

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW071123\
 Data File : VW031681.D
 Acq On : 11 Jul 2023 16:06
 Operator : SY/MD
 Sample : 03573-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT3-2023-05

Quant Time: Jul 12 08:11:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM071123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 12 07:50:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	272369	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	283932	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	134254	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	127224	51.607	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	= 103.220%		
7) Chloroethane-d5	1.532	69	108444	60.788	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	= 121.580%		
11) 1,1-Dichloroethene-d2	2.060	65	63781	58.079	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 116.160%		
21) 2-Butanone-d5	3.793	46	169164	107.378	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	= 107.380%		
24) Chloroform-d	4.256	84	258674	52.577	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 105.160%		
26) 1,2-Dichloroethane-d4	4.950	65	164397	53.141	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 106.280%		
32) Benzene-d6	4.966	84	438368	51.493	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 102.980%		
36) 1,2-Dichloropropane-d6	5.995	67	159646	58.001	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	= 116.000%		
41) Toluene-d8	7.249	98	372833	48.710	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 97.420%		
43) trans-1,3-Dichloroprop...	7.558	79	68194	49.616	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 99.240%		
47) 2-Hexanone-d5	8.031	63	103156	97.777	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	= 97.780%		
56) 1,1,2,2-Tetrachloroeth...	10.159	84	213360	51.179	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	= 102.360%		
66) 1,2-Dichlorobenzene-d4	11.567	152	144425	58.650	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 117.300%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.108	85	7300	2.156	ug/L	97
3) Chloromethane	1.217	50	8570	2.447	ug/L	100
5) Vinyl chloride	1.285	62	8049	2.454	ug/L #	69
6) Bromomethane	1.487	94	5105	2.724	ug/L	89
8) Chloroethane	1.552	64	5147	2.845	ug/L	99
9) Trichlorofluoromethane	1.716	101	11301	2.404	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	8587	3.173	ug/L #	82
12) 1,1-Dichloroethene	2.073	96	7336	3.119	ug/L #	1
13) Acetone	2.118	43	7306	5.367	ug/L	98
14) Carbon disulfide	2.246	76	17610	2.274	ug/L	98
15) Methyl Acetate	2.384	43	6261	2.182	ug/L #	79
16) Methylene chloride	2.452	84	7339	2.640	ug/L	94
17) trans-1,2-Dichloroethene	2.703	96	4909	2.044	ug/L	85
18) Methyl tert-butyl Ether	2.709	73	13860	1.896	ug/L	98
19) 1,1-Dichloroethane	3.121	63	10716	2.182	ug/L	92
20) cis-1,2-Dichloroethene	3.825	96	5355	2.173	ug/L	94
22) 2-Butanone	3.889	43	1293	0.685	ug/L	78
23) Bromochloromethane	4.162	128	1778	1.327	ug/L	90
25) Chloroform	4.285	83	13939	2.767	ug/L	96

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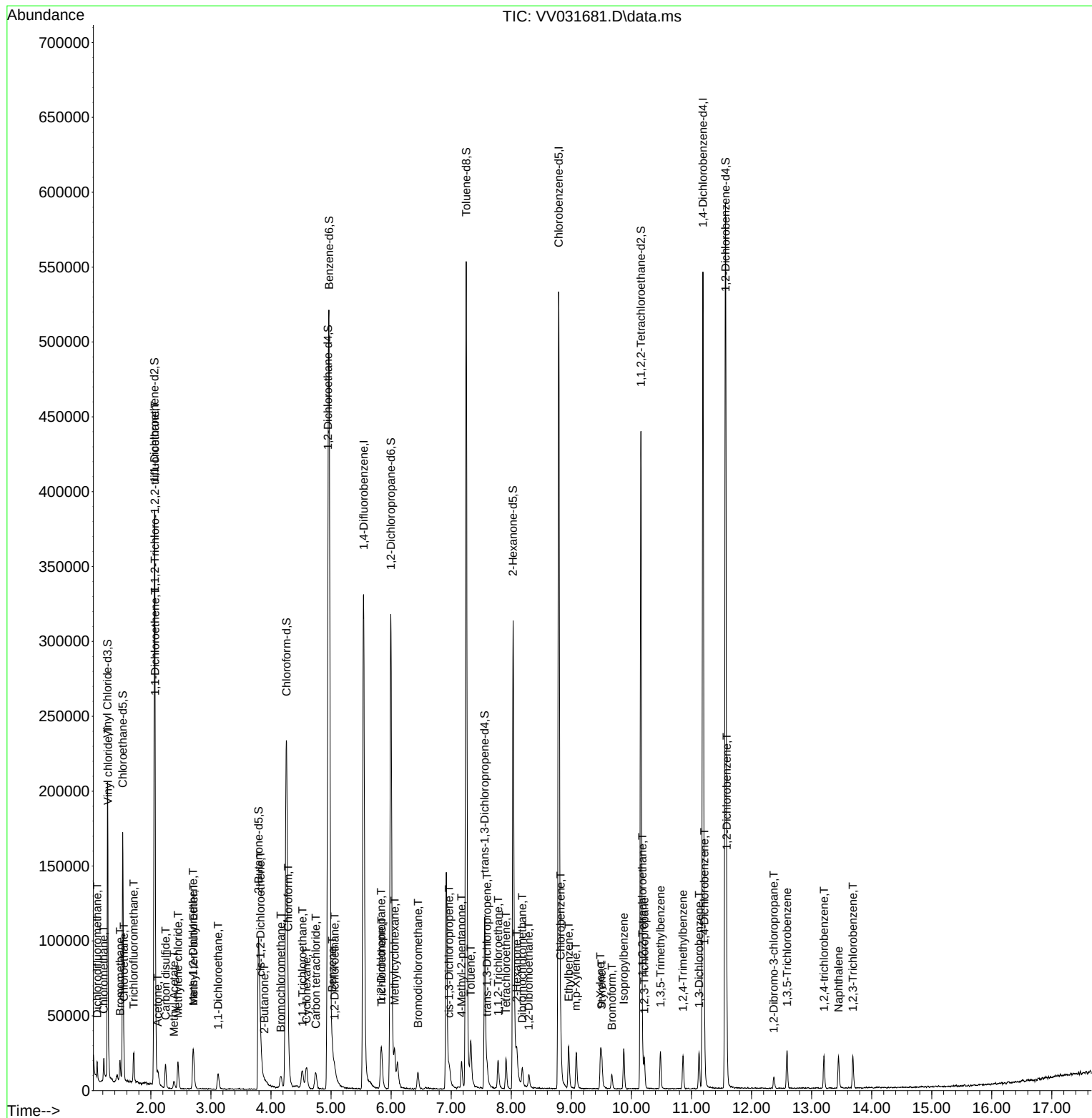
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.060	62	9227	2.466	ug/L	97
29) Cyclohexane	4.590	56	6472	1.739	ug/L	91
30) 1,1,1-Trichloroethane	4.523	97	10630	2.396	ug/L #	89
31) Carbon tetrachloride	4.748	117	8459	2.151	ug/L	98
33) Benzene	5.018	78	19129	1.976	ug/L	100
34) Trichloroethene	5.844	95	6452	2.368	ug/L #	79
35) Methylcyclohexane	6.060	83	6397	1.725	ug/L #	84
37) 1,2-Dichloropropane	5.834	63	1339	0.495	ug/L	98
38) Bromodichloromethane	6.449	83	8588	2.340	ug/L	98
39) cis-1,3-Dichloropropene	6.963	75	1970	0.481	ug/L	90
40) 4-Methyl-2-pentanone	7.172	43	12226	3.631	ug/L	95
42) Toluene	7.326	91	20724	2.072	ug/L	96
44) trans-1,3-Dichloropropene	7.596	75	8961	2.194	ug/L #	79
45) 1,1,2-Trichloroethane	7.780	97	6185	2.308	ug/L	91
46) Tetrachloroethene	7.915	164	3793	1.831	ug/L	88
48) 2-Hexanone	8.092	43	13309	4.704	ug/L #	92
49) Dibromochloromethane	8.185	129	5099	1.713	ug/L	82
50) 1,2-Dibromoethane	8.291	107	6283	2.128	ug/L #	94
51) Chlorobenzene	8.821	112	14964	2.258	ug/L	99
52) Ethylbenzene	8.957	91	19103	1.756	ug/L	95
53) m,p-Xylene	9.079	106	6436	1.605	ug/L	90
54) o-Xylene	9.484	106	6182	1.664	ug/L	84
55) Styrene	9.506	104	9533	1.394	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.185	83	10428	2.506	ug/L	83
59) Bromoform	9.674	173	3452	2.012	ug/L #	97
60) Isopropylbenzene	9.873	105	14876	1.815	ug/L	99
61) 1,2,3-Trichloropropane	10.217	75	7560	2.707	ug/L	96
62) 1,3,5-Trimethylbenzene	10.484	105	12367	1.846	ug/L	93
63) 1,2,4-Trimethylbenzene	10.860	105	11827	1.773	ug/L	93
64) 1,3-Dichlorobenzene	11.127	146	9416	2.211	ug/L	90
65) 1,4-Dichlorobenzene	11.217	146	10651	2.306	ug/L	96
67) 1,2-Dichlorobenzene	11.587	146	11716	2.683	ug/L	90
68) 1,2-Dibromo-3-chloropr...	12.371	75	2436	2.859	ug/L	92
69) 1,3,5-Trichlorobenzene	12.590	180	7476	2.344	ug/L	97
70) 1,2,4-trichlorobenzene	13.207	180	6425	2.273	ug/L	99
71) Naphthalene	13.448	128	15544	1.900	ug/L	97
72) 1,2,3-Trichlorobenzene	13.686	180	6562	2.214	ug/L	92

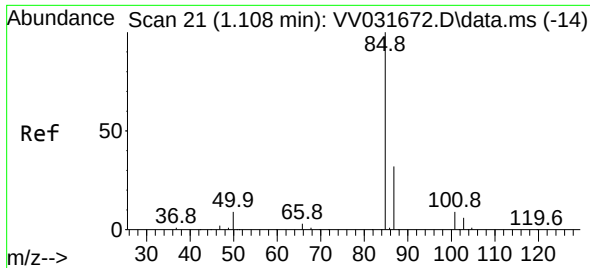
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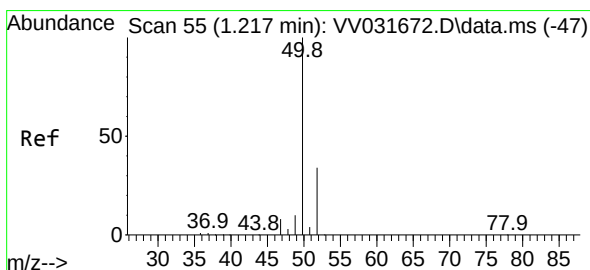
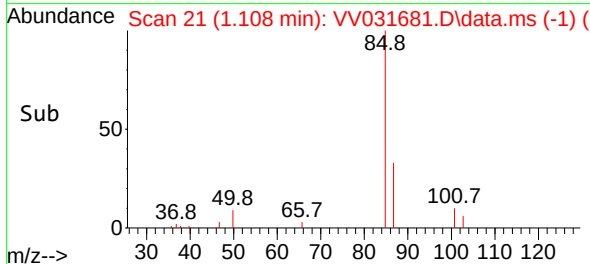
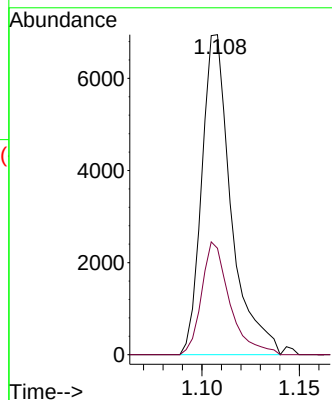
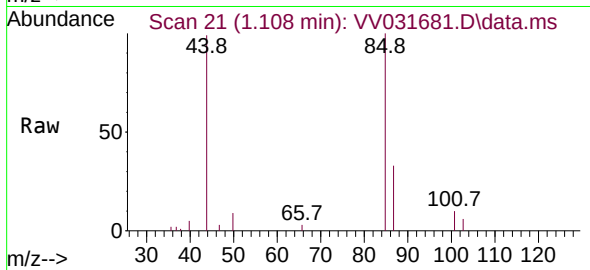




#2
 Dichlorodifluoromethane
 Concen: 2.156 ug/L
 RT: 1.108 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VV031681.D
 Acq: 11 Jul 2023 16:06

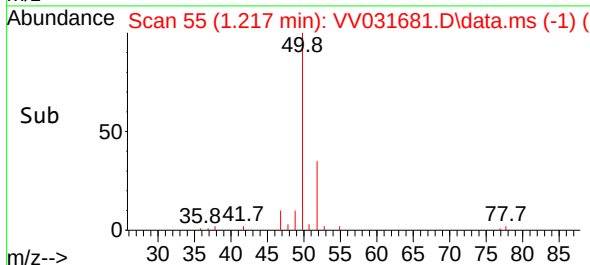
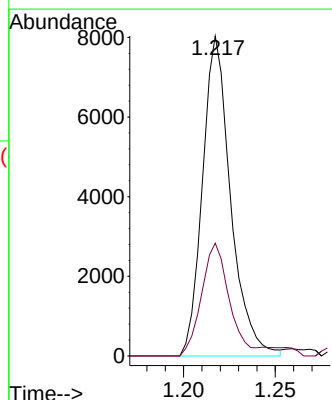
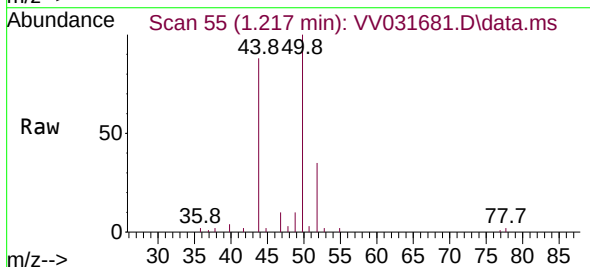
Instrument : MSVOA_V
 ClientSampleId : MDL-WATER-QT3-2023-05

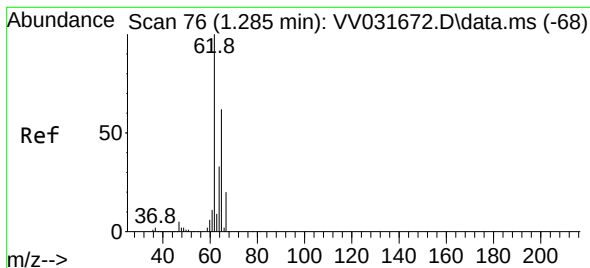
Tgt Ion: 85 Resp: 7300
 Ion Ratio Lower Upper
 85 100
 87 33.8 25.8 38.6



#3
 Chloromethane
 Concen: 2.447 ug/L
 RT: 1.217 min Scan# 55
 Delta R.T. 0.000 min
 Lab File: VV031681.D
 Acq: 11 Jul 2023 16:06

Tgt Ion: 50 Resp: 8570
 Ion Ratio Lower Upper
 50 100
 52 34.1 23.7 44.1





#5

Vinyl chloride

Concen: 2.454 ug/L

RT: 1.285 min Scan# 7

Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

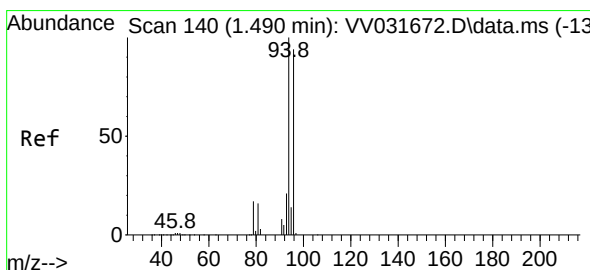
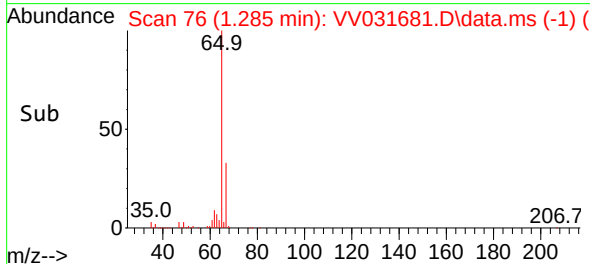
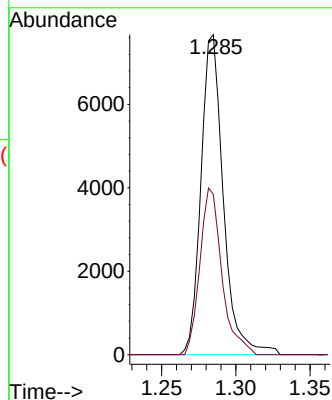
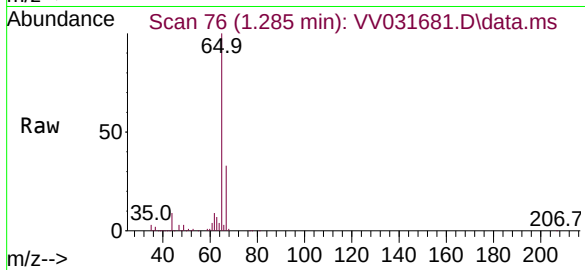
MDL-WATER-QT3-2023-05

Tgt Ion: 62 Resp: 8049

Ion Ratio Lower Upper

62 100

64 50.1 22.9 42.5#



#6

Bromomethane

Concen: 2.724 ug/L

RT: 1.487 min Scan# 139

Delta R.T. -0.003 min

Lab File: VV031681.D

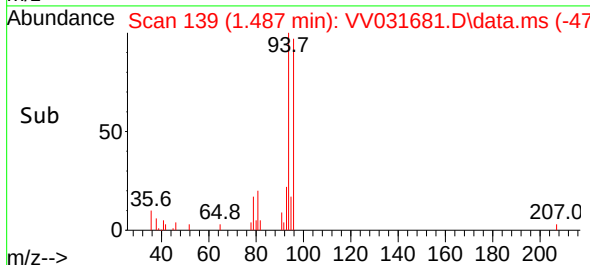
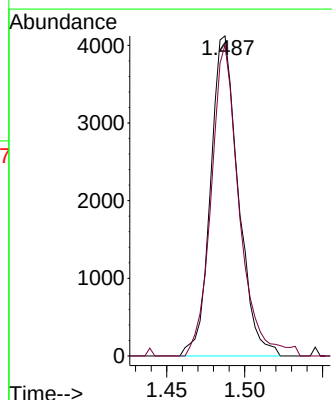
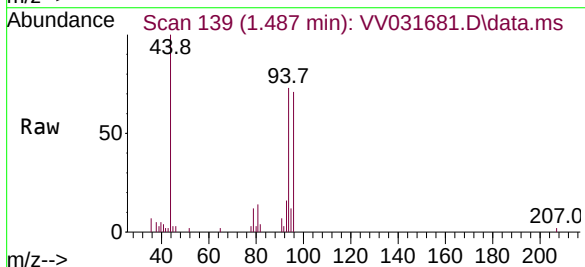
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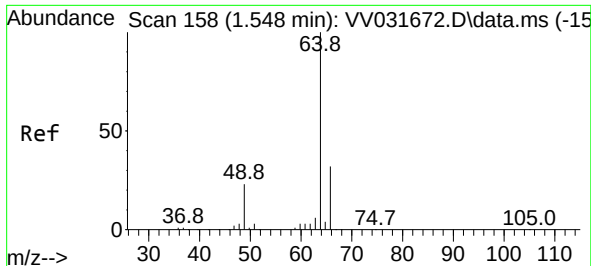
Tgt Ion: 94 Resp: 5105

Ion Ratio Lower Upper

94 100

96 82.9 65.7 121.9

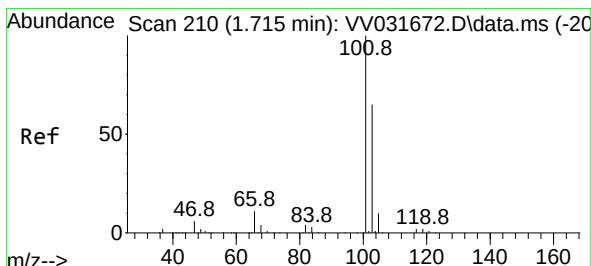
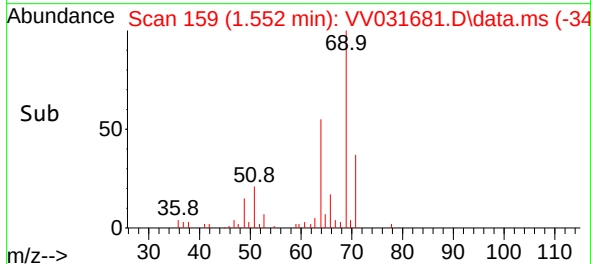
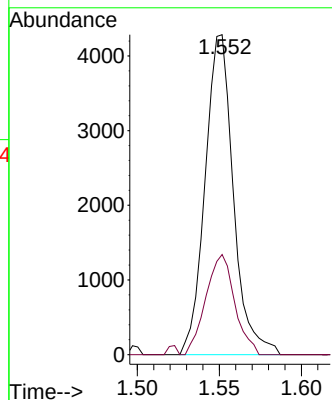
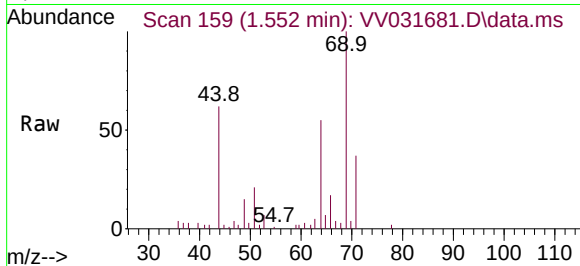




#8
Chloroethane
Concen: 2.845 ug/L
RT: 1.552 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

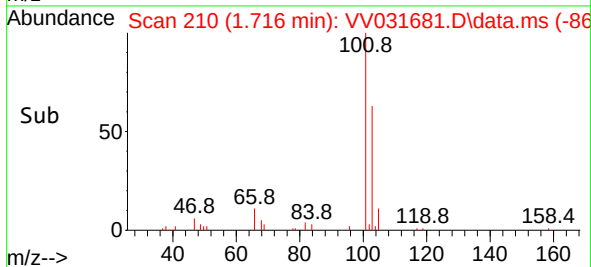
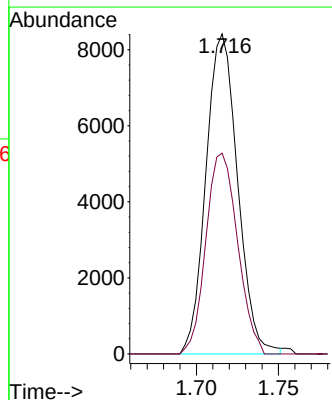
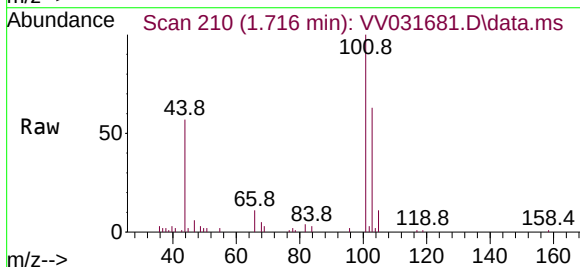
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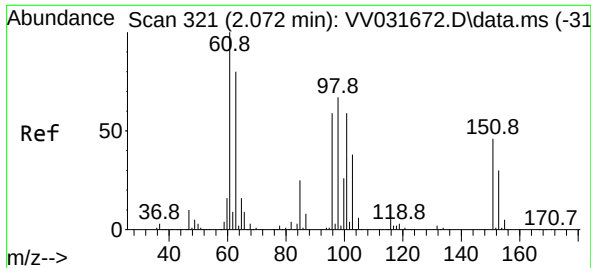
Tgt Ion: 64 Resp: 5147
Ion Ratio Lower Upper
64 100
66 31.3 22.4 41.6



#9
Trichlorofluoromethane
Concen: 2.404 ug/L
RT: 1.716 min Scan# 210
Delta R.T. 0.000 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion:101 Resp: 11301
Ion Ratio Lower Upper
101 100
103 62.6 51.7 77.5





#10

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

Concen: 3.173 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

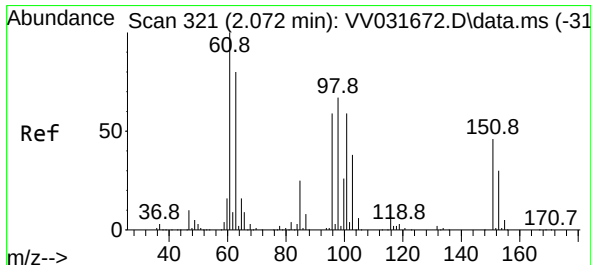
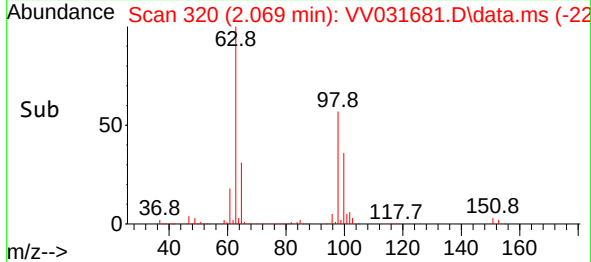
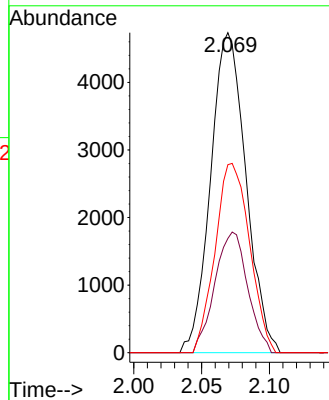
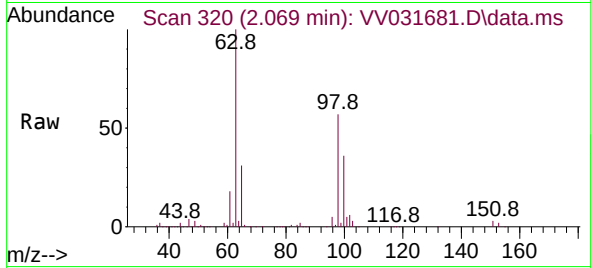
Tgt Ion:101 Resp: 8587

Ion Ratio Lower Upper

101 100

85 35.1 33.9 50.9

151 57.7 61.0 91.6#



#12

1,1-Dichloroethene

Concen: 3.119 ug/L

RT: 2.073 min Scan# 321

Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

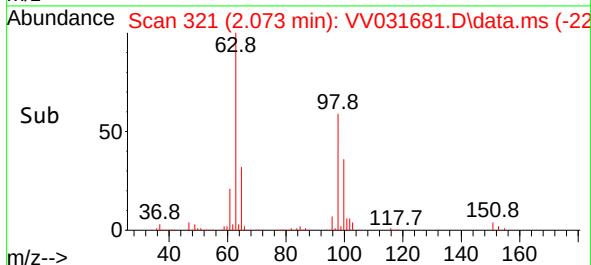
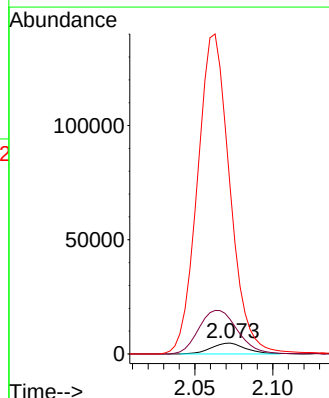
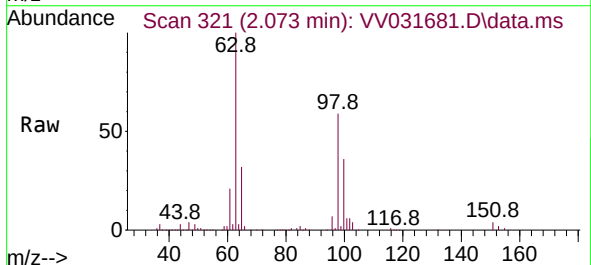
Tgt Ion: 96 Resp: 7336

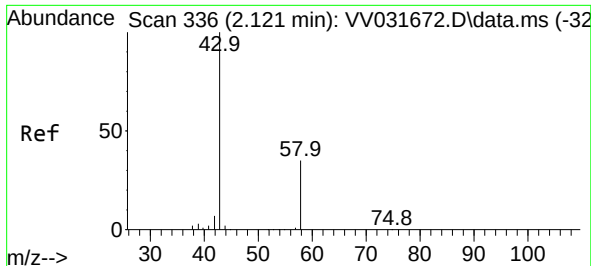
Ion Ratio Lower Upper

96 100

61 319.1 118.3 219.7#

63 1535.7 96.8 179.8#





#13

Acetone

Concen: 5.367 ug/L

RT: 2.118 min Scan# 31

Delta R.T. -0.003 min

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Acq: 11 Jul 2023 16:06

Instrument :

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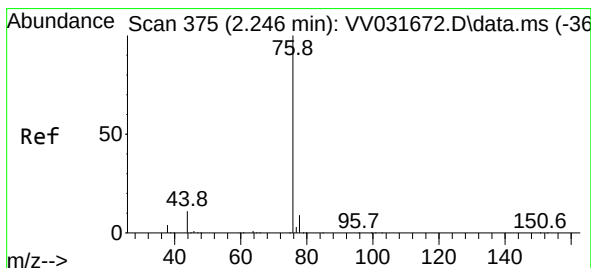
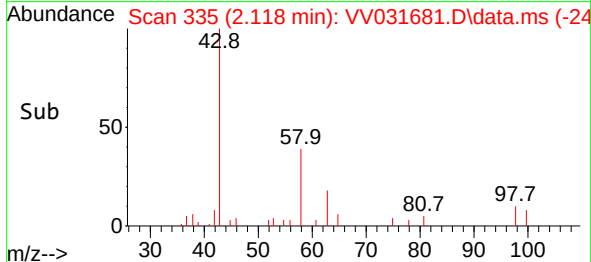
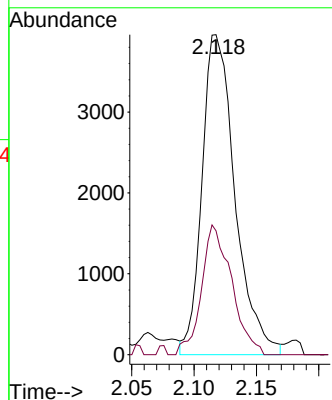
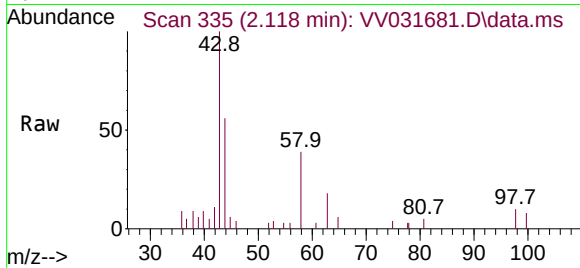
MDL-WATER-QT3-2023-05

Tgt Ion: 43 Resp: 7306

Ion Ratio Lower Upper

43 100

58 36.9 0.0 72.0



#14

Carbon disulfide

Concen: 2.274 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

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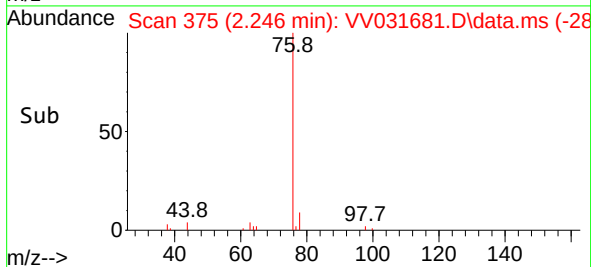
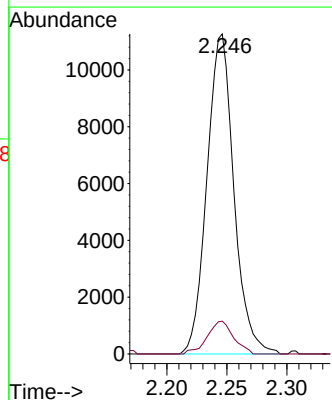
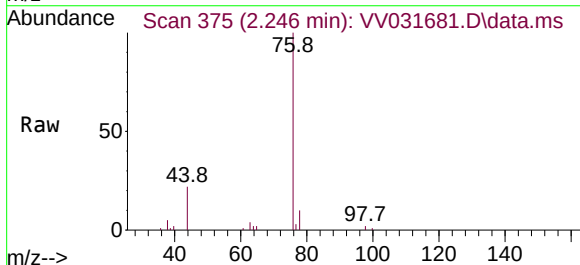
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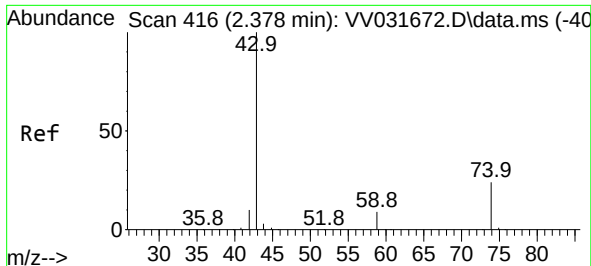
Tgt Ion: 76 Resp: 17610

Ion Ratio Lower Upper

76 100

78 10.0 7.4 11.0

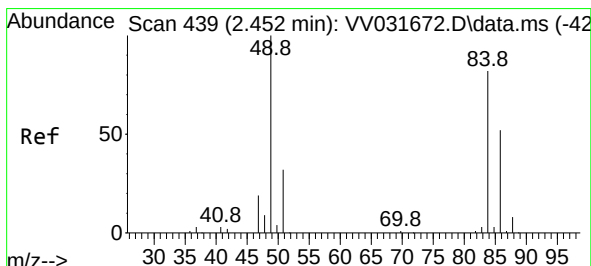
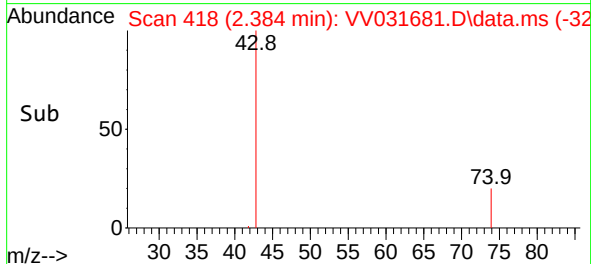
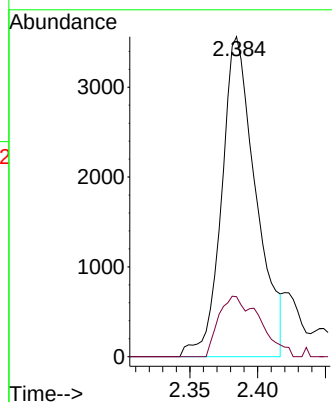
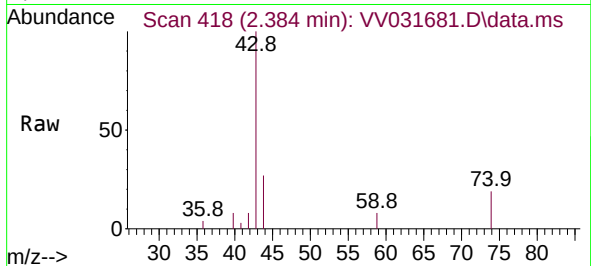




#15
Methyl Acetate
Concen: 2.182 ug/L
RT: 2.384 min Scan# 416
Delta R.T. 0.007 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

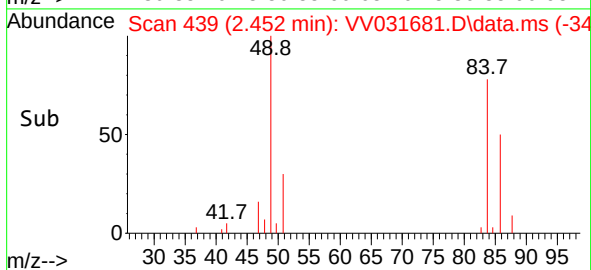
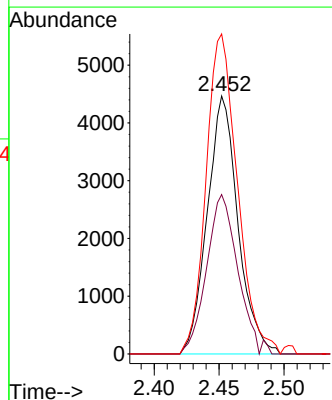
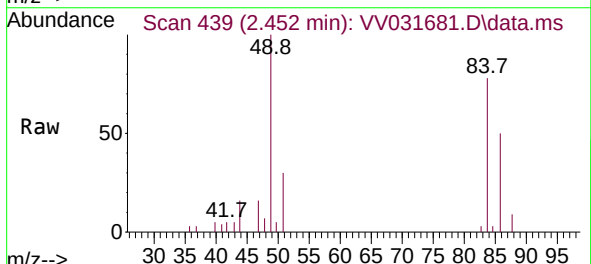
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT3-2023-05

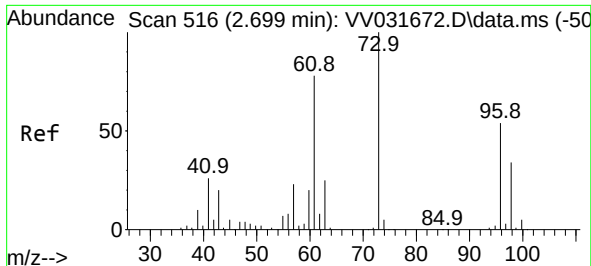
Tgt Ion: 43 Resp: 6261
Ion Ratio Lower Upper
43 100
74 14.0 19.5 29.3#



#16
Methylene chloride
Concen: 2.640 ug/L
RT: 2.452 min Scan# 439
Delta R.T. 0.000 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion: 84 Resp: 7339
Ion Ratio Lower Upper
84 100
86 61.8 44.5 82.7
49 130.2 85.3 158.5





#17

trans-1,2-Dichloroethene

Concen: 2.044 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

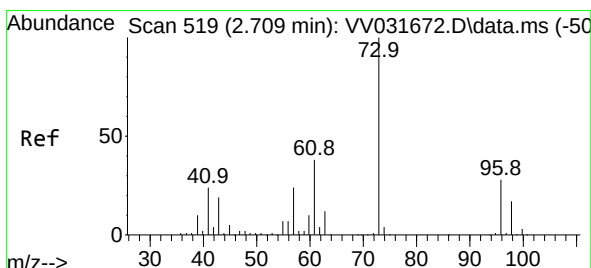
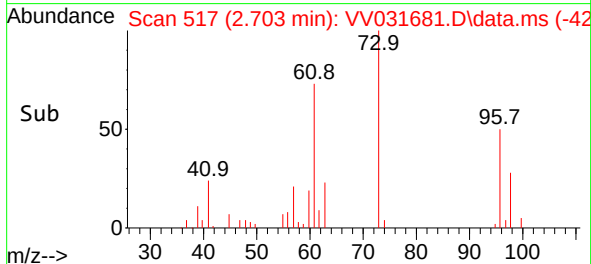
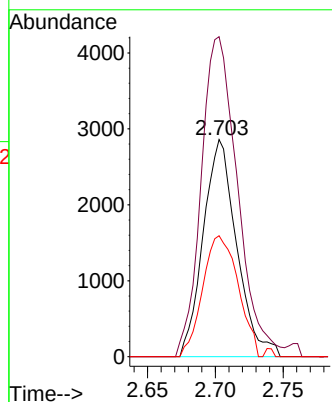
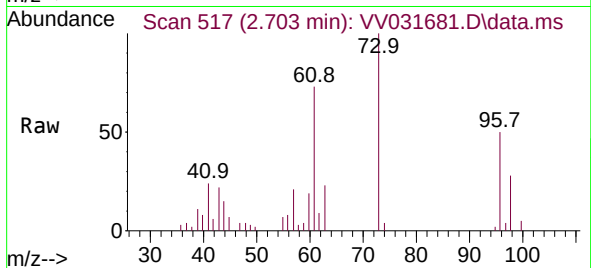
Tgt Ion: 96 Resp: 4909

Ion Ratio Lower Upper

96 100

61 165.5 101.6 188.6

98 55.8 44.7 82.9



#18

Methyl tert-butyl Ether

Concen: 1.896 ug/L

RT: 2.709 min Scan# 519

Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

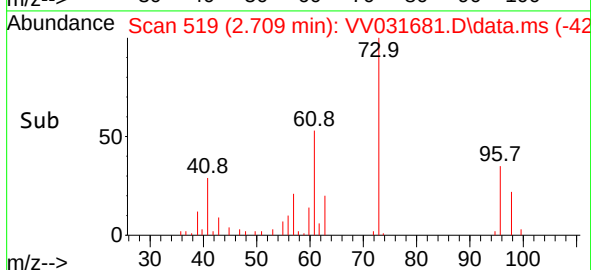
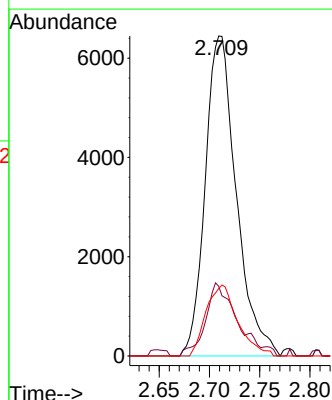
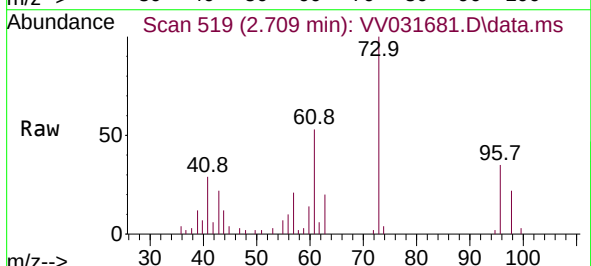
Tgt Ion: 73 Resp: 13860

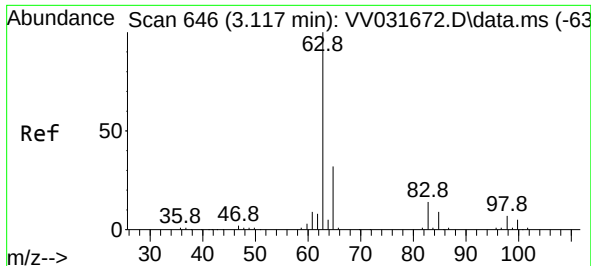
Ion Ratio Lower Upper

73 100

43 20.1 15.0 22.4

57 22.5 18.3 27.5





#19

1,1-Dichloroethane

Concen: 2.182 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

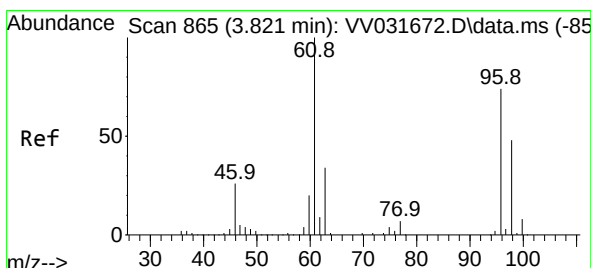
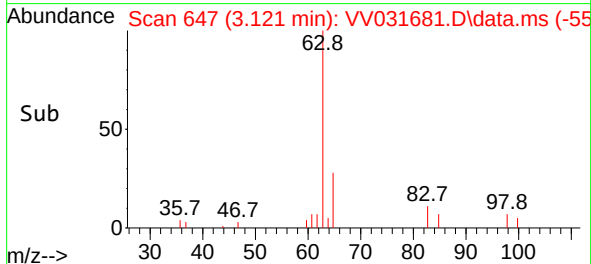
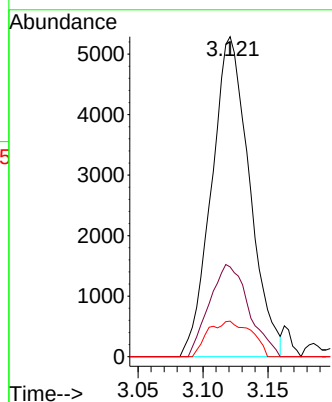
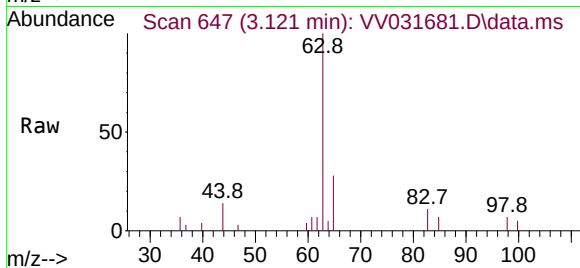
Tgt Ion: 63 Resp: 10716

Ion Ratio Lower Upper

63 100

65 28.1 22.3 41.5

83 11.1 10.6 19.6



#20

cis-1,2-Dichloroethene

Concen: 2.173 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

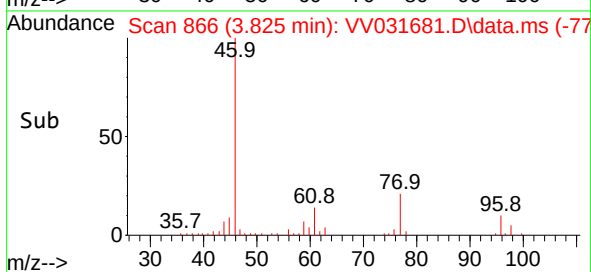
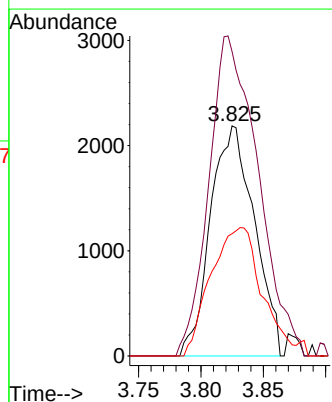
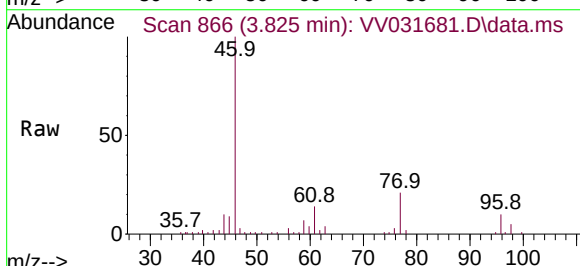
Tgt Ion: 96 Resp: 5355

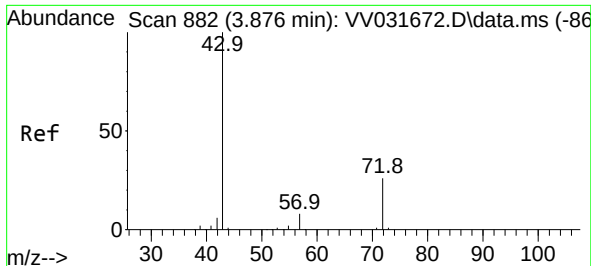
Ion Ratio Lower Upper

96 100

61 132.3 90.6 168.2

98 53.1 43.8 81.3

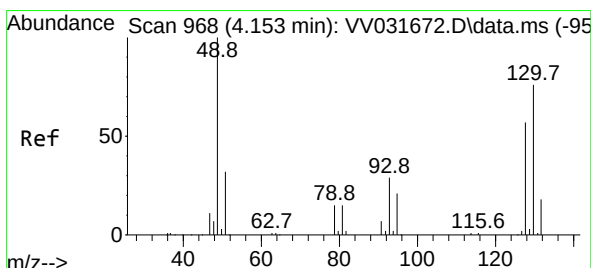
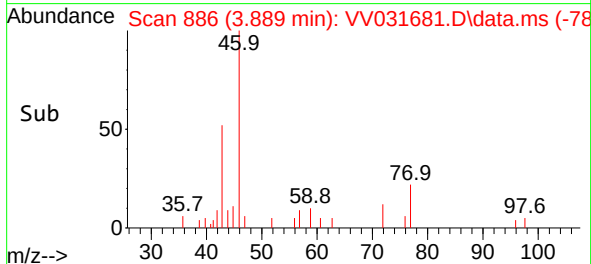
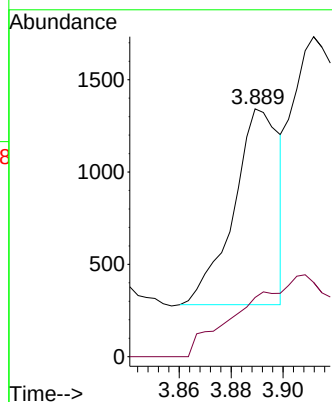
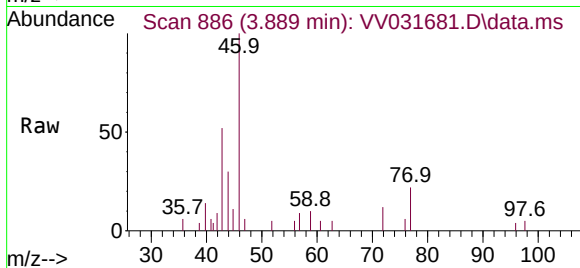




#22
2-Butanone
Concen: 0.685 ug/L
RT: 3.889 min Scan# 882
Delta R.T. 0.013 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

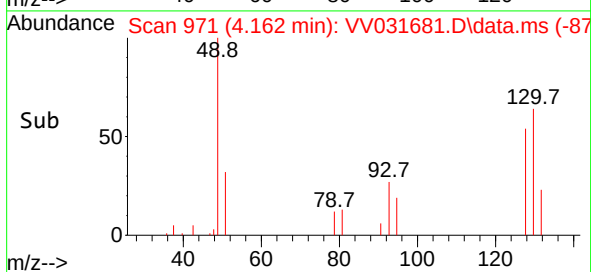
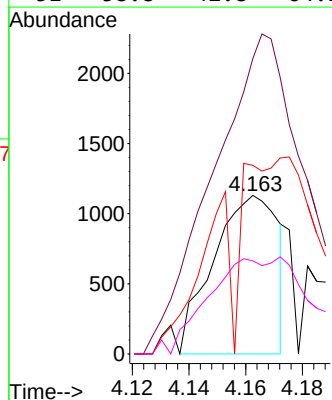
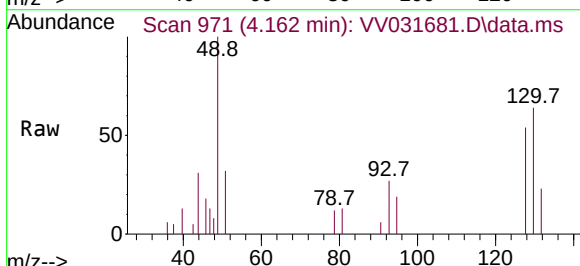
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT3-2023-05

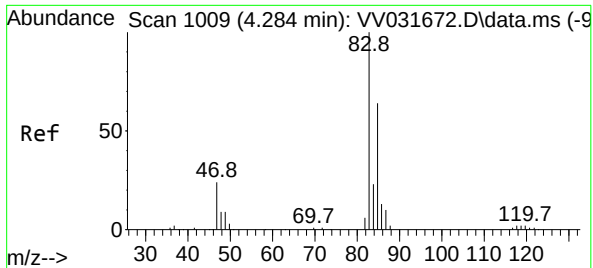
Tgt Ion: 43 Resp: 1293
Ion Ratio Lower Upper
43 100
72 14.2 12.7 38.0



#23
Bromochloromethane
Concen: 1.327 ug/L
RT: 4.162 min Scan# 971
Delta R.T. 0.010 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion:128 Resp: 1778
Ion Ratio Lower Upper
128 100
49 186.3 117.9 218.9
130 119.0 89.1 165.5
51 58.8 42.8 64.2





#25

Chloroform

Concen: 2.767 ug/L

RT: 4.285 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

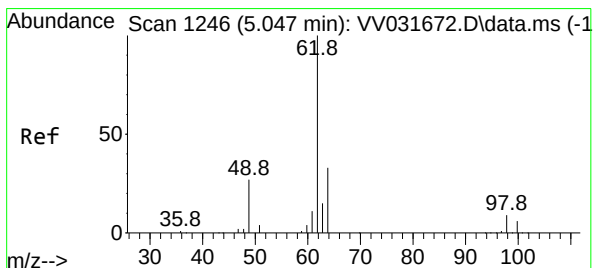
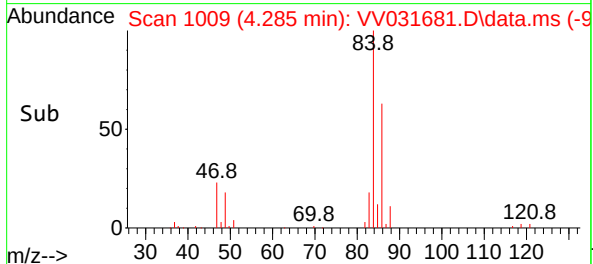
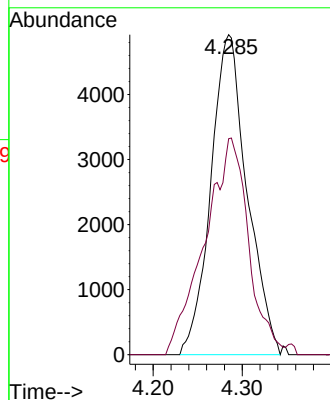
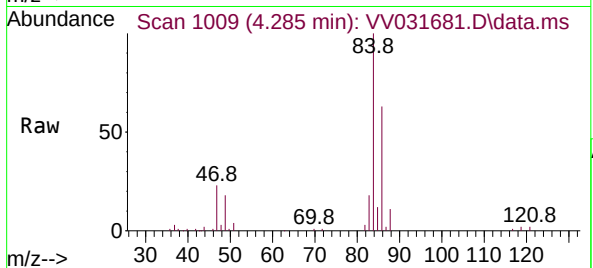
MDL-WATER-QT3-2023-05

Tgt Ion: 83 Resp: 13939

Ion Ratio Lower Upper

83 100

85 67.5 45.1 83.9



#27

1,2-Dichloroethane

Concen: 2.466 ug/L

RT: 5.060 min Scan# 1250

Delta R.T. 0.013 min

Lab File: VV031681.D

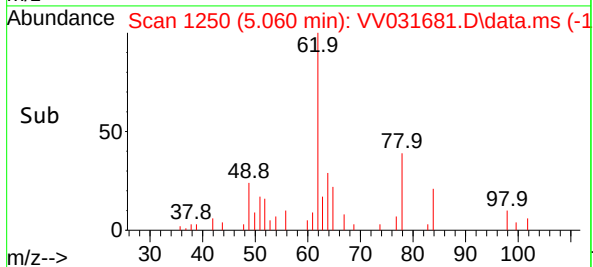
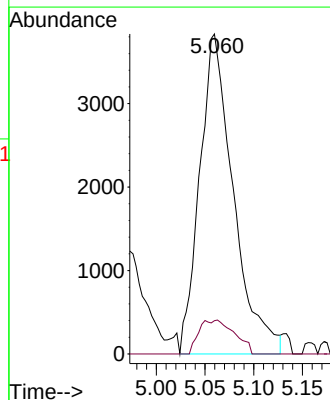
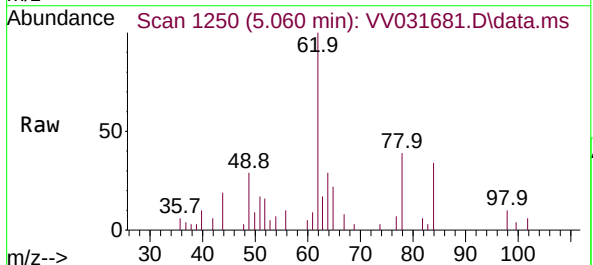
Acq: 11 Jul 2023 16:06

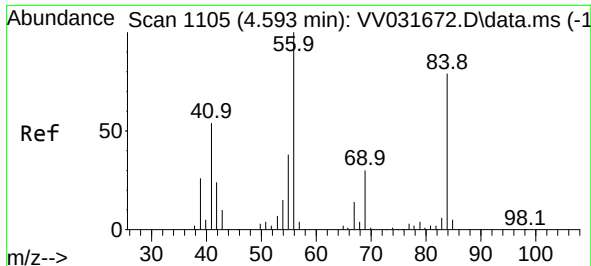
Tgt Ion: 62 Resp: 9227

Ion Ratio Lower Upper

62 100

98 10.4 7.5 11.3

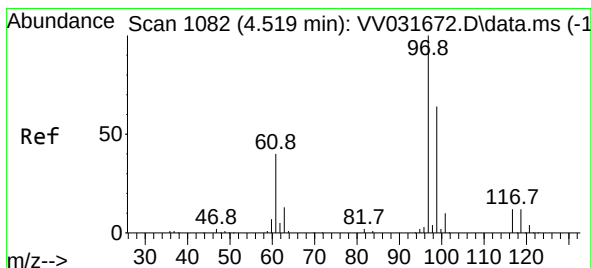
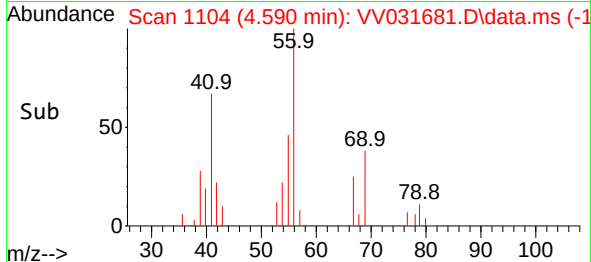
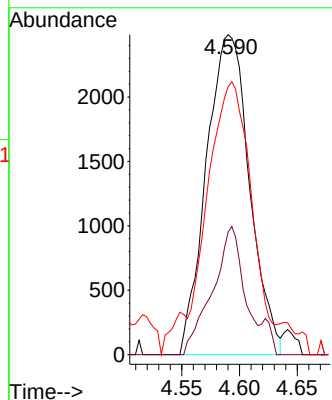
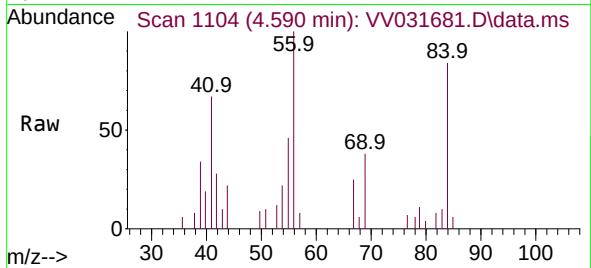




#29
Cyclohexane
Concen: 1.739 ug/L
RT: 4.590 min Scan# 1105
Delta R.T. -0.003 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

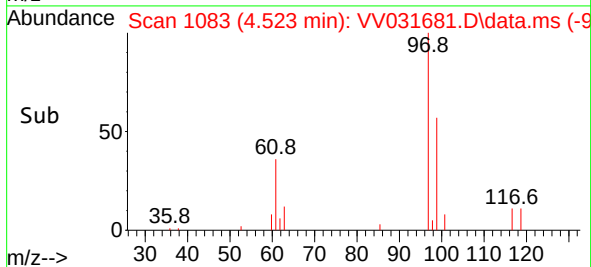
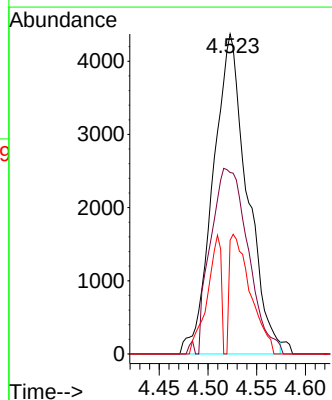
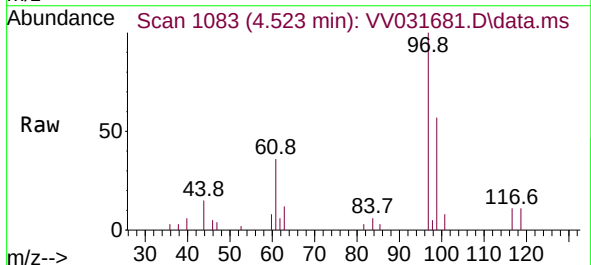
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT3-2023-05

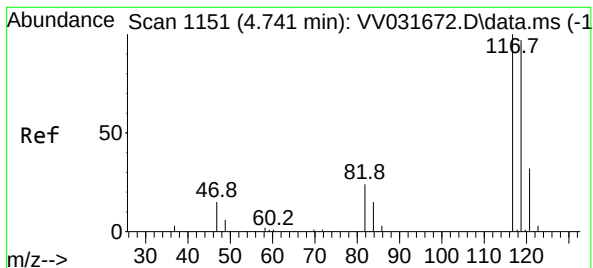
Tgt Ion: 56 Resp: 6472
Ion Ratio Lower Upper
56 100
69 29.1 24.1 36.1
84 69.0 63.6 95.4



#30
1,1,1-Trichloroethane
Concen: 2.396 ug/L
RT: 4.523 min Scan# 1083
Delta R.T. 0.003 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion: 97 Resp: 10630
Ion Ratio Lower Upper
97 100
99 63.7 51.5 77.3
61 23.0 32.2 48.2#





#31

Carbon tetrachloride

Concen: 2.151 ug/L

RT: 4.748 min Scan# 1151

Delta R.T. 0.007 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

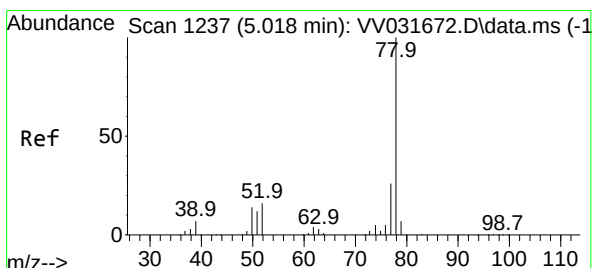
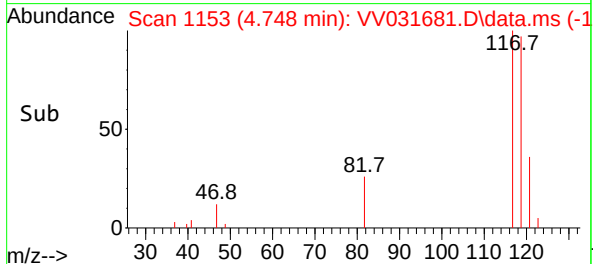
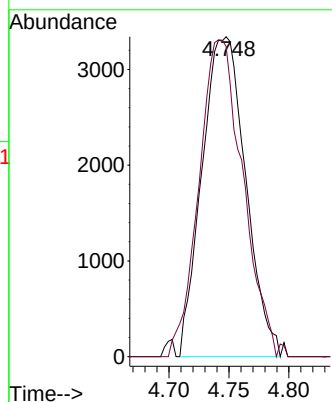
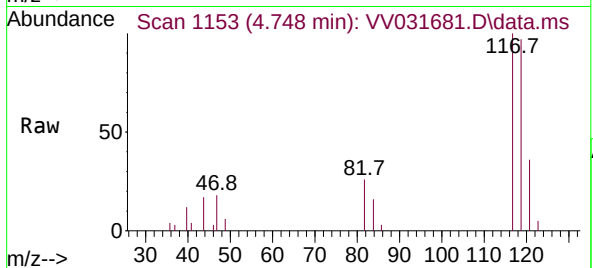
MDL-WATER-QT3-2023-05

Tgt Ion:117 Resp: 8459

Ion Ratio Lower Upper

117 100

119 99.4 78.0 117.0



#33

Benzene

Concen: 1.976 ug/L

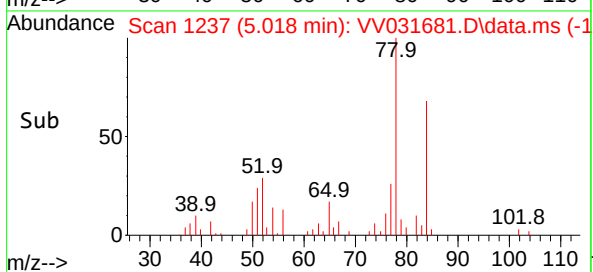
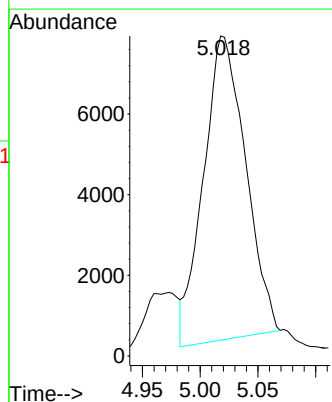
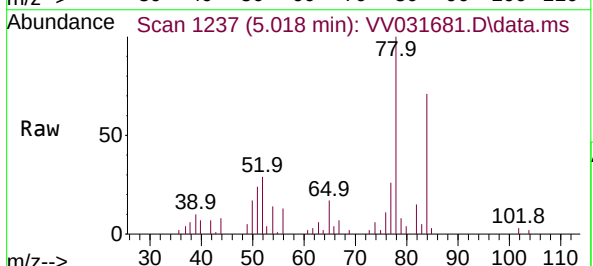
RT: 5.018 min Scan# 1237

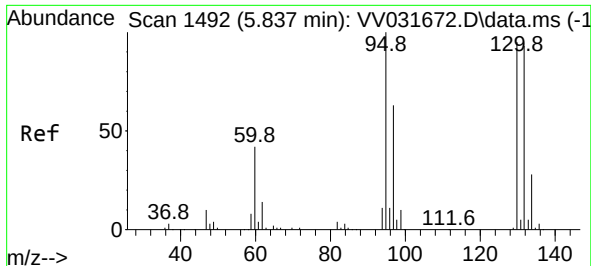
Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Tgt Ion: 78 Resp: 19129

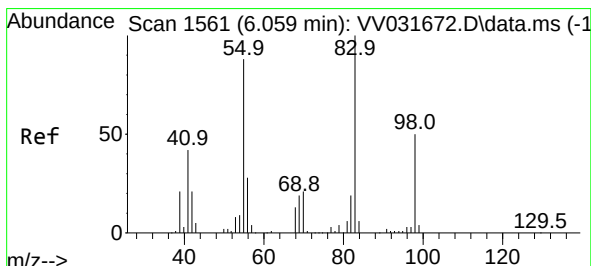
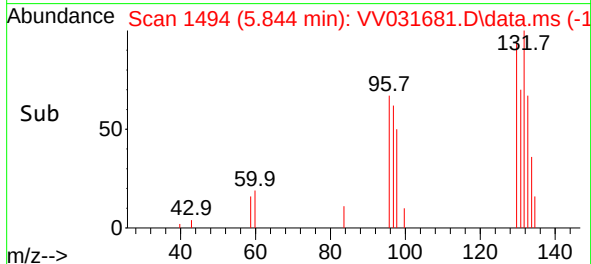
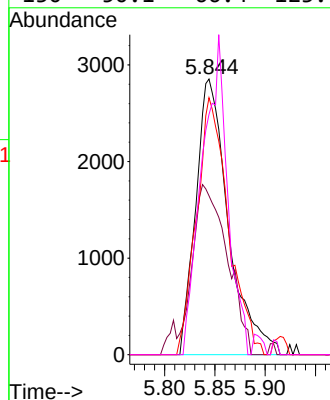
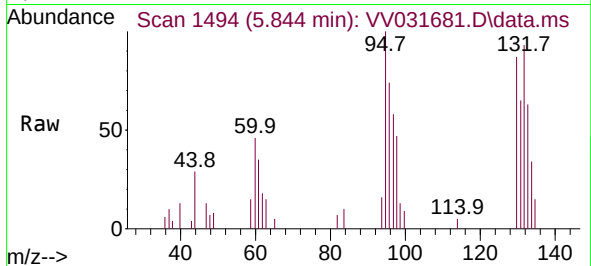




#34
Trichloroethene
Concen: 2.368 ug/L
RT: 5.844 min Scan# 1492
Delta R.T. 0.007 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

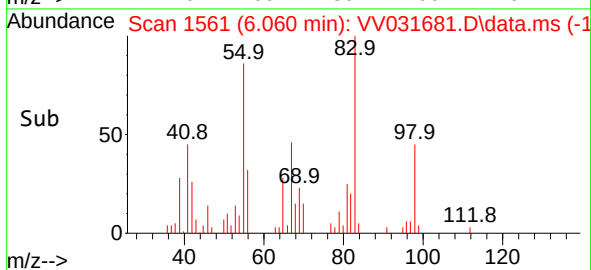
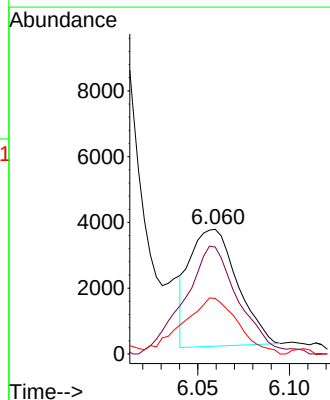
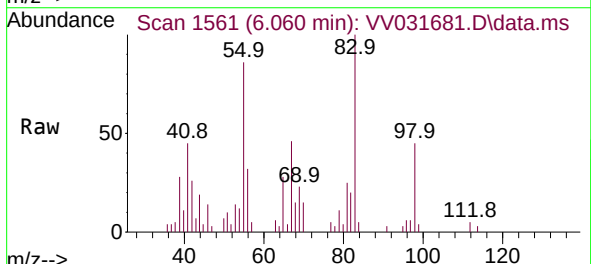
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT3-2023-05

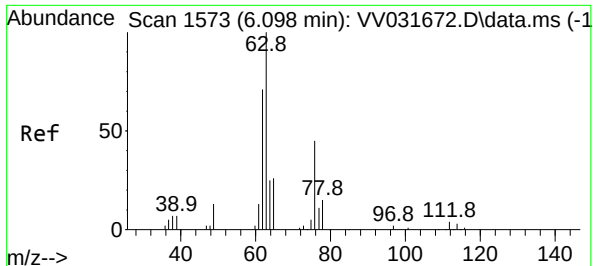
Tgt Ion: 95	Resp: 6452
Ion Ratio	Lower Upper
95 100	
97 60.0	47.0 87.2
132 89.7	64.8 120.4
130 50.1	66.4 123.4#



#35
Methylcyclohexane
Concen: 1.725 ug/L
RT: 6.060 min Scan# 1561
Delta R.T. 0.000 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion: 83	Resp: 6397
Ion Ratio	Lower Upper
83 100	
55 104.3	69.4 104.2#
98 55.5	38.2 57.2





#37

1,2-Dichloropropane

Concen: 0.495 ug/L

RT: 5.834 min Scan# 1491

Delta R.T. -0.263 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

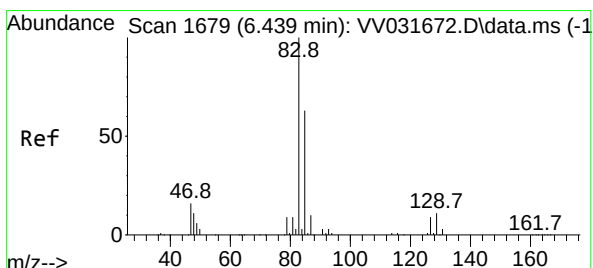
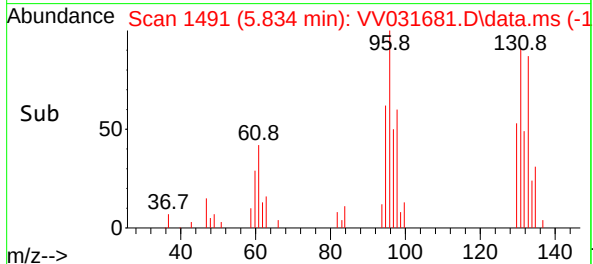
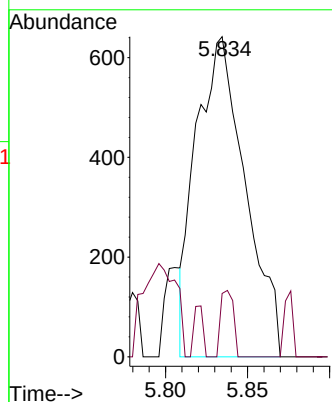
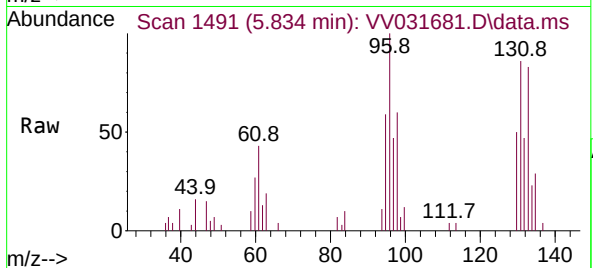
MDL-WATER-QT3-2023-05

Tgt Ion: 63 Resp: 1339

Ion Ratio Lower Upper

63 100

112 5.4 3.7 5.5



#38

Bromodichloromethane

Concen: 2.340 ug/L

RT: 6.449 min Scan# 1682

Delta R.T. 0.010 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

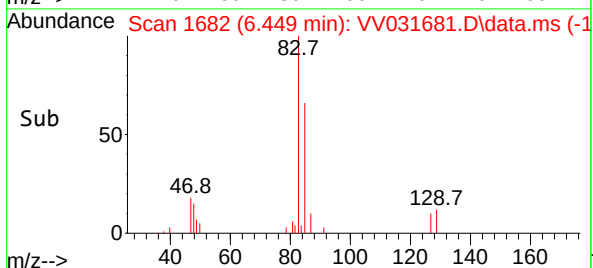
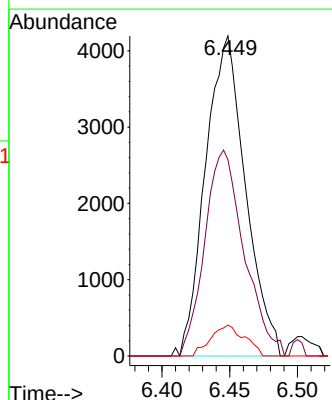
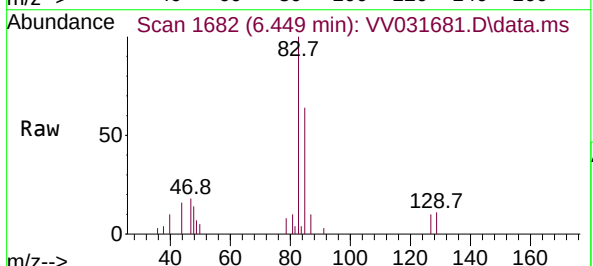
Tgt Ion: 83 Resp: 8588

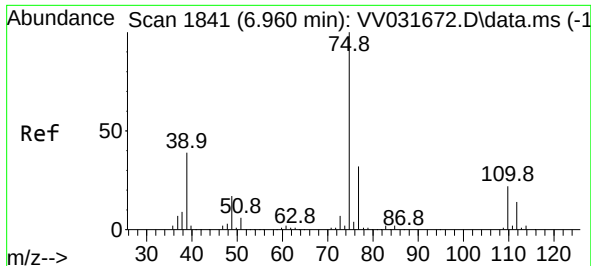
Ion Ratio Lower Upper

83 100

85 61.4 44.2 82.0

127 9.6 7.8 11.6





#39

cis-1,3-Dichloropropene

Concen: 0.481 ug/L

RT: 6.963 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

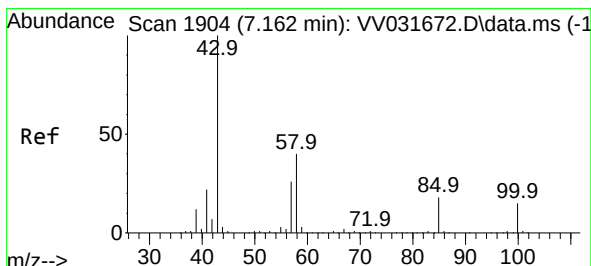
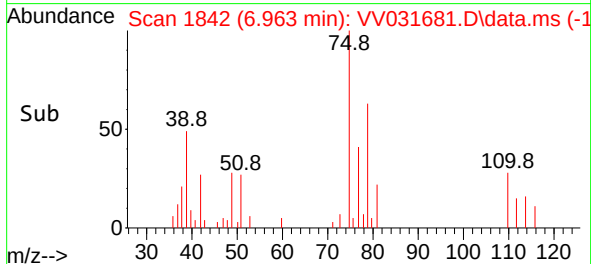
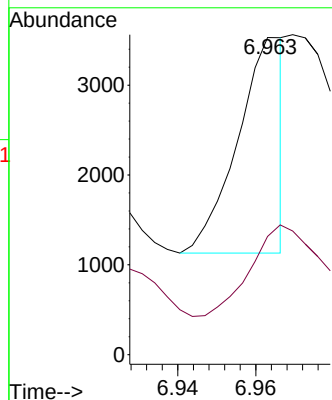
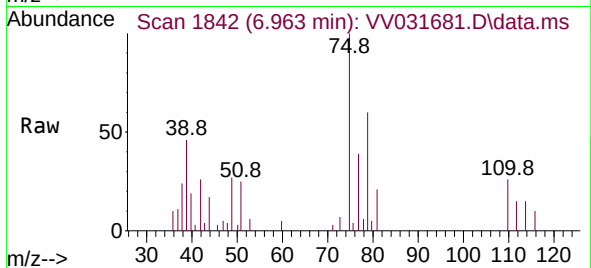
MDL-WATER-QT3-2023-05

Tgt Ion: 75 Resp: 1970

Ion Ratio Lower Upper

75 100

77 37.3 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 3.631 ug/L

RT: 7.172 min Scan# 1907

Delta R.T. 0.010 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

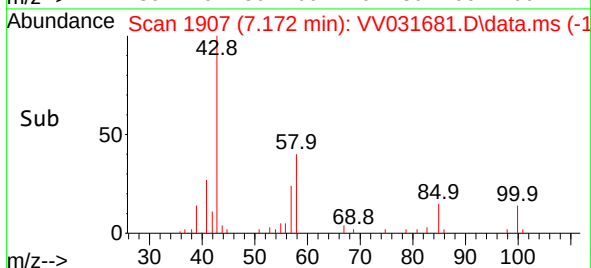
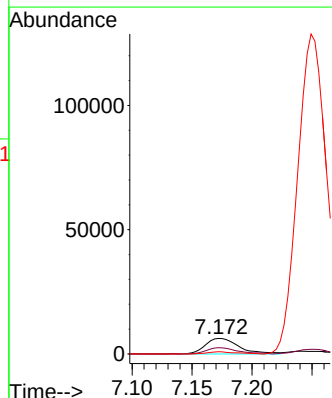
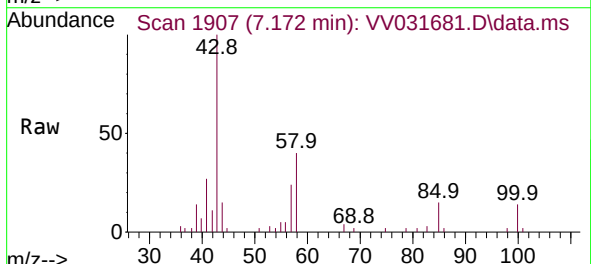
Tgt Ion: 43 Resp: 12226

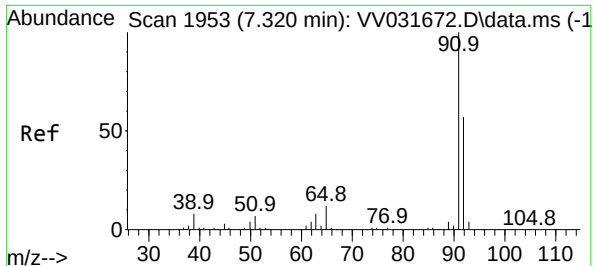
Ion Ratio Lower Upper

43 100

58 37.3 32.1 48.1

100 12.1 12.1 18.1





#42

Toluene

Concen: 2.072 ug/L

RT: 7.326 min Scan# 1953

Delta R.T. 0.007 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

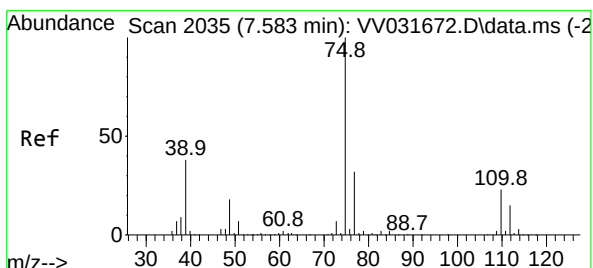
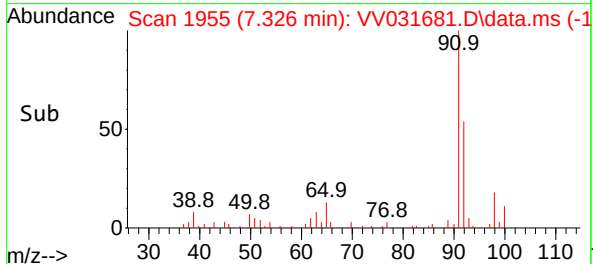
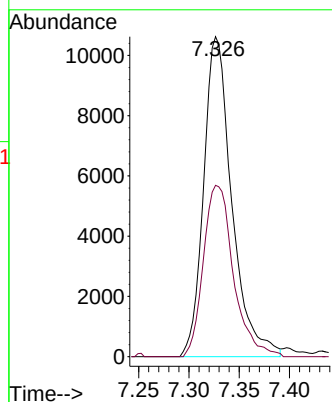
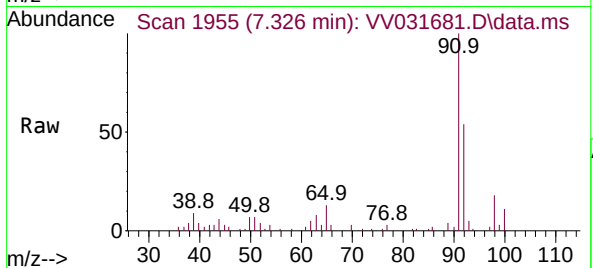
MDL-WATER-QT3-2023-05

Tgt Ion: 91 Resp: 20724

Ion Ratio Lower Upper

91 100

92 53.5 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 2.194 ug/L

RT: 7.596 min Scan# 2039

Delta R.T. 0.013 min

Lab File: VV031681.D

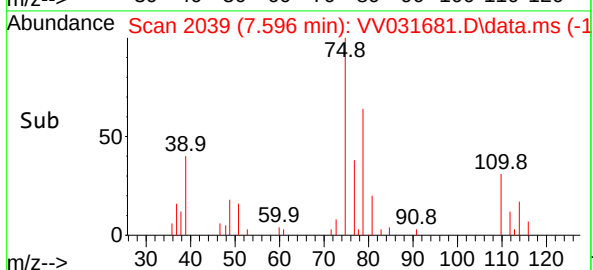
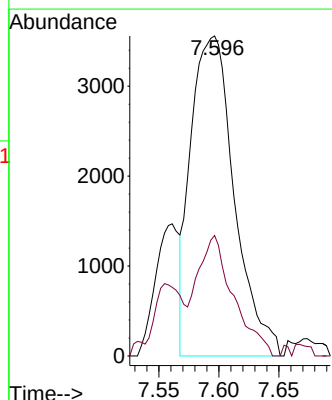
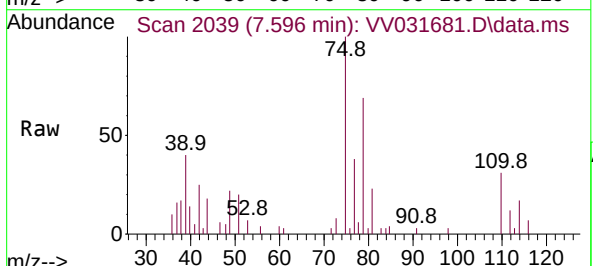
Acq: 11 Jul 2023 16:06

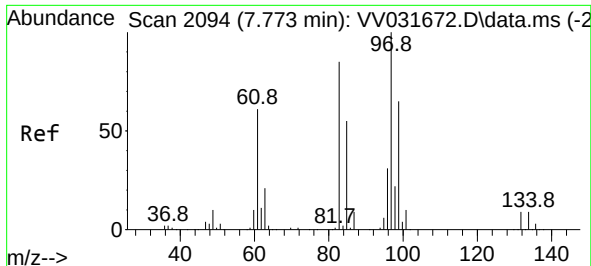
Tgt Ion: 75 Resp: 8961

Ion Ratio Lower Upper

75 100

77 43.4 22.3 41.3#





#45

1,1,2-Trichloroethane

Concen: 2.308 ug/L

RT: 7.780 min Scan# 2094

Delta R.T. 0.007 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

Tgt Ion: 97 Resp: 6185

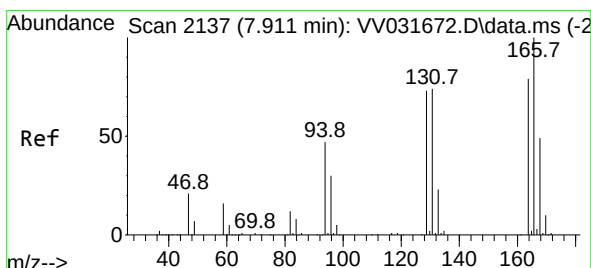
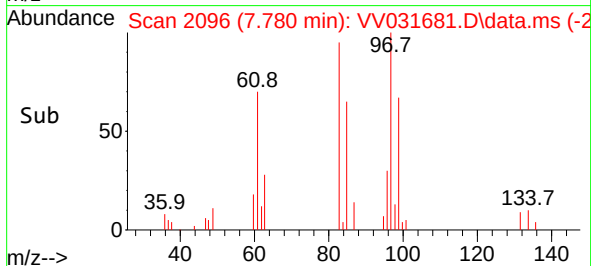
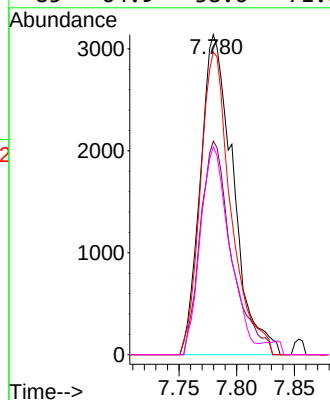
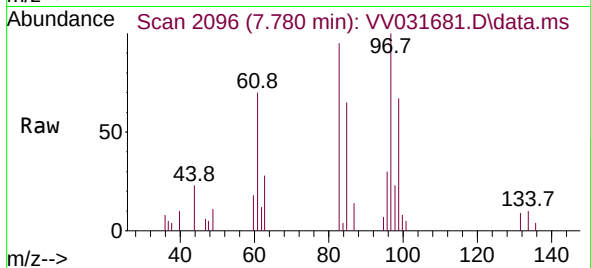
Ion Ratio Lower Upper

97 100

99 66.7 45.2 84.0

83 94.6 59.5 110.5

85 64.9 38.6 71.8



#46

Tetrachloroethene

Concen: 1.831 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Tgt Ion:164 Resp: 3793

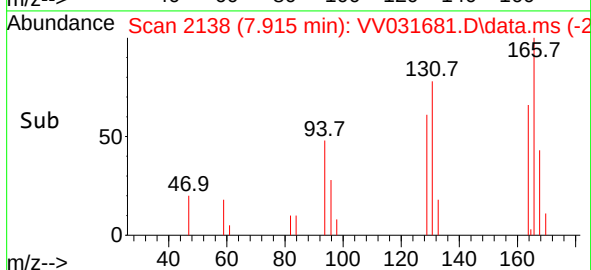
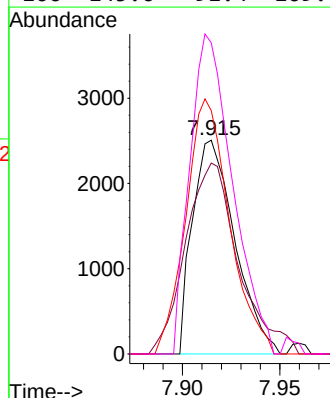
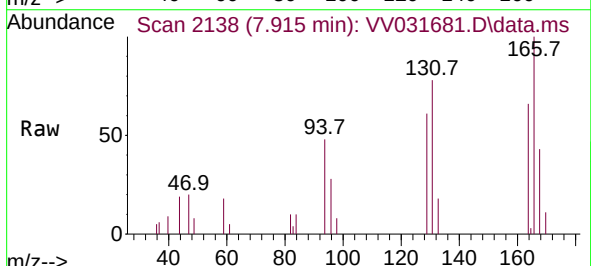
Ion Ratio Lower Upper

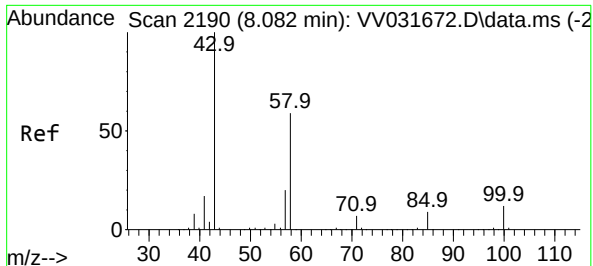
164 100

129 89.3 65.2 121.0

131 113.8 67.1 124.7

166 145.6 91.4 169.8

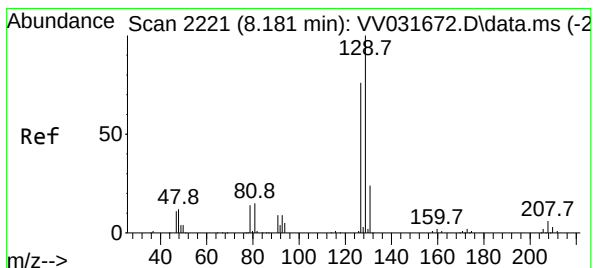
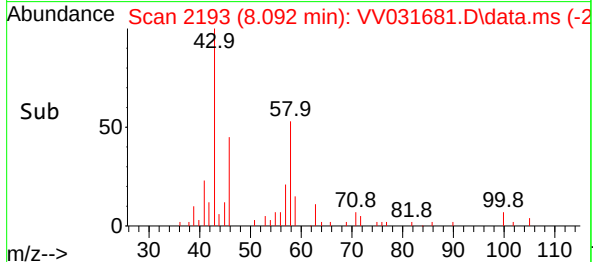
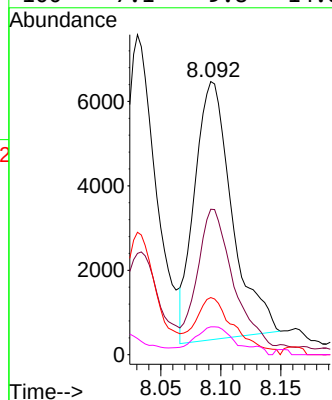
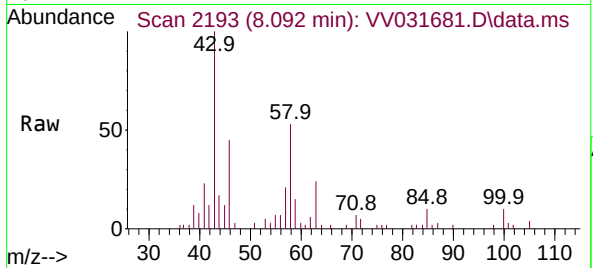




#48
2-Hexanone
Concen: 4.704 ug/L
RT: 8.092 min Scan# 2190
Delta R.T. 0.010 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

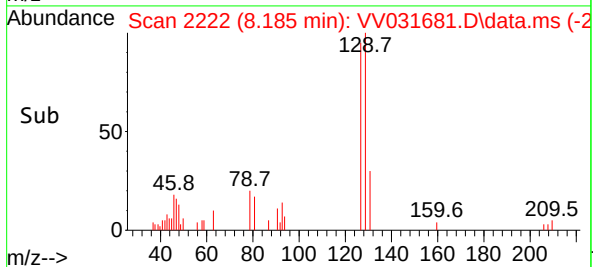
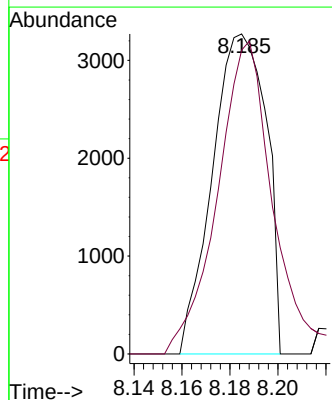
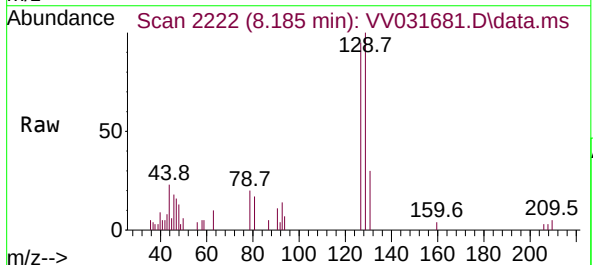
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT3-2023-05

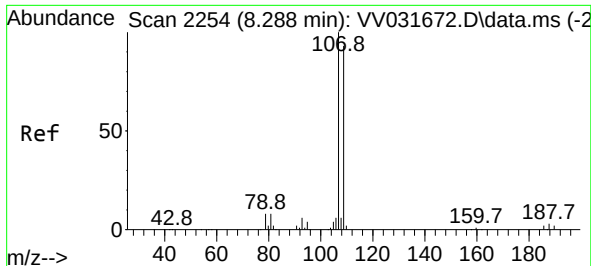
Tgt Ion: 43	Resp: 13309
Ion Ratio	Lower Upper
43 100	
58 51.3	46.3 69.5
57 22.7	16.8 25.2
100 7.1	9.8 14.8#



#49
Dibromochloromethane
Concen: 1.713 ug/L
RT: 8.185 min Scan# 2222
Delta R.T. 0.003 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion:129	Resp: 5099		
Ion Ratio	Lower	Upper	
129 100			
127 95.0	55.2	102.6	





#50

1,2-Dibromoethane

Concen: 2.128 ug/L

RT: 8.291 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

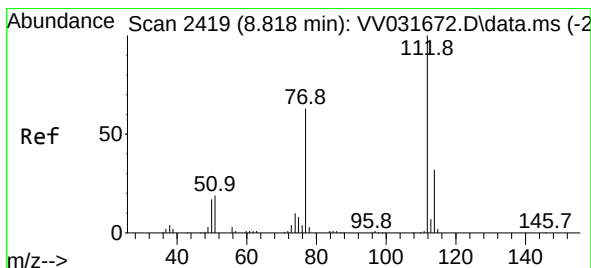
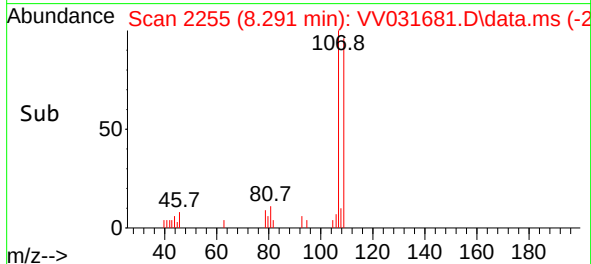
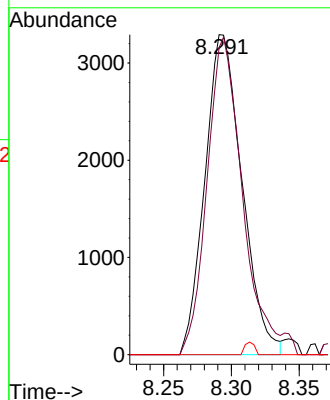
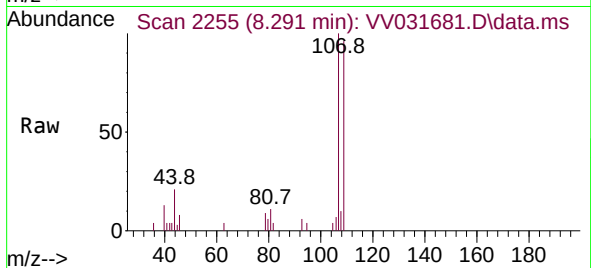
Tgt Ion:107 Resp: 6283

Ion Ratio Lower Upper

107 100

109 87.5 65.4 121.4

188 0.0 2.8 4.2#



#51

Chlorobenzene

Concen: 2.258 ug/L

RT: 8.821 min Scan# 2420

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

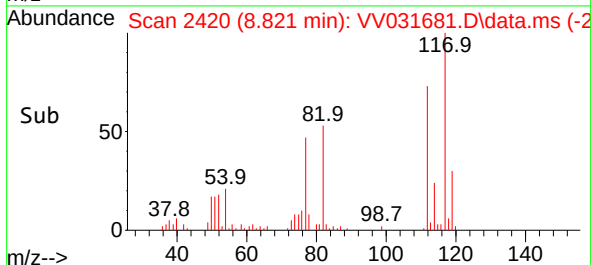
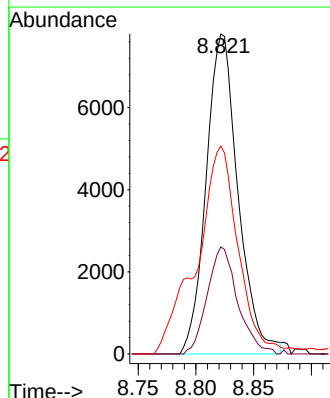
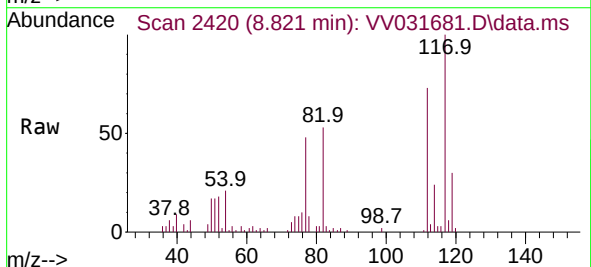
Tgt Ion:112 Resp: 14964

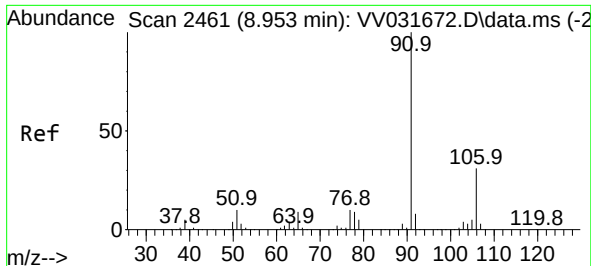
Ion Ratio Lower Upper

112 100

114 31.8 22.2 41.2

77 61.8 50.6 76.0

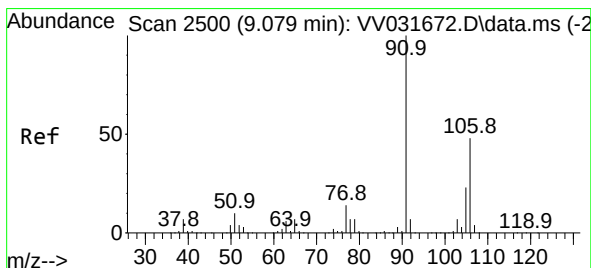
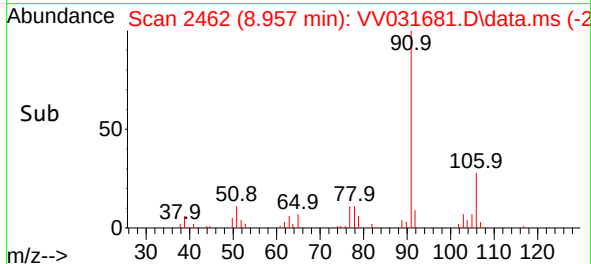
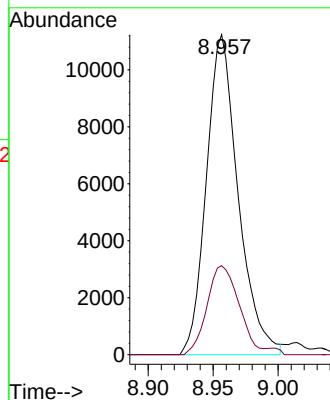
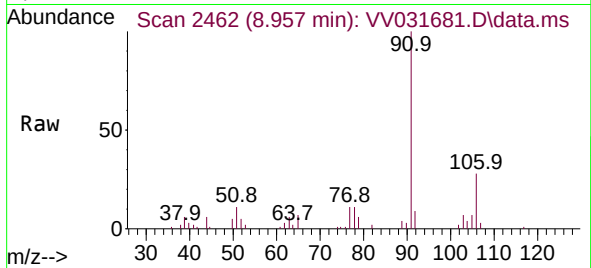




#52
Ethylbenzene
Concen: 1.756 ug/L
RT: 8.957 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

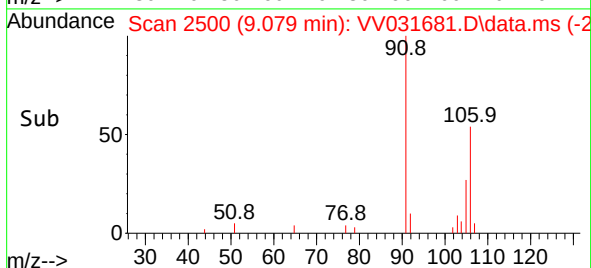
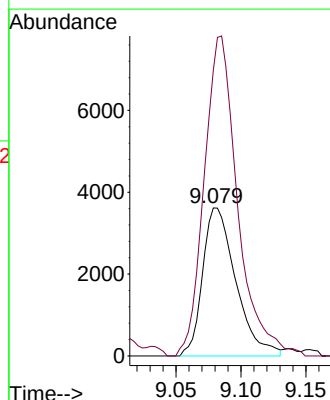
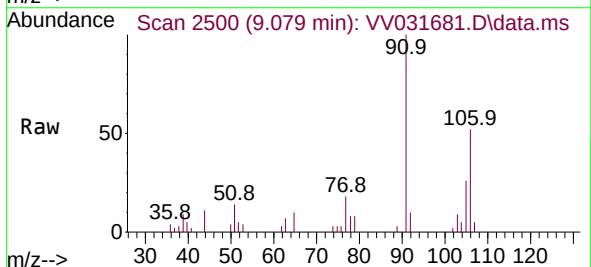
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT3-2023-05

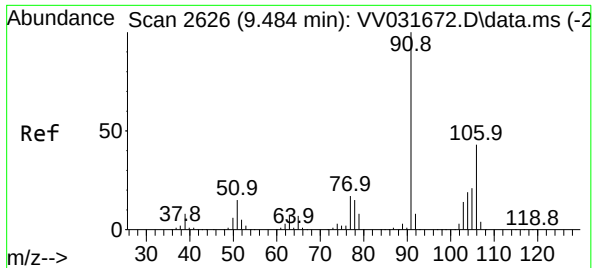
Tgt Ion: 91 Resp: 19103
Ion Ratio Lower Upper
91 100
106 27.8 21.5 39.9



#53
m,p-Xylene
Concen: 1.605 ug/L
RT: 9.079 min Scan# 2500
Delta R.T. 0.000 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion:106 Resp: 6436
Ion Ratio Lower Upper
106 100
91 193.0 145.6 270.4

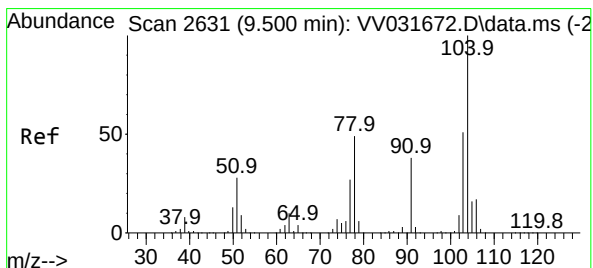
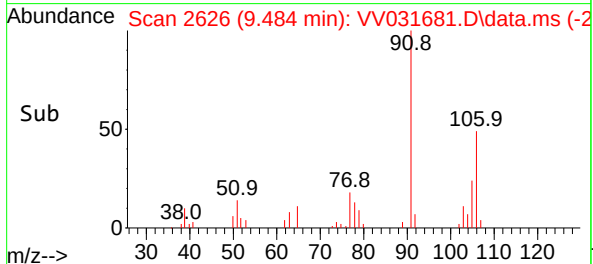
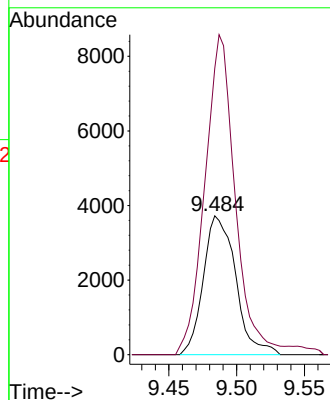
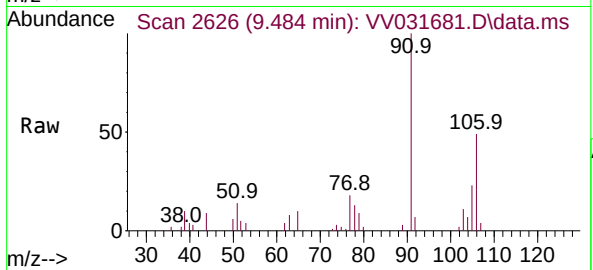




#54
o-Xylene
Concen: 1.664 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.000 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

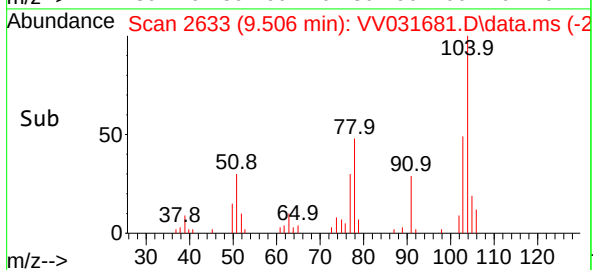
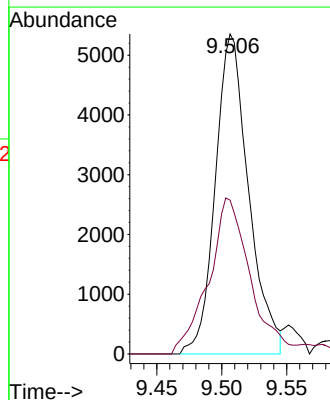
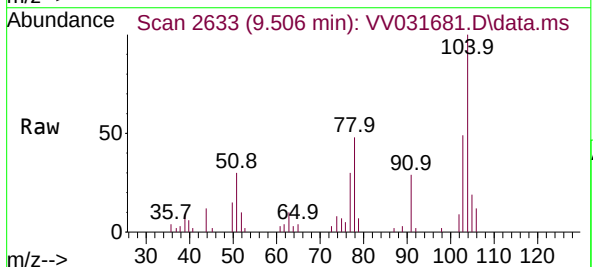
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT3-2023-05

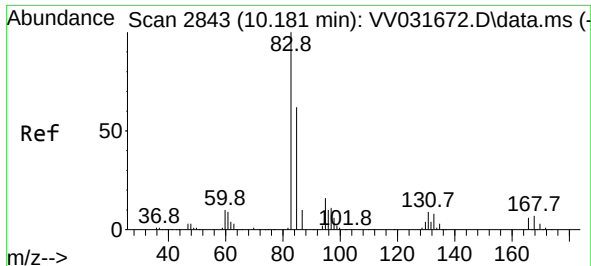
Tgt Ion:106 Resp: 6182
Ion Ratio Lower Upper
106 100
91 206.1 163.0 302.6



#55
Styrene
Concen: 1.394 ug/L
RT: 9.506 min Scan# 2633
Delta R.T. 0.007 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion:104 Resp: 9533
Ion Ratio Lower Upper
104 100
78 48.0 34.4 64.0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.506 ug/L

RT: 10.185 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

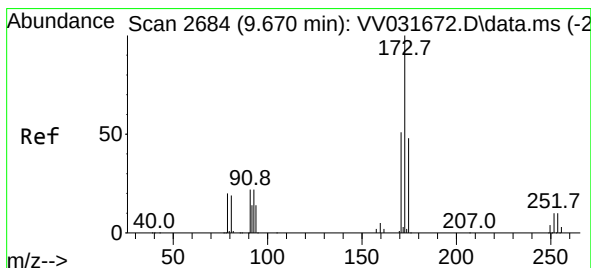
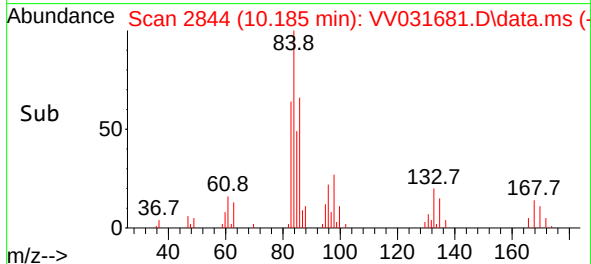
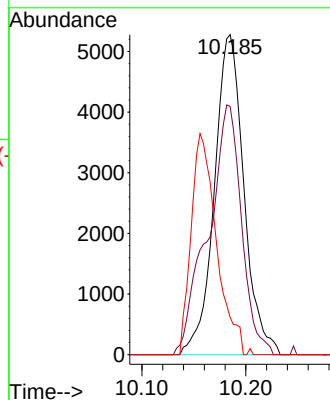
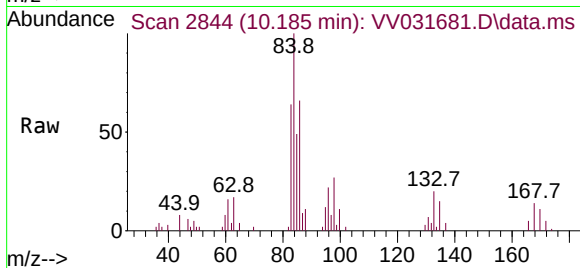
Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

Tgt Ion:	83	Resp:	10428
Ion	Ratio	Lower	Upper
83	100		
85	77.6	43.4	80.6
131	11.7	10.9	16.3



#59

Bromoform

Concen: 2.012 ug/L

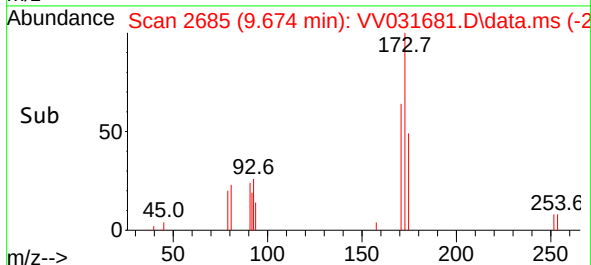
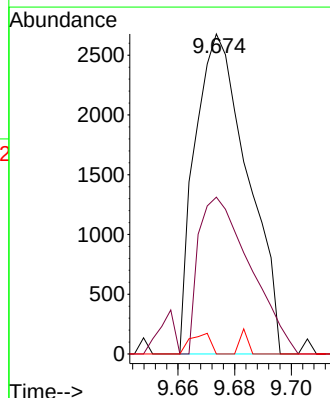
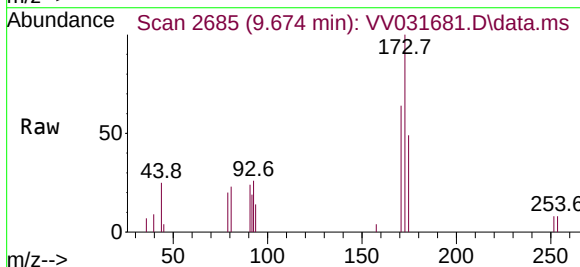
RT: 9.674 min Scan# 2685

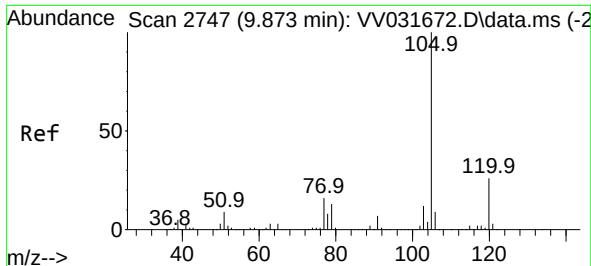
Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Tgt Ion:	173	Resp:	3452
Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.6	58.0
254	2.5	6.9	10.3

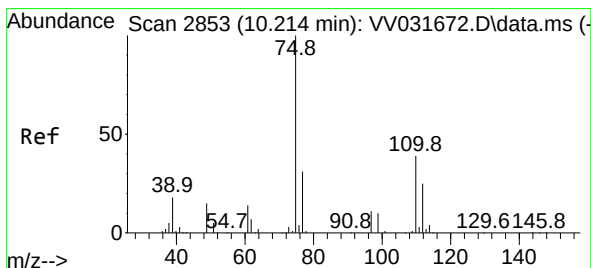
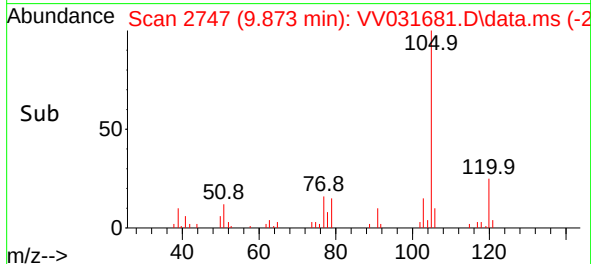
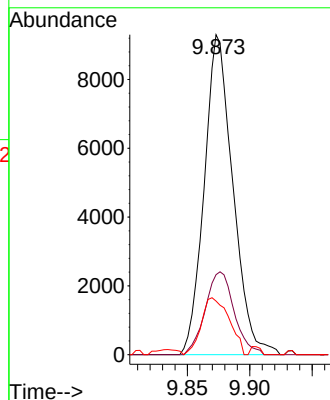
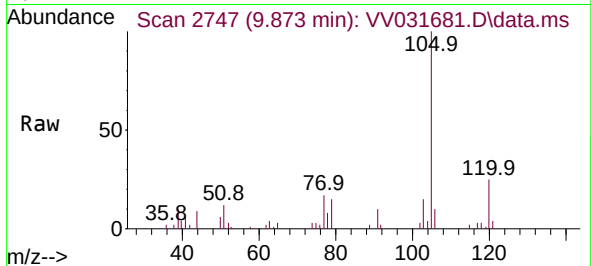




#60
Isopropylbenzene
Concen: 1.815 ug/L
RT: 9.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

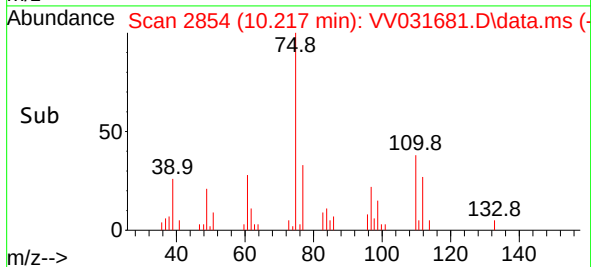
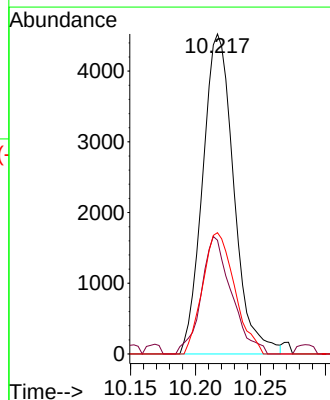
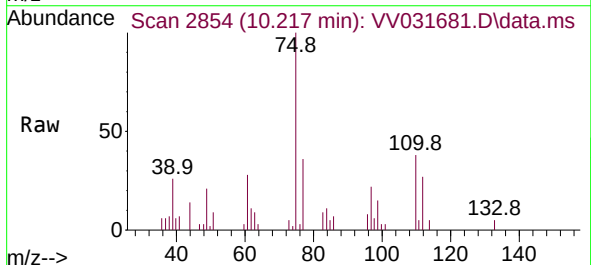
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT3-2023-05

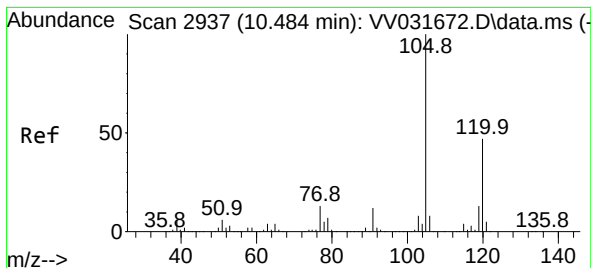
Tgt Ion:105 Resp: 14876
Ion Ratio Lower Upper
105 100
120 26.2 20.6 30.8
77 17.3 13.2 19.8



#61
1,2,3-Trichloropropane
Concen: 2.707 ug/L
RT: 10.217 min Scan# 2854
Delta R.T. 0.003 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion: 75 Resp: 7560
Ion Ratio Lower Upper
75 100
77 35.6 25.1 37.7
110 38.8 31.4 47.0





#62

1,3,5-Trimethylbenzene

Concen: 1.846 ug/L

RT: 10.484 min Scan# 2937

Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

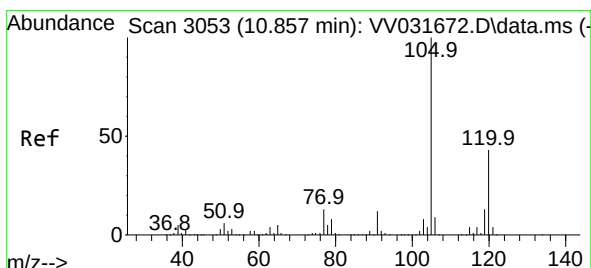
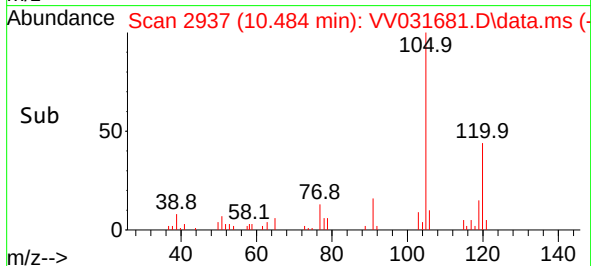
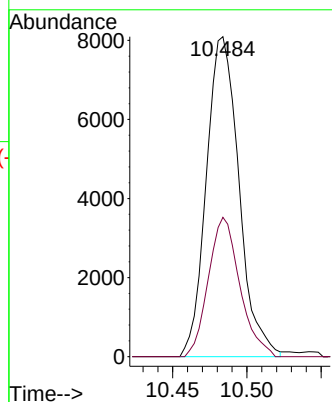
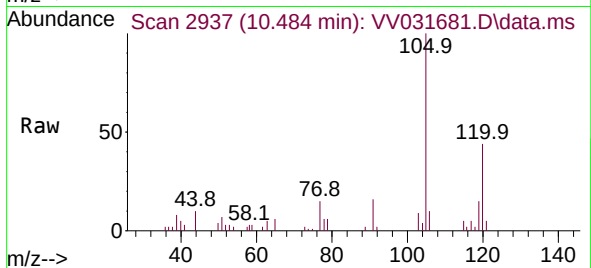
MDL-WATER-QT3-2023-05

Tgt Ion:105 Resp: 12367

Ion Ratio Lower Upper

105 100

120 42.0 37.4 56.0



#63

1,2,4-Trimethylbenzene

Concen: 1.773 ug/L

RT: 10.860 min Scan# 3054

Delta R.T. 0.003 min

Lab File: VV031681.D

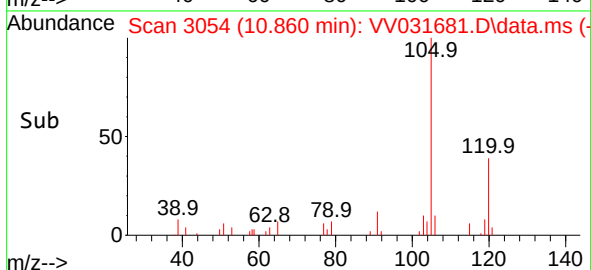
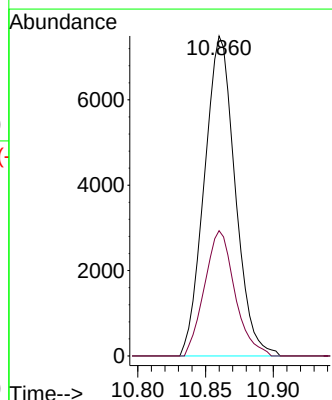
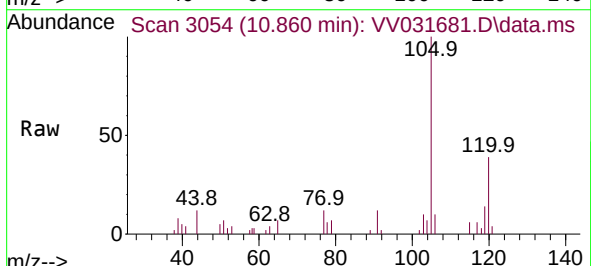
Acq: 11 Jul 2023 16:06

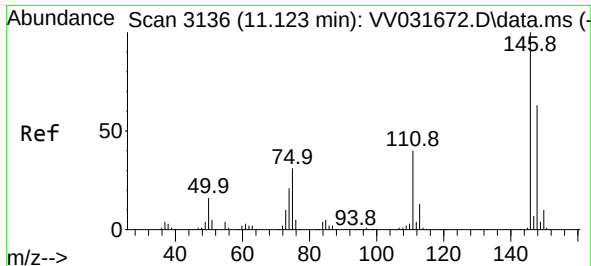
Tgt Ion:105 Resp: 11827

Ion Ratio Lower Upper

105 100

120 38.6 34.7 52.1





#64

1,3-Dichlorobenzene

Concen: 2.211 ug/L

RT: 11.127 min Scan# 3136

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

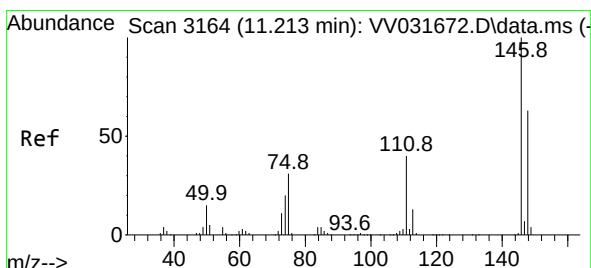
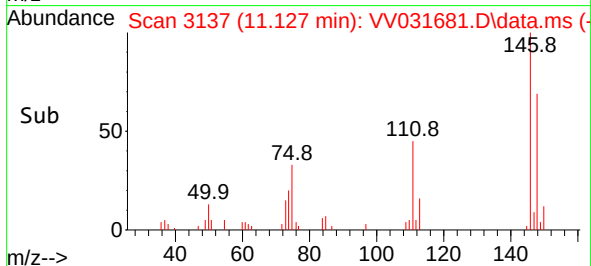
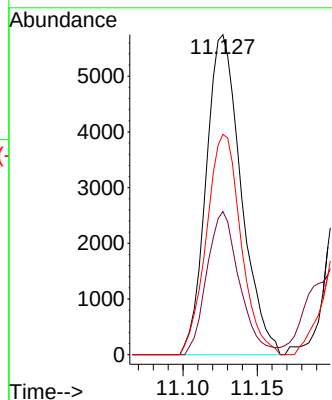
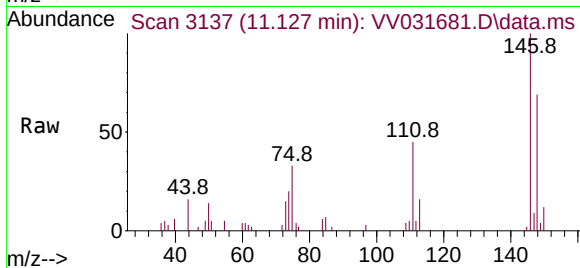
Tgt Ion:146 Resp: 9416

Ion Ratio Lower Upper

146 100

111 49.4 28.3 52.5

148 68.9 44.2 82.2



#65

1,4-Dichlorobenzene

Concen: 2.306 ug/L

RT: 11.217 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

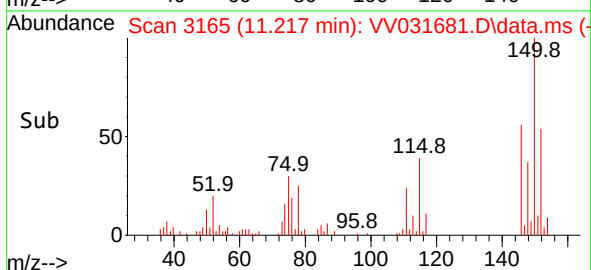
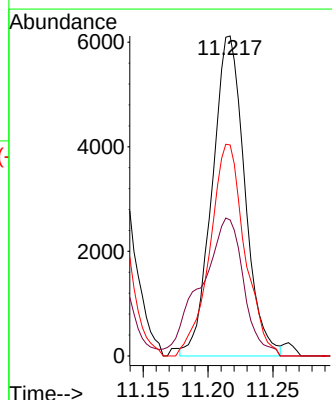
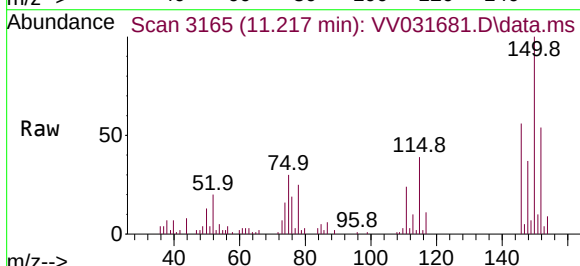
Tgt Ion:146 Resp: 10651

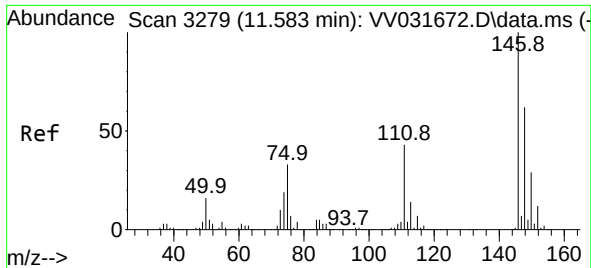
Ion Ratio Lower Upper

146 100

111 42.5 28.3 52.7

148 66.0 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 2.683 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

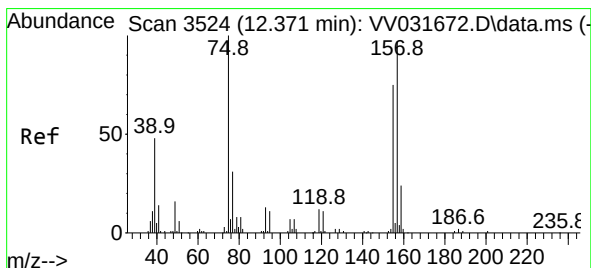
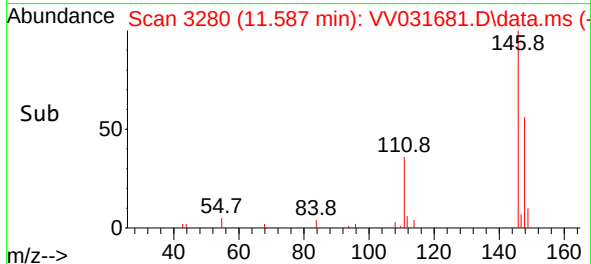
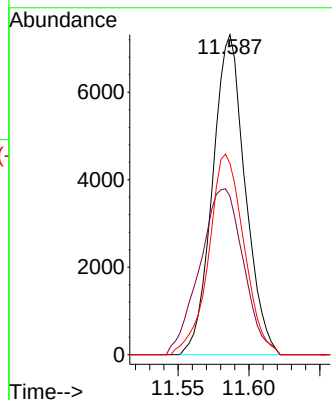
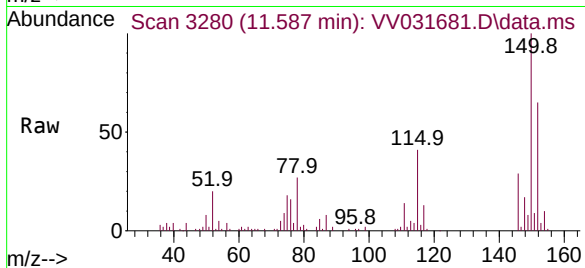
Tgt Ion:146 Resp: 11716

Ion Ratio Lower Upper

146 100

111 51.7 34.8 52.2

148 56.0 49.8 74.6



#68

1,2-Dibromo-3-chloropropane

Concen: 2.859 ug/L

RT: 12.371 min Scan# 3524

Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

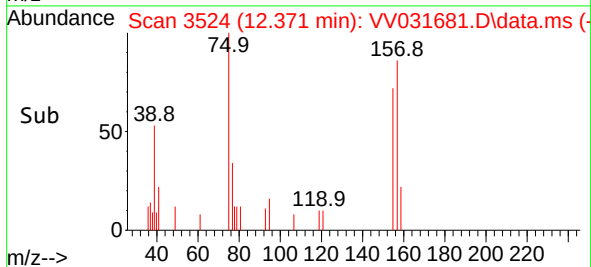
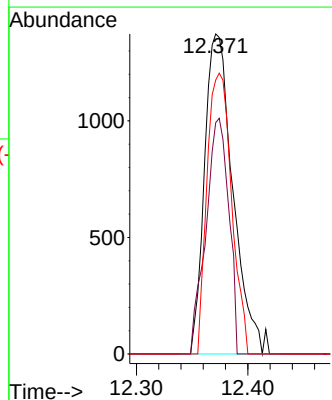
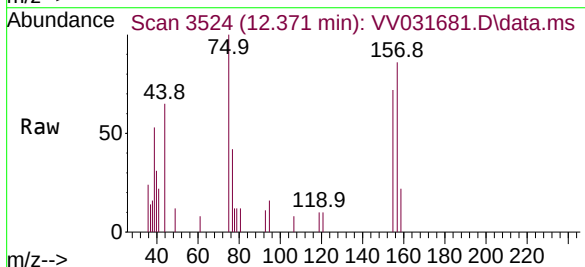
Tgt Ion: 75 Resp: 2436

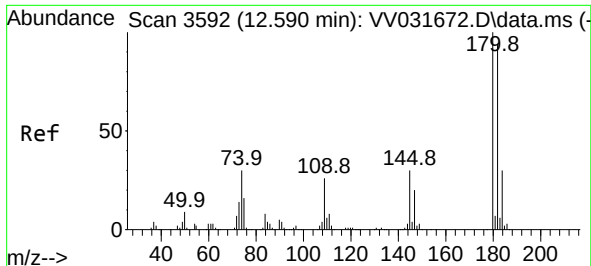
Ion Ratio Lower Upper

75 100

155 72.3 59.9 89.9

157 85.6 77.6 116.4





#69

1,3,5-Trichlorobenzene

Concen: 2.344 ug/L

RT: 12.590 min Scan# 3592

Delta R.T. 0.000 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT3-2023-05

Tgt Ion:180 Resp: 7476

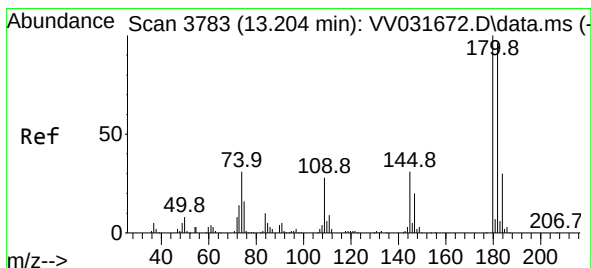
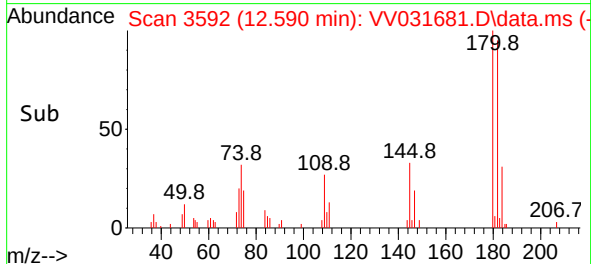
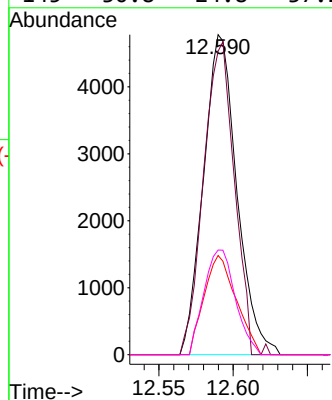
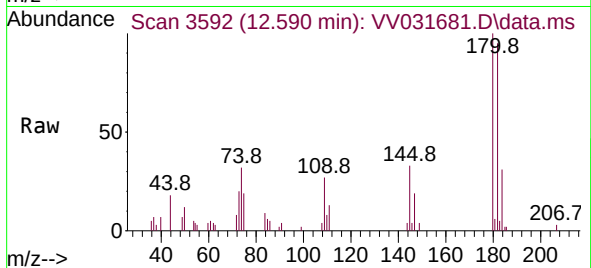
Ion Ratio Lower Upper

180 100

182 89.5 75.5 113.3

184 29.7 23.7 35.5

145 30.8 24.8 37.2



#70

1,2,4-trichlorobenzene

Concen: 2.273 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.003 min

Lab File: VV031681.D

Acq: 11 Jul 2023 16:06

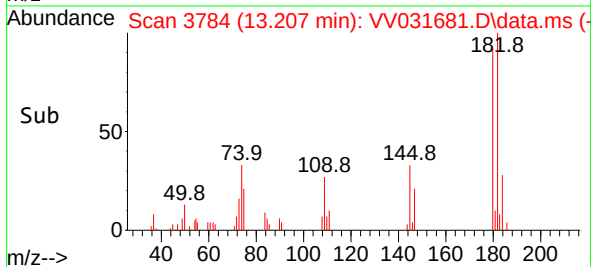
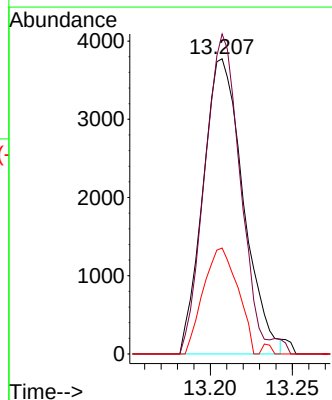
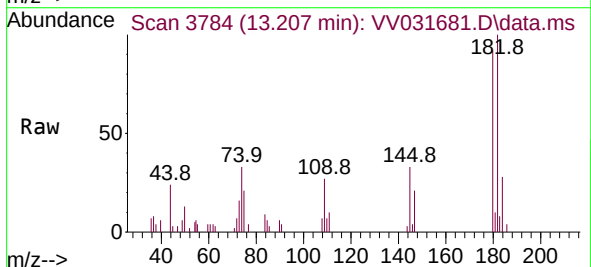
Tgt Ion:180 Resp: 6425

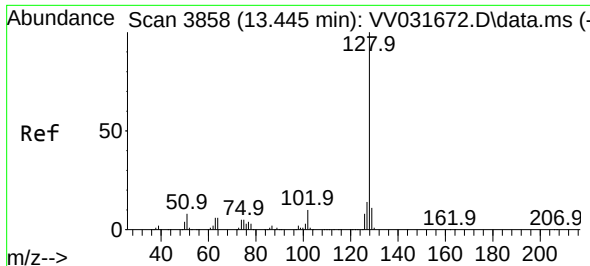
Ion Ratio Lower Upper

180 100

182 95.1 76.6 114.8

145 30.7 25.4 38.2

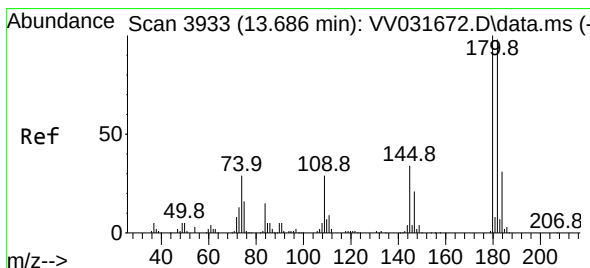
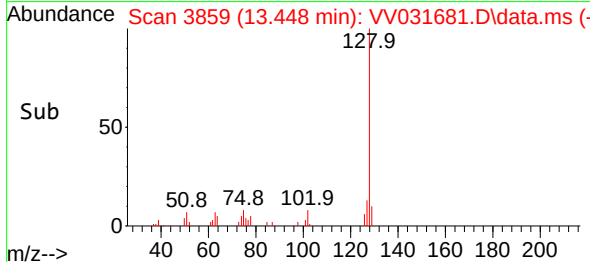
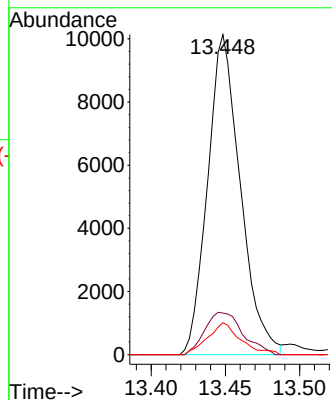
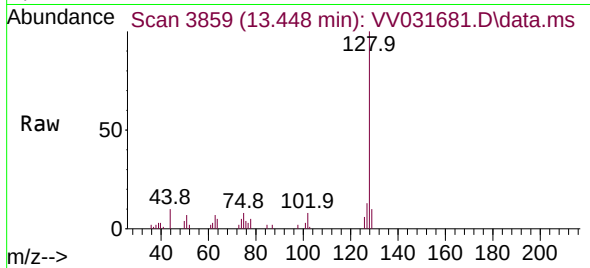




#71
Naphthalene
Concen: 1.900 ug/L
RT: 13.448 min Scan# 3858
Delta R.T. 0.003 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT3-2023-05

Tgt Ion:	128	Resp:	15544
Ion Ratio	Lower	Upper	
128	100		
127	15.4	11.0	16.4
129	10.0	8.6	13.0



#72
1,2,3-Trichlorobenzene
Concen: 2.214 ug/L
RT: 13.686 min Scan# 3933
Delta R.T. 0.000 min
Lab File: VV031681.D
Acq: 11 Jul 2023 16:06

Tgt Ion:	180	Resp:	6562
Ion Ratio	Lower	Upper	
180	100		
182	88.6	76.7	115.1
145	28.1	27.7	41.5

