

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053542.D
 Acq On : 04 Apr 2023 00:44
 Operator : JC/MD
 Sample : 02158-14
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 37 Sample Multiplier: 1

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

Quant Time: Apr 04 06:58:14 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)

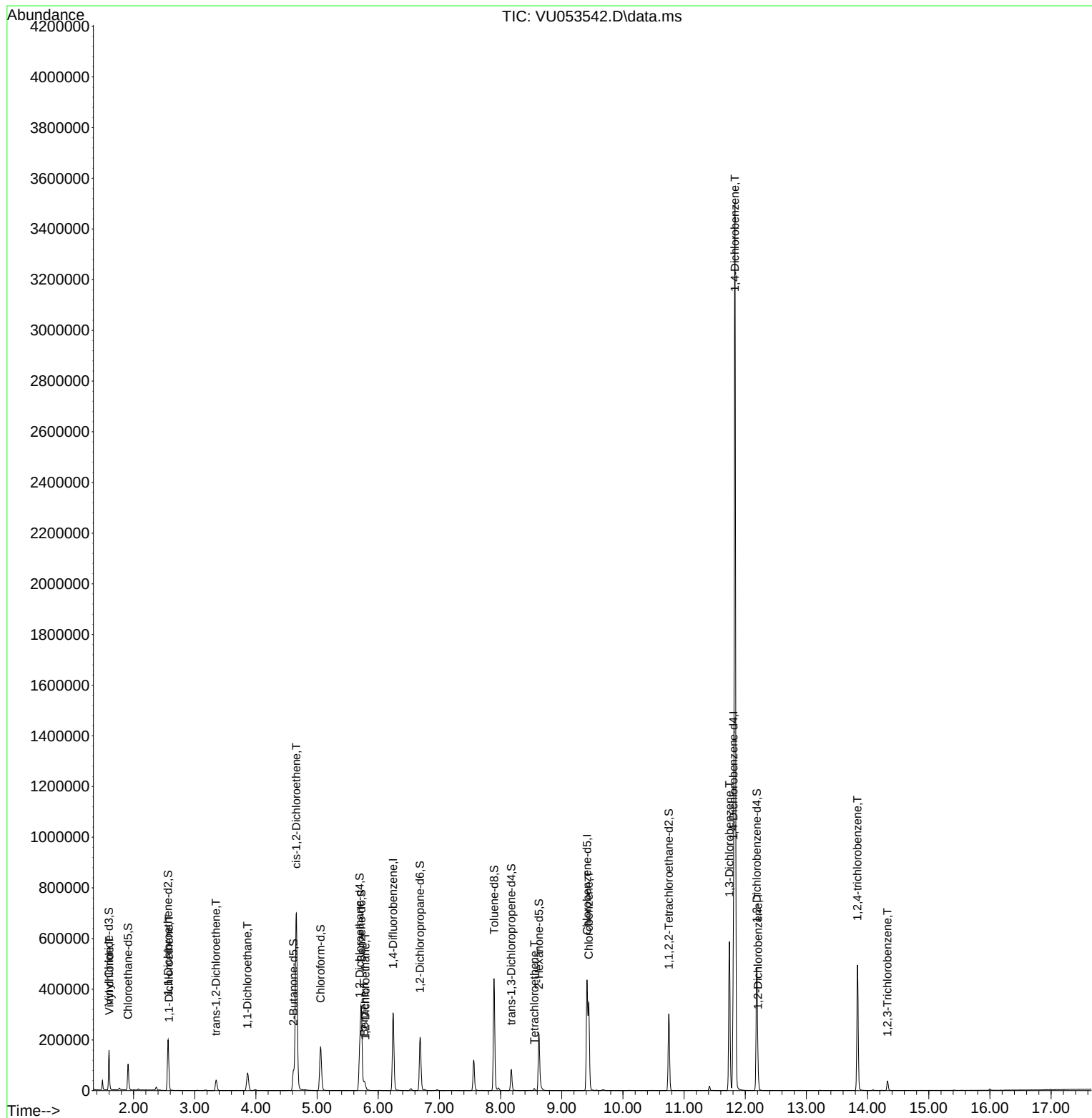
Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	268144	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	247124	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	134251	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	91499	43.823	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	87.640%		
7) Chloroethane-d5	1.909	69	77199	47.954	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.900%		
11) 1,1-Dichloroethene-d2	2.565	63	111734	34.571	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	69.140%		
21) 2-Butanone-d5	4.613	46	105028	111.102	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	111.100%		
24) Chloroform-d	5.057	84	157128	45.504	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.000%		
26) 1,2-Dichloroethane-d4	5.697	65	103254	50.604	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	101.200%		
32) Benzene-d6	5.723	84	325663	48.821	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.640%		
36) 1,2-Dichloropropane-d6	6.684	67	102064	50.059	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	100.120%		
41) Toluene-d8	7.893	98	307708	46.412	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	92.820%		
43) trans-1,3-Dichloroprop...	8.176	79	47975	45.584	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	91.160%		
47) 2-Hexanone-d5	8.626	63	81808	117.566	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	117.570%		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	145488	50.627	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	101.260%		
66) 1,2-Dichlorobenzene-d4	12.189	152	126426	45.115	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	90.240%		
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	20747	10.010	ug/L	94
12) 1,1-Dichloroethene	2.578	96	4305	2.616	ug/L #	1
17) trans-1,2-Dichloroethene	3.346	96	16300	9.857	ug/L	94
19) 1,1-Dichloroethane	3.861	63	78144	28.529	ug/L	98
20) cis-1,2-Dichloroethene	4.662	96	380617	199.280	ug/L	90
27) 1,2-Dichloroethane	5.790	62	9442	4.104	ug/L #	94
33) Benzene	5.771	78	29824	4.632	ug/L	100
46) Tetrachloroethene	8.552	164	1944	1.203	ug/L	97
51) Chlorobenzene	9.443	112	185755	36.949	ug/L	95
64) 1,3-Dichlorobenzene	11.742	146	243891	58.805	ug/L	97
65) 1,4-Dichlorobenzene	11.832	146	1394782	329.967	ug/L	97
67) 1,2-Dichlorobenzene	12.208	146	24048	5.818	ug/L	93
70) 1,2,4-trichlorobenzene	13.835	180	153537	53.920	ug/L	98
72) 1,2,3-Trichlorobenzene	14.327	180	12455	4.379	ug/L	98

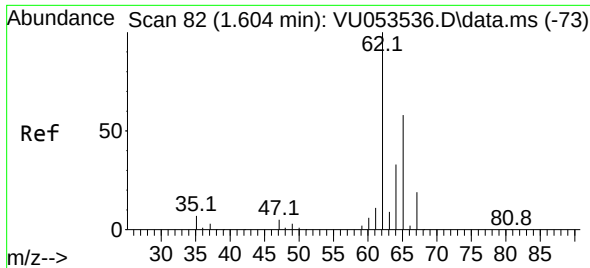
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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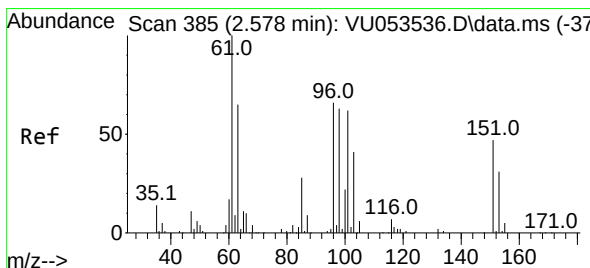
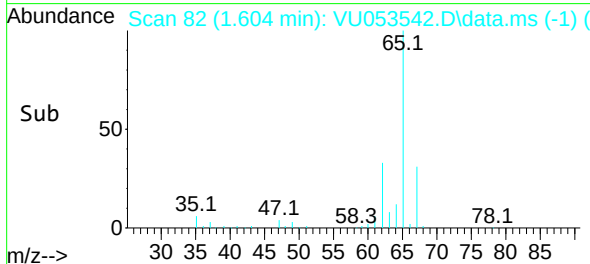
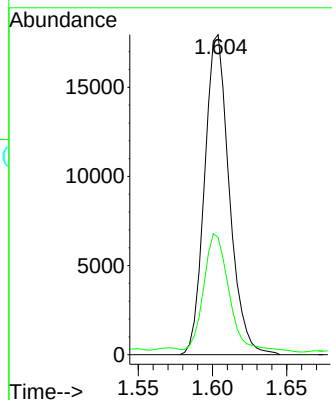
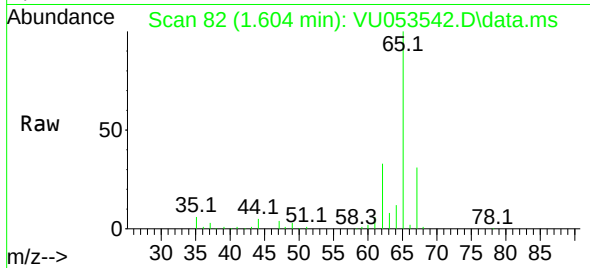




#5
 Vinyl chloride
 Concen: 10.010 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU053542.D
 Acq: 04 Apr 2023 00:44

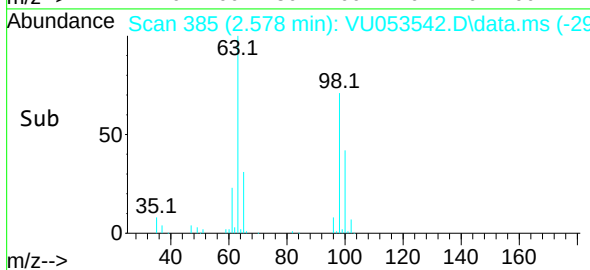
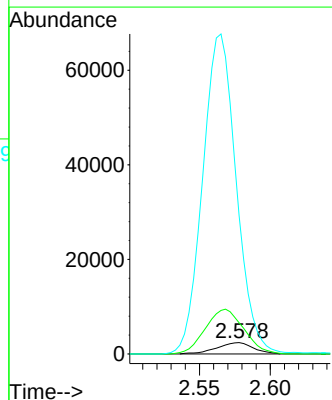
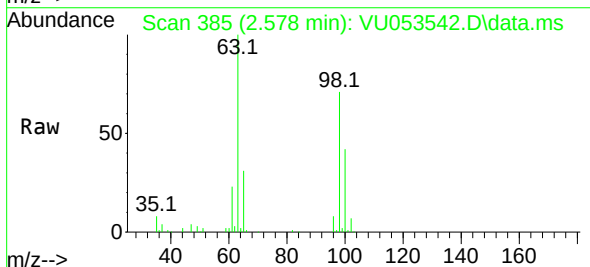
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-8S(20230330)

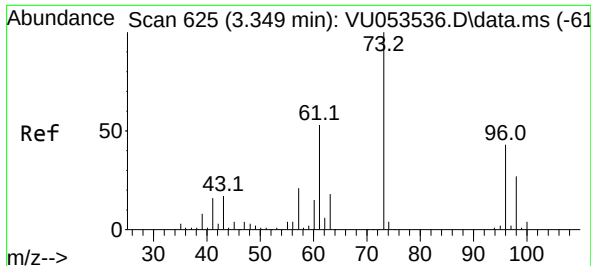
Tgt Ion: 62 Resp: 20747
 Ion Ratio Lower Upper
 62 100
 64 36.6 23.2 43.0



#12
 1,1-Dichloroethene
 Concen: 2.616 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. 0.000 min
 Lab File: VU053542.D
 Acq: 04 Apr 2023 00:44

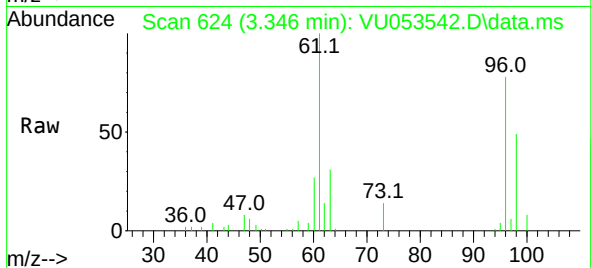
Tgt Ion: 96 Resp: 4305
 Ion Ratio Lower Upper
 96 100
 61 275.5 107.9 200.5#
 63 1221.2 79.1 146.9#





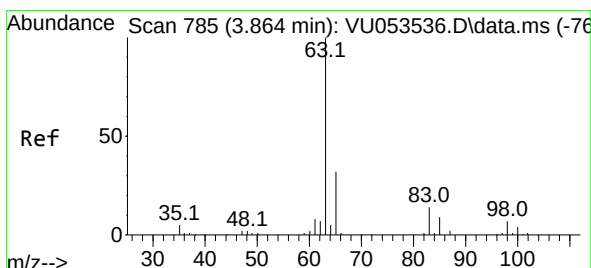
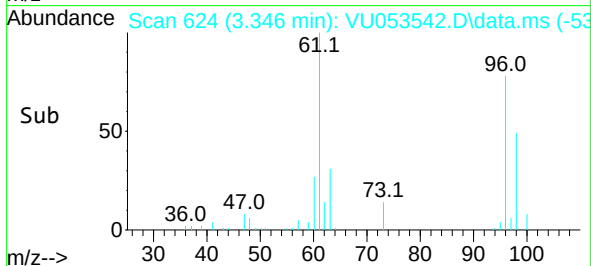
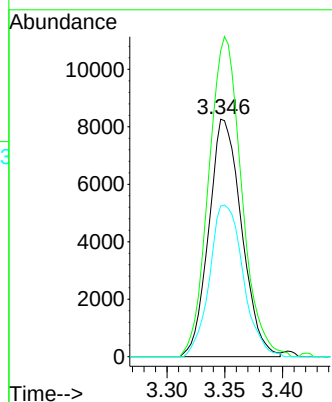
#17
trans-1,2-Dichloroethene
Concen: 9.857 ug/L
RT: 3.346 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

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



Tgt Ion: 96 Resp: 16300

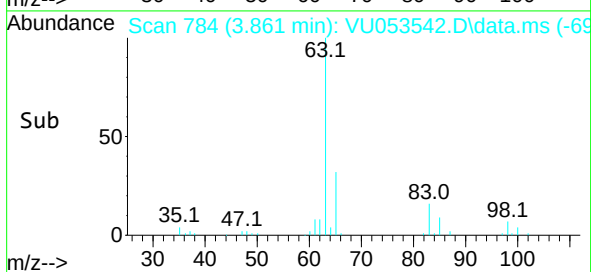
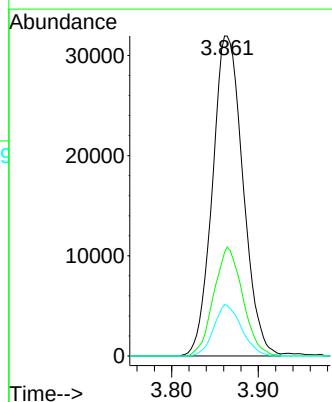
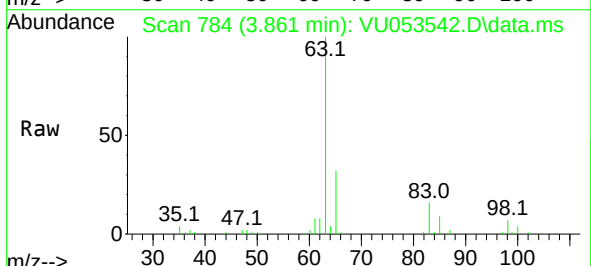
Ion	Ratio	Lower	Upper
96	100		
61	128.8	84.4	156.8
98	63.5	46.0	85.4

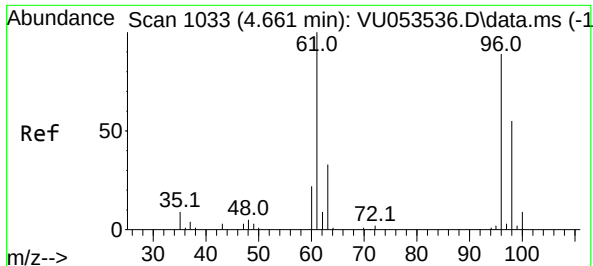


#19
1,1-Dichloroethane
Concen: 28.529 ug/L
RT: 3.861 min Scan# 784
Delta R.T. -0.003 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

Tgt Ion: 63 Resp: 78144

Ion	Ratio	Lower	Upper
63	100		
65	32.4	22.0	41.0
83	16.0	10.8	20.0

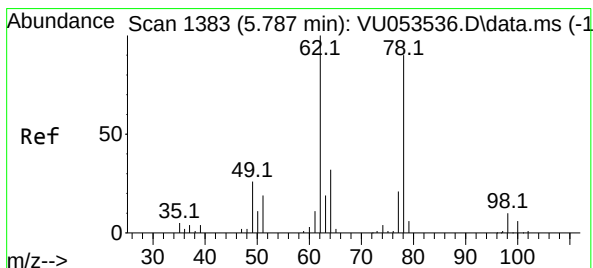
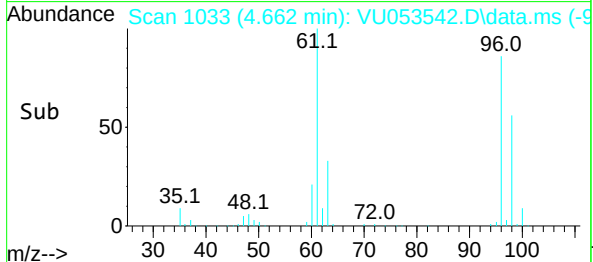
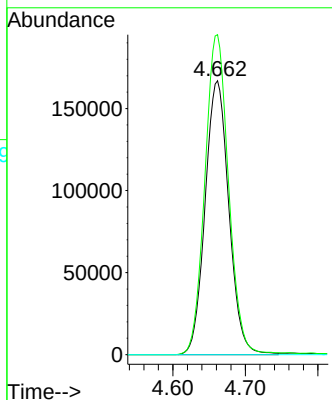
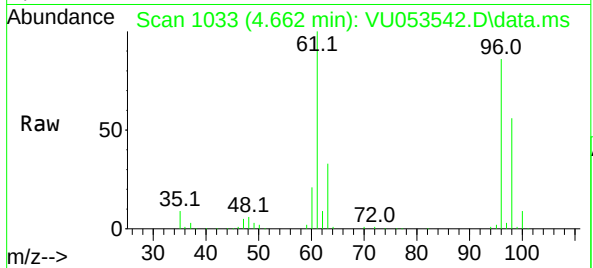




#20
 cis-1,2-Dichloroethene
 Concen: 199.280 ug/L
 RT: 4.662 min Scan# 1033
 Delta R.T. 0.000 min
 Lab File: VU053542.D
 Acq: 04 Apr 2023 00:44

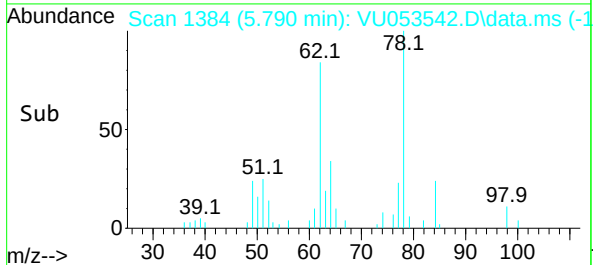
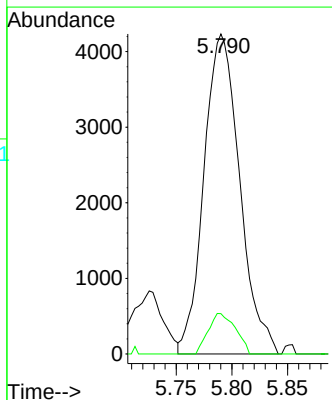
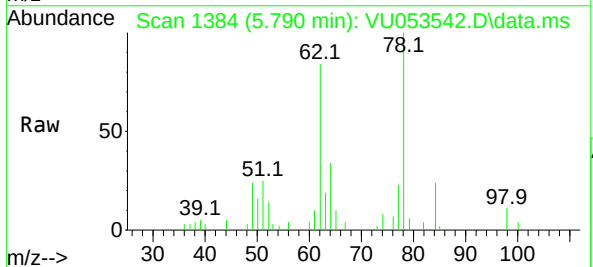
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-8S(20230330)

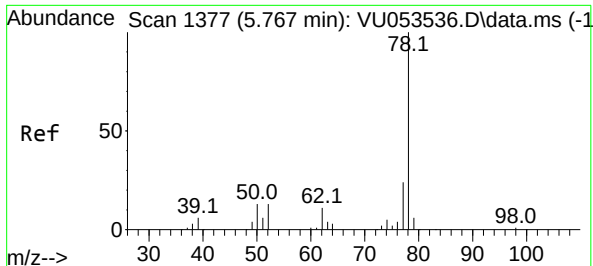
Tgt Ion: 96 Resp: 380617
 Ion Ratio Lower Upper
 96 100
 61 116.8 74.7 138.7
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 4.104 ug/L
 RT: 5.790 min Scan# 1384
 Delta R.T. 0.003 min
 Lab File: VU053542.D
 Acq: 04 Apr 2023 00:44

Tgt Ion: 62 Resp: 9442
 Ion Ratio Lower Upper
 62 100
 98 12.6 8.3 12.5#

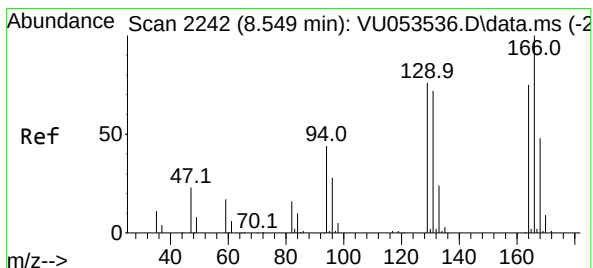
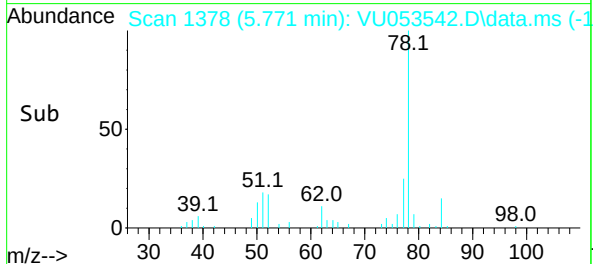
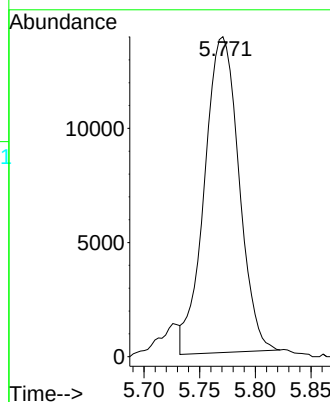
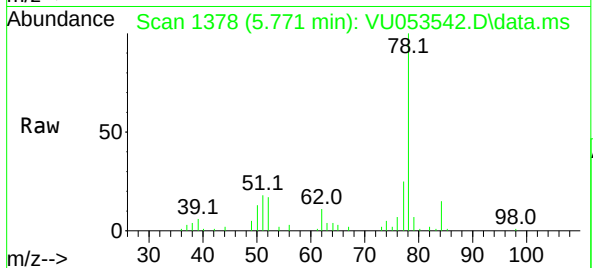




#33
Benzene
Concen: 4.632 ug/L
RT: 5.771 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

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

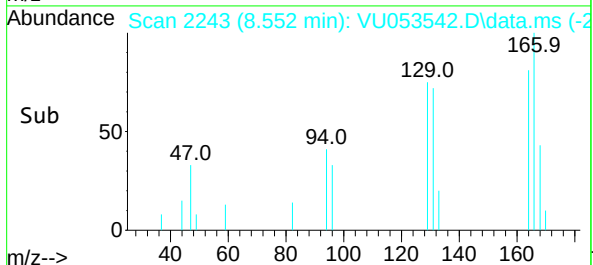
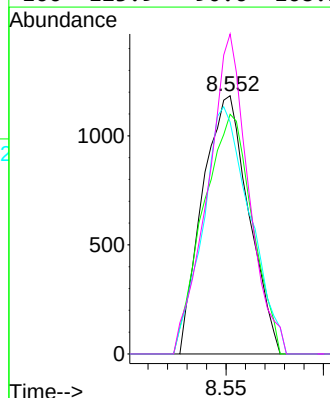
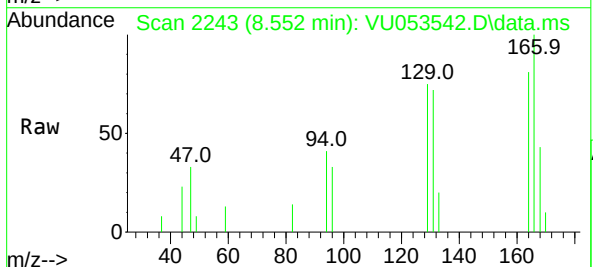
Tgt Ion: 78 Resp: 29824

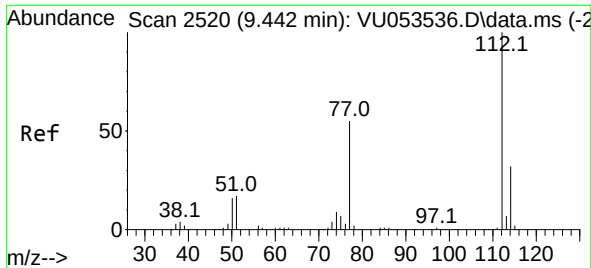


#46
Tetrachloroethene
Concen: 1.203 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. 0.003 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

Tgt Ion:164 Resp: 1944

Ion	Ratio	Lower	Upper
164	100		
129	92.8	64.0	119.0
131	89.8	61.9	115.1
166	123.9	90.6	168.2

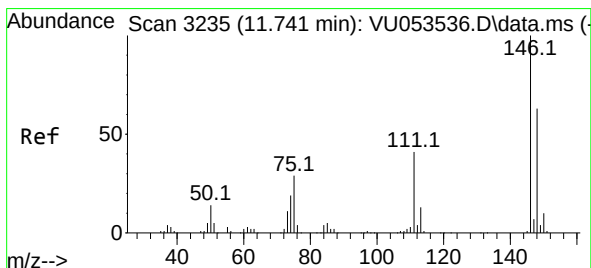
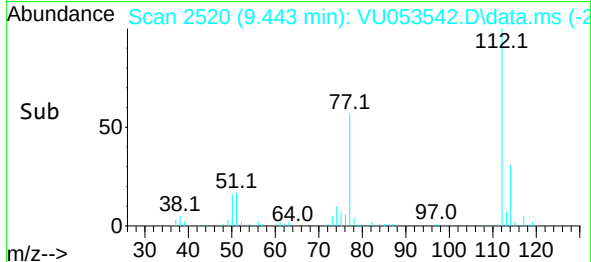
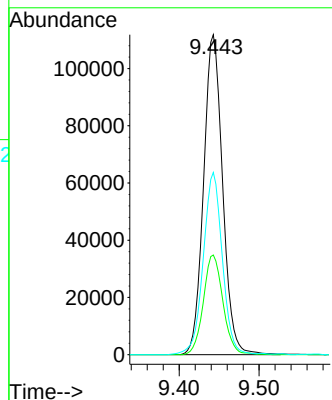
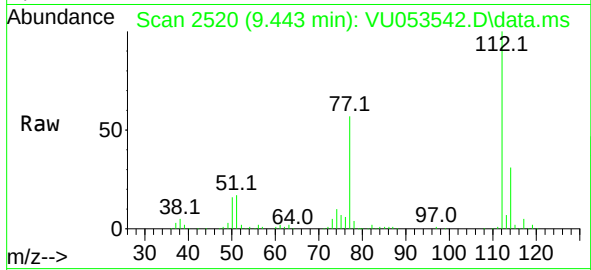




#51
Chlorobenzene
Concen: 36.949 ug/L
RT: 9.443 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

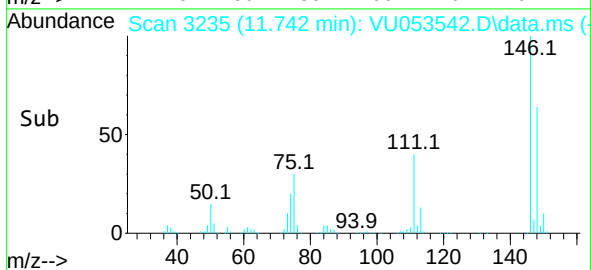
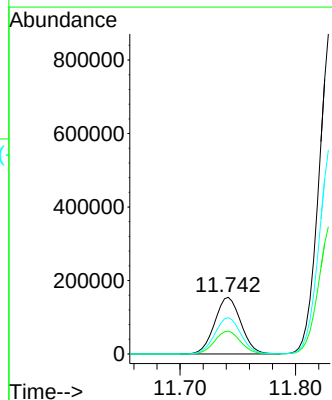
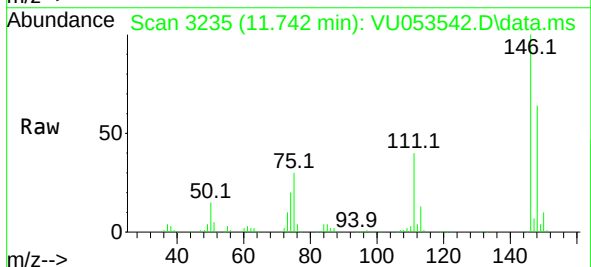
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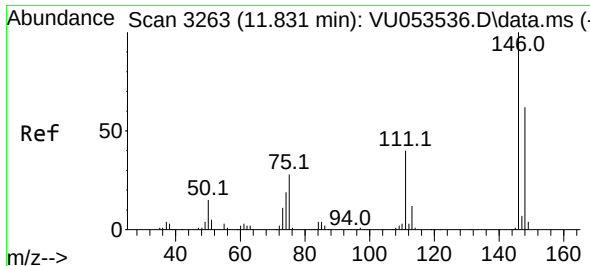
Tgt Ion:112 Resp: 185755
Ion Ratio Lower Upper
112 100
114 31.1 22.2 41.2
77 56.9 41.3 61.9



#64
1,3-Dichlorobenzene
Concen: 58.805 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.000 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

Tgt Ion:146 Resp: 243891
Ion Ratio Lower Upper
146 100
111 40.3 25.7 47.7
148 64.1 44.2 82.2

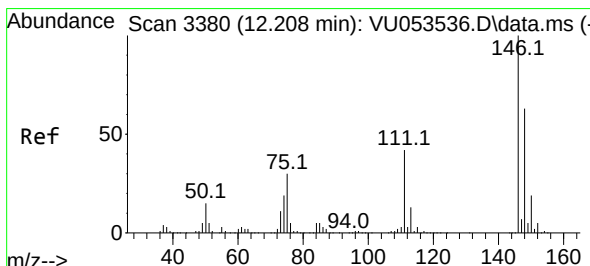
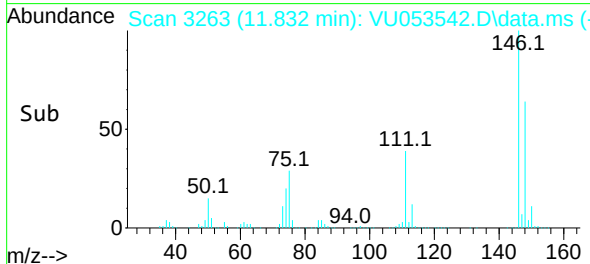
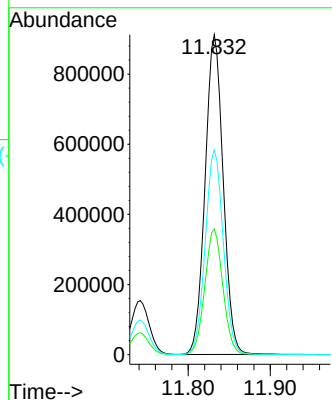
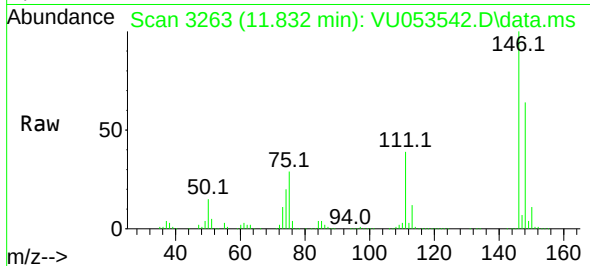




#65
1,4-Dichlorobenzene
Concen: 329.967 ug/L
RT: 11.832 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

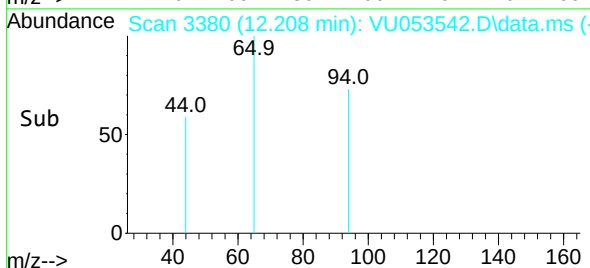
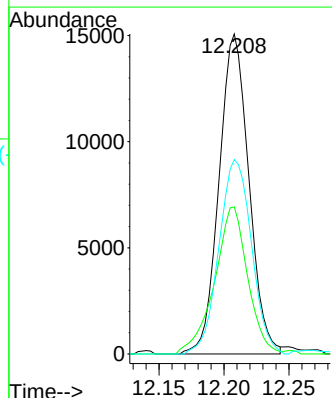
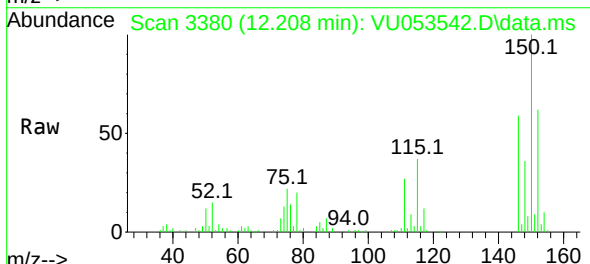
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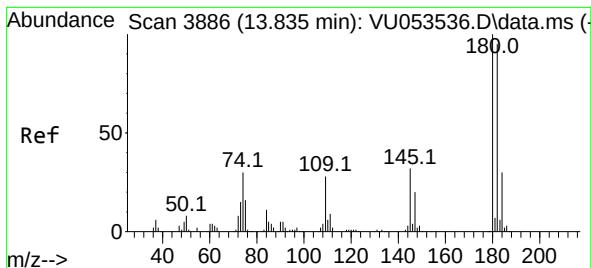
Tgt Ion:146 Resp: 1394782
Ion Ratio Lower Upper
146 100
111 39.3 25.1 46.5
148 64.0 44.3 82.3



#67
1,2-Dichlorobenzene
Concen: 5.818 ug/L
RT: 12.208 min Scan# 3380
Delta R.T. 0.000 min
Lab File: VU053542.D
Acq: 04 Apr 2023 00:44

Tgt Ion:146 Resp: 24048
Ion Ratio Lower Upper
146 100
111 46.0 31.5 47.3
148 60.8 51.6 77.4





#70

1,2,4-trichlorobenzene

Concen: 53.920 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. 0.000 min

Lab File: VU053542.D

Acq: 04 Apr 2023 00:44

Instrument :

MSVOA_U

ClientSampleId :

PMW-8S(20230330)

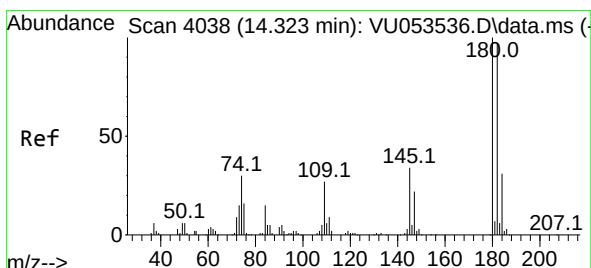
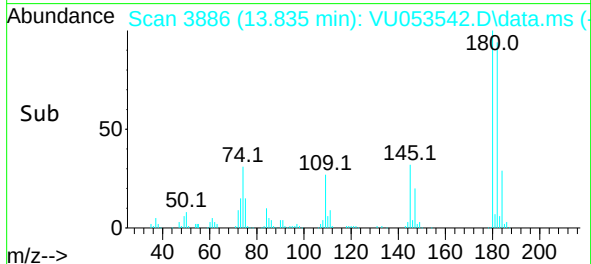
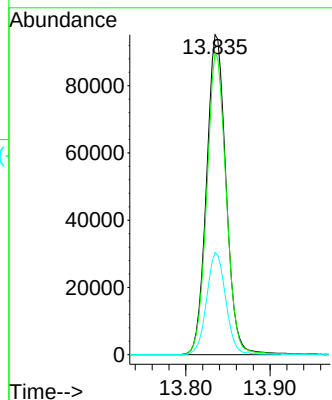
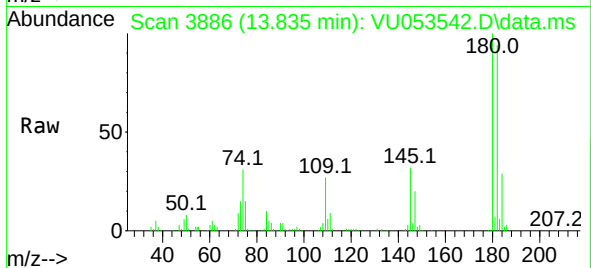
Tgt Ion:180 Resp: 153537

Ion Ratio Lower Upper

180 100

182 93.2 75.8 113.8

145 31.0 23.4 35.2



#72

1,2,3-Trichlorobenzene

Concen: 4.379 ug/L

RT: 14.327 min Scan# 4039

Delta R.T. 0.003 min

Lab File: VU053542.D

Acq: 04 Apr 2023 00:44

Tgt Ion:180 Resp: 12455

Ion Ratio Lower Upper

180 100

182 99.1 77.0 115.6

145 31.7 25.4 38.0

