

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053531.D
 Acq On : 03 Apr 2023 19:36
 Operator : JC/MD
 Sample : 02158-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-4(20230329)

Quant Time: Apr 04 05:19:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM033123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 01 04:51:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	273224	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	254455	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	131869	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	101115	47.528	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	95.060%		
7) Chloroethane-d5	1.909	69	80356	48.987	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.980%		
11) 1,1-Dichloroethene-d2	2.562	63	116271	35.306	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	70.620%		
21) 2-Butanone-d5	4.613	46	112711	117.013	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	117.010%		
24) Chloroform-d	5.057	84	162790	46.267	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	92.540%		
26) 1,2-Dichloroethane-d4	5.697	65	103981	50.013	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	100.020%		
32) Benzene-d6	5.723	84	334525	48.705	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.400%		
36) 1,2-Dichloropropane-d6	6.684	67	103304	49.207	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	98.420%		
41) Toluene-d8	7.893	98	313347	45.901	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	91.800%		
43) trans-1,3-Dichloroprop...	8.176	79	51647	47.659	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	95.320%		
47) 2-Hexanone-d5	8.626	63	88327	123.278	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	123.280%		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	150272	50.786	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	101.580%		
66) 1,2-Dichlorobenzene-d4	12.189	152	128434	46.660	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	93.320%		
Target Compounds						Qvalue
12) 1,1-Dichloroethene	2.562	96	1102	0.657	ug/L #	1
13) Acetone	2.626	43	4495	5.193	ug/L	68
20) cis-1,2-Dichloroethene	4.661	96	29111	14.958	ug/L	88
34) Trichloroethene	6.539	95	7290	3.636	ug/L	97
37) 1,2-Dichloropropane	6.687	63	10771	6.398	ug/L #	86
42) Toluene	7.967	91	65728	8.748	ug/L	100
44) trans-1,3-Dichloropropene	8.176	75	2234	0.859	ug/L	90
46) Tetrachloroethene	8.549	164	28342	17.033	ug/L	97
49) Dibromochloromethane	8.549	129	27497	14.308	ug/L #	11
51) Chlorobenzene	9.443	112	303138	58.560	ug/L	97
53) m,p-Xylene	9.690	106	6386	1.952	ug/L	97
60) 1,2,3-Trichloropropane	11.742	75	13750	7.191	ug/L #	48
64) 1,3-Dichlorobenzene	11.742	146	47708	11.711	ug/L	98
65) 1,4-Dichlorobenzene	11.832	146	103705	24.977	ug/L	95
67) 1,2-Dichlorobenzene	12.208	146	15155	3.733	ug/L	96
69) 1,3,5-Trichlorobenzene	13.835	180	289422	95.937	ug/L	98
70) 1,2,4-trichlorobenzene	13.835	180	289422	103.477	ug/L	99
72) 1,2,3-Trichlorobenzene	14.327	180	49813	17.831	ug/L	97

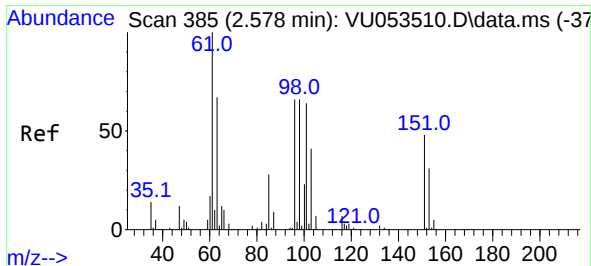
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
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Quant Title : VOC Analysis
QLast Update : Sat Apr 01 04:51:17 2023
Response via : Initial Calibration

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



#12

1,1-Dichloroethene

Concen: 0.657 ug/L

RT: 2.562 min Scan# 3

Delta R.T. -0.016 min

Lab File: VU053531.D

Acq: 03 Apr 2023 19:36

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230329)

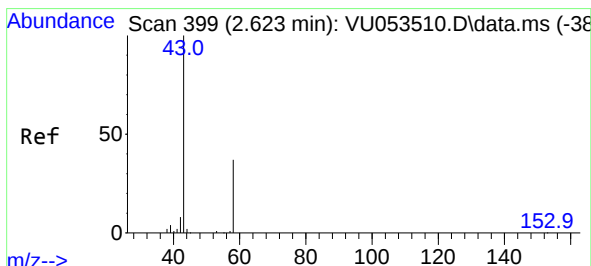
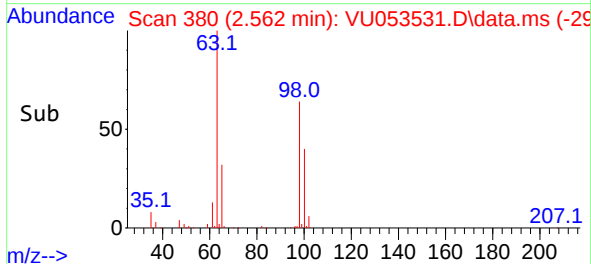
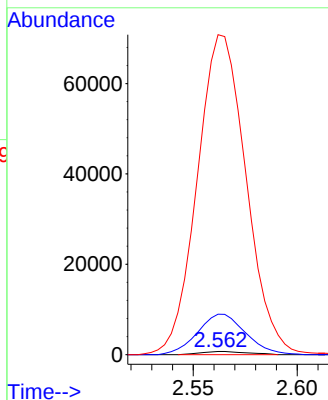
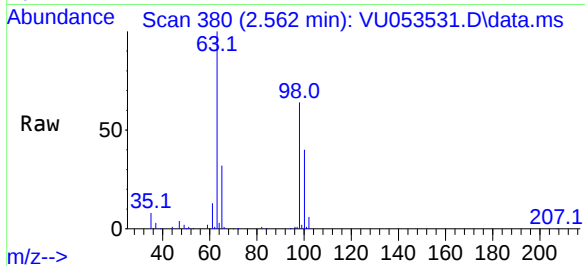
Tgt Ion: 96 Resp: 1102

Ion Ratio Lower Upper

96 100

61 1266.2 107.9 200.5#

63 10016.4 79.1 146.9#



#13

Acetone

Concen: 5.193 ug/L

RT: 2.626 min Scan# 400

Delta R.T. 0.006 min

Lab File: VU053531.D

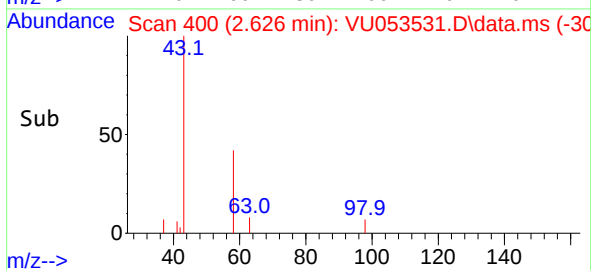
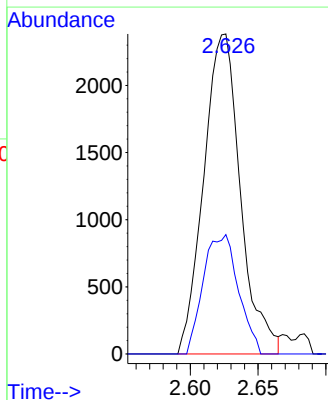
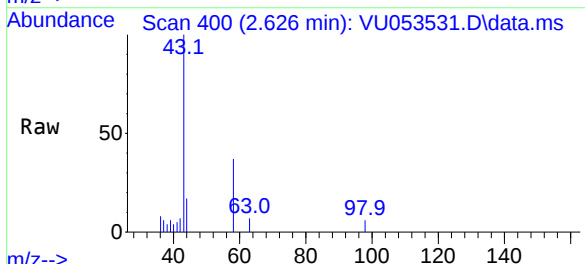
Acq: 03 Apr 2023 19:36

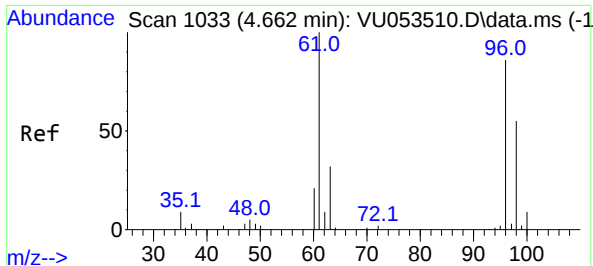
Tgt Ion: 43 Resp: 4495

Ion Ratio Lower Upper

43 100

58 16.4 0.0 70.2



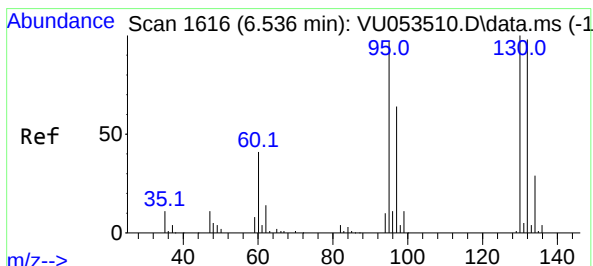
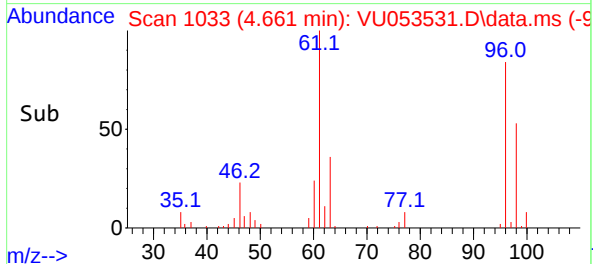
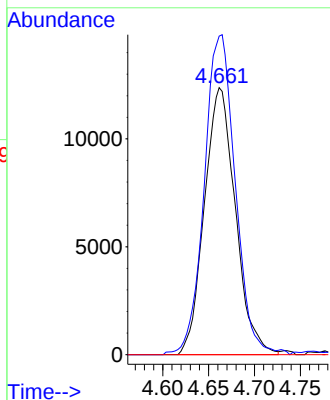
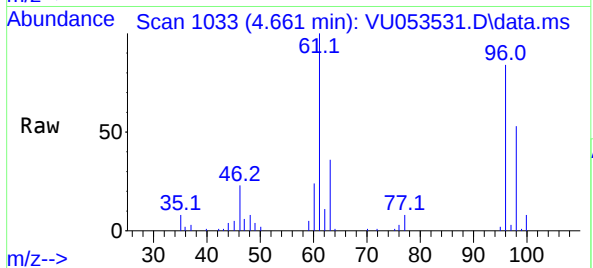


cis-1,2-Dichloroethene
Concen: 14.958 ug/L
RT: 4.661 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230329)

Tgt Ion: 96 Resp: 29111

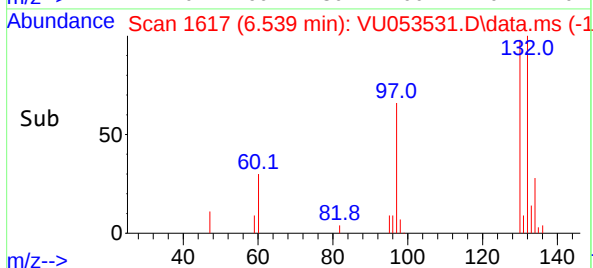
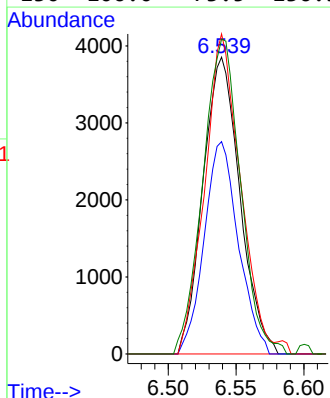
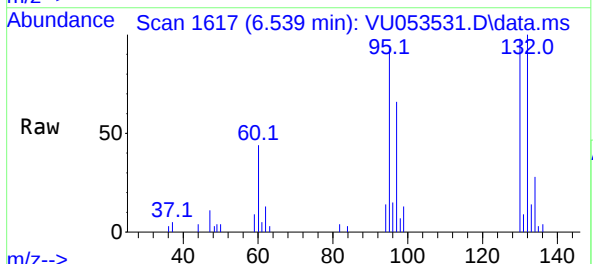
Ion	Ratio	Lower	Upper
96	100		
61	119.3	74.7	138.7
68	0.0	0.0	0.0

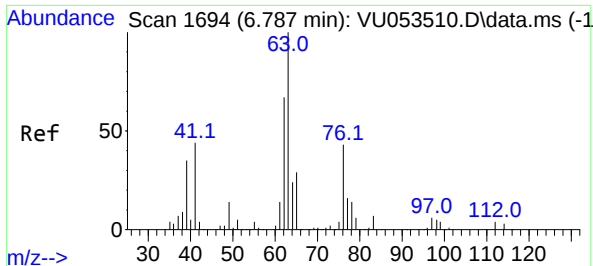


Trichloroethene
Concen: 3.636 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. 0.003 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Tgt Ion: 95 Resp: 7290

Ion	Ratio	Lower	Upper
95	100		
97	71.5	45.1	83.7
132	107.8	74.1	137.5
130	106.0	73.5	136.5

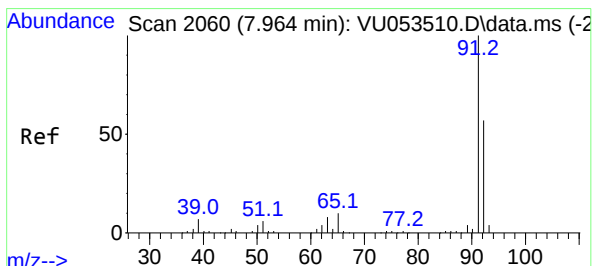
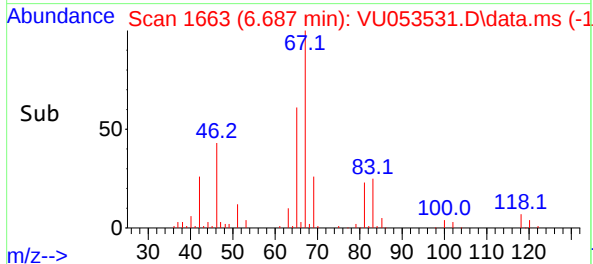
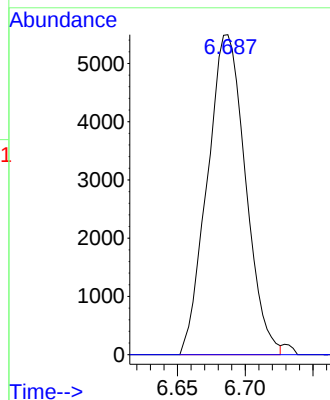
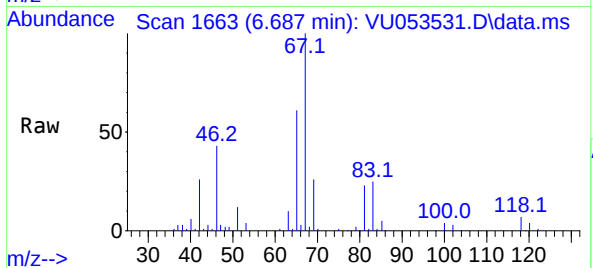




#37
1,2-Dichloropropane
Concen: 6.398 ug/L
RT: 6.687 min Scan# 1
Delta R.T. -0.096 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

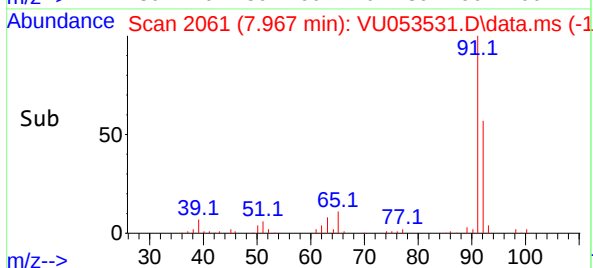
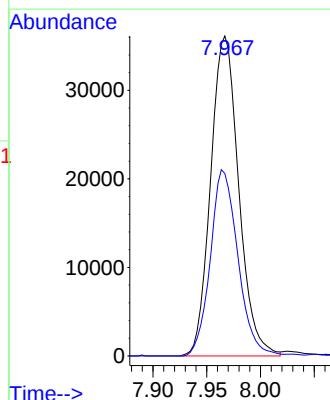
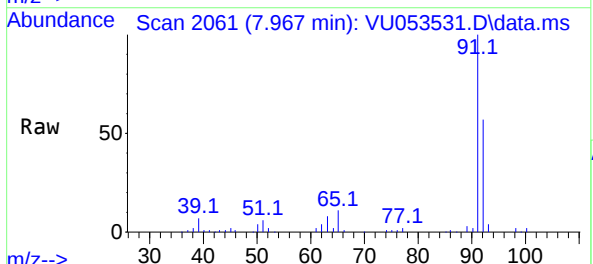
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230329)

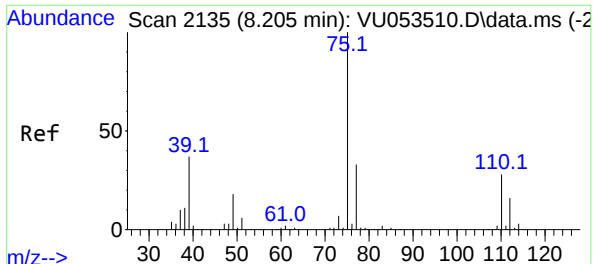
Tgt Ion: 63 Resp: 10771
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#



#42
Toluene
Concen: 8.748 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Tgt Ion: 91 Resp: 65728
Ion Ratio Lower Upper
91 100
92 57.0 39.8 73.8





#44

trans-1,3-Dichloropropene

Concen: 0.859 ug/L

RT: 8.176 min Scan# 2135

Delta R.T. -0.029 min

Lab File: VU053531.D

Acq: 03 Apr 2023 19:36

Instrument :

MSVOA_U

ClientSampleId :

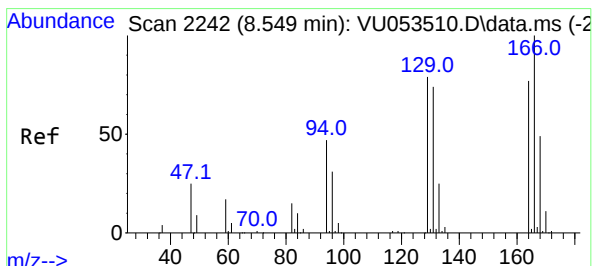
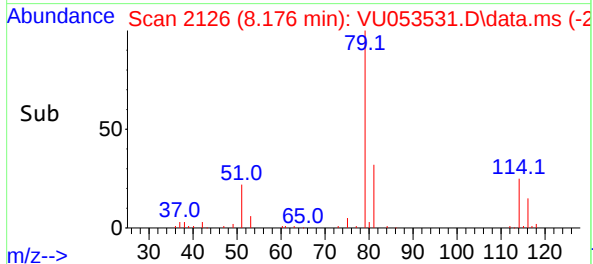
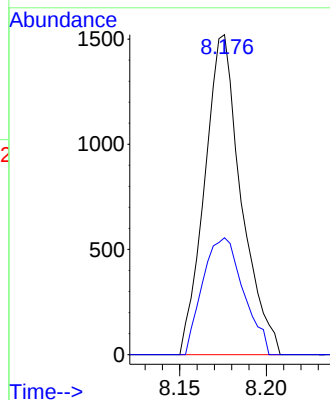
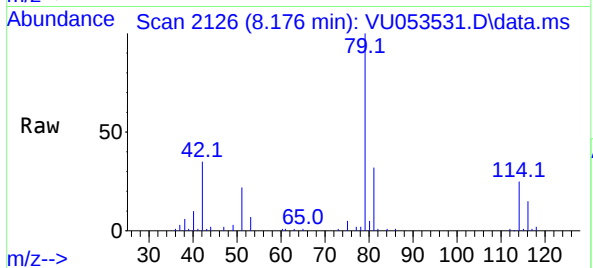
PMW-4(20230329)

Tgt Ion: 75 Resp: 2234

Ion Ratio Lower Upper

75 100

77 36.6 21.8 40.4



#46

Tetrachloroethene

Concen: 17.033 ug/L

RT: 8.549 min Scan# 2242

Delta R.T. 0.000 min

Lab File: VU053531.D

Acq: 03 Apr 2023 19:36

Tgt Ion:164 Resp: 28342

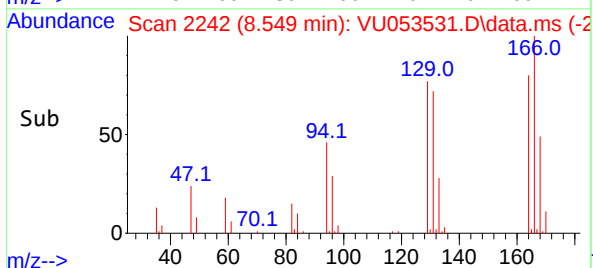
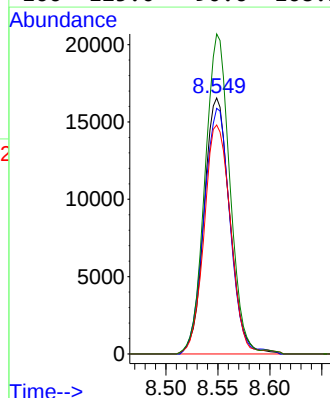
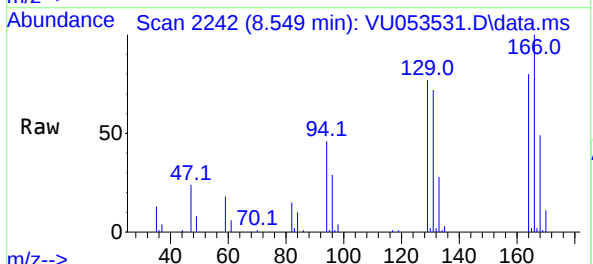
Ion Ratio Lower Upper

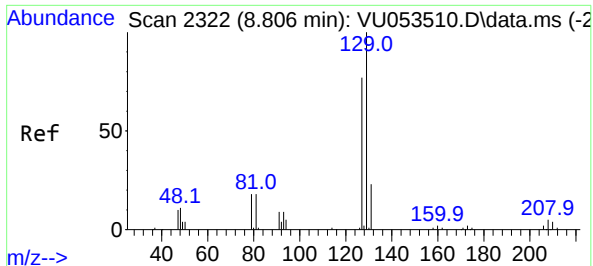
164 100

129 95.9 64.0 119.0

131 89.4 61.9 115.1

166 125.0 90.6 168.2





#49

Dibromochloromethane

Concen: 14.308 ug/L

RT: 8.549 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU053531.D

Acq: 03 Apr 2023 19:36

Instrument :

MSVOA_U

ClientSampleId :

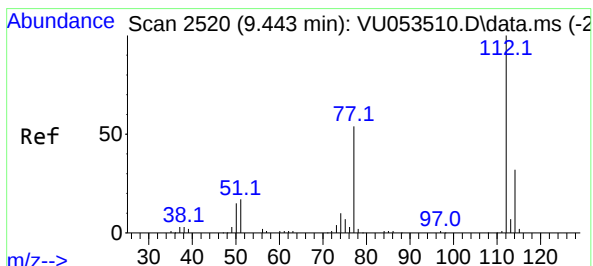
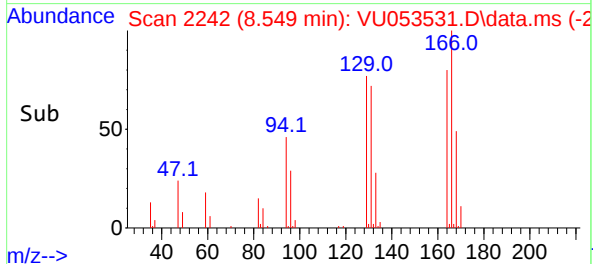
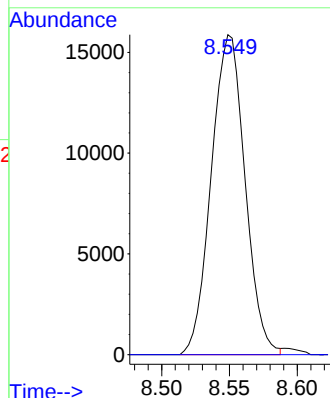
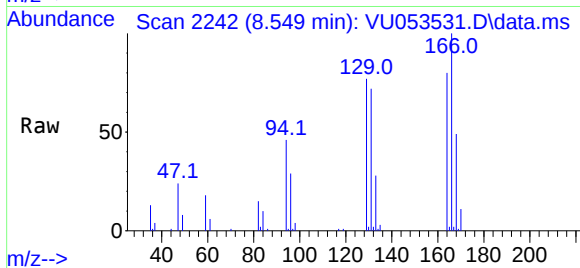
PMW-4(20230329)

Tgt Ion:129 Resp: 27497

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.3#



#51

Chlorobenzene

Concen: 58.560 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. 0.000 min

Lab File: VU053531.D

Acq: 03 Apr 2023 19:36

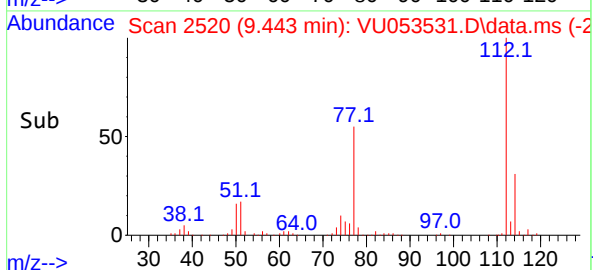
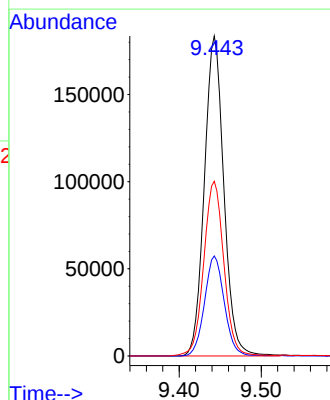
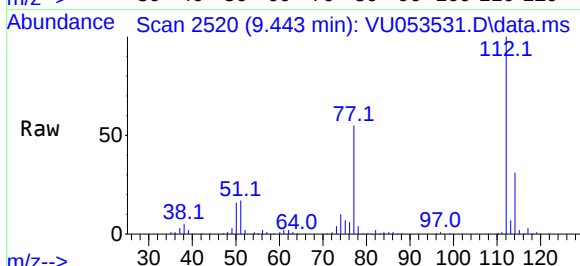
Tgt Ion:112 Resp: 303138

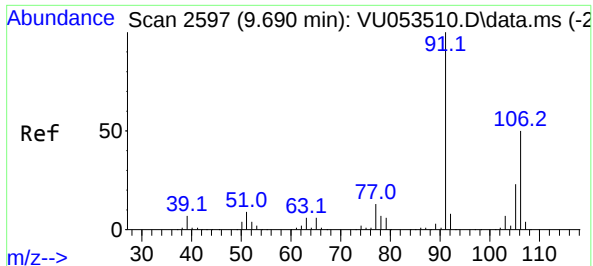
Ion Ratio Lower Upper

112 100

114 31.3 22.2 41.2

77 54.6 41.3 61.9

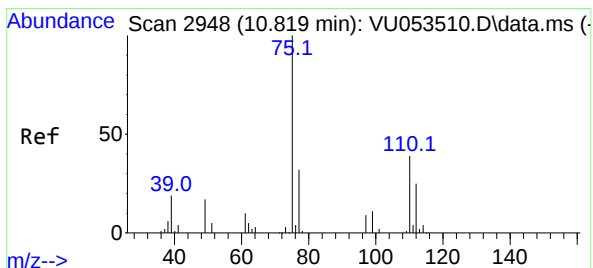
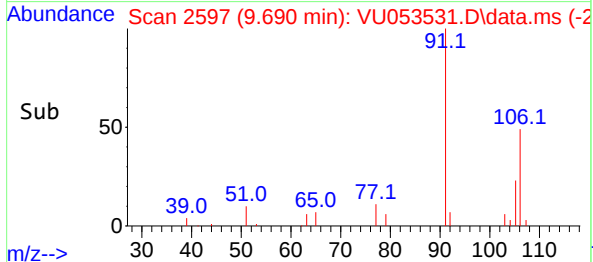
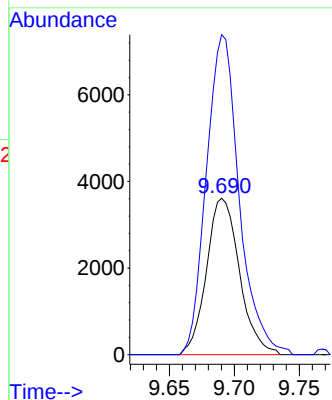
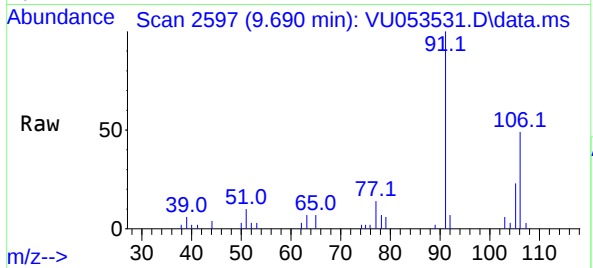




#53
m,p-Xylene
Concen: 1.952 ug/L
RT: 9.690 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

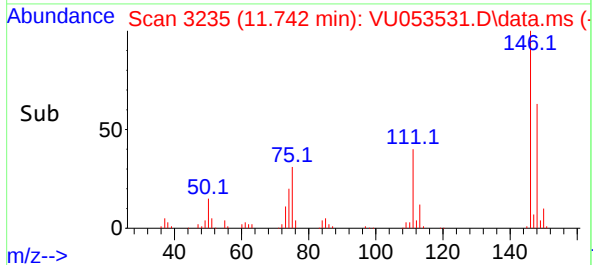
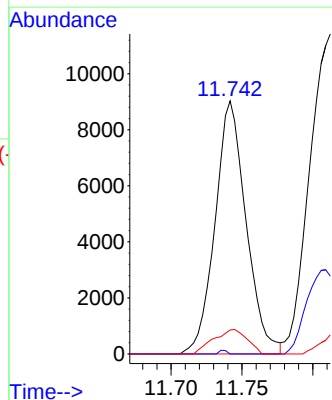
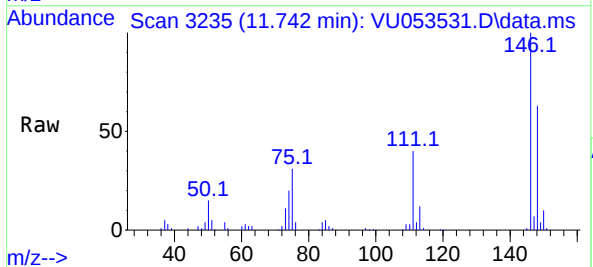
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230329)

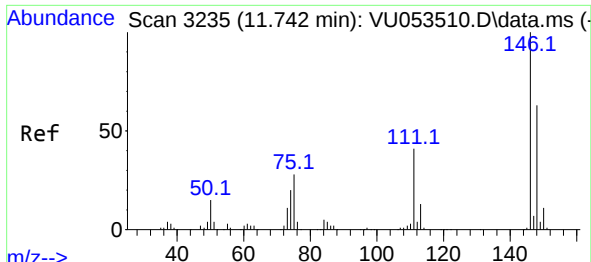
Tgt Ion:106 Resp: 6386
Ion Ratio Lower Upper
106 100
91 204.4 140.0 260.0



#60
1,2,3-Trichloropropane
Concen: 7.191 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.926 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Tgt Ion: 75 Resp: 13750
Ion Ratio Lower Upper
75 100
77 0.3 26.0 39.0#
110 10.4 32.6 48.8#



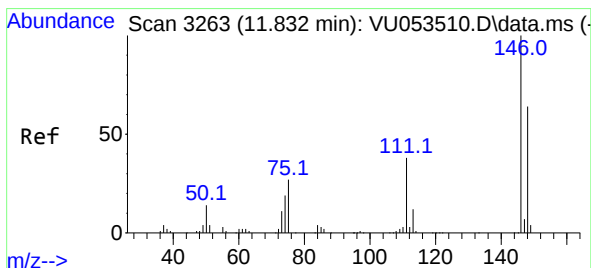
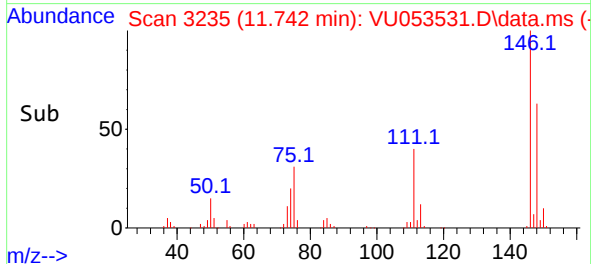
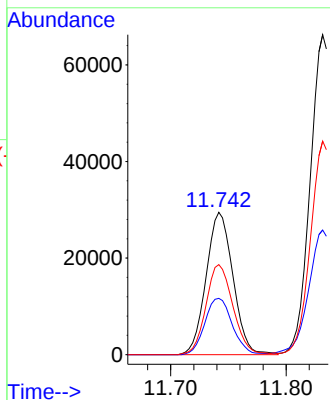
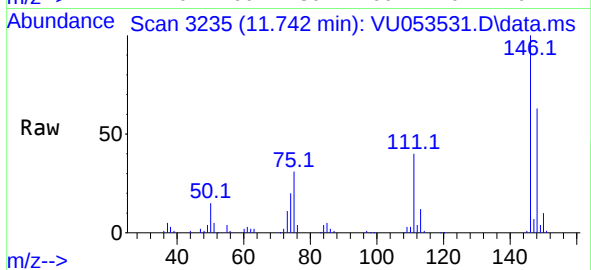


#64
1,3-Dichlorobenzene
Concen: 11.711 ug/L
RT: 11.742 min Scan# 311
Delta R.T. 0.000 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230329)

Tgt Ion:146 Resp: 47708

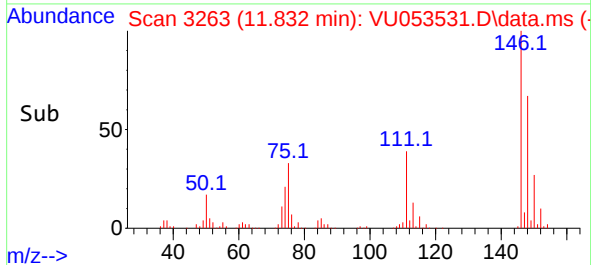
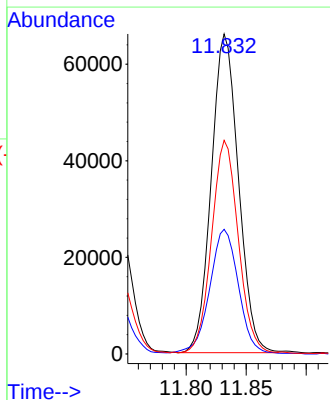
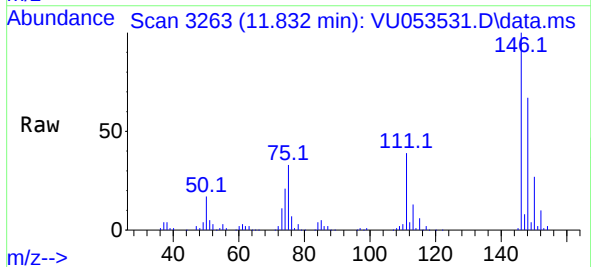
Ion	Ratio	Lower	Upper
146	100		
111	39.5	25.7	47.7
148	63.3	44.2	82.2

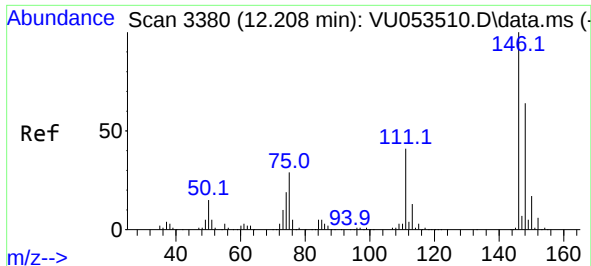


#65
1,4-Dichlorobenzene
Concen: 24.977 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Tgt Ion:146 Resp: 103705

Ion	Ratio	Lower	Upper
146	100		
111	38.9	25.1	46.5
148	66.7	44.3	82.3





#67

1,2-Dichlorobenzene

Concen: 3.733 ug/L

RT: 12.208 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU053531.D

Acq: 03 Apr 2023 19:36

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230329)

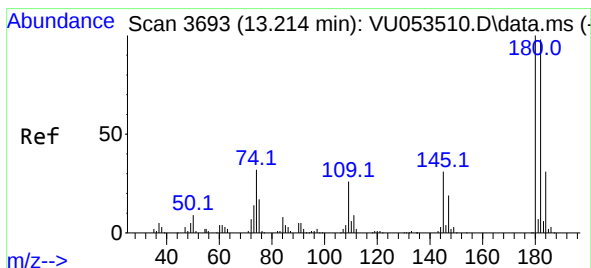
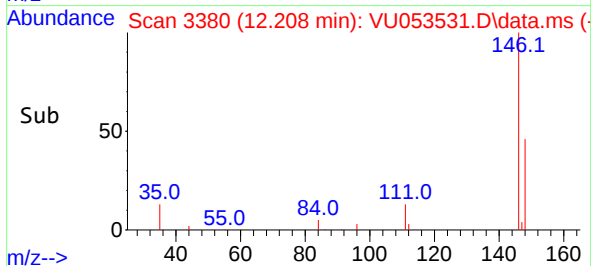
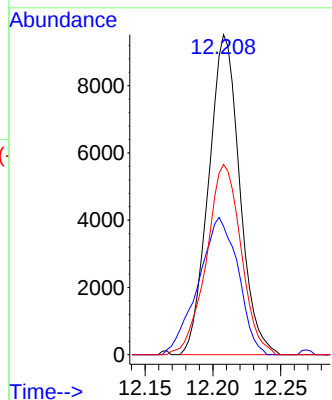
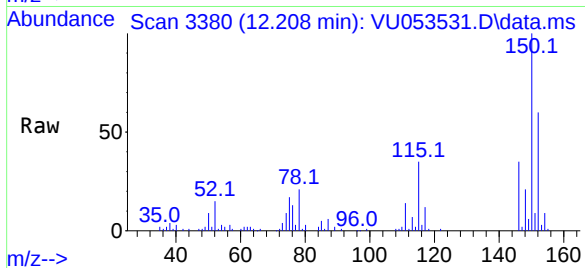
Tgt Ion:146 Resp: 15155

Ion Ratio Lower Upper

146 100

111 40.1 31.5 47.3

148 59.5 51.6 77.4



#69

1,3,5-Trichlorobenzene

Concen: 95.937 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. 0.621 min

Lab File: VU053531.D

Acq: 03 Apr 2023 19:36

Tgt Ion:180 Resp: 289422

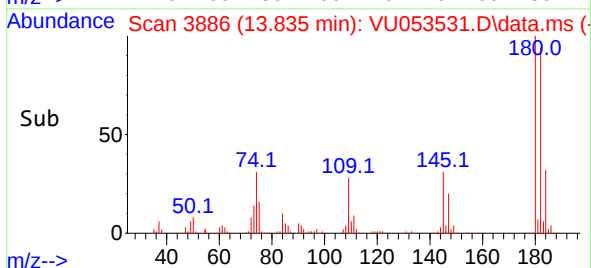
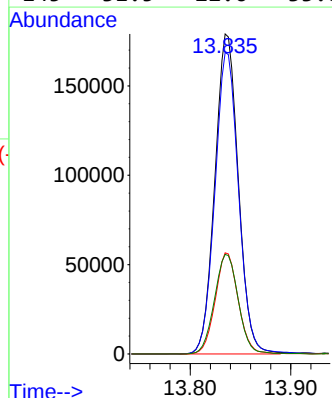
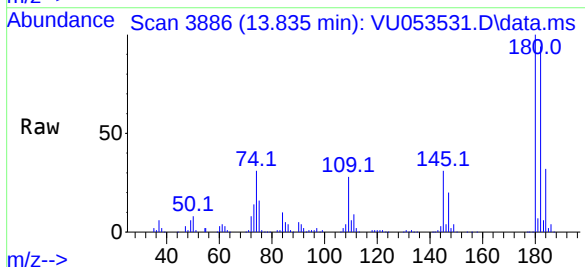
Ion Ratio Lower Upper

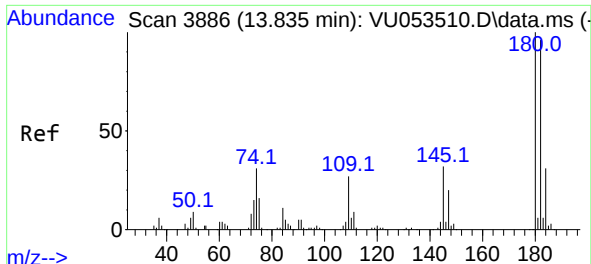
180 100

182 95.4 75.6 113.4

184 31.0 24.2 36.2

145 31.5 22.6 33.8

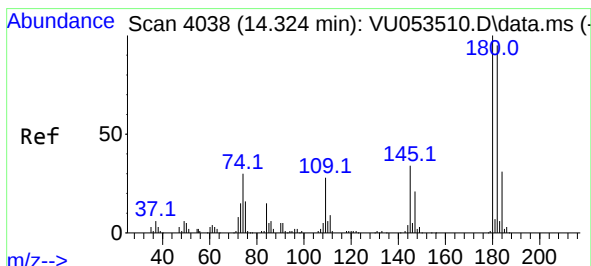
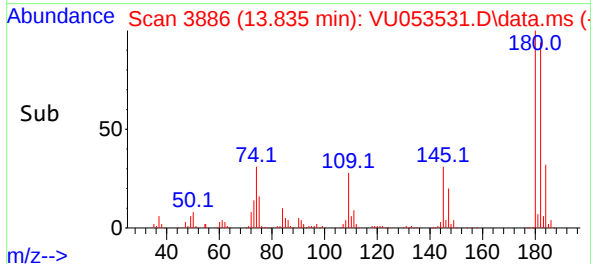
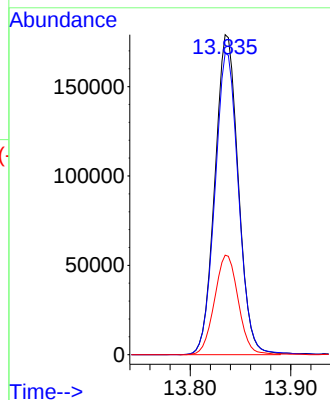
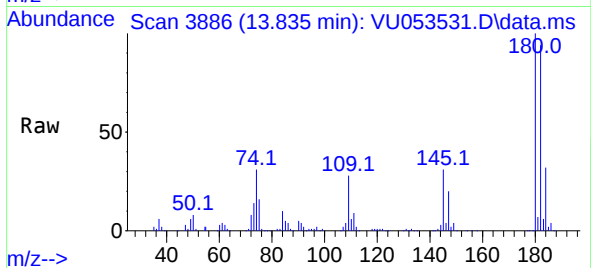




#70
1,2,4-trichlorobenzene
Concen: 103.477 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. 0.000 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230329)

Tgt Ion:180 Resp: 289422
Ion Ratio Lower Upper
180 100
182 95.4 75.8 113.8
145 31.5 23.4 35.2



#72
1,2,3-Trichlorobenzene
Concen: 17.831 ug/L
RT: 14.327 min Scan# 4039
Delta R.T. 0.003 min
Lab File: VU053531.D
Acq: 03 Apr 2023 19:36

Tgt Ion:180 Resp: 49813
Ion Ratio Lower Upper
180 100
182 98.3 77.0 115.6
145 33.8 25.4 38.0

