

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102221\
 Data File : VU045366.D
 Acq On : 22 Oct 2021 15:48
 Operator : SY/MD
 Sample : M4315-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 01:12:48 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)

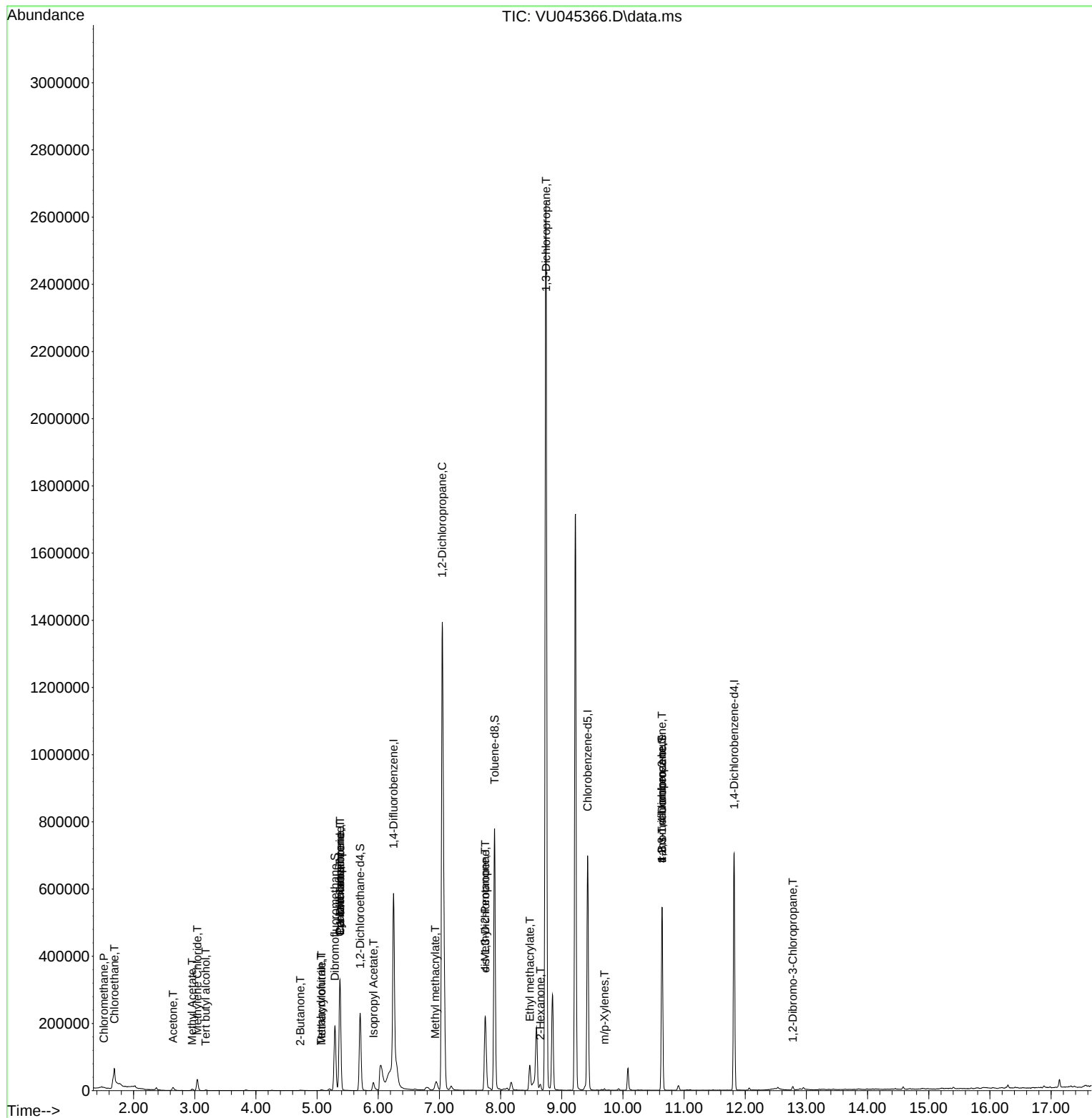
Internal Standards						
1) Pentafluorobenzene	5.375	168	222481	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	419457	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.423	117	389800	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.819	152	172326	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	176762	47.729	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.460%		
35) Dibromofluoromethane	5.292	113	128168	48.437	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.880%		
50) Toluene-d8	7.902	98	519826	49.720	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.440%		
62) 4-Bromofluorobenzene	10.639	95	192745	44.654	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.300%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	885	0.248	ug/l	94
6) Chloroethane	1.684	64	160341	58.576	ug/l #	50
11) Tert butyl alcohol	3.179	59	1205	1.134	ug/l #	72
16) Acetone	2.645	43	14537	6.613	ug/l	94
18) Methyl Acetate	2.957	43	5808	0.904	ug/l	95
20) Methylene Chloride	3.041	84	16859	5.092	ug/l	91
25) 2-Butanone	4.726	43	2061	0.660	ug/l #	90
29) Tetrahydrofuran	5.067	42	1680	0.904	ug/l #	71
31) Cyclohexane	5.372	56	5398	0.960	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	20473	4.667	ug/l #	49
38) Carbon Tetrachloride	5.375	117	22843	6.018	ug/l #	16
41) Methacrylonitrile	5.073	41	952	0.319	ug/l #	44
43) Isopropyl Acetate	5.922	43	32297	3.699	ug/l	99
45) 1,2-Dichloropropane	7.047	63	2335	0.674	ug/l #	45
48) Methyl methacrylate	6.935	41	10391	2.445	ug/l #	14
49) 1,4-Dioxane	7.034	88	181	Below Cal	#	1
51) 4-Methyl-2-Pentanone	7.748	43	107343	16.887	ug/l #	45
54) cis-1,3-Dichloropropene	7.751	75	53059	9.832	ug/l #	57
56) Ethyl methacrylate	8.481	69	258	1.858	ug/l #	1
57) 1,3-Dichloropropane	8.742	76	33414	5.495	ug/l #	43
59) 2-Hexanone	8.648	43	16770	3.240	ug/l #	23
68) m/p-Xylenes	9.700	106	1183	0.202	ug/l	87
76) 1,2,3-Trichloropropane	10.639	75	100296	19.954	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.639	75	100296	55.375	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	12.777	75	401	0.306	ug/l #	7

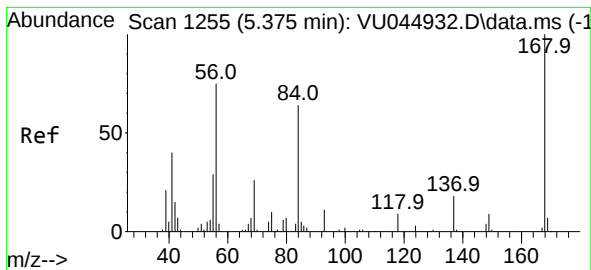
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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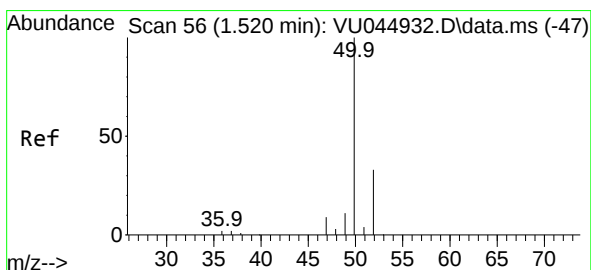
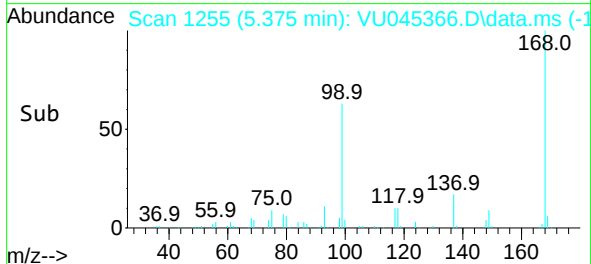
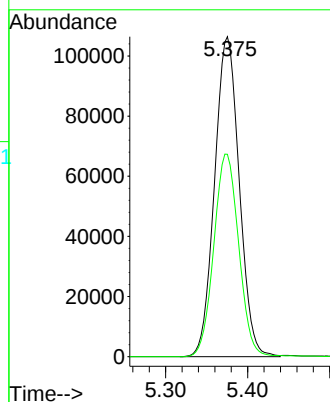
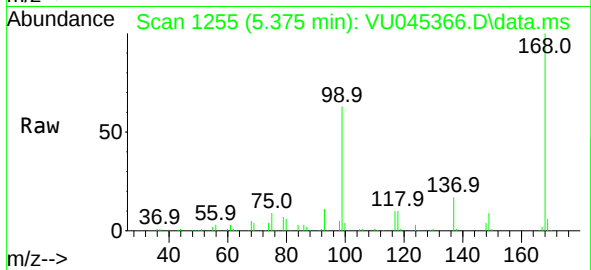




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

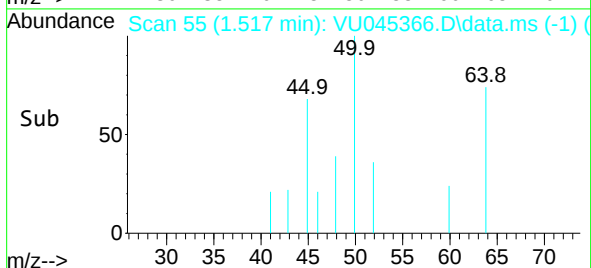
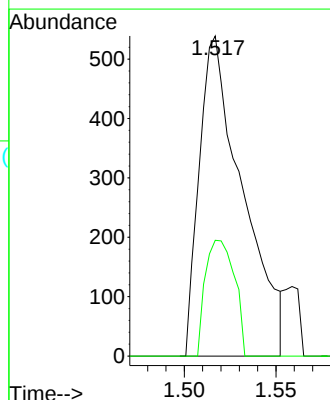
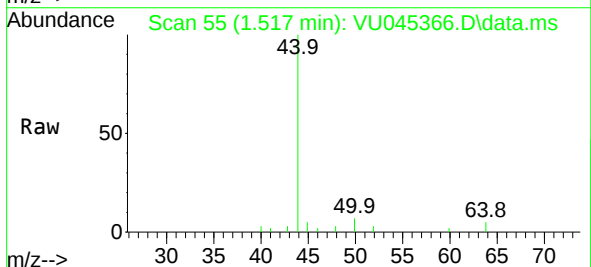
Instrument :
MSVOA_U
ClientSampled :

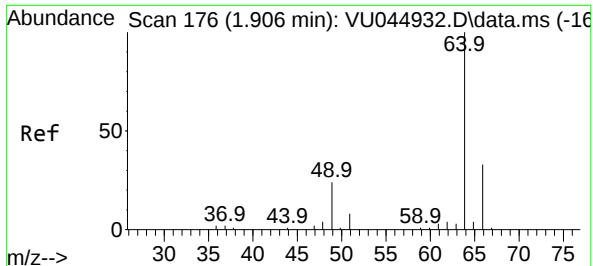
Tgt Ion:168 Resp: 222481
Ion Ratio Lower Upper
168 100
99 63.3 51.4 77.0



#3
Chloromethane
Concen: 0.248 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 50 Resp: 885
Ion Ratio Lower Upper
50 100
52 36.2 26.3 39.5

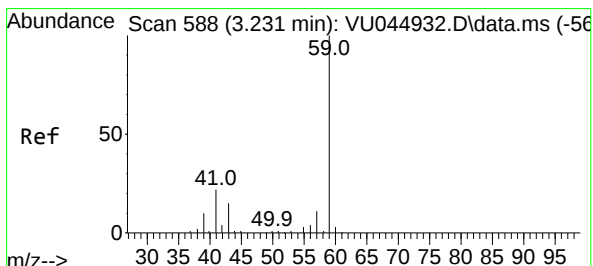
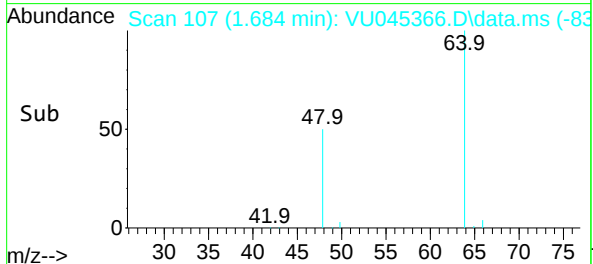
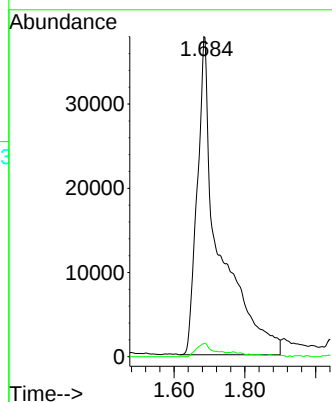
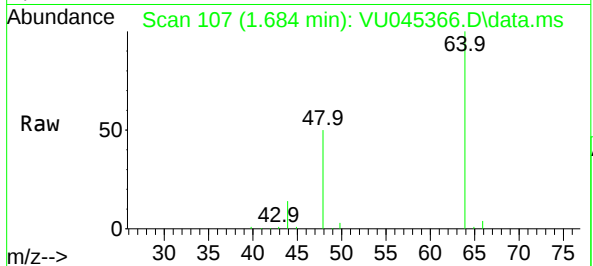




#6
Chloroethane
Concen: 58.576 ug/l
RT: 1.684 min Scan# 107
Delta R.T. -0.222 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

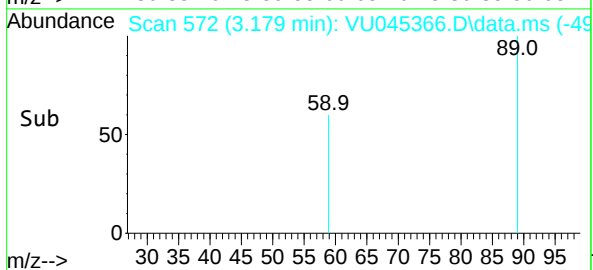
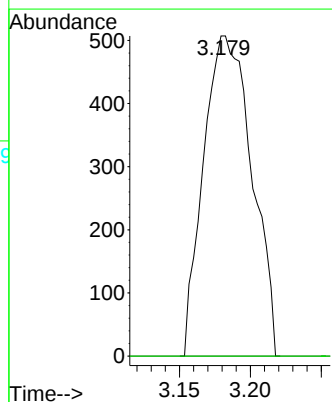
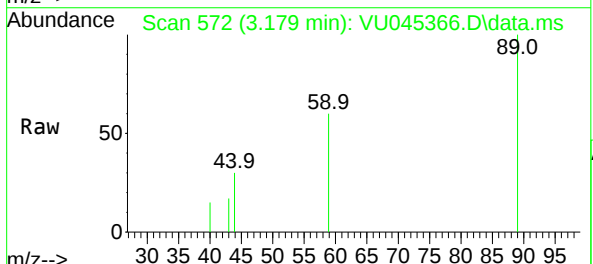
Instrument :
MSVOA_U
ClientSampled :

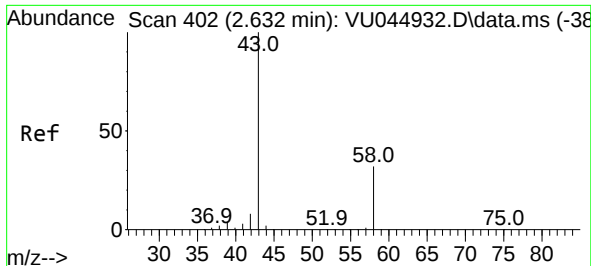
Tgt Ion: 64 Resp: 160341
Ion Ratio Lower Upper
64 100
66 4.2 25.8 38.8#



#11
Tert butyl alcohol
Concen: 1.134 ug/l
RT: 3.179 min Scan# 572
Delta R.T. -0.052 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 59 Resp: 1205
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

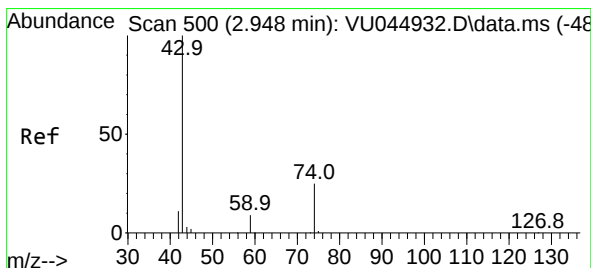
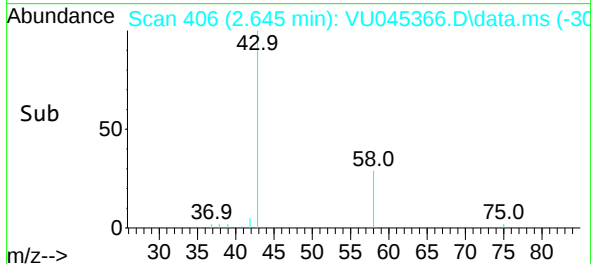
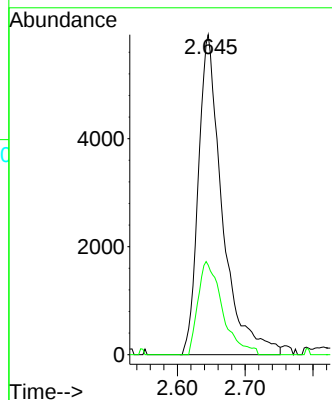
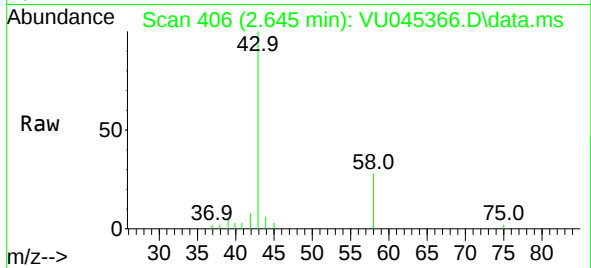




#16
Acetone
Concen: 6.613 ug/l
RT: 2.645 min Scan# 406
Delta R.T. 0.013 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

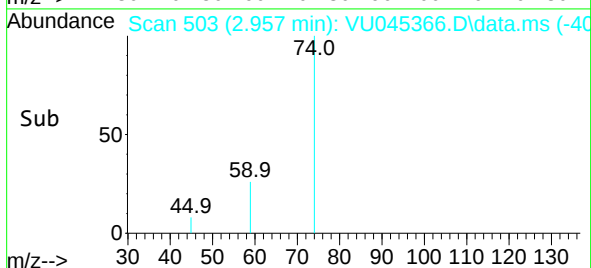
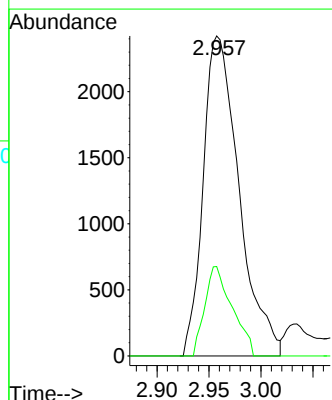
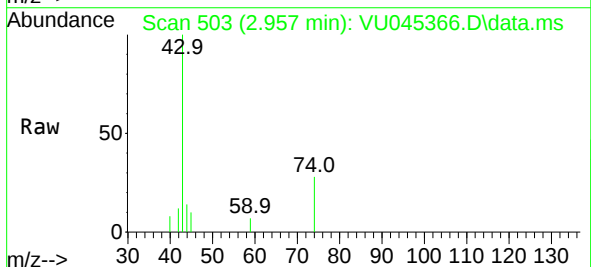
Instrument :
MSVOA_U
ClientSampled :

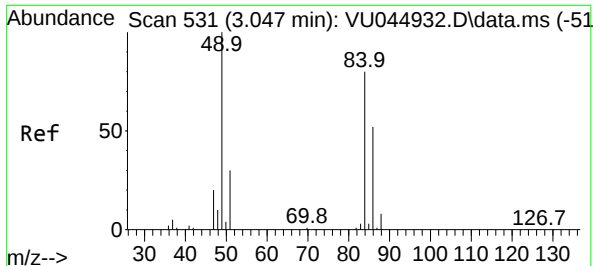
Tgt Ion: 43 Resp: 14537
Ion Ratio Lower Upper
43 100
58 28.0 25.2 37.8



#18
Methyl Acetate
Concen: 0.904 ug/l
RT: 2.957 min Scan# 503
Delta R.T. 0.009 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 43 Resp: 5808
Ion Ratio Lower Upper
43 100
74 21.3 19.0 28.6





#20

Methylene Chloride

Concen: 5.092 ug/l

RT: 3.041 min Scan# 529

Delta R.T. -0.006 min

Lab File: VU045366.D

Acq: 22 Oct 2021 15:48

Tgt Ion: 84 Resp: 16859

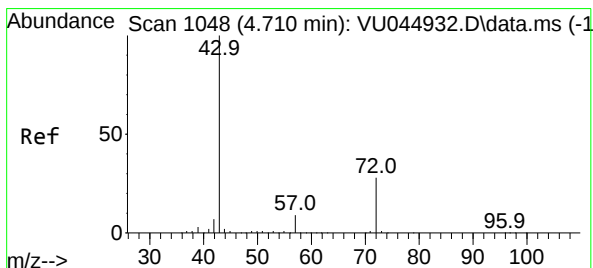
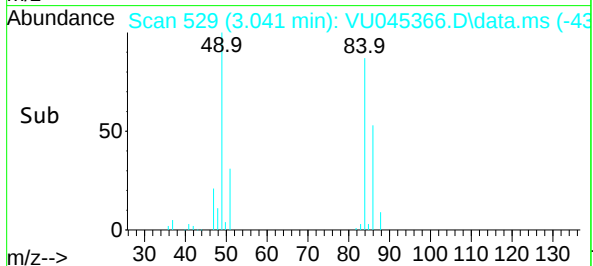
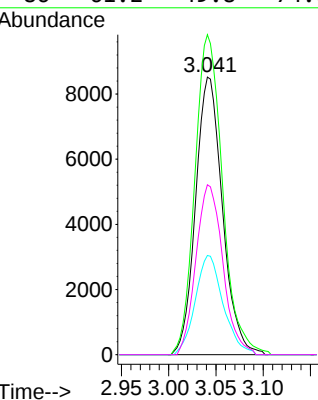
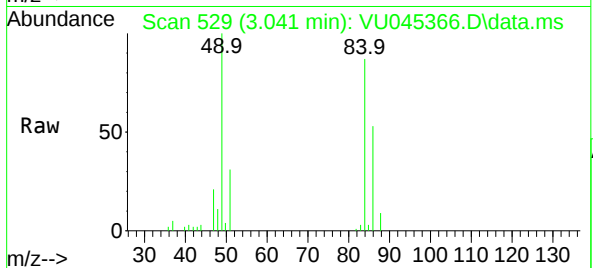
Ion Ratio Lower Upper

84 100

49 115.3 104.9 157.3

51 35.7 31.8 47.8

86 61.2 49.8 74.6



#25

2-Butanone

Concen: 0.660 ug/l

RT: 4.726 min Scan# 1053

Delta R.T. 0.016 min

Lab File: VU045366.D

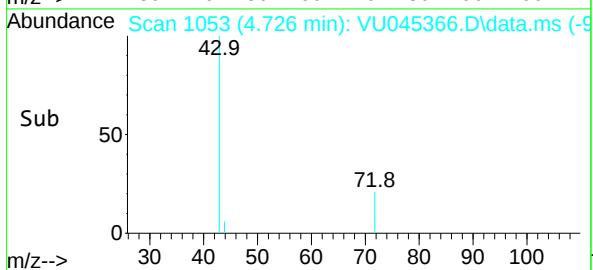
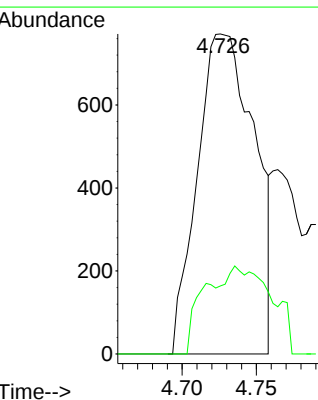
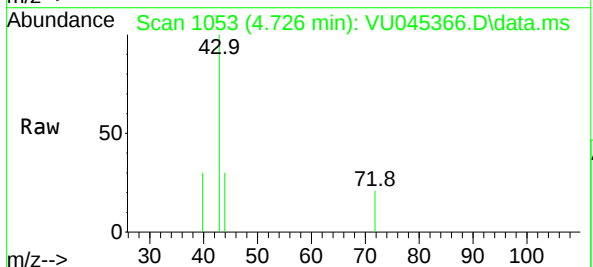
Acq: 22 Oct 2021 15:48

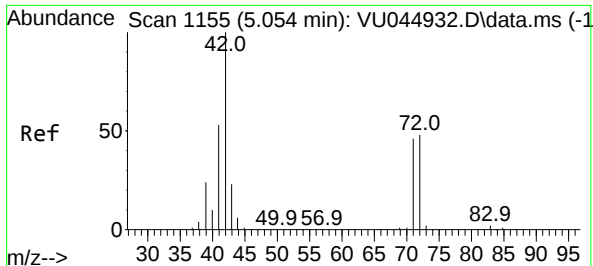
Tgt Ion: 43 Resp: 2061

Ion Ratio Lower Upper

43 100

72 21.3 21.3 31.9#





#29

Tetrahydrofuran

Concen: 0.904 ug/l

RT: 5.067 min Scan# 1159

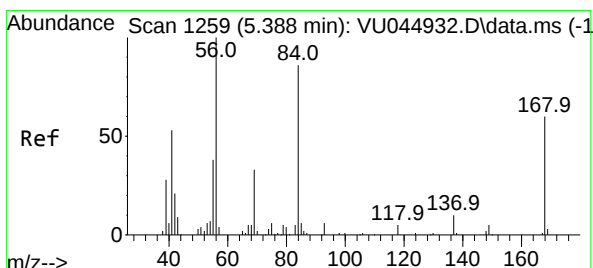
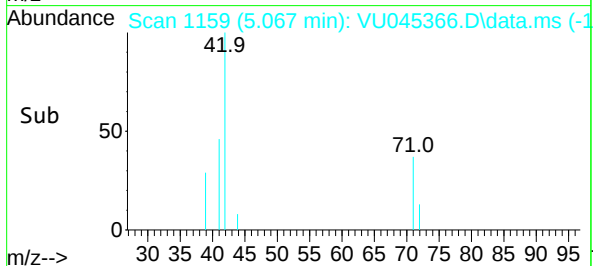
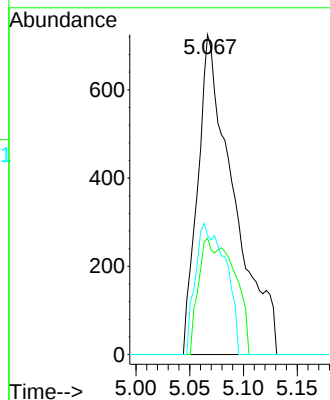
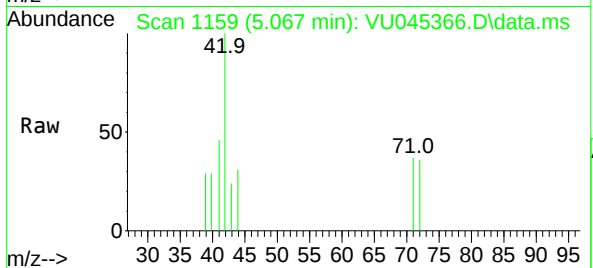
Delta R.T. 0.013 min

Lab File: VU045366.D

Acq: 22 Oct 2021 15:48

Tgt Ion:	42	Resp:	1680
Ion	Ratio	Lower	Upper
42	100		
72	16.3	36.2	54.4#
71	34.3	34.1	51.1

Instrument :
MSVOA_U
ClientSampled :



#31

Cyclohexane

Concen: 0.960 ug/l

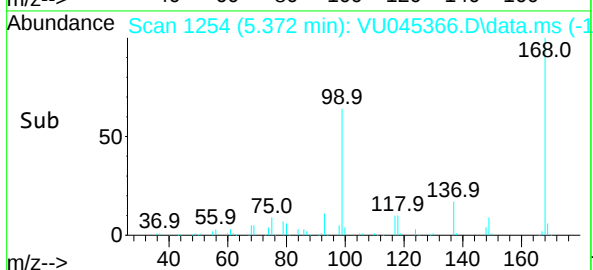
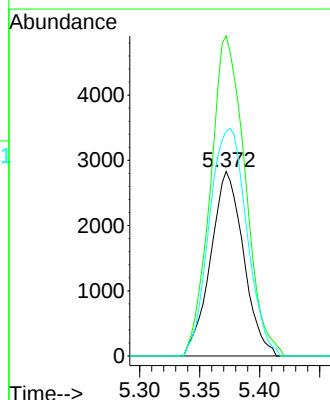
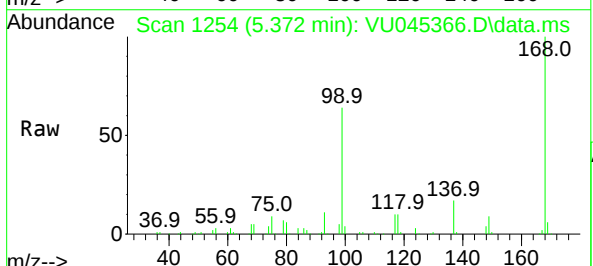
RT: 5.372 min Scan# 1254

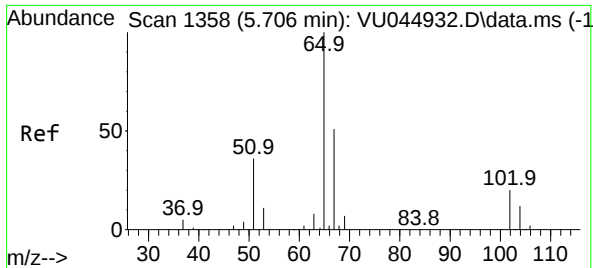
Delta R.T. -0.016 min

Lab File: VU045366.D

Acq: 22 Oct 2021 15:48

Tgt Ion:	56	Resp:	5398
Ion	Ratio	Lower	Upper
56	100		
69	173.5	25.2	37.8#
84	121.8	66.4	99.6#

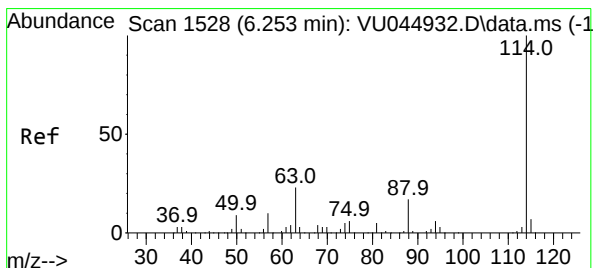
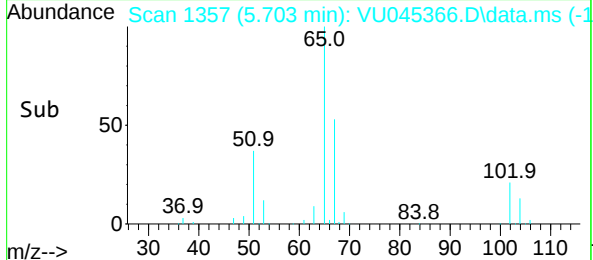
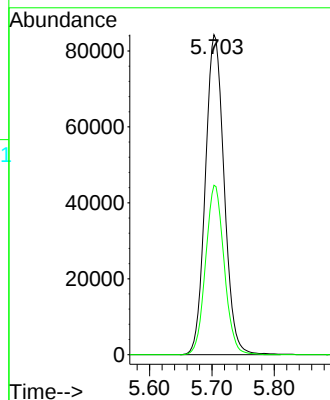
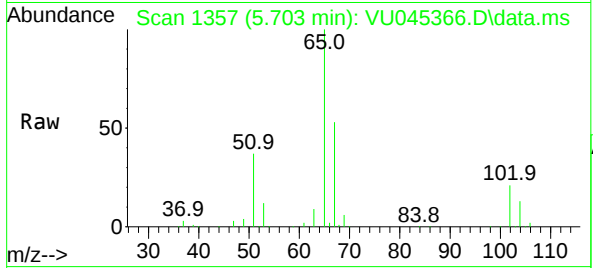




#33
1,2-Dichloroethane-d4
Concen: 47.729 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

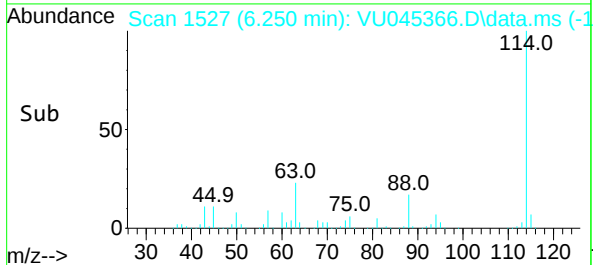
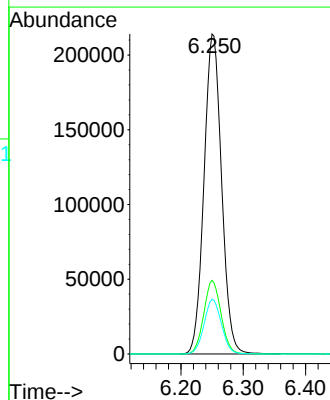
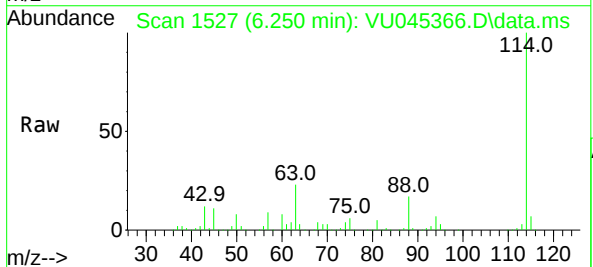
Instrument :
MSVOA_U
ClientSampleId :

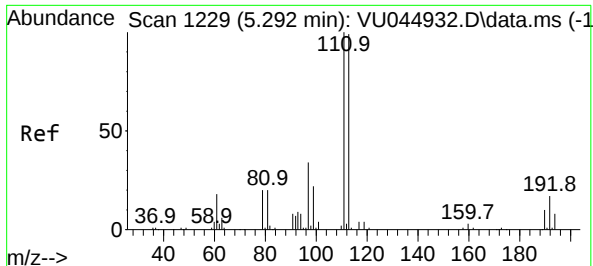
Tgt Ion: 65 Resp: 176762
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.250 min Scan# 1527
Delta R.T. -0.003 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 114 Resp: 419457
Ion Ratio Lower Upper
114 100
63 23.0 0.0 47.8
88 17.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.437 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

Lab File: VU045366.D

Acq: 22 Oct 2021 15:48

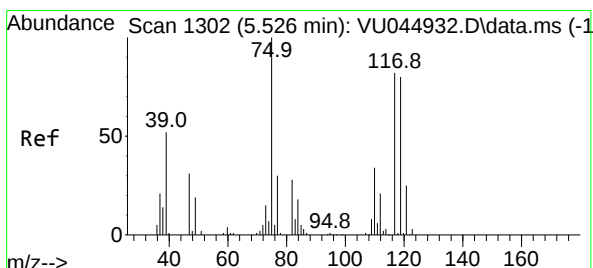
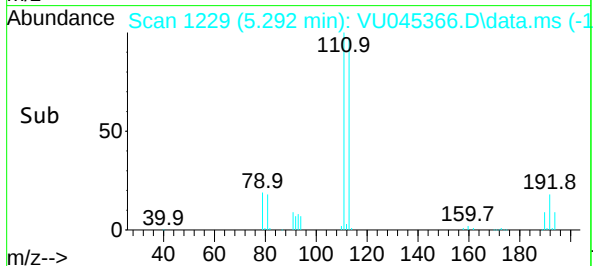
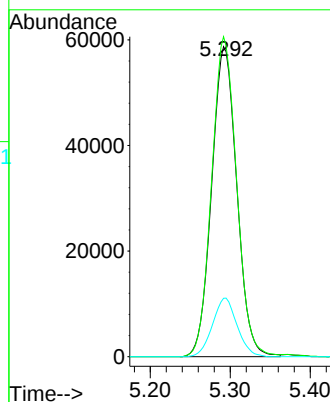
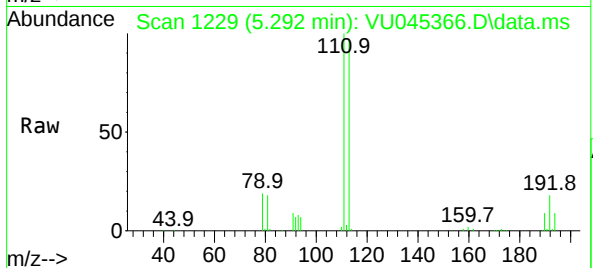
Tgt Ion:113 Resp: 128168

Ion Ratio Lower Upper

113 100

111 102.4 84.1 126.1

192 18.5 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.667 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU045366.D

Acq: 22 Oct 2021 15:48

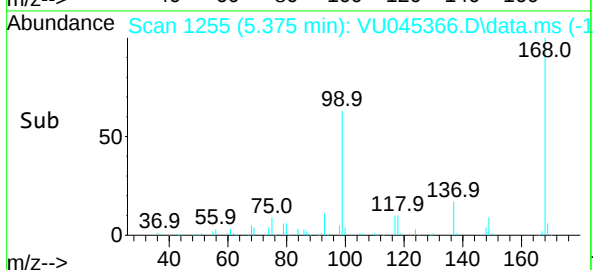
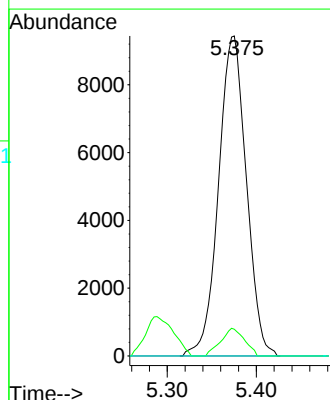
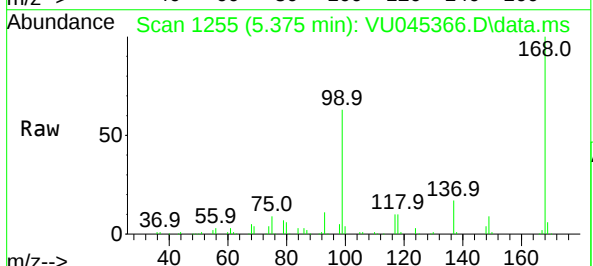
Tgt Ion: 75 Resp: 20473

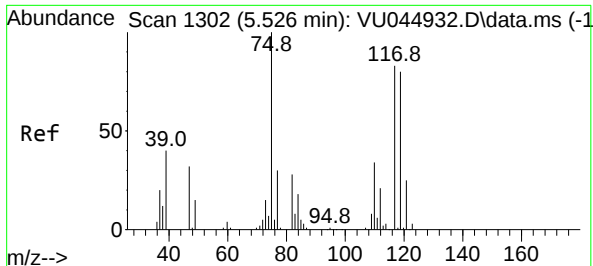
Ion Ratio Lower Upper

75 100

110 7.3 16.3 48.9#

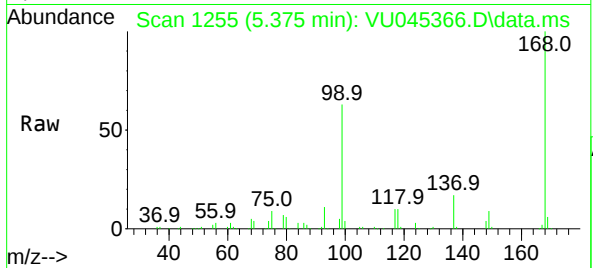
77 0.0 25.0 37.4#



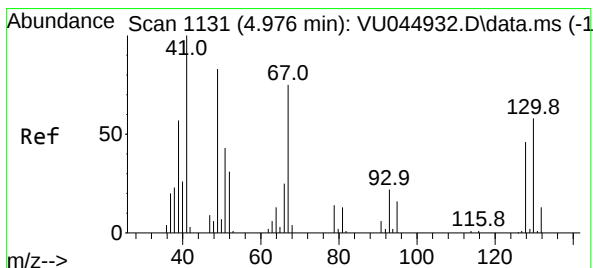
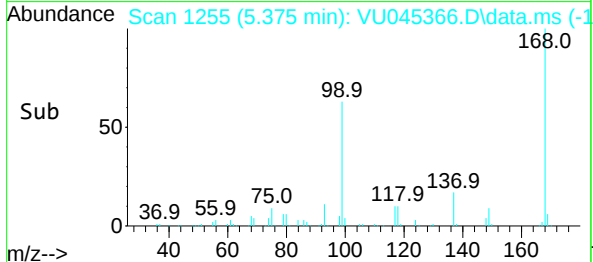
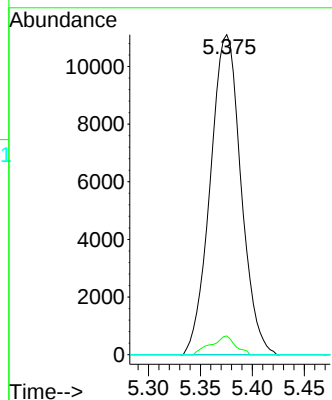


#38
Carbon Tetrachloride
Concen: 6.018 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.151 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Instrument :
MSVOA_U
ClientSampleId :

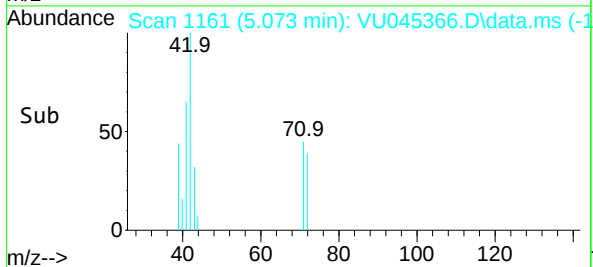
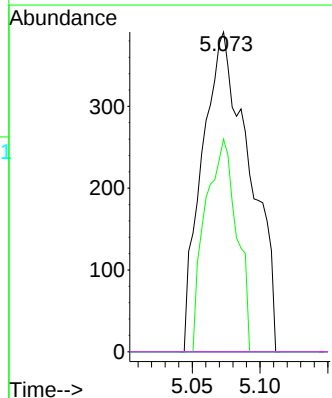
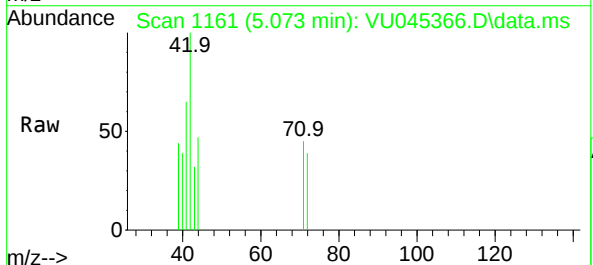


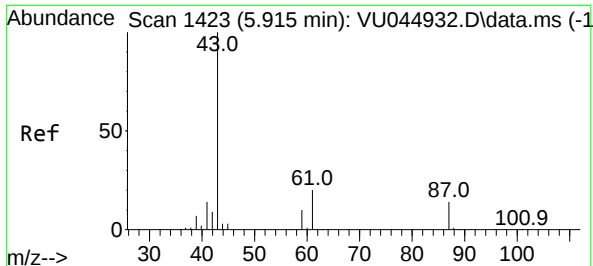
Tgt Ion:117 Resp: 22843
Ion Ratio Lower Upper
117 100
119 5.9 77.4 116.2#
121 0.0 24.5 36.7#



#41
Methacrylonitrile
Concen: 0.319 ug/l
RT: 5.073 min Scan# 1161
Delta R.T. 0.097 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 41 Resp: 952
Ion Ratio Lower Upper
41 100
39 43.9 44.4 66.6#
67 0.0 58.1 87.1#
52 0.0 23.8 35.8#

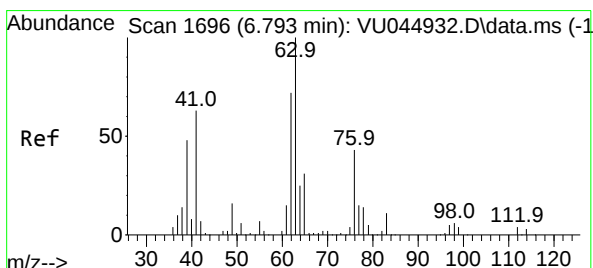
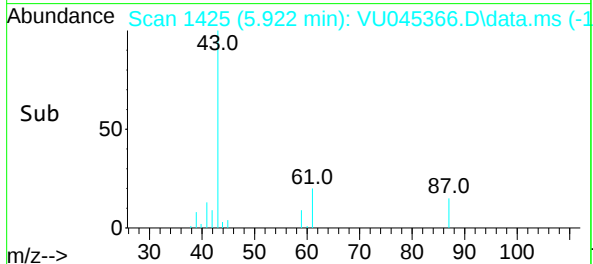
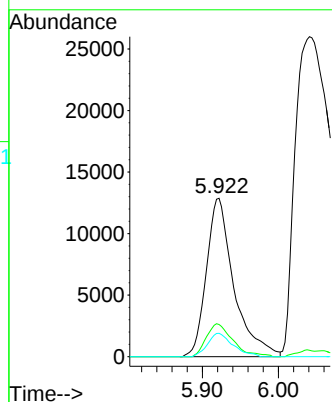
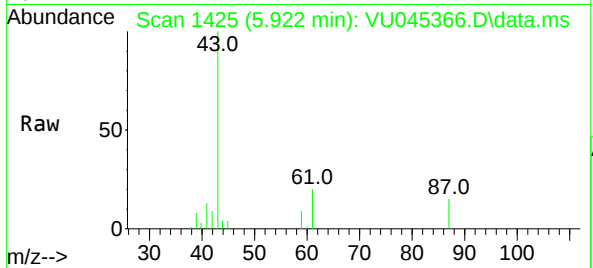




#43
Isopropyl Acetate
Concen: 3.699 ug/l
RT: 5.922 min Scan# 1425
Delta R.T. 0.007 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

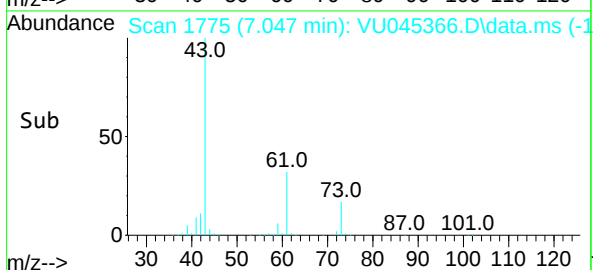
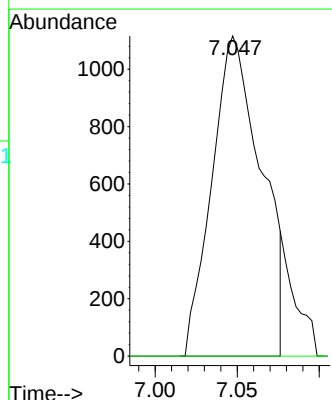
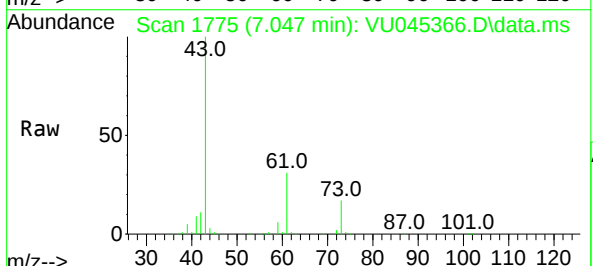
Instrument :
MSVOA_U
ClientSampled :

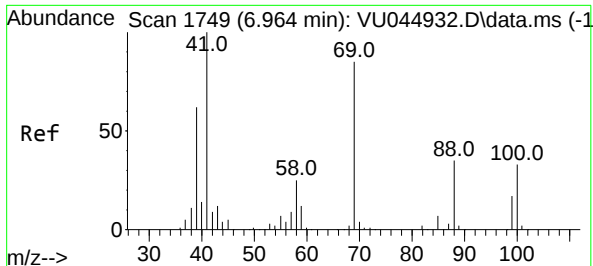
Tgt Ion: 43	Resp: 32297
Ion Ratio	Lower Upper
43 100	
61 20.1	16.1 24.1
87 13.6	10.3 15.5



#45
1,2-Dichloropropane
Concen: 0.674 ug/l
RT: 7.047 min Scan# 1775
Delta R.T. 0.254 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 63	Resp: 2335
Ion Ratio	Lower Upper
63 100	
65 0.0	23.9 35.9#

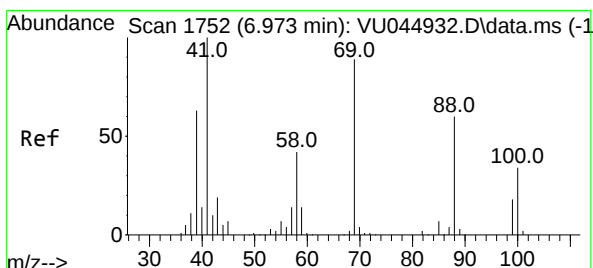
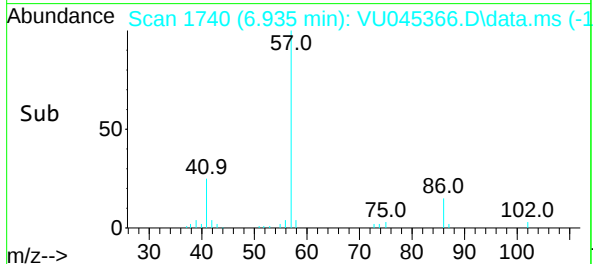
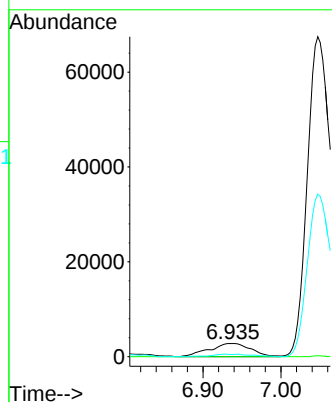
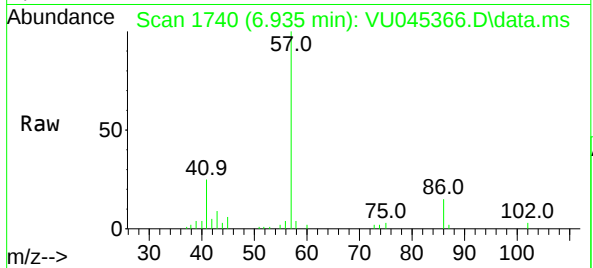




#48
Methyl methacrylate
Concen: 2.445 ug/l
RT: 6.935 min Scan# 1740
Delta R.T. -0.029 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

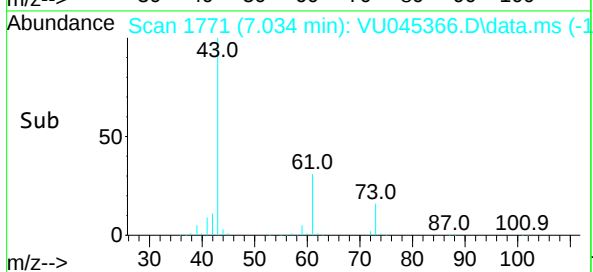
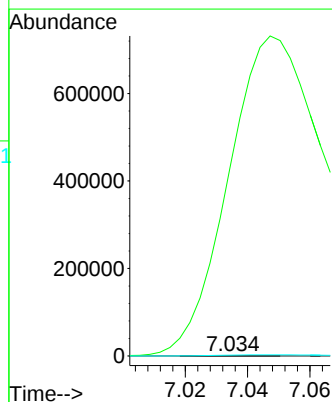
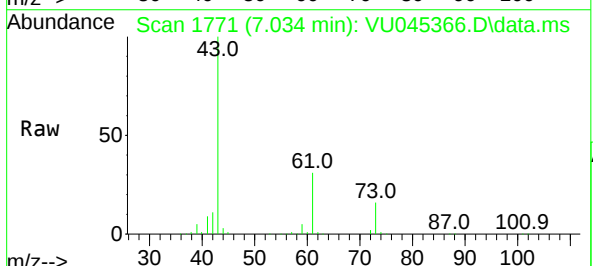
Instrument :
MSVOA_U
ClientSampled :

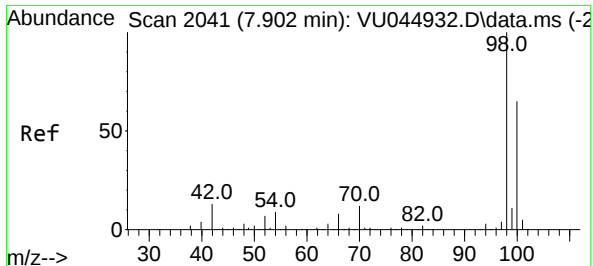
Tgt Ion: 41 Resp: 10391
Ion Ratio Lower Upper
41 100
69 0.0 65.6 98.4#
39 0.0 46.2 69.4#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.034 min Scan# 1771
Delta R.T. 0.061 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 88 Resp: 181
Ion Ratio Lower Upper
88 100
43 991790.1 25.8 38.6#
58 3981.2 61.3 91.9#

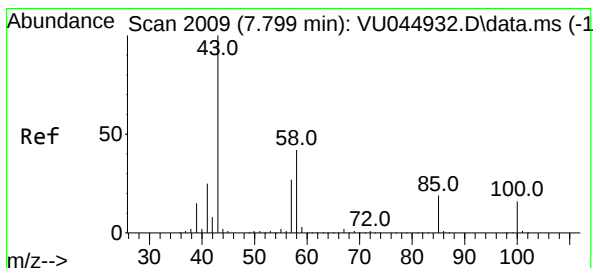
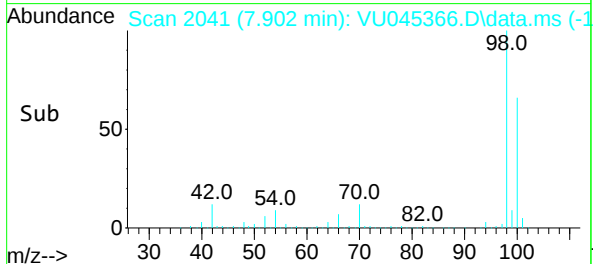
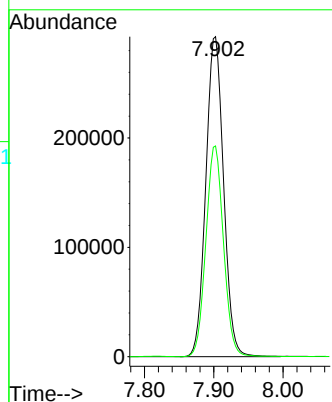
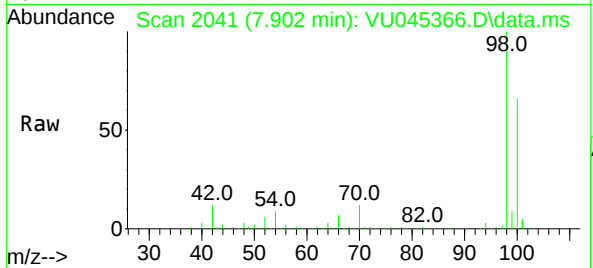




#50
Toluene-d8
Concen: 49.720 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

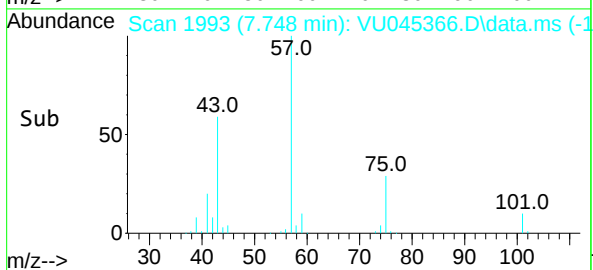
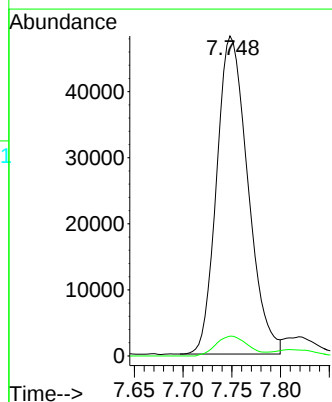
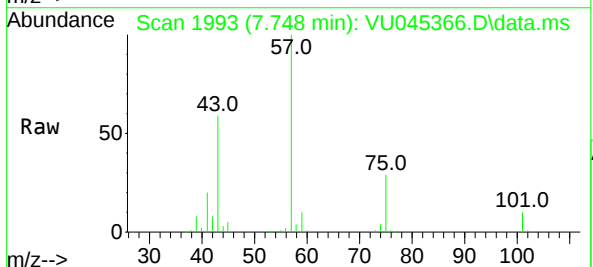
Instrument :
MSVOA_U
ClientSampled :

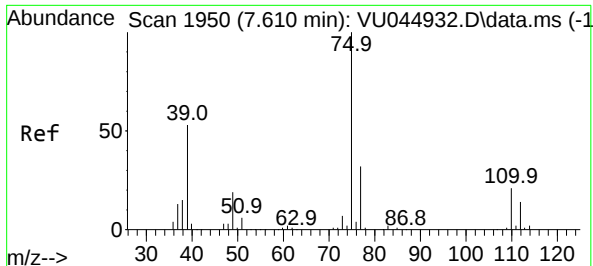
Tgt Ion: 98 Resp: 519826
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 16.887 ug/l
RT: 7.748 min Scan# 1993
Delta R.T. -0.051 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 43 Resp: 107343
Ion Ratio Lower Upper
43 100
58 6.4 32.4 48.6#

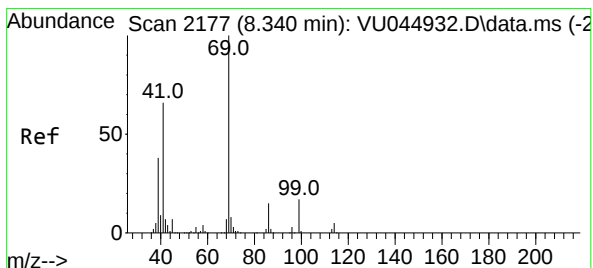
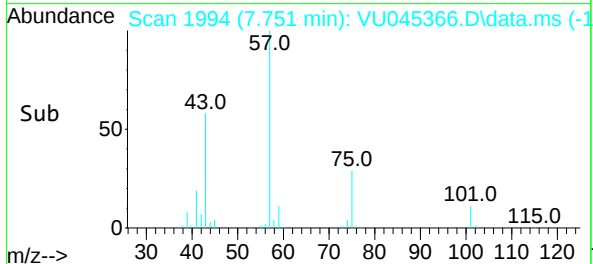
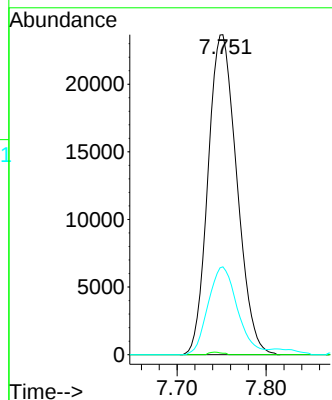
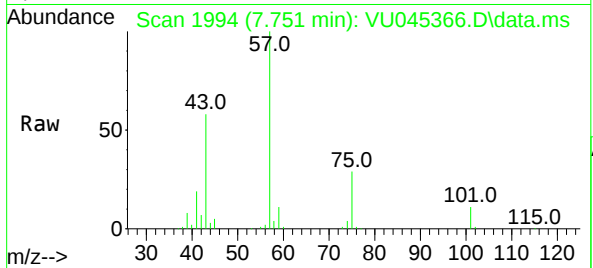




#54
 cis-1,3-Dichloropropene
 Concen: 9.832 ug/l
 RT: 7.751 min Scan# 1994
 Delta R.T. 0.141 min
 Lab File: VU045366.D
 Acq: 22 Oct 2021 15:48

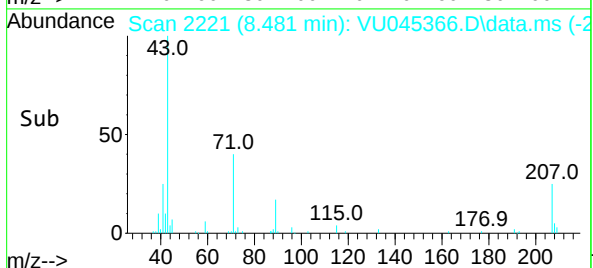
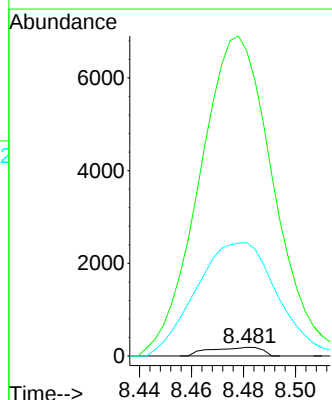
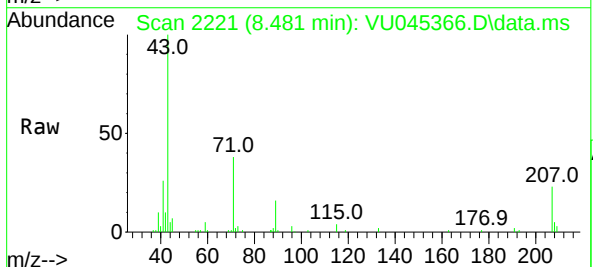
Instrument :
 MSVOA_U
 ClientSampled :

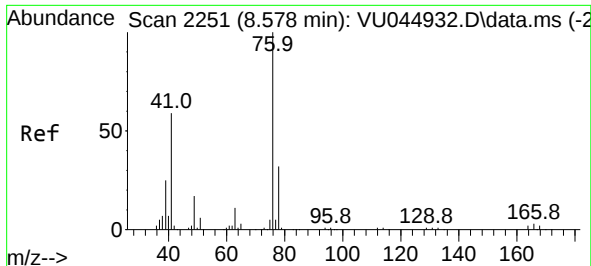
Tgt Ion: 75 Resp: 53059
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.6#
 39 27.5 41.4 62.2#



#56
 Ethyl methacrylate
 Concen: 1.858 ug/l
 RT: 8.481 min Scan# 2221
 Delta R.T. 0.141 min
 Lab File: VU045366.D
 Acq: 22 Oct 2021 15:48

Tgt Ion: 69 Resp: 258
 Ion Ratio Lower Upper
 69 100
 41 5315.9 53.5 80.3#
 39 2060.9 31.1 46.7#



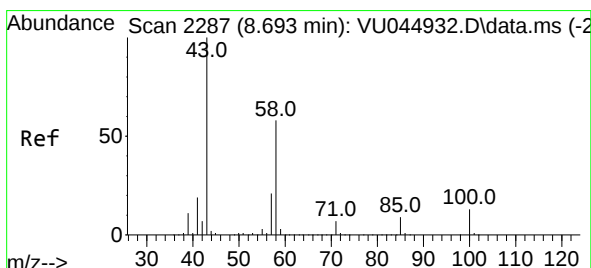
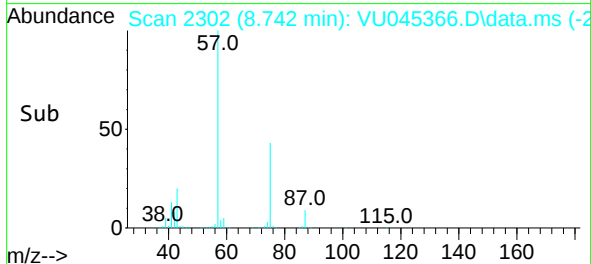
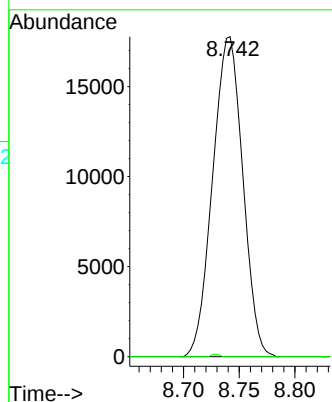
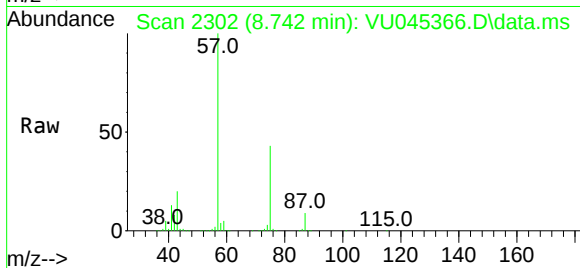


#57

1,3-Dichloropropane
Concen: 5.495 ug/l
RT: 8.742 min Scan# 2302
Delta R.T. 0.164 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Instrument :
MSVOA_U
ClientSampled :

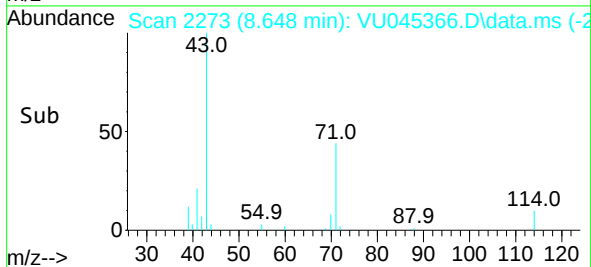
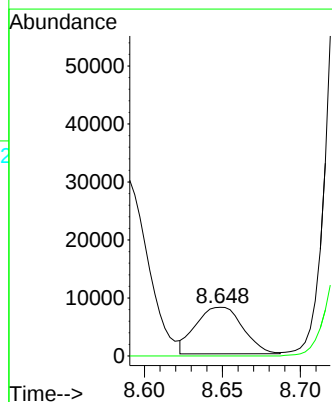
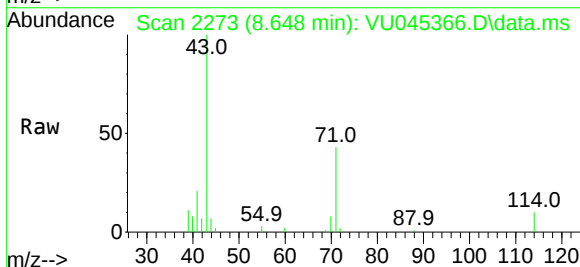
Tgt Ion: 76 Resp: 33414
Ion Ratio Lower Upper
76 100
78 0.2 25.7 38.5#

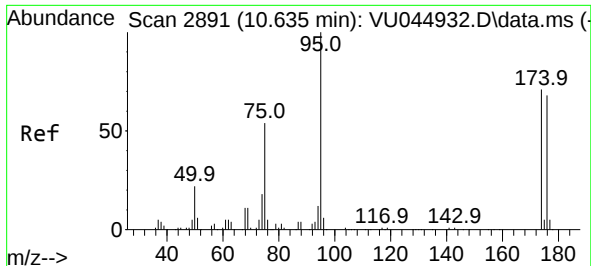


#59

2-Hexanone
Concen: 3.240 ug/l
RT: 8.648 min Scan# 2273
Delta R.T. -0.045 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 43 Resp: 16770
Ion Ratio Lower Upper
43 100
58 0.0 28.0 84.0#

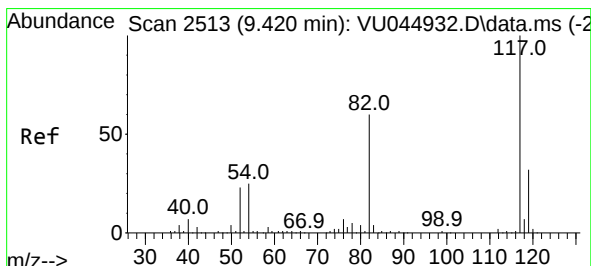
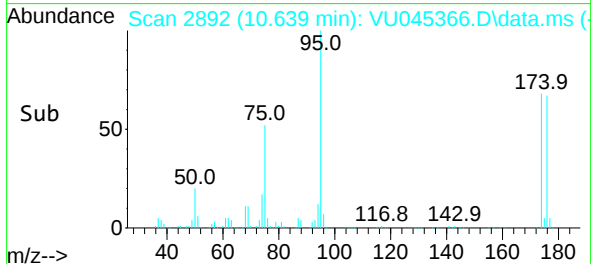
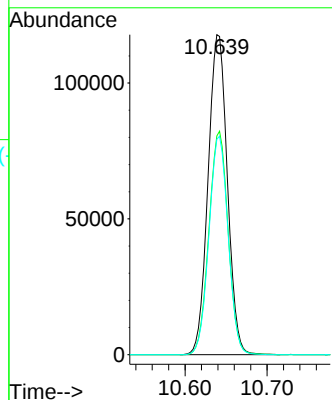
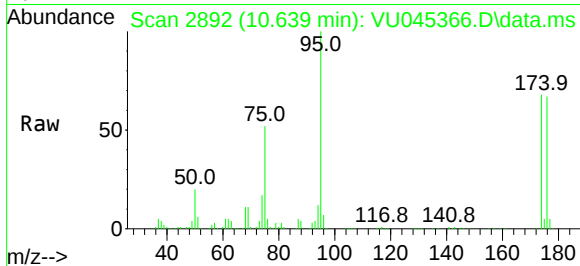




#62
4-Bromofluorobenzene
Concen: 44.654 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.004 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

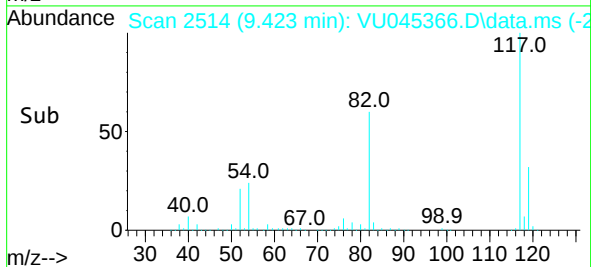
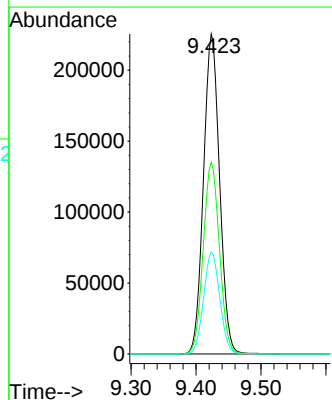
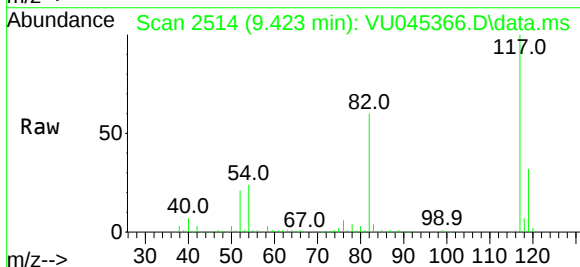
Instrument :
MSVOA_U
ClientSampleId :

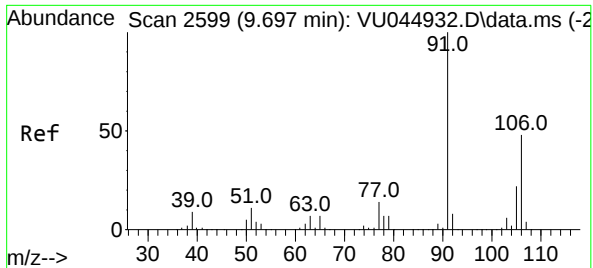
Tgt Ion: 95 Resp: 192745
Ion Ratio Lower Upper
95 100
174 69.6 0.0 146.6
176 67.7 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.423 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion: 117 Resp: 389800
Ion Ratio Lower Upper
117 100
82 60.0 47.8 71.8
119 31.9 25.8 38.6

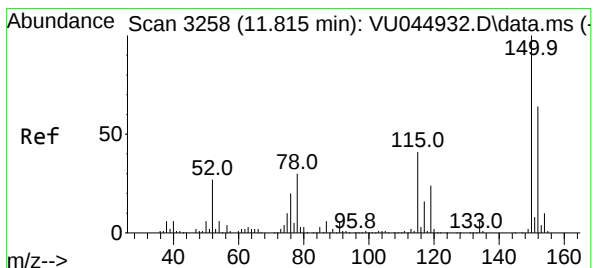
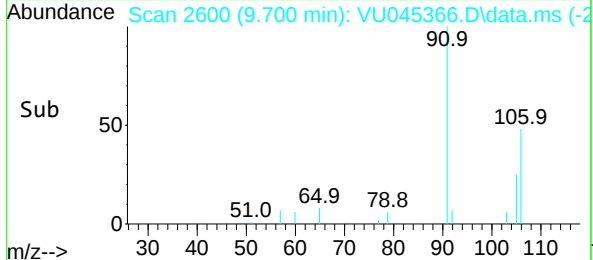
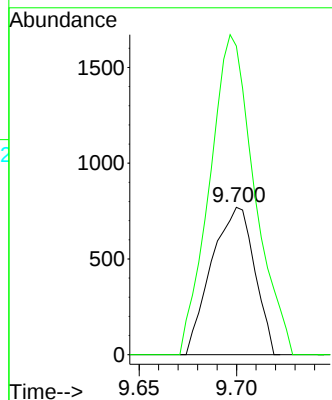
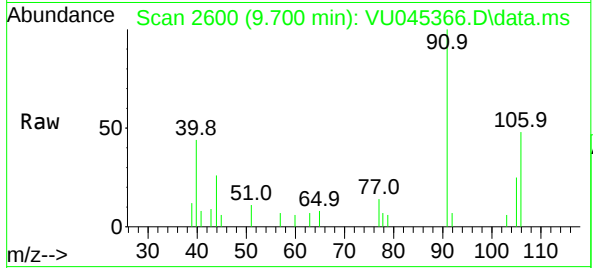




#68
m/p-Xylenes
Concen: 0.202 ug/l
RT: 9.700 min Scan# 2600
Delta R.T. 0.003 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

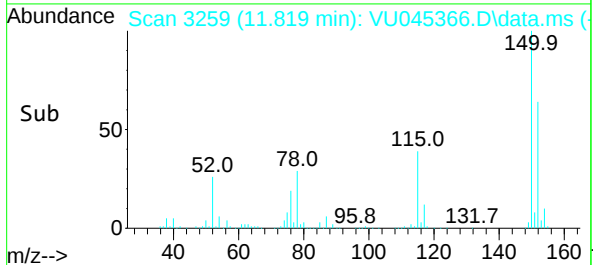
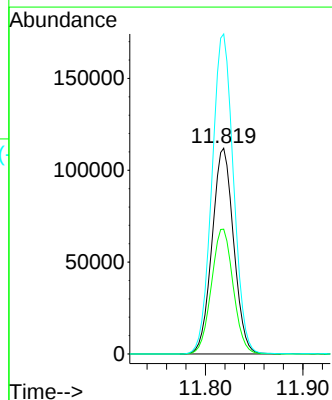
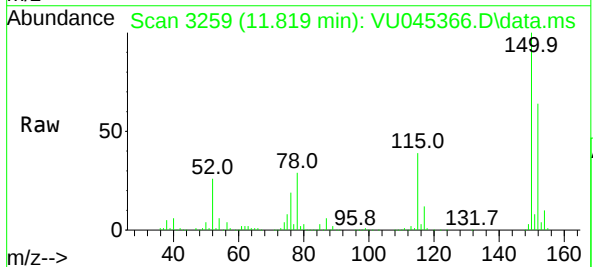
Instrument :
MSVOA_U
ClientSampled :

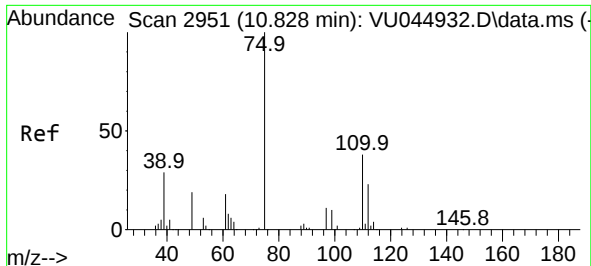
Tgt Ion:106 Resp: 1183
Ion Ratio Lower Upper
106 100
91 225.6 164.2 246.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.819 min Scan# 3259
Delta R.T. 0.004 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

Tgt Ion:152 Resp: 172326
Ion Ratio Lower Upper
152 100
115 61.3 43.5 130.7
150 155.5 0.0 350.0

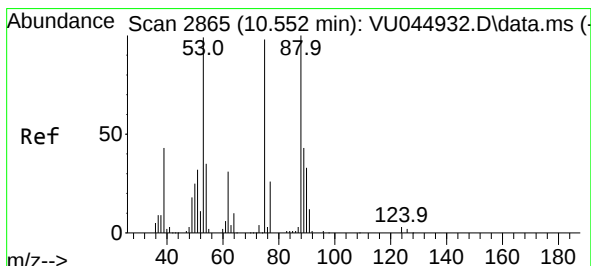
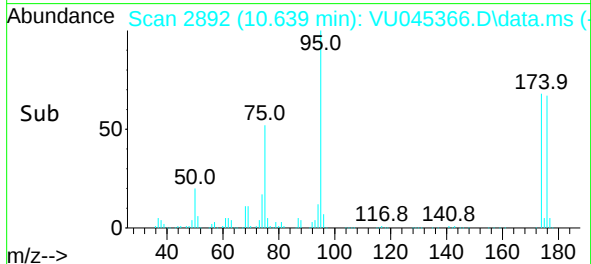
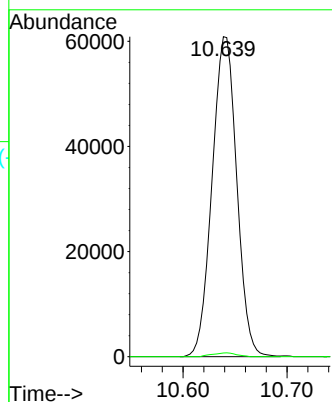
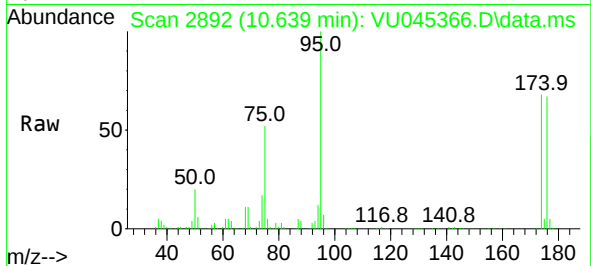




#76
1,2,3-Trichloropropane
Concen: 19.954 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.189 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

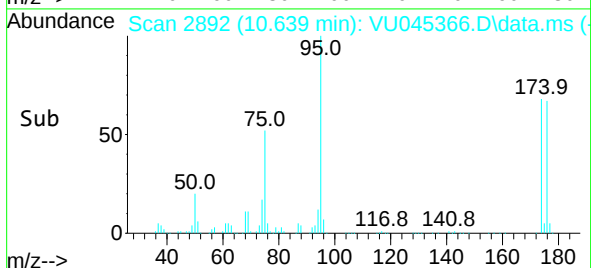
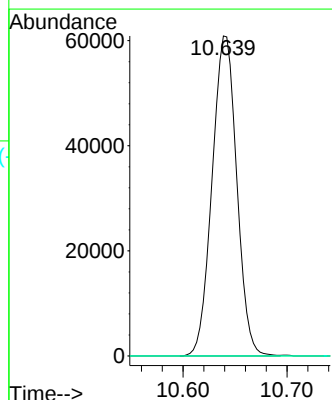
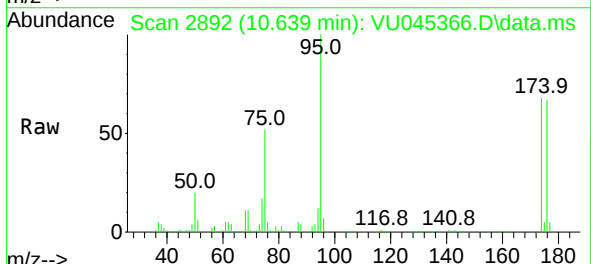
Instrument :
MSVOA_U
ClientSampled :

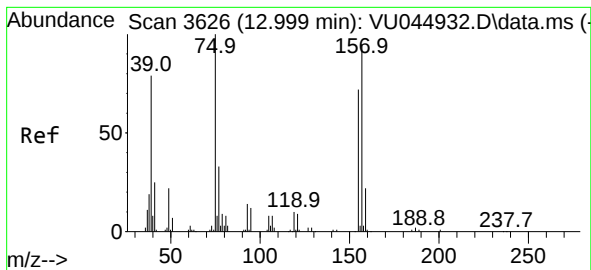
Tgt Ion: 75 Resp: 100296
Ion Ratio Lower Upper
75 100
77 1.2 17.9 53.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.375 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.087 min
Lab File: VU045366.D
Acq: 22 Oct 2021 15:48

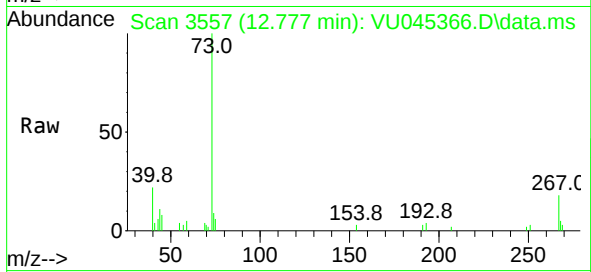
Tgt Ion: 75 Resp: 100296
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.306 ug/l
 RT: 12.777 min Scan# 3557
 Delta R.T. -0.222 min
 Lab File: VU045366.D
 Acq: 22 Oct 2021 15:48

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 401
 Ion Ratio Lower Upper
 75 100
 155 0.0 36.9 110.6#
 157 0.0 47.8 143.3#

