

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU082222\
 Data File : VU050398.D
 Acq On : 22 Aug 2022 13:56
 Operator : SY/MD
 Sample : M3734-12DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WS-TRIHALOMETHANESDL

Quant Time: Aug 23 08:26:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U081922DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Aug 23 08:18:20 2022
 Response via : Initial Calibration

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

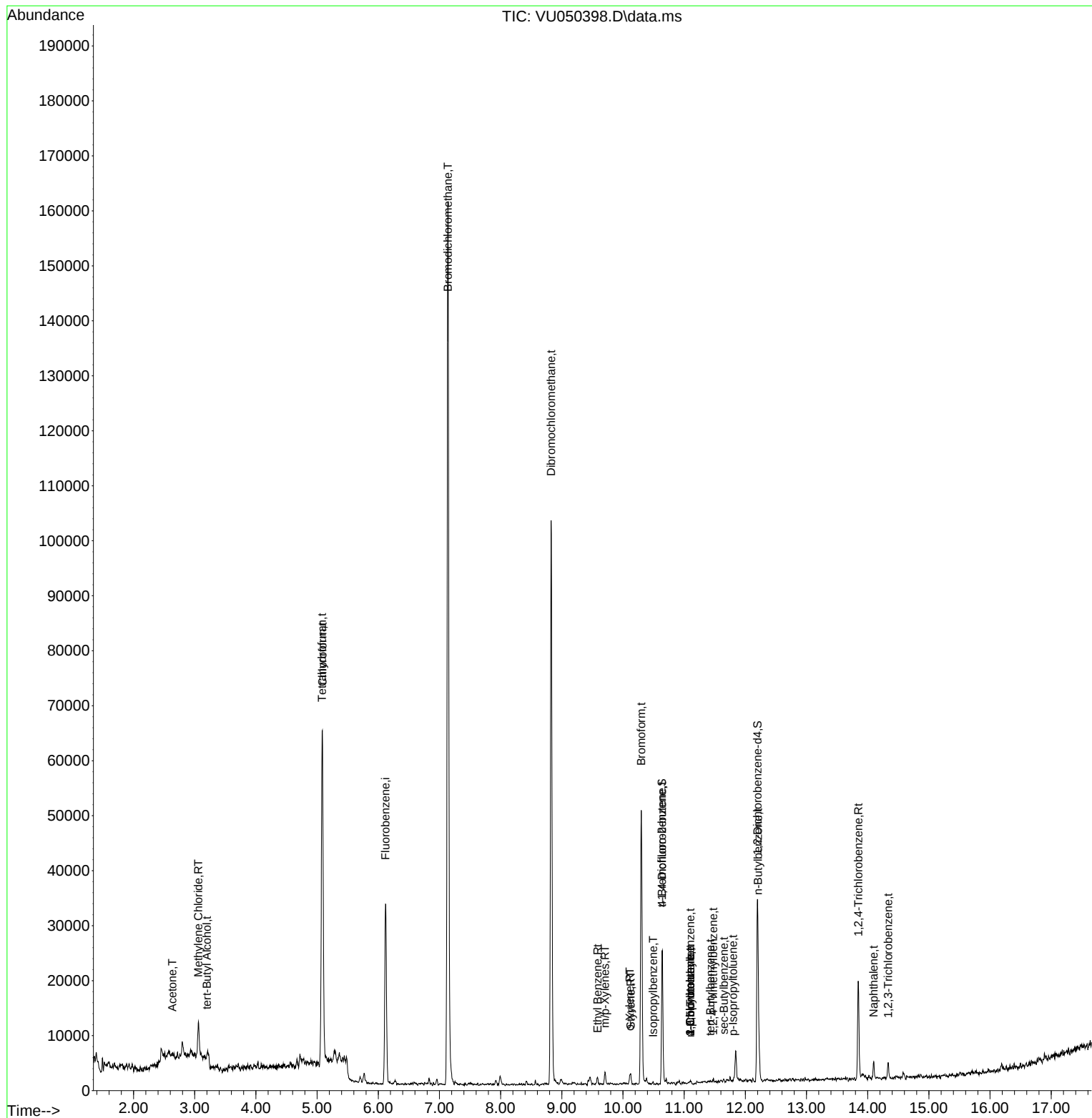
Internal Standards						
1) Fluorobenzene	6.118	96	31721	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	8437	0.781	ug/l	0.00
Spiked Amount 1.000			Recovery	=	78.000%	
68) 1,2-Dichlorobenzene-d4	12.198	152	10272	0.805	ug/l	0.00
Spiked Amount 1.000			Recovery	=	80.000%	
Target Compounds						
						Qvalue
13) Acetone	2.633	43	1025	0.523	ug/l	# 42
15) Methylene Chloride	3.061	84	2838	0.225	ug/l	85
24) tert-Butyl Alcohol	3.199	59	735	0.866	ug/l	# 73
27) Chloroform	5.086	83	52785	2.708	ug/l	99
41) Tetrahydrofuran	5.080	42	655	0.350	ug/l	# 60
44) Bromodichloromethane	7.138	83	109652	8.202	ug/l	99
46) t-1,4-Dichloro-2-butene	10.639	75	4335	1.767	ug/l	# 23
55) Dibromochloromethane	8.826	129	54605	5.961	ug/l	99
63) Ethyl Benzene	9.584	91	1222	0.595	ug/l	98
64) m/p-Xylenes	9.707	106	951	1.134	ug/l	# 68
65) o-Xylene	10.108	106	340	0.530	ug/l	78
66) Styrene	10.128	104	902	0.629	ug/l	# 82
67) Bromoform	10.298	173	23603	4.537	ug/l	99
69) Isopropylbenzene	10.494	105	255	0.575	ug/l	# 50
73) n-propylbenzene	11.099	120	20	0.594	ug/l	# 1
74) 2-Chlorotoluene	11.102	126	20	0.391	ug/l	# 1
75) 1,3,5-Trimethylbenzene	11.102	105	263	0.530	ug/l	# 41
76) 4-Chlorotoluene	11.102	126	20	0.403	ug/l	# 1
77) tert-Butylbenzene	11.427	119	205	0.499	ug/l	# 29
78) 1,2,4-Trimethylbenzene	11.475	105	365	0.574	ug/l	88
79) sec-Butylbenzene	11.649	105	307	0.554	ug/l	# 58
81) p-Isopropyltoluene	11.796	119	316	0.612	ug/l	# 50
84) n-Butylbenzene	12.208	91	1198	0.616	ug/l	# 79
87) 1,2,4-Trichlorobenzene	13.845	180	6315	0.558	ug/l	99
89) Naphthalene	14.099	128	3069	1.051	ug/l	# 90
90) 1,2,3-Trichlorobenzene	14.333	180	1037	0.560	ug/l	# 87

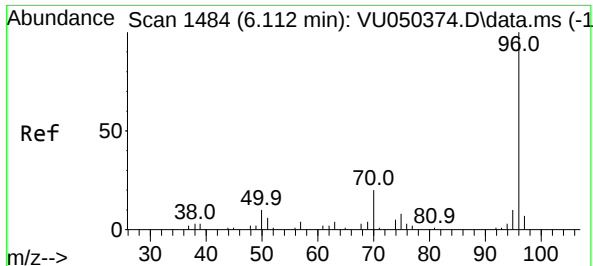
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 23 08:18:20 2022
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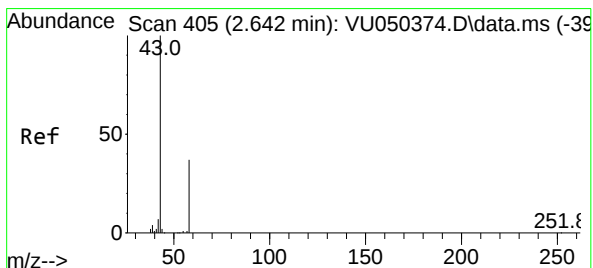
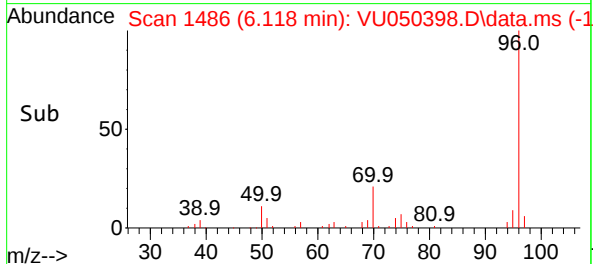
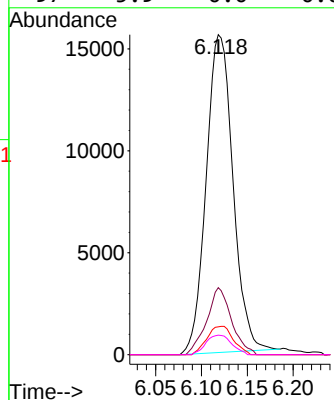
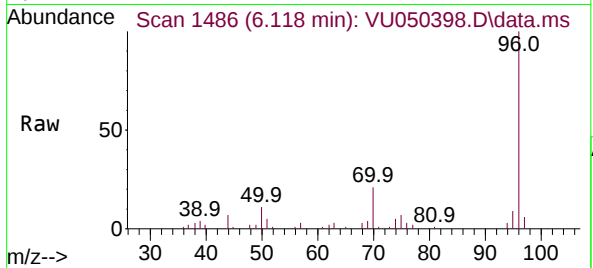




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 1486
Delta R.T. 0.003 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

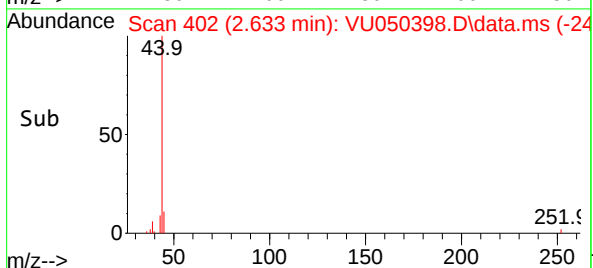
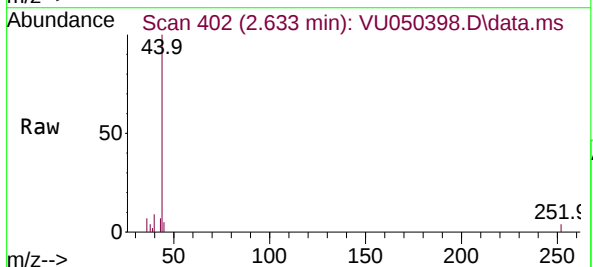
Instrument :
MSVOA_U
ClientSampleId :
WS-TRIS-THALOMETHANESDL

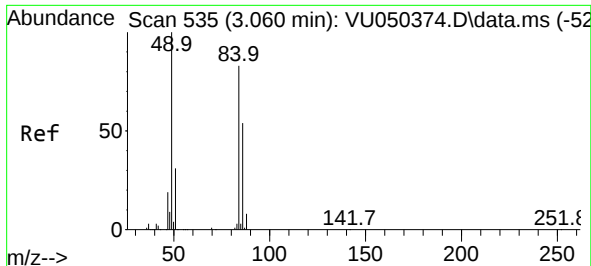
Tgt Ion: 96	Resp: 31721
Ion Ratio	Lower Upper
96 100	
70 19.5	16.7 25.1
95 8.8	7.4 11.0
97 5.9	0.0 0.0



#13
Acetone
Concen: 0.523 ug/l
RT: 2.633 min Scan# 402
Delta R.T. 0.007 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion: 43	Resp: 1025
Ion Ratio	Lower Upper
43 100	
58 0.0	26.2 39.2

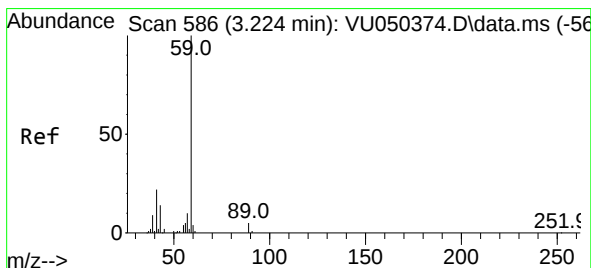
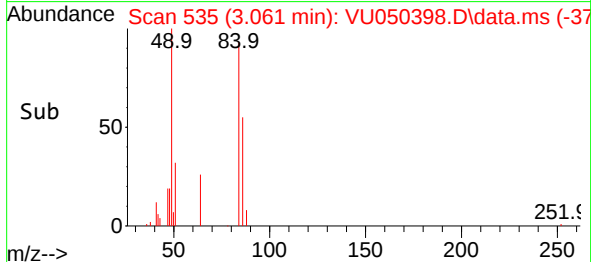
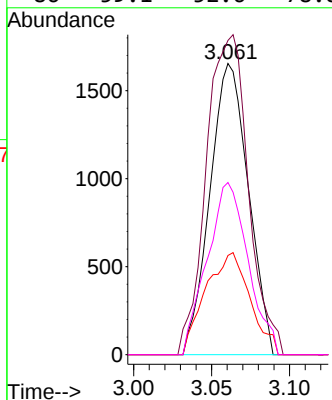
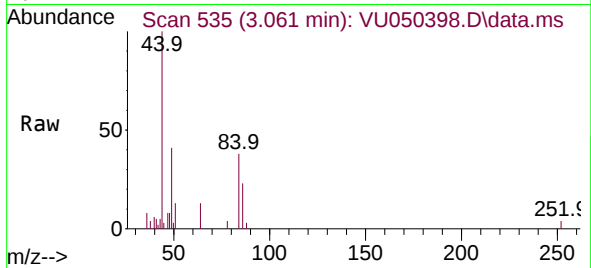




#15
Methylene Chloride
Concen: 0.225 ug/l
RT: 3.061 min Scan# 51
Delta R.T. 0.016 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

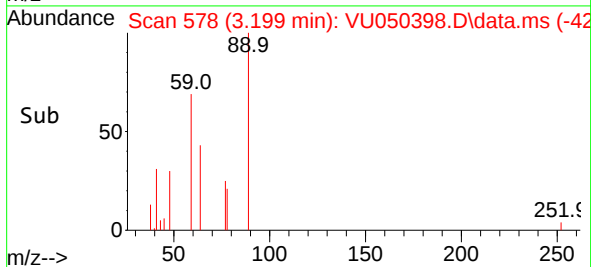
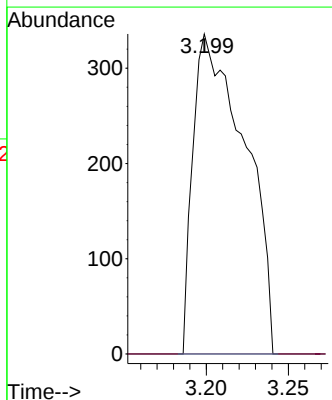
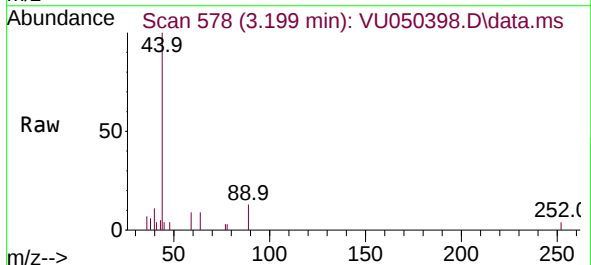
Instrument :
MSVOA_U
ClientSampleId :
WS-TRISALOMETHANESDL

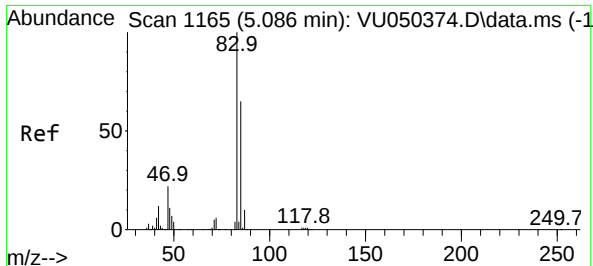
Tgt Ion:	84	Resp:	2838
Ion	Ratio	Lower	Upper
84	100		
49	107.9	104.6	157.0
51	34.0	0.0	81.4
86	59.1	52.6	78.8



#24
tert-Butyl Alcohol
Concen: 0.866 ug/l
RT: 3.199 min Scan# 578
Delta R.T. 0.004 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion:	59	Resp:	735
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2





#27

Chloroform

Concen: 2.708 ug/l

RT: 5.086 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VU050398.D

Acq: 22 Aug 2022 13:56

Instrument :

MSVOA_U

ClientSampleId :

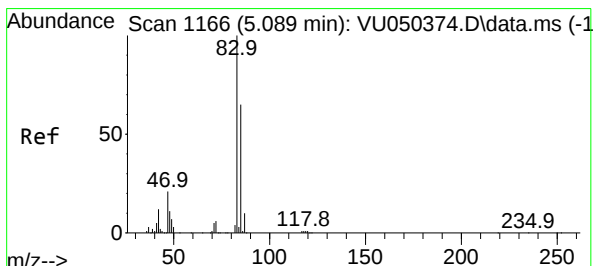
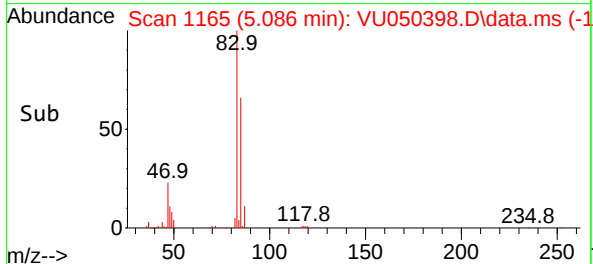
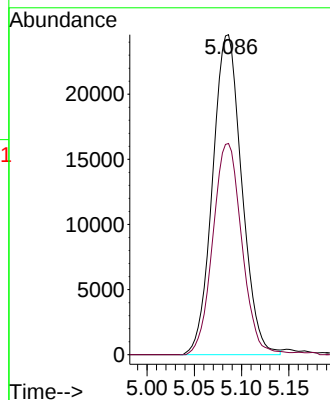
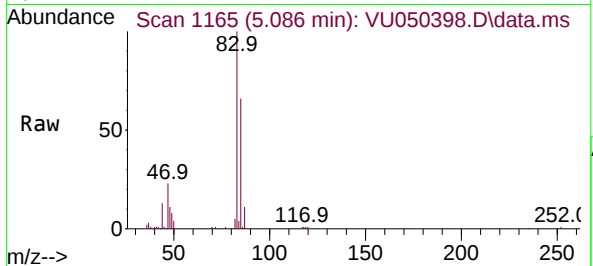
WS-TRIHALOMETHANESDL

Tgt Ion: 83 Resp: 52785

Ion Ratio Lower Upper

83 100

85 66.0 0.0 133.6



#41

Tetrahydrofuran

Concen: 0.350 ug/l

RT: 5.080 min Scan# 1163

Delta R.T. 0.013 min

Lab File: VU050398.D

Acq: 22 Aug 2022 13:56

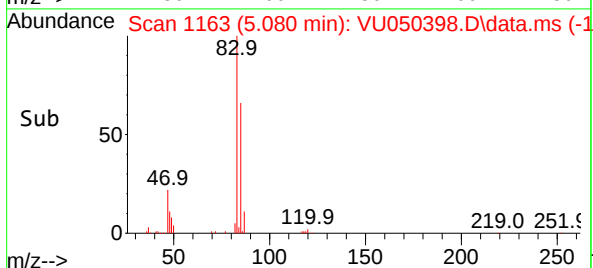
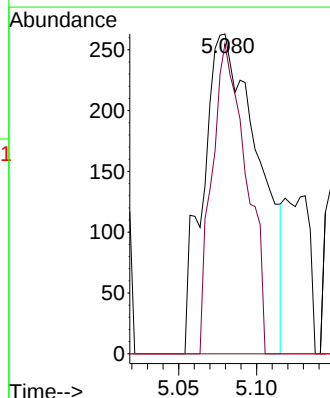
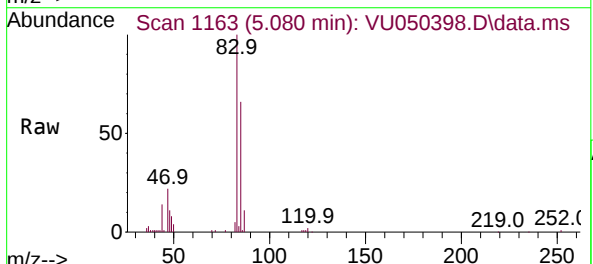
Tgt Ion: 42 Resp: 655

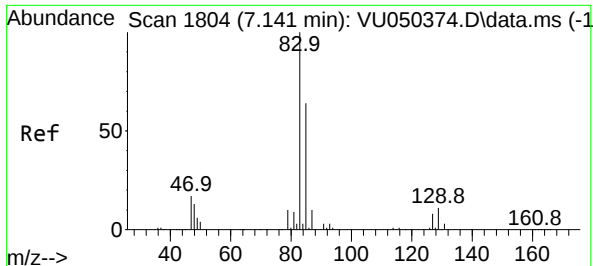
Ion Ratio Lower Upper

42 100

72 59.8 38.9 58.3#

71 0.0 33.7 50.5#

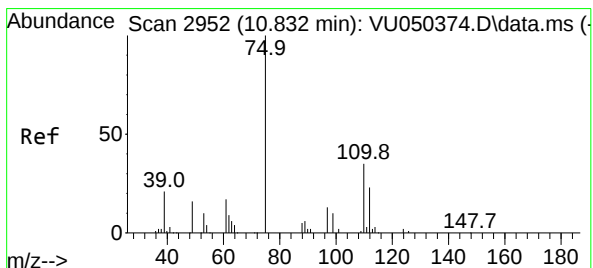
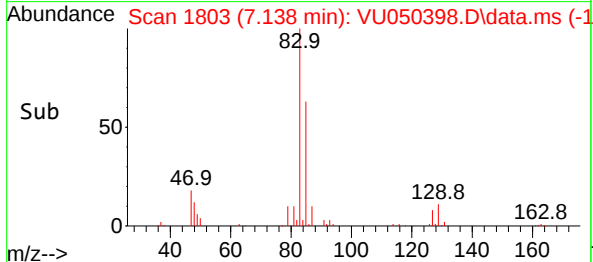
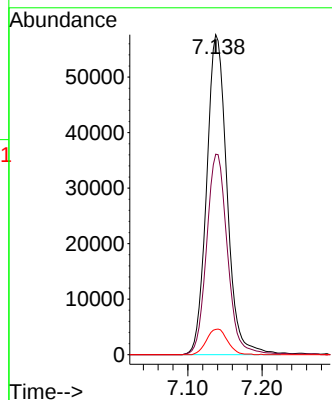
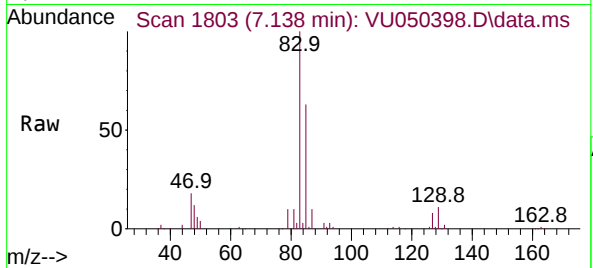




#44
Bromodichloromethane
Concen: 8.202 ug/l
RT: 7.138 min Scan# 11
Delta R.T. 0.029 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

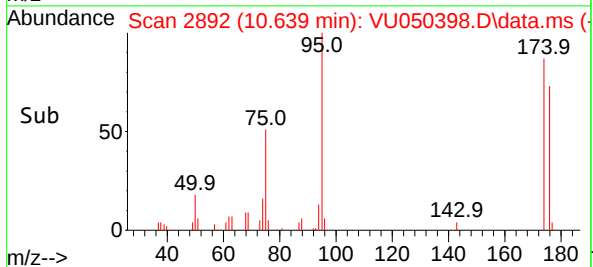
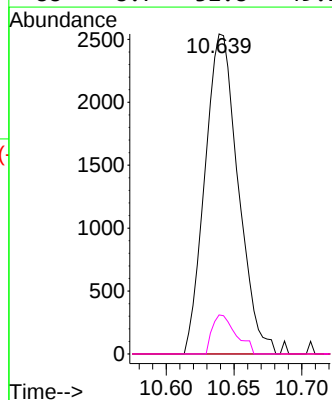
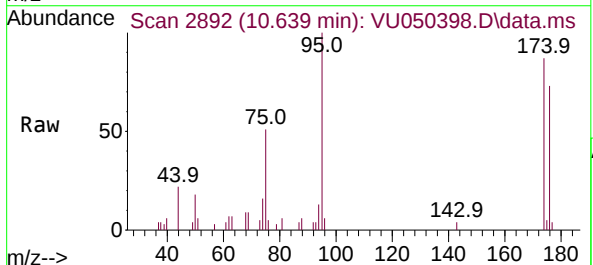
Instrument :
MSVOA_U
ClientSampleId :
WS-TRICHALOMETHANESDL

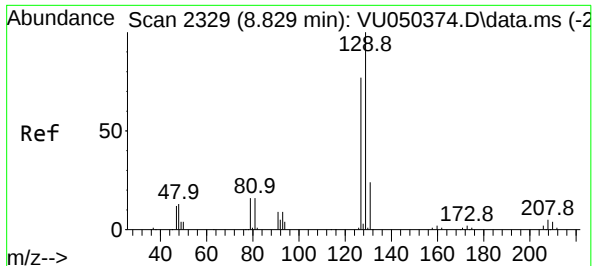
Tgt Ion: 83 Resp: 109652
Ion Ratio Lower Upper
83 100
85 62.6 49.4 74.0
127 7.9 6.6 10.0



#46
t-1,4-Dichloro-2-butene
Concen: 1.767 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.193 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion: 75 Resp: 4335
Ion Ratio Lower Upper
75 100
53 0.0 64.4 96.6#
89 0.0 44.2 66.2#
88 8.7 32.8 49.2#

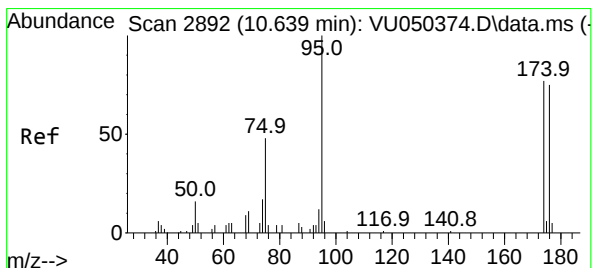
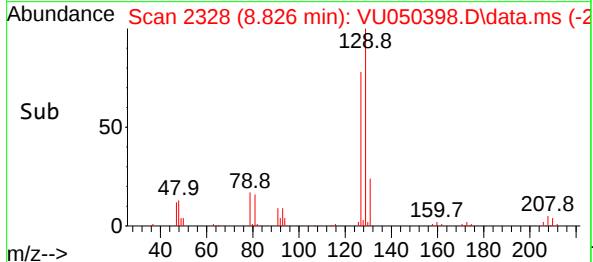
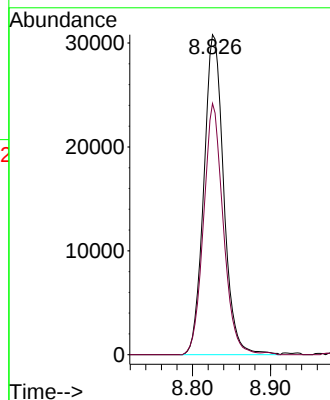
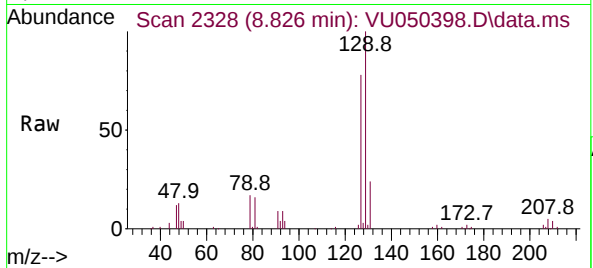




#55
Dibromochloromethane
Concen: 5.961 ug/l
RT: 8.826 min Scan# 21
Delta R.T. 0.013 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

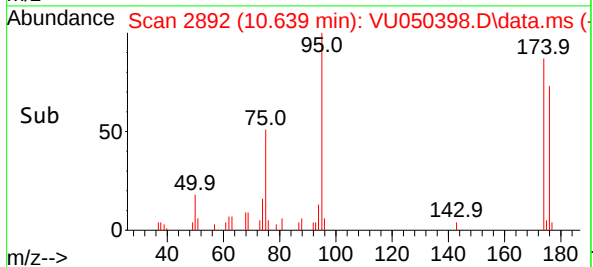
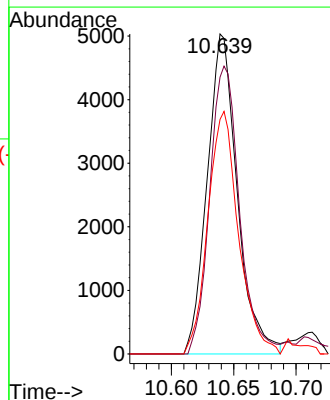
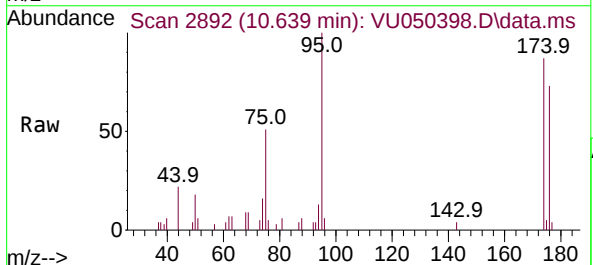
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ClientSampleId :
WS-TRIS-THALOMETHANESDL

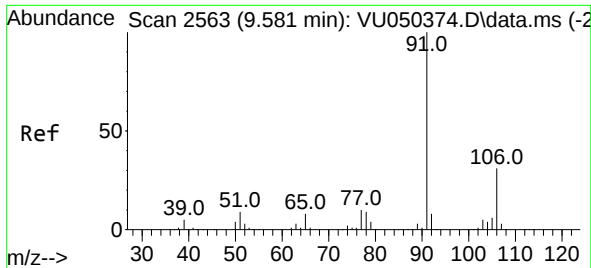
Tgt Ion:129 Resp: 54605
Ion Ratio Lower Upper
129 100
127 77.6 61.2 91.8



#57
4-Bromofluorobenzene
Concen: 0.781 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.007 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion: 95 Resp: 8437
Ion Ratio Lower Upper
95 100
174 89.5 62.4 93.6
176 77.2 56.2 84.2

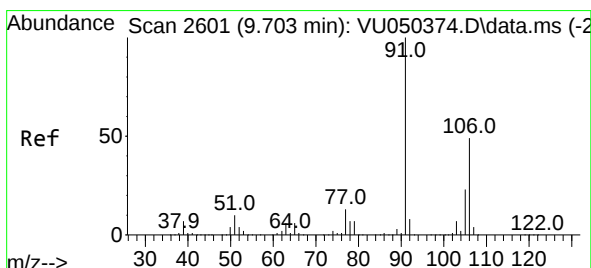
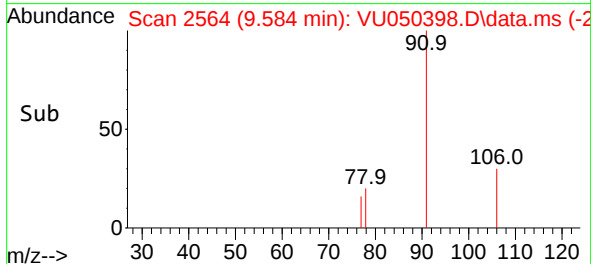
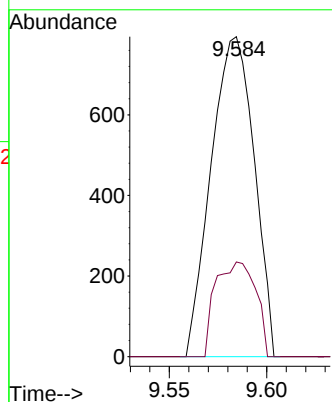
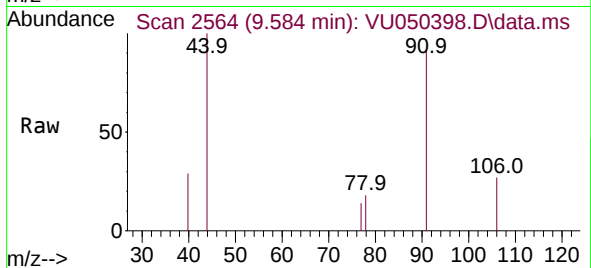




#63
Ethyl Benzene
Concen: 0.595 ug/l
RT: 9.584 min Scan# 21
Delta R.T. 0.013 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

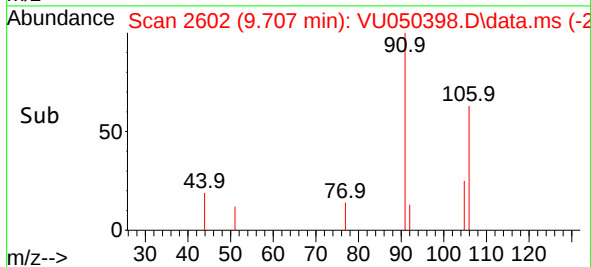
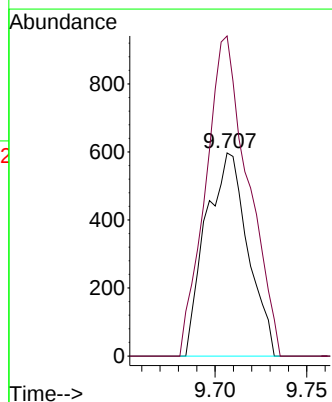
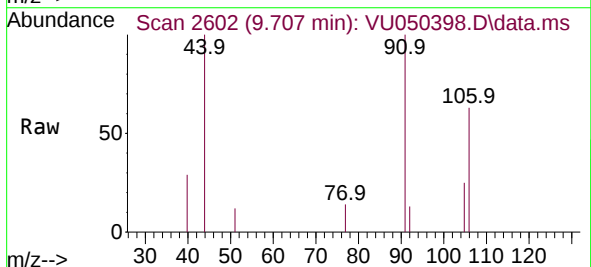
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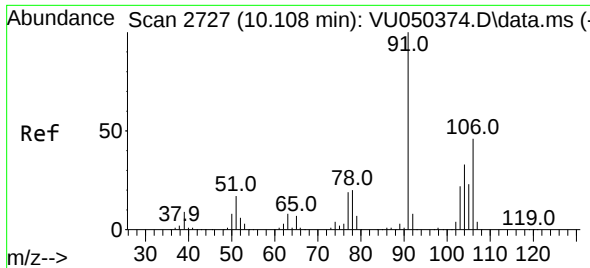
Tgt Ion: 91 Resp: 1222
Ion Ratio Lower Upper
91 100
106 29.6 24.4 36.6



#64
m/p-Xylenes
Concen: 1.134 ug/l
RT: 9.707 min Scan# 2602
Delta R.T. 0.013 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion: 106 Resp: 951
Ion Ratio Lower Upper
106 100
91 159.4 167.8 251.6#

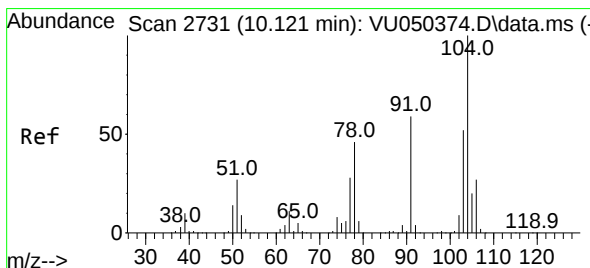
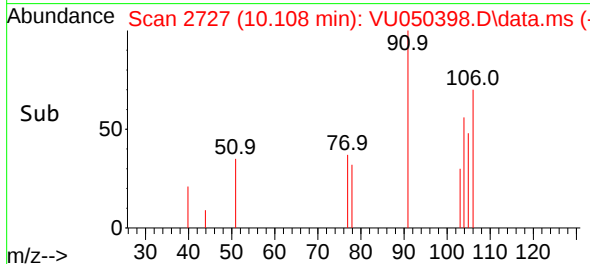
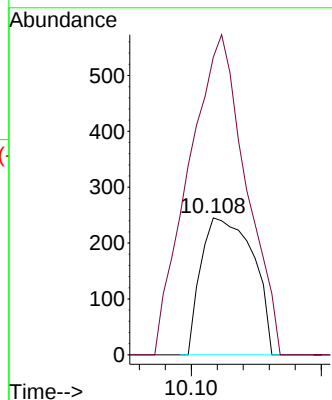
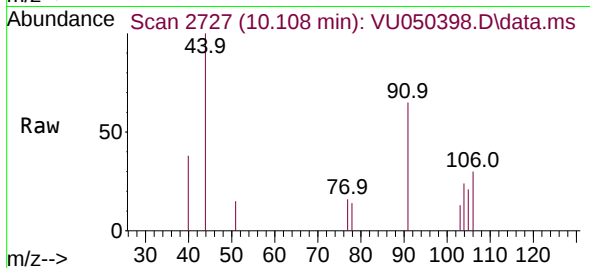




#65
o-Xylene
Concen: 0.530 ug/l
RT: 10.108 min Scan# 2727
Delta R.T. 0.007 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

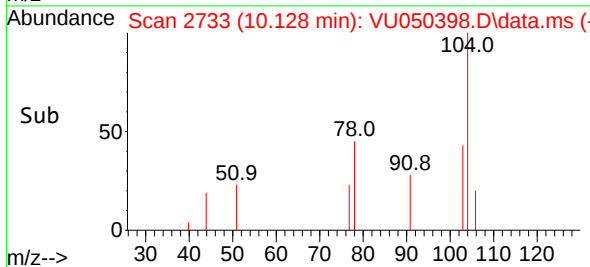
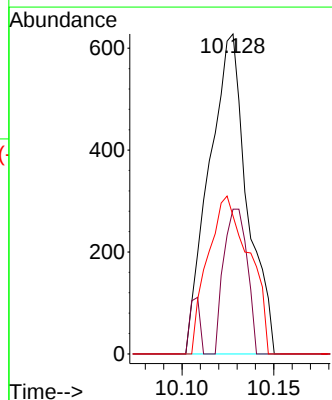
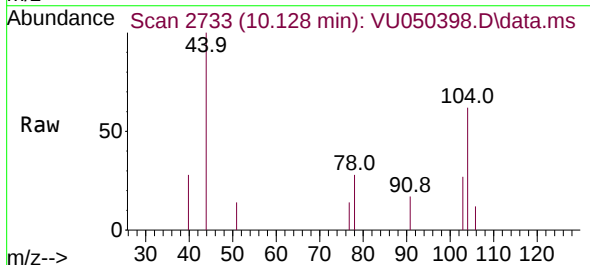
Instrument :
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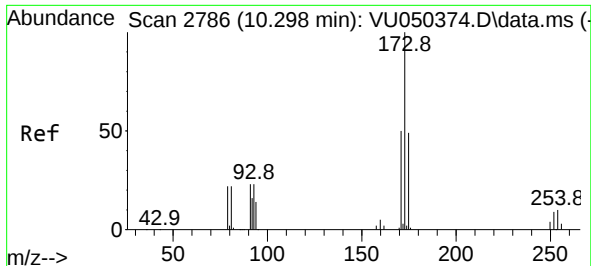
Tgt Ion:106 Resp: 340
Ion Ratio Lower Upper
106 100
91 257.9 111.1 333.2



#66
Styrene
Concen: 0.629 ug/l
RT: 10.128 min Scan# 2733
Delta R.T. 0.013 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion:104 Resp: 902
Ion Ratio Lower Upper
104 100
78 27.8 42.1 63.1#
103 53.9 44.5 66.7

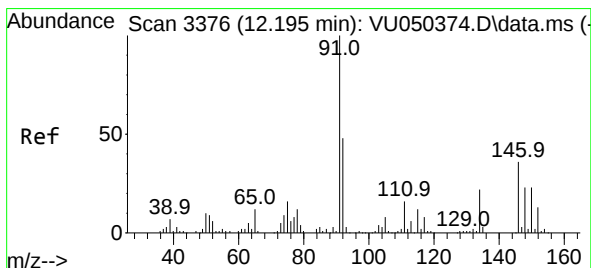
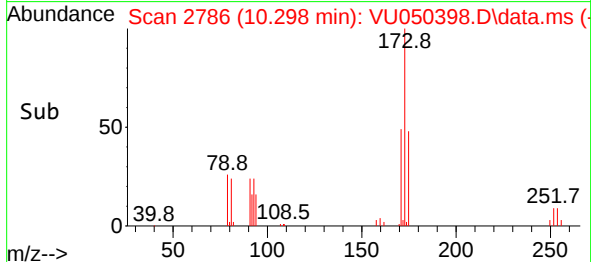
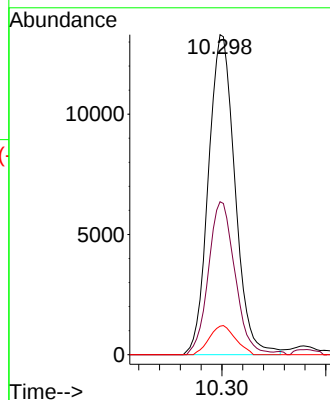
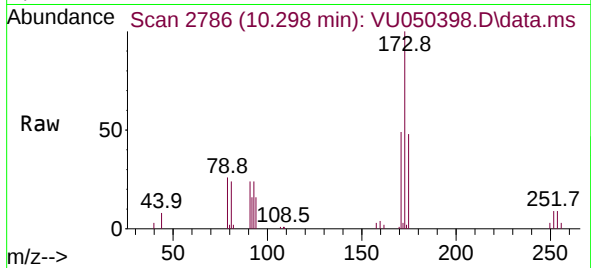




#67
Bromoform
Concen: 4.537 ug/l
RT: 10.298 min Scan# 21
Delta R.T. 0.007 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

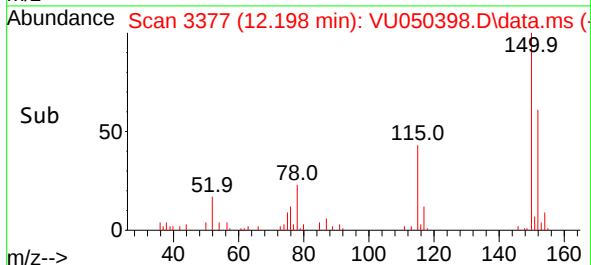
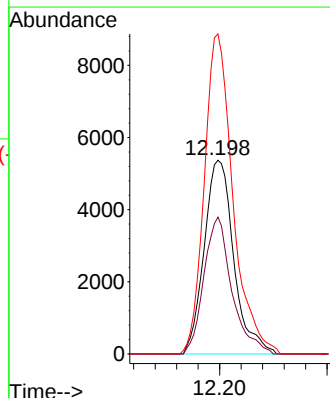
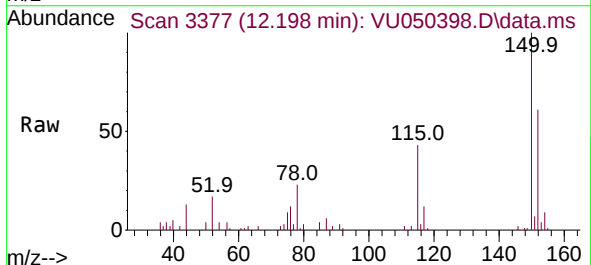
Instrument :
MSVOA_U
ClientSampleId :
WS-TRIS-TRICHLOROMETHANESDL

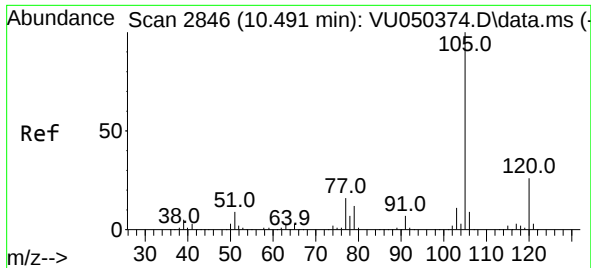
Tgt Ion:	173	Resp:	23603
Ion Ratio	Lower	Upper	
173	100		
175	47.7	38.4	57.6
254	8.9	7.7	11.5



#68
1,2-Dichlorobenzene-d4
Concen: 0.805 ug/l
RT: 12.198 min Scan# 3377
Delta R.T. 0.004 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion:	152	Resp:	10272
Ion Ratio	Lower	Upper	
152	100		
115	66.8	0.0	254.6
150	159.9	0.0	623.6

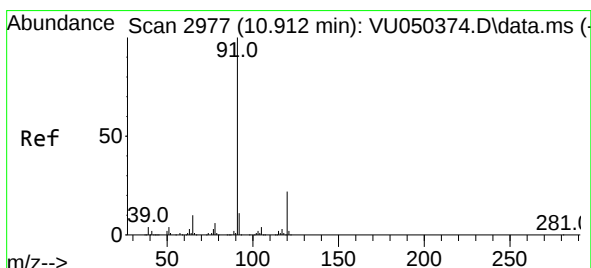
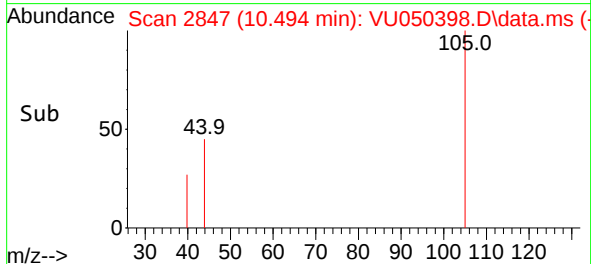
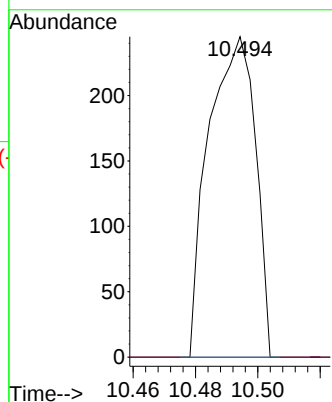
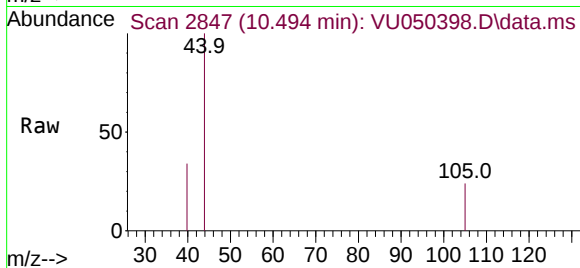




#69
Isopropylbenzene
Concen: 0.575 ug/l
RT: 10.494 min Scan# 21
Delta R.T. 0.010 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

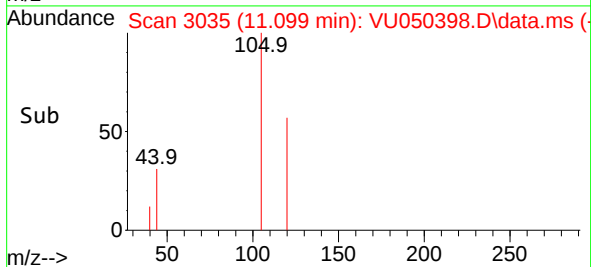
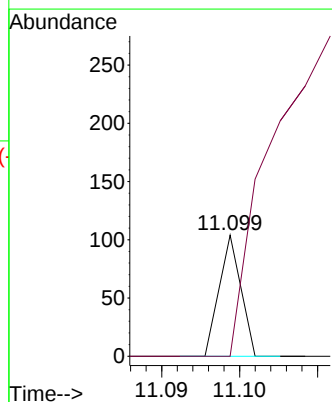
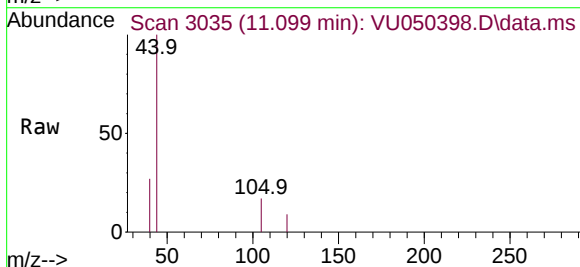
Instrument :
MSVOA_U
ClientSampleId :
WS-TRIS-THALOMETHANESDL

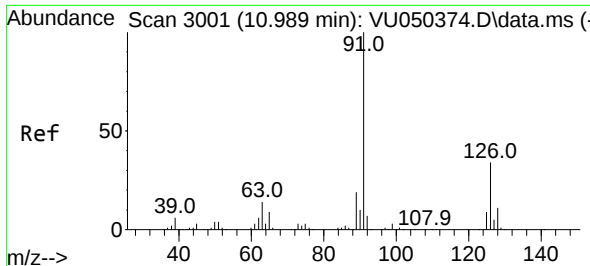
Tgt Ion:105 Resp: 255
Ion Ratio Lower Upper
105 100
120 0.0 12.6 37.8#



#73
n-propylbenzene
Concen: 0.594 ug/l
RT: 11.099 min Scan# 3035
Delta R.T. 0.193 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion:120 Resp: 20
Ion Ratio Lower Upper
120 100
91 1425.0 367.8 551.6#

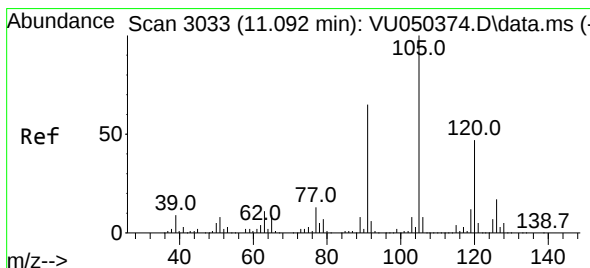
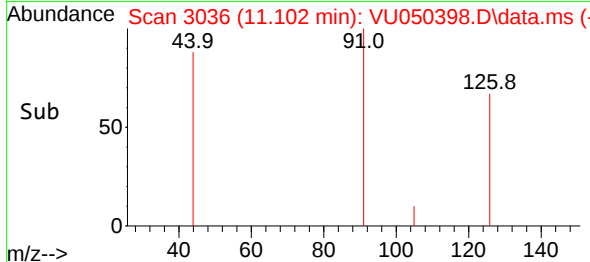
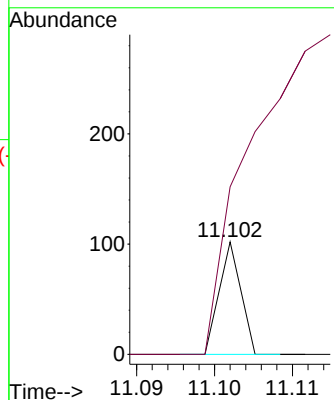
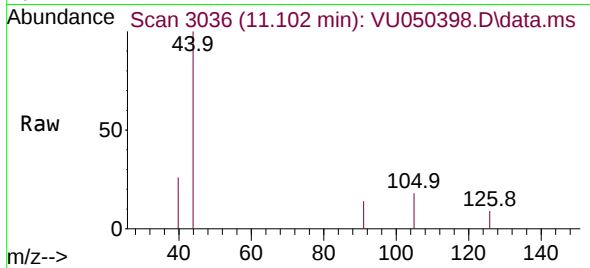




#74
2-Chlorotoluene
Concen: 0.391 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.116 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

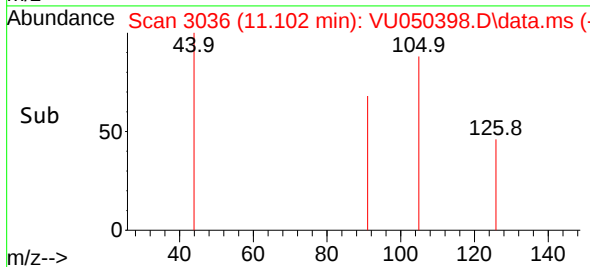
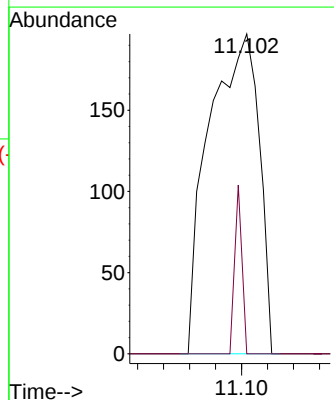
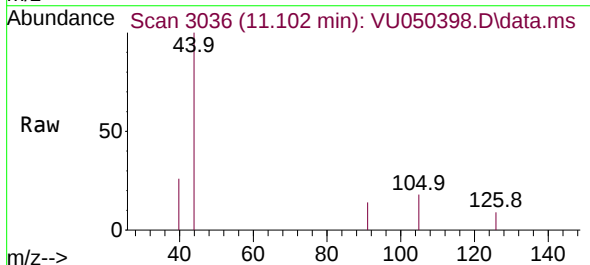
Instrument :
MSVOA_U
ClientSampleId :
WS-TRIS-THALOMETHANESDL

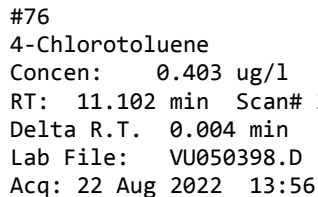
Tgt Ion:126 Resp: 20
Ion Ratio Lower Upper
126 100
91 1425.0 0.0 620.6#



#75
1,3,5-Trimethylbenzene
Concen: 0.530 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.013 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

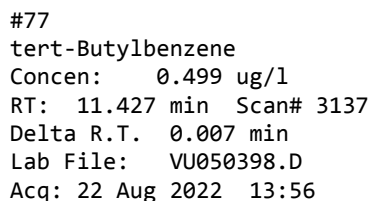
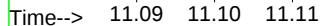
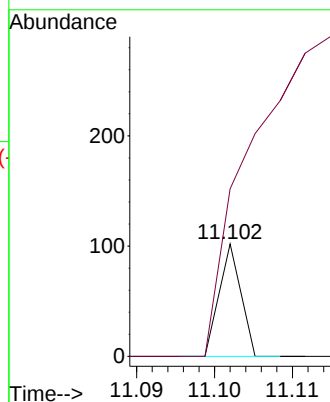
Tgt Ion:105 Resp: 263
Ion Ratio Lower Upper
105 100
120 7.6 37.6 56.4#



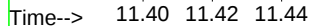
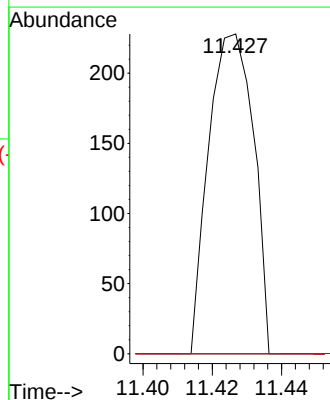


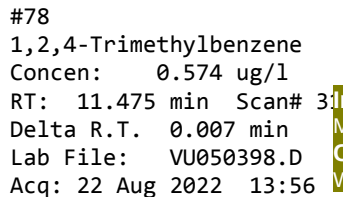
Instrument :
MSVOA_U
ClientSampleId :
WS-TRihalOMETHANESDL

Tgt Ion:126	Resp:	20	
Ion Ratio	Lower	Upper	
126	100		
91	1425.0	0.0	738.8#



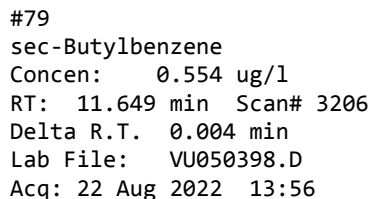
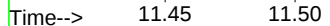
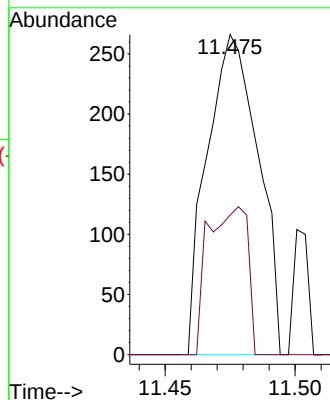
Tgt Ion:119	Resp: 205
Ion Ratio	Lower Upper
119 100	
91 0.0	30.4 91.3#
134 0.0	17.8 26.6#



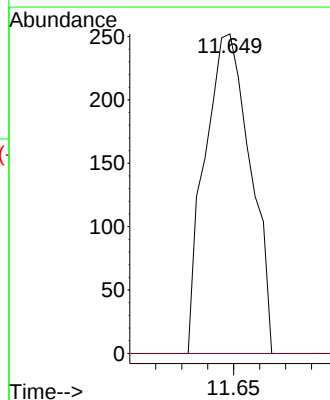


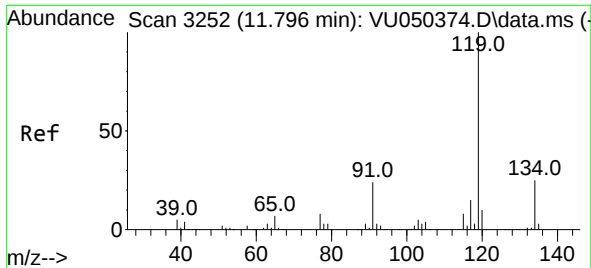
Instrument :
MSVOA_U
ClientSampleId :
WS-TRISALOMETHANESDL

Tgt	Ion:105	Resp:	365
Ion	Ratio	Lower	Upper
105	100		
120	35.6	21.6	65.0



Tgt	Ion:105	Resp:	307
Ion	Ratio	Lower	Upper
105	100		
134	0.0	15.4	23.0#

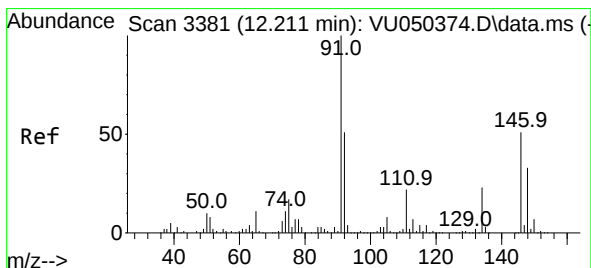
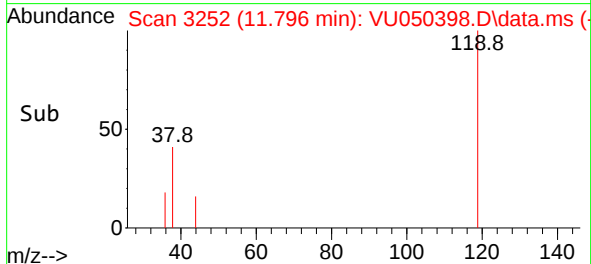
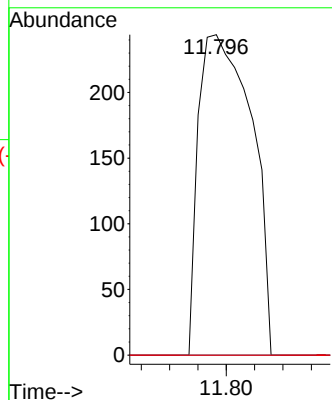
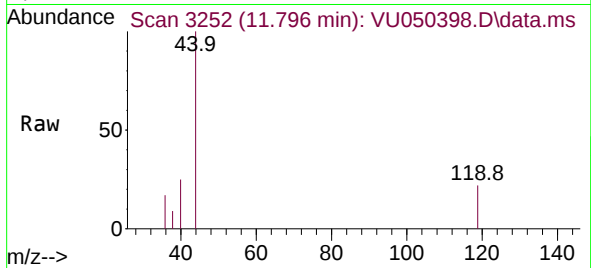




#81
p-Isopropyltoluene
Concen: 0.612 ug/l
RT: 11.796 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

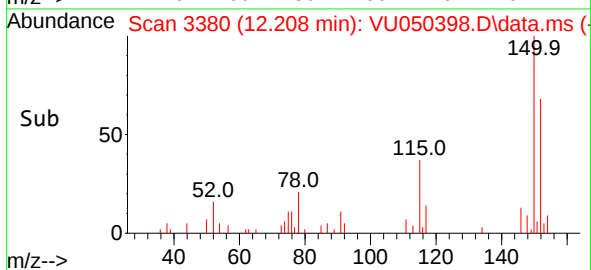
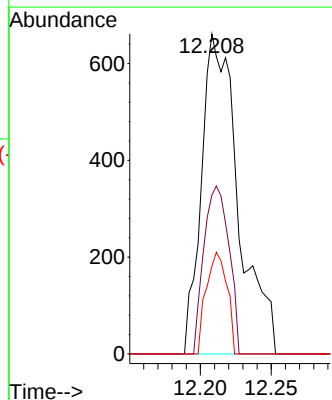
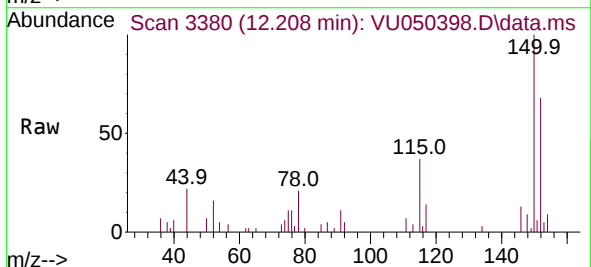
Instrument :
MSVOA_U
ClientSampleId :
WS-TRISALOMETHANESDL

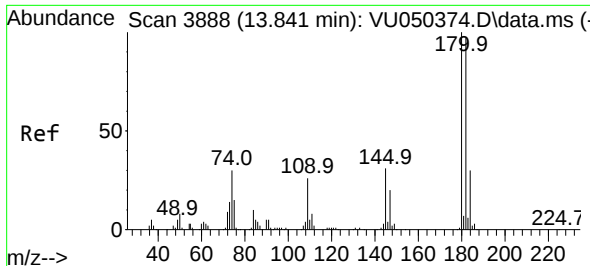
Tgt Ion:119 Resp: 316
Ion Ratio Lower Upper
119 100
134 0.0 20.5 30.7#
91 0.0 19.8 29.6#



#84
n-Butylbenzene
Concen: 0.616 ug/l
RT: 12.208 min Scan# 3380
Delta R.T. -0.003 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion: 91 Resp: 1198
Ion Ratio Lower Upper
91 100
92 35.6 42.3 63.5#
134 17.8 19.6 29.4#

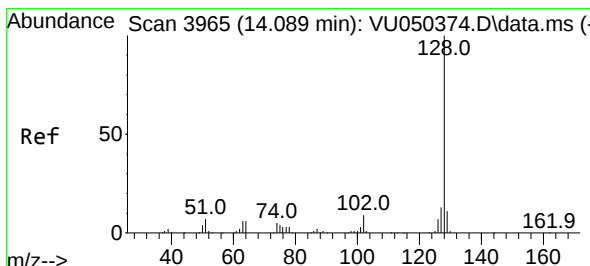
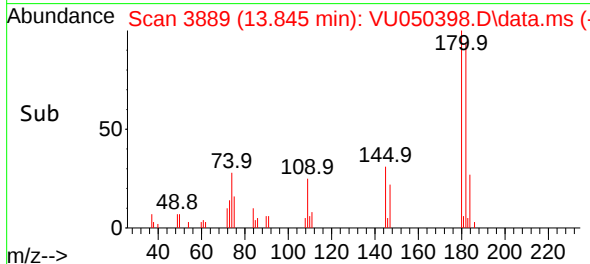
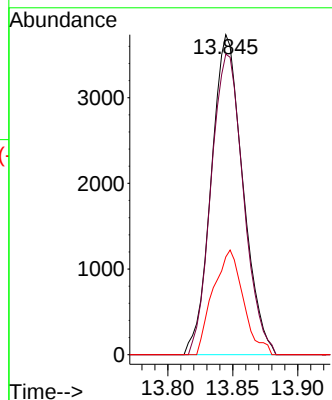
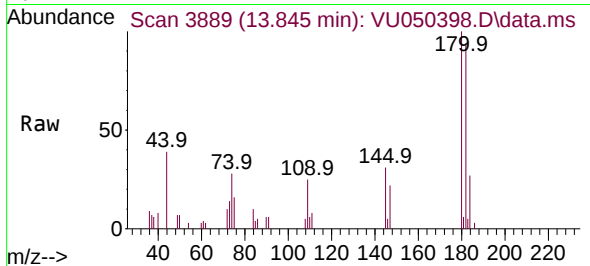




#87
1,2,4-Trichlorobenzene
Concen: 0.558 ug/l
RT: 13.845 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

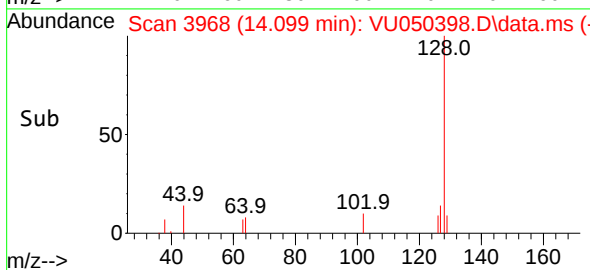
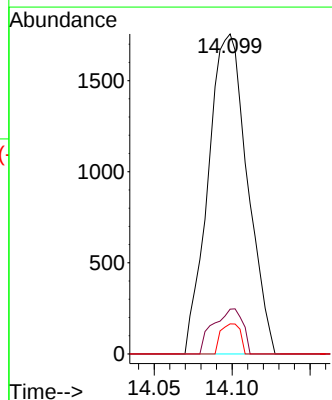
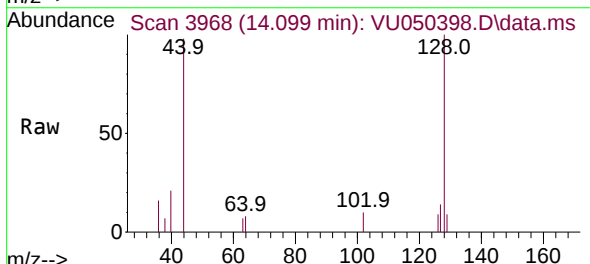
Instrument :
MSVOA_U
ClientSampleId :
WS-TRIS-TRICHALOMETHANESDL

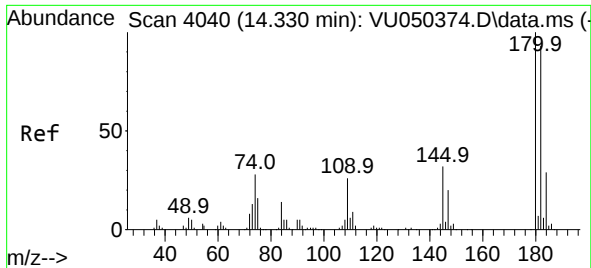
Tgt Ion:	180	Resp:	6315
Ion Ratio	Lower	Upper	
180	100		
182	95.7	77.0	115.6
145	31.2	25.7	38.5



#89
Naphthalene
Concen: 1.051 ug/l
RT: 14.099 min Scan# 3968
Delta R.T. 0.010 min
Lab File: VU050398.D
Acq: 22 Aug 2022 13:56

Tgt Ion:	128	Resp:	3069
Ion Ratio	Lower	Upper	
128	100		
127	10.6	10.1	15.1
129	4.6	8.6	12.8#





#90

1,2,3-Trichlorobenzene

Concen: 0.560 ug/l

RT: 14.333 min Scan# 40

Delta R.T. 0.004 min

Lab File: VU050398.D

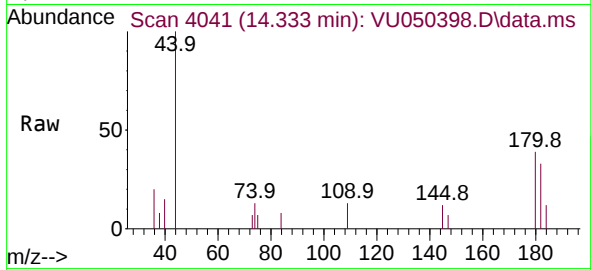
Acq: 22 Aug 2022 13:56

Instrument :

MSVOA_U

ClientSampleId :

WS-TRIS-TRICHLOROMETHANESDL



Tgt Ion:180 Resp: 1037

Ion Ratio Lower Upper

180 100

182 89.3 76.6 114.8

145 16.3 27.3 40.9#

