

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053548.D
 Acq On : 04 Apr 2023 03:06
 Operator : JC/MD
 Sample : 02158-23
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-3(20230331)

Quant Time: Apr 04 06:59:02 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	256691	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	241371	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	126010	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	85851	42.952	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	85.900%		
7) Chloroethane-d5	1.909	69	72456	47.016	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.040%		
11) 1,1-Dichloroethene-d2	2.565	63	104369	33.733	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	67.460%		
21) 2-Butanone-d5	4.610	46	96340	106.459	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	106.460%		
24) Chloroform-d	5.057	84	151931	45.962	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.920%		
26) 1,2-Dichloroethane-d4	5.697	65	97199	49.762	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	99.520%		
32) Benzene-d6	5.722	84	311551	47.819	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.640%		
36) 1,2-Dichloropropane-d6	6.684	67	98545	49.485	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	98.960%		
41) Toluene-d8	7.893	98	289165	44.655	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.300%		
43) trans-1,3-Dichloroprop...	8.172	79	45751	44.507	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	89.020%		
47) 2-Hexanone-d5	8.626	63	74348	109.392	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	109.390%		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	138321	49.281	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	98.560%		
66) 1,2-Dichlorobenzene-d4	12.188	152	120029	45.634	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	91.260%		
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	5399	2.721	ug/L #	65
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	1176	0.665	ug/L #	1
12) 1,1-Dichloroethene	2.568	96	1887	1.198	ug/L #	1
17) trans-1,2-Dichloroethene	3.353	96	2361	1.492	ug/L	77
19) 1,1-Dichloroethane	3.864	63	63491	24.213	ug/L	95
20) cis-1,2-Dichloroethene	4.661	96	23306	12.747	ug/L	90
27) 1,2-Dichloroethane	5.793	62	11985	5.441	ug/L	100
33) Benzene	5.767	78	16497	2.623	ug/L	100
34) Trichloroethene	6.539	95	5346	2.811	ug/L	91
44) trans-1,3-Dichloropropene	8.172	75	2037	0.826	ug/L	99
46) Tetrachloroethene	8.552	164	1764	1.118	ug/L	93
49) Dibromochloromethane	8.549	129	1881	1.032	ug/L #	11
51) Chlorobenzene	9.443	112	19529	3.977	ug/L	98
63) 1,2,4-Trimethylbenzene	11.465	105	6540	1.066	ug/L	96
64) 1,3-Dichlorobenzene	11.741	146	5122	1.316	ug/L	89
65) 1,4-Dichlorobenzene	11.832	146	13767	3.470	ug/L	96
70) 1,2,4-trichlorobenzene	13.838	180	13154	4.922	ug/L #	93
71) Naphthalene	14.082	128	31833	3.979	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Sat Apr 01 04:51:17 2023
Response via : Initial Calibration

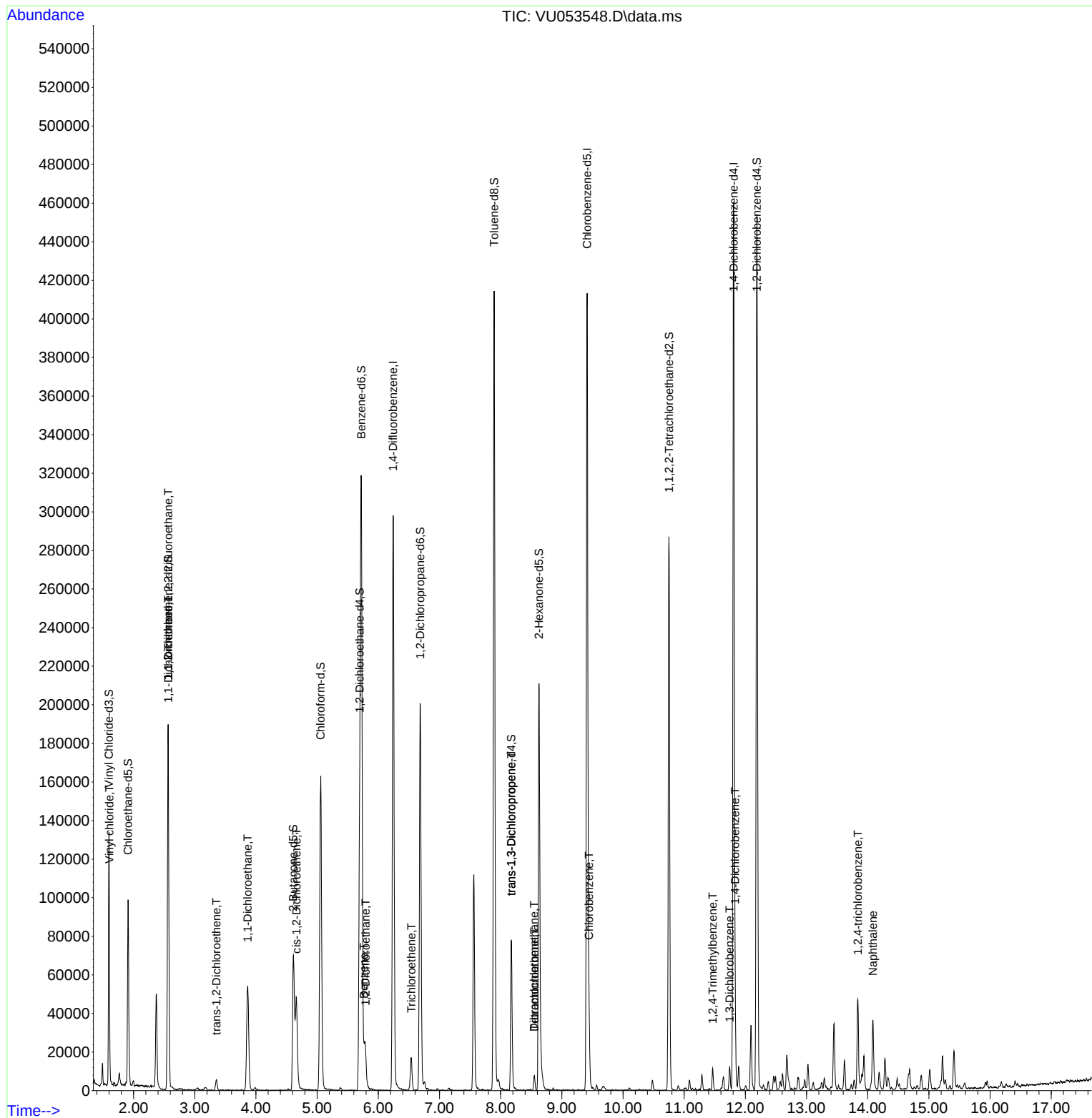
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

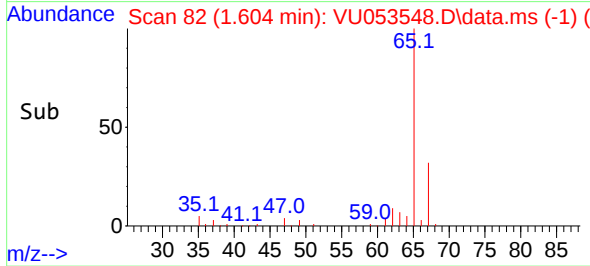
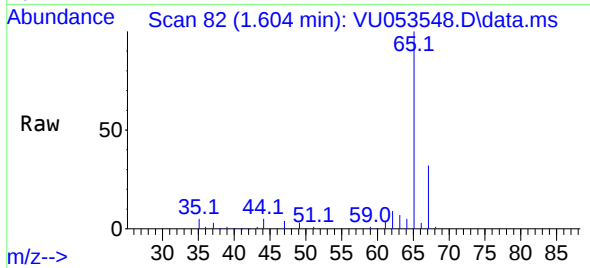
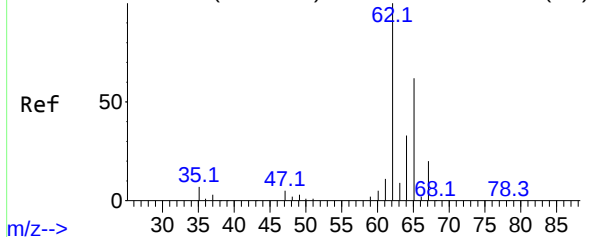
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
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Abundance Scan 82 (1.604 min): VU053510.D\data.ms (-73)



#5

Vinyl chloride

Concen: 2.721 ug/L

RT: 1.604 min Scan# 81

Delta R.T. -0.000 min

Lab File: VU053548.D

Acq: 04 Apr 2023 03:06

Instrument :

MSVOA_U

ClientSampleId :

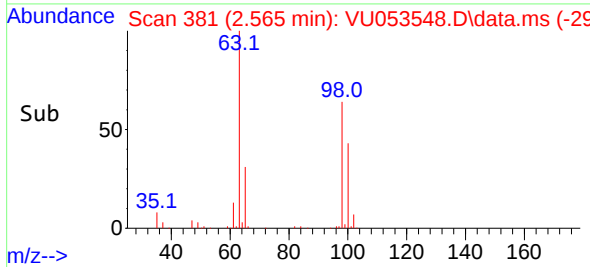
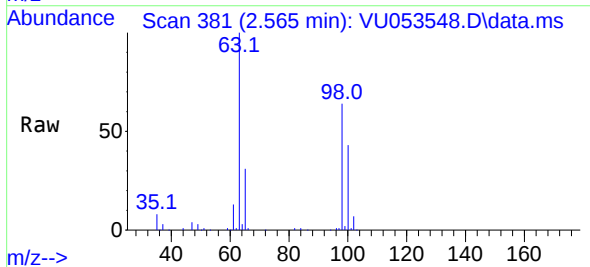
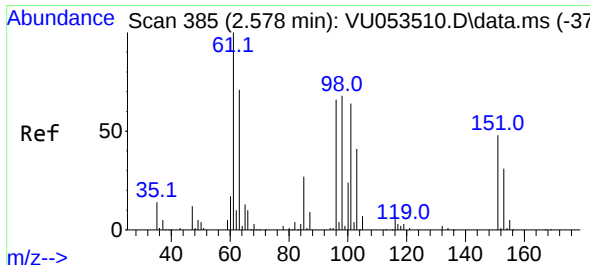
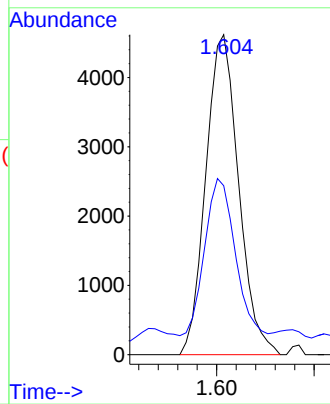
PMW-3(20230331)

Tgt Ion: 62 Resp: 5399

Ion Ratio Lower Upper

62 100

64 52.8 23.2 43.0#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.665 ug/L

RT: 2.565 min Scan# 381

Delta R.T. -0.013 min

Lab File: VU053548.D

Acq: 04 Apr 2023 03:06

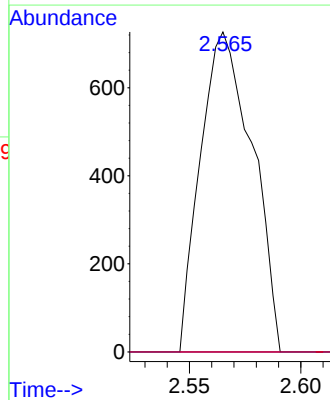
Tgt Ion:101 Resp: 1176

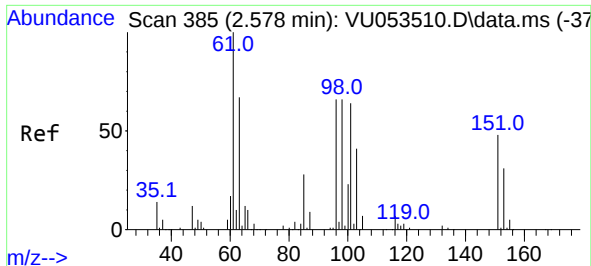
Ion Ratio Lower Upper

101 100

85 384.4 32.6 48.8#

151 0.0 65.8 98.6#





#12

1,1-Dichloroethene

Concen: 1.198 ug/L

RT: 2.568 min Scan# 385

Delta R.T. -0.010 min

Lab File: VU053548.D

Acq: 04 Apr 2023 03:06

Instrument :

MSVOA_U

ClientSampleId :

PMW-3(20230331)

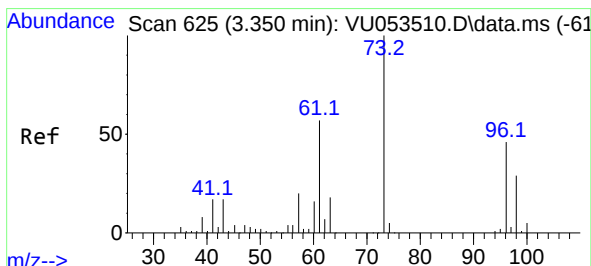
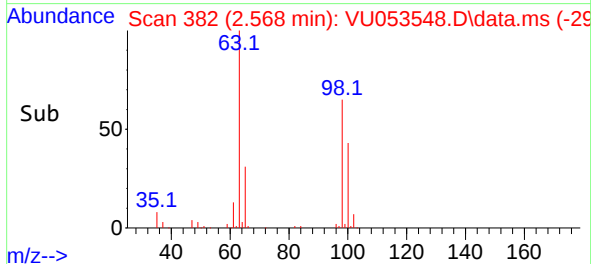
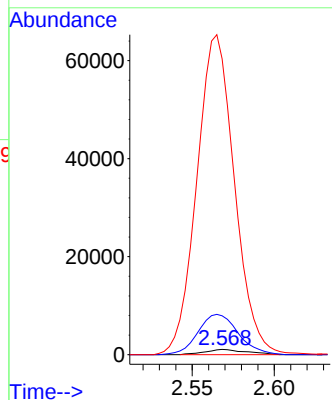
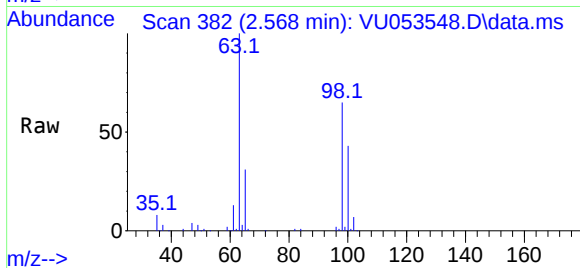
Tgt Ion: 96 Resp: 1887

Ion Ratio Lower Upper

96 100

61 733.9 107.9 200.5#

63 5588.1 79.1 146.9#



#17

trans-1,2-Dichloroethene

Concen: 1.492 ug/L

RT: 3.353 min Scan# 626

Delta R.T. 0.003 min

Lab File: VU053548.D

Acq: 04 Apr 2023 03:06

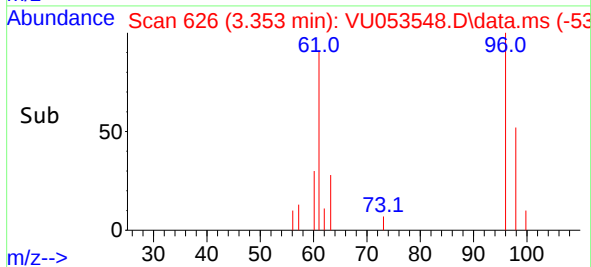
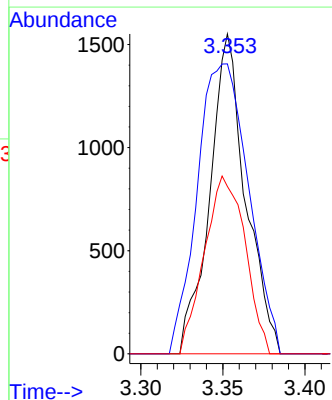
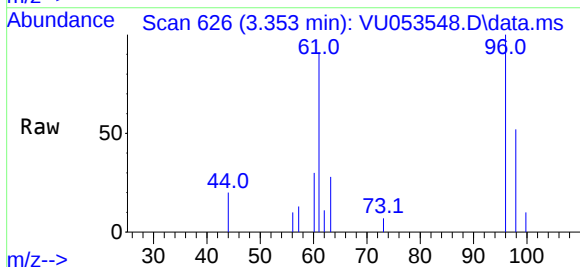
Tgt Ion: 96 Resp: 2361

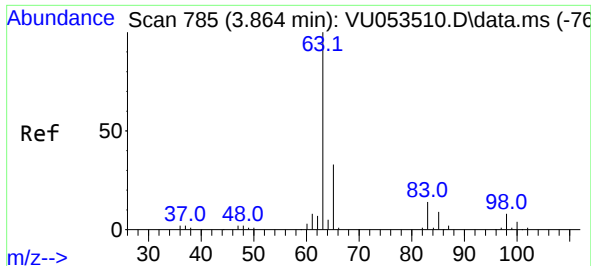
Ion Ratio Lower Upper

96 100

61 90.7 84.4 156.8

98 52.4 46.0 85.4

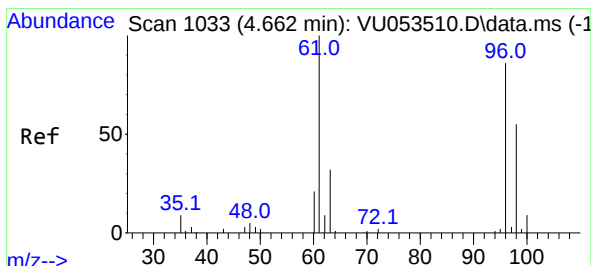
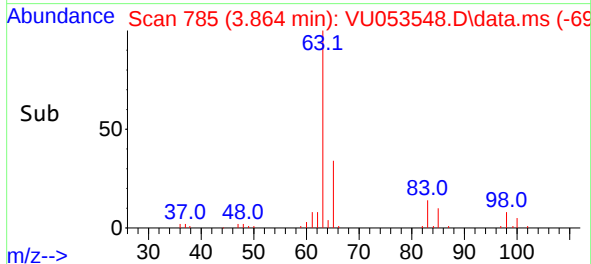
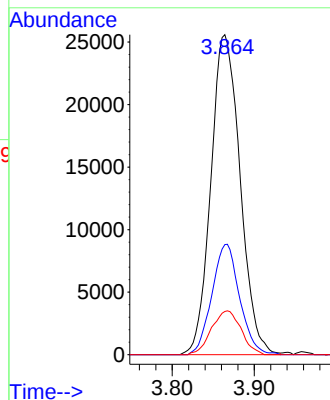
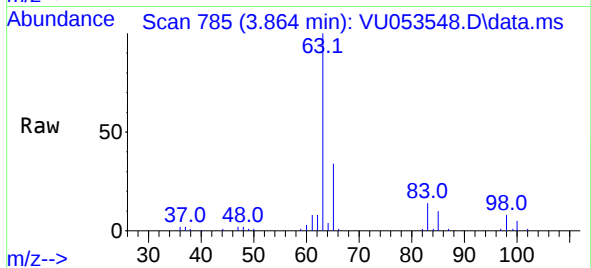




#19
1,1-Dichloroethane
Concen: 24.213 ug/L
RT: 3.864 min Scan# 785
Delta R.T. -0.000 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

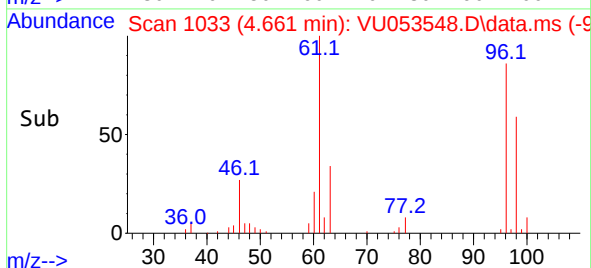
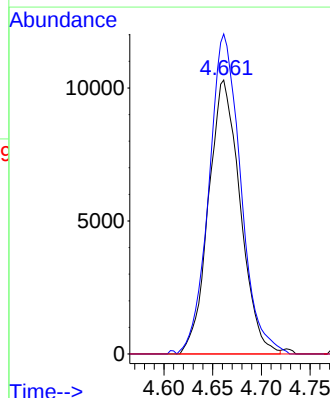
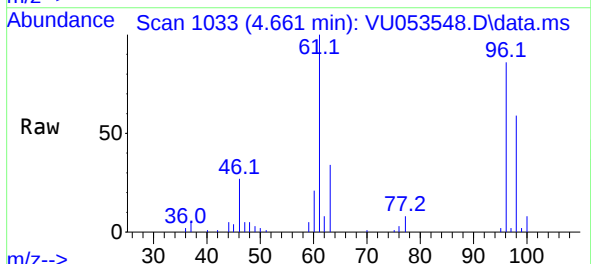
Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)

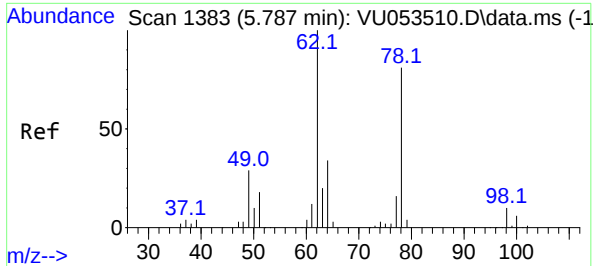
Tgt Ion:	63	Resp:	63491
Ion	Ratio	Lower	Upper
63	100		
65	34.4	22.0	41.0
83	13.5	10.8	20.0



#20
cis-1,2-Dichloroethene
Concen: 12.747 ug/L
RT: 4.661 min Scan# 1033
Delta R.T. -0.000 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Tgt Ion:	96	Resp:	23306
Ion	Ratio	Lower	Upper
96	100		
61	116.9	74.7	138.7
68	0.0	0.0	0.0

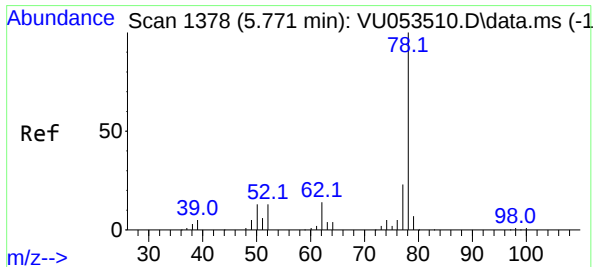
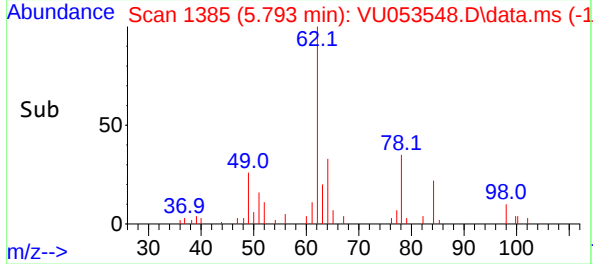
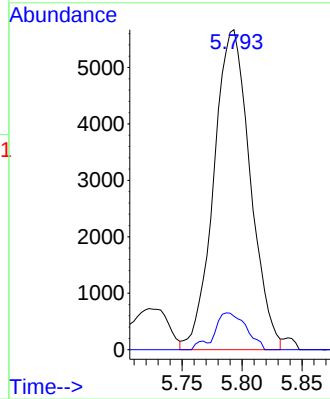
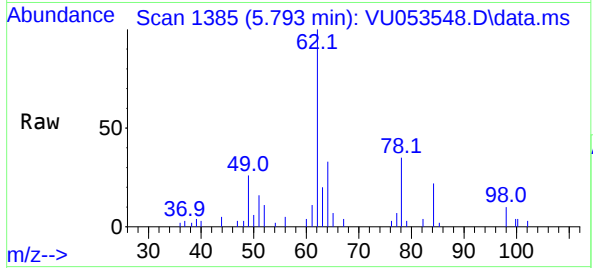




#27
1,2-Dichloroethane
Concen: 5.441 ug/L
RT: 5.793 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

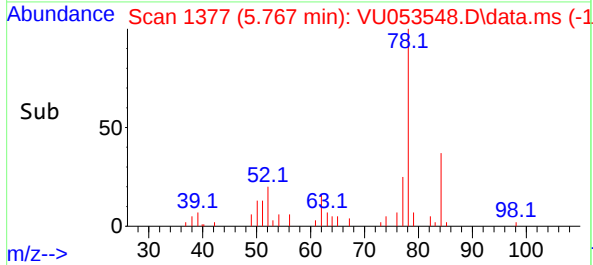
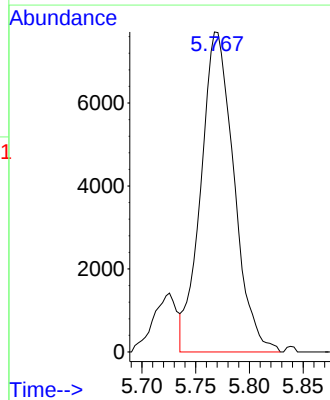
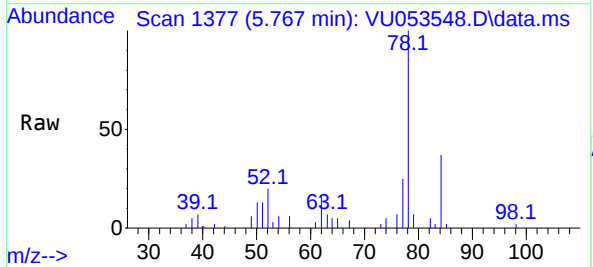
Instrument :
MSVOA_U
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PMW-3(20230331)

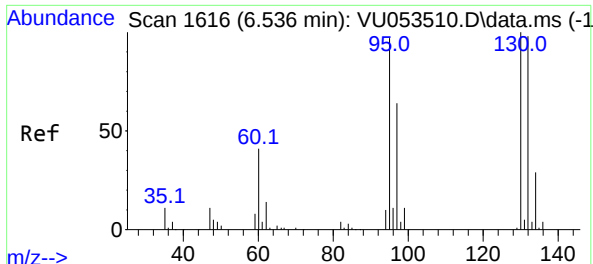
Tgt Ion: 62 Resp: 11985
Ion Ratio Lower Upper
62 100
98 10.4 8.3 12.5



#33
Benzene
Concen: 2.623 ug/L
RT: 5.767 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

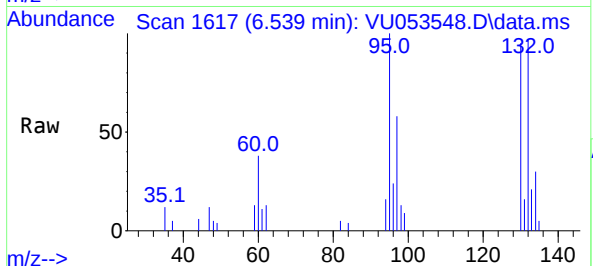
Tgt Ion: 78 Resp: 16497





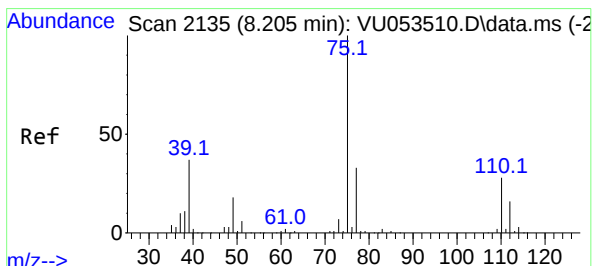
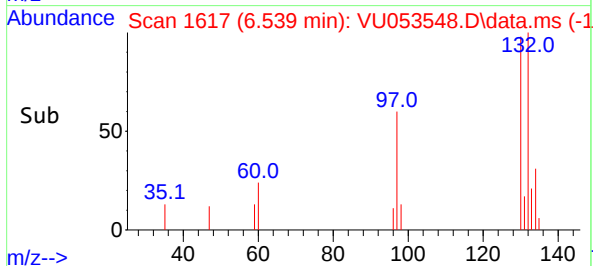
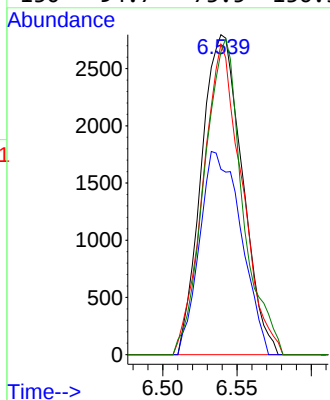
#34
Trichloroethene
Concen: 2.811 ug/L
RT: 6.539 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)



Tgt Ion: 95 Resp: 5346

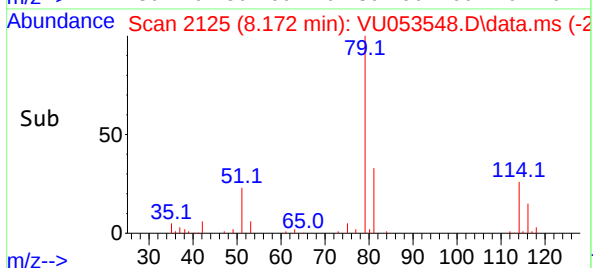
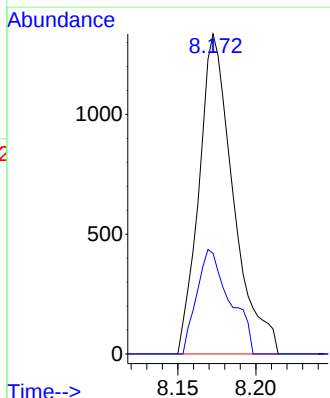
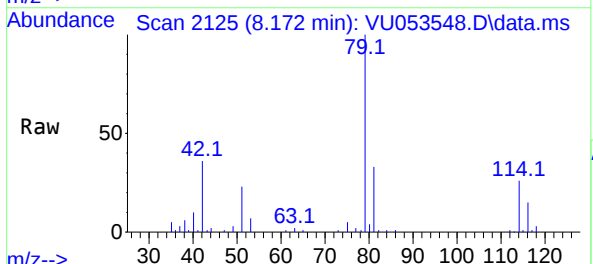
Ion	Ratio	Lower	Upper
95	100		
97	58.0	45.1	83.7
132	97.0	74.1	137.5
130	94.7	73.5	136.5

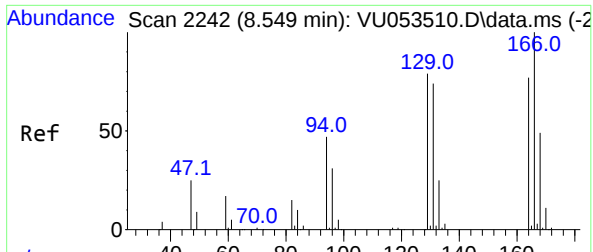


#44
trans-1,3-Dichloropropene
Concen: 0.826 ug/L
RT: 8.172 min Scan# 2125
Delta R.T. -0.032 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Tgt Ion: 75 Resp: 2037

Ion	Ratio	Lower	Upper
75	100		
77	31.4	21.8	40.4



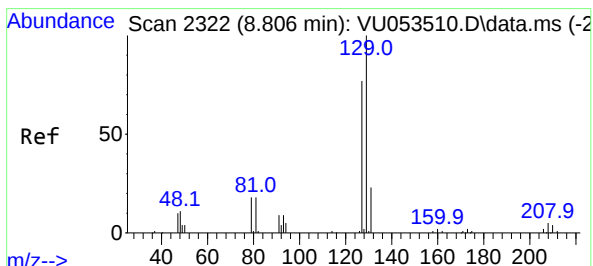
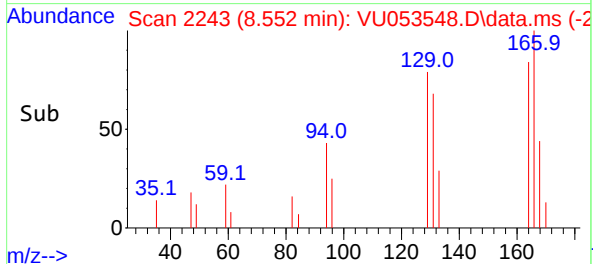
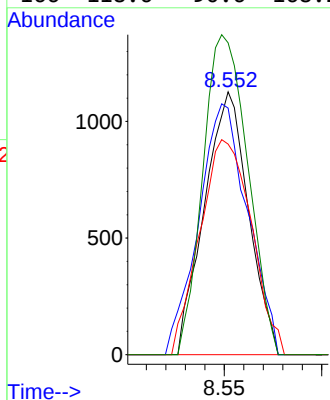
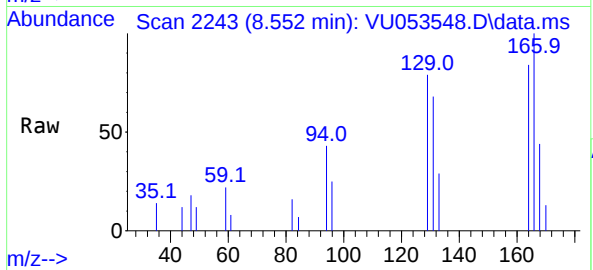


#46
Tetrachloroethene
Concen: 1.118 ug/L
RT: 8.552 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)

Tgt Ion:164 Resp: 1764

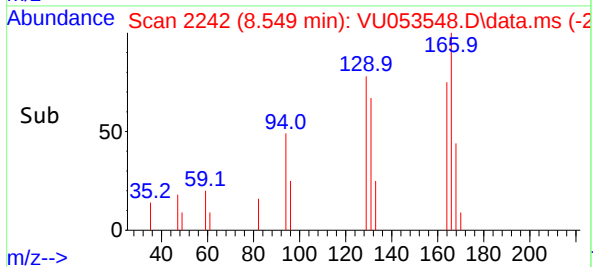
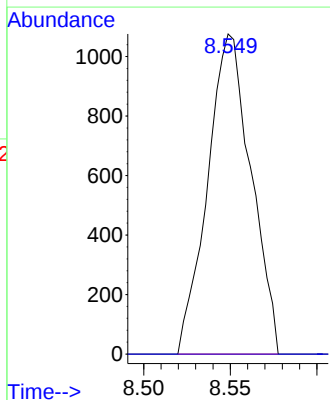
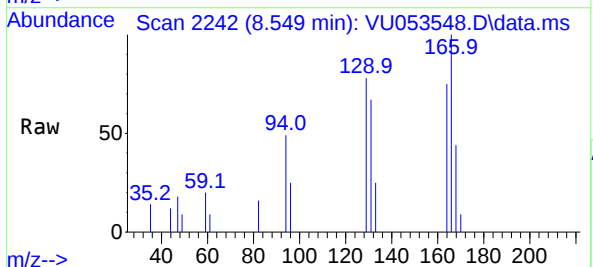
Ion	Ratio	Lower	Upper
164	100		
129	93.8	64.0	119.0
131	80.1	61.9	115.1
166	118.6	90.6	168.2

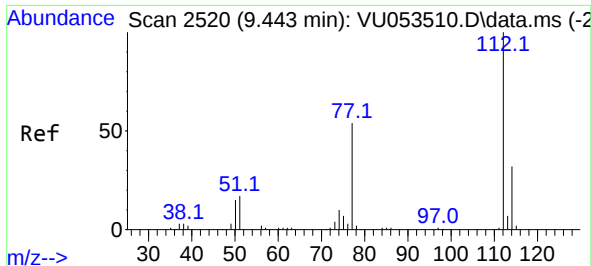


#49
Dibromochloromethane
Concen: 1.032 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.254 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Tgt Ion:129 Resp: 1881

Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.5	99.3#





#51

Chlorobenzene

Concen: 3.977 ug/L

RT: 9.443 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU053548.D

Acq: 04 Apr 2023 03:06

Instrument :

MSVOA_U

ClientSampleId :

PMW-3(20230331)

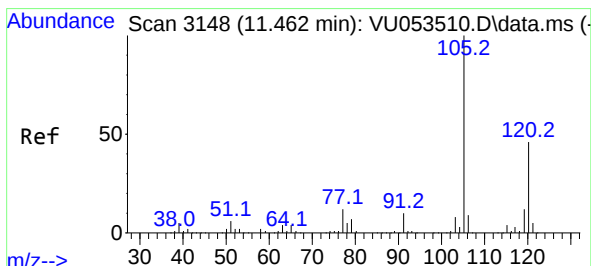
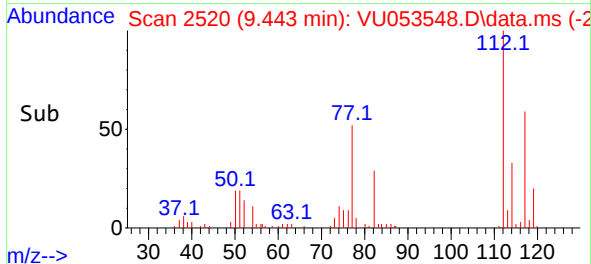
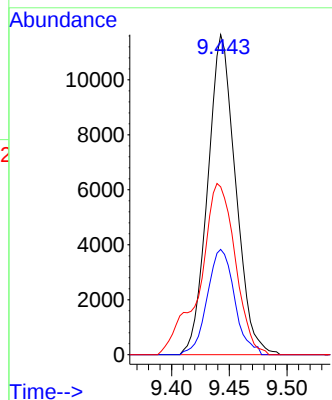
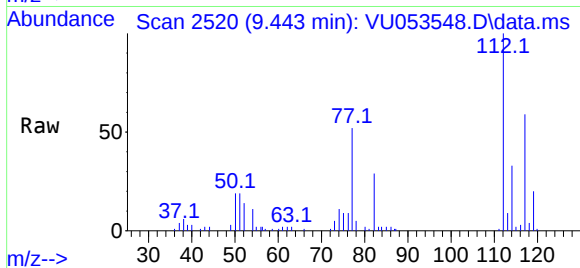
Tgt Ion:112 Resp: 19529

Ion Ratio Lower Upper

112 100

114 32.9 22.2 41.2

77 52.4 41.3 61.9



#63

1,2,4-Trimethylbenzene

Concen: 1.066 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. 0.003 min

Lab File: VU053548.D

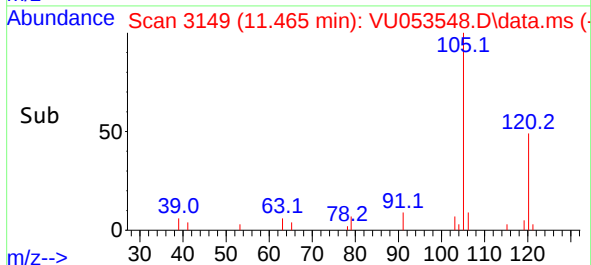
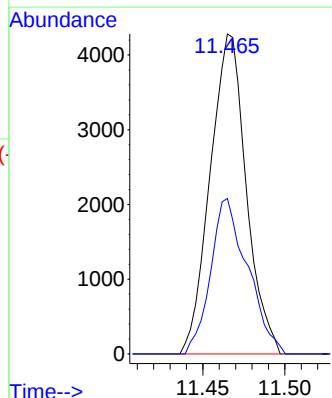
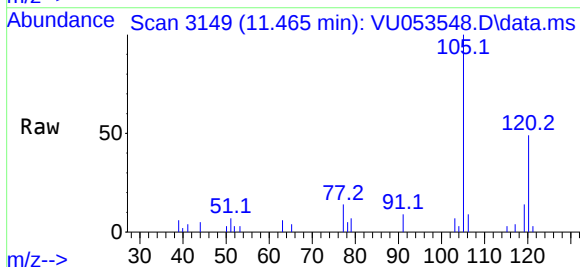
Acq: 04 Apr 2023 03:06

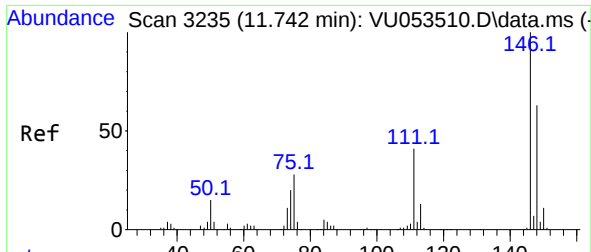
Tgt Ion:105 Resp: 6540

Ion Ratio Lower Upper

105 100

120 49.8 37.5 56.3

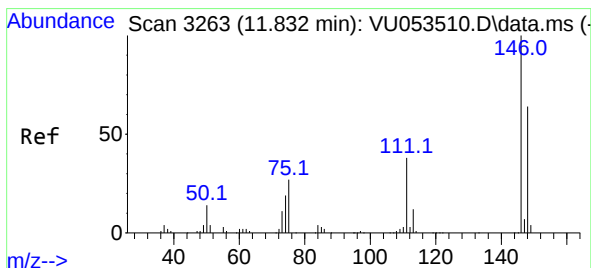
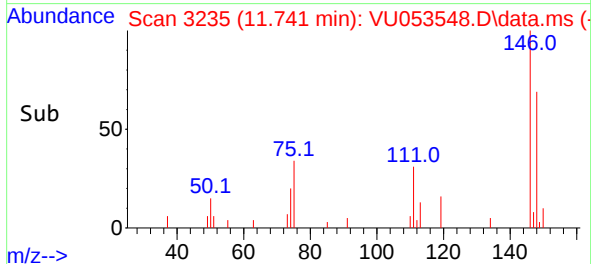
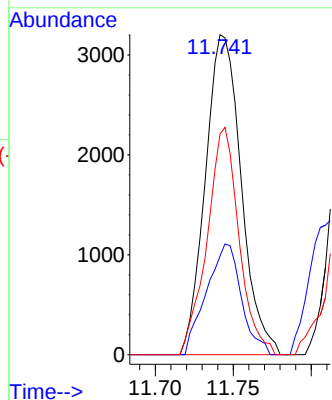
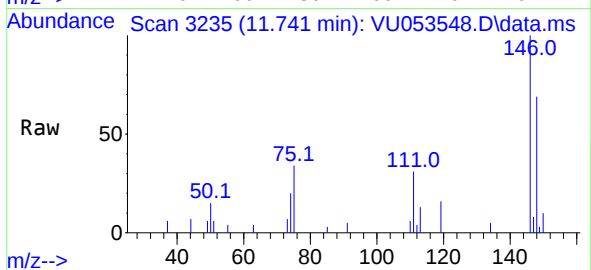




#64
1,3-Dichlorobenzene
Concen: 1.316 ug/L
RT: 11.741 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

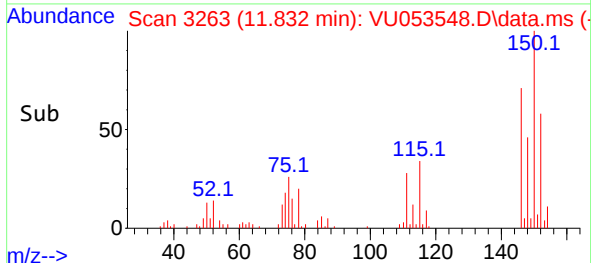
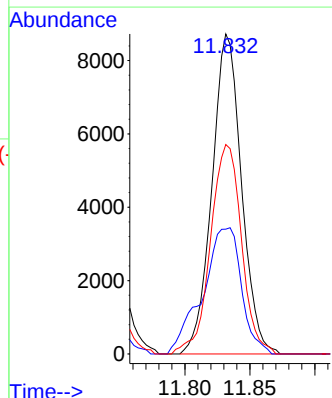
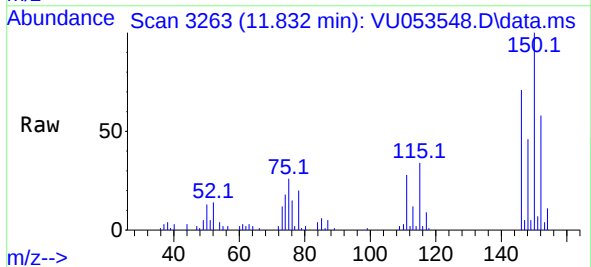
Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)

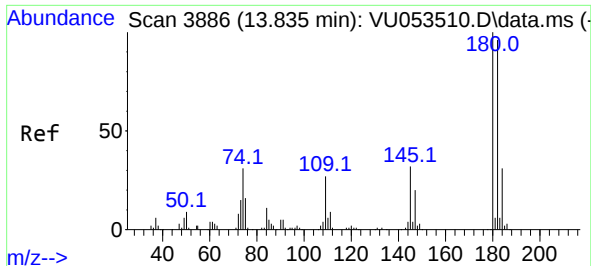
Tgt Ion:146 Resp: 5122
Ion Ratio Lower Upper
146 100
111 30.9 25.7 47.7
148 72.1 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 3.470 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. -0.000 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Tgt Ion:146 Resp: 13767
Ion Ratio Lower Upper
146 100
111 39.0 25.1 46.5
148 65.5 44.3 82.3

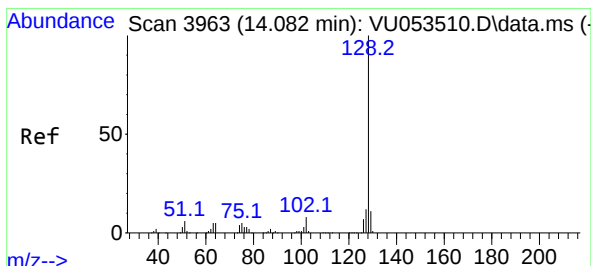
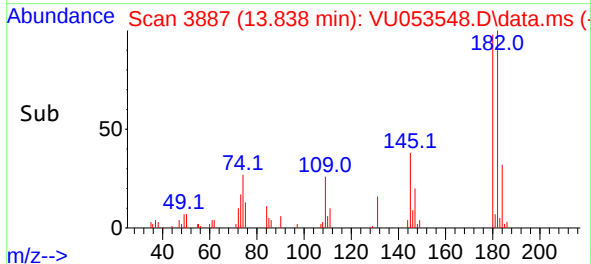
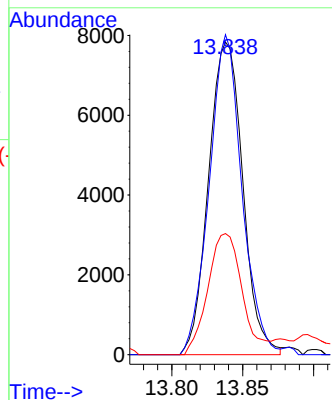
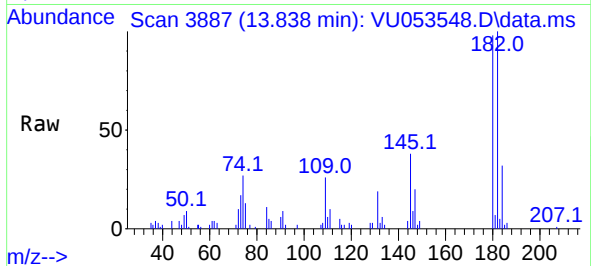




#70
1,2,4-trichlorobenzene
Concen: 4.922 ug/L
RT: 13.838 min Scan# 3886
Delta R.T. 0.003 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20230331)

Tgt Ion:180 Resp: 13154
Ion Ratio Lower Upper
180 100
182 97.7 75.8 113.8
145 39.2 23.4 35.2#



#71
Naphthalene
Concen: 3.979 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. 0.003 min
Lab File: VU053548.D
Acq: 04 Apr 2023 03:06

Tgt Ion:128 Resp: 31833
Ion Ratio Lower Upper
128 100
127 11.5 10.2 15.2
129 10.9 8.6 12.8

