

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012423\
 Data File : VU052797.D
 Acq On : 24 Jan 2023 18:13
 Operator : JC/MD
 Sample : 01245-07DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 25 01:41:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U012323DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Jan 24 05:16:59 2023
 Response via : Initial Calibration

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

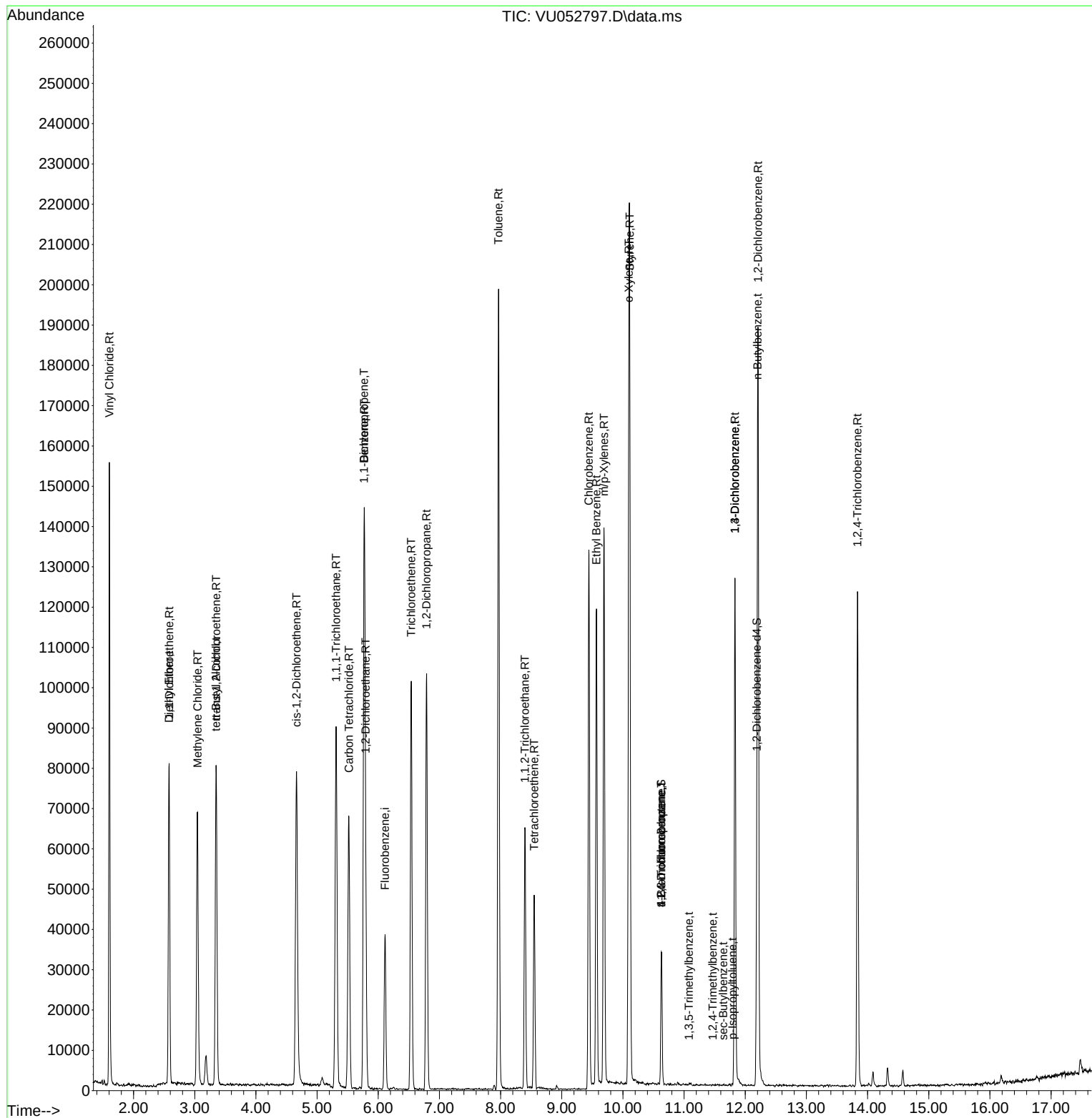
Internal Standards						
1) Fluorobenzene	6.112	96	35895	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.629	95	10726	0.898	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.000%	
68) 1,2-Dichlorobenzene-d4	12.189	152	11190	0.911	ug/l	0.00
Spiked Amount 1.000			Recovery	=	91.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.604	62	109387	9.826	ug/l	100
9) 1,1-Dichloroethene	2.581	96	28451	3.397	ug/l	99
15) Methylene Chloride	3.044	84	34196	3.380	ug/l	96
16) trans-1,2-Dichloroethene	3.350	96	34740	3.728	ug/l	99
22) cis-1,2-Dichloroethene	4.665	96	37456	3.846	ug/l	87
23) Diethyl Ether	2.578	59	1370	0.231	ug/l #	15
24) tert-Butyl Alcohol	3.346	59	1570	2.202	ug/l #	22
28) 1,1,1-Trichloroethane	5.311	97	66617	4.277	ug/l	98
29) 1,1-Dichloropropene	5.768	75	2662	0.203	ug/l #	1
30) Carbon Tetrachloride	5.520	117	47470	3.359	ug/l	98
35) Benzene	5.771	78	131351	3.447	ug/l	99
36) 1,2-Dichloroethane	5.793	62	39100	3.416	ug/l	100
37) Trichloroethene	6.539	130	35687	3.435	ug/l	96
38) 1,2-Dichloropropane	6.790	63	37458	3.875	ug/l	94
46) t-1,4-Dichloro-2-butene	10.629	75	5770	2.140	ug/l #	25
49) Toluene	7.967	92	84451	3.650	ug/l	100
52) 1,1,2-Trichloroethane	8.398	97	20207	2.904	ug/l	98
58) Tetrachloroethene	8.549	164	11420	1.218	ug/l	93
59) Chlorobenzene	9.443	112	73623	2.924	ug/l	99
63) Ethyl Benzene	9.568	91	80676	1.978	ug/l	99
64) m/p-Xylenes	9.693	106	39683	2.440	ug/l	97
65) o-Xylene	10.095	106	40261	2.566	ug/l	98
66) Styrene	10.111	104	69191	2.612	ug/l	99
71) 1,2,3-Trichloropropane	10.629	75	5770	0.768	ug/l #	42
75) 1,3,5-Trimethylbenzene	11.079	105	89	0.422	ug/l #	27
78) 1,2,4-Trimethylbenzene	11.468	105	187	0.459	ug/l #	30
79) sec-Butylbenzene	11.639	105	126	0.431	ug/l #	56
81) p-Isopropyltoluene	11.793	119	420	0.493	ug/l #	56
82) 1,3-Dichlorobenzene	11.832	146	53215	2.570	ug/l	97
83) 1,4-Dichlorobenzene	11.832	146	53215	2.560	ug/l	98
84) n-Butylbenzene	12.201	91	464	0.565	ug/l #	73
85) 1,2-Dichlorobenzene	12.208	146	77791	3.981	ug/l	98
87) 1,2,4-Trichlorobenzene	13.835	180	40713	3.474	ug/l	97

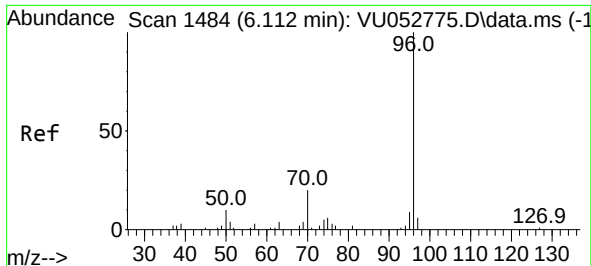
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012423\
Data File : VU052797.D
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Sample : 01245-07DL 5X
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Instrument :
MSVOA_U
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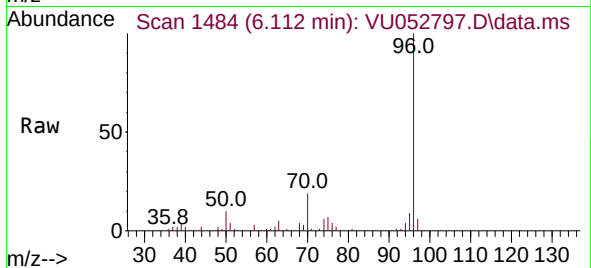
Quant Time: Jan 25 01:41:17 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U012323DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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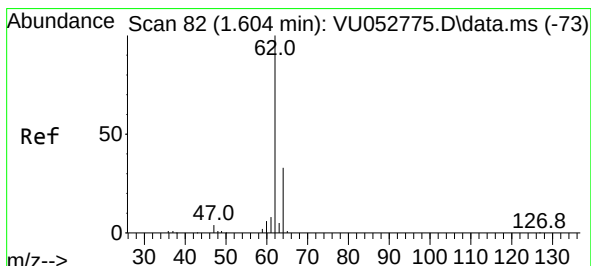
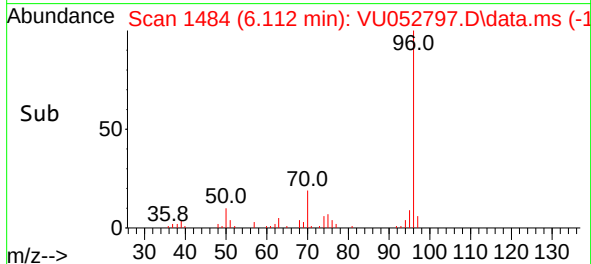
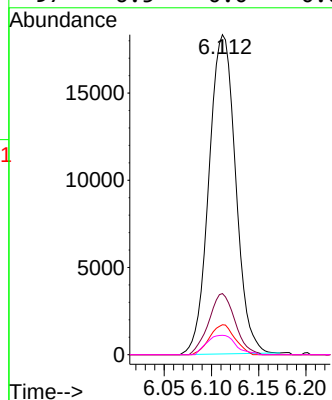


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.112 min Scan# 1484
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Instrument :
MSVOA_U
ClientSampleId :

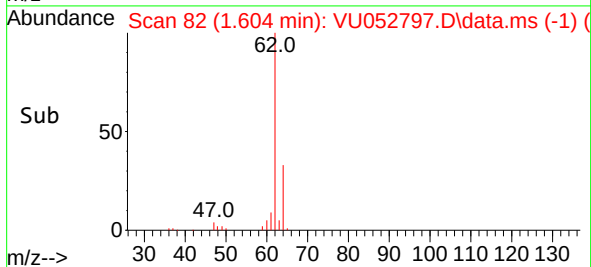
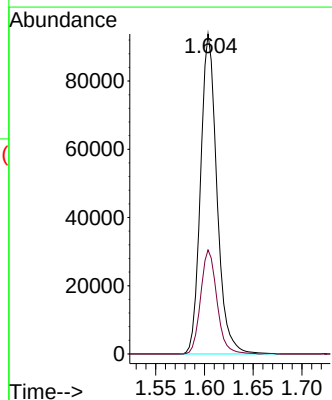
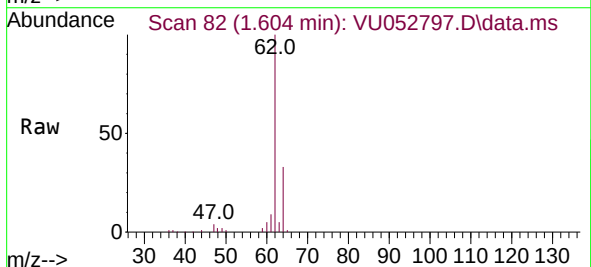


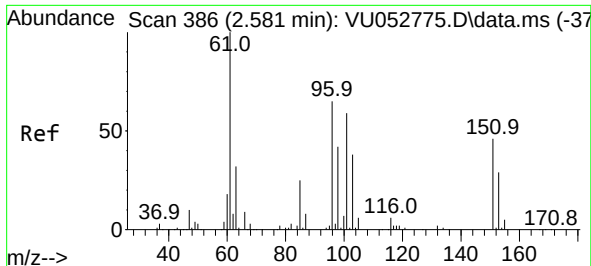
Tgt Ion: 96 Resp: 35895
Ion Ratio Lower Upper
96 100
70 18.8 16.2 24.4
95 8.9 7.4 11.0
97 6.5 0.0 0.0#



#4
Vinyl Chloride
Concen: 9.826 ug/l
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion: 62 Resp: 109387
Ion Ratio Lower Upper
62 100
64 32.5 26.0 39.0

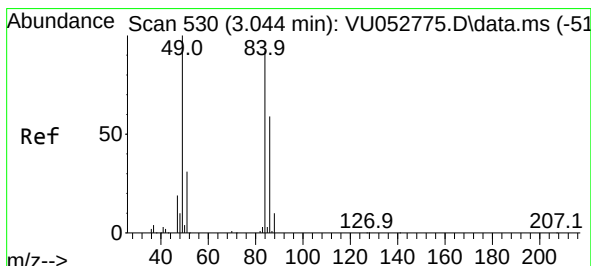
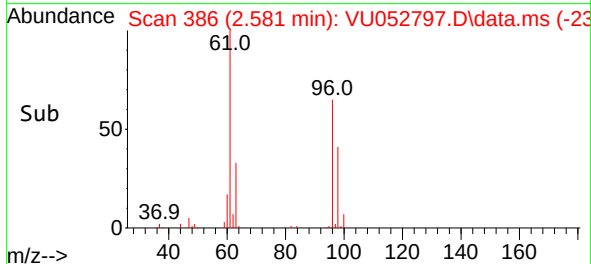
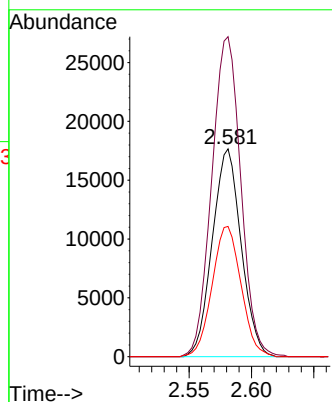
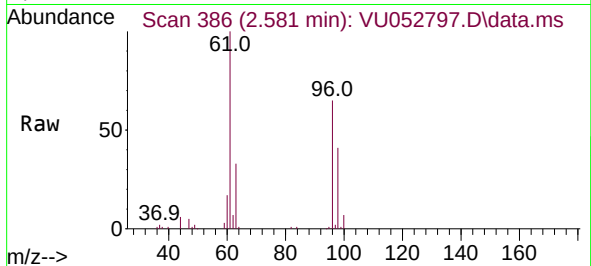




#9
1,1-Dichloroethene
Concen: 3.397 ug/l
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

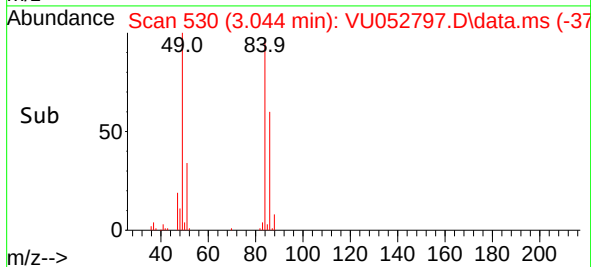
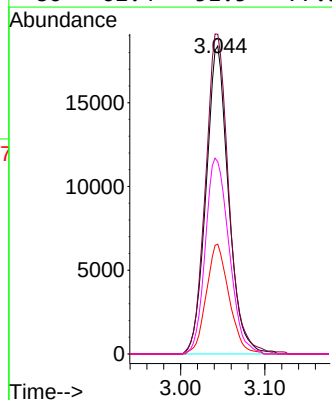
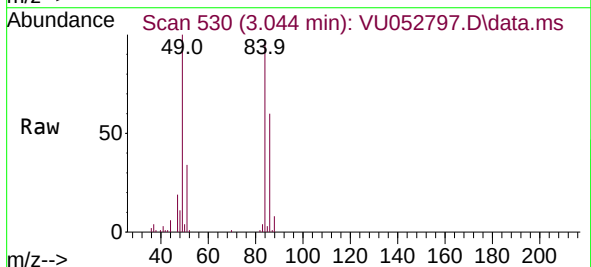
Instrument :
MSVOA_U
ClientSampleId :

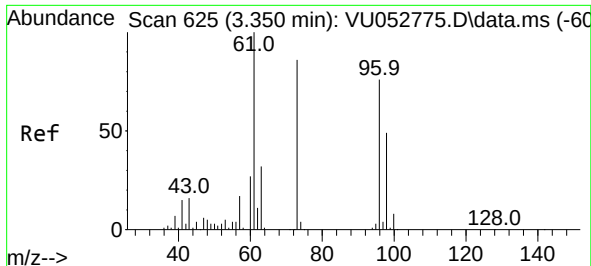
Tgt Ion: 96 Resp: 28451
Ion Ratio Lower Upper
96 100
61 153.9 0.0 460.5
98 62.7 0.0 128.0



#15
Methylene Chloride
Concen: 3.380 ug/l
RT: 3.044 min Scan# 530
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion: 84 Resp: 34196
Ion Ratio Lower Upper
84 100
49 103.8 86.7 130.1
51 35.6 0.0 66.8
86 62.4 51.5 77.3

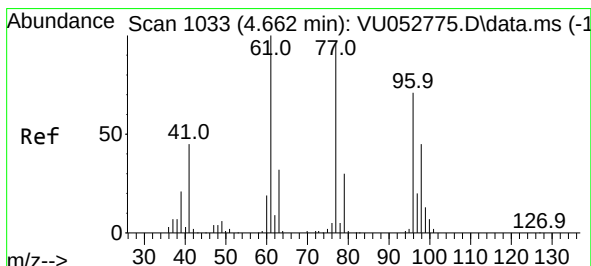
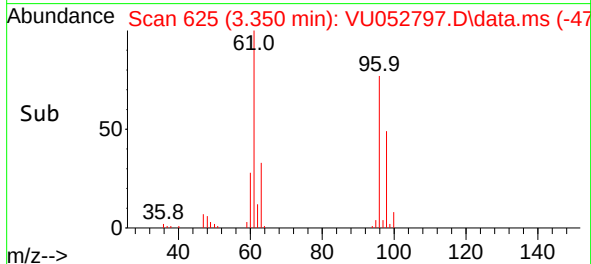
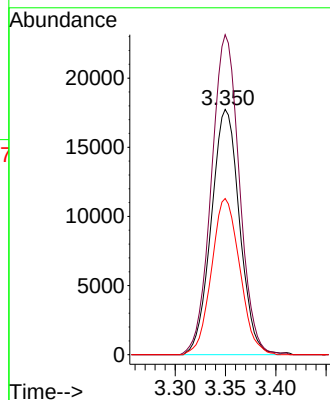
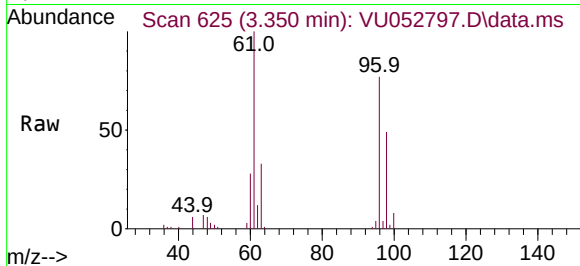




#16
trans-1,2-Dichloroethene
Concen: 3.728 ug/l
RT: 3.350 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

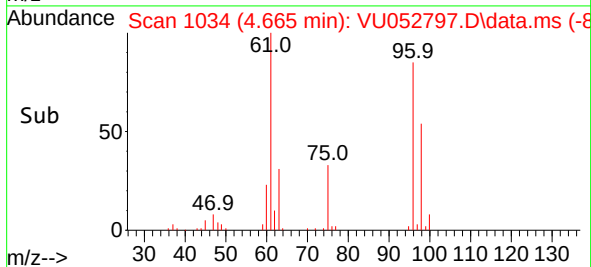
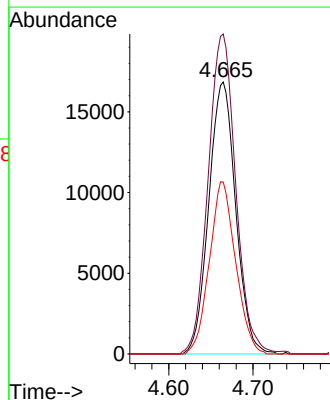
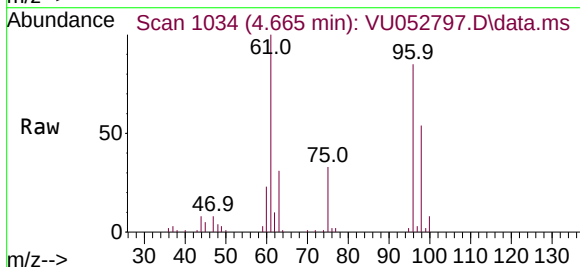
Instrument :
MSVOA_U
ClientSampleId :

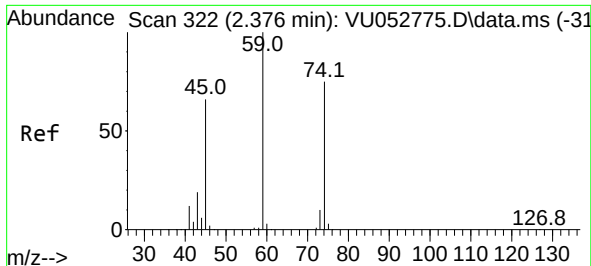
Tgt Ion: 96 Resp: 34740
Ion Ratio Lower Upper
96 100
61 130.5 105.7 158.5
98 63.7 51.4 77.2



#22
cis-1,2-Dichloroethene
Concen: 3.846 ug/l
RT: 4.665 min Scan# 1034
Delta R.T. 0.003 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion: 96 Resp: 37456
Ion Ratio Lower Upper
96 100
61 120.1 0.0 353.3
98 61.6 32.6 97.7





#23

Diethyl Ether

Concen: 0.231 ug/l

RT: 2.578 min Scan# 31

Delta R.T. 0.202 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Instrument :

MSVOA_U

ClientSampleId :

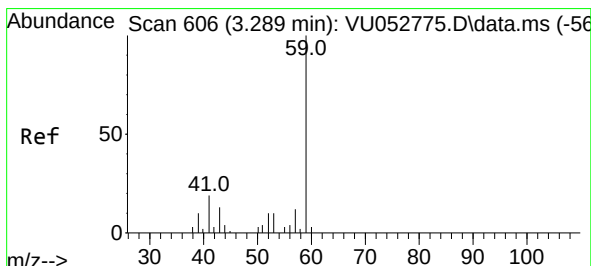
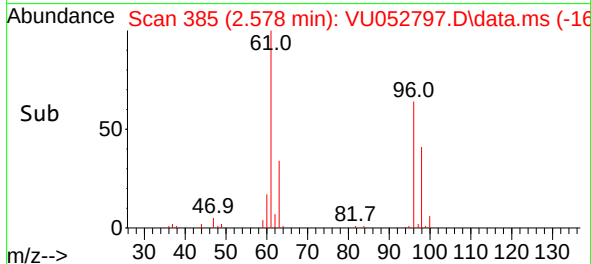
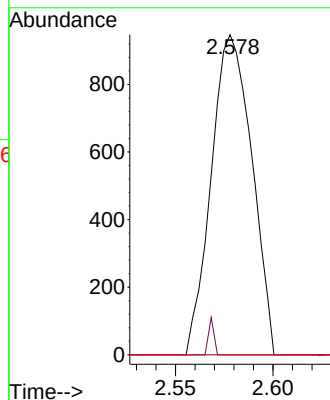
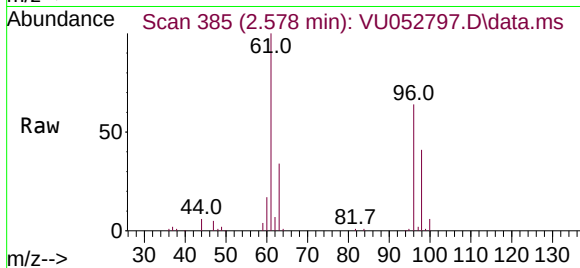
Tgt Ion: 59 Resp: 1370

Ion Ratio Lower Upper

59 100

45 1.5 52.1 78.1#

74 0.0 61.6 92.4#



#24

tert-Butyl Alcohol

Concen: 2.202 ug/l

RT: 3.346 min Scan# 624

Delta R.T. 0.058 min

Lab File: VU052797.D

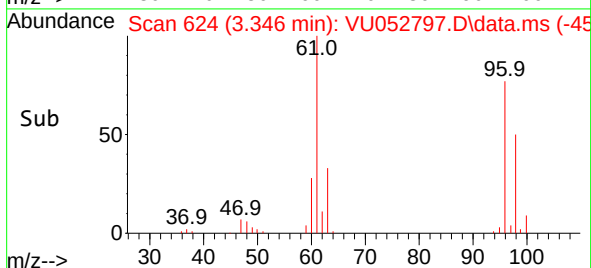
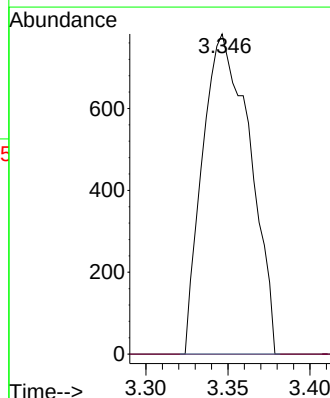
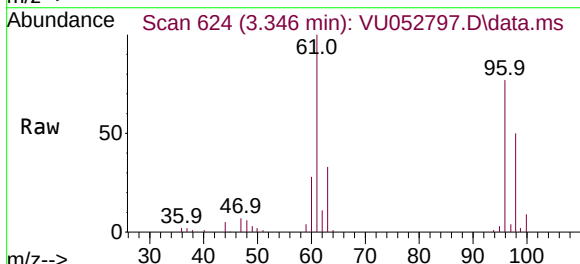
Acq: 24 Jan 2023 18:13

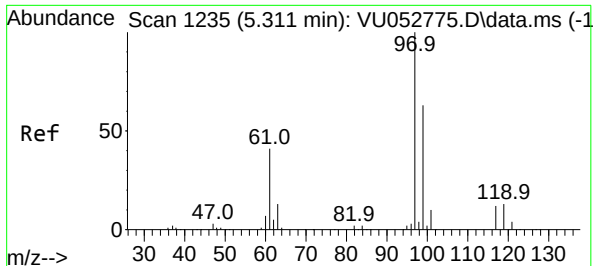
Tgt Ion: 59 Resp: 1570

Ion Ratio Lower Upper

59 100

57 0.0 45.8 68.8#

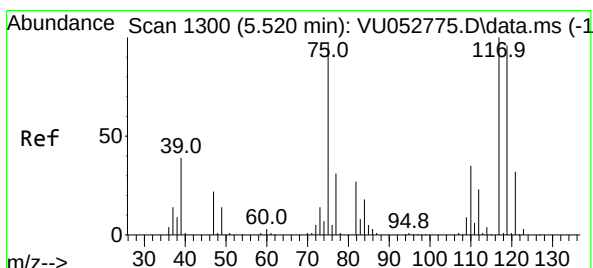
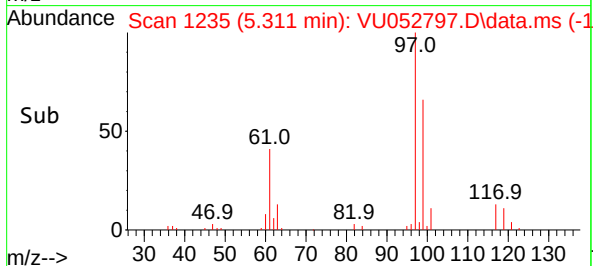
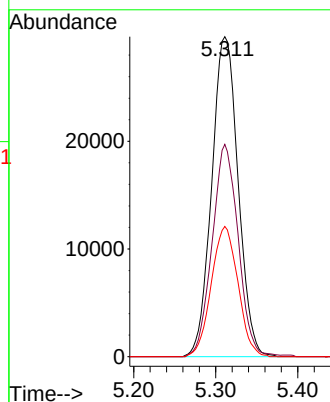
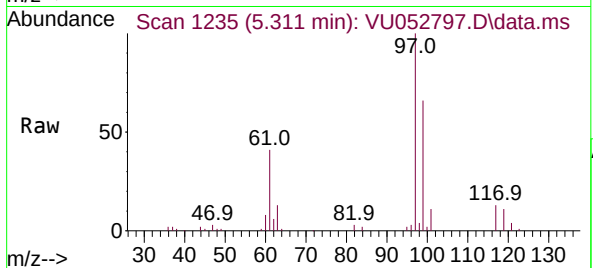




#28
1,1,1-Trichloroethane
Concen: 4.277 ug/l
RT: 5.311 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

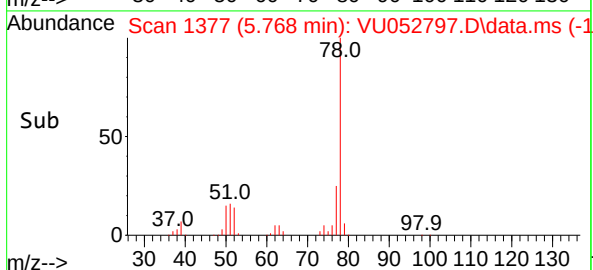
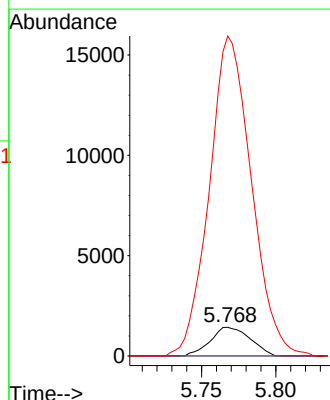
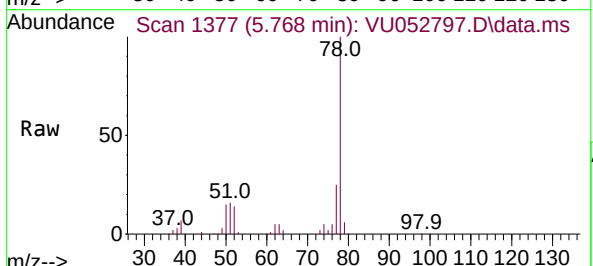
Instrument :
MSVOA_U
ClientSampleId :

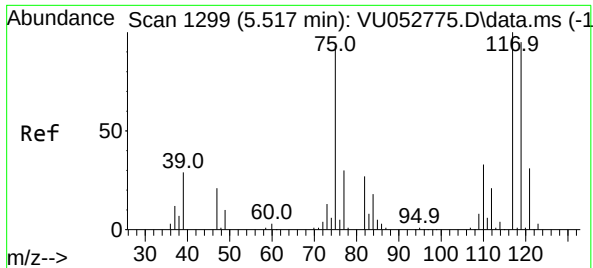
Tgt Ion:	97	Resp:	66617
Ion	Ratio	Lower	Upper
97	100		
99	65.4	31.9	95.5
61	41.1	20.8	62.2



#29
1,1-Dichloropropene
Concen: 0.203 ug/l
RT: 5.768 min Scan# 1377
Delta R.T. 0.247 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion:	75	Resp:	2662
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.4	52.2#
77	1181.9	24.8	37.2#

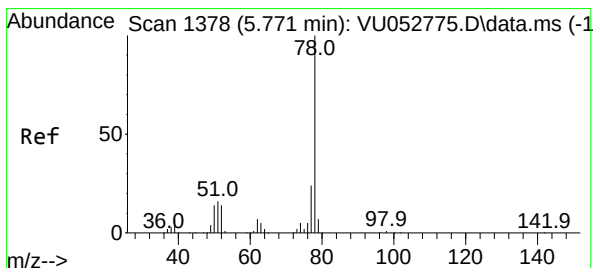
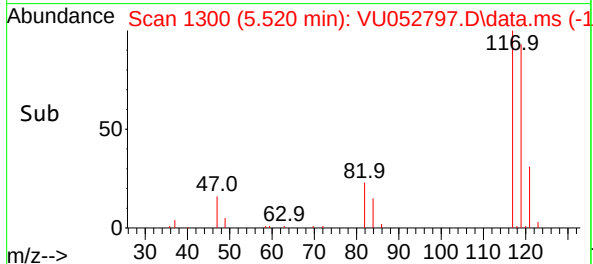
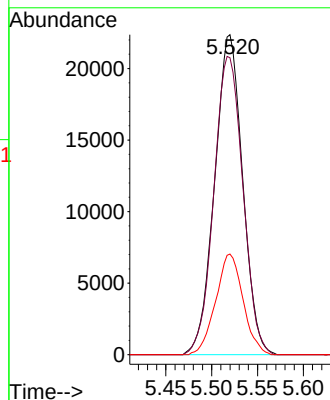
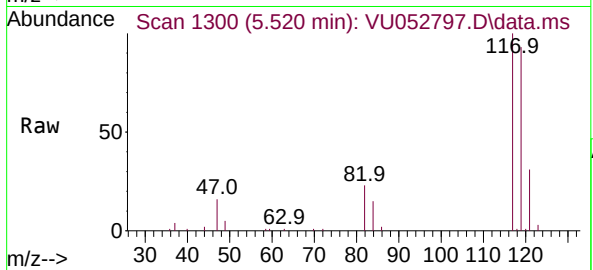




#30
Carbon Tetrachloride
Concen: 3.359 ug/l
RT: 5.520 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

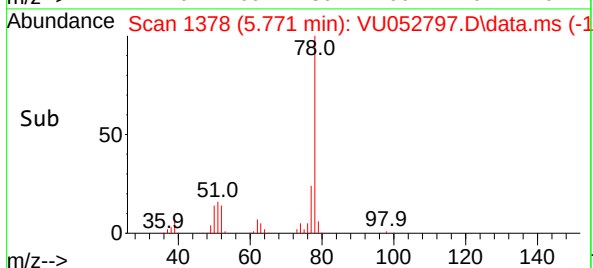
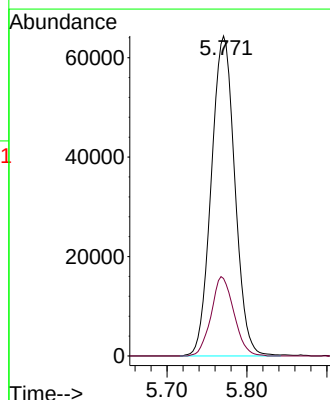
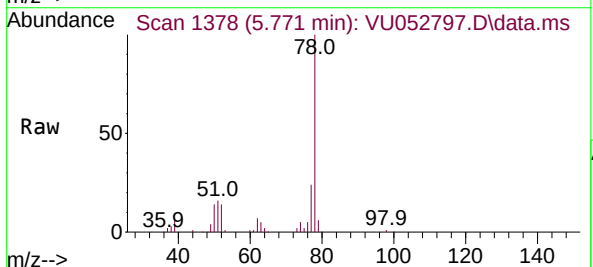
Instrument :
MSVOA_U
ClientSampleId :

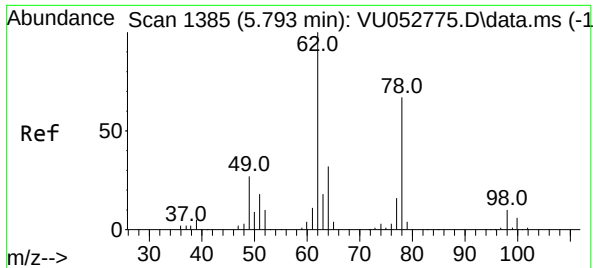
Tgt Ion:117 Resp: 47470
Ion Ratio Lower Upper
117 100
119 92.8 76.4 114.6
121 31.5 25.0 37.6



#35
Benzene
Concen: 3.447 ug/l
RT: 5.771 min Scan# 1378
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion: 78 Resp: 131351
Ion Ratio Lower Upper
78 100
77 24.2 19.0 28.4

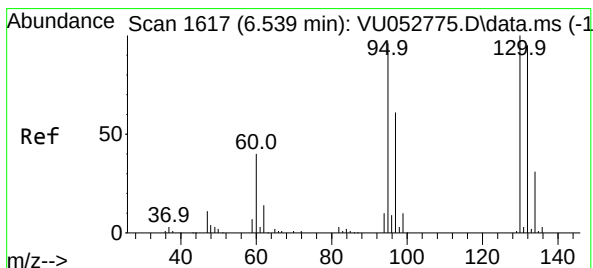
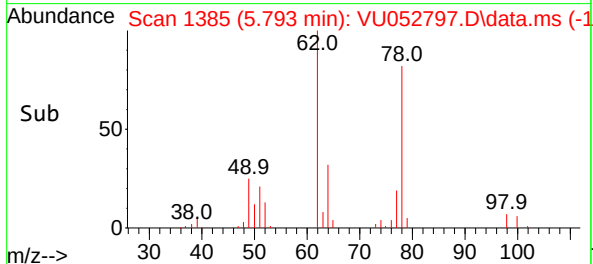
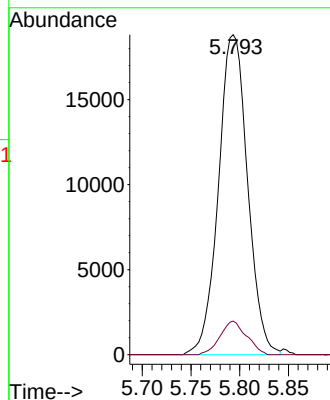
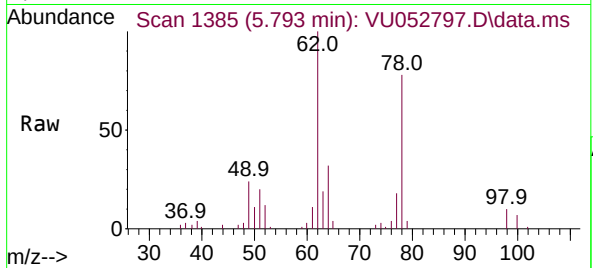




#36
1,2-Dichloroethane
Concen: 3.416 ug/l
RT: 5.793 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

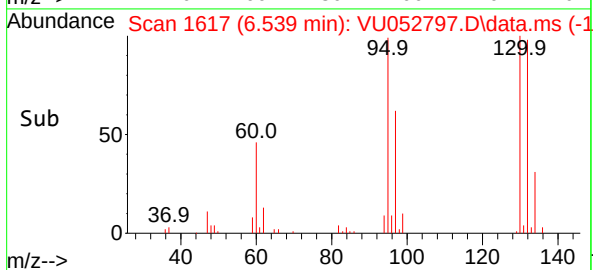
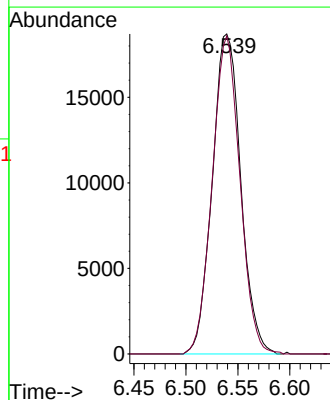
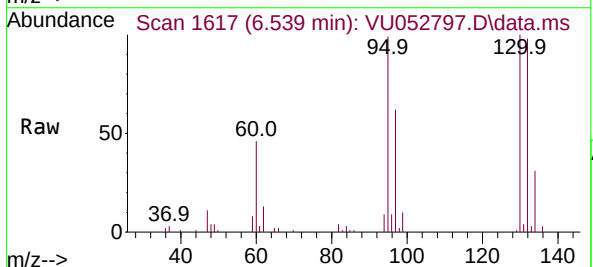
Instrument :
MSVOA_U
ClientSampleId :

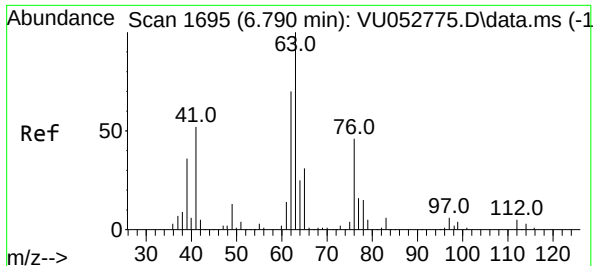
Tgt Ion: 62 Resp: 39100
Ion Ratio Lower Upper
62 100
98 9.5 7.5 11.3



#37
Trichloroethene
Concen: 3.435 ug/l
RT: 6.539 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion:130 Resp: 35687
Ion Ratio Lower Upper
130 100
95 99.4 76.6 114.8





#38

1,2-Dichloropropane

Concen: 3.875 ug/l

RT: 6.790 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Instrument :

MSVOA_U

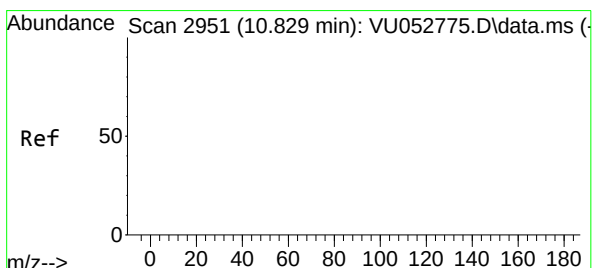
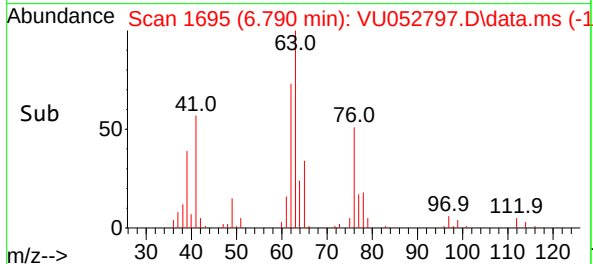
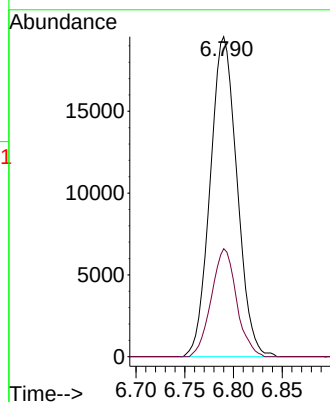
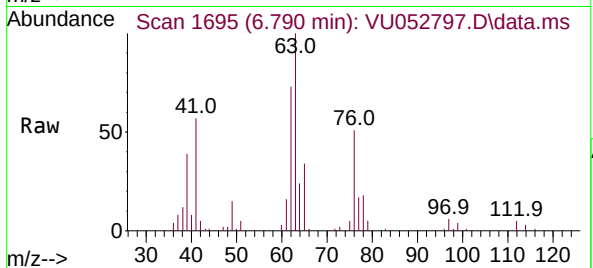
ClientSampleId :

Tgt Ion: 63 Resp: 37458

Ion Ratio Lower Upper

63 100

65 33.8 24.6 36.8



#46

t-1,4-Dichloro-2-butene

Concen: 2.140 ug/l

RT: 10.629 min Scan# 2889

Delta R.T. -0.199 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Tgt Ion: 75 Resp: 5770

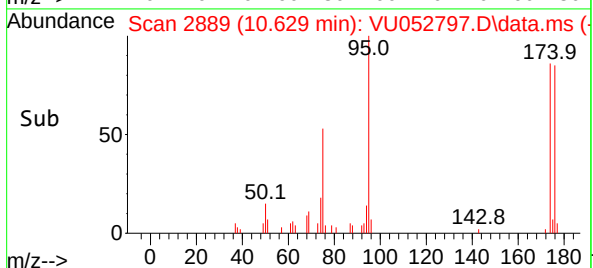
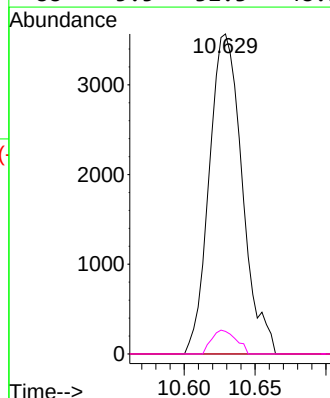
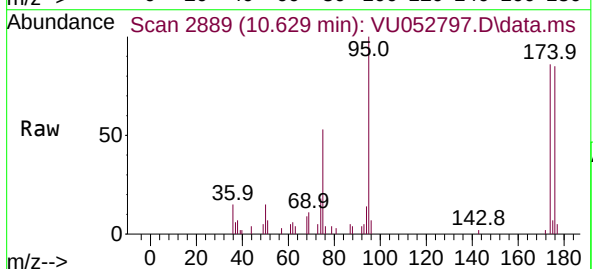
Ion Ratio Lower Upper

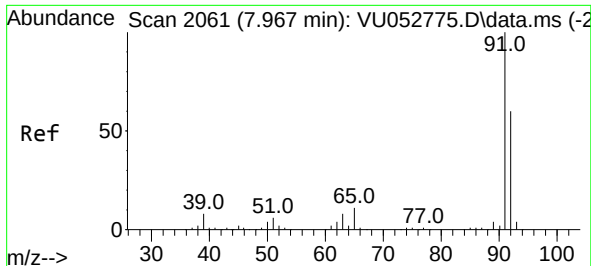
75 100

53 0.0 57.0 85.4#

89 0.0 41.1 61.7#

88 5.5 32.3 48.5#





#49

Toluene

Concen: 3.650 ug/l

RT: 7.967 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Instrument :

MSVOA_U

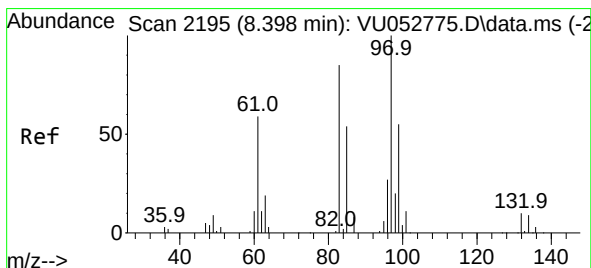
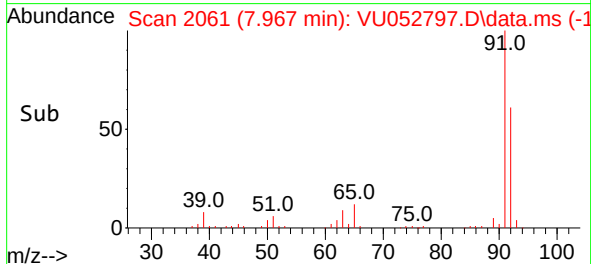
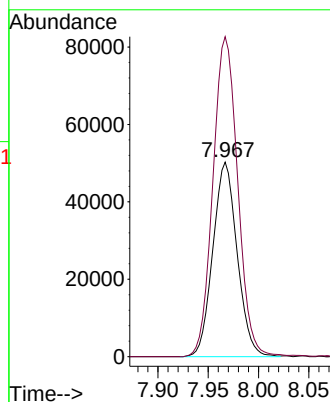
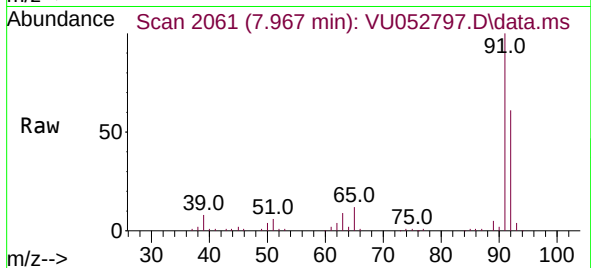
ClientSampleId :

Tgt Ion: 92 Resp: 84451

Ion Ratio Lower Upper

92 100

91 167.8 133.8 200.8



#52

1,1,2-Trichloroethane

Concen: 2.904 ug/l

RT: 8.398 min Scan# 2195

Delta R.T. -0.000 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Tgt Ion: 97 Resp: 20207

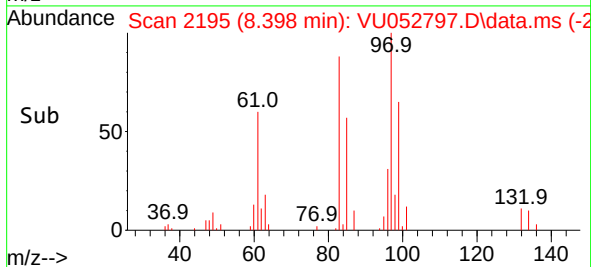
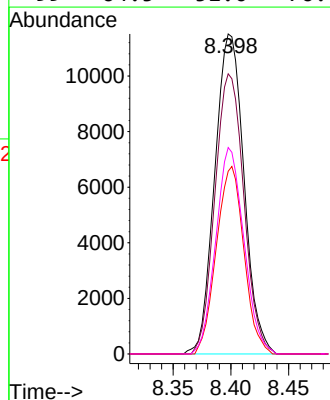
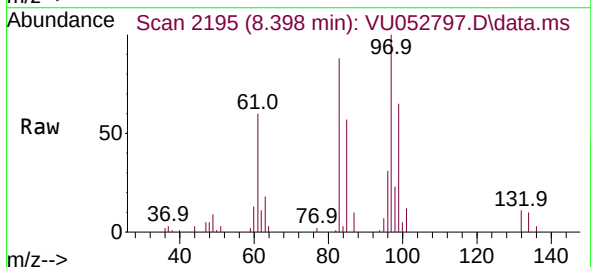
Ion Ratio Lower Upper

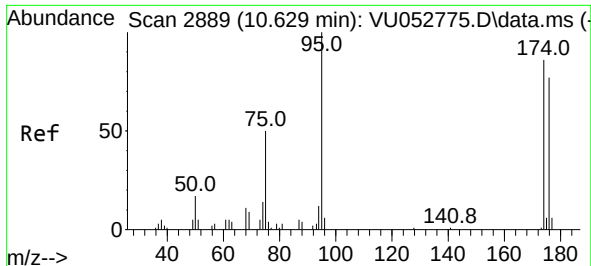
97 100

83 87.6 68.2 102.2

85 57.1 44.5 66.7

99 64.5 51.0 76.4





#57

4-Bromofluorobenzene

Concen: 0.898 ug/l

RT: 10.629 min Scan# 2889

Delta R.T. -0.000 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Instrument :

MSVOA_U

ClientSampleId :

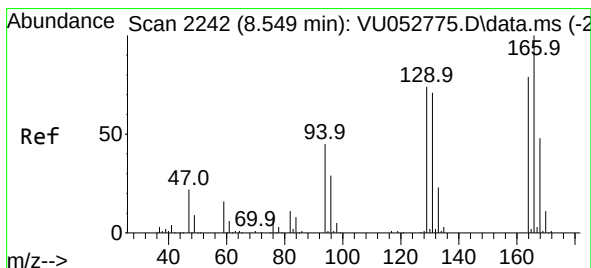
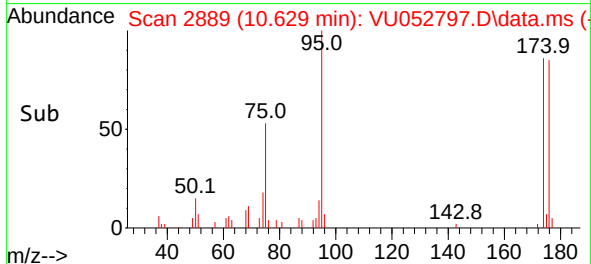
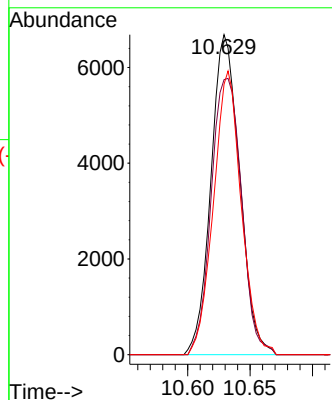
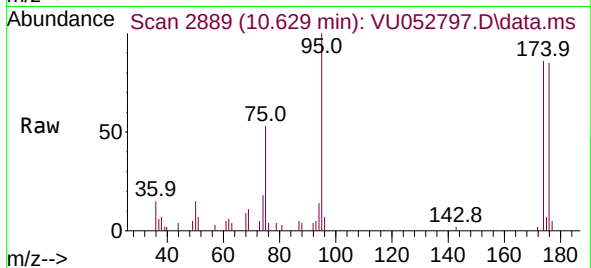
Tgt Ion: 95 Resp: 10726

Ion Ratio Lower Upper

95 100

174 91.1 66.9 100.3

176 85.5 61.9 92.9



#58

Tetrachloroethene

Concen: 1.218 ug/l

RT: 8.549 min Scan# 2242

Delta R.T. -0.000 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Tgt Ion: 164 Resp: 11420

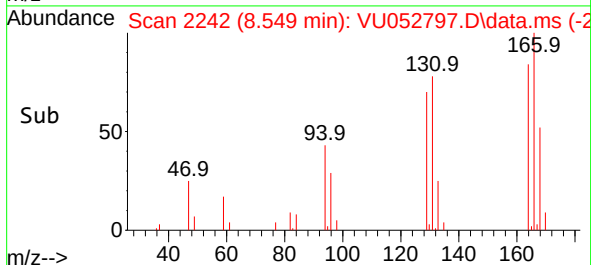
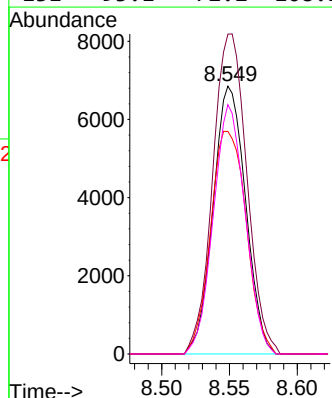
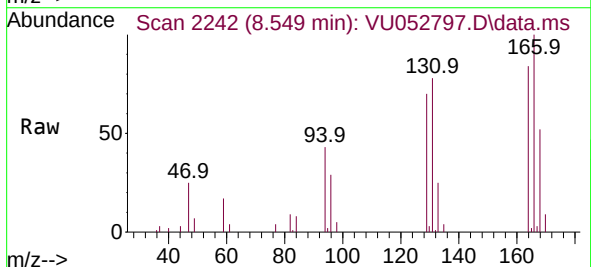
Ion Ratio Lower Upper

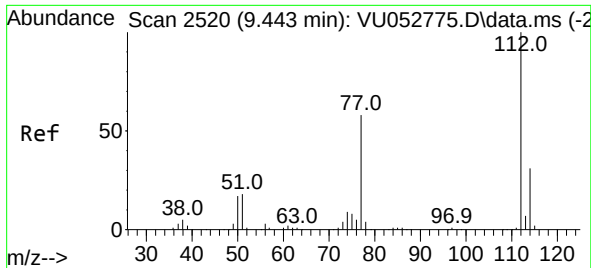
164 100

166 119.4 101.5 152.3

129 83.1 75.2 112.8

131 93.1 72.2 108.2

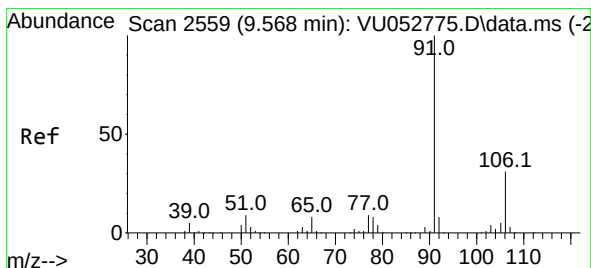
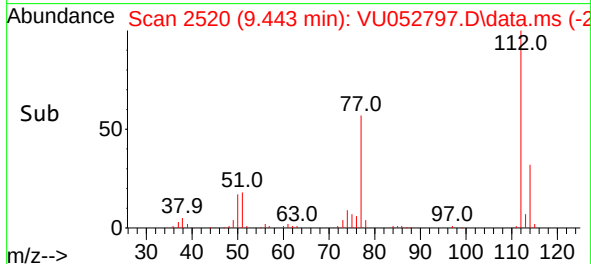
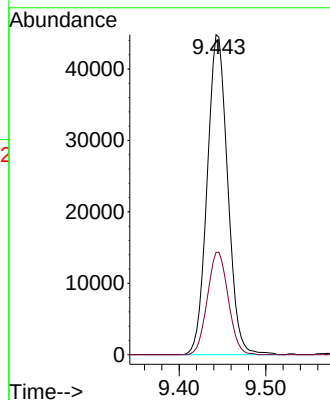
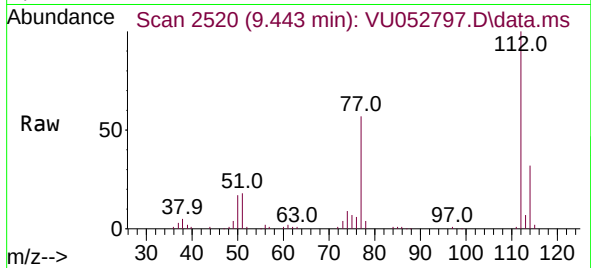




#59
Chlorobenzene
Concen: 2.924 ug/l
RT: 9.443 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

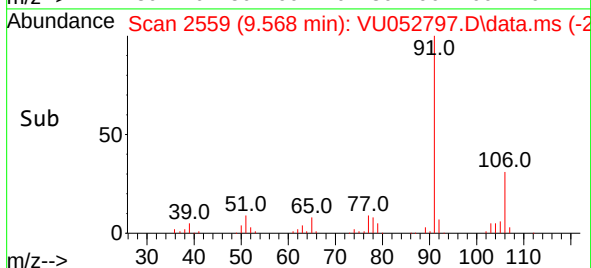
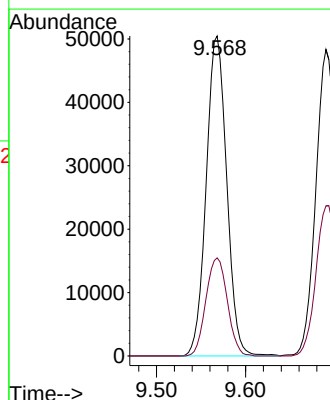
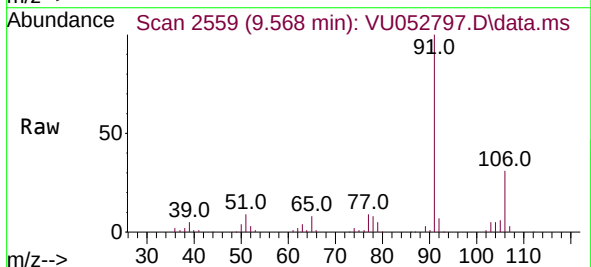
Instrument :
MSVOA_U
ClientSampleId :

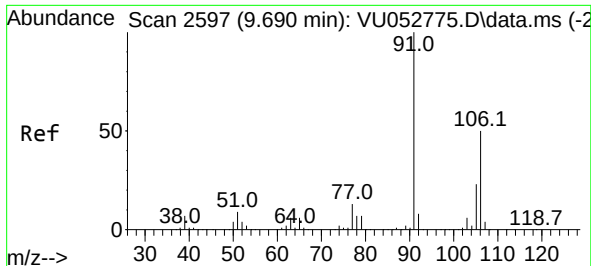
Tgt Ion:112 Resp: 73623
Ion Ratio Lower Upper
112 100
114 32.0 25.2 37.8



#63
Ethyl Benzene
Concen: 1.978 ug/l
RT: 9.568 min Scan# 2559
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion: 91 Resp: 80676
Ion Ratio Lower Upper
91 100
106 30.6 25.1 37.7

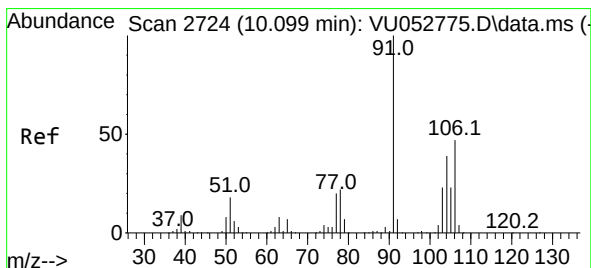
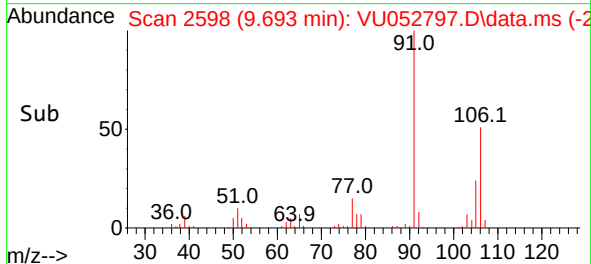
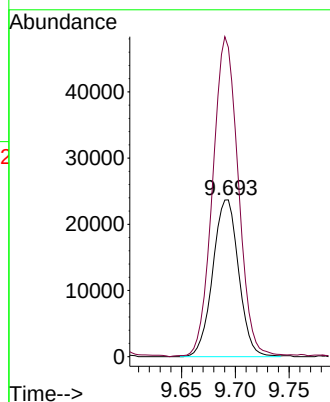
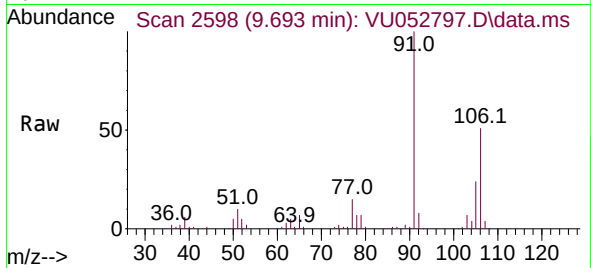




#64
m/p-Xylenes
Concen: 2.440 ug/l
RT: 9.693 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

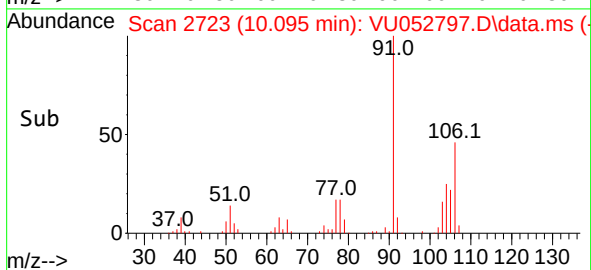
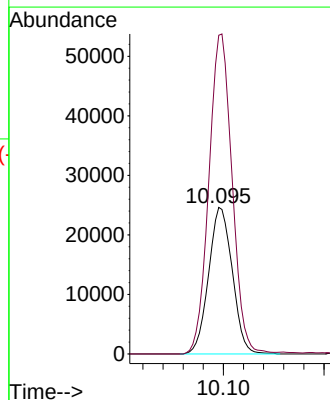
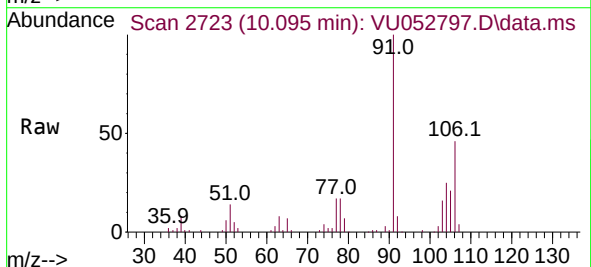
Instrument :
MSVOA_U
ClientSampleId :

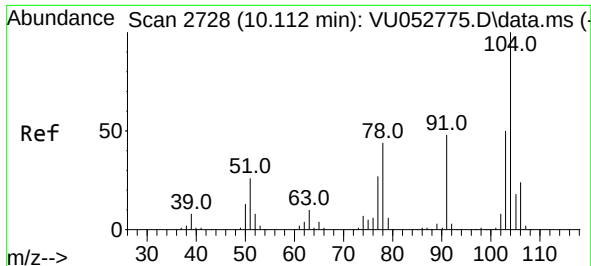
Tgt Ion:106 Resp: 39683
Ion Ratio Lower Upper
106 100
91 203.1 158.7 238.1



#65
o-Xylene
Concen: 2.566 ug/l
RT: 10.095 min Scan# 2723
Delta R.T. -0.004 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

Tgt Ion:106 Resp: 40261
Ion Ratio Lower Upper
106 100
91 214.1 105.6 316.8

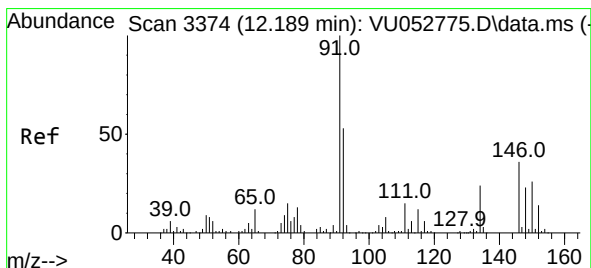
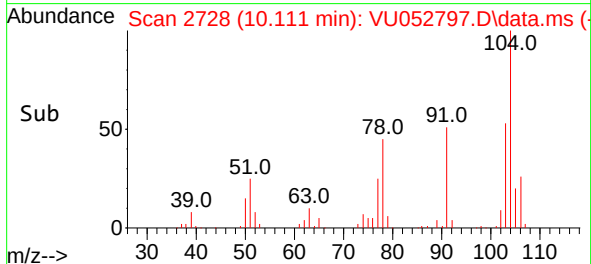
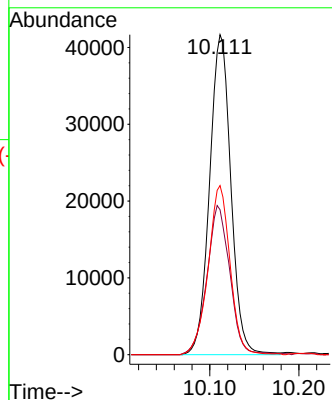
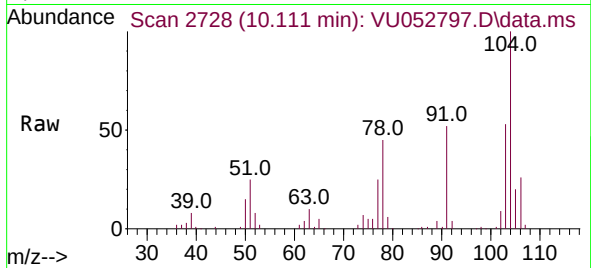




#66
 Styrene
 Concen: 2.612 ug/l
 RT: 10.111 min Scan# 21
 Delta R.T. -0.001 min
 Lab File: VU052797.D
 Acq: 24 Jan 2023 18:13

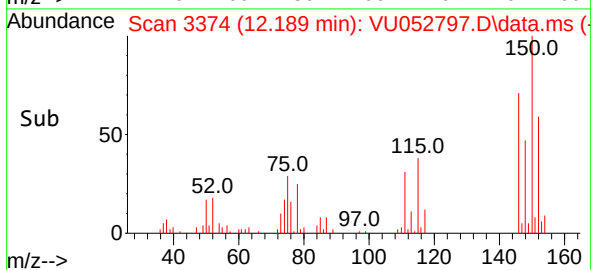
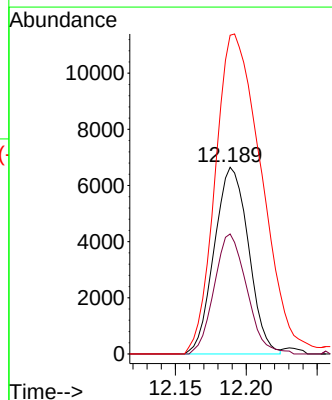
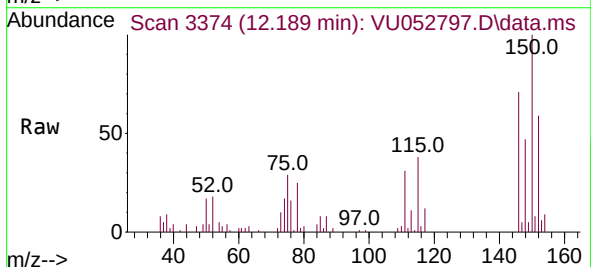
Instrument :
 MSVOA_U
 ClientSampleId :

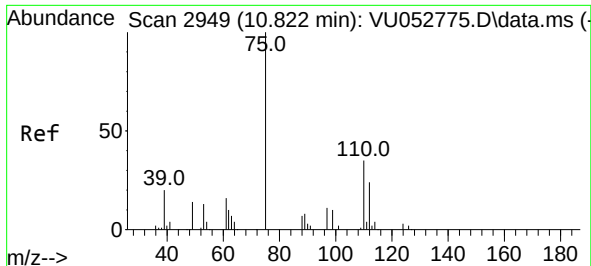
Tgt Ion:104 Resp: 69191
 Ion Ratio Lower Upper
 104 100
 78 50.0 39.6 59.4
 103 54.3 42.9 64.3



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.911 ug/l
 RT: 12.189 min Scan# 3374
 Delta R.T. -0.000 min
 Lab File: VU052797.D
 Acq: 24 Jan 2023 18:13

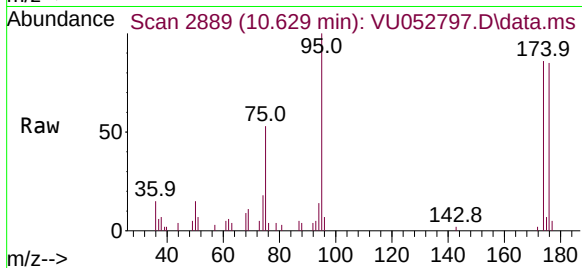
Tgt Ion:152 Resp: 11190
 Ion Ratio Lower Upper
 152 100
 115 61.1 0.0 262.6
 150 231.0 0.0 638.0



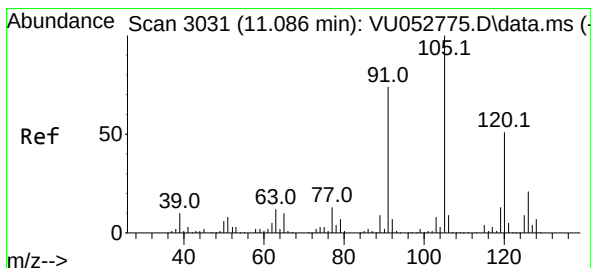
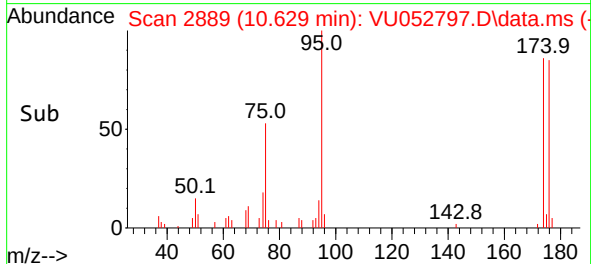
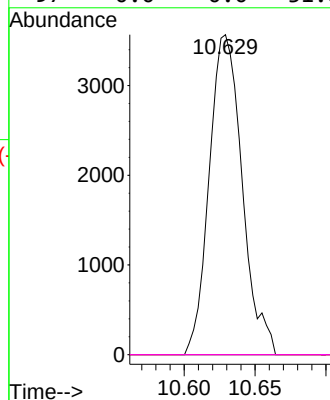


#71
 1,2,3-Trichloropropane
 Concen: 0.768 ug/l
 RT: 10.629 min Scan# 21
 Delta R.T. -0.193 min
 Lab File: VU052797.D
 Acq: 24 Jan 2023 18:13

Instrument :
 MSVOA_U
 ClientSampleId :

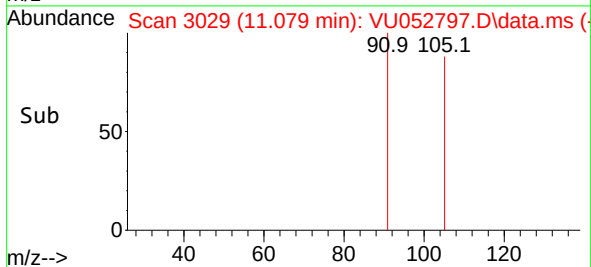
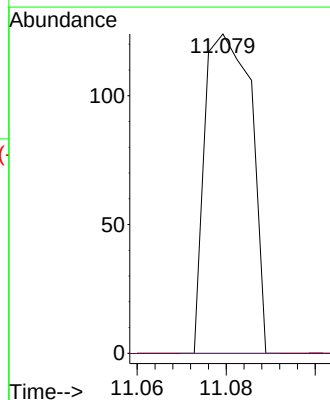
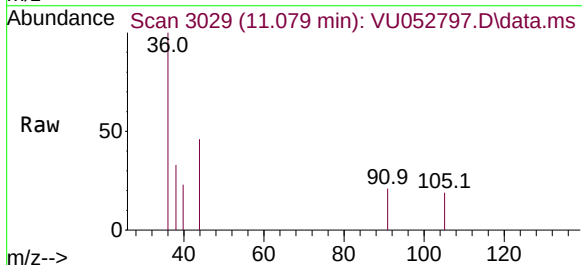


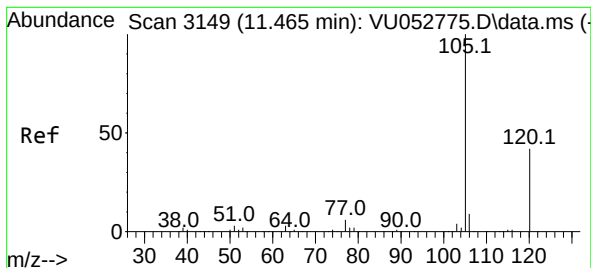
Tgt Ion: 75	Resp: 5770
Ion Ratio	Lower Upper
75 100	
77 0.8	0.0 86.0
110 0.0	0.0 63.8
97 0.0	0.0 31.8



#75
 1,3,5-Trimethylbenzene
 Concen: 0.422 ug/l
 RT: 11.079 min Scan# 3029
 Delta R.T. -0.007 min
 Lab File: VU052797.D
 Acq: 24 Jan 2023 18:13

Tgt Ion:105	Resp:	89	
Ion	Ratio	Lower	Upper
105	100		
120	0.0	39.9	59.9#





#78

1,2,4-Trimethylbenzene

Concen: 0.459 ug/l

RT: 11.468 min Scan# 3149

Delta R.T. 0.003 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Instrument :

MSVOA_U

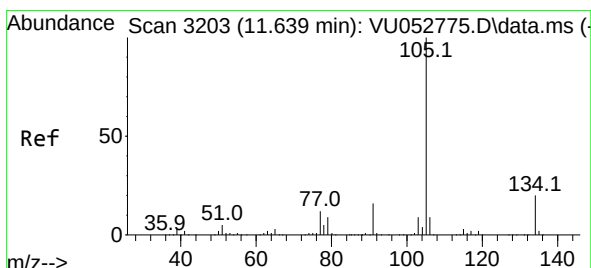
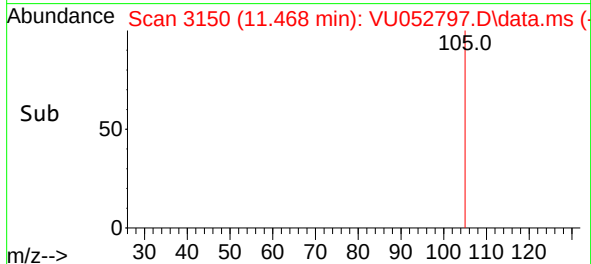
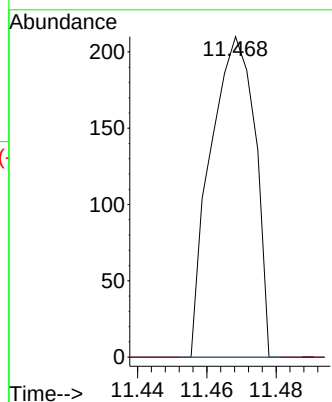
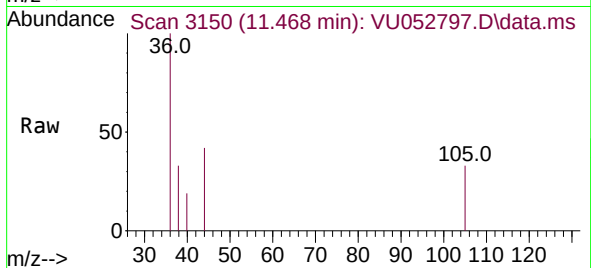
ClientSampleId :

Tgt Ion:105 Resp: 187

Ion Ratio Lower Upper

105 100

120 0.0 23.4 70.3#



#79

sec-Butylbenzene

Concen: 0.431 ug/l

RT: 11.639 min Scan# 3203

Delta R.T. -0.000 min

Lab File: VU052797.D

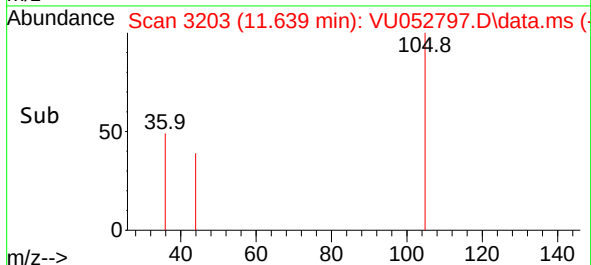
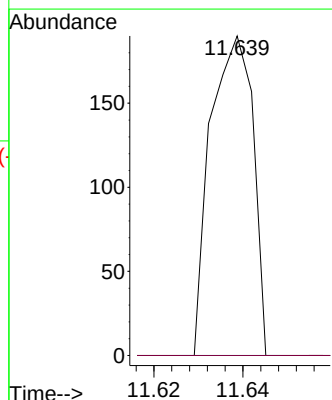
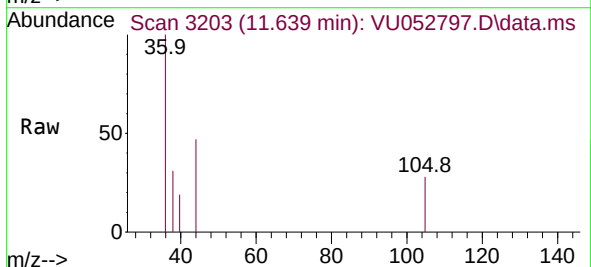
Acq: 24 Jan 2023 18:13

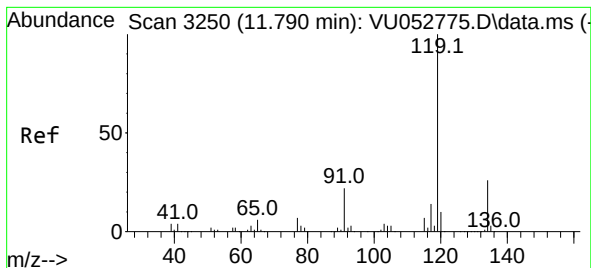
Tgt Ion:105 Resp: 126

Ion Ratio Lower Upper

105 100

134 0.0 16.5 24.7#





#81

p-Isopropyltoluene

Concen: 0.493 ug/l

RT: 11.793 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU052797.D

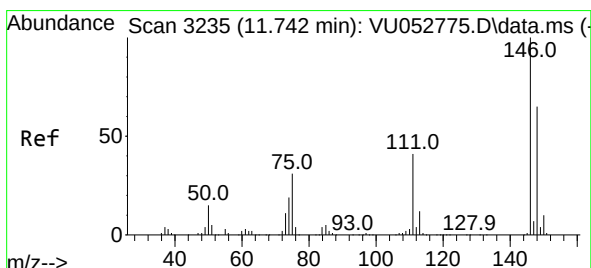
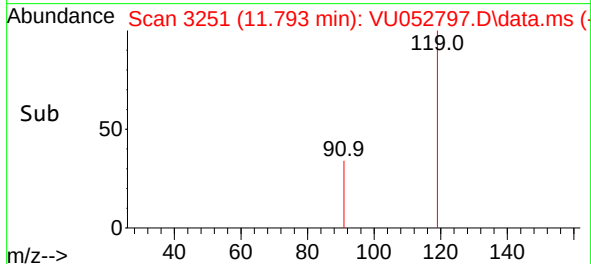
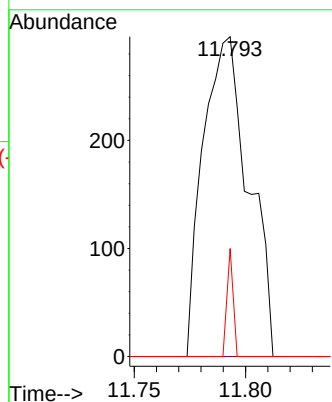
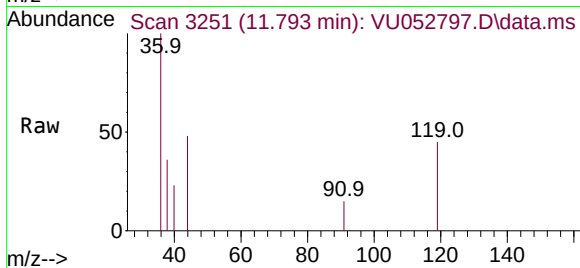
Acq: 24 Jan 2023 18:13

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:119	Resp:	420
Ion	Ratio	Lower Upper
119	100	
134	0.0	20.7 31.1#
91	4.5	17.6 26.4#



#82

1,3-Dichlorobenzene

Concen: 2.570 ug/l

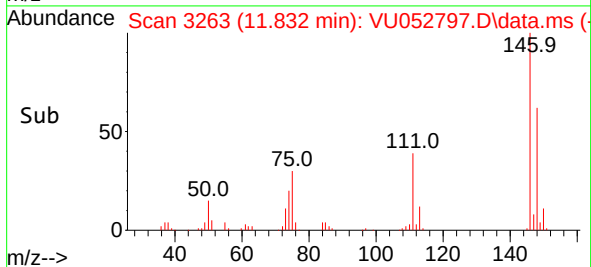
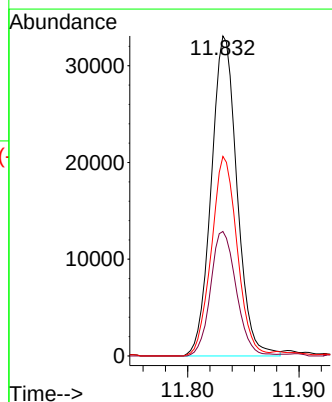
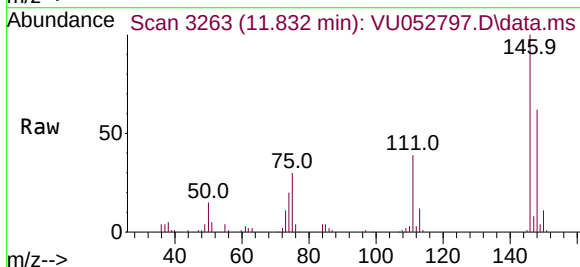
RT: 11.832 min Scan# 3263

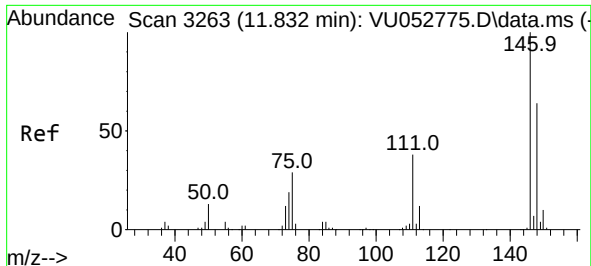
Delta R.T. 0.090 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

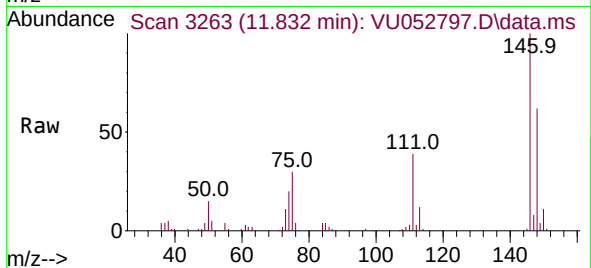
Tgt Ion:146	Resp:	53215
Ion	Ratio	Lower Upper
146	100	
111	38.8	32.6 48.8
148	62.6	51.9 77.9



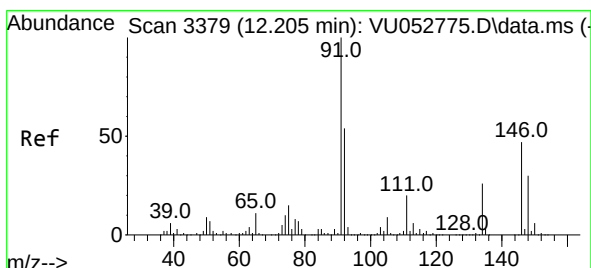
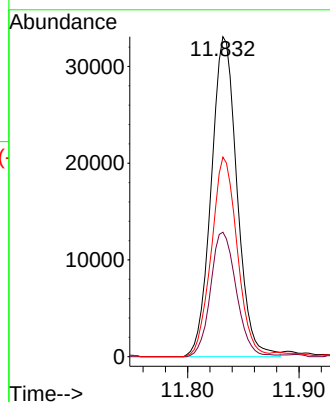
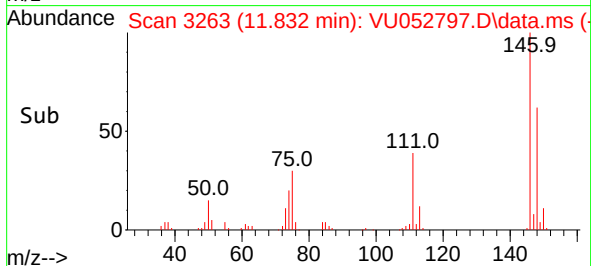


#83
1,4-Dichlorobenzene
Concen: 2.560 ug/l
RT: 11.832 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13

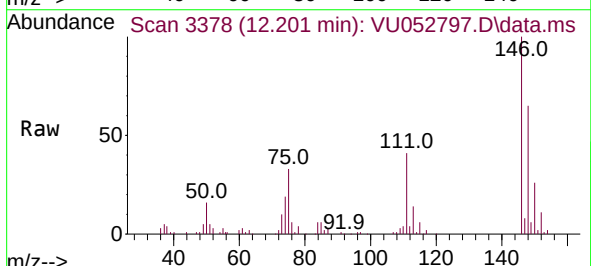
Instrument :
MSVOA_U
ClientSampleId :



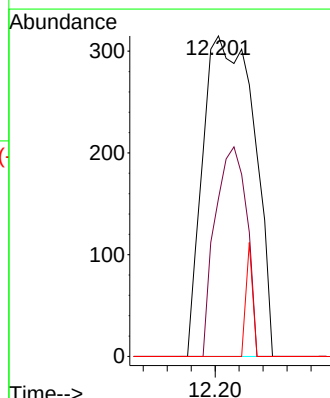
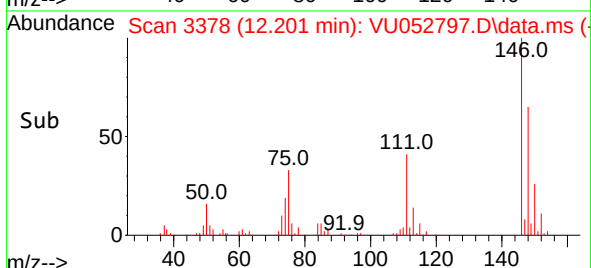
Tgt Ion:146 Resp: 53215
Ion Ratio Lower Upper
146 100
111 38.8 29.5 44.3
148 62.6 51.4 77.0

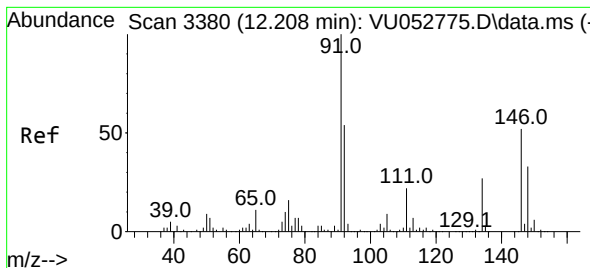


#84
n-Butylbenzene
Concen: 0.565 ug/l
RT: 12.201 min Scan# 3378
Delta R.T. -0.004 min
Lab File: VU052797.D
Acq: 24 Jan 2023 18:13



Tgt Ion: 91 Resp: 464
Ion Ratio Lower Upper
91 100
92 40.3 43.4 65.0#
134 4.7 21.2 31.8#





#85

1,2-Dichlorobenzene

Concen: 3.981 ug/l

RT: 12.208 min Scan# 3380

Delta R.T. -0.000 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Instrument :

MSVOA_U

ClientSampleId :

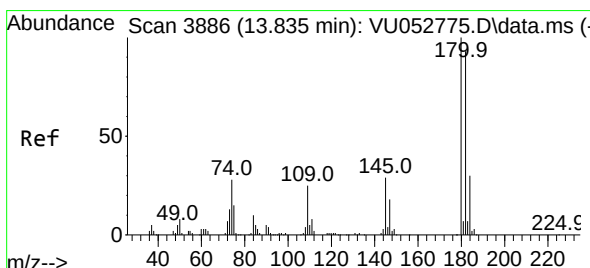
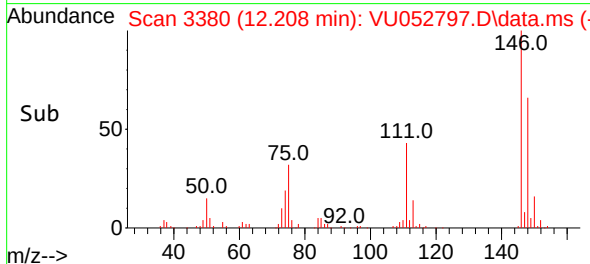
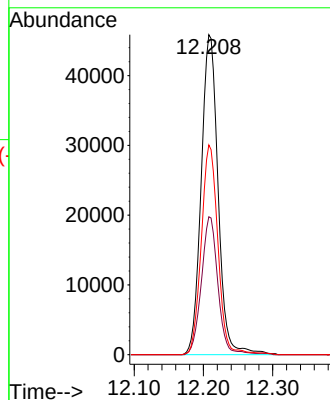
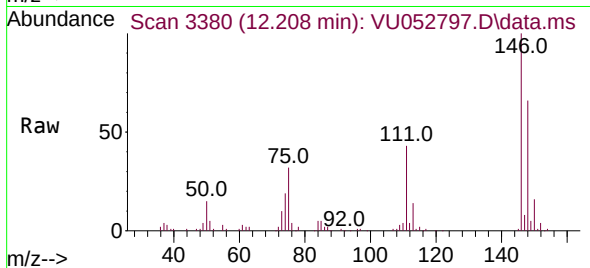
Tgt Ion:146 Resp: 77791

Ion Ratio Lower Upper

146 100

111 42.0 20.8 62.5

148 64.6 31.4 94.2



#87

1,2,4-Trichlorobenzene

Concen: 3.474 ug/l

RT: 13.835 min Scan# 3886

Delta R.T. -0.000 min

Lab File: VU052797.D

Acq: 24 Jan 2023 18:13

Tgt Ion:180 Resp: 40713

Ion Ratio Lower Upper

180 100

182 96.7 74.6 112.0

145 29.3 23.4 35.0

