

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061119\
 Data File : VX010226.D
 Acq On : 11 Jun 2019 12:45
 Operator : JC/SP
 Sample : K3279-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW312S-20190607

Quant Time: Jun 12 07:48:03 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	254230	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	379863	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	338201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159168	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	113299	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	
35) Dibromofluoromethane	5.50	113	117164	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
50) Toluene-d8	8.71	98	445243	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	11.13	95	152801	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	

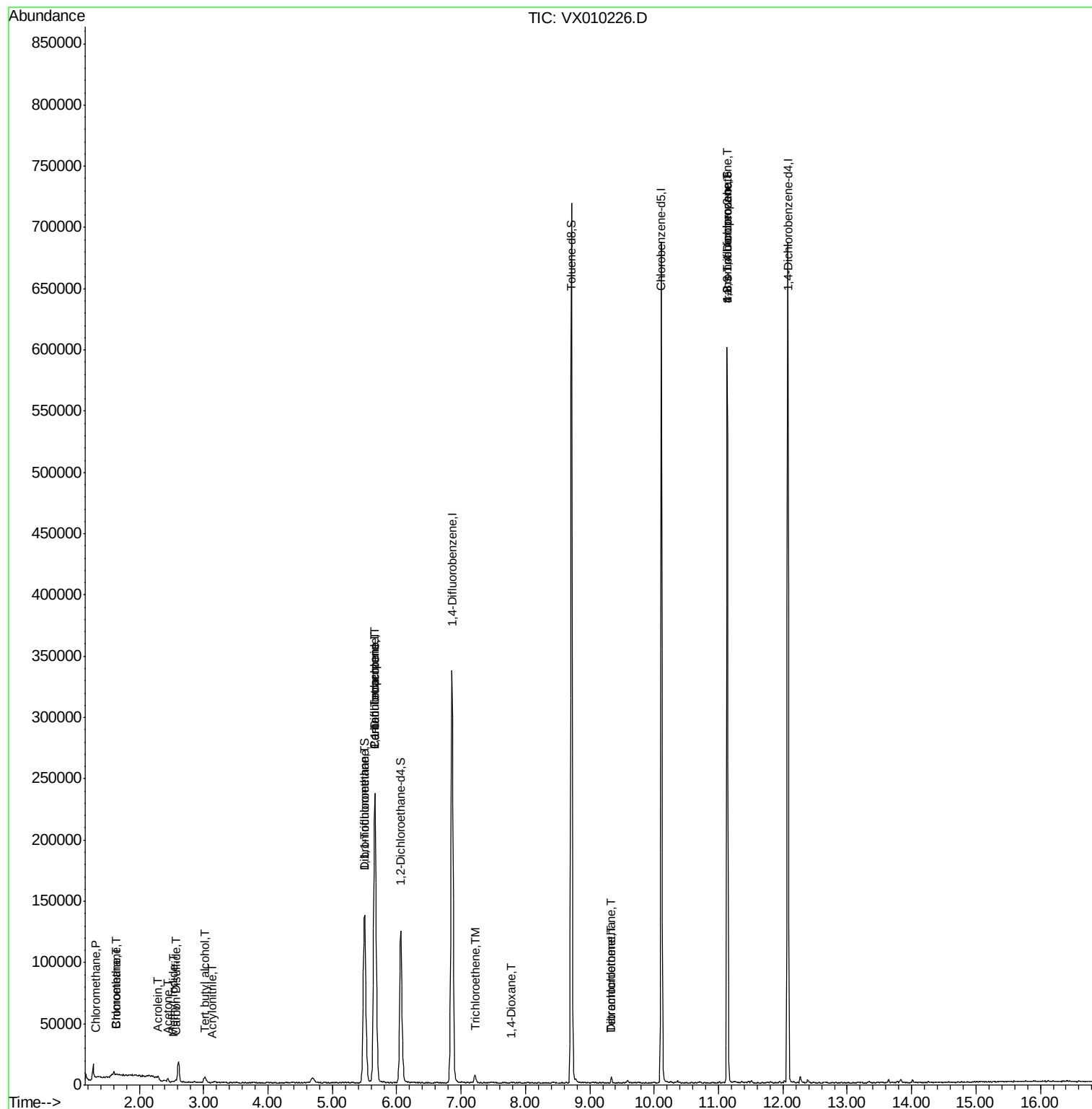
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	496	0.214	ug/l #	66
5) Bromomethane	1.65	94	312	0.379	ug/l #	59
6) Chloroethane	1.64	64	719	0.653	ug/l #	60
10) Methyl Iodide	2.52	142	826	0.238	ug/l #	83
11) Tert butyl alcohol	3.02	59	2696	4.435	ug/l #	76
13) Acrolein	2.29	56	197	1.777	ug/l #	42
15) Acrylonitrile	3.14	53	521	0.419	ug/l #	17
16) Acetone	2.44	43	2844	2.437	ug/l	99
17) Carbon Disulfide	2.57	76	2214	0.336	ug/l #	82
32) 1,1,1-Trichloroethane	5.50	97	862	0.221	ug/l #	51
36) 1,1-Dichloropropene	5.66	75	15127	4.881	ug/l #	52
38) Carbon Tetrachloride	5.66	117	21385	6.096	ug/l #	16
44) Trichloroethene	7.22	130	2604	0.901	ug/l	91
49) 1,4-Dioxane	7.77	88	24	0.334	ug/l #	25
60) Dibromochloromethane	9.34	129	771	0.253	ug/l #	11
64) Tetrachloroethene	9.34	164	768	0.306	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	69341	21.780	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	69341	48.122	ug/l #	10

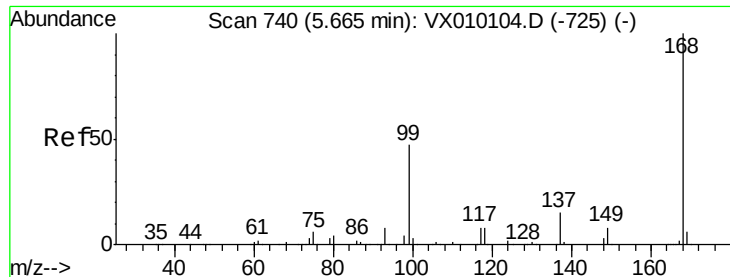
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

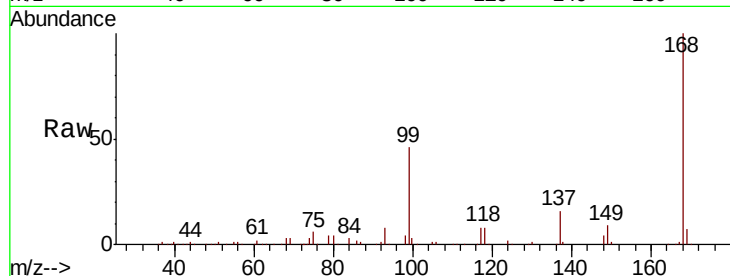
BPS1-TT-MW312S-20190607

Tot Ion:168 Resp: 254230

Ion Ratio Lower Upper

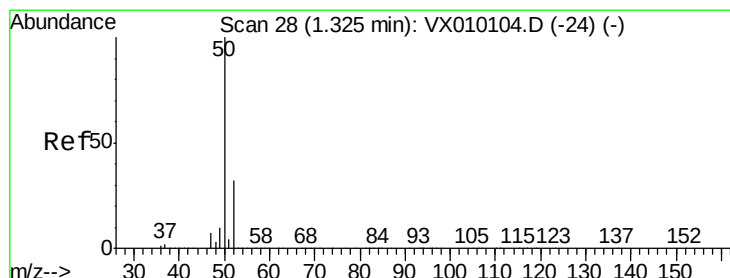
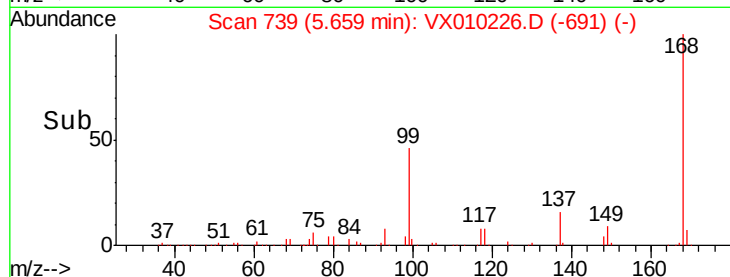
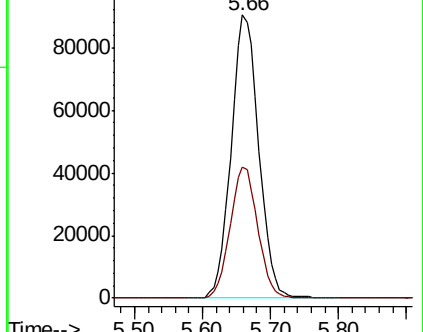
168 100

99 46.3 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.214 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010226.D

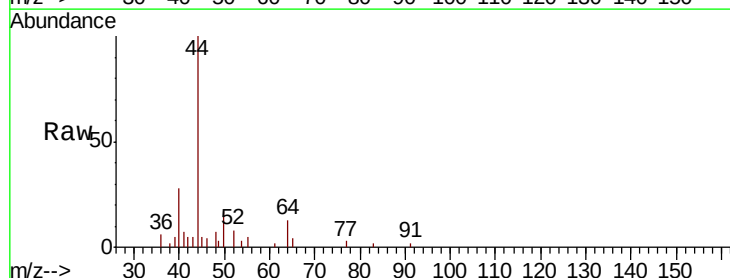
Acq: 11 Jun 2019 12:45

Tgt Ion: 50 Resp: 496

Ion Ratio Lower Upper

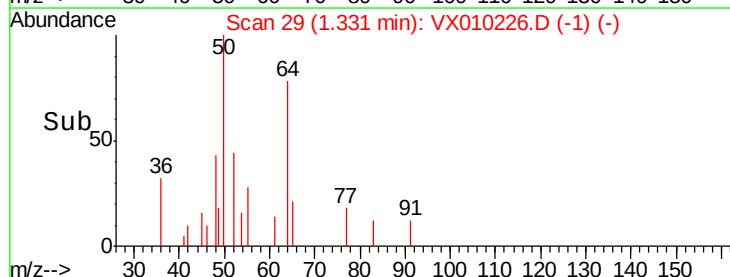
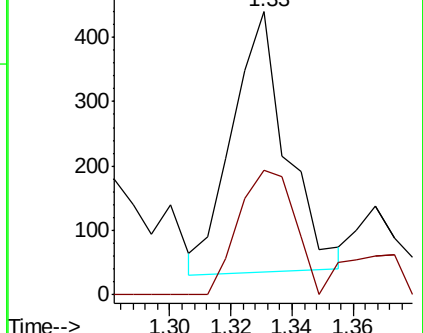
50 100

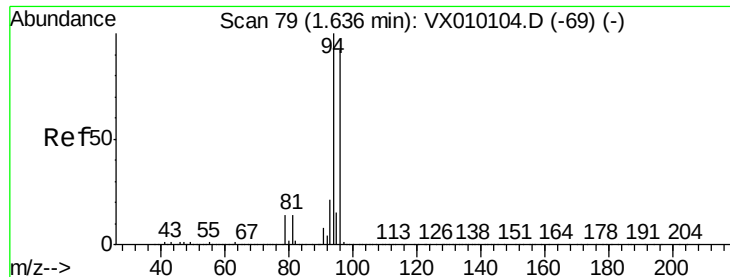
52 51.5 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.379 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

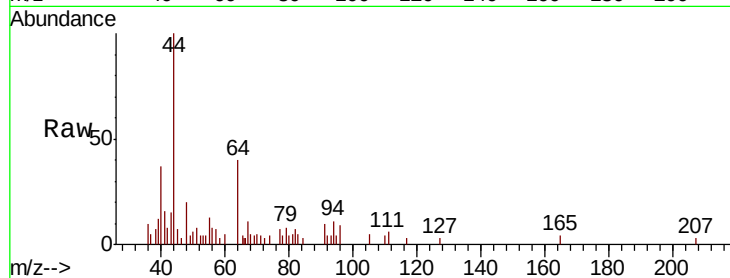
BPS1-TT-MW312S-20190607

Tot Ion: 94 Resp: 312

Ion Ratio Lower Upper

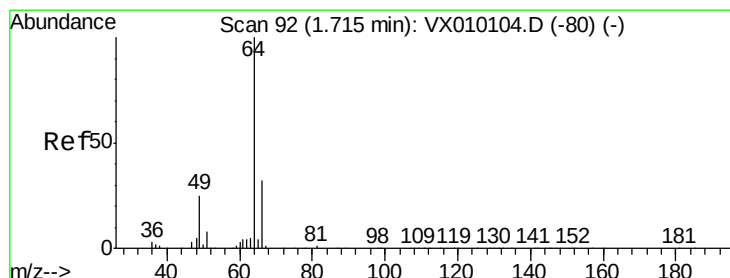
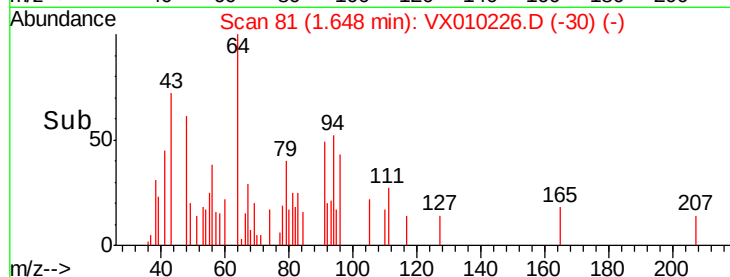
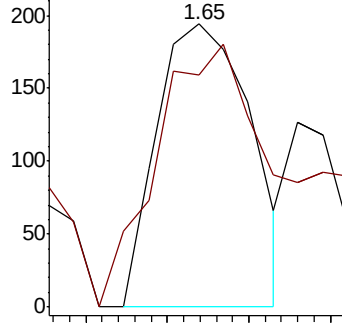
94 100

96 55.2 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.653 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.07 min

Lab File: VX010226.D

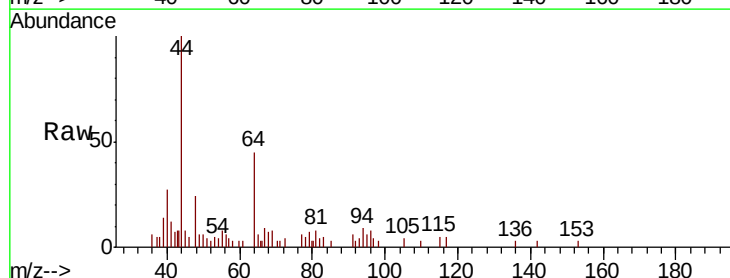
Acq: 11 Jun 2019 12:45

Tgt Ion: 64 Resp: 719

Ion Ratio Lower Upper

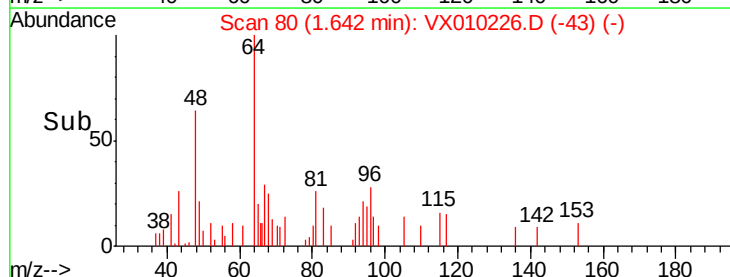
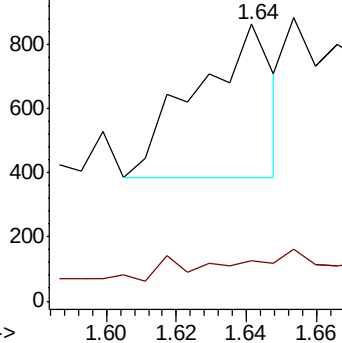
64 100

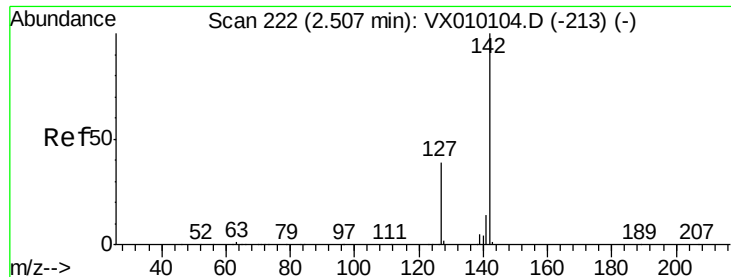
66 9.5 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 0.238 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW312S-20190607

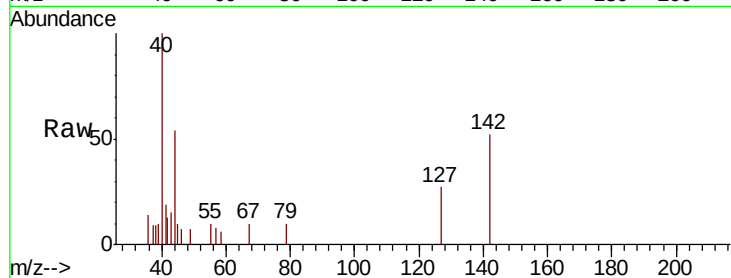
Tot Ion:142 Resp: 826

Ion Ratio Lower Upper

142 100

127 50.2 33.0 49.4#

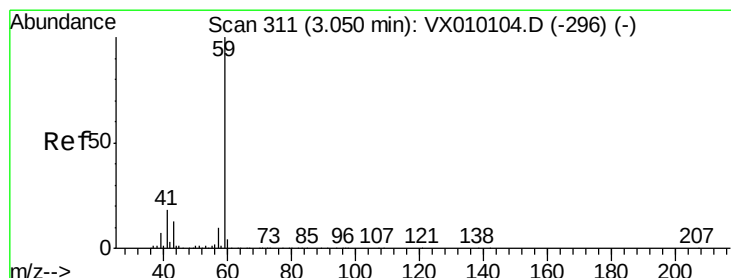
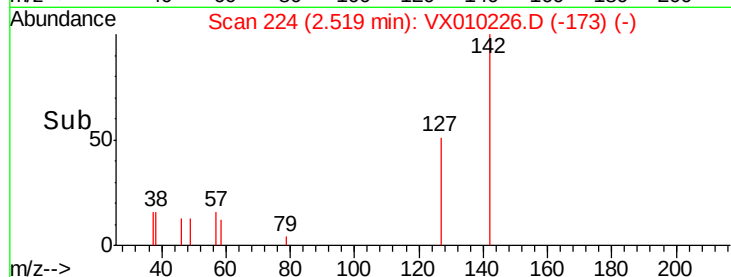
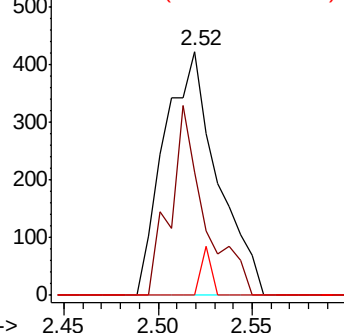
141 3.8 11.4 17.0#



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: 4.435 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010226.D

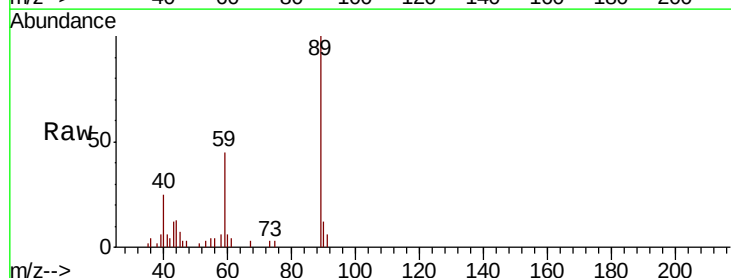
Acq: 11 Jun 2019 12:45

Tgt Ion: 59 Resp: 2696

Ion Ratio Lower Upper

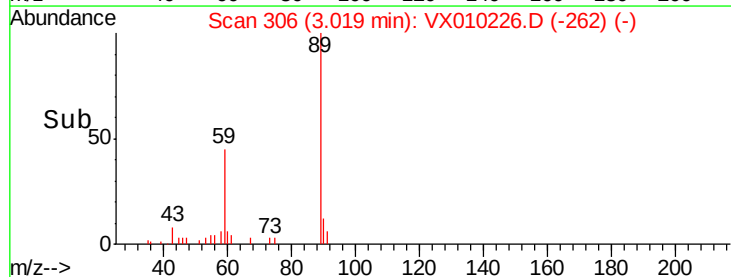
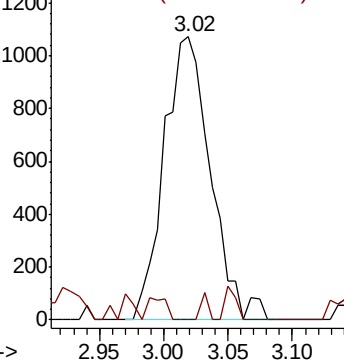
59 100

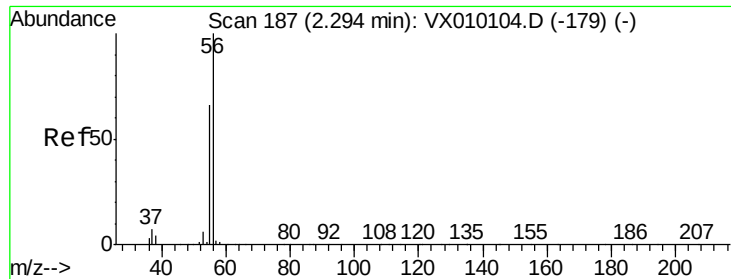
57 1.4 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.777 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

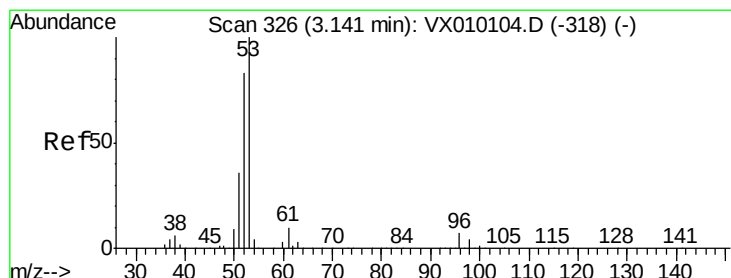
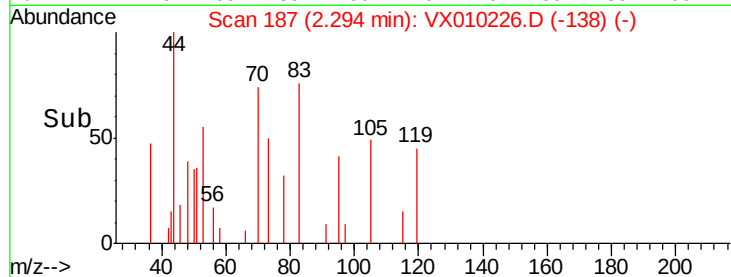
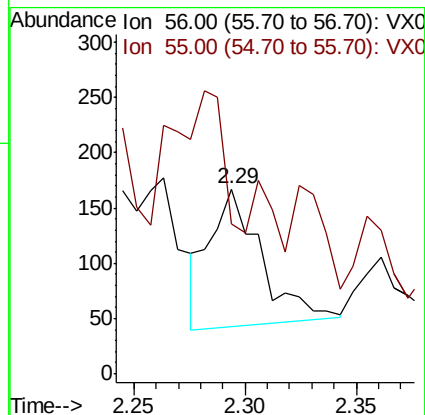
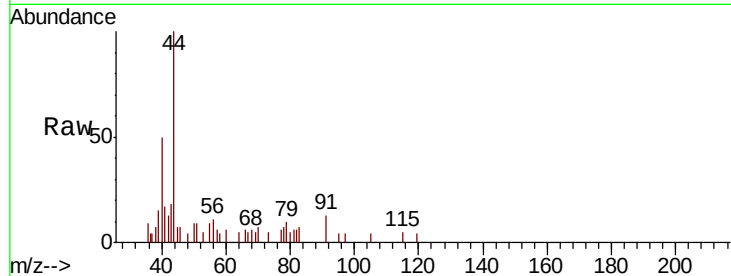
BPS1-TT-MW312S-20190607

Tot Ion: 56 Resp: 197

Ion Ratio Lower Upper

56 100

55 119.3 57.0 85.4#



#15

Acrylonitrile

Concen: 0.419 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

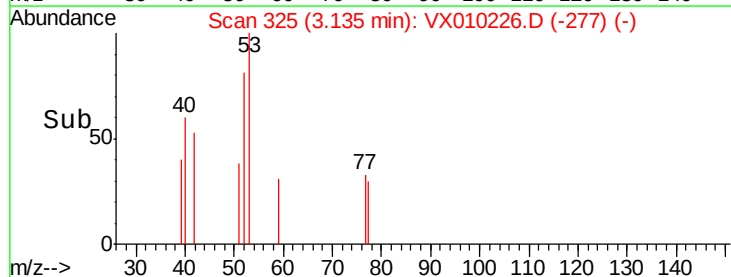
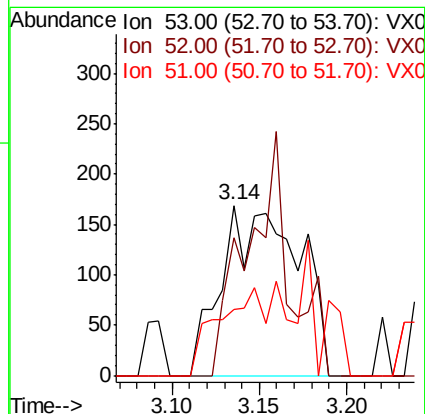
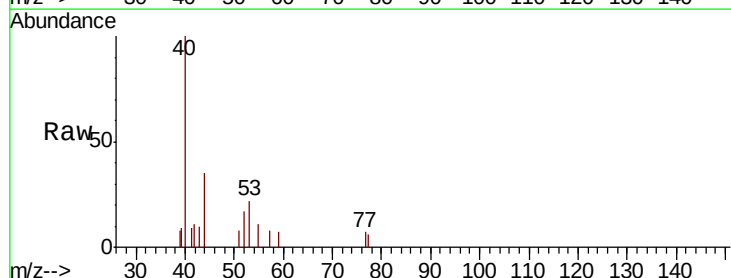
Tgt Ion: 53 Resp: 521

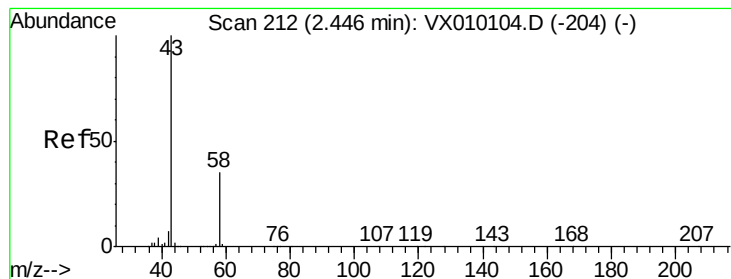
Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 0.0 28.8 43.2#





#16

Acetone

Concen: 2.437 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

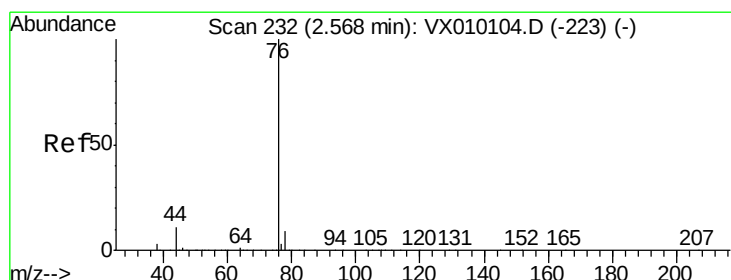
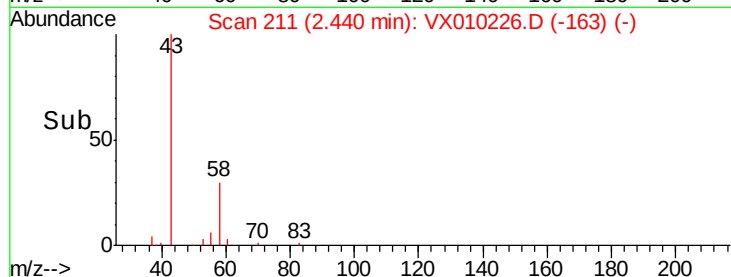
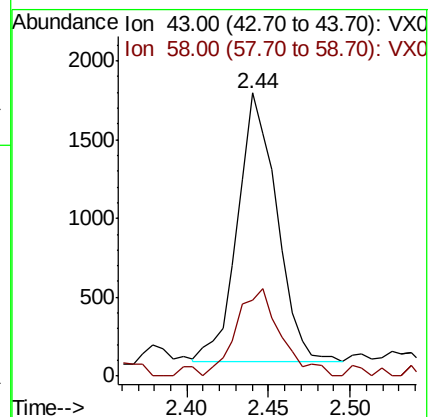
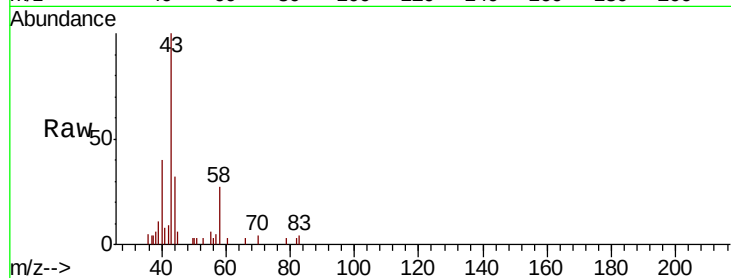
BPS1-TT-MW312S-20190607

Tot Ion: 43 Resp: 2844

Ion Ratio Lower Upper

43 100

58 28.3 23.2 34.8



#17

Carbon Disulfide

Concen: 0.336 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010226.D

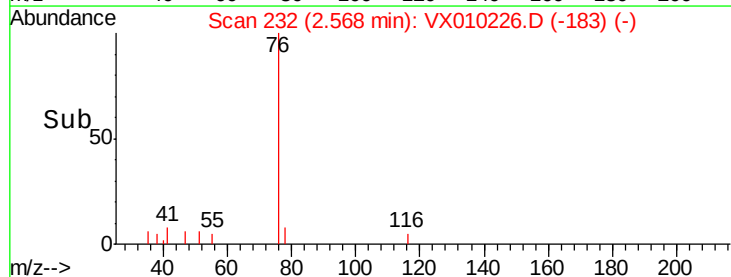
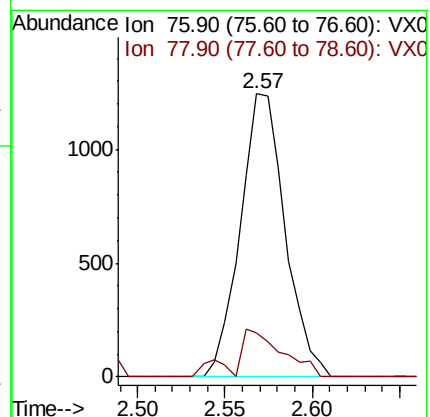
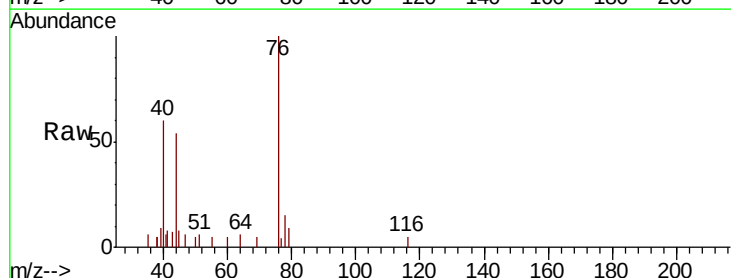
Acq: 11 Jun 2019 12:45

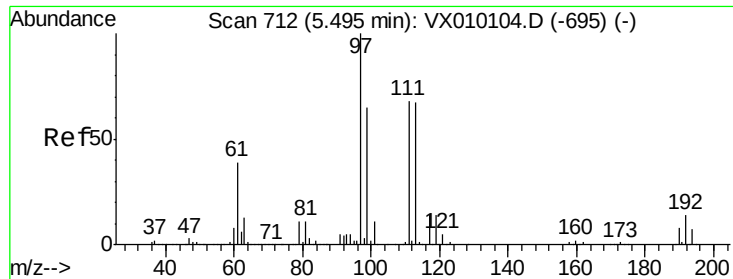
Tgt Ion: 76 Resp: 2214

Ion Ratio Lower Upper

76 100

78 15.4 7.0 10.6#





#32

1,1,1-Trichloroethane

Concen: 0.221 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW312S-20190607

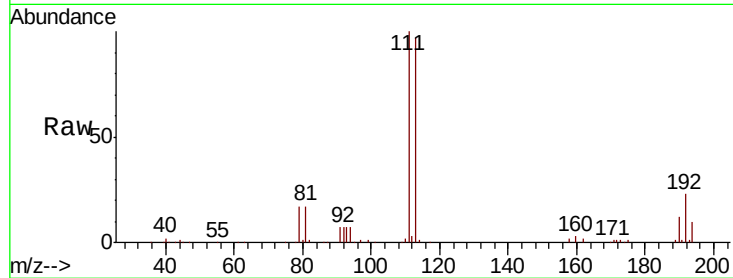
Tot Ion: 97 Resp: 862

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

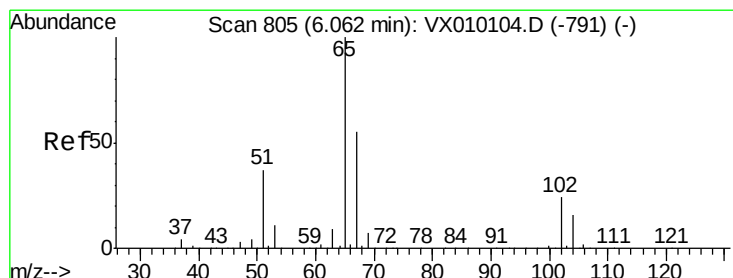
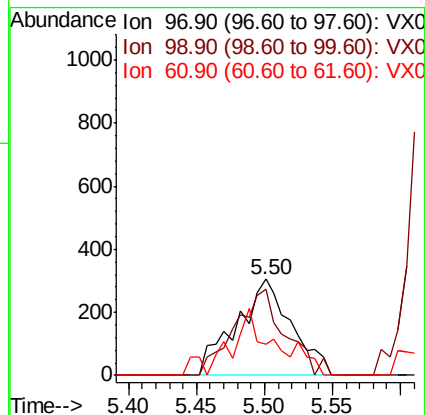
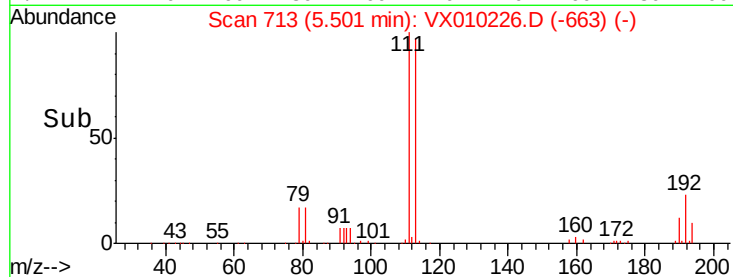
61 43.9 38.7 58.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.656 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010226.D

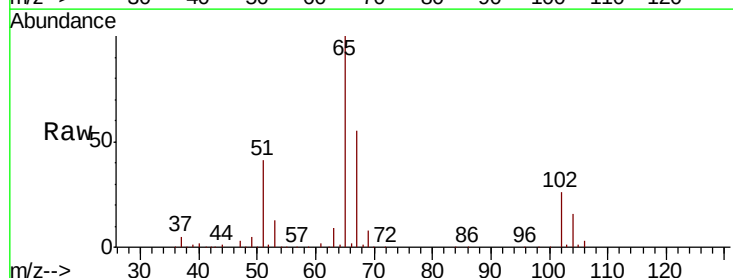
Acq: 11 Jun 2019 12:45

Tgt Ion: 65 Resp: 113299

Ion Ratio Lower Upper

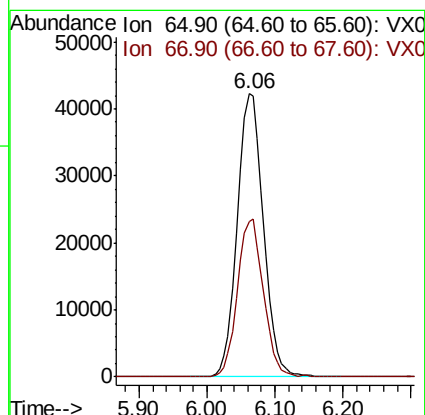
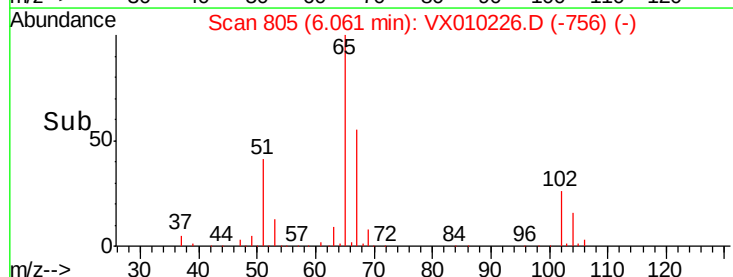
65 100

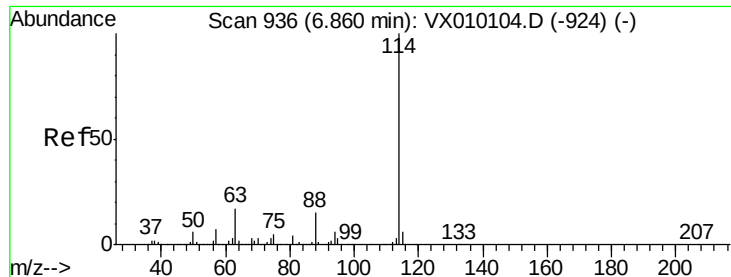
67 55.2 0.0 108.4



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

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ClientSampleId :

BPS1-TT-MW312S-20190607

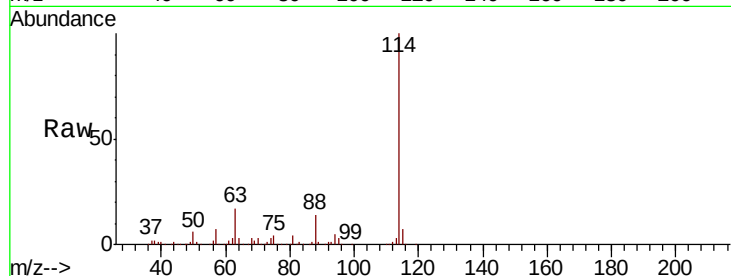
Tot Ion:114 Resp: 379863

Ion Ratio Lower Upper

114 100

63 16.7 0.0 47.4

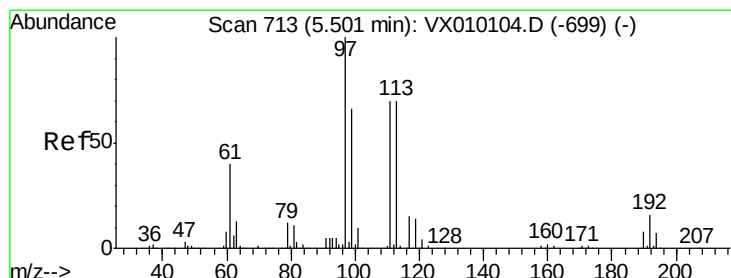
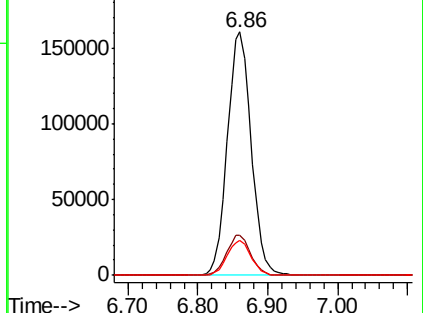
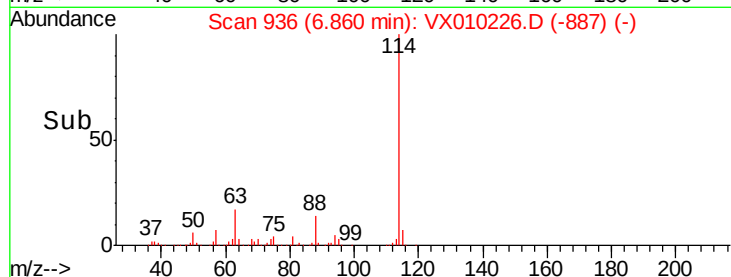
88 14.5 0.0 33.0



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



#35

Dibromofluoromethane

Concen: 50.004 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

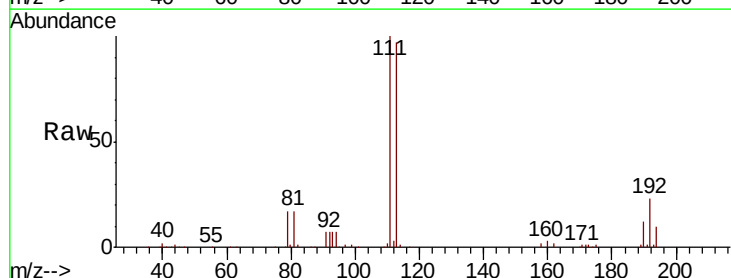
Tgt Ion:113 Resp: 117164

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.2

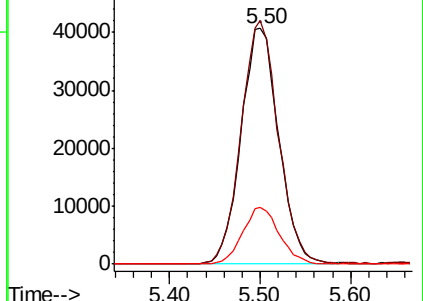
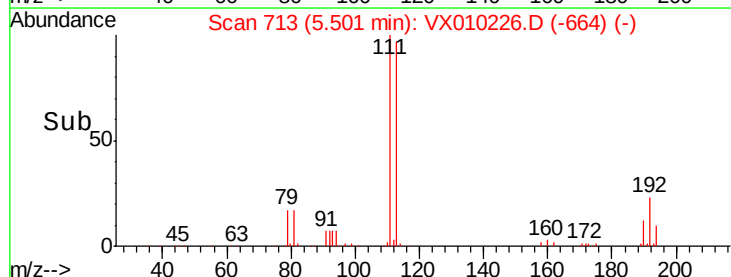
192 23.5 17.1 25.7

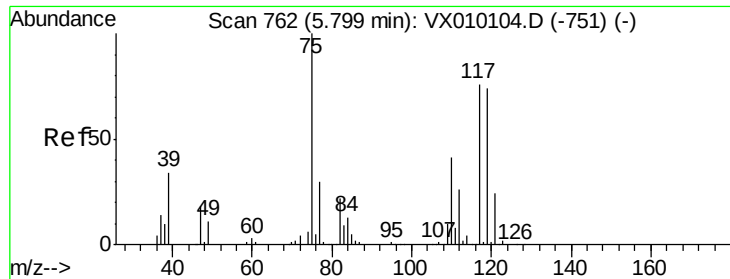


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

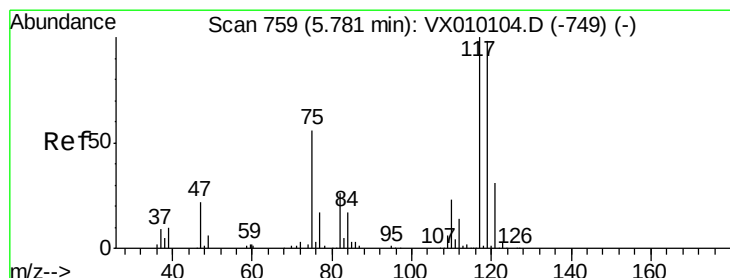
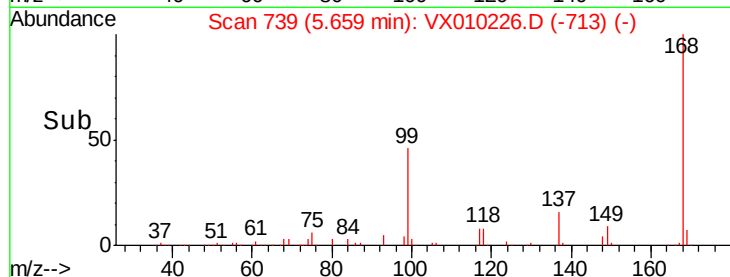
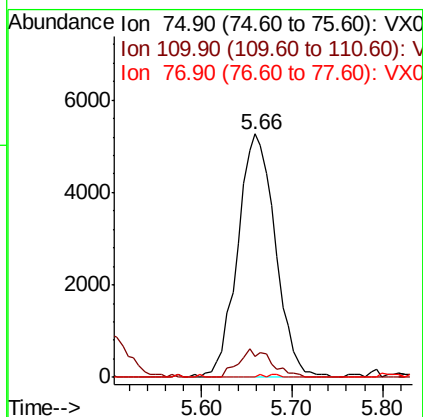
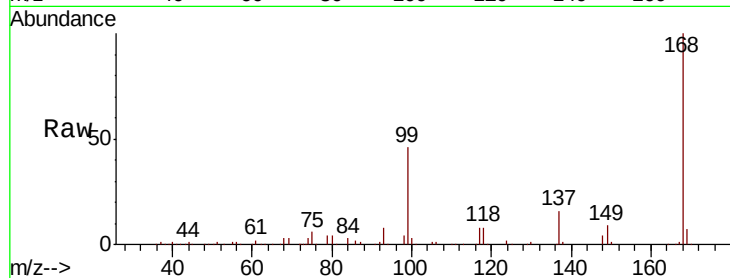




#36
 1,1-Dichloropropene
 Concen: 4.881 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010226.D
 Acq: 11 Jun 2019 12:45

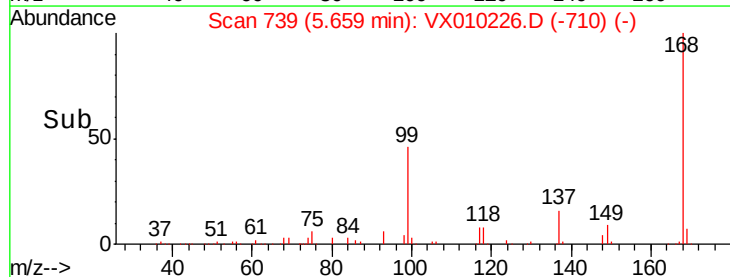
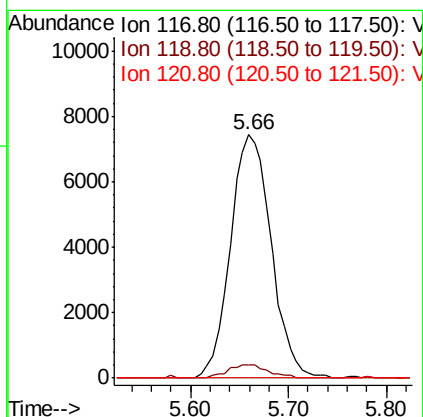
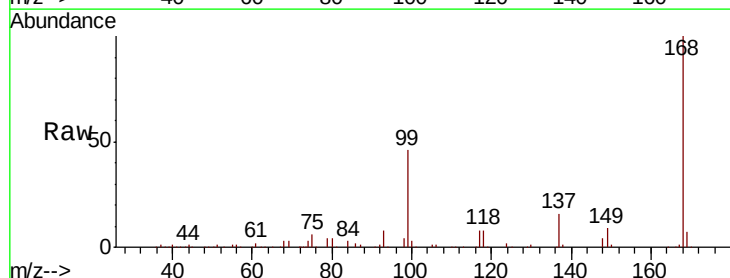
Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW312S-20190607

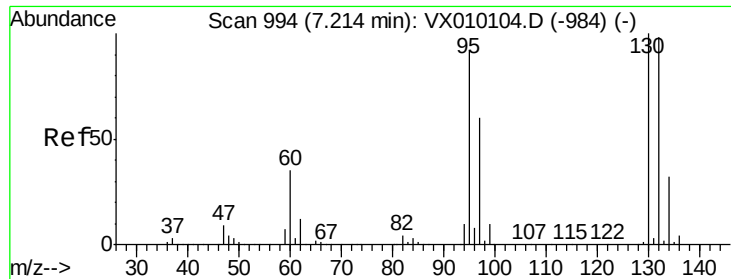
Tot Ion: 75 Resp: 15127
 Ion Ratio Lower Upper
 75 100
 110 10.2 16.7 50.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.096 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX010226.D
 Acq: 11 Jun 2019 12:45

Tgt Ion: 117 Resp: 21385
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.3 115.9#
 121 0.0 25.4 38.0#





#44

Trichloroethene

Concen: 0.901 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

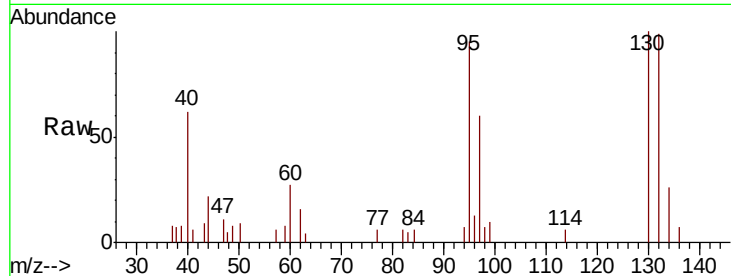
BPS1-TT-MW312S-20190607

Tot Ion:130 Resp: 2604

Ion Ratio Lower Upper

130 100

95 94.9 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

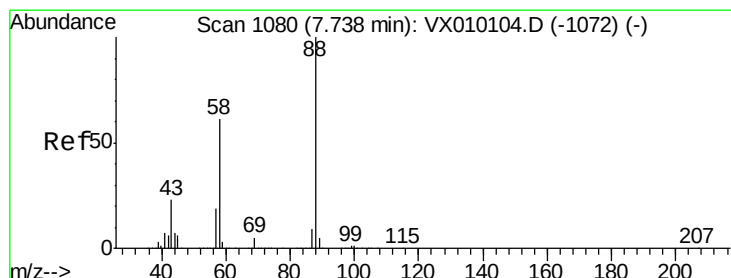
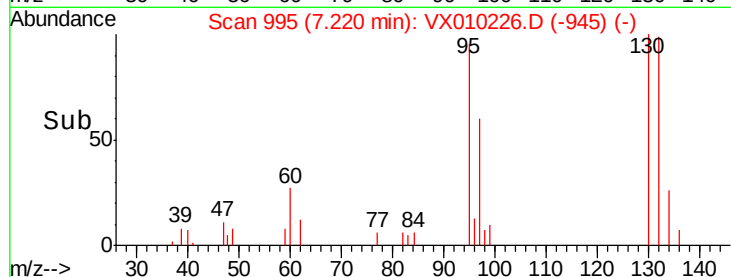
1000

500

0

Time-->

7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 0.334 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.04 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

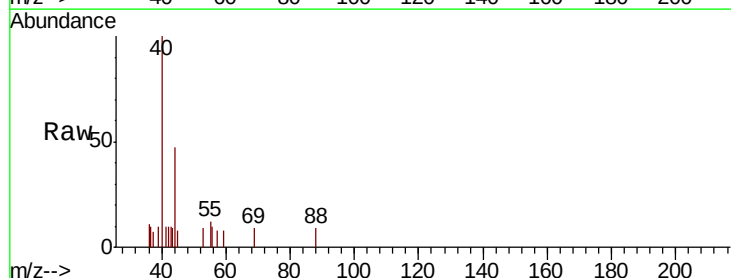
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 62.5 30.2 45.4#

58 0.0 64.0 96.0#



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

150

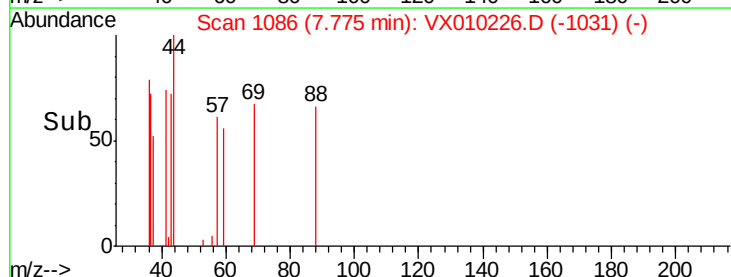
100

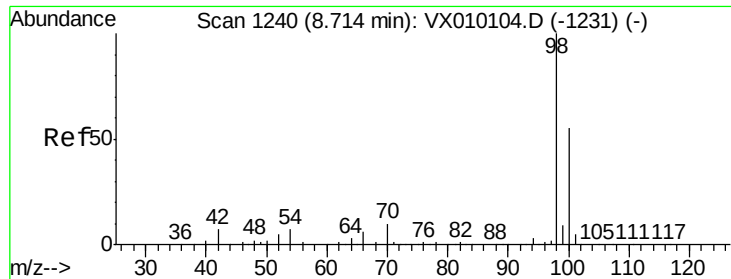
50

0

Time-->

7.76 7.77 7.78 7.79





#50

Toluene-d8

Concen: 50.702 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

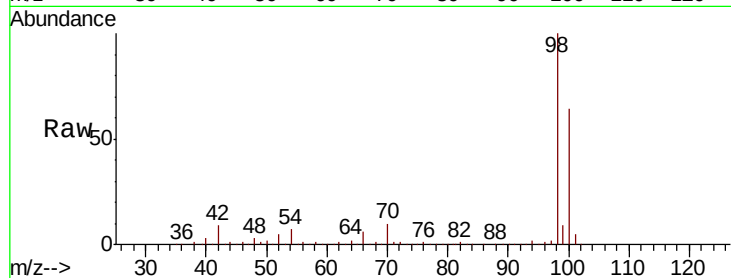
BPS1-TT-MW312S-20190607

Tot Ion: 98 Resp: 445243

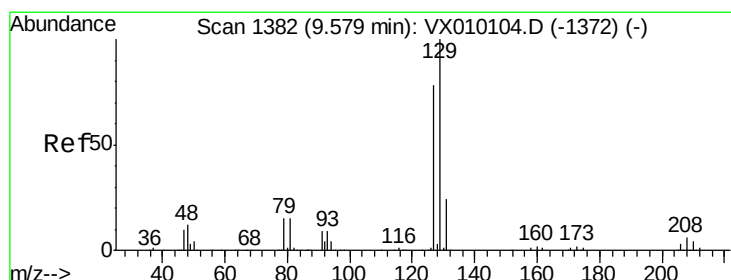
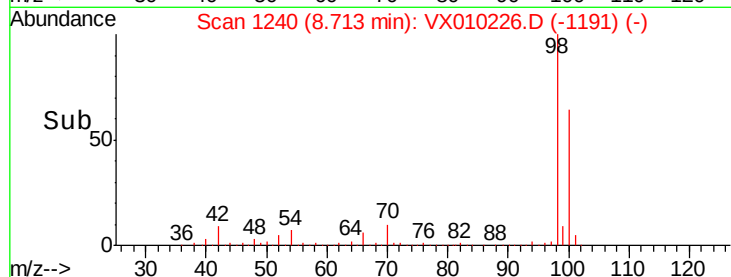
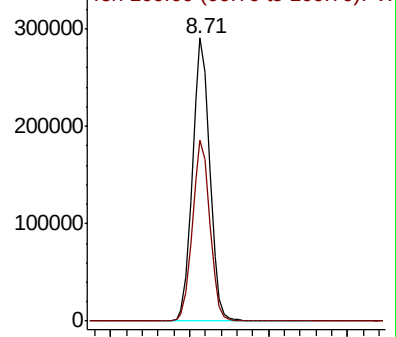
Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX010104.D (-1231) (-)



#60

Dibromochloromethane

Concen: 0.253 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. -0.24 min

Lab File: VX010226.D

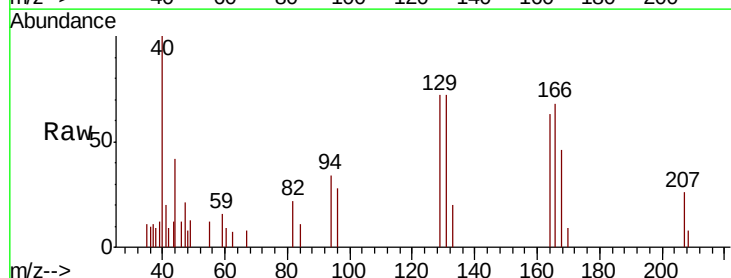
Acq: 11 Jun 2019 12:45

Tgt Ion: 129 Resp: 771

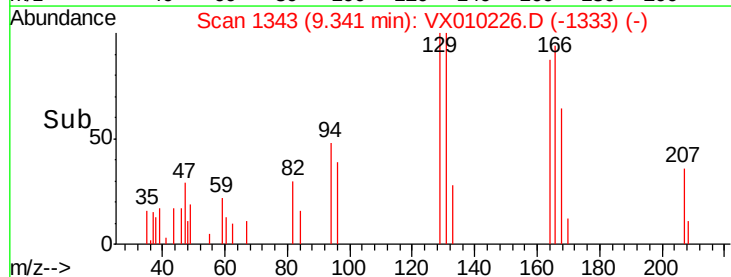
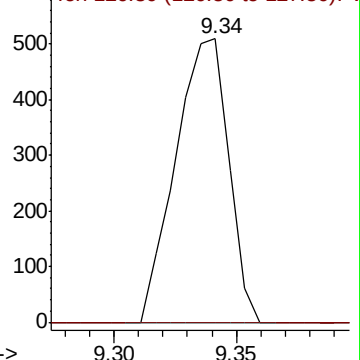
Ion Ratio Lower Upper

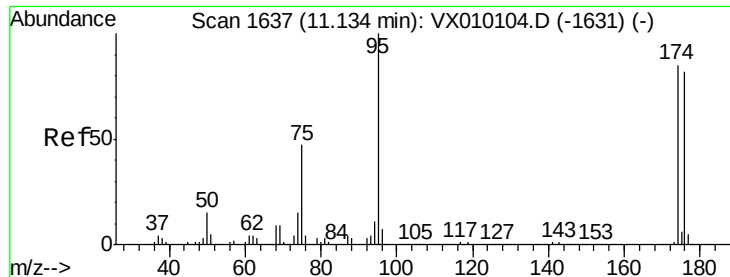
129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VX010104.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 46.592 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW312S-20190607

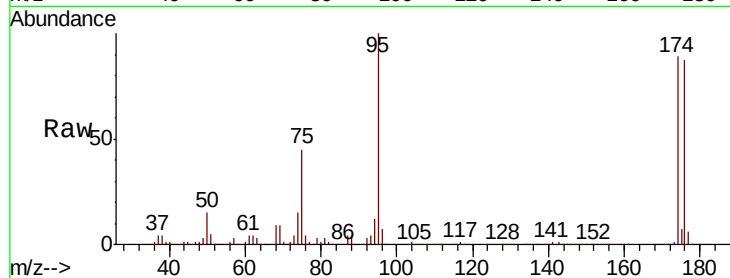
Tot Ion: 95 Resp: 152801

Ion Ratio Lower Upper

95 100

174 94.3 0.0 160.4

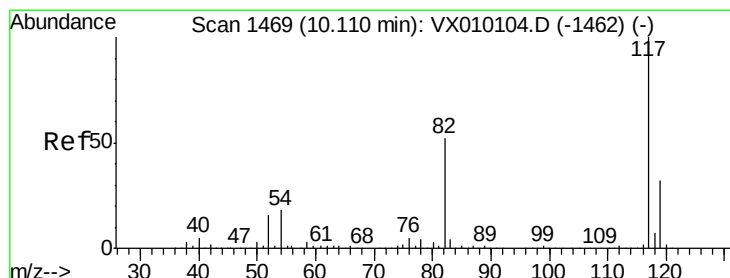
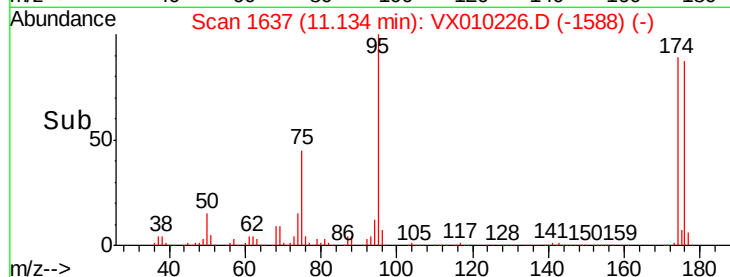
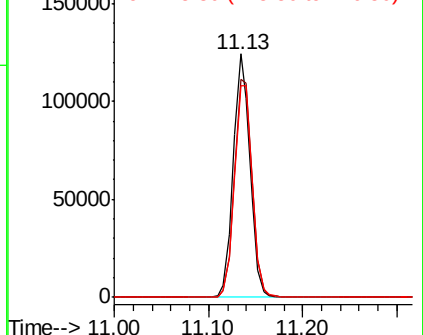
176 92.6 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

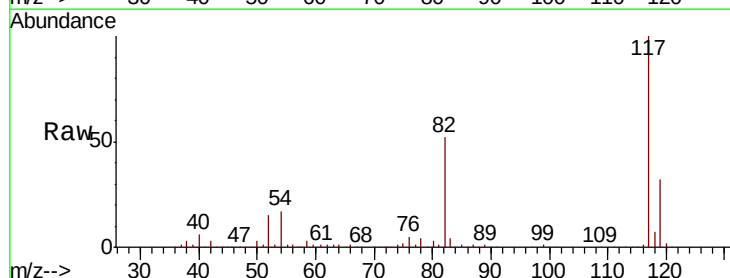
Tgt Ion: 117 Resp: 338201

Ion Ratio Lower Upper

117 100

82 51.7 49.2 73.8

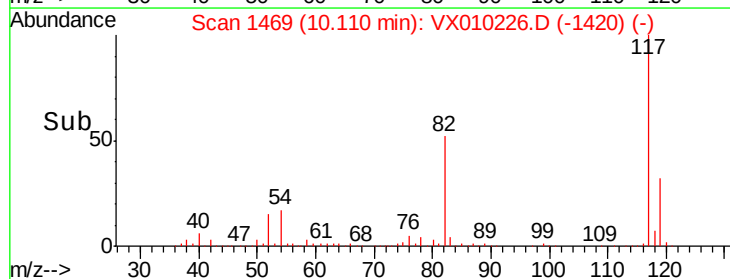
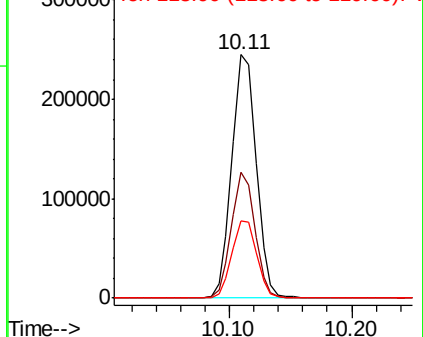
119 31.9 25.2 37.8

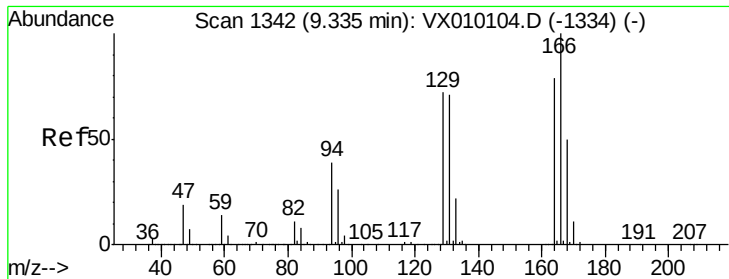


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.306 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW312S-20190607

Tot Ion:164 Resp: 768

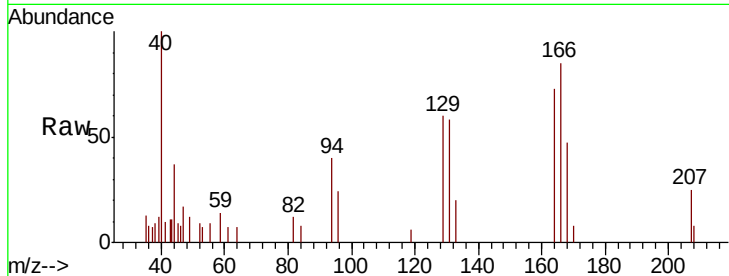
Ion Ratio Lower Upper

164 100

166 116.0 105.0 157.4

129 81.6 75.1 112.7

131 79.9 72.2 108.4



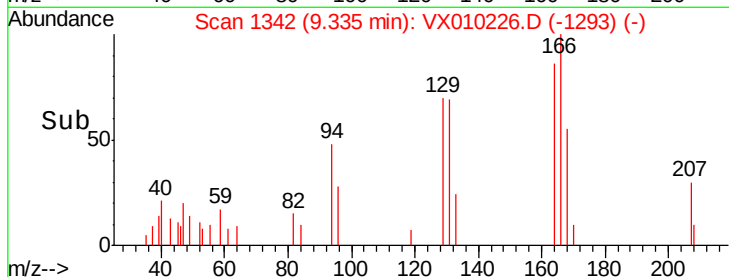
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

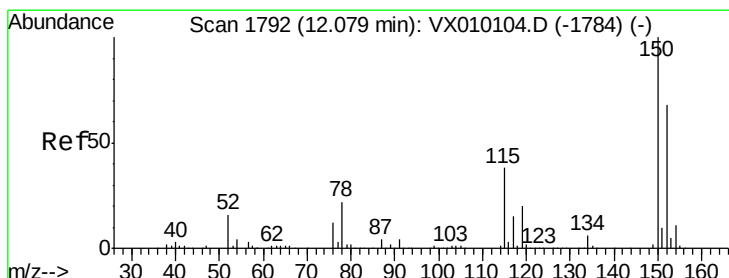
Ion 130.80 (130.50 to 131.50): V

Time-->



Abundance

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

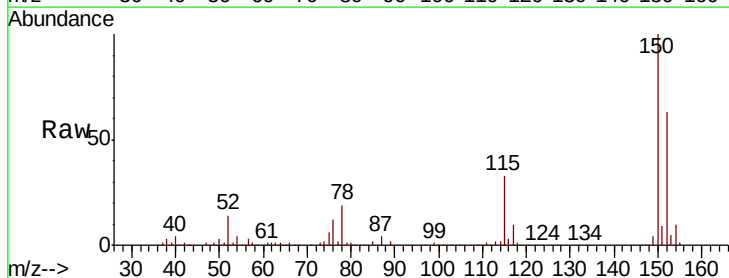
Tgt Ion:152 Resp: 159168

Ion Ratio Lower Upper

152 100

115 54.0 41.4 124.2

150 157.4 0.0 345.2

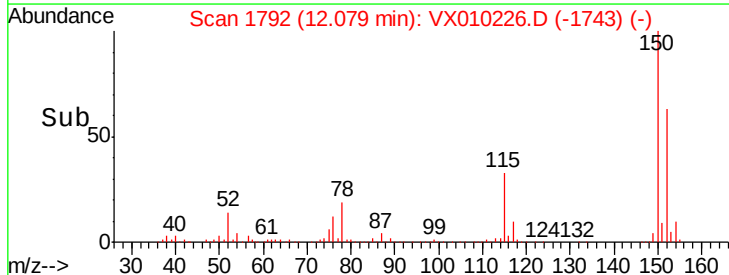


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

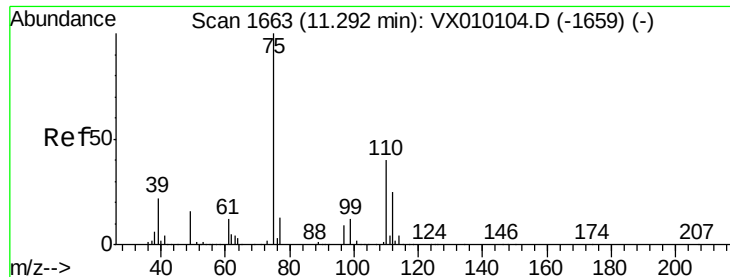
Ion 149.90 (149.60 to 150.60): V

Time-->



Abundance

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.780 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

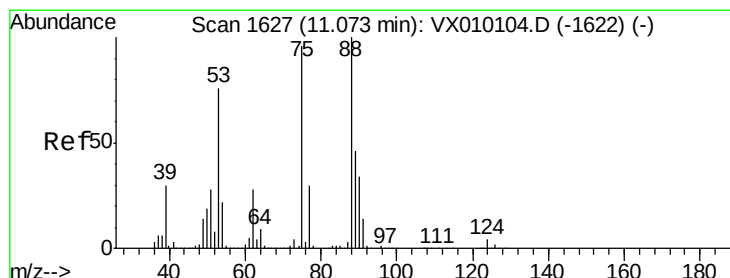
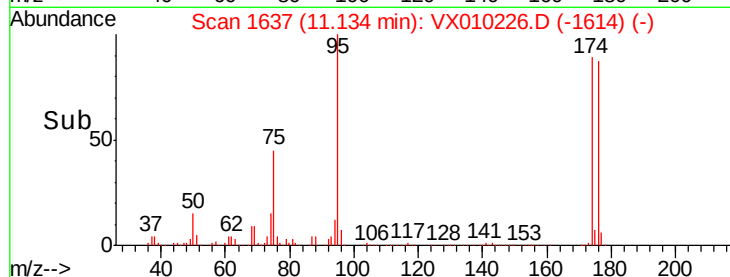
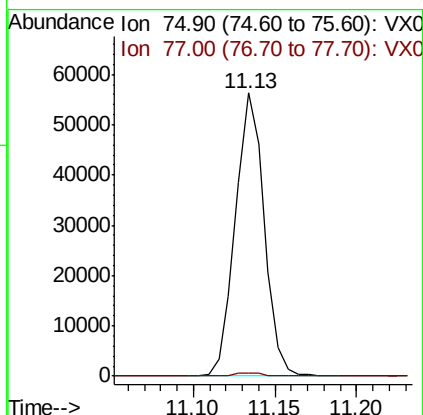
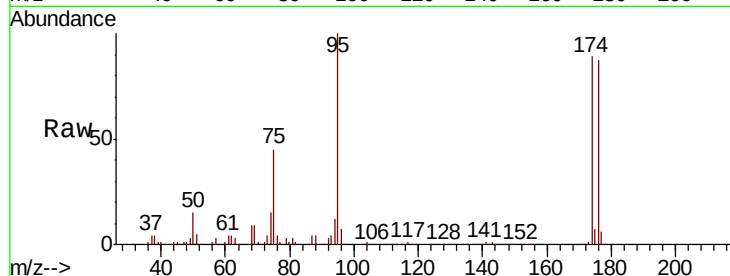
BPS1-TT-MW312S-20190607

Tot Ion: 75 Resp: 69341

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.122 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010226.D

Acq: 11 Jun 2019 12:45

Tgt Ion: 75 Resp: 69341

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 34.2 51.4#

