

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX013000.D
 Acq On : 10 Oct 2019 16:53
 Operator : JC/SP
 Sample : K5111-07 0.2PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Quant Time: Oct 11 04:38:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	161472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	277540	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	242784	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100374	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	107088	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	
35) Dibromofluoromethane	5.49	113	79931	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
50) Toluene-d8	8.71	98	304142	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
62) 4-Bromofluorobenzene	11.14	95	106852	44.26	ug/l	0.00
Spiked Amount			Recovery	=	88.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	341	0.207	ug/l	100
3) Chloromethane	1.32	50	550	0.307	ug/l	99
5) Bromomethane	1.64	94	448	0.583	ug/l #	66
6) Chloroethane	1.73	64	3573	3.508	ug/l #	60
7) Trichlorofluoromethane	1.93	101	557	0.223	ug/l	100
8) Diethyl Ether	2.18	74	266	0.264	ug/l #	47
10) Methyl Iodide	2.50	142	187	5.173	ug/l #	73
11) Tert butyl alcohol	3.01	59	2809	5.250	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	417	0.256	ug/l #	37
13) Acrolein	2.28	56	325	0.855	ug/l #	77
14) Allyl chloride	2.73	41	618	0.213	ug/l	95
15) Acrylonitrile	3.13	53	904	0.892	ug/l	95
16) Acetone	2.44	43	1362	1.280	ug/l #	83
17) Carbon Disulfide	2.57	76	1023	0.220	ug/l #	75
18) Methyl Acetate	2.76	43	739	0.293	ug/l #	73
19) Methyl tert-butyl Ether	3.19	73	1247	0.221	ug/l #	76
20) Methylene Chloride	2.85	84	884	0.452	ug/l #	69
21) trans-1,2-Dichloroethene	3.16	96	614	0.351	ug/l	94
23) Vinyl Acetate	3.81	43	3492	0.726	ug/l #	86
25) 2-Butanone	4.67	43	1540	1.043	ug/l #	77
27) cis-1,2-Dichloroethene	4.58	96	437	0.217	ug/l	49
28) Bromochloromethane	5.00	49	157	Below Cal	#	13
29) Tetrahydrofuran	5.13	42	557	0.613	ug/l #	76
30) Chloroform	5.21	83	951	0.296	ug/l #	77
31) Cyclohexane	5.56	56	783	0.267	ug/l #	55
38) Carbon Tetrachloride	5.65	117	16596	6.988	ug/l #	18
39) Methylcyclohexane	7.45	83	774	0.262	ug/l #	72
40) Benzene	6.14	78	1602	0.222	ug/l #	85
42) 1,2-Dichloroethane	6.19	62	605	0.234	ug/l #	73
44) Trichloroethene	7.22	130	460	0.230	ug/l	78
45) 1,2-Dichloropropane	7.51	63	408	0.222	ug/l #	44
49) 1,4-Dioxane	7.76	88	40	35.758	ug/l #	70
51) 4-Methyl-2-Pentanone	8.64	43	2673	0.979	ug/l	91
52) Toluene	8.78	92	986	0.214	ug/l	94

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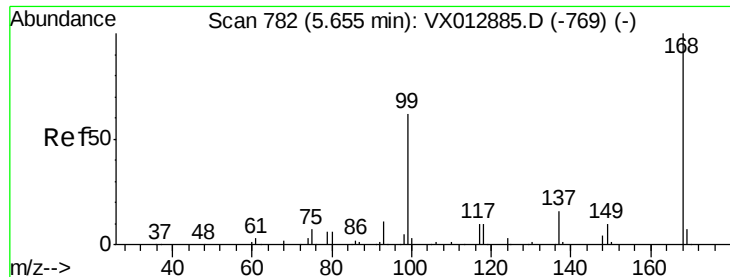
Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Quant Time: Oct 11 04:38:10 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

53) t-1,3-Dichloropropene	9.04	75	356	2.283	ug/l #	42
54) cis-1,3-Dichloropropene	8.43	75	604	0.206	ug/l	96
56) Ethyl methacrylate	9.18	69	483	1.974	ug/l #	86
58) 2-Chloroethyl Vinyl ether	8.31	63	996	0.743	ug/l #	81
59) 2-Hexanone	9.50	43	1692	0.796	ug/l	99
60) Dibromochloromethane	9.57	129	301	2.000	ug/l	94
64) Tetrachloroethene	9.33	164	465	0.276	ug/l #	77
65) Chlorobenzene	10.14	112	1054	0.219	ug/l #	80
67) Ethyl Benzene	10.25	91	1730	0.202	ug/l #	79
68) m/p-Xylenes	10.35	106	1241	0.388	ug/l	94
71) Bromoform	10.85	173	145	3.228	ug/l #	29
73) Isopropylbenzene	11.01	105	1632	0.221	ug/l	92
75) 1,1,2,2-Tetrachloroethane	11.26	83	553	0.225	ug/l #	92
76) 1,2,3-Trichloropropane	11.14	75	52602	23.628	ug/l #	33
77) Bromobenzene	11.26	156	472	0.271	ug/l	79
81) trans-1,4-Dichloro-2-buten	11.14	75	52602	59.879	ug/l #	10
90) Hexachloroethane	12.59	117	33	2.145	ug/l #	1
91) 1,2-Dichlorobenzene	12.39	146	704	0.222	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

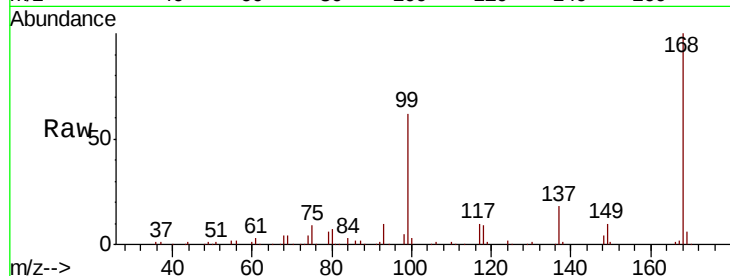
LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 161472

Ion Ratio Lower Upper

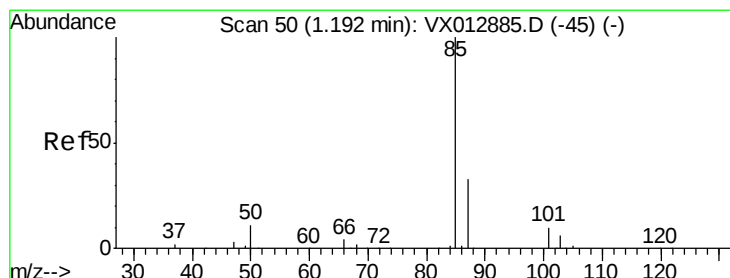
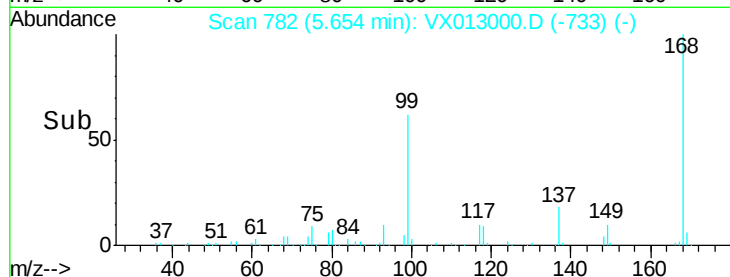
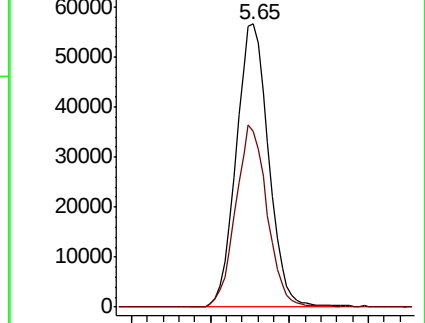
168 100

99 62.2 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.207 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013000.D

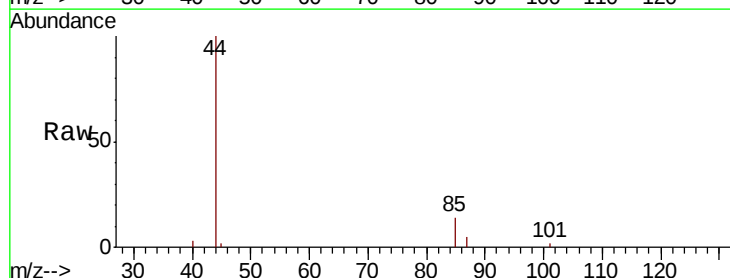
Acq: 10 Oct 2019 16:53

Tgt Ion: 85 Resp: 341

Ion Ratio Lower Upper

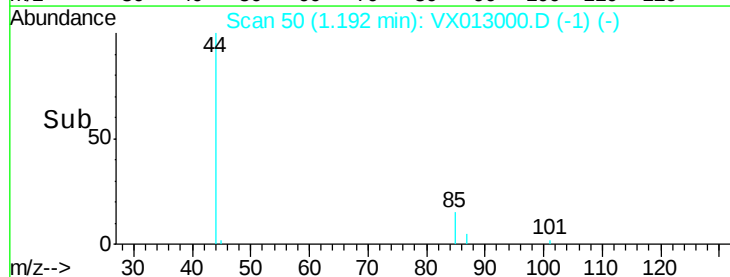
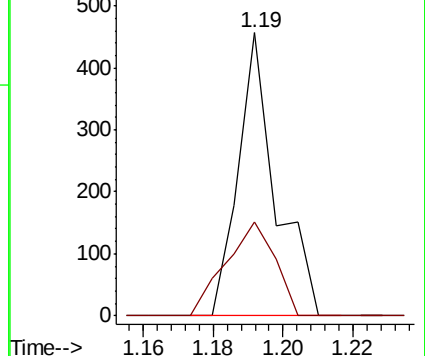
85 100

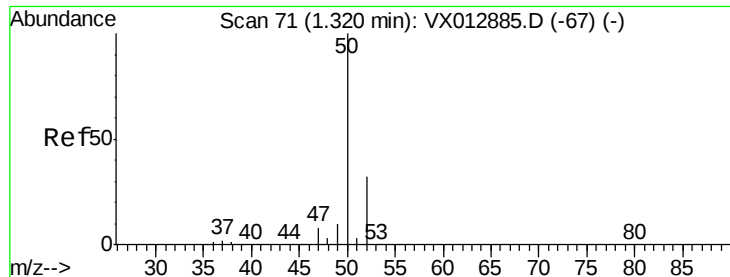
87 33.0 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.307 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

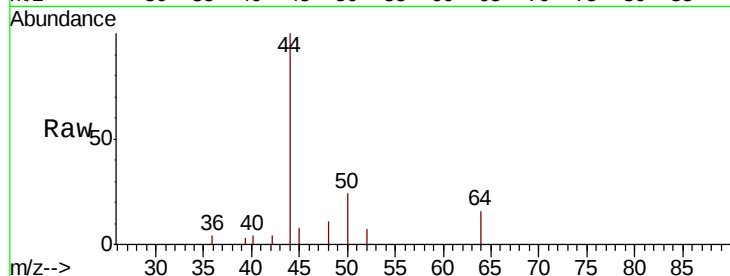
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 50 Resp: 550

Ion Ratio Lower Upper

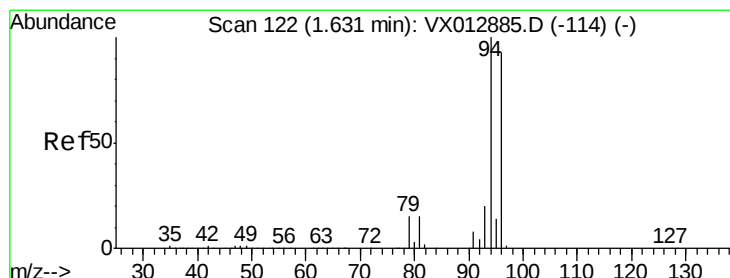
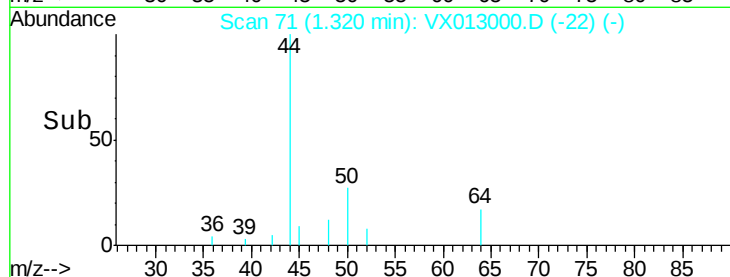
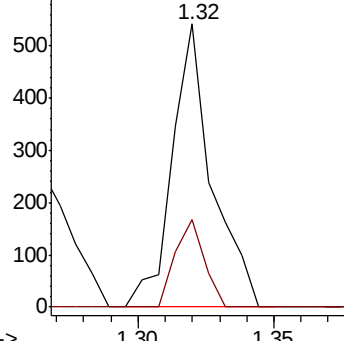
50 100

52 30.8 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.583 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013000.D

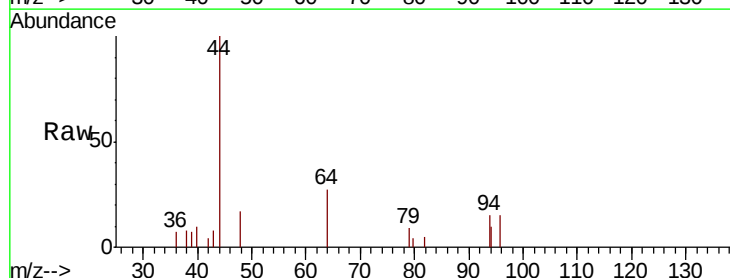
Acq: 10 Oct 2019 16:53

Tgt Ion: 94 Resp: 448

Ion Ratio Lower Upper

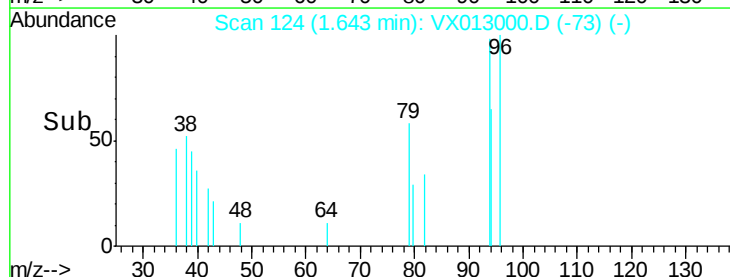
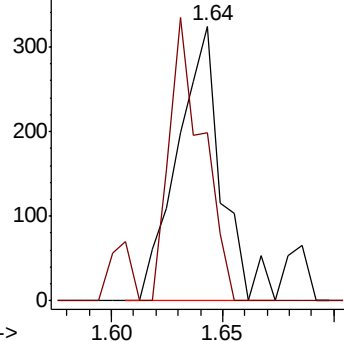
94 100

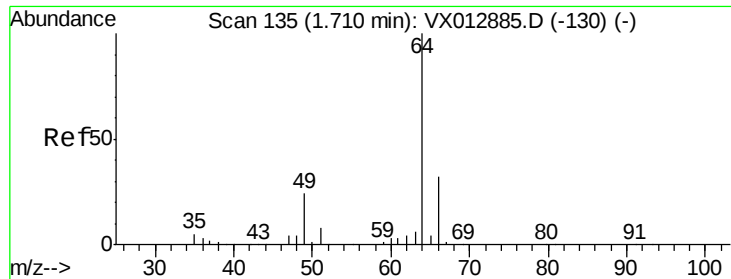
96 61.1 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 3.508 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

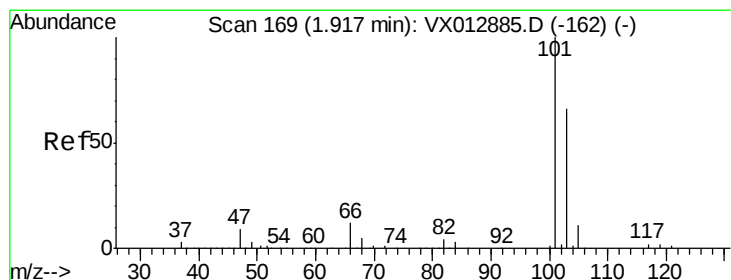
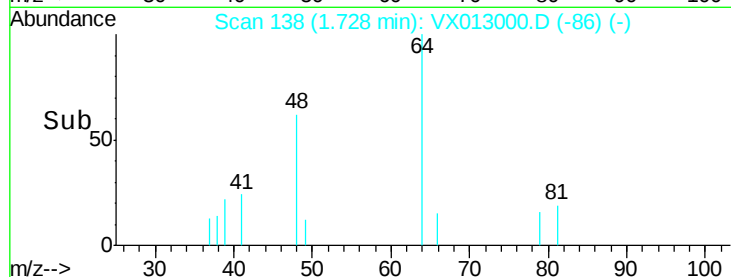
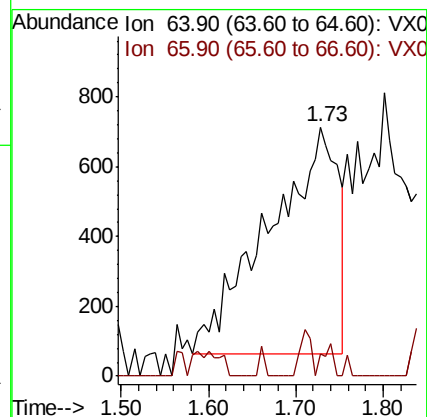
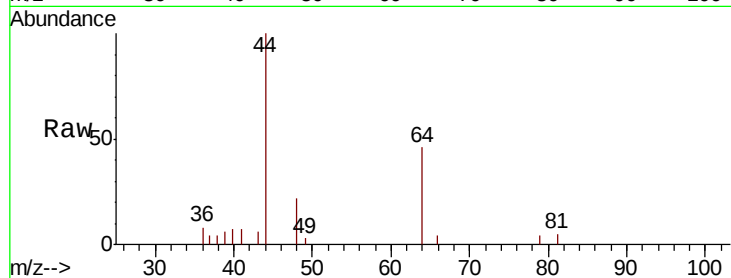
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 64 Resp: 3573

Ion Ratio Lower Upper

64 100

66 9.7 25.6 38.4#



#7

Trichlorofluoromethane

Concen: 0.223 ug/l

RT: 1.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX013000.D

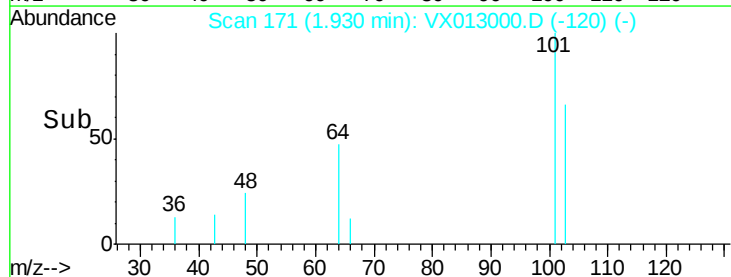
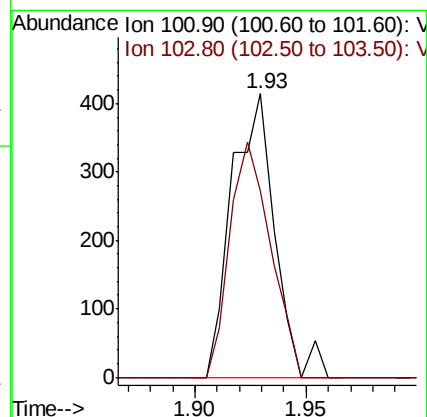
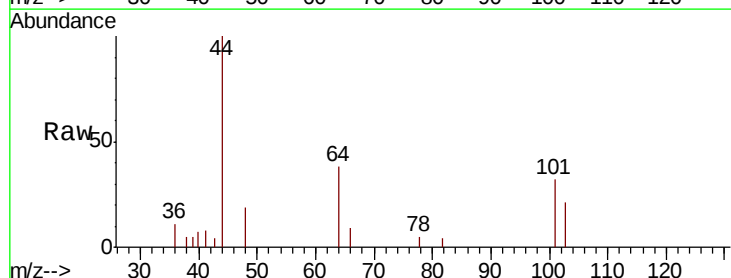
Acq: 10 Oct 2019 16:53

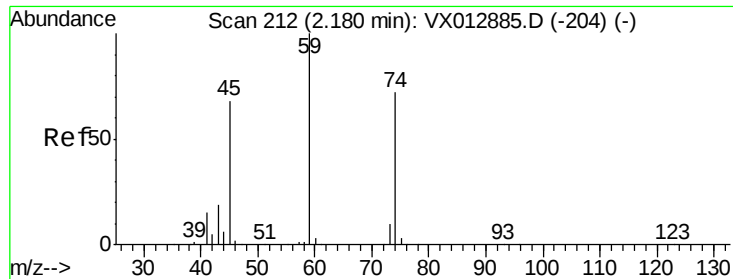
Tgt Ion: 101 Resp: 557

Ion Ratio Lower Upper

101 100

103 65.9 52.5 78.7





#8

Diethyl Ether

Concen: 0.264 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

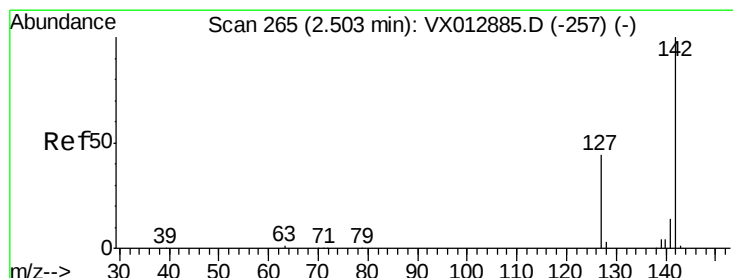
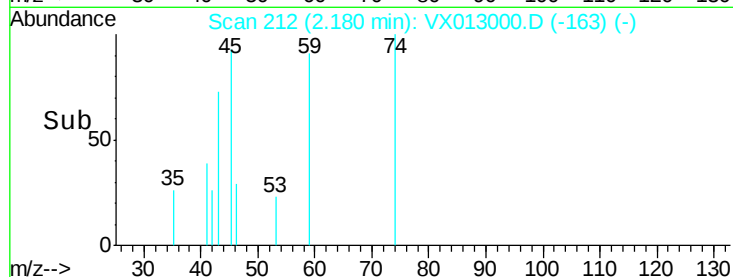
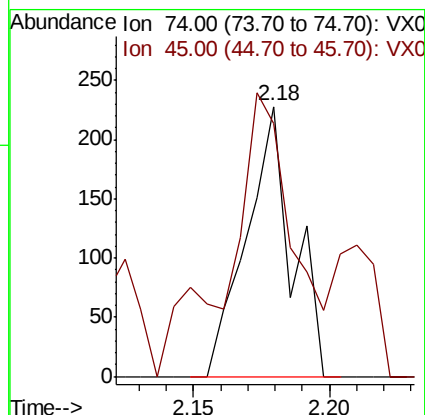
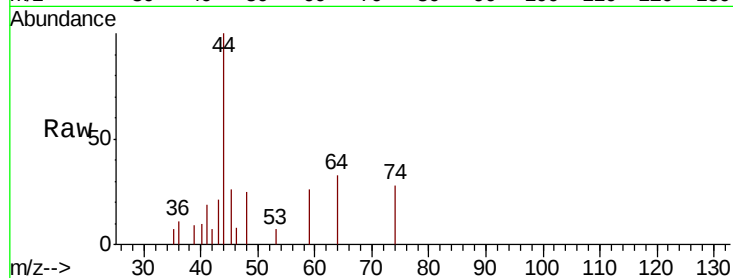
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 74 Resp: 266

Ion Ratio Lower Upper

74 100

45 147.7 47.8 143.4#



#10

Methyl Iodide

Concen: 5.173 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

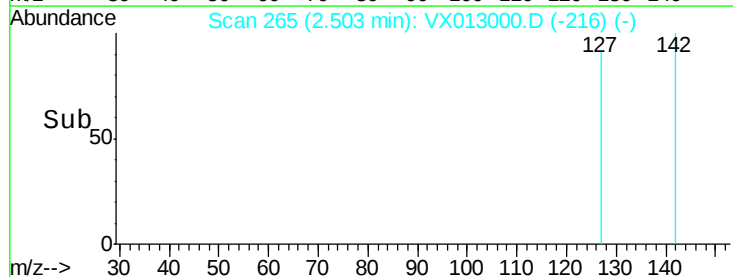
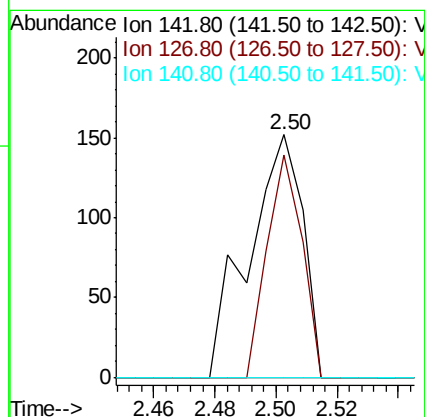
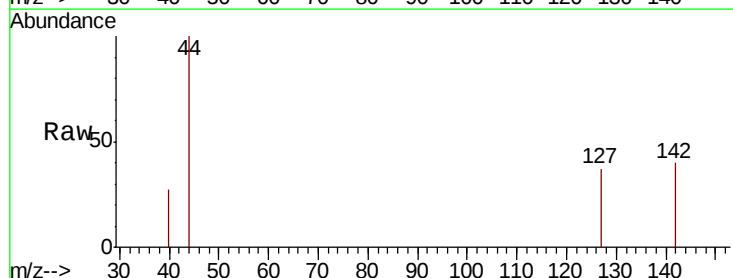
Tgt Ion: 142 Resp: 187

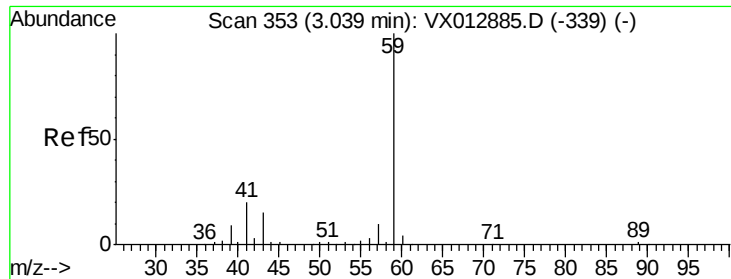
Ion Ratio Lower Upper

142 100

127 59.4 34.9 52.3#

141 0.0 11.6 17.4#



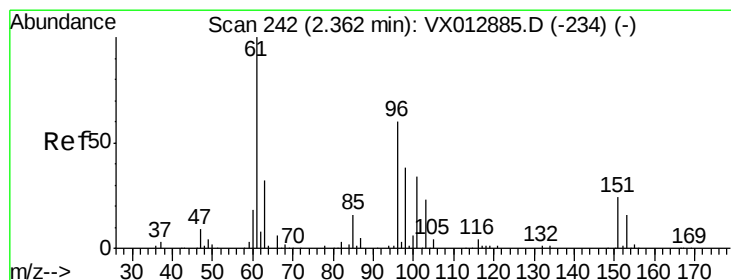
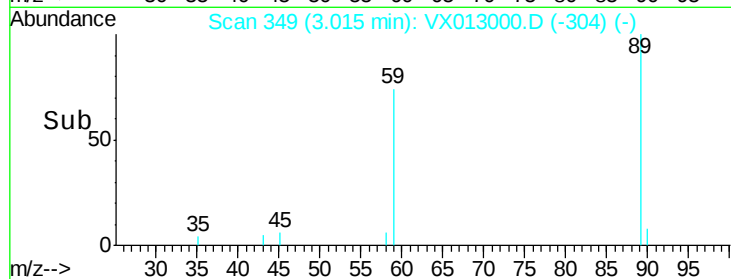
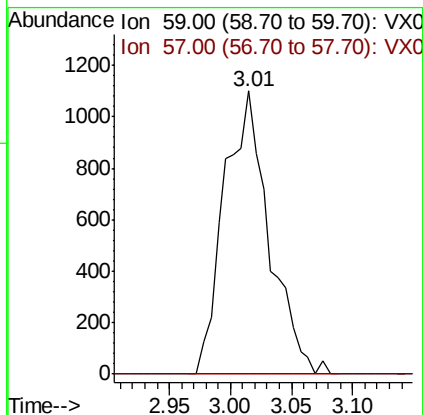
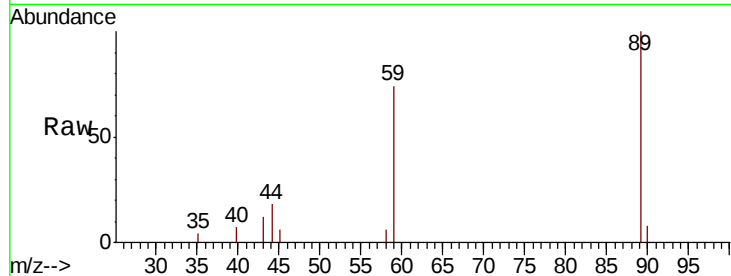


#11

Tert butyl alcohol
 Concen: 5.250 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

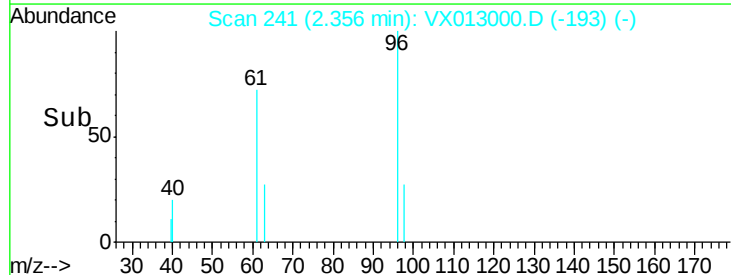
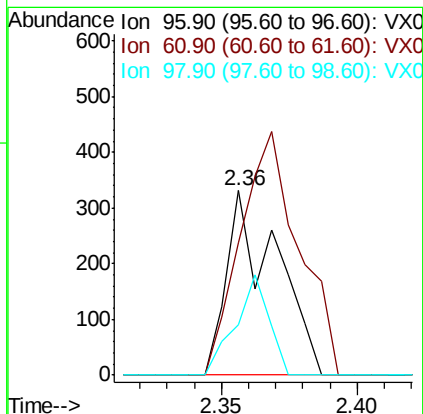
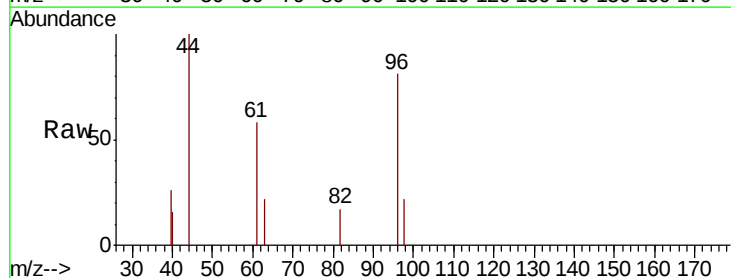
Tot Ion: 59 Resp: 2809
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

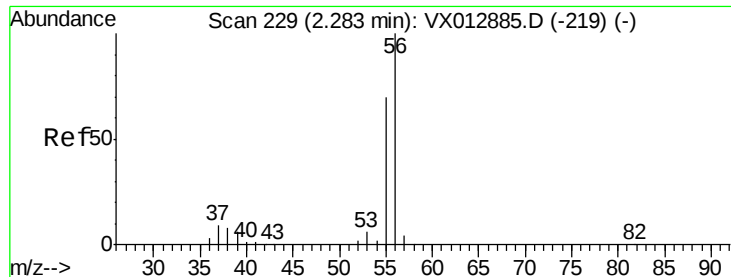


#12

1,1-Dichloroethene
 Concen: 0.256 ug/l
 RT: 2.36 min Scan# 241
 Delta R.T. -0.01 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

Tgt Ion: 96 Resp: 417
 Ion Ratio Lower Upper
 96 100
 61 71.6 132.2 198.4#
 98 27.2 50.5 75.7#





#13

Acrolein

Concen: 0.855 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

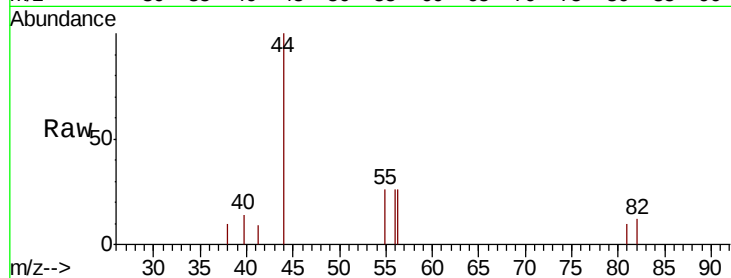
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 325

Ion Ratio Lower Upper

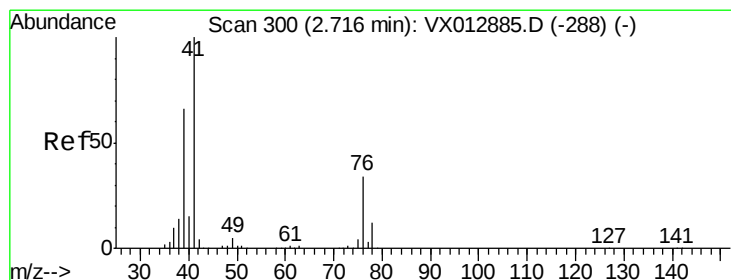
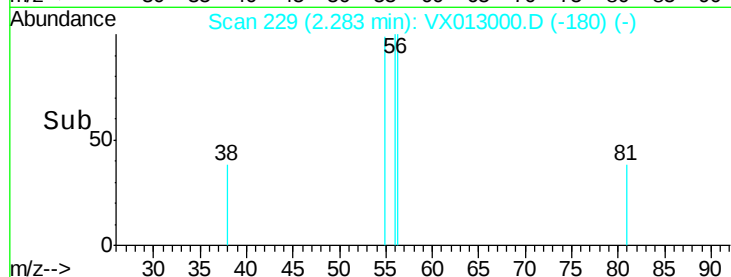
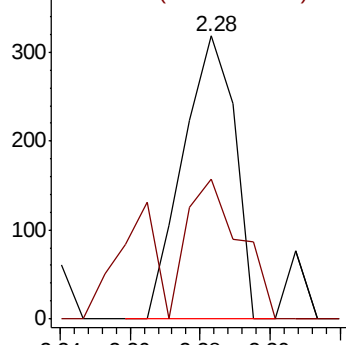
56 100

55 51.7 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 0.213 ug/l

RT: 2.73 min Scan# 302

Delta R.T. 0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

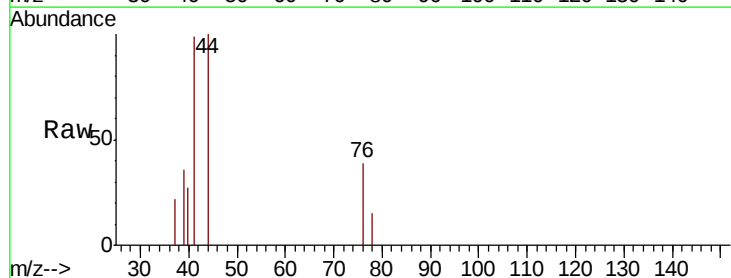
Tgt Ion: 41 Resp: 618

Ion Ratio Lower Upper

41 100

39 60.2 51.0 76.6

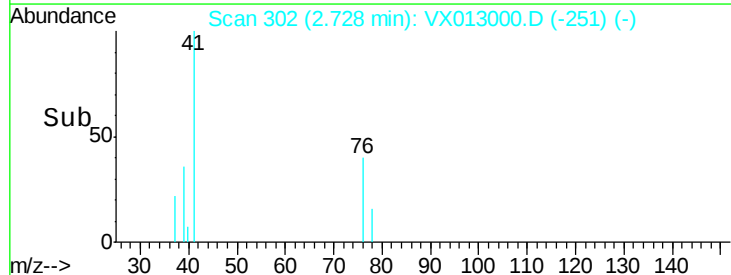
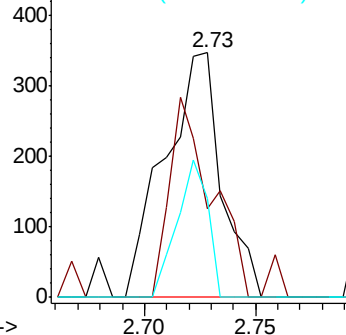
76 30.3 26.2 39.4

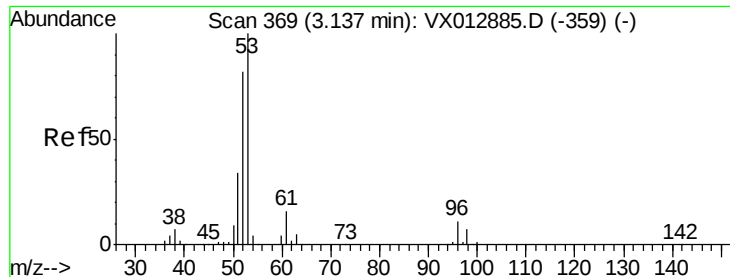


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#15

Acrylonitrile

Concen: 0.892 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

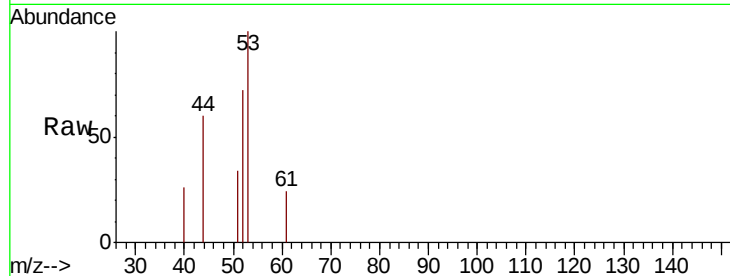
Tot Ion: 53 Resp: 904

Ion Ratio Lower Upper

53 100

52 86.5 66.2 99.2

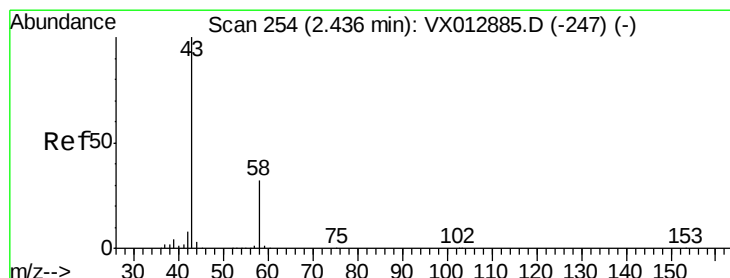
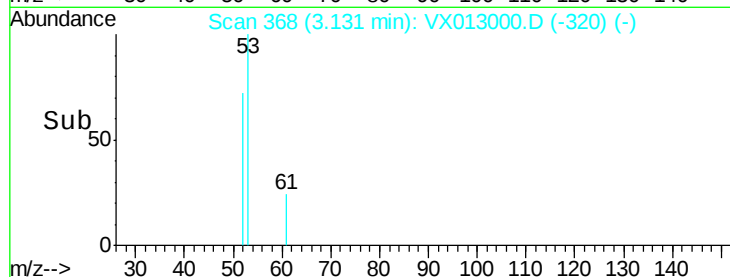
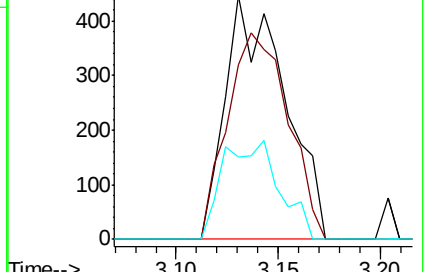
51 38.6 28.2 42.4



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.280 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013000.D

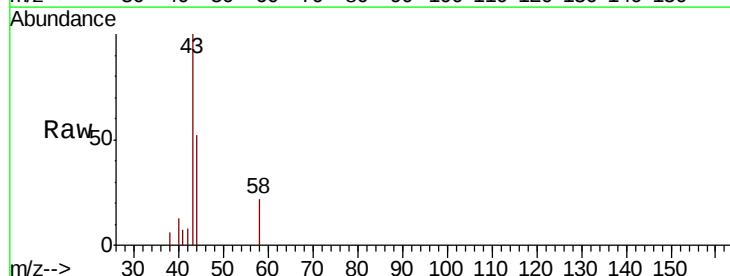
Acq: 10 Oct 2019 16:53

Tgt Ion: 43 Resp: 1362

Ion Ratio Lower Upper

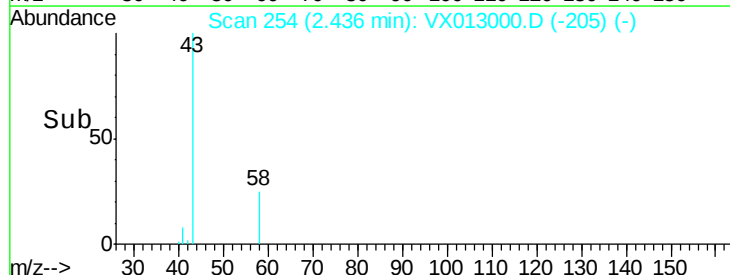
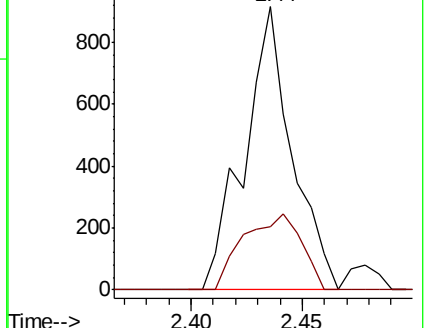
43 100

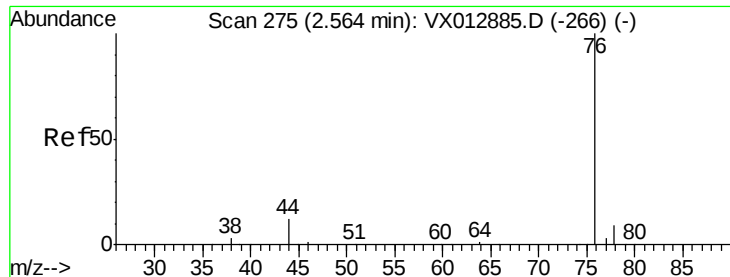
58 22.2 25.4 38.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

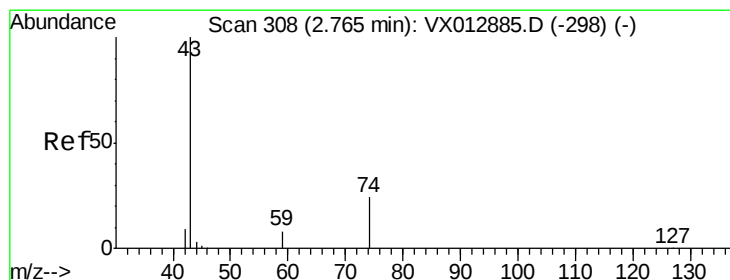
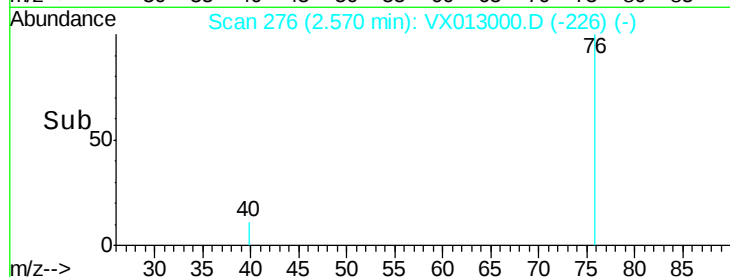
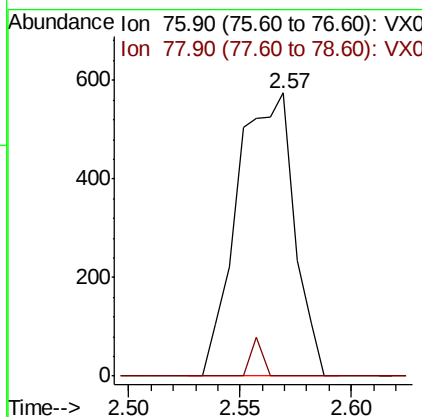
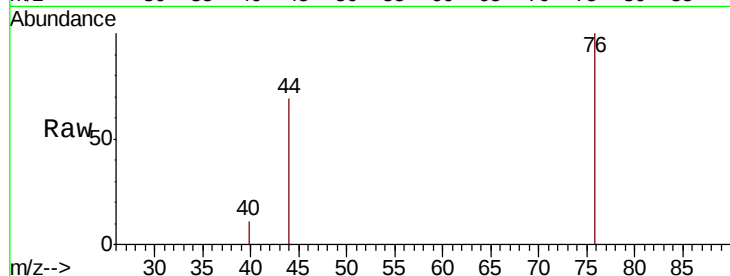




#17
Carbon Disulfide
Concen: 0.220 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

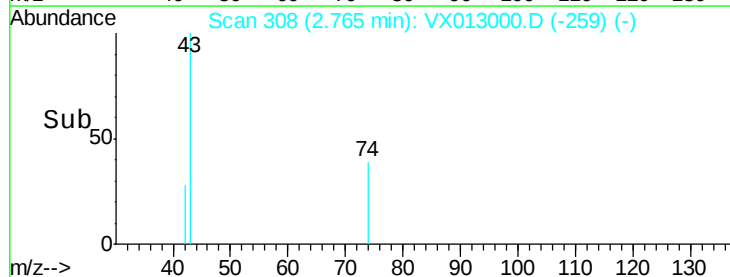
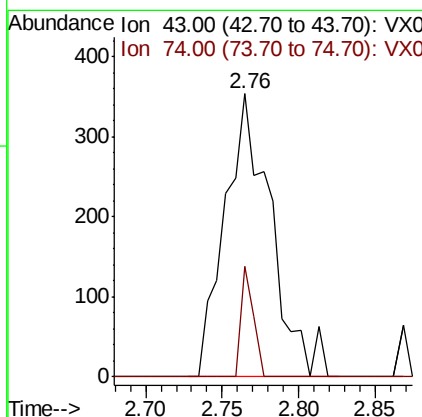
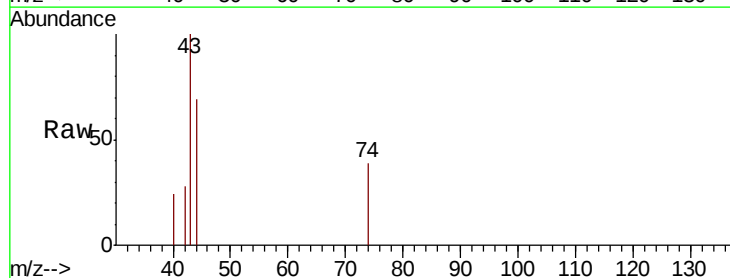
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

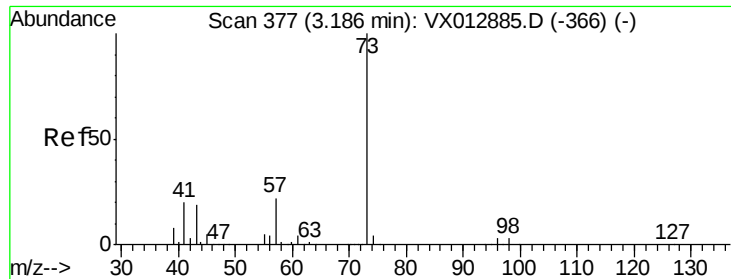
Tot Ion: 76 Resp: 1023
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 0.293 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion: 43 Resp: 739
Ion Ratio Lower Upper
43 100
74 10.6 19.2 28.8#

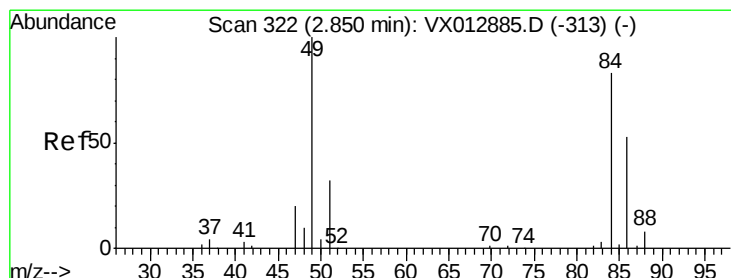
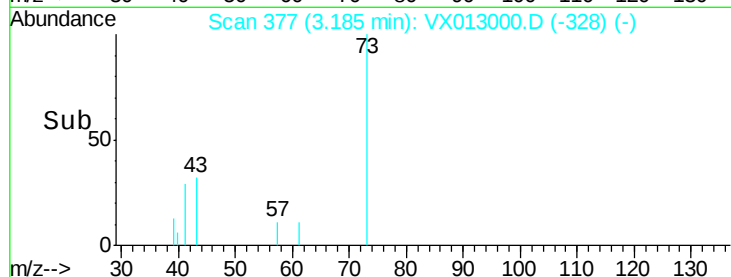
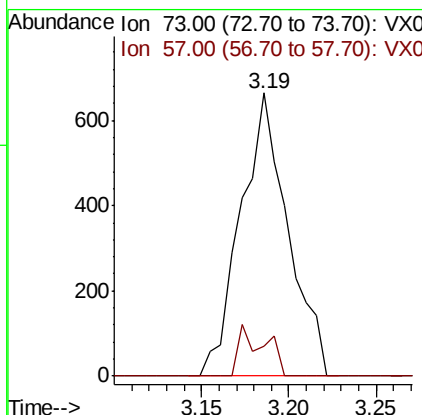
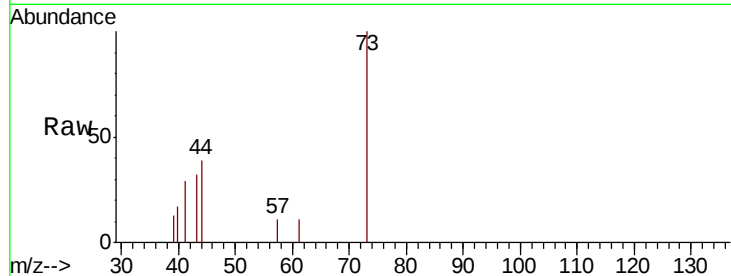




#19
Methvl tert-butvl Ether
Concen: 0.221 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

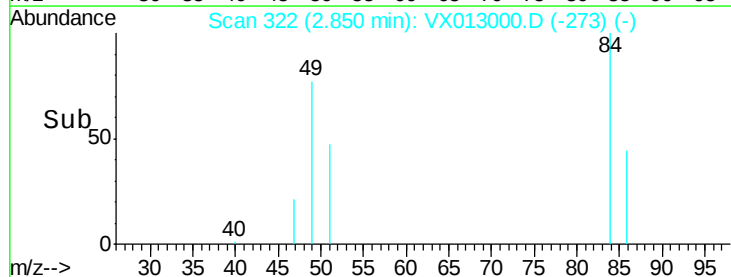
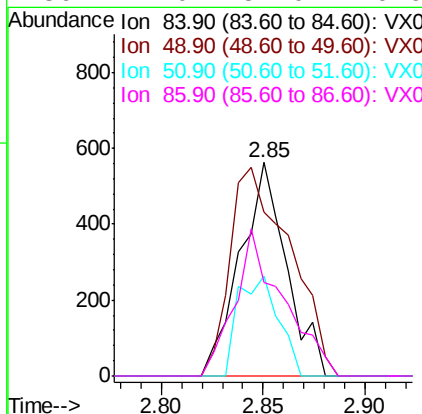
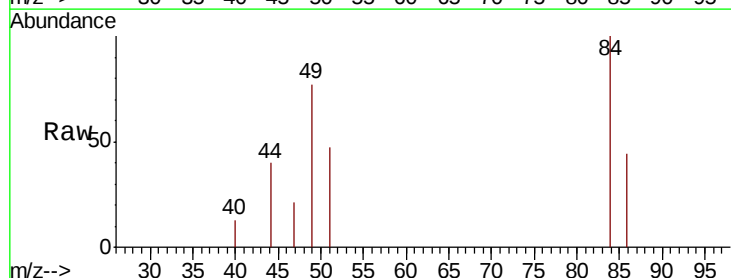
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

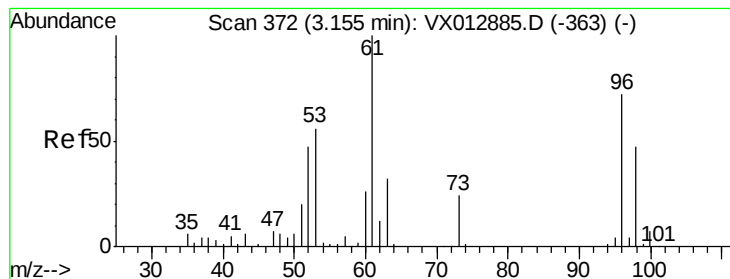
Tot Ion: 73 Resp: 1247
Ion Ratio Lower Upper
73 100
57 10.7 17.8 26.6#



#20
Methylene Chloride
Concen: 0.452 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion: 84 Resp: 884
Ion Ratio Lower Upper
84 100
49 76.6 96.6 144.8#
51 46.5 30.7 46.1#
86 44.0 51.0 76.6#





#21

trans-1,2-Dichloroethene

Concen: 0.351 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

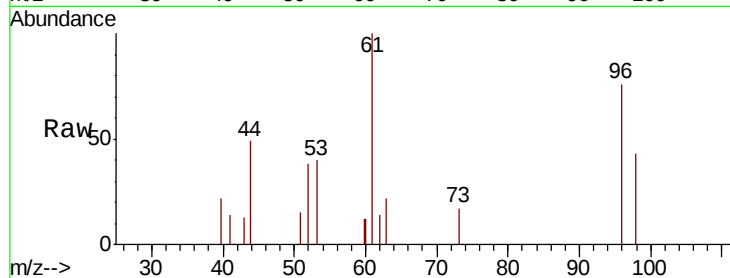
Tot Ion: 96 Resp: 614

Ion Ratio Lower Upper

96 100

61 131.8 110.4 165.6

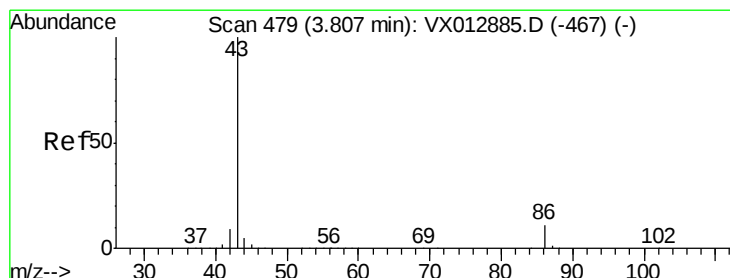
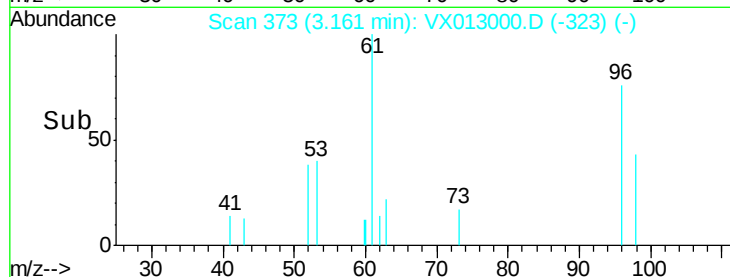
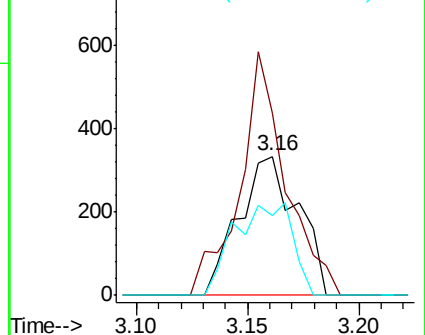
98 57.1 51.5 77.3



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#23

Vinyl Acetate

Concen: 0.726 ug/l

RT: 3.81 min Scan# 480

Delta R.T. 0.01 min

Lab File: VX013000.D

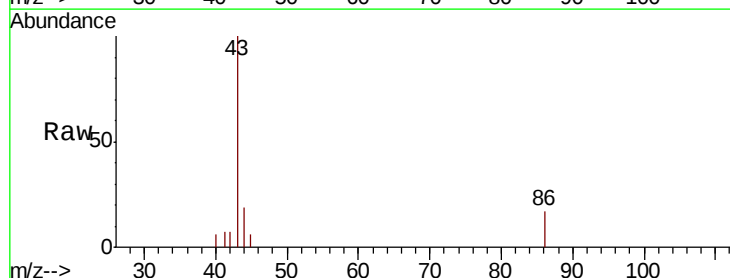
Acq: 10 Oct 2019 16:53

Tgt Ion: 43 Resp: 3492

Ion Ratio Lower Upper

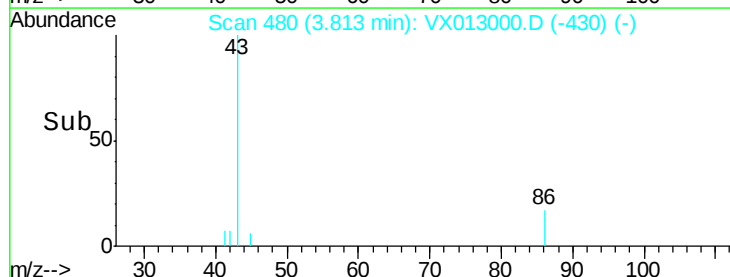
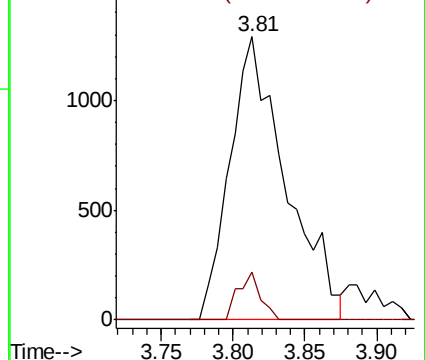
43 100

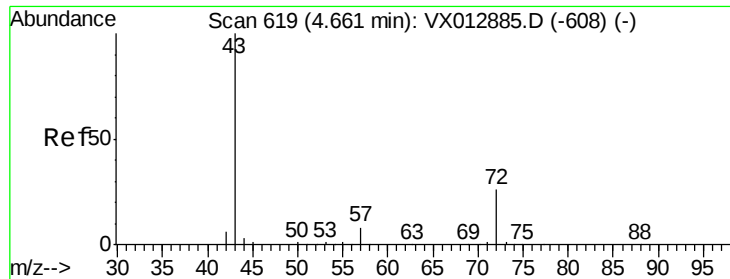
86 16.7 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#25

2-Butanone

Concen: 1.043 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

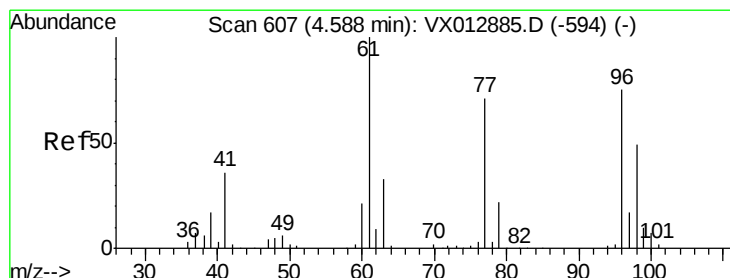
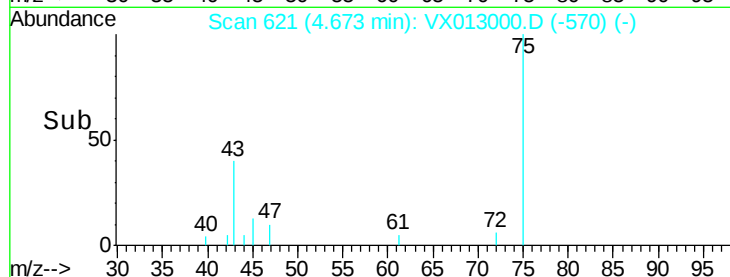
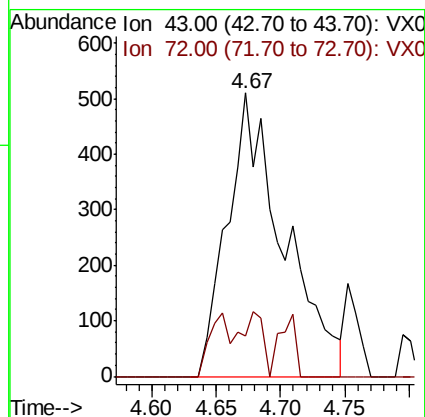
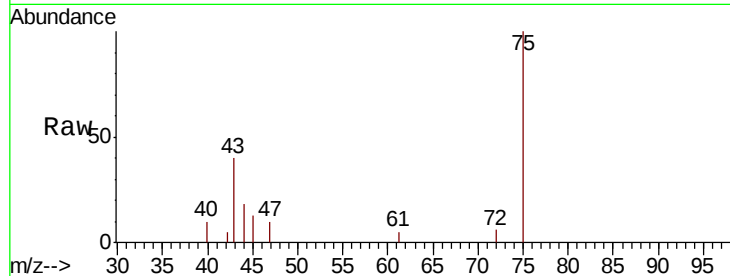
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 1540

Ion Ratio Lower Upper

43 100

72 14.3 21.0 31.6#



#27

cis-1,2-Dichloroethene

Concen: 0.217 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

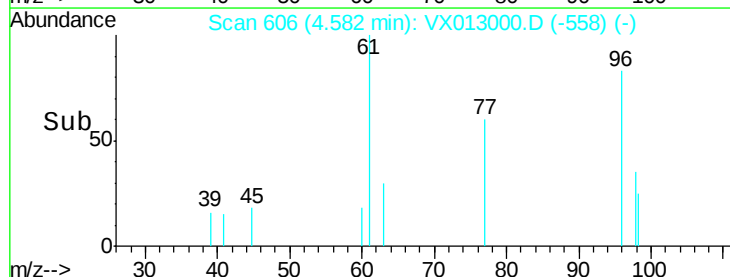
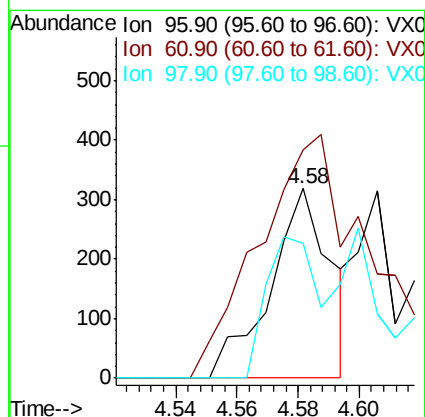
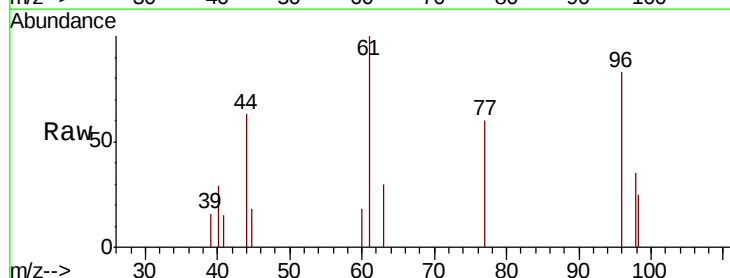
Tgt Ion: 96 Resp: 437

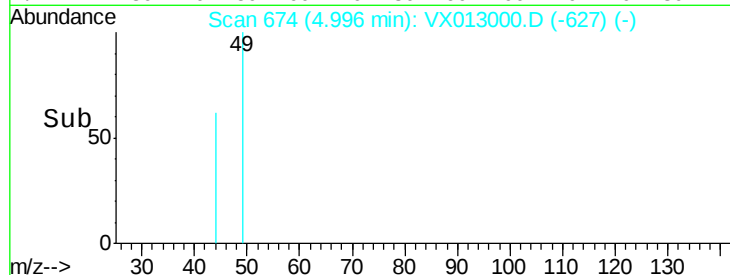
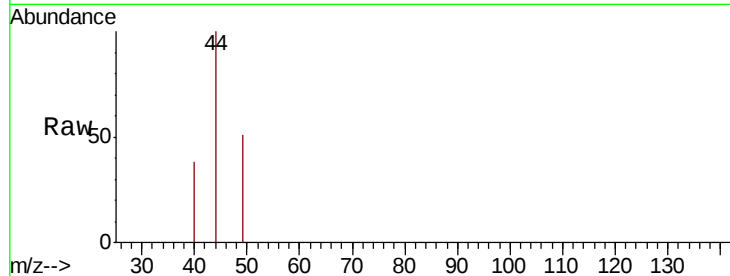
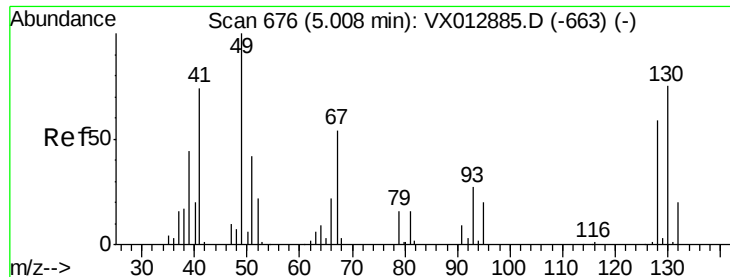
Ion Ratio Lower Upper

96 100

61 234.6 0.0 290.6

98 62.0 0.0 128.8





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

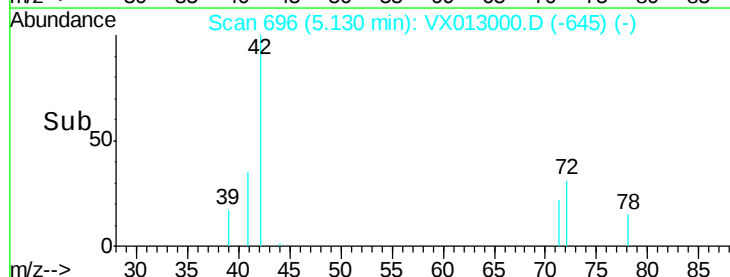
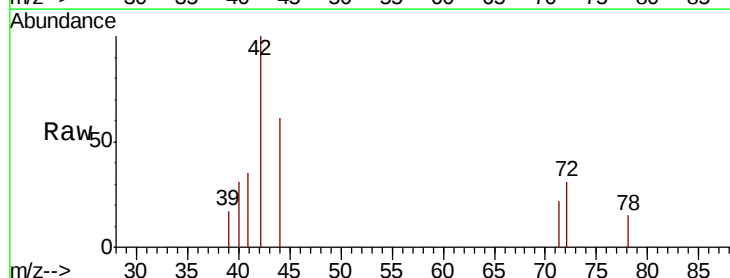
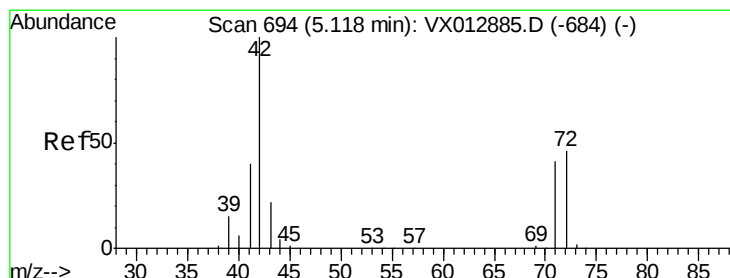
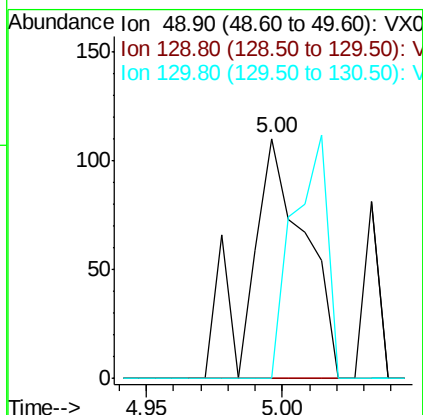
Tot Ion: 49 Resp: 157

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 62.1 93.1#



#29

Tetrahydrofuran

Concen: 0.613 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

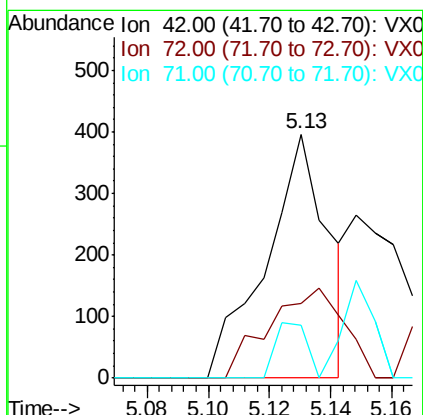
Tgt Ion: 42 Resp: 557

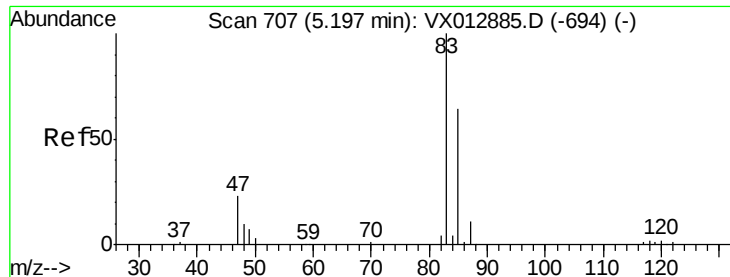
Ion Ratio Lower Upper

42 100

72 45.1 36.9 55.3

71 11.7 33.5 50.3#

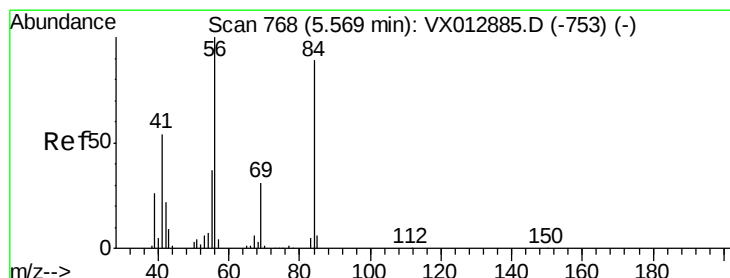
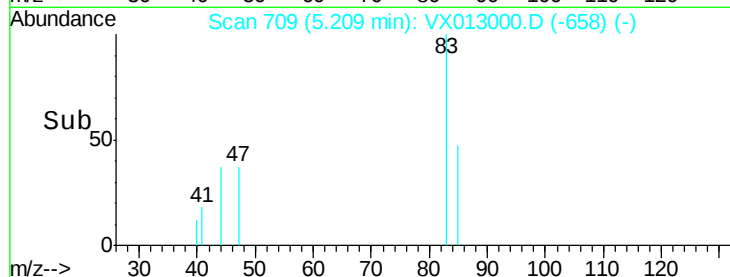
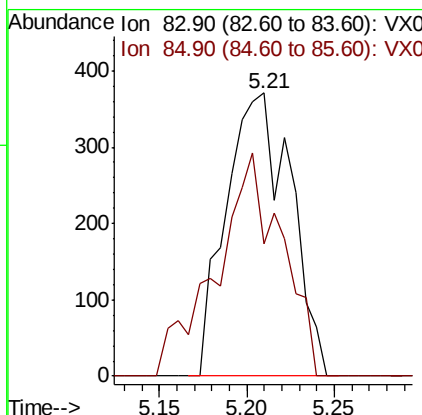
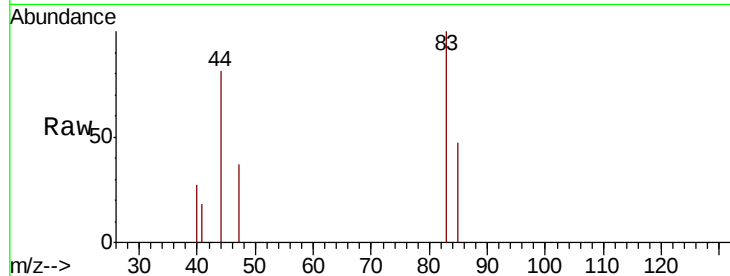




#30
Chloroform
Concen: 0.296 ug/l
RT: 5.21 min Scan# 709
Delta R.T. 0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

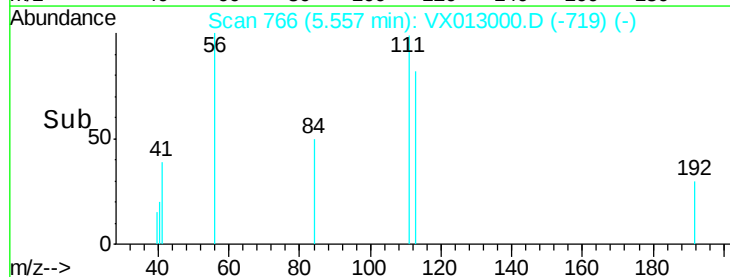
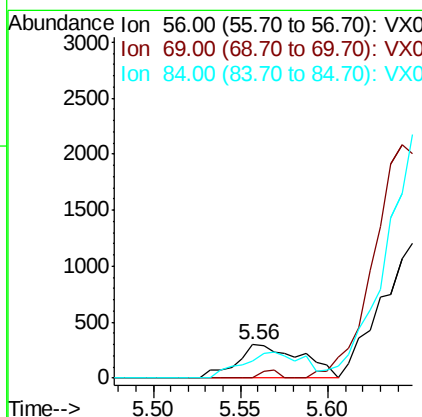
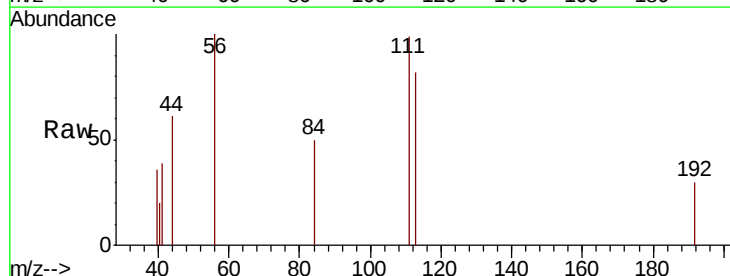
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

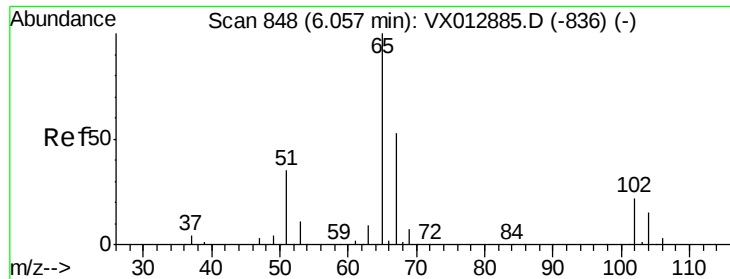
Tot Ion: 83 Resp: 951
Ion Ratio Lower Upper
83 100
85 46.6 51.5 77.3#



#31
Cyclohexane
Concen: 0.267 ug/l
RT: 5.56 min Scan# 766
Delta R.T. -0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion: 56 Resp: 783
Ion Ratio Lower Upper
56 100
69 0.0 25.2 37.8#
84 50.3 71.3 106.9#

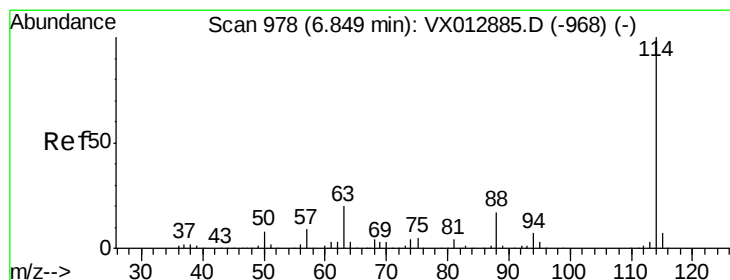
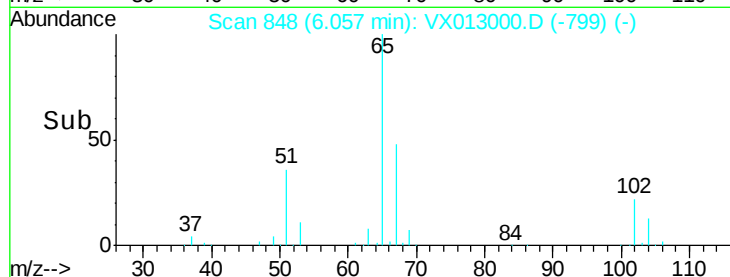
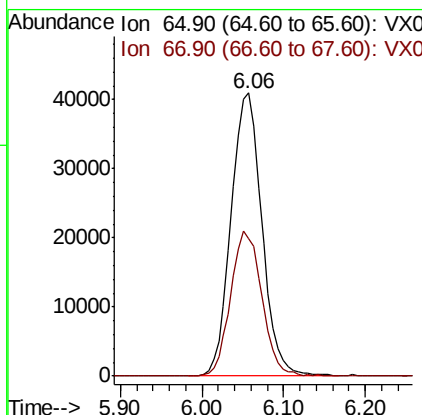
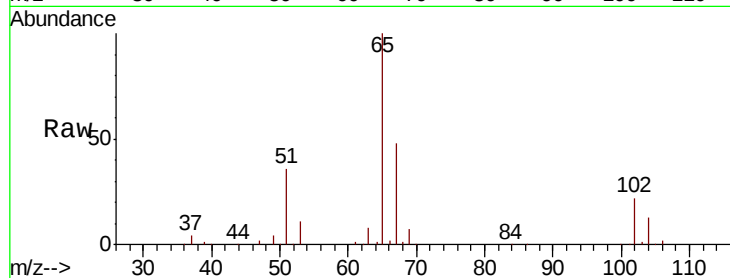




#33
 1,2-Dichloroethane-d4
 Concen: 53.061 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. -0.00 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

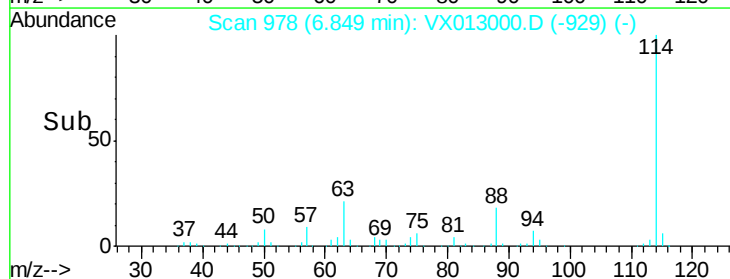
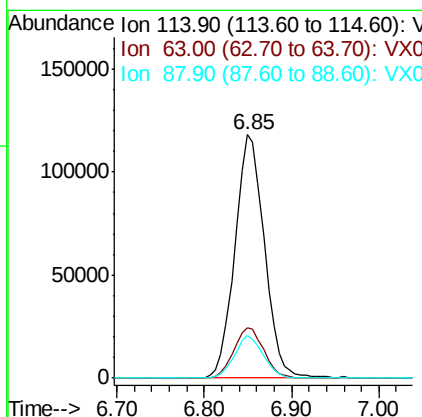
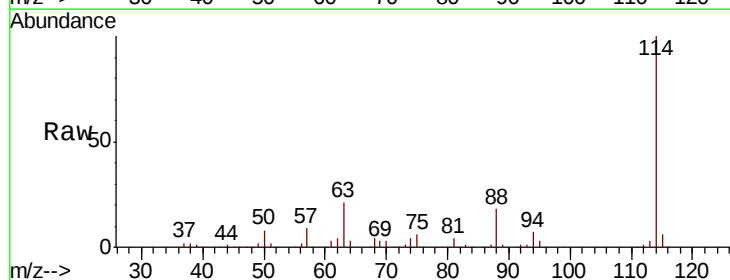
Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

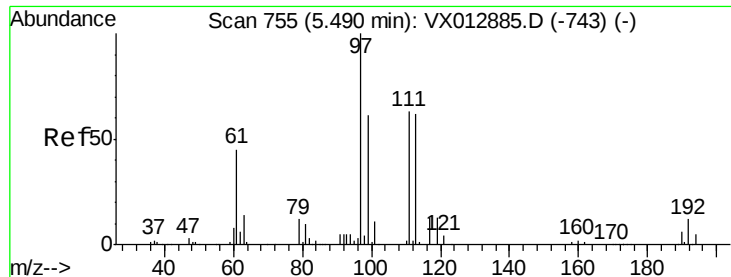
Tot Ion: 65 Resp: 107088
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

Tgt Ion: 114 Resp: 277540
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 17.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.179 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

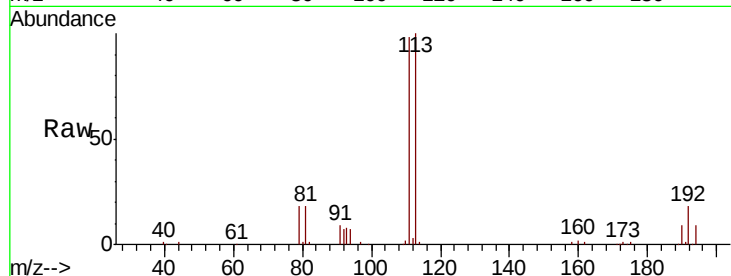
Tot Ion:113 Resp: 79931

Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.2	124.8
192	19.5	15.4	23.2

113 100

111 102.7 83.2 124.8

192 19.5 15.4 23.2

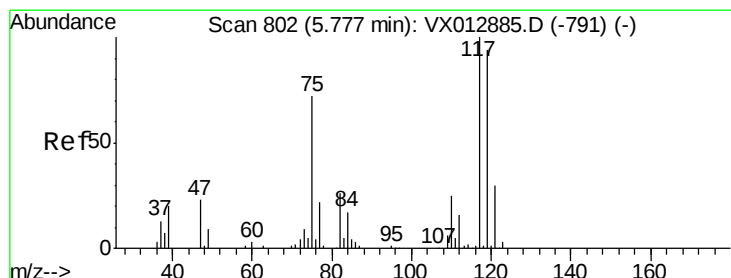
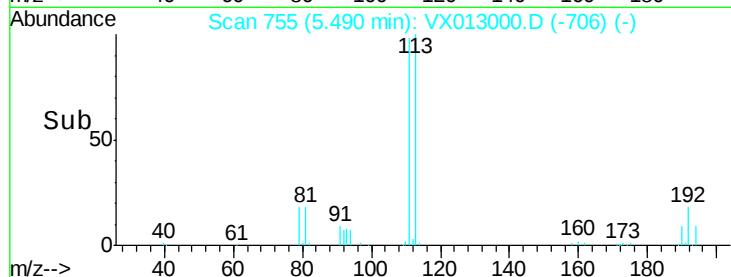
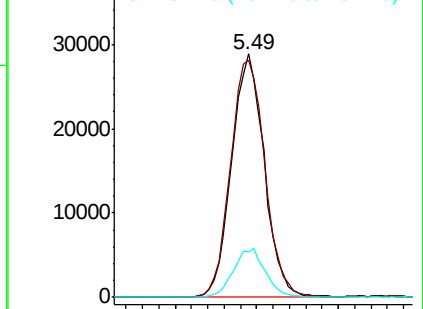


Abundance

Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#38

Carbon Tetrachloride

Concen: 6.988 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

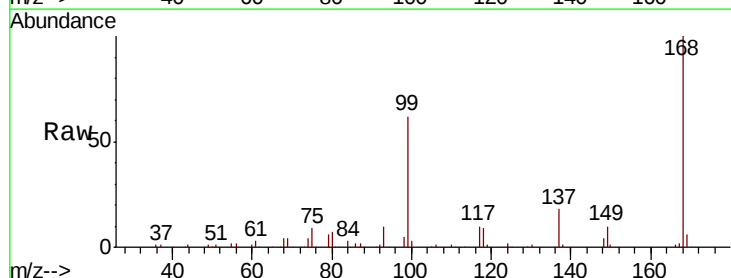
Tgt Ion:117 Resp: 16596

Ion	Ratio	Lower	Upper
117	100		
119	5.7	74.5	111.7#
121	0.0	24.2	36.4#

117 100

119 5.7 74.5 111.7#

121 0.0 24.2 36.4#

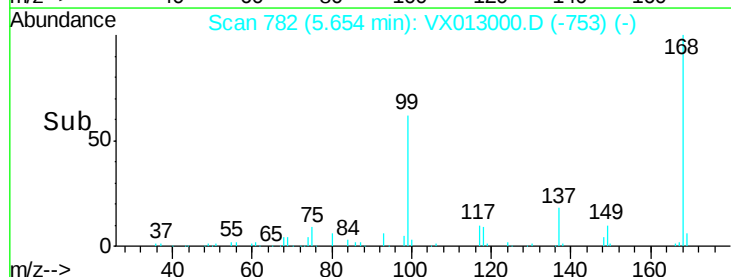
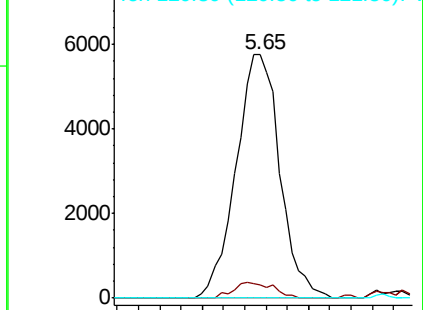


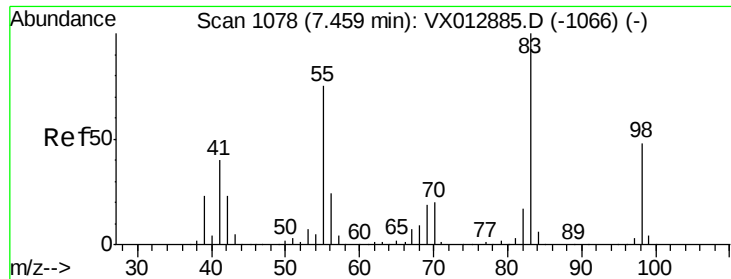
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

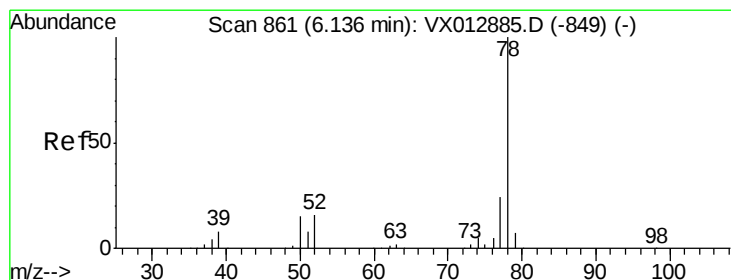
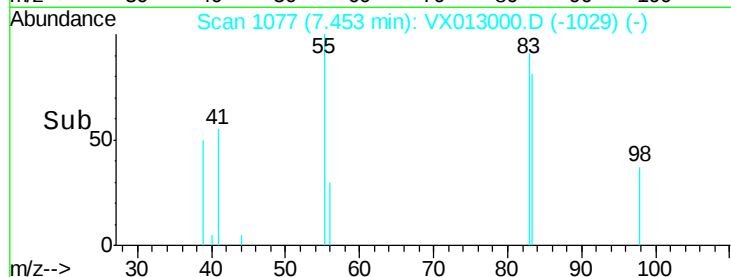
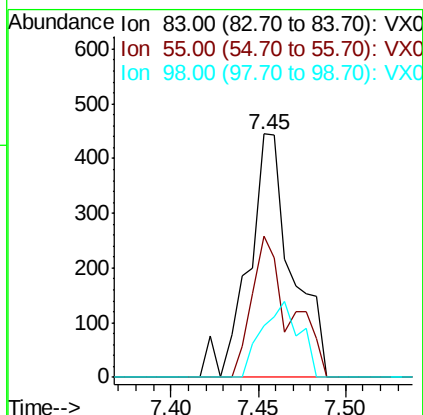
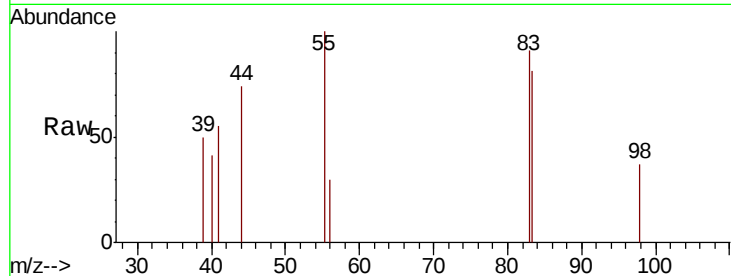




#39
Methvlcvclohexane
Concen: 0.262 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

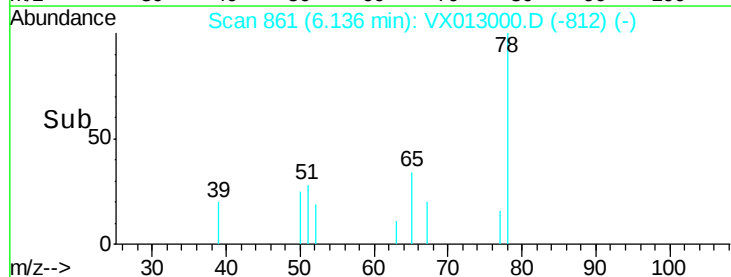
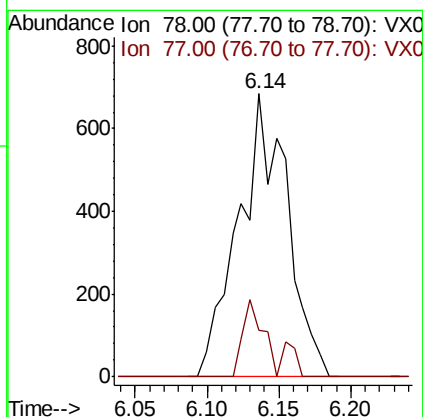
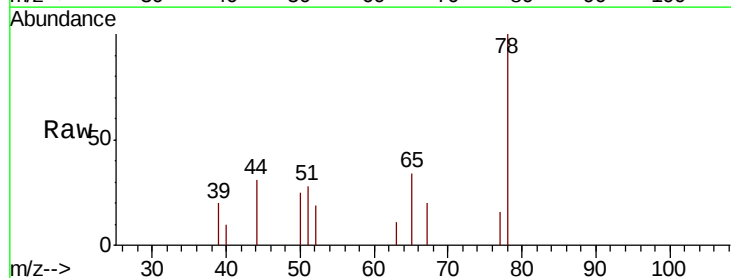
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

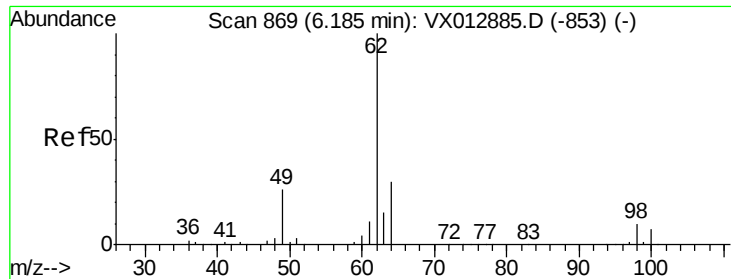
Tot Ion: 83 Resp: 774
Ion Ratio Lower Upper
83 100
55 58.0 60.2 90.4#
98 21.3 38.5 57.7#



#40
Benzene
Concen: 0.222 ug/l
RT: 6.14 min Scan# 861
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion: 78 Resp: 1602
Ion Ratio Lower Upper
78 100
77 16.4 19.0 28.4#

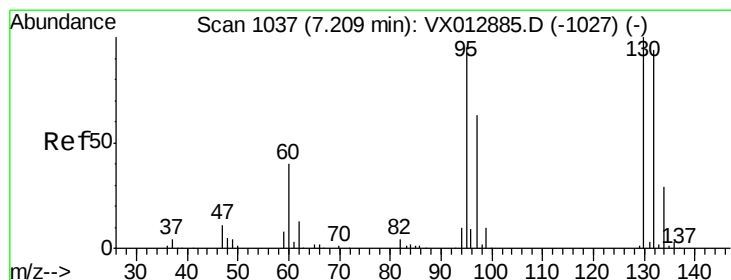
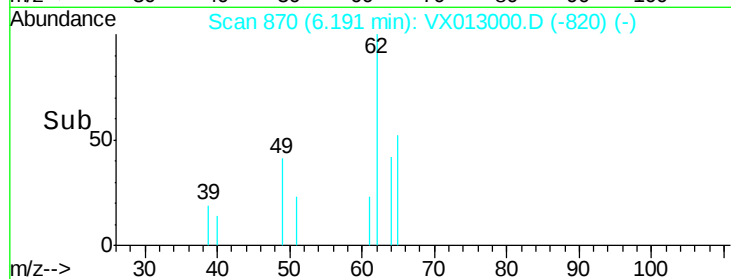
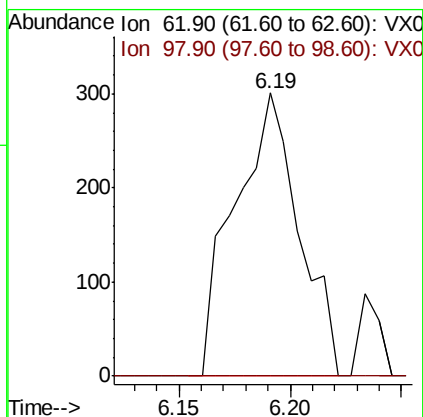
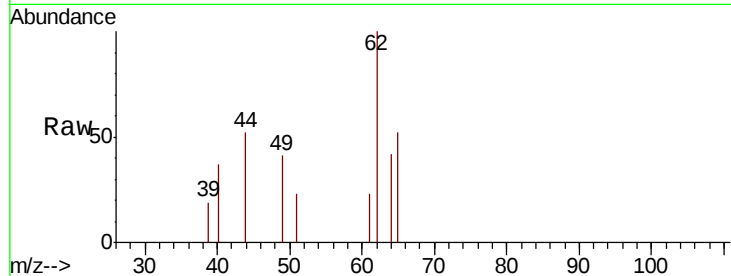




#42
 1,2-Dichloroethane
 Concen: 0.234 ug/l
 RT: 6.19 min Scan# 870
 Delta R.T. 0.01 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

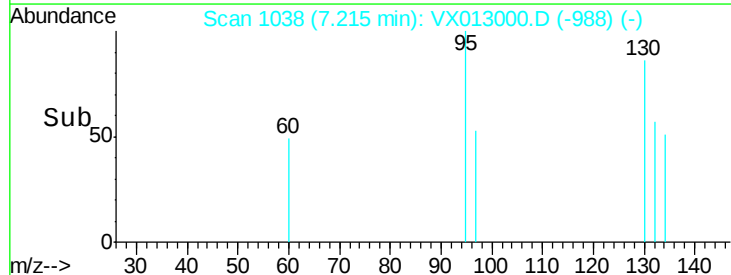
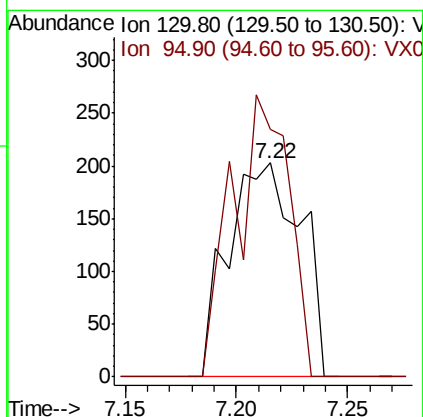
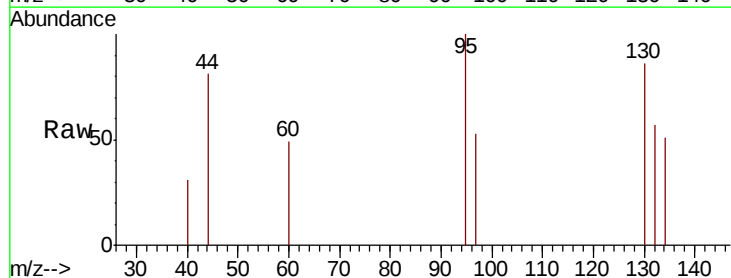
Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

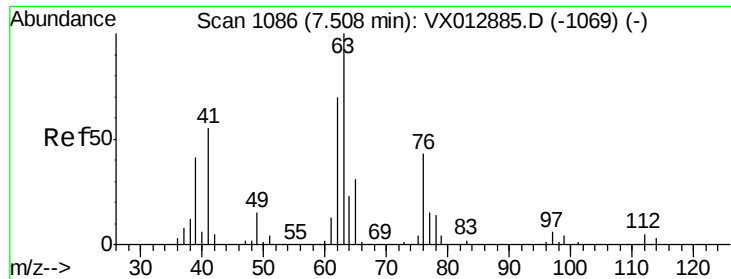
Tot Ion: 62 Resp: 605
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 20.4



#44
 Trichloroethene
 Concen: 0.230 ug/l
 RT: 7.22 min Scan# 1038
 Delta R.T. 0.01 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

Tgt Ion:130 Resp: 460
 Ion Ratio Lower Upper
 130 100
 95 115.8 0.0 189.2





#45

1,2-Dichloropropane

Concen: 0.222 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

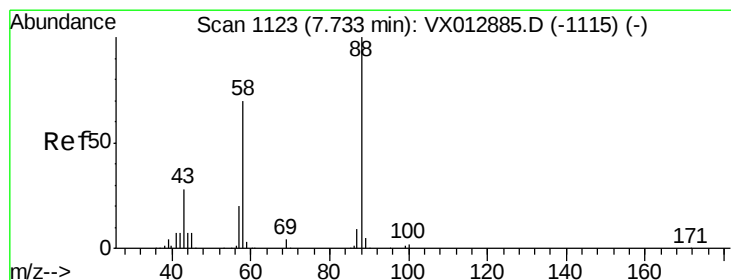
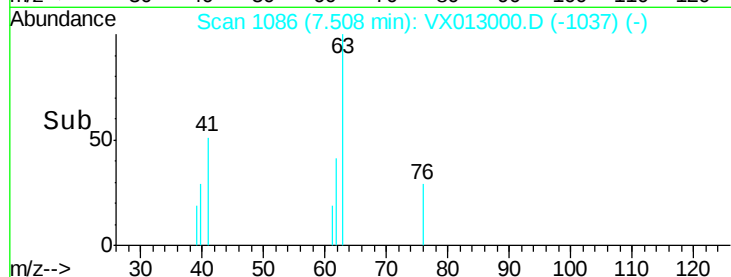
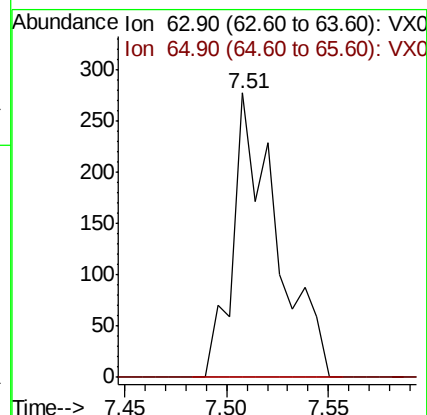
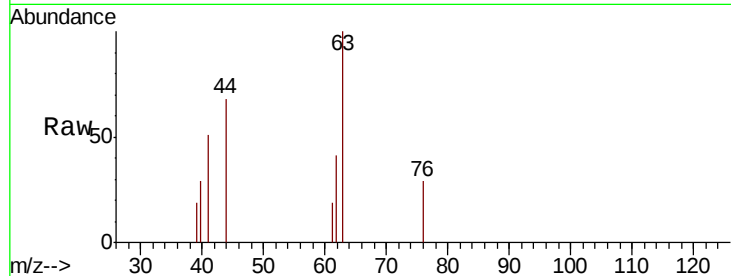
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 63 Resp: 408

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#49

1,4-Dioxane

Concen: 35.758 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.03 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

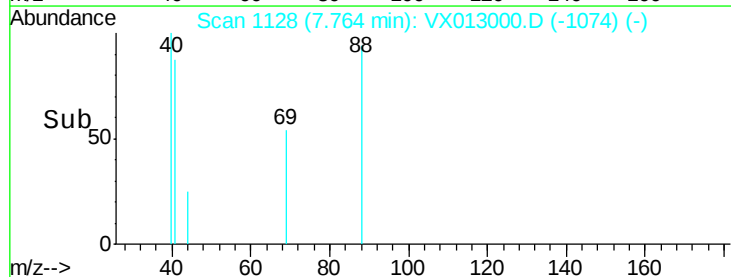
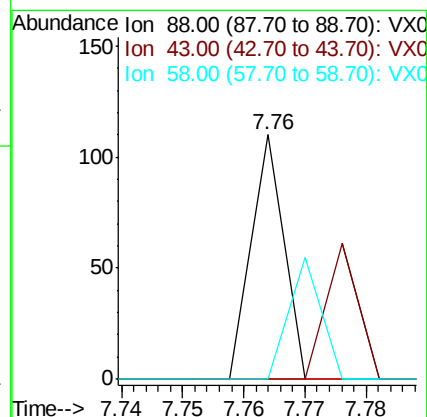
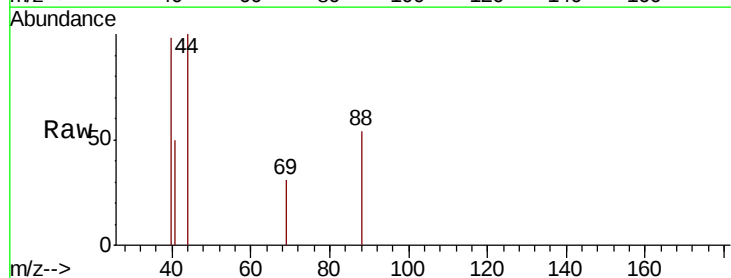
Tgt Ion: 88 Resp: 40

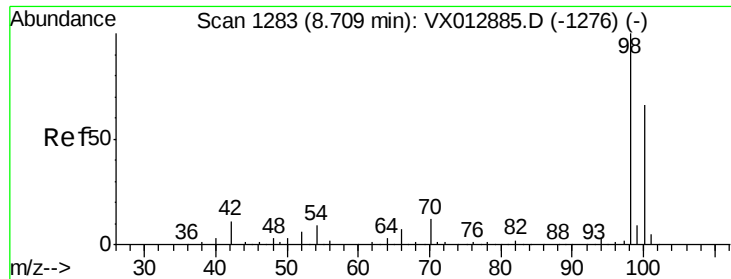
Ion Ratio Lower Upper

88 100

43 55.0 25.0 37.6#

58 50.0 55.4 83.2#





#50

Toluene-d8

Concen: 48.954 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

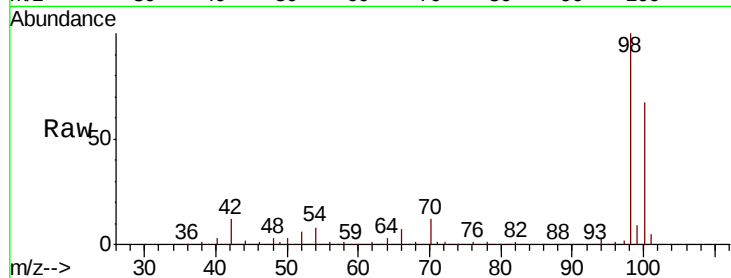
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 98 Resp: 304142

Ion Ratio Lower Upper

98 100

100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

200000

150000

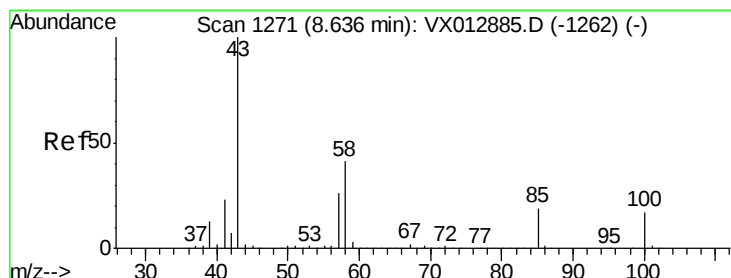
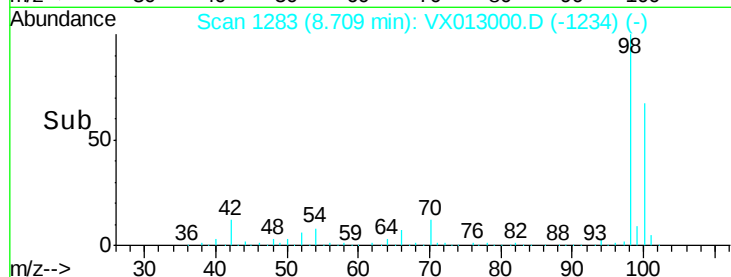
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.979 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX013000.D

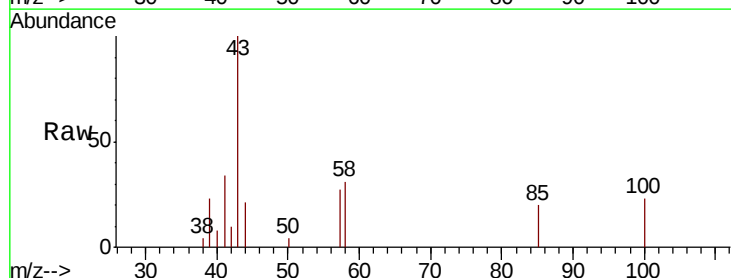
Acq: 10 Oct 2019 16:53

Tgt Ion: 43 Resp: 2673

Ion Ratio Lower Upper

43 100

58 34.8 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

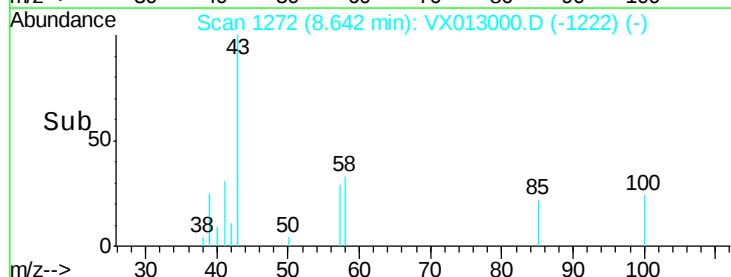
1000

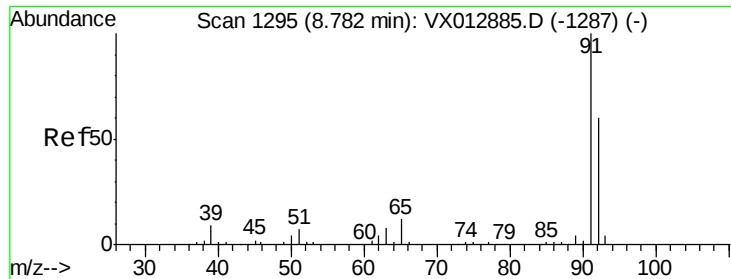
500

0

Time-->

8.60 8.65





#52

Toluene

Concen: 0.214 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

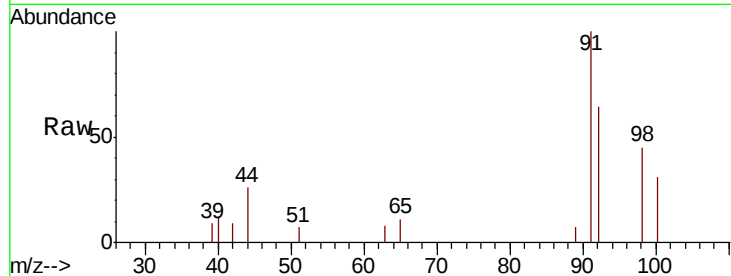
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 92 Resp: 986

Ion Ratio Lower Upper

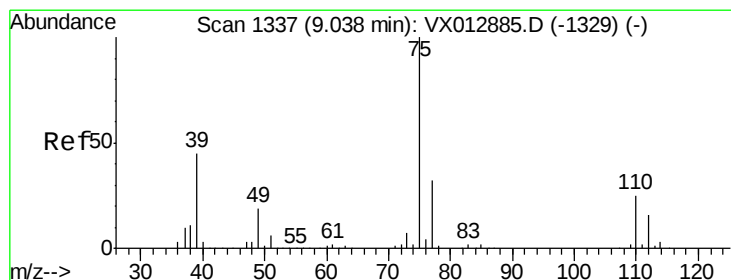
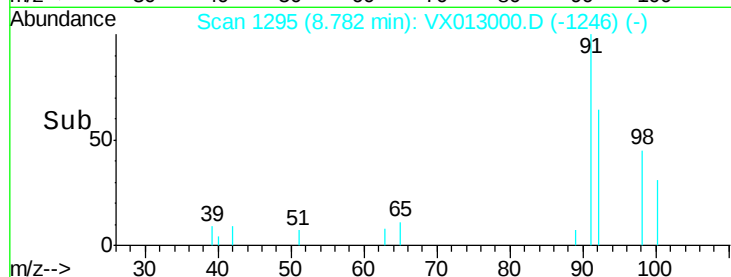
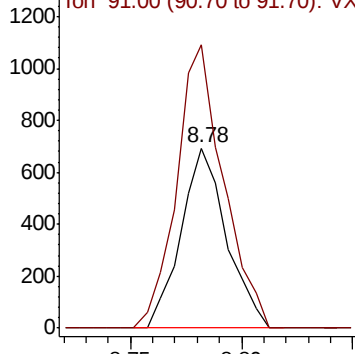
92 100

91 162.2 135.9 203.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.283 ug/l

RT: 9.04 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VX013000.D

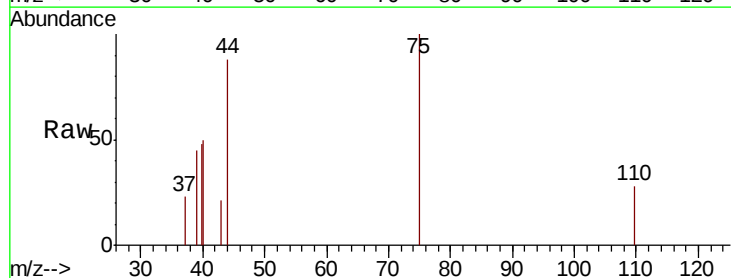
Acq: 10 Oct 2019 16:53

Tgt Ion: 75 Resp: 356

Ion Ratio Lower Upper

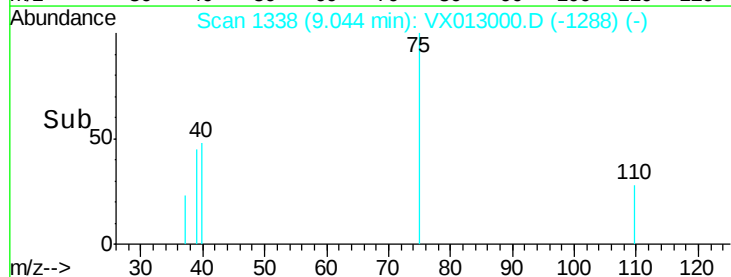
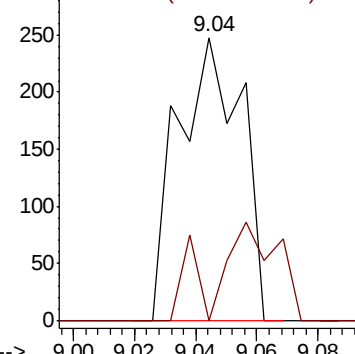
75 100

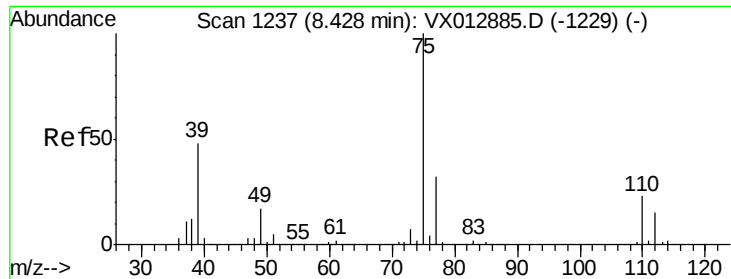
77 0.0 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



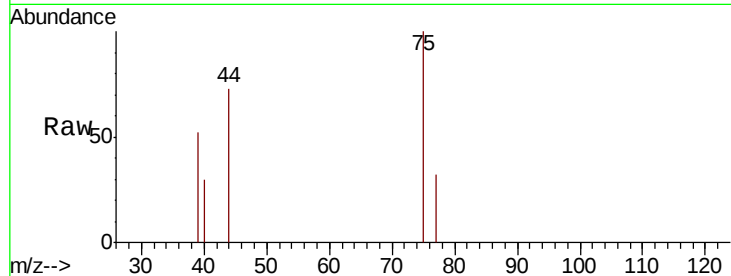


#54

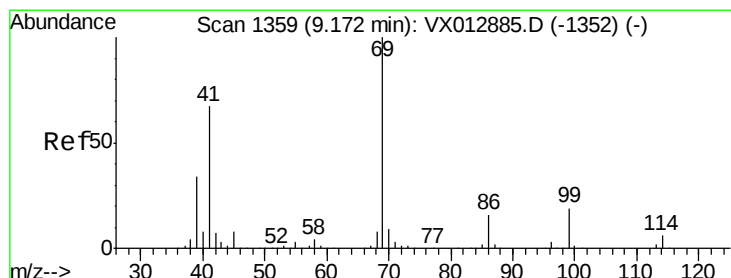
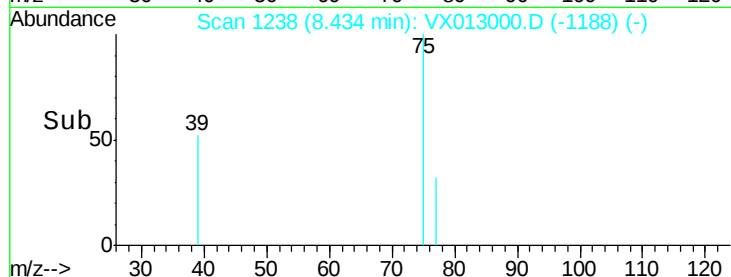
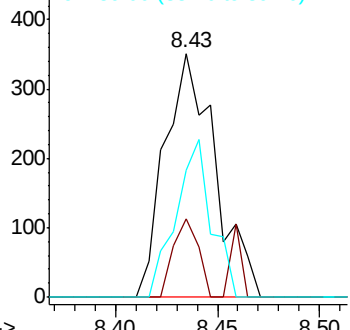
cis-1,3-Dichloropropene
 Concen: 0.206 ug/l
 RT: 8.43 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion: 75 Resp: 604
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.8 38.8
 39 51.9 38.2 57.2



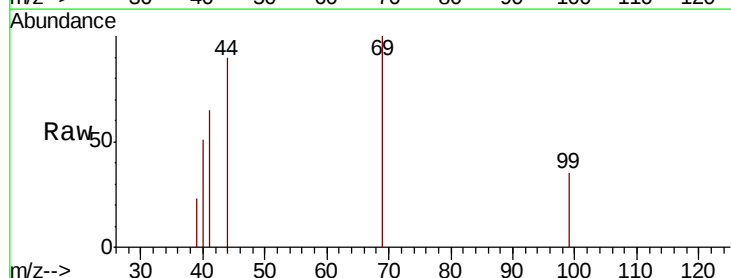
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



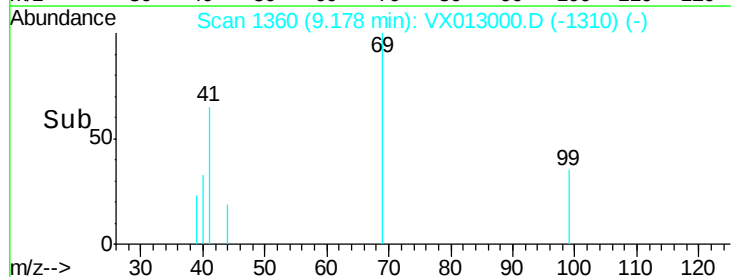
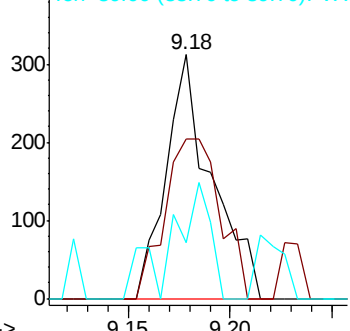
#56

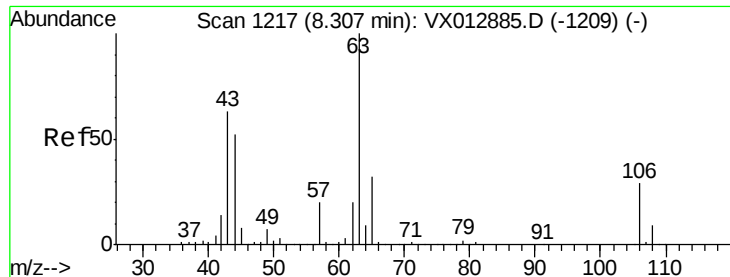
Ethyl methacrylate
 Concen: 1.974 ug/l
 RT: 9.18 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

Tgt Ion: 69 Resp: 483
 Ion Ratio Lower Upper
 69 100
 41 80.3 52.1 78.1#
 39 32.3 27.8 41.8



Abundance Ion 69.00 (68.70 to 69.70): VX0
 Ion 41.00 (40.70 to 41.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

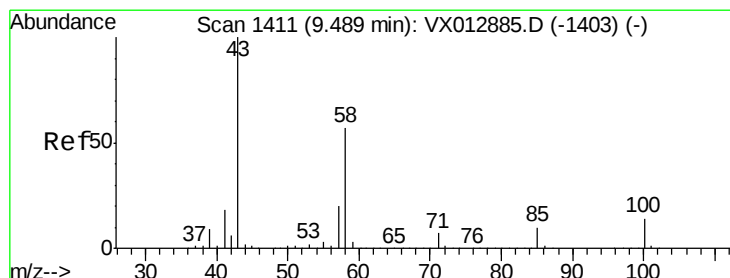
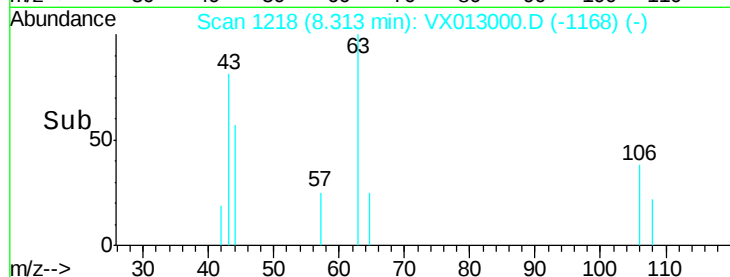
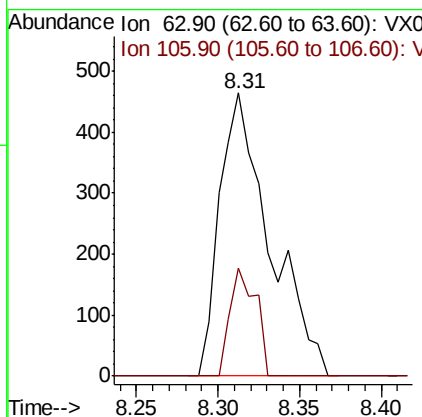
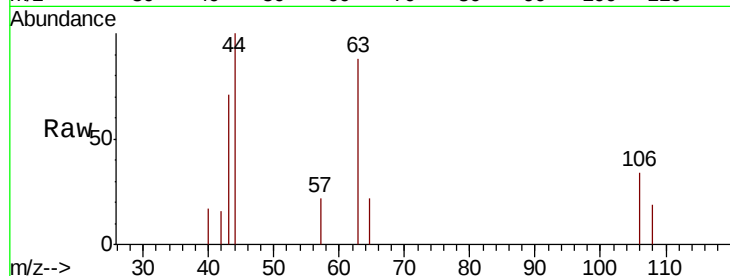




#58
2-Chloroethyl Vinyl ether
Concen: 0.743 ug/l
RT: 8.31 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

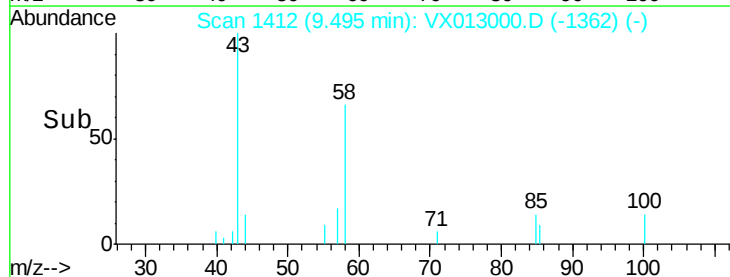
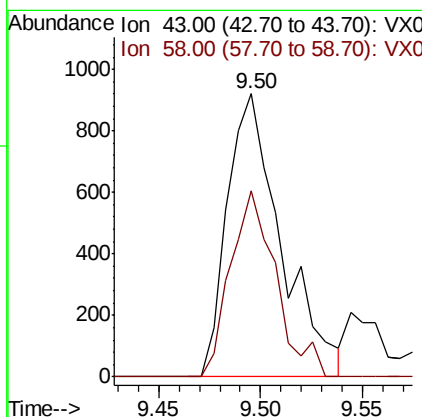
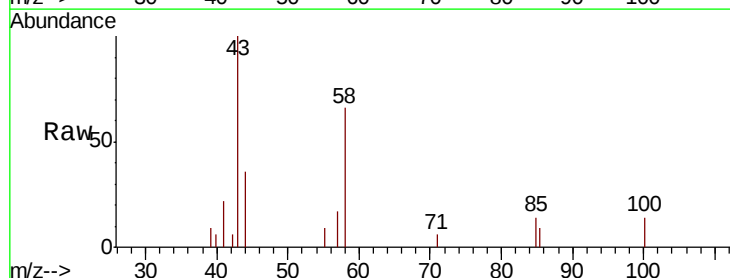
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

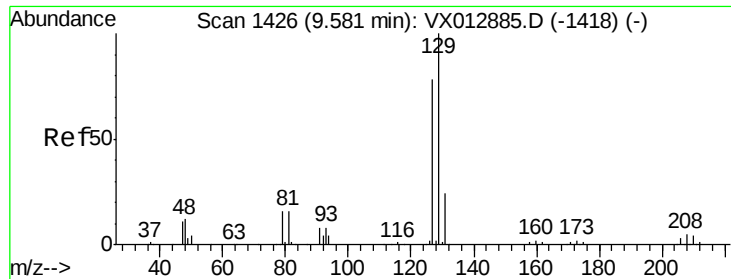
Tot Ion: 63 Resp: 996
Ion Ratio Lower Upper
63 100
106 19.6 23.8 35.8#



#59
2-Hexanone
Concen: 0.796 ug/l
RT: 9.50 min Scan# 1412
Delta R.T. 0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion: 43 Resp: 1692
Ion Ratio Lower Upper
43 100
58 55.2 28.1 84.3

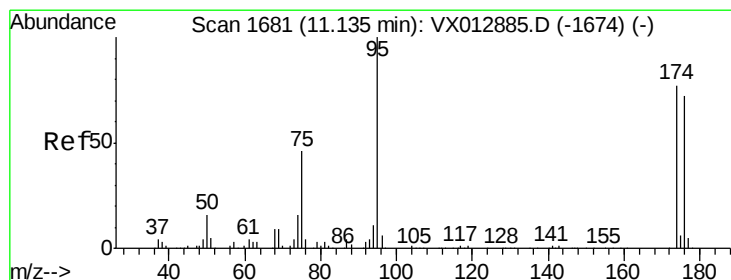
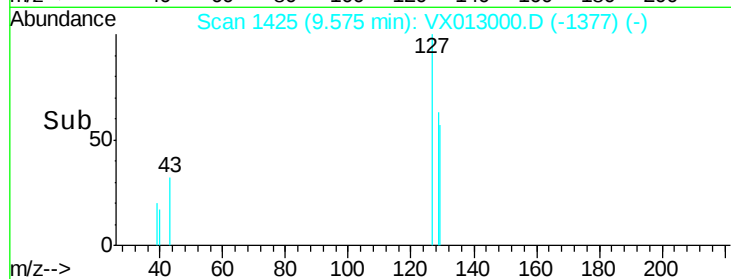
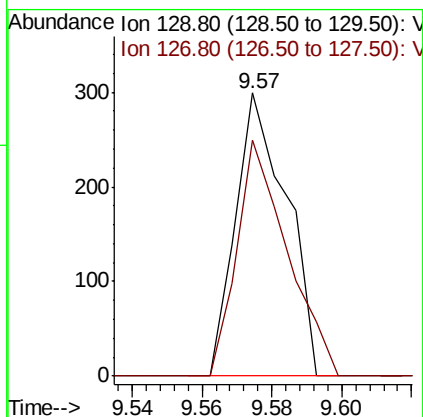
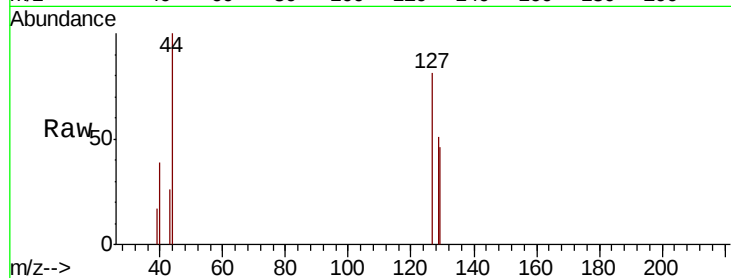




#60
 Dibromochloromethane
 Concen: 2.000 ug/l
 RT: 9.57 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

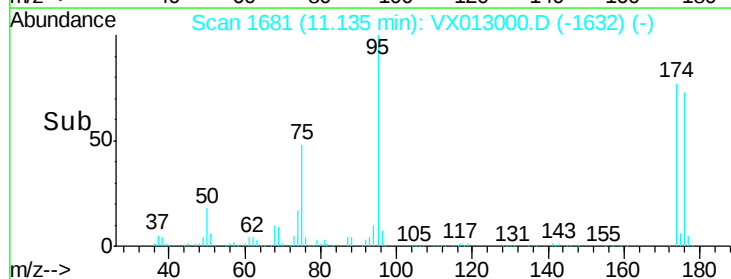
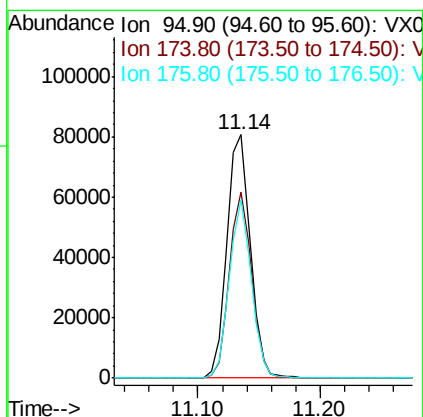
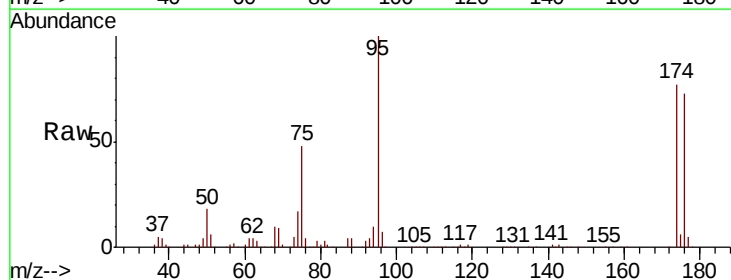
Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

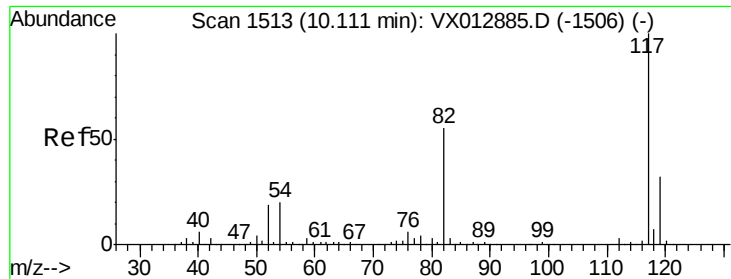
Tot Ion:129 Resp: 301
 Ion Ratio Lower Upper
 129 100
 127 83.4 38.9 116.7



#62
 4-Bromofluorobenzene
 Concen: 44.263 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VX013000.D
 Acq: 10 Oct 2019 16:53

Tgt Ion: 95 Resp: 106852
 Ion Ratio Lower Upper
 95 100
 174 73.2 0.0 143.4
 176 69.0 0.0 136.0

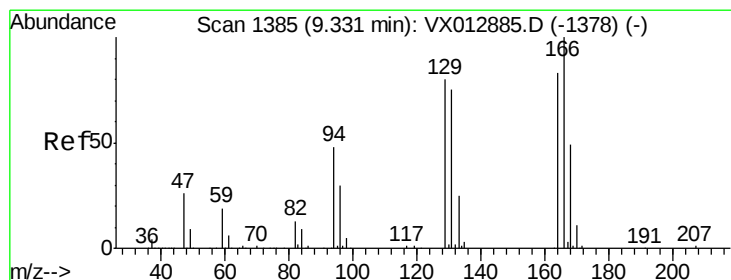
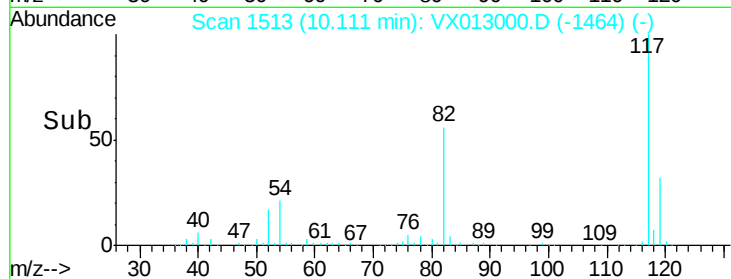
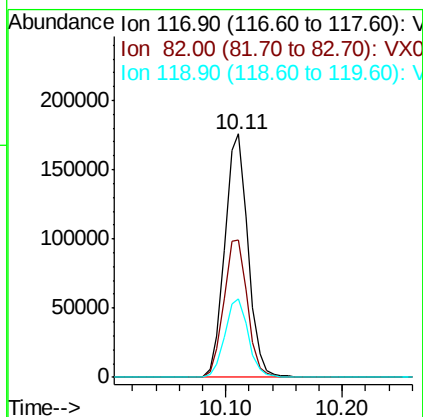
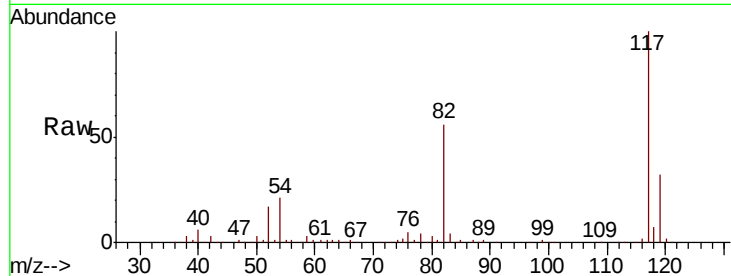




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

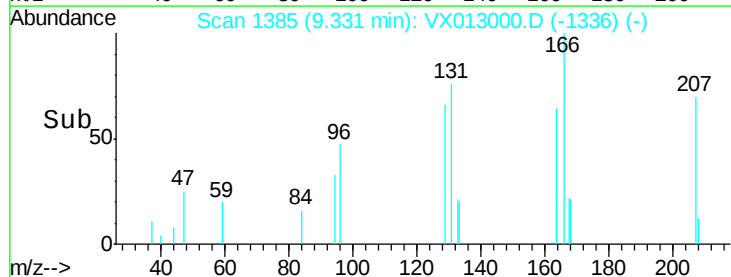
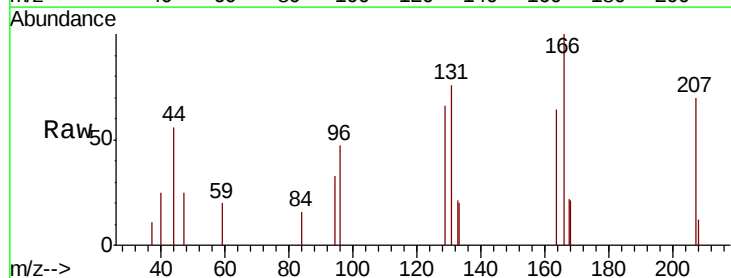
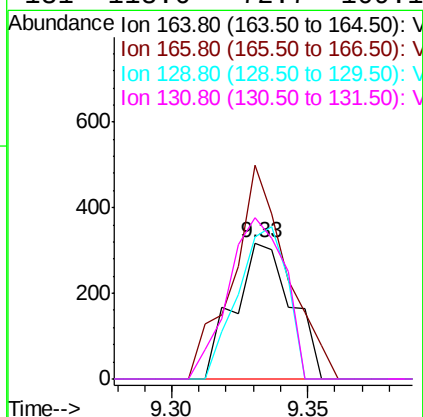
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

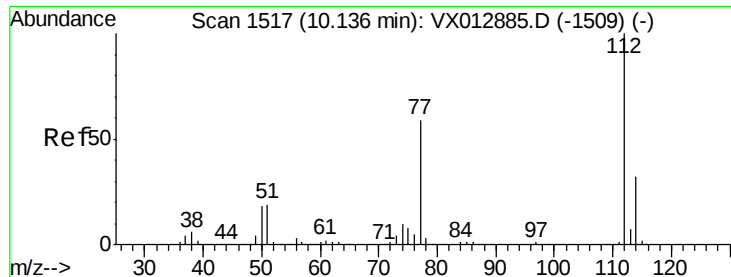
Tot Ion:117 Resp: 242784
Ion Ratio Lower Upper
117 100
82 56.4 44.1 66.1
119 32.3 25.8 38.8



#64
Tetrachloroethene
Concen: 0.276 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion:164 Resp: 465
Ion Ratio Lower Upper
164 100
166 156.9 96.9 145.3#
129 104.1 77.9 116.9
131 118.6 72.7 109.1#

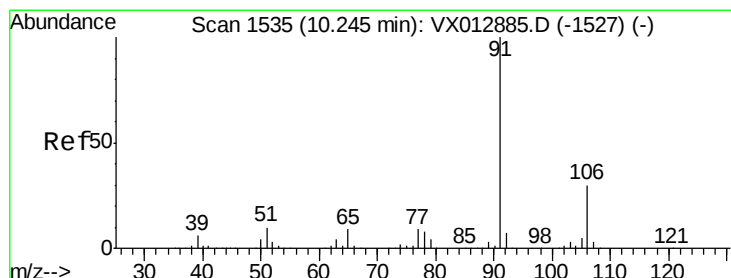
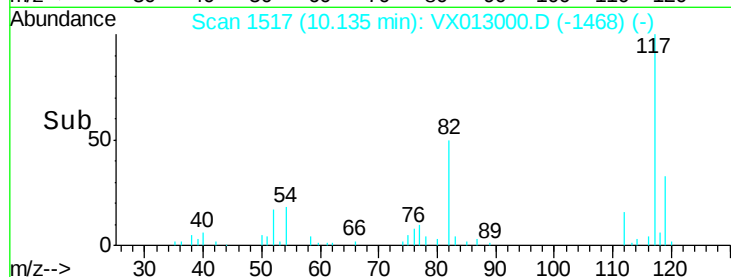
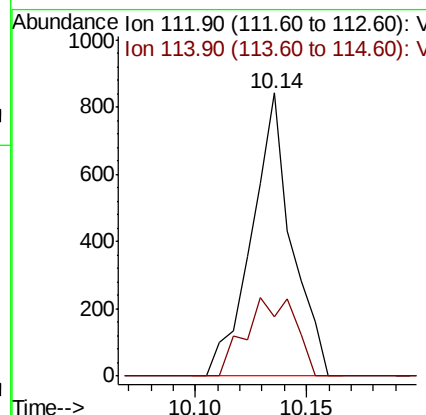
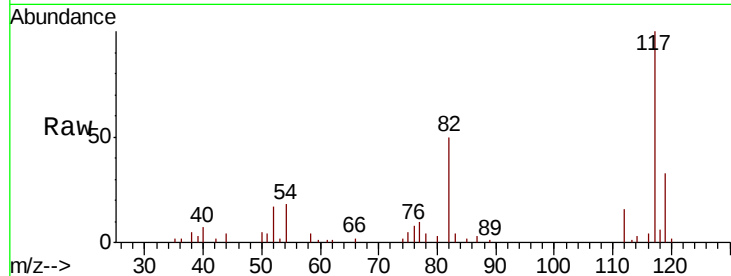




#65
Chlorobenzene
Concen: 0.219 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

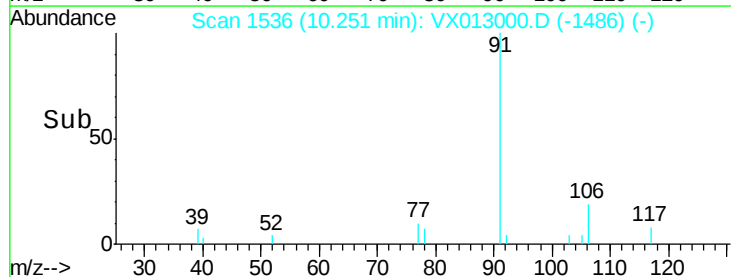
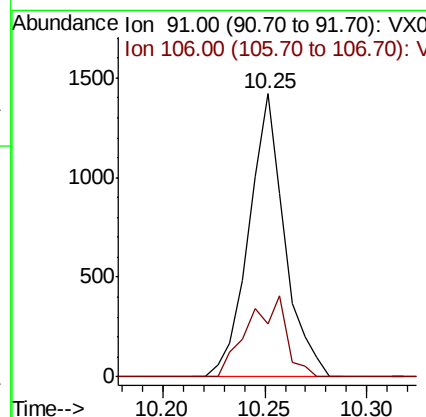
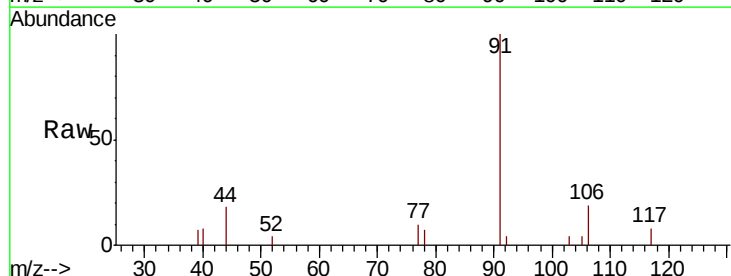
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

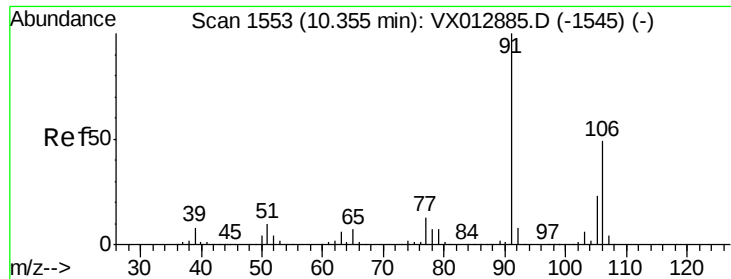
Tot Ion:112 Resp: 1054
Ion Ratio Lower Upper
112 100
114 21.1 25.7 38.5#



#67
Ethyl Benzene
Concen: 0.202 ug/l
RT: 10.25 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion: 91 Resp: 1730
Ion Ratio Lower Upper
91 100
106 18.6 23.9 35.9#

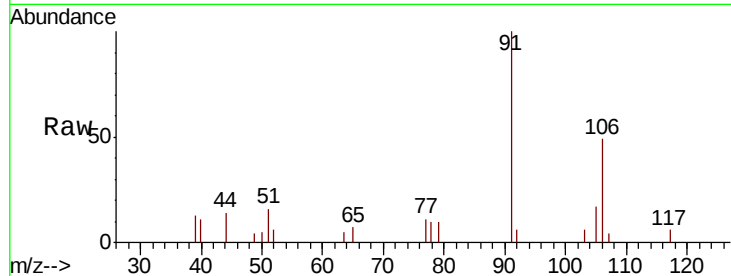




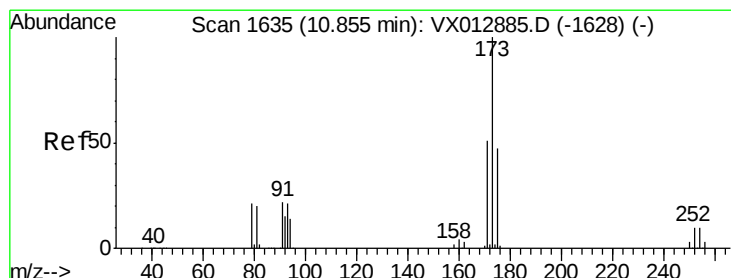
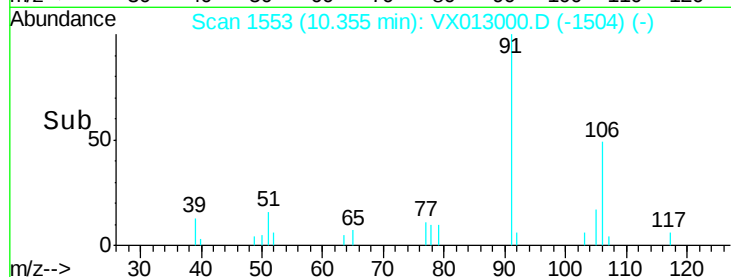
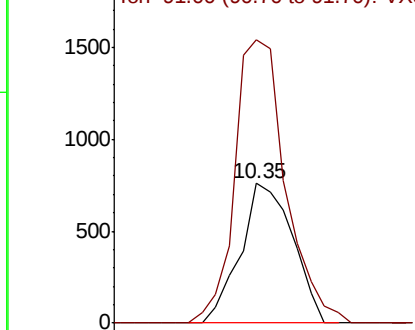
#68
m/p-Xvlenes
Concen: 0.388 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:106 Resp: 1241
Ion Ratio Lower Upper
106 100
91 198.0 165.3 247.9

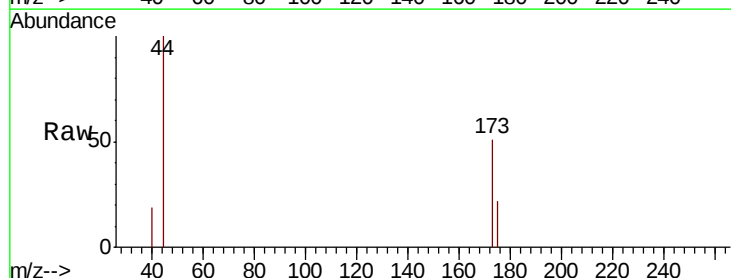


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

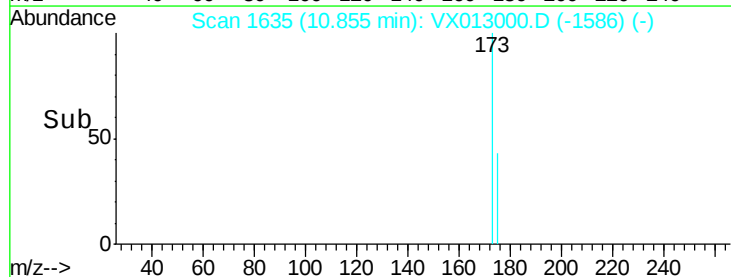
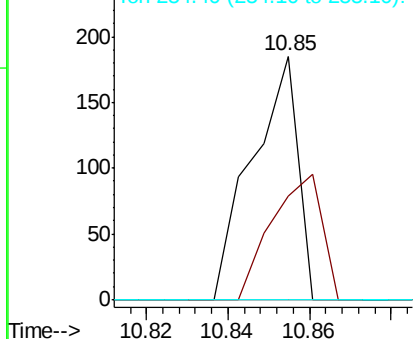


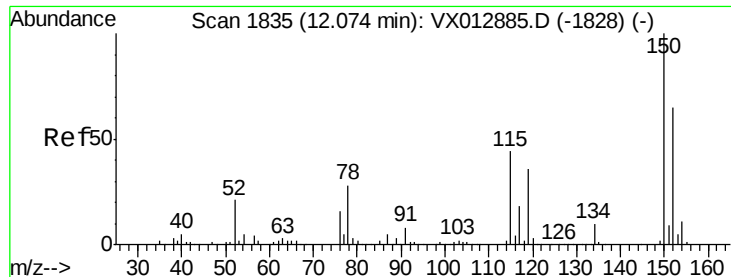
#71
Bromoform
Concen: 3.228 ug/l
RT: 10.85 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion:173 Resp: 145
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

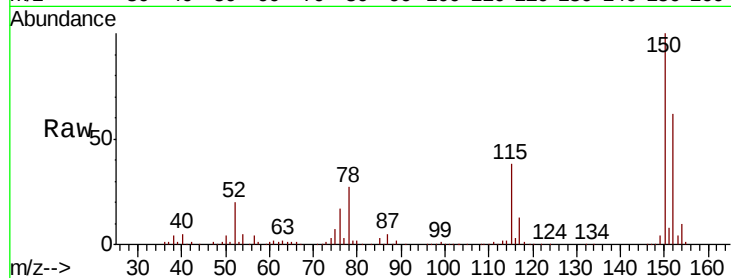
Tot Ion:152 Resp: 100374

Ion Ratio Lower Upper

152 100

115 64.6 44.5 133.5

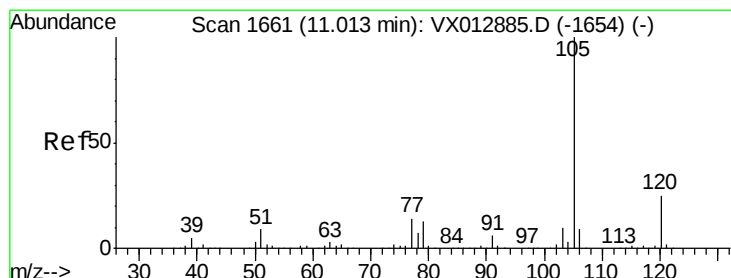
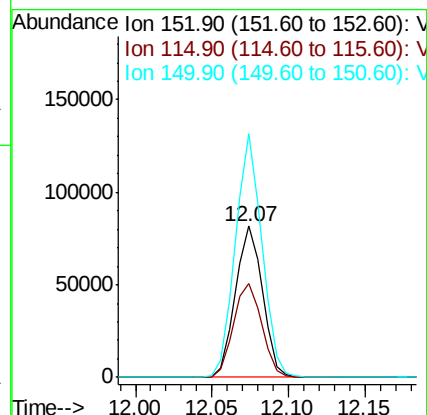
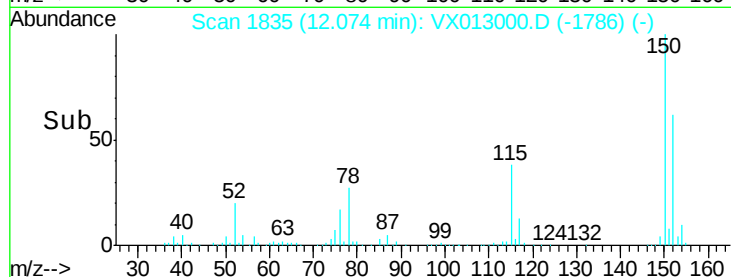
150 157.9 0.0 353.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.221 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013000.D

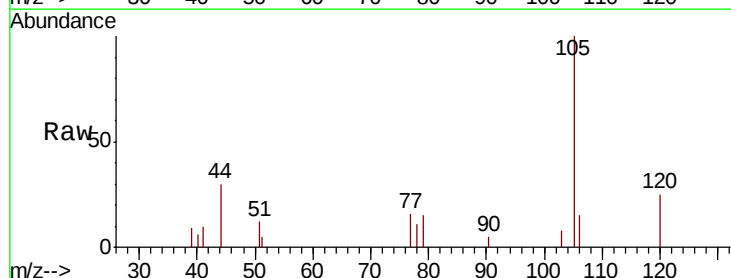
Acq: 10 Oct 2019 16:53

Tgt Ion:105 Resp: 1632

Ion Ratio Lower Upper

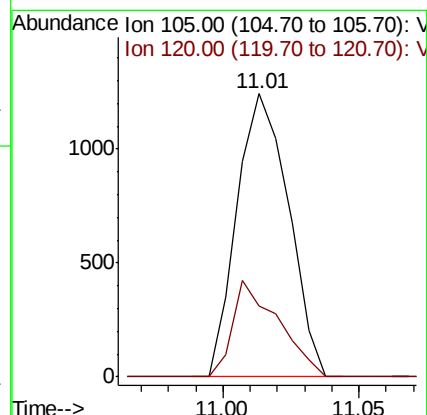
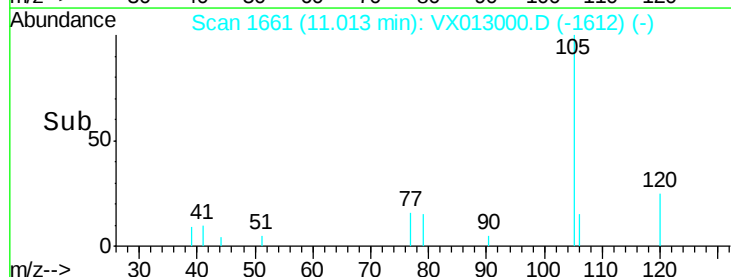
105 100

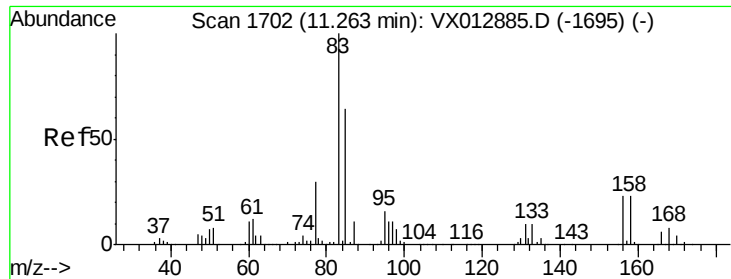
120 30.1 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 0.225 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

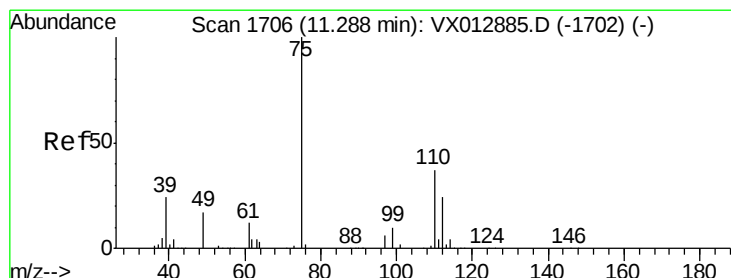
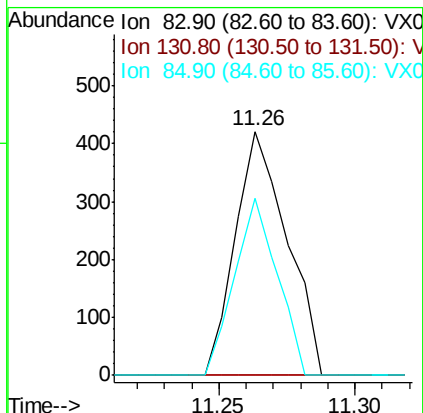
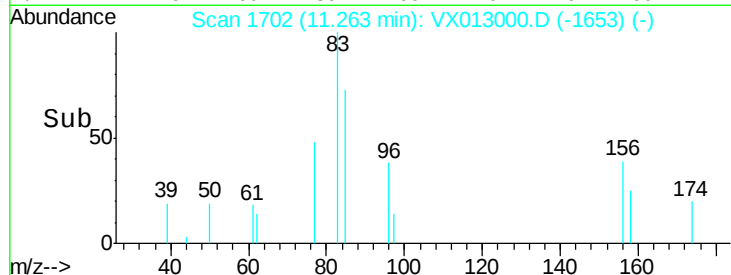
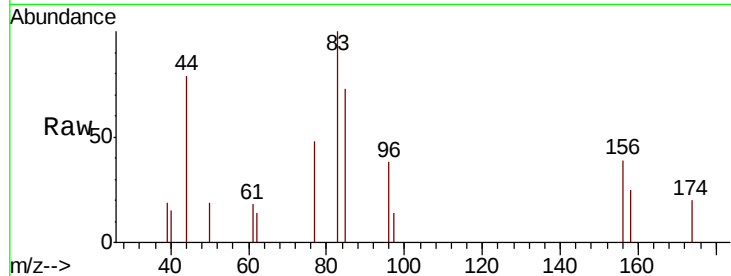
Tot Ion: 83 Resp: 553

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 60.2 32.1 96.5



#76

1,2,3-Trichloropropane

Concen: 23.628 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013000.D

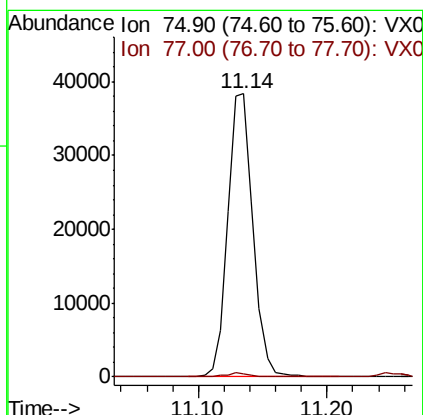
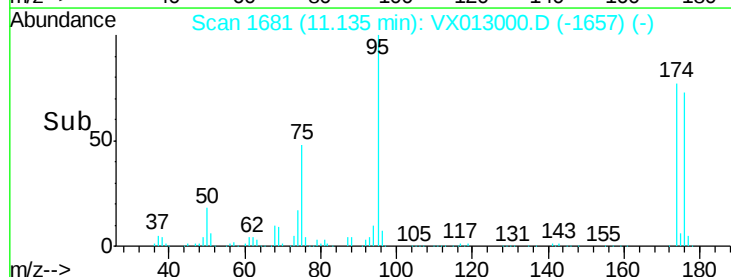
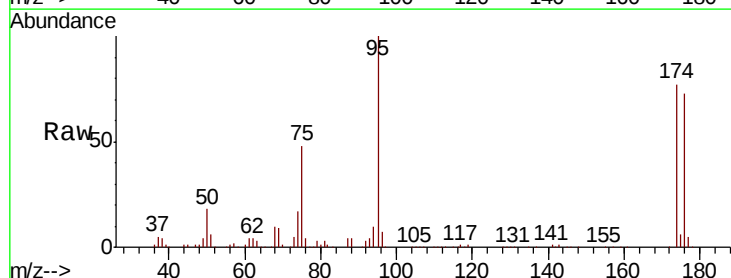
Acq: 10 Oct 2019 16:53

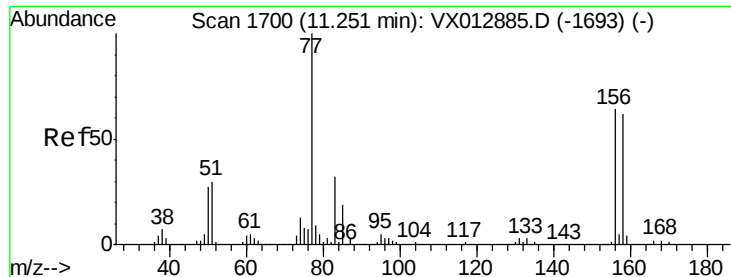
Tgt Ion: 75 Resp: 52602

Ion Ratio Lower Upper

75 100

77 1.4 22.9 68.8#





#77

Bromobenzene

Concen: 0.271 ug/l

RT: 11.26 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

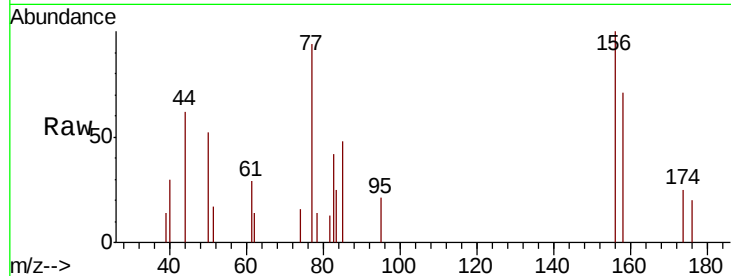
Tot Ion:156 Resp: 472

Ion Ratio Lower Upper

156 100

77 134.5 83.7 251.0

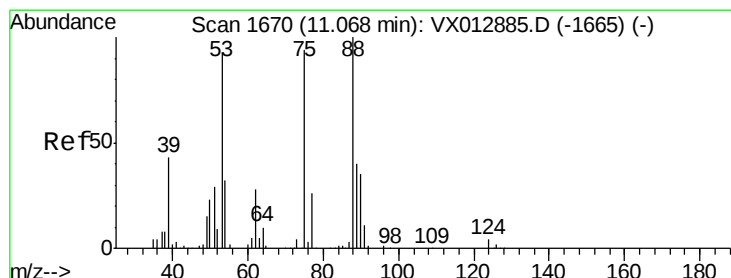
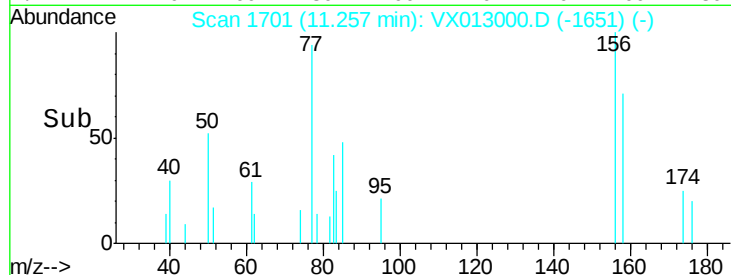
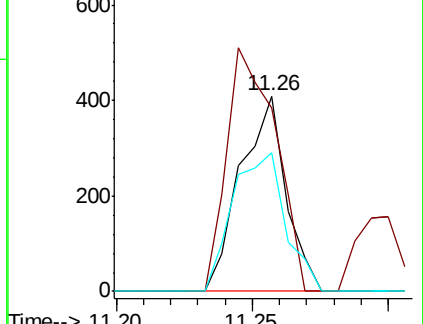
158 82.6 48.6 145.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 59.879 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013000.D

Acq: 10 Oct 2019 16:53

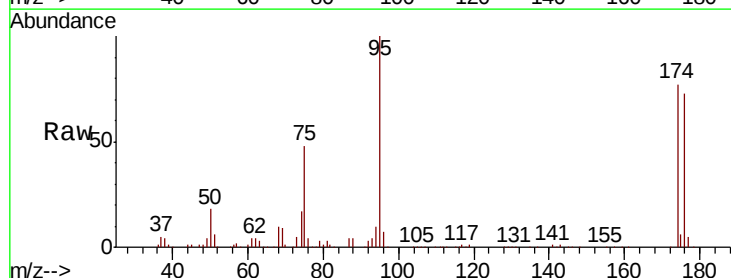
Tgt Ion: 75 Resp: 52602

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

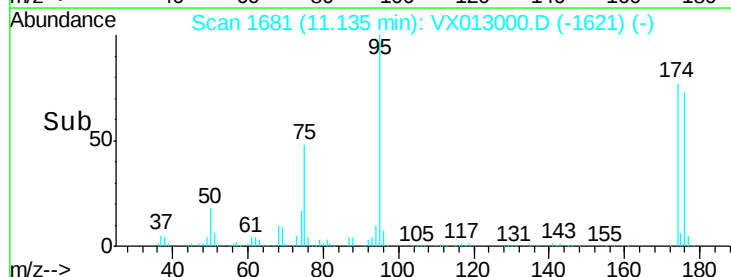
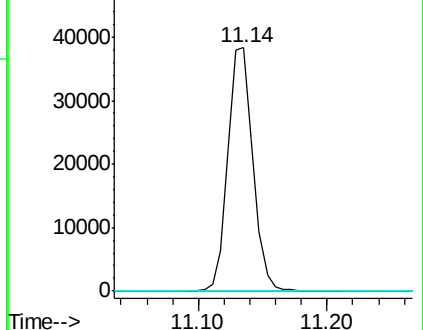
89 0.0 37.4 56.2#

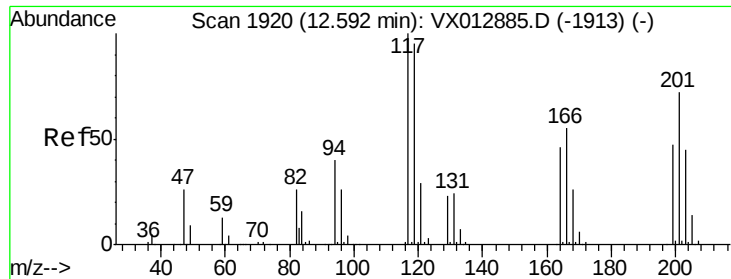


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

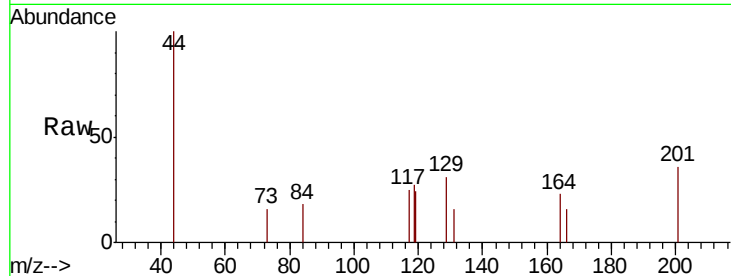




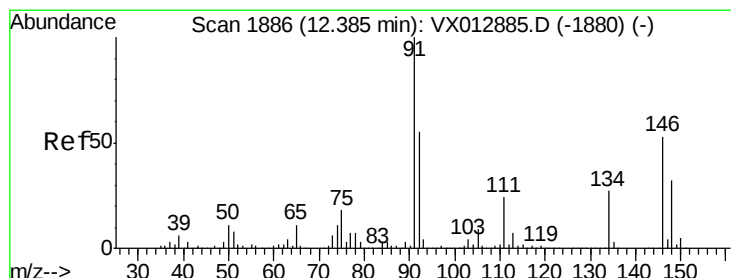
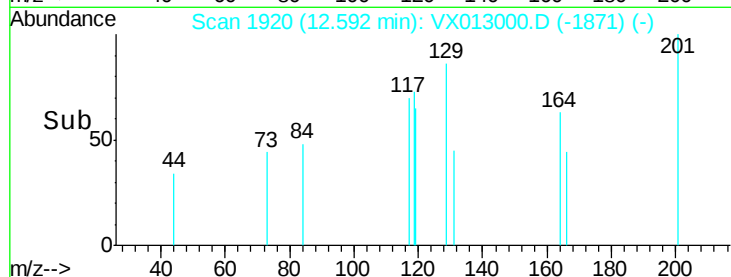
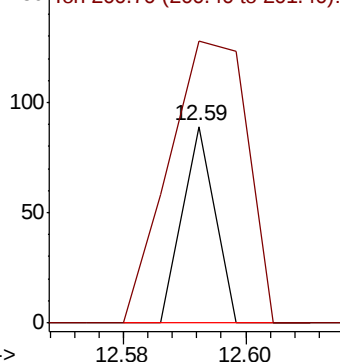
#90
Hexachloroethane
Concen: 2.145 ug/l
RT: 12.59 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:117 Resp: 33
Ion Ratio Lower Upper
117 100
201 342.4 36.9 110.7#

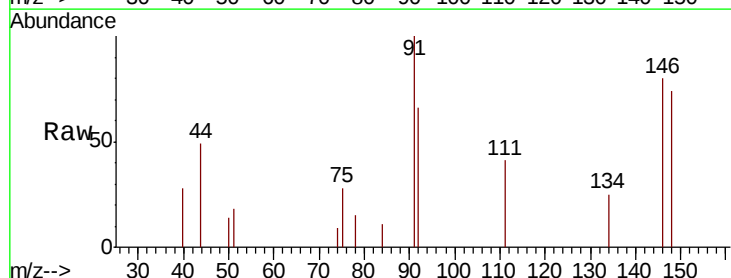


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V



#91
1,2-Dichlorobenzene
Concen: 0.222 ug/l
RT: 12.39 min Scan# 1887
Delta R.T. 0.01 min
Lab File: VX013000.D
Acq: 10 Oct 2019 16:53

Tgt Ion:146 Resp: 704
Ion Ratio Lower Upper
146 100
111 46.4 22.7 68.0
148 69.7 31.6 94.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

