

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010621\
 Data File : VX020512.D
 Acq On : 06 Jan 2021 10:54
 Operator : JC/MD
 Sample : L5214-02
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

Quant Time: Jan 07 01:48:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXTR010521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jan 07 01:47:26 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.82	114	185155	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.09	117	189878	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.06	152	80774	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	62092	4.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.20%
7) Chloroethane-d5	1.70	69	57556	4.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.40%
11) 1,1-Dichloroethene-d2	2.34	63	99712	3.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.00%
20) 2-Butanone-d5	4.54	46	143559	44.48	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.96%
24) Chloroform-d	5.13	84	124607	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
26) 1,2-Dichloroethane-d4	6.03	65	66081	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	6.04	84	255733	4.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.20%
36) 1,2-Dichloropropane-d6	7.36	67	77736	4.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.40%
41) Toluene-d8	8.69	98	226251	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.00%
43) trans-1,3-Dichloropropene-	8.99	79	27258	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
46) 2-Hexanone-d5	9.43	63	129065	44.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.50%
56) 1,1,2,2-Tetrachloroethane-	11.23	84	56158	4.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.40%
66) 1,2-Dichlorobenzene-d4	12.36	152	76795	4.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.18	85	4585	0.228	ug/L	97
3) Chloromethane	1.31	50	4159	0.238	ug/L	91
5) Vinyl chloride	1.39	62	4520	0.238	ug/L #	80
6) Bromomethane	1.64	94	2702	0.263	ug/L	100
8) Chloroethane	1.72	64	2951	0.262	ug/L	99
9) Trichlorofluoromethane	1.92	101	5429	0.223	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.36	101	4061	0.290	ug/L #	81
12) 1,1-Dichloroethene	2.36	96	3850	0.282	ug/L #	1
13) Acetone	2.44	43	5056	2.705	ug/L	100
14) Carbon disulfide	2.55	76	10592	0.229	ug/L #	89
15) Methyl Acetate	2.75	43	1192	0.226	ug/L #	84
16) Methylene chloride	2.83	84	7367	0.434	ug/L	99
17) Methyl tert-butyl Ether	3.16	73	6477	0.208	ug/L	98
18) trans-1,2-Dichloroethene	3.14	96	3340	0.220	ug/L	97
19) 1,1-Dichloroethane	3.67	63	5722	0.212	ug/L	94
21) 2-Butanone	4.65	43	7497	2.350	ug/L	95
22) cis-1,2-Dichloroethene	4.56	96	3417	0.215	ug/L	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

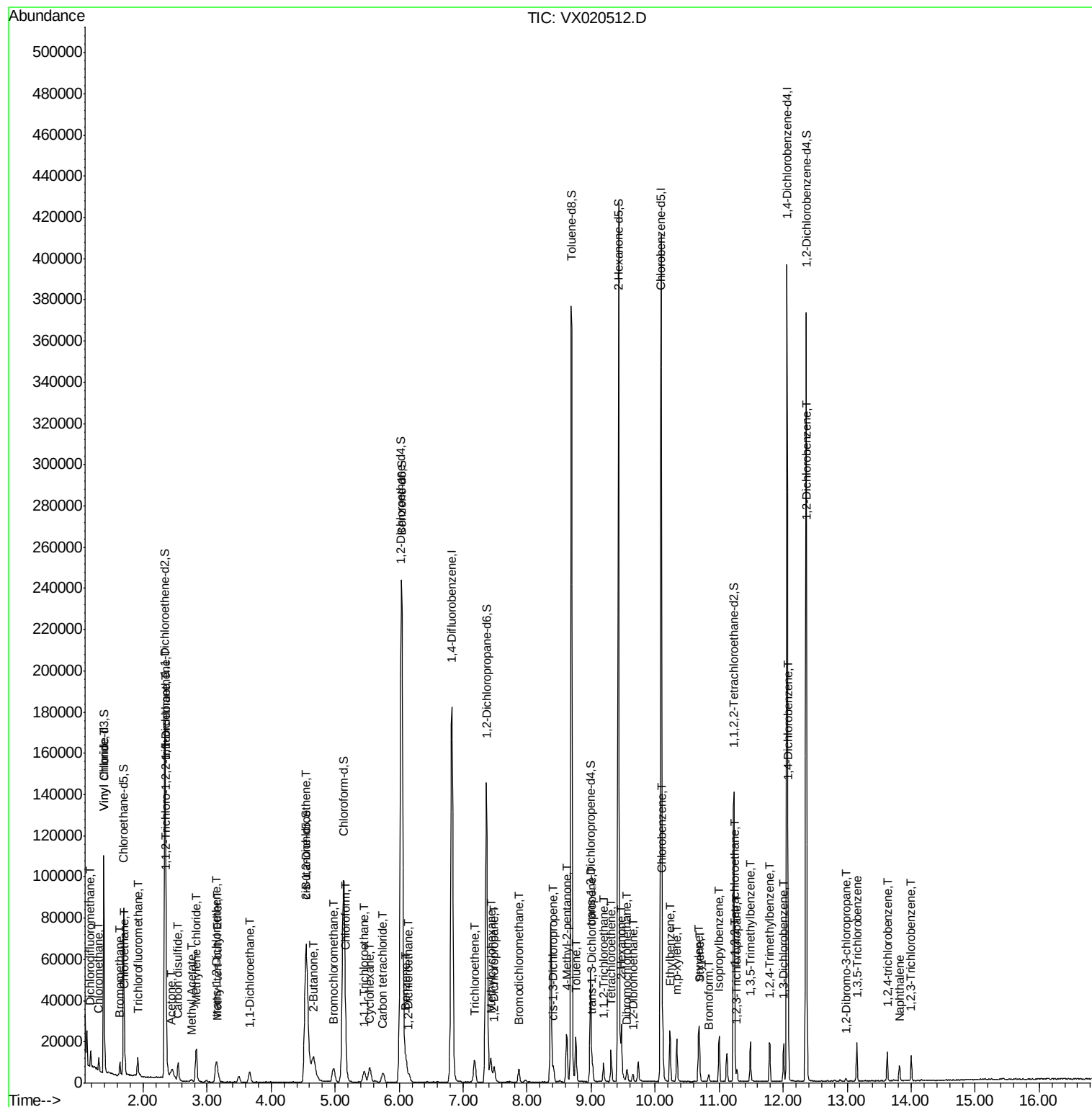
23) Bromochloromethane	4.98	128	3067	0.435	ug/L	94
25) Chloroform	5.17	83	7759	0.273	ug/L	96
27) 1,2-Dichloroethane	6.15	62	3775	0.231	ug/L #	91
29) 1,1,1-Trichloroethane	5.45	97	5315	0.211	ug/L	98
30) Cyclohexane	5.53	56	4202	0.177	ug/L	98
31) Carbon tetrachloride	5.74	117	4198	0.194	ug/L	96
33) Benzene	6.10	78	13593	0.210	ug/L	100
34) Trichloroethene	7.18	95	3416	0.203	ug/L	89
35) Methylcyclohexane	7.43	83	4479	0.177	ug/L	98
37) 1,2-Dichloropropane	7.49	63	3315	0.207	ug/L	100
38) Bromodichloromethane	7.87	83	3965	0.203	ug/L #	95
39) cis-1,3-Dichloropropene	8.41	75	4055	0.187	ug/L	90
40) 4-Methyl-2-pentanone	8.62	43	13049	1.666	ug/L #	87
42) Toluene	8.76	91	13511	0.200	ug/L	98
44) trans-1,3-Dichloropropene	9.02	75	4577	0.251	ug/L	98
45) 1,1,2-Trichloroethane	9.20	97	2361	0.209	ug/L	94
47) Tetrachloroethene	9.32	164	2886	0.212	ug/L	92
48) 2-Hexanone	9.47	43	12619	2.336	ug/L	97
49) Dibromochloromethane	9.56	129	2528	0.206	ug/L	96
50) 1,2-Dibromoethane	9.65	107	2165	0.214	ug/L	94
51) Chlorobenzene	10.12	112	9023	0.213	ug/L	92
52) Ethylbenzene	10.23	91	13937	0.199	ug/L	98
53) m,p-xylene	10.34	106	5080	0.190	ug/L	94
54) o-xylene	10.68	106	4399	0.173	ug/L	98
55) Styrene	10.70	104	7152	0.167	ug/L	99
57) 1,1,2,2-Tetrachloroethane	11.25	83	2933	0.233	ug/L	93
59) Bromoform	10.84	173	1371	0.246	ug/L	92
60) Isopropylbenzene	11.00	105	11212	0.200	ug/L	99
61) 1,2,3-Trichloropropane	11.27	75	1933	0.248	ug/L	98
62) 1,3,5-Trimethylbenzene	11.49	105	8393	0.186	ug/L	97
63) 1,2,4-Trimethylbenzene	11.79	105	8273	0.184	ug/L	98
64) 1,3-Dichlorobenzene	12.01	146	6266	0.232	ug/L	92
65) 1,4-Dichlorobenzene	12.08	146	6453	0.236	ug/L	95
67) 1,2-Dichlorobenzene	12.37	146	6110	0.243	ug/L	90
68) 1,2-Dibromo-3-chloropropan	12.98	75	320	0.191	ug/L #	74
69) 1,3,5-Trichlorobenzene	13.15	180	4605	0.224	ug/L	98
70) 1,2,4-trichlorobenzene	13.63	180	3525	0.215	ug/L	94
71) Naphthalene	13.82	128	4736	0.176	ug/L	99
72) 1,2,3-Trichlorobenzene	14.01	180	3023	0.199	ug/L	99

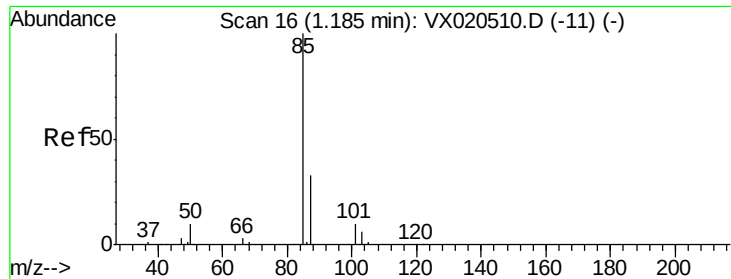
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#2

Dichlorodifluoromethane

Concen: 0.228 ug/L

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

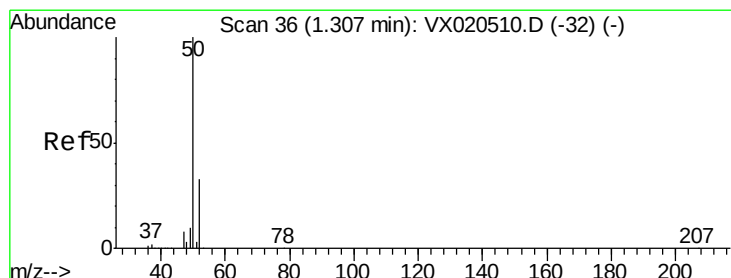
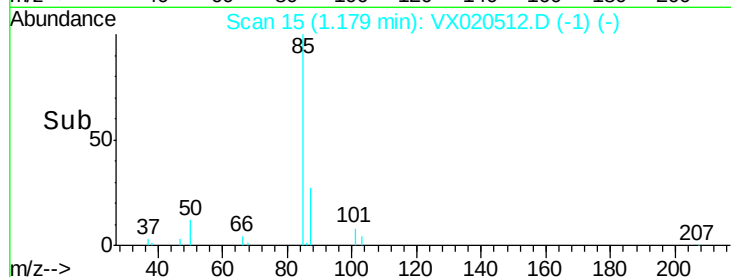
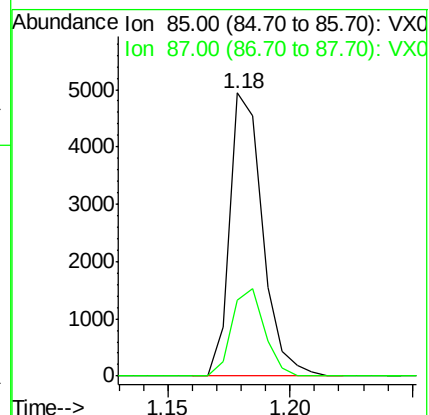
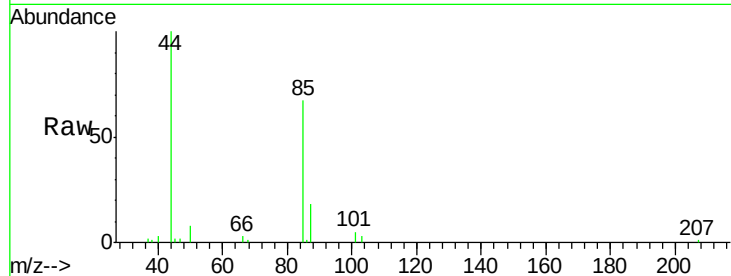
MDL-WATER-QT1-2021-02

Tot Ion: 85 Resp: 4585

Ion Ratio Lower Upper

85 100

87 30.7 25.8 38.8



#3

Chloromethane

Concen: 0.238 ug/L

RT: 1.31 min Scan# 36

Delta R.T. 0.00 min

Lab File: VX020512.D

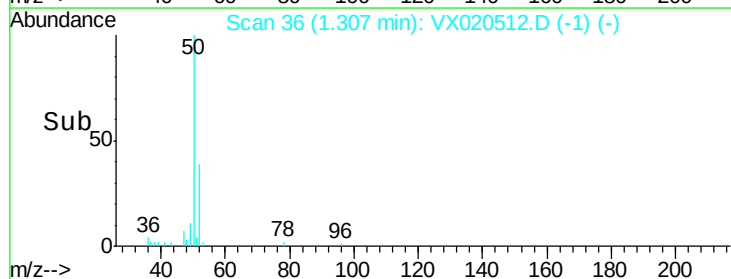
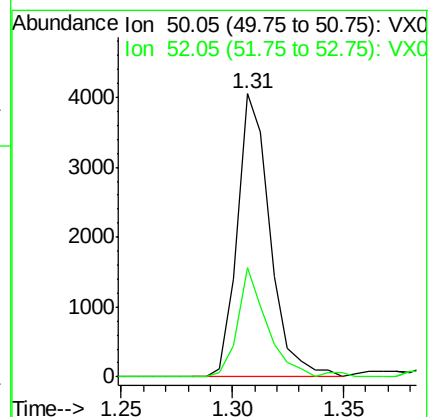
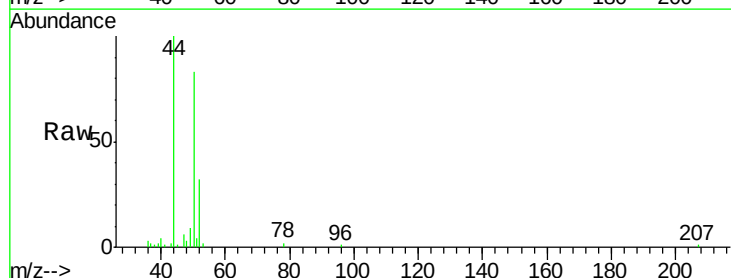
Acq: 06 Jan 2021 10:54

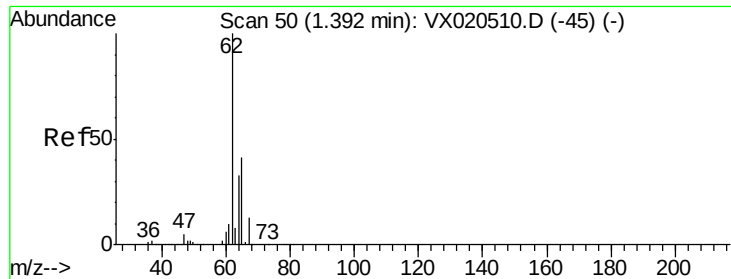
Tgt Ion: 50 Resp: 4159

Ion Ratio Lower Upper

50 100

52 38.6 23.5 43.7





#5

Vinyl chloride

Concen: 0.238 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

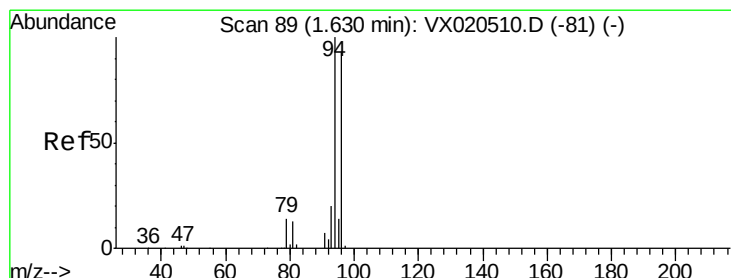
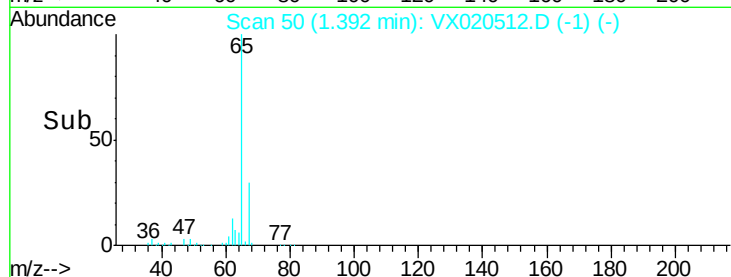
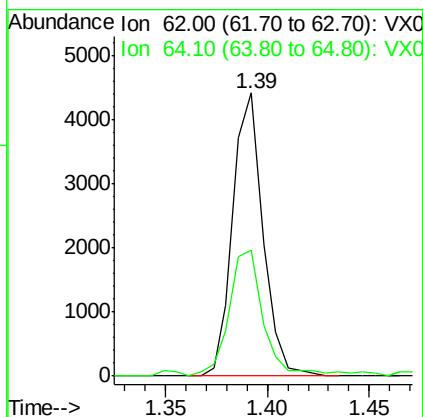
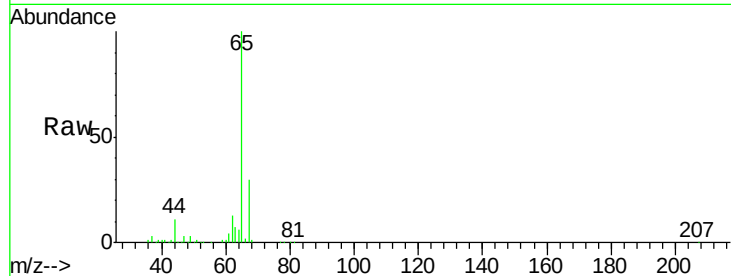
MDL-WATER-QT1-2021-02

Tot Ion: 62 Resp: 4520

Ion Ratio Lower Upper

62 100

64 44.7 23.2 43.2#



#6

Bromomethane

Concen: 0.263 ug/L

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020512.D

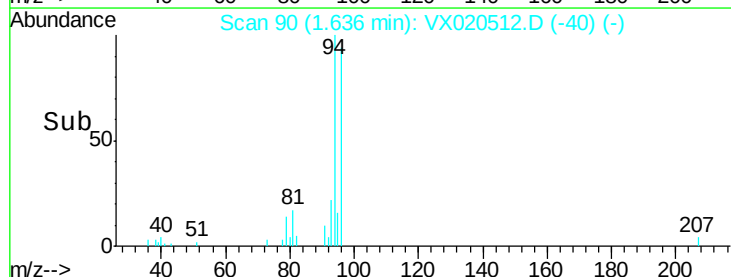
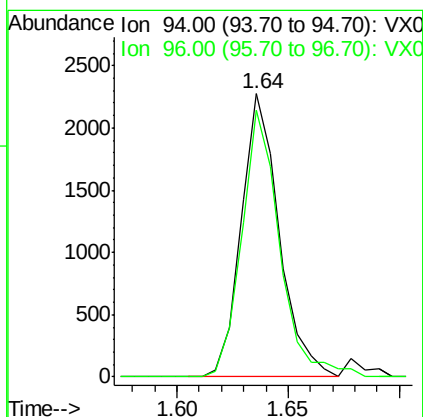
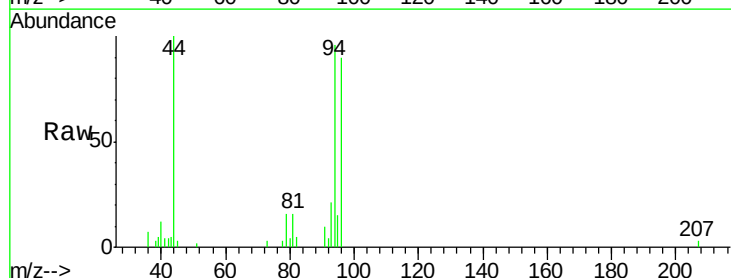
Acq: 06 Jan 2021 10:54

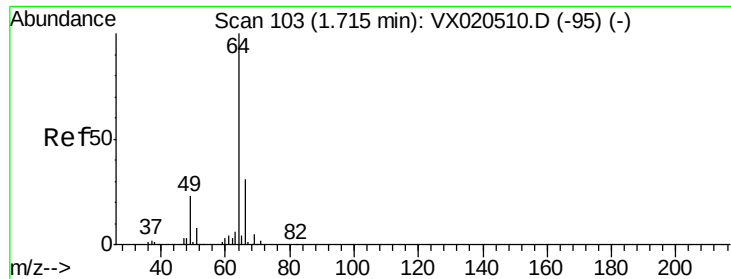
Tgt Ion: 94 Resp: 2702

Ion Ratio Lower Upper

94 100

96 94.1 65.7 121.9





#8

Chloroethane

Concen: 0.262 ug/L

RT: 1.72 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

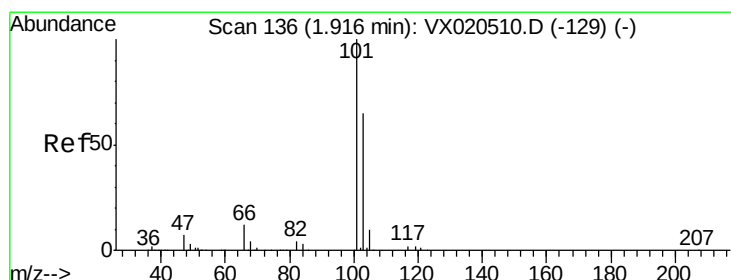
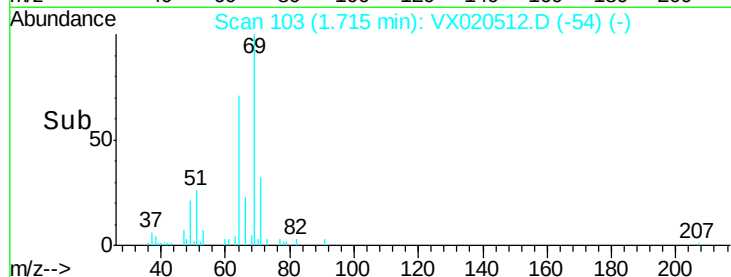
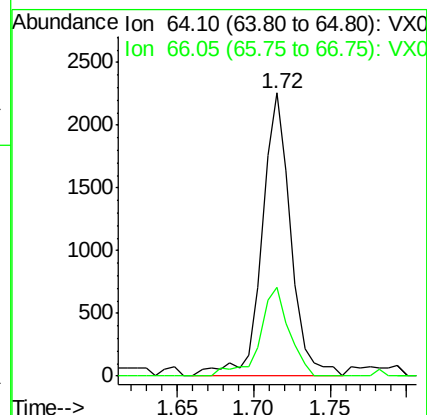
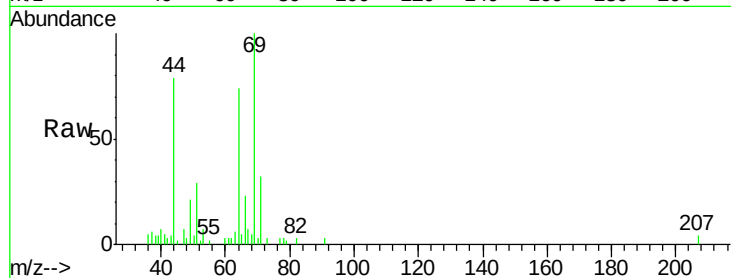
MDL-WATER-QT1-2021-02

Tot Ion: 64 Resp: 2951

Ion Ratio Lower Upper

64 100

66 31.4 21.4 39.8



#9

Trichlorofluoromethane

Concen: 0.223 ug/L

RT: 1.92 min Scan# 136

Delta R.T. 0.00 min

Lab File: VX020512.D

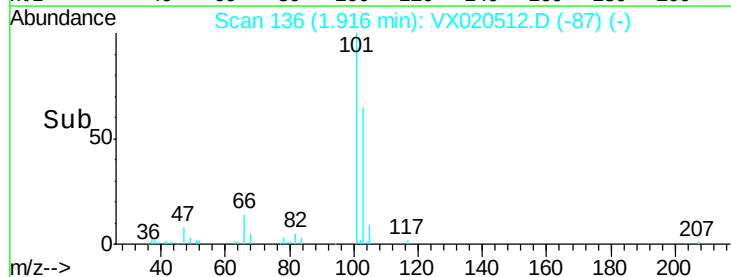
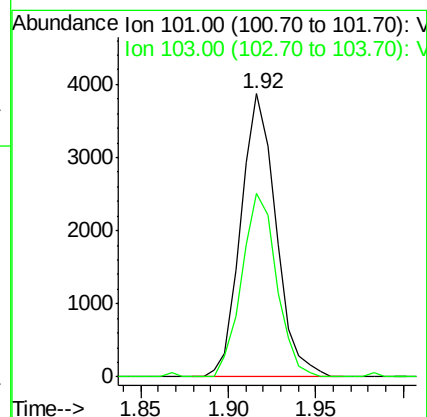
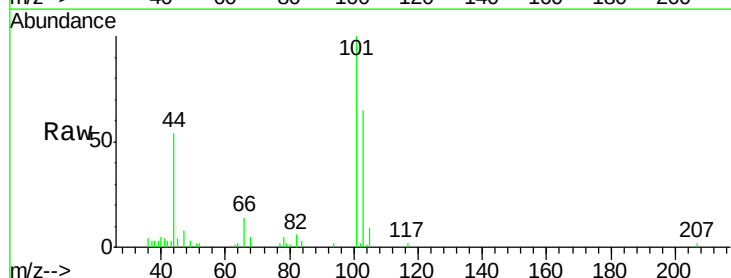
Acq: 06 Jan 2021 10:54

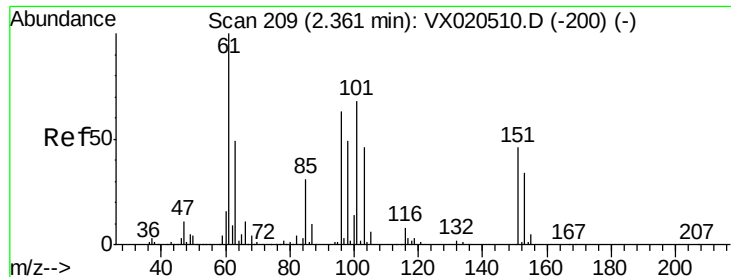
Tgt Ion: 101 Resp: 5429

Ion Ratio Lower Upper

101 100

103 64.3 51.0 76.6





#10

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

Concen: 0.290 ug/L

RT: 2.36 min Scan# 209

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

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ClientSampleId :

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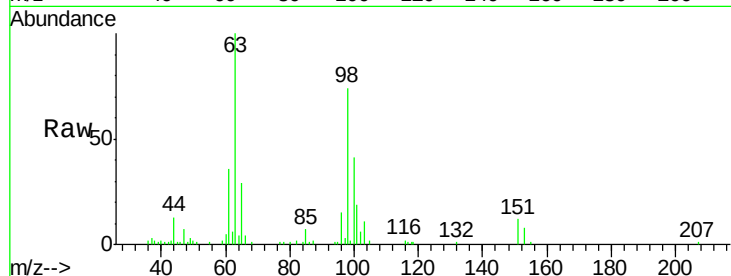
Tot Ion:101 Resp: 4061

Ion Ratio Lower Upper

101 100

85 35.3 34.9 52.3

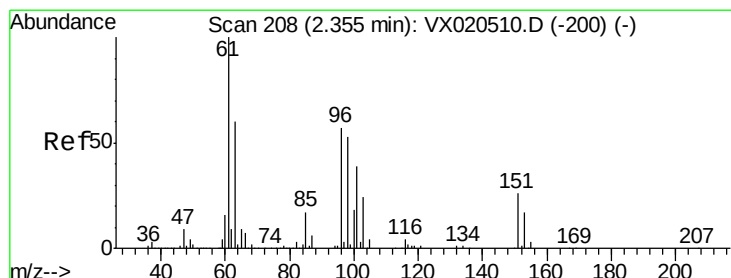
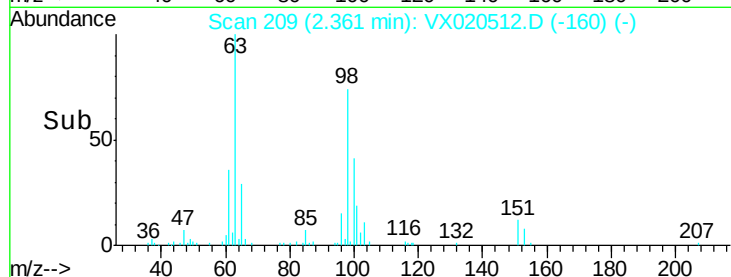
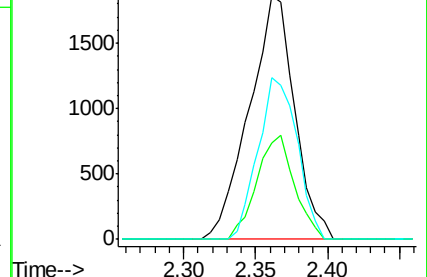
151 57.2 61.0 91.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.282 ug/L

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

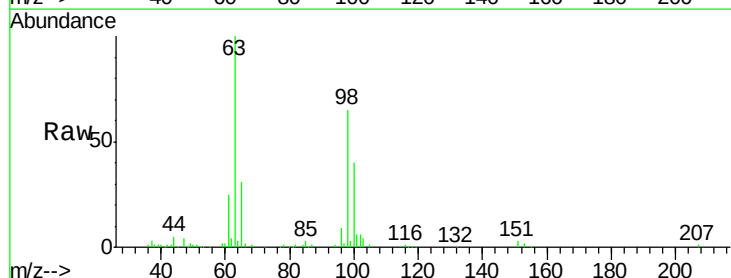
Tgt Ion: 96 Resp: 3850

Ion Ratio Lower Upper

96 100

61 272.6 118.2 219.6#

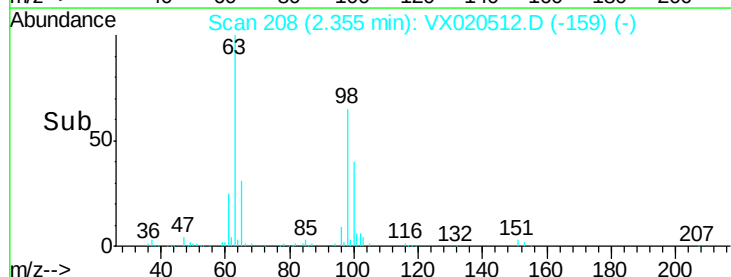
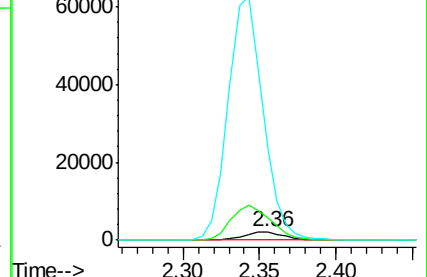
63 1101.3 74.2 137.8#

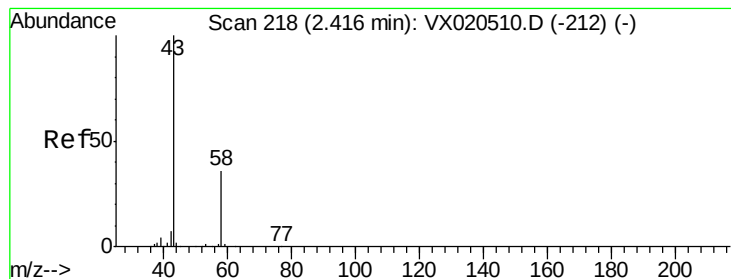


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 63.00 (62.70 to 63.70): VX0





#13

Acetone

Concen: 2.705 ug/L

RT: 2.44 min Scan# 222

Delta R.T. 0.02 min

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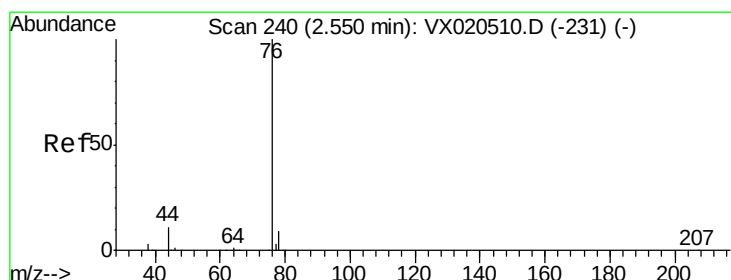
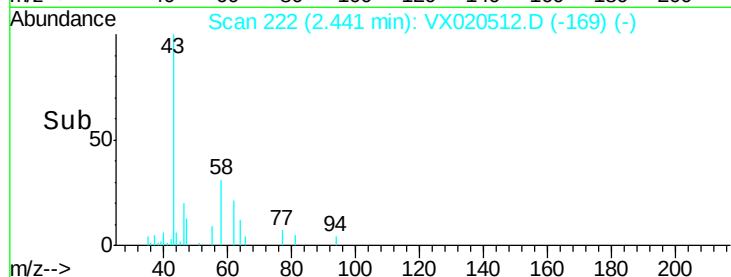
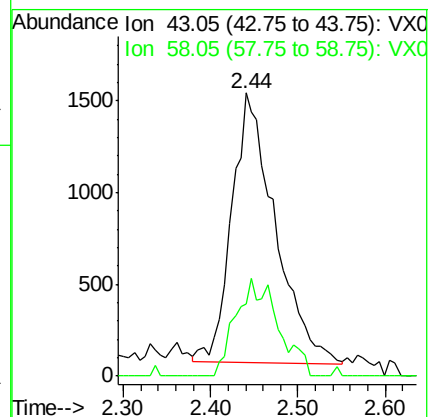
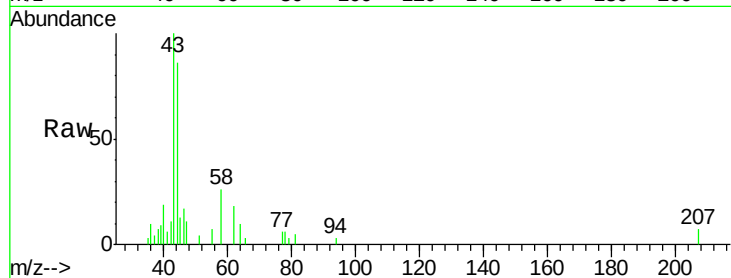
MDL-WATER-QT1-2021-02

Tot Ion: 43 Resp: 5056

Ion Ratio Lower Upper

43 100

58 35.0 0.0 70.4



#14

Carbon disulfide

Concen: 0.229 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX020512.D

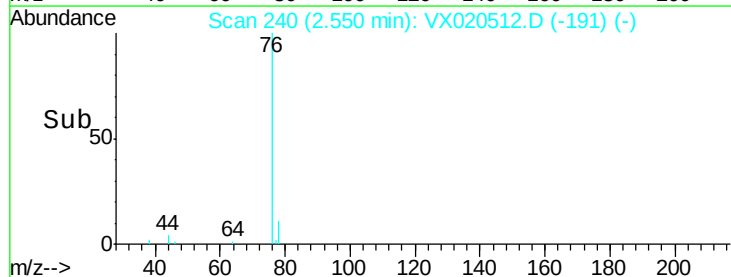
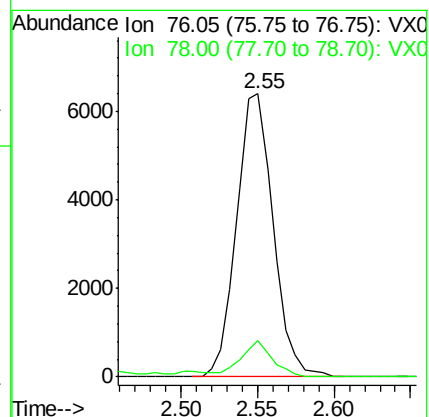
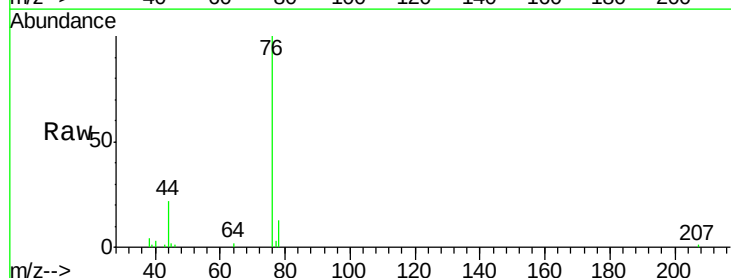
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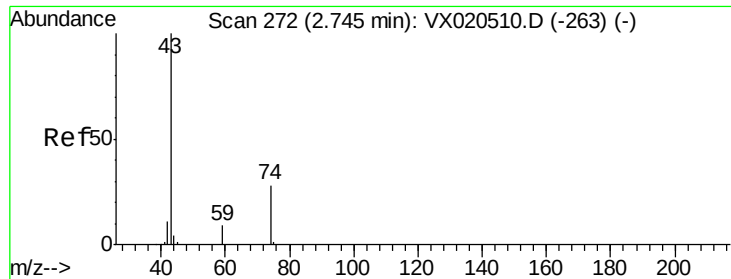
Tgt Ion: 76 Resp: 10592

Ion Ratio Lower Upper

76 100

78 12.7 7.0 10.6#

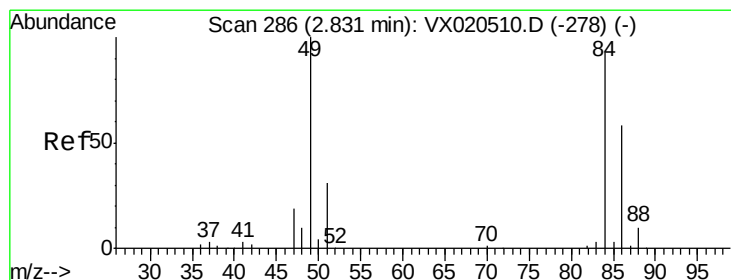
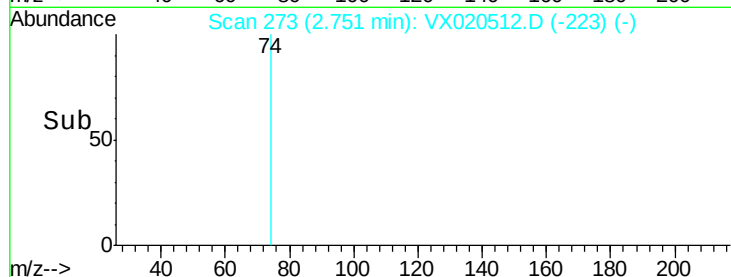
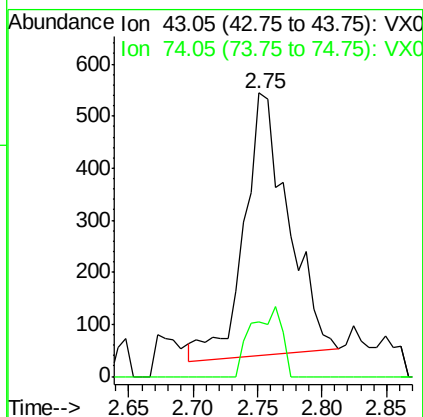
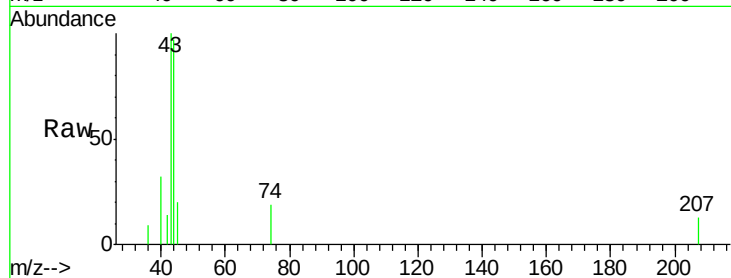




#15
Methyl Acetate
Concen: 0.226 ug/L
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

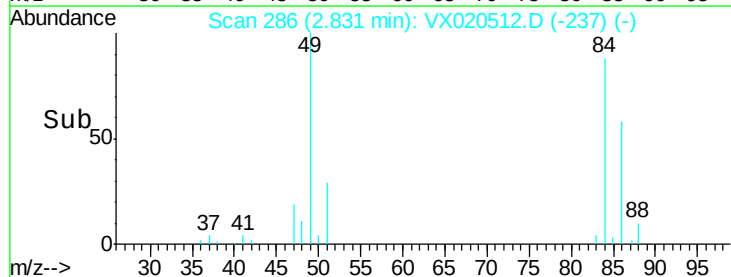
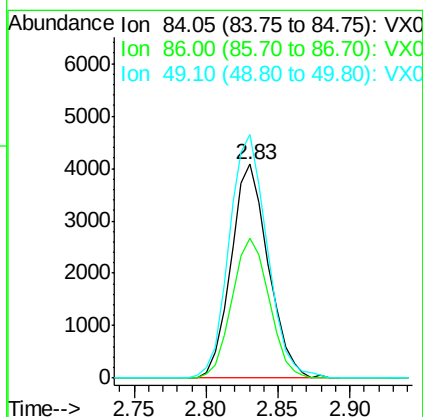
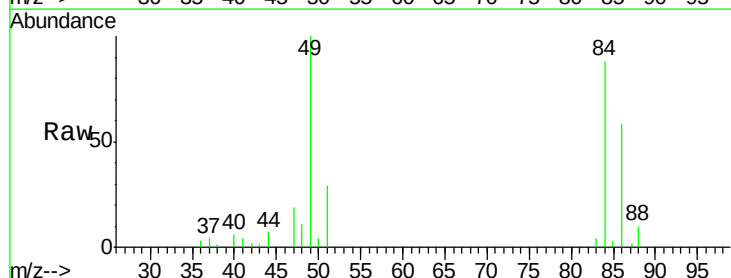
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT1-2021-02

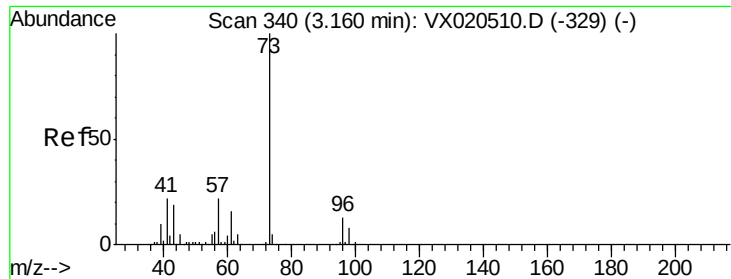
Tot Ion: 43 Resp: 1192
Ion Ratio Lower Upper
43 100
74 18.2 21.1 31.7#



#16
Methylene chloride
Concen: 0.434 ug/L
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Tgt Ion: 84 Resp: 7367
Ion Ratio Lower Upper
84 100
86 65.8 44.6 82.8
49 114.0 79.5 147.6

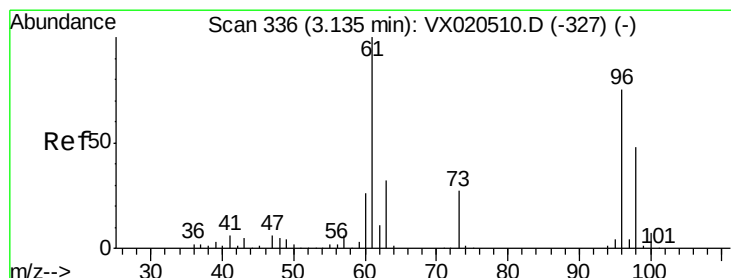
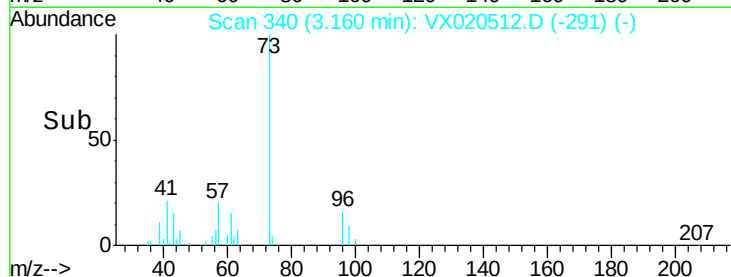
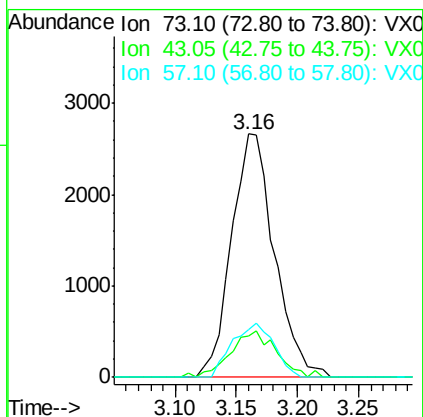
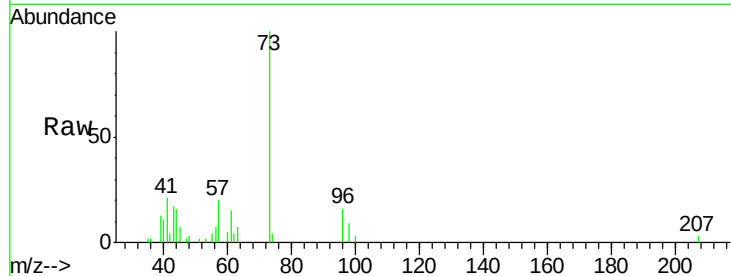




#17
Methyl tert-butyl Ether
Concen: 0.208 ug/L
RT: 3.16 min Scan# 340
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

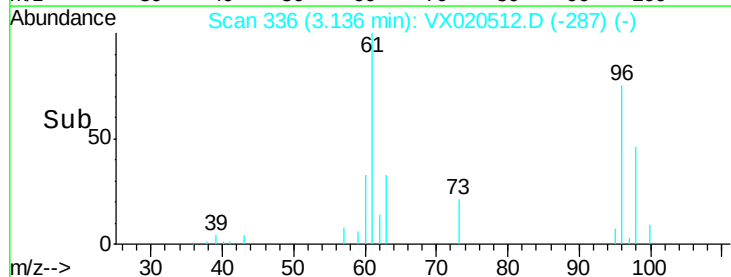
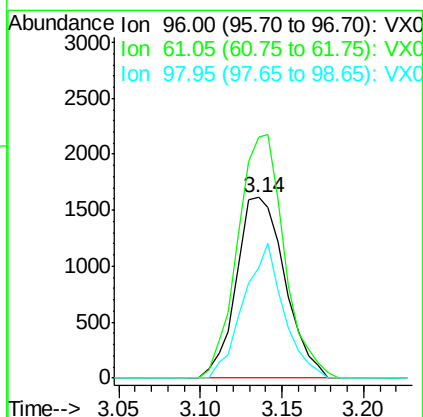
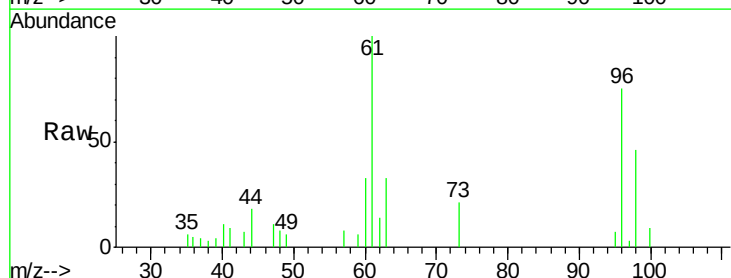
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT1-2021-02

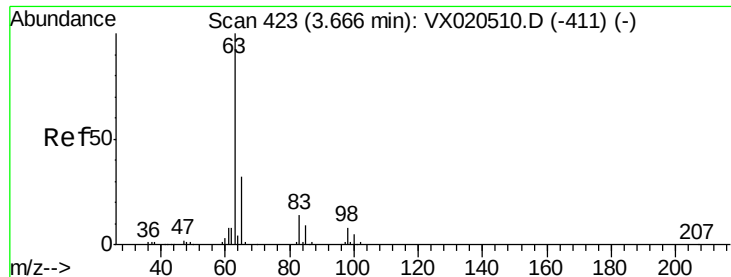
Tot Ion: 73 Resp: 6477
Ion Ratio Lower Upper
73 100
43 20.7 15.1 22.7
57 21.6 17.4 26.2



#18
trans-1,2-Dichloroethene
Concen: 0.220 ug/L
RT: 3.14 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Tgt Ion: 96 Resp: 3340
Ion Ratio Lower Upper
96 100
61 133.2 95.4 177.2
98 61.3 44.2 82.2

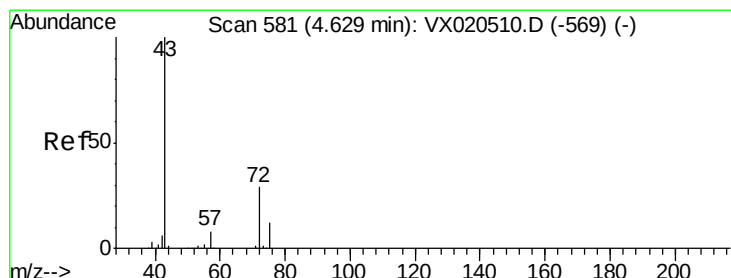
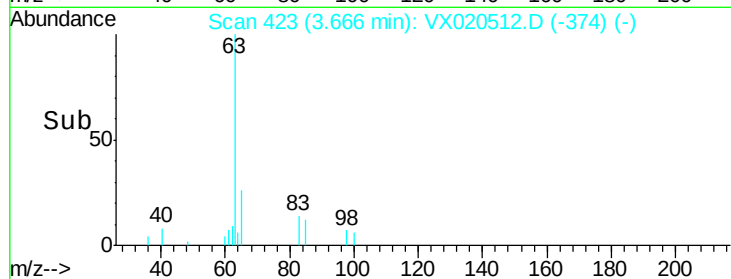
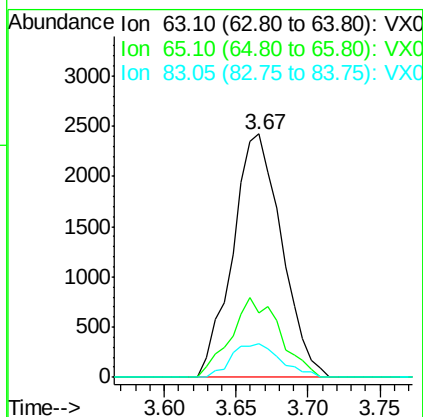
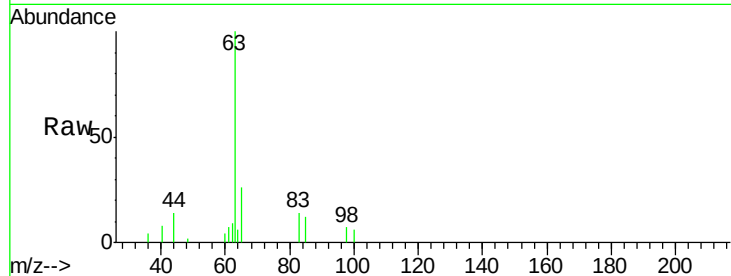




#19
 1,1-Dichloroethane
 Concen: 0.212 ug/L
 RT: 3.67 min Scan# 423
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

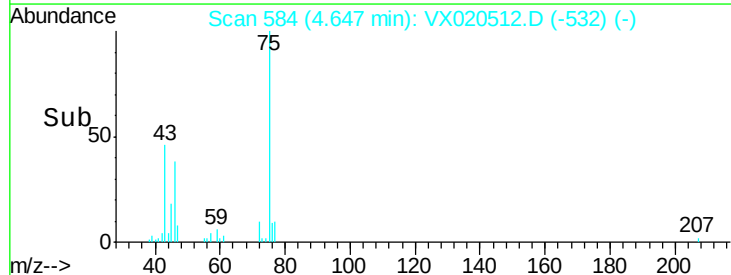
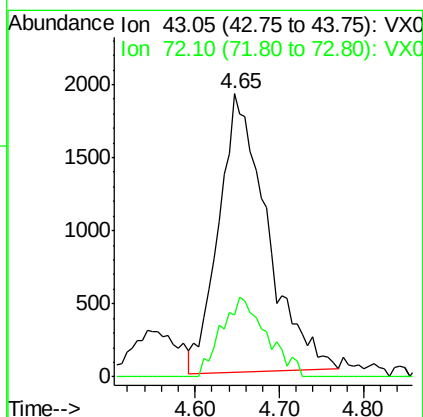
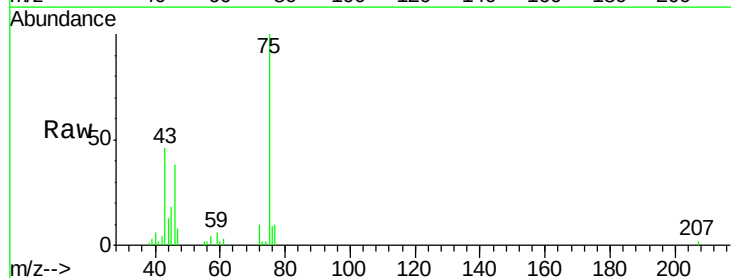
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

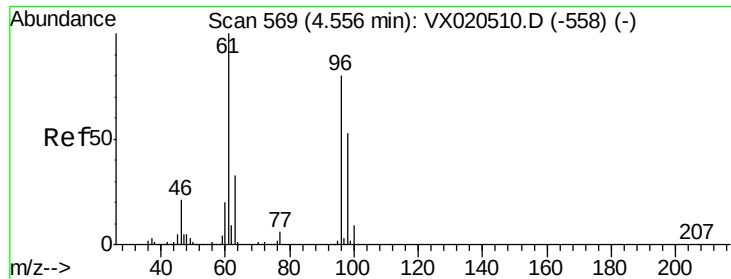
Tot Ion: 63 Resp: 5722
 Ion Ratio Lower Upper
 63 100
 65 26.4 21.8 40.6
 83 14.0 9.6 17.8



#21
 2-Butanone
 Concen: 2.350 ug/L
 RT: 4.65 min Scan# 584
 Delta R.T. 0.02 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Tgt Ion: 43 Resp: 7497
 Ion Ratio Lower Upper
 43 100
 72 26.6 14.8 44.4



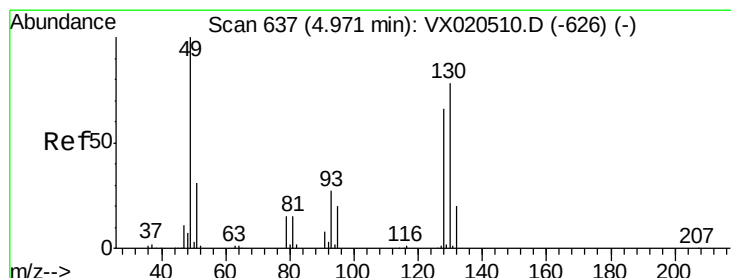
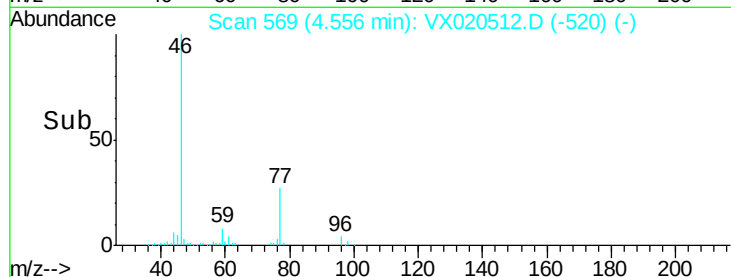
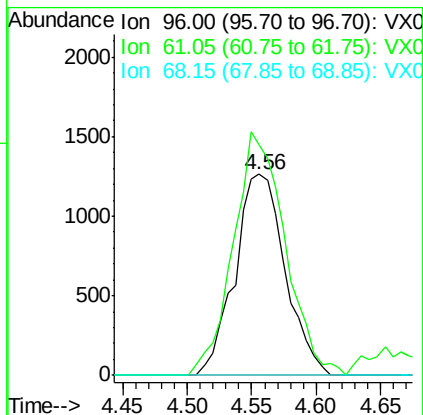
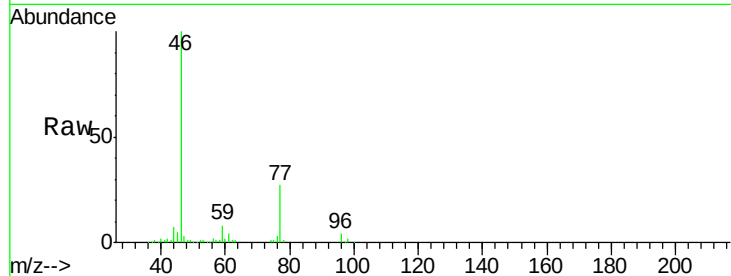


#22

cis-1,2-Dichloroethene
Concen: 0.215 ug/L
RT: 4.56 min Scan# 569
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT1-2021-02

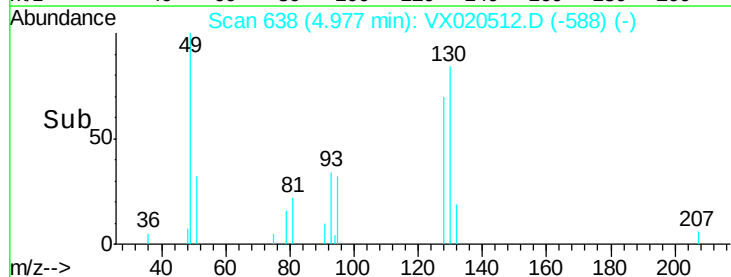
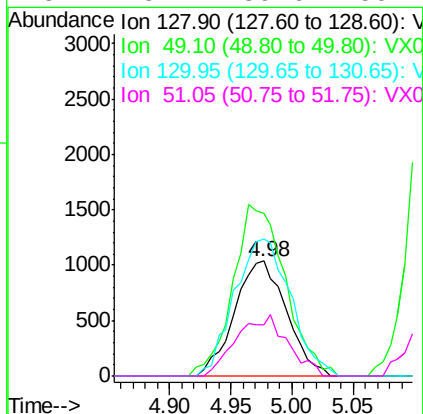
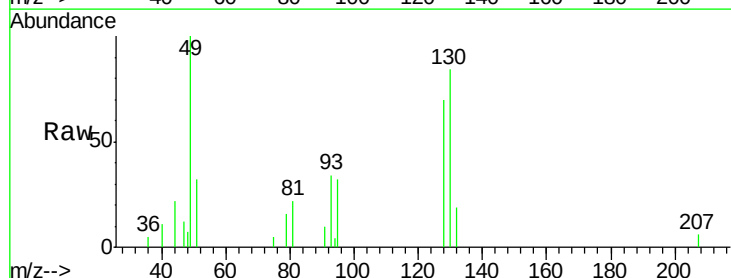
Tot Ion: 96 Resp: 3417
Ion Ratio Lower Upper
96 100
61 114.6 85.9 159.5
68 0.0 0.0 0.0

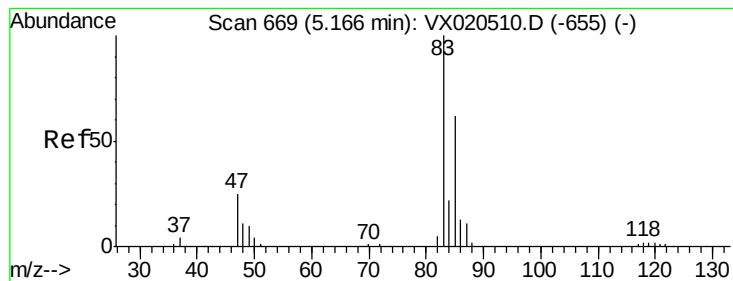


#23

Bromochloromethane
Concen: 0.435 ug/L
RT: 4.98 min Scan# 638
Delta R.T. 0.01 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Tgt Ion: 128 Resp: 3067
Ion Ratio Lower Upper
128 100
49 142.1 103.2 191.6
130 118.8 89.1 165.5
51 45.1 39.6 59.4





#25

Chloroform

Concen: 0.273 ug/L

RT: 5.17 min Scan# 669

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

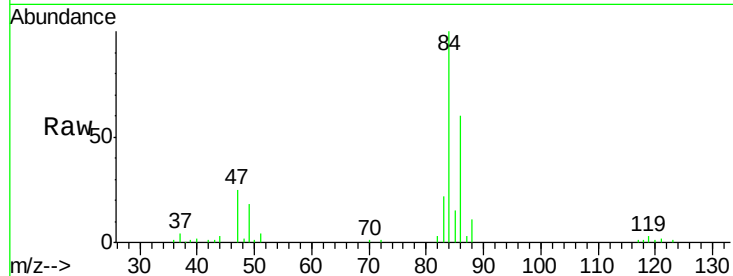
MDL-WATER-QT1-2021-02

Tot Ion: 83 Resp: 7759

Ion Ratio Lower Upper

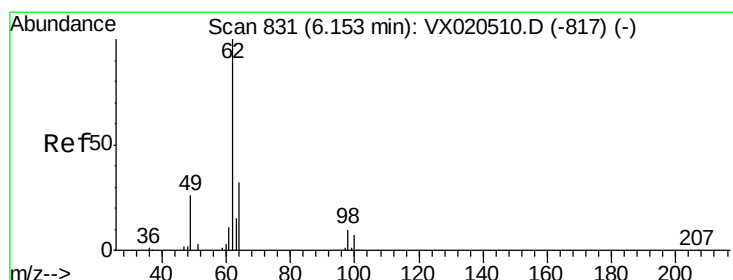
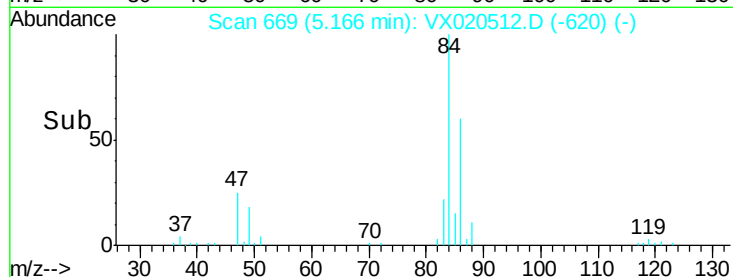
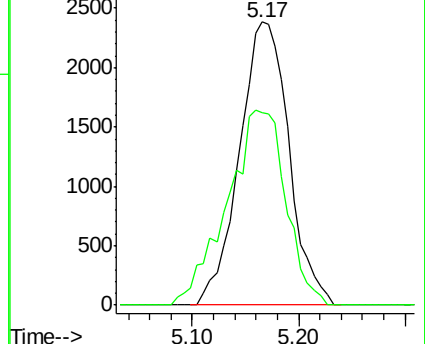
83 100

85 68.1 45.6 84.8



Abundance Ion 83.05 (82.75 to 83.75): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane

Concen: 0.231 ug/L

RT: 6.15 min Scan# 831

Delta R.T. 0.00 min

Lab File: VX020512.D

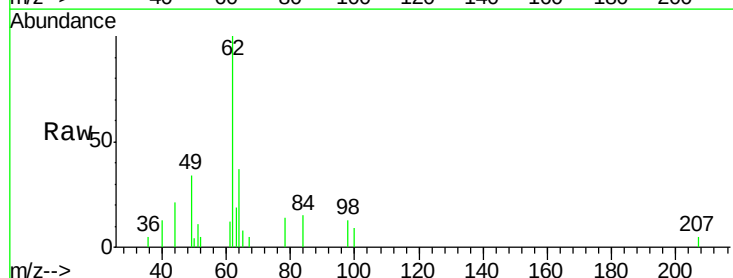
Acq: 06 Jan 2021 10:54

Tgt Ion: 62 Resp: 3775

Ion Ratio Lower Upper

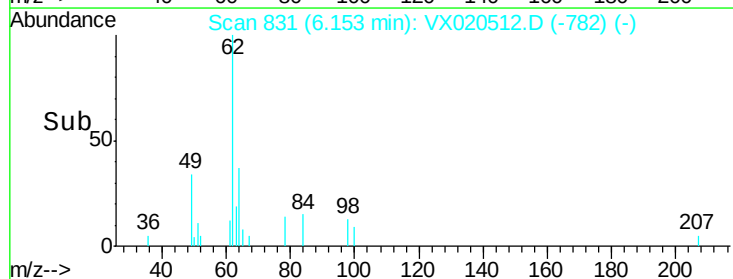
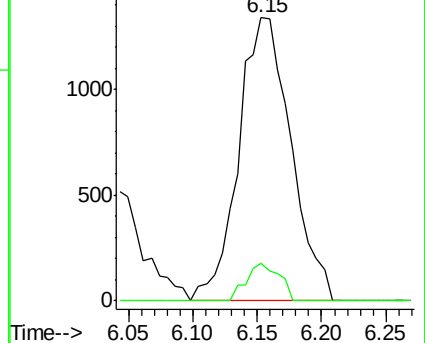
62 100

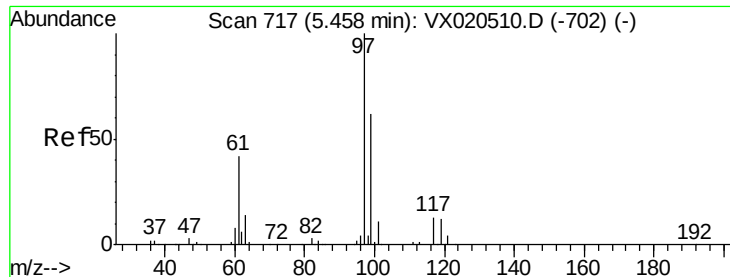
98 13.3 7.9 11.9#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 98.05 (97.75 to 98.75): VX0

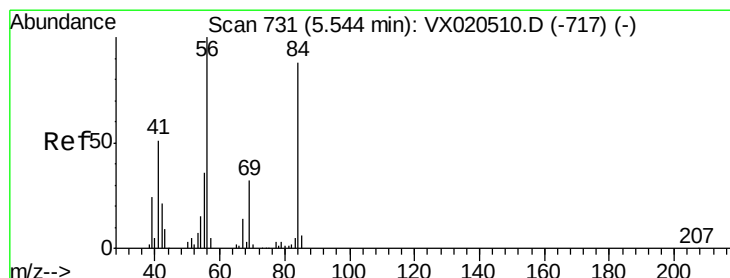
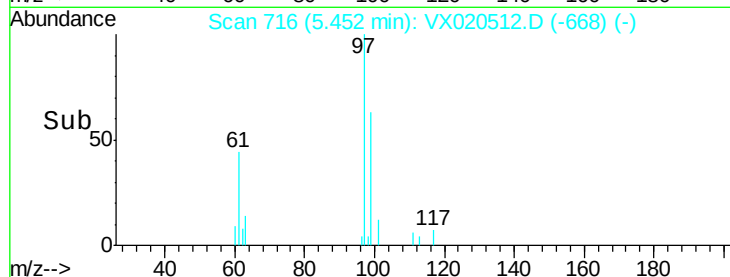
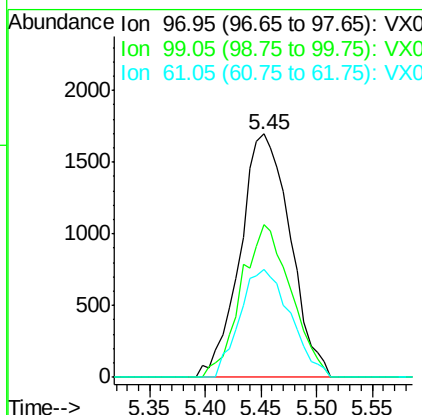
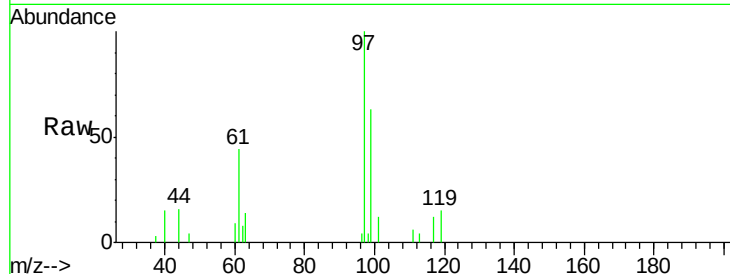




#29
 1,1,1-Trichloroethane
 Concen: 0.211 ug/L
 RT: 5.45 min Scan# 716
 Delta R.T. -0.01 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

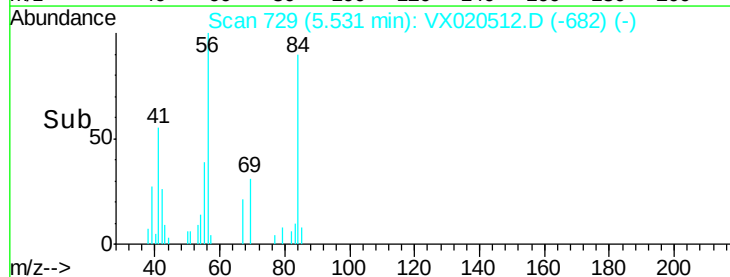
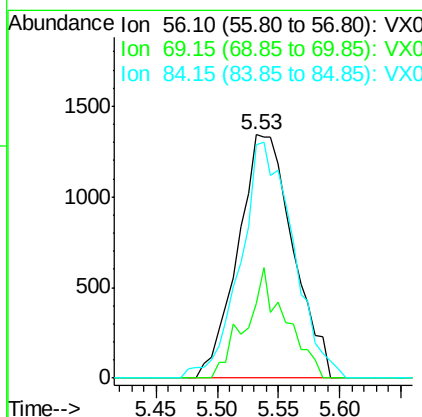
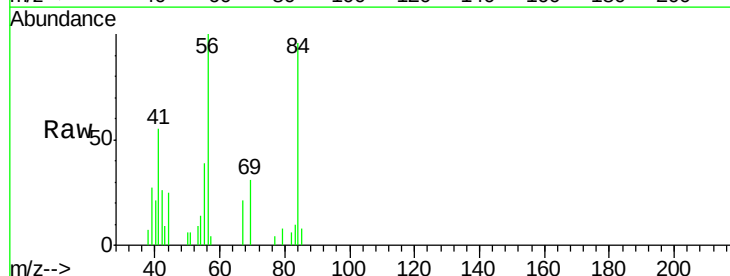
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

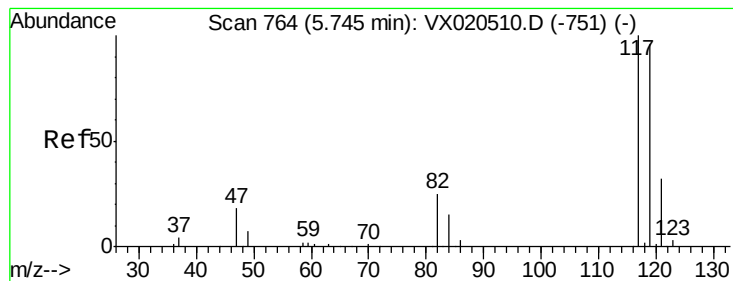
Tot Ion: 97 Resp: 5315
 Ion Ratio Lower Upper
 97 100
 99 62.1 51.2 76.8
 61 44.7 35.3 52.9



#30
 Cyclohexane
 Concen: 0.177 ug/L
 RT: 5.53 min Scan# 729
 Delta R.T. -0.01 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Tgt Ion: 56 Resp: 4202
 Ion Ratio Lower Upper
 56 100
 69 33.1 25.8 38.6
 84 92.9 72.4 108.6





#31

Carbon tetrachloride

Concen: 0.194 ug/L

RT: 5.74 min Scan# 764

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

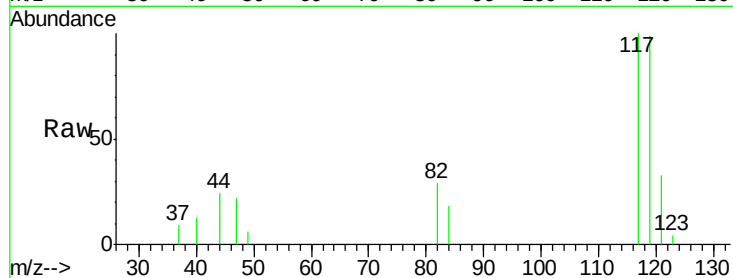
MDL-WATER-QT1-2021-02

Tot Ion:117 Resp: 4198

Ion Ratio Lower Upper

117 100

119 98.8 76.2 114.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.74

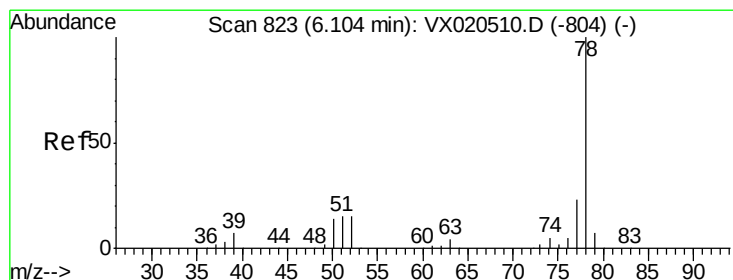
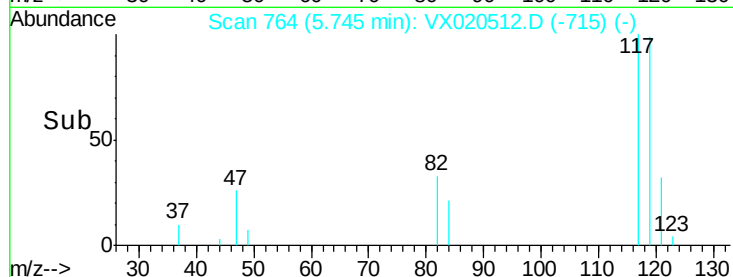
1500

1000

500

0

Time-->



#33

Benzene

Concen: 0.210 ug/L

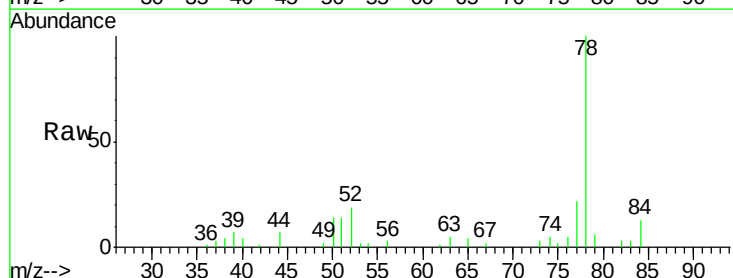
RT: 6.10 min Scan# 823

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Tgt Ion: 78 Resp: 13593



Abundance Ion 78.10 (77.80 to 78.80): VX0

6.10

6000

5000

4000

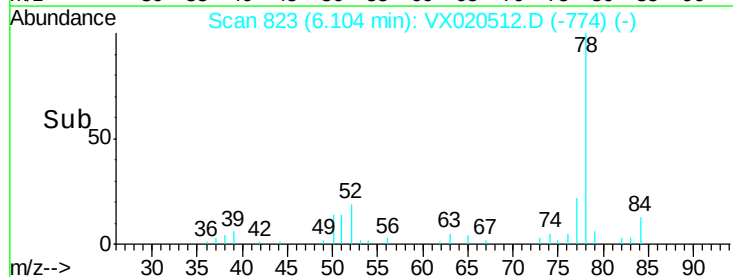
3000

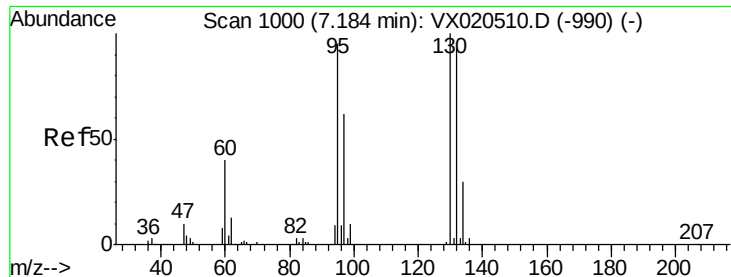
2000

1000

0

Time-->

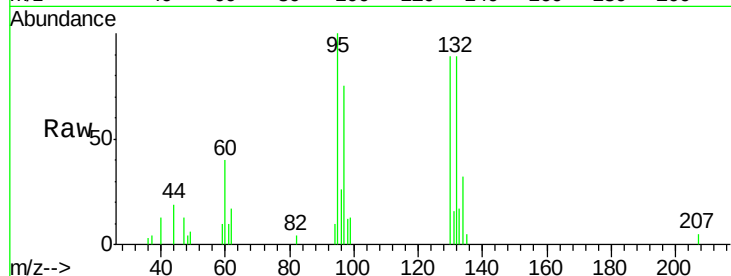




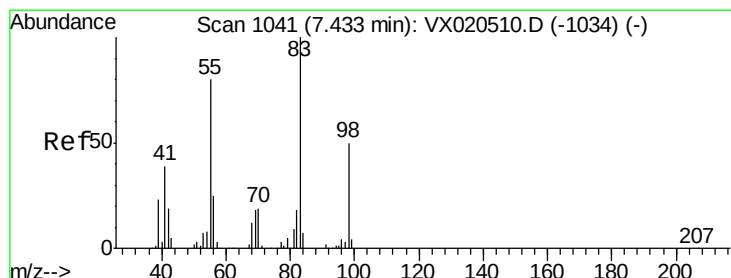
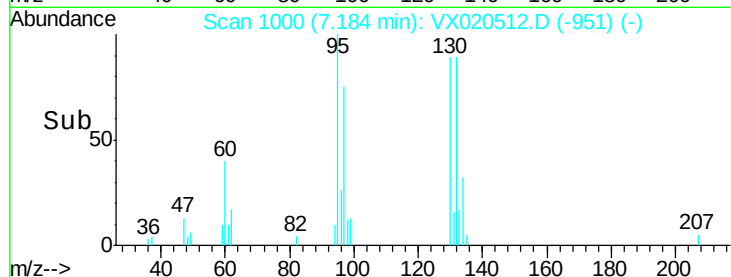
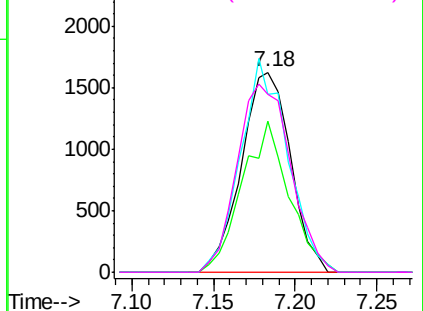
#34
 Trichloroethene
 Concen: 0.203 ug/L
 RT: 7.18 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

Tot Ion: 95 Resp: 3416
 Ion Ratio Lower Upper
 95 100
 97 75.4 46.0 85.4
 132 88.6 69.0 128.1
 130 88.8 69.7 129.4

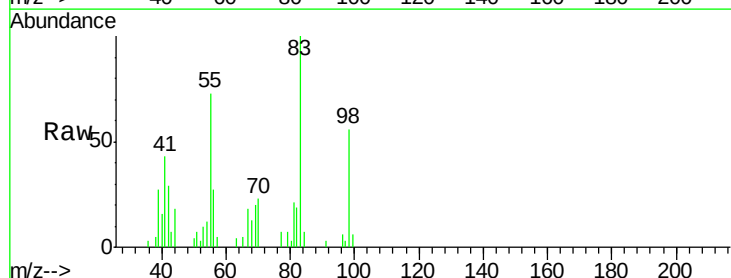


Abundance Ion 95.00 (94.70 to 95.70): VX0
 Ion 96.95 (96.65 to 97.65): VX0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

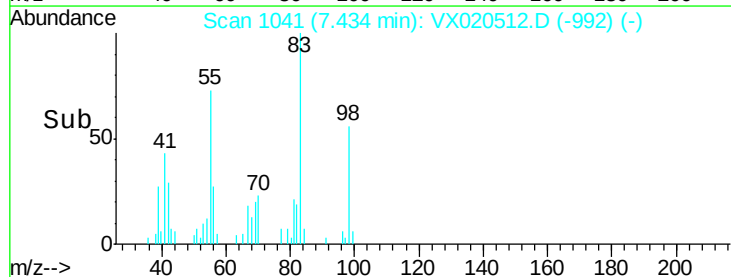
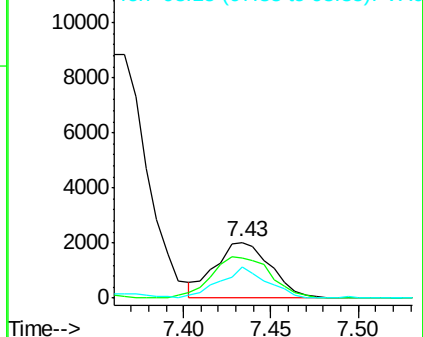


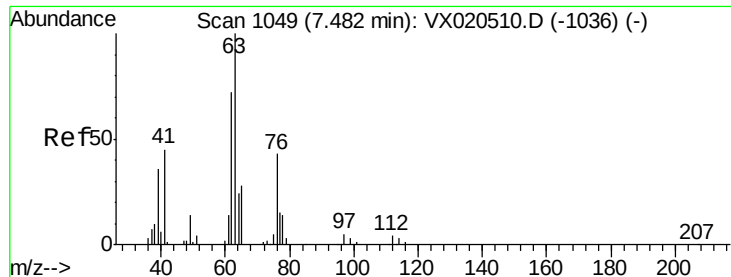
#35
 Methylcyclohexane
 Concen: 0.177 ug/L
 RT: 7.43 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Tgt Ion: 83 Resp: 4479
 Ion Ratio Lower Upper
 83 100
 55 78.4 63.4 95.0
 98 46.6 39.2 58.8



Abundance Ion 83.15 (82.85 to 83.85): VX0
 Ion 55.10 (54.80 to 55.80): VX0
 Ion 98.15 (97.85 to 98.85): VX0

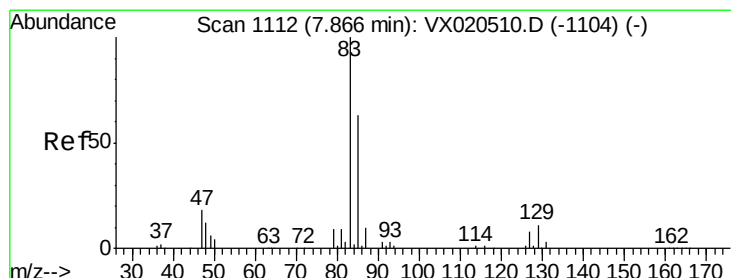
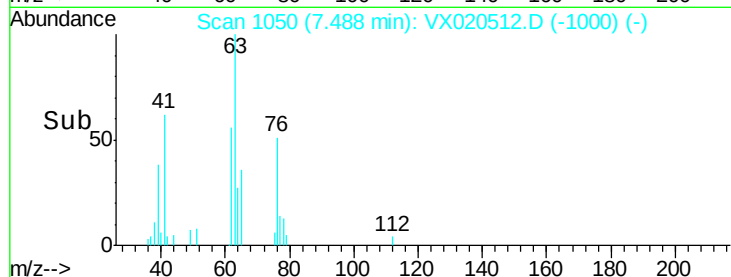
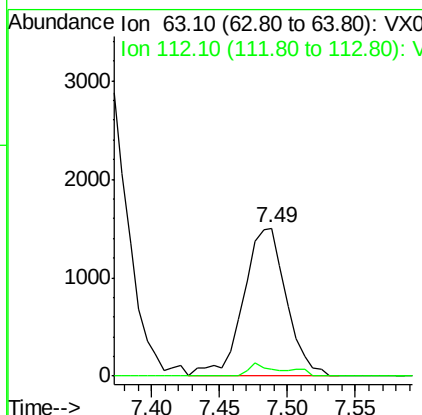
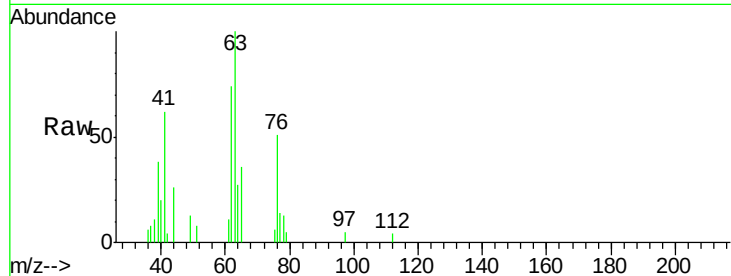




#37
 1,2-Dichloropropane
 Concen: 0.207 ug/L
 RT: 7.49 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

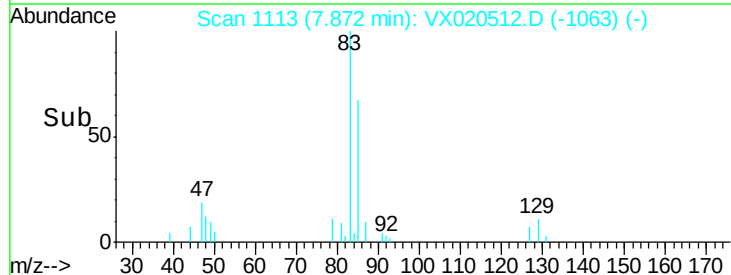
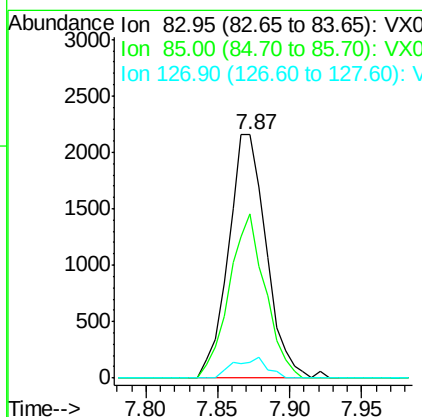
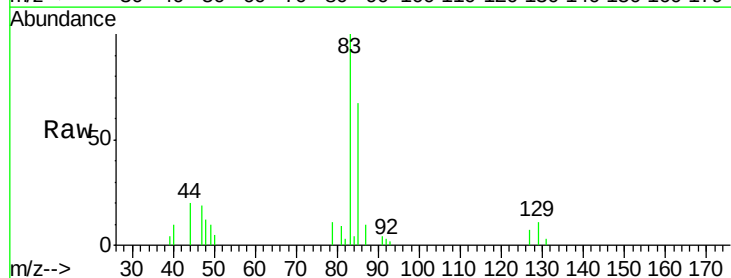
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

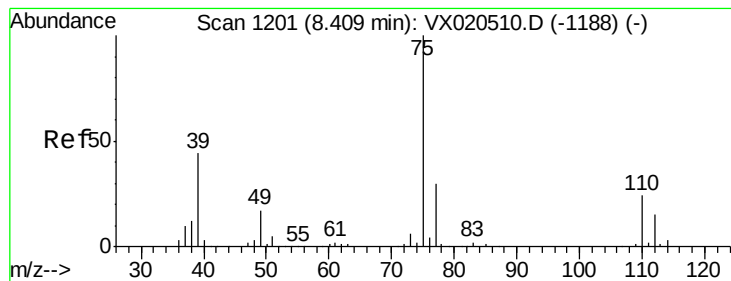
Tot Ion: 63 Resp: 3315
 Ion Ratio Lower Upper
 63 100
 112 5.0 3.9 5.9



#38
 Bromodichloromethane
 Concen: 0.203 ug/L
 RT: 7.87 min Scan# 1113
 Delta R.T. 0.01 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Tgt Ion: 83 Resp: 3965
 Ion Ratio Lower Upper
 83 100
 85 67.2 44.6 82.8
 127 6.7 7.0 10.4#



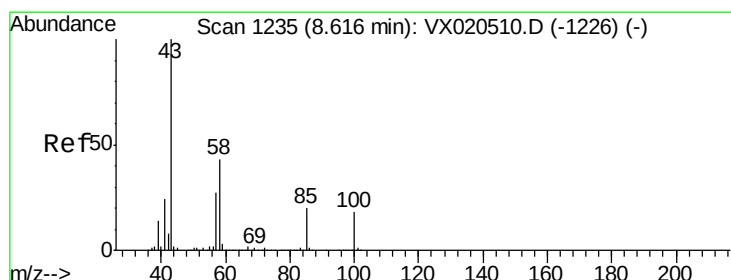
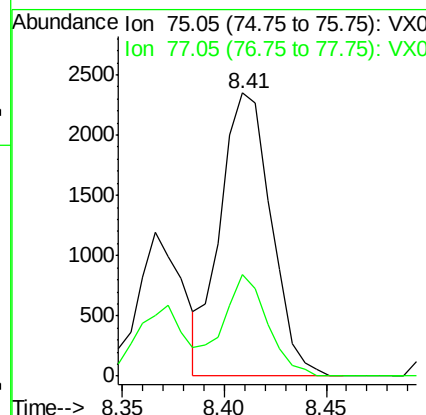
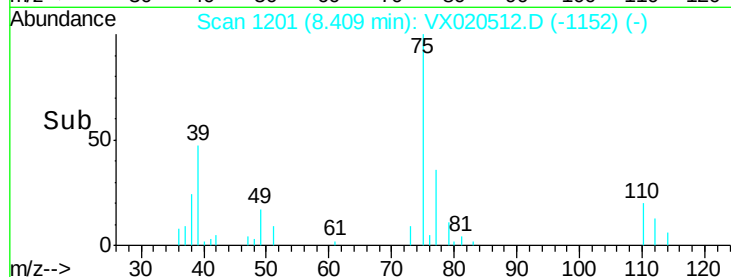
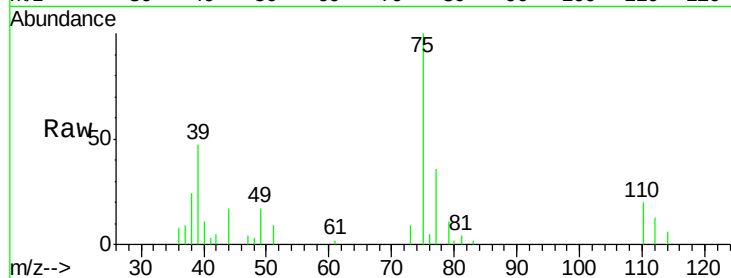


#39

cis-1,3-Dichloropropene
Concen: 0.187 ug/L
RT: 8.41 min Scan# 1201
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT1-2021-02

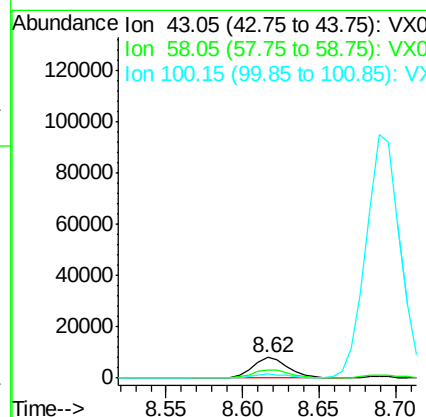
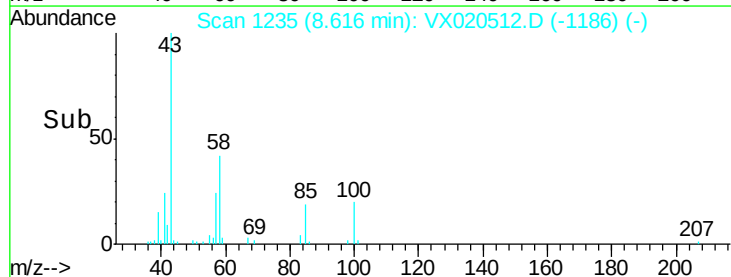
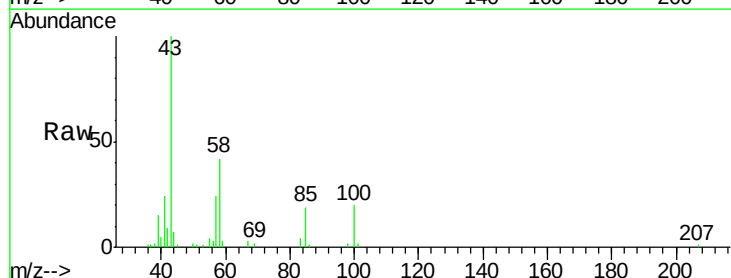
Tot Ion: 75 Resp: 4055
Ion Ratio Lower Upper
75 100
77 36.0 21.6 40.0

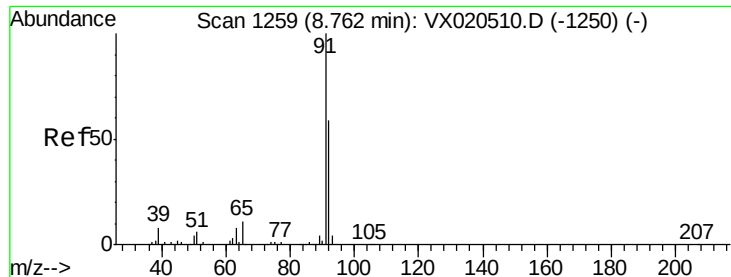


#40

4-Methyl-2-pentanone
Concen: 1.666 ug/L
RT: 8.62 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Tgt Ion: 43 Resp: 13049
Ion Ratio Lower Upper
43 100
58 42.9 35.0 52.4
100 0.0 14.3 21.5#





#42

Toluene

Concen: 0.200 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

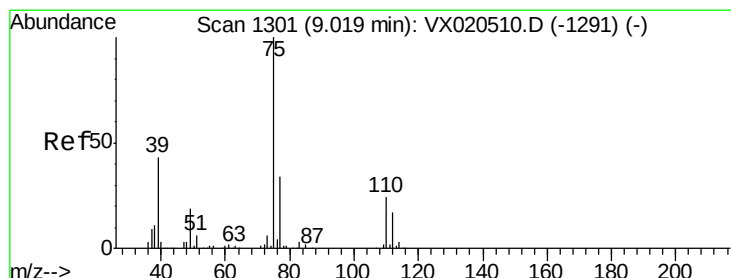
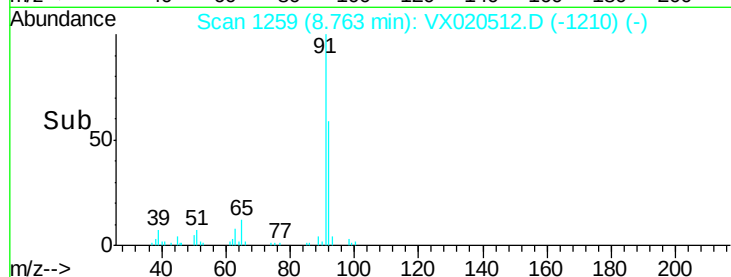
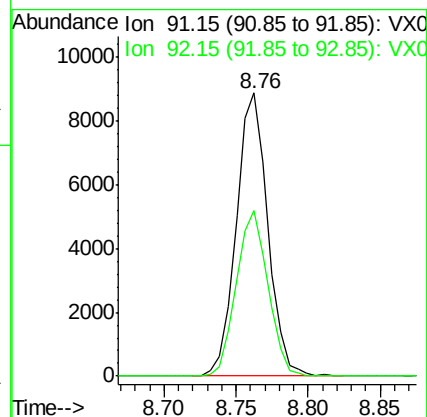
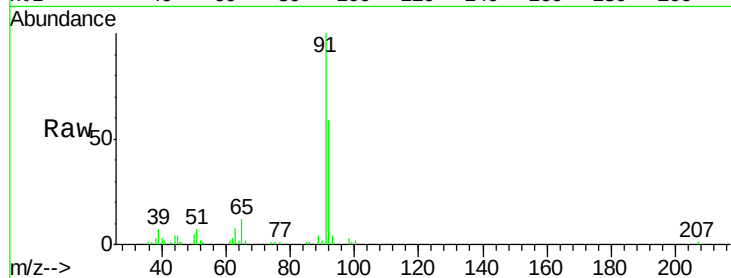
MDL-WATER-QT1-2021-02

Tot Ion: 91 Resp: 13511

Ion Ratio Lower Upper

91 100

92 58.6 42.1 78.1



#44

trans-1,3-Dichloropropene

Concen: 0.251 ug/L

RT: 9.02 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VX020512.D

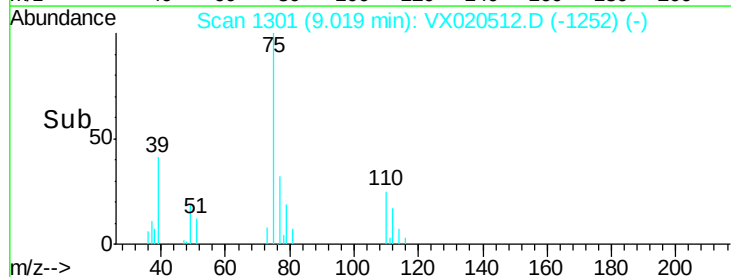
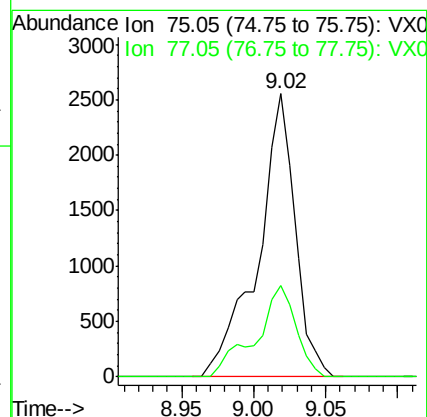
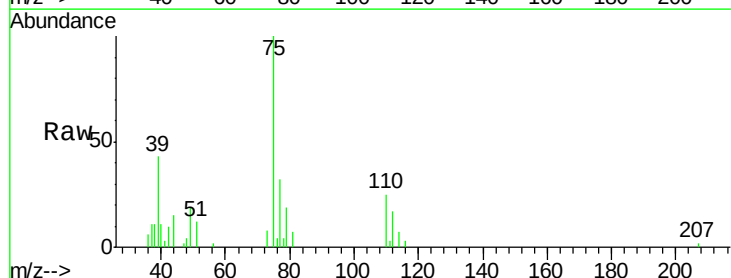
Acq: 06 Jan 2021 10:54

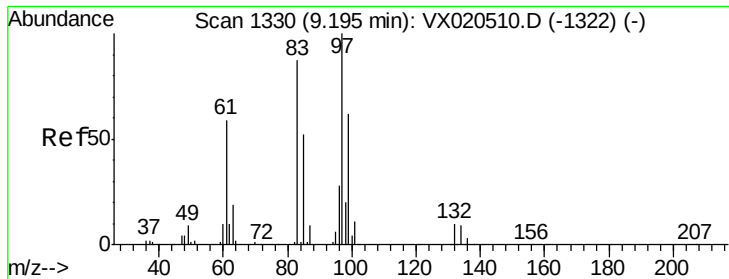
Tgt Ion: 75 Resp: 4577

Ion Ratio Lower Upper

75 100

77 32.2 21.7 40.3





#45

1,1,2-Trichloroethane

Concen: 0.209 ug/L

RT: 9.20 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT1-2021-02

Tot Ion: 97 Resp: 2361

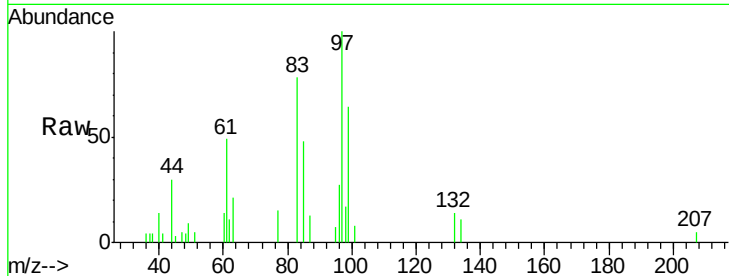
Ion Ratio Lower Upper

97 100

99 64.3 43.4 80.6

83 78.3 58.6 108.8

85 48.4 38.5 71.5



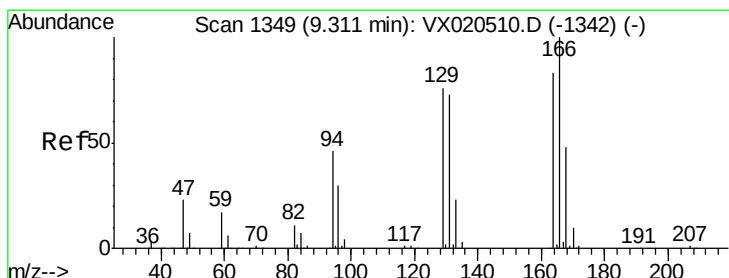
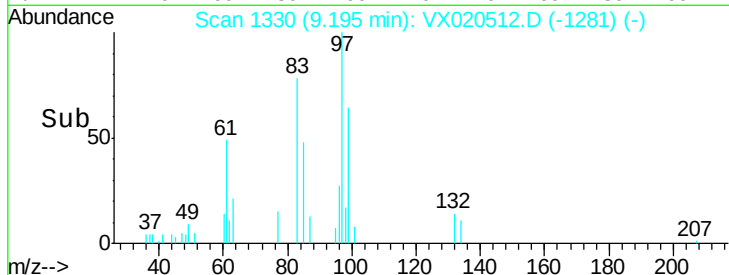
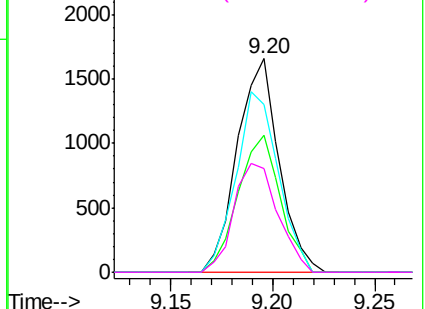
Abundance

Ion 96.95 (96.65 to 97.65): VX0

Ion 99.05 (98.75 to 99.75): VX0

Ion 82.95 (82.65 to 83.65): VX0

Ion 85.00 (84.70 to 85.70): VX0



#47

Tetrachloroethene

Concen: 0.212 ug/L

RT: 9.32 min Scan# 1350

Delta R.T. 0.01 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Tgt Ion: 164 Resp: 2886

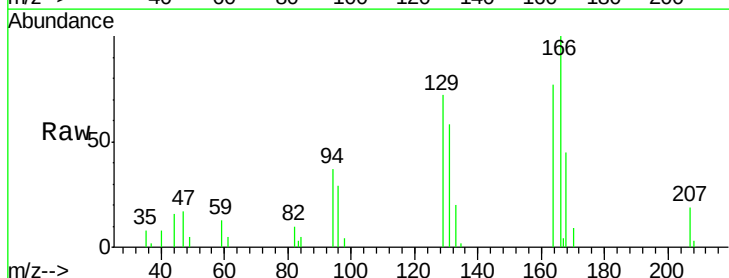
Ion Ratio Lower Upper

164 100

129 93.1 64.5 119.7

131 75.7 63.8 118.6

166 129.9 85.8 159.4



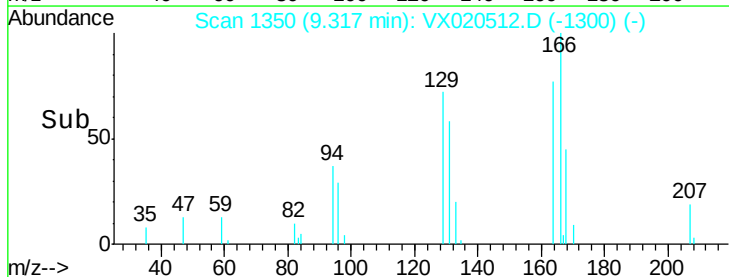
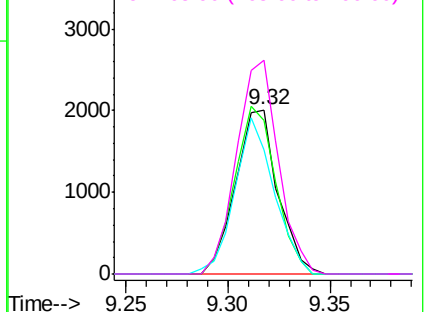
Abundance

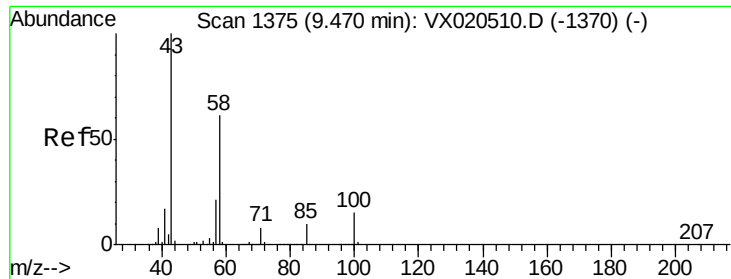
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

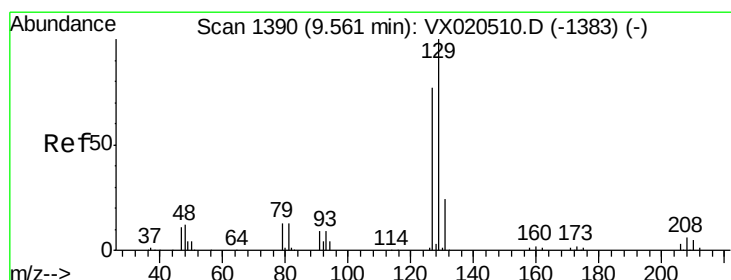
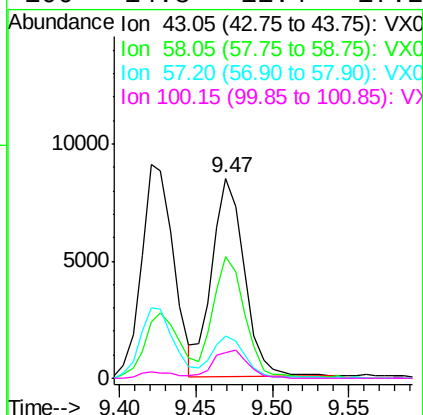
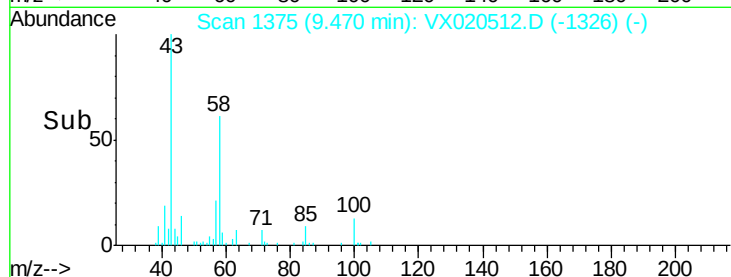
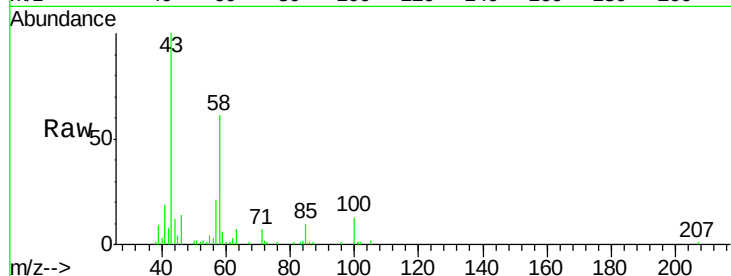




#48
2-Hexanone
Concen: 2.336 ug/L
RT: 9.47 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

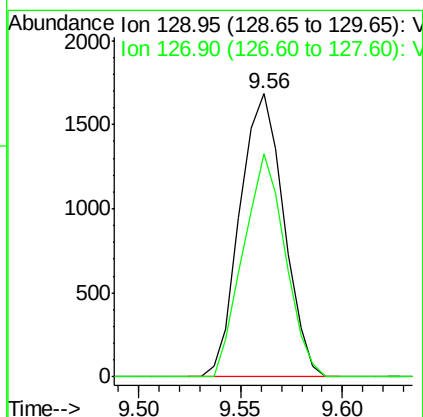
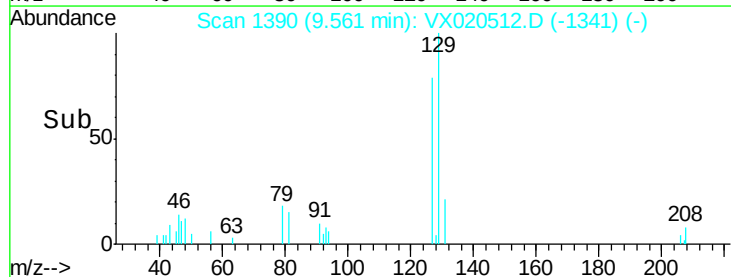
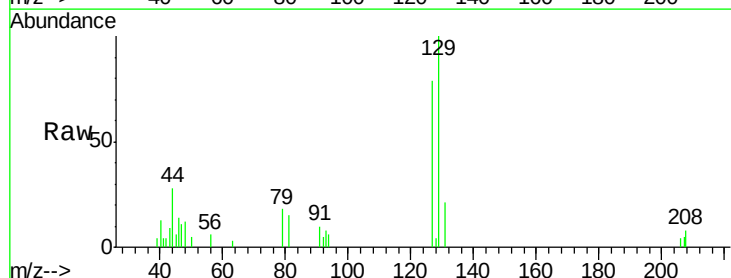
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT1-2021-02

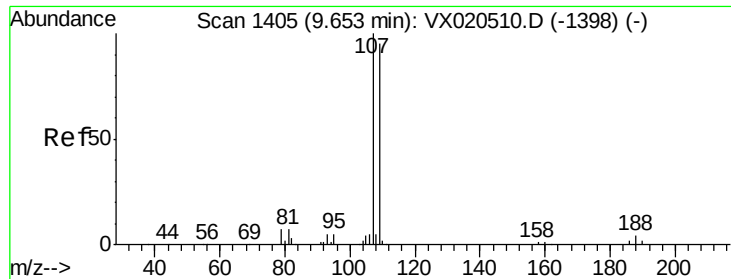
Tot Ion:	43	Resp:	12619
Ion	Ratio	Lower	Upper
43	100		
58	57.8	48.8	73.2
57	20.3	16.6	25.0
100	14.8	11.4	17.2



#49
Dibromochloromethane
Concen: 0.206 ug/L
RT: 9.56 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Tgt Ion:	129	Resp:	2528
Ion	Ratio	Lower	Upper
129	100		
127	79.0	53.0	98.4

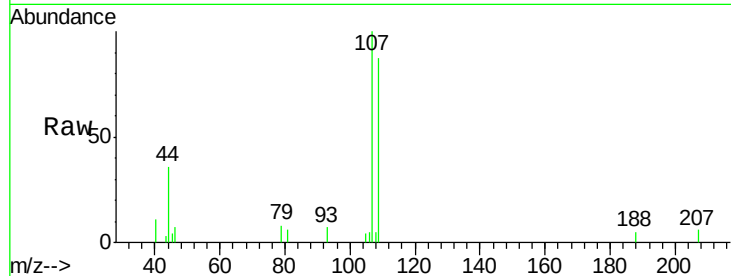




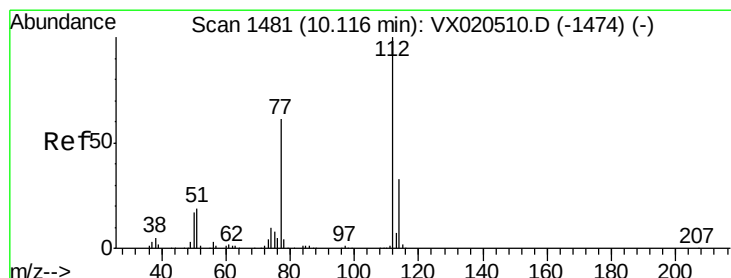
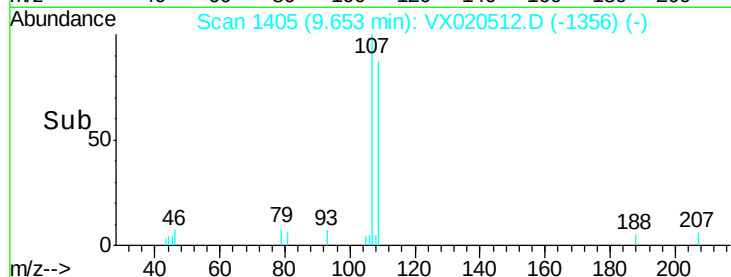
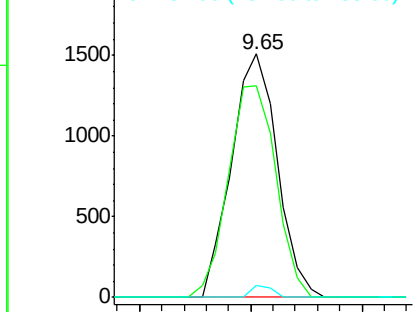
#50
1,2-Dibromoethane
Concen: 0.214 ug/L
RT: 9.65 min Scan# 1405
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT1-2021-02

Tot Ion	Ratio	Lower	Upper
107	100		
109	87.1	65.0	120.8
188	5.0	3.4	5.0

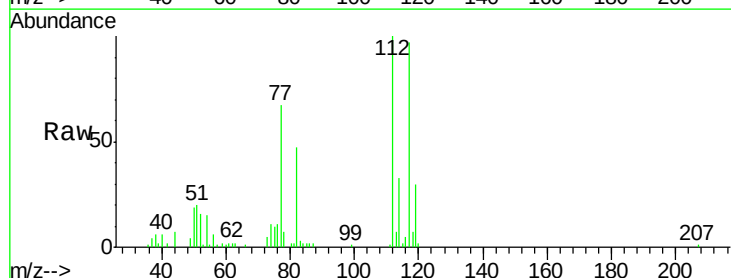


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

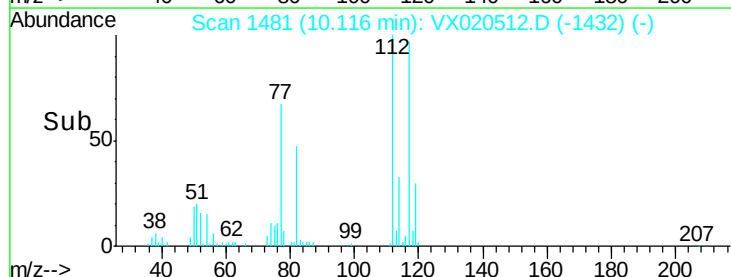
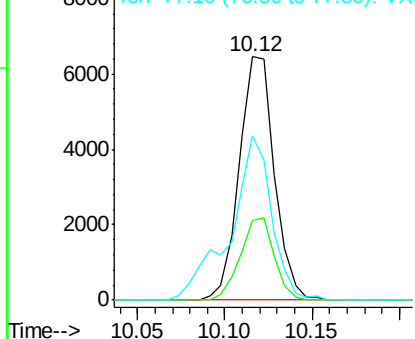


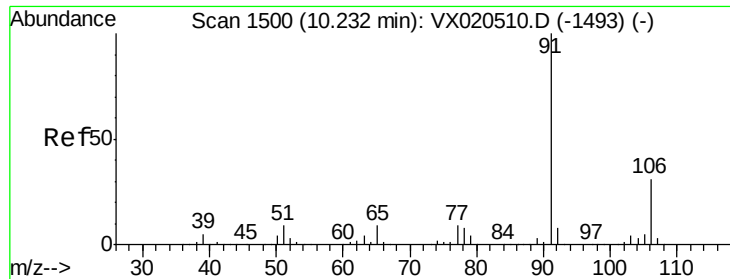
#51
Chlorobenzene
Concen: 0.213 ug/L
RT: 10.12 min Scan# 1481
Delta R.T. 0.00 min
Lab File: VX020512.D
Acq: 06 Jan 2021 10:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.1	41.1
77	67.4	47.0	70.6



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.199 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

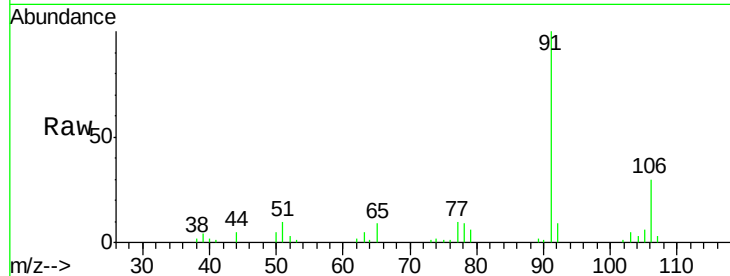
MDL-WATER-QT1-2021-02

Tot Ion: 91 Resp: 13937

Ion Ratio Lower Upper

91 100

106 29.7 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V

10.23

12000

10000

8000

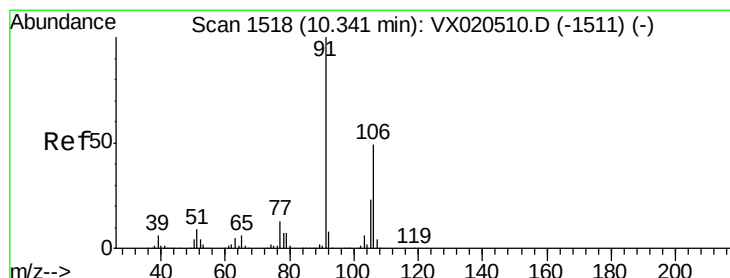
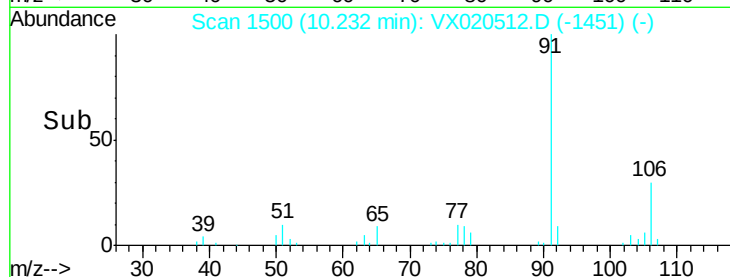
6000

4000

2000

0

Time-->



#53

m,p-xylene

Concen: 0.190 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX020512.D

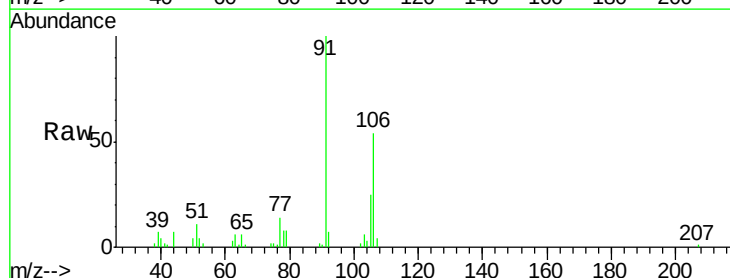
Acq: 06 Jan 2021 10:54

Tgt Ion: 106 Resp: 5080

Ion Ratio Lower Upper

106 100

91 186.6 137.4 255.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

10.34

8000

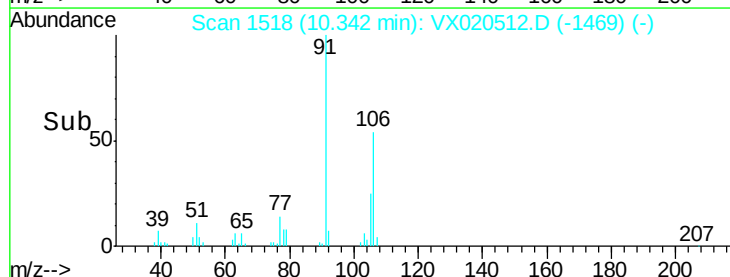
6000

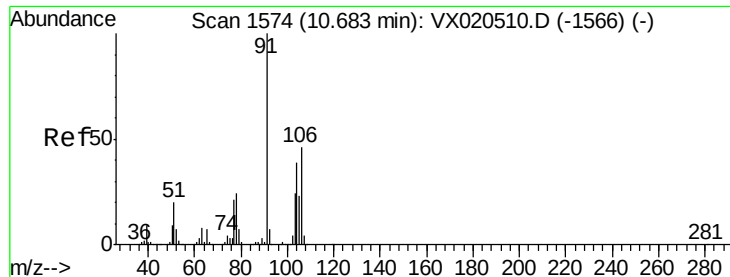
4000

2000

0

Time-->





#54

o-xylene

Concen: 0.173 ug/L

RT: 10.68 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

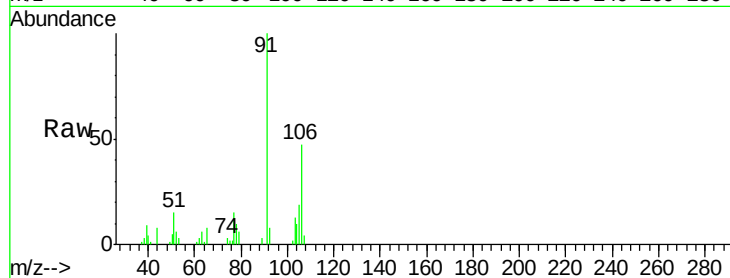
MDL-WATER-QT1-2021-02

Tot Ion:106 Resp: 4399

Ion Ratio Lower Upper

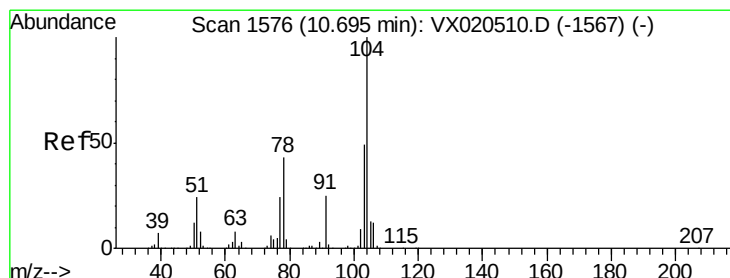
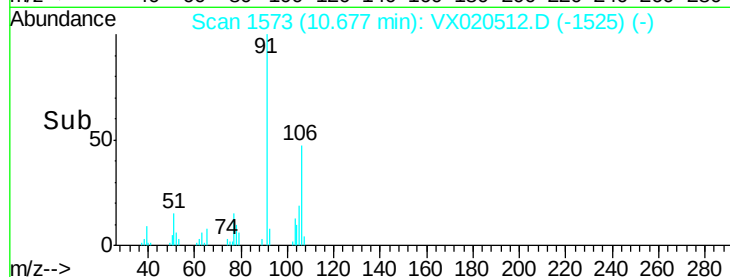
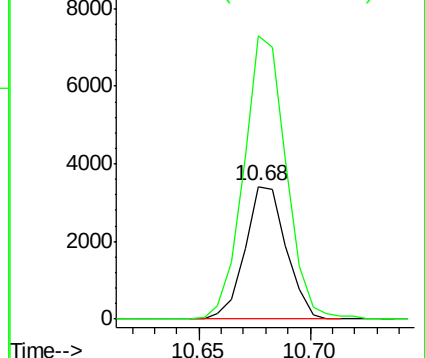
106 100

91 213.1 151.1 280.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#55

Styrene

Concen: 0.167 ug/L

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX020512.D

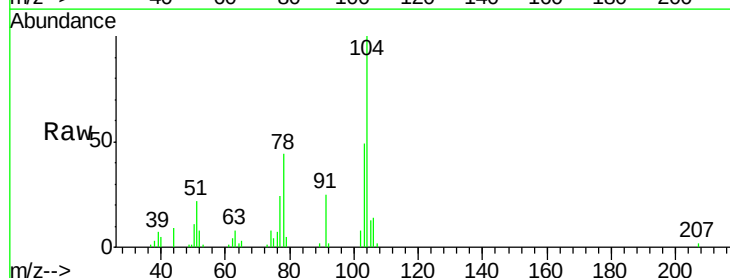
Acq: 06 Jan 2021 10:54

Tgt Ion:104 Resp: 7152

Ion Ratio Lower Upper

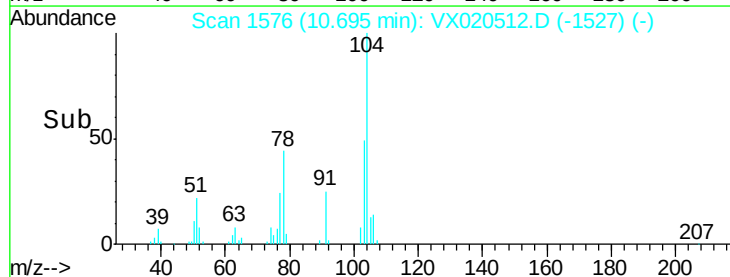
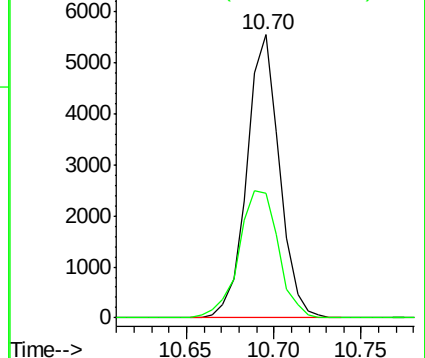
104 100

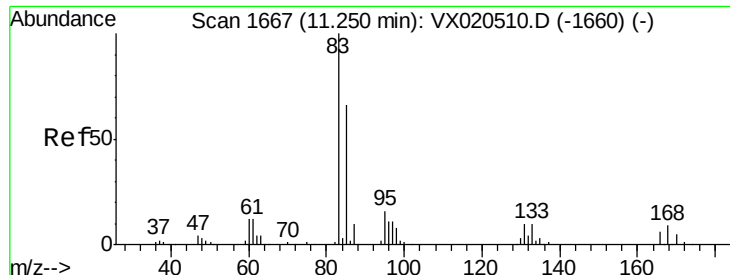
78 44.2 30.3 56.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VX0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.233 ug/L

RT: 11.25 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT1-2021-02

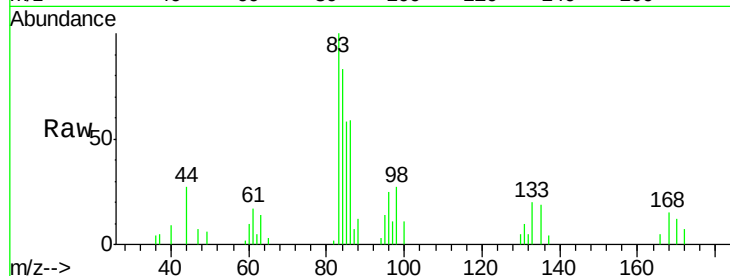
Tot Ion: 83 Resp: 2933

Ion Ratio Lower Upper

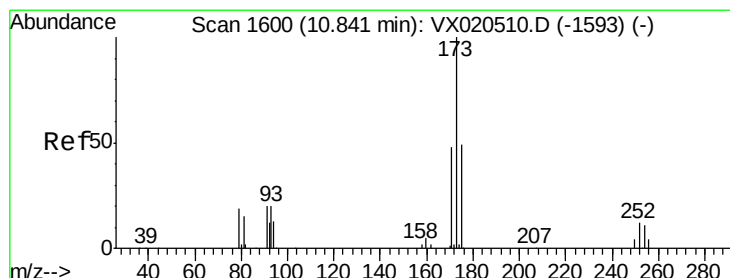
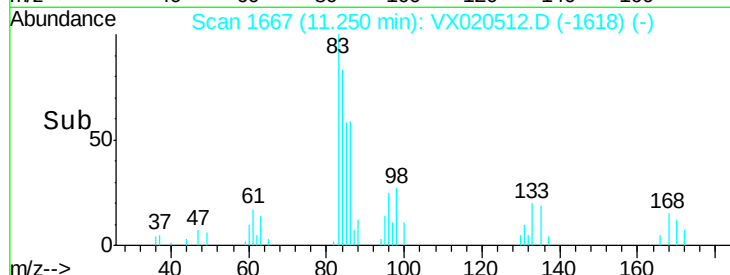
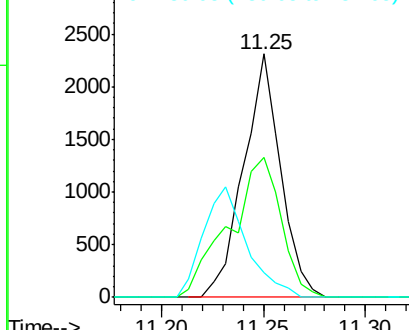
83 100

85 57.7 44.6 82.8

131 10.4 8.2 12.2



Abundance Ion 82.95 (82.65 to 83.65): VX0
Ion 85.00 (84.70 to 85.70): VX0
Ion 130.95 (130.65 to 131.65): V



#59

Bromoform

Concen: 0.246 ug/L

RT: 10.84 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

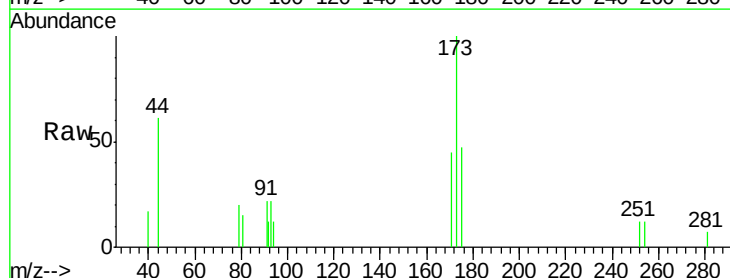
Tgt Ion: 173 Resp: 1371

Ion Ratio Lower Upper

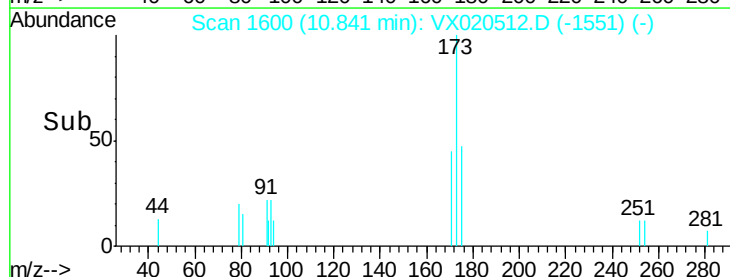
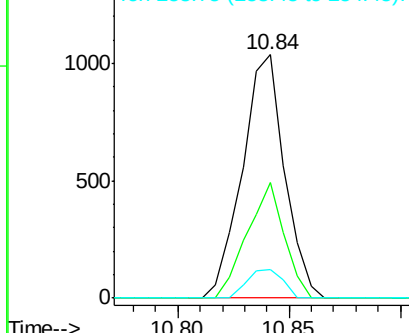
173 100

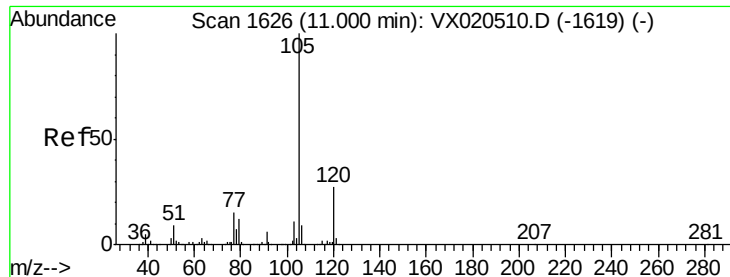
175 41.5 38.0 57.0

254 9.9 8.8 13.2



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V





#60

Isopropylbenzene

Concen: 0.200 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT1-2021-02

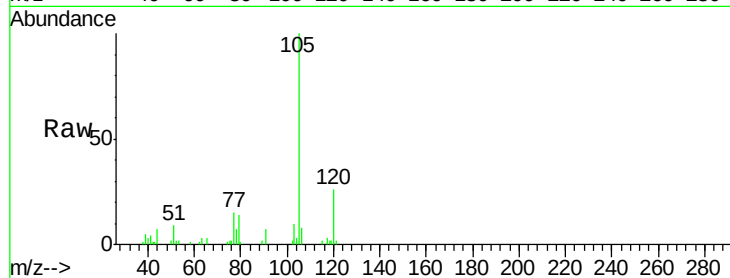
Tot Ion:105 Resp: 11212

Ion Ratio Lower Upper

105 100

120 27.2 21.1 31.7

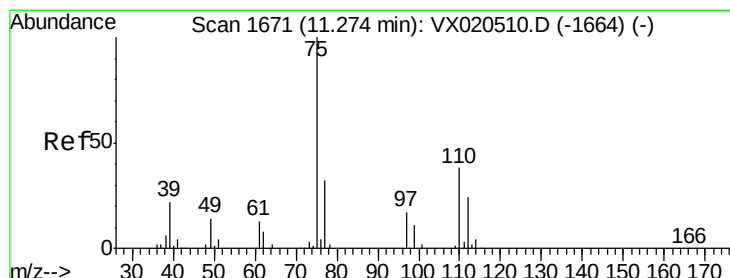
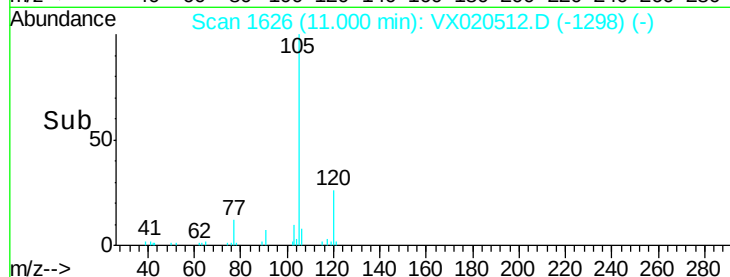
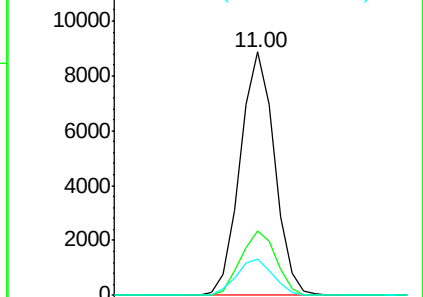
77 15.8 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 0.248 ug/L

RT: 11.27 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

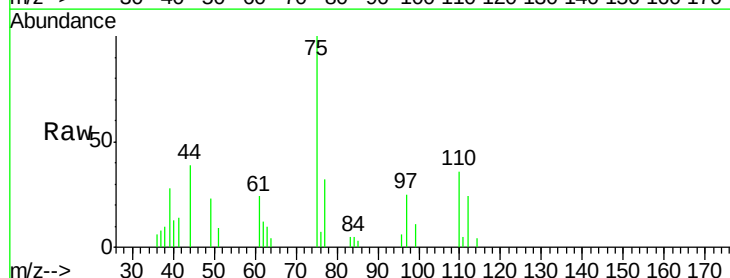
Tgt Ion: 75 Resp: 1933

Ion Ratio Lower Upper

75 100

77 33.9 26.3 39.5

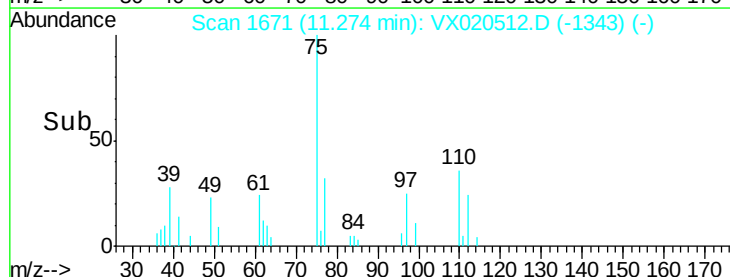
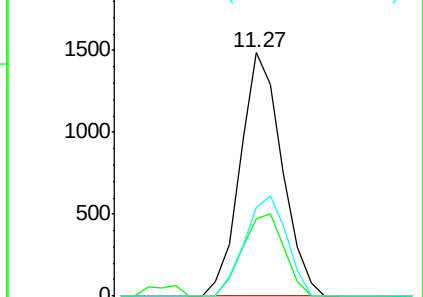
110 41.3 32.1 48.1

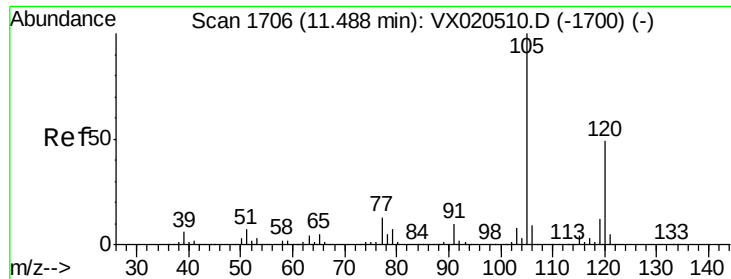


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 0.186 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

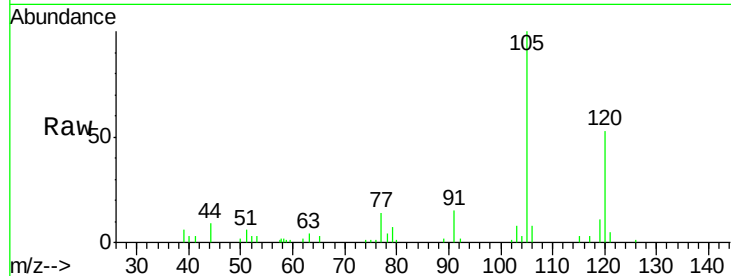
MDL-WATER-QT1-2021-02

Tot Ion:105 Resp: 8393

Ion Ratio Lower Upper

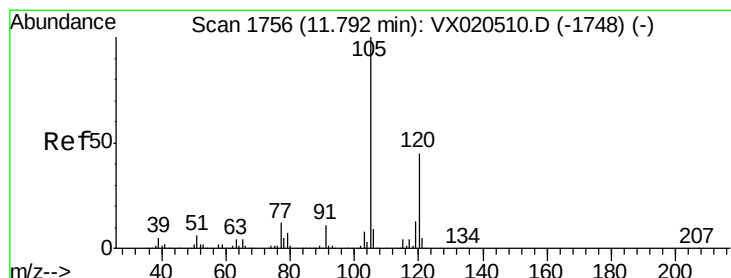
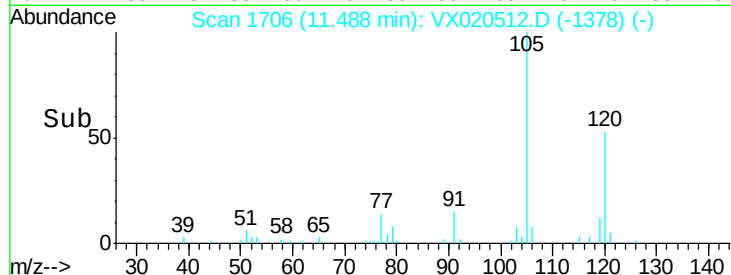
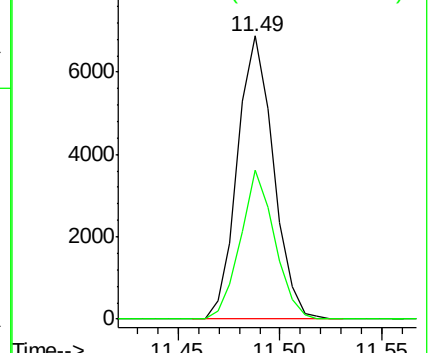
105 100

120 50.2 38.8 58.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 0.184 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.01 min

Lab File: VX020512.D

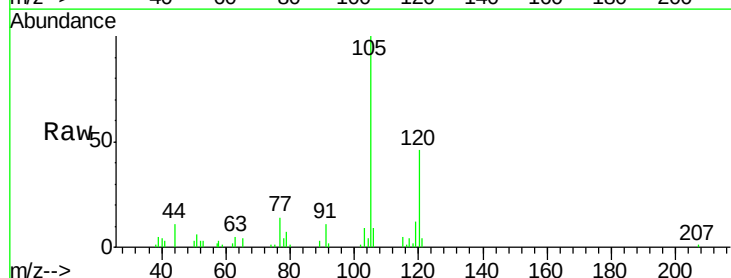
Acq: 06 Jan 2021 10:54

Tgt Ion:105 Resp: 8273

Ion Ratio Lower Upper

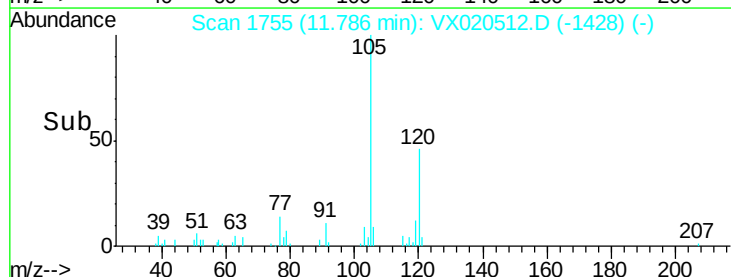
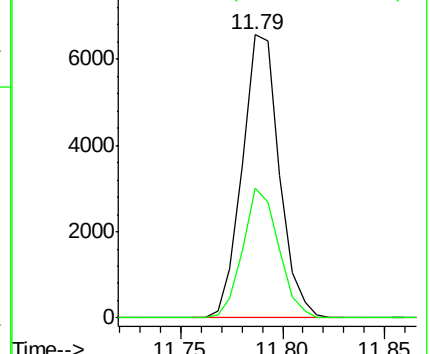
105 100

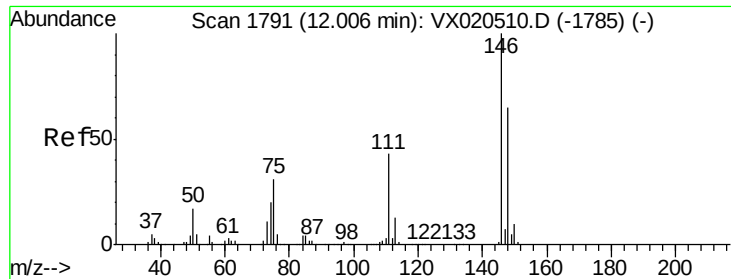
120 44.3 36.5 54.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

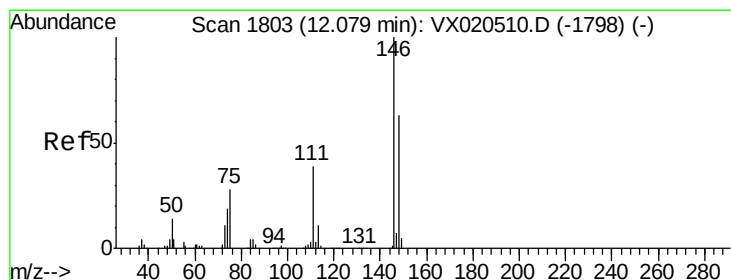
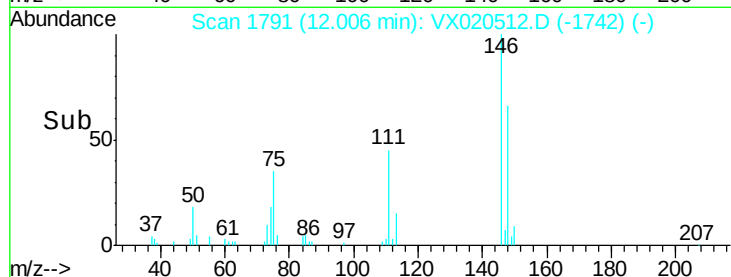
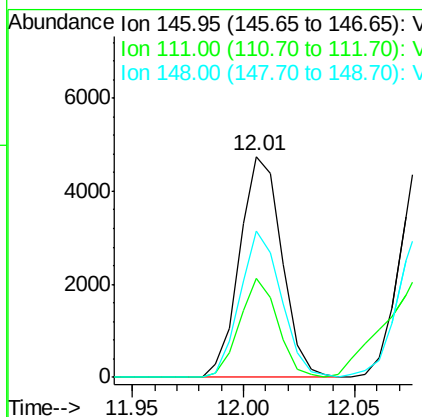
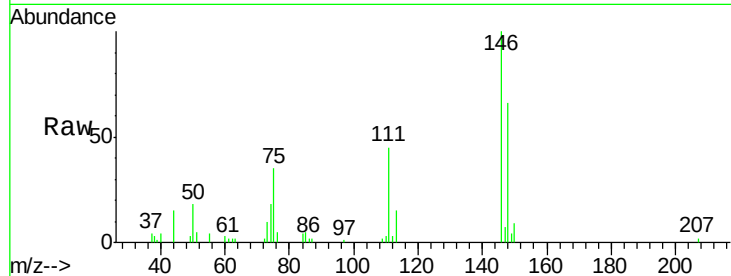




#64
 1,3-Dichlorobenzene
 Concen: 0.232 ug/L
 RT: 12.01 min Scan# 1791
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

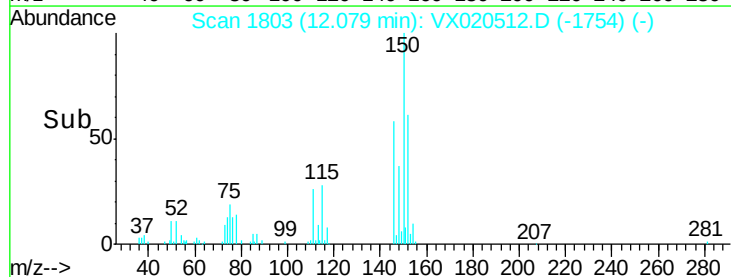
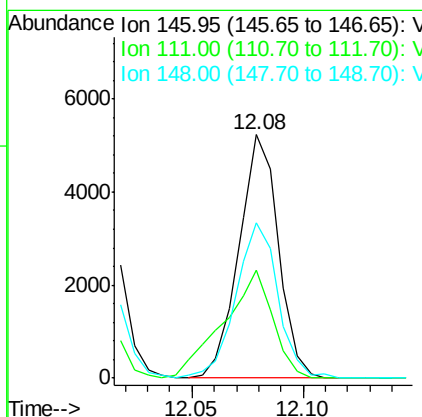
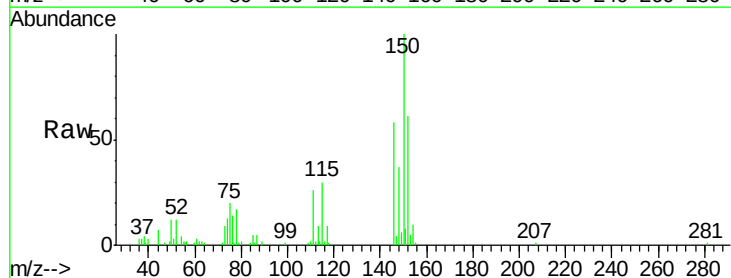
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

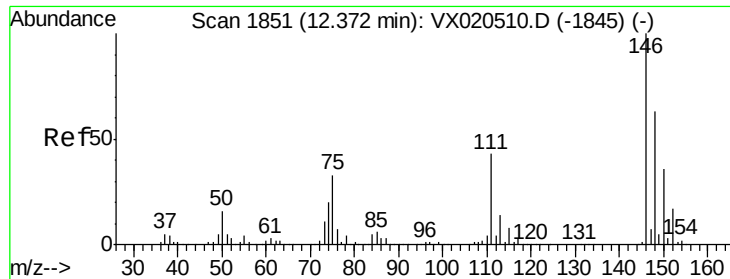
Tot Ion:146 Resp: 6266
 Ion Ratio Lower Upper
 146 100
 111 45.0 28.2 52.4
 148 66.1 41.7 77.5



#65
 1,4-Dichlorobenzene
 Concen: 0.236 ug/L
 RT: 12.08 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Tgt Ion:146 Resp: 6453
 Ion Ratio Lower Upper
 146 100
 111 44.4 26.2 48.8
 148 63.5 44.1 81.9

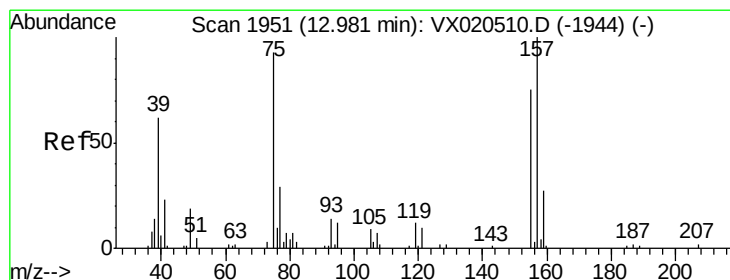
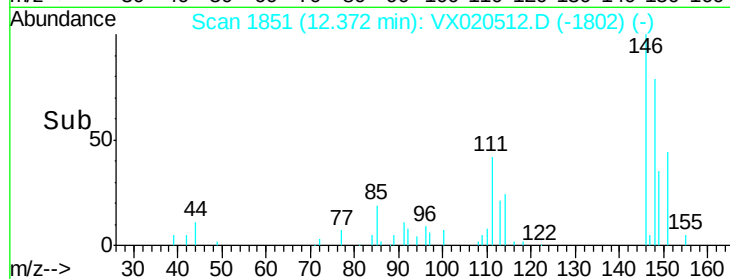
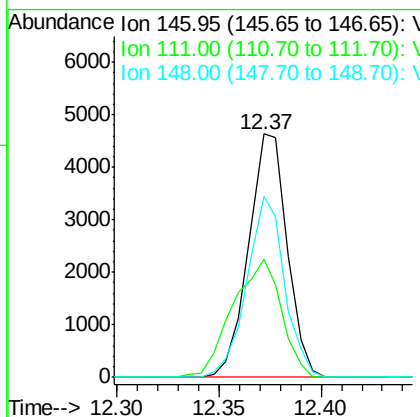
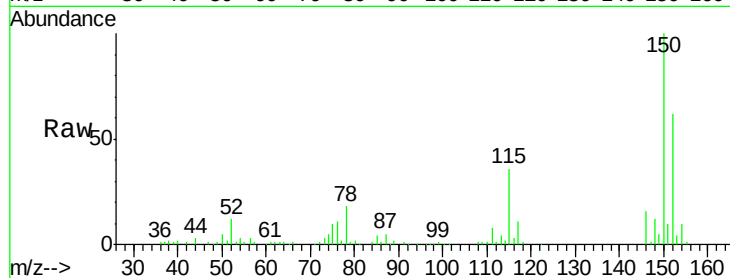




#67
 1,2-Dichlorobenzene
 Concen: 0.243 ug/L
 RT: 12.37 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

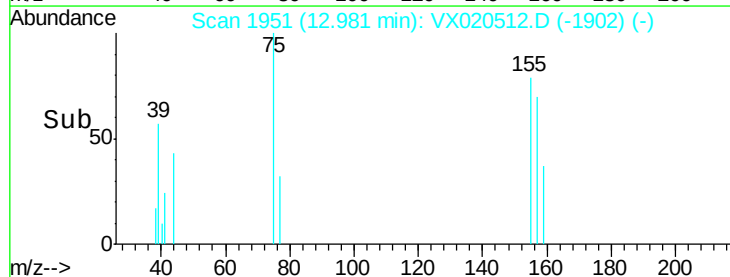
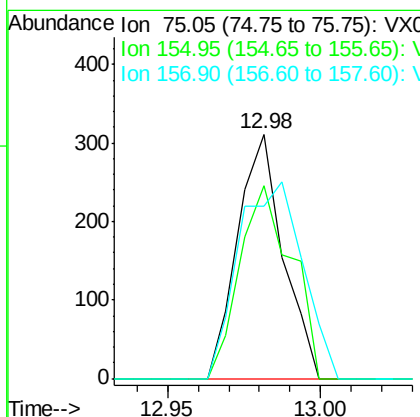
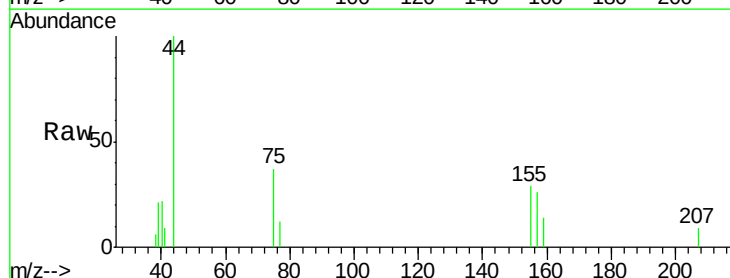
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

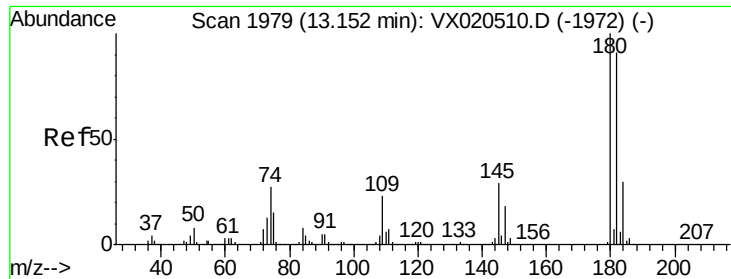
Tot Ion:146 Resp: 6110
 Ion Ratio Lower Upper
 146 100
 111 48.5 36.3 54.5
 148 74.5 51.5 77.3



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.191 ug/L
 RT: 12.98 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Tgt Ion: 75 Resp: 320
 Ion Ratio Lower Upper
 75 100
 155 79.1 69.8 104.8
 157 70.4 90.0 135.0#

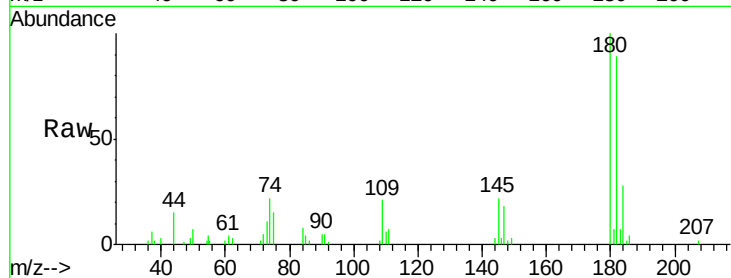




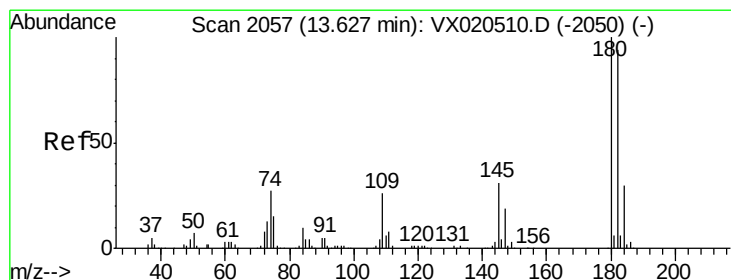
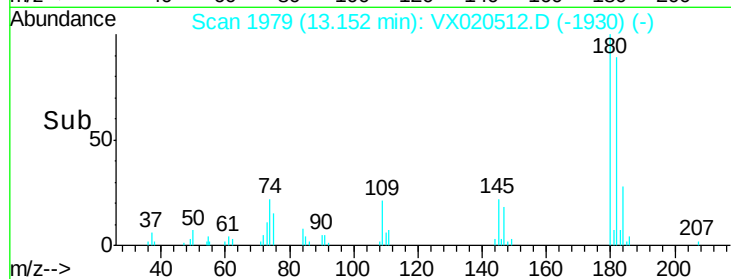
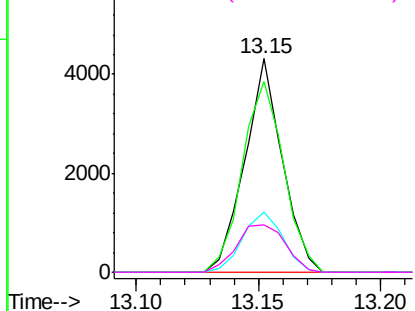
#69
 1,3,5-Trichlorobenzene
 Concen: 0.224 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT1-2021-02

Tot Ion:	180	Resp:	4605
Ion	Ratio	Lower	Upper
180	100		
182	98.4	77.0	115.4
184	30.2	24.6	36.8
145	29.0	23.6	35.4

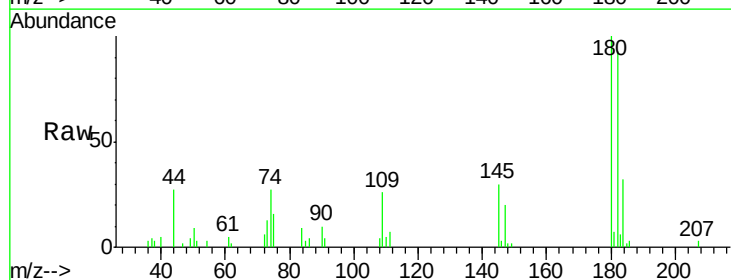


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

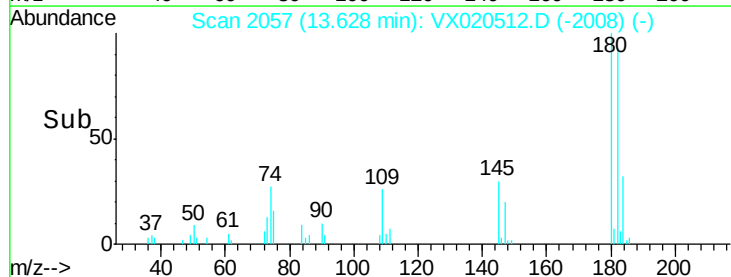
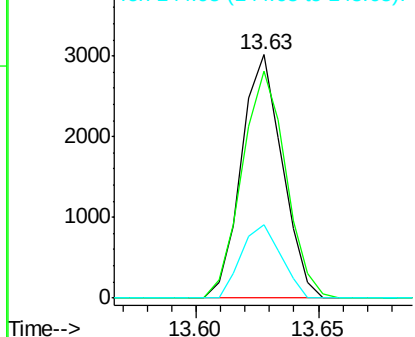


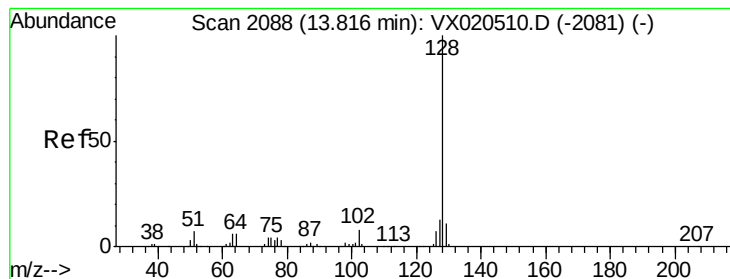
#70
 1,2,4-trichlorobenzene
 Concen: 0.215 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX020512.D
 Acq: 06 Jan 2021 10:54

Tgt Ion:	180	Resp:	3525
Ion	Ratio	Lower	Upper
180	100		
182	99.7	74.3	111.5
145	29.2	24.1	36.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#71

Naphthalene

Concen: 0.176 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT1-2021-02

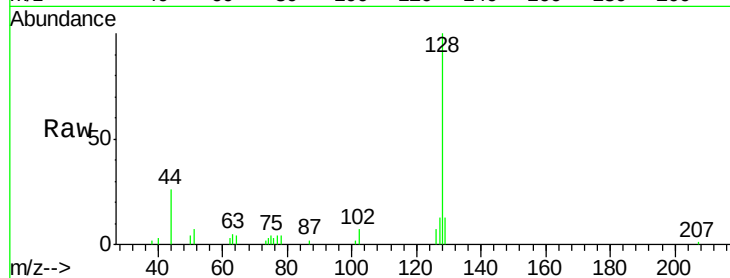
Tot Ion:128 Resp: 4736

Ion Ratio Lower Upper

128 100

129 11.3 8.4 12.6

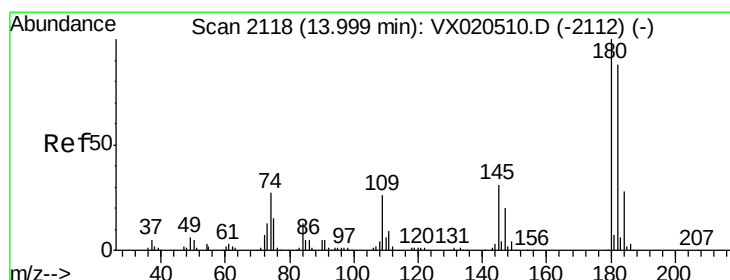
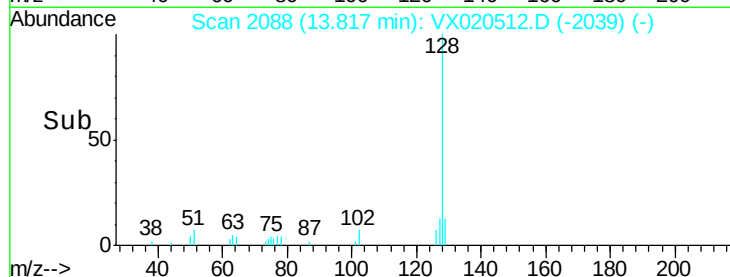
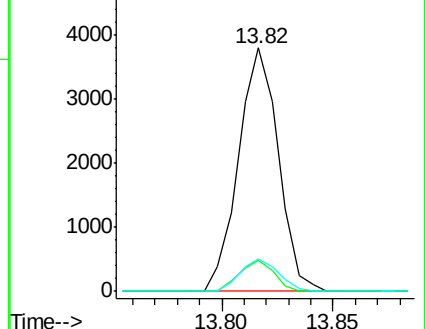
127 12.9 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#72

1,2,3-Trichlorobenzene

Concen: 0.199 ug/L

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX020512.D

Acq: 06 Jan 2021 10:54

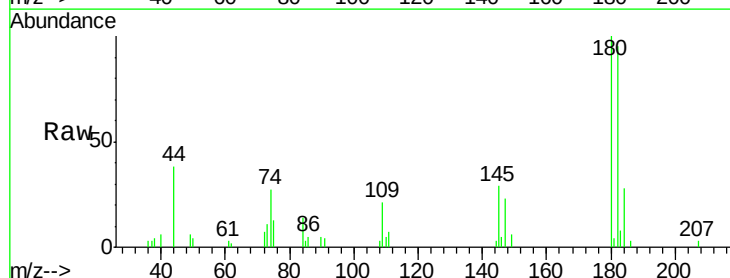
Tgt Ion:180 Resp: 3023

Ion Ratio Lower Upper

180 100

182 100.5 79.3 118.9

145 33.7 26.5 39.7



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

