

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051923\
 Data File : VU054215.D
 Acq On : 19 May 2023 13:29
 Operator : JC/MD
 Sample : 02859-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C11G1

Quant Time: May 20 02:08:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051823WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 20 02:06:23 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	174150	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	167970	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	83257	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	45887	4.887	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.800%
7) Chloroethane-d5	1.912	69	36654	5.219	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.400%
11) 1,1-Dichloroethene-d2	2.562	65	21296	5.022	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.400%
20) 2-Butanone-d5	4.633	46	90186	53.863	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.720%
24) Chloroform-d	5.057	84	87038	4.931	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.600%
26) 1,2-Dichloroethane-d4	5.697	65	40963	5.044	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.800%
32) Benzene-d6	5.723	84	171366	5.010	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.200%
36) 1,2-Dichloropropane-d6	6.687	67	51128	5.171	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.400%
41) Toluene-d8	7.893	98	151026	4.676	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.600%
43) trans-1,3-Dichloroprop...	8.176	79	18809	4.710	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.200%
46) 2-Hexanone-d5	8.629	63	63744	53.611	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.220%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	36941	5.213	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.200%
66) 1,2-Dichlorobenzene-d4	12.189	152	56315	5.543	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	3083	0.253	ug/L	94
5) Vinyl chloride	1.604	62	1655	0.128	ug/L #	1
8) Chloroethane	1.935	64	1177	0.143	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	2270	0.190	ug/L #	70
12) 1,1-Dichloroethene	2.572	96	2033	0.191	ug/L #	1
15) Methyl Acetate	2.957	43	890	0.218	ug/L #	79
17) Methyl tert-butyl Ether	3.356	73	3417	0.127	ug/L #	88
18) trans-1,2-Dichloroethene	3.350	96	1435	0.132	ug/L	80
19) 1,1-Dichloroethane	3.867	63	3020	0.139	ug/L	92
22) cis-1,2-Dichloroethene	4.668	96	1588	0.125	ug/L	82
27) 1,2-Dichloroethane	5.793	62	1783	0.132	ug/L #	74
29) 1,1,1-Trichloroethane	5.311	97	2761	0.131	ug/L	90
33) Benzene	5.771	78	5961	0.125	ug/L	100
37) 1,2-Dichloropropane	6.787	63	1884	0.151	ug/L #	88
38) Bromodichloromethane	7.099	83	1847	0.117	ug/L #	95
39) cis-1,3-Dichloropropene	7.604	75	2555	0.137	ug/L	90
45) 1,1,2-Trichloroethane	8.398	97	1273	0.142	ug/L	91
48) 2-Hexanone	8.677	43	4177	0.869	ug/L #	90
49) Dibromochloromethane	8.809	129	1390	0.138	ug/L	96

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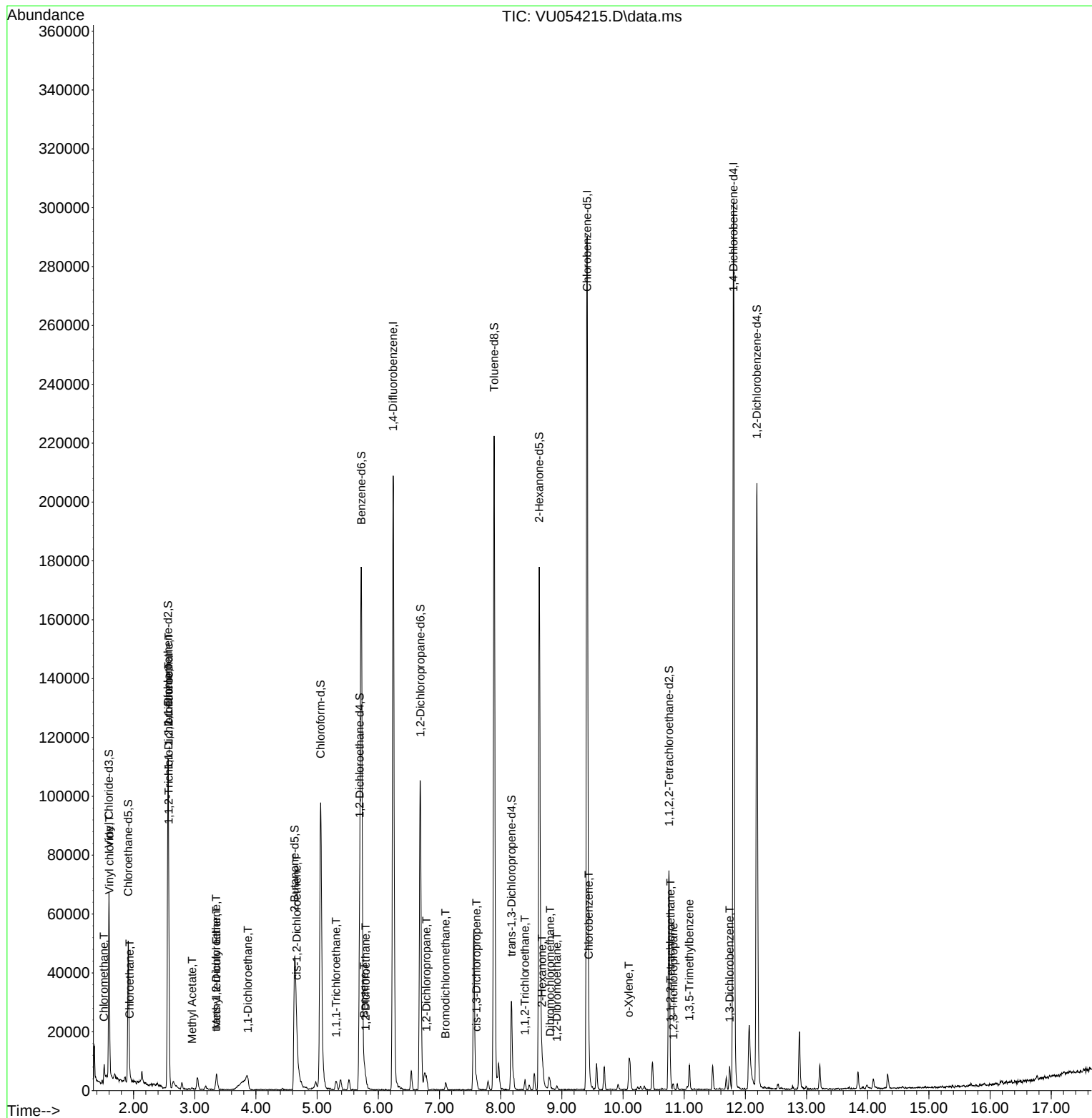
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.919	107	999	0.121	ug/L #	78
51) Chlorobenzene	9.439	112	4751	0.140	ug/L	93
54) o-Xylene	10.095	106	2735	0.130	ug/L	66
57) 1,1,2,2-Tetrachloroethane	10.777	83	1448	0.136	ug/L #	79
61) 1,2,3-Trichloropropane	10.822	75	1023	0.152	ug/L	92
62) 1,3,5-Trimethylbenzene	11.086	105	5066	0.122	ug/L	94
64) 1,3-Dichlorobenzene	11.742	146	3554	0.140	ug/L	95

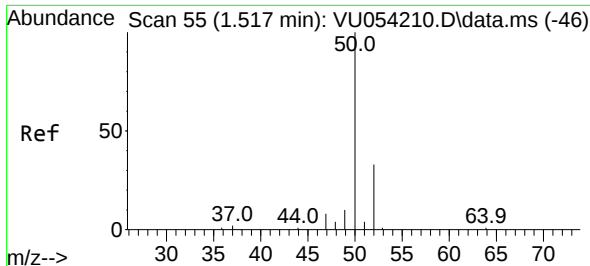
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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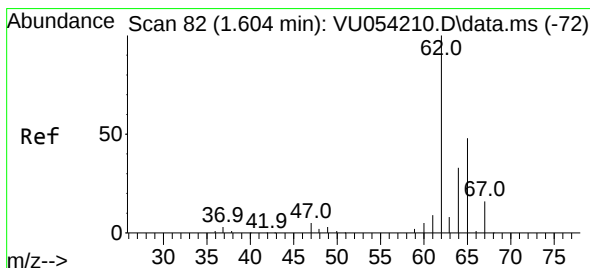
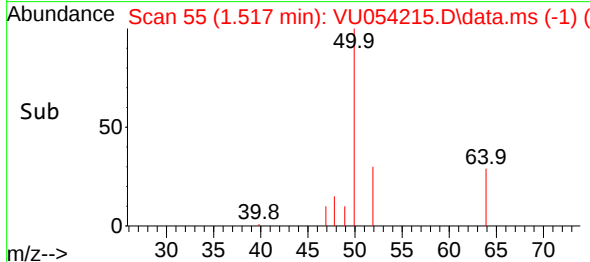
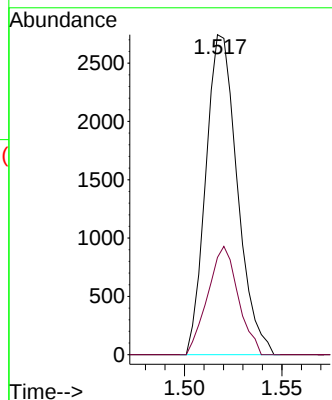
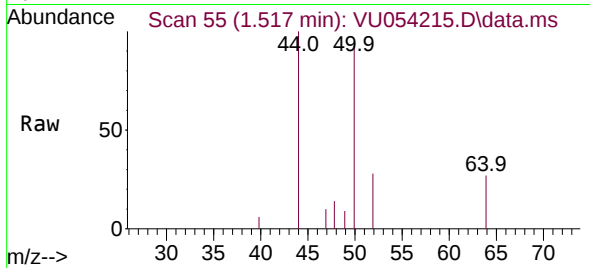




#3
Chloromethane
Concen: 0.253 ug/L
RT: 1.517 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

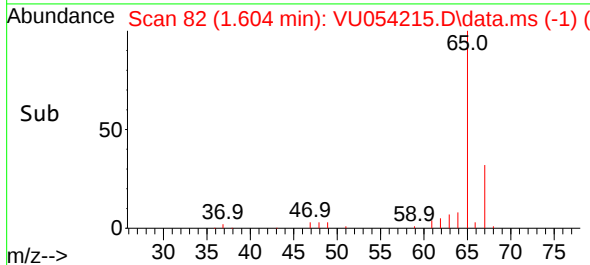
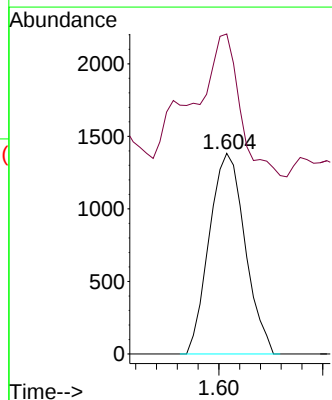
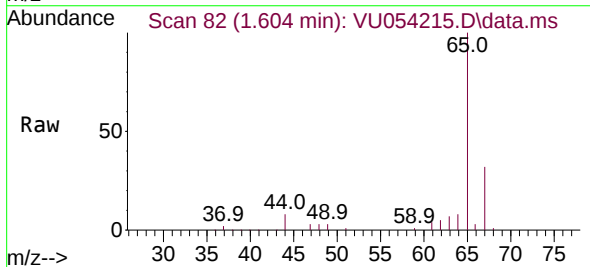
Instrument :
MSVOA_U
ClientSampleId :
C11G1

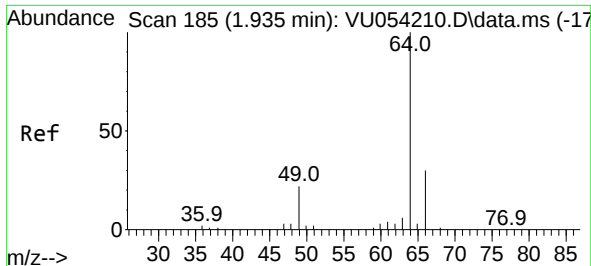
Tgt Ion: 50 Resp: 3083
Ion Ratio Lower Upper
50 100
52 30.4 23.7 44.1



#5
Vinyl chloride
Concen: 0.128 ug/L
RT: 1.604 min Scan# 82
Delta R.T. 0.000 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

Tgt Ion: 62 Resp: 1655
Ion Ratio Lower Upper
62 100
64 159.5 22.4 41.6#





#8

Chloroethane

Concen: 0.143 ug/L

RT: 1.935 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

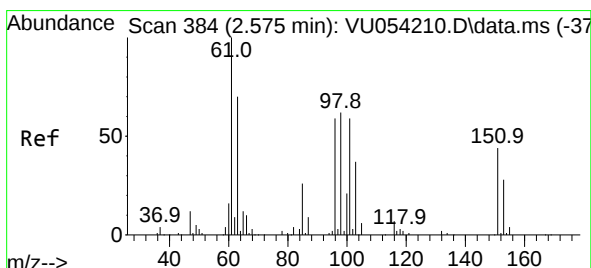
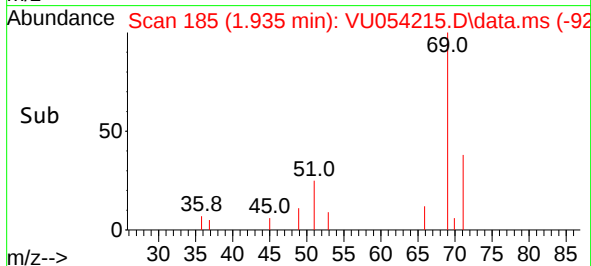
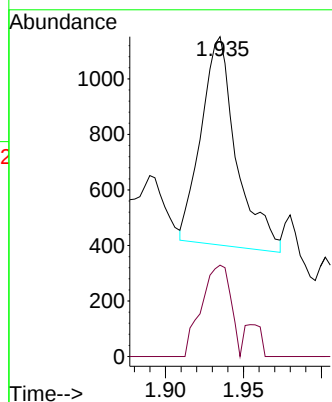
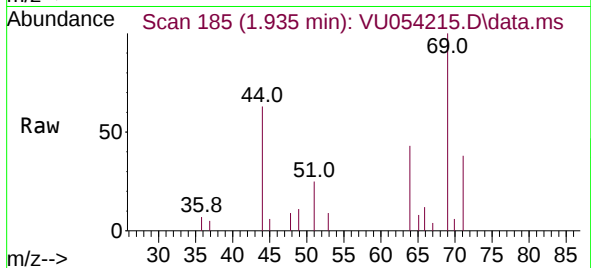
C11G1

Tgt Ion: 64 Resp: 1177

Ion Ratio Lower Upper

64 100

66 28.6 21.6 40.0



#10

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

Concen: 0.190 ug/L

RT: 2.575 min Scan# 384

Delta R.T. 0.000 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

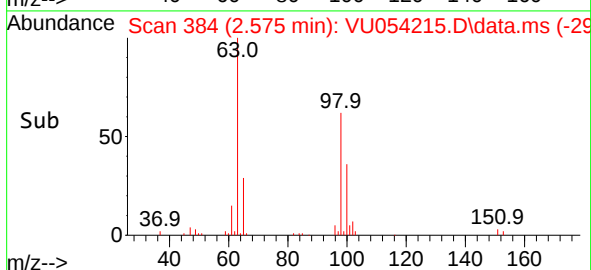
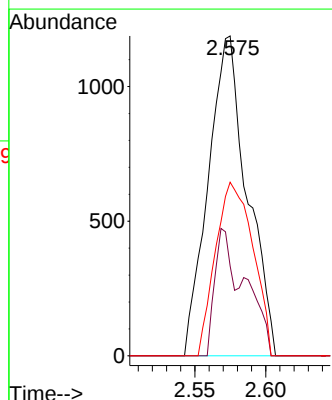
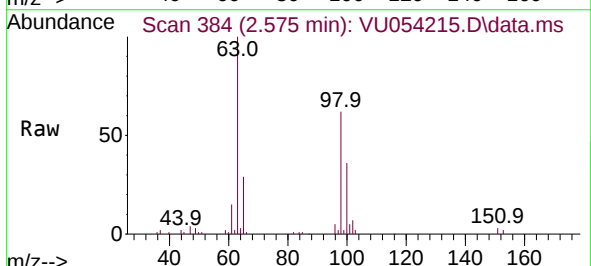
Tgt Ion:101 Resp: 2270

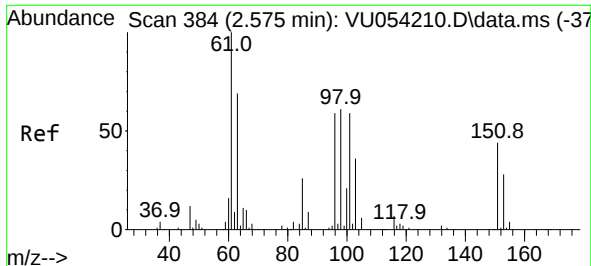
Ion Ratio Lower Upper

101 100

85 19.5 35.0 52.4#

151 52.3 59.0 88.6#





#12

1,1-Dichloroethene

Concen: 0.191 ug/L

RT: 2.572 min Scan# 384

Delta R.T. -0.003 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

C11G1

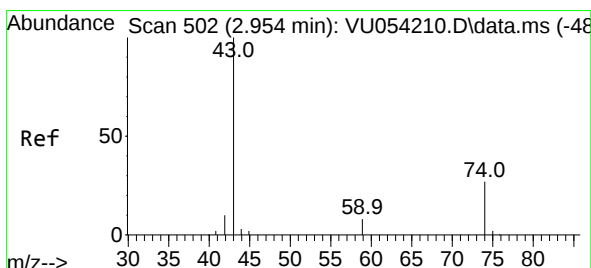
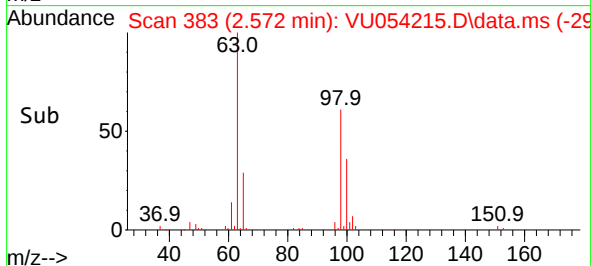
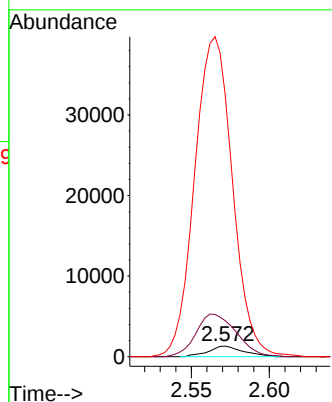
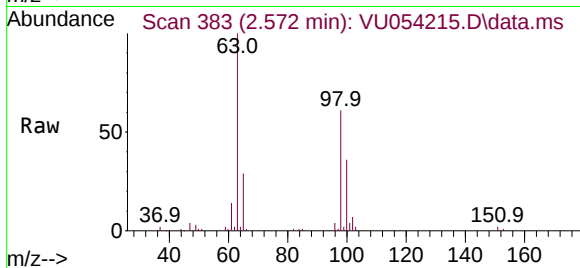
Tgt Ion: 96 Resp: 2033

Ion Ratio Lower Upper

96 100

61 340.4 114.7 212.9#

63 2483.2 68.6 127.4#



#15

Methyl Acetate

Concen: 0.218 ug/L

RT: 2.957 min Scan# 503

Delta R.T. 0.003 min

Lab File: VU054215.D

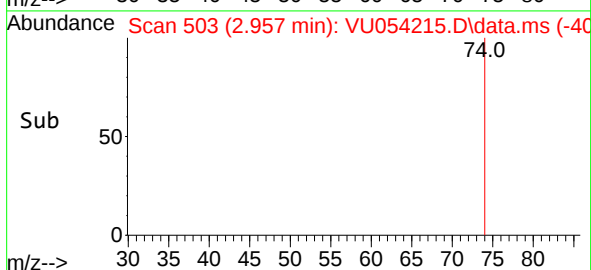
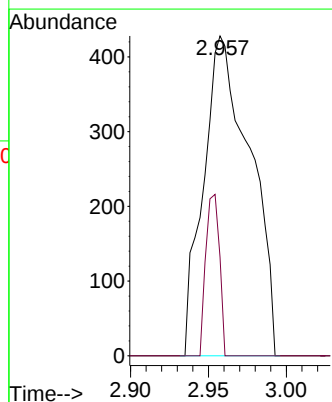
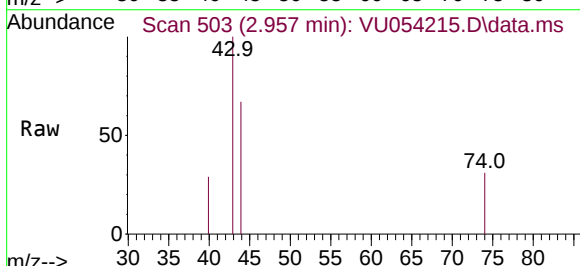
Acq: 19 May 2023 13:29

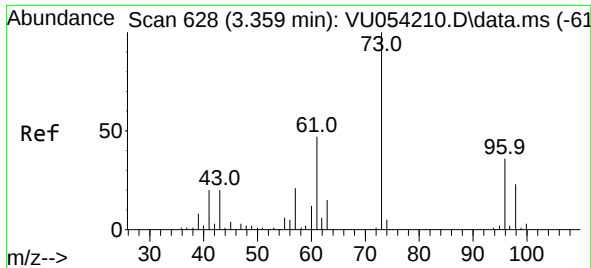
Tgt Ion: 43 Resp: 890

Ion Ratio Lower Upper

43 100

74 14.8 20.3 30.5#

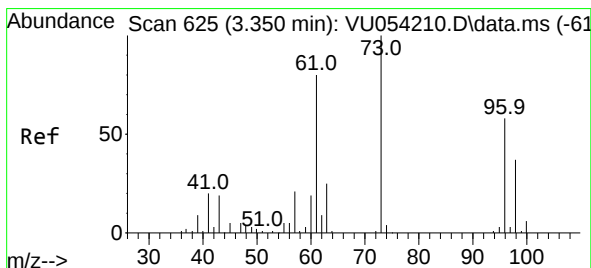
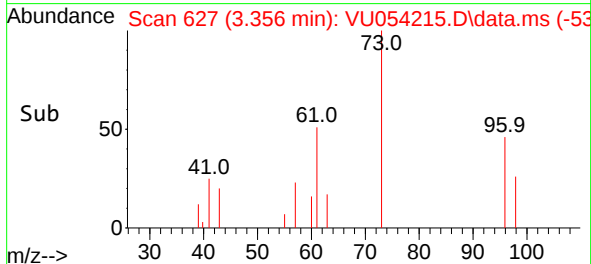
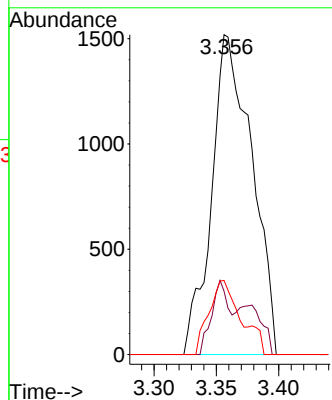
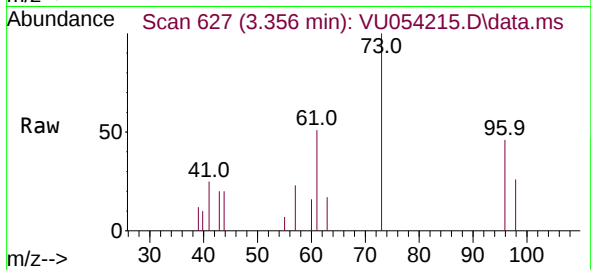




#17
Methyl tert-butyl Ether
Concen: 0.127 ug/L
RT: 3.356 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

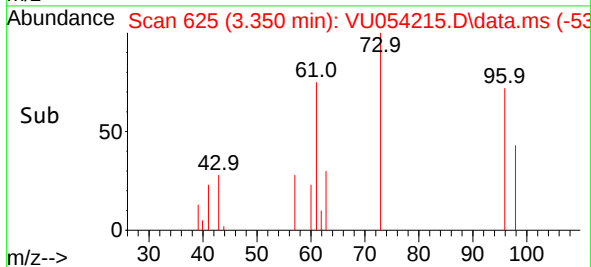
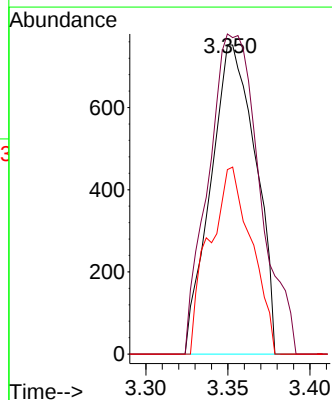
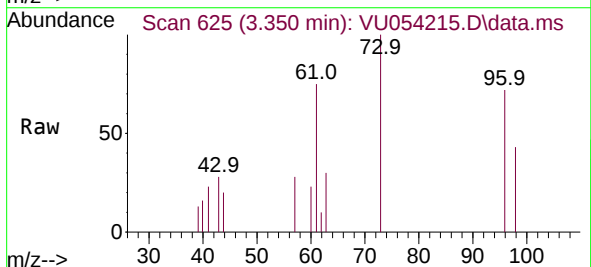
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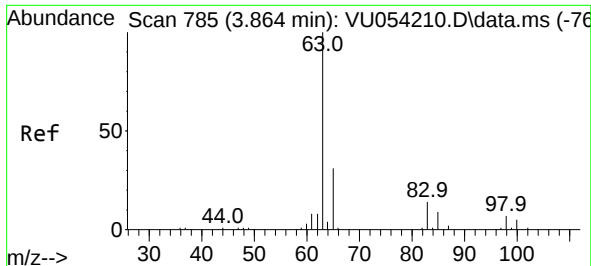
Tgt Ion: 73 Resp: 3417
Ion Ratio Lower Upper
73 100
43 10.0 14.6 22.0#
57 18.4 17.1 25.7



#18
trans-1,2-Dichloroethene
Concen: 0.132 ug/L
RT: 3.350 min Scan# 625
Delta R.T. 0.000 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

Tgt Ion: 96 Resp: 1435
Ion Ratio Lower Upper
96 100
61 103.6 94.1 174.8
98 59.7 45.3 84.1





#19

1,1-Dichloroethane

Concen: 0.139 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

C11G1

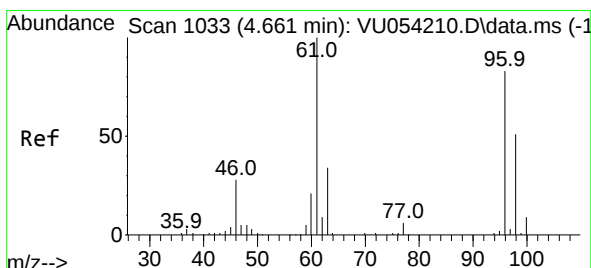
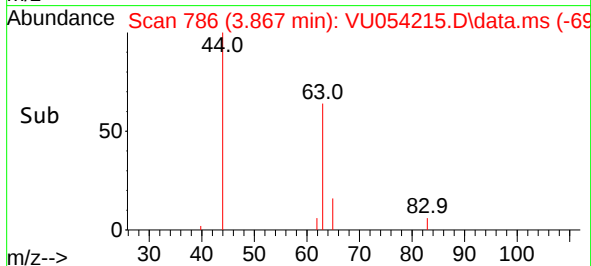
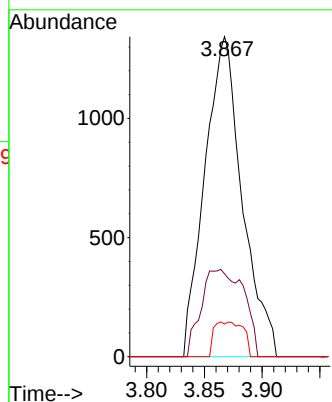
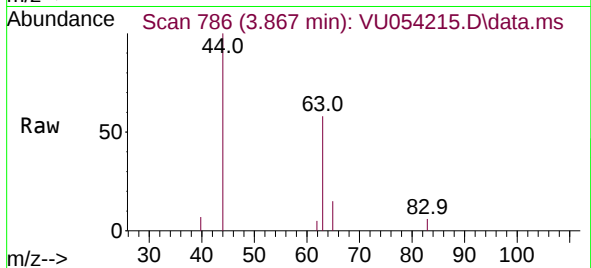
Tgt Ion: 63 Resp: 3020

Ion Ratio Lower Upper

63 100

65 25.9 20.7 38.5

83 10.2 10.1 18.7



#22

cis-1,2-Dichloroethene

Concen: 0.125 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. 0.007 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

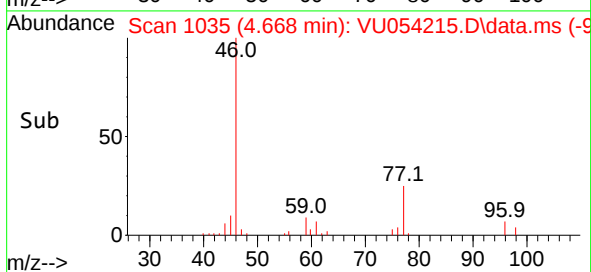
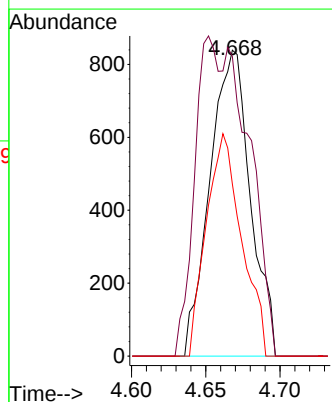
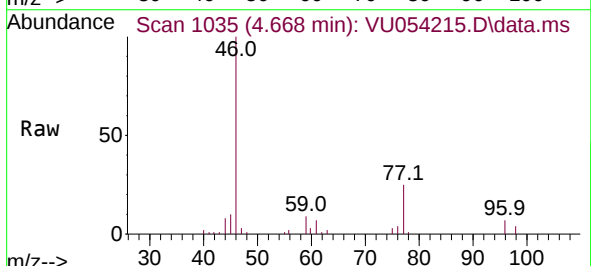
Tgt Ion: 96 Resp: 1588

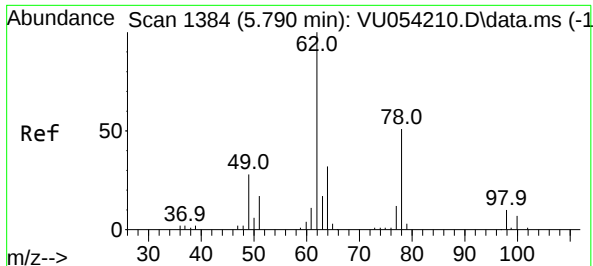
Ion Ratio Lower Upper

96 100

61 98.0 85.0 157.8

98 56.3 45.8 85.0

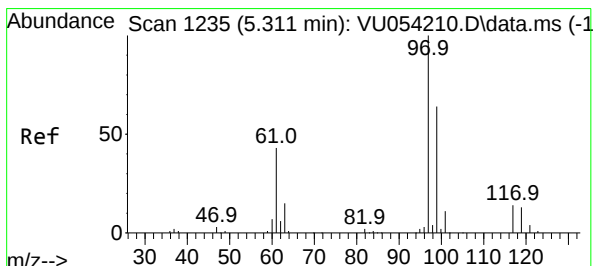
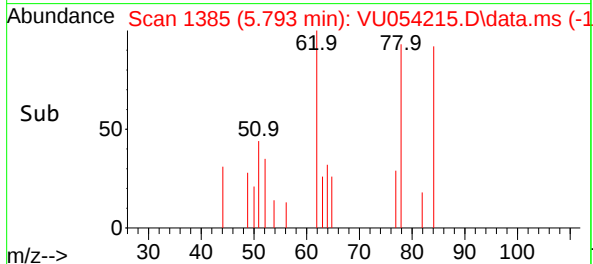
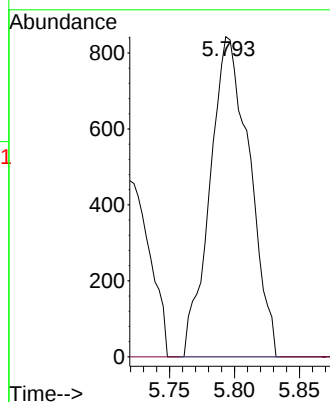
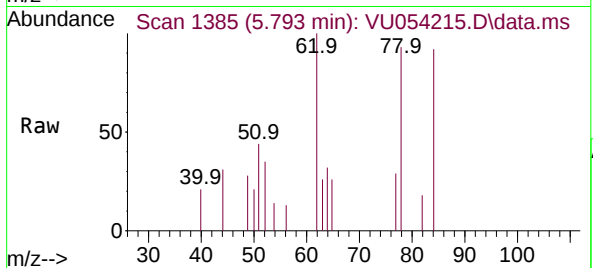




#27
1,2-Dichloroethane
Concen: 0.132 ug/L
RT: 5.793 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

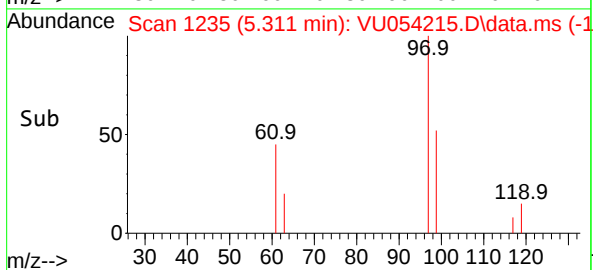
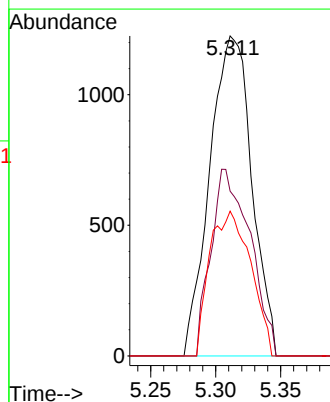
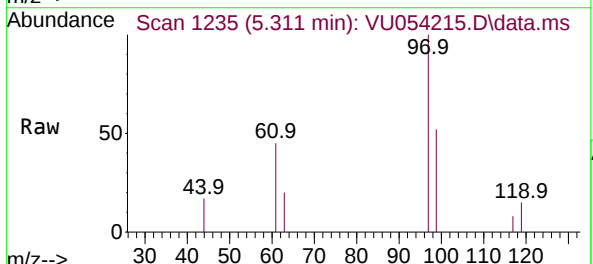
Instrument :
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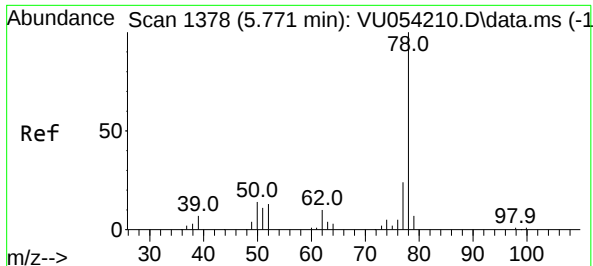
Tgt Ion: 62 Resp: 1783
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#



#29
1,1,1-Trichloroethane
Concen: 0.131 ug/L
RT: 5.311 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

Tgt Ion: 97 Resp: 2761
Ion Ratio Lower Upper
97 100
99 54.2 51.8 77.6
61 44.1 33.4 50.2





#33

Benzene

Concen: 0.125 ug/L

RT: 5.771 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

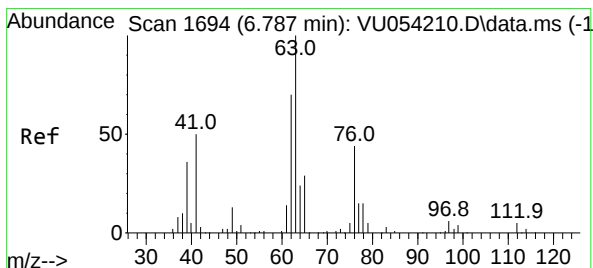
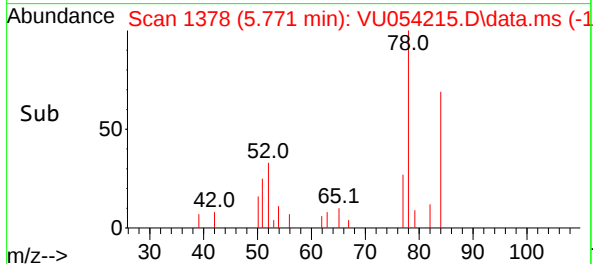
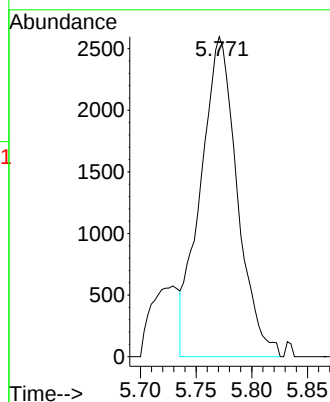
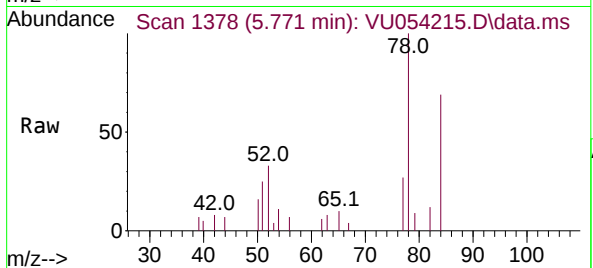
Instrument :

MSVOA_U

ClientSampleId :

C11G1

Tgt Ion: 78 Resp: 5961



#37

1,2-Dichloropropane

Concen: 0.151 ug/L

RT: 6.787 min Scan# 1694

Delta R.T. 0.000 min

Lab File: VU054215.D

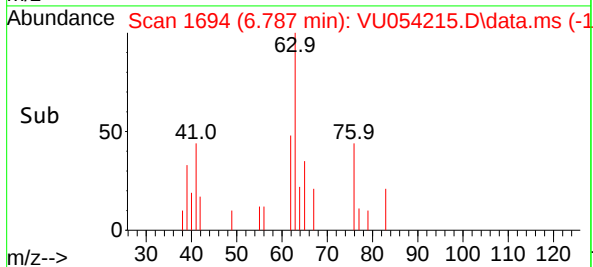
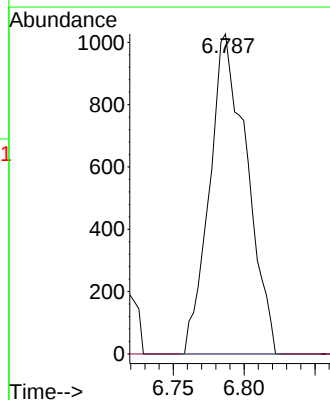
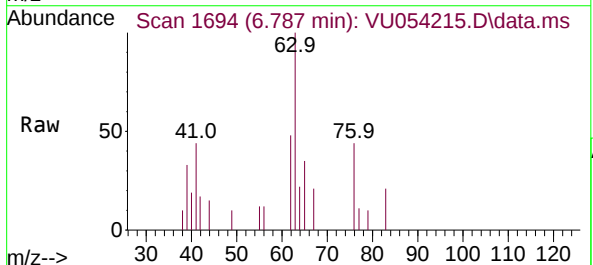
Acq: 19 May 2023 13:29

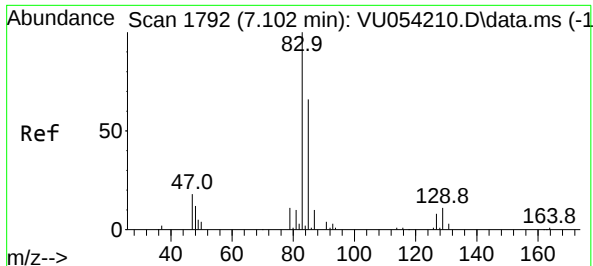
Tgt Ion: 63 Resp: 1884

Ion Ratio Lower Upper

63 100

112 0.0 3.3 4.9#





#38

Bromodichloromethane

Concen: 0.117 ug/L

RT: 7.099 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

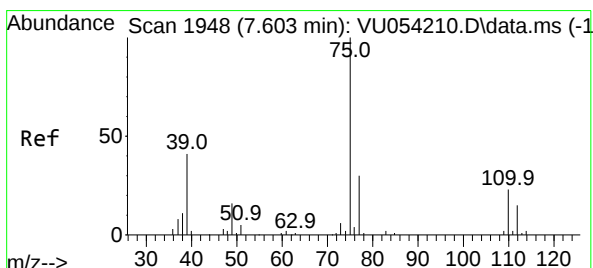
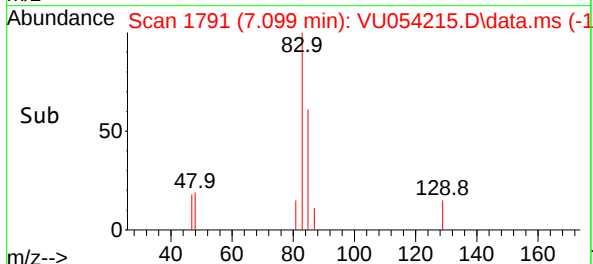
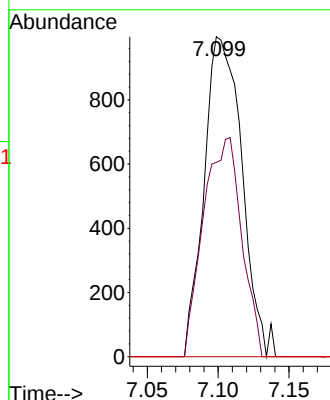
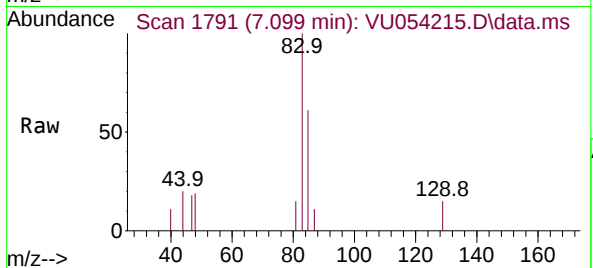
Instrument :

MSVOA_U

ClientSampleId :

C11G1

Tgt Ion:	83	Resp:	1847
Ion Ratio	Lower	Upper	
83	100		
85	60.7	44.2	82.0
127	0.0	6.6	9.8#



#39

cis-1,3-Dichloropropene

Concen: 0.137 ug/L

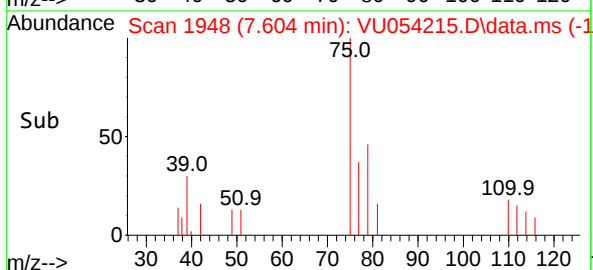
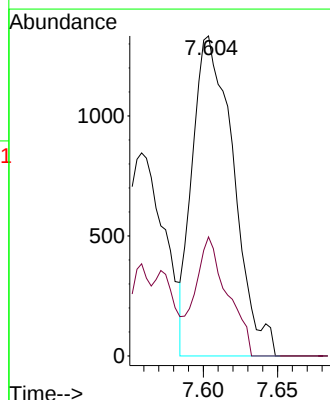
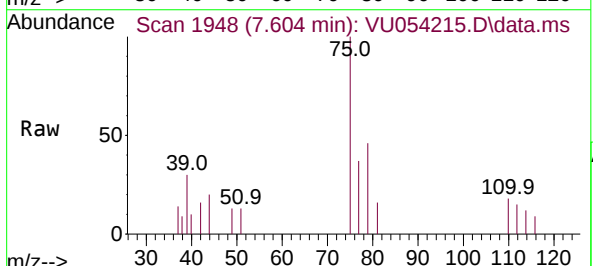
RT: 7.604 min Scan# 1948

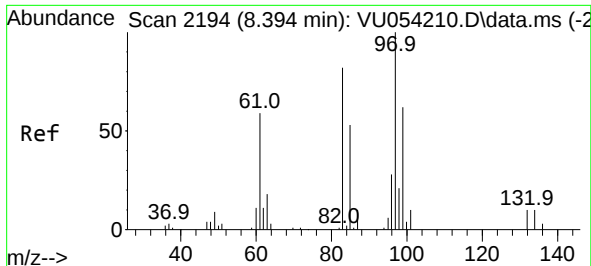
Delta R.T. 0.000 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

Tgt Ion:	75	Resp:	2555
Ion Ratio	Lower	Upper	
75	100		
77	37.2	22.1	41.1



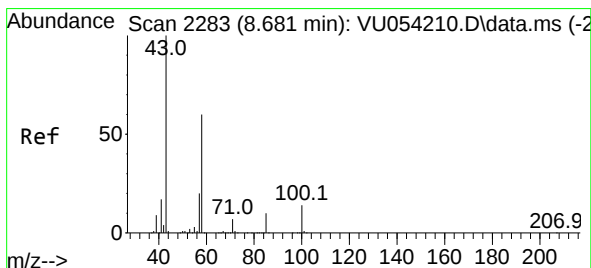
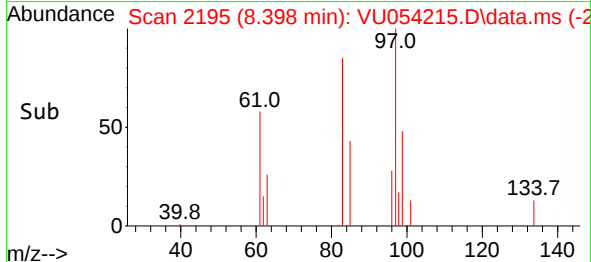
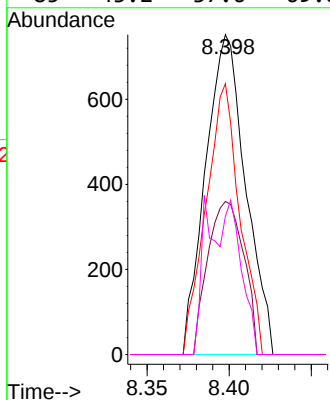
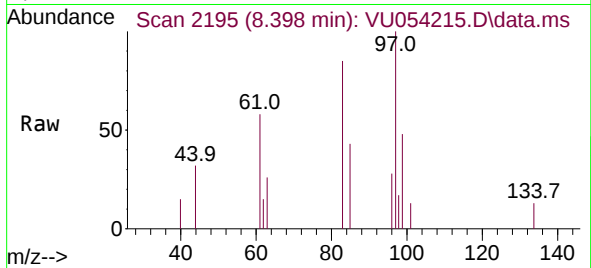


#45
1,1,2-Trichloroethane
Concen: 0.142 ug/L
RT: 8.398 min Scan# 2194
Delta R.T. 0.003 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

Instrument :
MSVOA_U
ClientSampleId :
C11G1

Tgt Ion: 97 Resp: 1273

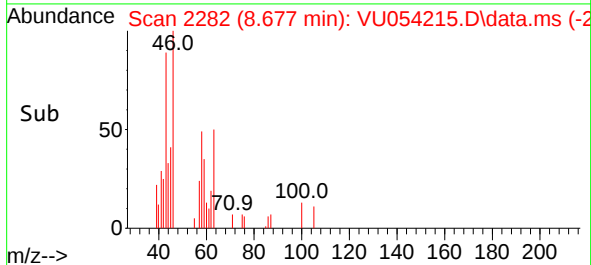
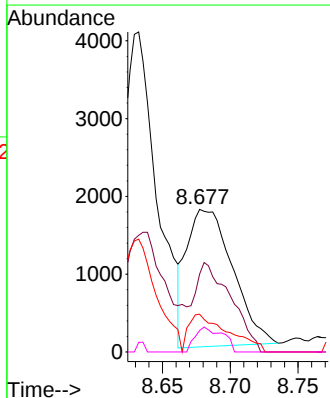
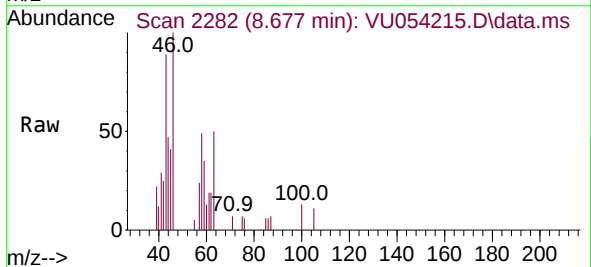
Ion	Ratio	Lower	Upper
97	100		
99	47.9	43.0	79.8
83	84.7	59.1	109.9
85	43.2	37.6	69.8

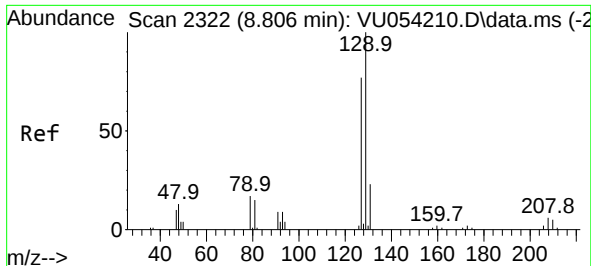


#48
2-Hexanone
Concen: 0.869 ug/L
RT: 8.677 min Scan# 2282
Delta R.T. -0.003 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

Tgt Ion: 43 Resp: 4177

Ion	Ratio	Lower	Upper
43	100		
58	51.4	48.6	72.8
57	23.6	16.7	25.1
100	10.8	11.4	17.2





#49

Dibromochloromethane

Concen: 0.138 ug/L

RT: 8.809 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

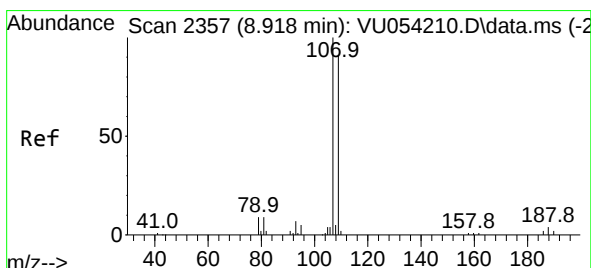
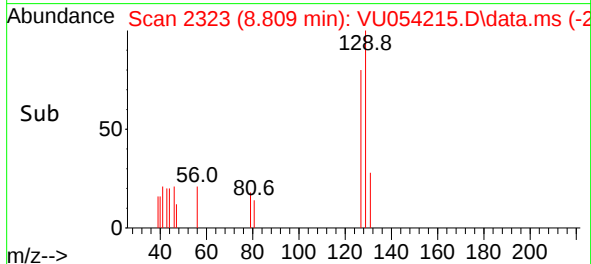
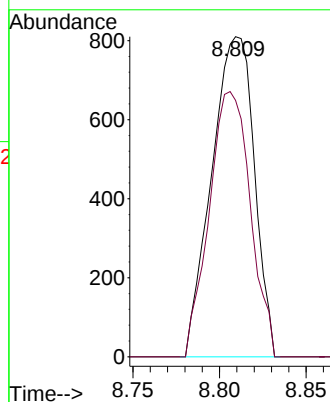
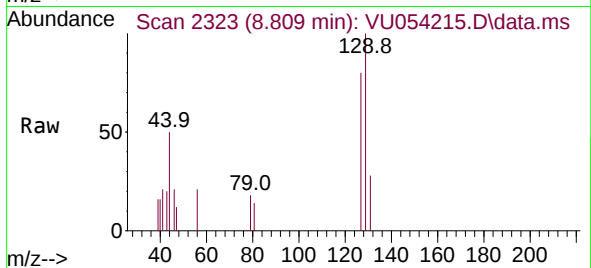
C11G1

Tgt Ion:129 Resp: 1390

Ion Ratio Lower Upper

129 100

127 80.1 53.6 99.6



#50

1,2-Dibromoethane

Concen: 0.121 ug/L

RT: 8.919 min Scan# 2357

Delta R.T. 0.000 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

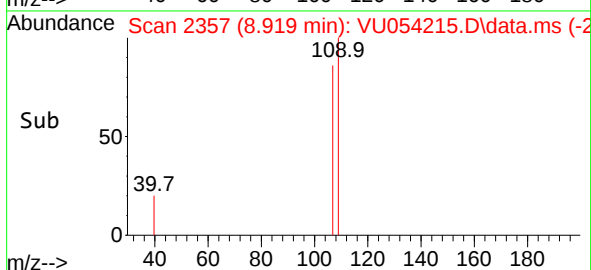
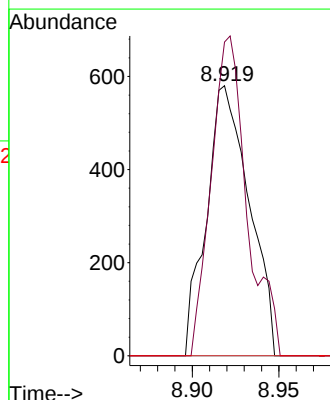
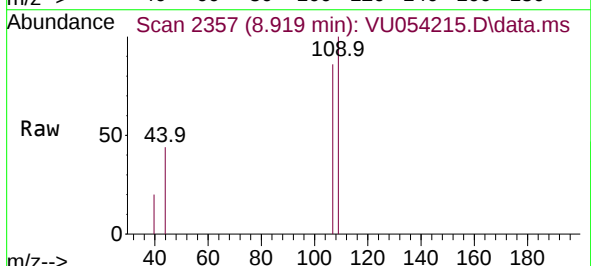
Tgt Ion:107 Resp: 999

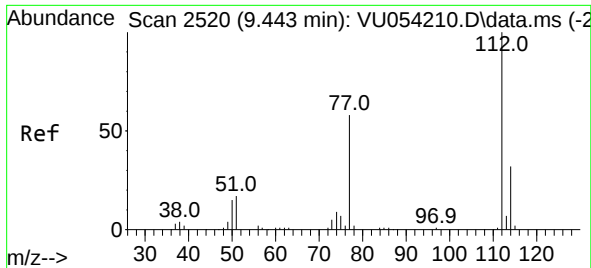
Ion Ratio Lower Upper

107 100

109 116.2 66.4 123.2

188 0.0 3.8 5.6#

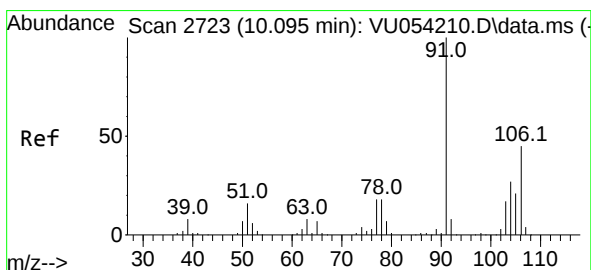
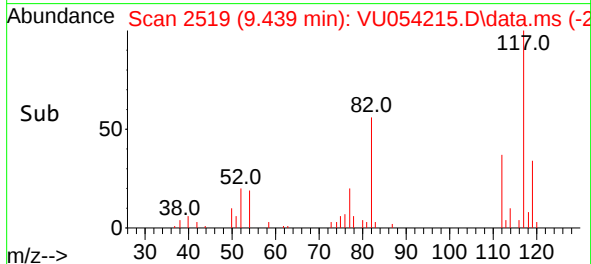
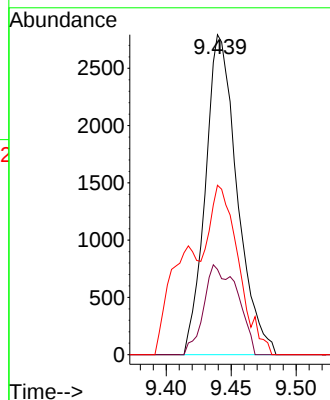
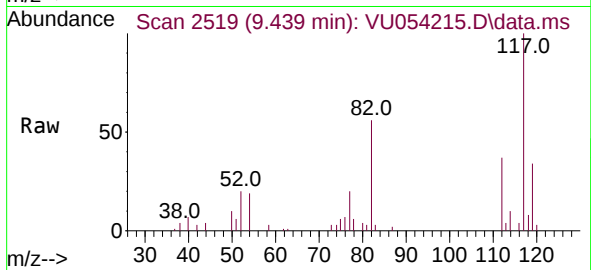




#51
Chlorobenzene
Concen: 0.140 ug/L
RT: 9.439 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

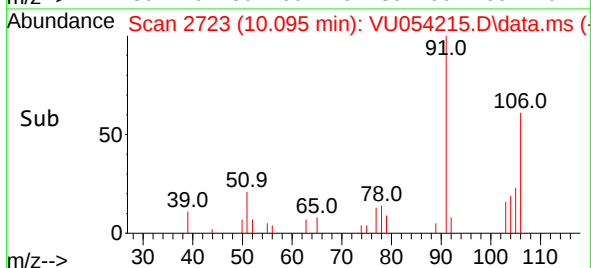
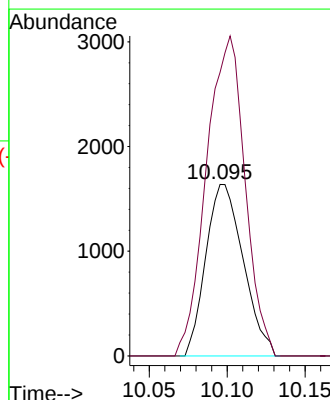
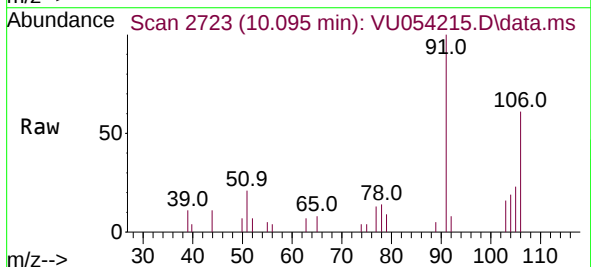
Instrument :
MSVOA_U
ClientSampleId :
C11G1

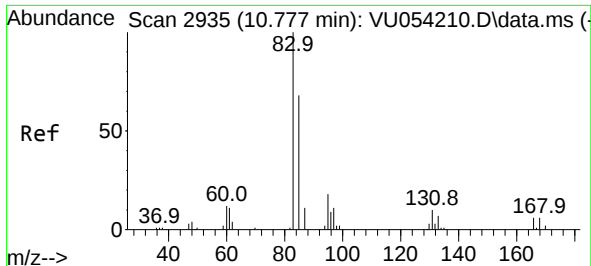
Tgt Ion:112 Resp: 4751
Ion Ratio Lower Upper
112 100
114 26.6 22.4 41.6
77 52.9 46.1 69.1



#54
o-Xylene
Concen: 0.130 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VU054215.D
Acq: 19 May 2023 13:29

Tgt Ion:106 Resp: 2735
Ion Ratio Lower Upper
106 100
91 165.3 153.6 285.3





#57

1,1,2,2-Tetrachloroethane

Concen: 0.136 ug/L

RT: 10.777 min Scan# 2935

Delta R.T. 0.000 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

Instrument :

MSVOA_U

ClientSampleId :

C11G1

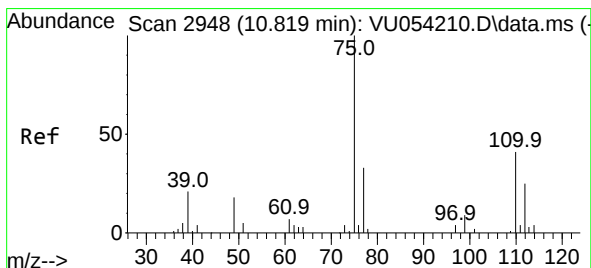
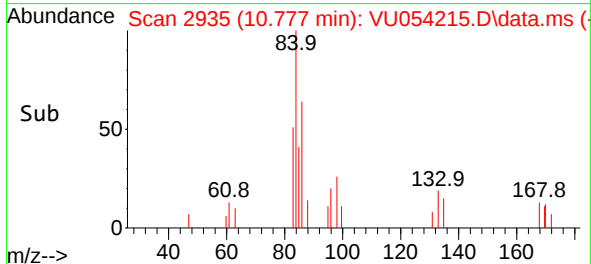
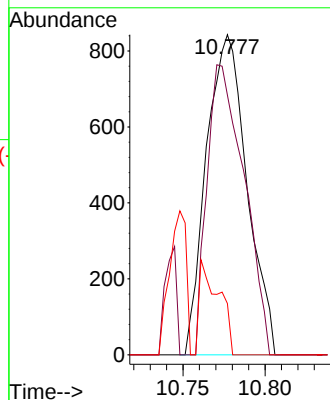
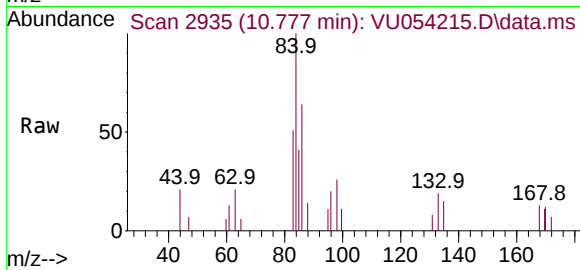
Tgt Ion: 83 Resp: 1448

Ion Ratio Lower Upper

83 100

85 81.1 44.8 83.2

131 16.0 8.1 12.1#



#61

1,2,3-Trichloropropane

Concen: 0.152 ug/L

RT: 10.822 min Scan# 2949

Delta R.T. 0.003 min

Lab File: VU054215.D

Acq: 19 May 2023 13:29

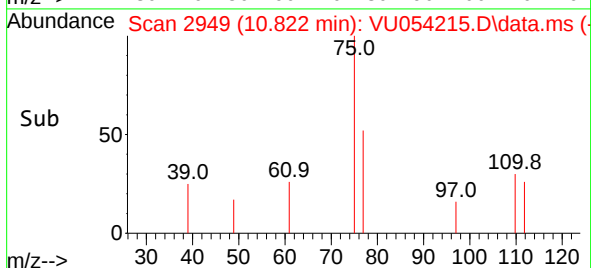
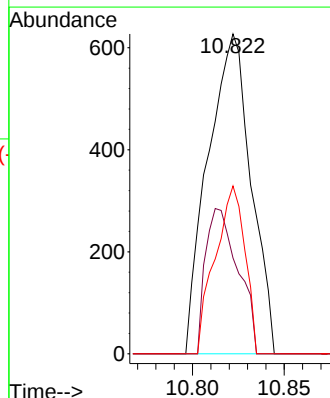
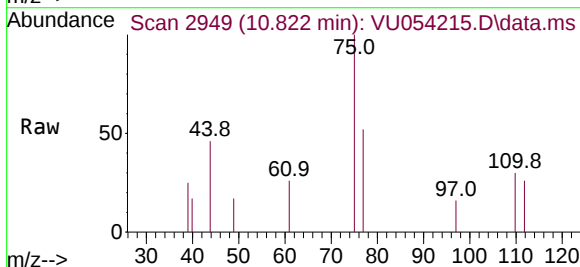
Tgt Ion: 75 Resp: 1023

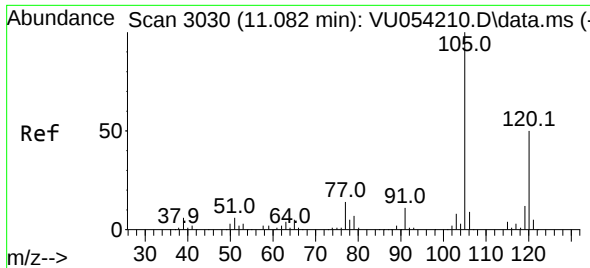
Ion Ratio Lower Upper

75 100

110 34.3 32.3 48.5

77 36.4 26.3 39.5

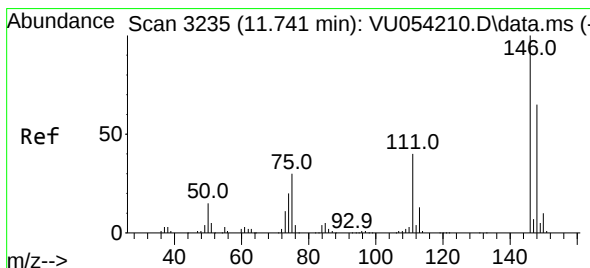
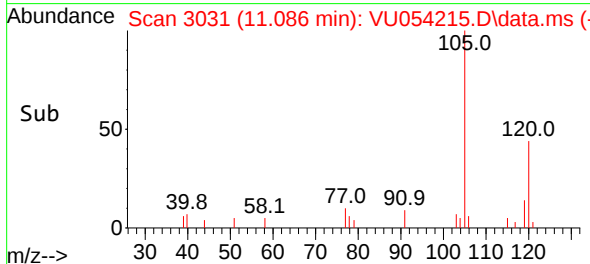
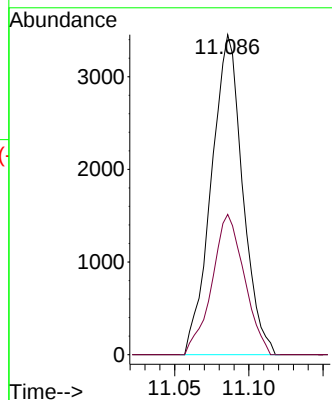
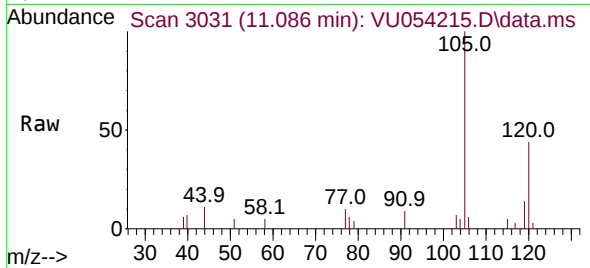




#62
 1,3,5-Trimethylbenzene
 Concen: 0.122 ug/L
 RT: 11.086 min Scan# 3030
 Delta R.T. 0.003 min
 Lab File: VU054215.D
 Acq: 19 May 2023 13:29

Instrument :
 MSVOA_U
 ClientSampleId :
 C11G1

Tgt Ion:105 Resp: 5066
 Ion Ratio Lower Upper
 105 100
 120 45.3 39.4 59.0



#64
 1,3-Dichlorobenzene
 Concen: 0.140 ug/L
 RT: 11.742 min Scan# 3235
 Delta R.T. 0.000 min
 Lab File: VU054215.D
 Acq: 19 May 2023 13:29

Tgt Ion:146 Resp: 3554
 Ion Ratio Lower Upper
 146 100
 111 32.1 27.8 51.6
 148 64.1 44.4 82.4

