

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053530.D
 Acq On : 03 Apr 2023 19:13
 Operator : JC/MD
 Sample : 02158-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-6(20230329)

Quant Time: Apr 04 05:19:15 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	268821	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	247304	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	132671	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	104541	49.943	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.880%
7) Chloroethane-d5	1.909	69	89383	55.383	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	110.760%
11) 1,1-Dichloroethene-d2	2.562	63	125774	38.817	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.640%
21) 2-Butanone-d5	4.613	46	116409	122.832	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.830%
24) Chloroform-d	5.057	84	169237	48.887	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.780%
26) 1,2-Dichloroethane-d4	5.697	65	110951	54.239	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.480%
32) Benzene-d6	5.723	84	349840	52.407	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.820%
36) 1,2-Dichloropropane-d6	6.684	67	109902	53.864	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.720%
41) Toluene-d8	7.893	98	330851	49.866	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.740%
43) trans-1,3-Dichloroprop...	8.173	79	56031	53.200	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.400%
47) 2-Hexanone-d5	8.626	63	92065	132.210	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	132.210%#
56) 1,1,2,2-Tetrachloroeth...	10.751	84	156187	54.311	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.620%
66) 1,2-Dichlorobenzene-d4	12.189	152	133957	48.372	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.740%
Target Compounds						Qvalue
5) Vinyl chloride	1.601	62	2758	1.327	ug/L #	1
12) 1,1-Dichloroethene	2.565	96	1226	0.743	ug/L #	1
20) cis-1,2-Dichloroethene	4.662	96	110944	57.941	ug/L	90
33) Benzene	5.774	78	17890	2.777	ug/L	100
34) Trichloroethene	6.539	95	20728	10.636	ug/L	96
39) cis-1,3-Dichloropropene	7.559	75	3711	1.388	ug/L	92
42) Toluene	7.967	91	375729	51.456	ug/L	98
44) trans-1,3-Dichloropropene	8.179	75	2483	0.982	ug/L	98
46) Tetrachloroethene	8.549	164	93864	58.042	ug/L	96
51) Chlorobenzene	9.443	112	1125908	223.793	ug/L	96
52) Ethylbenzene	9.568	91	18077	2.224	ug/L	96
53) m,p-Xylene	9.687	106	27083	8.519	ug/L	96
54) o-xylene	10.099	106	7120	2.265	ug/L	88
63) 1,2,4-Trimethylbenzene	11.465	105	13190	2.042	ug/L	99
64) 1,3-Dichlorobenzene	11.742	146	294753	71.915	ug/L	96
65) 1,4-Dichlorobenzene	11.832	146	800700	191.680	ug/L	96
67) 1,2-Dichlorobenzene	12.208	146	111422	27.277	ug/L	97
69) 1,3,5-Trichlorobenzene	13.835	180	1259042	414.822	ug/L	98
70) 1,2,4-trichlorobenzene	13.835	180	1259042	447.422	ug/L	98

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

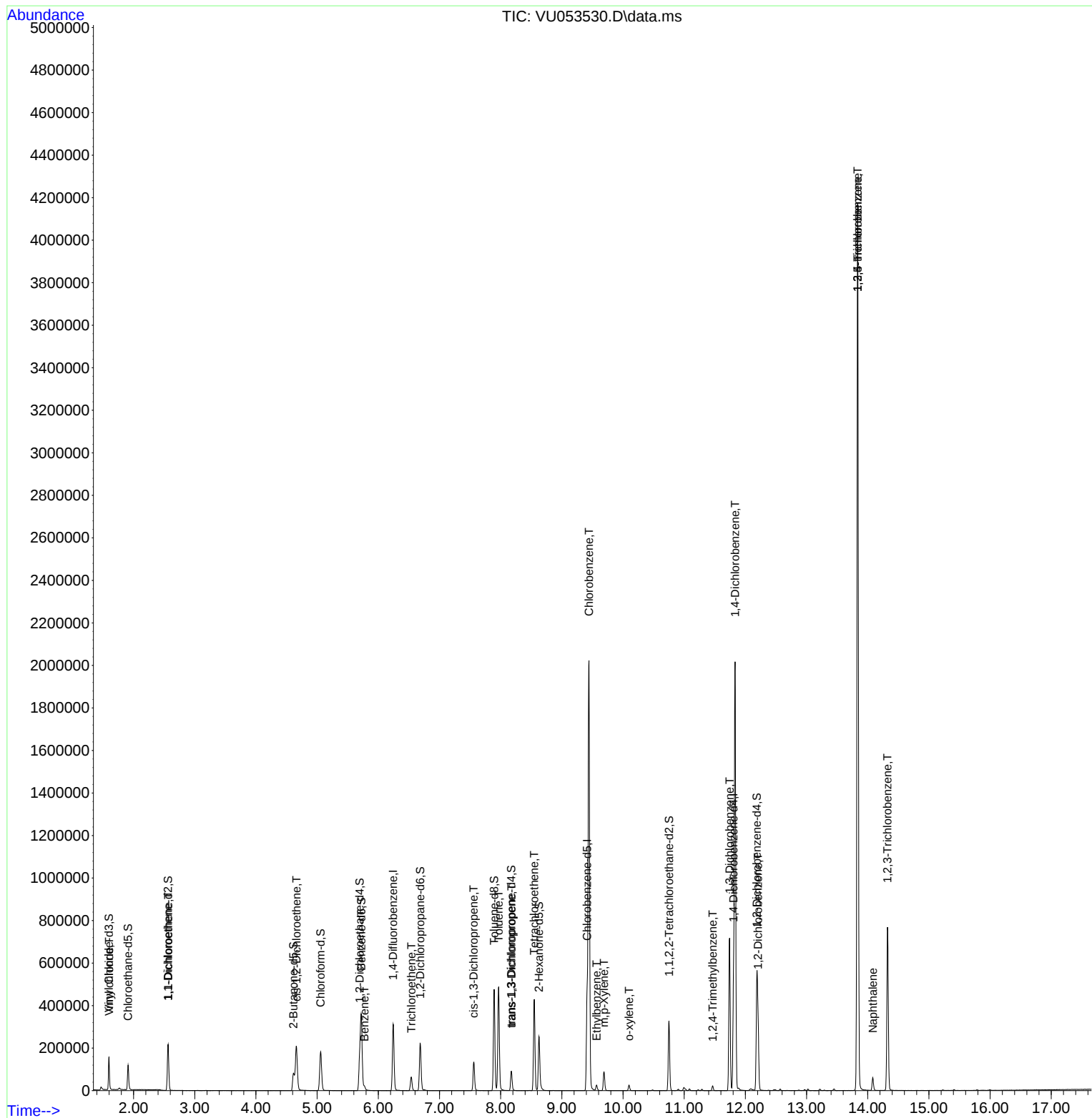
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) Naphthalene	14.082	128	49209	5.842	ug/L	98
72) 1,2,3-Trichlorobenzene	14.324	180	234635	83.480	ug/L	98

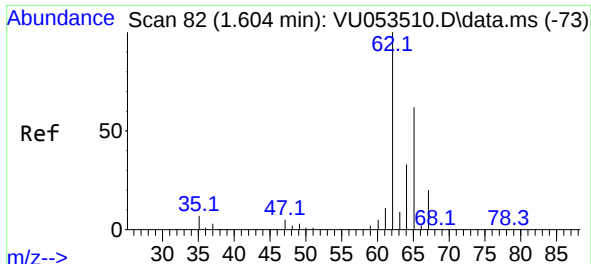
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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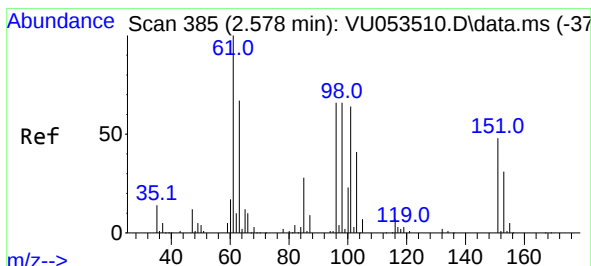
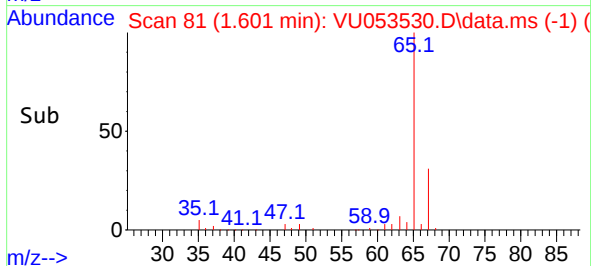
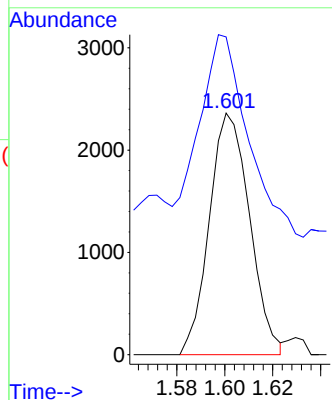
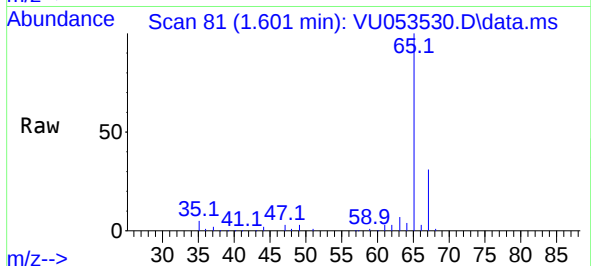




#5
Vinyl chloride
Concen: 1.327 ug/L
RT: 1.601 min Scan# 81
Delta R.T. -0.003 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

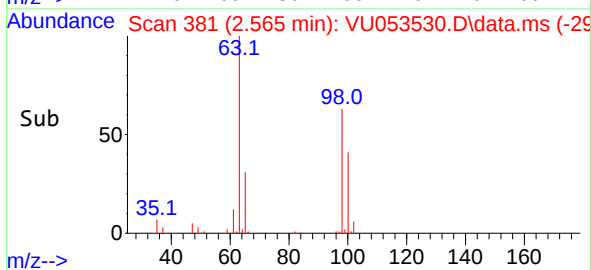
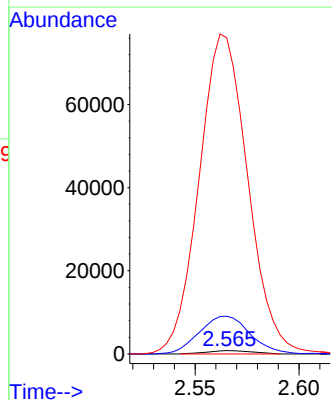
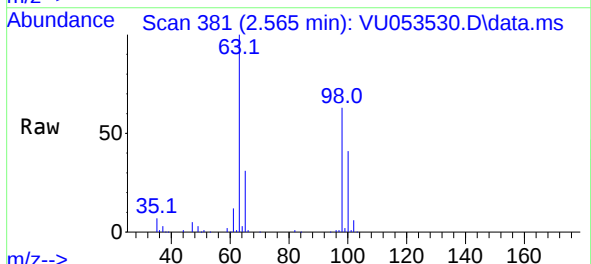
Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

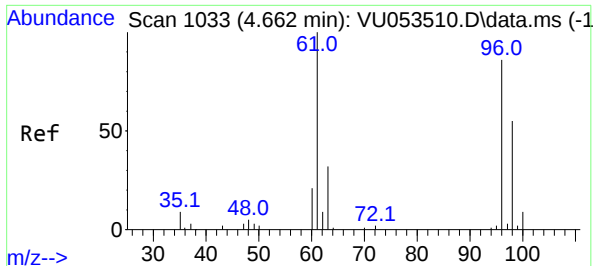
Tgt Ion: 62 Resp: 2758
Ion Ratio Lower Upper
62 100
64 131.5 23.2 43.0#



#12
1,1-Dichloroethene
Concen: 0.743 ug/L
RT: 2.565 min Scan# 381
Delta R.T. -0.013 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion: 96 Resp: 1226
Ion Ratio Lower Upper
96 100
61 1117.5 107.9 200.5#
63 9377.1 79.1 146.9#

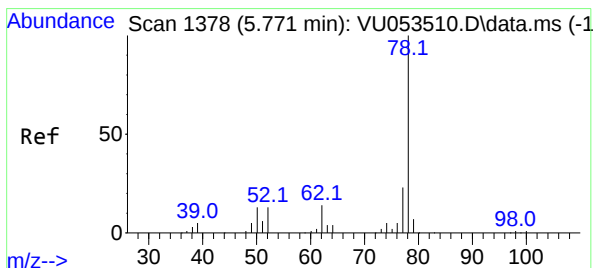
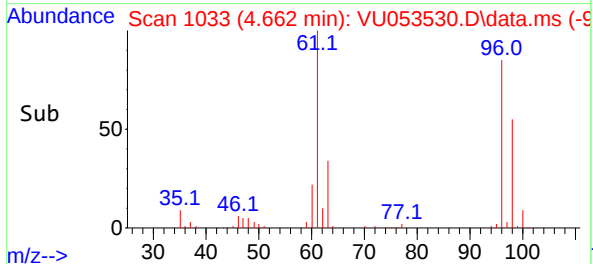
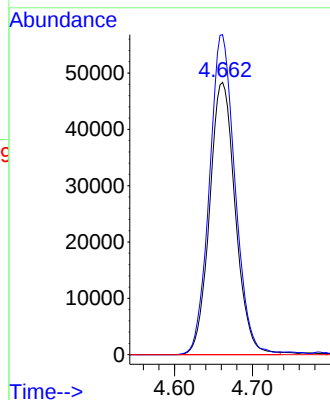
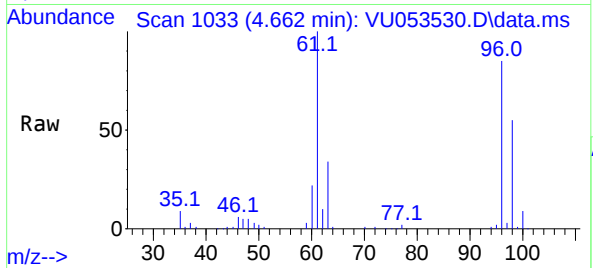




#20
cis-1,2-Dichloroethene
Concen: 57.941 ug/L
RT: 4.662 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

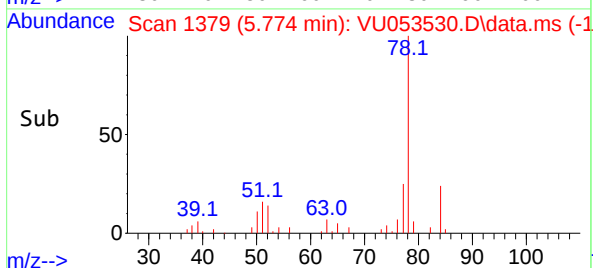
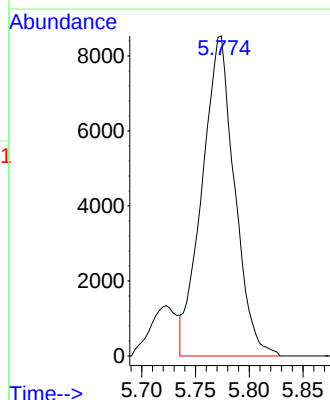
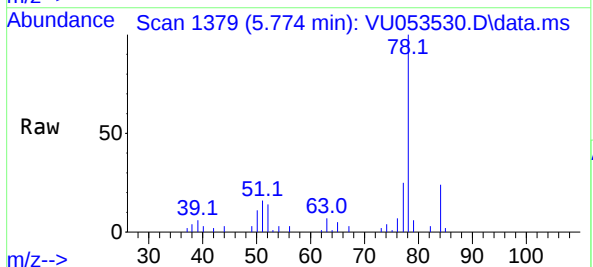
Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

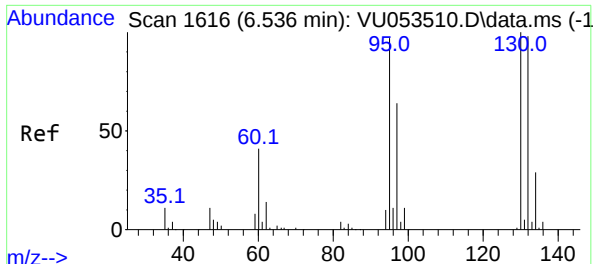
Tgt Ion: 96 Resp: 110944
Ion Ratio Lower Upper
96 100
61 117.5 74.7 138.7
68 0.0 0.0 0.0



#33
Benzene
Concen: 2.777 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. 0.007 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

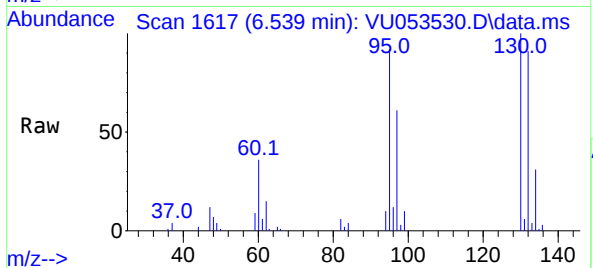
Tgt Ion: 78 Resp: 17890



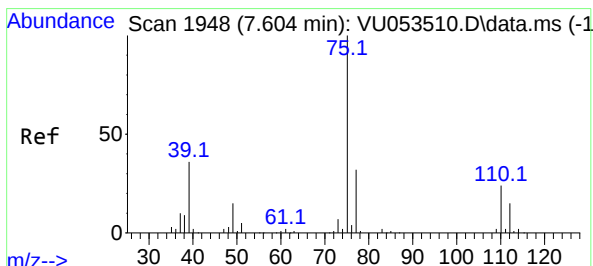
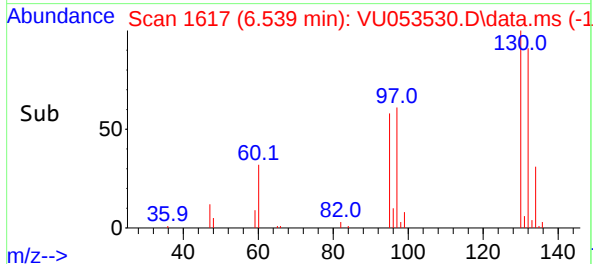
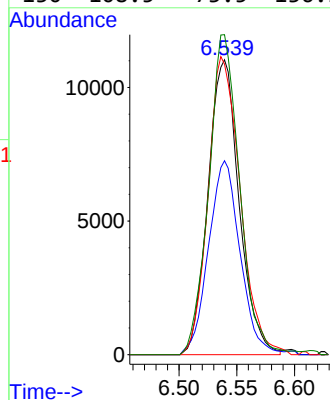


#34
Trichloroethene
Concen: 10.636 ug/L
RT: 6.539 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

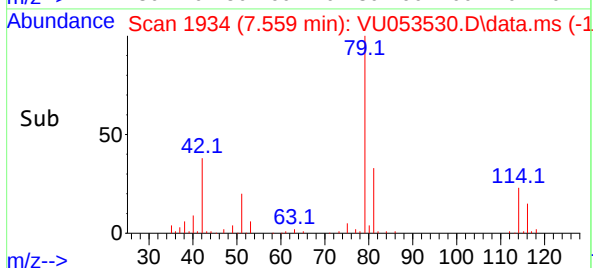
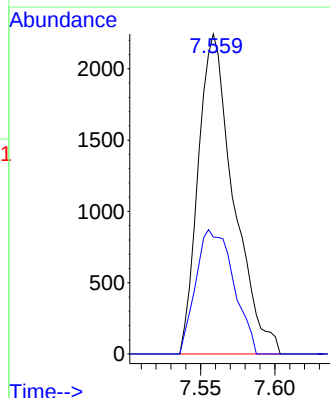
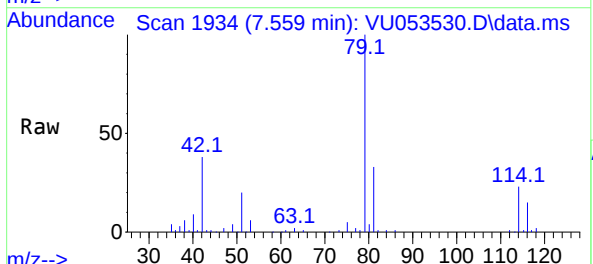


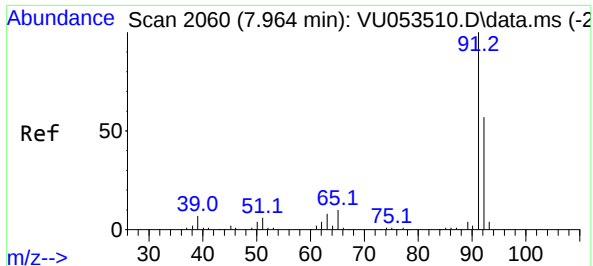
Tgt Ion: 95 Resp: 20728
Ion Ratio Lower Upper
95 100
97 65.8 45.1 83.7
132 98.6 74.1 137.5
130 108.5 73.5 136.5



#39
cis-1,3-Dichloropropene
Concen: 1.388 ug/L
RT: 7.559 min Scan# 1934
Delta R.T. -0.042 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion: 75 Resp: 3711
Ion Ratio Lower Upper
75 100
77 36.6 22.5 41.7





#42

Toluene

Concen: 51.456 ug/L

RT: 7.967 min Scan# 2060

Delta R.T. 0.003 min

Lab File: VU053530.D

Acq: 03 Apr 2023 19:13

Instrument :

MSVOA_U

ClientSampleId :

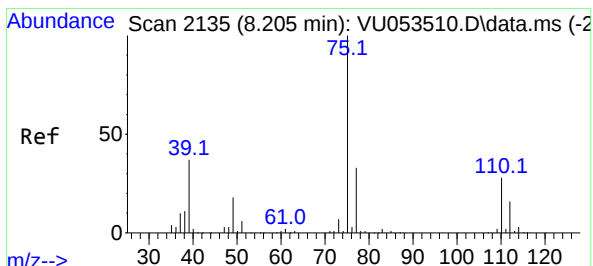
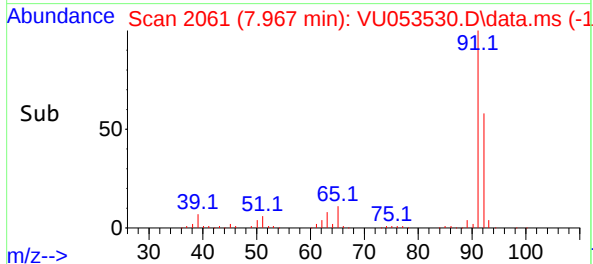
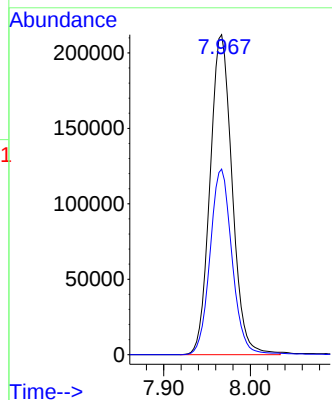
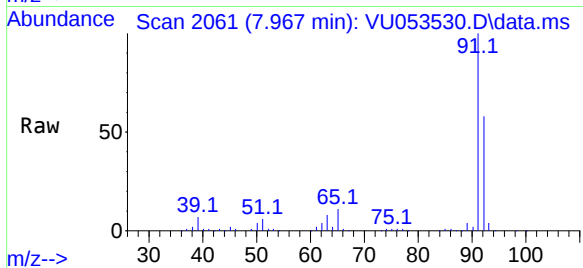
PMW-6(20230329)

Tgt Ion: 91 Resp: 375729

Ion Ratio Lower Upper

91 100

92 58.0 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 0.982 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.026 min

Lab File: VU053530.D

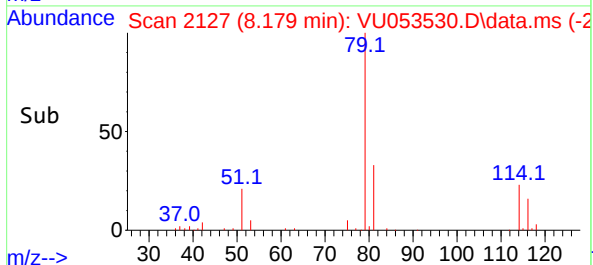
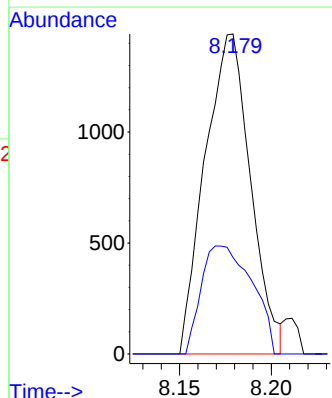
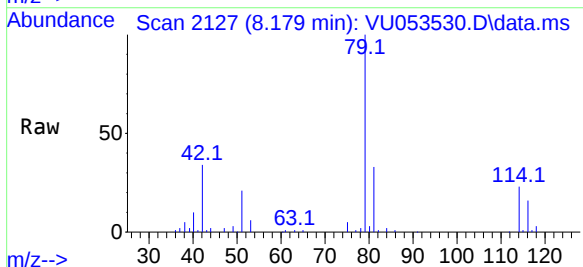
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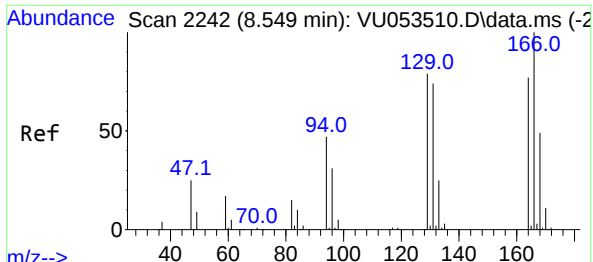
Tgt Ion: 75 Resp: 2483

Ion Ratio Lower Upper

75 100

77 30.2 21.8 40.4



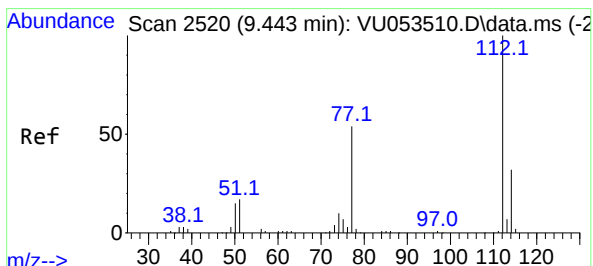
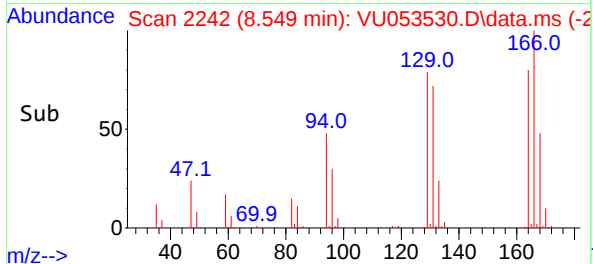
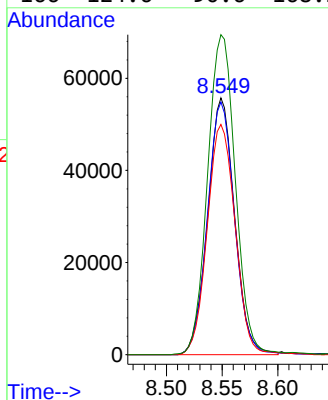
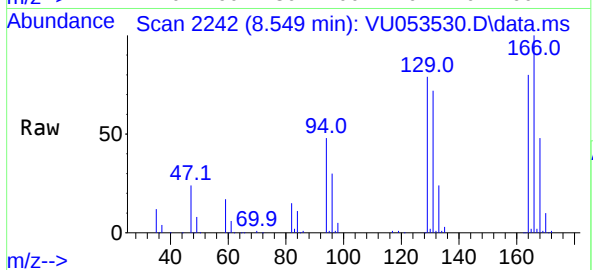


#46
Tetrachloroethene
Concen: 58.042 ug/L
RT: 8.549 min Scan# 211
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Instrument :
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ClientSampleId :
PMW-6(20230329)

Tgt Ion:164 Resp: 93864

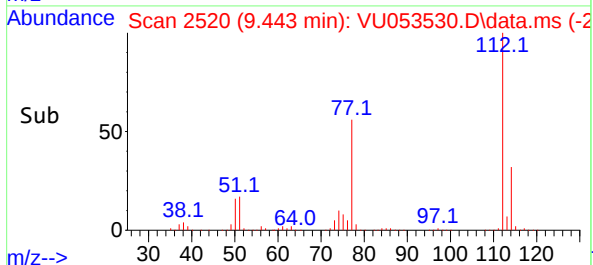
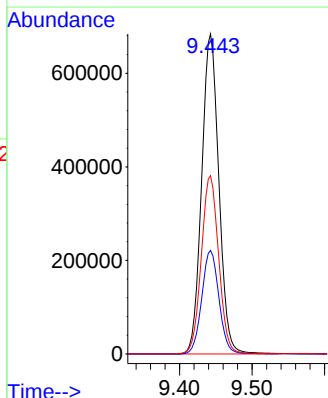
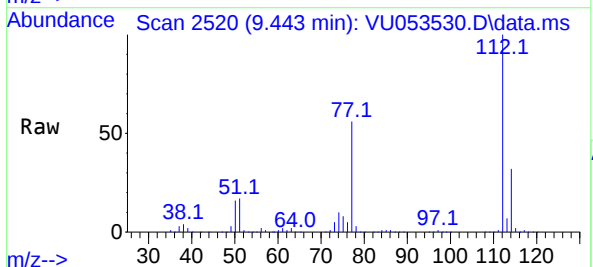
Ion	Ratio	Lower	Upper
164	100		
129	98.3	64.0	119.0
131	89.7	61.9	115.1
166	124.6	90.6	168.2

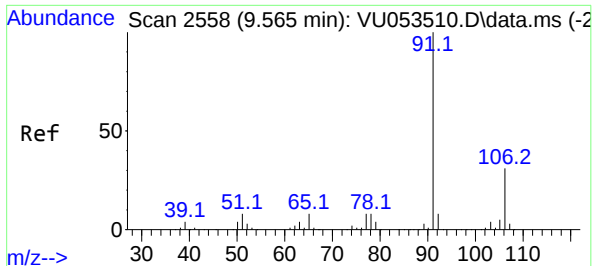


#51
Chlorobenzene
Concen: 223.793 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion:112 Resp: 1125908

Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.2	41.2
77	55.7	41.3	61.9

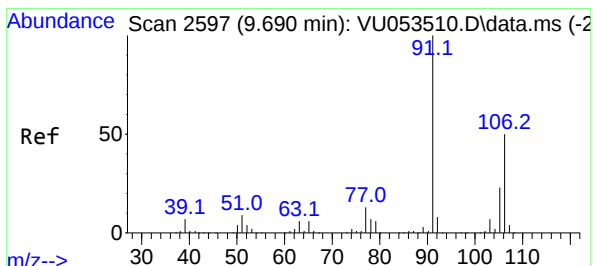
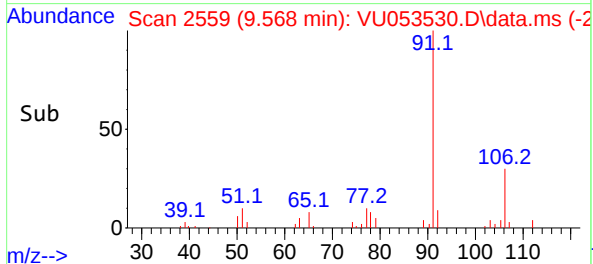
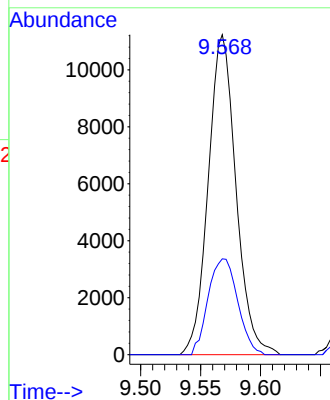
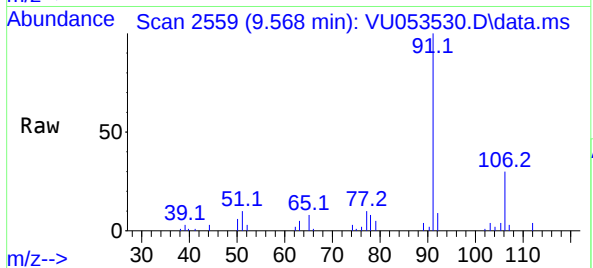




#52
Ethylbenzene
Concen: 2.224 ug/L
RT: 9.568 min Scan# 2558
Delta R.T. 0.003 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

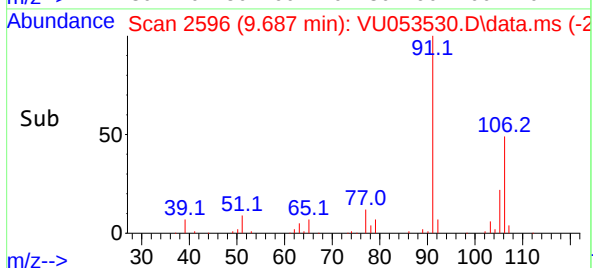
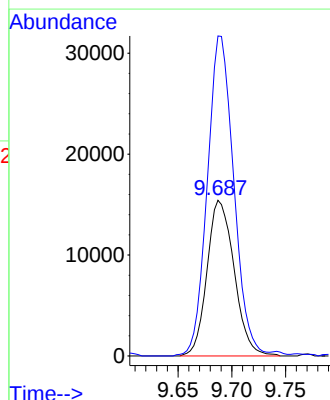
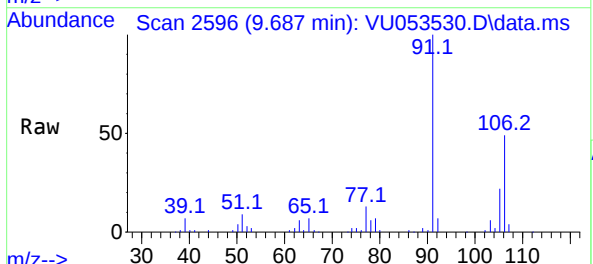
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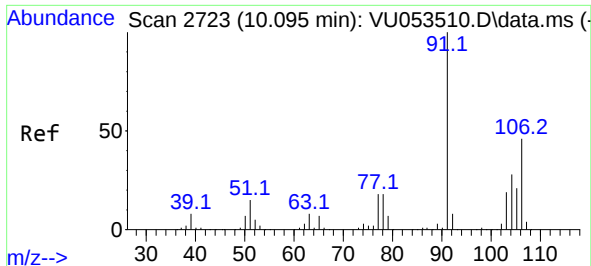
Tgt Ion: 91 Resp: 18077
Ion Ratio Lower Upper
91 100
106 30.0 22.4 41.6



#53
m,p-Xylene
Concen: 8.519 ug/L
RT: 9.687 min Scan# 2596
Delta R.T. -0.003 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion: 106 Resp: 27083
Ion Ratio Lower Upper
106 100
91 205.6 140.0 260.0

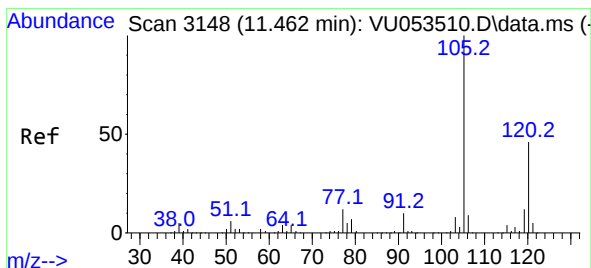
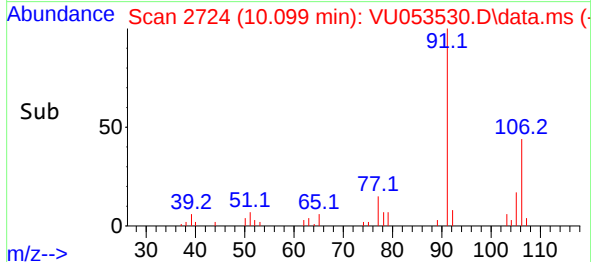
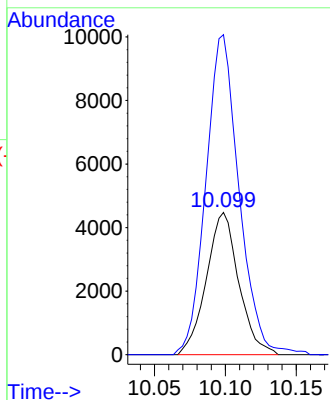
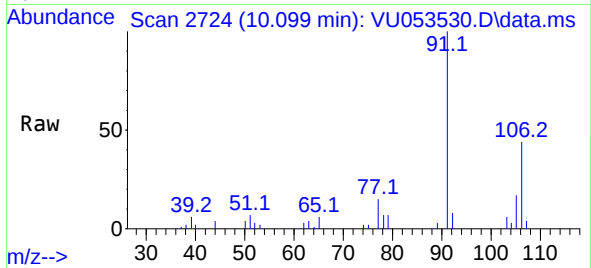




#54
o-xylene
Concen: 2.265 ug/L
RT: 10.099 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

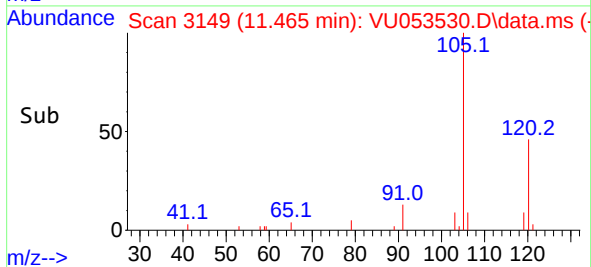
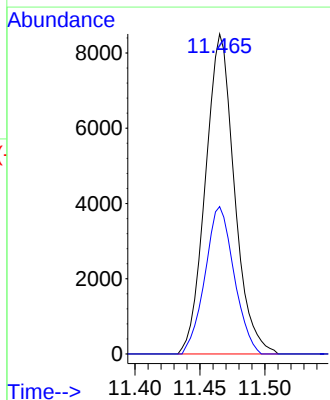
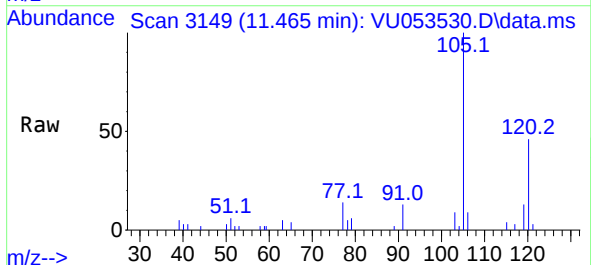
Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

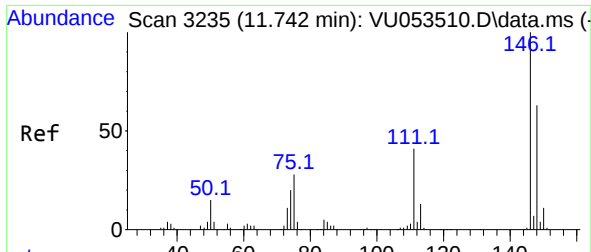
Tgt Ion:106 Resp: 7120
Ion Ratio Lower Upper
106 100
91 224.9 144.9 269.1



#63
1,2,4-Trimethylbenzene
Concen: 2.042 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. 0.003 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion:105 Resp: 13190
Ion Ratio Lower Upper
105 100
120 46.1 37.5 56.3

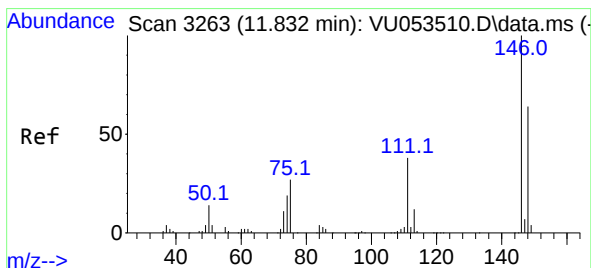
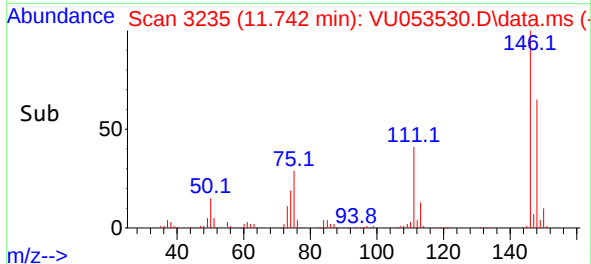
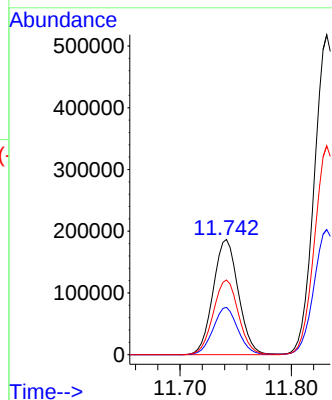
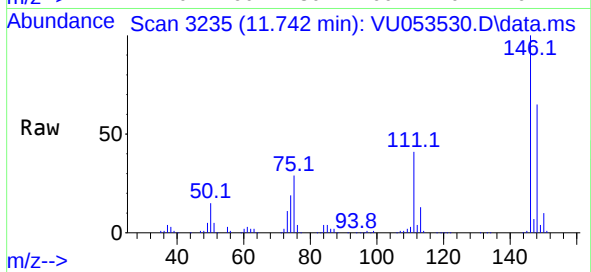




#64
1,3-Dichlorobenzene
Concen: 71.915 ug/L
RT: 11.742 min Scan# 311
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

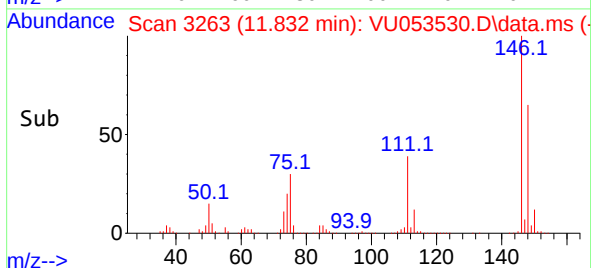
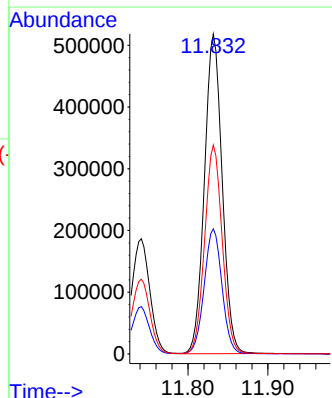
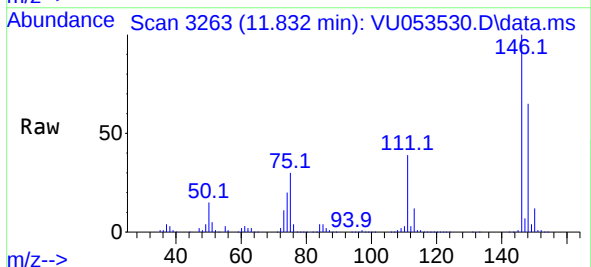
Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

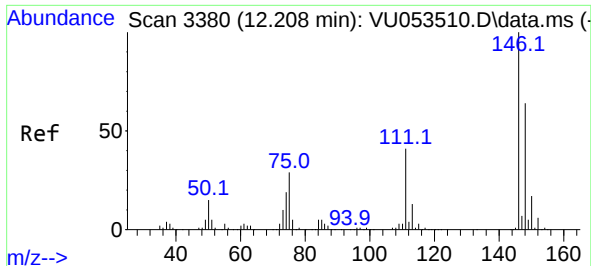
Tgt Ion:146 Resp: 294753
Ion Ratio Lower Upper
146 100
111 41.0 25.7 47.7
148 64.8 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 191.680 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion:146 Resp: 800700
Ion Ratio Lower Upper
146 100
111 39.1 25.1 46.5
148 65.3 44.3 82.3

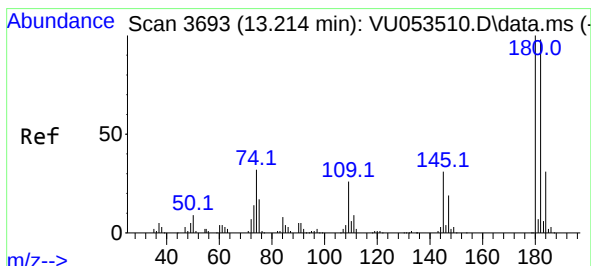
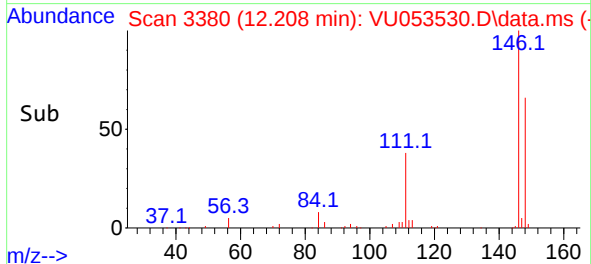
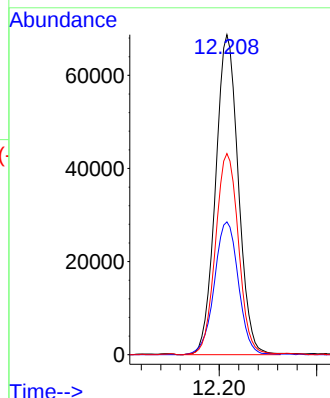
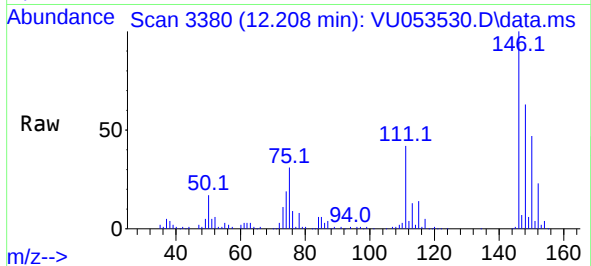




#67
1,2-Dichlorobenzene
Concen: 27.277 ug/L
RT: 12.208 min Scan# 311
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

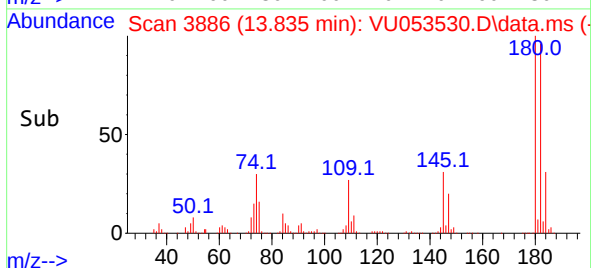
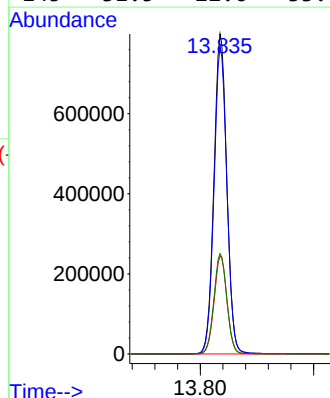
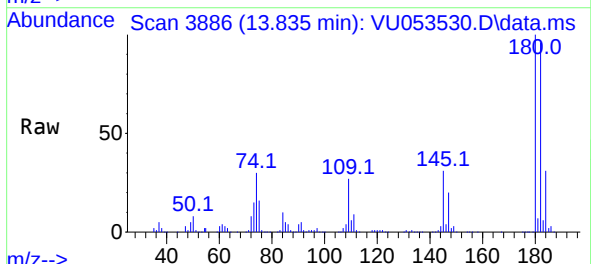
Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

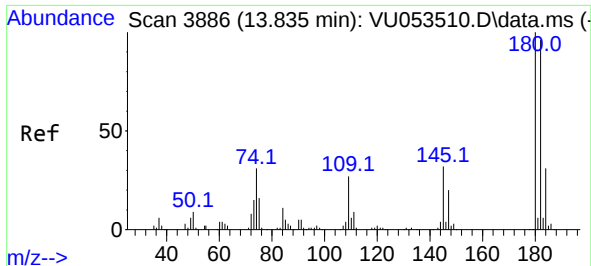
Tgt Ion:146 Resp: 111422
Ion Ratio Lower Upper
146 100
111 41.5 31.5 47.3
148 62.9 51.6 77.4



#69
1,3,5-Trichlorobenzene
Concen: 414.822 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. 0.621 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion:180 Resp: 1259042
Ion Ratio Lower Upper
180 100
182 96.2 75.6 113.4
184 30.7 24.2 36.2
145 31.5 22.6 33.8

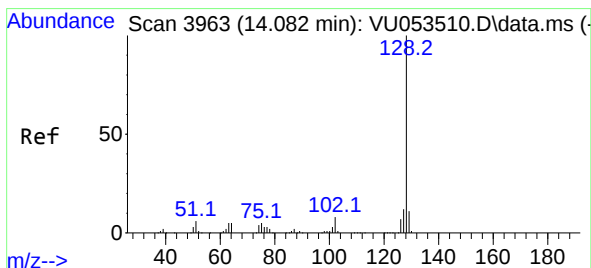
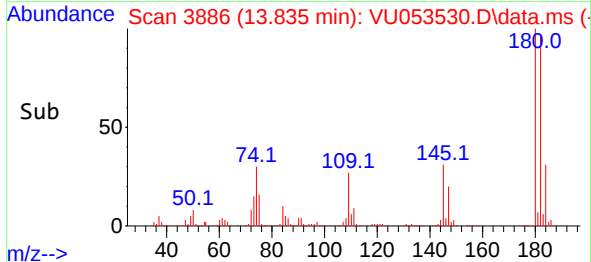
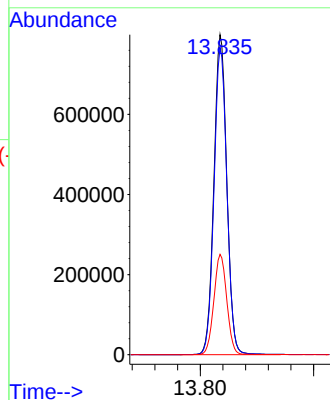
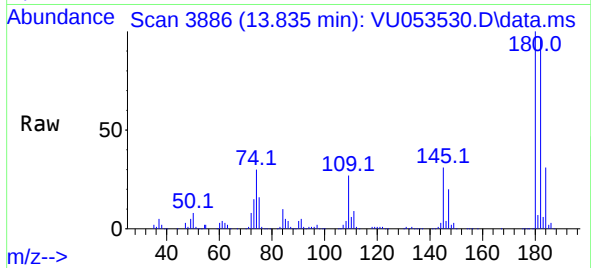




#70
1,2,4-trichlorobenzene
Concen: 447.422 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

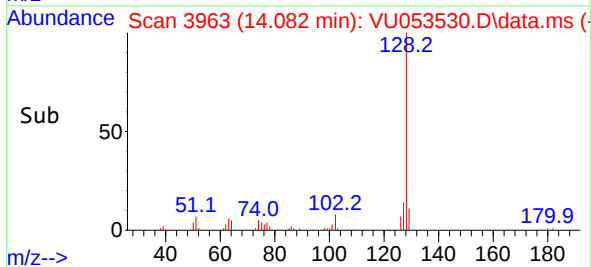
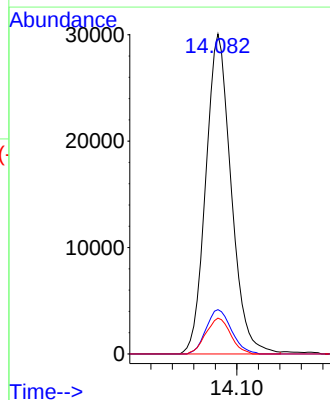
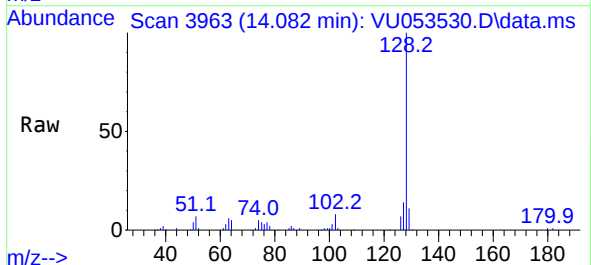
Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

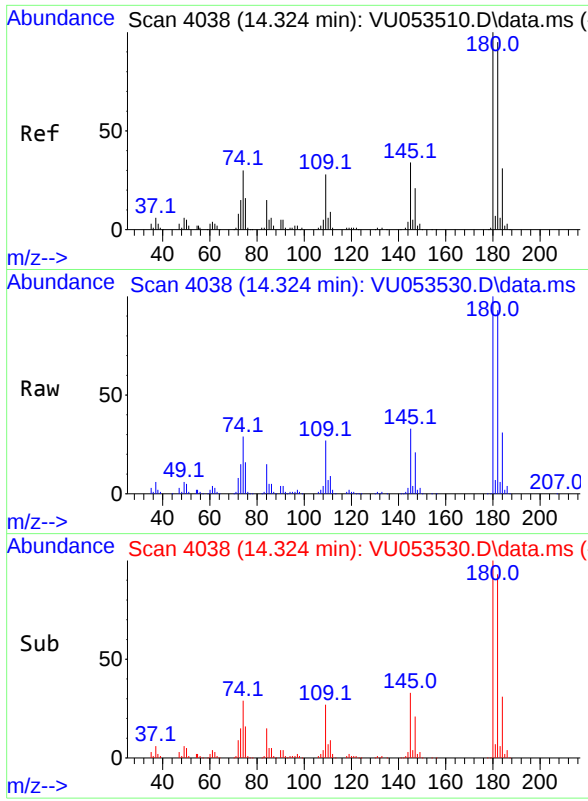
Tgt Ion:180 Resp: 1259042
Ion Ratio Lower Upper
180 100
182 96.2 75.8 113.8
145 31.5 23.4 35.2



#71
Naphthalene
Concen: 5.842 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. 0.003 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Tgt Ion:128 Resp: 49209
Ion Ratio Lower Upper
128 100
127 13.9 10.2 15.2
129 10.9 8.6 12.8





#72
1,2,3-Trichlorobenzene
Concen: 83.480 ug/L
RT: 14.324 min Scan# 40
Delta R.T. 0.000 min
Lab File: VU053530.D
Acq: 03 Apr 2023 19:13

Instrument :
MSVOA_U
ClientSampleId :
PMW-6(20230329)

Tgt Ion:180 Resp: 234635
Ion Ratio Lower Upper
180 100
182 94.7 77.0 115.6
145 33.0 25.4 38.0

