

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102221\
 Data File : VU045364.D
 Acq On : 22 Oct 2021 15:00
 Operator : SY/MD
 Sample : M4315-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 01:12:23 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)

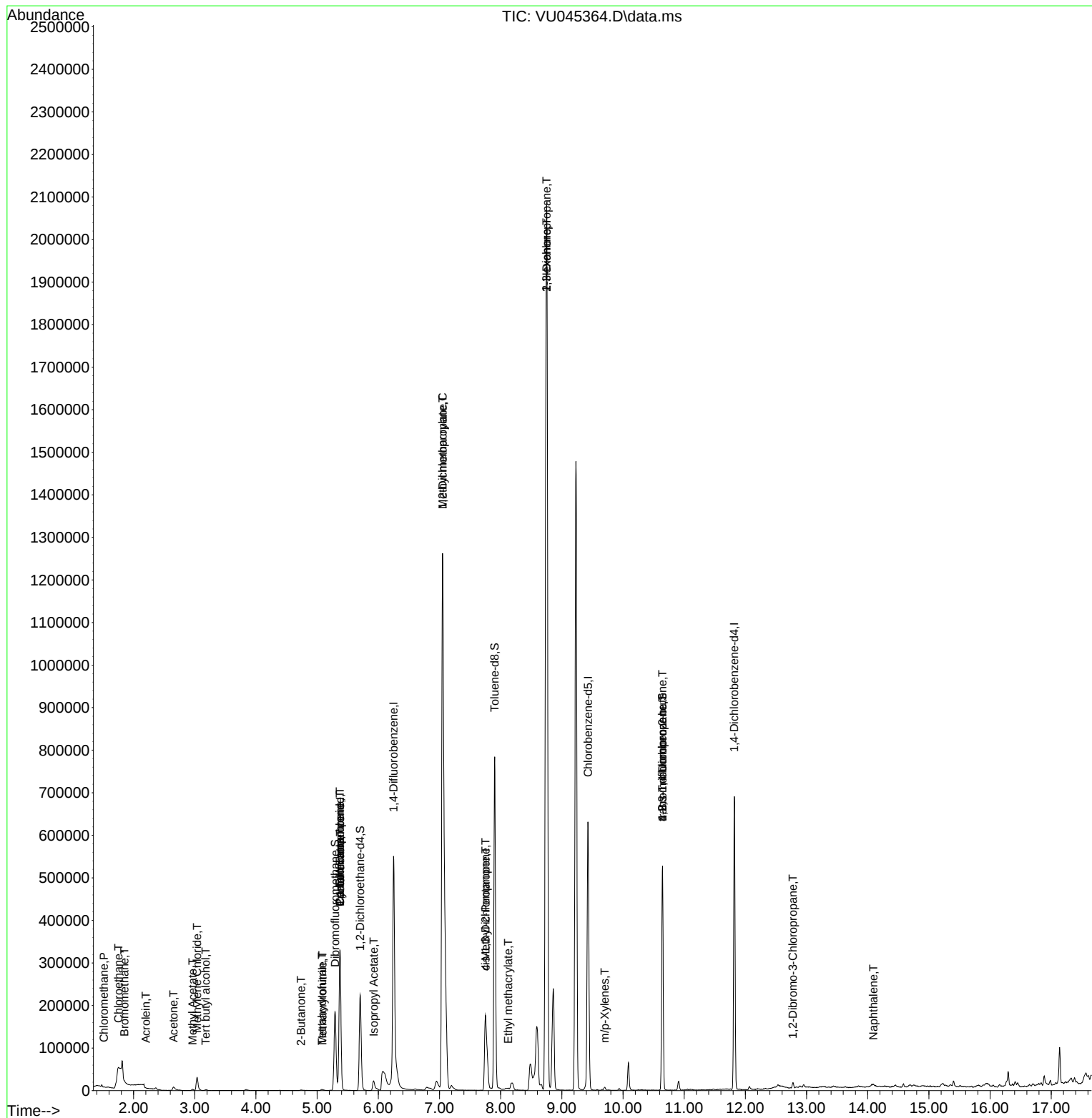
Internal Standards						
1) Pentafluorobenzene	5.375	168	231090	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	437234	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.427	117	398296	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.819	152	169840	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	181786	47.257	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.520%		
35) Dibromofluoromethane	5.292	113	131609	47.715	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.440%		
50) Toluene-d8	7.902	98	545719	50.074	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.140%		
62) 4-Bromofluorobenzene	10.645	95	192696	42.827	ug/l	0.01
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.660%		
Target Compounds						Qvalue
3) Chloromethane	1.517	50	913	0.246	ug/l	90
5) Bromomethane	1.851	94	457	0.315	ug/l	86
6) Chloroethane	1.755	64	100181	35.235	ug/l #	50
11) Tert butyl alcohol	3.179	59	1343	1.216	ug/l #	72
13) Acrolein	2.199	56	21	3.221	ug/l #	1
16) Acetone	2.652	43	14480	6.341	ug/l	98
18) Methyl Acetate	2.964	43	4393	0.658	ug/l	94
20) Methylene Chloride	3.038	84	17203	5.002	ug/l	95
25) 2-Butanone	4.739	43	2813	0.867	ug/l	93
29) Tetrahydrofuran	5.079	42	1953	1.011	ug/l #	86
31) Cyclohexane	5.375	56	5713	0.978	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	21986	4.808	ug/l #	49
38) Carbon Tetrachloride	5.372	117	23630	5.972	ug/l #	15
41) Methacrylonitrile	5.086	41	1210	0.389	ug/l #	39
43) Isopropyl Acetate	5.925	43	33737	3.707	ug/l	100
45) 1,2-Dichloropropane	7.050	63	2189	0.606	ug/l #	45
48) Methyl methacrylate	7.050	41	174466	39.381	ug/l #	42
49) 1,4-Dioxane	7.050	88	165	Below Cal	#	1
51) 4-Methyl-2-Pentanone	7.751	43	111078	16.764	ug/l #	45
54) cis-1,3-Dichloropropene	7.751	75	54823	9.746	ug/l #	58
56) Ethyl methacrylate	8.124	69	5798	2.631	ug/l #	55
57) 1,3-Dichloropropane	8.751	76	33753	5.325	ug/l #	43
59) 2-Hexanone	8.751	43	450424	83.475	ug/l #	50
68) m/p-Xylenes	9.703	106	2403	0.403	ug/l	94
76) 1,2,3-Trichloropropane	10.645	75	100467	20.280	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.645	75	100467	56.281	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	12.774	75	498	0.386	ug/l #	27
95) Naphthalene	14.092	128	2805	0.224	ug/l #	86

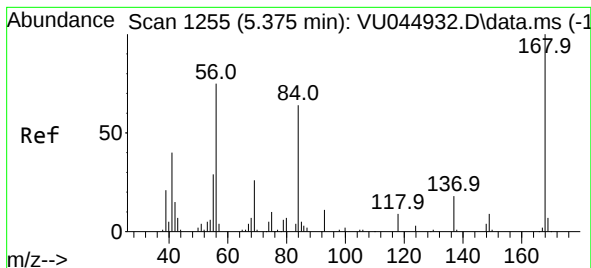
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU045364.D

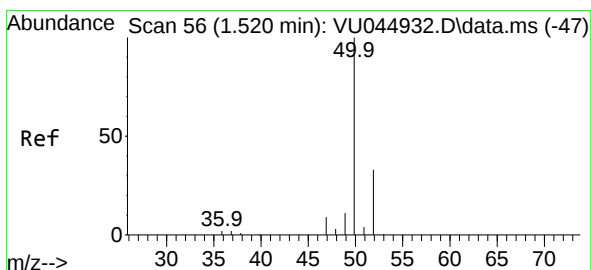
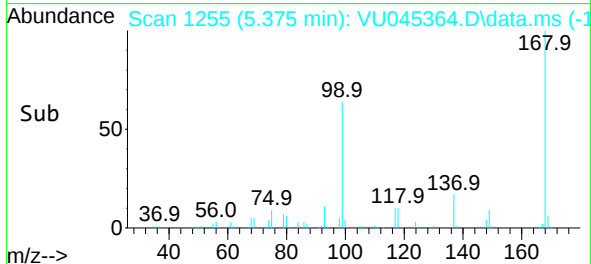
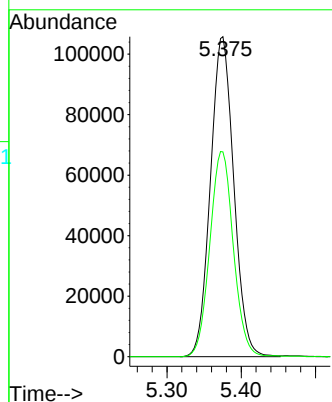
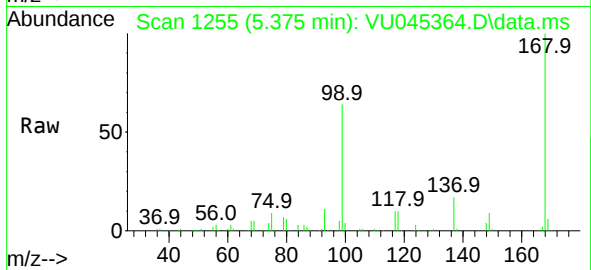
Acq: 22 Oct 2021 15:00

Tgt Ion:168 Resp: 231090

Ion Ratio Lower Upper

168 100

99 64.0 51.4 77.0



#3

Chloromethane

Concen: 0.246 ug/l

RT: 1.517 min Scan# 55

Delta R.T. -0.003 min

Lab File: VU045364.D

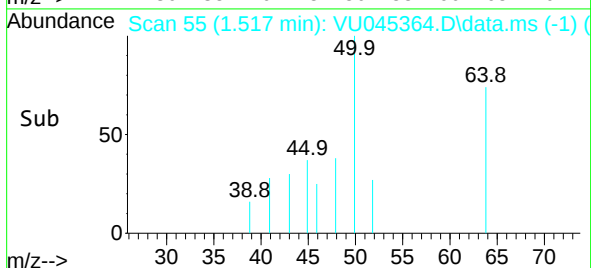
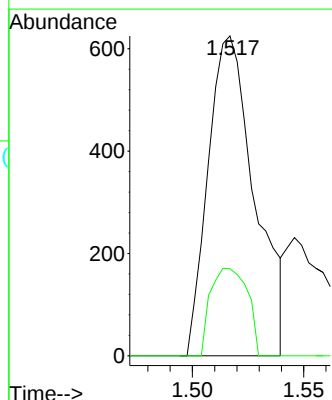
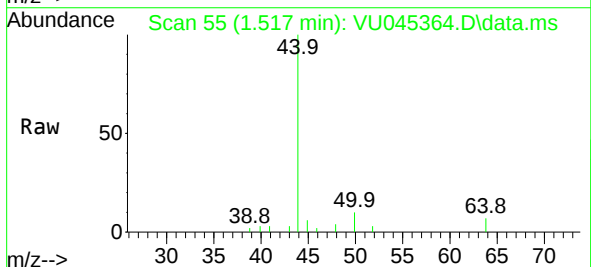
Acq: 22 Oct 2021 15:00

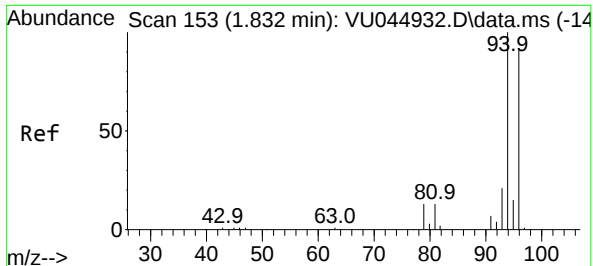
Tgt Ion: 50 Resp: 913

Ion Ratio Lower Upper

50 100

52 27.2 26.3 39.5

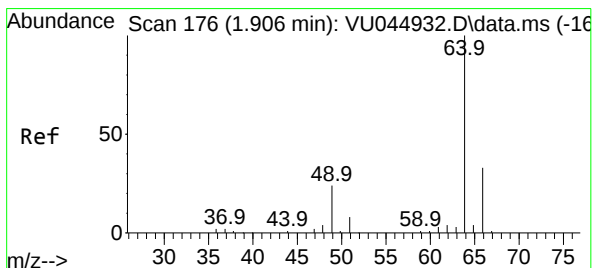
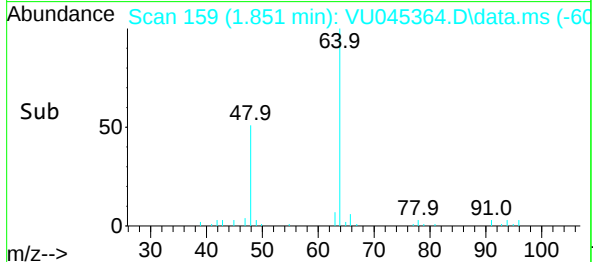
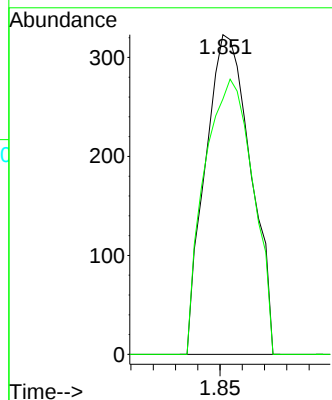
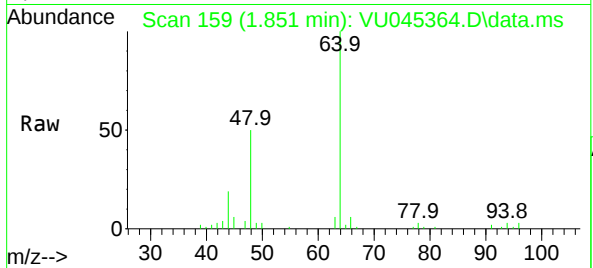




#5
Bromomethane
Concen: 0.315 ug/l
RT: 1.851 min Scan# 159
Delta R.T. 0.019 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

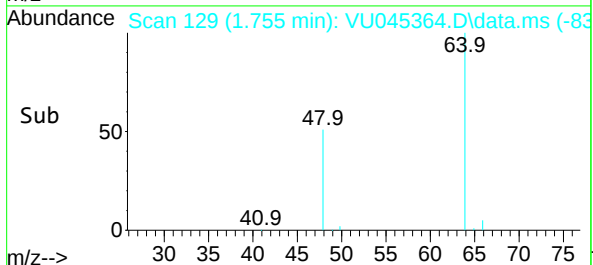
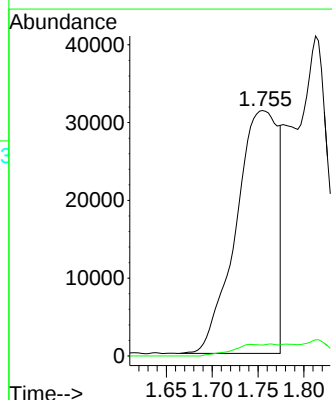
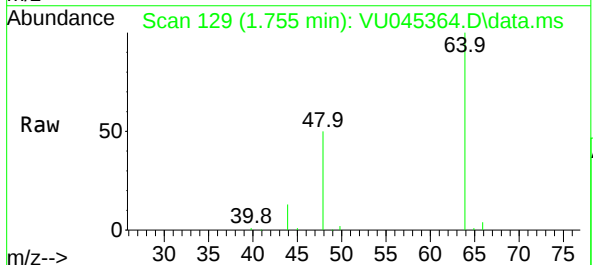
Instrument :
MSVOA_U
ClientSampled :

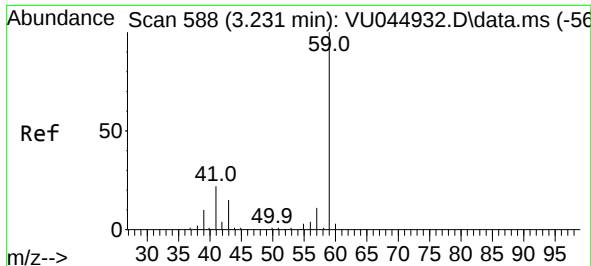
Tgt Ion: 94 Resp: 457
Ion Ratio Lower Upper
94 100
96 79.9 74.5 111.7



#6
Chloroethane
Concen: 35.235 ug/l
RT: 1.755 min Scan# 129
Delta R.T. -0.151 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 64 Resp: 100181
Ion Ratio Lower Upper
64 100
66 4.5 25.8 38.8#

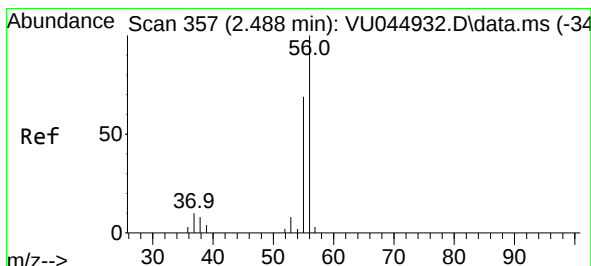
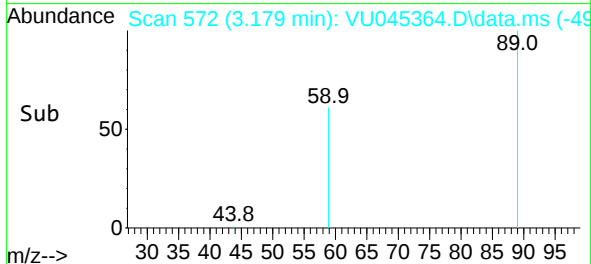
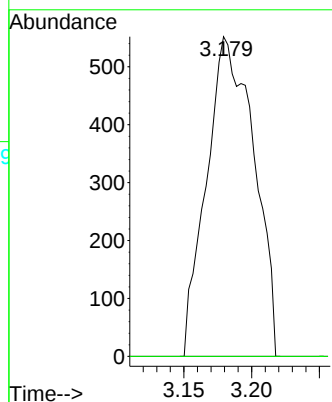
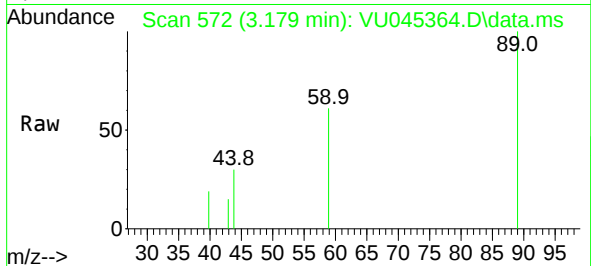




#11
Tert butyl alcohol
Concen: 1.216 ug/l
RT: 3.179 min Scan# 572
Delta R.T. -0.052 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

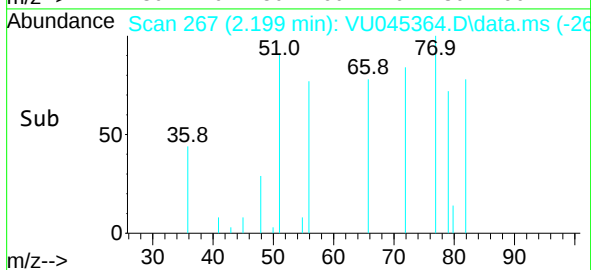
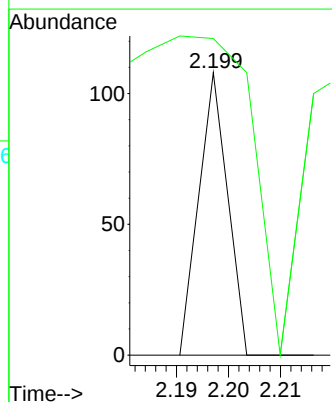
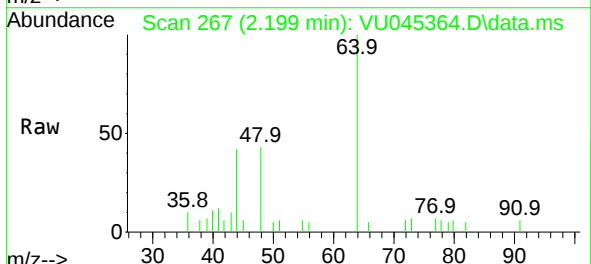
Instrument :
MSVOA_U
ClientSampleId :

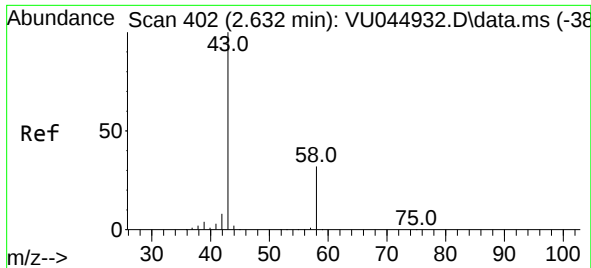
Tgt Ion: 59 Resp: 1343
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 3.221 ug/l
RT: 2.199 min Scan# 267
Delta R.T. -0.289 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 56 Resp: 21
Ion Ratio Lower Upper
56 100
55 290.5 57.4 86.0#

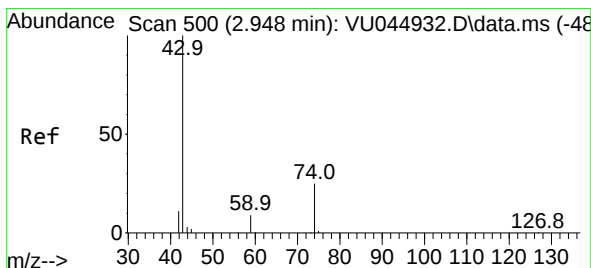
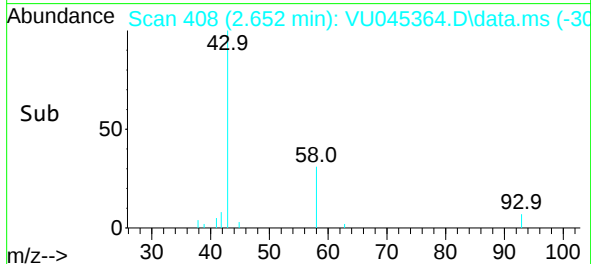
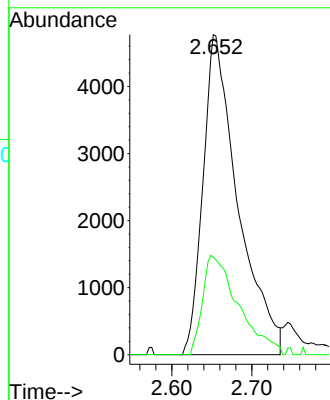
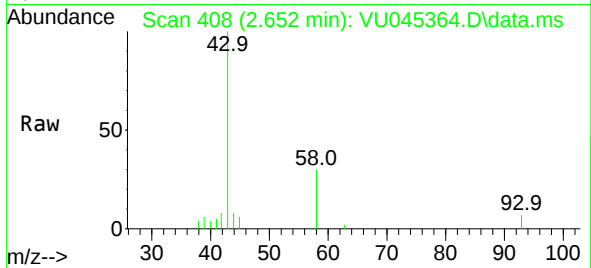




#16
Acetone
Concen: 6.341 ug/l
RT: 2.652 min Scan# 408
Delta R.T. 0.020 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

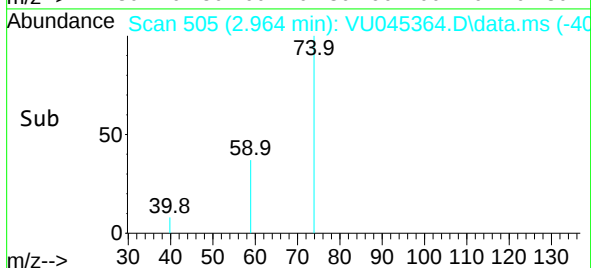
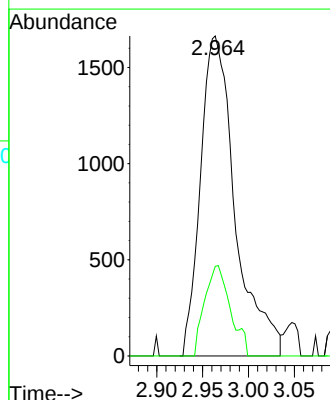
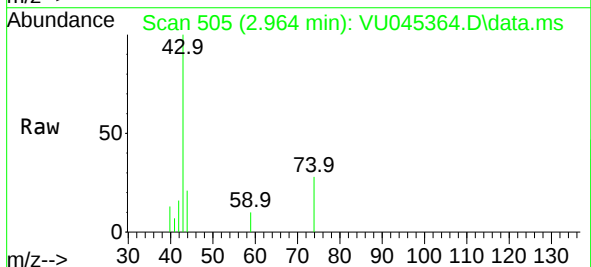
Instrument :
MSVOA_U
ClientSampled :

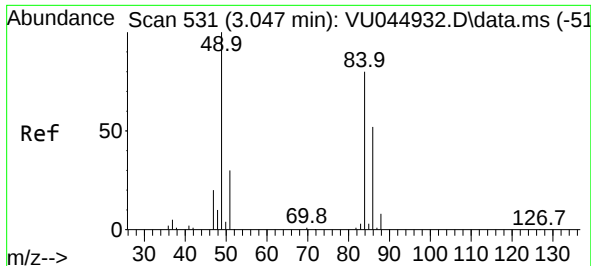
Tgt Ion: 43 Resp: 14480
Ion Ratio Lower Upper
43 100
58 30.4 25.2 37.8



#18
Methyl Acetate
Concen: 0.658 ug/l
RT: 2.964 min Scan# 505
Delta R.T. 0.016 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 43 Resp: 4393
Ion Ratio Lower Upper
43 100
74 20.8 19.0 28.6



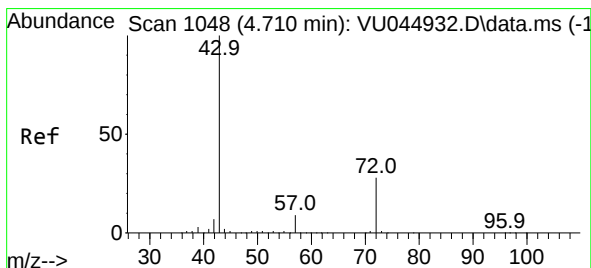
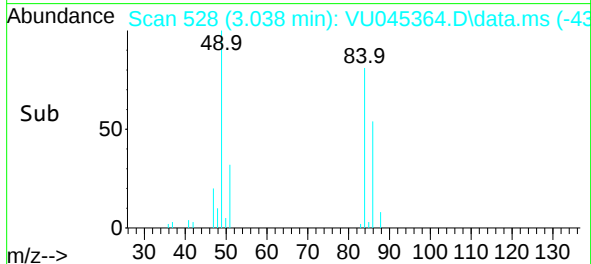
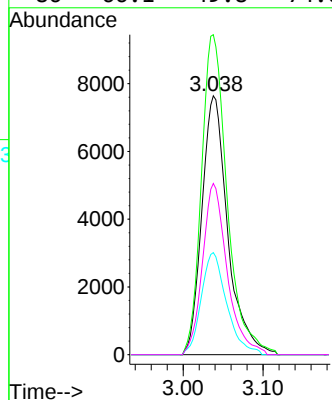
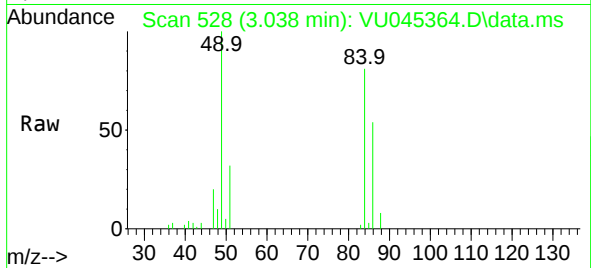


#20
Methylene Chloride
Concen: 5.002 ug/l
RT: 3.038 min Scan# 528
Delta R.T. -0.009 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 84 Resp: 17203

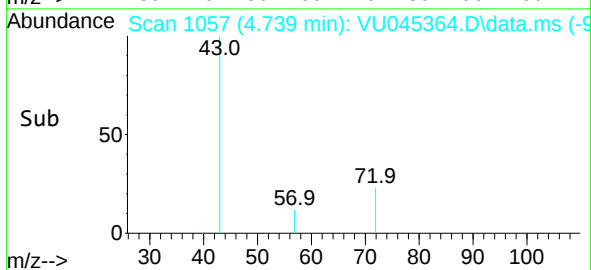
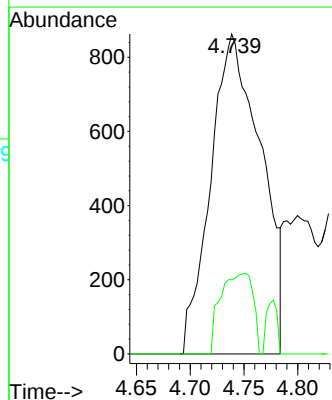
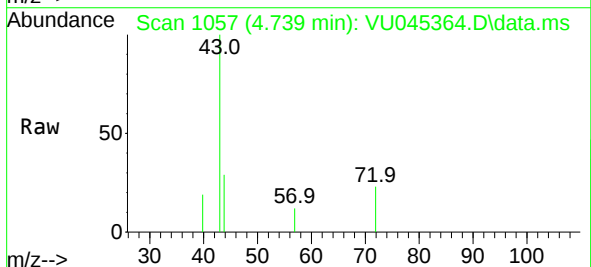
Ion	Ratio	Lower	Upper
84	100		
49	123.6	104.9	157.3
51	39.5	31.8	47.8
86	66.1	49.8	74.6

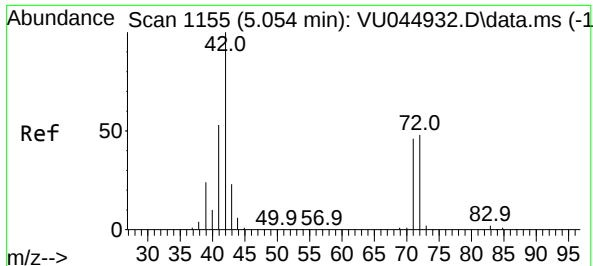


#25
2-Butanone
Concen: 0.867 ug/l
RT: 4.739 min Scan# 1057
Delta R.T. 0.029 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 43 Resp: 2813

Ion	Ratio	Lower	Upper
43	100		
72	23.2	21.3	31.9





#29

Tetrahydrofuran

Concen: 1.011 ug/l

RT: 5.079 min Scan# 1163

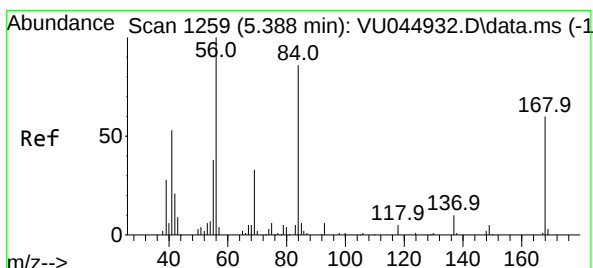
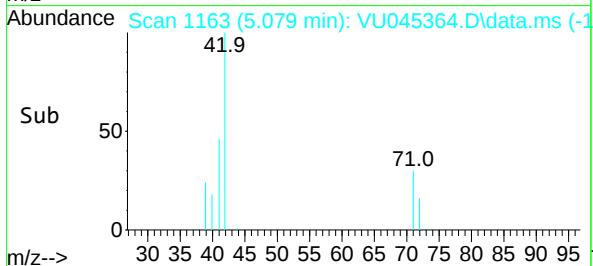
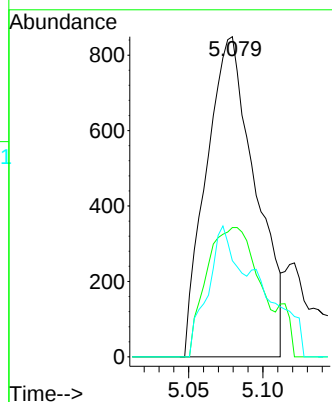
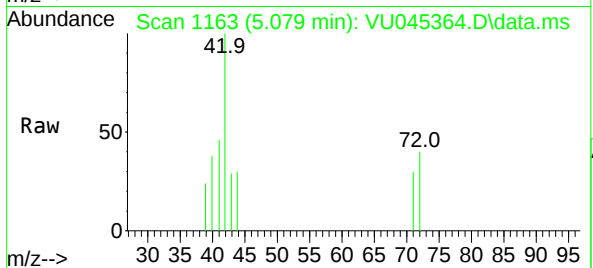
Delta R.T. 0.025 min

Lab File: VU045364.D

Acq: 22 Oct 2021 15:00

Tgt Ion:	42	Resp:	1953
Ion	Ratio	Lower	Upper
42	100		
72	43.0	36.2	54.4
71	26.4	34.1	51.1#

Instrument :
MSVOA_U
ClientSampleId :



#31

Cyclohexane

Concen: 0.978 ug/l

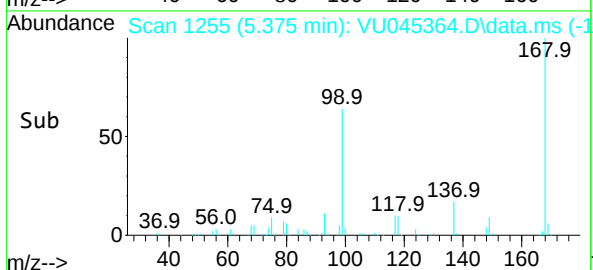
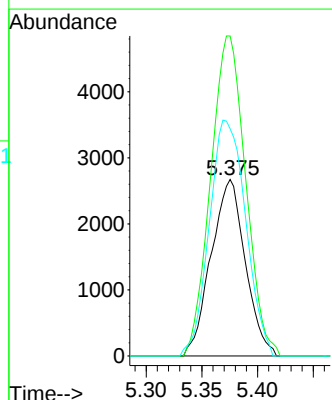
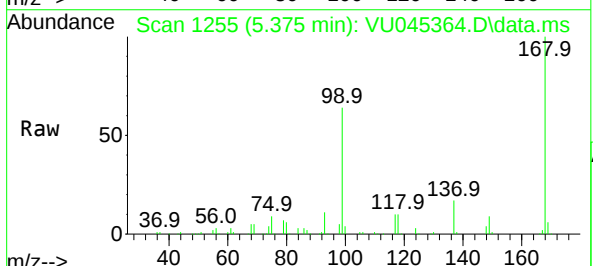
RT: 5.375 min Scan# 1255

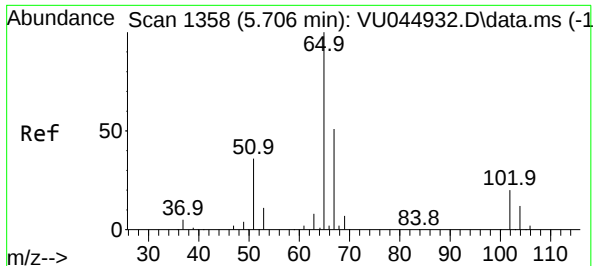
Delta R.T. -0.013 min

Lab File: VU045364.D

Acq: 22 Oct 2021 15:00

Tgt Ion:	56	Resp:	5713
Ion	Ratio	Lower	Upper
56	100		
69	181.3	25.2	37.8#
84	128.7	66.4	99.6#

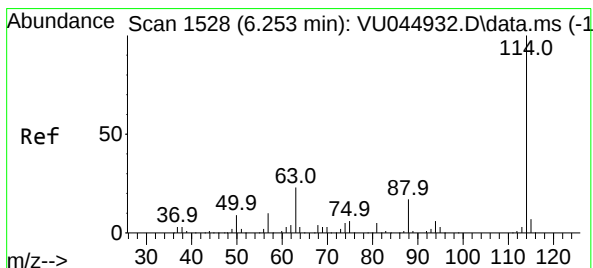
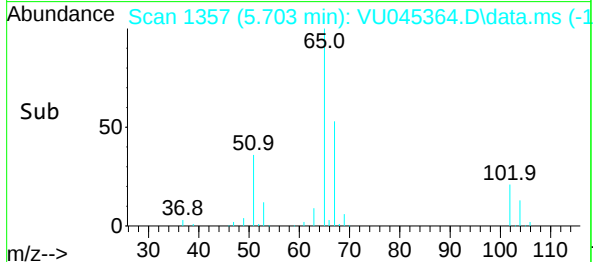
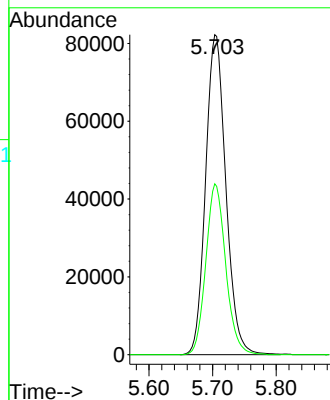
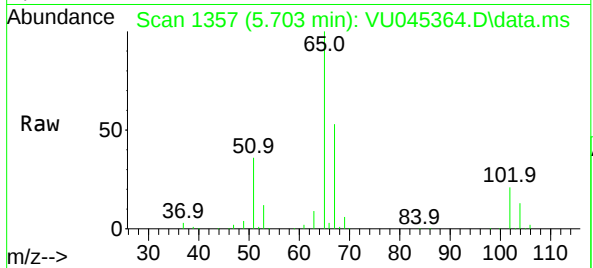




#33
1,2-Dichloroethane-d4
Concen: 47.257 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

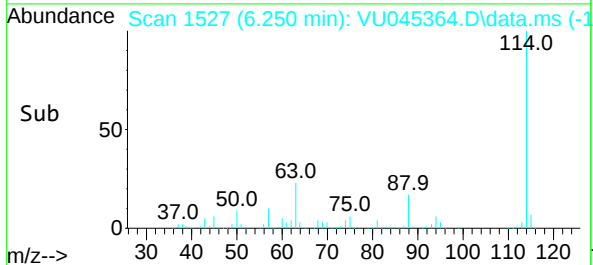
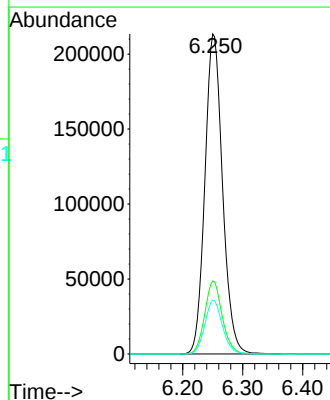
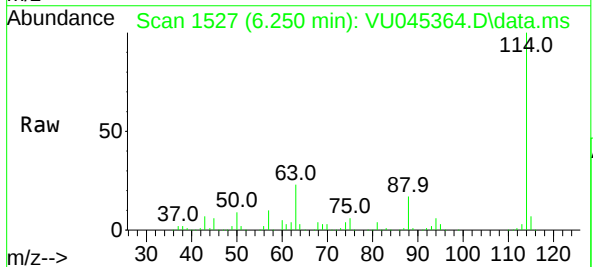
Instrument :
MSVOA_U
ClientSampled :

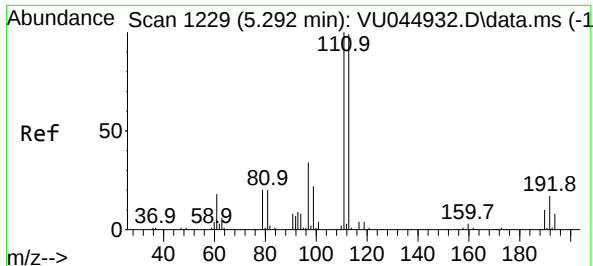
Tgt Ion: 65 Resp: 181786
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.250 min Scan# 1527
Delta R.T. -0.003 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

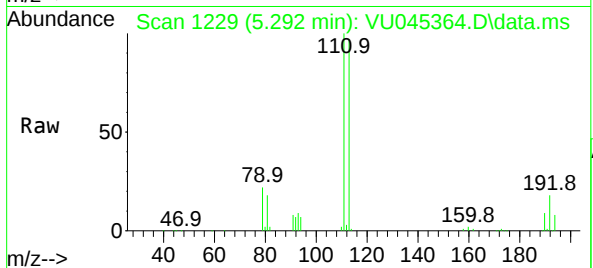
Tgt Ion: 114 Resp: 437234
Ion Ratio Lower Upper
114 100
63 22.8 0.0 47.8
88 16.8 0.0 32.8



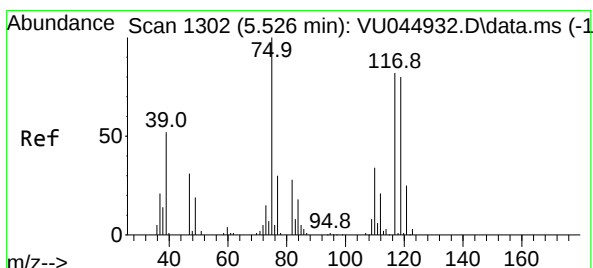
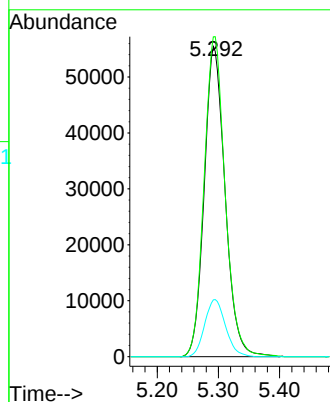
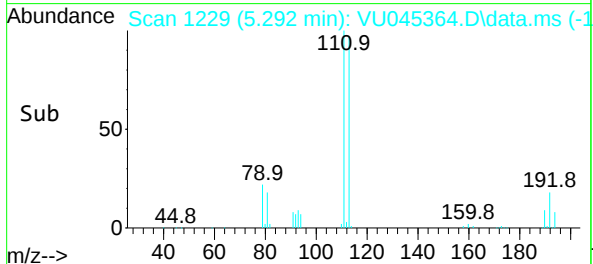


#35
Dibromofluoromethane
Concen: 47.715 ug/l
RT: 5.292 min Scan# 1229
Delta R.T. -0.000 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

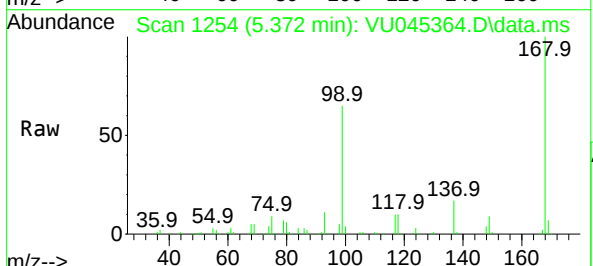
Instrument :
MSVOA_U
ClientSampleId :



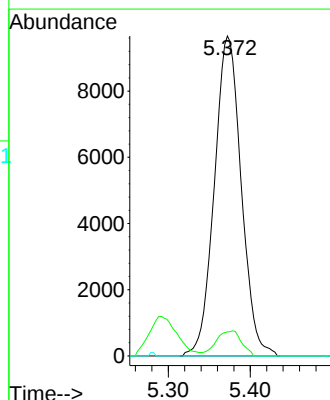
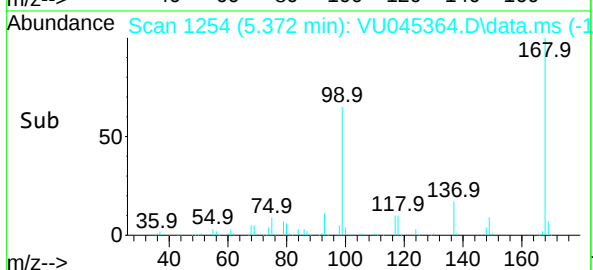
Tgt Ion:113 Resp: 131609
Ion Ratio Lower Upper
113 100
111 103.7 84.1 126.1
192 18.4 14.8 22.2

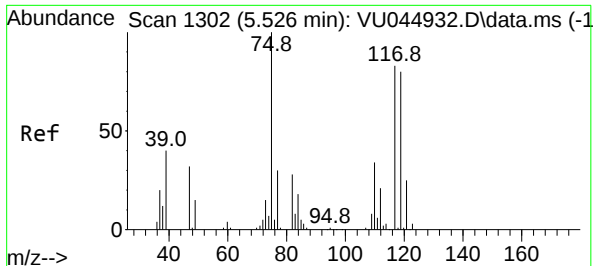


#36
1,1-Dichloropropene
Concen: 4.808 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00



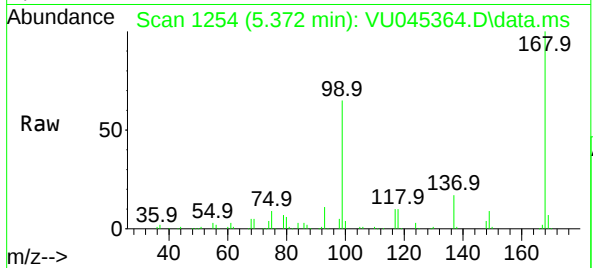
Tgt Ion: 75 Resp: 21986
Ion Ratio Lower Upper
75 100
110 7.4 16.3 48.9#
77 0.0 25.0 37.4#



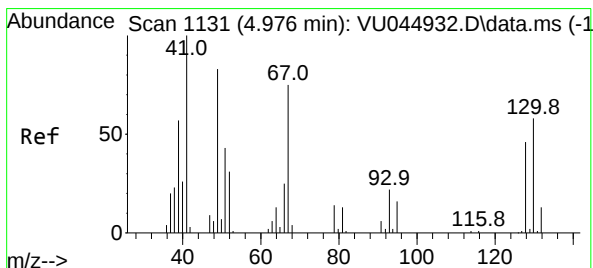
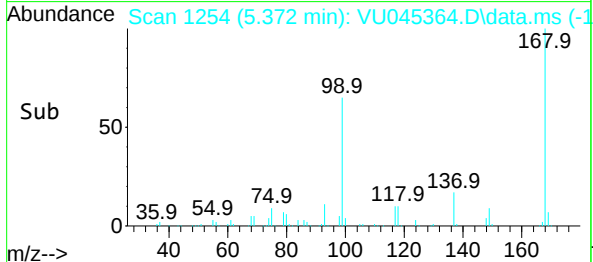
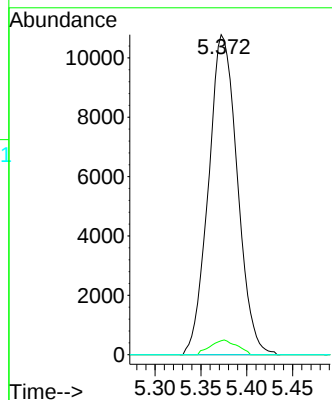


#38
Carbon Tetrachloride
Concen: 5.972 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Instrument :
MSVOA_U
ClientSampleId :

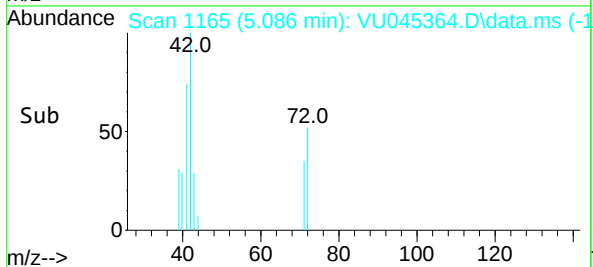
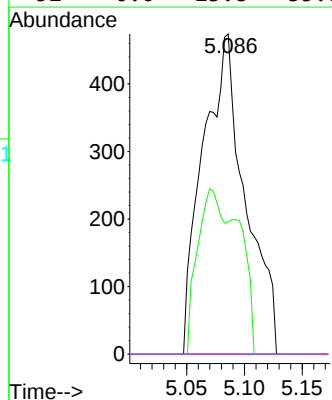
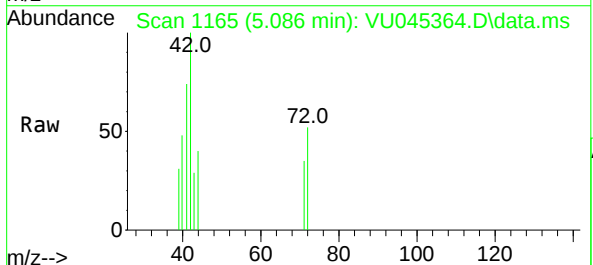


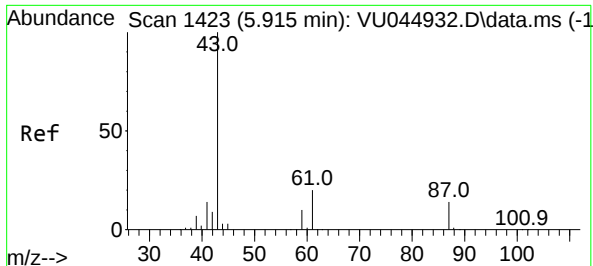
Tgt Ion: 117 Resp: 23630
Ion Ratio Lower Upper
117 100
119 4.3 77.4 116.2#
121 0.0 24.5 36.7#



#41
Methacrylonitrile
Concen: 0.389 ug/l
RT: 5.086 min Scan# 1165
Delta R.T. 0.110 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 41 Resp: 1210
Ion Ratio Lower Upper
41 100
39 34.0 44.4 66.6#
67 0.0 58.1 87.1#
52 0.0 23.8 35.8#

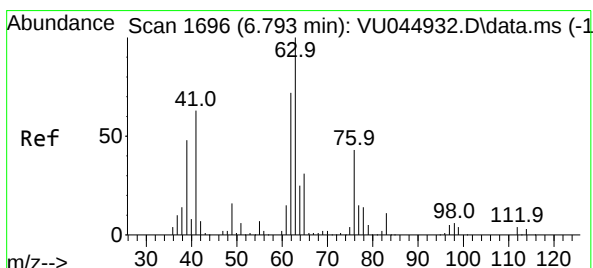
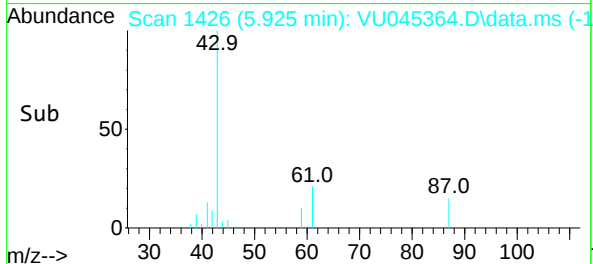
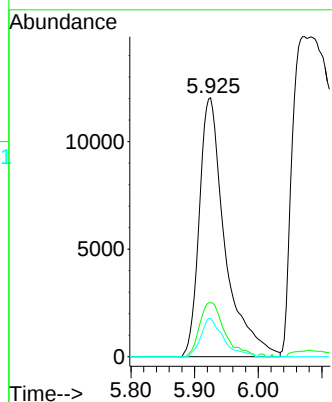
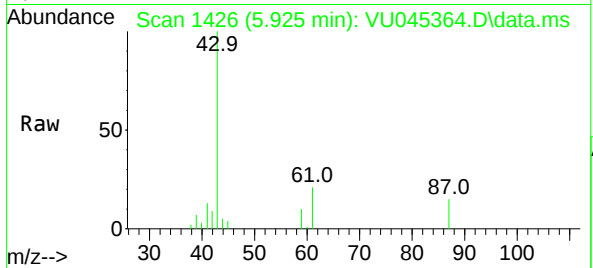




#43
Isopropyl Acetate
Concen: 3.707 ug/l
RT: 5.925 min Scan# 1426
Delta R.T. 0.010 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

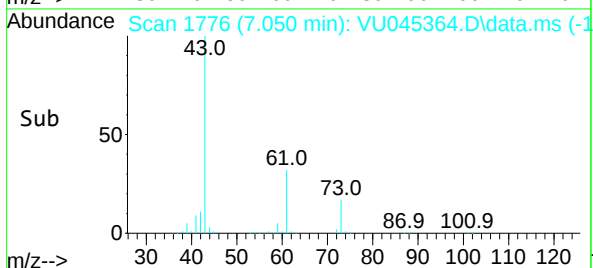
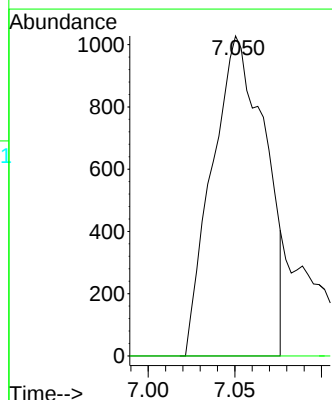
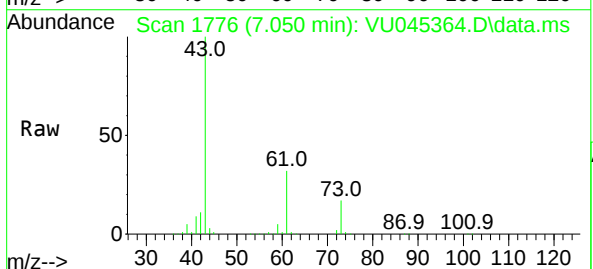
Instrument :
MSVOA_U
ClientSampled :

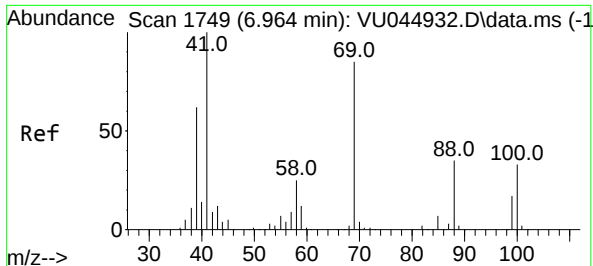
Tgt Ion: 43 Resp: 33737
Ion Ratio Lower Upper
43 100
61 20.2 16.1 24.1
87 13.0 10.3 15.5



#45
1,2-Dichloropropane
Concen: 0.606 ug/l
RT: 7.050 min Scan# 1776
Delta R.T. 0.257 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 63 Resp: 2189
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



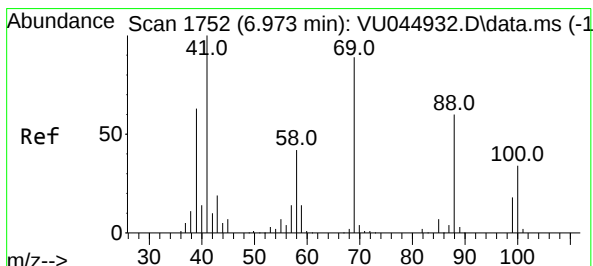
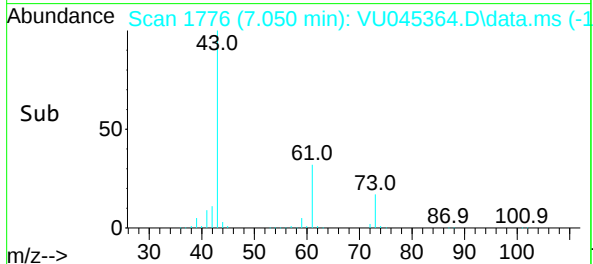
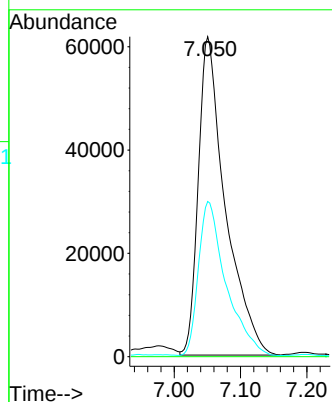
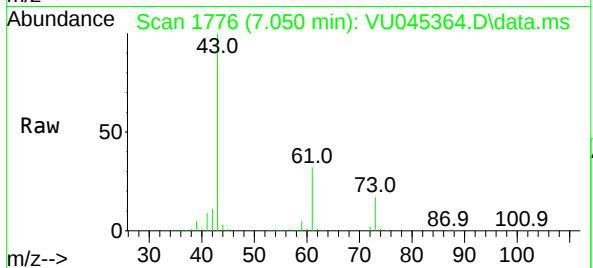


#48

Methyl methacrylate
Concen: 39.381 ug/l
RT: 7.050 min Scan# 1776
Delta R.T. 0.086 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Instrument :
MSVOA_U
ClientSampled :

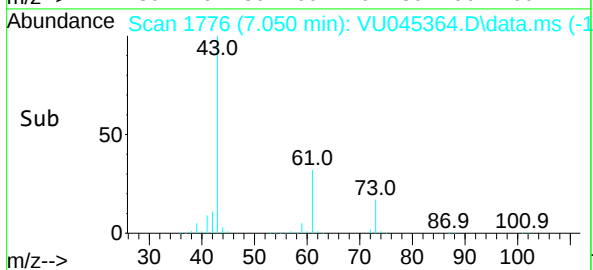
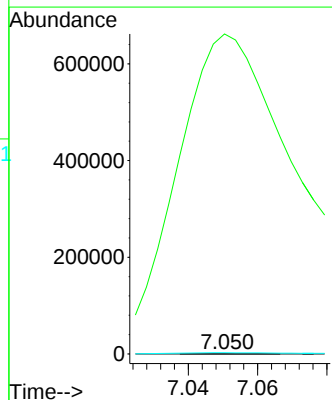
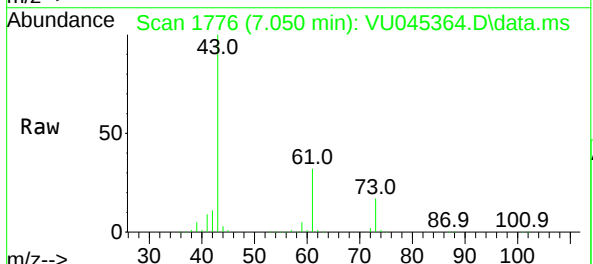
Tgt Ion: 41 Resp: 174466
Ion Ratio Lower Upper
41 100
69 0.0 65.6 98.4#
39 49.4 46.2 69.4

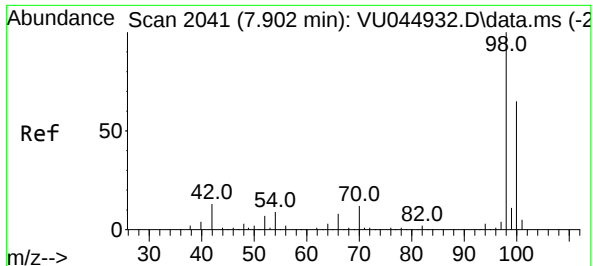


#49

1,4-Dioxane
Concen: Below Cal
RT: 7.050 min Scan# 1776
Delta R.T. 0.077 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 88 Resp: 165
Ion Ratio Lower Upper
88 100
43 1152819.4 25.8 38.6#
58 4653.9 61.3 91.9#

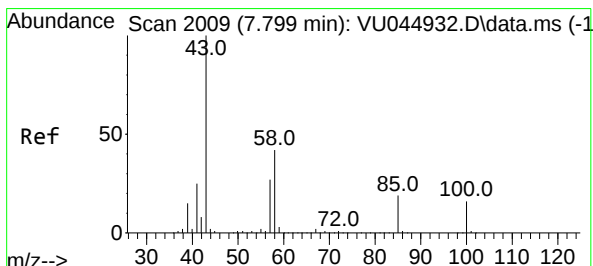
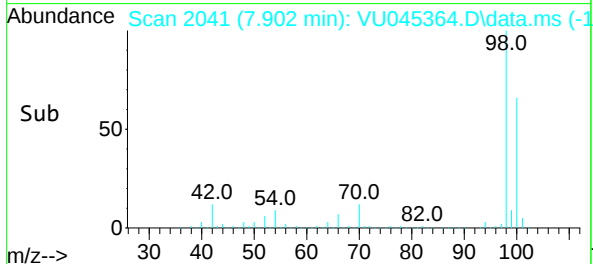
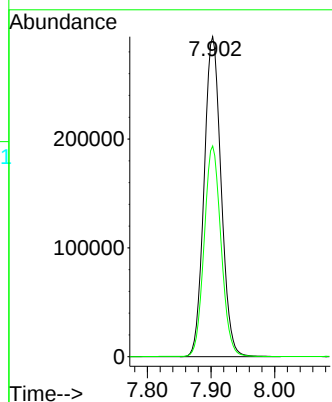
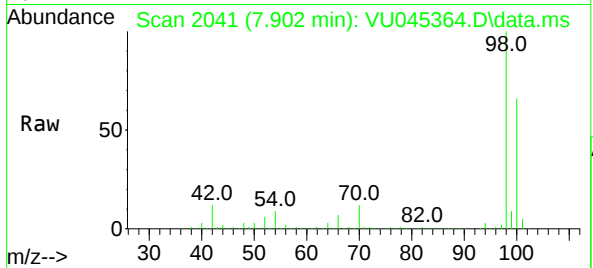




#50
Toluene-d8
Concen: 50.074 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

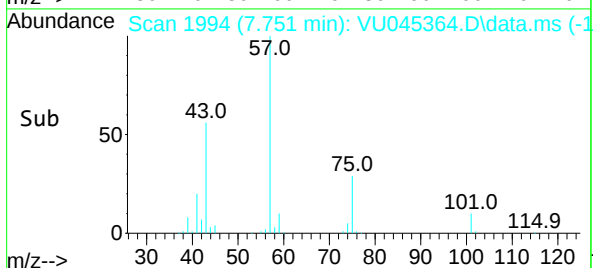
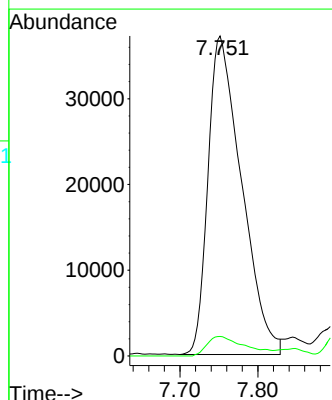
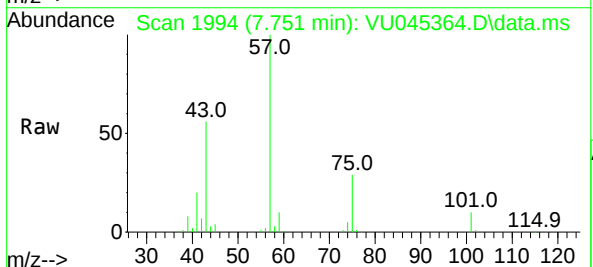
Instrument :
MSVOA_U
ClientSampled :

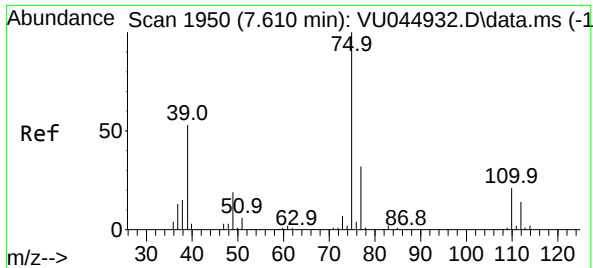
Tgt Ion: 98 Resp: 545719
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 16.764 ug/l
RT: 7.751 min Scan# 1994
Delta R.T. -0.048 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 43 Resp: 111078
Ion Ratio Lower Upper
43 100
58 6.5 32.4 48.6#

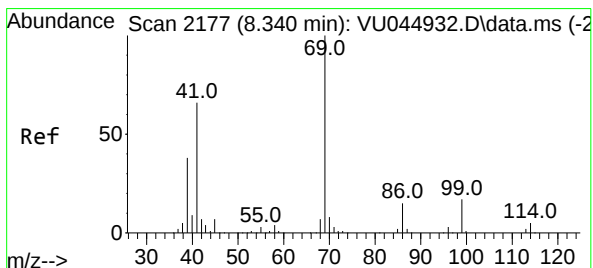
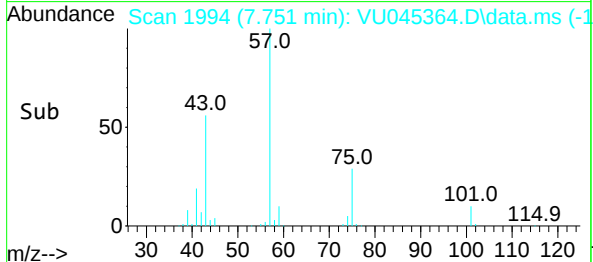
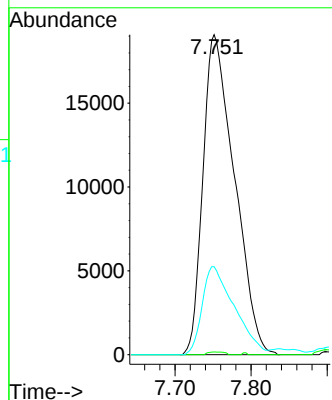
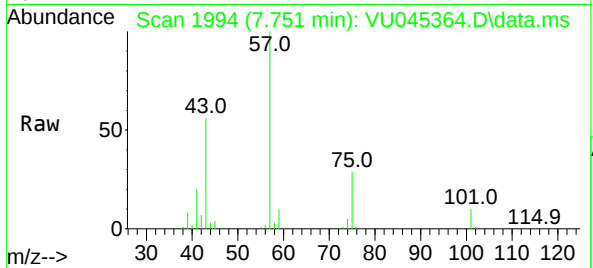




#54
 cis-1,3-Dichloropropene
 Concen: 9.746 ug/l
 RT: 7.751 min Scan# 1994
 Delta R.T. 0.141 min
 Lab File: VU045364.D
 Acq: 22 Oct 2021 15:00

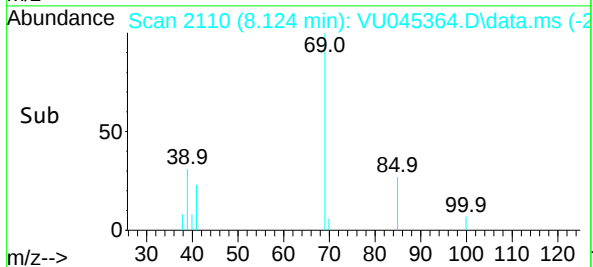
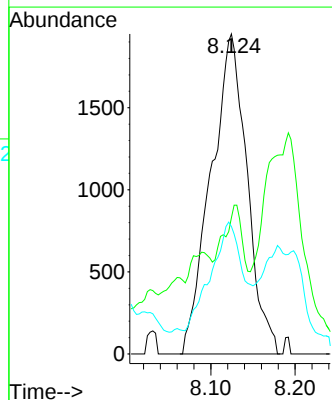
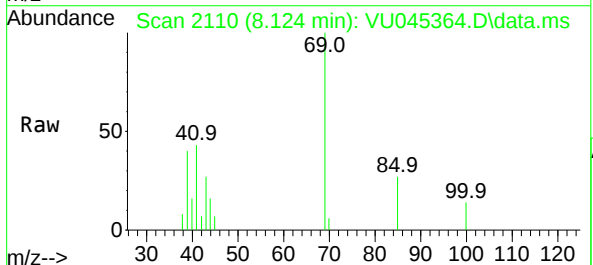
Instrument :
 MSVOA_U
 ClientSampled :

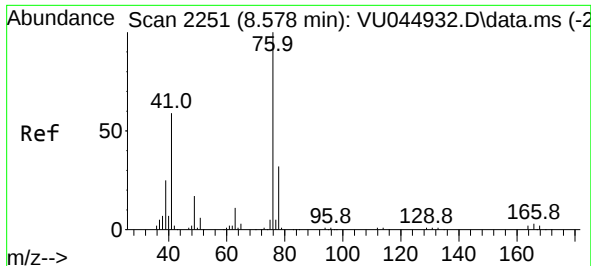
Tgt Ion: 75 Resp: 54823
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.6#
 39 27.5 41.4 62.2#



#56
 Ethyl methacrylate
 Concen: 2.631 ug/l
 RT: 8.124 min Scan# 2110
 Delta R.T. -0.216 min
 Lab File: VU045364.D
 Acq: 22 Oct 2021 15:00

Tgt Ion: 69 Resp: 5798
 Ion Ratio Lower Upper
 69 100
 41 16.6 53.5 80.3#
 39 29.8 31.1 46.7#



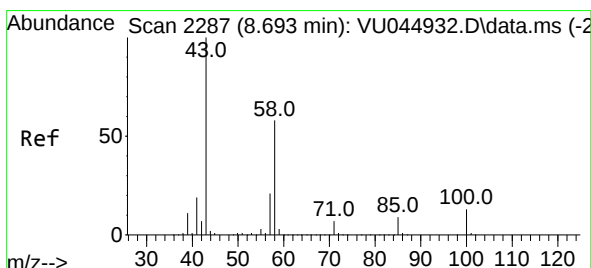
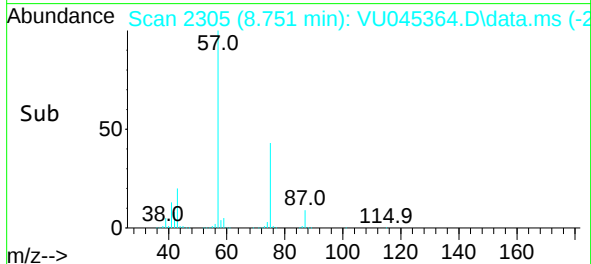
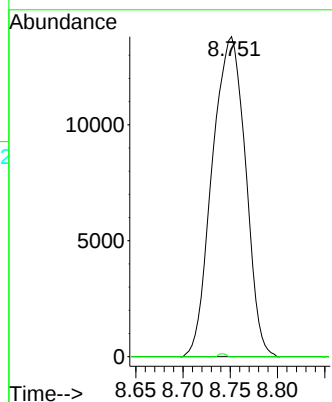
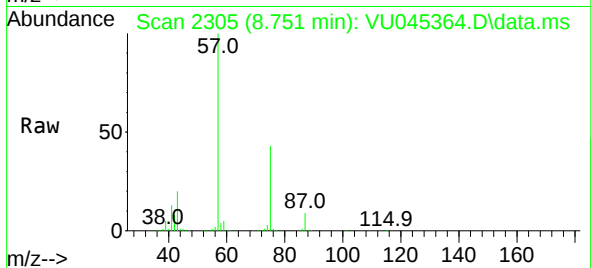


#57

1,3-Dichloropropane
Concen: 5.325 ug/l
RT: 8.751 min Scan# 2305
Delta R.T. 0.173 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Instrument :
MSVOA_U
ClientSampled :

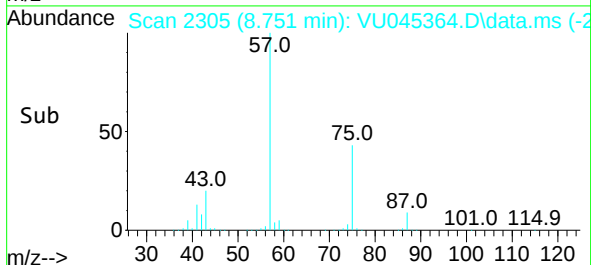
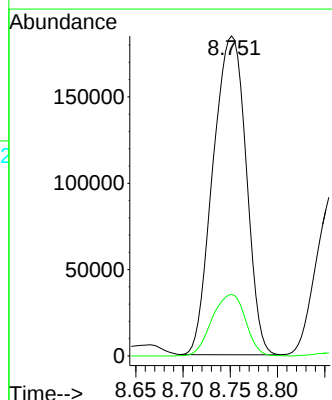
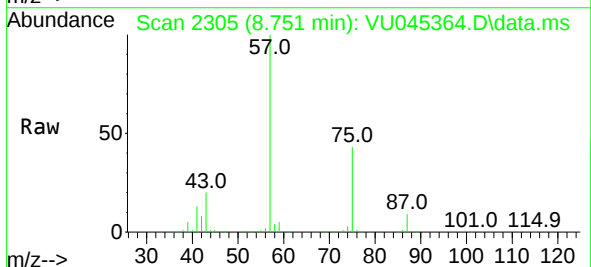
Tgt Ion: 76 Resp: 33753
Ion Ratio Lower Upper
76 100
78 0.2 25.7 38.5#

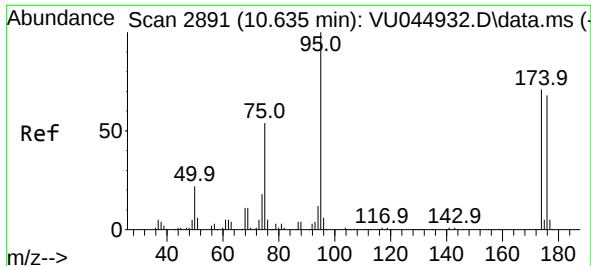


#59

2-Hexanone
Concen: 83.475 ug/l
RT: 8.751 min Scan# 2305
Delta R.T. 0.058 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 43 Resp: 450424
Ion Ratio Lower Upper
43 100
58 19.5 28.0 84.0#

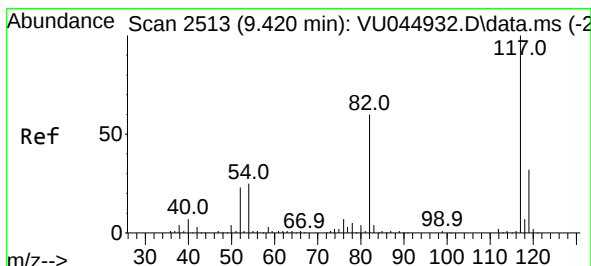
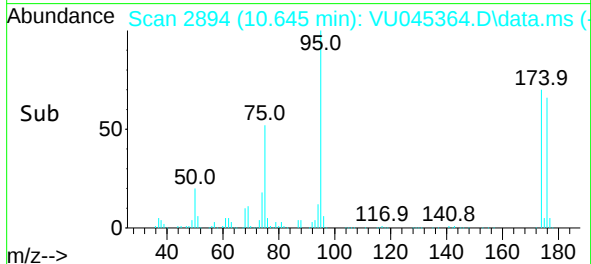
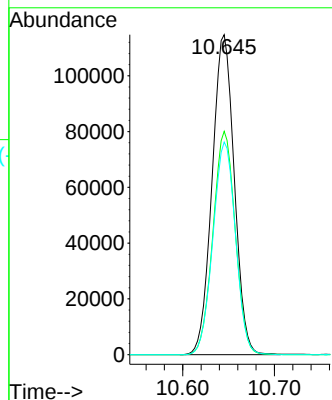
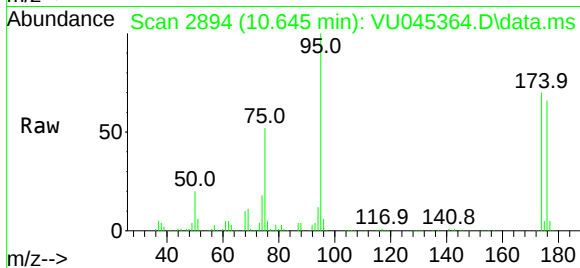




#62
4-Bromofluorobenzene
Concen: 42.827 ug/l
RT: 10.645 min Scan# 2894
Delta R.T. 0.010 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

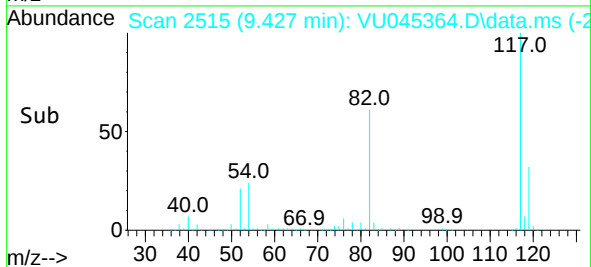
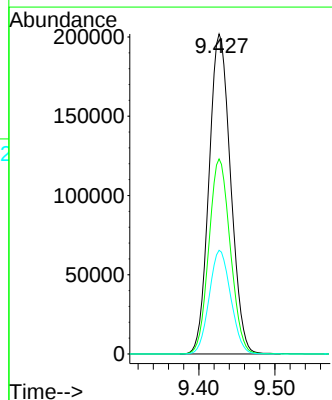
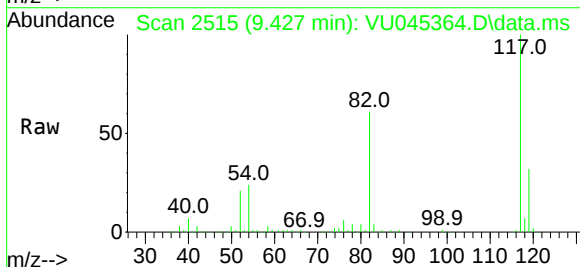
Instrument :
MSVOA_U
ClientSampled :

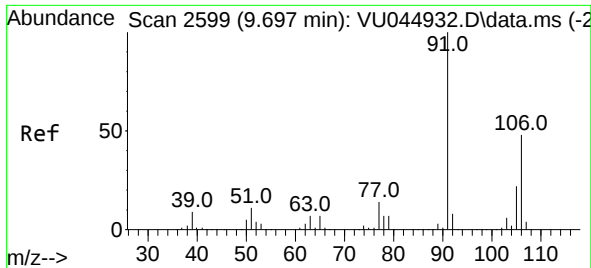
Tgt Ion: 95 Resp: 192696
Ion Ratio Lower Upper
95 100
174 70.1 0.0 146.6
176 67.6 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.427 min Scan# 2515
Delta R.T. 0.007 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 117 Resp: 398296
Ion Ratio Lower Upper
117 100
82 61.0 47.8 71.8
119 32.4 25.8 38.6

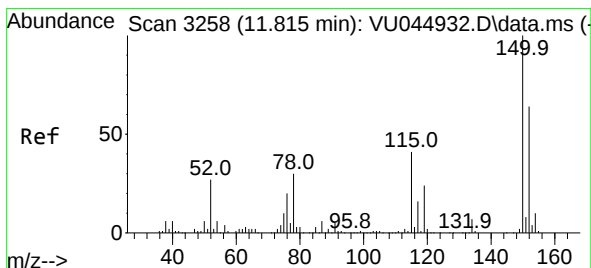
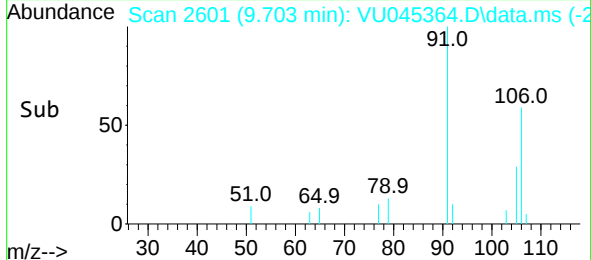
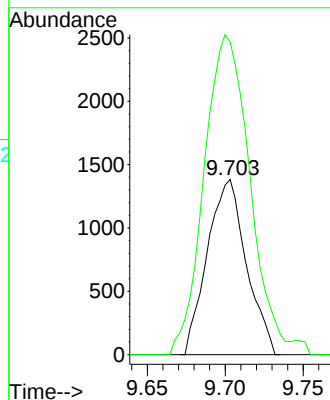
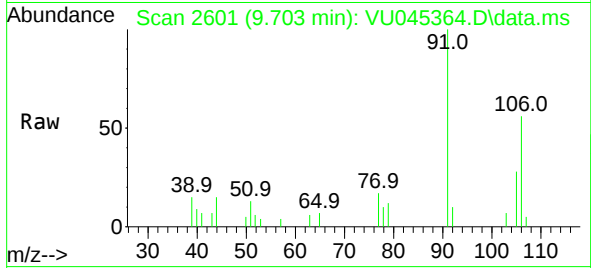




#68
m/p-Xylenes
Concen: 0.403 ug/l
RT: 9.703 min Scan# 2601
Delta R.T. 0.006 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

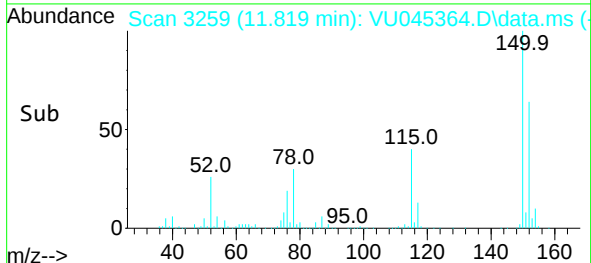
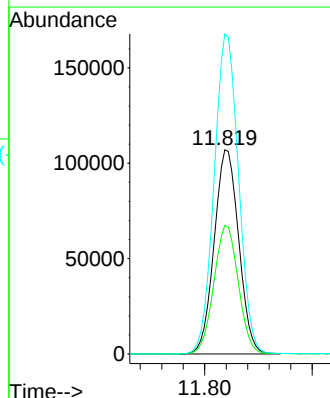
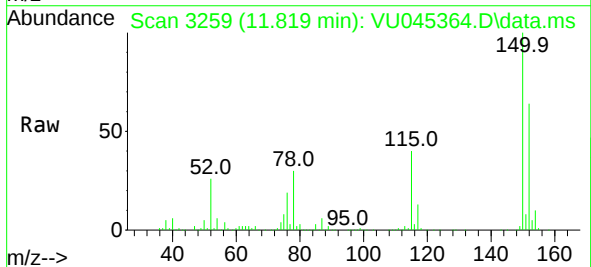
Instrument :
MSVOA_U
ClientSampled :

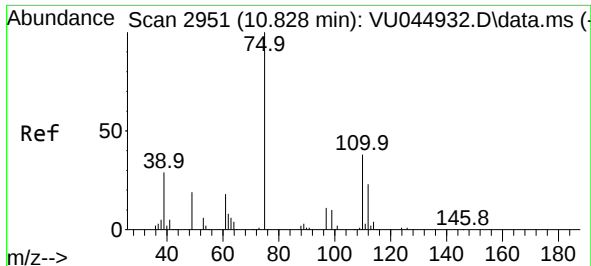
Tgt Ion:106 Resp: 2403
Ion Ratio Lower Upper
106 100
91 213.9 164.2 246.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.819 min Scan# 3259
Delta R.T. 0.004 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion:152 Resp: 169840
Ion Ratio Lower Upper
152 100
115 63.0 43.5 130.7
150 156.0 0.0 350.0

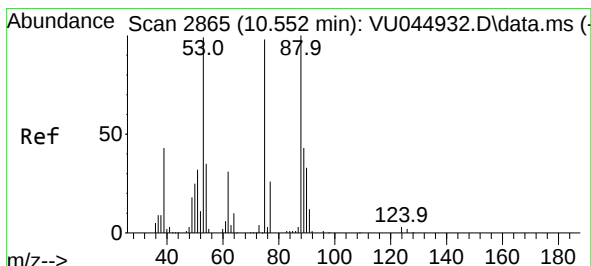
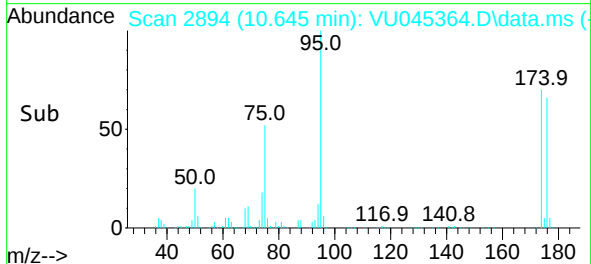
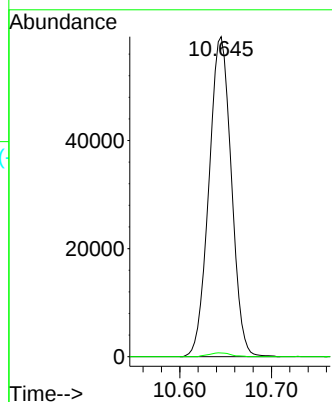
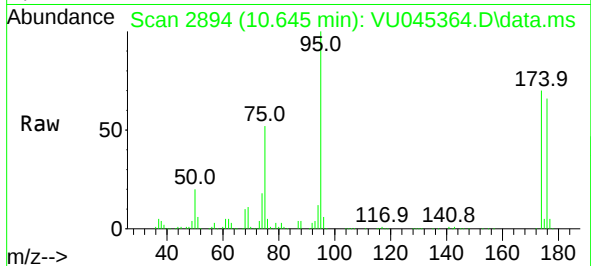




#76
1,2,3-Trichloropropane
Concen: 20.280 ug/l
RT: 10.645 min Scan# 2894
Delta R.T. -0.183 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

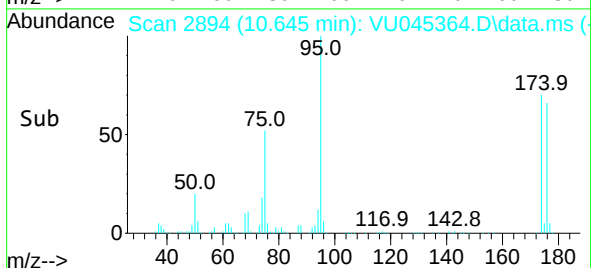
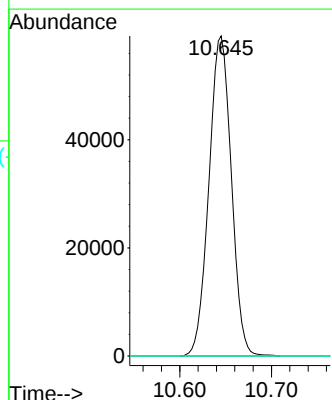
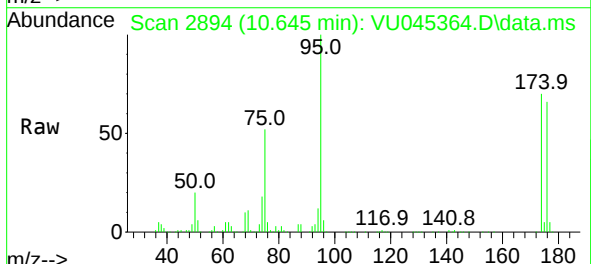
Instrument :
MSVOA_U
ClientSampled :

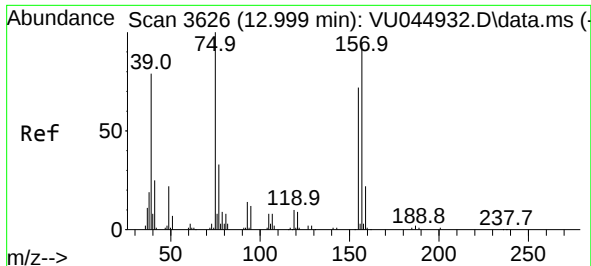
Tgt Ion: 75 Resp: 100467
Ion Ratio Lower Upper
75 100
77 1.2 17.9 53.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.281 ug/l
RT: 10.645 min Scan# 2894
Delta R.T. 0.093 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 75 Resp: 100467
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#

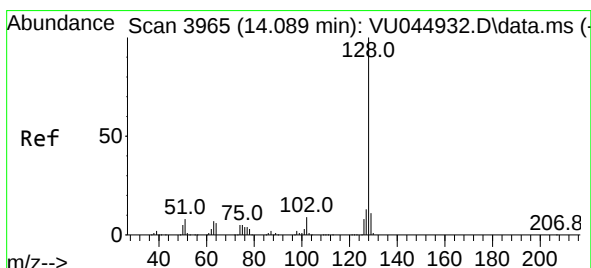
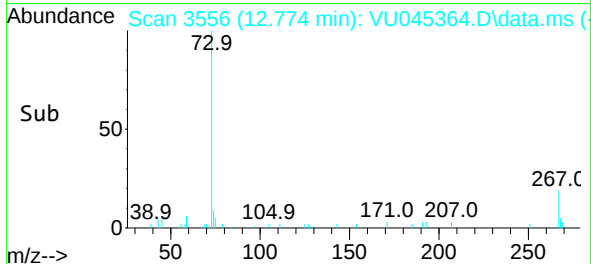
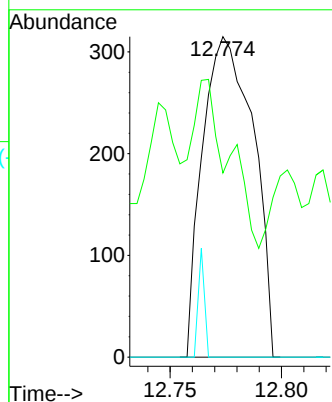
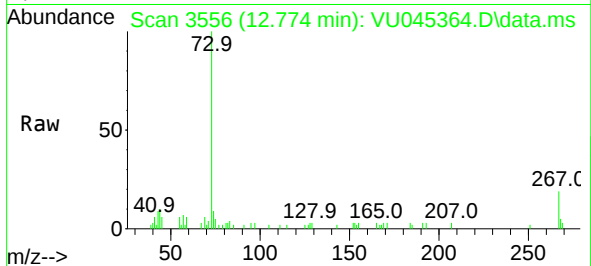




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.386 ug/l
RT: 12.774 min Scan# 3556
Delta R.T. -0.225 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 75 Resp: 498
Ion Ratio Lower Upper
75 100
155 35.3 36.9 110.6#
157 4.2 47.8 143.3#



#95
Naphthalene
Concen: 0.224 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU045364.D
Acq: 22 Oct 2021 15:00

Tgt Ion: 128 Resp: 2805
Ion Ratio Lower Upper
128 100
127 8.4 10.4 15.6#
129 4.5 8.6 13.0#

