

Data File : VX011304.D  
Acq On : 02 Aug 2019 14:56  
Operator : JC/SP  
Sample : K4145-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-TB-20190731

Quant Time: Aug 03 05:43:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 145457   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 235700   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 220908   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 101340   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 77531    | 52.93 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.86% |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 73853    | 47.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.98%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 282472   | 48.63 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.26%  |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 94853    | 45.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.48%  |      |

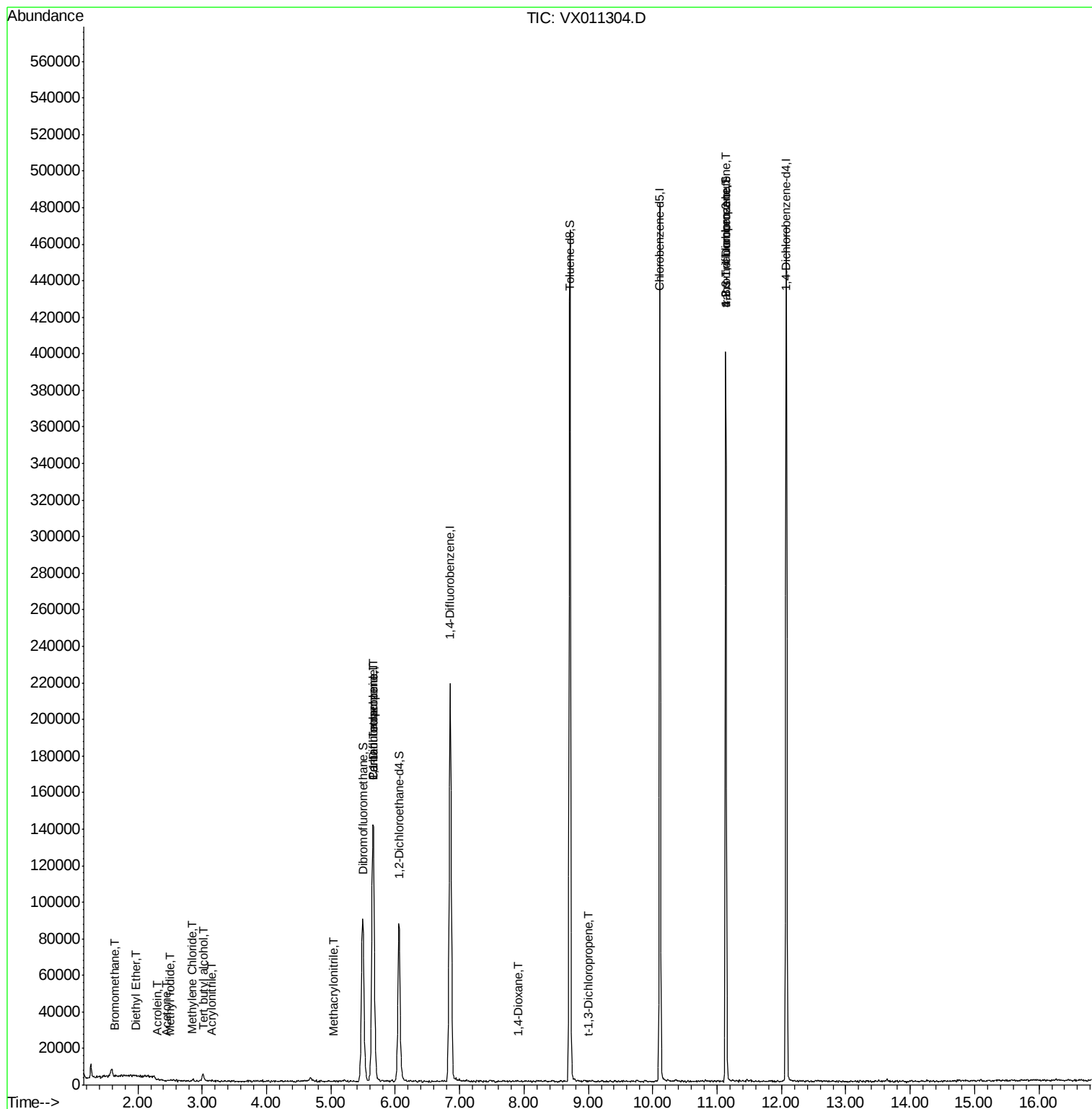
|                                |       |     |        |               |    |  |
|--------------------------------|-------|-----|--------|---------------|----|--|
| Target Compounds               |       |     | Qvalue |               |    |  |
| 5) Bromomethane                | 1.64  | 94  | 612    | 0.618 ug/l #  | 53 |  |
| 6) Chloroethane                | 1.72  | 64  | 169    | Below Cal #   | 74 |  |
| 8) Diethyl Ether               | 1.98  | 74  | 180    | 0.204 ug/l    | 80 |  |
| 10) Methyl Iodide              | 2.51  | 142 | 631    | 0.375 ug/l #  | 88 |  |
| 11) Tert butyl alcohol         | 3.02  | 59  | 1937   | 6.654 ug/l #  | 76 |  |
| 13) Acrolein                   | 2.29  | 56  | 132    | 0.305 ug/l #  | 15 |  |
| 15) Acrylonitrile              | 3.15  | 53  | 169    | 0.242 ug/l #  | 29 |  |
| 16) Acetone                    | 2.44  | 43  | 224    | 0.321 ug/l #  | 40 |  |
| 20) Methylene Chloride         | 2.85  | 84  | 439    | 0.287 ug/l #  | 87 |  |
| 36) 1,1-Dichloropropene        | 5.66  | 75  | 9354   | 4.545 ug/l #  | 39 |  |
| 38) Carbon Tetrachloride       | 5.65  | 117 | 13172  | 6.362 ug/l #  | 15 |  |
| 41) Methacrylonitrile          | 5.04  | 41  | 277    | 0.246 ug/l #  | 1  |  |
| 49) 1,4-Dioxane                | 7.92  | 88  | 45     | 0.999 ug/l #  | 1  |  |
| 53) t-1,3-Dichloropropene      | 9.01  | 75  | 24     | 2.848 ug/l #  | 43 |  |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75  | 46097  | 24.978 ug/l # | 36 |  |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75  | 46097  | 65.185 ug/l # | 11 |  |

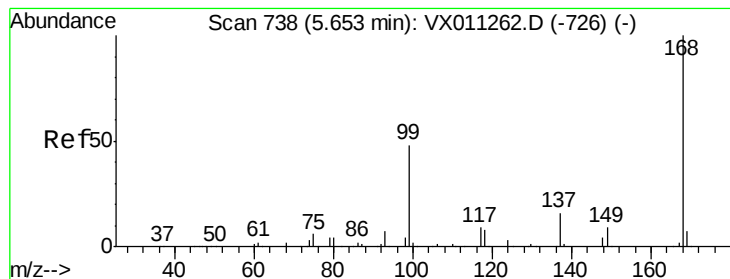
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

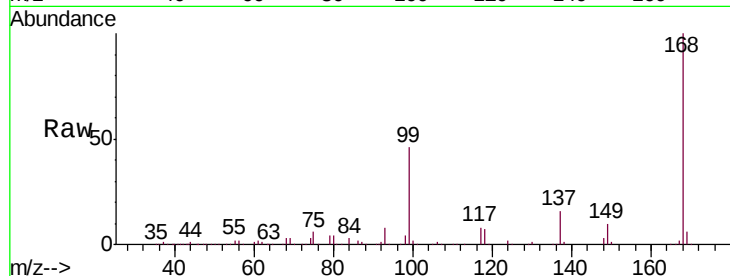
BP-VPB203-TB-20190731

Tgt Ion: 168 Resp: 145457

Ion Ratio Lower Upper

168 100

99 46.5 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

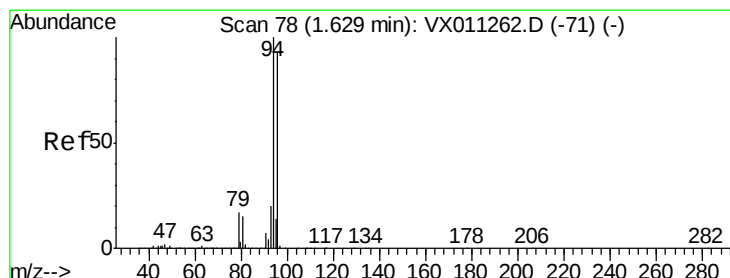
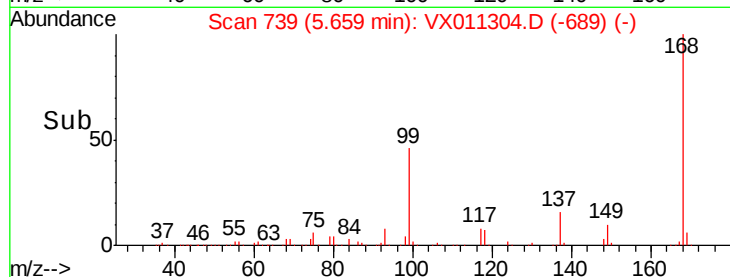
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.618 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011304.D

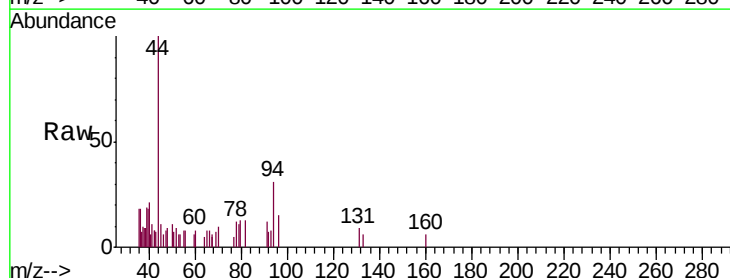
Acq: 02 Aug 2019 14:56

Tgt Ion: 94 Resp: 612

Ion Ratio Lower Upper

94 100

96 48.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

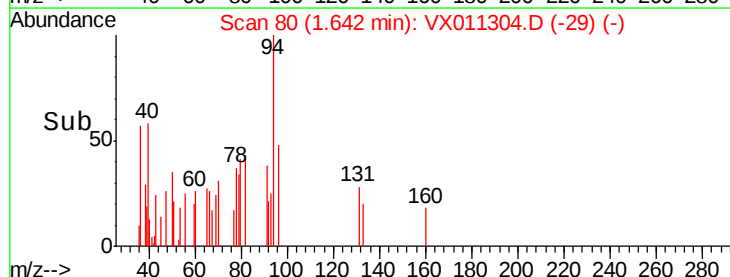
300

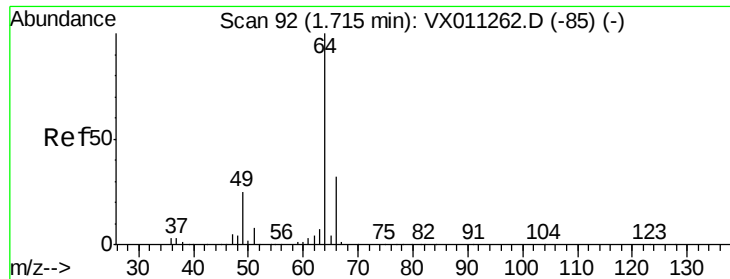
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

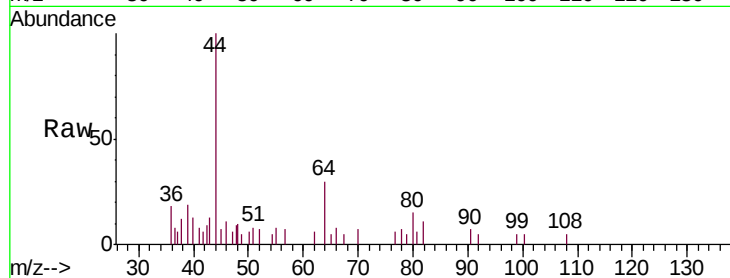
BP-VPB203-TB-20190731

Tgt Ion: 64 Resp: 169

Ion Ratio Lower Upper

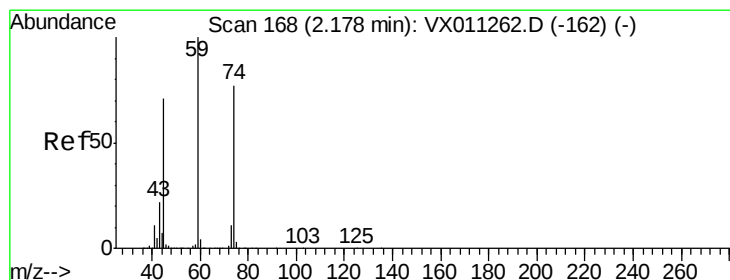
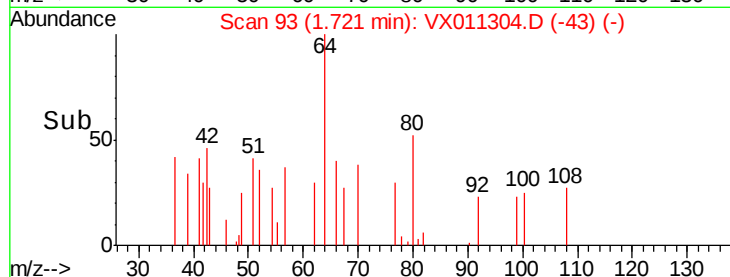
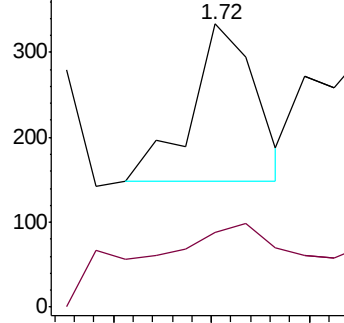
64 100

66 17.3 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.204 ug/l

RT: 1.98 min Scan# 136

Delta R.T. -0.19 min

Lab File: VX011304.D

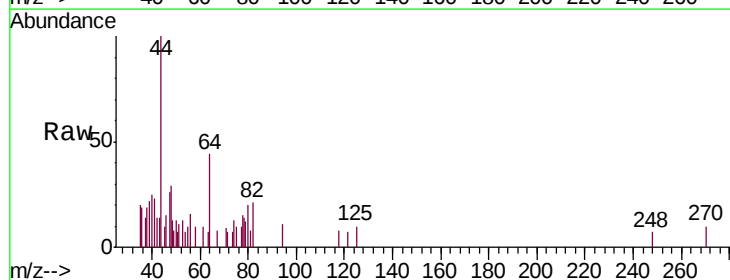
Acq: 02 Aug 2019 14:56

Tgt Ion: 74 Resp: 180

Ion Ratio Lower Upper

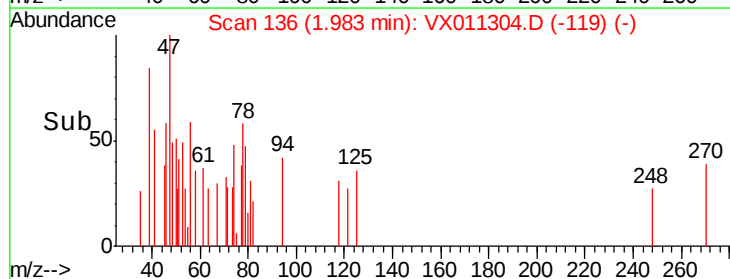
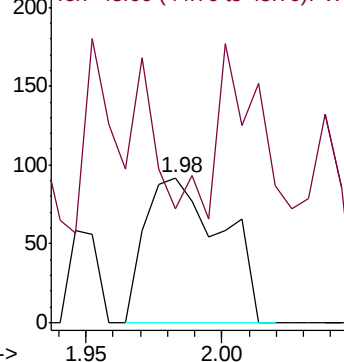
74 100

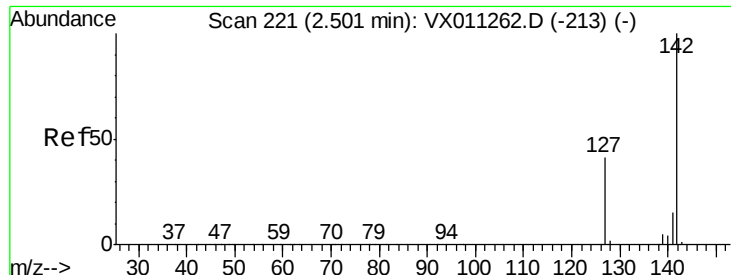
45 72.8 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

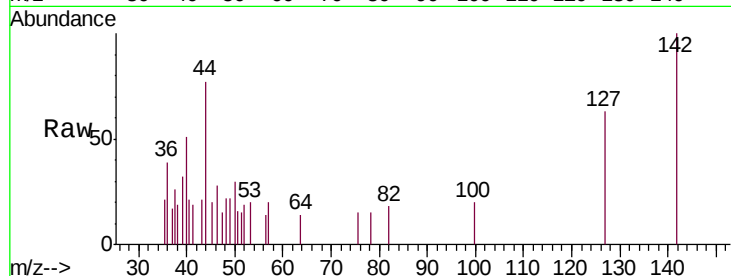




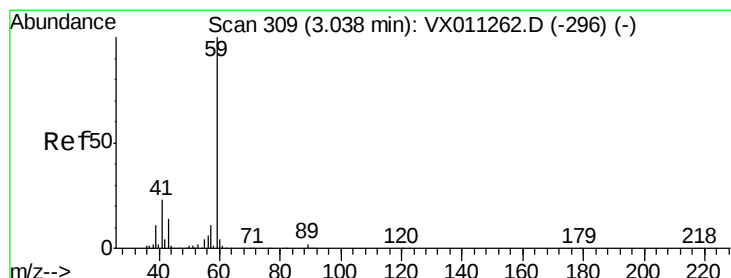
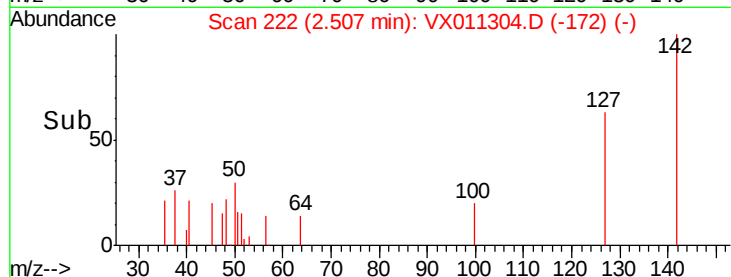
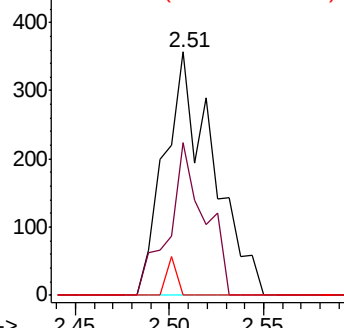
#10  
Methyl Iodide  
Concen: 0.375 ug/l  
RT: 2.51 min Scan# 222  
Delta R.T. 0.01 min  
Lab File: VX011304.D  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-TB-20190731

Tgt Ion: 142 Resp: 631  
Ion Ratio Lower Upper  
142 100  
127 46.6 33.8 50.8  
141 3.2 11.4 17.2#

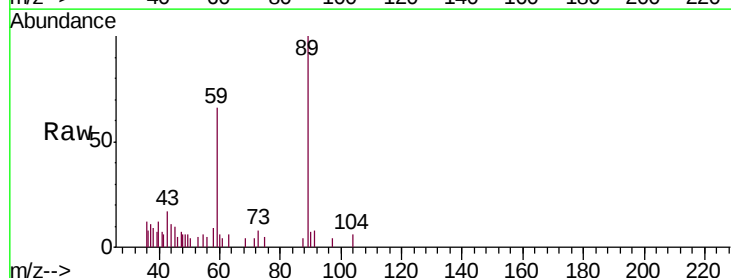


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

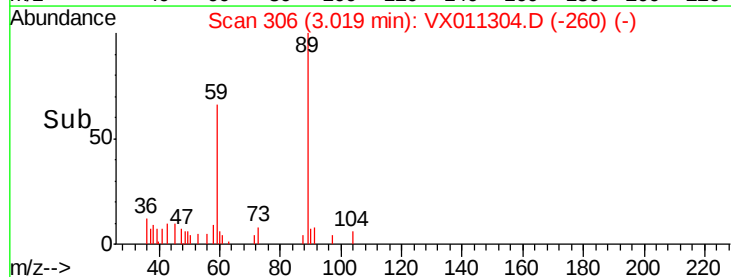
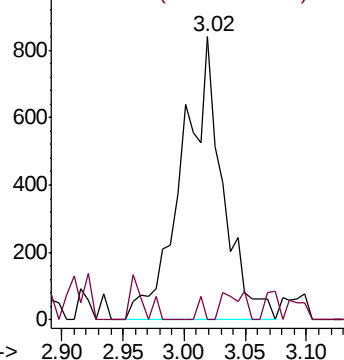


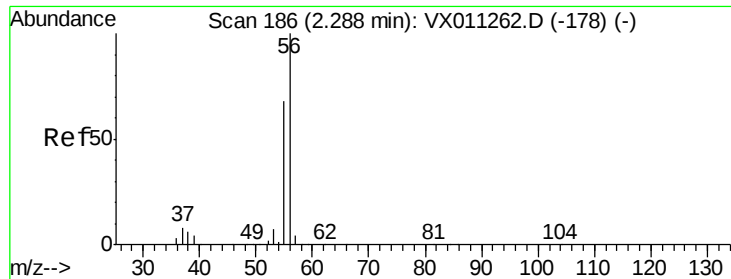
#11  
Tert butyl alcohol  
Concen: 6.654 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.02 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

Tgt Ion: 59 Resp: 1937  
Ion Ratio Lower Upper  
59 100  
57 1.3 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0

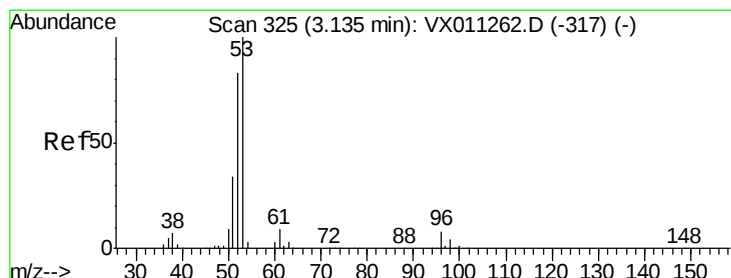
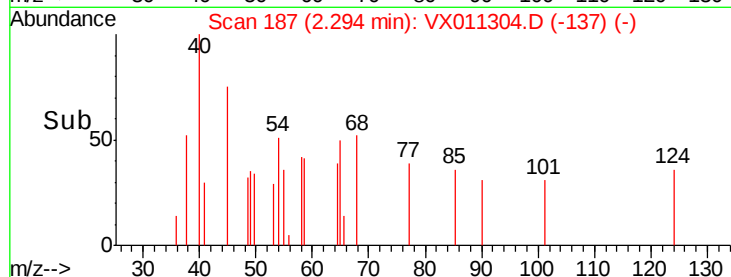
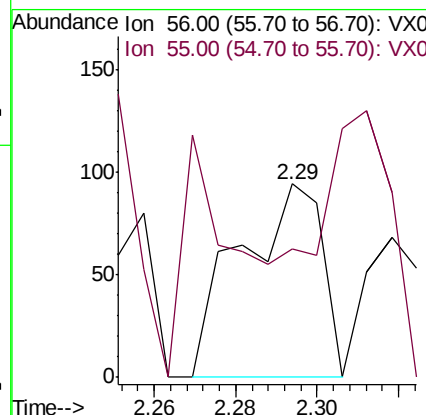
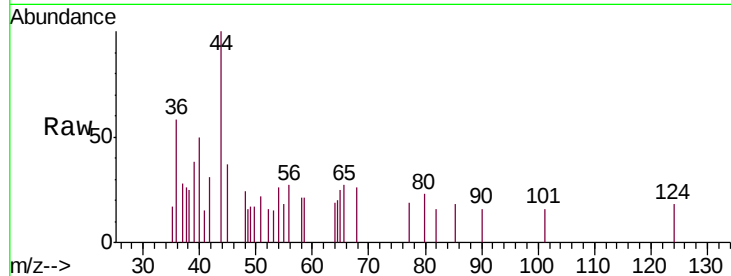




#13  
Acrolein  
Concen: 0.305 ug/l  
RT: 2.29 min Scan# 187  
Delta R.T. 0.01 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

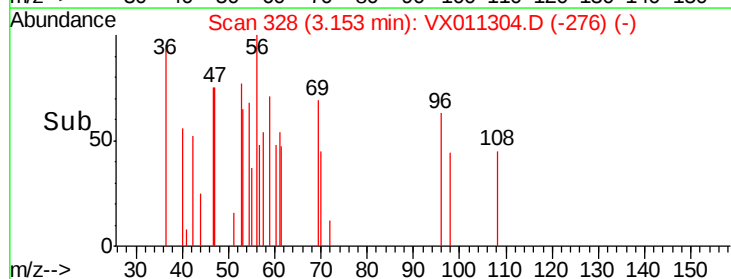
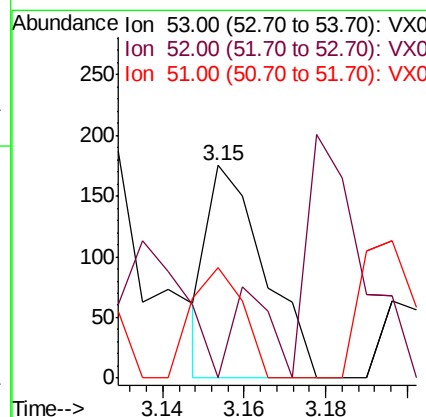
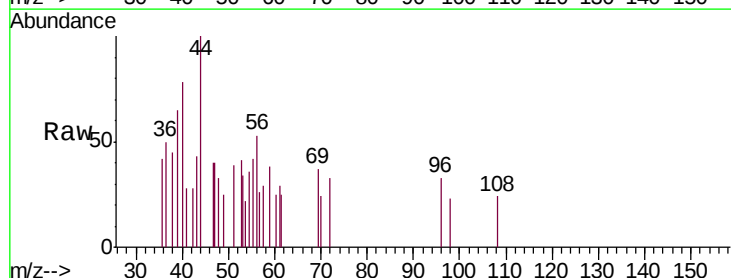
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-TB-20190731

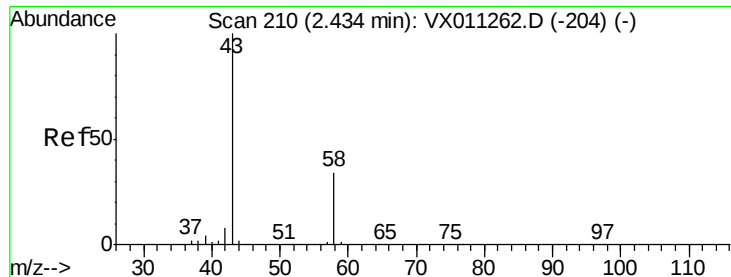
Tgt Ion: 56 Resp: 132  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.0 84.0#



#15  
Acrylonitrile  
Concen: 0.242 ug/l  
RT: 3.15 min Scan# 328  
Delta R.T. 0.02 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

Tgt Ion: 53 Resp: 169  
Ion Ratio Lower Upper  
53 100  
52 0.0 65.5 98.3#  
51 47.9 27.9 41.9#





#16

Acetone

Concen: 0.321 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

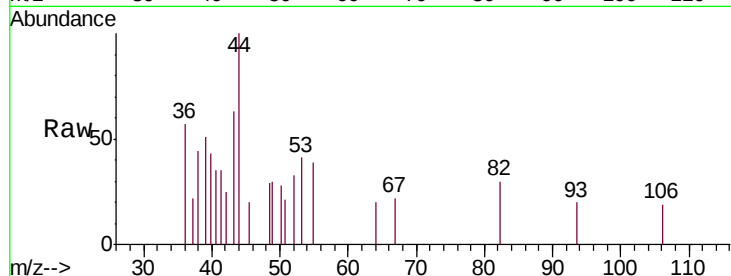
BP-VPB203-TB-20190731

Tgt Ion: 43 Resp: 224

Ion Ratio Lower Upper

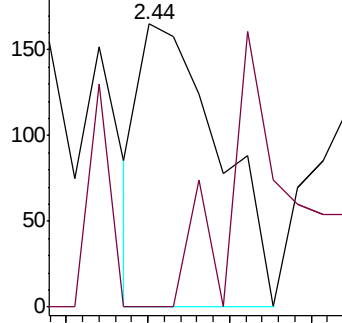
43 100

58 0.0 27.4 41.0#

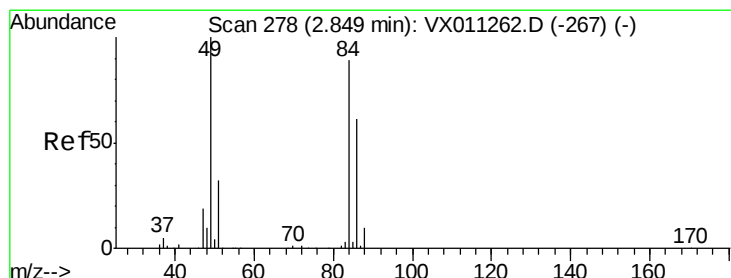
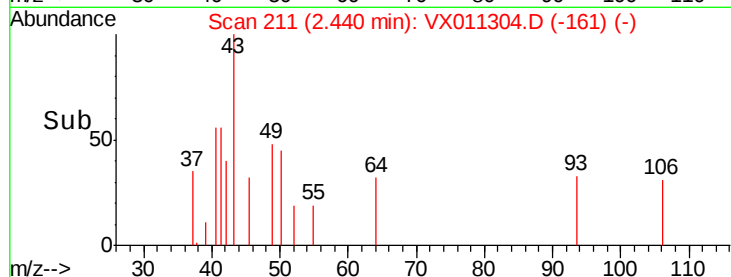


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#20

Methylene Chloride

Concen: 0.287 ug/l

RT: 2.85 min Scan# 278

Delta R.T. 0.00 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

Tgt Ion: 84 Resp: 439

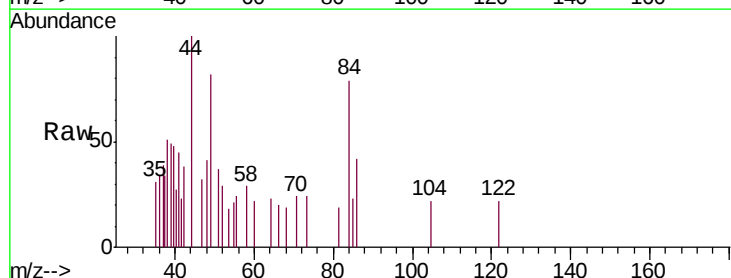
Ion Ratio Lower Upper

84 100

49 103.6 89.3 133.9

51 46.2 28.3 42.5#

86 53.4 54.5 81.7#

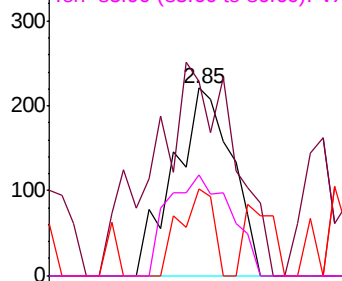


Abundance Ion 83.90 (83.60 to 84.60): VX0

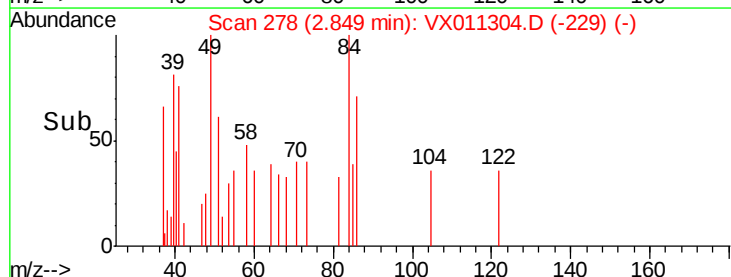
Ion 48.90 (48.60 to 49.60): VX0

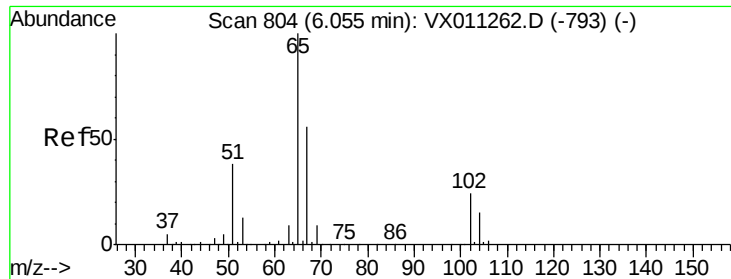
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.928 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.01 min

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MSVOA\_X

ClientSampleId :

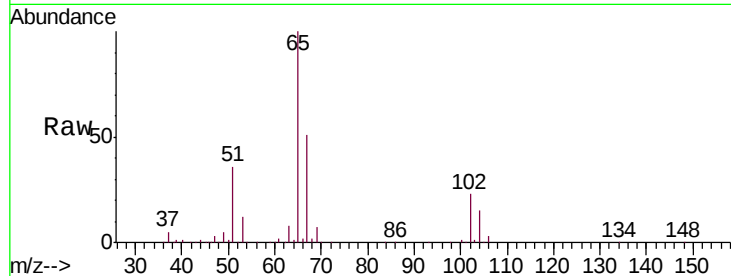
BP-VPB203-TB-20190731

Tgt Ion: 65 Resp: 77531

Ion Ratio Lower Upper

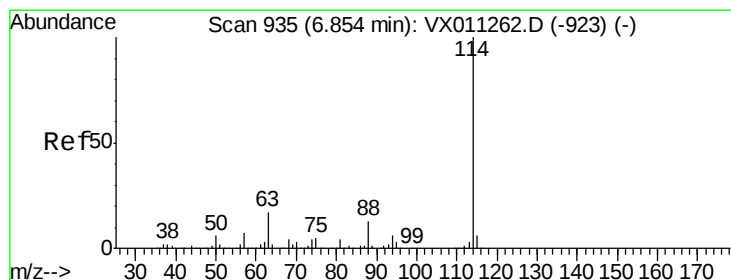
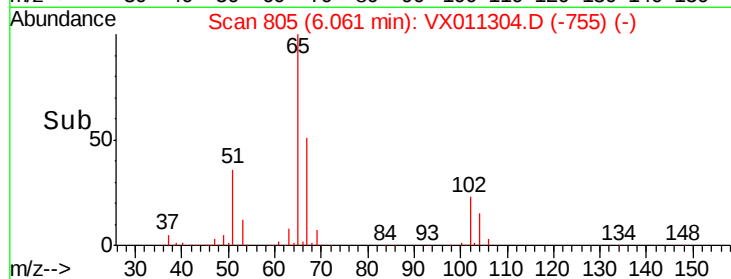
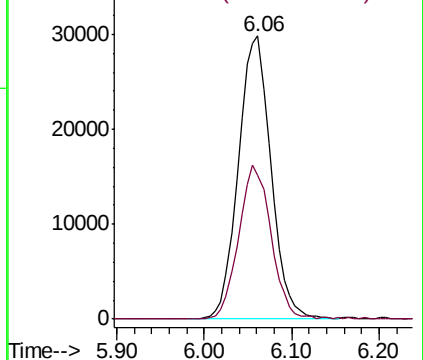
65 100

67 54.2 0.0 110.6



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: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

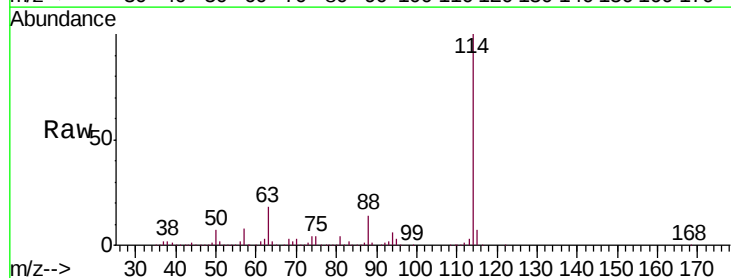
Tgt Ion: 114 Resp: 235700

Ion Ratio Lower Upper

114 100

63 17.6 0.0 34.0

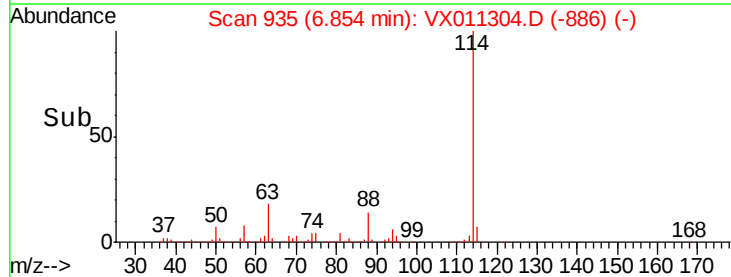
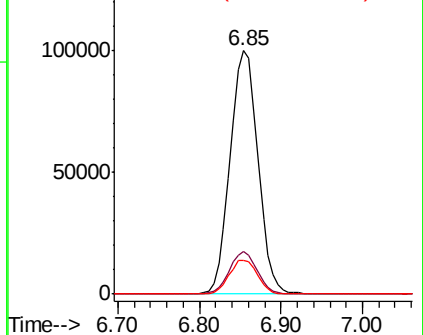
88 14.1 0.0 26.4

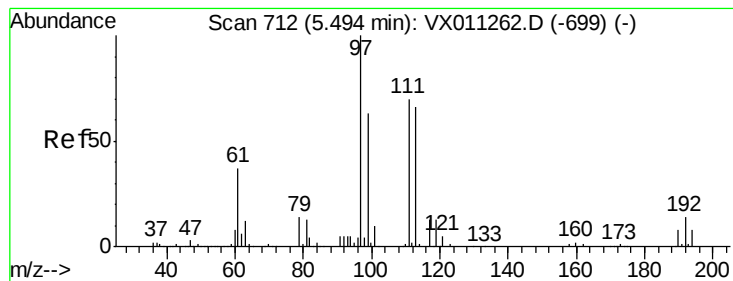


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.993 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011304.D

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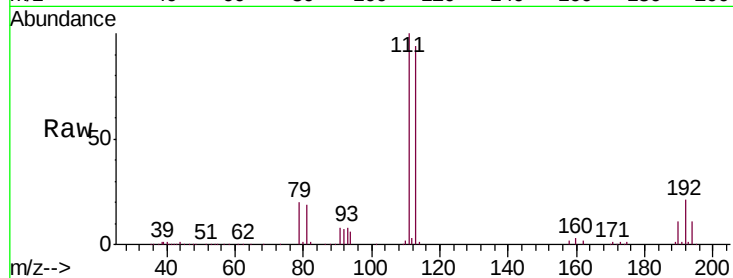
Tgt Ion:113 Resp: 73853

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

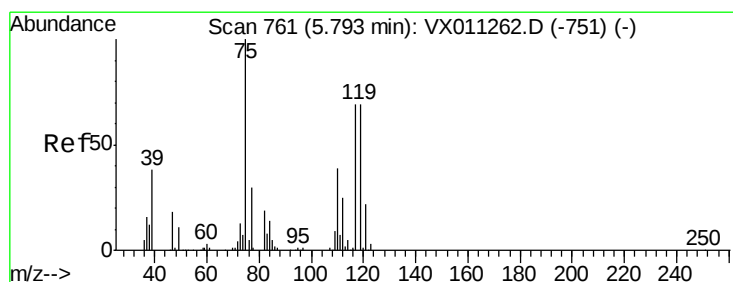
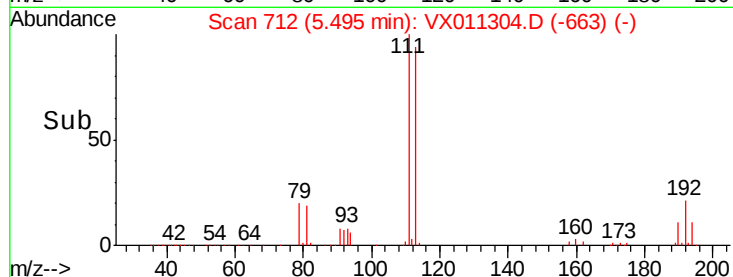
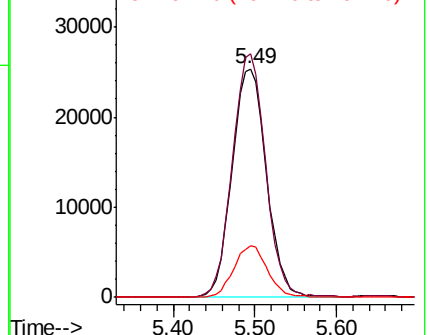
192 22.2 17.8 26.8



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: 4.545 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

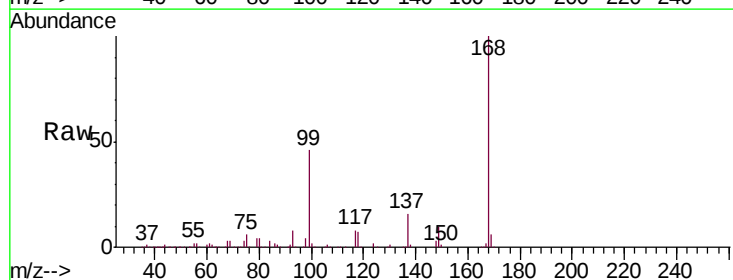
Tgt Ion: 75 Resp: 9354

Ion Ratio Lower Upper

75 100

110 0.0 20.0 59.9#

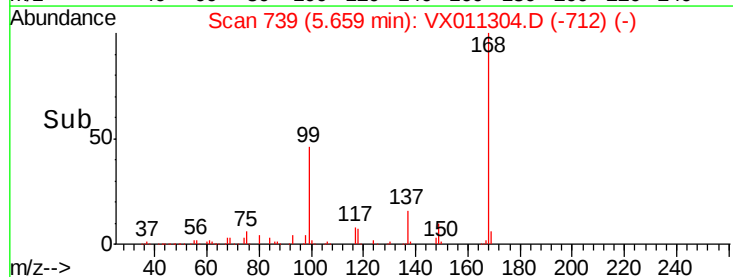
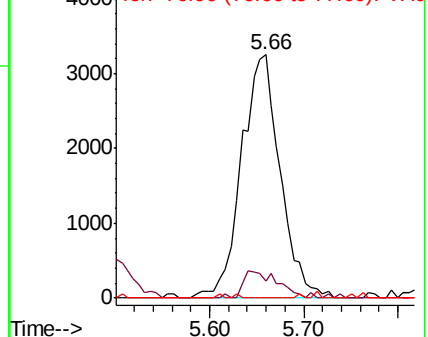
77 0.0 24.8 37.2#

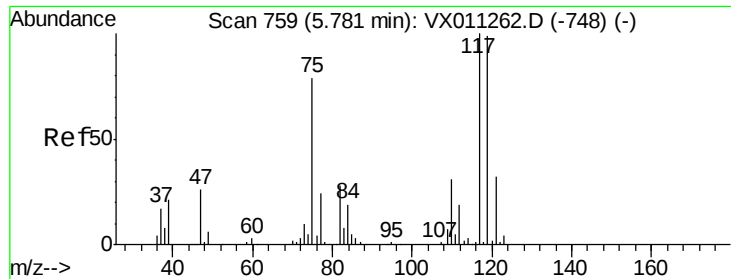


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.362 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB203-TB-20190731

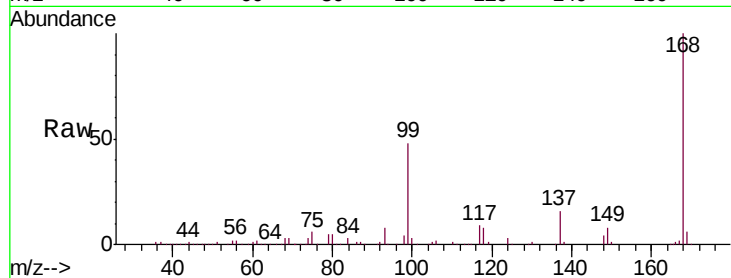
Tgt Ion:117 Resp: 13172

Ion Ratio Lower Upper

117 100

119 6.1 79.0 118.4#

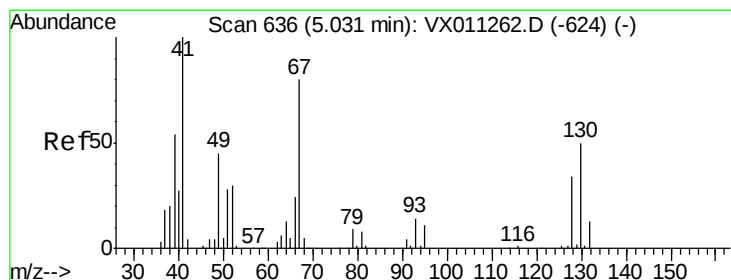
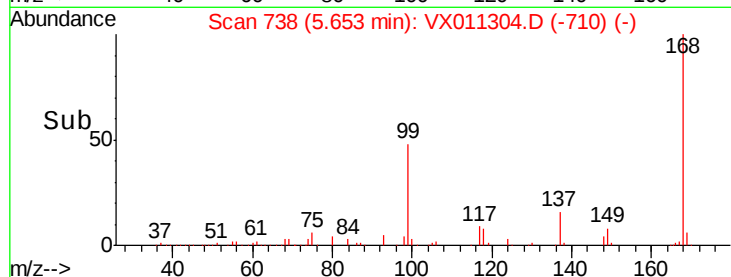
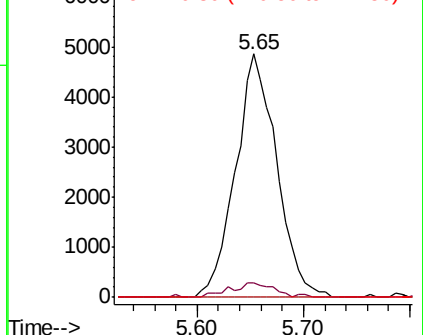
121 0.0 25.9 38.9#



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: 0.246 ug/l

RT: 5.04 min Scan# 638

Delta R.T. 0.01 min

Lab File: VX011304.D

Acq: 02 Aug 2019 14:56

Tgt Ion: 41 Resp: 277

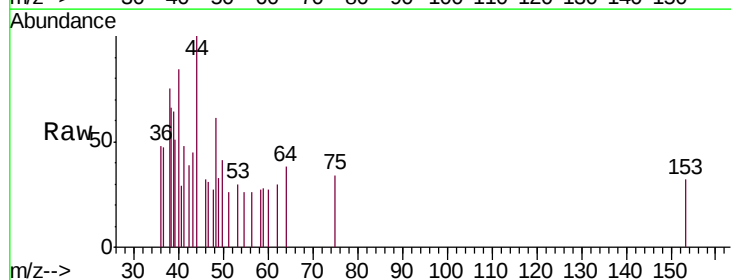
Ion Ratio Lower Upper

41 100

39 171.5 43.0 64.6#

67 0.0 65.1 97.7#

52 8.3 24.8 37.2#

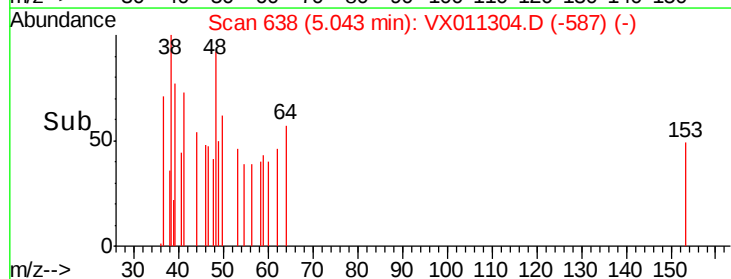
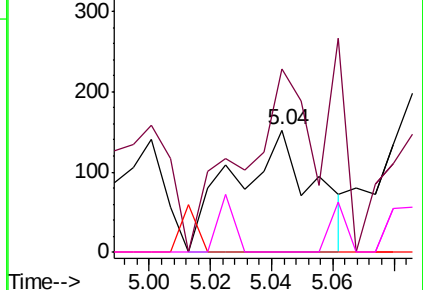


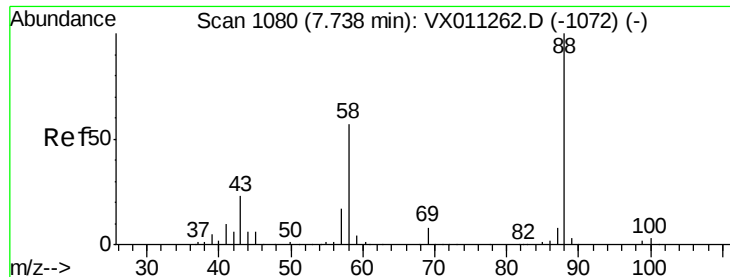
Abundance Ion 41.00 (40.70 to 41.70): VX0

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

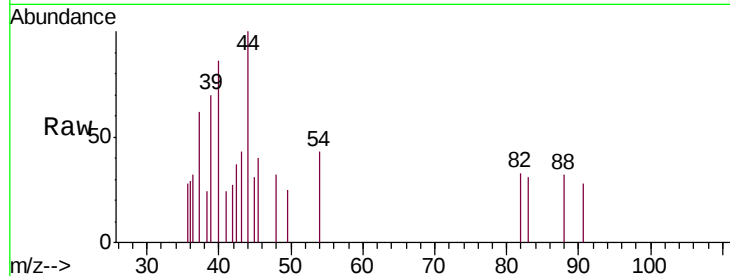




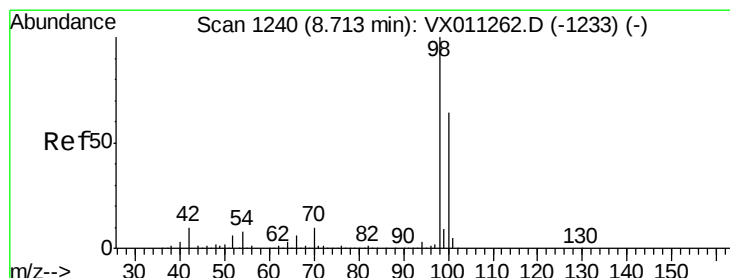
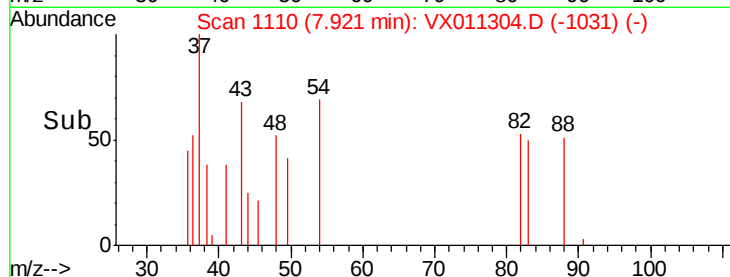
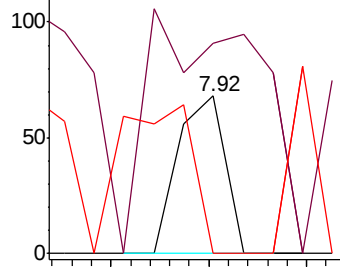
#49  
1,4-Dioxane  
Concen: 0.999 ug/l  
RT: 7.92 min Scan# 1110  
Delta R.T. 0.18 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-TB-20190731

Tgt Ion: 88 Resp: 45  
Ion Ratio Lower Upper  
88 100  
43 364.4 22.2 33.2#  
58 144.4 47.8 71.8#

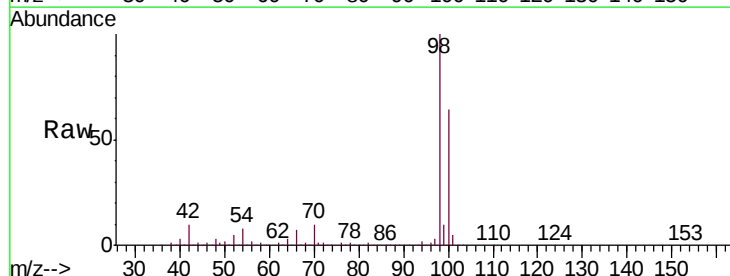


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

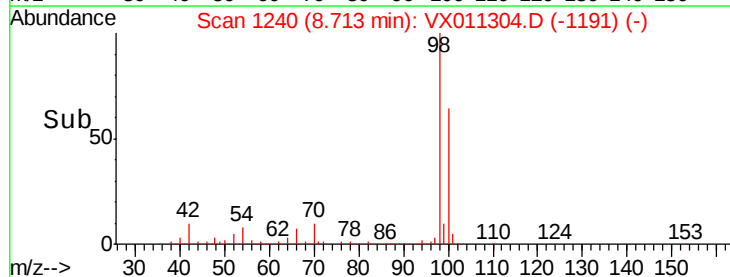
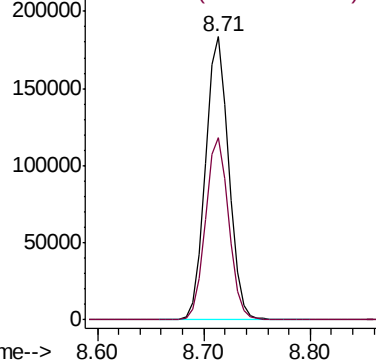


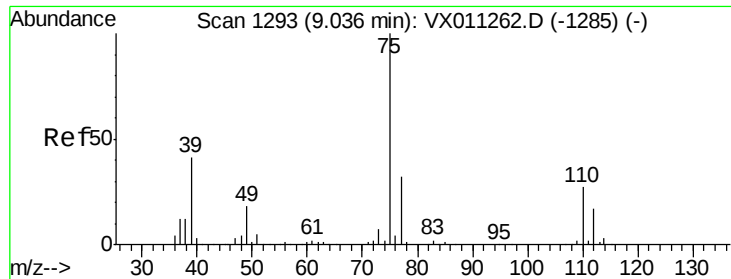
#50  
Toluene-d8  
Concen: 48.630 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

Tgt Ion: 98 Resp: 282472  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

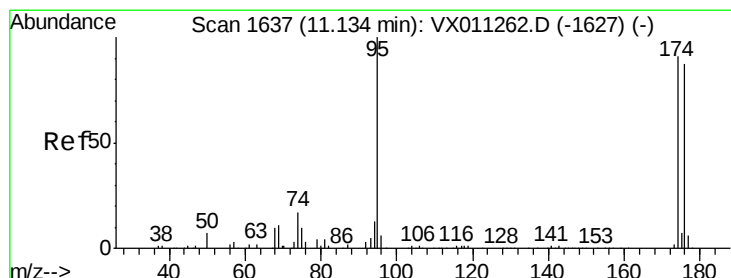
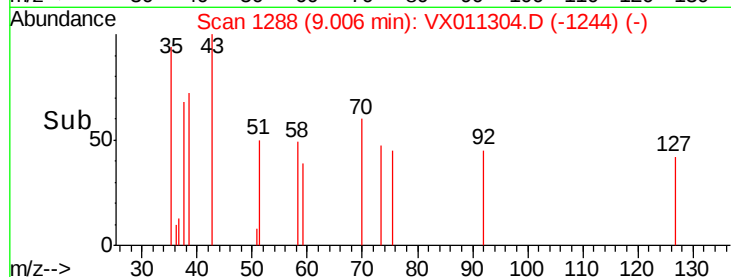
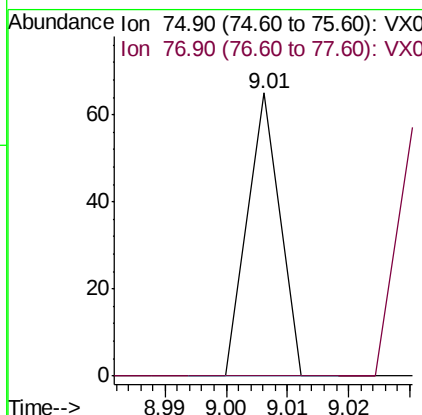
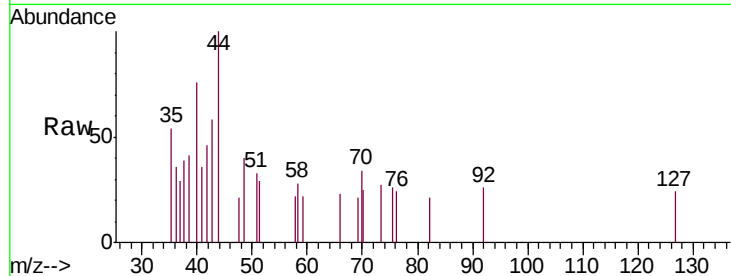




#53  
t-1,3-Dichloropropene  
Concen: 2.848 ug/l  
RT: 9.01 min Scan# 1288  
Delta R.T. -0.03 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

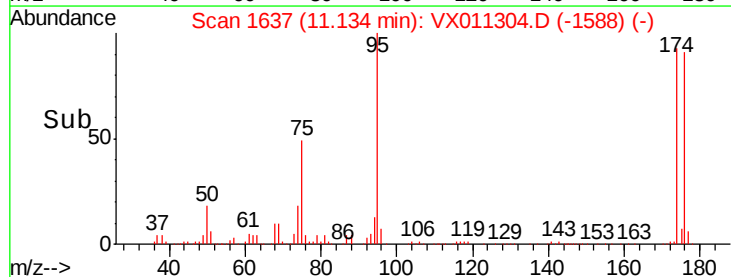
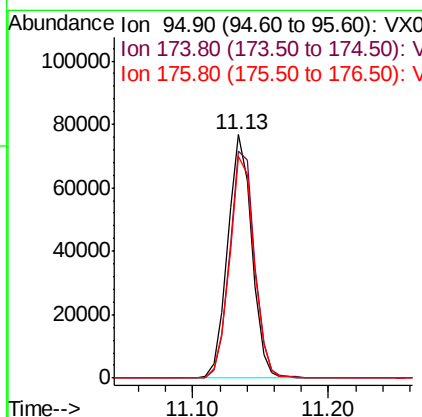
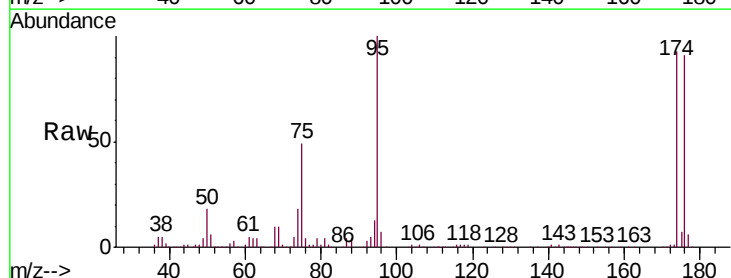
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-TB-20190731

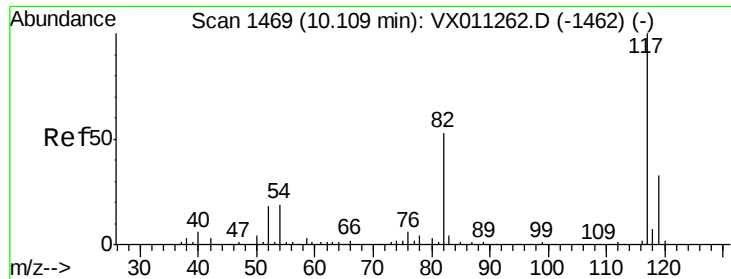
Tgt Ion: 75 Resp: 24  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.0#



#62  
4-Bromofluorobenzene  
Concen: 45.738 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

Tgt Ion: 95 Resp: 94853  
Ion Ratio Lower Upper  
95 100  
174 96.6 0.0 191.2  
176 92.6 0.0 184.8

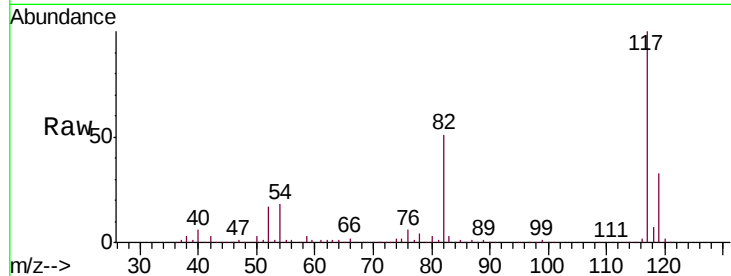




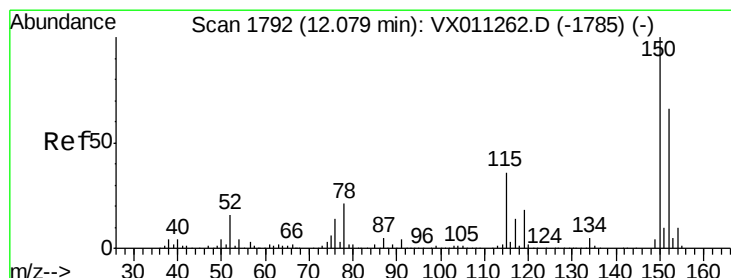
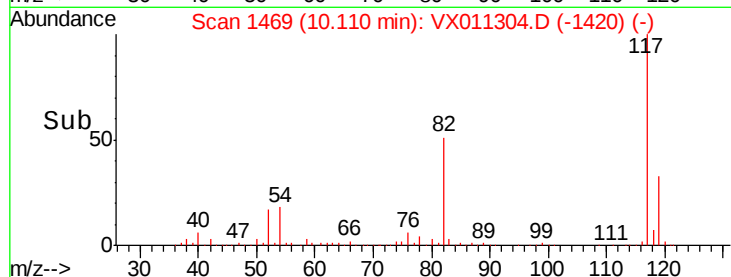
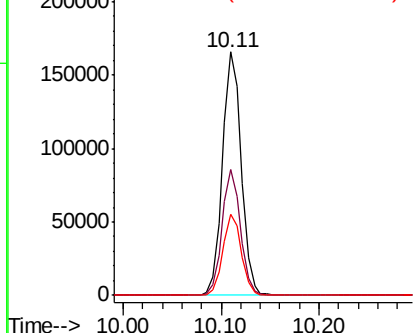
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-TB-20190731

Tgt Ion:117 Resp: 220908  
Ion Ratio Lower Upper  
117 100  
82 51.4 42.2 63.2  
119 33.2 26.6 39.8

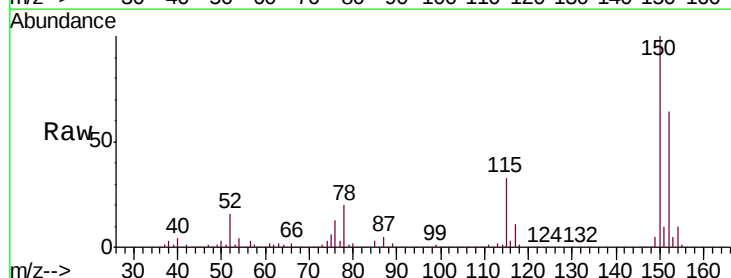


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

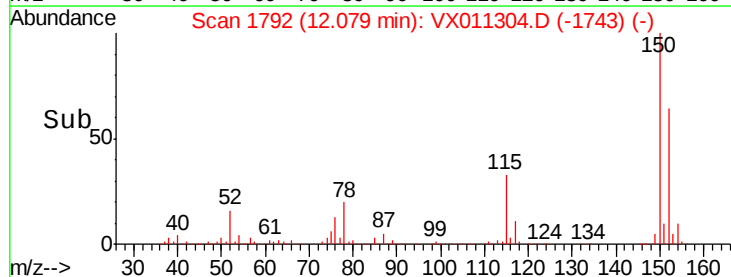
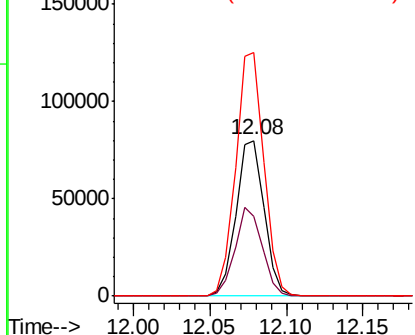


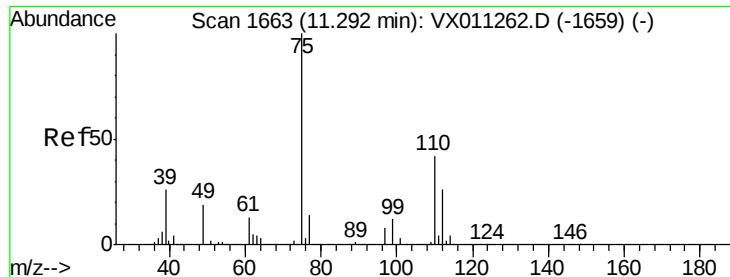
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX011304.D  
Acq: 02 Aug 2019 14:56

Tgt Ion:152 Resp: 101340  
Ion Ratio Lower Upper  
152 100  
115 55.1 40.0 119.9  
150 157.3 0.0 350.4



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

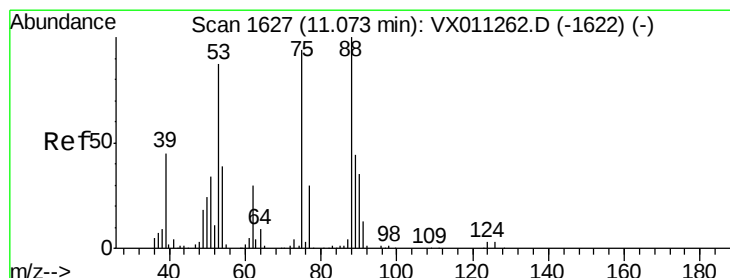
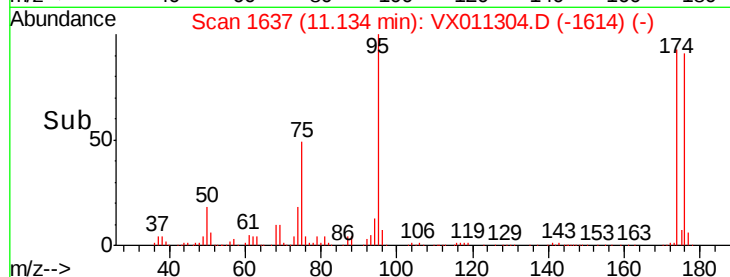
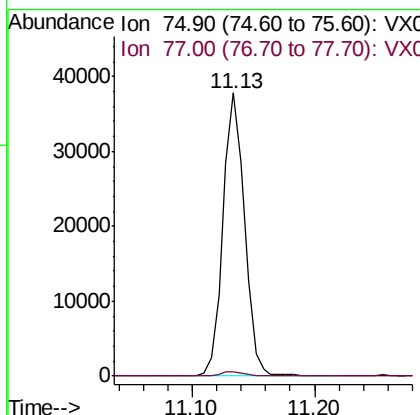
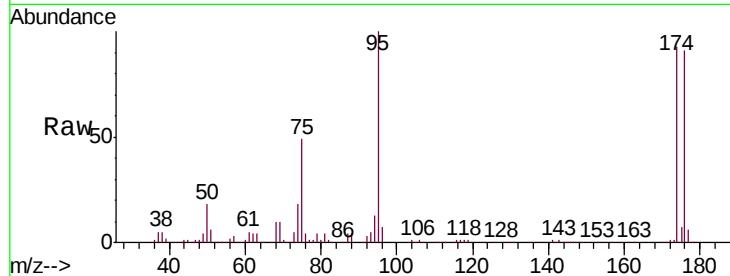




#76  
 1,2,3-Trichloropropane  
 Concen: 24.978 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX011304.D  
 Acq: 02 Aug 2019 14:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB203-TB-20190731

Tgt Ion: 75 Resp: 46097  
 Ion Ratio Lower Upper  
 75 100  
 77 1.7 21.1 63.4#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.185 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX011304.D  
 Acq: 02 Aug 2019 14:56

Tgt Ion: 75 Resp: 46097  
 Ion Ratio Lower Upper  
 75 100  
 53 0.6 78.2 117.4#  
 89 0.0 37.9 56.9#

