

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072021\
 Data File : VU044371.D
 Acq On : 20 Jul 2021 13:26
 Operator : SY/MD
 Sample : M3035-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 21 01:25:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071621DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 16 14:36:39 2021
 Response via : Initial Calibration

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

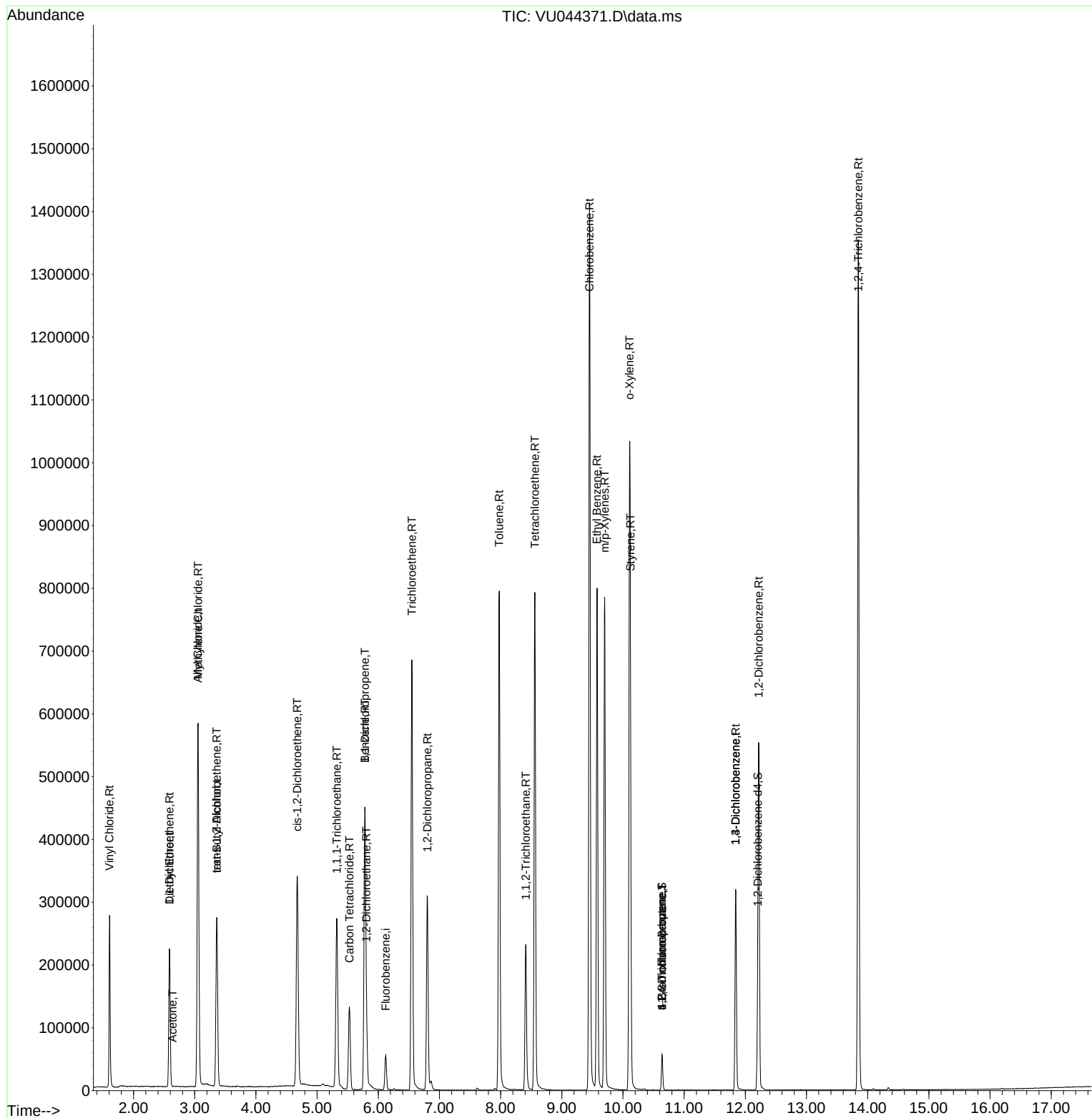
Internal Standards						
1) Fluorobenzene	6.122	96	49907	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	20175	1.002	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.000%	
68) 1,2-Dichlorobenzene-d4	12.202	152	19533	0.995	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.000%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.607	62	195609	10.228	ug/l	98
9) 1,1-Dichloroethene	2.588	96	75332	5.911	ug/l	95
11) Allyl Chloride	3.051	41	10886	0.519	ug/l #	11
13) Acetone	2.639	43	299	0.205	ug/l #	44
15) Methylene Chloride	3.054	84	279058	15.428	ug/l	93
16) trans-1,2-Dichloroethene	3.360	96	112097	7.885	ug/l	99
22) cis-1,2-Dichloroethene	4.675	96	175679	11.308	ug/l	84
23) Diethyl Ether	2.588	59	4324	0.404	ug/l #	14
24) tert-Butyl Alcohol	3.360	59	4824	7.602	ug/l #	74
28) 1,1,1-Trichloroethane	5.321	97	193525	9.056	ug/l	98
29) 1,1-Dichloropropene	5.781	75	7264	0.358	ug/l #	1
30) Carbon Tetrachloride	5.527	117	88767	4.982	ug/l	98
35) Benzene	5.781	78	428474	7.261	ug/l	99
36) 1,2-Dichloroethane	5.806	62	86148	5.087	ug/l	97
37) Trichloroethene	6.549	130	235929	15.908	ug/l	93
38) 1,2-Dichloropropane	6.803	63	125156	8.013	ug/l	99
46) t-1,4-Dichloro-2-butene	10.639	75	9836	2.206	ug/l #	22
49) Toluene	7.977	92	351340	9.466	ug/l	99
52) 1,1,2-Trichloroethane	8.411	97	77516	6.792	ug/l	97
58) Tetrachloroethene	8.559	164	180765	14.359	ug/l	99
59) Chlorobenzene	9.453	112	775034	19.749	ug/l	100
63) Ethyl Benzene	9.575	91	582923	8.310	ug/l	99
64) m/p-Xylenes	9.700	106	223646	8.344	ug/l	98
65) o-Xylene	10.109	106	223126	8.626	ug/l	100
66) Styrene	10.121	104	233226	5.233	ug/l	95
71) 1,2,3-Trichloropropane	10.639	75	9836	0.762	ug/l #	35
82) 1,3-Dichlorobenzene	11.842	146	131378	4.129	ug/l	99
83) 1,4-Dichlorobenzene	11.842	146	131378	4.088	ug/l	99
85) 1,2-Dichlorobenzene	12.218	146	218069	7.075	ug/l	100
87) 1,2,4-Trichlorobenzene	13.848	180	413501	18.961	ug/l	99

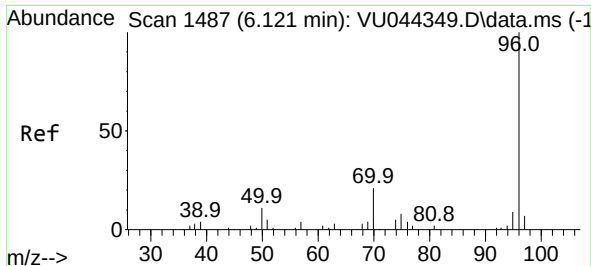
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071621DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Jul 16 14:36:39 2021
Response via : Initial Calibration

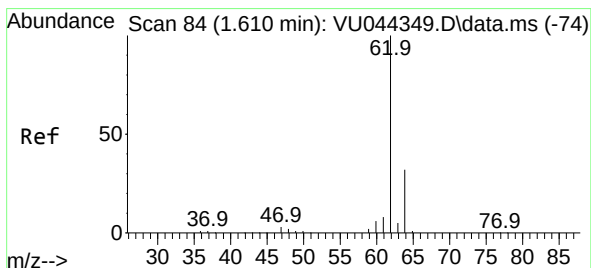
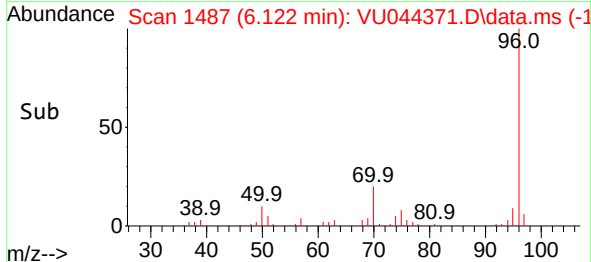
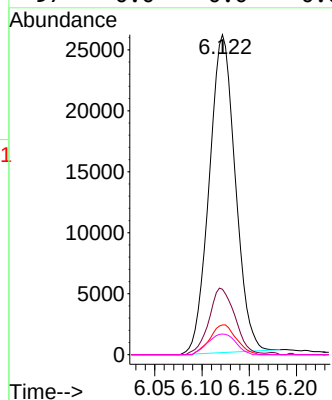
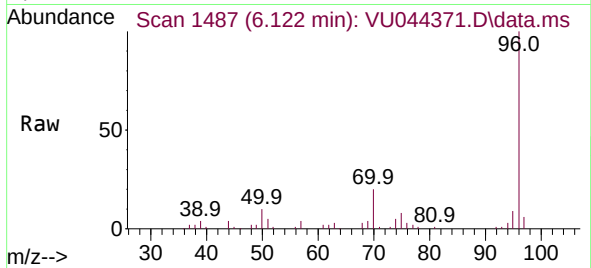




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.122 min Scan# 1487
Delta R.T. 0.001 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

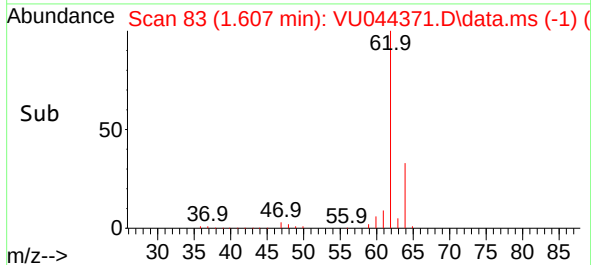
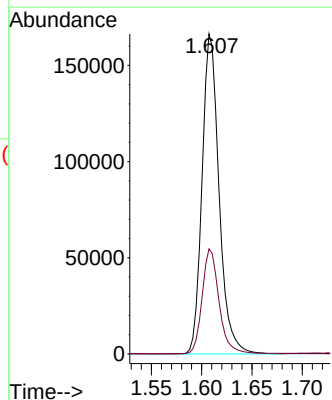
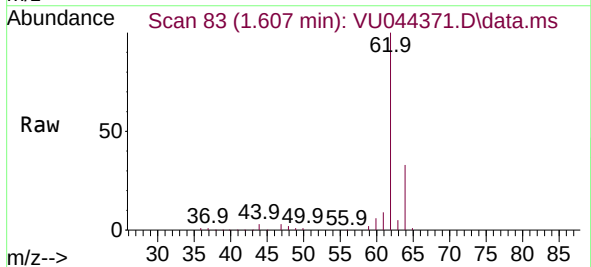
Instrument :
MSVOA_U
ClientSampleId :

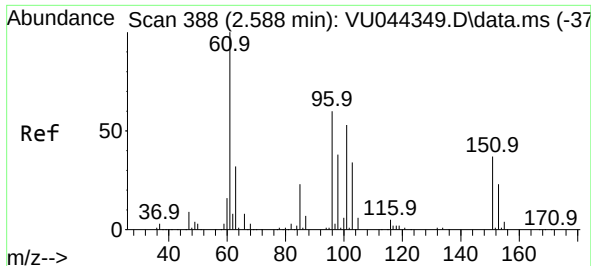
Tgt Ion: 96	Resp: 49907
Ion Ratio	Lower Upper
96 100	
70 20.4	16.2 24.2
95 0.0	7.3 10.9#
97 0.0	0.0 0.0



#4
Vinyl Chloride
Concen: 10.228 ug/l
RT: 1.607 min Scan# 83
Delta R.T. -0.003 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 62	Resp: 195609
Ion Ratio	Lower Upper
62 100	
64 32.7	25.1 37.7

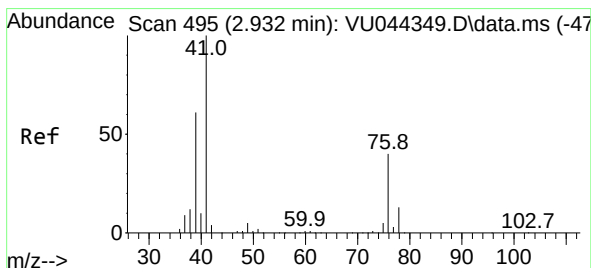
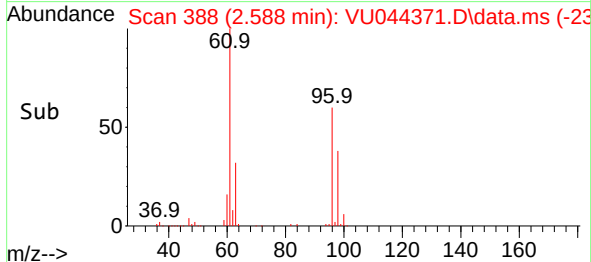
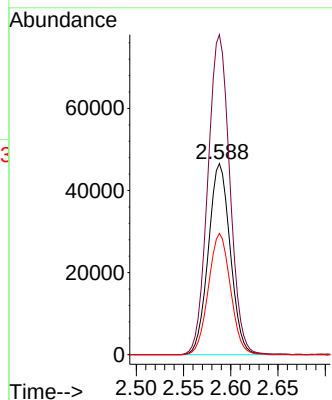
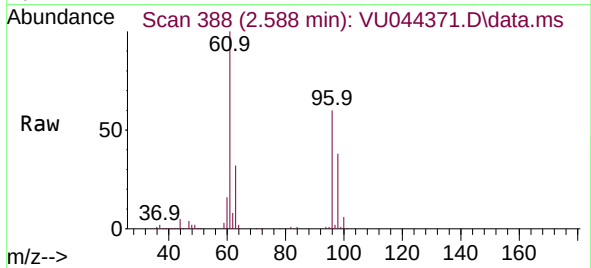




#9
1,1-Dichloroethene
Concen: 5.911 ug/l
RT: 2.588 min Scan# 388
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

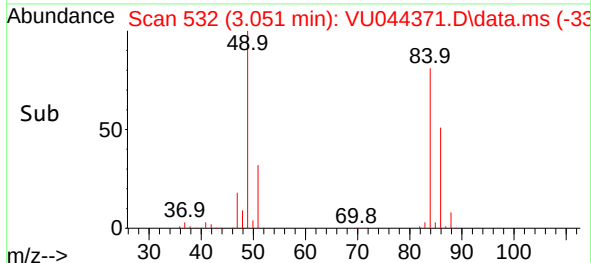
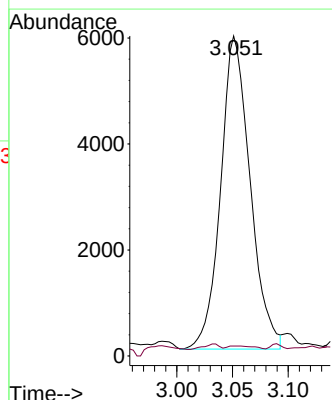
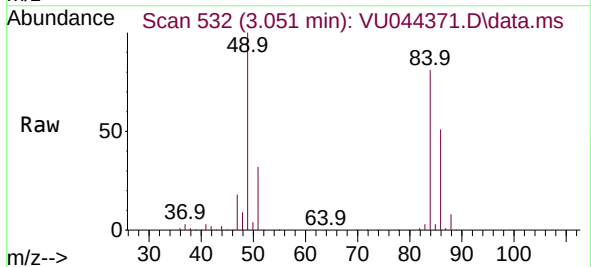
Instrument :
MSVOA_U
ClientSampleId :

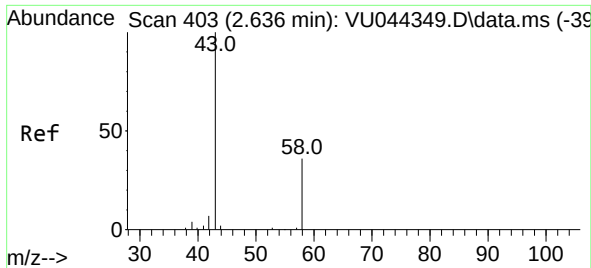
Tgt Ion: 96 Resp: 75332
Ion Ratio Lower Upper
96 100
61 167.4 0.0 528.0
98 63.4 0.0 127.4



#11
Allyl Chloride
Concen: 0.519 ug/l
RT: 3.051 min Scan# 532
Delta R.T. 0.119 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 41 Resp: 10886
Ion Ratio Lower Upper
41 100
39 0.9 62.5 93.7#

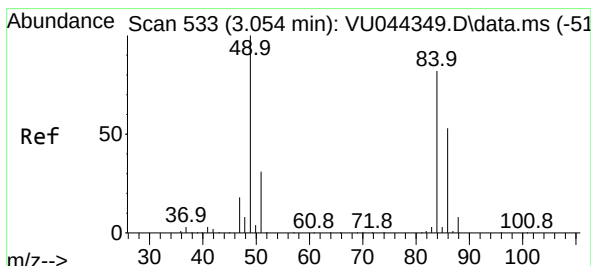
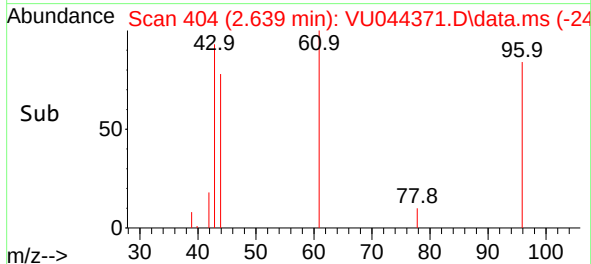
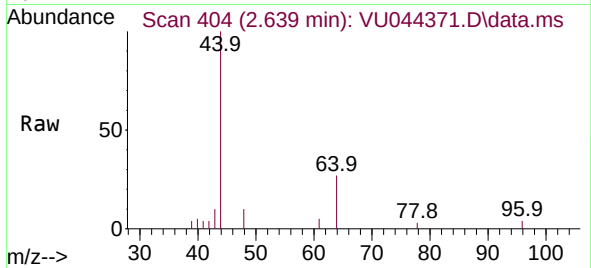




#13
Acetone
Concen: 0.205 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.004 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

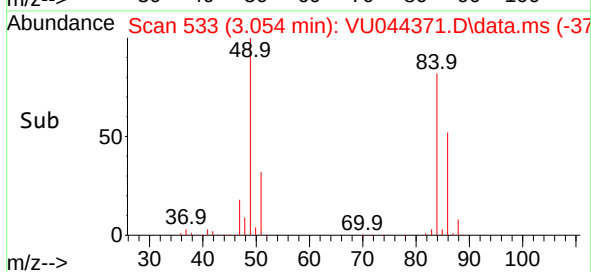
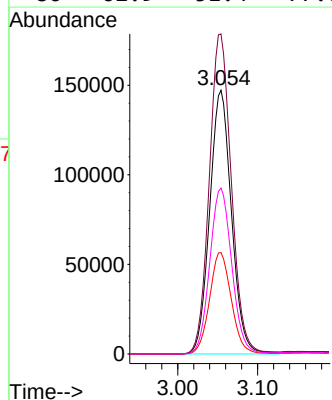
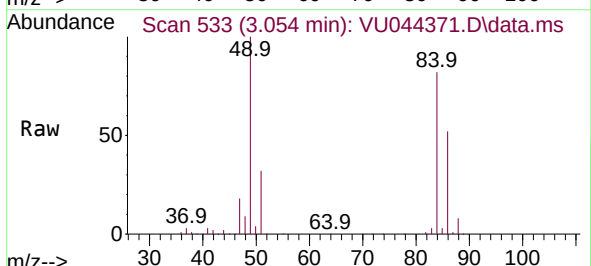
Instrument :
MSVOA_U
ClientSampleId :

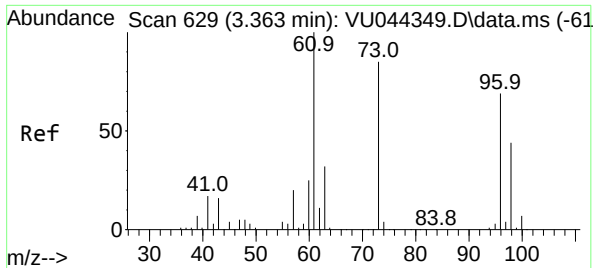
Tgt Ion: 43 Resp: 299
Ion Ratio Lower Upper
43 100
58 0.0 24.3 36.5#



#15
Methylene Chloride
Concen: 15.428 ug/l
RT: 3.054 min Scan# 533
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 84 Resp: 279058
Ion Ratio Lower Upper
84 100
49 121.3 106.3 159.5
51 38.5 0.0 81.8
86 62.9 51.4 77.0

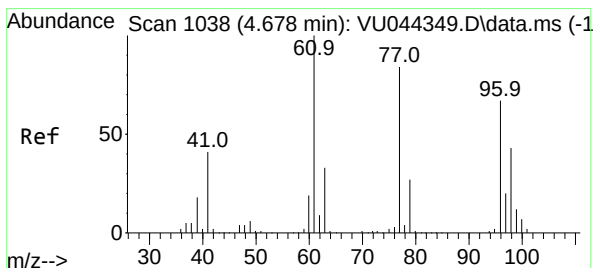
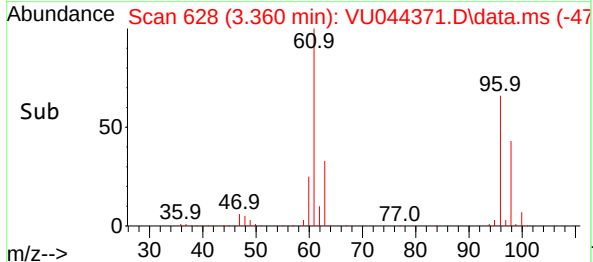
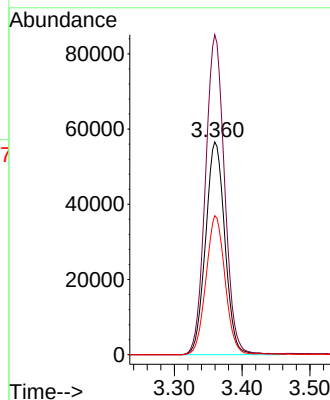
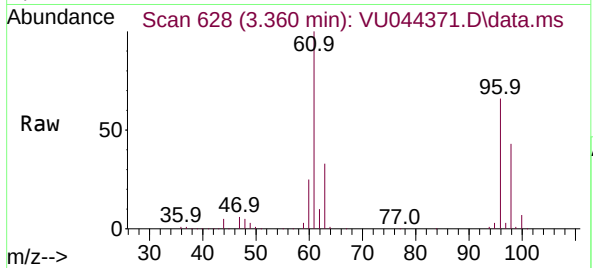




#16
trans-1,2-Dichloroethene
Concen: 7.885 ug/l
RT: 3.360 min Scan# 628
Delta R.T. -0.003 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

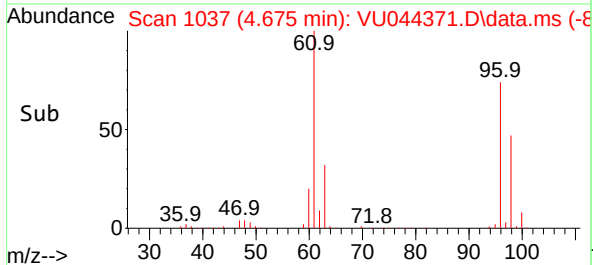
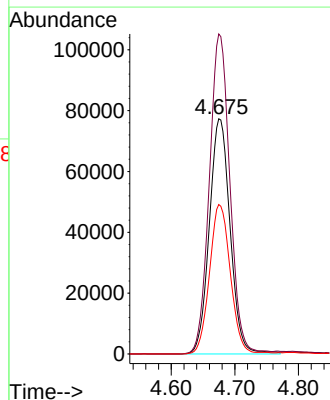
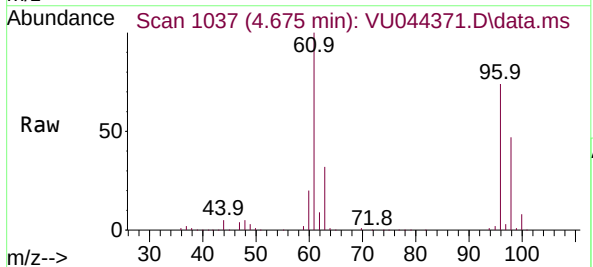
Instrument :
MSVOA_U
ClientSampleId :

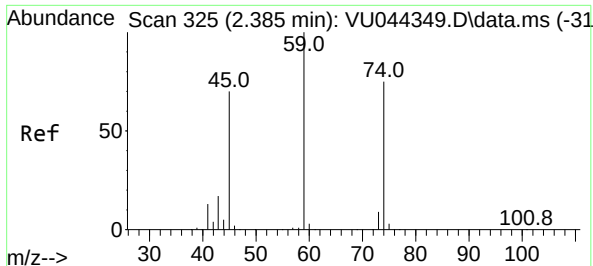
Tgt Ion: 96 Resp: 112097
Ion Ratio Lower Upper
96 100
61 150.4 119.3 178.9
98 65.3 50.8 76.2



#22
cis-1,2-Dichloroethene
Concen: 11.308 ug/l
RT: 4.675 min Scan# 1037
Delta R.T. -0.003 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 96 Resp: 175679
Ion Ratio Lower Upper
96 100
61 134.4 0.0 407.7
98 63.4 32.5 97.4

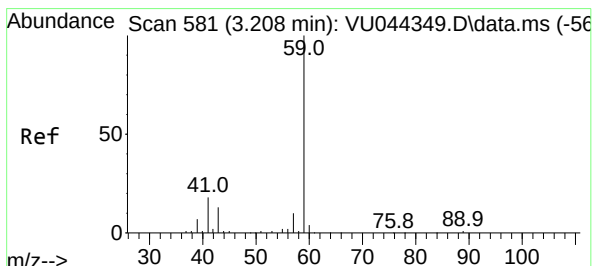
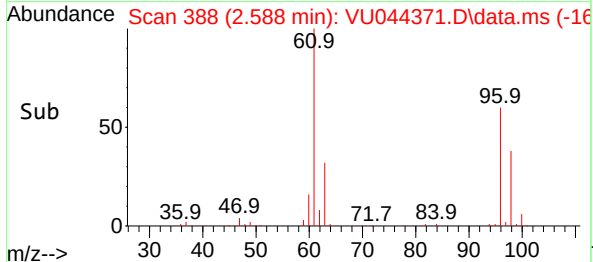
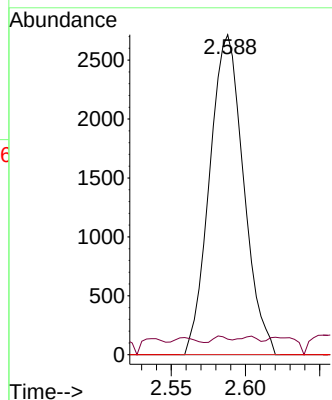
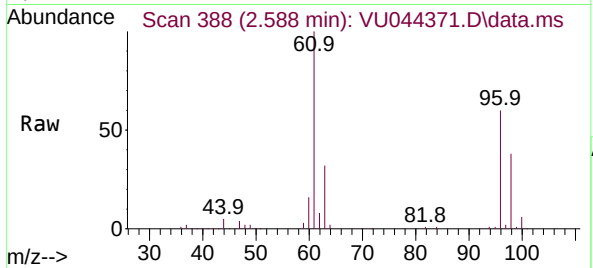




#23
Diethyl Ether
Concen: 0.404 ug/l
RT: 2.588 min Scan# 388
Delta R.T. 0.203 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

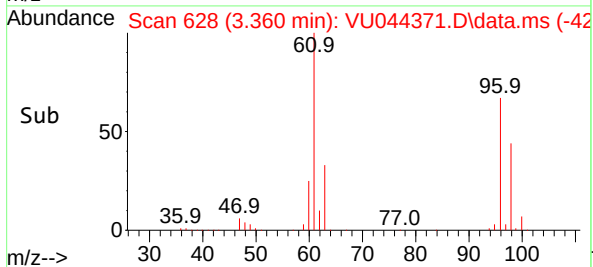
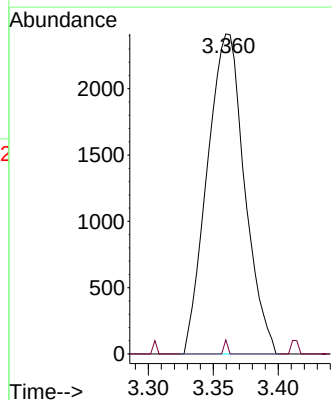
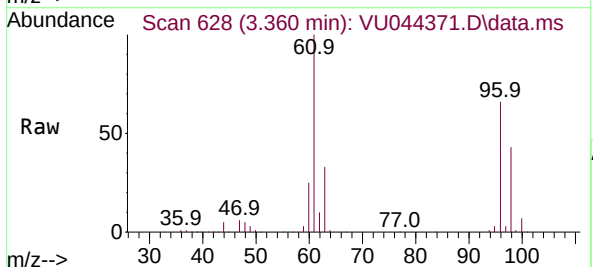
Instrument :
MSVOA_U
ClientSampled :

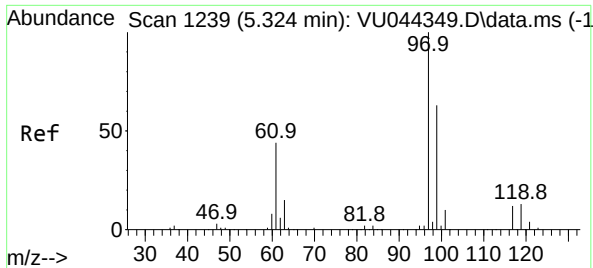
Tgt Ion: 59 Resp: 4324
Ion Ratio Lower Upper
59 100
45 0.9 55.7 83.5#
74 0.0 59.7 89.5#



#24
tert-Butyl Alcohol
Concen: 7.602 ug/l
RT: 3.360 min Scan# 628
Delta R.T. 0.151 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 59 Resp: 4824
Ion Ratio Lower Upper
59 100
57 0.4 8.2 12.4#



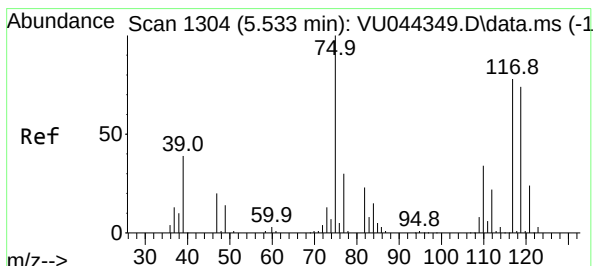
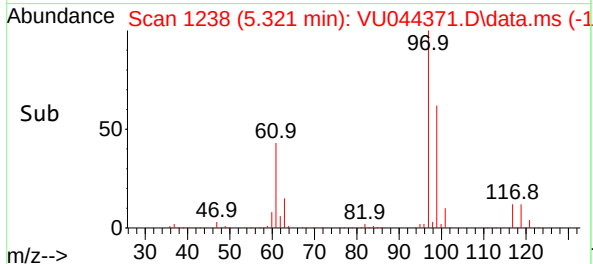
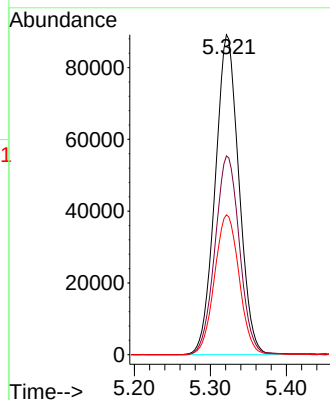
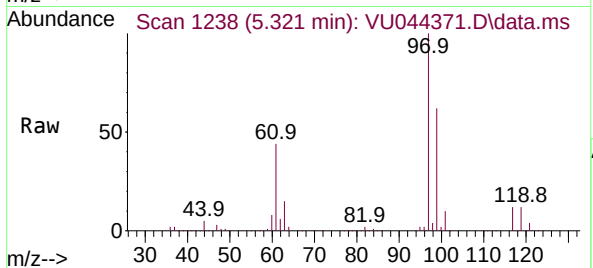


#28

1,1,1-Trichloroethane
Concen: 9.056 ug/l
RT: 5.321 min Scan# 1238
Delta R.T. -0.003 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Instrument :
MSVOA_U
ClientSampleId :

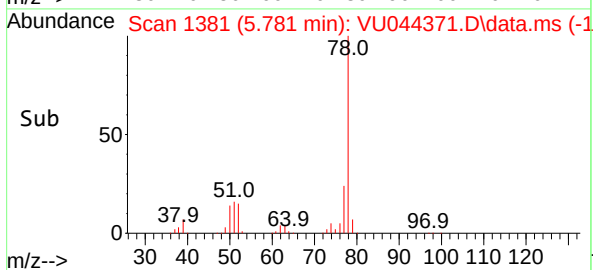
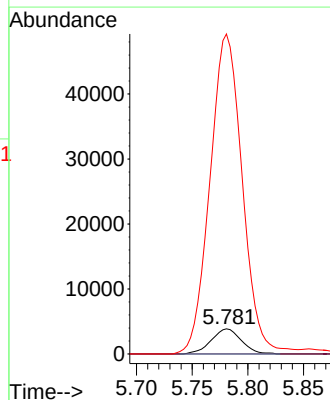
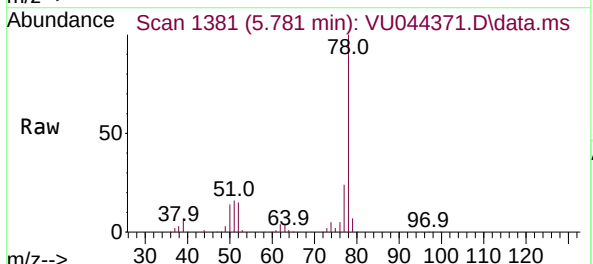
Tgt Ion: 97 Resp: 193525
Ion Ratio Lower Upper
97 100
99 64.4 32.0 96.2
61 45.5 23.8 71.5

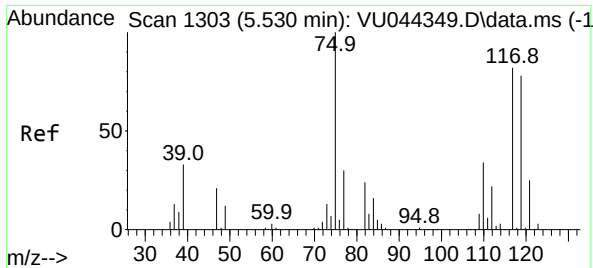


#29

1,1-Dichloropropene
Concen: 0.358 ug/l
RT: 5.781 min Scan# 1381
Delta R.T. 0.248 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 75 Resp: 7264
Ion Ratio Lower Upper
75 100
110 0.0 17.3 51.9#
77 1370.2 24.6 37.0#

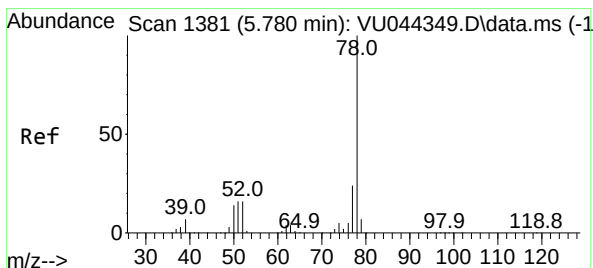
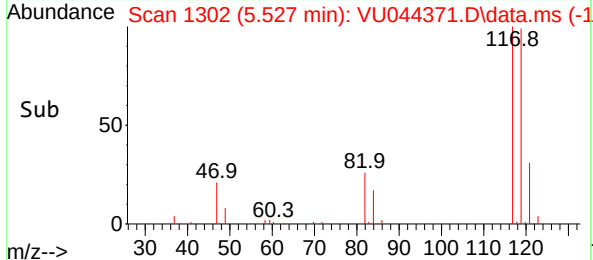
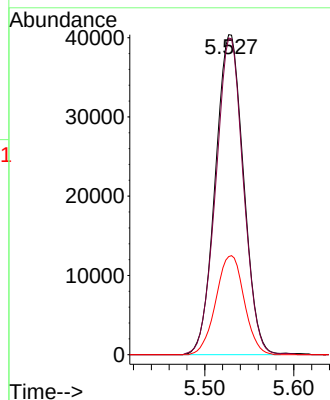
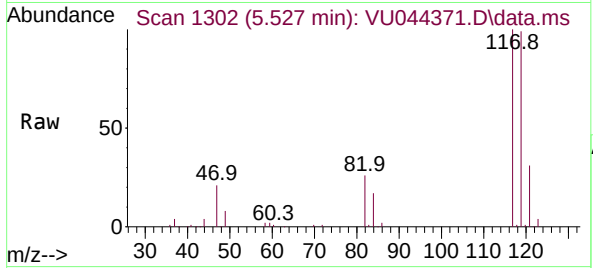




#30
Carbon Tetrachloride
Concen: 4.982 ug/l
RT: 5.527 min Scan# 1302
Delta R.T. -0.003 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

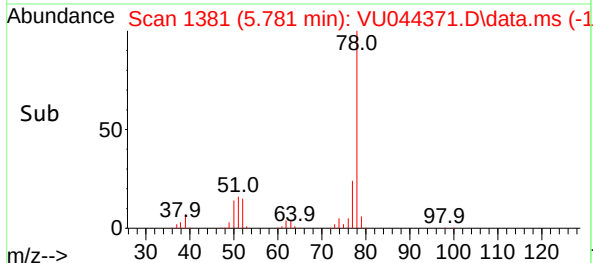
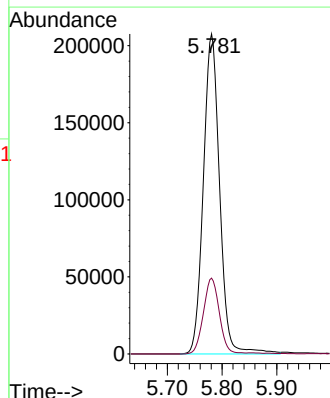
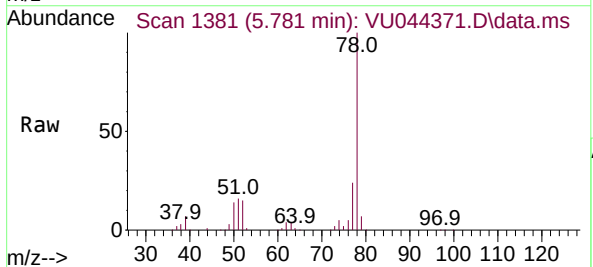
Instrument :
MSVOA_U
ClientSampleId :

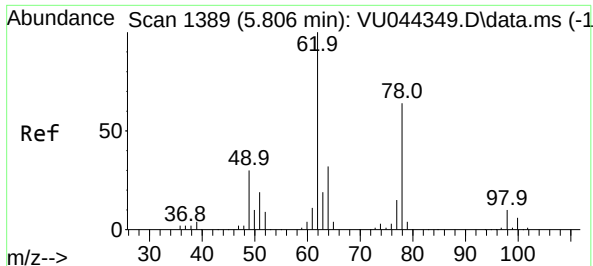
Tgt Ion:117 Resp: 88767
Ion Ratio Lower Upper
117 100
119 99.0 77.0 115.6
121 30.7 24.2 36.4



#35
Benzene
Concen: 7.261 ug/l
RT: 5.781 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 78 Resp: 428474
Ion Ratio Lower Upper
78 100
77 23.7 19.4 29.0





#36

1,2-Dichloroethane

Concen: 5.087 ug/l

RT: 5.806 min Scan# 1389

Delta R.T. 0.000 min

Lab File: VU044371.D

Acq: 20 Jul 2021 13:26

Tgt Ion: 62 Resp: 86148

Ion Ratio Lower Upper

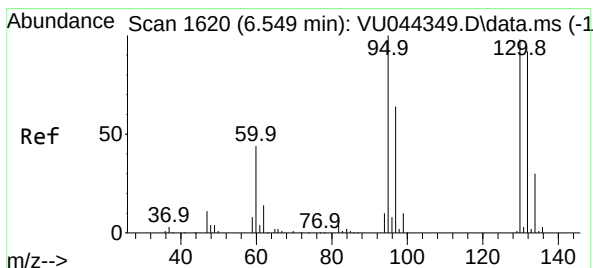
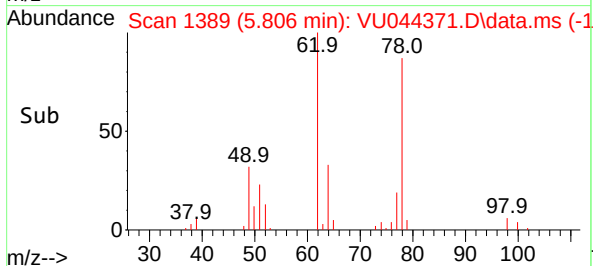
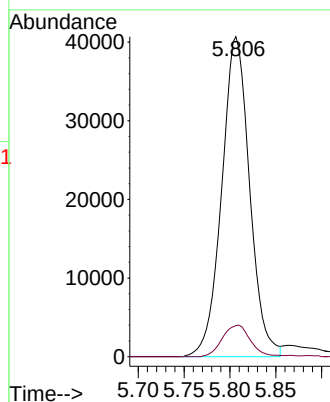
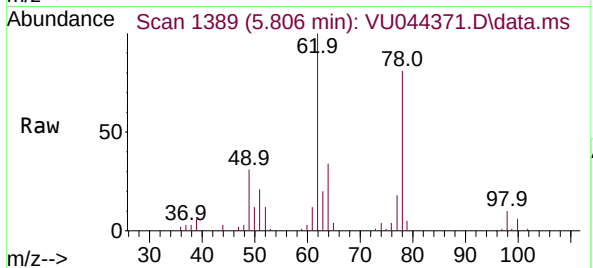
62 100

98 10.0 7.0 10.6

Instrument :

MSVOA_U

ClientSampled :



#37

Trichloroethene

Concen: 15.908 ug/l

RT: 6.549 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VU044371.D

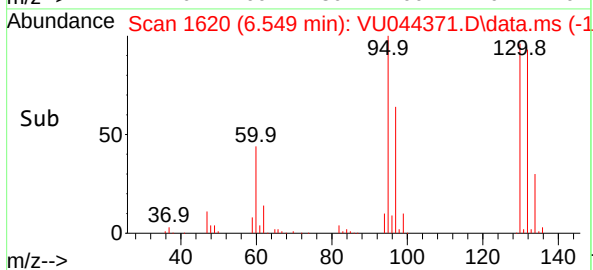
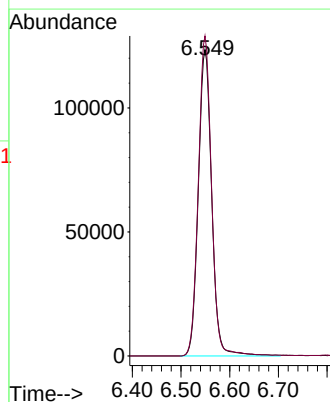
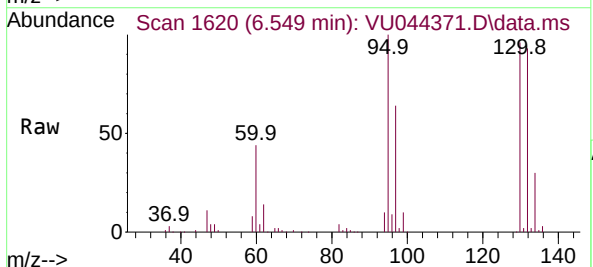
Acq: 20 Jul 2021 13:26

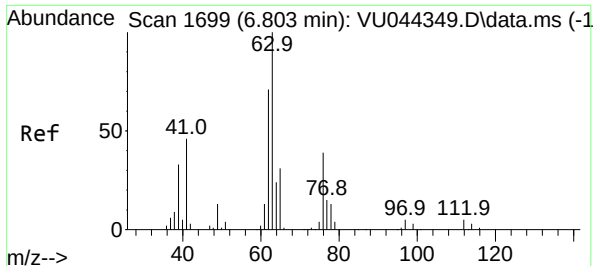
Tgt Ion:130 Resp: 235929

Ion Ratio Lower Upper

130 100

95 104.4 77.8 116.6

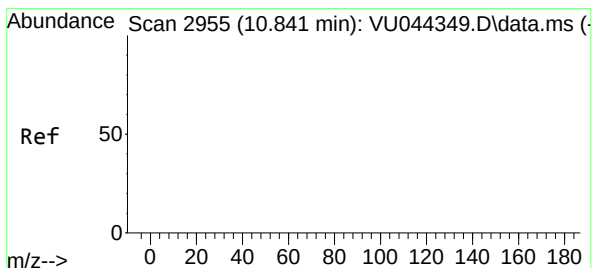
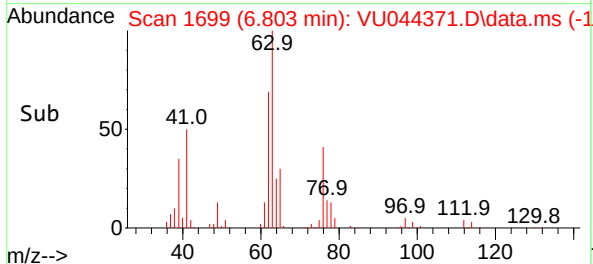
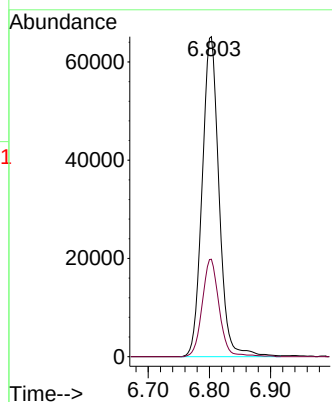
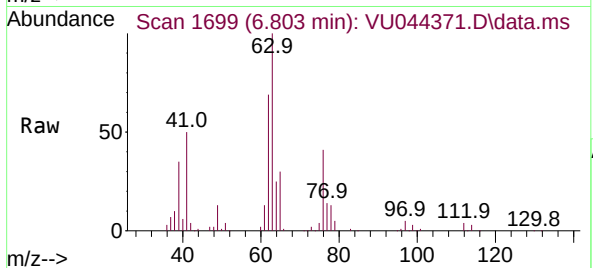




#38
1,2-Dichloropropane
Concen: 8.013 ug/l
RT: 6.803 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

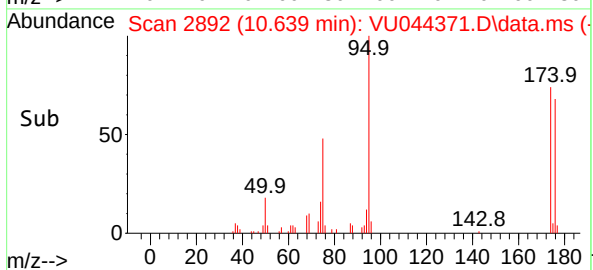
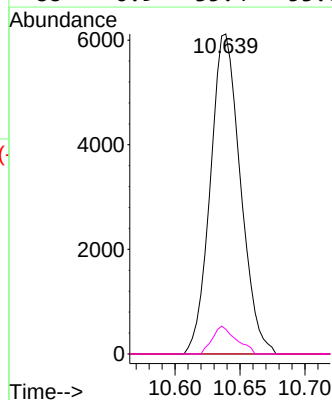
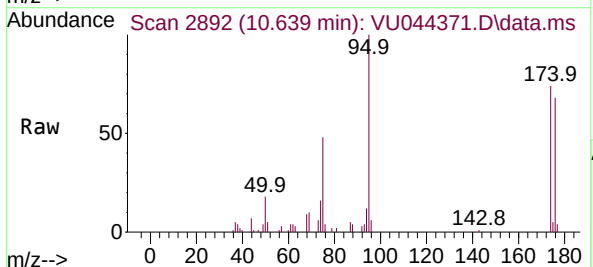
Instrument :
MSVOA_U
ClientSampled :

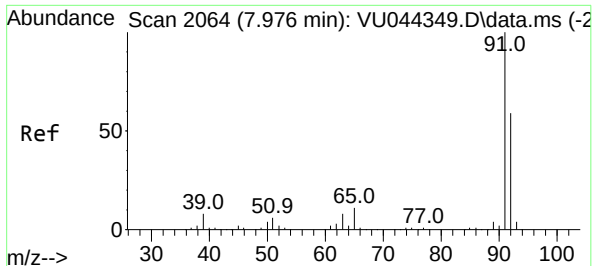
Tgt Ion: 63 Resp: 125156
Ion Ratio Lower Upper
63 100
65 30.4 24.7 37.1



#46
t-1,4-Dichloro-2-butene
Concen: 2.206 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.202 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion: 75 Resp: 9836
Ion Ratio Lower Upper
75 100
53 0.0 63.7 95.5#
89 0.0 44.6 67.0#
88 6.9 35.4 53.0#





#49

Toluene

Concen: 9.466 ug/l

RT: 7.977 min Scan# 2064

Delta R.T. 0.000 min

Lab File: VU044371.D

Acq: 20 Jul 2021 13:26

Tgt Ion: 92 Resp: 351340

Ion Ratio Lower Upper

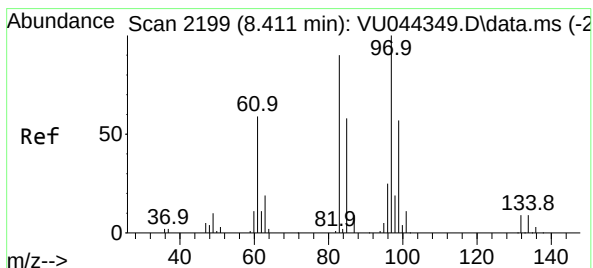
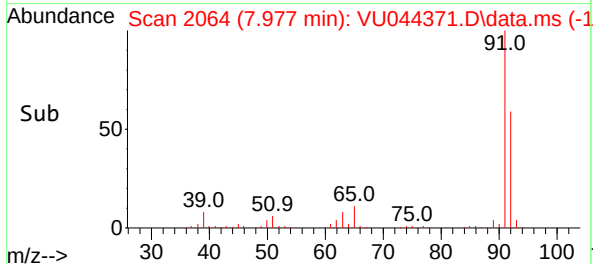
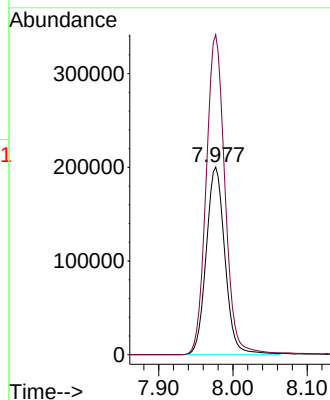
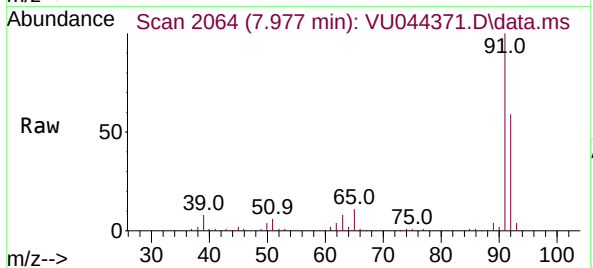
92 100

91 172.1 137.0 205.6

Instrument :

MSVOA_U

ClientSampleId :



#52

1,1,2-Trichloroethane

Concen: 6.792 ug/l

RT: 8.411 min Scan# 2199

Delta R.T. 0.000 min

Lab File: VU044371.D

Acq: 20 Jul 2021 13:26

Tgt Ion: 97 Resp: 77516

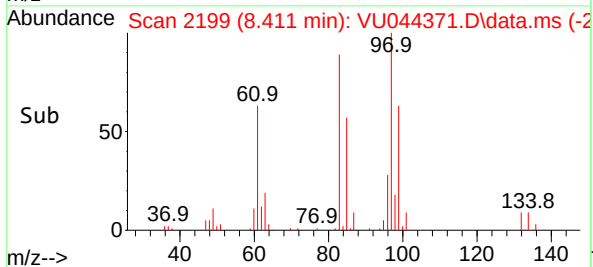
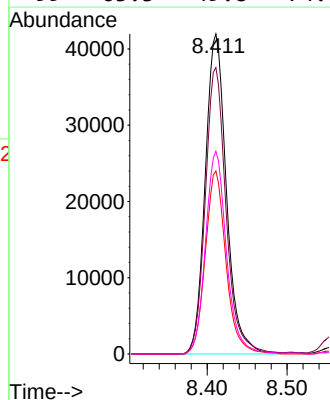
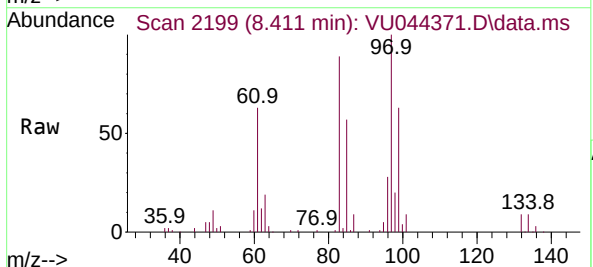
Ion Ratio Lower Upper

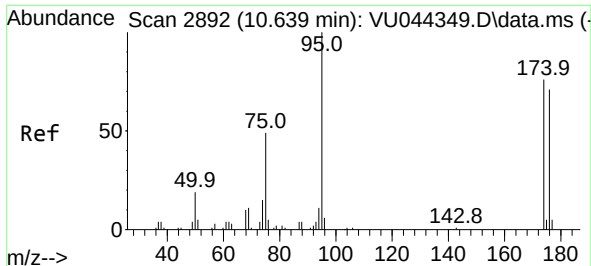
97 100

83 89.5 68.2 102.2

85 57.2 44.0 66.0

99 63.3 49.8 74.8

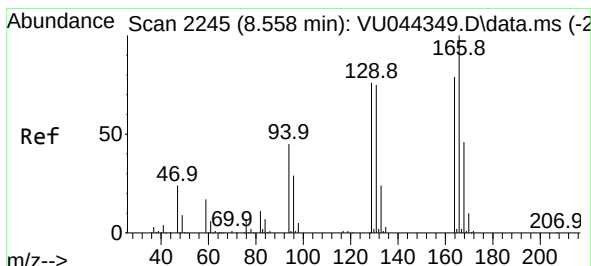
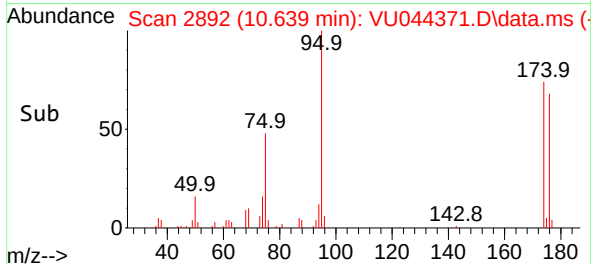
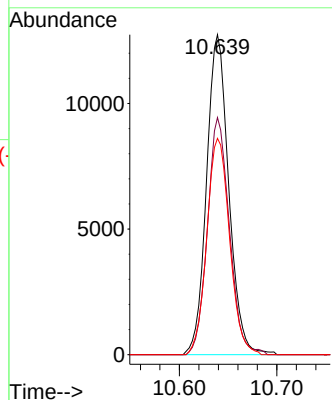
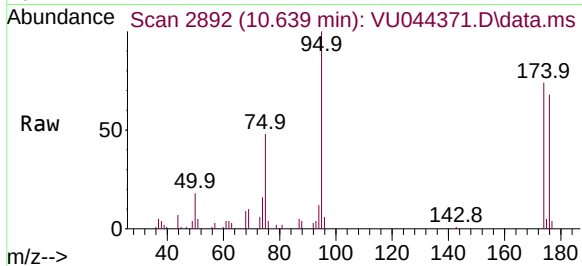




#57
 4-Bromofluorobenzene
 Concen: 1.002 ug/l
 RT: 10.639 min Scan# 2892
 Delta R.T. 0.000 min
 Lab File: VU044371.D
 Acq: 20 Jul 2021 13:26

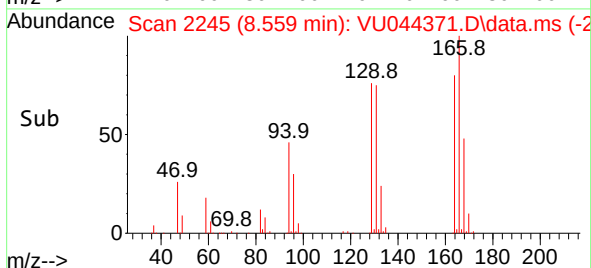
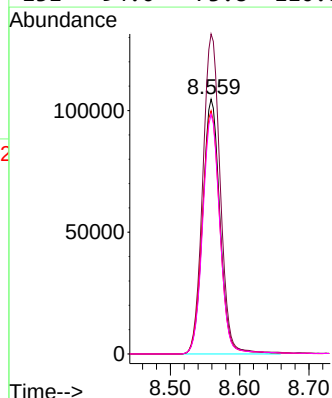
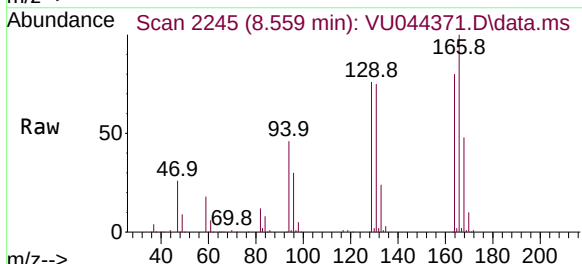
Instrument :
 MSVOA_U
 ClientSampleId :

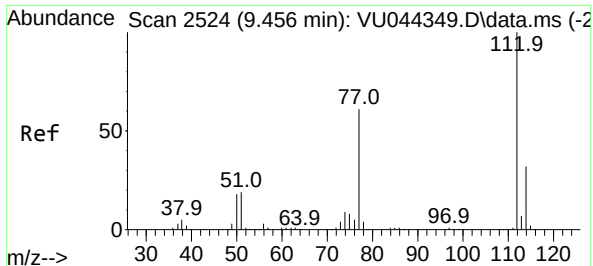
Tgt Ion:	95	Resp:	20175
Ion Ratio	Lower	Upper	
95	100		
174	73.2	62.2	93.2
176	69.4	60.3	90.5



#58
 Tetrachloroethene
 Concen: 14.359 ug/l
 RT: 8.559 min Scan# 2245
 Delta R.T. 0.000 min
 Lab File: VU044371.D
 Acq: 20 Jul 2021 13:26

Tgt Ion:	164	Resp:	180765
Ion Ratio	Lower	Upper	
164	100		
166	125.6	100.2	150.4
129	95.5	76.3	114.5
131	94.0	73.8	110.8





#59

Chlorobenzene

Concen: 19.749 ug/l

RT: 9.453 min Scan# 2523

Delta R.T. -0.003 min

Lab File: VU044371.D

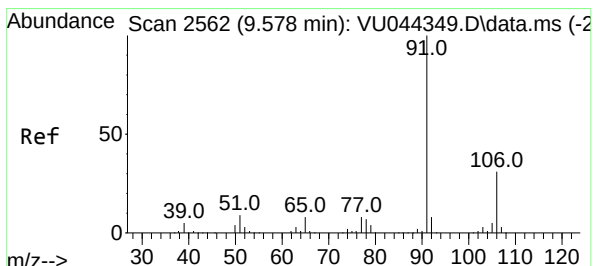
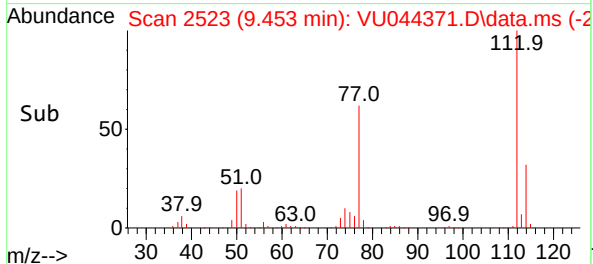
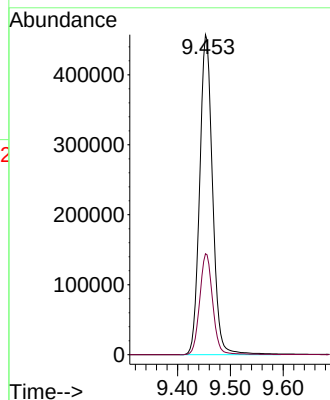
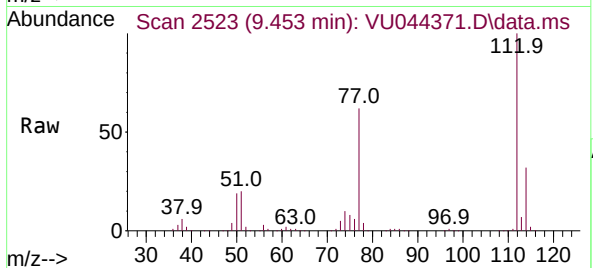
Acq: 20 Jul 2021 13:26

Tgt Ion:112 Resp: 775034

Ion Ratio Lower Upper

112 100

114 31.6 25.0 37.6



#63

Ethyl Benzene

Concen: 8.310 ug/l

RT: 9.575 min Scan# 2561

Delta R.T. -0.003 min

Lab File: VU044371.D

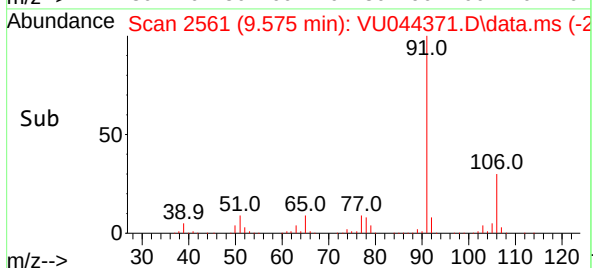
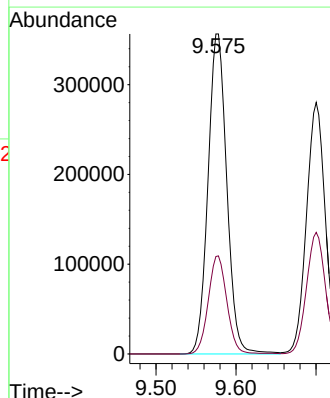
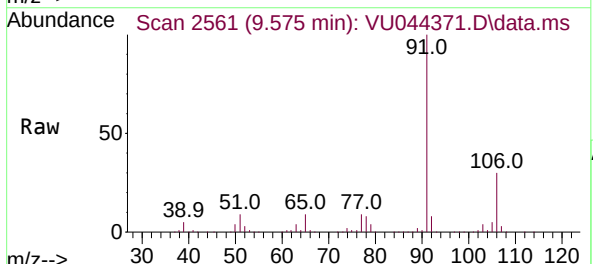
Acq: 20 Jul 2021 13:26

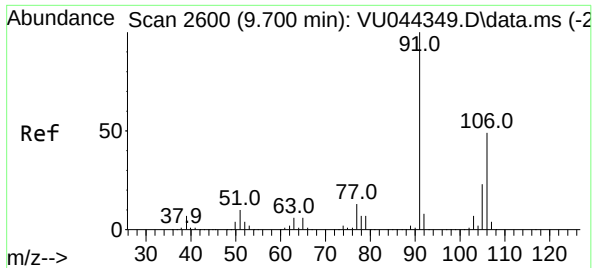
Tgt Ion: 91 Resp: 582923

Ion Ratio Lower Upper

91 100

106 30.4 24.6 37.0

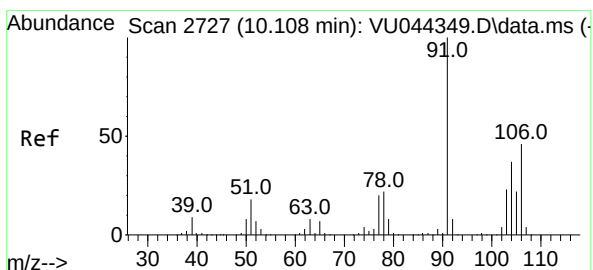
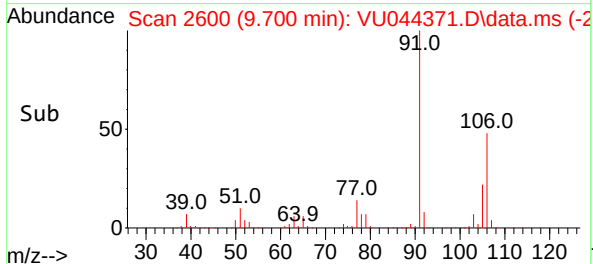
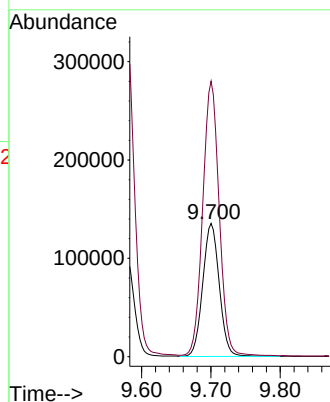
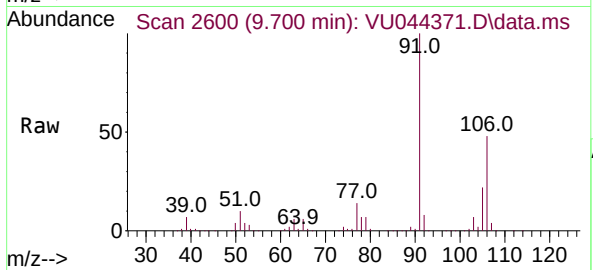




#64
m/p-Xylenes
Concen: 8.344 ug/l
RT: 9.700 min Scan# 2600
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

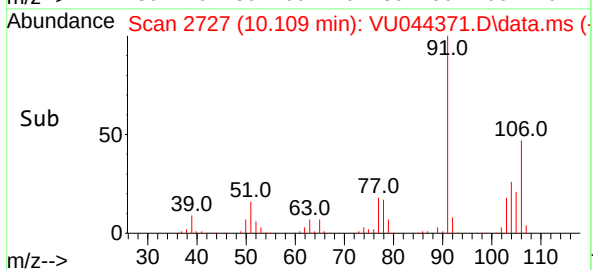
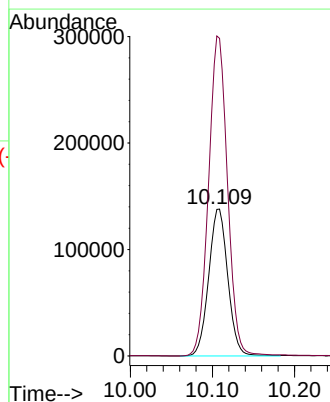
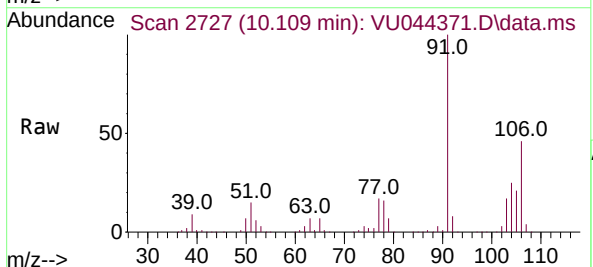
Instrument :
MSVOA_U
ClientSampleId :

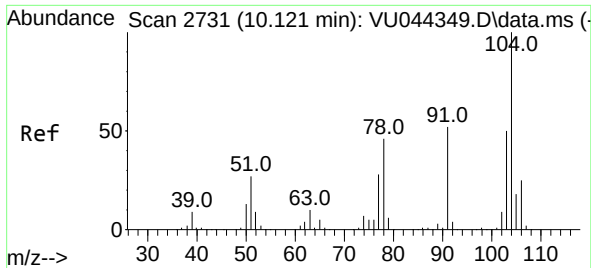
Tgt Ion:106 Resp: 223646
Ion Ratio Lower Upper
106 100
91 205.6 162.5 243.7



#65
o-Xylene
Concen: 8.626 ug/l
RT: 10.109 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion:106 Resp: 223126
Ion Ratio Lower Upper
106 100
91 215.9 108.2 324.6

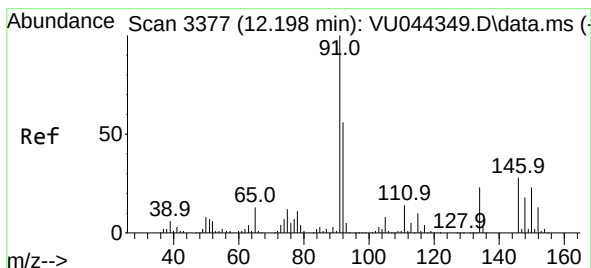
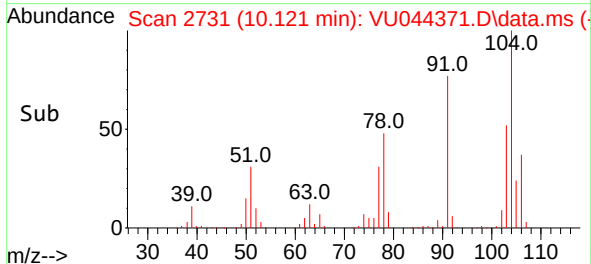
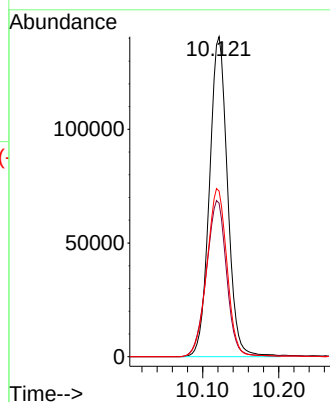
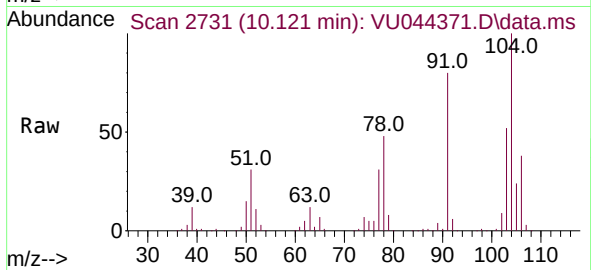




#66
Styrene
Concen: 5.233 ug/l
RT: 10.121 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

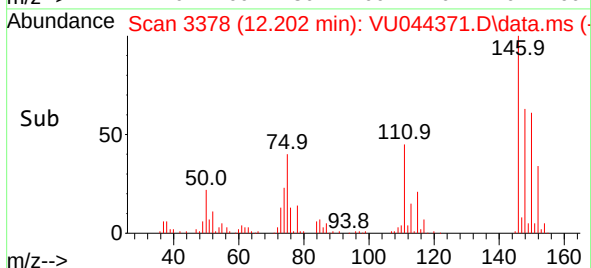
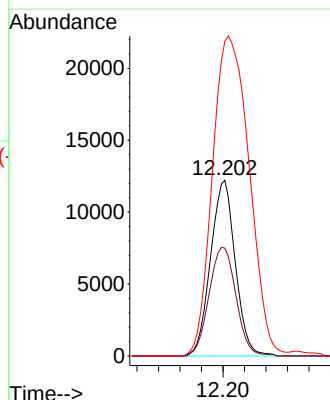
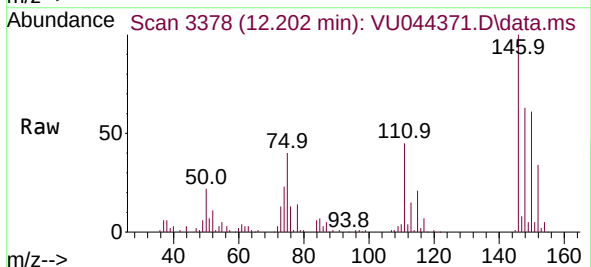
Instrument :
MSVOA_U
ClientSampled :

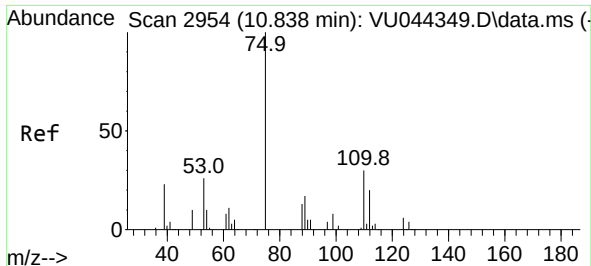
Tgt Ion:104 Resp: 233226
Ion Ratio Lower Upper
104 100
78 54.5 41.6 62.4
103 58.4 43.3 64.9



#68
1,2-Dichlorobenzene-d4
Concen: 0.995 ug/l
RT: 12.202 min Scan# 3378
Delta R.T. 0.004 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

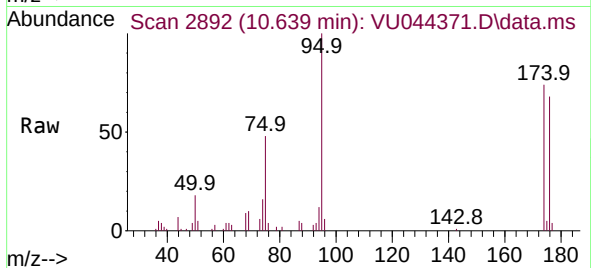
Tgt Ion:152 Resp: 19533
Ion Ratio Lower Upper
152 100
115 67.3 0.0 257.0
150 270.3 0.0 630.2



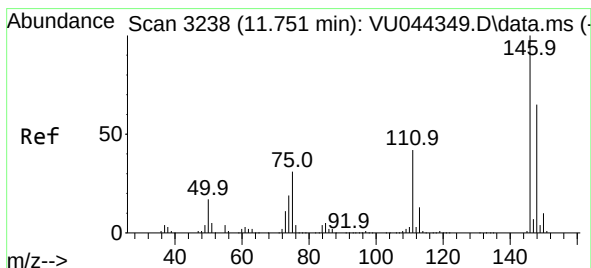
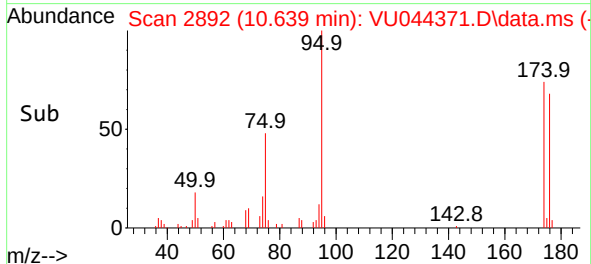
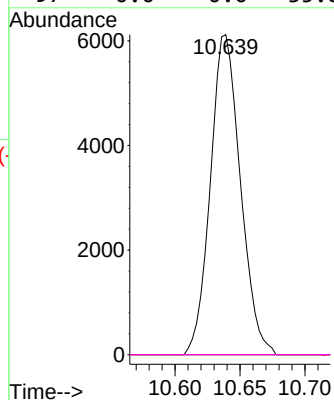


#71
1,2,3-Trichloropropane
Concen: 0.762 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.199 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

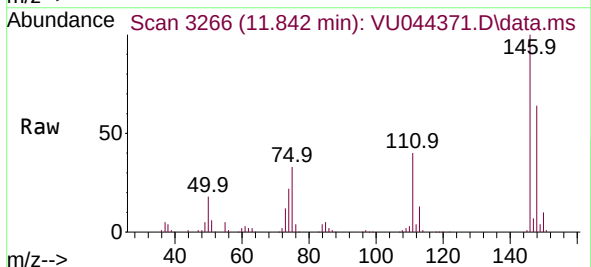
Instrument :
MSVOA_U
ClientSampleId :



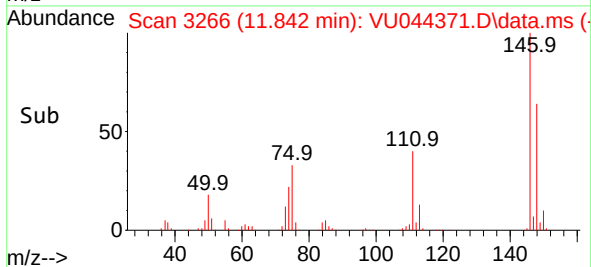
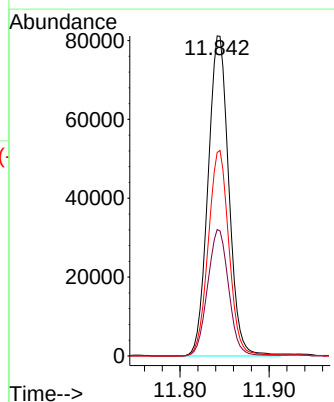
Tgt Ion:	75	Resp:	9836
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	111.4
110	0.0	0.0	74.6
97	0.0	0.0	35.8

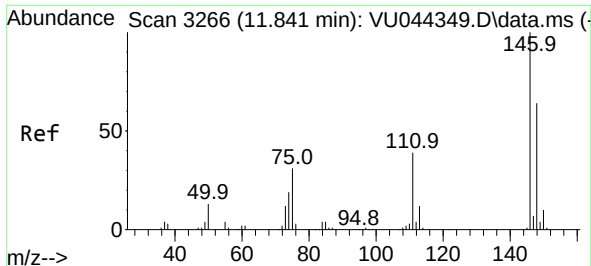


#82
1,3-Dichlorobenzene
Concen: 4.129 ug/l
RT: 11.842 min Scan# 3266
Delta R.T. 0.090 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26



Tgt Ion:	146	Resp:	131378
Ion	Ratio	Lower	Upper
146	100		
111	40.0	33.3	49.9
148	63.7	50.9	76.3

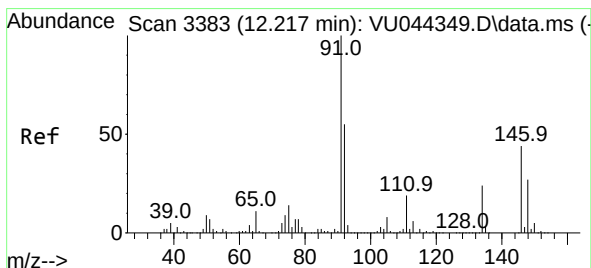
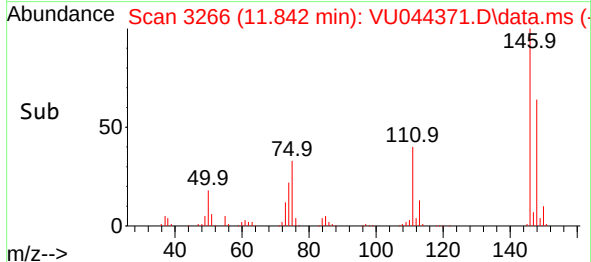
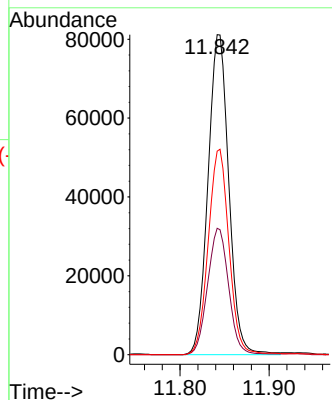
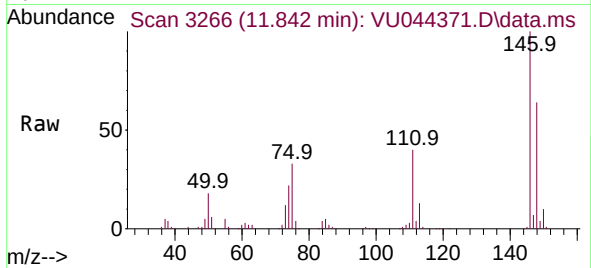




#83
1,4-Dichlorobenzene
Concen: 4.088 ug/l
RT: 11.842 min Scan# 3266
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

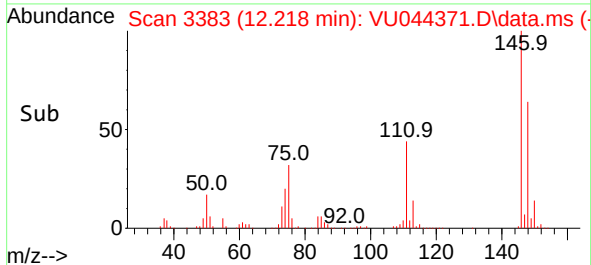
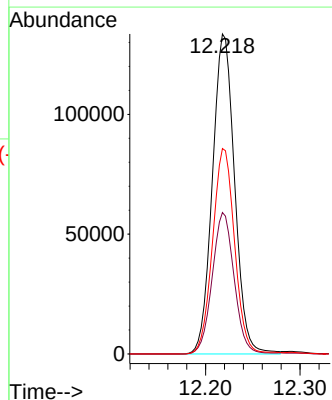
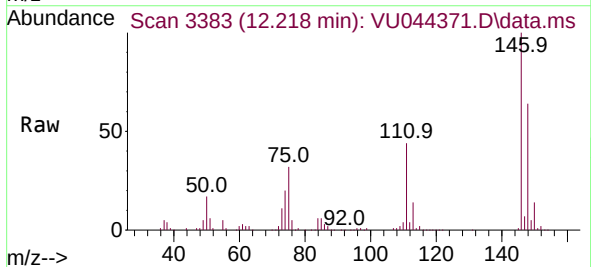
Instrument :
MSVOA_U
ClientSampleId :

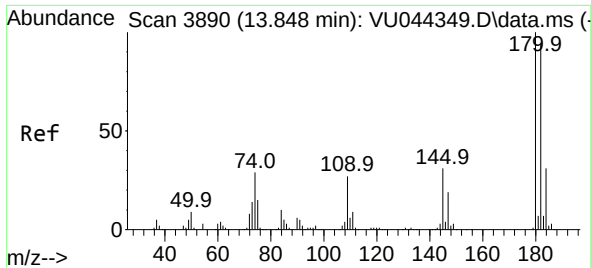
Tgt Ion:146 Resp: 131378
Ion Ratio Lower Upper
146 100
111 40.0 32.6 48.8
148 63.7 50.8 76.2



#85
1,2-Dichlorobenzene
Concen: 7.075 ug/l
RT: 12.218 min Scan# 3383
Delta R.T. 0.000 min
Lab File: VU044371.D
Acq: 20 Jul 2021 13:26

Tgt Ion:146 Resp: 218069
Ion Ratio Lower Upper
146 100
111 43.5 21.6 64.6
148 63.9 31.9 95.7





#87
 1,2,4-Trichlorobenzene
 Concen: 18.961 ug/l
 RT: 13.848 min Scan# 3890
 Delta R.T. 0.000 min
 Lab File: VU044371.D
 Acq: 20 Jul 2021 13:26

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:180 Resp: 413501
 Ion Ratio Lower Upper
 180 100
 182 94.9 77.0 115.6
 145 31.5 25.8 38.6

