

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX081219\  
 Data File : VX011478.D  
 Acq On : 12 Aug 2019 13:09  
 Operator : JC/SP  
 Sample : K4298-03 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB203-GW-803-805

Quant Time: Aug 13 07:38:23 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      | 5.65  | 168  | 191772   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 285478   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 258205   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 116823   | 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   | 105427   | 54.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.18% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 88241    | 47.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.68%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 335558   | 47.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.40%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 110428   | 43.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.92%  |          |

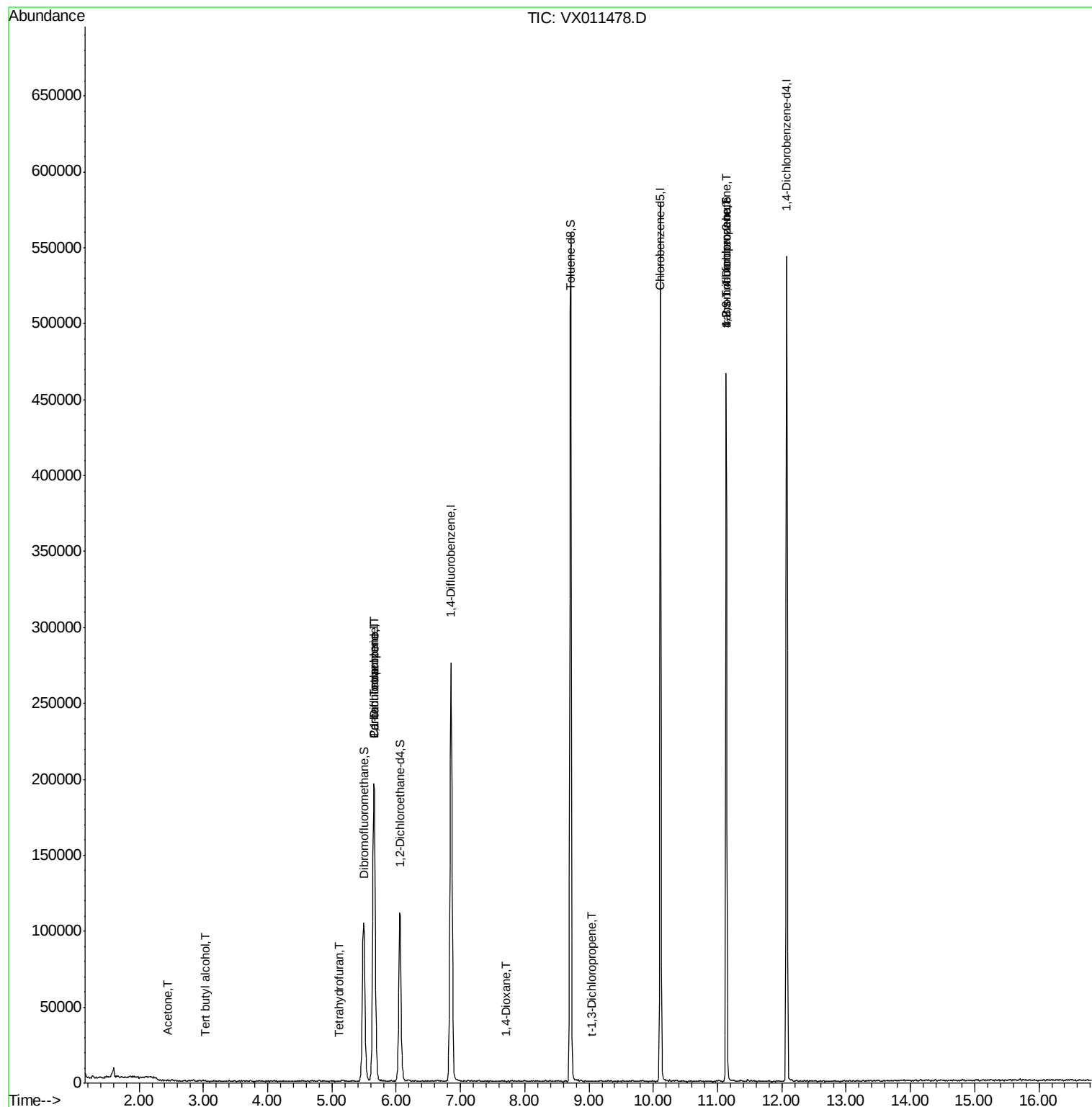
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.73  | 64   | 105      | Below Cal | #      | 48     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 95       | 0.269     | ug/l # | 15     |
| 13) Acrolein                   | 2.28  | 56   | 71       | Below Cal |        | 99     |
| 16) Acetone                    | 2.44  | 43   | 664      | 0.722     | ug/l   | 89     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 232      | 0.289     | ug/l # | 35     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 12922    | 5.184     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18014    | 7.184     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 19       | 0.348     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 49       | 2.855     | ug/l # | 43     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 57348    | 26.956    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 57348    | 69.989    | ug/l # | 10     |

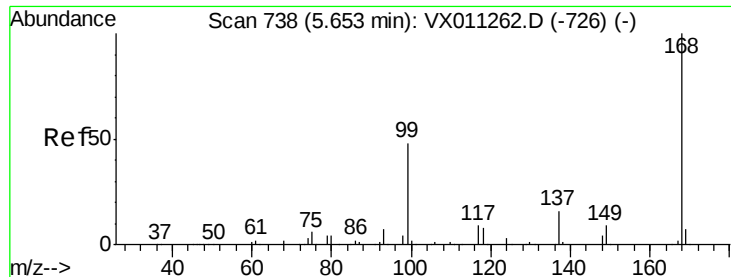
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011478.D

Acq: 12 Aug 2019 13:09

Instrument :

MSVOA\_X

ClientSampleId :

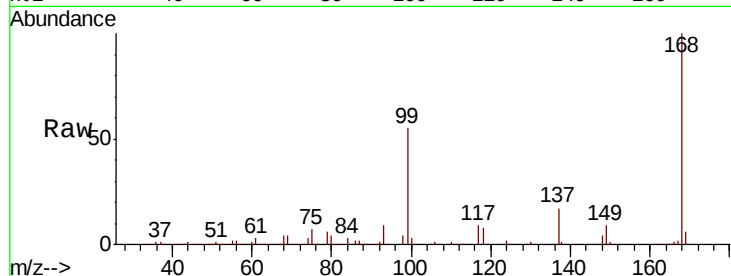
BP-VPB203-GW-803-805

Tgt Ion: 168 Resp: 191772

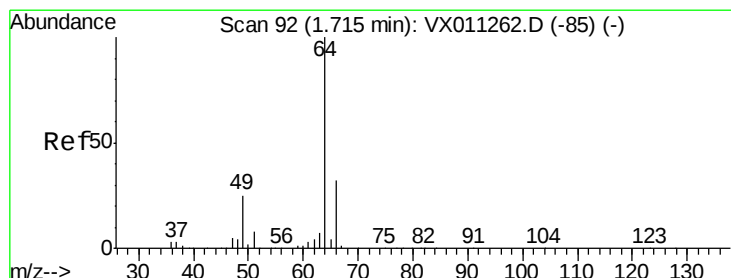
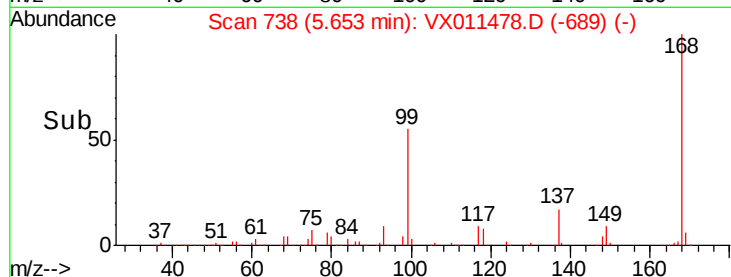
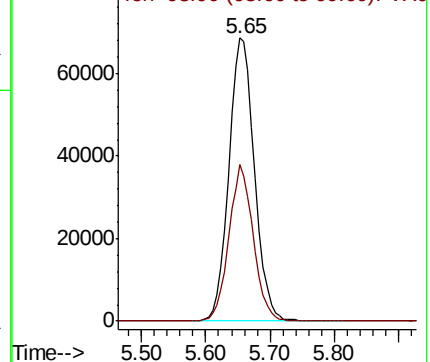
Ion Ratio Lower Upper

168 100

99 55.3 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): VX011262.D (-726) (-)



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011478.D

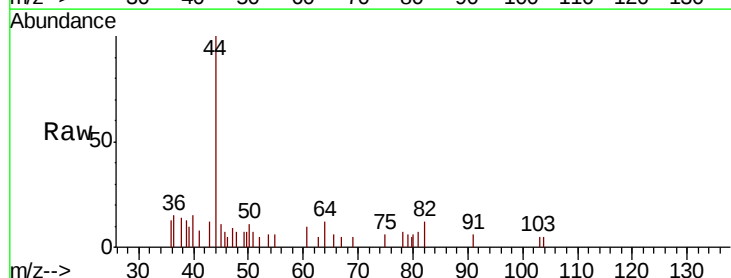
Acq: 12 Aug 2019 13:09

Tgt Ion: 64 Resp: 105

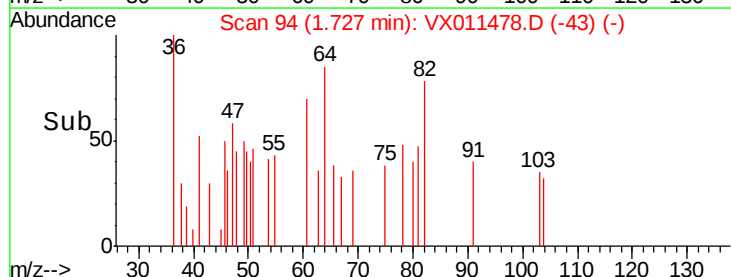
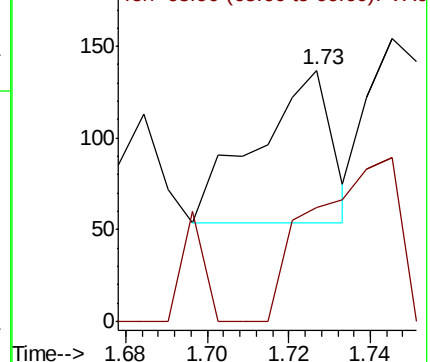
Ion Ratio Lower Upper

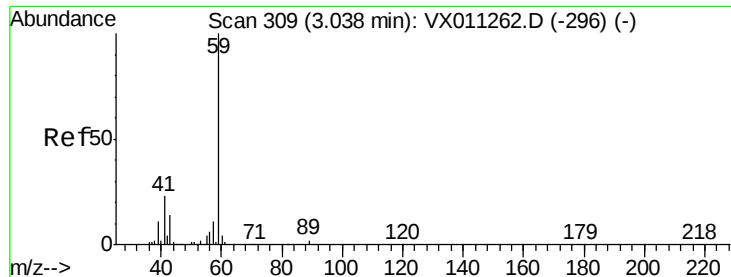
64 100

66 2.4 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX011262.D (-85) (-)

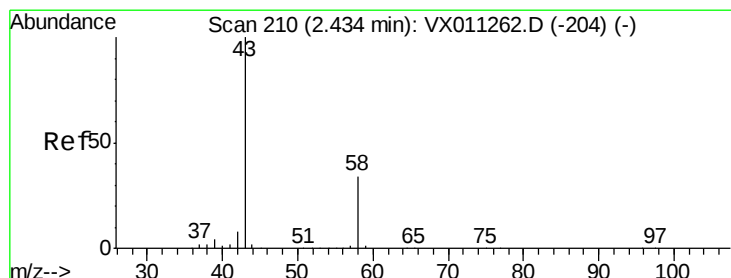
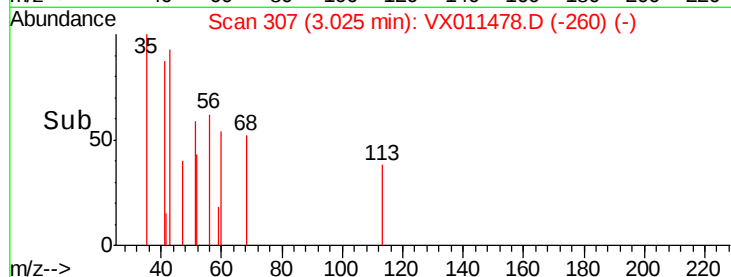
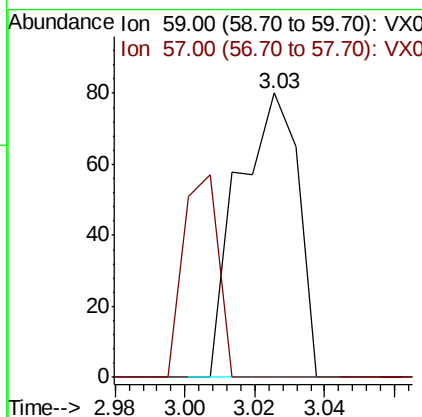
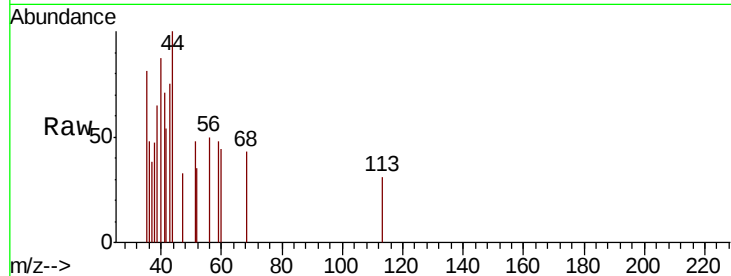




#11  
Tert butyl alcohol  
Concen: 0.269 ug/l  
RT: 3.03 min Scan# 307  
Delta R.T. -0.01 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

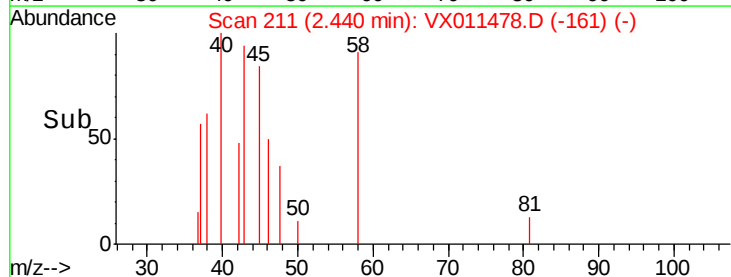
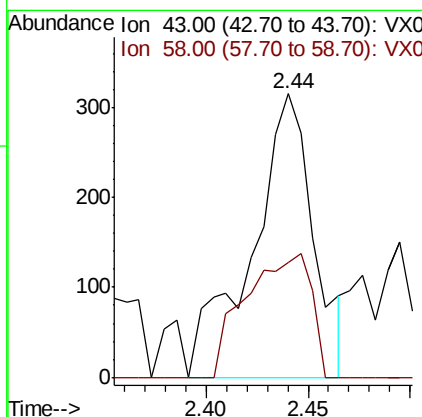
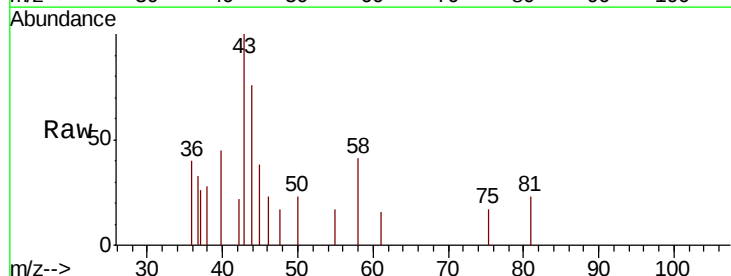
Instrument :  
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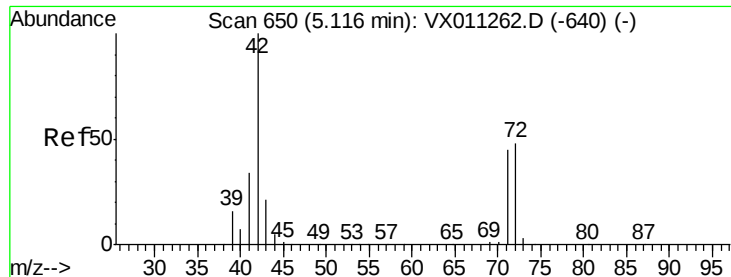
Tgt Ion: 59 Resp: 95  
Ion Ratio Lower Upper  
59 100  
57 42.1 8.3 12.5#



#16  
Acetone  
Concen: 0.722 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. 0.01 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

Tgt Ion: 43 Resp: 664  
Ion Ratio Lower Upper  
43 100  
58 40.6 27.4 41.0





#29

Tetrahydrofuran

Concen: 0.289 ug/l

RT: 5.12 min Scan# 650

Delta R.T. 0.00 min

Lab File: VX011478.D

Acq: 12 Aug 2019 13:09

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB203-GW-803-805

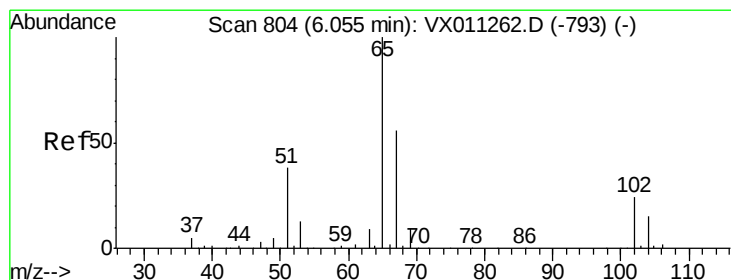
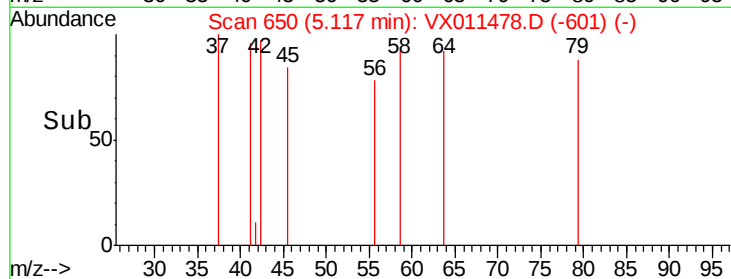
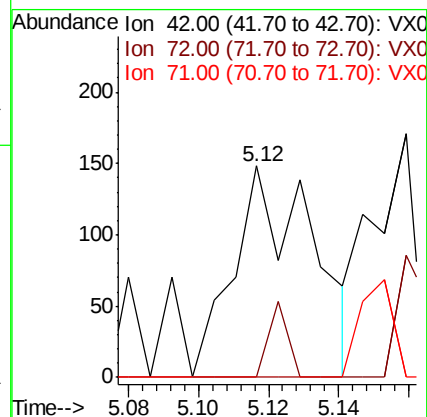
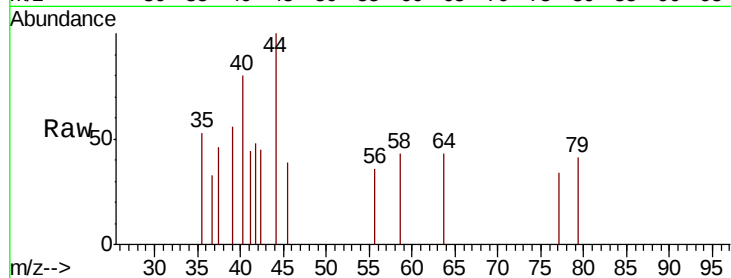
Tgt Ion: 42 Resp: 232

Ion Ratio Lower Upper

42 100

72 8.2 39.9 59.9#

71 0.0 36.9 55.3#



#33

1,2-Dichloroethane-d4

Concen: 54.590 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011478.D

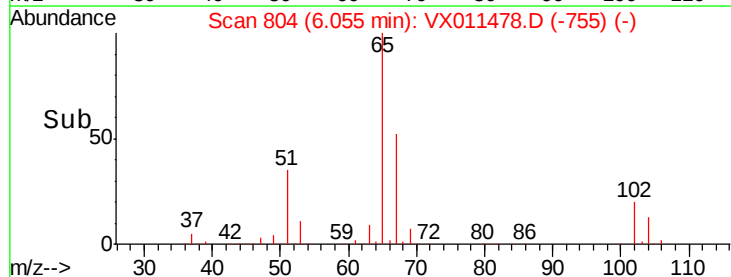
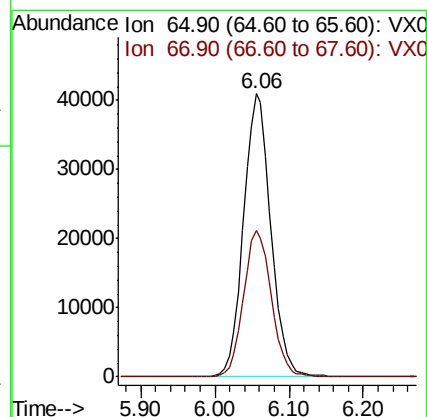
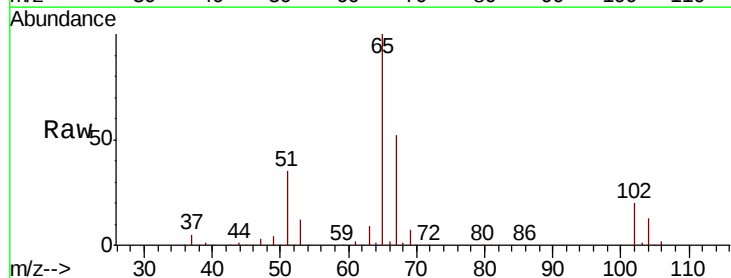
Acq: 12 Aug 2019 13:09

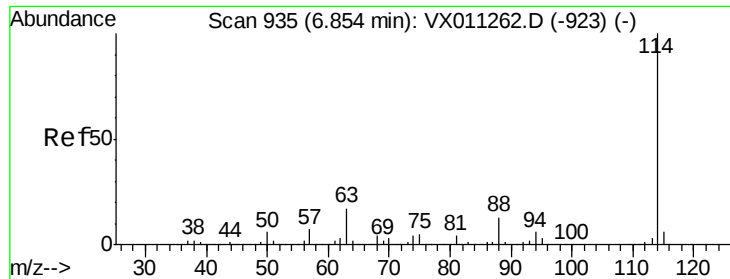
Tgt Ion: 65 Resp: 105427

Ion Ratio Lower Upper

65 100

67 52.9 0.0 110.6

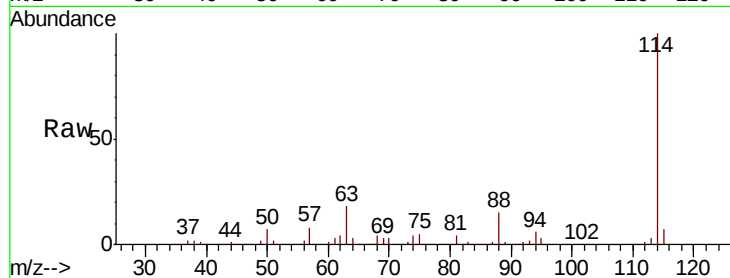




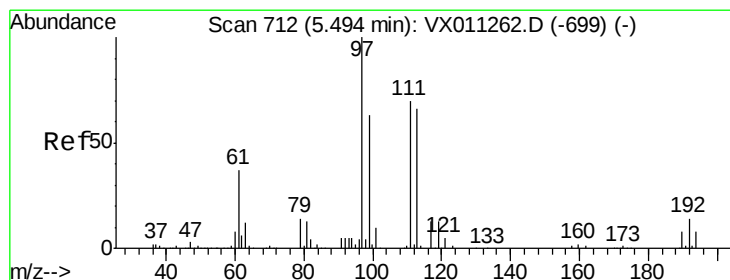
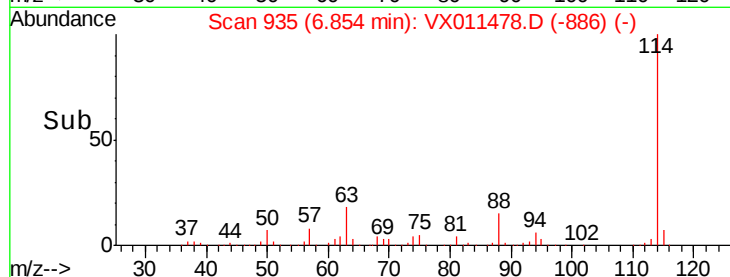
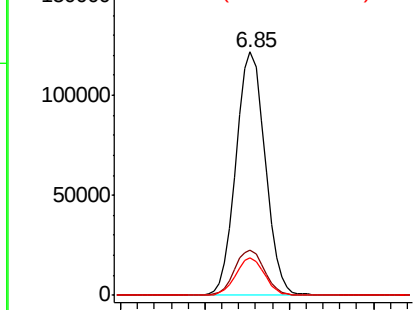
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011478.D  
 Acq: 12 Aug 2019 13:09

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB203-GW-803-805

Tgt Ion:114 Resp: 285478  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 0.0 34.0  
 88 15.2 0.0 26.4

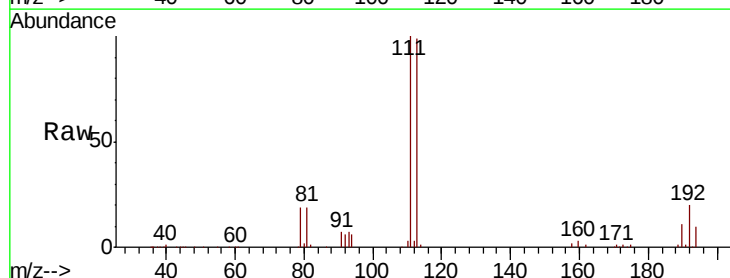


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

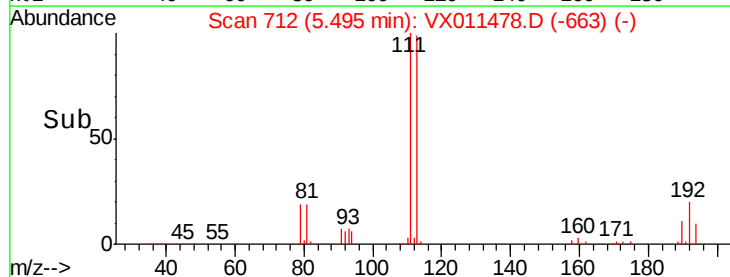
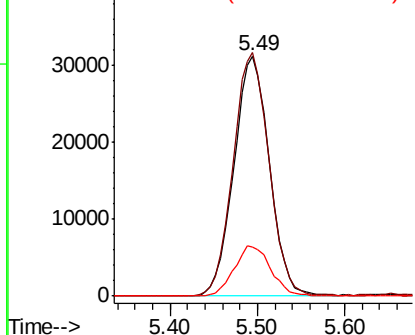


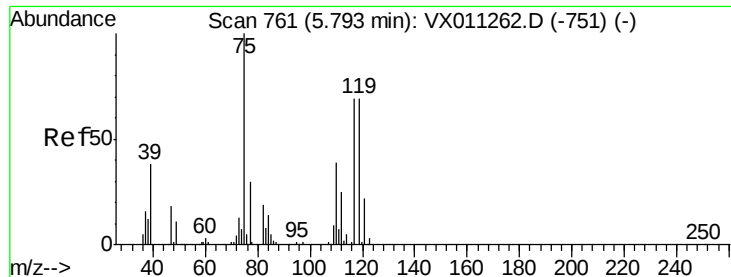
#35  
 Dibromofluoromethane  
 Concen: 47.344 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. 0.00 min  
 Lab File: VX011478.D  
 Acq: 12 Aug 2019 13:09

Tgt Ion:113 Resp: 88241  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 81.9 122.9  
 192 21.4 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

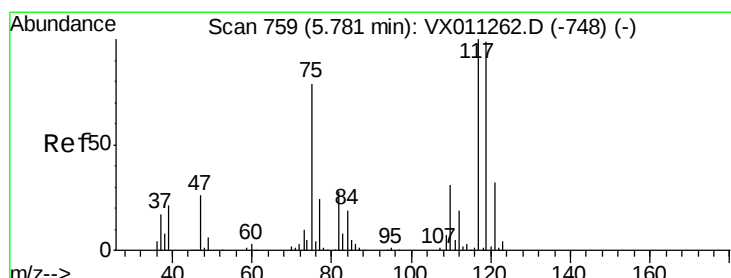
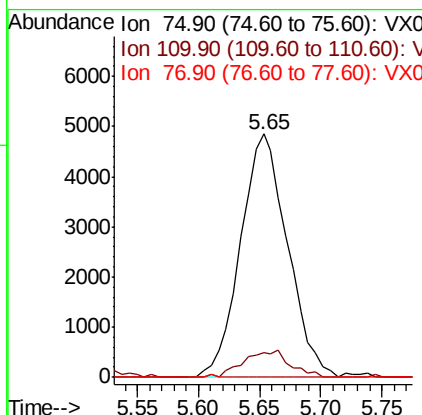
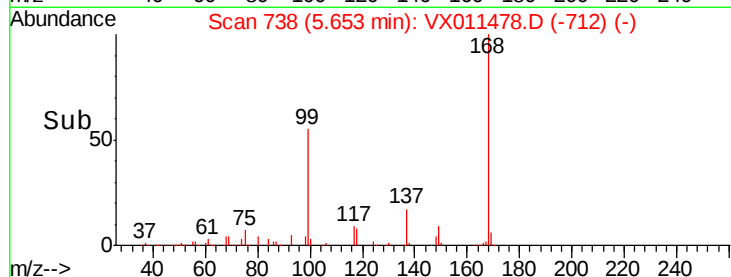
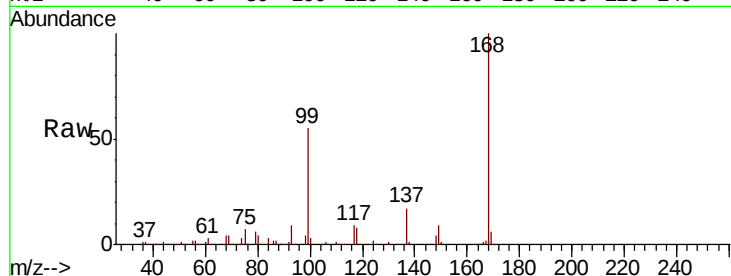




#36  
 1,1-Dichloropropene  
 Concen: 5.184 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.14 min  
 Lab File: VX011478.D  
 Acq: 12 Aug 2019 13:09

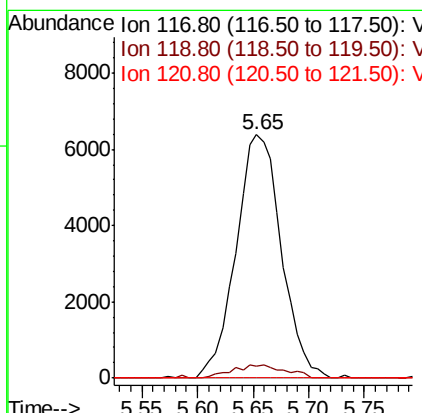
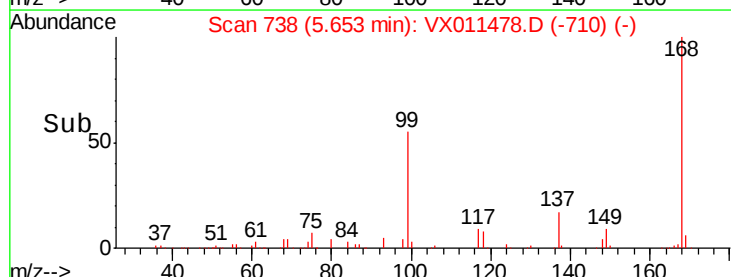
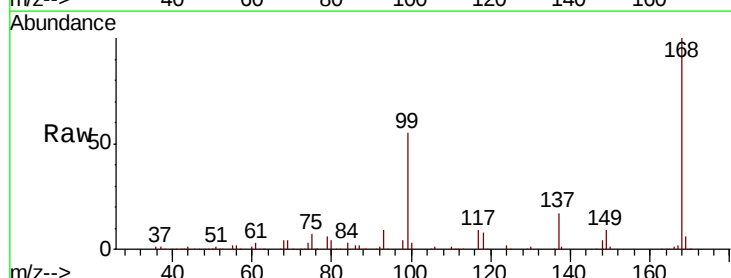
Instrument :  
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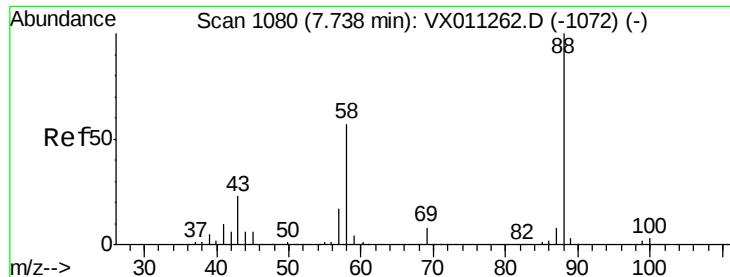
Tgt Ion: 75 Resp: 12922  
 Ion Ratio Lower Upper  
 75 100  
 110 10.8 20.0 59.9#  
 77 0.0 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 7.184 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.13 min  
 Lab File: VX011478.D  
 Acq: 12 Aug 2019 13:09

Tgt Ion: 117 Resp: 18014  
 Ion Ratio Lower Upper  
 117 100  
 119 4.7 79.0 118.4#  
 121 0.0 25.9 38.9#

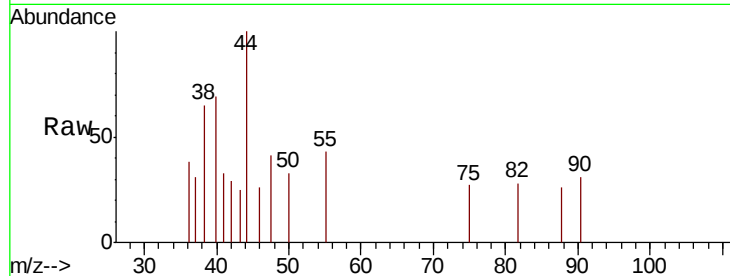




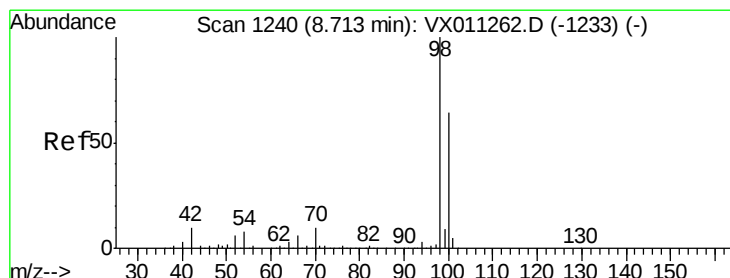
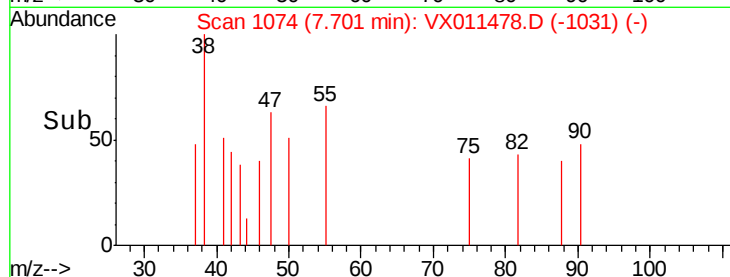
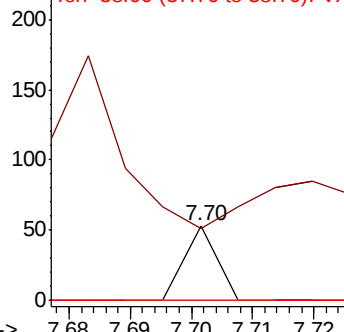
#49  
1,4-Dioxane  
Concen: 0.348 ug/l  
RT: 7.70 min Scan# 1074  
Delta R.T. -0.04 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-GW-803-805

Tgt Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 963.2 22.2 33.2#  
58 0.0 47.8 71.8#

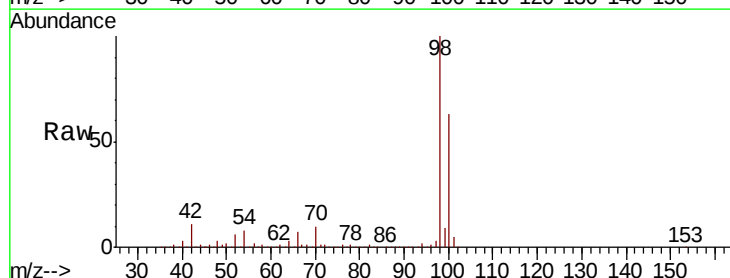


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

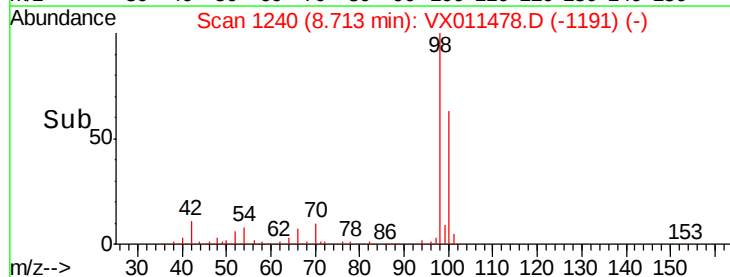
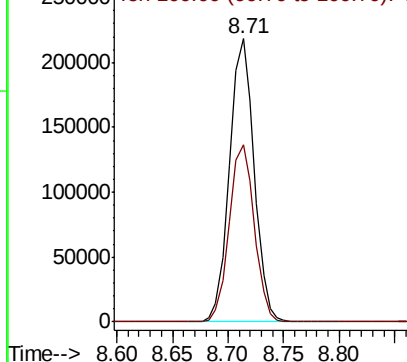


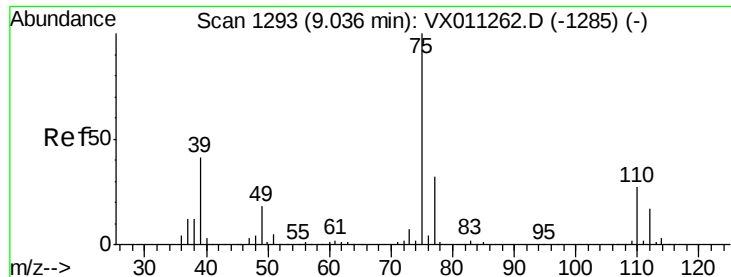
#50  
Toluene-d8  
Concen: 47.696 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

Tgt Ion: 98 Resp: 335558  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.7 77.5



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

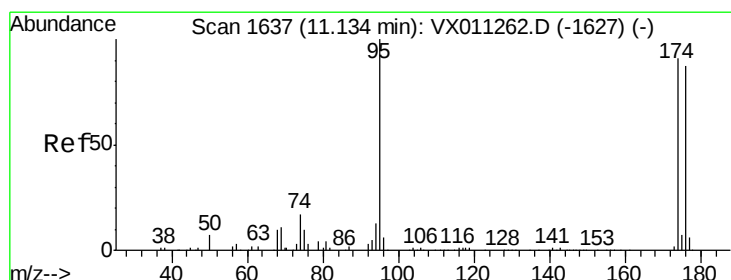
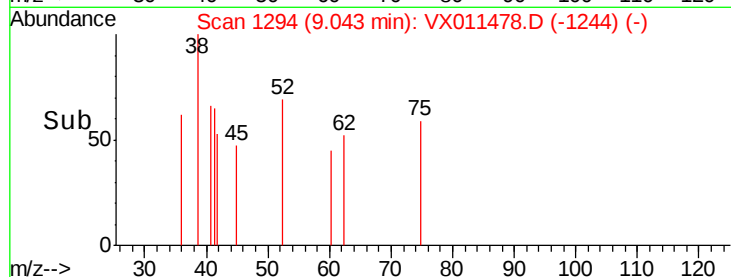
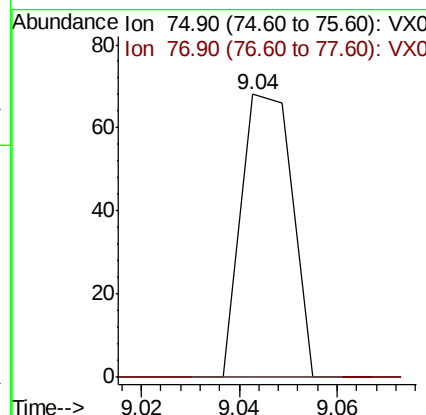
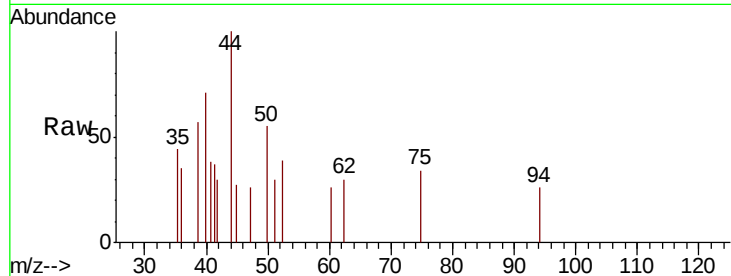




#53  
t-1,3-Dichloropropene  
Concen: 2.855 ug/l  
RT: 9.04 min Scan# 1294  
Delta R.T. 0.01 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

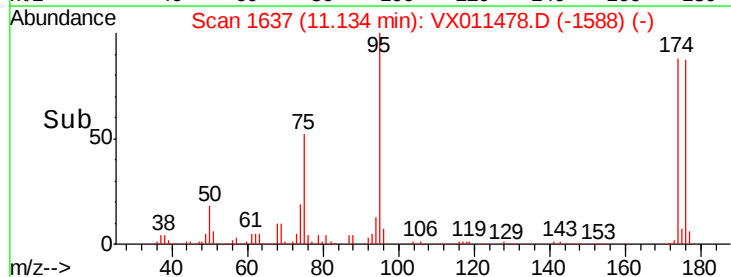
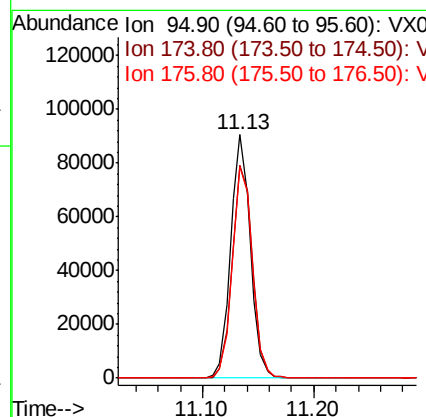
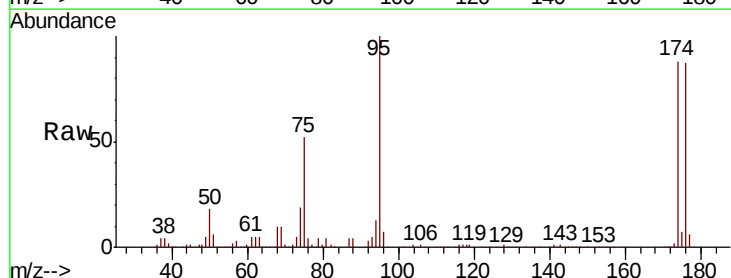
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-GW-803-805

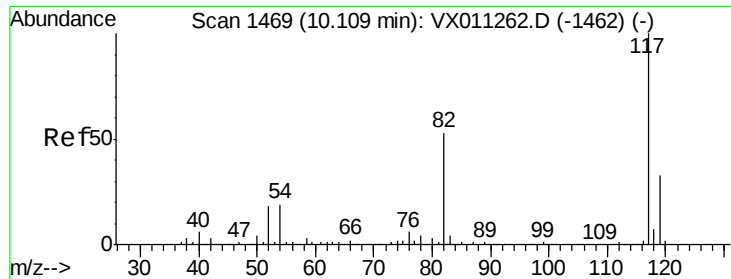
Tgt Ion: 75 Resp: 49  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.0#



#62  
4-Bromofluorobenzene  
Concen: 43.963 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

Tgt Ion: 95 Resp: 110428  
Ion Ratio Lower Upper  
95 100  
174 90.1 0.0 191.2  
176 88.5 0.0 184.8

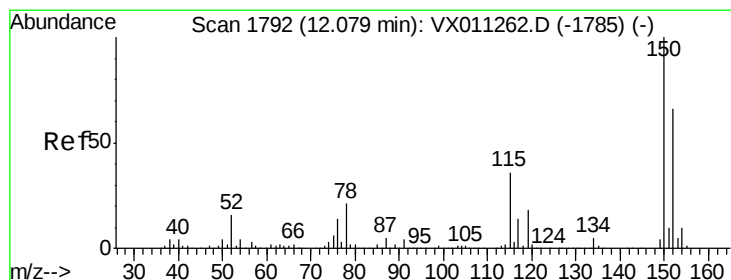
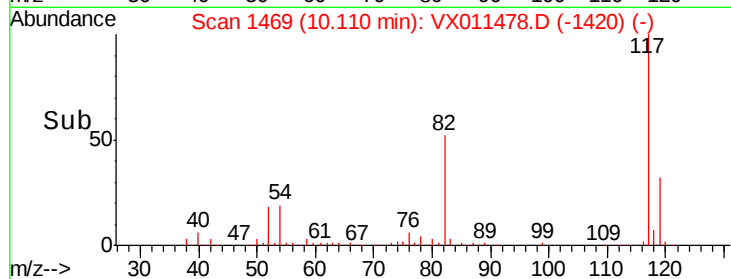
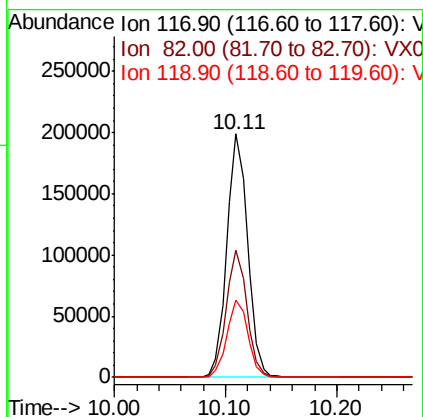
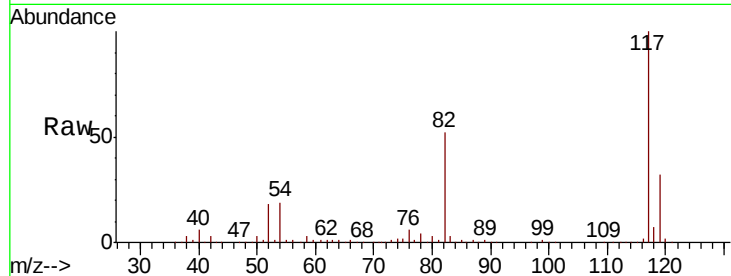




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

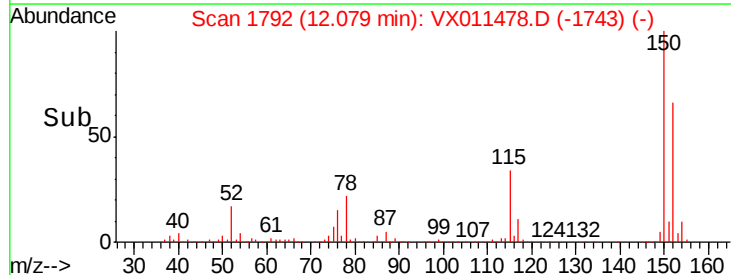
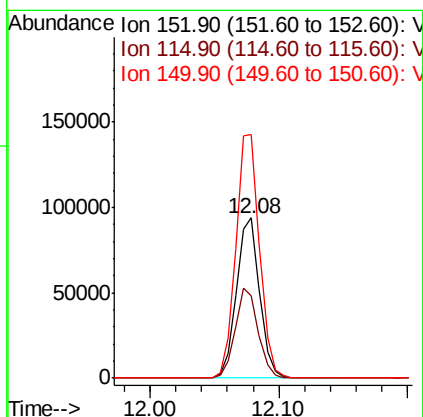
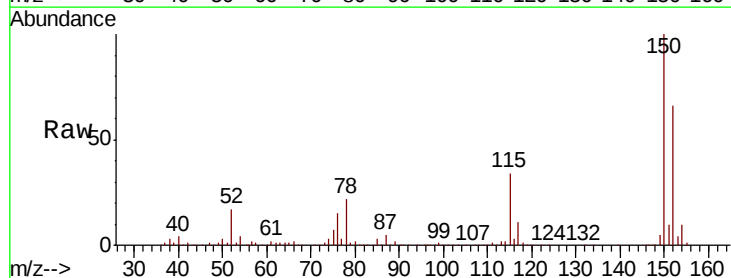
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB203-GW-803-805

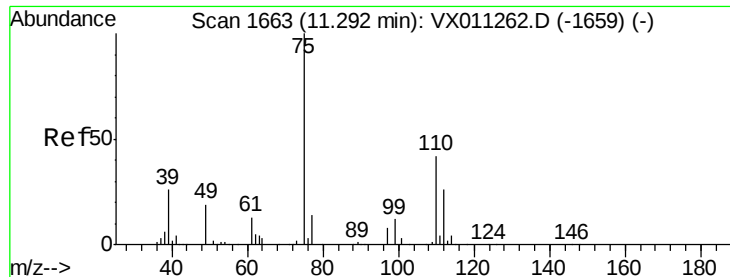
Tgt Ion:117 Resp: 258205  
Ion Ratio Lower Upper  
117 100  
82 52.3 42.2 63.2  
119 31.7 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX011478.D  
Acq: 12 Aug 2019 13:09

Tgt Ion:152 Resp: 116823  
Ion Ratio Lower Upper  
152 100  
115 56.0 40.0 119.9  
150 156.2 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 26.956 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011478.D

Acq: 12 Aug 2019 13:09

Instrument :

MSVOA\_X

ClientSampleId :

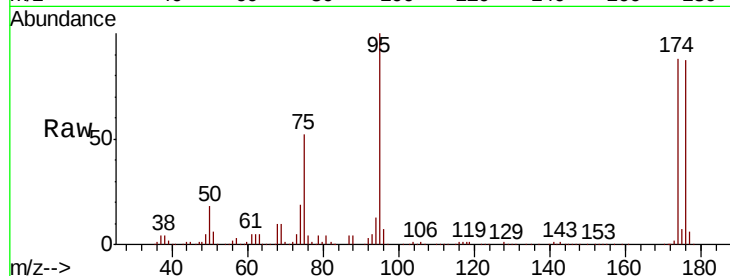
BP-VPB203-GW-803-805

Tgt Ion: 75 Resp: 57348

Ion Ratio Lower Upper

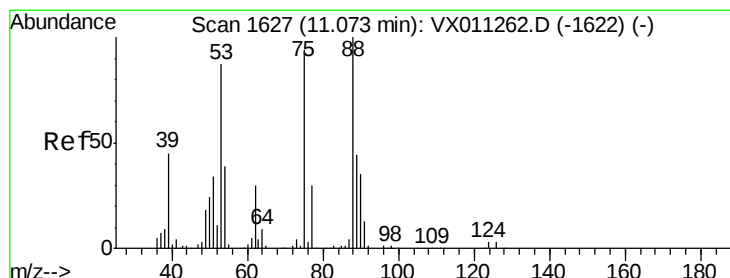
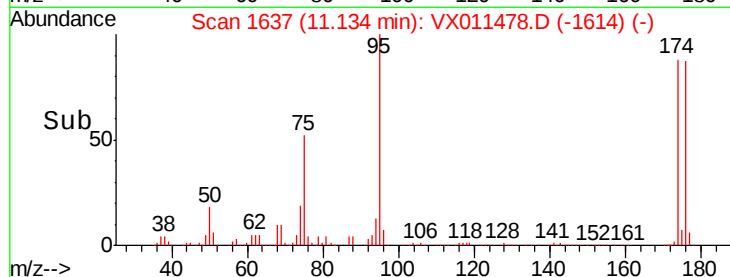
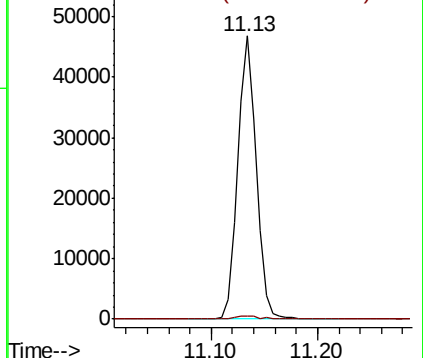
75 100

77 1.5 21.1 63.4#



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: 69.989 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011478.D

Acq: 12 Aug 2019 13:09

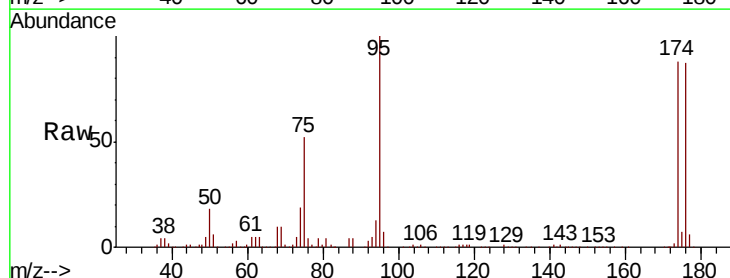
Tgt Ion: 75 Resp: 57348

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

