

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011196.D
 Acq On : 30 Jul 2019 15:43
 Operator : JC/SP
 Sample : K4043-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-378-380

Quant Time: Jul 31 08:39:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	215871	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	310906	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	278292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132049	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	106644	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
35) Dibromofluoromethane	5.50	113	92444	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
50) Toluene-d8	8.71	98	364114	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
62) 4-Bromofluorobenzene	11.13	95	120467	44.28	ug/l	0.00
Spiked Amount			Recovery	=	88.56%	

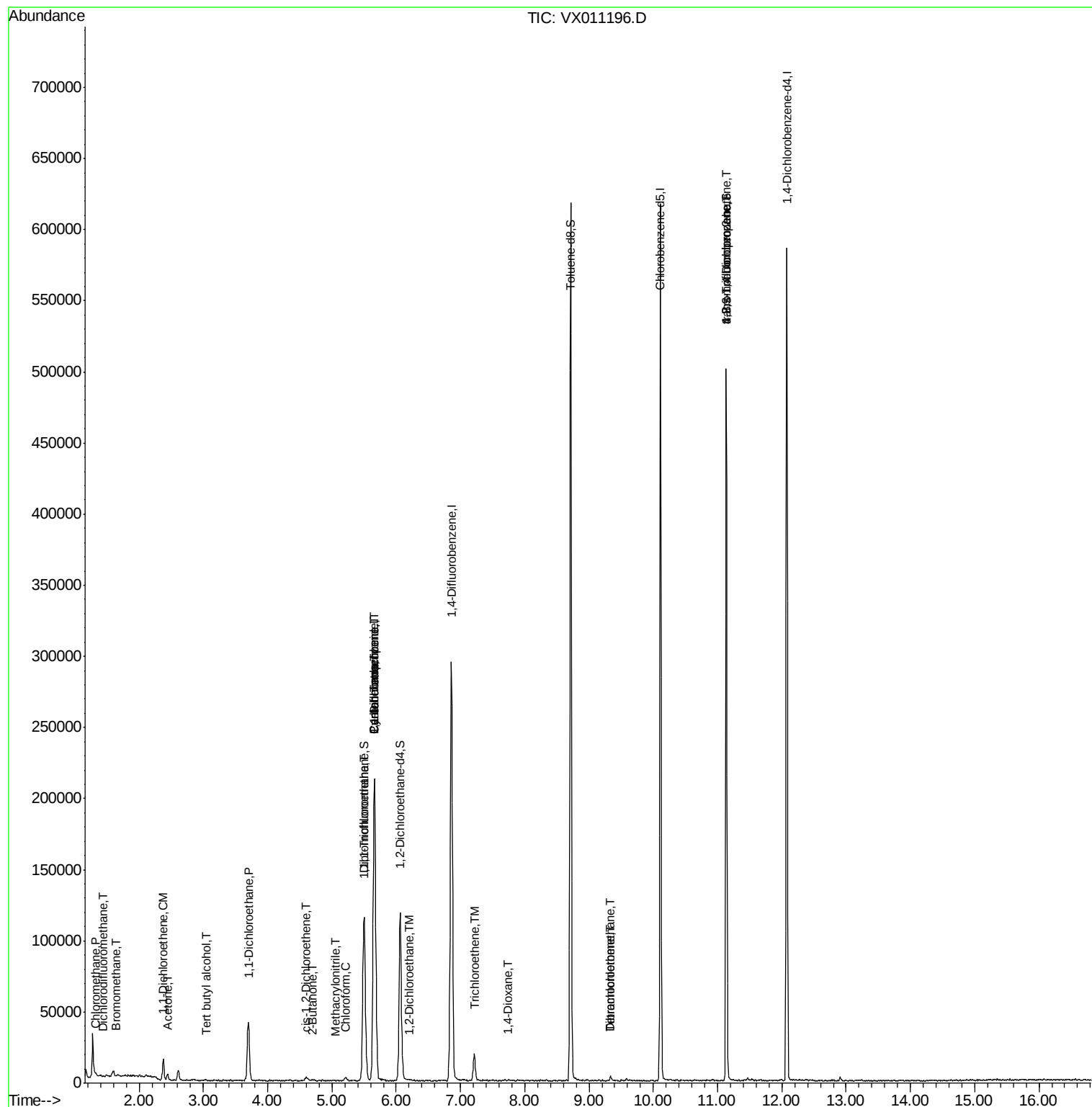
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	40	0.564	ug/l #	43
3) Chloromethane	1.33	50	897	0.452	ug/l	94
5) Bromomethane	1.65	94	611	0.535	ug/l #	75
11) Tert butyl alcohol	3.04	59	746	1.395	ug/l #	65
12) 1,1-Dichloroethene	2.37	96	5664	2.946	ug/l	94
16) Acetone	2.45	43	4571	4.407	ug/l	97
24) 1,1-Dichloroethane	3.70	63	45214	13.217	ug/l	98
25) 2-Butanone	4.70	43	1185	0.796	ug/l #	76
27) cis-1,2-Dichloroethene	4.60	96	1509	0.639	ug/l	98
30) Chloroform	5.21	83	2547	0.689	ug/l #	76
31) Cyclohexane	5.67	56	4392	1.409	ug/l #	15
32) 1,1,1-Trichloroethane	5.49	97	3882	1.213	ug/l #	45
36) 1,1-Dichloropropene	5.66	75	14633	5.730	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20833	7.828	ug/l #	17
41) Methacrylonitrile	5.05	41	423	0.285	ug/l #	23
42) 1,2-Dichloroethane	6.20	62	703	0.258	ug/l #	73
44) Trichloroethene	7.21	130	7516	3.246	ug/l	100
49) 1,4-Dioxane	7.74	88	434	7.407	ug/l #	44
60) Dibromochloromethane	9.33	129	590	2.758	ug/l #	11
64) Tetrachloroethene	9.34	164	543	0.248	ug/l #	75
76) 1,2,3-Trichloropropane	11.13	75	60681	25.465	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	60681	63.362	ug/l #	11

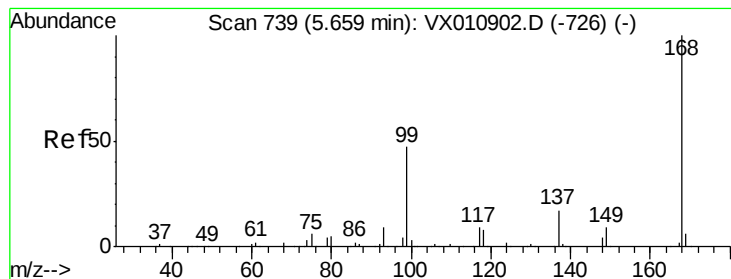
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
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BP-VPB203-GW-378-380

Quant Time: Jul 31 08:39:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

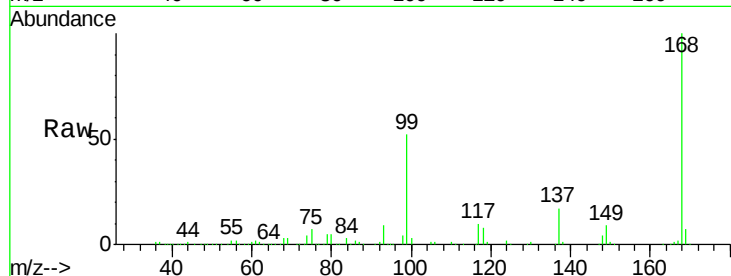
BP-VPB203-GW-378-380

Tgt Ion: 168 Resp: 215871

Ion Ratio Lower Upper

168 100

99 51.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

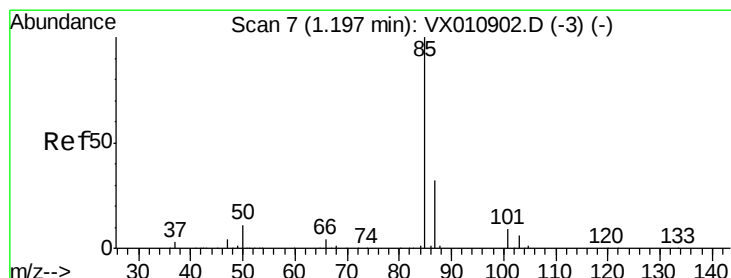
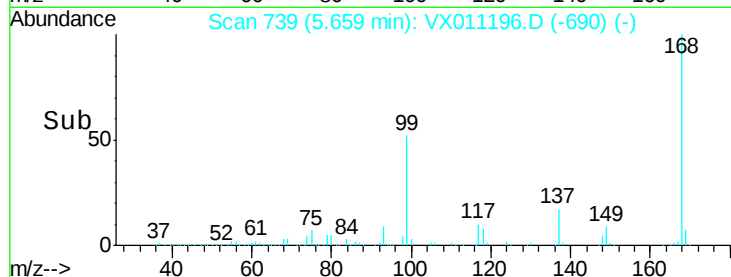
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.564 ug/l

RT: 1.43 min Scan# 45

Delta R.T. 0.23 min

Lab File: VX011196.D

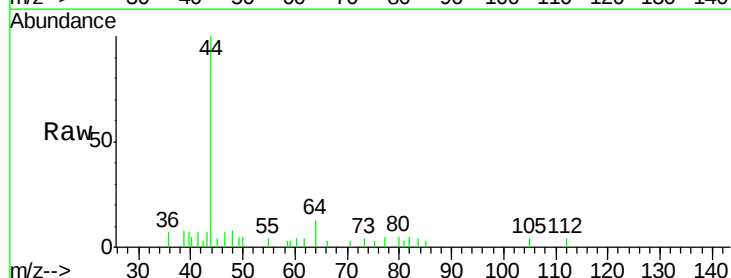
Acq: 30 Jul 2019 15:43

Tgt Ion: 85 Resp: 40

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.43

60

50

40

30

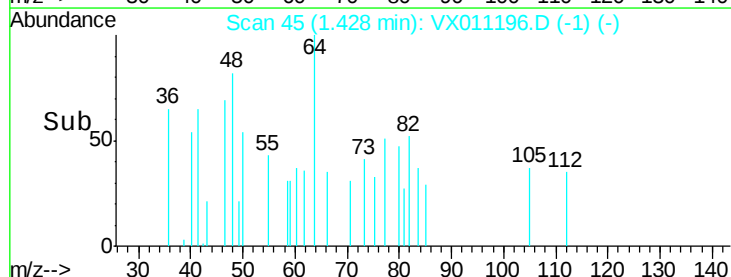
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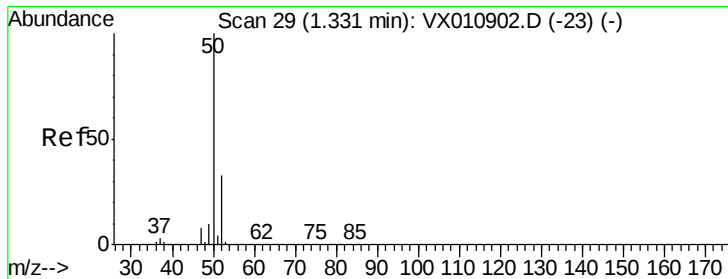
10

0

Time-->

1.42 1.44





#3

Chloromethane

Concen: 0.452 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

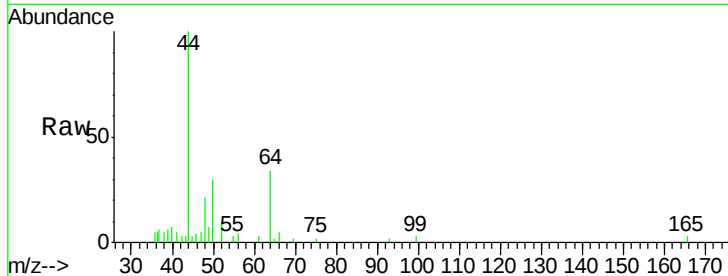
BP-VPB203-GW-378-380

Tgt Ion: 50 Resp: 897

Ion Ratio Lower Upper

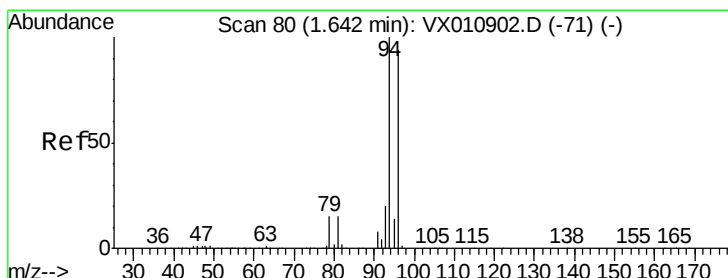
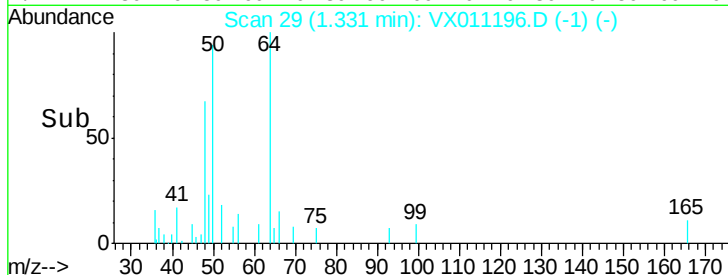
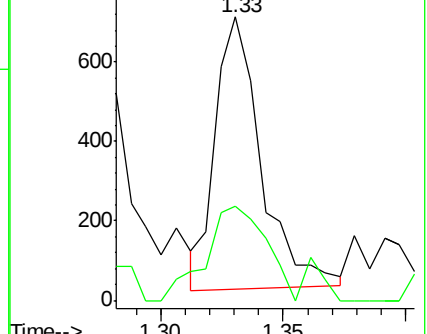
50 100

52 36.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.535 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011196.D

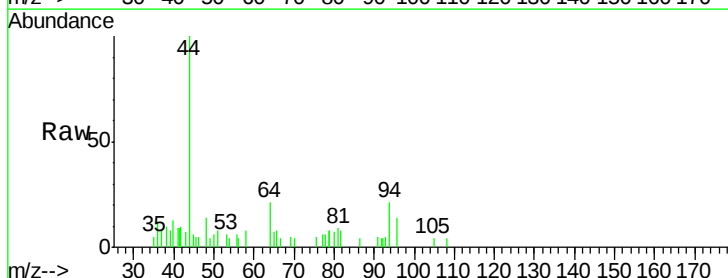
Acq: 30 Jul 2019 15:43

Tgt Ion: 94 Resp: 611

Ion Ratio Lower Upper

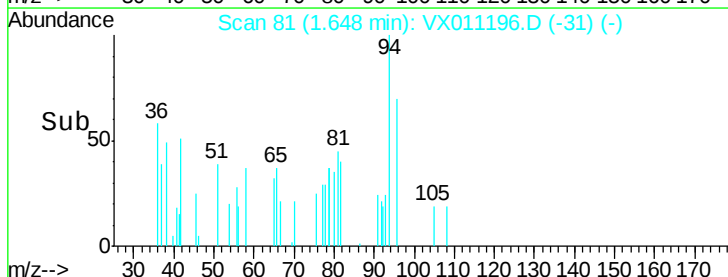
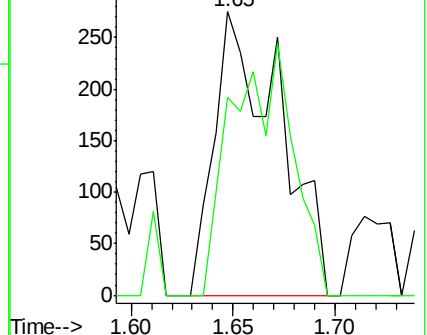
94 100

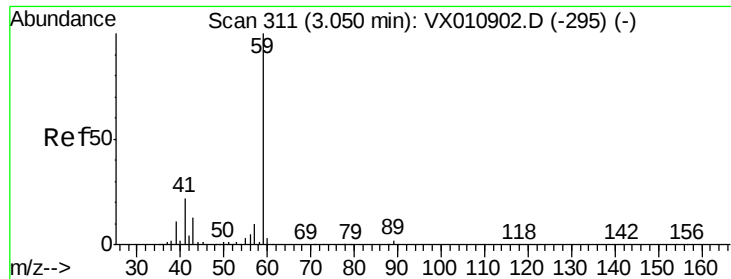
96 69.8 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

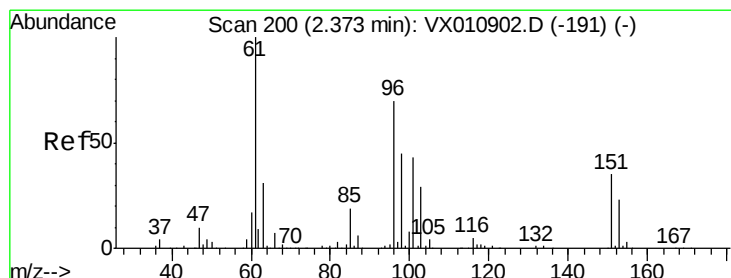
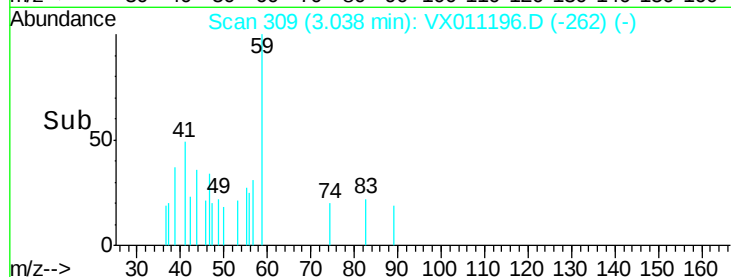
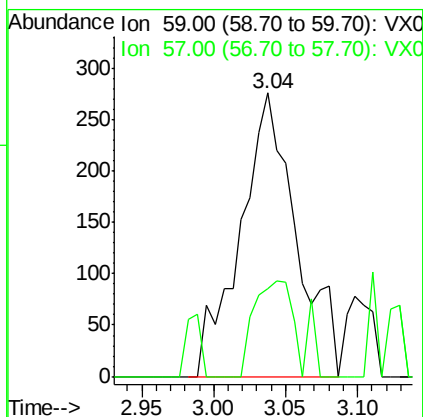
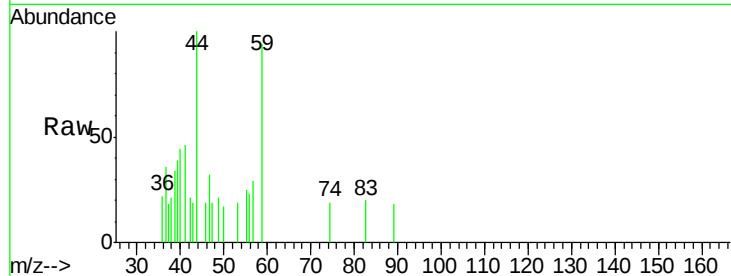




#11
Tert butyl alcohol
Concen: 1.395 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX011196.D
Acq: 30 Jul 2019 15:43

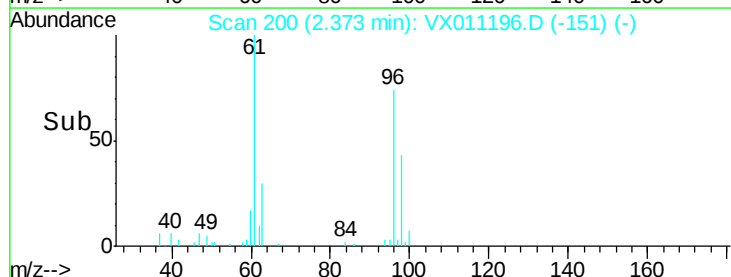
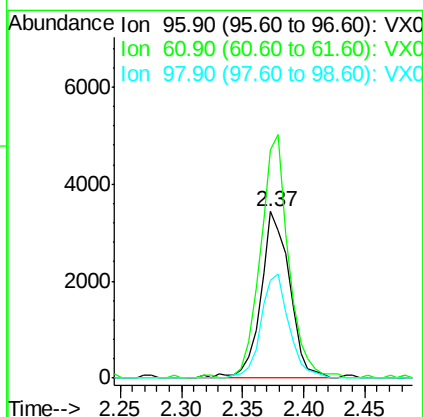
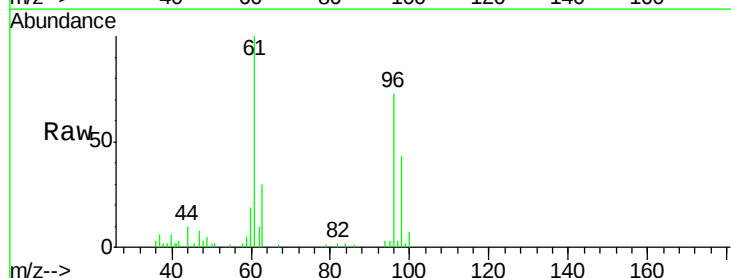
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-378-380

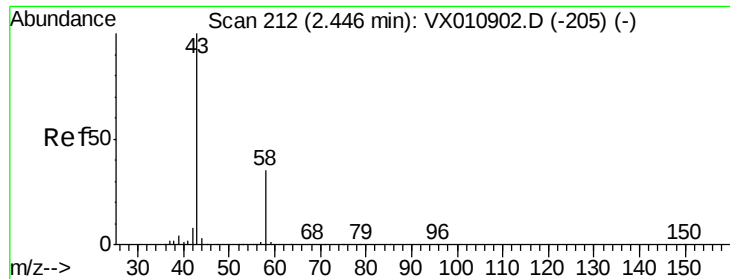
Tgt Ion: 59 Resp: 746
Ion Ratio Lower Upper
59 100
57 22.7 7.9 11.9#



#12
1,1-Dichloroethene
Concen: 2.946 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX011196.D
Acq: 30 Jul 2019 15:43

Tgt Ion: 96 Resp: 5664
Ion Ratio Lower Upper
96 100
61 137.2 115.0 172.4
98 58.4 52.2 78.2





#16

Acetone

Concen: 4.407 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

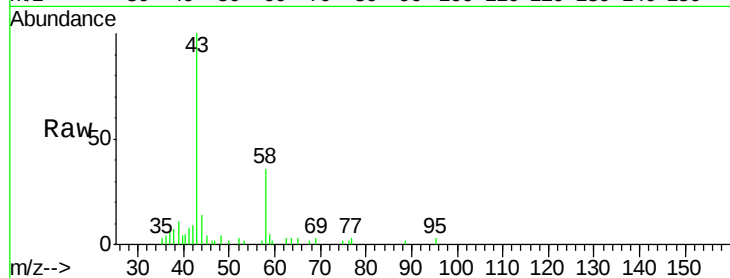
BP-VPB203-GW-378-380

Tgt Ion: 43 Resp: 4571

Ion Ratio Lower Upper

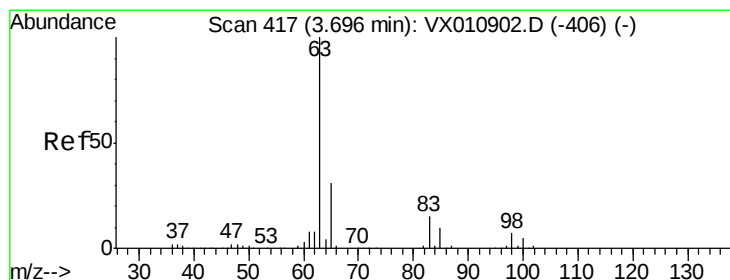
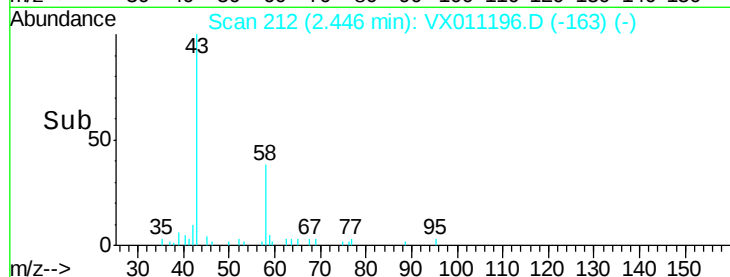
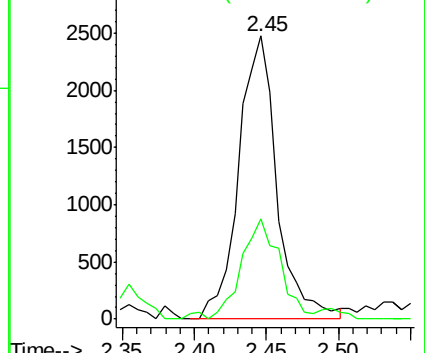
43 100

58 33.1 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#24

1,1-Dichloroethane

Concen: 13.217 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

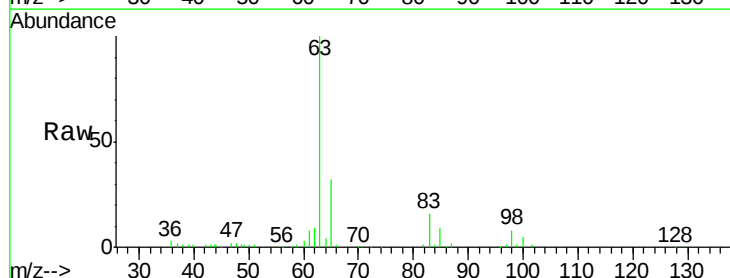
Tgt Ion: 63 Resp: 45214

Ion Ratio Lower Upper

63 100

98 8.0 3.6 10.9

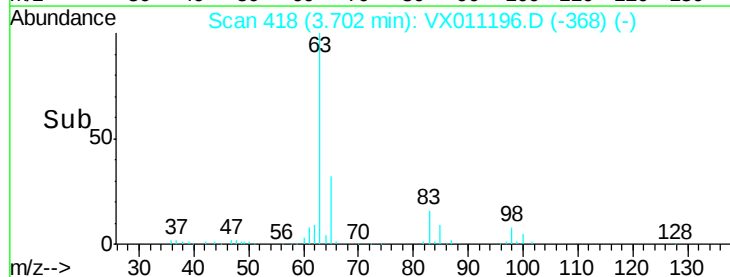
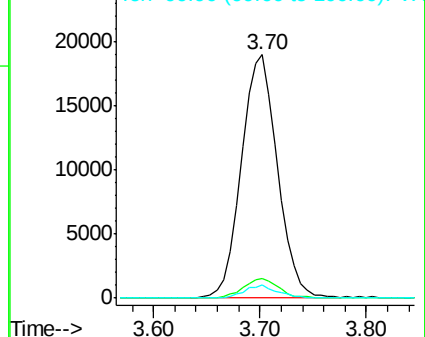
100 5.2 2.4 7.2

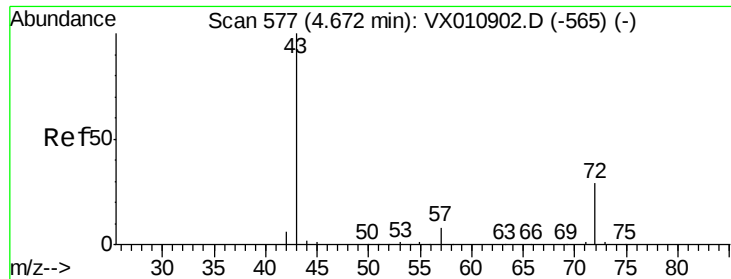


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 0.796 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

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ClientSampleId :

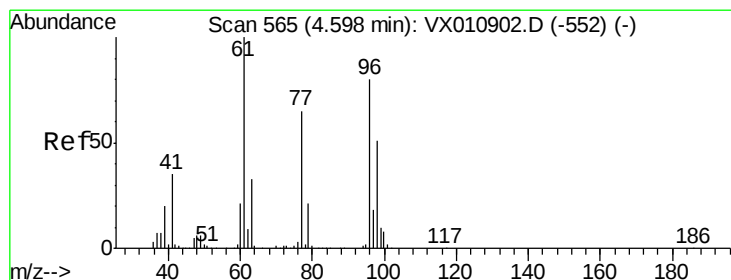
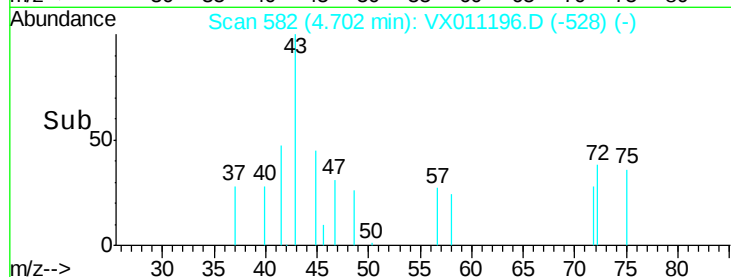
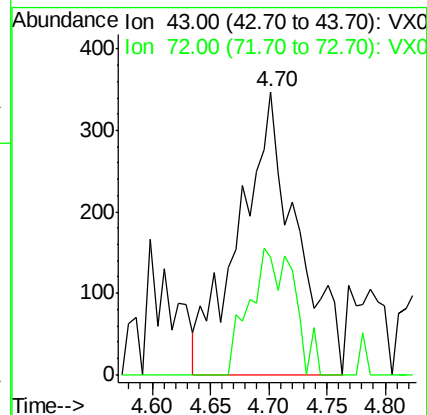
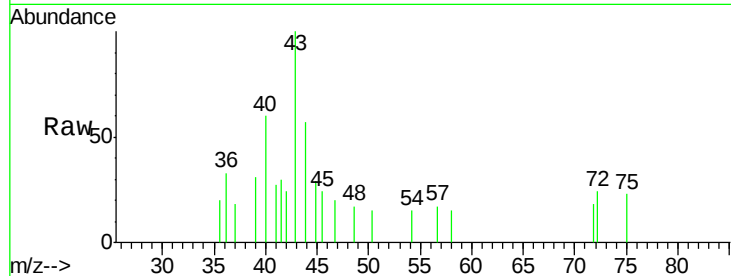
BP-VPB203-GW-378-380

Tgt Ion: 43 Resp: 1185

Ion Ratio Lower Upper

43 100

72 41.7 23.0 34.6#



#27

cis-1,2-Dichloroethene

Concen: 0.639 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

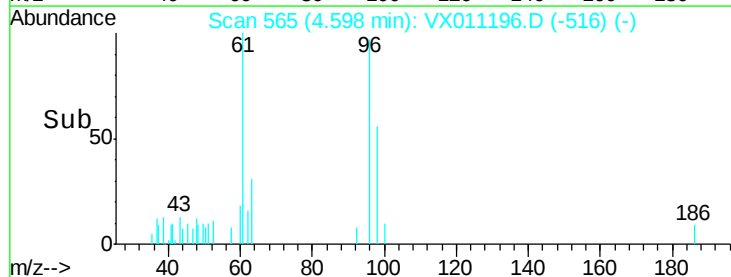
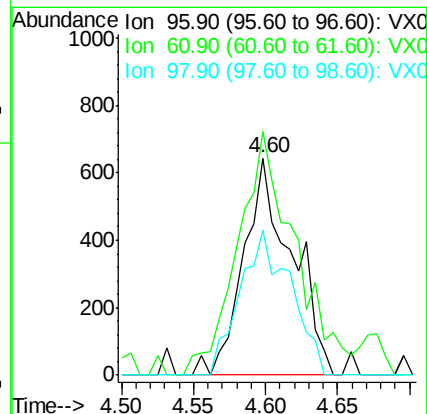
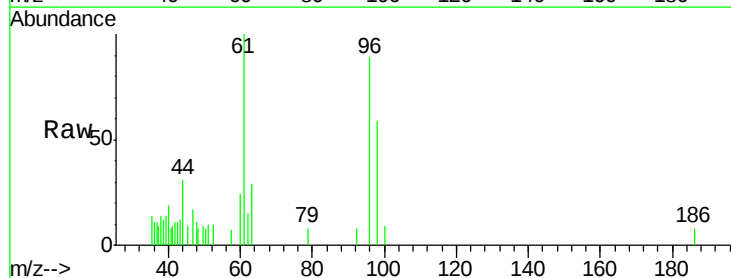
Tgt Ion: 96 Resp: 1509

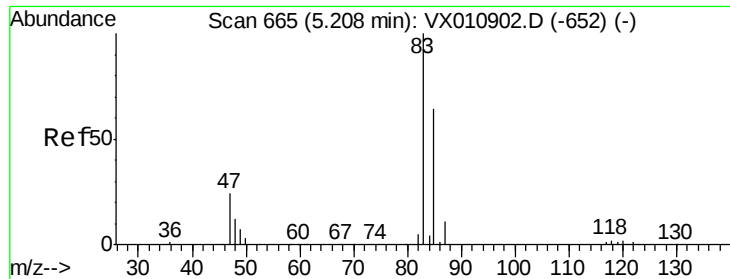
Ion Ratio Lower Upper

96 100

61 132.9 0.0 269.0

98 69.6 0.0 131.4

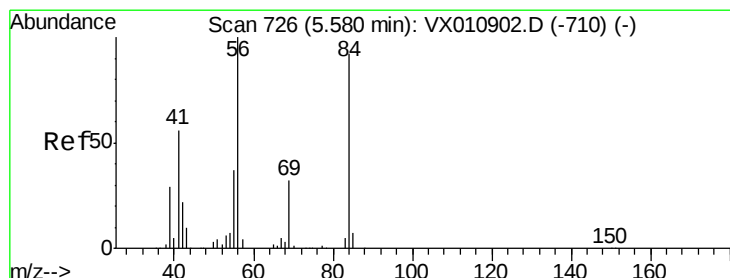
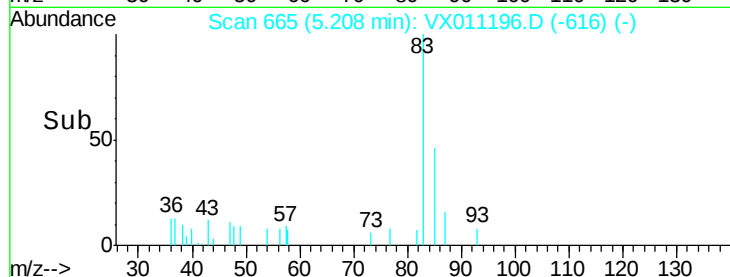
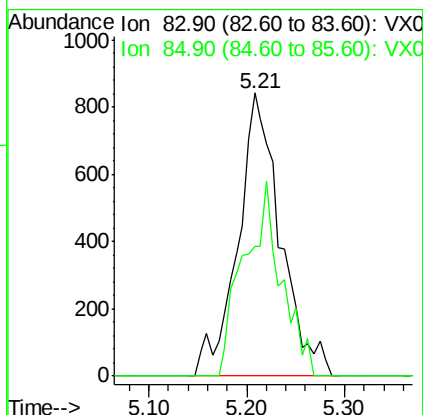
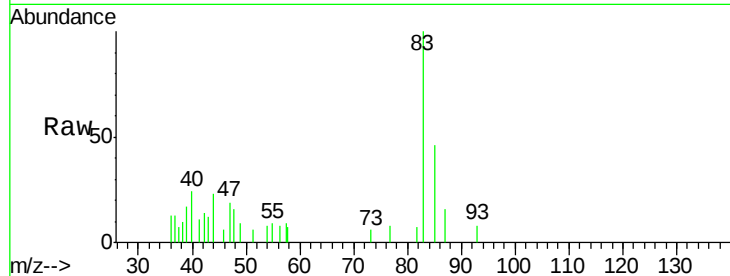




#30
Chloroform
Concen: 0.689 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.00 min
Lab File: VX011196.D
Acq: 30 Jul 2019 15:43

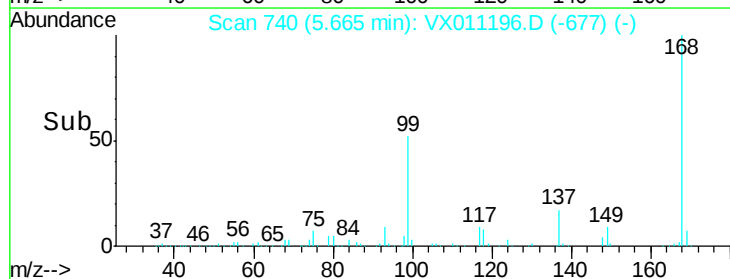
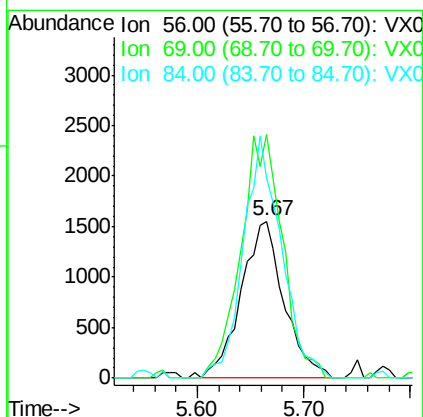
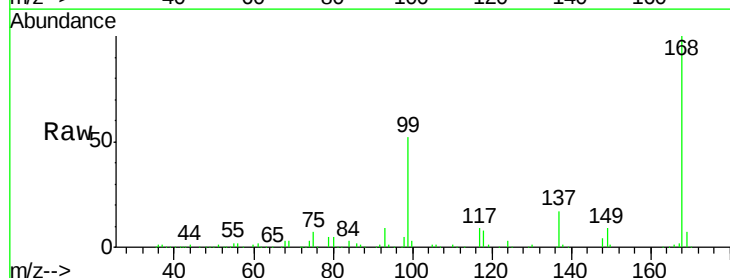
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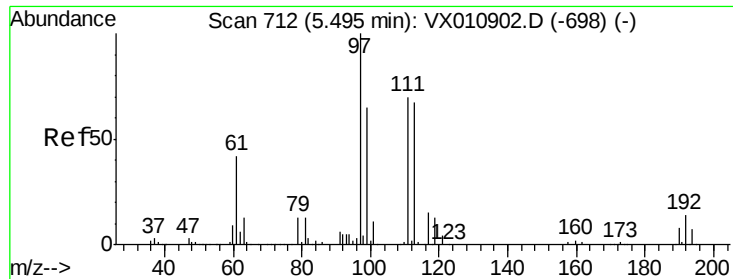
Tgt Ion: 83 Resp: 2547
Ion Ratio Lower Upper
83 100
85 45.7 51.4 77.0#



#31
Cyclohexane
Concen: 1.409 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX011196.D
Acq: 30 Jul 2019 15:43

Tgt Ion: 56 Resp: 4392
Ion Ratio Lower Upper
56 100
69 155.3 25.8 38.8#
84 127.8 73.8 110.6#





#32

1,1,1-Trichloroethane

Concen: 1.213 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-378-380

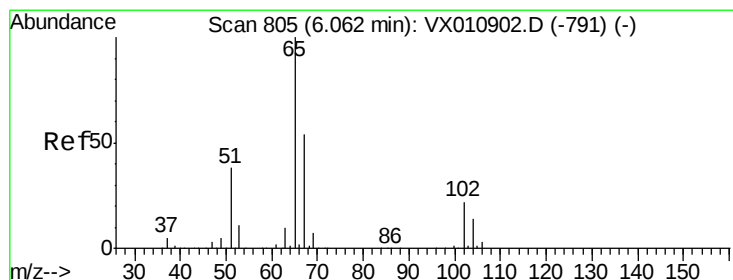
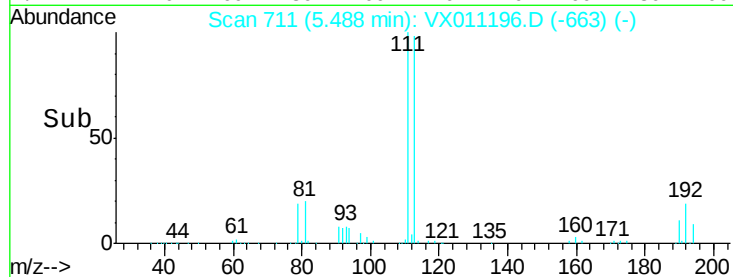
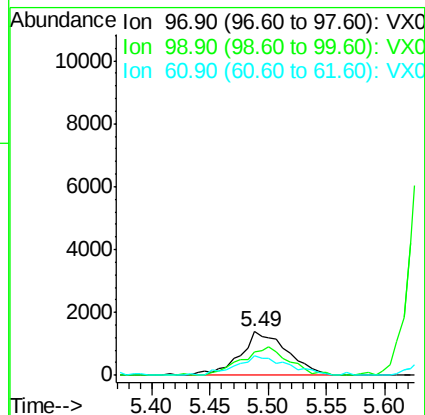
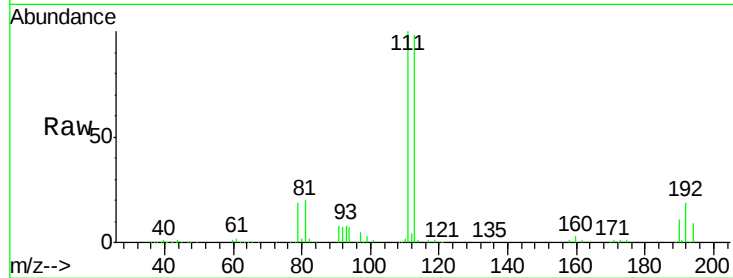
Tgt Ion: 97 Resp: 3882

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

61 48.8 33.0 49.6



#33

1,2-Dichloroethane-d4

Concen: 46.437 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011196.D

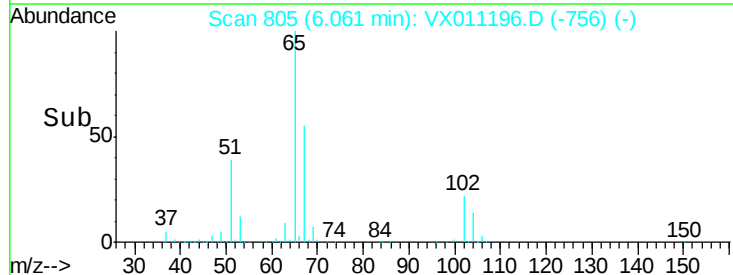
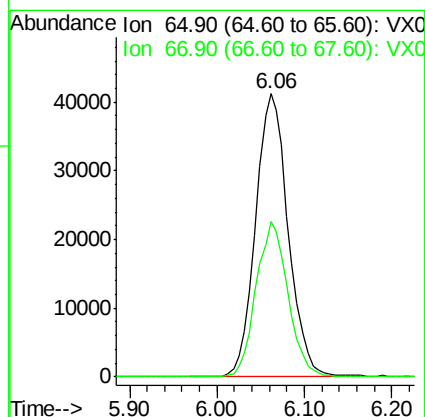
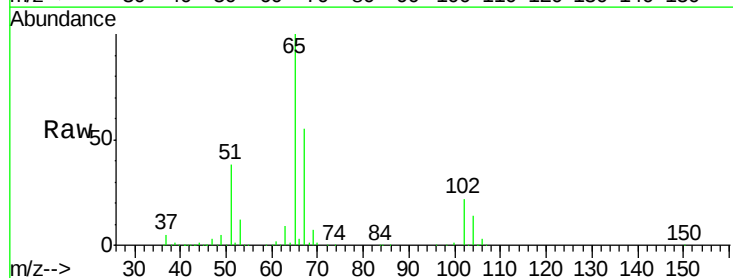
Acq: 30 Jul 2019 15:43

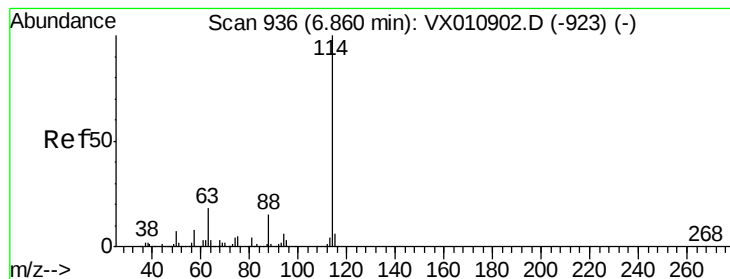
Tgt Ion: 65 Resp: 106644

Ion Ratio Lower Upper

65 100

67 54.0 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-378-380

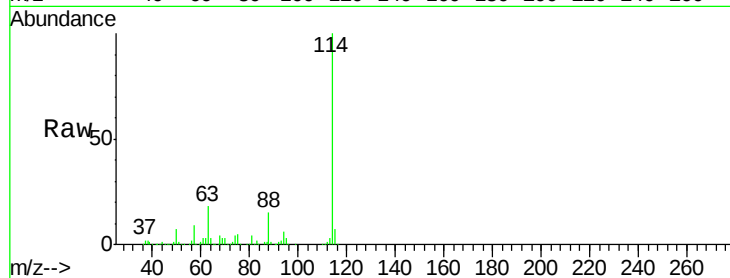
Tgt Ion:114 Resp: 310906

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

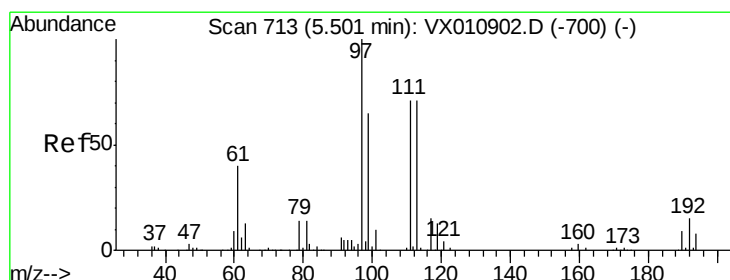
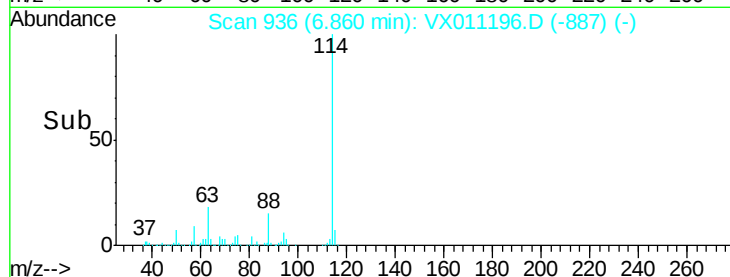
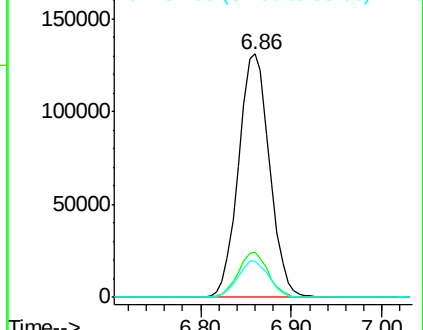
88 14.9 0.0 29.8



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: 46.845 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

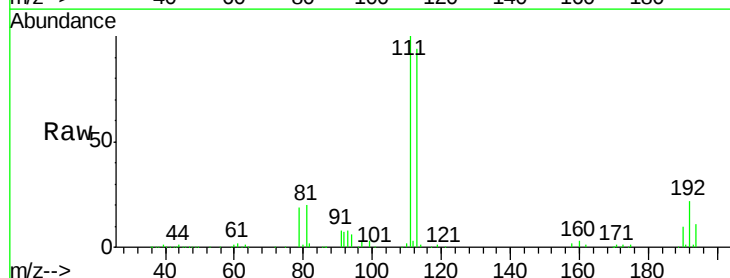
Tgt Ion:113 Resp: 92444

Ion Ratio Lower Upper

113 100

111 103.8 82.3 123.5

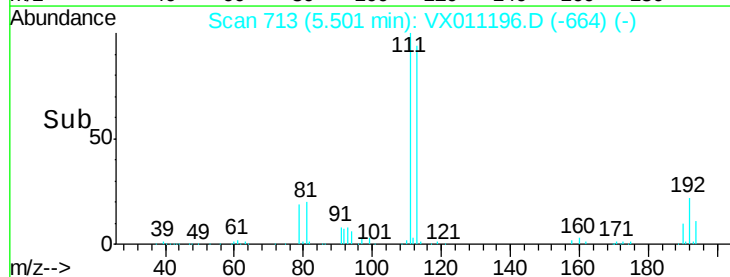
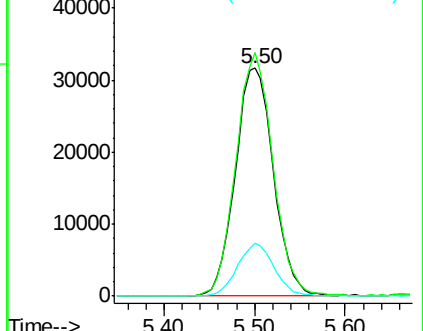
192 22.3 17.4 26.2

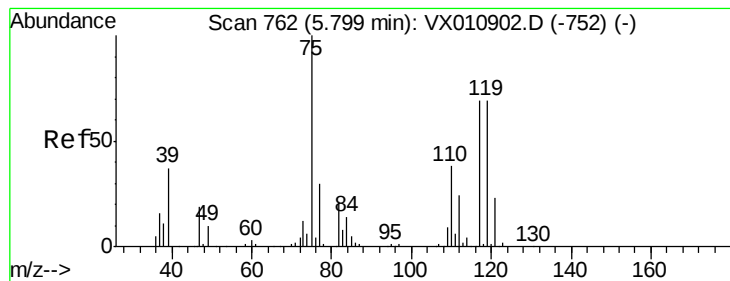


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.730 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-378-380

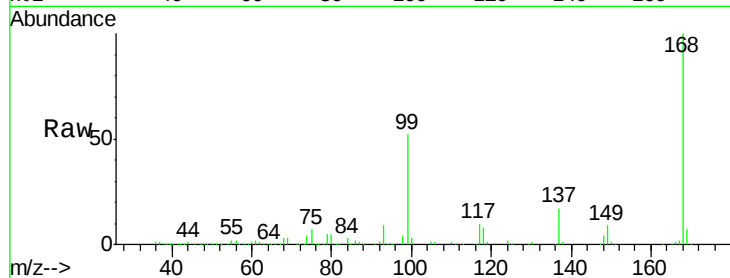
Tgt Ion: 75 Resp: 14633

Ion Ratio Lower Upper

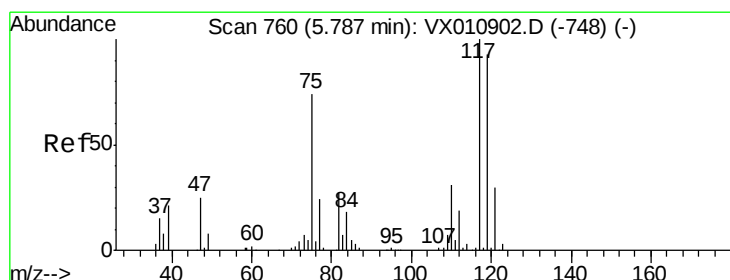
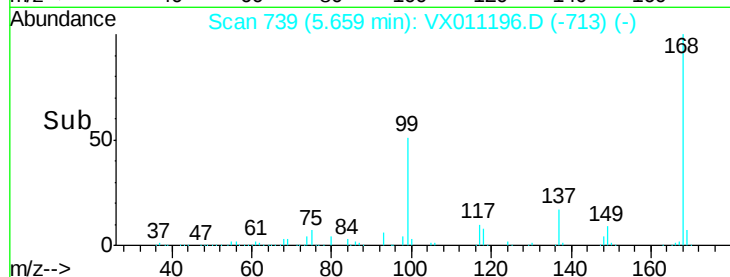
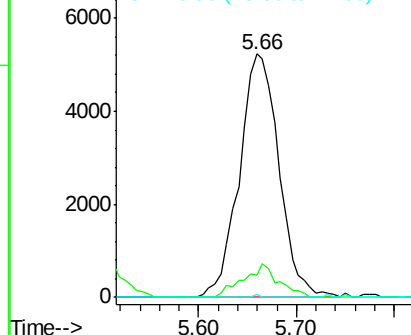
75 100

110 12.4 19.9 59.7#

77 0.2 25.0 37.4#



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: 7.828 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

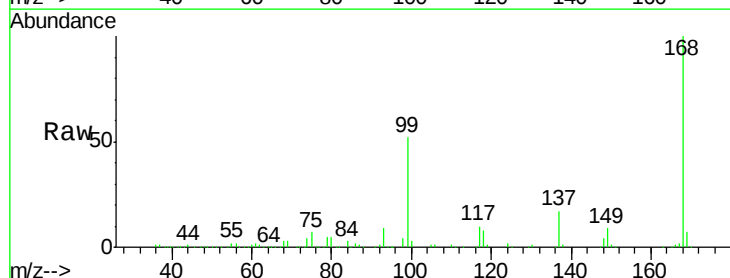
Tgt Ion: 117 Resp: 20833

Ion Ratio Lower Upper

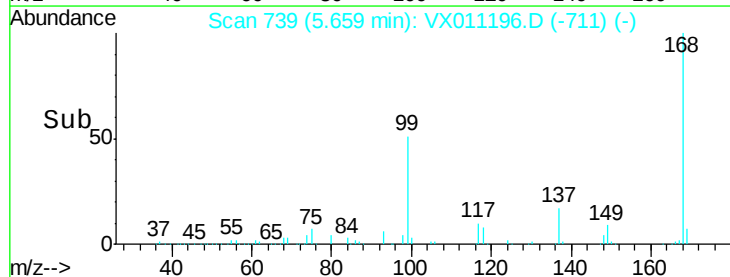
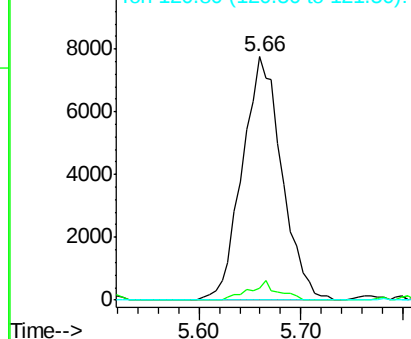
117 100

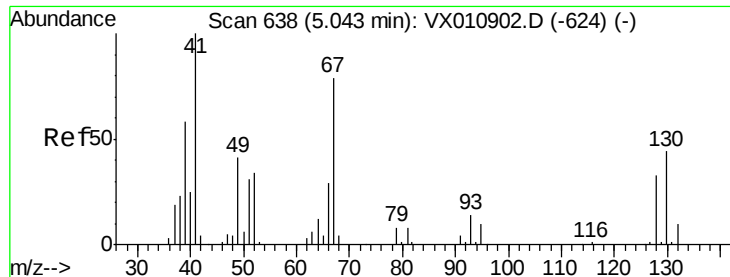
119 5.1 74.2 111.2#

121 0.0 24.2 36.2#



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





#41

Methacrylonitrile

Concen: 0.285 ug/l

RT: 5.05 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-378-380

Tgt Ion: 41 Resp: 423

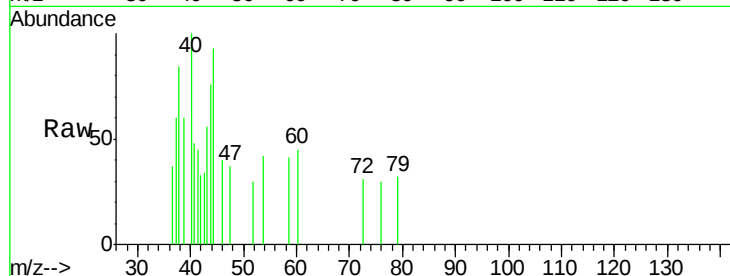
Ion Ratio Lower Upper

41 100

39 0.0 45.4 68.2#

67 0.0 65.9 98.9#

52 11.3 26.2 39.2#

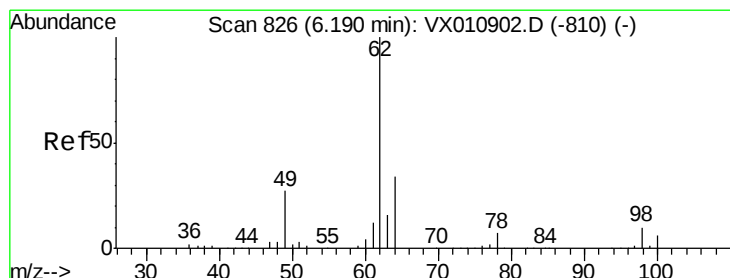
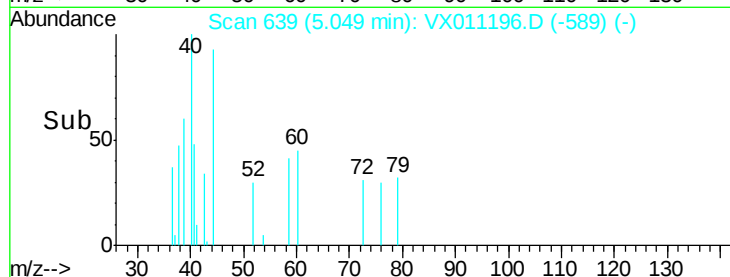
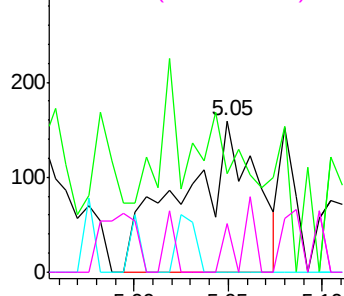


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 0.258 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX011196.D

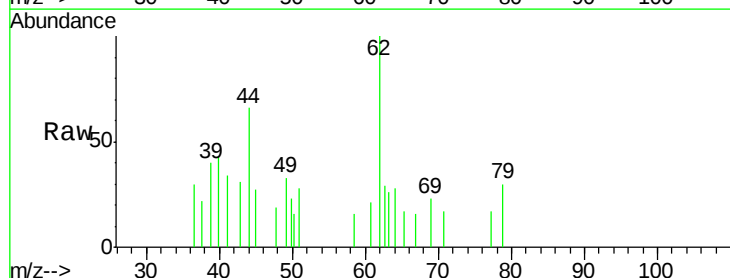
Acq: 30 Jul 2019 15:43

Tgt Ion: 62 Resp: 703

Ion Ratio Lower Upper

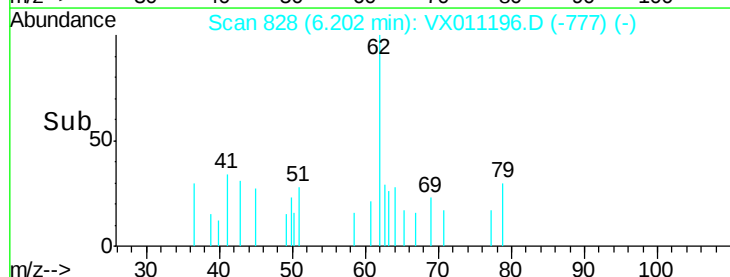
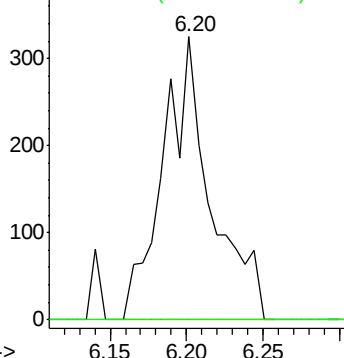
62 100

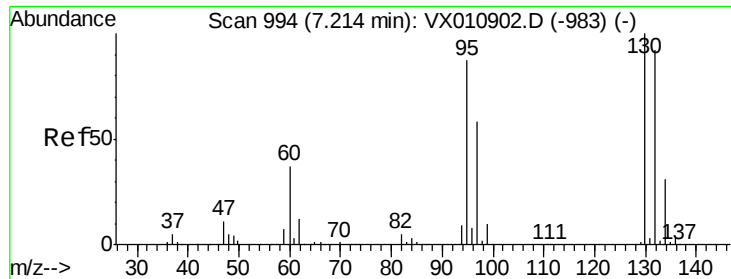
98 0.0 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 3.246 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

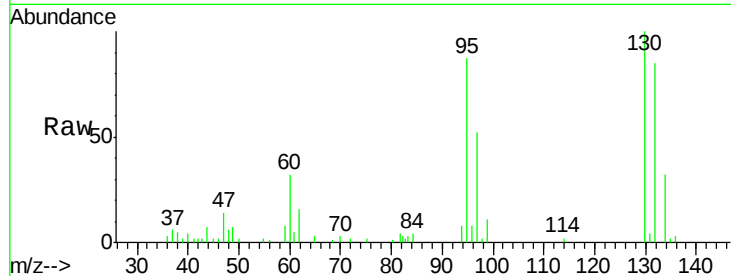
BP-VPB203-GW-378-380

Tgt Ion:130 Resp: 7516

Ion Ratio Lower Upper

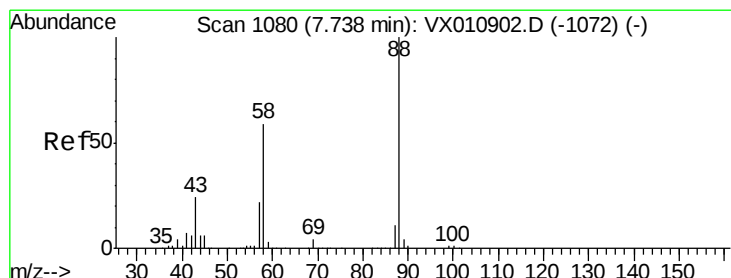
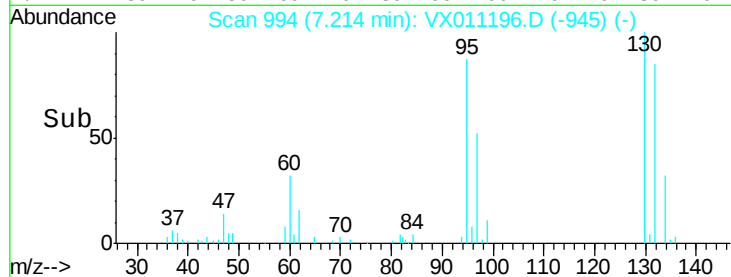
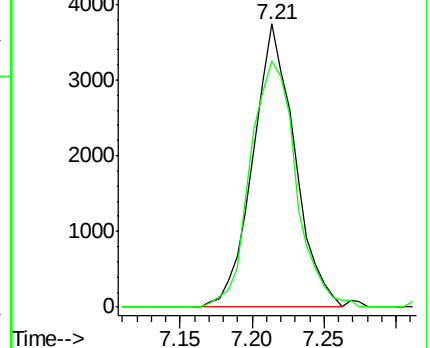
130 100

95 87.0 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 7.407 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

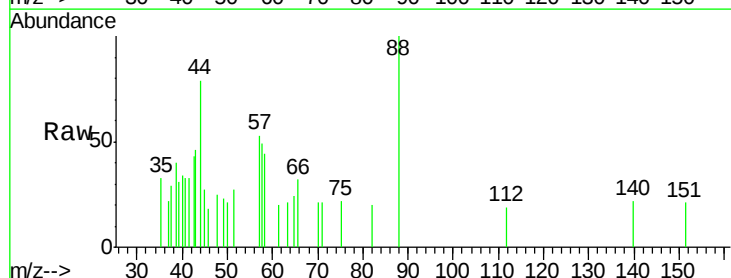
Tgt Ion: 88 Resp: 434

Ion Ratio Lower Upper

88 100

43 54.1 22.9 34.3#

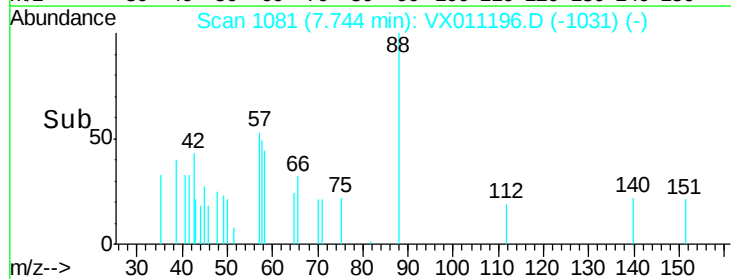
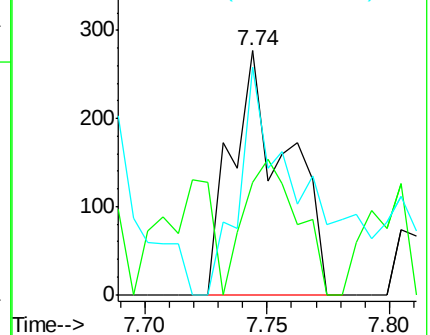
58 107.8 49.8 74.8#

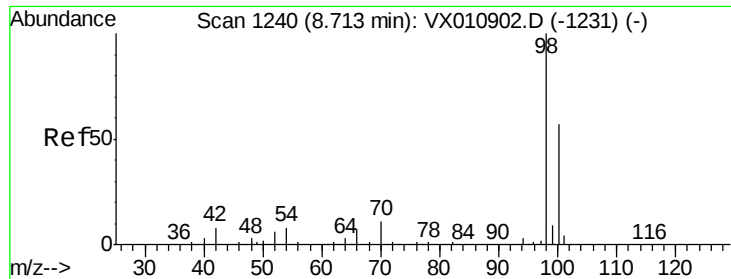


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

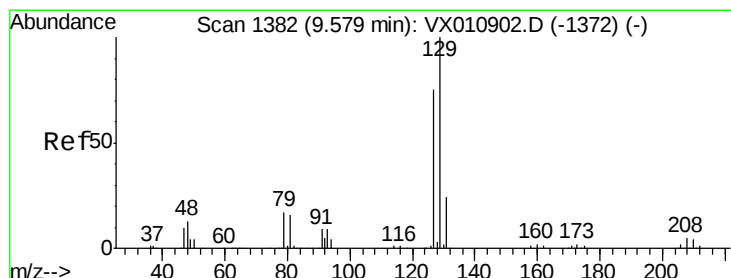
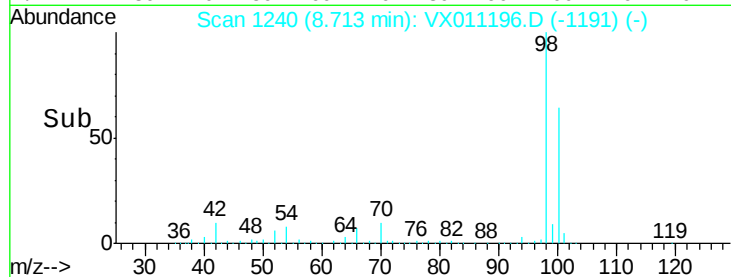
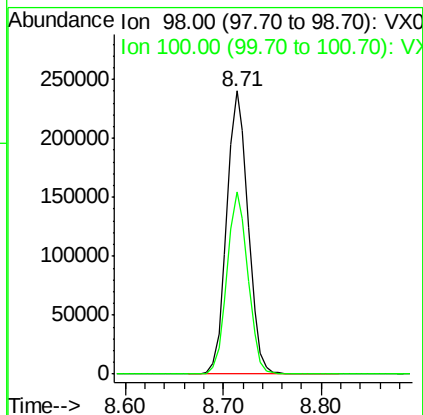
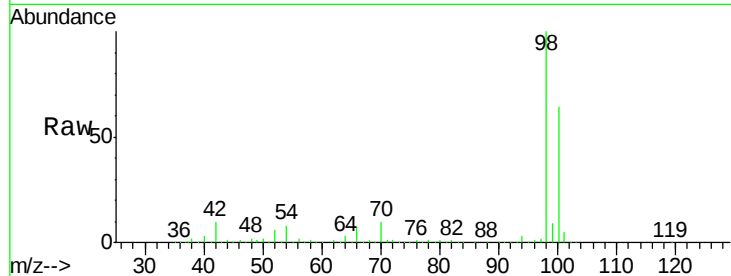




#50
Toluene-d8
Concen: 49.195 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011196.D
Acq: 30 Jul 2019 15:43

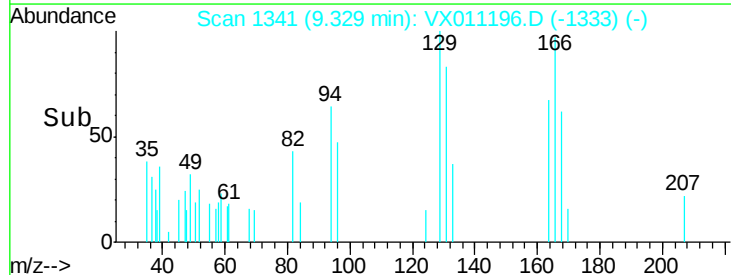
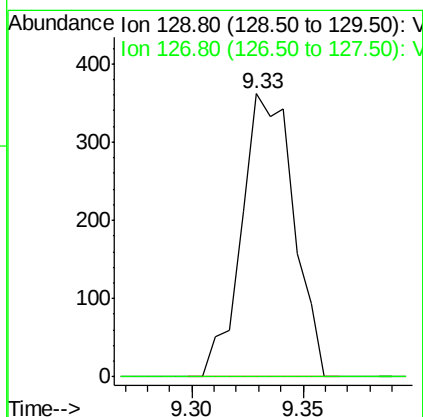
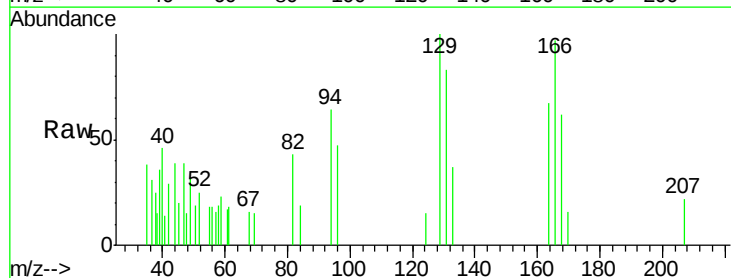
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-378-380

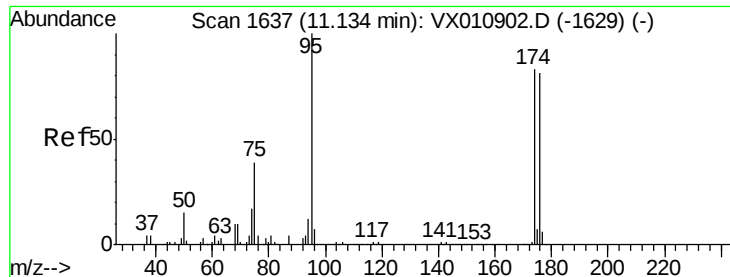
Tgt Ion: 98 Resp: 364114
Ion Ratio Lower Upper
98 100
100 63.3 50.6 75.8



#60
Dibromochloromethane
Concen: 2.758 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.25 min
Lab File: VX011196.D
Acq: 30 Jul 2019 15:43

Tgt Ion: 129 Resp: 590
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 44.280 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-378-380

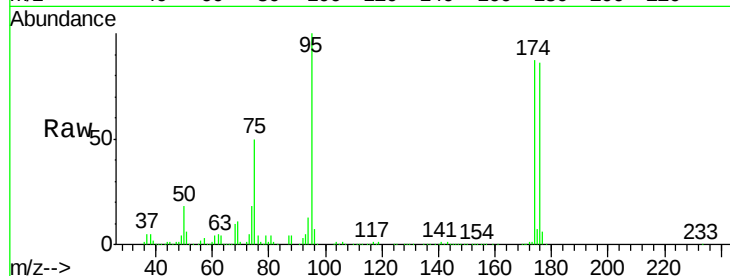
Tgt Ion: 95 Resp: 120467

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.6

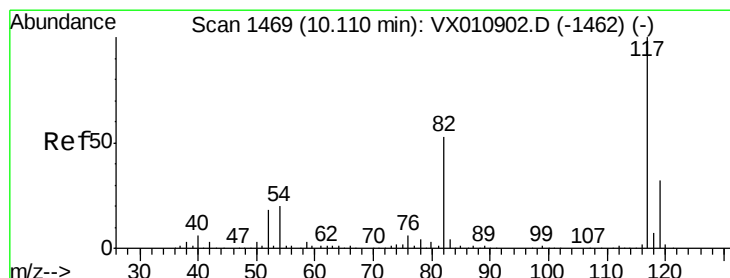
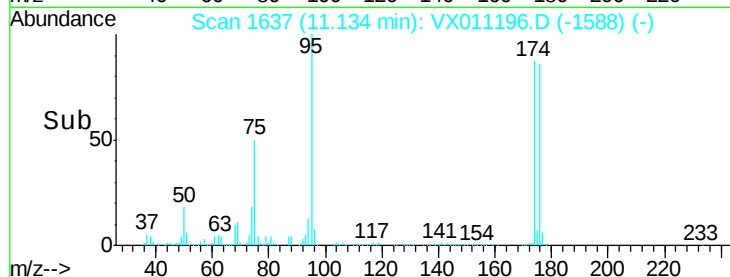
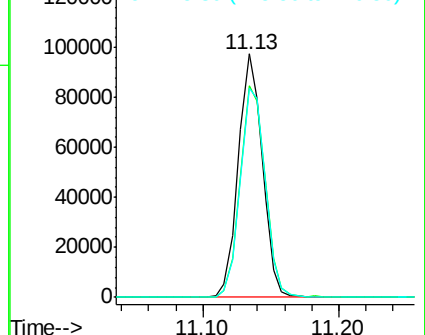
176 89.5 0.0 173.8



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: VX011196.D

Acq: 30 Jul 2019 15:43

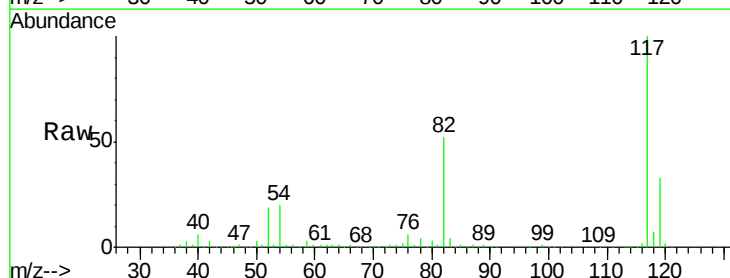
Tgt Ion: 117 Resp: 278292

Ion Ratio Lower Upper

117 100

82 51.6 42.6 63.8

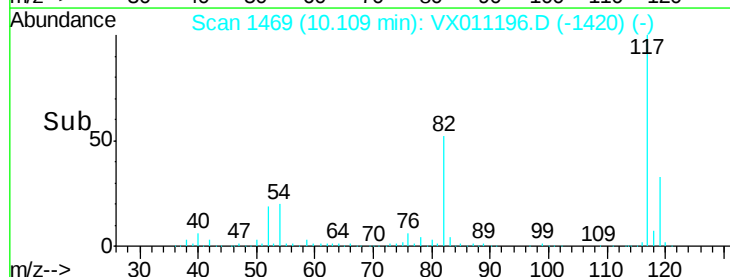
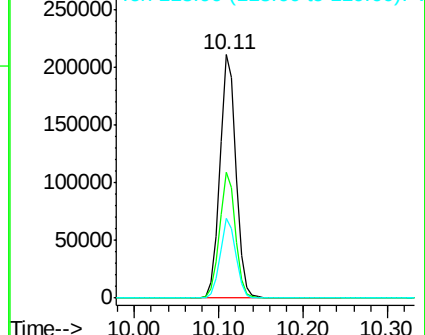
119 32.8 25.9 38.9

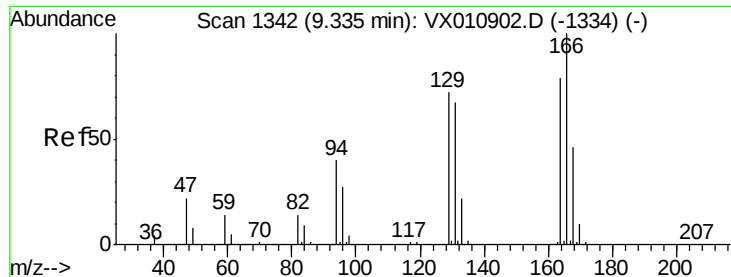


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.248 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX011196.D

Acq: 30 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-378-380

Tgt Ion:164 Resp: 543

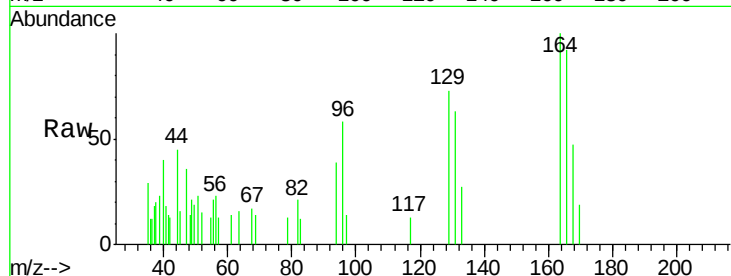
Ion Ratio Lower Upper

164 100

166 91.7 100.8 151.2#

129 72.5 72.6 109.0#

131 63.0 67.7 101.5#

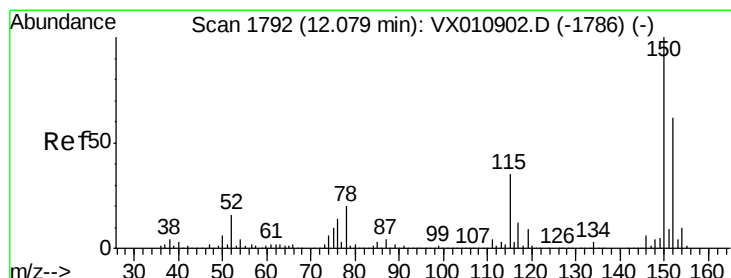
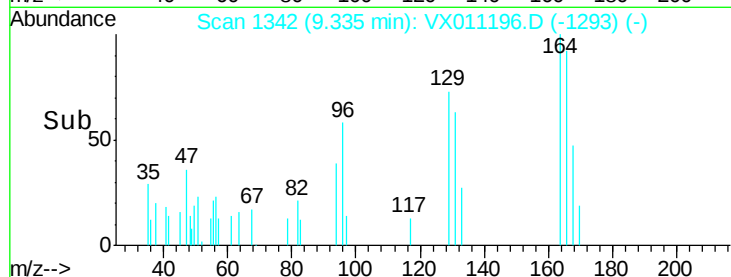
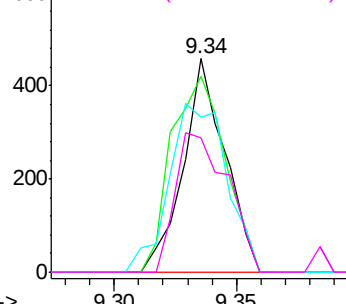


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX011196.D

Acq: 30 Jul 2019 15:43

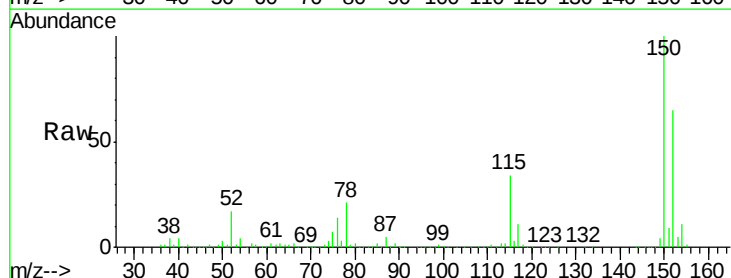
Tgt Ion:152 Resp: 132049

Ion Ratio Lower Upper

152 100

115 54.8 39.7 119.1

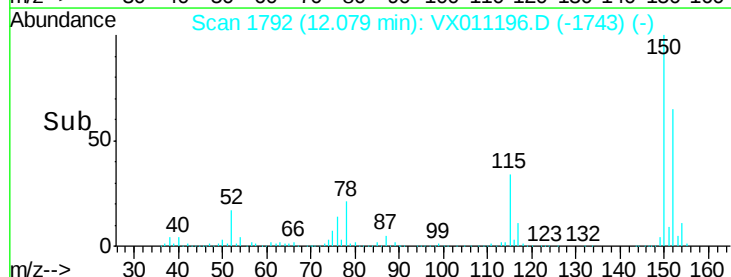
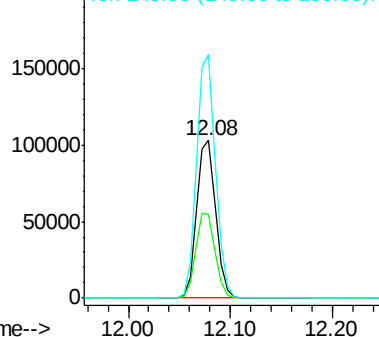
150 153.5 0.0 345.6

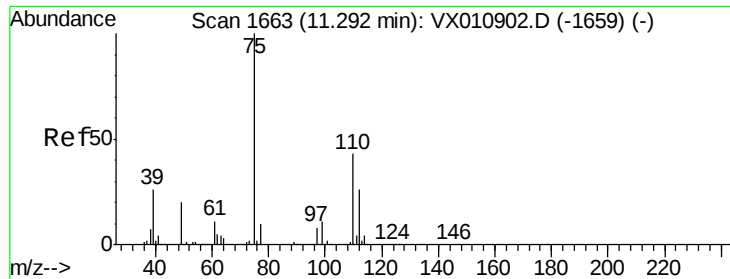


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

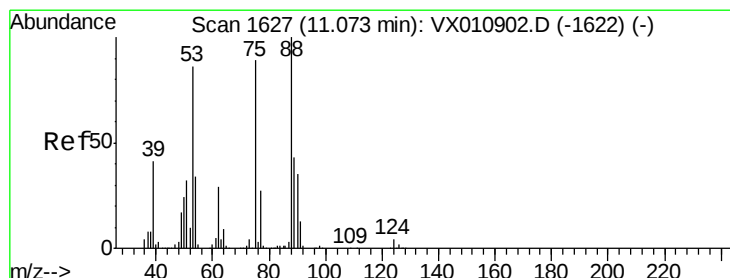
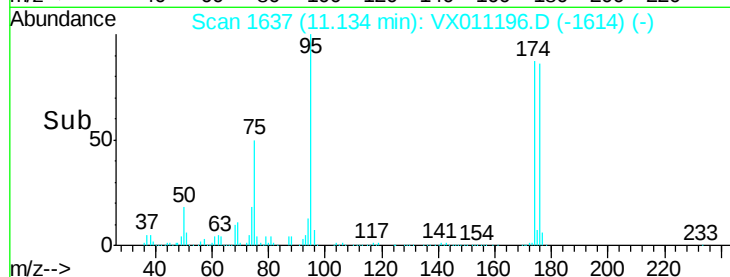
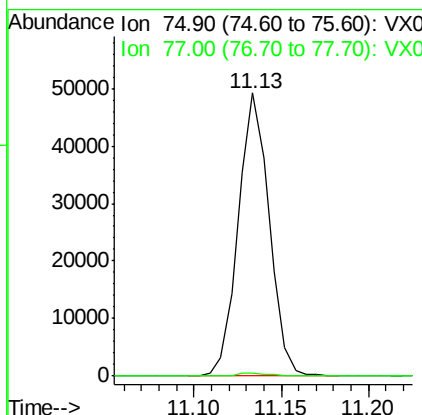
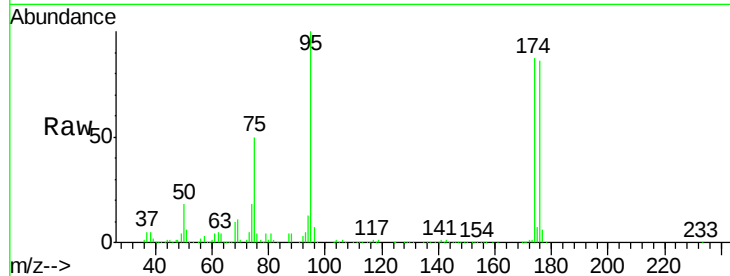




#76
 1,2,3-Trichloropropane
 Concen: 25.465 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011196.D
 Acq: 30 Jul 2019 15:43

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-378-380

Tgt Ion: 75 Resp: 60681
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.3 64.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.362 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011196.D
 Acq: 30 Jul 2019 15:43

Tgt Ion: 75 Resp: 60681
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.7 115.1#
 89 0.0 38.5 57.7#

