

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070319\
 Data File : VX010638.D
 Acq On : 03 Jul 2019 14:28
 Operator : JC/SP
 Sample : K3635-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

Quant Time: Jul 04 03:36:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	244553	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	373695	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	340230	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	155329	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	121694	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
35) Dibromofluoromethane	5.50	113	117009	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
50) Toluene-d8	8.71	98	444442	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.13	95	149331	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	

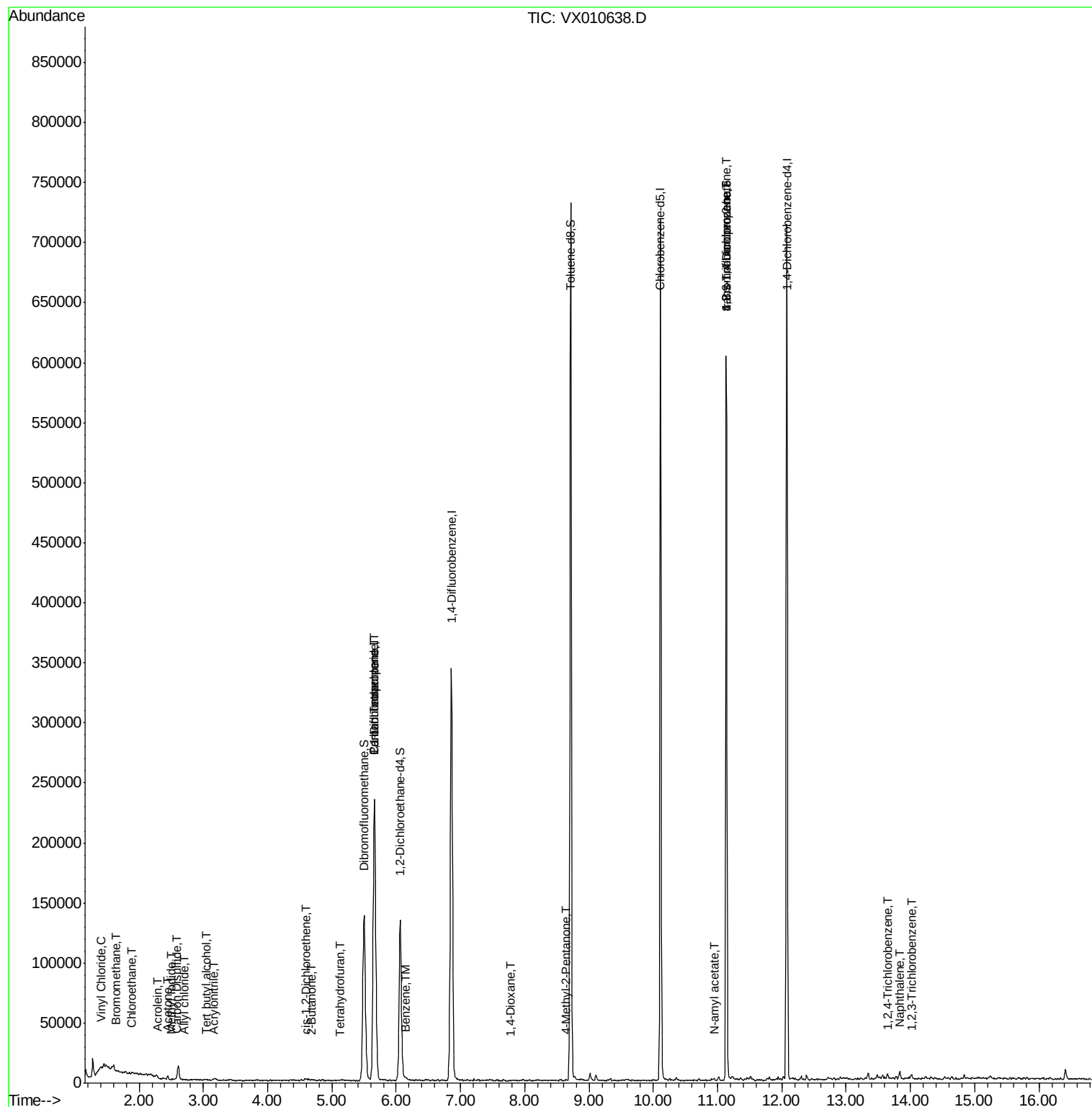
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	551	0.254	ug/l #	1
5) Bromomethane	1.65	94	983	0.930	ug/l #	66
6) Chloroethane	1.89	64	333	0.260	ug/l #	60
10) Methyl Iodide	2.51	142	1050	0.353	ug/l #	83
11) Tert butyl alcohol	3.04	59	1596	2.660	ug/l #	88
13) Acrolein	2.29	56	445	1.118	ug/l #	14
14) Allyl chloride	2.70	41	838	0.278	ug/l #	37
15) Acrylonitrile	3.15	53	301	0.253	ug/l #	9
16) Acetone	2.45	43	3740	3.255	ug/l	94
17) Carbon Disulfide	2.57	76	2073	0.365	ug/l #	85
25) 2-Butanone	4.69	43	476	0.282	ug/l #	46
27) cis-1,2-Dichloroethene	4.59	96	1090	0.414	ug/l	81
29) Tetrahydrofuran	5.12	42	237	0.227	ug/l #	28
36) 1,1-Dichloropropene	5.66	75	15528	5.229	ug/l #	47
38) Carbon Tetrachloride	5.65	117	22335	6.946	ug/l #	15
40) Benzene	6.15	78	2568	0.278	ug/l	91
49) 1,4-Dioxane	7.79	88	114	1.684	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	883	0.273	ug/l	100
74) N-amyl acetate	10.94	43	1017	0.256	ug/l #	61
76) 1,2,3-Trichloropropane	11.13	75	72632	25.660	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	72632	59.863	ug/l #	16
93) 1,2,4-Trichlorobenzene	13.65	180	885	0.250	ug/l #	74
95) Naphthalene	13.83	128	3341	0.307	ug/l	96
96) 1,2,3-Trichlorobenzene	14.02	180	867	0.247	ug/l #	79

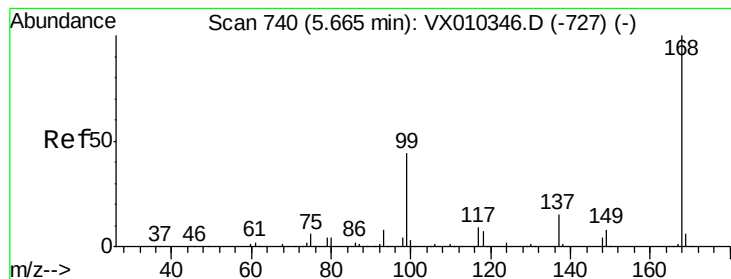
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :
MW-1

Quant Time: Jul 04 03:36:31 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampleId :

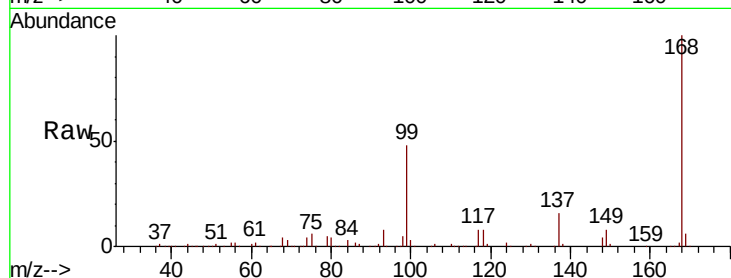
MW-1

Tot Ion:168 Resp: 244553

Ion Ratio Lower Upper

168 100

99 47.6 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

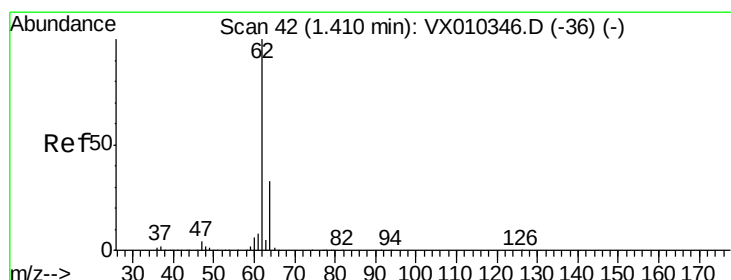
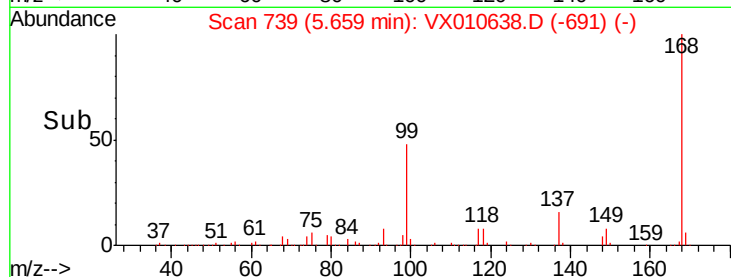
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.254 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010638.D

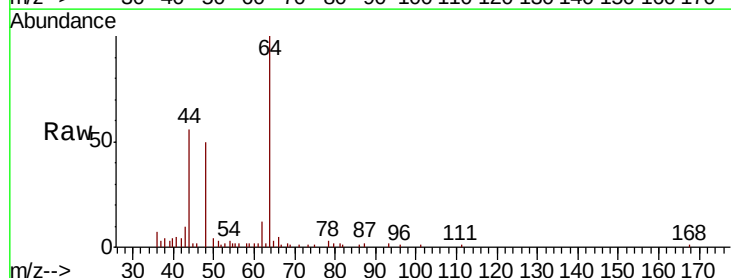
Acq: 03 Jul 2019 14:28

Tgt Ion: 62 Resp: 551

Ion Ratio Lower Upper

62 100

64 196.2 26.2 39.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

5000

4000

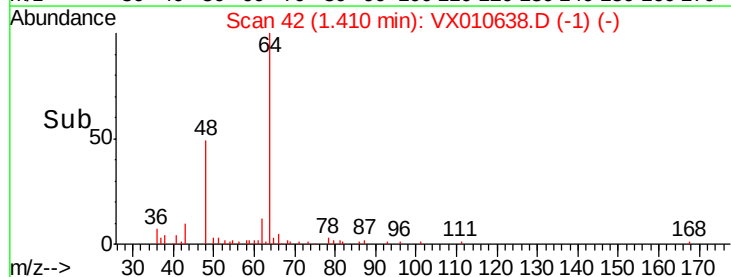
3000

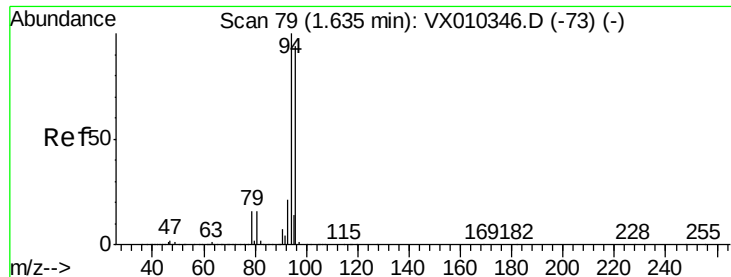
2000

1000

0

Time--> 1.40 1.45





#5

Bromomethane

Concen: 0.930 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampled :

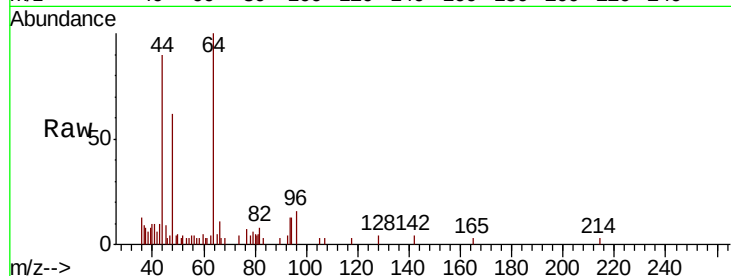
MW-1

Tot Ion: 94 Resp: 983

Ion Ratio Lower Upper

94 100

96 61.9 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

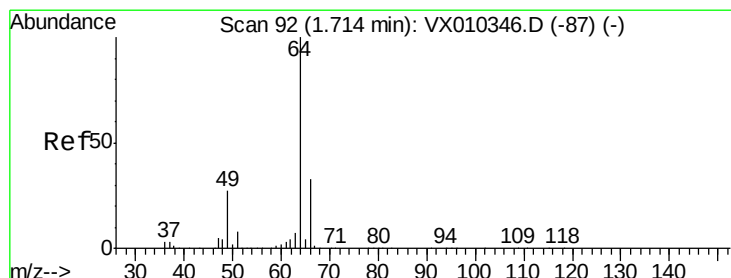
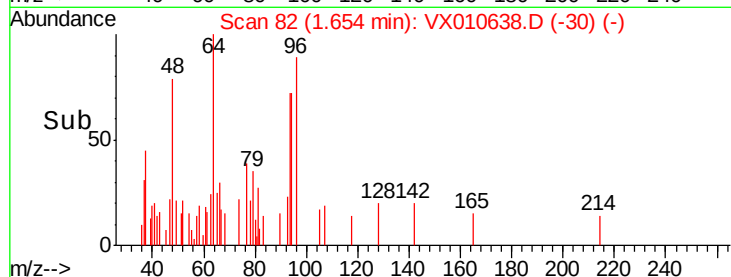
300

200

100

0

Time-->



#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.89 min Scan# 120

Delta R.T. 0.17 min

Lab File: VX010638.D

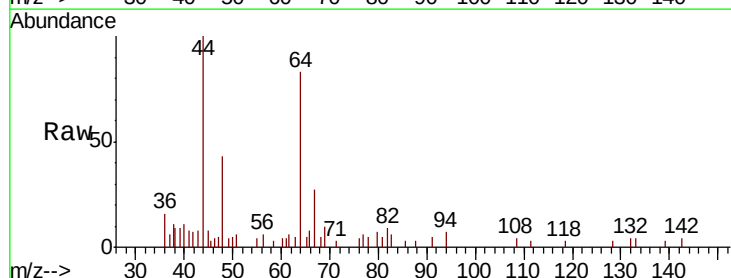
Acq: 03 Jul 2019 14:28

Tgt Ion: 64 Resp: 333

Ion Ratio Lower Upper

64 100

66 10.7 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.89

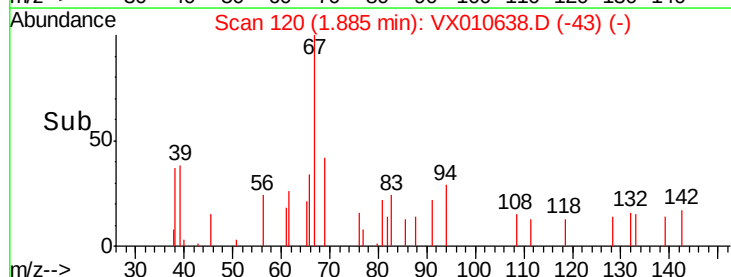
1500

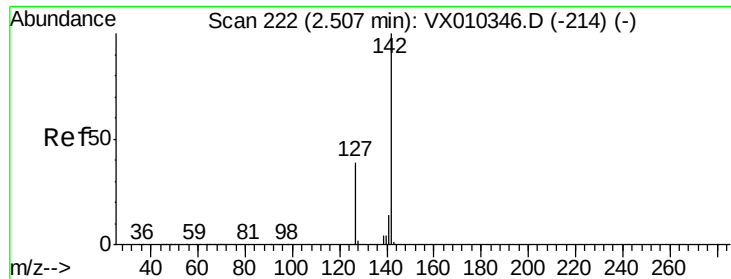
1000

500

0

Time-->

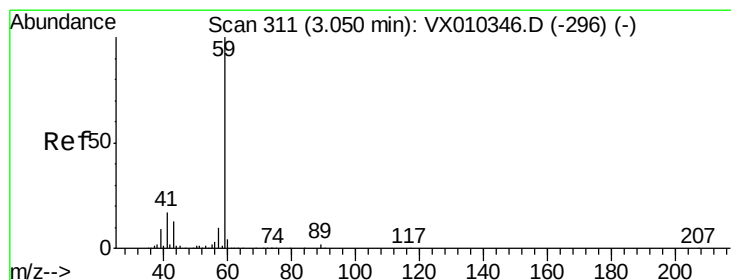
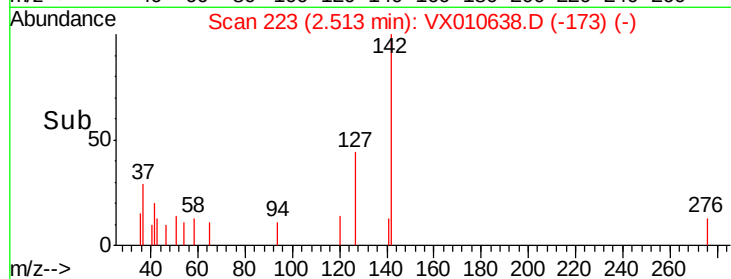
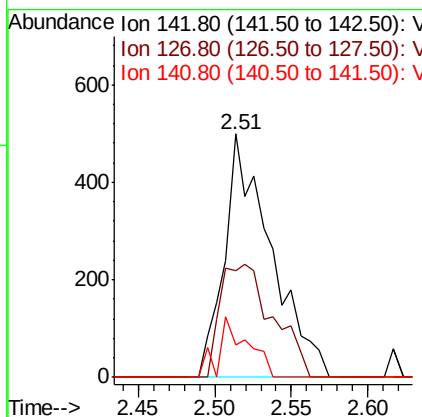
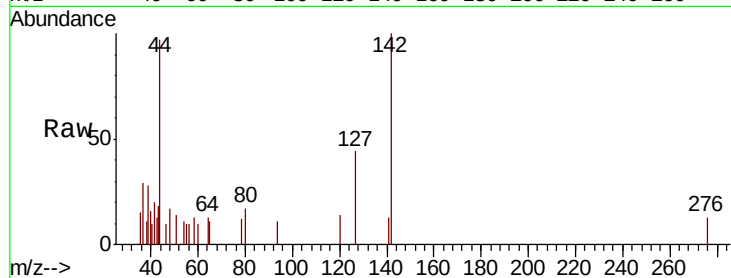




#10
Methvl Iodide
Concen: 0.353 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX010638.D
Acq: 03 Jul 2019 14:28

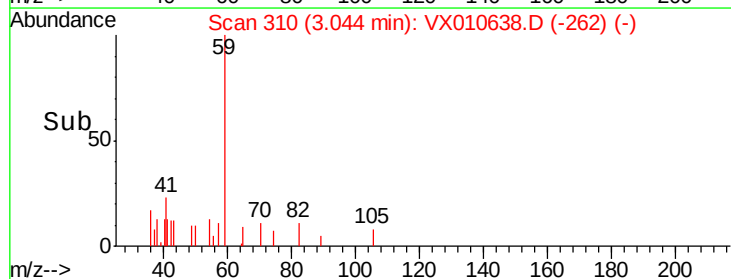
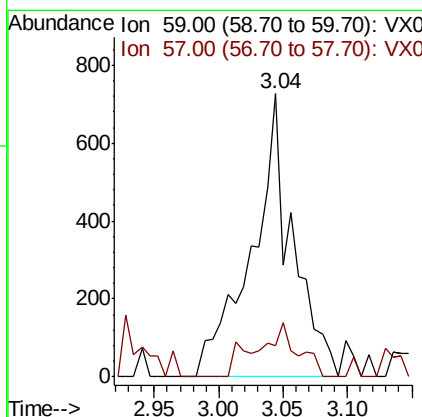
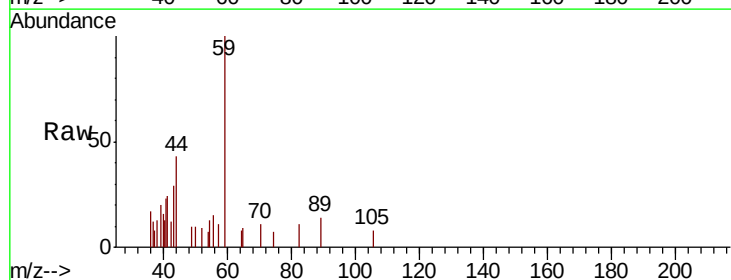
Instrument :
MSVOA_X
ClientSampleId :
MW-1

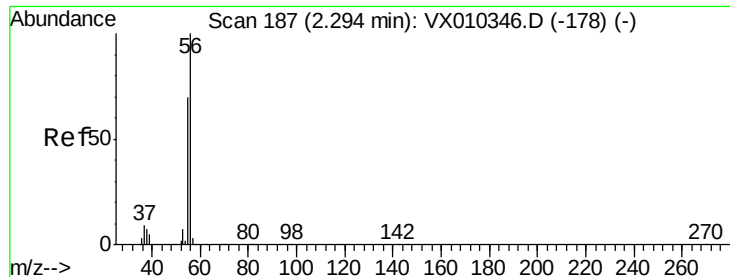
Tot Ion:142 Resp: 1050
Ion Ratio Lower Upper
142 100
127 52.6 31.1 46.7#
141 15.3 11.2 16.8



#11
Tert butyl alcohol
Concen: 2.660 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010638.D
Acq: 03 Jul 2019 14:28

Tgt Ion: 59 Resp: 1596
Ion Ratio Lower Upper
59 100
57 14.2 7.7 11.5#





#13

Acrolein

Concen: 1.118 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampled :

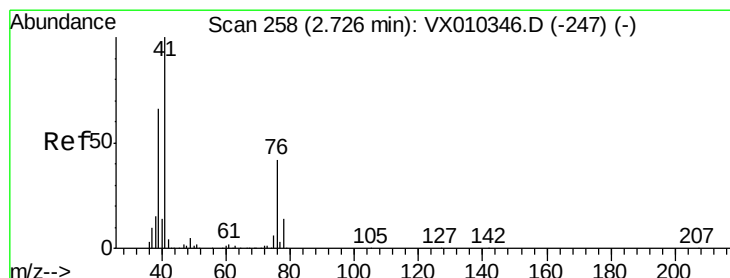
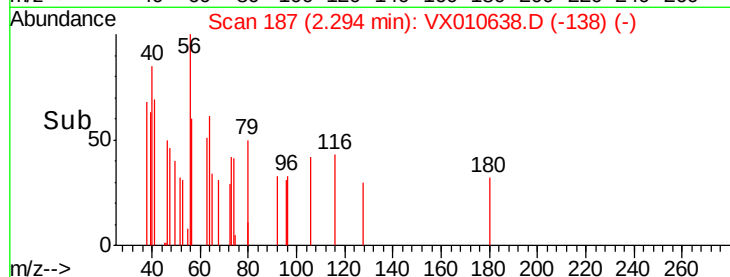
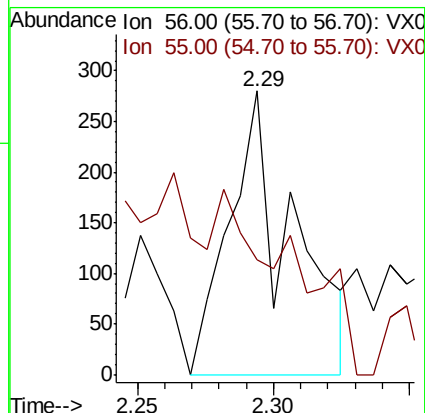
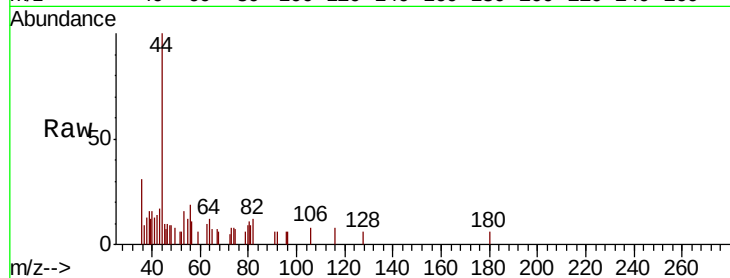
MW-1

Tot Ion: 56 Resp: 445

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#14

Allyl chloride

Concen: 0.278 ug/l

RT: 2.70 min Scan# 253

Delta R.T. -0.03 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

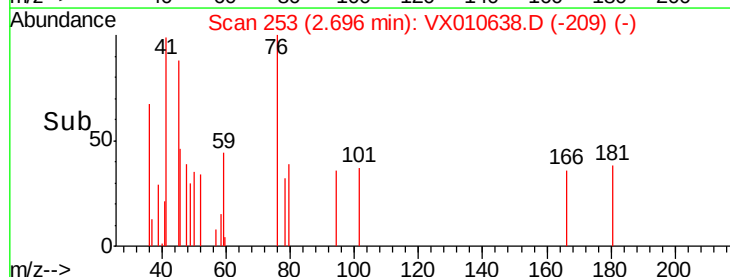
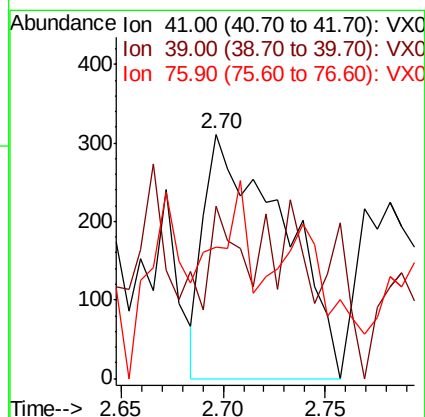
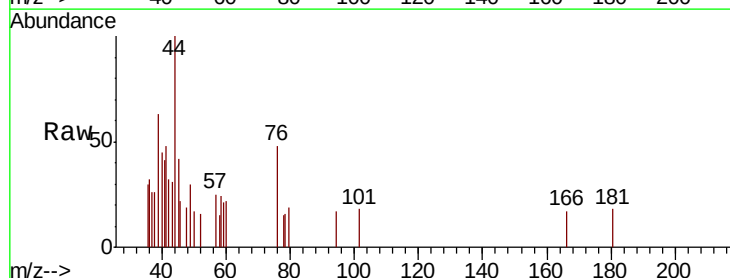
Tgt Ion: 41 Resp: 838

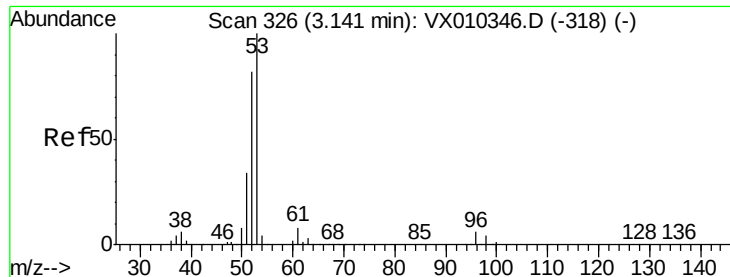
Ion Ratio Lower Upper

41 100

39 14.2 50.3 75.5#

76 0.0 31.3 46.9#





#15

Acrylonitrile

Concen: 0.253 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampled :

MW-1

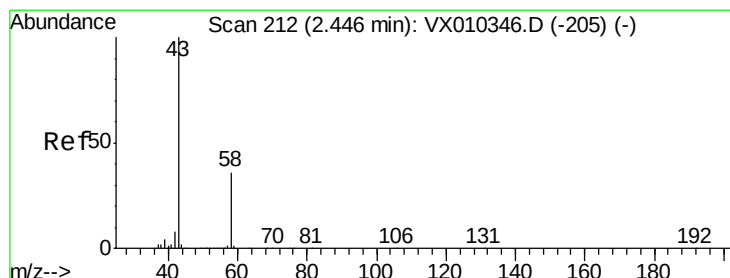
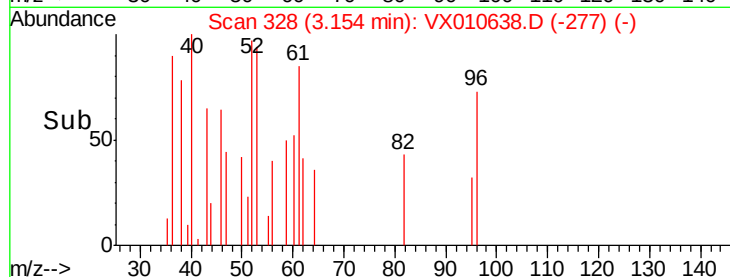
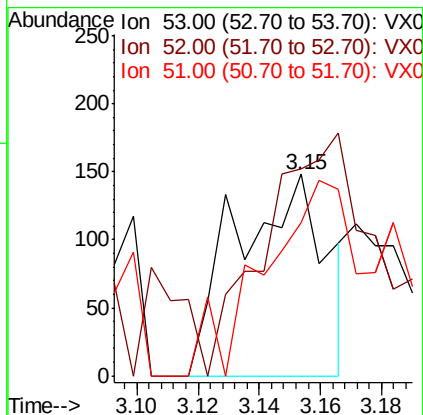
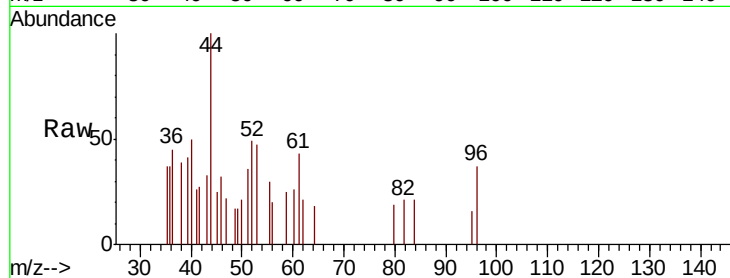
Tot Ion: 53 Resp: 301

Ion Ratio Lower Upper

53 100

52 152.8 65.5 98.3#

51 103.3 28.2 42.4#



#16

Acetone

Concen: 3.255 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010638.D

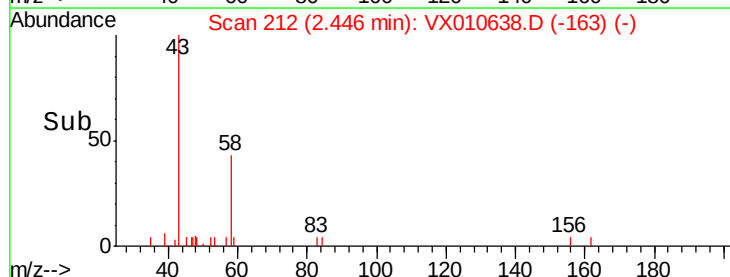
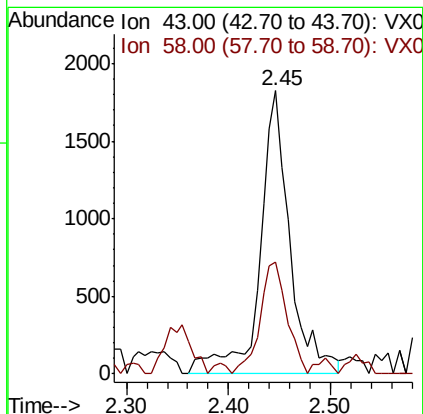
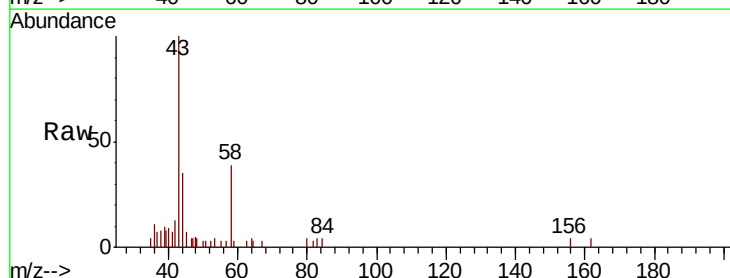
Acq: 03 Jul 2019 14:28

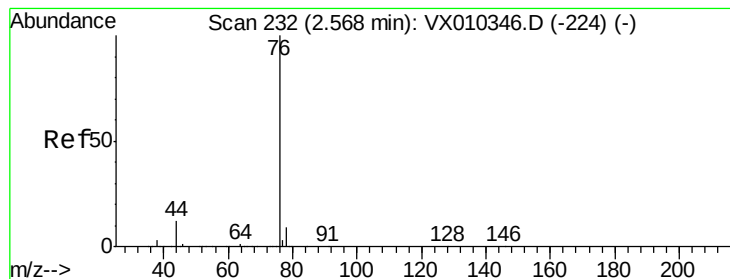
Tgt Ion: 43 Resp: 3740

Ion Ratio Lower Upper

43 100

58 39.4 28.9 43.3





#17

Carbon Disulfide

Concen: 0.365 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampled :

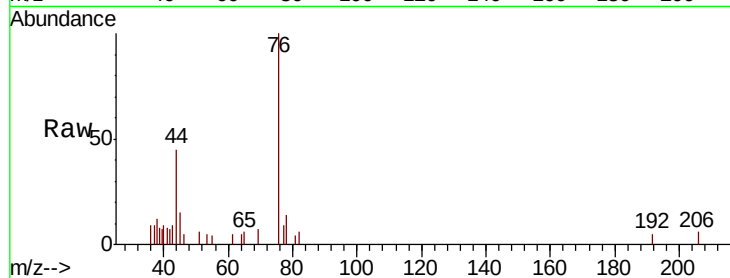
MW-1

Tot Ion: 76 Resp: 2073

Ion Ratio Lower Upper

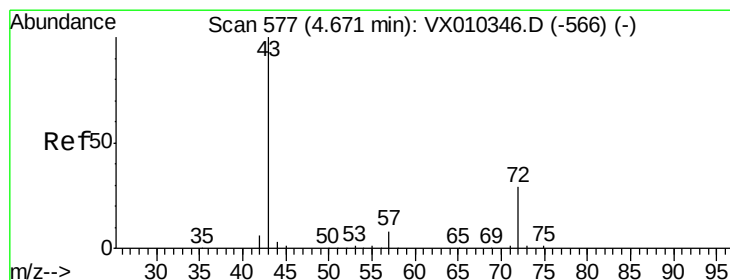
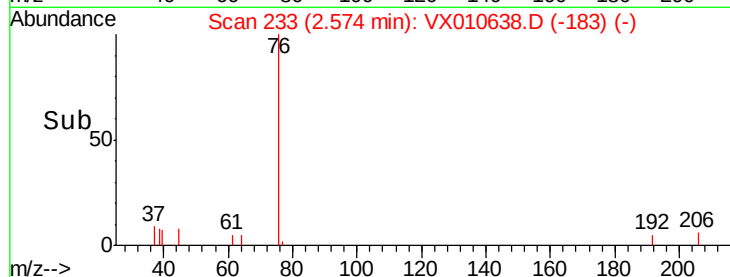
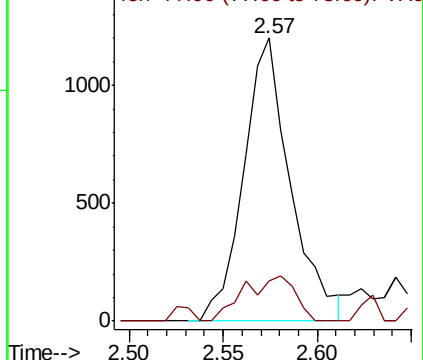
76 100

78 14.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#25

2-Butanone

Concen: 0.282 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010638.D

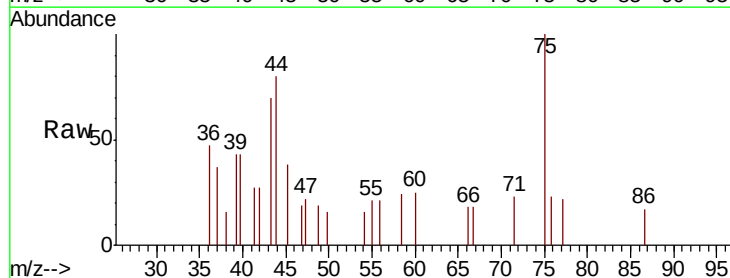
Acq: 03 Jul 2019 14:28

Tgt Ion: 43 Resp: 476

Ion Ratio Lower Upper

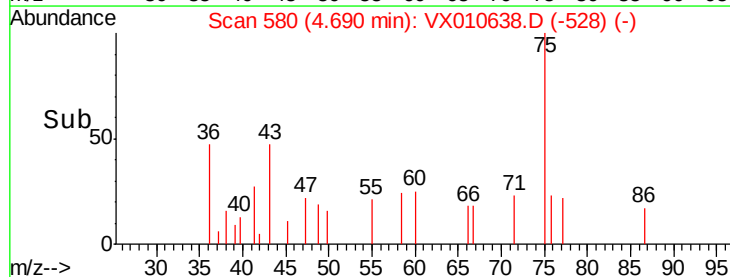
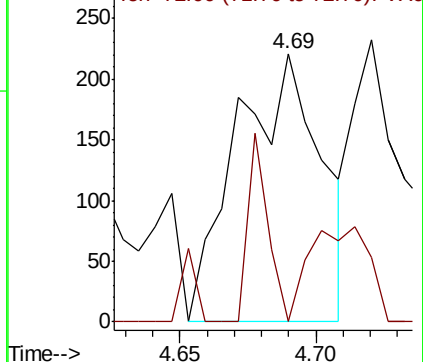
43 100

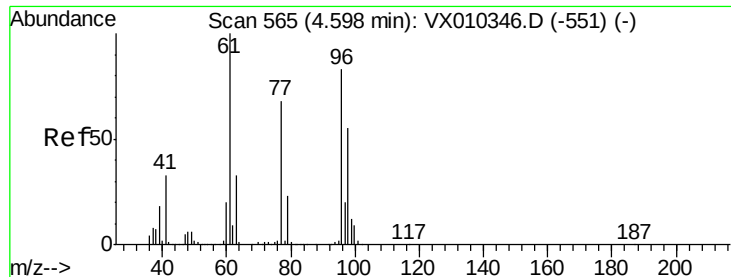
72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



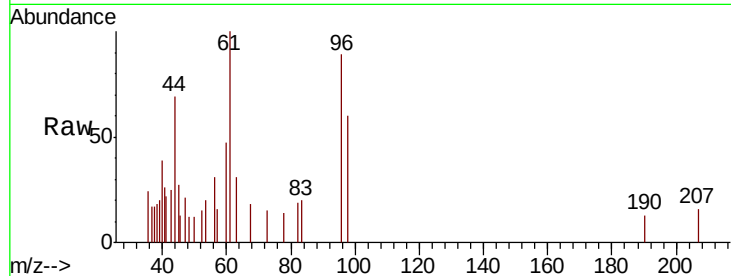


#27

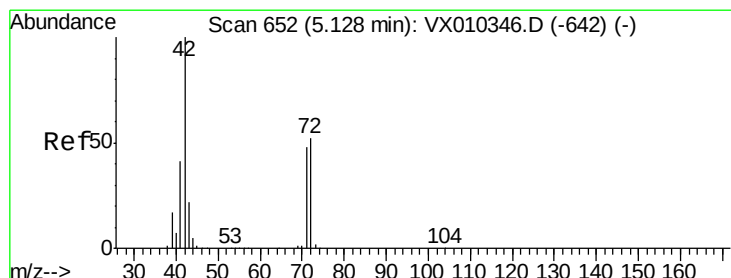
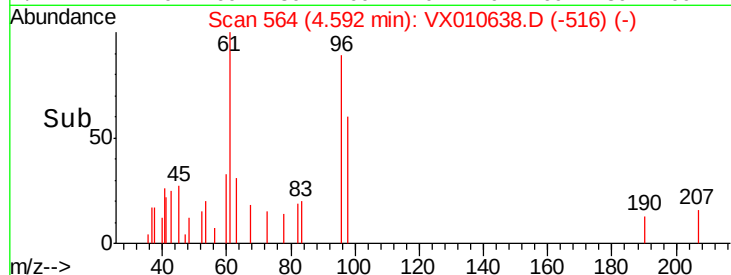
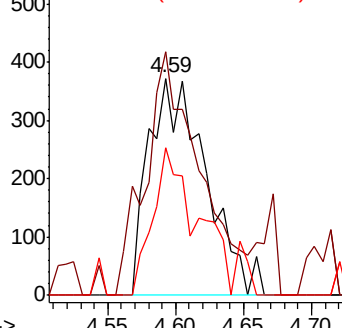
cis-1,2-Dichloroethene
 Concen: 0.414 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX010638.D
 Acq: 03 Jul 2019 14:28

Instrument :
 MSVOA_X
 ClientSampled :
 MW-1

Tot Ion: 96 Resp: 1090
 Ion Ratio Lower Upper
 96 100
 61 107.3 0.0 251.8
 98 45.5 0.0 129.4



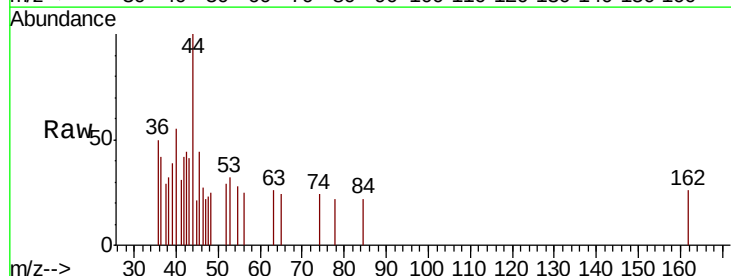
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



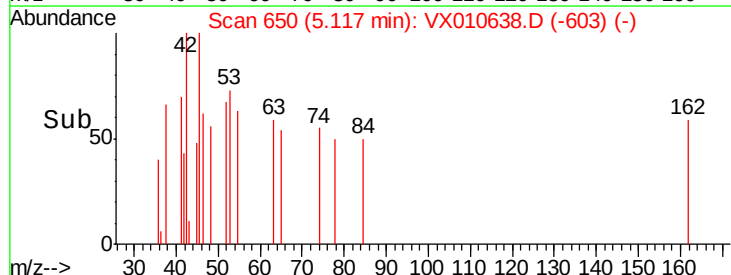
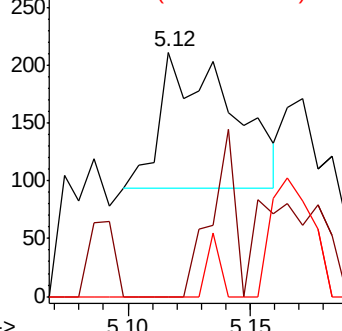
#29

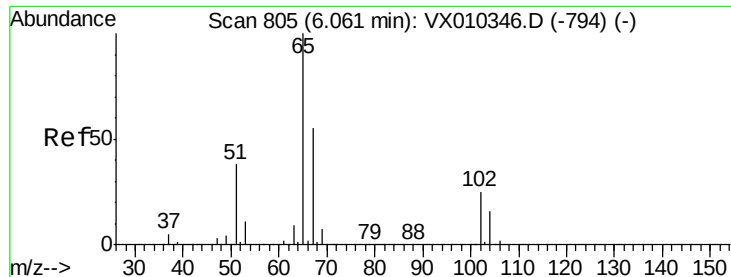
Tetrahydrofuran
 Concen: 0.227 ug/l
 RT: 5.12 min Scan# 650
 Delta R.T. -0.01 min
 Lab File: VX010638.D
 Acq: 03 Jul 2019 14:28

Tgt Ion: 42 Resp: 237
 Ion Ratio Lower Upper
 42 100
 72 0.0 40.6 60.8#
 71 0.0 37.8 56.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0

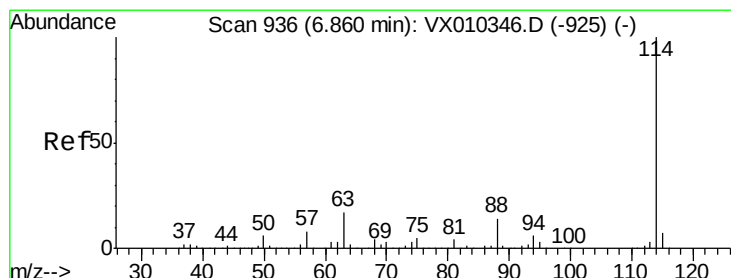
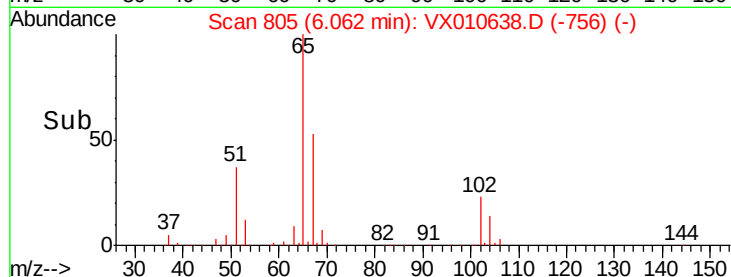
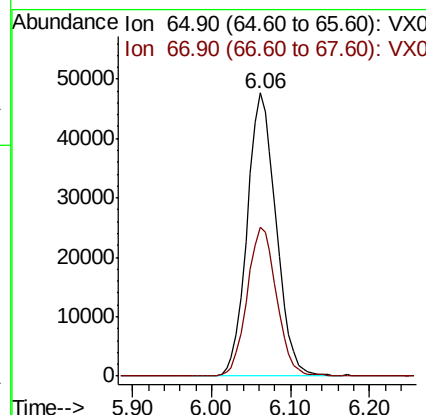
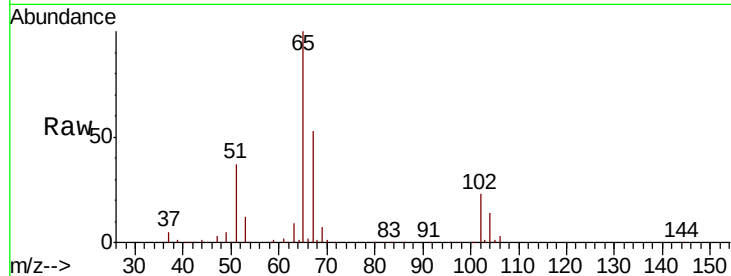




#33
 1,2-Dichloroethane-d4
 Concen: 53.074 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010638.D
 Acq: 03 Jul 2019 14:28

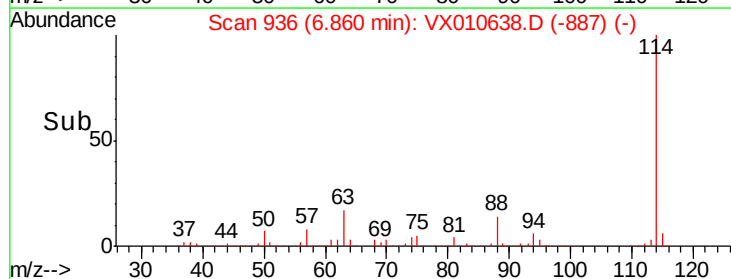
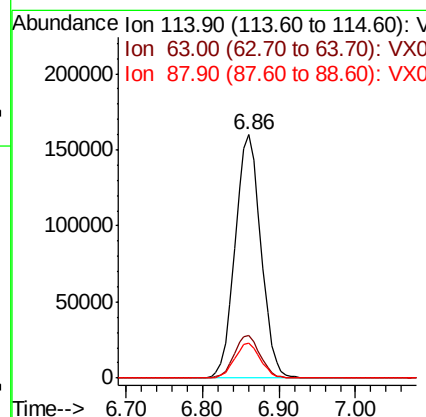
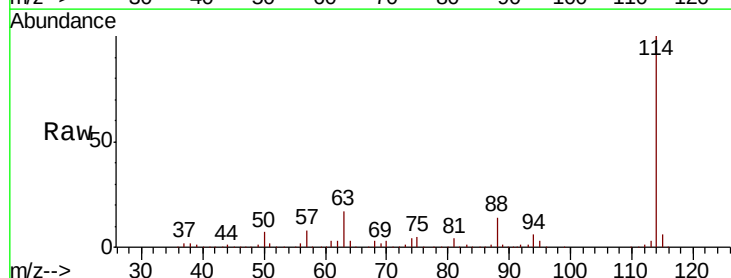
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

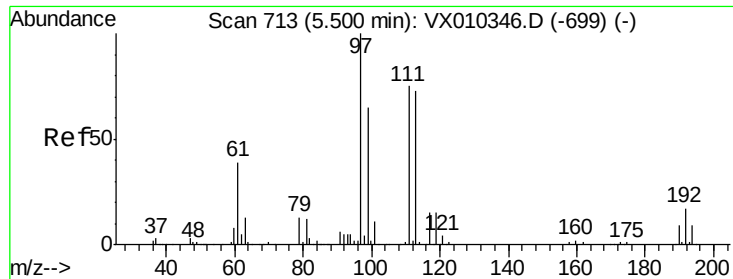
Tot Ion: 65 Resp: 121694
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010638.D
 Acq: 03 Jul 2019 14:28

Tgt Ion: 114 Resp: 373695
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 33.8
 88 14.2 0.0 27.6

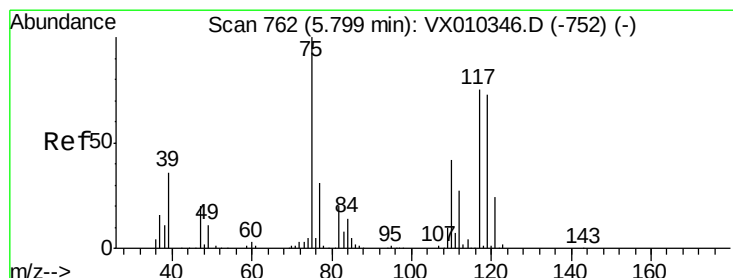
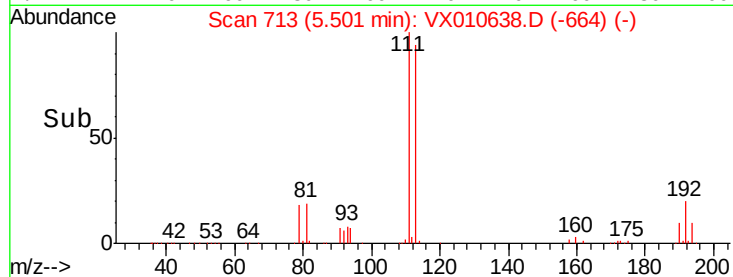
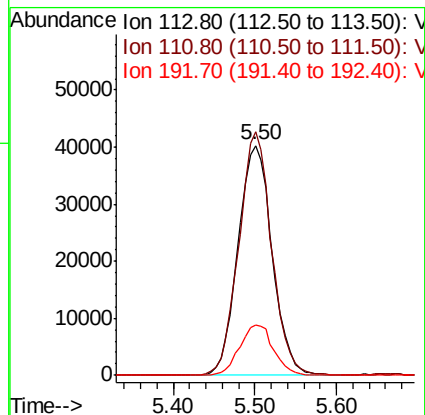
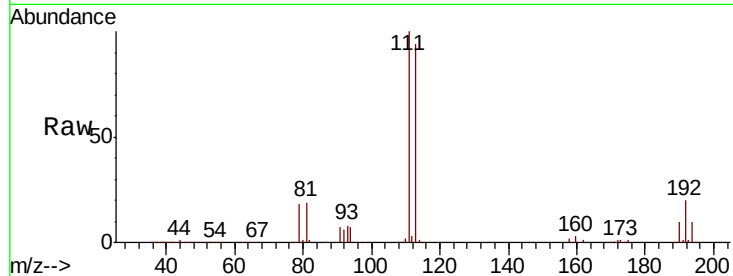




#35
 Dibromofluoromethane
 Concen: 51.176 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010638.D
 Acq: 03 Jul 2019 14:28

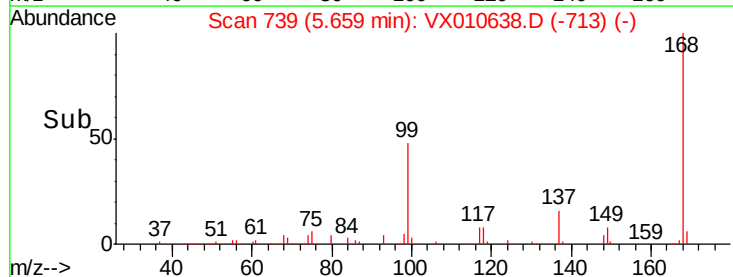
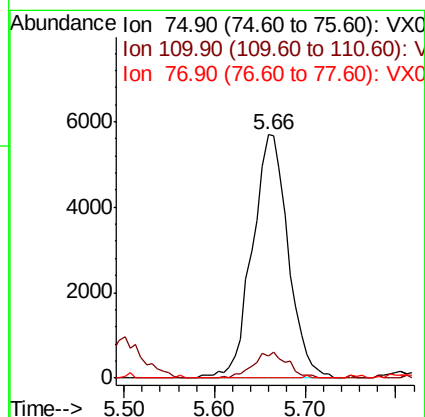
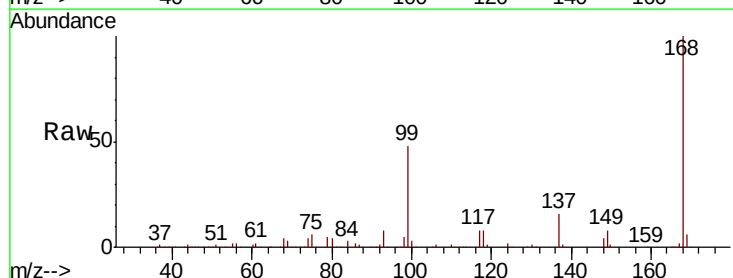
Instrument :
 MSVOA_X
 ClientSampled :
 MW-1

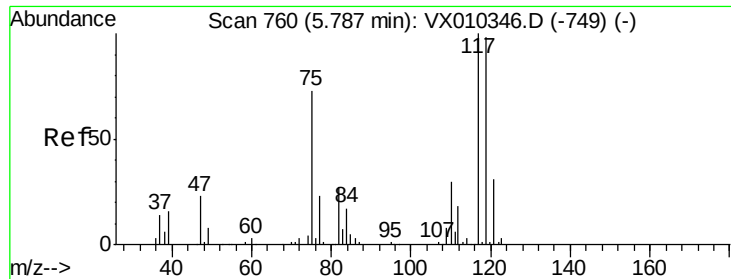
Tot Ion:113 Resp: 117009
 Ion Ratio Lower Upper
 113 100
 111 101.5 81.2 121.8
 192 21.8 18.6 27.8



#36
 1,1-Dichloropropene
 Concen: 5.229 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010638.D
 Acq: 03 Jul 2019 14:28

Tgt Ion: 75 Resp: 15528
 Ion Ratio Lower Upper
 75 100
 110 10.2 20.8 62.2#
 77 0.0 25.4 38.0#





#38

Carbon Tetrachloride

Concen: 6.946 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampled :

MW-1

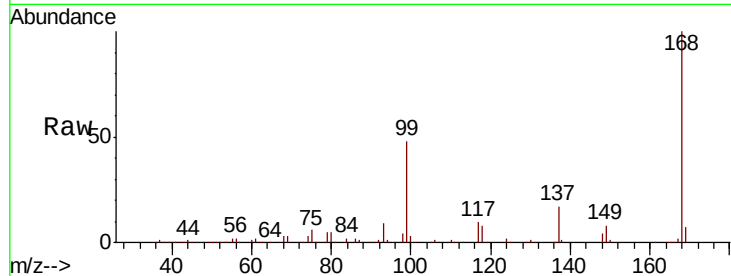
Tot Ion:117 Resp: 22335

Ion Ratio Lower Upper

117 100

119 4.9 78.2 117.4#

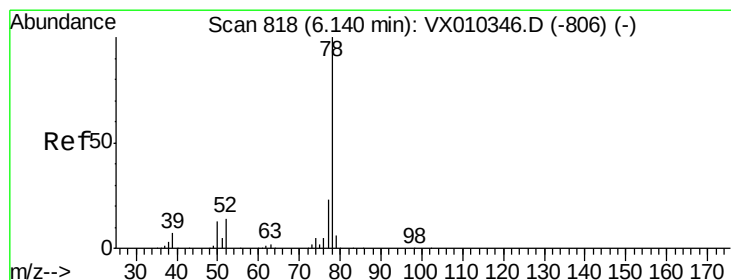
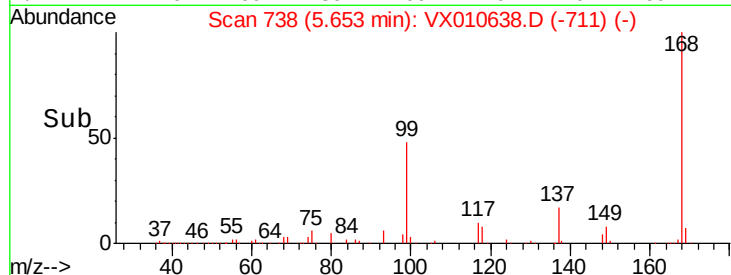
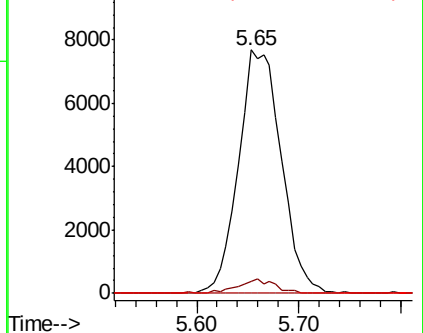
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 0.278 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010638.D

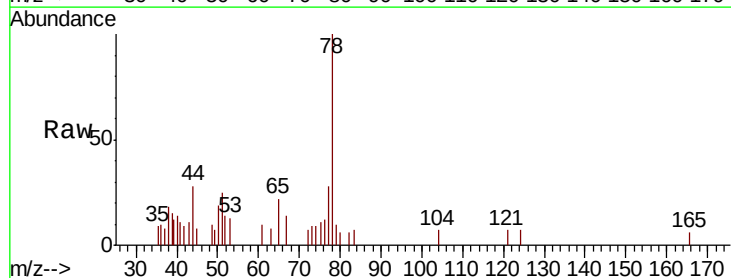
Acq: 03 Jul 2019 14:28

Tgt Ion: 78 Resp: 2568

Ion Ratio Lower Upper

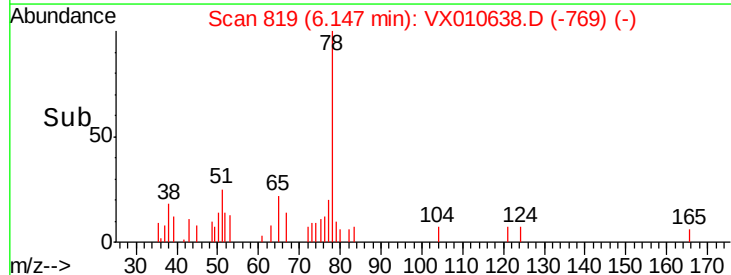
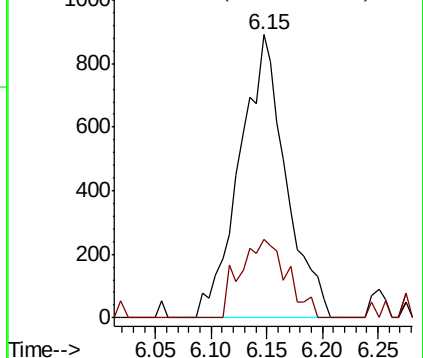
78 100

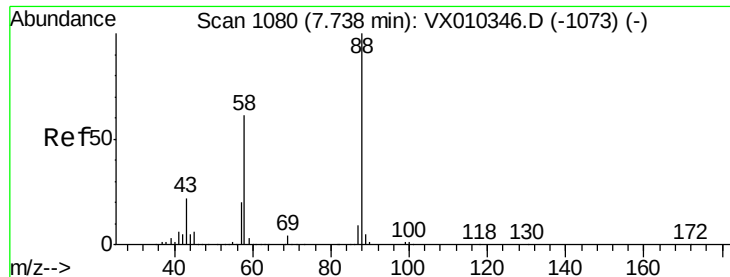
77 27.7 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#49

1,4-Dioxane

Concen: 1.684 ug/l

RT: 7.79 min Scan# 1088

Delta R.T. 0.05 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampled :

MW-1

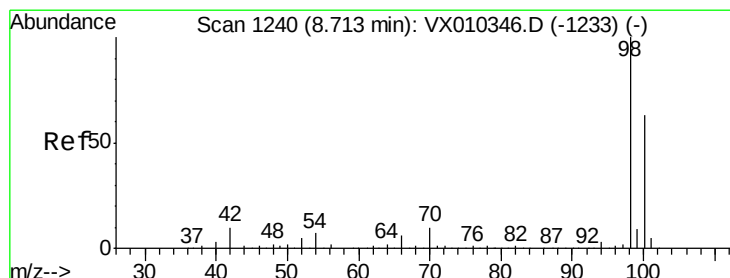
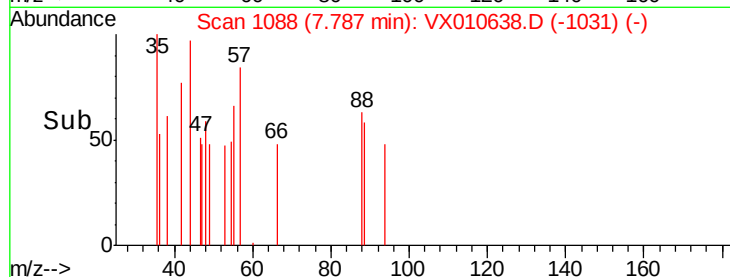
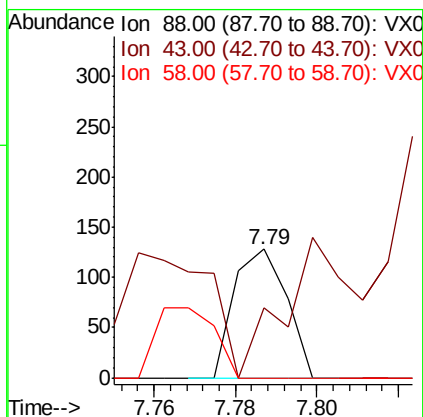
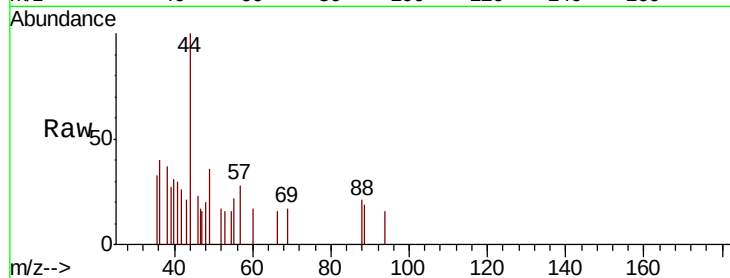
Tot Ion: 88 Resp: 114

Ion Ratio Lower Upper

88 100

43 140.4 20.2 30.2#

58 0.0 49.5 74.3#



#50

Toluene-d8

Concen: 50.809 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010638.D

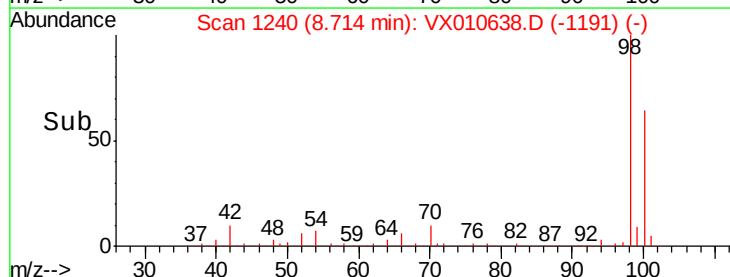
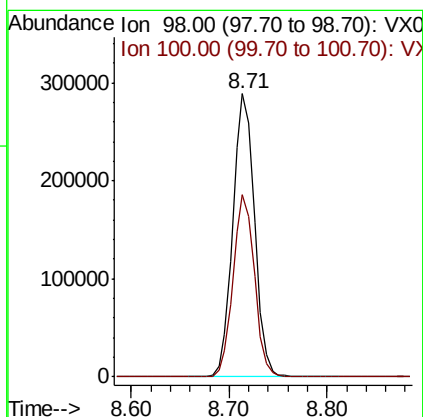
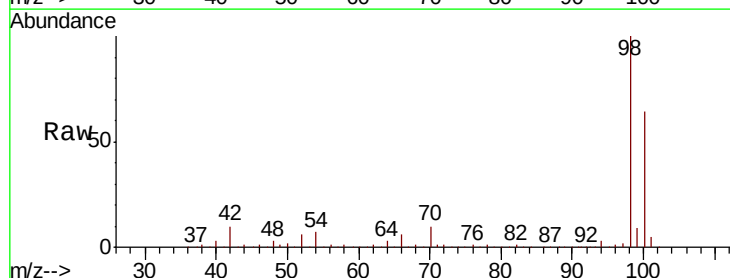
Acq: 03 Jul 2019 14:28

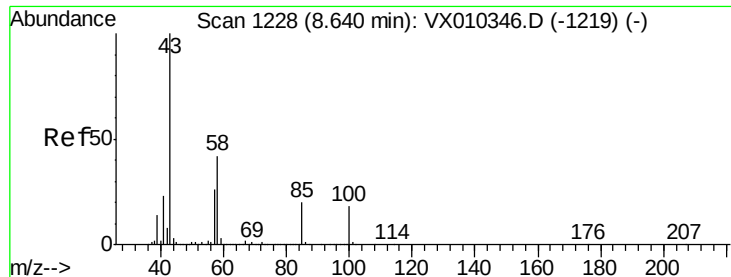
Tgt Ion: 98 Resp: 444442

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4

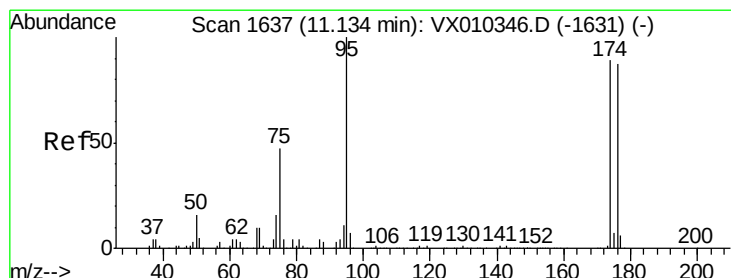
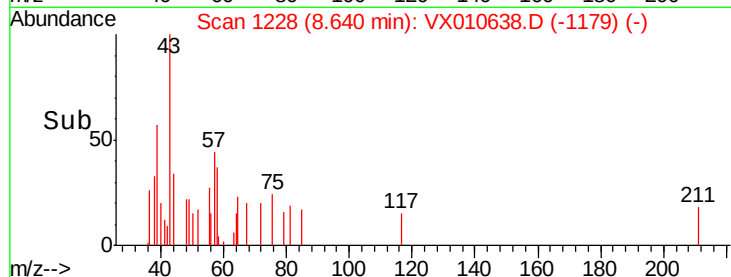
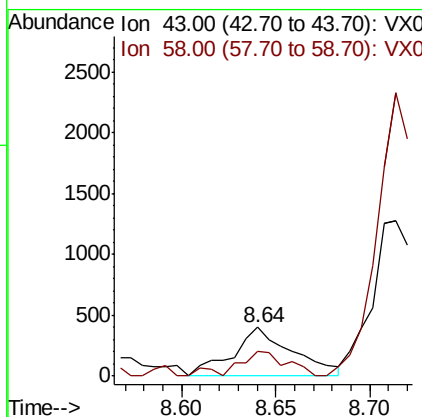
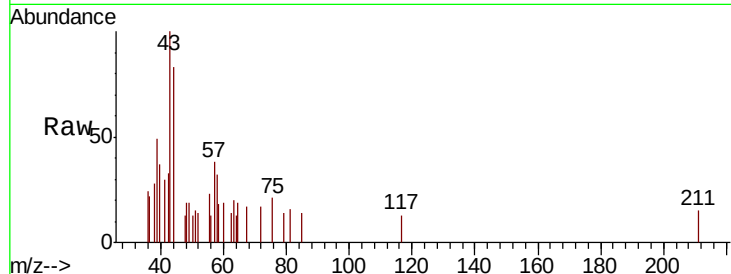




#51
4-Methyl-2-Pentanone
Concen: 0.273 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX010638.D
Acq: 03 Jul 2019 14:28

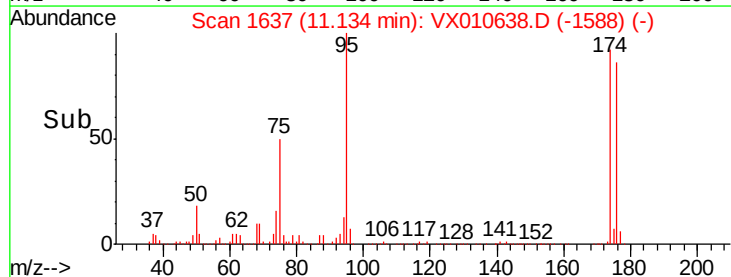
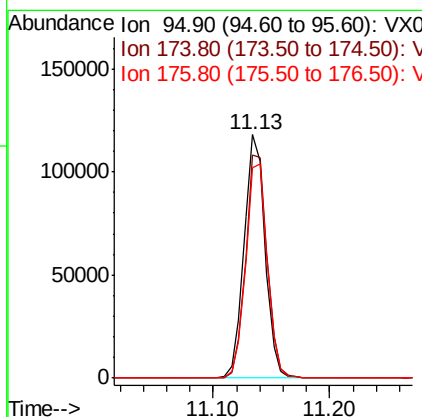
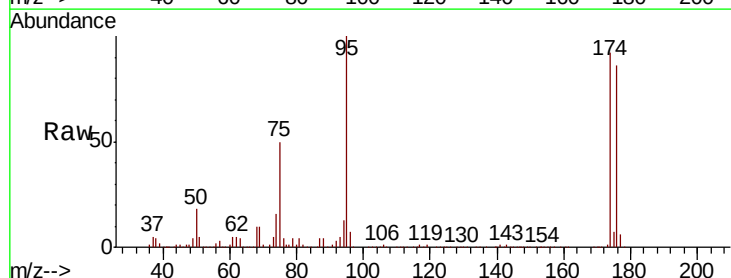
Instrument :
MSVOA_X
ClientSampled :
MW-1

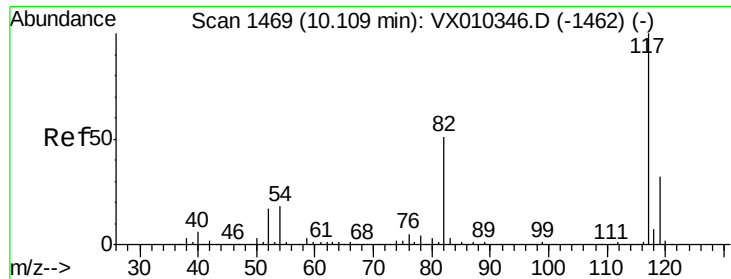
Tot Ion: 43 Resp: 883
Ion Ratio Lower Upper
43 100
58 41.7 33.5 50.3



#62
4-Bromofluorobenzene
Concen: 47.286 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010638.D
Acq: 03 Jul 2019 14:28

Tgt Ion: 95 Resp: 149331
Ion Ratio Lower Upper
95 100
174 94.3 0.0 187.6
176 90.8 0.0 184.0

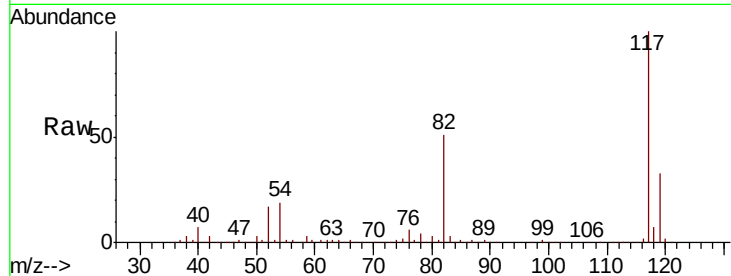




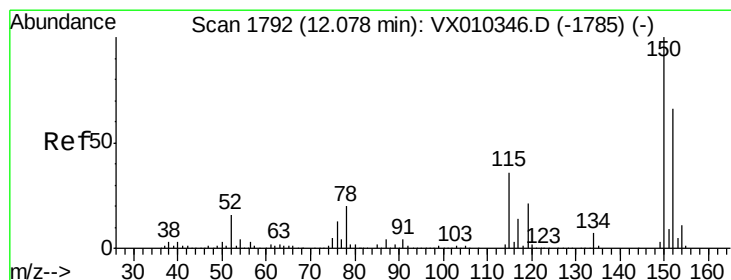
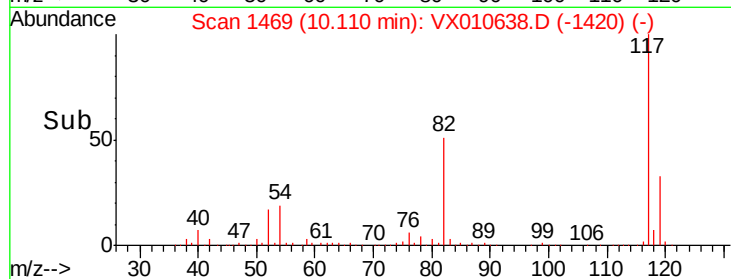
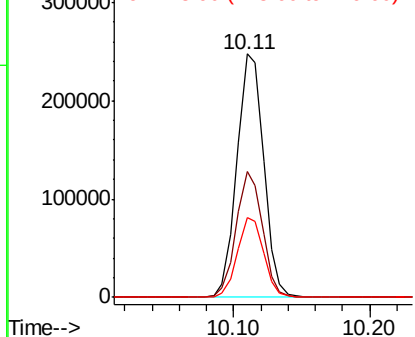
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010638.D
Acq: 03 Jul 2019 14:28

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Tot Ion:117 Resp: 340230
Ion Ratio Lower Upper
117 100
82 51.5 41.2 61.8
119 32.8 25.5 38.3

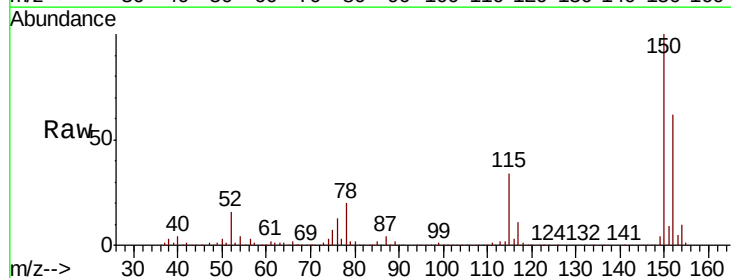


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

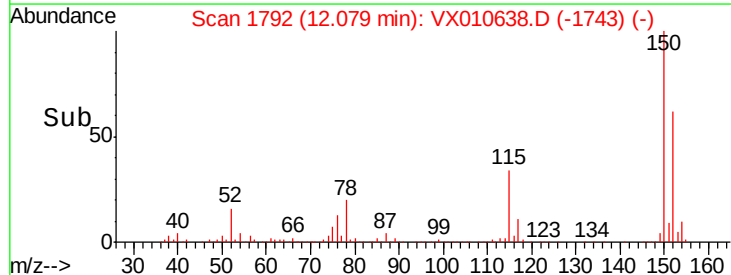
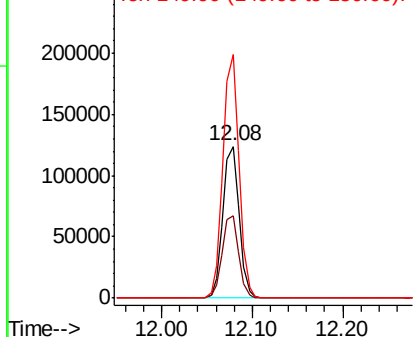


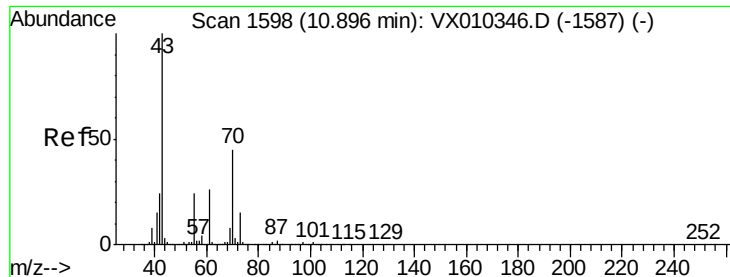
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010638.D
Acq: 03 Jul 2019 14:28

Tgt Ion:152 Resp: 155329
Ion Ratio Lower Upper
152 100
115 54.7 38.6 115.7
150 158.6 0.0 347.4



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





#74

N-amvl acetate

Concen: 0.256 ug/l

RT: 10.94 min Scan# 1605

Delta R.T. 0.04 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampleId :

MW-1

Tot Ion: 43 Resp: 1017

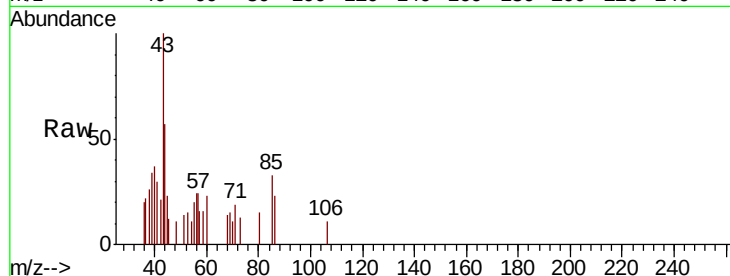
Ion Ratio Lower Upper

43 100

70 27.0 36.6 54.8#

55 0.0 18.7 28.1#

61 0.0 20.6 31.0#

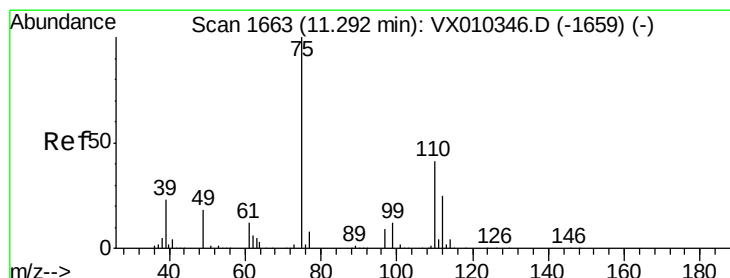
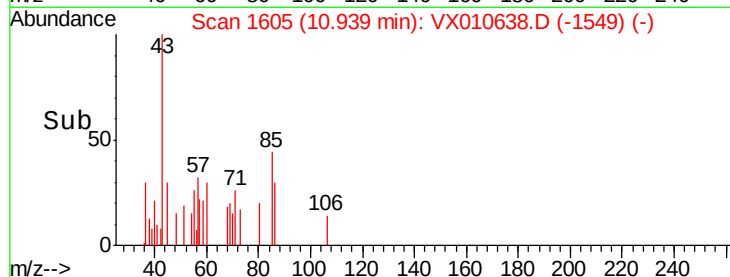
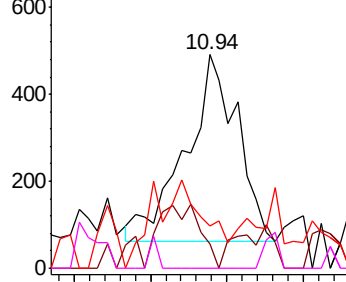


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.660 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010638.D

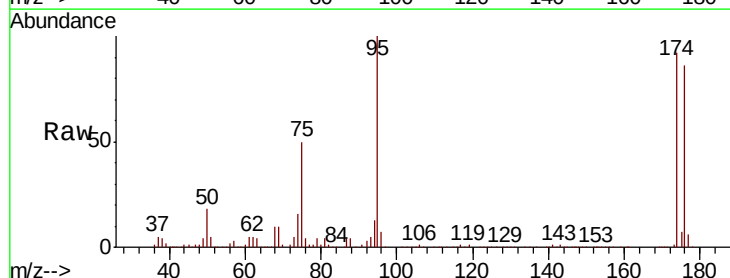
Acq: 03 Jul 2019 14:28

Tgt Ion: 75 Resp: 72632

Ion Ratio Lower Upper

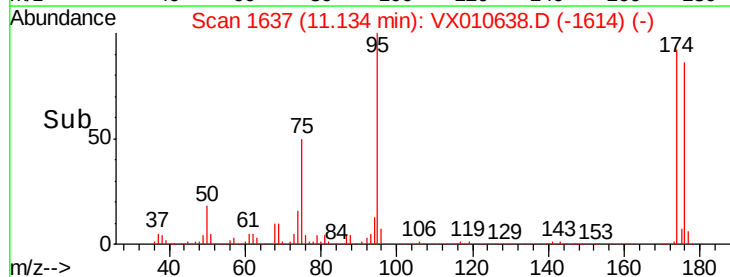
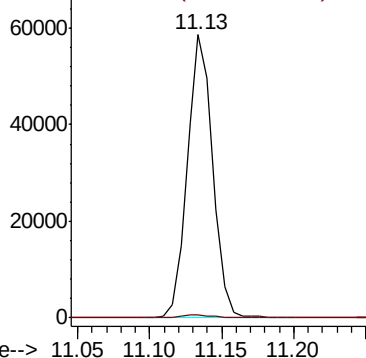
75 100

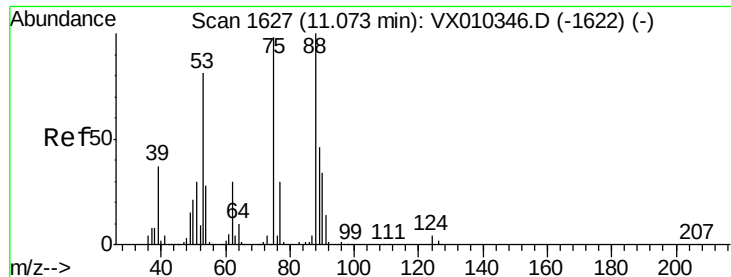
77 1.4 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.863 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampleId :

MW-1

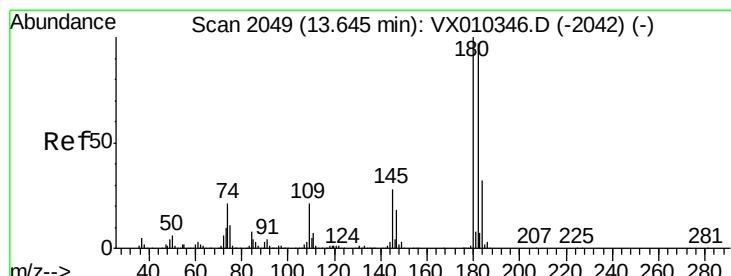
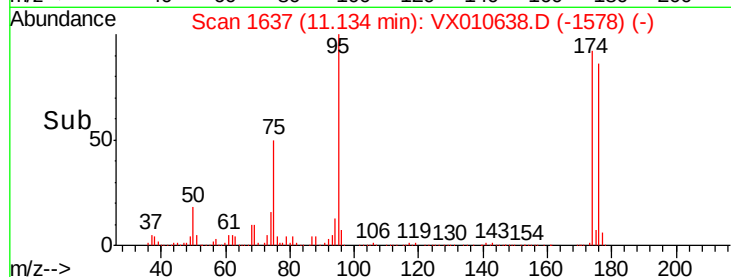
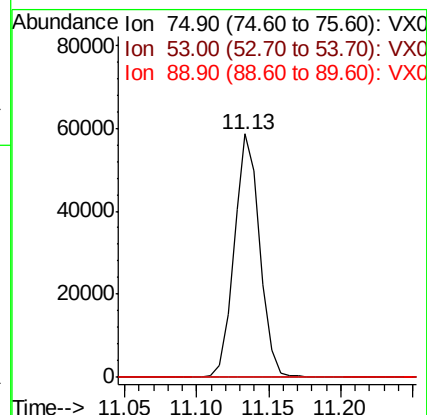
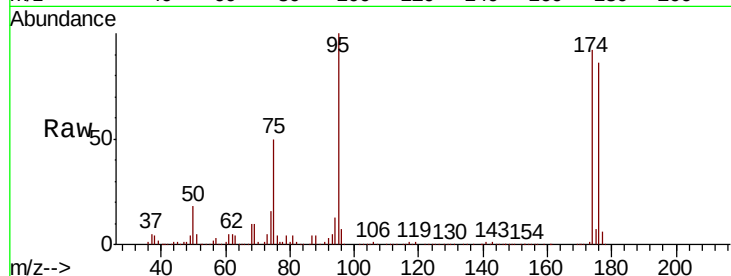
Tot Ion: 75 Resp: 72632

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.1 37.8 56.6#



#93

1,2,4-Trichlorobenzene

Concen: 0.250 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

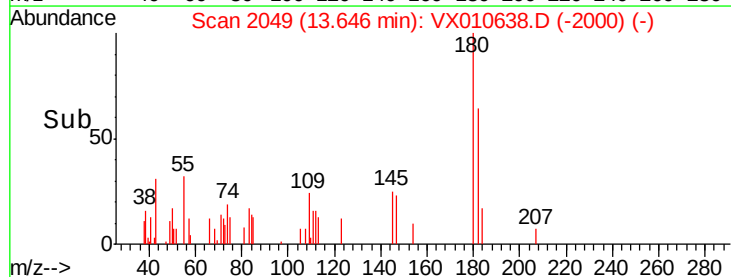
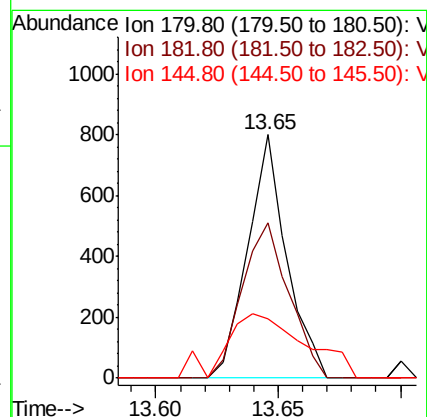
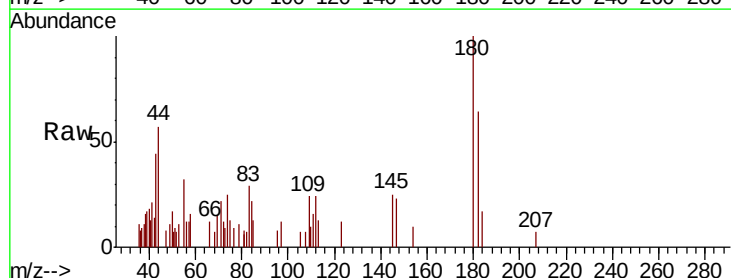
Tgt Ion:180 Resp: 885

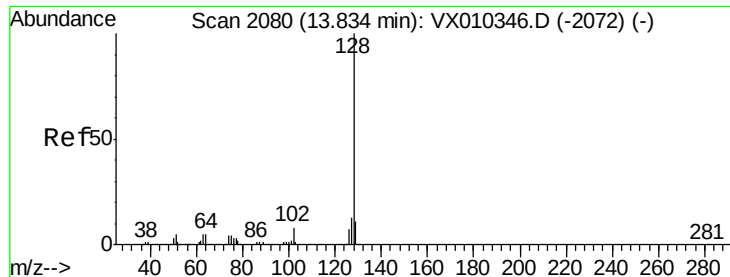
Ion Ratio Lower Upper

180 100

182 76.5 48.0 144.0

145 54.6 14.4 43.4#





#95

Naphthalene

Concen: 0.307 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

Instrument :

MSVOA_X

ClientSampleId :

MW-1

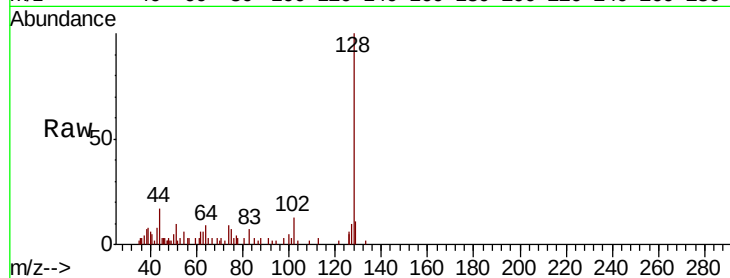
Tot Ion:128 Resp: 3341

Ion Ratio Lower Upper

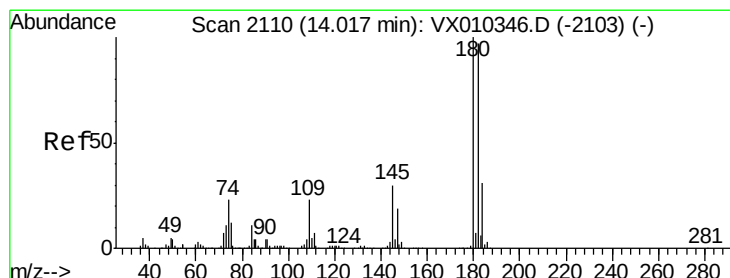
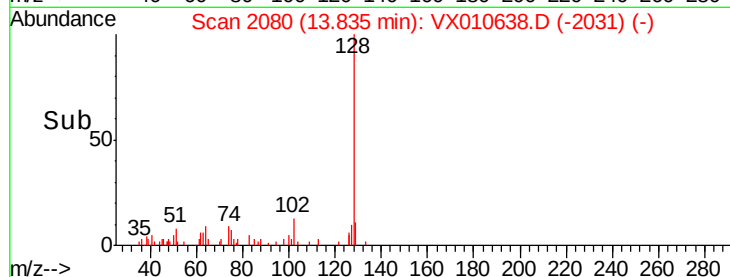
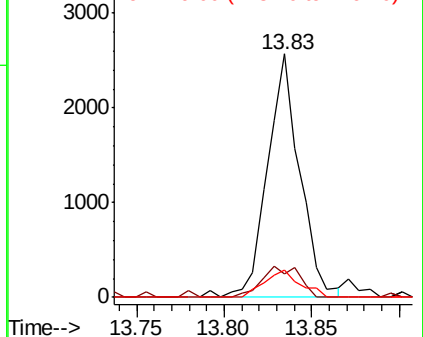
128 100

127 14.8 10.2 15.4

129 12.4 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.247 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX010638.D

Acq: 03 Jul 2019 14:28

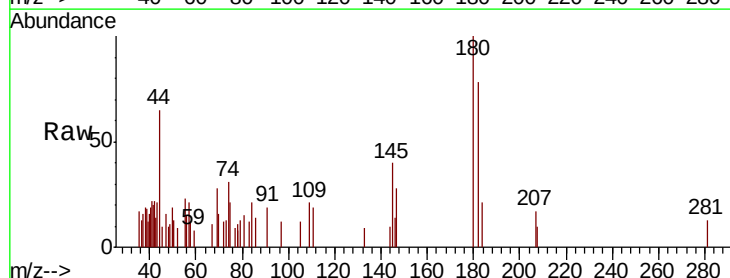
Tgt Ion:180 Resp: 867

Ion Ratio Lower Upper

180 100

182 78.7 47.8 143.3

145 48.0 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

