

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040119\
 Data File : VX008564.D
 Acq On : 01 Apr 2019 13:27
 Operator : JC/SP
 Sample : K2189-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201R-EB-20190329

Quant Time: Apr 02 01:10:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	224600	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	376358	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	316724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	124587	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	156074	45.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.68%	
35) Dibromofluoromethane	5.50	113	115098	46.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.80%	
50) Toluene-d8	8.71	98	467798	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
62) 4-Bromofluorobenzene	11.13	95	152496	41.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.88%	

Target Compounds

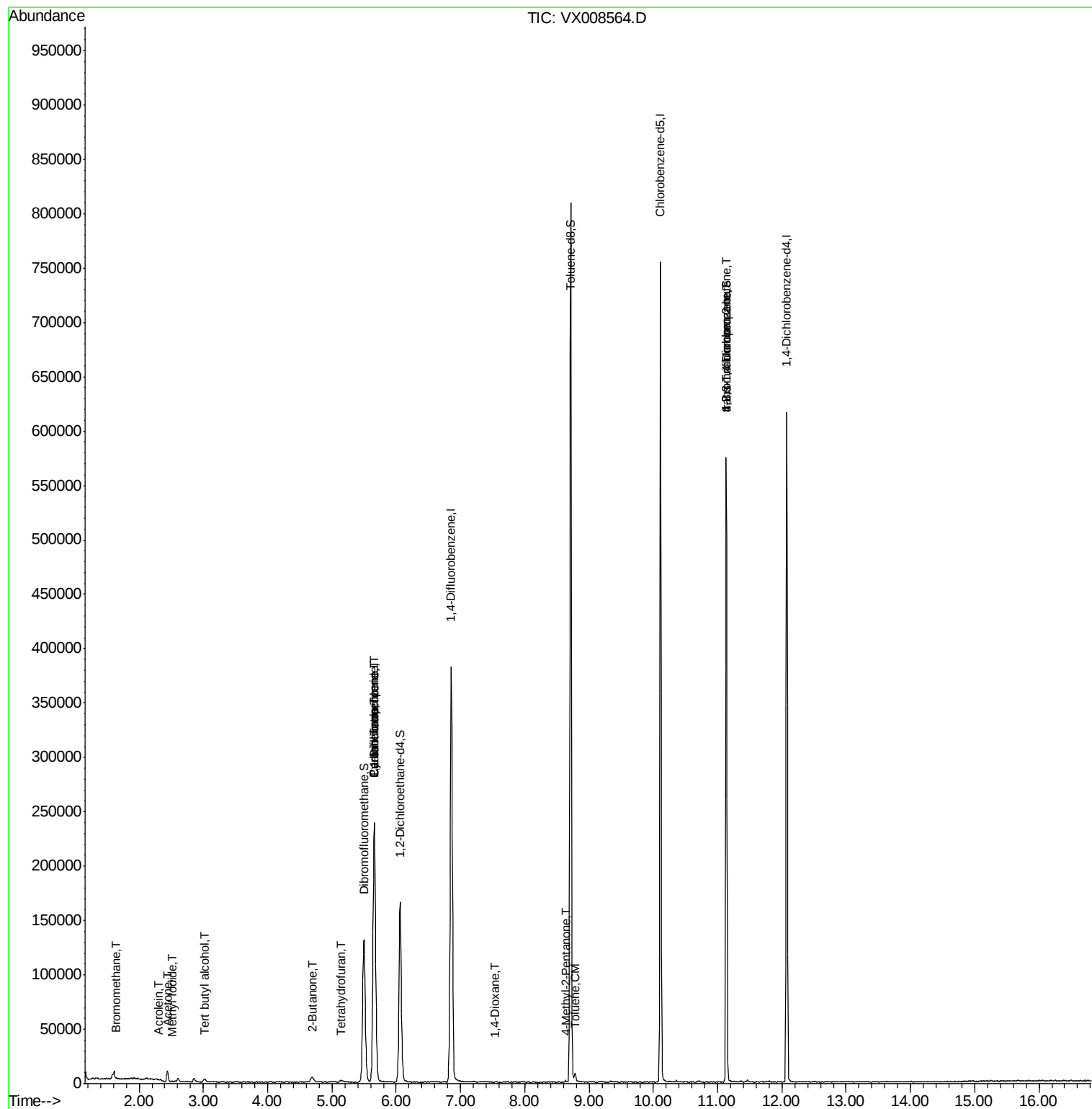
					Qvalue	
3) Chloromethane	1.32	50	617	Below Cal		95
5) Bromomethane	1.65	94	458	2.035 ug/l #		75
10) Methyl Iodide	2.53	142	282	4.234 ug/l #		89
11) Tert butyl alcohol	3.02	59	1809	2.398 ug/l #		80
13) Acrolein	2.30	56	138	0.252 ug/l #		27
16) Acetone	2.44	43	10722	6.025 ug/l		100
17) Carbon Disulfide	2.57	76	865	Below Cal #		83
20) Methylene Chloride	2.85	84	1505	Below Cal #		87
21) trans-1,2-Dichloroethene	3.16	96	68	Below Cal #		1
25) 2-Butanone	4.69	43	3009	1.055 ug/l #		89
29) Tetrahydrofuran	5.13	42	1614	0.858 ug/l #		77
31) Cyclohexane	5.65	56	5363	0.983 ug/l #		1
36) 1,1-Dichloropropene	5.65	75	19145	4.771 ug/l #		50
38) Carbon Tetrachloride	5.66	117	22216	6.634 ug/l #		16
49) 1,4-Dioxane	7.53	88	19	0.230 ug/l #		68
51) 4-Methyl-2-Pentanone	8.64	43	1161	0.215 ug/l		92
52) Toluene	8.79	92	2576	0.359 ug/l		98
76) 1,2,3-Trichloropropane	11.13	75	77436	20.907 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.13	75	77436	66.961 ug/l #		9

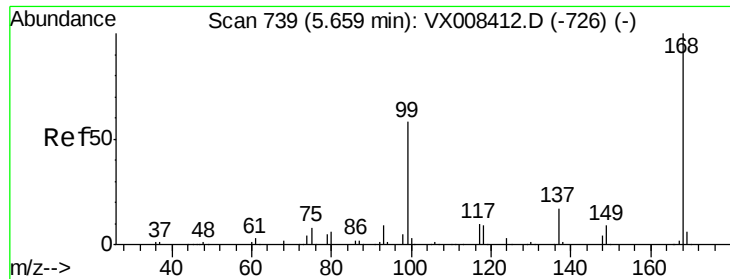
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

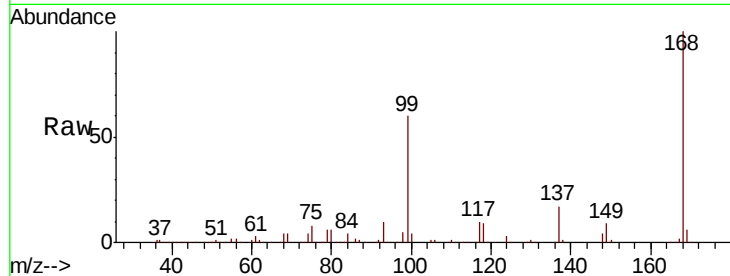
BP-VPB201R-EB-20190329

Tot Ion:168 Resp: 224600

Ion Ratio Lower Upper

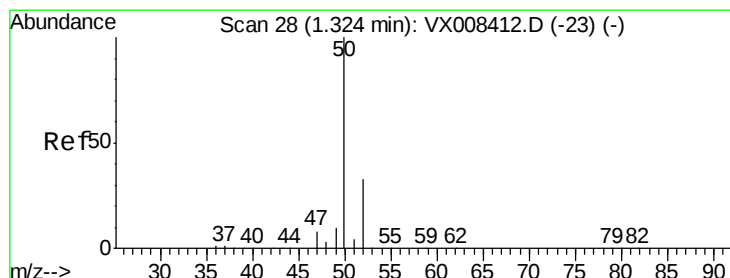
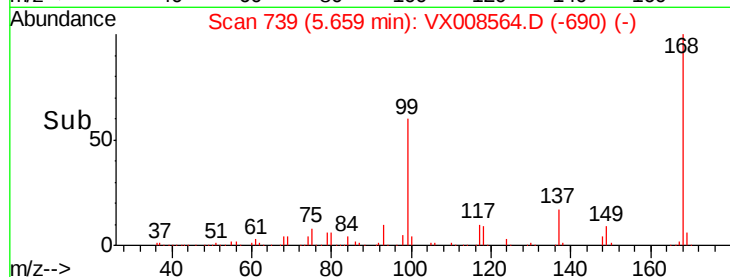
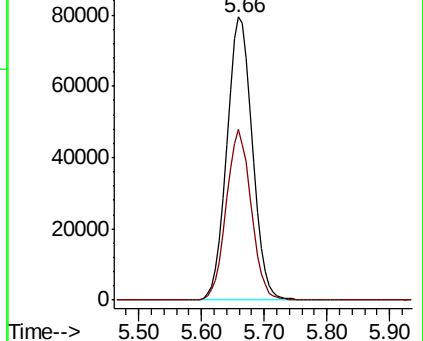
168 100

99 60.4 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008564.D

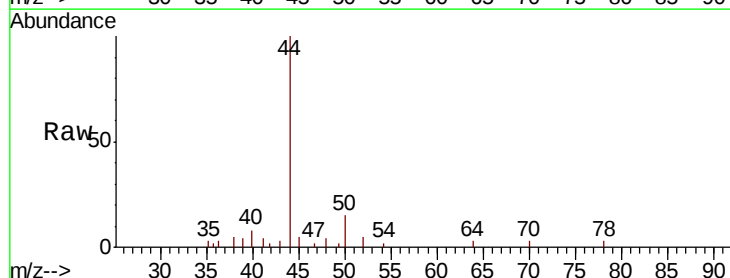
Acq: 01 Apr 2019 13:27

Tgt Ion: 50 Resp: 617

Ion Ratio Lower Upper

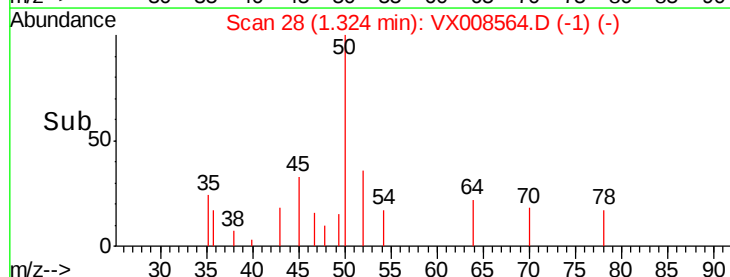
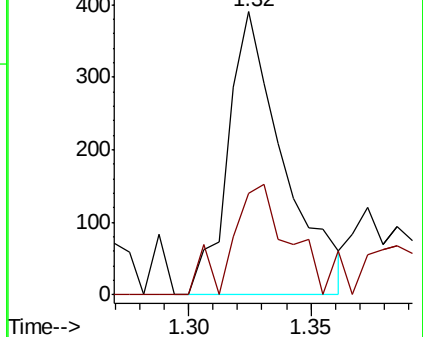
50 100

52 35.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.035 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

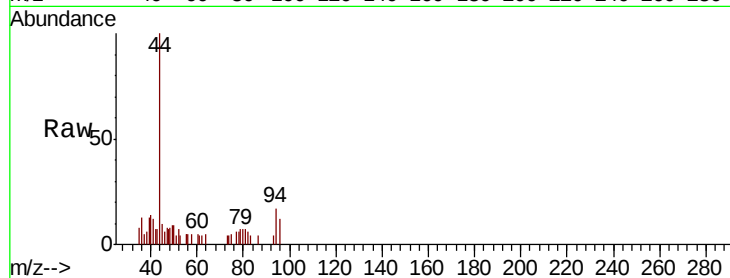
BP-VPB201R-EB-20190329

Tot Ion: 94 Resp: 458

Ion Ratio Lower Upper

94 100

96 69.7 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

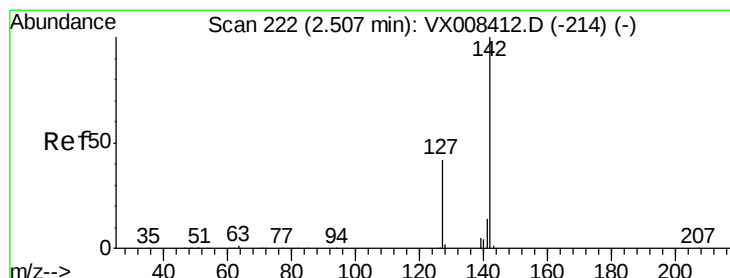
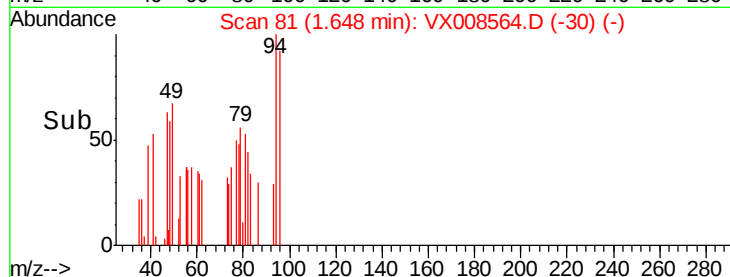
150

100

50

0

Time--> 1.60 1.65 1.70



#10

Methyl Iodide

Concen: 4.234 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

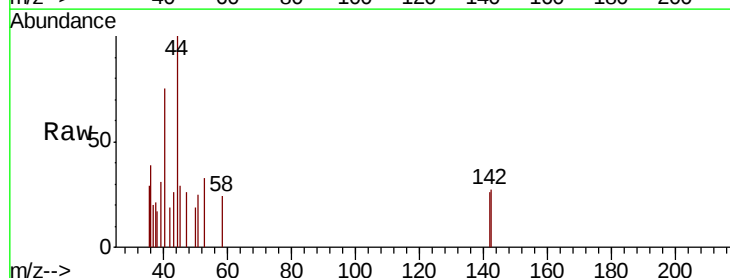
Tgt Ion: 142 Resp: 282

Ion Ratio Lower Upper

142 100

127 44.3 33.6 50.4

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

200

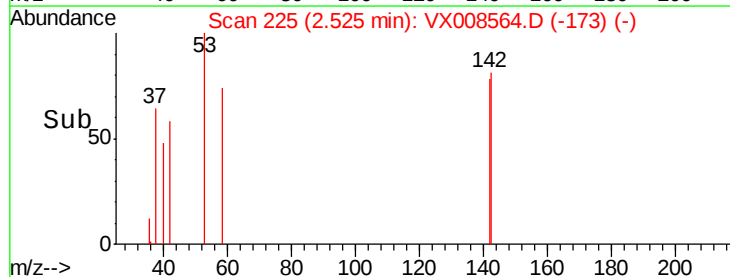
150

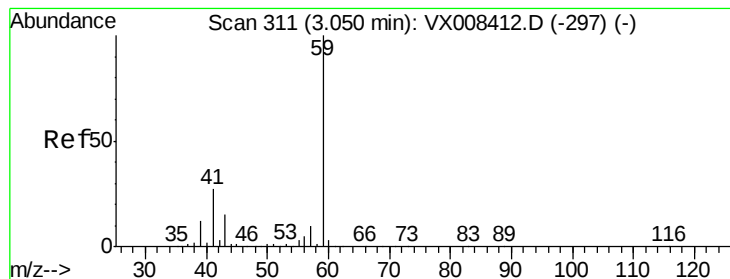
100

50

0

Time--> 2.50 2.55



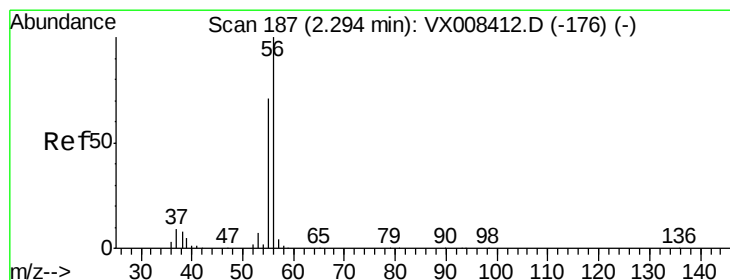
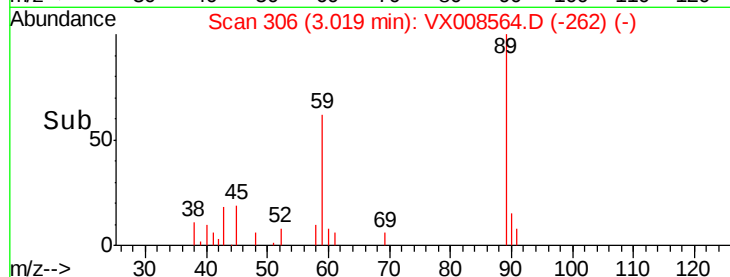
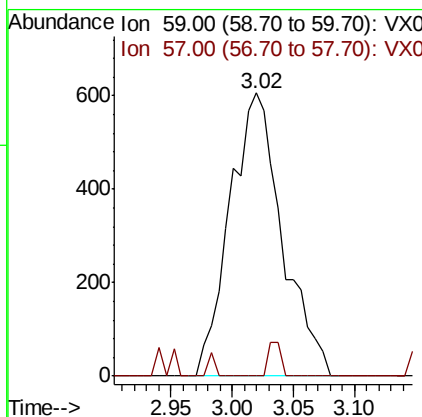
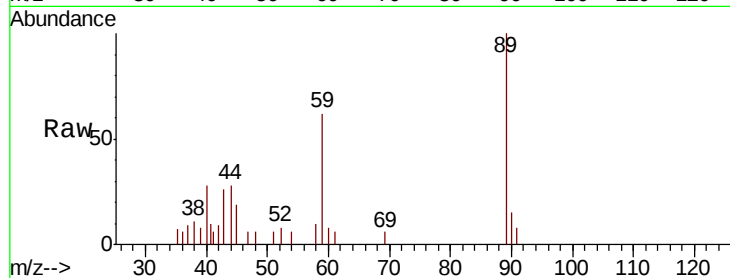


#11

Tert butyl alcohol
 Concen: 2.398 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201R-EB-20190329

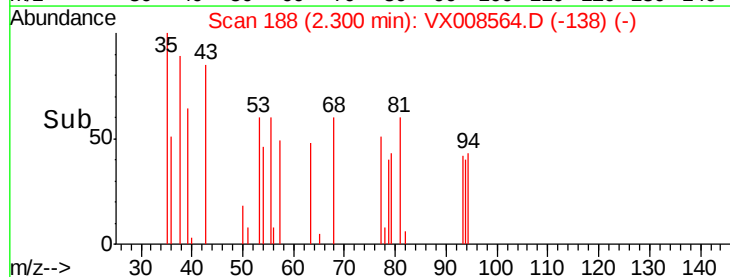
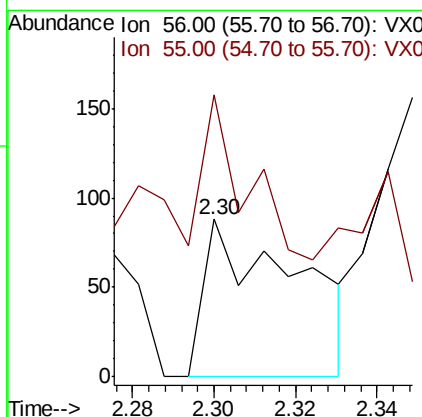
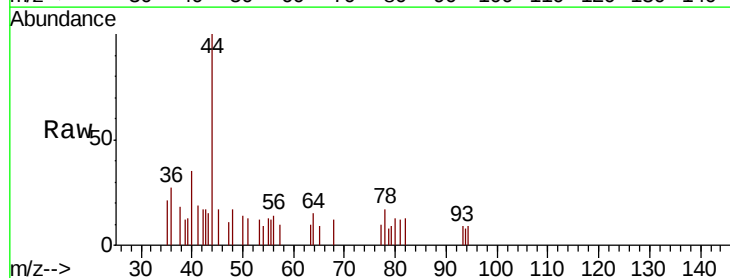
Tot Ion: 59 Resp: 1809
 Ion Ratio Lower Upper
 59 100
 57 2.9 8.2 12.4#

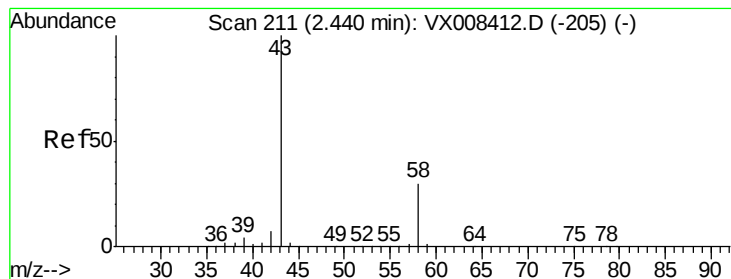


#13

Acrolein
 Concen: 0.252 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

Tgt Ion: 56 Resp: 138
 Ion Ratio Lower Upper
 56 100
 55 130.4 56.5 84.7#





#16

Acetone

Concen: 6.025 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

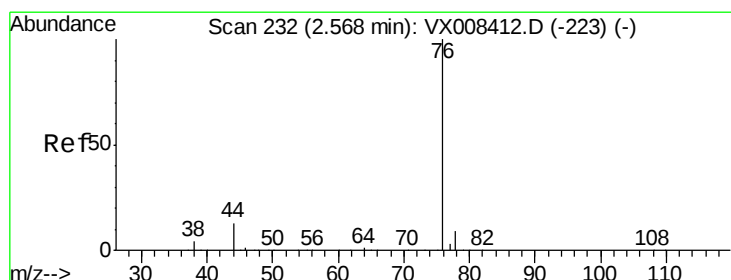
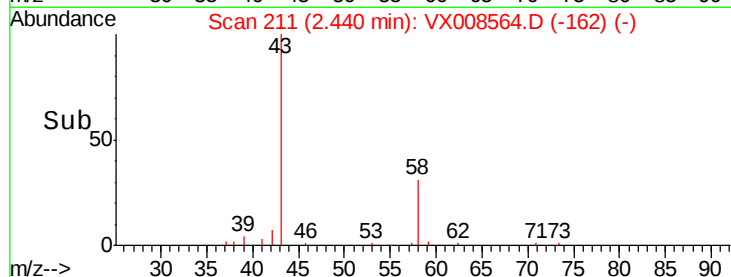
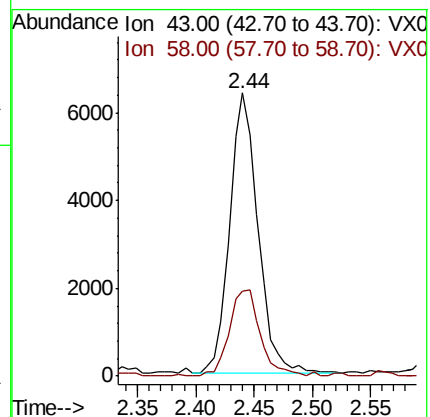
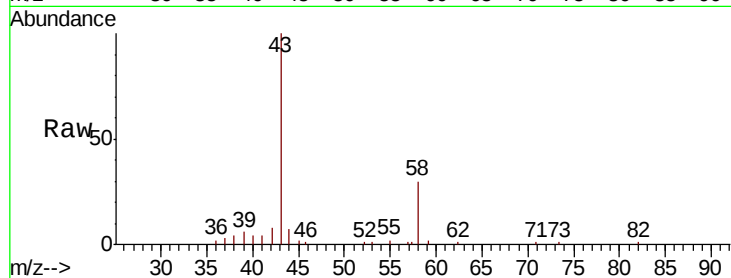
BP-VPB201R-EB-20190329

Tot Ion: 43 Resp: 10722

Ion Ratio Lower Upper

43 100

58 30.2 24.2 36.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008564.D

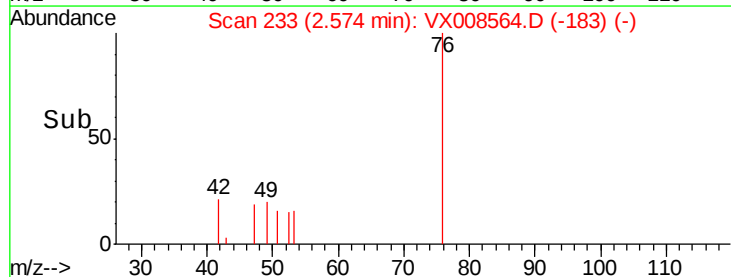
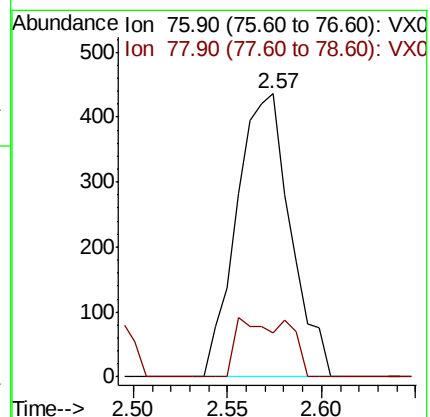
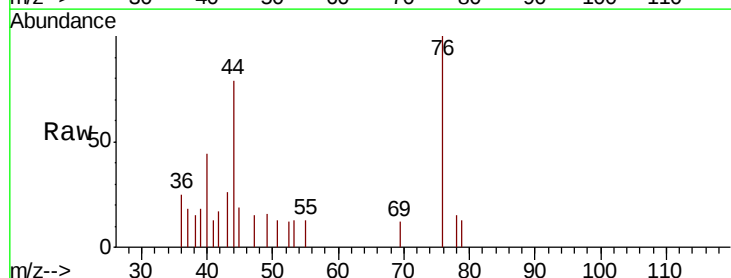
Acq: 01 Apr 2019 13:27

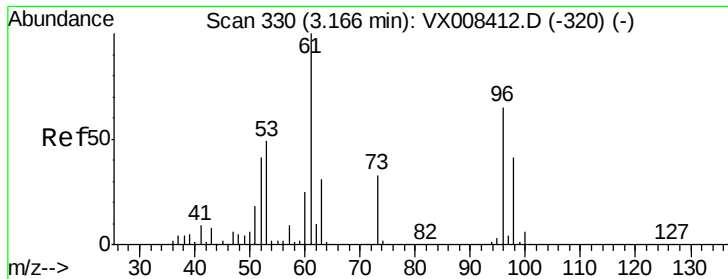
Tgt Ion: 76 Resp: 865

Ion Ratio Lower Upper

76 100

78 15.4 7.4 11.2#





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.16 min Scan# 329

Delta R.T. -0.01 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201R-EB-20190329

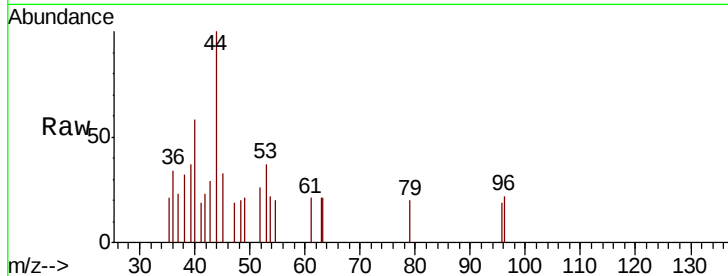
Tot Ion: 96 Resp: 68

Ion Ratio Lower Upper

96 100

61 0.0 122.6 184.0#

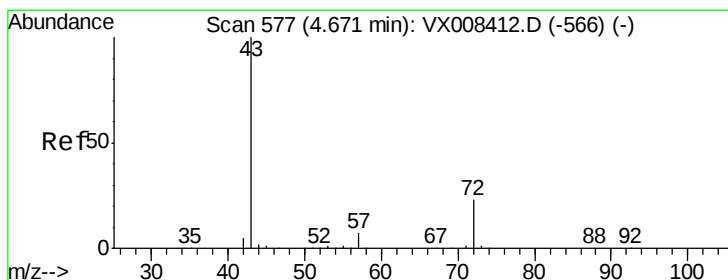
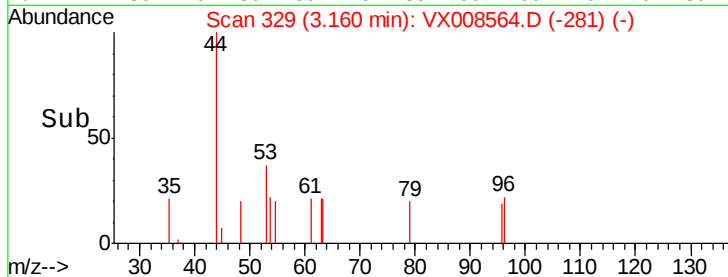
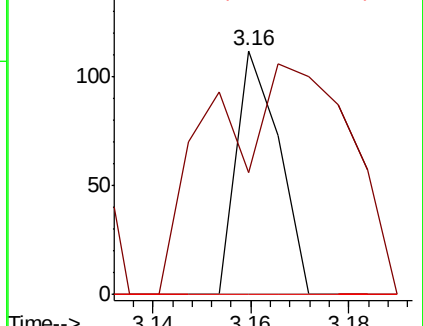
98 0.0 50.9 76.3#



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



#25

2-Butanone

Concen: 1.055 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX008564.D

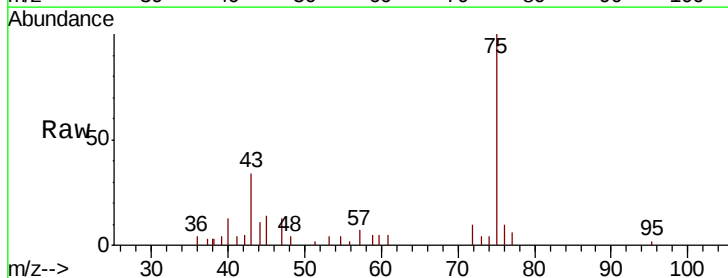
Acq: 01 Apr 2019 13:27

Tgt Ion: 43 Resp: 3009

Ion Ratio Lower Upper

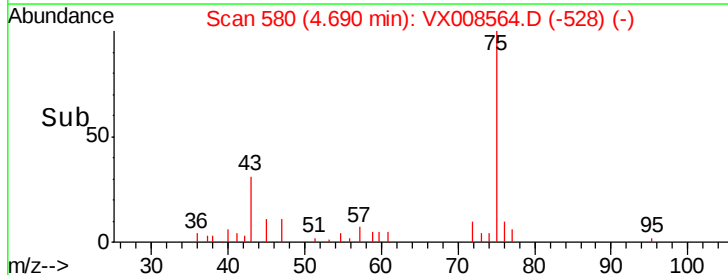
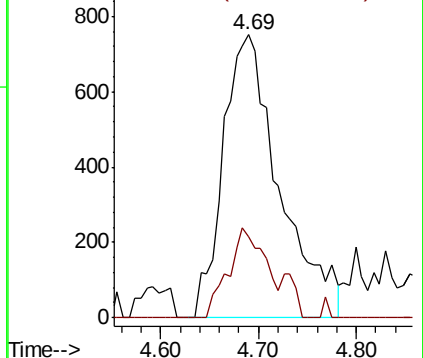
43 100

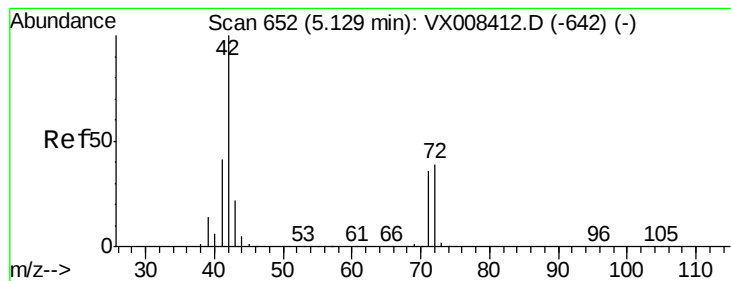
72 28.8 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.858 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

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BP-VPB201R-EB-20190329

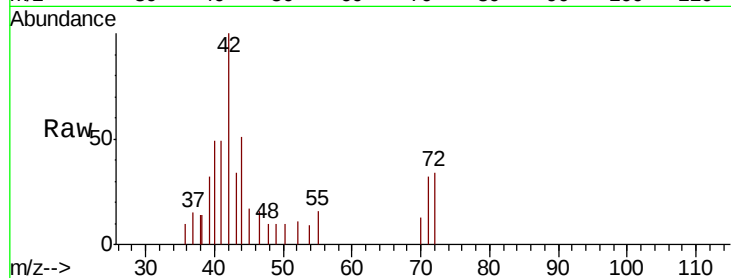
Tot Ion: 42 Resp: 1614

Ion Ratio Lower Upper

42 100

72 16.0 31.4 47.2#

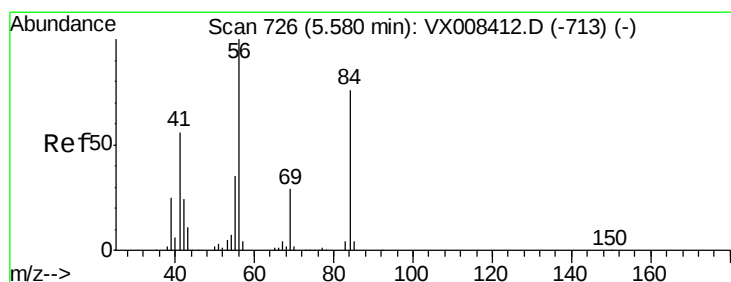
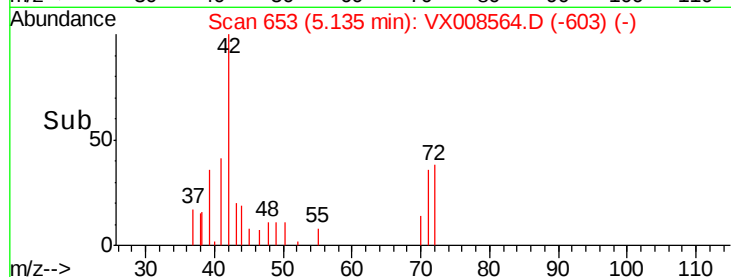
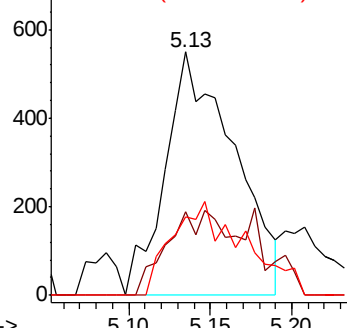
71 40.5 29.4 44.2



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: 0.983 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

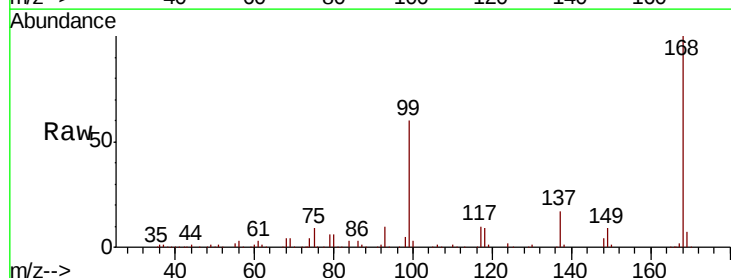
Tgt Ion: 56 Resp: 5363

Ion Ratio Lower Upper

56 100

69 176.4 23.2 34.8#

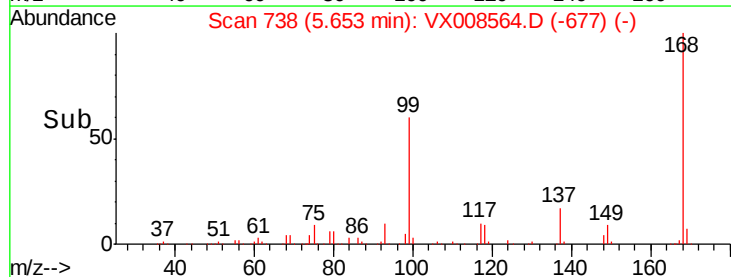
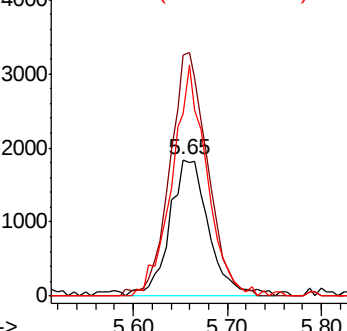
84 133.9 60.7 91.1#

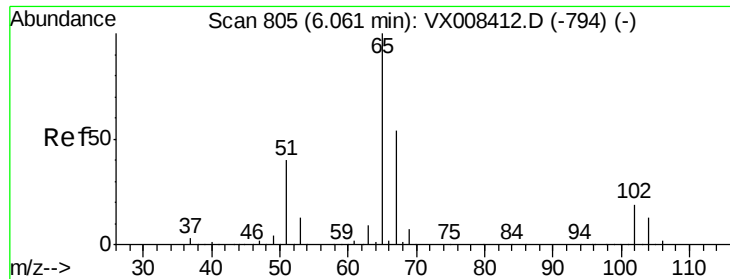


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

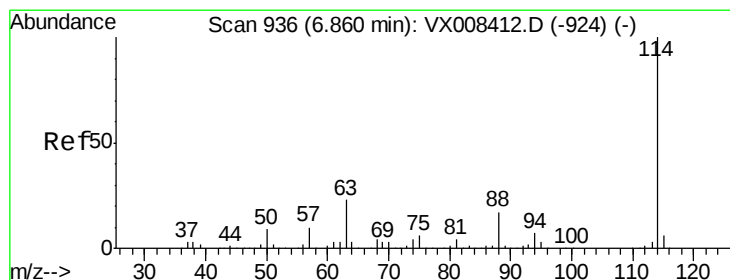
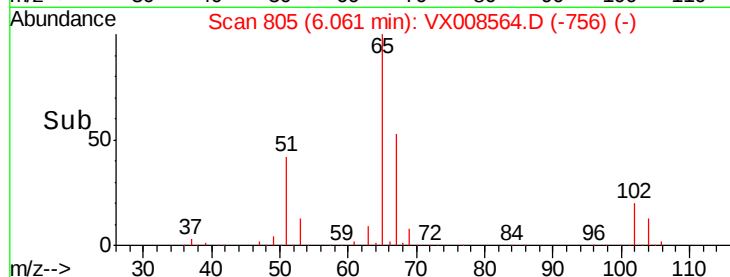
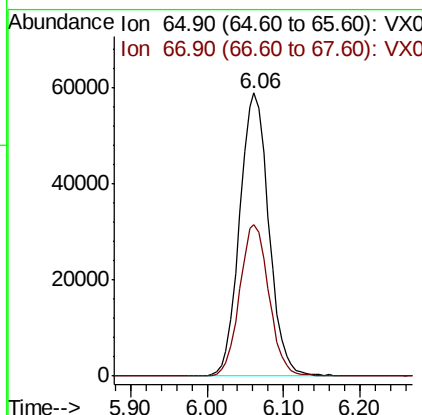
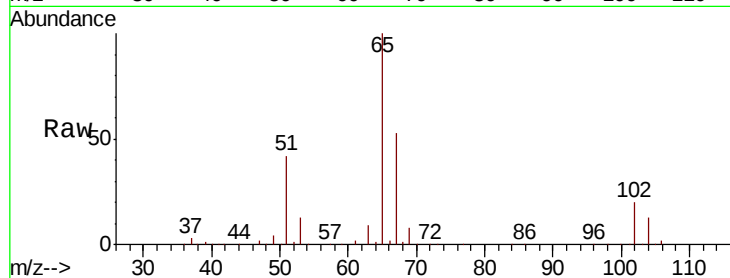




#33
 1,2-Dichloroethane-d4
 Concen: 45.837 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

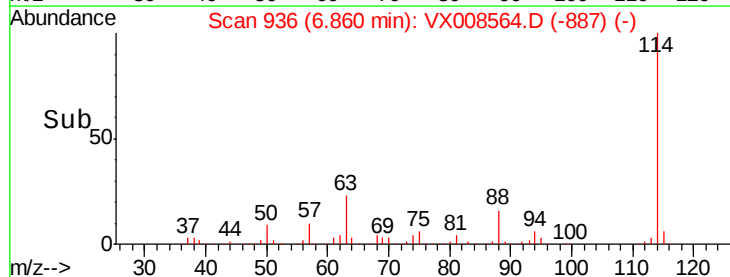
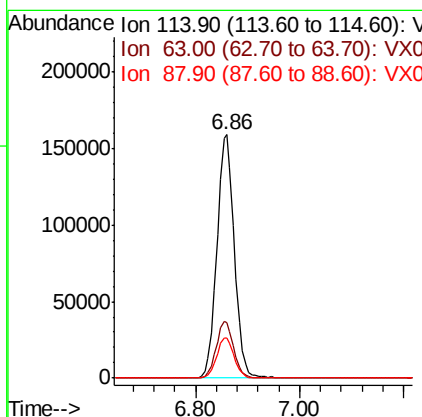
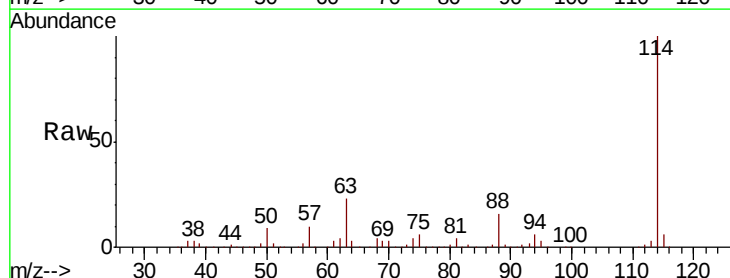
Instrument :
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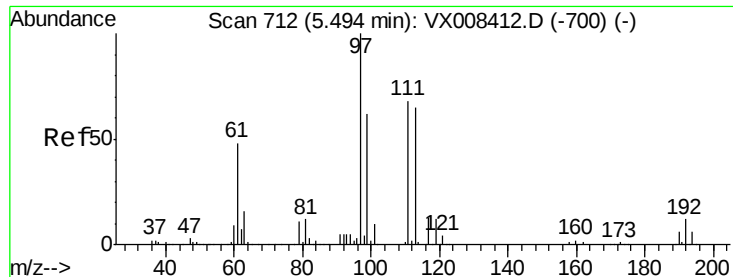
Tot Ion: 65 Resp: 156074
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

Tgt Ion: 114 Resp: 376358
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.4
 88 16.4 0.0 33.2

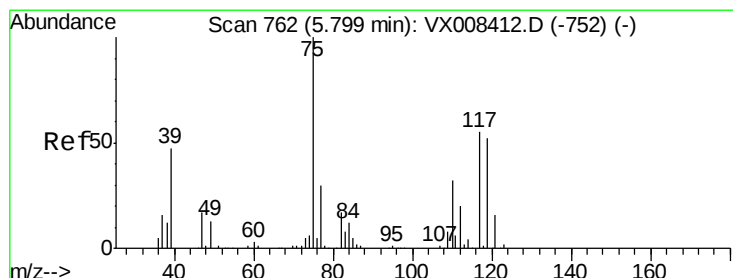
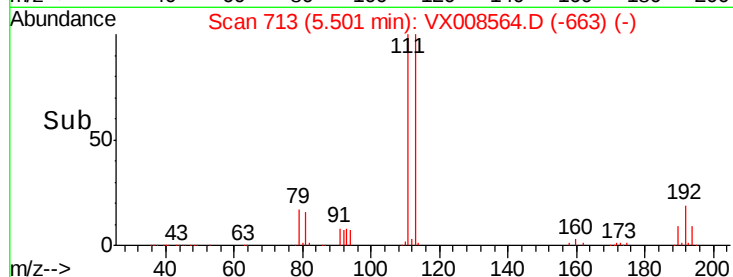
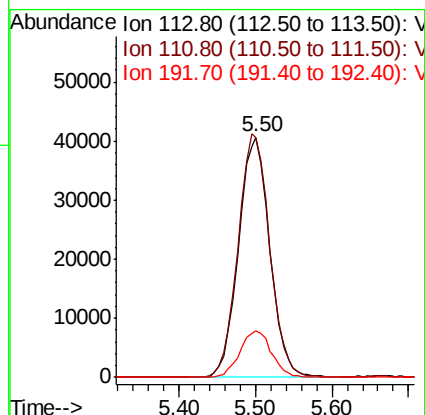
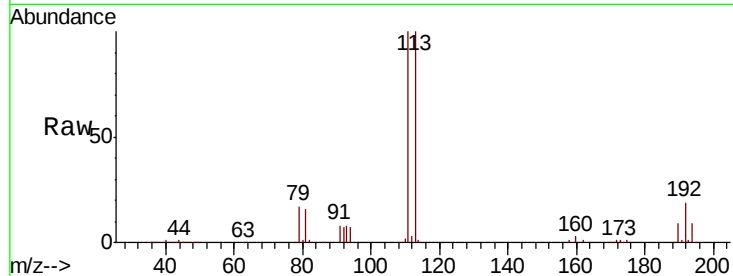




#35
 Dibromofluoromethane
 Concen: 46.902 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

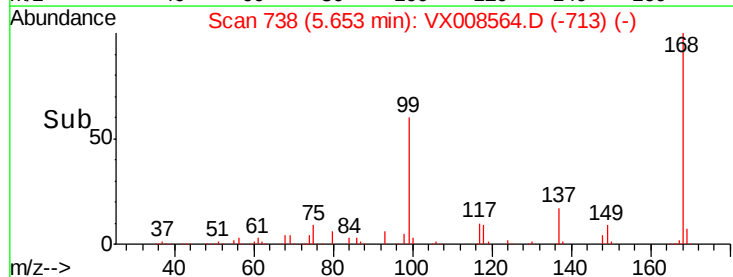
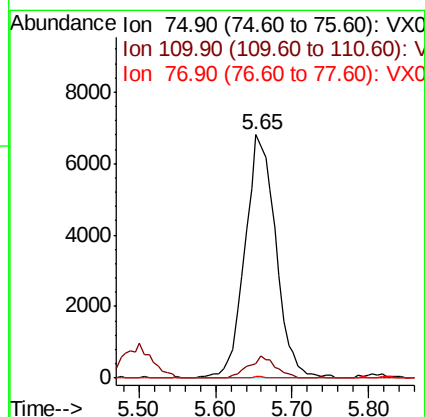
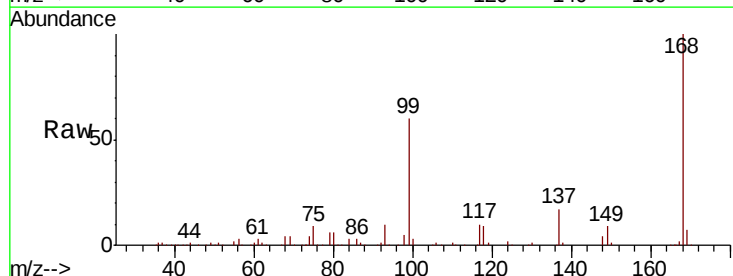
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201R-EB-20190329

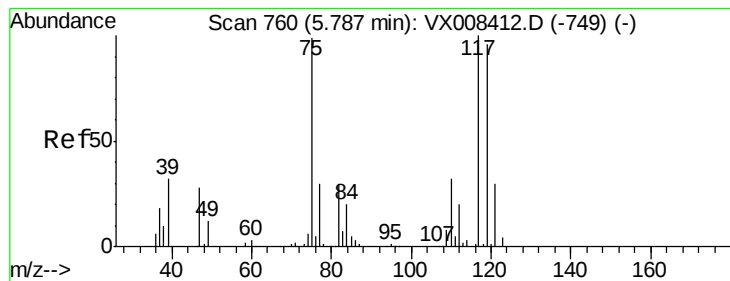
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.0	124.4
192	19.7	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.771 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.6	49.7#
77	0.2	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.634 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201R-EB-20190329

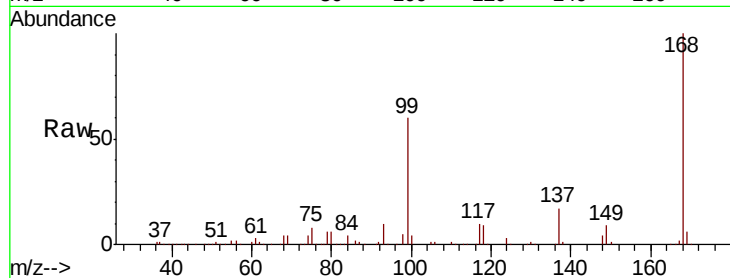
Tot Ion:117 Resp: 22216

Ion Ratio Lower Upper

117 100

119 5.0 76.7 115.1#

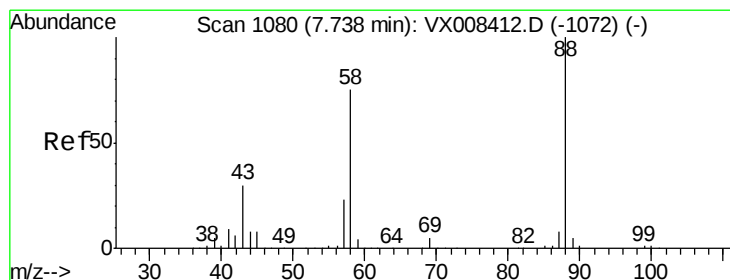
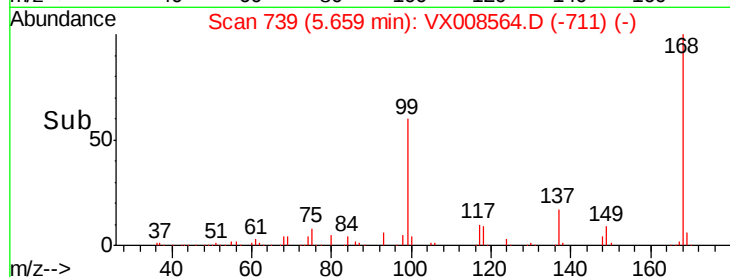
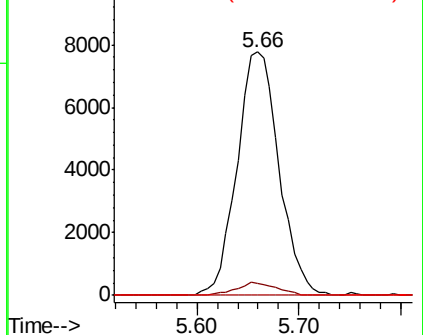
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 0.230 ug/l

RT: 7.53 min Scan# 1046

Delta R.T. -0.21 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

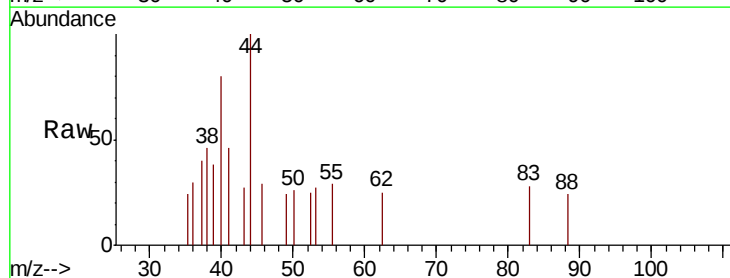
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 28.6 43.0#

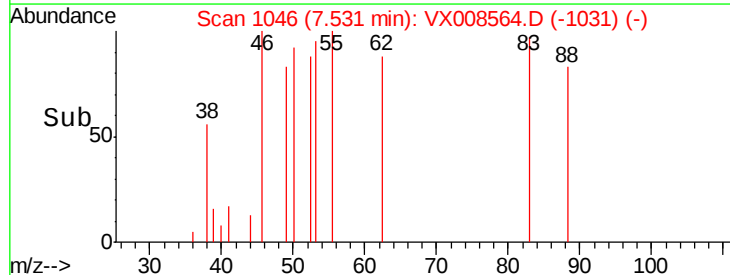
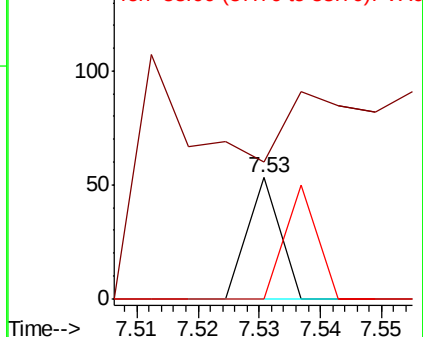
58 94.7 63.0 94.4#

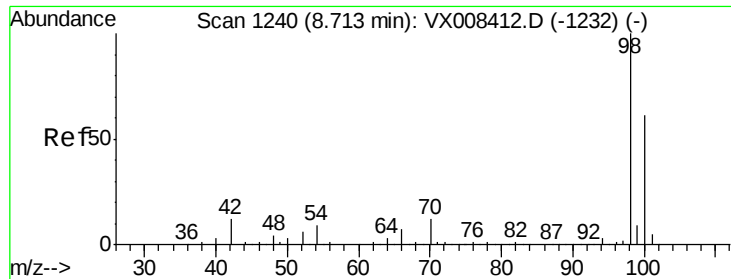


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

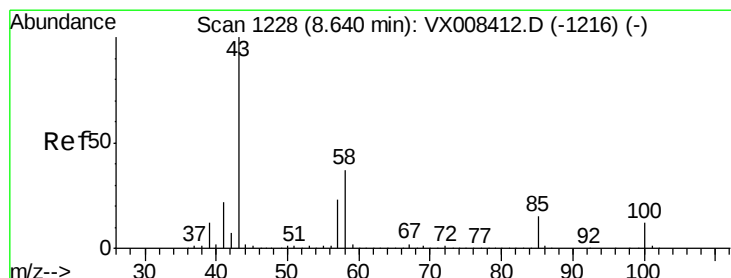
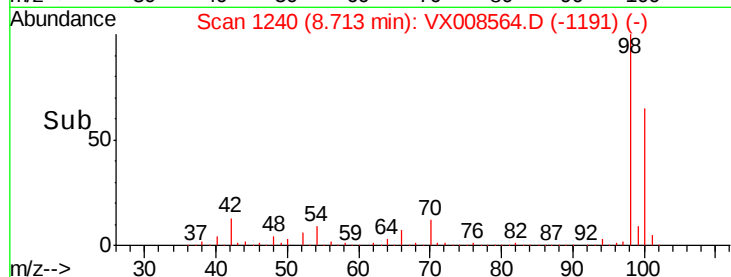
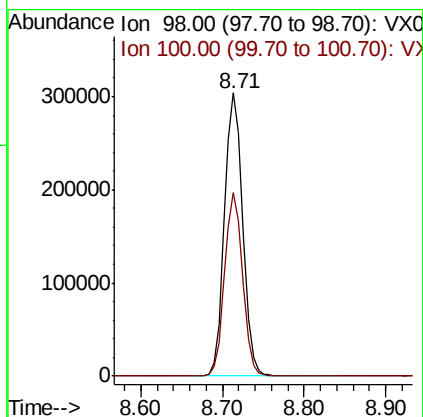
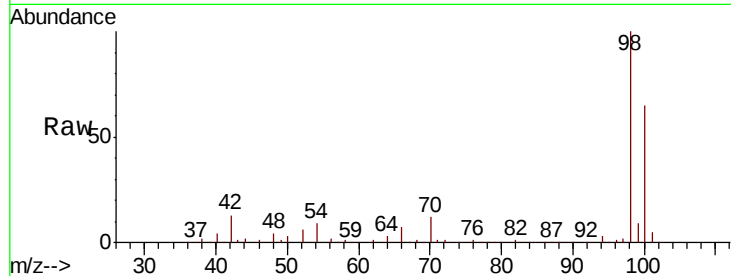




#50
Toluene-d8
Concen: 47.673 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008564.D
Acq: 01 Apr 2019 13:27

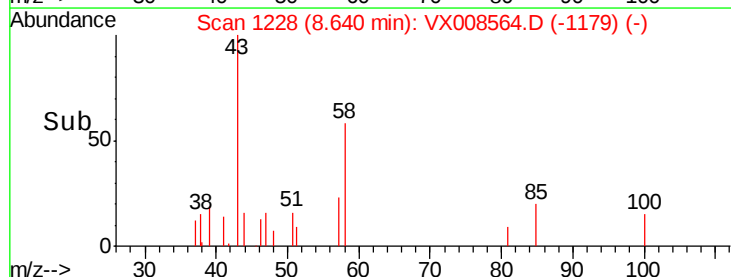
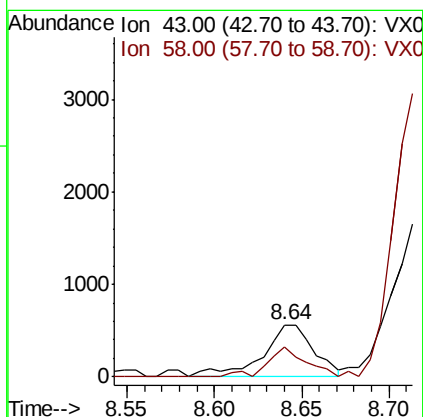
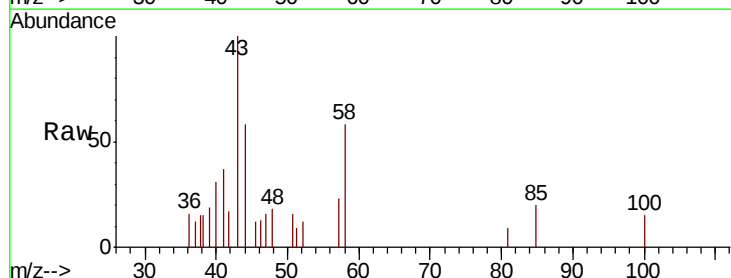
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201R-EB-20190329

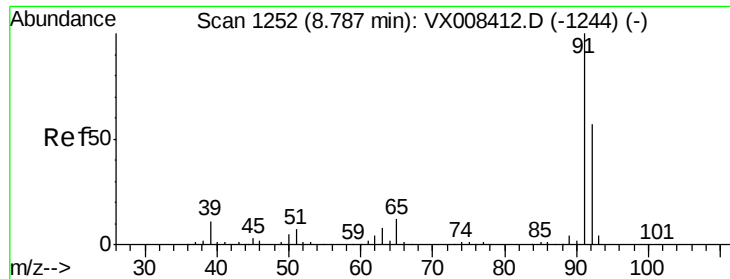
Tot Ion: 98 Resp: 467798
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.215 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX008564.D
Acq: 01 Apr 2019 13:27

Tgt Ion: 43 Resp: 1161
Ion Ratio Lower Upper
43 100
58 42.2 29.8 44.8





#52

Toluene

Concen: 0.359 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

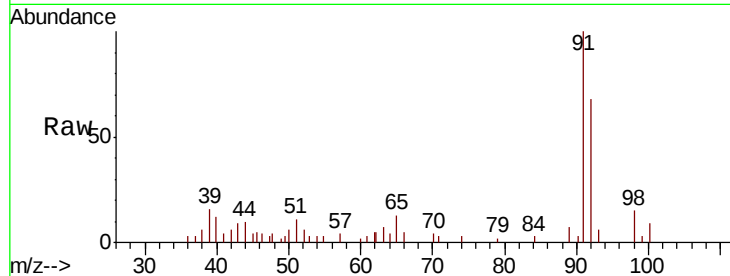
BP-VPB201R-EB-20190329

Tot Ion: 92 Resp: 2576

Ion Ratio Lower Upper

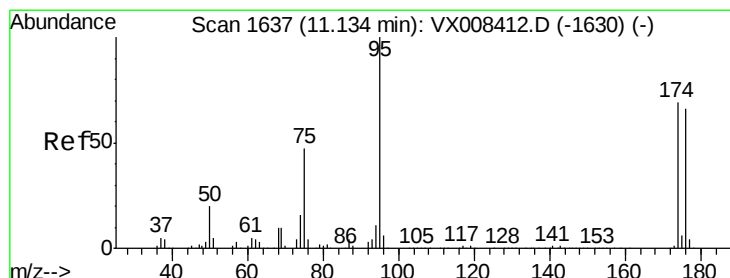
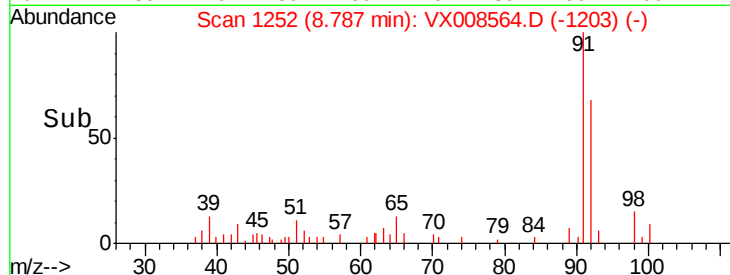
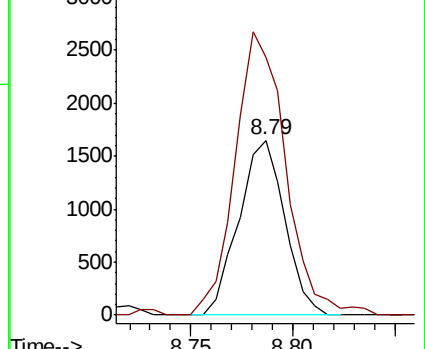
92 100

91 178.3 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 41.938 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008564.D

Acq: 01 Apr 2019 13:27

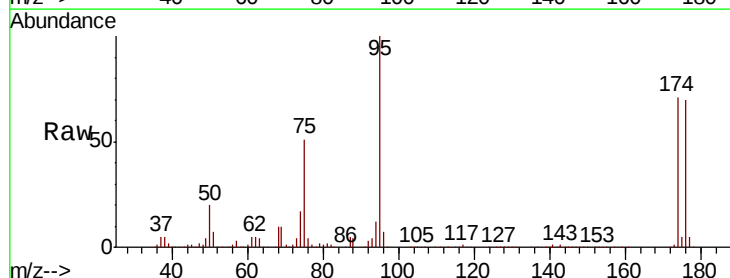
Tgt Ion: 95 Resp: 152496

Ion Ratio Lower Upper

95 100

174 74.6 0.0 147.2

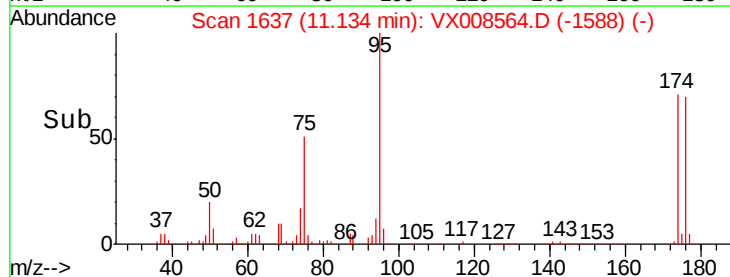
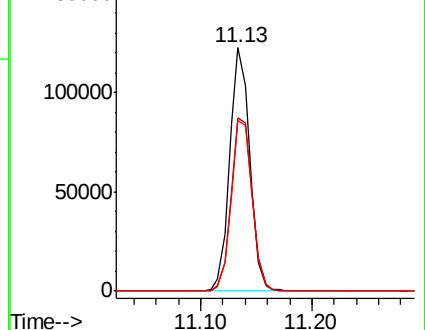
176 73.2 0.0 142.4

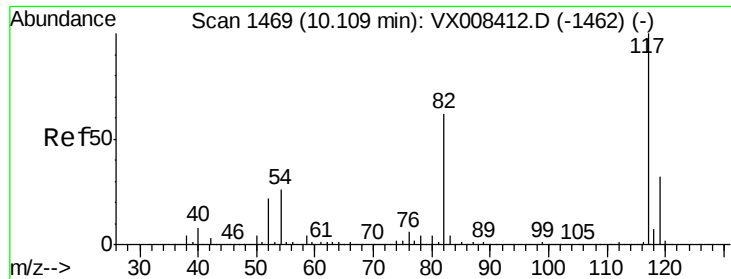


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

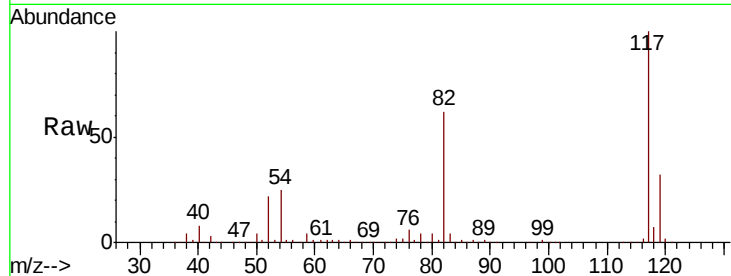




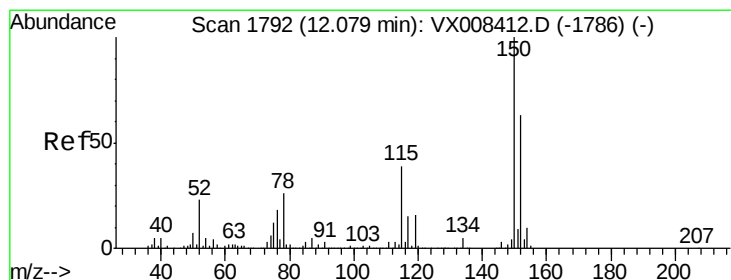
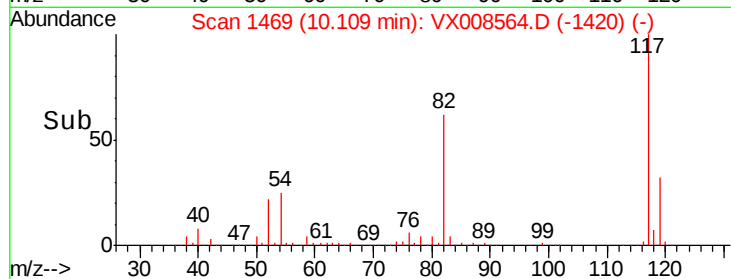
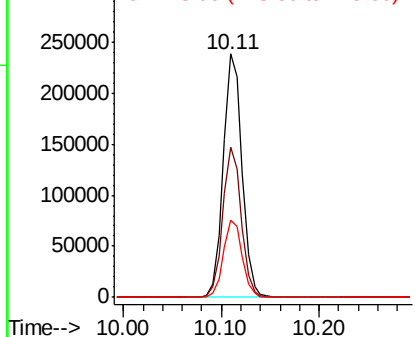
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008564.D
Acq: 01 Apr 2019 13:27

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201R-EB-20190329

Tot Ion:117 Resp: 316724
Ion Ratio Lower Upper
117 100
82 61.5 49.4 74.2
119 31.8 25.4 38.0

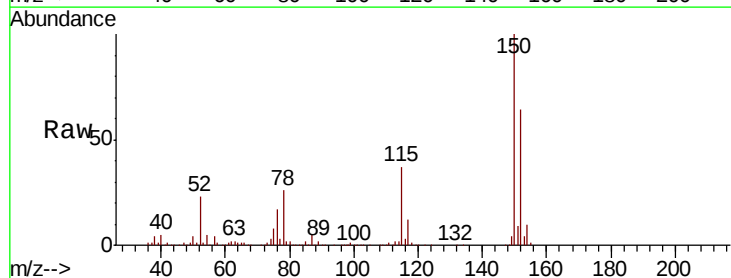


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

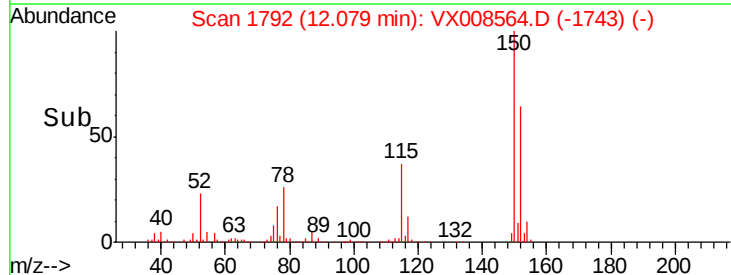
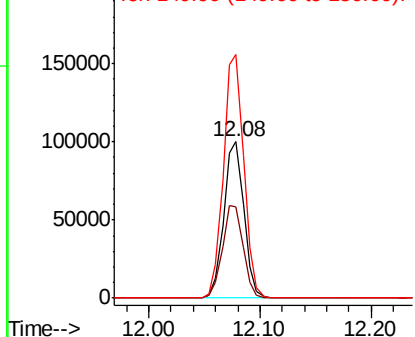


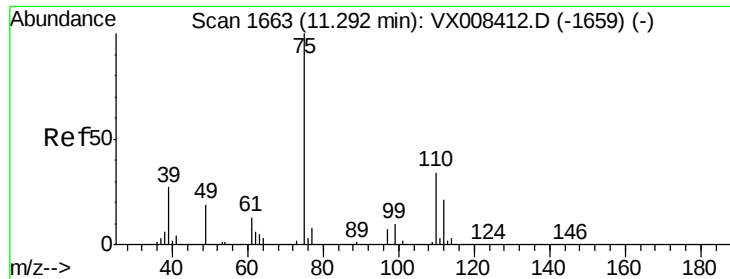
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008564.D
Acq: 01 Apr 2019 13:27

Tgt Ion:152 Resp: 124587
Ion Ratio Lower Upper
152 100
115 61.0 43.5 130.5
150 158.1 0.0 348.8



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

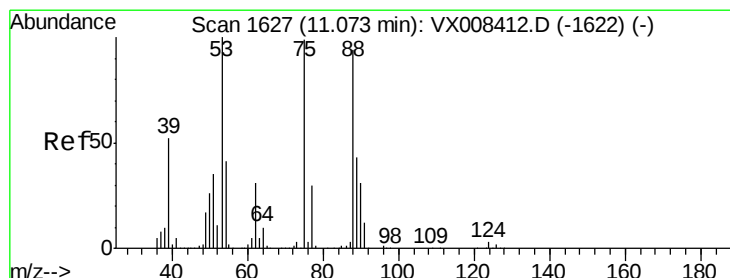
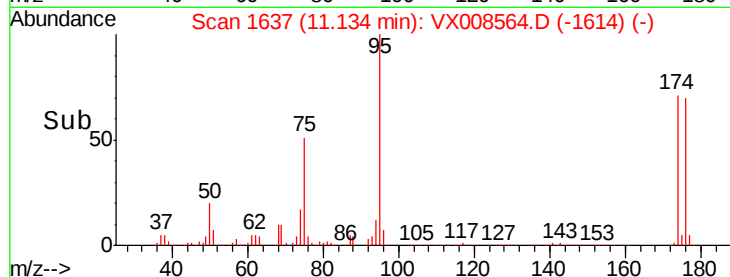
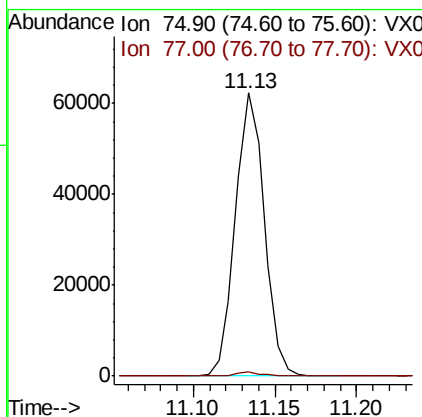
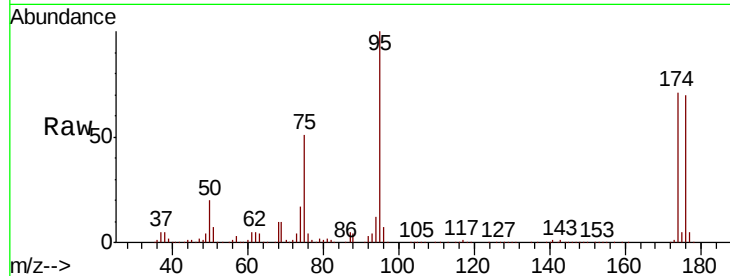




#76
 1,2,3-Trichloropropane
 Concen: 20.907 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201R-EB-20190329

Tot Ion: 75 Resp: 77436
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.9 65.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.961 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008564.D
 Acq: 01 Apr 2019 13:27

Tgt Ion: 75 Resp: 77436
 Ion Ratio Lower Upper
 75 100
 53 0.1 82.1 123.1#
 89 0.0 34.6 52.0#

