

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017540.D
 Acq On : 24 Jul 2020 14:13
 Operator : JC/SP
 Sample : L3378-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DRUM-WATER

Quant Time: Jul 25 01:49:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	480219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	767934	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	774262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	463337	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	311782	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
35) Dibromofluoromethane	5.48	113	264360	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
50) Toluene-d8	8.70	98	937481	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	11.12	95	401039	54.09	ug/l	0.00
Spiked Amount			Recovery	=	108.18%	

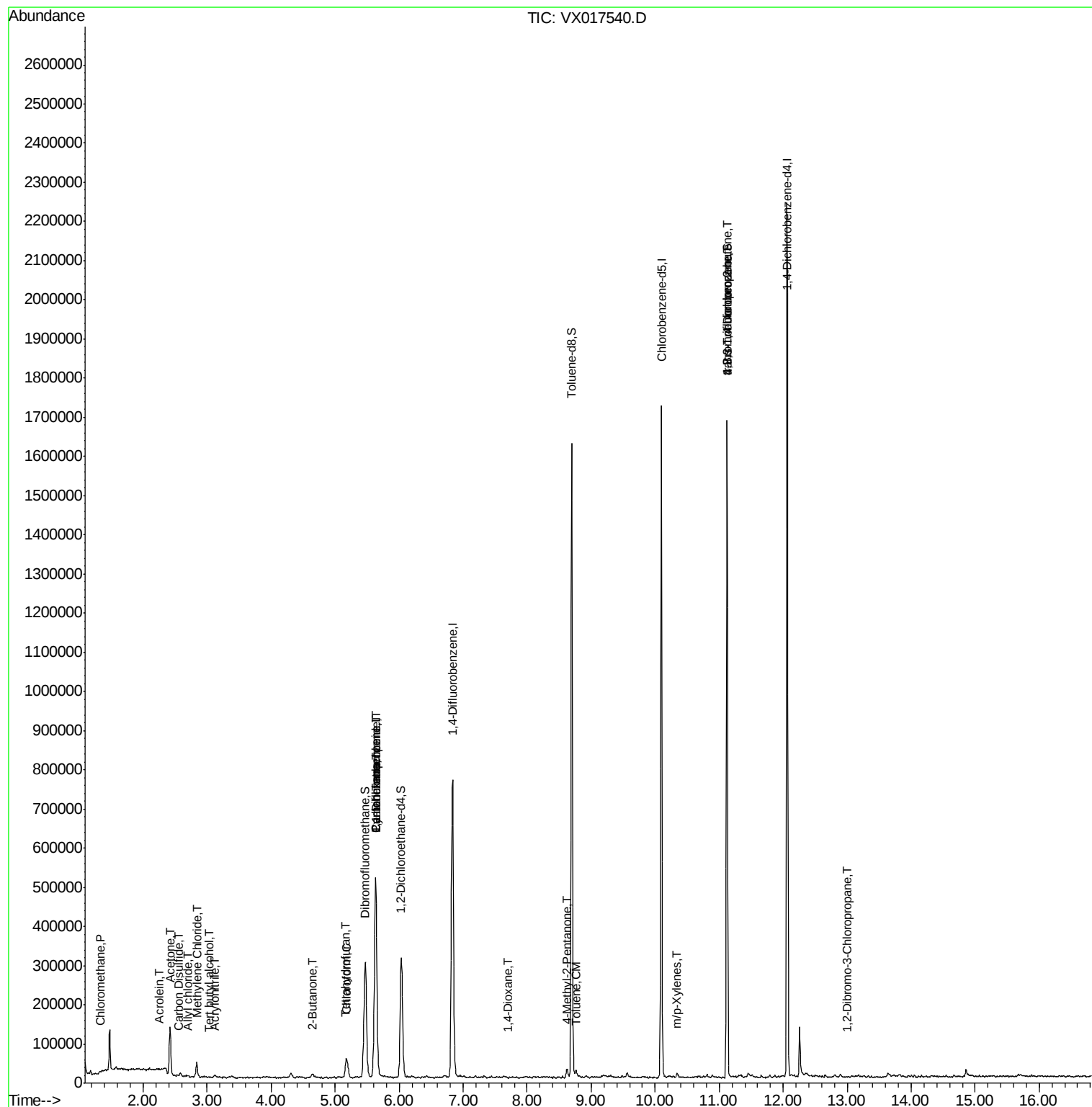
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	466	Below Cal		95
3) Chloromethane	1.32	50	2317	0.754 ug/l		97
5) Bromomethane	1.62	94	269	Below Cal	#	52
6) Chloroethane	1.70	64	207	Below Cal	#	44
8) Diethyl Ether	2.18	74	547	Below Cal		63
11) Tert butyl alcohol	3.02	59	766	0.589 ug/l	#	1
13) Acrolein	2.25	56	358	4.503 ug/l	#	1
14) Allyl chloride	2.69	41	2891	0.319 ug/l	#	82
15) Acrylonitrile	3.12	53	2845	1.013 ug/l	#	78
16) Acetone	2.42	43	131425	48.406 ug/l		97
17) Carbon Disulfide	2.55	76	3375	0.224 ug/l	#	93
20) Methylene Chloride	2.84	84	17206	2.136 ug/l	#	91
25) 2-Butanone	4.64	43	16136	4.184 ug/l		99
29) Tetrahydrofuran	5.16	42	853	0.357 ug/l		96
30) Chloroform	5.17	83	59113	6.064 ug/l		99
31) Cyclohexane	5.63	56	9501	1.249 ug/l	#	1
36) 1,1-Dichloropropene	5.63	75	37061	5.032 ug/l	#	50
38) Carbon Tetrachloride	5.63	117	49177	5.498 ug/l	#	16
49) 1,4-Dioxane	7.70	88	123	0.973 ug/l	#	1
51) 4-Methyl-2-Pentanone	8.62	43	14398	1.815 ug/l		90
52) Toluene	8.77	92	4631	0.342 ug/l		93
68) m/p-Xylenes	10.34	106	2305	0.213 ug/l		99
76) 1,2,3-Trichloropropane	11.12	75	207196	21.739 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.12	75	207196	54.778 ug/l	#	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	269	2.668 ug/l	#	1

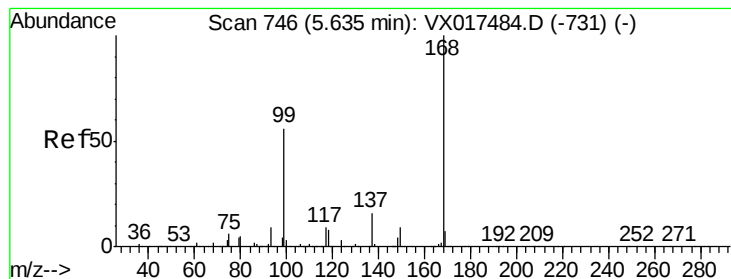
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 25 01:49:48 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

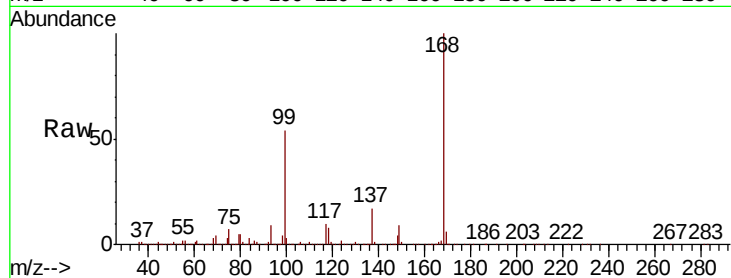
DRUM-WATER

Tot Ion:168 Resp: 480219

Ion Ratio Lower Upper

168 100

99 54.2 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

100000

50000

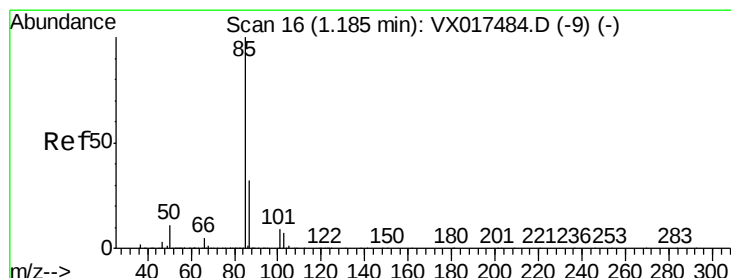
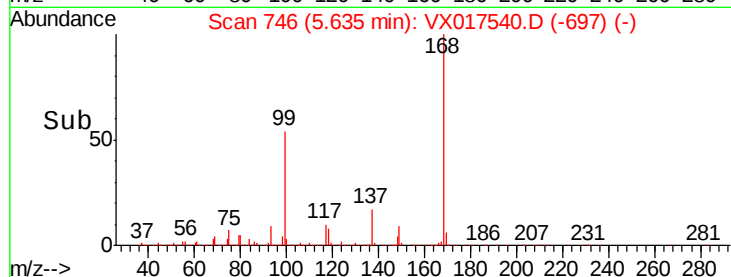
0

Time-->

5.50

5.60

5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017540.D

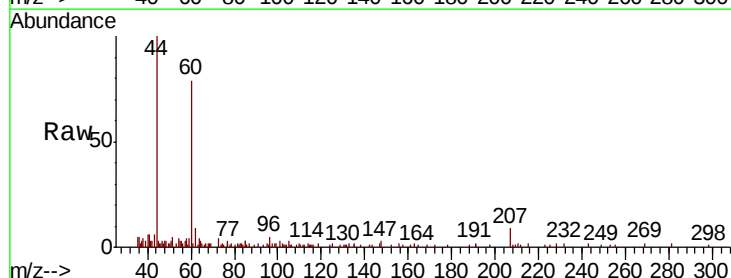
Acq: 24 Jul 2020 14:13

Tgt Ion: 85 Resp: 466

Ion Ratio Lower Upper

85 100

87 34.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

400

300

200

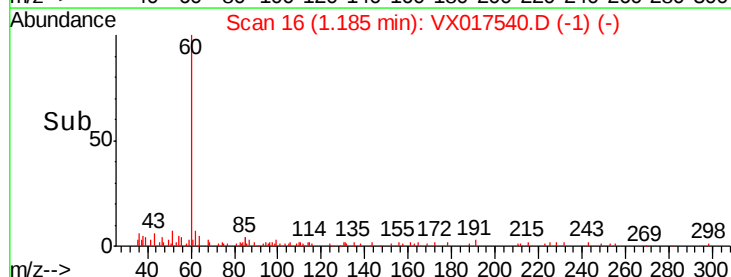
100

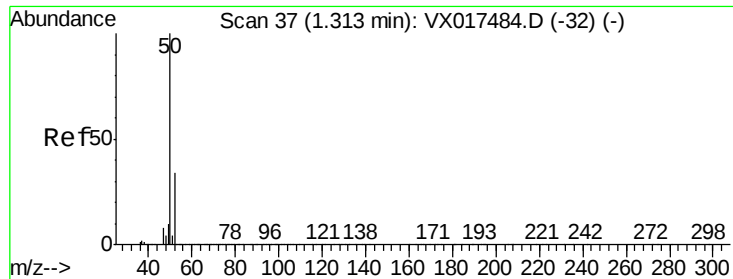
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Time-->

1.15

1.20





#3

Chloromethane

Concen: 0.754 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

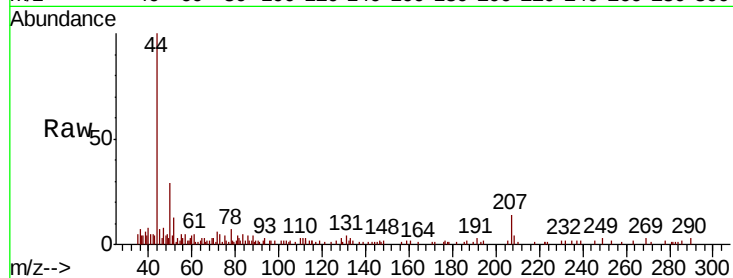
DRUM-WATER

Tot Ion: 50 Resp: 2317

Ion Ratio Lower Upper

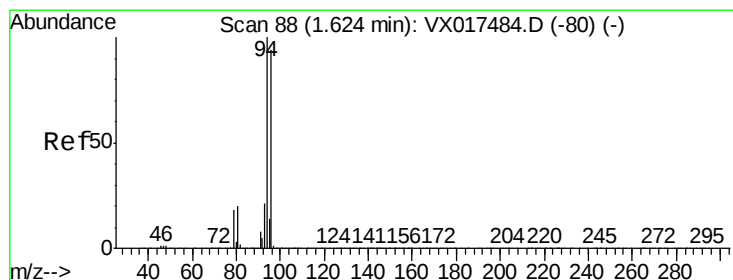
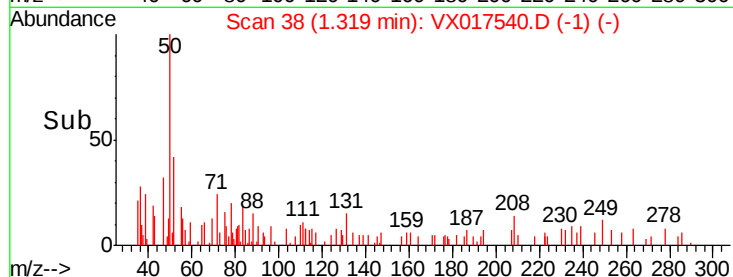
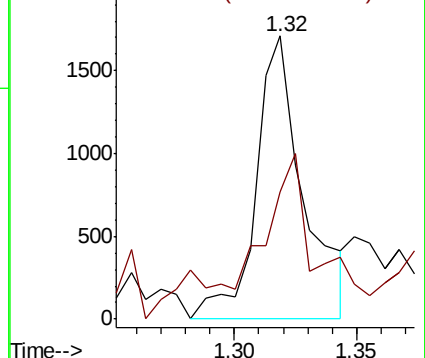
50 100

52 30.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX017540.D

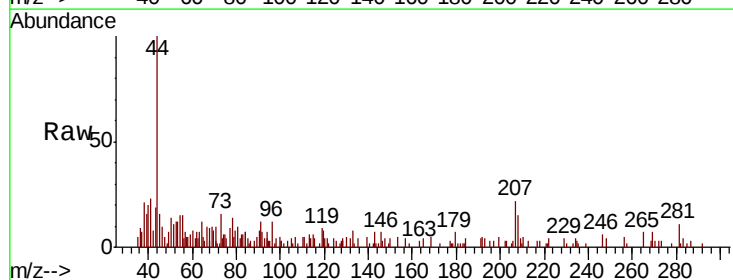
Acq: 24 Jul 2020 14:13

Tgt Ion: 94 Resp: 269

Ion Ratio Lower Upper

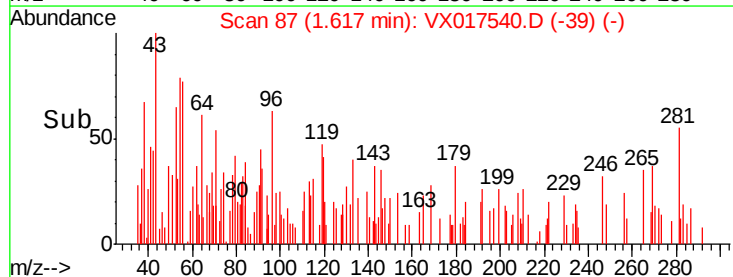
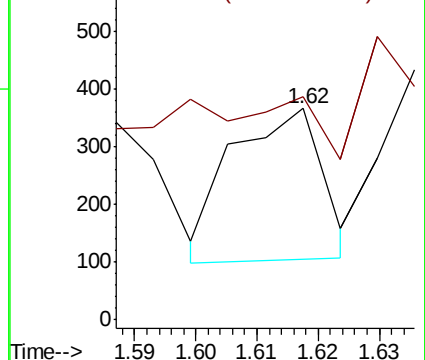
94 100

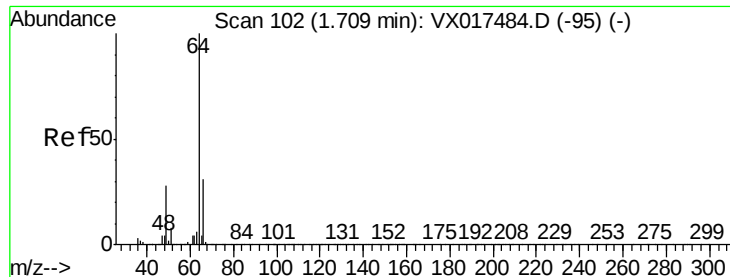
96 46.7 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

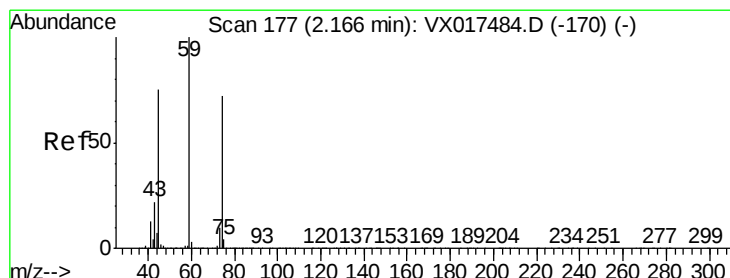
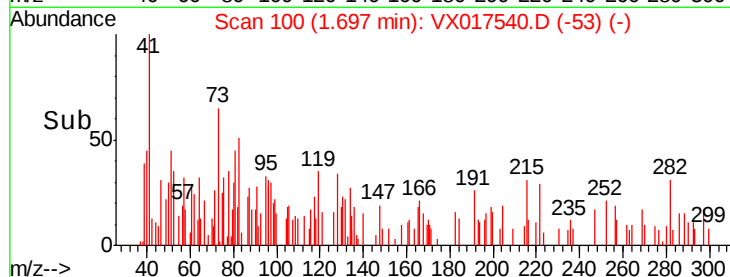
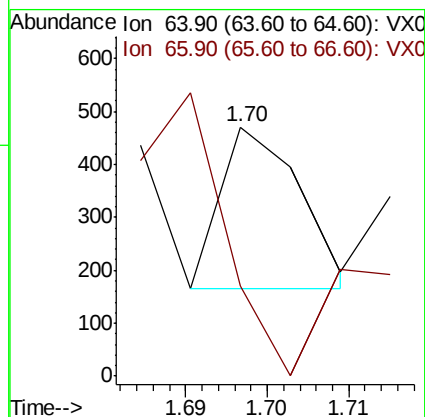
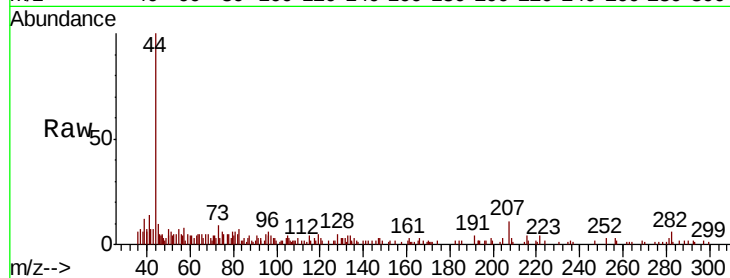
DRUM-WATER

Tot Ion: 64 Resp: 207

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 180

Delta R.T. 0.02 min

Lab File: VX017540.D

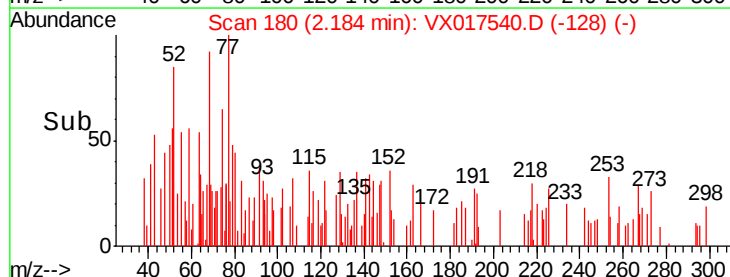
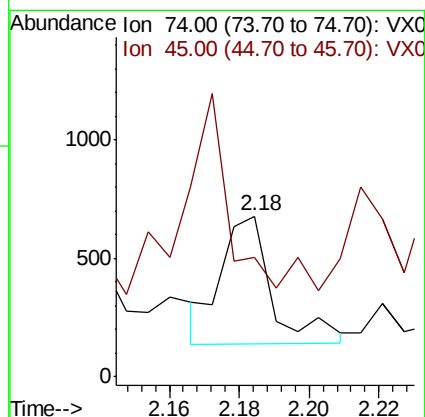
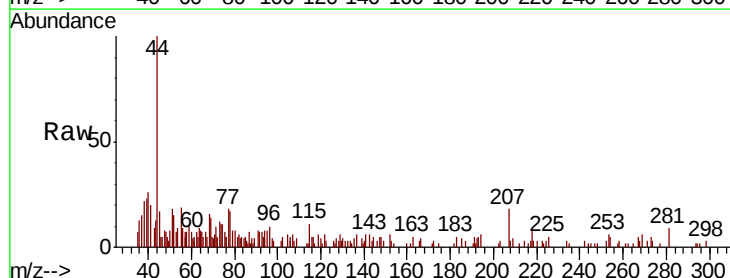
Acq: 24 Jul 2020 14:13

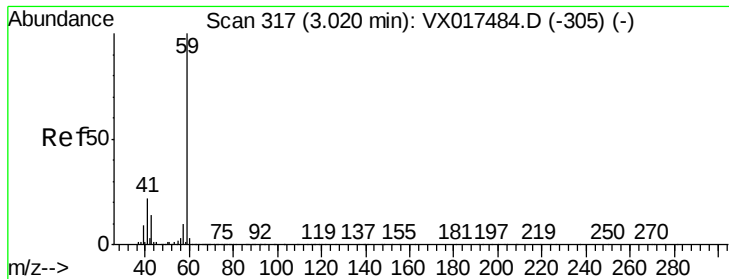
Tgt Ion: 74 Resp: 547

Ion Ratio Lower Upper

74 100

45 139.1 50.8 152.5



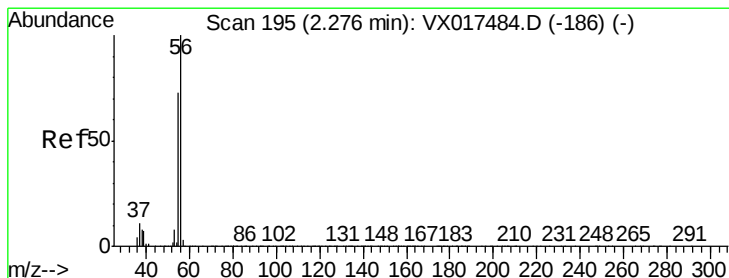
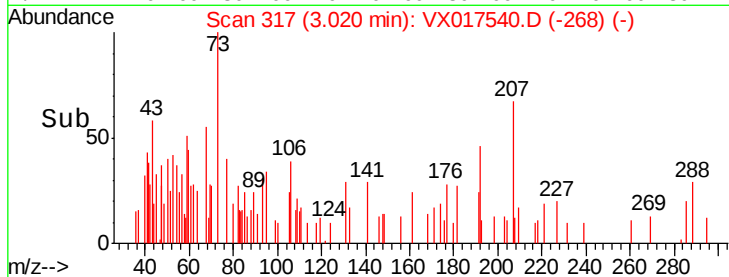
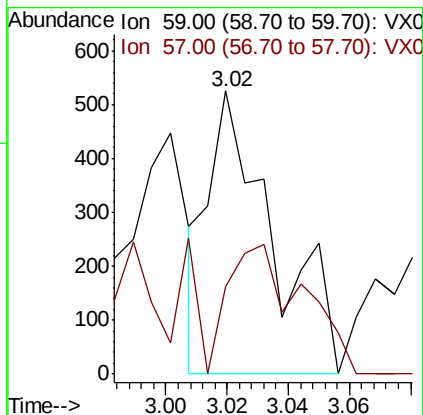
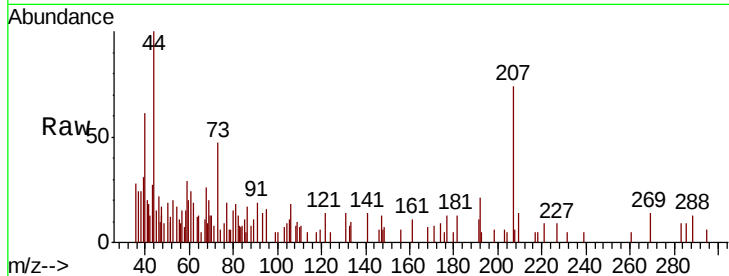


#11

Tert butyl alcohol
 Concen: 0.589 ug/l
 RT: 3.02 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VX017540.D
 Acq: 24 Jul 2020 14:13

Instrument :
 MSVOA_X
 ClientSampled :
 DRUM-WATER

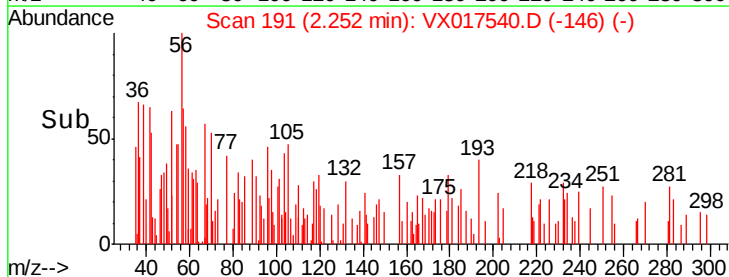
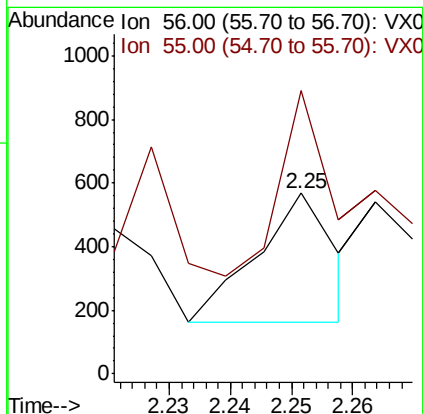
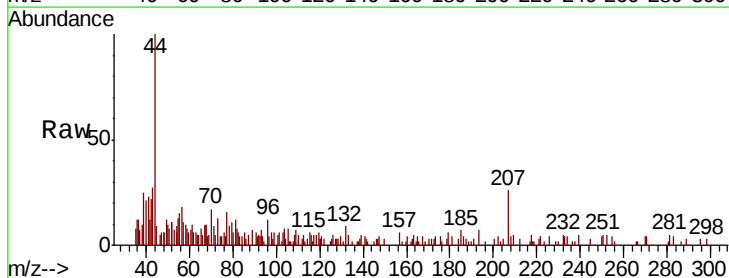
Tot Ion: 59 Resp: 766
 Ion Ratio Lower Upper
 59 100
 57 53.4 8.6 12.8#

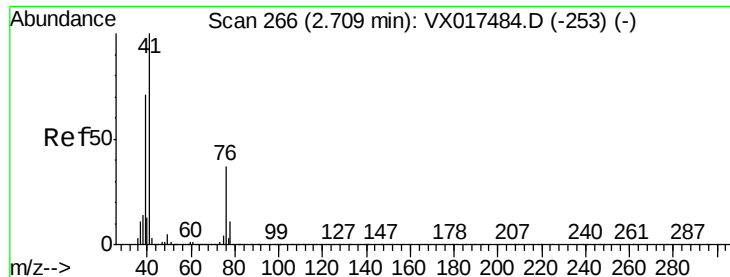


#13

Acrolein
 Concen: 4.503 ug/l
 RT: 2.25 min Scan# 191
 Delta R.T. -0.02 min
 Lab File: VX017540.D
 Acq: 24 Jul 2020 14:13

Tgt Ion: 56 Resp: 358
 Ion Ratio Lower Upper
 56 100
 55 173.2 57.4 86.2#





#14

Allvl chloride

Concen: 0.319 ug/l

RT: 2.69 min Scan# 263

Delta R.T. -0.02 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

DRUM-WATER

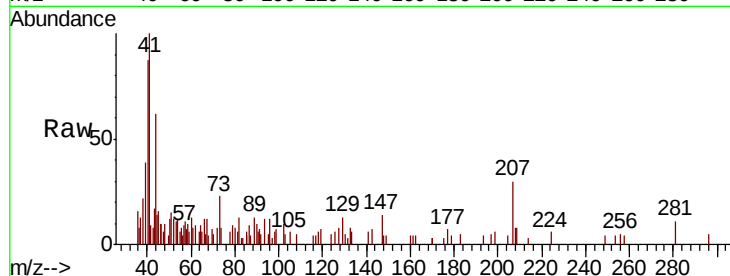
Tot Ion: 41 Resp: 2891

Ion Ratio Lower Upper

41 100

39 59.5 51.9 77.9

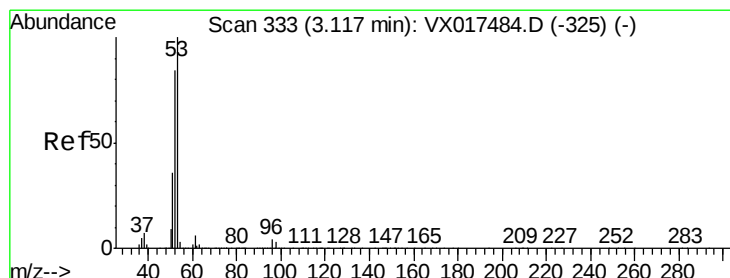
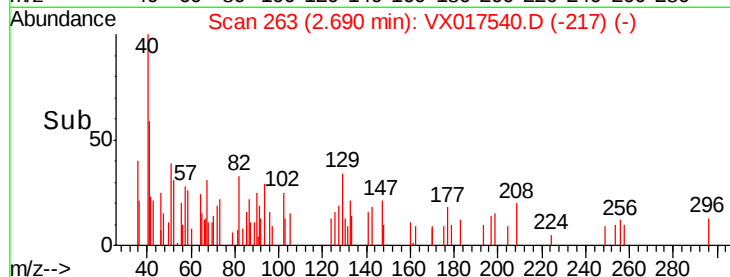
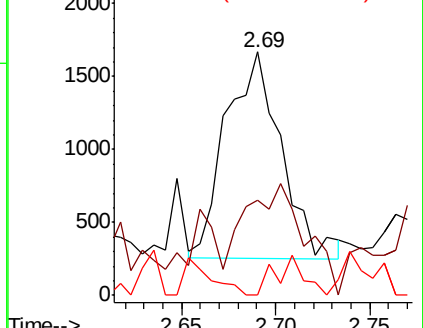
76 9.7 25.5 38.3#



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: 1.013 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

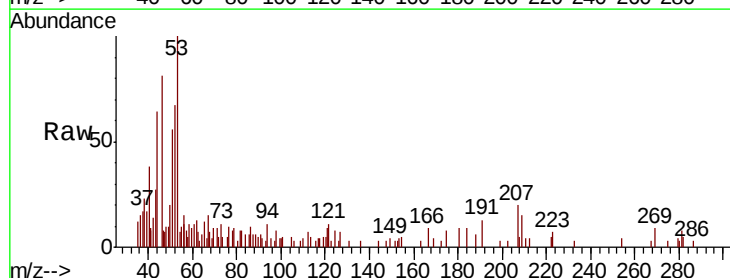
Tgt Ion: 53 Resp: 2845

Ion Ratio Lower Upper

53 100

52 97.8 66.6 99.8

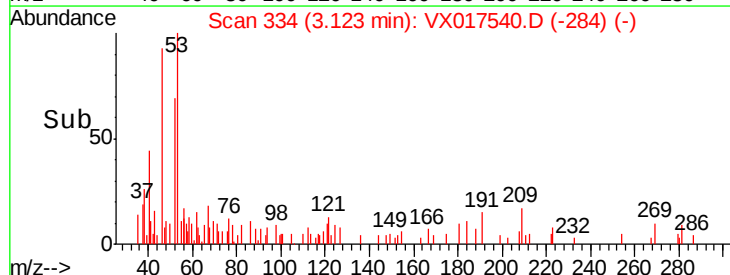
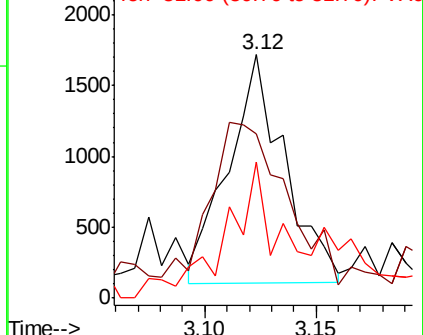
51 58.2 29.4 44.2#

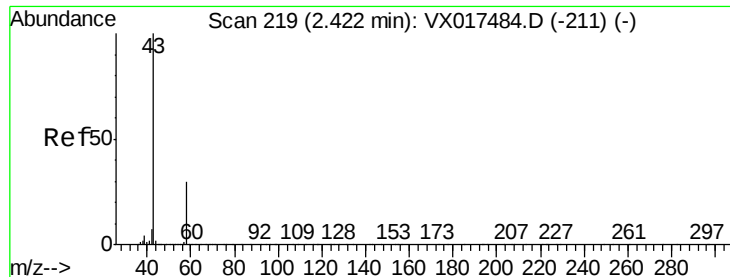


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 48.406 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

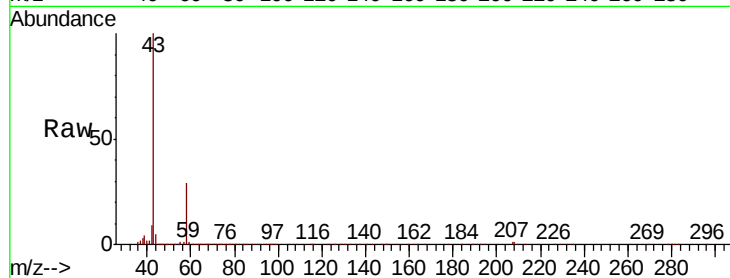
DRUM-WATER

Tot Ion: 43 Resp: 131425

Ion Ratio Lower Upper

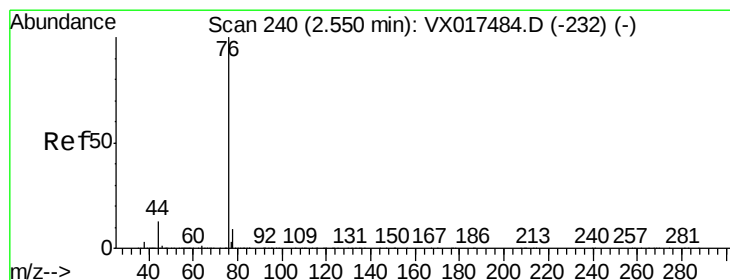
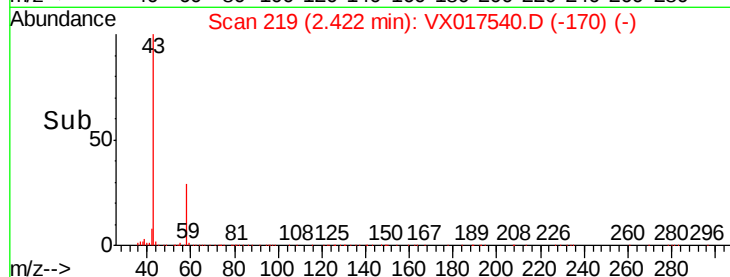
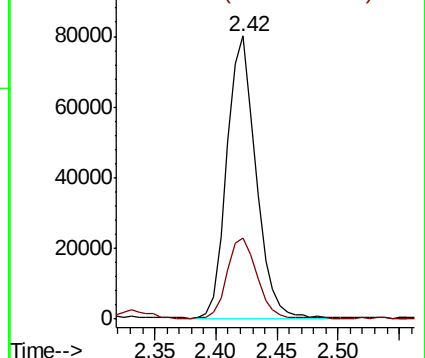
43 100

58 28.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017540.D

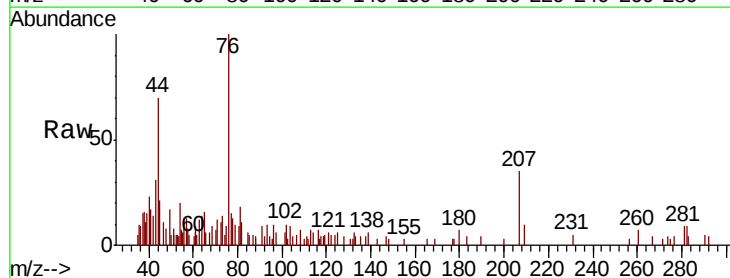
Acq: 24 Jul 2020 14:13

Tgt Ion: 76 Resp: 3375

Ion Ratio Lower Upper

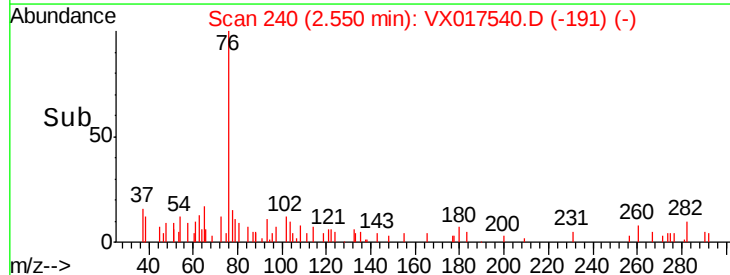
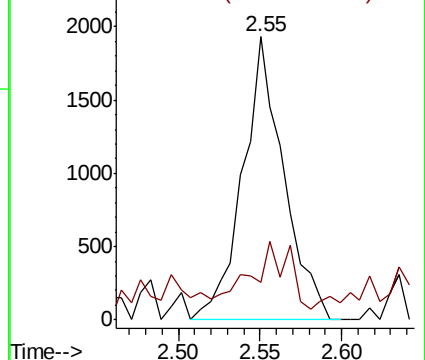
76 100

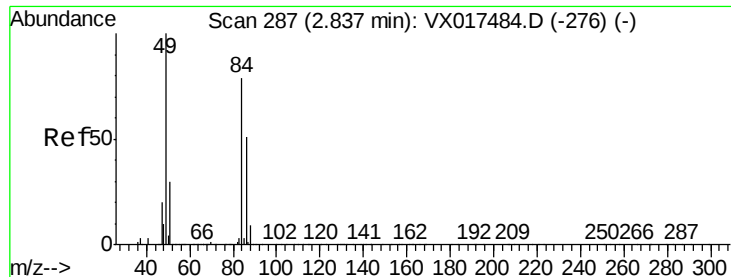
78 7.0 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

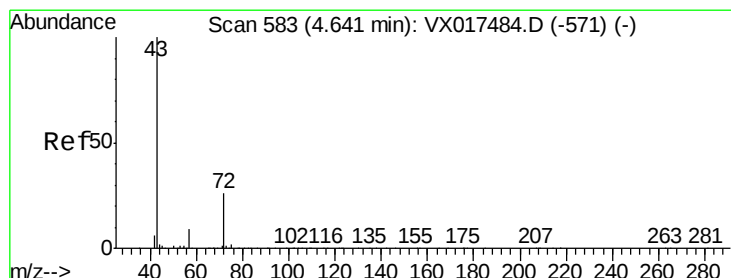
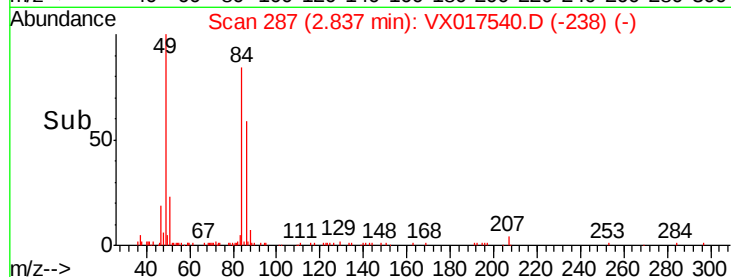
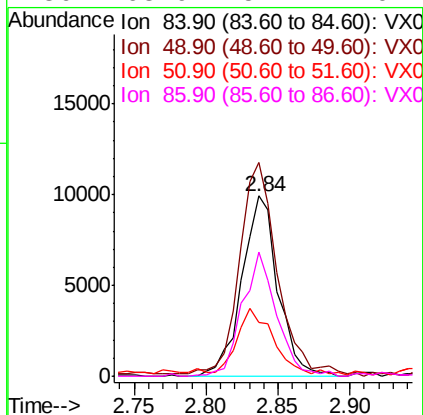
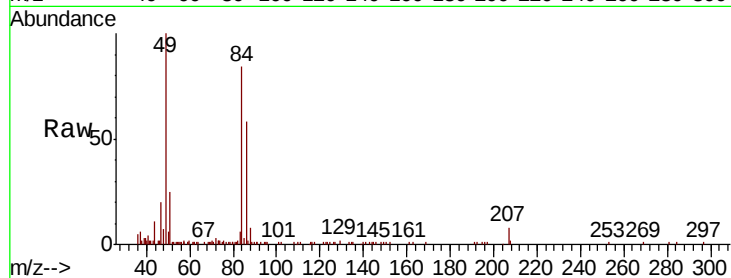




#20
Methvlene Chloride
Concen: 2.136 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

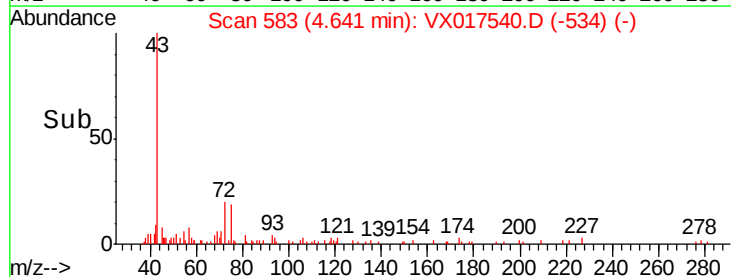
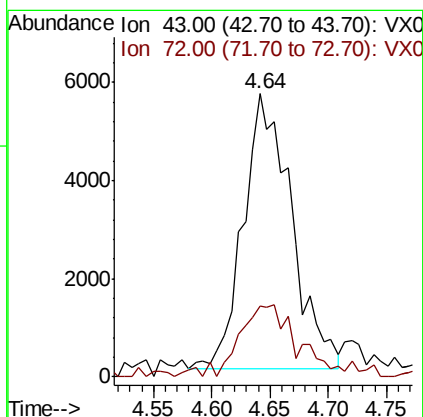
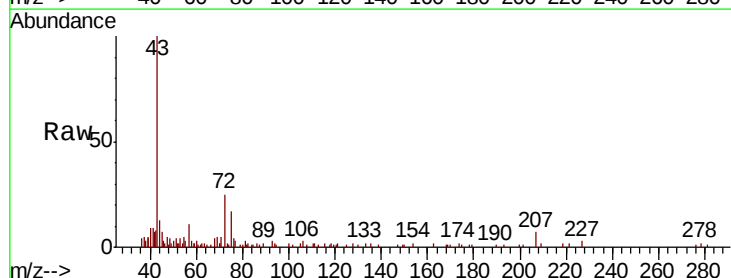
Instrument :
MSVOA_X
ClientSampleId :
DRUM-WATER

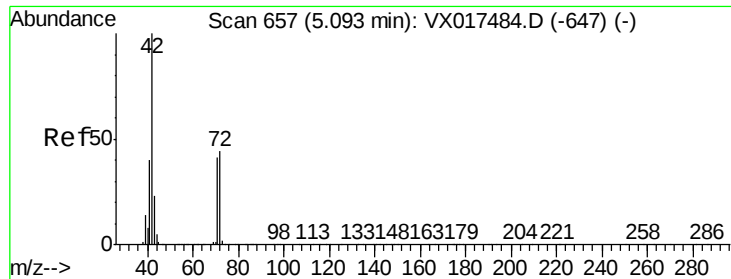
Tot Ion: 84 Resp: 17206
Ion Ratio Lower Upper
84 100
49 115.4 100.3 150.5
51 27.7 30.5 45.7#
86 68.9 51.1 76.7



#25
2-Butanone
Concen: 4.184 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

Tgt Ion: 43 Resp: 16136
Ion Ratio Lower Upper
43 100
72 23.3 19.0 28.4

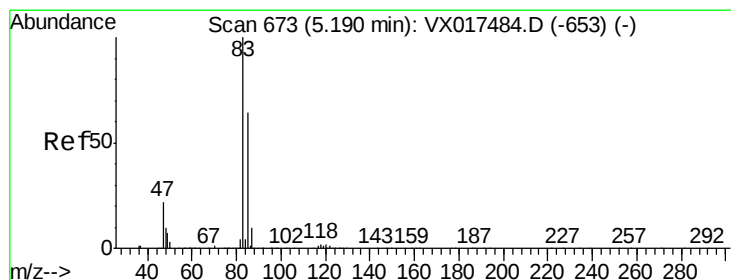
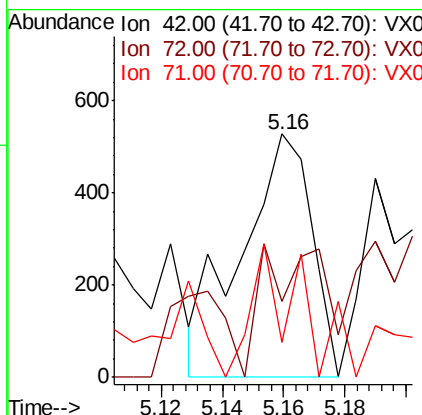
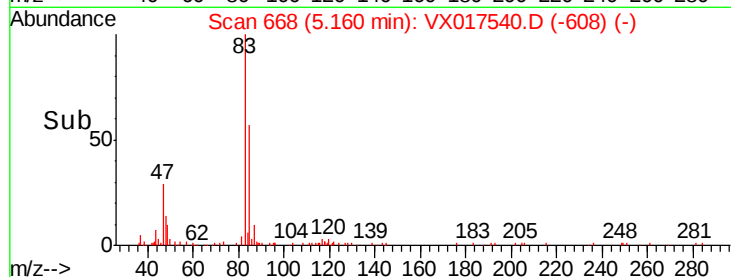
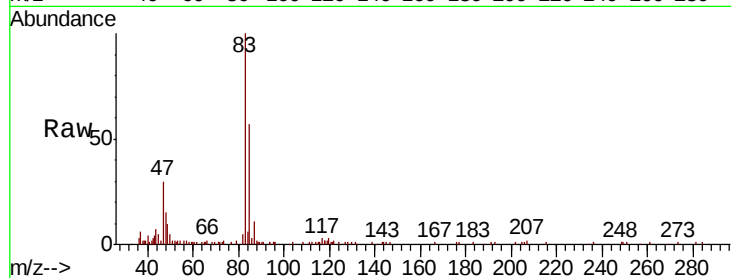




#29
Tetrahydrofuran
Concen: 0.357 ug/l
RT: 5.16 min Scan# 668
Delta R.T. 0.07 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

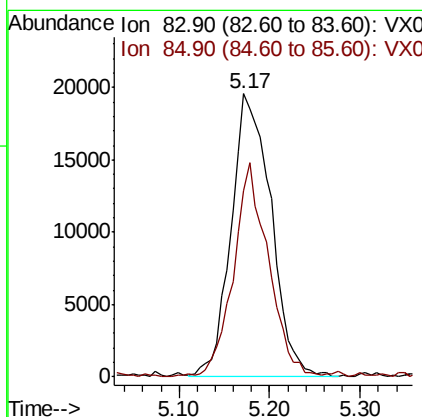
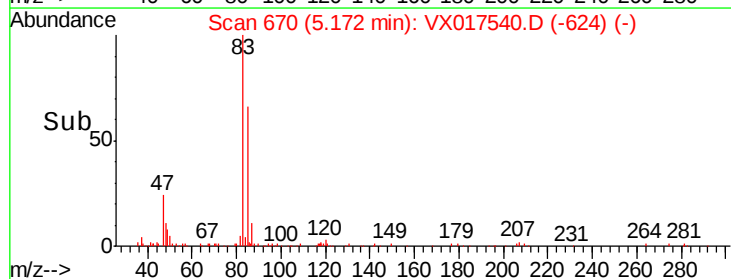
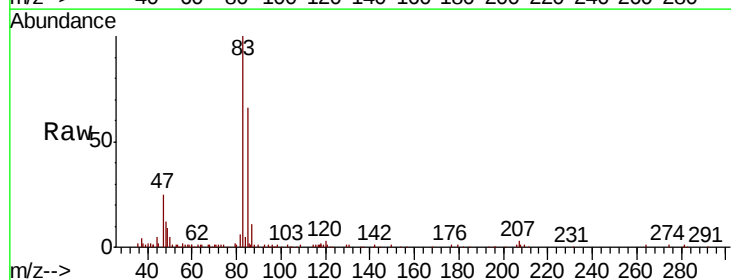
Instrument :
MSVOA_X
ClientSampleId :
DRUM-WATER

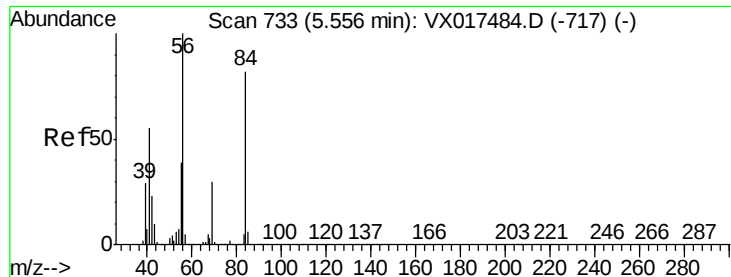
Tot Ion: 42 Resp: 853
Ion Ratio Lower Upper
42 100
72 46.5 35.5 53.3
71 38.1 33.0 49.4



#30
Chloroform
Concen: 6.064 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.02 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

Tgt Ion: 83 Resp: 59113
Ion Ratio Lower Upper
83 100
85 64.7 51.4 77.2

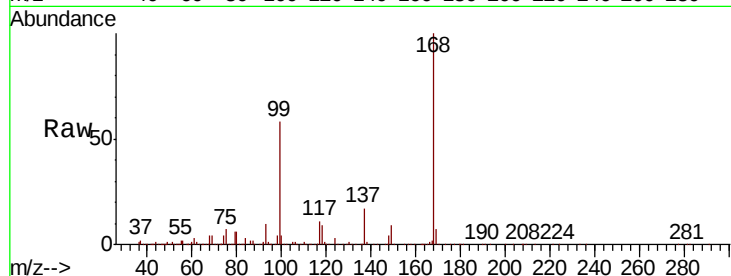




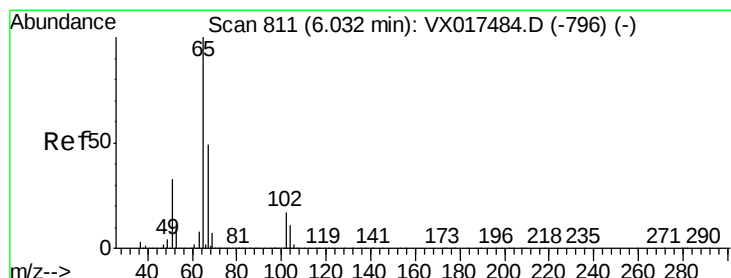
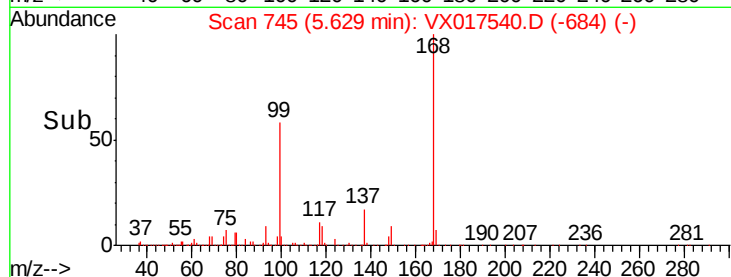
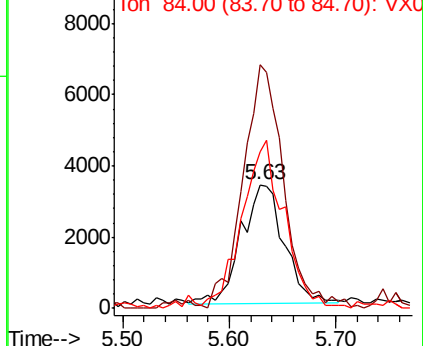
#31
Cyclohexane
Concen: 1.249 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.07 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

Instrument :
MSVOA_X
ClientSampleId :
DRUM-WATER

Tot Ion: 56 Resp: 9501
Ion Ratio Lower Upper
56 100
69 199.5 24.2 36.4#
84 129.2 69.0 103.6#

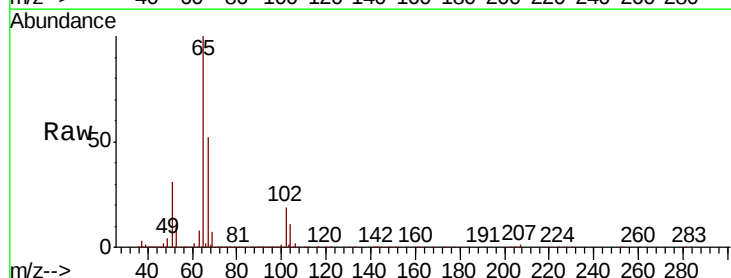


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

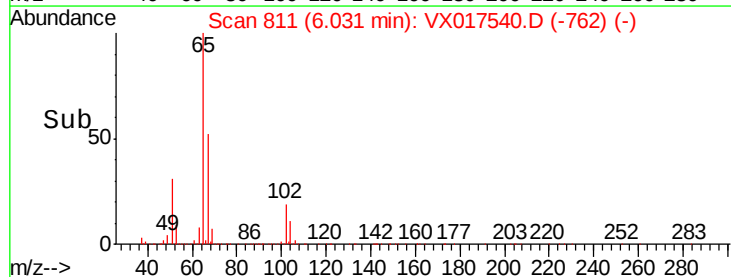
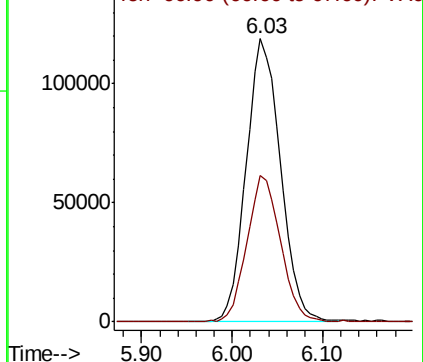


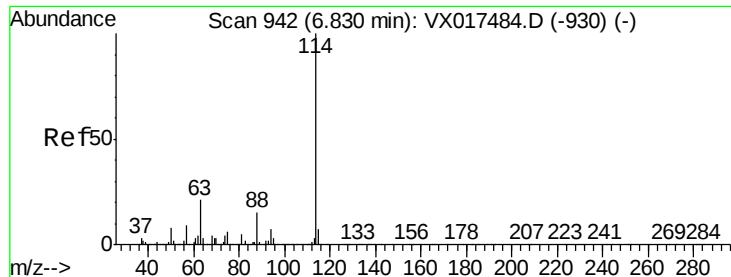
#33
1,2-Dichloroethane-d4
Concen: 50.543 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

Tgt Ion: 65 Resp: 311782
Ion Ratio Lower Upper
65 100
67 50.5 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

DRUM-WATER

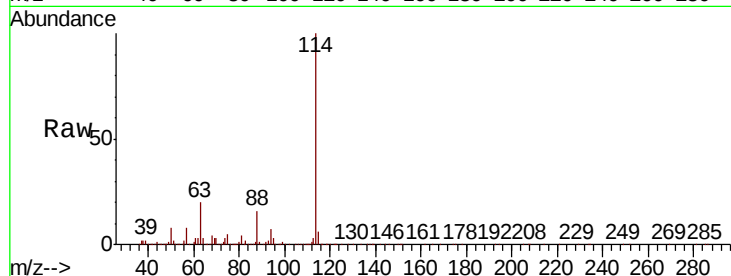
Tot Ion:114 Resp: 767934

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.6

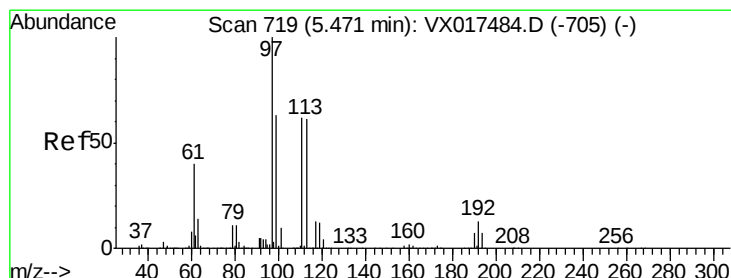
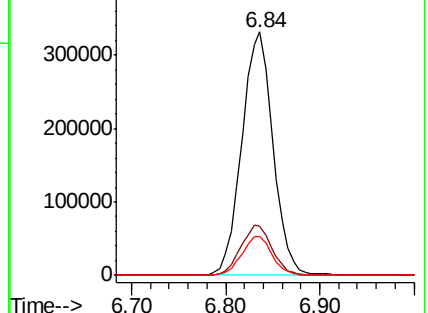
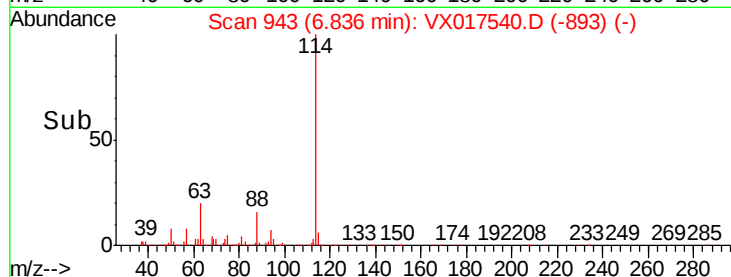
88 15.7 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.472 ug/l

RT: 5.48 min Scan# 720

Delta R.T. 0.01 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

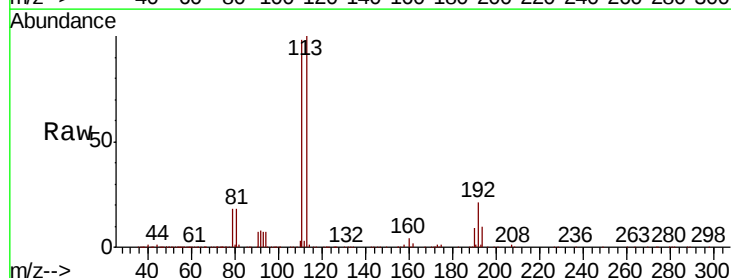
Tgt Ion:113 Resp: 264360

Ion Ratio Lower Upper

113 100

111 99.5 80.7 121.1

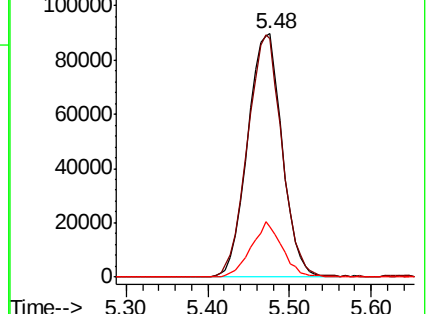
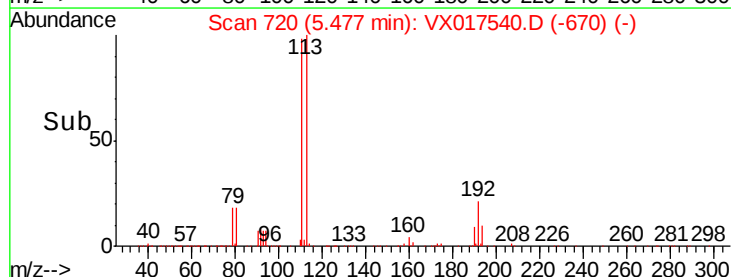
192 20.5 16.9 25.3

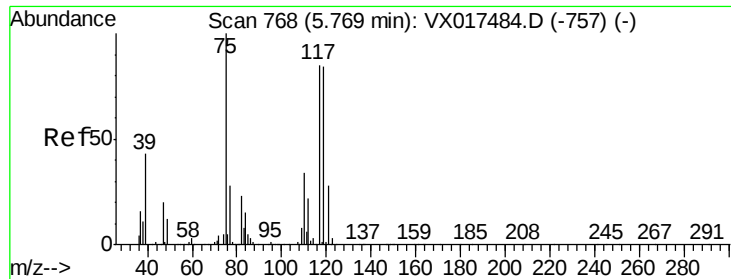


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.032 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

DRUM-WATER

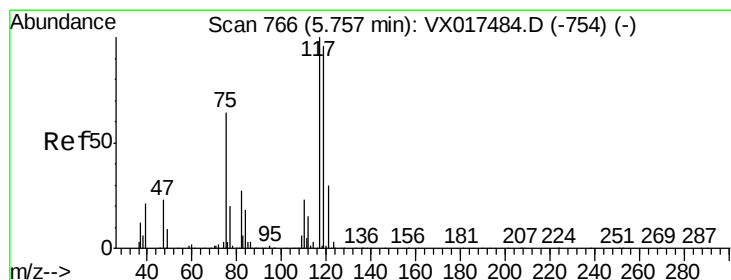
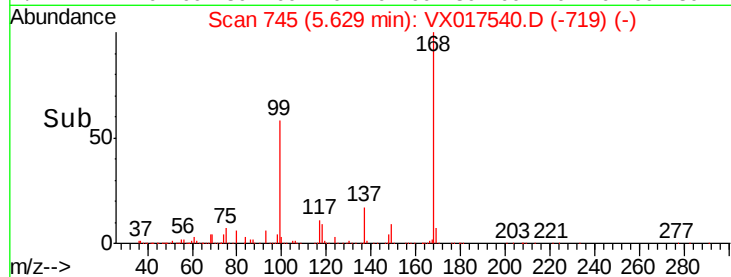
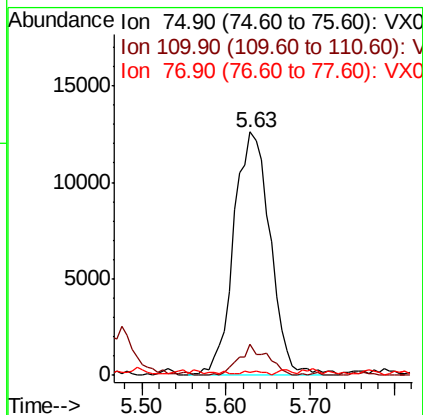
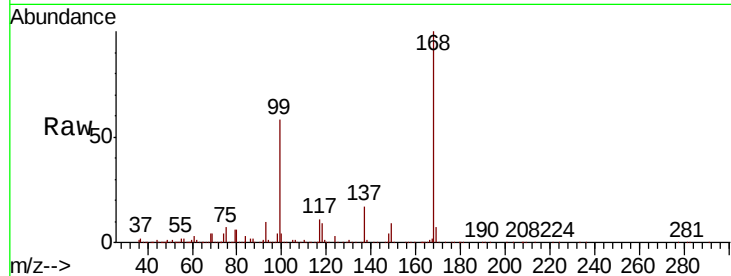
Tot Ion: 75 Resp: 37061

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.3#

77 0.2 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.498 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

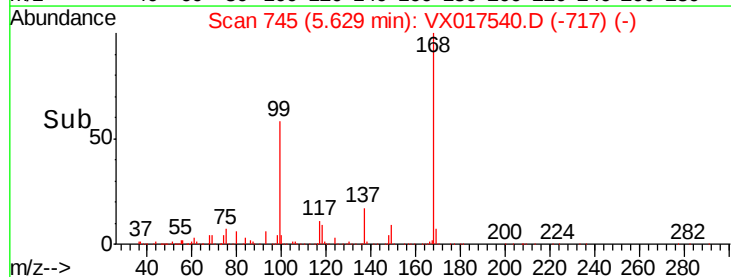
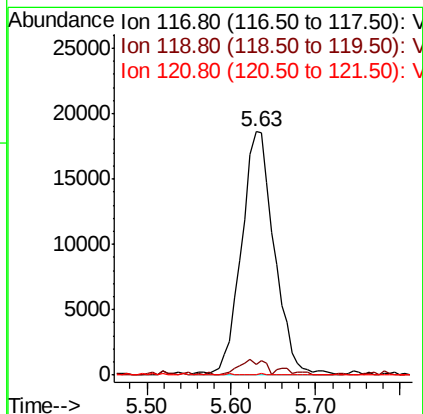
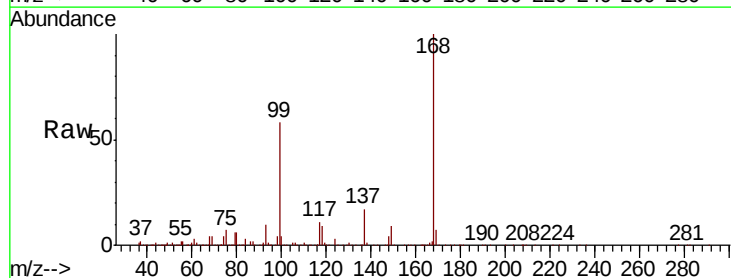
Tgt Ion: 117 Resp: 49177

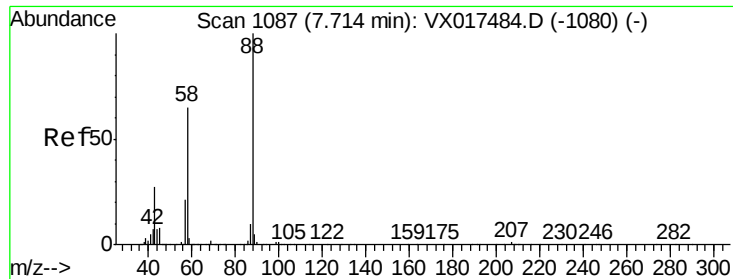
Ion Ratio Lower Upper

117 100

119 4.1 75.4 113.0#

121 0.3 24.3 36.5#

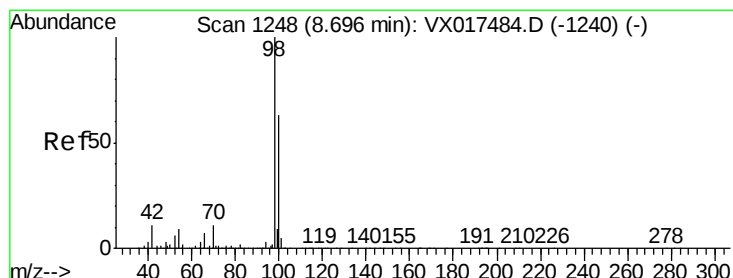
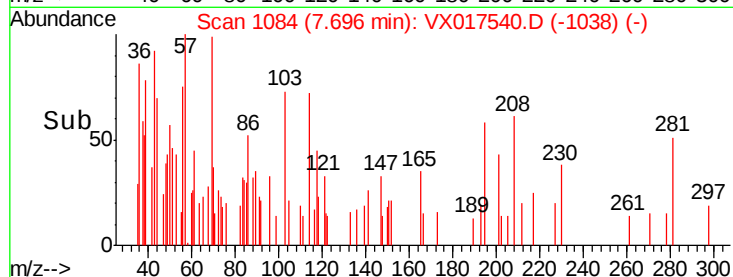
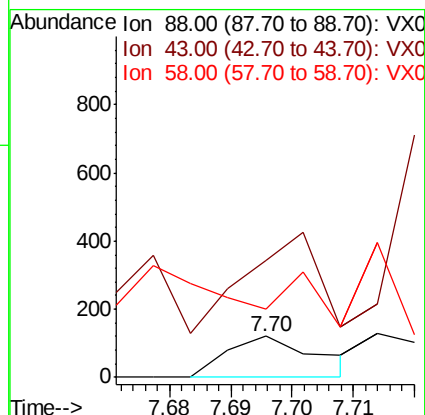
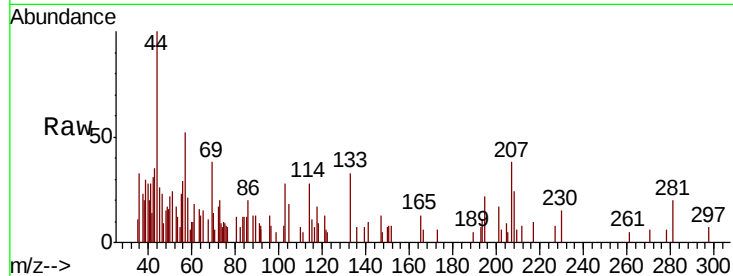




#49
1,4-Dioxane
Concen: 0.973 ug/l
RT: 7.70 min Scan# 1084
Delta R.T. -0.02 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

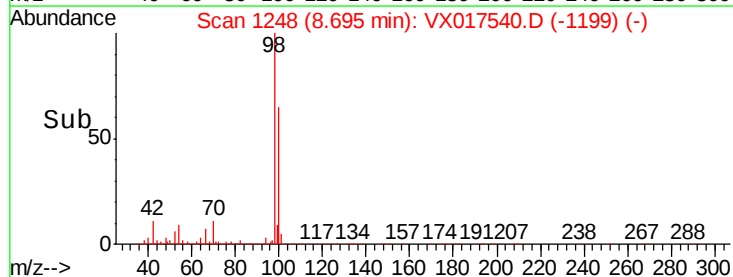
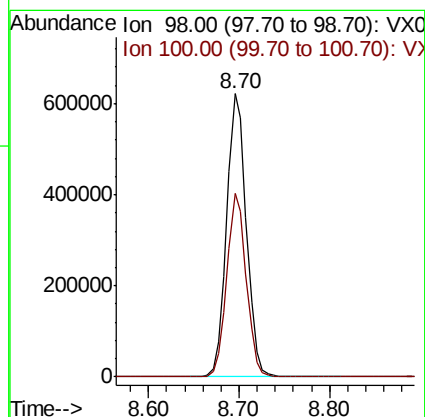
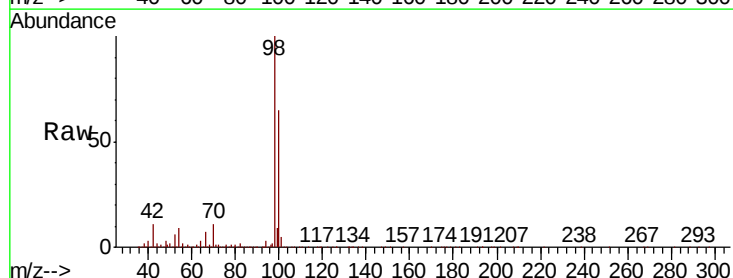
Instrument :
MSVOA_X
ClientSampleId :
DRUM-WATER

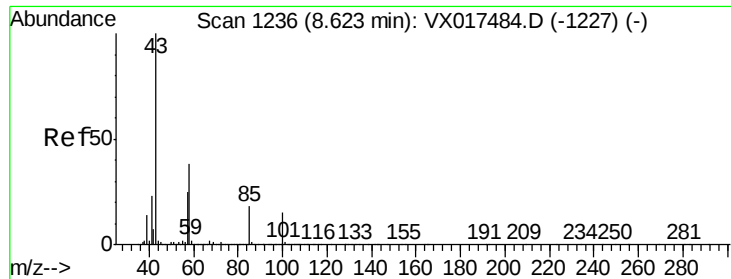
Tot Ion: 88 Resp: 123
Ion Ratio Lower Upper
88 100
43 195.9 27.8 41.6#
58 0.0 58.3 87.5#



#50
Toluene-d8
Concen: 50.598 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

Tgt Ion: 98 Resp: 937481
Ion Ratio Lower Upper
98 100
100 64.0 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 1.815 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

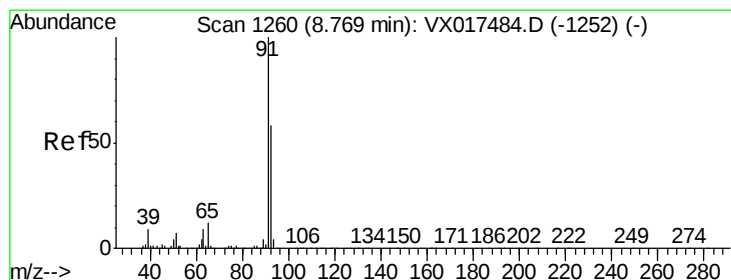
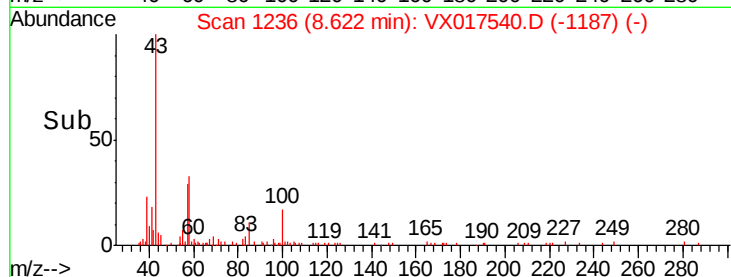
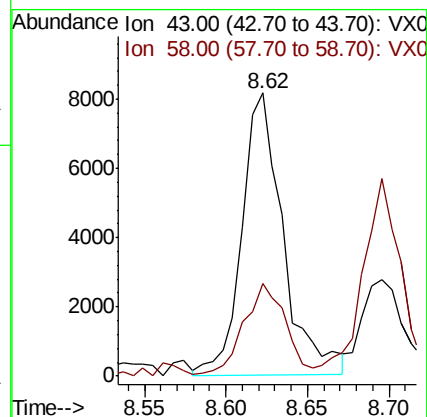
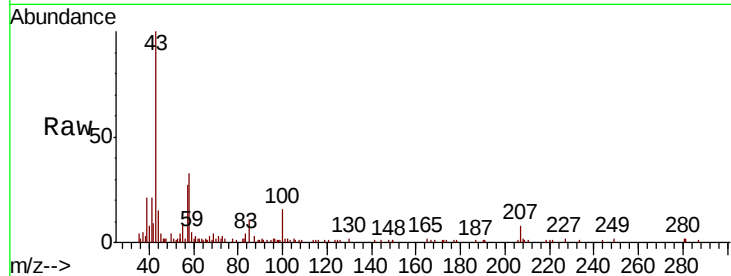
DRUM-WATER

Tot Ion: 43 Resp: 14398

Ion Ratio Lower Upper

43 100

58 32.9 31.0 46.4



#52

Toluene

Concen: 0.342 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX017540.D

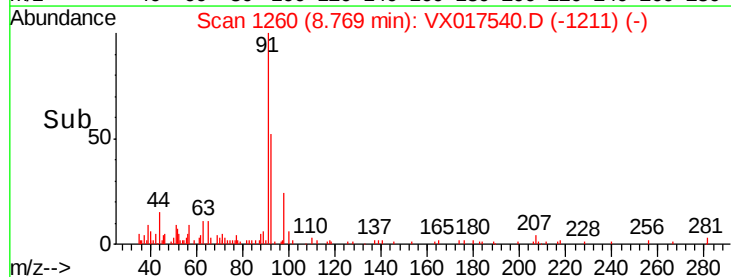
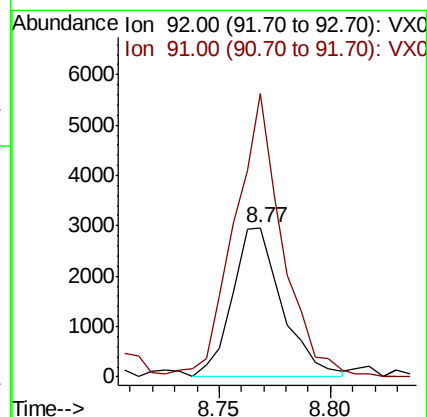
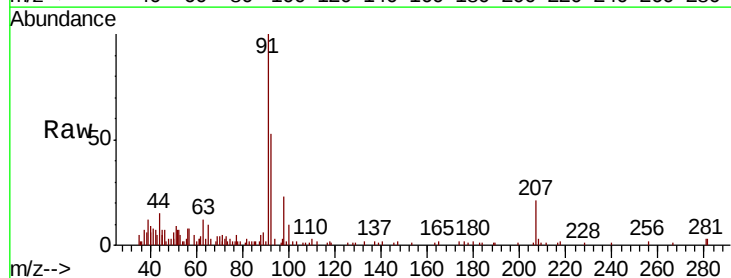
Acq: 24 Jul 2020 14:13

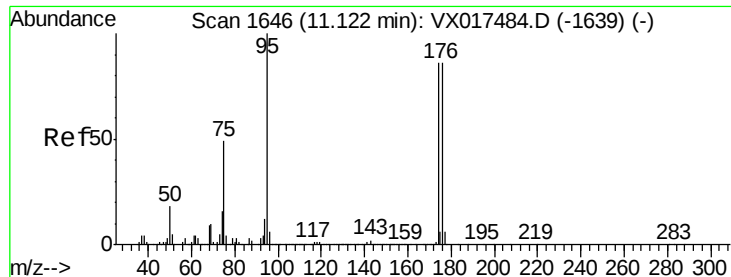
Tgt Ion: 92 Resp: 4631

Ion Ratio Lower Upper

92 100

91 181.9 137.6 206.4

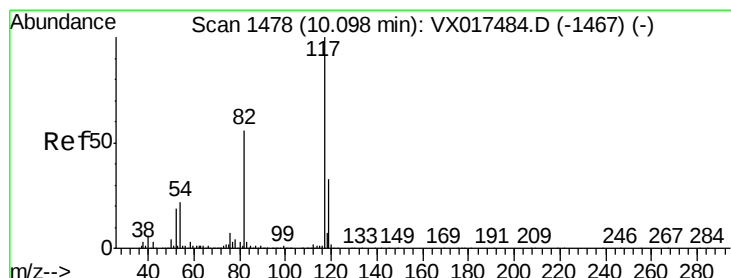
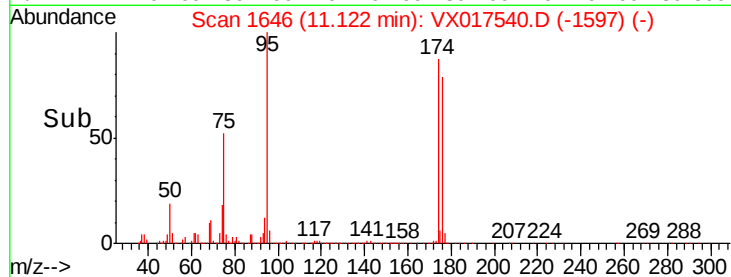
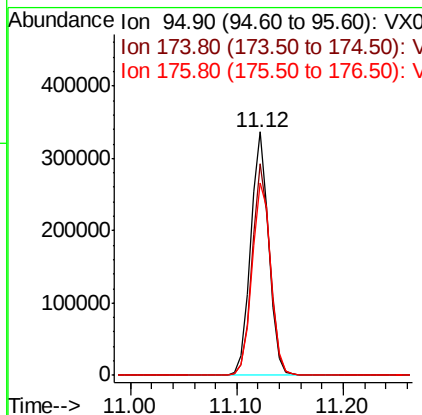
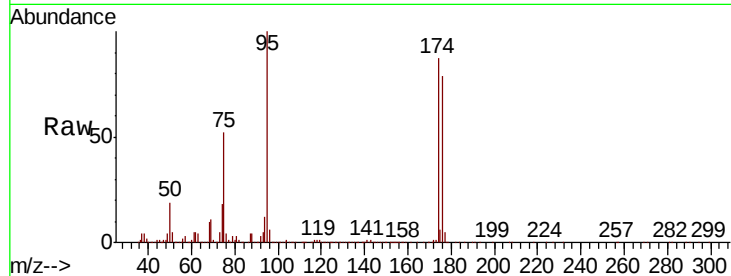




#62
4-Bromofluorobenzene
Concen: 54.085 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

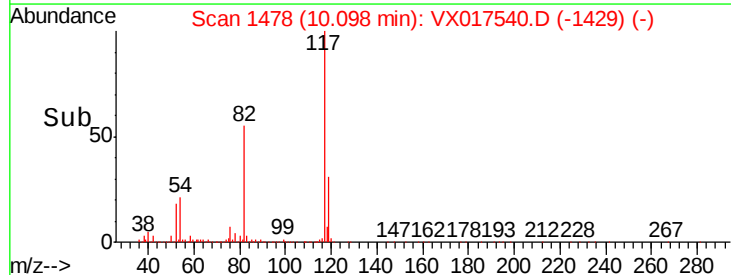
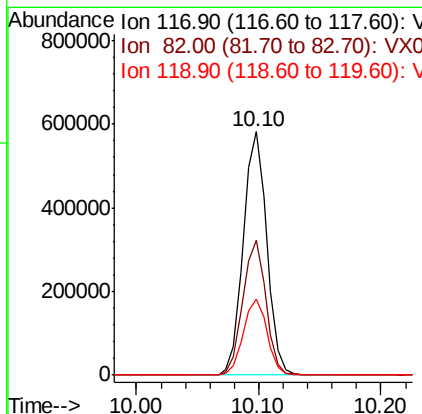
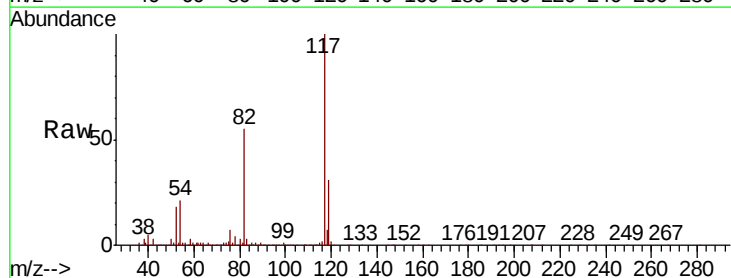
Instrument :
MSVOA_X
ClientSampleId :
DRUM-WATER

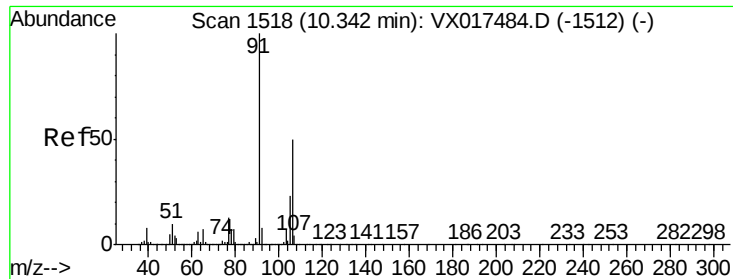
Tot Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	169.0
176	82.8	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.0	66.0
119	31.2	25.4	38.0

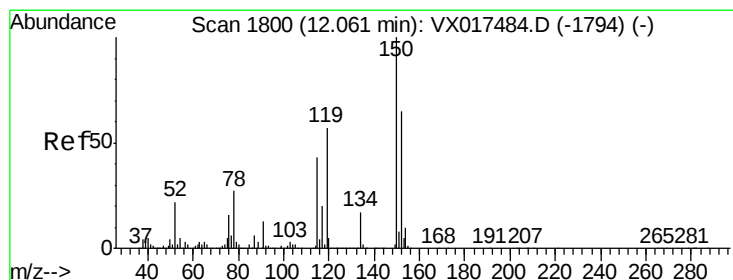
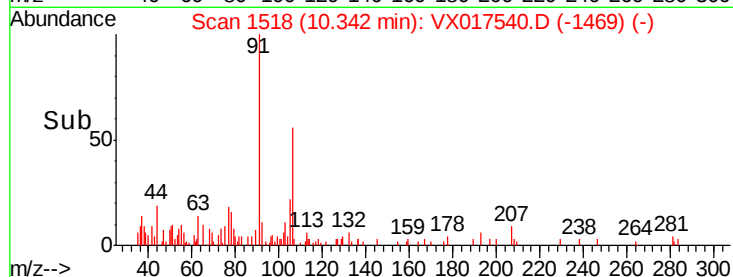
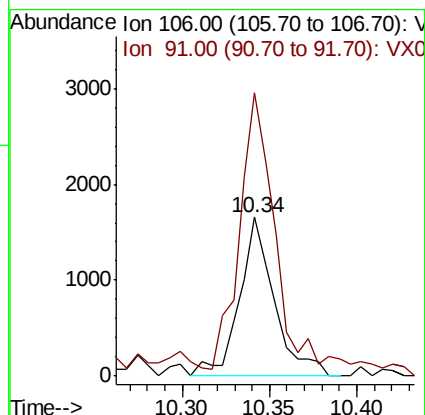
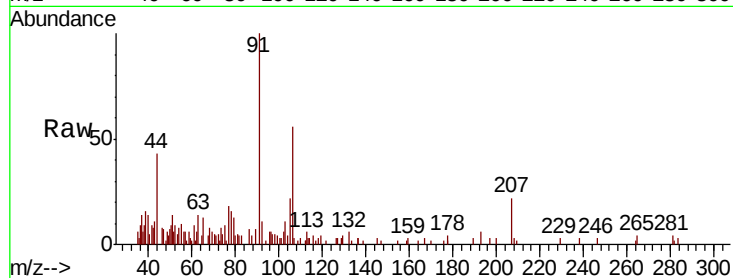




#68
m/p-Xvlenes
Concen: 0.213 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

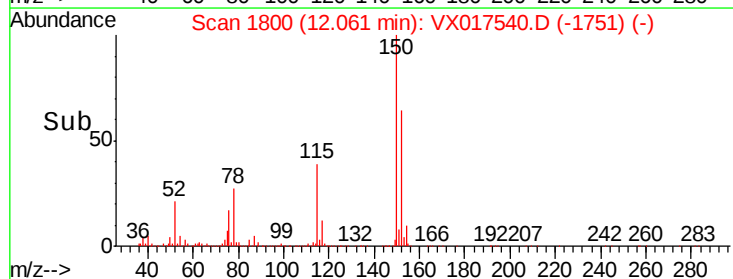
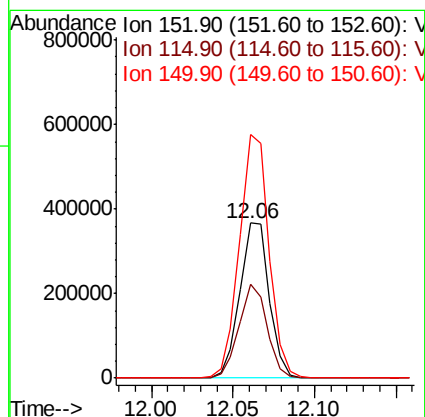
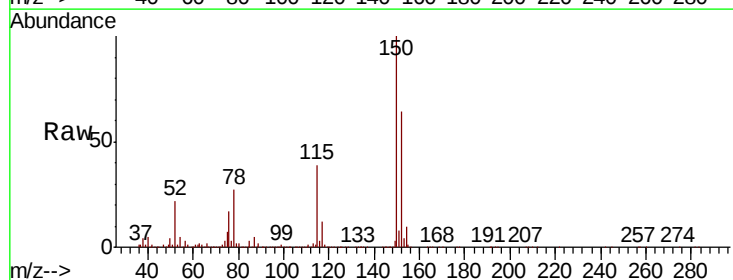
Instrument :
MSVOA_X
ClientSampleId :
DRUM-WATER

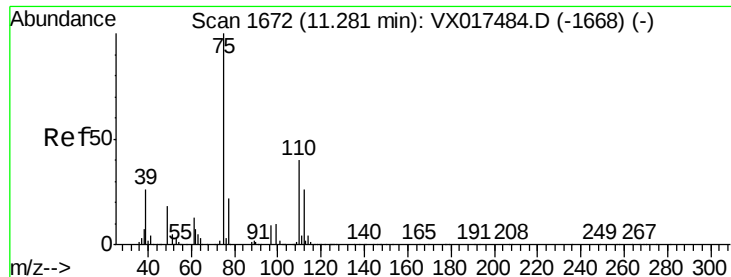
Tot Ion:106 Resp: 2305
Ion Ratio Lower Upper
106 100
91 198.9 160.9 241.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017540.D
Acq: 24 Jul 2020 14:13

Tgt Ion:152 Resp: 463337
Ion Ratio Lower Upper
152 100
115 57.8 65.5 196.6#
150 157.3 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 21.739 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

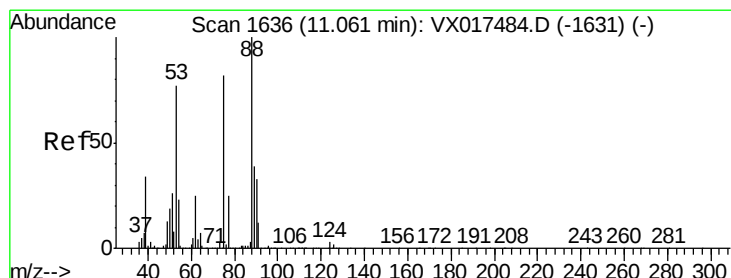
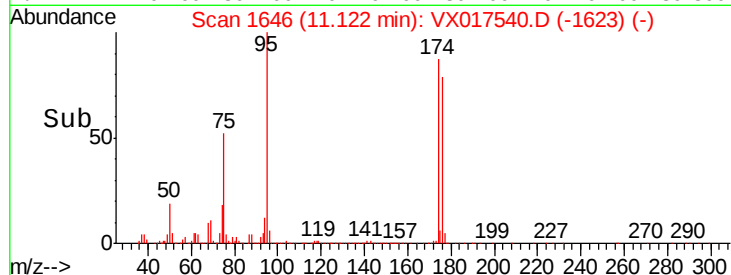
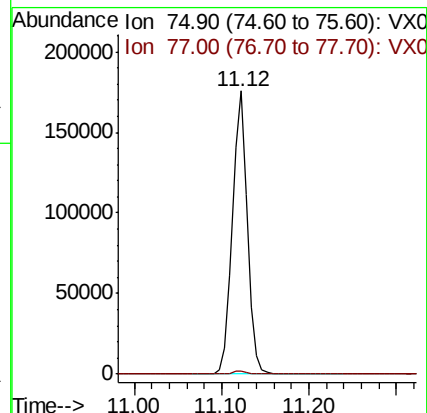
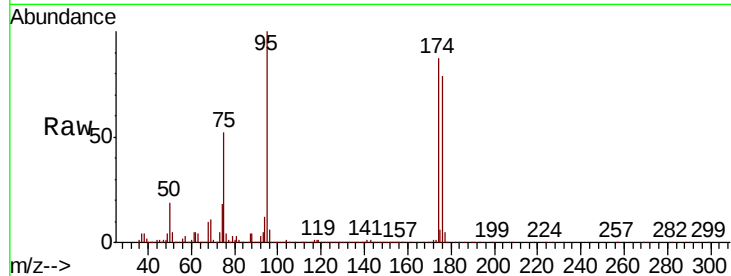
DRUM-WATER

Tot Ion: 75 Resp: 207196

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.778 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

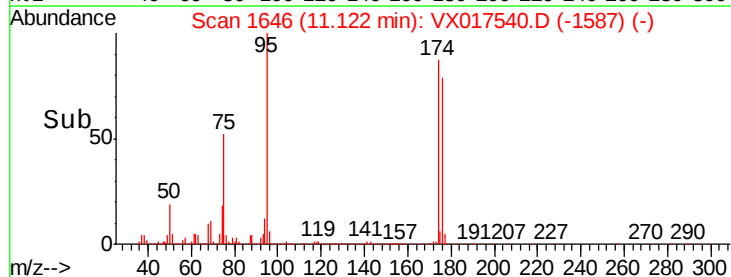
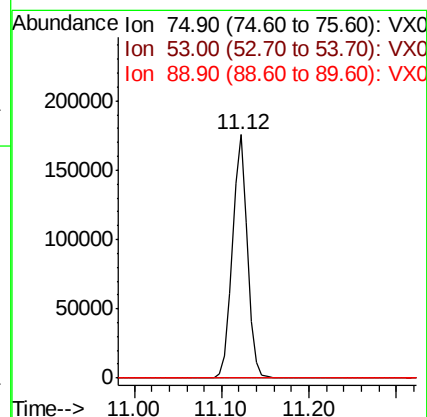
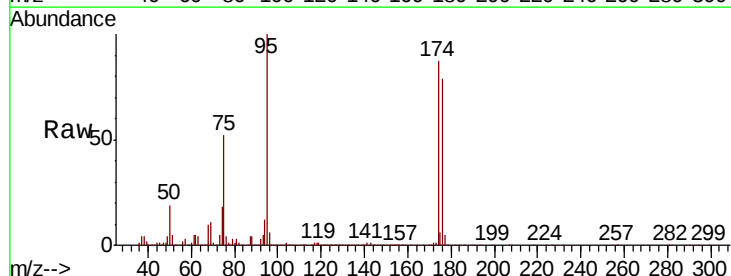
Tgt Ion: 75 Resp: 207196

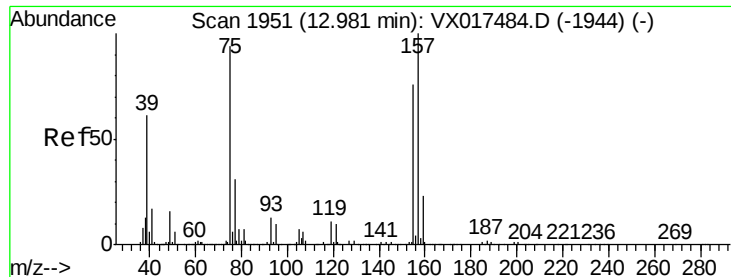
Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.1 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.668 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017540.D

Acq: 24 Jul 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

DRUM-WATER

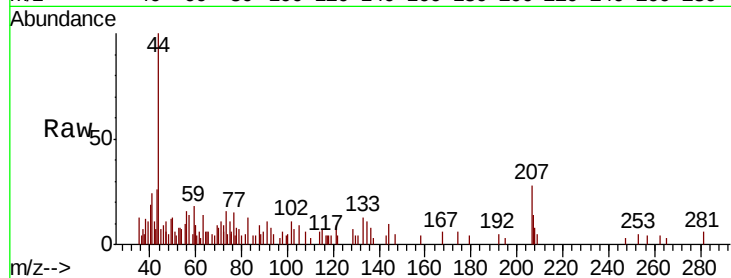
Tot Ion: 75 Resp: 269

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 0.0 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

