

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)

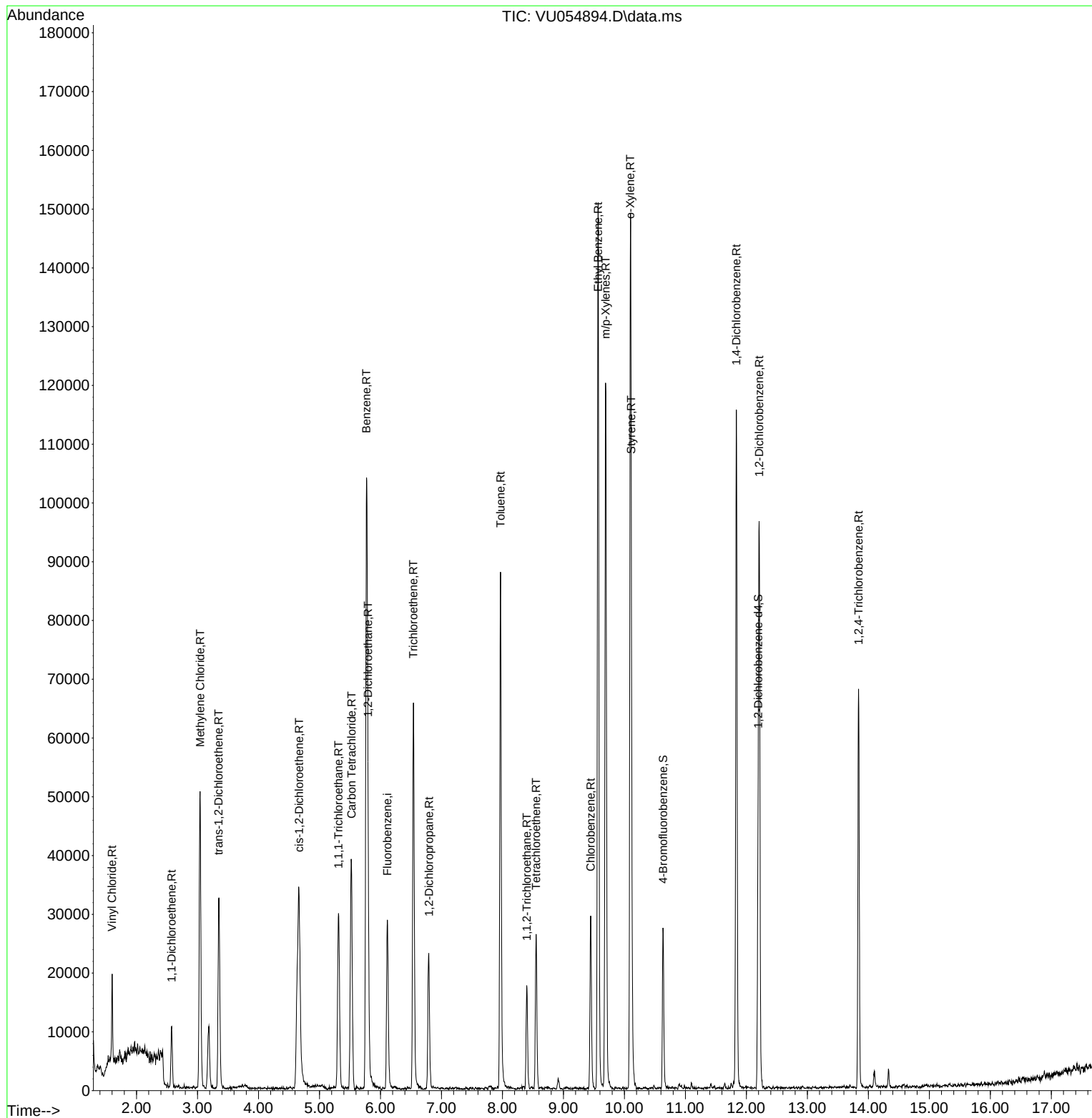
Internal Standards						
1) Fluorobenzene	6.113	96	27663	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	8326	0.993	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	9696	1.023	ug/l	0.00
Spiked Amount 1.000			Recovery	=	102.000%	
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
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
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
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
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

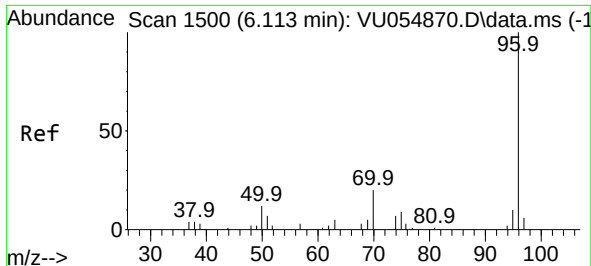
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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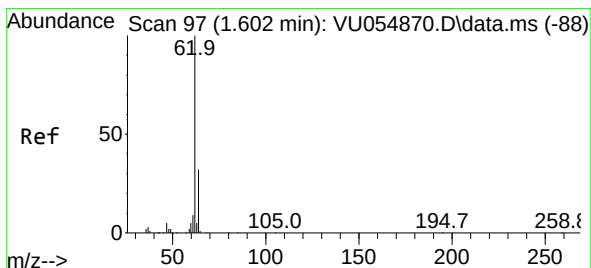
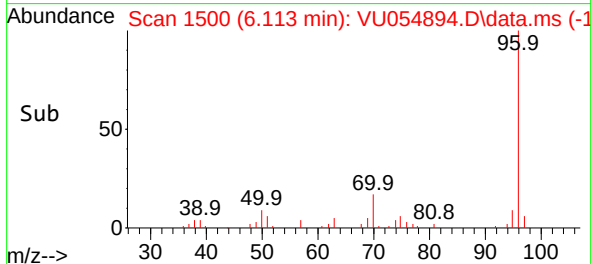
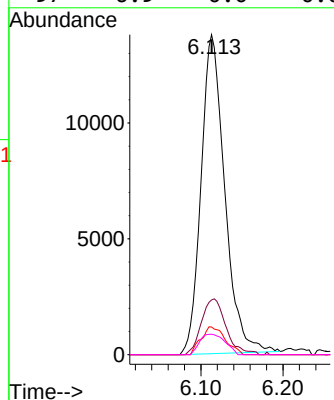
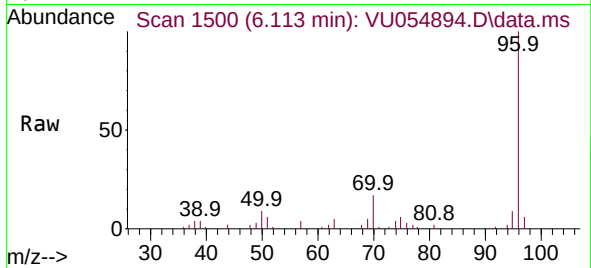




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

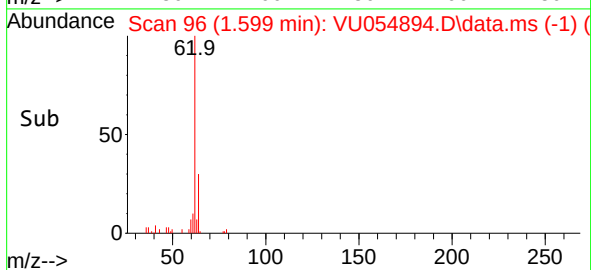
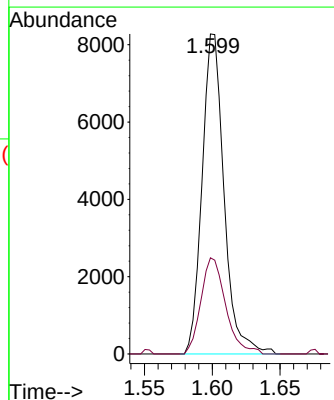
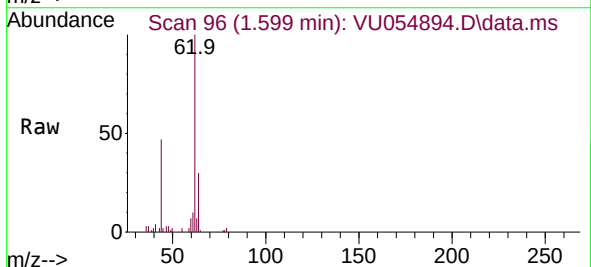
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

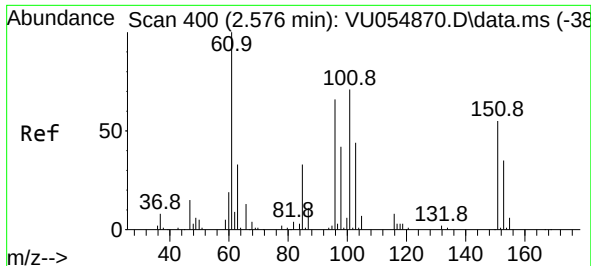
Tgt Ion:	96	Resp:	27663
Ion	Ratio	Lower	Upper
96	100		
70	18.1	14.0	21.0
95	9.0	8.7	13.1
97	6.9	0.0	0.0



#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

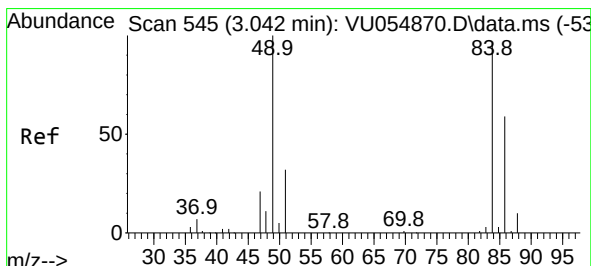
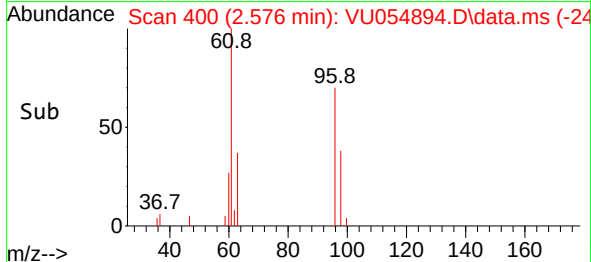
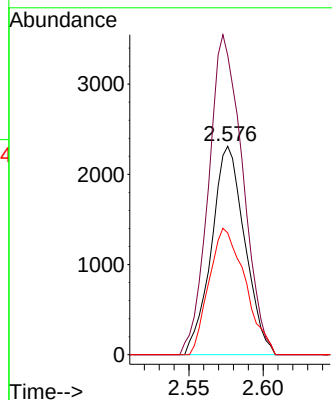
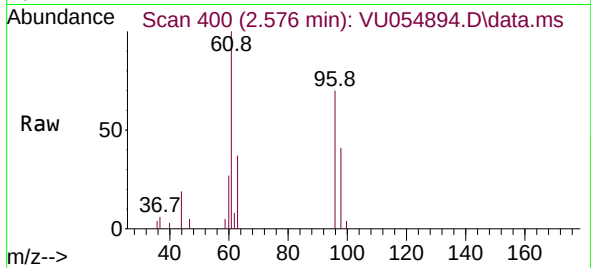




#9
1,1-Dichloroethene
Concen: 0.755 ug/l
RT: 2.576 min Scan# 400
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

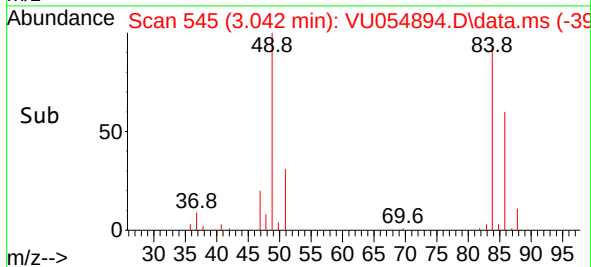
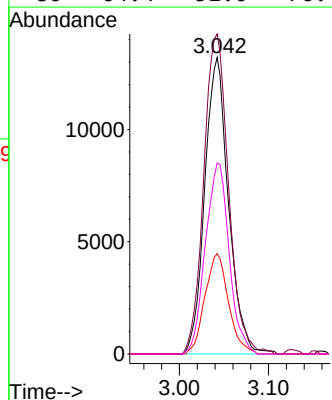
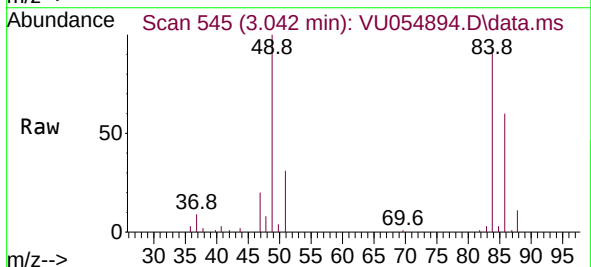
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

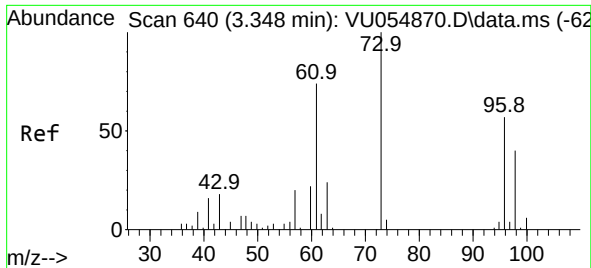
Tgt Ion: 96 Resp: 3605
Ion Ratio Lower Upper
96 100
61 143.6 0.0 440.1
98 58.4 0.0 121.8



#15
Methylene Chloride
Concen: 3.983 ug/l
RT: 3.042 min Scan# 545
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

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

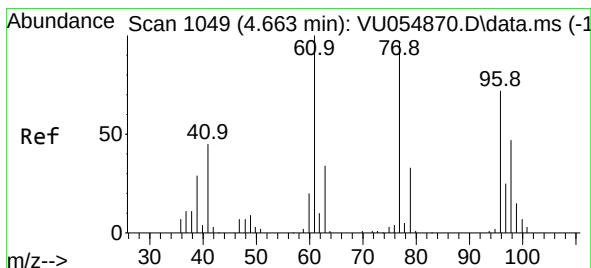
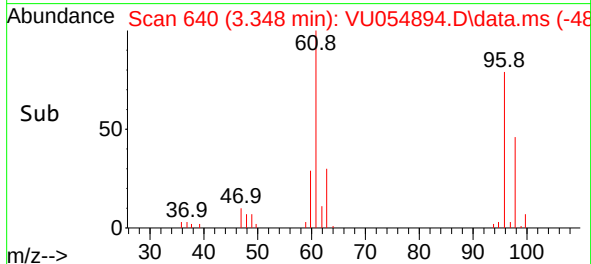
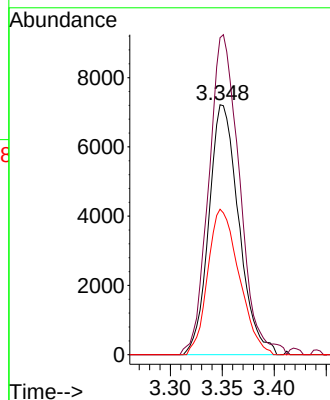
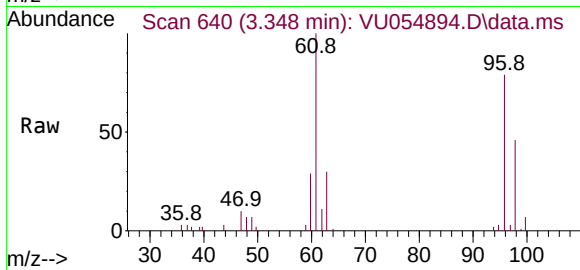




#16
trans-1,2-Dichloroethene
Concen: 2.780 ug/l
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

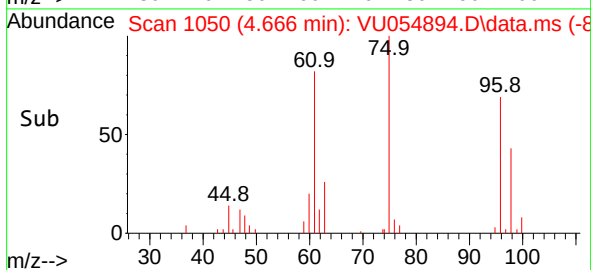
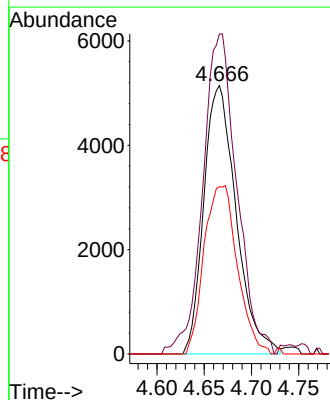
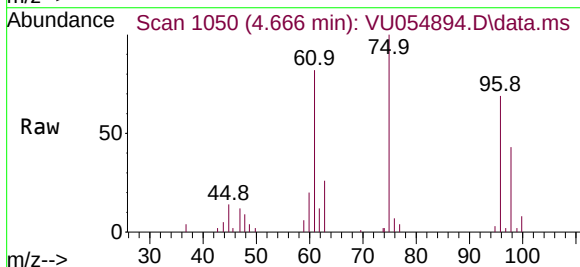
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

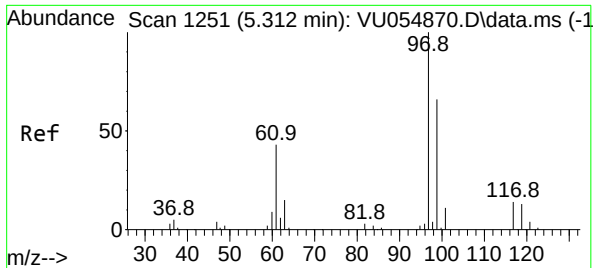
Tgt Ion: 96 Resp: 14453
Ion Ratio Lower Upper
96 100
61 126.8 96.4 144.6
98 58.2 49.3 73.9



#22
cis-1,2-Dichloroethene
Concen: 1.772 ug/l
RT: 4.666 min Scan# 1050
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

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





#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

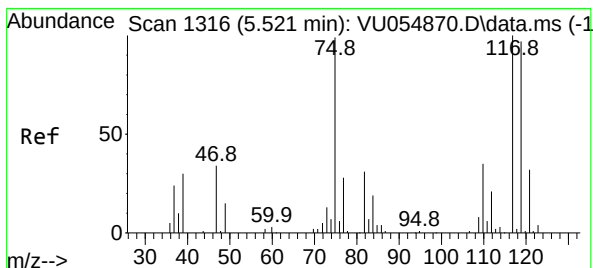
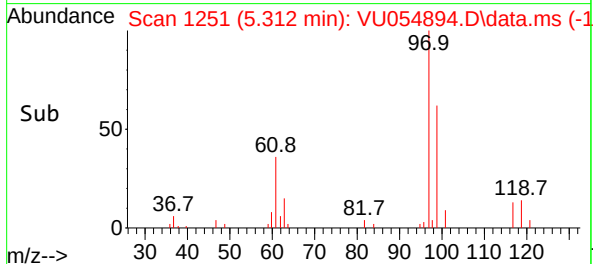
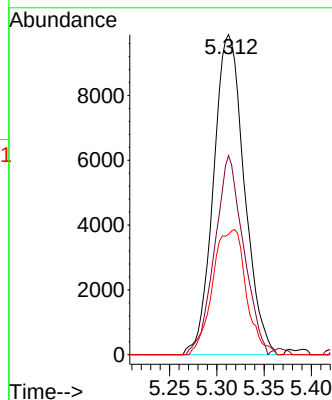
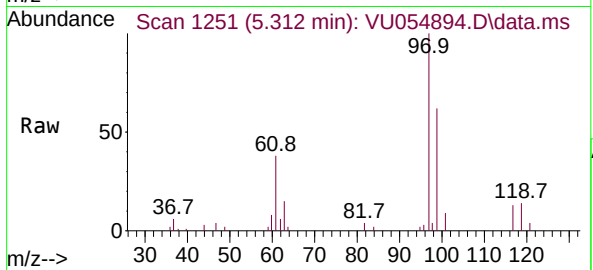
Tgt Ion: 97 Resp: 22423

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

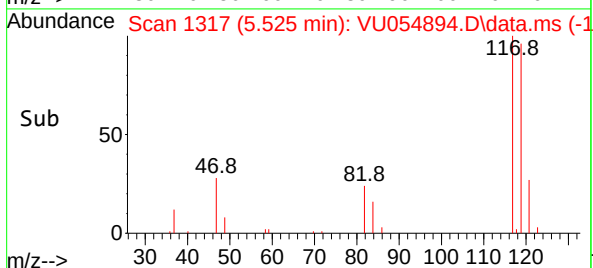
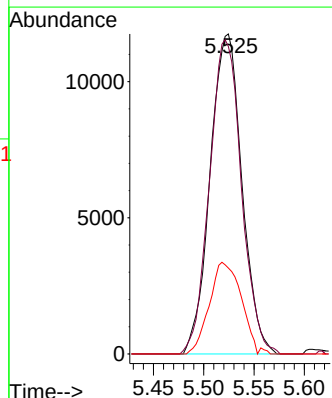
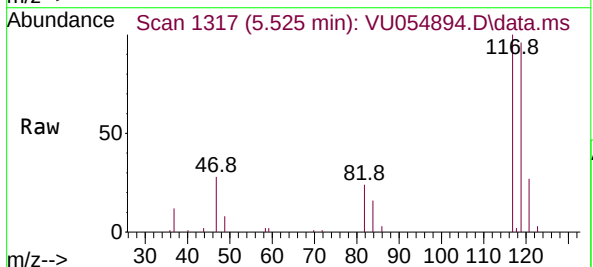
Tgt Ion: 117 Resp: 25846

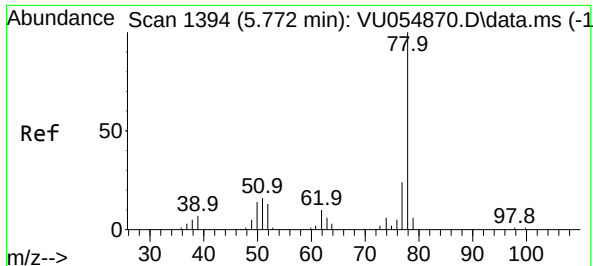
Ion Ratio Lower Upper

117 100

119 94.1 75.6 113.4

121 26.3 23.4 35.0

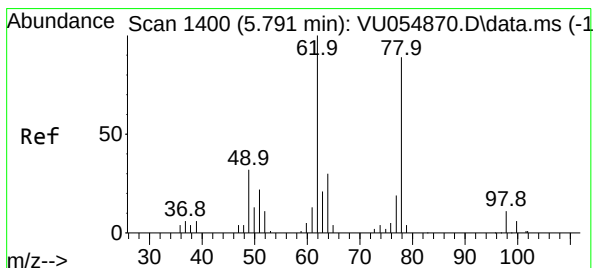
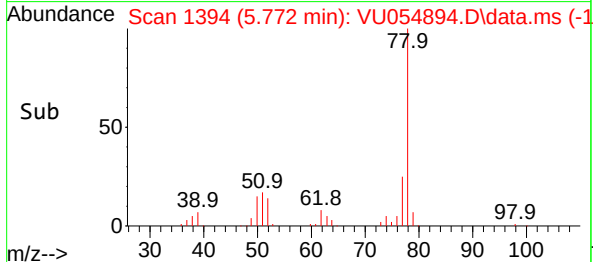
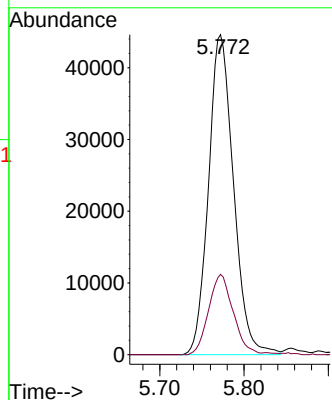
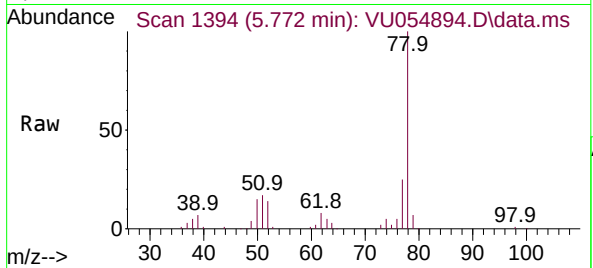




#35
Benzene
Concen: 3.696 ug/l
RT: 5.772 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

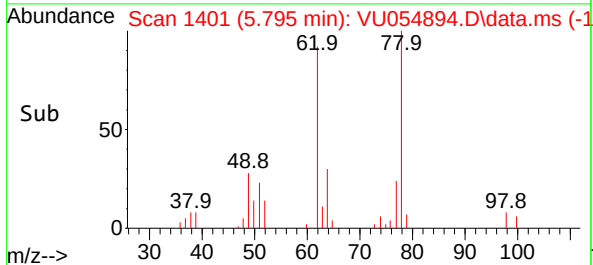
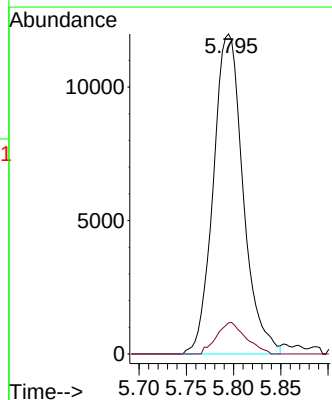
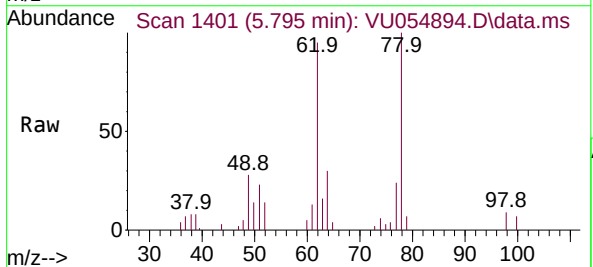
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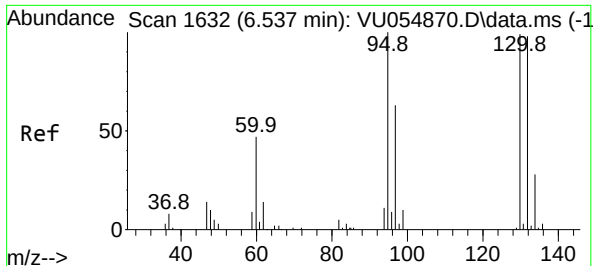
Tgt Ion: 78 Resp: 92087
Ion Ratio Lower Upper
78 100
77 25.1 19.4 29.2



#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 :

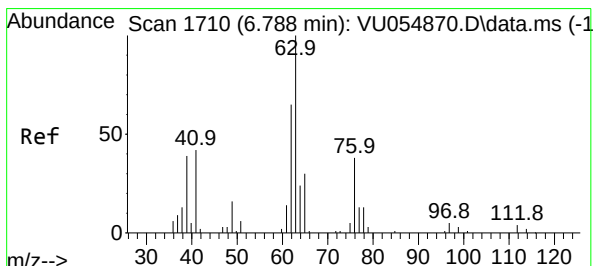
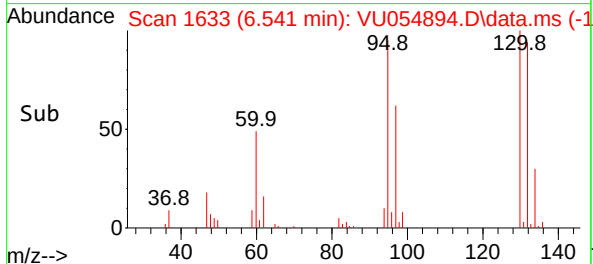
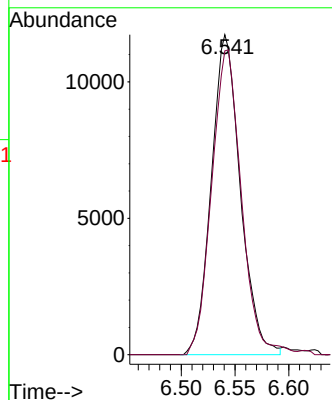
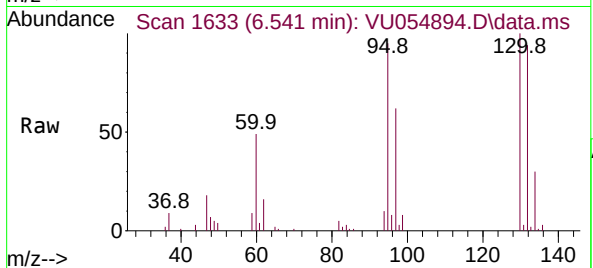
PT-RVOA-WSDL

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

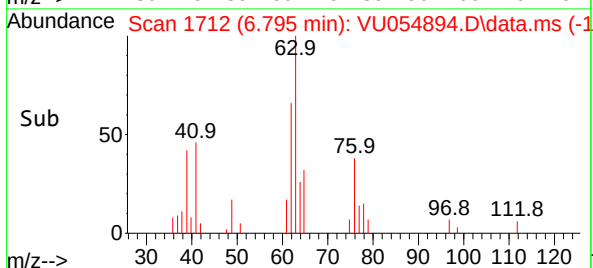
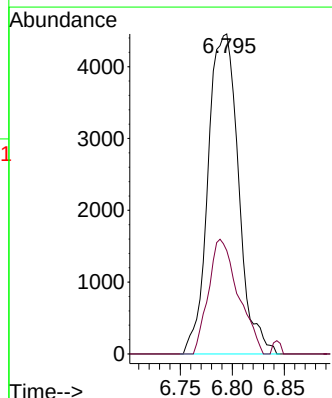
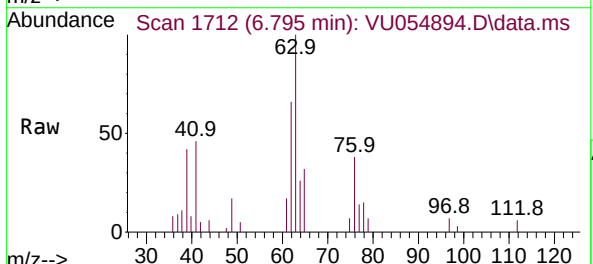
Acq: 27 Jul 2023 13:29

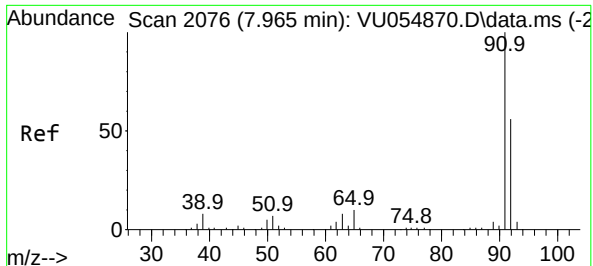
Tgt Ion: 63 Resp: 9072

Ion Ratio Lower Upper

63 100

65 32.3 24.3 36.5





#49

Toluene

Concen: 2.420 ug/l

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

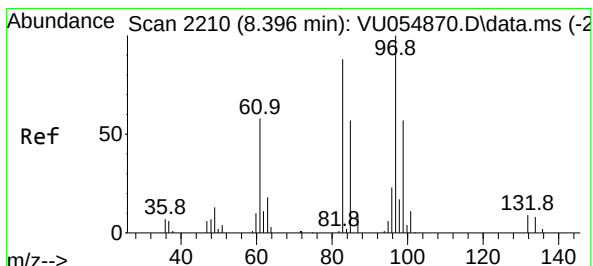
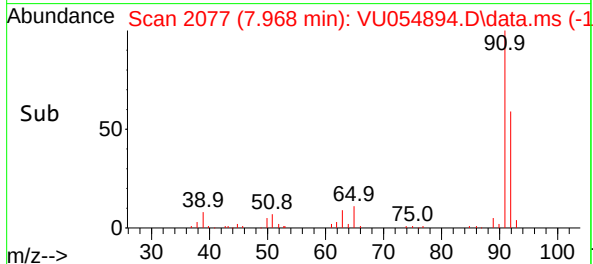
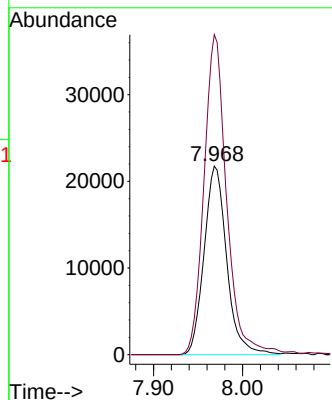
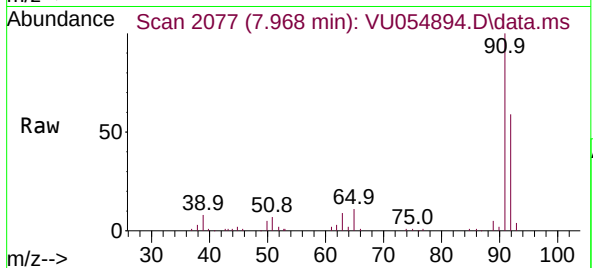
PT-RVOA-WSDL

Tgt Ion: 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# 2211

Delta R.T. 0.003 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Tgt Ion: 97 Resp: 5619

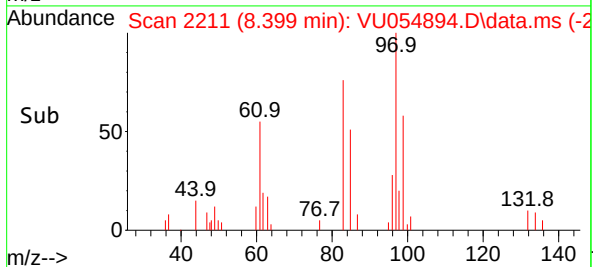
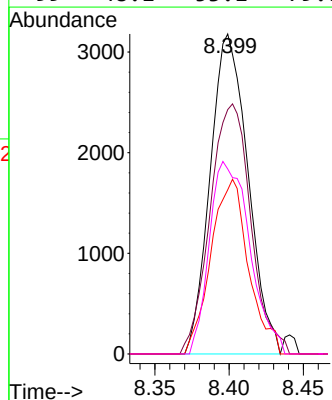
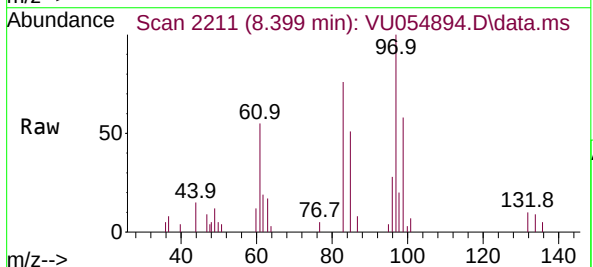
Ion Ratio Lower Upper

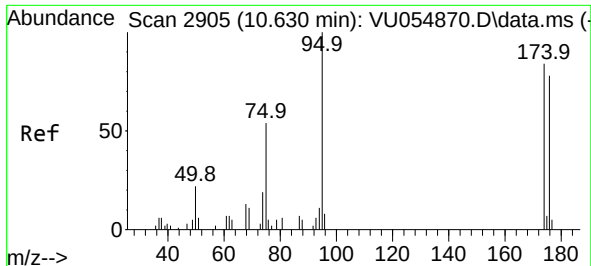
97 100

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# 2905

Delta R.T. 0.003 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

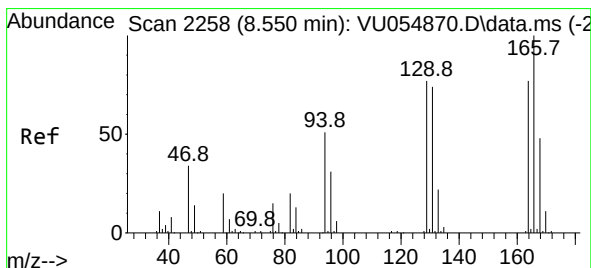
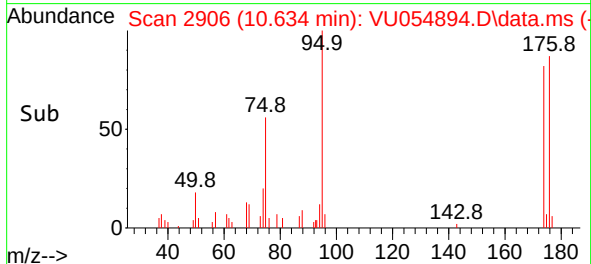
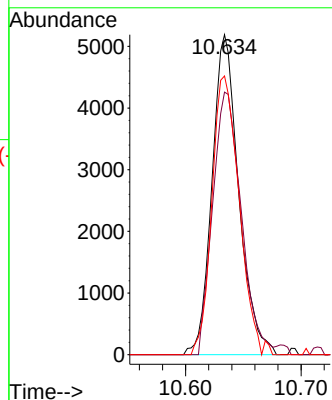
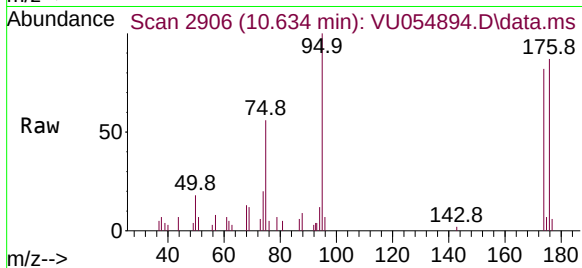
Tgt Ion: 95 Resp: 8326

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# 2259

Delta R.T. 0.003 min

Lab File: VU054894.D

Acq: 27 Jul 2023 13:29

Tgt Ion: 164 Resp: 6011

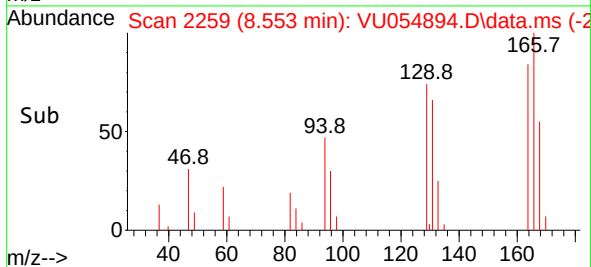
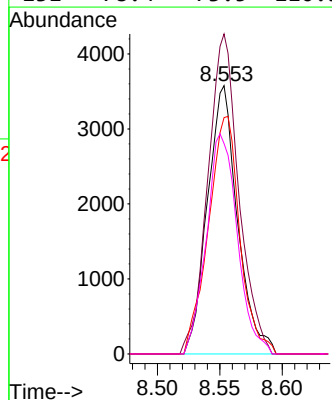
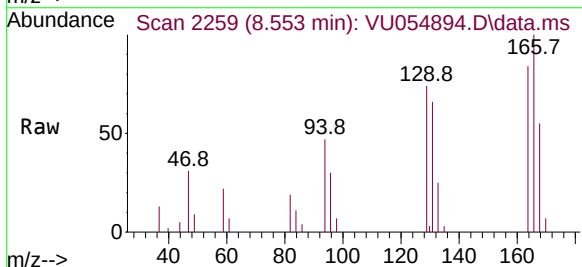
Ion Ratio Lower Upper

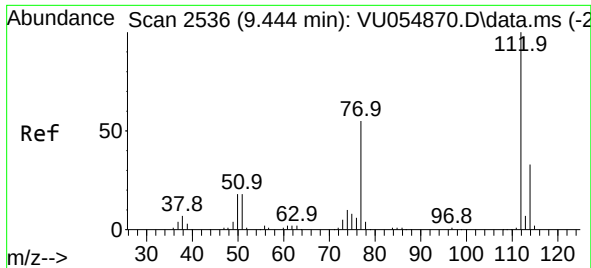
164 100

166 119.2 100.4 150.6

129 88.1 71.9 107.9

131 78.4 73.5 110.3

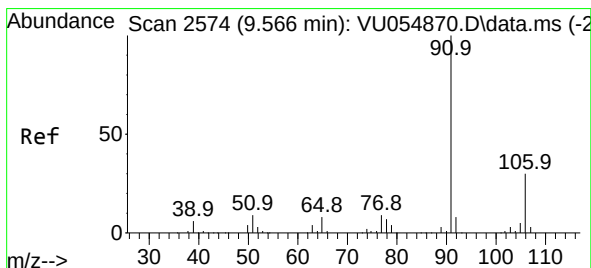
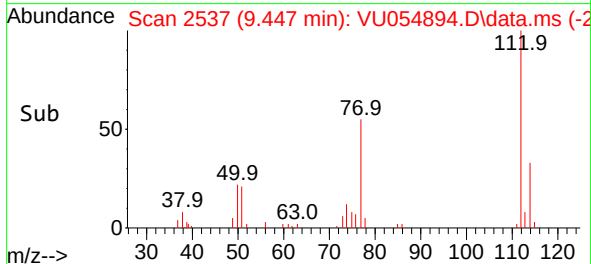
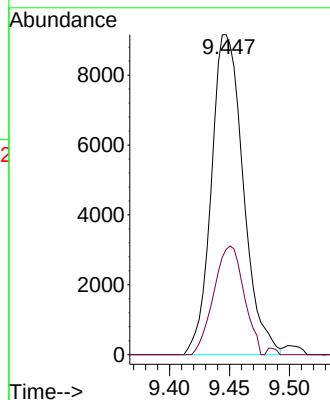
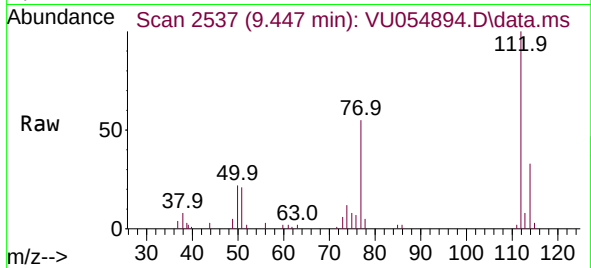




#59
Chlorobenzene
Concen: 0.879 ug/l
RT: 9.447 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

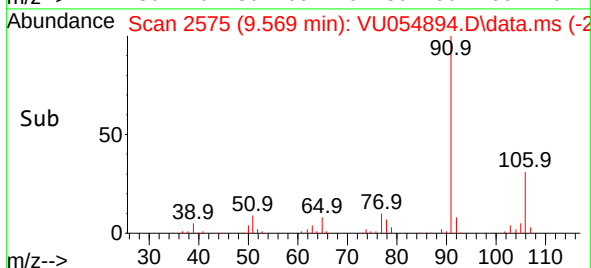
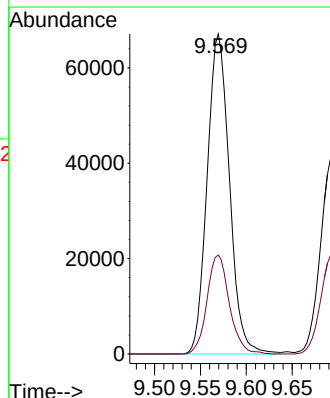
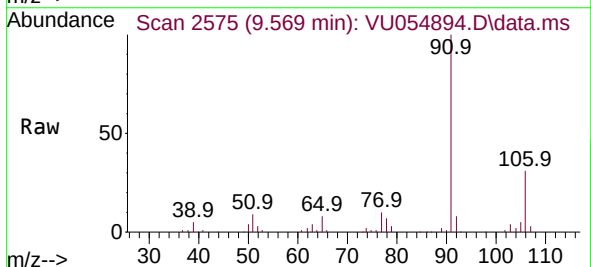
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

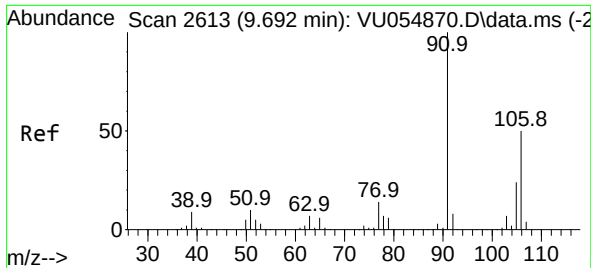
Tgt Ion:112 Resp: 16932
Ion Ratio Lower Upper
112 100
114 32.9 25.0 37.6



#63
Ethyl Benzene
Concen: 3.505 ug/l
RT: 9.569 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

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

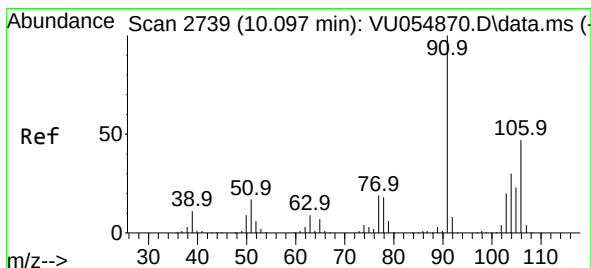
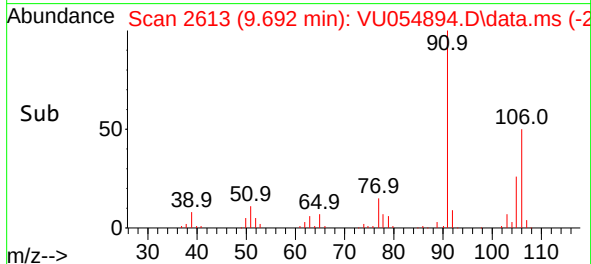
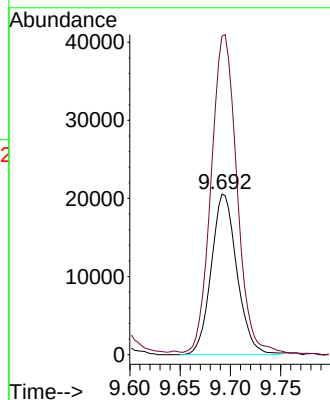
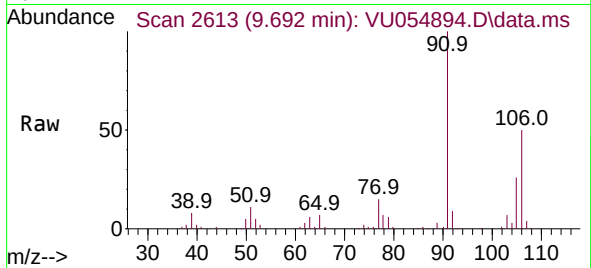




#64
m/p-Xylenes
Concen: 3.024 ug/l
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

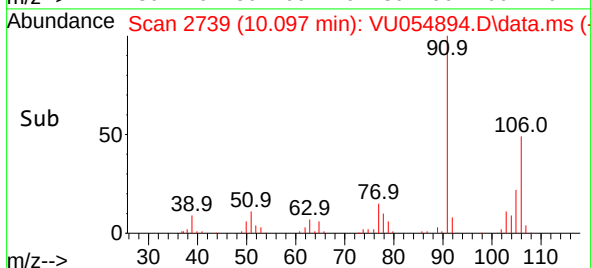
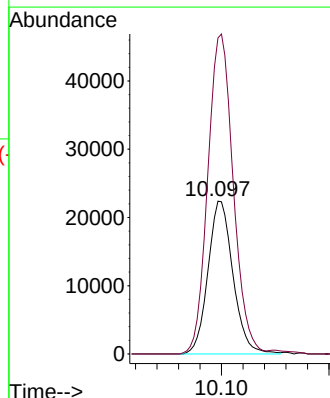
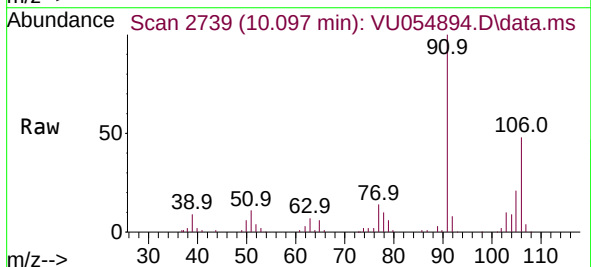
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

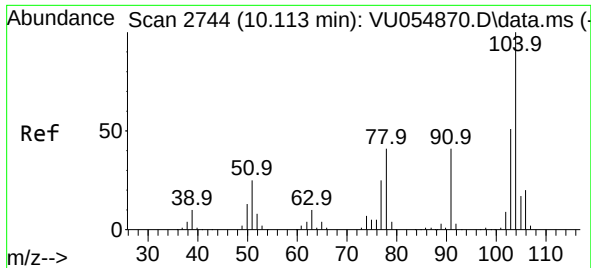
Tgt Ion:106 Resp: 36561
Ion Ratio Lower Upper
106 100
91 202.6 158.8 238.2



#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

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

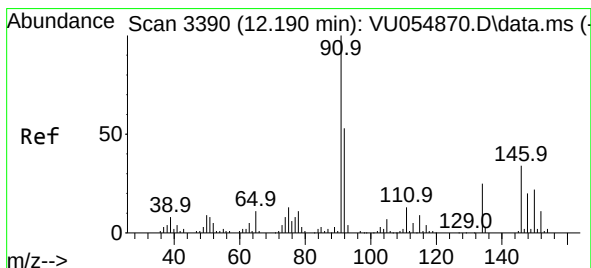
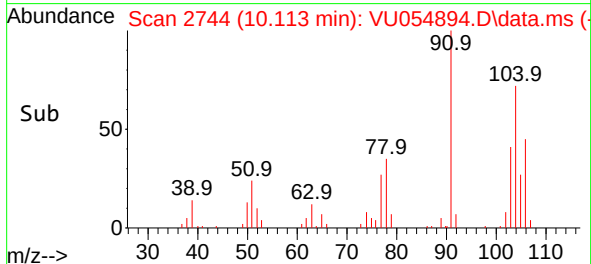
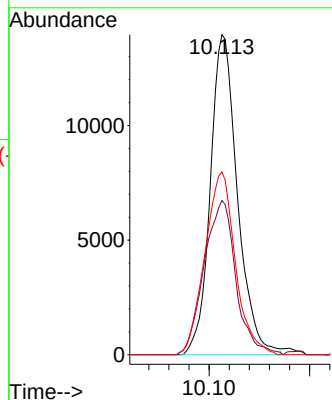
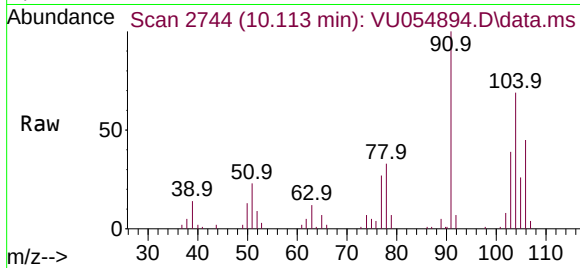




#66
Styrene
Concen: 1.316 ug/l
RT: 10.113 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

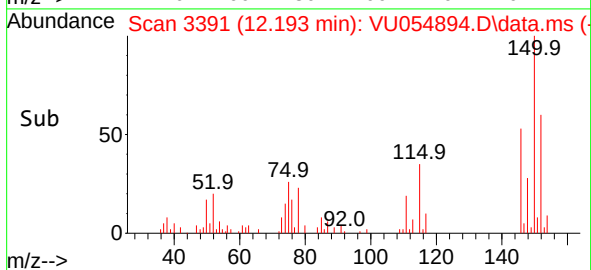
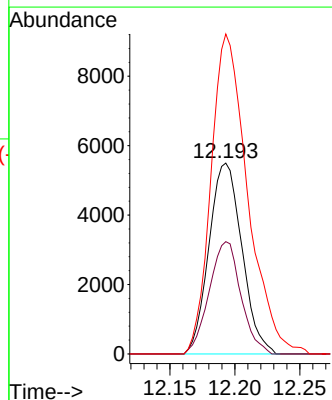
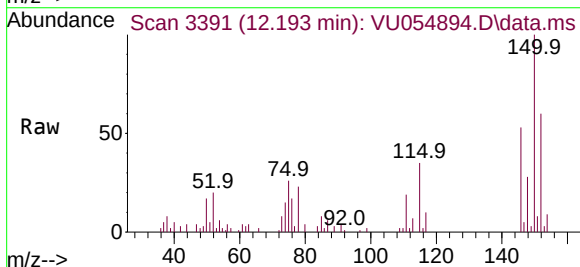
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

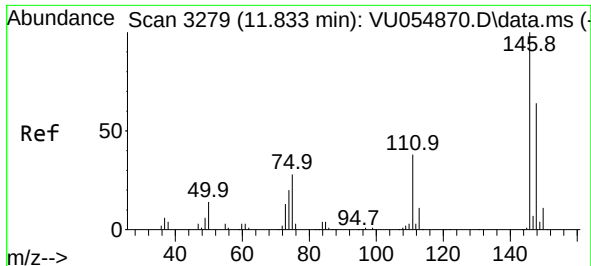
Tgt Ion:104 Resp: 26142
Ion Ratio Lower Upper
104 100
78 56.2 37.5 56.3
103 64.2 45.2 67.8



#68
1,2-Dichlorobenzene-d4
Concen: 1.023 ug/l
RT: 12.193 min Scan# 3391
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

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

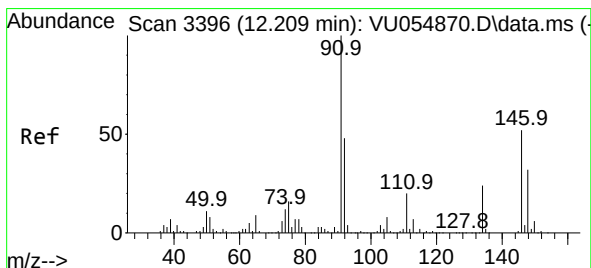
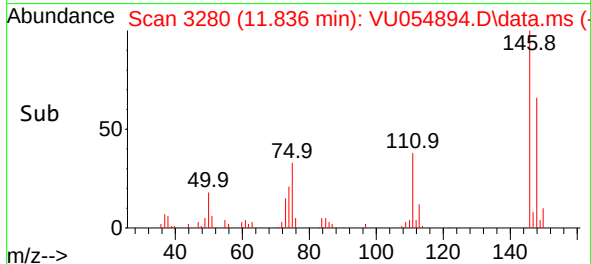
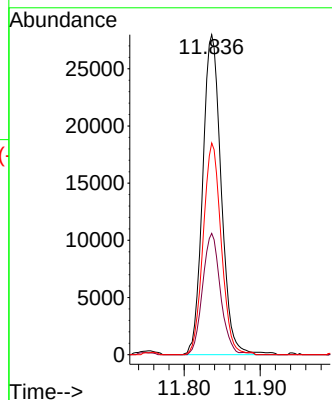
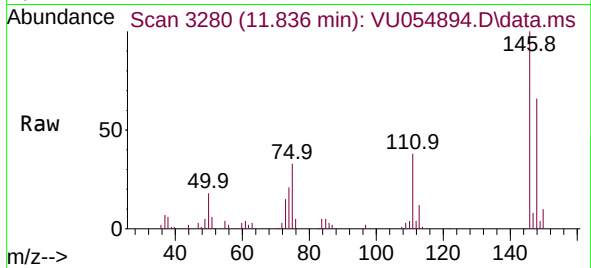




#83
1,4-Dichlorobenzene
Concen: 2.999 ug/l
RT: 11.836 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054894.D
Acq: 27 Jul 2023 13:29

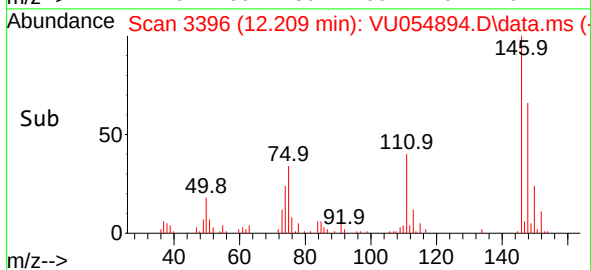
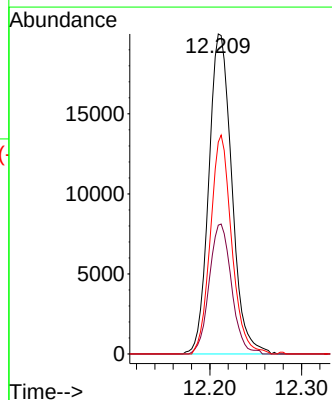
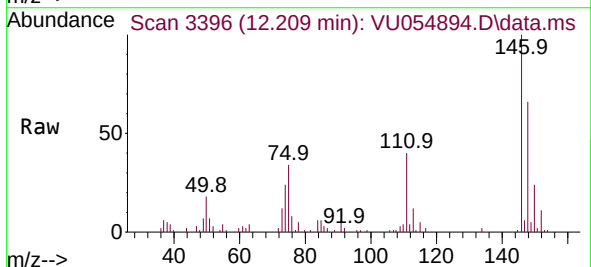
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

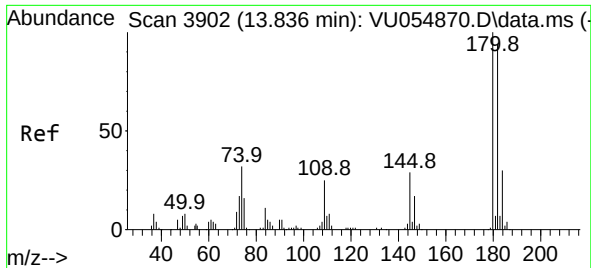
Tgt Ion:146 Resp: 47251
Ion Ratio Lower Upper
146 100
111 36.9 29.5 44.3
148 64.4 51.2 76.8



#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

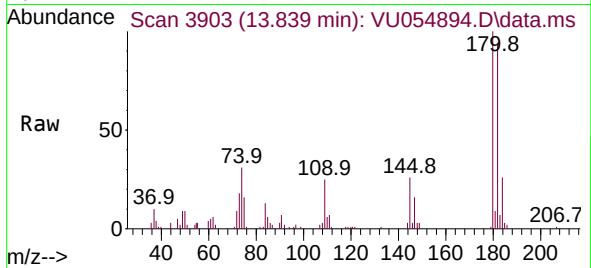
Tgt Ion:146 Resp: 34865
Ion Ratio Lower Upper
146 100
111 39.2 19.8 59.4
148 63.3 31.8 95.3





#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

