

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU013123\
 Data File : VU052881.D
 Acq On : 31 Jan 2023 15:42
 Operator : JC/MD
 Sample : 01314-13
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 01 00:56:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 01 00:53:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	238737	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	244885	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	138044	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	62415	36.323	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	72.640%		
7) Chloroethane-d5	1.909	69	62978	44.480	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.960%		
11) 1,1-Dichloroethene-d2	2.565	63	102422	29.968	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	59.940%#		
21) 2-Butanone-d5	4.620	46	104922	98.843	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	98.840%		
24) Chloroform-d	5.057	84	168404	45.922	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.840%		
26) 1,2-Dichloroethane-d4	5.697	65	111997	47.830	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.660%		
32) Benzene-d6	5.722	84	306170	40.923	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	81.840%		
36) 1,2-Dichloropropane-d6	6.687	67	97683	44.518	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	89.040%		
41) Toluene-d8	7.893	98	261179	38.337	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	76.680%#		
43) trans-1,3-Dichloroprop...	8.176	79	45056	40.968	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	81.940%		
47) 2-Hexanone-d5	8.629	63	69037	89.543	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	89.540%		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	148127	45.691	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	91.380%		
66) 1,2-Dichlorobenzene-d4	12.401	152	78	0.029	ug/L	0.21
Spiked Amount 50.000	Range 80 - 120		Recovery =	0.060%#		
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	5948	2.916	ug/L #	82
8) Chloroethane	1.604	64	2738	2.137	ug/L #	59
12) 1,1-Dichloroethene	2.568	96	1445	0.818	ug/L #	1
20) cis-1,2-Dichloroethene	4.661	96	21399	10.501	ug/L	98
33) Benzene	5.771	78	57609	6.911	ug/L	100
34) Trichloroethene	6.539	95	57470	27.124	ug/L	99
51) Chlorobenzene	9.443	112	706641	120.223	ug/L	99
52) Ethylbenzene	9.565	91	142847	15.646	ug/L	100
60) 1,2,3-Trichloropropane	11.738	75	33034	12.337	ug/L #	48
63) 1,2,4-Trimethylbenzene	11.465	105	8291	1.154	ug/L	98
64) 1,3-Dichlorobenzene	11.742	146	109238	24.285	ug/L	100
65) 1,4-Dichlorobenzene	11.832	146	263865	56.664	ug/L	99
67) 1,2-Dichlorobenzene	12.208	146	864657	190.045	ug/L	99
68) 1,2-Dibromo-3-chloropr...	13.211	75	2873	3.743	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.214	180	17049	5.120	ug/L	96
70) 1,2,4-trichlorobenzene	13.848	180	13526761	4845.013	ug/L	98
71) Naphthalene	14.082	128	258963	32.277	ug/L	100
72) 1,2,3-Trichlorobenzene	14.327	180	2969600	1006.462	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Wed Feb 01 00:53:48 2023
Response via : Initial Calibration

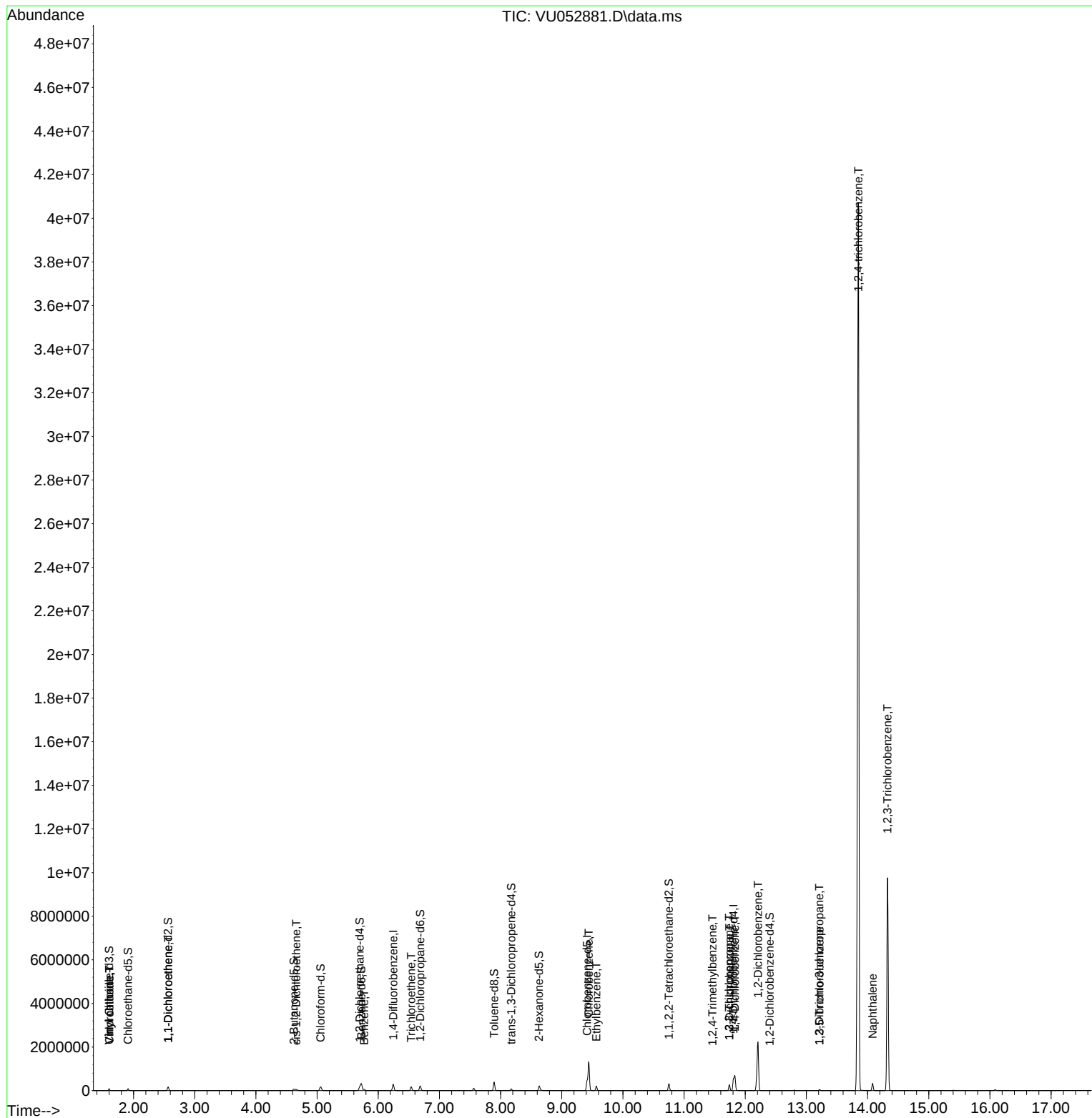
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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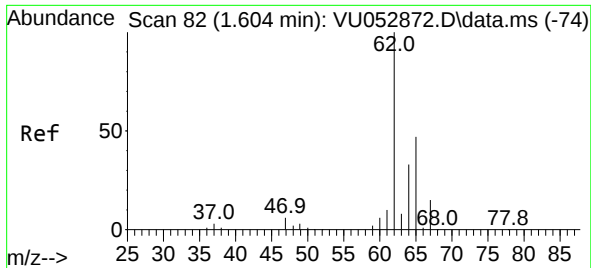
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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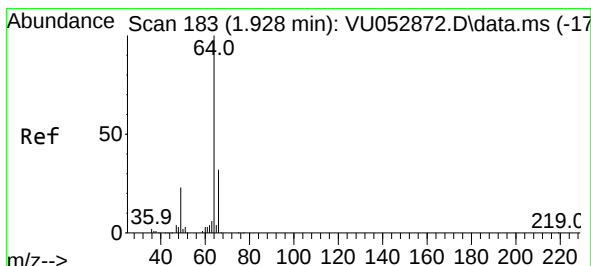
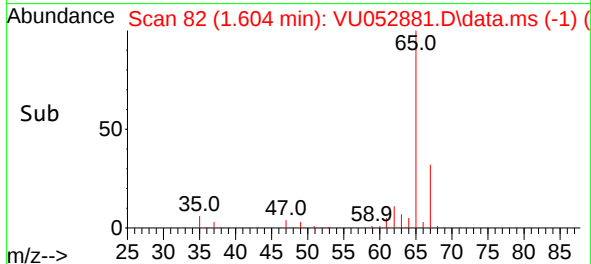
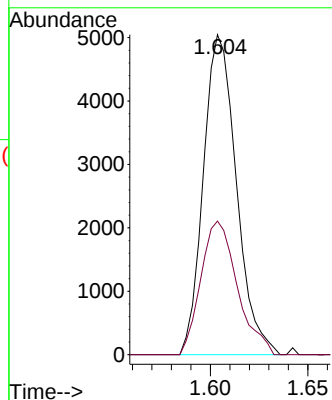
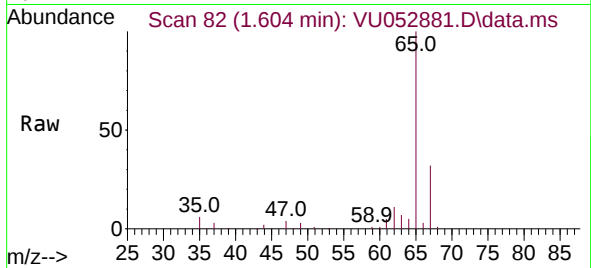




#5
 Vinyl chloride
 Concen: 2.916 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.000 min
 Lab File: VU052881.D
 Acq: 31 Jan 2023 15:42

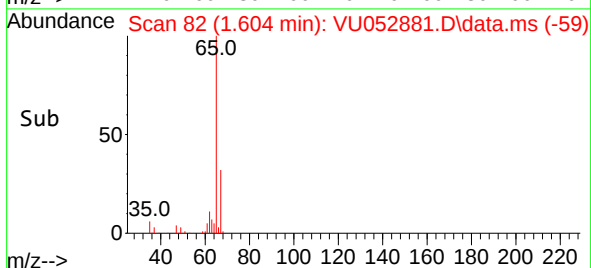
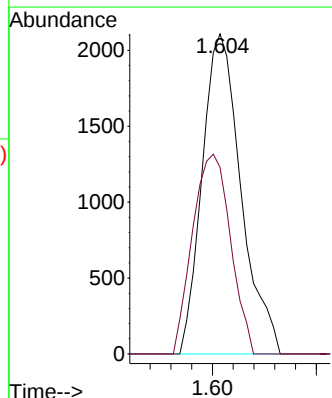
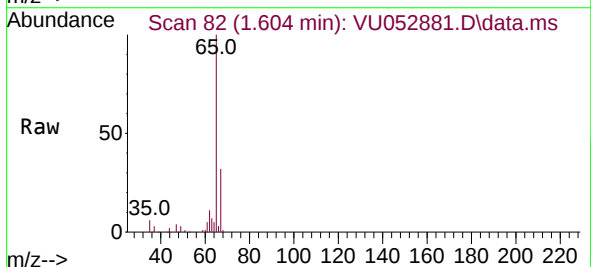
Instrument :
 MSVOA_U
 ClientSampleId :

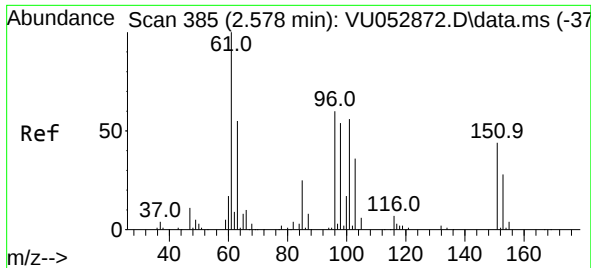
Tgt Ion: 62 Resp: 5948
 Ion Ratio Lower Upper
 62 100
 64 41.8 22.4 41.6#



#8
 Chloroethane
 Concen: 2.137 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.325 min
 Lab File: VU052881.D
 Acq: 31 Jan 2023 15:42

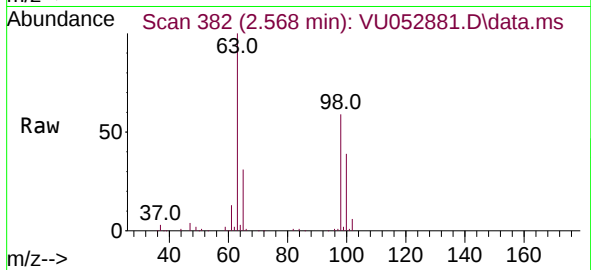
Tgt Ion: 64 Resp: 2738
 Ion Ratio Lower Upper
 64 100
 66 58.3 24.1 44.7#



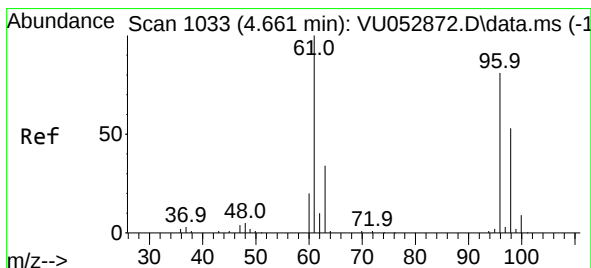
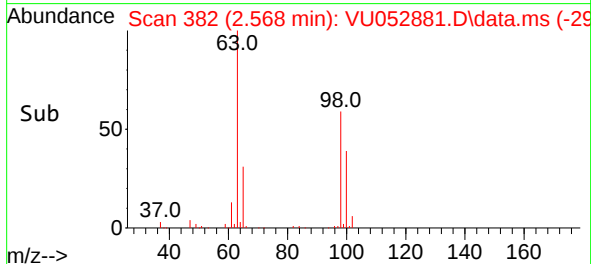
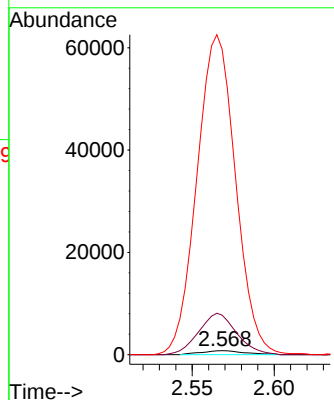


#12
1,1-Dichloroethene
Concen: 0.818 ug/L
RT: 2.568 min Scan# 31
Delta R.T. -0.010 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

Instrument :
MSVOA_U
ClientSampleId :

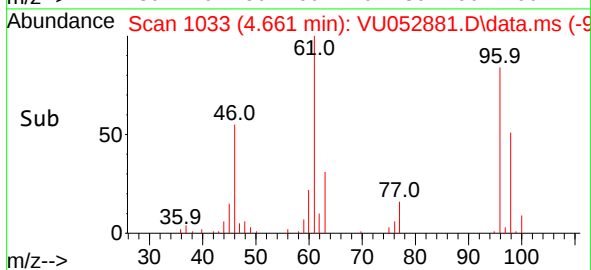
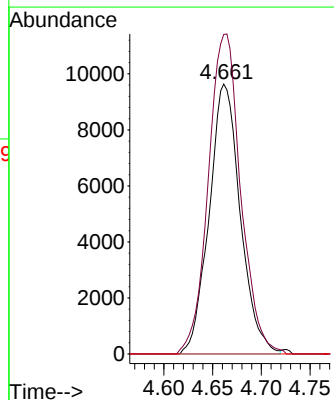
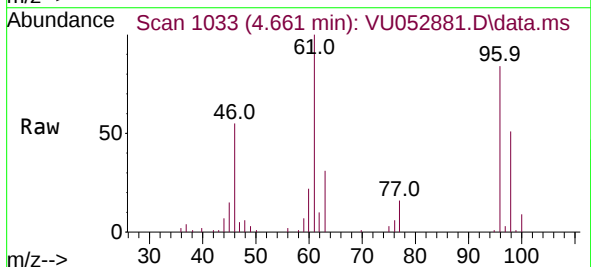


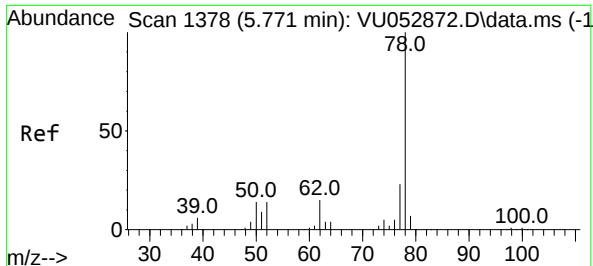
Tgt Ion: 96 Resp: 1445
Ion Ratio Lower Upper
96 100
61 1003.1 114.3 212.3#
63 7752.7 80.6 149.6#



#20
cis-1,2-Dichloroethene
Concen: 10.501 ug/L
RT: 4.661 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

Tgt Ion: 96 Resp: 21399
Ion Ratio Lower Upper
96 100
61 118.4 84.1 156.1
68 0.0 0.0 0.0

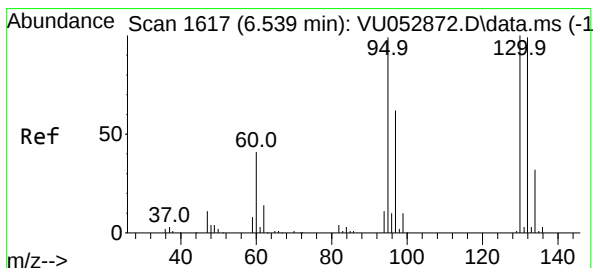
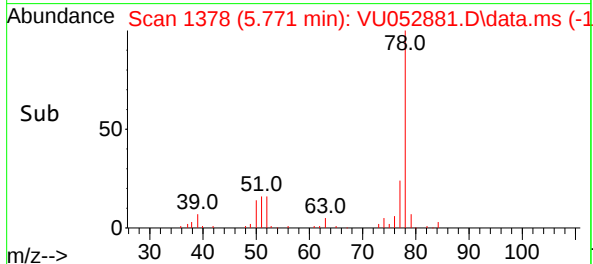
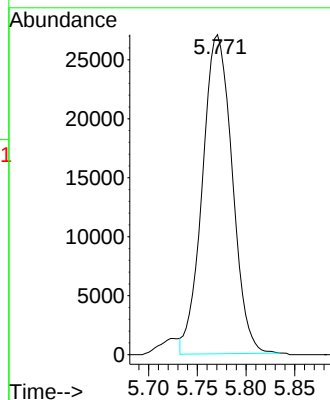
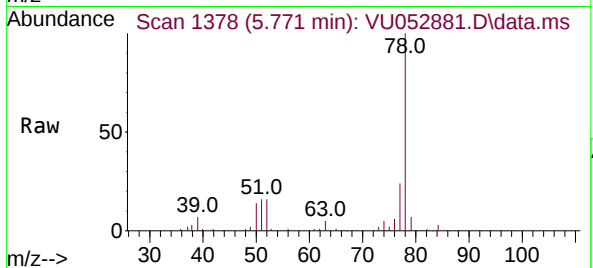




#33
Benzene
Concen: 6.911 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

Instrument :
MSVOA_U
ClientSampleId :

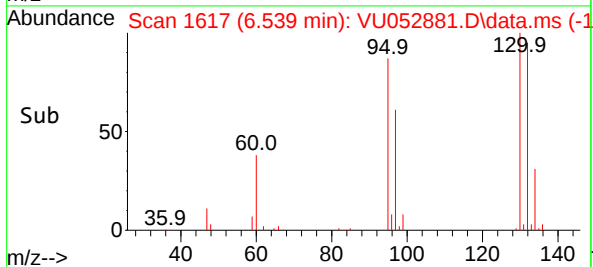
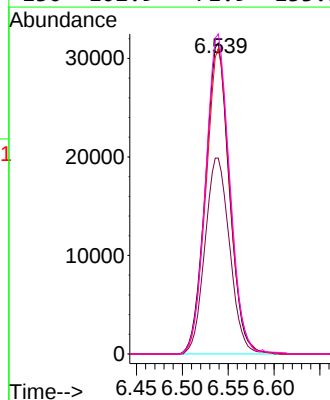
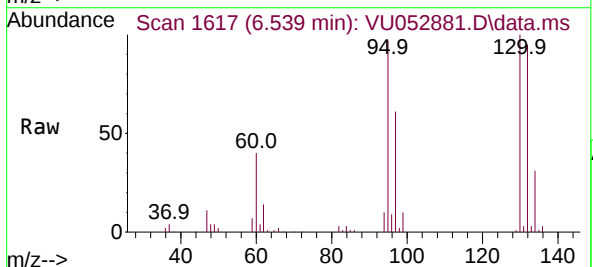
Tgt Ion: 78 Resp: 57609

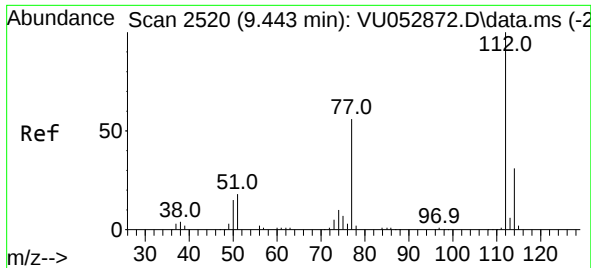


#34
Trichloroethene
Concen: 27.124 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

Tgt Ion: 95 Resp: 57470

Ion	Ratio	Lower	Upper
95	100		
97	63.0	44.5	82.7
132	98.3	66.8	124.0
130	102.9	71.9	133.5

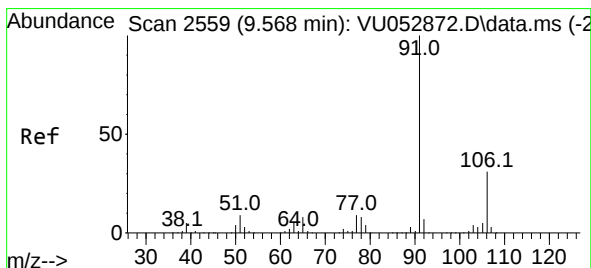
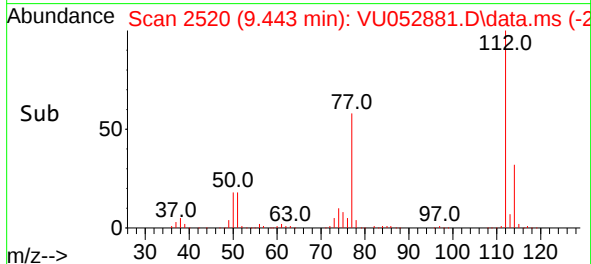
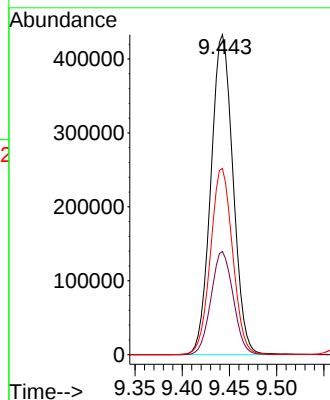
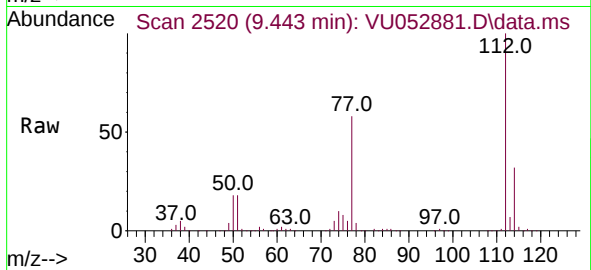




#51
Chlorobenzene
Concen: 120.223 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

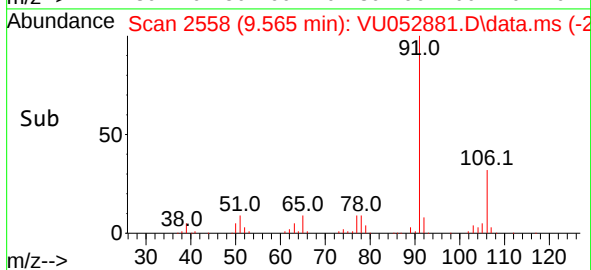
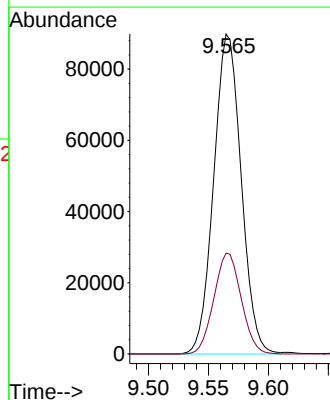
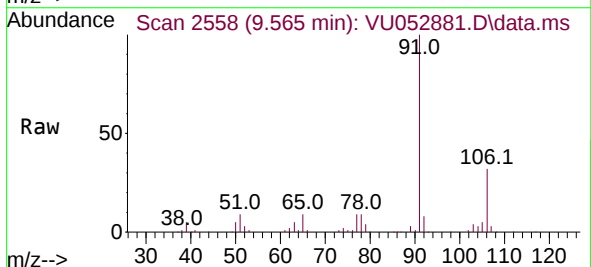
Instrument :
MSVOA_U
ClientSampleId :

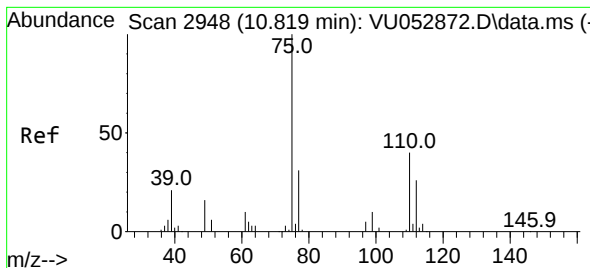
Tgt Ion:112 Resp: 706641
Ion Ratio Lower Upper
112 100
114 32.3 22.8 42.4
77 58.2 45.9 68.9



#52
Ethylbenzene
Concen: 15.646 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. -0.003 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

Tgt Ion: 91 Resp: 142847
Ion Ratio Lower Upper
91 100
106 31.6 22.0 40.8





#60

1,2,3-Trichloropropane

Concen: 12.337 ug/L

RT: 11.738 min Scan# 31

Delta R.T. 0.920 min

Lab File: VU052881.D

Acq: 31 Jan 2023 15:42

Instrument :

MSVOA_U

ClientSampleId :

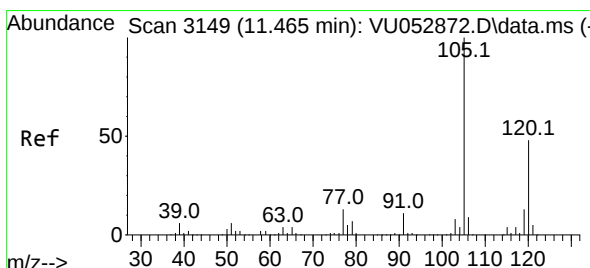
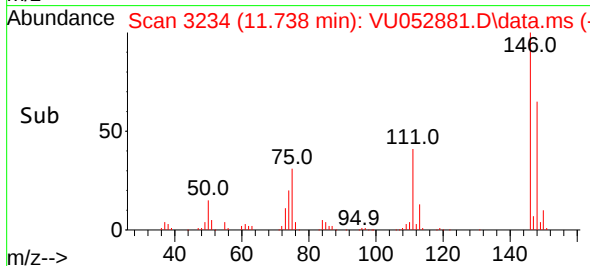
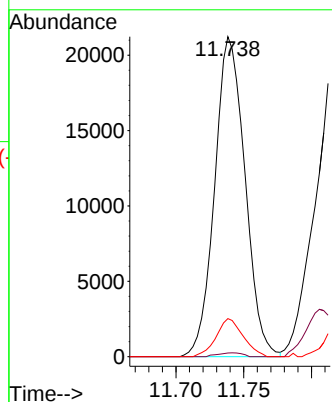
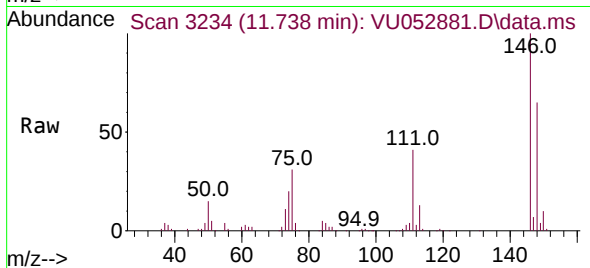
Tgt Ion: 75 Resp: 33034

Ion Ratio Lower Upper

75 100

77 1.0 25.8 38.8#

110 10.6 32.4 48.6#



#63

1,2,4-Trimethylbenzene

Concen: 1.154 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VU052881.D

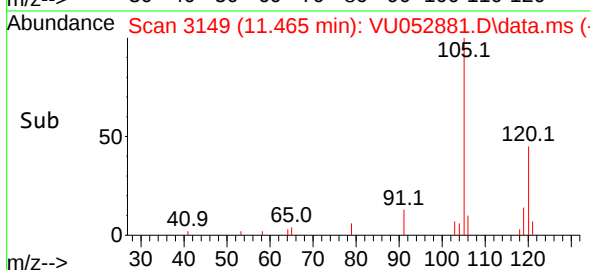
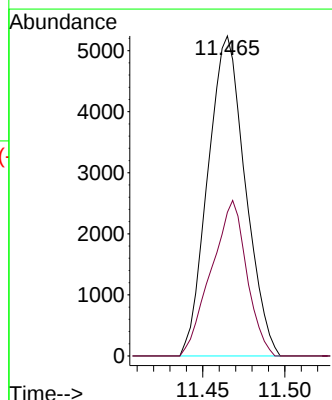
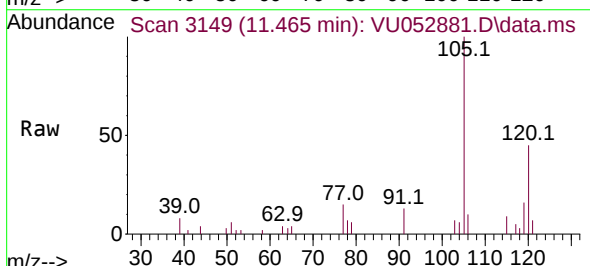
Acq: 31 Jan 2023 15:42

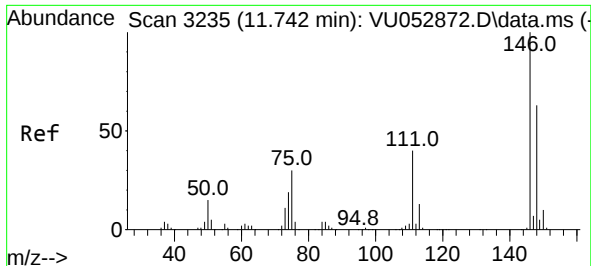
Tgt Ion: 105 Resp: 8291

Ion Ratio Lower Upper

105 100

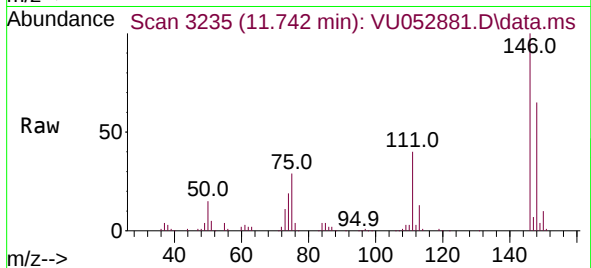
120 46.1 38.1 57.1



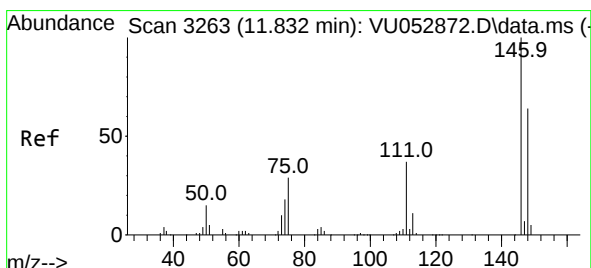
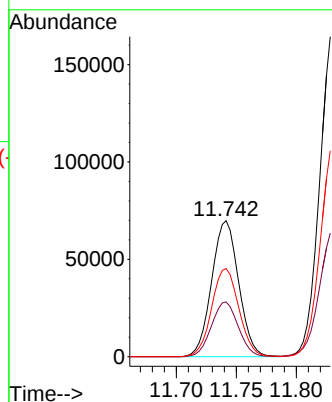
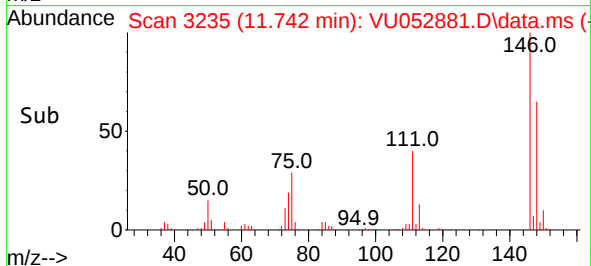


#64
1,3-Dichlorobenzene
Concen: 24.285 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

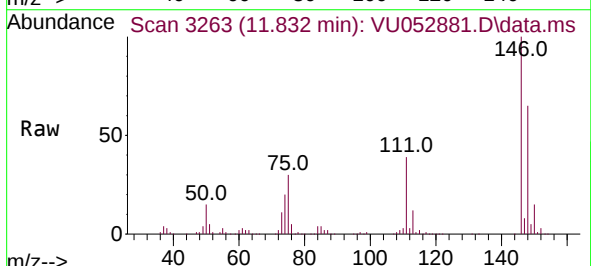
Instrument :
MSVOA_U
ClientSampleId :



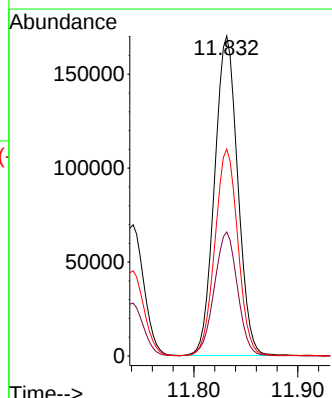
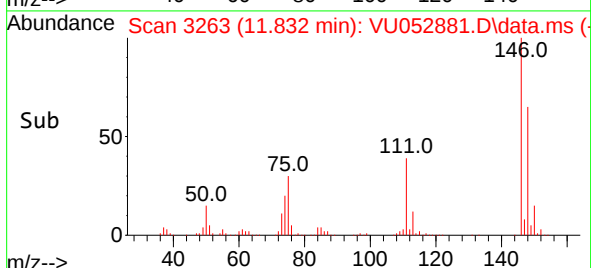
Tgt Ion:146 Resp: 109238
Ion Ratio Lower Upper
146 100
111 40.3 27.8 51.6
148 64.9 45.5 84.5

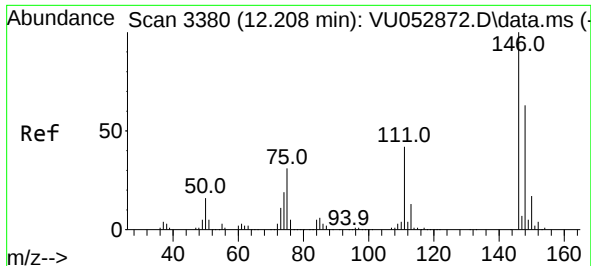


#65
1,4-Dichlorobenzene
Concen: 56.664 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. -0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42



Tgt Ion:146 Resp: 263865
Ion Ratio Lower Upper
146 100
111 38.7 26.7 49.7
148 64.7 45.6 84.6





#67

1,2-Dichlorobenzene

Concen: 190.045 ug/L

RT: 12.208 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU052881.D

Acq: 31 Jan 2023 15:42

Instrument :

MSVOA_U

ClientSampleId :

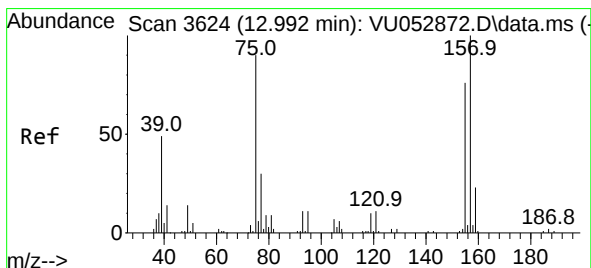
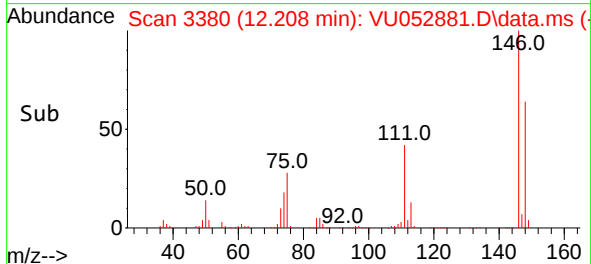
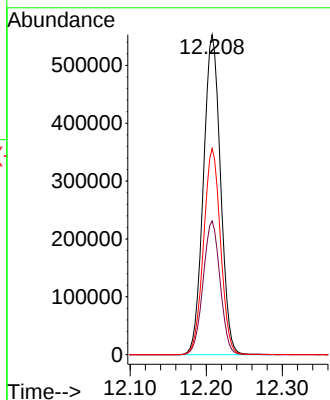
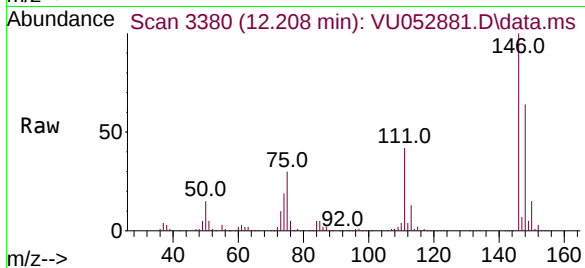
Tgt Ion:146 Resp: 864657

Ion Ratio Lower Upper

146 100

111 41.7 33.2 49.8

148 64.4 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 3.743 ug/L

RT: 13.211 min Scan# 3692

Delta R.T. 0.219 min

Lab File: VU052881.D

Acq: 31 Jan 2023 15:42

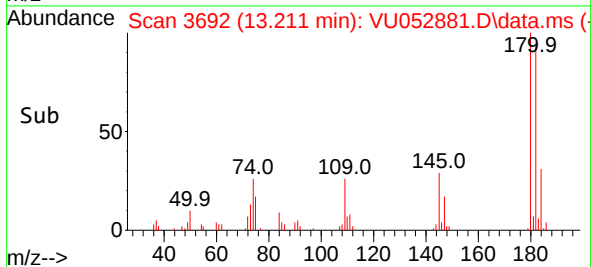
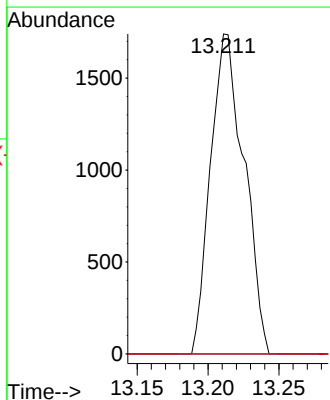
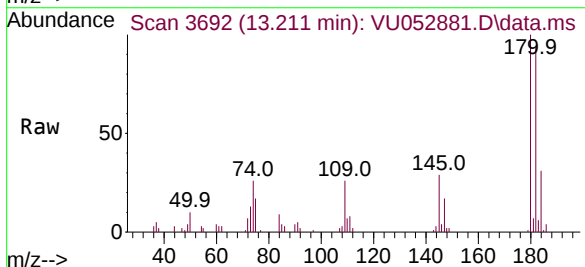
Tgt Ion: 75 Resp: 2873

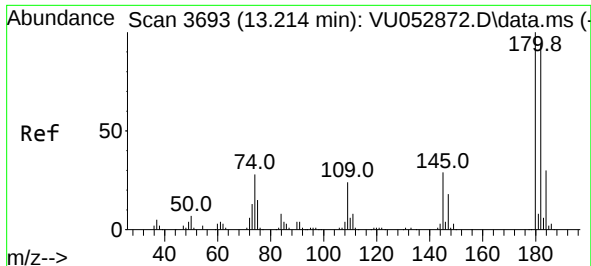
Ion Ratio Lower Upper

75 100

155 0.0 69.2 103.8#

157 0.0 91.2 136.8#





#69

1,3,5-Trichlorobenzene

Concen: 5.120 ug/L

RT: 13.214 min Scan# 3693

Delta R.T. -0.000 min

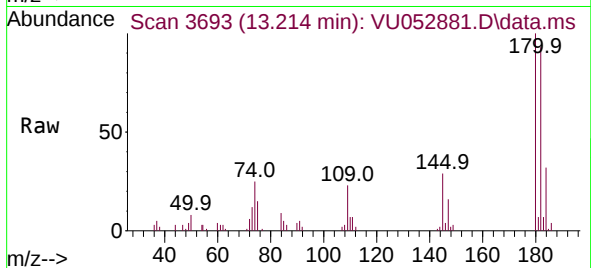
Lab File: VU052881.D

Acq: 31 Jan 2023 15:42

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 17049

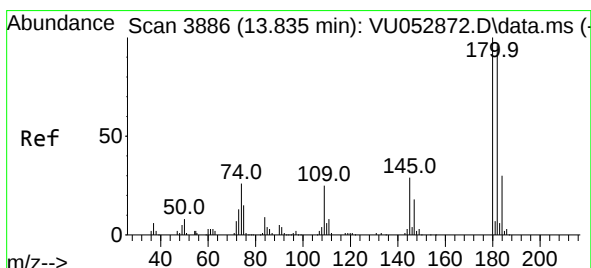
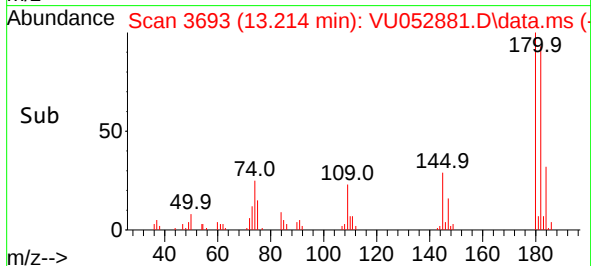
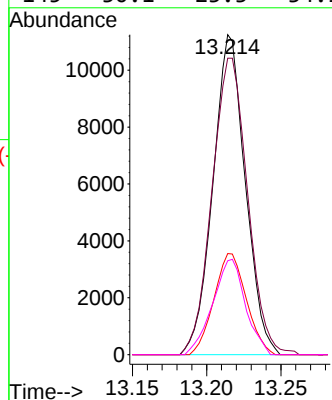
Ion Ratio Lower Upper

180 100

182 101.6 77.0 115.6

184 31.6 24.4 36.6

145 30.1 23.3 34.9



#70

1,2,4-trichlorobenzene

Concen: 4845.013 ug/L

RT: 13.848 min Scan# 3890

Delta R.T. 0.013 min

Lab File: VU052881.D

Acq: 31 Jan 2023 15:42

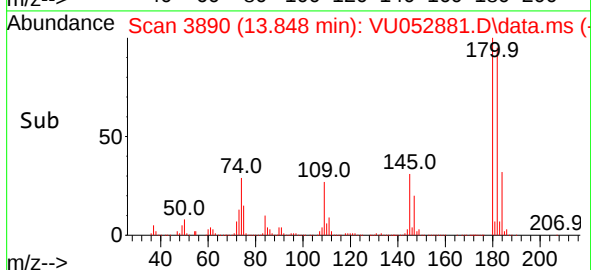
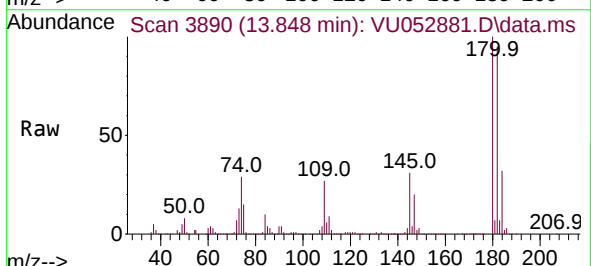
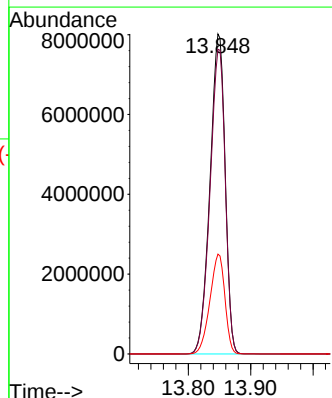
Tgt Ion:180 Resp:13526761

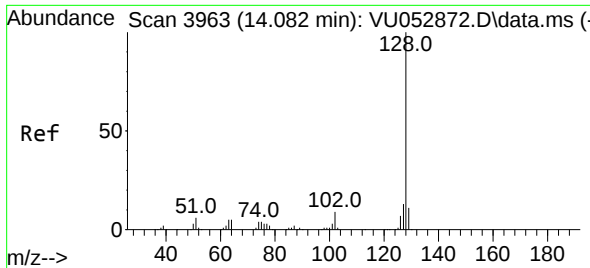
Ion Ratio Lower Upper

180 100

182 95.8 78.2 117.2

145 30.8 23.4 35.2

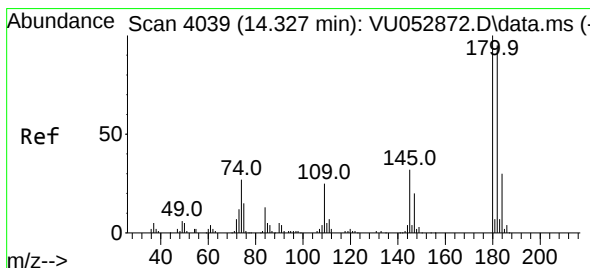
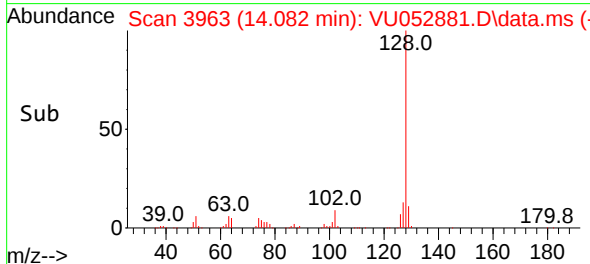
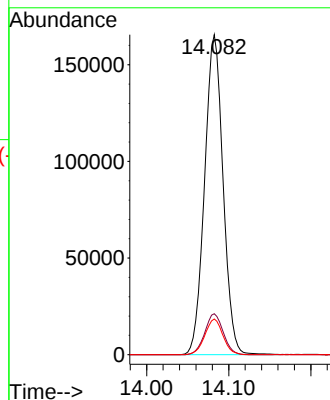
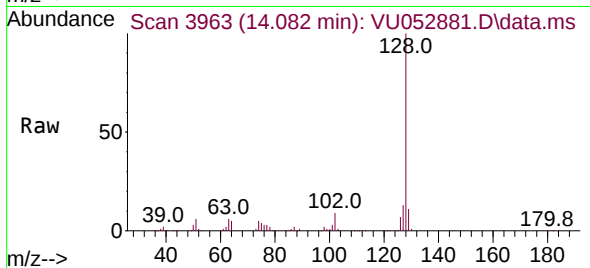




#71
Naphthalene
Concen: 32.277 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. -0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:128 Resp: 258963
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 10.9 8.8 13.2



#72
1,2,3-Trichlorobenzene
Concen: 1006.462 ug/L
RT: 14.327 min Scan# 4039
Delta R.T. -0.000 min
Lab File: VU052881.D
Acq: 31 Jan 2023 15:42

Tgt Ion:180 Resp: 2969600
Ion Ratio Lower Upper
180 100
182 96.0 77.5 116.3
145 31.8 24.2 36.4

