

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060719\
 Data File : VX010120.D
 Acq On : 07 Jun 2019 19:47
 Operator : JC/SP
 Sample : K3221-16DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW313S-20190605DL

Quant Time: Jun 08 02:23:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	306033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	466394	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	422730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202696	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	142400	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
35) Dibromofluoromethane	5.49	113	144950	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
50) Toluene-d8	8.71	98	549455	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.13	95	195720	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	

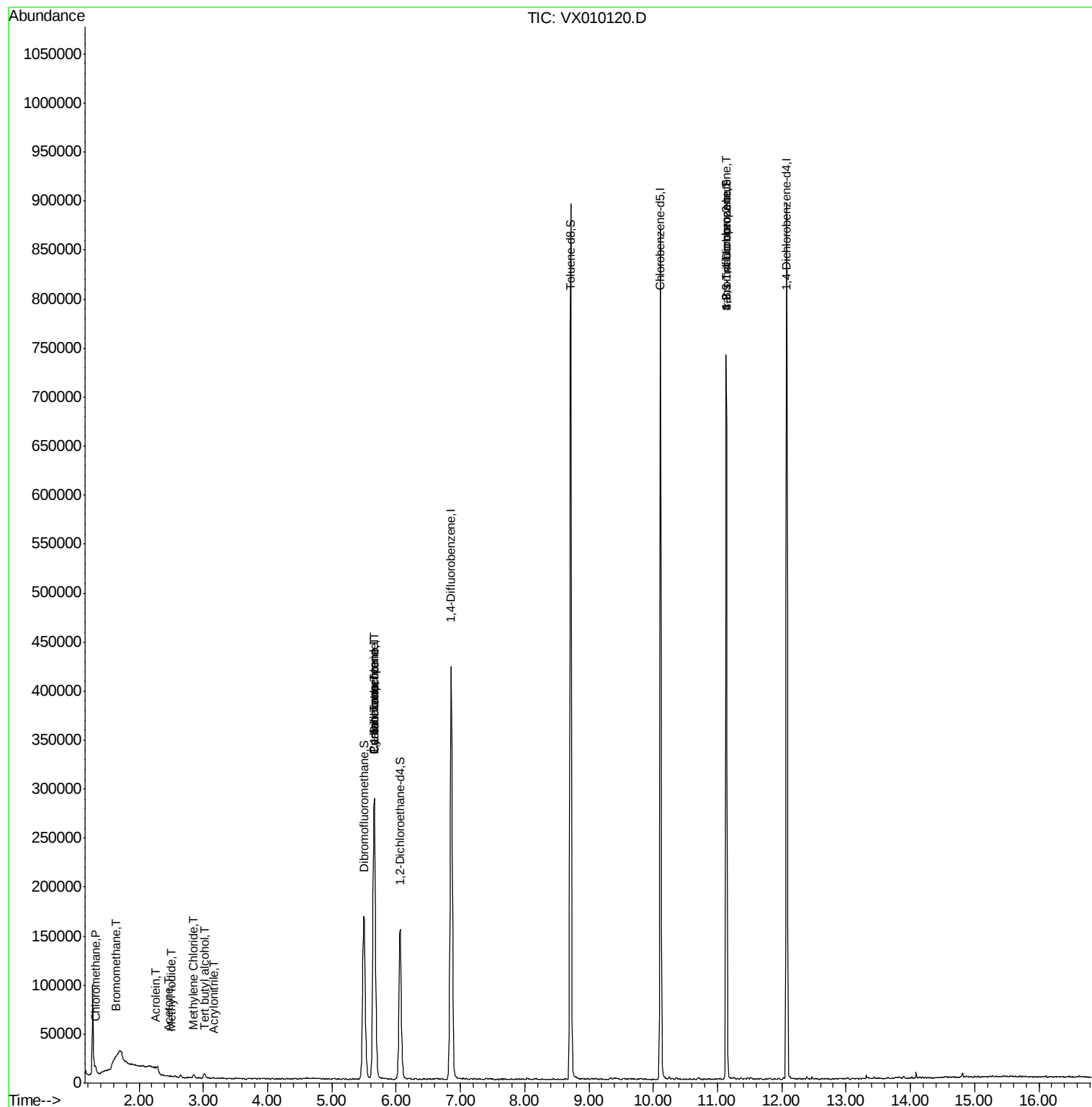
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	619	0.221	ug/l	95
5) Bromomethane	1.63	94	430	0.434	ug/l #	80
10) Methyl Iodide	2.51	142	867	0.208	ug/l #	84
11) Tert butyl alcohol	3.02	59	2738	3.742	ug/l #	81
13) Acrolein	2.25	56	47	0.352	ug/l #	1
15) Acrylonitrile	3.17	53	459	0.307	ug/l #	73
16) Acetone	2.45	43	1170	0.833	ug/l	98
20) Methylene Chloride	2.85	84	1977	0.641	ug/l #	73
31) Cyclohexane	5.65	56	4748	1.092	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18199	4.783	ug/l #	52
38) Carbon Tetrachloride	5.65	117	26405	6.131	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	88595	21.852	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	88595	48.281	ug/l #	10

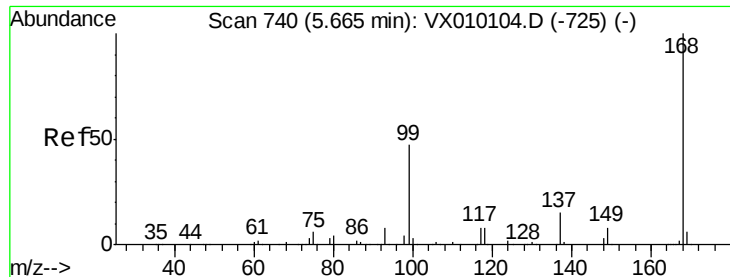
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 08 02:23:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 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: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

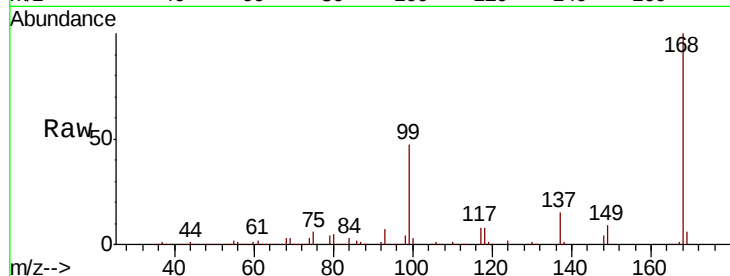
BPS1-TT-MW313S-20190605DL

Tot Ion:168 Resp: 306033

Ion Ratio Lower Upper

168 100

99 46.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

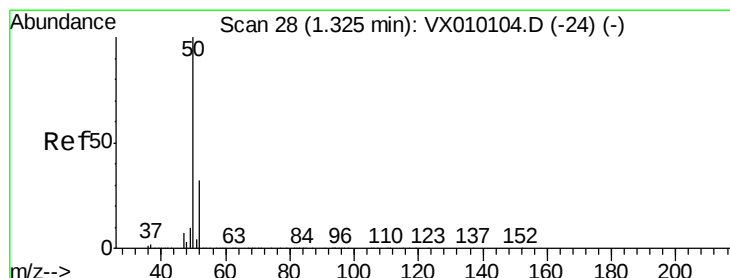
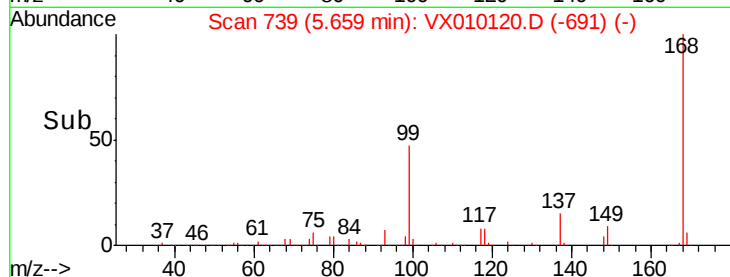
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010120.D

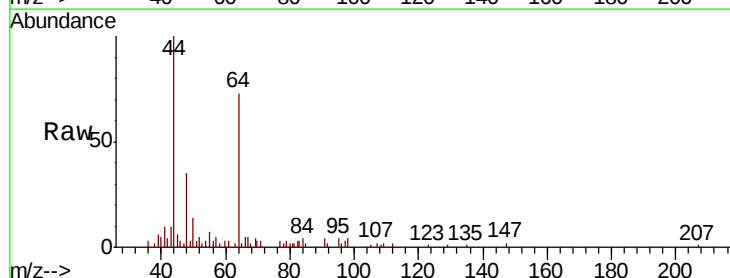
Acq: 07 Jun 2019 19:47

Tgt Ion: 50 Resp: 619

Ion Ratio Lower Upper

50 100

52 29.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

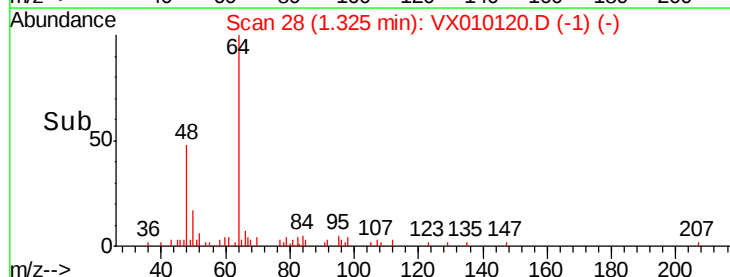
600

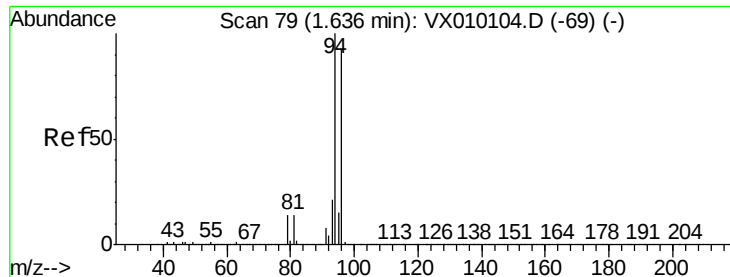
400

200

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.434 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

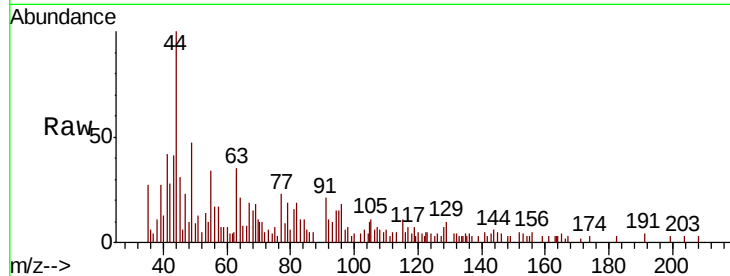
BPS1-TT-MW313S-20190605DL

Tot Ion: 94 Resp: 430

Ion Ratio Lower Upper

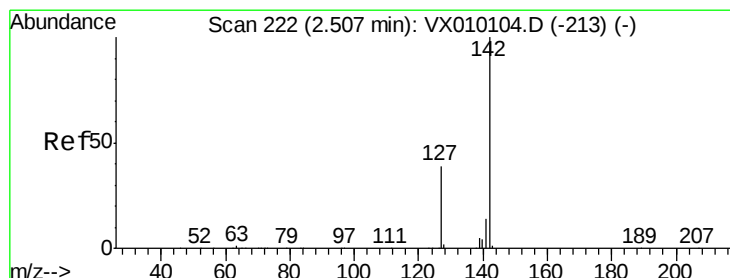
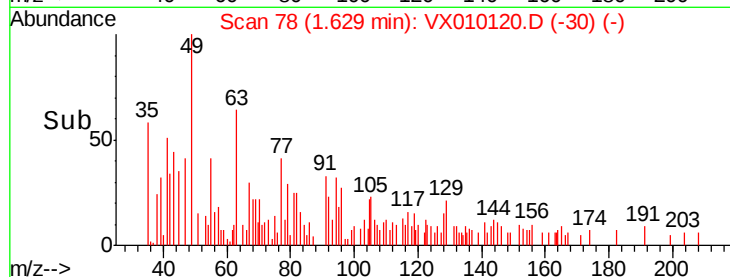
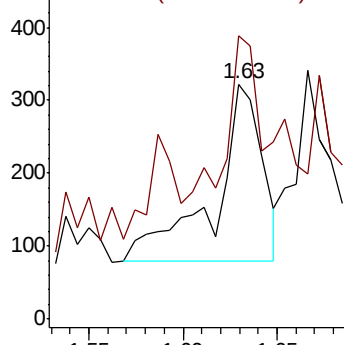
94 100

96 114.4 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.208 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

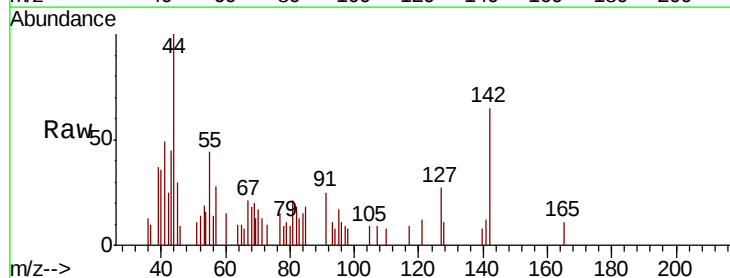
Tgt Ion: 142 Resp: 867

Ion Ratio Lower Upper

142 100

127 53.3 33.0 49.4#

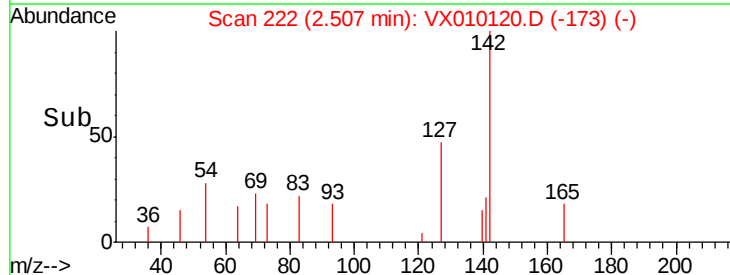
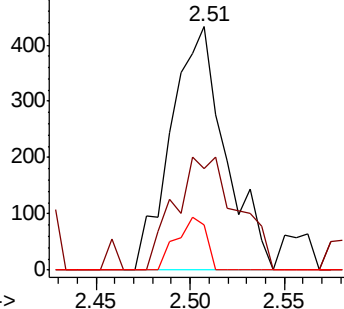
141 12.0 11.4 17.0

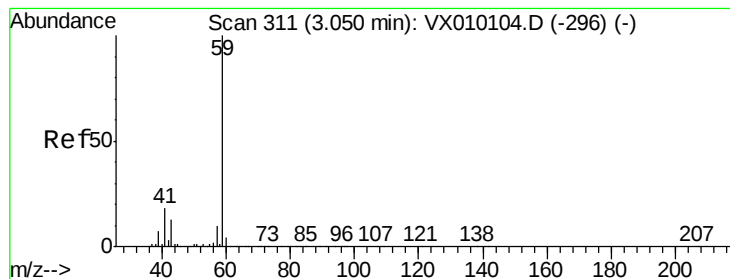


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



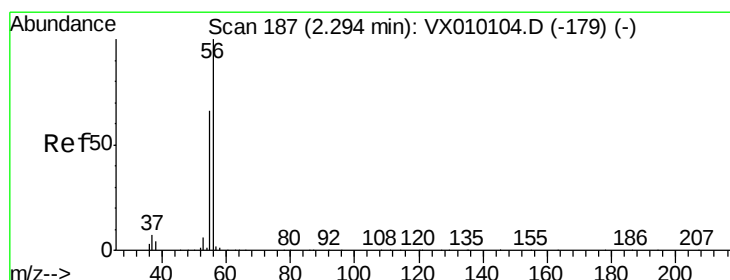
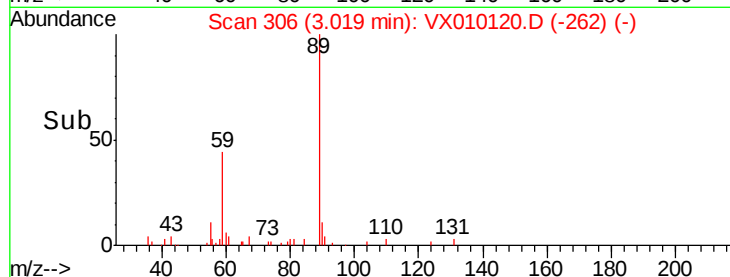
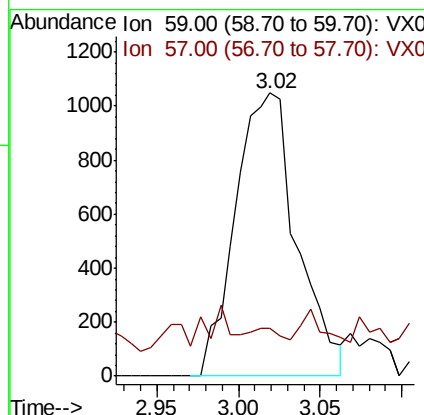
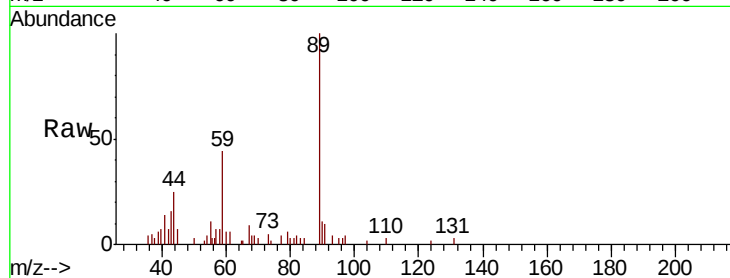


#11

Tert butyl alcohol
Concen: 3.742 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010120.D
Acq: 07 Jun 2019 19:47

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW313S-20190605DL

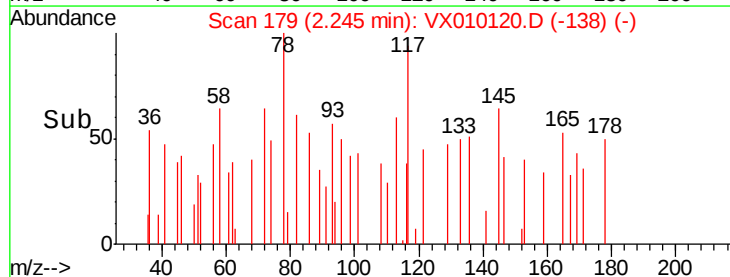
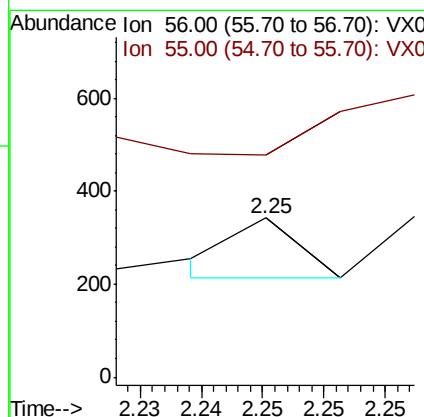
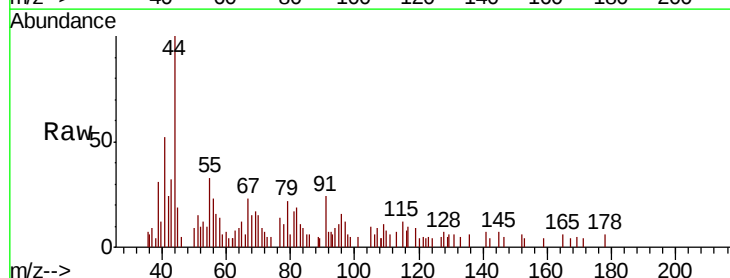
Tot Ion: 59 Resp: 2738
Ion Ratio Lower Upper
59 100
57 3.1 8.2 12.2#

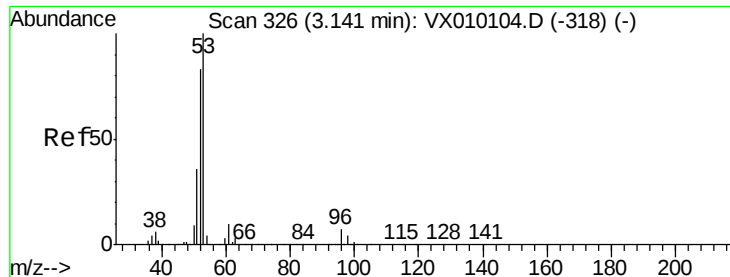


#13

Acrolein
Concen: 0.352 ug/l
RT: 2.25 min Scan# 179
Delta R.T. -0.05 min
Lab File: VX010120.D
Acq: 07 Jun 2019 19:47

Tgt Ion: 56 Resp: 47
Ion Ratio Lower Upper
56 100
55 374.5 57.0 85.4#





#15

Acrylonitrile

Concen: 0.307 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.02 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW313S-20190605DL

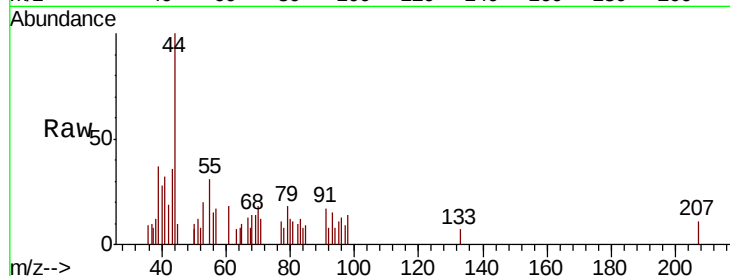
Tot Ion: 53 Resp: 459

Ion Ratio Lower Upper

53 100

52 54.2 66.7 100.1#

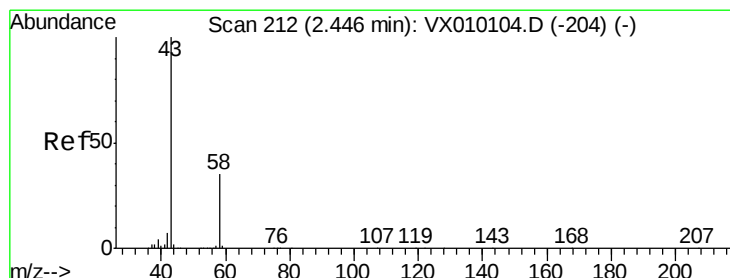
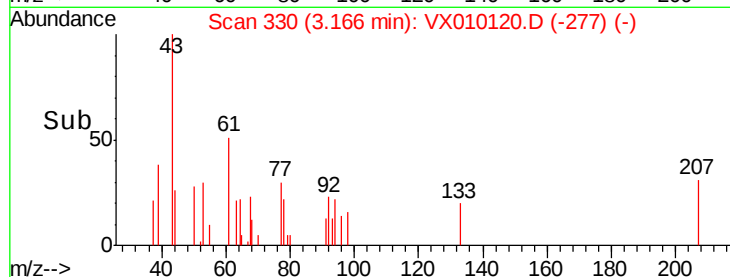
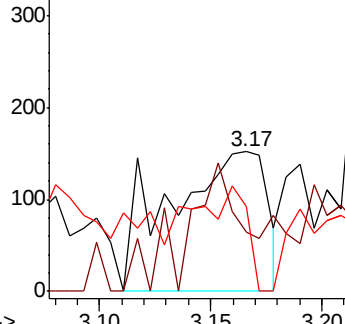
51 44.7 28.8 43.2#



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: 0.833 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX010120.D

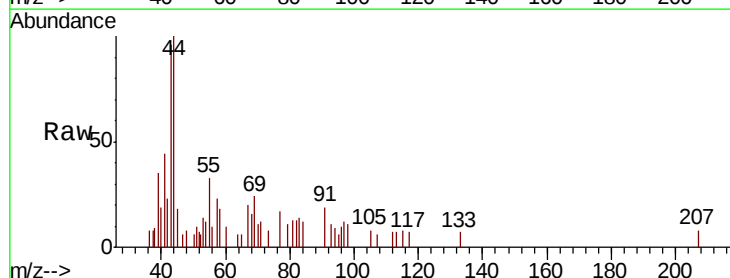
Acq: 07 Jun 2019 19:47

Tgt Ion: 43 Resp: 1170

Ion Ratio Lower Upper

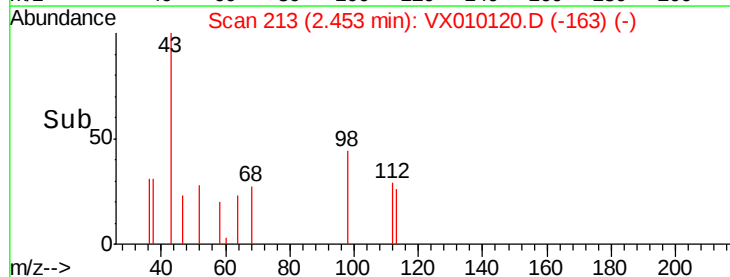
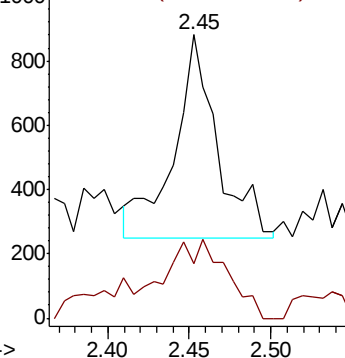
43 100

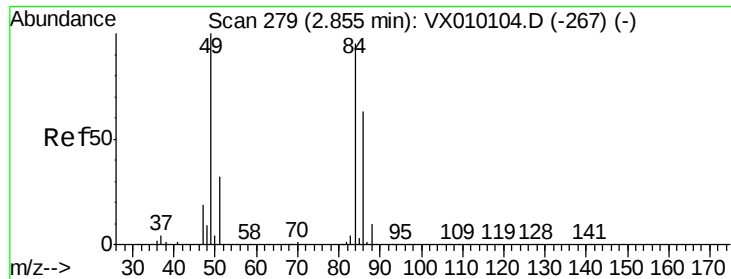
58 27.7 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

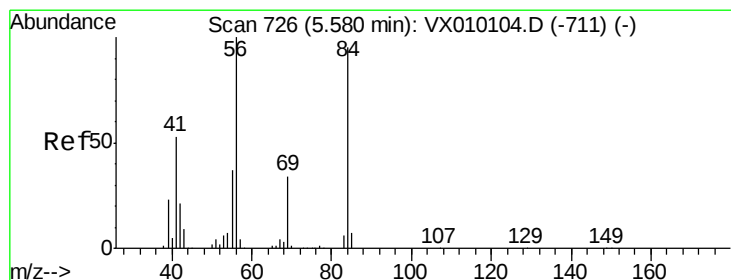
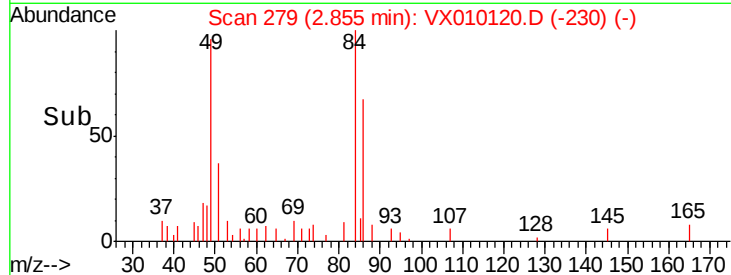
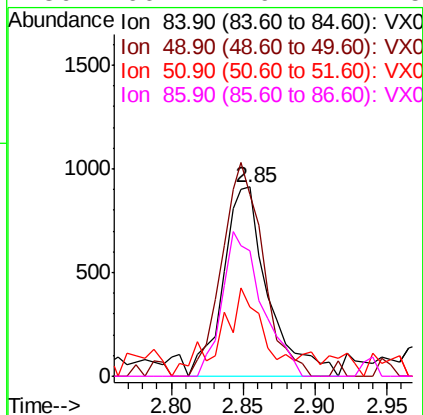
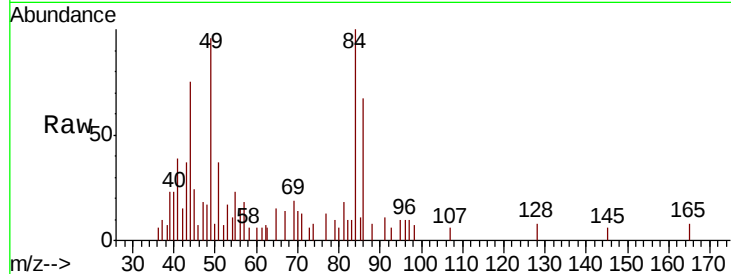




#20
Methvlene Chloride
Concen: 0.641 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX010120.D
Acq: 07 Jun 2019 19:47

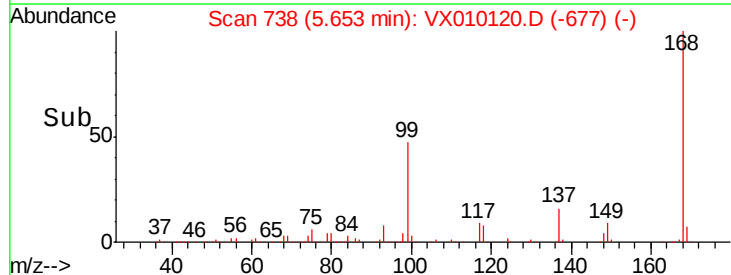
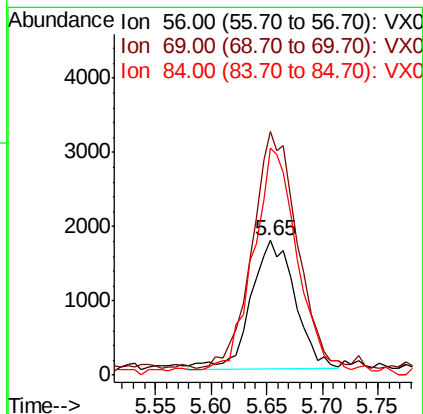
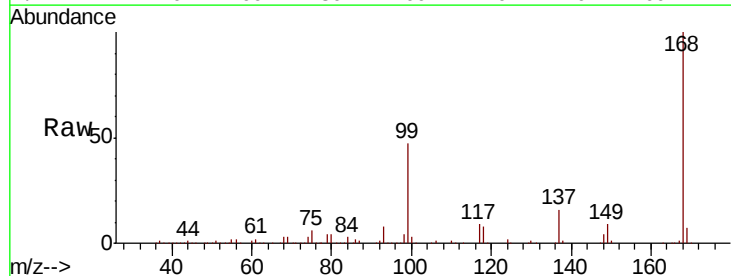
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW313S-20190605DL

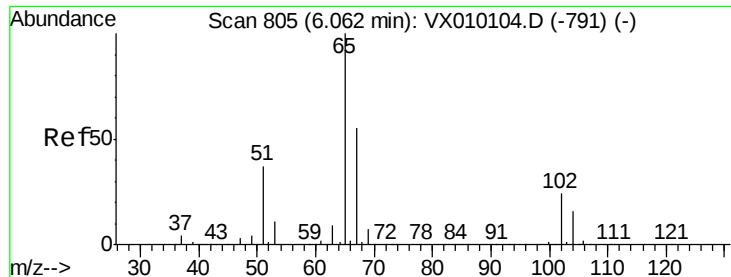
Tot Ion: 84 Resp: 1977
Ion Ratio Lower Upper
84 100
49 96.4 115.8 173.6#
51 31.0 34.4 51.6#
86 66.7 49.7 74.5



#31
Cyclohexane
Concen: 1.092 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX010120.D
Acq: 07 Jun 2019 19:47

Tgt Ion: 56 Resp: 4748
Ion Ratio Lower Upper
56 100
69 185.3 21.6 32.4#
84 175.0 56.8 85.2#





#33

1,2-Dichloroethane-d4

Concen: 47.670 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

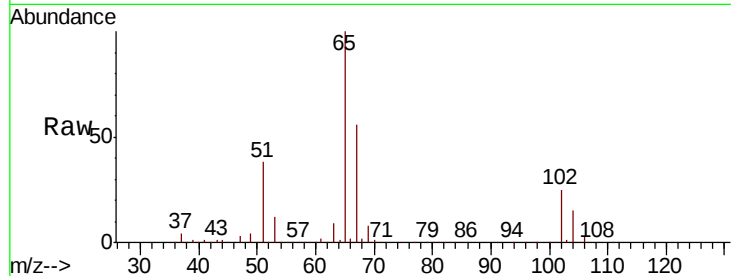
BPS1-TT-MW313S-20190605DL

Tot Ion: 65 Resp: 142400

Ion Ratio Lower Upper

65 100

67 54.3 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

60000

50000

40000

30000

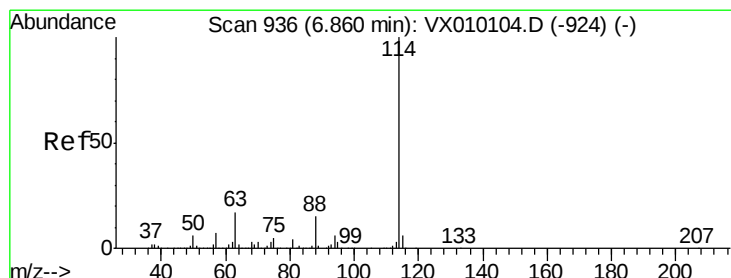
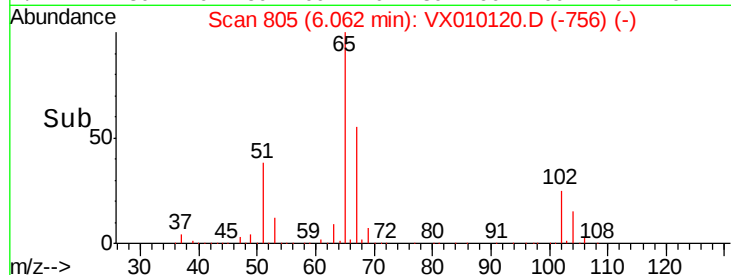
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

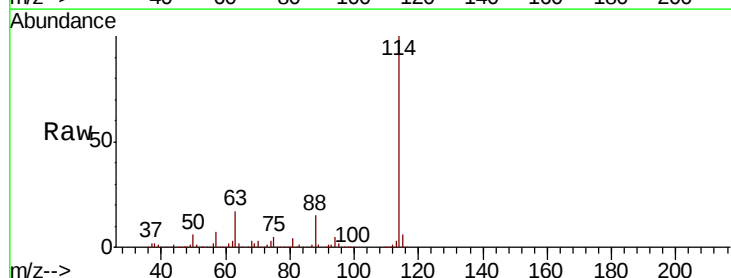
Tgt Ion: 114 Resp: 466394

Ion Ratio Lower Upper

114 100

63 17.1 0.0 47.4

88 14.7 0.0 33.0



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

250000

200000

150000

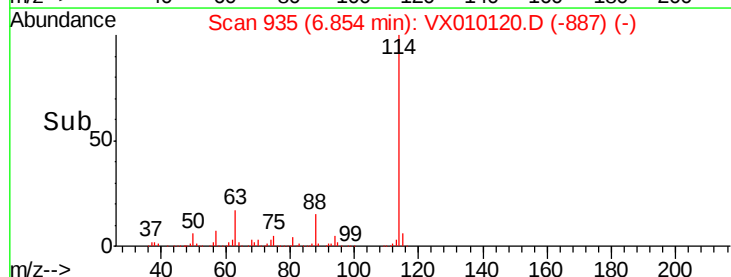
100000

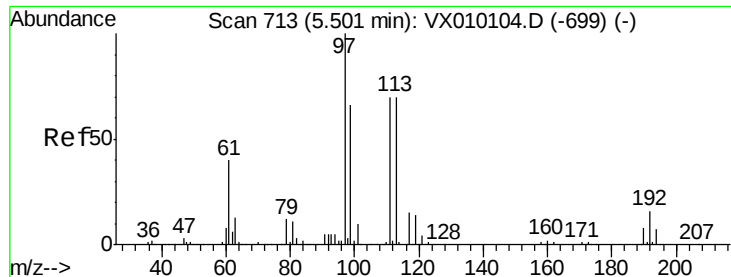
50000

0

Time-->

6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 50.385 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW313S-20190605DL

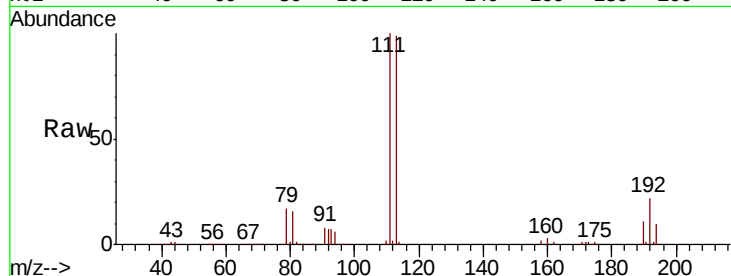
Tot Ion:113 Resp: 144950

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.2

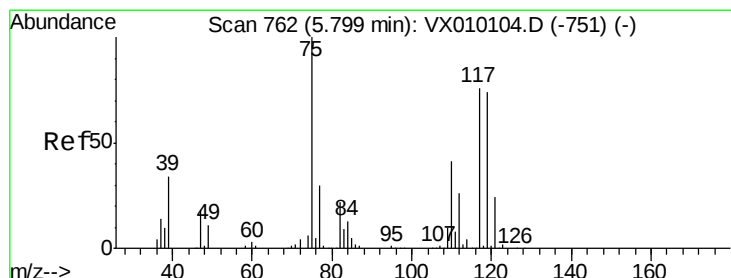
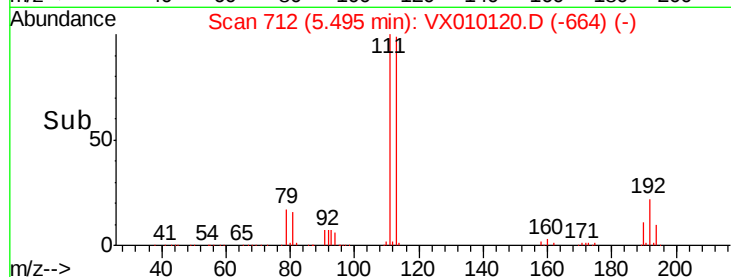
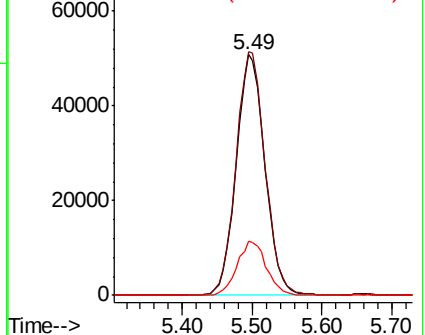
192 22.9 17.1 25.7



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: 4.783 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

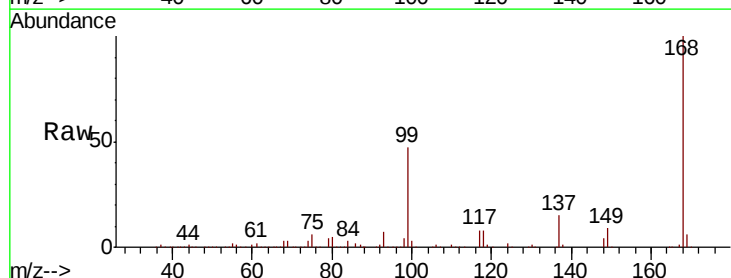
Tgt Ion: 75 Resp: 18199

Ion Ratio Lower Upper

75 100

110 10.6 16.7 50.1#

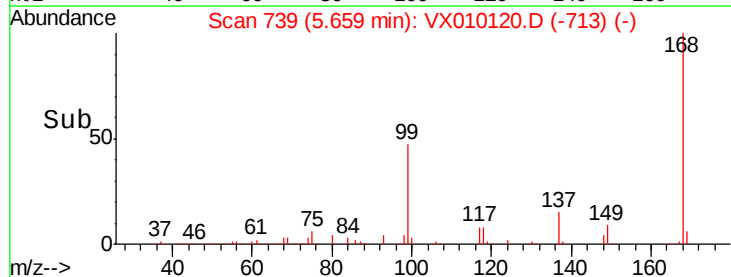
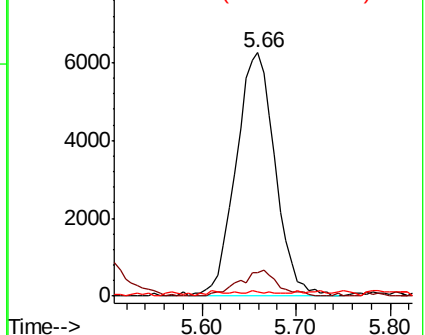
77 0.3 25.0 37.4#

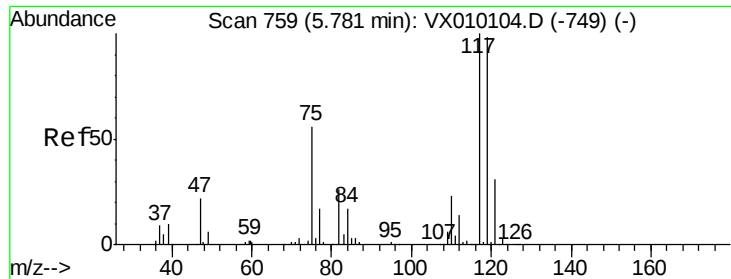


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.131 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW313S-20190605DL

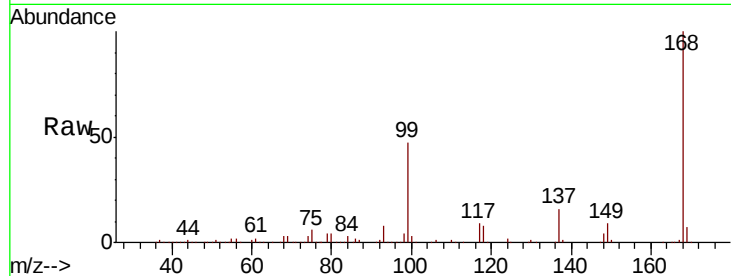
Tot Ion:117 Resp: 26405

Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

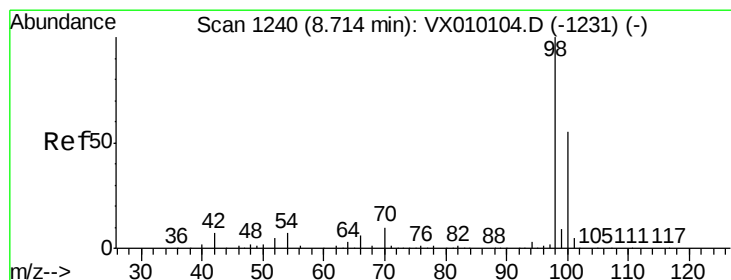
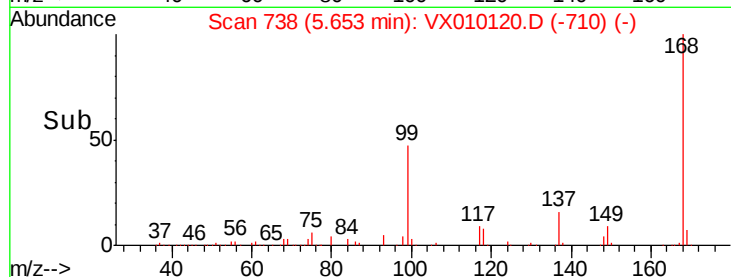
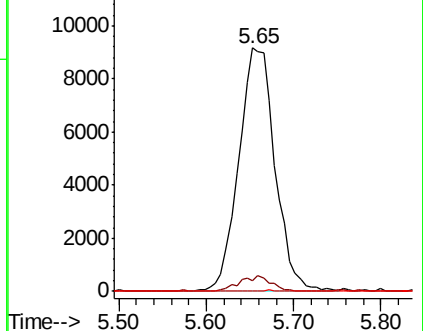
121 0.0 25.4 38.0#



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



#50

Toluene-d8

Concen: 50.961 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010120.D

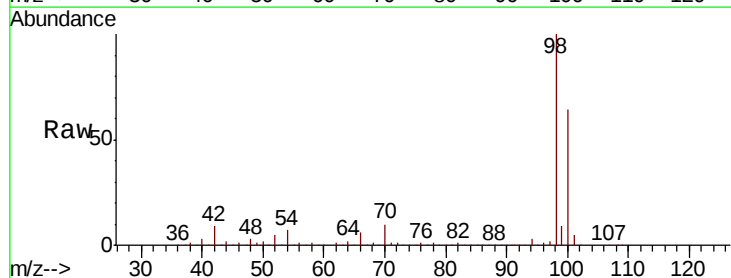
Acq: 07 Jun 2019 19:47

Tgt Ion: 98 Resp: 549455

Ion Ratio Lower Upper

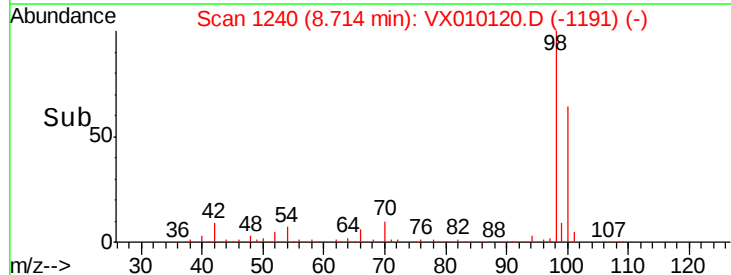
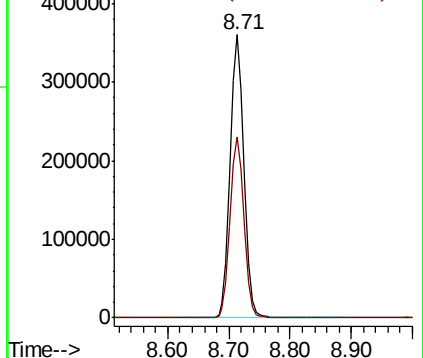
98 100

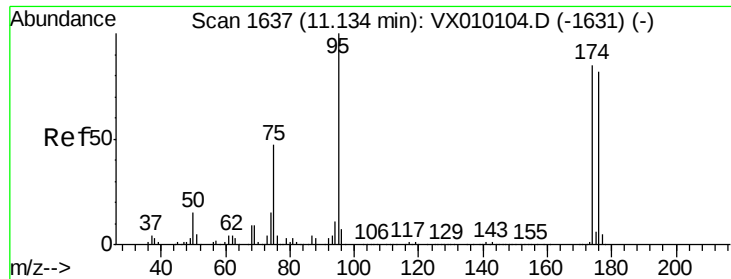
100 64.9 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 48.607 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW313S-20190605DL

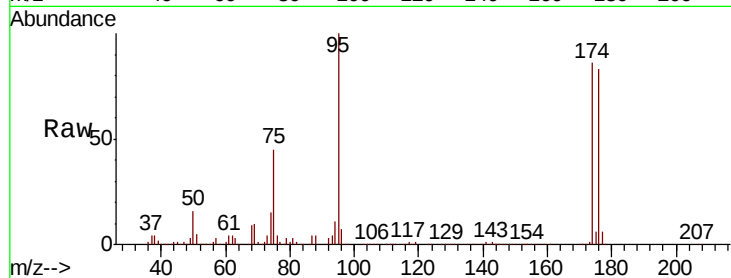
Tot Ion: 95 Resp: 195720

Ion Ratio Lower Upper

95 100

174 91.1 0.0 160.4

176 88.7 0.0 154.6

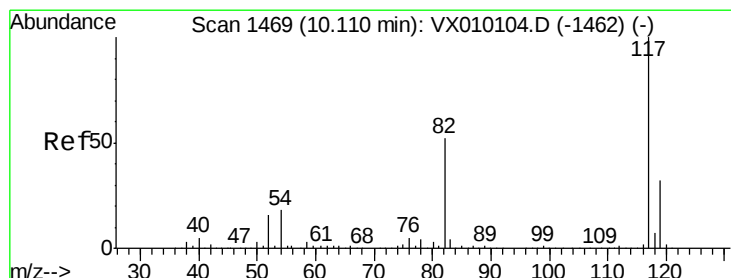
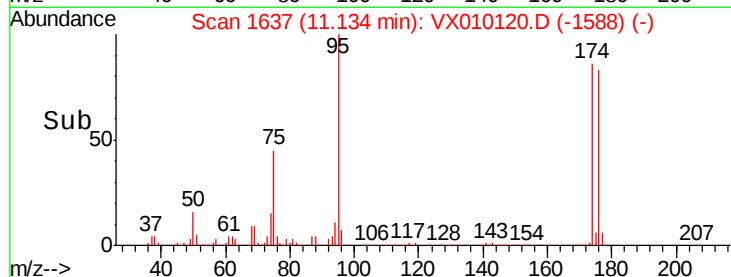
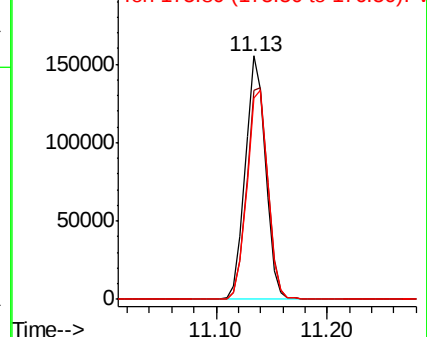


Abundance

Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

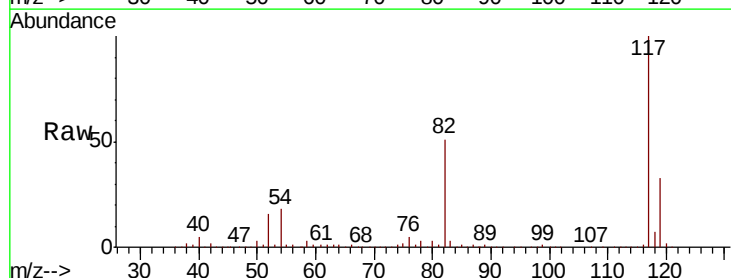
Tgt Ion: 117 Resp: 422730

Ion Ratio Lower Upper

117 100

82 51.4 49.2 73.8

119 32.5 25.2 37.8

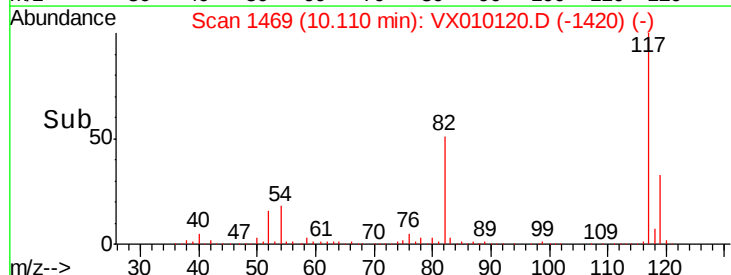
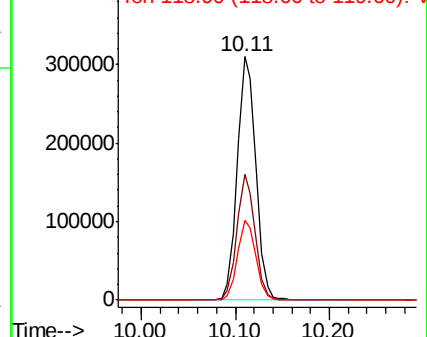


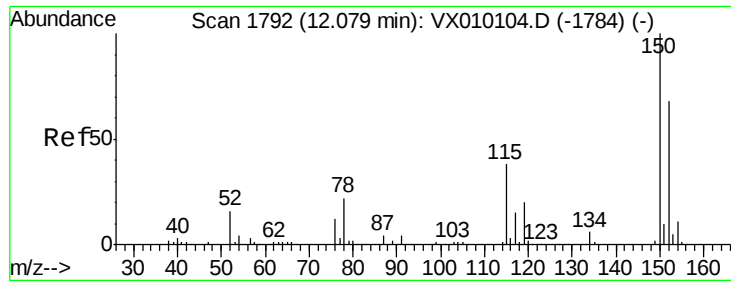
Abundance

Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010120.D

Acq: 07 Jun 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW313S-20190605DL

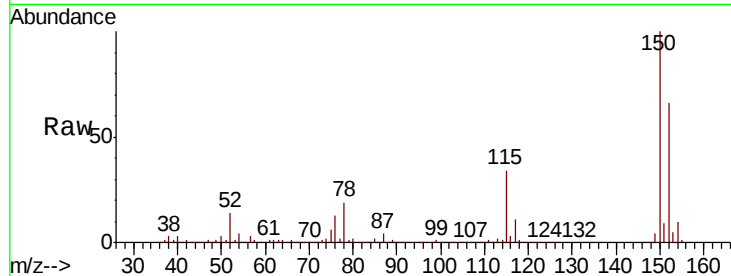
Tot Ion:152 Resp: 202696

Ion Ratio Lower Upper

152 100

115 54.5 41.4 124.2

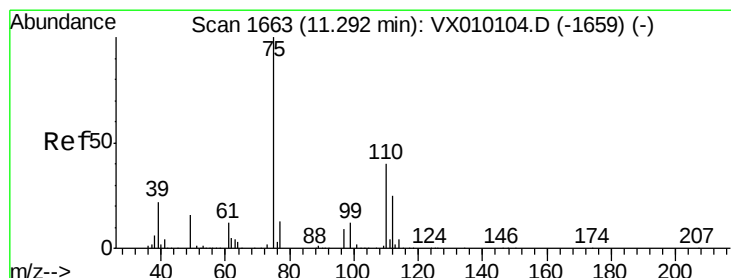
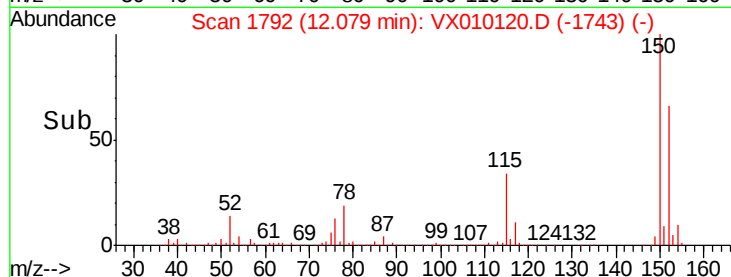
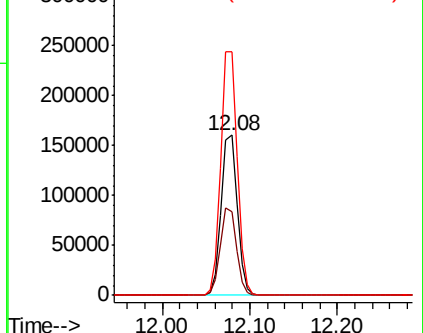
150 155.1 0.0 345.2



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: 21.852 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010120.D

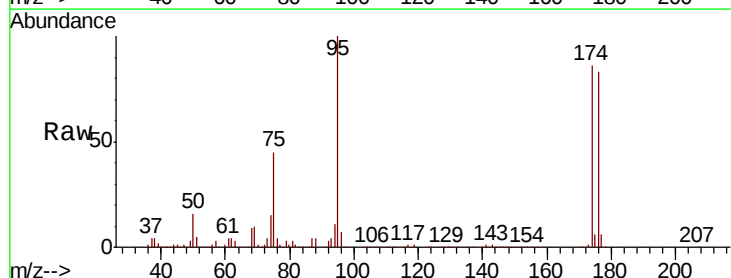
Acq: 07 Jun 2019 19:47

Tgt Ion: 75 Resp: 88595

Ion Ratio Lower Upper

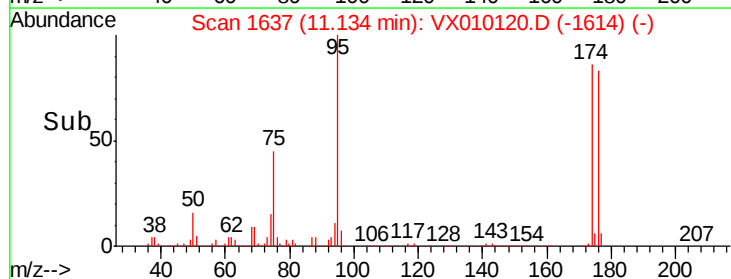
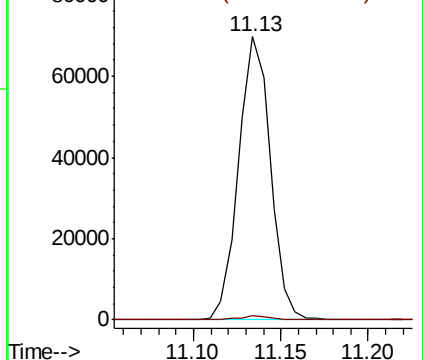
75 100

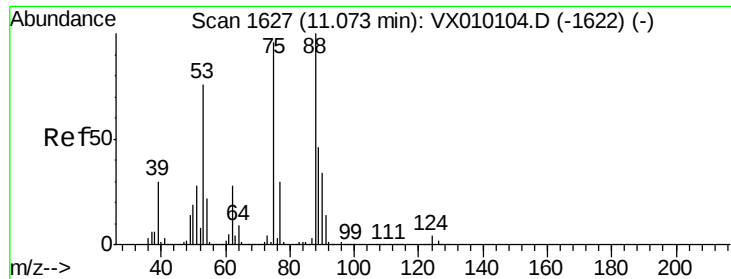
77 1.6 22.1 66.1#



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: 48.281 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010120.D
 Acq: 07 Jun 2019 19:47

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW313S-20190605DL

Tot Ion: 75 Resp: 88595
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.8 119.6#
 89 0.0 34.2 51.4#

