

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102221\
 Data File : VU045363.D
 Acq On : 22 Oct 2021 14:37
 Operator : SY/MD
 Sample : M4306-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 01:12:07 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)

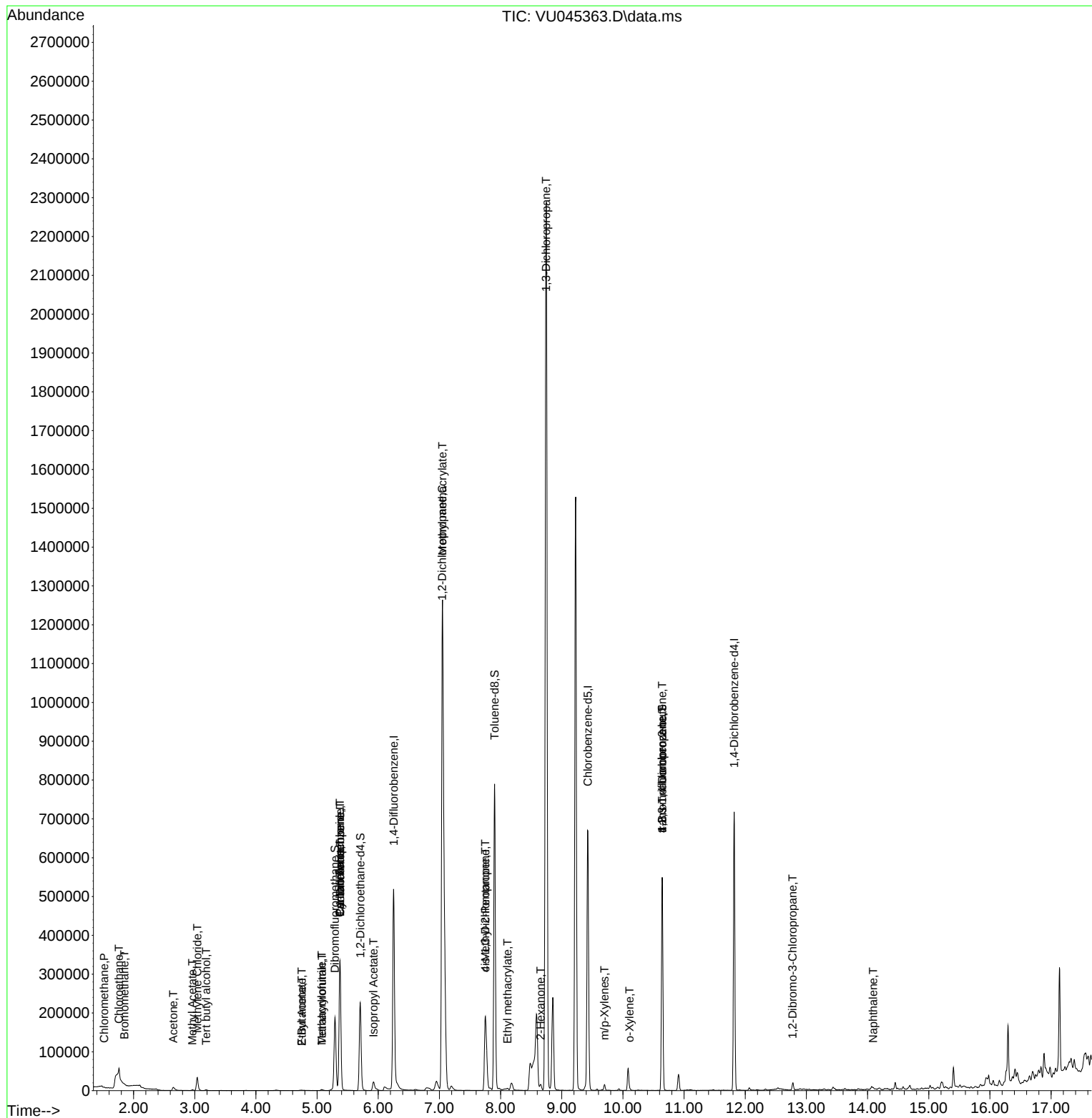
Internal Standards						
1) Pentafluorobenzene	5.375	168	228349	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	422720	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.426	117	400592	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.819	152	177037	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	176921	46.544	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	93.080%		
35) Dibromofluoromethane	5.292	113	129030	48.386	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.780%		
50) Toluene-d8	7.902	98	531073	50.404	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.800%		
62) 4-Bromofluorobenzene	10.642	95	195082	44.846	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.700%		
Target Compounds						Qvalue
3) Chloromethane	1.520	50	983	0.268	ug/l	99
5) Bromomethane	1.851	94	455	0.317	ug/l	89
6) Chloroethane	1.761	64	197643	70.348	ug/l #	51
11) Tert butyl alcohol	3.186	59	1284	1.177	ug/l #	72
16) Acetone	2.649	43	13805	6.118	ug/l	93
18) Methyl Acetate	2.960	43	2887	0.438	ug/l #	84
20) Methylene Chloride	3.041	84	16664	4.903	ug/l	96
25) 2-Butanone	4.751	43	2720	0.848	ug/l	95
29) Tetrahydrofuran	5.079	42	1829	0.958	ug/l	98
31) Cyclohexane	5.375	56	5453	0.944	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	20761	4.696	ug/l #	50
37) Ethyl Acetate	4.751	43	2720	0.465	ug/l #	69
38) Carbon Tetrachloride	5.372	117	23383	6.113	ug/l #	16
41) Methacrylonitrile	5.076	41	1201	0.399	ug/l #	43
43) Isopropyl Acetate	5.922	43	32957	3.745	ug/l	99
45) 1,2-Dichloropropane	7.044	63	2158	0.618	ug/l #	45
48) Methyl methacrylate	7.050	41	163590	38.194	ug/l #	42
49) 1,4-Dioxane	7.047	88	171	Below Cal	#	1
51) 4-Methyl-2-Pentanone	7.751	43	106286	16.591	ug/l #	45
54) cis-1,3-Dichloropropene	7.751	75	53282	9.797	ug/l #	56
56) Ethyl methacrylate	8.115	69	5548	2.623	ug/l #	61
57) 1,3-Dichloropropane	8.745	76	32099	5.238	ug/l #	43
59) 2-Hexanone	8.655	43	15990	3.065	ug/l #	23
68) m/p-Xylenes	9.700	106	4520	0.753	ug/l	98
69) o-Xylene	10.108	106	1335	0.224	ug/l	83
76) 1,2,3-Trichloropropane	10.642	75	100532	19.468	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.642	75	100532	54.028	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	12.774	75	745	0.554	ug/l #	11
95) Naphthalene	14.092	128	3313	0.254	ug/l #	95

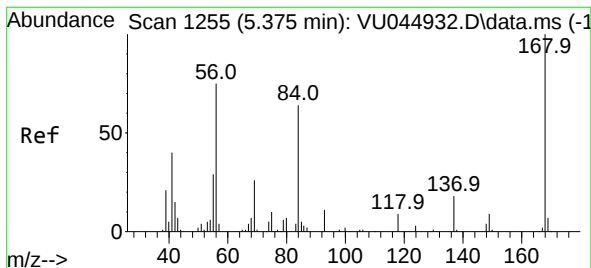
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 28 12:32:13 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VU045363.D

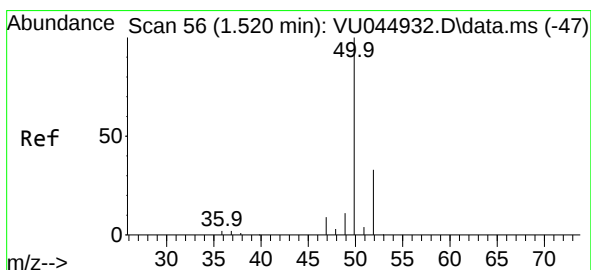
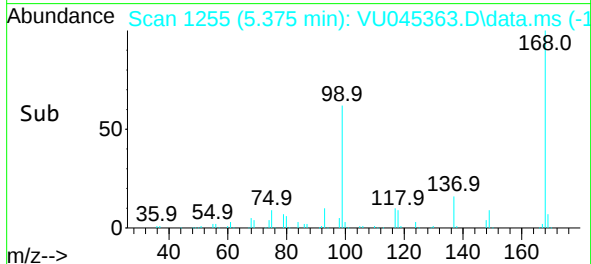
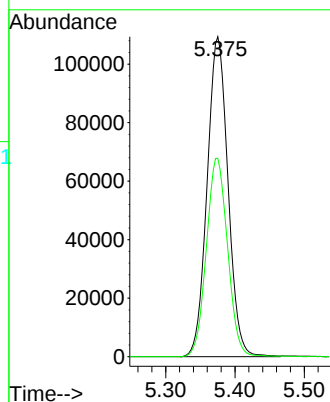
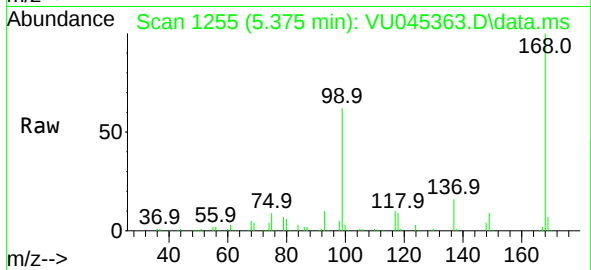
Acq: 22 Oct 2021 14:37

Tgt Ion:168 Resp: 228349

Ion Ratio Lower Upper

168 100

99 62.0 51.4 77.0



#3

Chloromethane

Concen: 0.268 ug/l

RT: 1.520 min Scan# 56

Delta R.T. -0.000 min

Lab File: VU045363.D

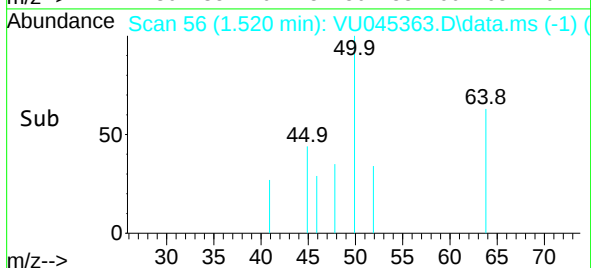
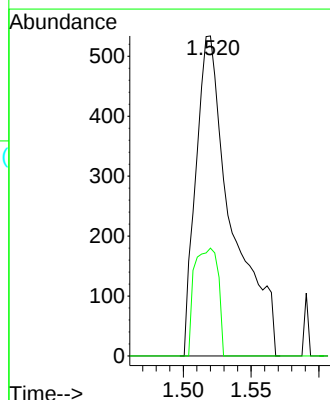
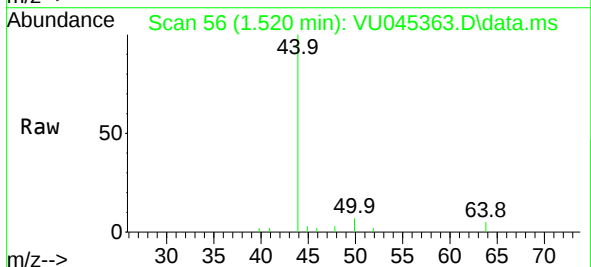
Acq: 22 Oct 2021 14:37

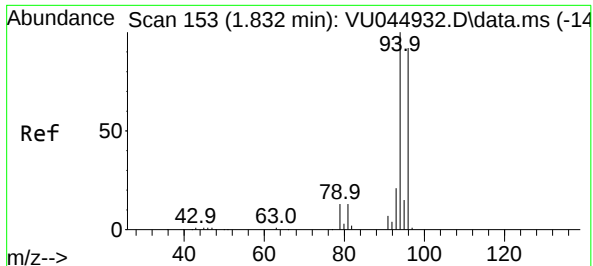
Tgt Ion: 50 Resp: 983

Ion Ratio Lower Upper

50 100

52 33.7 26.3 39.5

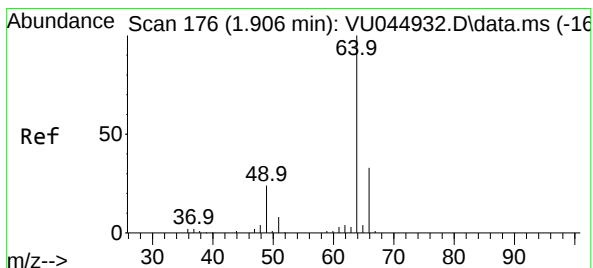
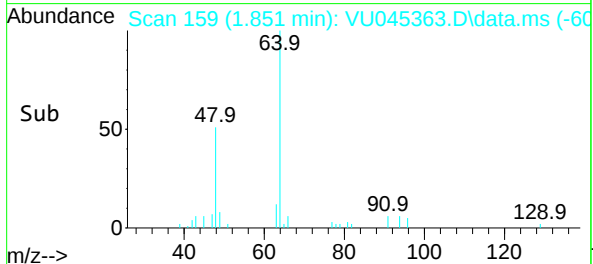
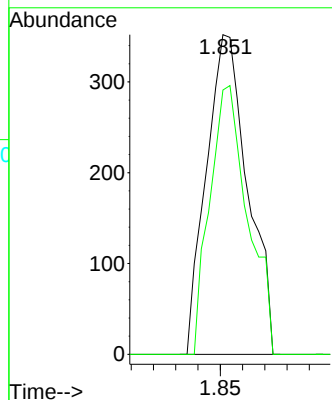
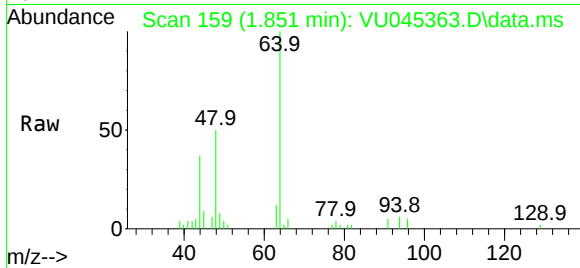




#5
Bromomethane
Concen: 0.317 ug/l
RT: 1.851 min Scan# 159
Delta R.T. 0.019 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

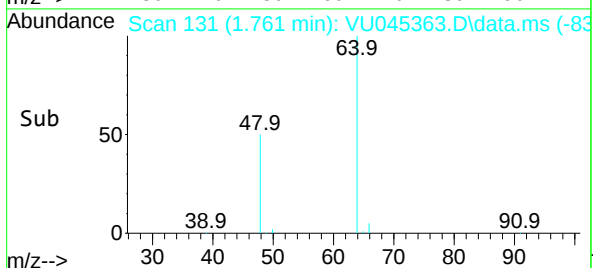
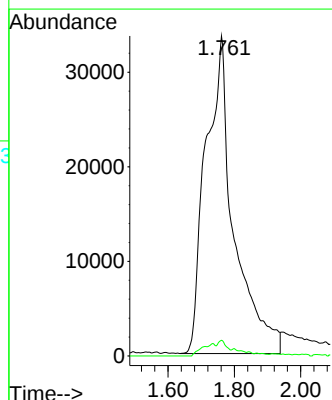
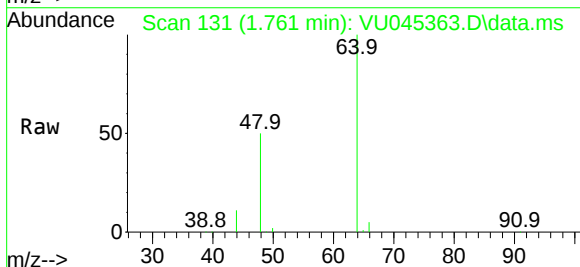
Instrument :
MSVOA_U
ClientSampleId :

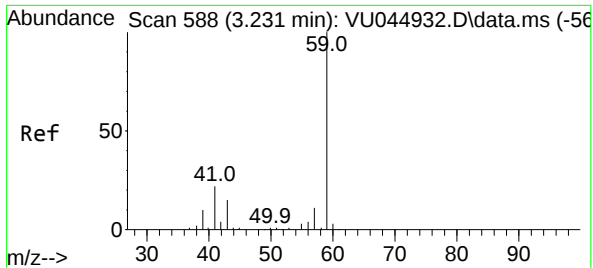
Tgt Ion: 94 Resp: 455
Ion Ratio Lower Upper
94 100
96 82.7 74.5 111.7



#6
Chloroethane
Concen: 70.348 ug/l
RT: 1.761 min Scan# 131
Delta R.T. -0.145 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 64 Resp: 197643
Ion Ratio Lower Upper
64 100
66 4.9 25.8 38.8#



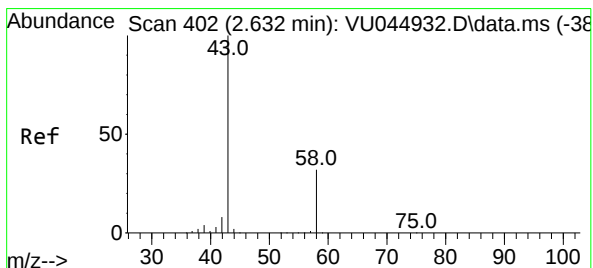
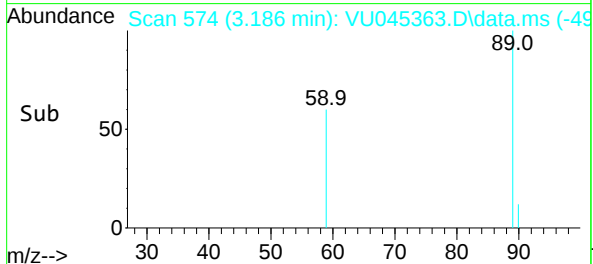
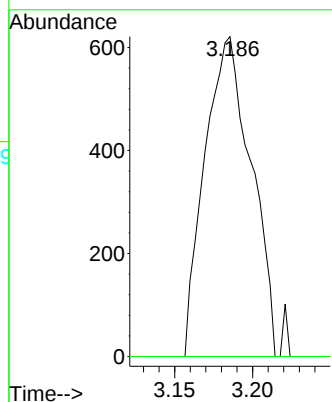
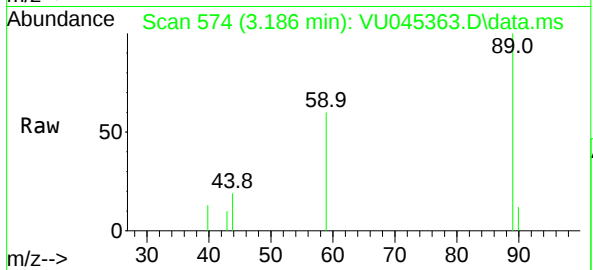


#11

Tert butyl alcohol
Concen: 1.177 ug/l
RT: 3.186 min Scan# 574
Delta R.T. -0.045 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Instrument :
MSVOA_U
ClientSampleId :

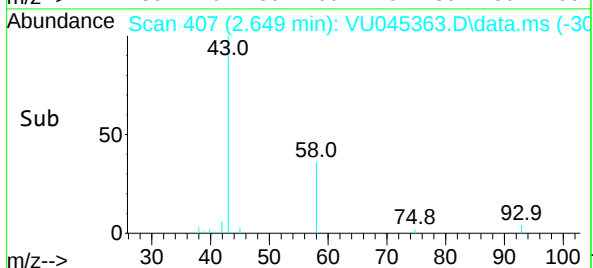
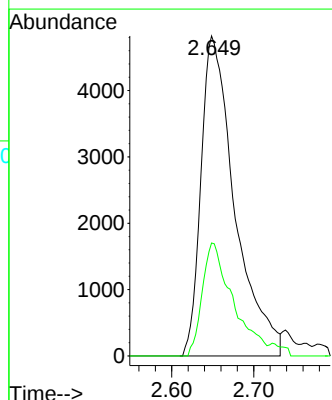
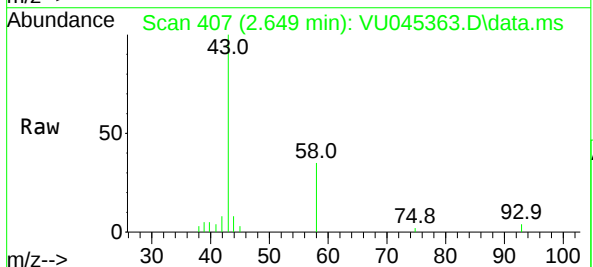
Tgt Ion: 59 Resp: 1284
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

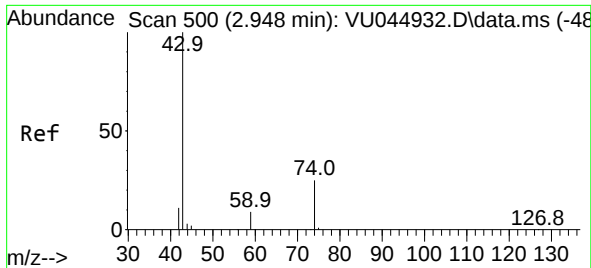


#16

Acetone
Concen: 6.118 ug/l
RT: 2.649 min Scan# 407
Delta R.T. 0.017 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 43 Resp: 13805
Ion Ratio Lower Upper
43 100
58 35.3 25.2 37.8

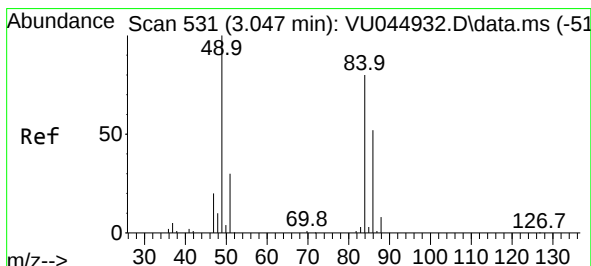
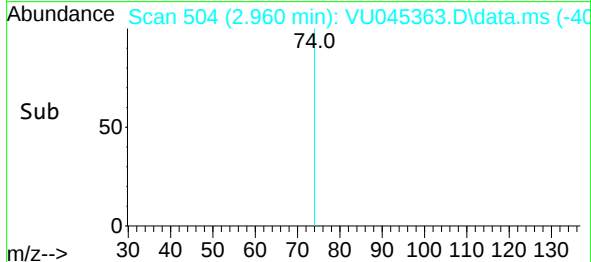
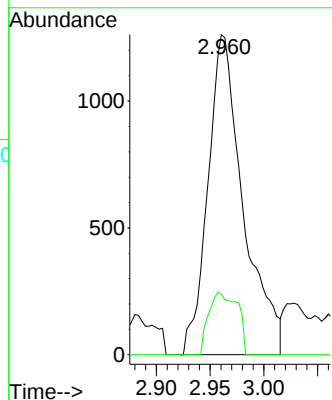
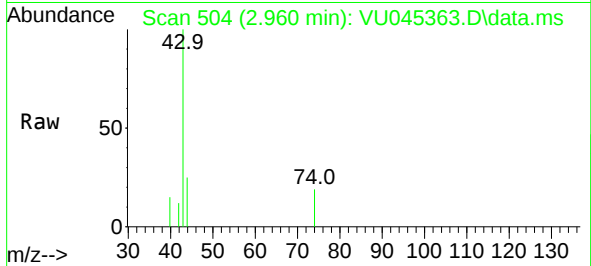




#18
Methyl Acetate
Concen: 0.438 ug/l
RT: 2.960 min Scan# 504
Delta R.T. 0.012 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

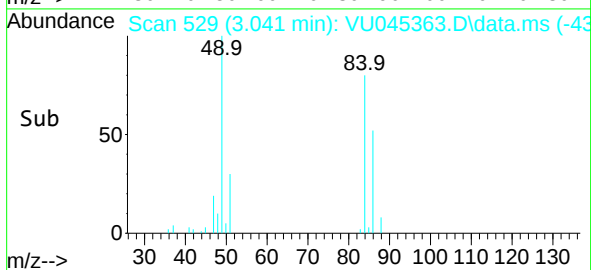
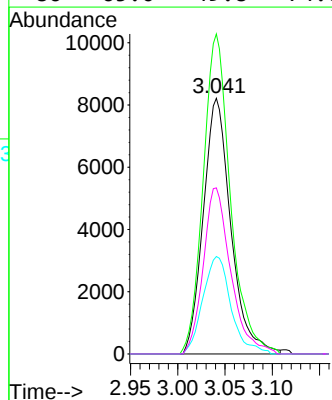
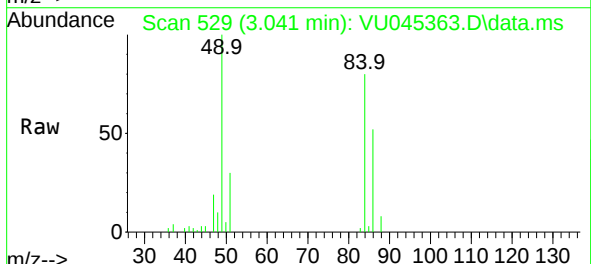
Instrument :
MSVOA_U
ClientSampled :

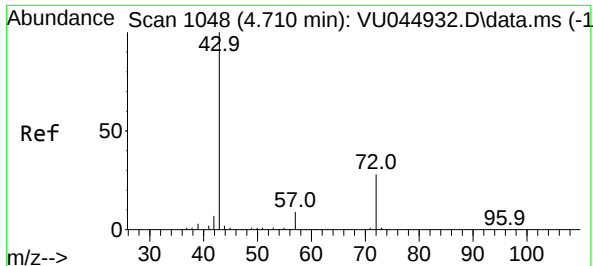
Tgt Ion: 43 Resp: 2887
Ion Ratio Lower Upper
43 100
74 15.8 19.0 28.6#



#20
Methylene Chloride
Concen: 4.903 ug/l
RT: 3.041 min Scan# 529
Delta R.T. -0.006 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 84 Resp: 16664
Ion Ratio Lower Upper
84 100
49 125.2 104.9 157.3
51 38.1 31.8 47.8
86 65.0 49.8 74.6

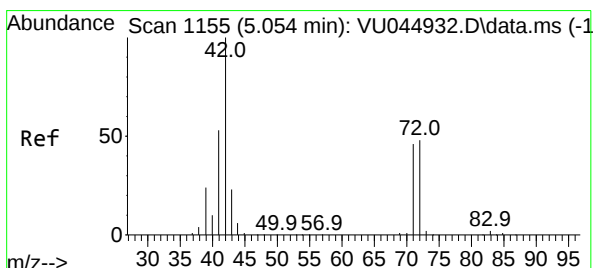
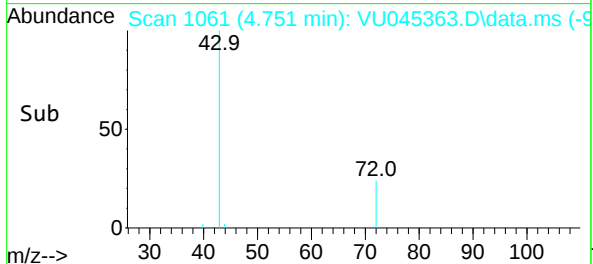
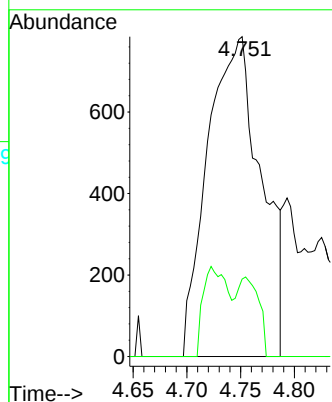
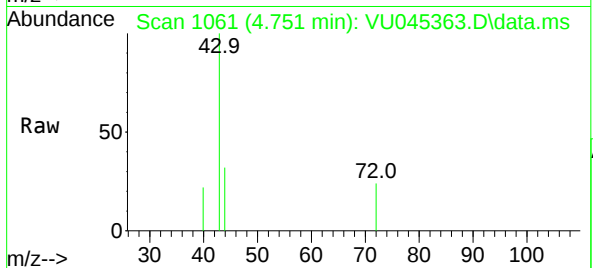




#25
2-Butanone
Concen: 0.848 ug/l
RT: 4.751 min Scan# 1061
Delta R.T. 0.041 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

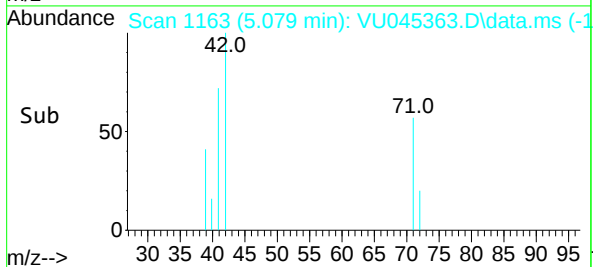
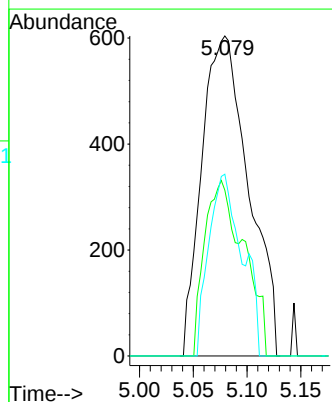
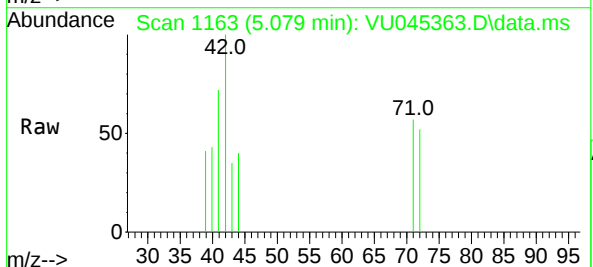
Instrument :
MSVOA_U
ClientSampled :

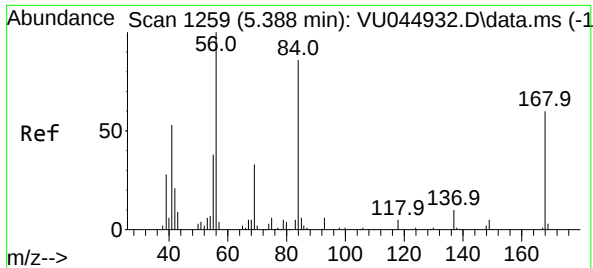
Tgt Ion: 43 Resp: 2720
Ion Ratio Lower Upper
43 100
72 24.2 21.3 31.9



#29
Tetrahydrofuran
Concen: 0.958 ug/l
RT: 5.079 min Scan# 1163
Delta R.T. 0.025 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 42 Resp: 1829
Ion Ratio Lower Upper
42 100
72 45.9 36.2 54.4
71 40.4 34.1 51.1

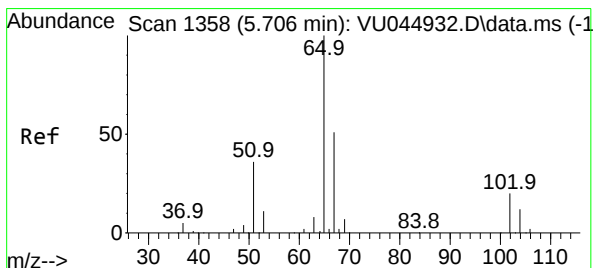
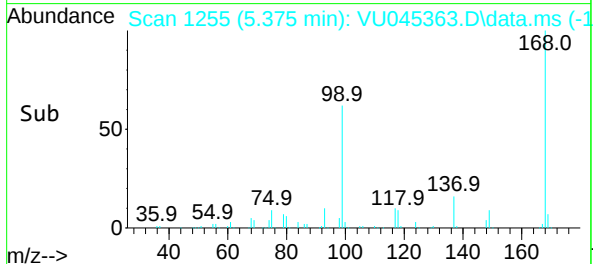
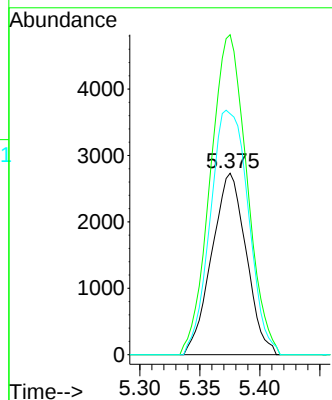
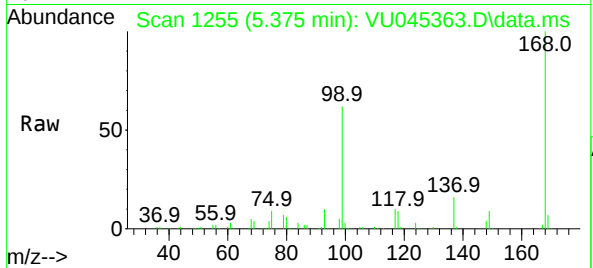




#31
Cyclohexane
Concen: 0.944 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.013 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

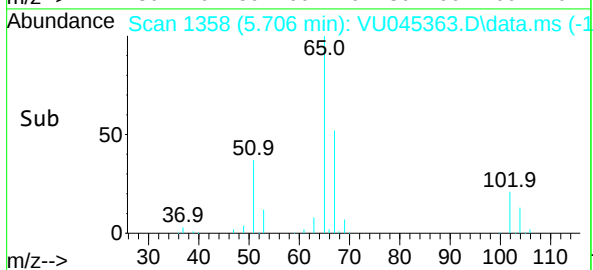
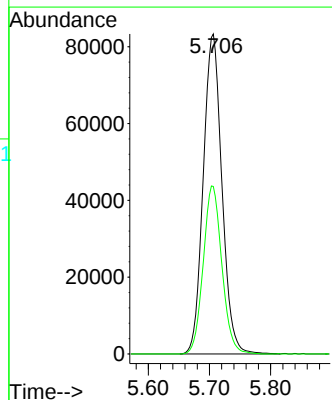
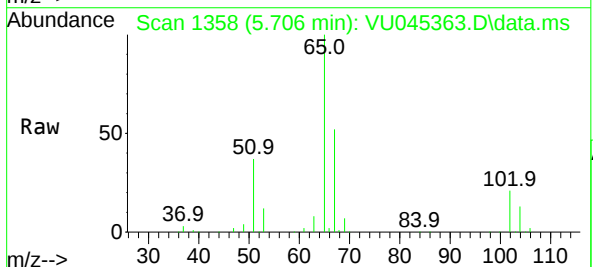
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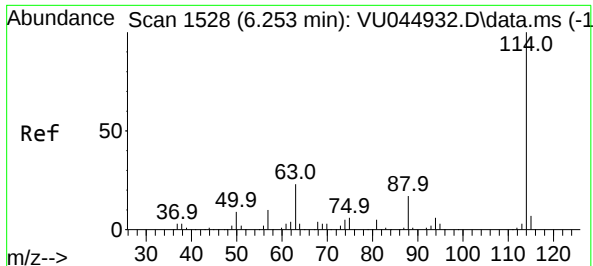
Tgt Ion: 56 Resp: 5453
Ion Ratio Lower Upper
56 100
69 176.4 25.2 37.8#
84 132.8 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 46.544 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 65 Resp: 176921
Ion Ratio Lower Upper
65 100
67 52.4 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: VU045363.D

Acq: 22 Oct 2021 14:37

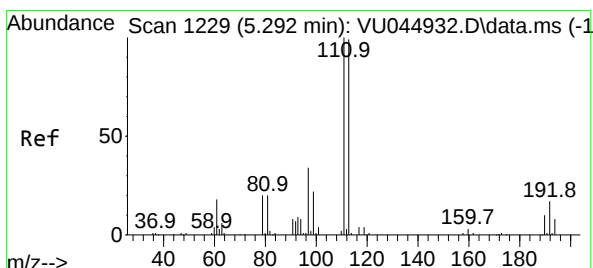
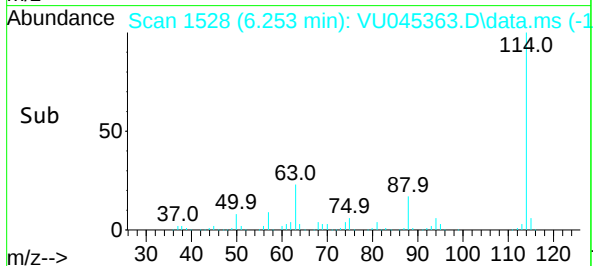
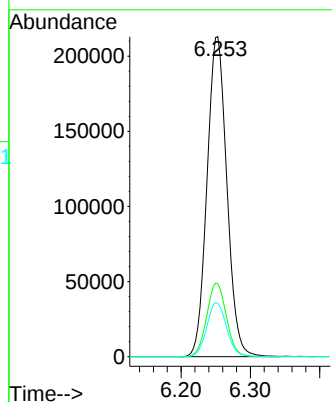
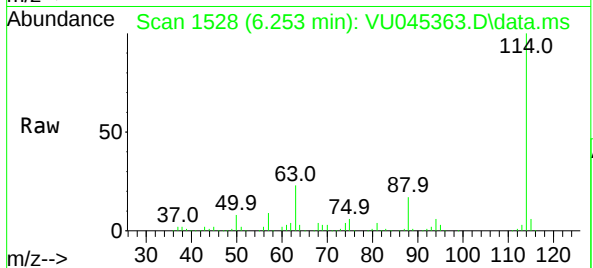
Tgt Ion:114 Resp: 422720

Ion Ratio Lower Upper

114 100

63 22.8 0.0 47.8

88 16.6 0.0 32.8



#35

Dibromofluoromethane

Concen: 48.386 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

Lab File: VU045363.D

Acq: 22 Oct 2021 14:37

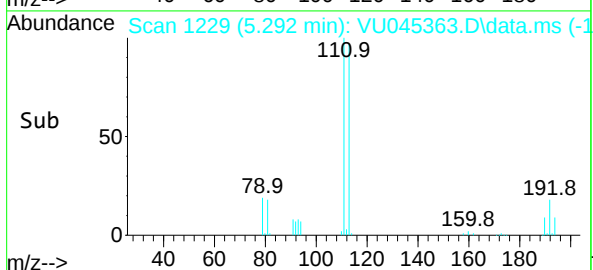
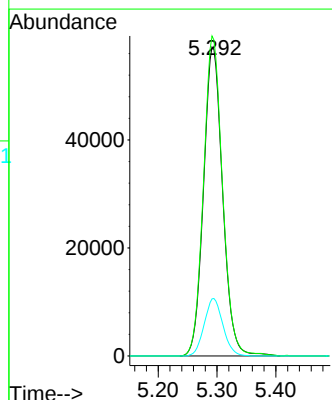
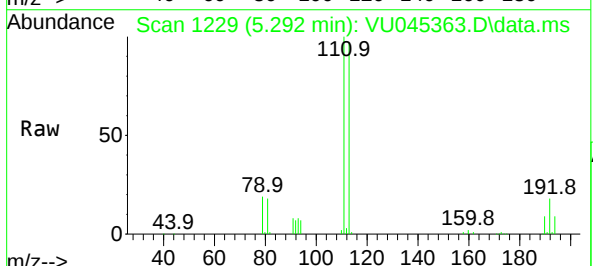
Tgt Ion:113 Resp: 129030

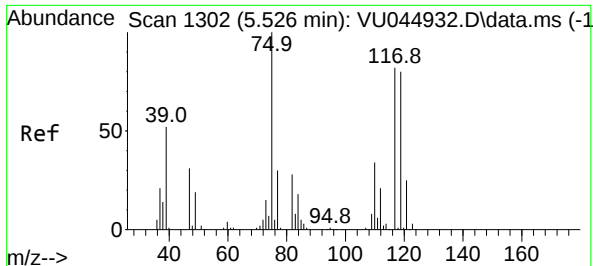
Ion Ratio Lower Upper

113 100

111 103.3 84.1 126.1

192 18.2 14.8 22.2

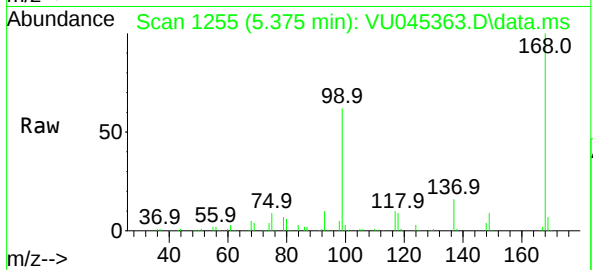




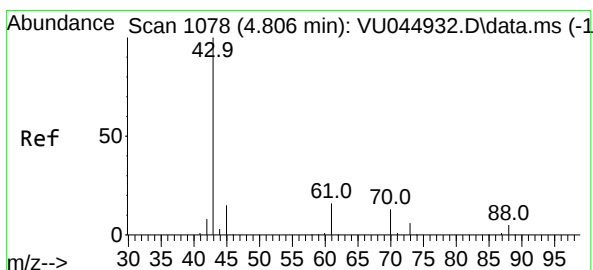
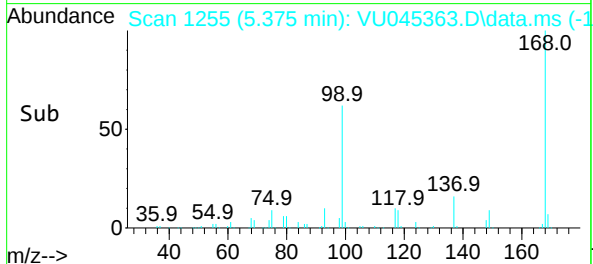
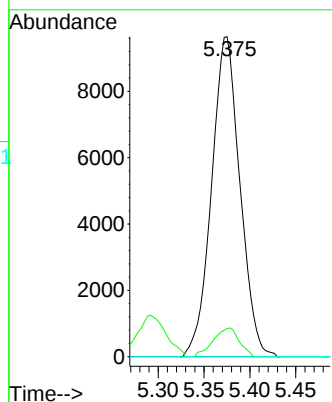
#36

1,1-Dichloropropene
Concen: 4.696 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.151 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Instrument :
MSVOA_U
ClientSampled :



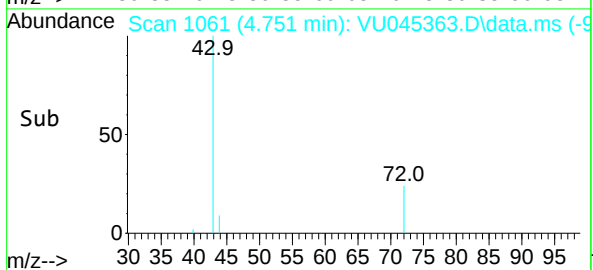
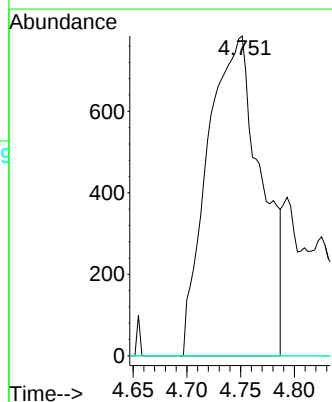
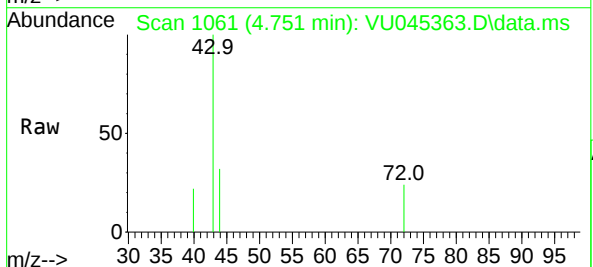
Tgt Ion:	75	Resp:	20761
Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.3	48.9#
77	0.0	25.0	37.4#

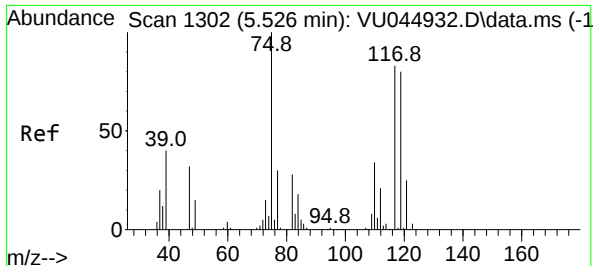


#37

Ethyl Acetate
Concen: 0.465 ug/l
RT: 4.751 min Scan# 1061
Delta R.T. -0.055 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

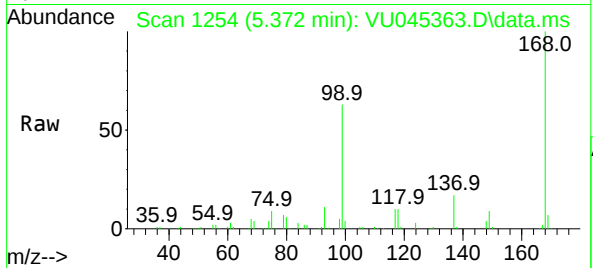
Tgt Ion:	43	Resp:	2720
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	8.2	12.4#



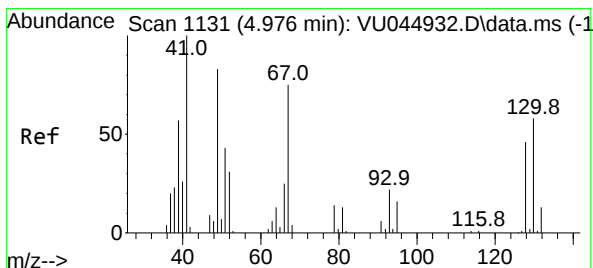
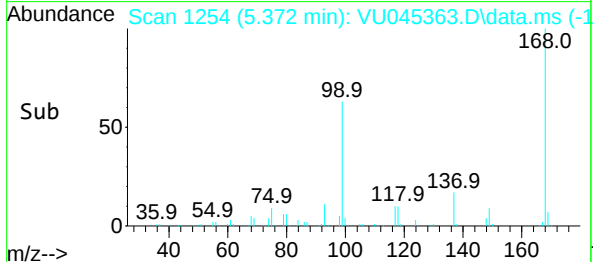
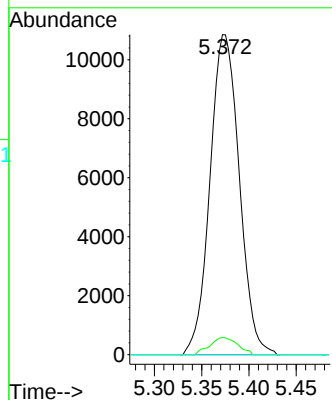


#38
Carbon Tetrachloride
Concen: 6.113 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Instrument :
MSVOA_U
ClientSampleId :

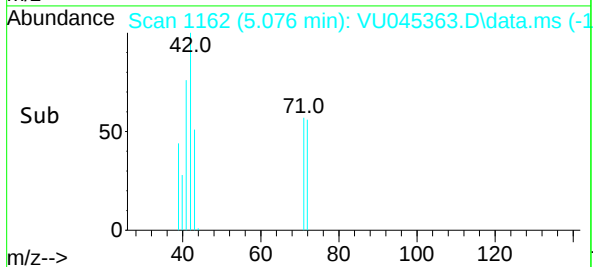
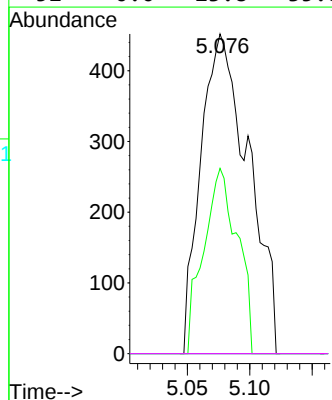
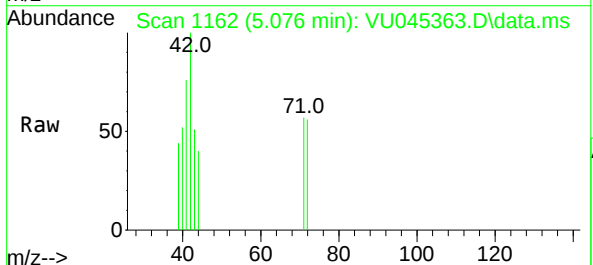


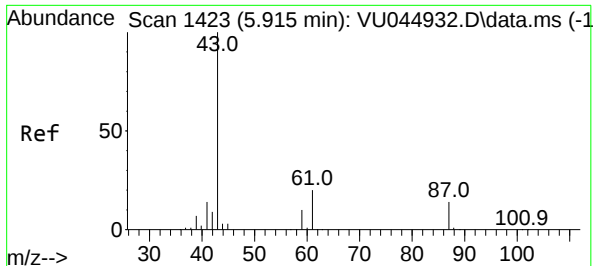
Tgt Ion:117 Resp: 23383
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.2#
121 0.0 24.5 36.7#



#41
Methacrylonitrile
Concen: 0.399 ug/l
RT: 5.076 min Scan# 1162
Delta R.T. 0.100 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 41 Resp: 1201
Ion Ratio Lower Upper
41 100
39 41.3 44.4 66.6#
67 0.0 58.1 87.1#
52 0.0 23.8 35.8#

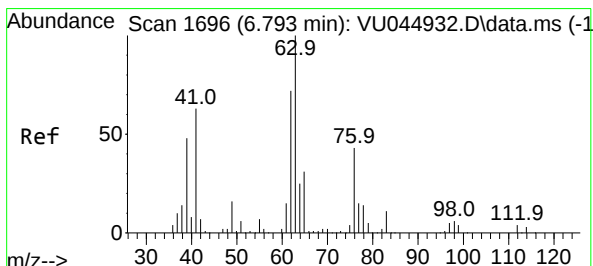
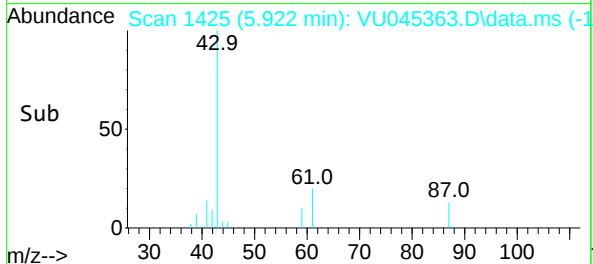
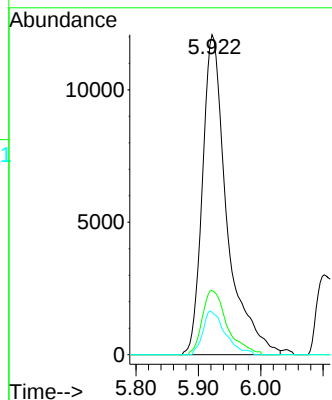
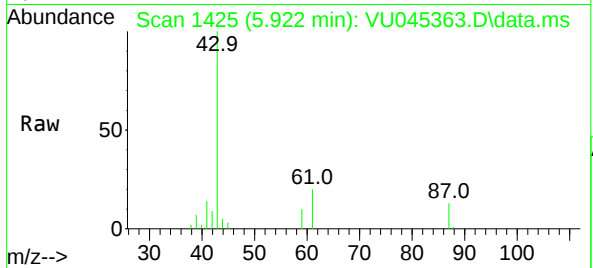




#43
Isopropyl Acetate
Concen: 3.745 ug/l
RT: 5.922 min Scan# 1425
Delta R.T. 0.007 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

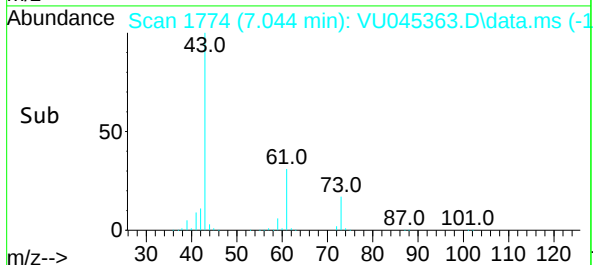
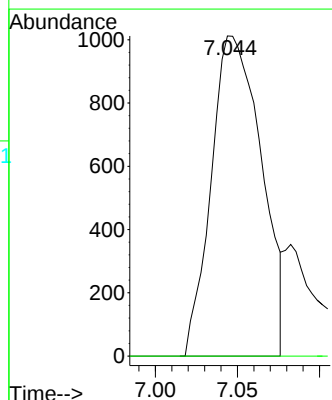
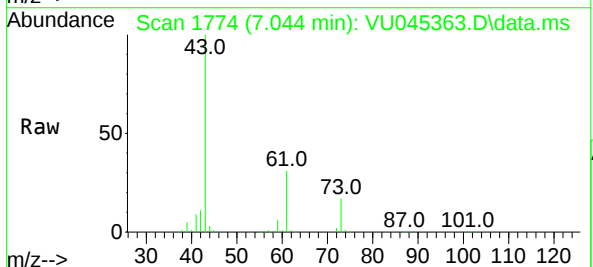
Instrument :
MSVOA_U
ClientSampled :

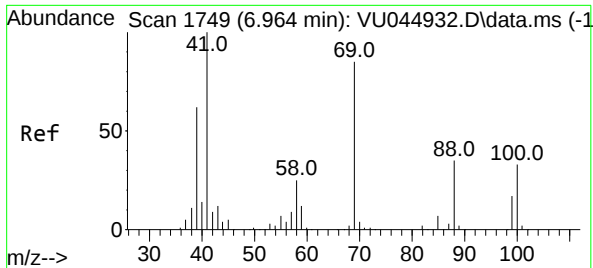
Tgt Ion: 43	Resp: 32957
Ion Ratio	Lower Upper
43 100	
61 20.4	16.1 24.1
87 12.5	10.3 15.5



#45
1,2-Dichloropropane
Concen: 0.618 ug/l
RT: 7.044 min Scan# 1774
Delta R.T. 0.251 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 63	Resp: 2158
Ion Ratio	Lower Upper
63 100	
65 0.0	23.9 35.9#

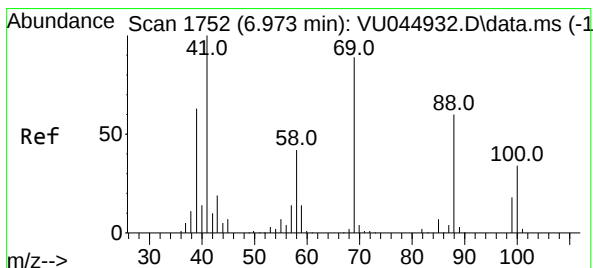
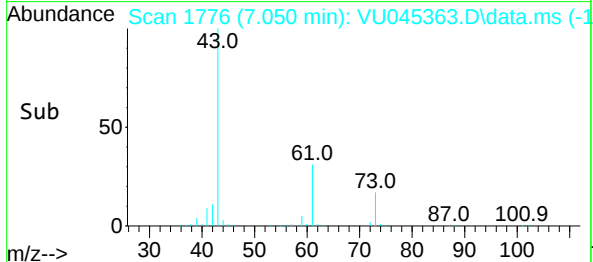
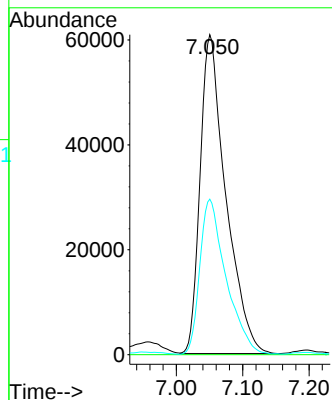
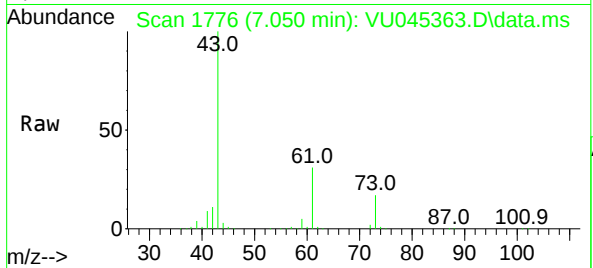




#48
Methyl methacrylate
Concen: 38.194 ug/l
RT: 7.050 min Scan# 1776
Delta R.T. 0.086 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

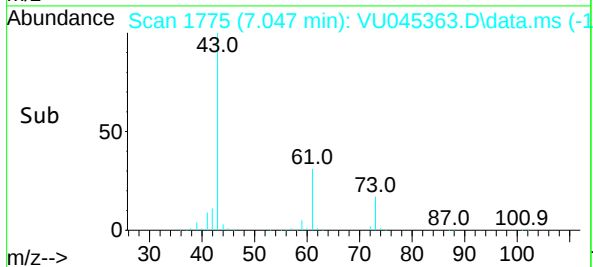
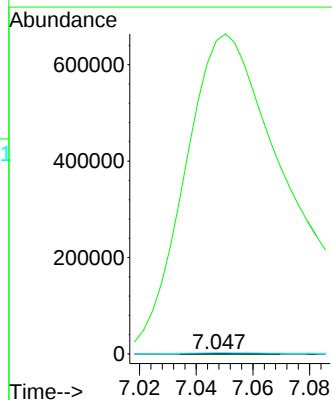
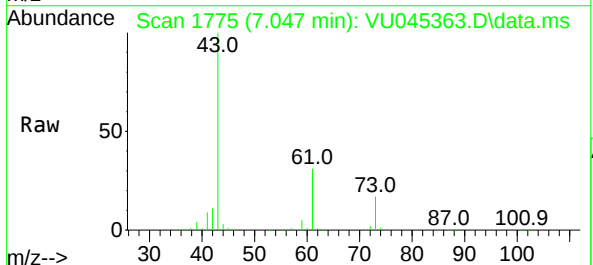
Instrument :
MSVOA_U
ClientSampleId :

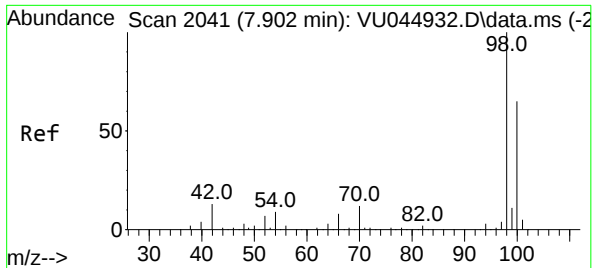
Tgt Ion: 41 Resp: 163590
Ion Ratio Lower Upper
41 100
69 0.0 65.6 98.4#
39 49.5 46.2 69.4



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.047 min Scan# 1775
Delta R.T. 0.074 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 88 Resp: 171
Ion Ratio Lower Upper
88 100
43 1045526.9 25.8 38.6#
58 4398.2 61.3 91.9#

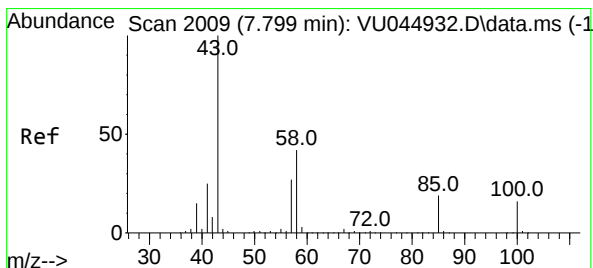
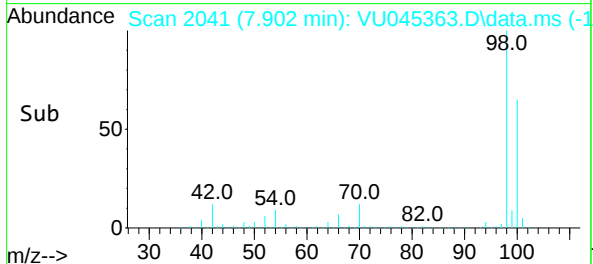
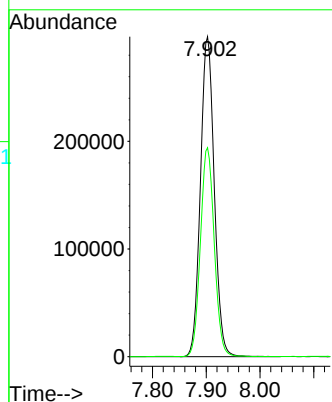
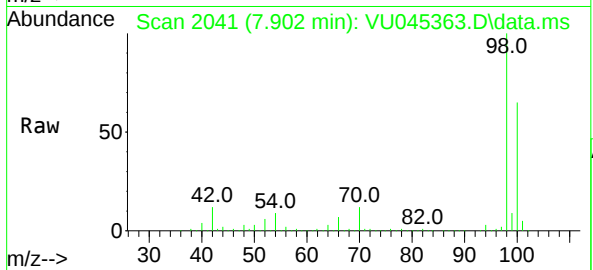




#50
Toluene-d8
Concen: 50.404 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

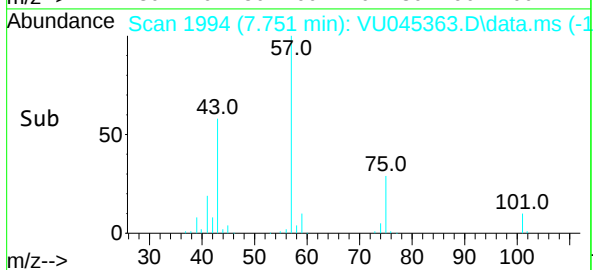
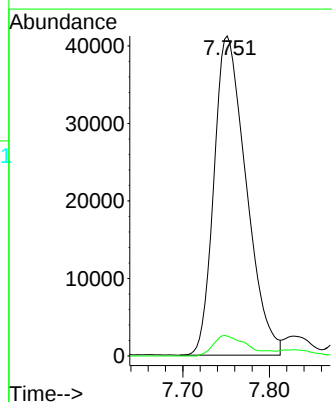
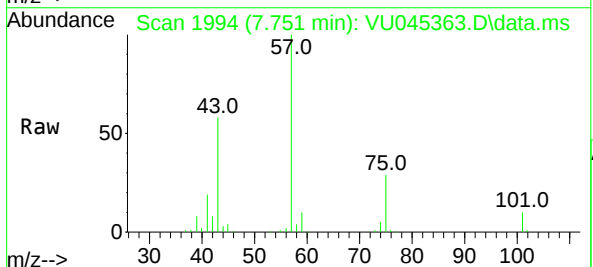
Instrument :
MSVOA_U
ClientSampled :

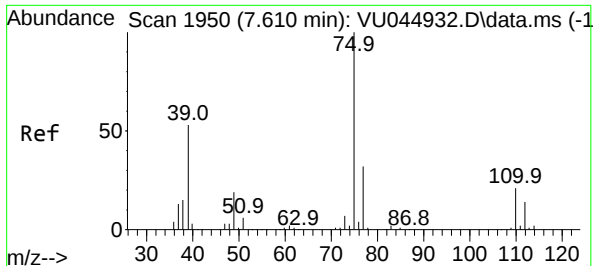
Tgt Ion: 98 Resp: 531073
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 16.591 ug/l
RT: 7.751 min Scan# 1994
Delta R.T. -0.048 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 43 Resp: 106286
Ion Ratio Lower Upper
43 100
58 6.4 32.4 48.6#

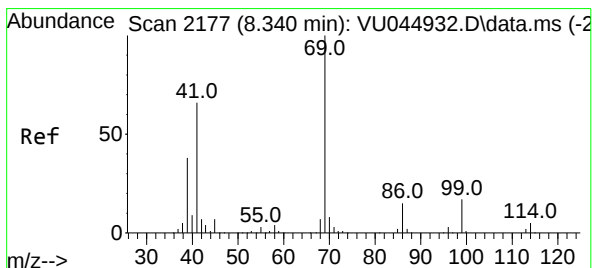
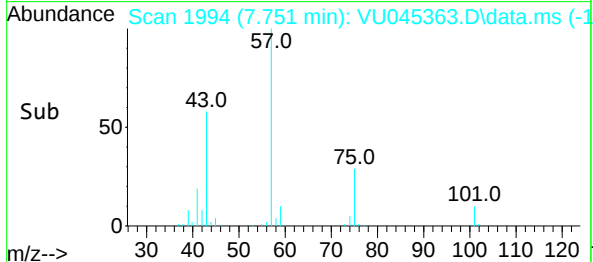
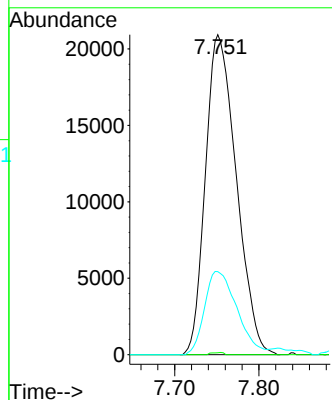
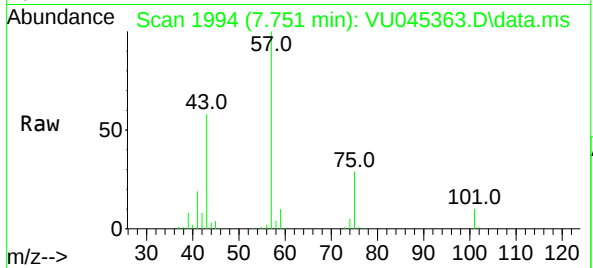




#54
cis-1,3-Dichloropropene
Concen: 9.797 ug/l
RT: 7.751 min Scan# 1994
Delta R.T. 0.141 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

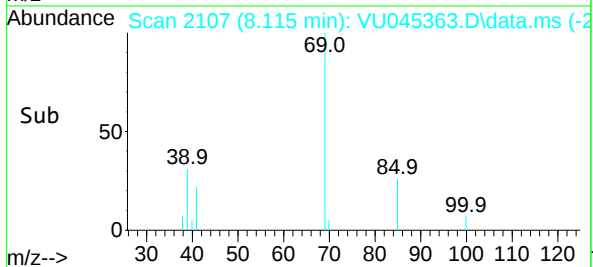
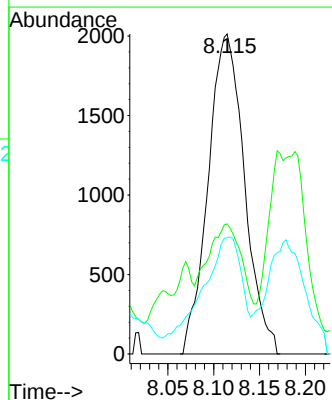
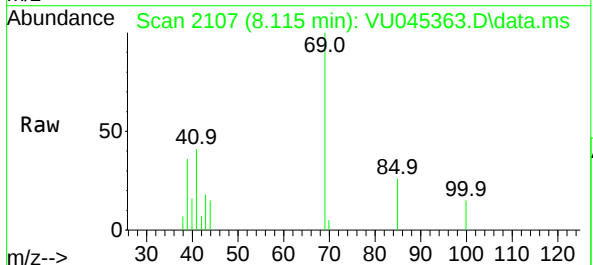
Instrument :
MSVOA_U
ClientSampled :

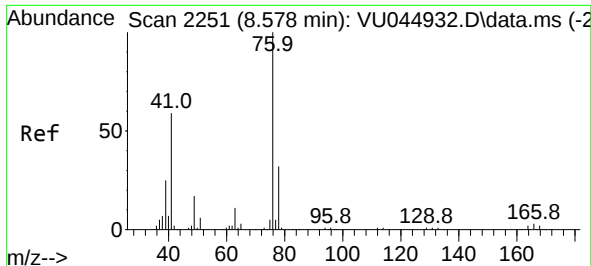
Tgt Ion: 75 Resp: 53282
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.6#
39 25.9 41.4 62.2#



#56
Ethyl methacrylate
Concen: 2.623 ug/l
RT: 8.115 min Scan# 2107
Delta R.T. -0.225 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 69 Resp: 5548
Ion Ratio Lower Upper
69 100
41 21.6 53.5 80.3#
39 33.6 31.1 46.7



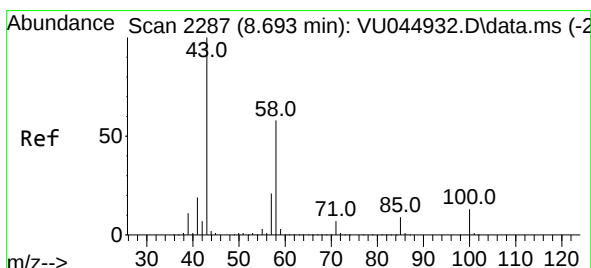
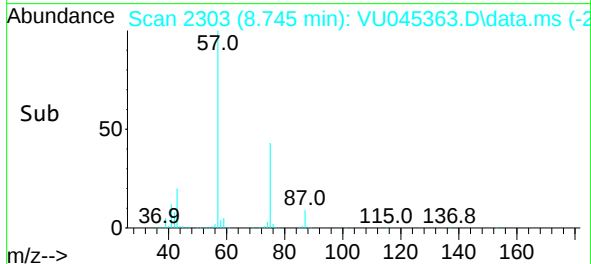
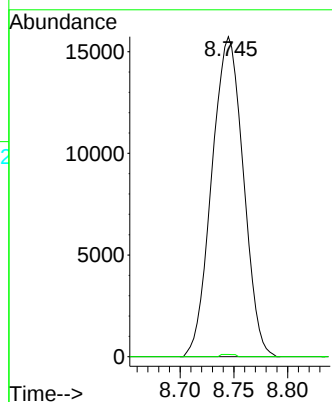
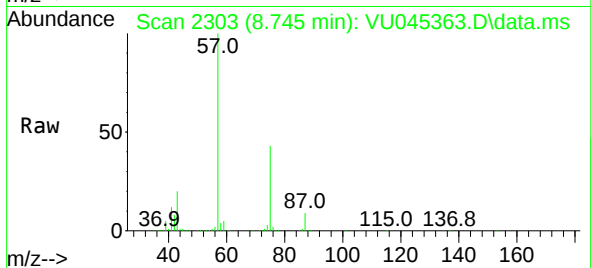


#57

1,3-Dichloropropane
Concen: 5.238 ug/l
RT: 8.745 min Scan# 2303
Delta R.T. 0.167 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Instrument :
MSVOA_U
ClientSampled :

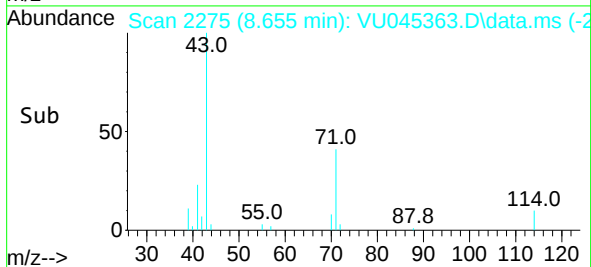
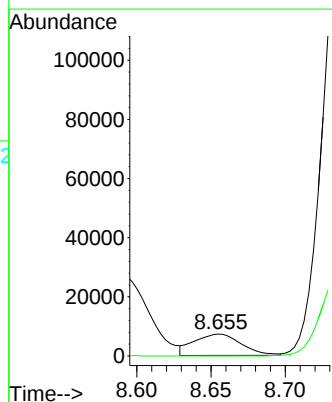
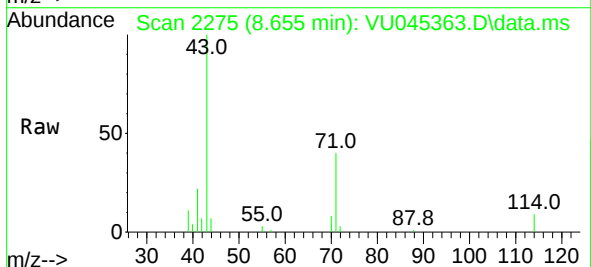
Tgt Ion: 76 Resp: 32099
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#

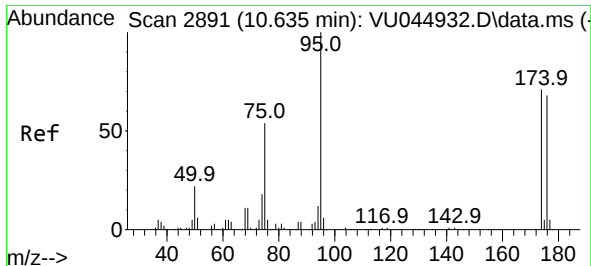


#59

2-Hexanone
Concen: 3.065 ug/l
RT: 8.655 min Scan# 2275
Delta R.T. -0.038 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 43 Resp: 15990
Ion Ratio Lower Upper
43 100
58 0.0 28.0 84.0#

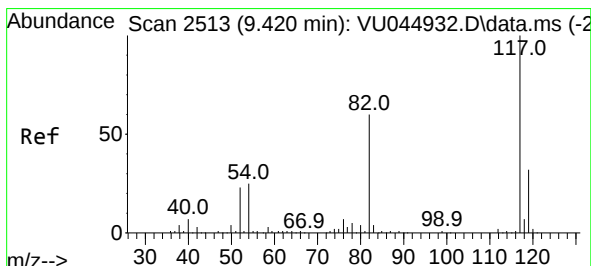
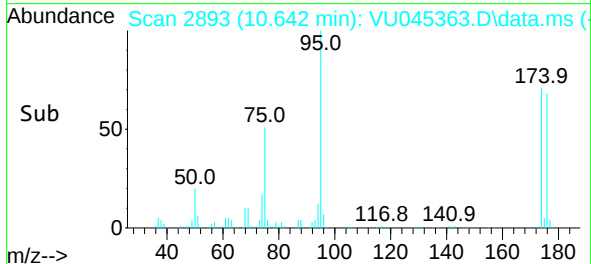
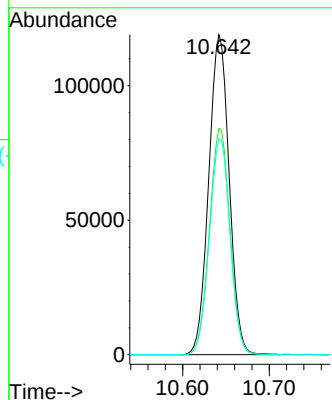
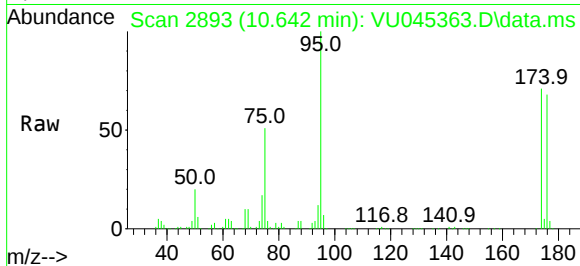




#62
4-Bromofluorobenzene
Concen: 44.846 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. 0.007 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

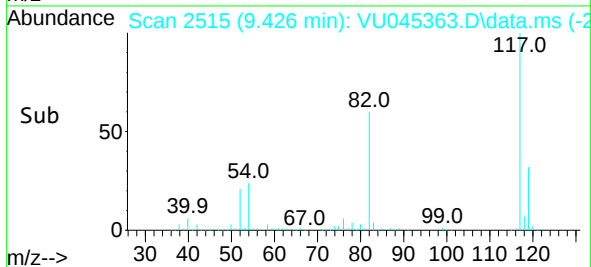
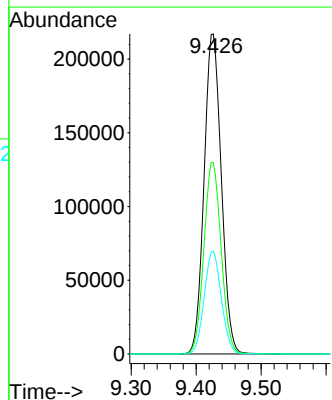
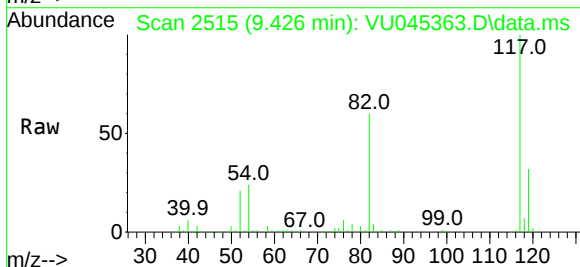
Instrument :
MSVOA_U
ClientSampleId :

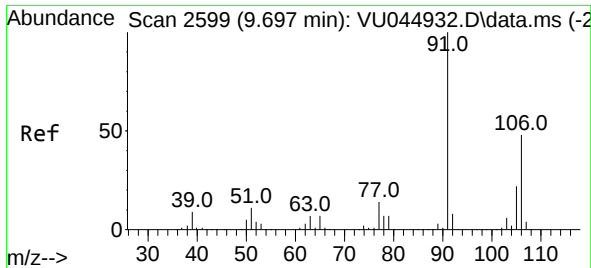
Tgt Ion: 95 Resp: 195082
Ion Ratio Lower Upper
95 100
174 71.2 0.0 146.6
176 68.2 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.426 min Scan# 2515
Delta R.T. 0.006 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion: 117 Resp: 400592
Ion Ratio Lower Upper
117 100
82 59.8 47.8 71.8
119 32.1 25.8 38.6

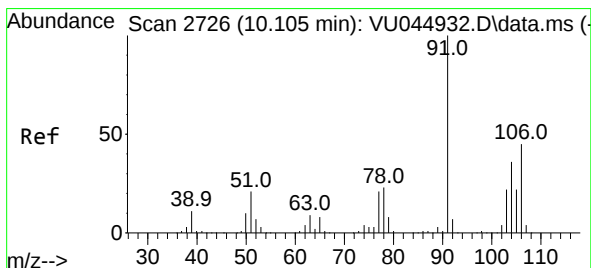
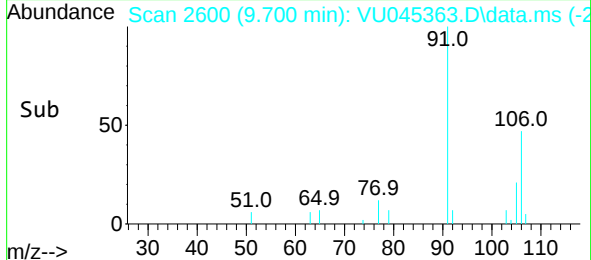
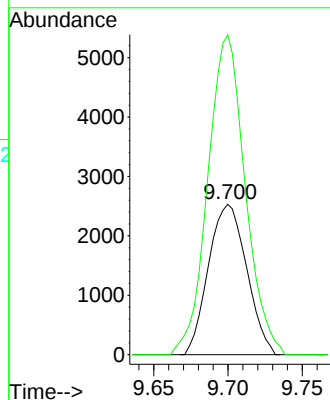
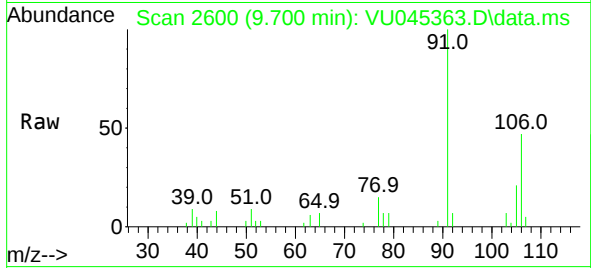




#68
m/p-Xylenes
Concen: 0.753 ug/l
RT: 9.700 min Scan# 2600
Delta R.T. 0.003 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

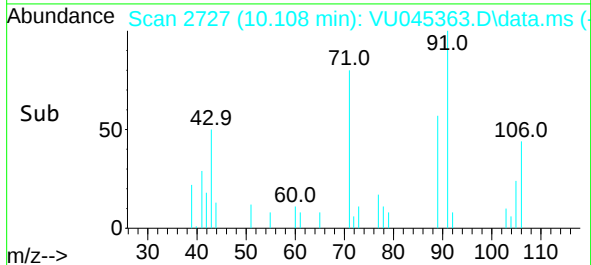
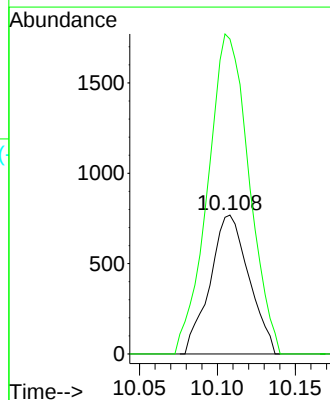
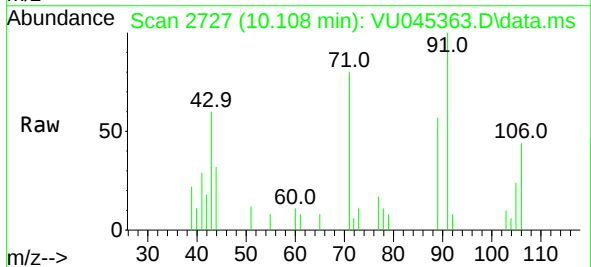
Instrument :
MSVOA_U
ClientSampled :

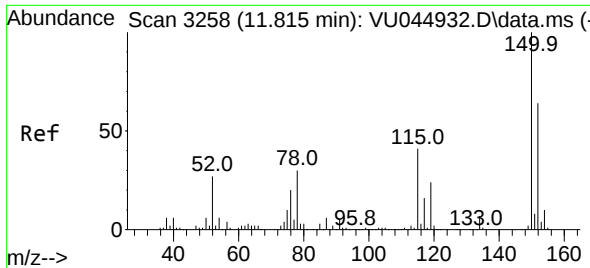
Tgt Ion:106 Resp: 4520
Ion Ratio Lower Upper
106 100
91 208.2 164.2 246.2



#69
o-Xylene
Concen: 0.224 ug/l
RT: 10.108 min Scan# 2727
Delta R.T. 0.003 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Tgt Ion:106 Resp: 1335
Ion Ratio Lower Upper
106 100
91 244.3 108.9 326.7

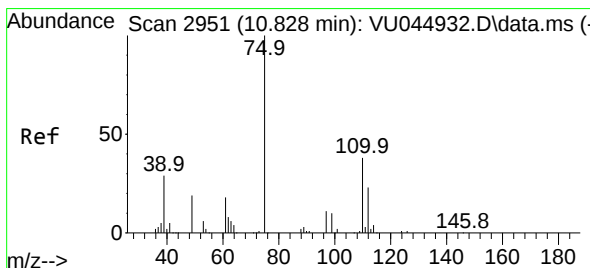
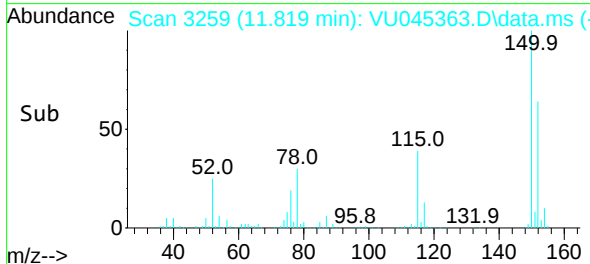
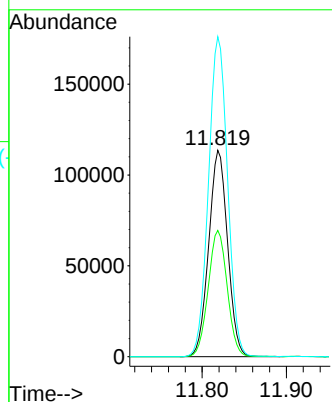
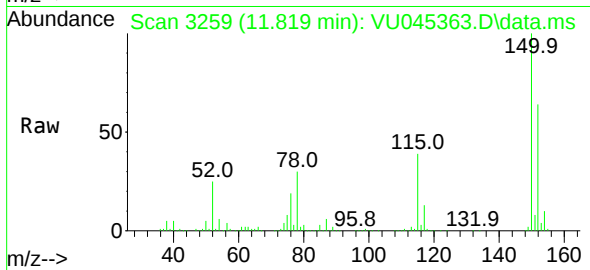




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.819 min Scan# 3259
 Delta R.T. 0.004 min
 Lab File: VU045363.D
 Acq: 22 Oct 2021 14:37

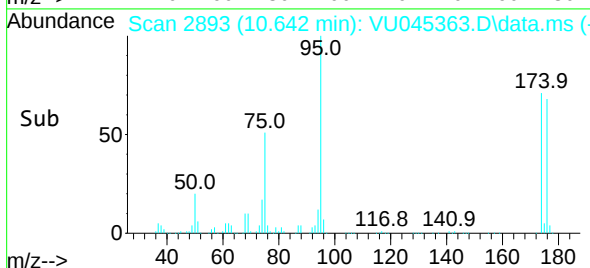
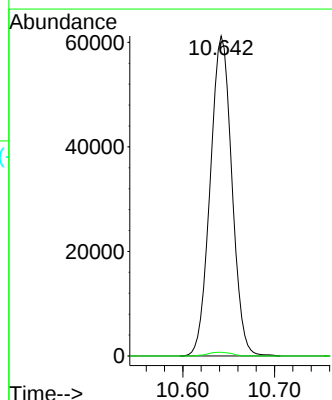
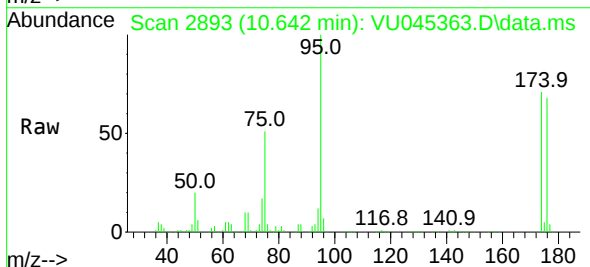
Instrument :
 MSVOA_U
 ClientSampled :

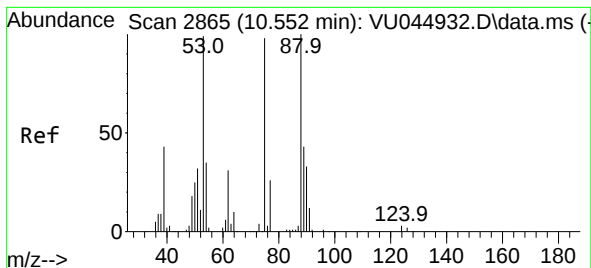
Tgt Ion:152 Resp: 177037
 Ion Ratio Lower Upper
 152 100
 115 61.4 43.5 130.7
 150 156.8 0.0 350.0



#76
 1,2,3-Trichloropropane
 Concen: 19.468 ug/l
 RT: 10.642 min Scan# 2893
 Delta R.T. -0.186 min
 Lab File: VU045363.D
 Acq: 22 Oct 2021 14:37

Tgt Ion: 75 Resp: 100532
 Ion Ratio Lower Upper
 75 100
 77 1.3 17.9 53.7#

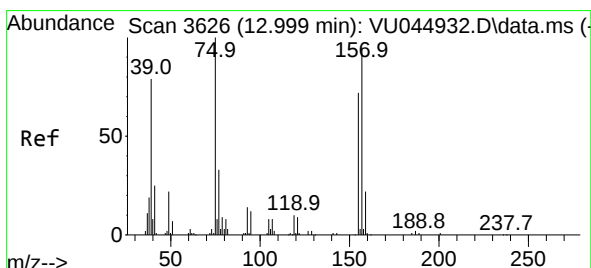
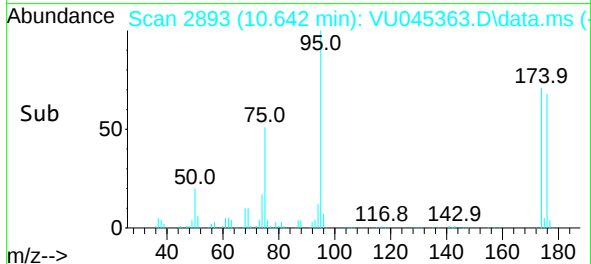
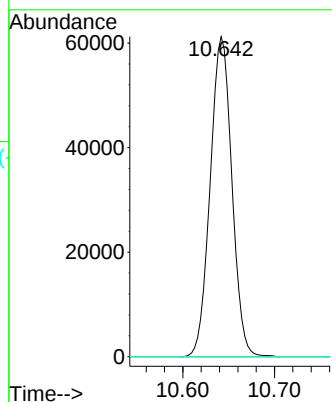
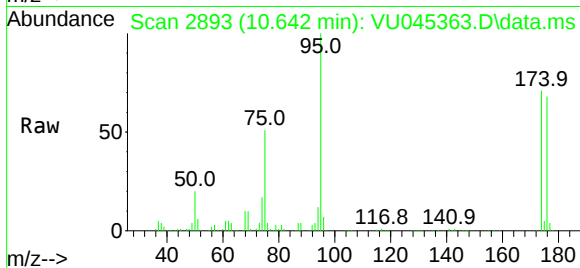




#81
trans-1,4-Dichloro-2-butene
Concen: 54.028 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. 0.090 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

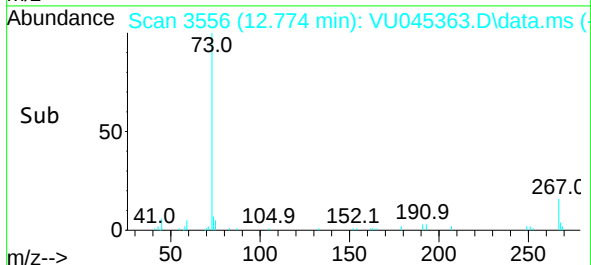
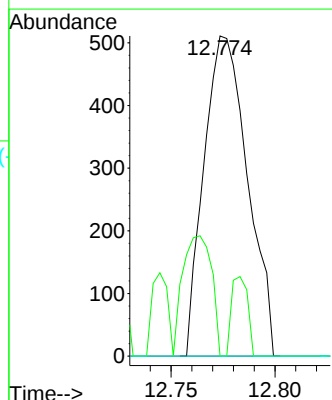
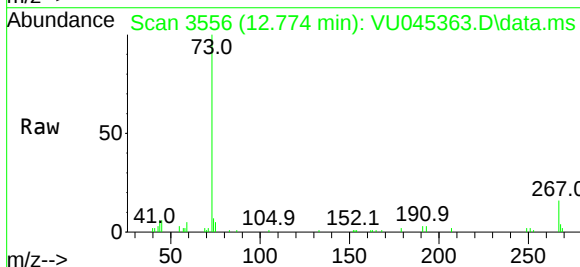
Instrument :
MSVOA_U
ClientSampleId :

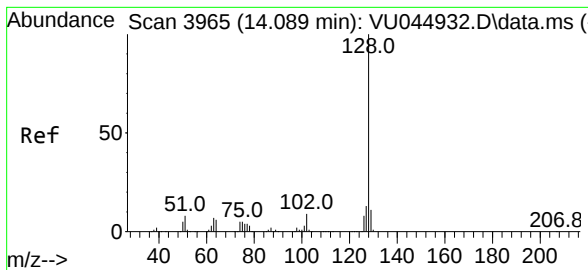
Tgt Ion: 75 Resp: 100532
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.554 ug/l
RT: 12.774 min Scan# 3556
Delta R.T. -0.225 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

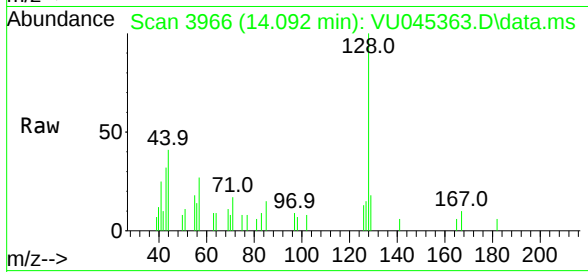
Tgt Ion: 75 Resp: 745
Ion Ratio Lower Upper
75 100
155 9.1 36.9 110.6#
157 0.0 47.8 143.3#





#95
Naphthalene
Concen: 0.254 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU045363.D
Acq: 22 Oct 2021 14:37

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:128 Resp: 3313
Ion Ratio Lower Upper
128 100
127 12.0 10.4 15.6
129 14.1 8.6 13.0#

