

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081920\  
 Data File : VX018013.D  
 Acq On : 20 Aug 2020 03:29  
 Operator : JC/SP  
 Sample : L3738-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB181-GW-418-420

Quant Time: Aug 20 04:28:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081920W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 05:36:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 483287   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 771670   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 677136   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 341060   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 343538   | 48.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.98% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 258000   | 44.90 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.80% |          |
| 50) Toluene-d8              | 8.70  | 98   | 956160   | 47.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.14% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 313797   | 41.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.66% |          |

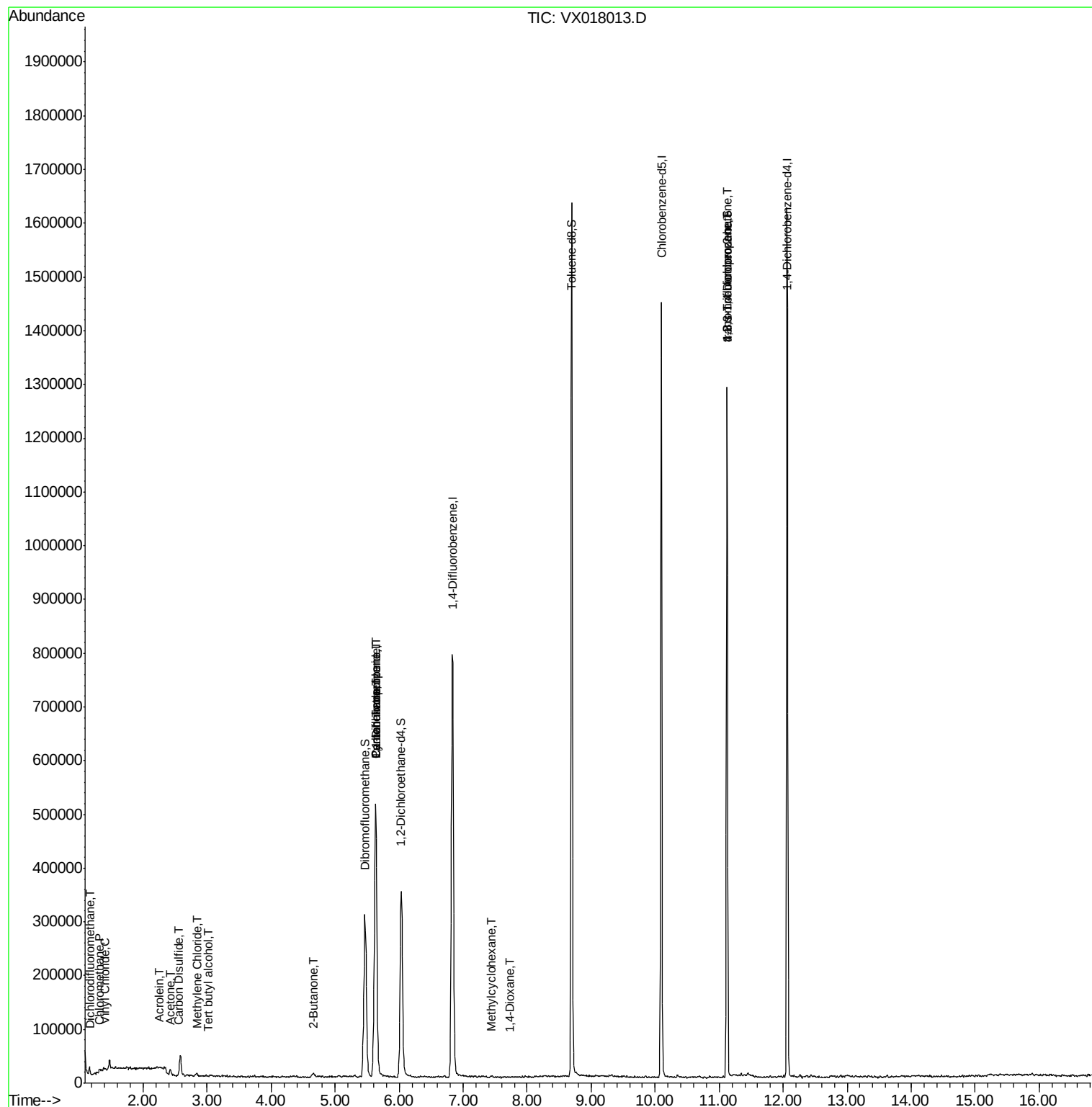
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.18  | 85   | 95       | 1.002  | ug/l # | 44     |
| 3) Chloromethane               | 1.31  | 50   | 3284     | 0.497  | ug/l   | 99     |
| 4) Vinyl Chloride              | 1.40  | 62   | 212      | 2.289  | ug/l # | 44     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 320      | 0.234  | ug/l # | 71     |
| 13) Acrolein                   | 2.26  | 56   | 482      | 0.667  | ug/l   | 88     |
| 16) Acetone                    | 2.42  | 43   | 10103    | 3.625  | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.56  | 76   | 5281     | 0.500  | ug/l   | 97     |
| 20) Methylene Chloride         | 2.84  | 84   | 2611     | 0.508  | ug/l # | 86     |
| 25) 2-Butanone                 | 4.67  | 43   | 2255     | 0.534  | ug/l   | 96     |
| 31) Cyclohexane                | 5.64  | 56   | 9979     | 1.363  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 37140    | 5.750  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 49460    | 5.917  | ug/l # | 19     |
| 39) Methylcyclohexane          | 7.43  | 83   | 189      | 0.836  | ug/l # | 39     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 366      | 2.891  | ug/l # | 27     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 163747   | 22.576 | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 163747   | 59.310 | ug/l # | 12     |

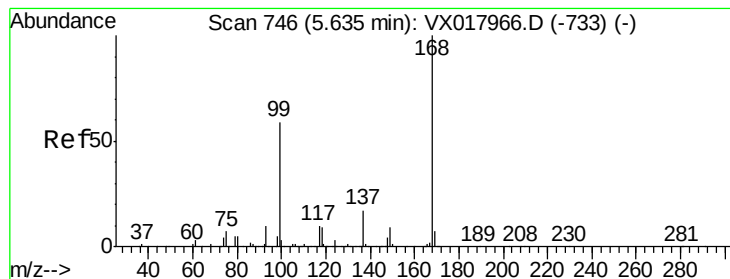
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 20 04:28:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081920W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 19 05:36:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX018013.D

Acq: 20 Aug 2020 03:29

Instrument :

MSVOA\_X

ClientSampleId :

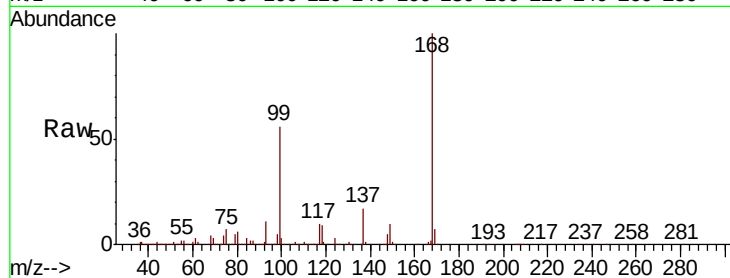
BP-VPB181-GW-418-420

Tot Ion:168 Resp: 483287

Ion Ratio Lower Upper

168 100

99 55.9 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

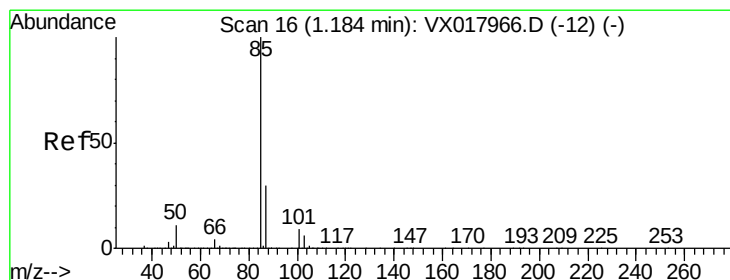
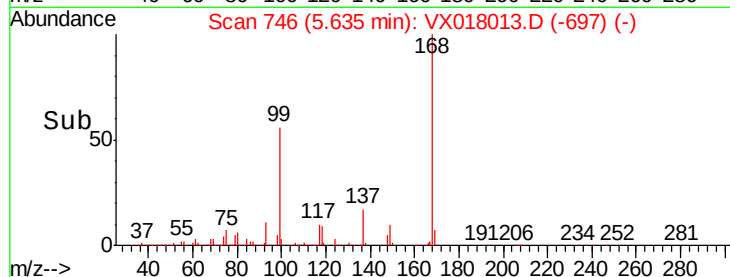
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.002 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018013.D

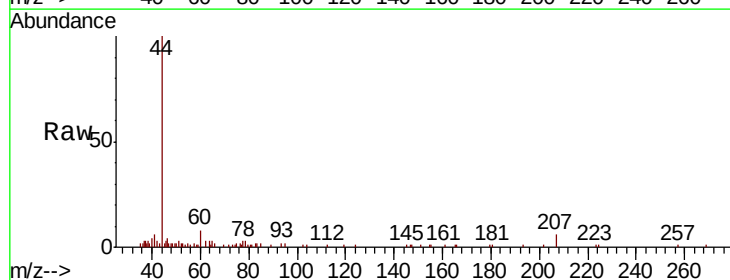
Acq: 20 Aug 2020 03:29

Tgt Ion: 85 Resp: 95

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

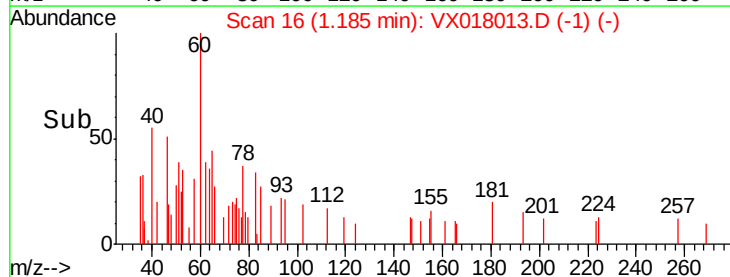
150

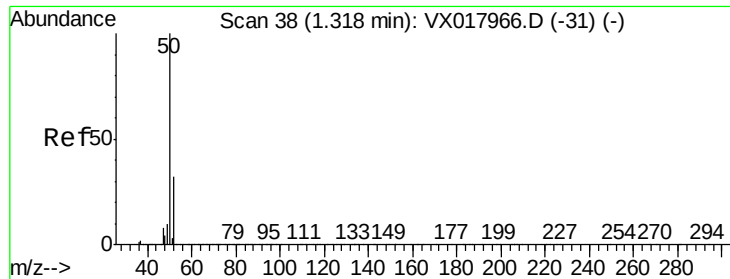
100

50

0

Time-->





#3

Chloromethane

Concen: 0.497 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.01 min

Lab File: VX018013.D

Acq: 20 Aug 2020 03:29

Instrument :

MSVOA\_X

ClientSampleId :

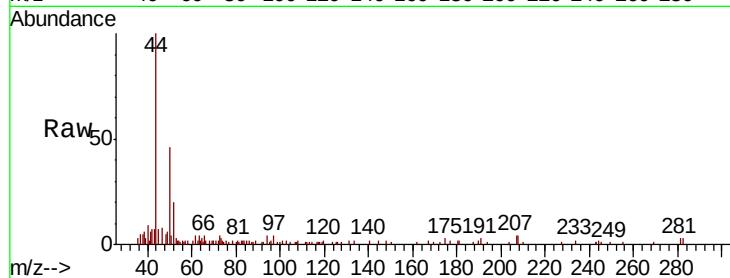
BP-VPB181-GW-418-420

Tot Ion: 50 Resp: 3284

Ion Ratio Lower Upper

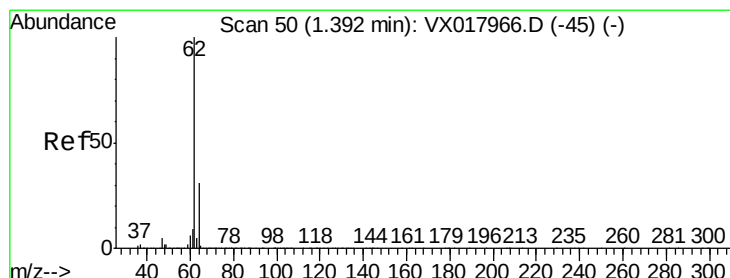
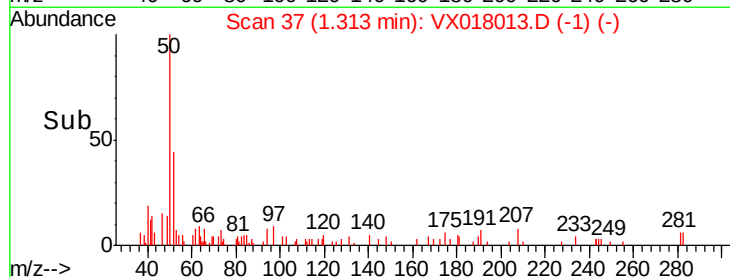
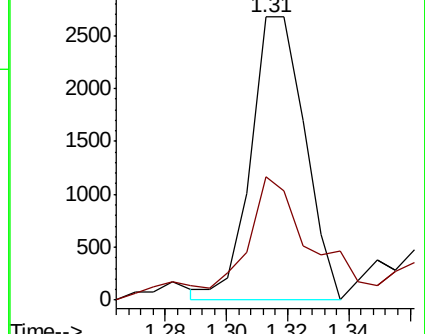
50 100

52 32.5 25.4 38.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 2.289 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX018013.D

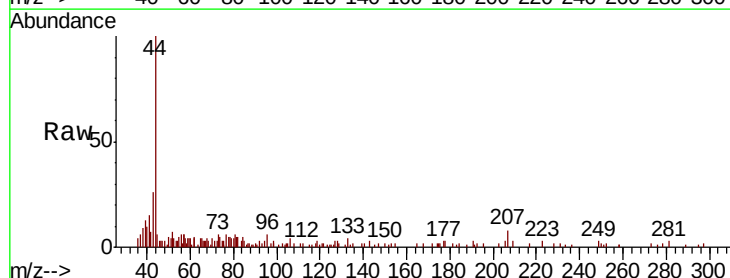
Acq: 20 Aug 2020 03:29

Tgt Ion: 62 Resp: 212

Ion Ratio Lower Upper

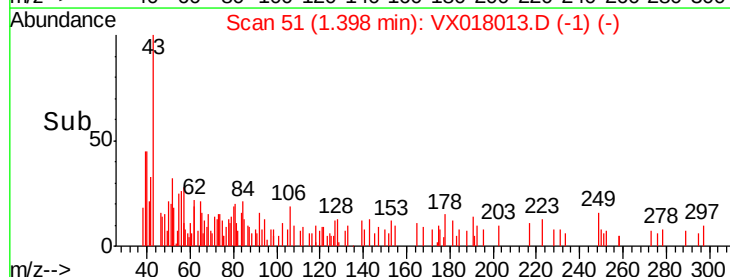
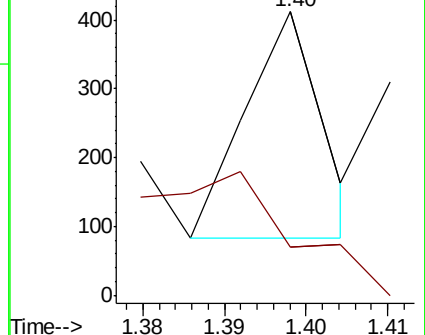
62 100

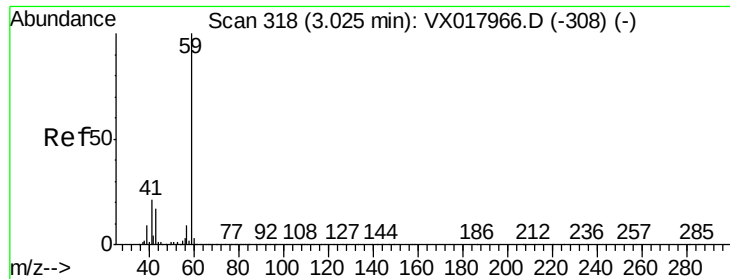
64 0.0 24.7 37.1#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



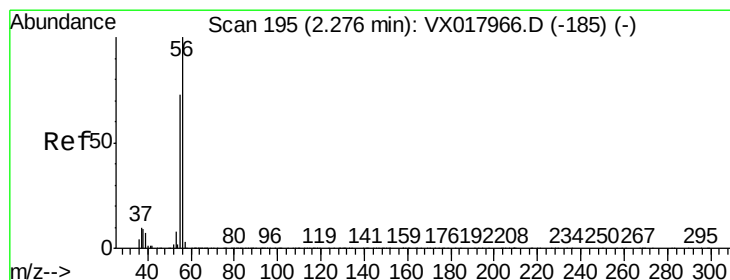
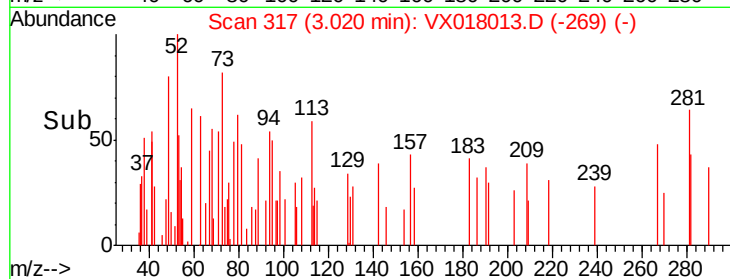
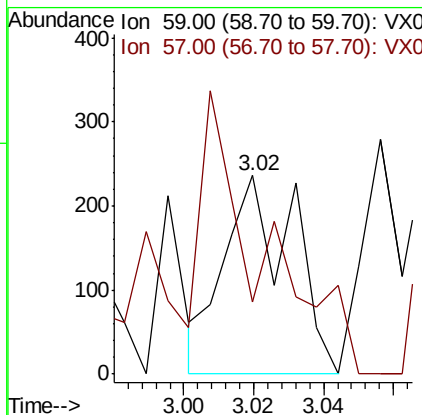
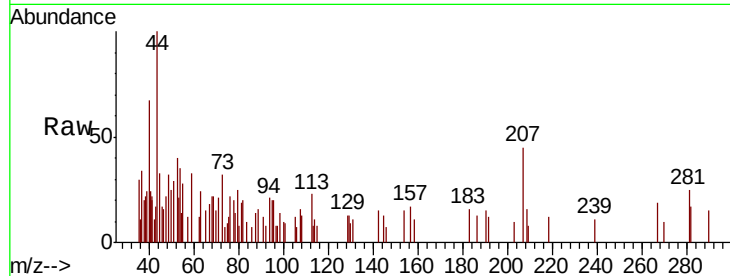


#11

Tert butyl alcohol  
Concen: 0.234 ug/l  
RT: 3.02 min Scan# 317  
Delta R.T. -0.01 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB181-GW-418-420

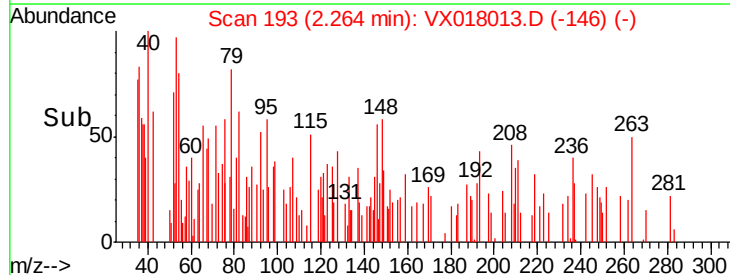
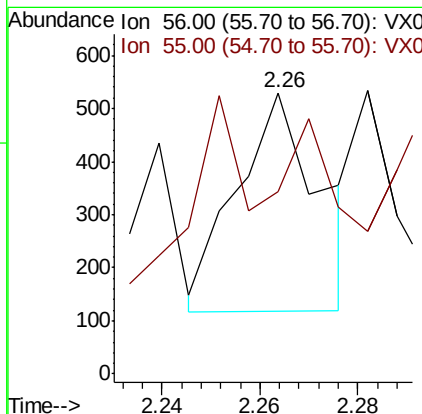
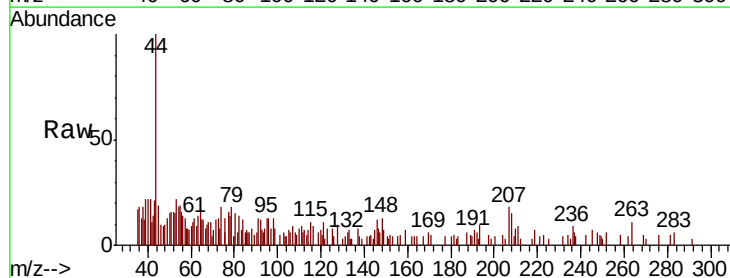
Tot Ion: 59 Resp: 320  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 13.0#

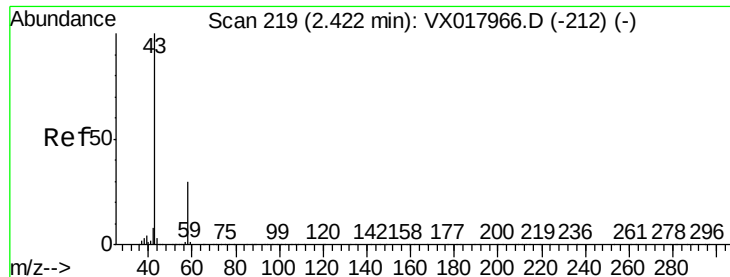


#13

Acrolein  
Concen: 0.667 ug/l  
RT: 2.26 min Scan# 193  
Delta R.T. -0.01 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

Tgt Ion: 56 Resp: 482  
Ion Ratio Lower Upper  
56 100  
55 63.1 58.2 87.4

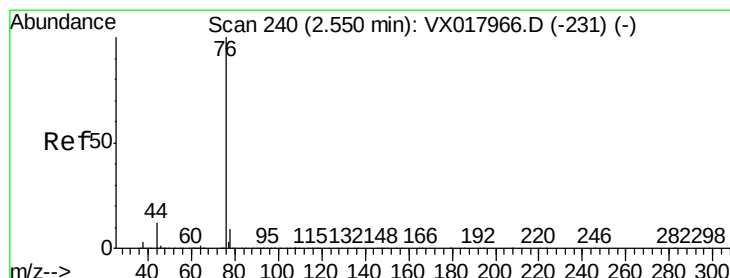
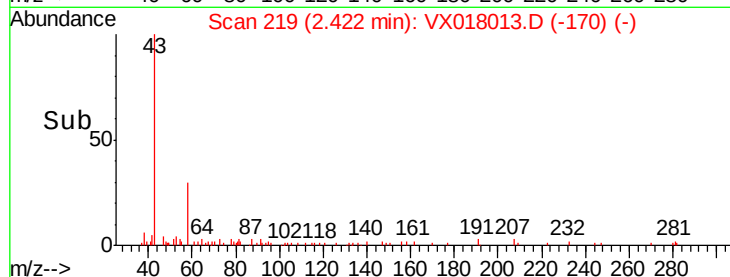
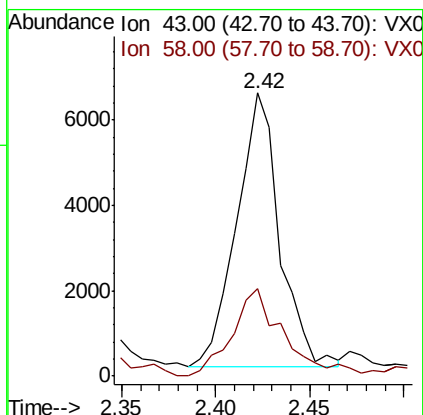
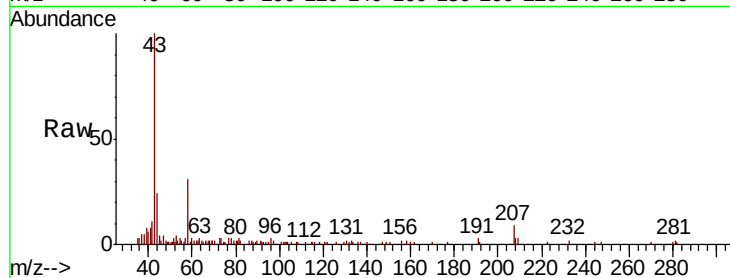




#16  
Acetone  
Concen: 3.625 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. 0.00 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

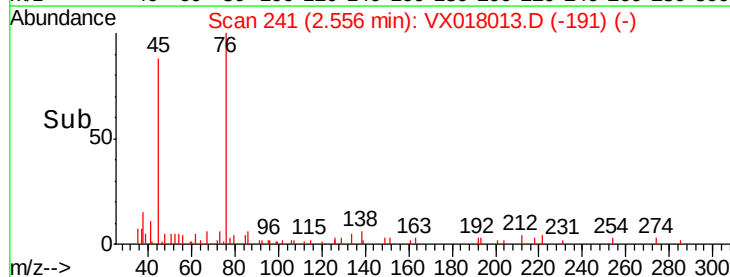
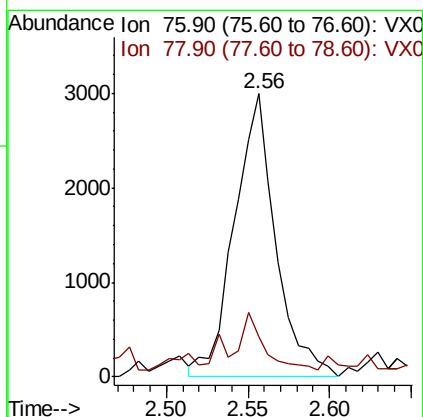
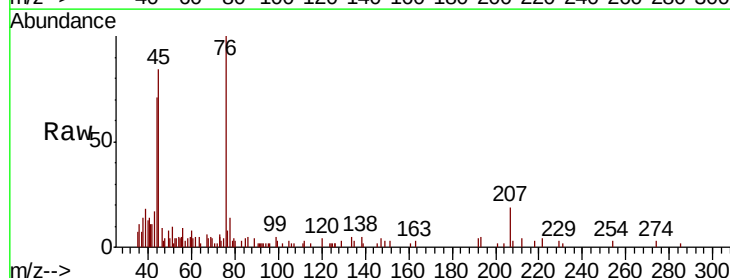
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB181-GW-418-420

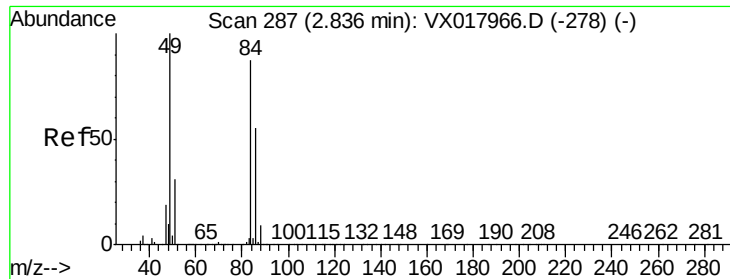
Tot Ion: 43 Resp: 10103  
Ion Ratio Lower Upper  
43 100  
58 32.1 23.8 35.8



#17  
Carbon Disulfide  
Concen: 0.500 ug/l  
RT: 2.56 min Scan# 241  
Delta R.T. 0.01 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

Tgt Ion: 76 Resp: 5281  
Ion Ratio Lower Upper  
76 100  
78 10.0 7.3 10.9

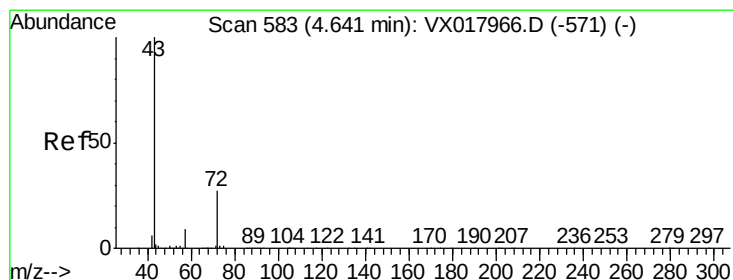
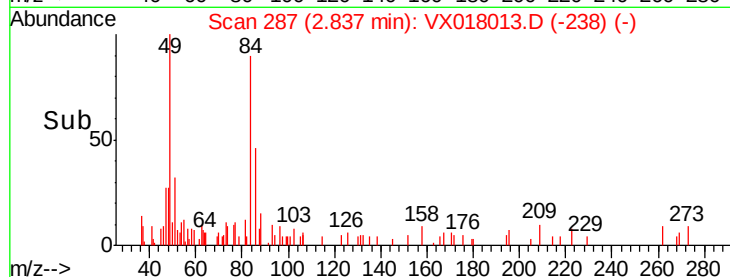
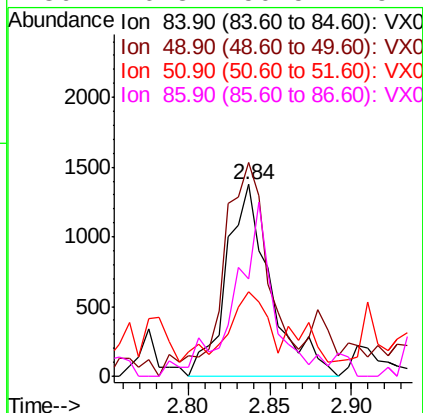
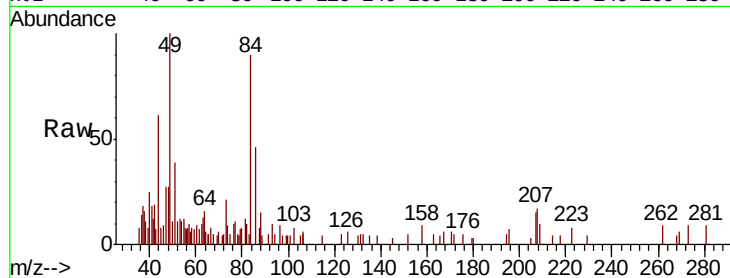




#20  
Methylene Chloride  
Concen: 0.508 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. 0.00 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

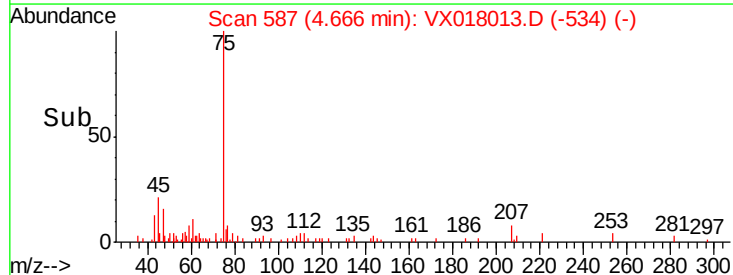
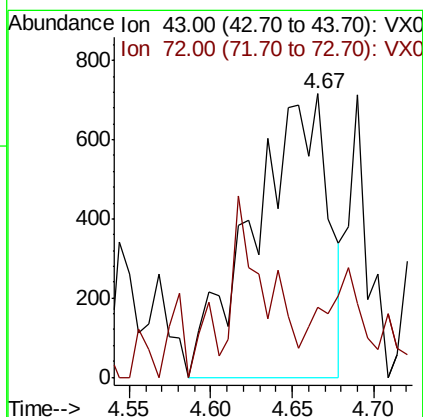
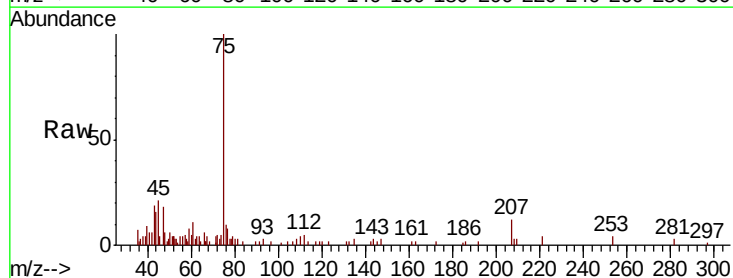
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB181-GW-418-420

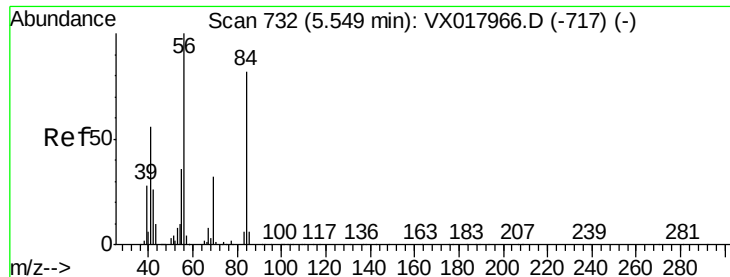
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 2611  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 100.7 | 91.8  | 137.6 |
| 51       | 35.7  | 27.8  | 41.8  |
| 86       | 46.3  | 50.5  | 75.7# |



#25  
2-Butanone  
Concen: 0.534 ug/l  
RT: 4.67 min Scan# 587  
Delta R.T. 0.02 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2255  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 24.7  | 21.4  | 32.2  |

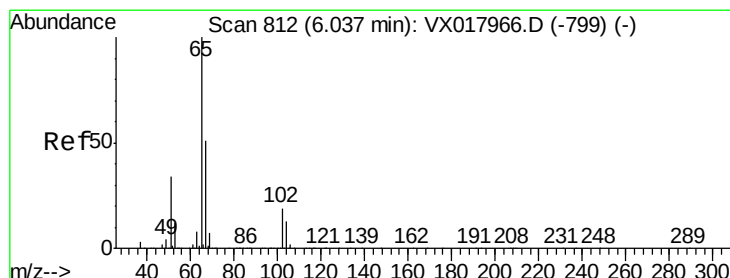
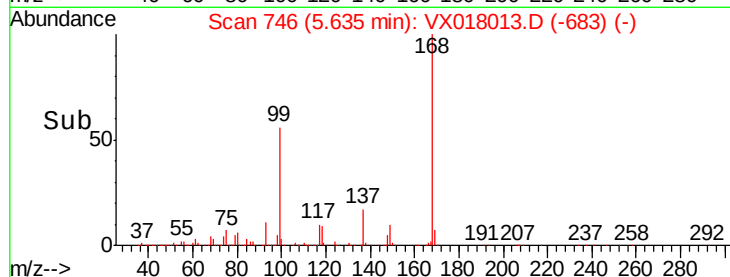
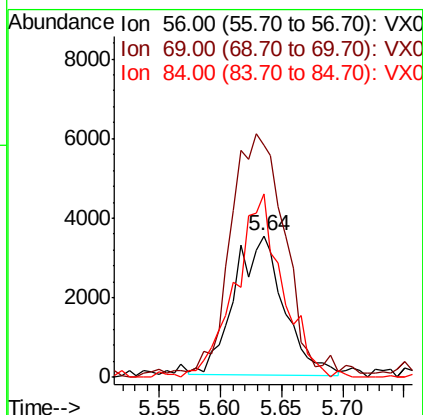
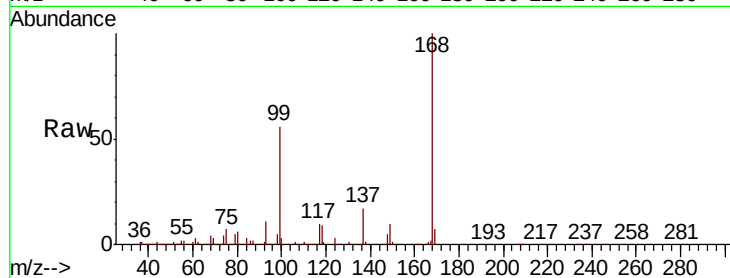




#31  
Cyclohexane  
Concen: 1.363 ug/l  
RT: 5.64 min Scan# 746  
Delta R.T. 0.09 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

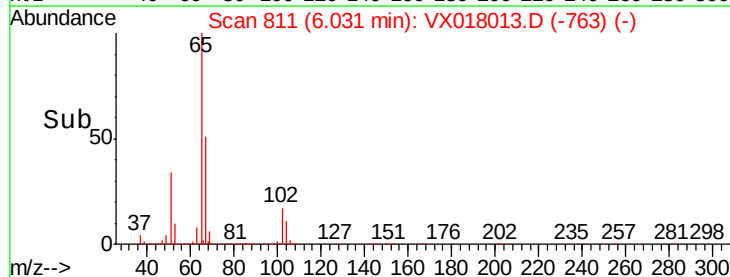
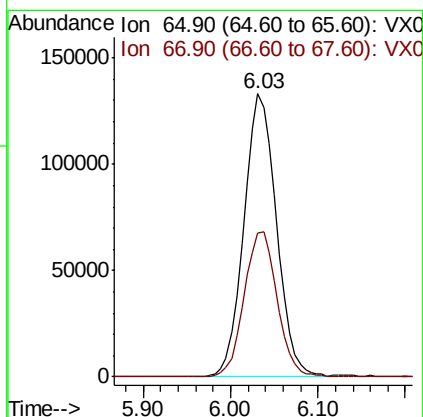
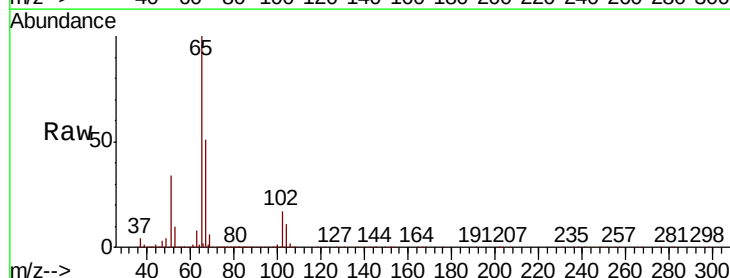
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB181-GW-418-420

Tot Ion: 56 Resp: 9979  
Ion Ratio Lower Upper  
56 100  
69 168.1 25.3 37.9#  
84 131.0 65.3 97.9#

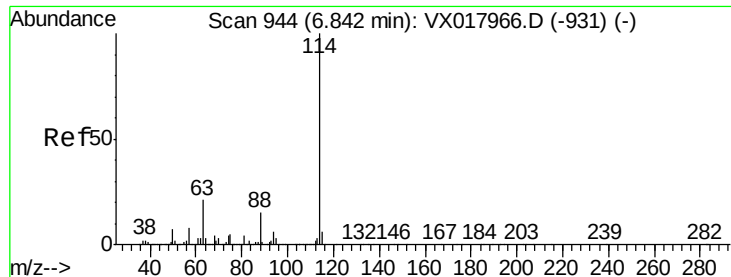


#33  
1,2-Dichloroethane-d4  
Concen: 48.491 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

Tgt Ion: 65 Resp: 343538  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 103.0







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.01 min

Lab File: VX018013.D

Acq: 20 Aug 2020 03:29

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB181-GW-418-420

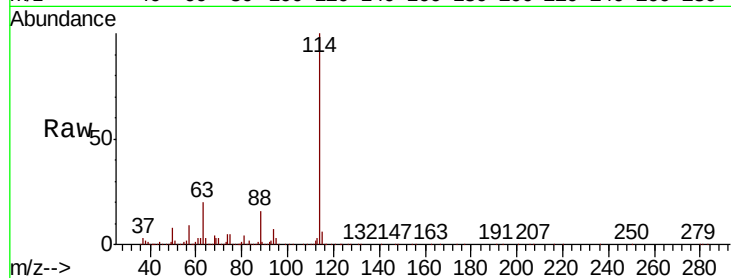
Tot Ion:114 Resp: 771670

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

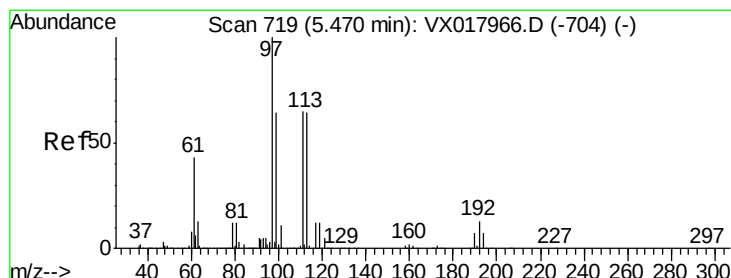
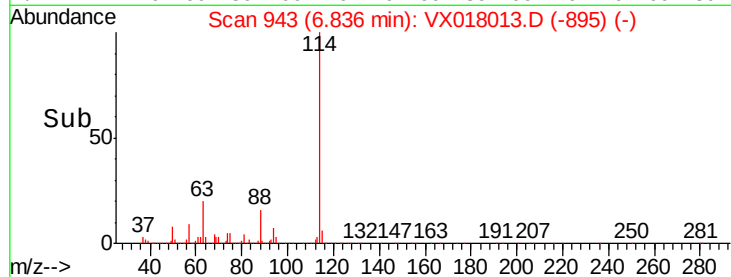
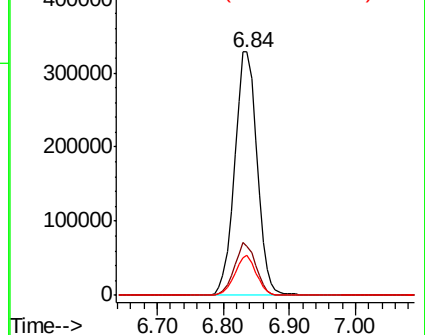
88 16.4 0.0 30.2



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: 44.897 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018013.D

Acq: 20 Aug 2020 03:29

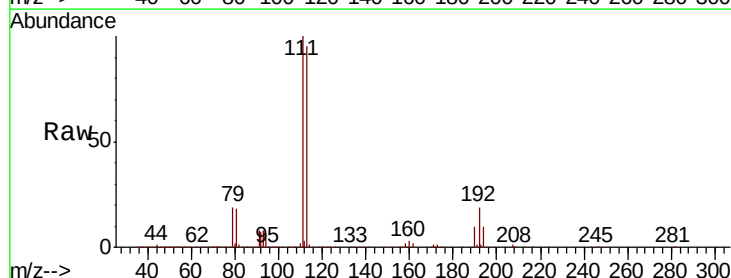
Tgt Ion:113 Resp: 258000

Ion Ratio Lower Upper

113 100

111 104.0 83.5 125.3

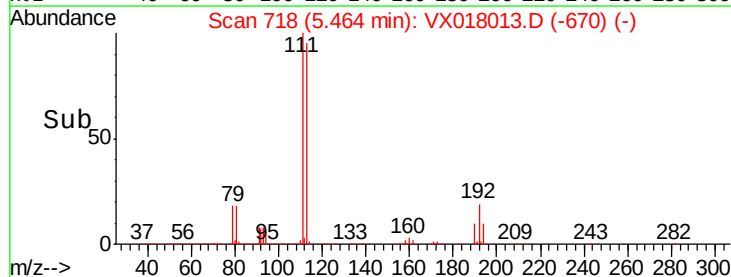
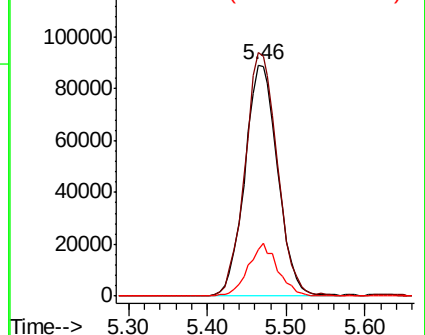
192 20.5 16.2 24.4

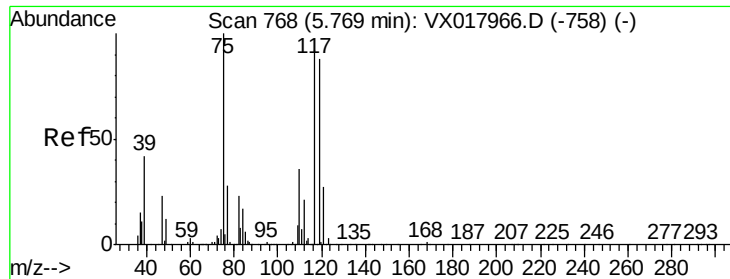


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

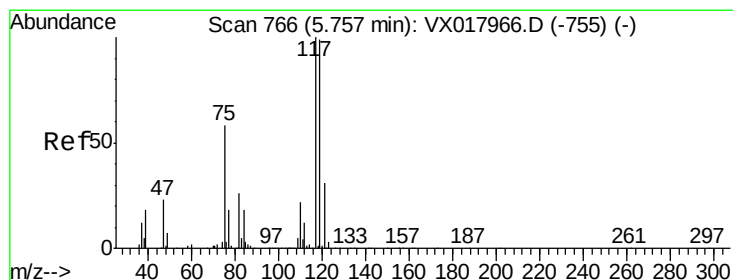
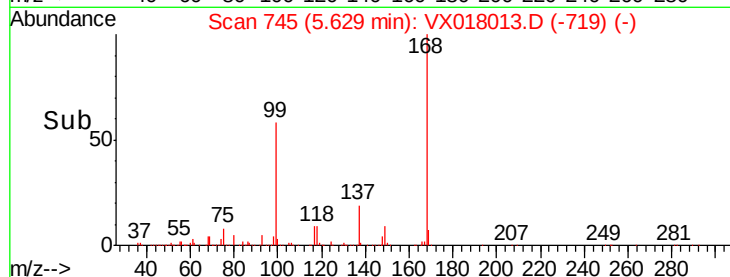
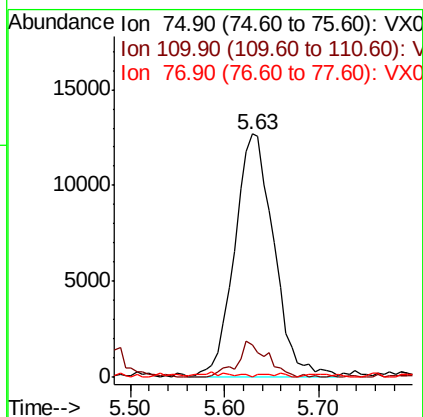
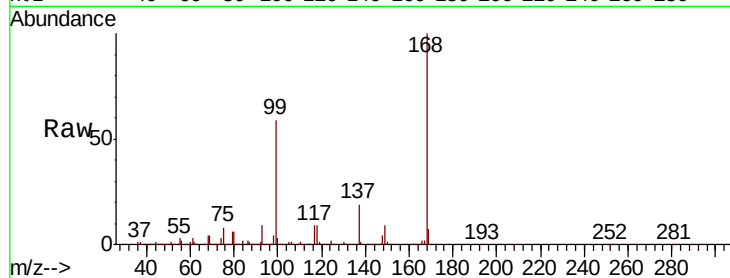




#36  
 1,1-Dichloropropene  
 Concen: 5.750 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX018013.D  
 Acq: 20 Aug 2020 03:29

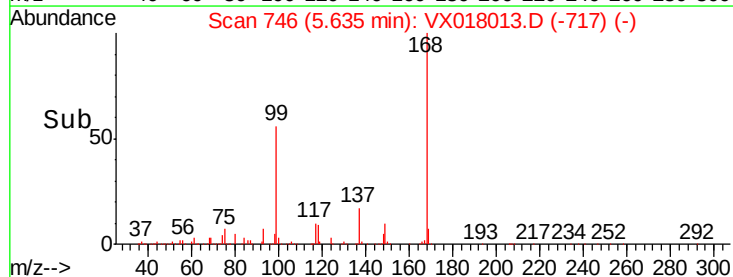
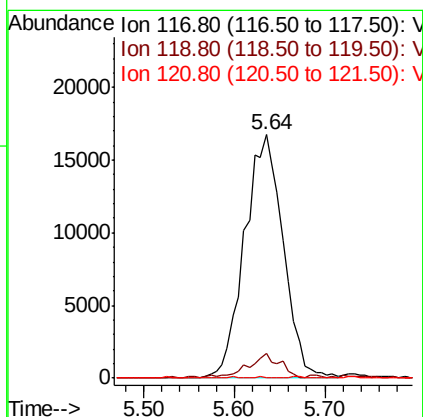
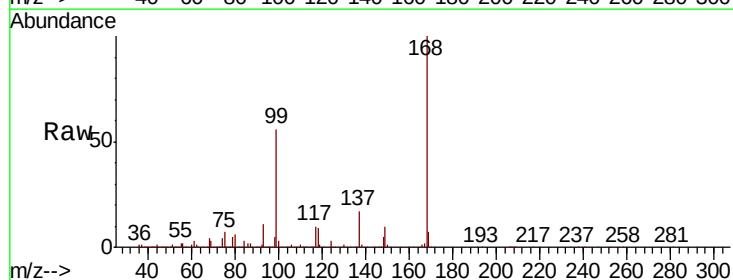
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB181-GW-418-420

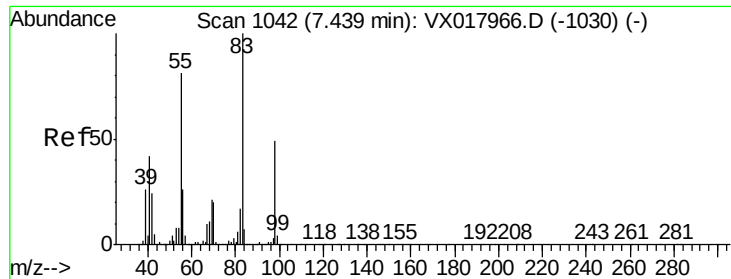
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.3  | 18.7  | 56.1# |
| 77      | 0.5   | 24.4  | 36.6# |



#38  
 Carbon Tetrachloride  
 Concen: 5.917 ug/l  
 RT: 5.64 min Scan# 746  
 Delta R.T. -0.12 min  
 Lab File: VX018013.D  
 Acq: 20 Aug 2020 03:29

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 9.9   | 79.0  | 118.6# |
| 121     | 0.4   | 24.7  | 37.1#  |

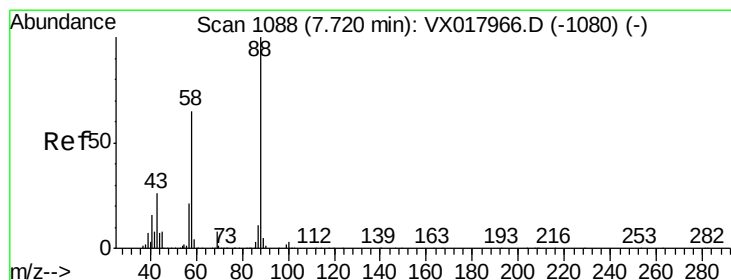
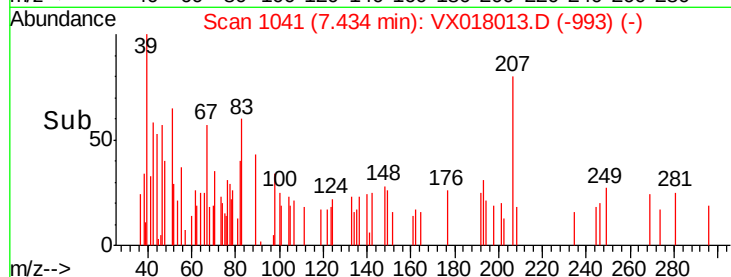
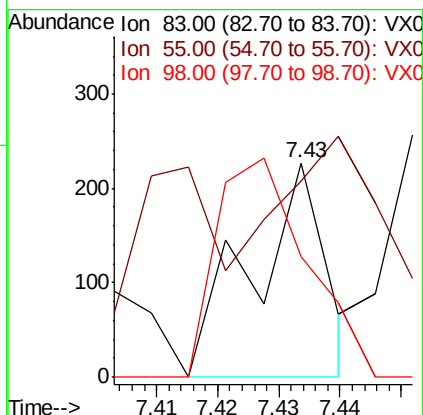
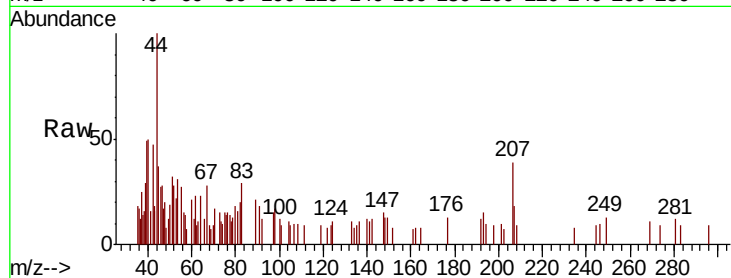




#39  
Methylcyclohexane  
Concen: 0.836 ug/l  
RT: 7.43 min Scan# 1041  
Delta R.T. -0.01 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

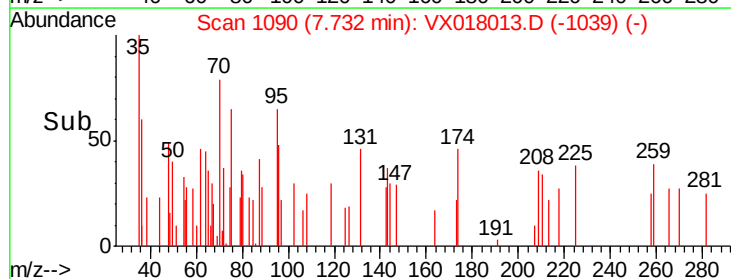
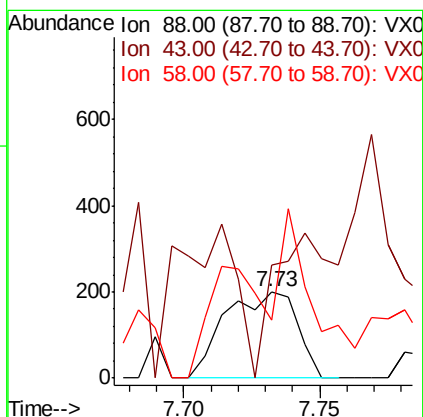
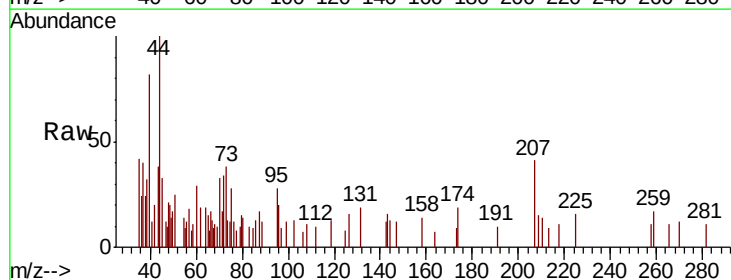
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB181-GW-418-420

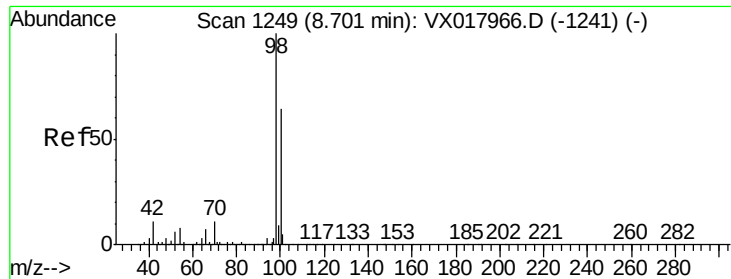
Tot Ion: 83 Resp: 189  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.5 96.7#  
98 56.4 39.0 58.6



#49  
1,4-Dioxane  
Concen: 2.891 ug/l  
RT: 7.73 min Scan# 1090  
Delta R.T. 0.01 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

Tgt Ion: 88 Resp: 366  
Ion Ratio Lower Upper  
88 100  
43 140.7 27.3 40.9#  
58 56.0 57.7 86.5#

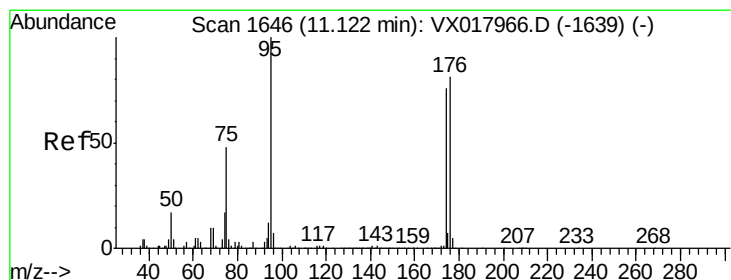
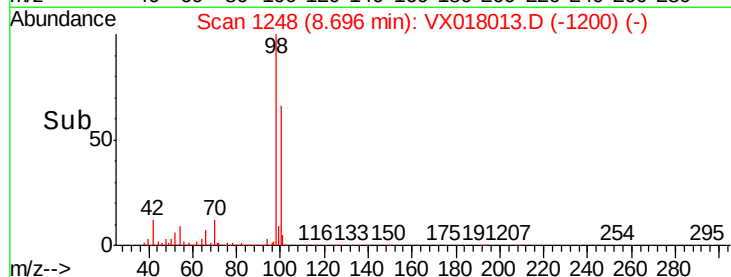
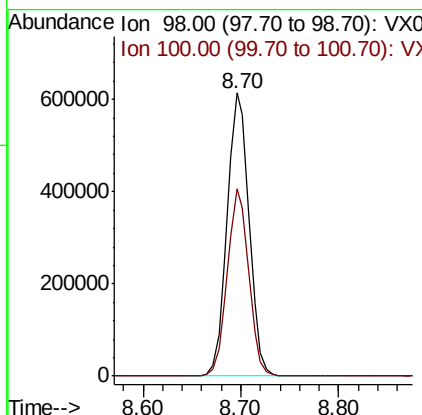
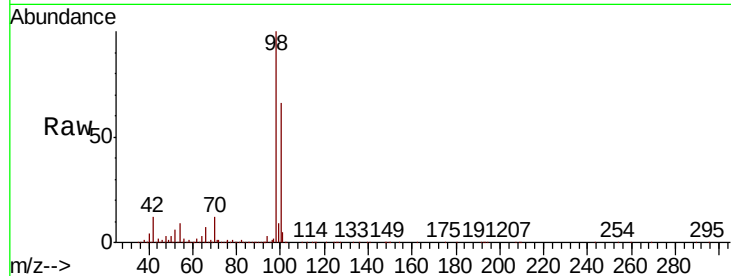




#50  
Toluene-d8  
Concen: 47.072 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.01 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

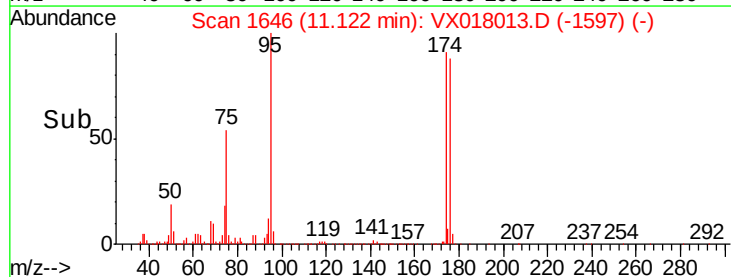
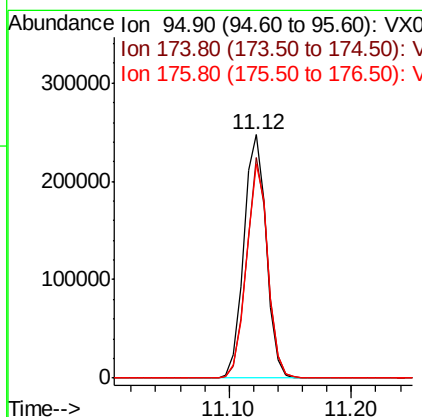
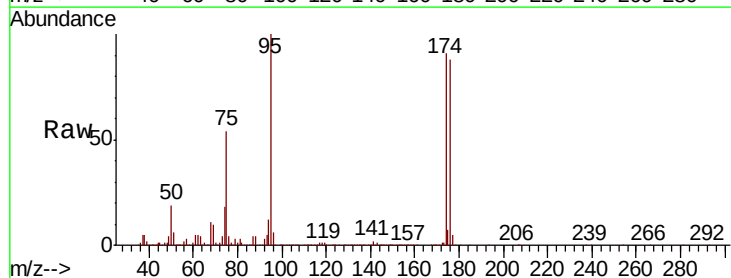
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB181-GW-418-420

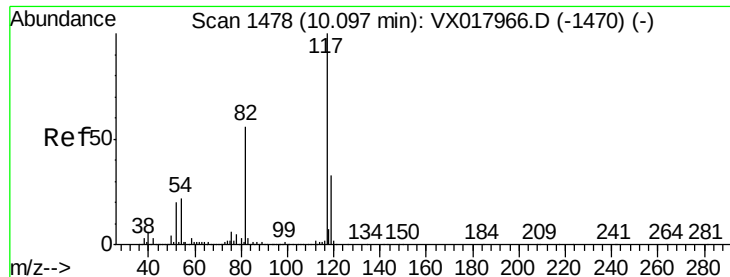
Tot Ion: 98 Resp: 956160  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.4 77.2



#62  
4-Bromofluorobenzene  
Concen: 41.827 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.00 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

Tgt Ion: 95 Resp: 313797  
Ion Ratio Lower Upper  
95 100  
174 85.4 0.0 166.0  
176 84.8 0.0 161.0

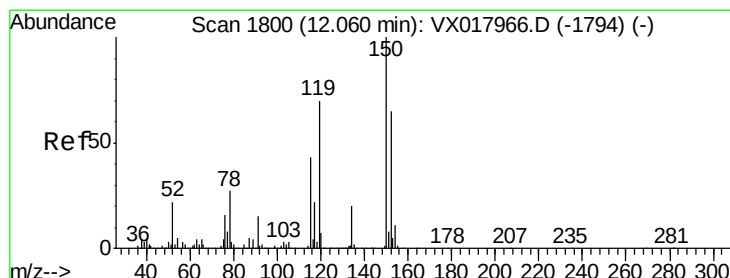
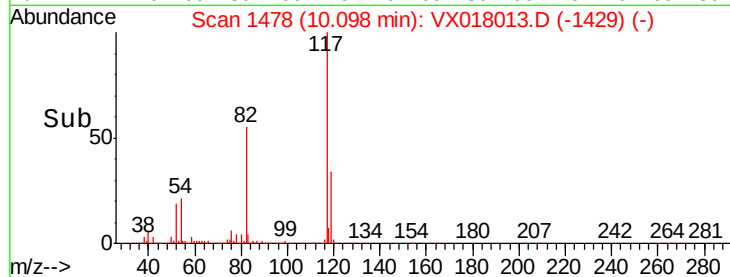
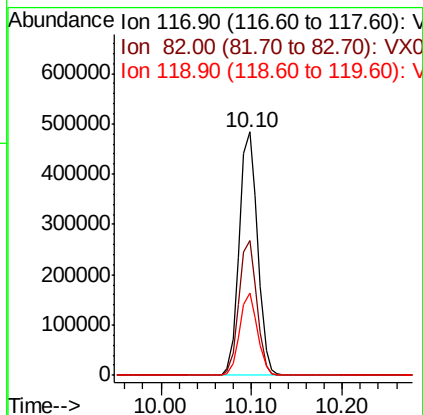
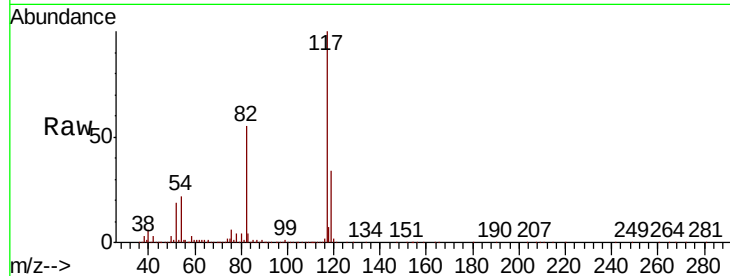




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

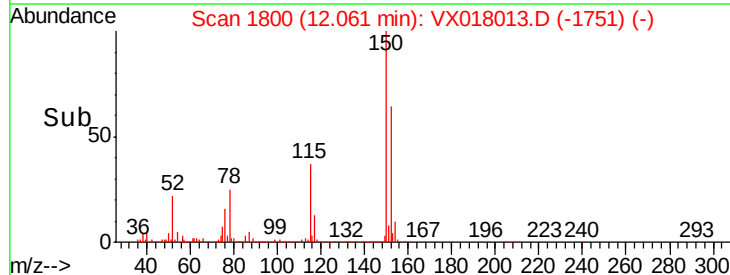
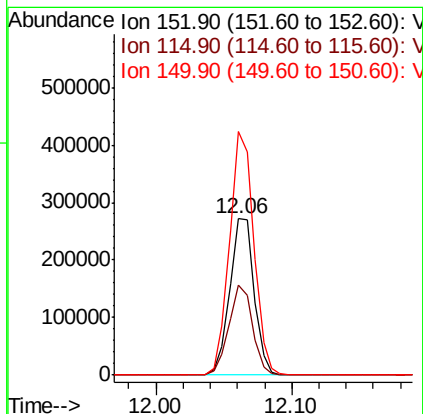
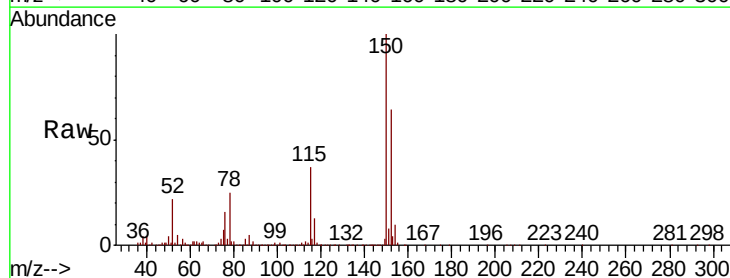
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB181-GW-418-420

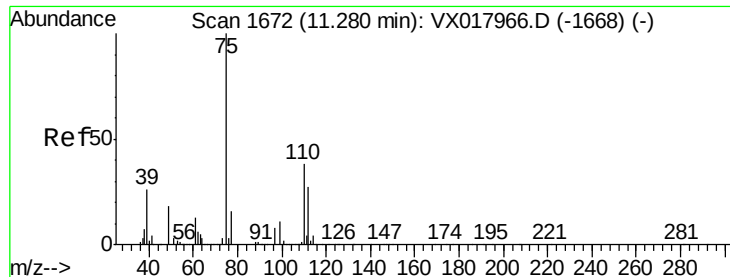
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.4  | 44.6  | 66.8  |
| 119     | 33.7  | 26.2  | 39.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. 0.00 min  
Lab File: VX018013.D  
Acq: 20 Aug 2020 03:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.7  | 40.6  | 121.7 |
| 150     | 153.8 | 0.0   | 346.4 |





#76

1,2,3-Trichloropropane

Concen: 22.576 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018013.D

Acq: 20 Aug 2020 03:29

Instrument :

MSVOA\_X

ClientSampleId :

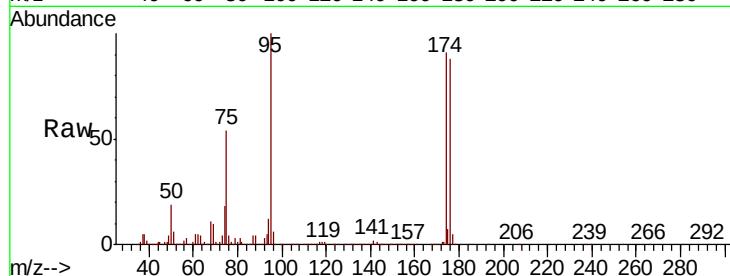
BP-VPB181-GW-418-420

Tot Ion: 75 Resp: 163747

Ion Ratio Lower Upper

75 100

77 1.5 21.1 63.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

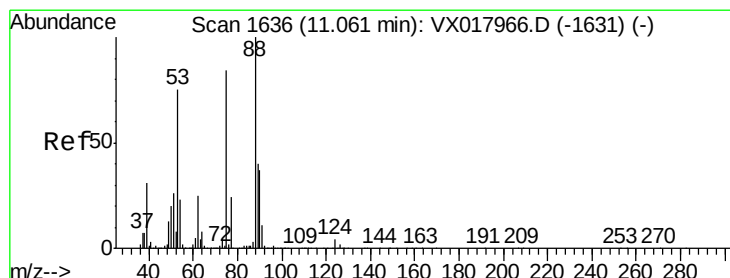
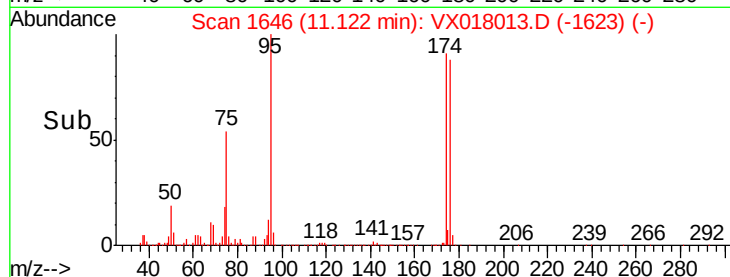
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.310 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018013.D

Acq: 20 Aug 2020 03:29

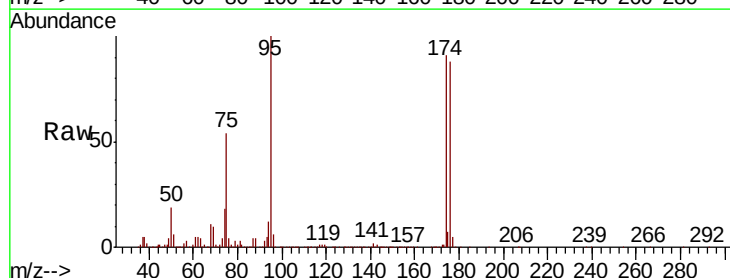
Tgt Ion: 75 Resp: 163747

Ion Ratio Lower Upper

75 100

53 0.7 75.2 112.8#

89 0.1 38.4 57.6#



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

11.12

150000

100000

50000

0

Time--> 11.00 11.10 11.20

