

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111021\
 Data File : VU045698.D
 Acq On : 10 Nov 2021 19:13
 Operator : SY/MD
 Sample : M4593-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 11 02:32:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U110521W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 05 13:35:16 2021
 Response via : Initial Calibration

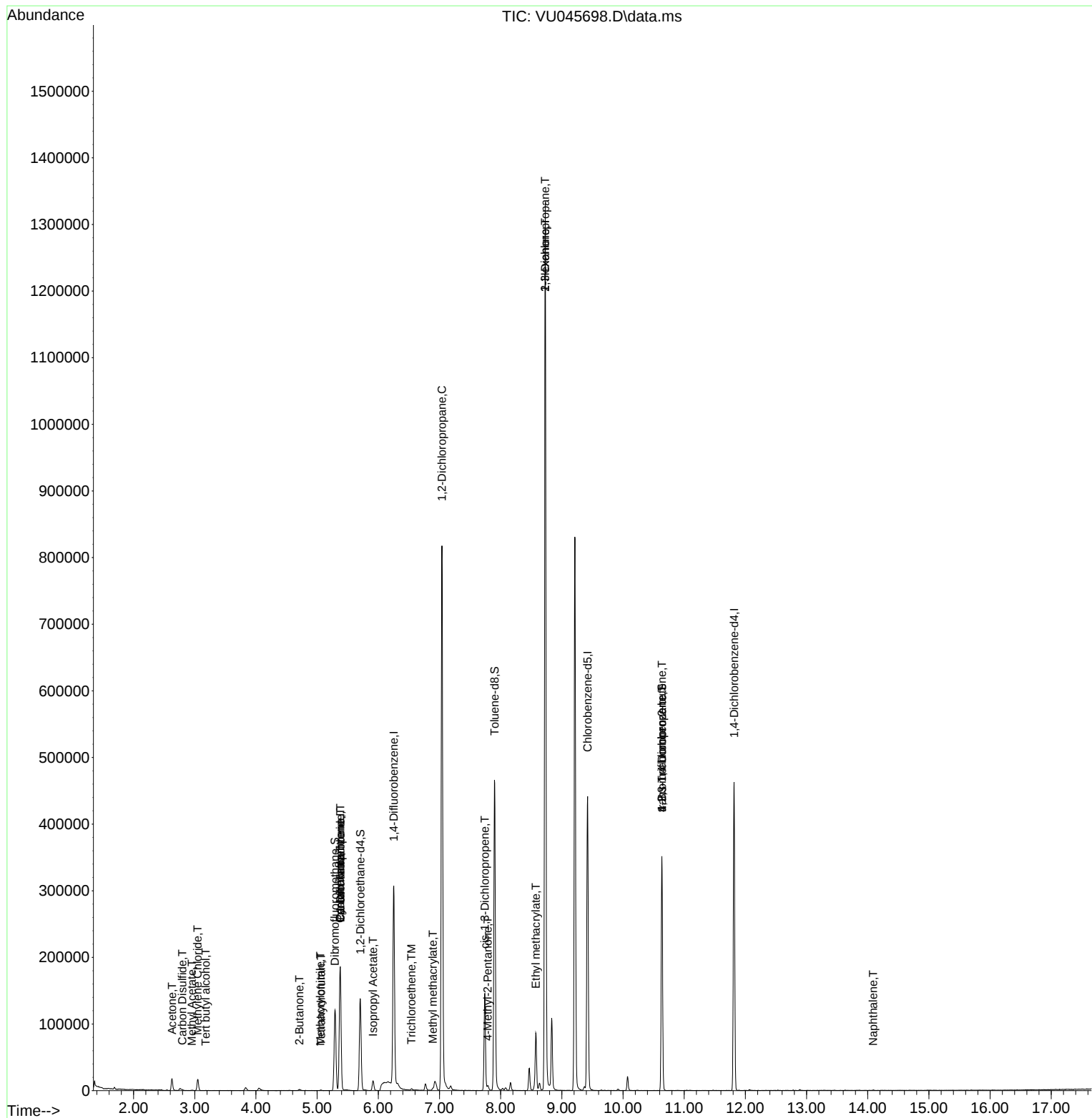
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.379	168	121457	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	233603	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	240122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	114296	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	102338	56.262	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.520%			
35) Dibromofluoromethane	5.292	113	77650	49.787	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.580%			
50) Toluene-d8	7.899	98	308679	53.225	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.440%			
62) 4-Bromofluorobenzene	10.636	95	116361	50.035	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.080%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.179	59	93	0.258	ug/l #	72
16) Acetone	2.629	43	20163	21.776	ug/l	99
17) Carbon Disulfide	2.797	76	1594	0.426	ug/l #	75
18) Methyl Acetate	2.954	43	1041	0.330	ug/l #	50
20) Methylene Chloride	3.047	84	8030	4.991	ug/l	96
25) 2-Butanone	4.710	43	3058	2.381	ug/l #	88
29) Tetrahydrofuran	5.067	42	520	0.662	ug/l #	53
31) Cyclohexane	5.375	56	2759	1.040	ug/l #	1
36) 1,1-Dichloropropene	5.379	75	10743	4.716	ug/l #	50
38) Carbon Tetrachloride	5.379	117	13019	5.669	ug/l #	17
41) Methacrylonitrile	5.051	41	309	0.223	ug/l #	22
43) Isopropyl Acetate	5.915	43	15888	3.970	ug/l	97
44) Trichloroethene	6.542	130	655	0.406	ug/l	91
45) 1,2-Dichloropropane	7.041	63	886	0.497	ug/l #	43
48) Methyl methacrylate	6.893	41	5300	2.877	ug/l #	13
51) 4-Methyl-2-Pentanone	7.790	43	4346	1.646	ug/l	94
54) cis-1,3-Dichloropropene	7.742	75	26635	9.301	ug/l #	61
56) Ethyl methacrylate	8.575	69	794	2.670	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	13692	4.443	ug/l #	42
59) 2-Hexanone	8.729	43	176110	81.888	ug/l #	48
76) 1,2,3-Trichloropropane	10.636	75	60595	17.482	ug/l #	43
81) trans-1,4-Dichloro-2-b...	10.636	75	60595	56.835	ug/l #	12
95) Naphthalene	14.089	128	969	1.131	ug/l #	69

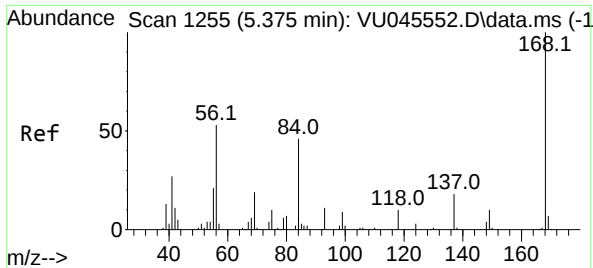
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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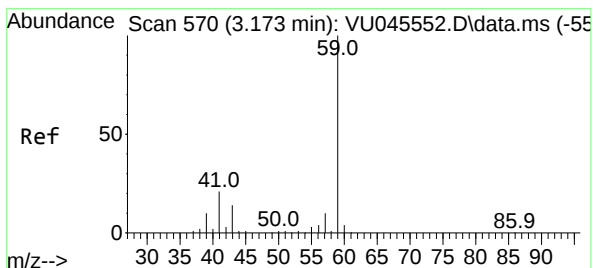
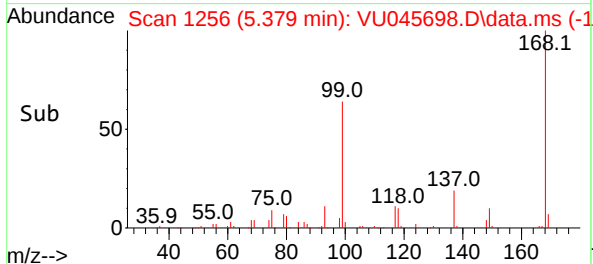
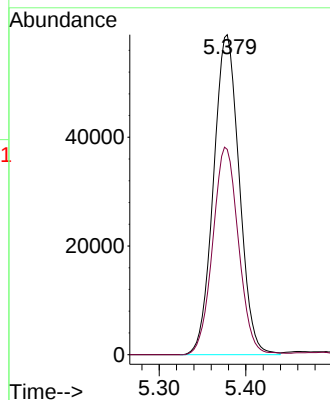
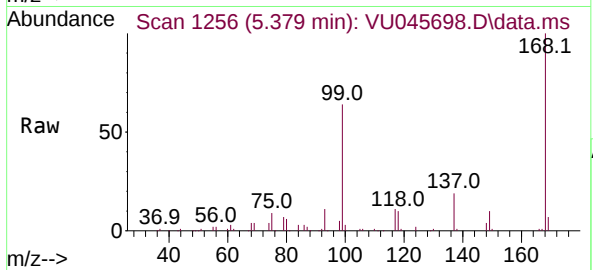




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 11
Delta R.T. 0.004 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

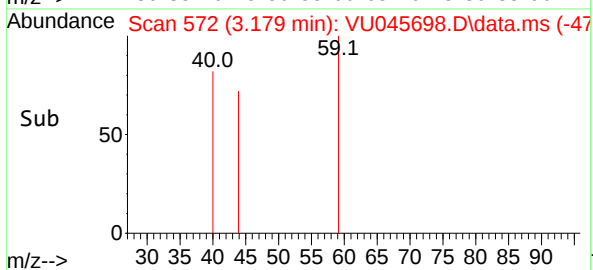
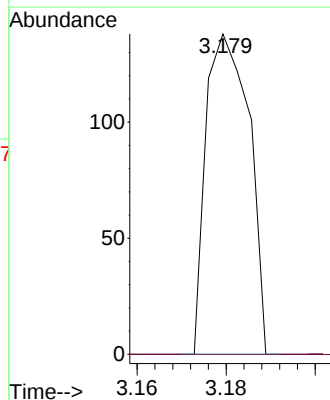
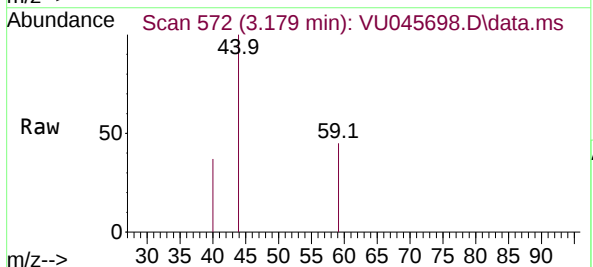
Instrument :
MSVOA_U
ClientSampleId :

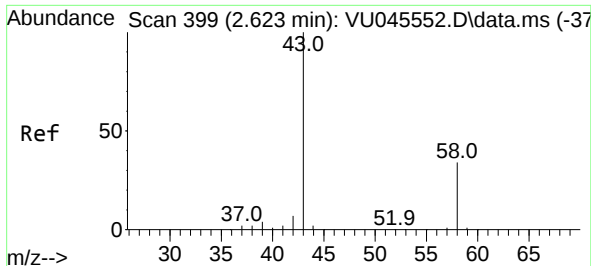
Tgt Ion:168 Resp: 121457
Ion Ratio Lower Upper
168 100
99 64.1 51.0 76.6



#11
Tert butyl alcohol
Concen: 0.258 ug/l
RT: 3.179 min Scan# 572
Delta R.T. 0.006 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Tgt Ion: 59 Resp: 93
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 21.776 ug/l

RT: 2.629 min Scan# 401

Delta R.T. 0.006 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

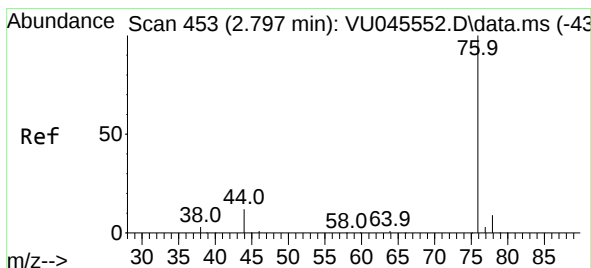
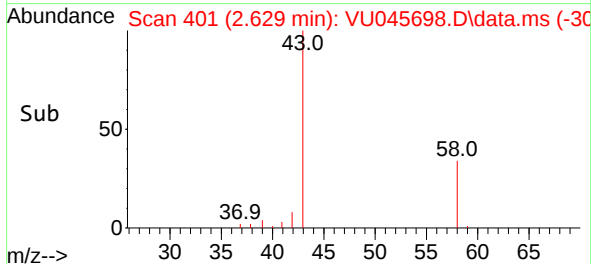
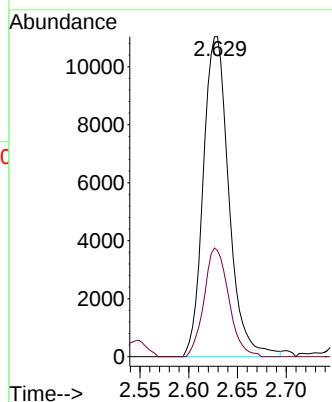
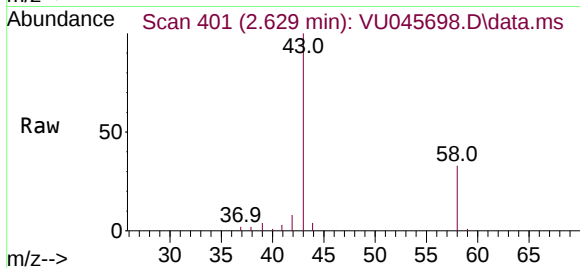
ClientSampleId :

Tgt Ion: 43 Resp: 20163

Ion Ratio Lower Upper

43 100

58 33.2 26.2 39.2



#17

Carbon Disulfide

Concen: 0.426 ug/l

RT: 2.797 min Scan# 453

Delta R.T. 0.000 min

Lab File: VU045698.D

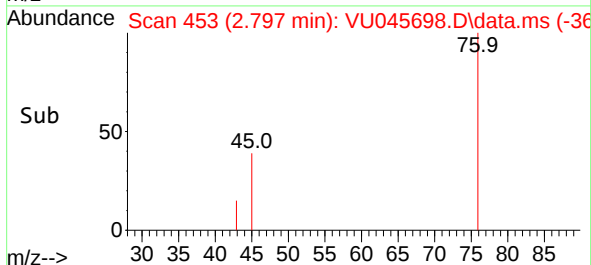
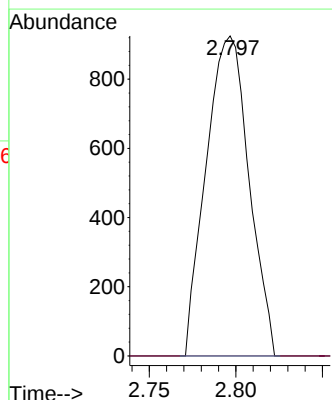
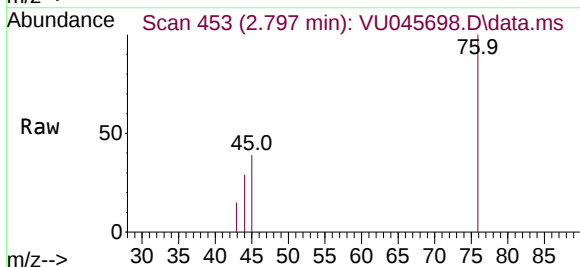
Acq: 10 Nov 2021 19:13

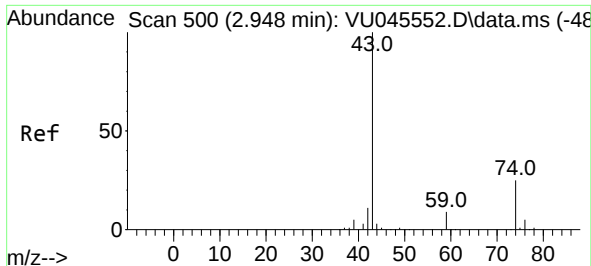
Tgt Ion: 76 Resp: 1594

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

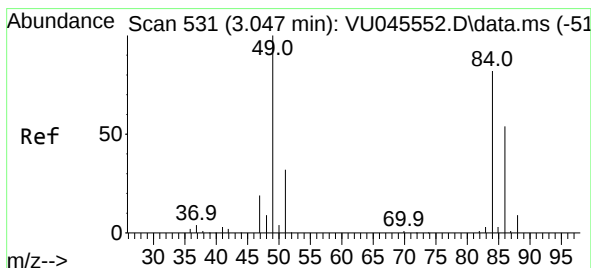
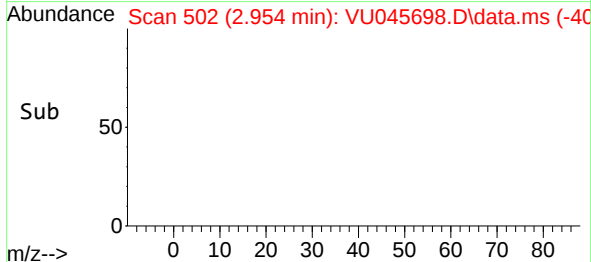
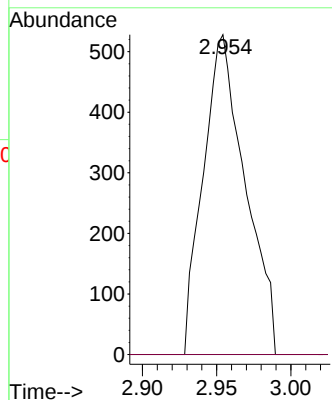
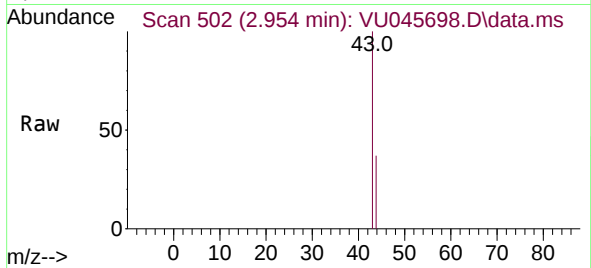




#18
Methyl Acetate
Concen: 0.330 ug/l
RT: 2.954 min Scan# 501
Delta R.T. 0.006 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

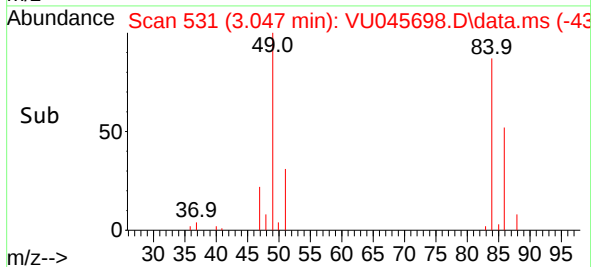
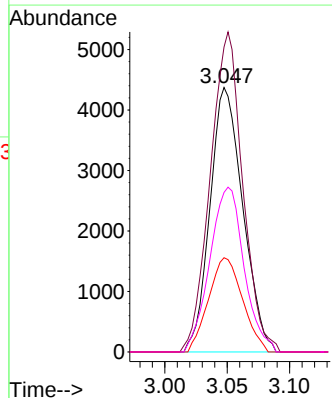
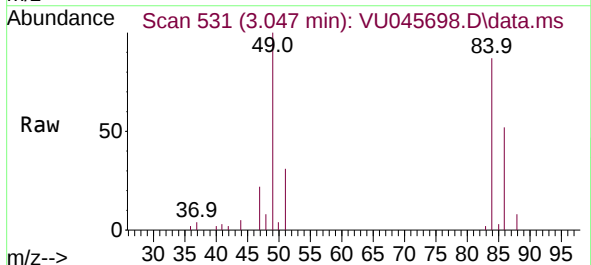
Instrument :
MSVOA_U
ClientSampleId :

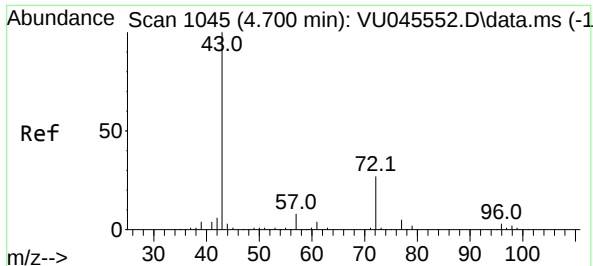
Tgt Ion: 43 Resp: 1041
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 4.991 ug/l
RT: 3.047 min Scan# 531
Delta R.T. 0.000 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Tgt Ion: 84 Resp: 8030
Ion Ratio Lower Upper
84 100
49 115.3 96.4 144.6
51 35.7 30.5 45.7
86 60.3 50.3 75.5





#25

2-Butanone

Concen: 2.381 ug/l

RT: 4.710 min Scan# 1104

Delta R.T. 0.010 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

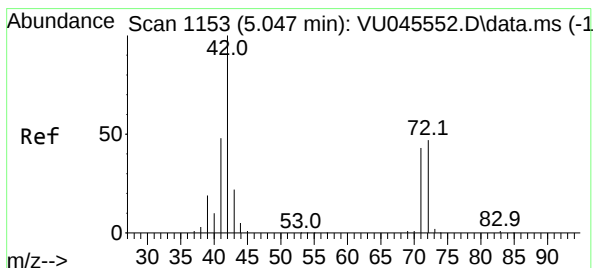
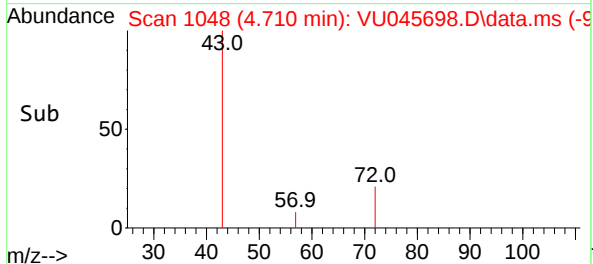
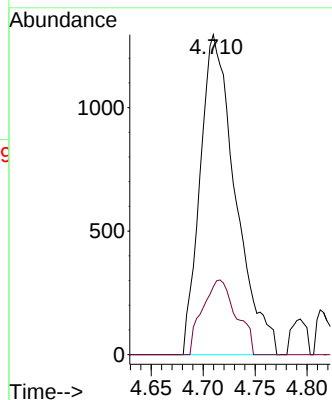
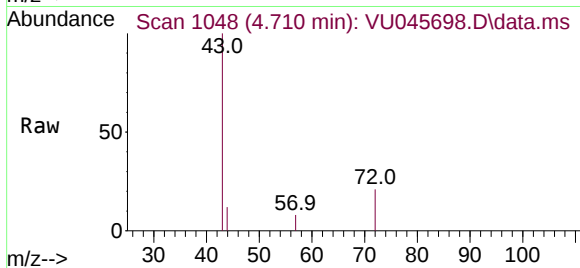
ClientSampleId :

Tgt Ion: 43 Resp: 3058

Ion Ratio Lower Upper

43 100

72 21.2 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.662 ug/l

RT: 5.067 min Scan# 1159

Delta R.T. 0.019 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

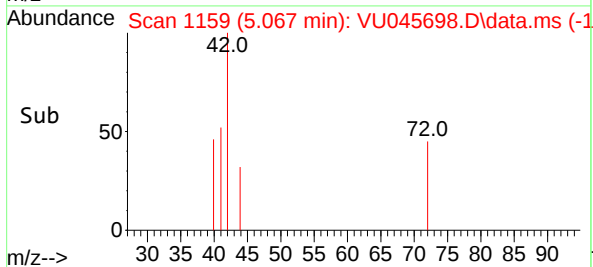
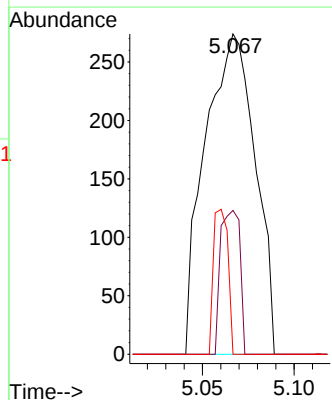
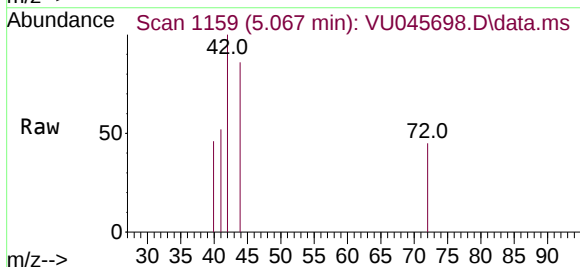
Tgt Ion: 42 Resp: 520

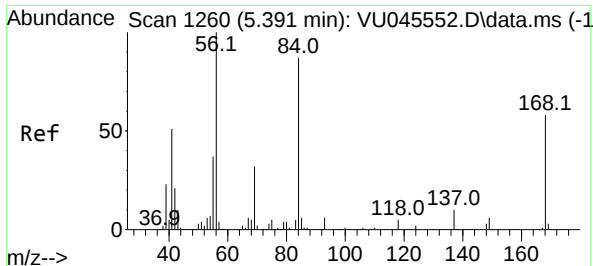
Ion Ratio Lower Upper

42 100

72 17.3 38.2 57.4#

71 13.1 35.4 53.2#





#31

Cyclohexane

Concen: 1.040 ug/l

RT: 5.375 min Scan# 11

Delta R.T. -0.016 min

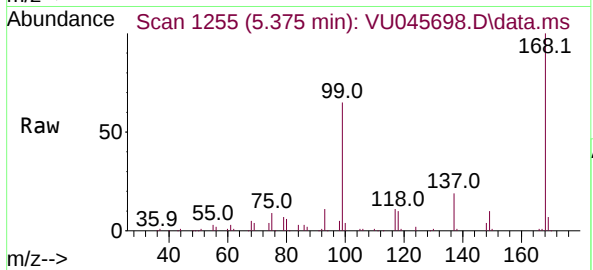
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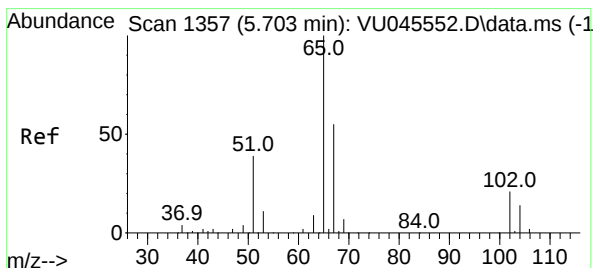
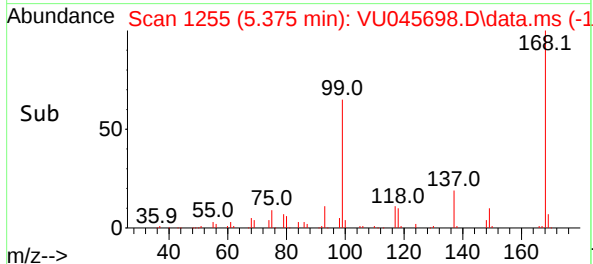
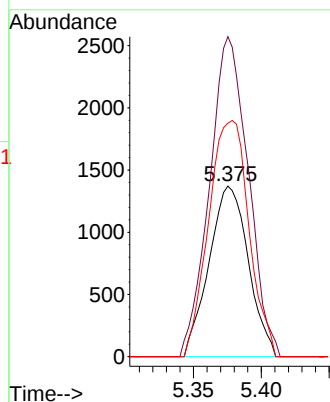
Tgt Ion: 56 Resp: 2759

Ion Ratio Lower Upper

56 100

69 187.6 26.4 39.6#

84 136.8 68.4 102.6#



#33

1,2-Dichloroethane-d4

Concen: 56.262 ug/l

RT: 5.706 min Scan# 1358

Delta R.T. 0.003 min

Lab File: VU045698.D

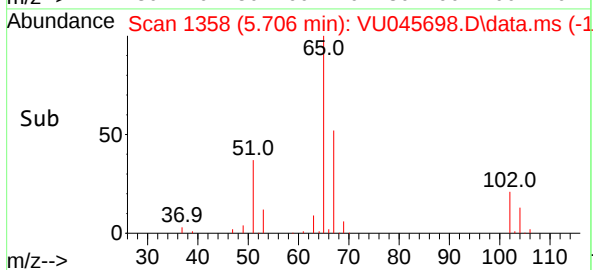
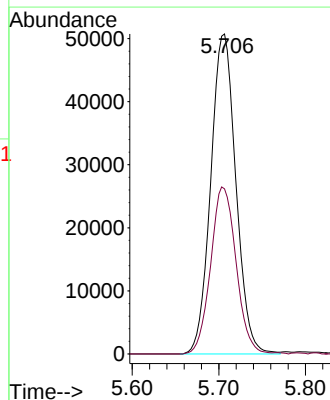
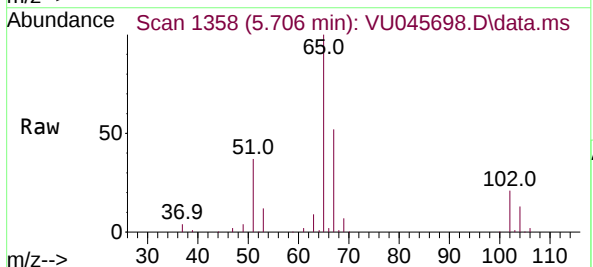
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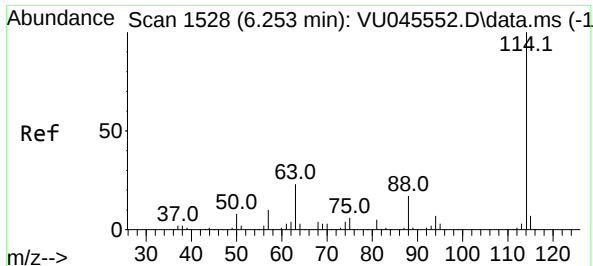
Tgt Ion: 65 Resp: 102338

Ion Ratio Lower Upper

65 100

67 52.7 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :

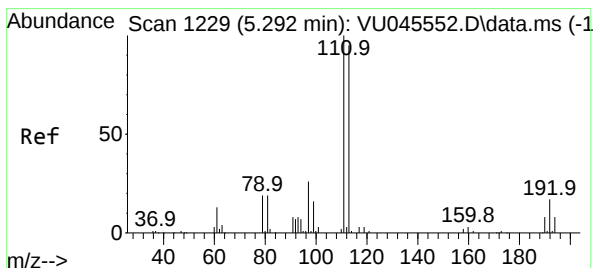
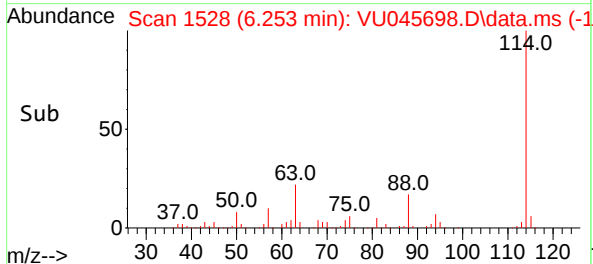
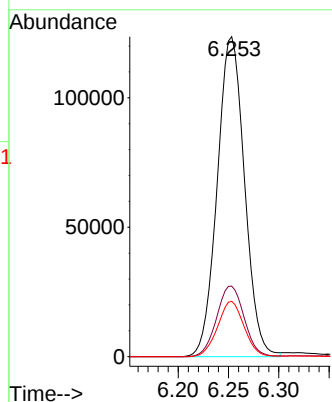
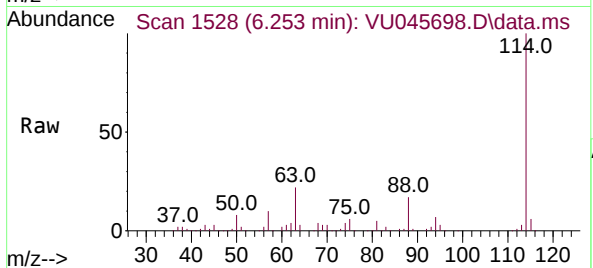
Tgt Ion:114 Resp: 233603

Ion Ratio Lower Upper

114 100

63 22.0 0.0 45.6

88 17.3 0.0 33.8



#35

Dibromofluoromethane

Concen: 49.787 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. 0.000 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

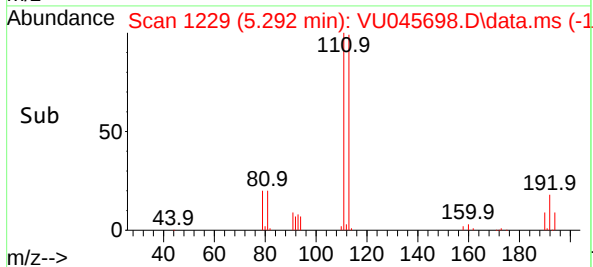
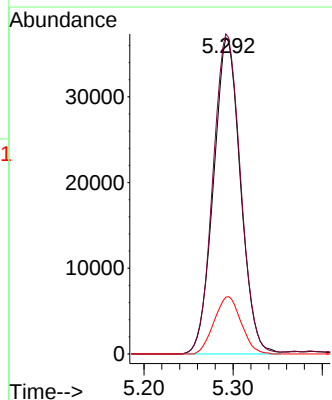
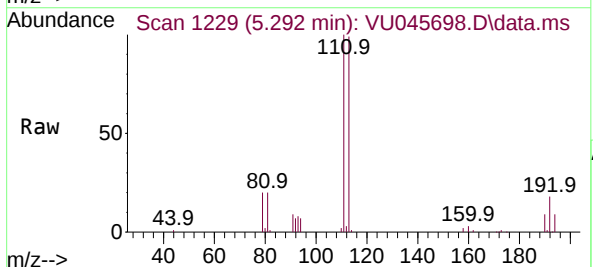
Tgt Ion:113 Resp: 77650

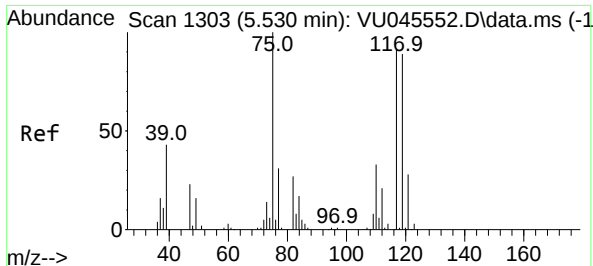
Ion Ratio Lower Upper

113 100

111 103.4 82.8 124.2

192 18.1 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.716 ug/l

RT: 5.379 min Scan# 1256

Delta R.T. -0.151 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :

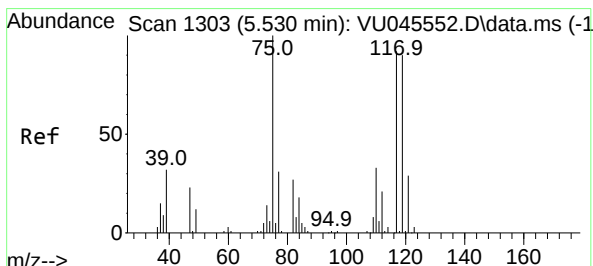
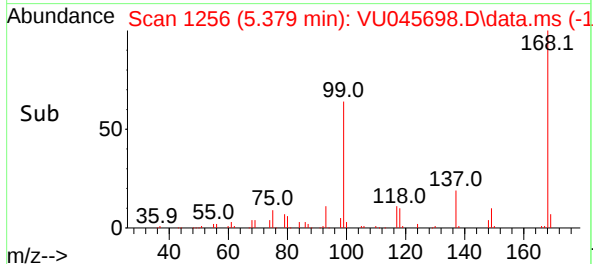
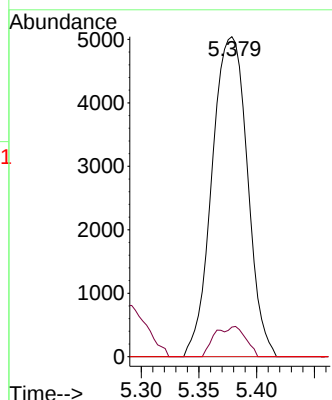
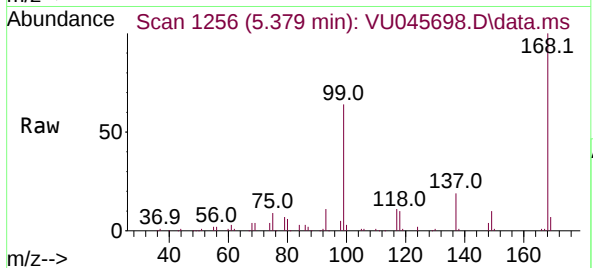
Tgt Ion: 75 Resp: 10743

Ion Ratio Lower Upper

75 100

110 8.2 16.7 50.0#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.669 ug/l

RT: 5.379 min Scan# 1256

Delta R.T. -0.151 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

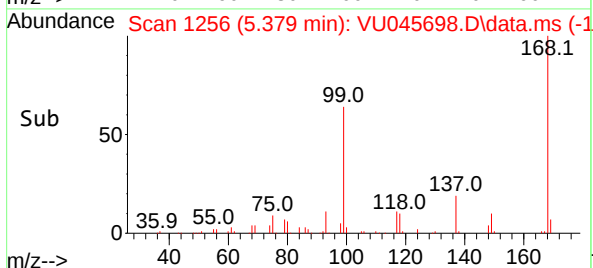
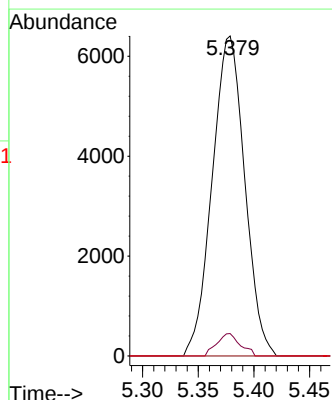
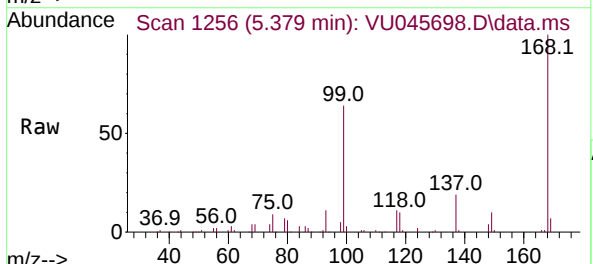
Tgt Ion: 117 Resp: 13019

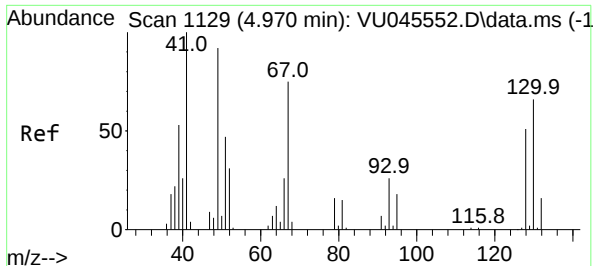
Ion Ratio Lower Upper

117 100

119 7.0 77.4 116.0#

121 0.0 24.8 37.2#





#41

Methacrylonitrile

Concen: 0.223 ug/l

RT: 5.051 min Scan# 1154

Delta R.T. 0.080 min

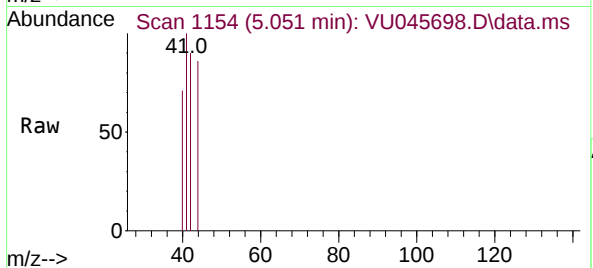
Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 41 Resp: 309

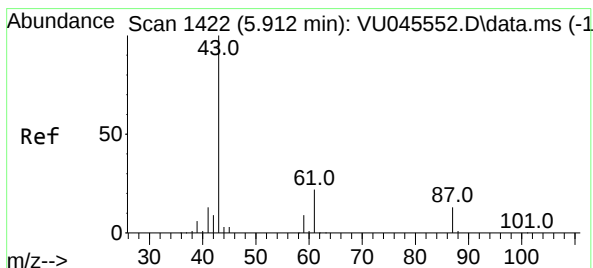
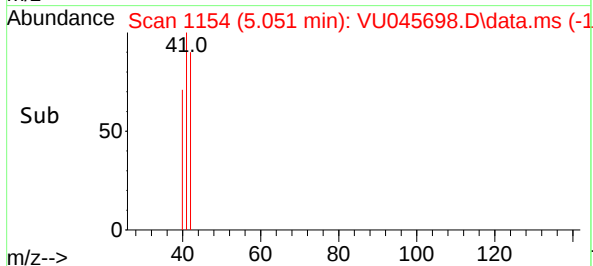
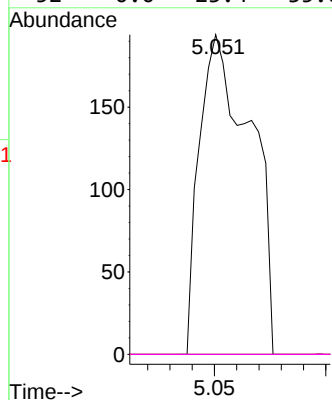
Ion Ratio Lower Upper

41 100

39 0.0 43.4 65.0#

67 0.0 61.0 91.4#

52 0.0 23.4 35.0#



#43

Isopropyl Acetate

Concen: 3.970 ug/l

RT: 5.915 min Scan# 1423

Delta R.T. 0.003 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

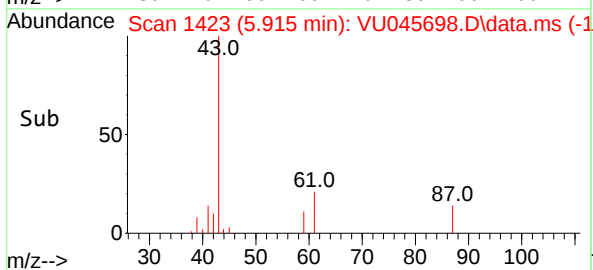
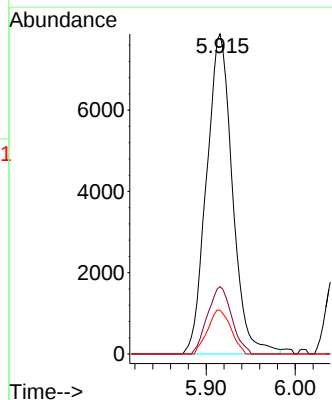
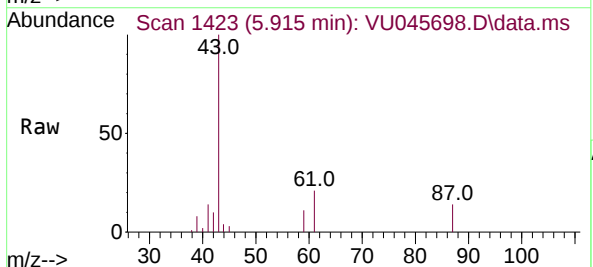
Tgt Ion: 43 Resp: 15888

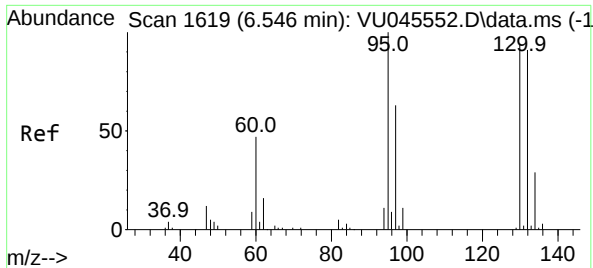
Ion Ratio Lower Upper

43 100

61 19.6 16.9 25.3

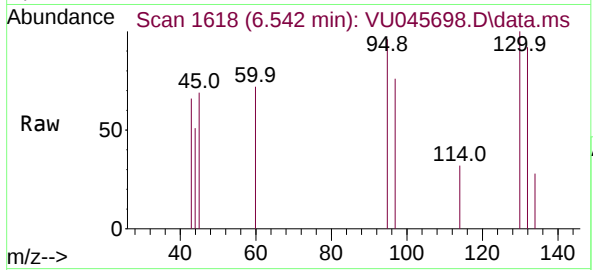
87 12.3 11.0 16.4



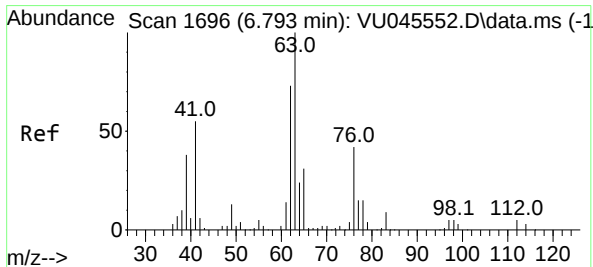
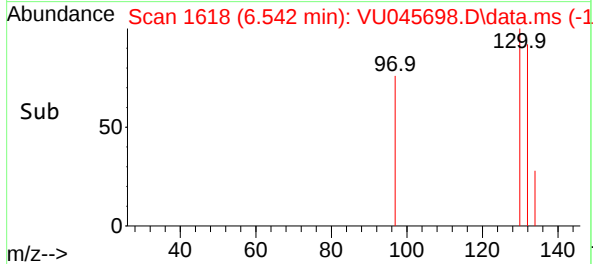
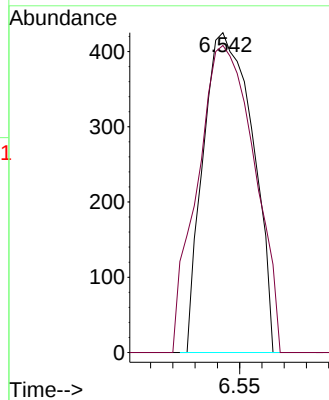


#44
Trichloroethene
Concen: 0.406 ug/l
RT: 6.542 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Instrument :
MSVOA_U
ClientSampleId :

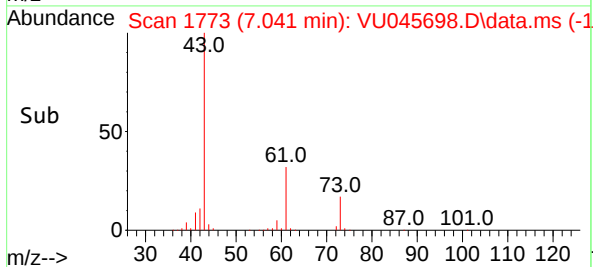
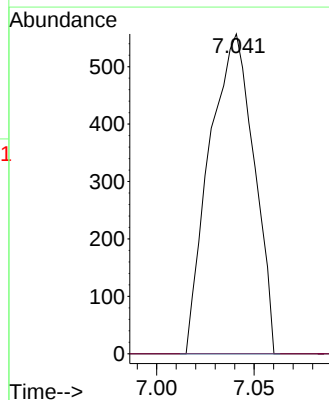
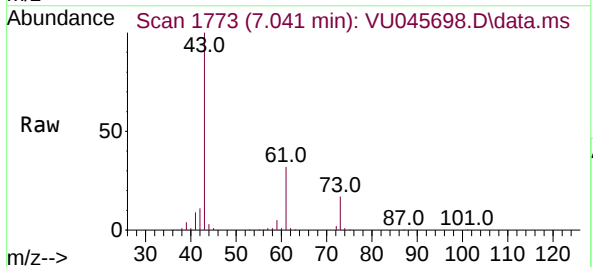


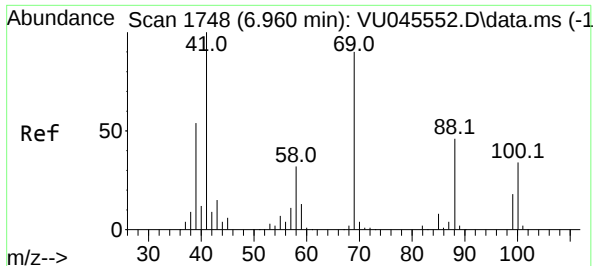
Tgt Ion:130 Resp: 655
Ion Ratio Lower Upper
130 100
95 96.0 0.0 211.4



#45
1,2-Dichloropropane
Concen: 0.497 ug/l
RT: 7.041 min Scan# 1773
Delta R.T. 0.248 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Tgt Ion: 63 Resp: 886
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#





#48

Methyl methacrylate

Concen: 2.877 ug/l

RT: 6.893 min Scan# 1

Delta R.T. -0.067 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :

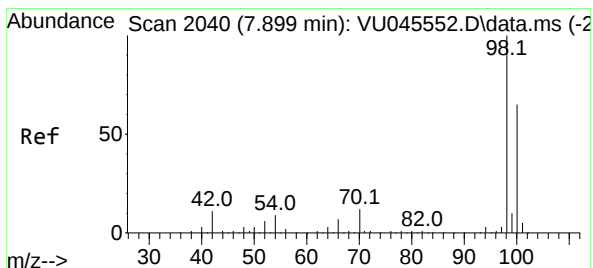
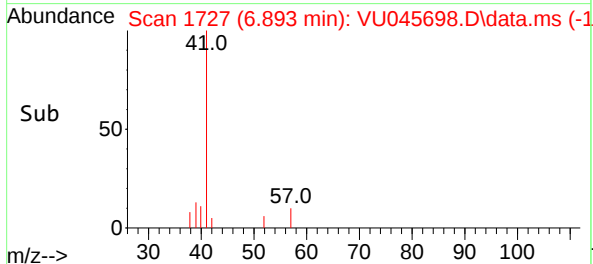
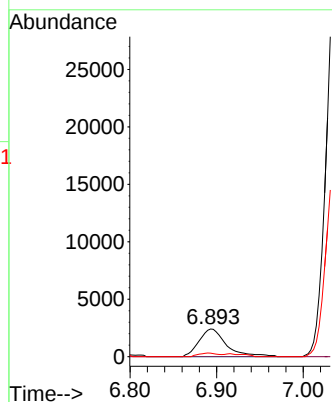
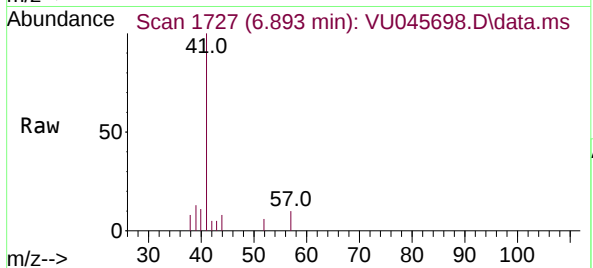
Tgt Ion: 41 Resp: 5300

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#



#50

Toluene-d8

Concen: 53.225 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. 0.000 min

Lab File: VU045698.D

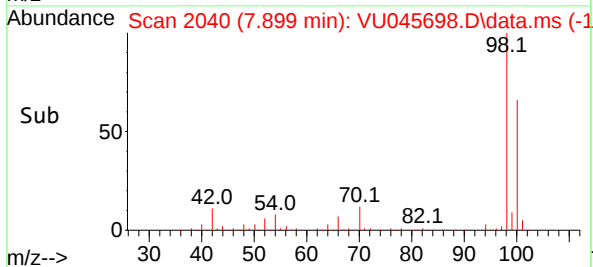
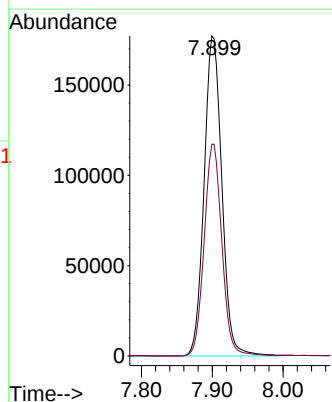
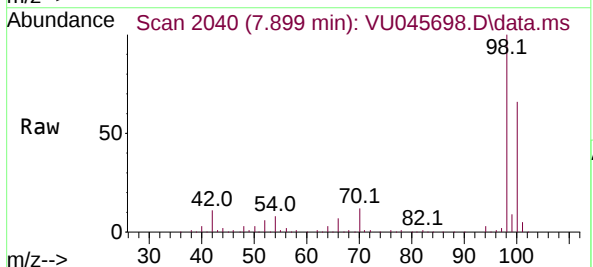
Acq: 10 Nov 2021 19:13

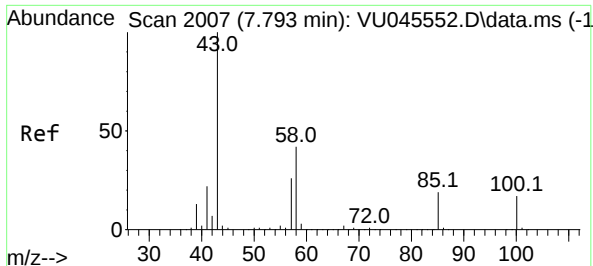
Tgt Ion: 98 Resp: 308679

Ion Ratio Lower Upper

98 100

100 65.9 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 1.646 ug/l

RT: 7.790 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

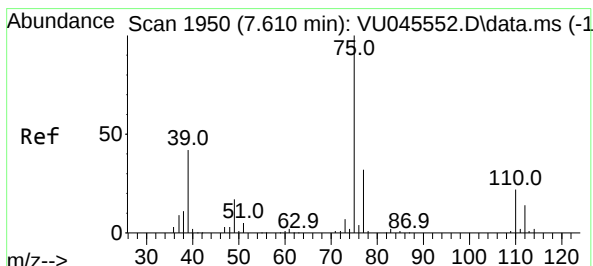
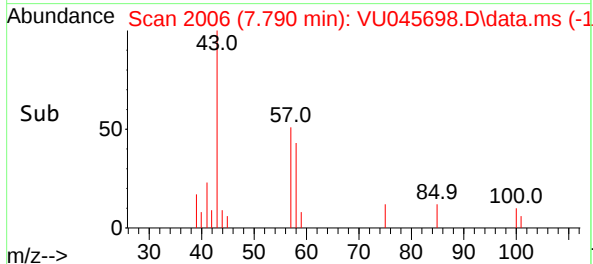
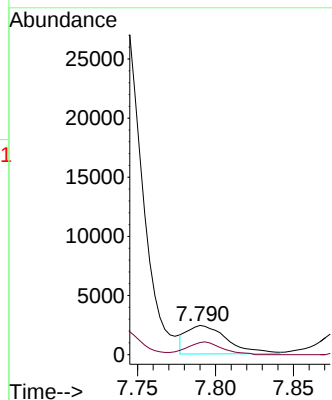
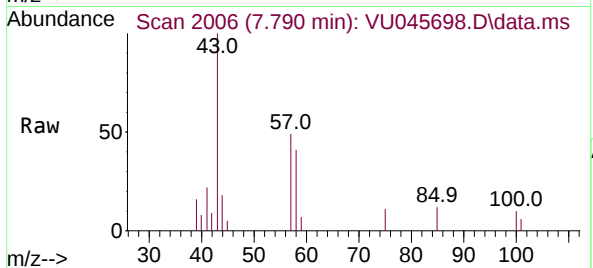
ClientSampleId :

Tgt Ion: 43 Resp: 4346

Ion Ratio Lower Upper

43 100

58 38.3 33.8 50.8



#54

cis-1,3-Dichloropropene

Concen: 9.301 ug/l

RT: 7.742 min Scan# 1991

Delta R.T. 0.132 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

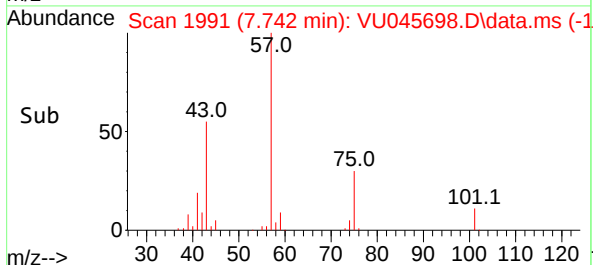
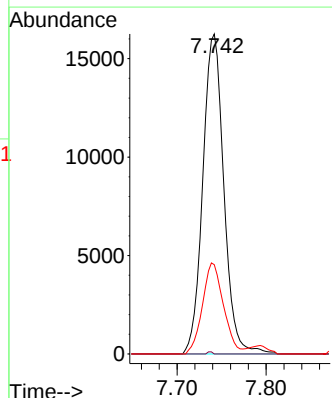
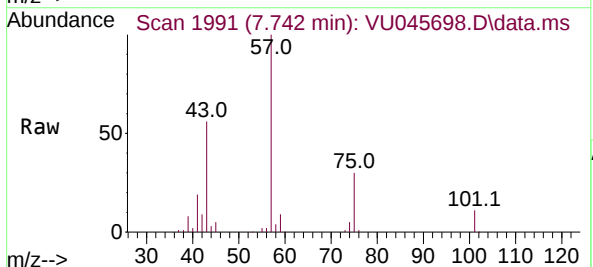
Tgt Ion: 75 Resp: 26635

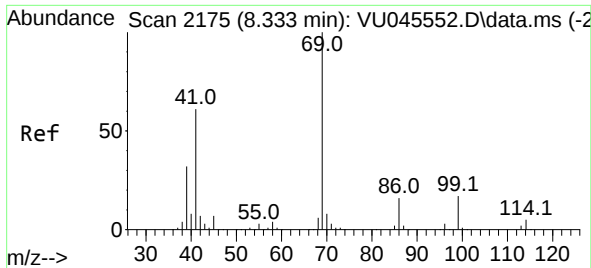
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

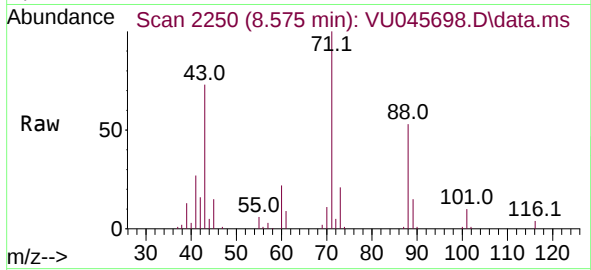
39 27.9 37.1 55.7#



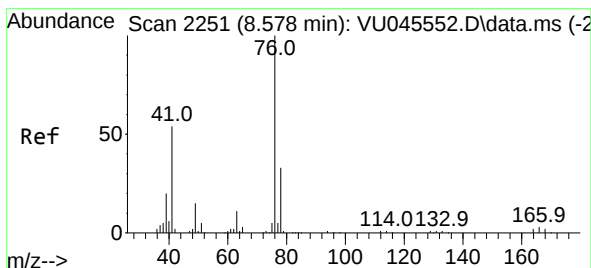
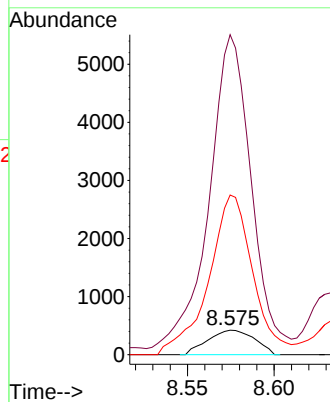
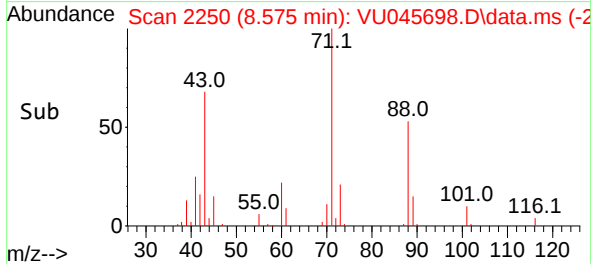


#56
Ethyl methacrylate
Concen: 2.670 ug/l
RT: 8.575 min Scan# 2175
Delta R.T. 0.242 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Instrument :
MSVOA_U
ClientSampleId :

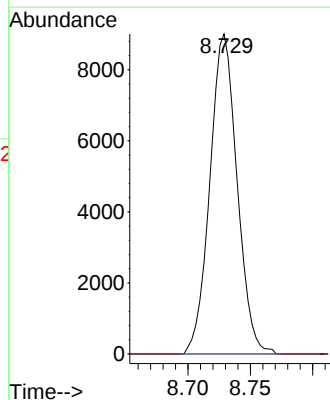
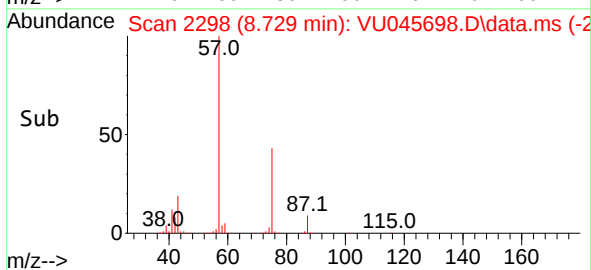
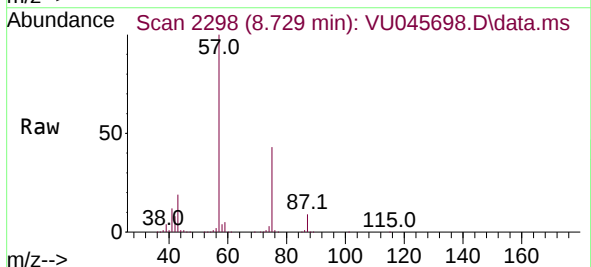


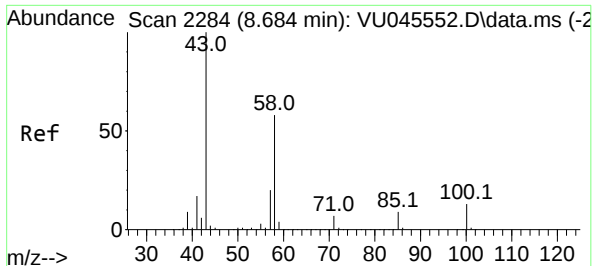
Tgt Ion: 69 Resp: 794
Ion Ratio Lower Upper
69 100
41 1134.1 51.0 76.4#
39 611.0 26.6 39.8#



#57
1,3-Dichloropropane
Concen: 4.443 ug/l
RT: 8.729 min Scan# 2298
Delta R.T. 0.151 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Tgt Ion: 76 Resp: 13692
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

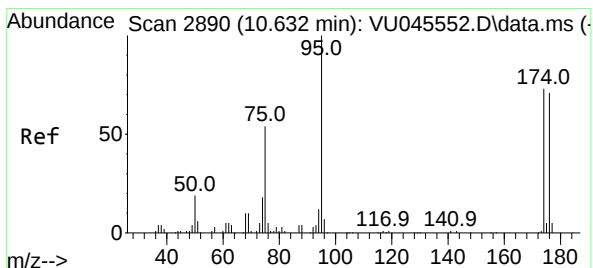
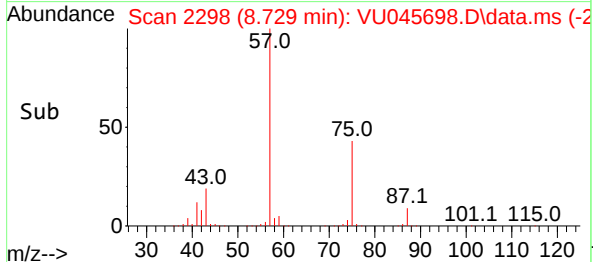
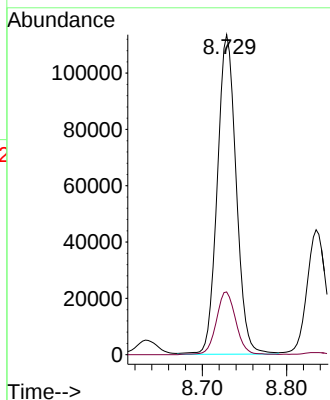
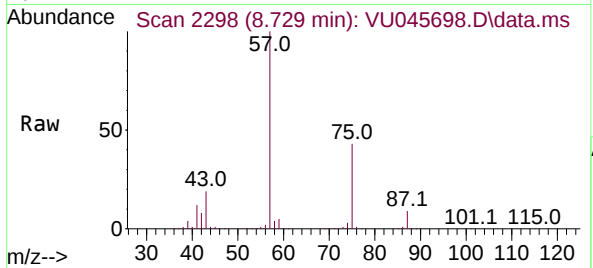




#59
2-Hexanone
Concen: 81.888 ug/l
RT: 8.729 min Scan# 21
Delta R.T. 0.045 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

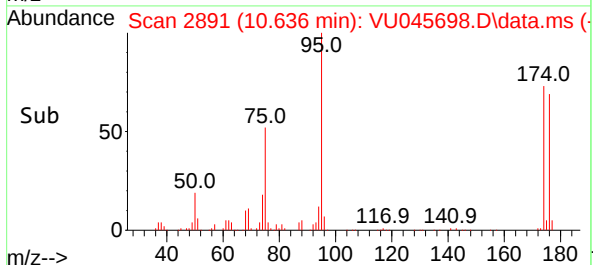
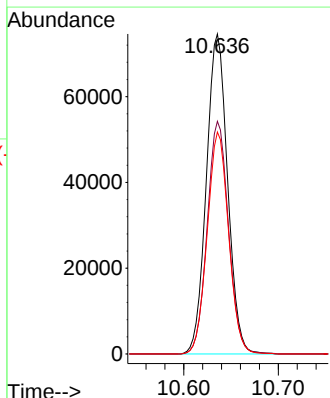
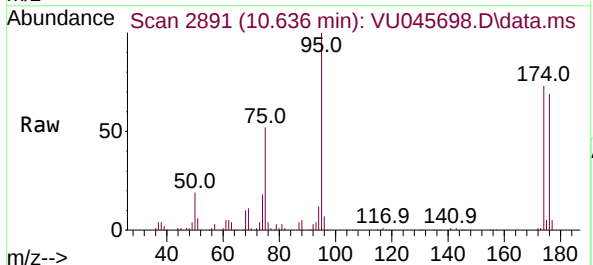
Instrument :
MSVOA_U
ClientSampleId :

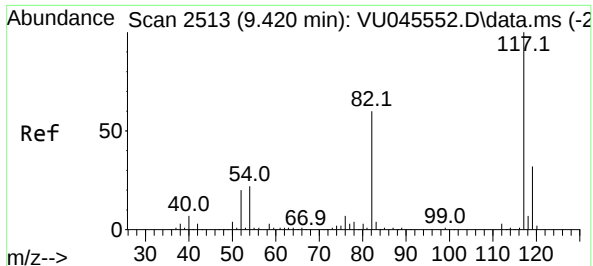
Tgt Ion: 43 Resp: 176110
Ion Ratio Lower Upper
43 100
58 20.5 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 50.035 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.003 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Tgt Ion: 95 Resp: 116361
Ion Ratio Lower Upper
95 100
174 73.0 0.0 141.8
176 69.8 0.0 138.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :

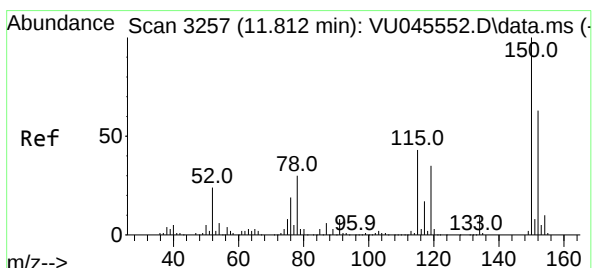
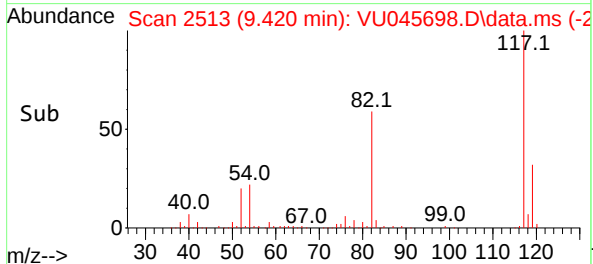
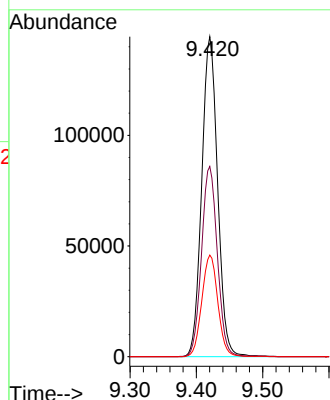
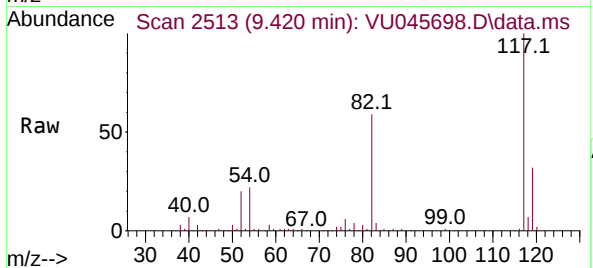
Tgt Ion:117 Resp: 240122

Ion Ratio Lower Upper

117 100

82 59.5 47.8 71.8

119 31.8 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.816 min Scan# 3258

Delta R.T. 0.003 min

Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

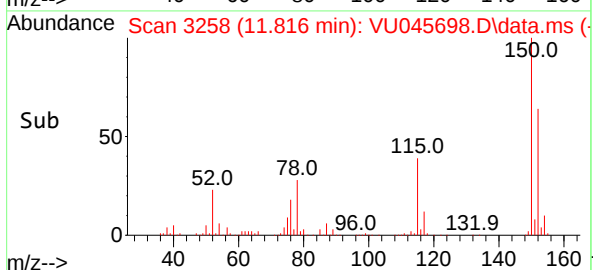
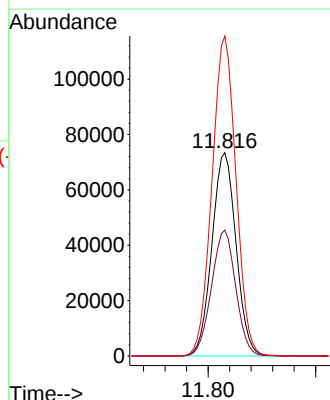
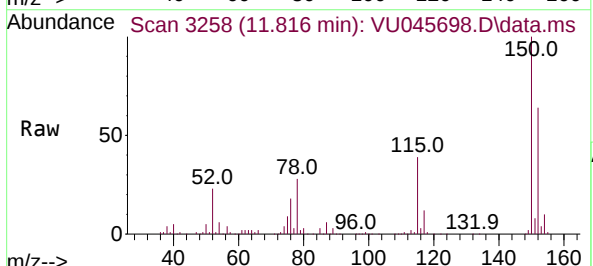
Tgt Ion:152 Resp: 114296

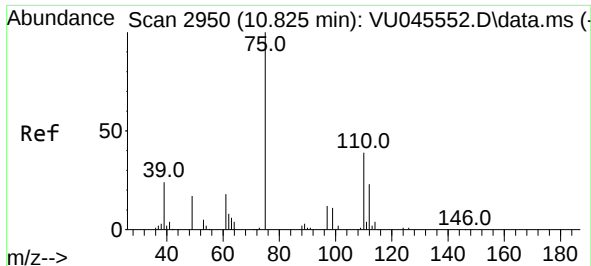
Ion Ratio Lower Upper

152 100

115 62.2 42.7 128.1

150 156.5 0.0 346.8

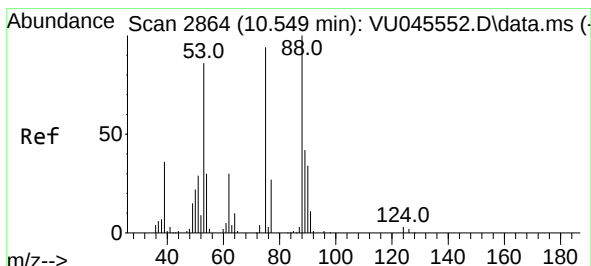
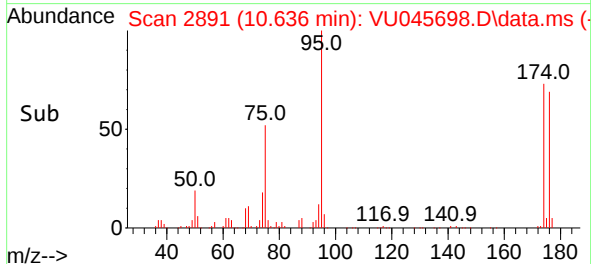
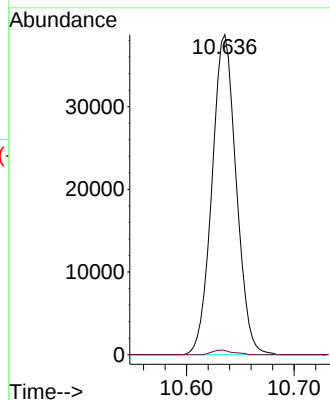
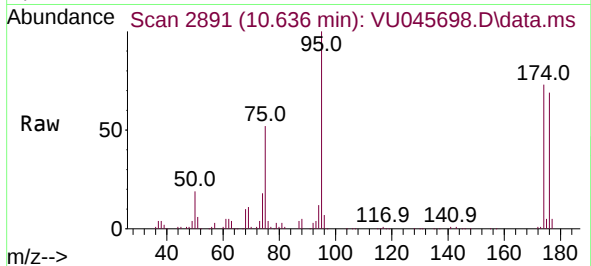




#76
1,2,3-Trichloropropane
Concen: 17.482 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.190 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

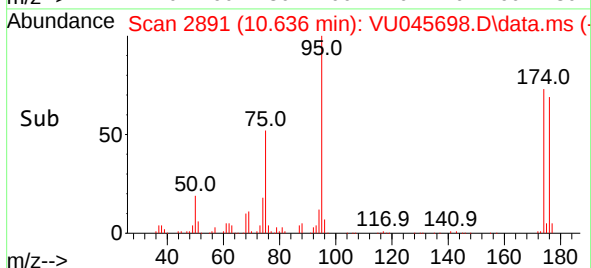
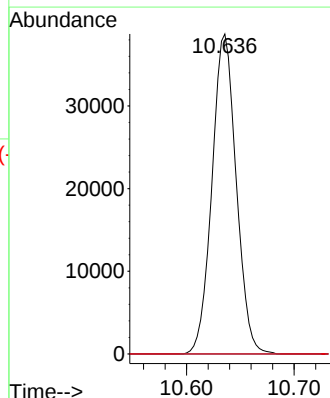
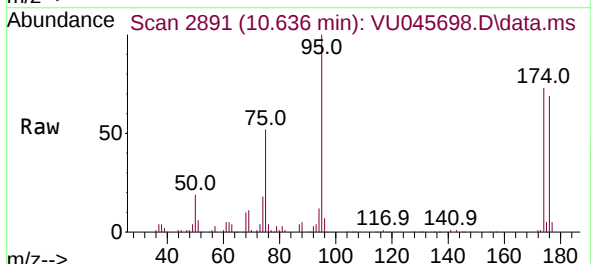
Instrument :
MSVOA_U
ClientSampleId :

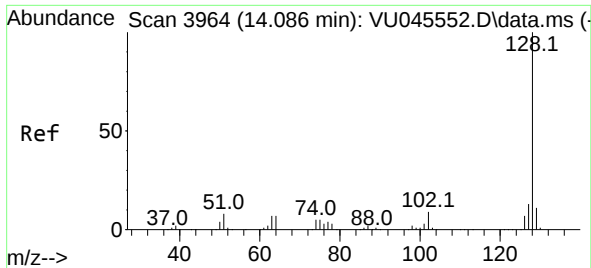
Tgt Ion: 75 Resp: 60595
Ion Ratio Lower Upper
75 100
77 1.2 17.1 51.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.835 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.087 min
Lab File: VU045698.D
Acq: 10 Nov 2021 19:13

Tgt Ion: 75 Resp: 60595
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#





#95

Naphthalene

Concen: 1.131 ug/l

RT: 14.089 min Scan# 3965

Delta R.T. 0.003 min

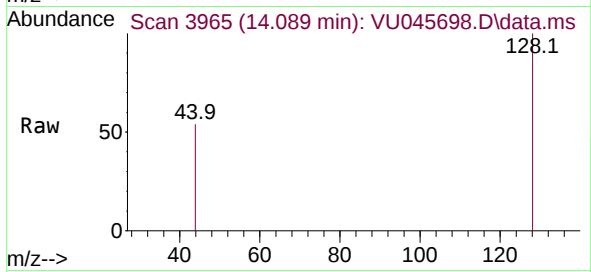
Lab File: VU045698.D

Acq: 10 Nov 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 969

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

