

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011419\  
 Data File : VF061401.D  
 Acq On : 14 Jan 2019 20:54  
 Operator : VA/AP  
 Sample : K1139-17  
 Misc : 2.96g/5mL/MSVOA-F/SOIL  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S-9

Quant Time: Jan 14 22:17:14 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      | 4.86  | 168  | 120244   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 205562   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.76  | 117  | 122852   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 20697    | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 95542    | 71.39 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 142.78% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 113316   | 72.04 | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 144.08% |          |
| 50) Toluene-d8              | 7.54  | 98   | 200351   | 43.04 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 86.08%  |          |
| 62) 4-Bromofluorobenzene    | 11.40 | 95   | 41972    | 20.65 | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 41.30%  |          |

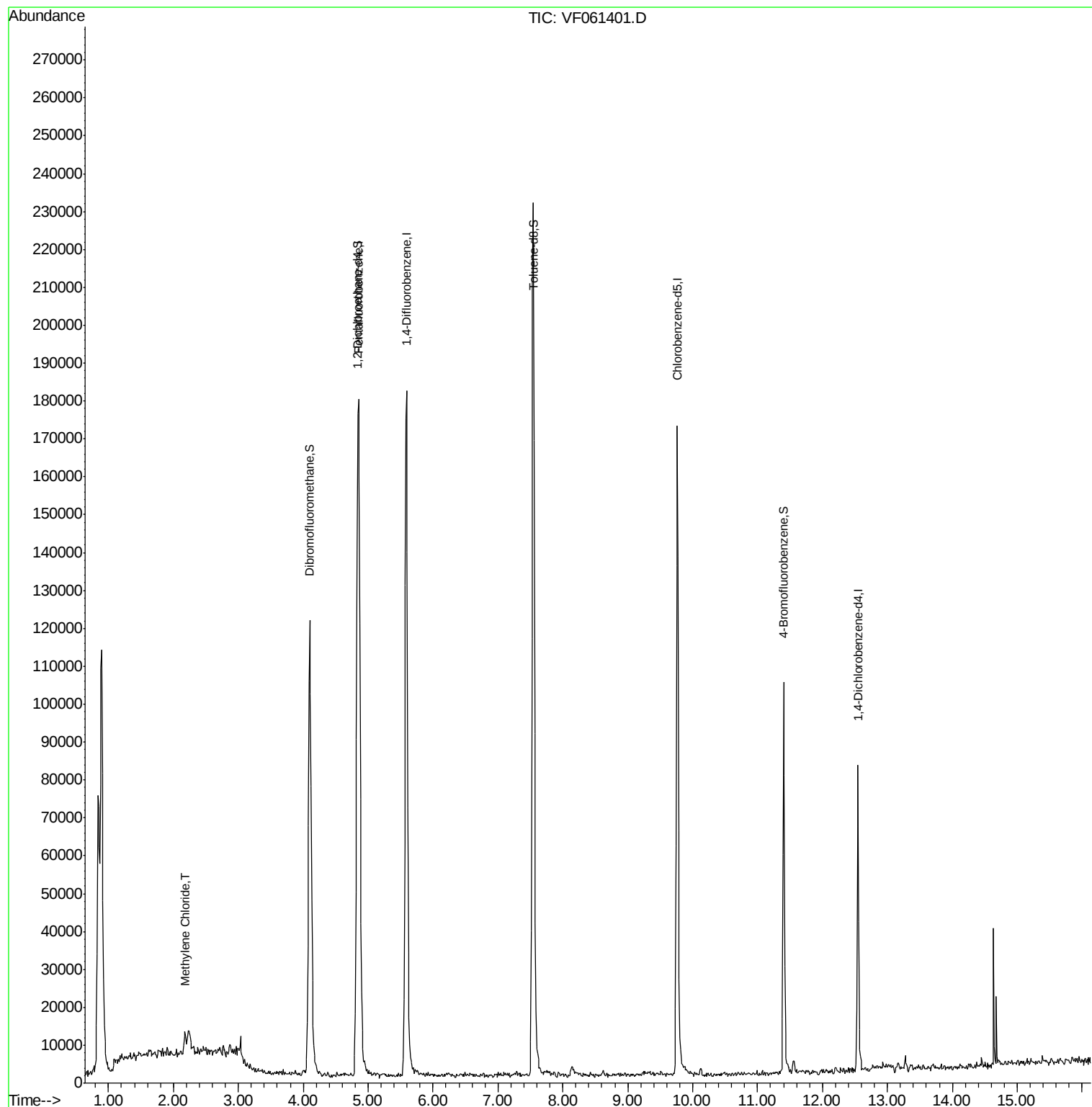
| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Qvalue |
|------------------------|------|------|----------|-------|-------|--------|
| 20) Methylene Chloride | 2.18 | 84   | 5087m    | 3.862 | ug/l  |        |

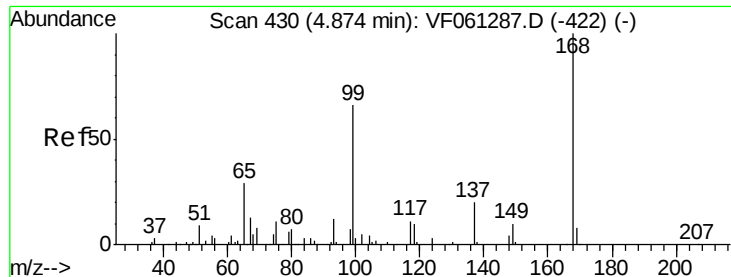
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011419\  
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ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
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Quant Time: Jan 14 22:17:14 2019  
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: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061401.D

Acq: 14 Jan 2019 20:54

Instrument :

MSVOA\_F

ClientSampled :

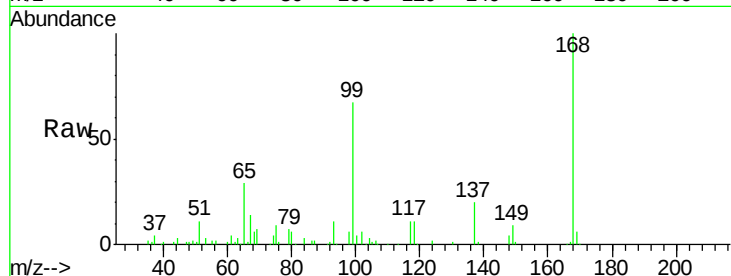
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Tot Ion:168 Resp: 120244

Ion Ratio Lower Upper

168 100

99 67.1 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

40000

30000

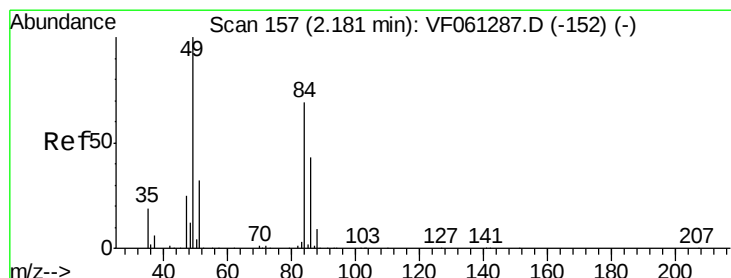
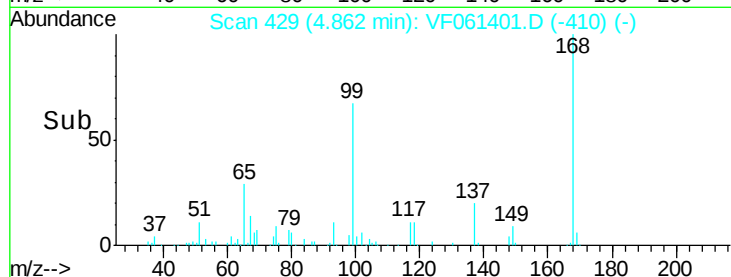
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#20

Methylene Chloride

Concen: 3.862 ug/l m

RT: 2.18 min Scan# 157

Delta R.T. -0.00 min

Lab File: VF061401.D

Acq: 14 Jan 2019 20:54

Tgt Ion: 84 Resp: 5087

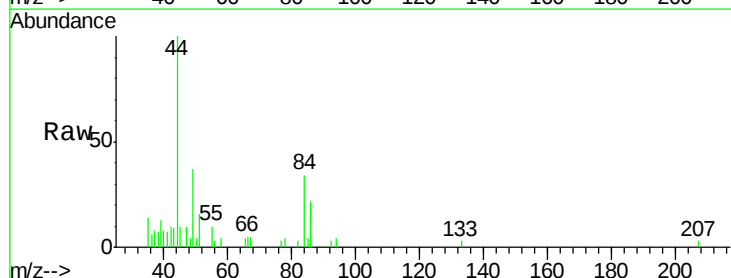
Ion Ratio Lower Upper

84 100

49 108.7 116.6 175.0#

51 48.3 37.7 56.5

86 64.9 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

2000

1500

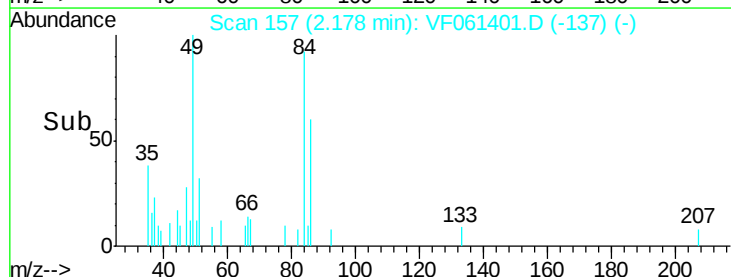
1000

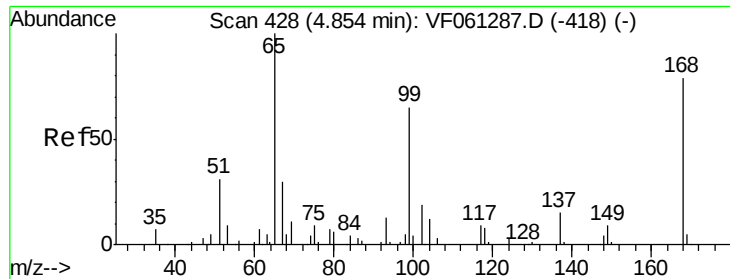
500

0

Time-->

2.10 2.20 2.30 2.40

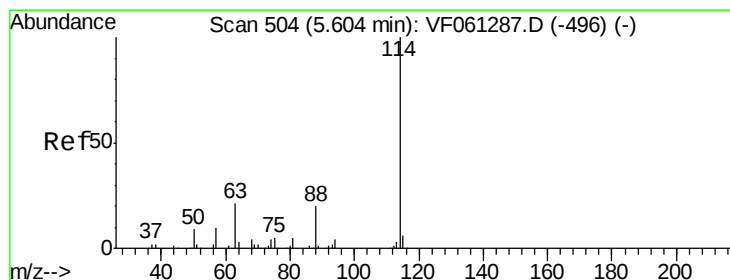
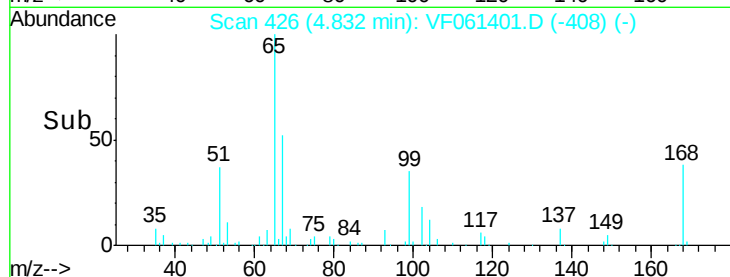
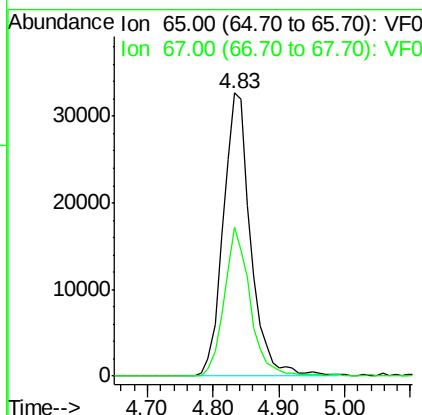
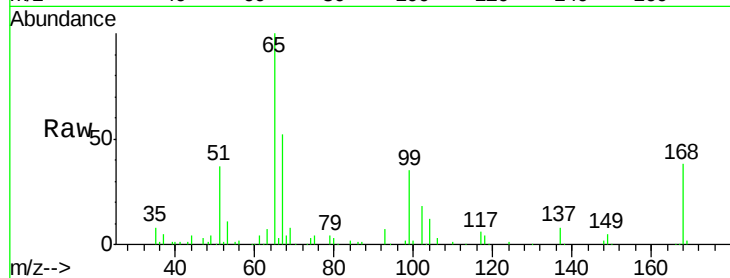




#33  
 1,2-Dichloroethane-d4  
 Concen: 71.386 ug/l  
 RT: 4.83 min Scan# 426  
 Delta R.T. -0.02 min  
 Lab File: VF061401.D  
 Acq: 14 Jan 2019 20:54

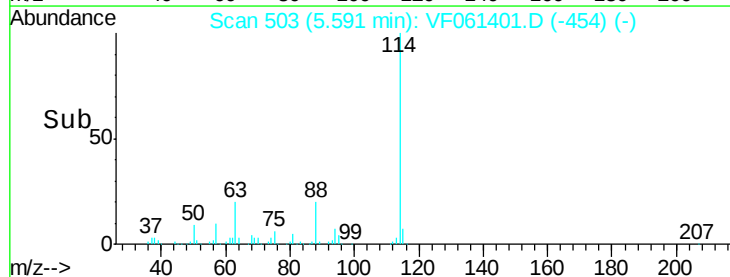
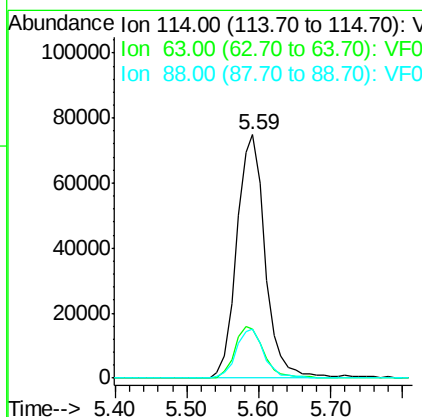
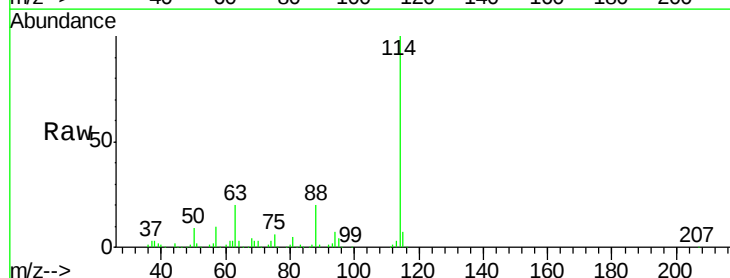
Instrument :  
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 ClientSampleId :  
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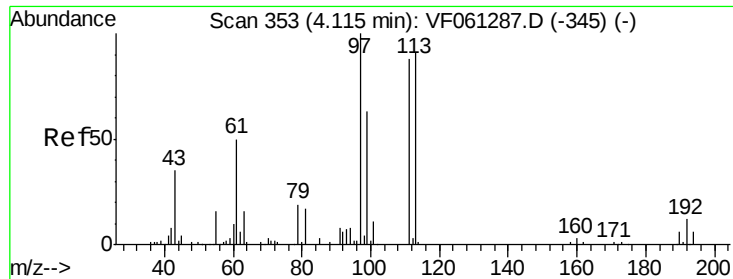
Tot Ion: 65 Resp: 95542  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 0.0 98.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.59 min Scan# 503  
 Delta R.T. -0.01 min  
 Lab File: VF061401.D  
 Acq: 14 Jan 2019 20:54

Tgt Ion: 114 Resp: 205562  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 42.8  
 88 20.0 0.0 40.0

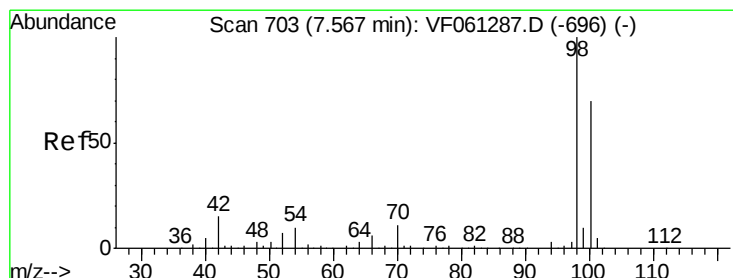
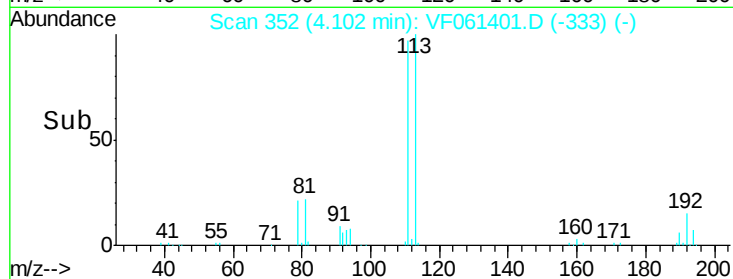
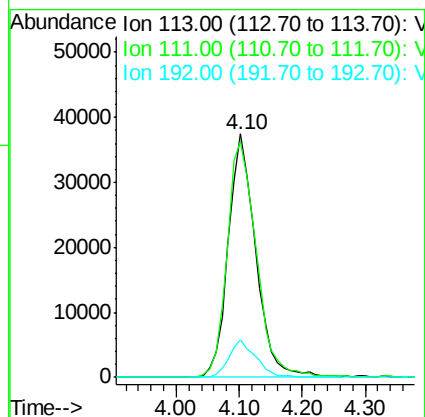
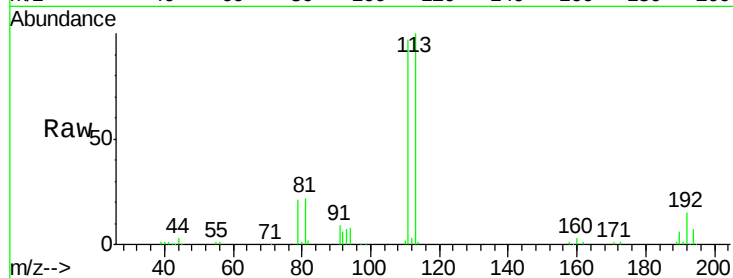




#35  
 Dibromofluoromethane  
 Concen: 72.043 ug/l  
 RT: 4.10 min Scan# 352  
 Delta R.T. -0.01 min  
 Lab File: VF061401.D  
 Acq: 14 Jan 2019 20:54

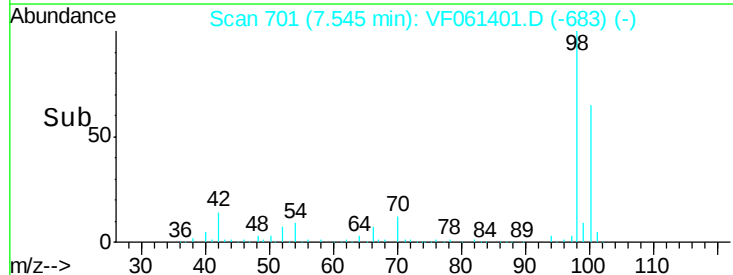
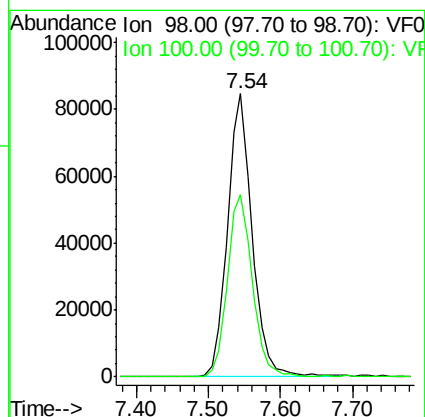
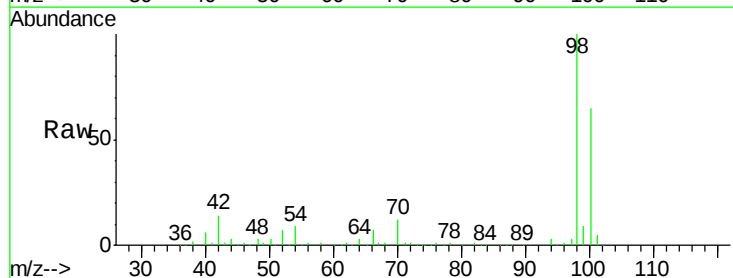
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
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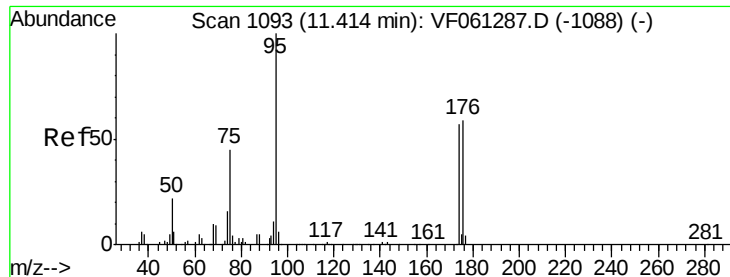
Tot Ion:113 Resp: 113316  
 Ion Ratio Lower Upper  
 113 100  
 111 96.7 78.0 117.0  
 192 15.5 10.6 16.0



#50  
 Toluene-d8  
 Concen: 43.044 ug/l  
 RT: 7.54 min Scan# 701  
 Delta R.T. -0.02 min  
 Lab File: VF061401.D  
 Acq: 14 Jan 2019 20:54

Tgt Ion: 98 Resp: 200351  
 Ion Ratio Lower Upper  
 98 100  
 100 64.5 55.6 83.4





#62

4-Bromofluorobenzene

Concen: 20.651 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061401.D

Acq: 14 Jan 2019 20:54

Instrument :

MSVOA\_F

ClientSampled :

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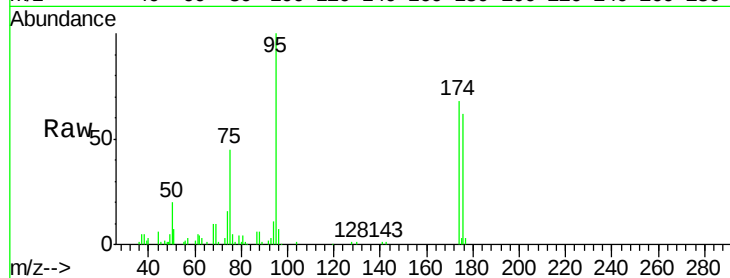
Tot Ion: 95 Resp: 41972

Ion Ratio Lower Upper

95 100

174 67.7 0.0 114.2

176 61.6 0.0 117.8

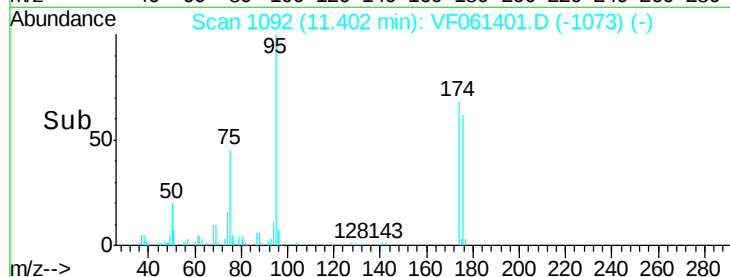


Abundance Ion 95.00 (94.70 to 95.70): VF061287.D (-1088) (-)

Ion 174.00 (173.70 to 174.70): VF061287.D (-1088) (-)

Ion 176.00 (175.70 to 176.70): VF061287.D (-1088) (-)

Time-->



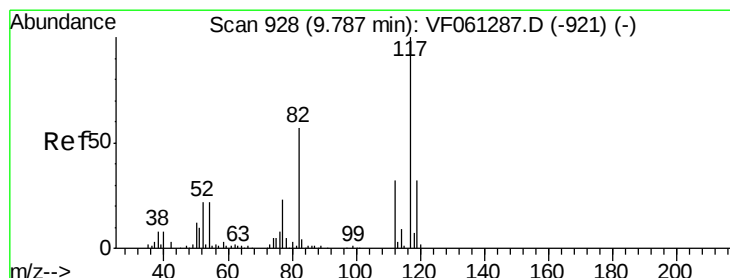
Abundance

Ion 95.00 (94.70 to 95.70): VF061401.D (-1073) (-)

Ion 174.00 (173.70 to 174.70): VF061401.D (-1073) (-)

Ion 176.00 (175.70 to 176.70): VF061401.D (-1073) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.02 min

Lab File: VF061401.D

Acq: 14 Jan 2019 20:54

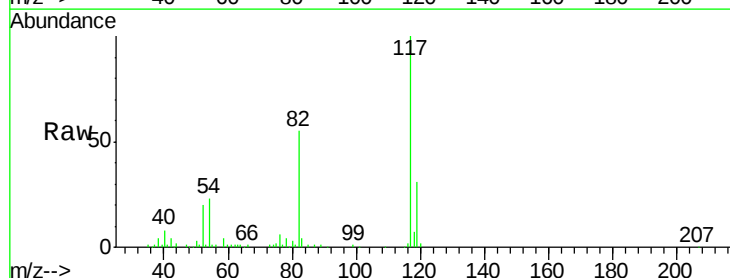
Tgt Ion: 117 Resp: 122852

Ion Ratio Lower Upper

117 100

82 55.5 45.3 67.9

119 31.3 25.4 38.0

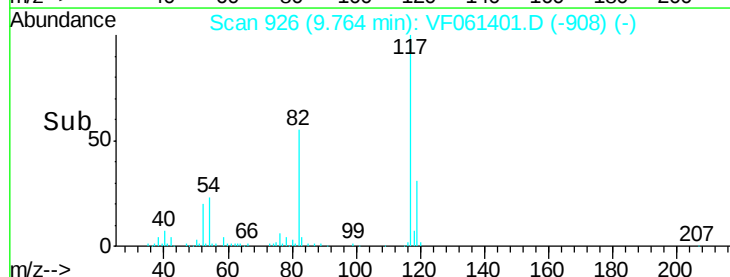


Abundance Ion 117.00 (116.70 to 117.70): VF061287.D (-921) (-)

Ion 82.00 (81.70 to 82.70): VF061287.D (-921) (-)

Ion 119.00 (118.70 to 119.70): VF061287.D (-921) (-)

Time-->



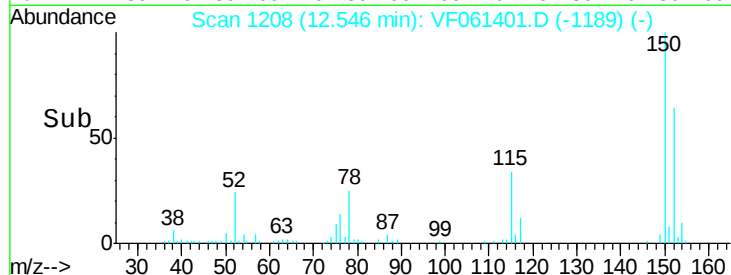
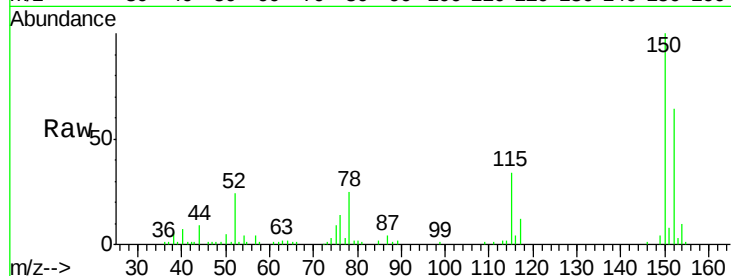
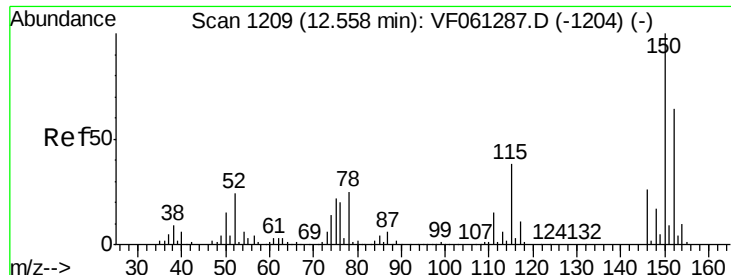
Abundance

Ion 117.00 (116.70 to 117.70): VF061401.D (-908) (-)

Ion 82.00 (81.70 to 82.70): VF061401.D (-908) (-)

Ion 119.00 (118.70 to 119.70): VF061401.D (-908) (-)

Time-->



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.55 min Scan# 1208  
 Delta R.T. -0.01 min  
 Lab File: VF061401.D  
 Acq: 14 Jan 2019 20:54

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.1  | 29.6  | 88.9  |
| 150     | 156.3 | 0.0   | 315.4 |

