

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022519\
 Data File : VX007679.D
 Acq On : 25 Feb 2019 17:40
 Operator : JC/SP
 Sample : K1578-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-260-262

Quant Time: Feb 26 02:22:49 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	5.67	168	358836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	604417	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	567355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	261316	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	218161	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
35) Dibromofluoromethane	5.51	113	195650	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
50) Toluene-d8	8.71	98	735880	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
62) 4-Bromofluorobenzene	11.13	95	256197	45.13	ug/l	0.00
Spiked Amount			Recovery	=	90.26%	

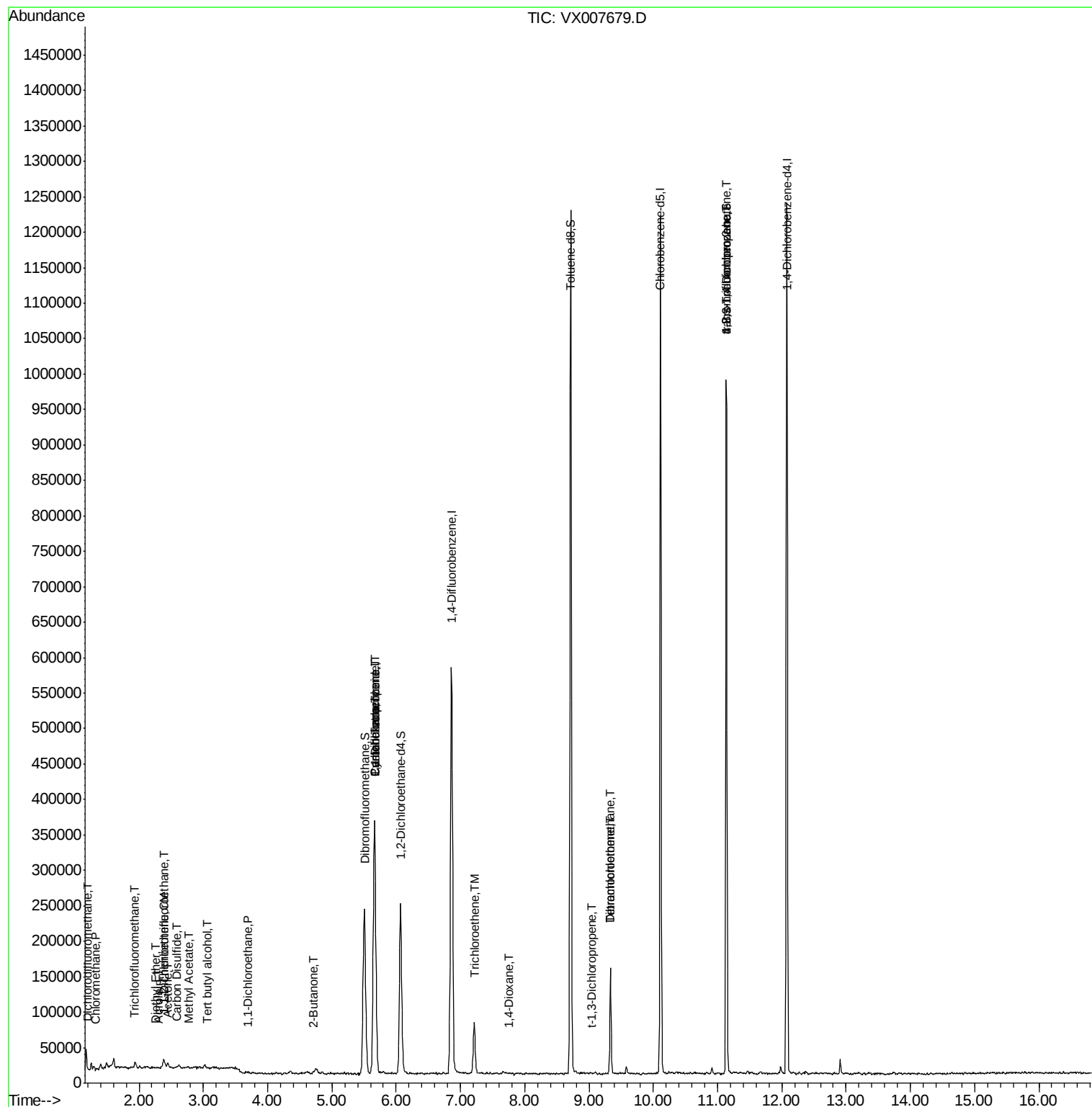
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	728	0.220	ug/l	72
3) Chloromethane	1.32	50	775	0.212	ug/l #	54
5) Bromomethane	1.65	94	486	Below Cal	#	45
7) Trichlorofluoromethane	1.94	101	5751	0.998	ug/l	90
8) Diethyl Ether	2.26	74	560	0.237	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2696	0.774	ug/l #	90
11) Tert butyl alcohol	3.07	59	191	0.226	ug/l #	1
12) 1,1-Dichloroethene	2.38	96	2709	0.863	ug/l	81
13) Acrolein	2.31	56	252	0.336	ug/l #	1
16) Acetone	2.45	43	8563	4.332	ug/l #	84
17) Carbon Disulfide	2.57	76	1897	0.217	ug/l #	44
18) Methyl Acetate	2.78	43	918	0.213	ug/l #	83
24) 1,1-Dichloroethane	3.70	63	1445	0.220	ug/l #	41
25) 2-Butanone	4.70	43	3183	1.057	ug/l #	68
31) Cyclohexane	5.66	56	6886	1.115	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	25413	4.677	ug/l #	49
38) Carbon Tetrachloride	5.67	117	34682	6.354	ug/l #	16
44) Trichloroethene	7.22	130	29903	6.480	ug/l	91
49) 1,4-Dioxane	7.76	88	461	4.383	ug/l #	30
53) t-1,3-Dichloropropene	9.04	75	264	2.841	ug/l #	43
60) Dibromochloromethane	9.34	129	26968	6.354	ug/l #	12
64) Tetrachloroethene	9.34	164	28982	6.292	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	123259	22.129	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	123259	58.739	ug/l #	9

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

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BP-VPB201-GW-260-262

Quant Time: Feb 26 02:22:49 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: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

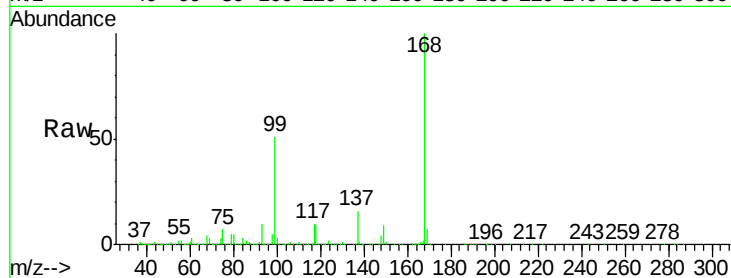
BP-VPB201-GW-260-262

Tot Ion:168 Resp: 358836

Ion Ratio Lower Upper

168 100

99 51.4 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

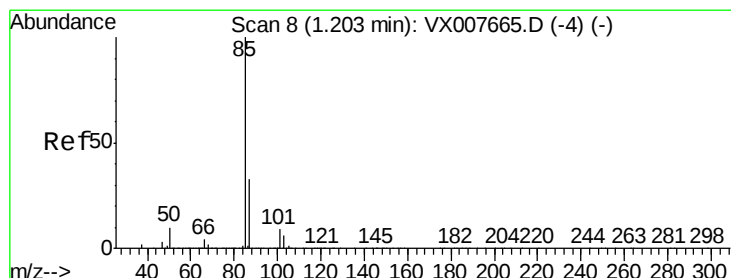
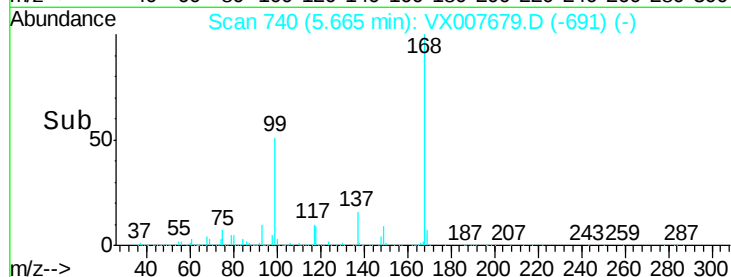
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.220 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.01 min

Lab File: VX007679.D

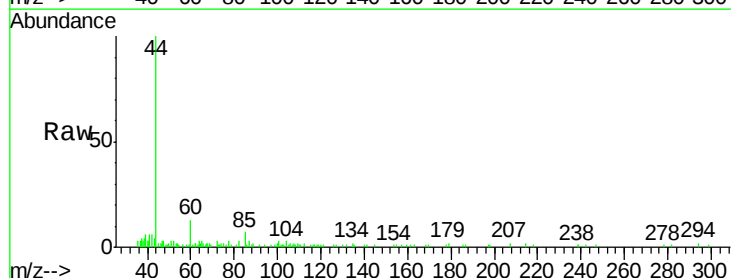
Acq: 25 Feb 2019 17:40

Tgt Ion: 85 Resp: 728

Ion Ratio Lower Upper

85 100

87 47.0 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

500

400

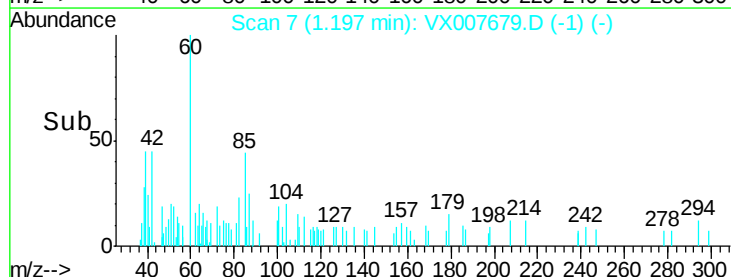
300

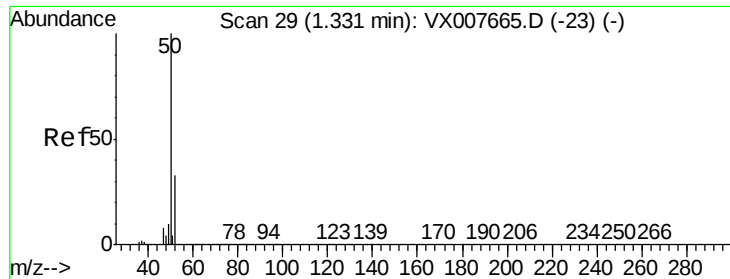
200

100

0

Time-->





#3

Chloromethane

Concen: 0.212 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

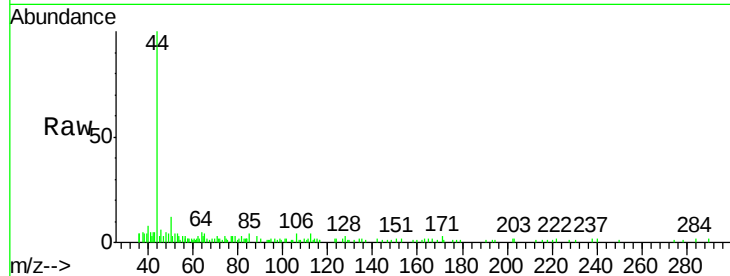
BP-VPB201-GW-260-262

Tot Ion: 50 Resp: 775

Ion Ratio Lower Upper

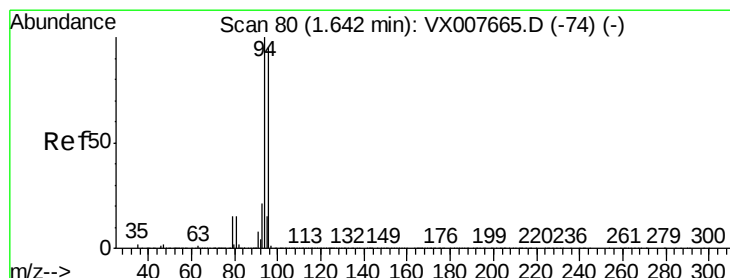
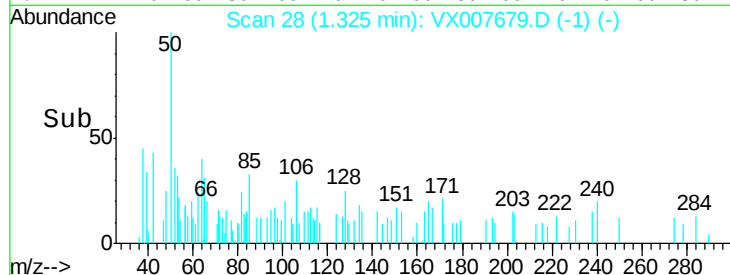
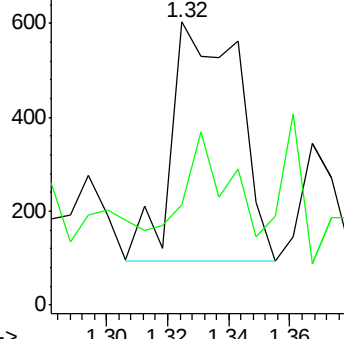
50 100

52 6.7 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007679.D

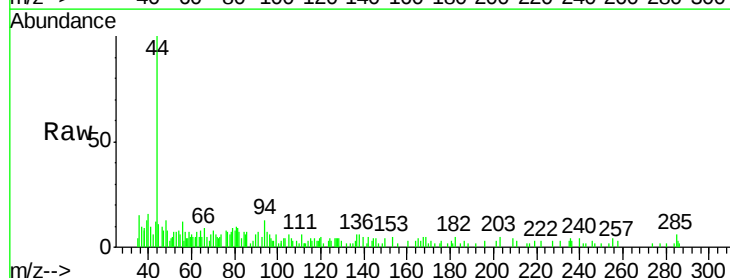
Acq: 25 Feb 2019 17:40

Tgt Ion: 94 Resp: 486

Ion Ratio Lower Upper

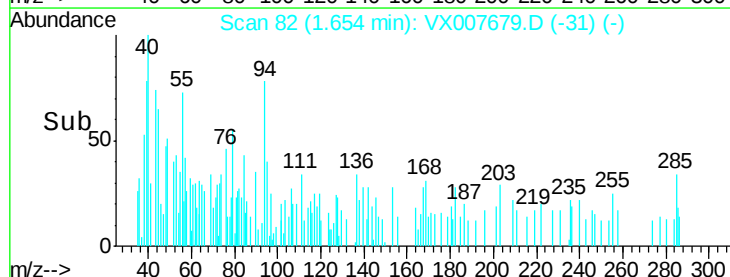
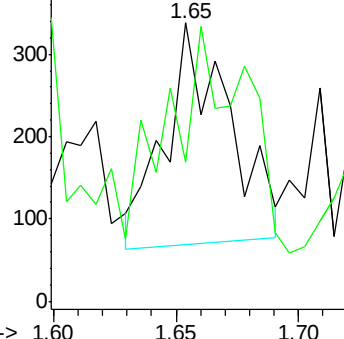
94 100

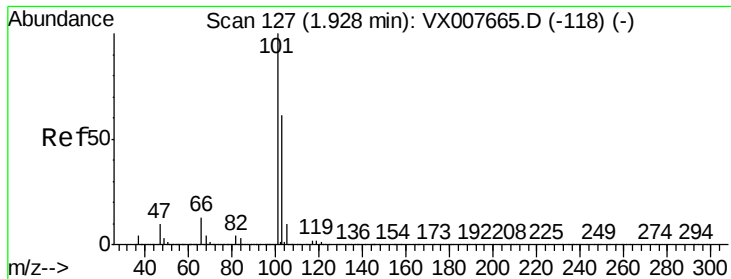
96 40.3 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



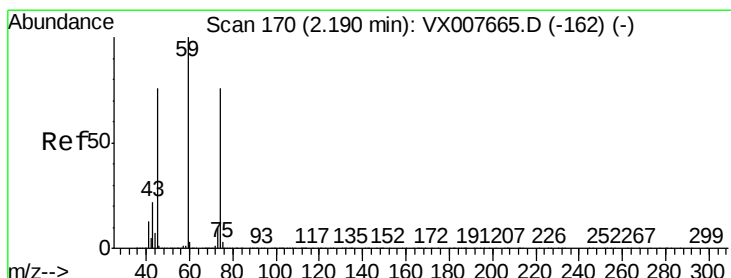
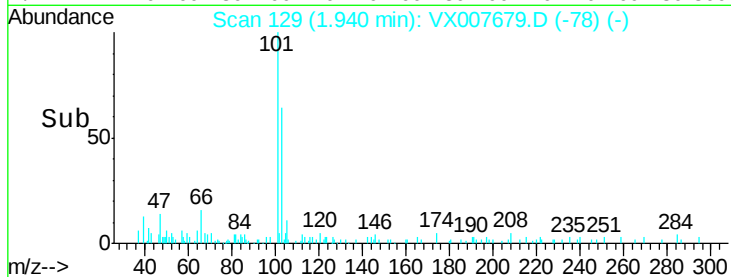
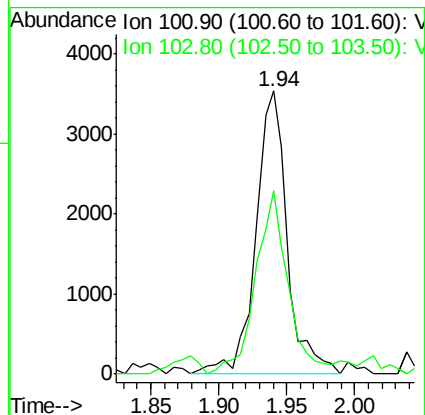
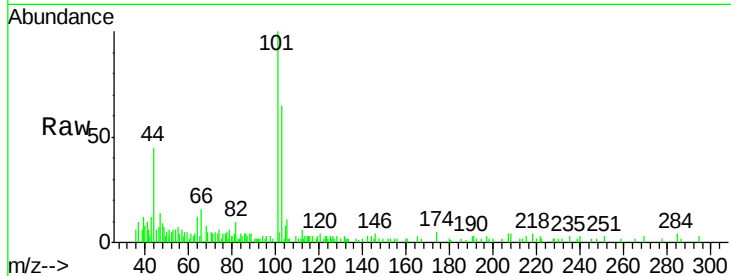


#7

Trichlorofluoromethane
Concen: 0.998 ug/l
RT: 1.94 min Scan# 129
Delta R.T. 0.01 min
Lab File: VX007679.D
Acq: 25 Feb 2019 17:40

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-260-262

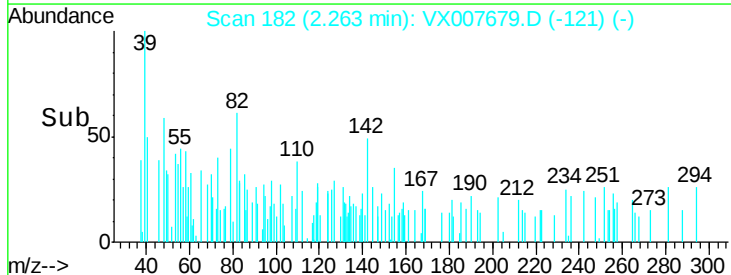
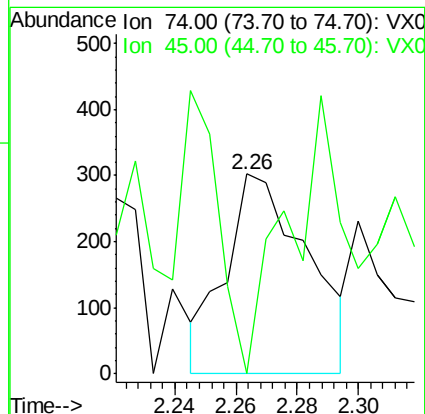
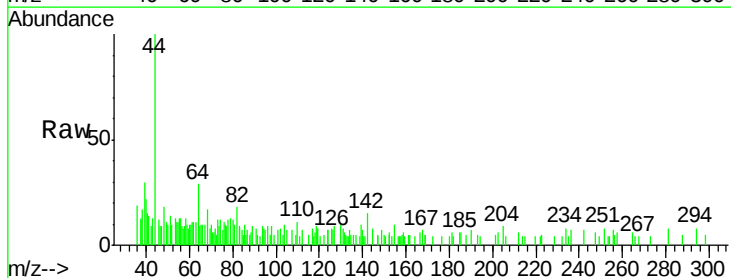
Tot Ion:101 Resp: 5751
Ion Ratio Lower Upper
101 100
103 58.0 52.6 79.0

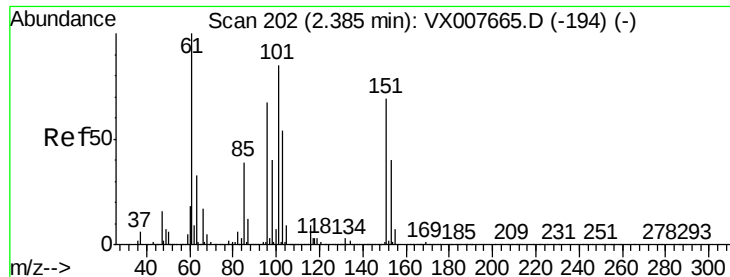


#8

Diethyl Ether
Concen: 0.237 ug/l
RT: 2.26 min Scan# 182
Delta R.T. 0.07 min
Lab File: VX007679.D
Acq: 25 Feb 2019 17:40

Tgt Ion: 74 Resp: 560
Ion Ratio Lower Upper
74 100
45 60.4 45.7 137.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.774 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-260-262

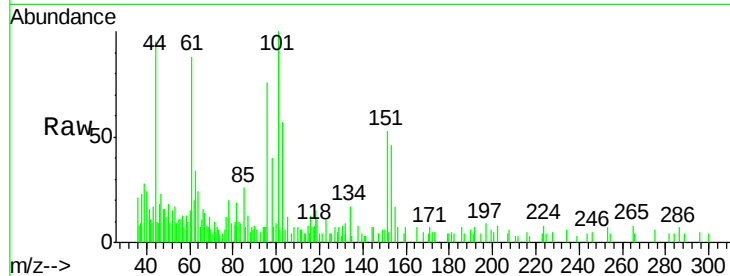
Tot Ion:101 Resp: 2696

Ion Ratio Lower Upper

101 100

85 55.9 34.1 51.1#

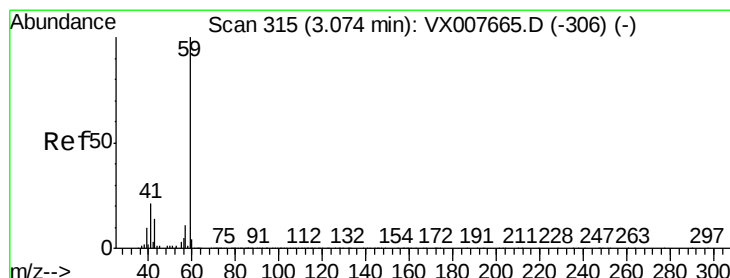
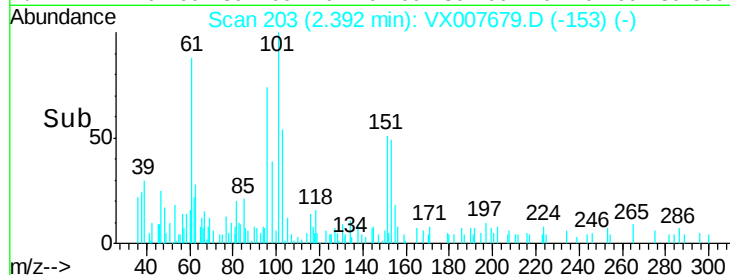
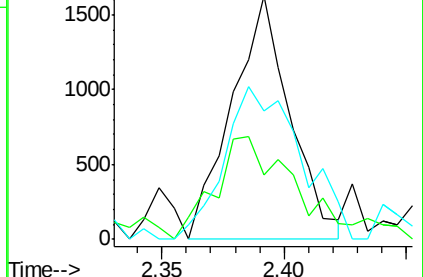
151 82.4 69.9 104.9



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: 0.226 ug/l

RT: 3.07 min Scan# 315

Delta R.T. 0.00 min

Lab File: VX007679.D

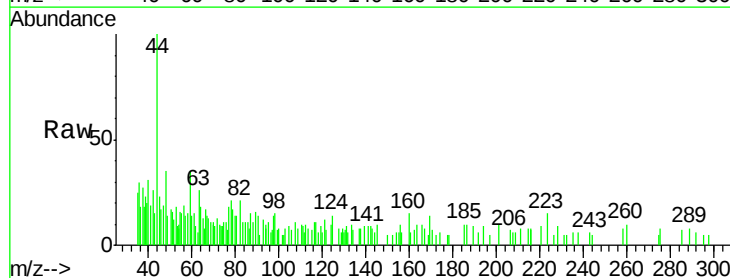
Acq: 25 Feb 2019 17:40

Tgt Ion: 59 Resp: 191

Ion Ratio Lower Upper

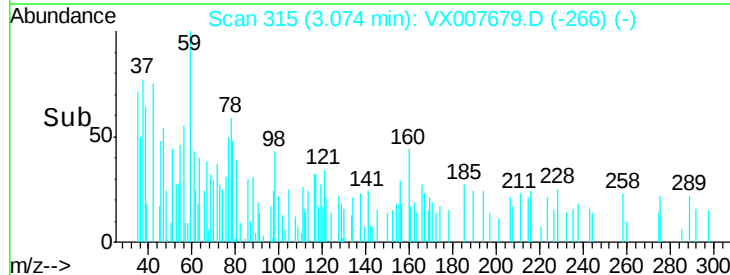
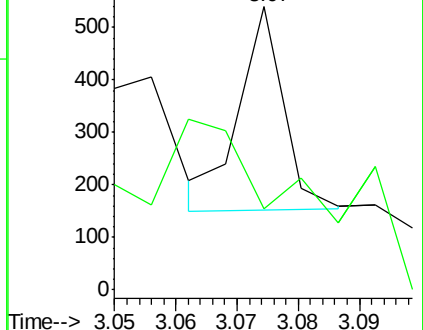
59 100

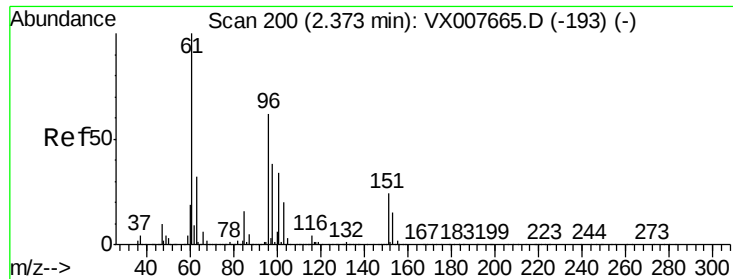
57 414.1 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.863 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

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ClientSampleId :

BP-VPB201-GW-260-262

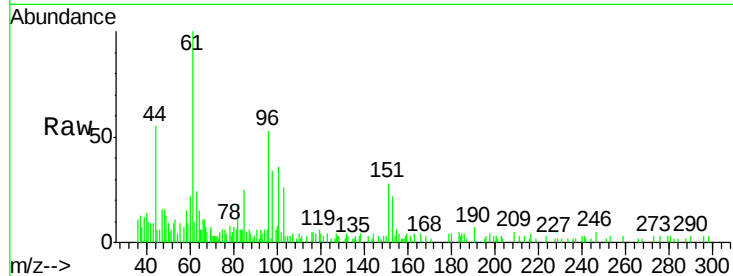
Tot Ion: 96 Resp: 2709

Ion Ratio Lower Upper

96 100

61 179.4 123.0 184.4

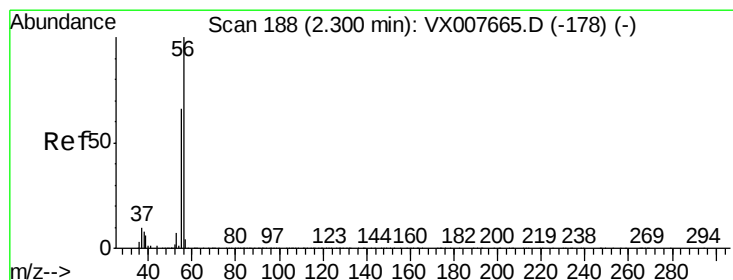
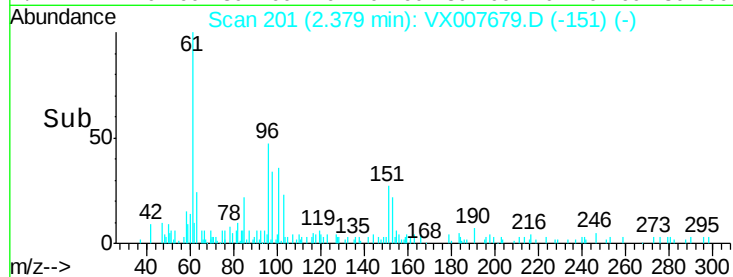
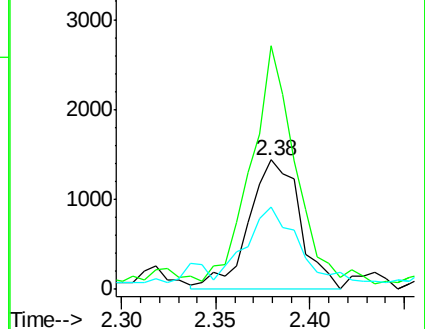
98 51.1 50.9 76.3



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



#13

Acrolein

Concen: 0.336 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007679.D

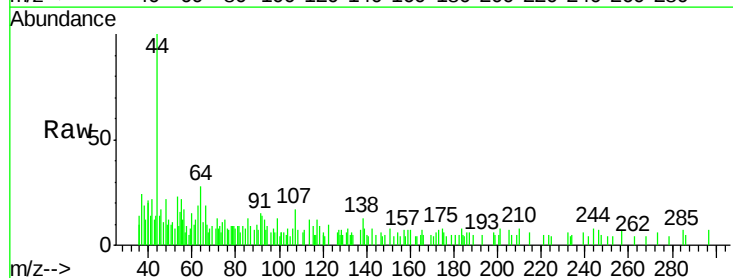
Acq: 25 Feb 2019 17:40

Tgt Ion: 56 Resp: 252

Ion Ratio Lower Upper

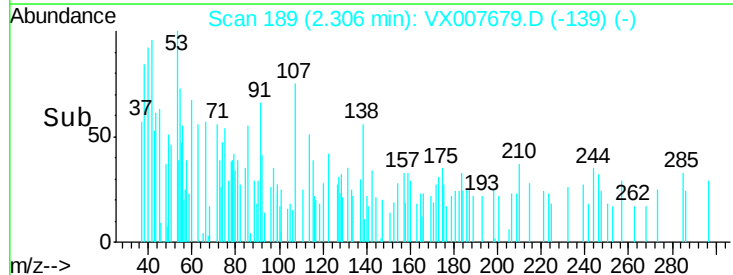
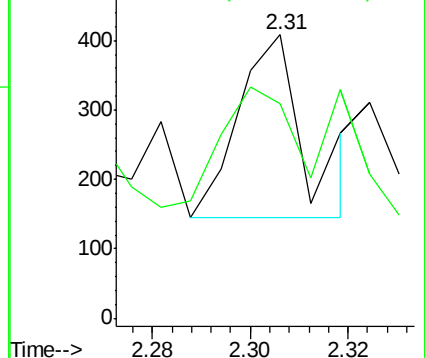
56 100

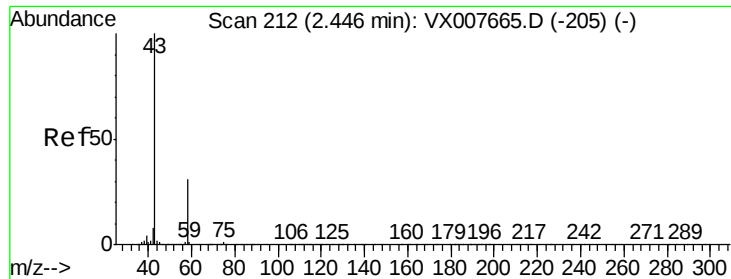
55 197.6 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.332 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

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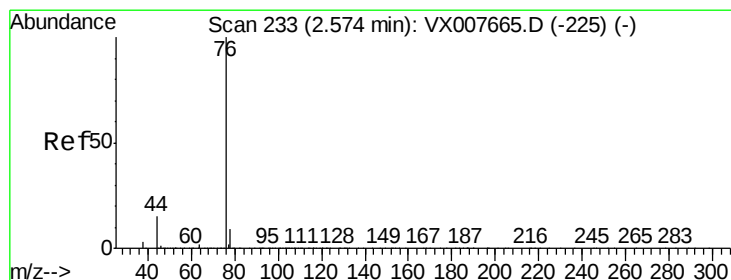
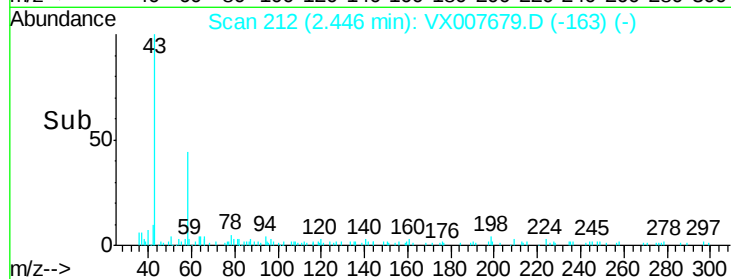
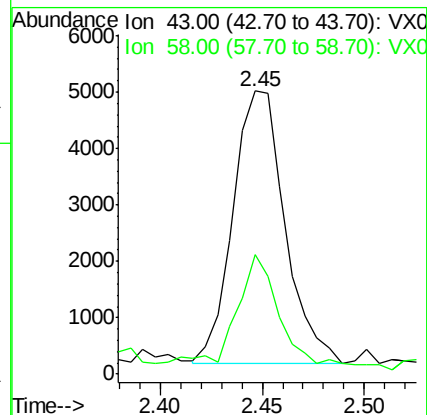
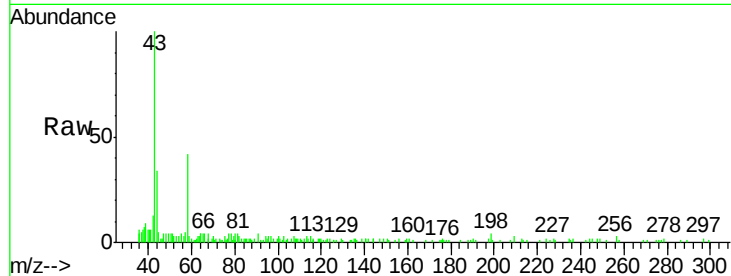
BP-VPB201-GW-260-262

Tot Ion: 43 Resp: 8563

Ion Ratio Lower Upper

43 100

58 39.9 24.9 37.3#



#17

Carbon Disulfide

Concen: 0.217 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007679.D

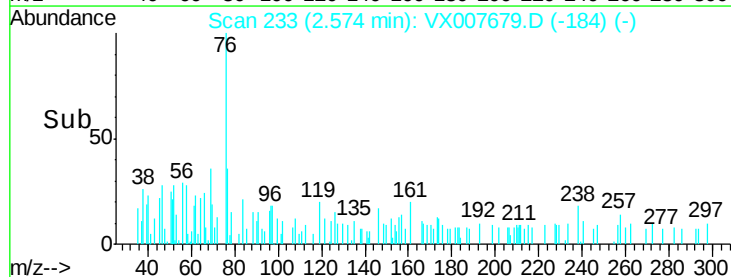
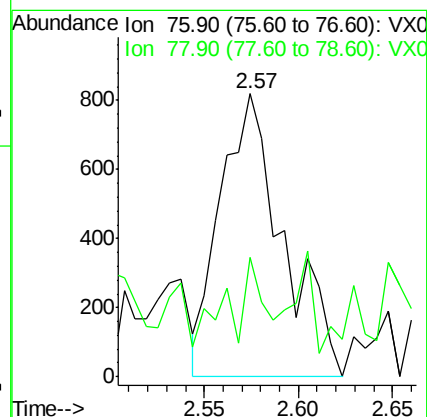
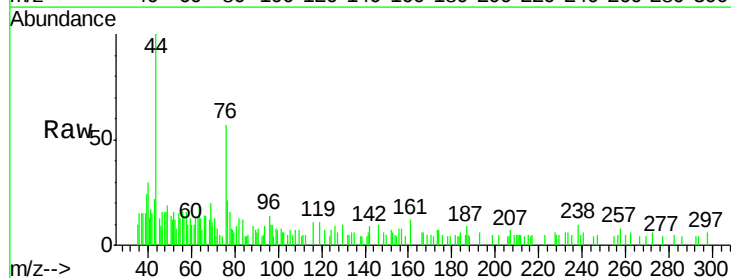
Acq: 25 Feb 2019 17:40

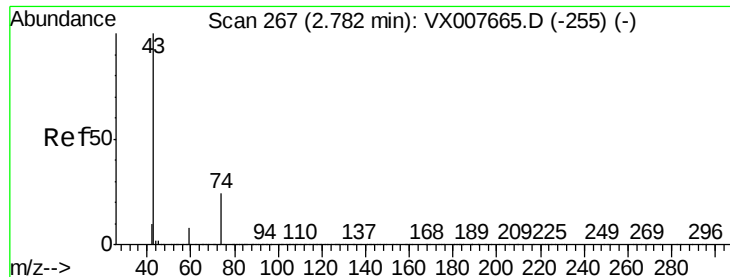
Tgt Ion: 76 Resp: 1897

Ion Ratio Lower Upper

76 100

78 28.9 7.1 10.7#

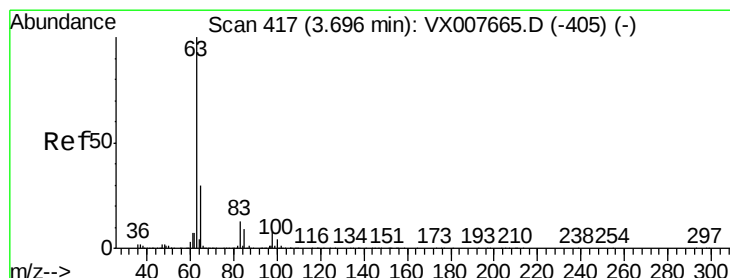
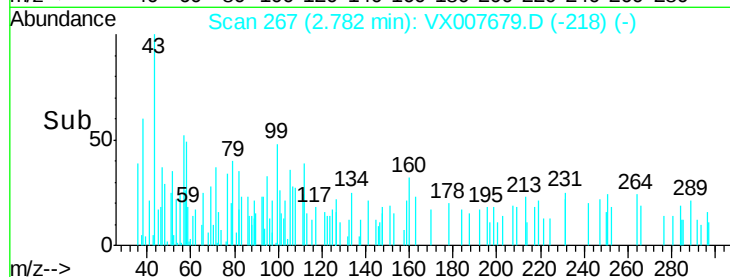
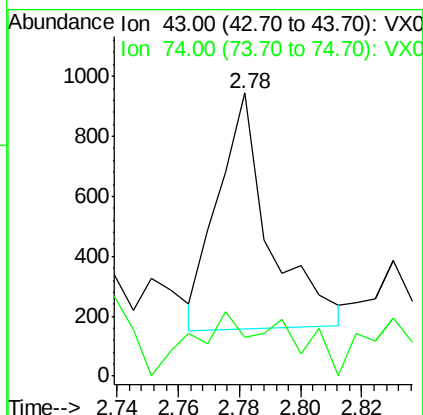
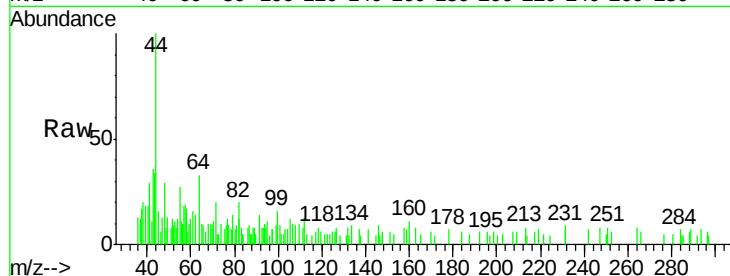




#18
Methyl Acetate
Concen: 0.213 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007679.D
Acq: 25 Feb 2019 17:40

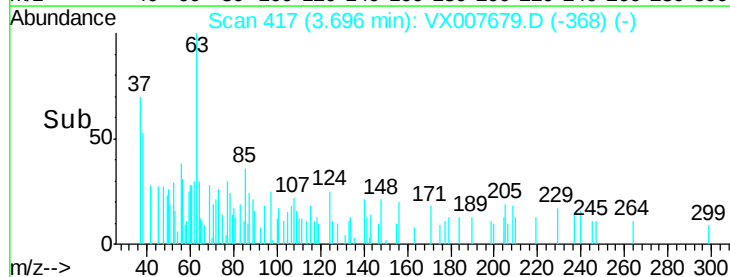
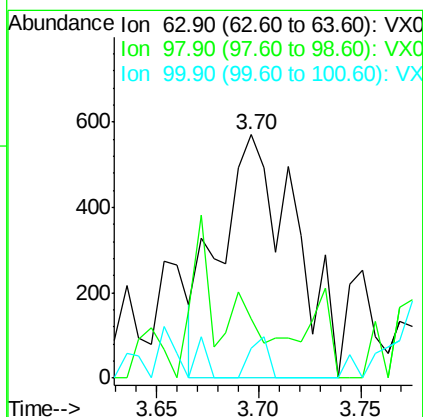
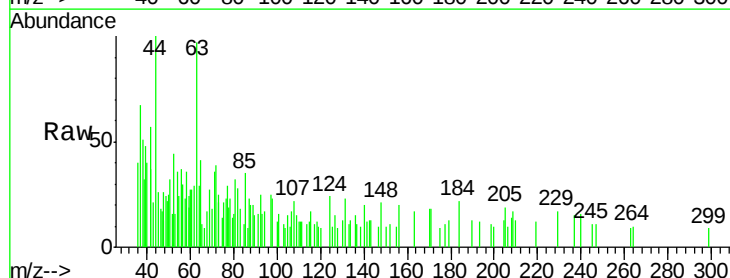
Instrument :
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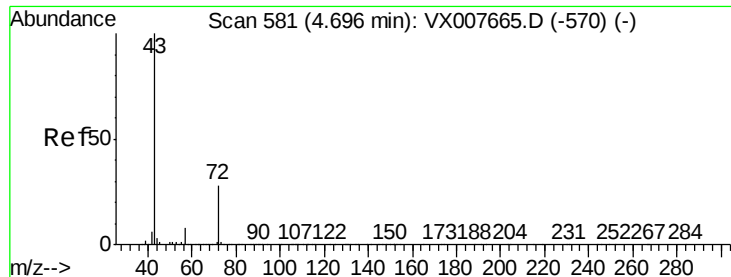
Tot Ion: 43 Resp: 918
Ion Ratio Lower Upper
43 100
74 32.6 19.4 29.2#



#24
1,1-Dichloroethane
Concen: 0.220 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX007679.D
Acq: 25 Feb 2019 17:40

Tgt Ion: 63 Resp: 1445
Ion Ratio Lower Upper
63 100
98 24.2 3.6 10.8#
100 29.4 2.5 7.4#





#25

2-Butanone

Concen: 1.057 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

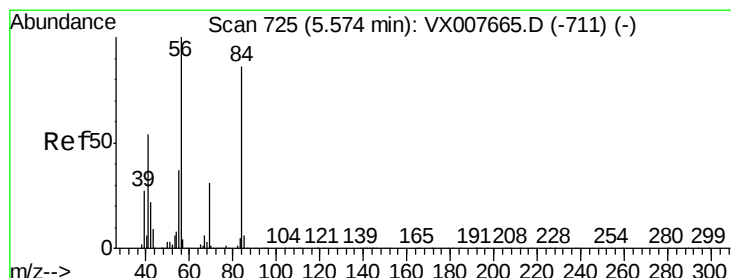
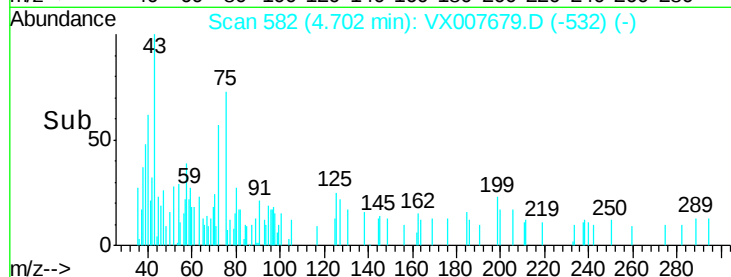
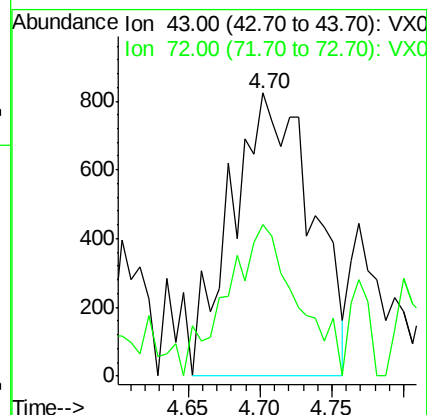
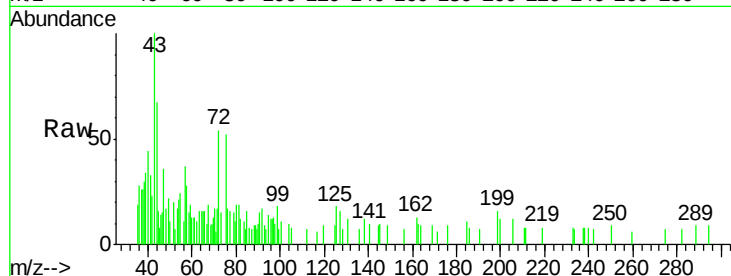
BP-VPB201-GW-260-262

Tot Ion: 43 Resp: 3183

Ion Ratio Lower Upper

43 100

72 44.2 22.2 33.2#



#31

Cyclohexane

Concen: 1.115 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

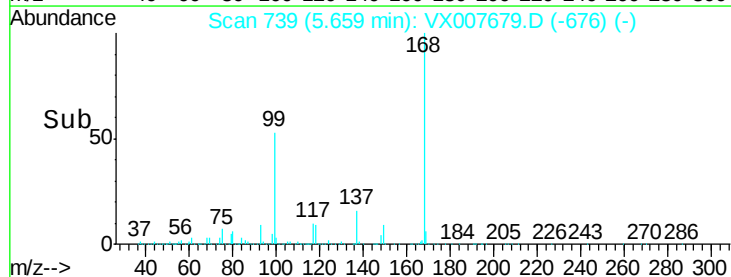
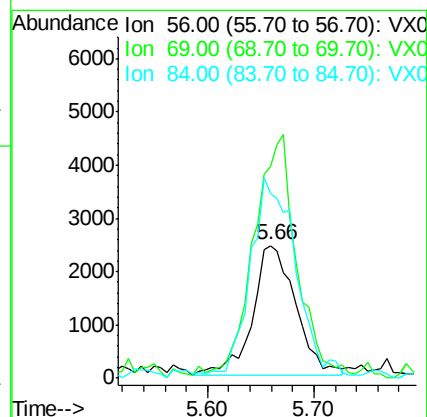
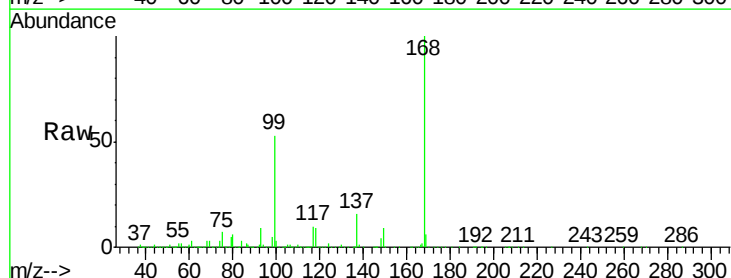
Tgt Ion: 56 Resp: 6886

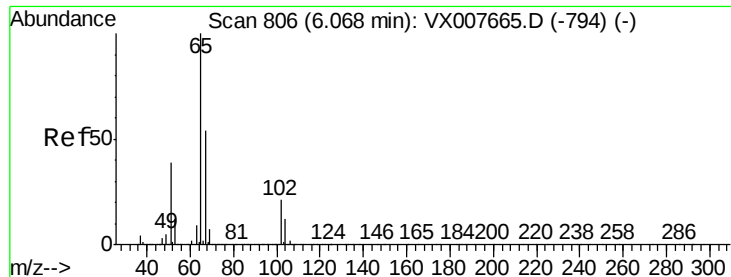
Ion Ratio Lower Upper

56 100

69 165.8 23.0 34.6#

84 146.0 69.8 104.6#





#33

1,2-Dichloroethane-d4

Concen: 49.082 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

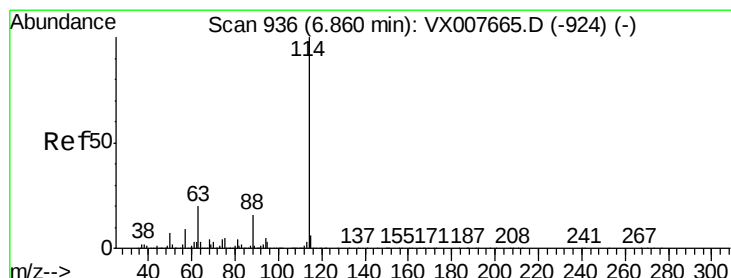
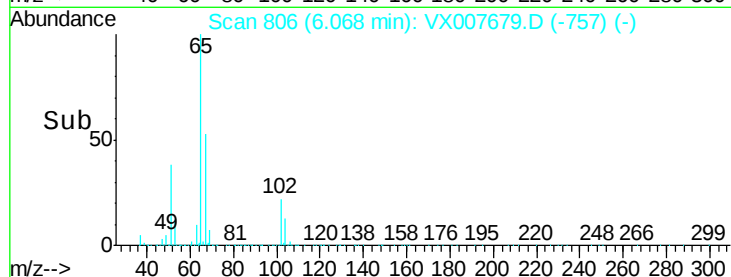
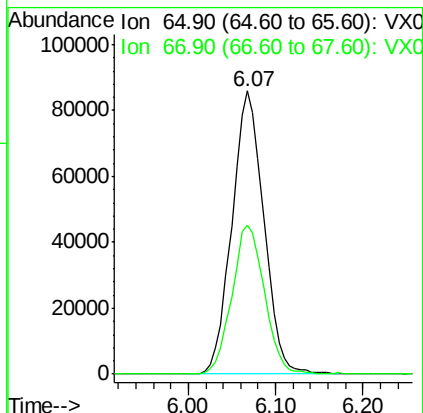
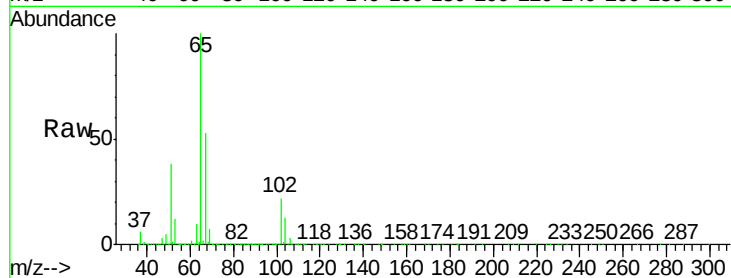
BP-VPB201-GW-260-262

Tot Ion: 65 Resp: 218161

Ion Ratio Lower Upper

65 100

67 52.9 0.0 108.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

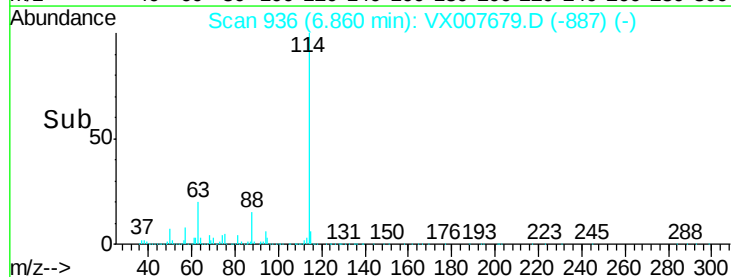
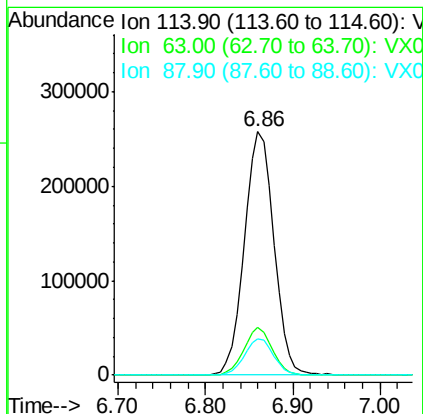
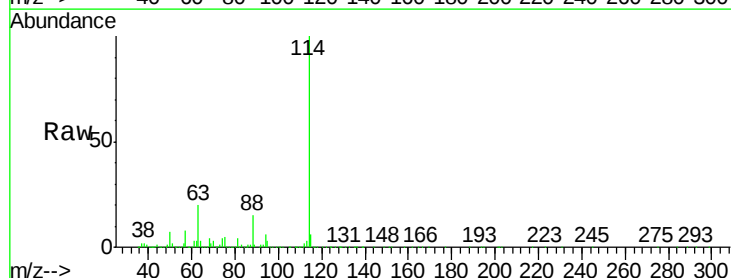
Tgt Ion: 114 Resp: 604417

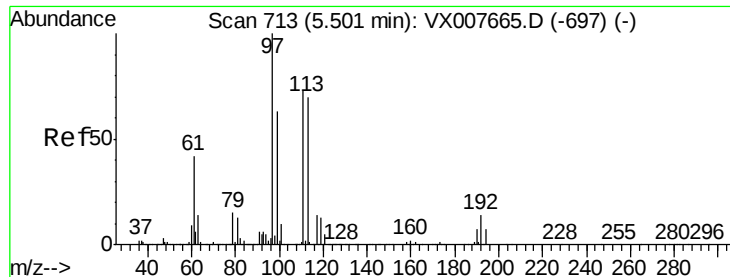
Ion Ratio Lower Upper

114 100

63 19.8 0.0 35.6

88 14.8 0.0 29.6





#35

Dibromofluoromethane

Concen: 48.424 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-260-262

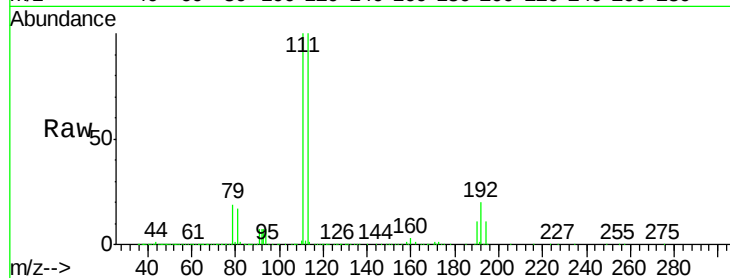
Tot Ion:113 Resp: 195650

Ion Ratio Lower Upper

113 100

111 103.7 81.8 122.8

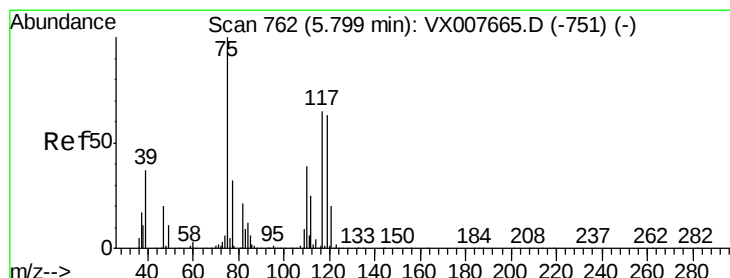
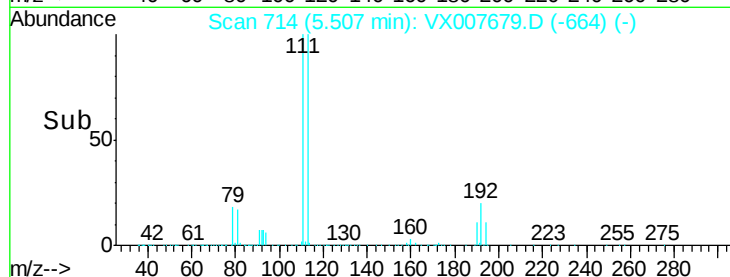
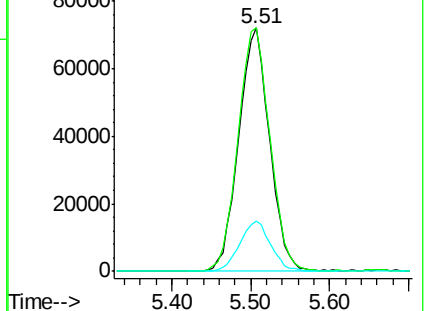
192 20.7 18.5 27.7



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: 4.677 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

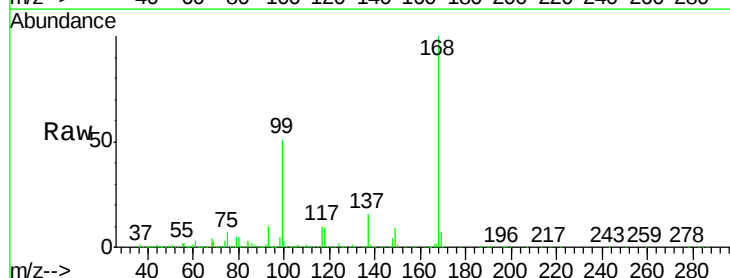
Tgt Ion: 75 Resp: 25413

Ion Ratio Lower Upper

75 100

110 9.9 20.0 59.9#

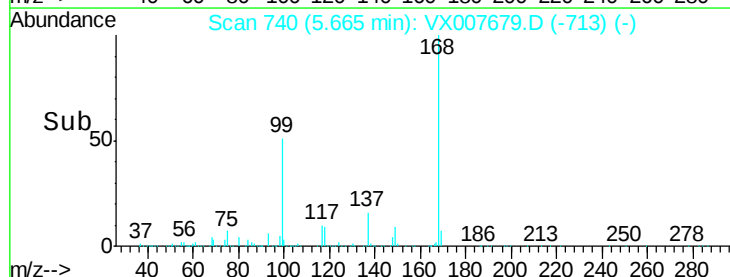
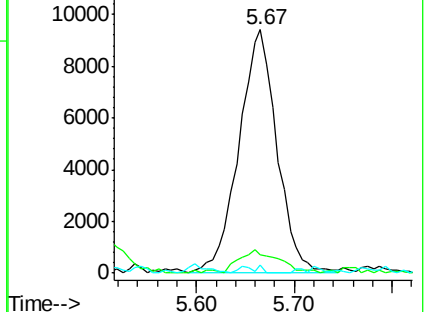
77 1.4 24.7 37.1#

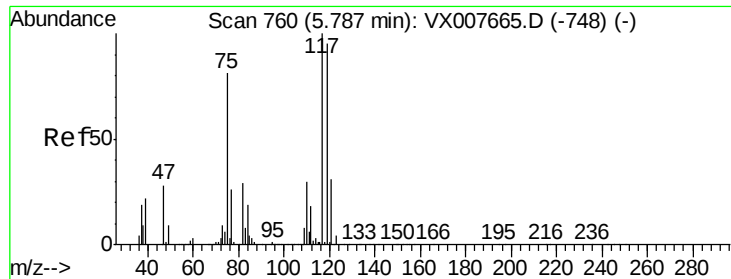


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.354 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-260-262

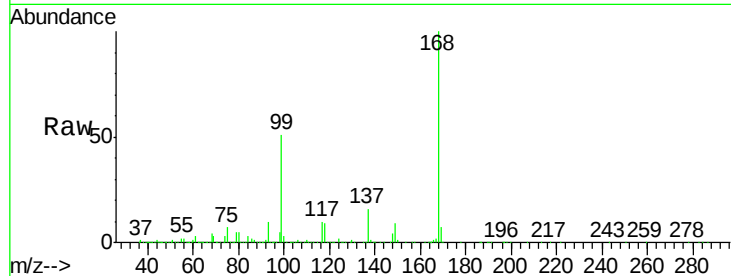
Tot Ion:117 Resp: 34682

Ion Ratio Lower Upper

117 100

119 3.2 75.3 112.9#

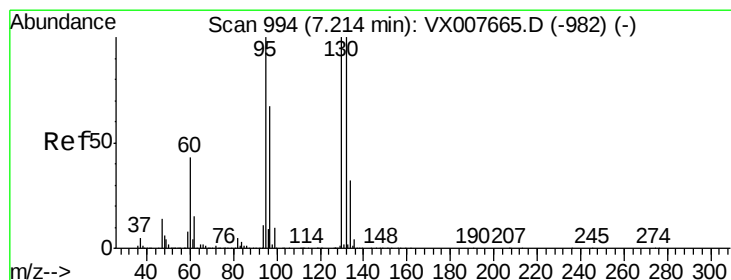
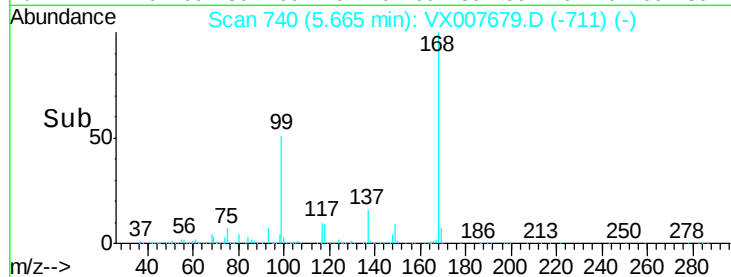
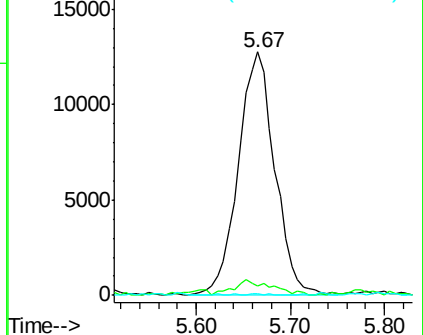
121 0.7 25.0 37.4#



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: 6.480 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX007679.D

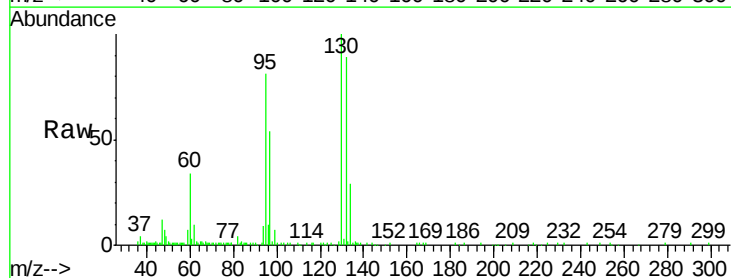
Acq: 25 Feb 2019 17:40

Tgt Ion:130 Resp: 29903

Ion Ratio Lower Upper

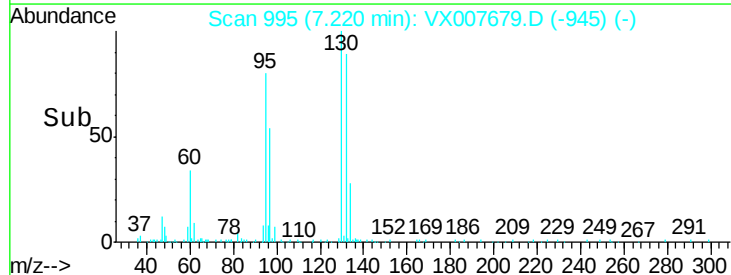
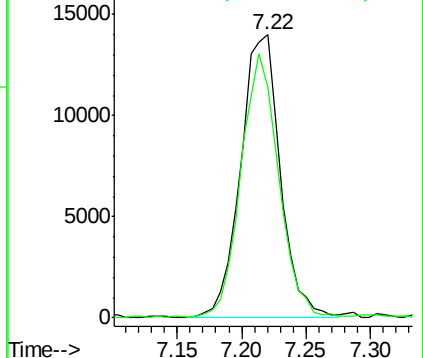
130 100

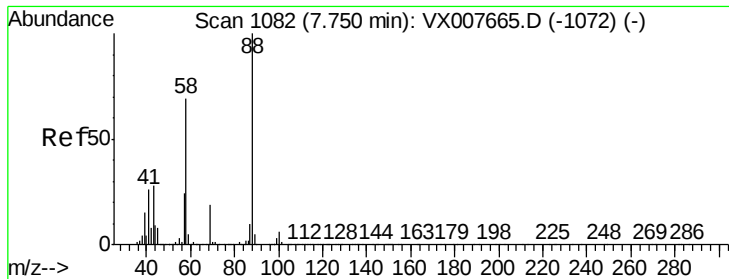
95 81.4 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

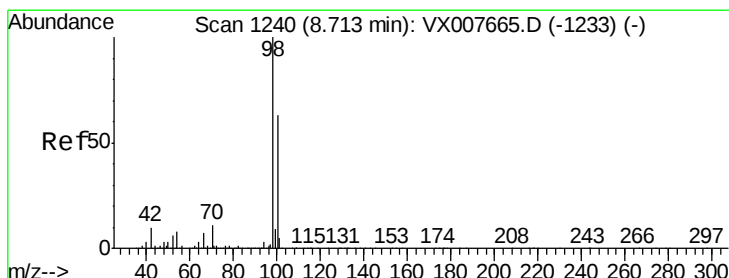
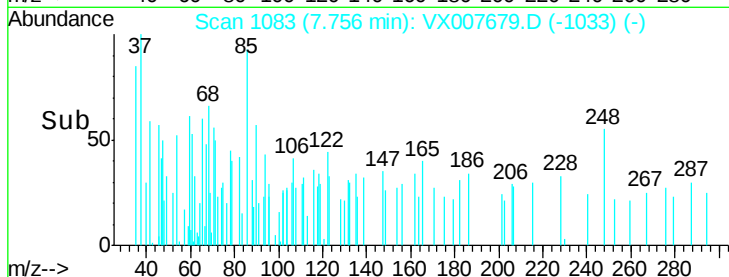
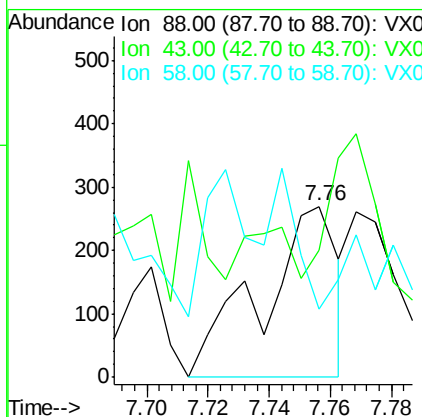
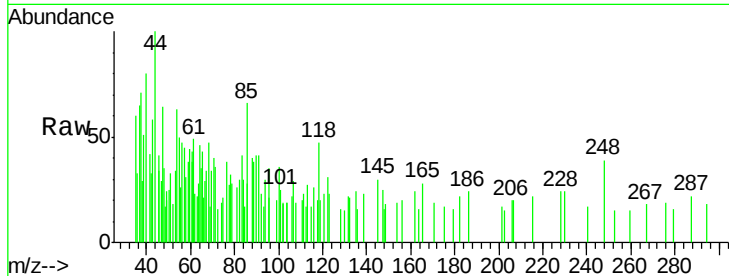




#49
1,4-Dioxane
Concen: 4.383 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007679.D
Acq: 25 Feb 2019 17:40

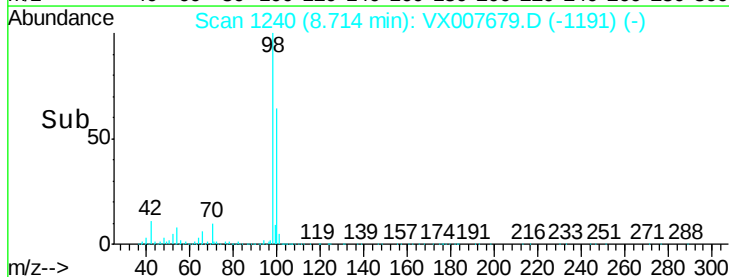
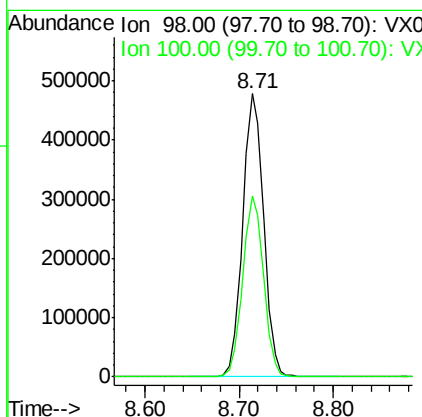
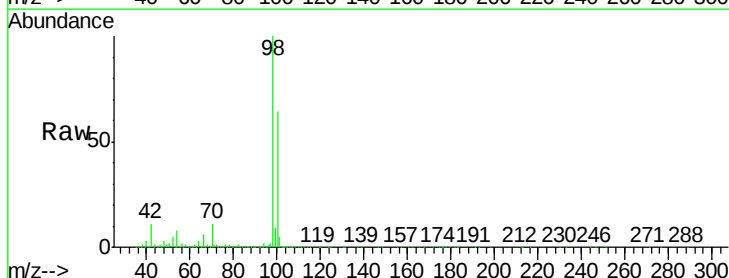
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-260-262

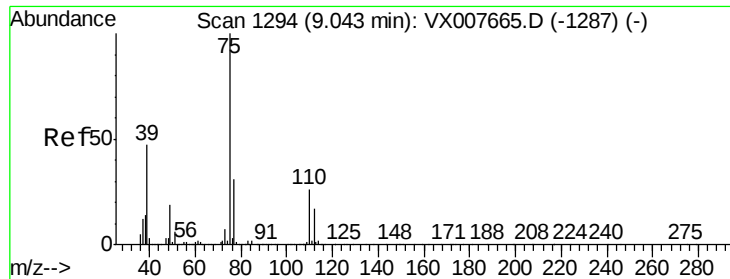
Tot Ion: 88 Resp: 461
Ion Ratio Lower Upper
88 100
43 139.5 24.2 36.4#
58 57.9 53.0 79.4



#50
Toluene-d8
Concen: 47.574 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007679.D
Acq: 25 Feb 2019 17:40

Tgt Ion: 98 Resp: 735880
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4





#53

t-1,3-Dichloropropene

Concen: 2.841 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

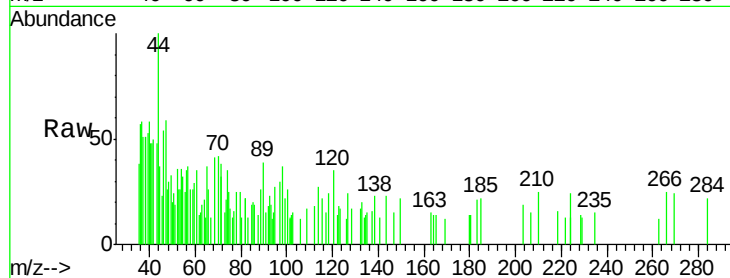
BP-VPB201-GW-260-262

Tot Ion: 75 Resp: 264

Ion Ratio Lower Upper

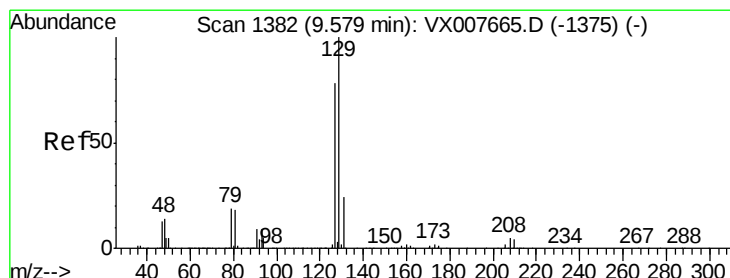
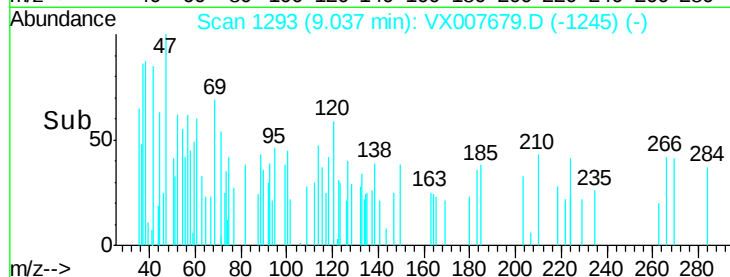
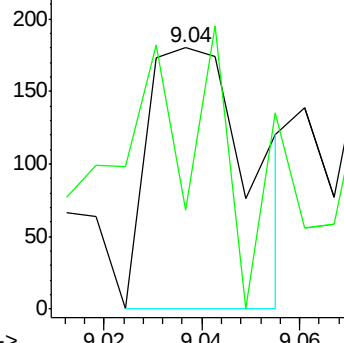
75 100

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



#60

Dibromochloromethane

Concen: 6.354 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007679.D

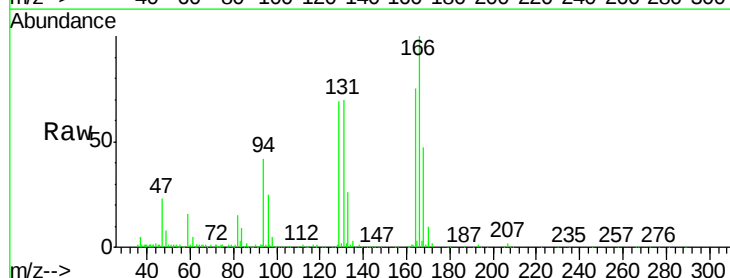
Acq: 25 Feb 2019 17:40

Tgt Ion:129 Resp: 26968

Ion Ratio Lower Upper

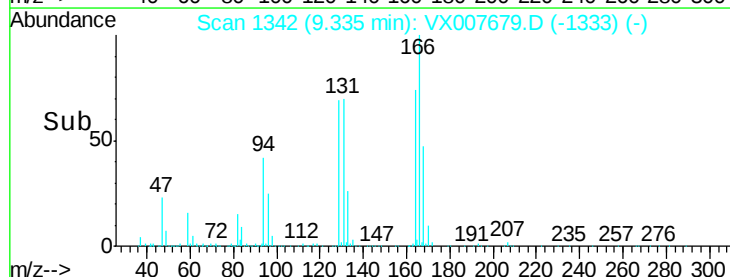
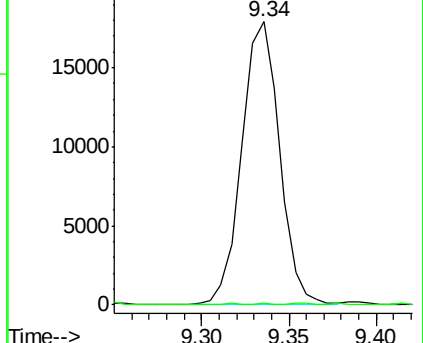
129 100

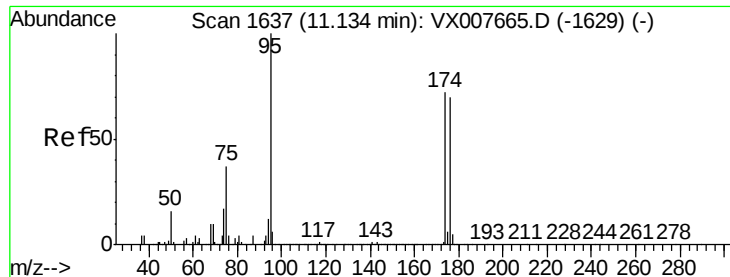
127 0.5 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.127 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-260-262

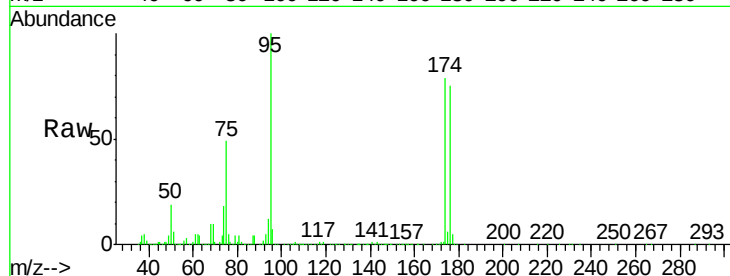
Tot Ion: 95 Resp: 256197

Ion Ratio Lower Upper

95 100

174 85.5 0.0 189.2

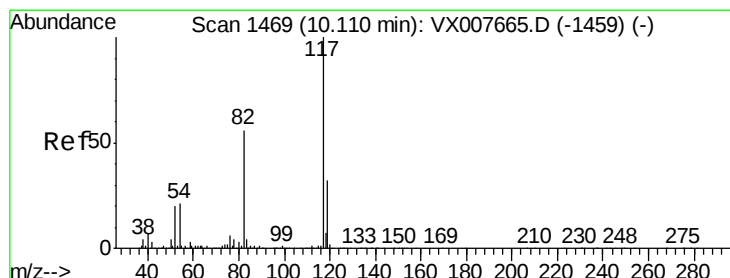
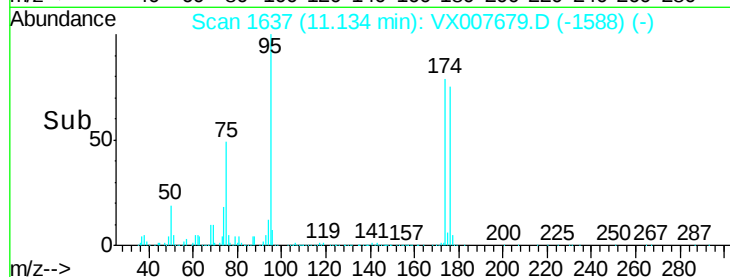
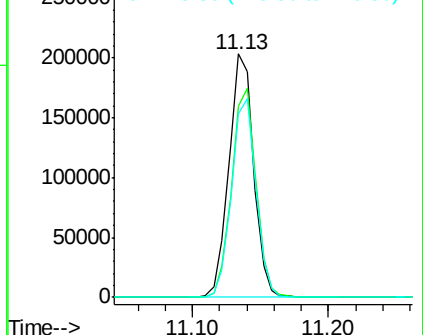
176 81.3 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007665.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX007665.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX007665.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

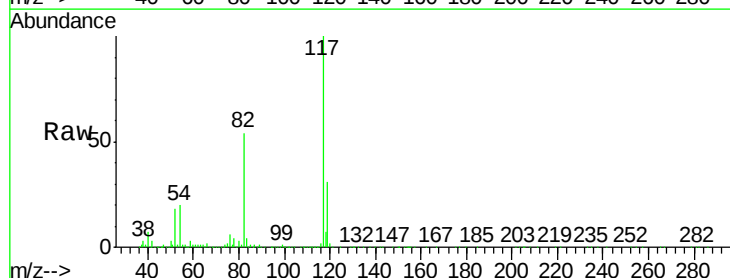
Tgt Ion: 117 Resp: 567355

Ion Ratio Lower Upper

117 100

82 53.8 42.1 63.1

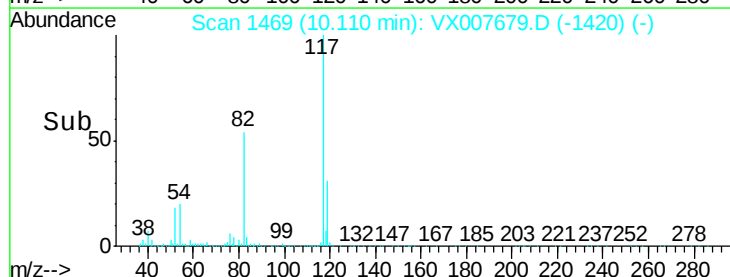
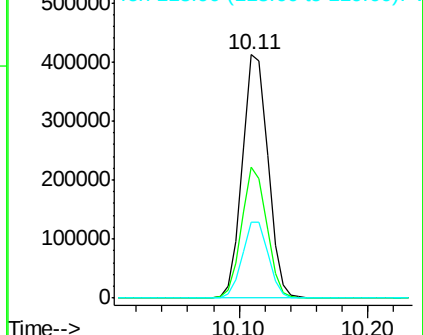
119 31.2 26.5 39.7

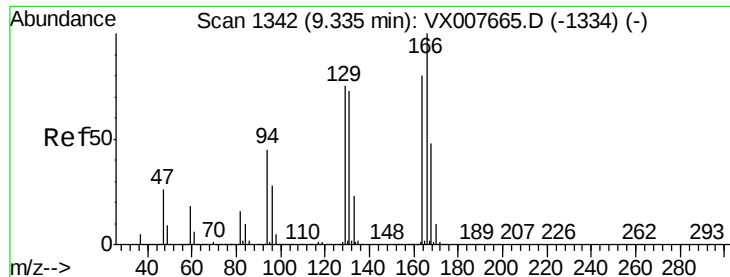


Abundance Ion 116.90 (116.60 to 117.60): VX007665.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007665.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007665.D (-1459) (-)





#64

Tetrachloroethene

Concen: 6.292 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007679.D

Acq: 25 Feb 2019 17:40

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-260-262

Tot Ion:164 Resp: 28982

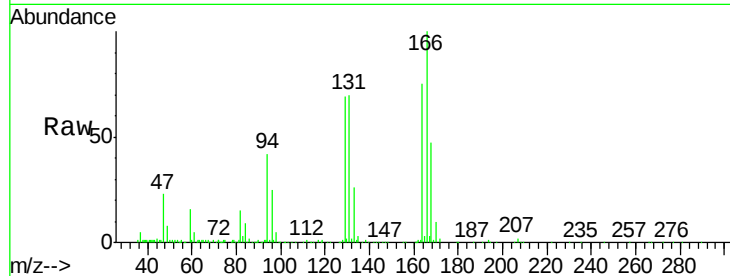
Ion Ratio Lower Upper

164 100

166 134.0 101.0 151.4

129 92.5 70.5 105.7

131 93.8 69.8 104.6

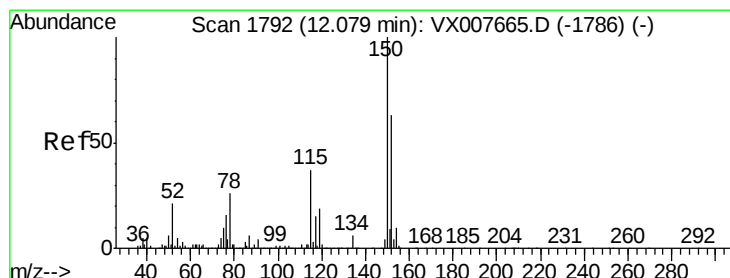
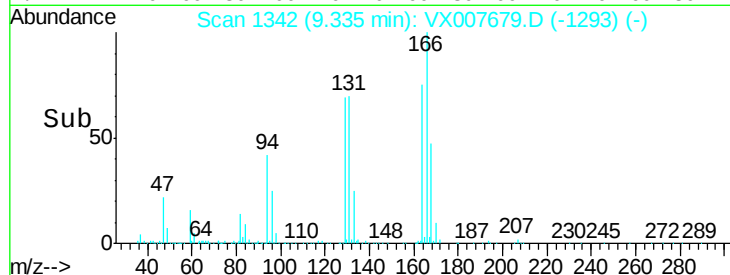
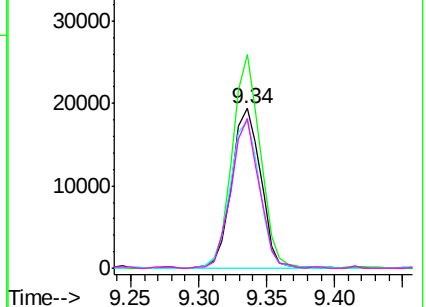


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX007679.D

Acq: 25 Feb 2019 17:40

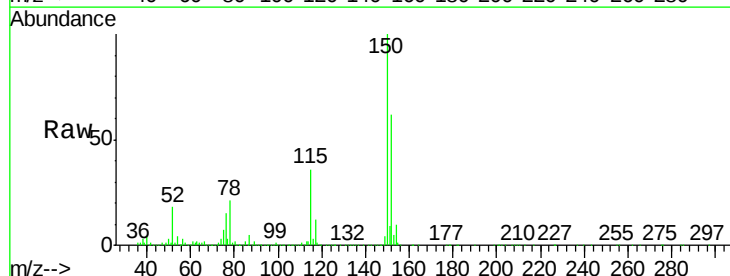
Tgt Ion:152 Resp: 261316

Ion Ratio Lower Upper

152 100

115 57.2 38.0 114.0

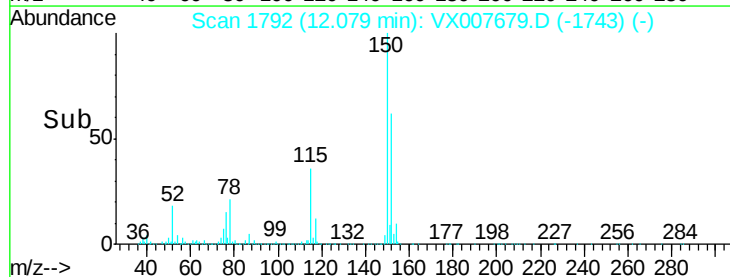
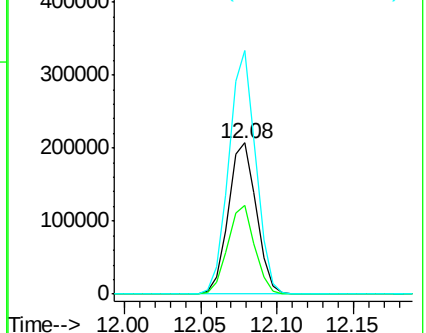
150 156.3 0.0 346.4

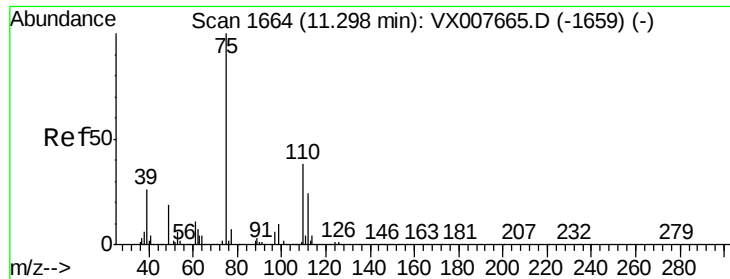


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

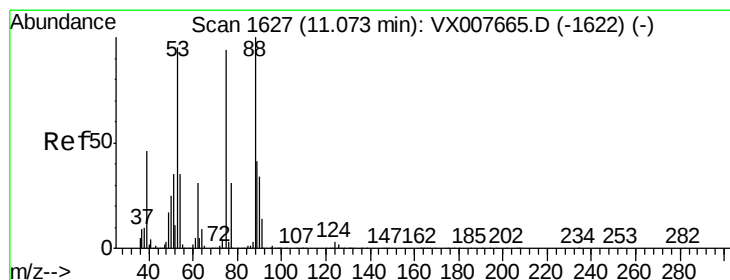
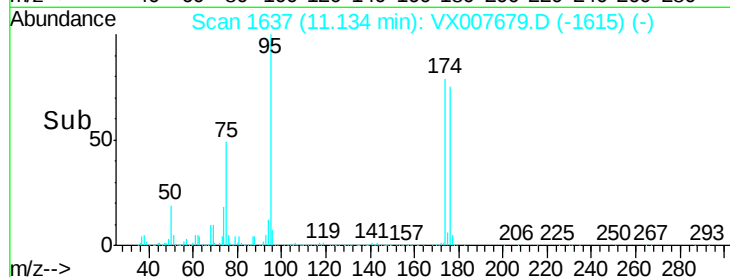
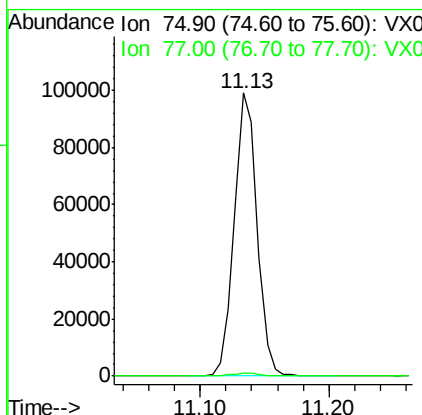
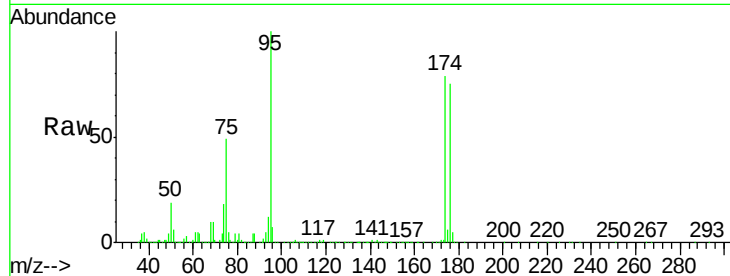




#76
 1,2,3-Trichloropropane
 Concen: 22.129 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007679.D
 Acq: 25 Feb 2019 17:40

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-260-262

Tot Ion: 75 Resp: 123259
 Ion Ratio Lower Upper
 75 100
 77 1.8 23.0 69.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.739 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007679.D
 Acq: 25 Feb 2019 17:40

Tgt Ion: 75 Resp: 123259
 Ion Ratio Lower Upper
 75 100
 53 0.3 81.0 121.6#
 89 0.0 41.4 62.0#

