

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF010219\  
 Data File : VF061260.D  
 Acq On : 2 Jan 2019 18:01  
 Operator : VA/AP  
 Sample : K1019-07  
 Misc : 4.42g/5mL/MSVOA-F/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TEST-PIT-D13

Quant Time: Jan 03 03:50:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 00:56:59 2018  
 Response via : Initial Calibration

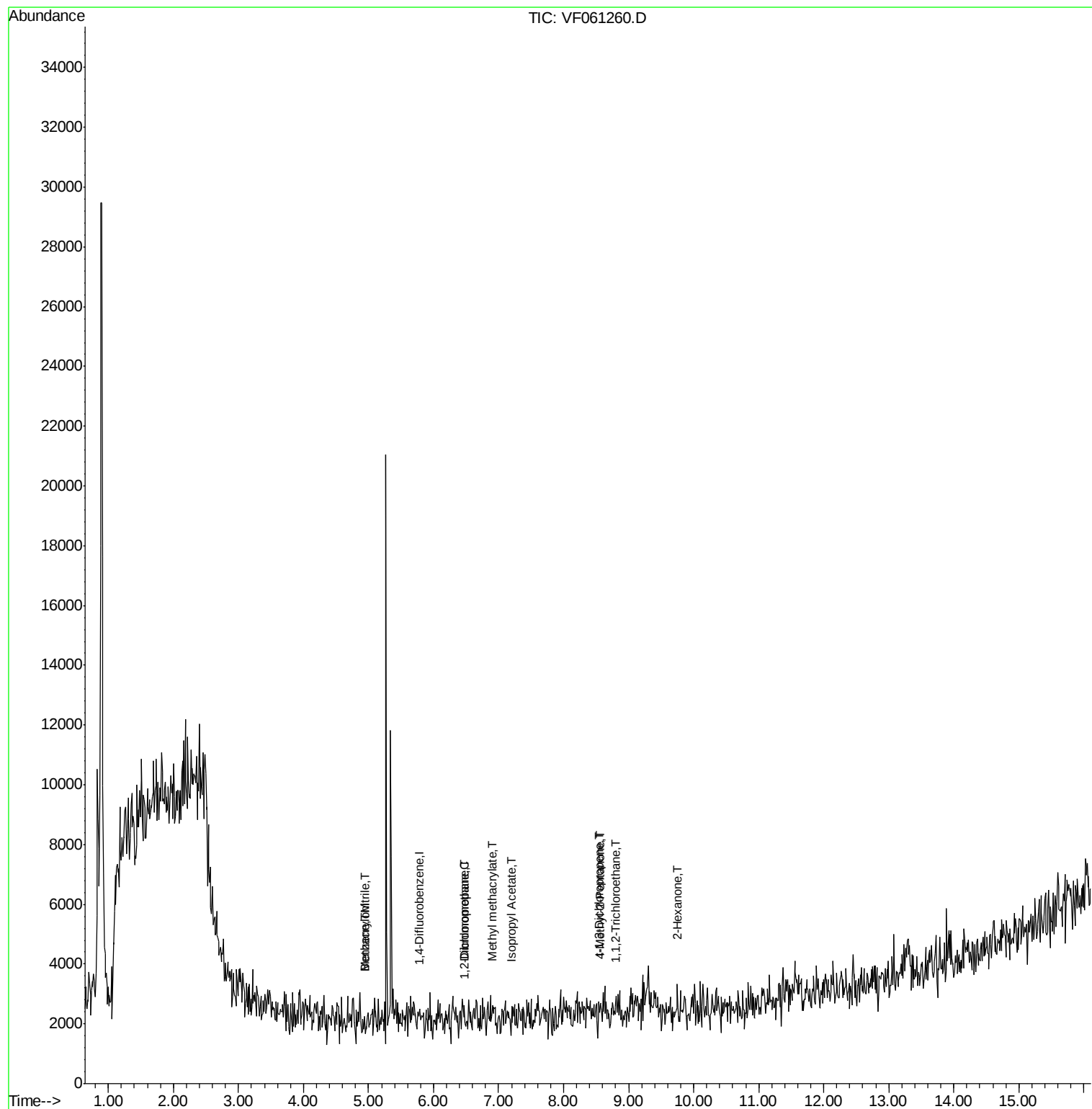
| Internal Standards          | R.T. | QIon | Response | Conc      | Units  | Dev(Min) |
|-----------------------------|------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene       | 0.00 | 168  | 0        | 0.00      | ug/l   | -4.87    |
| 34) 1,4-Difluorobenzene     | 5.79 | 114  | 69       | 50.00     | ug/l   | 0.20     |
| 63) Chlorobenzene-d5        | 0.00 | 117  | 0        | 0.00      | ug/l   | -9.78    |
| 72) 1,4-Dichlorobenzene-d4  | 0.00 | 152  | 0        | 0.00      | ug/l   | -12.55   |
| System Monitoring Compounds |      |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.83 | 65   | 82       | 0.00      | ug/l   | 0.00     |
| Spiked Amount 50.000        |      |      | Recovery | =         | 0.00%  |          |
| 35) Dibromofluoromethane    | 0.00 | 113  | 0        | 0.00      | ug/l   |          |
| Spiked Amount 50.000        |      |      | Recovery | =         | 0.00%  |          |
| 50) Toluene-d8              | 0.00 | 98   | 0        | 0.00      | ug/l   |          |
| Spiked Amount 50.000        |      |      | Recovery | =         | 0.00%  |          |
| 62) 4-Bromofluorobenzene    | 0.00 | 95   | 0        | 0.00      | ug/l   |          |
| Spiked Amount 50.000        |      |      | Recovery | =         | 0.00%  |          |
| Target Compounds            |      |      |          |           |        |          |
| 37) Ethyl Acetate           | 4.23 | 43   | 483      | Below Cal | #      | 21       |
| 40) Benzene                 | 4.93 | 78   | 71       | 39.640    | ug/l # | 49       |
| 41) Methacrylonitrile       | 4.93 | 41   | 172      | 977.855   | ug/l # | 27       |
| 43) Isopropyl Acetate       | 7.20 | 43   | 207      | 514.727   | ug/l # | 45       |
| 45) 1,2-Dichloropropane     | 6.49 | 63   | 76       | 155.961   | ug/l # | 44       |
| 46) Dibromomethane          | 6.46 | 93   | 120      | 379.679   | ug/l # | 5        |
| 48) Methyl methacrylate     | 6.92 | 41   | 90       | 320.573   | ug/l # | 19       |
| 51) 4-Methyl-2-Pentanone    | 8.56 | 43   | 511      | 1852.745  | ug/l # | 38       |
| 53) t-1,3-Dichloropropene   | 8.53 | 75   | 62       | 93.589    | ug/l # | 42       |
| 55) 1,1,2-Trichloroethane   | 8.79 | 97   | 69       | 194.131   | ug/l # | 12       |
| 59) 2-Hexanone              | 9.75 | 43   | 398      | 1995.416  | ug/l   | 86       |

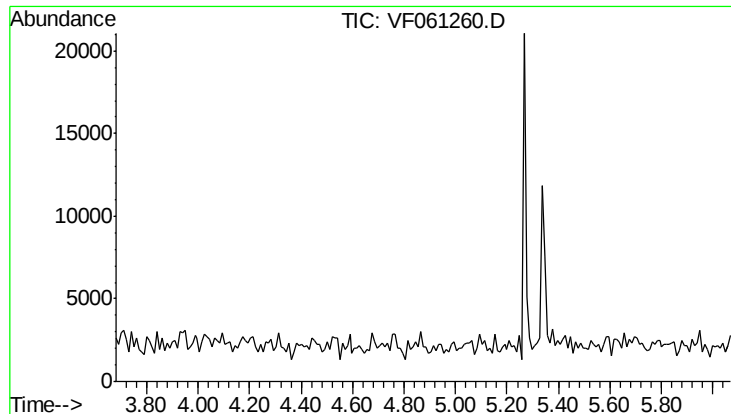
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 20 00:56:59 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.87 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

Tgt Ion: 168

Sig Exp Ratio

168 100

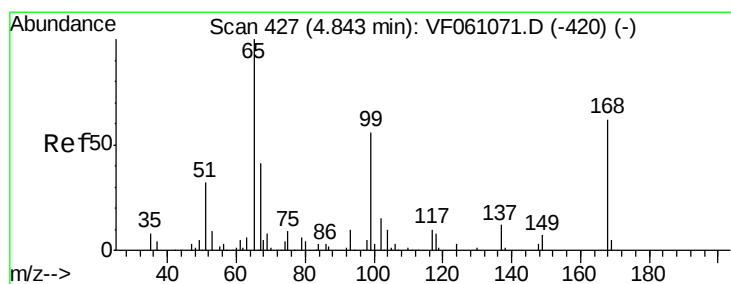
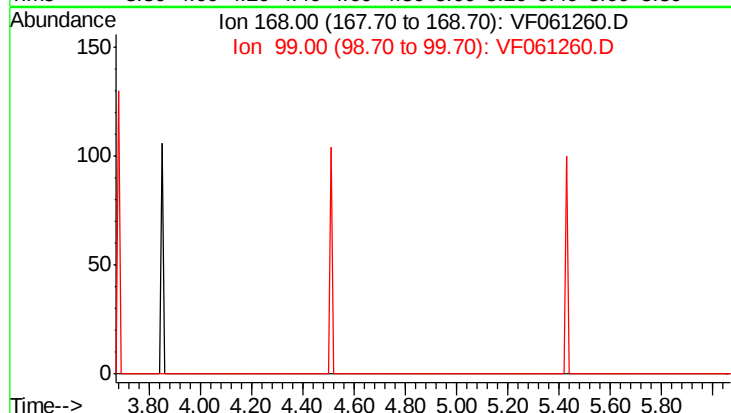
99 68.0

Instrument :

MSVOA\_F

ClientSampleId :

TEST-PIT-D13



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061260.D

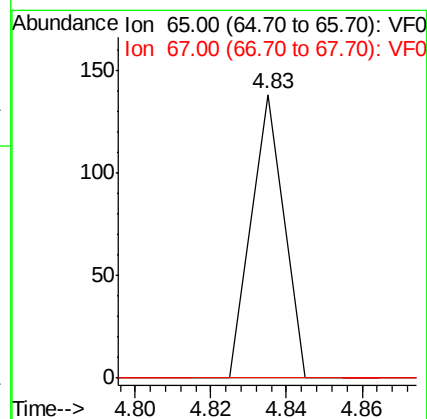
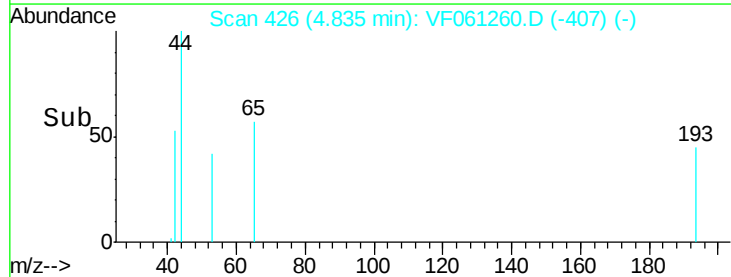
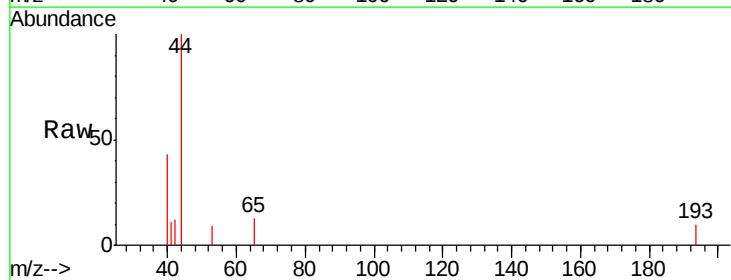
Acq: 2 Jan 2019 18:01

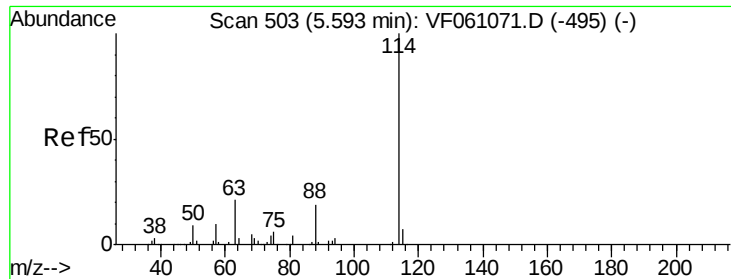
Tgt Ion: 65 Resp: 82

Ion Ratio Lower Upper

65 100

67 0.0 0.0 94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 523

Delta R.T. 0.20 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

Instrument :

MSVOA\_F

ClientSampleId :

TEST-PIT-D13

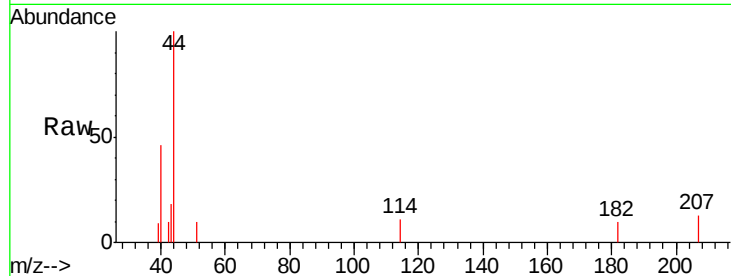
Tgt Ion: 114 Resp: 69

Ion Ratio Lower Upper

114 100

63 0.0 0.0 41.6

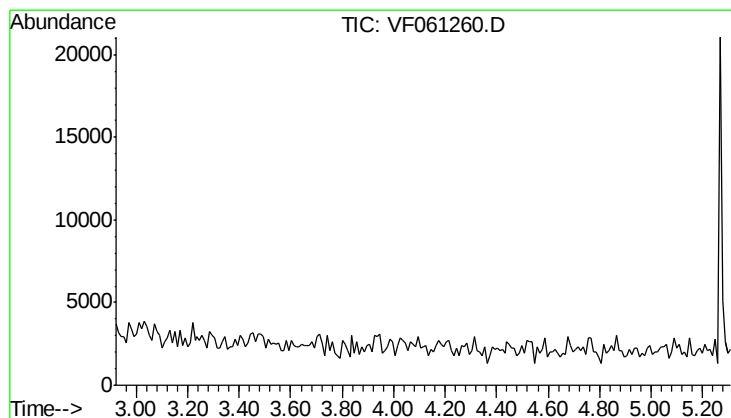
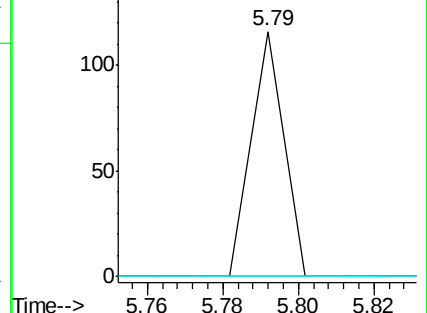
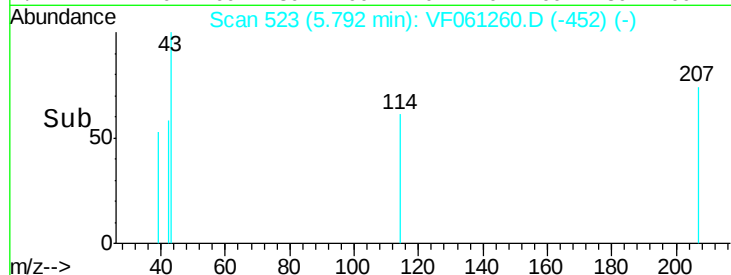
88 0.0 0.0 38.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.11 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

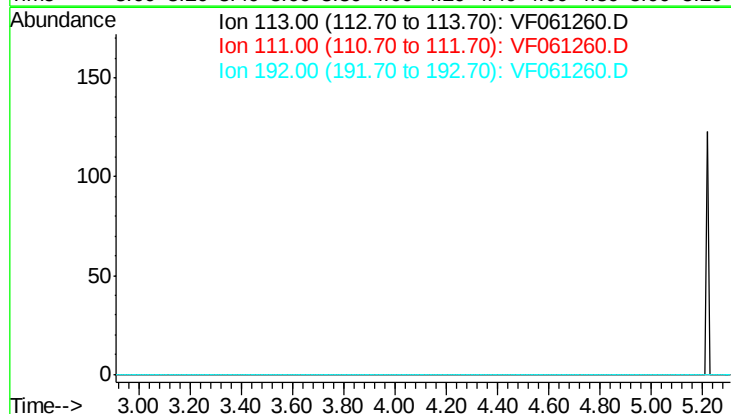
Tgt Ion: 113

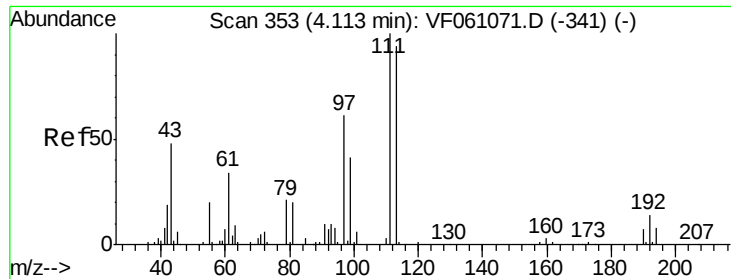
Sig Exp Ratio

113 100

111 106.5

192 16.0

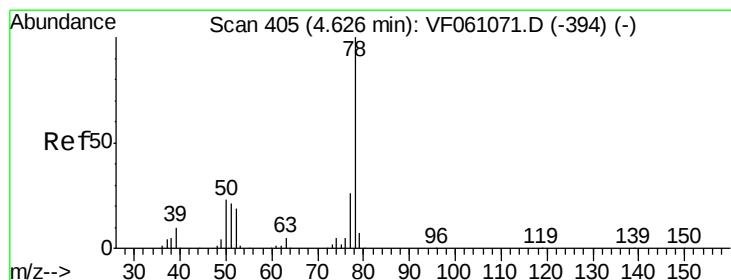
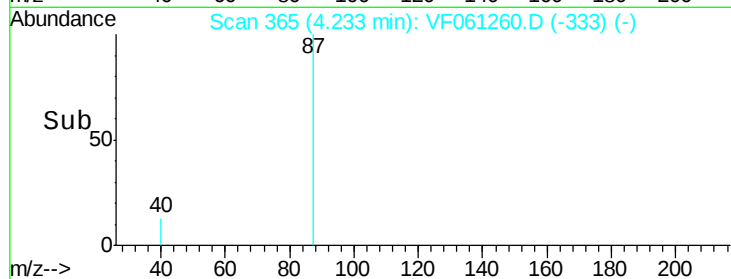
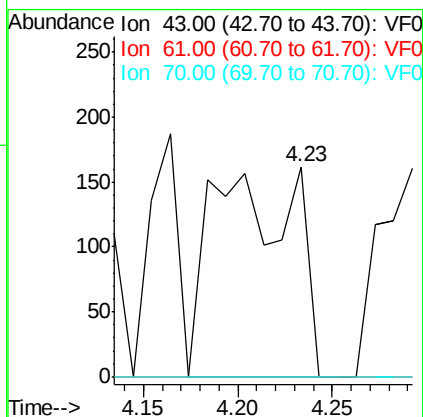
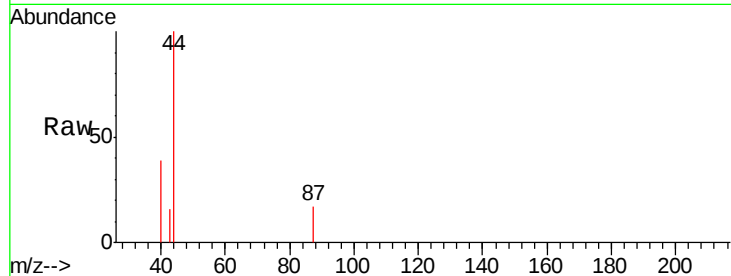




#37  
 Ethyl Acetate  
 Concen: Below Cal  
 RT: 4.23 min Scan# 365  
 Delta R.T. 0.12 min  
 Lab File: VF061260.D  
 Acq: 2 Jan 2019 18:01

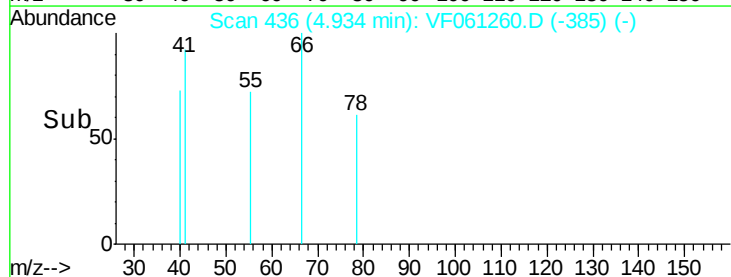
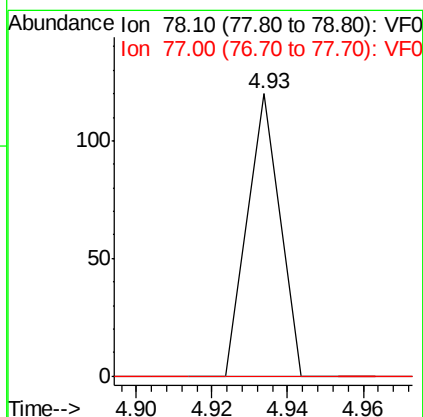
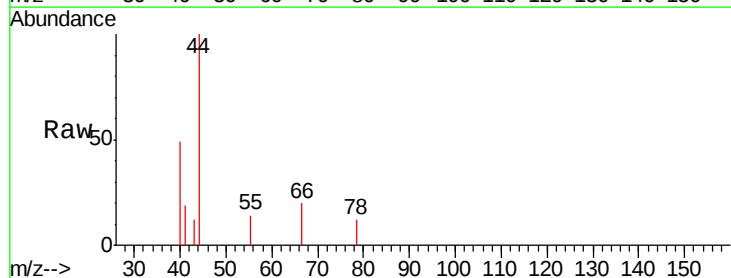
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TEST-PIT-D13

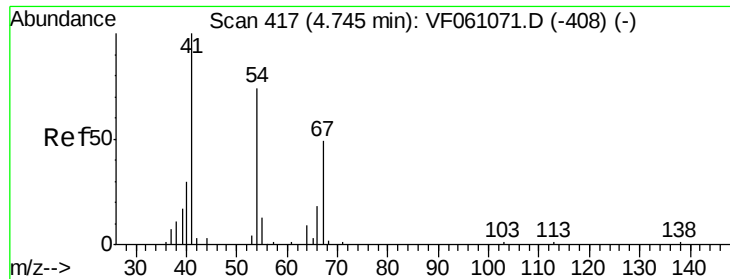
Tgt Ion: 43 Resp: 483  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 56.6 84.8#  
 70 0.0 6.3 9.5#



#40  
 Benzene  
 Concen: 39.640 ug/l  
 RT: 4.93 min Scan# 436  
 Delta R.T. 0.31 min  
 Lab File: VF061260.D  
 Acq: 2 Jan 2019 18:01

Tgt Ion: 78 Resp: 71  
 Ion Ratio Lower Upper  
 78 100  
 77 0.0 20.7 31.1#

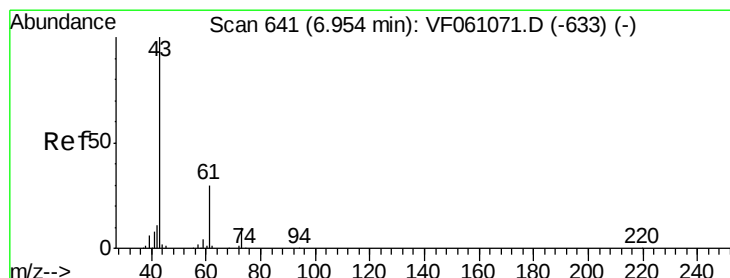
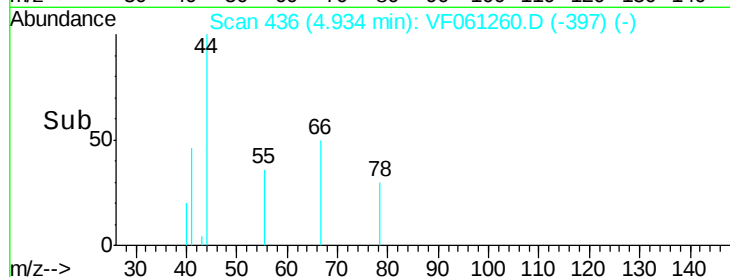
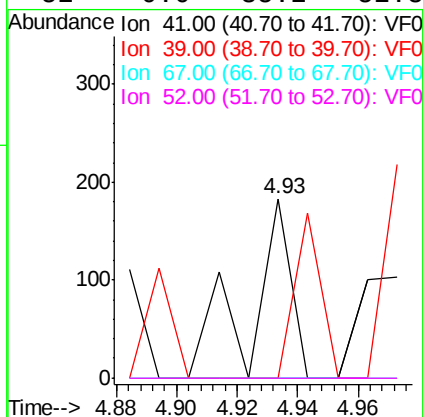
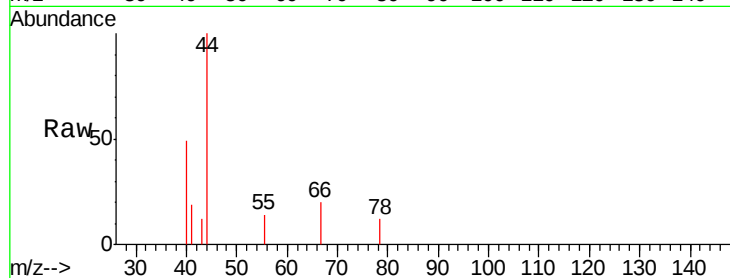




#41  
Methacrylonitrile  
Concen: 977.855 ug/l  
RT: 4.93 min Scan# 436  
Delta R.T. 0.19 min  
Lab File: VF061260.D  
Acq: 2 Jan 2019 18:01

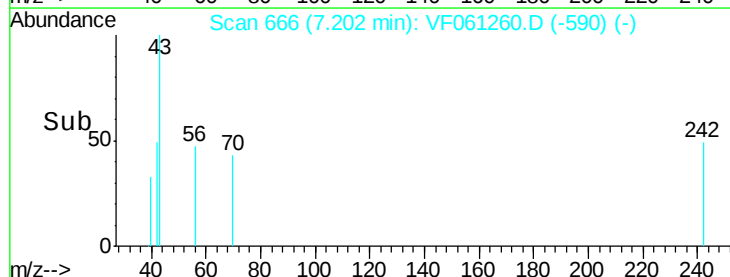
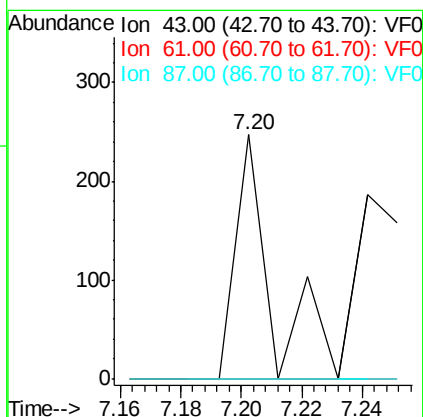
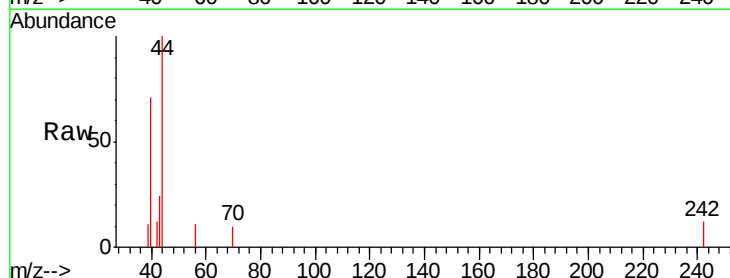
Instrument :  
MSVOA\_F  
ClientSampleId :  
TEST-PIT-D13

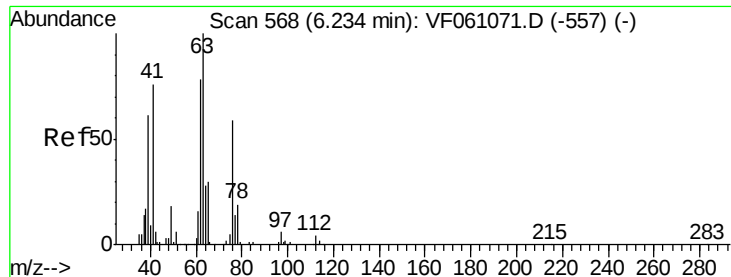
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 172   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 45.7  | 68.5# |
| 67       | 0.0   | 38.9  | 58.3# |
| 52       | 0.0   | 35.2  | 52.8# |



#43  
Isopropyl Acetate  
Concen: 514.727 ug/l  
RT: 7.20 min Scan# 666  
Delta R.T. 0.25 min  
Lab File: VF061260.D  
Acq: 2 Jan 2019 18:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 207   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 23.8  | 35.8# |
| 87       | 0.0   | 0.0   | 0.0   |





#45

1,2-Dichloropropane

Concen: 155.961 ug/l

RT: 6.49 min Scan# 594

Delta R.T. 0.26 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

Instrument :

MSVOA\_F

ClientSampleId :

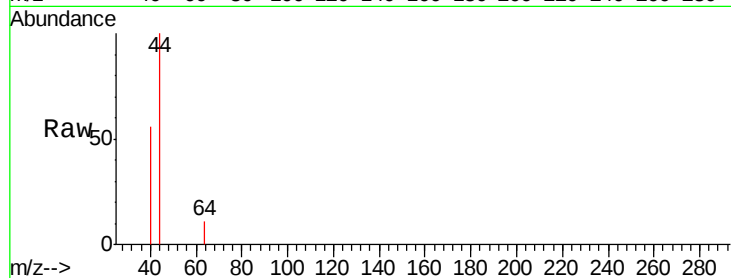
TEST-PIT-D13

Tgt Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.49

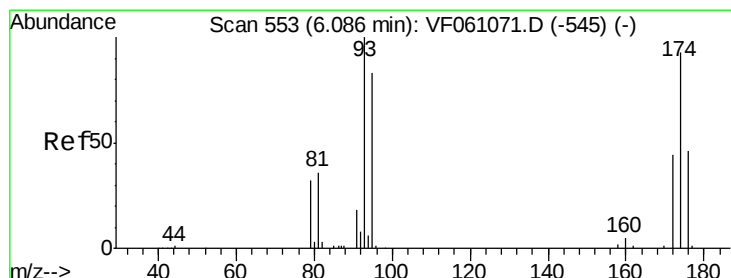
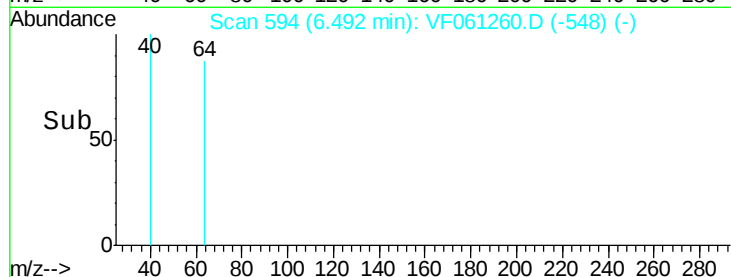
150

100

50

0

Time-->



#46

Dibromomethane

Concen: 379.679 ug/l

RT: 6.46 min Scan# 591

Delta R.T. 0.38 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

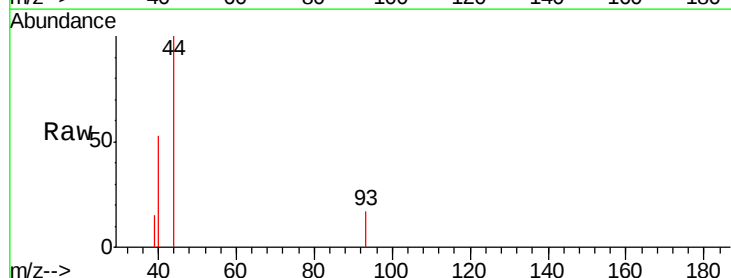
Tgt Ion: 93 Resp: 120

Ion Ratio Lower Upper

93 100

95 0.0 66.9 100.3#

174 0.0 74.1 111.1#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

250

200

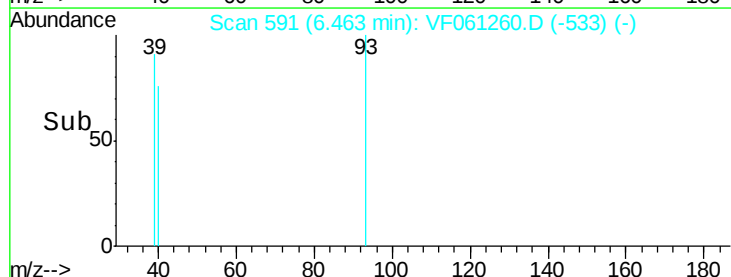
150

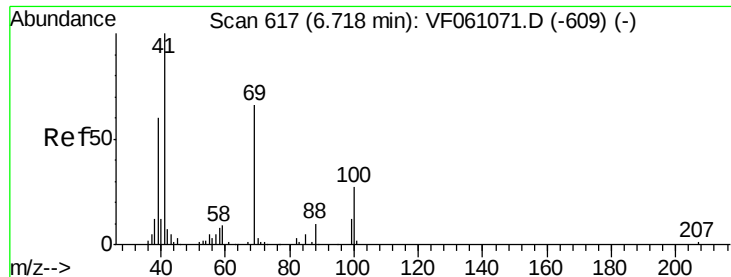
100

50

0

Time-->

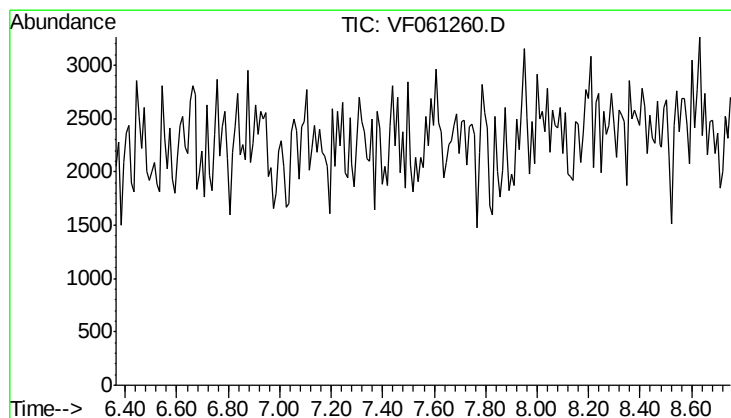
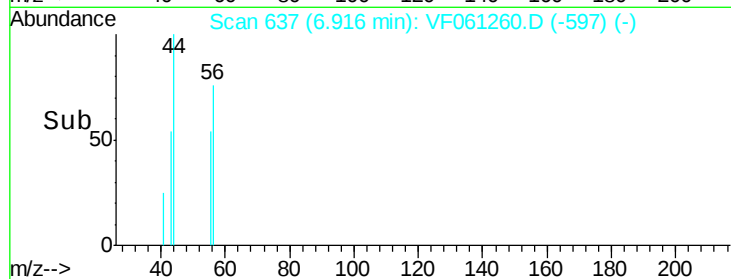
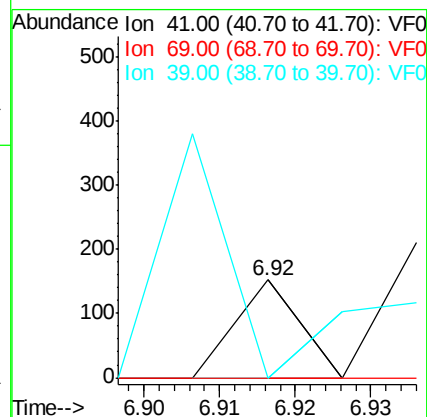
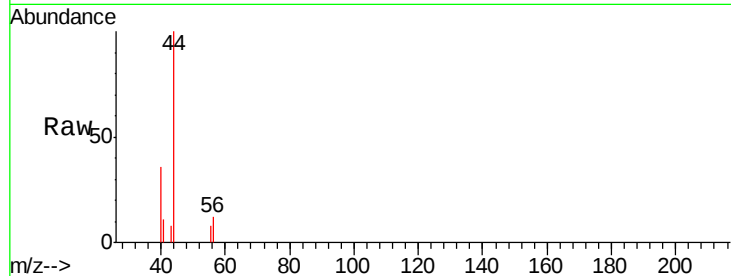




#48  
Methyl methacrylate  
Concen: 320.573 ug/l  
RT: 6.92 min Scan# 637  
Delta R.T. 0.20 min  
Lab File: VF061260.D  
Acq: 2 Jan 2019 18:01

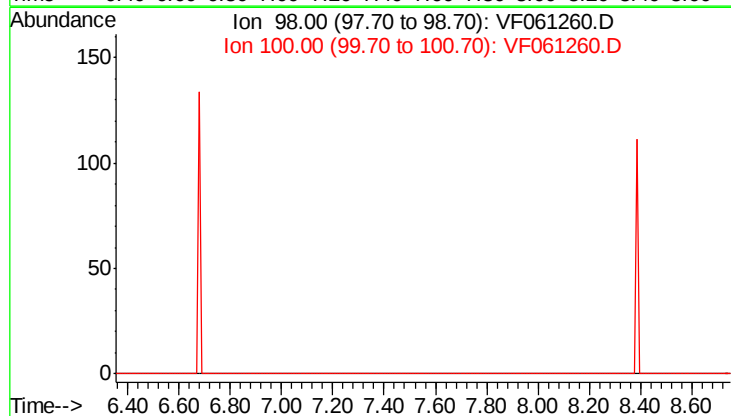
Instrument :  
MSVOA\_F  
ClientSampleId :  
TEST-PIT-D13

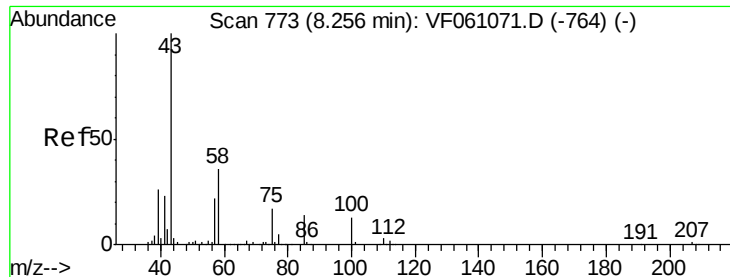
Tgt Ion: 41 Resp: 90  
Ion Ratio Lower Upper  
41 100  
69 0.0 52.7 79.1#  
39 0.0 47.8 71.6#



#50  
Toluene-d8  
Concen: 0.000 ug/l  
Expected RT: 7.56 min  
Lab File: VF061260.D  
Acq: 2 Jan 2019 18:01

Tgt Ion: 98  
Sig Exp Ratio  
98 100  
100 69.1





#51

4-Methyl-2-Pentanone

Concen: 1852.745 ug/l

RT: 8.56 min Scan# 804

Delta R.T. 0.31 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

Instrument :

MSVOA\_F

ClientSampleId :

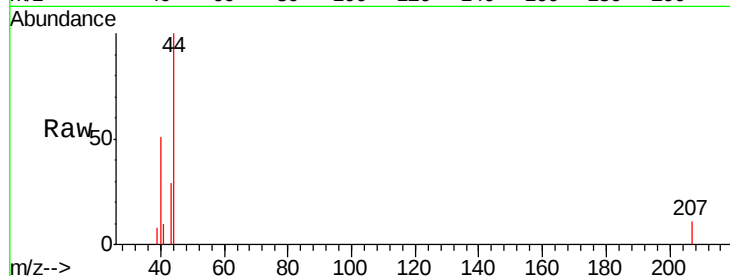
TEST-PIT-D13

Tgt Ion: 43 Resp: 511

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.56

400

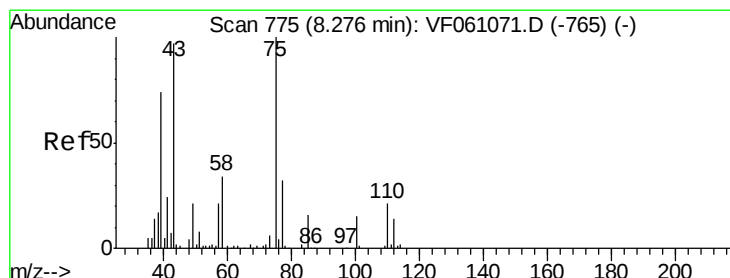
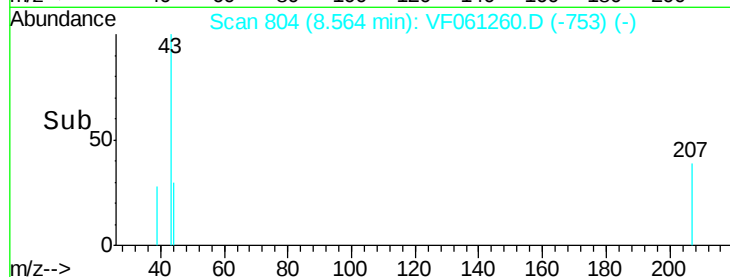
300

200

100

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 93.589 ug/l

RT: 8.53 min Scan# 801

Delta R.T. 0.26 min

Lab File: VF061260.D

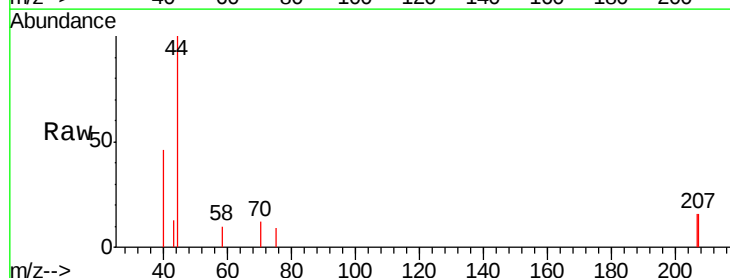
Acq: 2 Jan 2019 18:01

Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

120

100

80

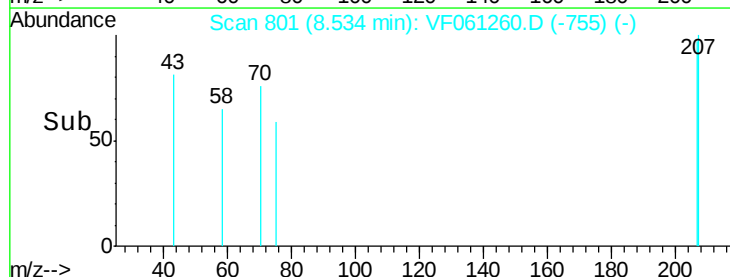
60

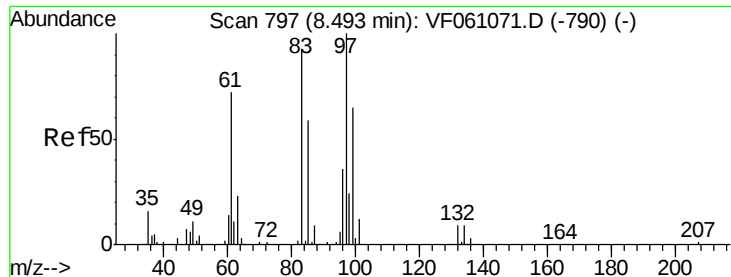
40

20

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 194.131 ug/l

RT: 8.79 min Scan# 827

Delta R.T. 0.30 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

Instrument :

MSVOA\_F

ClientSampleId :

TEST-PIT-D13

Tgt Ion: 97 Resp: 69

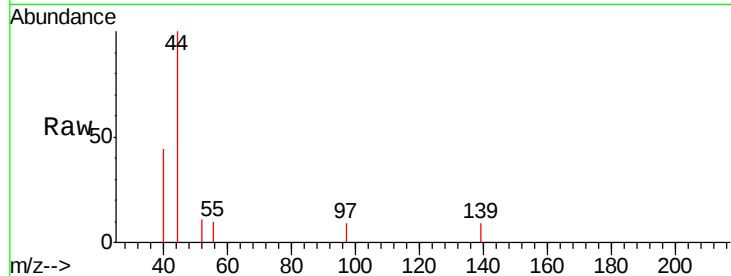
Ion Ratio Lower Upper

97 100

83 0.0 75.0 112.4#

85 0.0 47.5 71.3#

99 0.0 51.9 77.9#

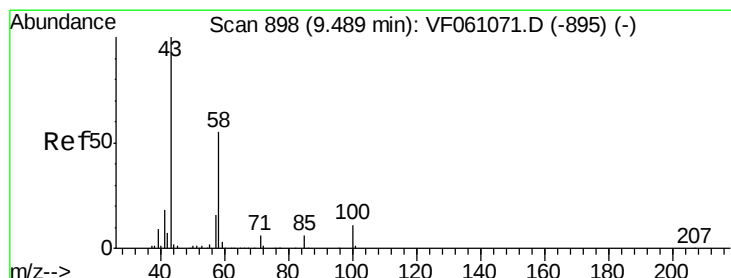
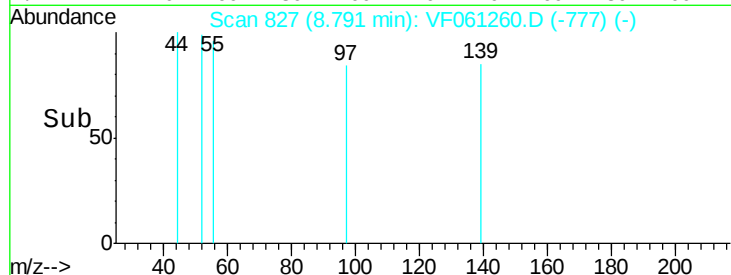
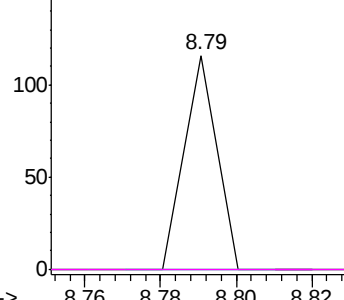


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#59

2-Hexanone

Concen: 1995.416 ug/l

RT: 9.75 min Scan# 924

Delta R.T. 0.26 min

Lab File: VF061260.D

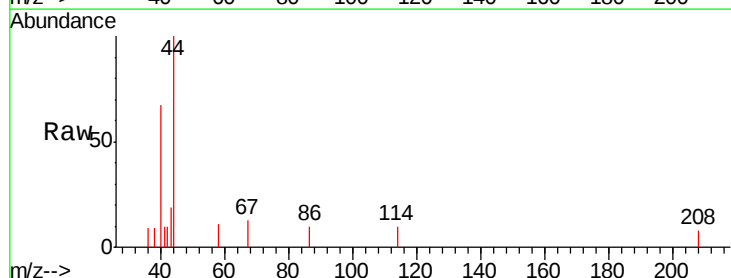
Acq: 2 Jan 2019 18:01

Tgt Ion: 43 Resp: 398

Ion Ratio Lower Upper

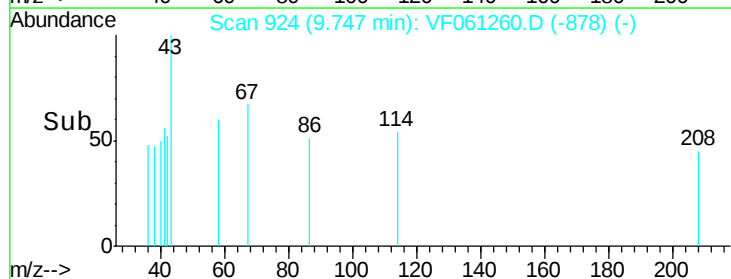
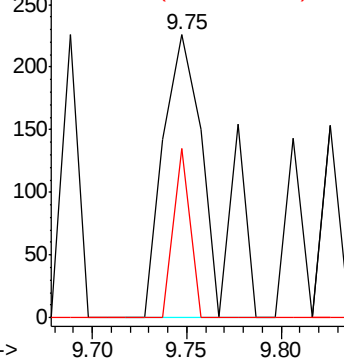
43 100

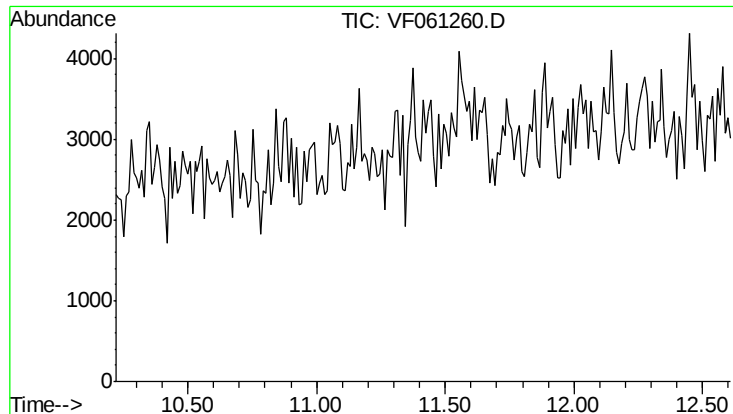
58 59.7 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 11.41 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

Tgt Ion: 95

Sig Exp Ratio

95 100

174 71.9

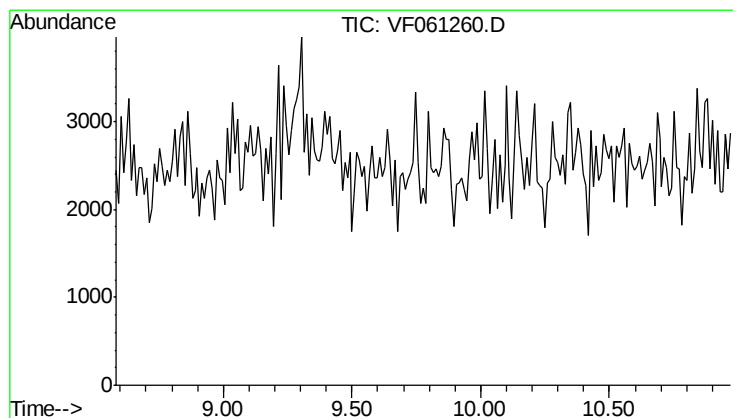
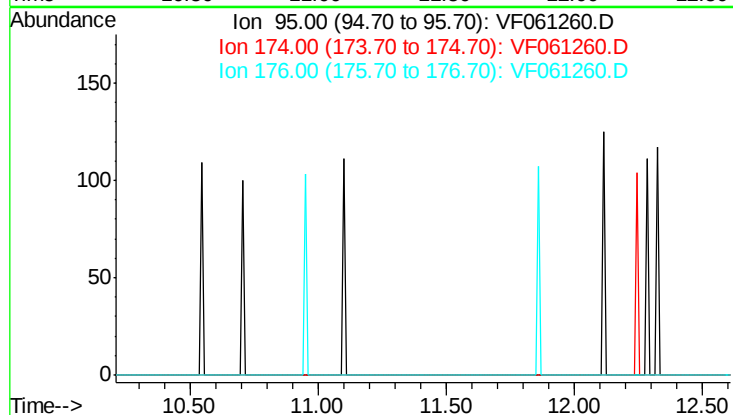
176 73.8

Instrument :

MSVOA\_F

ClientSampleId :

TEST-PIT-D13



#63

Chlorobenzene-d5

Concen: 0.000 ug/l

Expected RT: 9.78 min

Lab File: VF061260.D

Acq: 2 Jan 2019 18:01

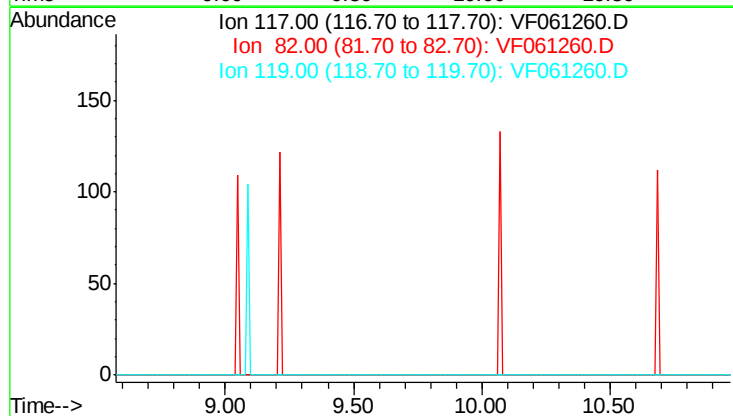
Tgt Ion: 117

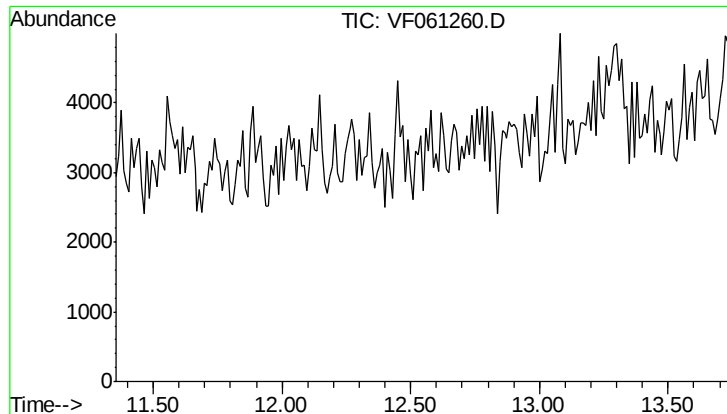
Sig Exp Ratio

117 100

82 56.2

119 31.0





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 0.000 ug/l  
 Expected RT: 12.55 min  
 Lab File: VF061260.D  
 Acq: 2 Jan 2019 18:01

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TEST-PIT-D13

| Tgt | Ion   |
|-----|-------|
| 152 | 100   |
| 115 | 66.6  |
| 150 | 164.1 |

