

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020624\
 Data File : VU057824.D
 Acq On : 06 Feb 2024 16:41
 Operator : MD/SY
 Sample : P1174-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Quant Time: Feb 07 03:01:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U020524DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Feb 06 02:05:40 2024
 Response via : Initial Calibration

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

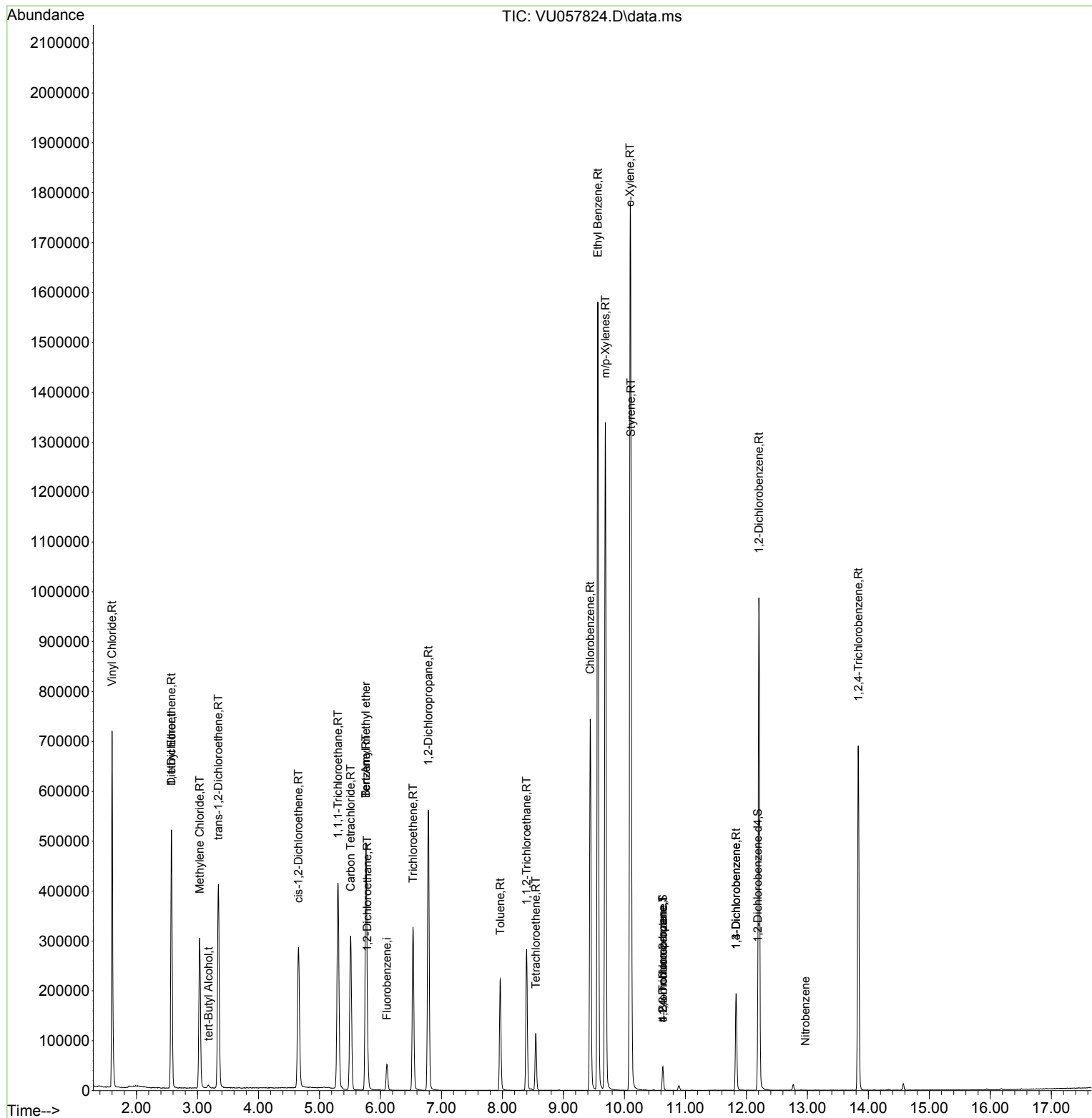
Internal Standards						
1) Fluorobenzene	6.107	96	47016	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	16538	0.958	ug/l	0.00
Spiked Amount 1.000			Recovery	=	96.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	15102	0.990	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.599	62	534316	35.062	ug/l	100
9) 1,1-Dichloroethene	2.573	96	166801	14.739	ug/l	98
15) Methylene Chloride	3.036	84	137556	9.467	ug/l	97
16) trans-1,2-Dichloroethene	3.341	96	160520	13.068	ug/l	94
22) cis-1,2-Dichloroethene	4.656	96	140870	10.416	ug/l	96
23) Diethyl Ether	2.573	59	10178	1.166	ug/l #	15
24) tert-Butyl Alcohol	3.181	59	3204	5.057	ug/l #	1
28) 1,1,1-Trichloroethane	5.303	97	295320	13.246	ug/l	99
30) Carbon Tetrachloride	5.512	117	205369	10.749	ug/l	99
33) Tert-Amyl methyl ether	5.763	73	8504	0.273	ug/l #	59
35) Benzene	5.763	78	461319	8.792	ug/l	99
36) 1,2-Dichloroethane	5.785	62	48513	3.162	ug/l	96
37) Trichloroethene	6.534	130	106005	7.846	ug/l	99
38) 1,2-Dichloropropane	6.785	63	216725	15.618	ug/l	100
46) t-1,4-Dichloro-2-butene	10.630	75	9082	4.754	ug/l #	17
49) Toluene	7.965	92	91994	2.900	ug/l	97
52) 1,1,2-Trichloroethane	8.396	97	85722	9.775	ug/l	99
58) Tetrachloroethene	8.547	164	24071	2.054	ug/l	96
59) Chlorobenzene	9.441	112	384555	11.023	ug/l	100
63) Ethyl Benzene	9.563	91	1111866	17.710	ug/l	99
64) m/p-Xylenes	9.688	106	363126	15.786	ug/l	96
65) o-Xylene	10.094	106	363804	15.920	ug/l	95
66) Styrene	10.110	104	362975	10.285	ug/l #	90
71) 1,2,3-Trichloropropane	10.630	75	9082	0.973	ug/l #	33
80) Nitrobenzene	12.968	77	111	2.368	ug/l #	40
82) 1,3-Dichlorobenzene	11.833	146	75324	2.901	ug/l	98
83) 1,4-Dichlorobenzene	11.833	146	75324	2.928	ug/l	98
85) 1,2-Dichlorobenzene	12.206	146	367940	15.258	ug/l	98
87) 1,2,4-Trichlorobenzene	13.836	180	199102	13.523	ug/l	98

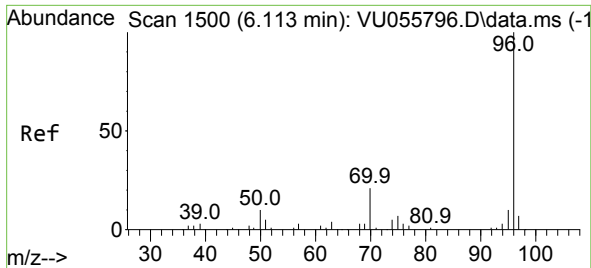
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U020524DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Feb 06 02:05:40 2024
Response via : Initial Calibration

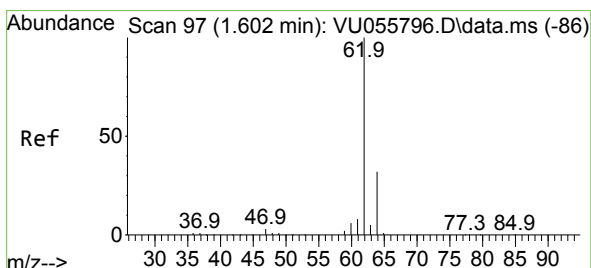
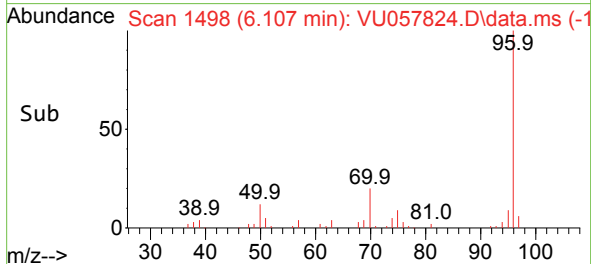
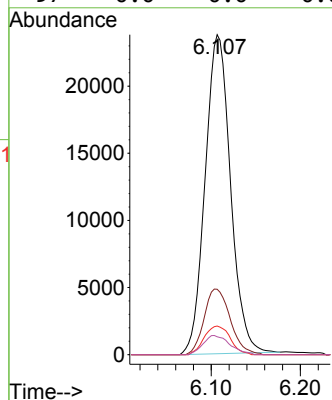
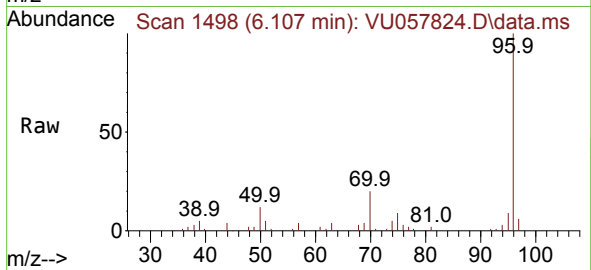




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 14
Delta R.T. 0.004 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

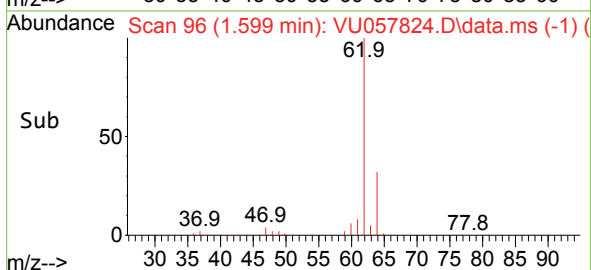
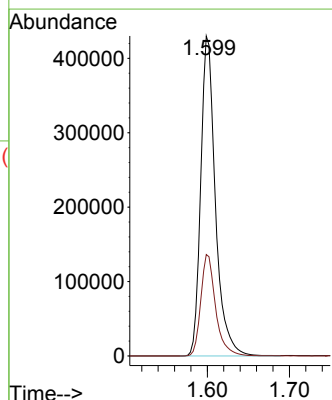
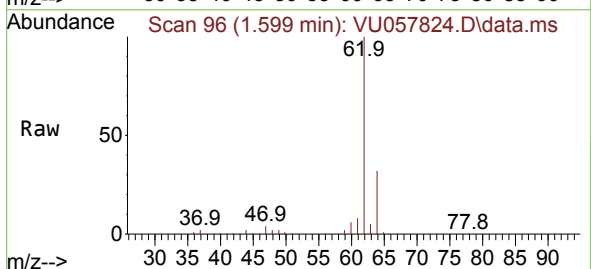
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

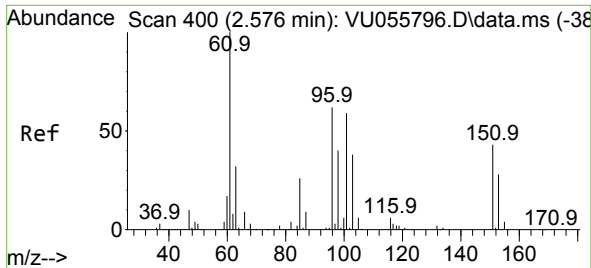
Tgt Ion: 96	Resp: 47016
Ion Ratio	Lower Upper
96 100	
70 21.2	16.5 24.7
95 9.2	7.4 11.0
97 0.0	0.0 0.0



#4
Vinyl Chloride
Concen: 35.062 ug/l
RT: 1.599 min Scan# 96
Delta R.T. -0.003 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion: 62	Resp: 534316
Ion Ratio	Lower Upper
62 100	
64 31.7	25.4 38.2

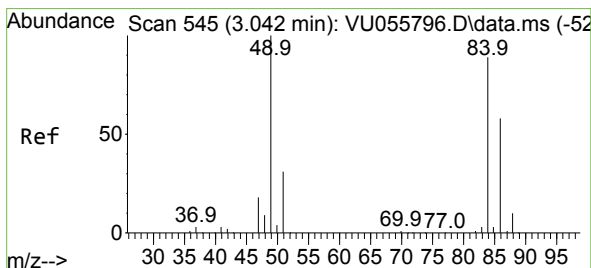
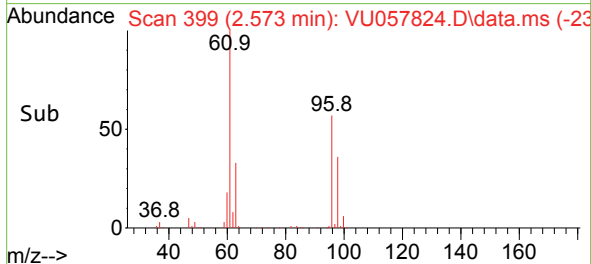
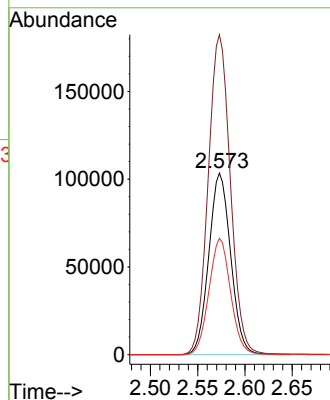
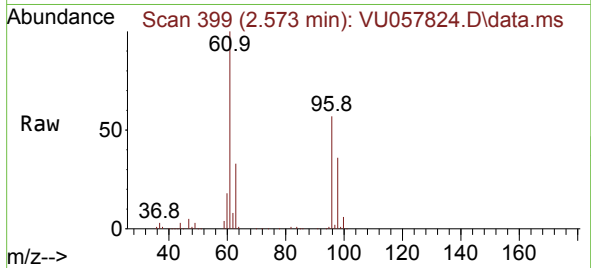




#9
1,1-Dichloroethene
Concen: 14.739 ug/l
RT: 2.573 min Scan# 399
Delta R.T. 0.013 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

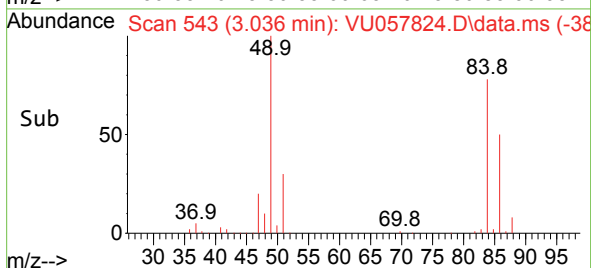
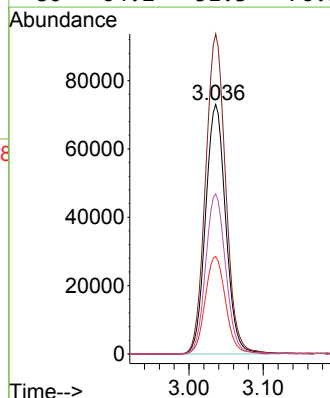
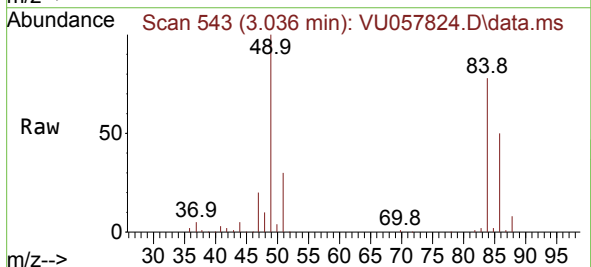
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

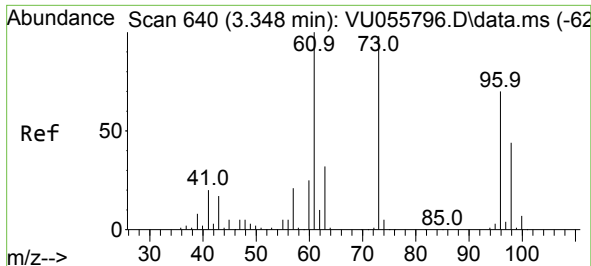
Tgt Ion: 96 Resp: 166801
Ion Ratio Lower Upper
96 100
61 176.2 0.0 521.4
98 64.0 0.0 125.8



#15
Methylene Chloride
Concen: 9.467 ug/l
RT: 3.036 min Scan# 543
Delta R.T. 0.010 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion: 84 Resp: 137556
Ion Ratio Lower Upper
84 100
49 128.3 98.9 148.3
51 39.0 0.0 75.4
86 64.2 51.3 76.9

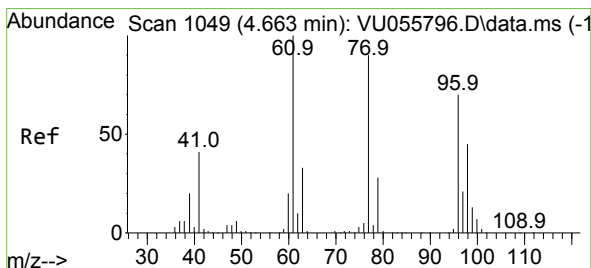
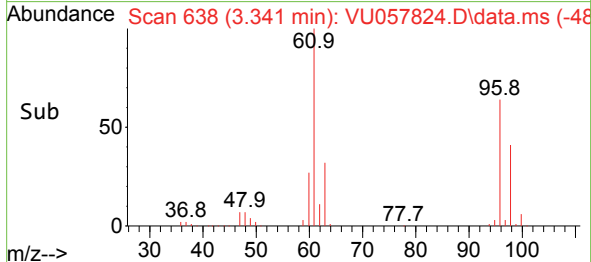
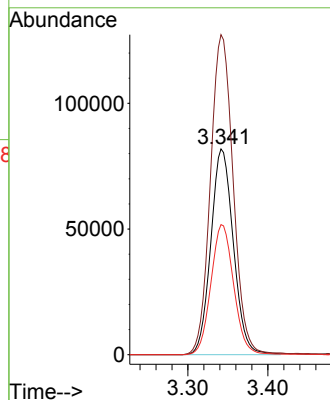
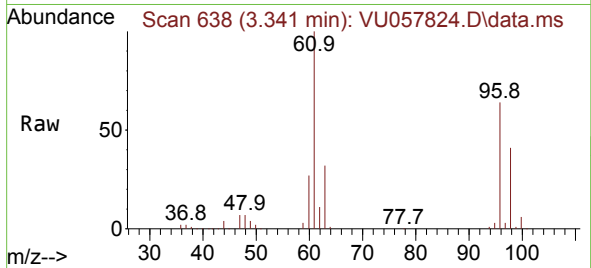




#16
trans-1,2-Dichloroethene
Concen: 13.068 ug/l
RT: 3.341 min Scan# 61
Delta R.T. 0.007 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

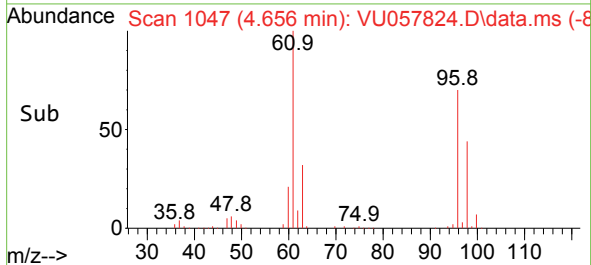
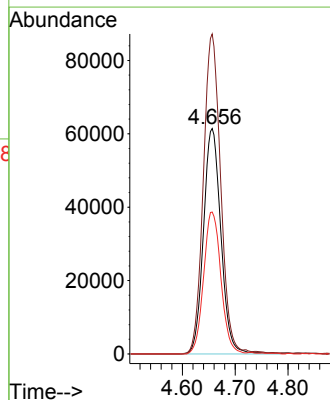
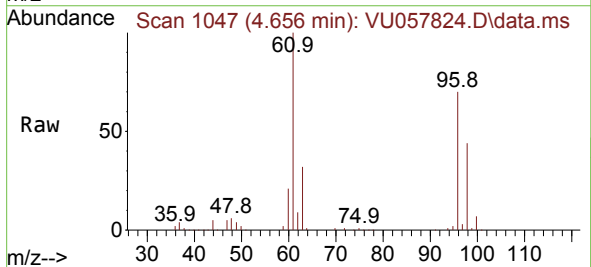
Instrument :
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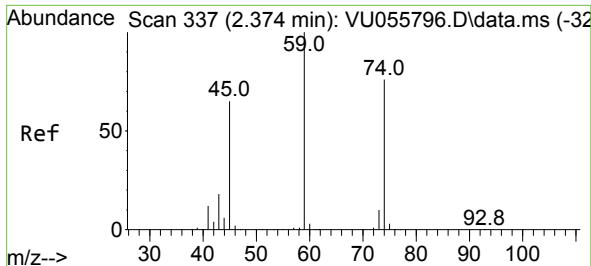
Tgt Ion: 96 Resp: 160520
Ion Ratio Lower Upper
96 100
61 155.5 117.5 176.3
98 63.2 48.3 72.5



#22
cis-1,2-Dichloroethene
Concen: 10.416 ug/l
RT: 4.656 min Scan# 1047
Delta R.T. 0.007 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion: 96 Resp: 140870
Ion Ratio Lower Upper
96 100
61 140.6 0.0 365.8
98 62.5 32.0 96.0

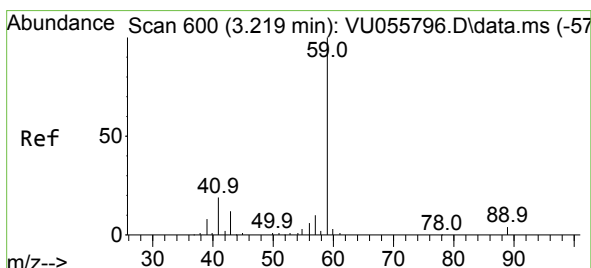
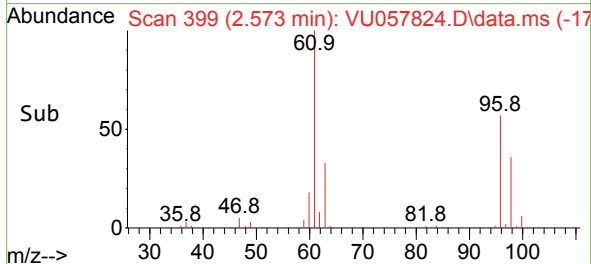
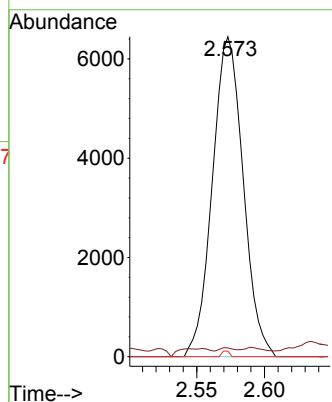
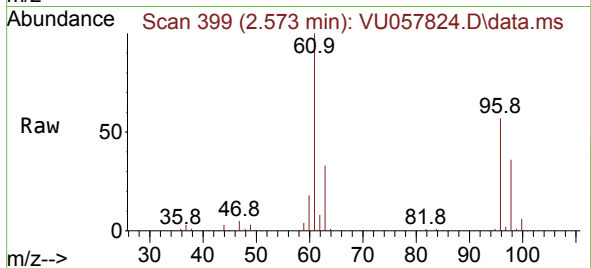




#23
Diethyl Ether
Concen: 1.166 ug/l
RT: 2.573 min Scan# 337
Delta R.T. 0.209 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

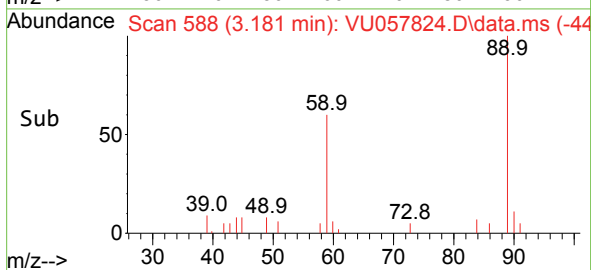
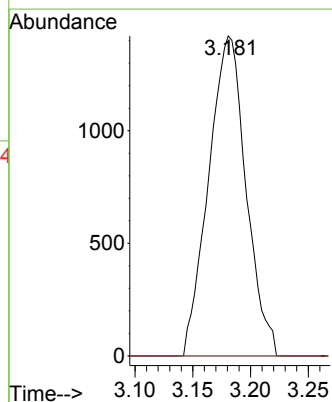
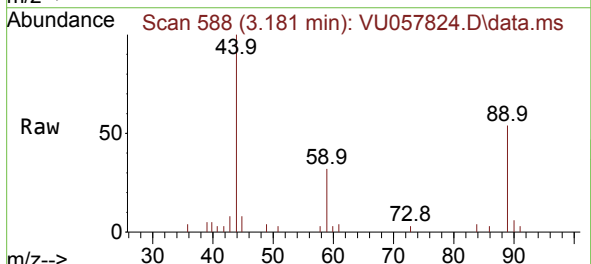
Instrument :
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PT-RVOA-WS

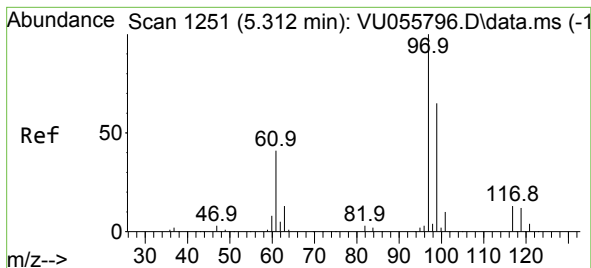
Tgt Ion: 59 Resp: 10178
Ion Ratio Lower Upper
59 100
45 0.9 56.1 84.1#
74 0.4 57.4 86.2#



#24
tert-Butyl Alcohol
Concen: 5.057 ug/l
RT: 3.181 min Scan# 588
Delta R.T. -0.051 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion: 59 Resp: 3204
Ion Ratio Lower Upper
59 100
57 0.0 105.6 158.4#





#28

1,1,1-Trichloroethane

Concen: 13.246 ug/l

RT: 5.303 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

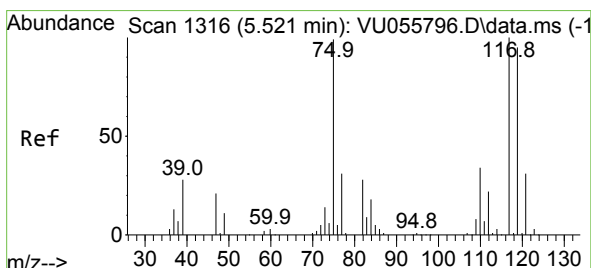
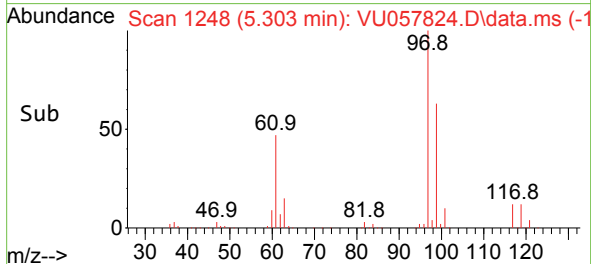
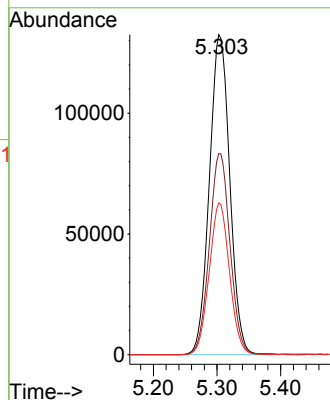
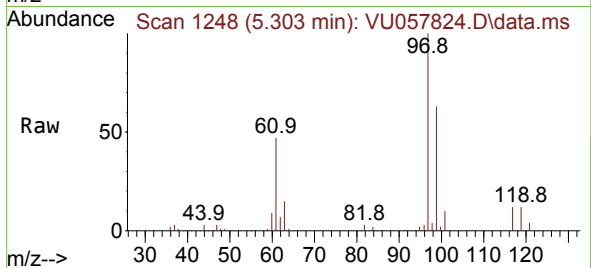
Tgt Ion: 97 Resp: 295320

Ion Ratio Lower Upper

97 100

99 63.7 32.0 96.2

61 47.3 22.9 68.5



#30

Carbon Tetrachloride

Concen: 10.749 ug/l

RT: 5.512 min Scan# 1313

Delta R.T. 0.003 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

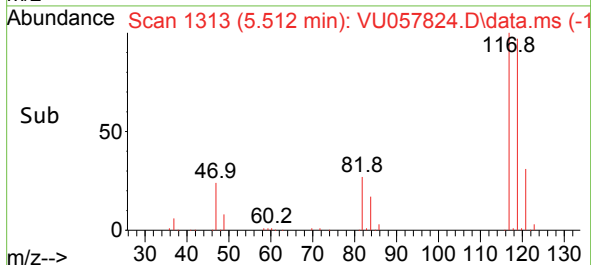
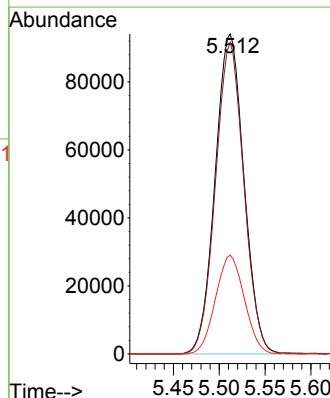
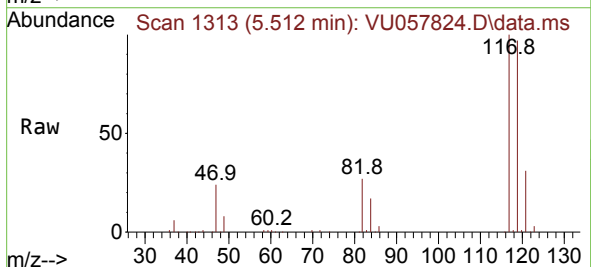
Tgt Ion: 117 Resp: 205369

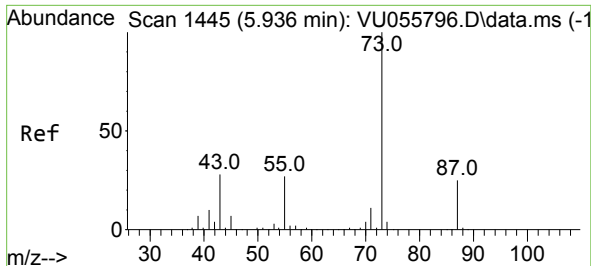
Ion Ratio Lower Upper

117 100

119 97.4 77.4 116.0

121 30.9 24.0 36.0

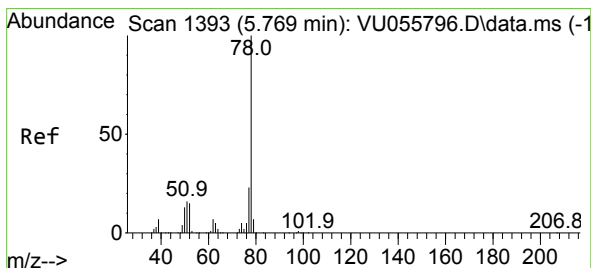
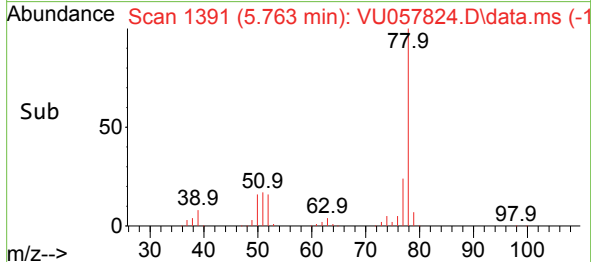
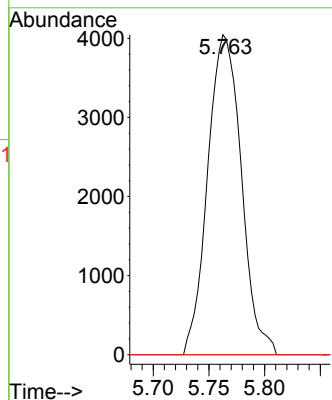
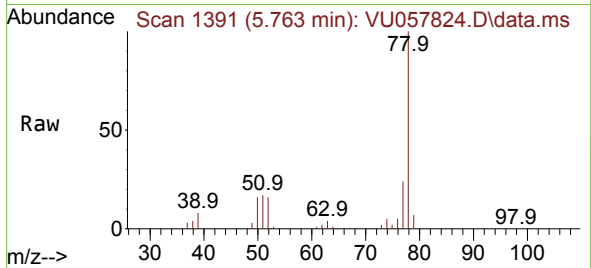




#33
Tert-Amyl methyl ether
Concen: 0.273 ug/l
RT: 5.763 min Scan# 1391
Delta R.T. -0.177 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

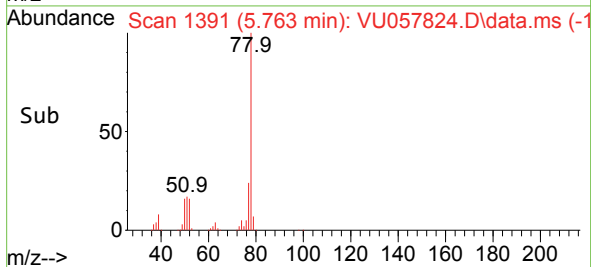
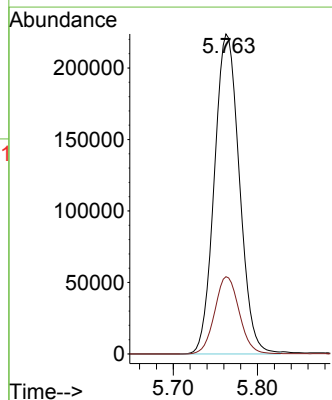
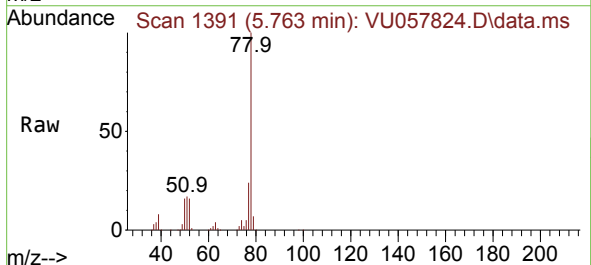
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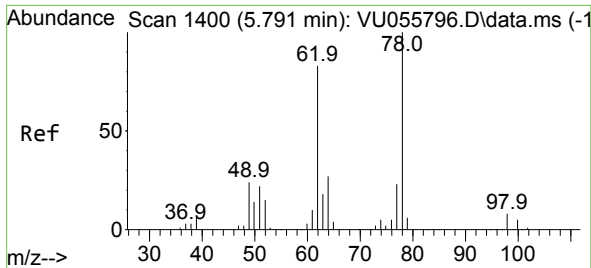
Tgt Ion: 73 Resp: 8504
Ion Ratio Lower Upper
73 100
87 0.0 18.6 28.0#
71 1.3 9.9 14.9#



#35
Benzene
Concen: 8.792 ug/l
RT: 5.763 min Scan# 1391
Delta R.T. 0.003 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion: 78 Resp: 461319
Ion Ratio Lower Upper
78 100
77 24.2 18.9 28.3

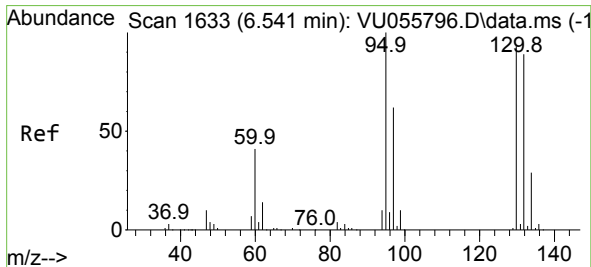
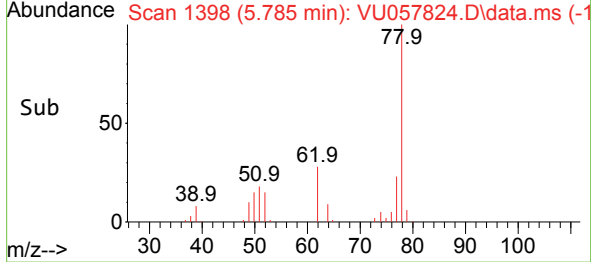
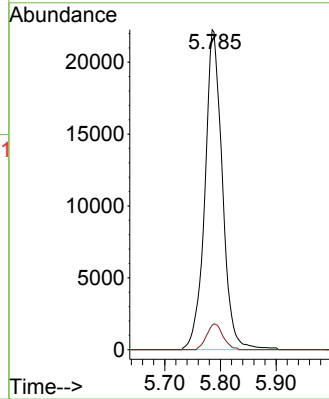
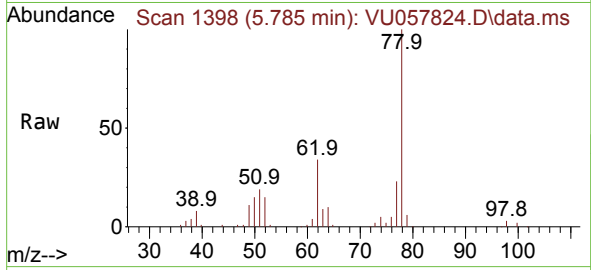




#36
1,2-Dichloroethane
Concen: 3.162 ug/l
RT: 5.785 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

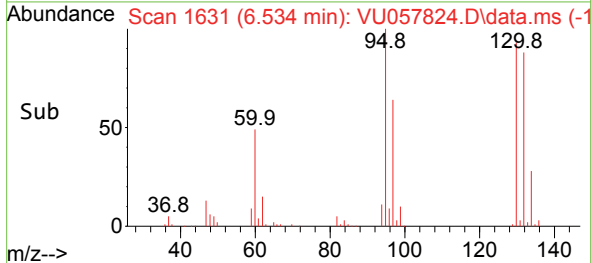
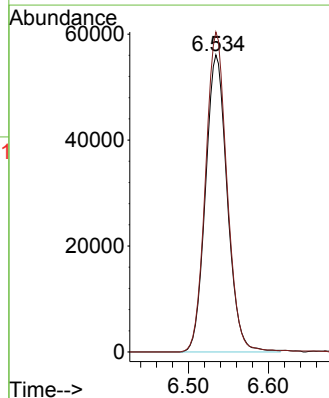
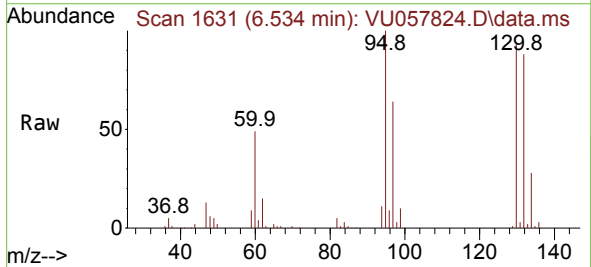
Instrument :
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PT-RVOA-WS

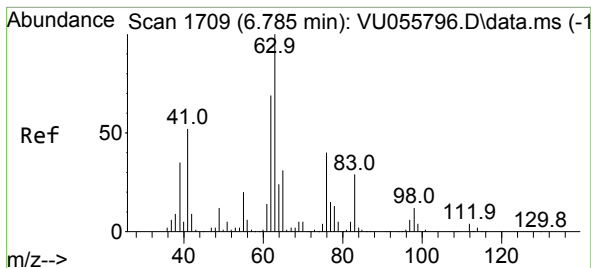
Tgt Ion: 62 Resp: 48513
Ion Ratio Lower Upper
62 100
98 7.6 7.3 10.9



#37
Trichloroethene
Concen: 7.846 ug/l
RT: 6.534 min Scan# 1631
Delta R.T. 0.003 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion:130 Resp: 106005
Ion Ratio Lower Upper
130 100
95 107.7 85.0 127.6





#38

1,2-Dichloropropane

Concen: 15.618 ug/l

RT: 6.785 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Instrument :

MSVOA_U

ClientSampleId :

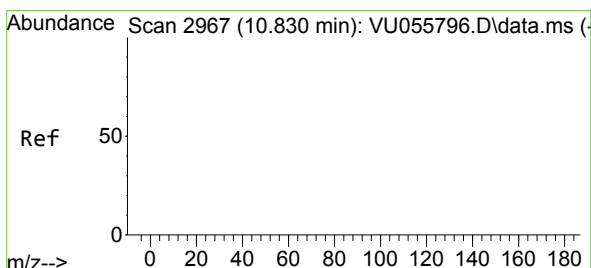
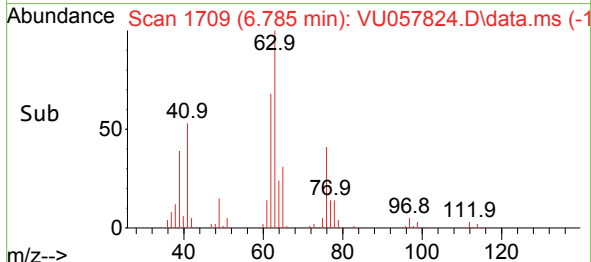
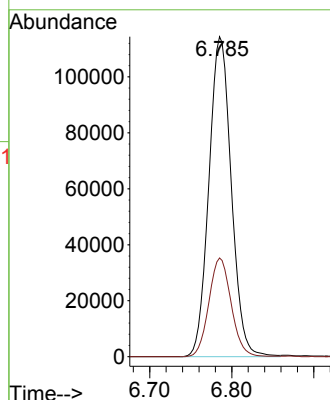
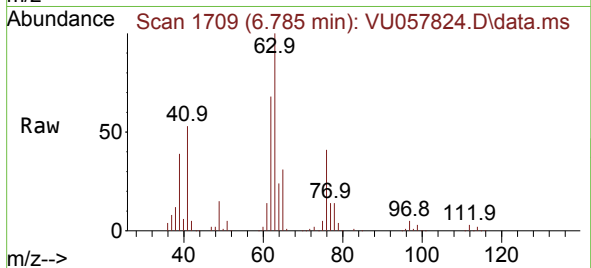
PT-RVOA-WS

Tgt Ion: 63 Resp: 216725

Ion Ratio Lower Upper

63 100

65 30.9 24.9 37.3



#46

t-1,4-Dichloro-2-butene

Concen: 4.754 ug/l

RT: 10.630 min Scan# 2905

Delta R.T. -0.206 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Tgt Ion: 75 Resp: 9082

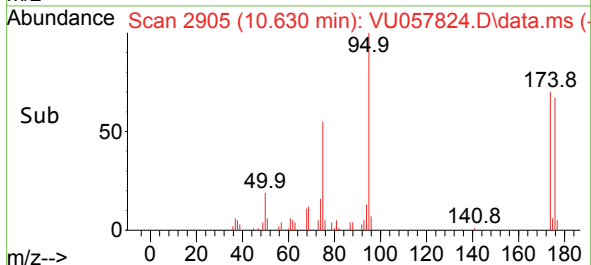
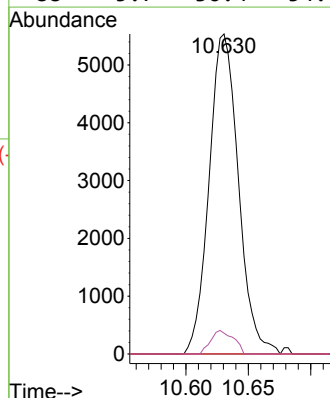
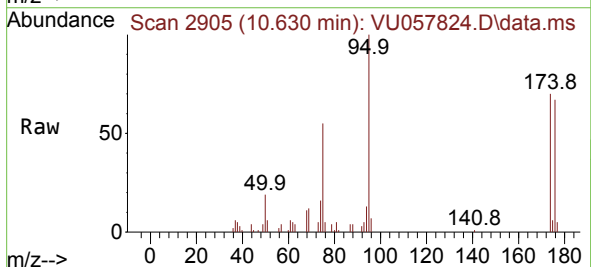
Ion Ratio Lower Upper

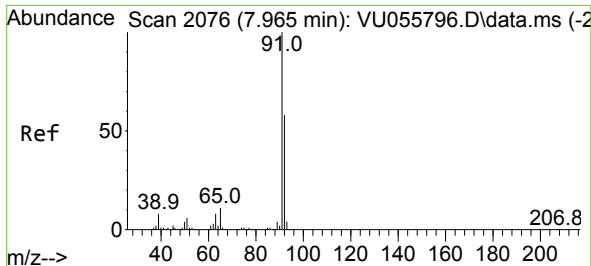
75 100

53 0.0 73.3 109.9#

89 0.0 48.2 72.4#

88 5.7 36.4 54.6#





#49

Toluene

Concen: 2.900 ug/l

RT: 7.965 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Instrument :

MSVOA_U

ClientSampleId :

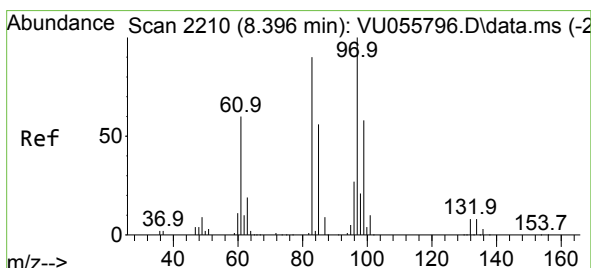
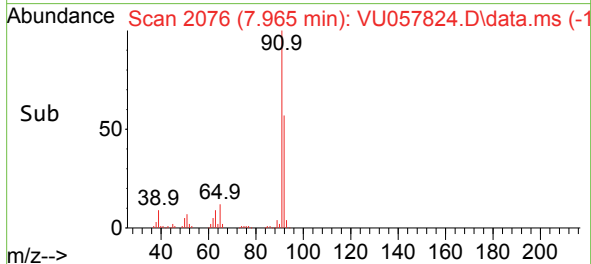
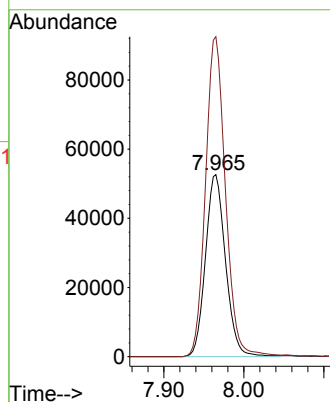
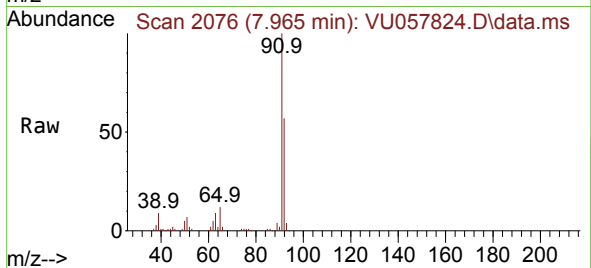
PT-RVOA-WS

Tgt Ion: 92 Resp: 91994

Ion Ratio Lower Upper

92 100

91 174.1 143.0 214.6



#52

1,1,2-Trichloroethane

Concen: 9.775 ug/l

RT: 8.396 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Tgt Ion: 97 Resp: 85722

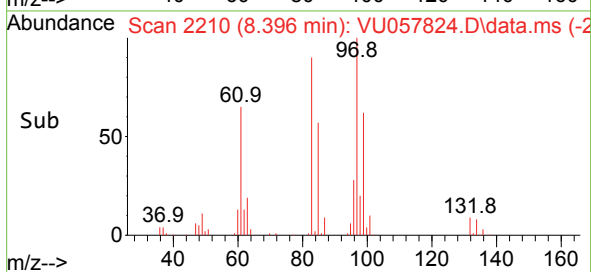
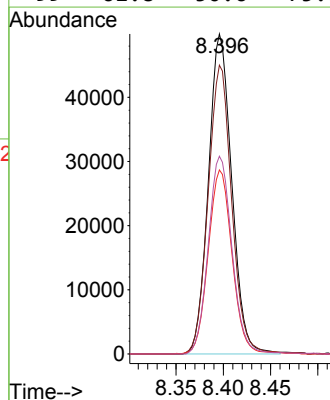
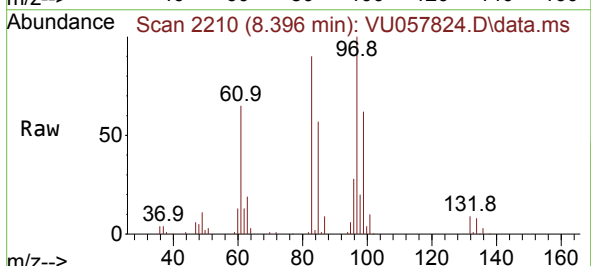
Ion Ratio Lower Upper

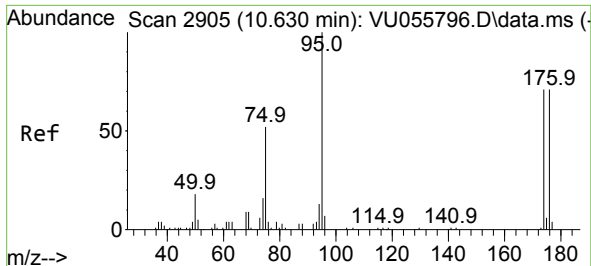
97 100

83 90.3 71.8 107.8

85 57.5 45.2 67.8

99 61.8 50.6 75.8

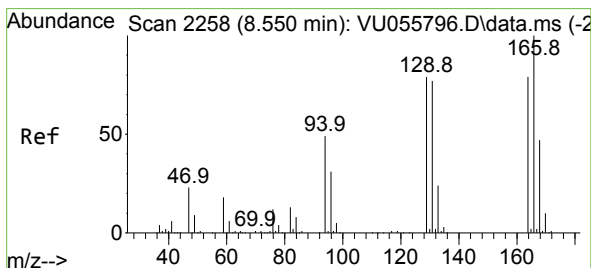
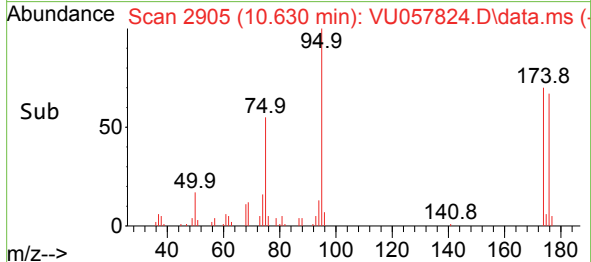
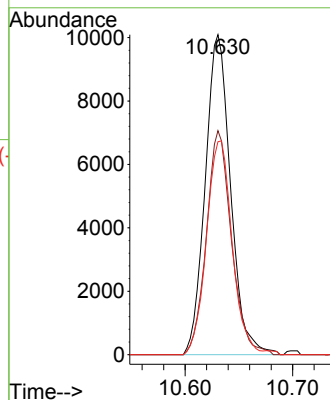
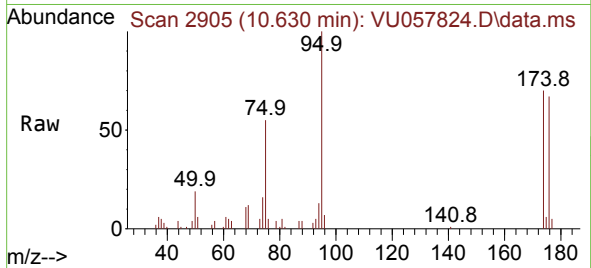




#57
4-Bromofluorobenzene
Concen: 0.958 ug/l
RT: 10.630 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

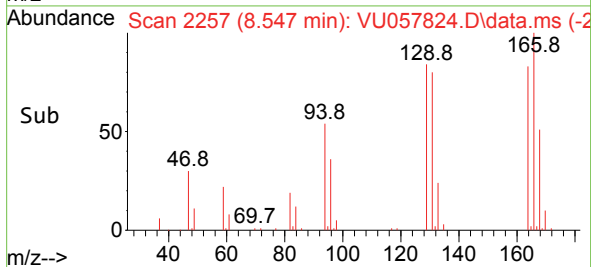
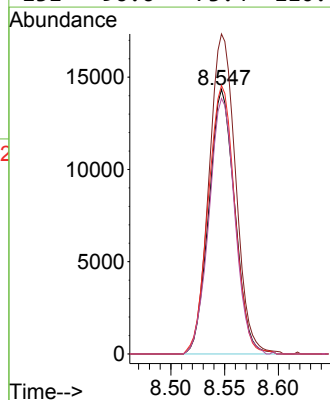
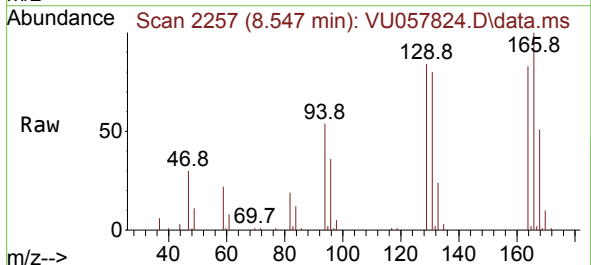
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

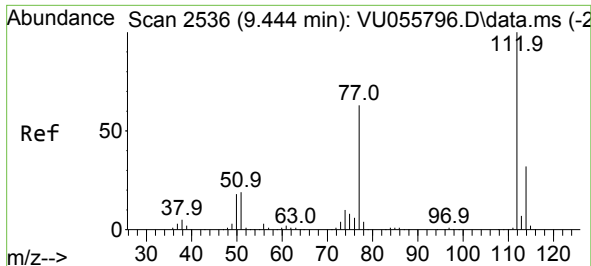
Tgt Ion: 95 Resp: 16538
Ion Ratio Lower Upper
95 100
174 69.3 63.3 94.9
176 67.6 59.3 88.9



#58
Tetrachloroethene
Concen: 2.054 ug/l
RT: 8.547 min Scan# 2257
Delta R.T. 0.000 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion: 164 Resp: 24071
Ion Ratio Lower Upper
164 100
166 120.9 99.6 149.4
129 101.5 78.6 117.8
131 96.6 73.4 110.0





#59

Chlorobenzene

Concen: 11.023 ug/l

RT: 9.441 min Scan# 2

Delta R.T. 0.000 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Instrument :

MSVOA_U

ClientSampleId :

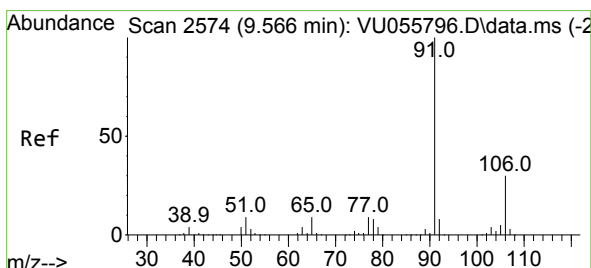
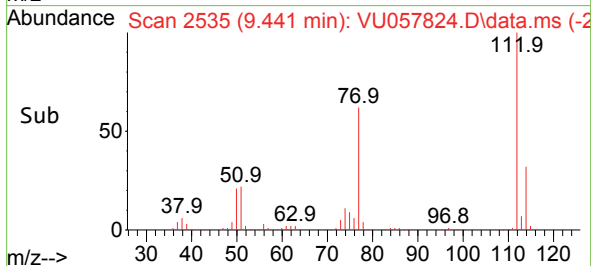
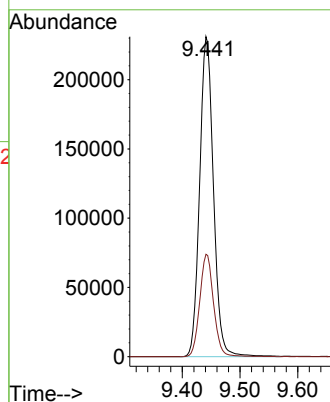
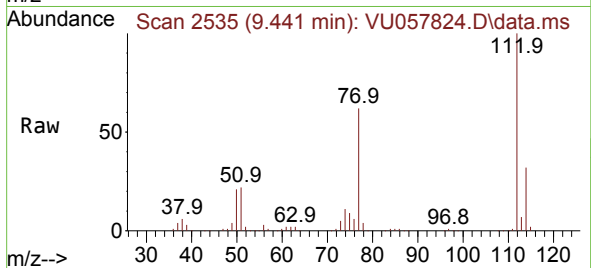
PT-RVOA-WS

Tgt Ion:112 Resp: 384555

Ion Ratio Lower Upper

112 100

114 32.0 25.6 38.4



#63

Ethyl Benzene

Concen: 17.710 ug/l

RT: 9.563 min Scan# 2573

Delta R.T. 0.000 min

Lab File: VU057824.D

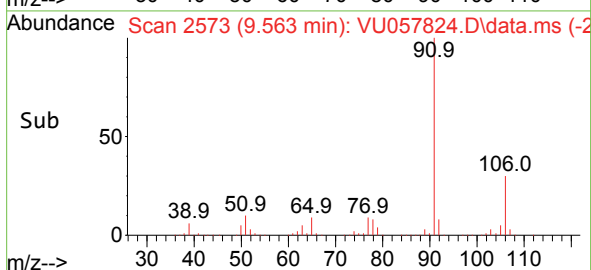
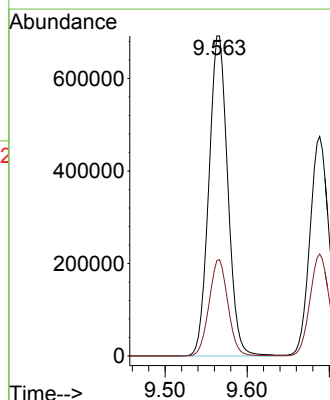
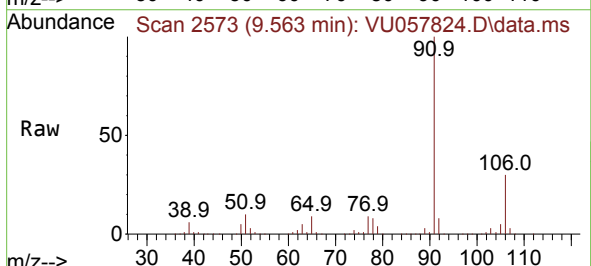
Acq: 06 Feb 2024 16:41

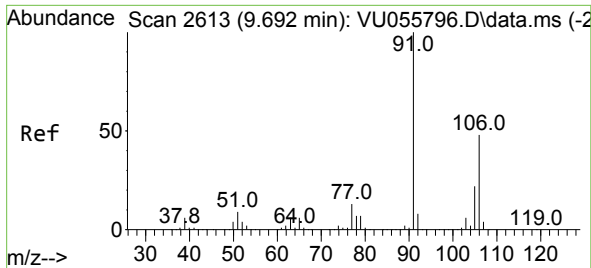
Tgt Ion: 91 Resp: 1111866

Ion Ratio Lower Upper

91 100

106 29.8 24.2 36.2

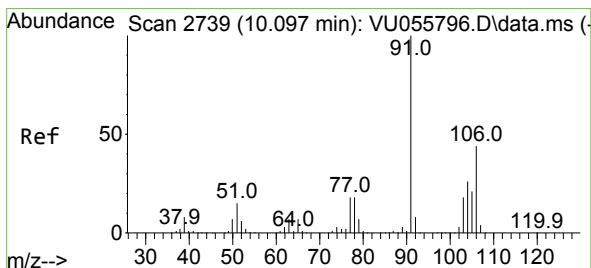
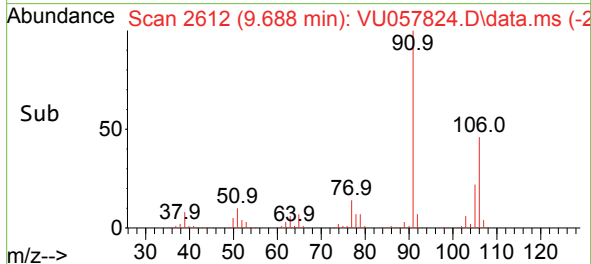
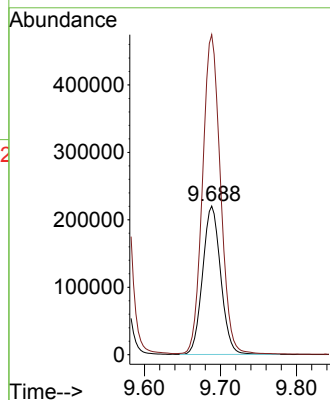
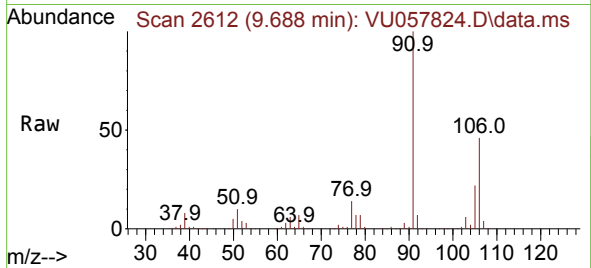




#64
m/p-Xylenes
Concen: 15.786 ug/l
RT: 9.688 min Scan# 2612
Delta R.T. 0.000 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

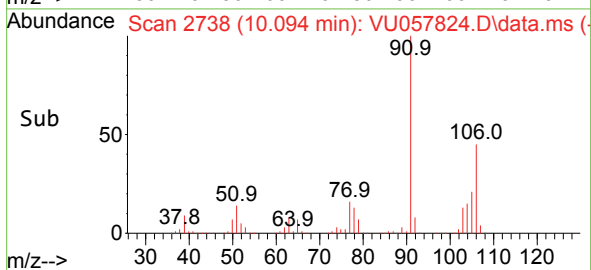
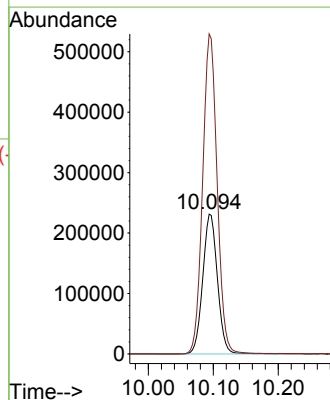
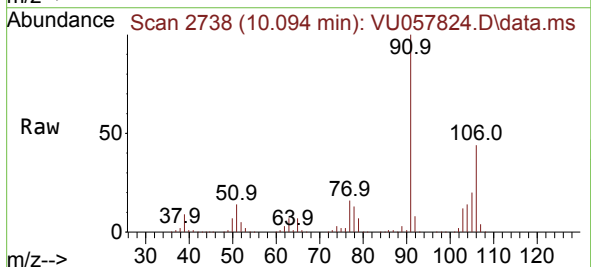
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

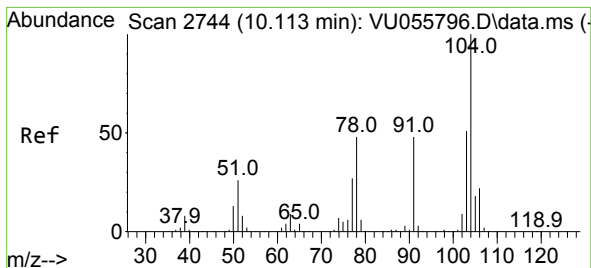
Tgt Ion:106 Resp: 363126
Ion Ratio Lower Upper
106 100
91 215.2 167.3 250.9



#65
o-Xylene
Concen: 15.920 ug/l
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion:106 Resp: 363804
Ion Ratio Lower Upper
106 100
91 226.8 109.3 327.9





#66

Styrene

Concen: 10.285 ug/l

RT: 10.110 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

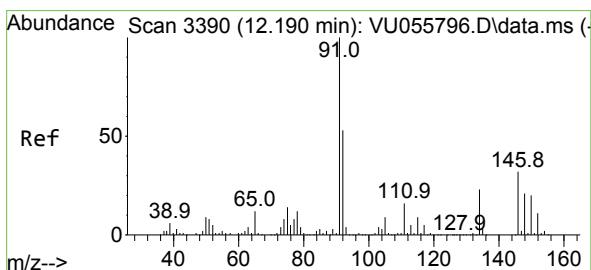
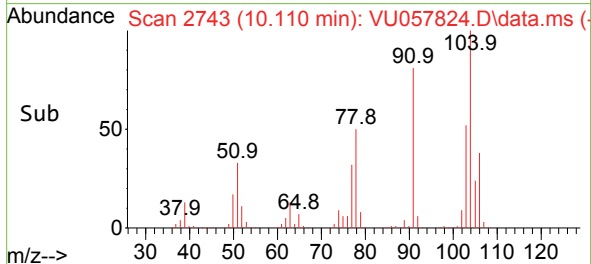
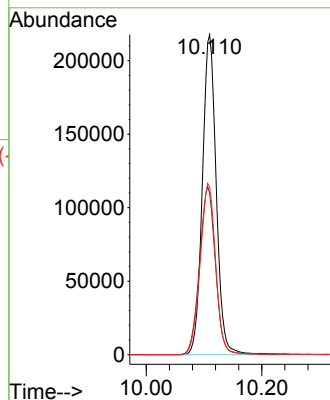
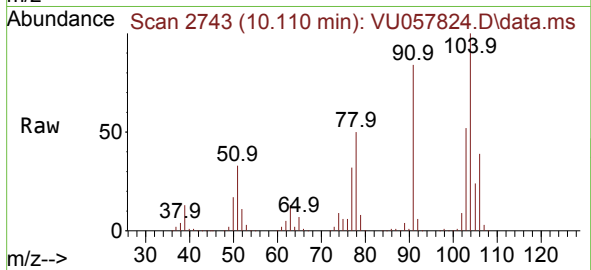
Tgt Ion:104 Resp: 362975

Ion Ratio Lower Upper

104 100

78 59.8 39.7 59.5#

103 60.1 44.8 67.2



#68

1,2-Dichlorobenzene-d4

Concen: 0.990 ug/l

RT: 12.187 min Scan# 3389

Delta R.T. -0.006 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

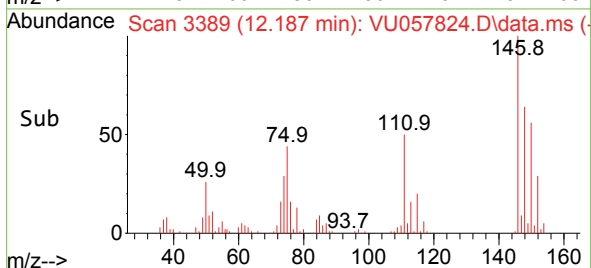
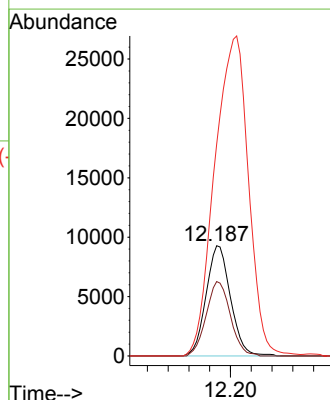
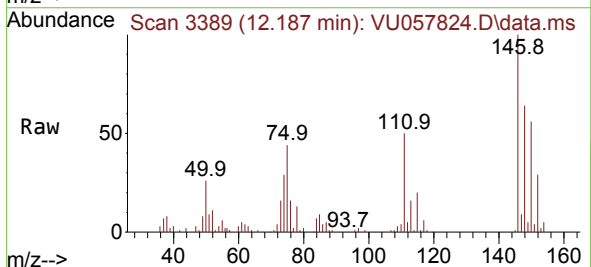
Tgt Ion:152 Resp: 15102

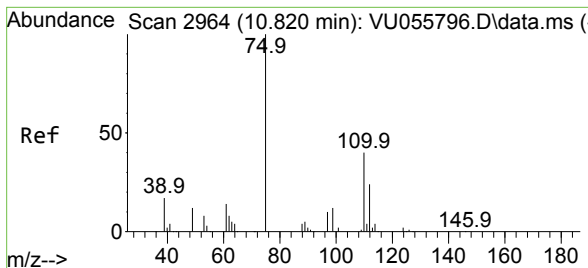
Ion Ratio Lower Upper

152 100

115 66.9 0.0 308.8

150 401.8 0.0 635.0

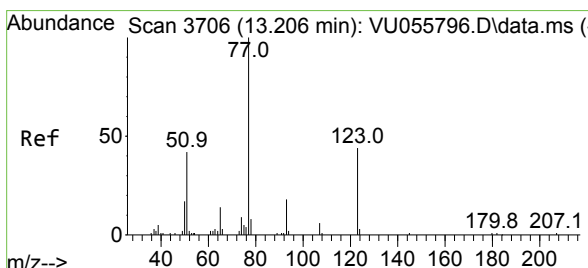
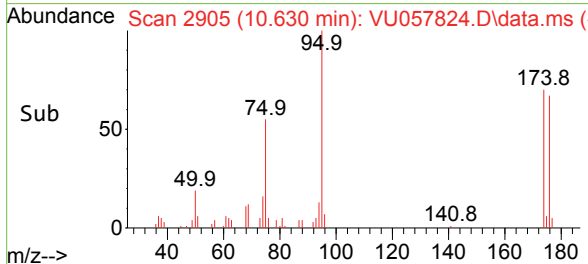
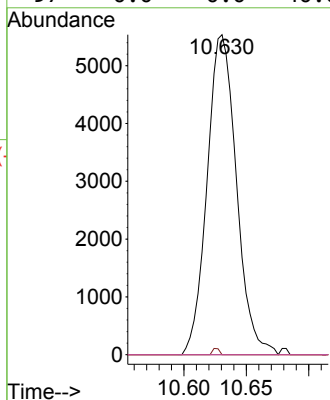
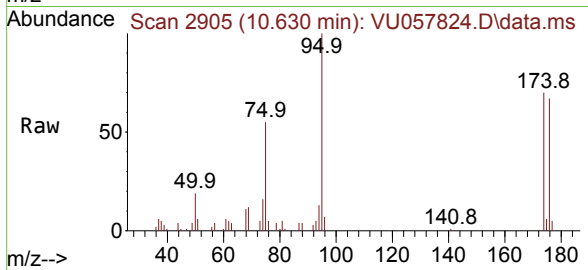




#71
1,2,3-Trichloropropane
Concen: 0.973 ug/l
RT: 10.630 min Scan# 2964
Delta R.T. -0.202 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

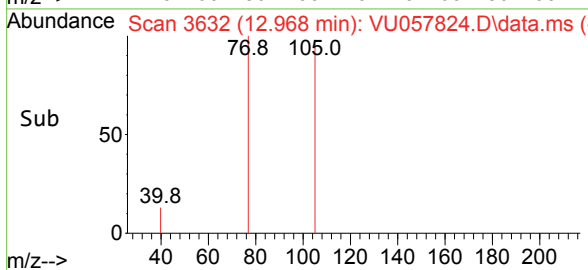
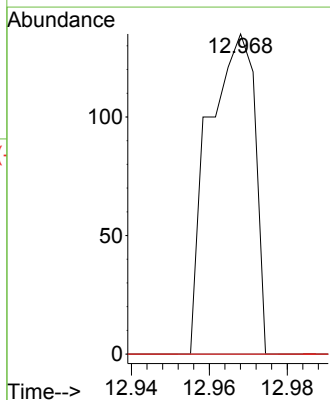
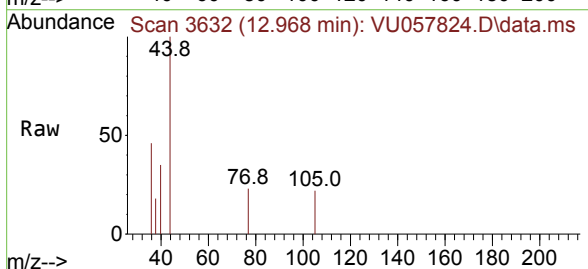
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

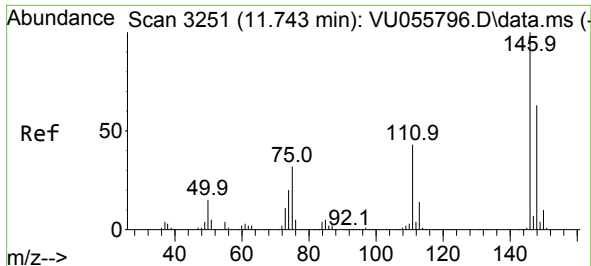
Tgt Ion:	75	Resp:	9082
Ion	Ratio	Lower	Upper
75	100		
77	0.5	0.0	116.4
110	0.0	0.0	74.6
97	0.0	0.0	40.0



#80
Nitrobenzene
Concen: 2.368 ug/l
RT: 12.968 min Scan# 3632
Delta R.T. -0.238 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion:	77	Resp:	111
Ion	Ratio	Lower	Upper
77	100		
123	0.0	19.7	69.7#
65	0.0	11.5	14.7#





#82

1,3-Dichlorobenzene

Concen: 2.901 ug/l

RT: 11.833 min Scan# 3279

Delta R.T. 0.090 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

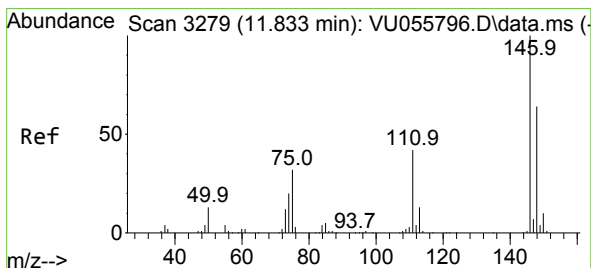
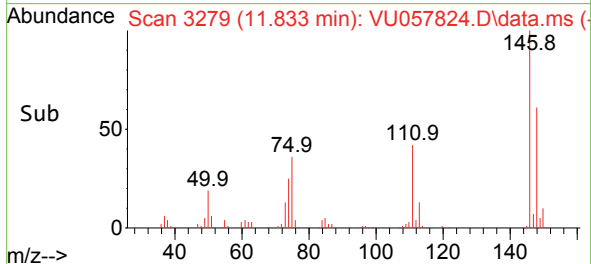
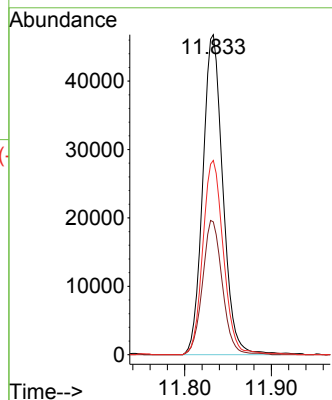
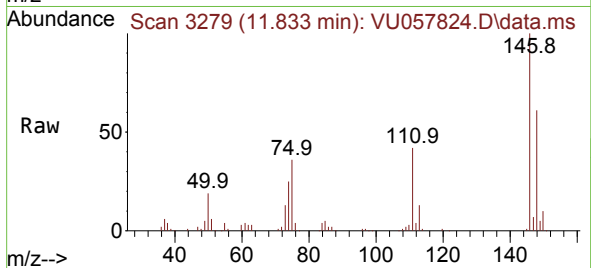
Tgt Ion:146 Resp: 75324

Ion Ratio Lower Upper

146 100

111 41.3 32.6 49.0

148 62.2 51.0 76.4



#83

1,4-Dichlorobenzene

Concen: 2.928 ug/l

RT: 11.833 min Scan# 3279

Delta R.T. -0.003 min

Lab File: VU057824.D

Acq: 06 Feb 2024 16:41

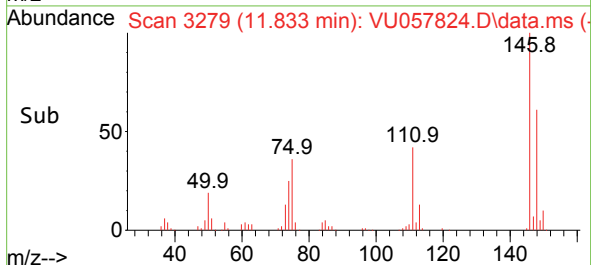
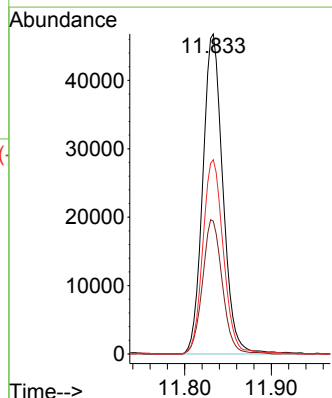
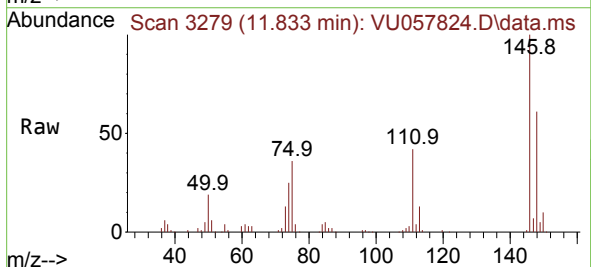
Tgt Ion:146 Resp: 75324

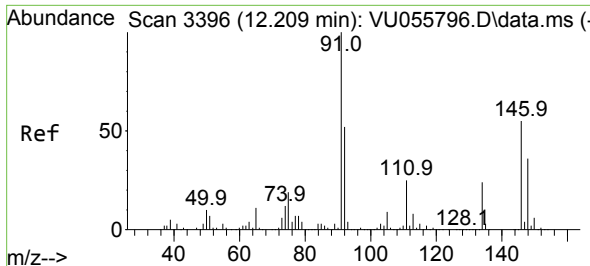
Ion Ratio Lower Upper

146 100

111 41.3 31.6 47.4

148 62.2 50.3 75.5

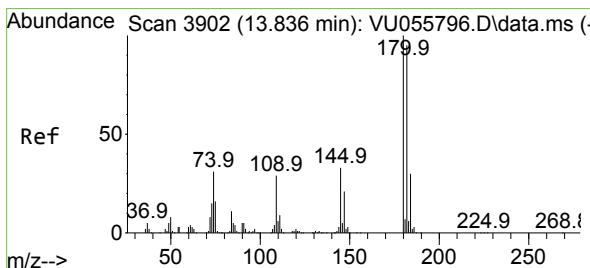
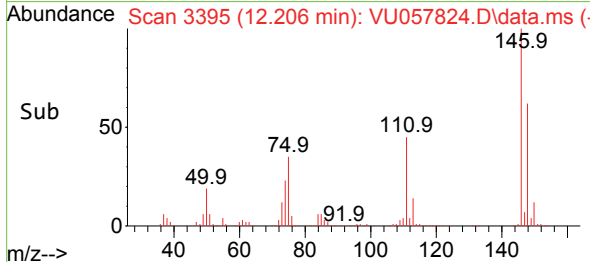
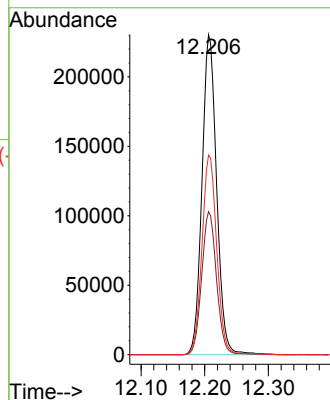
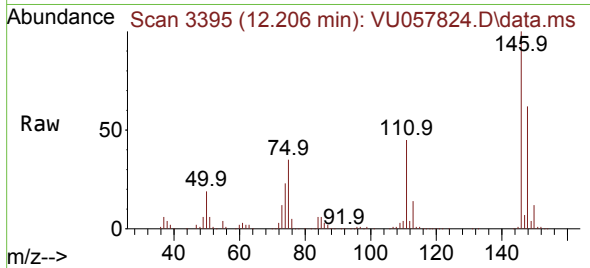




#85
1,2-Dichlorobenzene
Concen: 15.258 ug/l
RT: 12.206 min Scan# 31
Delta R.T. -0.006 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

Tgt Ion:146 Resp: 367940
Ion Ratio Lower Upper
146 100
111 45.4 21.6 64.6
148 63.2 32.1 96.5



#87
1,2,4-Trichlorobenzene
Concen: 13.523 ug/l
RT: 13.836 min Scan# 3902
Delta R.T. 0.000 min
Lab File: VU057824.D
Acq: 06 Feb 2024 16:41

Tgt Ion:180 Resp: 199102
Ion Ratio Lower Upper
180 100
182 95.5 75.8 113.6
145 32.2 23.9 35.9

