

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092520\
 Data File : VU040284.D
 Acq On : 24 Sep 2020 20:53
 Operator : SY/MD
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

Quant Time: Sep 25 02:56:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR092420WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 25 02:46:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	202695	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	202318	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	94384	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	65258	4.94	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.80%
7) Chloroethane-d5	1.92	69	55775	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.58	65	33654	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.20%
20) 2-Butanone-d5	4.66	46	256294	51.95	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.90%
24) Chloroform-d	5.08	84	128191	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.72	65	81484	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	5.75	84	252629	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
36) 1,2-Dichloropropane-d6	6.70	67	83947	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.91	98	217870	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	8.19	79	30977	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
46) 2-Hexanone-d5	8.64	63	181072	50.69	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.38%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	70306	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.80%
66) 1,2-Dichlorobenzene-d4	12.19	152	83151	5.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	4436	0.210	ug/L	99
3) Chloromethane	1.53	50	4599	0.221	ug/L	94
5) Vinyl chloride	1.61	62	4298	0.210	ug/L #	65
6) Bromomethane	1.87	94	2389	0.218	ug/L	88
8) Chloroethane	1.94	64	2931	0.240	ug/L	91
9) Trichlorofluoromethane	2.15	101	5802	0.210	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	4024	0.236	ug/L	97
12) 1,1-Dichloroethene	2.59	96	4001	0.253	ug/L #	1
13) Acetone	2.67	43	7629	1.909	ug/L	92
14) Carbon disulfide	2.81	76	12939	0.234	ug/L	99
15) Methyl Acetate	2.97	43	1673	0.172	ug/L #	87
16) Methylene chloride	3.06	84	6903	0.348	ug/L	92
17) Methyl tert-butyl Ether	3.39	73	9258	0.220	ug/L	97
18) trans-1,2-Dichloroethene	3.37	96	3752	0.225	ug/L	84
19) 1,1-Dichloroethane	3.89	63	6913	0.210	ug/L	89
22) cis-1,2-Dichloroethene	4.69	96	3758	0.215	ug/L #	83
23) Bromochloromethane	4.99	128	1637	0.200	ug/L	89

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Quant Time: Sep 25 02:56:23 2020
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 Quant Title : TRACE VOA SFAM1.0
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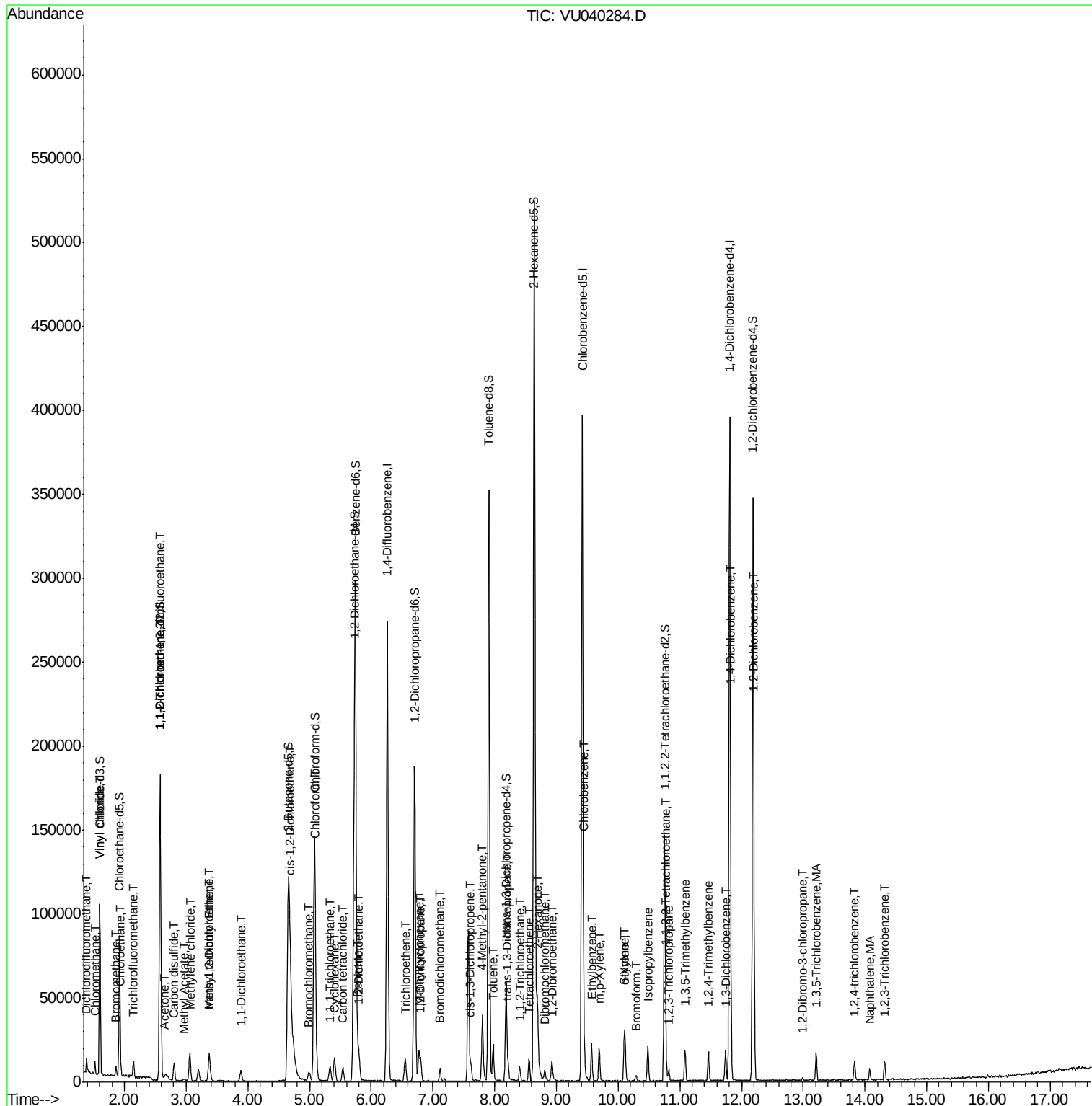
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	5.10	83	11548	0.350	ug/L	90
27) 1,2-Dichloroethane	5.81	62	5346	0.226	ug/L #	95
29) 1,1,1-Trichloroethane	5.34	97	5938	0.209	ug/L	96
30) Cyclohexane	5.40	56	6453	0.208	ug/L	96
31) Carbon tetrachloride	5.54	117	4753	0.196	ug/L	87
33) Benzene	5.79	78	17341	0.247	ug/L	100
34) Trichloroethene	6.56	95	4162	0.228	ug/L	80
35) Methylcyclohexane	6.77	83	5465	0.192	ug/L	93
37) 1,2-Dichloropropane	6.80	63	4237	0.217	ug/L #	92
38) Bromodichloromethane	7.11	83	4682	0.196	ug/L	93
39) cis-1,3-Dichloropropene	7.62	75	5351	0.202	ug/L	92
40) 4-Methyl-2-pentanone	7.80	43	28447	1.906	ug/L #	90
42) Toluene	7.97	91	14041	0.198	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	5114	0.208	ug/L #	72
45) 1,1,2-Trichloroethane	8.40	97	2627	0.198	ug/L	92
47) Tetrachloroethene	8.56	164	2355	0.179	ug/L #	83
48) 2-Hexanone	8.69	43	27272	2.501	ug/L #	95
49) Dibromochloromethane	8.81	129	3106	0.203	ug/L	96
50) 1,2-Dibromoethane	8.93	107	2666	0.207	ug/L #	78
51) Chlorobenzene	9.45	112	9997	0.219	ug/L	92
52) Ethylbenzene	9.57	91	15167	0.193	ug/L	99
53) m,p-Xylene	9.69	106	6013	0.213	ug/L	86
54) o-Xylene	10.10	106	5148	0.189	ug/L	91
55) Styrene	10.11	104	8095	0.172	ug/L	90
57) 1,1,2,2-Tetrachloroethane	10.78	83	3914	0.223	ug/L #	95
59) Bromoform	10.29	173	1460	0.190	ug/L #	94
60) Isopropylbenzene	10.48	105	12523	0.189	ug/L	95
61) 1,2,3-Trichloropropane	10.82	75	2697	0.220	ug/L	97
62) 1,3,5-Trimethylbenzene	11.08	105	10105	0.189	ug/L	92
63) 1,2,4-Trimethylbenzene	11.46	105	9202	0.170	ug/L	100
64) 1,3-Dichlorobenzene	11.74	146	7069	0.216	ug/L	99
65) 1,4-Dichlorobenzene	11.83	146	7052	0.209	ug/L	89
67) 1,2-Dichlorobenzene	12.21	146	7028	0.226	ug/L	91
68) 1,2-Dibromo-3-chloropropan	12.99	75	667	0.232	ug/L	88
69) 1,3,5-Trichlorobenzene	13.21	180	4939	0.214	ug/L	96
70) 1,2,4-trichlorobenzene	13.83	180	3432	0.184	ug/L	99
71) Naphthalene	14.08	128	4905	0.152	ug/L #	90
72) 1,2,3-Trichlorobenzene	14.32	180	3182	0.191	ug/L	93

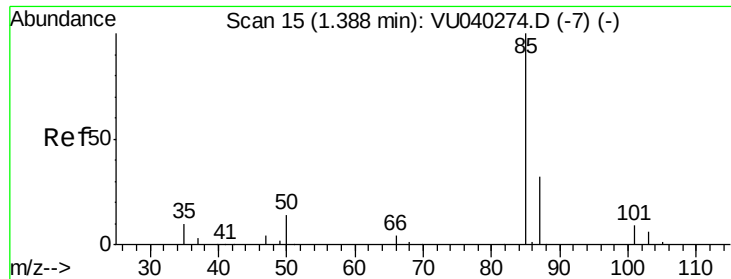
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.210 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

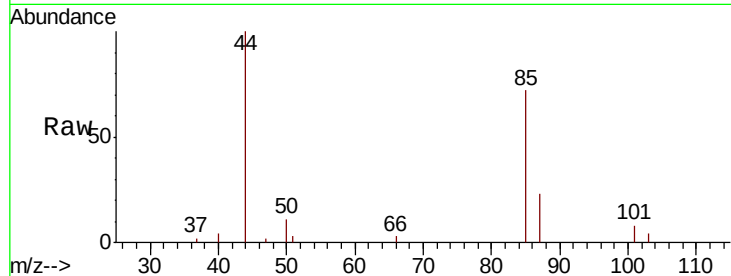
MDL-WATER-02

Tot Ion: 85 Resp: 4436

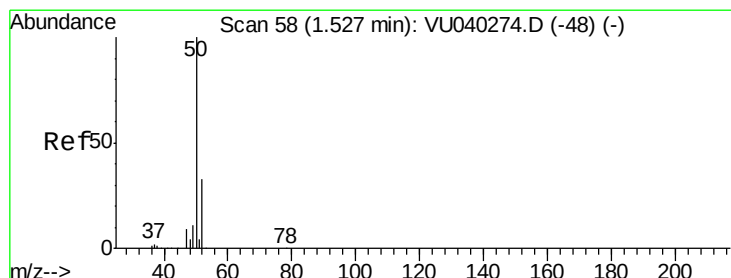
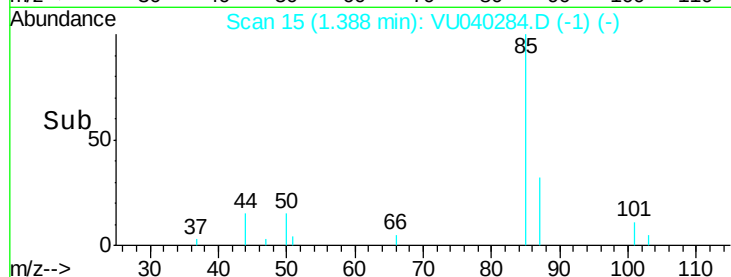
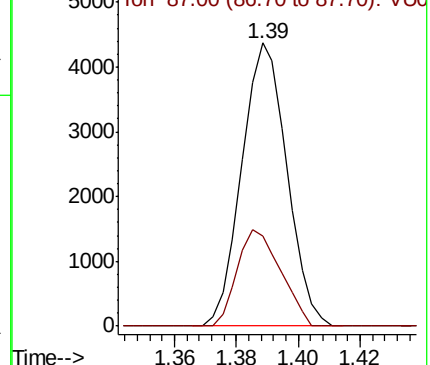
Ion Ratio Lower Upper

85 100

87 32.8 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU040284.D (-1) (-)



#3

Chloromethane

Concen: 0.221 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040284.D

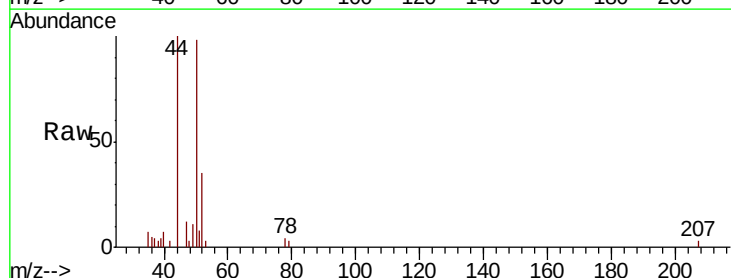
Acq: 24 Sep 2020 20:53

Tgt Ion: 50 Resp: 4599

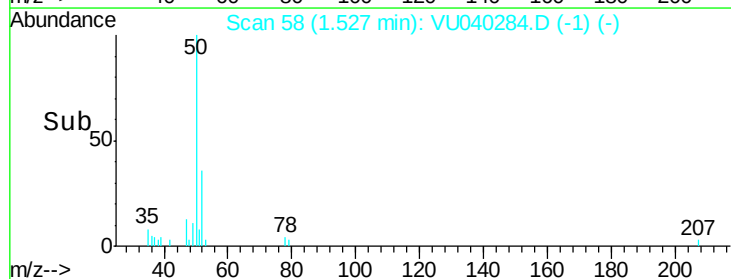
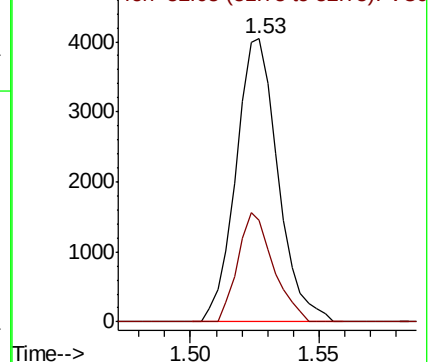
Ion Ratio Lower Upper

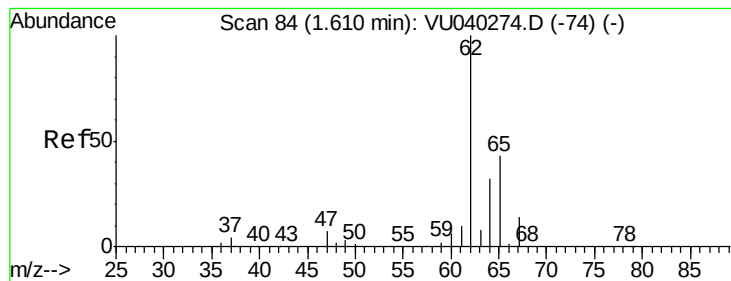
50 100

52 35.9 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU040284.D (-1) (-)





#5

Vinyl chloride

Concen: 0.210 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

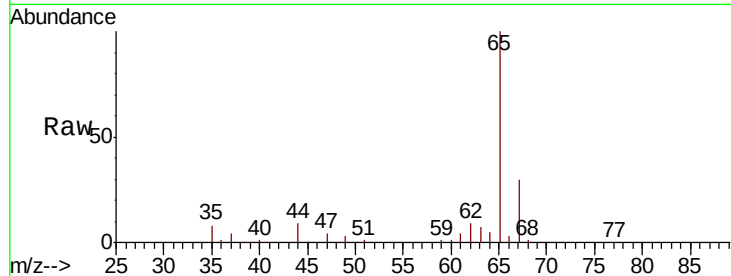
MDL-WATER-02

Tot Ion: 62 Resp: 4298

Ion Ratio Lower Upper

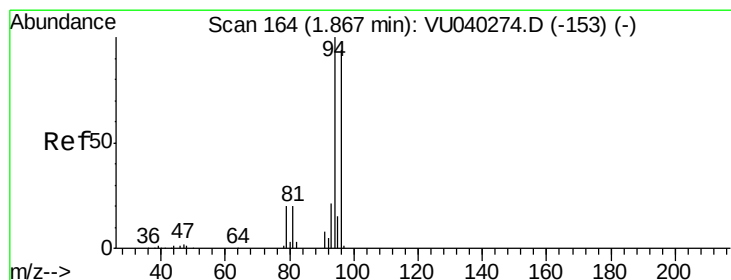
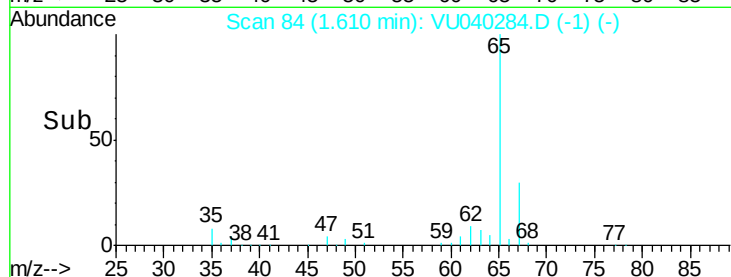
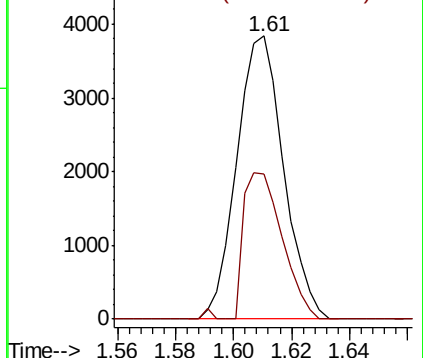
62 100

64 51.5 22.3 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.218 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040284.D

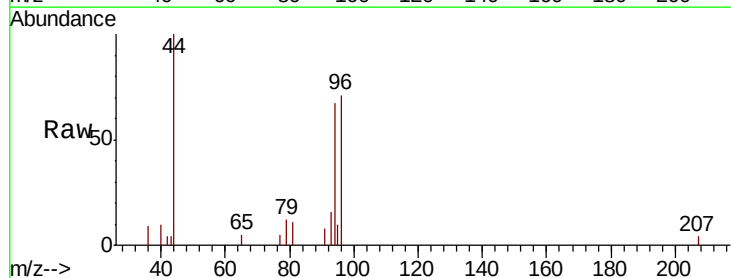
Acq: 24 Sep 2020 20:53

Tgt Ion: 94 Resp: 2389

Ion Ratio Lower Upper

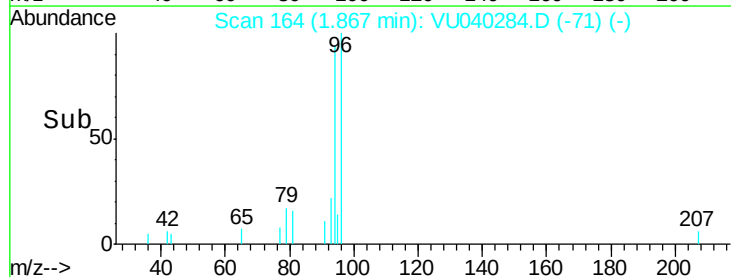
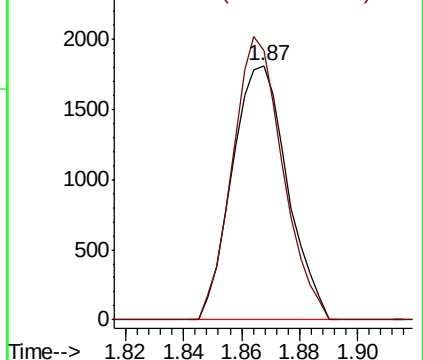
94 100

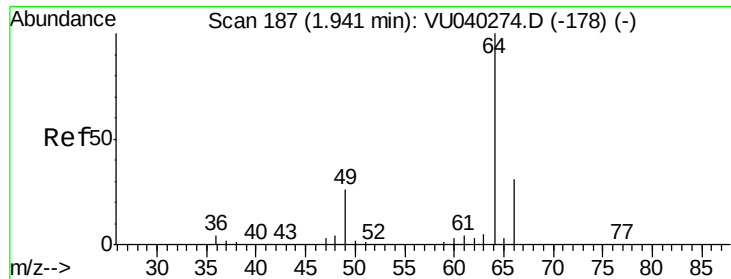
96 106.3 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.240 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

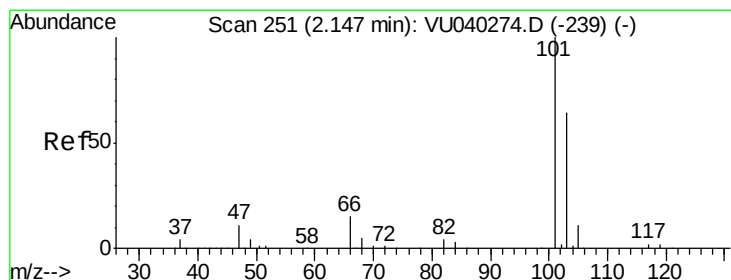
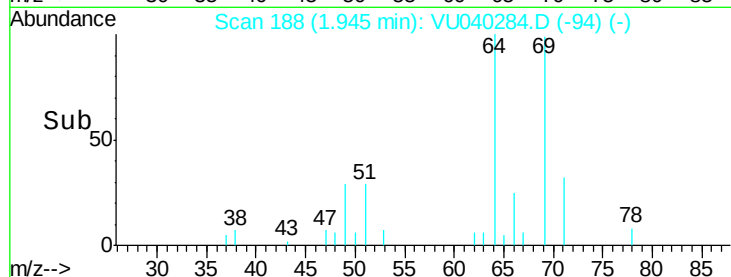
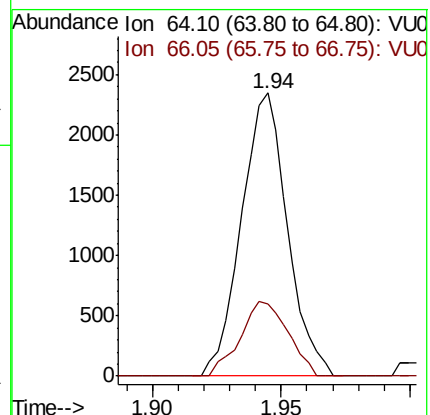
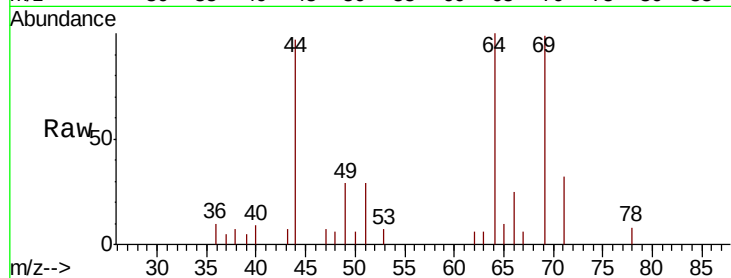
MDL-WATER-02

Tot Ion: 64 Resp: 2931

Ion Ratio Lower Upper

64 100

66 25.5 21.3 39.6



#9

Trichlorofluoromethane

Concen: 0.210 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU040284.D

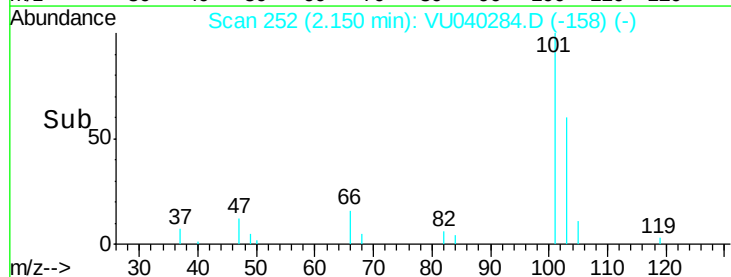
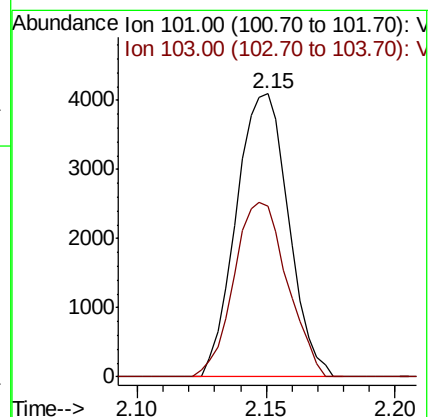
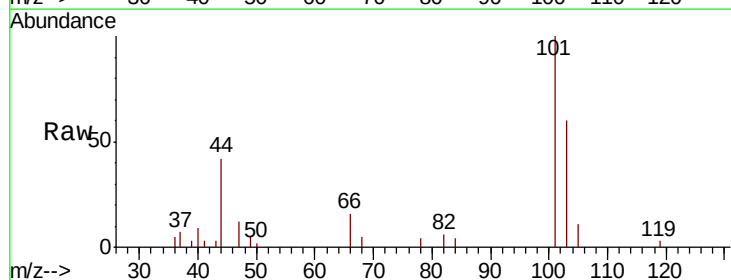
Acq: 24 Sep 2020 20:53

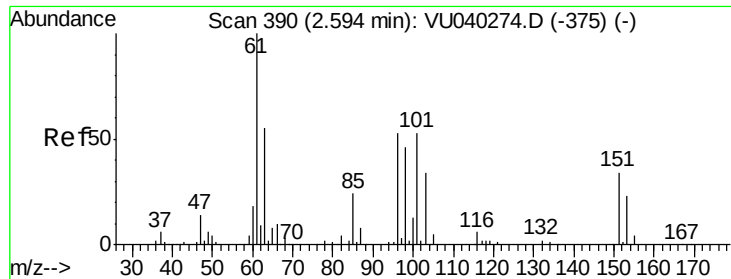
Tgt Ion: 101 Resp: 5802

Ion Ratio Lower Upper

101 100

103 62.8 51.2 76.8





#10

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

Concen: 0.236 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

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MDL-WATER-02

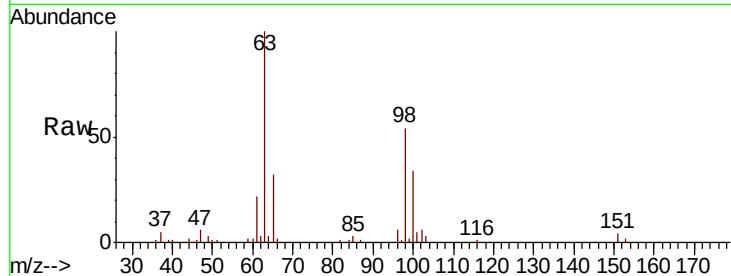
Tot Ion:101 Resp: 4024

Ion Ratio Lower Upper

101 100

85 45.9 36.7 55.1

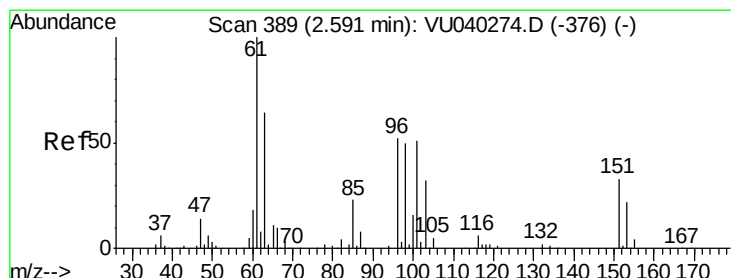
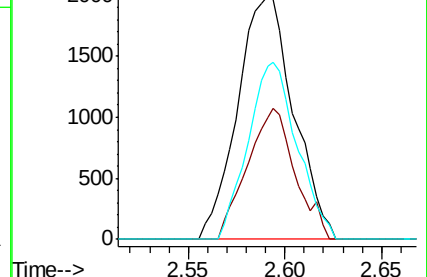
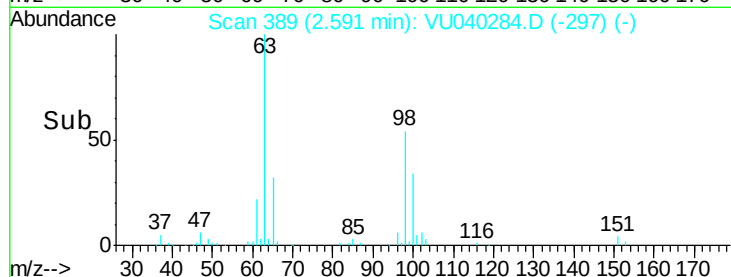
151 63.6 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.253 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

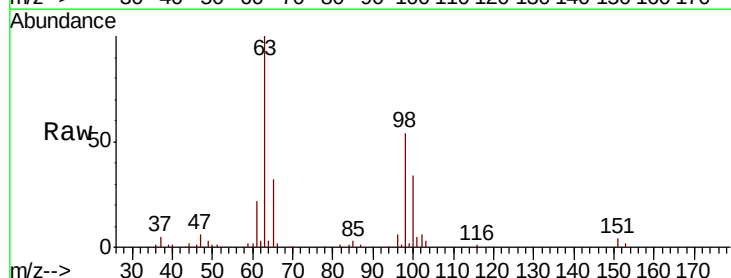
Tgt Ion: 96 Resp: 4001

Ion Ratio Lower Upper

96 100

61 337.9 134.3 249.3#

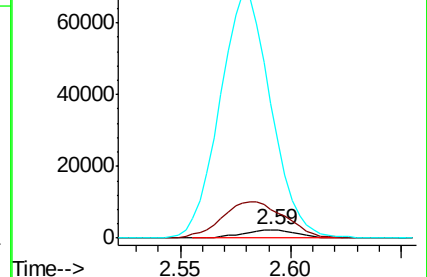
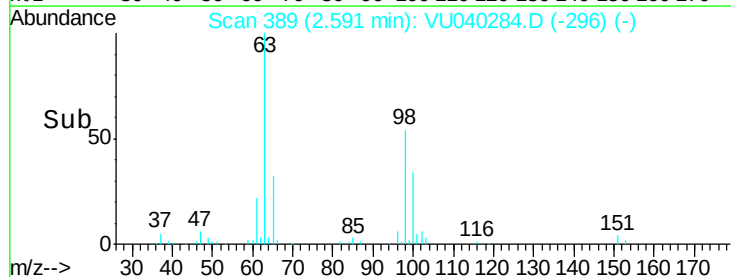
63 1556.4 88.5 164.4#

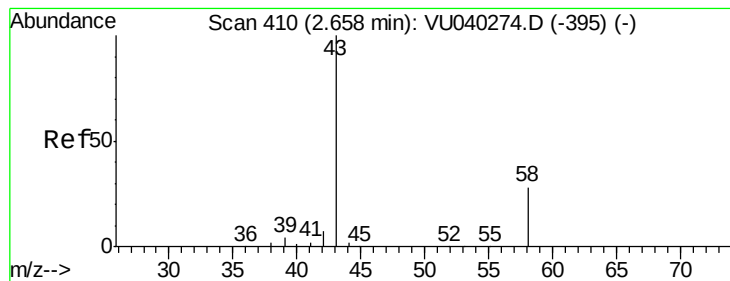


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.909 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.01 min

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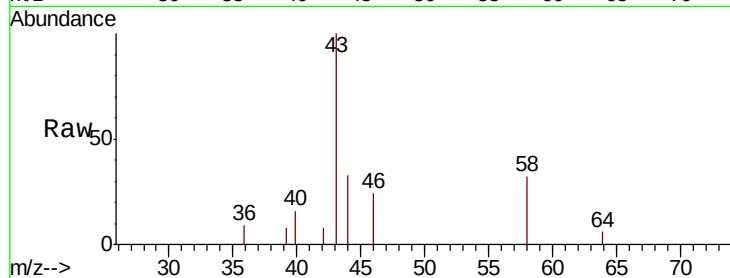
MDL-WATER-02

Tot Ion: 43 Resp: 7629

Ion Ratio Lower Upper

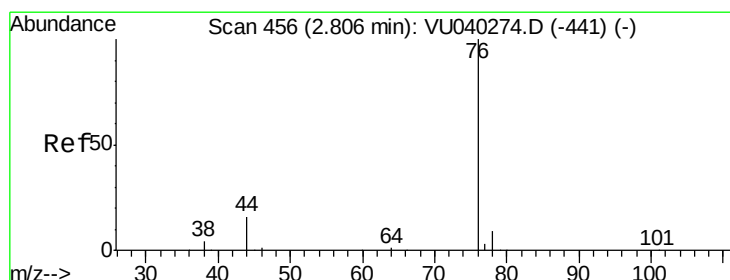
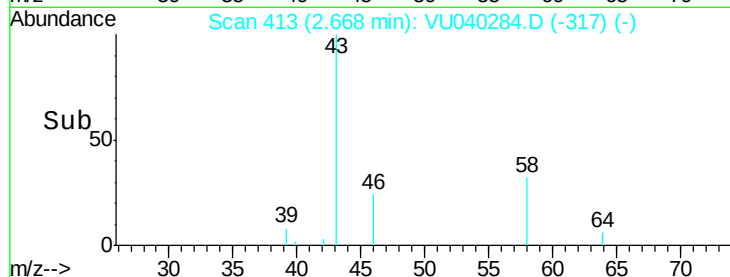
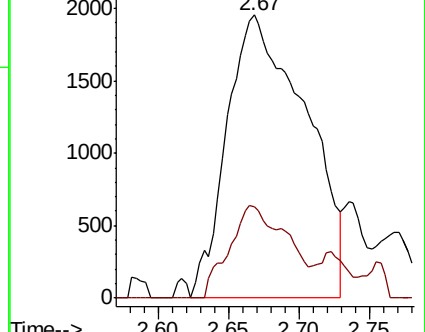
43 100

58 23.9 0.0 56.4



Abundance Ion 43.05 (42.75 to 43.75): VU040284.D (-317) (-)

Ion 58.05 (57.75 to 58.75): VU040284.D (-317) (-)



#14

Carbon disulfide

Concen: 0.234 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040284.D

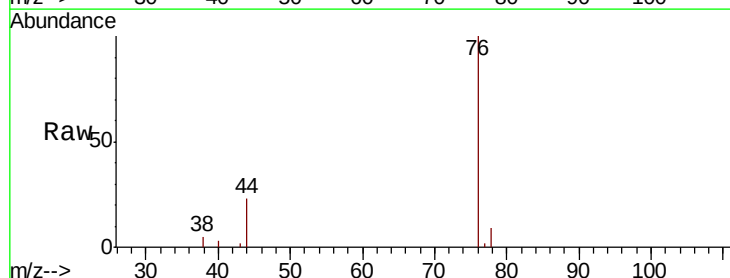
Acq: 24 Sep 2020 20:53

Tgt Ion: 76 Resp: 12939

Ion Ratio Lower Upper

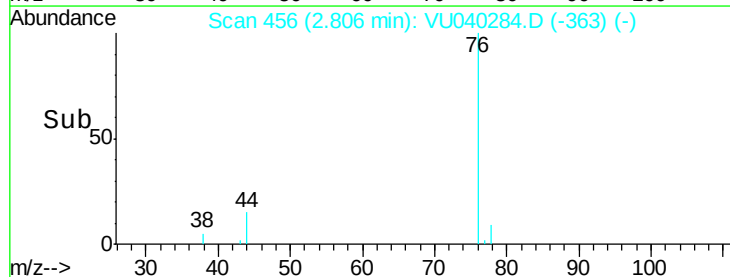
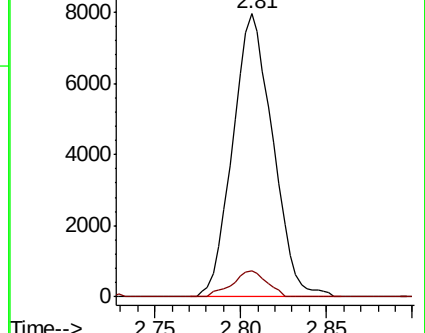
76 100

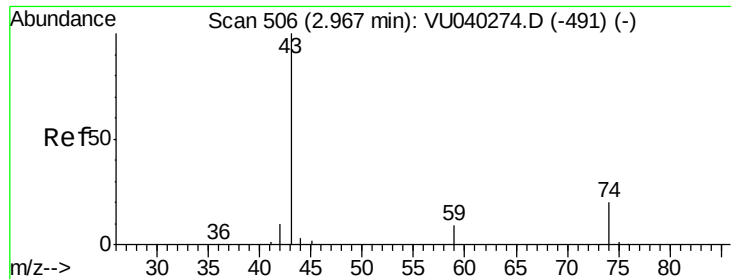
78 9.1 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU040284.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040284.D (-363) (-)





#15

Methvl Acetate

Concen: 0.172 ug/L

RT: 2.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

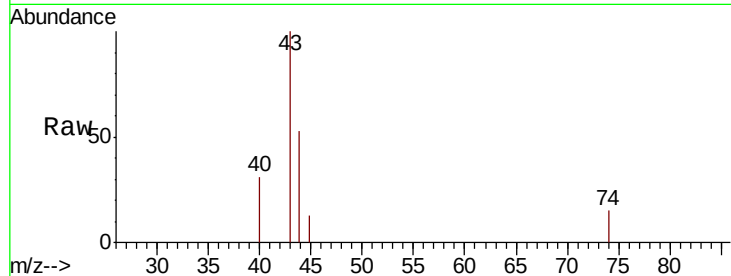
MDL-WATER-02

Tot Ion: 43 Resp: 1673

Ion Ratio Lower Upper

43 100

74 14.9 16.9 25.3#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.97

800

600

400

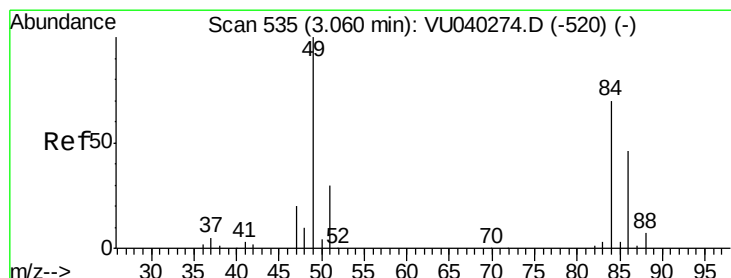
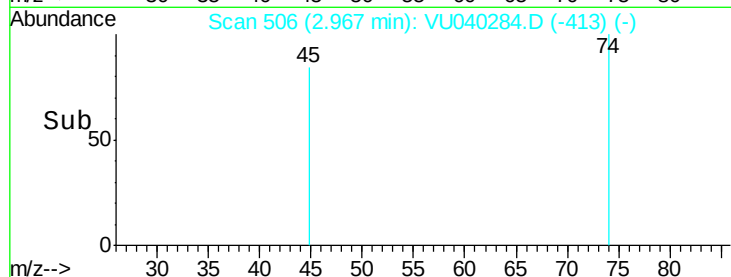
200

0

2.95

3.00

Time-->



#16

Methylene chloride

Concen: 0.348 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

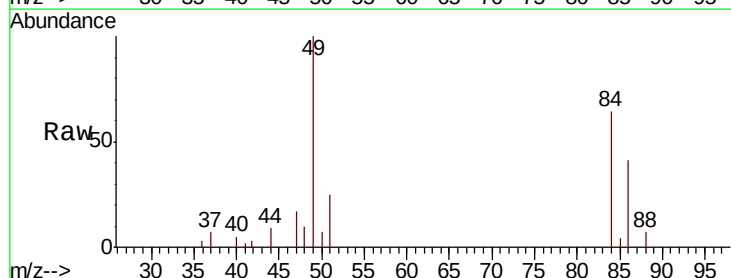
Tgt Ion: 84 Resp: 6903

Ion Ratio Lower Upper

84 100

86 63.9 45.8 85.0

49 156.1 100.4 186.4



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

6000

4000

2000

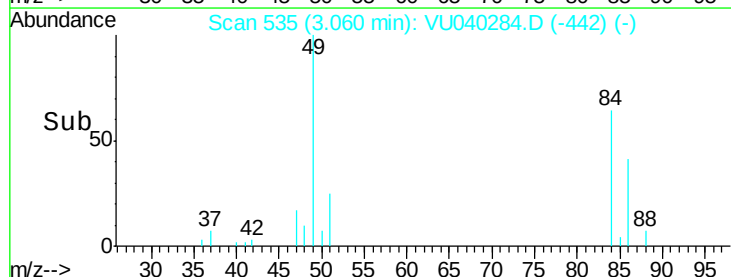
0

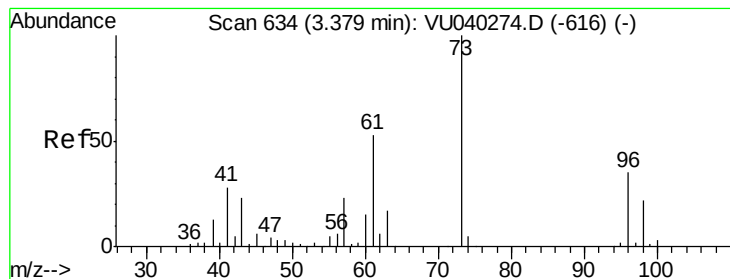
3.00

3.05

3.10

Time-->





#17

Methyl tert-butyl Ether

Concen: 0.220 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.01 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

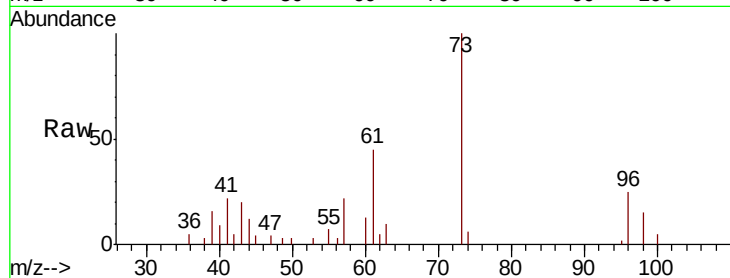
Tot Ion: 73 Resp: 9258

Ion Ratio Lower Upper

73 100

43 21.5 19.0 28.6

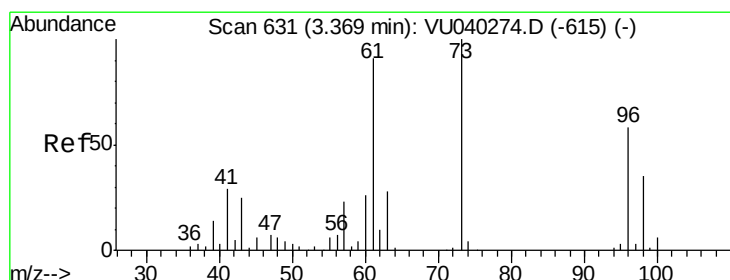
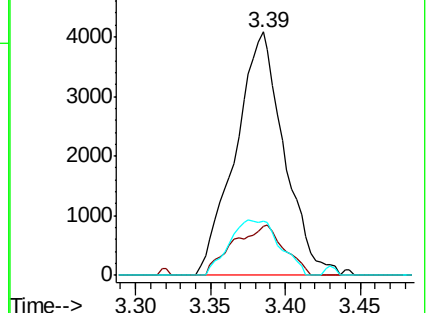
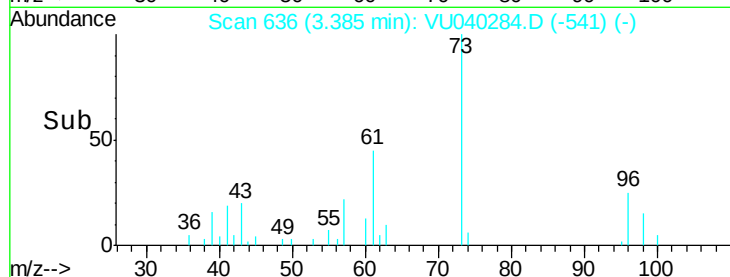
57 23.3 18.6 27.8



Abundance Ion 73.10 (72.80 to 73.80): VU040284.D (-541) (-)

Ion 43.05 (42.75 to 43.75): VU040284.D (-541) (-)

Ion 57.10 (56.80 to 57.80): VU040284.D (-541) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.225 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

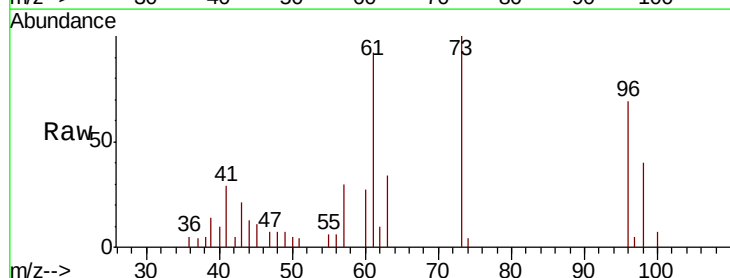
Tgt Ion: 96 Resp: 3752

Ion Ratio Lower Upper

96 100

61 132.3 110.7 205.5

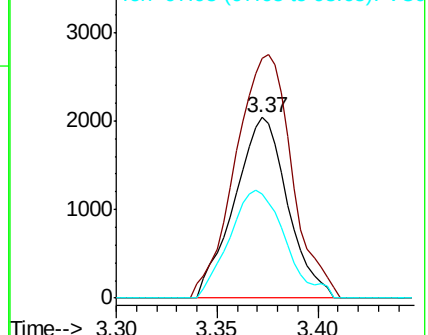
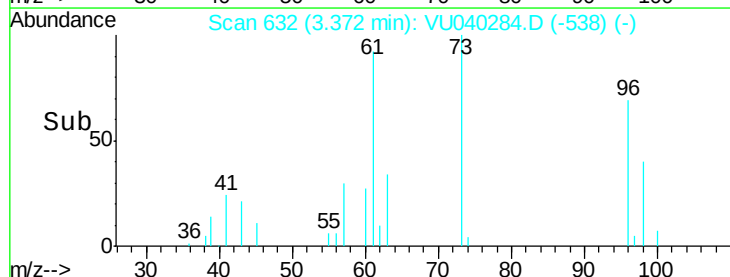
98 57.2 43.1 80.1

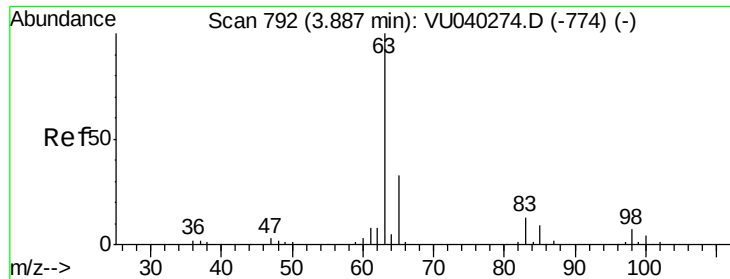


Abundance Ion 96.00 (95.70 to 96.70): VU040284.D (-538) (-)

Ion 61.05 (60.75 to 61.75): VU040284.D (-538) (-)

Ion 97.95 (97.65 to 98.65): VU040284.D (-538) (-)





#19

1,1-Dichloroethane

Concen: 0.210 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

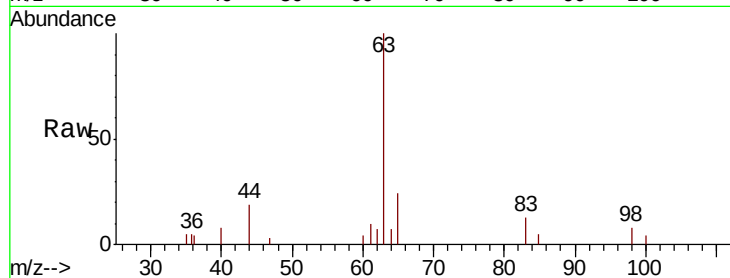
Tot Ion: 63 Resp: 6913

Ion Ratio Lower Upper

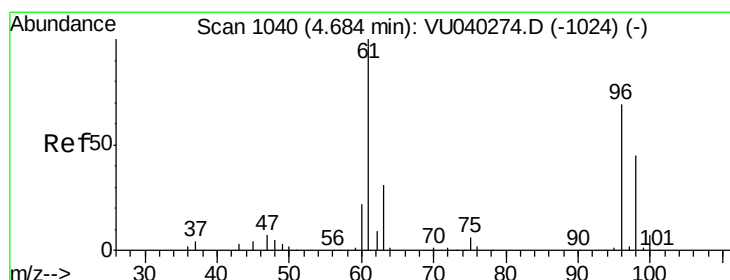
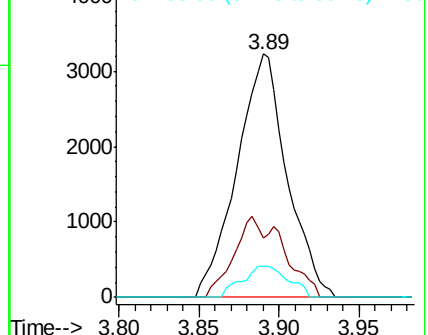
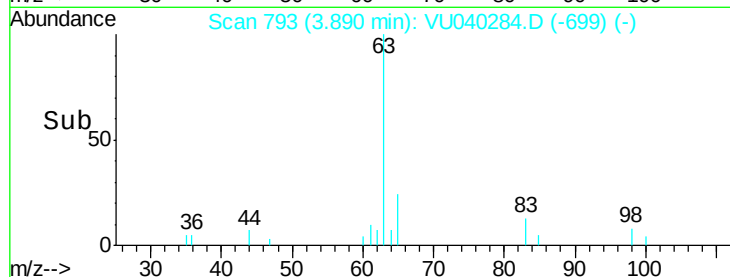
63 100

65 24.2 23.0 42.6

83 12.9 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU040284.D (-699) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.215 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

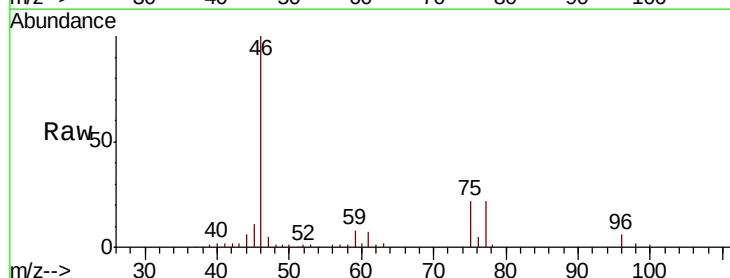
Tgt Ion: 96 Resp: 3758

Ion Ratio Lower Upper

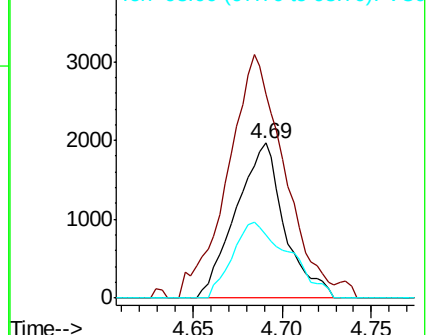
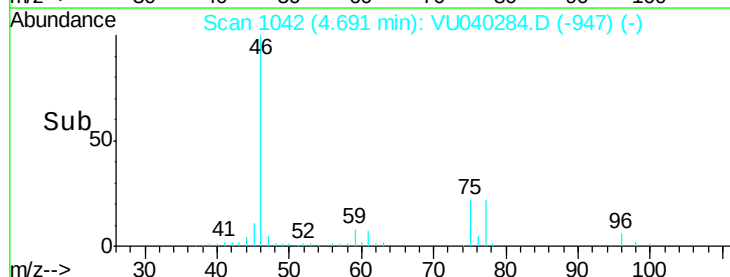
96 100

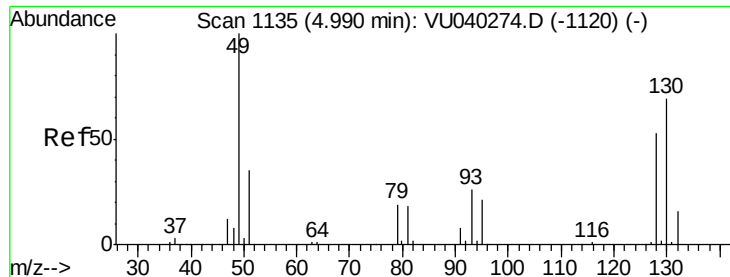
61 131.9 101.9 189.3

98 40.4 46.0 85.4#



Abundance Ion 96.00 (95.70 to 96.70): VU040284.D (-947) (-)





#23

Bromochloromethane

Concen: 0.200 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

Tot Ion:128 Resp: 1637

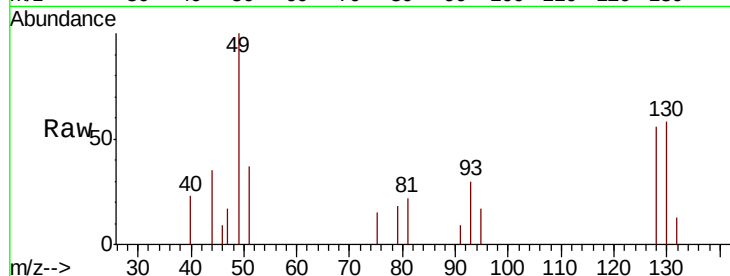
Ion Ratio Lower Upper

128 100

49 180.1 133.0 247.0

130 103.7 91.8 170.6

51 65.9 53.3 79.9

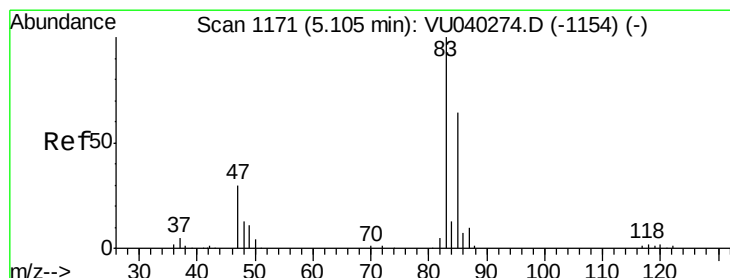
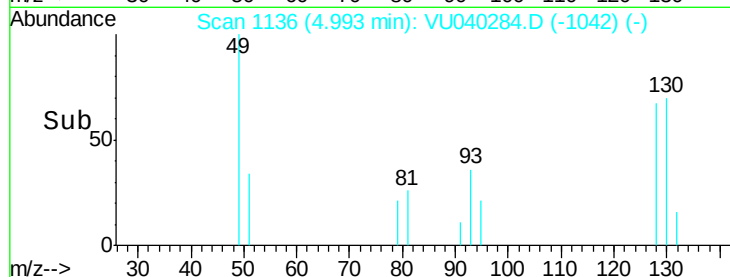
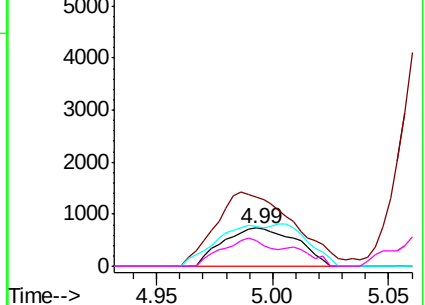


Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0



#25

Chloroform

Concen: 0.350 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU040284.D

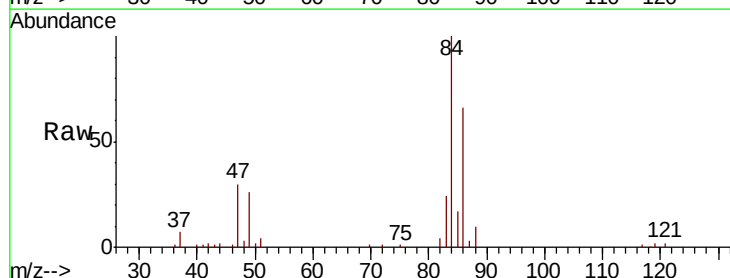
Acq: 24 Sep 2020 20:53

Tgt Ion: 83 Resp: 11548

Ion Ratio Lower Upper

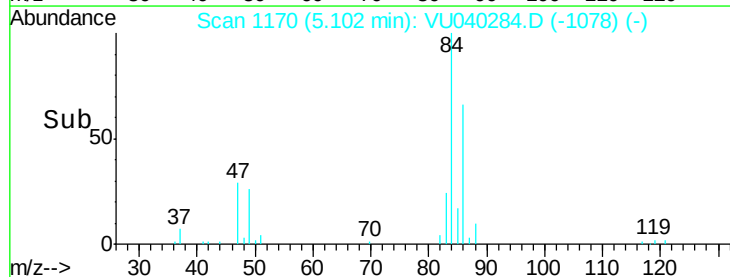
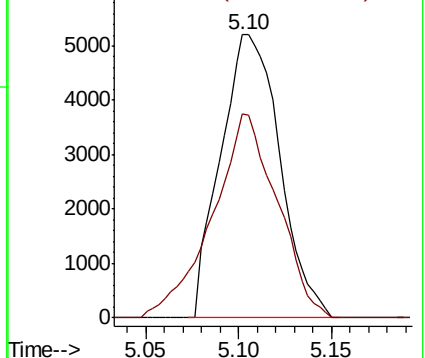
83 100

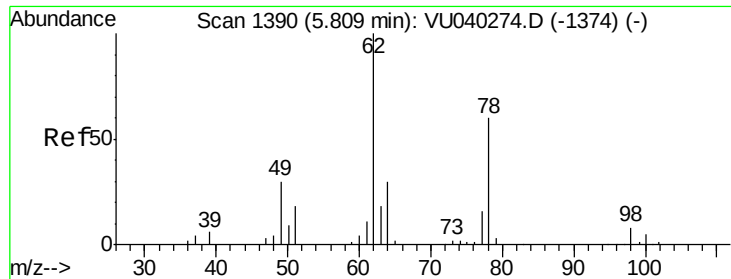
85 72.1 45.2 84.0



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

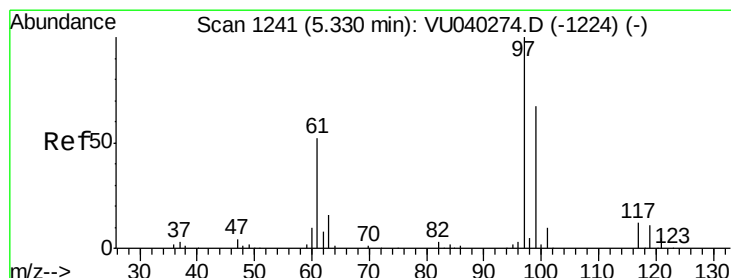
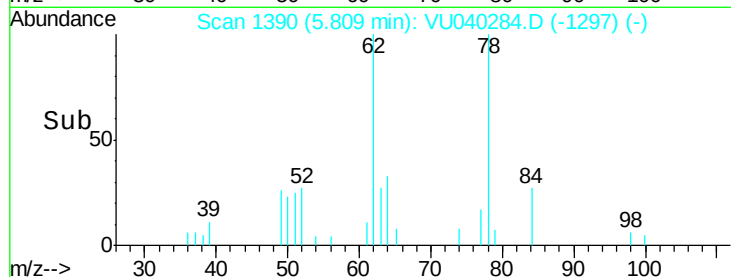
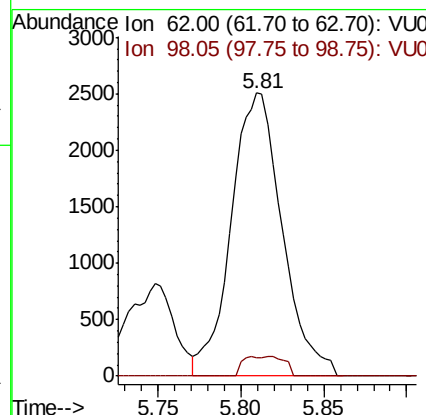
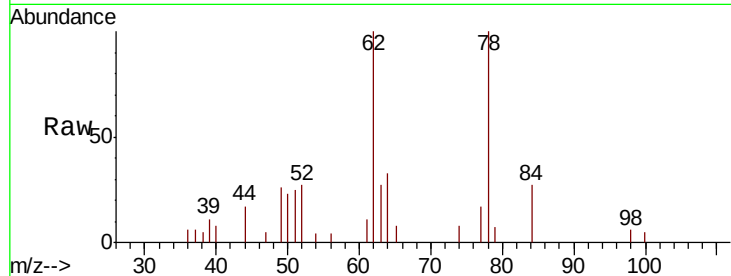




#27
 1,2-Dichloroethane
 Concen: 0.226 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

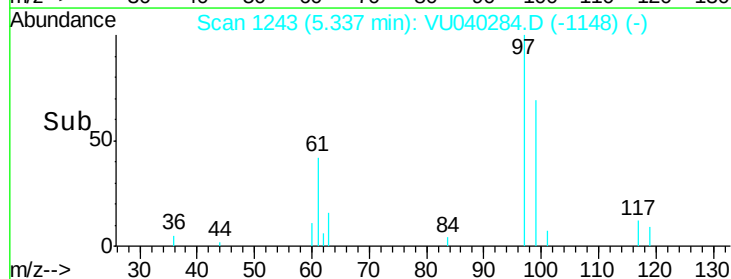
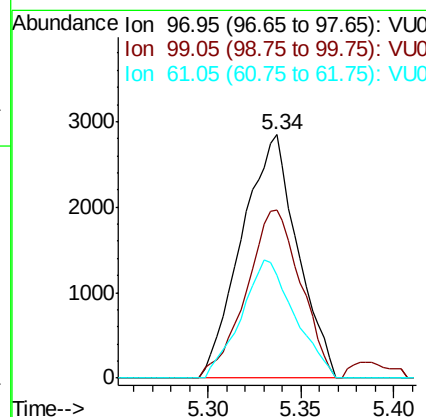
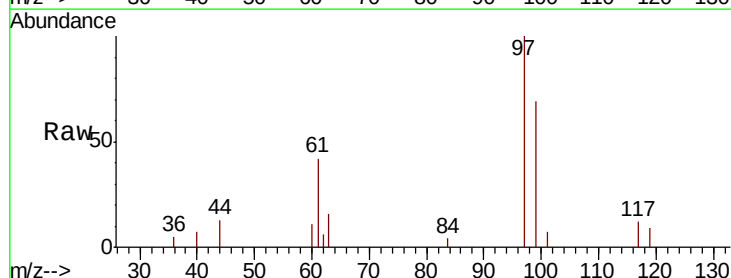
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

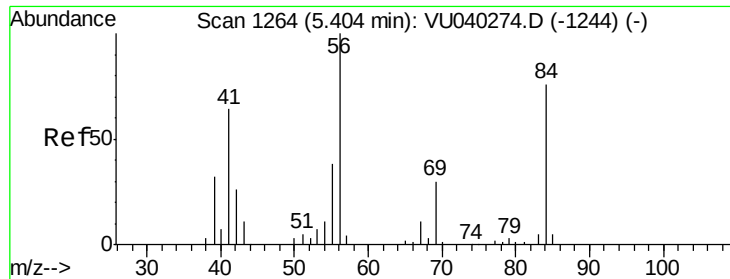
Tot Ion: 62 Resp: 5346
 Ion Ratio Lower Upper
 62 100
 98 6.5 6.5 9.7#



#29
 1,1,1-Trichloroethane
 Concen: 0.209 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.01 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

Tgt Ion: 97 Resp: 5938
 Ion Ratio Lower Upper
 97 100
 99 67.1 52.1 78.1
 61 46.4 40.2 60.4

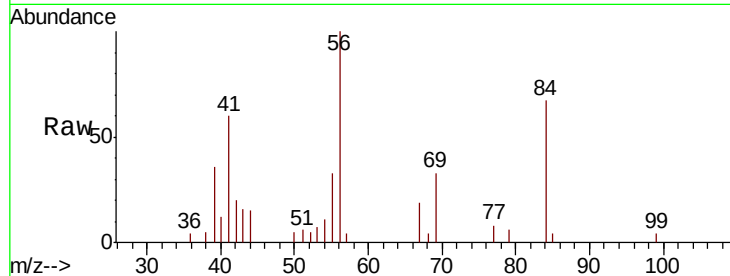




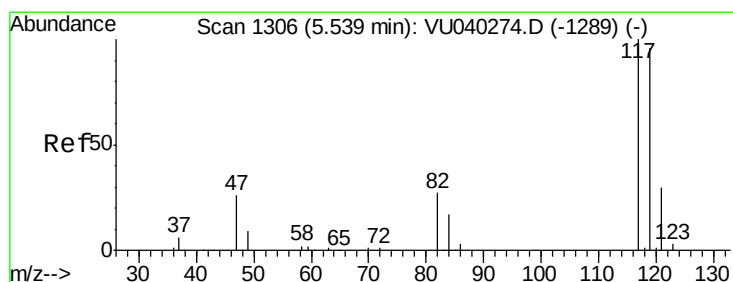
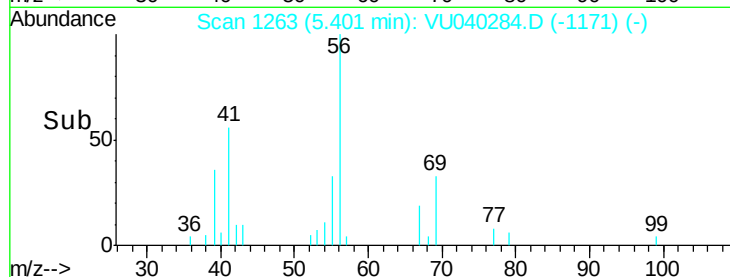
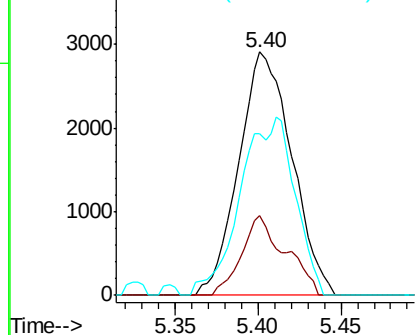
#30
Cyclohexane
Concen: 0.208 ug/L
RT: 5.40 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

Tot Ion: 56 Resp: 6453
Ion Ratio Lower Upper
56 100
69 27.0 23.0 34.6
84 75.7 63.3 94.9

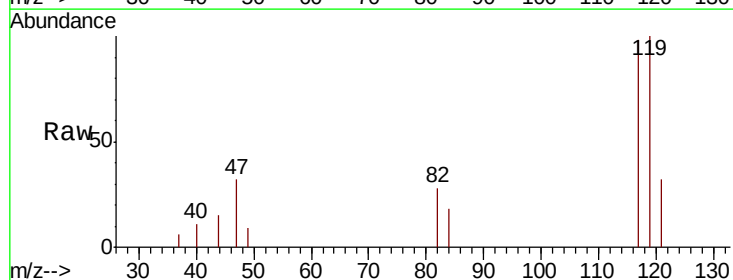


Abundance Ion 56.10 (55.80 to 56.80): VU040284.D (-1171) (-)
Ion 69.15 (68.85 to 69.85): VU040284.D (-1171) (-)
Ion 84.15 (83.85 to 84.85): VU040284.D (-1171) (-)

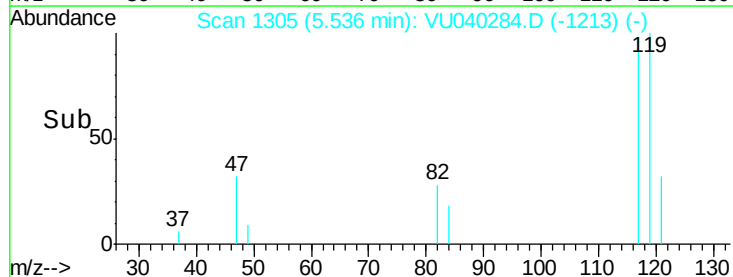
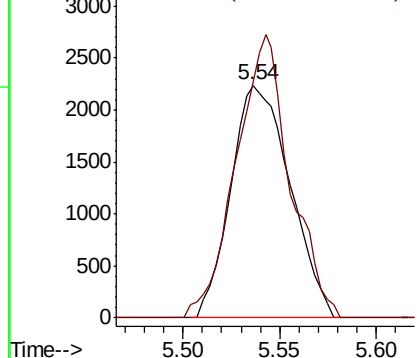


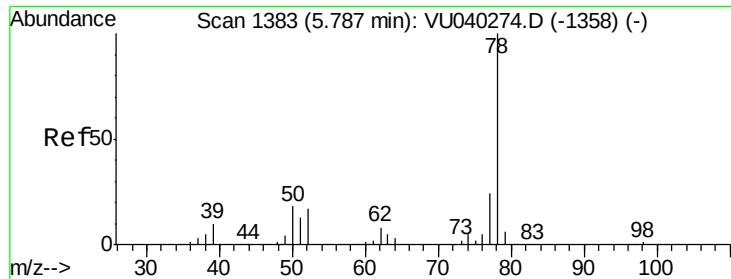
#31
Carbon tetrachloride
Concen: 0.196 ug/L
RT: 5.54 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

Tgt Ion: 117 Resp: 4753
Ion Ratio Lower Upper
117 100
119 111.1 78.6 117.8



Abundance Ion 116.90 (116.60 to 117.60): VU040284.D (-1213) (-)
Ion 118.90 (118.60 to 119.60): VU040284.D (-1213) (-)





#33

Benzene

Concen: 0.247 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

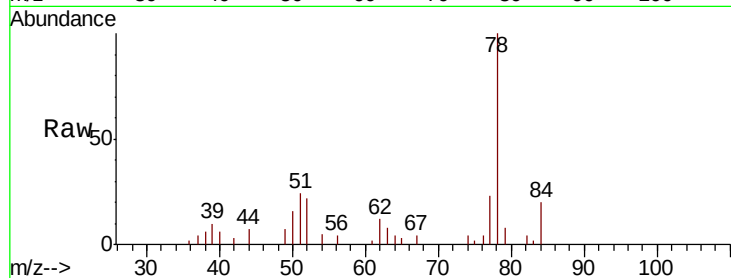
Instrument :

MSVOA_U

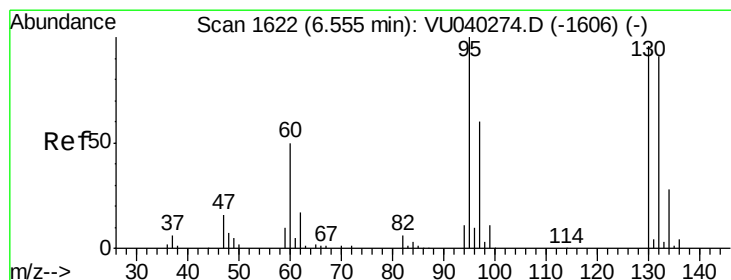
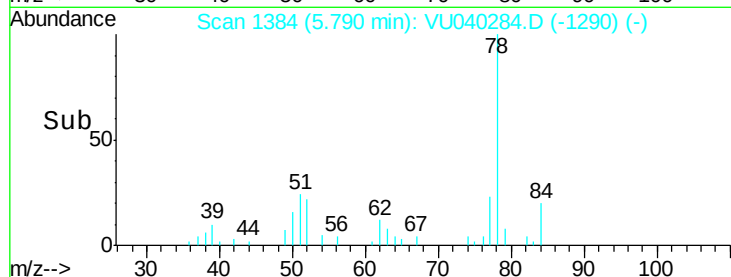
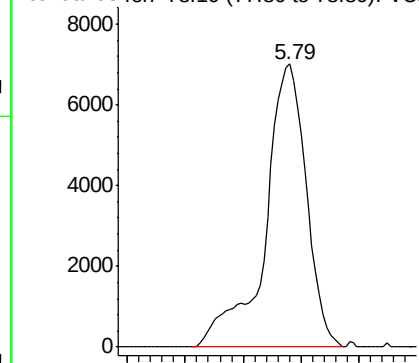
ClientSampleId :

MDL-WATER-02

Tgt Ion: 78 Resp: 17341



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.228 ug/L

RT: 6.56 min Scan# 1623

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Tgt Ion: 95 Resp: 4162

Ion	Ratio	Lower	Upper
95	100		
97	45.9	42.1	78.3
132	81.9	63.8	118.4
130	67.7	67.3	125.1

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

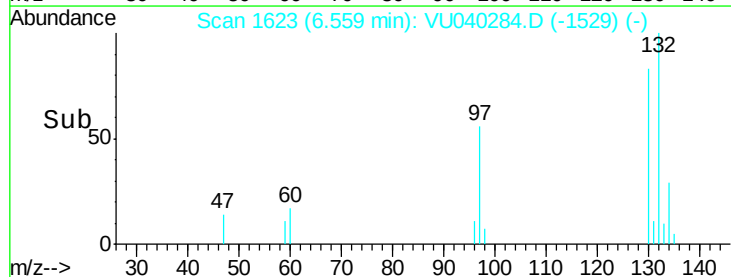
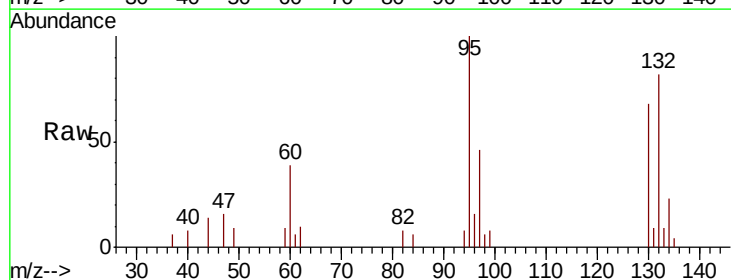
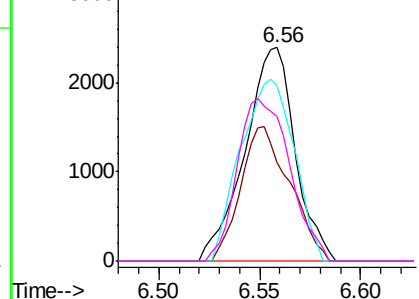
Ion 129.95 (129.65 to 130.65): VU0

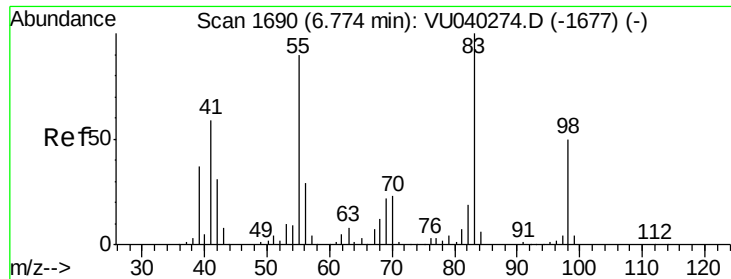
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

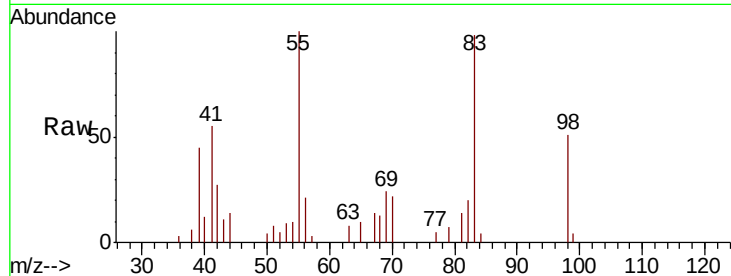




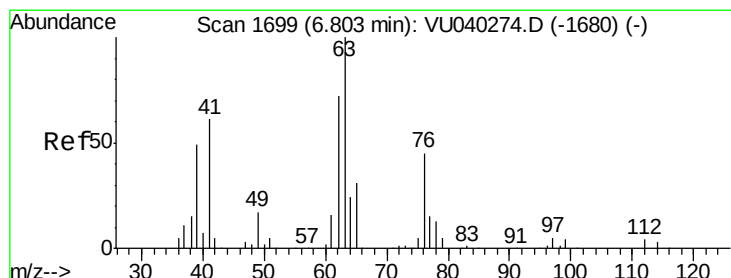
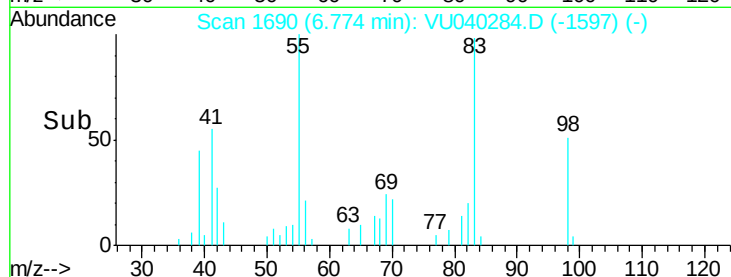
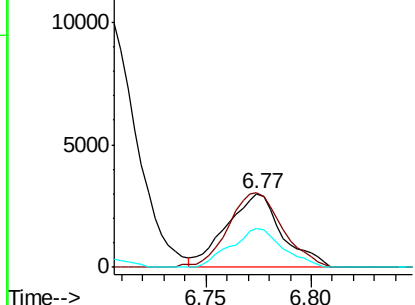
#35
Methylvlcyclohexane
Concen: 0.192 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

Tot Ion: 83 Resp: 5465
Ion Ratio Lower Upper
83 100
55 99.6 71.7 107.5
98 49.3 38.6 58.0

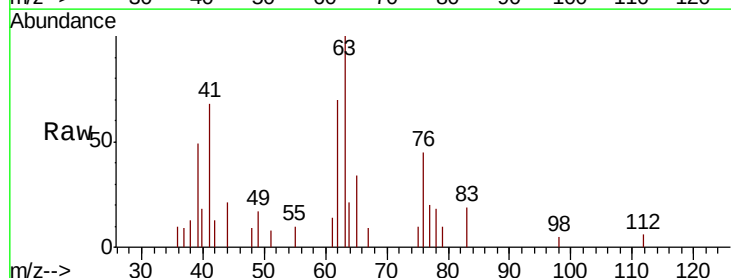


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

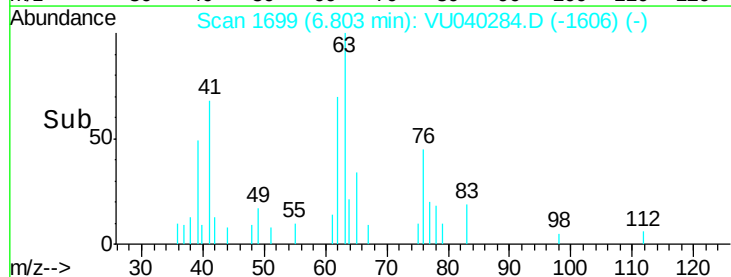
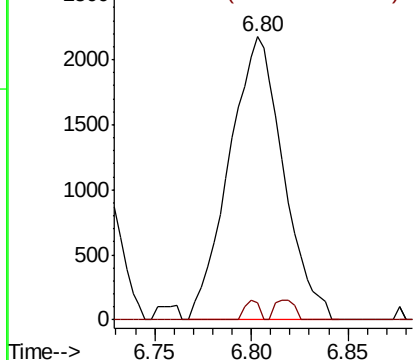


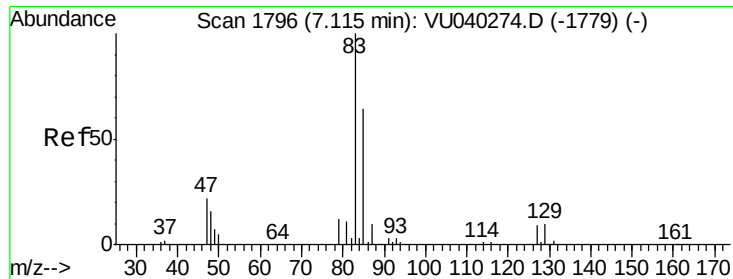
#37
1,2-Dichloropropane
Concen: 0.217 ug/L
RT: 6.80 min Scan# 1699
Delta R.T. 0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

Tgt Ion: 63 Resp: 4237
Ion Ratio Lower Upper
63 100
112 1.7 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

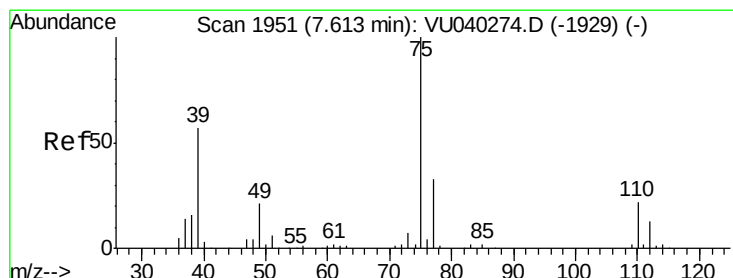
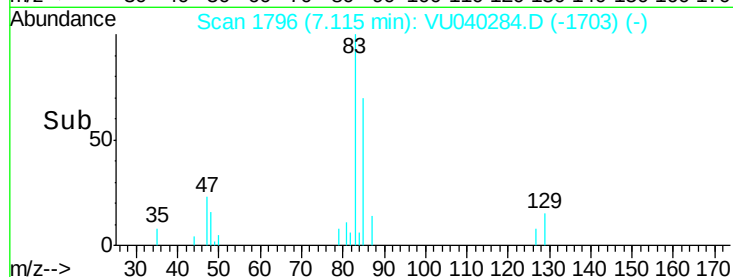
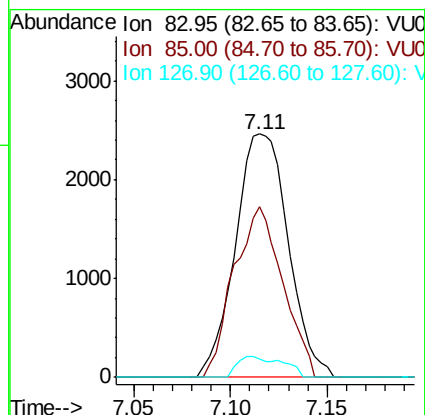
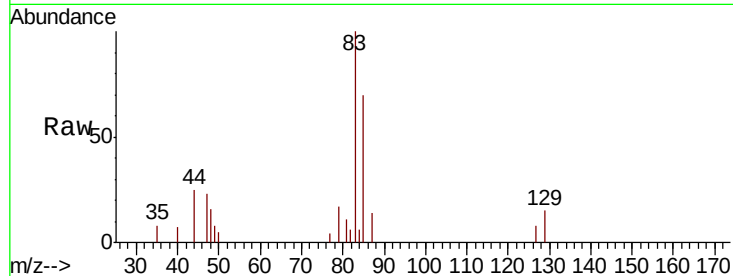




#38
 Bromodichloromethane
 Concen: 0.196 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

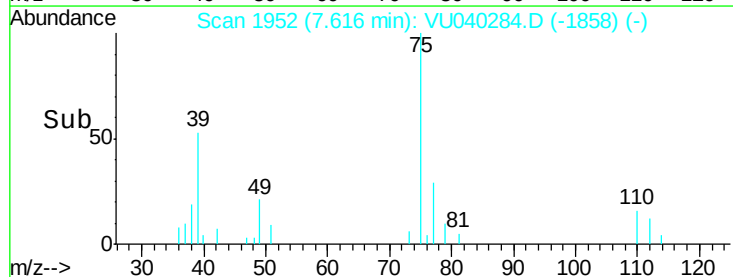
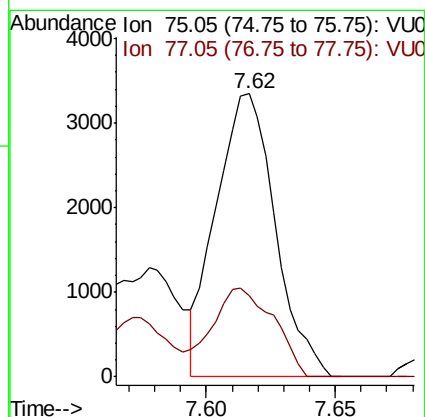
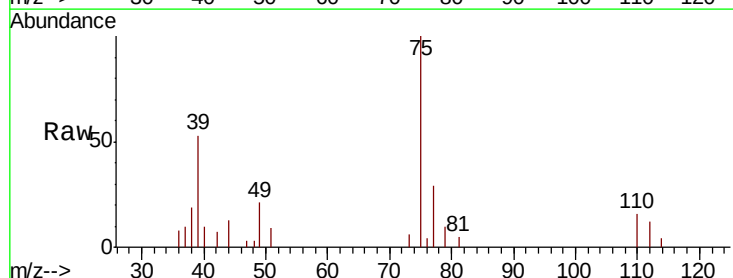
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

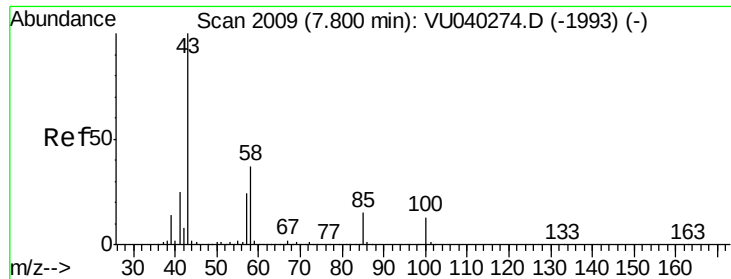
Tot Ion: 83 Resp: 4682
 Ion Ratio Lower Upper
 83 100
 85 70.0 44.6 82.8
 127 7.6 6.8 10.2



#39
 cis-1,3-Dichloropropene
 Concen: 0.202 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

Tgt Ion: 75 Resp: 5351
 Ion Ratio Lower Upper
 75 100
 77 28.7 23.4 43.4

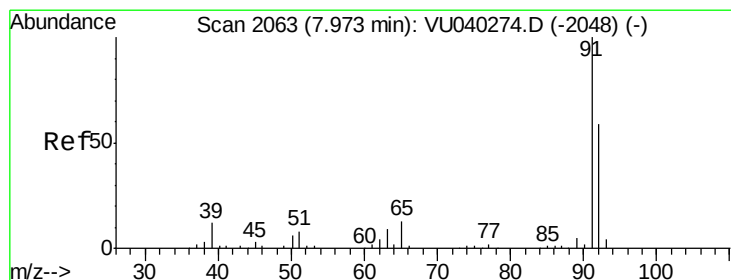
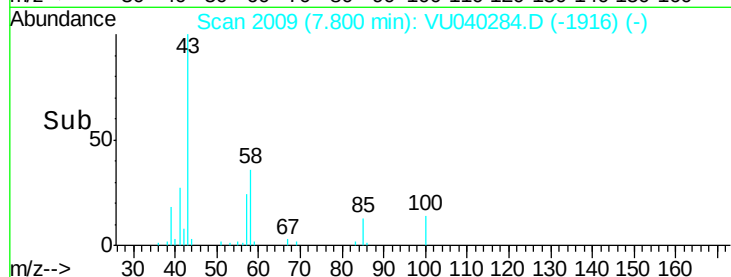
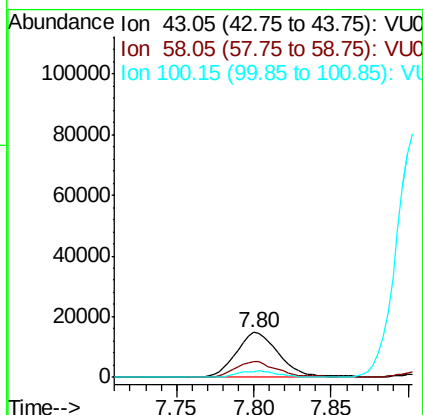
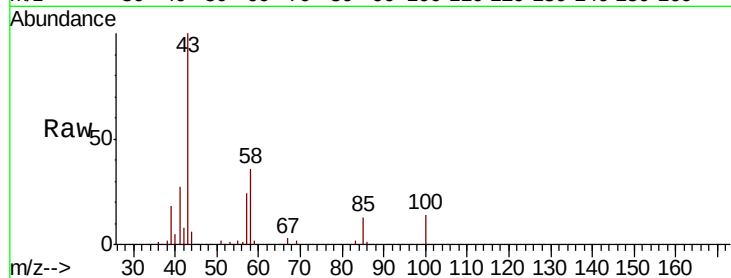




#40
4-Methyl-2-pentanone
Concen: 1.906 ug/L
RT: 7.80 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

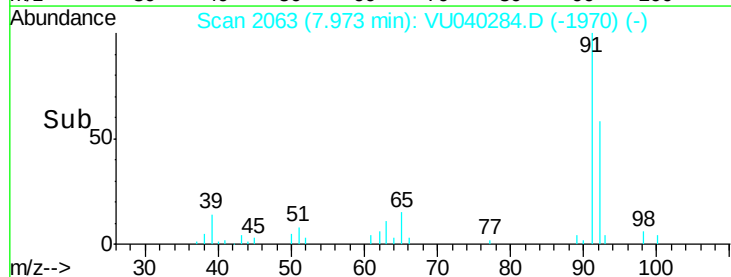
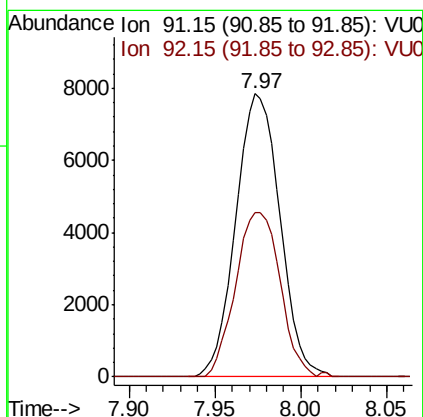
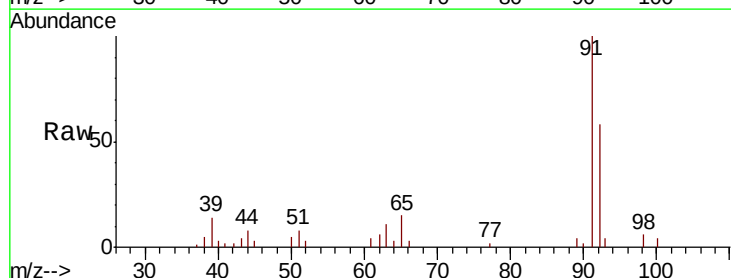
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

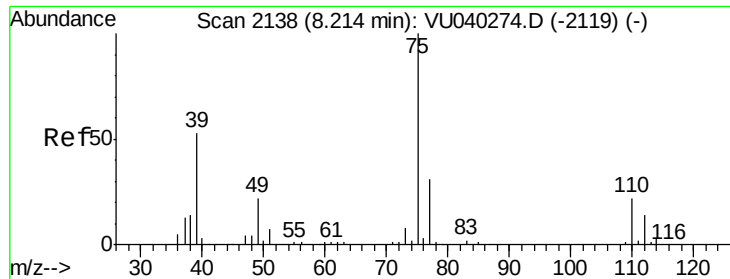
Tot Ion: 43 Resp: 28447
Ion Ratio Lower Upper
43 100
58 34.8 28.8 43.2
100 0.0 10.3 15.5#



#42
Toluene
Concen: 0.198 ug/L
RT: 7.97 min Scan# 2063
Delta R.T. 0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

Tgt Ion: 91 Resp: 14041
Ion Ratio Lower Upper
91 100
92 57.9 41.0 76.2





#44

trans-1,3-Dichloropropene

Concen: 0.208 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

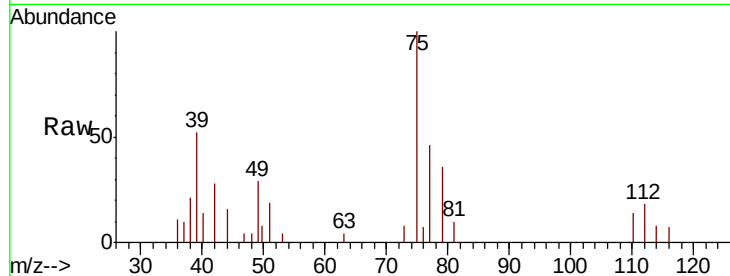
MDL-WATER-02

Tot Ion: 75 Resp: 5114

Ion Ratio Lower Upper

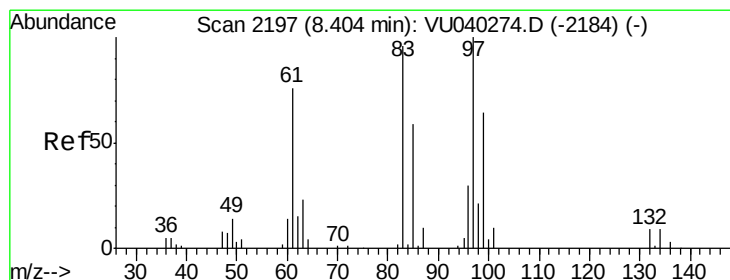
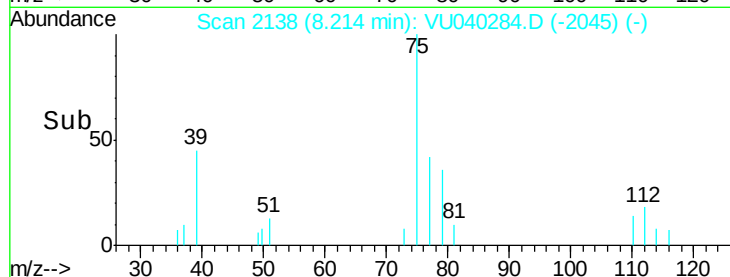
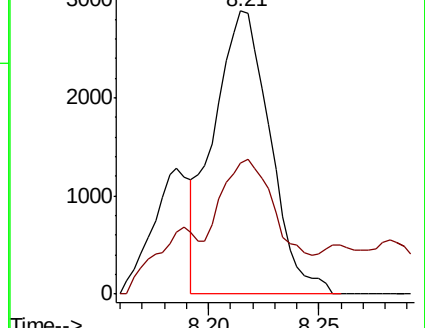
75 100

77 46.3 21.6 40.2#



Abundance Ion 75.05 (74.75 to 75.75): VU040274.D (-2119) (-)

Ion 77.05 (76.75 to 77.75): VU040274.D (-2119) (-)



#45

1,1,2-Trichloroethane

Concen: 0.198 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Tgt Ion: 97 Resp: 2627

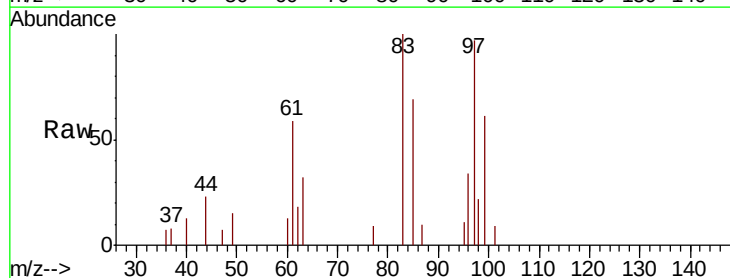
Ion Ratio Lower Upper

97 100

99 63.3 44.9 83.3

83 103.3 67.3 124.9

85 71.8 41.5 77.1

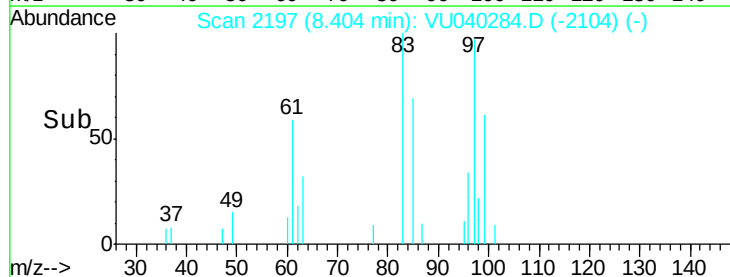
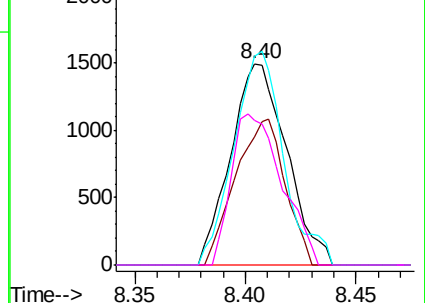


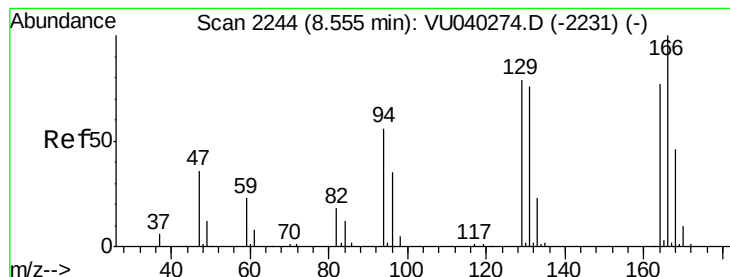
Abundance Ion 96.95 (96.65 to 97.65): VU040274.D (-2184) (-)

Ion 99.05 (98.75 to 99.75): VU040274.D (-2184) (-)

Ion 82.95 (82.65 to 83.65): VU040274.D (-2184) (-)

Ion 85.00 (84.70 to 85.70): VU040274.D (-2184) (-)





#47

Tetrachloroethene

Concen: 0.179 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

Tot Ion:164 Resp: 2355

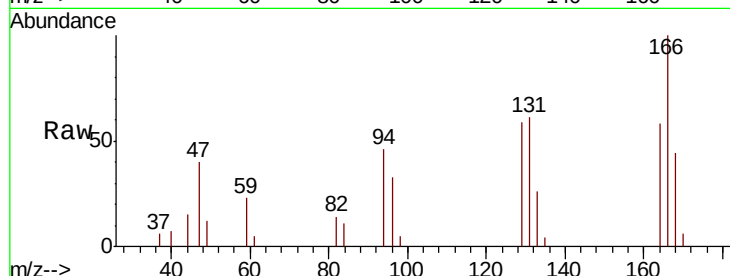
Ion Ratio Lower Upper

164 100

129 102.4 71.5 132.7

131 105.4 69.1 128.3

166 172.9 90.9 168.9#

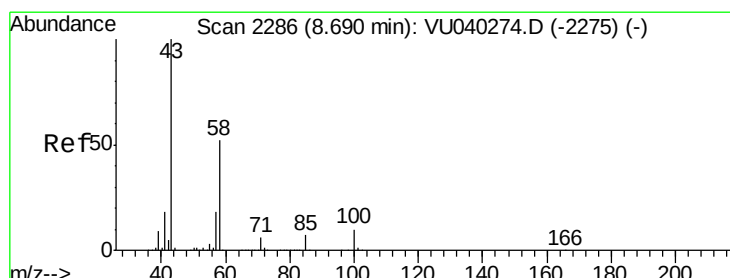
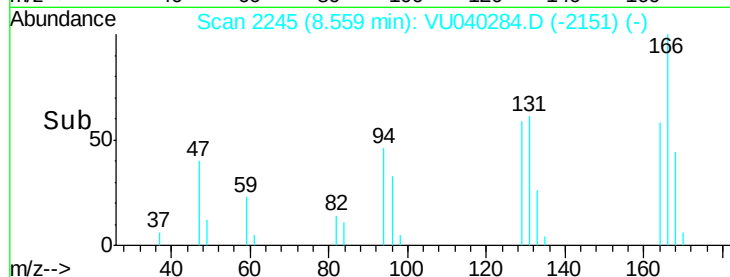
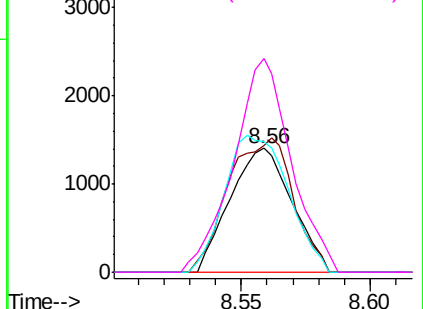


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.501 ug/L

RT: 8.69 min Scan# 2287

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Tgt Ion: 43 Resp: 27272

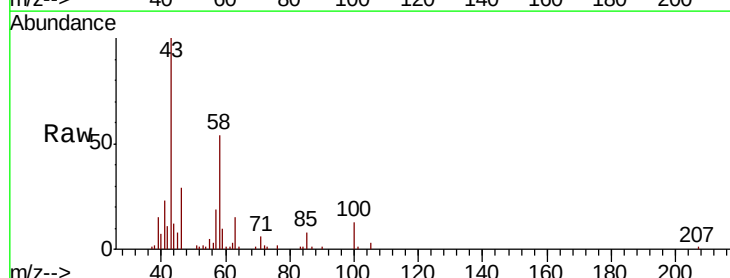
Ion Ratio Lower Upper

43 100

58 47.3 39.9 59.9

57 20.8 13.8 20.8#

100 10.9 7.9 11.9

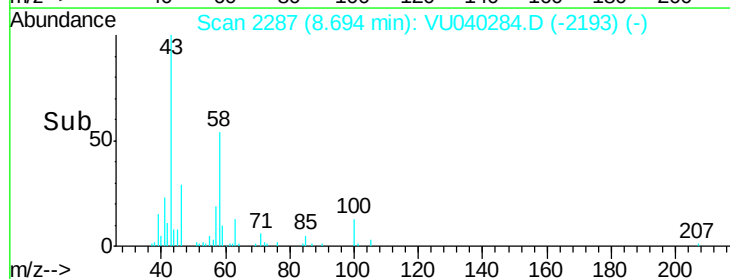
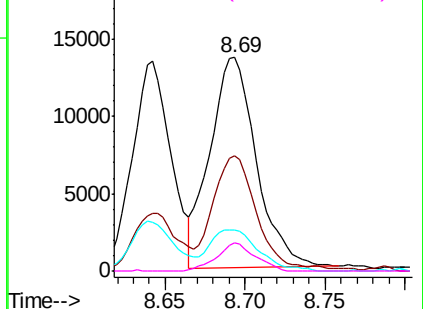


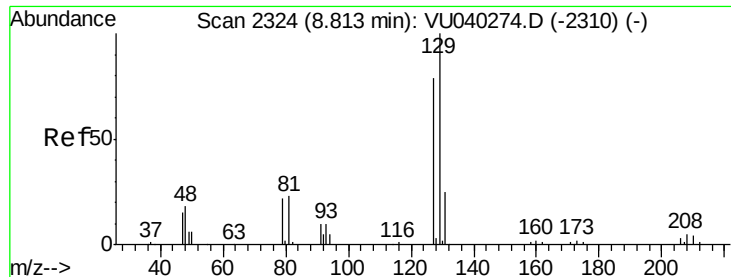
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.203 ug/L

RT: 8.81 min Scan# 2324

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

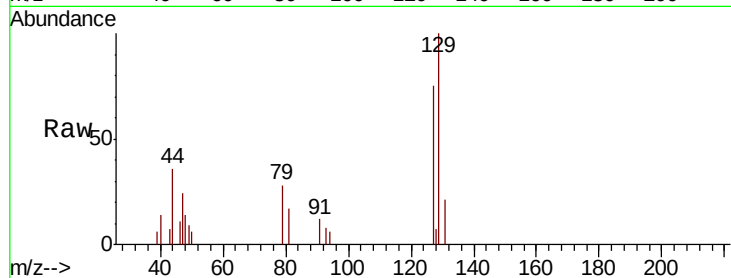
MDL-WATER-02

Tot Ion:129 Resp: 3106

Ion Ratio Lower Upper

129 100

127 75.3 55.0 102.2



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.81

1500

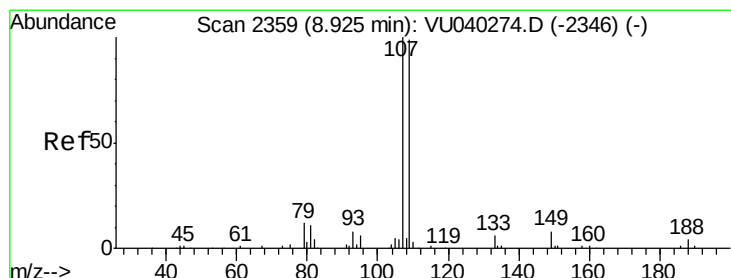
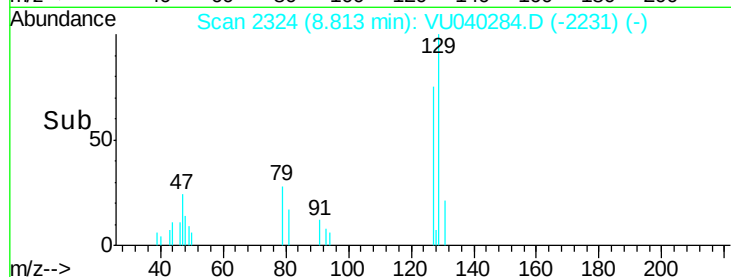
1000

500

0

8.80 8.85

Time-->



#50

1,2-Dibromoethane

Concen: 0.207 ug/L

RT: 8.93 min Scan# 2360

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

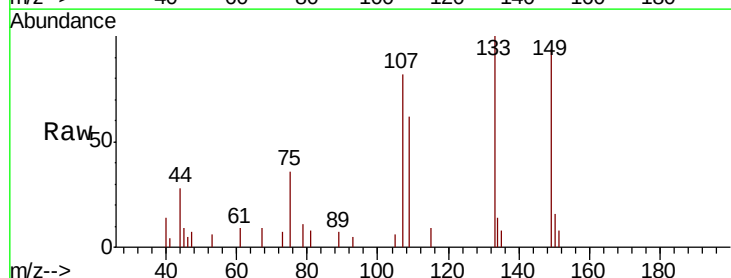
Tgt Ion:107 Resp: 2666

Ion Ratio Lower Upper

107 100

109 76.5 69.4 129.0

188 0.0 2.9 4.3#



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

2500

2000

1500

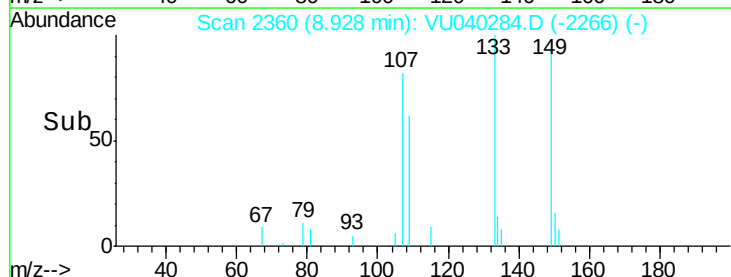
1000

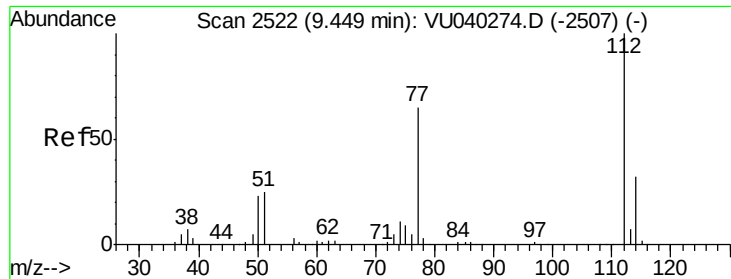
500

0

8.90 8.95

Time-->

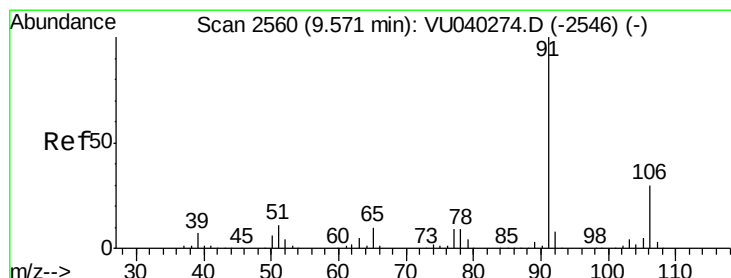
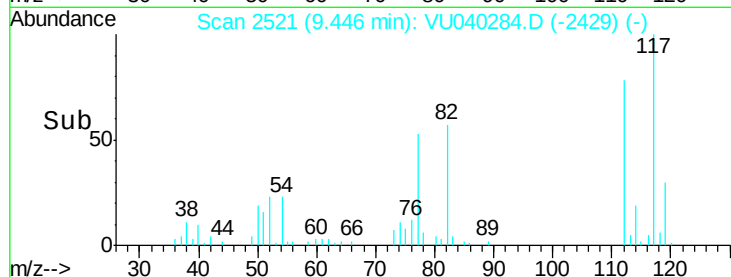
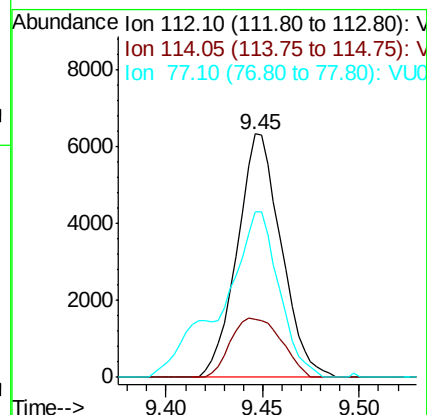
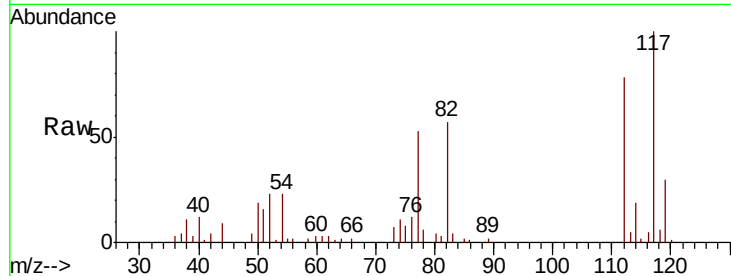




#51
Chlorobenzene
Concen: 0.219 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

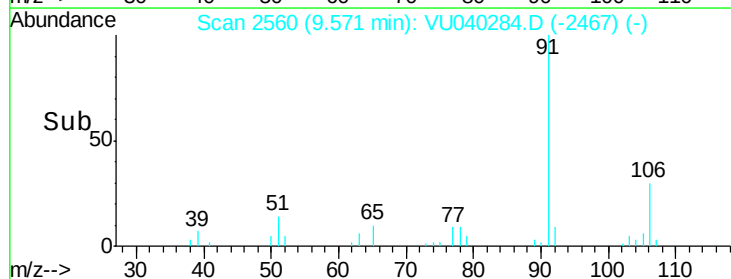
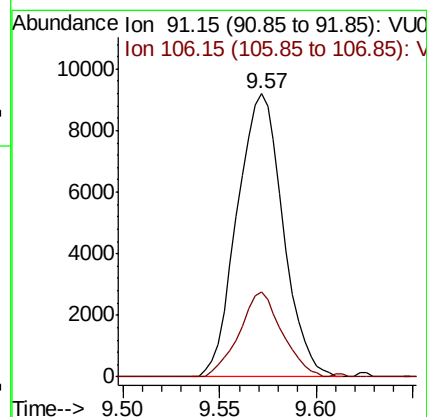
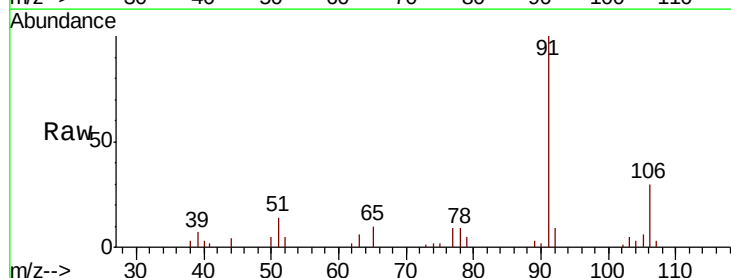
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

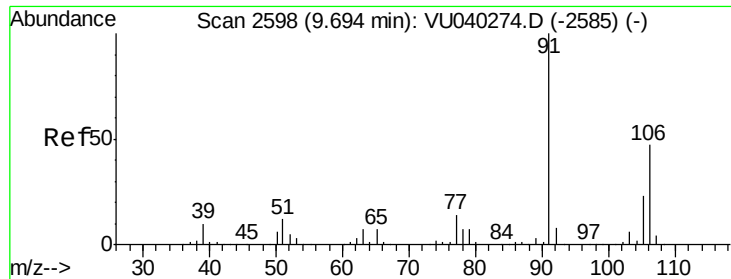
Tot Ion:112 Resp: 9997
Ion Ratio Lower Upper
112 100
114 23.8 22.7 42.3
77 68.0 52.0 78.0



#52
Ethylbenzene
Concen: 0.193 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040284.D
Acq: 24 Sep 2020 20:53

Tgt Ion: 91 Resp: 15167
Ion Ratio Lower Upper
91 100
106 29.8 20.6 38.4





#53

m,p-Xylene

Concen: 0.213 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

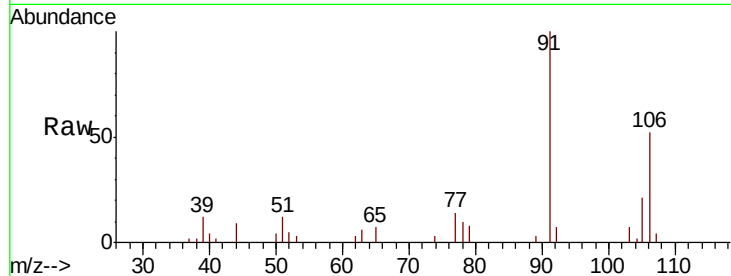
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

Tot Ion:106 Resp: 6013

Ion Ratio Lower Upper

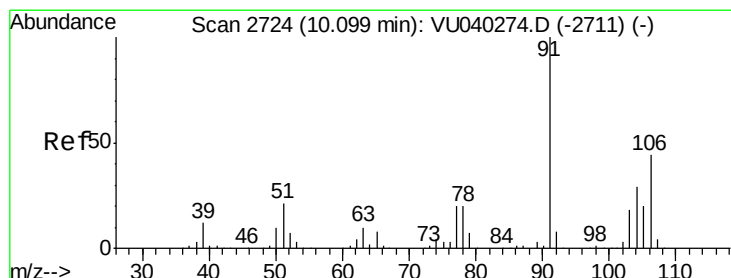
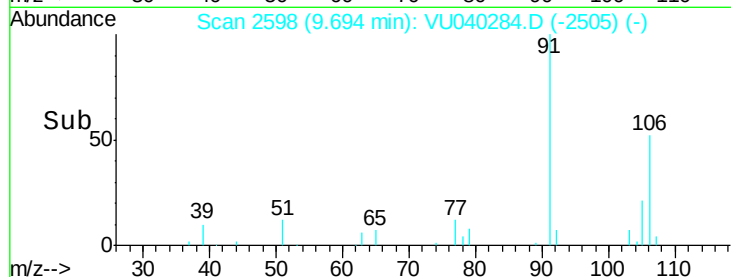
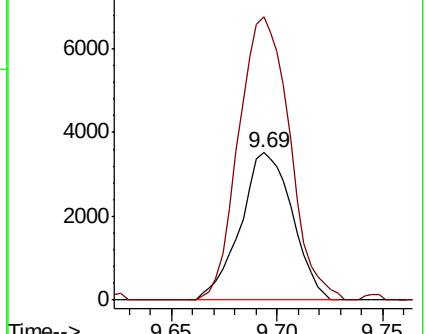
106 100

91 192.1 150.4 279.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.189 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. 0.00 min

Lab File: VU040284.D

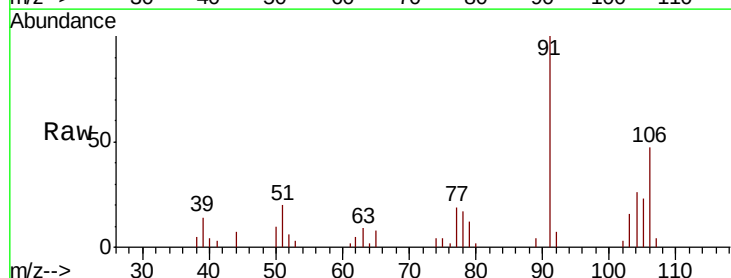
Acq: 24 Sep 2020 20:53

Tgt Ion:106 Resp: 5148

Ion Ratio Lower Upper

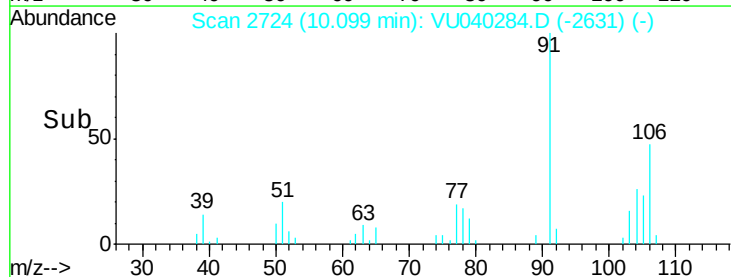
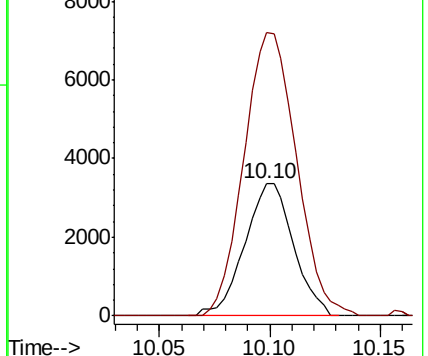
106 100

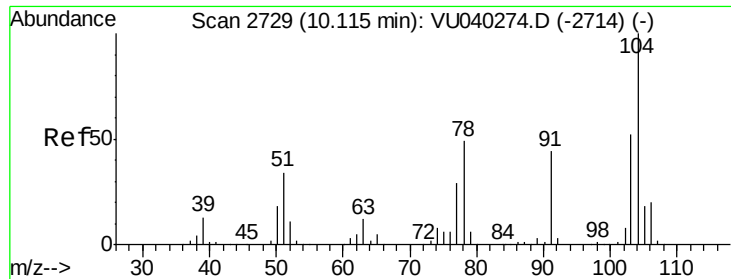
91 214.2 160.5 298.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#55

Stvrene

Concen: 0.172 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

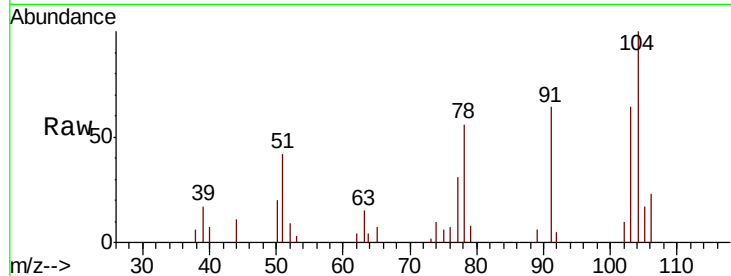
MDL-WATER-02

Tot Ion:104 Resp: 8095

Ion Ratio Lower Upper

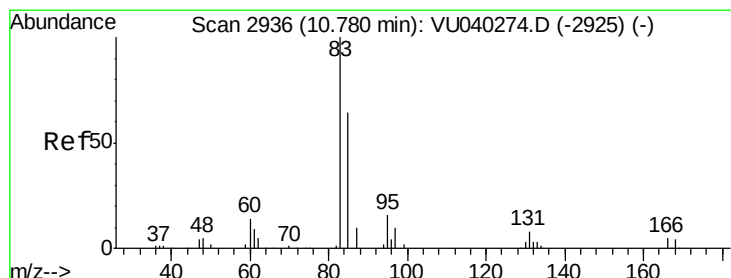
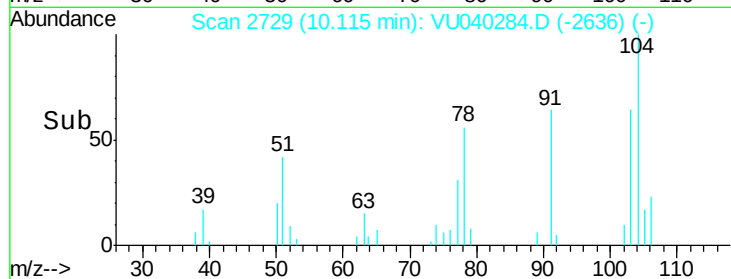
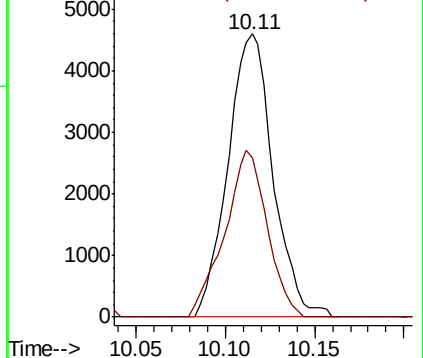
104 100

78 56.4 34.6 64.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



#57

1,1,2,2-Tetrachloroethane

Concen: 0.223 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

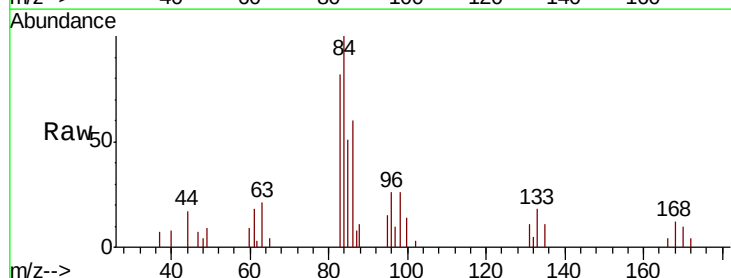
Tgt Ion: 83 Resp: 3914

Ion Ratio Lower Upper

83 100

85 62.1 45.5 84.5

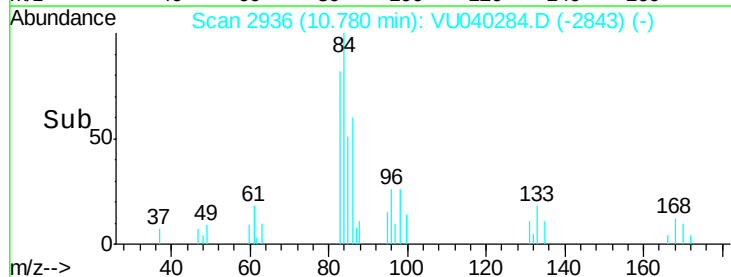
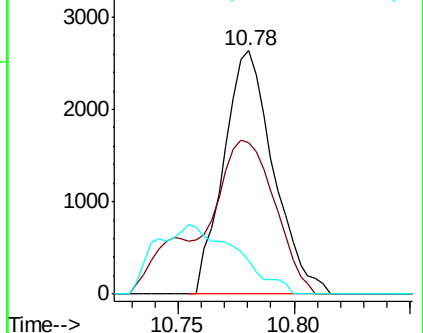
131 13.7 7.4 11.2#

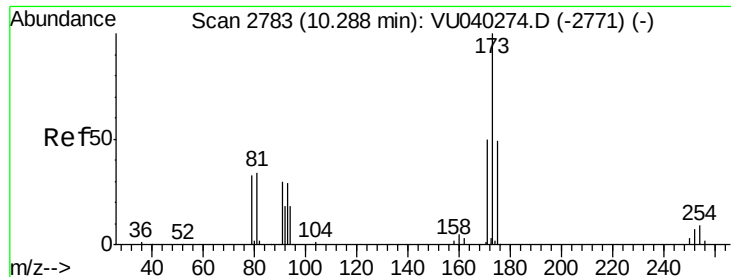


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

Bromoform

Concen: 0.190 ug/L

RT: 10.29 min Scan# 2785

Delta R.T. 0.01 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

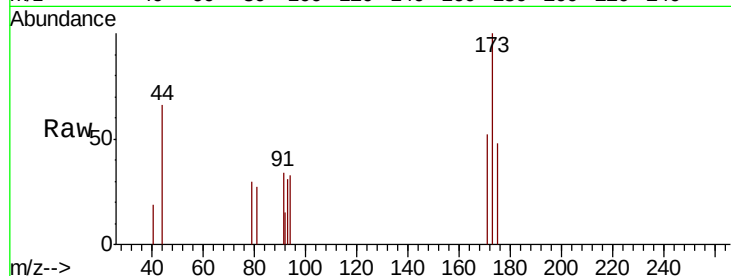
Tot Ion:173 Resp: 1460

Ion Ratio Lower Upper

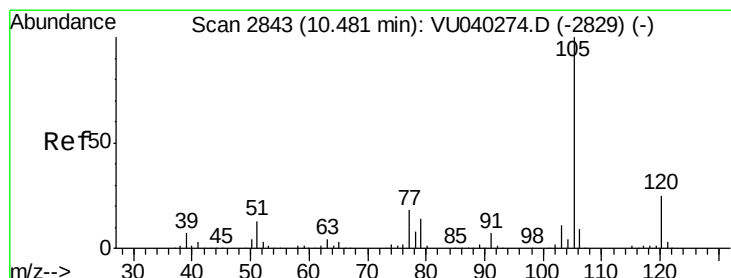
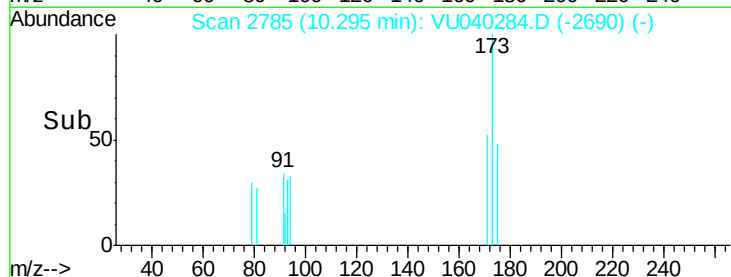
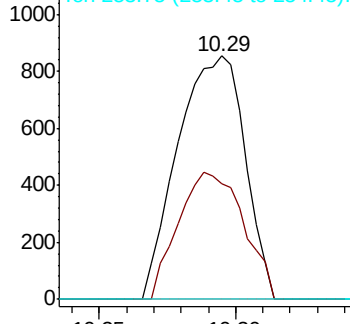
173 100

175 50.8 39.0 58.6

254 0.0 7.1 10.7#



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: 0.189 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

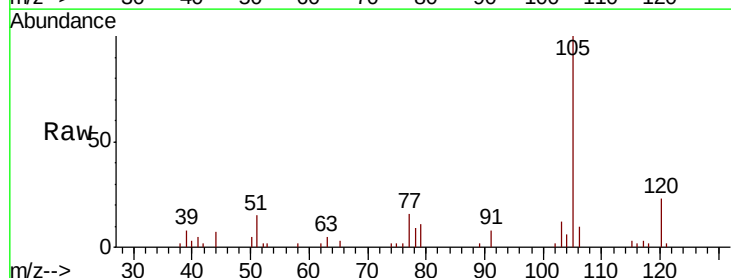
Tgt Ion:105 Resp: 12523

Ion Ratio Lower Upper

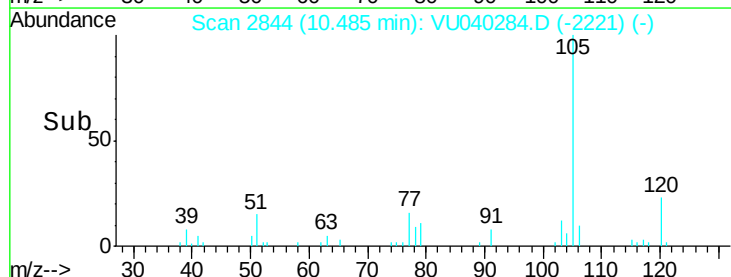
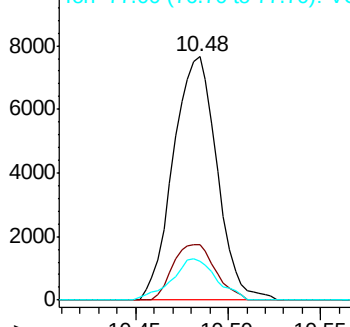
105 100

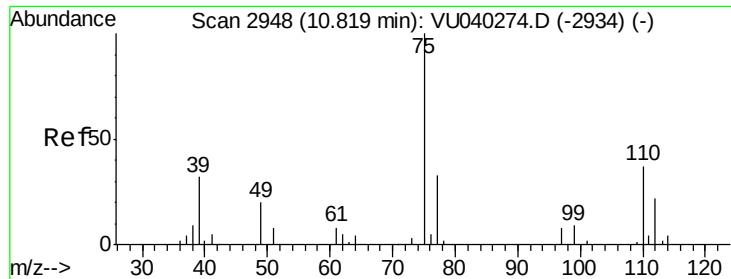
120 22.2 20.6 31.0

77 17.3 14.2 21.2



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

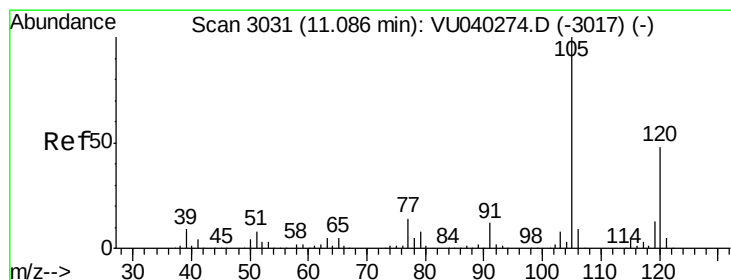
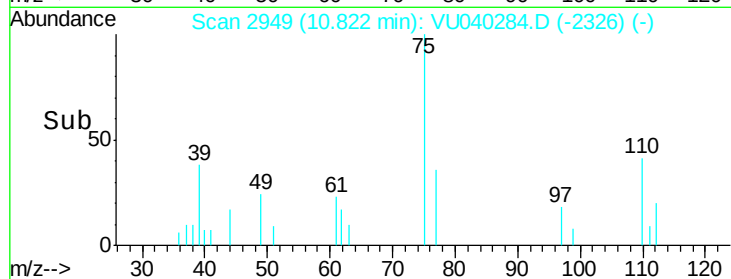
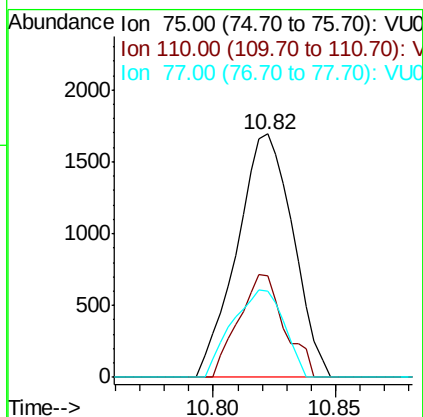
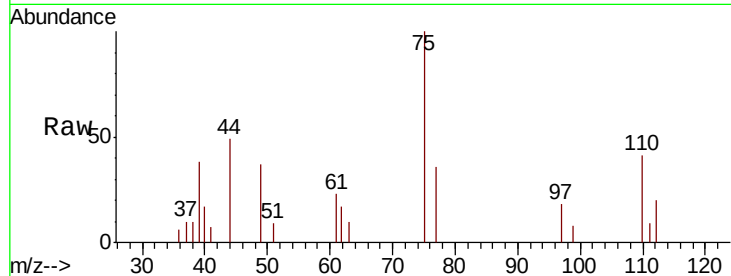




#61
 1,2,3-Trichloropropane
 Concen: 0.220 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

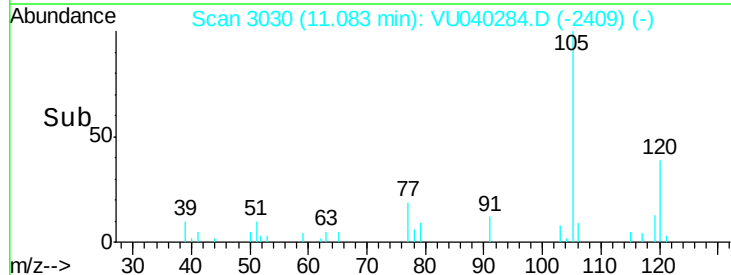
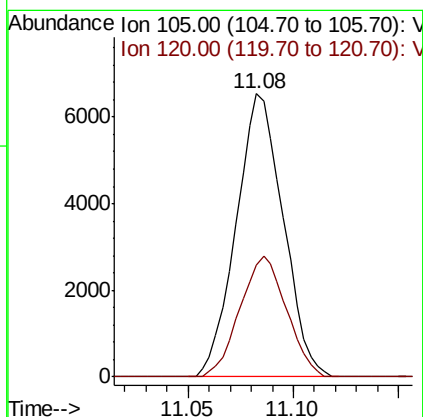
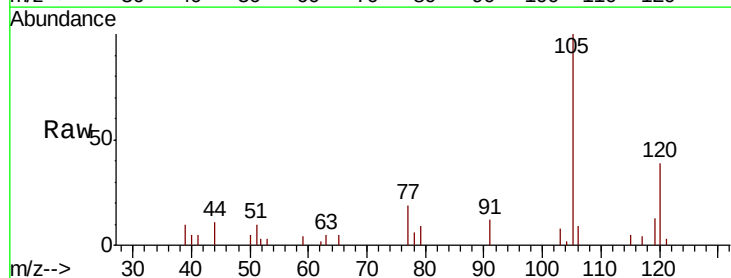
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

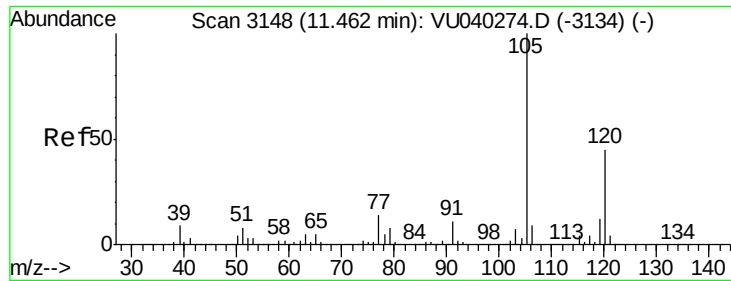
Tot Ion: 75 Resp: 2697
 Ion Ratio Lower Upper
 75 100
 110 34.4 29.3 43.9
 77 33.2 25.9 38.9



#62
 1,3,5-Trimethylbenzene
 Concen: 0.189 ug/L
 RT: 11.08 min Scan# 3030
 Delta R.T. -0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

Tgt Ion: 105 Resp: 10105
 Ion Ratio Lower Upper
 105 100
 120 42.1 37.8 56.8

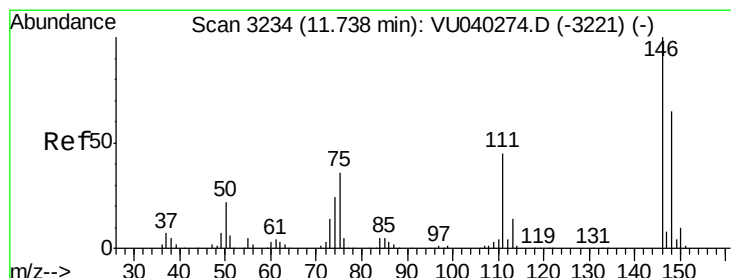
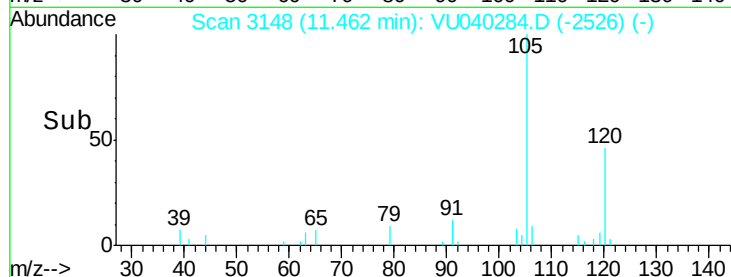
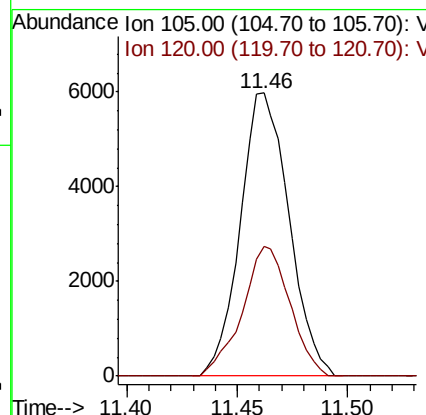
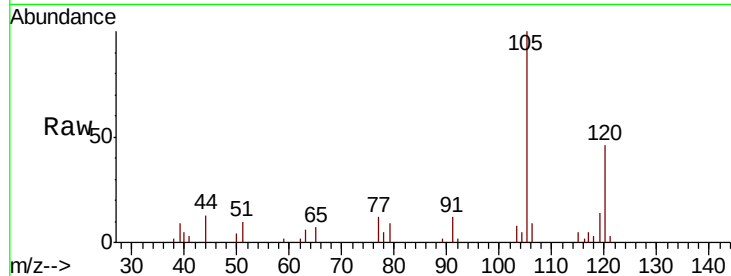




#63
 1,2,4-Trimethylbenzene
 Concen: 0.170 ug/L
 RT: 11.46 min Scan# 3148
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

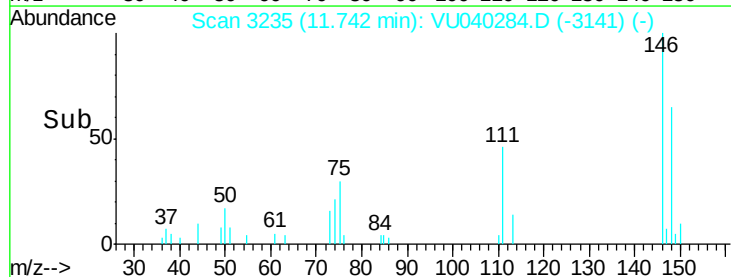
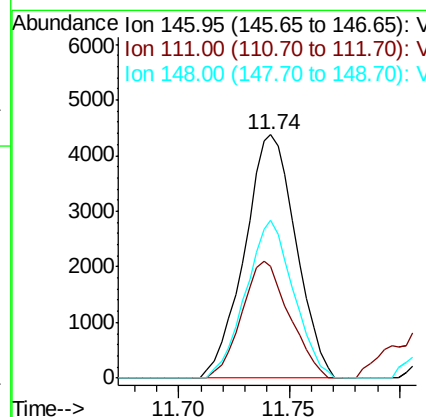
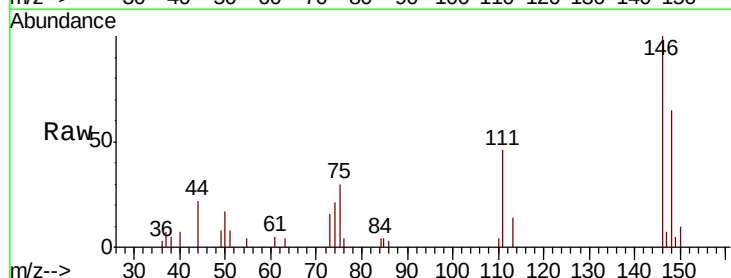
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

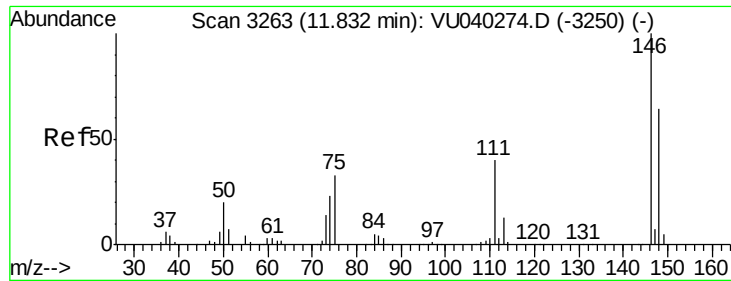
Tot Ion:105 Resp: 9202
 Ion Ratio Lower Upper
 105 100
 120 44.8 36.0 54.0



#64
 1,3-Dichlorobenzene
 Concen: 0.216 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

Tgt Ion:146 Resp: 7069
 Ion Ratio Lower Upper
 146 100
 111 45.8 31.6 58.8
 148 64.7 45.1 83.9





#65

1,4-Dichlorobenzene

Concen: 0.209 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

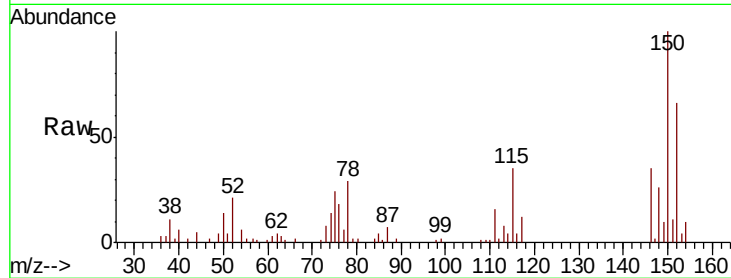
Tot Ion:146 Resp: 7052

Ion Ratio Lower Upper

146 100

111 46.5 28.2 52.4

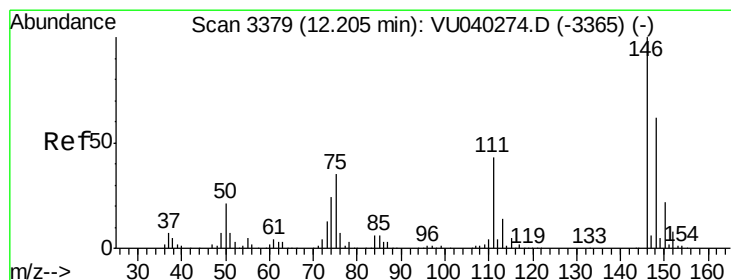
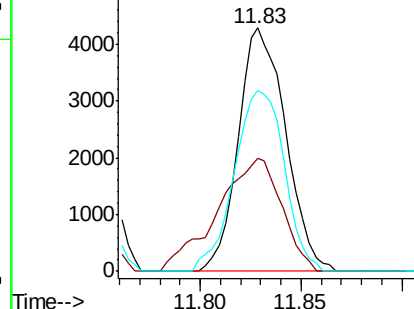
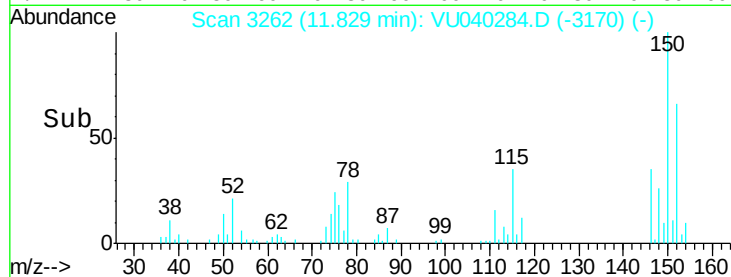
148 74.1 45.2 84.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,2-Dichlorobenzene

Concen: 0.226 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

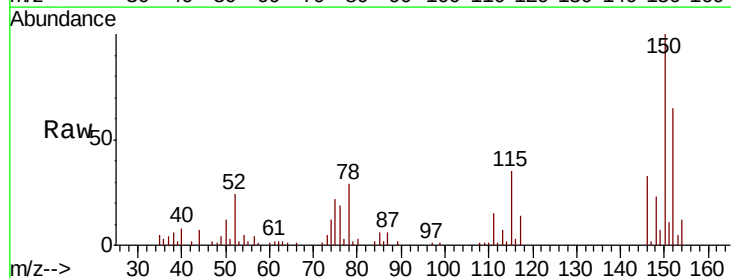
Tgt Ion:146 Resp: 7028

Ion Ratio Lower Upper

146 100

111 46.8 34.2 51.4

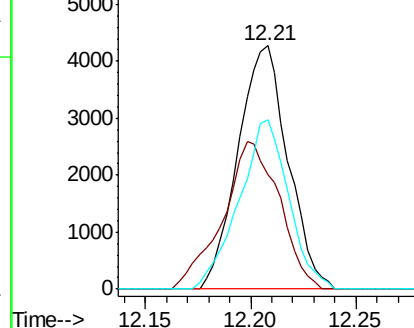
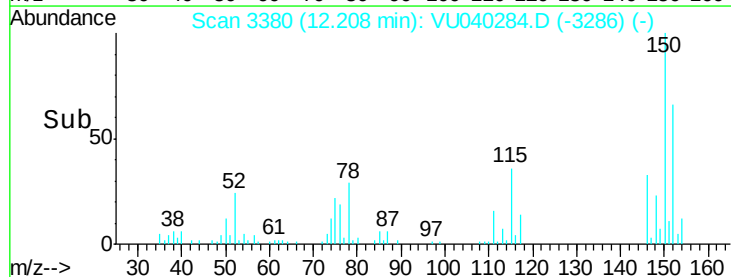
148 69.8 49.4 74.2

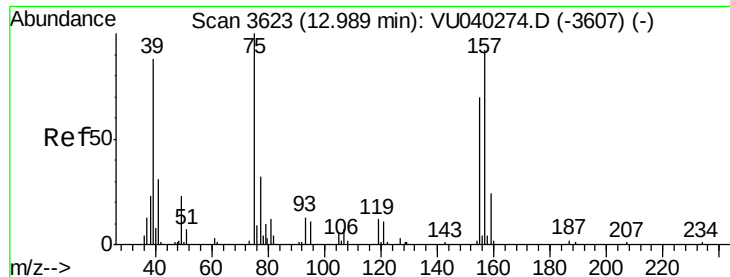


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#68

1,2-Dibromo-3-chloropropane

Concen: 0.232 ug/L

RT: 12.99 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

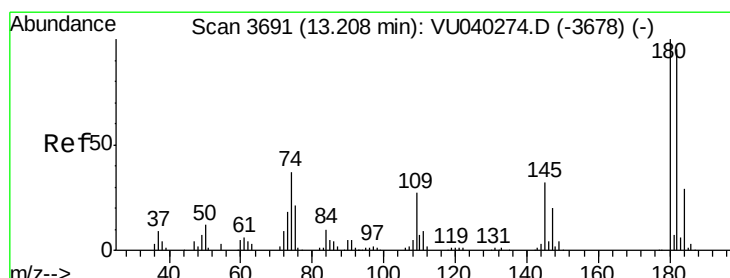
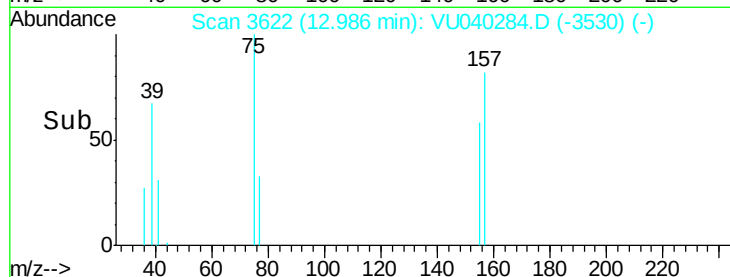
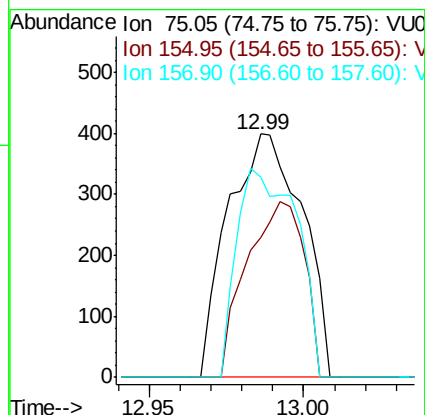
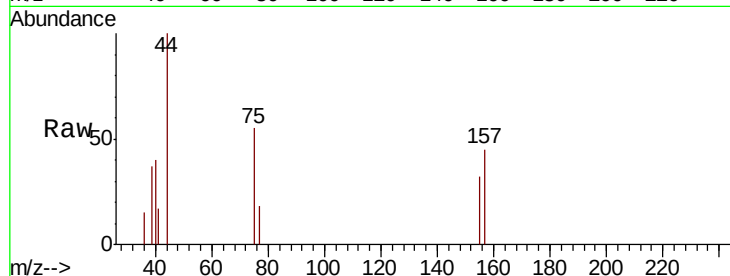
Tot Ion: 75 Resp: 667

Ion Ratio Lower Upper

75 100

155 57.6 56.3 84.5

157 82.5 73.5 110.3



#69

1,3,5-Trichlorobenzene

Concen: 0.214 ug/L

RT: 13.21 min Scan# 3691

Delta R.T. 0.00 min

Lab File: VU040284.D

Acq: 24 Sep 2020 20:53

Tgt Ion: 180 Resp: 4939

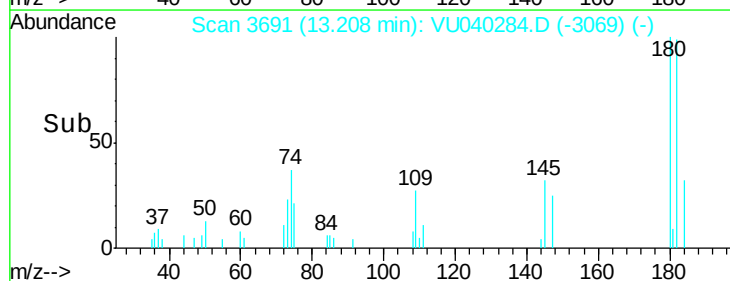
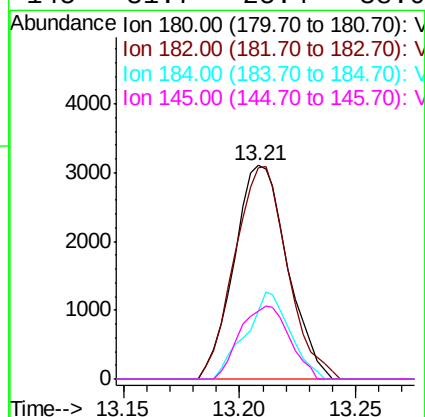
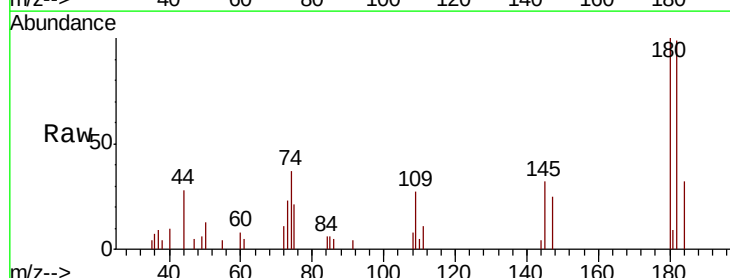
Ion Ratio Lower Upper

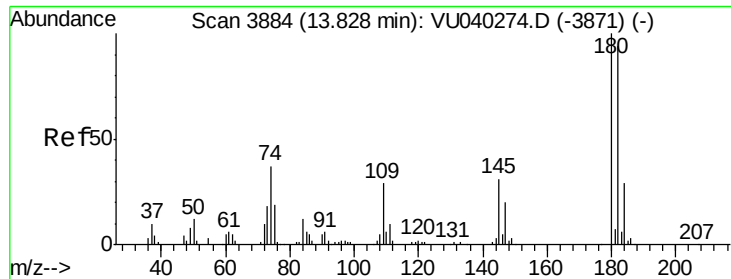
180 100

182 98.3 75.8 113.6

184 33.8 23.7 35.5

145 31.7 25.4 38.0

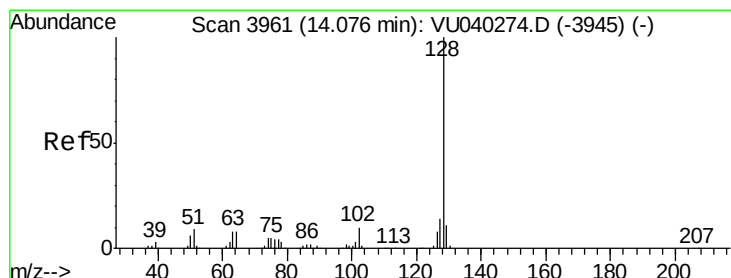
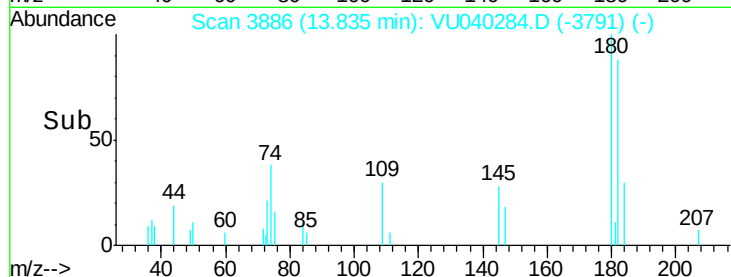
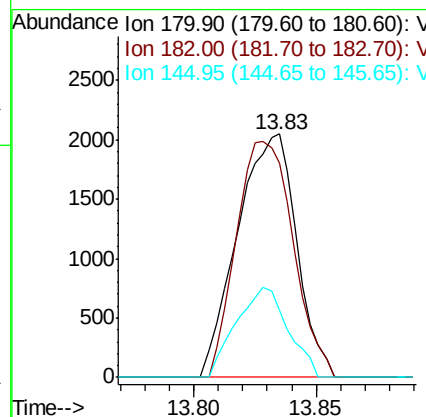
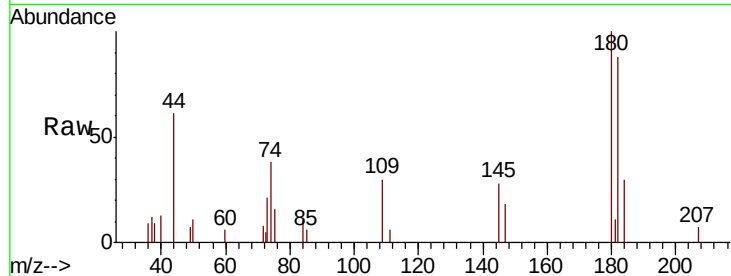




#70
 1,2,4-trichlorobenzene
 Concen: 0.184 ug/L
 RT: 13.83 min Scan# 3886
 Delta R.T. 0.01 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

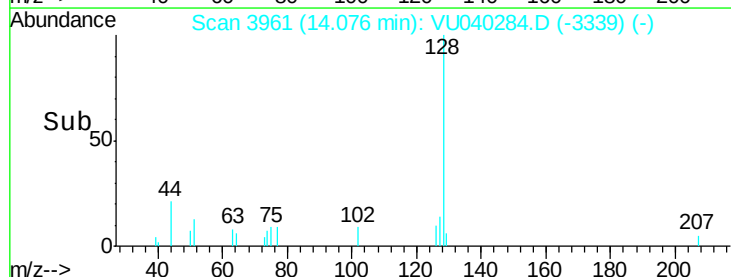
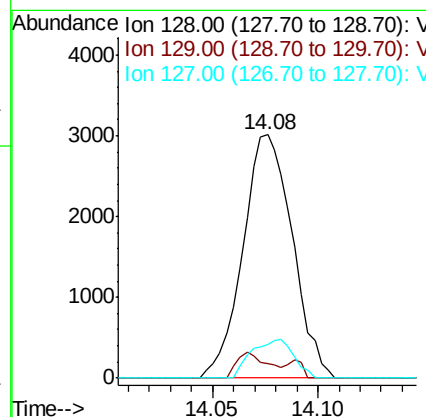
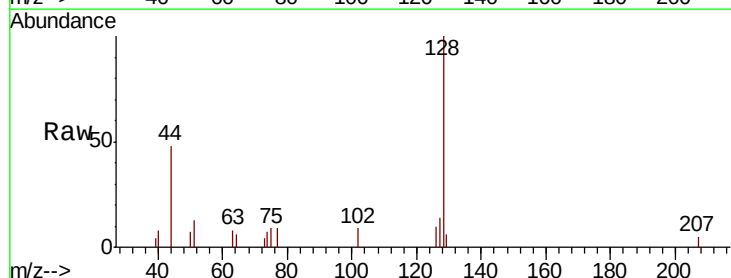
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

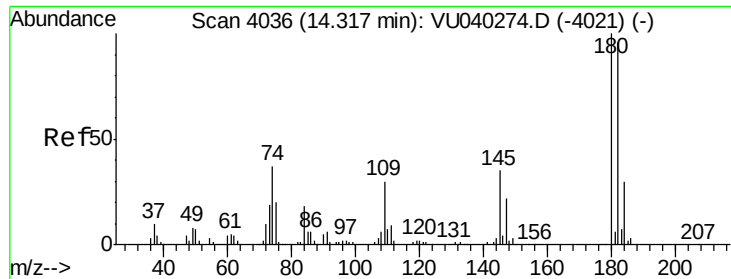
Tot Ion:180 Resp: 3432
 Ion Ratio Lower Upper
 180 100
 182 93.6 76.3 114.5
 145 32.6 25.9 38.9



#71
 Naphthalene
 Concen: 0.152 ug/L
 RT: 14.08 min Scan# 3961
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

Tgt Ion:128 Resp: 4905
 Ion Ratio Lower Upper
 128 100
 129 2.3 8.4 12.6#
 127 13.6 10.6 15.8





#72
 1,2,3-Trichlorobenzene
 Concen: 0.191 ug/L
 RT: 14.32 min Scan# 4036
 Delta R.T. 0.00 min
 Lab File: VU040284.D
 Acq: 24 Sep 2020 20:53

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

Tot Ion:	180	Resp:	3182
Ion	Ratio	Lower	Upper
180	100		
182	89.8	78.0	117.0
145	33.6	28.6	42.8

