

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102221\
 Data File : VU045367.D
 Acq On : 22 Oct 2021 16:11
 Operator : SY/MD
 Sample : M4315-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 01:12:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 28 12:32:13 2021
 Response via : Initial Calibration

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

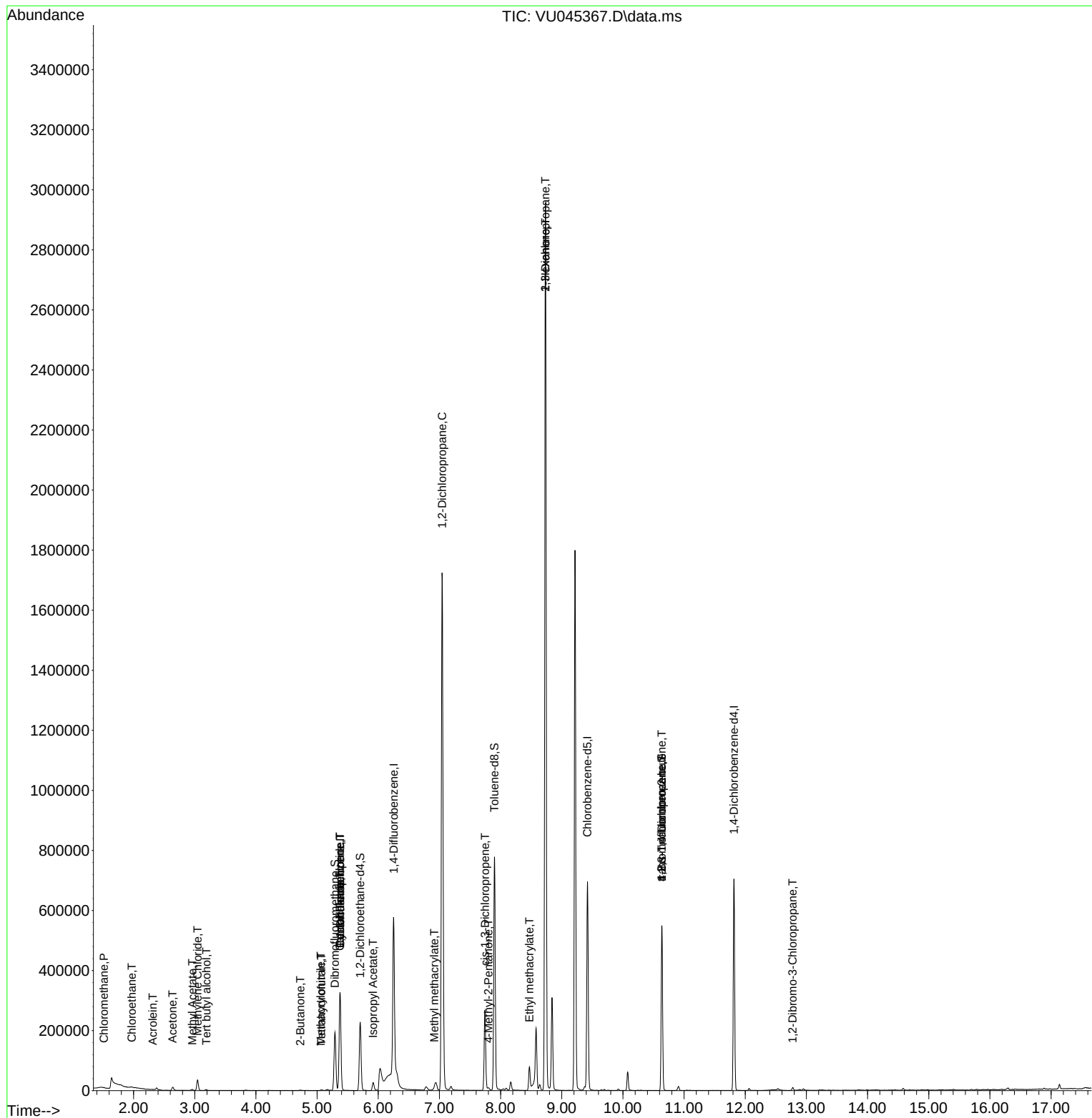
Internal Standards						
1) Pentafluorobenzene	5.375	168	215269	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	406578	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	376832	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	170708	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	170711	47.639	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	95.280%
35) Dibromofluoromethane	5.292	113	125094	48.773	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.540%
50) Toluene-d8	7.899	98	503543	49.688	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.380%
62) 4-Bromofluorobenzene	10.635	95	189349	45.257	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.520%
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	722	0.209	ug/l	98
6) Chloroethane	1.970	64	1970	0.744	ug/l #	49
11) Tert butyl alcohol	3.189	59	1789	1.739	ug/l #	72
13) Acrolein	2.314	56	20	3.223	ug/l #	14
16) Acetone	2.639	43	14460	6.798	ug/l	99
18) Methyl Acetate	2.961	43	4883	0.785	ug/l	92
20) Methylene Chloride	3.047	84	16392	5.116	ug/l	96
25) 2-Butanone	4.726	43	2916	0.965	ug/l	95
29) Tetrahydrofuran	5.070	42	1438	0.799	ug/l #	72
31) Cyclohexane	5.375	56	5133	0.943	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	20800	4.892	ug/l #	49
38) Carbon Tetrachloride	5.372	117	22739	6.180	ug/l #	15
41) Methacrylonitrile	5.063	41	711	0.245	ug/l #	40
43) Isopropyl Acetate	5.915	43	30180	3.566	ug/l	98
45) 1,2-Dichloropropane	7.044	63	2340	0.697	ug/l #	45
48) Methyl methacrylate	6.915	41	9769	2.371	ug/l #	14
49) 1,4-Dioxane	7.041	88	256	Below Cal	#	1
51) 4-Methyl-2-Pentanone	7.800	43	6601	1.071	ug/l	96
54) cis-1,3-Dichloropropene	7.745	75	51276	9.803	ug/l #	56
56) Ethyl methacrylate	8.472	69	202	1.851	ug/l #	1
57) 1,3-Dichloropropane	8.732	76	32008	5.431	ug/l #	43
59) 2-Hexanone	8.732	43	428392	85.378	ug/l #	50
76) 1,2,3-Trichloropropane	10.635	75	99594	20.002	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.635	75	99594	55.509	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	12.774	75	382	0.294	ug/l #	7

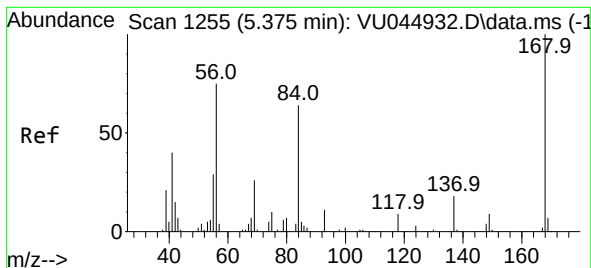
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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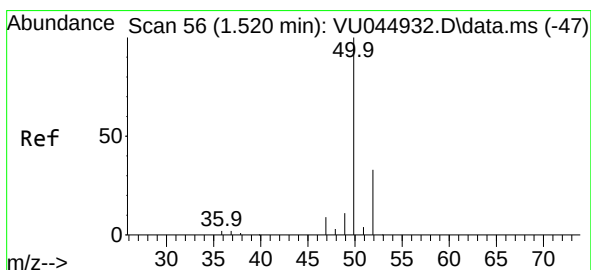
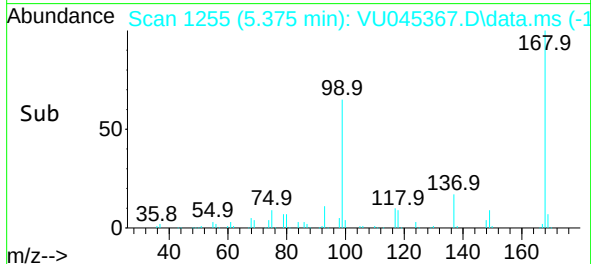
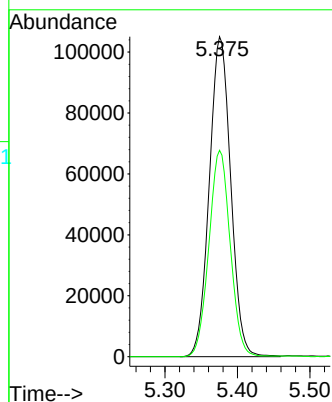
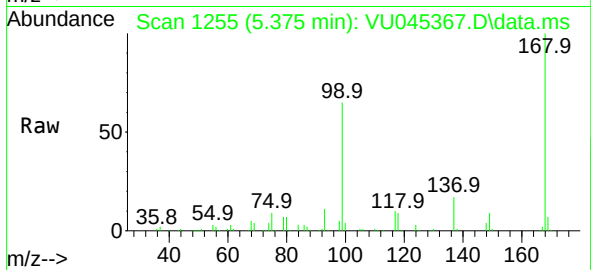




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

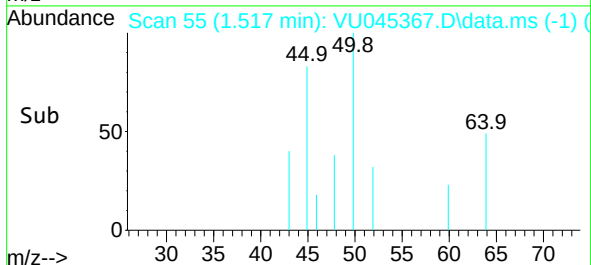
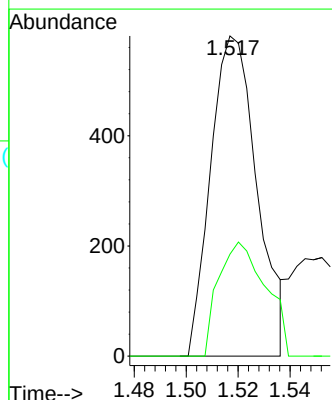
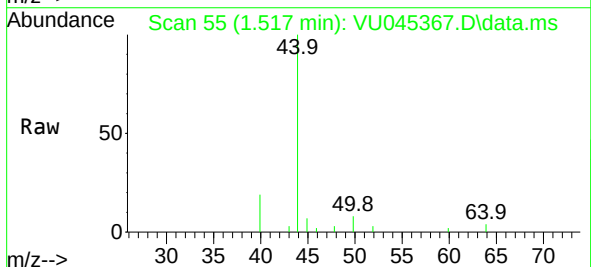
Instrument :
MSVOA_U
ClientSampleId :

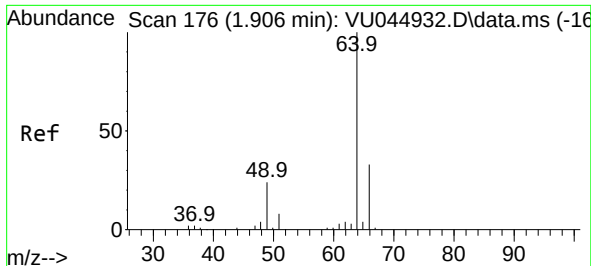
Tgt Ion:168 Resp: 215269
Ion Ratio Lower Upper
168 100
99 64.5 51.4 77.0



#3
Chloromethane
Concen: 0.209 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 50 Resp: 722
Ion Ratio Lower Upper
50 100
52 31.8 26.3 39.5

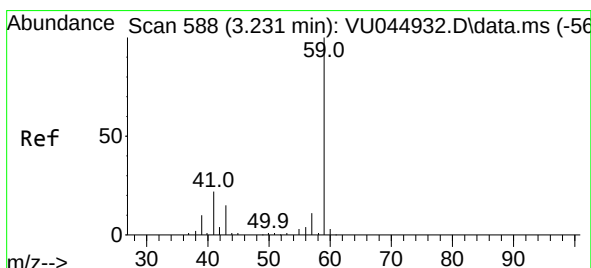
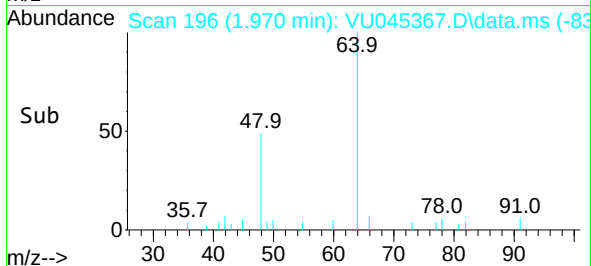
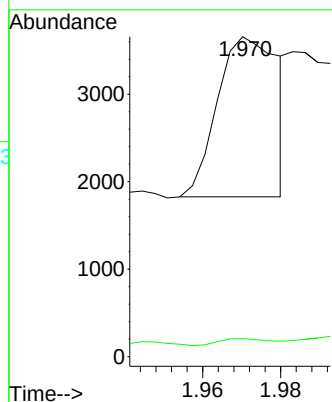
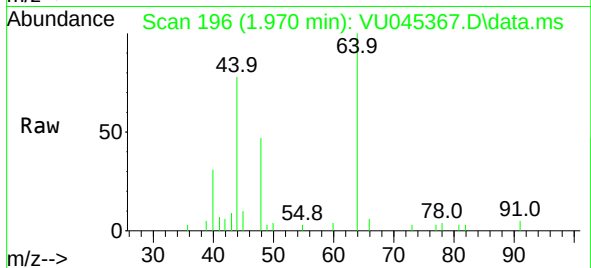




#6
Chloroethane
Concen: 0.744 ug/l
RT: 1.970 min Scan# 196
Delta R.T. 0.064 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

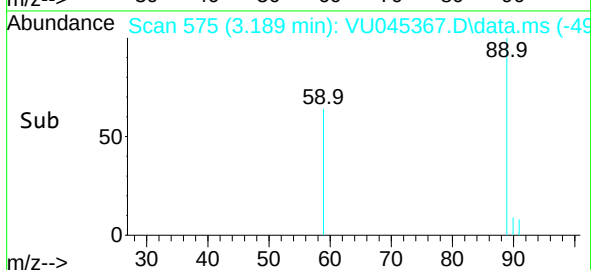
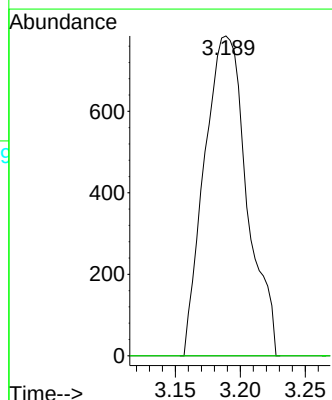
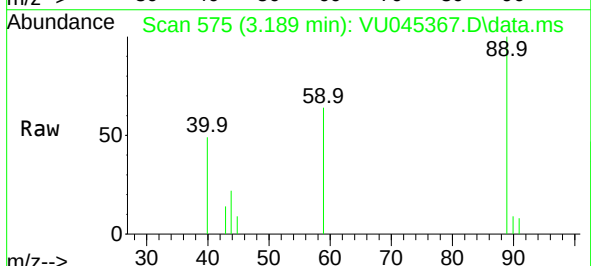
Instrument :
MSVOA_U
ClientSampleId :

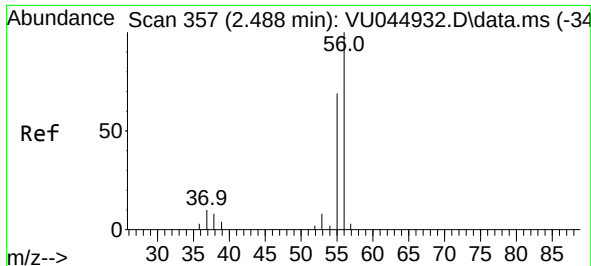
Tgt Ion: 64 Resp: 1970
Ion Ratio Lower Upper
64 100
66 3.5 25.8 38.8#



#11
Tert butyl alcohol
Concen: 1.739 ug/l
RT: 3.189 min Scan# 575
Delta R.T. -0.042 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 59 Resp: 1789
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

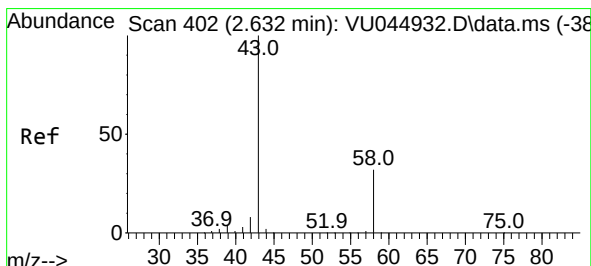
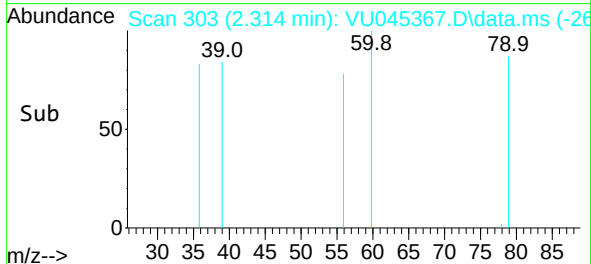
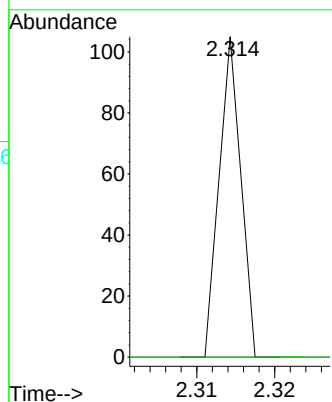
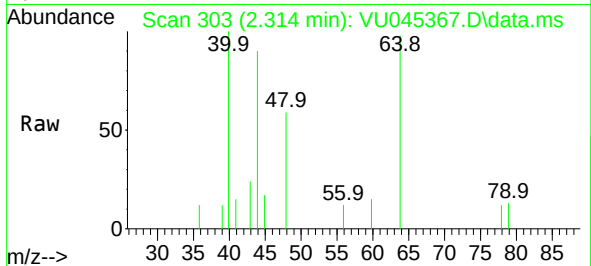




#13
Acrolein
Concen: 3.223 ug/l
RT: 2.314 min Scan# 303
Delta R.T. -0.174 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

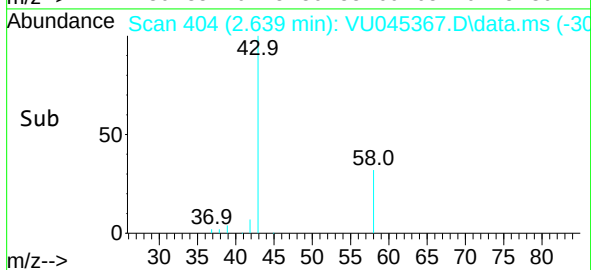
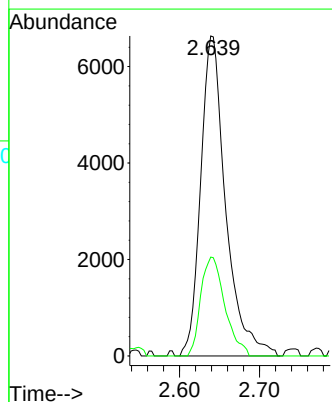
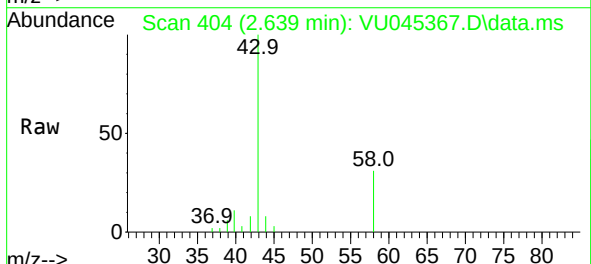
Instrument :
MSVOA_U
ClientSampled :

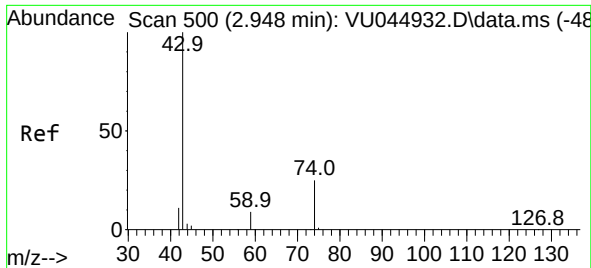
Tgt Ion: 56 Resp: 20
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: 6.798 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.007 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 43 Resp: 14460
Ion Ratio Lower Upper
43 100
58 30.9 25.2 37.8

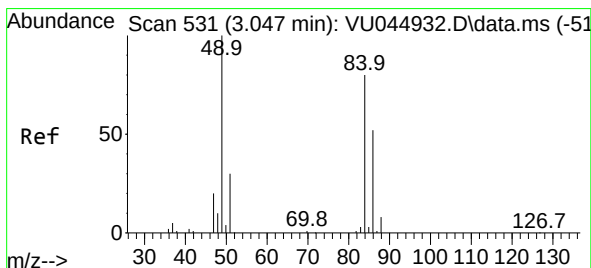
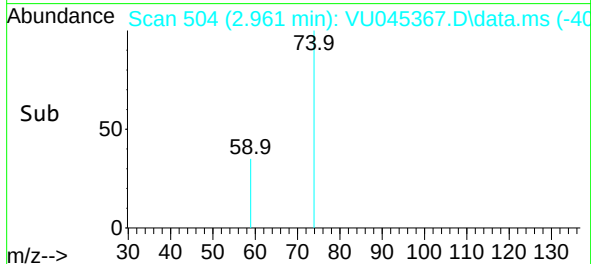
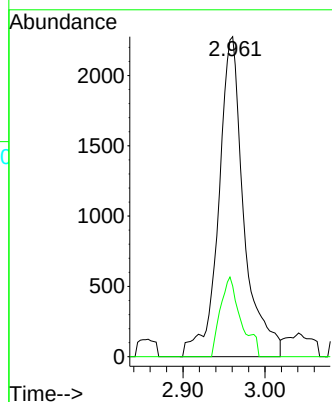
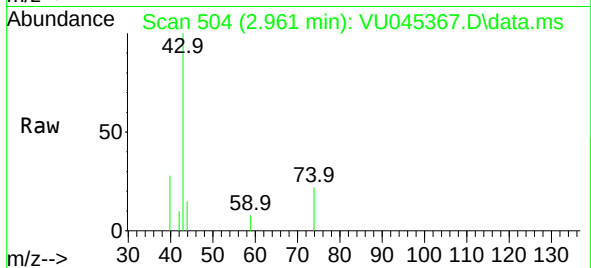




#18
Methyl Acetate
Concen: 0.785 ug/l
RT: 2.961 min Scan# 504
Delta R.T. 0.013 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

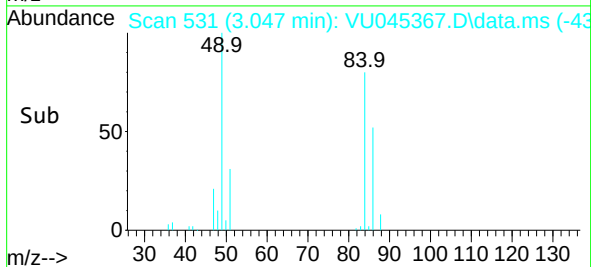
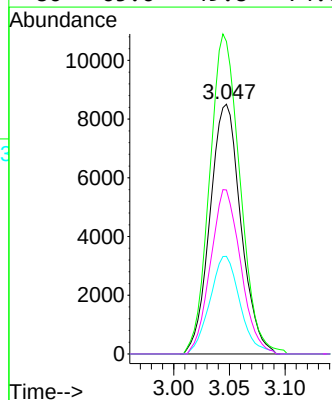
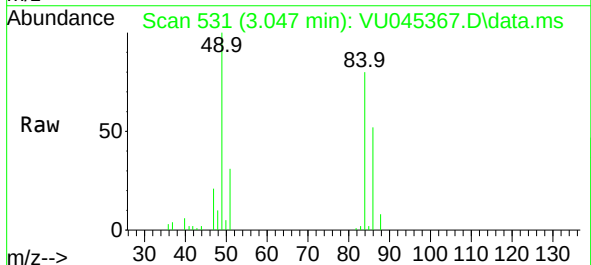
Instrument :
MSVOA_U
ClientSampled :

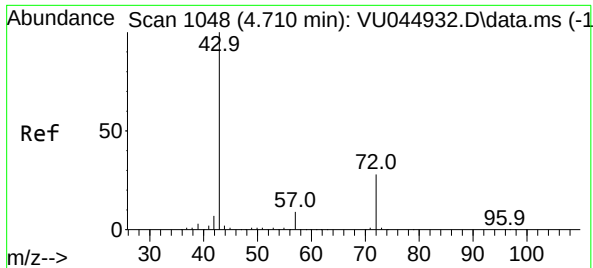
Tgt Ion: 43 Resp: 4883
Ion Ratio Lower Upper
43 100
74 20.0 19.0 28.6



#20
Methylene Chloride
Concen: 5.116 ug/l
RT: 3.047 min Scan# 531
Delta R.T. 0.000 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 84 Resp: 16392
Ion Ratio Lower Upper
84 100
49 125.1 104.9 157.3
51 39.1 31.8 47.8
86 65.6 49.8 74.6

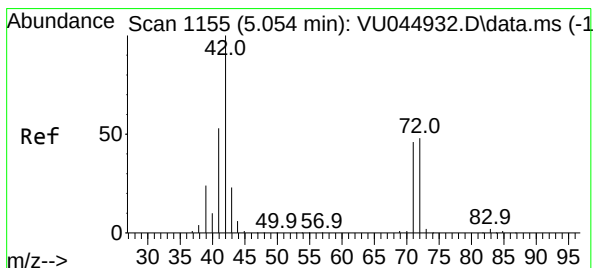
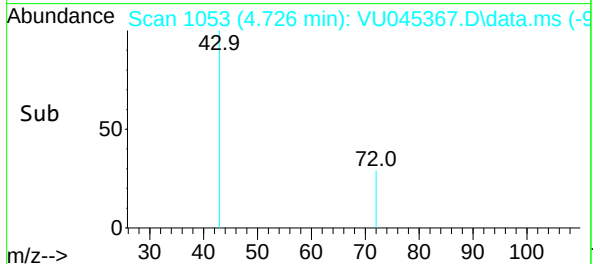
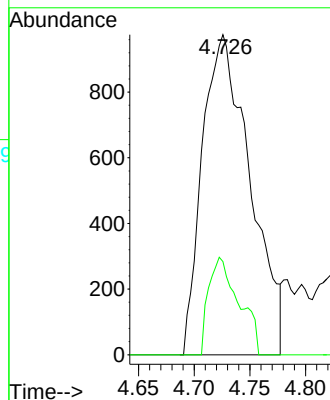
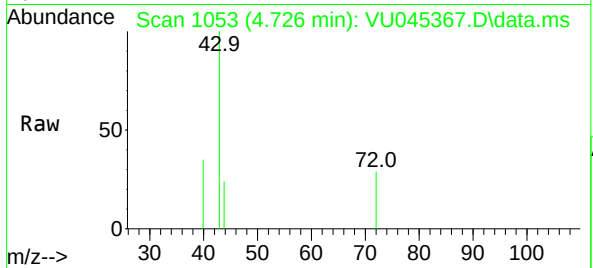




#25
2-Butanone
Concen: 0.965 ug/l
RT: 4.726 min Scan# 1053
Delta R.T. 0.016 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

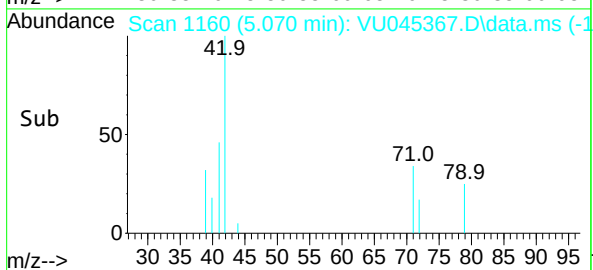
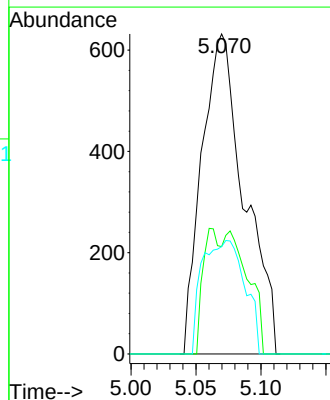
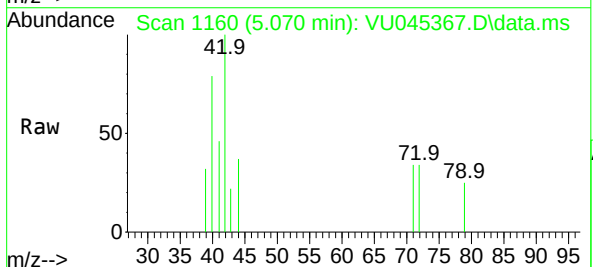
Instrument :
MSVOA_U
ClientSampled :

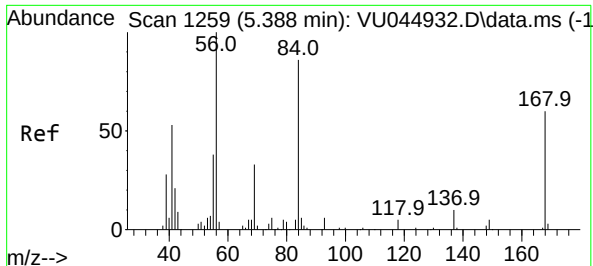
Tgt Ion: 43 Resp: 2916
Ion Ratio Lower Upper
43 100
72 29.1 21.3 31.9



#29
Tetrahydrofuran
Concen: 0.799 ug/l
RT: 5.070 min Scan# 1160
Delta R.T. 0.016 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 42 Resp: 1438
Ion Ratio Lower Upper
42 100
72 16.9 36.2 54.4#
71 35.5 34.1 51.1





#31

Cyclohexane

Concen: 0.943 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.013 min

Lab File: VU045367.D

Acq: 22 Oct 2021 16:11

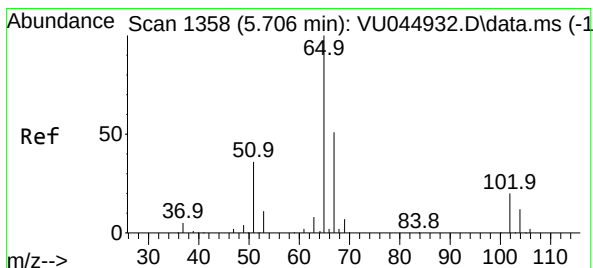
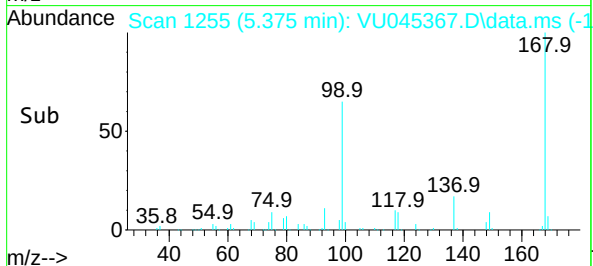
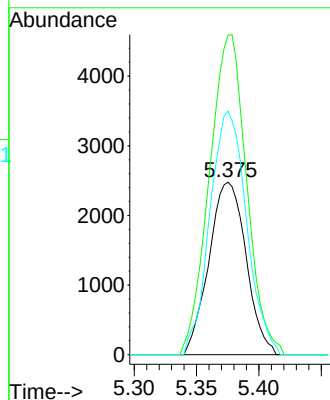
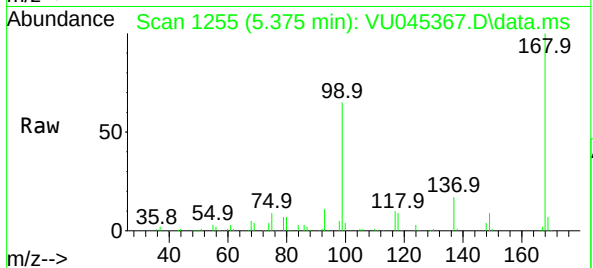
Tgt Ion: 56 Resp: 5133

Ion Ratio Lower Upper

56 100

69 185.3 25.2 37.8#

84 141.2 66.4 99.6#



#33

1,2-Dichloroethane-d4

Concen: 47.639 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. -0.003 min

Lab File: VU045367.D

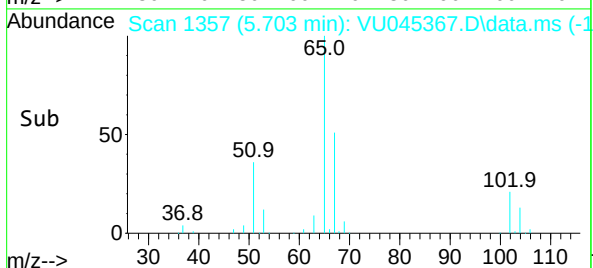
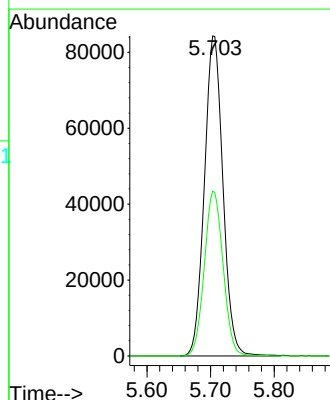
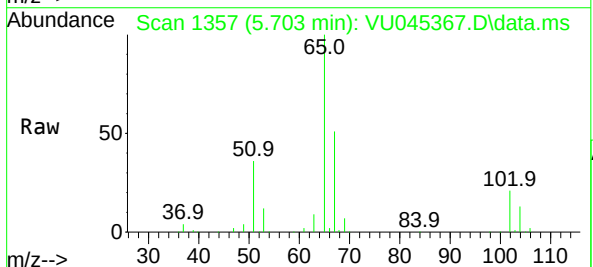
Acq: 22 Oct 2021 16:11

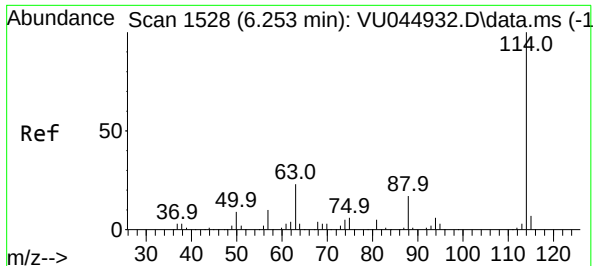
Tgt Ion: 65 Resp: 170711

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045367.D

Acq: 22 Oct 2021 16:11

Tgt Ion:114 Resp: 406578

Ion Ratio Lower Upper

114 100

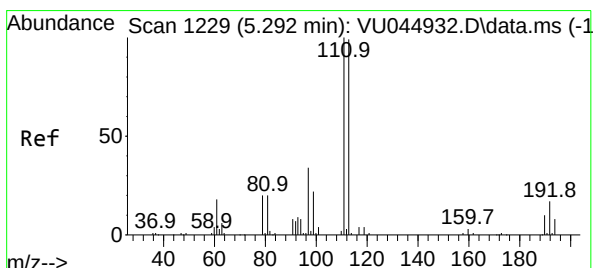
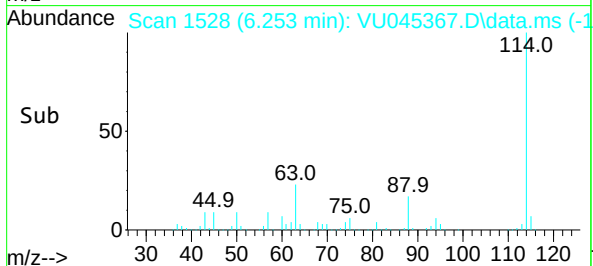
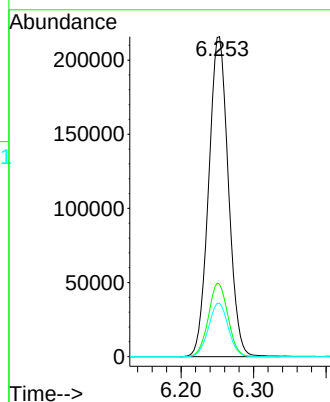
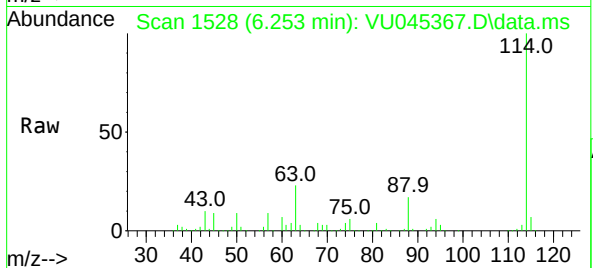
63 22.6 0.0 47.8

88 16.7 0.0 32.8

Instrument :

MSVOA_U

ClientSampleId :



#35

Dibromofluoromethane

Concen: 48.773 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

Lab File: VU045367.D

Acq: 22 Oct 2021 16:11

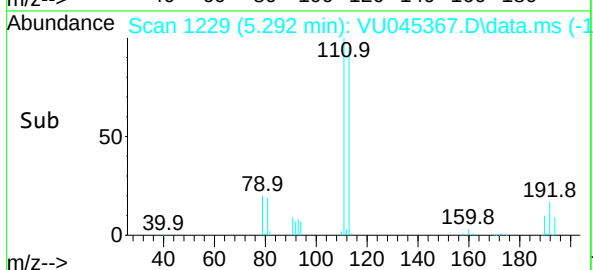
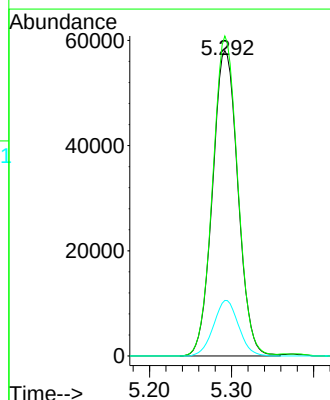
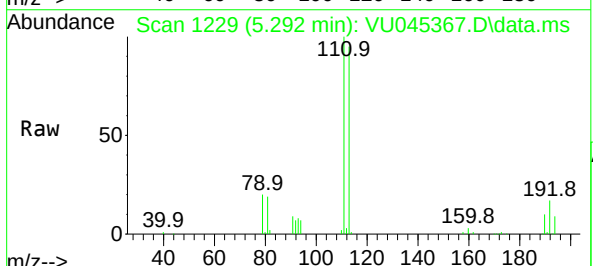
Tgt Ion:113 Resp: 125094

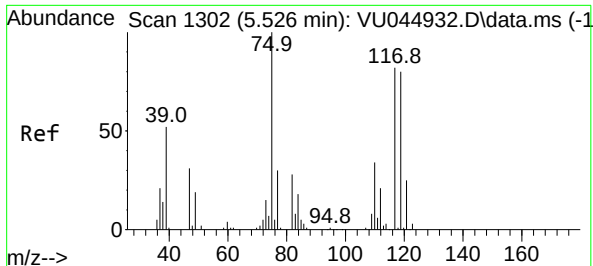
Ion Ratio Lower Upper

113 100

111 103.0 84.1 126.1

192 17.9 14.8 22.2

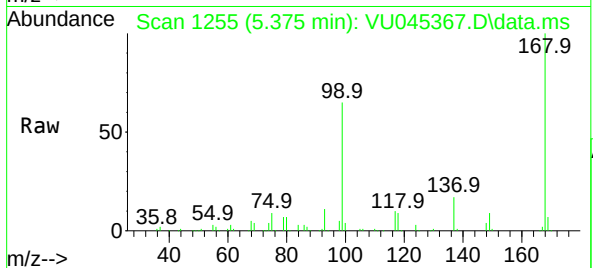




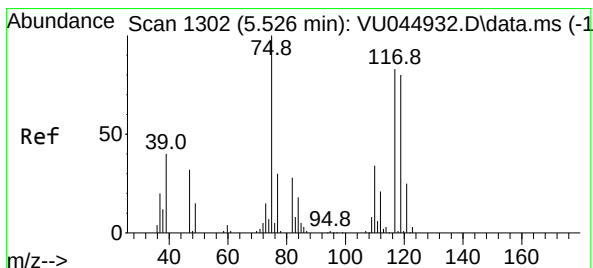
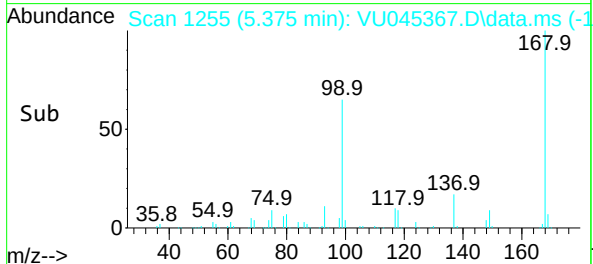
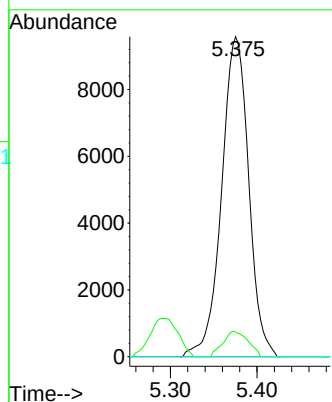
#36

1,1-Dichloropropene
Concen: 4.892 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.151 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Instrument :
MSVOA_U
ClientSampled :

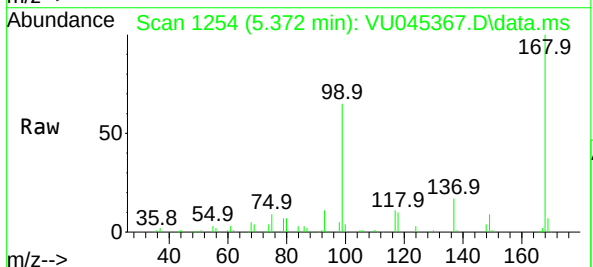


Tgt Ion: 75 Resp: 20800
Ion Ratio Lower Upper
75 100
110 7.3 16.3 48.9#
77 0.0 25.0 37.4#

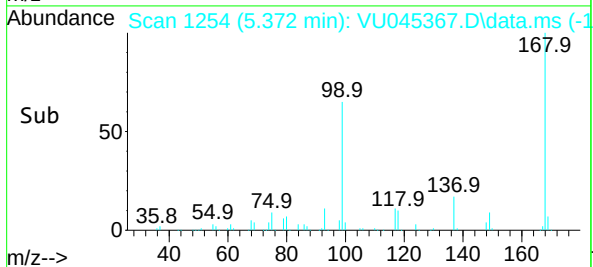
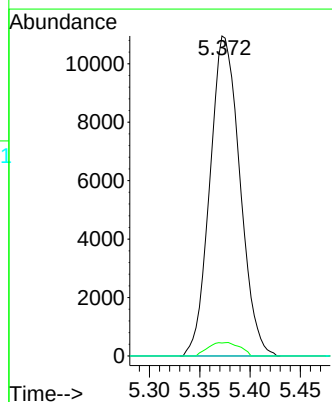


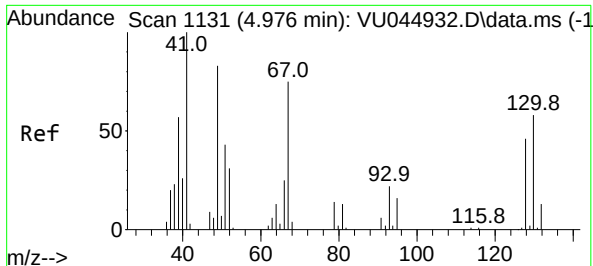
#38

Carbon Tetrachloride
Concen: 6.180 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11



Tgt Ion: 117 Resp: 22739
Ion Ratio Lower Upper
117 100
119 4.1 77.4 116.2#
121 0.0 24.5 36.7#

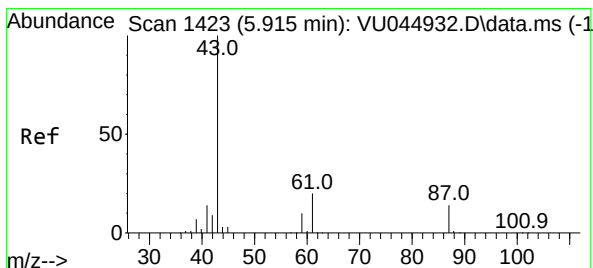
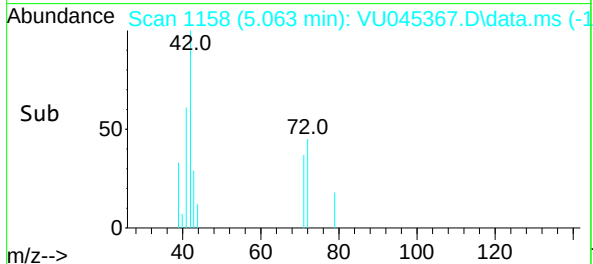
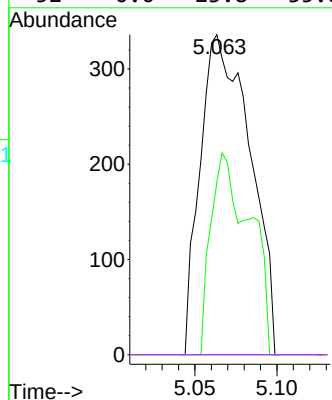
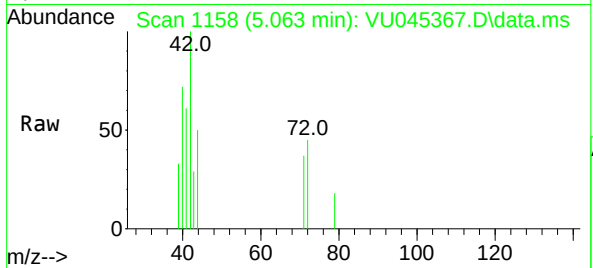




#41
Methacrylonitrile
Concen: 0.245 ug/l
RT: 5.063 min Scan# 1158
Delta R.T. 0.087 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

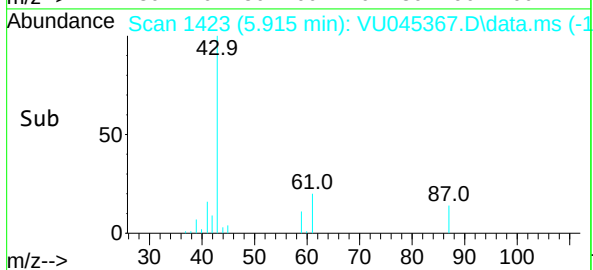
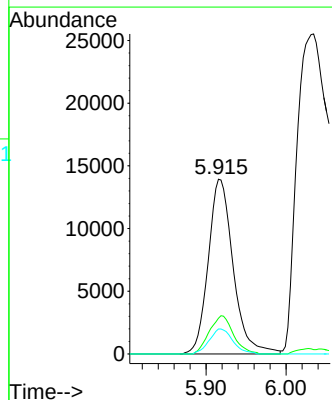
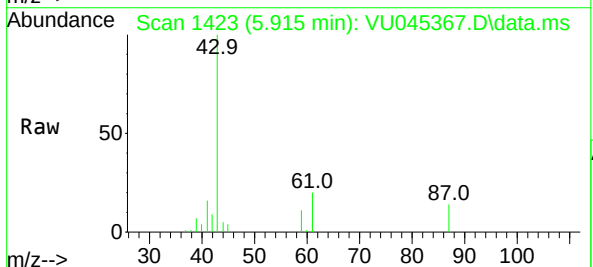
Instrument :
MSVOA_U
ClientSampled :

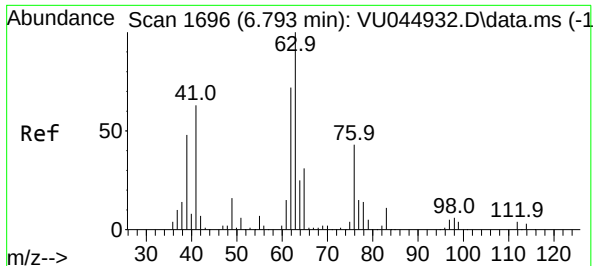
Tgt Ion: 41	Resp: 711
Ion Ratio	Lower Upper
41 100	
39 34.7	44.4 66.6#
67 0.0	58.1 87.1#
52 0.0	23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.566 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 43	Resp: 30180
Ion Ratio	Lower Upper
43 100	
61 21.1	16.1 24.1
87 13.5	10.3 15.5



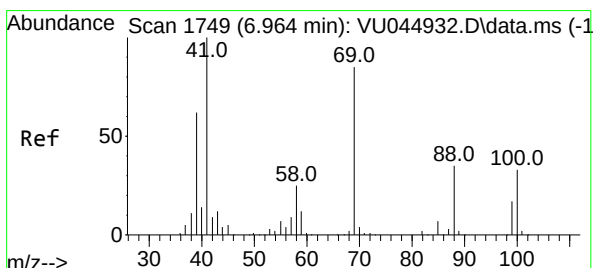
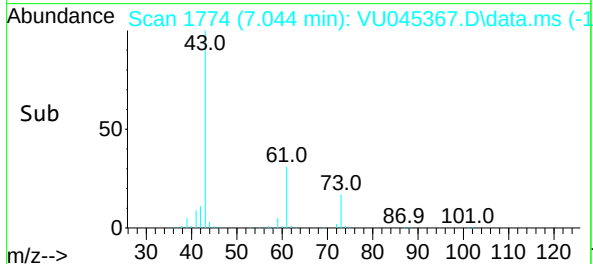
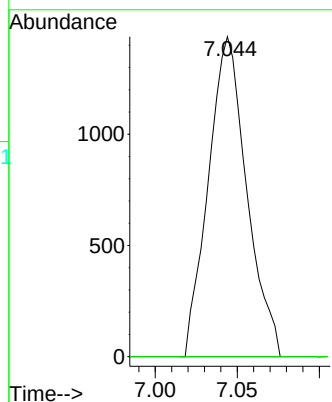
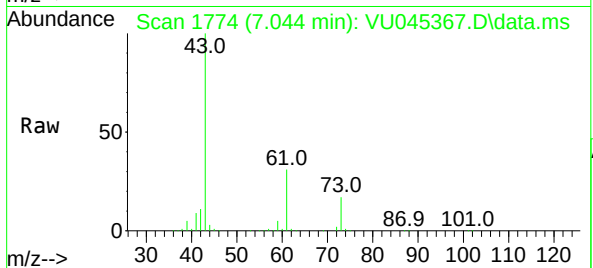


#45

1,2-Dichloropropane
Concen: 0.697 ug/l
RT: 7.044 min Scan# 1774
Delta R.T. 0.251 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Instrument :
MSVOA_U
ClientSampled :

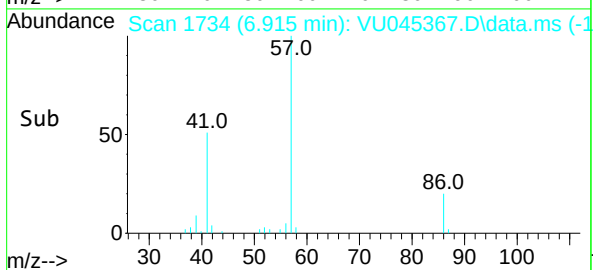
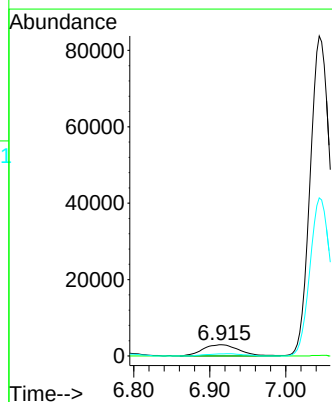
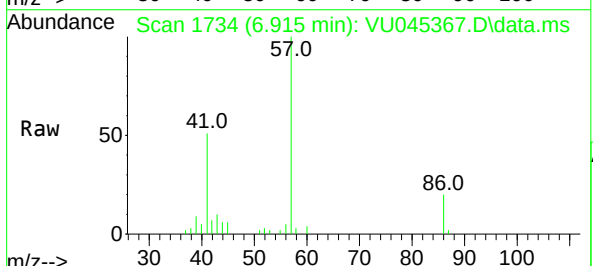
Tgt Ion: 63 Resp: 2340
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

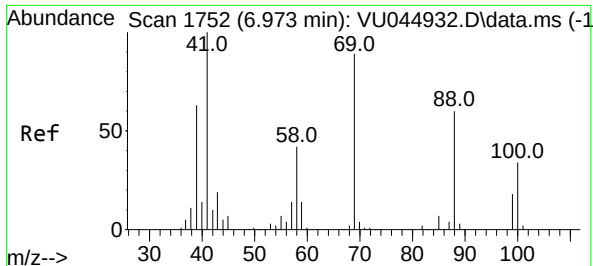


#48

Methyl methacrylate
Concen: 2.371 ug/l
RT: 6.915 min Scan# 1734
Delta R.T. -0.049 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 41 Resp: 9769
Ion Ratio Lower Upper
41 100
69 0.0 65.6 98.4#
39 0.0 46.2 69.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.041 min Scan# 1773

Delta R.T. 0.068 min

Lab File: VU045367.D

Acq: 22 Oct 2021 16:11

Tgt Ion: 88 Resp: 256

Ion Ratio Lower Upper

88 100

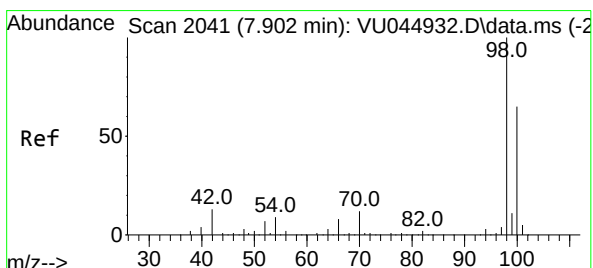
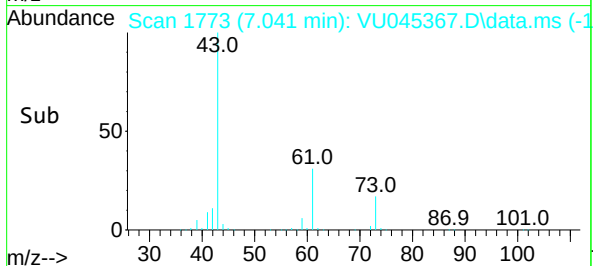
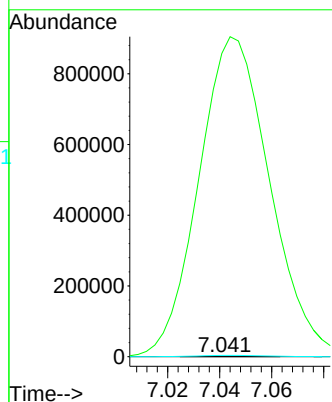
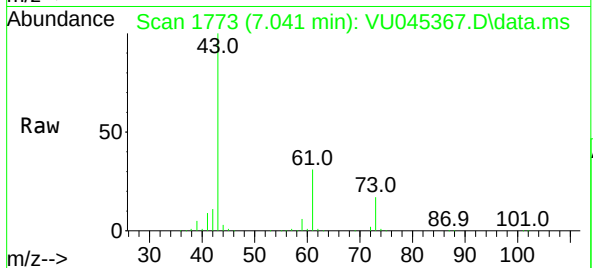
43 676686.7 25.8 38.6#

58 2748.0 61.3 91.9#

Instrument :

MSVOA_U

ClientSampled :



#50

Toluene-d8

Concen: 49.688 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. -0.003 min

Lab File: VU045367.D

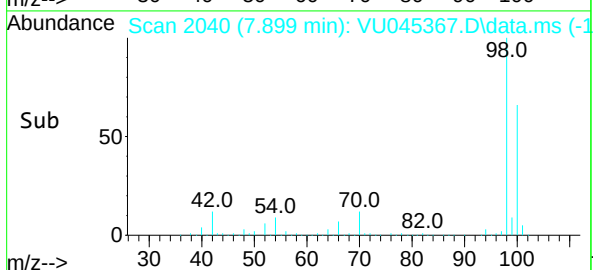
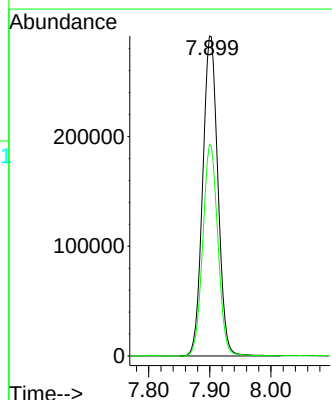
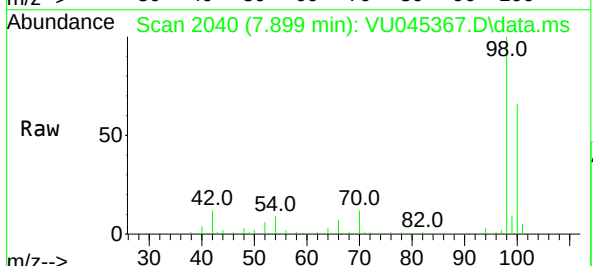
Acq: 22 Oct 2021 16:11

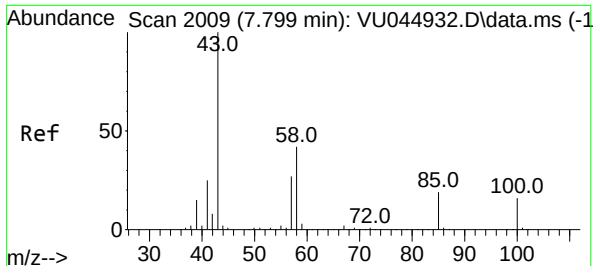
Tgt Ion: 98 Resp: 503543

Ion Ratio Lower Upper

98 100

100 65.9 52.5 78.7

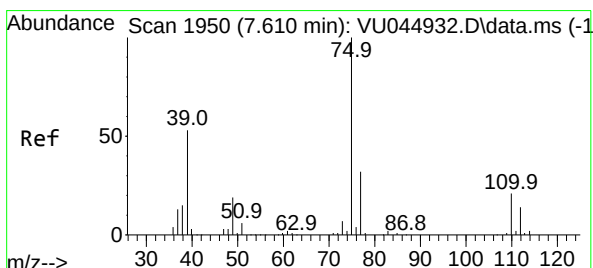
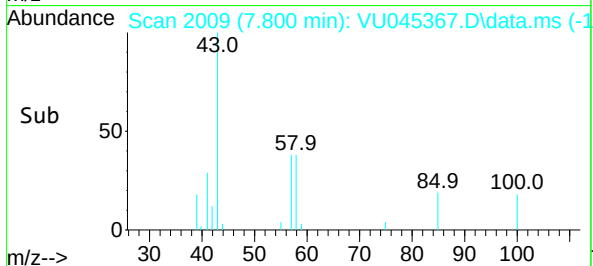
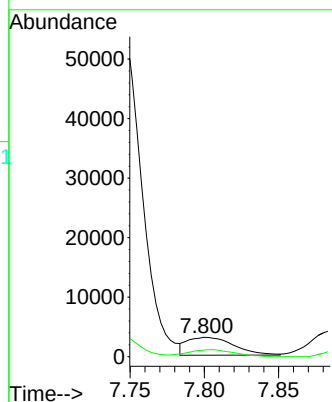
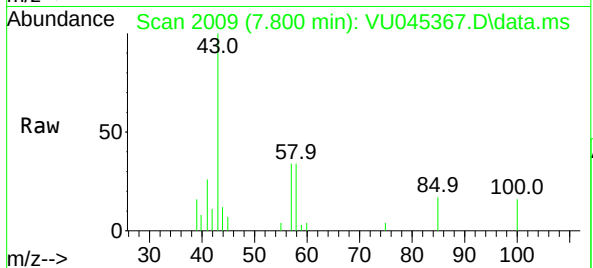




#51
4-Methyl-2-Pentanone
Concen: 1.071 ug/l
RT: 7.800 min Scan# 2009
Delta R.T. 0.001 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

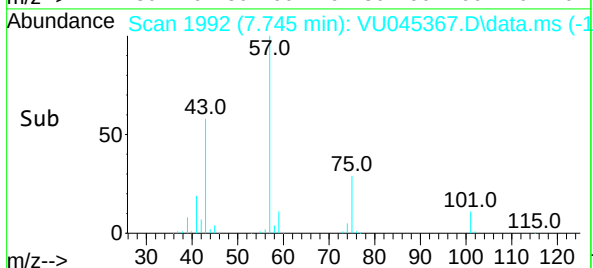
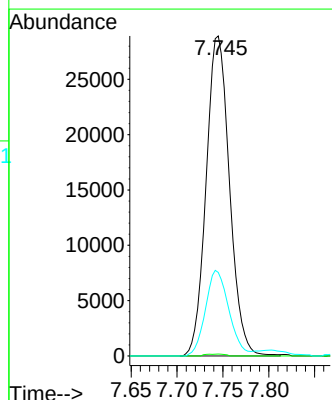
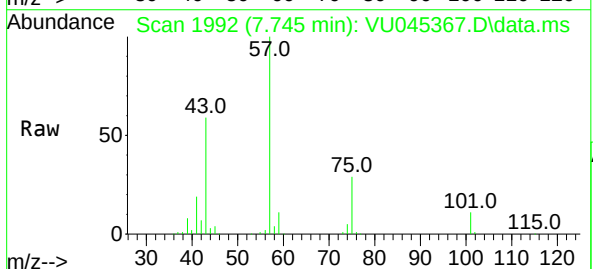
Instrument :
MSVOA_U
ClientSampled :

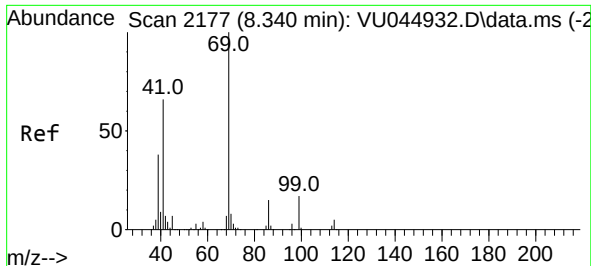
Tgt Ion: 43 Resp: 6601
Ion Ratio Lower Upper
43 100
58 37.8 32.4 48.6



#54
cis-1,3-Dichloropropene
Concen: 9.803 ug/l
RT: 7.745 min Scan# 1992
Delta R.T. 0.135 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 75 Resp: 51276
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.6#
39 26.1 41.4 62.2#

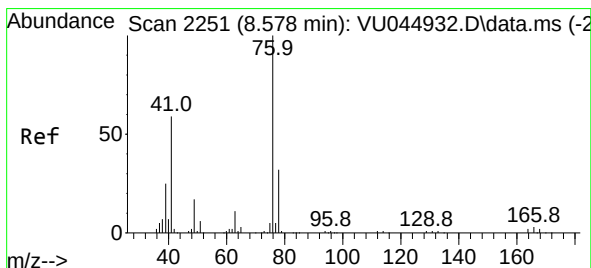
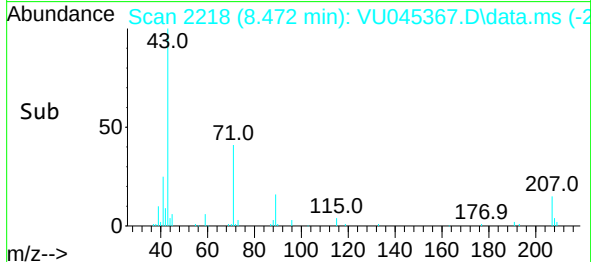
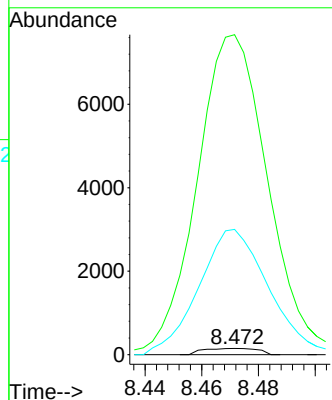
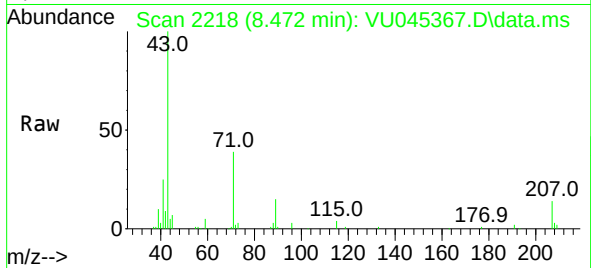




#56
Ethyl methacrylate
Concen: 1.851 ug/l
RT: 8.472 min Scan# 2218
Delta R.T. 0.132 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

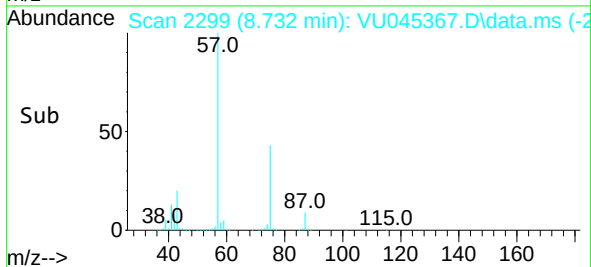
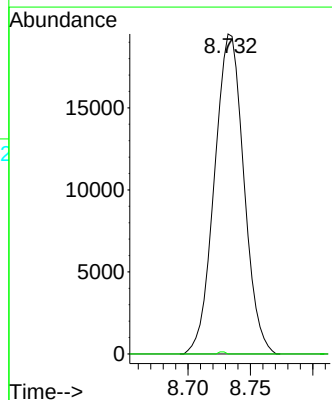
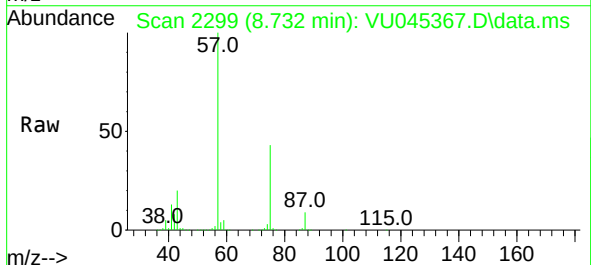
Instrument :
MSVOA_U
ClientSampled :

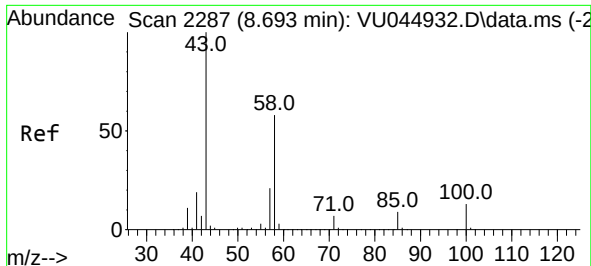
Tgt Ion: 69 Resp: 202
Ion Ratio Lower Upper
69 100
41 6617.8 53.5 80.3#
39 2546.0 31.1 46.7#



#57
1,3-Dichloropropane
Concen: 5.431 ug/l
RT: 8.732 min Scan# 2299
Delta R.T. 0.154 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion: 76 Resp: 32008
Ion Ratio Lower Upper
76 100
78 0.2 25.7 38.5#





#59

2-Hexanone

Concen: 85.378 ug/l

RT: 8.732 min Scan# 2299

Delta R.T. 0.039 min

Lab File: VU045367.D

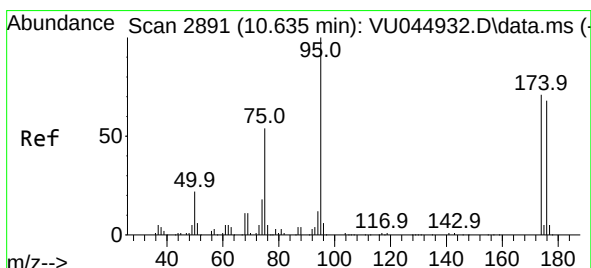
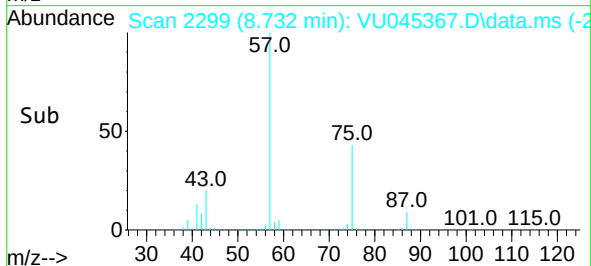
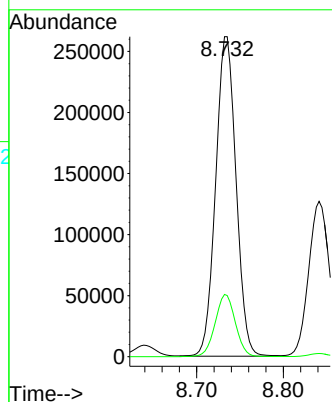
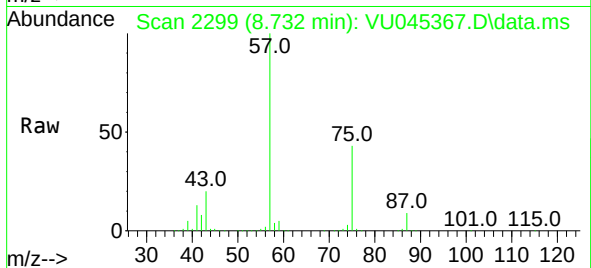
Acq: 22 Oct 2021 16:11

Tgt Ion: 43 Resp: 428392

Ion Ratio Lower Upper

43 100

58 19.4 28.0 84.0#



#62

4-Bromofluorobenzene

Concen: 45.257 ug/l

RT: 10.635 min Scan# 2891

Delta R.T. 0.000 min

Lab File: VU045367.D

Acq: 22 Oct 2021 16:11

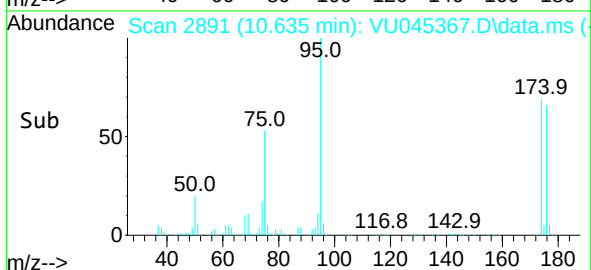
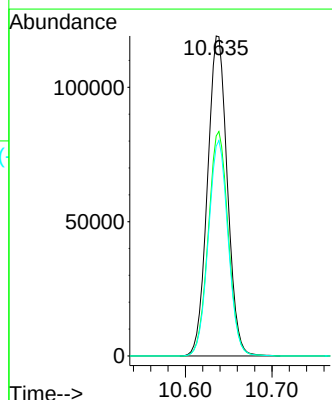
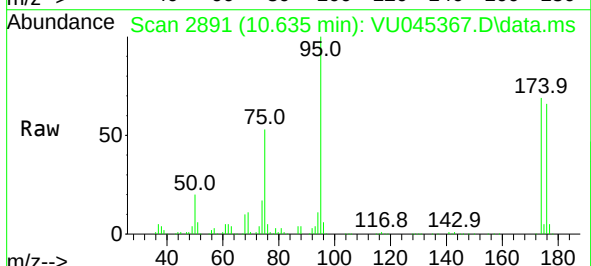
Tgt Ion: 95 Resp: 189349

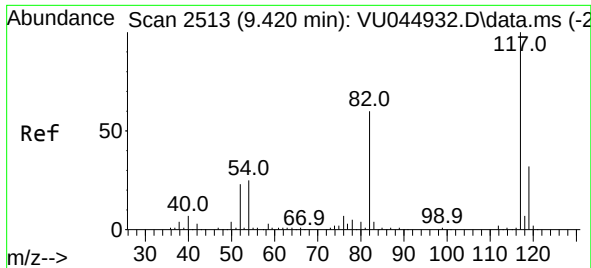
Ion Ratio Lower Upper

95 100

174 70.6 0.0 146.6

176 67.2 0.0 141.2

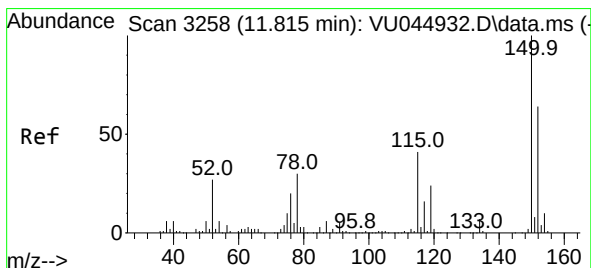
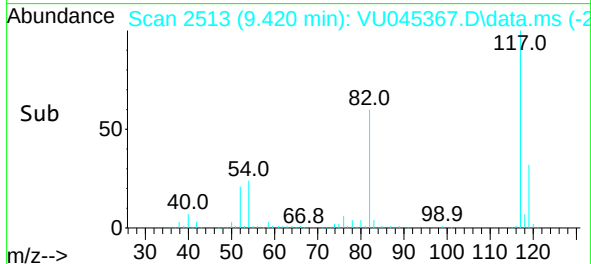
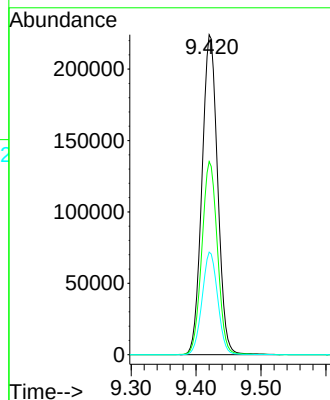
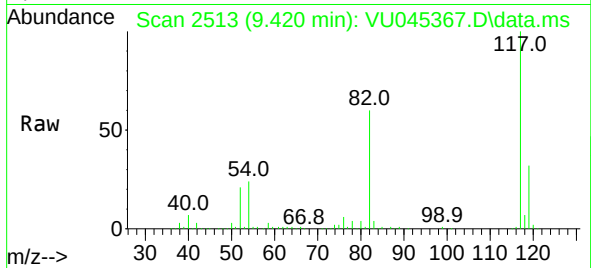




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

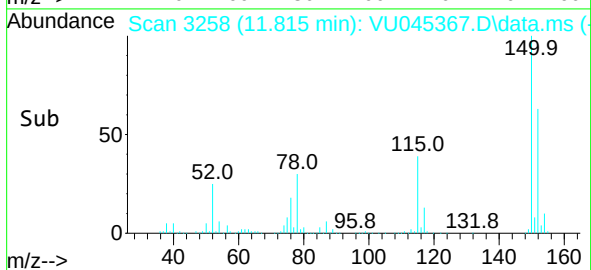
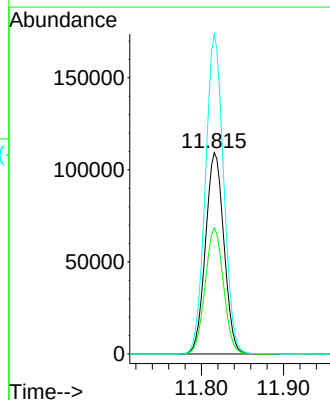
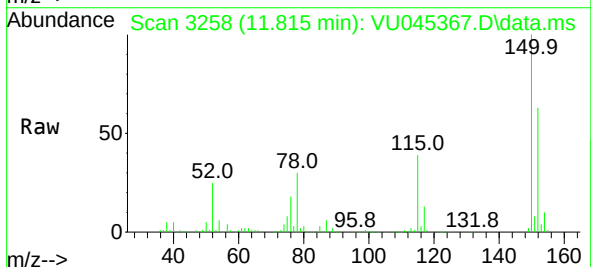
Instrument :
MSVOA_U
ClientSampleId :

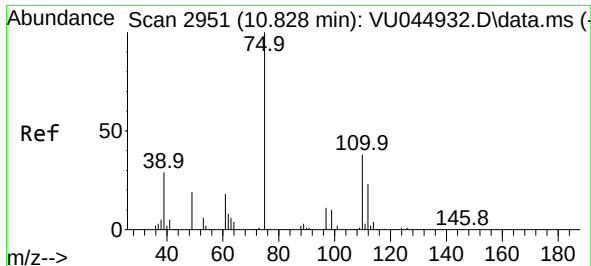
Tgt Ion:117 Resp: 376832
Ion Ratio Lower Upper
117 100
82 60.3 47.8 71.8
119 32.1 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

Tgt Ion:152 Resp: 170708
Ion Ratio Lower Upper
152 100
115 62.2 43.5 130.7
150 156.9 0.0 350.0

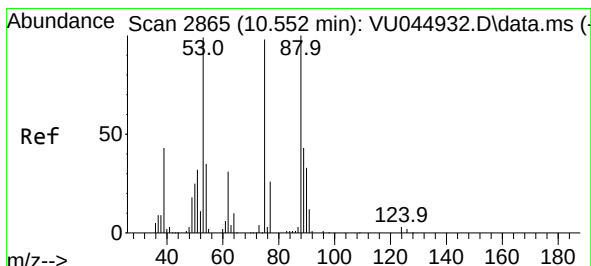
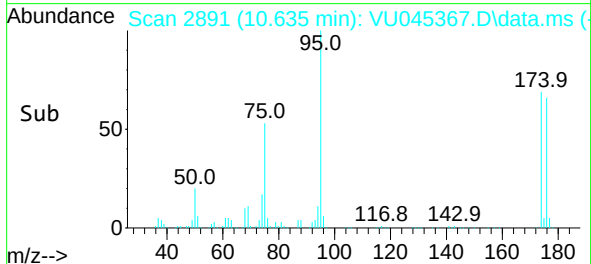
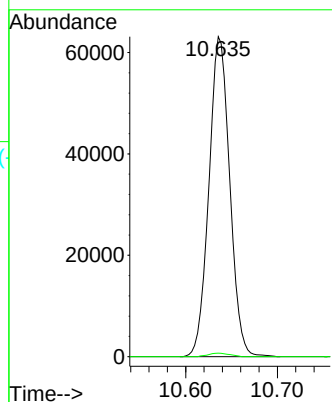
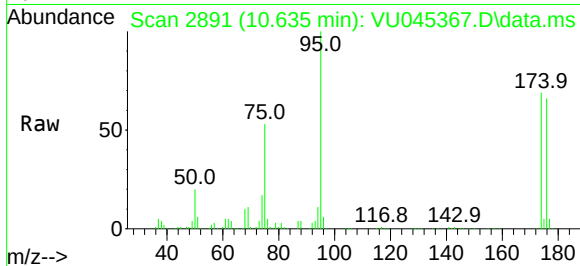




#76
1,2,3-Trichloropropane
Concen: 20.002 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

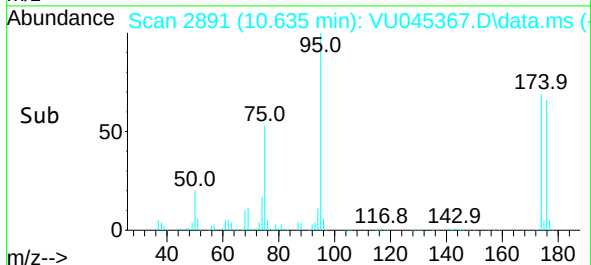
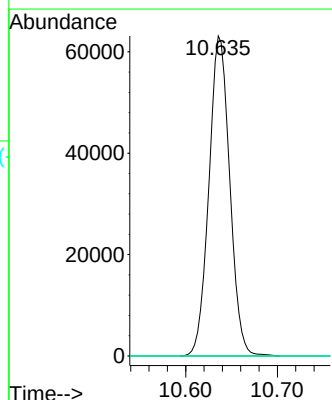
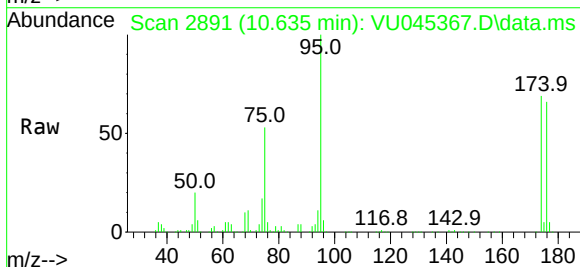
Instrument :
MSVOA_U
ClientSampled :

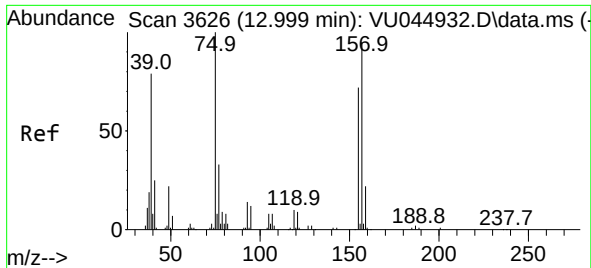
Tgt Ion: 75 Resp: 99594
Ion Ratio Lower Upper
75 100
77 1.1 17.9 53.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.509 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. 0.083 min
Lab File: VU045367.D
Acq: 22 Oct 2021 16:11

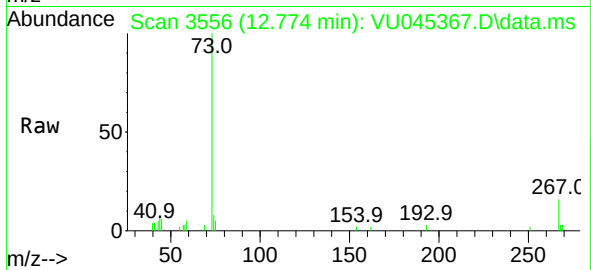
Tgt Ion: 75 Resp: 99594
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.294 ug/l
 RT: 12.774 min Scan# 3556
 Delta R.T. -0.225 min
 Lab File: VU045367.D
 Acq: 22 Oct 2021 16:11

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 382
 Ion Ratio Lower Upper
 75 100
 155 0.0 36.9 110.6#
 157 0.0 47.8 143.3#

