

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022519\
 Data File : VX007677.D
 Acq On : 25 Feb 2019 16:47
 Operator : JC/SP
 Sample : K1578-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-220-222

Quant Time: Feb 26 02:22:09 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	353614	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	595016	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	557898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	254197	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	211519	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
35) Dibromofluoromethane	5.51	113	195367	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
50) Toluene-d8	8.71	98	717788	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
62) 4-Bromofluorobenzene	11.13	95	252755	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	

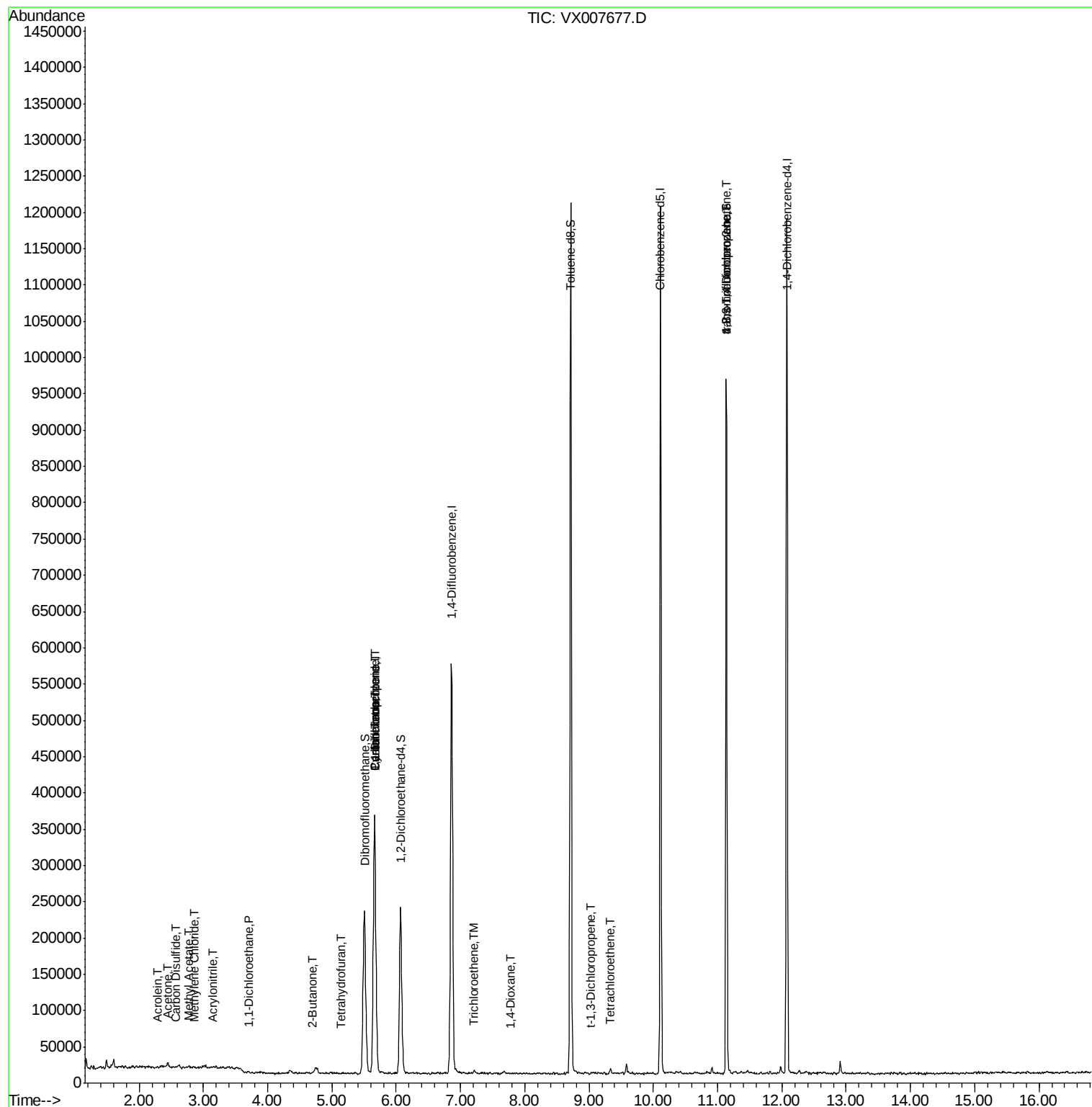
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	385	Below Cal	#	1
13) Acrolein	2.29	56	266	0.360	ug/l #	1
15) Acrylonitrile	3.15	53	601	0.307	ug/l #	32
16) Acetone	2.45	43	8777	4.506	ug/l	95
17) Carbon Disulfide	2.57	76	2000	0.232	ug/l #	94
18) Methyl Acetate	2.78	43	912	0.215	ug/l #	1
20) Methylene Chloride	2.86	84	1183	0.329	ug/l #	49
24) 1,1-Dichloroethane	3.70	63	2458	0.380	ug/l #	81
25) 2-Butanone	4.69	43	826	0.278	ug/l #	66
29) Tetrahydrofuran	5.15	42	445	0.228	ug/l #	57
31) Cyclohexane	5.67	56	6957	1.143	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	26021	4.864	ug/l #	48
38) Carbon Tetrachloride	5.67	117	31942	5.944	ug/l #	17
44) Trichloroethene	7.21	130	1986	0.437	ug/l	80
49) 1,4-Dioxane	7.77	88	139	1.342	ug/l #	1
53) t-1,3-Dichloropropene	9.04	75	147	2.824	ug/l #	82
64) Tetrachloroethene	9.34	164	1065	0.235	ug/l #	88
76) 1,2,3-Trichloropropane	11.13	75	121115	22.353	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	121115	59.304	ug/l #	9

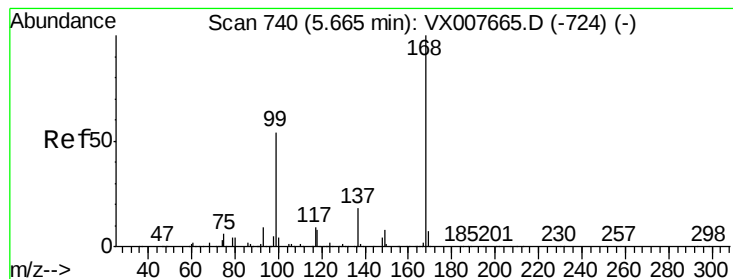
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

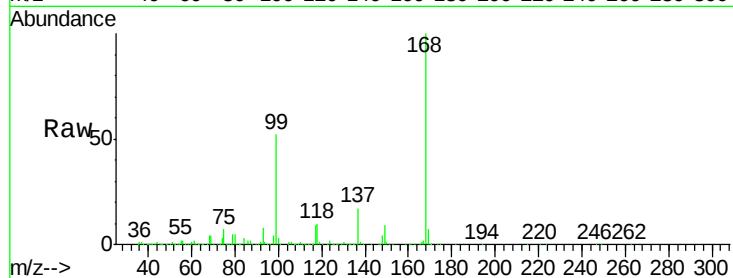
BP-VPB201-GW-220-222

Tot Ion:168 Resp: 353614

Ion Ratio Lower Upper

168 100

99 51.7 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

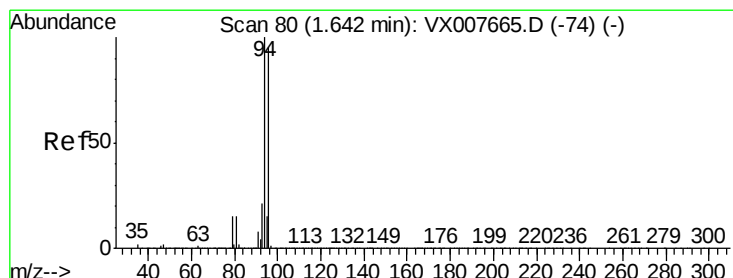
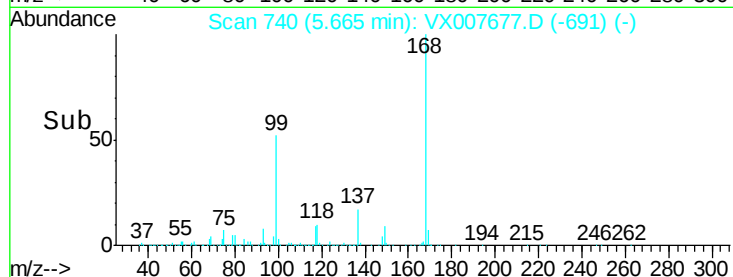
100000

50000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007677.D

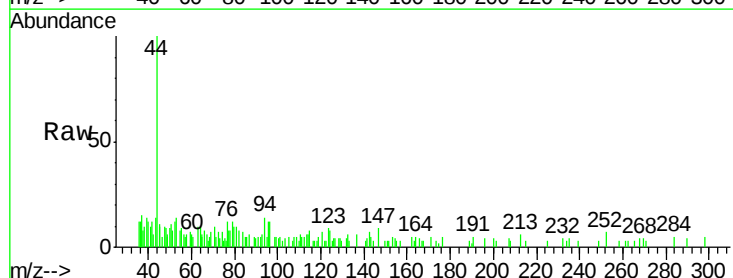
Acq: 25 Feb 2019 16:47

Tgt Ion: 94 Resp: 385

Ion Ratio Lower Upper

94 100

96 323.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

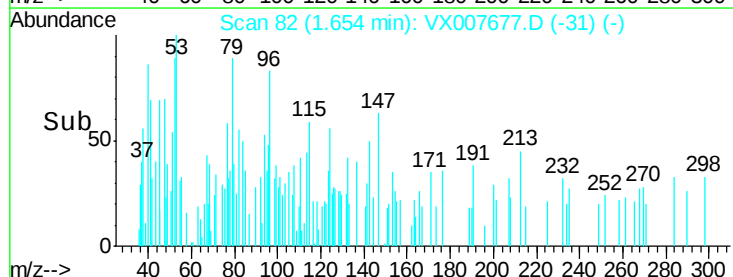
200

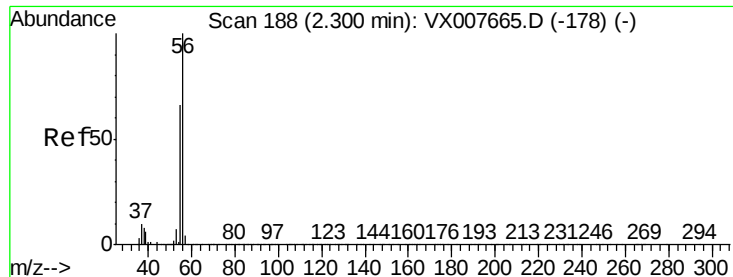
100

0

Time-->

1.62 1.64 1.66





#13

Acrolein

Concen: 0.360 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

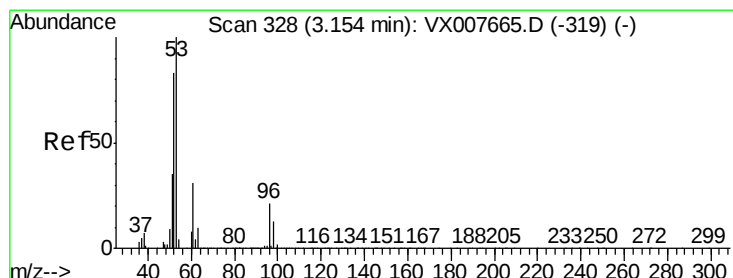
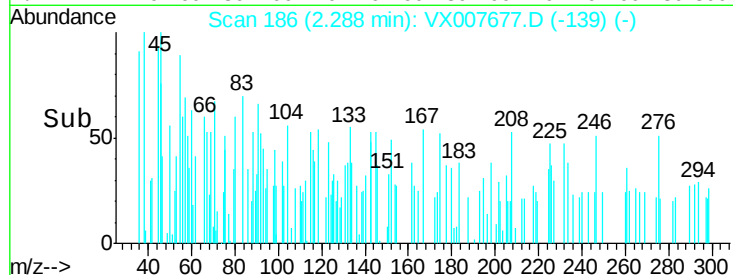
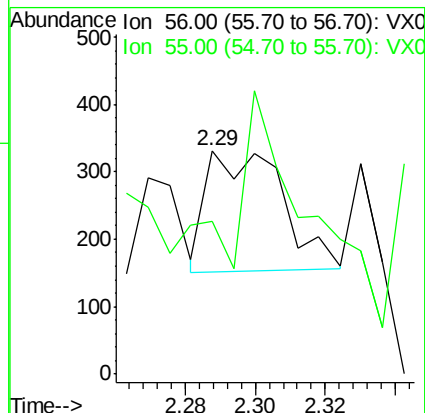
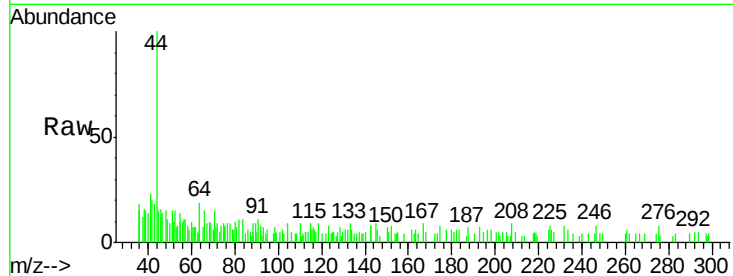
BP-VPB201-GW-220-222

Tot Ion: 56 Resp: 266

Ion Ratio Lower Upper

56 100

55 278.9 56.9 85.3#



#15

Acrylonitrile

Concen: 0.307 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

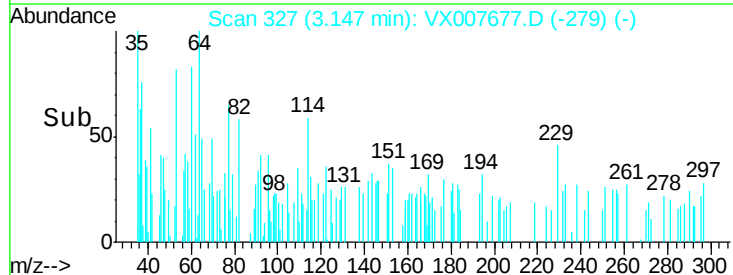
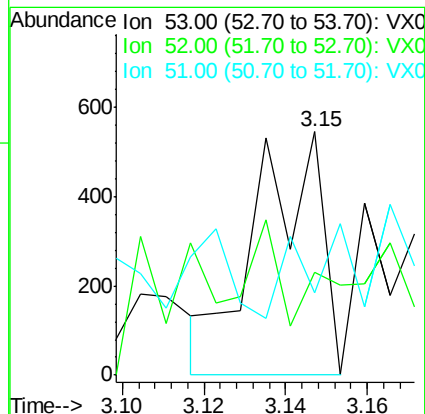
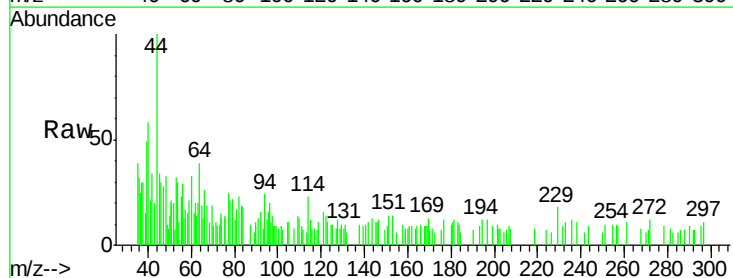
Tgt Ion: 53 Resp: 601

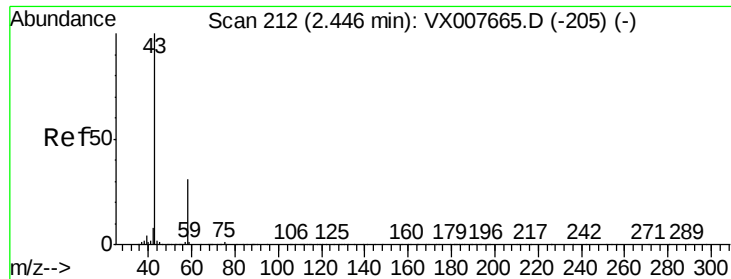
Ion Ratio Lower Upper

53 100

52 0.0 66.4 99.6#

51 29.3 28.4 42.6

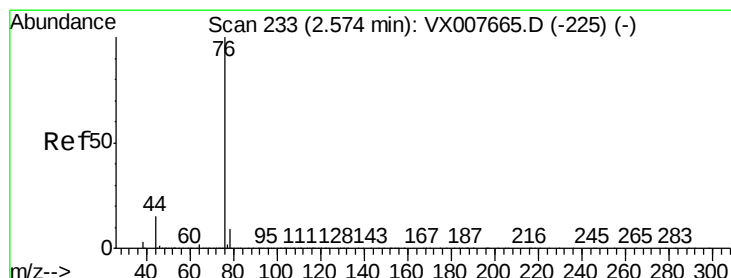
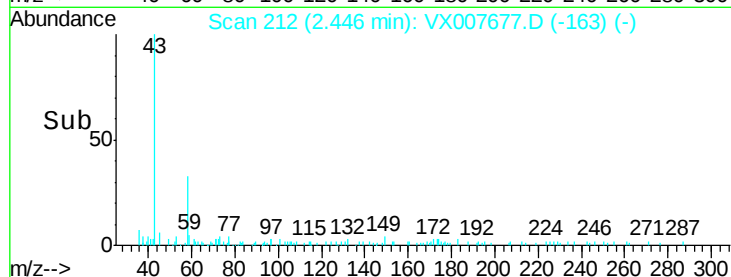
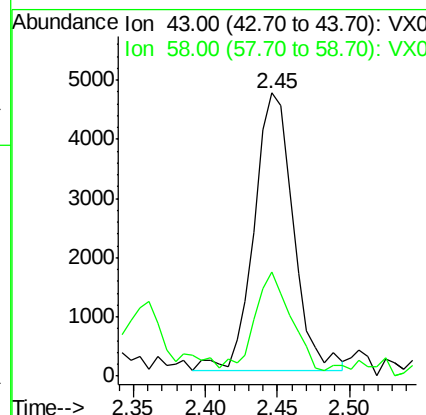
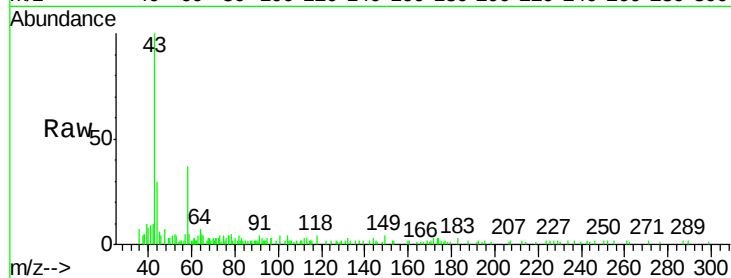




#16
Acetone
Concen: 4.506 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007677.D
Acq: 25 Feb 2019 16:47

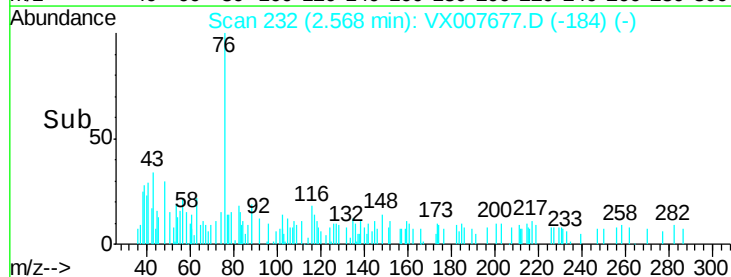
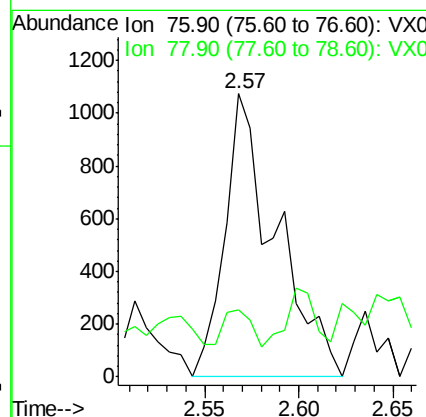
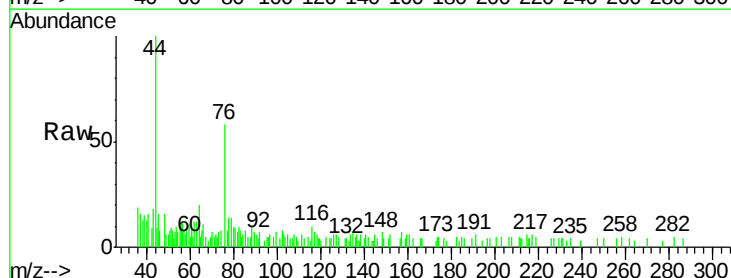
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-220-222

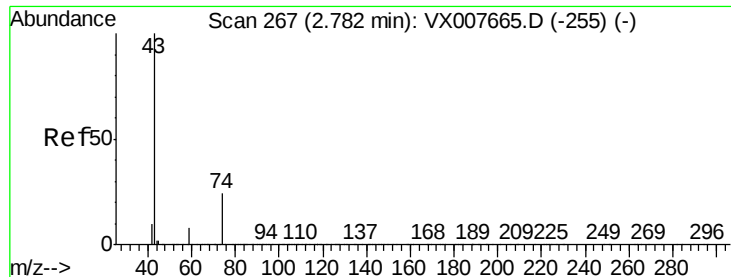
Tot Ion: 43 Resp: 8777
Ion Ratio Lower Upper
43 100
58 33.9 24.9 37.3



#17
Carbon Disulfide
Concen: 0.232 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.01 min
Lab File: VX007677.D
Acq: 25 Feb 2019 16:47

Tgt Ion: 76 Resp: 2000
Ion Ratio Lower Upper
76 100
78 6.6 7.1 10.7#

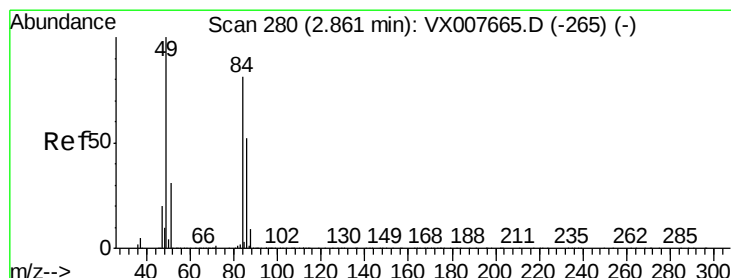
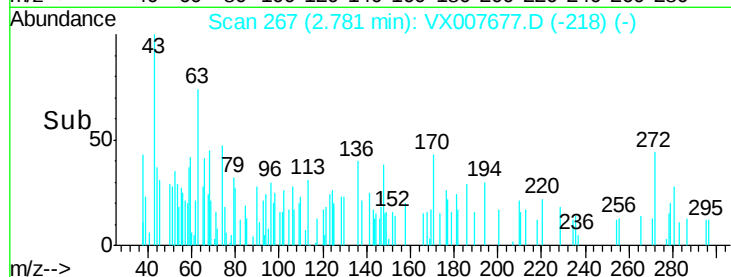
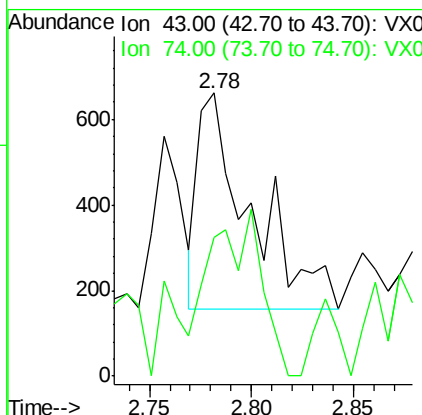
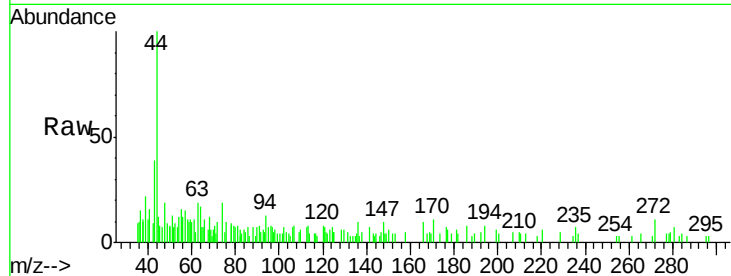




#18
Methyl Acetate
Concen: 0.215 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007677.D
Acq: 25 Feb 2019 16:47

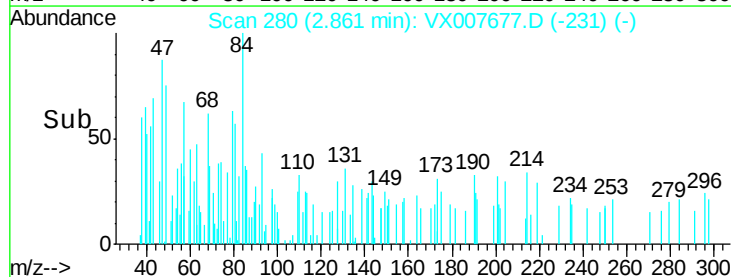
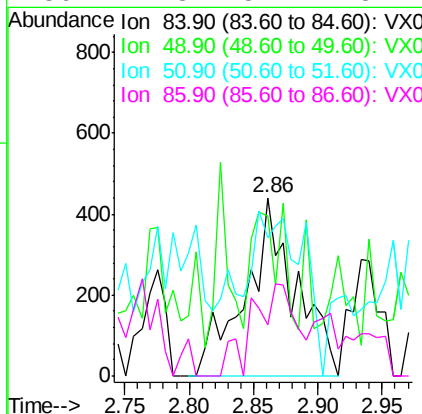
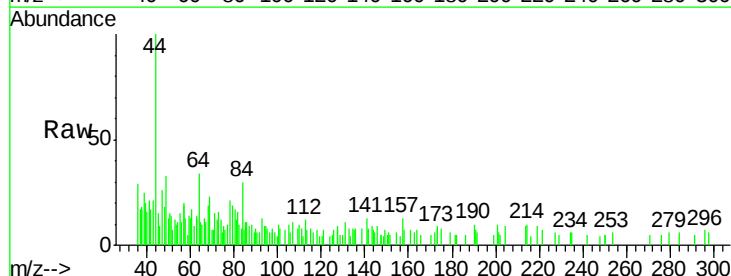
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-220-222

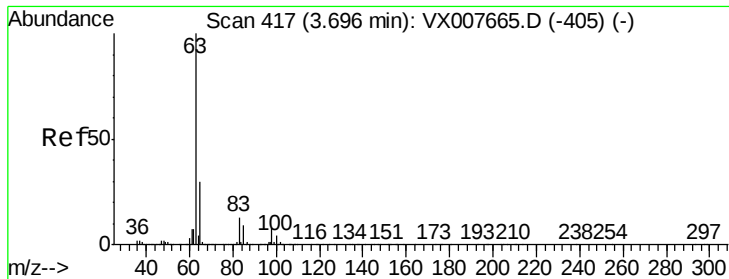
Tot Ion: 43 Resp: 912
Ion Ratio Lower Upper
43 100
74 91.1 19.4 29.2#



#20
Methylene Chloride
Concen: 0.329 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX007677.D
Acq: 25 Feb 2019 16:47

Tgt Ion: 84 Resp: 1183
Ion Ratio Lower Upper
84 100
49 55.9 94.8 142.2#
51 33.4 29.8 44.8
86 14.3 54.1 81.1#





#24

1,1-Dichloroethane

Concen: 0.380 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-220-222

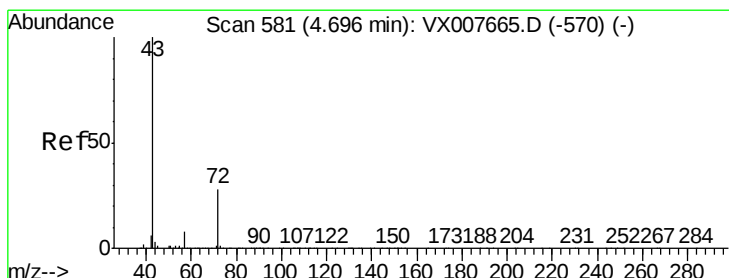
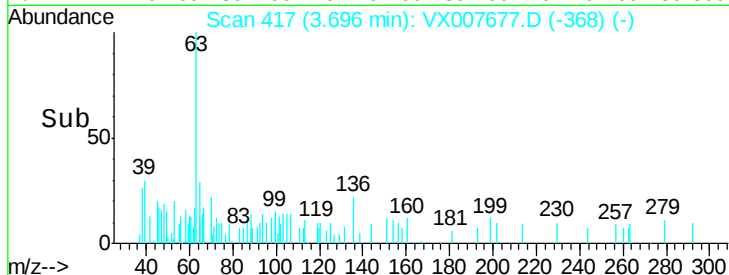
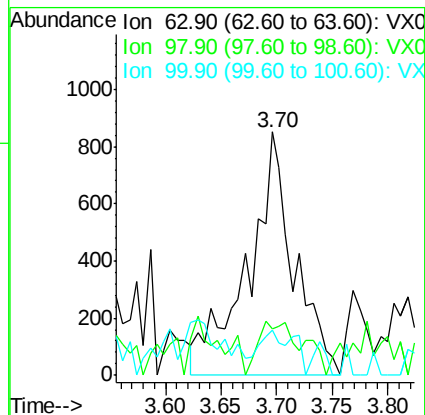
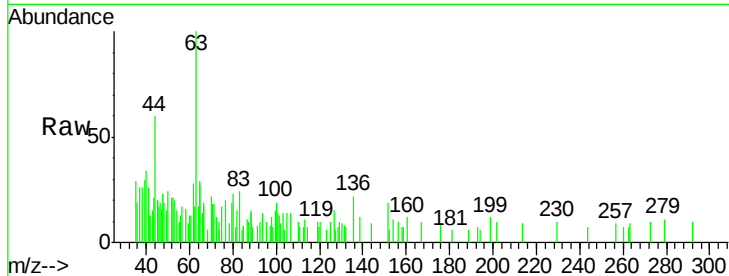
Tot Ion: 63 Resp: 2458

Ion Ratio Lower Upper

63 100

98 6.1 3.6 10.8

100 18.8 2.5 7.4#



#25

2-Butanone

Concen: 0.278 ug/l

RT: 4.69 min Scan# 580

Delta R.T. -0.01 min

Lab File: VX007677.D

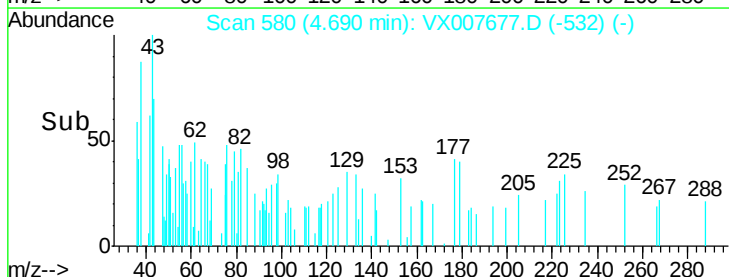
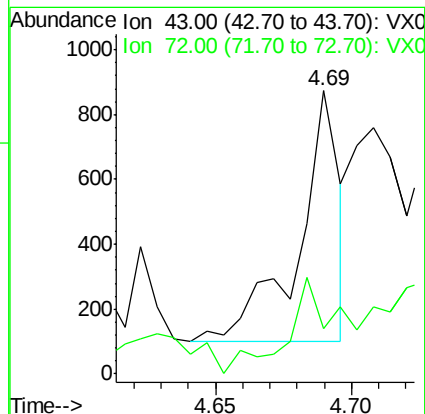
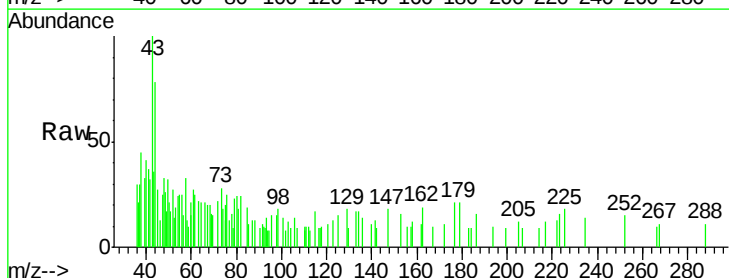
Acq: 25 Feb 2019 16:47

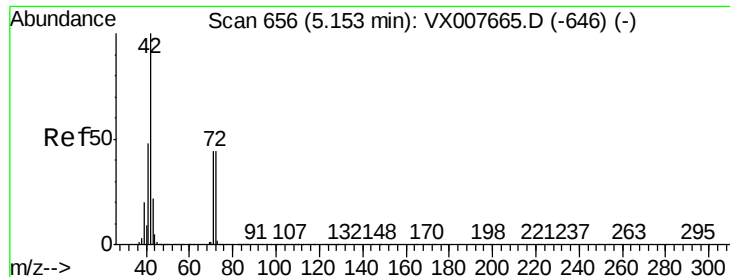
Tgt Ion: 43 Resp: 826

Ion Ratio Lower Upper

43 100

72 10.1 22.2 33.2#





#29

Tetrahydrofuran

Concen: 0.228 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-220-222

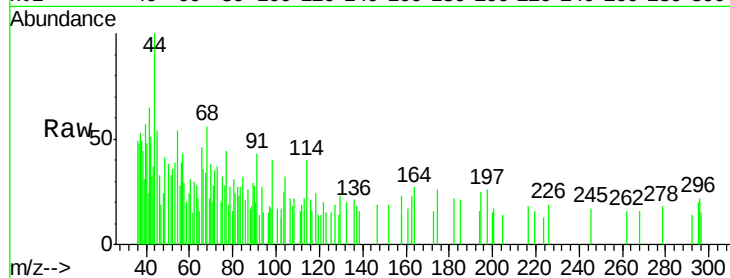
Tot Ion: 42 Resp: 445

Ion Ratio Lower Upper

42 100

72 28.5 37.6 56.4#

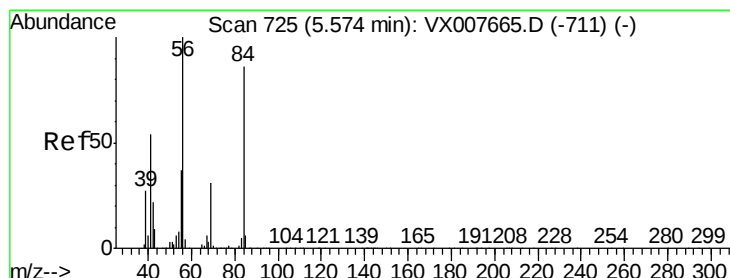
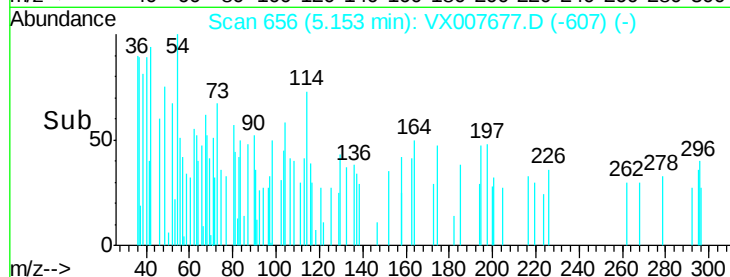
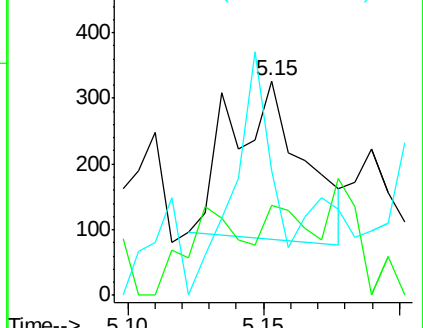
71 81.6 34.6 51.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.143 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

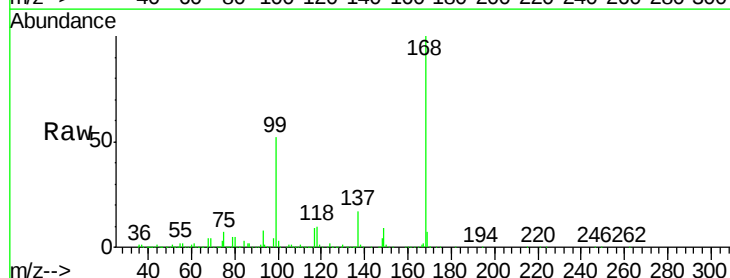
Tgt Ion: 56 Resp: 6957

Ion Ratio Lower Upper

56 100

69 179.3 23.0 34.6#

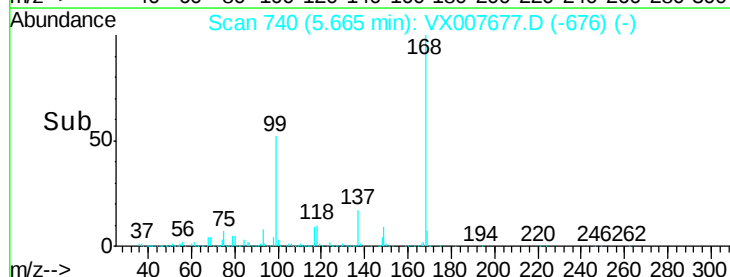
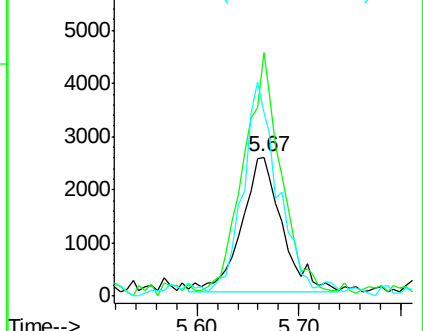
84 132.8 69.8 104.6#

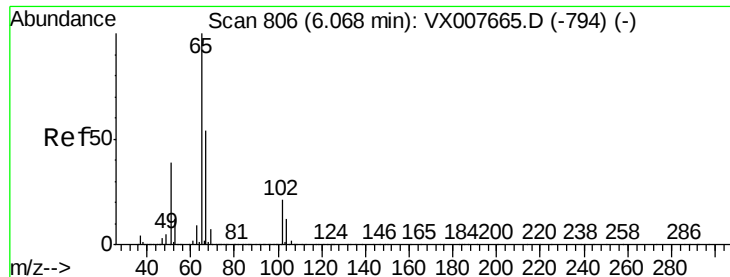


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.290 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

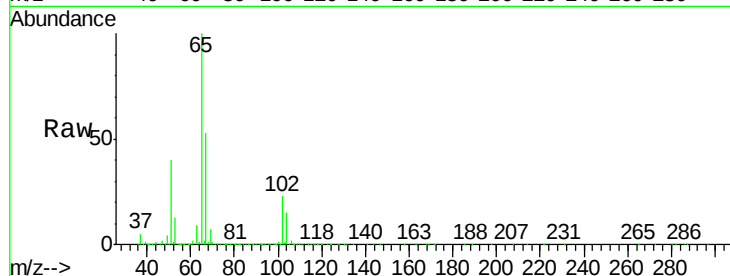
BP-VPB201-GW-220-222

Tot Ion: 65 Resp: 211519

Ion Ratio Lower Upper

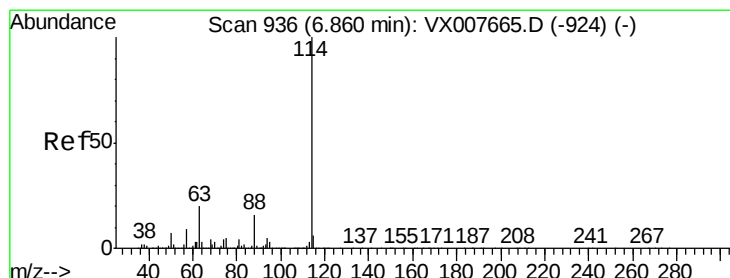
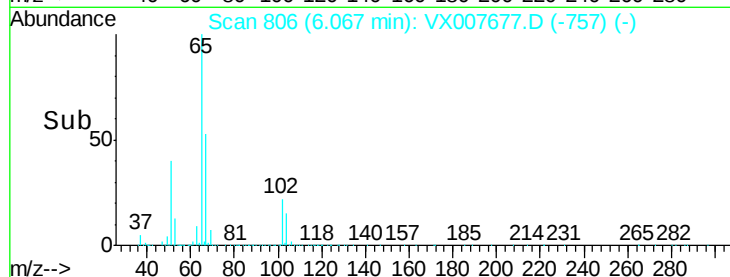
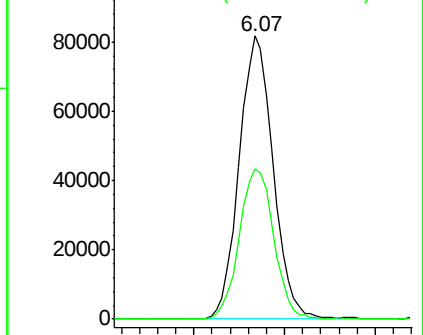
65 100

67 53.8 0.0 108.8



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: VX007677.D

Acq: 25 Feb 2019 16:47

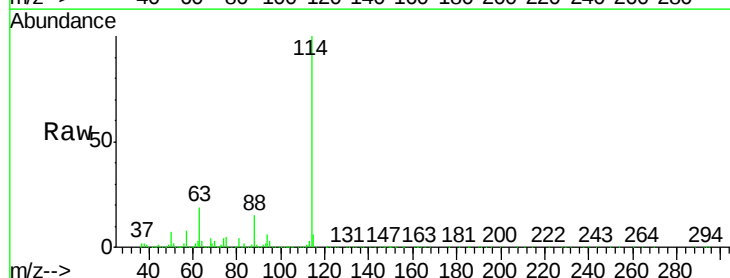
Tgt Ion: 114 Resp: 595016

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.6

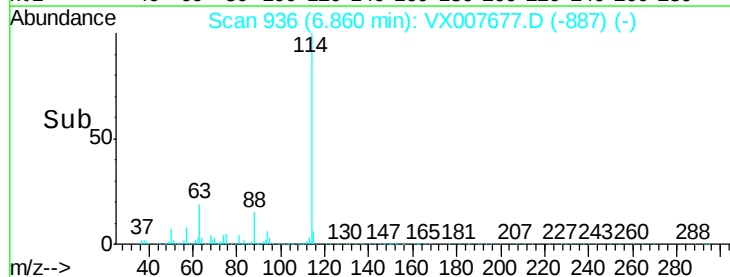
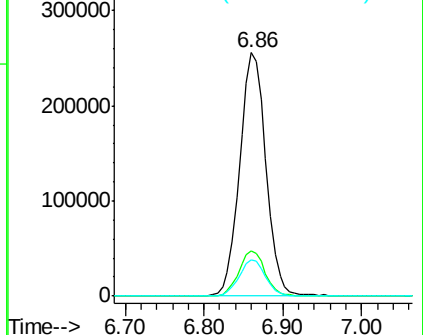
88 15.1 0.0 29.6

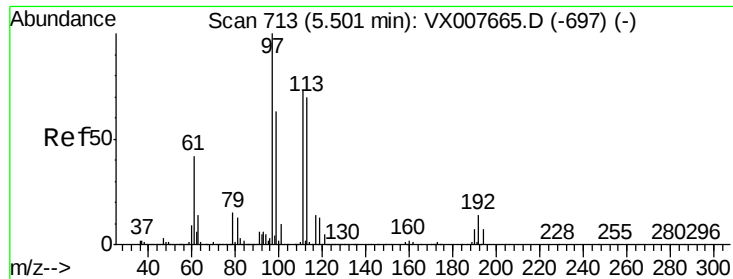


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.118 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

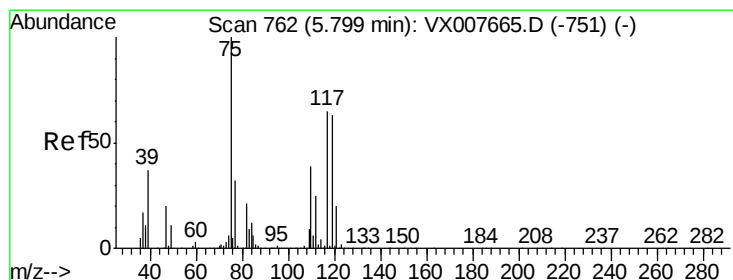
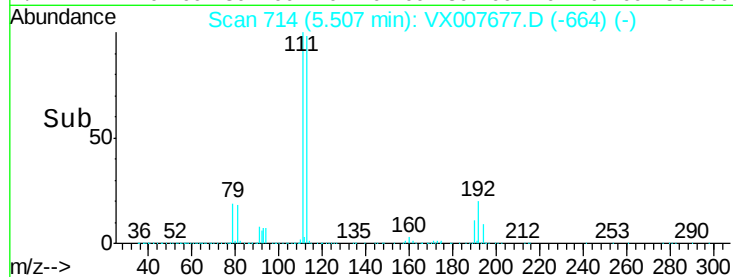
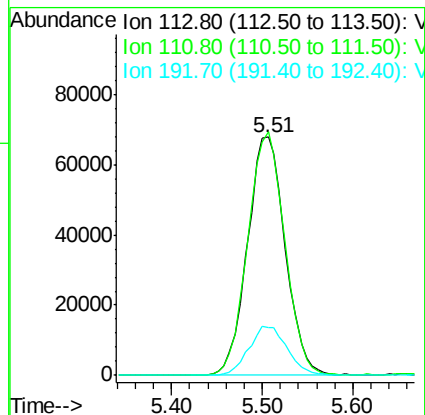
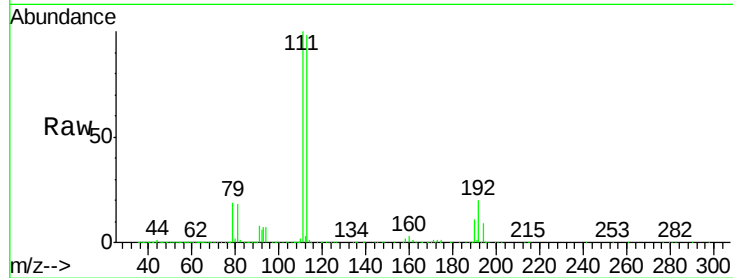
Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-220-222

Tot Ion:113	Resp:	195367
Ion Ratio	Lower	Upper
113	100	
111	100.6	81.8 122.8
192	20.9	18.5 27.7



#36

1,1-Dichloropropene

Concen: 4.864 ug/l

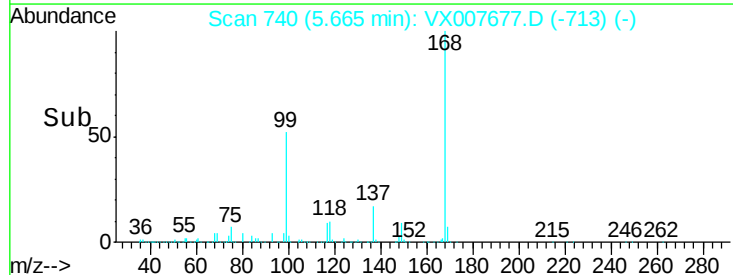
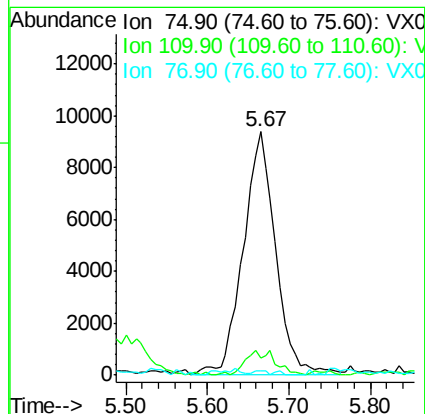
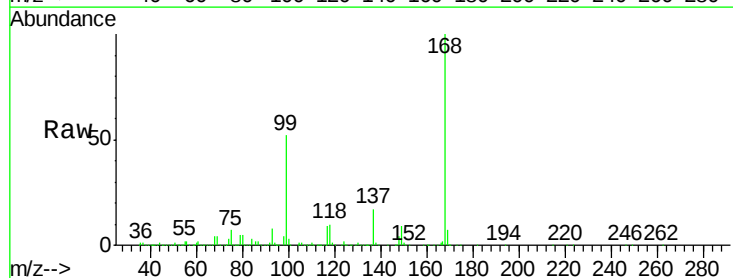
RT: 5.67 min Scan# 740

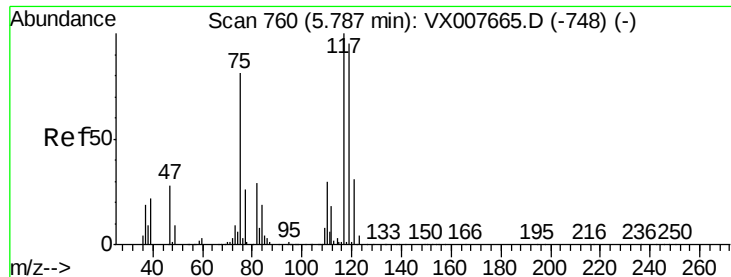
Delta R.T. -0.13 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Tgt Ion: 75	Resp:	26021
Ion Ratio	Lower	Upper
75	100	
110	9.6	20.0 59.9#
77	0.8	24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.944 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-220-222

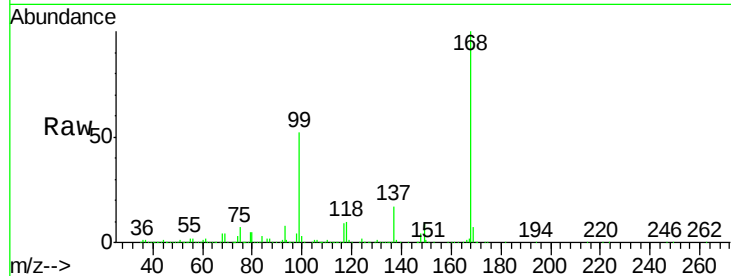
Tot Ion:117 Resp: 31942

Ion Ratio Lower Upper

117 100

119 5.1 75.3 112.9#

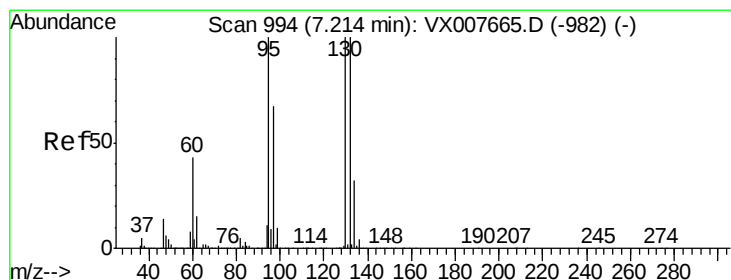
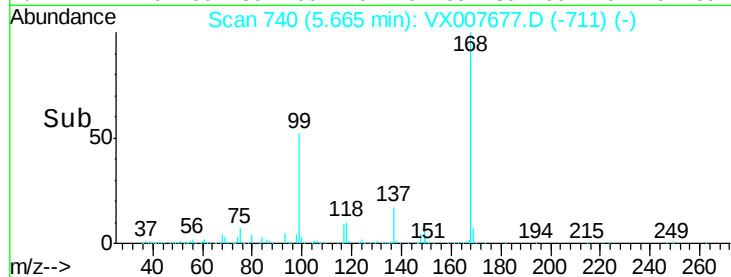
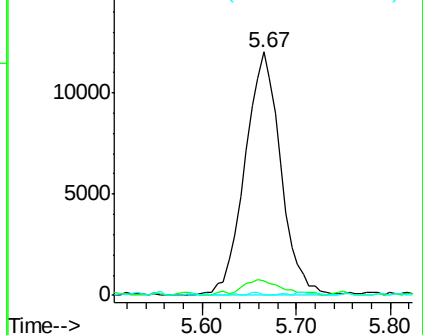
121 0.0 25.0 37.4#



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: 0.437 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX007677.D

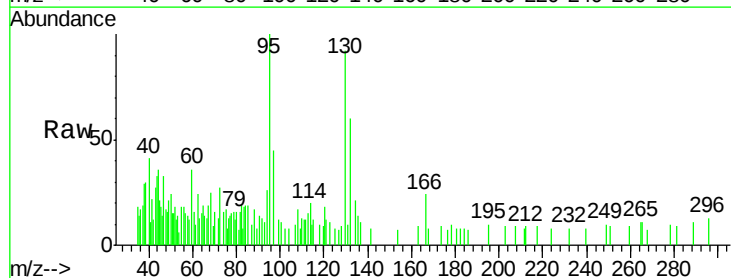
Acq: 25 Feb 2019 16:47

Tgt Ion:130 Resp: 1986

Ion Ratio Lower Upper

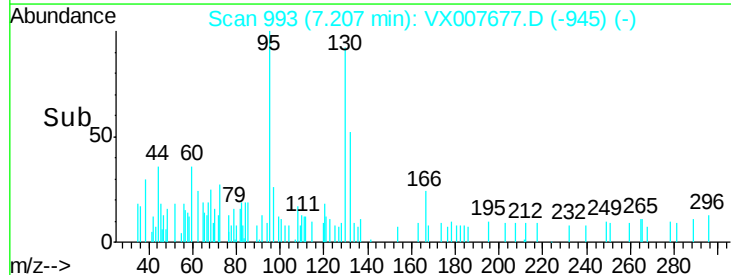
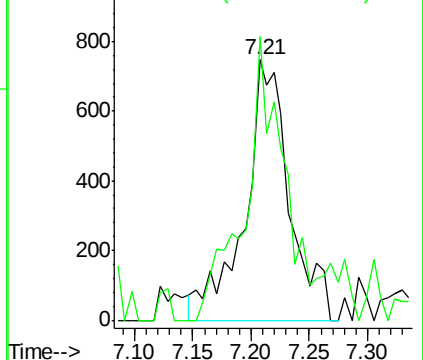
130 100

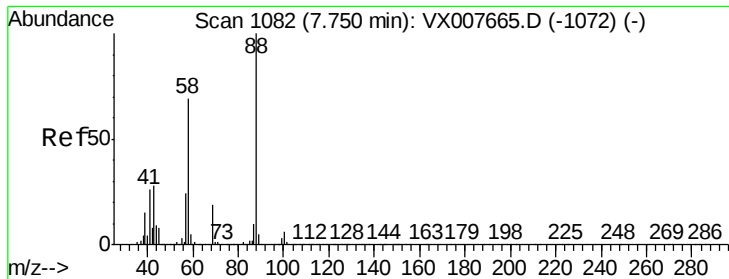
95 108.8 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.342 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-220-222

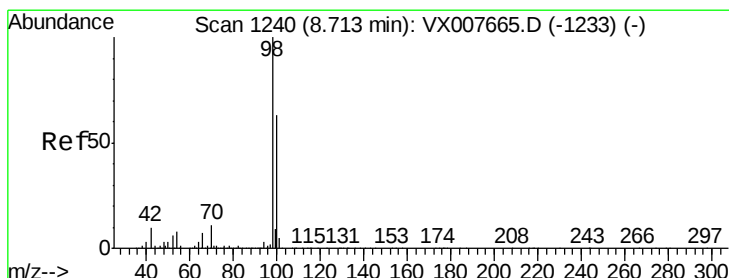
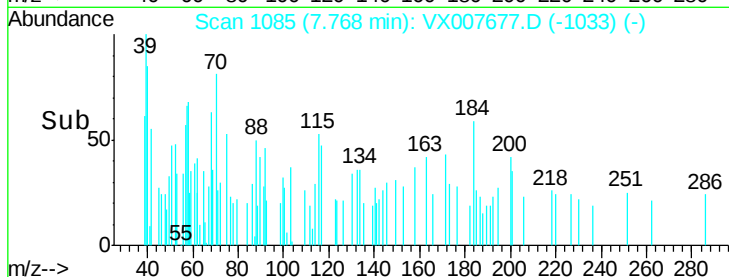
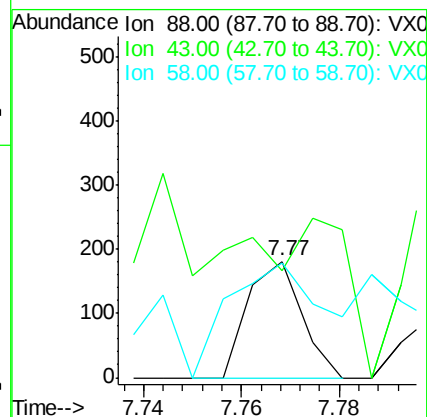
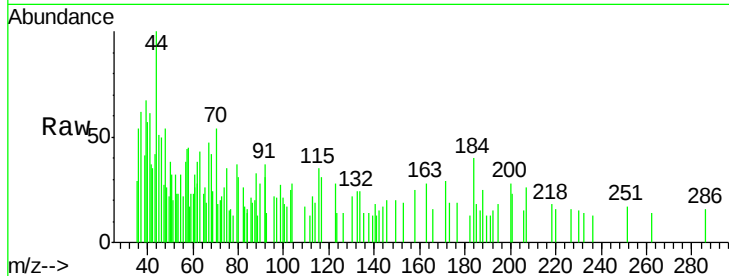
Tot Ion: 88 Resp: 139

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 172.7 53.0 79.4#



#50

Toluene-d8

Concen: 47.138 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007677.D

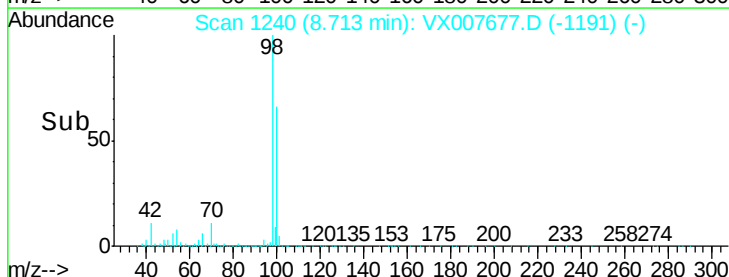
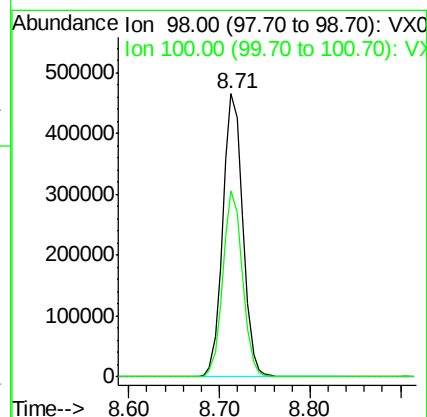
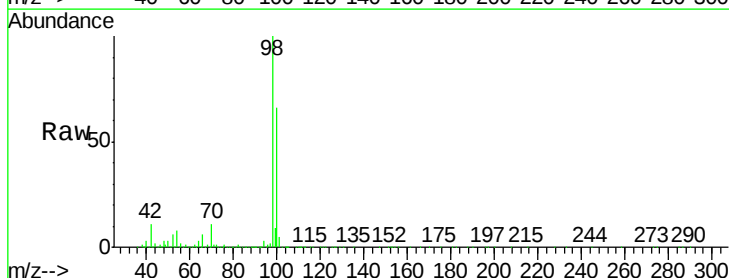
Acq: 25 Feb 2019 16:47

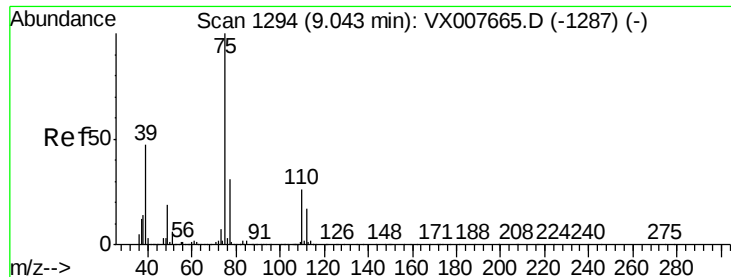
Tgt Ion: 98 Resp: 717788

Ion Ratio Lower Upper

98 100

100 64.4 51.6 77.4





#53

t-1,3-Dichloropropene

Concen: 2.824 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

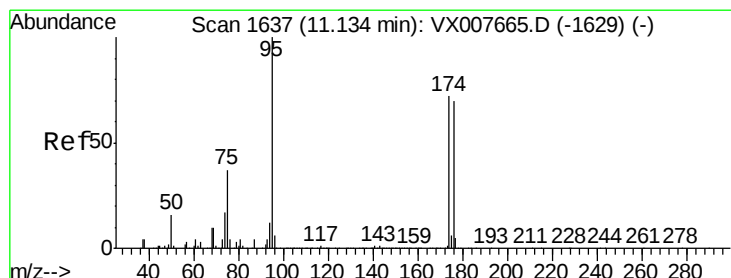
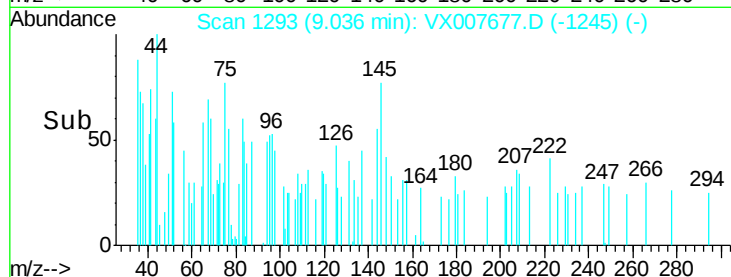
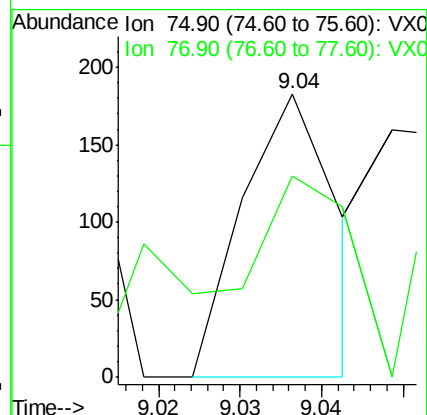
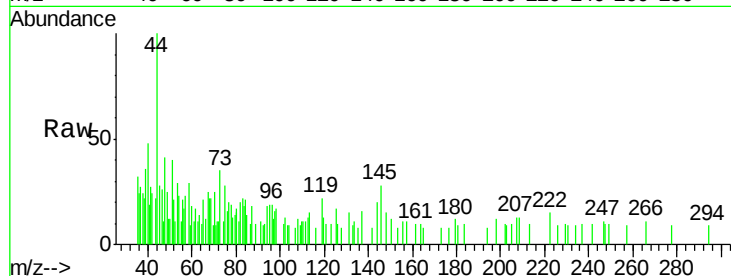
BP-VPB201-GW-220-222

Tot Ion: 75 Resp: 147

Ion Ratio Lower Upper

75 100

77 41.5 25.2 37.8#



#62

4-Bromofluorobenzene

Concen: 45.224 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

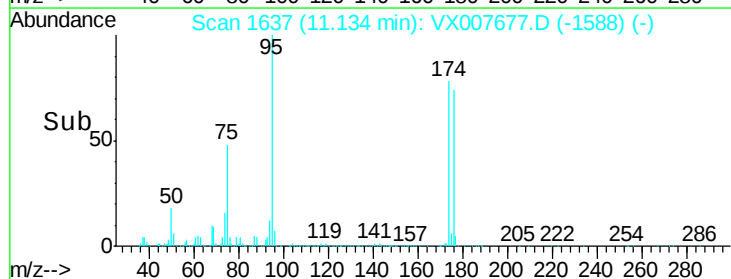
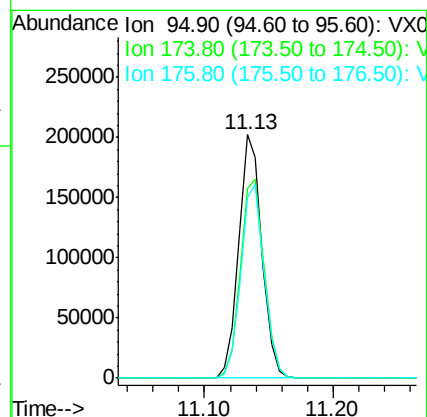
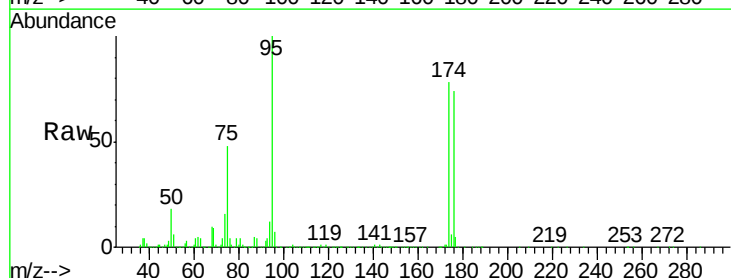
Tgt Ion: 95 Resp: 252755

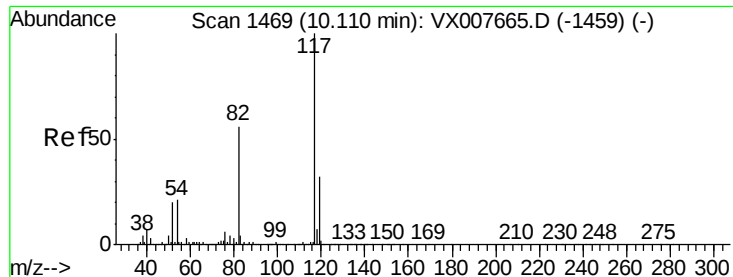
Ion Ratio Lower Upper

95 100

174 84.9 0.0 189.2

176 80.8 0.0 186.2

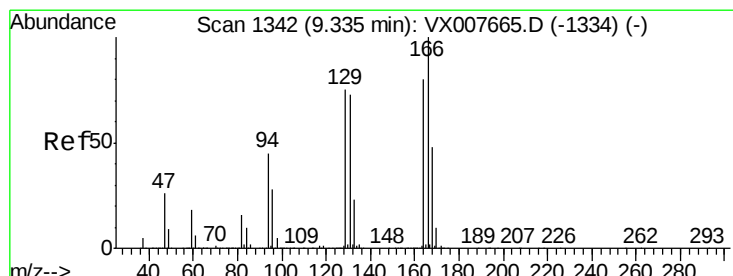
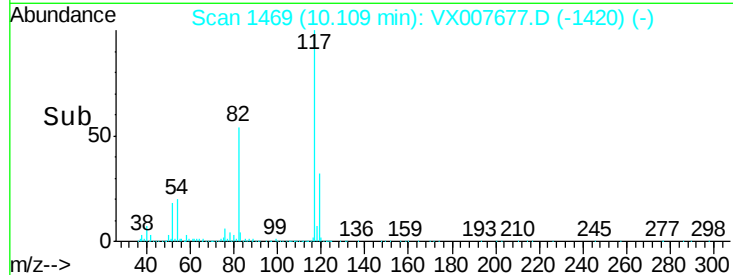
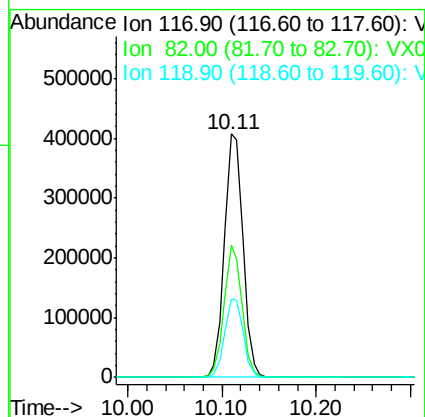
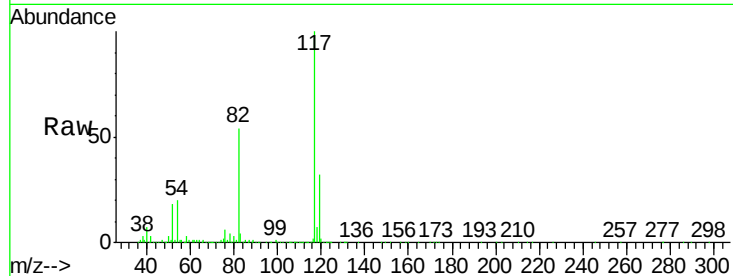




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007677.D
Acq: 25 Feb 2019 16:47

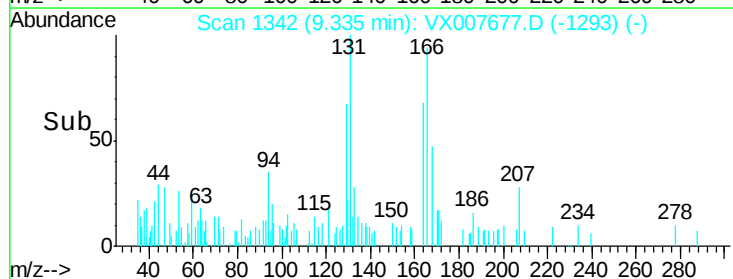
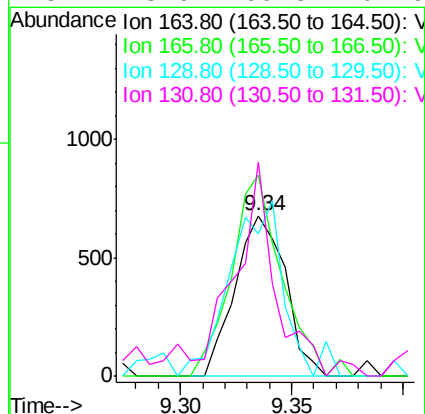
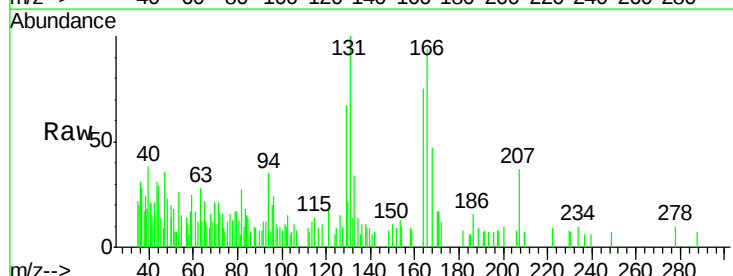
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-220-222

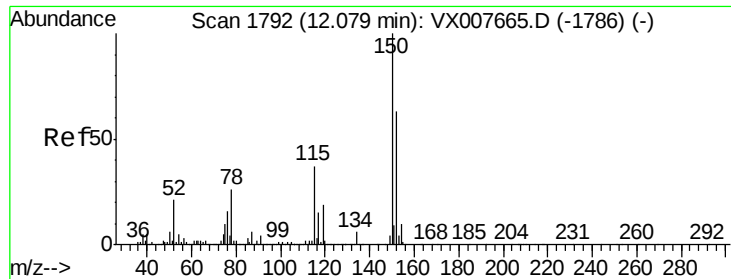
Tot Ion:117 Resp: 557898
Ion Ratio Lower Upper
117 100
82 54.2 42.1 63.1
119 32.4 26.5 39.7



#64
Tetrachloroethene
Concen: 0.235 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007677.D
Acq: 25 Feb 2019 16:47

Tgt Ion:164 Resp: 1065
Ion Ratio Lower Upper
164 100
166 125.8 101.0 151.4
129 88.9 70.5 105.7
131 123.9 69.8 104.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007677.D

Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-220-222

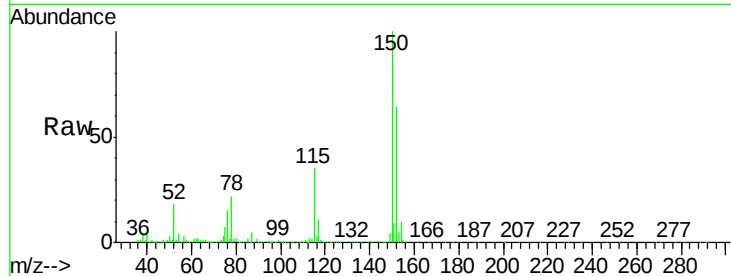
Tot Ion:152 Resp: 254197

Ion Ratio Lower Upper

152 100

115 55.8 38.0 114.0

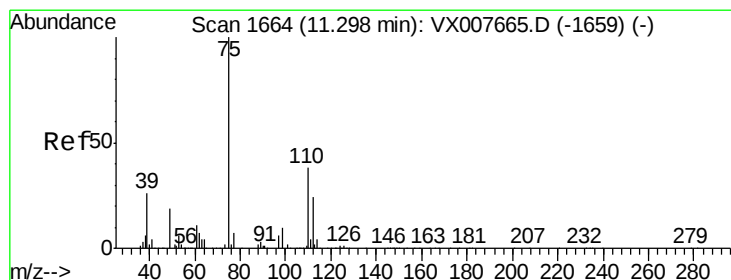
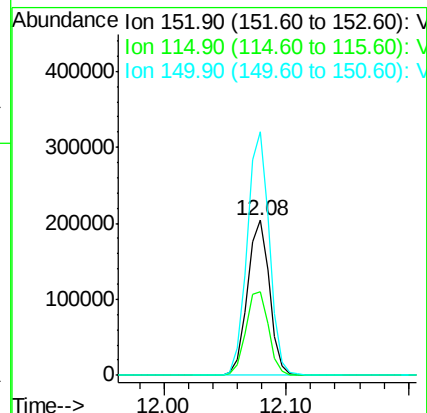
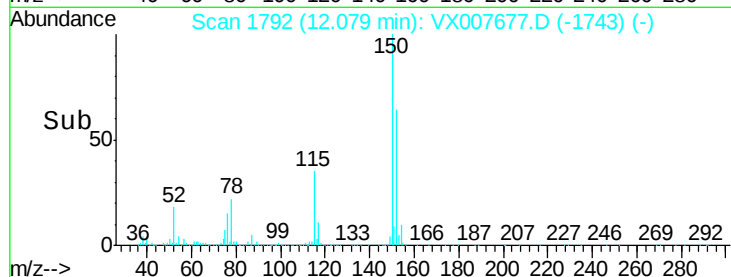
150 157.6 0.0 346.4



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: 22.353 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007677.D

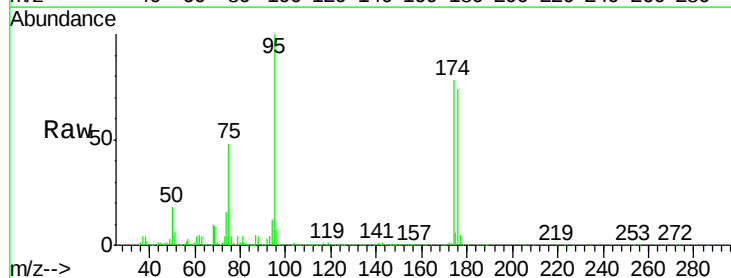
Acq: 25 Feb 2019 16:47

Tgt Ion: 75 Resp: 121115

Ion Ratio Lower Upper

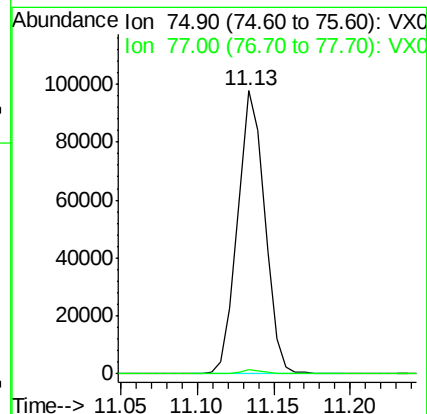
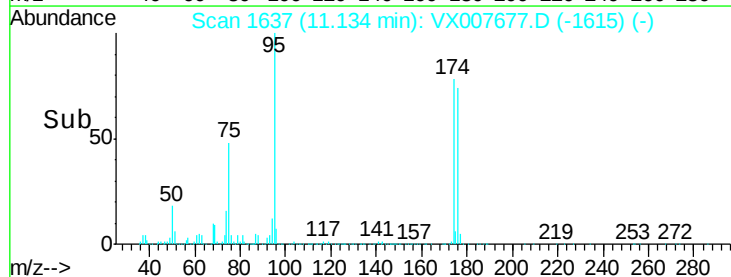
75 100

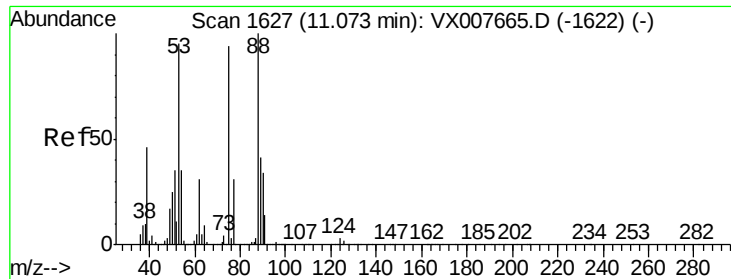
77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.304 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007677.D

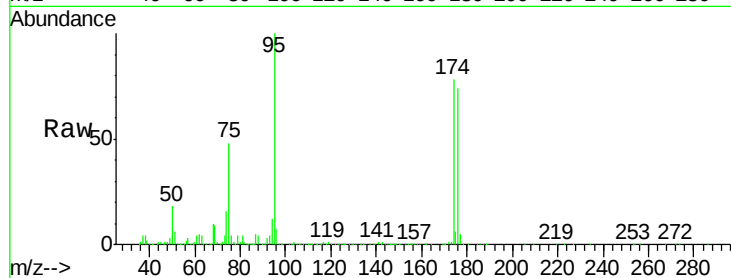
Acq: 25 Feb 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-220-222



Tot Ion:	75	Resp:	121115
Ion	Ratio	Lower	Upper
75	100		
53	0.1	81.0	121.6#
89	0.1	41.4	62.0#

