

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052119\  
 Data File : VF062689.D  
 Acq On : 21 May 2019 18:07  
 Operator : FY/SY  
 Sample : K2971-04  
 Misc : 5.70g/5mL/MSVOA F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: May 22 03:57:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 2019  
 Response via : Initial Calibration

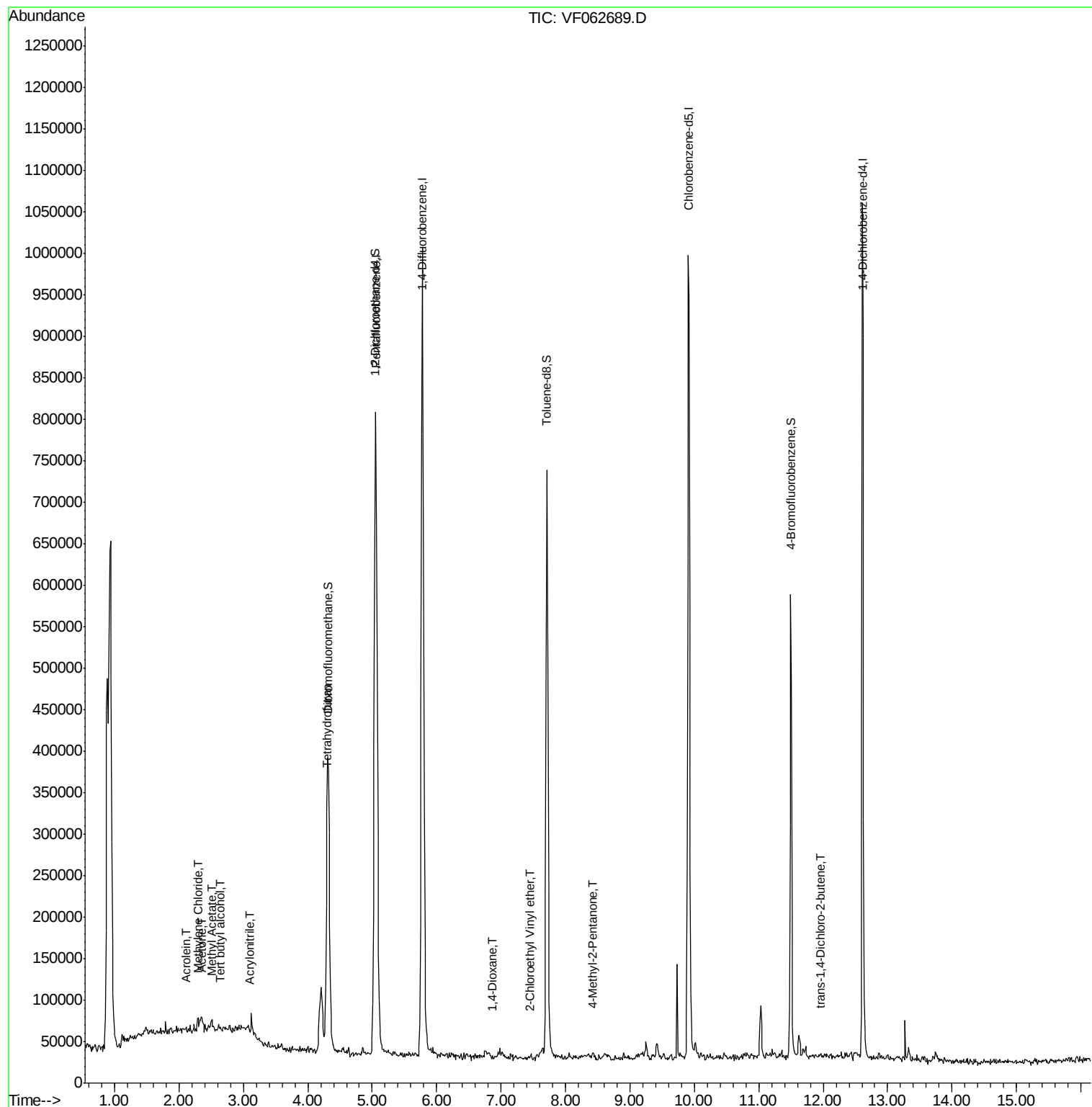
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 5.06  | 168  | 761782   | 50.00     | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene        | 5.78  | 114  | 1236961  | 50.00     | ug/l   | -0.01    |
| 63) Chlorobenzene-d5           | 9.91  | 117  | 778097   | 50.00     | ug/l   | -0.01    |
| 72) 1,4-Dichlorobenzene-d4     | 12.61 | 152  | 285628   | 50.00     | ug/l   | -0.01    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 5.04  | 65   | 183312   | 34.05     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 68.10% |          |
| 35) Dibromofluoromethane       | 4.31  | 113  | 354676   | 37.47     | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 74.94% |          |
| 50) Toluene-d8                 | 7.71  | 98   | 667205   | 29.52     | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 59.04% |          |
| 62) 4-Bromofluorobenzene       | 11.49 | 95   | 208242   | 24.30     | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 48.60% |          |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 11) Tert butyl alcohol         | 2.64  | 59   | 862      | 2.425     | ug/l # | 14       |
| 13) Acrolein                   | 2.12  | 56   | 865      | 2.332     | ug/l # | 62       |
| 15) Acrylonitrile              | 3.10  | 53   | 1106     | 1.103     | ug/l # | 64       |
| 16) Acetone                    | 2.36  | 43   | 17197    | 12.314    | ug/l   | 98       |
| 18) Methyl Acetate             | 2.49  | 43   | 5666     | 2.582     | ug/l   | 94       |
| 20) Methylene Chloride         | 2.30  | 84   | 12409    | 1.773     | ug/l   | 89       |
| 29) Tetrahydrofuran            | 4.29  | 42   | 2276     | 1.885     | ug/l # | 66       |
| 49) 1,4-Dioxane                | 6.87  | 88   | 245      | 5.458     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.43  | 43   | 6210     | 1.355     | ug/l # | 32       |
| 58) 2-Chloroethyl Vinyl ether  | 7.44  | 63   | 3067     | 1.475     | ug/l # | 51       |
| 59) 2-Hexanone                 | 9.62  | 43   | 3325     | Below Cal |        | 67       |
| 74) N-amyl acetate             | 11.44 | 43   | 2652     | Below Cal | #      | 64       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 1236     | 1.012     | ug/l # | 44       |

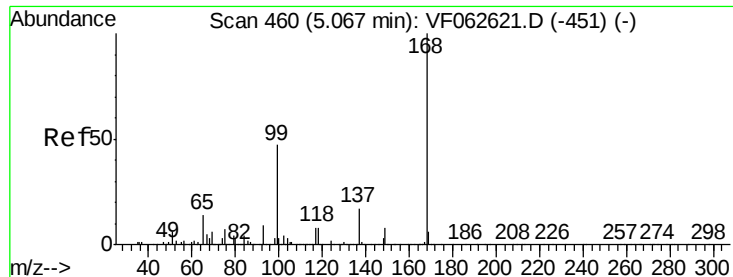
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052119\  
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Quant Time: May 22 03:57:34 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 17 05:49:09 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: VF062689.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA\_F

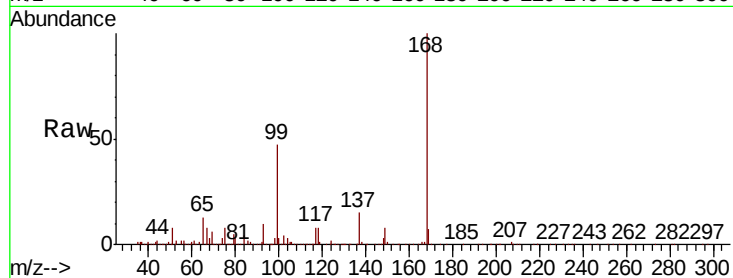
ClientSampleId :

Tot Ion:168 Resp: 761782

Ion Ratio Lower Upper

168 100

99 46.7 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

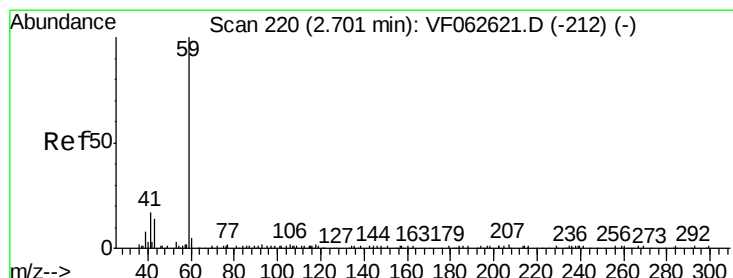
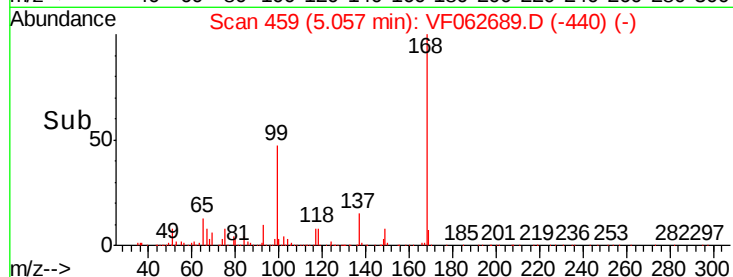
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.425 ug/l

RT: 2.64 min Scan# 214

Delta R.T. -0.06 min

Lab File: VF062689.D

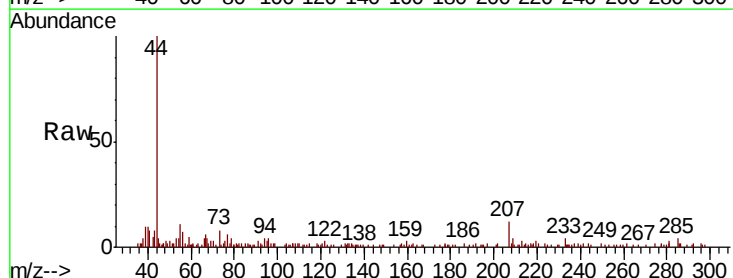
Acq: 21 May 2019 18:07

Tgt Ion: 59 Resp: 862

Ion Ratio Lower Upper

59 100

57 44.9 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.64

1000

800

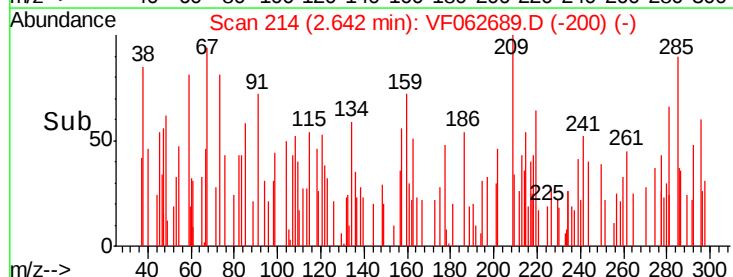
600

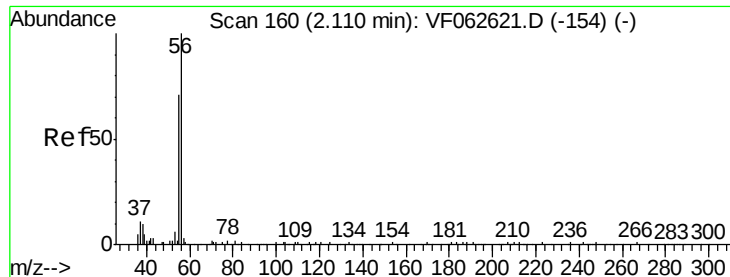
400

200

0

Time-->

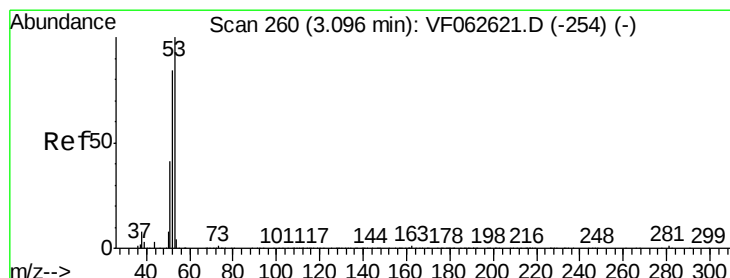
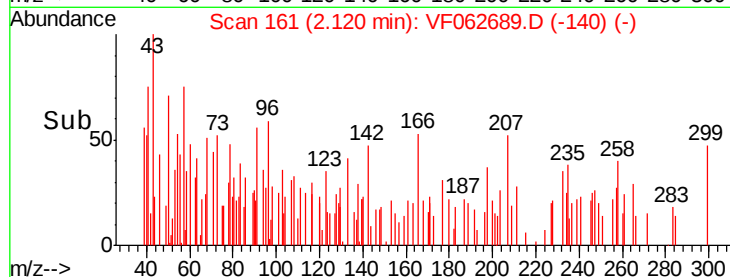
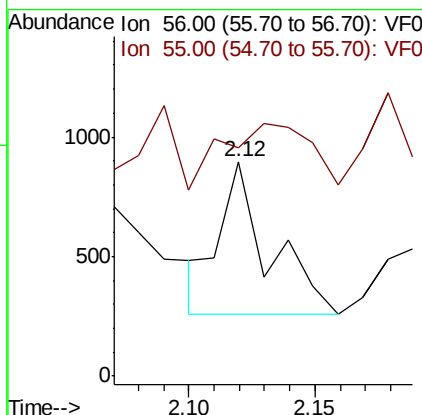
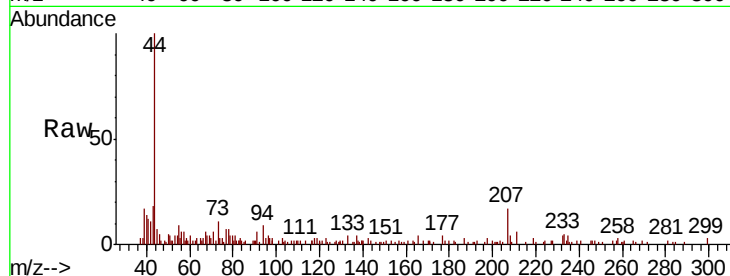




#13  
Acrolein  
Concen: 2.332 ug/l  
RT: 2.12 min Scan# 161  
Delta R.T. 0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

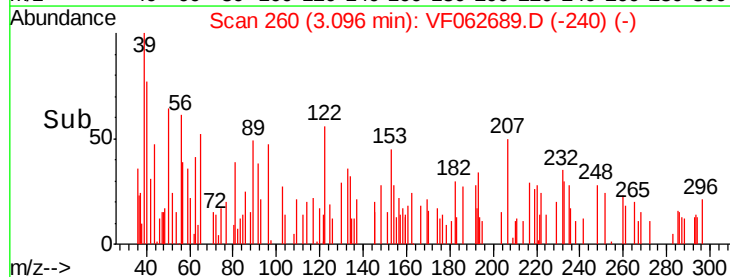
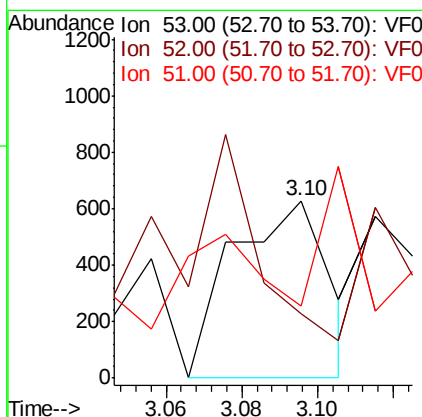
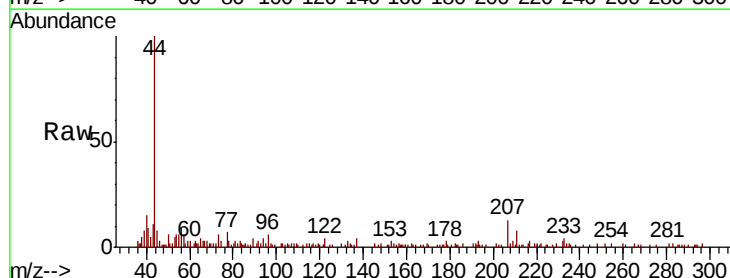
Instrument :  
MSVOA\_F  
ClientSampled :

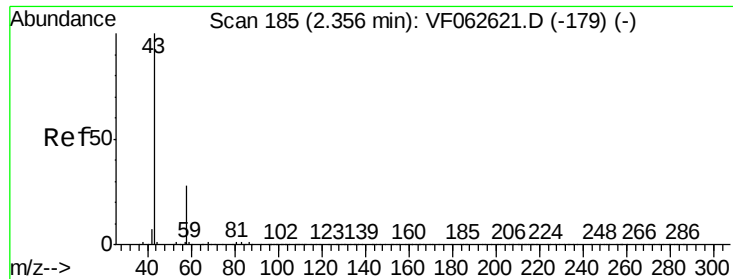
Tot Ion: 56 Resp: 865  
Ion Ratio Lower Upper  
56 100  
55 106.2 59.4 89.0#



#15  
Acrylonitrile  
Concen: 1.103 ug/l  
RT: 3.10 min Scan# 260  
Delta R.T. -0.00 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

Tgt Ion: 53 Resp: 1106  
Ion Ratio Lower Upper  
53 100  
52 36.0 67.3 100.9#  
51 40.5 33.0 49.6

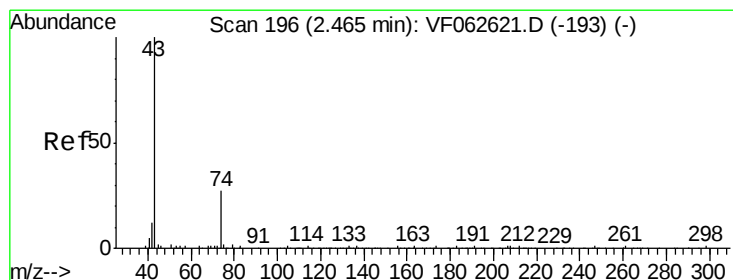
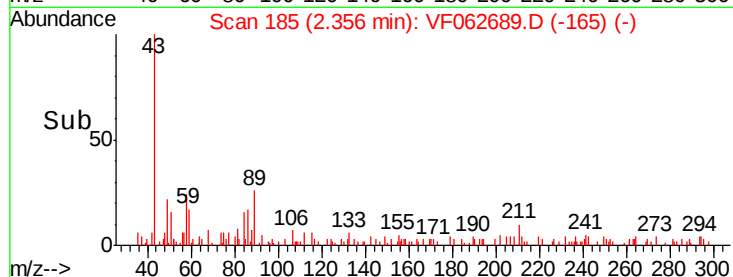
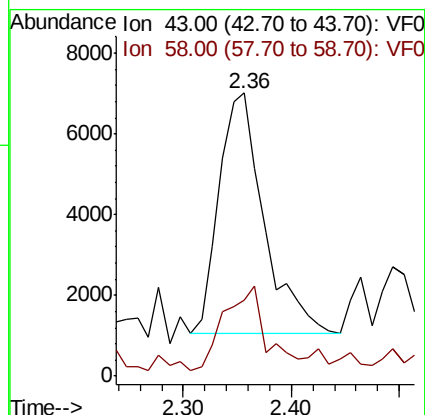
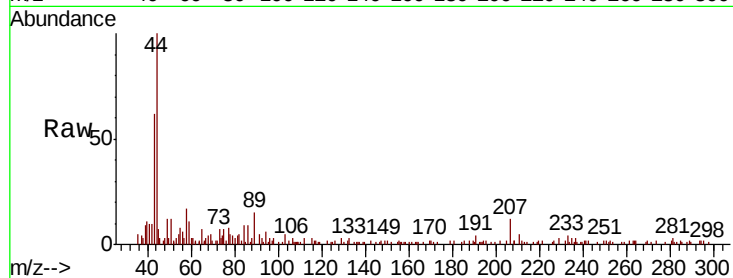




#16  
Acetone  
Concen: 12.314 ug/l  
RT: 2.36 min Scan# 185  
Delta R.T. -0.00 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

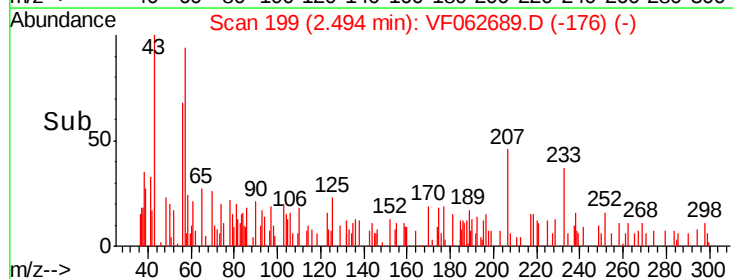
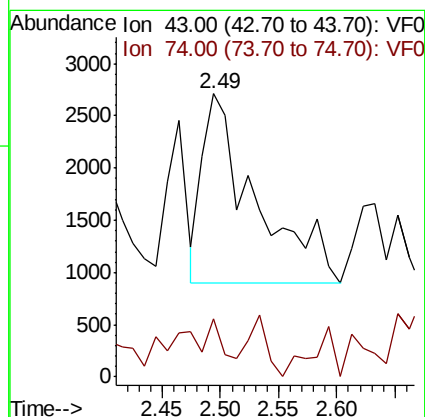
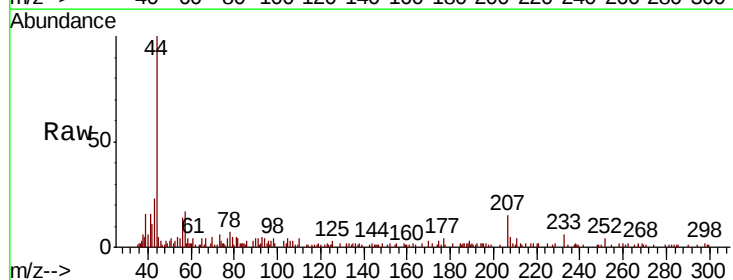
Instrument :  
MSVOA\_F  
ClientSampleId :

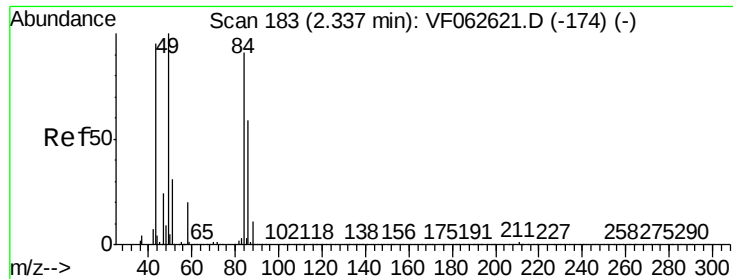
Tot Ion: 43 Resp: 17197  
Ion Ratio Lower Upper  
43 100  
58 27.0 22.6 33.8



#18  
Methyl Acetate  
Concen: 2.582 ug/l  
RT: 2.49 min Scan# 199  
Delta R.T. 0.03 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

Tgt Ion: 43 Resp: 5666  
Ion Ratio Lower Upper  
43 100  
74 20.7 18.9 28.3

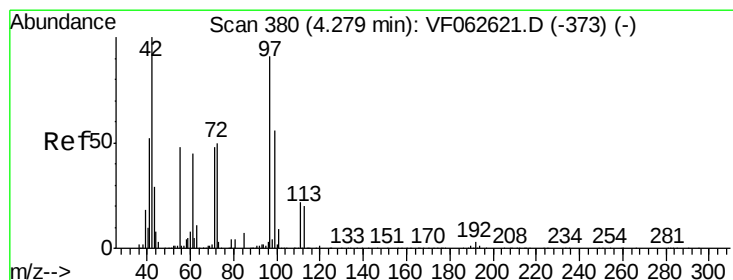
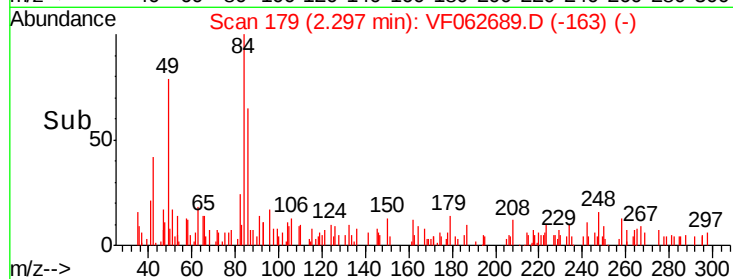
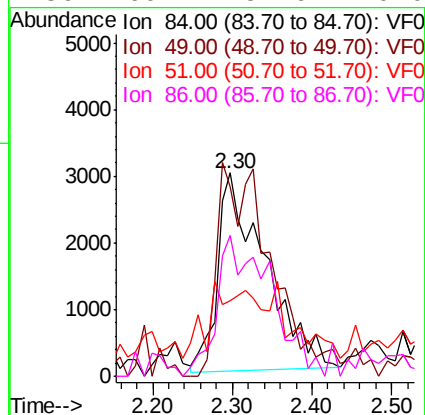
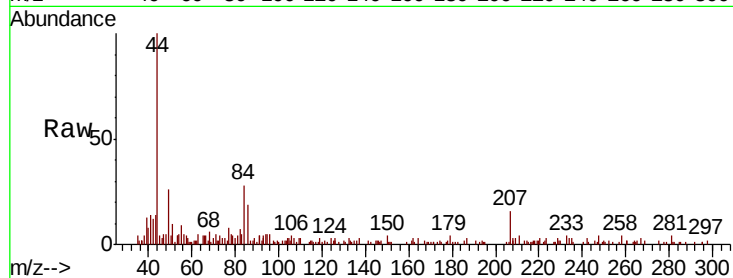




#20  
Methvlene Chloride  
Concen: 1.773 ug/l  
RT: 2.30 min Scan# 179  
Delta R.T. -0.04 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

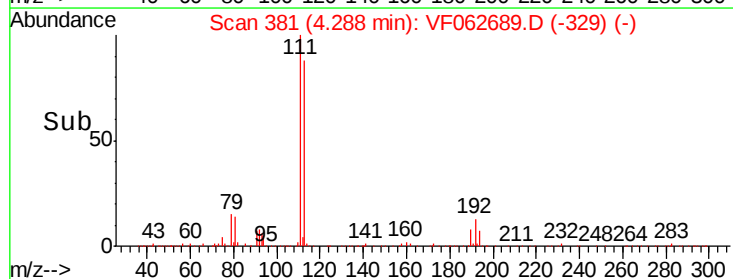
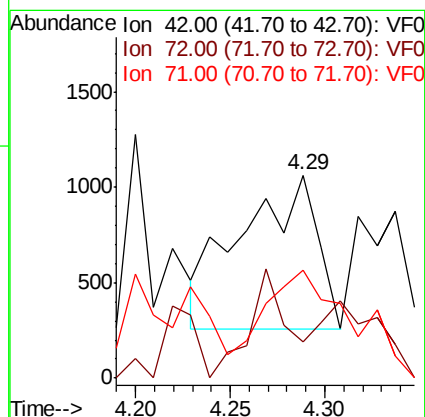
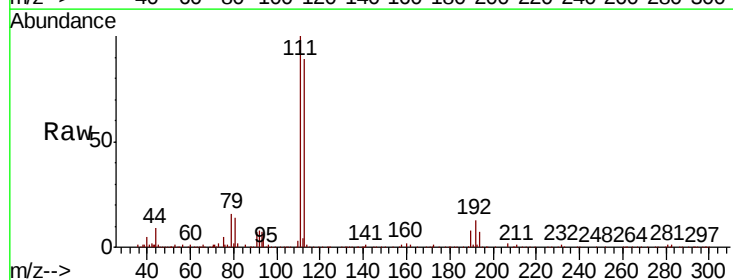
Instrument :  
MSVOA\_F  
ClientSampled :

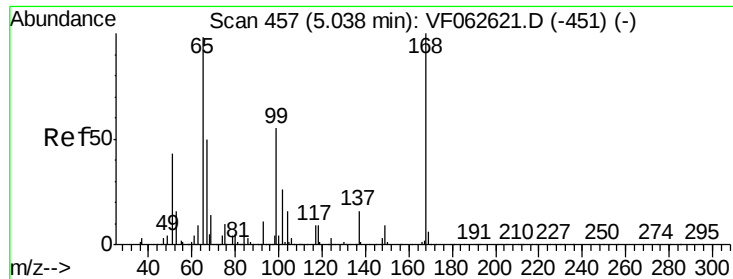
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 12409 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 93.5  | 89.8  | 134.8 |
| 51       | 37.3  | 28.4  | 42.6  |
| 86       | 69.1  | 52.6  | 79.0  |



#29  
Tetrahydrofuran  
Concen: 1.885 ug/l  
RT: 4.29 min Scan# 381  
Delta R.T. 0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 2276  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 38.4  | 38.2  | 57.2  |
| 71       | 81.1  | 35.8  | 53.6# |

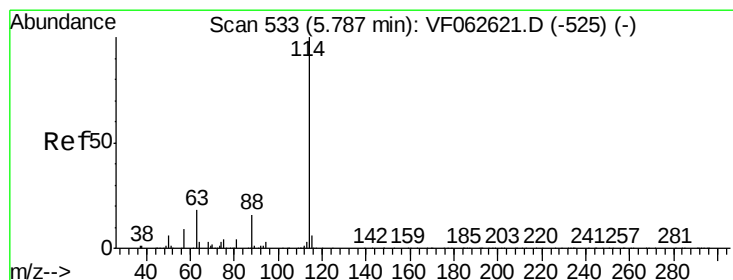
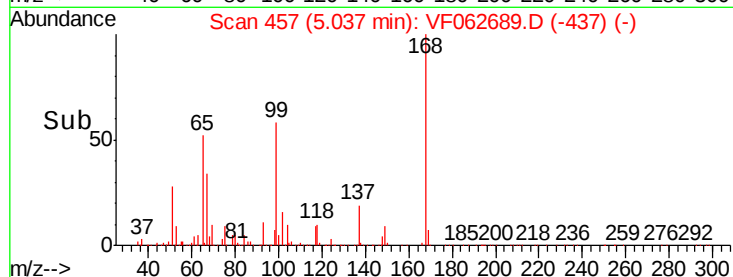
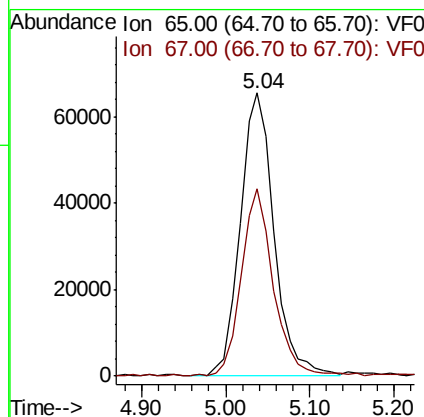
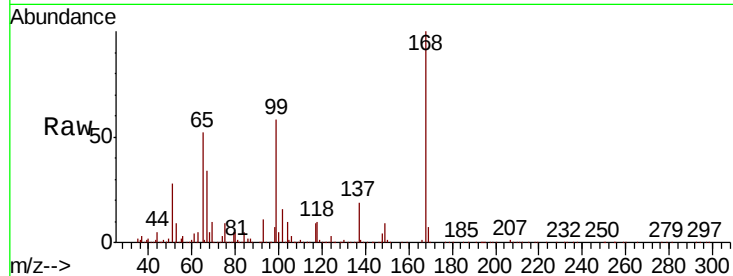




#33  
 1,2-Dichloroethane-d4  
 Concen: 34.053 ug/l  
 RT: 5.04 min Scan# 457  
 Delta R.T. -0.00 min  
 Lab File: VF062689.D  
 Acq: 21 May 2019 18:07

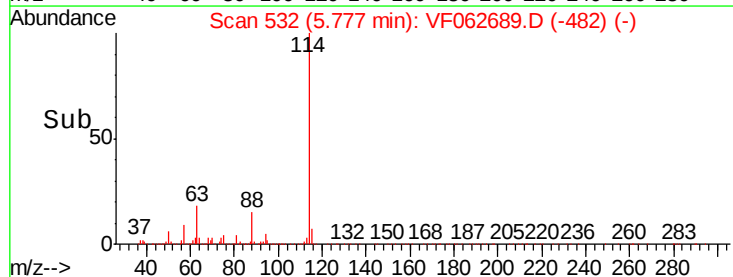
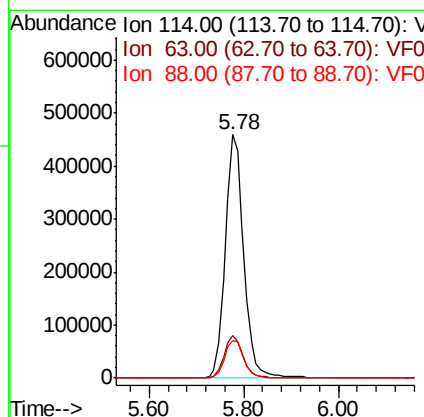
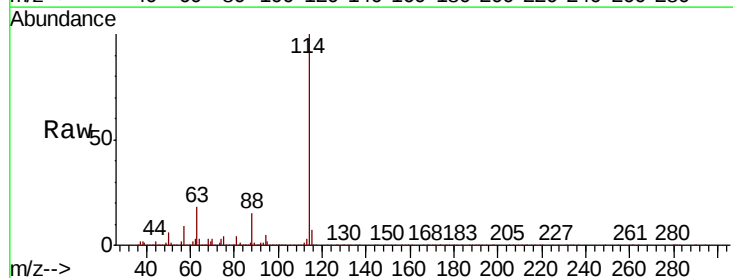
Instrument :  
 MSVOA\_F  
 ClientSampleId :

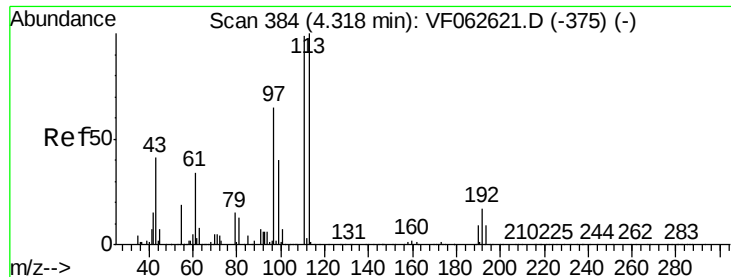
Tot Ion: 65 Resp: 183312  
 Ion Ratio Lower Upper  
 65 100  
 67 66.2 0.0 117.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.78 min Scan# 532  
 Delta R.T. -0.01 min  
 Lab File: VF062689.D  
 Acq: 21 May 2019 18:07

Tgt Ion: 114 Resp: 1236961  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 35.4  
 88 15.4 0.0 32.4

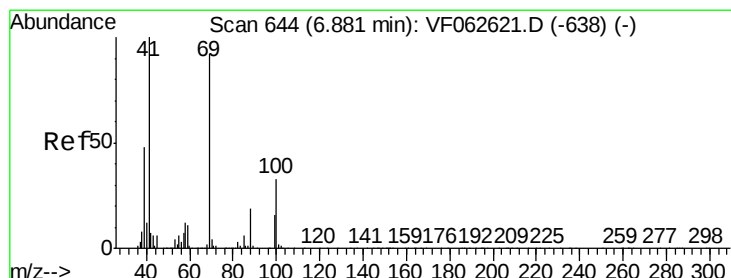
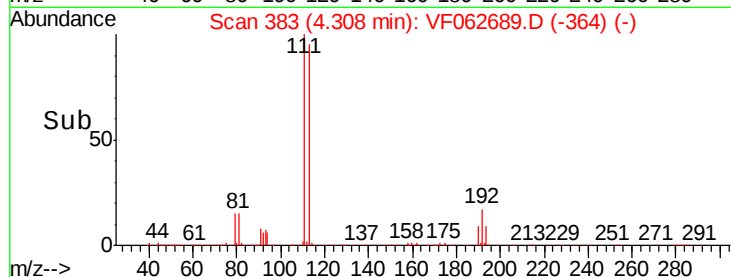
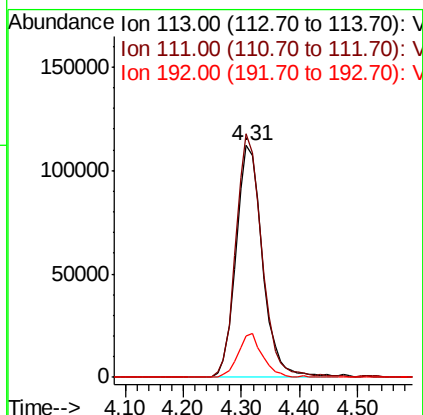
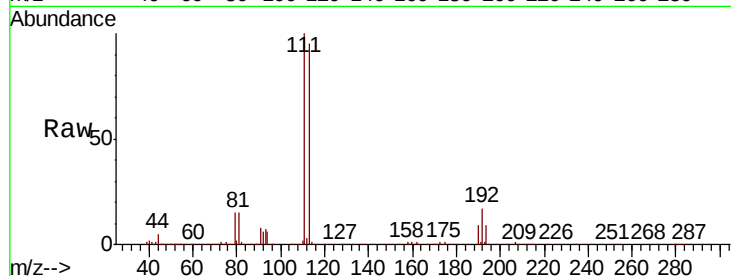




#35  
Dibromofluoromethane  
Concen: 37.471 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

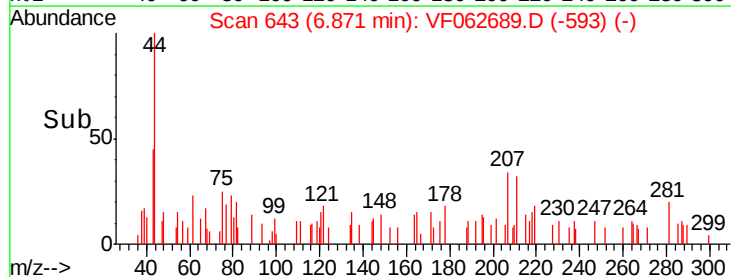
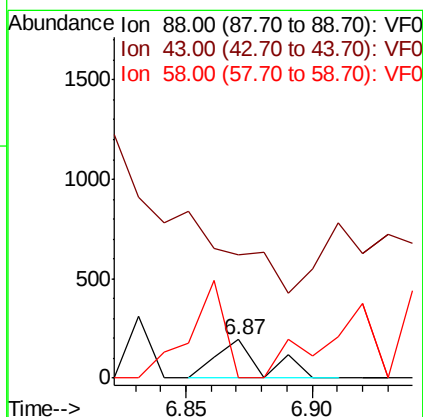
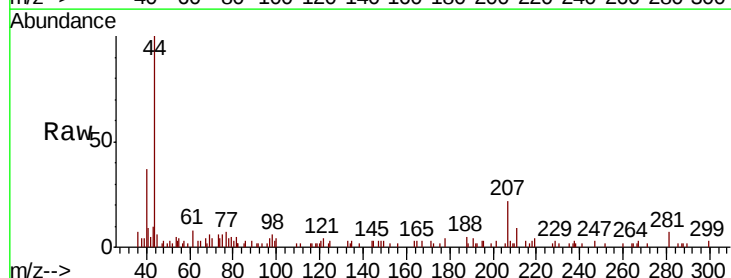
Instrument :  
MSVOA\_F  
ClientSampleId :

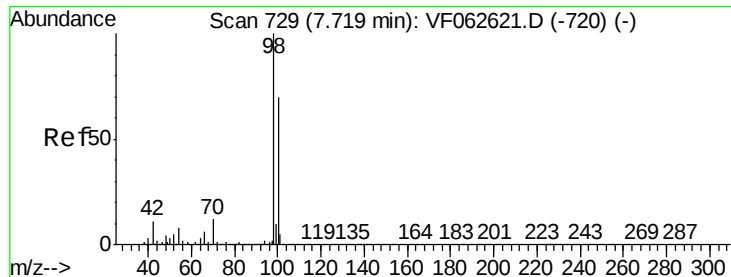
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.0 | 79.4  | 119.2 |
| 192     | 17.8  | 13.4  | 20.2  |



#49  
1,4-Dioxane  
Concen: 5.458 ug/l  
RT: 6.87 min Scan# 643  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 318.6 | 30.0  | 45.0# |
| 58      | 0.0   | 51.1  | 76.7# |

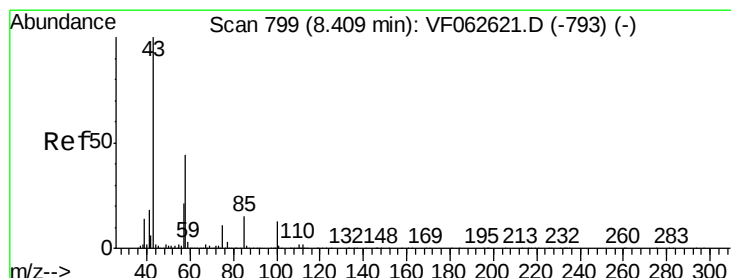
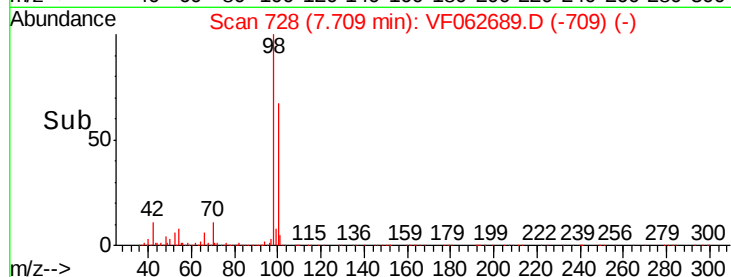
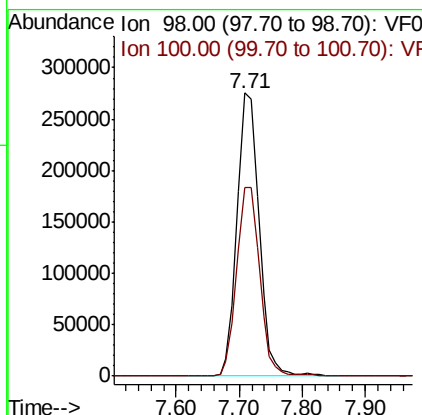
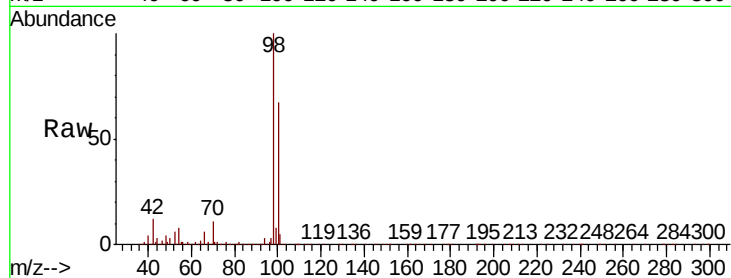




#50  
Toluene-d8  
Concen: 29.523 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

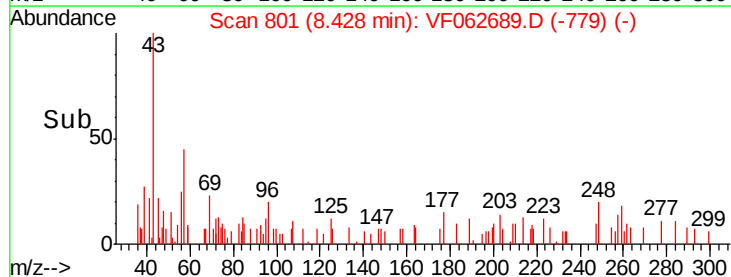
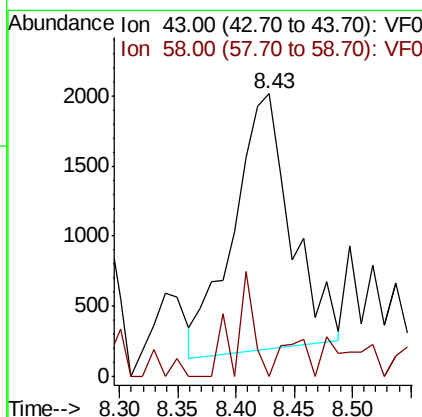
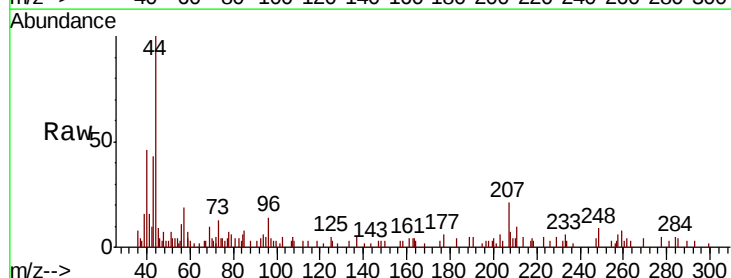
Instrument :  
MSVOA\_F  
ClientSampleId :

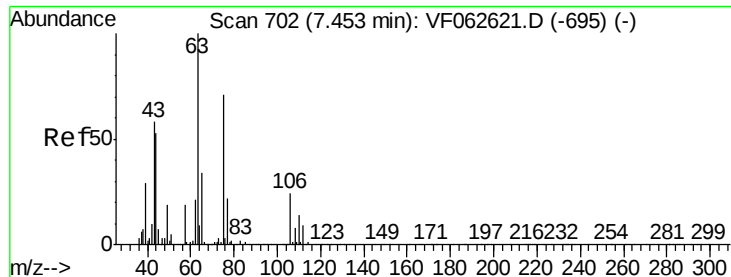
Tot Ion: 98 Resp: 667205  
Ion Ratio Lower Upper  
98 100  
100 66.6 56.2 84.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.355 ug/l  
RT: 8.43 min Scan# 801  
Delta R.T. 0.02 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

Tgt Ion: 43 Resp: 6210  
Ion Ratio Lower Upper  
43 100  
58 0.0 34.9 52.3#

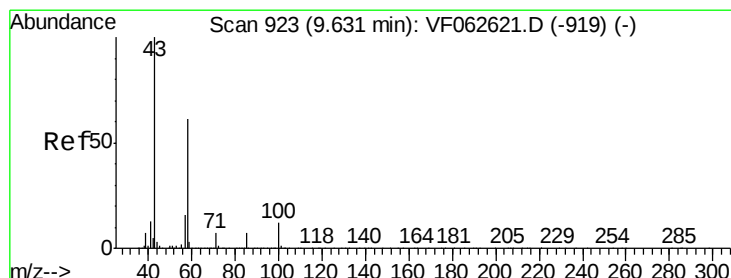
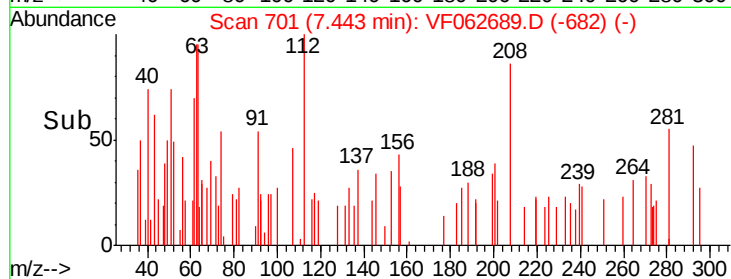
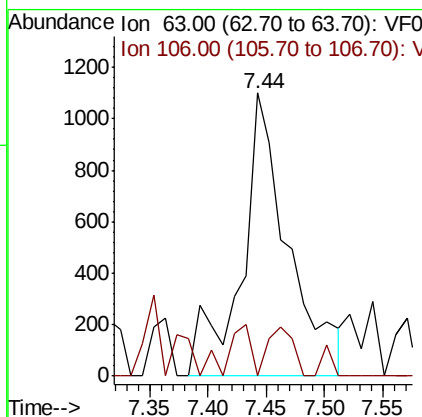
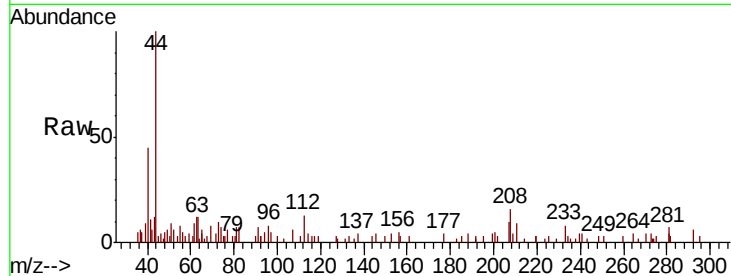




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 1.475 ug/l  
 RT: 7.44 min Scan# 701  
 Delta R.T. -0.01 min  
 Lab File: VF062689.D  
 Acq: 21 May 2019 18:07

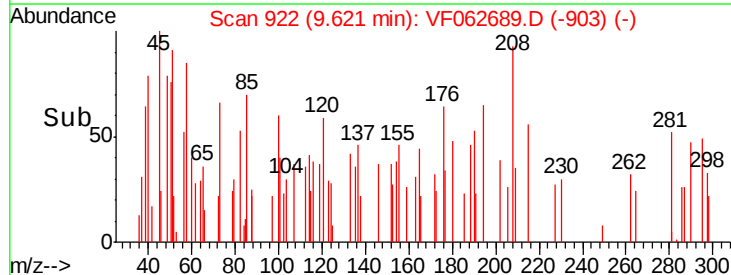
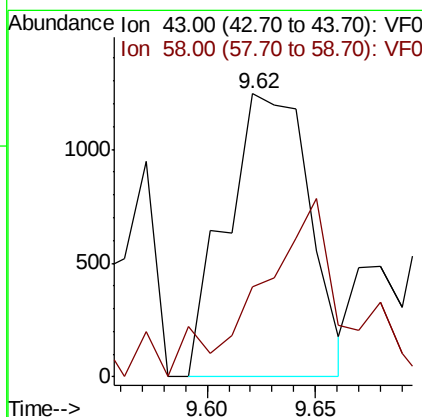
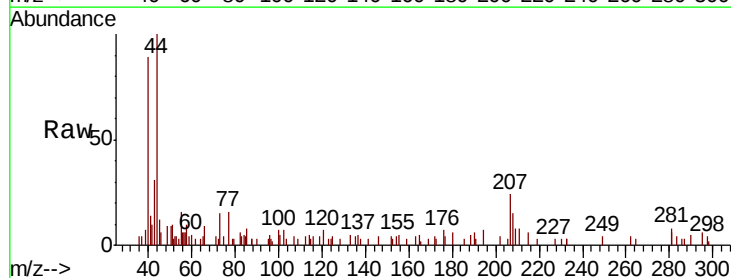
Instrument :  
 MSVOA\_F  
 ClientSampled :

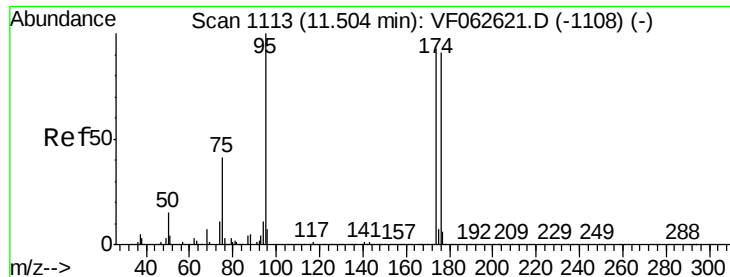
Tot Ion: 63 Resp: 3067  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 19.1 28.7#



#59  
 2-Hexanone  
 Concen: Below Cal  
 RT: 9.62 min Scan# 922  
 Delta R.T. -0.01 min  
 Lab File: VF062689.D  
 Acq: 21 May 2019 18:07

Tgt Ion: 43 Resp: 3325  
 Ion Ratio Lower Upper  
 43 100  
 58 32.0 28.1 84.4

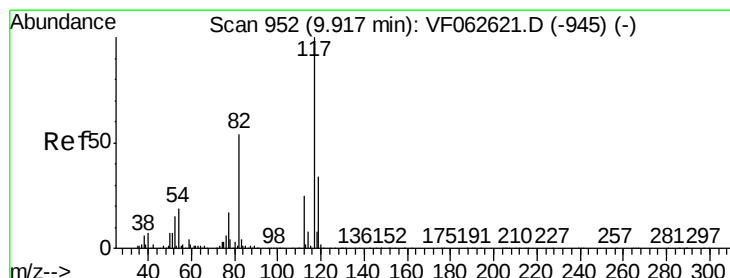
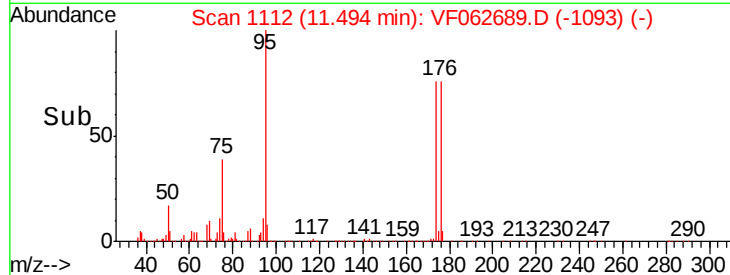
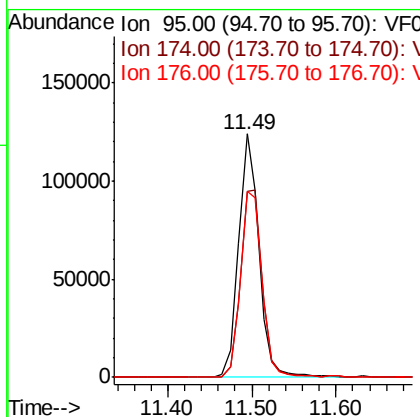
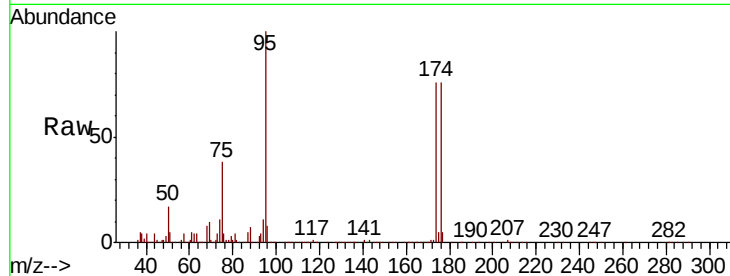




#62  
4-Bromofluorobenzene  
Concen: 24.295 ug/l  
RT: 11.49 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

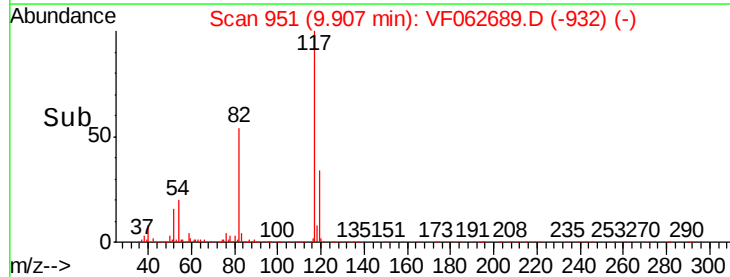
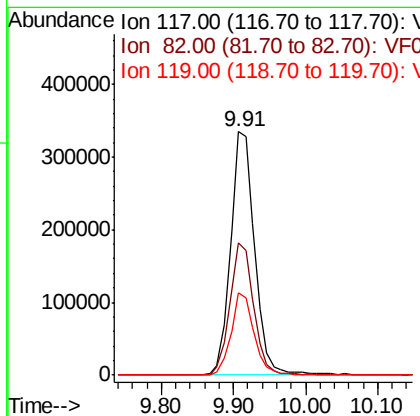
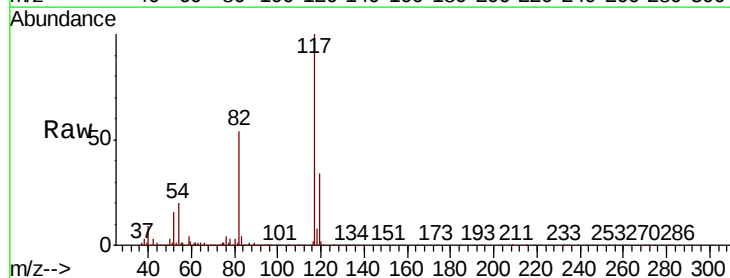
Instrument :  
MSVOA\_F  
ClientSampleId :

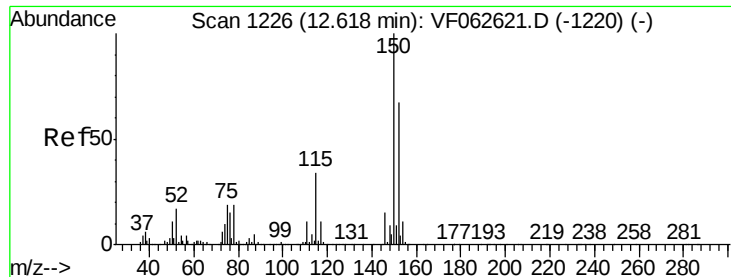
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 76.2  | 0.0   | 185.6 |
| 176     | 76.1  | 0.0   | 182.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.3  | 43.3  | 64.9  |
| 119     | 34.0  | 27.4  | 41.0  |



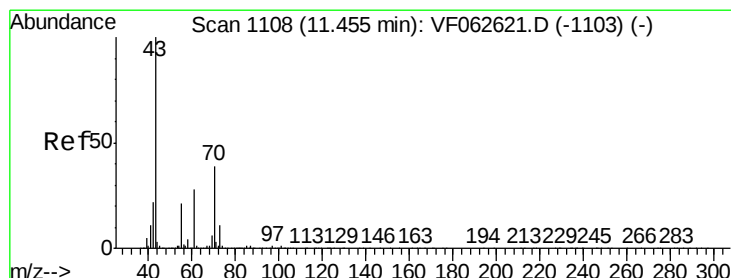
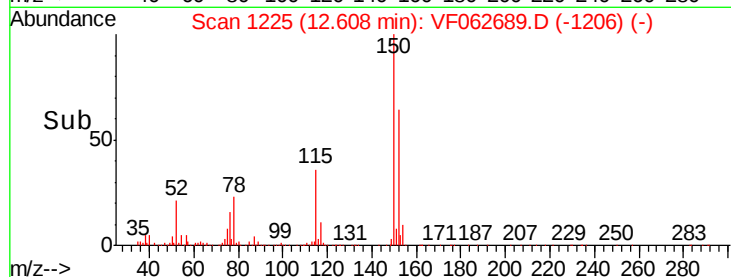
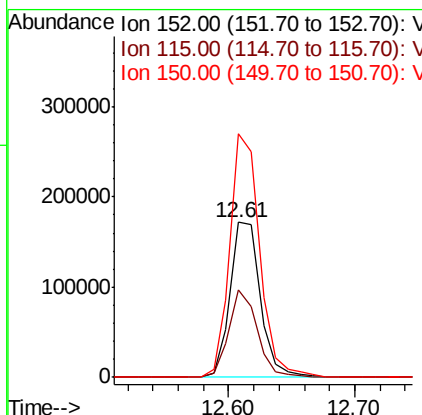
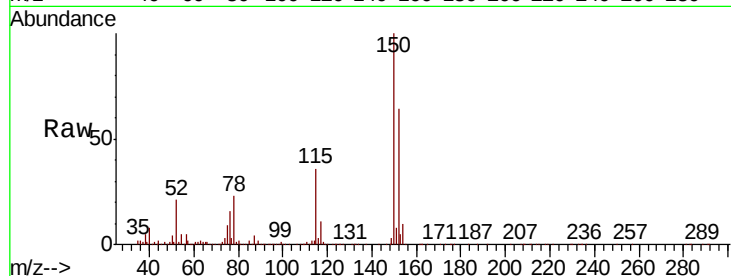


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1225  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

Instrument :  
MSVOA\_F  
ClientSampleId :

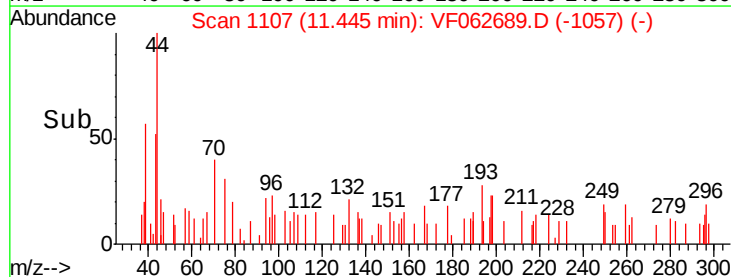
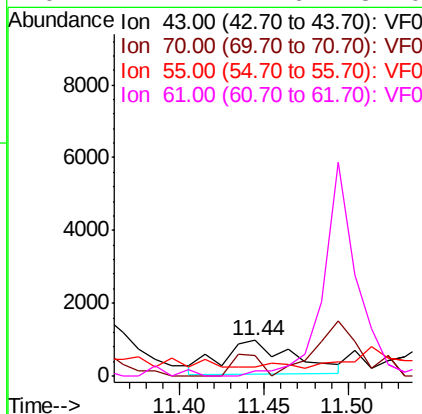
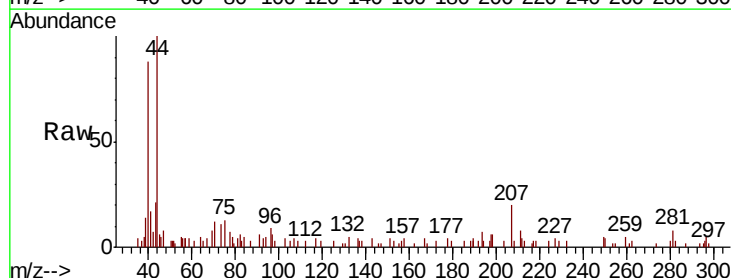
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.4  | 25.2  | 75.6  |
| 150     | 157.0 | 0.0   | 306.2 |

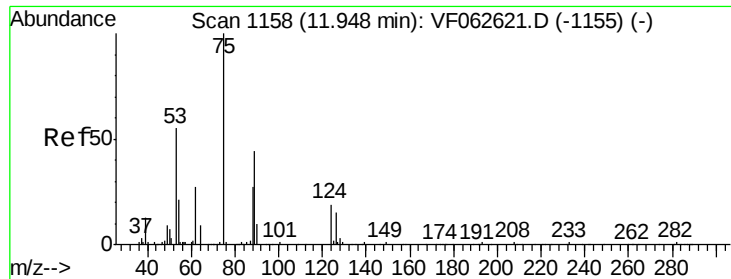


#74

N-amil acetate  
Concen: Below Cal  
RT: 11.44 min Scan# 1107  
Delta R.T. -0.01 min  
Lab File: VF062689.D  
Acq: 21 May 2019 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 70      | 58.1  | 30.9  | 46.3# |
| 55      | 47.3  | 17.0  | 25.4# |
| 61      | 14.1  | 22.6  | 34.0# |





#81

trans-1,4-Dichloro-2-butene

Concen: 1.012 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062689.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 75 Resp: 1236

Ion Ratio Lower Upper

75 100

53 0.0 46.9 70.3#

89 27.3 36.4 54.6#

