

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053543.D
 Acq On : 04 Apr 2023 01:08
 Operator : JC/MD
 Sample : 02158-15
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-8D(20230330)

Quant Time: Apr 04 06:58:22 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)

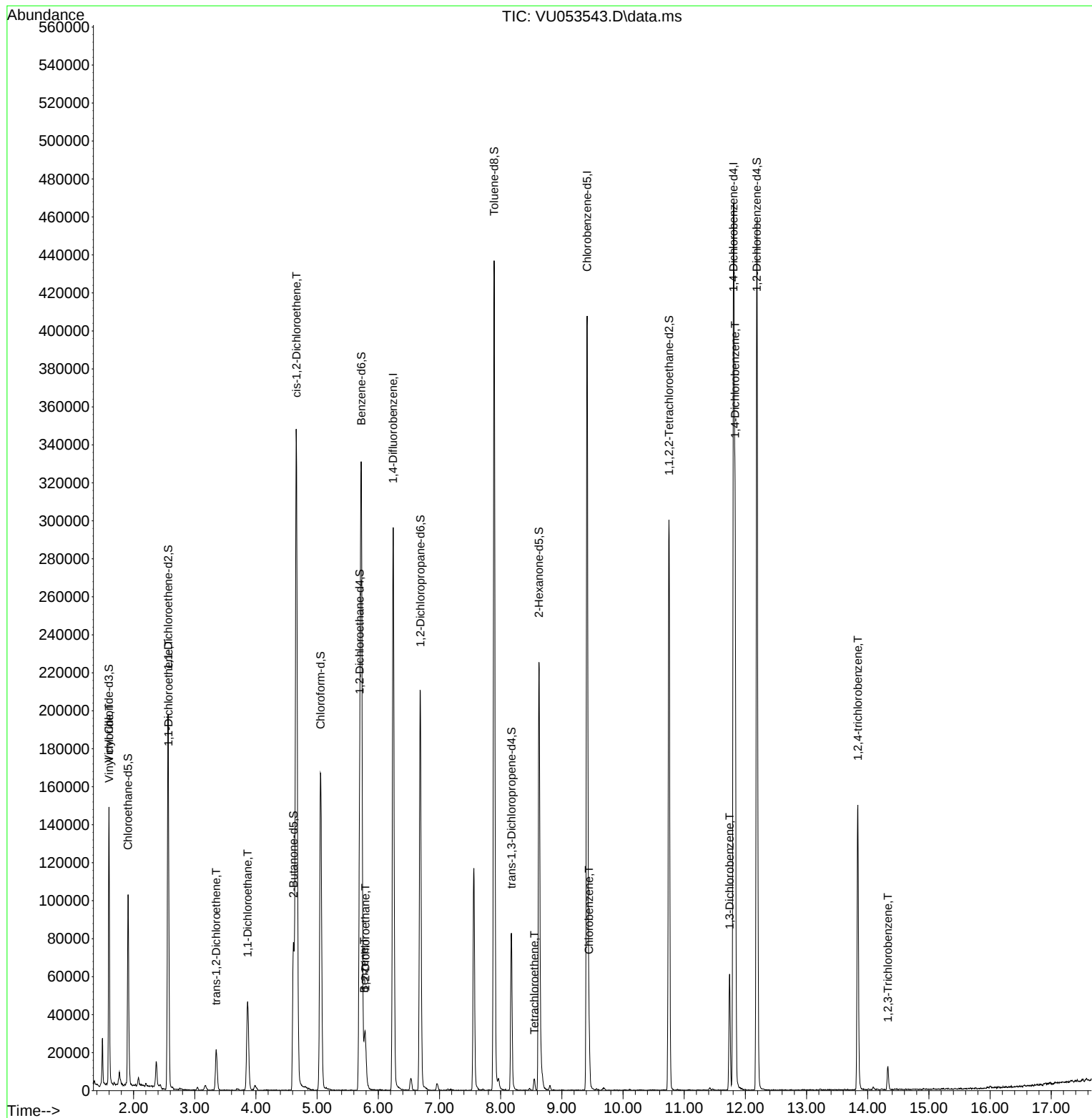
Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	255227	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	241287	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	121905	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	90347	45.461	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 90.920%			
7) Chloroethane-d5	1.909	69	77118	50.328	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.660%			
11) 1,1-Dichloroethene-d2	2.565	63	111614	36.281	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 72.560%			
21) 2-Butanone-d5	4.613	46	106354	118.199	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery = 118.200%			
24) Chloroform-d	5.057	84	158742	48.298	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 96.600%			
26) 1,2-Dichloroethane-d4	5.697	65	101920	52.478	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 104.960%			
32) Benzene-d6	5.723	84	325601	49.993	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 99.980%			
36) 1,2-Dichloropropane-d6	6.687	67	103482	51.982	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 103.960%			
41) Toluene-d8	7.893	98	305687	47.222	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.440%			
43) trans-1,3-Dichloroprop...	8.176	79	48731	47.422	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 94.840%			
47) 2-Hexanone-d5	8.626	63	82297	121.130	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 121.130%			
56) 1,1,2,2-Tetrachloroeth...	10.751	84	148181	52.812	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 105.620%			
66) 1,2-Dichlorobenzene-d4	12.189	152	123315	48.462	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.920%			
Target Compounds						Qvalue
5) Vinyl chloride	1.601	62	13361	6.773	ug/L	91
12) 1,1-Dichloroethene	2.572	96	2672	1.706	ug/L #	1
17) trans-1,2-Dichloroethene	3.350	96	7691	4.887	ug/L	88
19) 1,1-Dichloroethane	3.864	63	53020	20.336	ug/L	96
20) cis-1,2-Dichloroethene	4.662	96	189917	104.467	ug/L	92
27) 1,2-Dichloroethane	5.790	62	17994	8.217	ug/L	95
33) Benzene	5.771	78	16321	2.596	ug/L	100
46) Tetrachloroethene	8.552	164	1539	0.975	ug/L	88
51) Chlorobenzene	9.443	112	17454	3.556	ug/L	96
64) 1,3-Dichlorobenzene	11.742	146	25734	6.833	ug/L	98
65) 1,4-Dichlorobenzene	11.832	146	116788	30.427	ug/L	98
70) 1,2,4-trichlorobenzene	13.838	180	47656	18.431	ug/L	97
72) 1,2,3-Trichlorobenzene	14.330	180	4563	1.767	ug/L #	90

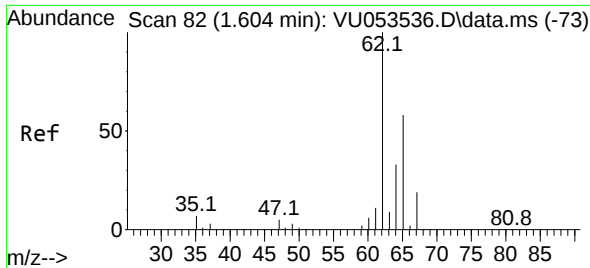
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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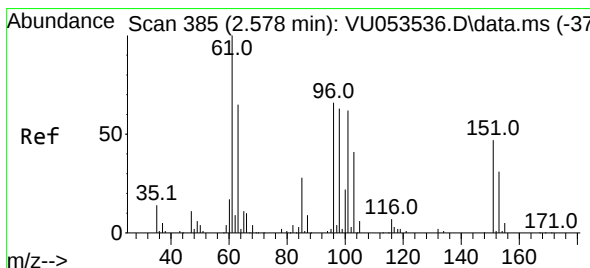
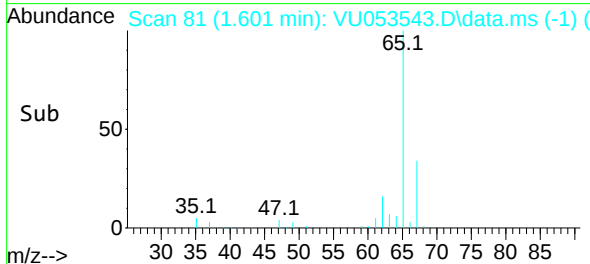
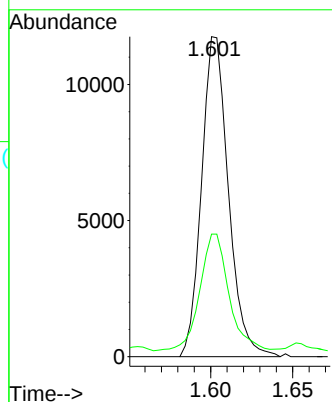
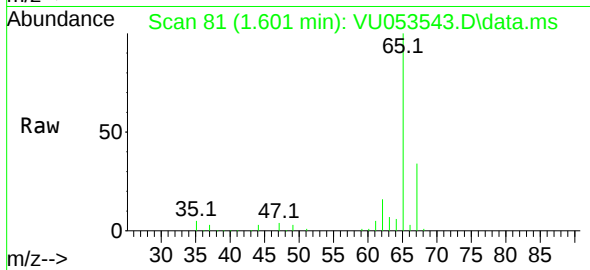




#5
 Vinyl chloride
 Concen: 6.773 ug/L
 RT: 1.601 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU053543.D
 Acq: 04 Apr 2023 01:08

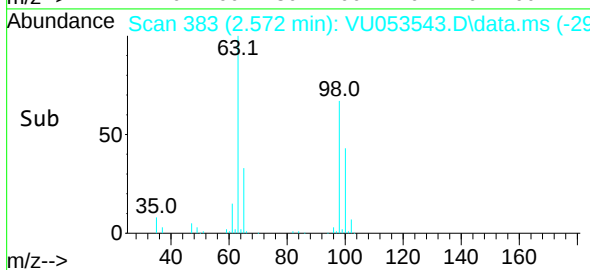
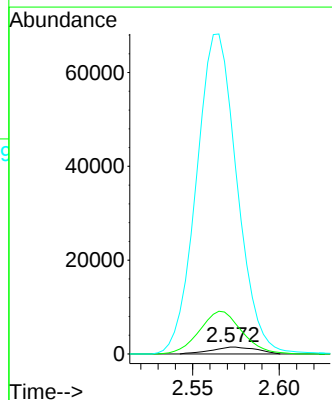
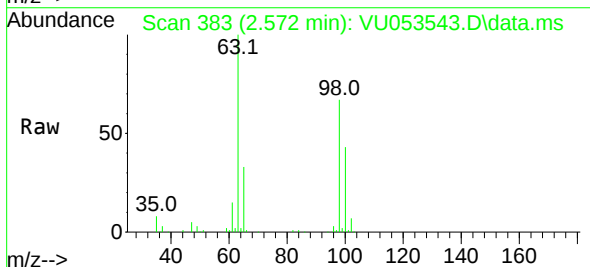
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-8D(20230330)

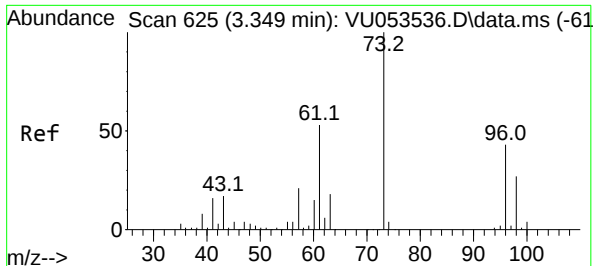
Tgt Ion: 62 Resp: 13361
 Ion Ratio Lower Upper
 62 100
 64 38.3 23.2 43.0



#12
 1,1-Dichloroethene
 Concen: 1.706 ug/L
 RT: 2.572 min Scan# 383
 Delta R.T. -0.006 min
 Lab File: VU053543.D
 Acq: 04 Apr 2023 01:08

Tgt Ion: 96 Resp: 2672
 Ion Ratio Lower Upper
 96 100
 61 535.6 107.9 200.5#
 63 3518.2 79.1 146.9#





#17

trans-1,2-Dichloroethene

Concen: 4.887 ug/L

RT: 3.350 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU053543.D

Acq: 04 Apr 2023 01:08

Instrument :

MSVOA_U

ClientSampleId :

PMW-8D(20230330)

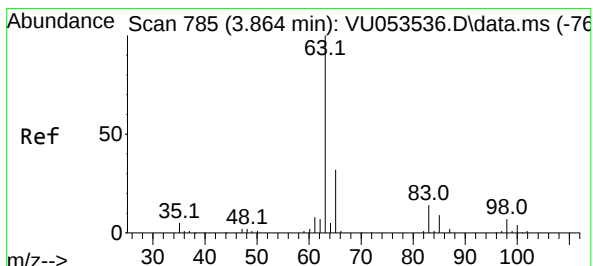
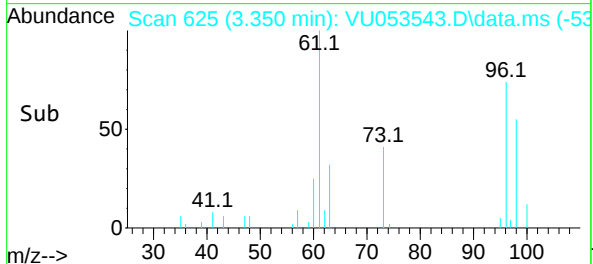
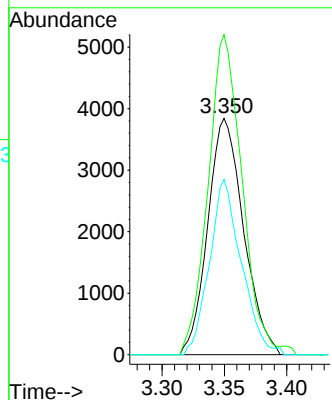
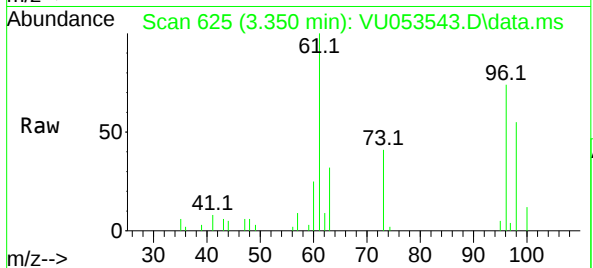
Tgt Ion: 96 Resp: 7691

Ion Ratio Lower Upper

96 100

61 135.4 84.4 156.8

98 74.1 46.0 85.4



#19

1,1-Dichloroethane

Concen: 20.336 ug/L

RT: 3.864 min Scan# 785

Delta R.T. 0.000 min

Lab File: VU053543.D

Acq: 04 Apr 2023 01:08

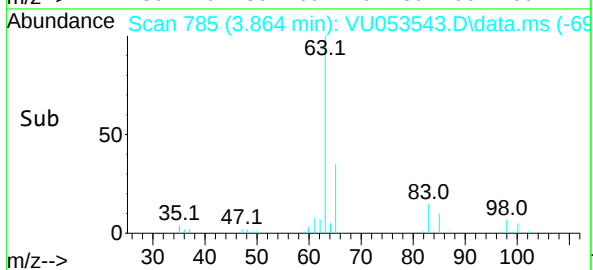
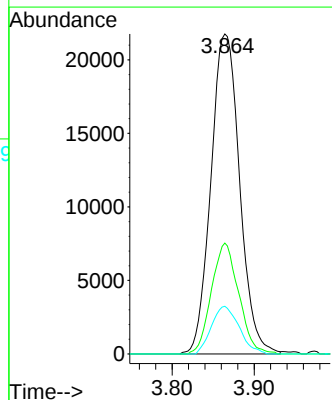
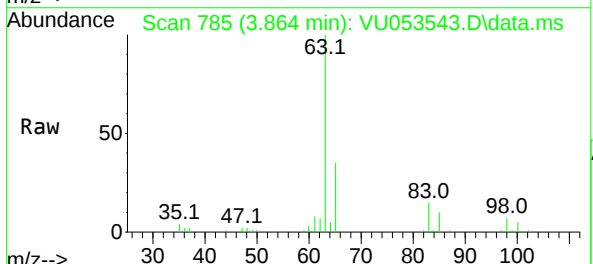
Tgt Ion: 63 Resp: 53020

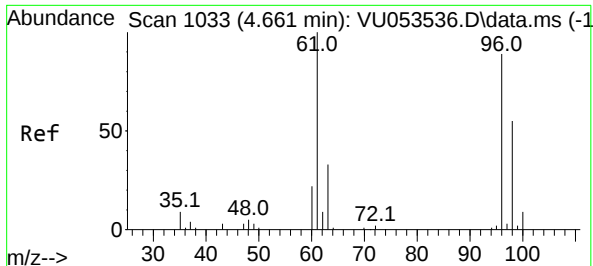
Ion Ratio Lower Upper

63 100

65 34.7 22.0 41.0

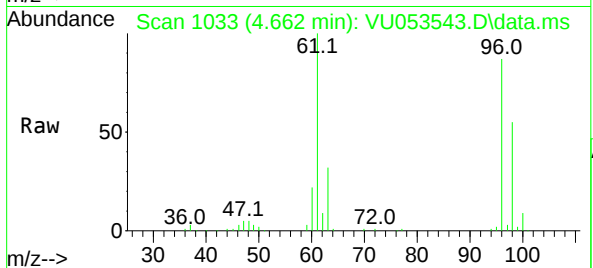
83 14.9 10.8 20.0



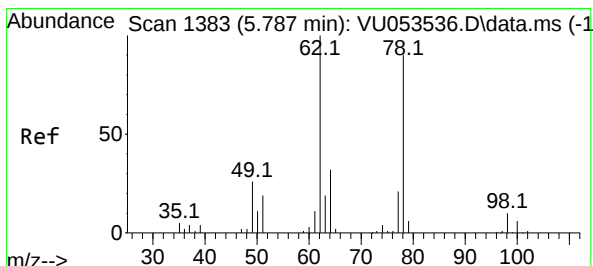
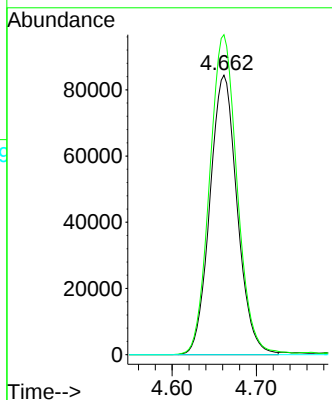
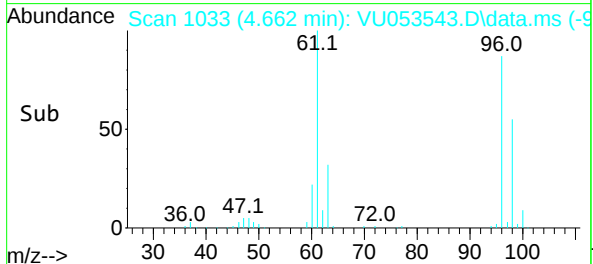


#20
cis-1,2-Dichloroethene
Concen: 104.467 ug/L
RT: 4.662 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

Instrument :
MSVOA_U
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PMW-8D(20230330)

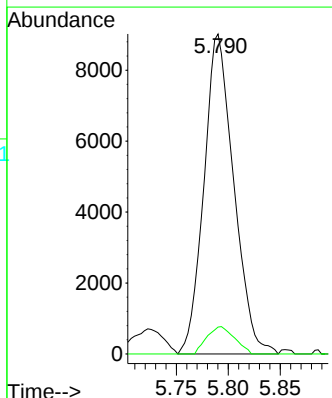
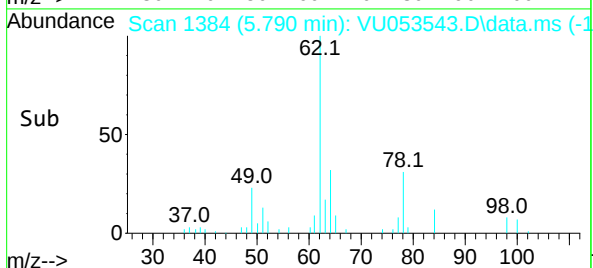
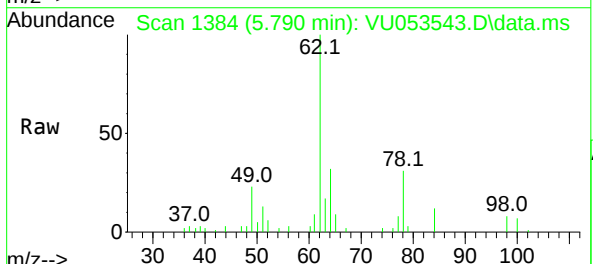


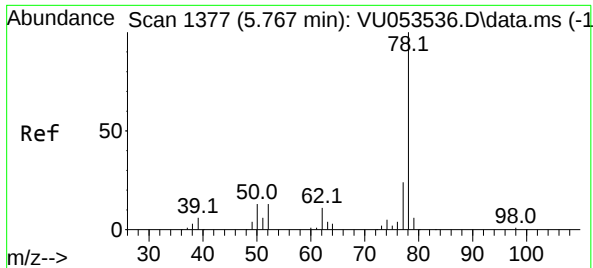
Tgt Ion: 96 Resp: 189917
Ion Ratio Lower Upper
96 100
61 114.5 74.7 138.7
68 0.0 0.0 0.0



#27
1,2-Dichloroethane
Concen: 8.217 ug/L
RT: 5.790 min Scan# 1384
Delta R.T. 0.003 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

Tgt Ion: 62 Resp: 17994
Ion Ratio Lower Upper
62 100
98 8.4 8.3 12.5

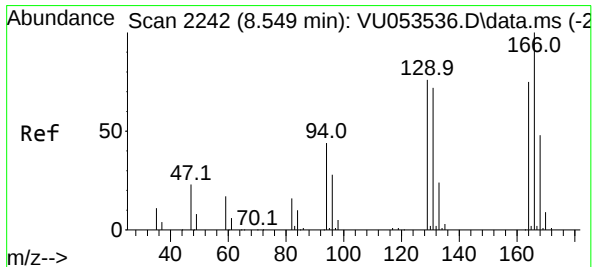
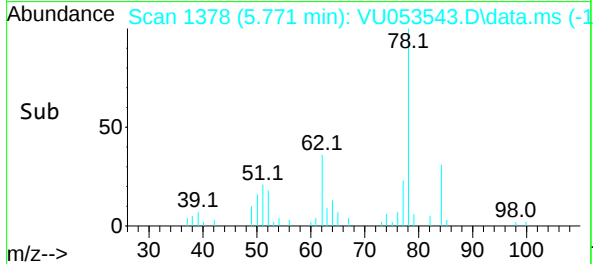
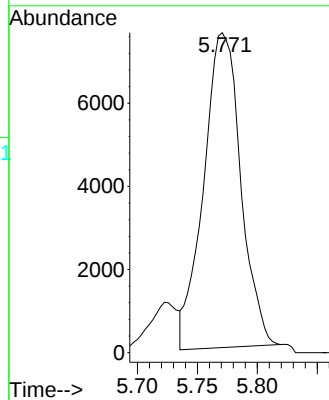
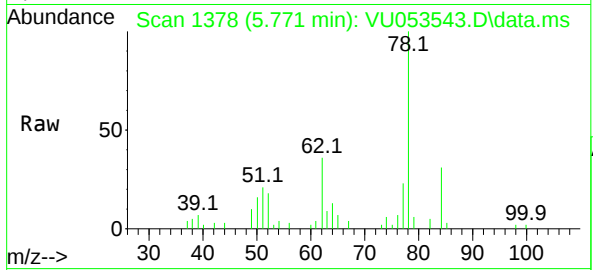




#33
Benzene
Concen: 2.596 ug/L
RT: 5.771 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

Instrument :
MSVOA_U
ClientSampleId :
PMW-8D(20230330)

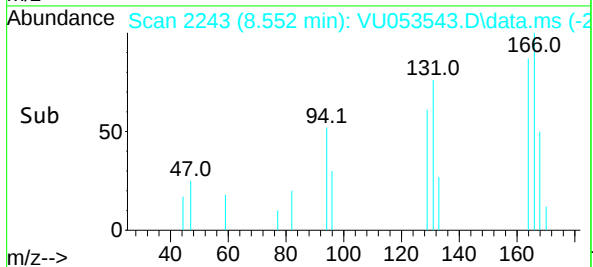
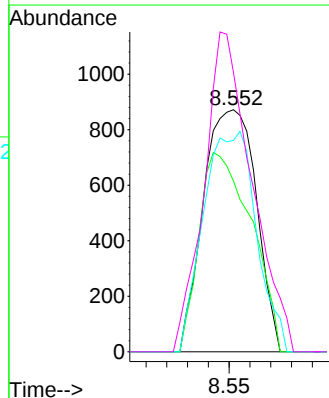
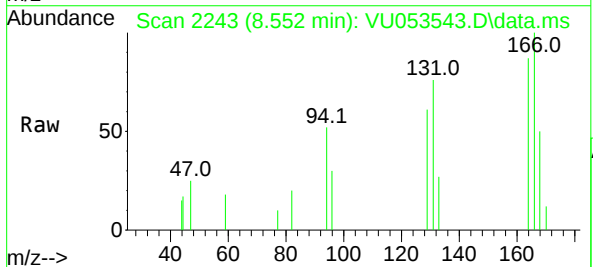
Tgt Ion: 78 Resp: 16321

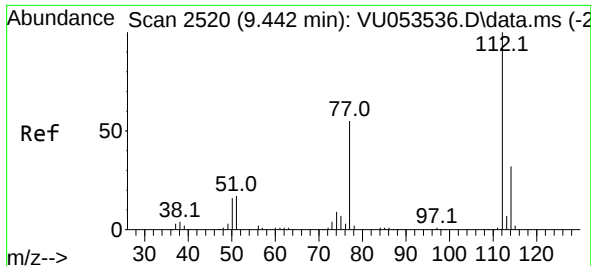


#46
Tetrachloroethene
Concen: 0.975 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. 0.003 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

Tgt Ion: 164 Resp: 1539

Ion	Ratio	Lower	Upper
164	100		
129	70.5	64.0	119.0
131	87.4	61.9	115.1
166	115.4	90.6	168.2

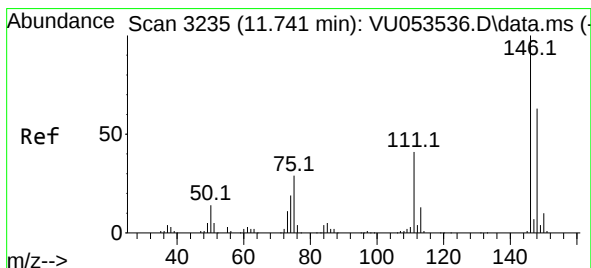
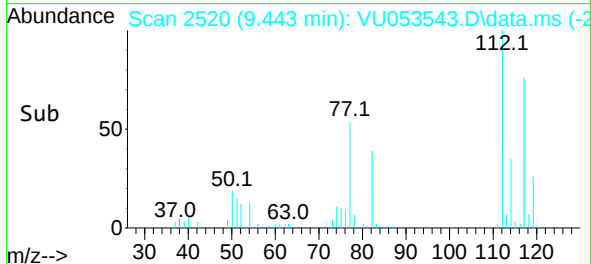
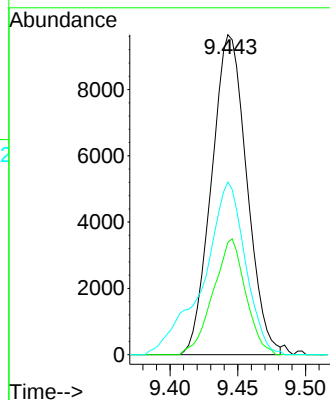
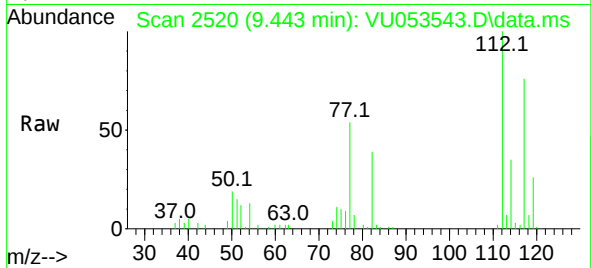




#51
Chlorobenzene
Concen: 3.556 ug/L
RT: 9.443 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

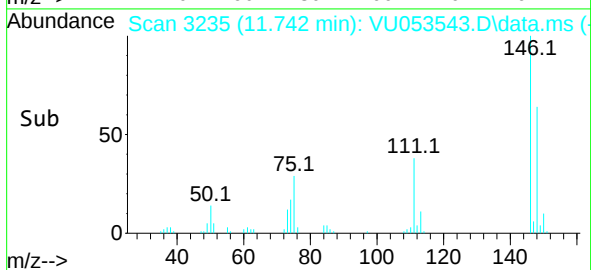
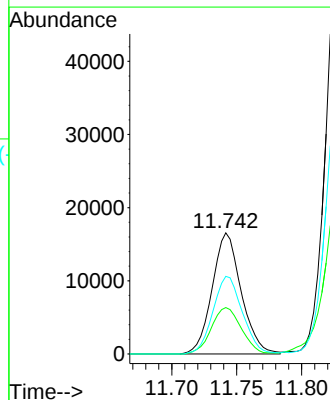
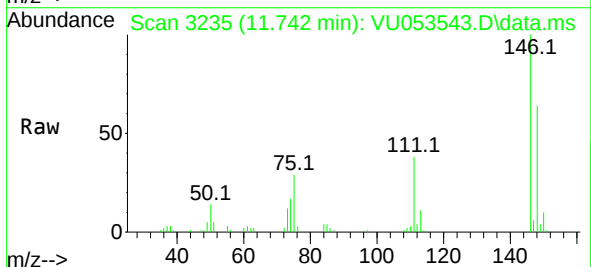
Instrument :
MSVOA_U
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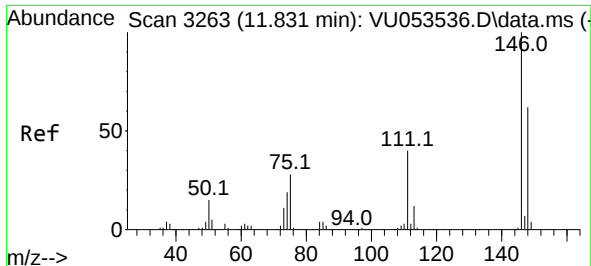
Tgt Ion:112 Resp: 17454
Ion Ratio Lower Upper
112 100
114 35.1 22.2 41.2
77 53.9 41.3 61.9



#64
1,3-Dichlorobenzene
Concen: 6.833 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.000 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

Tgt Ion:146 Resp: 25734
Ion Ratio Lower Upper
146 100
111 38.4 25.7 47.7
148 64.1 44.2 82.2





#65

1,4-Dichlorobenzene

Concen: 30.427 ug/L

RT: 11.832 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU053543.D

Acq: 04 Apr 2023 01:08

Instrument :

MSVOA_U

ClientSampleId :

PMW-8D(20230330)

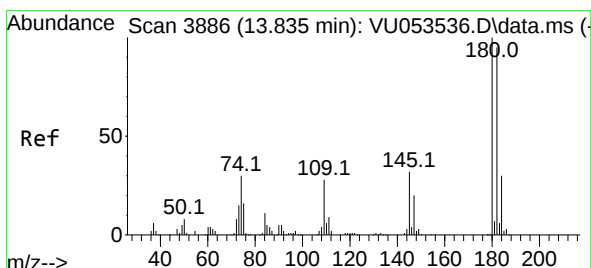
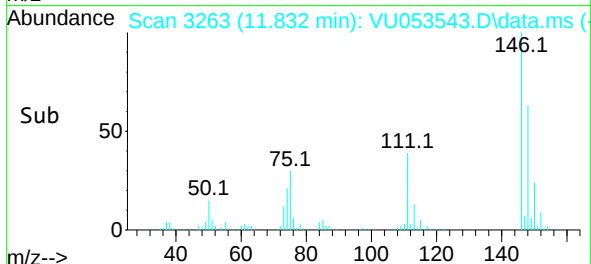
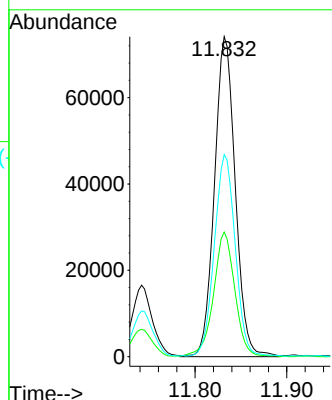
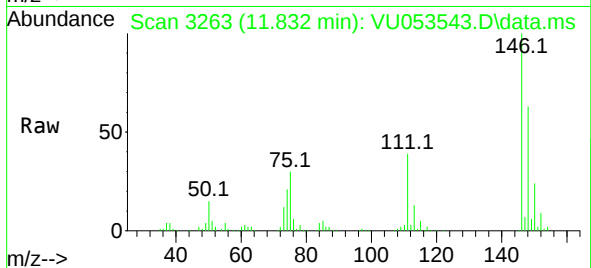
Tgt Ion:146 Resp: 116788

Ion Ratio Lower Upper

146 100

111 38.9 25.1 46.5

148 63.2 44.3 82.3



#70

1,2,4-trichlorobenzene

Concen: 18.431 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.003 min

Lab File: VU053543.D

Acq: 04 Apr 2023 01:08

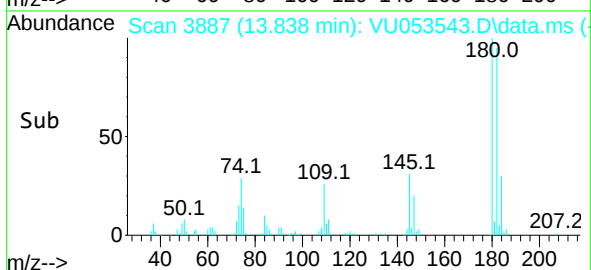
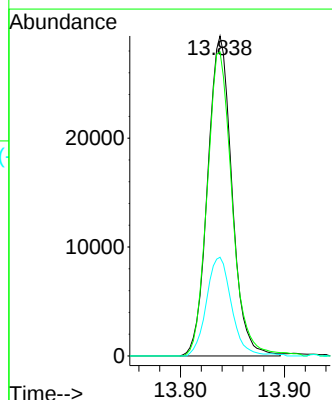
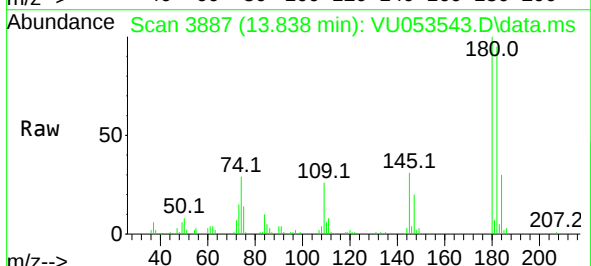
Tgt Ion:180 Resp: 47656

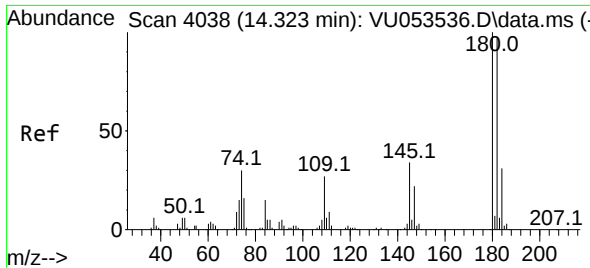
Ion Ratio Lower Upper

180 100

182 97.8 75.8 113.8

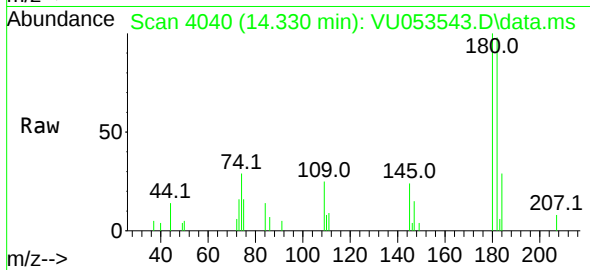
145 31.6 23.4 35.2





#72
 1,2,3-Trichlorobenzene
 Concen: 1.767 ug/L
 RT: 14.330 min Scan# 40
 Delta R.T. 0.007 min
 Lab File: VU053543.D
 Acq: 04 Apr 2023 01:08

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-8D(20230330)



Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	77.0	115.6
145	14.1	25.4	38.0

