

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU060722\
 Data File : VU048905.D
 Acq On : 07 Jun 2022 13:27
 Operator : SY/MD
 Sample : N3165-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 59BR-20220531

Quant Time: Jun 08 04:51:18 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)

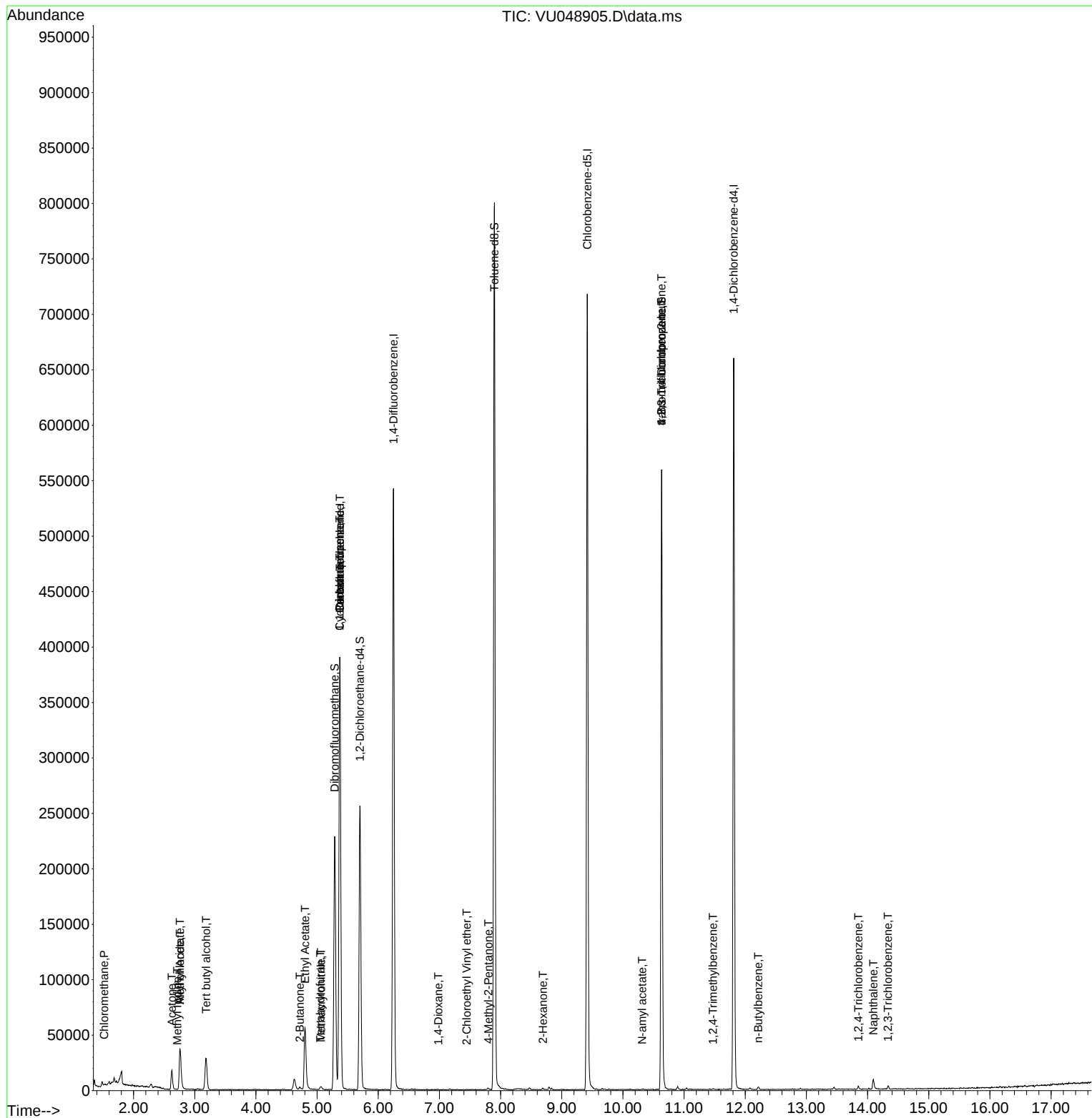
Internal Standards						
1) Pentafluorobenzene	5.372	168	265822	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	432569	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	397598	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	178664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.700	65	195340	48.931	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.860%		
35) Dibromofluoromethane	5.288	113	147896	47.924	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.840%		
50) Toluene-d8	7.899	98	524680	47.429	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	94.860%		
62) 4-Bromofluorobenzene	10.632	95	188178	44.979	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.960%		
Target Compounds						Qvalue
3) Chloromethane	1.520	50	840	0.214	ug/l	91
5) Bromomethane	1.848	94	179	Below Cal	#	73
6) Chloroethane	1.951	64	118	Below Cal	#	43
10) Methyl Iodide	2.716	142	82	3.023	ug/l #	37
11) Tert butyl alcohol	3.186	59	17745	17.533	ug/l #	28
13) Acrolein	2.481	56	123	Below Cal	#	76
14) Allyl chloride	2.758	41	4770	0.910	ug/l #	65
16) Acetone	2.626	43	19014	9.346	ug/l	97
18) Methyl Acetate	2.758	43	11634	2.278	ug/l #	51
25) 2-Butanone	4.716	43	3445	1.179	ug/l	95
29) Tetrahydrofuran	5.054	42	1164	0.632	ug/l #	74
31) Cyclohexane	5.369	56	5656	1.124	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	22550	5.007	ug/l #	51
37) Ethyl Acetate	4.803	43	76372	13.413	ug/l	99
38) Carbon Tetrachloride	5.372	117	27797	5.379	ug/l #	18
41) Methacrylonitrile	5.067	41	1348	0.468	ug/l #	36
49) 1,4-Dioxane	6.983	88	51	0.615	ug/l #	24
51) 4-Methyl-2-Pentanone	7.800	43	1264	0.236	ug/l #	83
58) 2-Chloroethyl Vinyl ether	7.446	63	20	29.772	ug/l #	47
59) 2-Hexanone	8.693	43	1149	0.261	ug/l	92
74) N-amyl acetate	10.314	43	207	2.501	ug/l #	71
76) 1,2,3-Trichloropropane	10.632	75	97849	16.986	ug/l #	48
81) trans-1,4-Dichloro-2-b...	10.632	75	97849	61.674	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.475	105	632	1.244	ug/l	97
89) n-Butylbenzene	12.211	91	1289	2.304	ug/l #	82
93) 1,2,4-Trichlorobenzene	13.848	180	975	0.242	ug/l	97
95) Naphthalene	14.095	128	9346	3.164	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.333	180	1074	0.269	ug/l	91

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

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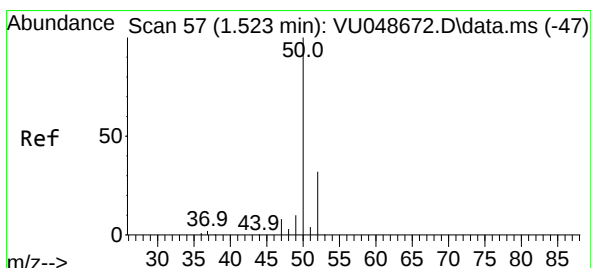
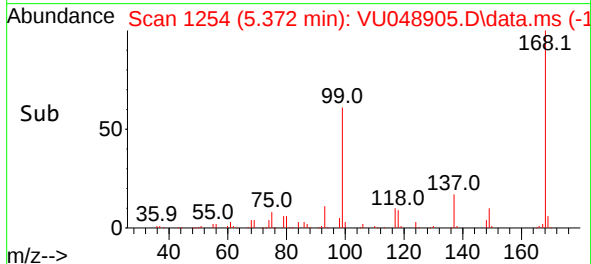
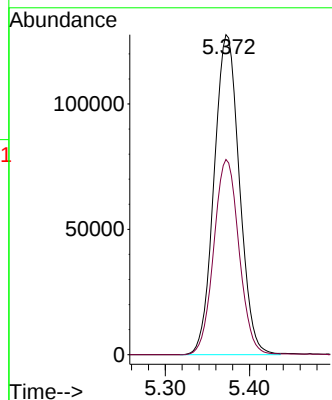
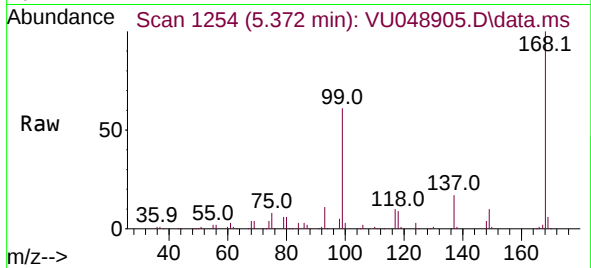




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

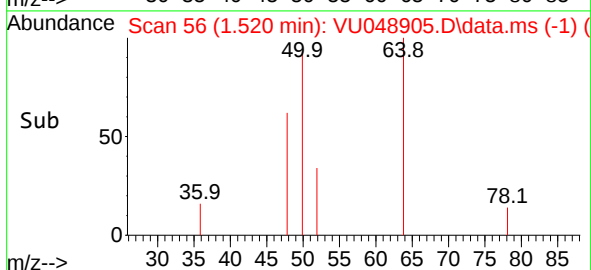
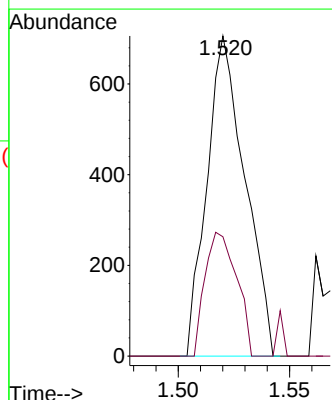
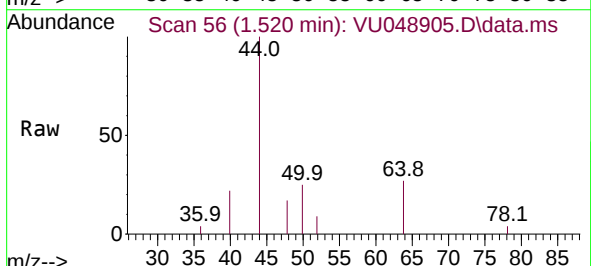
Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

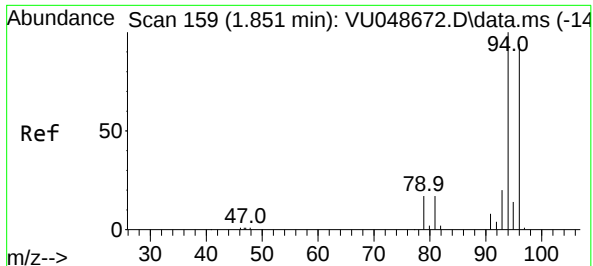
Tgt Ion:168 Resp: 265822
Ion Ratio Lower Upper
168 100
99 61.0 49.3 73.9



#3
Chloromethane
Concen: 0.214 ug/l
RT: 1.520 min Scan# 56
Delta R.T. -0.003 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 50 Resp: 840
Ion Ratio Lower Upper
50 100
52 37.3 25.7 38.5

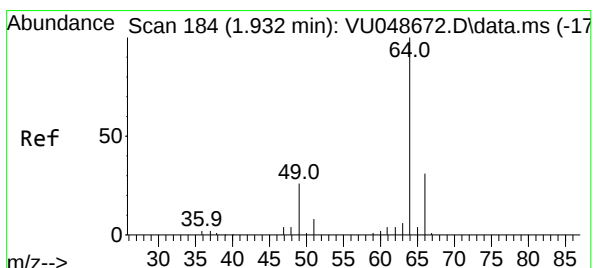
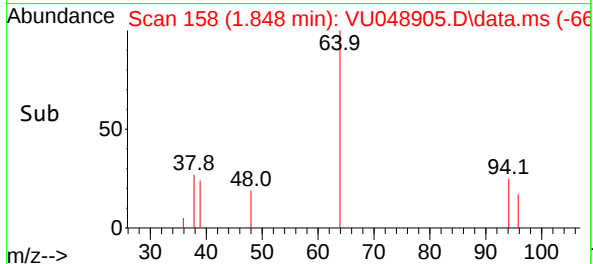
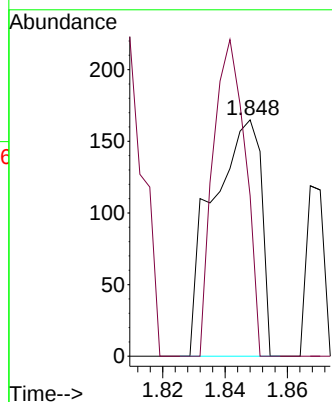
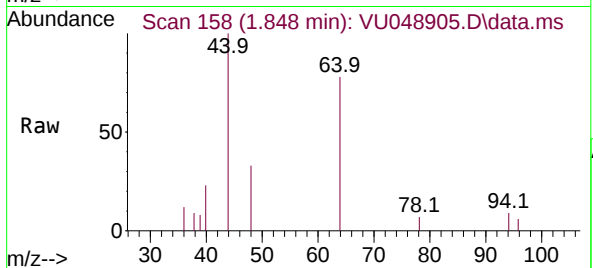




#5
Bromomethane
Concen: Below Cal
RT: 1.848 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

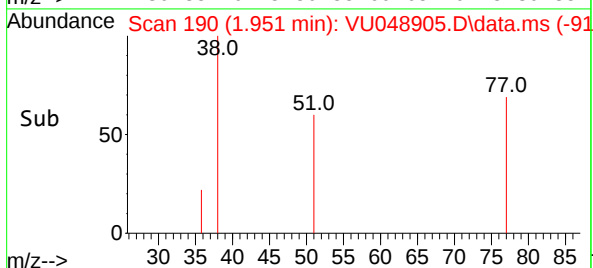
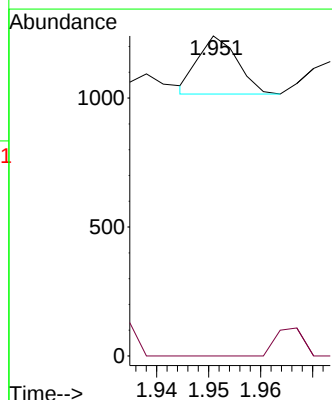
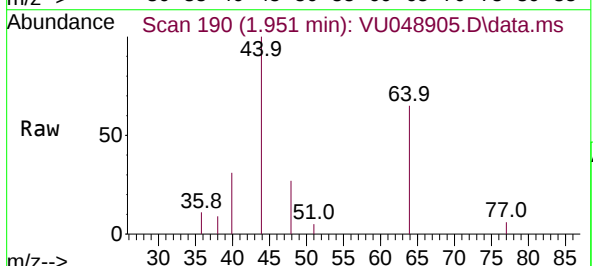
Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

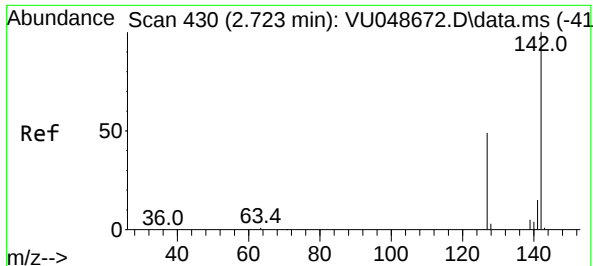
Tgt Ion: 94 Resp: 179
Ion Ratio Lower Upper
94 100
96 67.9 75.1 112.7#



#6
Chloroethane
Concen: Below Cal
RT: 1.951 min Scan# 190
Delta R.T. 0.019 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 64 Resp: 118
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#

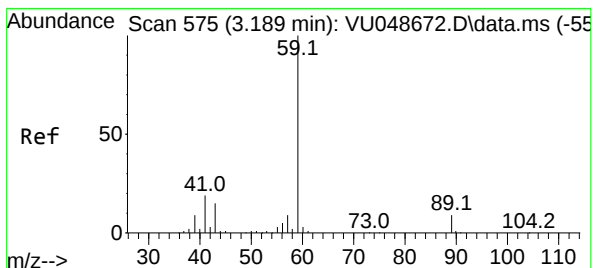
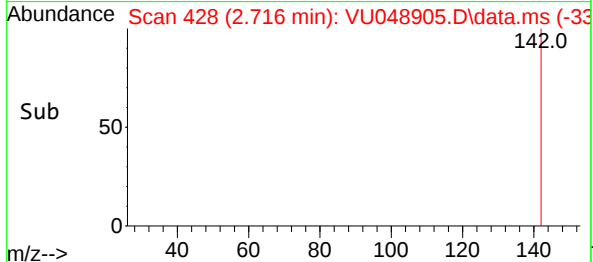
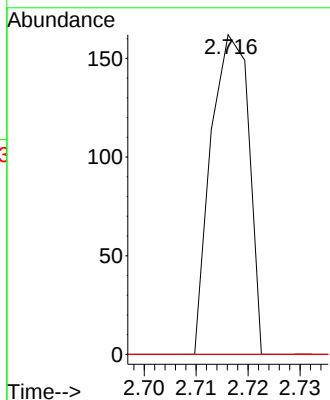
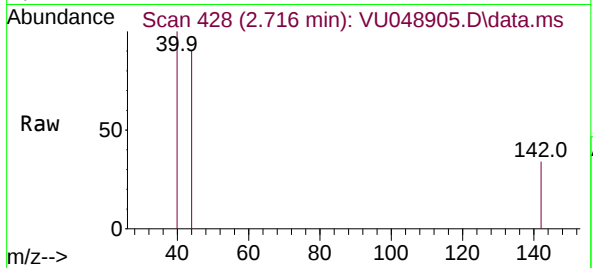




#10
Methyl Iodide
Concen: 3.023 ug/l
RT: 2.716 min Scan# 41
Delta R.T. -0.007 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

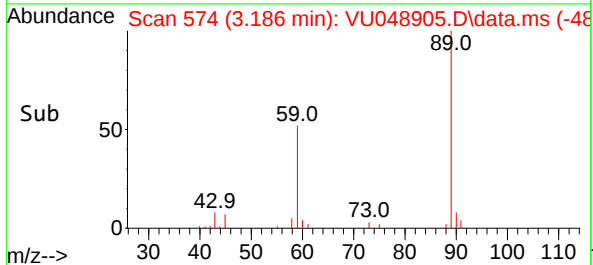
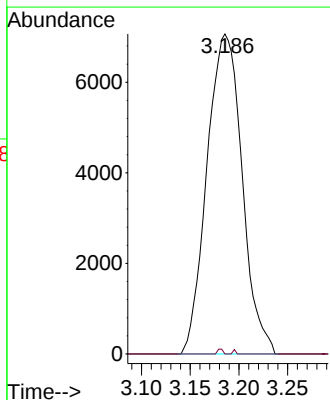
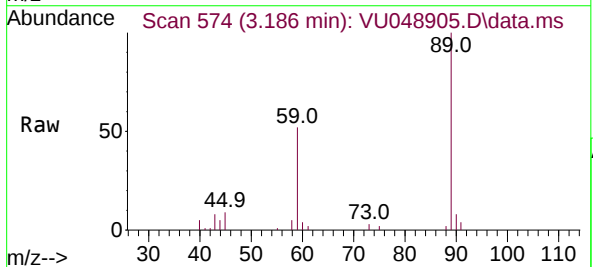
Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

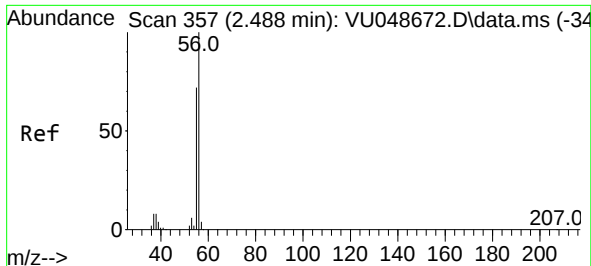
Tgt Ion:142 Resp: 82
Ion Ratio Lower Upper
142 100
127 0.0 38.4 57.6#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 17.533 ug/l
RT: 3.186 min Scan# 574
Delta R.T. -0.003 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 59 Resp: 17745
Ion Ratio Lower Upper
59 100
57 0.2 39.7 59.5#

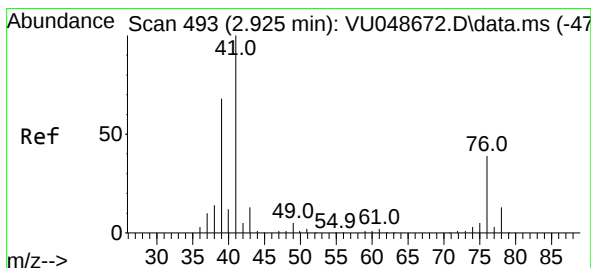
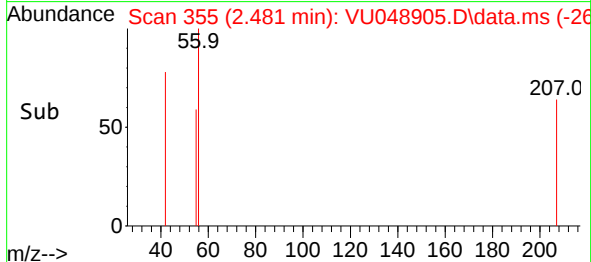
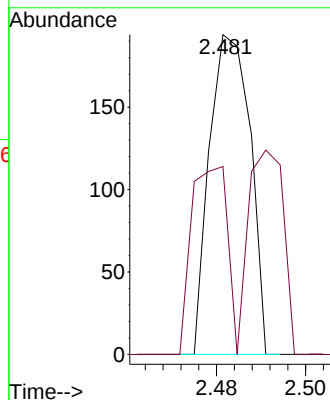
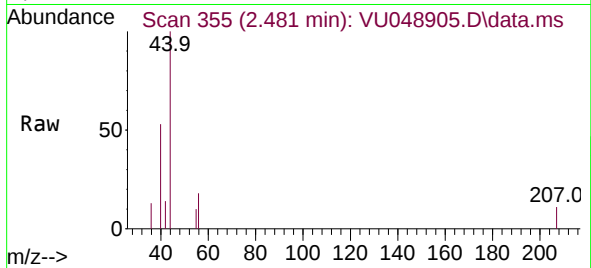




#13
Acrolein
Concen: Below Cal
RT: 2.481 min Scan# 311
Delta R.T. -0.007 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

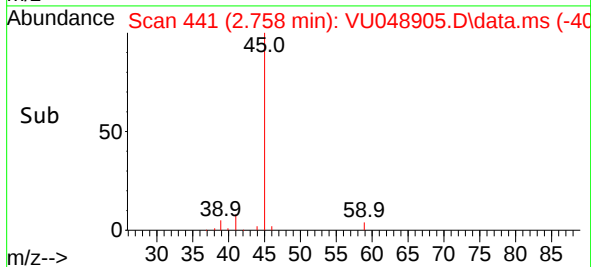
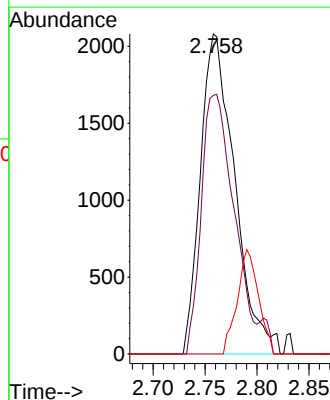
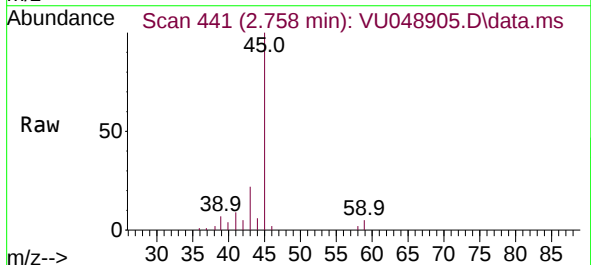
Instrument :
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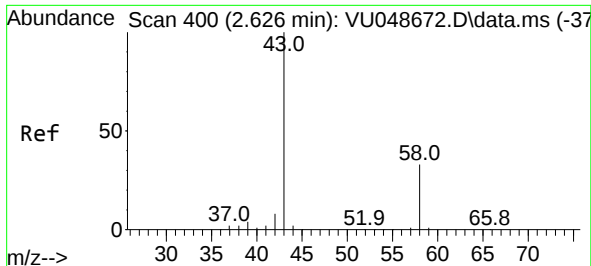
Tgt Ion: 56 Resp: 123
Ion Ratio Lower Upper
56 100
55 52.0 57.7 86.5#



#14
Allyl chloride
Concen: 0.910 ug/l
RT: 2.758 min Scan# 441
Delta R.T. -0.167 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 41 Resp: 4770
Ion Ratio Lower Upper
41 100
39 77.3 48.6 72.8#
76 0.0 27.0 40.4#





#16

Acetone

Concen: 9.346 ug/l

RT: 2.626 min Scan# 40

Delta R.T. -0.000 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

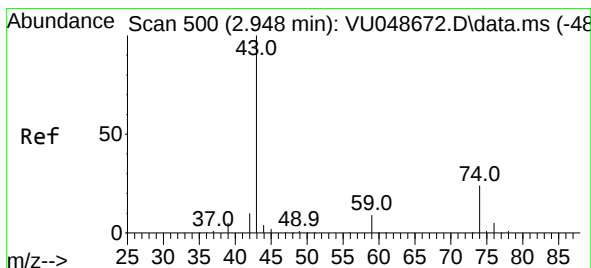
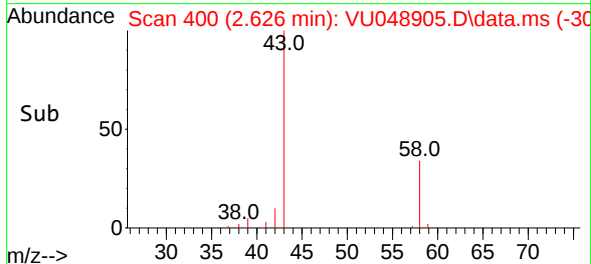
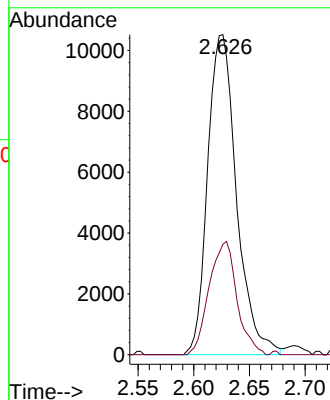
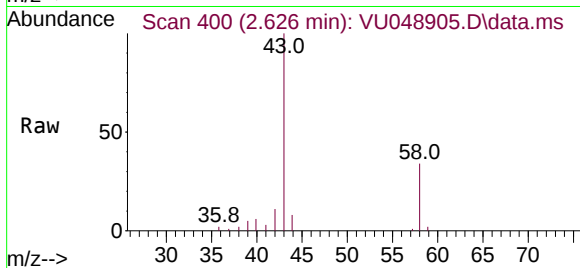
59BR-20220531

Tgt Ion: 43 Resp: 19014

Ion Ratio Lower Upper

43 100

58 34.5 26.3 39.5



#18

Methyl Acetate

Concen: 2.278 ug/l

RT: 2.758 min Scan# 441

Delta R.T. -0.190 min

Lab File: VU048905.D

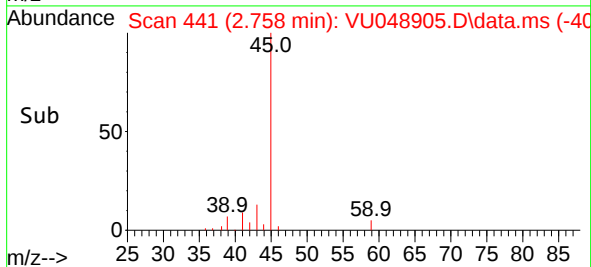
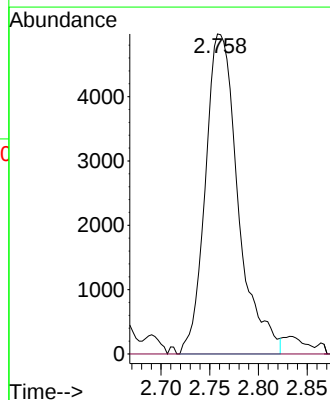
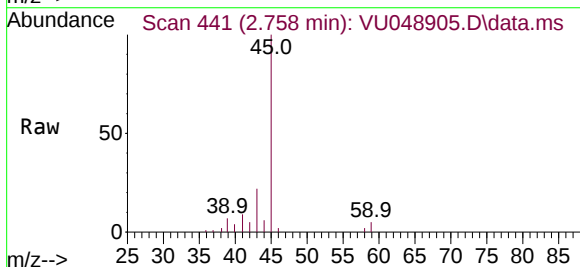
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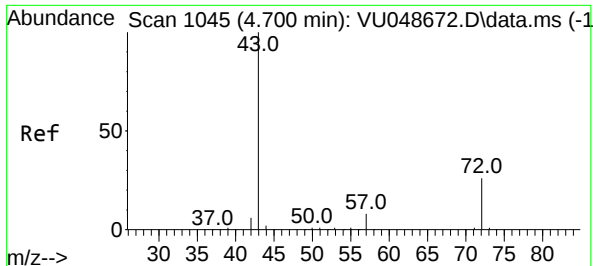
Tgt Ion: 43 Resp: 11634

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#





#25

2-Butanone

Concen: 1.179 ug/l

RT: 4.716 min Scan# 1050

Delta R.T. 0.016 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

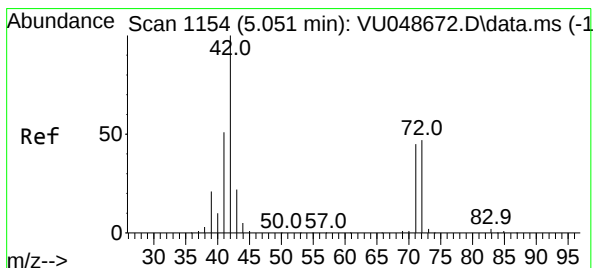
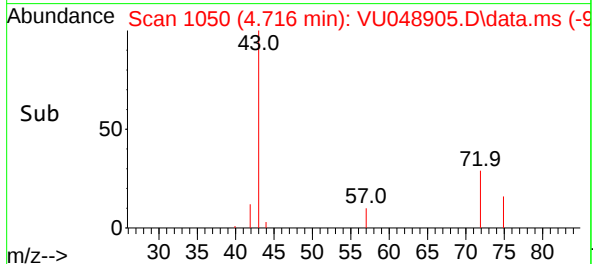
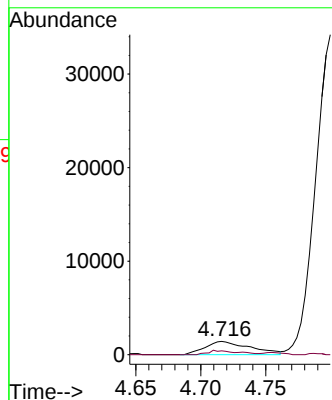
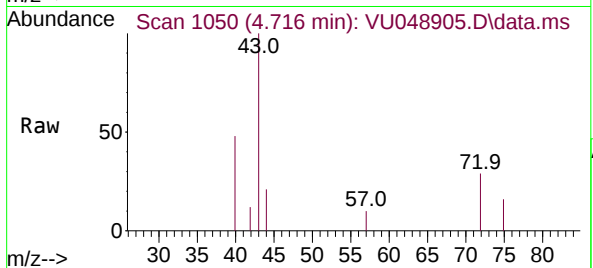
59BR-20220531

Tgt Ion: 43 Resp: 3445

Ion Ratio Lower Upper

43 100

72 29.1 21.1 31.7



#29

Tetrahydrofuran

Concen: 0.632 ug/l

RT: 5.054 min Scan# 1155

Delta R.T. 0.003 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

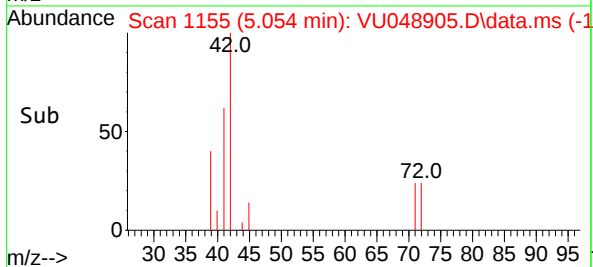
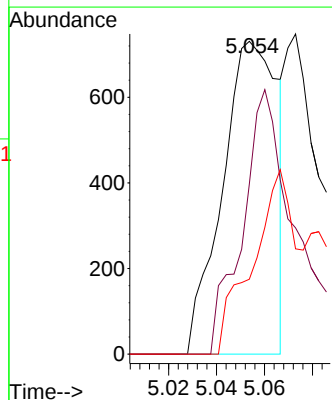
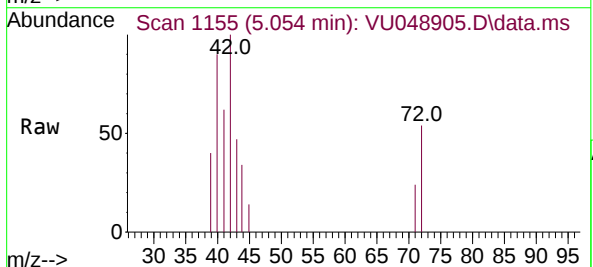
Tgt Ion: 42 Resp: 1164

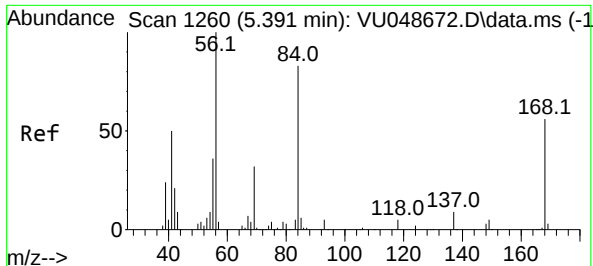
Ion Ratio Lower Upper

42 100

72 77.8 37.6 56.4

71 46.6 35.0 52.4





#31

Cyclohexane

Concen: 1.124 ug/l

RT: 5.369 min Scan# 1260

Delta R.T. -0.023 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

59BR-20220531

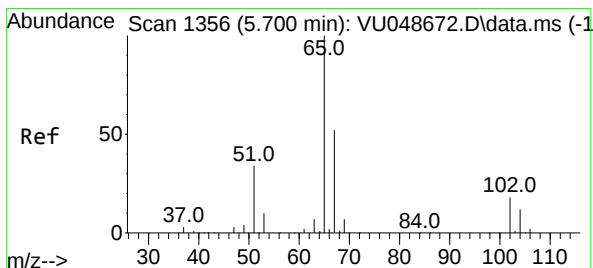
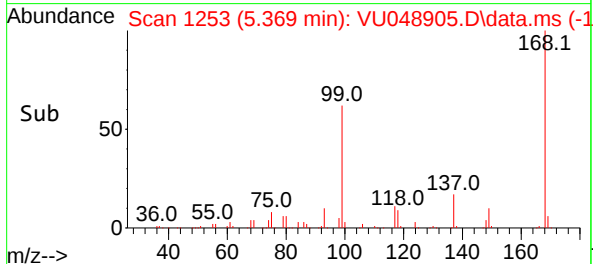
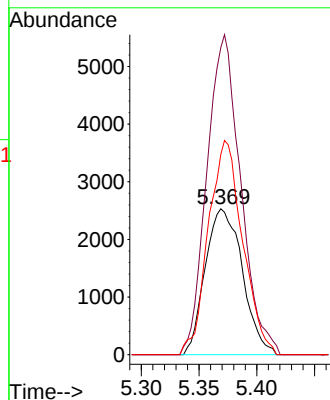
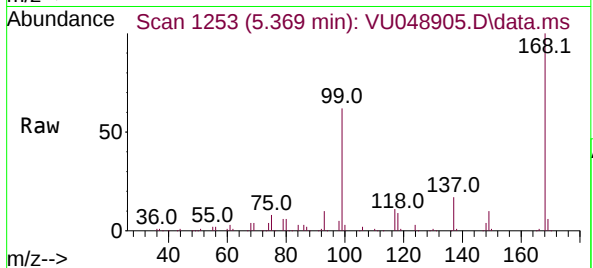
Tgt Ion: 56 Resp: 5656

Ion Ratio Lower Upper

56 100

69 210.6 25.6 38.4#

84 137.3 66.2 99.4#



#33

1,2-Dichloroethane-d4

Concen: 48.931 ug/l

RT: 5.700 min Scan# 1356

Delta R.T. -0.000 min

Lab File: VU048905.D

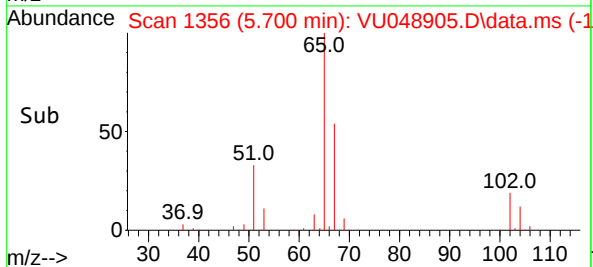
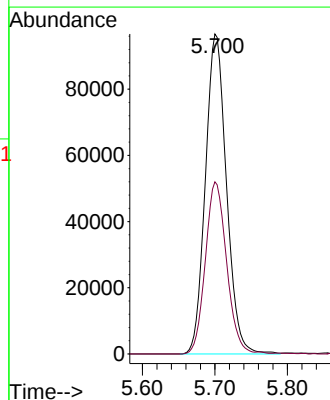
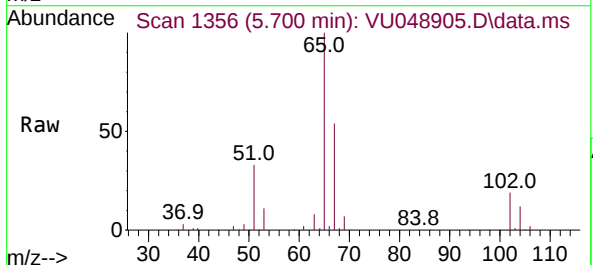
Acq: 07 Jun 2022 13:27

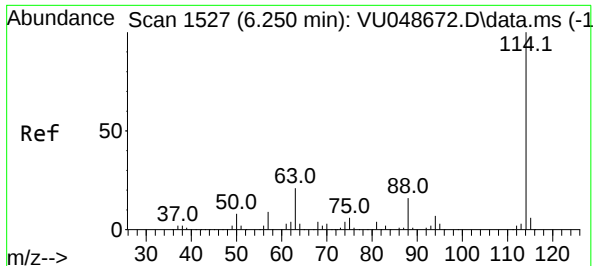
Tgt Ion: 65 Resp: 195340

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# 11

Delta R.T. -0.000 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

59BR-20220531

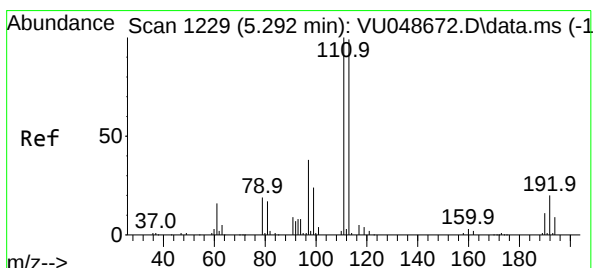
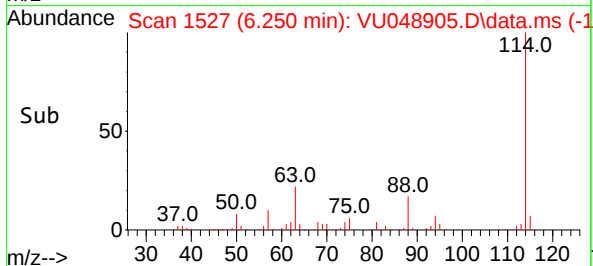
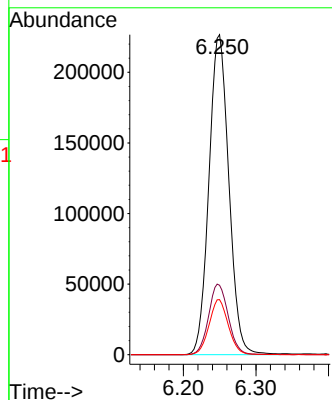
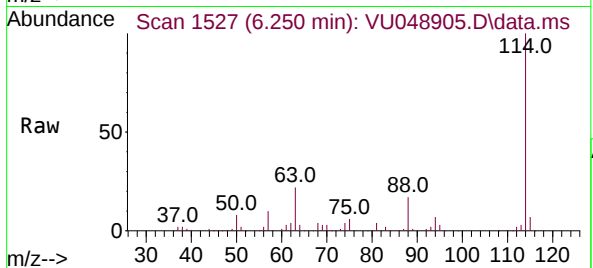
Tgt Ion:114 Resp: 432569

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.6

88 17.2 0.0 32.2



#35

Dibromofluoromethane

Concen: 47.924 ug/l

RT: 5.288 min Scan# 1228

Delta R.T. -0.003 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

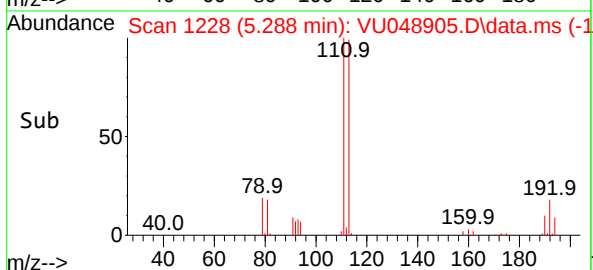
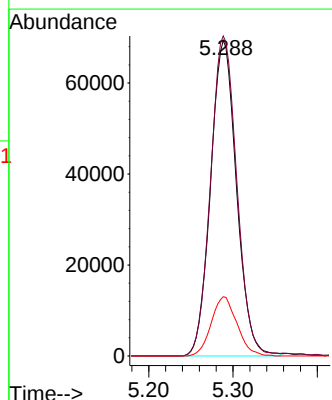
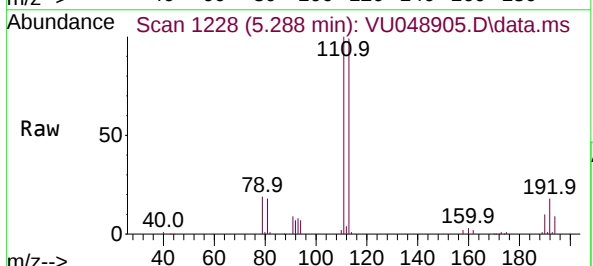
Tgt Ion:113 Resp: 147896

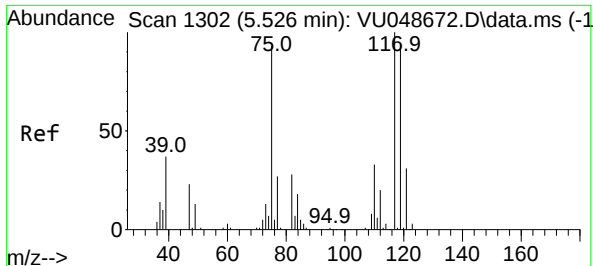
Ion Ratio Lower Upper

113 100

111 102.6 80.7 121.1

192 18.7 15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.007 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.158 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

59BR-20220531

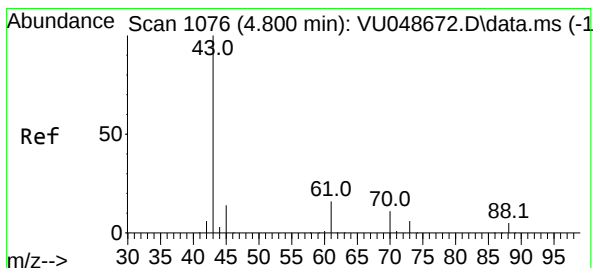
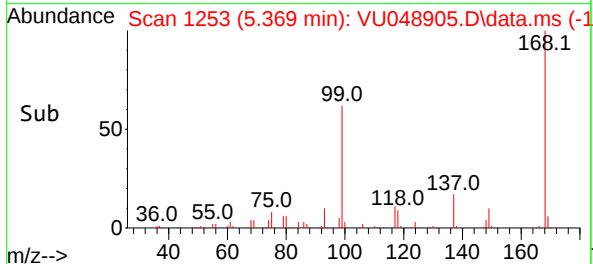
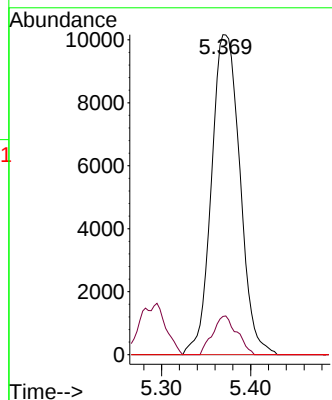
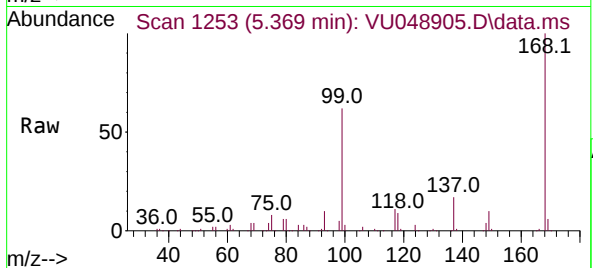
Tgt Ion: 75 Resp: 22550

Ion Ratio Lower Upper

75 100

110 10.3 17.4 52.3#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 13.413 ug/l

RT: 4.803 min Scan# 1077

Delta R.T. 0.003 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

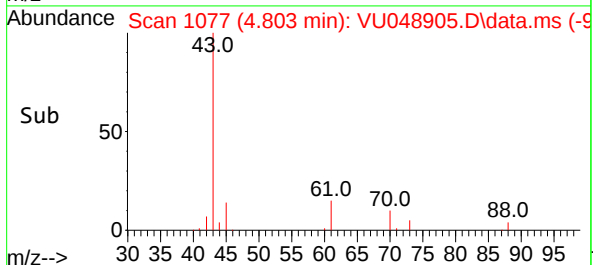
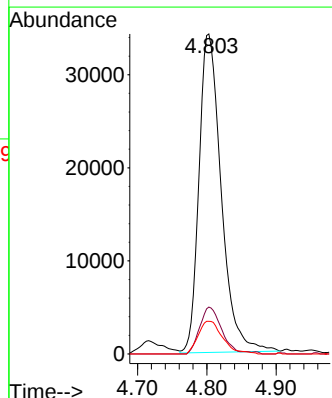
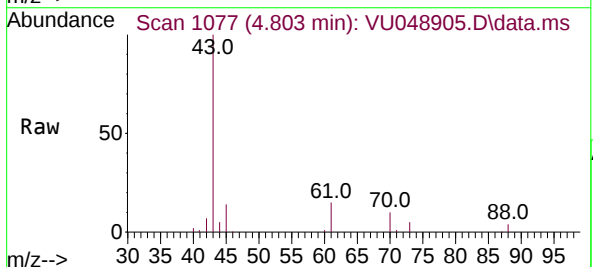
Tgt Ion: 43 Resp: 76372

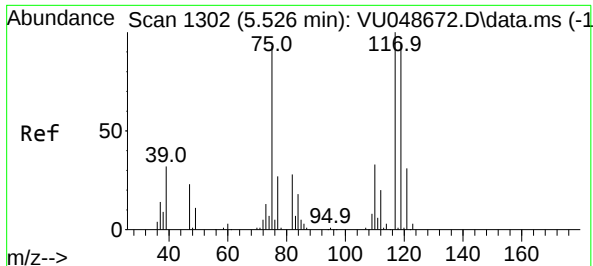
Ion Ratio Lower Upper

43 100

61 14.5 11.7 17.5

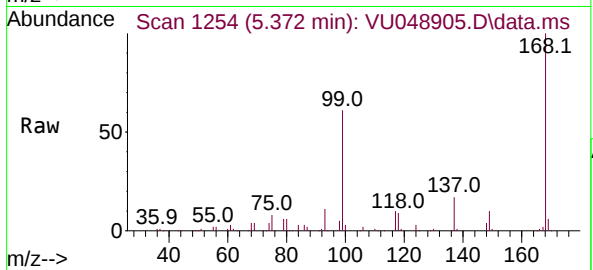
70 11.2 8.4 12.6



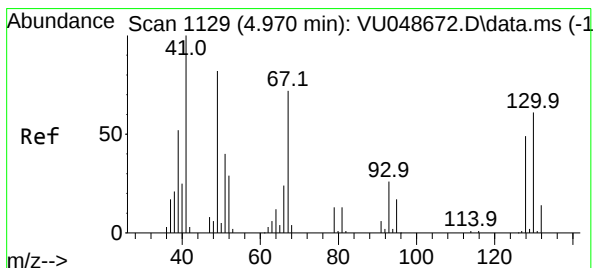
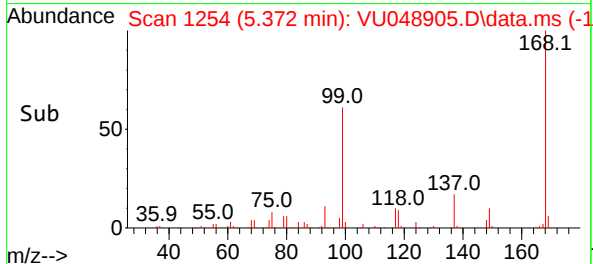
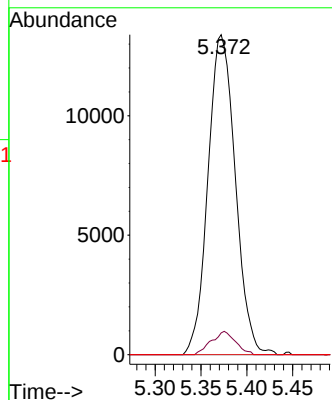


#38
Carbon Tetrachloride
Concen: 5.379 ug/l
RT: 5.372 min Scan# 1159
Delta R.T. -0.154 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

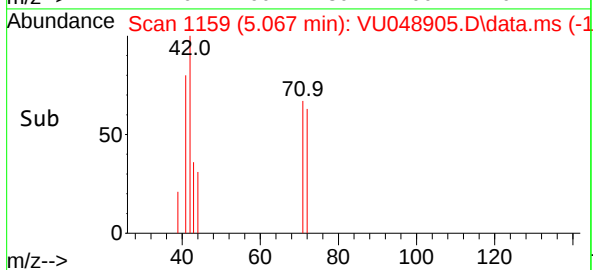
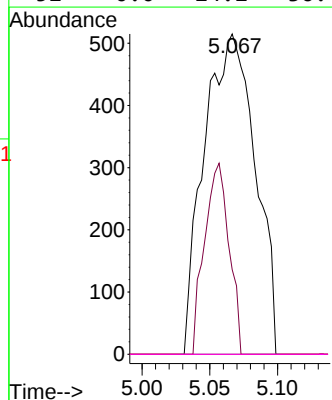
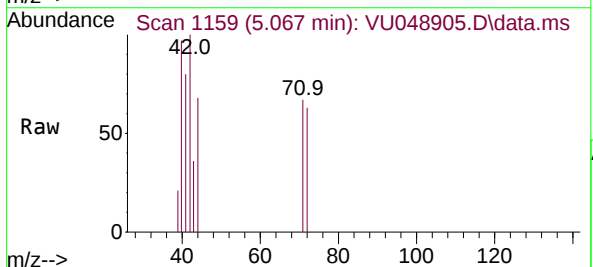


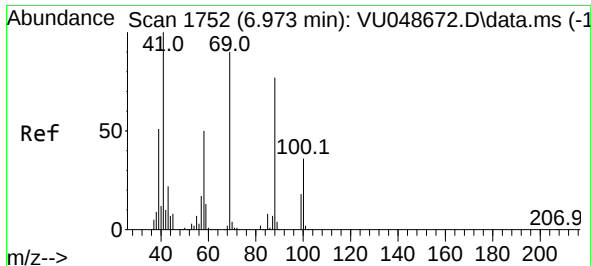
Tgt Ion:117 Resp: 27797
Ion Ratio Lower Upper
117 100
119 6.8 75.4 113.2#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 0.468 ug/l
RT: 5.067 min Scan# 1159
Delta R.T. 0.096 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 41 Resp: 1348
Ion Ratio Lower Upper
41 100
39 28.6 42.6 64.0#
67 0.0 61.0 91.4#
52 0.0 24.2 36.4#





#49

1,4-Dioxane

Concen: 0.615 ug/l

RT: 6.983 min Scan# 1

Delta R.T. 0.010 min

Lab File: VU048905.D

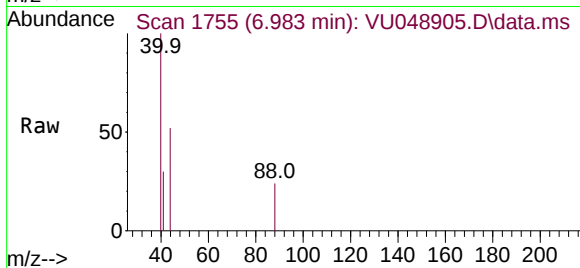
Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

59BR-20220531



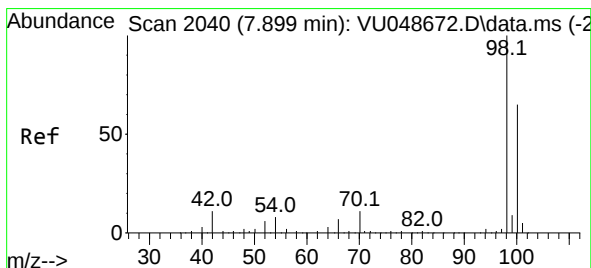
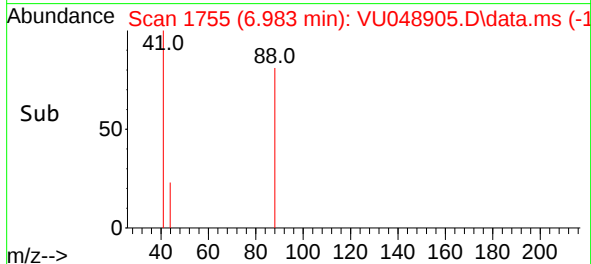
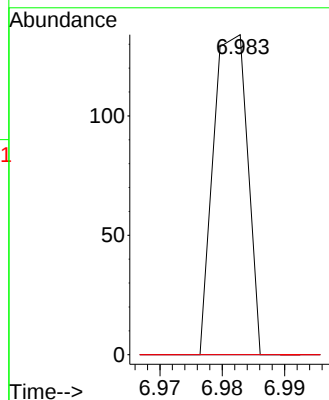
Tgt Ion: 88 Resp: 51

Ion Ratio Lower Upper

88 100

43 0.0 24.6 36.8#

58 0.0 54.7 82.1#



#50

Toluene-d8

Concen: 47.429 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. -0.000 min

Lab File: VU048905.D

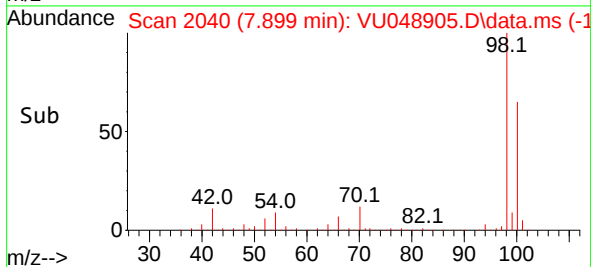
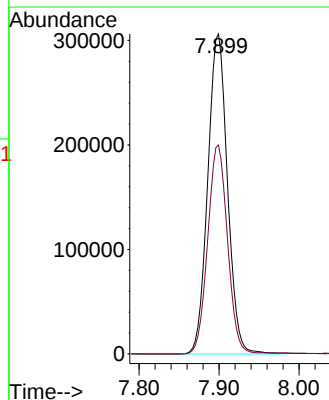
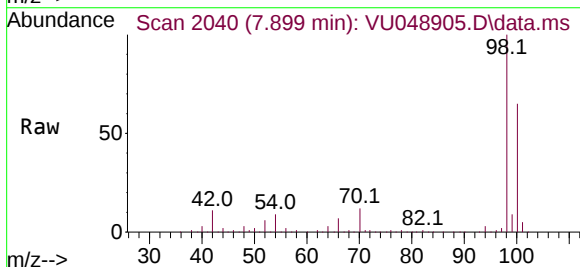
Acq: 07 Jun 2022 13:27

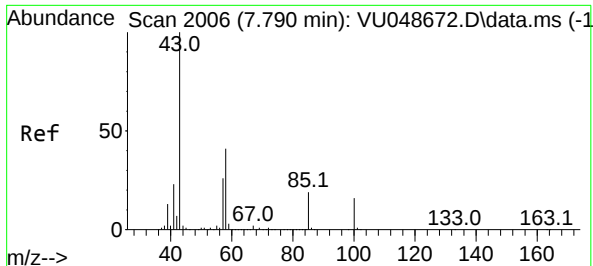
Tgt Ion: 98 Resp: 524680

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 0.236 ug/l

RT: 7.800 min Scan# 2006

Delta R.T. 0.010 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

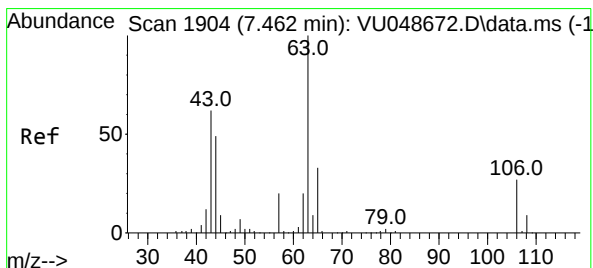
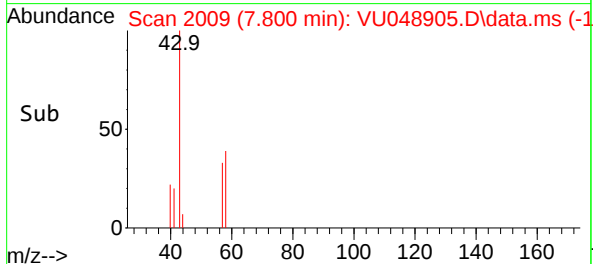
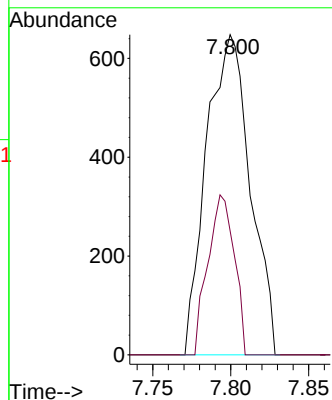
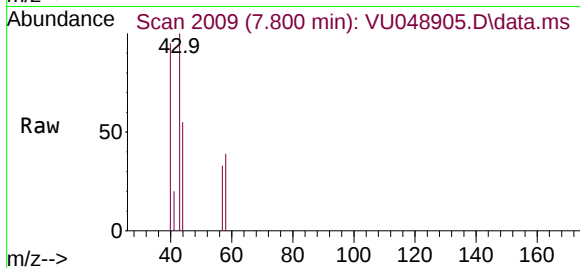
59BR-20220531

Tgt Ion: 43 Resp: 1264

Ion Ratio Lower Upper

43 100

58 30.1 32.7 49.1#



#58

2-Chloroethyl Vinyl ether

Concen: 29.772 ug/l

RT: 7.446 min Scan# 1899

Delta R.T. -0.016 min

Lab File: VU048905.D

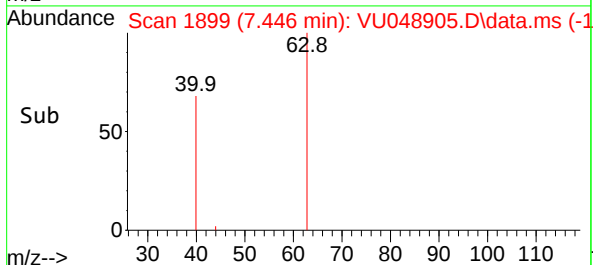
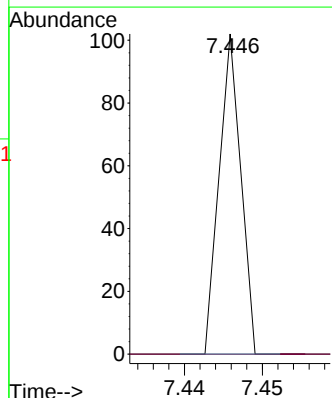
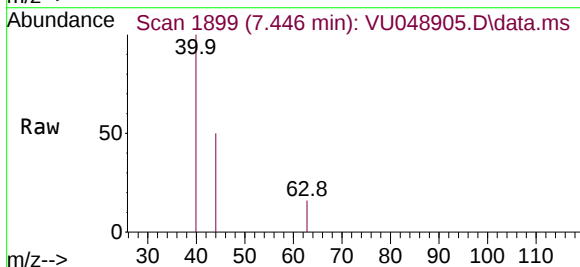
Acq: 07 Jun 2022 13:27

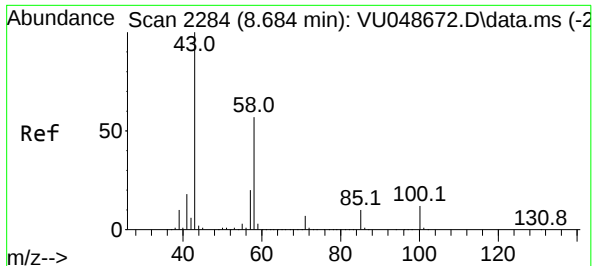
Tgt Ion: 63 Resp: 20

Ion Ratio Lower Upper

63 100

106 0.0 22.2 33.2#





#59

2-Hexanone

Concen: 0.261 ug/l

RT: 8.693 min Scan# 21

Delta R.T. 0.010 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Instrument :

MSVOA_U

ClientSampleId :

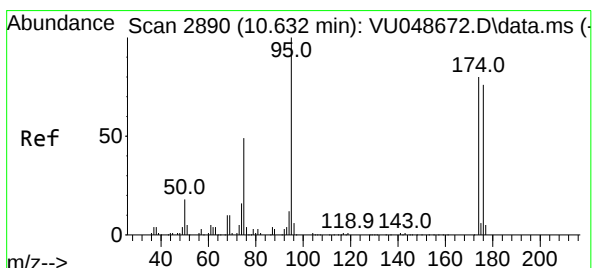
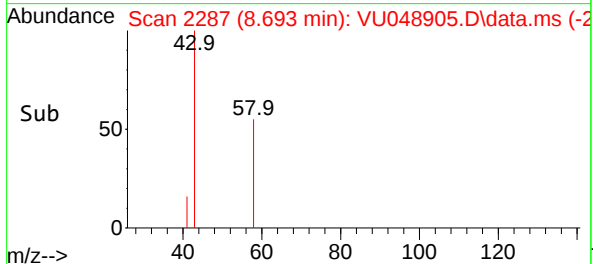
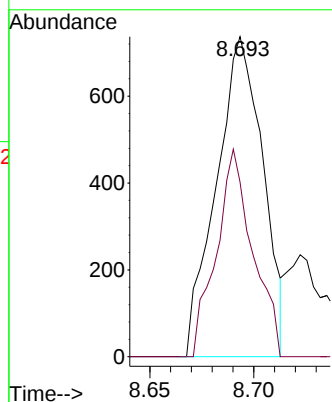
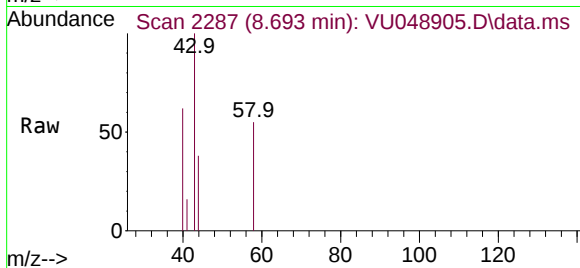
59BR-20220531

Tgt Ion: 43 Resp: 1149

Ion Ratio Lower Upper

43 100

58 50.8 28.2 84.6



#62

4-Bromofluorobenzene

Concen: 44.979 ug/l

RT: 10.632 min Scan# 2890

Delta R.T. -0.000 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

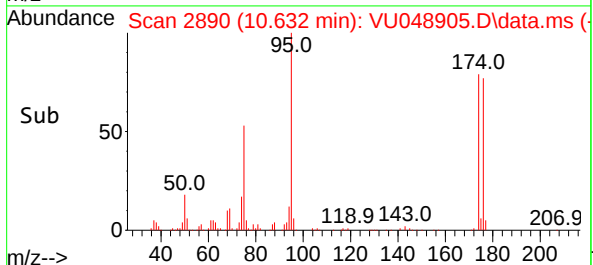
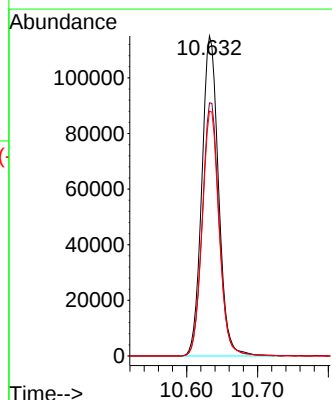
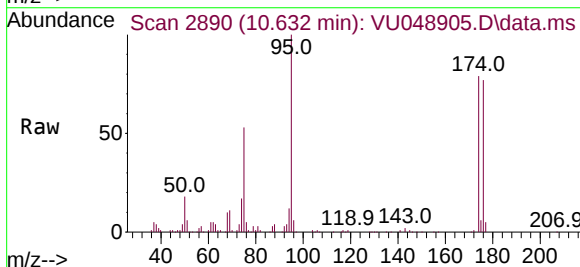
Tgt Ion: 95 Resp: 188178

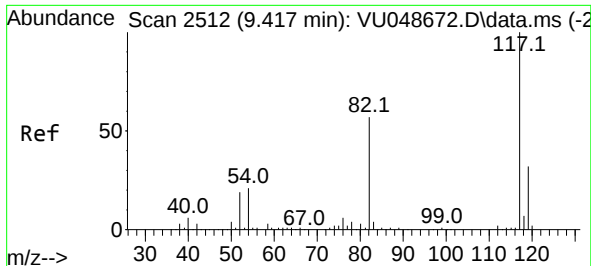
Ion Ratio Lower Upper

95 100

174 79.9 0.0 159.4

176 77.2 0.0 152.4

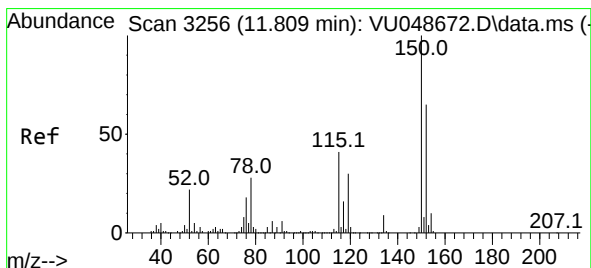
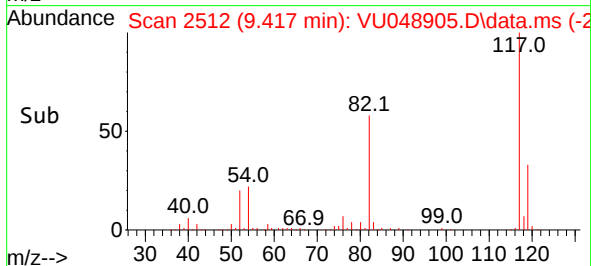
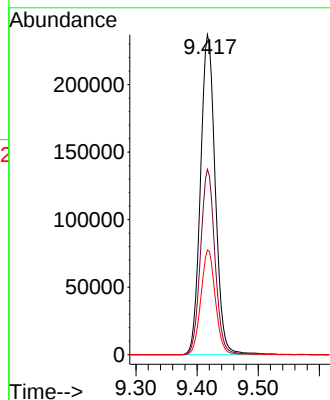
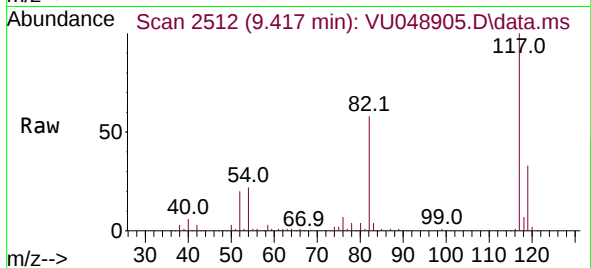




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

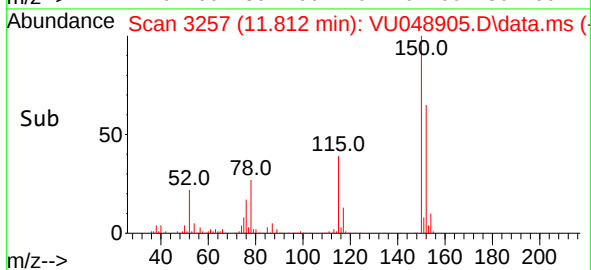
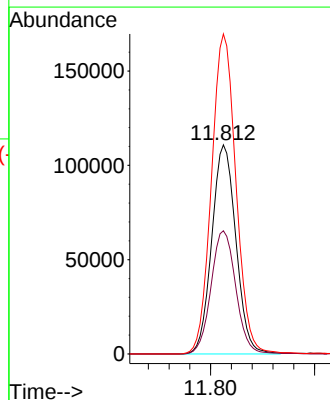
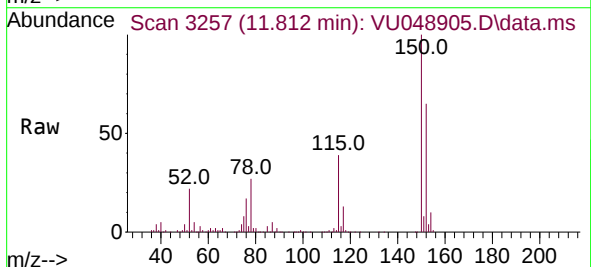
Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

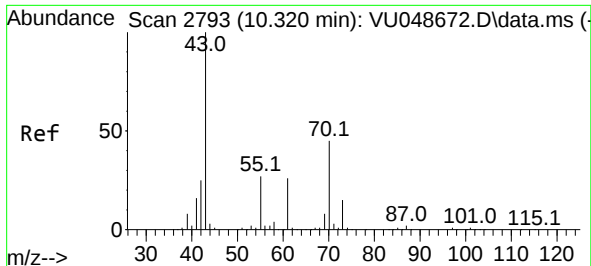
Tgt Ion:117 Resp: 397598
Ion Ratio Lower Upper
117 100
82 58.0 45.3 67.9
119 32.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. 0.003 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion:152 Resp: 178664
Ion Ratio Lower Upper
152 100
115 60.5 41.8 125.4
150 155.3 0.0 341.0

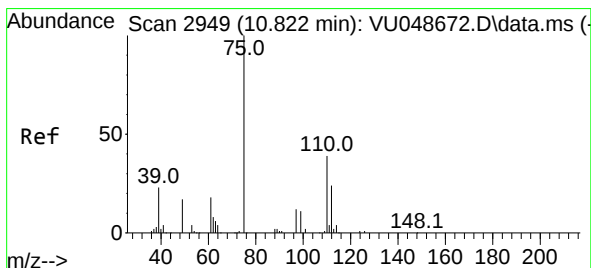
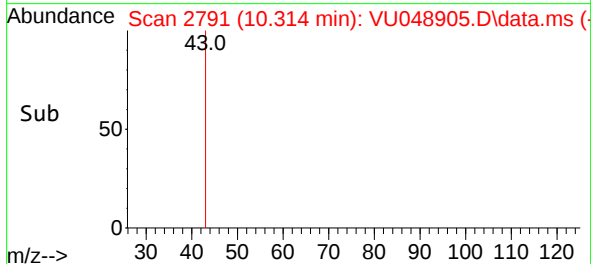
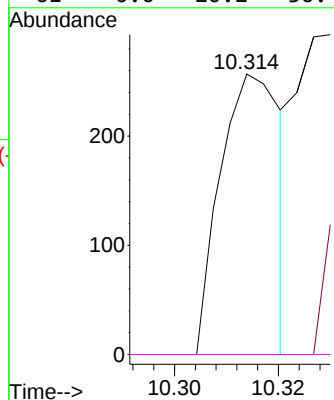
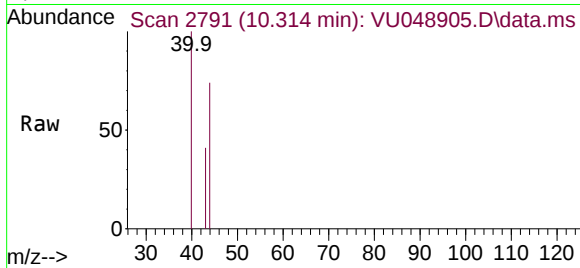




#74
N-amy1 acetate
Concen: 2.501 ug/l
RT: 10.314 min Scan# 21
Delta R.T. -0.006 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

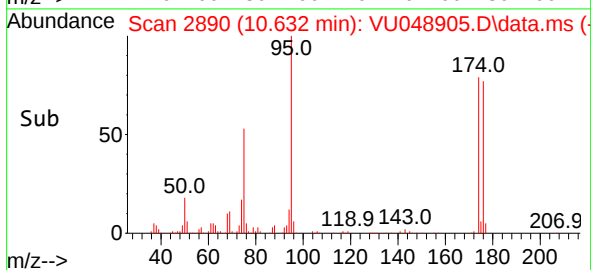
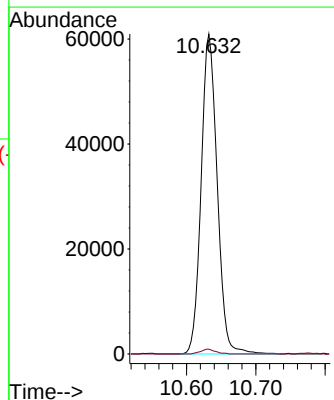
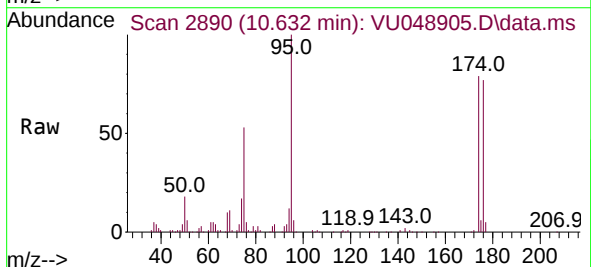
Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

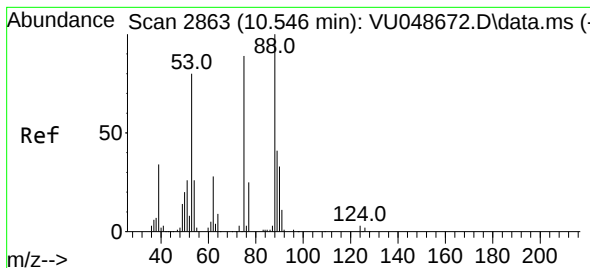
Tgt Ion: 43	Resp: 207
Ion Ratio	Lower Upper
43 100	
70 42.5	35.8 53.6
55 0.0	21.1 31.7#
61 0.0	20.2 30.4#



#76
1,2,3-Trichloropropane
Concen: 16.986 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.190 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 75	Resp: 97849
Ion Ratio	Lower Upper
75 100	
77 1.4	14.8 44.3#

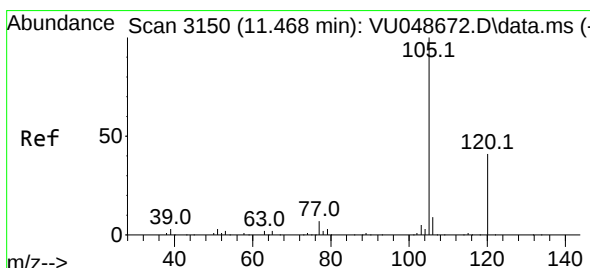
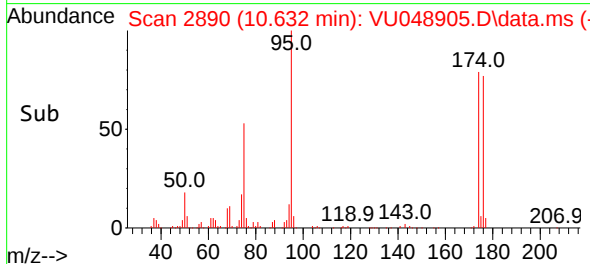
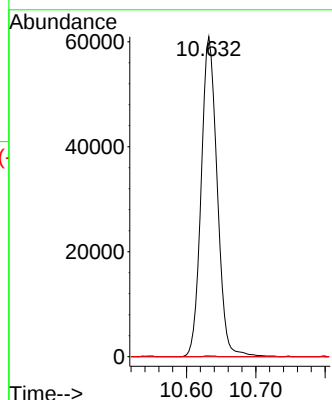
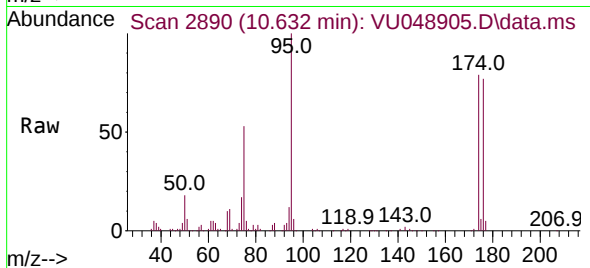




#81
trans-1,4-Dichloro-2-butene
Concen: 61.674 ug/l
RT: 10.632 min Scan# 21
Delta R.T. 0.087 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

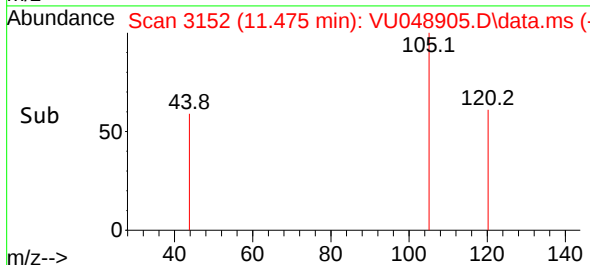
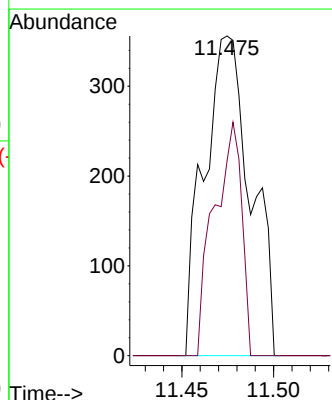
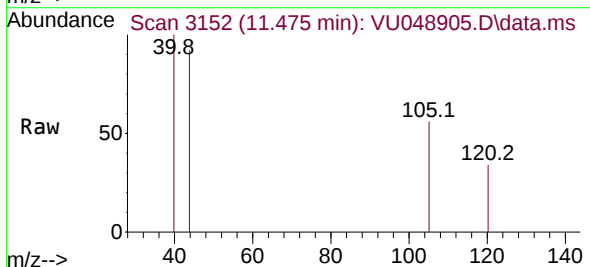
Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

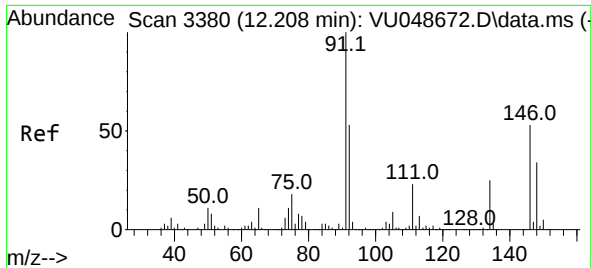
Tgt Ion: 75 Resp: 97849
Ion Ratio Lower Upper
75 100
53 0.2 72.5 108.7#
89 0.0 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.244 ug/l
RT: 11.475 min Scan# 3152
Delta R.T. 0.007 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 105 Resp: 632
Ion Ratio Lower Upper
105 100
120 43.0 22.5 67.5

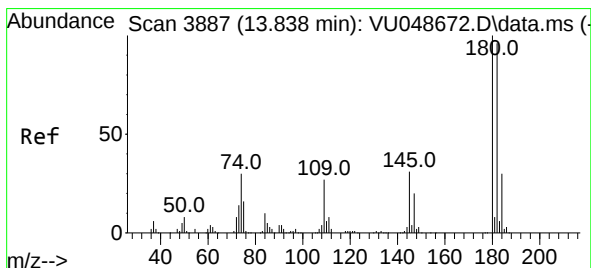
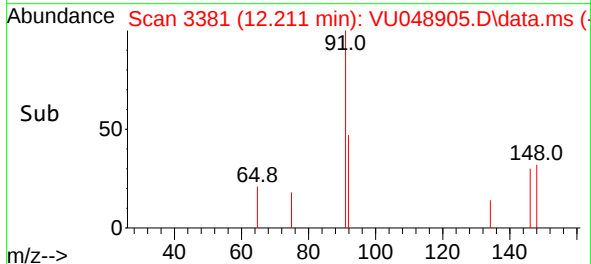
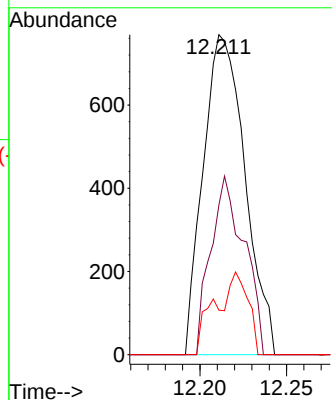
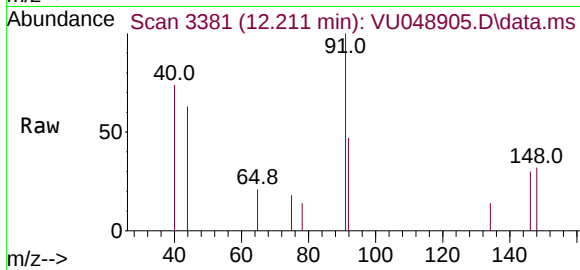




#89
n-Butylbenzene
Concen: 2.304 ug/l
RT: 12.211 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

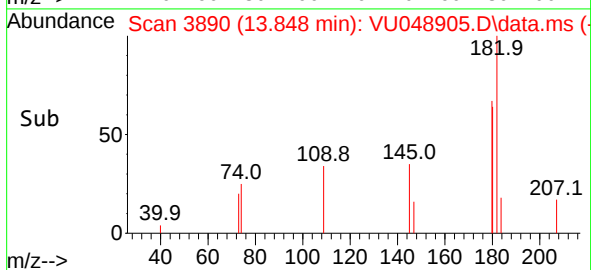
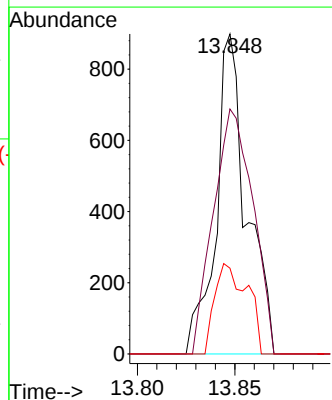
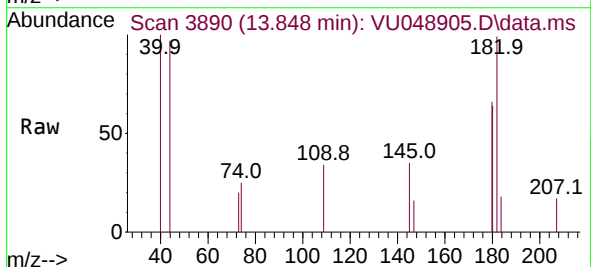
Instrument :
MSVOA_U
ClientSampleId :
59BR-20220531

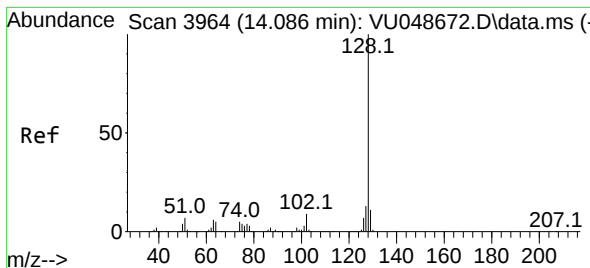
Tgt Ion: 91 Resp: 1289
Ion Ratio Lower Upper
91 100
92 44.8 25.9 77.8
134 8.4 12.5 37.5#



#93
1,2,4-Trichlorobenzene
Concen: 0.242 ug/l
RT: 13.848 min Scan# 3890
Delta R.T. 0.010 min
Lab File: VU048905.D
Acq: 07 Jun 2022 13:27

Tgt Ion: 180 Resp: 975
Ion Ratio Lower Upper
180 100
182 99.7 48.3 144.9
145 30.2 15.6 46.7





#95

Naphthalene

Concen: 3.164 ug/l

RT: 14.095 min Scan# 3967

Delta R.T. 0.009 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

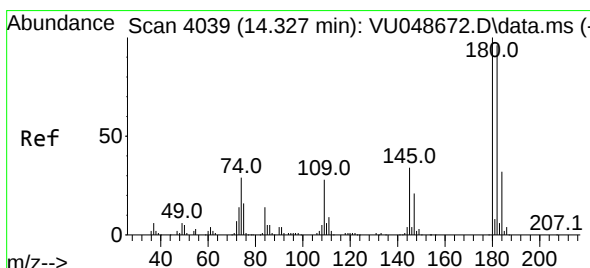
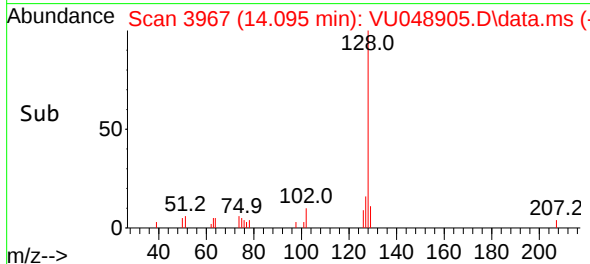
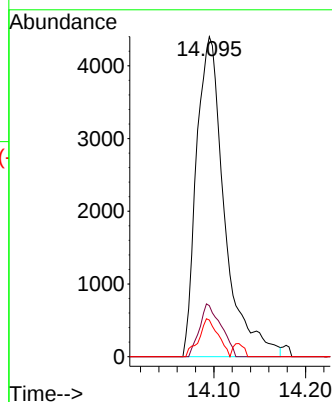
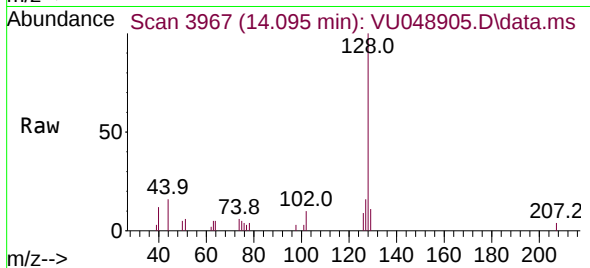
Instrument :

MSVOA_U

ClientSampleId :

59BR-20220531

Tgt Ion:128	Resp:	9346
Ion Ratio	Lower	Upper
128	100	
127	12.6	10.2 15.4
129	8.0	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.269 ug/l

RT: 14.333 min Scan# 4041

Delta R.T. 0.006 min

Lab File: VU048905.D

Acq: 07 Jun 2022 13:27

Tgt Ion:180	Resp:	1074
Ion Ratio	Lower	Upper
180	100	
182	102.5	47.4 142.2
145	39.3	16.6 49.8

