	ug/l #	13
51) 4-Methyl-2-Pentanone	9.999	43	43	1.653	ug/l #	36
52) Toluene	10.164	92	251	2.300	ug/l	86
58) 2-Chloroethyl Vinyl ether	9.603	63	40	2.266	ug/l #	47
59) 2-Hexanone	10.640	43	31	1.803	ug/l #	24
74) N-amyl acetate	12.188	43	40	4.024	ug/l #	42
76) 1,2,3-Trichloropropane	12.408	75	610	104.191	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	610	236.858	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.389	75	19	15.705	ug/l #	1
95) Naphthalene	15.151	128	31	3.412	ug/l #	69

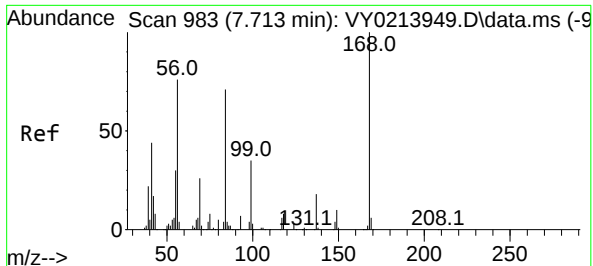
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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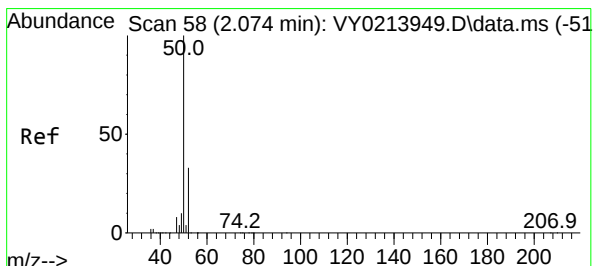
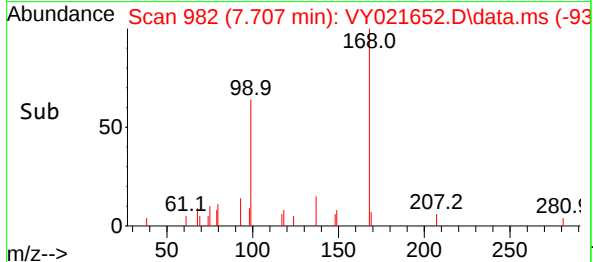
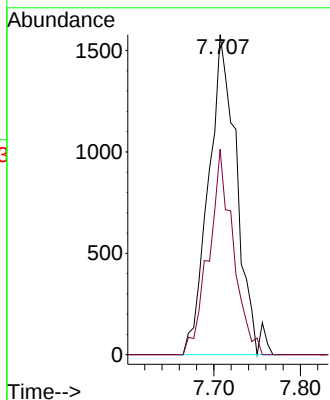
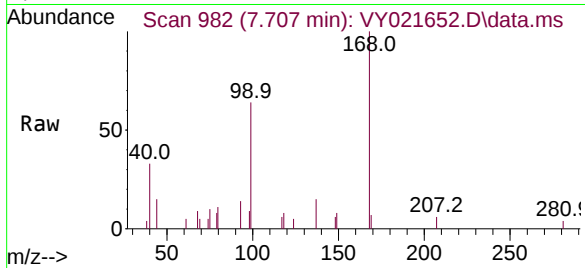




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

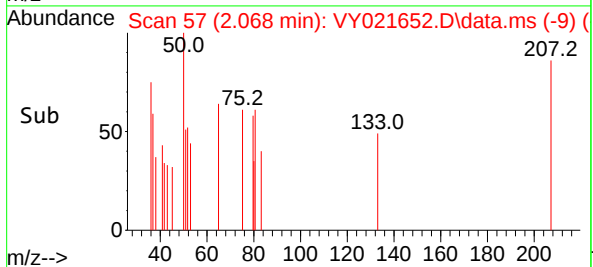
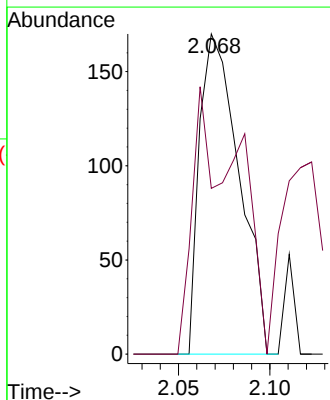
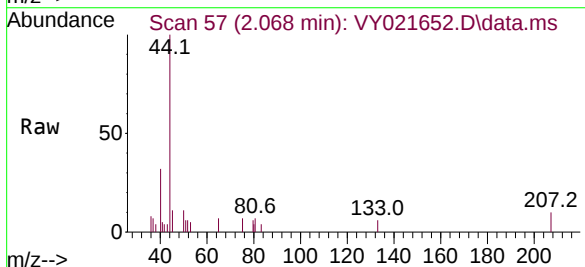
Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

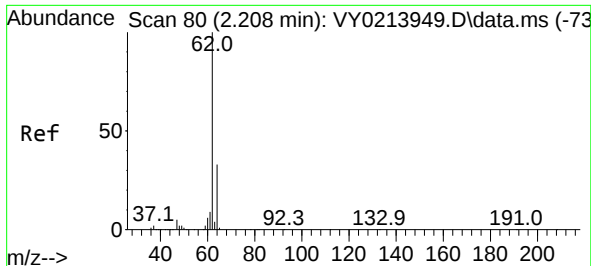
Tgt Ion:168 Resp: 3569
Ion Ratio Lower Upper
168 100
99 64.2 46.0 69.0



#3
Chloromethane
Concen: 5.544 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 50 Resp: 256
Ion Ratio Lower Upper
50 100
52 51.8 26.2 39.2#

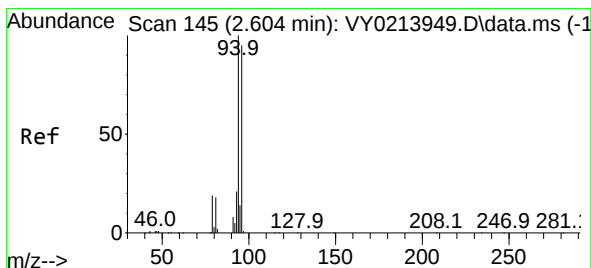
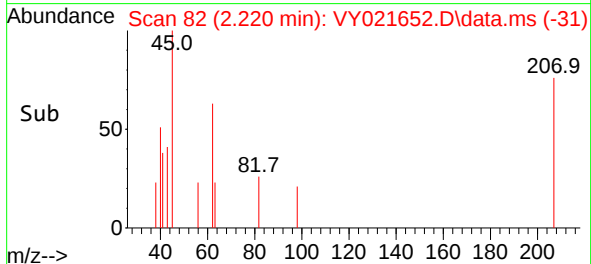
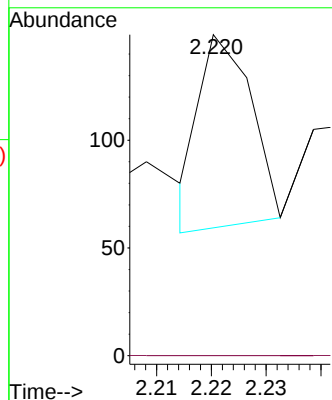
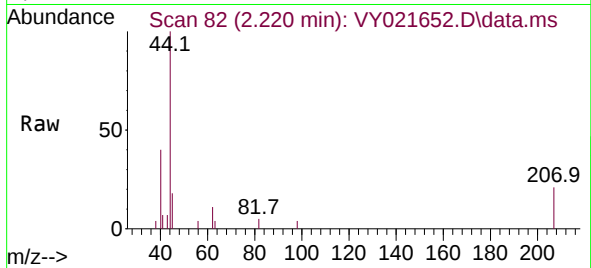




#4
 Vinyl Chloride
 Concen: 1.169 ug/l
 RT: 2.220 min Scan# 81
 Delta R.T. 0.012 min
 Lab File: VY021652.D
 Acq: 26 Mar 2025 17:21

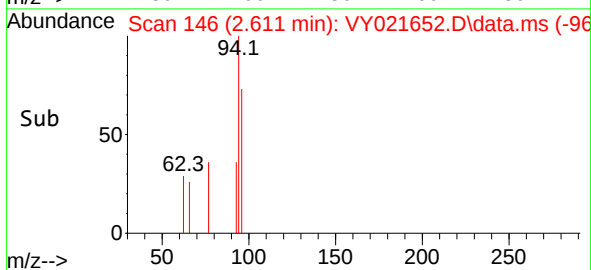
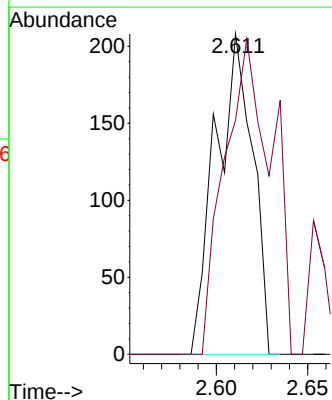
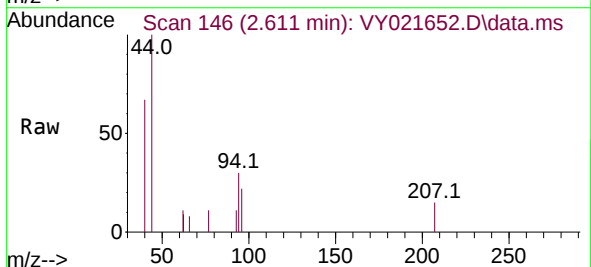
Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-4-VOC

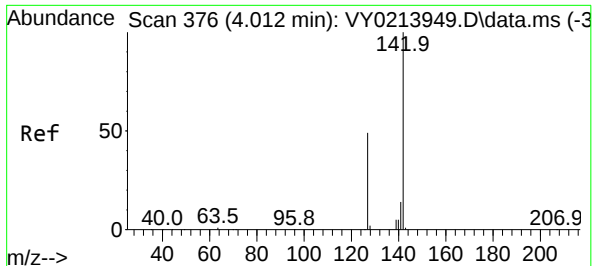
Tgt Ion: 62 Resp: 59
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.2 39.2#



#5
 Bromomethane
 Concen: 8.062 ug/l
 RT: 2.611 min Scan# 146
 Delta R.T. 0.006 min
 Lab File: VY021652.D
 Acq: 26 Mar 2025 17:21

Tgt Ion: 94 Resp: 294
 Ion Ratio Lower Upper
 94 100
 96 73.1 76.3 114.5#

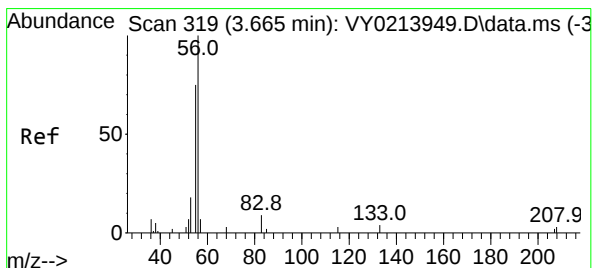
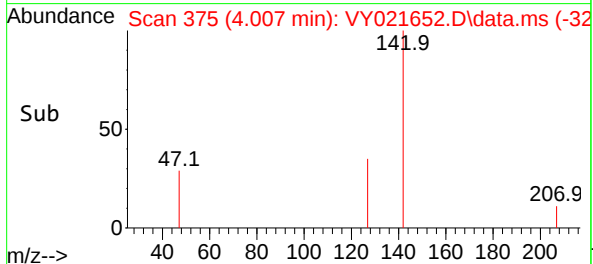
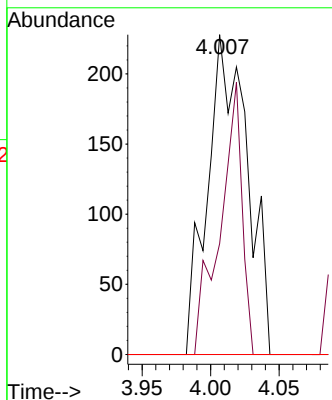
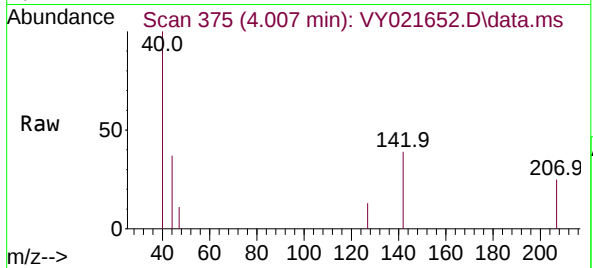




#10
Methyl Iodide
Concen: 11.376 ug/l
RT: 4.007 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

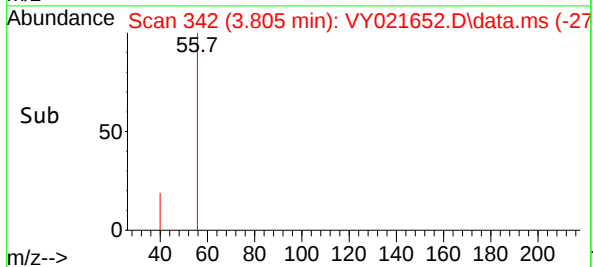
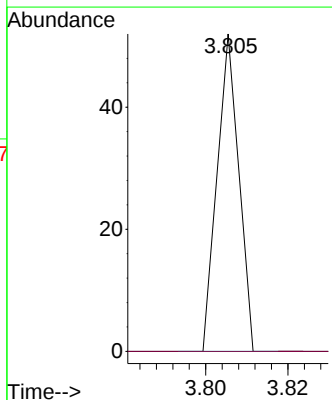
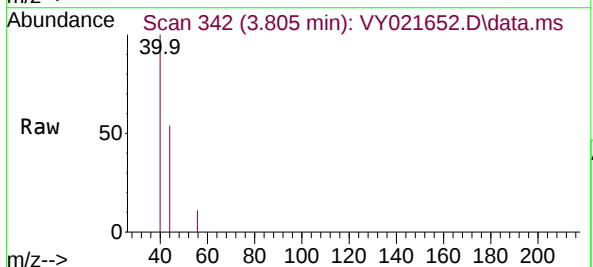
Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

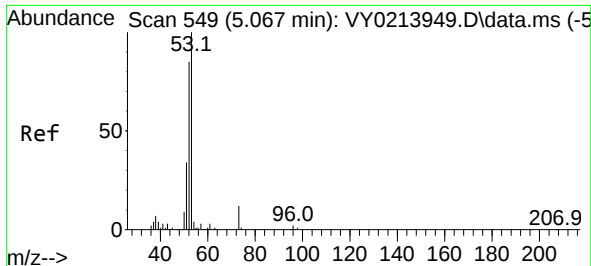
Tgt Ion:142 Resp: 465
Ion Ratio Lower Upper
142 100
127 46.9 39.1 58.7
141 0.0 11.8 17.6#



#13
Acrolein
Concen: 9.903 ug/l
RT: 3.805 min Scan# 342
Delta R.T. 0.140 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#

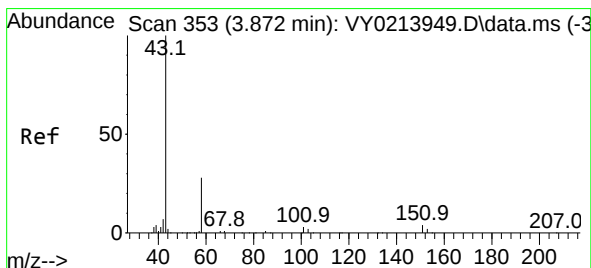
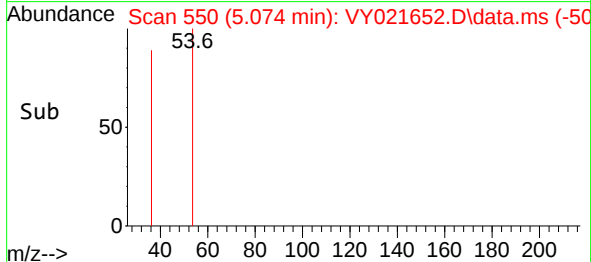
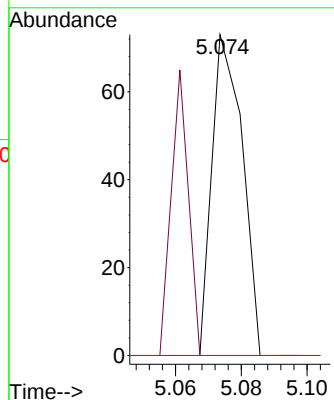
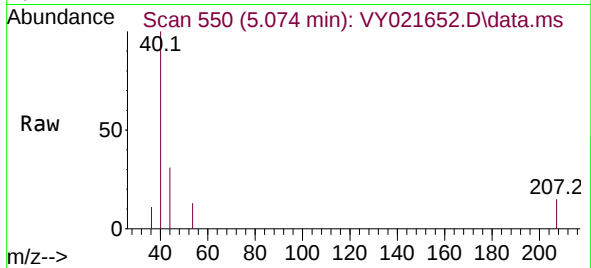




#15
Acrylonitrile
Concen: 5.657 ug/l
RT: 5.074 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

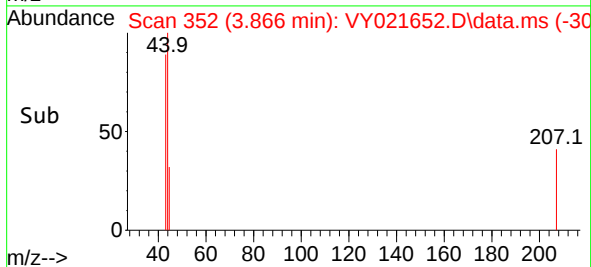
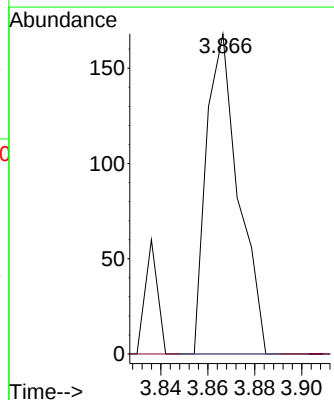
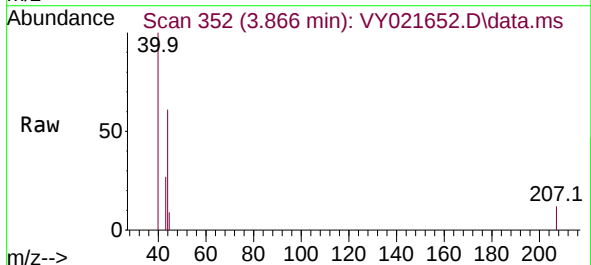
Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

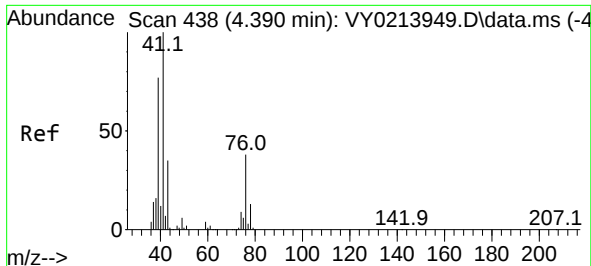
Tgt Ion: 53 Resp: 47
Ion Ratio Lower Upper
53 100
52 51.1 66.3 99.5#
51 0.0 30.3 45.5#



#16
Acetone
Concen: 19.447 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 43 Resp: 160
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#





#18

Methyl Acetate

Concen: 1.096 ug/l

RT: 4.519 min Scan# 4

Delta R.T. 0.128 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

Instrument :

MSVOA_Y

ClientSampleId :

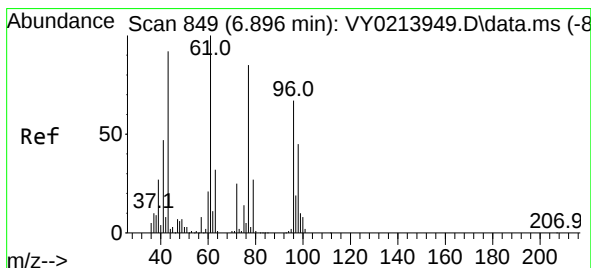
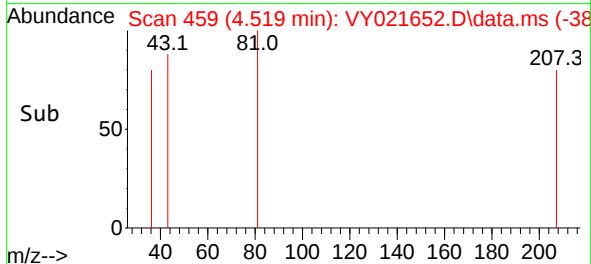
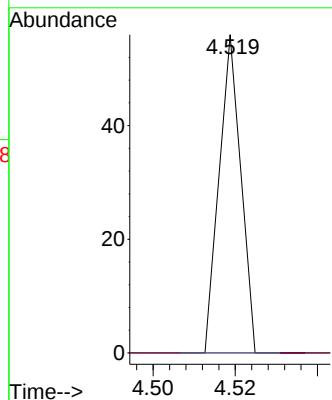
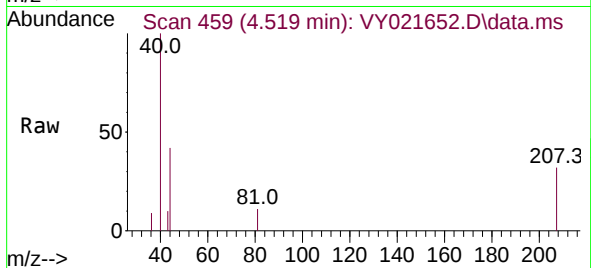
WC-4-VOC

Tgt Ion: 43 Resp: 20

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.0#



#25

2-Butanone

Concen: 6.414 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.012 min

Lab File: VY021652.D

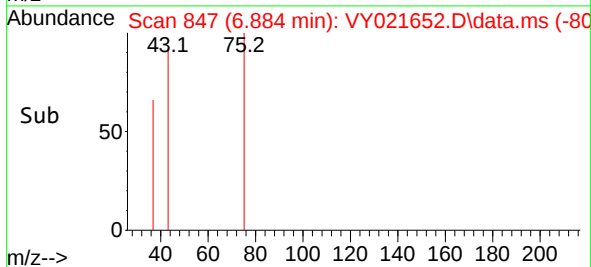
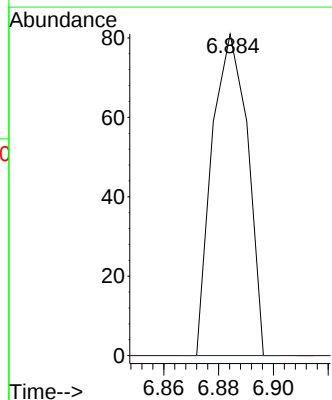
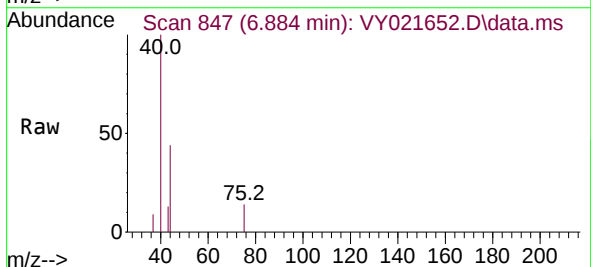
Acq: 26 Mar 2025 17:21

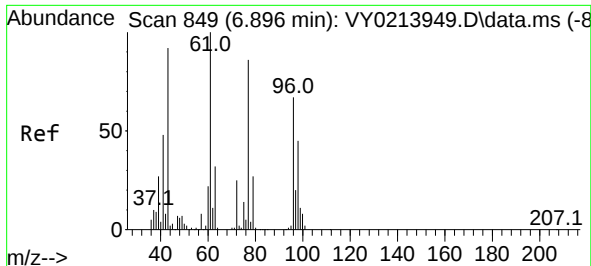
Tgt Ion: 43 Resp: 73

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#

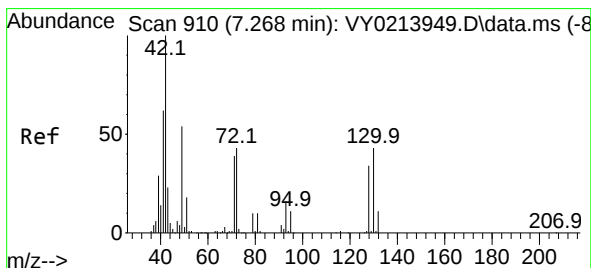
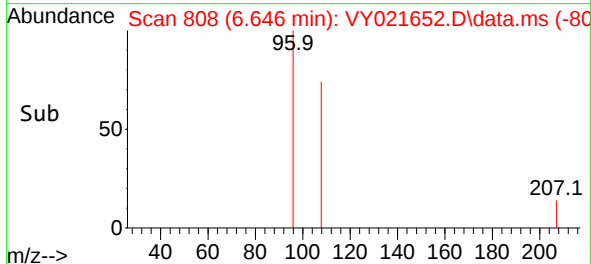
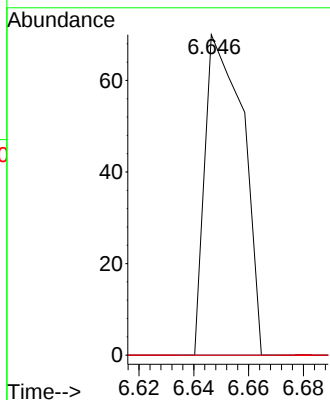
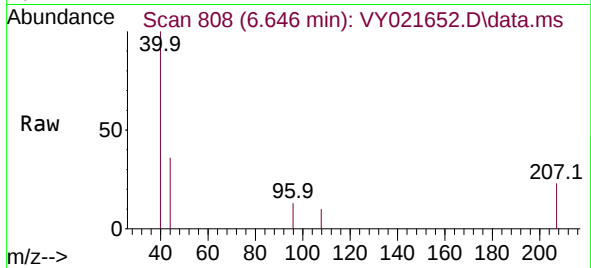




#27
 cis-1,2-Dichloroethene
 Concen: 1.436 ug/l
 RT: 6.646 min Scan# 808
 Delta R.T. -0.250 min
 Lab File: VY021652.D
 Acq: 26 Mar 2025 17:21

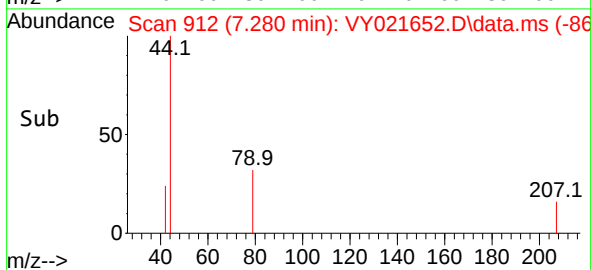
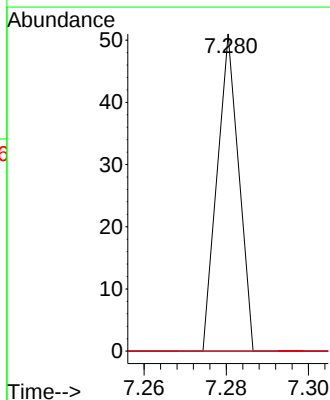
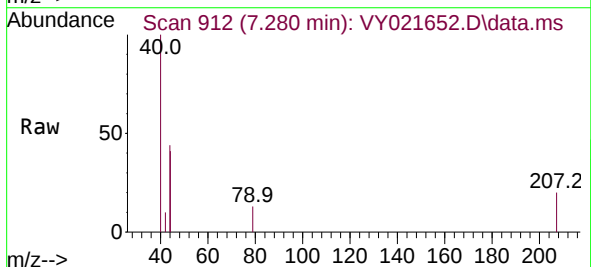
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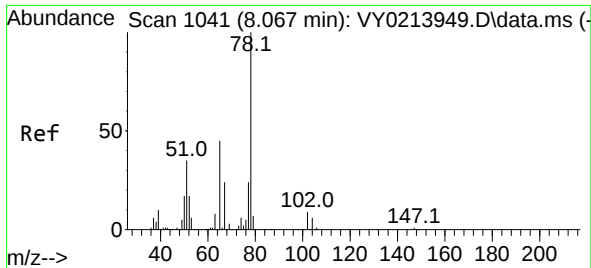
Tgt Ion: 96 Resp: 67
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 300.8
 98 0.0 0.0 130.0



#29
 Tetrahydrofuran
 Concen: 2.704 ug/l
 RT: 7.280 min Scan# 912
 Delta R.T. 0.012 min
 Lab File: VY021652.D
 Acq: 26 Mar 2025 17:21

Tgt Ion: 42 Resp: 19
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.8 52.2#
 71 0.0 32.6 48.8#





#33

1,2-Dichloroethane-d4

Concen: 77.594 ug/l

RT: 8.055 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

Instrument :

MSVOA_Y

ClientSampleId :

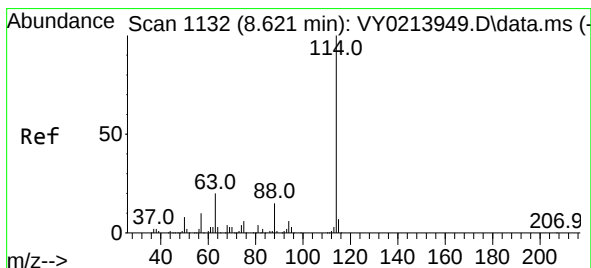
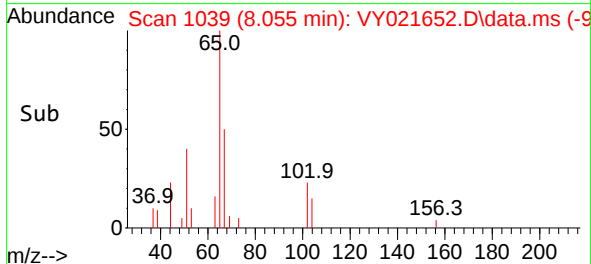
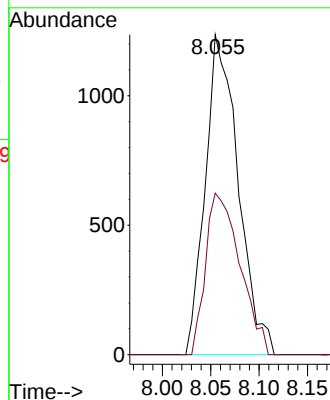
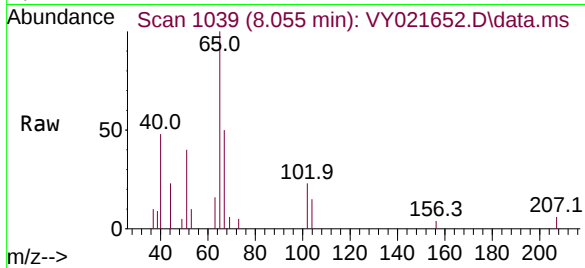
WC-4-VOC

Tgt Ion: 65 Resp: 2927

Ion Ratio Lower Upper

65 100

67 52.7 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

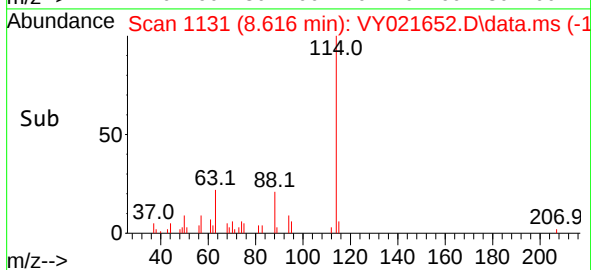
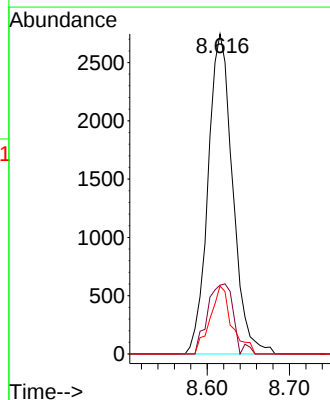
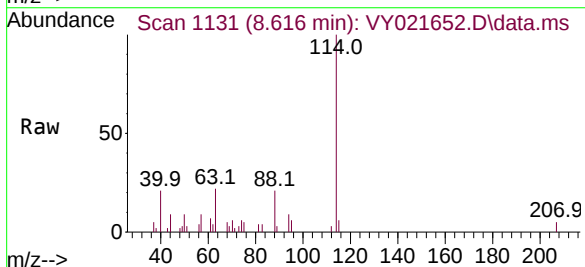
Tgt Ion: 114 Resp: 5710

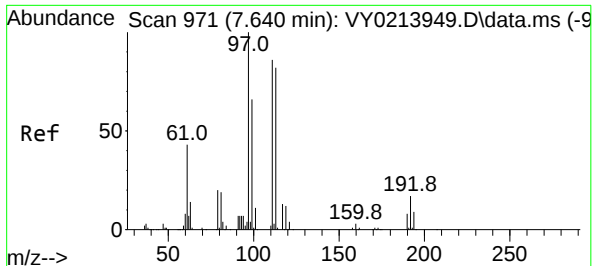
Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.8

88 21.3 0.0 30.8





#35

Dibromofluoromethane

Concen: 57.363 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

Instrument :

MSVOA_Y

ClientSampleId :

WC-4-VOC

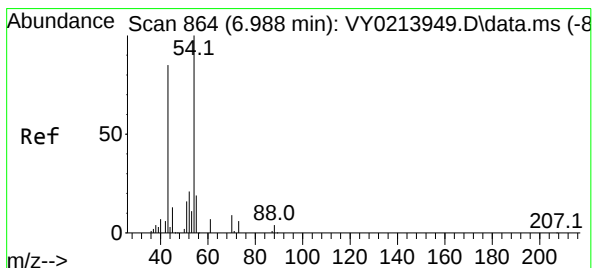
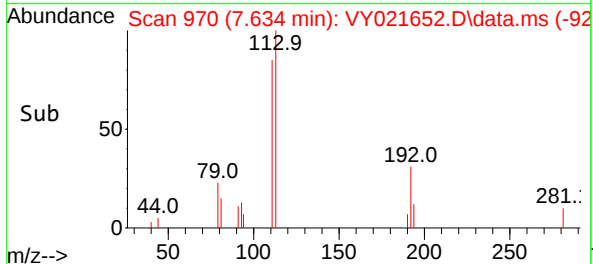
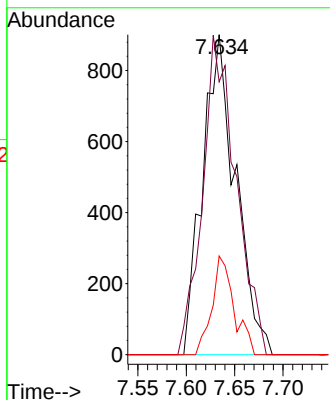
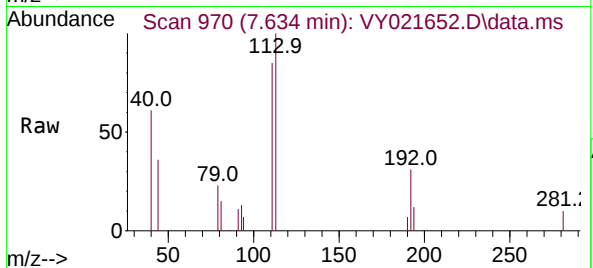
Tgt Ion:113 Resp: 2153

Ion Ratio Lower Upper

113 100

111 100.0 82.0 123.0

192 20.4 15.9 23.9



#37

Ethyl Acetate

Concen: 1.502 ug/l

RT: 6.970 min Scan# 861

Delta R.T. -0.018 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

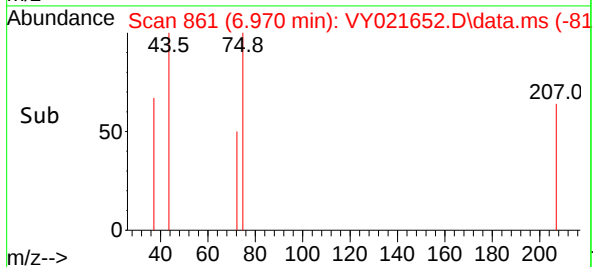
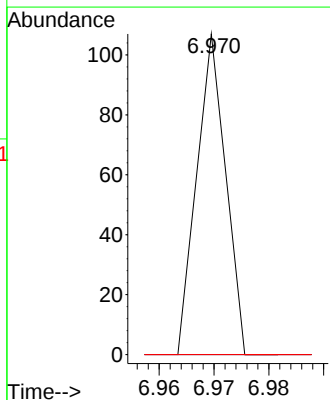
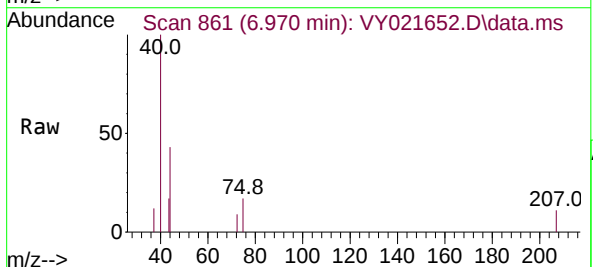
Tgt Ion: 43 Resp: 39

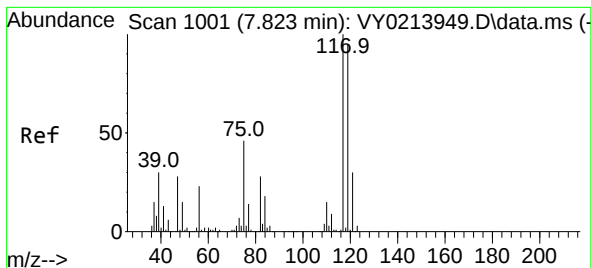
Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: 2.264 ug/l

RT: 7.725 min Scan# 918

Delta R.T. -0.097 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

Instrument :

MSVOA_Y

ClientSampleId :

WC-4-VOC

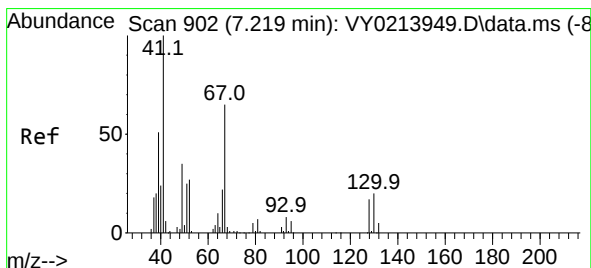
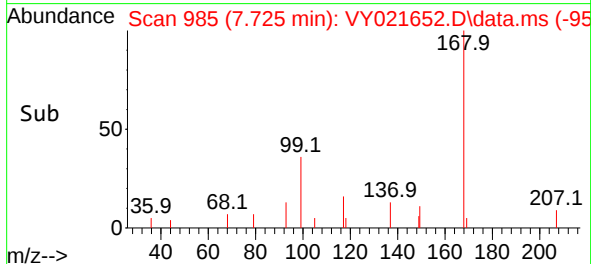
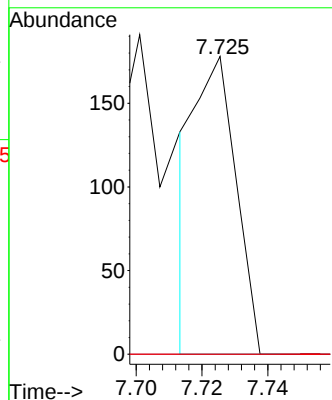
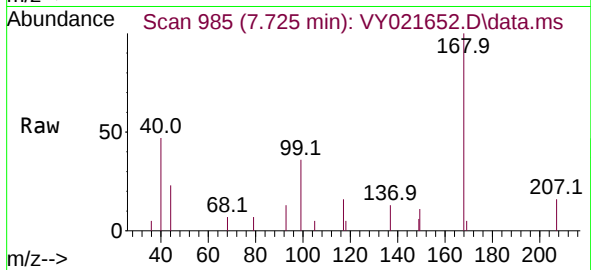
Tgt Ion:117 Resp: 153

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#



#41

Methacrylonitrile

Concen: 3.607 ug/l

RT: 7.317 min Scan# 918

Delta R.T. 0.098 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

Tgt Ion: 41 Resp: 51

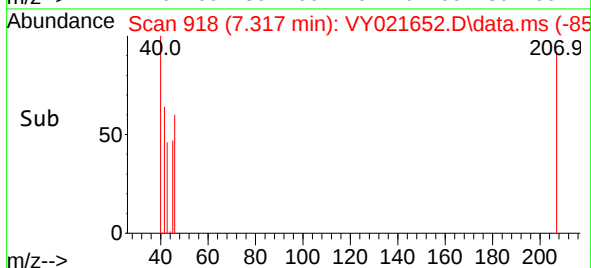
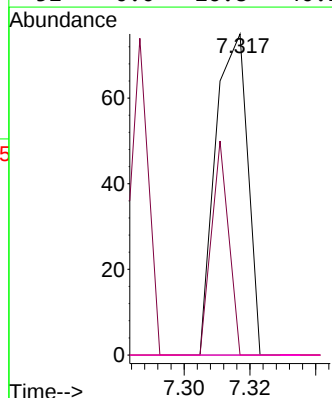
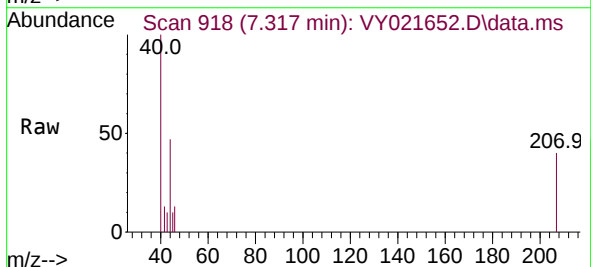
Ion Ratio Lower Upper

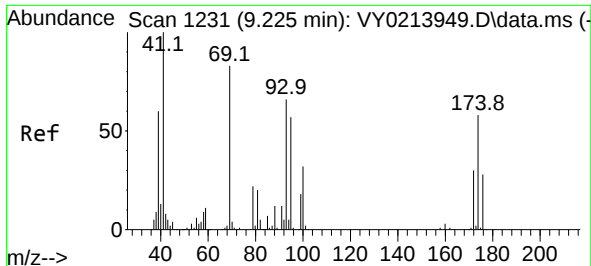
41 100

39 35.3 35.0 52.6

67 0.0 61.2 91.8#

52 0.0 26.8 40.2#





#48

Methyl methacrylate

Concen: 1.123 ug/l

RT: 9.091 min Scan# 1209

Delta R.T. -0.134 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

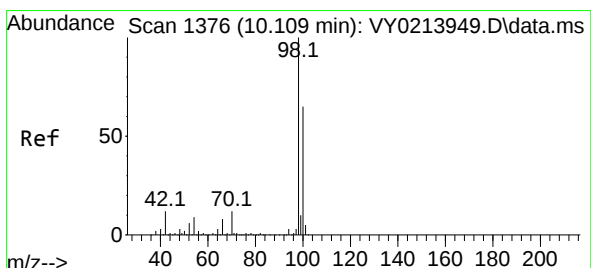
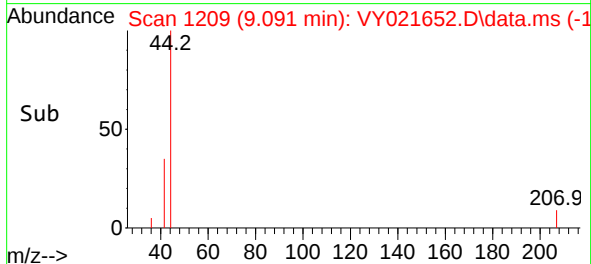
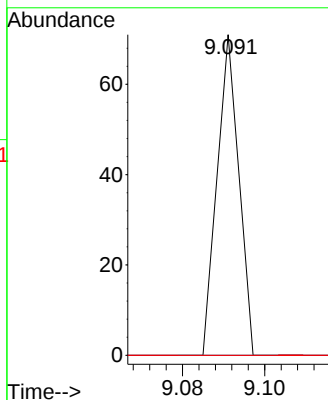
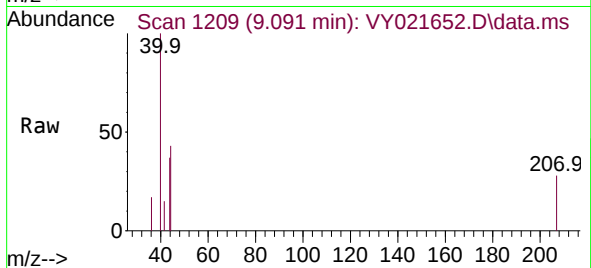
Instrument :

MSVOA_Y

ClientSampleId :

WC-4-VOC

Tgt Ion: 41	Resp: 26
Ion Ratio	Lower Upper
41	100
69	0.0 67.8 101.8#
39	0.0 46.4 69.6#



#50

Toluene-d8

Concen: 48.659 ug/l

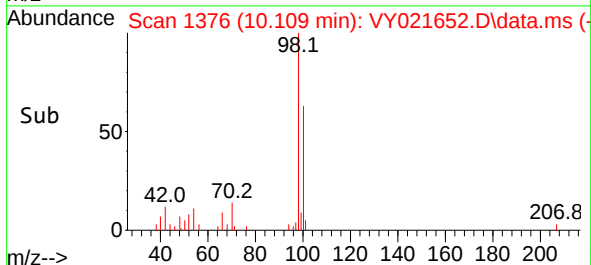
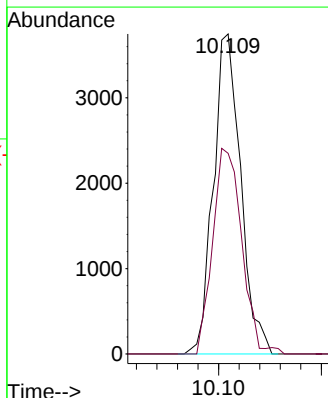
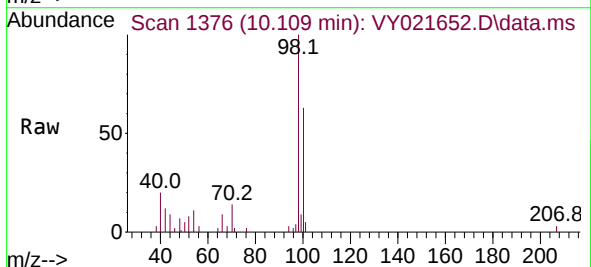
RT: 10.109 min Scan# 1376

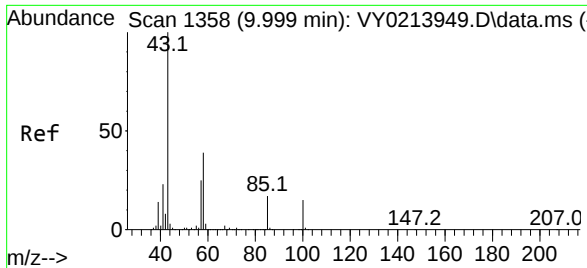
Delta R.T. 0.000 min

Lab File: VY021652.D

Acq: 26 Mar 2025 17:21

Tgt Ion: 98	Resp: 6915
Ion Ratio	Lower Upper
98	100
100	68.2 52.1 78.1

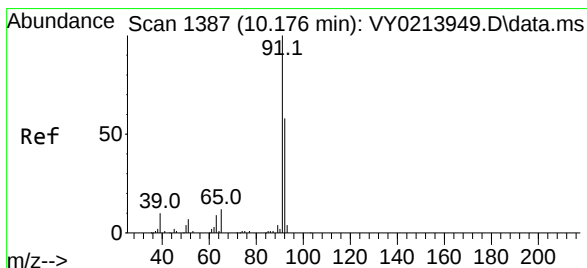
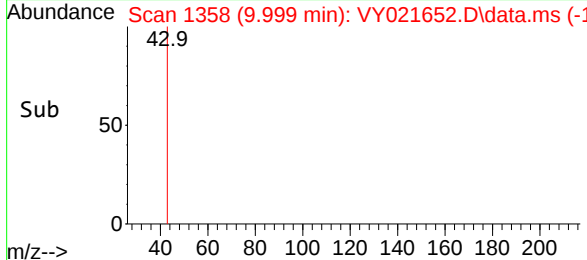
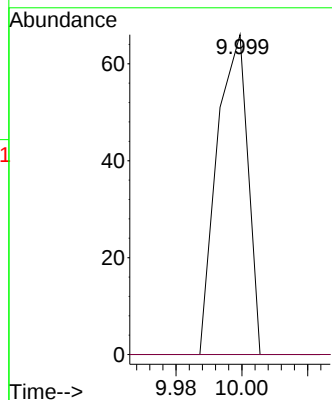
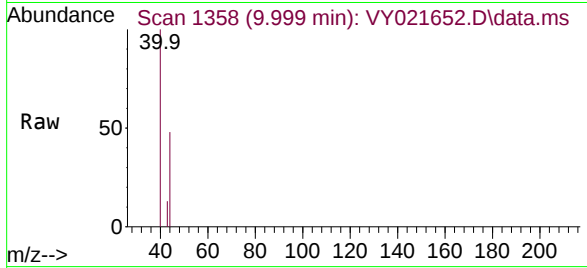




#51
4-Methyl-2-Pentanone
Concen: 1.653 ug/l
RT: 9.999 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

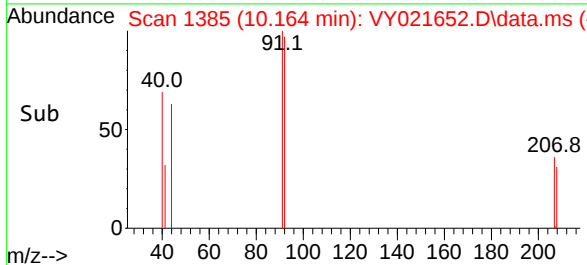
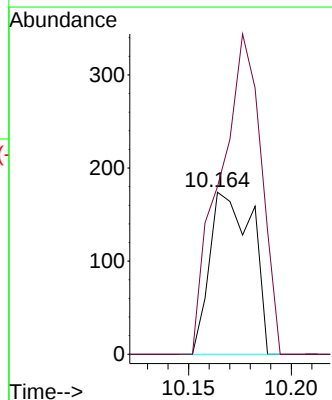
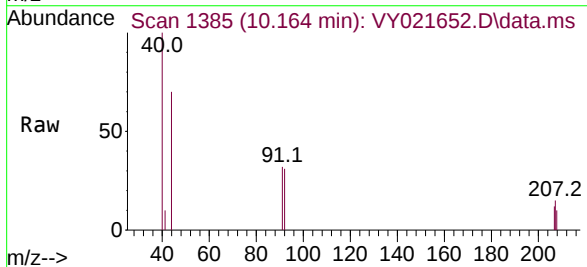
Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

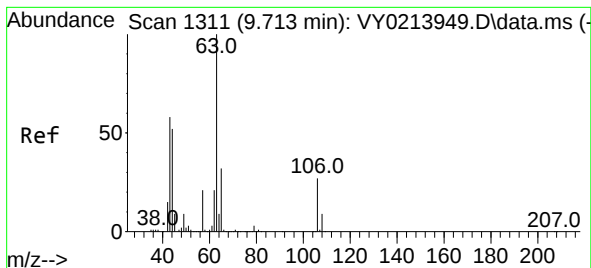
Tgt Ion: 43 Resp: 43
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#



#52
Toluene
Concen: 2.300 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.012 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 92 Resp: 251
Ion Ratio Lower Upper
92 100
91 191.6 138.2 207.2

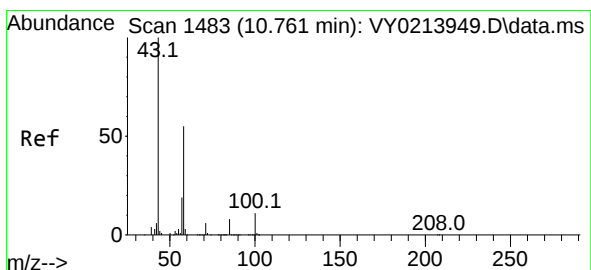
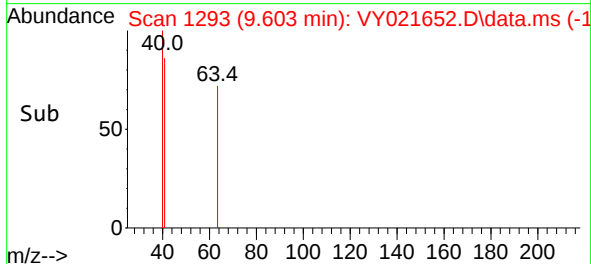
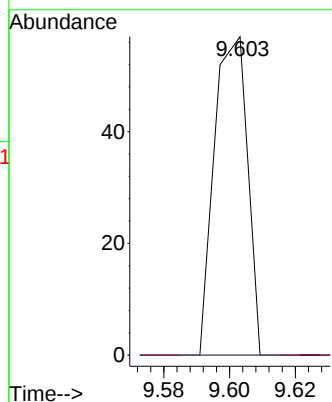
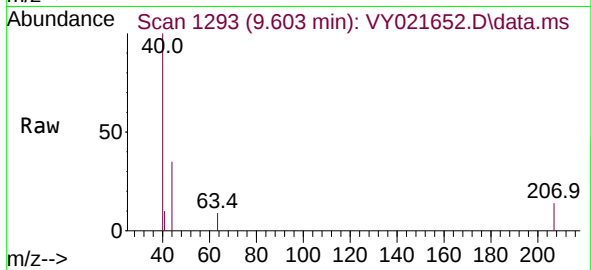




#58
2-Chloroethyl Vinyl ether
Concen: 2.266 ug/l
RT: 9.603 min Scan# 11
Delta R.T. -0.109 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

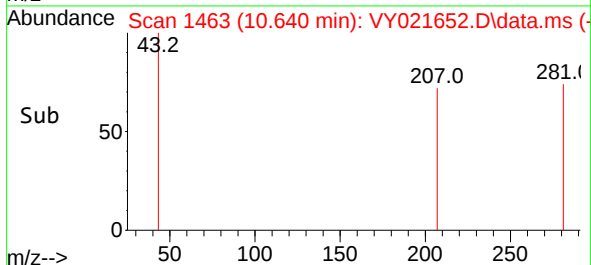
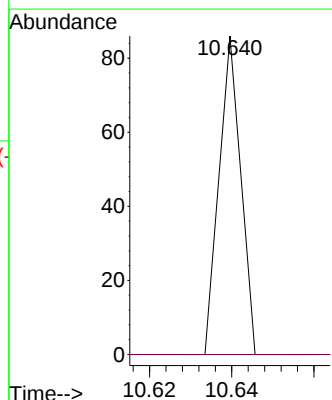
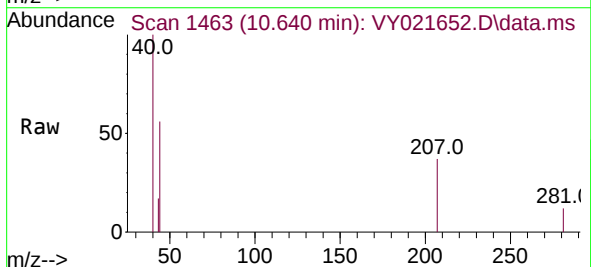
Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

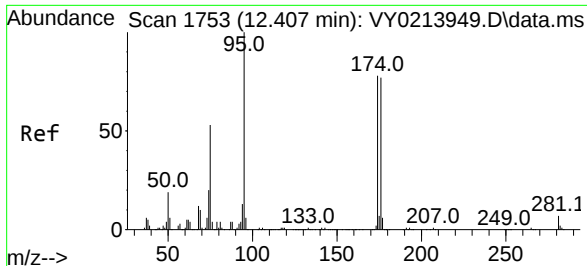
Tgt Ion: 63 Resp: 40
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 1.803 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. -0.122 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 43 Resp: 31
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#

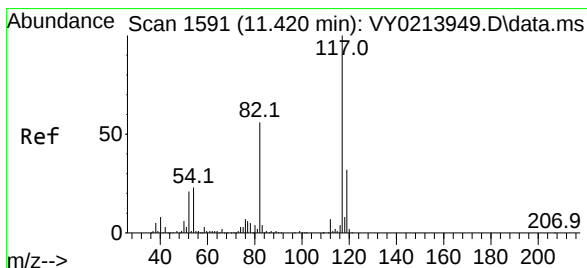
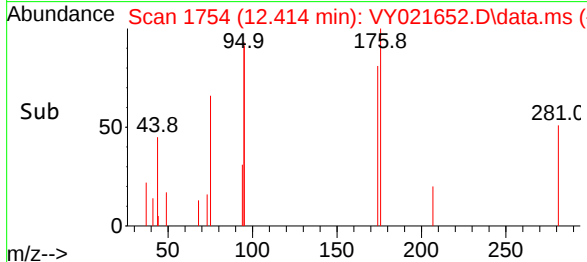
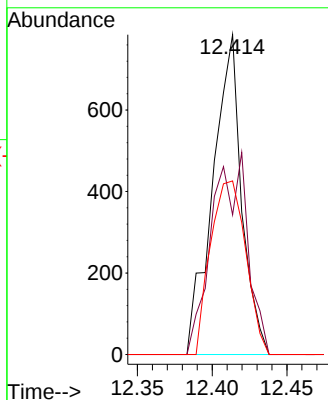
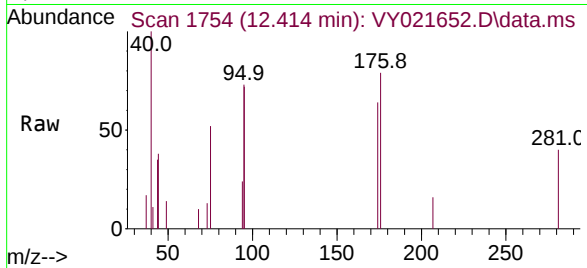




#62
4-Bromofluorobenzene
Concen: 21.845 ug/l
RT: 12.414 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

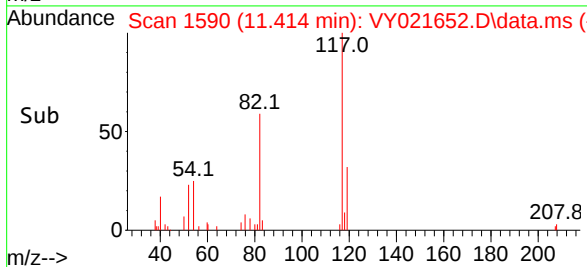
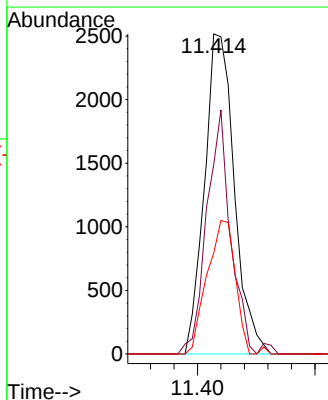
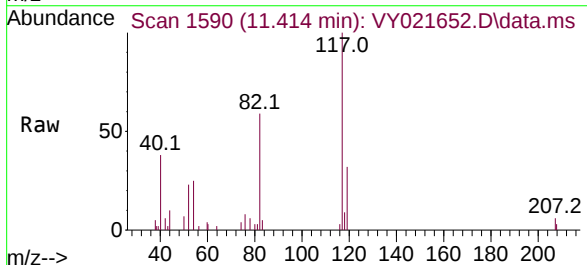
Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

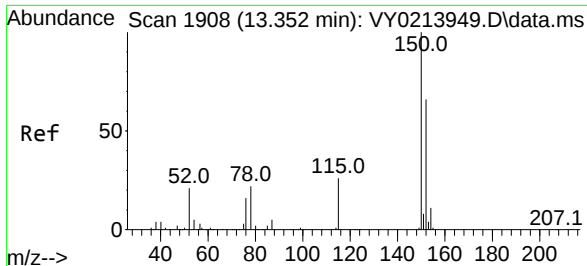
Tgt Ion: 95 Resp: 1056
Ion Ratio Lower Upper
95 100
174 77.1 0.0 165.0
176 66.2 0.0 160.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 117 Resp: 4433
Ion Ratio Lower Upper
117 100
82 59.1 44.6 67.0
119 31.5 25.4 38.0

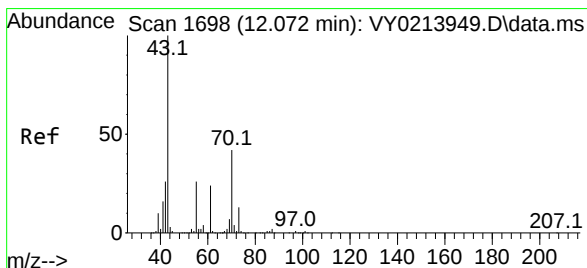
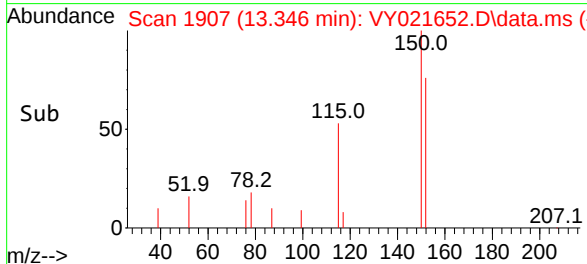
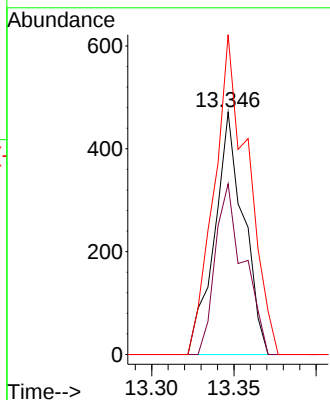
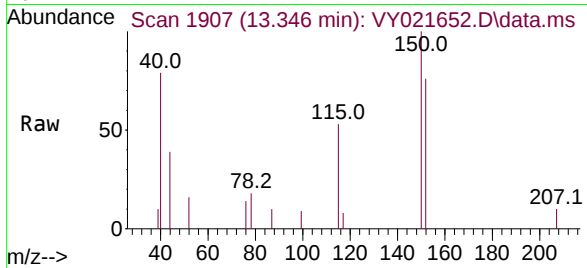




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1908
 Delta R.T. -0.006 min
 Lab File: VY021652.D
 Acq: 26 Mar 2025 17:21

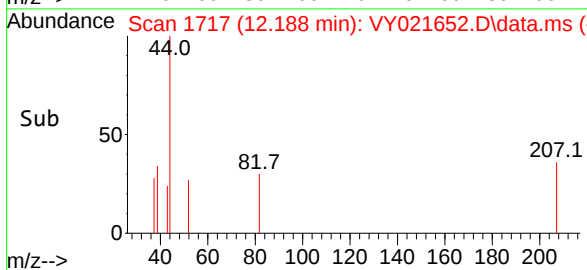
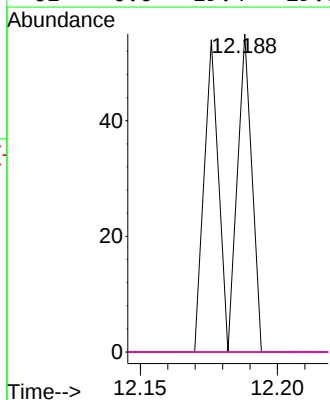
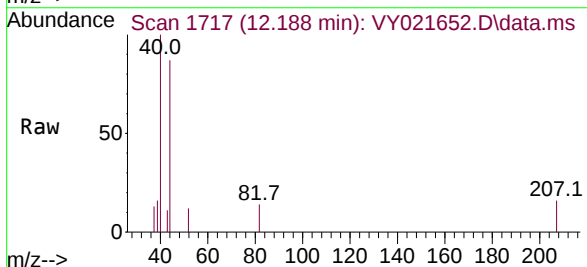
Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-4-VOC

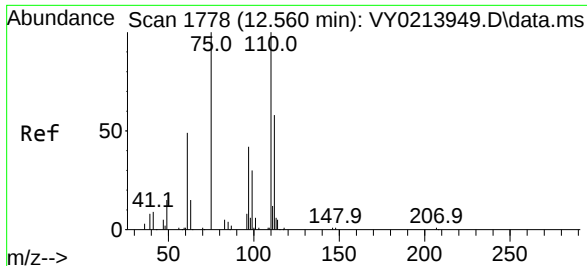
Tgt Ion:152 Resp: 581
 Ion Ratio Lower Upper
 152 100
 115 68.7 29.0 87.0
 150 153.2 0.0 347.2



#74
 N-ethyl acetate
 Concen: 4.024 ug/l
 RT: 12.188 min Scan# 1717
 Delta R.T. 0.116 min
 Lab File: VY021652.D
 Acq: 26 Mar 2025 17:21

Tgt Ion: 43 Resp: 40
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.6 51.8#
 55 0.0 21.1 31.7#
 61 0.0 19.4 29.0#

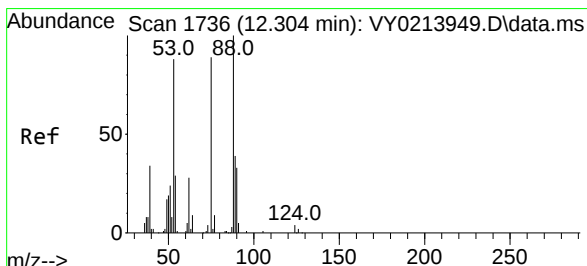
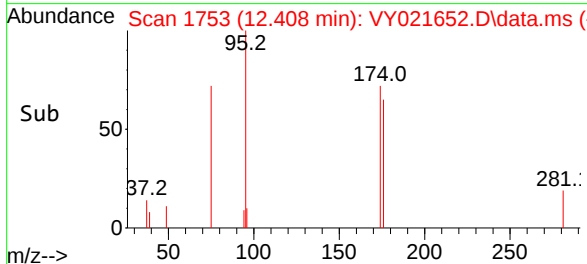
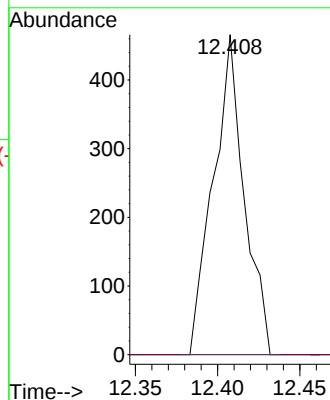
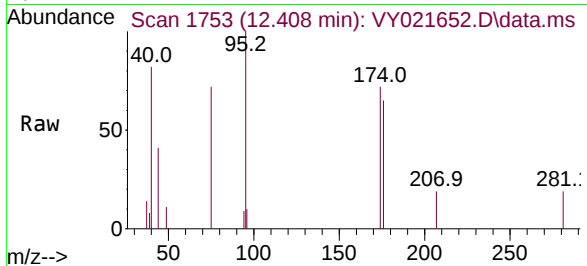




#76
1,2,3-Trichloropropane
Concen: 104.191 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

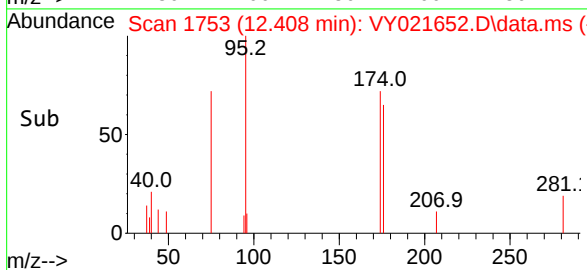
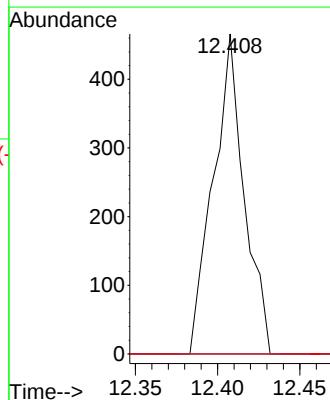
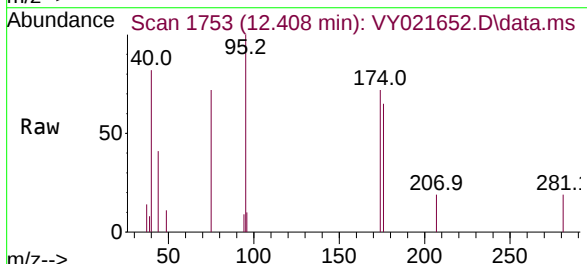
Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

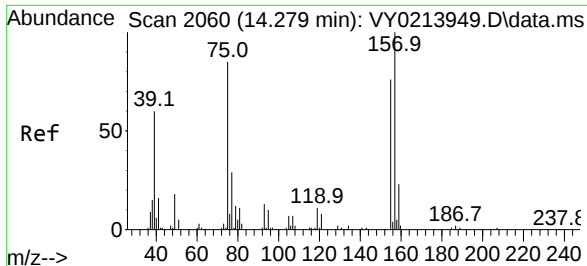
Tgt Ion: 75 Resp: 610
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 236.858 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 75 Resp: 610
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.0 36.9 55.3#

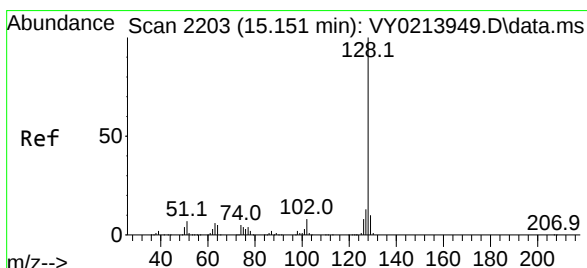
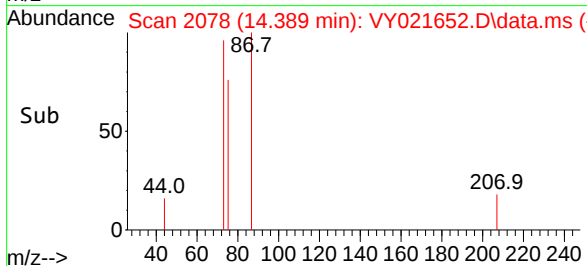
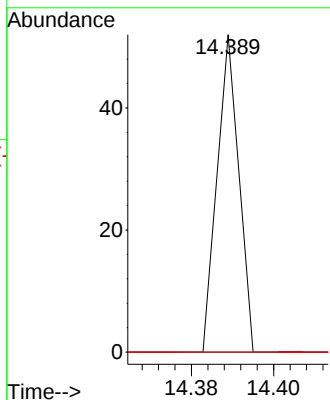
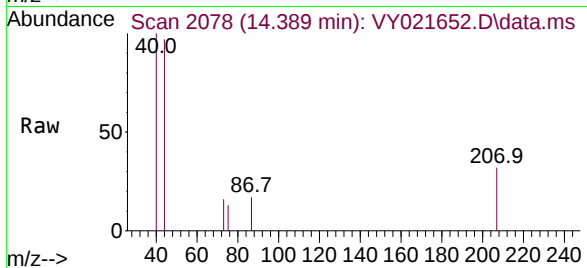




#92
1,2-Dibromo-3-Chloropropane
Concen: 15.705 ug/l
RT: 14.389 min Scan# 2060
Delta R.T. 0.110 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Instrument :
MSVOA_Y
ClientSampleId :
WC-4-VOC

Tgt Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
155 0.0 43.5 130.5#
157 0.0 54.4 163.2#



#95
Naphthalene
Concen: 3.412 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. -0.000 min
Lab File: VY021652.D
Acq: 26 Mar 2025 17:21

Tgt Ion: 128 Resp: 31
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#

