

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060419\  
 Data File : VF062847.D  
 Acq On : 4 Jun 2019 19:05  
 Operator : FY/SY  
 Sample : K3175-02  
 Misc : 5.61g/5mL/MSVOA F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jun 05 05:23:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 04:18:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 680338   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 1248592  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 948090   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 408930   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 213261   | 45.33 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 90.66% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 412060   | 43.67 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 87.34% |          |
| 50) Toluene-d8              | 7.71  | 98   | 876667   | 36.74 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 73.48% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 313580   | 36.54 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 73.08% |          |

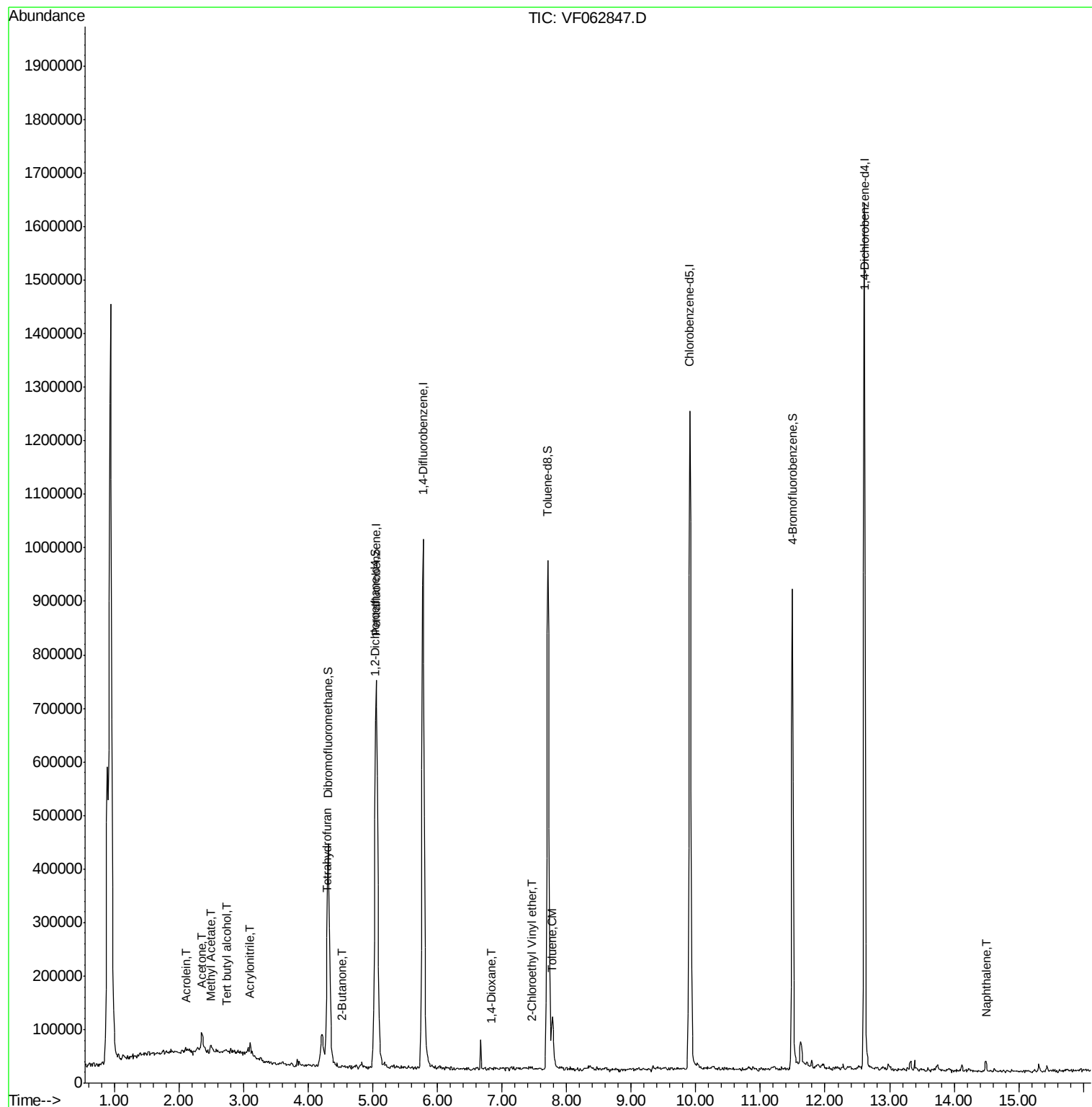
| Target Compounds              | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.98  | 85   | 834      | Below Cal |        | 98     |
| 11) Tert butyl alcohol        | 2.72  | 59   | 4056     | 14.232    | ug/l # | 66     |
| 13) Acrolein                  | 2.09  | 56   | 1056     | 1.130     | ug/l # | 27     |
| 15) Acrylonitrile             | 3.11  | 53   | 1935     | 1.807     | ug/l # | 28     |
| 16) Acetone                   | 2.35  | 43   | 61307    | 56.936    | ug/l   | 93     |
| 18) Methyl Acetate            | 2.49  | 43   | 8263     | 4.391     | ug/l # | 72     |
| 20) Methylene Chloride        | 2.35  | 84   | 5598     | Below Cal | #      | 83     |
| 25) 2-Butanone                | 4.53  | 43   | 5665     | 2.259     | ug/l # | 64     |
| 29) Tetrahydrofuran           | 4.28  | 42   | 1224     | 1.276     | ug/l # | 49     |
| 49) 1,4-Dioxane               | 6.84  | 88   | 138      | 3.500     | ug/l # | 1      |
| 52) Toluene                   | 7.78  | 92   | 51529    | 2.860     | ug/l   | 86     |
| 58) 2-Chloroethyl Vinyl ether | 7.46  | 63   | 2550     | 1.263     | ug/l # | 81     |
| 95) Naphthalene               | 14.49 | 128  | 14453    | 1.156     | ug/l # | 93     |

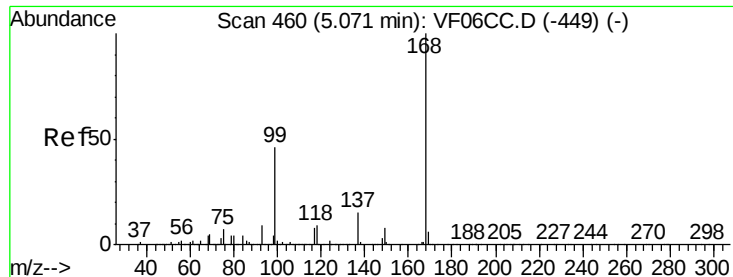
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF060419\  
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Sample : K3175-02  
Misc : 5.61a/5mL/MSVOA F/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Jun 05 05:23:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 31 04:18:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062847.D

Acq: 4 Jun 2019 19:05

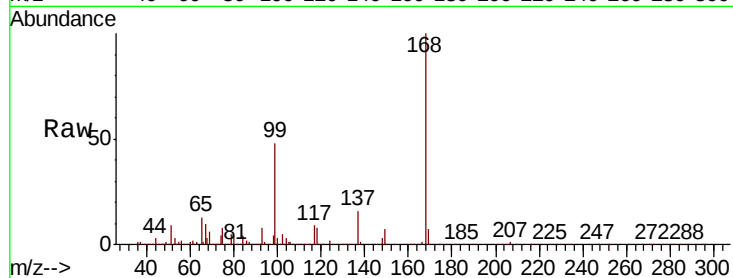
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:168 Resp: 680338

Ion Ratio Lower Upper

168 100

99 48.2 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

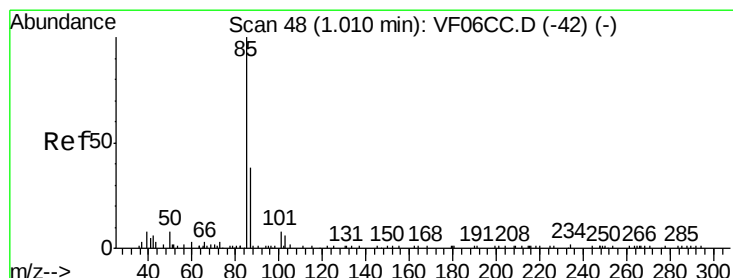
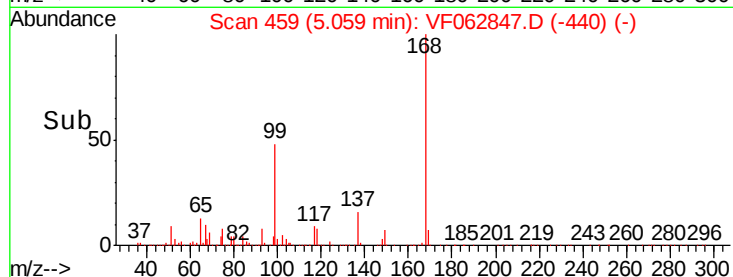
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 45

Delta R.T. -0.03 min

Lab File: VF062847.D

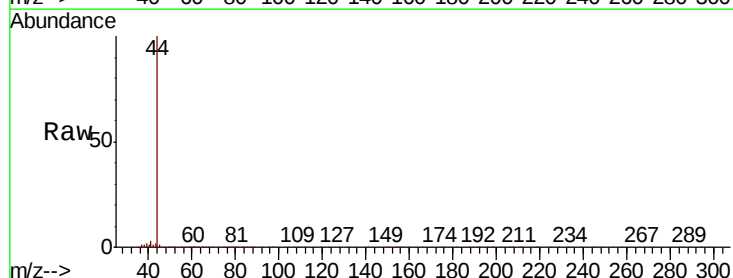
Acq: 4 Jun 2019 19:05

Tgt Ion: 85 Resp: 834

Ion Ratio Lower Upper

85 100

87 36.7 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

400

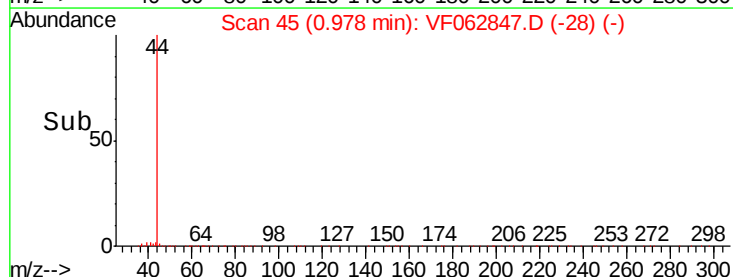
300

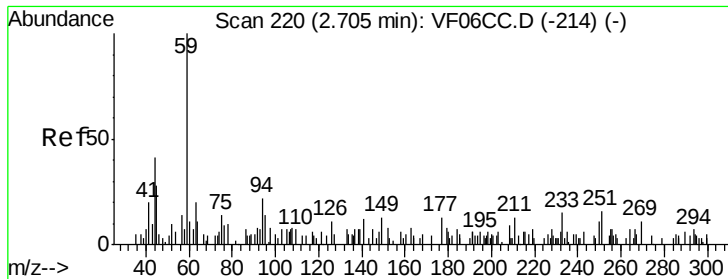
200

100

0

Time-->

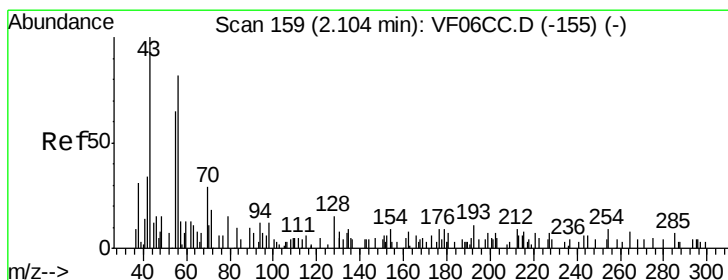
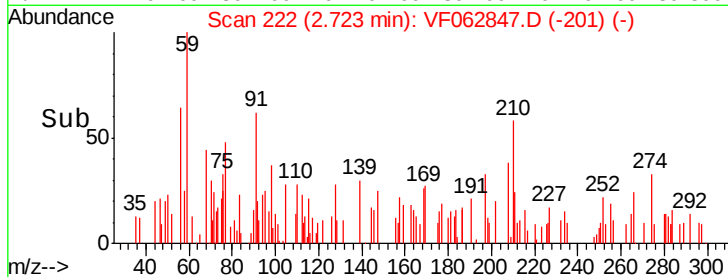
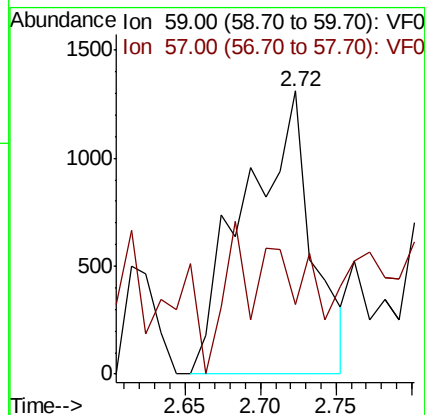
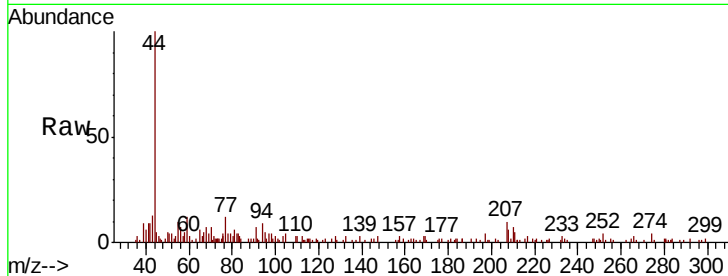




#11  
Tert butyl alcohol  
Concen: 14.232 ug/l  
RT: 2.72 min Scan# 222  
Delta R.T. 0.01 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

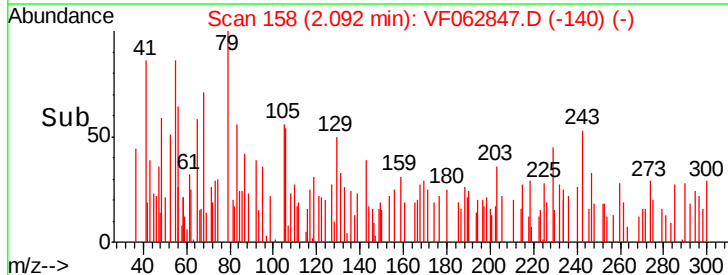
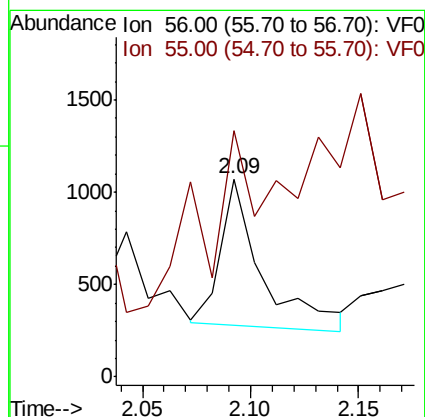
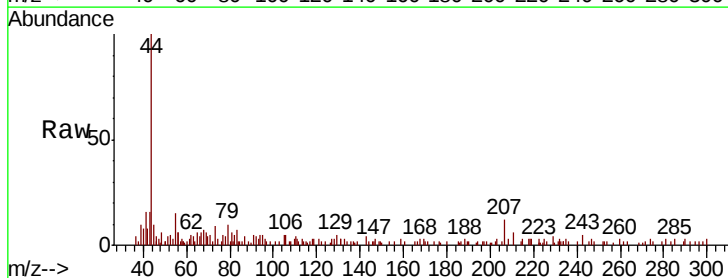
Instrument :  
MSVOA\_F  
ClientSampled :

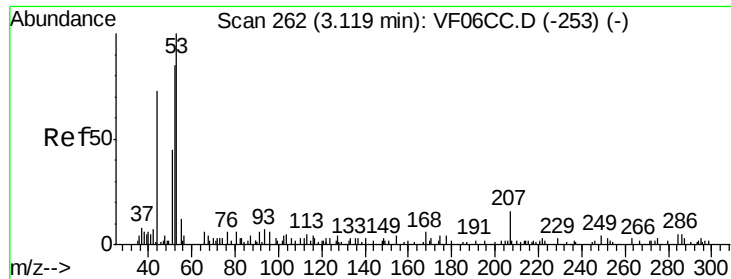
Tot Ion: 59 Resp: 4056  
Ion Ratio Lower Upper  
59 100  
57 24.4 9.2 13.8#



#13  
Acrolein  
Concen: 1.130 ug/l  
RT: 2.09 min Scan# 158  
Delta R.T. -0.02 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

Tgt Ion: 56 Resp: 1056  
Ion Ratio Lower Upper  
56 100  
55 124.3 52.9 79.3#





#15

Acrylonitrile

Concen: 1.807 ug/l

RT: 3.11 min Scan# 261

Delta R.T. -0.00 min

Lab File: VF062847.D

Acq: 4 Jun 2019 19:05

Instrument :  
MSVOA\_F  
ClientSampleId :

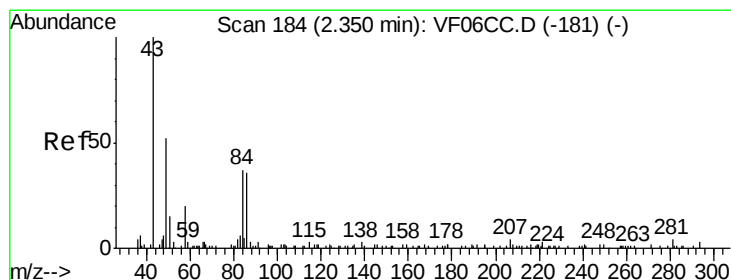
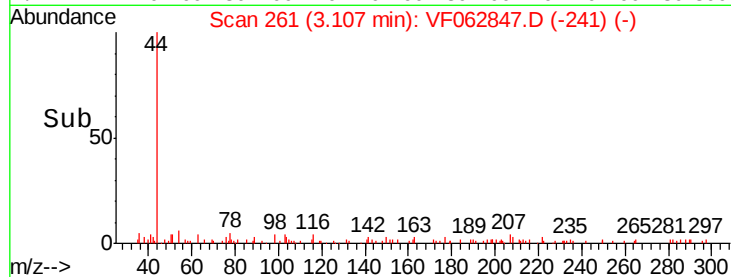
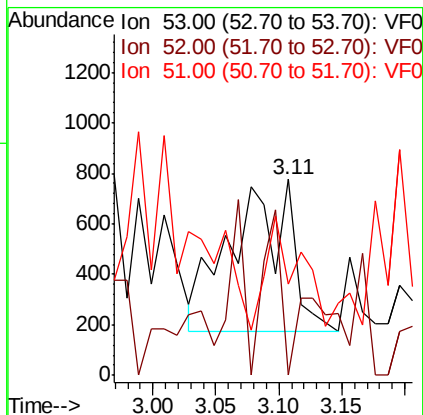
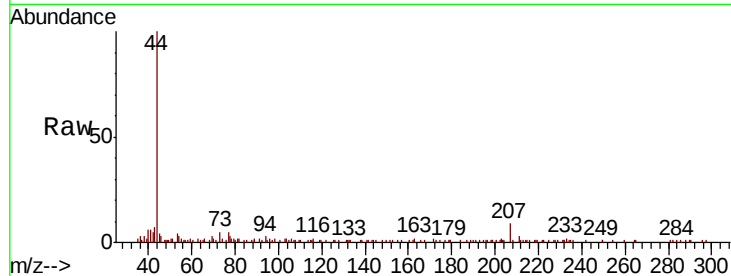
Tot Ion: 53 Resp: 1935

Ion Ratio Lower Upper

53 100

52 0.0 68.1 102.1#

51 46.4 27.7 41.5#



#16

Acetone

Concen: 56.936 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062847.D

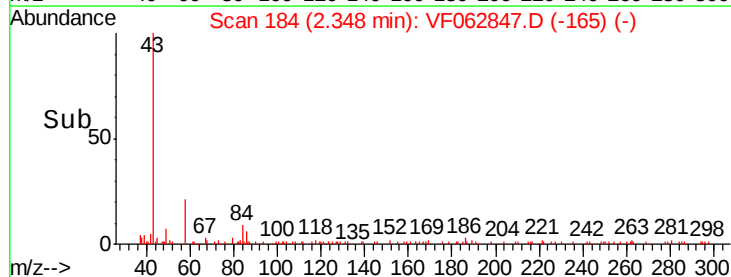
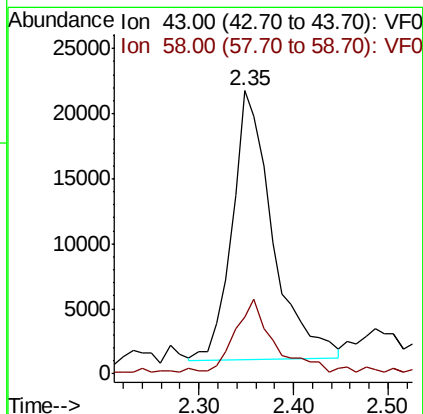
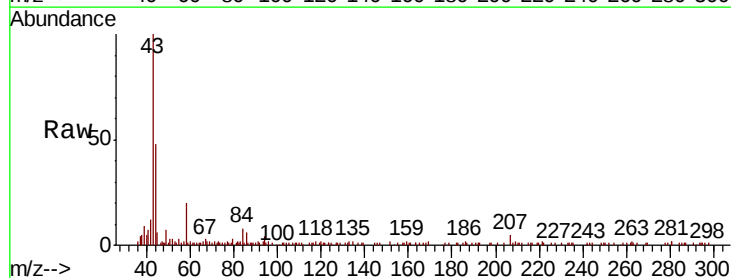
Acq: 4 Jun 2019 19:05

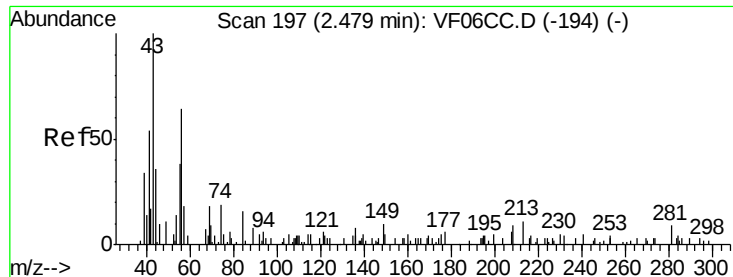
Tgt Ion: 43 Resp: 61307

Ion Ratio Lower Upper

43 100

58 20.1 19.0 28.4

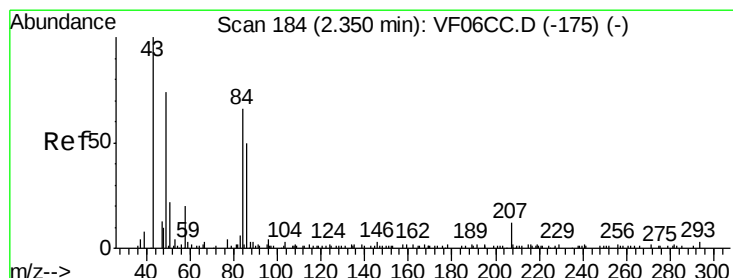
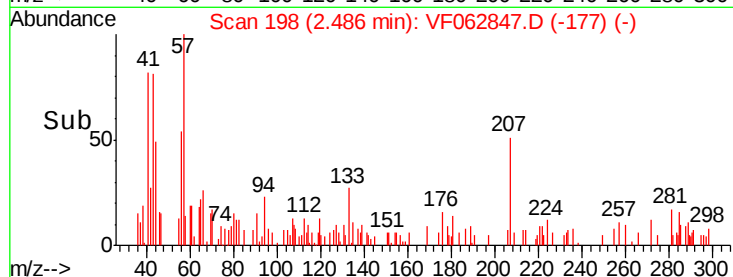
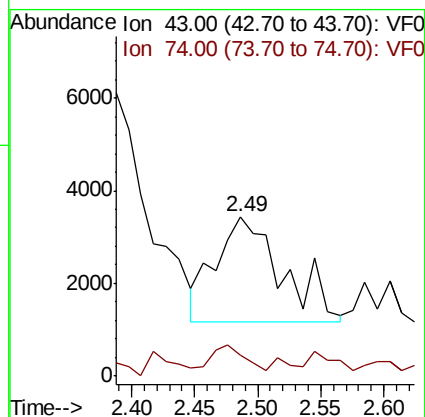
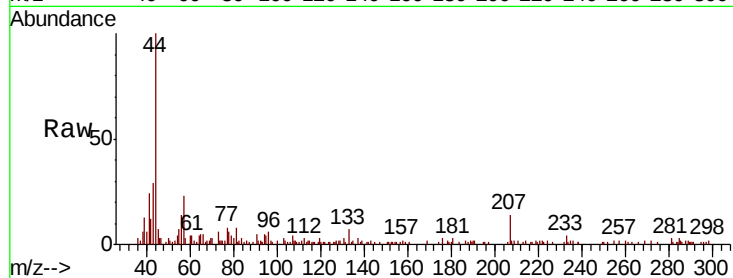




#18  
Methyl Acetate  
Concen: 4.391 ug/l  
RT: 2.49 min Scan# 198  
Delta R.T. 0.01 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

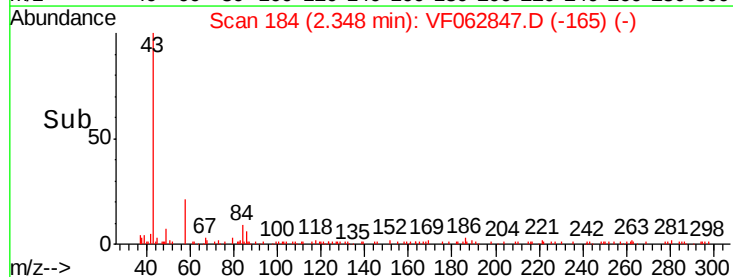
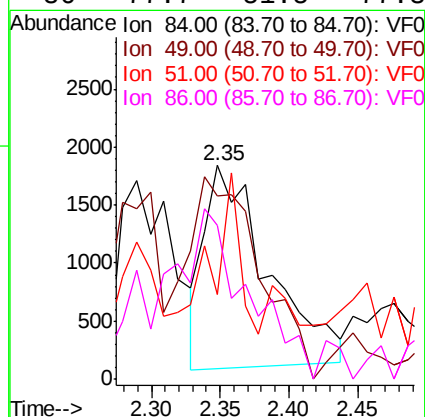
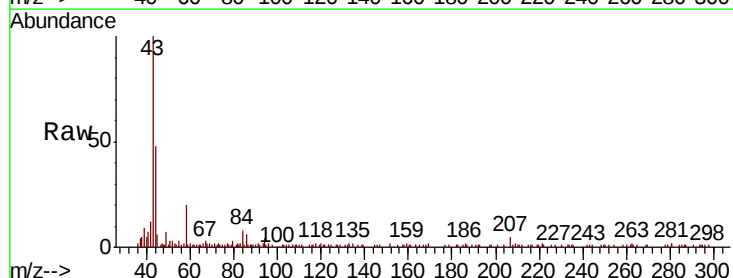
Instrument :  
MSVOA\_F  
ClientSampleId :

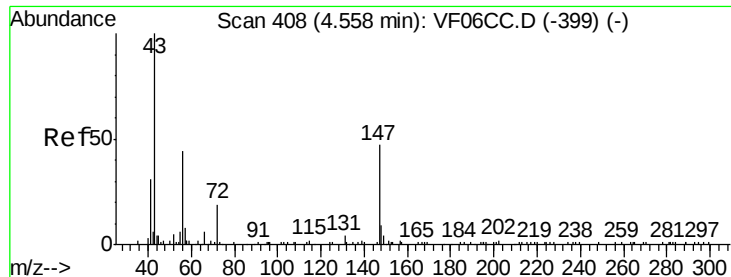
Tot Ion: 43 Resp: 8263  
Ion Ratio Lower Upper  
43 100  
74 13.0 22.1 33.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.35 min Scan# 184  
Delta R.T. -0.01 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

Tgt Ion: 84 Resp: 5598  
Ion Ratio Lower Upper  
84 100  
49 85.5 82.6 123.8  
51 39.4 25.0 37.4#  
86 77.7 51.5 77.3#

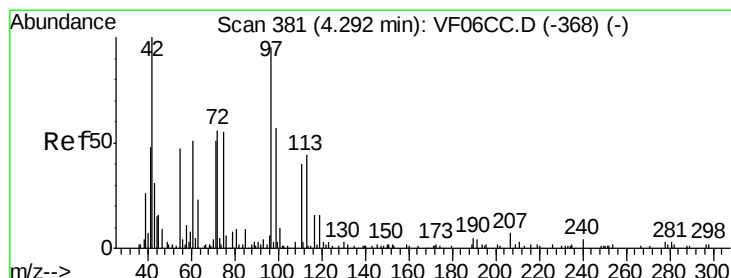
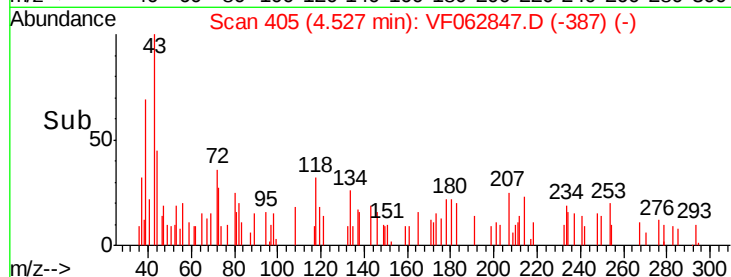
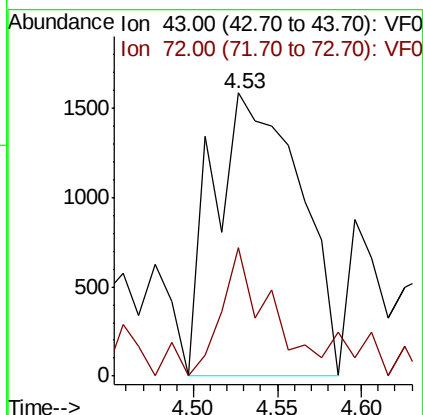
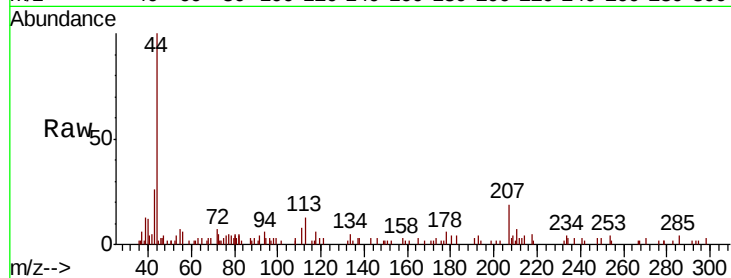




#25  
2-Butanone  
Concen: 2.259 ug/l  
RT: 4.53 min Scan# 405  
Delta R.T. -0.02 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

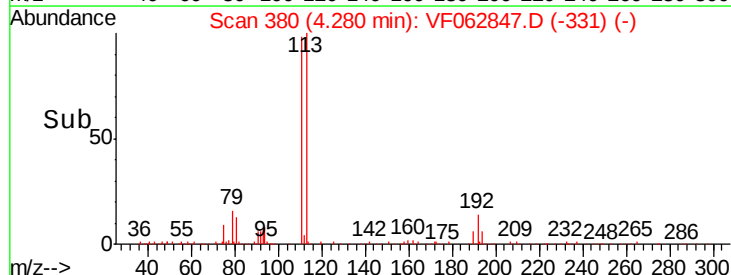
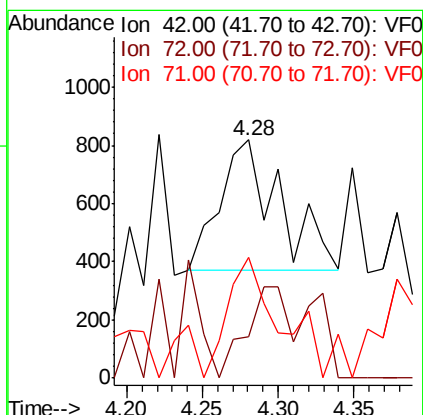
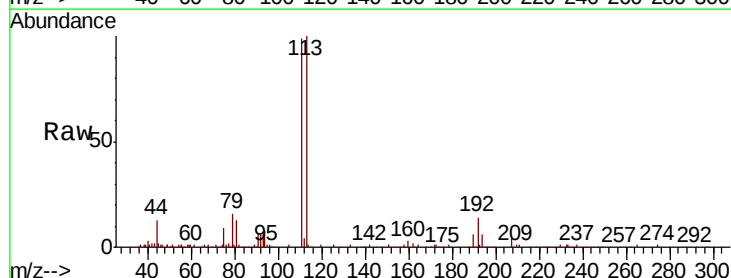
Instrument :  
MSVOA\_F  
ClientSampleId :

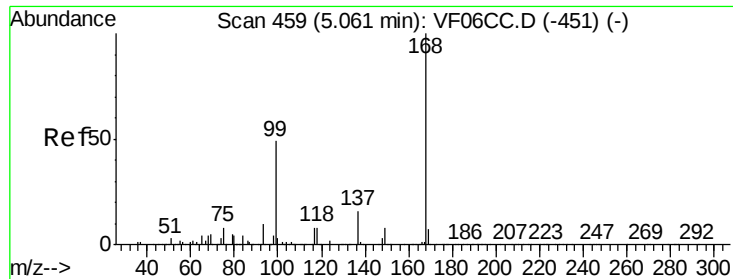
Tot Ion: 43 Resp: 5665  
Ion Ratio Lower Upper  
43 100  
72 45.5 21.4 32.0#



#29  
Tetrahydrofuran  
Concen: 1.276 ug/l  
RT: 4.28 min Scan# 380  
Delta R.T. -0.01 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

Tgt Ion: 42 Resp: 1224  
Ion Ratio Lower Upper  
42 100  
72 75.7 39.0 58.6#  
71 87.7 36.9 55.3#

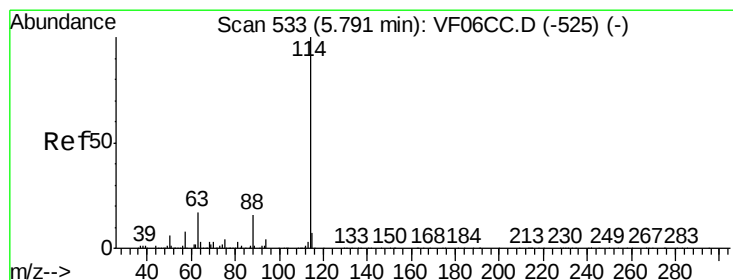
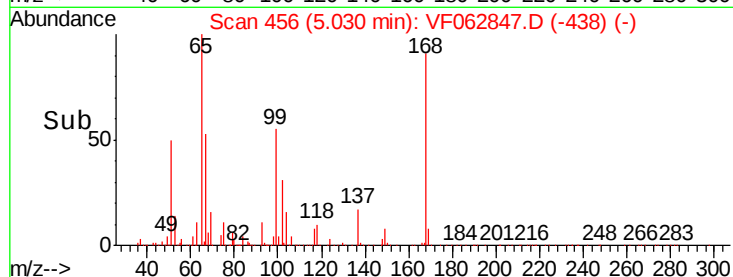
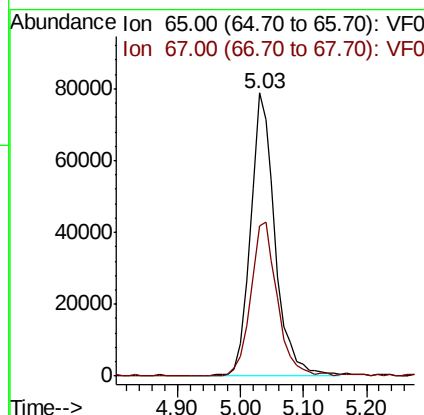
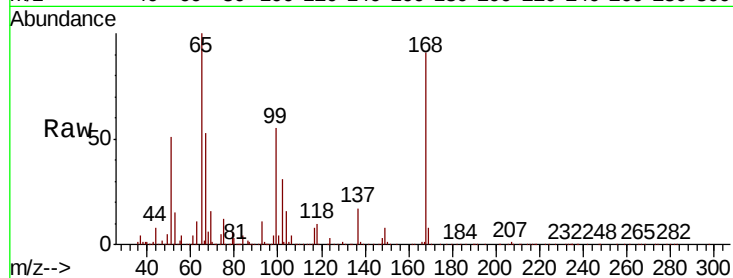




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.330 ug/l  
 RT: 5.03 min Scan# 456  
 Delta R.T. -0.02 min  
 Lab File: VF062847.D  
 Acq: 4 Jun 2019 19:05

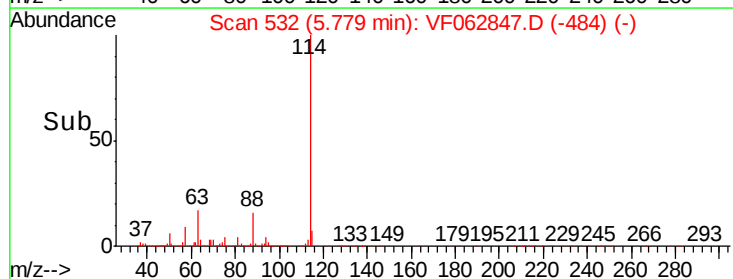
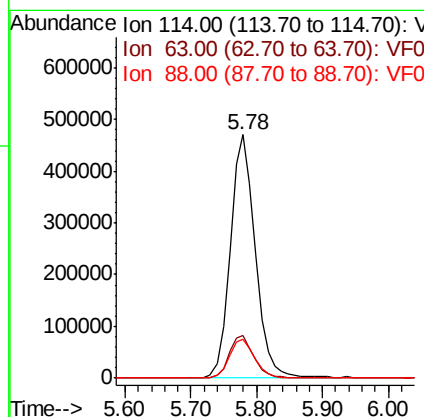
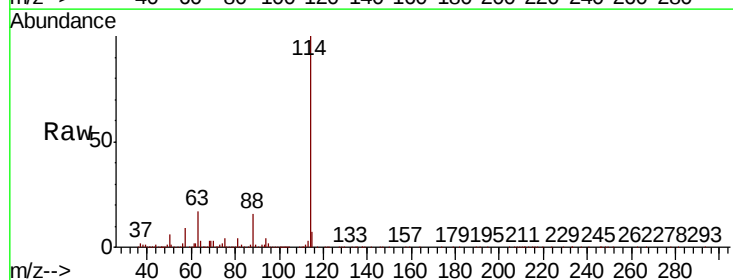
Instrument :  
 MSVOA\_F  
 ClientSampled :

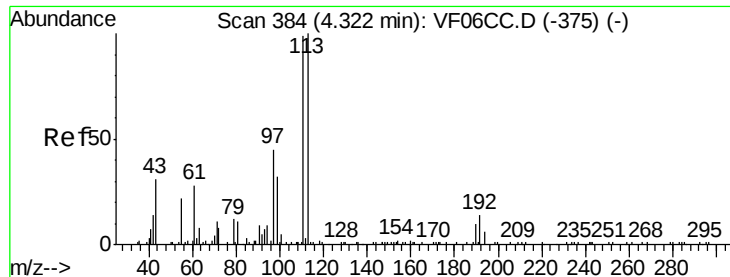
Tot Ion: 65 Resp: 213261  
 Ion Ratio Lower Upper  
 65 100  
 67 52.9 0.0 121.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.78 min Scan# 532  
 Delta R.T. -0.02 min  
 Lab File: VF062847.D  
 Acq: 4 Jun 2019 19:05

Tgt Ion: 114 Resp: 1248592  
 Ion Ratio Lower Upper  
 114 100  
 63 17.3 0.0 34.2  
 88 15.9 0.0 31.2





#35

Dibromofluoromethane

Concen: 43.673 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.02 min

Lab File: VF062847.D

Acq: 4 Jun 2019 19:05

Instrument :  
MSVOA\_F  
ClientSampleId :

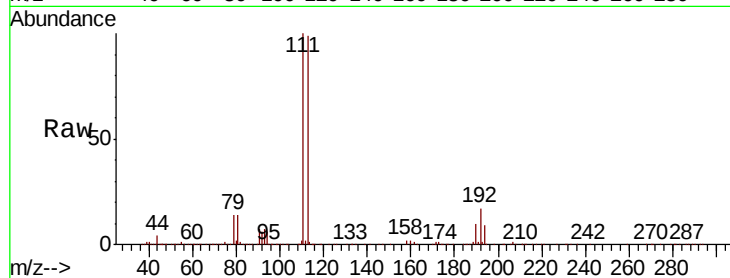
Tot Ion:113 Resp: 412060

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 100.5 | 81.9  | 122.9 |
| 192 | 16.7  | 15.1  | 22.7  |

113 100

111 100.5 81.9 122.9

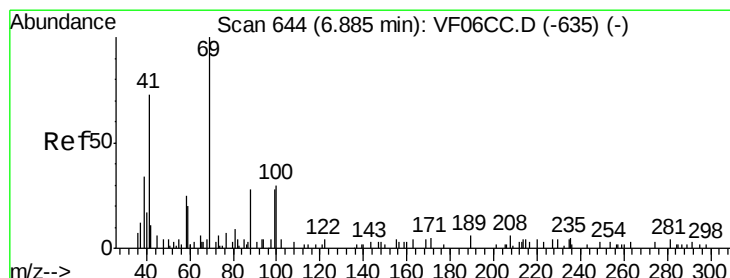
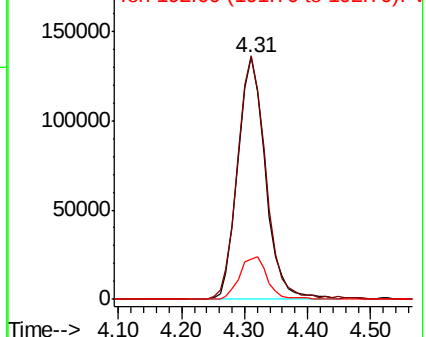
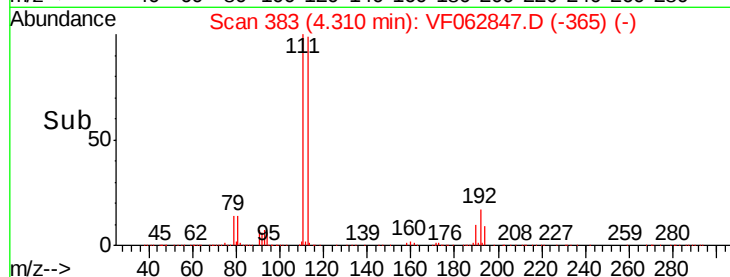
192 16.7 15.1 22.7



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 3.500 ug/l

RT: 6.84 min Scan# 640

Delta R.T. -0.04 min

Lab File: VF062847.D

Acq: 4 Jun 2019 19:05

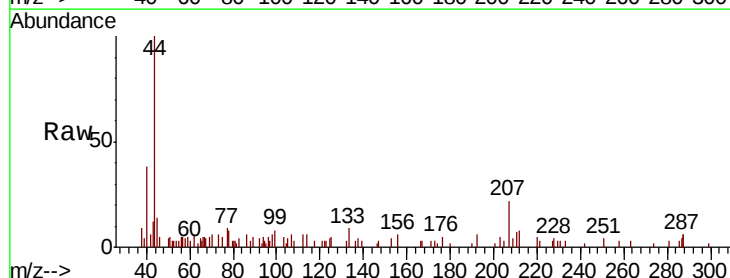
Tgt Ion: 88 Resp: 138

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 454.2 | 34.8  | 52.2# |
| 58  | 162.7 | 59.9  | 89.9# |

88 100

43 454.2 34.8 52.2#

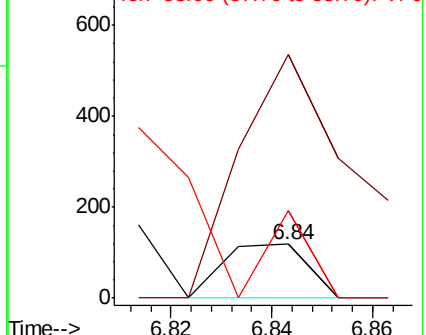
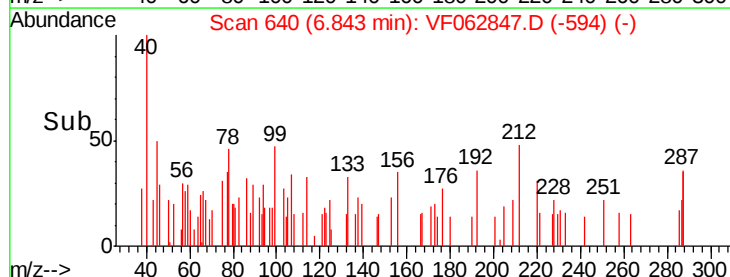
58 162.7 59.9 89.9#

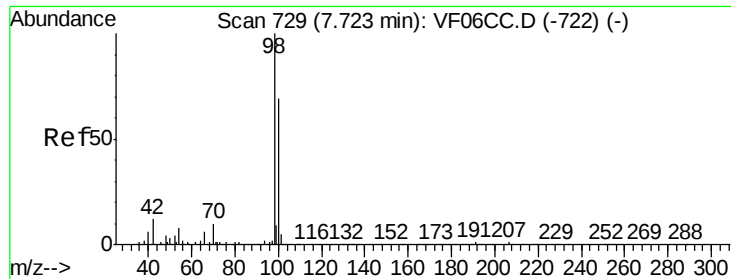


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

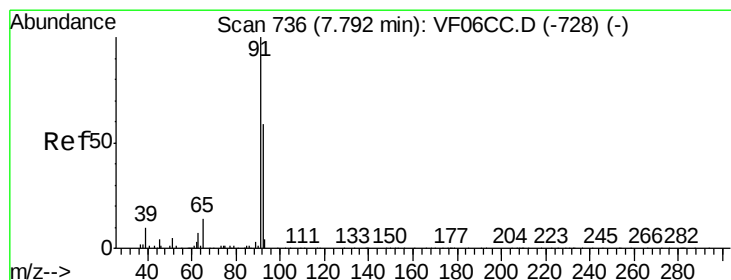
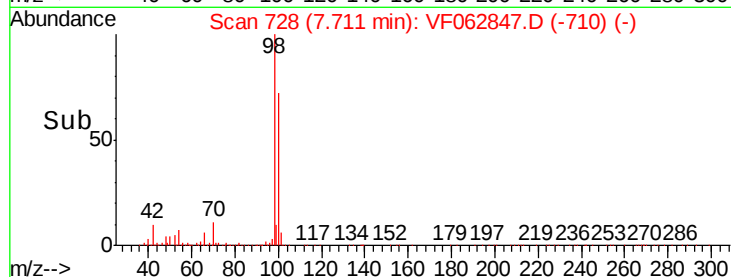
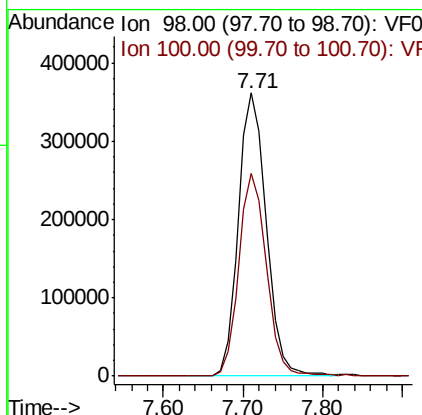
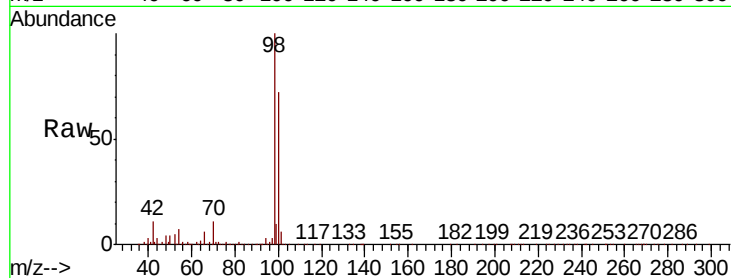




#50  
Toluene-d8  
Concen: 36.744 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. -0.02 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

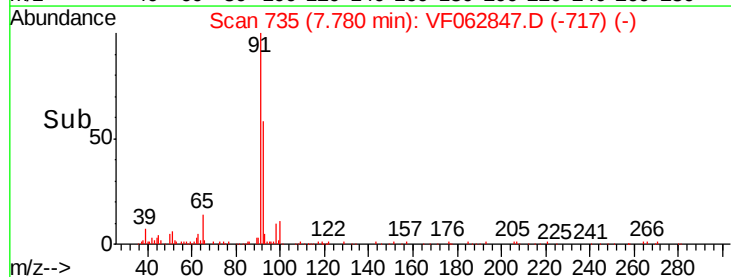
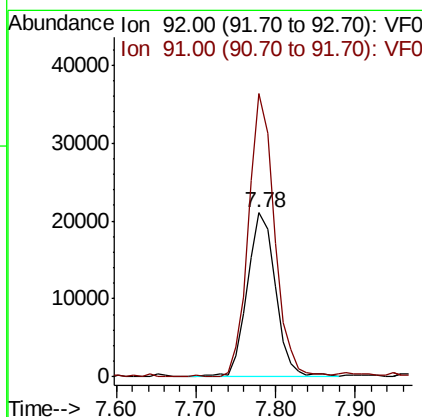
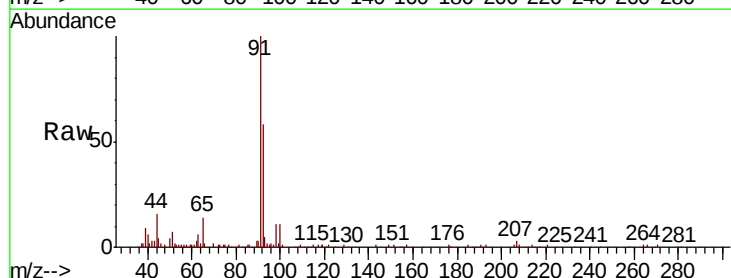
Instrument :  
MSVOA\_F  
ClientSampleId :

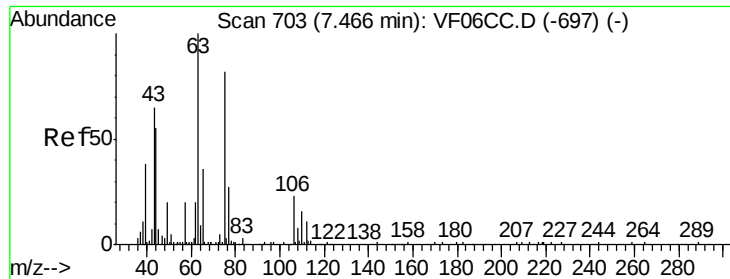
Tot Ion: 98 Resp: 876667  
Ion Ratio Lower Upper  
98 100  
100 71.8 59.8 89.8



#52  
Toluene  
Concen: 2.860 ug/l  
RT: 7.78 min Scan# 735  
Delta R.T. -0.02 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

Tgt Ion: 92 Resp: 51529  
Ion Ratio Lower Upper  
92 100  
91 172.5 123.2 184.8

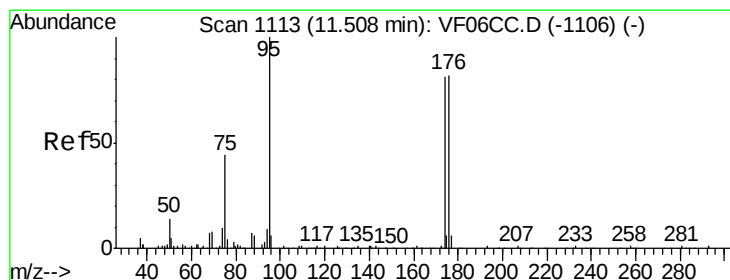
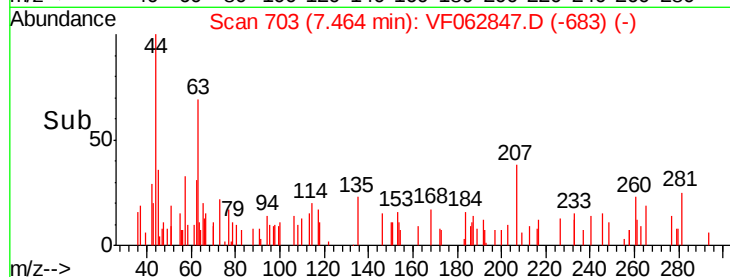
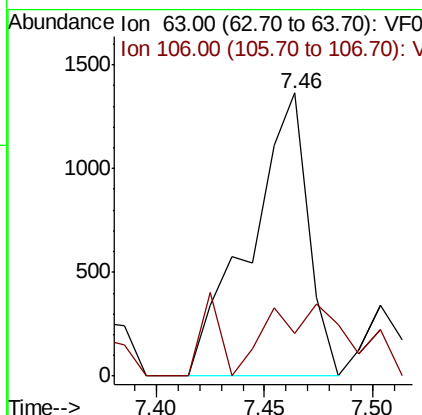
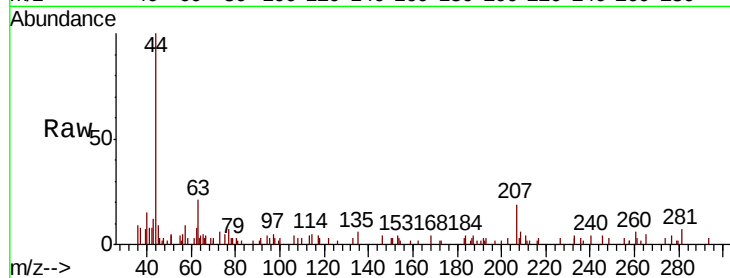




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 1.263 ug/l  
 RT: 7.46 min Scan# 703  
 Delta R.T. -0.00 min  
 Lab File: VF062847.D  
 Acq: 4 Jun 2019 19:05

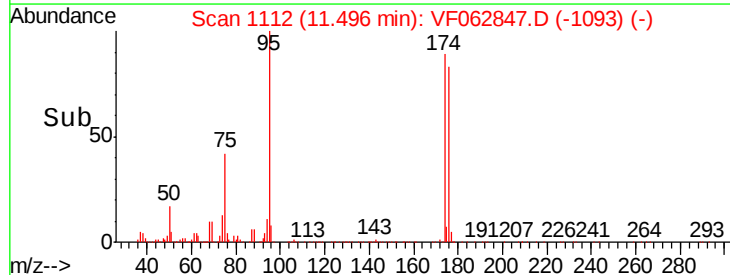
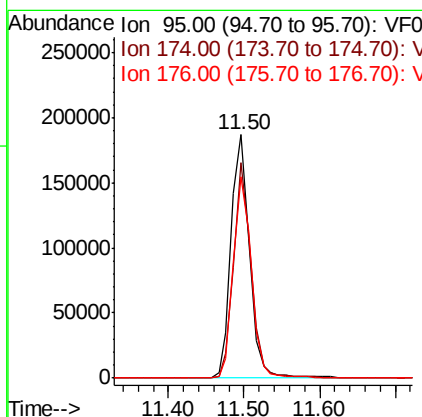
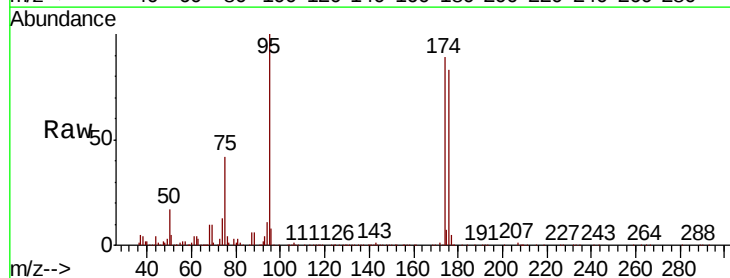
Instrument :  
 MSVOA\_F  
 ClientSampled :

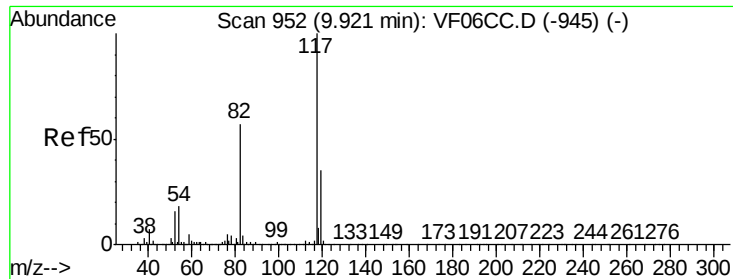
Tot Ion: 63 Resp: 2550  
 Ion Ratio Lower Upper  
 63 100  
 106 15.0 19.5 29.3#



#62  
 4-Bromofluorobenzene  
 Concen: 36.538 ug/l  
 RT: 11.50 min Scan# 1112  
 Delta R.T. -0.01 min  
 Lab File: VF062847.D  
 Acq: 4 Jun 2019 19:05

Tgt Ion: 95 Resp: 313580  
 Ion Ratio Lower Upper  
 95 100  
 174 88.6 0.0 170.6  
 176 82.9 0.0 170.6

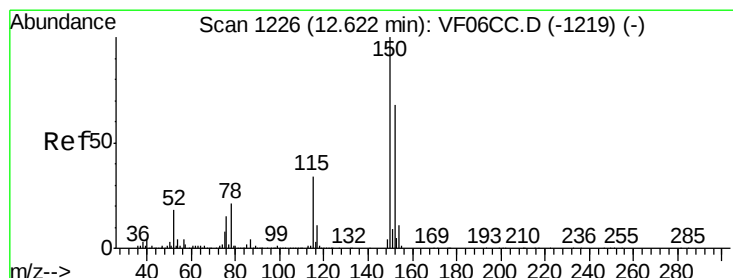
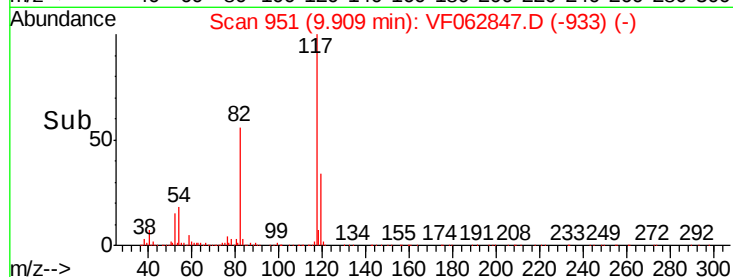
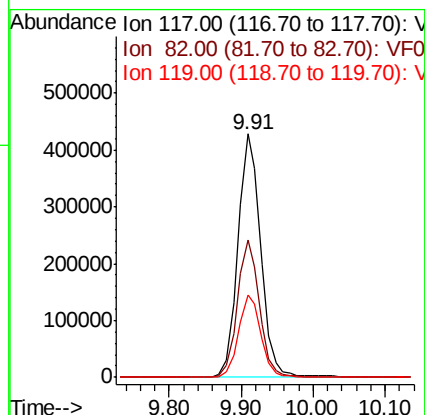
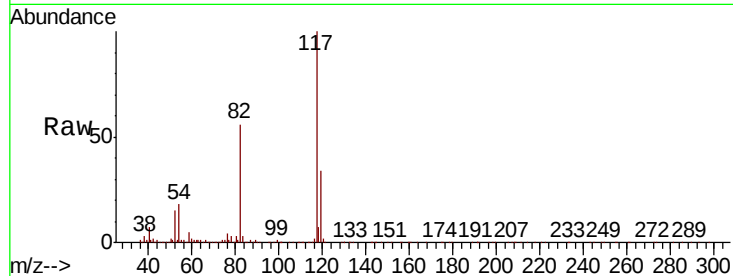




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 951  
Delta R.T. -0.02 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

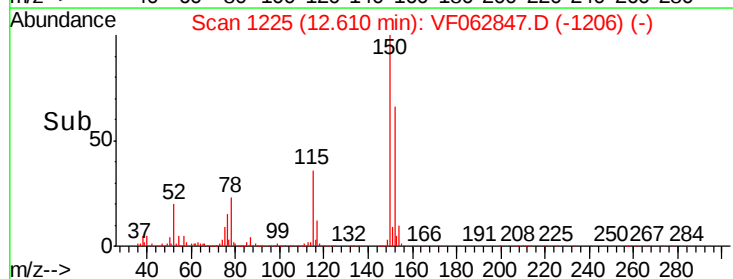
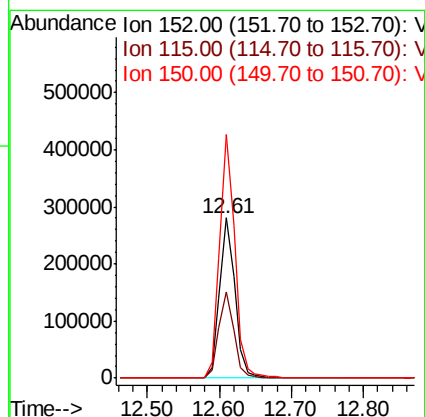
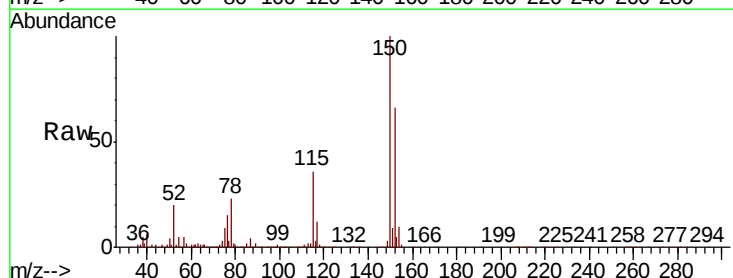
Instrument :  
MSVOA\_F  
ClientSampled :

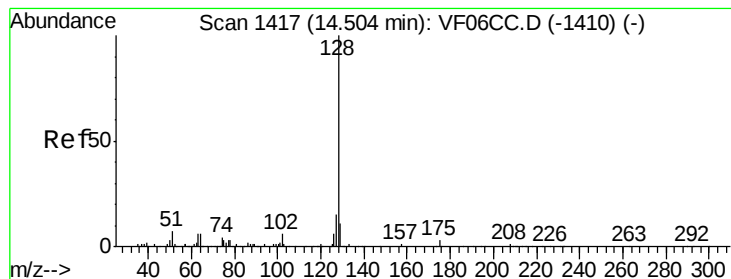
Tot Ion:117 Resp: 948090  
Ion Ratio Lower Upper  
117 100  
82 56.3 42.4 63.6  
119 34.0 27.1 40.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1225  
Delta R.T. -0.01 min  
Lab File: VF062847.D  
Acq: 4 Jun 2019 19:05

Tgt Ion:152 Resp: 408930  
Ion Ratio Lower Upper  
152 100  
115 54.3 24.6 74.0  
150 152.3 0.0 290.6

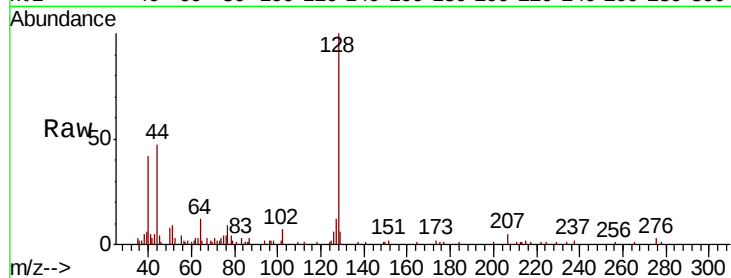




#95  
 Naphthalene  
 Concen: 1.156 ug/l  
 RT: 14.49 min Scan# 1416  
 Delta R.T. -0.01 min  
 Lab File: VF062847.D  
 Acq: 4 Jun 2019 19:05

Instrument :  
 MSVOA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.1  | 9.7   | 14.5  |
| 129     | 6.4   | 9.4   | 14.2# |



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 127.00 (126.70 to 127.70): V  
 Ion 129.00 (128.70 to 129.70): V

