

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						
5) Vinyl chloride	1.601	62	13361	6.773	ug/L	91
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1209	0.688	ug/L #	1
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
44) trans-1,3-Dichloropropene	8.173	75	2386	0.968	ug/L	84
46) Tetrachloroethene	8.552	164	1539	0.975	ug/L	88
51) Chlorobenzene	9.443	112	17454	3.556	ug/L	96
60) 1,2,3-Trichloropropane	11.742	75	7383	4.177	ug/L #	49
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
69) 1,3,5-Trichlorobenzene	13.838	180	47656	17.088	ug/L	97
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

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QLast Update : Sat Apr 01 04:51:17 2023
Response via : Initial Calibration

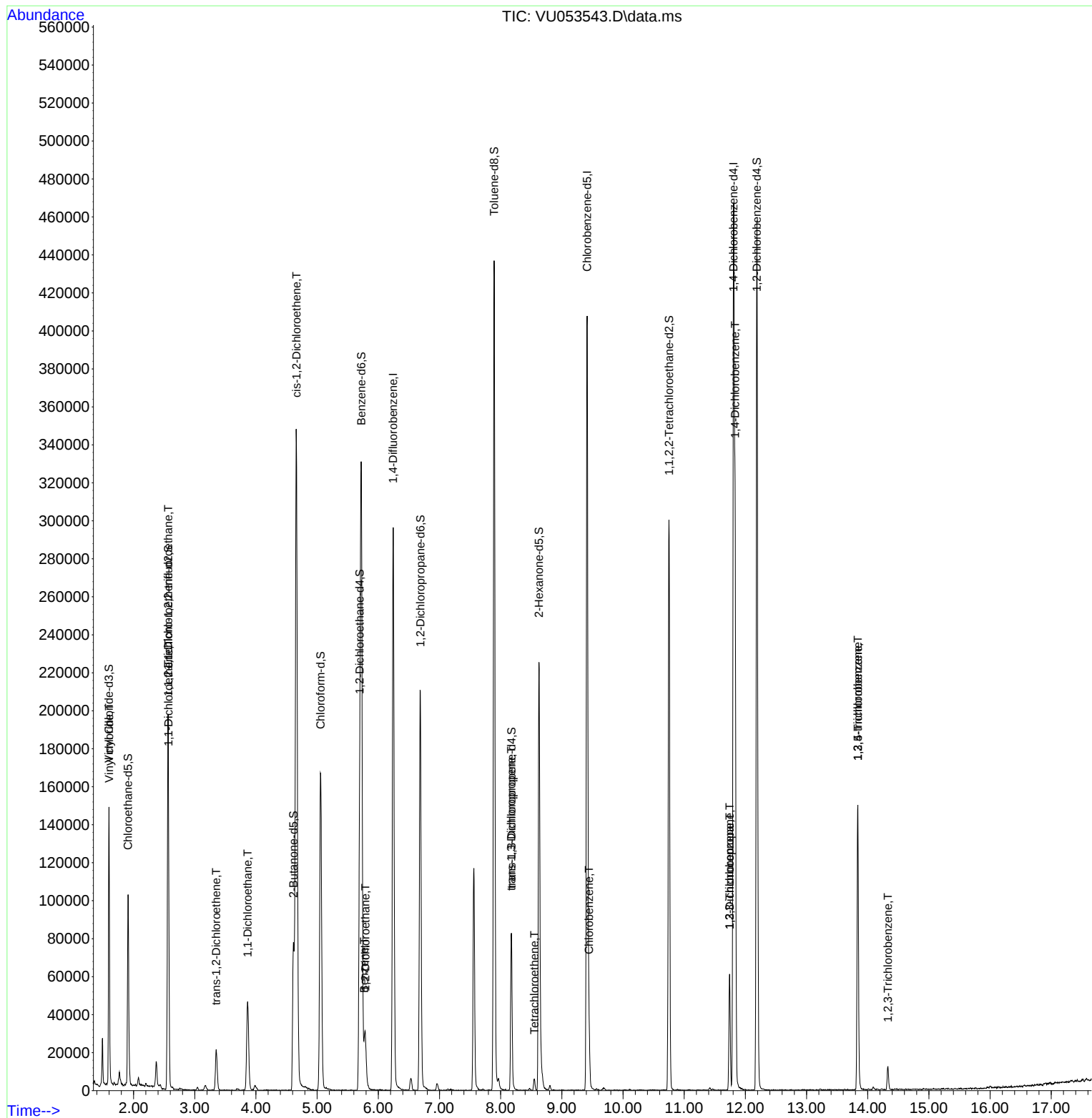
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

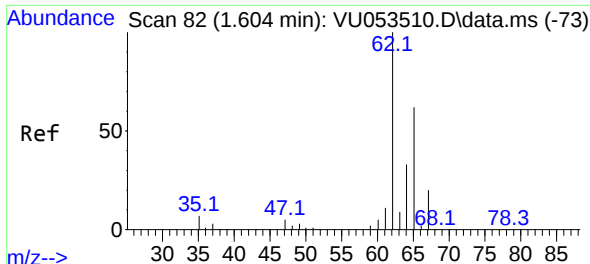
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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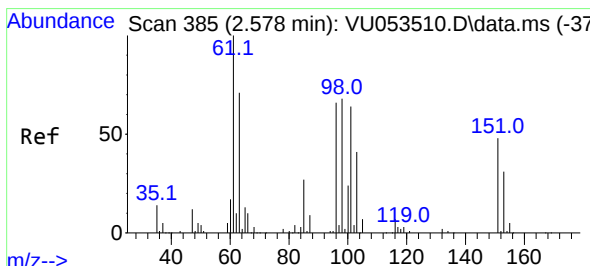
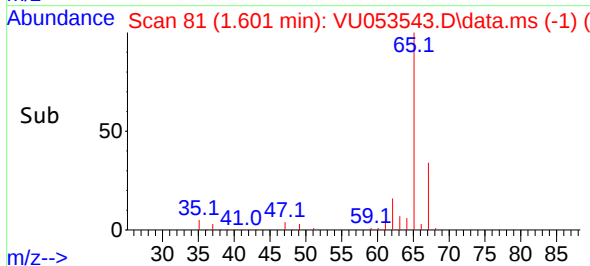
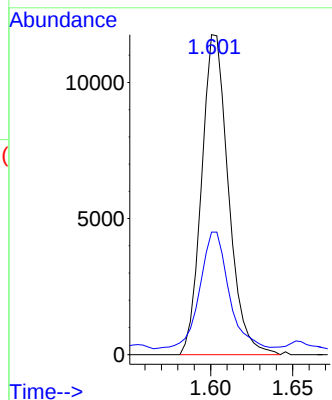
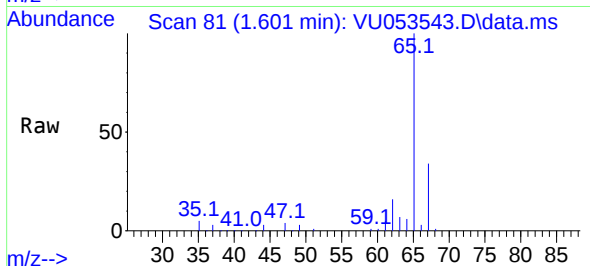




#5
 Vinyl chloride
 Concen: 6.773 ug/L
 RT: 1.601 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU053543.D
 Acq: 04 Apr 2023 01:08

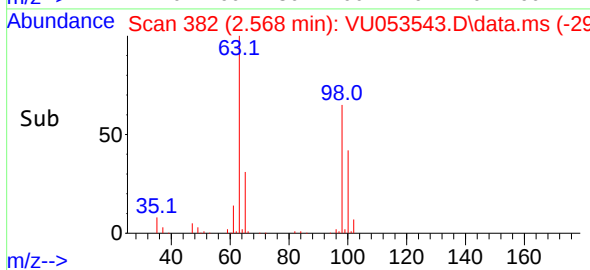
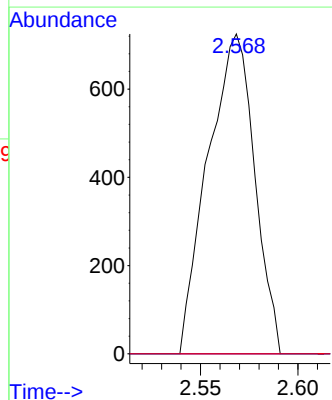
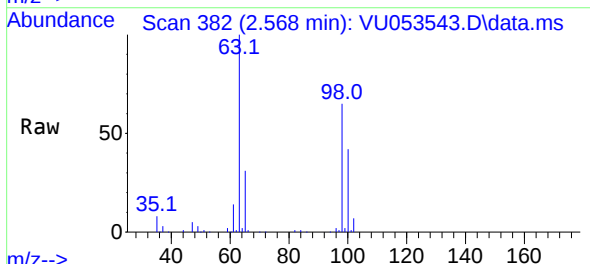
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-8D(20230330)

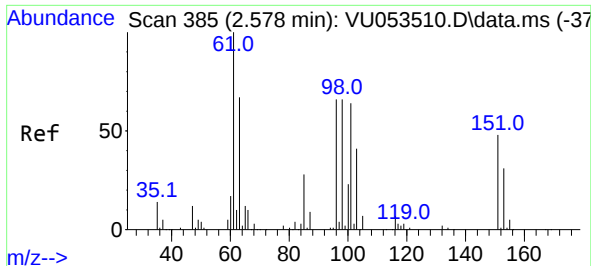
Tgt Ion: 62 Resp: 13361
 Ion Ratio Lower Upper
 62 100
 64 38.3 23.2 43.0



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.688 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.010 min
 Lab File: VU053543.D
 Acq: 04 Apr 2023 01:08

Tgt Ion: 101 Resp: 1209
 Ion Ratio Lower Upper
 101 100
 85 116.4 32.6 48.8#
 151 0.0 65.8 98.6#





#12

1,1-Dichloroethene

Concen: 1.706 ug/L

RT: 2.572 min Scan# 385

Delta R.T. -0.006 min

Lab File: VU053543.D

Acq: 04 Apr 2023 01:08

Instrument :

MSVOA_U

ClientSampleId :

PMW-8D(20230330)

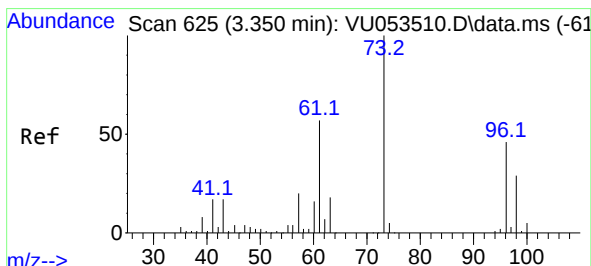
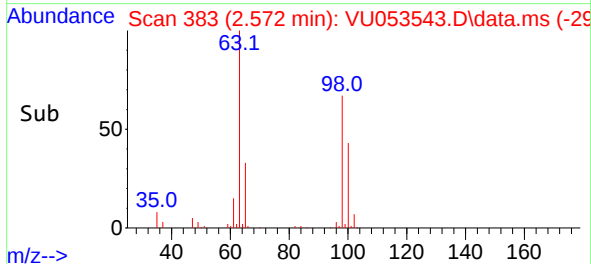
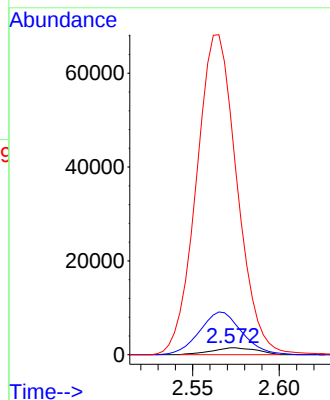
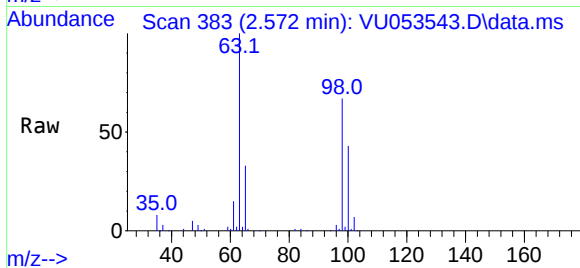
Tgt Ion: 96 Resp: 2672

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# 625

Delta R.T. 0.000 min

Lab File: VU053543.D

Acq: 04 Apr 2023 01:08

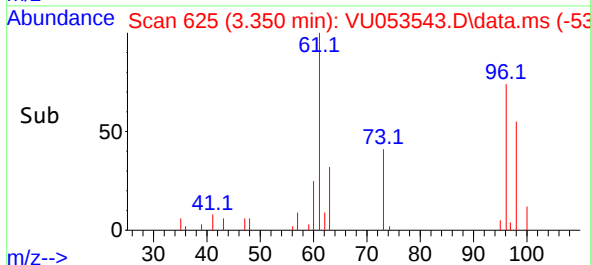
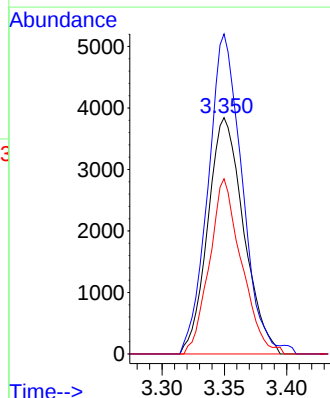
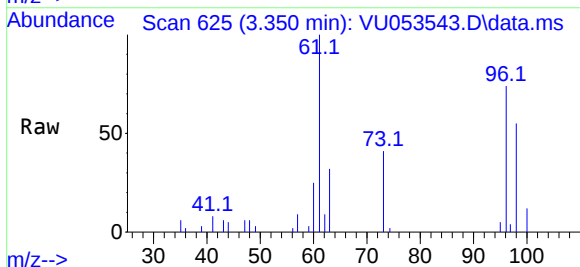
Tgt Ion: 96 Resp: 7691

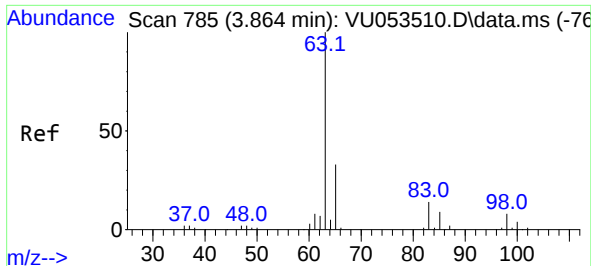
Ion Ratio Lower Upper

96 100

61 135.4 84.4 156.8

98 74.1 46.0 85.4

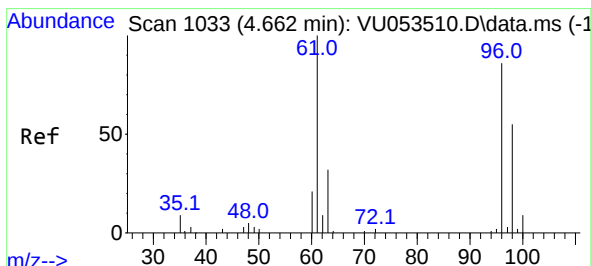
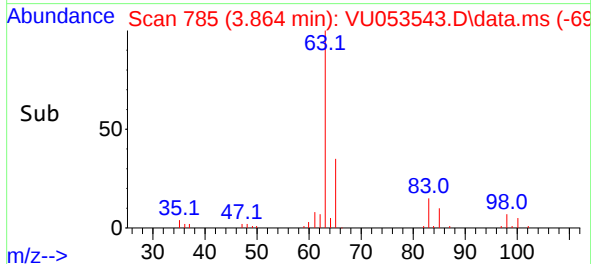
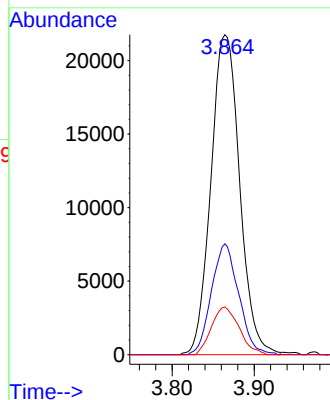
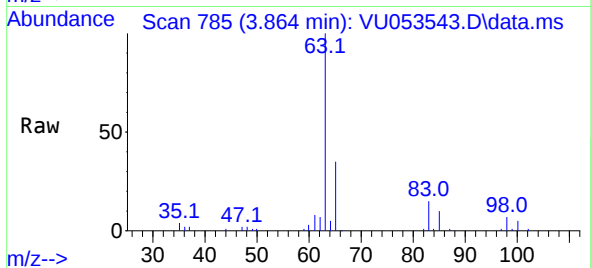




#19
1,1-Dichloroethane
Concen: 20.336 ug/L
RT: 3.864 min Scan# 785
Delta R.T. 0.000 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

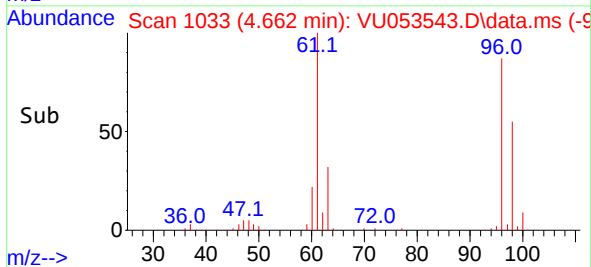
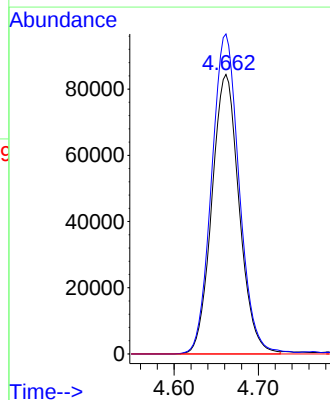
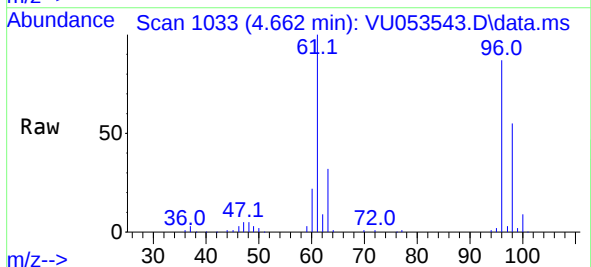
Instrument :
MSVOA_U
ClientSampleId :
PMW-8D(20230330)

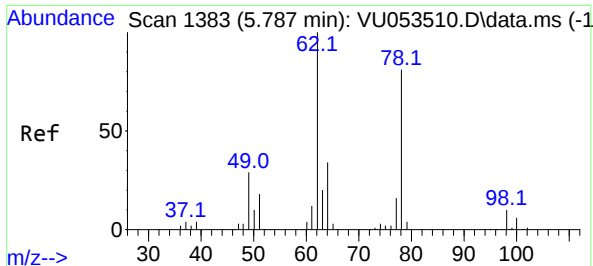
Tgt Ion: 63 Resp: 53020
Ion Ratio Lower Upper
63 100
65 34.7 22.0 41.0
83 14.9 10.8 20.0



#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

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

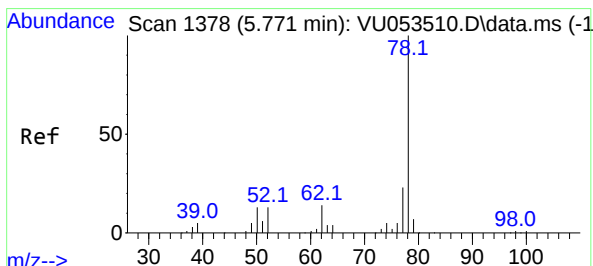
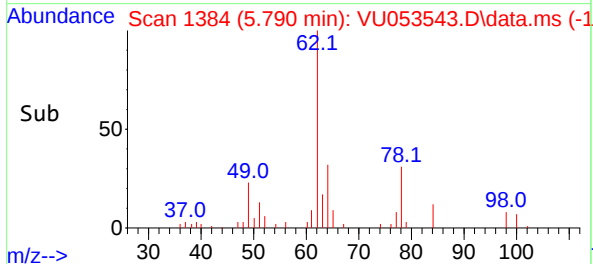
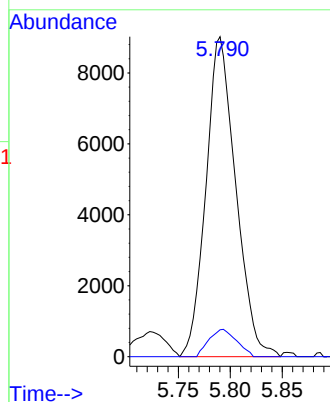
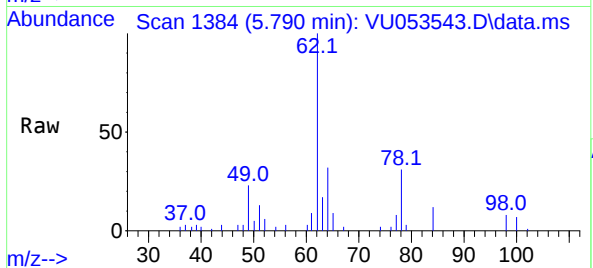




#27
1,2-Dichloroethane
Concen: 8.217 ug/L
RT: 5.790 min Scan# 1384
Delta R.T. 0.003 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

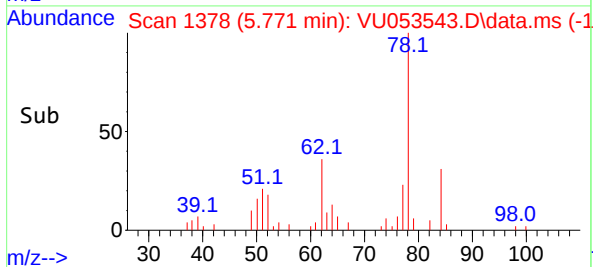
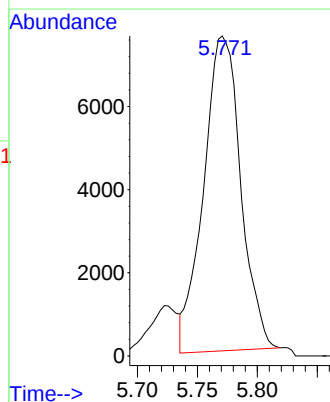
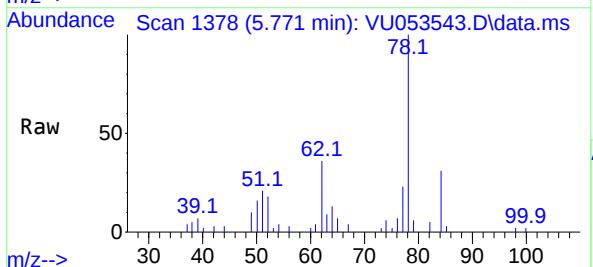
Instrument :
MSVOA_U
ClientSampleId :
PMW-8D(20230330)

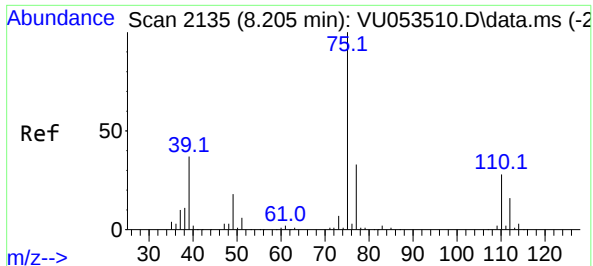
Tgt Ion: 62 Resp: 17994
Ion Ratio Lower Upper
62 100
98 8.4 8.3 12.5



#33
Benzene
Concen: 2.596 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

Tgt Ion: 78 Resp: 16321





#44

trans-1,3-Dichloropropene

Concen: 0.968 ug/L

RT: 8.173 min Scan# 2135

Delta R.T. -0.032 min

Lab File: VU053543.D

Acq: 04 Apr 2023 01:08

Instrument :

MSVOA_U

ClientSampleId :

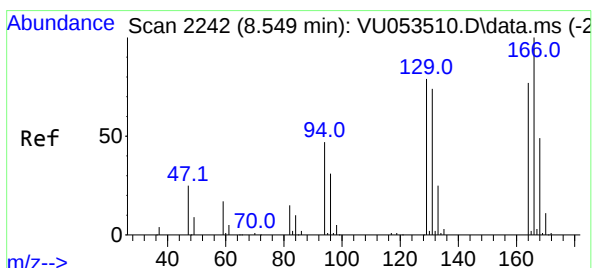
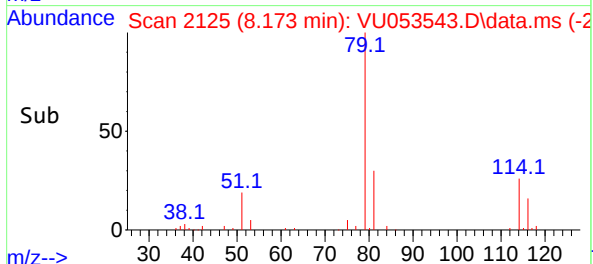
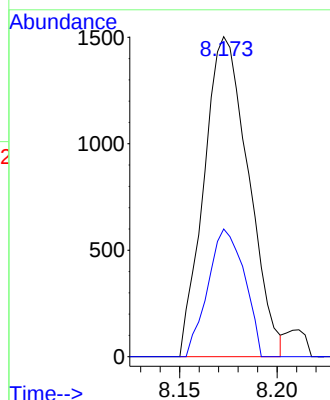
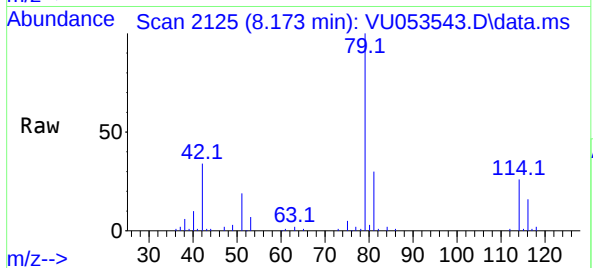
PMW-8D(20230330)

Tgt Ion: 75 Resp: 2386

Ion Ratio Lower Upper

75 100

77 39.9 21.8 40.4



#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

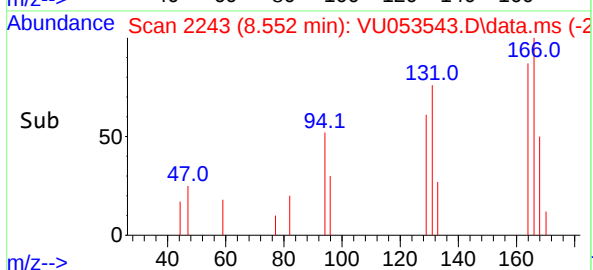
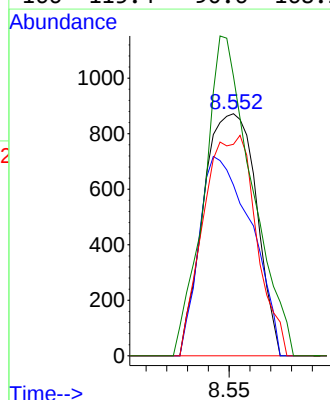
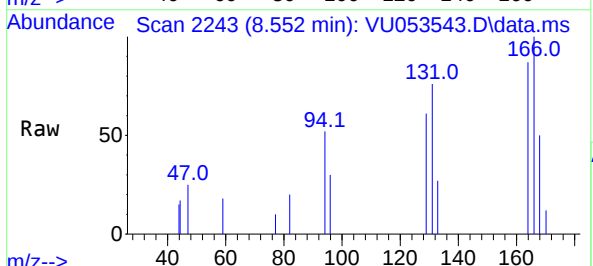
Ion Ratio Lower Upper

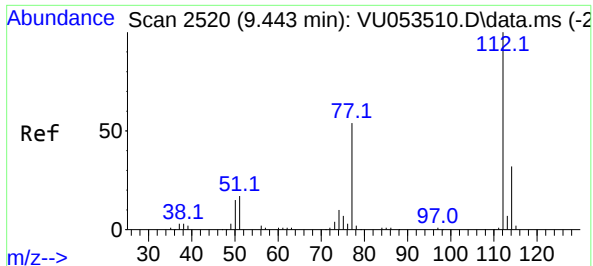
164 100

129 70.5 64.0 119.0

131 87.4 61.9 115.1

166 115.4 90.6 168.2

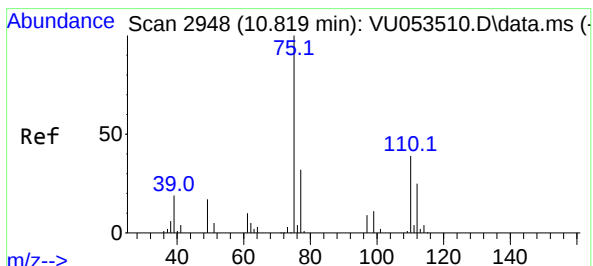
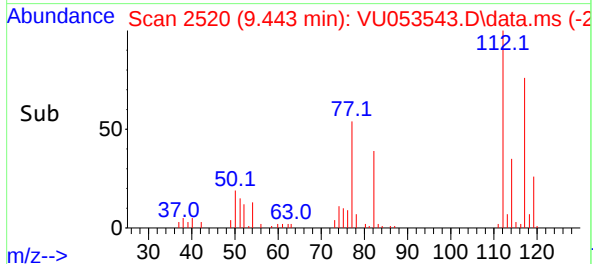
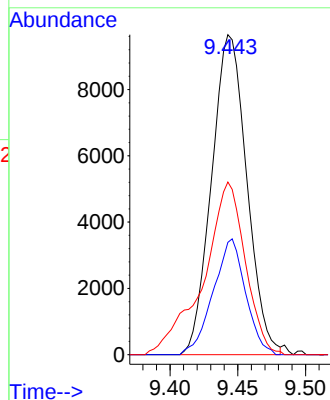
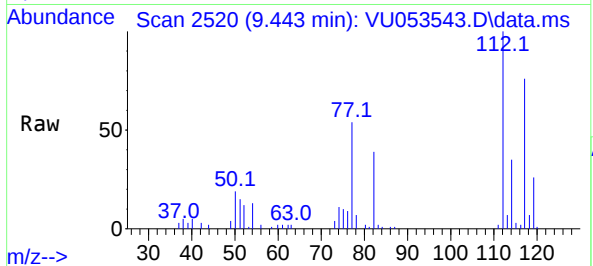




#51
Chlorobenzene
Concen: 3.556 ug/L
RT: 9.443 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

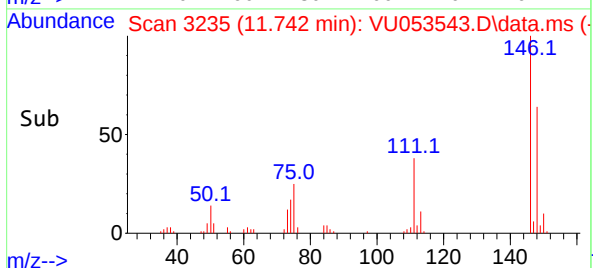
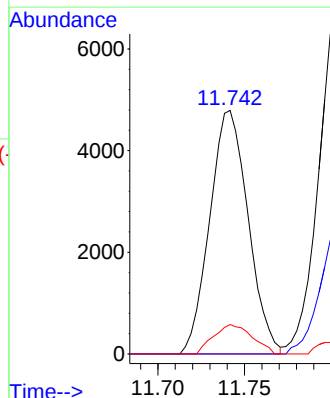
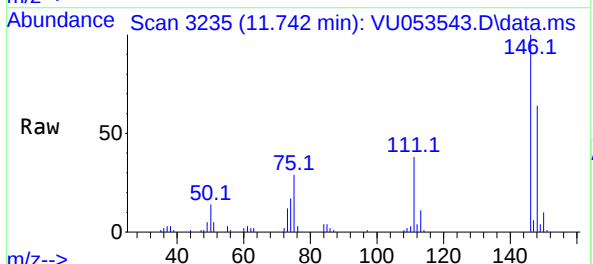
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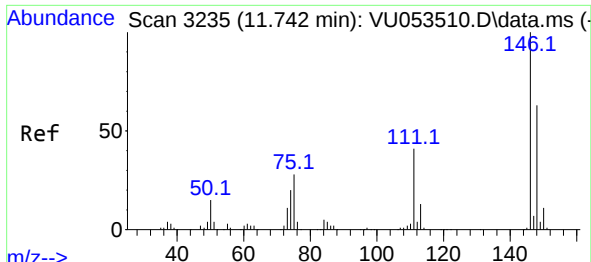
Tgt Ion:	112	Resp:	17454
Ion	Ratio	Lower	Upper
112	100		
114	35.1	22.2	41.2
77	53.9	41.3	61.9



#60
1,2,3-Trichloropropane
Concen: 4.177 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.926 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

Tgt Ion:	75	Resp:	7383
Ion	Ratio	Lower	Upper
75	100		
77	0.6	26.0	39.0#
110	12.1	32.6	48.8#

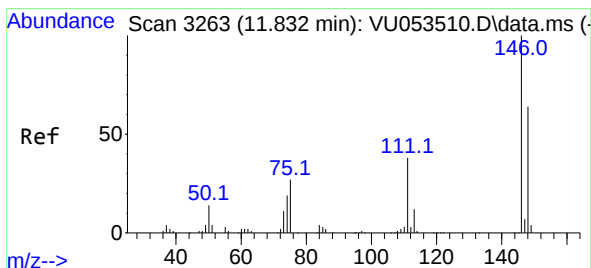
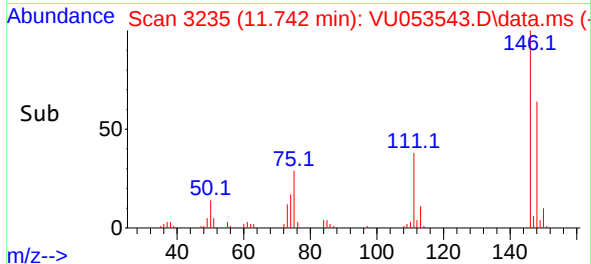
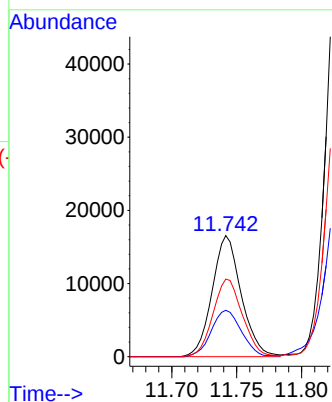
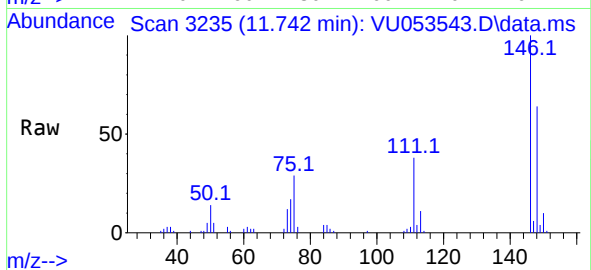




#64
1,3-Dichlorobenzene
Concen: 6.833 ug/L
RT: 11.742 min Scan# 311
Delta R.T. 0.000 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

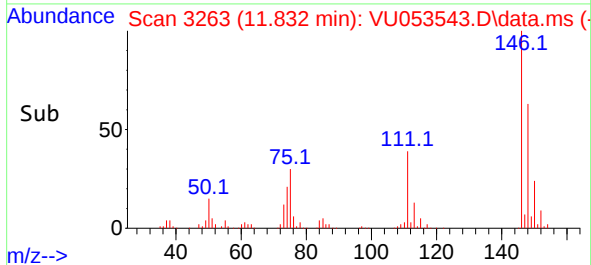
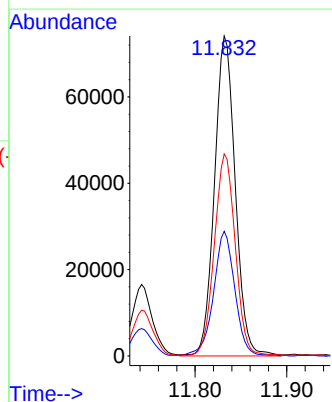
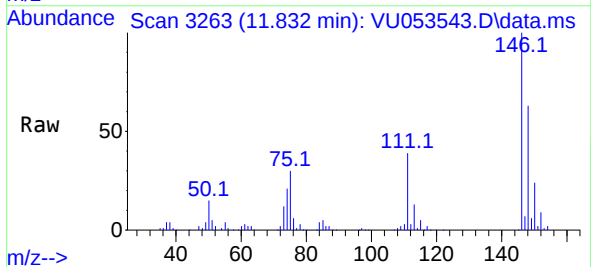
Instrument :
MSVOA_U
ClientSampleId :
PMW-8D(20230330)

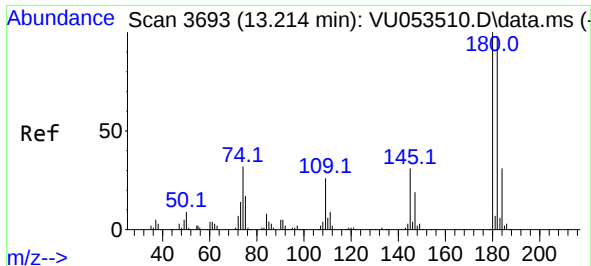
Tgt Ion:146 Resp: 25734
Ion Ratio Lower Upper
146 100
111 38.4 25.7 47.7
148 64.1 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 30.427 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU053543.D
Acq: 04 Apr 2023 01:08

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



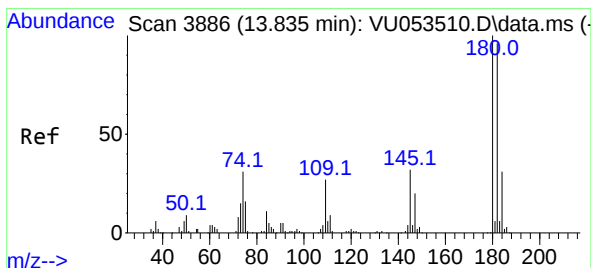
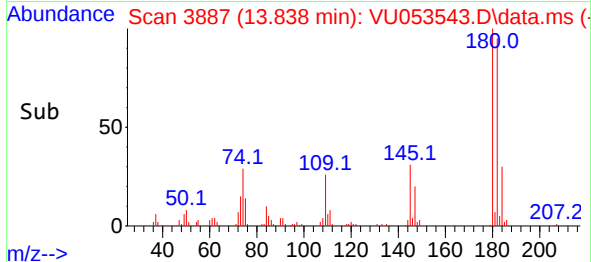
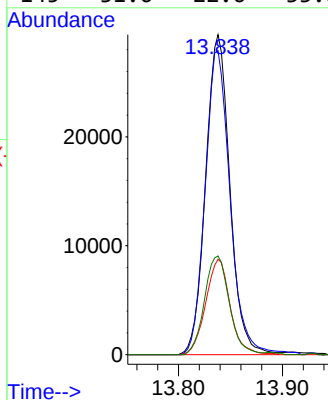
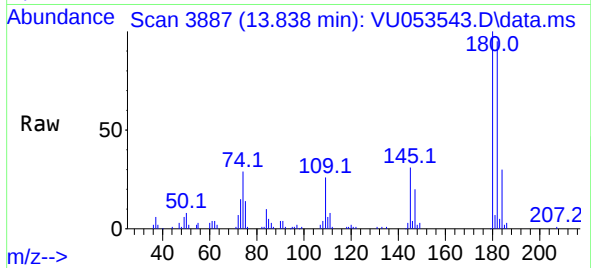


#69
 1,3,5-Trichlorobenzene
 Concen: 17.088 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.624 min
 Lab File: VU053543.D
 Acq: 04 Apr 2023 01:08

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

Tgt Ion:180 Resp: 47656

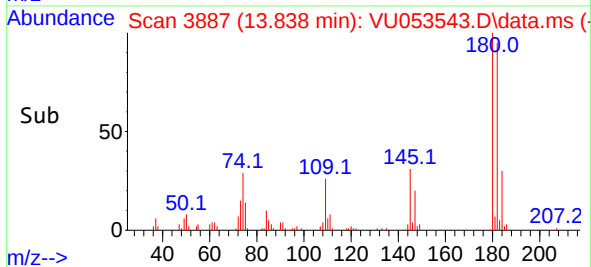
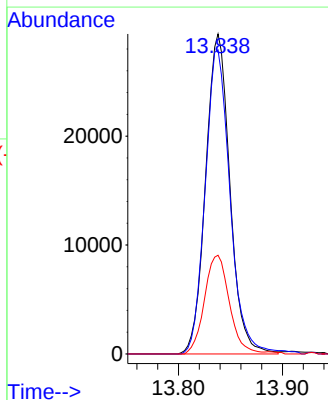
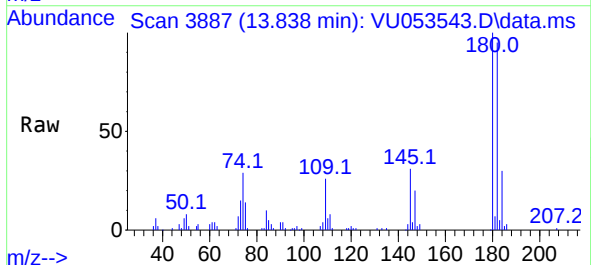
Ion	Ratio	Lower	Upper
180	100		
182	97.8	75.6	113.4
184	29.9	24.2	36.2
145	31.6	22.6	33.8

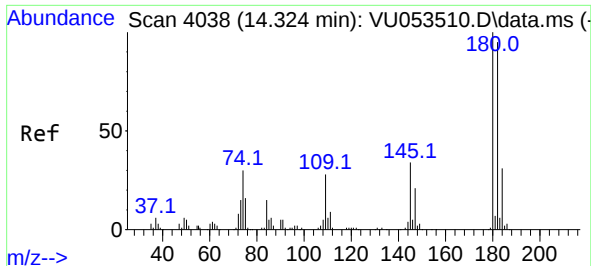


#70
 1,2,4-trichlorobenzene
 Concen: 18.431 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.003 min
 Lab File: VU053543.D
 Acq: 04 Apr 2023 01:08

Tgt Ion:180 Resp: 47656

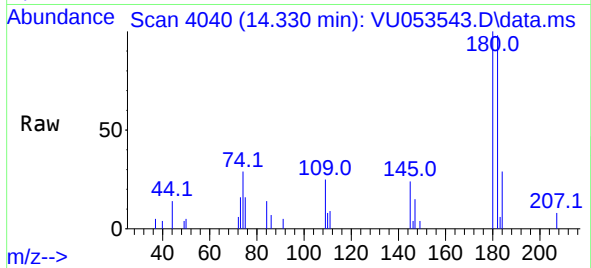
Ion	Ratio	Lower	Upper
180	100		
182	97.8	75.8	113.8
145	31.6	23.4	35.2





#72
 1,2,3-Trichlorobenzene
 Concen: 1.767 ug/L
 RT: 14.330 min Scan# 4038
 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:180 Resp: 4563
 Ion Ratio Lower Upper
 180 100
 182 94.1 77.0 115.6
 145 14.1 25.4 38.0#

