

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072723\
 Data File : VU054894.D
 Acq On : 27 Jul 2023 13:29
 Operator : MD/SY
 Sample : 03587-07DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Quant Time: Jul 28 05:44:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Jul 26 09:45:35 2023
 Response via : Initial Calibration

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

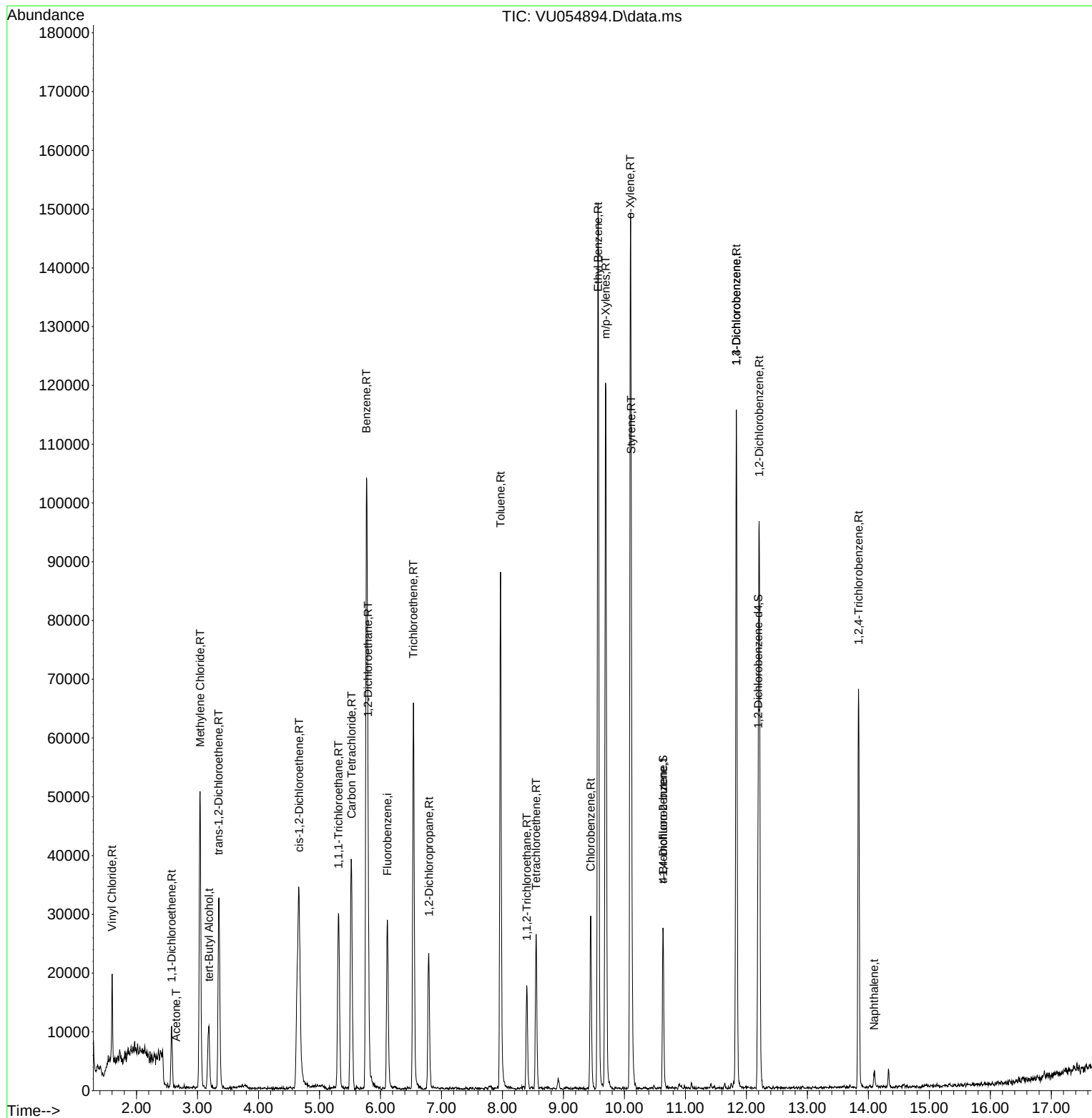
Internal Standards						
1) Fluorobenzene	6.113	96	27663	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	8326	0.993	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	9696	1.023	ug/l	0.00
Spiked Amount 1.000			Recovery	=	102.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.599	62	9348	1.183	ug/l	95
9) 1,1-Dichloroethene	2.576	96	3605	0.755	ug/l	97
13) Acetone	2.650	43	375	0.299	ug/l #	37
15) Methylene Chloride	3.042	84	24465	3.983	ug/l	99
16) trans-1,2-Dichloroethene	3.348	96	14453	2.780	ug/l	95
22) cis-1,2-Dichloroethene	4.666	96	12241	1.772	ug/l	96
24) tert-Butyl Alcohol	3.187	59	6148	9.379	ug/l #	92
28) 1,1,1-Trichloroethane	5.312	97	22423	2.079	ug/l	95
30) Carbon Tetrachloride	5.525	117	25846	2.871	ug/l	98
35) Benzene	5.772	78	92087	3.696	ug/l	98
36) 1,2-Dichloroethane	5.795	62	26301	3.711	ug/l	100
37) Trichloroethene	6.541	130	21963	3.278	ug/l	99
38) 1,2-Dichloropropane	6.795	63	9072	1.288	ug/l	96
46) t-1,4-Dichloro-2-butene	10.634	75	4708	3.031	ug/l #	22
49) Toluene	7.968	92	38403	2.420	ug/l	94
52) 1,1,2-Trichloroethane	8.399	97	5619	1.071	ug/l #	72
58) Tetrachloroethene	8.553	164	6011	1.028	ug/l	93
59) Chlorobenzene	9.447	112	16932	0.879	ug/l	97
63) Ethyl Benzene	9.569	91	113283	3.505	ug/l	99
64) m/p-Xylenes	9.692	106	36561	3.024	ug/l	97
65) o-Xylene	10.097	106	36164	2.912	ug/l	97
66) Styrene	10.113	104	26142	1.316	ug/l	88
82) 1,3-Dichlorobenzene	11.836	146	47251	2.990	ug/l	99
83) 1,4-Dichlorobenzene	11.836	146	47251	2.999	ug/l	100
85) 1,2-Dichlorobenzene	12.209	146	34865	2.301	ug/l	100
87) 1,2,4-Trichlorobenzene	13.839	180	19701	2.039	ug/l	97
89) Naphthalene	14.093	128	3036	0.203	ug/l #	90

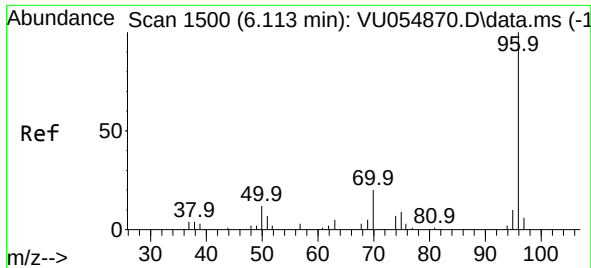
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 26 09:45:35 2023
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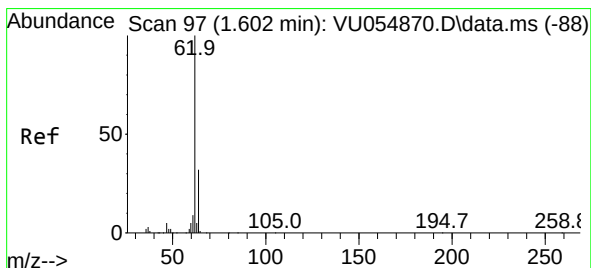
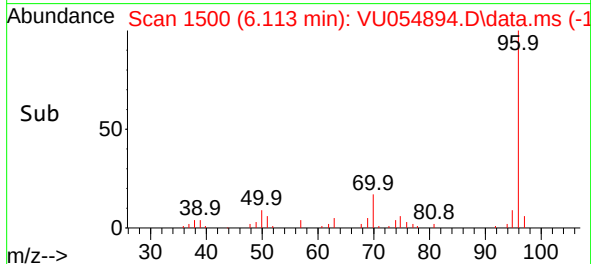
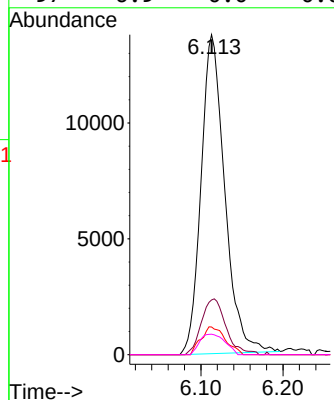
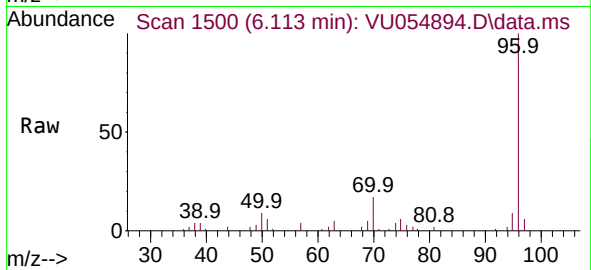




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

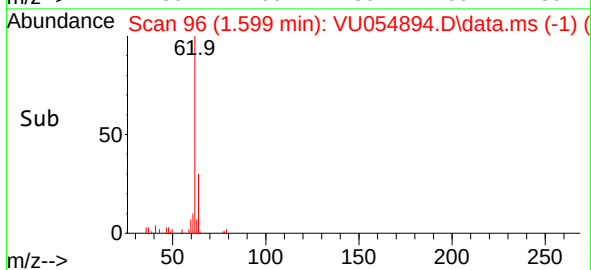
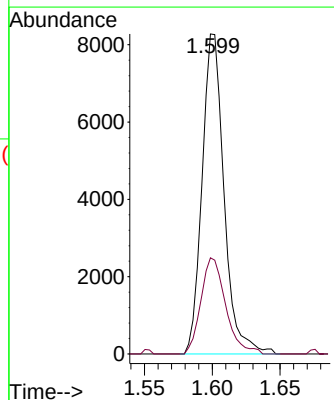
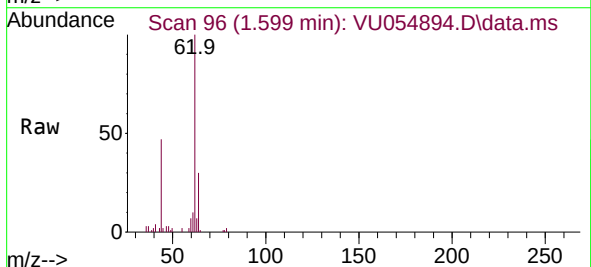
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

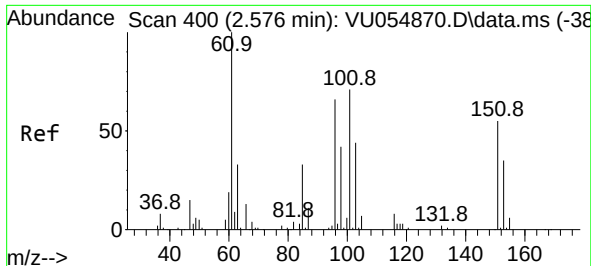
Tgt Ion:	96	Resp:	27663
Ion	Ratio	Lower	Upper
96	100		
70	18.1	14.0	21.0
95	9.0	8.7	13.1
97	6.9	0.0	0.0



#4
Vinyl Chloride
Concen: 1.183 ug/l
RT: 1.599 min Scan# 96
Delta R.T. -0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion:	62	Resp:	9348
Ion	Ratio	Lower	Upper
62	100		
64	30.1	26.4	39.6



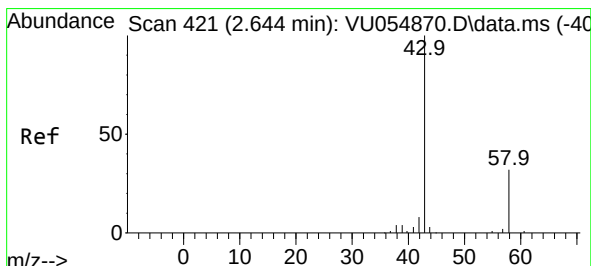
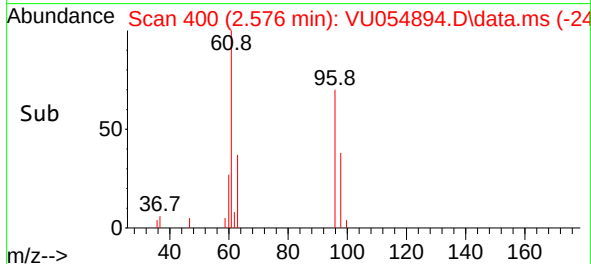
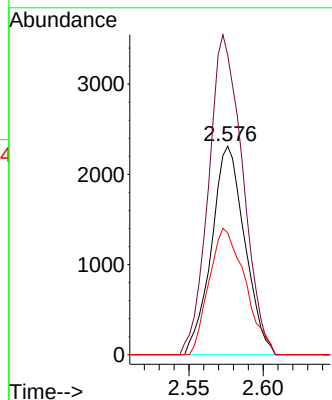
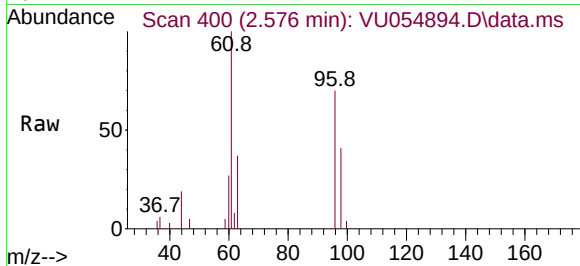


#9
 1,1-Dichloroethene
 Concen: 0.755 ug/l
 RT: 2.576 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: VU054894.D
 Acq: 27 Jul 2023 13:29

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tgt Ion: 96 Resp: 3605

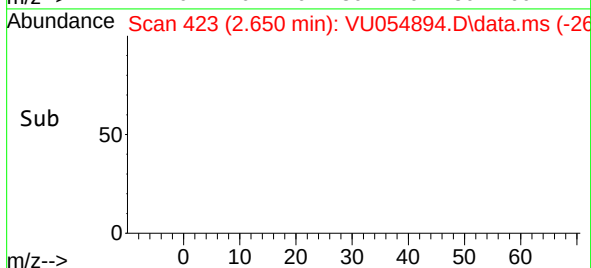
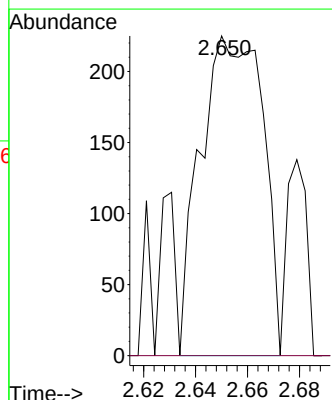
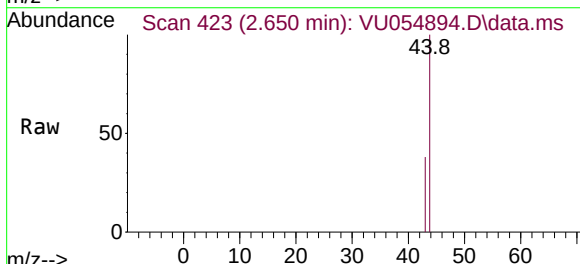
Ion	Ratio	Lower	Upper
96	100		
61	143.6	0.0	440.1
98	58.4	0.0	121.8

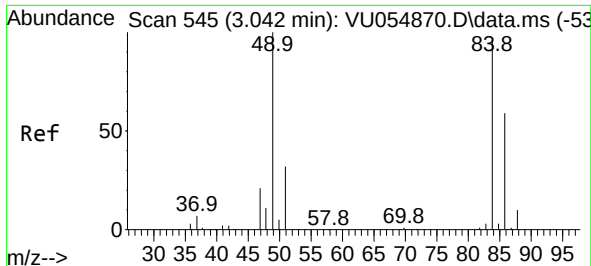


#13
 Acetone
 Concen: 0.299 ug/l
 RT: 2.650 min Scan# 423
 Delta R.T. 0.006 min
 Lab File: VU054894.D
 Acq: 27 Jul 2023 13:29

Tgt Ion: 43 Resp: 375

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.7	46.1#

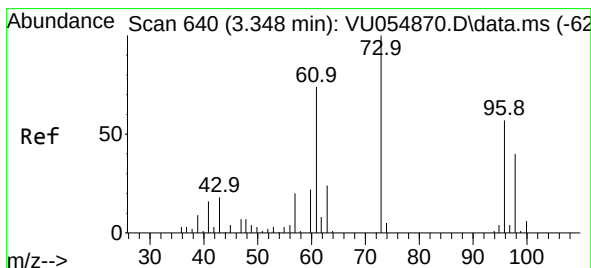
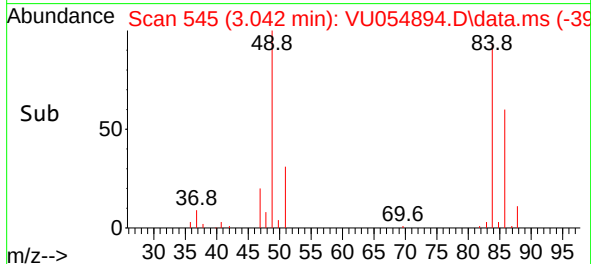
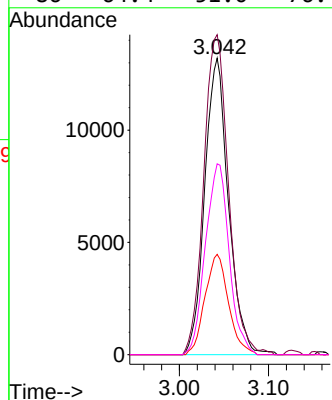
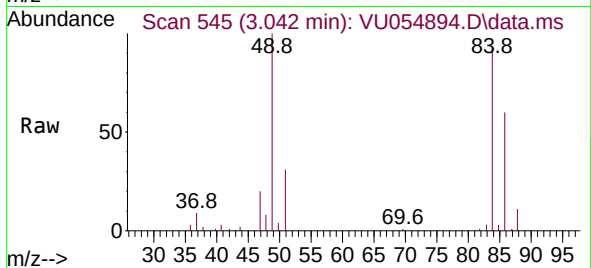




#15
Methylene Chloride
Concen: 3.983 ug/l
RT: 3.042 min Scan# 54
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

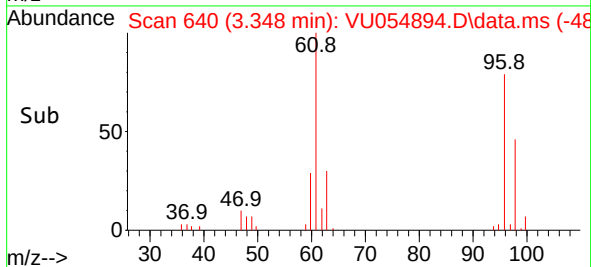
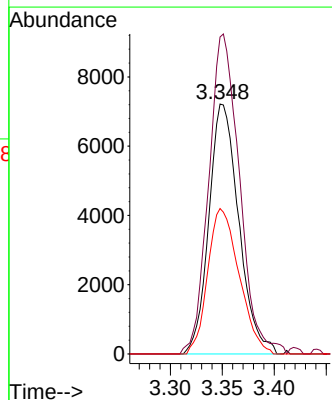
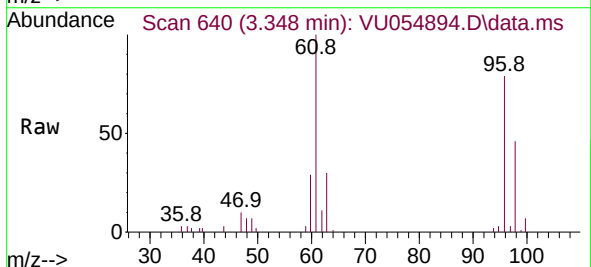
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

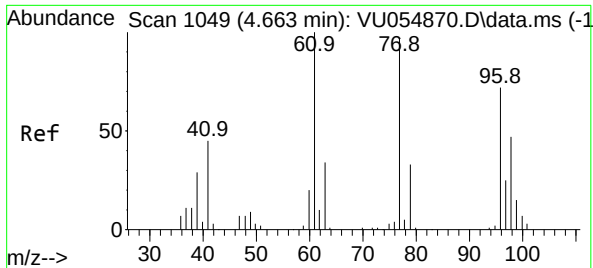
Tgt Ion: 84	Resp: 24465
Ion Ratio	Lower Upper
84 100	
49 107.9	87.8 131.6
51 33.8	0.0 68.2
86 64.4	51.0 76.4



#16
trans-1,2-Dichloroethene
Concen: 2.780 ug/l
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion: 96	Resp: 14453
Ion Ratio	Lower Upper
96 100	
61 126.8	96.4 144.6
98 58.2	49.3 73.9



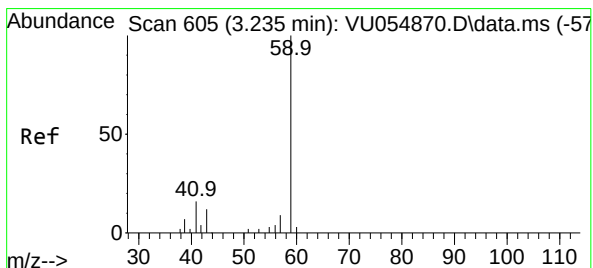
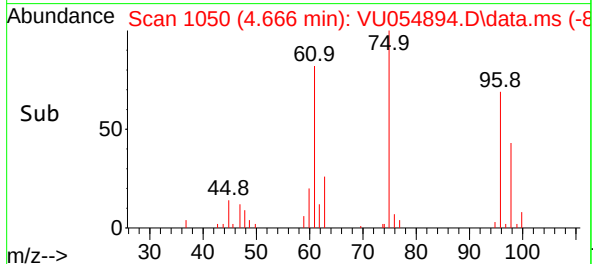
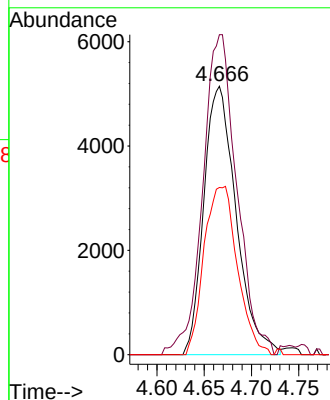
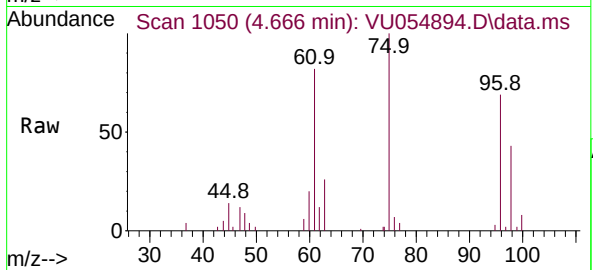


#22
 cis-1,2-Dichloroethene
 Concen: 1.772 ug/l
 RT: 4.666 min Scan# 1049
 Delta R.T. 0.003 min
 Lab File: VU054894.D
 Acq: 27 Jul 2023 13:29

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tgt Ion: 96 Resp: 12241

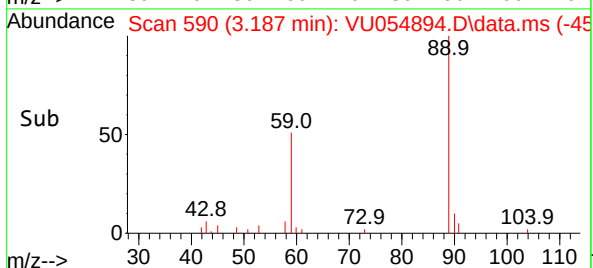
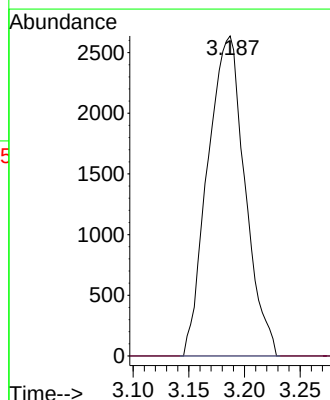
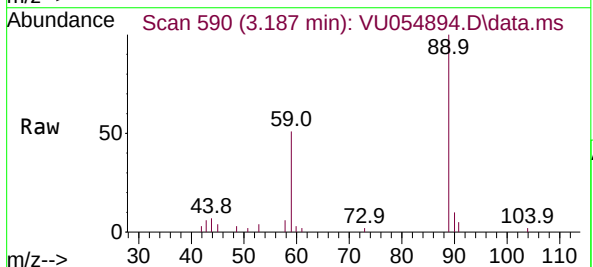
Ion	Ratio	Lower	Upper
96	100		
61	125.4	0.0	332.0
98	64.4	32.5	97.5

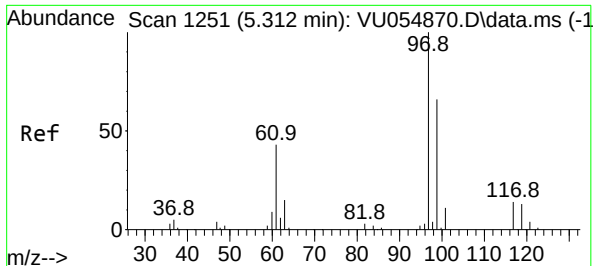


#24
 tert-Butyl Alcohol
 Concen: 9.379 ug/l
 RT: 3.187 min Scan# 590
 Delta R.T. -0.048 min
 Lab File: VU054894.D
 Acq: 27 Jul 2023 13:29

Tgt Ion: 59 Resp: 6148

Ion	Ratio	Lower	Upper
59	100		
57	0.0	2.2	3.2#





#28

1,1,1-Trichloroethane

Concen: 2.079 ug/l

RT: 5.312 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

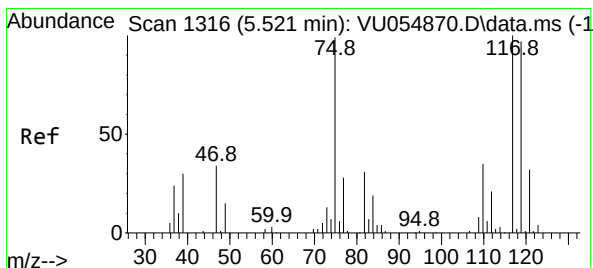
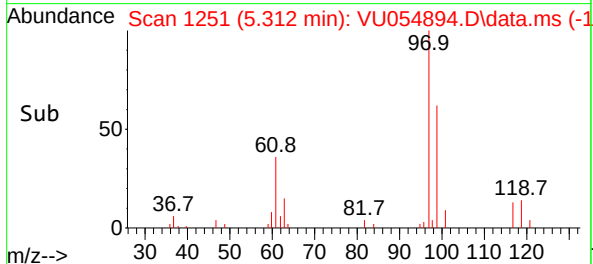
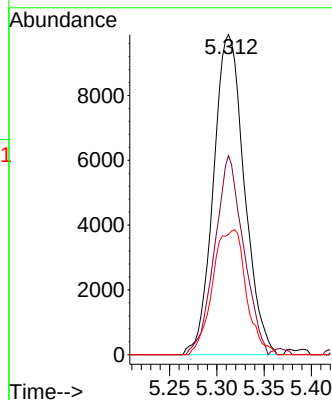
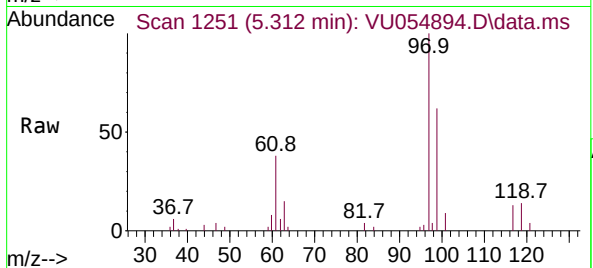
Tgt Ion: 97 Resp: 22423

Ion Ratio Lower Upper

97 100

99 58.2 32.0 96.2

61 42.3 21.0 63.0



#30

Carbon Tetrachloride

Concen: 2.871 ug/l

RT: 5.525 min Scan# 1317

Delta R.T. 0.003 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

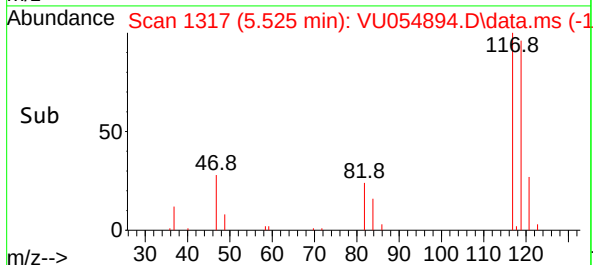
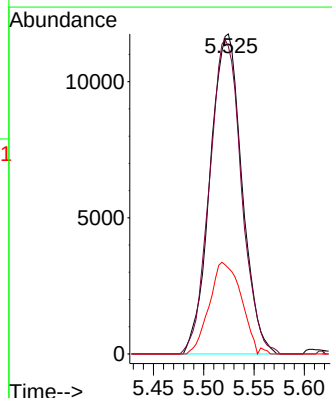
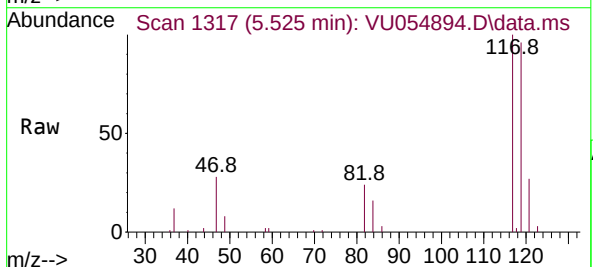
Tgt Ion: 117 Resp: 25846

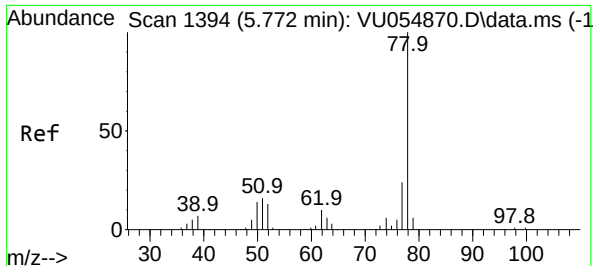
Ion Ratio Lower Upper

117 100

119 94.1 75.6 113.4

121 26.3 23.4 35.0

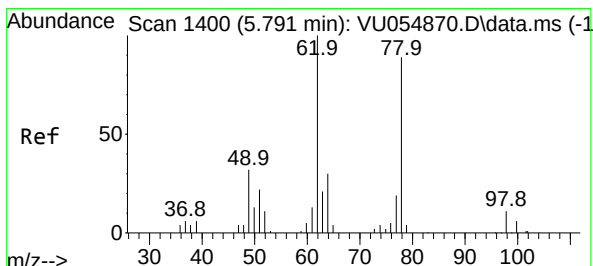
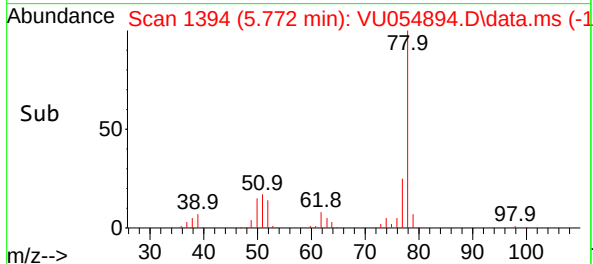
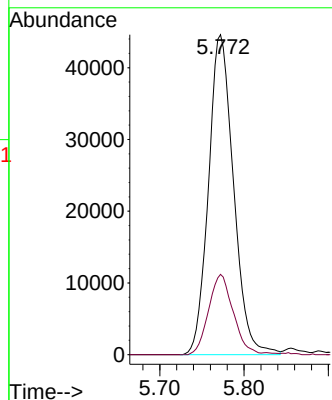
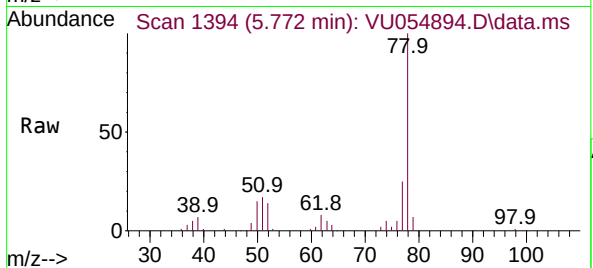




#35
Benzene
Concen: 3.696 ug/l
RT: 5.772 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

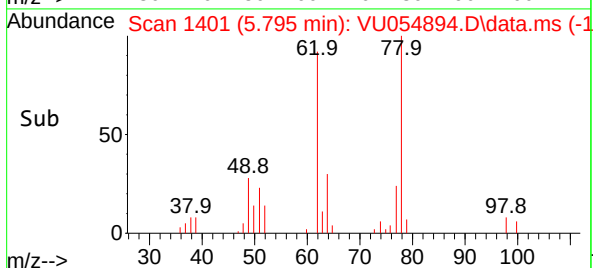
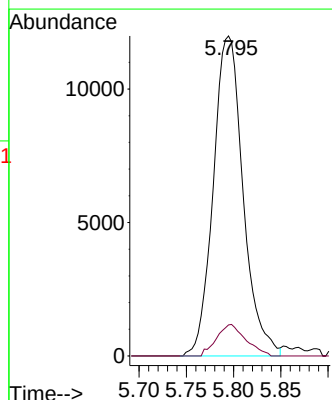
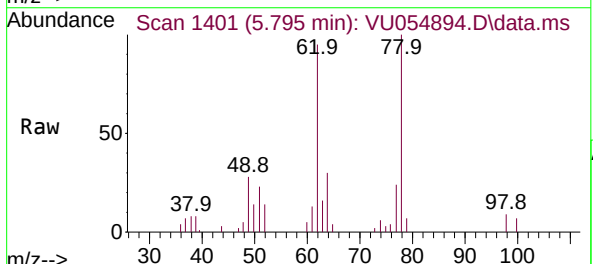
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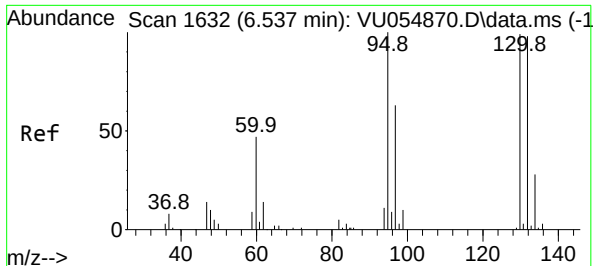
Tgt Ion: 78 Resp: 92087
Ion Ratio Lower Upper
78 100
77 25.1 19.4 29.2



#36
1,2-Dichloroethane
Concen: 3.711 ug/l
RT: 5.795 min Scan# 1401
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion: 62 Resp: 26301
Ion Ratio Lower Upper
62 100
98 9.6 7.8 11.8





#37

Trichloroethene

Concen: 3.278 ug/l

RT: 6.541 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

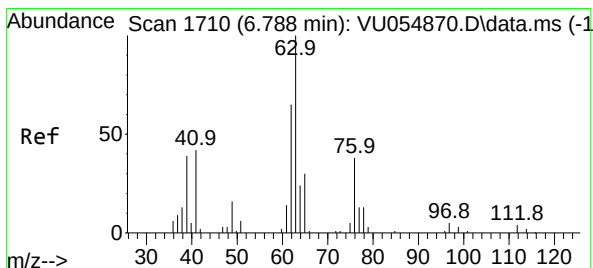
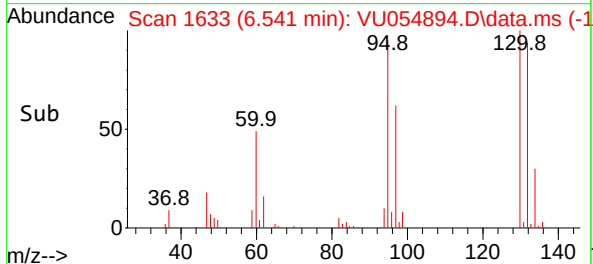
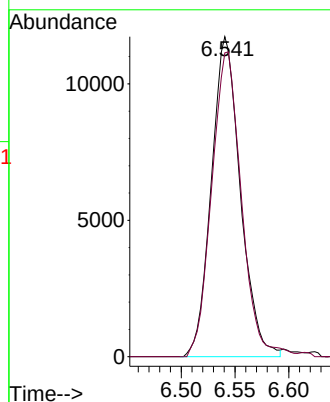
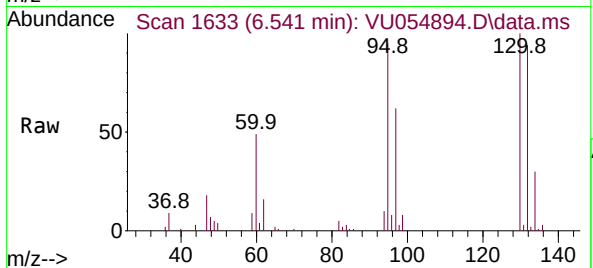
PT-RVOA-WSDL

Tgt Ion:130 Resp: 21963

Ion Ratio Lower Upper

130 100

95 94.9 76.8 115.2



#38

1,2-Dichloropropane

Concen: 1.288 ug/l

RT: 6.795 min Scan# 1712

Delta R.T. 0.006 min

Lab File: VU054894.D

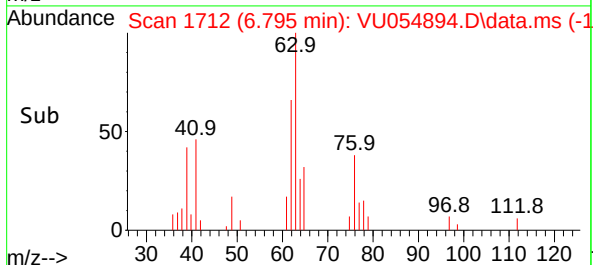
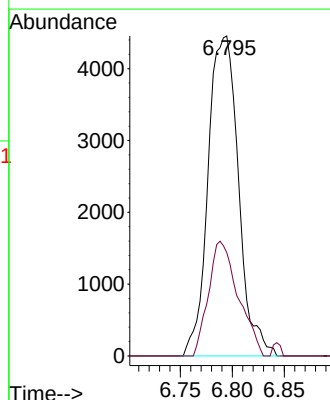
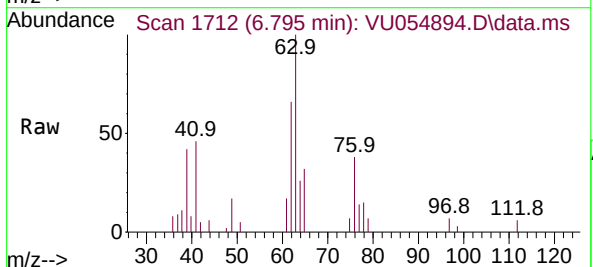
Acq: 27 Jul 2023 13:29

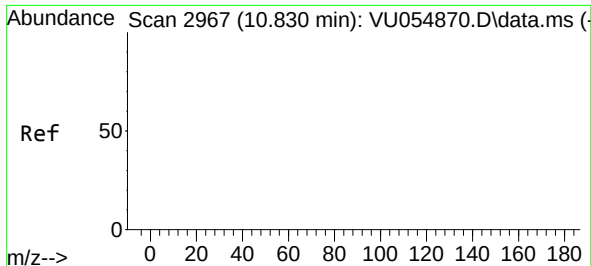
Tgt Ion: 63 Resp: 9072

Ion Ratio Lower Upper

63 100

65 32.3 24.3 36.5

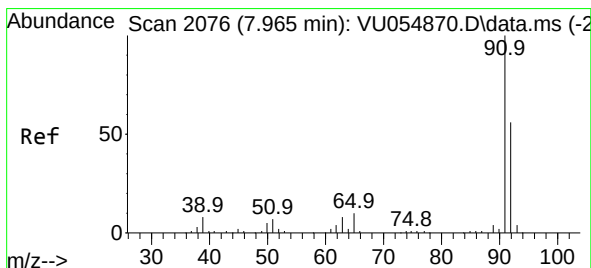
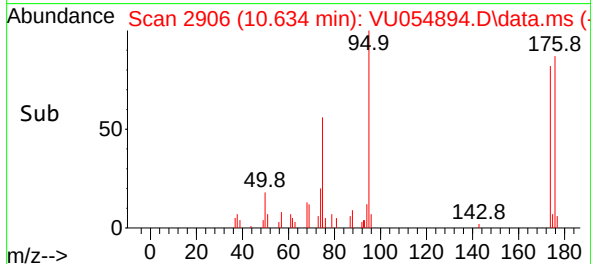
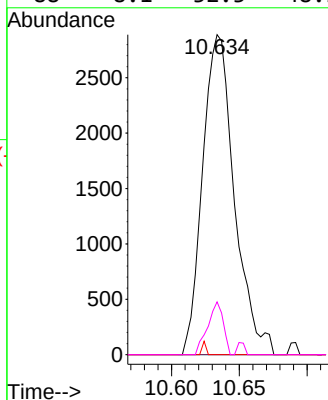
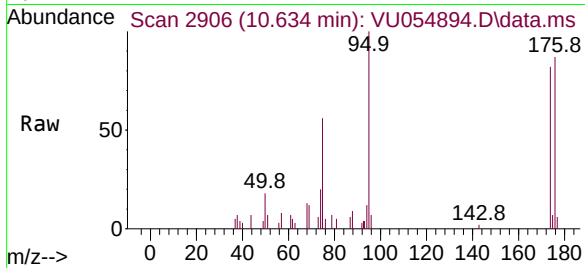




#46
t-1,4-Dichloro-2-butene
Concen: 3.031 ug/l
RT: 10.634 min Scan# 2967
Delta R.T. -0.196 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

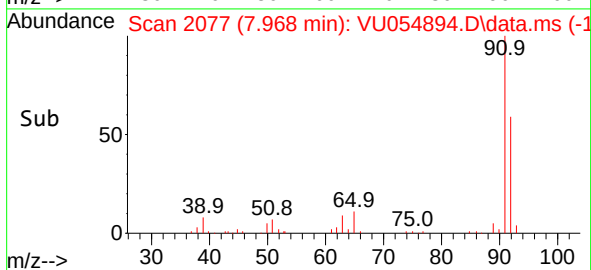
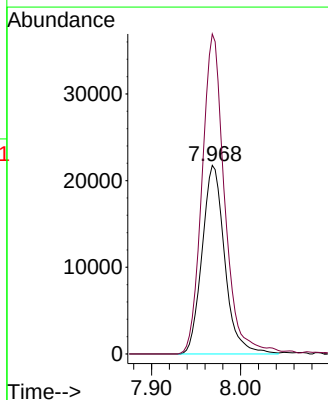
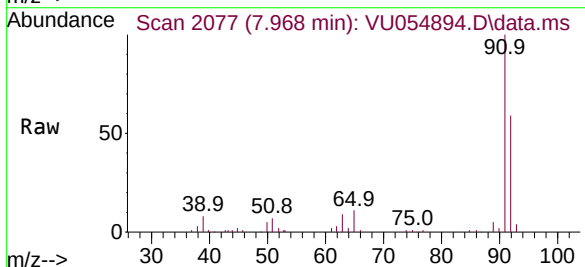
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

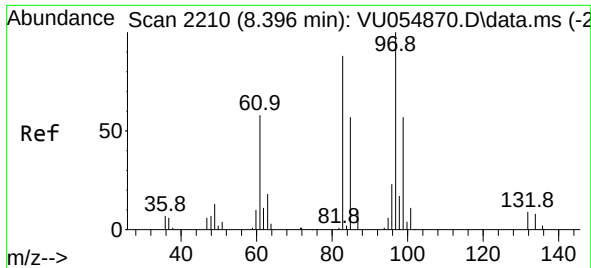
Tgt Ion: 75 Resp: 4708
Ion Ratio Lower Upper
75 100
53 0.0 62.9 94.3#
89 0.5 47.8 71.8#
88 8.1 32.3 48.5#



#49
Toluene
Concen: 2.420 ug/l
RT: 7.968 min Scan# 2077
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion: 92 Resp: 38403
Ion Ratio Lower Upper
92 100
91 169.5 142.9 214.3

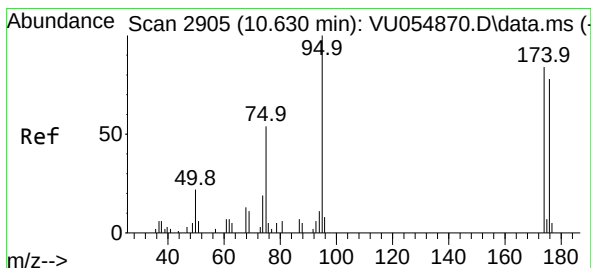
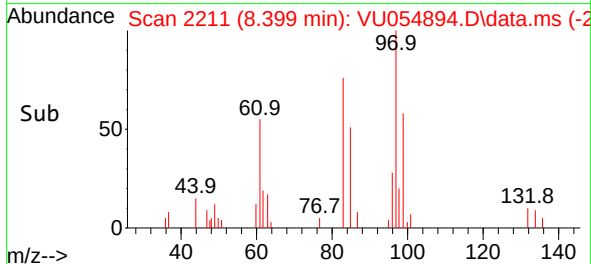
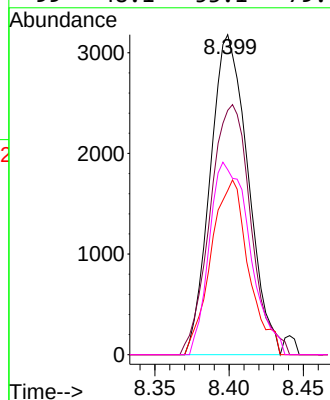
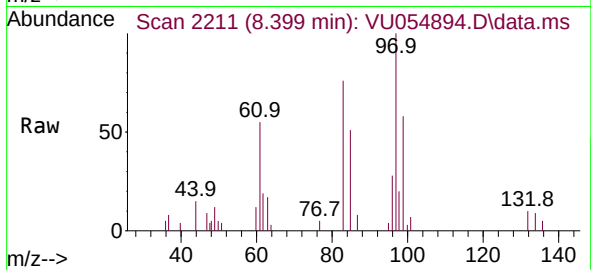




#52
1,1,2-Trichloroethane
Concen: 1.071 ug/l
RT: 8.399 min Scan# 211
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

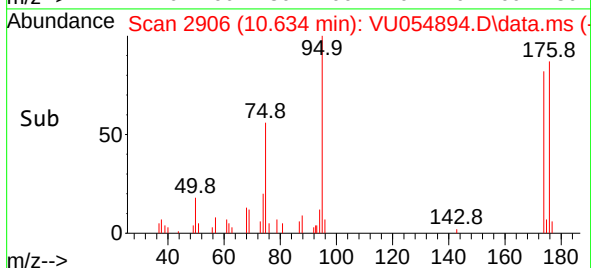
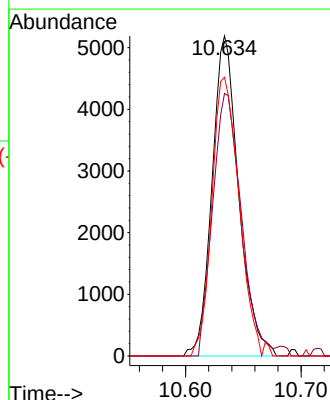
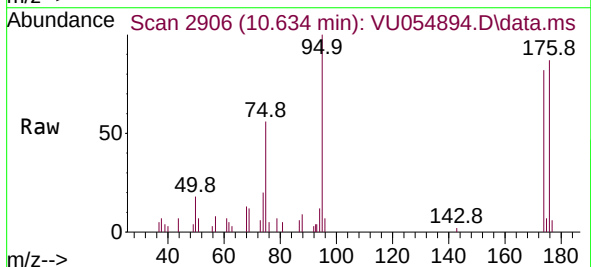
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

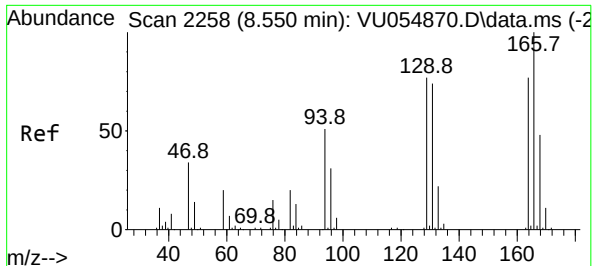
Tgt Ion: 97 Resp: 5619
Ion Ratio Lower Upper
97 100
83 63.6 77.4 116.2#
85 42.7 47.8 71.8#
99 48.1 53.1 79.7#



#57
4-Bromofluorobenzene
Concen: 0.993 ug/l
RT: 10.634 min Scan# 2906
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

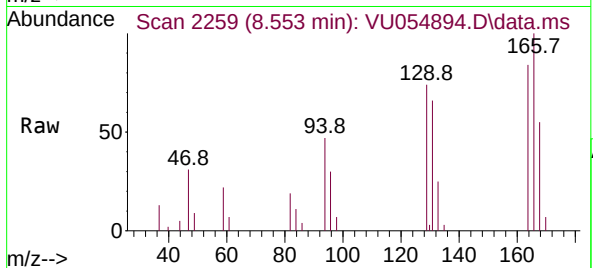
Tgt Ion: 95 Resp: 8326
Ion Ratio Lower Upper
95 100
174 87.6 79.3 118.9
176 88.1 71.5 107.3





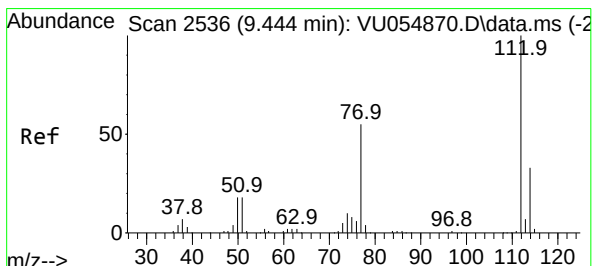
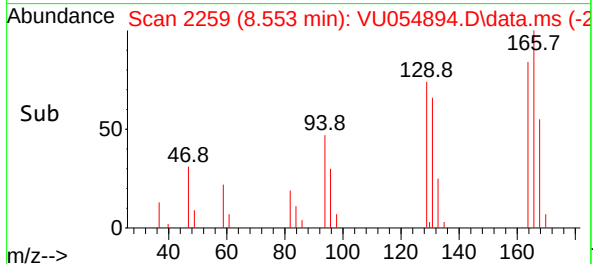
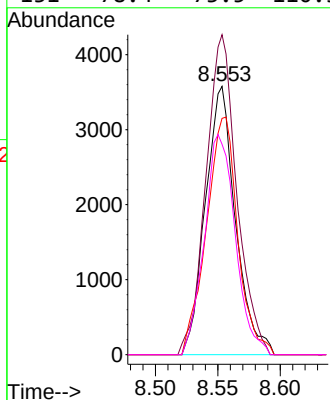
#58
Tetrachloroethene
Concen: 1.028 ug/l
RT: 8.553 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



Tgt Ion:164 Resp: 6011

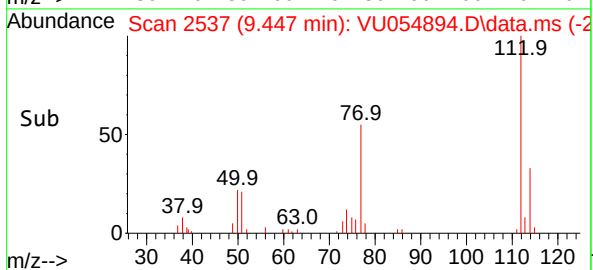
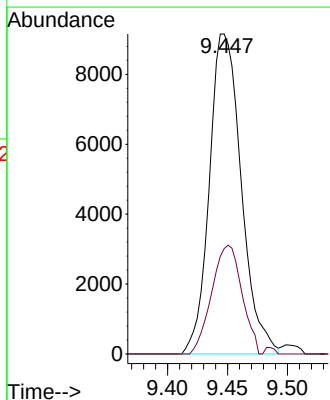
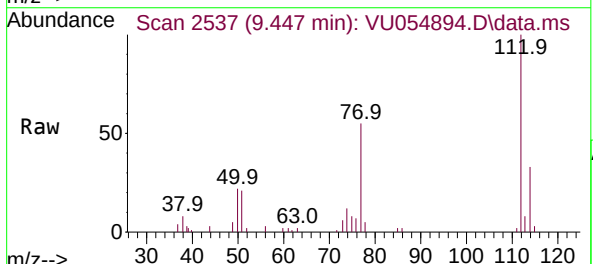
Ion	Ratio	Lower	Upper
164	100		
166	119.2	100.4	150.6
129	88.1	71.9	107.9
131	78.4	73.5	110.3

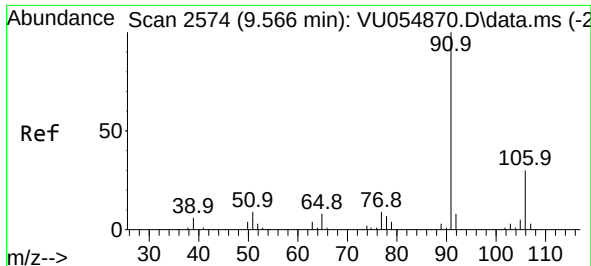


#59
Chlorobenzene
Concen: 0.879 ug/l
RT: 9.447 min Scan# 2537
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion:112 Resp: 16932

Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.0	37.6

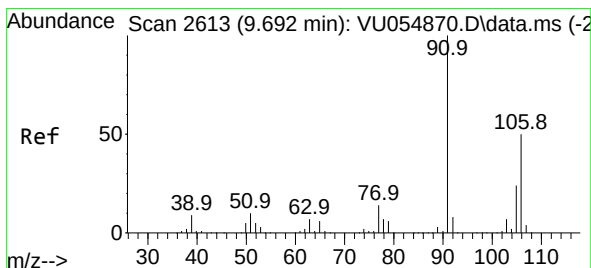
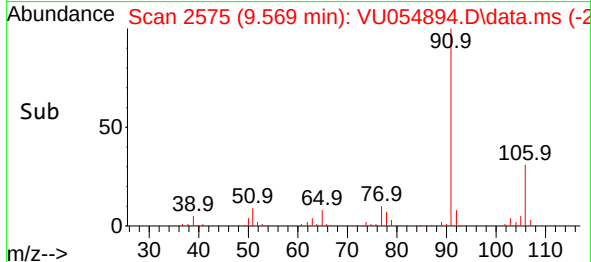
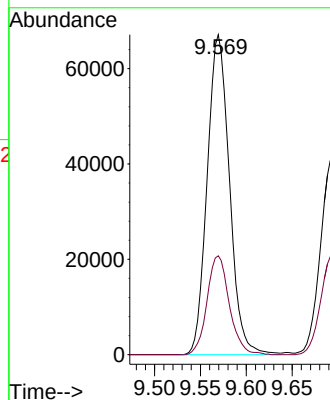
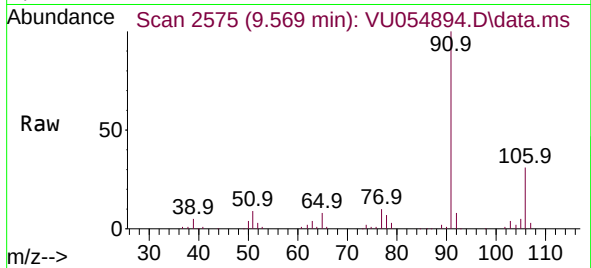




#63
Ethyl Benzene
Concen: 3.505 ug/l
RT: 9.569 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

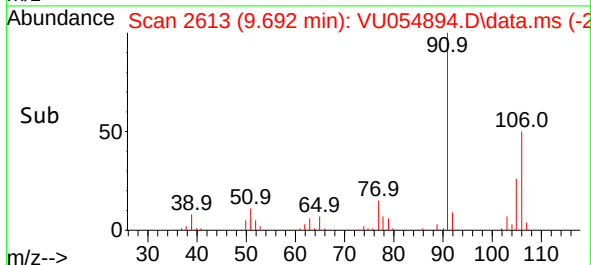
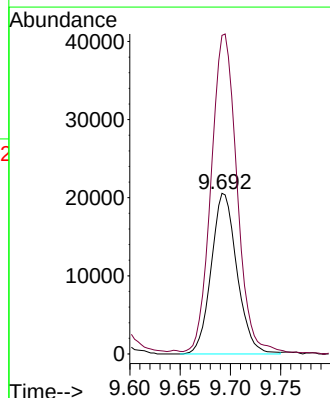
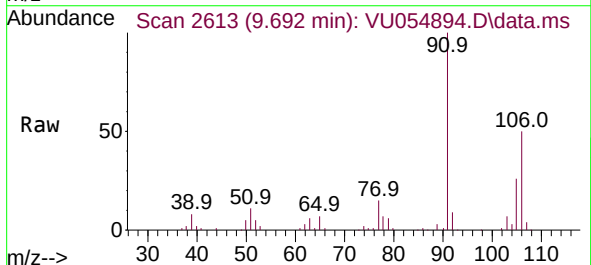
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

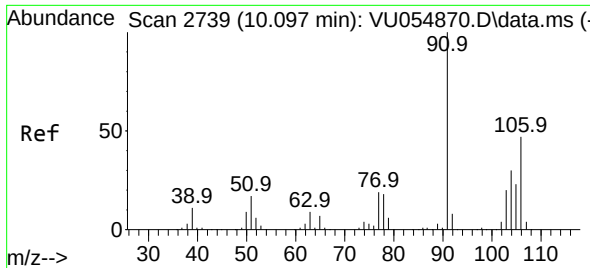
Tgt Ion: 91 Resp: 113283
Ion Ratio Lower Upper
91 100
106 30.9 24.2 36.2



#64
m/p-Xylenes
Concen: 3.024 ug/l
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion:106 Resp: 36561
Ion Ratio Lower Upper
106 100
91 202.6 158.8 238.2

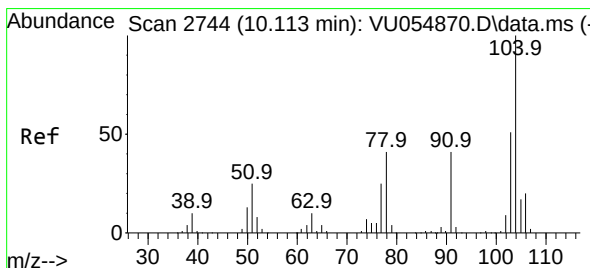
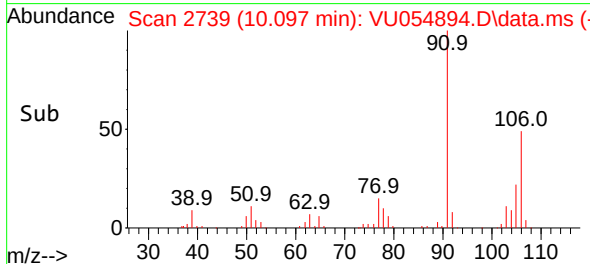
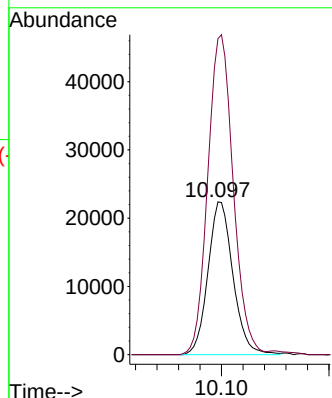
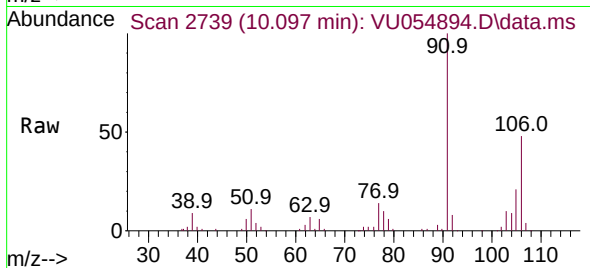




#65
o-Xylene
Concen: 2.912 ug/l
RT: 10.097 min Scan# 2739
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

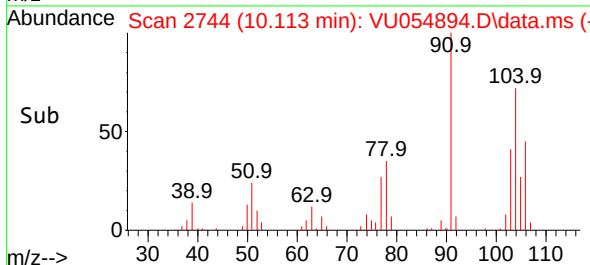
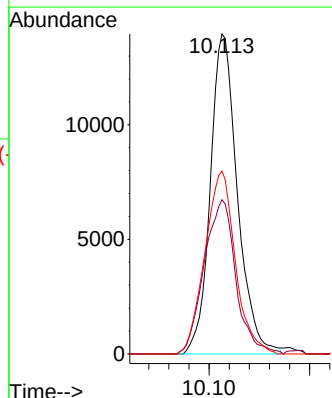
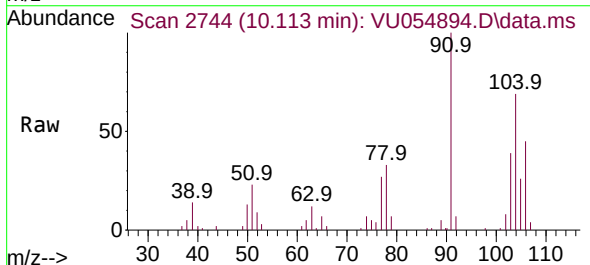
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

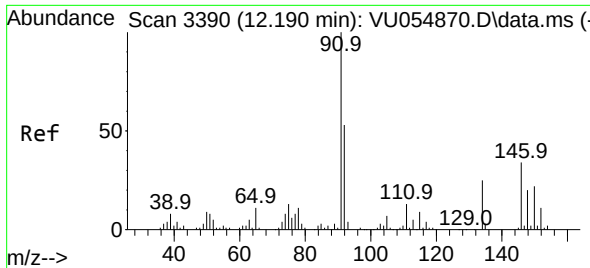
Tgt Ion:106 Resp: 36164
Ion Ratio Lower Upper
106 100
91 213.1 108.9 326.8



#66
Styrene
Concen: 1.316 ug/l
RT: 10.113 min Scan# 2744
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion:104 Resp: 26142
Ion Ratio Lower Upper
104 100
78 56.2 37.5 56.3
103 64.2 45.2 67.8

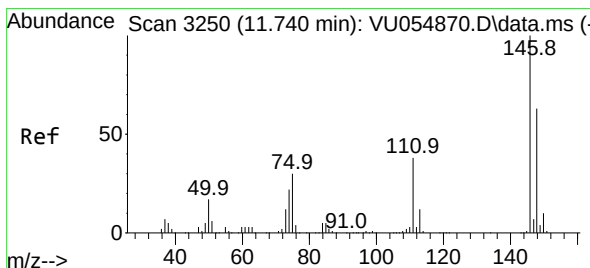
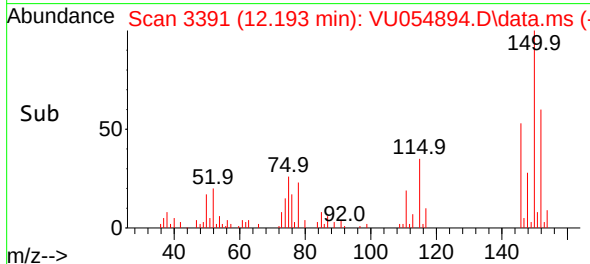
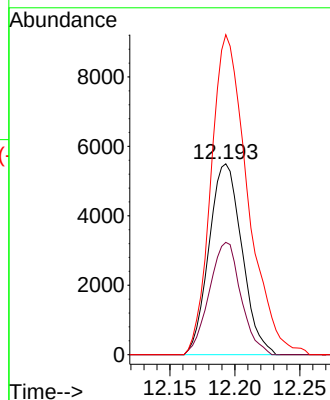
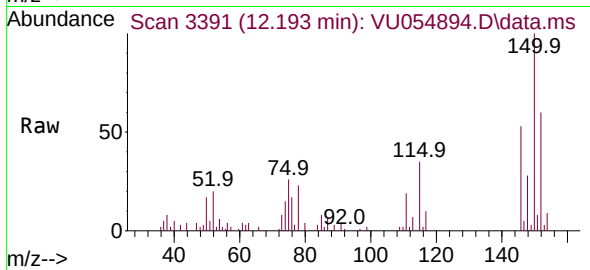




#68
 1,2-Dichlorobenzene-d4
 Concen: 1.023 ug/l
 RT: 12.193 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU054894.D
 Acq: 27 Jul 2023 13:29

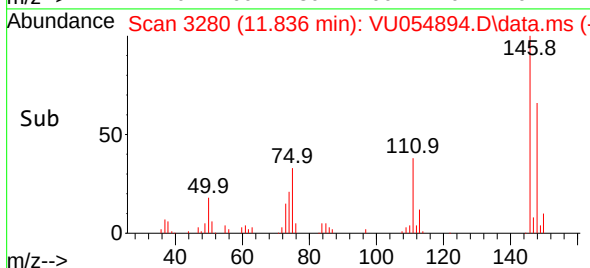
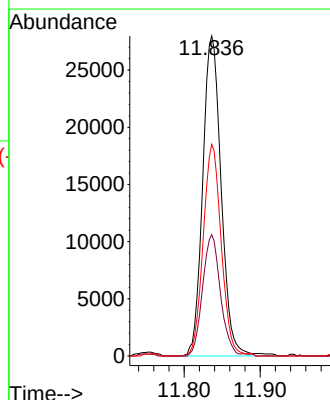
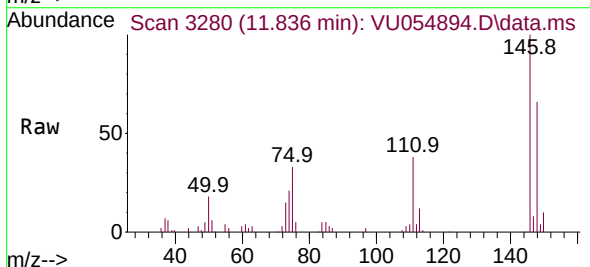
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

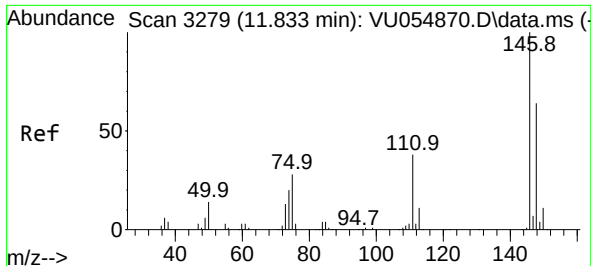
Tgt Ion:152 Resp: 9696
 Ion Ratio Lower Upper
 152 100
 115 56.6 0.0 234.8
 150 186.5 0.0 598.2



#82
 1,3-Dichlorobenzene
 Concen: 2.990 ug/l
 RT: 11.836 min Scan# 3280
 Delta R.T. 0.096 min
 Lab File: VU054894.D
 Acq: 27 Jul 2023 13:29

Tgt Ion:146 Resp: 47251
 Ion Ratio Lower Upper
 146 100
 111 36.9 30.5 45.7
 148 64.4 51.0 76.6

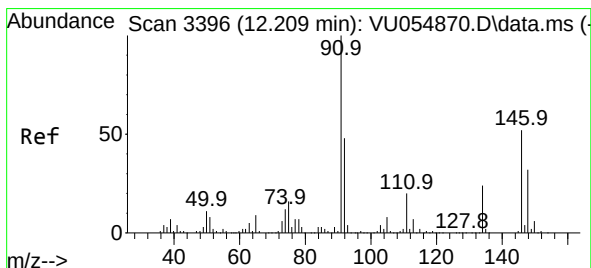
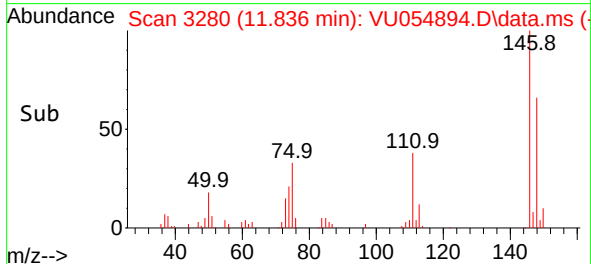
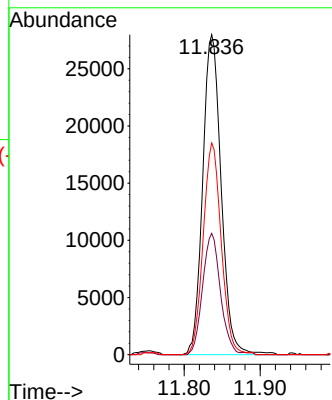
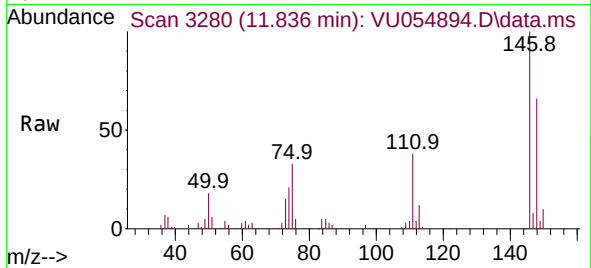




#83
1,4-Dichlorobenzene
Concen: 2.999 ug/l
RT: 11.836 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

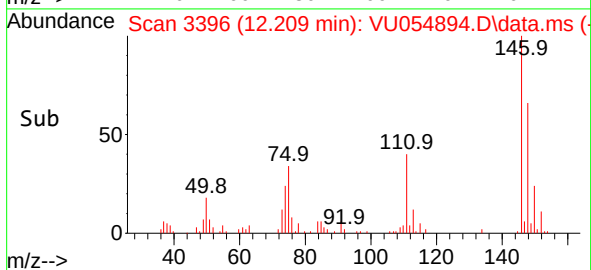
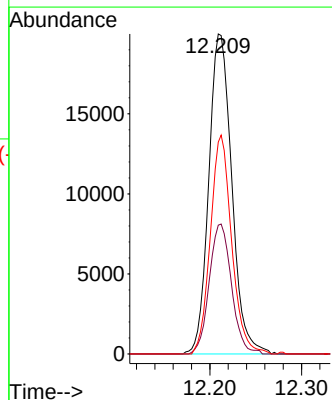
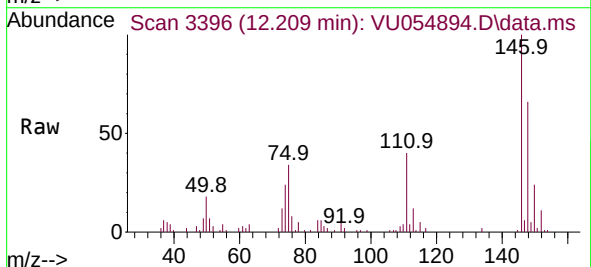
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

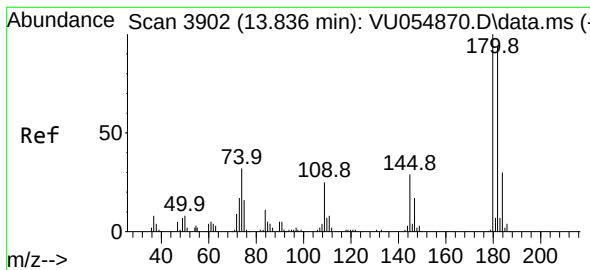
Tgt Ion:146 Resp: 47251
Ion Ratio Lower Upper
146 100
111 36.9 29.5 44.3
148 64.4 51.2 76.8



#85
1,2-Dichlorobenzene
Concen: 2.301 ug/l
RT: 12.209 min Scan# 3396
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

Tgt Ion:146 Resp: 34865
Ion Ratio Lower Upper
146 100
111 39.2 19.8 59.4
148 63.3 31.8 95.3





#87

1,2,4-Trichlorobenzene

Concen: 2.039 ug/l

RT: 13.839 min Scan# 3903

Delta R.T. 0.003 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

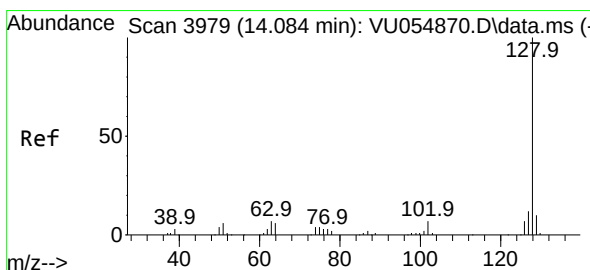
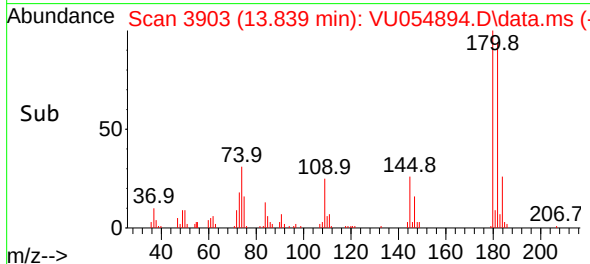
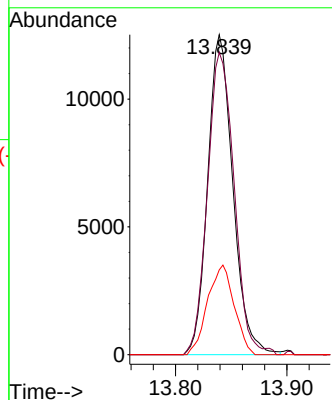
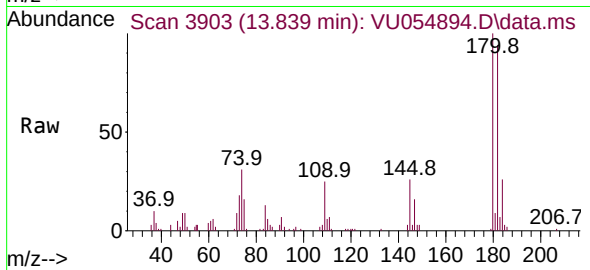
Tgt Ion:180 Resp: 19701

Ion Ratio Lower Upper

180 100

182 99.8 77.0 115.6

145 29.5 23.4 35.0



#89

Naphthalene

Concen: 0.203 ug/l

RT: 14.093 min Scan# 3982

Delta R.T. 0.010 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Tgt Ion:128 Resp: 3036

Ion Ratio Lower Upper

128 100

127 6.9 10.6 15.8#

129 9.4 8.7 13.1

