

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053122\
 Data File : VU048752.D
 Acq On : 31 May 2022 20:40
 Operator : SY/MD
 Sample : N3104-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WC-7

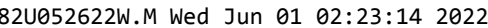
Quant Time: Jun 01 02:23:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052622W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 27 06:42:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.375	168	231278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	420539	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	383074	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	185661	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	185571	53.427	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	106.860%
35) Dibromofluoromethane	5.292	113	144033	48.007	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.020%
50) Toluene-d8	7.899	98	481047	44.729	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	89.460%#
62) 4-Bromofluorobenzene	10.632	95	176896	43.492	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	86.980%
Target Compounds						
					Qvalue	
5) Bromomethane	1.851	94	134	Below Cal	#	3
6) Chloroethane	1.935	64	369	Below Cal	#	43
10) Methyl Iodide	2.716	142	117	3.035	ug/l #	37
11) Tert butyl alcohol	3.186	59	9074	10.304	ug/l #	28
13) Acrolein	2.498	56	21	Below Cal	#	14
16) Acetone	2.626	43	97721	55.206	ug/l	97
18) Methyl Acetate	2.954	43	3921	0.882	ug/l	98
20) Methylene Chloride	3.044	84	29282	9.728	ug/l	93
25) 2-Butanone	4.713	43	13918	5.473	ug/l	100
29) Tetrahydrofuran	5.067	42	1059	0.661	ug/l #	61
31) Cyclohexane	5.369	56	4620	1.055	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	19153	4.374	ug/l #	50
37) Ethyl Acetate	4.713	43	13918	2.514	ug/l #	68
38) Carbon Tetrachloride	5.372	117	24477	4.872	ug/l #	17
43) Isopropyl Acetate	5.916	43	27353	3.404	ug/l	96
45) 1,2-Dichloropropane	7.044	63	1499	0.461	ug/l #	44
48) Methyl methacrylate	6.893	41	7782	2.158	ug/l #	13
49) 1,4-Dioxane	7.031	88	22	0.273	ug/l #	1
51) 4-Methyl-2-Pentanone	7.790	43	10048	1.926	ug/l	95
54) cis-1,3-Dichloropropene	7.739	75	41024	7.464	ug/l #	63
56) Ethyl methacrylate	8.240	69	281	2.663	ug/l #	26
57) 1,3-Dichloropropane	8.726	76	16620	2.894	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.472	63	45	29.790	ug/l #	47
59) 2-Hexanone	8.726	43	239166	55.842	ug/l #	51
74) N-amyl acetate	10.320	43	235	2.504	ug/l #	41
76) 1,2,3-Trichloropropane	10.632	75	90452	15.110	ug/l #	47
81) trans-1,4-Dichloro-2-b...	10.632	75	90452	54.863	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.475	105	940	1.269	ug/l	92
89) n-Butylbenzene	12.208	91	112	2.195	ug/l #	68
95) Naphthalene	14.095	128	5640	2.899	ug/l #	91

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

Quant Time: Jun 01 02:23:05 2022
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QLast Update : Fri May 27 06:42:31 2022
Response via : Initial Calibration

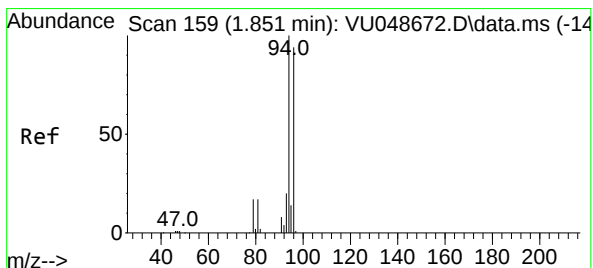
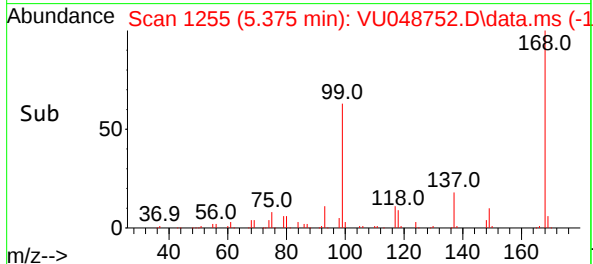
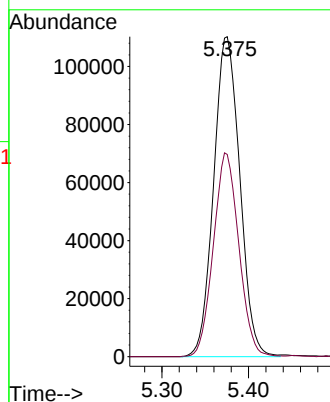
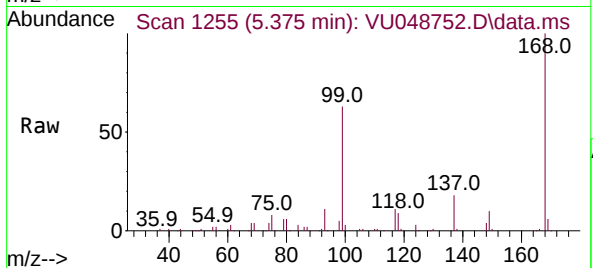




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

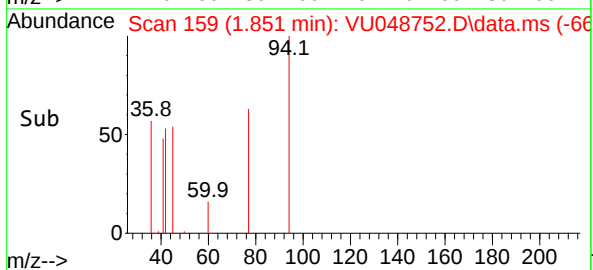
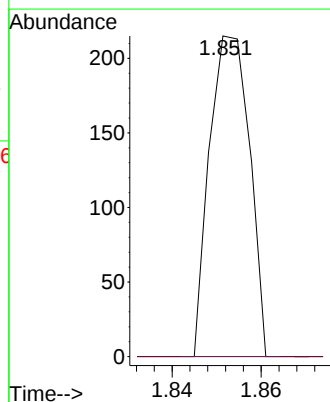
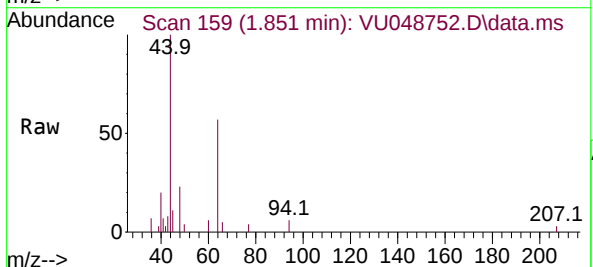
Instrument :
MSVOA_U
ClientSampleId :
WC-7

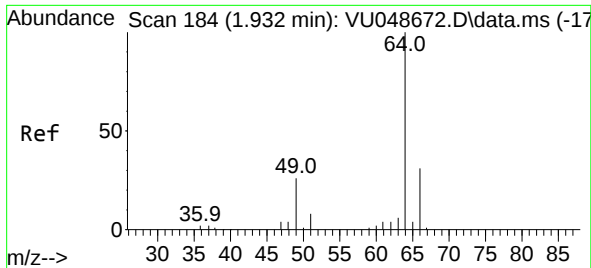
Tgt Ion:168 Resp: 231278
Ion Ratio Lower Upper
168 100
99 63.2 49.3 73.9



#5
Bromomethane
Concen: Below Cal
RT: 1.851 min Scan# 159
Delta R.T. 0.000 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 94 Resp: 134
Ion Ratio Lower Upper
94 100
96 0.0 75.1 112.7#

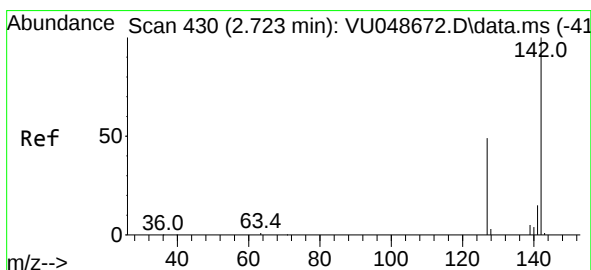
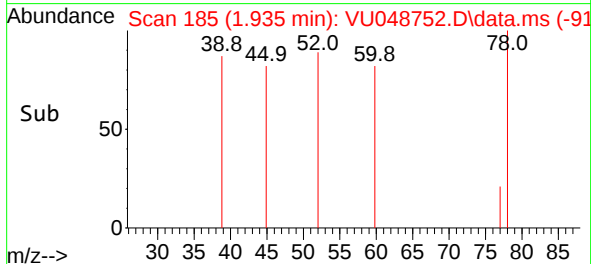
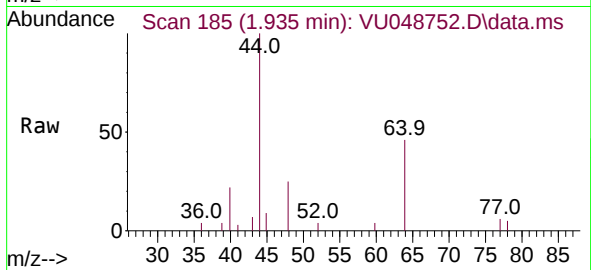




#6
Chloroethane
Concen: Below Cal
RT: 1.935 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

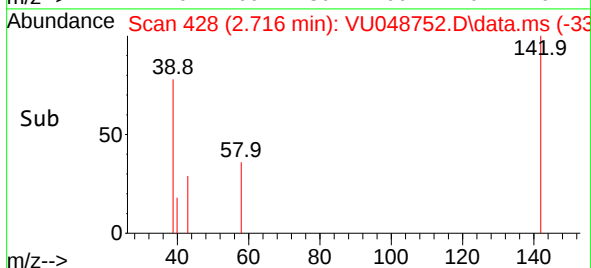
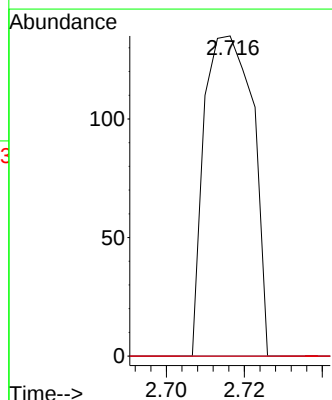
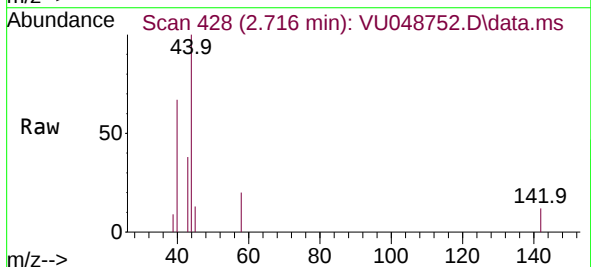
Instrument :
MSVOA_U
ClientSampleId :
WC-7

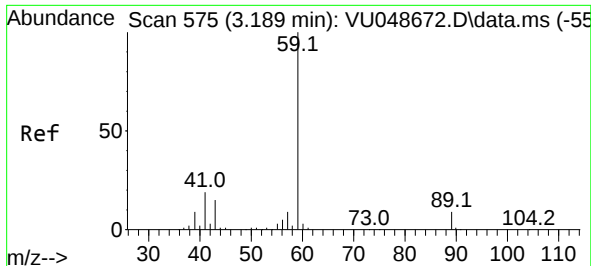
Tgt Ion: 64 Resp: 369
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#



#10
Methyl Iodide
Concen: 3.035 ug/l
RT: 2.716 min Scan# 428
Delta R.T. -0.007 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion:142 Resp: 117
Ion Ratio Lower Upper
142 100
127 0.0 38.4 57.6#
141 0.0 11.5 17.3#

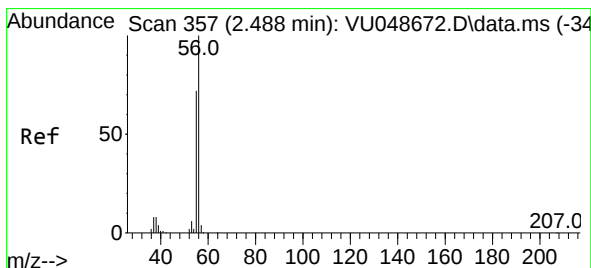
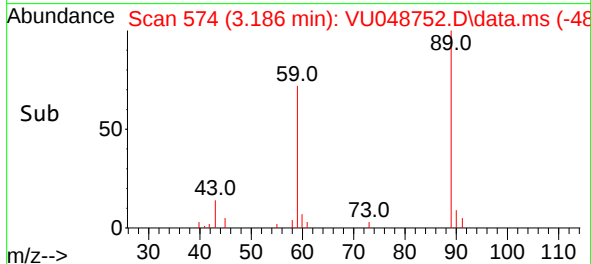
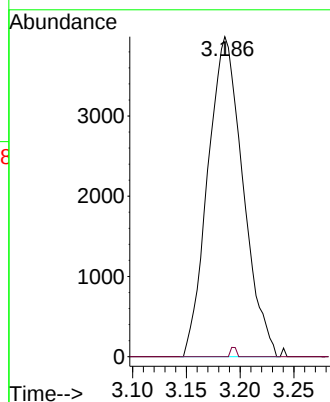
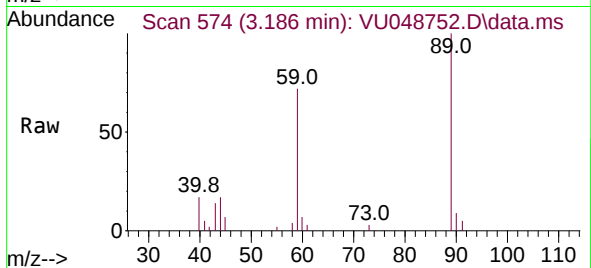




#11
Tert butyl alcohol
Concen: 10.304 ug/l
RT: 3.186 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

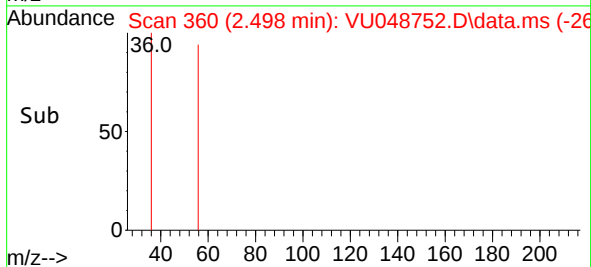
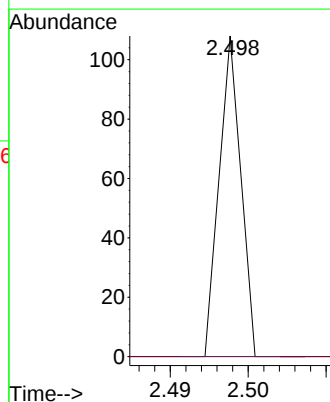
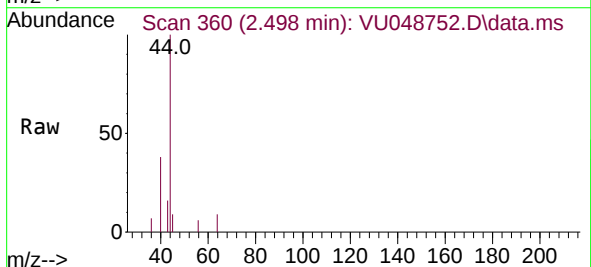
Instrument :
MSVOA_U
ClientSampleId :
WC-7

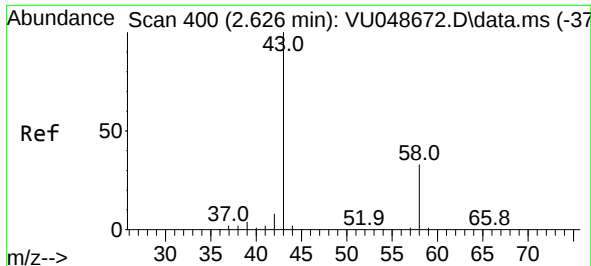
Tgt Ion: 59 Resp: 9074
Ion Ratio Lower Upper
59 100
57 0.5 39.7 59.5#



#13
Acrolein
Concen: Below Cal
RT: 2.498 min Scan# 360
Delta R.T. 0.010 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 56 Resp: 21
Ion Ratio Lower Upper
56 100
55 0.0 57.7 86.5#





#16

Acetone

Concen: 55.206 ug/l

RT: 2.626 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Instrument :

MSVOA_U

ClientSampleId :

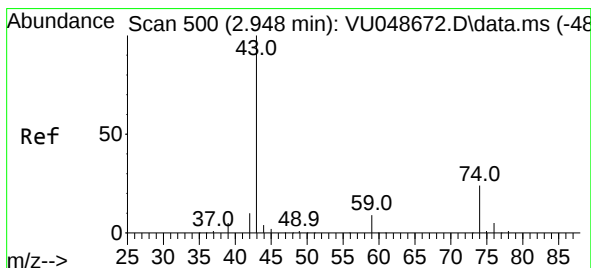
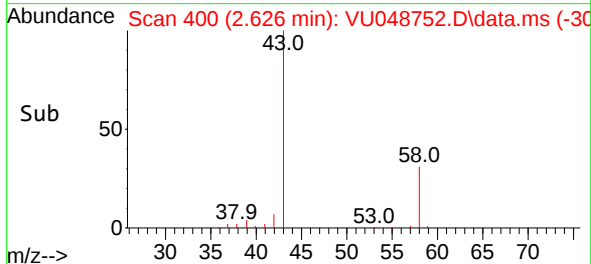
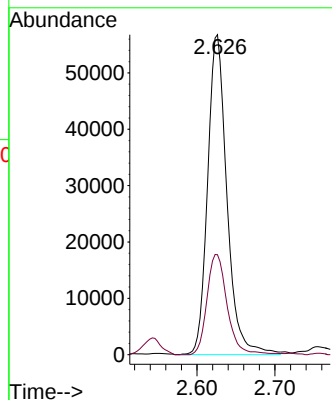
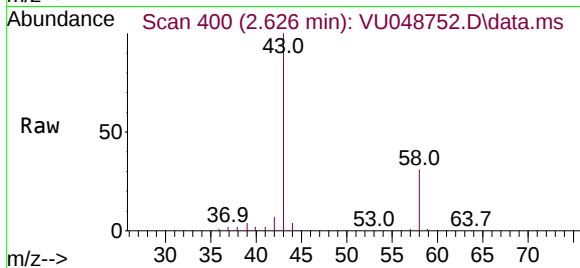
WC-7

Tgt Ion: 43 Resp: 97721

Ion Ratio Lower Upper

43 100

58 31.2 26.3 39.5



#18

Methyl Acetate

Concen: 0.882 ug/l

RT: 2.954 min Scan# 502

Delta R.T. 0.007 min

Lab File: VU048752.D

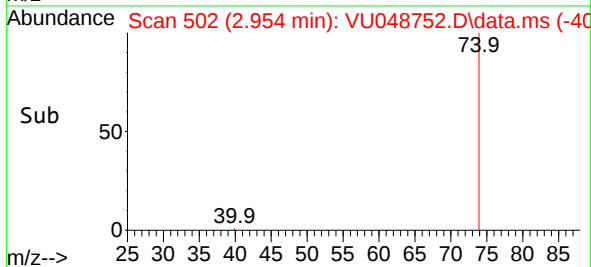
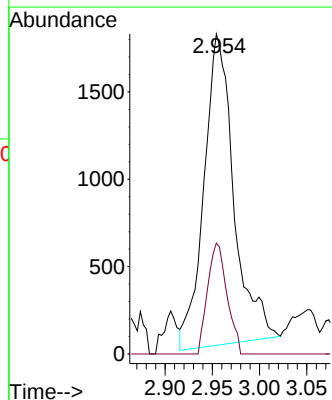
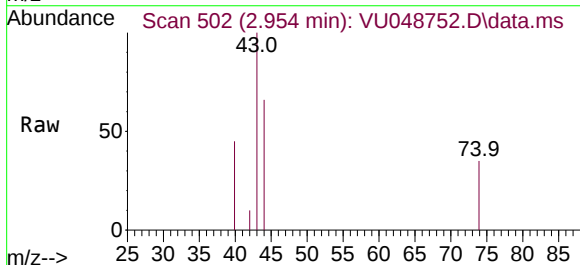
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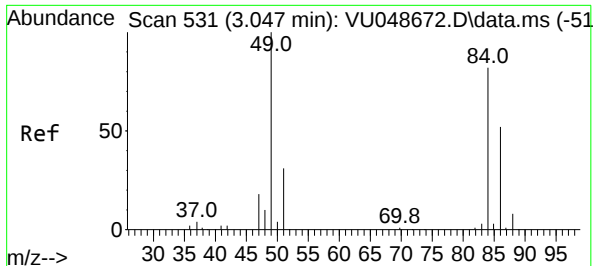
Tgt Ion: 43 Resp: 3921

Ion Ratio Lower Upper

43 100

74 23.1 19.2 28.8

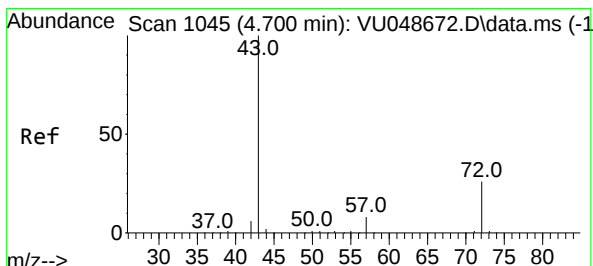
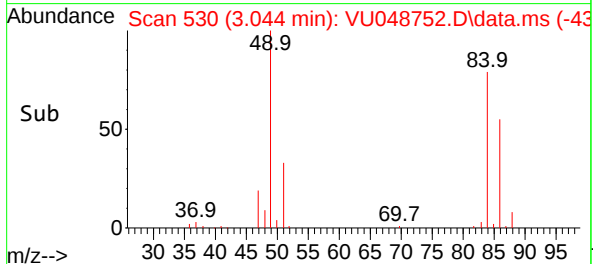
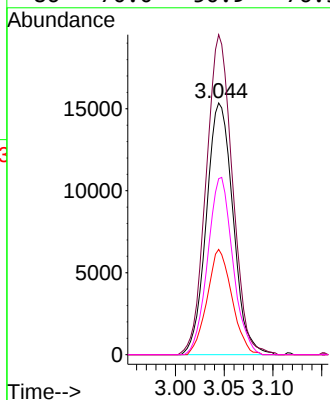
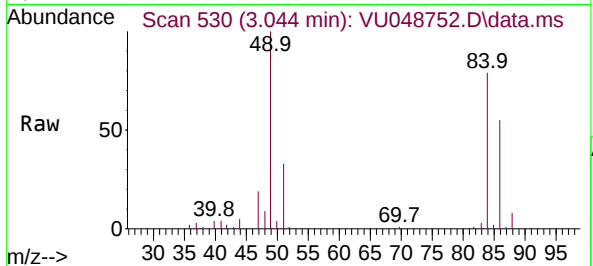




#20
Methylene Chloride
Concen: 9.728 ug/l
RT: 3.044 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

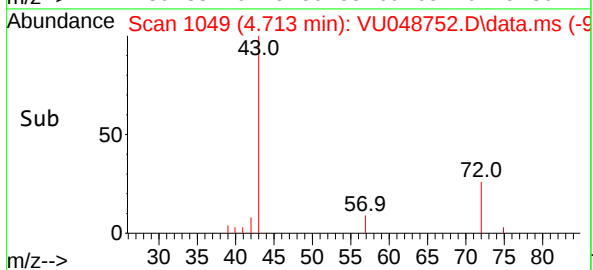
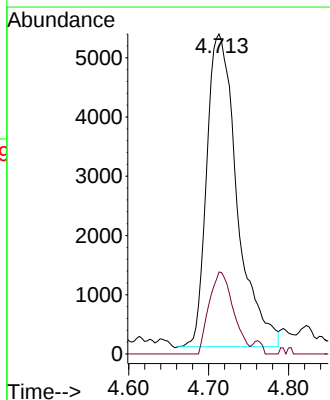
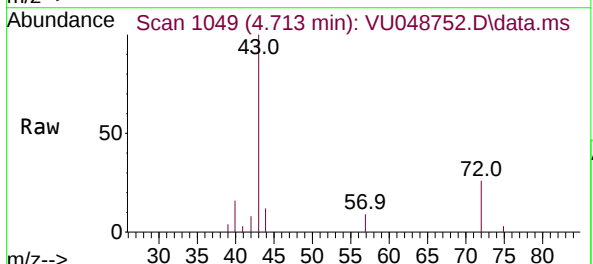
Instrument :
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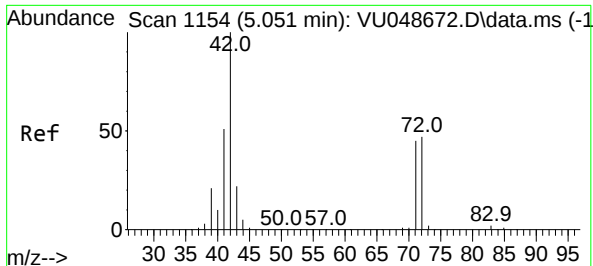
Tgt Ion:	84	Resp:	29282
Ion	Ratio	Lower	Upper
84	100		
49	127.2	97.0	145.4
51	41.8	29.8	44.8
86	70.0	50.9	76.3



#25
2-Butanone
Concen: 5.473 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. 0.013 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion:	43	Resp:	13918
Ion	Ratio	Lower	Upper
43	100		
72	26.2	21.1	31.7





#29

Tetrahydrofuran

Concen: 0.661 ug/l

RT: 5.067 min Scan# 1159

Delta R.T. 0.016 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Instrument :

MSVOA_U

ClientSampleId :

WC-7

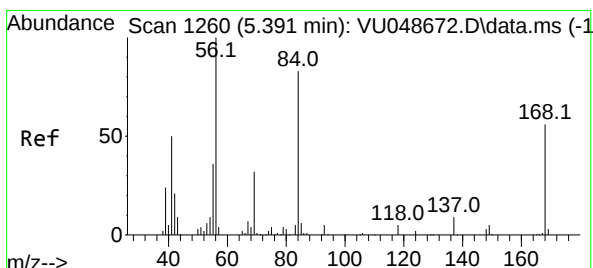
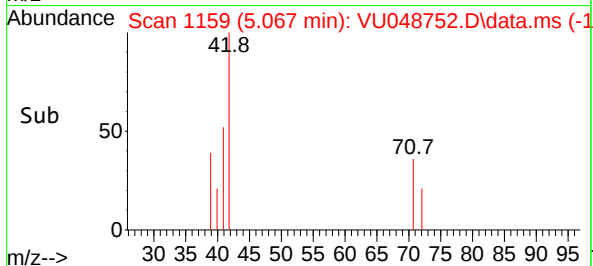
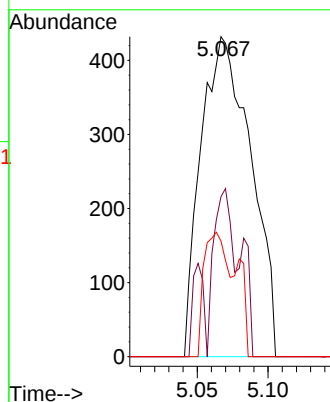
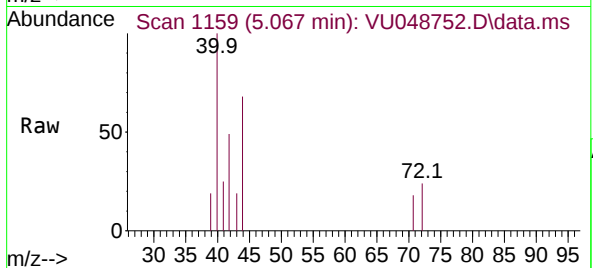
Tgt Ion: 42 Resp: 1059

Ion Ratio Lower Upper

42 100

72 21.5 37.6 56.4#

71 18.1 35.0 52.4#



#31

Cyclohexane

Concen: 1.055 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.022 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

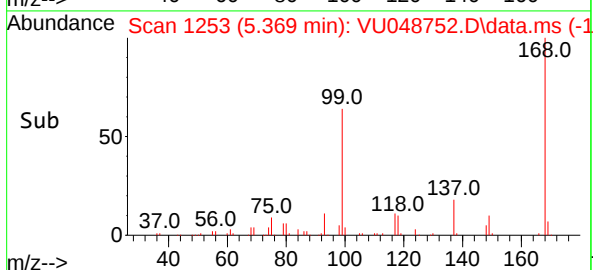
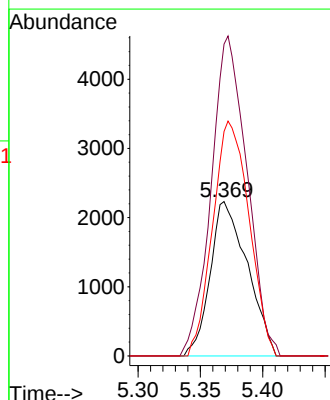
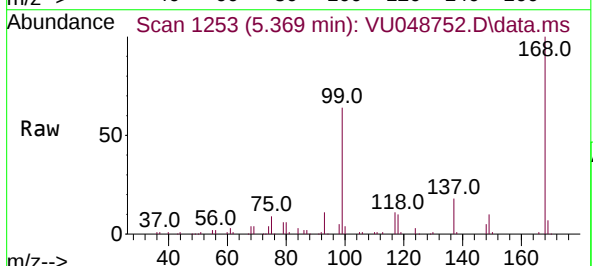
Tgt Ion: 56 Resp: 4620

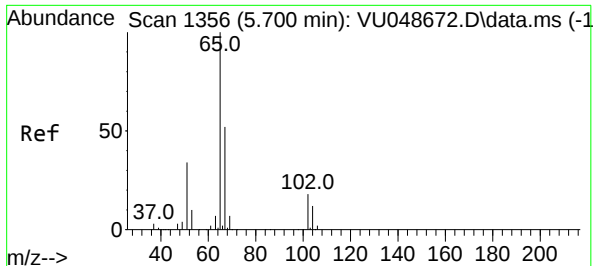
Ion Ratio Lower Upper

56 100

69 202.0 25.6 38.4#

84 145.4 66.2 99.4#





#33

1,2-Dichloroethane-d4

Concen: 53.427 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU048752.D

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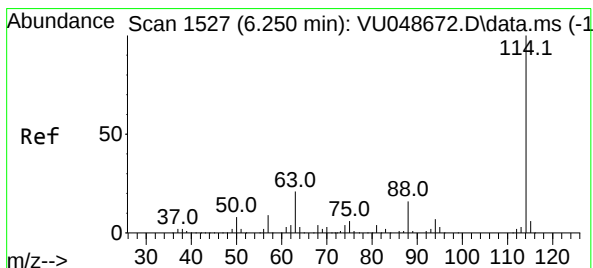
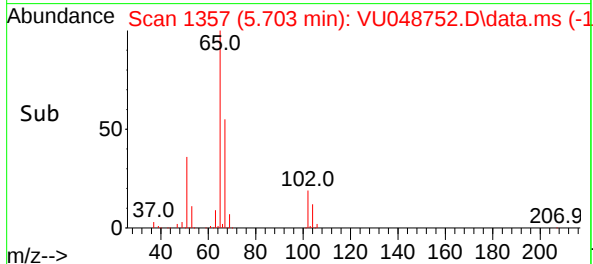
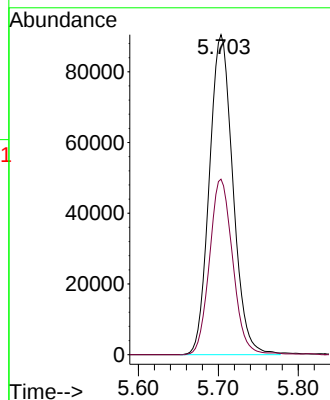
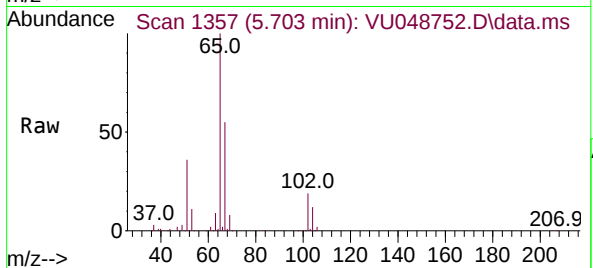
WC-7

Tgt Ion: 65 Resp: 185571

Ion Ratio Lower Upper

65 100

67 54.0 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. -0.000 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

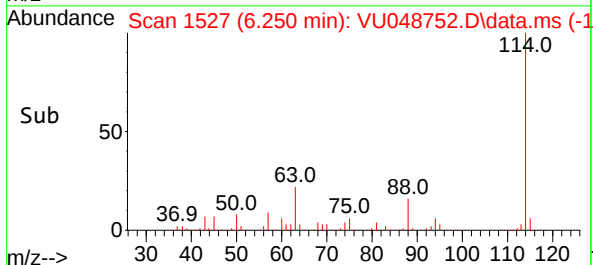
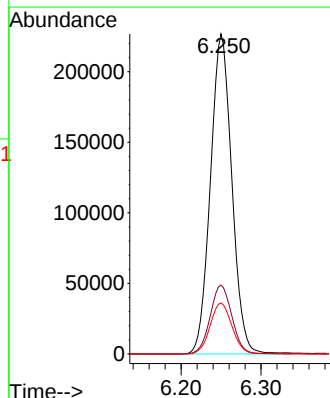
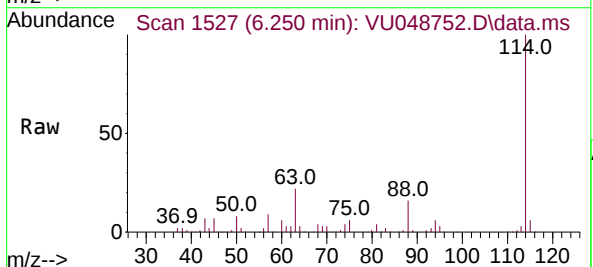
Tgt Ion: 114 Resp: 420539

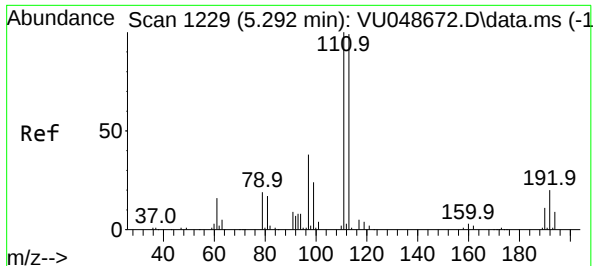
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.6

88 16.0 0.0 32.2

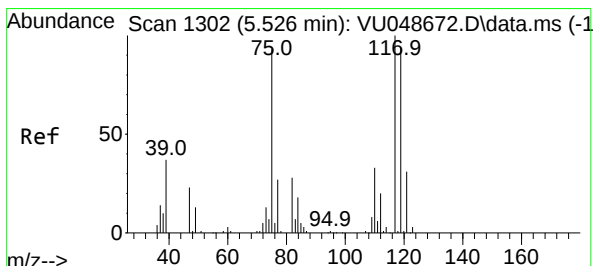
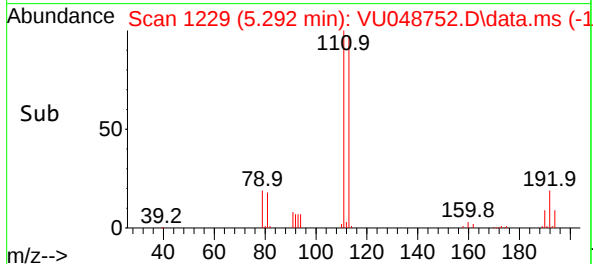
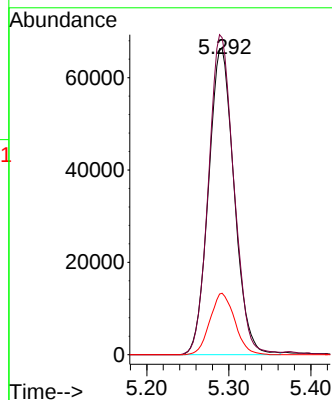
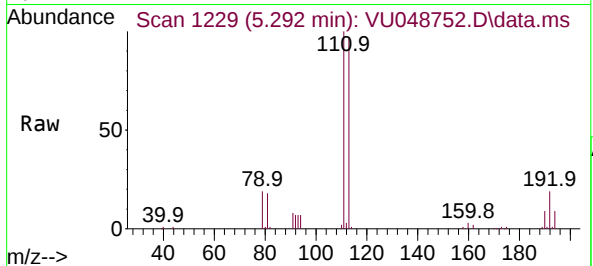




#35
Dibromofluoromethane
Concen: 48.007 ug/l
RT: 5.292 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

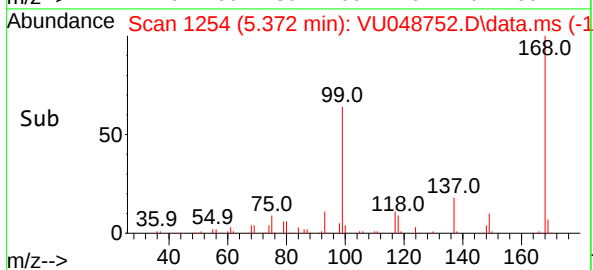
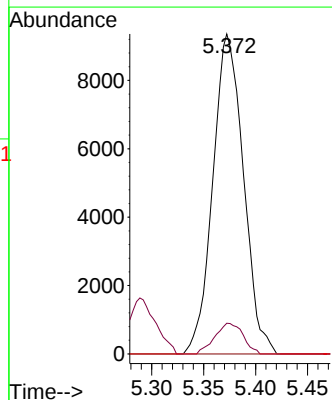
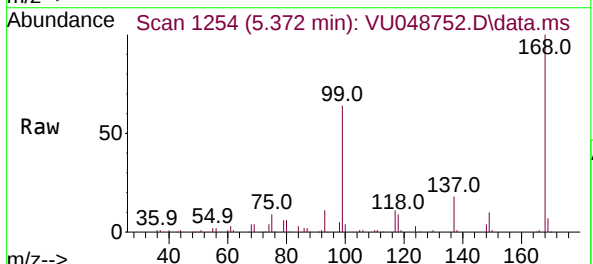
Instrument :
MSVOA_U
ClientSampleId :
WC-7

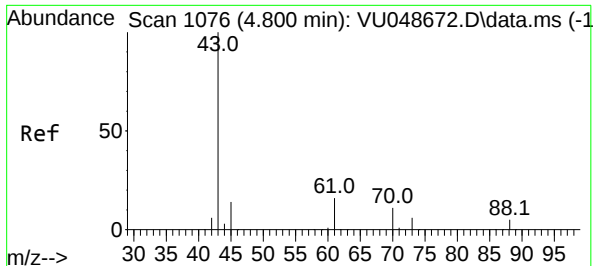
Tgt Ion:113 Resp: 144033
Ion Ratio Lower Upper
113 100
111 103.0 80.7 121.1
192 19.4 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.374 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 75 Resp: 19153
Ion Ratio Lower Upper
75 100
110 8.9 17.4 52.3#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 2.514 ug/l

RT: 4.713 min Scan# 1049

Delta R.T. -0.087 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Instrument :

MSVOA_U

ClientSampleId :

WC-7

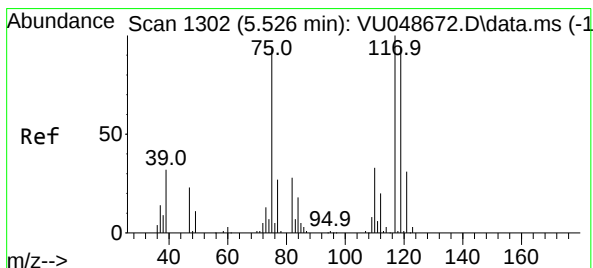
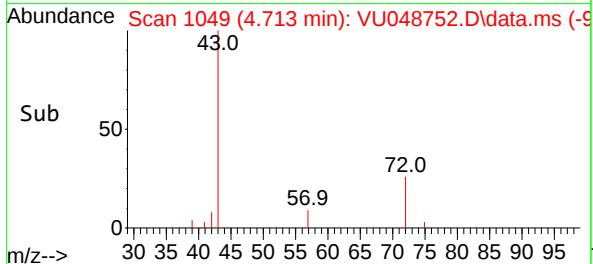
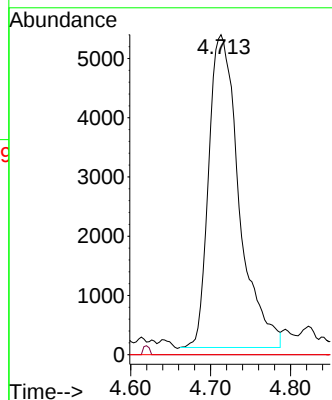
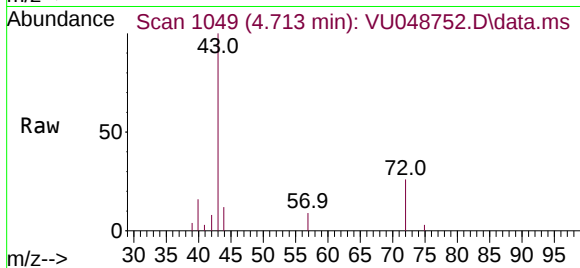
Tgt Ion: 43 Resp: 13918

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

70 0.0 8.4 12.6#



#38

Carbon Tetrachloride

Concen: 4.872 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.154 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

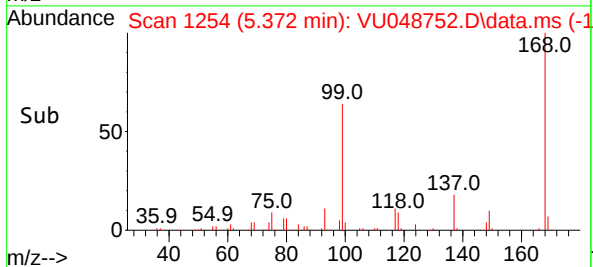
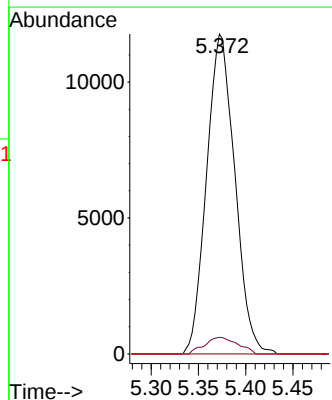
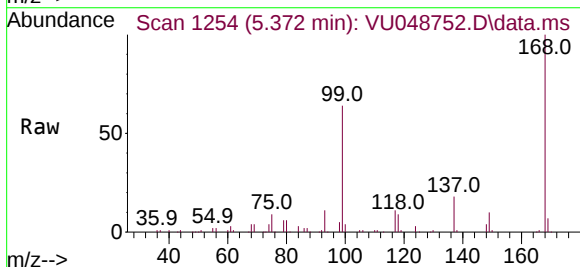
Tgt Ion: 117 Resp: 24477

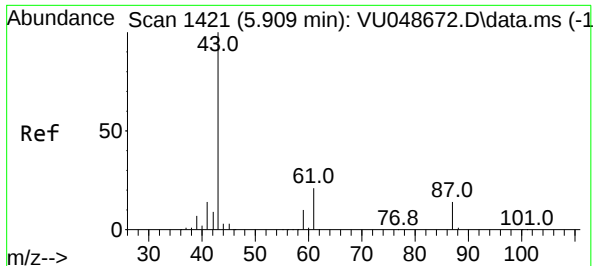
Ion Ratio Lower Upper

117 100

119 5.2 75.4 113.2#

121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 3.404 ug/l

RT: 5.916 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Instrument :

MSVOA_U

ClientSampleId :

WC-7

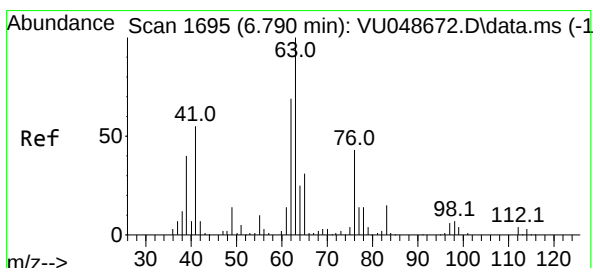
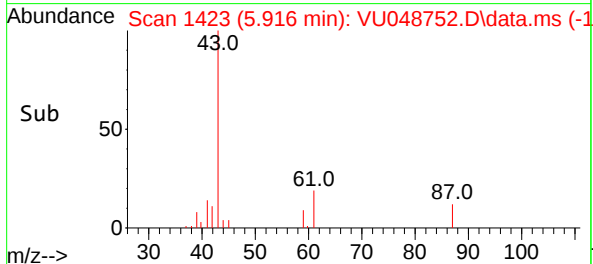
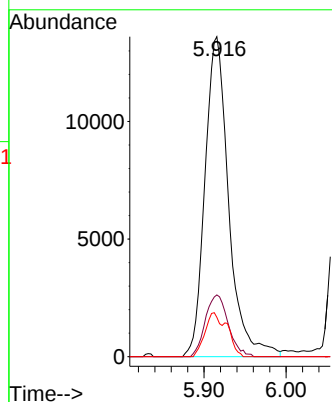
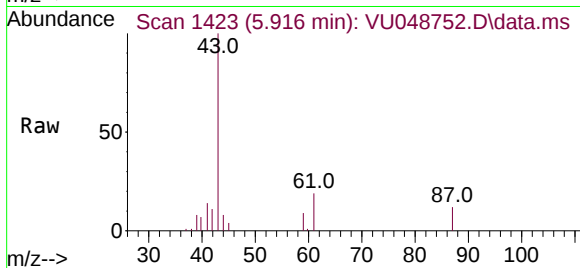
Tgt Ion: 43 Resp: 27353

Ion Ratio Lower Upper

43 100

61 18.6 16.7 25.1

87 12.8 10.9 16.3



#45

1,2-Dichloropropane

Concen: 0.461 ug/l

RT: 7.044 min Scan# 1774

Delta R.T. 0.254 min

Lab File: VU048752.D

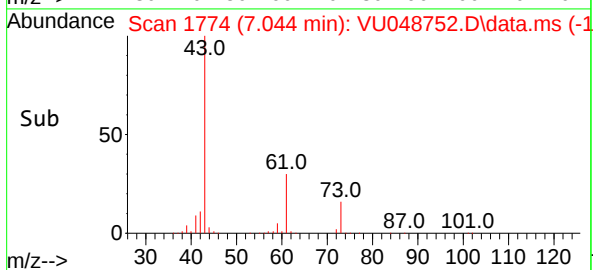
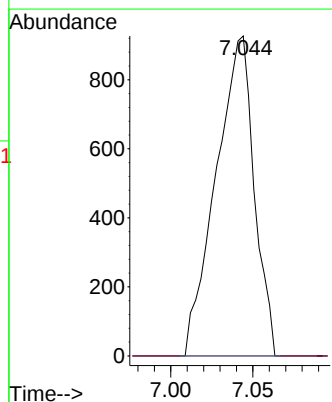
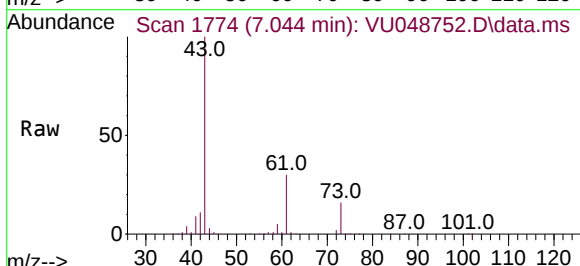
Acq: 31 May 2022 20:40

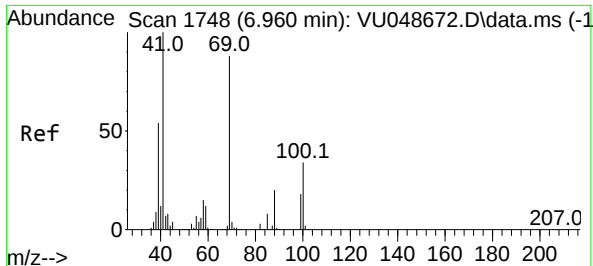
Tgt Ion: 63 Resp: 1499

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#

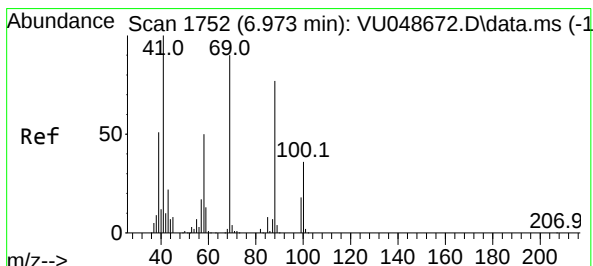
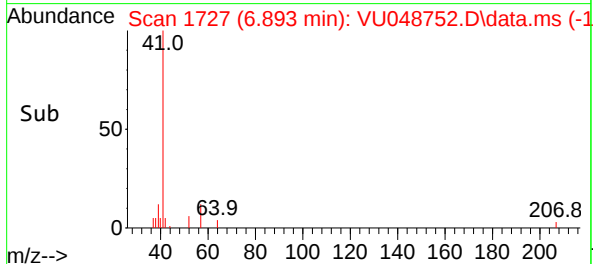
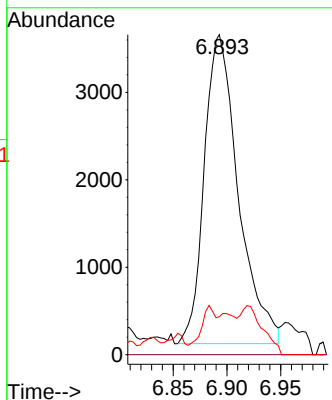
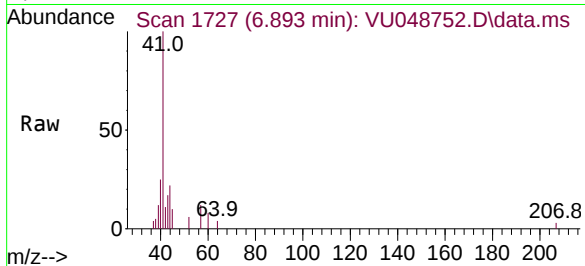




#48
Methyl methacrylate
Concen: 2.158 ug/l
RT: 6.893 min Scan# 1770
Delta R.T. -0.067 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

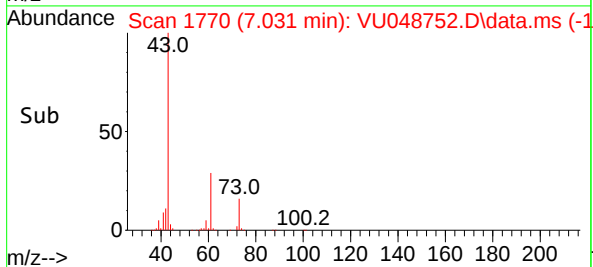
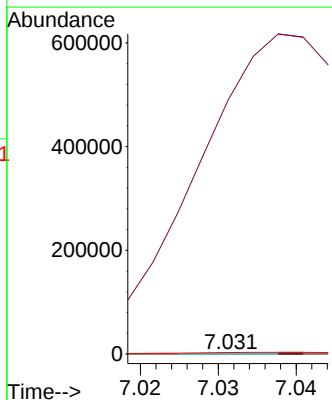
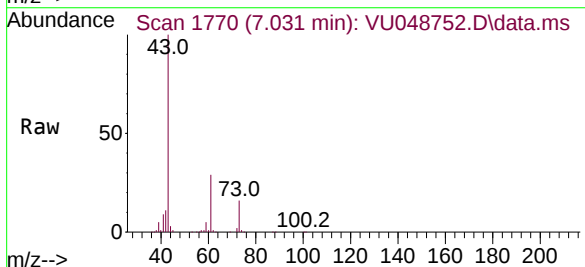
Instrument :
MSVOA_U
ClientSampleId :
WC-7

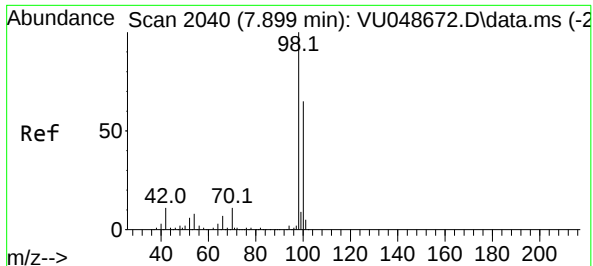
Tgt Ion: 41 Resp: 7782
Ion Ratio Lower Upper
41 100
69 0.0 70.7 106.1#
39 0.0 43.4 65.2#



#49
1,4-Dioxane
Concen: 0.273 ug/l
RT: 7.031 min Scan# 1770
Delta R.T. 0.058 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 4860786.4 24.6 36.8#
58 25563.6 54.7 82.1#

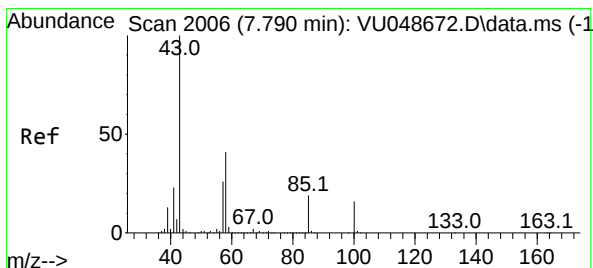
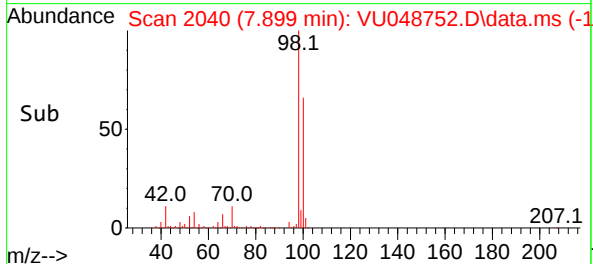
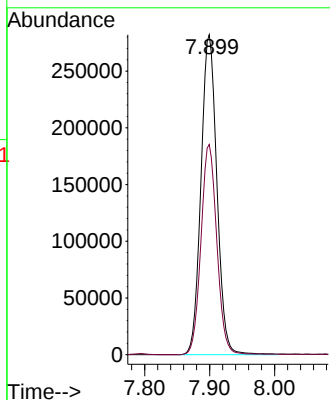
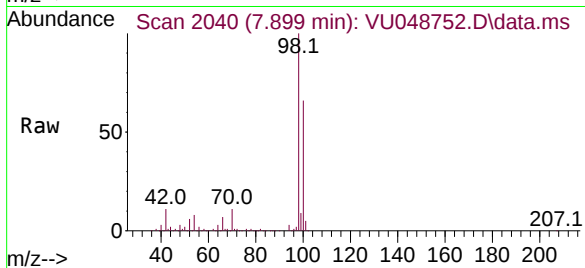




#50
Toluene-d8
Concen: 44.729 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. 0.000 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

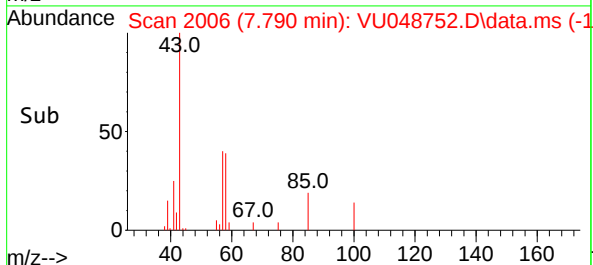
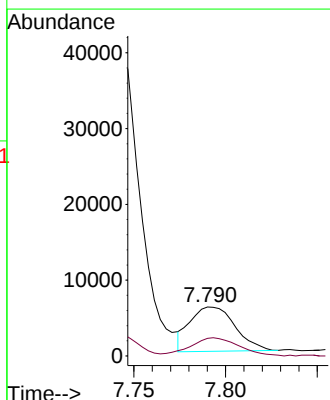
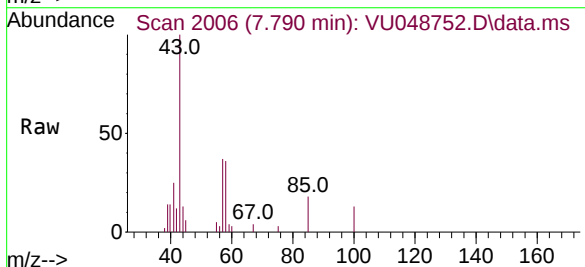
Instrument :
MSVOA_U
ClientSampleId :
WC-7

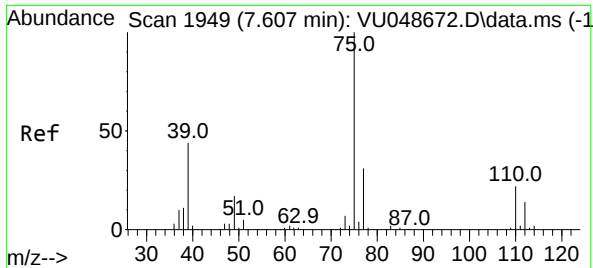
Tgt Ion: 98 Resp: 481047
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 1.926 ug/l
RT: 7.790 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 43 Resp: 10048
Ion Ratio Lower Upper
43 100
58 44.1 32.7 49.1

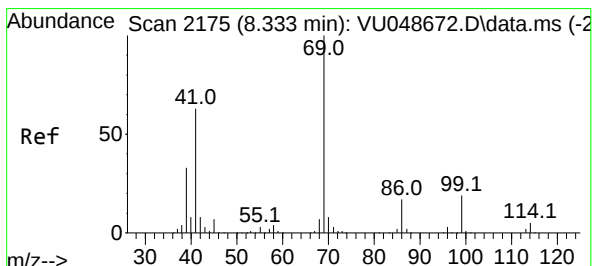
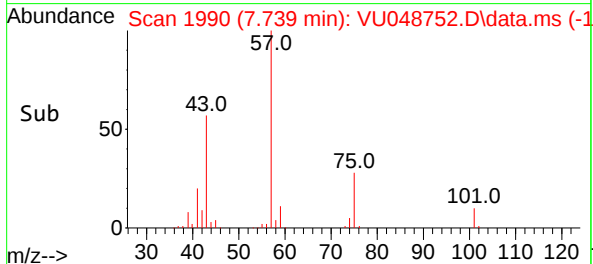
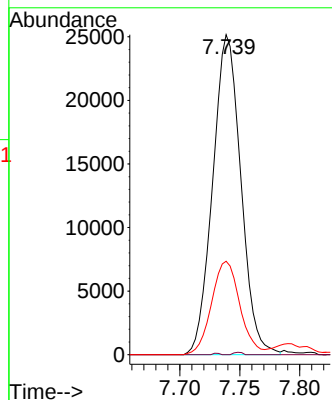
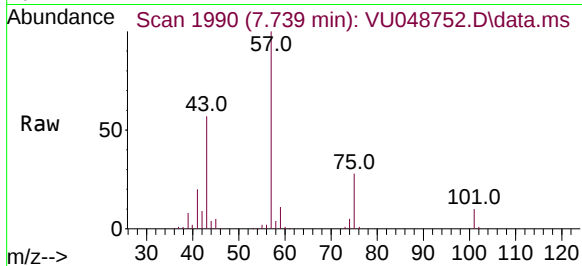




#54
 cis-1,3-Dichloropropene
 Concen: 7.464 ug/l
 RT: 7.739 min Scan# 1949
 Delta R.T. 0.132 min
 Lab File: VU048752.D
 Acq: 31 May 2022 20:40

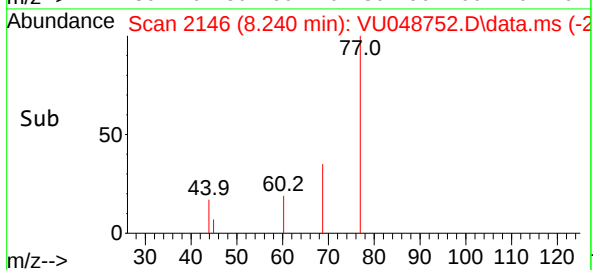
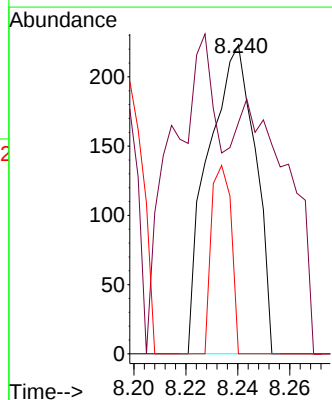
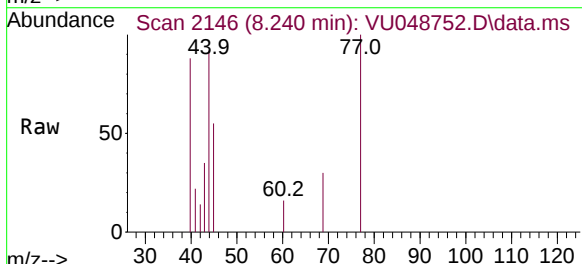
Instrument :
 MSVOA_U
 ClientSampleId :
 WC-7

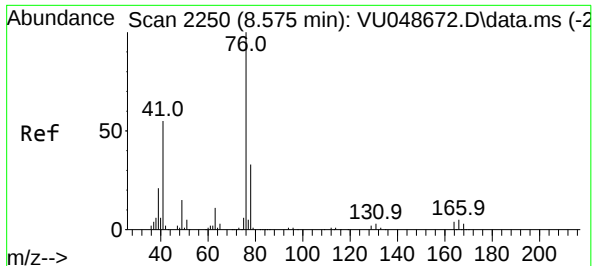
Tgt Ion: 75 Resp: 41024
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 29.2 35.2 52.8#



#56
 Ethyl methacrylate
 Concen: 2.663 ug/l
 RT: 8.240 min Scan# 2146
 Delta R.T. -0.093 min
 Lab File: VU048752.D
 Acq: 31 May 2022 20:40

Tgt Ion: 69 Resp: 281
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.6 76.0#
 39 0.0 26.6 40.0#





#57

1,3-Dichloropropane

Concen: 2.894 ug/l

RT: 8.726 min Scan# 21

Delta R.T. 0.151 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Instrument :

MSVOA_U

ClientSampleId :

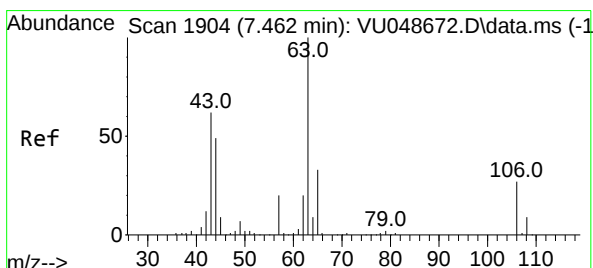
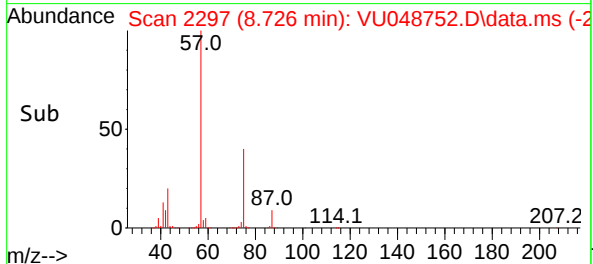
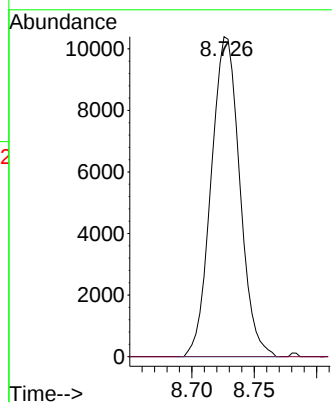
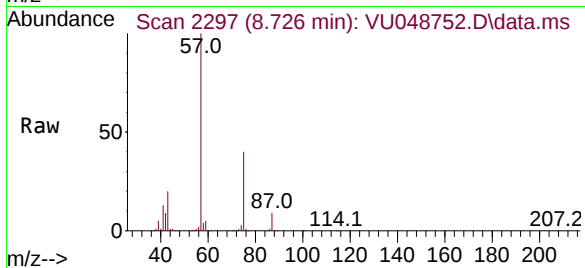
WC-7

Tgt Ion: 76 Resp: 16620

Ion Ratio Lower Upper

76 100

78 0.0 26.6 39.8#



#58

2-Chloroethyl Vinyl ether

Concen: 29.790 ug/l

RT: 7.472 min Scan# 1907

Delta R.T. 0.010 min

Lab File: VU048752.D

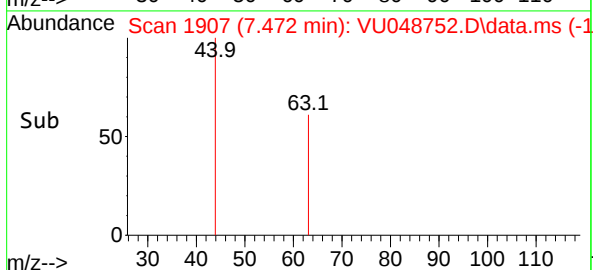
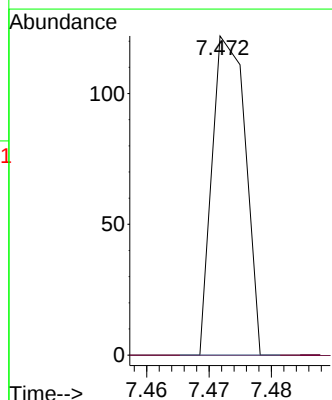
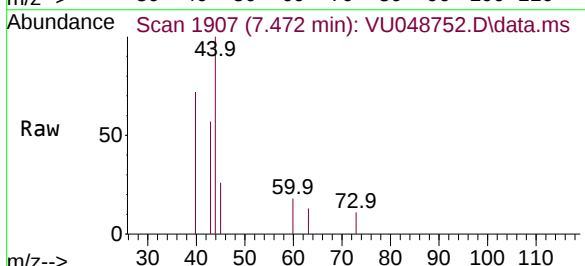
Acq: 31 May 2022 20:40

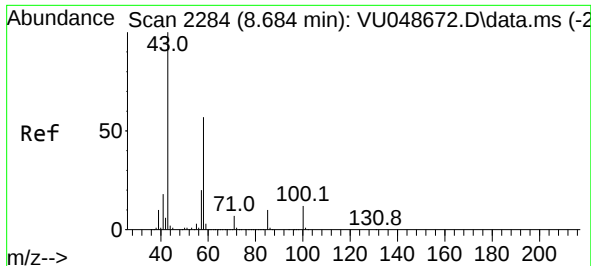
Tgt Ion: 63 Resp: 45

Ion Ratio Lower Upper

63 100

106 0.0 22.2 33.2#

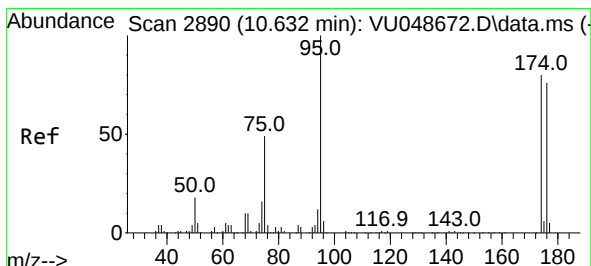
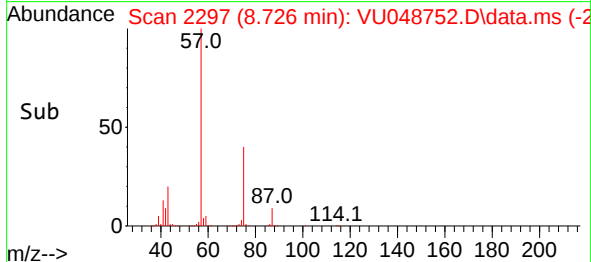
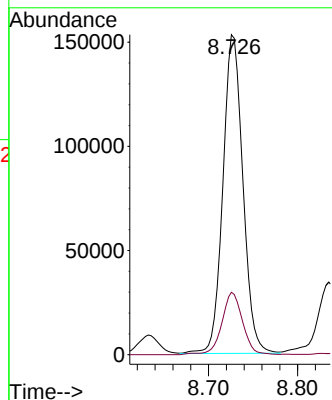
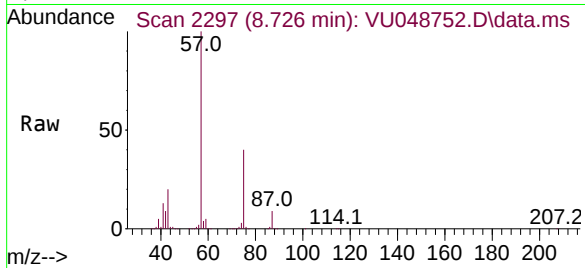




#59
2-Hexanone
Concen: 55.842 ug/l
RT: 8.726 min Scan# 21
Delta R.T. 0.042 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

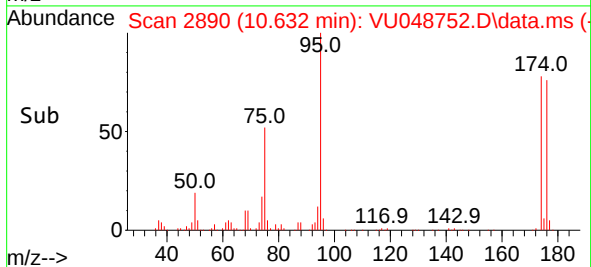
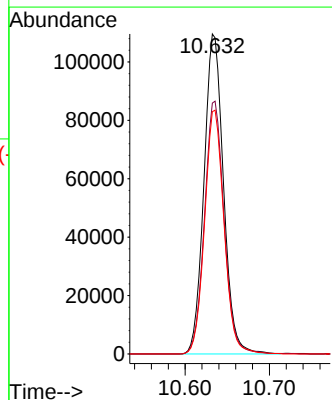
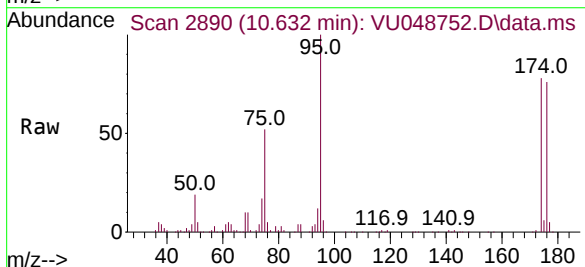
Instrument :
MSVOA_U
ClientSampleId :
WC-7

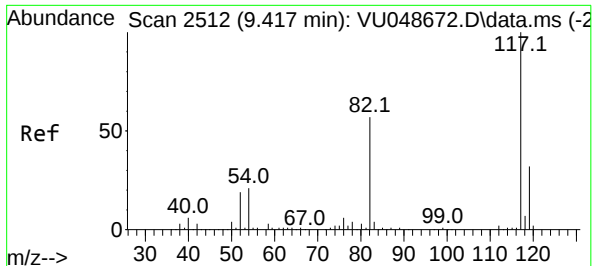
Tgt Ion: 43 Resp: 239166
Ion Ratio Lower Upper
43 100
58 20.3 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 43.492 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.000 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 95 Resp: 176896
Ion Ratio Lower Upper
95 100
174 79.4 0.0 159.4
176 75.9 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.417 min Scan# 2

Delta R.T. 0.000 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Instrument :

MSVOA_U

ClientSampleId :

WC-7

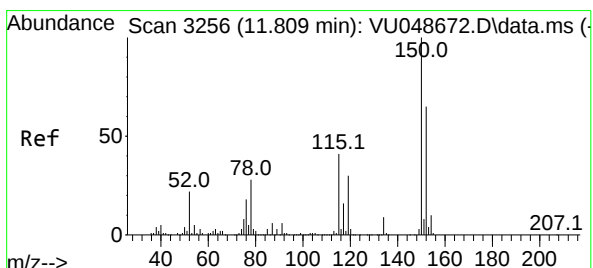
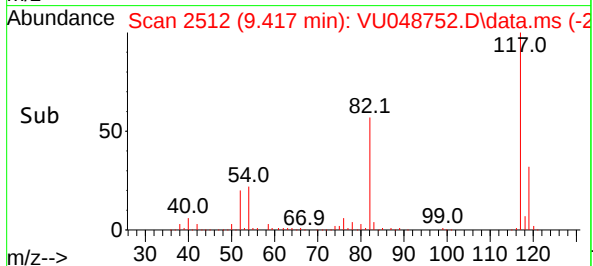
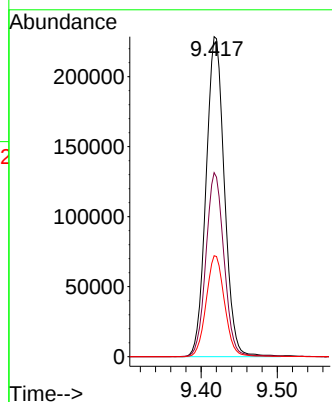
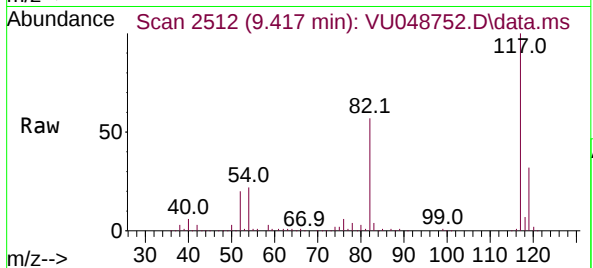
Tgt Ion:117 Resp: 383074

Ion Ratio Lower Upper

117 100

82 57.4 45.3 67.9

119 31.5 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.812 min Scan# 3257

Delta R.T. 0.003 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

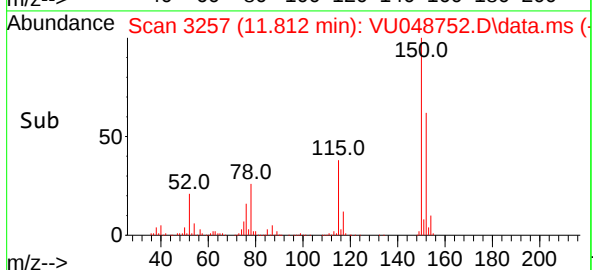
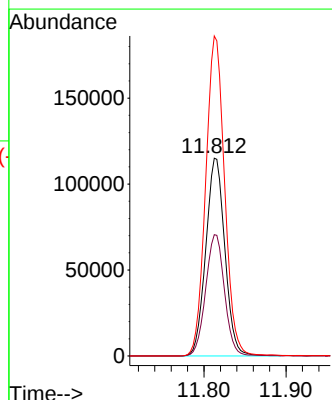
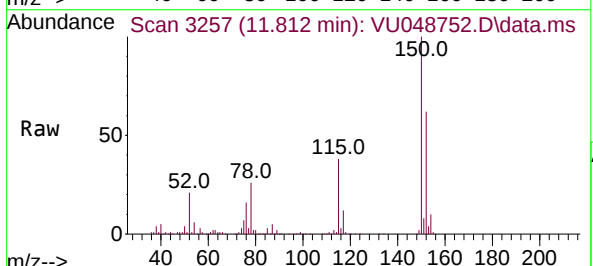
Tgt Ion:152 Resp: 185661

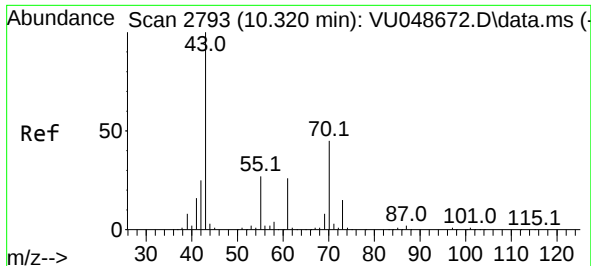
Ion Ratio Lower Upper

152 100

115 60.7 41.8 125.4

150 160.6 0.0 341.0

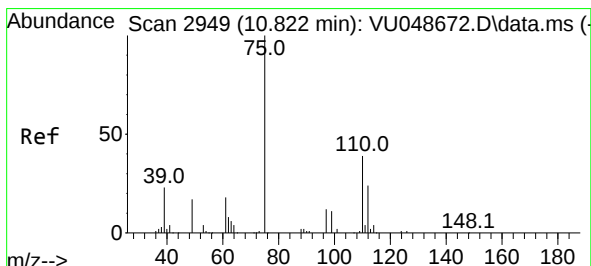
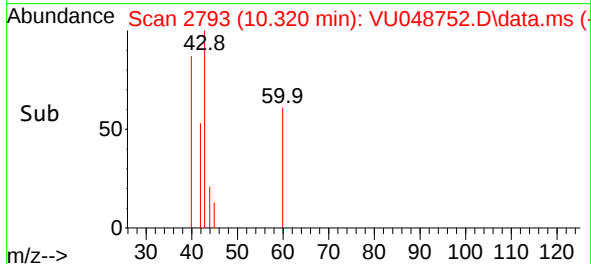
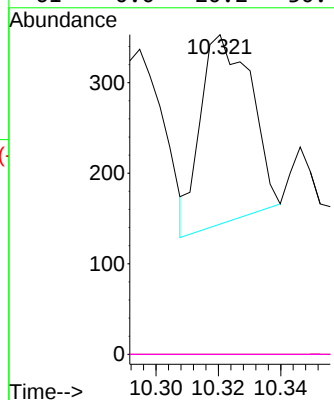
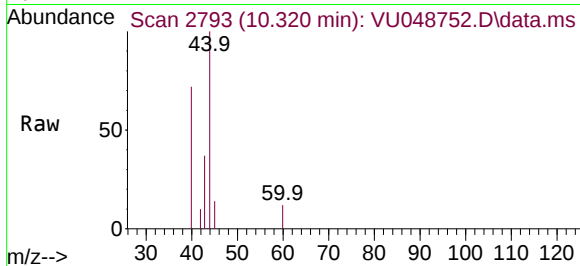




#74
N-amy1 acetate
Concen: 2.504 ug/l
RT: 10.320 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

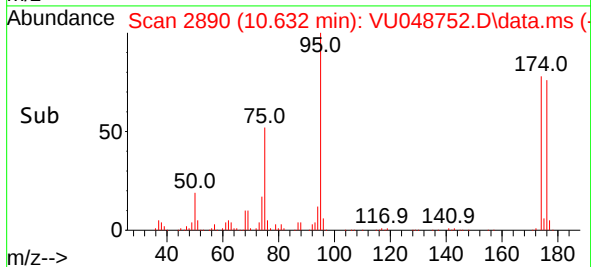
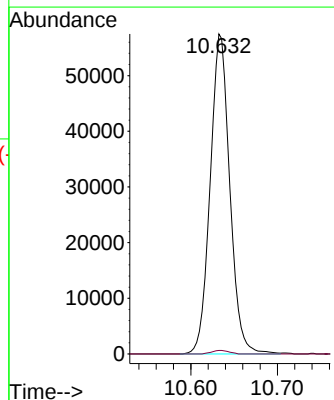
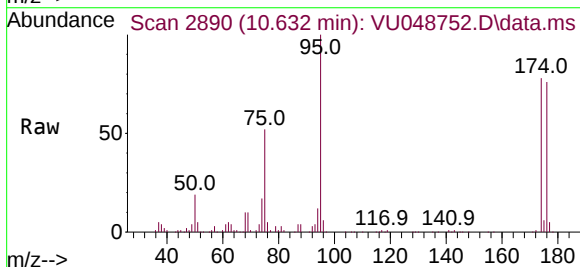
Instrument :
MSVOA_U
ClientSampleId :
WC-7

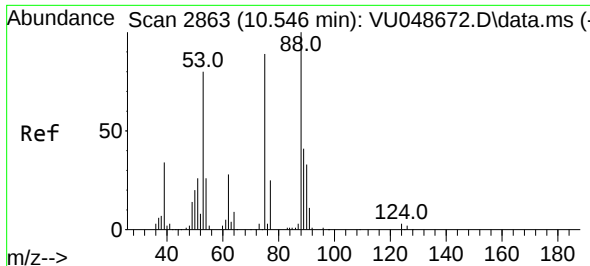
Tgt Ion: 43	Resp: 235
Ion Ratio	Lower Upper
43 100	
70 0.0	35.8 53.6#
55 0.0	21.1 31.7#
61 0.0	20.2 30.4#



#76
1,2,3-Trichloropropane
Concen: 15.110 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.190 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 75	Resp: 90452
Ion Ratio	Lower Upper
75 100	
77 1.0	14.8 44.3#

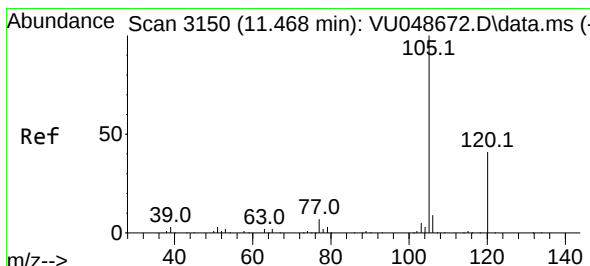
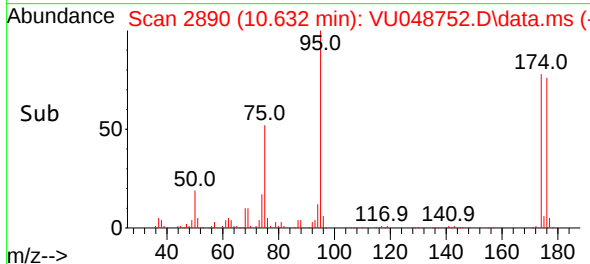
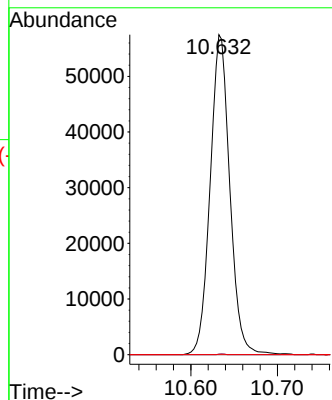
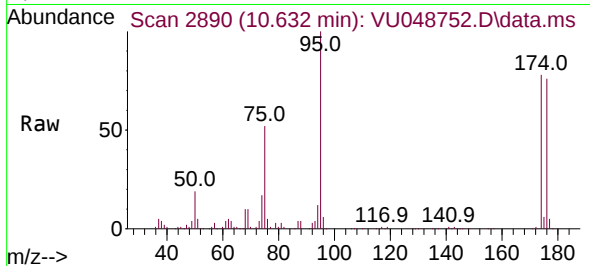




#81
trans-1,4-Dichloro-2-butene
Concen: 54.863 ug/l
RT: 10.632 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

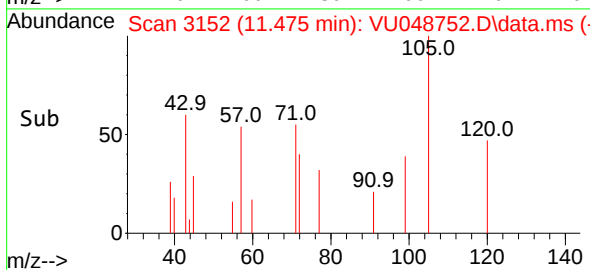
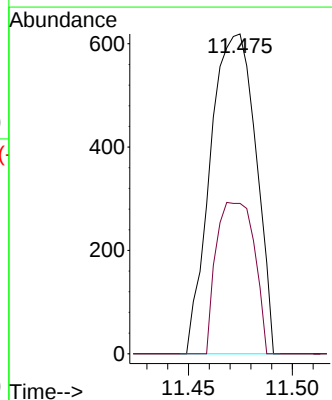
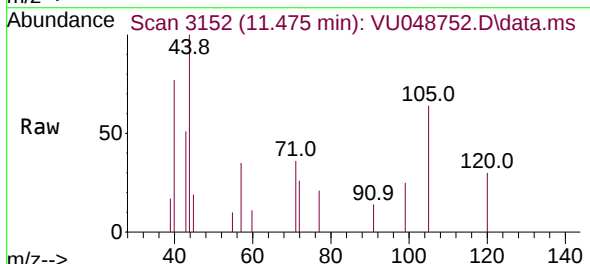
Instrument :
MSVOA_U
ClientSampleId :
WC-7

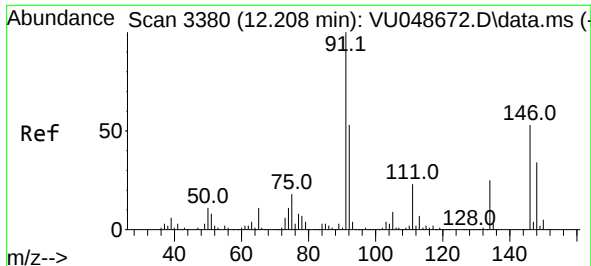
Tgt Ion: 75 Resp: 90452
Ion Ratio Lower Upper
75 100
53 0.1 72.5 108.7#
89 0.0 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.269 ug/l
RT: 11.475 min Scan# 3152
Delta R.T. 0.007 min
Lab File: VU048752.D
Acq: 31 May 2022 20:40

Tgt Ion: 105 Resp: 940
Ion Ratio Lower Upper
105 100
120 39.6 22.5 67.5





#89

n-Butylbenzene

Concen: 2.195 ug/l

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Instrument :

MSVOA_U

ClientSampleId :

WC-7

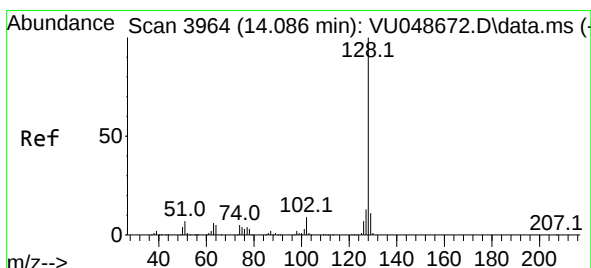
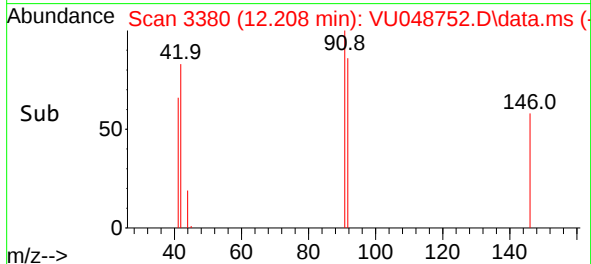
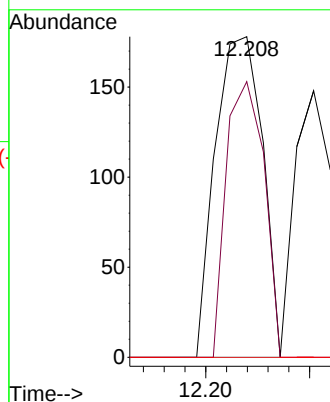
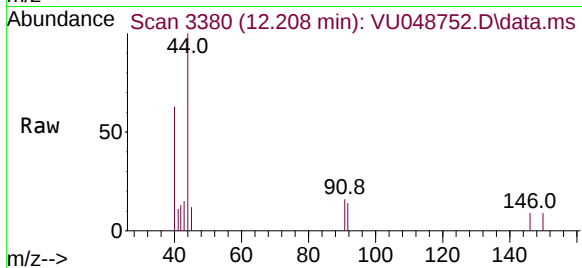
Tgt Ion: 91 Resp: 112

Ion Ratio Lower Upper

91 100

92 68.8 25.9 77.8

134 0.0 12.5 37.5#



#95

Naphthalene

Concen: 2.899 ug/l

RT: 14.095 min Scan# 3967

Delta R.T. 0.009 min

Lab File: VU048752.D

Acq: 31 May 2022 20:40

Tgt Ion:128 Resp: 5640

Ion Ratio Lower Upper

128 100

127 11.0 10.2 15.4

129 5.9 8.7 13.1#

