

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022519\
 Data File : VX007684.D
 Acq On : 25 Feb 2019 19:53
 Operator : JC/SP
 Sample : K1578-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-DUP-20190221

Quant Time: Feb 26 02:24:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	361919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	613365	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	564084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	258143	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	216480	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
35) Dibromofluoromethane	5.51	113	201800	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
50) Toluene-d8	8.71	98	736652	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
62) 4-Bromofluorobenzene	11.13	95	256184	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	

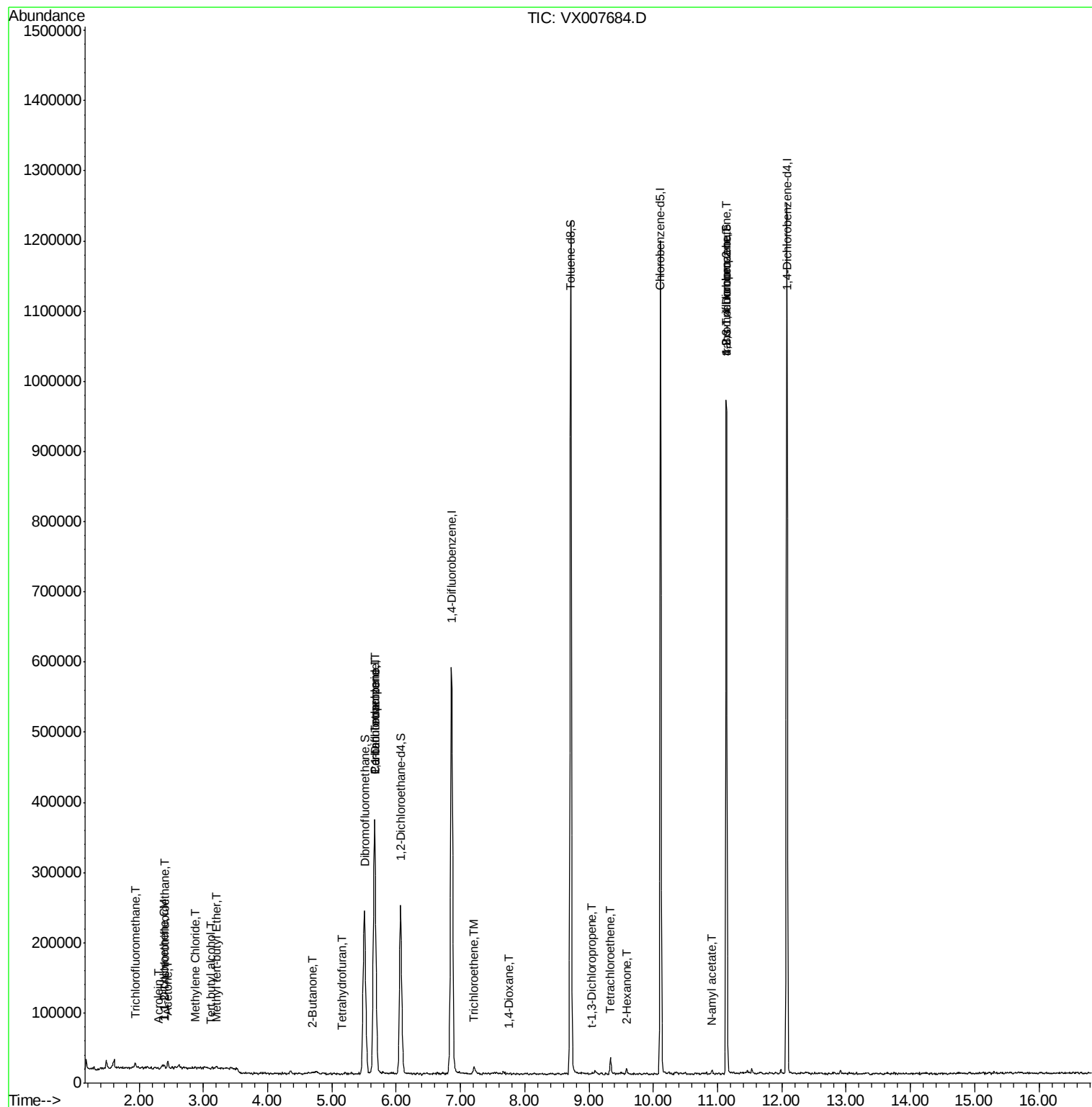
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	300	Below Cal	#	49
7) Trichlorofluoromethane	1.94	101	4985	0.858	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.40	101	1365	0.389	ug/l #	62
11) Tert butyl alcohol	3.11	59	316	0.372	ug/l #	1
12) 1,1-Dichloroethene	2.39	96	1376	0.435	ug/l #	63
13) Acrolein	2.31	56	429	0.568	ug/l #	14
16) Acetone	2.45	43	11001	5.518	ug/l #	81
19) Methyl tert-butyl Ether	3.20	73	2596	0.235	ug/l #	1
20) Methylene Chloride	2.87	84	821	0.223	ug/l #	9
25) 2-Butanone	4.70	43	4335	1.427	ug/l	95
29) Tetrahydrofuran	5.16	42	481	0.240	ug/l #	58
36) 1,1-Dichloropropene	5.66	75	25119	4.555	ug/l #	50
38) Carbon Tetrachloride	5.66	117	33399	6.030	ug/l #	16
44) Trichloroethene	7.21	130	4557	0.973	ug/l	91
49) 1,4-Dioxane	7.76	88	235	2.202	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	199	2.831	ug/l #	43
59) 2-Hexanone	9.58	43	1107	0.223	ug/l	99
64) Tetrachloroethene	9.33	164	4540	0.991	ug/l	93
74) N-amyl acetate	10.91	43	1673	0.209	ug/l #	38
76) 1,2,3-Trichloropropane	11.13	75	122578	22.277	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	122578	59.113	ug/l #	9

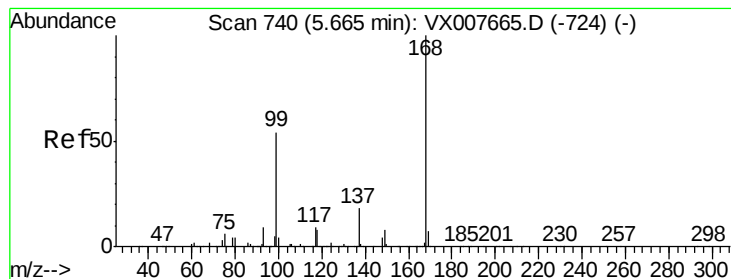
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX022519\
Data File : VX007684.D
Acq On : 25 Feb 2019 19:53
Operator : JC/SP
Sample : K1578-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-DUP-20190221

Quant Time: Feb 26 02:24:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

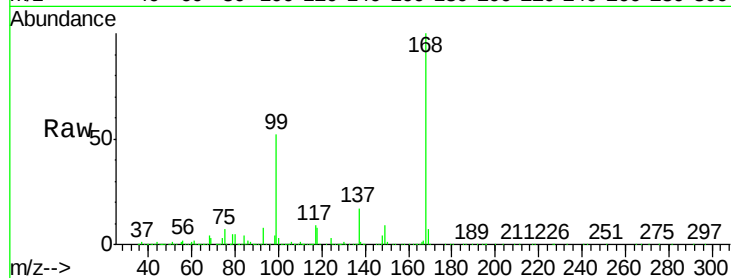
BP-VPB201-DUP-20190221

Tot Ion:168 Resp: 361919

Ion Ratio Lower Upper

168 100

99 52.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

150000

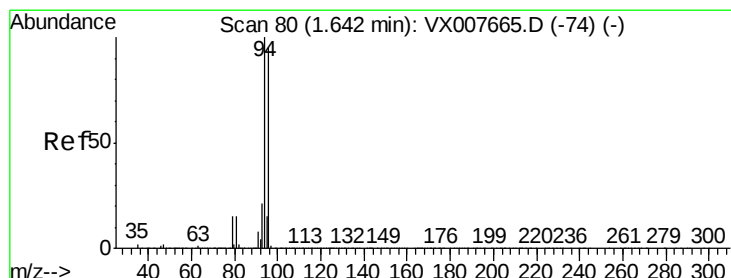
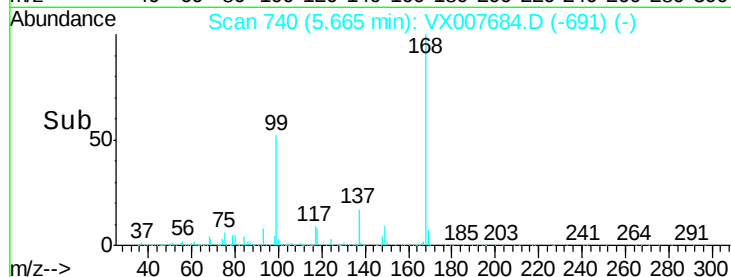
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007684.D

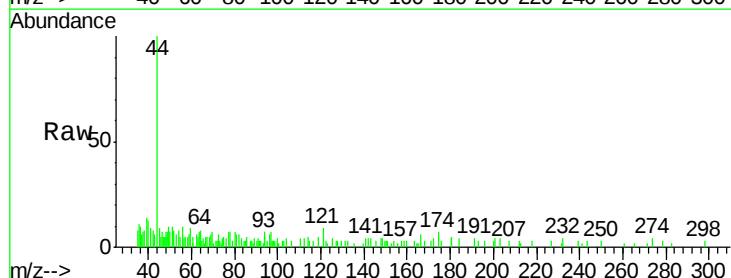
Acq: 25 Feb 2019 19:53

Tgt Ion: 94 Resp: 300

Ion Ratio Lower Upper

94 100

96 43.8 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

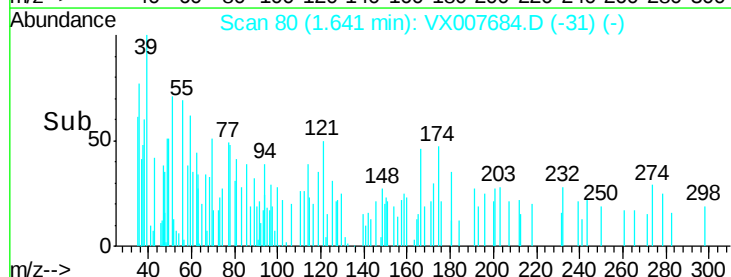
200

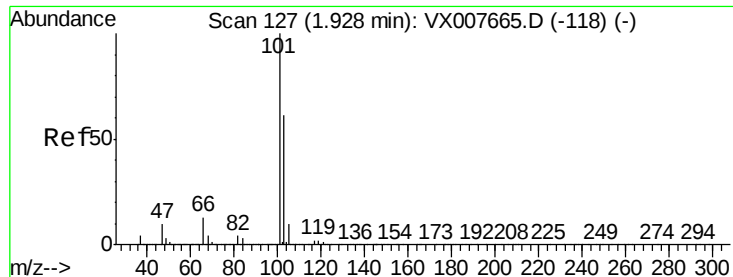
100

0

Time-->

1.62 1.64 1.66 1.68





#7

Trichlorofluoromethane

Concen: 0.858 ug/l

RT: 1.94 min Scan# 129

Delta R.T. 0.01 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

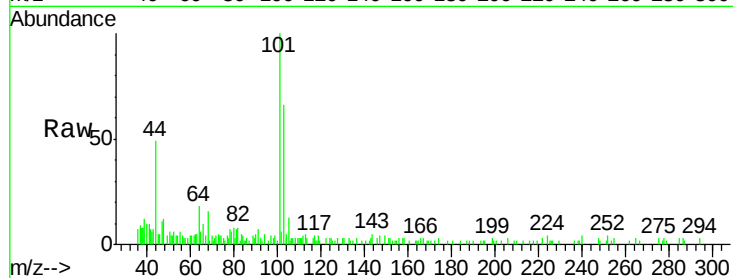
BP-VPB201-DUP-20190221

Tot Ion:101 Resp: 4985

Ion Ratio Lower Upper

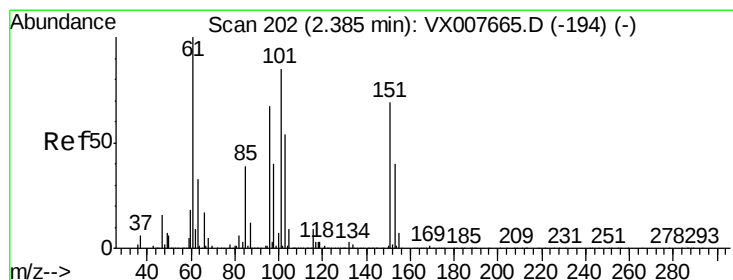
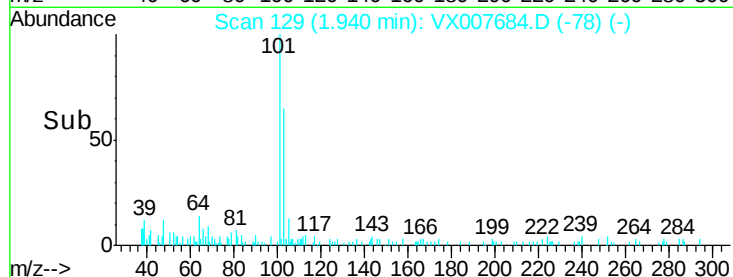
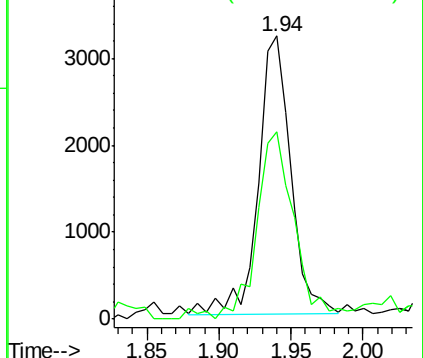
101 100

103 63.8 52.6 79.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.389 ug/l

RT: 2.40 min Scan# 204

Delta R.T. 0.01 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

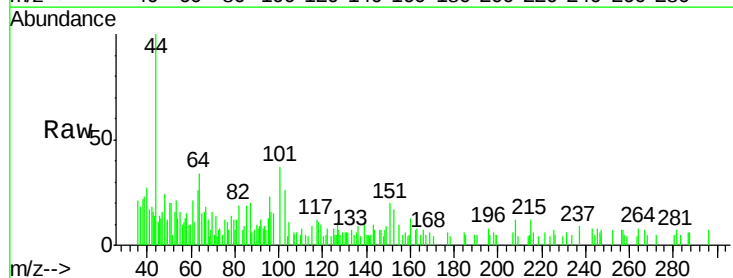
Tgt Ion:101 Resp: 1365

Ion Ratio Lower Upper

101 100

85 42.1 34.1 51.1

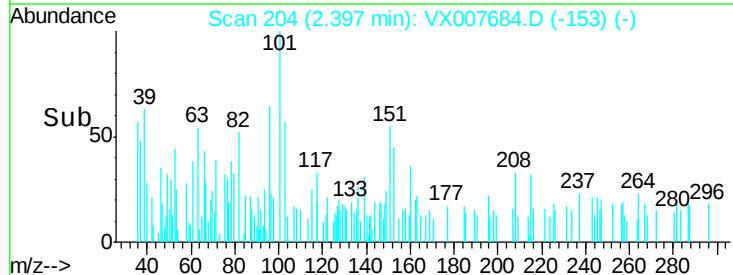
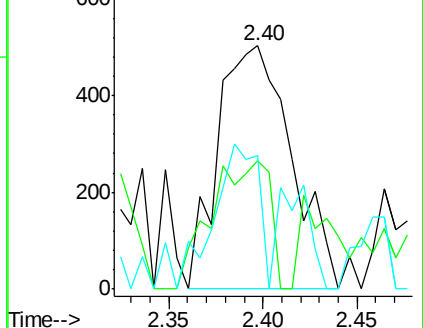
151 35.9 69.9 104.9#

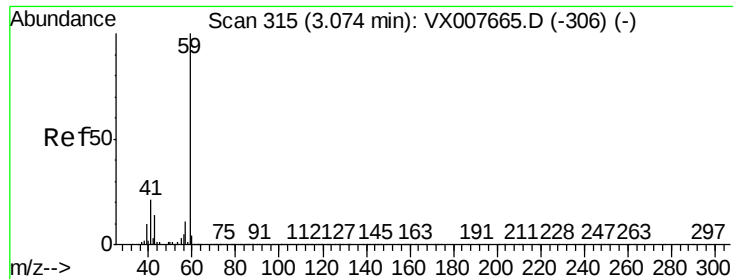


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

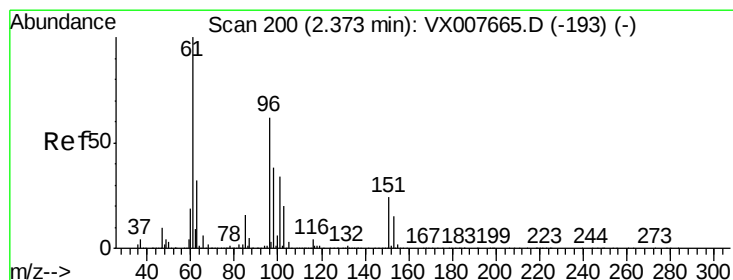
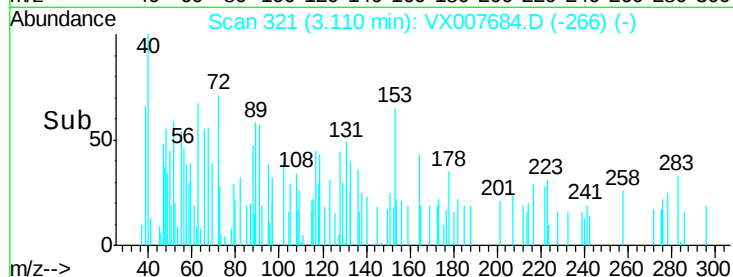
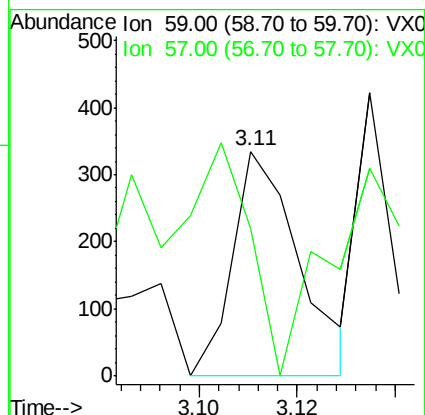
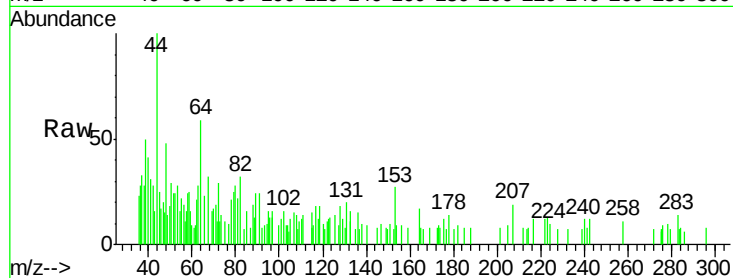




#11
Tert butyl alcohol
Concen: 0.372 ug/l
RT: 3.11 min Scan# 321
Delta R.T. 0.04 min
Lab File: VX007684.D
Acq: 25 Feb 2019 19:53

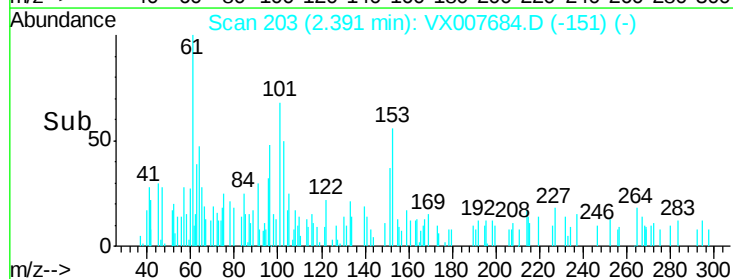
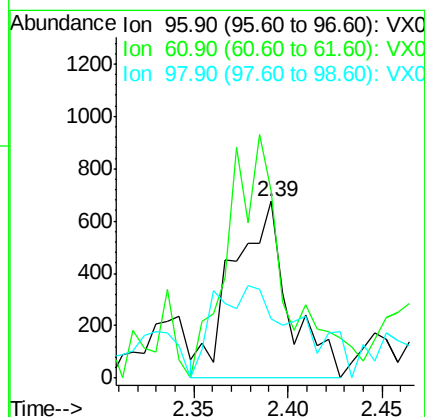
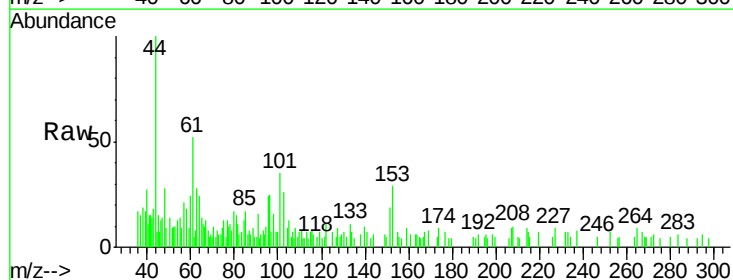
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-DUP-20190221

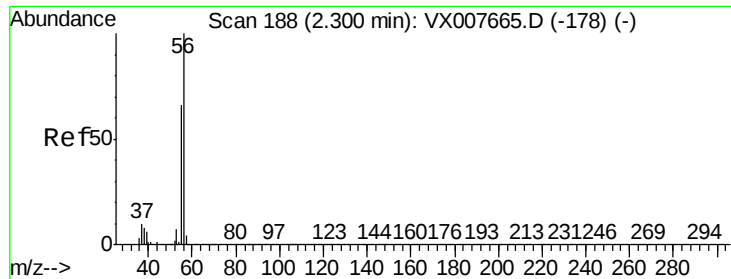
Tot Ion: 59 Resp: 316
Ion Ratio Lower Upper
59 100
57 166.8 8.1 12.1#



#12
1,1-Dichloroethene
Concen: 0.435 ug/l
RT: 2.39 min Scan# 203
Delta R.T. 0.02 min
Lab File: VX007684.D
Acq: 25 Feb 2019 19:53

Tgt Ion: 96 Resp: 1376
Ion Ratio Lower Upper
96 100
61 106.1 123.0 184.4#
98 33.4 50.9 76.3#

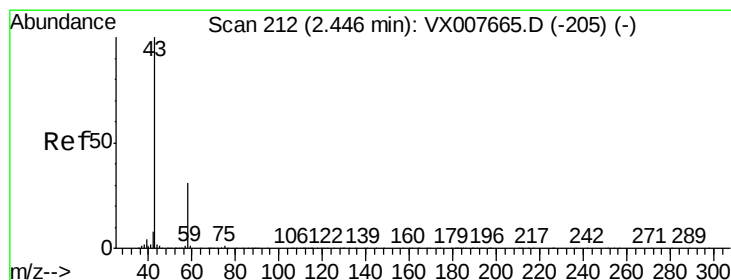
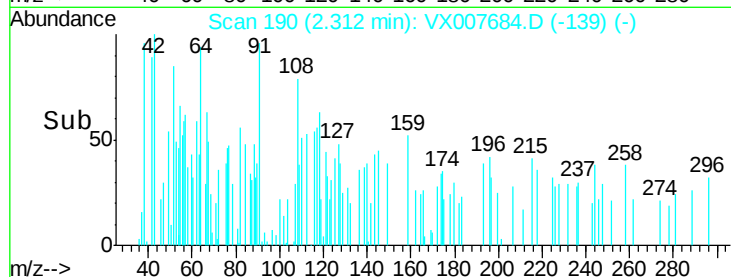
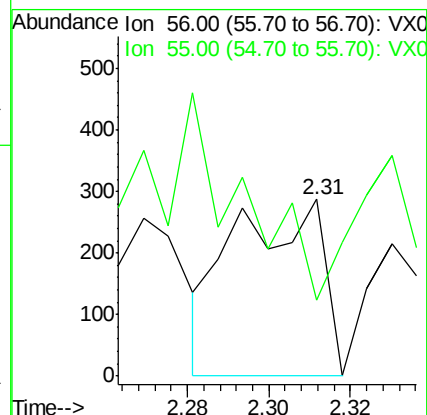
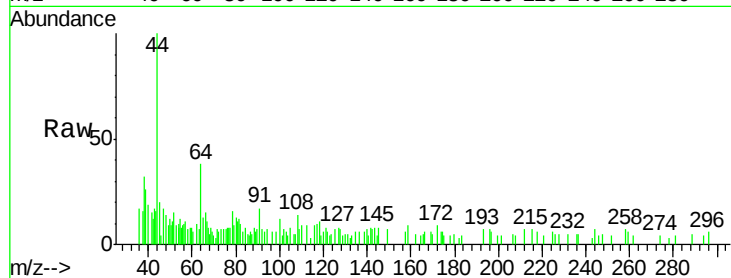




#13
Acrolein
Concen: 0.568 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.01 min
Lab File: VX007684.D
Acq: 25 Feb 2019 19:53

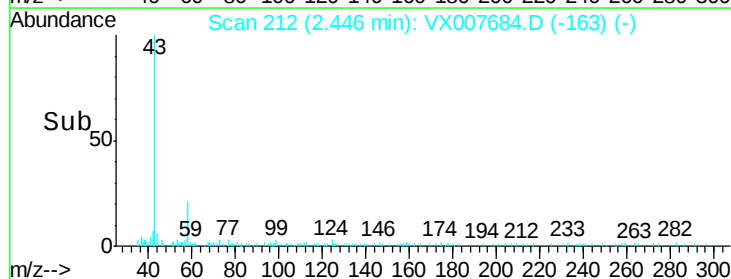
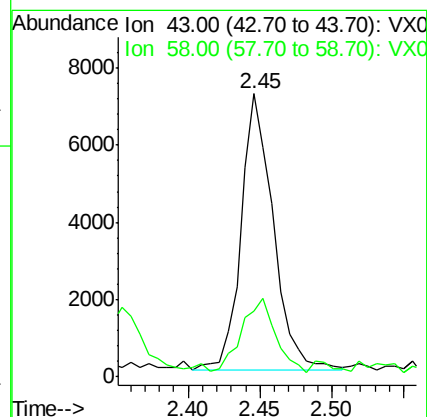
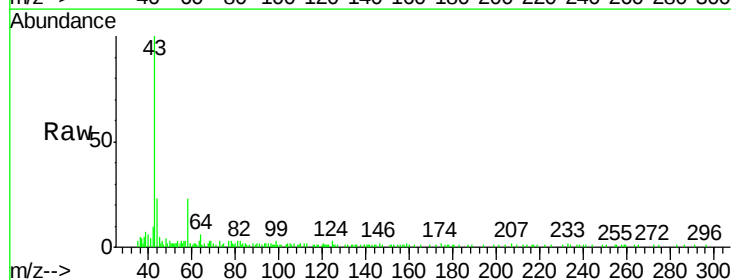
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-DUP-20190221

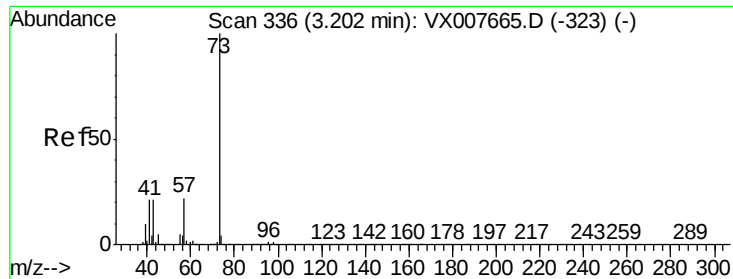
Tot Ion: 56 Resp: 429
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



#16
Acetone
Concen: 5.518 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007684.D
Acq: 25 Feb 2019 19:53

Tgt Ion: 43 Resp: 11001
Ion Ratio Lower Upper
43 100
58 20.7 24.9 37.3#



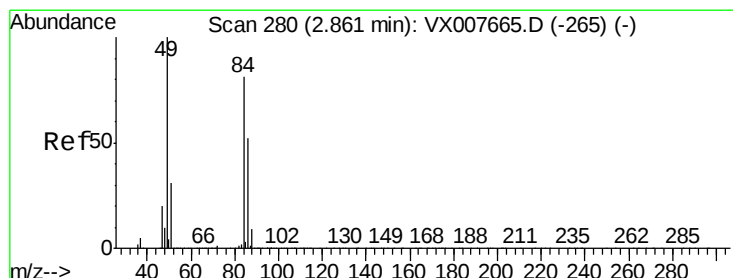
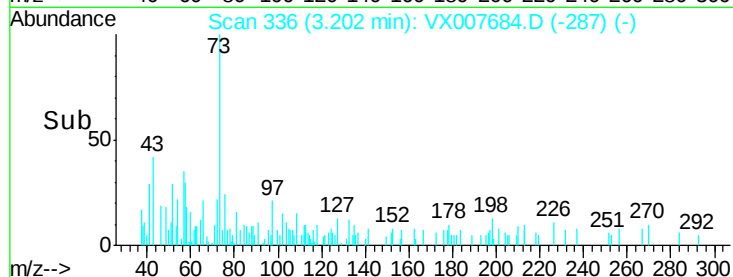
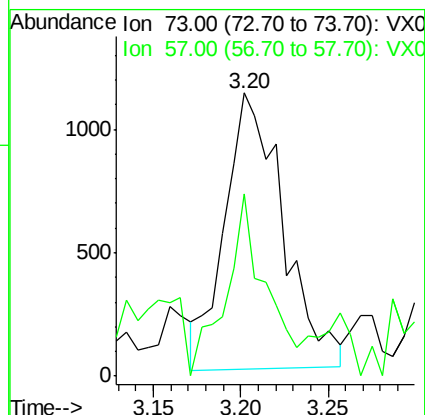
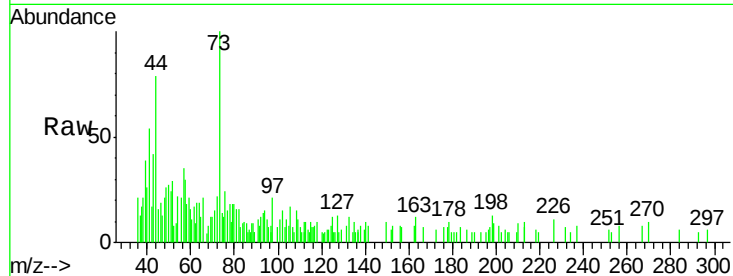


#19

Methyl tert-butyl Ether
 Concen: 0.235 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VX007684.D
 Acq: 25 Feb 2019 19:53

Instrument :
 MSVOA_X
 ClientSampleID :
 BP-VPB201-DUP-20190221

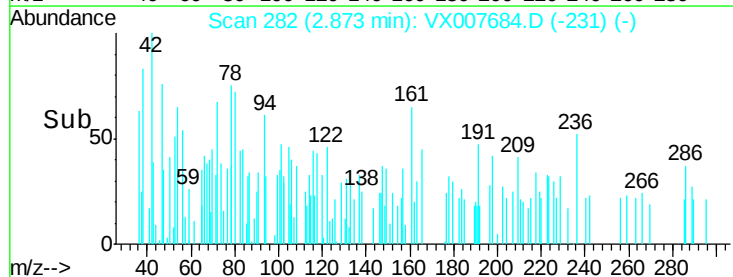
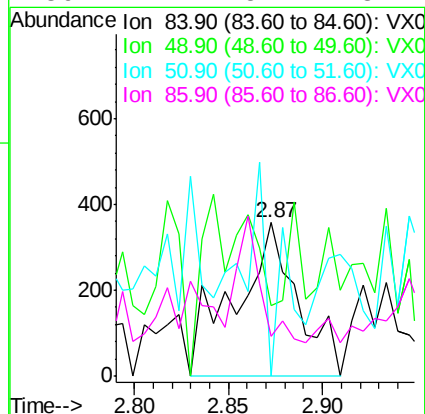
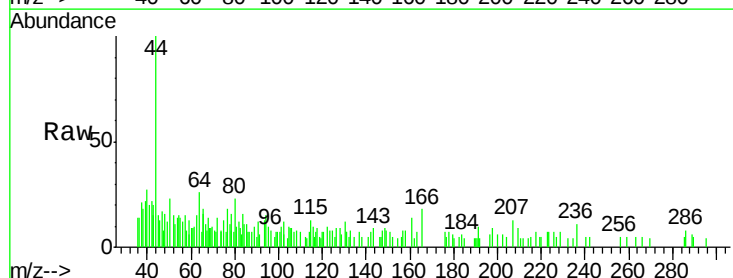
Tot Ion: 73 Resp: 2596
 Ion Ratio Lower Upper
 73 100
 57 76.7 17.8 26.8#

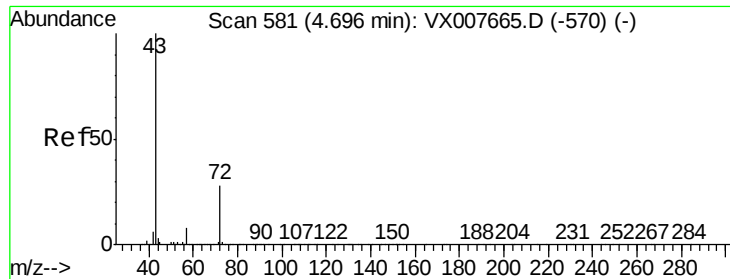


#20

Methylene Chloride
 Concen: 0.223 ug/l
 RT: 2.87 min Scan# 282
 Delta R.T. 0.01 min
 Lab File: VX007684.D
 Acq: 25 Feb 2019 19:53

Tgt Ion: 84 Resp: 821
 Ion Ratio Lower Upper
 84 100
 49 0.0 94.8 142.2#
 51 0.0 29.8 44.8#
 86 4.2 54.1 81.1#





#25

2-Butanone

Concen: 1.427 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

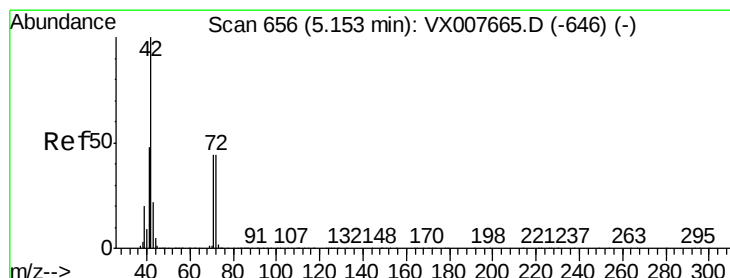
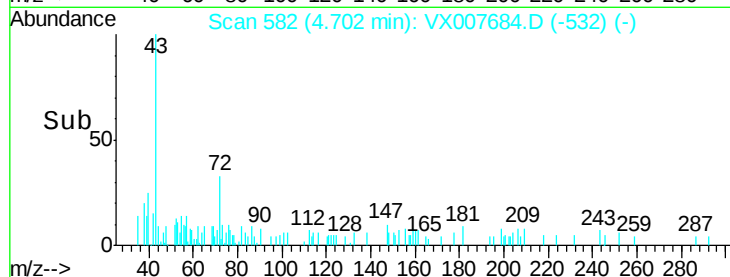
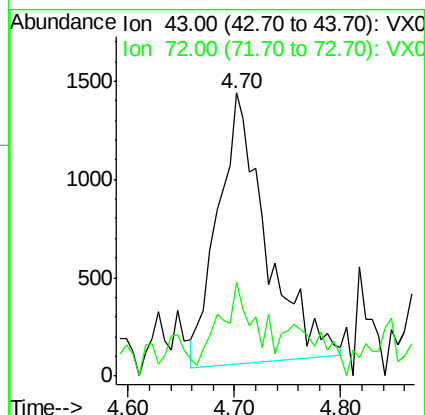
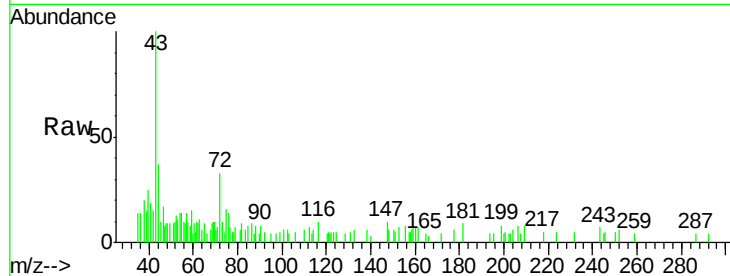
BP-VPB201-DUP-20190221

Tot Ion: 43 Resp: 4335

Ion Ratio Lower Upper

43 100

72 30.4 22.2 33.2



#29

Tetrahydrofuran

Concen: 0.240 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

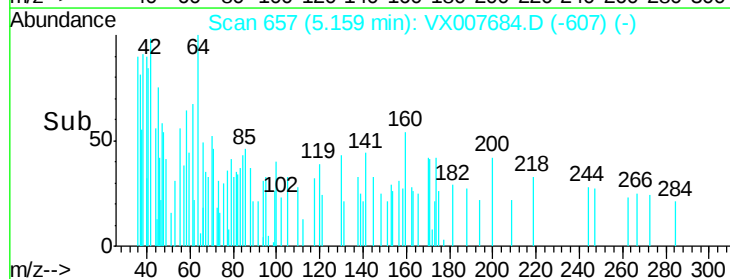
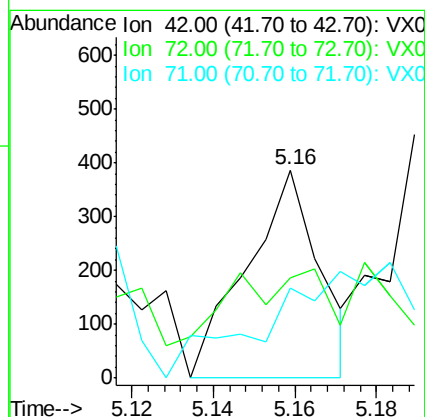
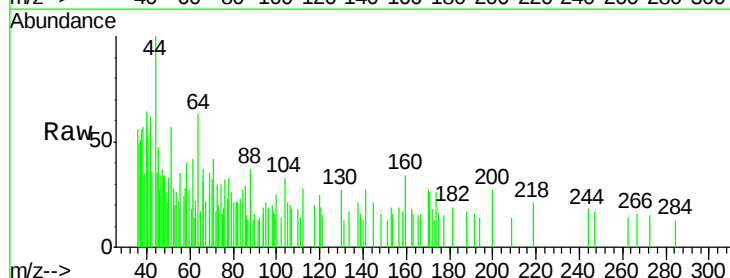
Tgt Ion: 42 Resp: 481

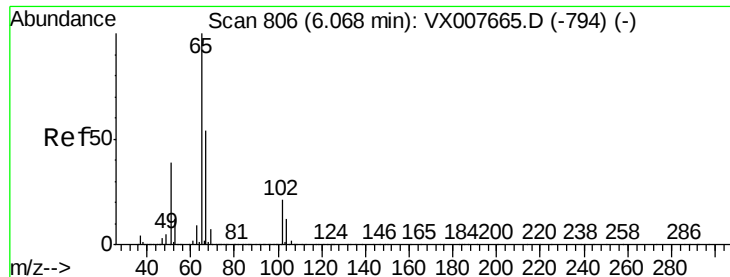
Ion Ratio Lower Upper

42 100

72 59.3 37.6 56.4#

71 0.0 34.6 51.8#





#33

1,2-Dichloroethane-d4

Concen: 48.289 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

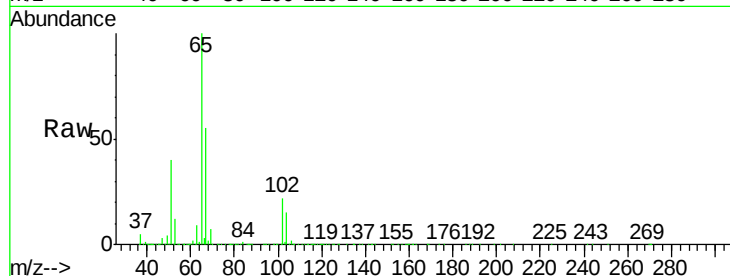
BP-VPB201-DUP-20190221

Tot Ion: 65 Resp: 216480

Ion Ratio Lower Upper

65 100

67 54.5 0.0 108.8

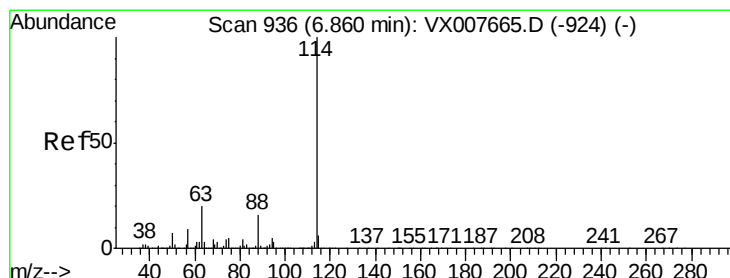
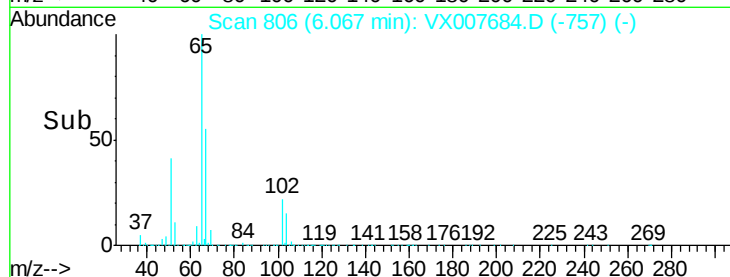


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

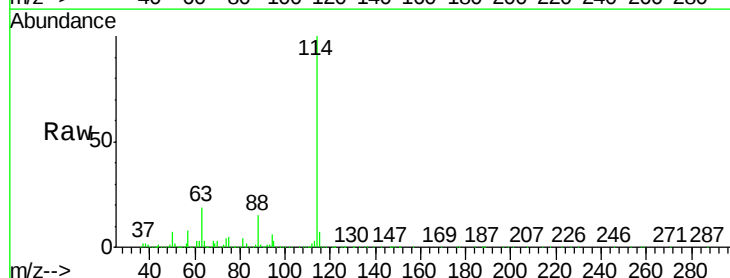
Tgt Ion: 114 Resp: 613365

Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.6

88 15.3 0.0 29.6



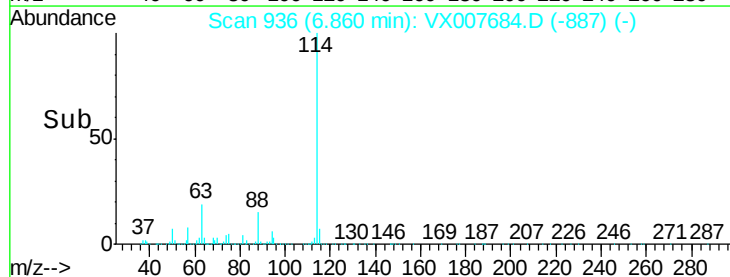
Abundance Ion 113.90 (113.60 to 114.60): V

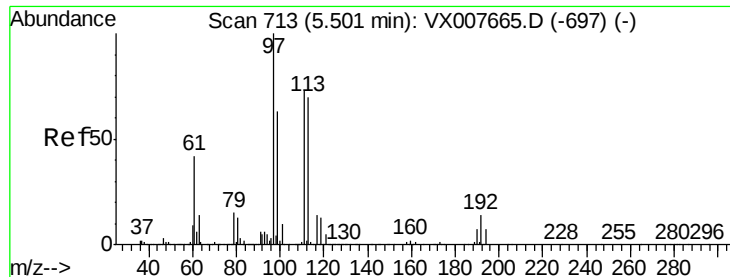
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

Time-->





#35

Dibromofluoromethane

Concen: 49.218 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-DUP-20190221

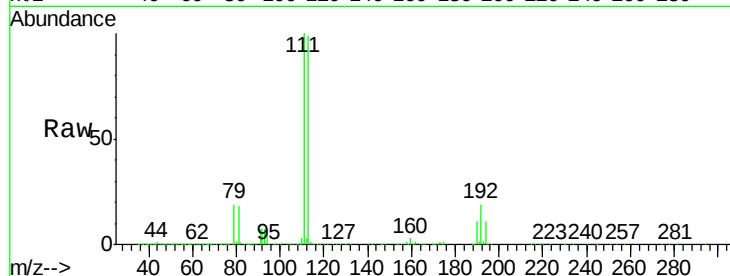
Tot Ion:113 Resp: 201800

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

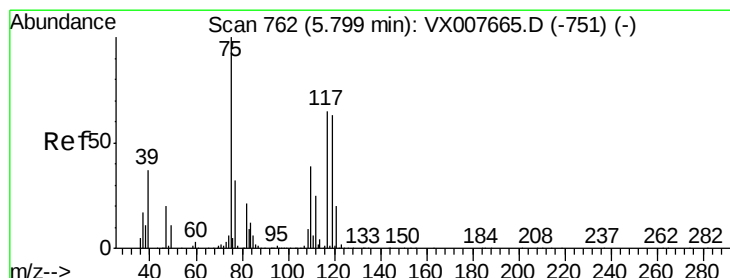
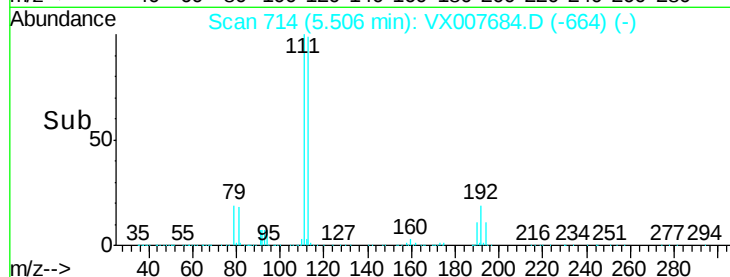
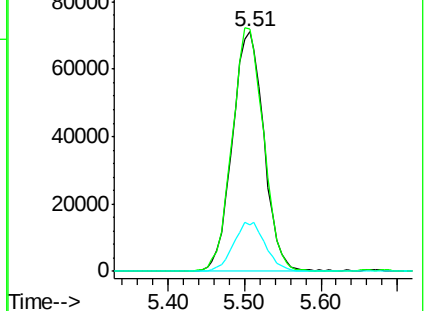
192 20.8 18.5 27.7



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: 4.555 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

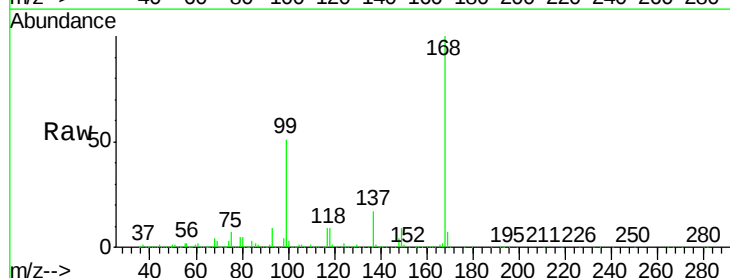
Tgt Ion: 75 Resp: 25119

Ion Ratio Lower Upper

75 100

110 11.8 20.0 59.9#

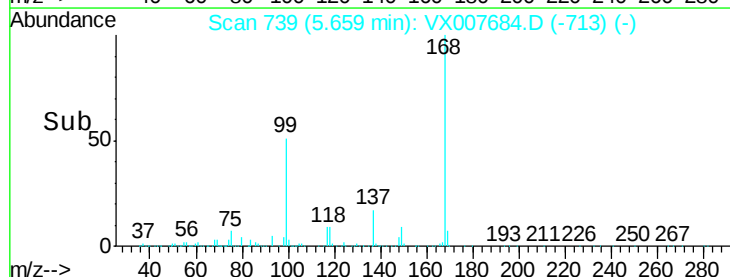
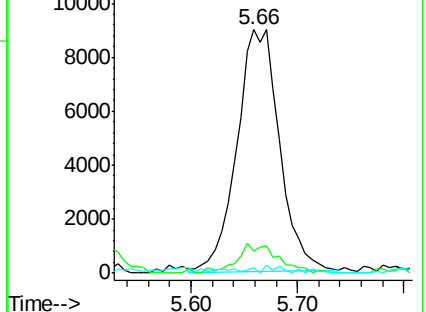
77 0.3 24.7 37.1#

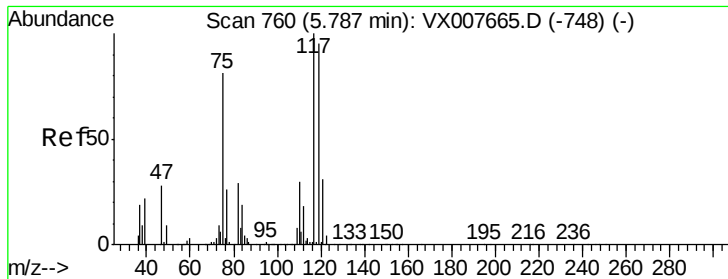


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.030 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-DUP-20190221

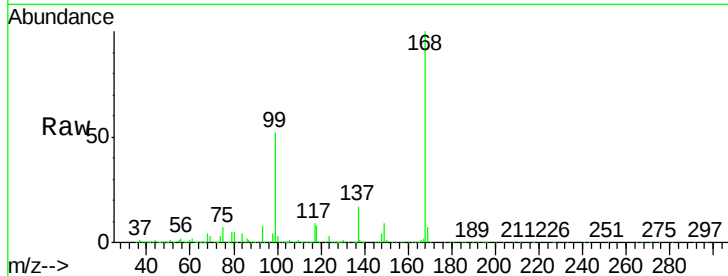
Tot Ion:117 Resp: 33399

Ion Ratio Lower Upper

117 100

119 4.3 75.3 112.9#

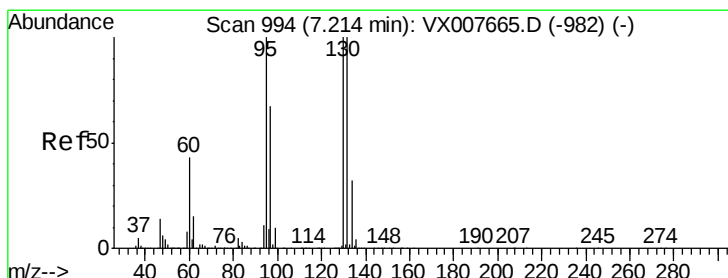
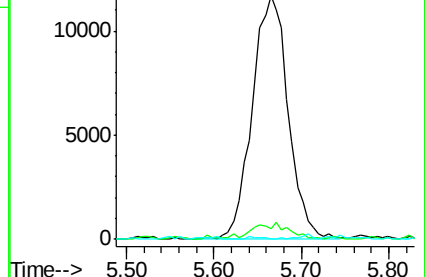
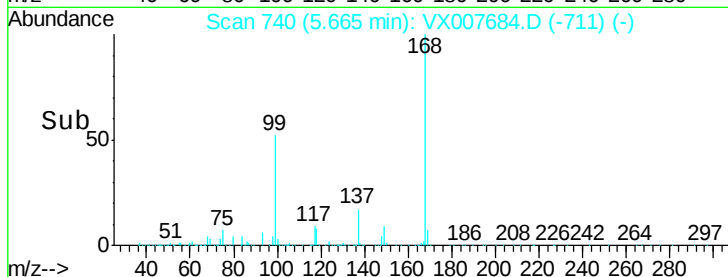
121 0.0 25.0 37.4#



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



#44

Trichloroethene

Concen: 0.973 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX007684.D

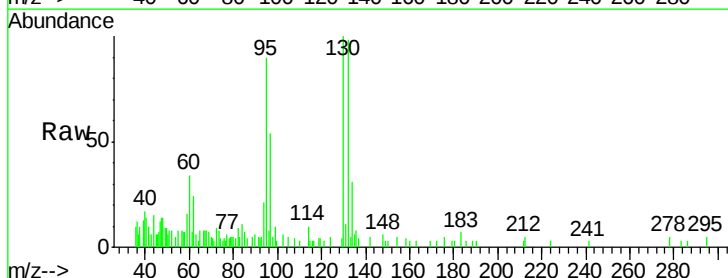
Acq: 25 Feb 2019 19:53

Tgt Ion:130 Resp: 4557

Ion Ratio Lower Upper

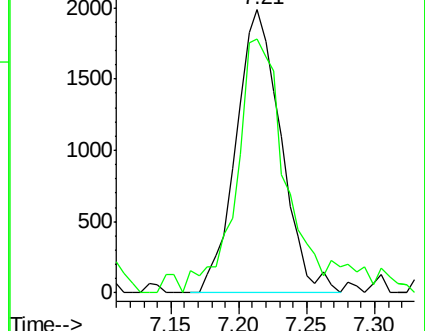
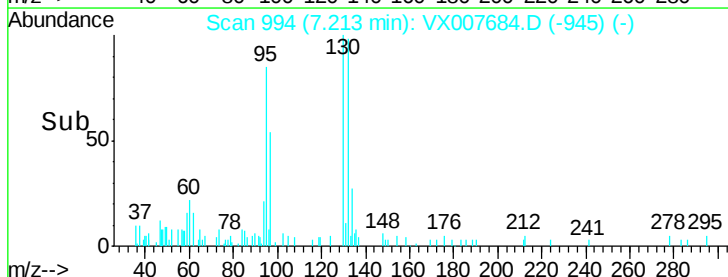
130 100

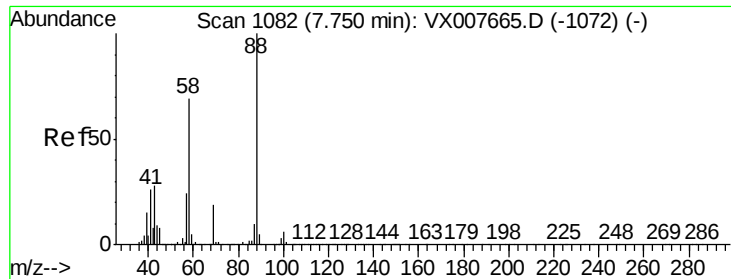
95 81.7 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

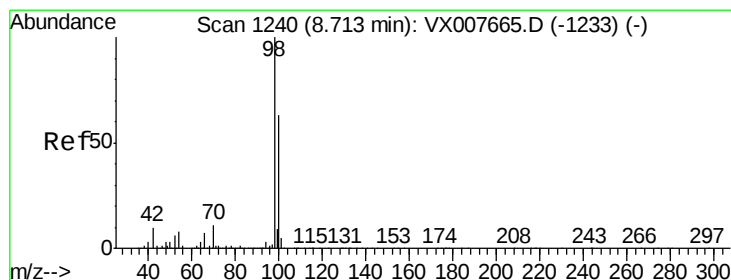
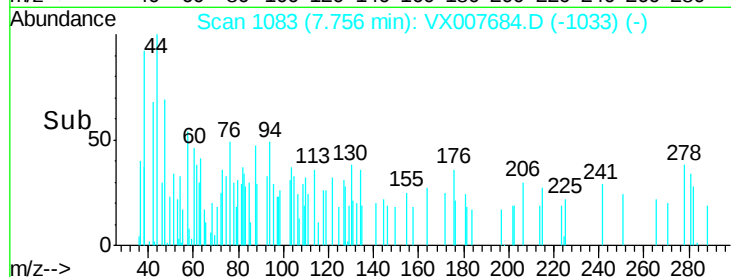
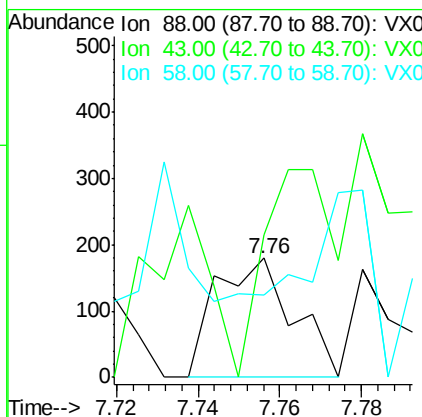
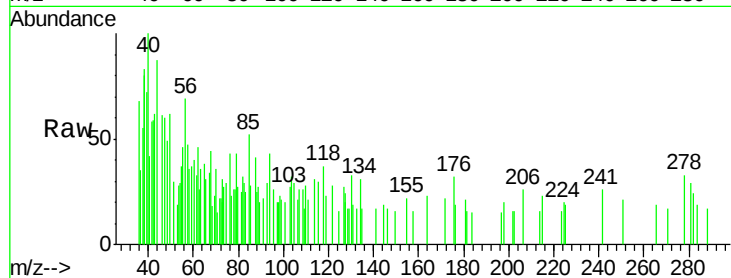




#49
1,4-Dioxane
Concen: 2.202 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007684.D
Acq: 25 Feb 2019 19:53

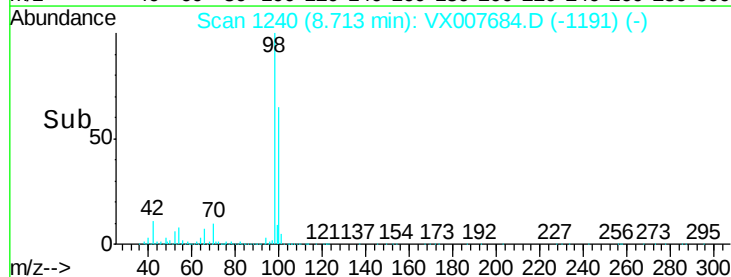
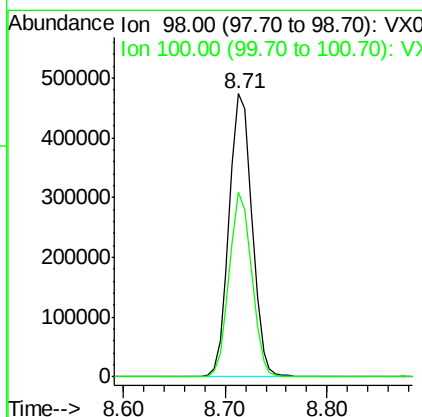
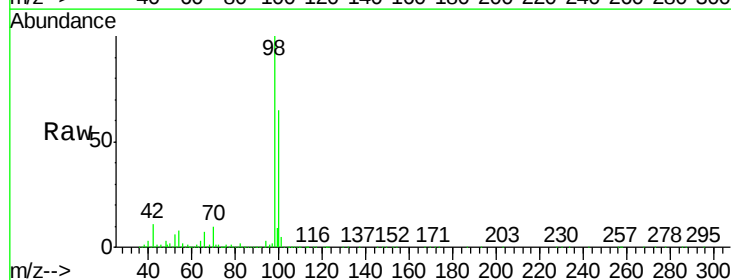
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-DUP-20190221

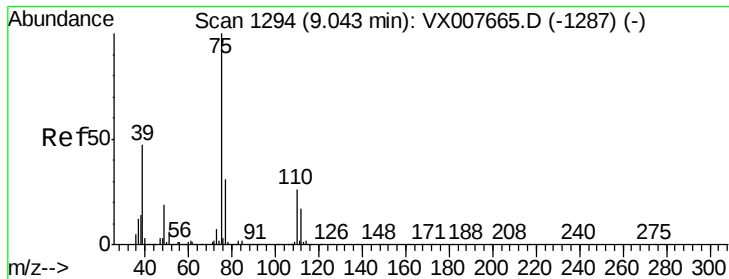
Tot Ion: 88 Resp: 235
Ion Ratio Lower Upper
88 100
43 158.3 24.2 36.4#
58 0.0 53.0 79.4#



#50
Toluene-d8
Concen: 46.930 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007684.D
Acq: 25 Feb 2019 19:53

Tgt Ion: 98 Resp: 736652
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4





#53

t-1,3-Dichloropropene

Concen: 2.831 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

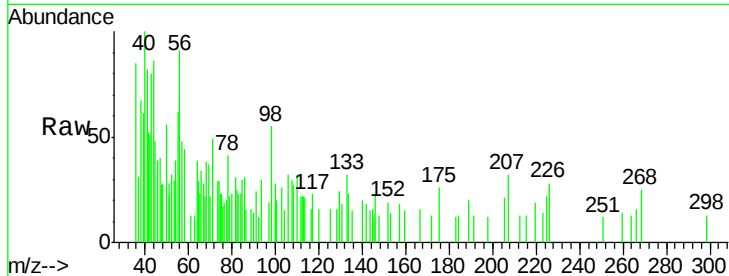
BP-VPB201-DUP-20190221

Tot Ion: 75 Resp: 199

Ion Ratio Lower Upper

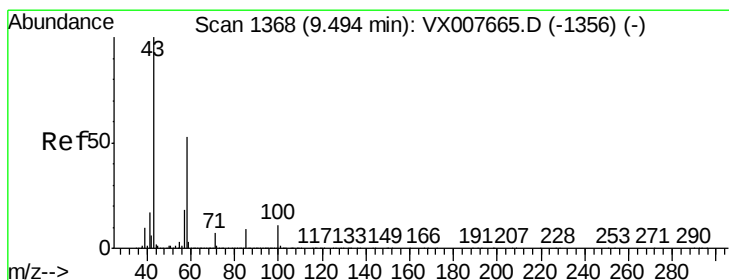
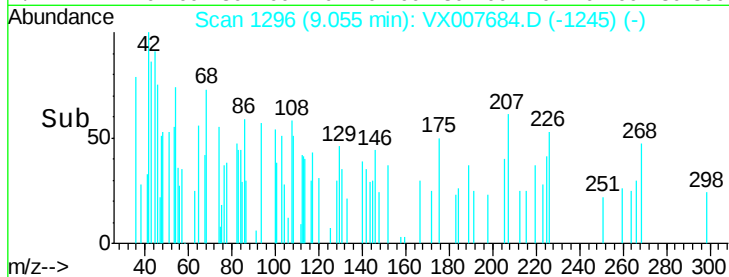
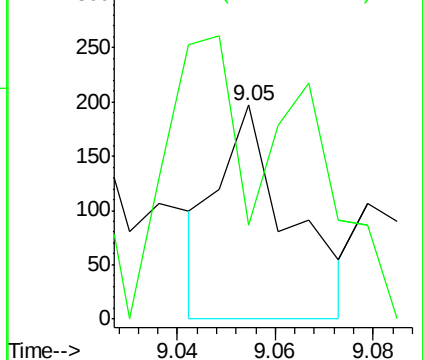
75 100

77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#59

2-Hexanone

Concen: 0.223 ug/l

RT: 9.58 min Scan# 1383

Delta R.T. 0.09 min

Lab File: VX007684.D

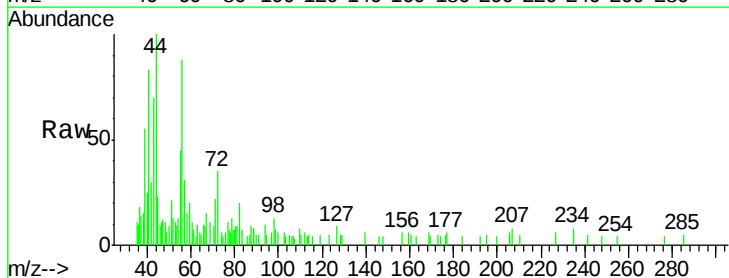
Acq: 25 Feb 2019 19:53

Tgt Ion: 43 Resp: 1107

Ion Ratio Lower Upper

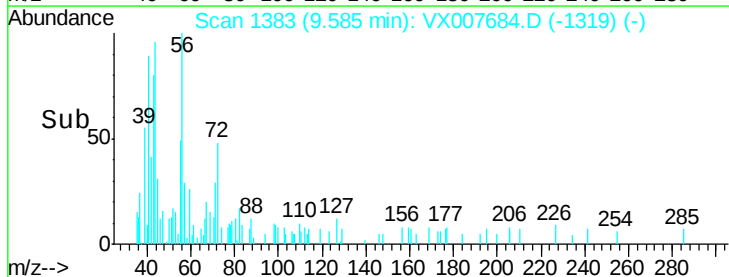
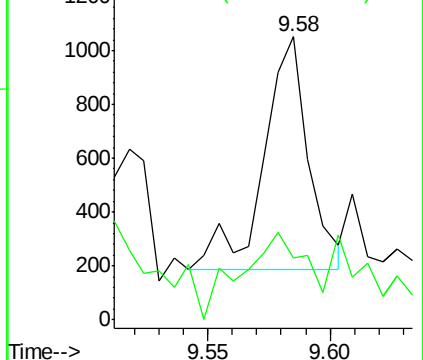
43 100

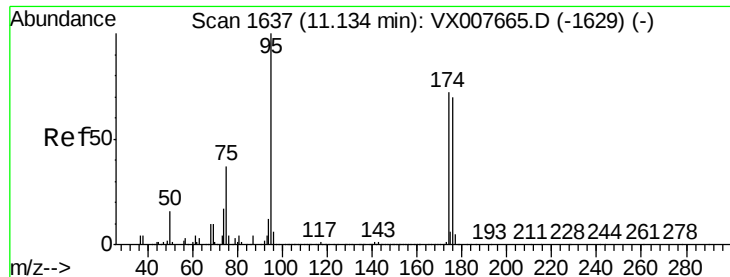
58 54.9 27.1 81.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.466 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-DUP-20190221

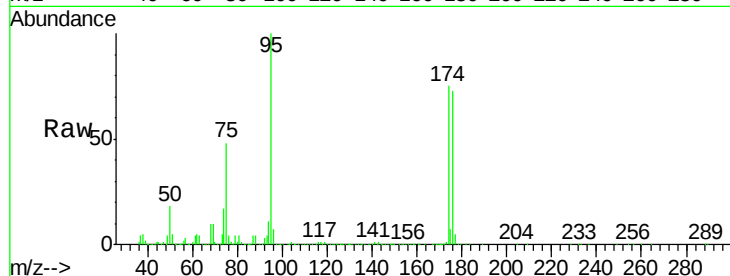
Tot Ion: 95 Resp: 256184

Ion Ratio Lower Upper

95 100

174 84.5 0.0 189.2

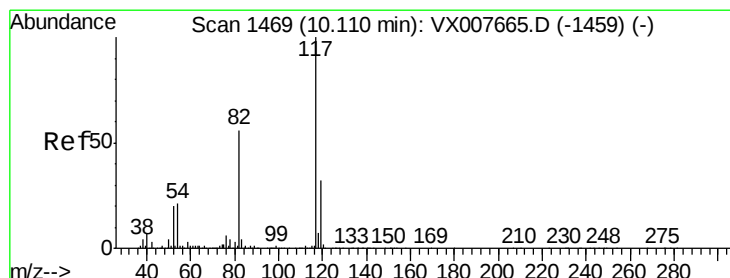
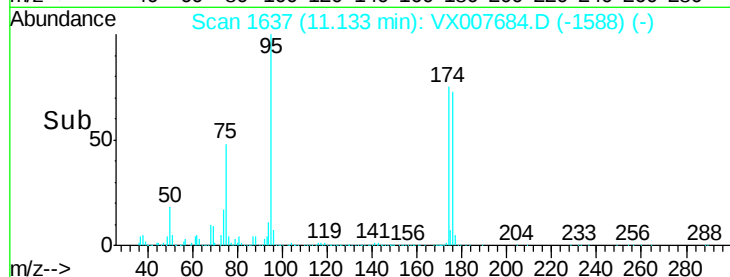
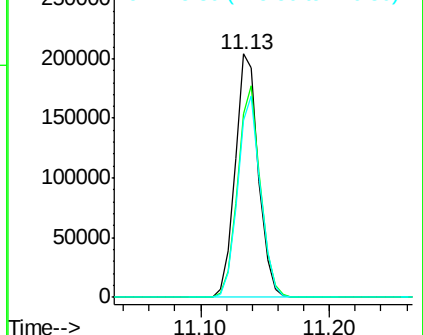
176 81.5 0.0 186.2



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: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

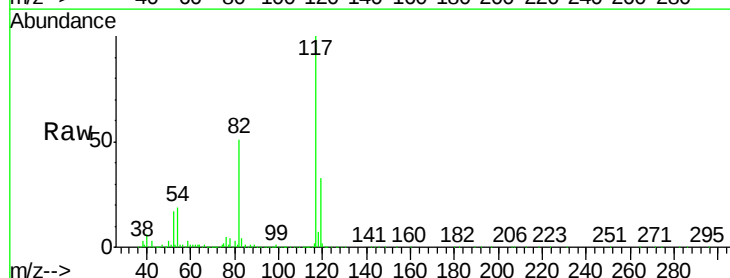
Tgt Ion: 117 Resp: 564084

Ion Ratio Lower Upper

117 100

82 50.6 42.1 63.1

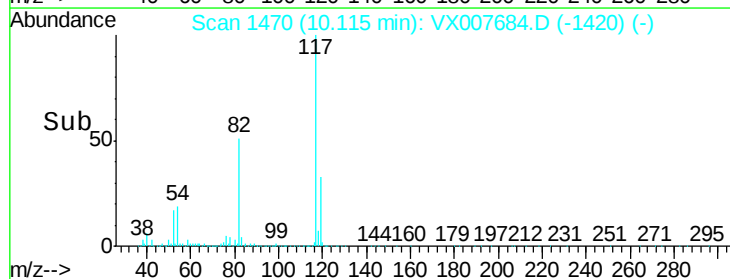
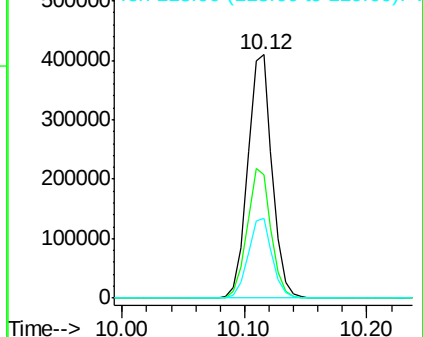
119 32.7 26.5 39.7

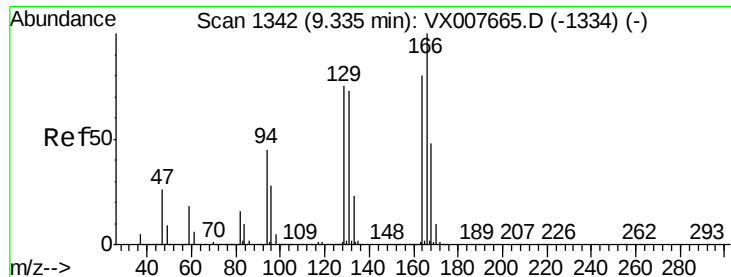


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.991 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-DUP-20190221

Tot Ion:164 Resp: 4540

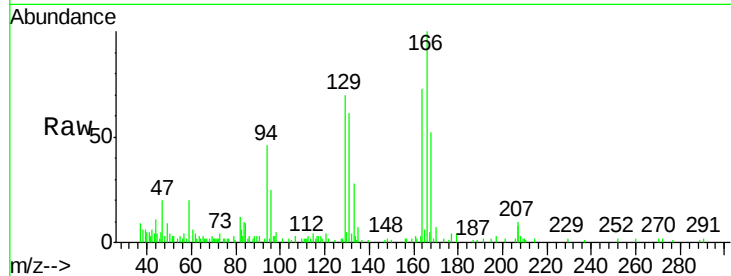
Ion Ratio Lower Upper

164 100

166 136.7 101.0 151.4

129 93.4 70.5 105.7

131 83.4 69.8 104.6

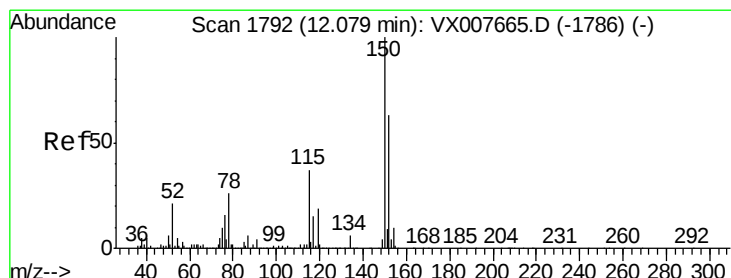
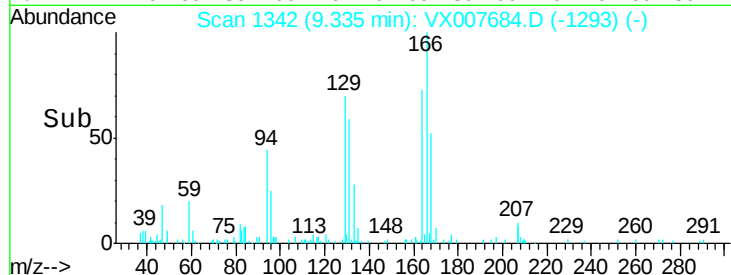
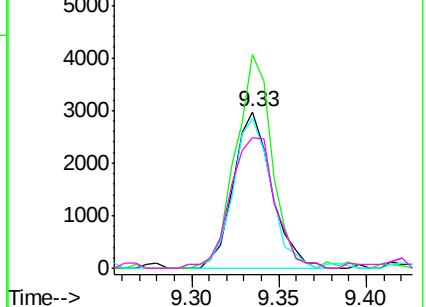


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

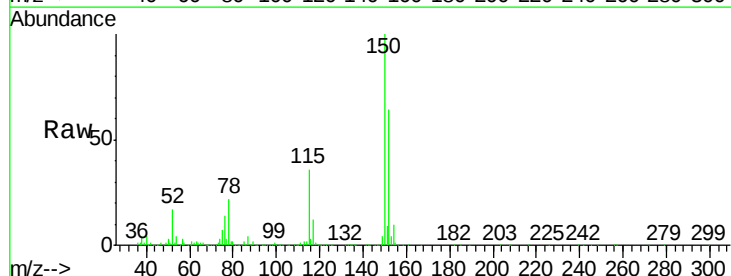
Tgt Ion:152 Resp: 258143

Ion Ratio Lower Upper

152 100

115 56.7 38.0 114.0

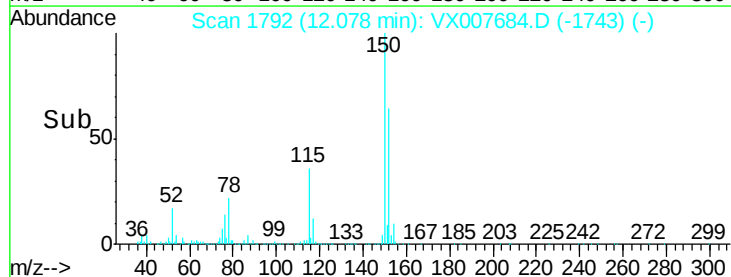
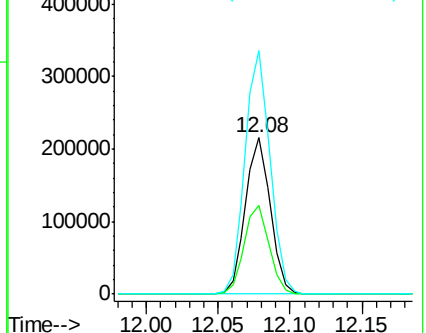
150 156.7 0.0 346.4

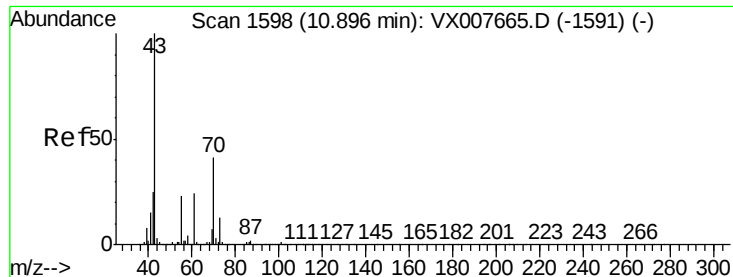


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.209 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.02 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-DUP-20190221

Tot Ion: 43 Resp: 1673

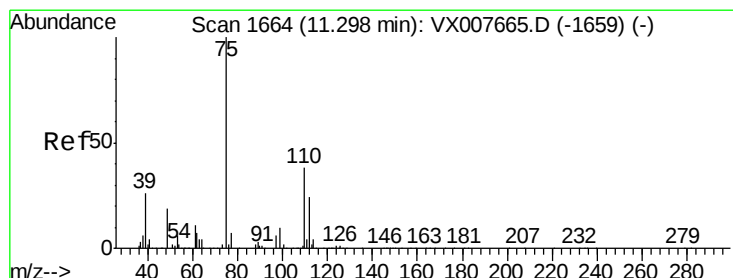
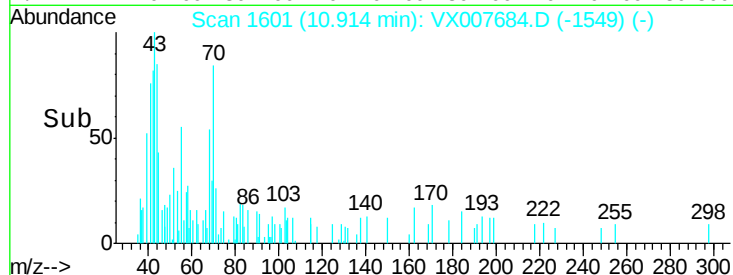
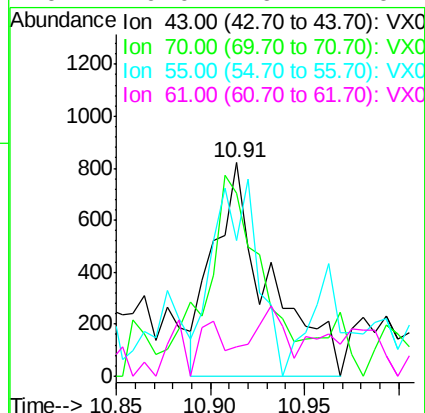
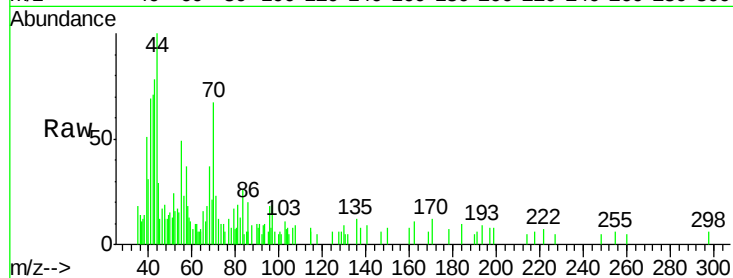
Ion Ratio Lower Upper

43 100

70 72.2 33.8 50.6#

55 73.6 19.5 29.3#

61 0.0 19.4 29.2#



#76

1,2,3-Trichloropropane

Concen: 22.277 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007684.D

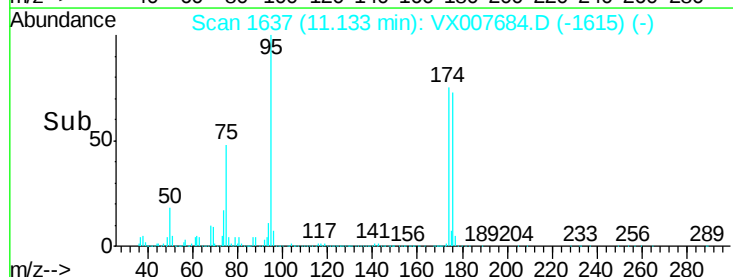
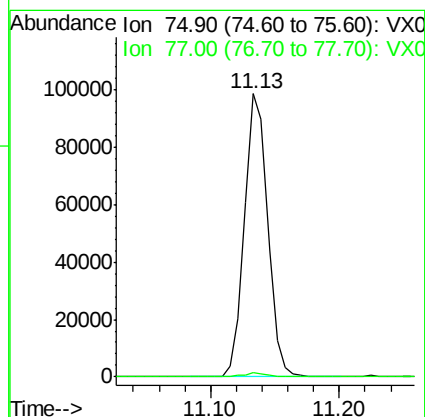
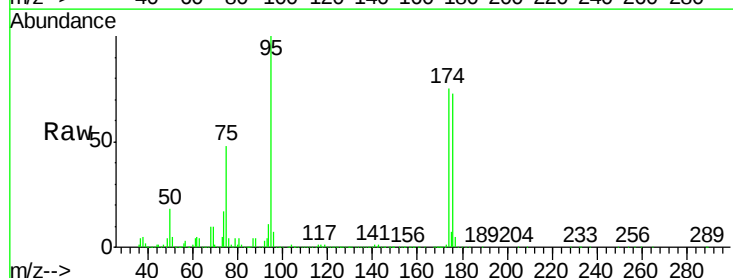
Acq: 25 Feb 2019 19:53

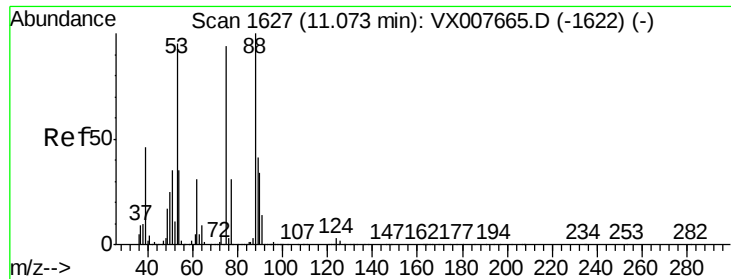
Tgt Ion: 75 Resp: 122578

Ion Ratio Lower Upper

75 100

77 1.6 23.0 69.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 59.113 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007684.D

Acq: 25 Feb 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-DUP-20190221

Tot Ion: 75 Resp: 122578

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.1 41.4 62.0#

