

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021423\
 Data File : VU053102.D
 Acq On : 14 Feb 2023 18:25
 Operator : JC/MD
 Sample : 01378-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2023-02

Quant Time: Feb 15 00:54:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM021423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 15 00:41:46 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	250376	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	230576	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	109903	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.598	65	102629	44.621	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.240%
7) Chloroethane-d5	1.913	69	90763	46.626	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.260%
11) 1,1-Dichloroethene-d2	2.563	63	142178	36.038	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.080%
21) 2-Butanone-d5	4.627	46	119823	99.681	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.680%
24) Chloroform-d	5.058	84	188144	46.371	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.740%
26) 1,2-Dichloroethane-d4	5.695	65	121694	47.165	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.320%
32) Benzene-d6	5.720	84	389909	47.402	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.800%
36) 1,2-Dichloropropane-d6	6.685	67	129210	48.084	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.160%
41) Toluene-d8	7.894	98	356903	46.861	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.720%
43) trans-1,3-Dichloroprop...	8.174	79	64164	46.883	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.760%
47) 2-Hexanone-d5	8.627	63	90849	97.871	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.870%
56) 1,1,2,2-Tetrachloroeth...	10.752	84	165728	46.339	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.680%
66) 1,2-Dichlorobenzene-d4	12.190	152	117111	47.933	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.860%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	5188	2.025	ug/L	98
3) Chloromethane	1.518	50	5696	2.281	ug/L	97
5) Vinyl chloride	1.602	62	5713	2.134	ug/L #	59
6) Bromomethane	1.859	94	3484	2.048	ug/L	89
8) Chloroethane	1.933	64	3671	2.253	ug/L	88
9) Trichlorofluoromethane	2.135	101	7701	2.213	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.569	101	4970	2.554	ug/L	90
12) 1,1-Dichloroethene	2.576	96	4795	2.604	ug/L #	1
14) Carbon disulfide	2.791	76	12196	2.044	ug/L	96
15) Methyl Acetate	2.955	43	3628	2.214	ug/L	96
17) trans-1,2-Dichloroethene	3.351	96	3727	1.993	ug/L	96
18) Methyl tert-butyl Ether	3.357	73	12583	2.002	ug/L #	91
19) 1,1-Dichloroethane	3.865	63	7699	2.098	ug/L	97
20) cis-1,2-Dichloroethene	4.663	96	4391	2.016	ug/L	85
22) 2-Butanone	4.720	43	4976	4.306	ug/L	82
23) Bromochloromethane	4.971	128	2271	2.221	ug/L	83
25) Chloroform	5.077	83	9158	2.449	ug/L	92
27) 1,2-Dichloroethane	5.791	62	6243	2.151	ug/L #	91
29) Cyclohexane	5.380	56	7157	2.101	ug/L #	90

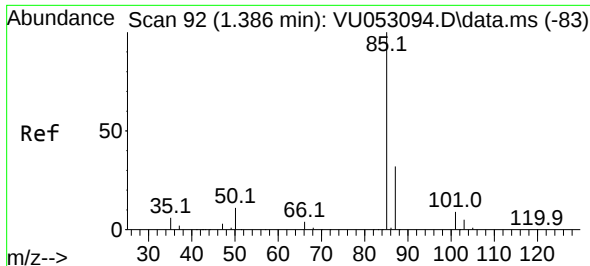
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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 1,1,1-Trichloroethane	5.315	97	6685	2.075	ug/L	99
31) Carbon tetrachloride	5.521	117	5525	2.018	ug/L	98
33) Benzene	5.769	78	17870	2.203	ug/L	100
34) Trichloroethene	6.537	95	4200	1.996	ug/L	94
35) Methylcyclohexane	6.759	83	7832	2.149	ug/L	97
37) 1,2-Dichloropropane	6.788	63	4779	2.137	ug/L #	90
38) Bromodichloromethane	7.103	83	5955	2.117	ug/L #	97
39) cis-1,3-Dichloropropene	7.605	75	7760	2.113	ug/L	99
40) 4-Methyl-2-pentanone	7.788	43	9918	4.164	ug/L	98
42) Toluene	7.968	91	17834	2.067	ug/L	98
44) trans-1,3-Dichloropropene	8.209	75	6785	1.994	ug/L	91
45) 1,1,2-Trichloroethane	8.396	97	4161	2.051	ug/L	92
46) Tetrachloroethene	8.550	164	3001	2.153	ug/L	88
48) 2-Hexanone	8.682	43	11065	5.887	ug/L #	96
49) Dibromochloromethane	8.807	129	4397	2.099	ug/L	93
50) 1,2-Dibromoethane	8.923	107	4529	2.102	ug/L #	92
51) Chlorobenzene	9.444	112	11136	2.084	ug/L	98
52) Ethylbenzene	9.566	91	19474	2.024	ug/L	99
53) m,p-Xylene	9.691	106	7220	1.996	ug/L	99
54) o-xylene	10.096	106	7157	1.995	ug/L	92
55) Styrene	10.112	104	11531	1.938	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.778	83	7385	2.245	ug/L #	94
59) Bromoform	10.286	173	2639	1.951	ug/L #	91
60) 1,2,3-Trichloropropane	10.817	75	4981	2.171	ug/L	95
61) Isopropylbenzene	10.482	105	18633	2.124	ug/L	97
62) 1,3,5-Trimethylbenzene	11.084	105	15310	2.061	ug/L	99
63) 1,2,4-Trimethylbenzene	11.463	105	14901	2.072	ug/L	96
64) 1,3-Dichlorobenzene	11.743	146	7356	2.047	ug/L	97
65) 1,4-Dichlorobenzene	11.833	146	7674	2.105	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	7918	2.180	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.993	75	1307	1.933	ug/L	96
69) 1,3,5-Trichlorobenzene	13.218	180	4399	1.806	ug/L	97
70) 1,2,4-trichlorobenzene	13.836	180	3820	1.657	ug/L #	83
72) 1,2,3-Trichlorobenzene	14.328	180	4224	1.825	ug/L	97

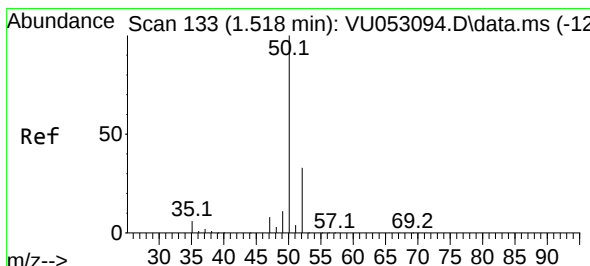
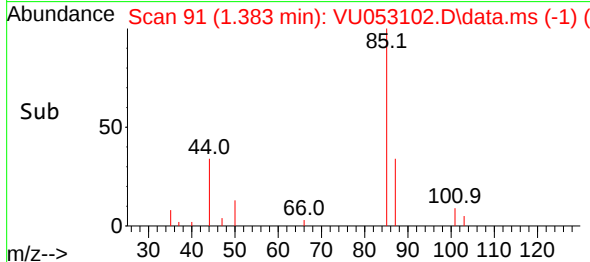
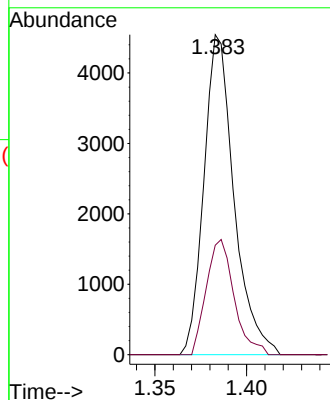
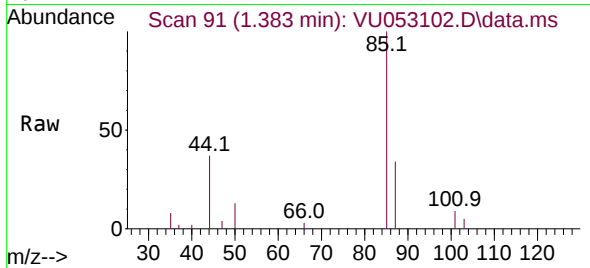
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 2.025 ug/L
 RT: 1.383 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU053102.D
 Acq: 14 Feb 2023 18:25

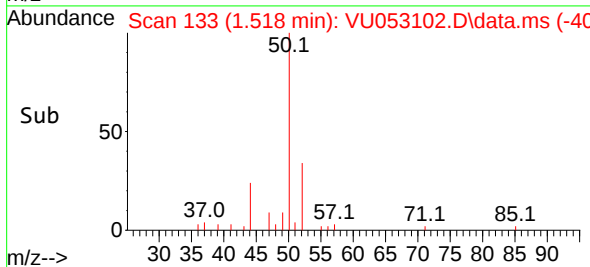
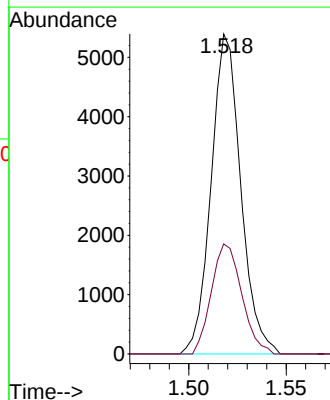
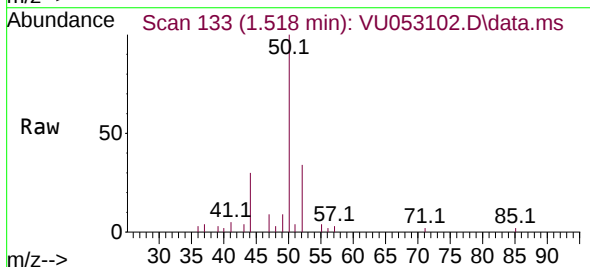
Instrument :
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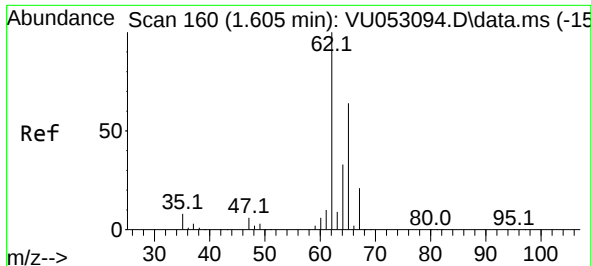
Tgt Ion: 85 Resp: 5188
 Ion Ratio Lower Upper
 85 100
 87 33.2 25.6 38.4



#3
 Chloromethane
 Concen: 2.281 ug/L
 RT: 1.518 min Scan# 133
 Delta R.T. 0.000 min
 Lab File: VU053102.D
 Acq: 14 Feb 2023 18:25

Tgt Ion: 50 Resp: 5696
 Ion Ratio Lower Upper
 50 100
 52 34.4 22.8 42.4

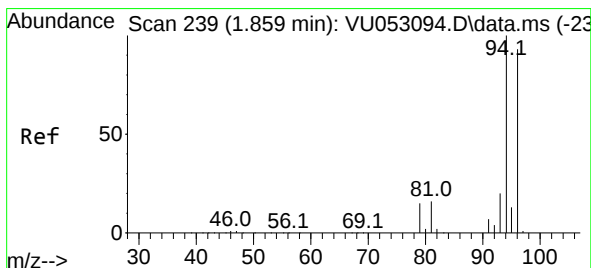
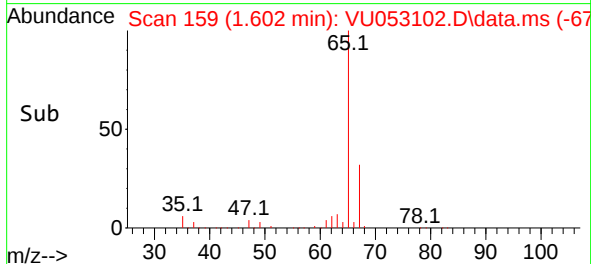
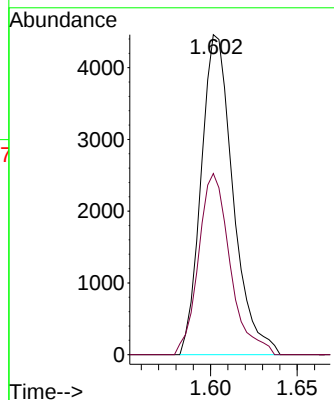
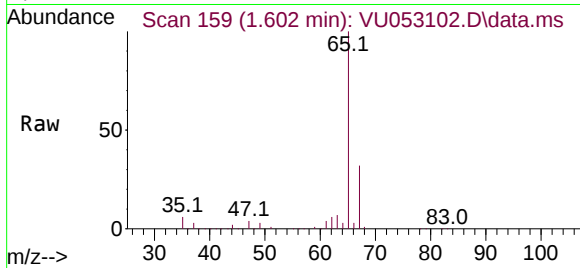




#5
 Vinyl chloride
 Concen: 2.134 ug/L
 RT: 1.602 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VU053102.D
 Acq: 14 Feb 2023 18:25

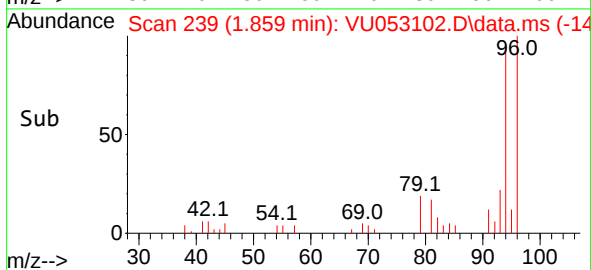
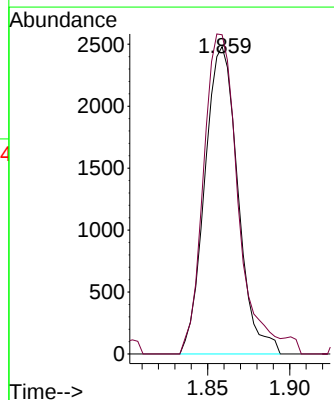
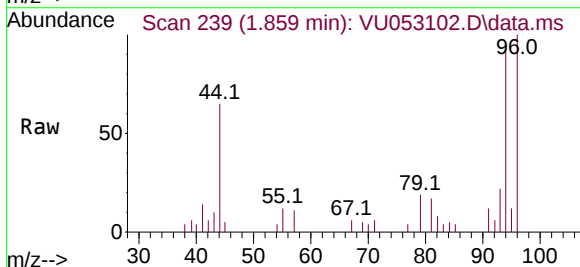
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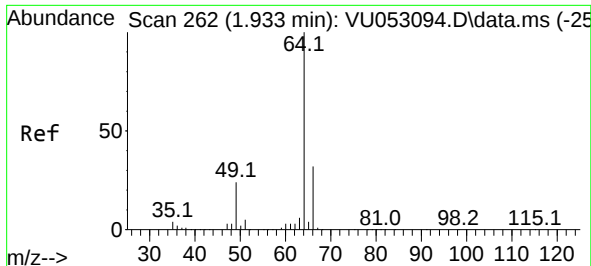
Tgt Ion: 62 Resp: 5713
 Ion Ratio Lower Upper
 62 100
 64 56.6 23.4 43.6#



#6
 Bromomethane
 Concen: 2.048 ug/L
 RT: 1.859 min Scan# 239
 Delta R.T. 0.000 min
 Lab File: VU053102.D
 Acq: 14 Feb 2023 18:25

Tgt Ion: 94 Resp: 3484
 Ion Ratio Lower Upper
 94 100
 96 103.9 65.0 120.8

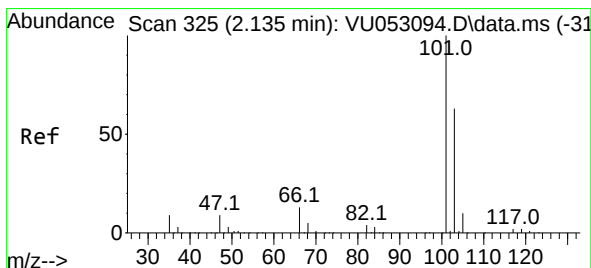
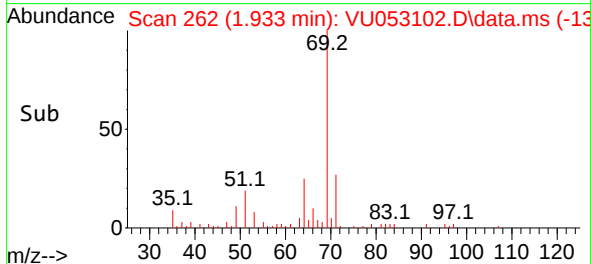
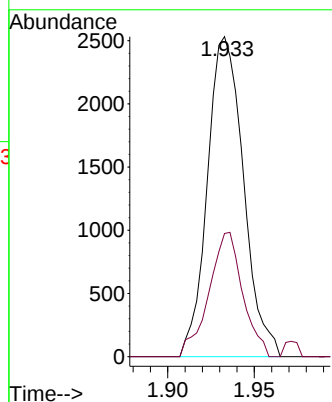
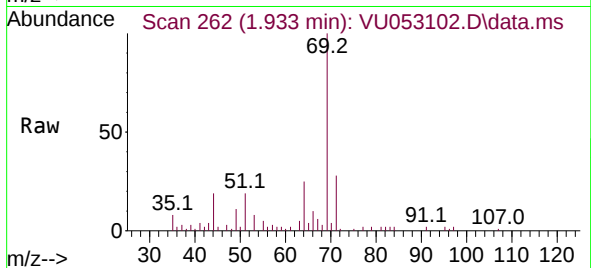




#8
Chloroethane
Concen: 2.253 ug/L
RT: 1.933 min Scan# 262
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

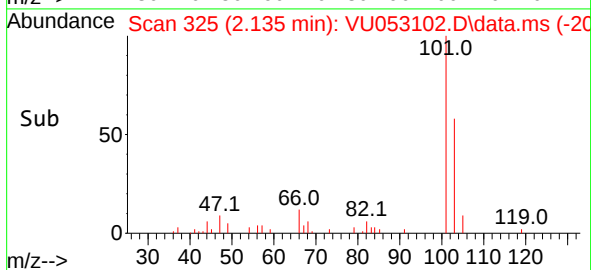
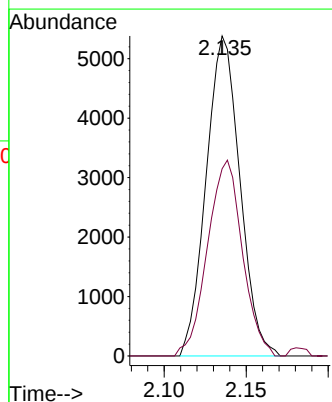
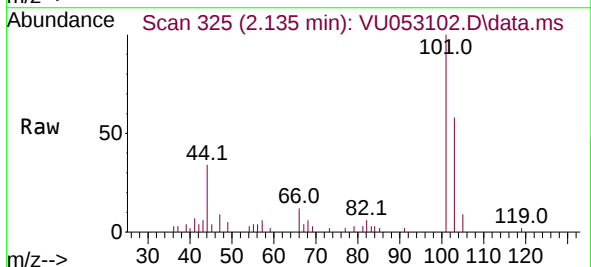
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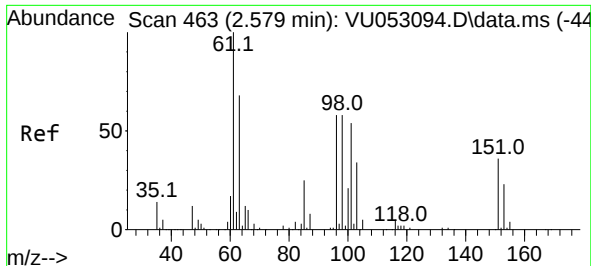
Tgt Ion: 64 Resp: 3671
Ion Ratio Lower Upper
64 100
66 38.5 22.4 41.6



#9
Trichlorofluoromethane
Concen: 2.213 ug/L
RT: 2.135 min Scan# 325
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Tgt Ion:101 Resp: 7701
Ion Ratio Lower Upper
101 100
103 63.1 51.4 77.0

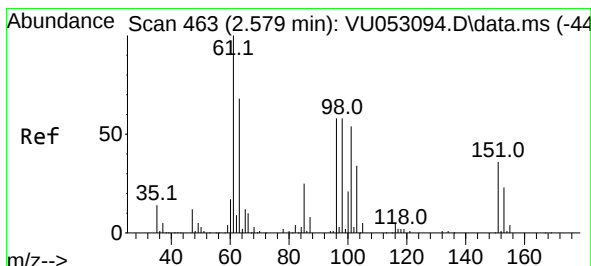
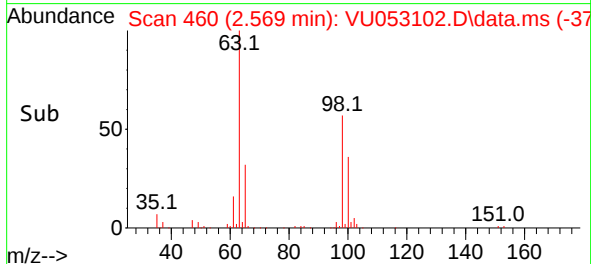
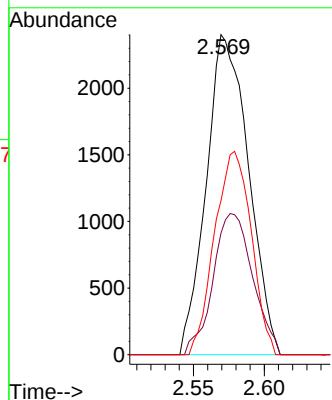
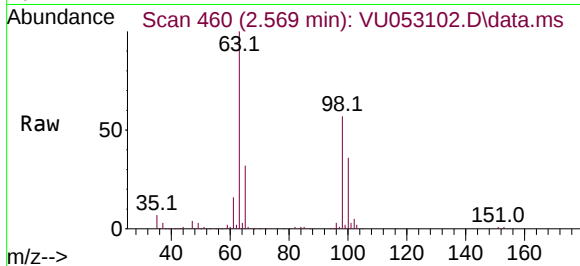




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.554 ug/L
 RT: 2.569 min Scan# 410
 Delta R.T. -0.009 min
 Lab File: VU053102.D
 Acq: 14 Feb 2023 18:25

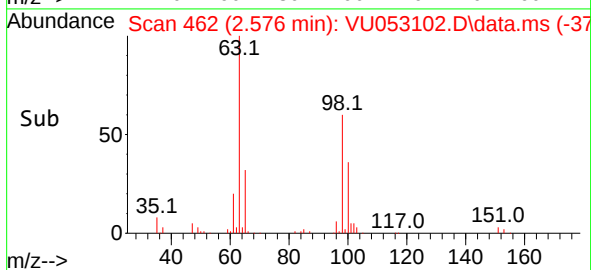
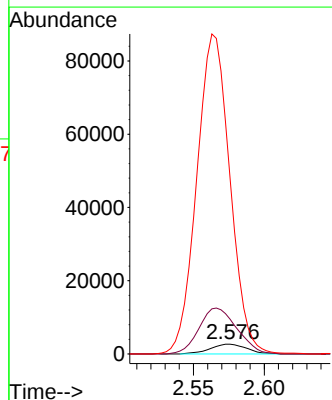
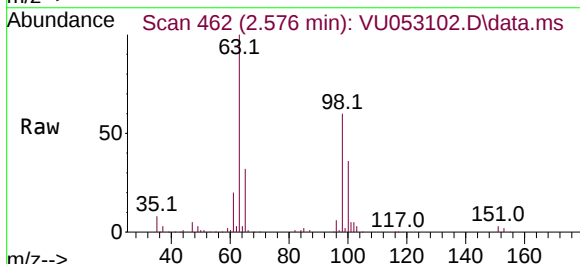
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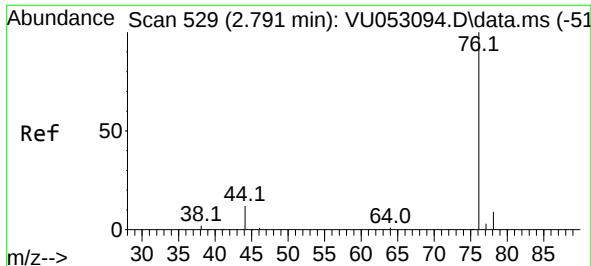
Tgt Ion:101 Resp: 4970
 Ion Ratio Lower Upper
 101 100
 85 41.6 36.6 54.8
 151 55.4 52.6 79.0



#12
 1,1-Dichloroethene
 Concen: 2.604 ug/L
 RT: 2.576 min Scan# 462
 Delta R.T. -0.003 min
 Lab File: VU053102.D
 Acq: 14 Feb 2023 18:25

Tgt Ion: 96 Resp: 4795
 Ion Ratio Lower Upper
 96 100
 61 354.2 121.9 226.3#
 63 1785.7 84.2 156.4#





#14

Carbon disulfide

Concen: 2.044 ug/L

RT: 2.791 min Scan# 51

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

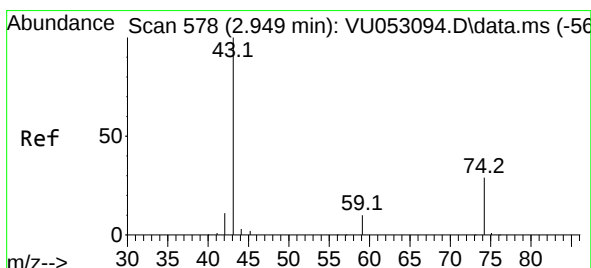
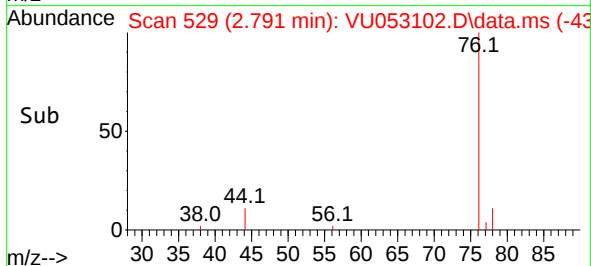
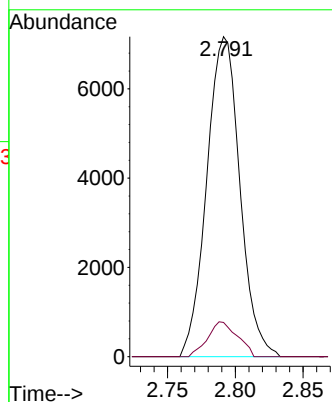
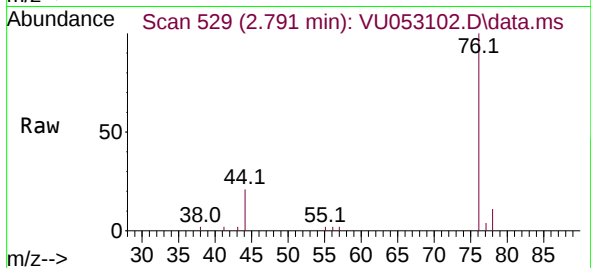
MDL-WATER-QT1-2023-02

Tgt Ion: 76 Resp: 12196

Ion Ratio Lower Upper

76 100

78 10.7 7.4 11.0



#15

Methyl Acetate

Concen: 2.214 ug/L

RT: 2.955 min Scan# 580

Delta R.T. 0.007 min

Lab File: VU053102.D

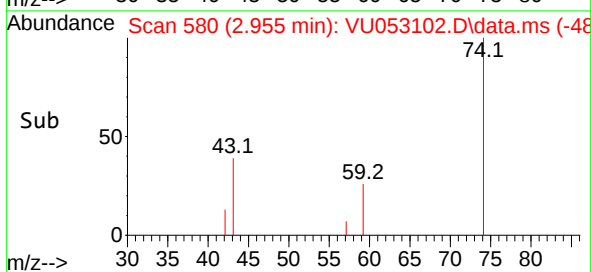
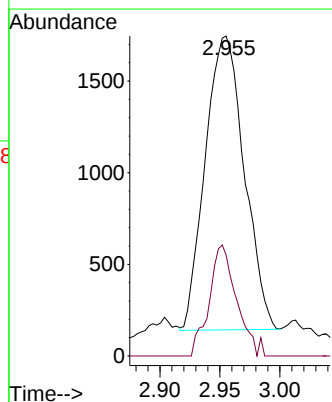
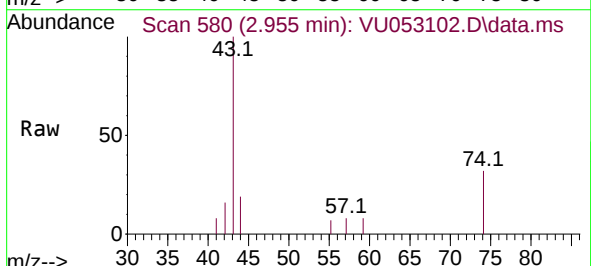
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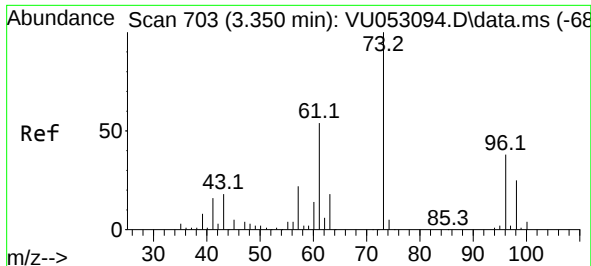
Tgt Ion: 43 Resp: 3628

Ion Ratio Lower Upper

43 100

74 26.0 22.7 34.1





#17

trans-1,2-Dichloroethene

Concen: 1.993 ug/L

RT: 3.351 min Scan# 703

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

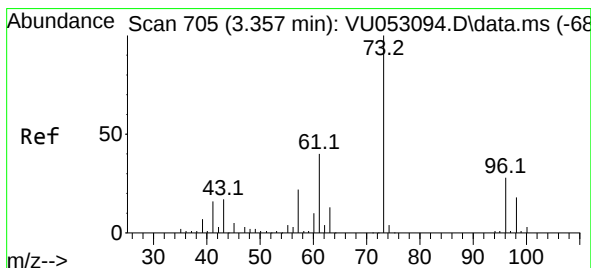
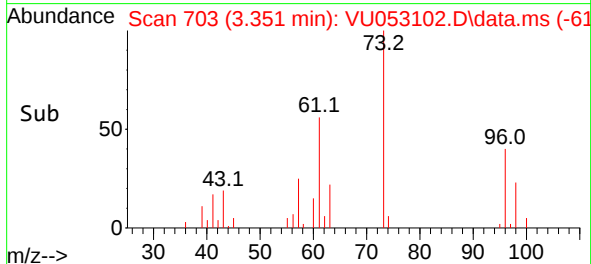
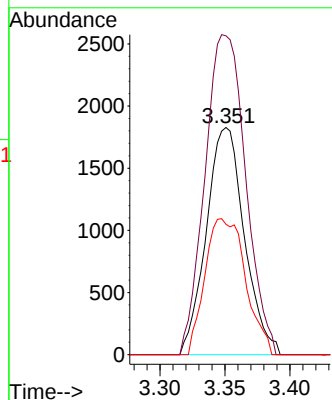
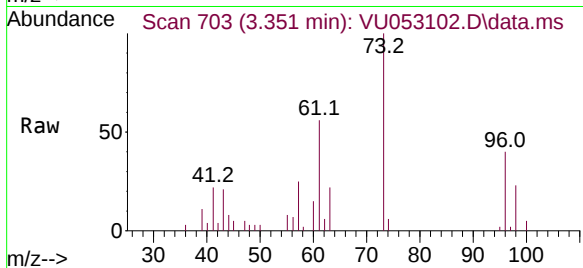
Tgt Ion: 96 Resp: 3727

Ion Ratio Lower Upper

96 100

61 140.3 99.2 184.2

98 57.4 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 2.002 ug/L

RT: 3.357 min Scan# 705

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

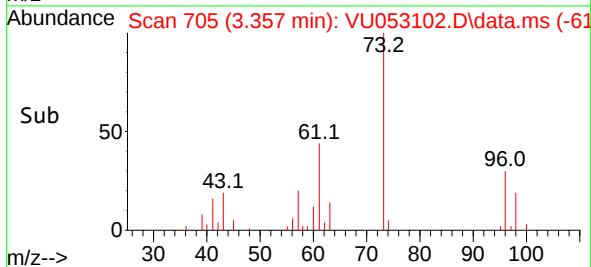
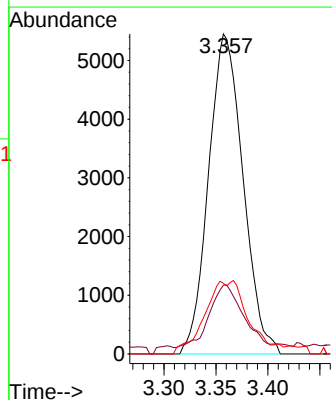
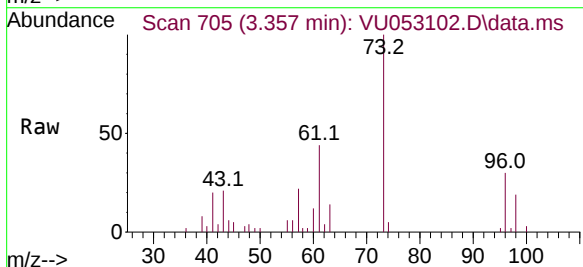
Tgt Ion: 73 Resp: 12583

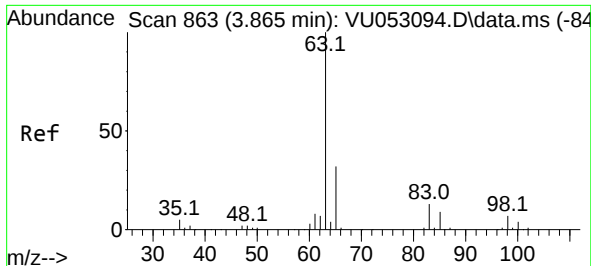
Ion Ratio Lower Upper

73 100

43 18.9 14.1 21.1

57 15.2 17.4 26.0#





#19

1,1-Dichloroethane

Concen: 2.098 ug/L

RT: 3.865 min Scan# 863

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

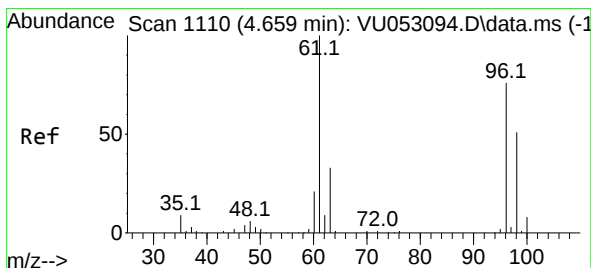
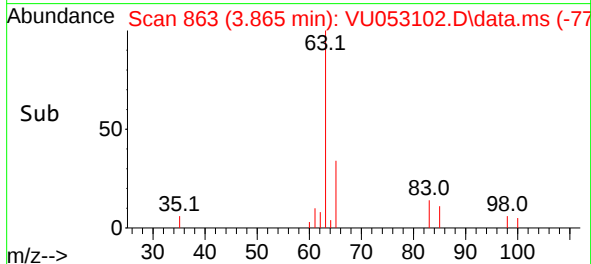
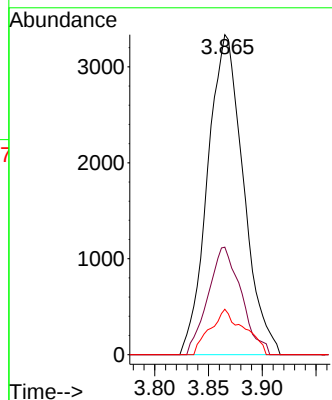
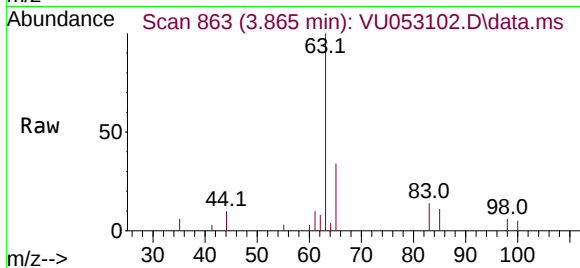
Tgt Ion: 63 Resp: 7699

Ion Ratio Lower Upper

63 100

65 33.6 22.4 41.6

83 14.2 9.4 17.4



#20

cis-1,2-Dichloroethene

Concen: 2.016 ug/L

RT: 4.663 min Scan# 1111

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

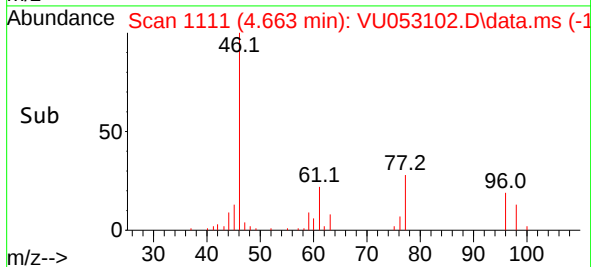
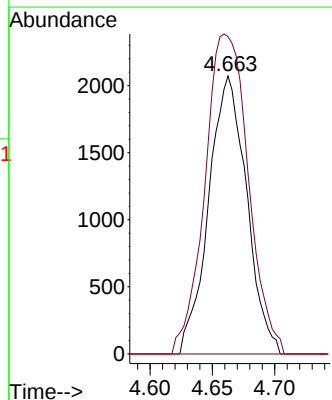
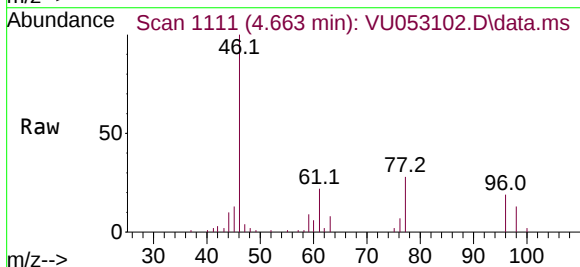
Tgt Ion: 96 Resp: 4391

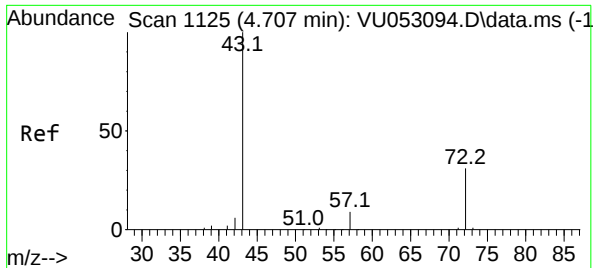
Ion Ratio Lower Upper

96 100

61 114.2 91.9 170.7

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 4.306 ug/L

RT: 4.720 min Scan# 1129

Delta R.T. 0.013 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

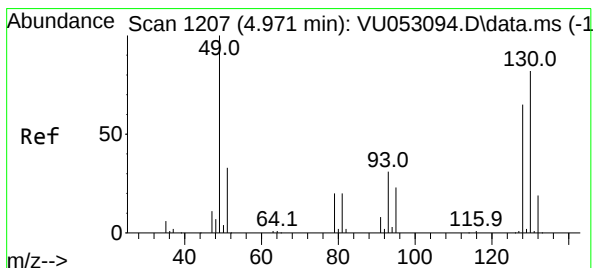
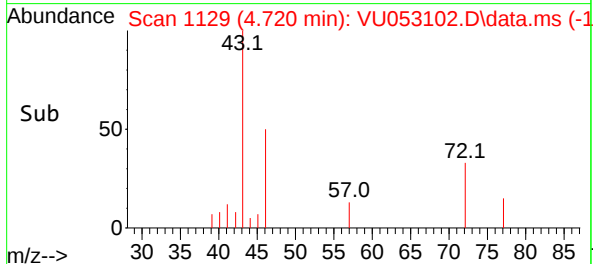
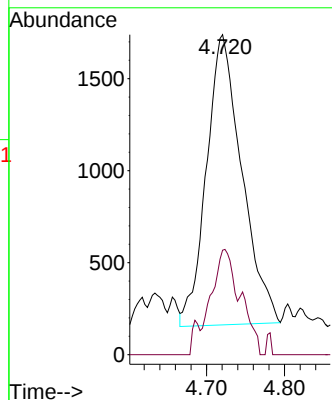
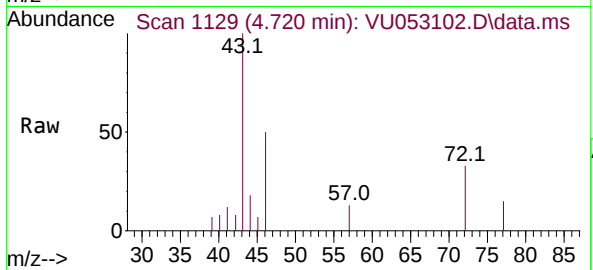
MDL-WATER-QT1-2023-02

Tgt Ion: 43 Resp: 4976

Ion Ratio Lower Upper

43 100

72 22.7 16.6 49.7



#23

Bromochloromethane

Concen: 2.221 ug/L

RT: 4.971 min Scan# 1207

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Tgt Ion:128 Resp: 2271

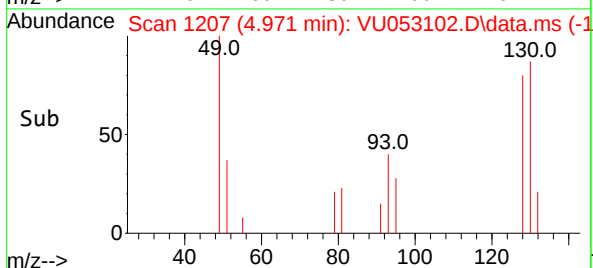
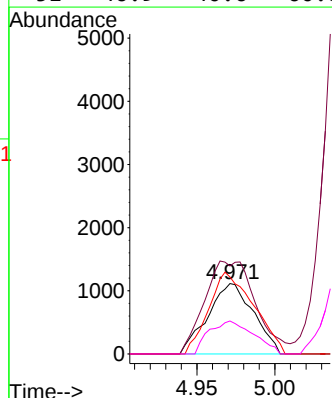
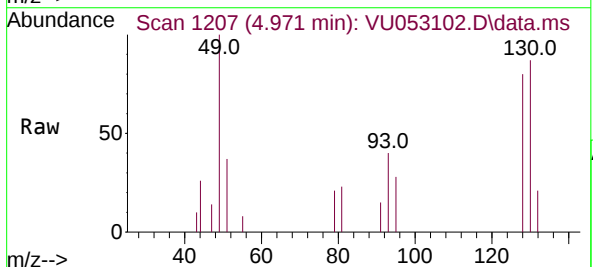
Ion Ratio Lower Upper

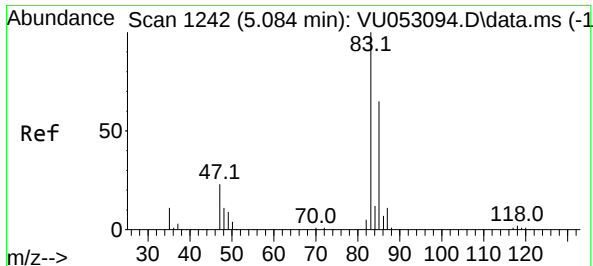
128 100

49 125.0 107.6 199.8

130 109.3 87.9 163.3

51 46.9 40.6 60.8





#25

Chloroform

Concen: 2.449 ug/L

RT: 5.077 min Scan# 1

Delta R.T. -0.006 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

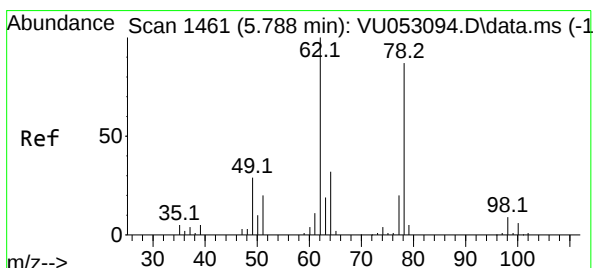
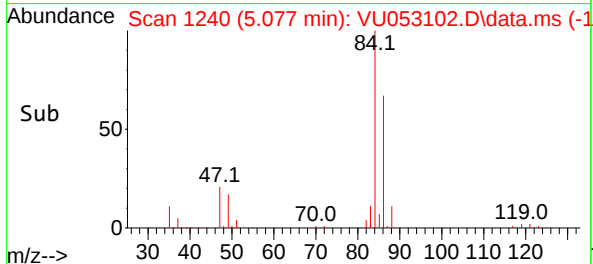
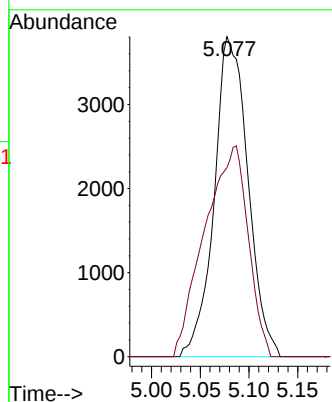
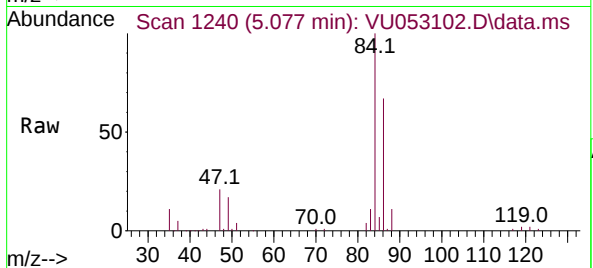
MDL-WATER-QT1-2023-02

Tgt Ion: 83 Resp: 9158

Ion Ratio Lower Upper

83 100

85 59.0 45.8 85.0



#27

1,2-Dichloroethane

Concen: 2.151 ug/L

RT: 5.791 min Scan# 1462

Delta R.T. 0.003 min

Lab File: VU053102.D

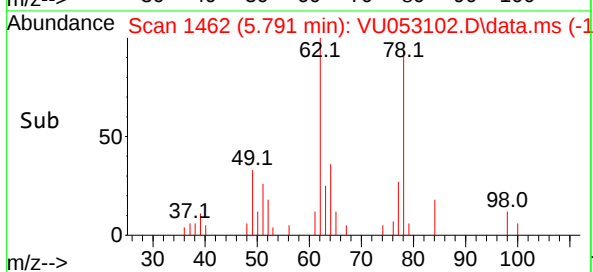
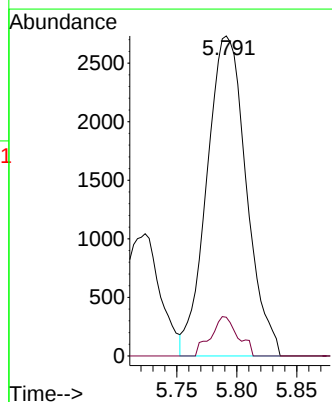
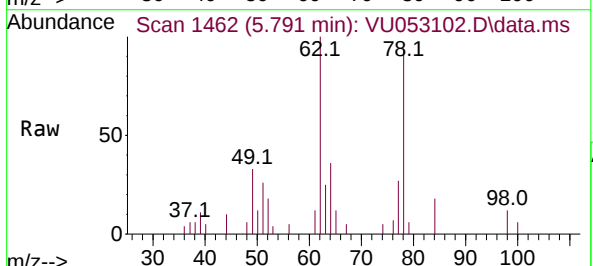
Acq: 14 Feb 2023 18:25

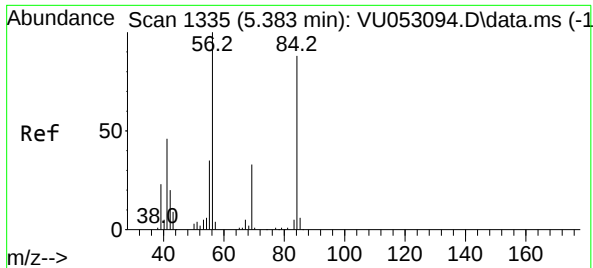
Tgt Ion: 62 Resp: 6243

Ion Ratio Lower Upper

62 100

98 12.1 7.2 10.8#





#29

Cyclohexane

Concen: 2.101 ug/L

RT: 5.380 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

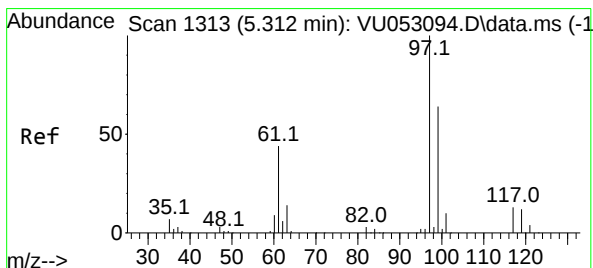
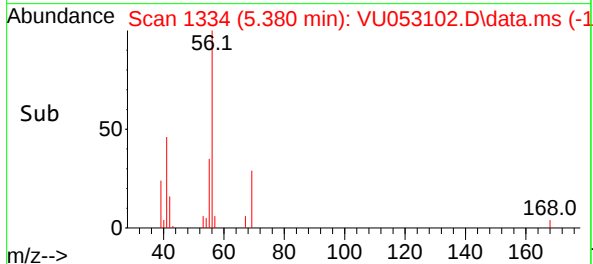
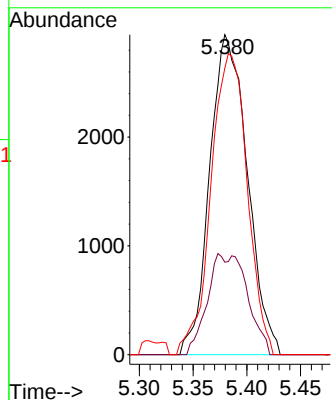
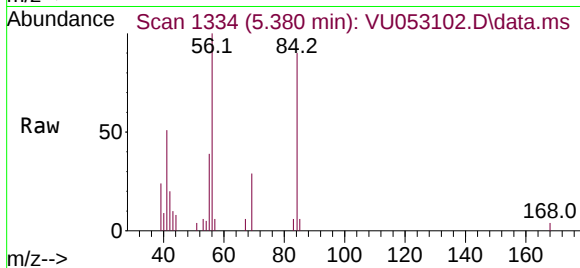
Tgt Ion: 56 Resp: 7157

Ion Ratio Lower Upper

56 100

69 15.6 25.9 38.9#

84 90.7 70.7 106.1



#30

1,1,1-Trichloroethane

Concen: 2.075 ug/L

RT: 5.315 min Scan# 1314

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

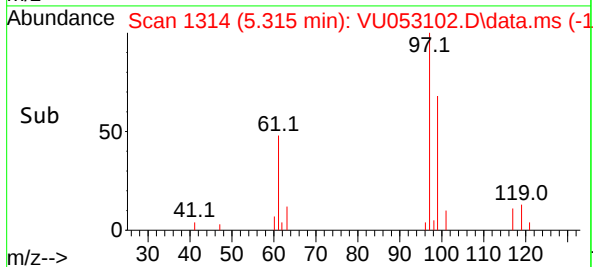
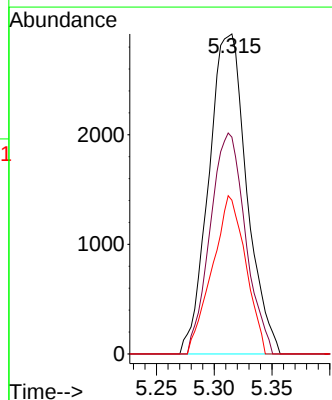
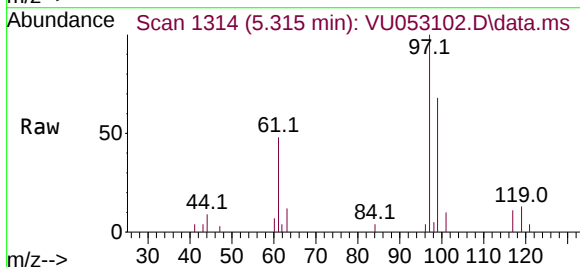
Tgt Ion: 97 Resp: 6685

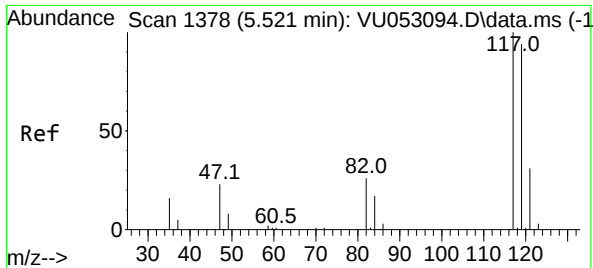
Ion Ratio Lower Upper

97 100

99 64.0 51.3 76.9

61 43.4 35.3 52.9

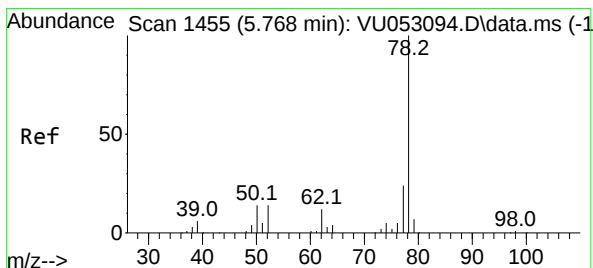
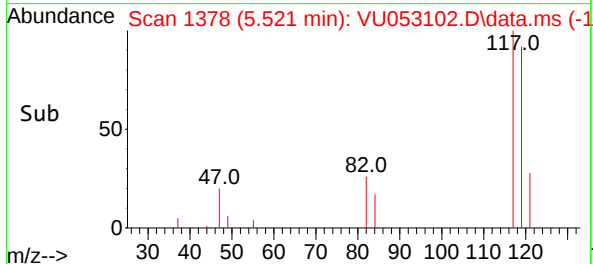
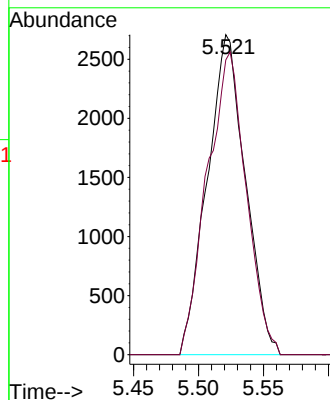
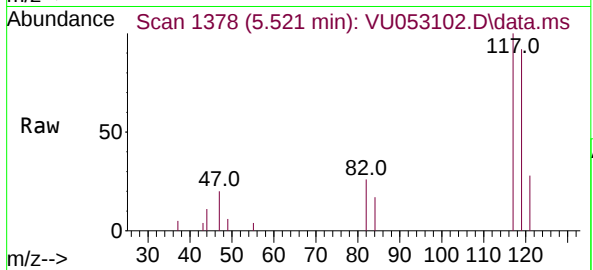




#31
Carbon tetrachloride
Concen: 2.018 ug/L
RT: 5.521 min Scan# 117
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

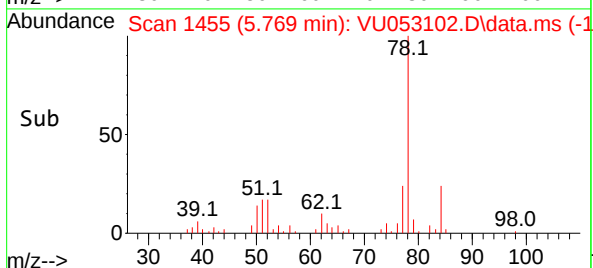
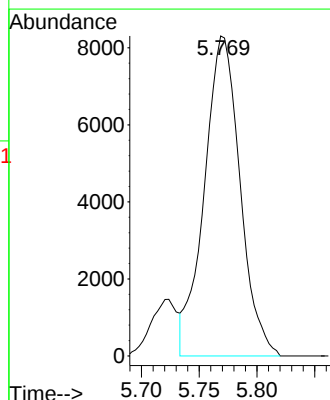
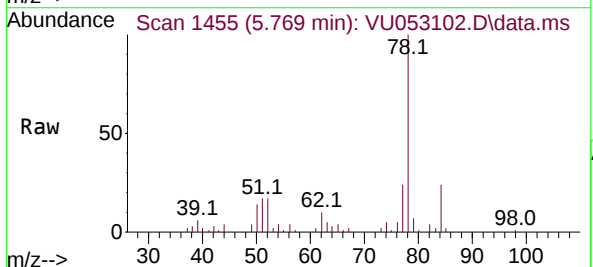
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT1-2023-02

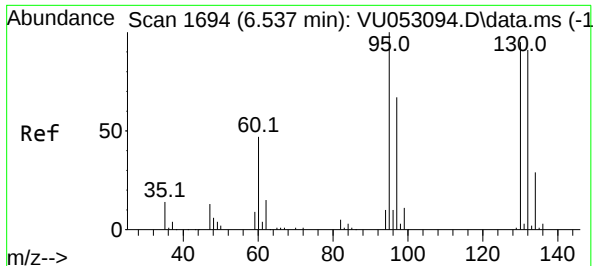
Tgt Ion:117 Resp: 5525
Ion Ratio Lower Upper
117 100
119 96.5 75.9 113.9



#33
Benzene
Concen: 2.203 ug/L
RT: 5.769 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Tgt Ion: 78 Resp: 17870



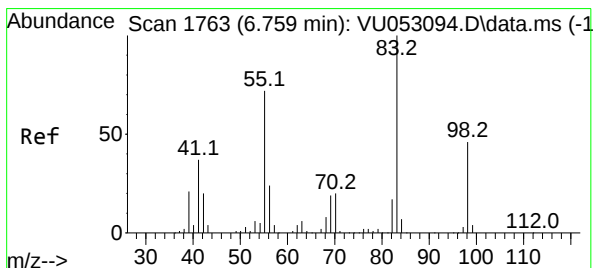
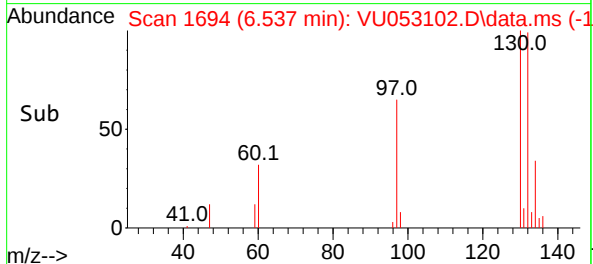
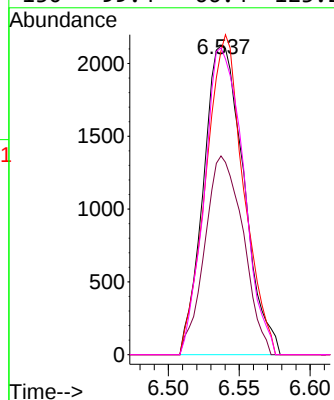
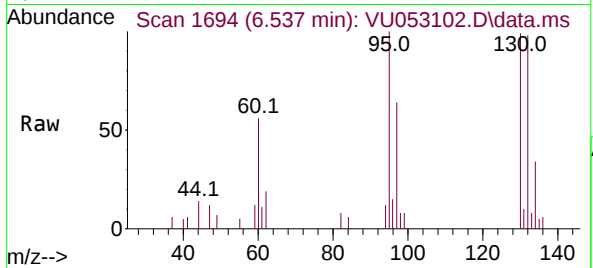


#34
Trichloroethene
Concen: 1.996 ug/L
RT: 6.537 min Scan# 1694
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

Tgt Ion: 95 Resp: 4200

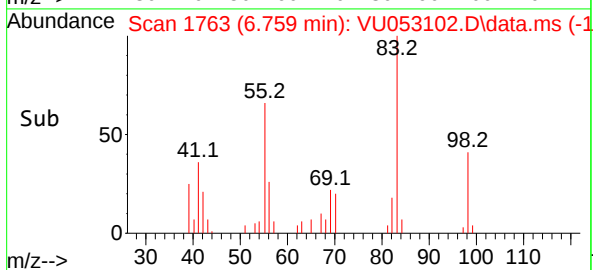
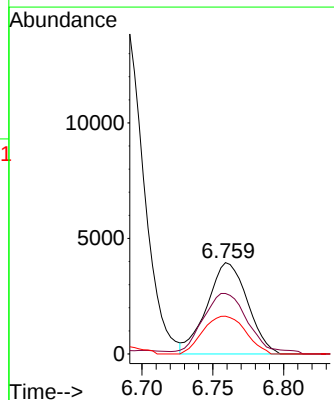
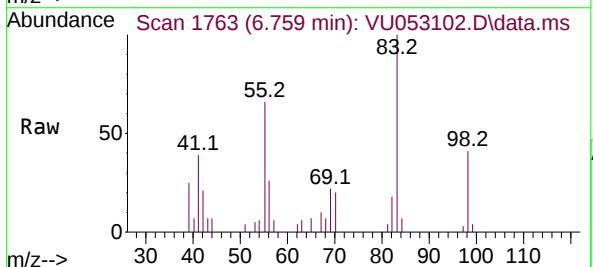
Ion	Ratio	Lower	Upper
95	100		
97	64.4	47.1	87.5
132	98.4	63.6	118.2
130	99.4	66.4	123.2

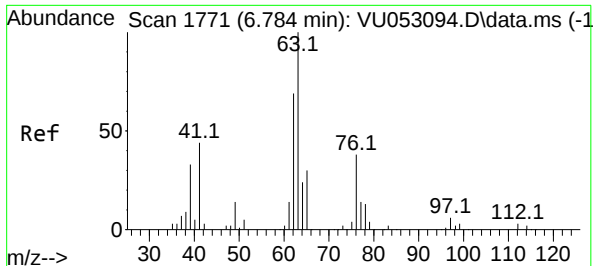


#35
Methylcyclohexane
Concen: 2.149 ug/L
RT: 6.759 min Scan# 1763
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Tgt Ion: 83 Resp: 7832

Ion	Ratio	Lower	Upper
83	100		
55	73.9	57.4	86.2
98	43.5	36.1	54.1





#37

1,2-Dichloropropane

Concen: 2.137 ug/L

RT: 6.788 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

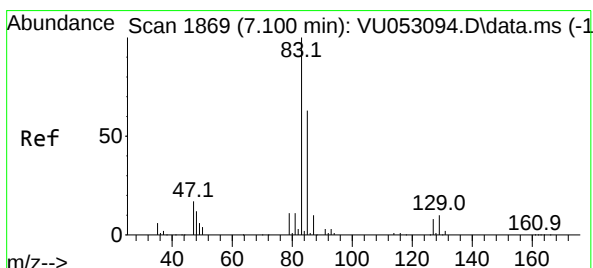
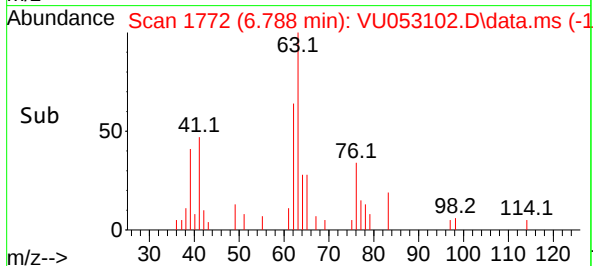
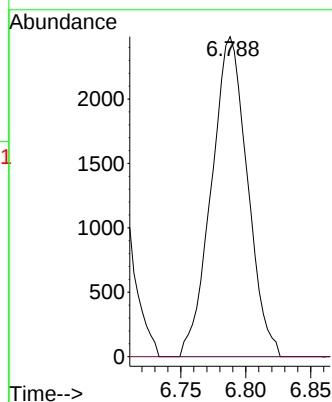
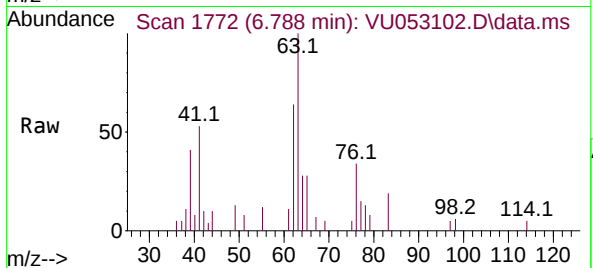
MDL-WATER-QT1-2023-02

Tgt Ion: 63 Resp: 4779

Ion Ratio Lower Upper

63 100

112 0.0 2.7 4.1#



#38

Bromodichloromethane

Concen: 2.117 ug/L

RT: 7.103 min Scan# 1870

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

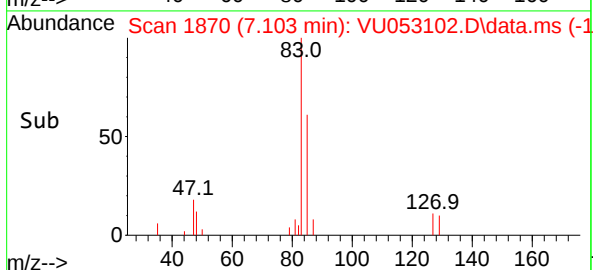
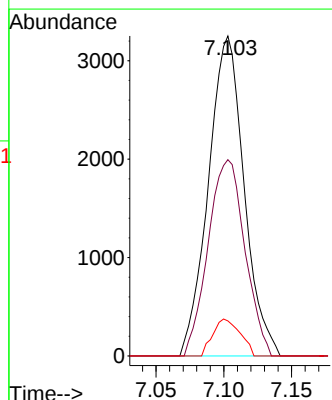
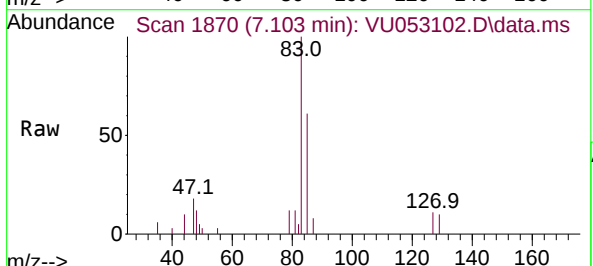
Tgt Ion: 83 Resp: 5955

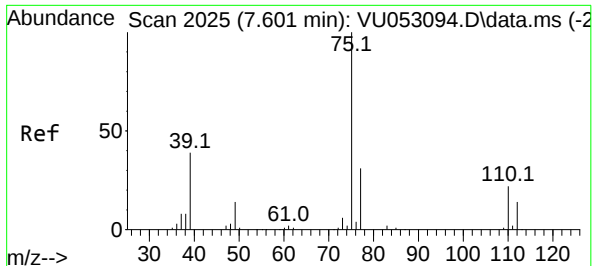
Ion Ratio Lower Upper

83 100

85 61.3 44.2 82.0

127 10.9 6.2 9.2#





#39

cis-1,3-Dichloropropene

Concen: 2.113 ug/L

RT: 7.605 min Scan# 2025

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

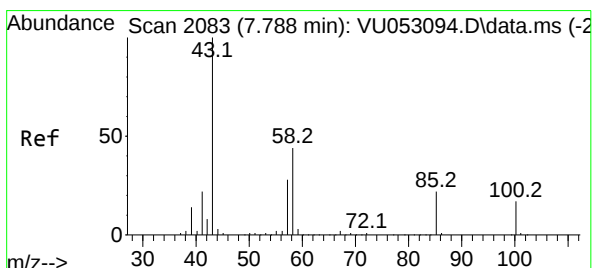
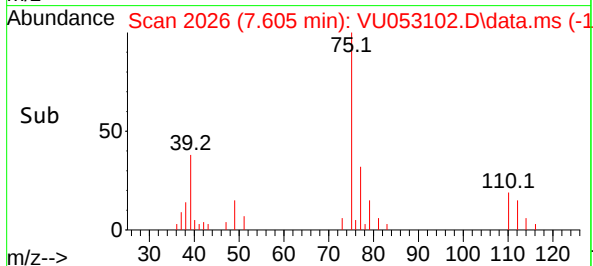
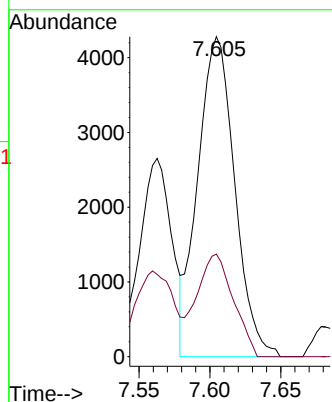
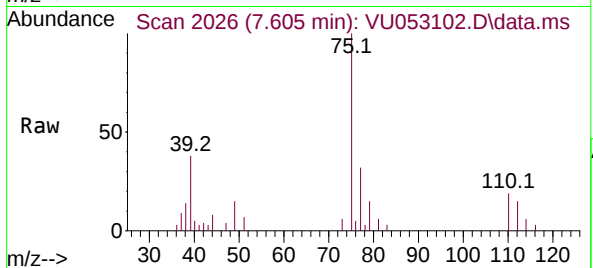
MDL-WATER-QT1-2023-02

Tgt Ion: 75 Resp: 7760

Ion Ratio Lower Upper

75 100

77 32.0 22.2 41.2



#40

4-Methyl-2-pentanone

Concen: 4.164 ug/L

RT: 7.788 min Scan# 2083

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

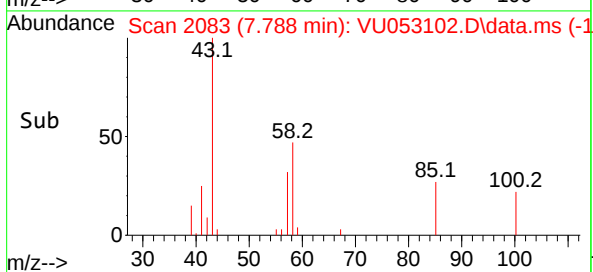
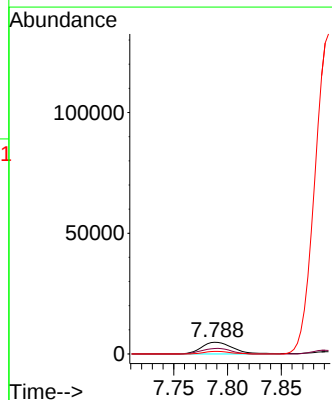
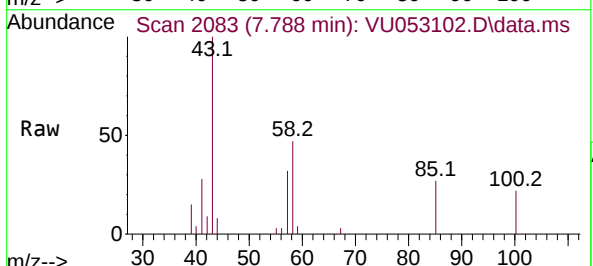
Tgt Ion: 43 Resp: 9918

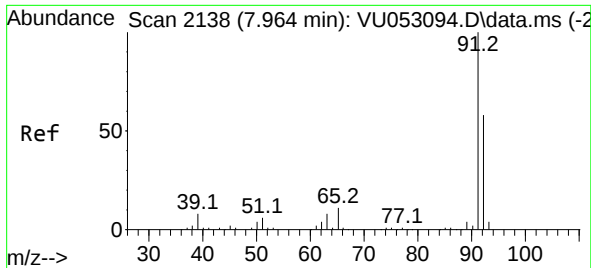
Ion Ratio Lower Upper

43 100

58 44.0 35.9 53.9

100 17.9 13.7 20.5





#42

Toluene

Concen: 2.067 ug/L

RT: 7.968 min Scan# 2139

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

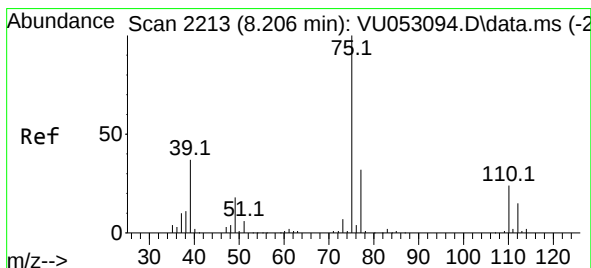
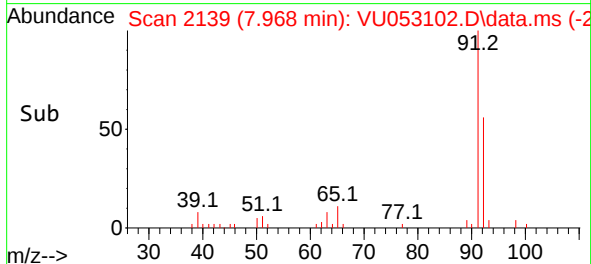
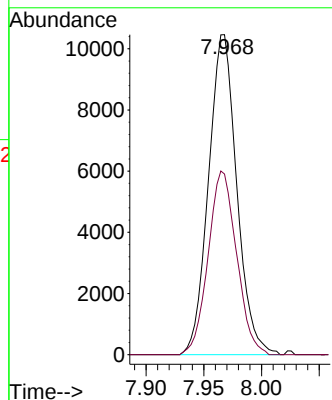
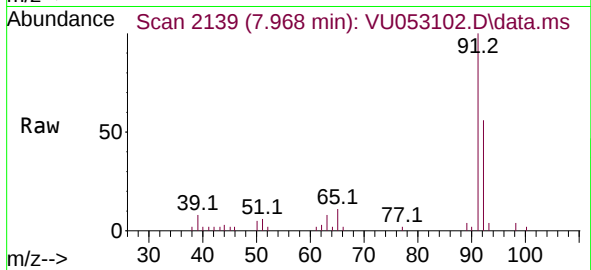
MDL-WATER-QT1-2023-02

Tgt Ion: 91 Resp: 17834

Ion Ratio Lower Upper

91 100

92 56.5 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 1.994 ug/L

RT: 8.209 min Scan# 2214

Delta R.T. 0.003 min

Lab File: VU053102.D

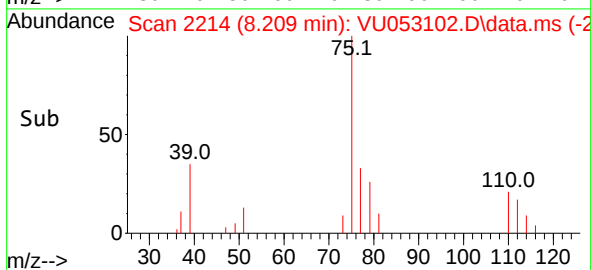
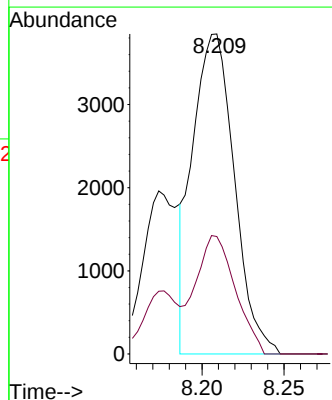
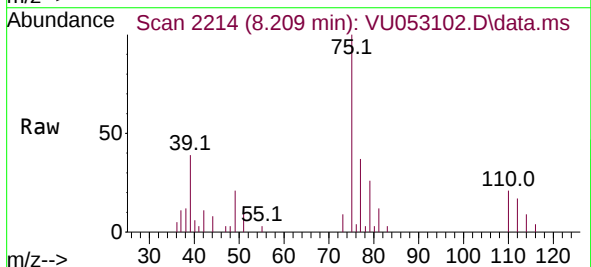
Acq: 14 Feb 2023 18:25

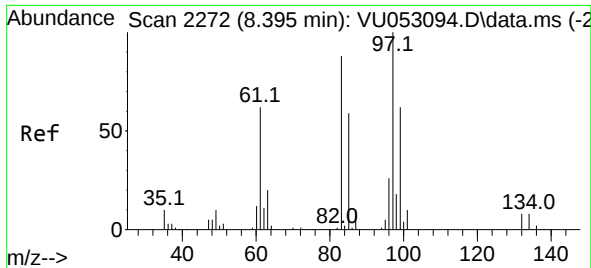
Tgt Ion: 75 Resp: 6785

Ion Ratio Lower Upper

75 100

77 36.7 22.2 41.2

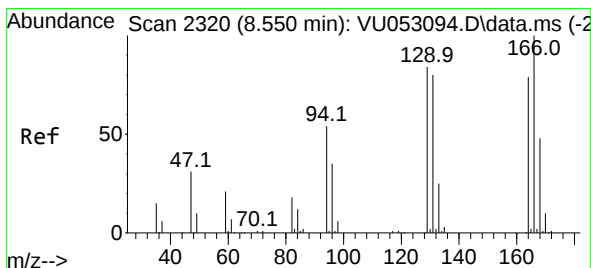
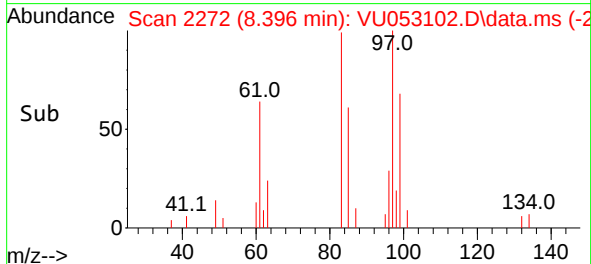
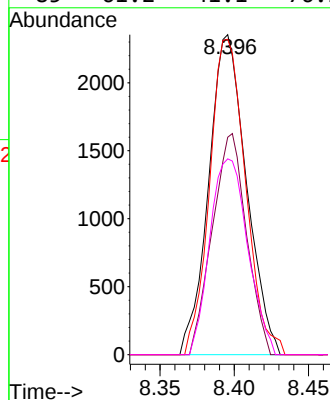
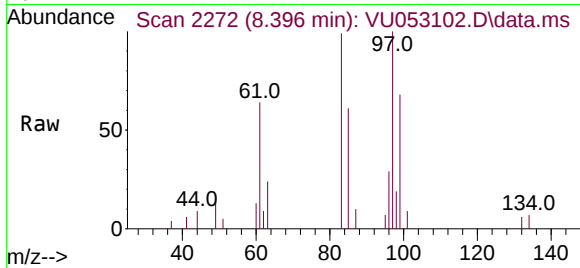




#45
1,1,2-Trichloroethane
Concen: 2.051 ug/L
RT: 8.396 min Scan# 21
Delta R.T. 0.001 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

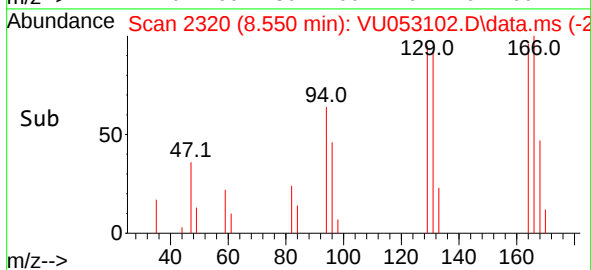
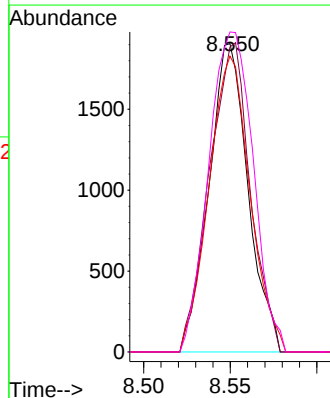
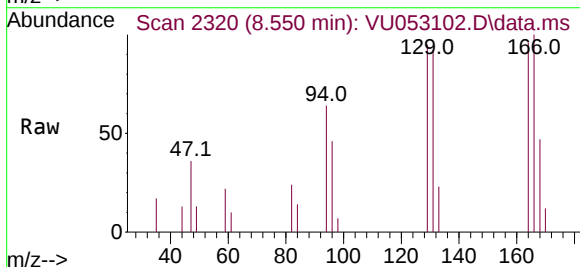
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

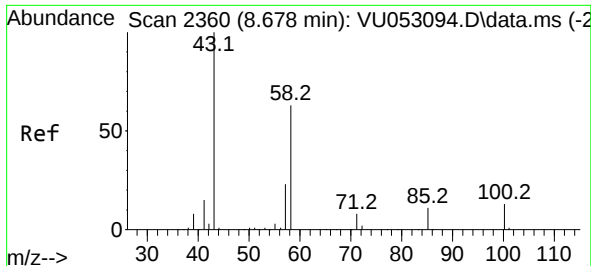
Tgt Ion: 97	Resp: 4161
Ion Ratio	Lower Upper
97 100	
99 68.0	43.7 81.1
83 98.6	61.7 114.5
85 61.2	41.1 76.3



#46
Tetrachloroethene
Concen: 2.153 ug/L
RT: 8.550 min Scan# 2320
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Tgt	Ion:164	Resp:	3001
Ion	Ratio	Lower	Upper
164	100		
129	98.9	74.8	139.0
131	96.0	70.7	131.3
166	103.8	88.6	164.6





#48

2-Hexanone

Concen: 5.887 ug/L

RT: 8.682 min Scan# 2106

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 43 Resp: 11065

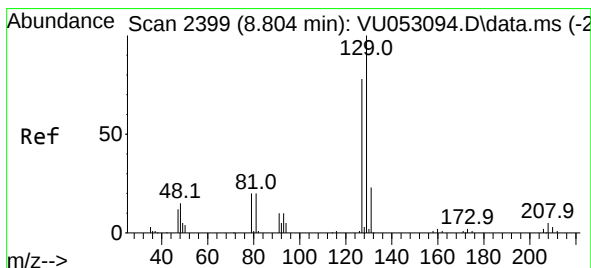
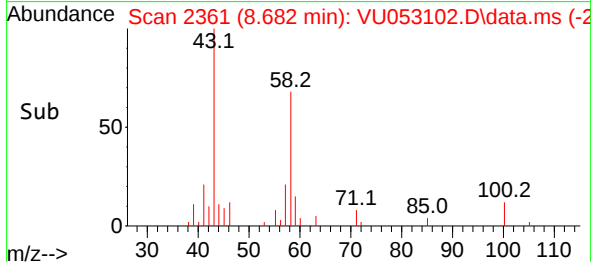
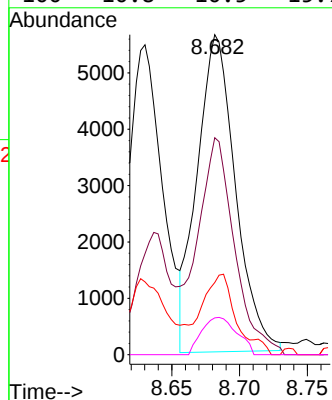
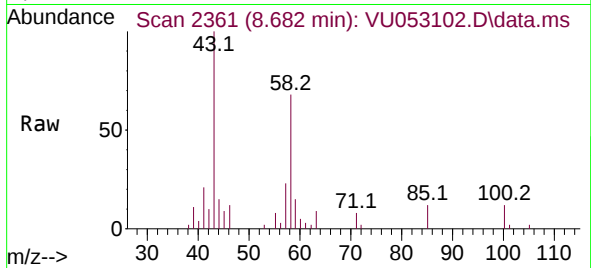
Ion Ratio Lower Upper

43 100

58 63.4 50.0 75.0

57 15.9 17.7 26.5#

100 10.8 10.5 15.7



#49

Dibromochloromethane

Concen: 2.099 ug/L

RT: 8.807 min Scan# 2400

Delta R.T. 0.003 min

Lab File: VU053102.D

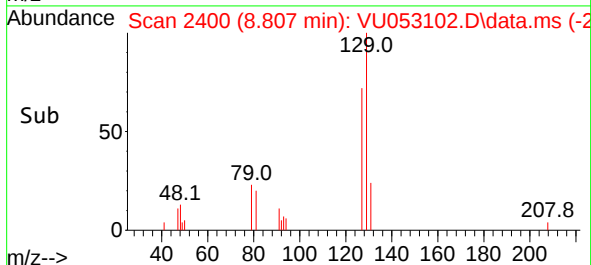
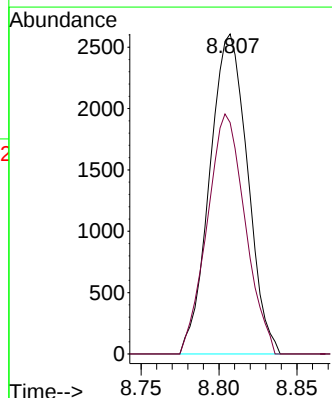
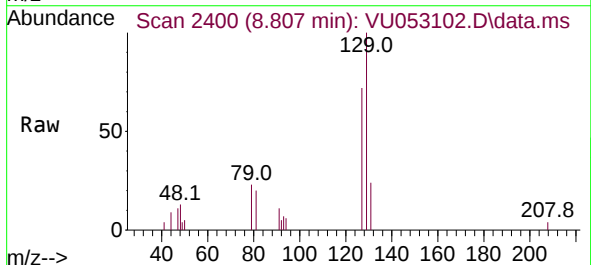
Acq: 14 Feb 2023 18:25

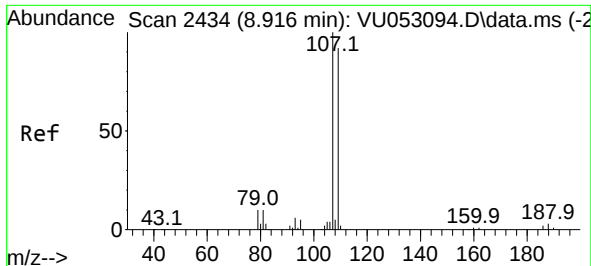
Tgt Ion:129 Resp: 4397

Ion Ratio Lower Upper

129 100

127 72.3 54.9 101.9





#50

1,2-Dibromoethane

Concen: 2.102 ug/L

RT: 8.923 min Scan# 2436

Delta R.T. 0.007 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

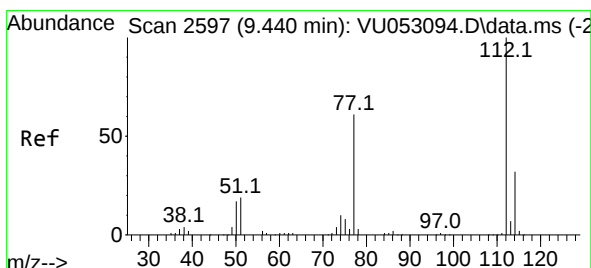
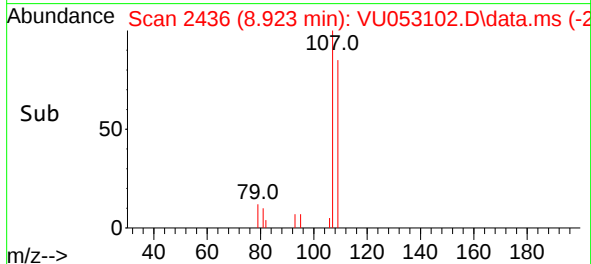
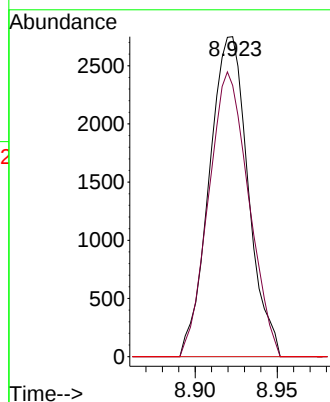
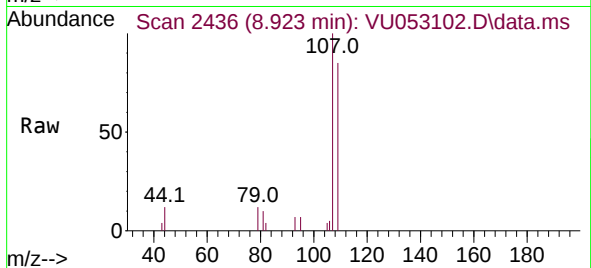
Tgt Ion:107 Resp: 4529

Ion Ratio Lower Upper

107 100

109 84.8 64.5 119.9

188 0.0 2.2 3.4#



#51

Chlorobenzene

Concen: 2.084 ug/L

RT: 9.444 min Scan# 2598

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

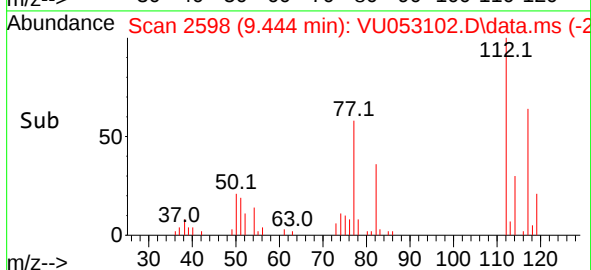
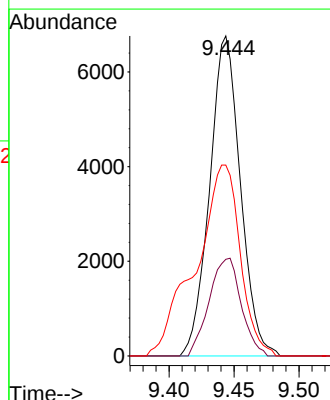
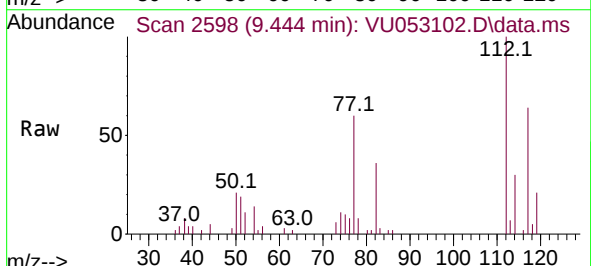
Tgt Ion:112 Resp: 11136

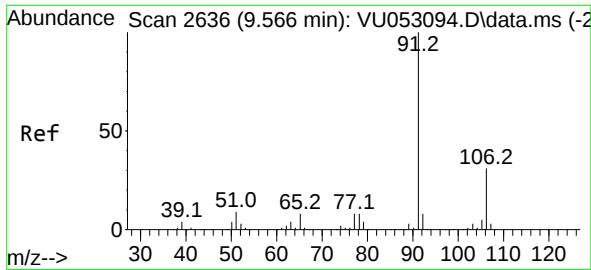
Ion Ratio Lower Upper

112 100

114 30.2 22.3 41.3

77 59.6 48.8 73.2

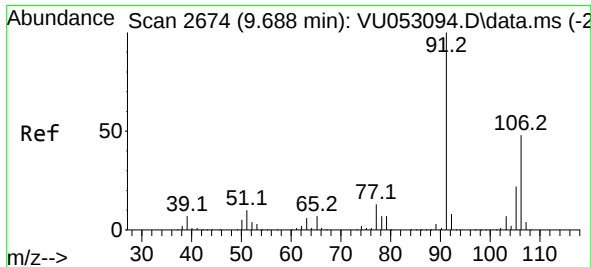
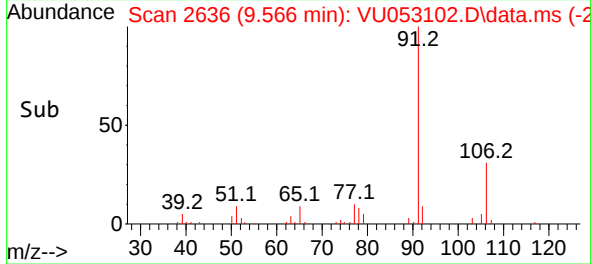
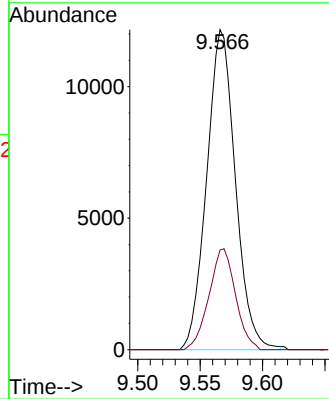
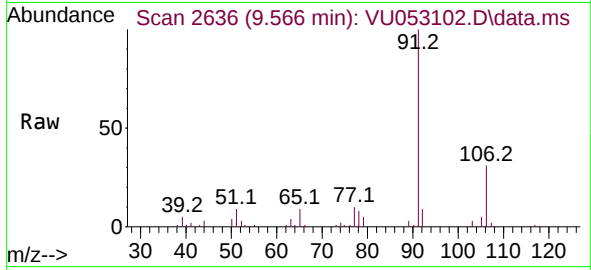




#52
Ethylbenzene
Concen: 2.024 ug/L
RT: 9.566 min Scan# 2636
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

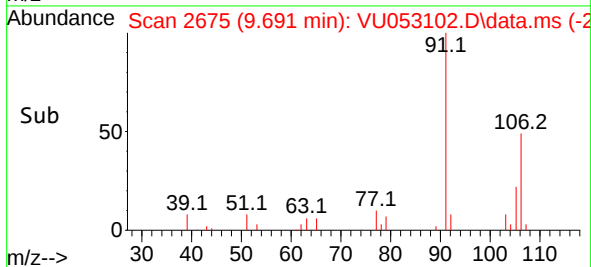
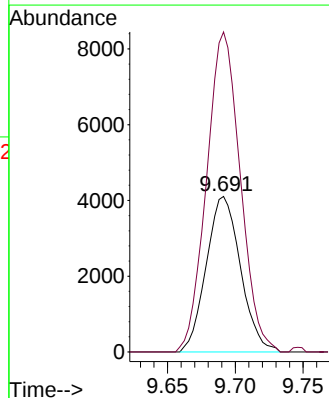
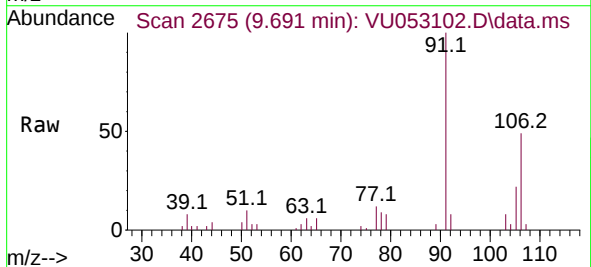
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

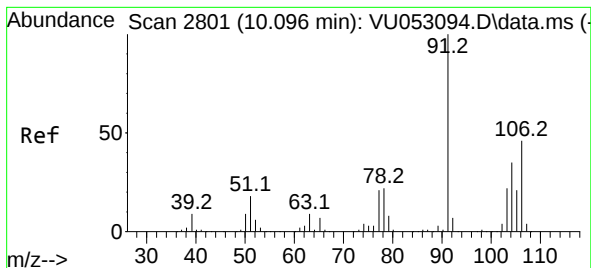
Tgt Ion: 91 Resp: 19474
Ion Ratio Lower Upper
91 100
106 31.2 21.5 39.9



#53
m,p-Xylene
Concen: 1.996 ug/L
RT: 9.691 min Scan# 2675
Delta R.T. 0.003 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Tgt Ion: 106 Resp: 7220
Ion Ratio Lower Upper
106 100
91 205.7 145.6 270.4





#54

o-xylene

Concen: 1.995 ug/L

RT: 10.096 min Scan# 2801

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

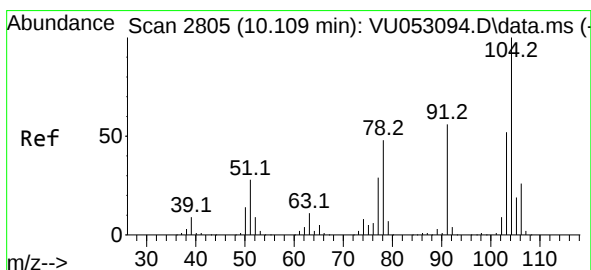
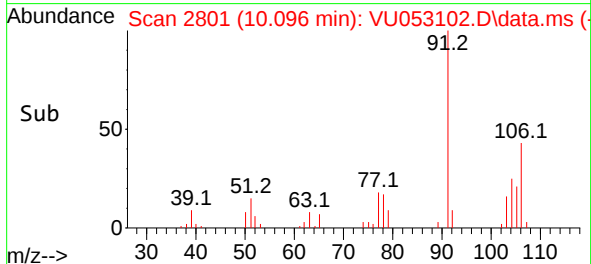
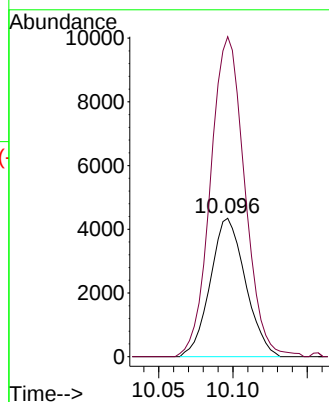
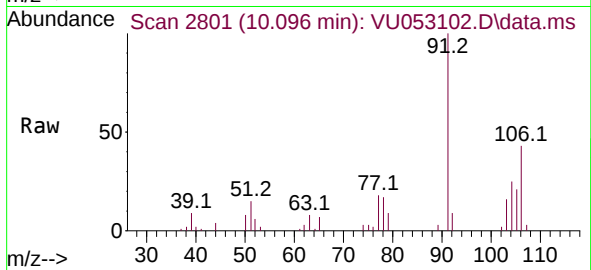
MDL-WATER-QT1-2023-02

Tgt Ion:106 Resp: 7157

Ion Ratio Lower Upper

106 100

91 231.3 152.8 283.8



#55

Styrene

Concen: 1.938 ug/L

RT: 10.112 min Scan# 2806

Delta R.T. 0.003 min

Lab File: VU053102.D

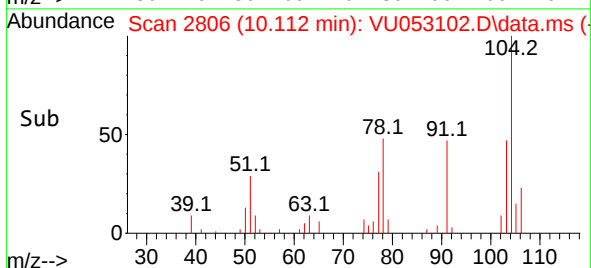
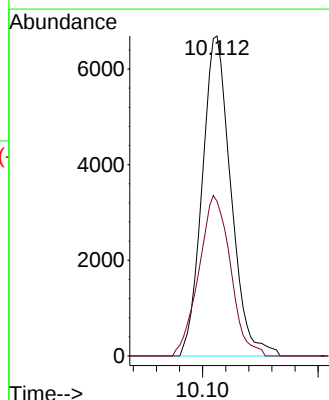
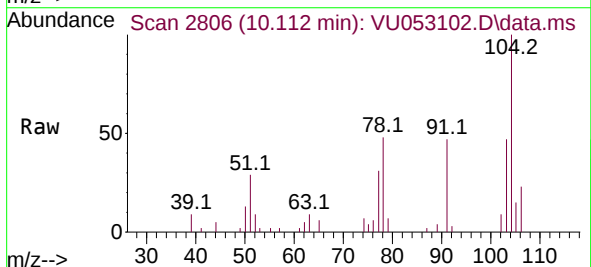
Acq: 14 Feb 2023 18:25

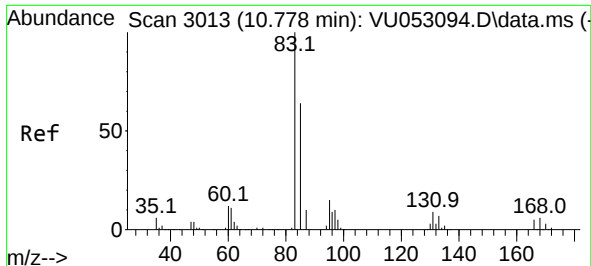
Tgt Ion:104 Resp: 11531

Ion Ratio Lower Upper

104 100

78 48.3 33.6 62.4





#57

1,1,2,2-Tetrachloroethane

Concen: 2.245 ug/L

RT: 10.778 min Scan# 3013

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

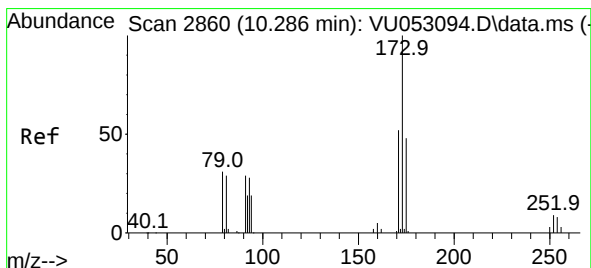
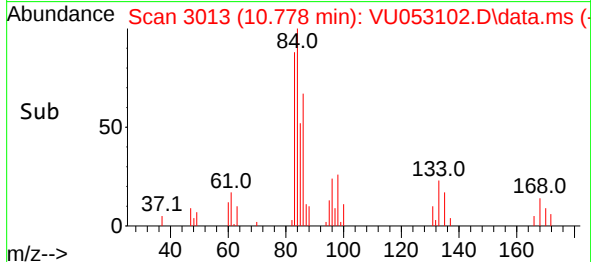
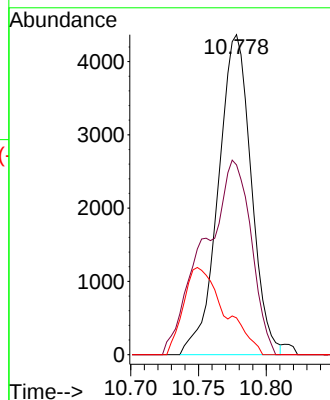
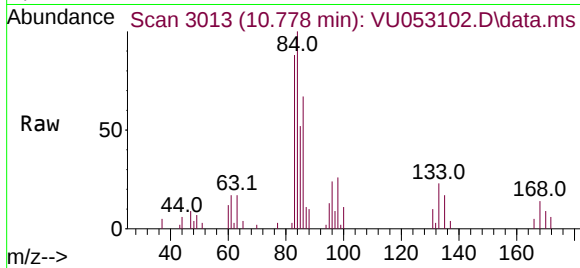
Tgt Ion: 83 Resp: 7385

Ion Ratio Lower Upper

83 100

85 59.3 44.7 82.9

131 11.5 7.2 10.8#



#59

Bromoform

Concen: 1.951 ug/L

RT: 10.286 min Scan# 2860

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

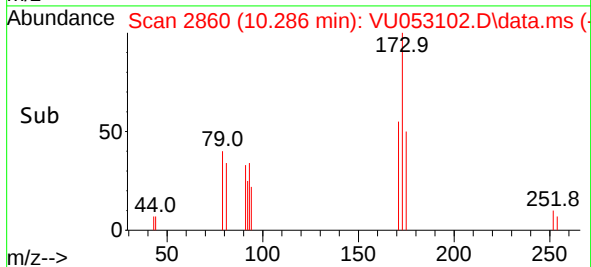
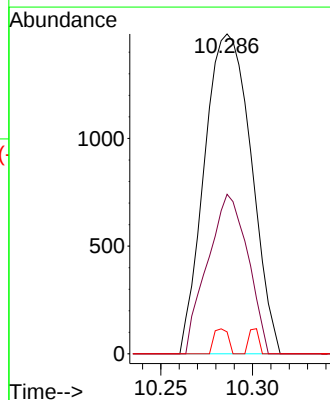
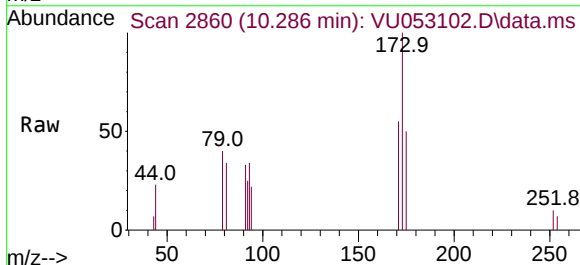
Tgt Ion: 173 Resp: 2639

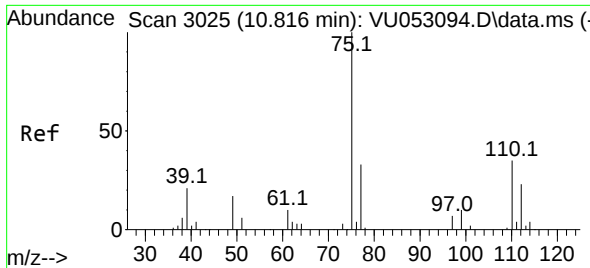
Ion Ratio Lower Upper

173 100

175 42.8 38.8 58.2

254 2.4 6.4 9.6#

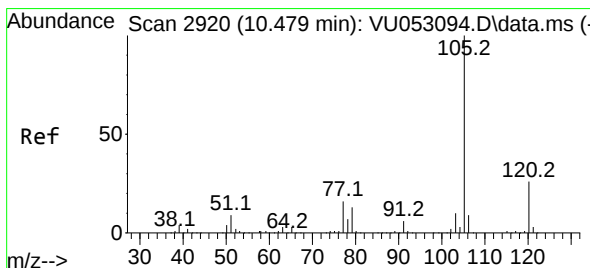
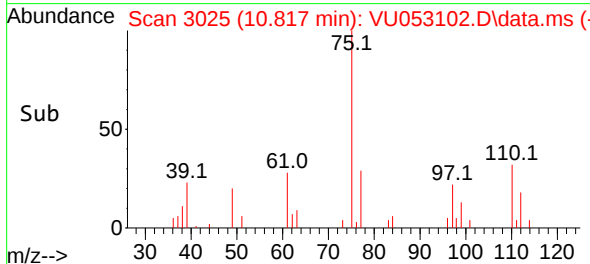
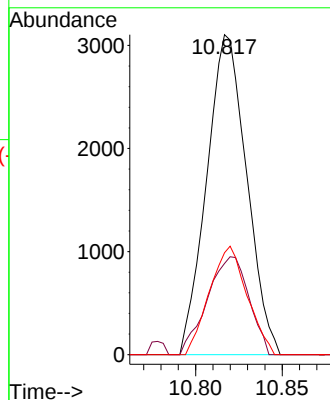
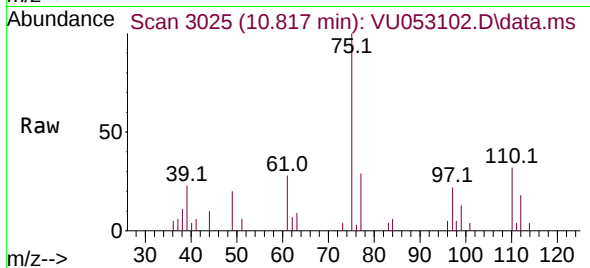




#60
1,2,3-Trichloropropane
Concen: 2.171 ug/L
RT: 10.817 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

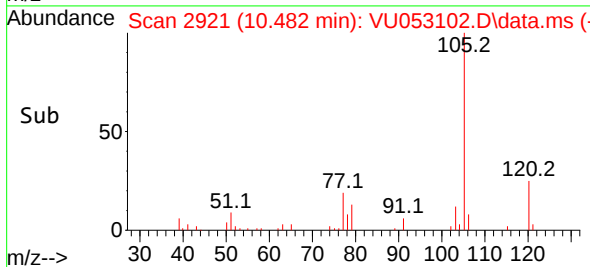
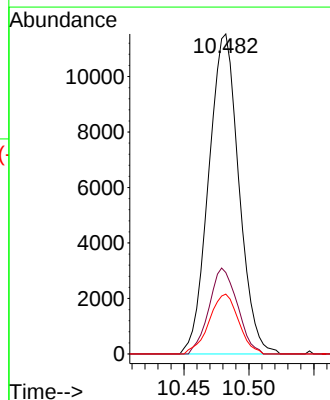
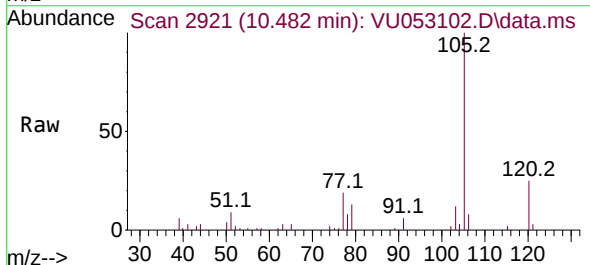
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

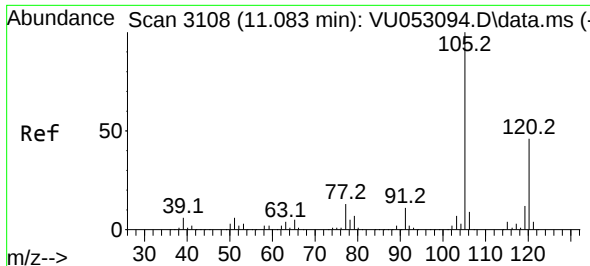
Tgt Ion:	75	Resp:	4981
Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.6	39.8
110	31.9	28.6	42.8



#61
Isopropylbenzene
Concen: 2.124 ug/L
RT: 10.482 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Tgt Ion:	105	Resp:	18633
Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.8	31.2
77	18.3	12.8	19.2





#62

1,3,5-Trimethylbenzene

Concen: 2.061 ug/L

RT: 11.084 min Scan# 3108

Delta R.T. 0.000 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

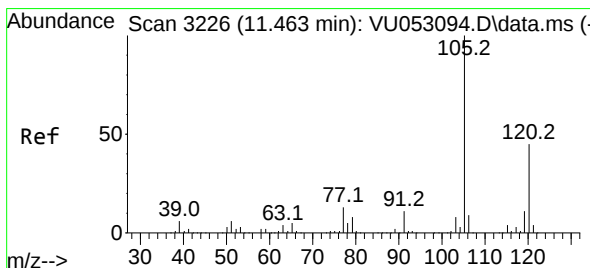
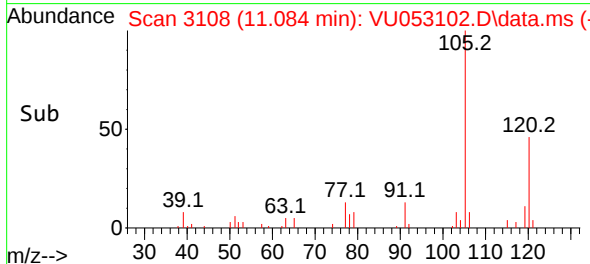
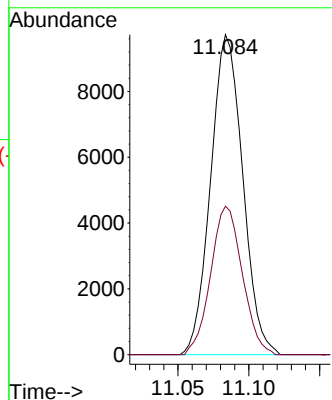
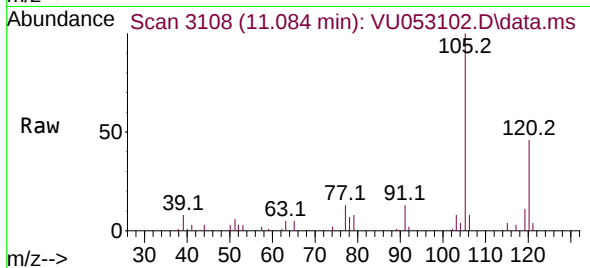
MDL-WATER-QT1-2023-02

Tgt Ion:105 Resp: 15310

Ion Ratio Lower Upper

105 100

120 45.8 37.2 55.8



#63

1,2,4-Trimethylbenzene

Concen: 2.072 ug/L

RT: 11.463 min Scan# 3226

Delta R.T. 0.000 min

Lab File: VU053102.D

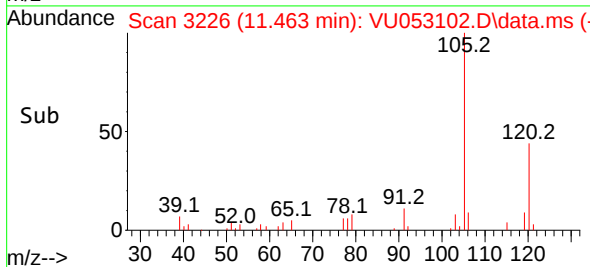
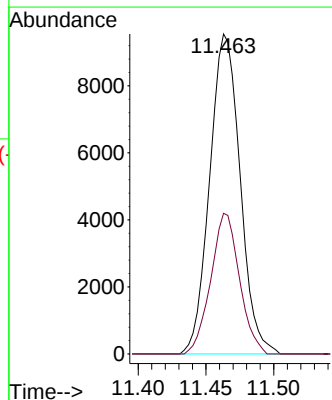
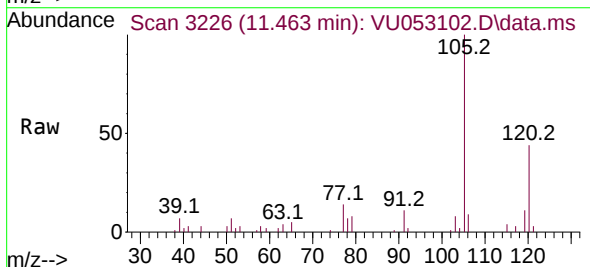
Acq: 14 Feb 2023 18:25

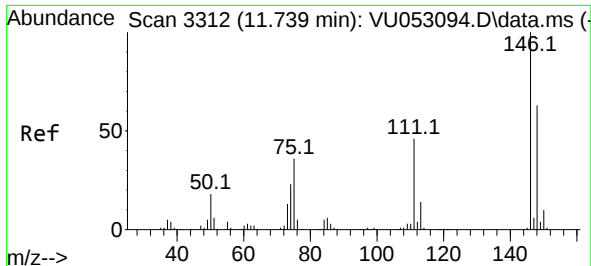
Tgt Ion:105 Resp: 14901

Ion Ratio Lower Upper

105 100

120 41.4 35.4 53.2

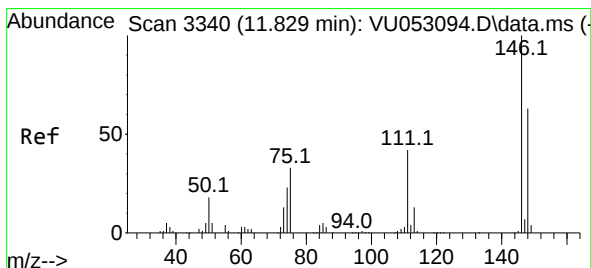
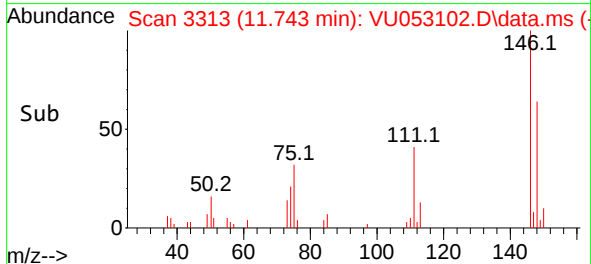
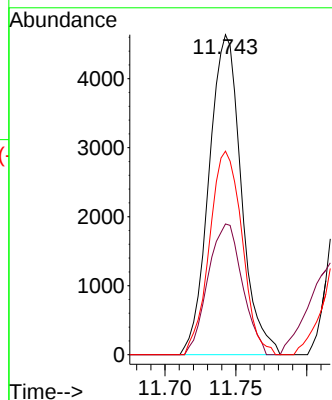
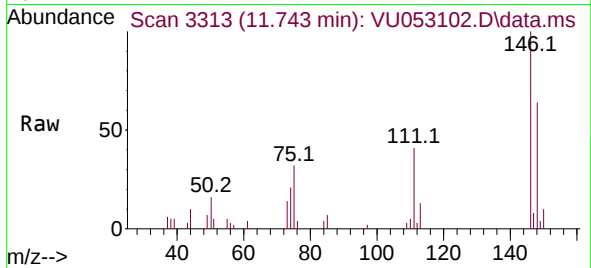




#64
1,3-Dichlorobenzene
Concen: 2.047 ug/L
RT: 11.743 min Scan# 3312
Delta R.T. 0.003 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

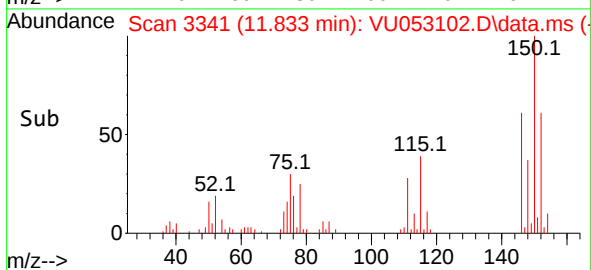
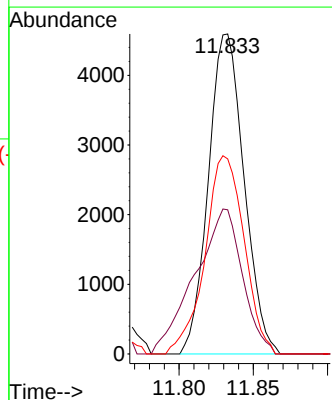
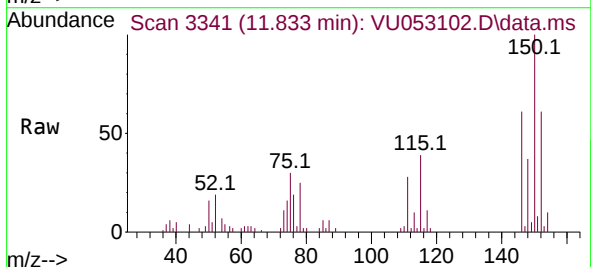
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

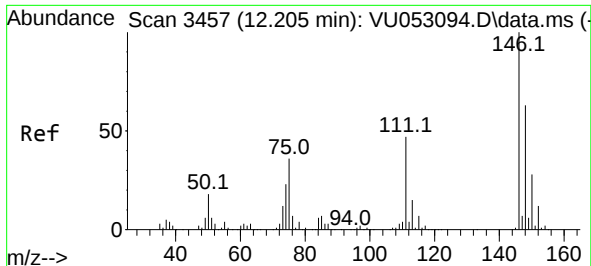
Tgt Ion:146 Resp: 7356
Ion Ratio Lower Upper
146 100
111 40.8 32.1 59.5
148 63.6 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 2.105 ug/L
RT: 11.833 min Scan# 3341
Delta R.T. 0.003 min
Lab File: VU053102.D
Acq: 14 Feb 2023 18:25

Tgt Ion:146 Resp: 7674
Ion Ratio Lower Upper
146 100
111 45.0 29.9 55.5
148 61.0 44.0 81.6





#67

1,2-Dichlorobenzene

Concen: 2.180 ug/L

RT: 12.209 min Scan# 3457

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

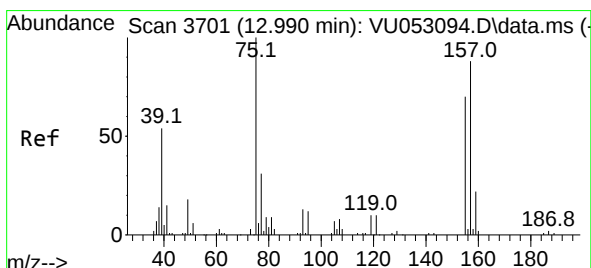
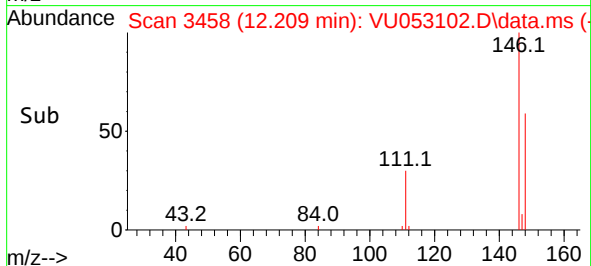
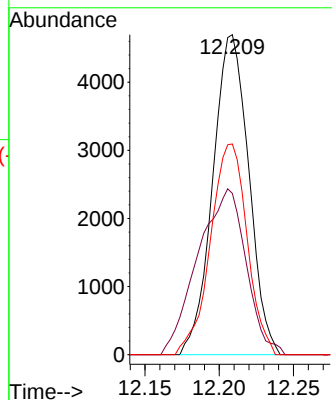
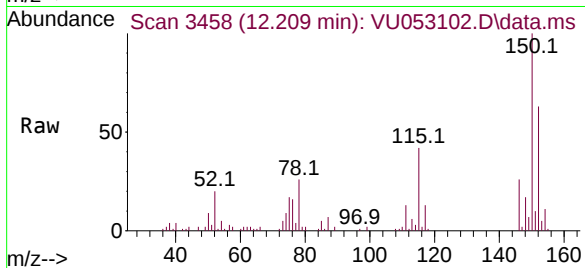
Tgt Ion:146 Resp: 7918

Ion Ratio Lower Upper

146 100

111 50.4 37.8 56.6

148 65.9 50.4 75.6



#68

1,2-Dibromo-3-chloropropane

Concen: 1.933 ug/L

RT: 12.993 min Scan# 3702

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

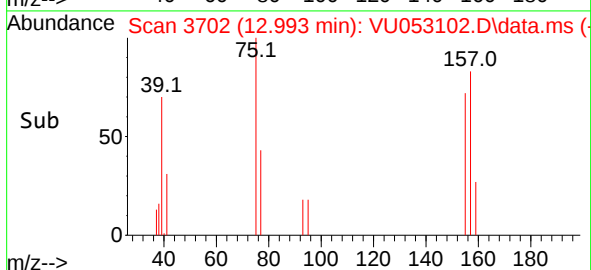
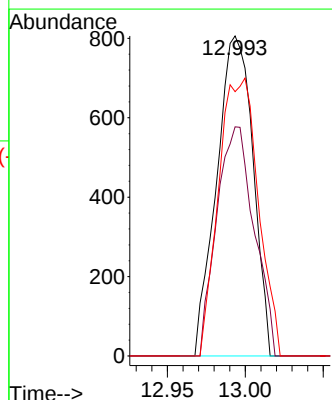
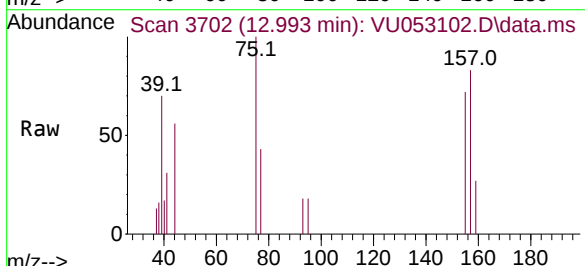
Tgt Ion: 75 Resp: 1307

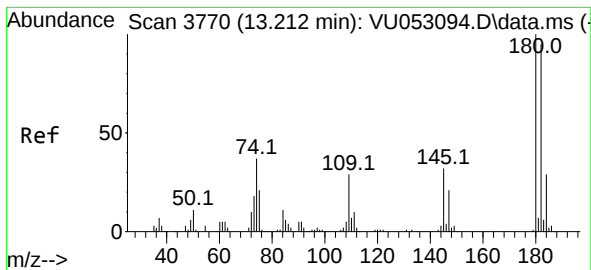
Ion Ratio Lower Upper

75 100

155 71.6 55.8 83.6

157 82.6 70.7 106.1





#69

1,3,5-Trichlorobenzene

Concen: 1.806 ug/L

RT: 13.218 min Scan# 31

Delta R.T. 0.007 min

Lab File: VU053102.D

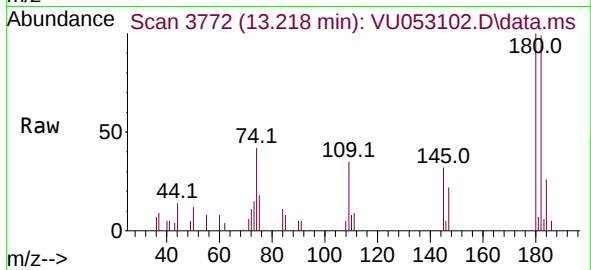
Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

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Tgt Ion:180 Resp: 4399

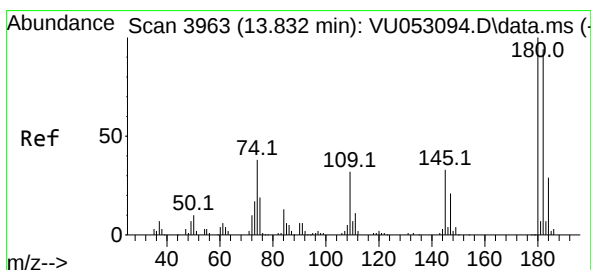
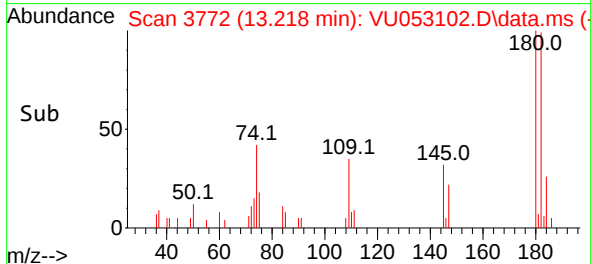
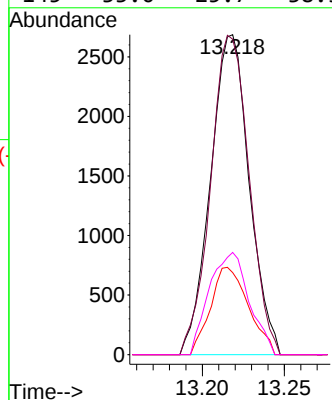
Ion Ratio Lower Upper

180 100

182 99.1 76.9 115.3

184 26.8 23.7 35.5

145 33.0 25.7 38.5



#70

1,2,4-trichlorobenzene

Concen: 1.657 ug/L

RT: 13.836 min Scan# 3964

Delta R.T. 0.003 min

Lab File: VU053102.D

Acq: 14 Feb 2023 18:25

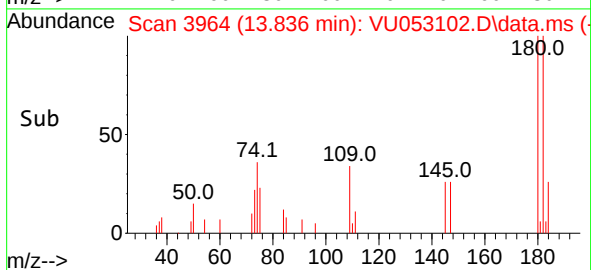
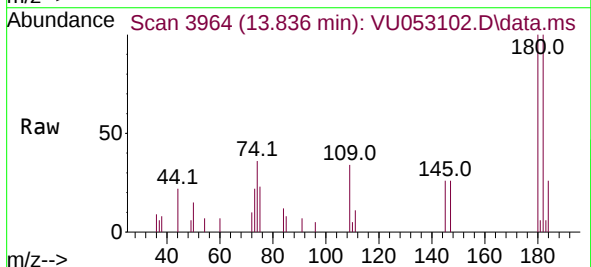
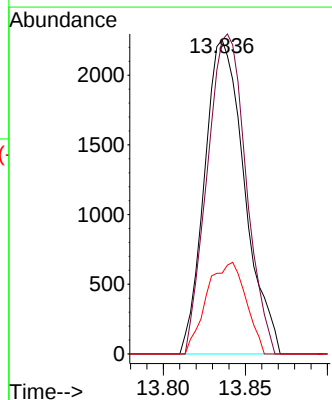
Tgt Ion:180 Resp: 3820

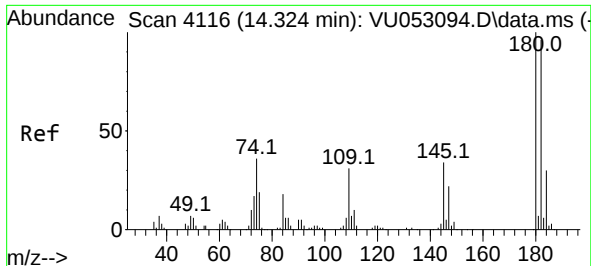
Ion Ratio Lower Upper

180 100

182 98.2 76.4 114.6

145 0.0 26.8 40.2#





#72

1,2,3-Trichlorobenzene

Concen: 1.825 ug/L

RT: 14.328 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU053102.D

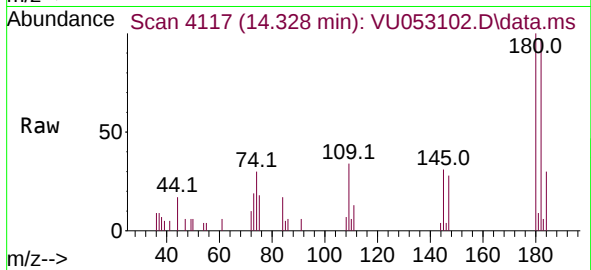
Acq: 14 Feb 2023 18:25

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02



Tgt Ion:180 Resp: 4224

Ion Ratio Lower Upper

180 100

182 96.9 75.4 113.2

145 32.9 28.2 42.2

