

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071019\
 Data File : VX010784.D
 Acq On : 10 Jul 2019 17:56
 Operator : JC/SP
 Sample : K3738-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

Quant Time: Jul 11 01:16:59 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	209738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	333430	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	306169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144311	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	108010	54.92	ug/l	0.00
Spiked Amount			Recovery	=	109.84%	
35) Dibromofluoromethane	5.50	113	102492	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
50) Toluene-d8	8.71	98	398873	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.13	95	135125	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	

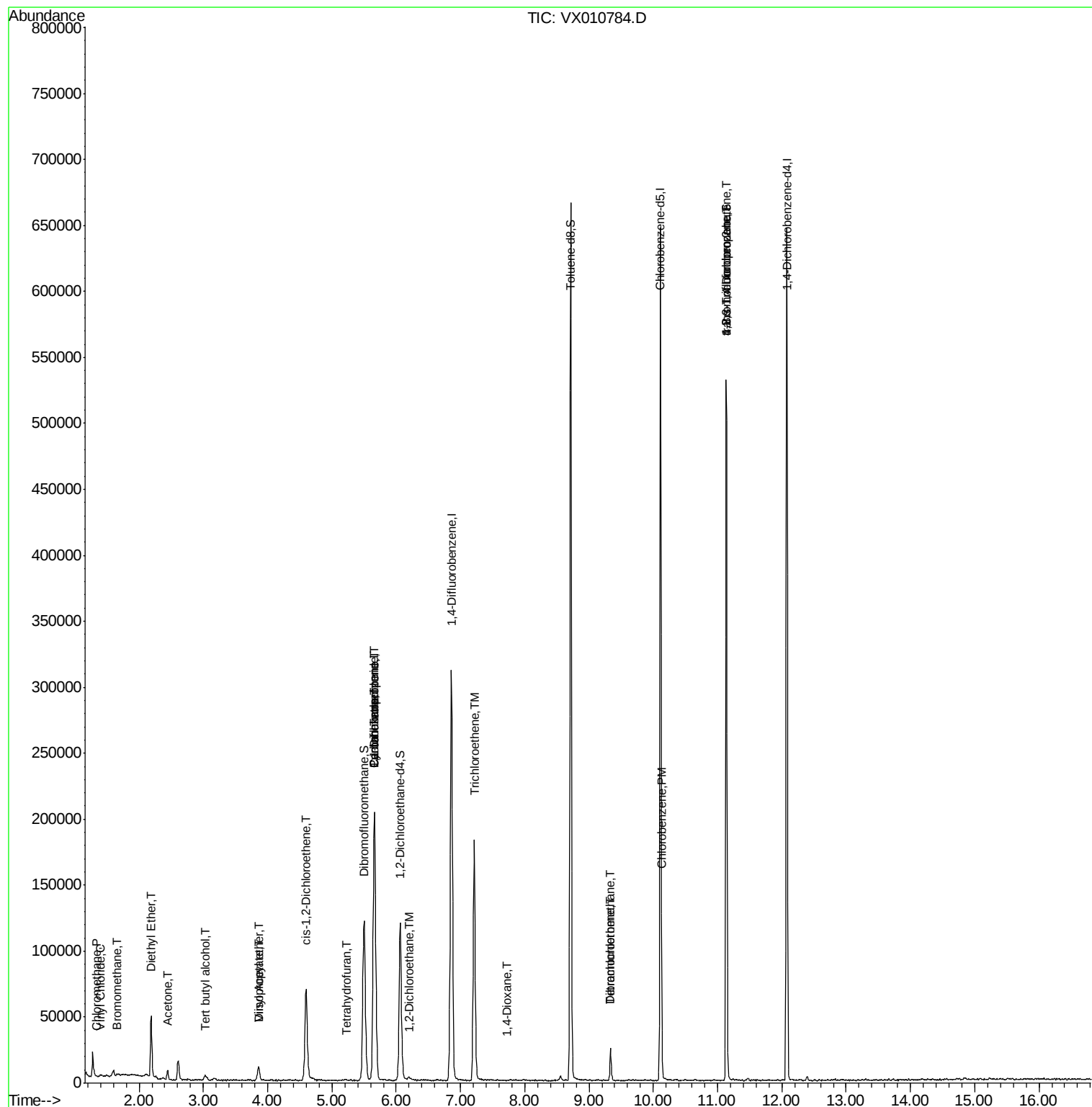
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	515	0.303	ug/l	100
4) Vinyl Chloride	1.41	62	793	0.426	ug/l	98
5) Bromomethane	1.65	94	274	0.302	ug/l	90
8) Diethyl Ether	2.19	74	16420	15.531	ug/l	94
11) Tert butyl alcohol	3.03	59	3537	6.874	ug/l #	90
16) Acetone	2.45	43	7531	7.641	ug/l	98
22) Diisopropyl ether	3.85	45	11032	2.044	ug/l #	77
23) Vinyl Acetate	3.86	43	6102	1.309	ug/l #	68
27) cis-1,2-Dichloroethene	4.60	96	48254	21.357	ug/l	90
29) Tetrahydrofuran	5.23	42	193	0.216	ug/l	93
31) Cyclohexane	5.67	56	3667	1.291	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13780	5.201	ug/l #	48
38) Carbon Tetrachloride	5.67	117	18952	6.605	ug/l #	15
42) 1,2-Dichloroethane	6.20	62	2185	0.870	ug/l	80
44) Trichloroethene	7.21	130	72404	29.313	ug/l	98
49) 1,4-Dioxane	7.73	88	22	0.364	ug/l #	1
60) Dibromochloromethane	9.34	129	4473	1.782	ug/l #	11
64) Tetrachloroethene	9.34	164	4859	1.962	ug/l	89
65) Chlorobenzene	10.13	112	2747	0.442	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	65659	24.968	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	65659	58.248	ug/l #	16

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampled :

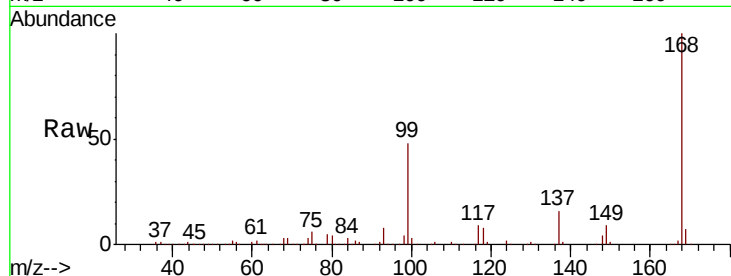
MW-1

Tot Ion:168 Resp: 209738

Ion Ratio Lower Upper

168 100

99 47.4 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

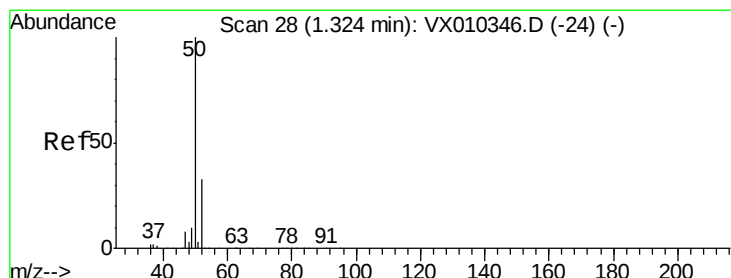
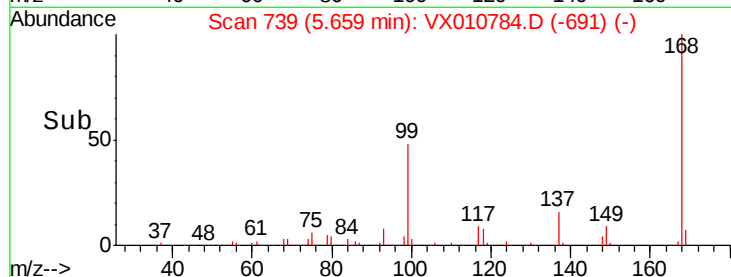
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.303 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010784.D

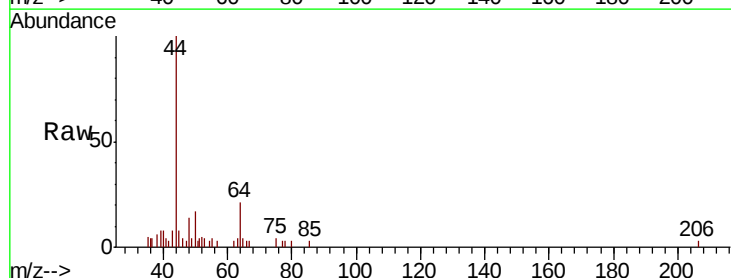
Acq: 10 Jul 2019 17:56

Tgt Ion: 50 Resp: 515

Ion Ratio Lower Upper

50 100

52 33.1 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

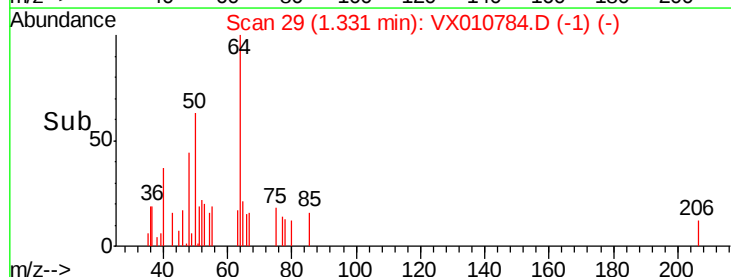
300

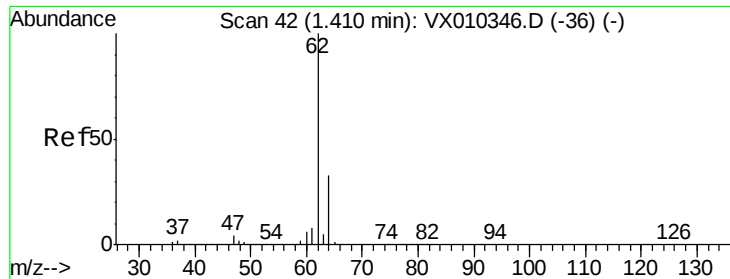
200

100

0

Time--> 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.426 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampled :

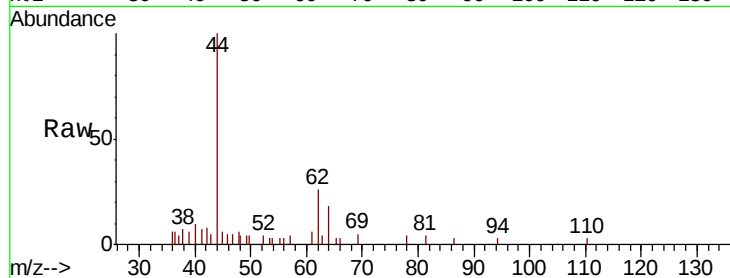
MW-1

Tot Ion: 62 Resp: 793

Ion Ratio Lower Upper

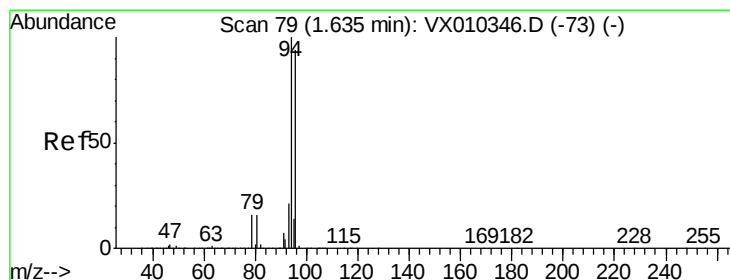
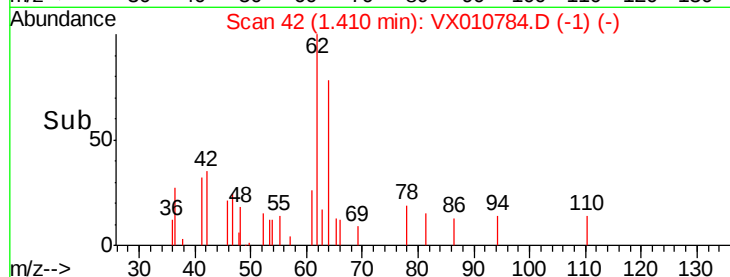
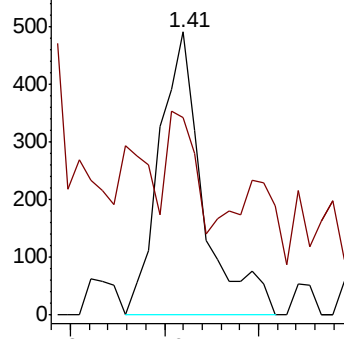
62 100

64 31.6 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.302 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010784.D

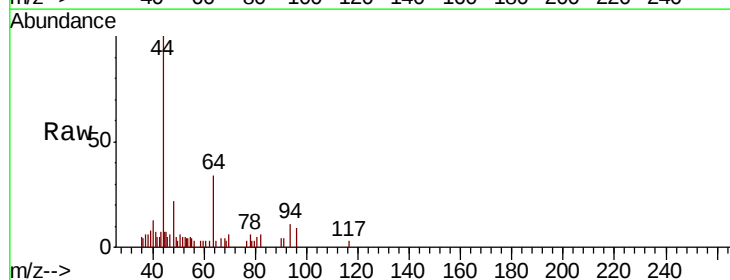
Acq: 10 Jul 2019 17:56

Tgt Ion: 94 Resp: 274

Ion Ratio Lower Upper

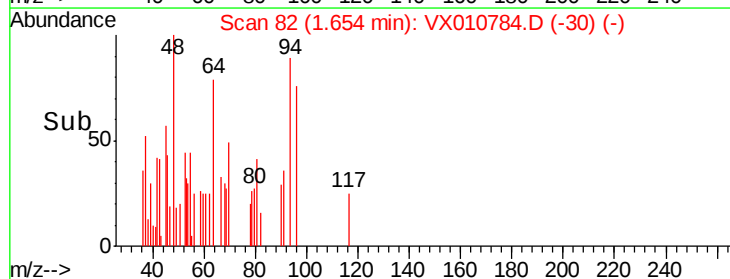
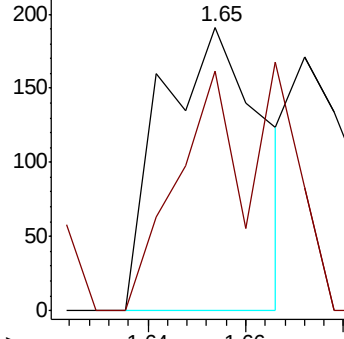
94 100

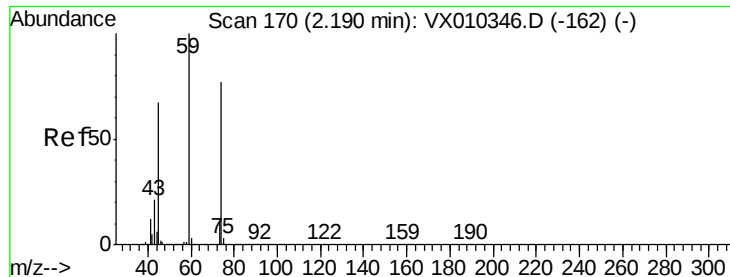
96 84.8 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 15.531 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

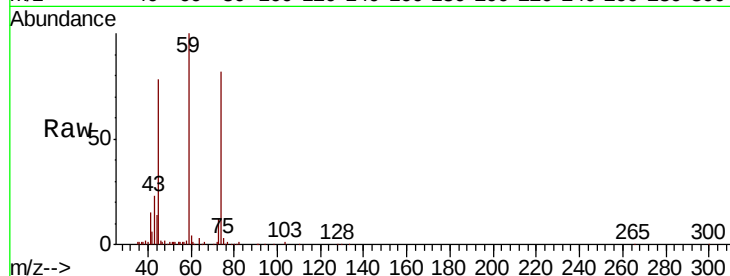
MW-1

Tot Ion: 74 Resp: 16420

Ion Ratio Lower Upper

74 100

45 94.9 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

12000

10000

8000

6000

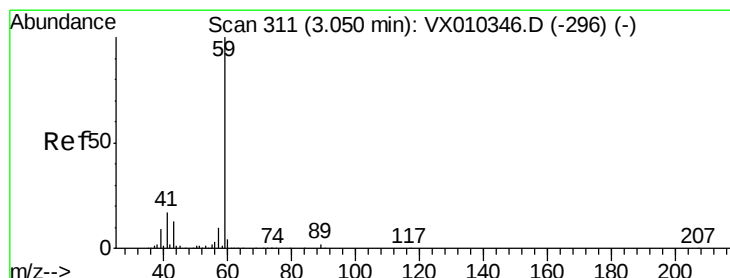
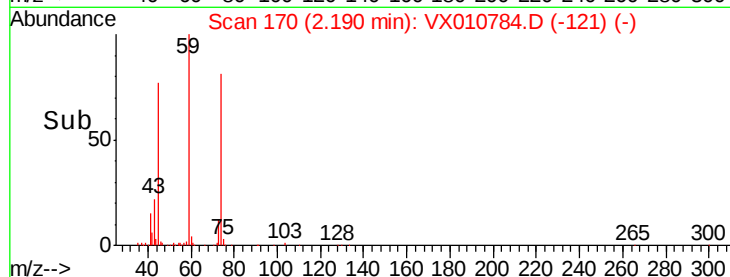
4000

2000

0

2.10 2.15 2.20 2.25 2.30

Time-->



#11

Tert butyl alcohol

Concen: 6.874 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX010784.D

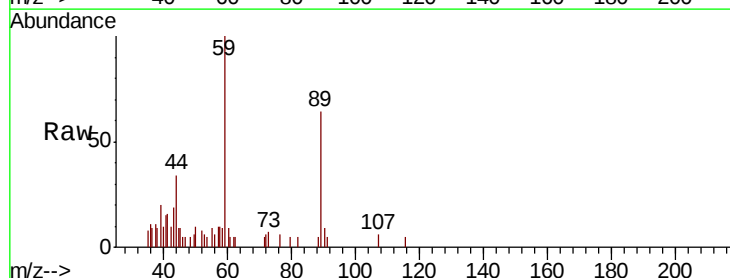
Acq: 10 Jul 2019 17:56

Tgt Ion: 59 Resp: 3537

Ion Ratio Lower Upper

59 100

57 13.3 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

1200

1000

800

600

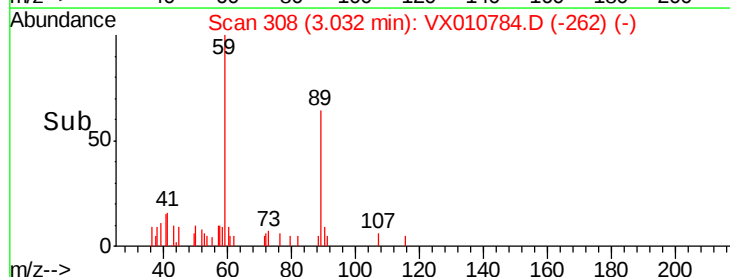
400

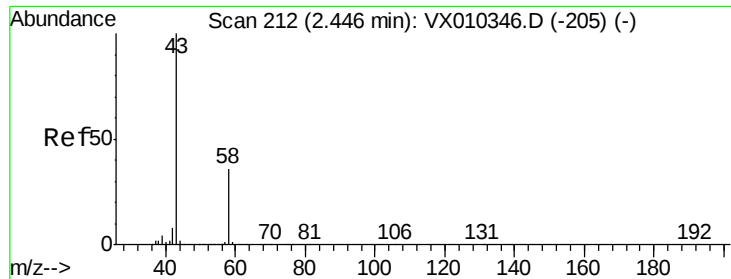
200

0

2.95 3.00 3.05 3.10 3.15

Time-->





#16

Acetone

Concen: 7.641 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

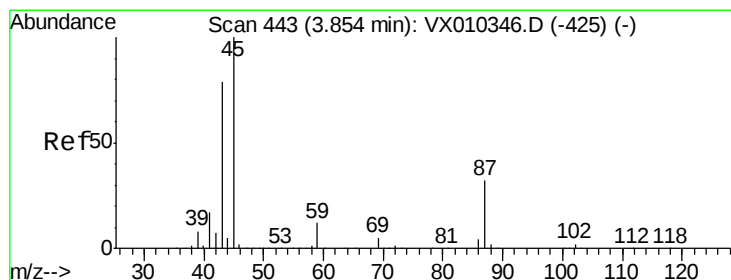
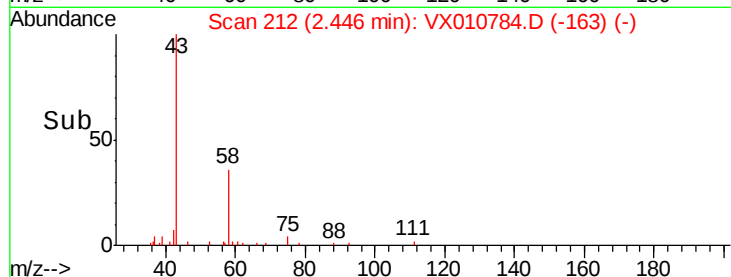
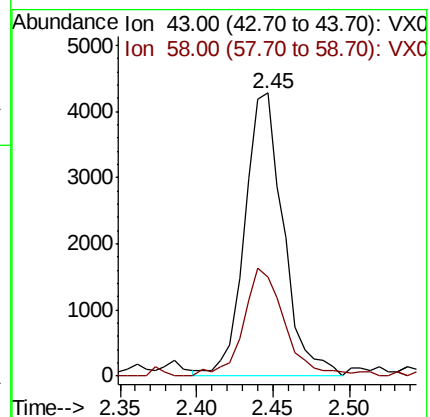
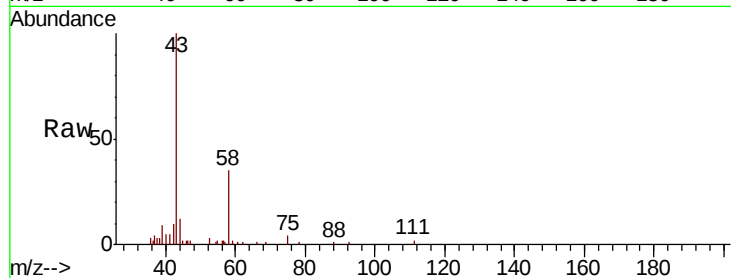
MW-1

Tot Ion: 43 Resp: 7531

Ion Ratio Lower Upper

43 100

58 35.2 28.9 43.3



#22

Diisopropyl ether

Concen: 2.044 ug/l

RT: 3.85 min Scan# 443

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Tgt Ion: 45 Resp: 11032

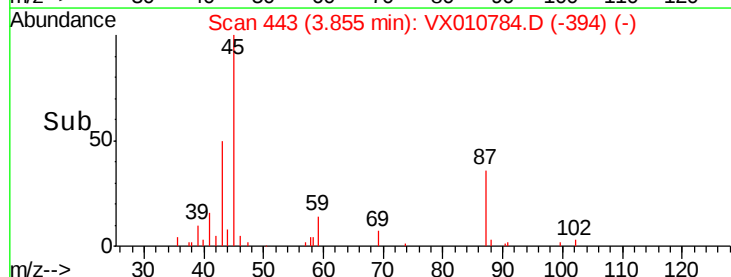
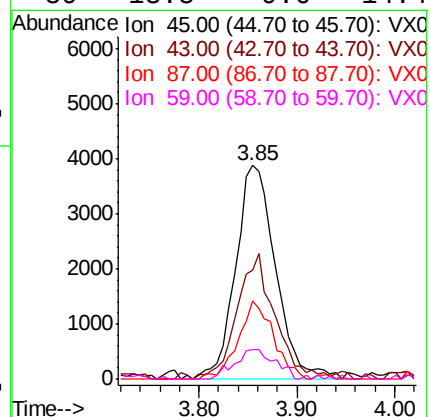
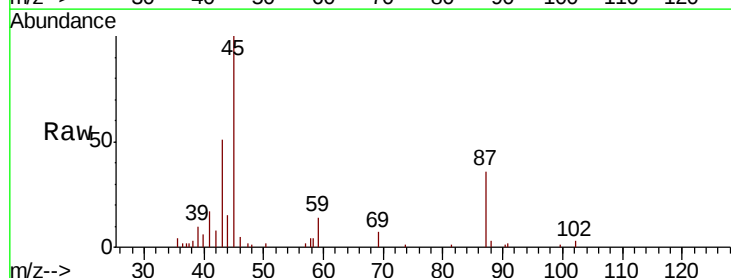
Ion Ratio Lower Upper

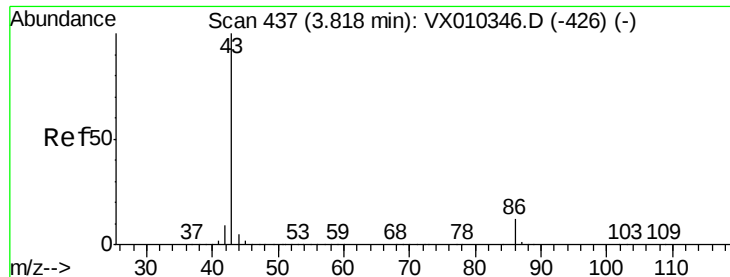
45 100

43 50.9 63.3 94.9#

87 36.4 25.8 38.8

59 13.8 9.6 14.4





#23

Vinyl Acetate

Concen: 1.309 ug/l

RT: 3.86 min Scan# 444

Delta R.T. 0.04 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampled :

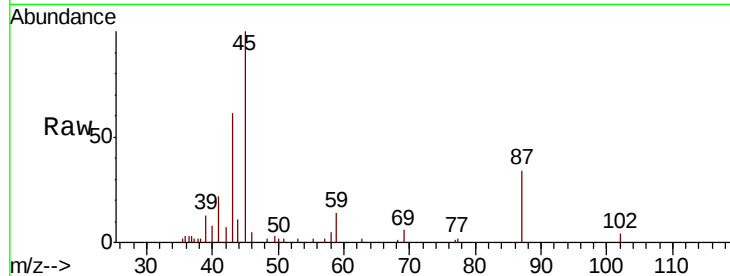
MW-1

Tot Ion: 43 Resp: 6102

Ion Ratio Lower Upper

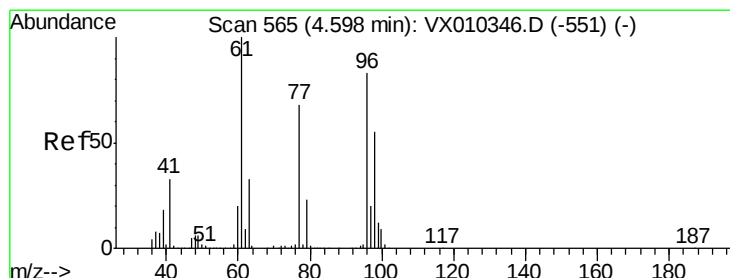
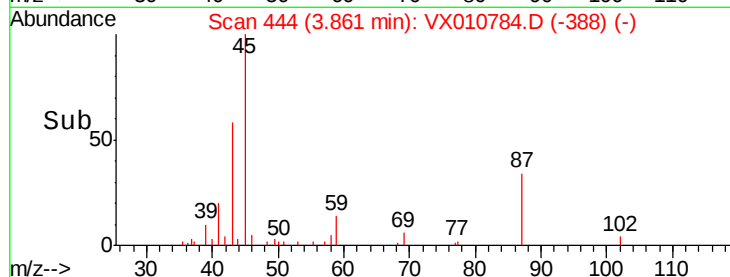
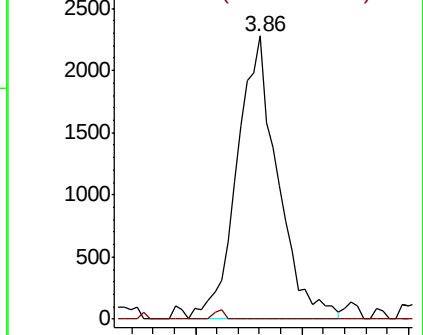
43 100

86 0.0 9.9 14.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 21.357 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

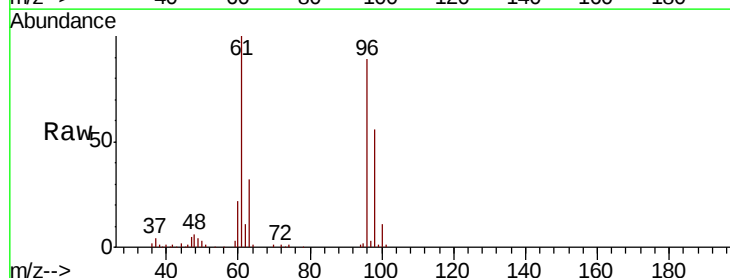
Tgt Ion: 96 Resp: 48254

Ion Ratio Lower Upper

96 100

61 109.7 0.0 251.8

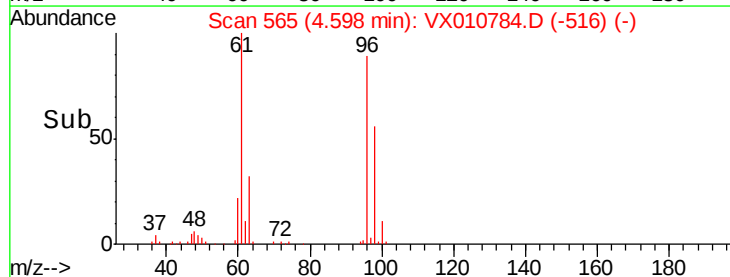
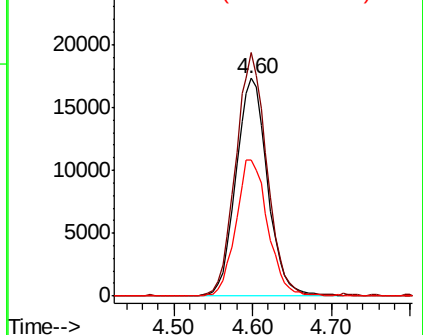
98 63.1 0.0 129.4

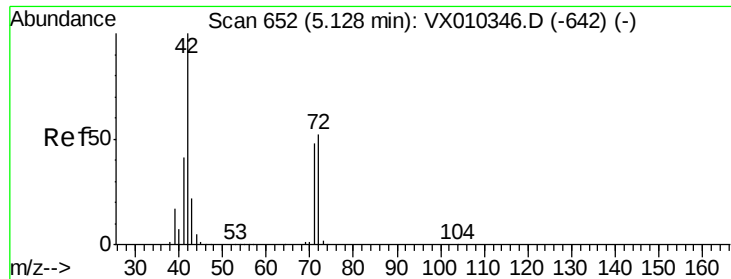


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

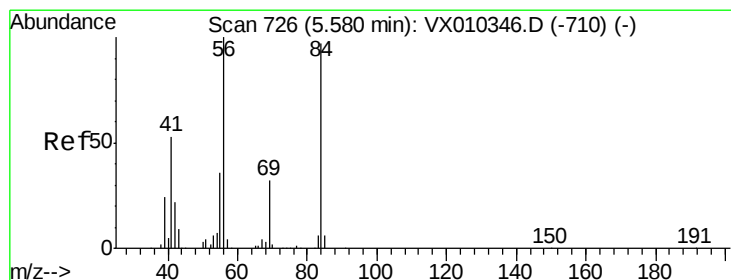
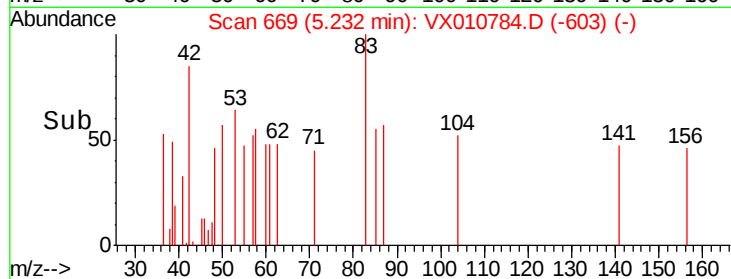
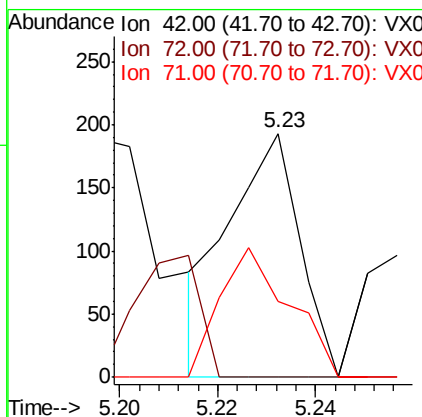
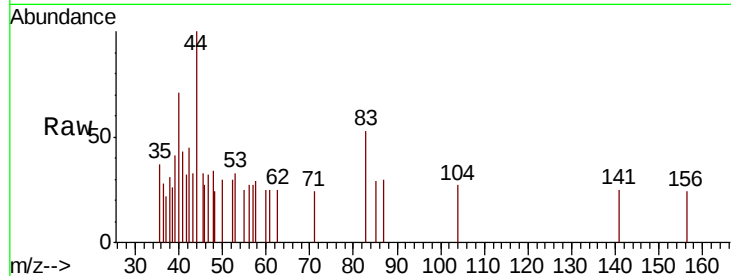




#29
Tetrahydrofuran
Concen: 0.216 ug/l
RT: 5.23 min Scan# 669
Delta R.T. 0.10 min
Lab File: VX010784.D
Acq: 10 Jul 2019 17:56

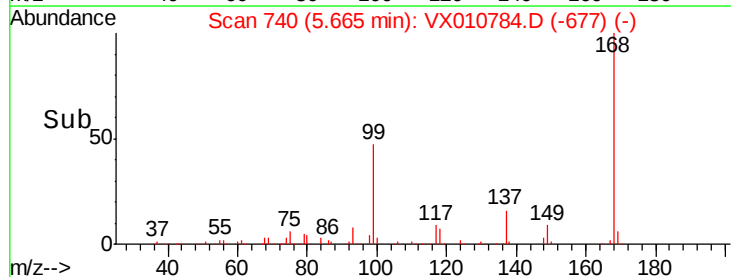
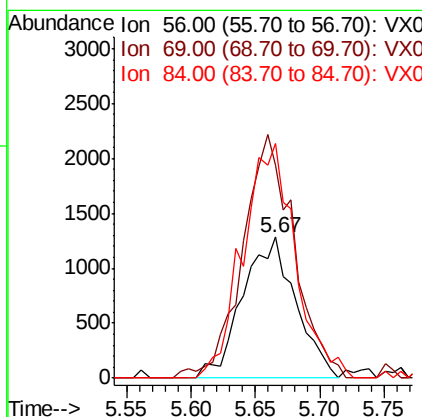
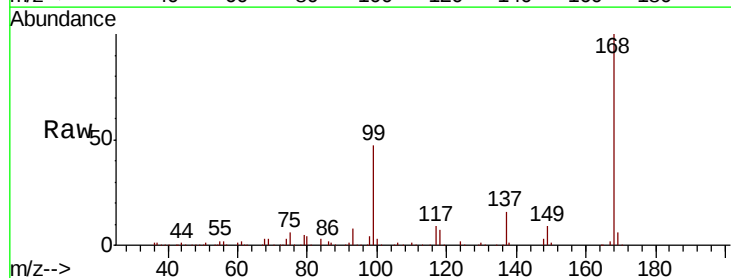
Instrument :
MSVOA_X
ClientSampled :
MW-1

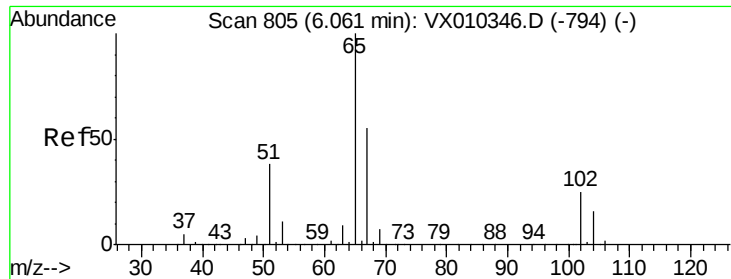
Tot Ion: 42 Resp: 193
Ion Ratio Lower Upper
42 100
72 45.6 40.6 60.8
71 52.3 37.8 56.8



#31
Cyclohexane
Concen: 1.291 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX010784.D
Acq: 10 Jul 2019 17:56

Tgt Ion: 56 Resp: 3667
Ion Ratio Lower Upper
56 100
69 144.3 25.9 38.9#
84 166.9 78.0 117.0#

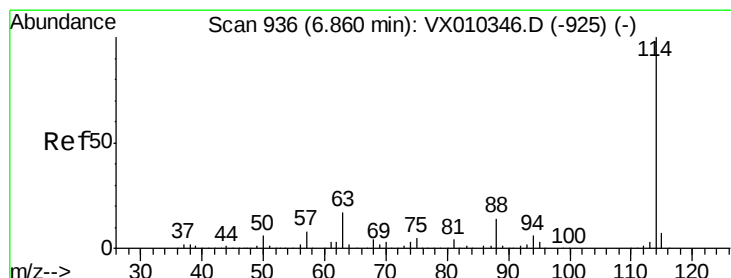
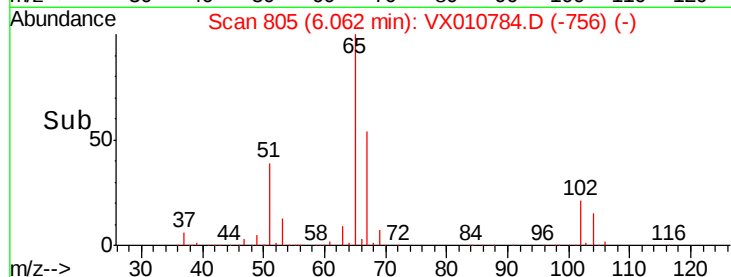
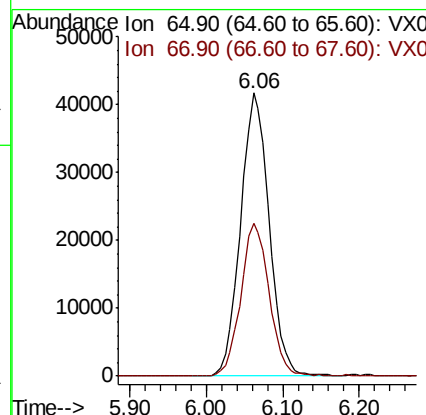
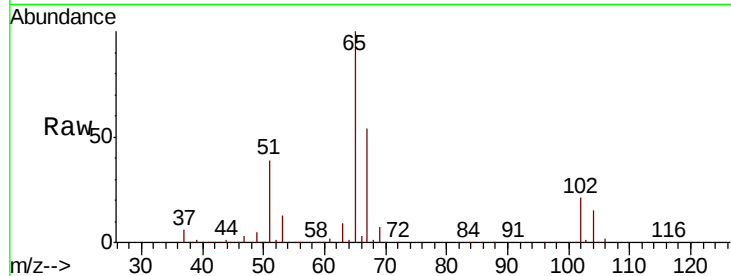




#33
 1,2-Dichloroethane-d4
 Concen: 54.925 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010784.D
 Acq: 10 Jul 2019 17:56

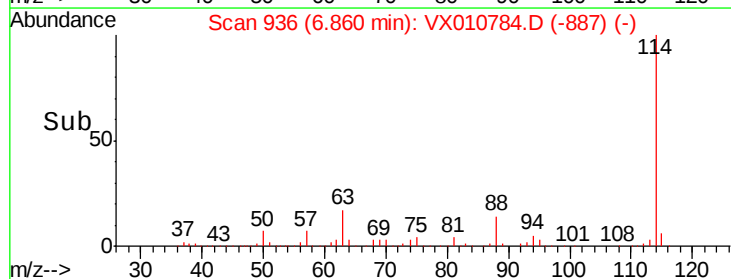
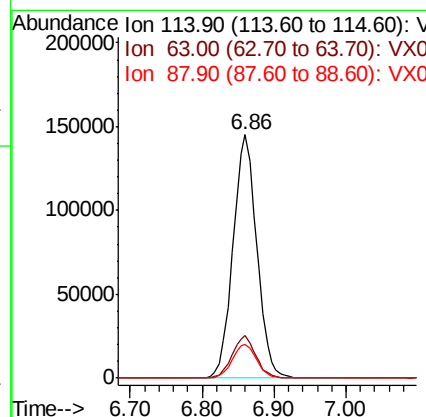
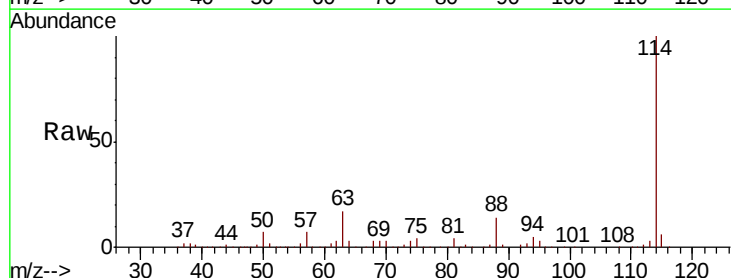
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

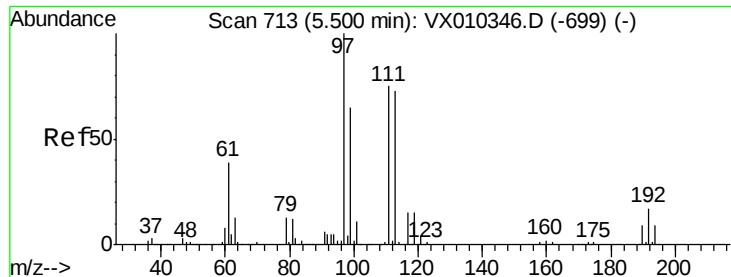
Tot Ion: 65 Resp: 108010
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010784.D
 Acq: 10 Jul 2019 17:56

Tgt Ion: 114 Resp: 333430
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 33.8
 88 14.1 0.0 27.6





#35

Dibromofluoromethane

Concen: 50.240 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-1

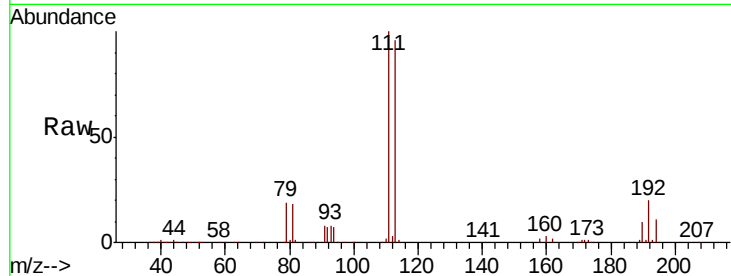
Tot Ion:113 Resp: 102492

Ion Ratio Lower Upper

113 100

111 101.4 81.2 121.8

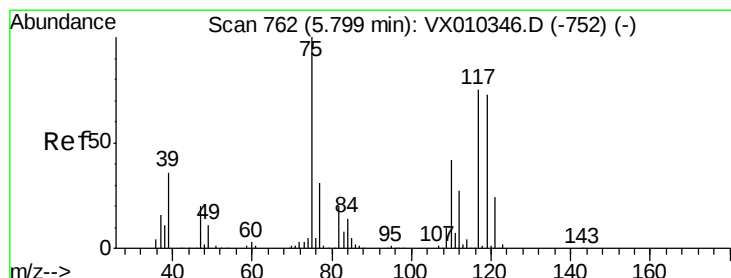
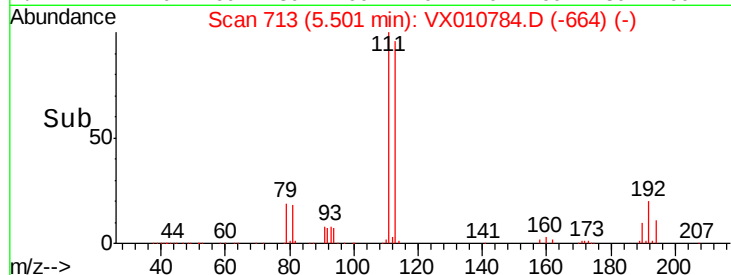
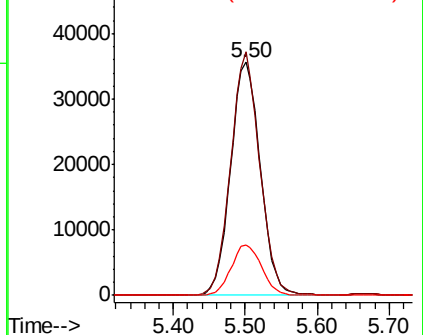
192 22.1 18.6 27.8



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: 5.201 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

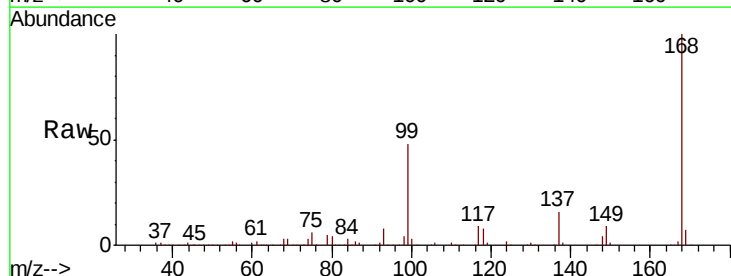
Tgt Ion: 75 Resp: 13780

Ion Ratio Lower Upper

75 100

110 11.1 20.8 62.2#

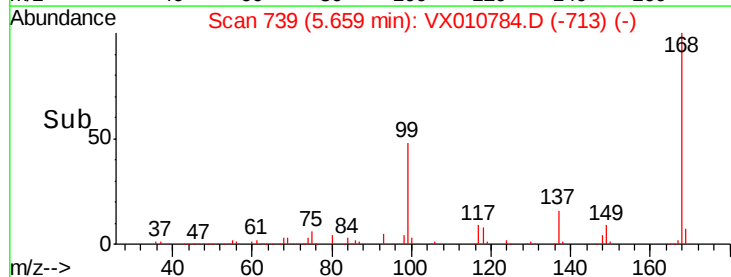
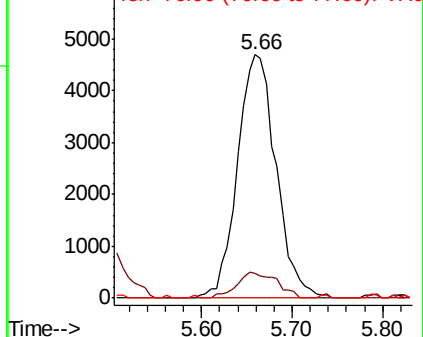
77 0.0 25.4 38.0#

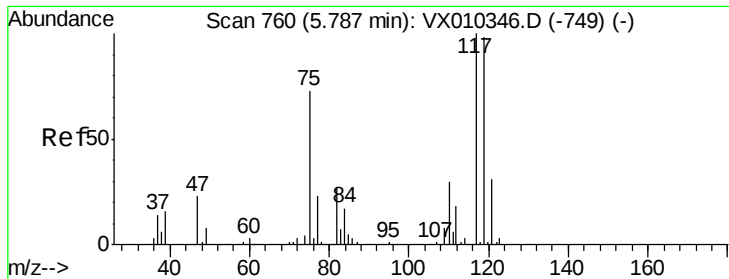


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.605 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-1

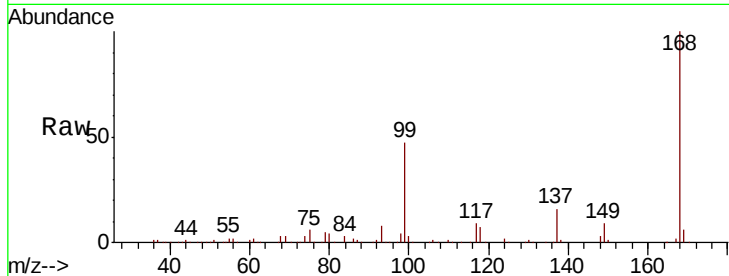
Tot Ion:117 Resp: 18952

Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.4#

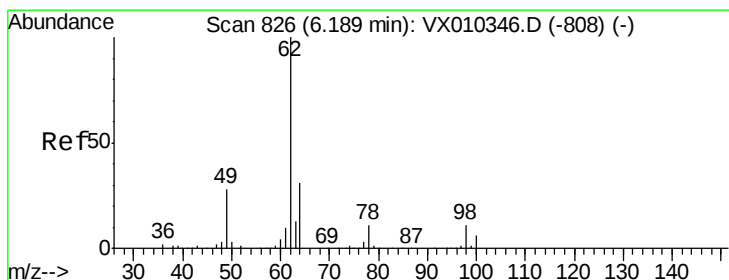
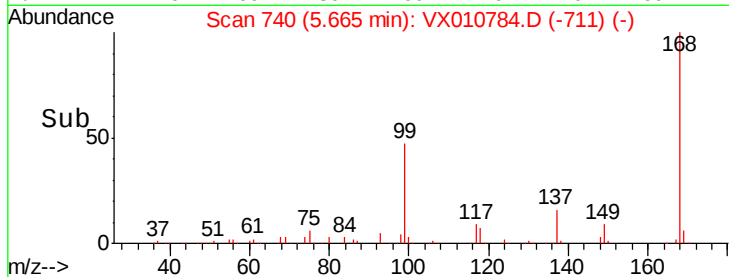
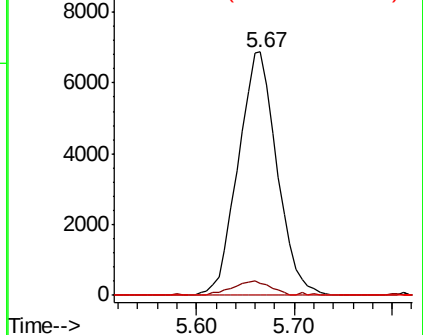
121 0.0 24.7 37.1#



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



#42

1,2-Dichloroethane

Concen: 0.870 ug/l

RT: 6.20 min Scan# 827

Delta R.T. 0.01 min

Lab File: VX010784.D

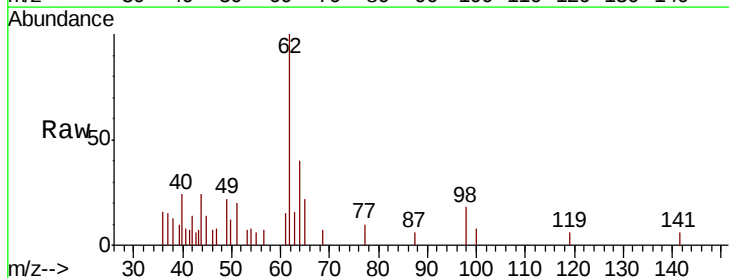
Acq: 10 Jul 2019 17:56

Tgt Ion: 62 Resp: 2185

Ion Ratio Lower Upper

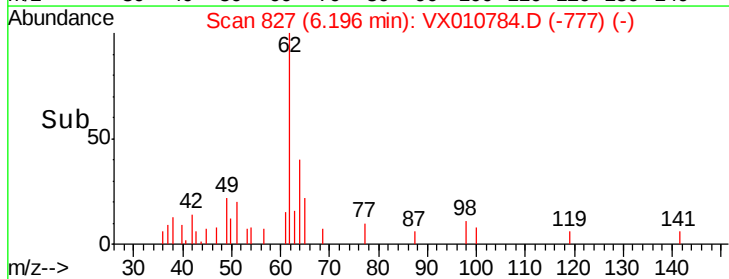
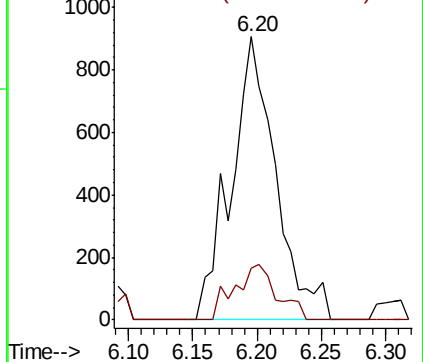
62 100

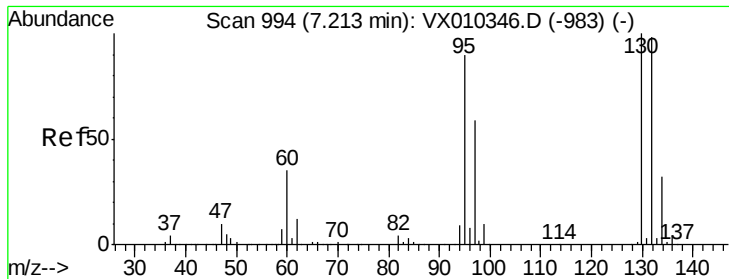
98 18.7 0.0 22.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 29.313 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

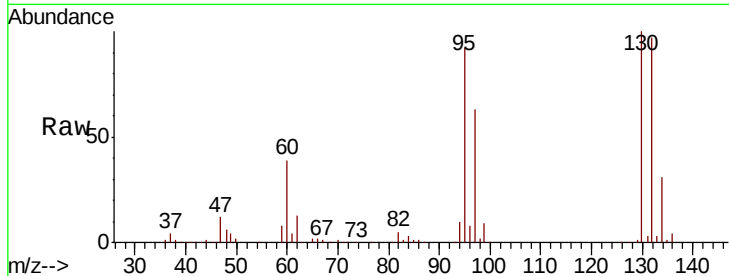
MW-1

Tot Ion:130 Resp: 72404

Ion Ratio Lower Upper

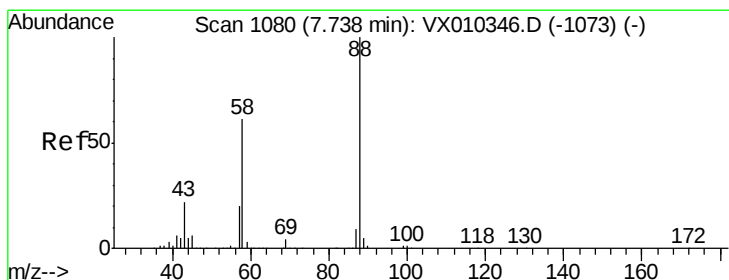
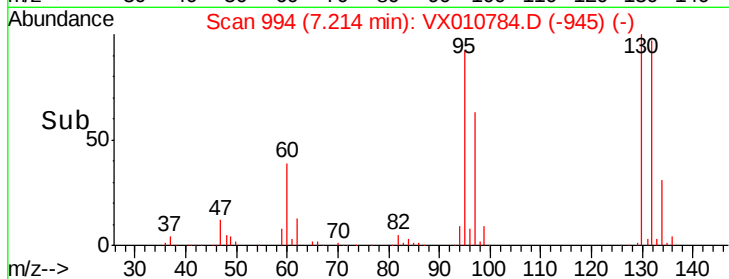
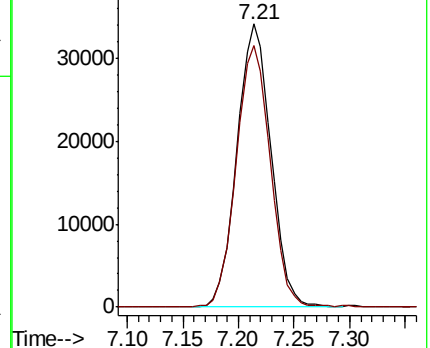
130 100

95 92.1 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.364 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

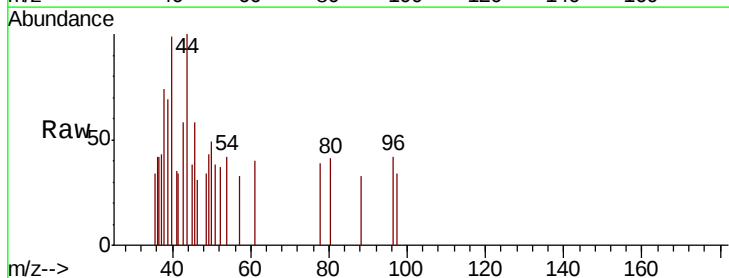
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 727.3 20.2 30.2#

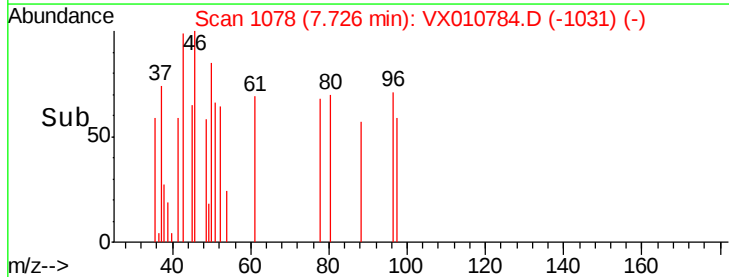
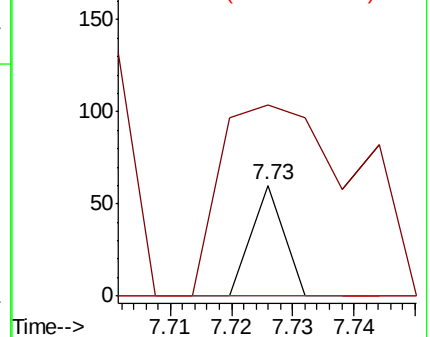
58 0.0 49.5 74.3#

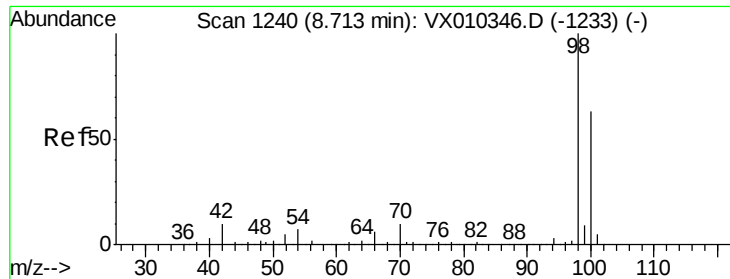


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.106 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

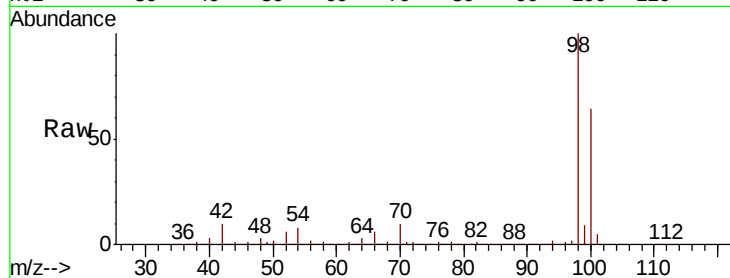
MW-1

Tot Ion: 98 Resp: 398873

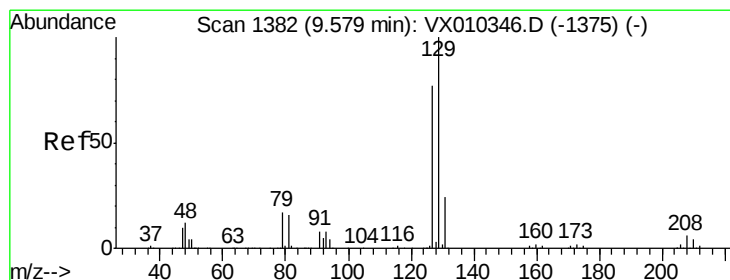
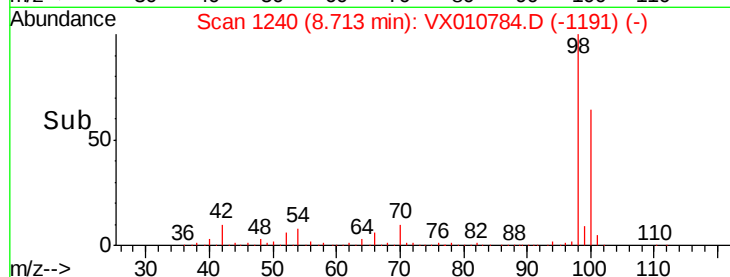
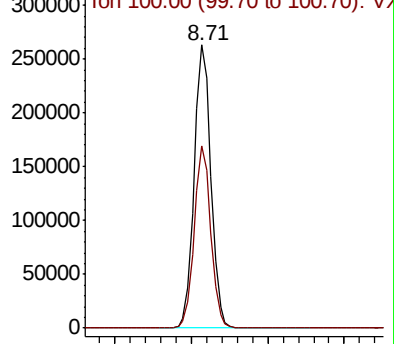
Ion Ratio Lower Upper

98 100

100 63.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX010784.D (-1191) (-)



#60

Dibromochloromethane

Concen: 1.782 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010784.D

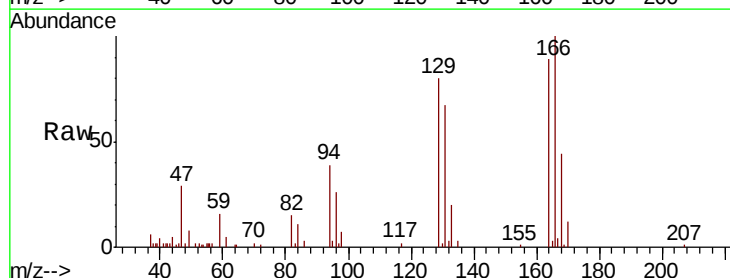
Acq: 10 Jul 2019 17:56

Tgt Ion: 129 Resp: 4473

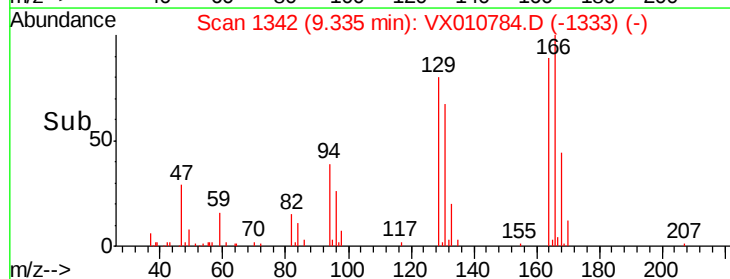
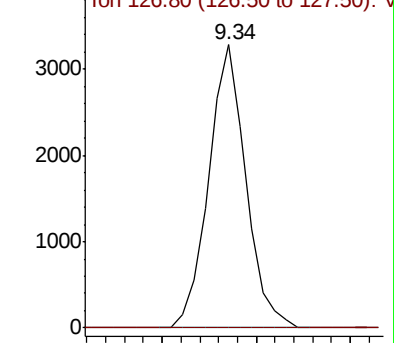
Ion Ratio Lower Upper

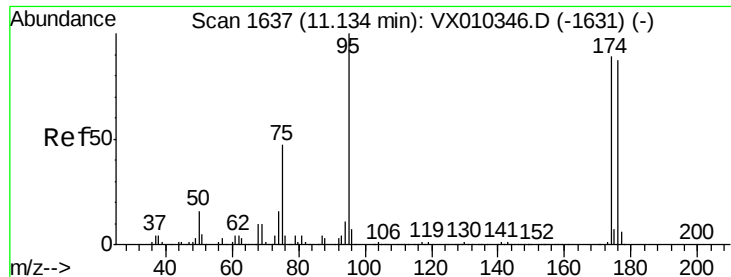
129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): VX010784.D (-1333) (-)





#62

4-Bromofluorobenzene

Concen: 47.955 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-1

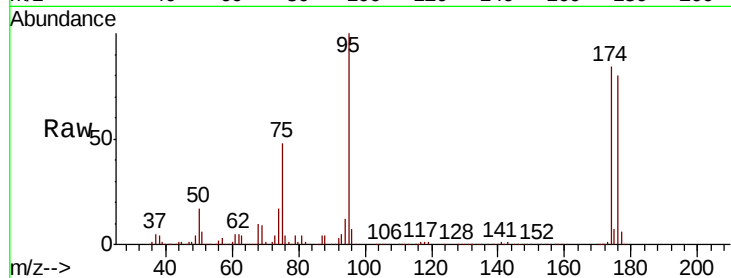
Tot Ion: 95 Resp: 135125

Ion Ratio Lower Upper

95 100

174 92.8 0.0 187.6

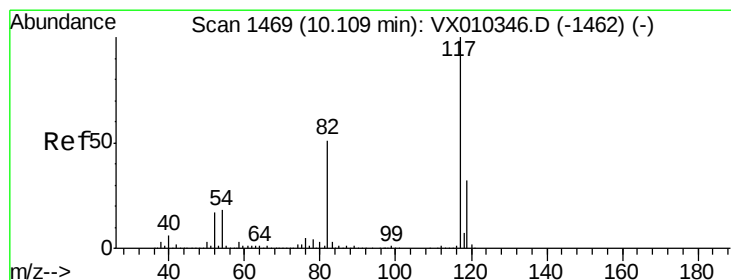
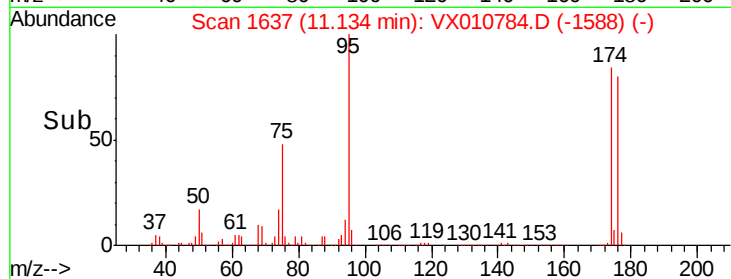
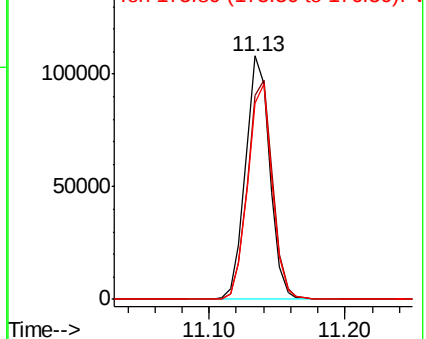
176 89.3 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010784.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010784.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010784.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

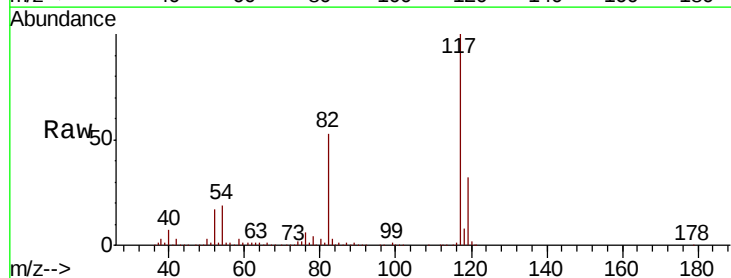
Tgt Ion: 117 Resp: 306169

Ion Ratio Lower Upper

117 100

82 52.6 41.2 61.8

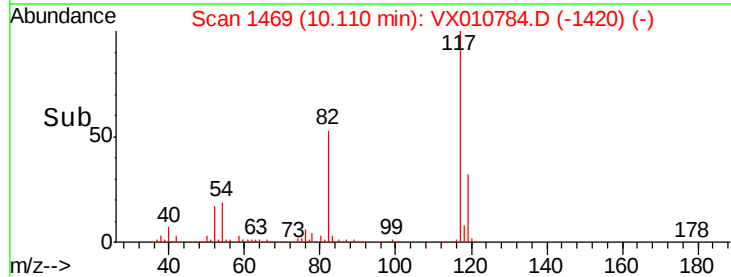
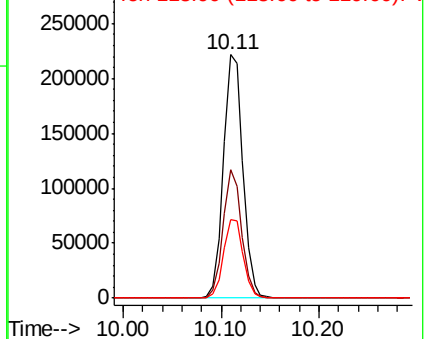
119 32.4 25.5 38.3

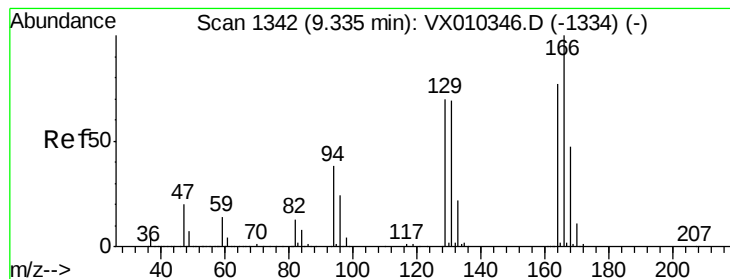


Abundance Ion 116.90 (116.60 to 117.60): VX010784.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010784.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010784.D (-1420) (-)





#64

Tetrachloroethene

Concen: 1.962 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-1

Tot Ion:164 Resp: 4859

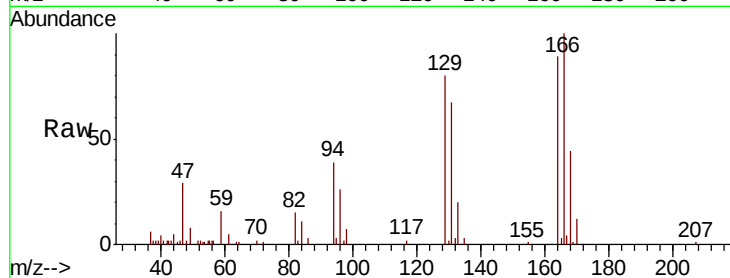
Ion Ratio Lower Upper

164 100

166 112.2 103.6 155.4

129 90.1 73.0 109.4

131 75.0 71.0 106.4

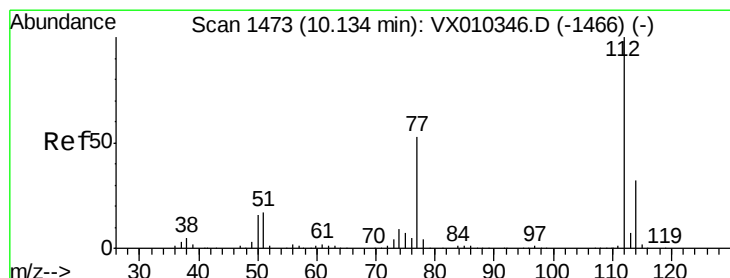
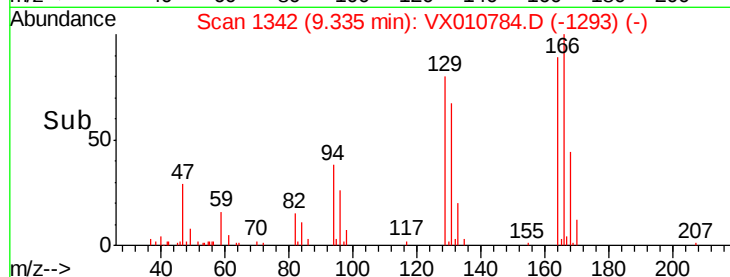
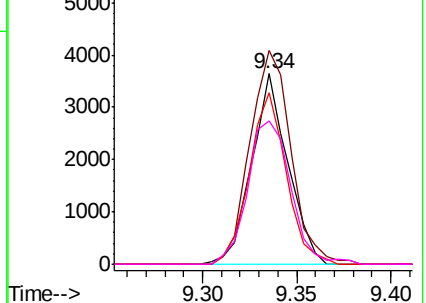


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.442 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VX010784.D

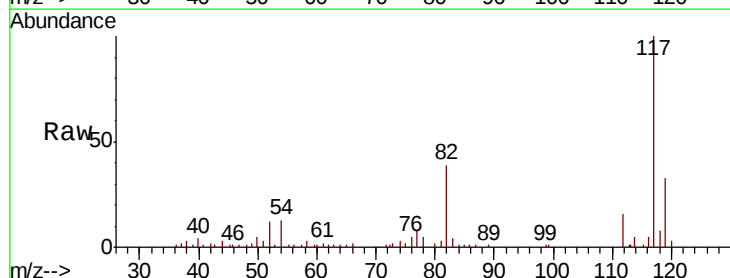
Acq: 10 Jul 2019 17:56

Tgt Ion:112 Resp: 2747

Ion Ratio Lower Upper

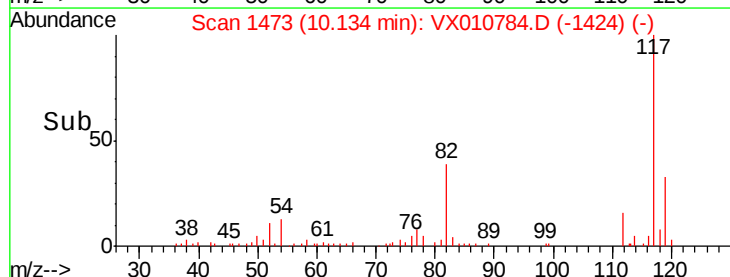
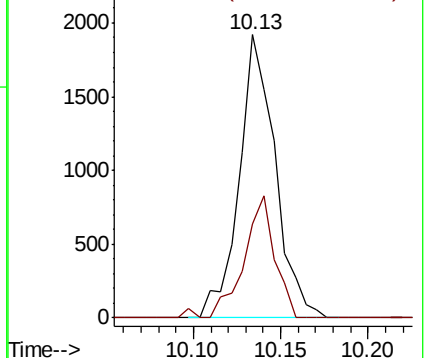
112 100

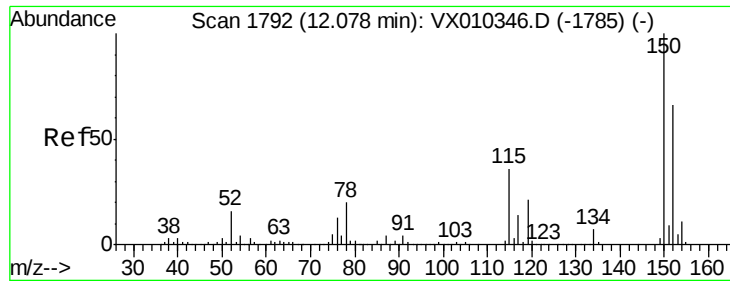
114 33.2 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-1

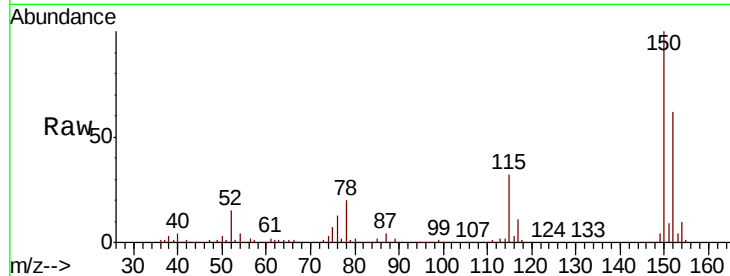
Tot Ion:152 Resp: 144311

Ion Ratio Lower Upper

152 100

115 54.0 38.6 115.7

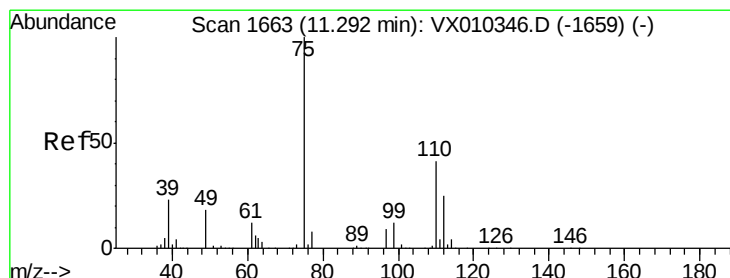
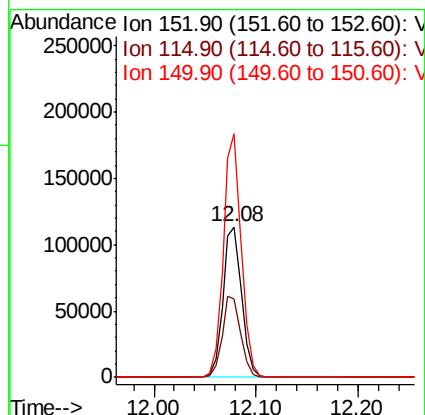
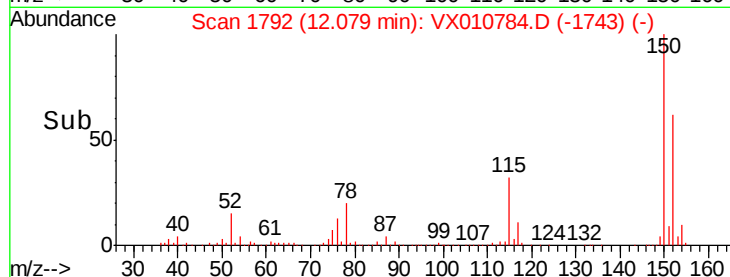
150 156.0 0.0 347.4



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



#76

1,2,3-Trichloropropane

Concen: 24.968 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010784.D

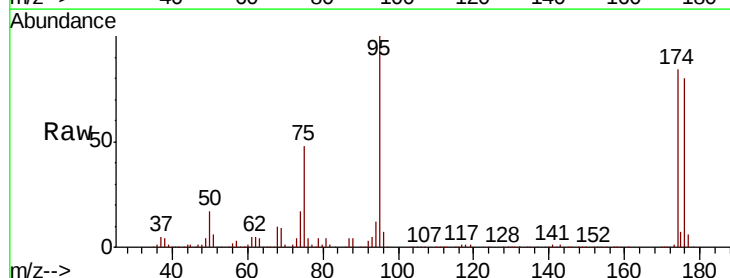
Acq: 10 Jul 2019 17:56

Tgt Ion: 75 Resp: 65659

Ion Ratio Lower Upper

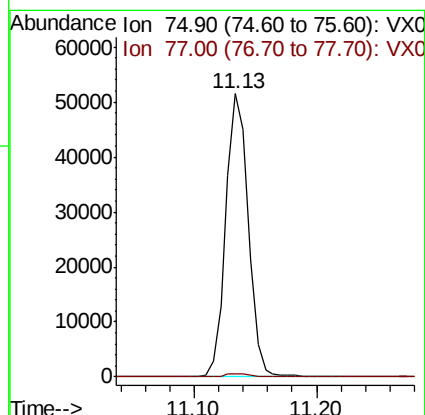
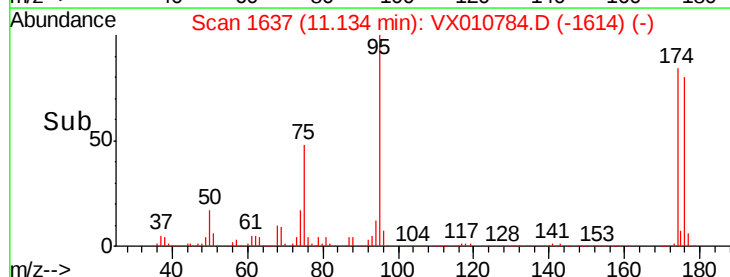
75 100

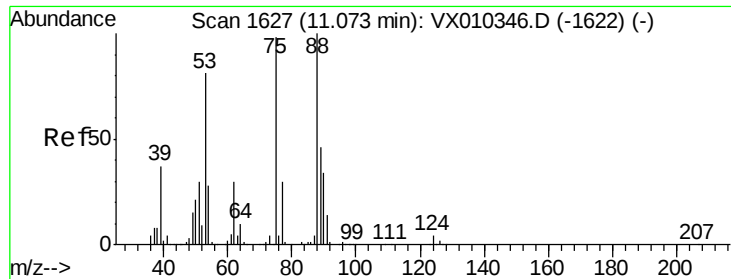
77 1.4 22.6 67.8#



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: 58.248 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010784.D

Acq: 10 Jul 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

MW-1

Tot Ion: 75 Resp: 65659

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.0 37.8 56.6#

