

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\  
 Data File : VF061382.D  
 Acq On : 11 Jan 2019 21:56  
 Operator : VA/AP  
 Sample : K1081-02  
 Misc : 6.77g/5mL/MSVOA-F/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SUP-3A-G-2-010819

Quant Time: Jan 12 03:35:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 07:13:51 2019  
 Response via : Initial Calibration

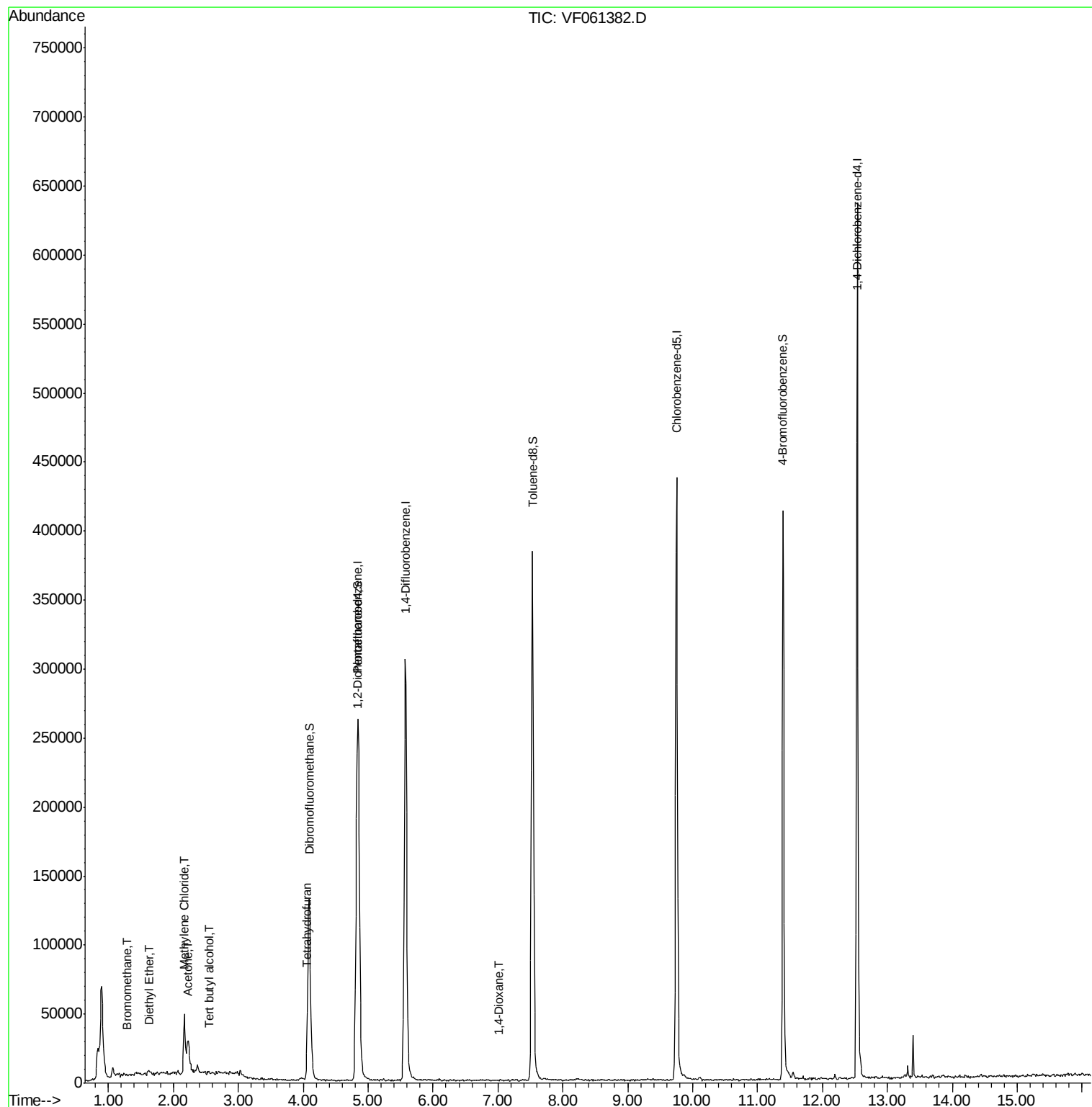
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene       | 4.85  | 168  | 195238   | 50.00     | ug/l   | -0.02    |
| 34) 1,4-Difluorobenzene     | 5.57  | 114  | 348378   | 50.00     | ug/l   | -0.03    |
| 63) Chlorobenzene-d5        | 9.75  | 117  | 306421   | 50.00     | ug/l   | -0.03    |
| 72) 1,4-Dichlorobenzene-d4  | 12.54 | 152  | 151617   | 50.00     | ug/l   | -0.02    |
| System Monitoring Compounds |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.82  | 65   | 107388   | 49.42     | ug/l   | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =         | 98.84% |          |
| 35) Dibromofluoromethane    | 4.09  | 113  | 133069   | 49.92     | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =         | 99.84% |          |
| 50) Toluene-d8              | 7.54  | 98   | 329853   | 41.82     | ug/l   | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =         | 83.64% |          |
| 62) 4-Bromofluorobenzene    | 11.39 | 95   | 159384   | 46.27     | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =         | 92.54% |          |
| Target Compounds            |       |      |          |           |        |          |
|                             |       |      |          |           | Qvalue |          |
| 5) Bromomethane             | 1.28  | 94   | 359      | 3.049     | ug/l # | 6        |
| 8) Diethyl Ether            | 1.63  | 74   | 820      | 1.149     | ug/l   | 77       |
| 11) Tert butyl alcohol      | 2.56  | 59   | 121      | 1.391     | ug/l # | 58       |
| 13) Acrolein                | 1.97  | 56   | 484      | Below Cal | #      | 12       |
| 16) Acetone                 | 2.23  | 43   | 11962    | 23.663    | ug/l # | 84       |
| 20) Methylene Chloride      | 2.17  | 84   | 19701    | 9.212     | ug/l   | 93       |
| 29) Tetrahydrofuran         | 4.05  | 42   | 464      | 1.364     | ug/l # | 61       |
| 49) 1,4-Dioxane             | 7.01  | 88   | 122      | 15.229    | ug/l # | 20       |

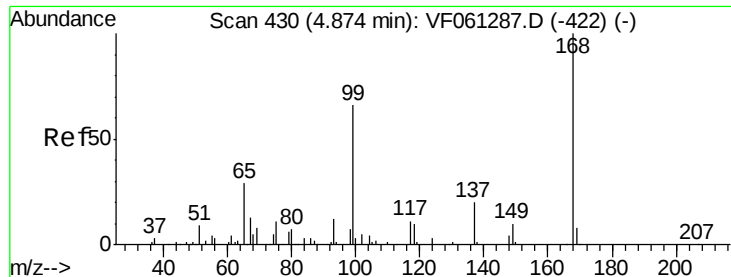
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011119\  
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SUP-3A-G-2-010819

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 07:13:51 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061382.D

Acq: 11 Jan 2019 21:56

Instrument :

MSVOA\_F

ClientSampleId :

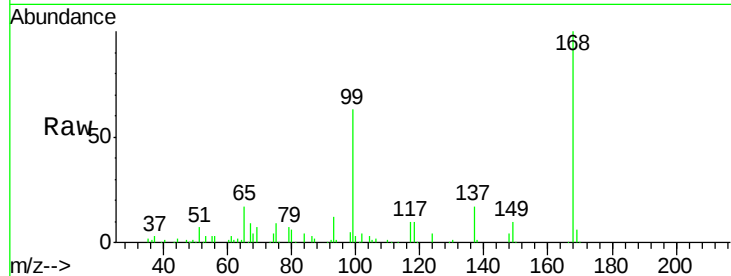
SUP-3A-G-2-010819

Tot Ion:168 Resp: 195238

Ion Ratio Lower Upper

168 100

99 63.3 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

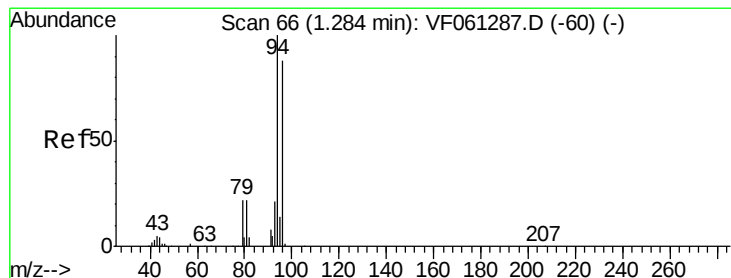
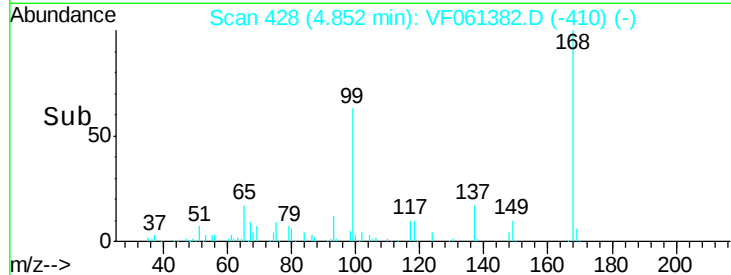
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#5

Bromomethane

Concen: 3.049 ug/l

RT: 1.28 min Scan# 66

Delta R.T. -0.00 min

Lab File: VF061382.D

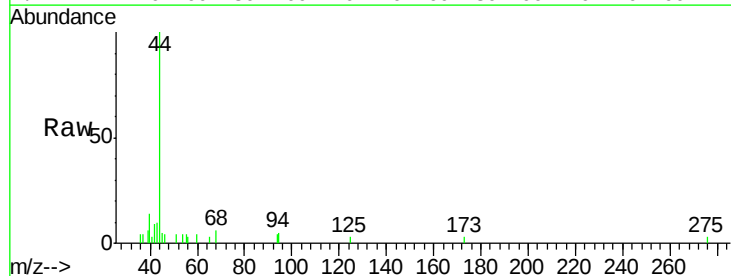
Acq: 11 Jan 2019 21:56

Tgt Ion: 94 Resp: 359

Ion Ratio Lower Upper

94 100

96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.28

300

250

200

150

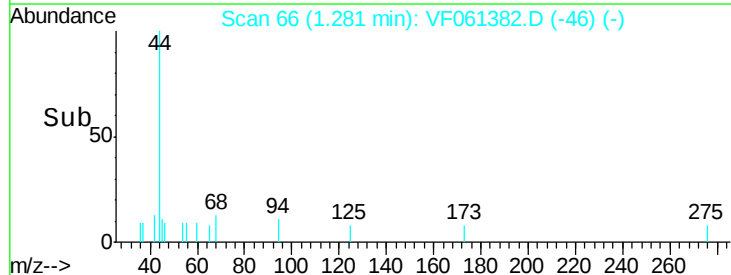
100

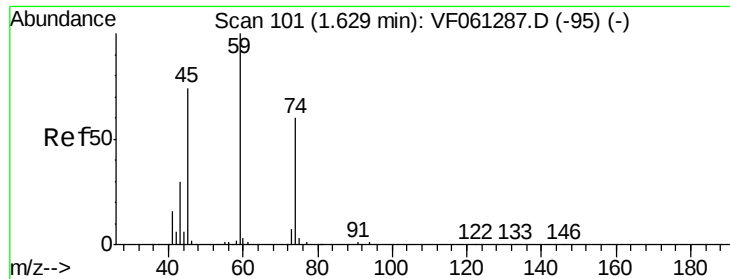
50

0

1.24 1.26 1.28 1.30

Time-->





#8

Diethyl Ether

Concen: 1.149 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061382.D

Acq: 11 Jan 2019 21:56

Instrument :

MSVOA\_F

ClientSampleId :

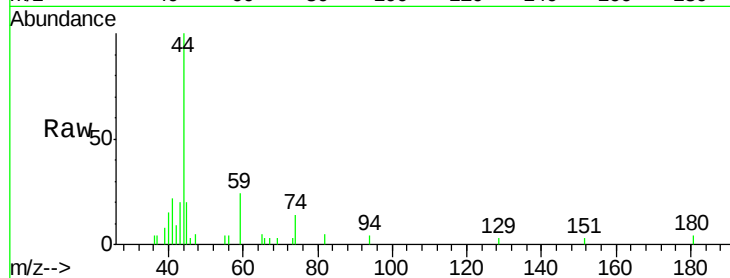
SUP-3A-G-2-010819

Tot Ion: 74 Resp: 820

Ion Ratio Lower Upper

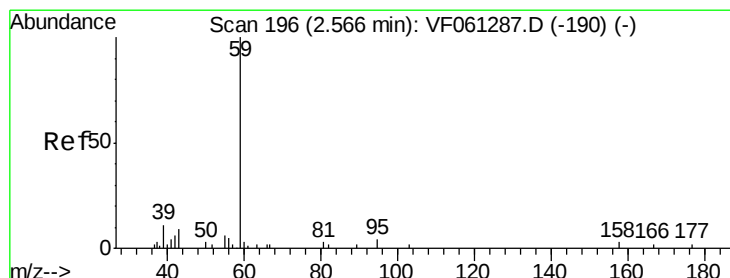
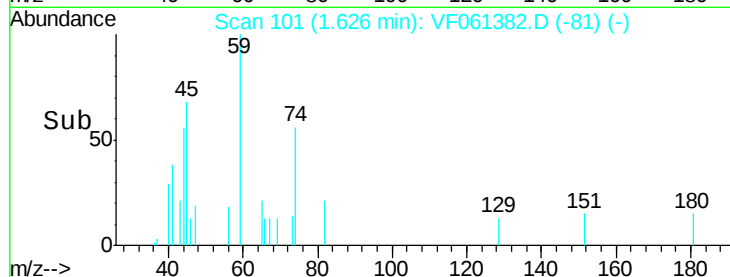
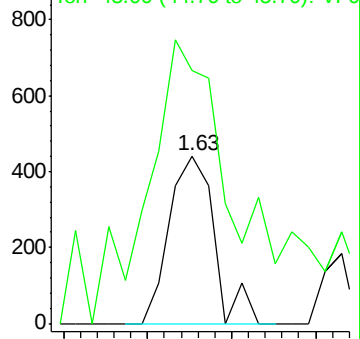
74 100

45 150.7 62.1 186.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 1.391 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.00 min

Lab File: VF061382.D

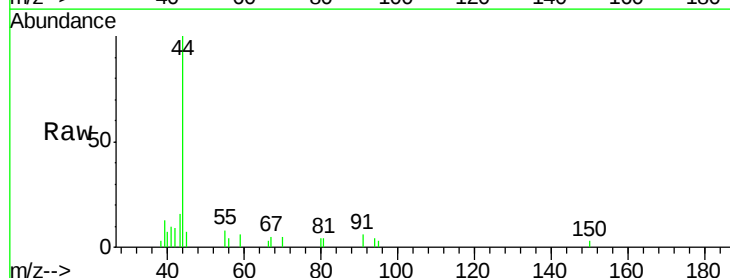
Acq: 11 Jan 2019 21:56

Tgt Ion: 59 Resp: 121

Ion Ratio Lower Upper

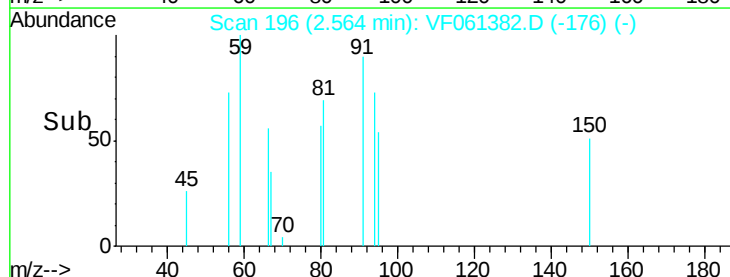
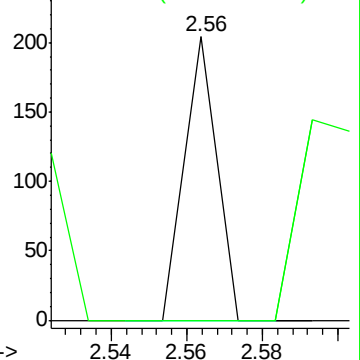
59 100

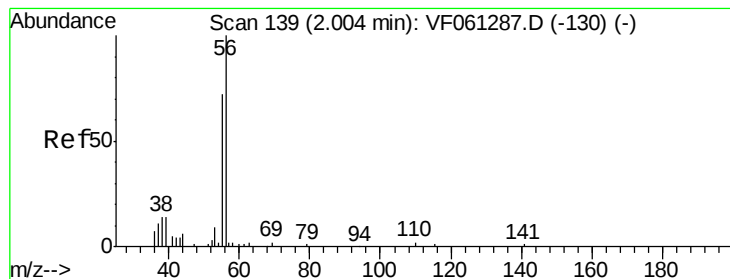
57 0.0 15.1 22.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 1.97 min Scan# 136

Delta R.T. -0.03 min

Lab File: VF061382.D

Acq: 11 Jan 2019 21:56

Instrument :

MSVOA\_F

ClientSampleId :

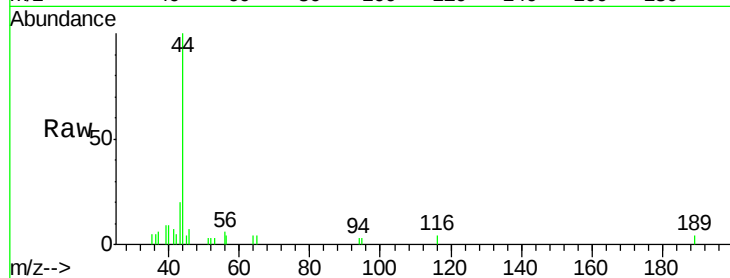
SUP-3A-G-2-010819

Tot Ion: 56 Resp: 484

Ion Ratio Lower Upper

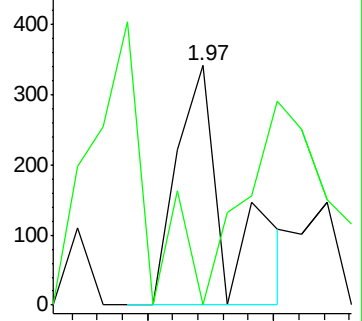
56 100

55 0.0 59.4 89.0#

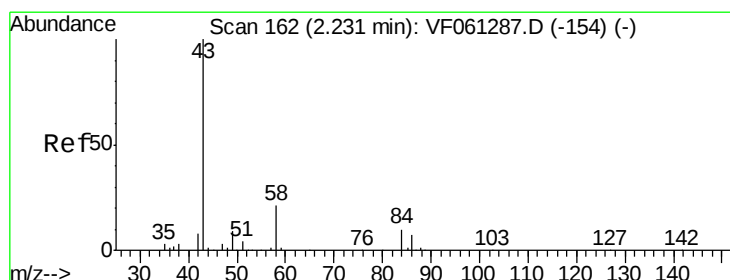
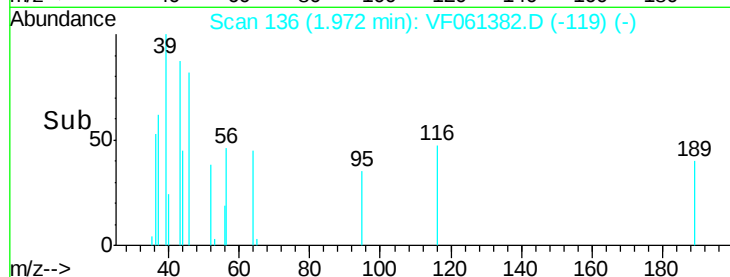


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#16

Acetone

Concen: 23.663 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061382.D

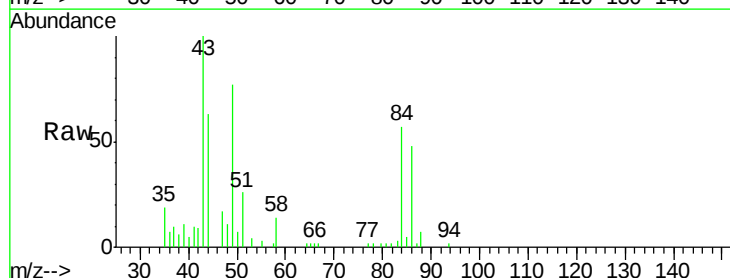
Acq: 11 Jan 2019 21:56

Tgt Ion: 43 Resp: 11962

Ion Ratio Lower Upper

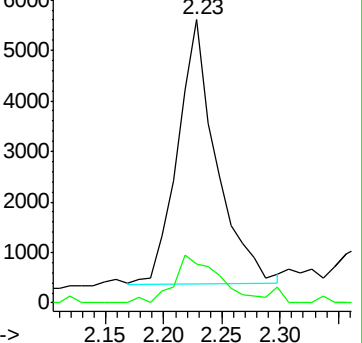
43 100

58 13.5 16.6 25.0#

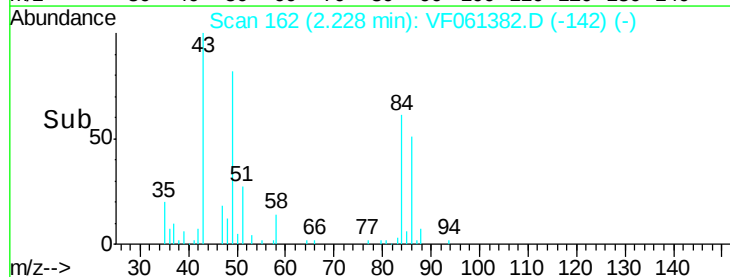


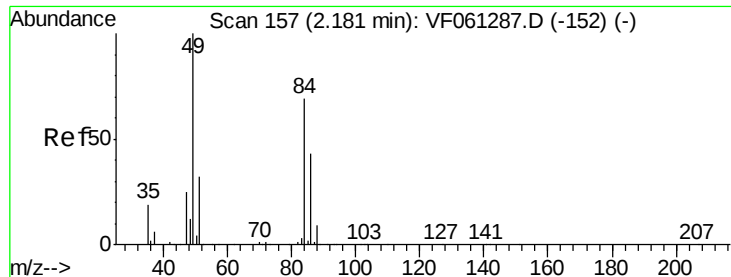
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->

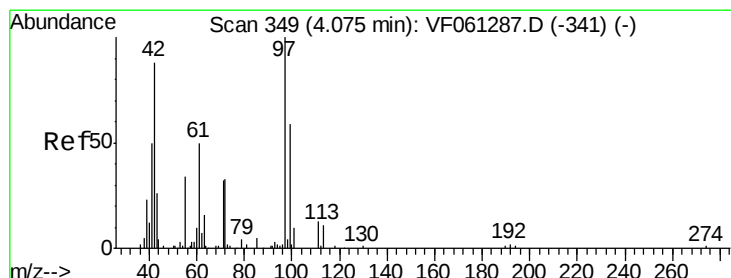
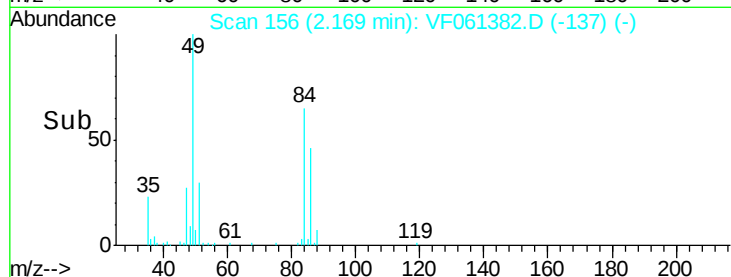
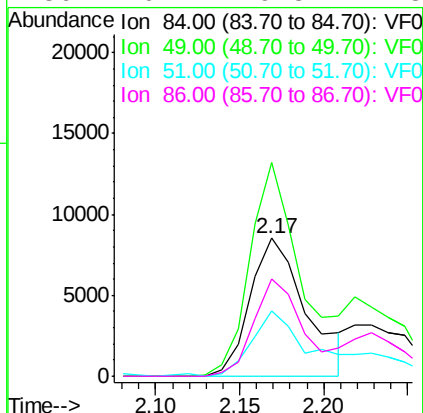
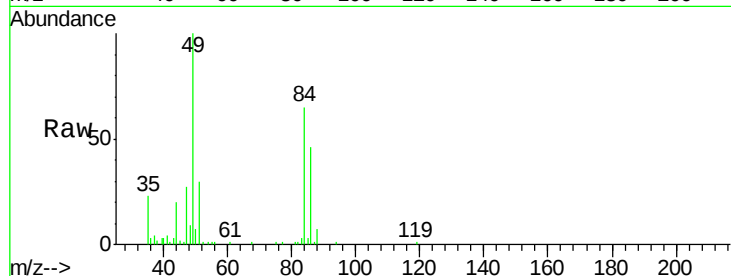




#20  
Methvlene Chloride  
Concen: 9.212 ug/l  
RT: 2.17 min Scan# 156  
Delta R.T. -0.01 min  
Lab File: VF061382.D  
Acq: 11 Jan 2019 21:56

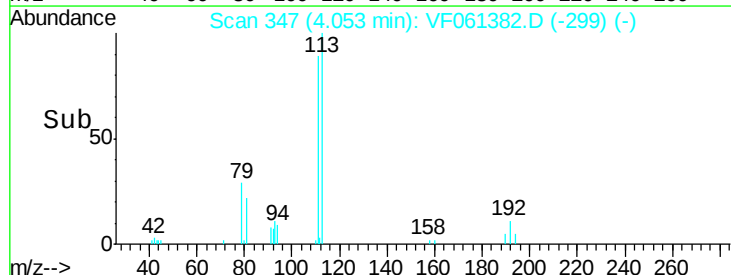
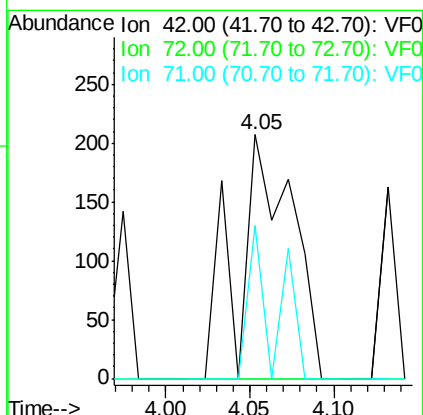
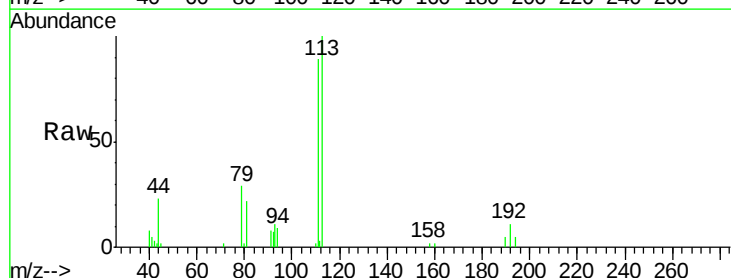
Instrument :  
MSVOA\_F  
ClientSampleId :  
SUP-3A-G-2-010819

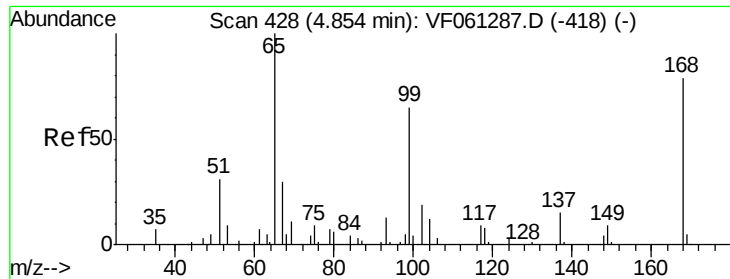
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 19701 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 154.6 | 116.6 | 175.0 |
| 51       | 47.0  | 37.7  | 56.5  |
| 86       | 70.4  | 49.8  | 74.8  |



#29  
Tetrahydrofuran  
Concen: 1.364 ug/l  
RT: 4.05 min Scan# 347  
Delta R.T. -0.02 min  
Lab File: VF061382.D  
Acq: 11 Jan 2019 21:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 464   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 32.3  | 48.5# |
| 71       | 30.6  | 29.5  | 44.3  |

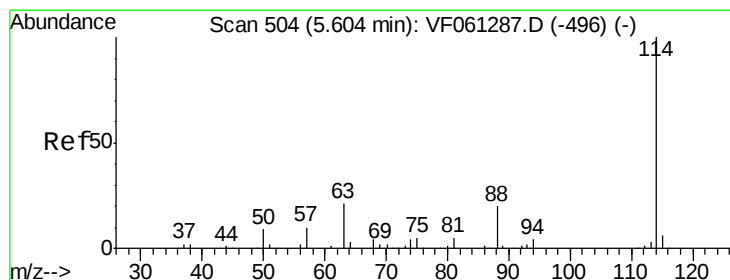
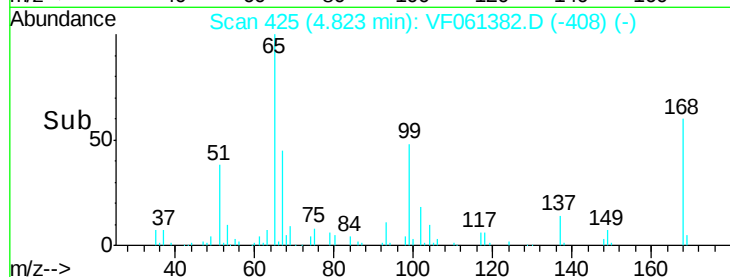
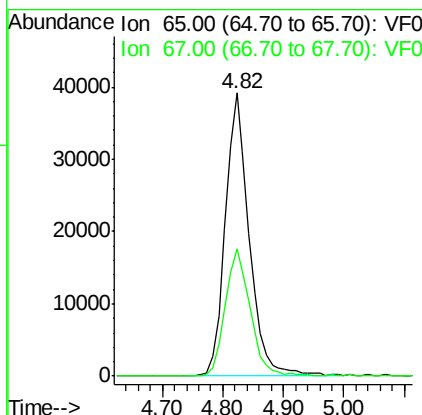
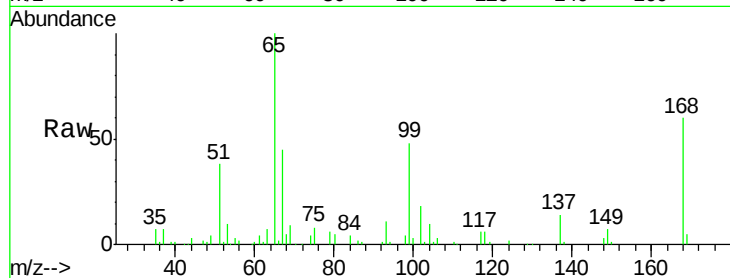




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.417 ug/l  
 RT: 4.82 min Scan# 425  
 Delta R.T. -0.03 min  
 Lab File: VF061382.D  
 Acq: 11 Jan 2019 21:56

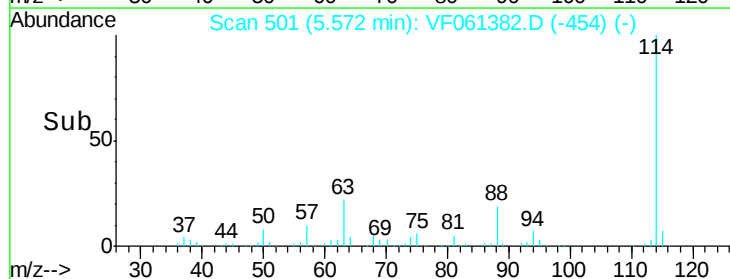
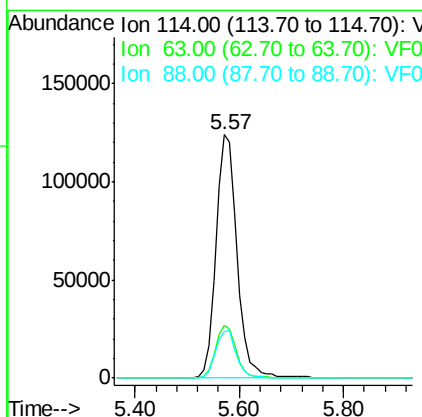
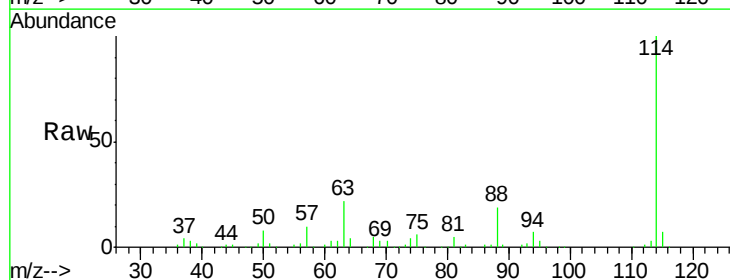
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SUP-3A-G-2-010819

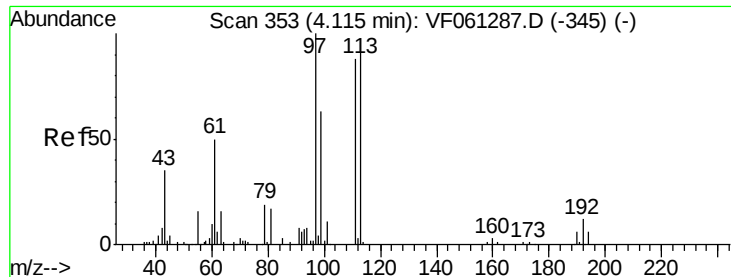
Tot Ion: 65 Resp: 107388  
 Ion Ratio Lower Upper  
 65 100  
 67 45.0 0.0 98.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.57 min Scan# 501  
 Delta R.T. -0.03 min  
 Lab File: VF061382.D  
 Acq: 11 Jan 2019 21:56

Tgt Ion: 114 Resp: 348378  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 42.8  
 88 19.2 0.0 40.0





#35

Dibromofluoromethane

Concen: 49.920 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061382.D

Acq: 11 Jan 2019 21:56

Instrument :

MSVOA\_F

ClientSampleId :

SUP-3A-G-2-010819

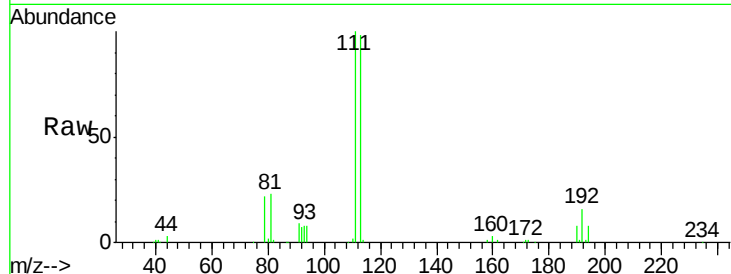
Tot Ion:113 Resp: 133069

Ion Ratio Lower Upper

113 100

111 102.1 78.0 117.0

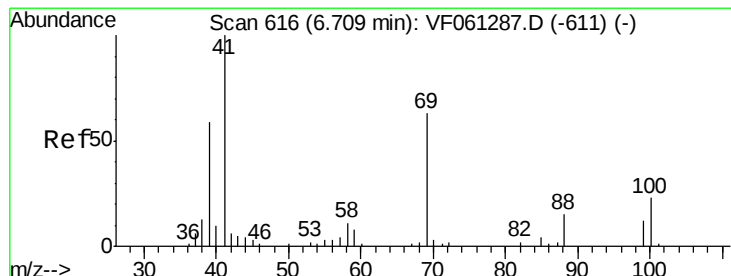
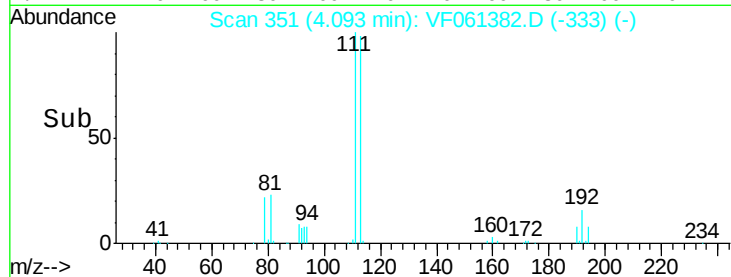
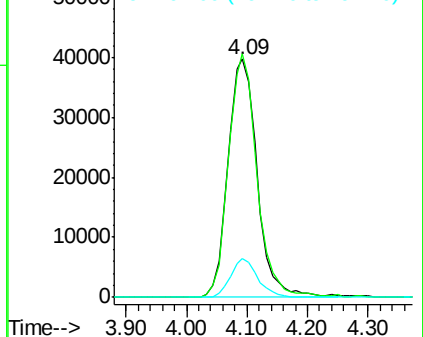
192 16.5 10.6 16.0#



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: 15.229 ug/l

RT: 7.01 min Scan# 647

Delta R.T. 0.30 min

Lab File: VF061382.D

Acq: 11 Jan 2019 21:56

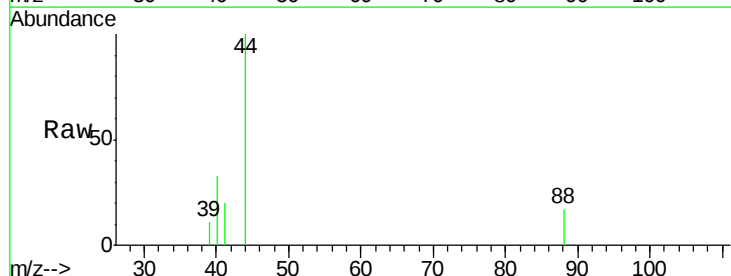
Tgt Ion: 88 Resp: 122

Ion Ratio Lower Upper

88 100

43 0.0 38.5 57.7#

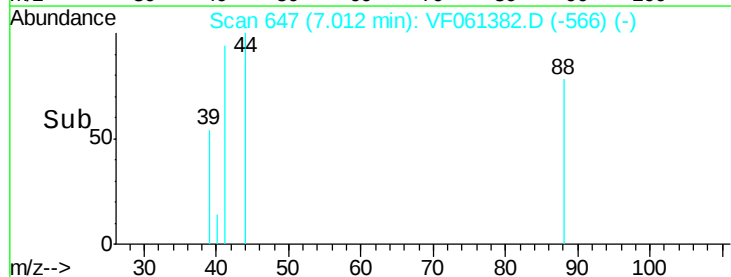
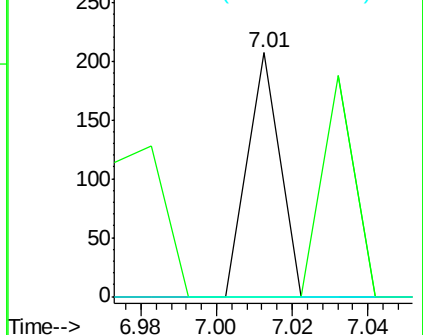
58 0.0 57.0 85.4#

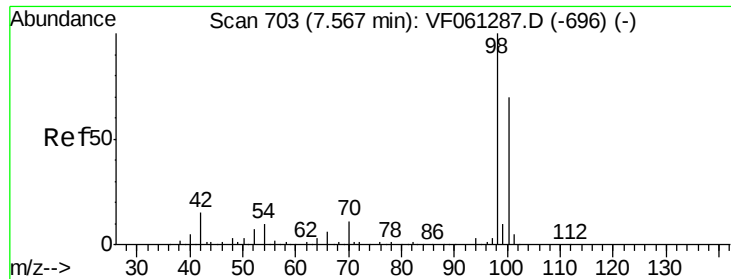


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 41.815 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061382.D

Acq: 11 Jan 2019 21:56

Instrument :

MSVOA\_F

ClientSampleId :

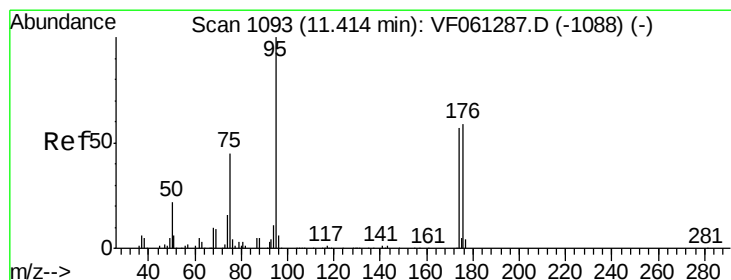
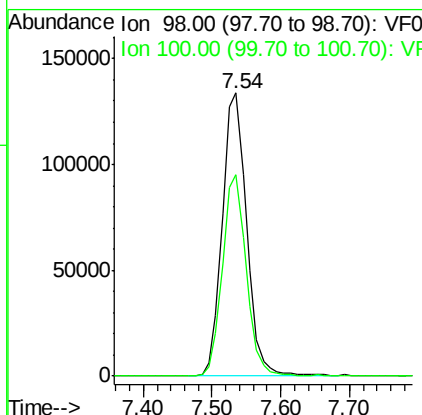
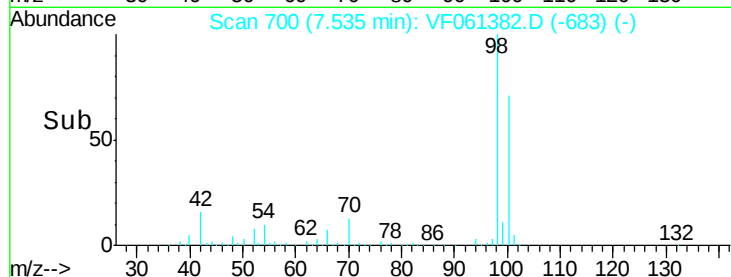
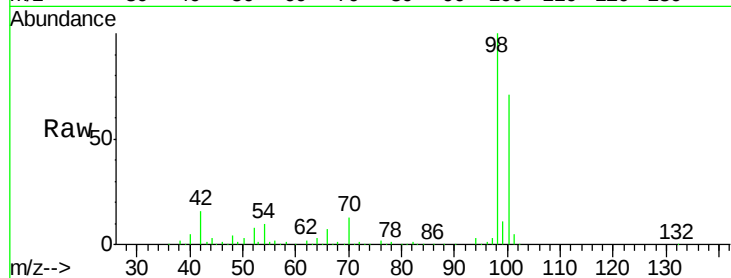
SUP-3A-G-2-010819

Tot Ion: 98 Resp: 329853

Ion Ratio Lower Upper

98 100

100 71.3 55.6 83.4



#62

4-Bromofluorobenzene

Concen: 46.272 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061382.D

Acq: 11 Jan 2019 21:56

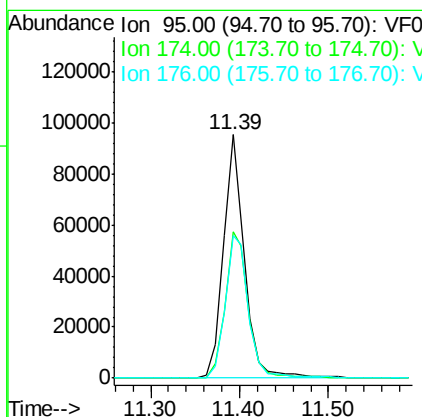
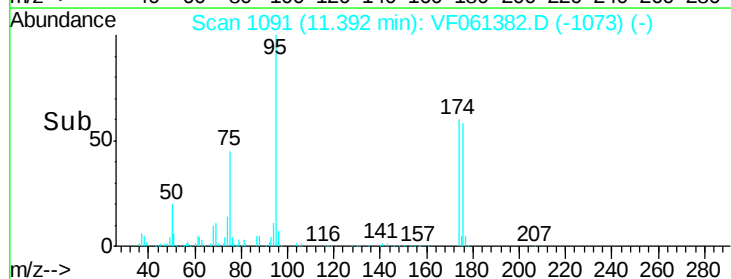
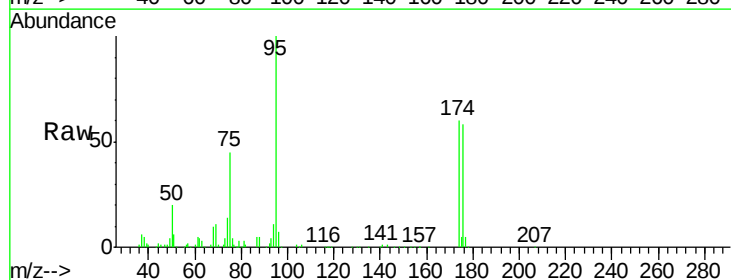
Tgt Ion: 95 Resp: 159384

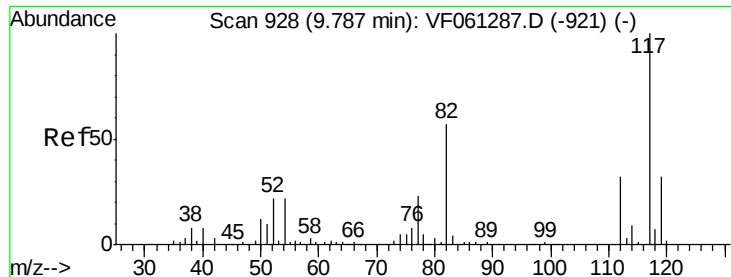
Ion Ratio Lower Upper

95 100

174 60.0 0.0 114.2

176 58.3 0.0 117.8

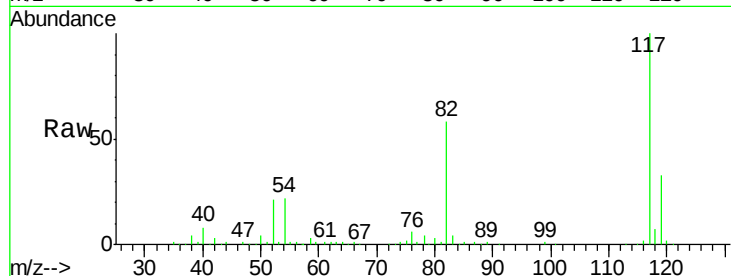




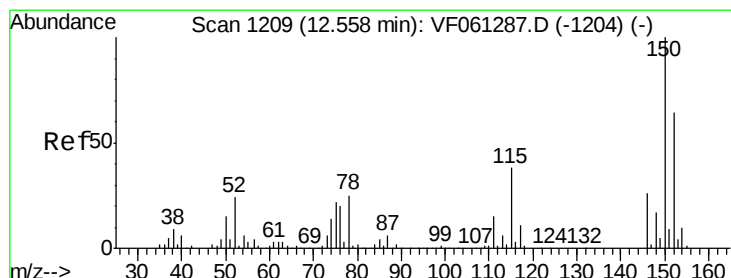
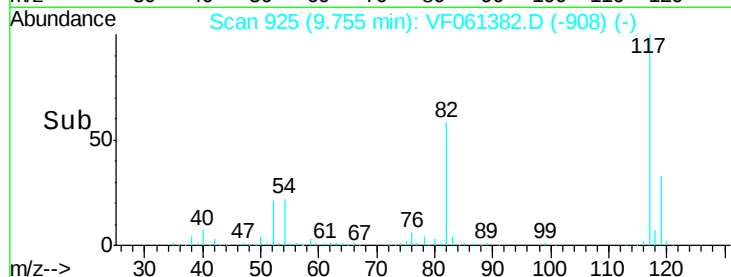
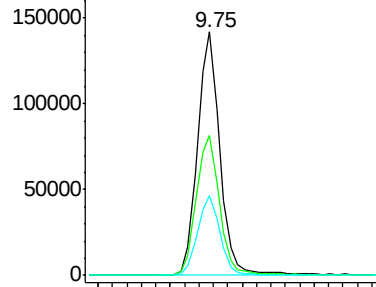
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.75 min Scan# 925  
Delta R.T. -0.03 min  
Lab File: VF061382.D  
Acq: 11 Jan 2019 21:56

Instrument :  
MSVOA\_F  
ClientSampleId :  
SUP-3A-G-2-010819

Tot Ion:117 Resp: 306421  
Ion Ratio Lower Upper  
117 100  
82 57.6 45.3 67.9  
119 32.9 25.4 38.0

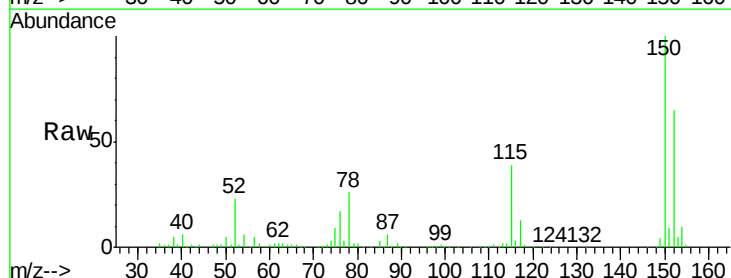


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.54 min Scan# 1207  
Delta R.T. -0.02 min  
Lab File: VF061382.D  
Acq: 11 Jan 2019 21:56

Tgt Ion:152 Resp: 151617  
Ion Ratio Lower Upper  
152 100  
115 60.3 29.6 88.9  
150 153.5 0.0 315.4



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V

