

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF122118\  
 Data File : VF061130.D  
 Acq On : 21 Dec 2018 17:12  
 Operator : VA/AP  
 Sample : J6377-01RE  
 Misc : 3.17g/5mL/MSVOA-F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SD006-0006-02RE

Manual Integrations  
 APPROVED

MMDadoda  
 12/26/2018 10:51:24 AM

Quant Time: Dec 21 23:57:42 2018  
 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       | 4.90  | 168  | 158335   | 50.00  | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene     | 5.63  | 114  | 275599   | 50.00  | ug/l   | 0.03     |
| 63) Chlorobenzene-d5        | 9.81  | 117  | 170893   | 50.00  | ug/l   | 0.03     |
| 72) 1,4-Dichlorobenzene-d4  | 12.58 | 152  | 44843    | 50.00  | ug/l   | 0.03     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.89  | 65   | 80748    | 39.65  | ug/l   | 0.04     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 79.30% |          |
| 35) Dibromofluoromethane    | 4.15  | 113  | 87169    | 39.48  | ug/l   | 0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 78.96% |          |
| 50) Toluene-d8              | 7.59  | 98   | 172597   | 27.59  | ug/l   | 0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 55.18% |          |
| 62) 4-Bromofluorobenzene    | 11.44 | 95   | 52465    | 18.19  | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 36.38% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 2.26  | 43   | 31304m   | 76.893 | ug/l   | Qvalue   |
| 25) 2-Butanone              | 4.38  | 43   | 23986    | 36.328 | ug/l   | 98       |
| 40) Benzene                 | 4.67  | 78   | 15883    | 2.220  | ug/l   | 92       |
| 52) Toluene                 | 7.65  | 92   | 8241     | 1.740  | ug/l   | 96       |
| 68) m/p-Xylenes             | 10.17 | 106  | 3417     | 1.510  | ug/l   | 79       |
| 88) 1,4-Dichlorobenzene     | 12.59 | 146  | 7440     | 4.871  | ug/l   | 92       |

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

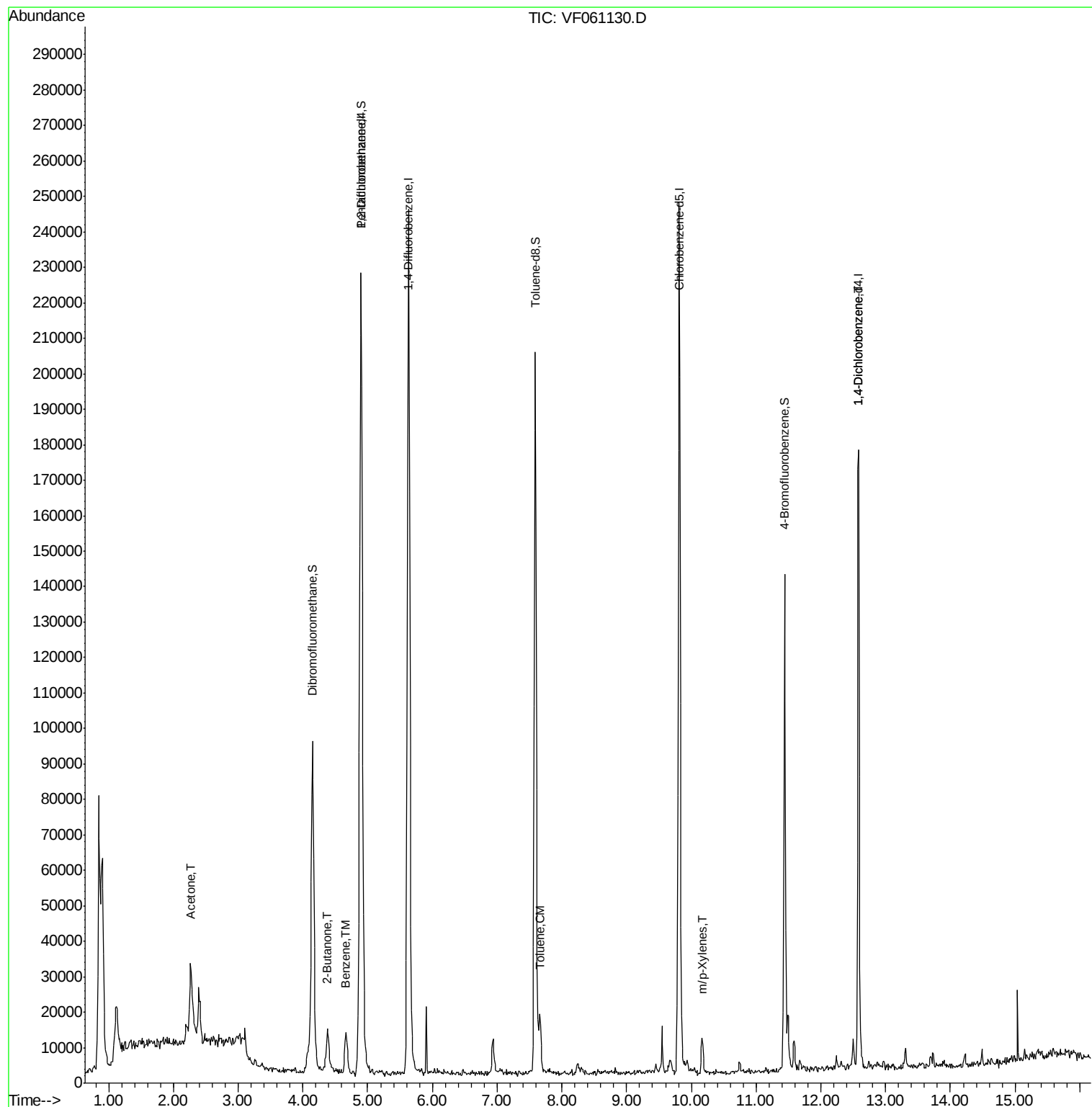
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF122118\  
Data File : VF061130.D  
Acq On : 21 Dec 2018 17:12  
Operator : VA/AP  
Sample : J6377-01RE  
Misc : 3.17g/5mL/MSVOA-F/SOIL  
ALS Vial : 14 Sample Multiplier: 1

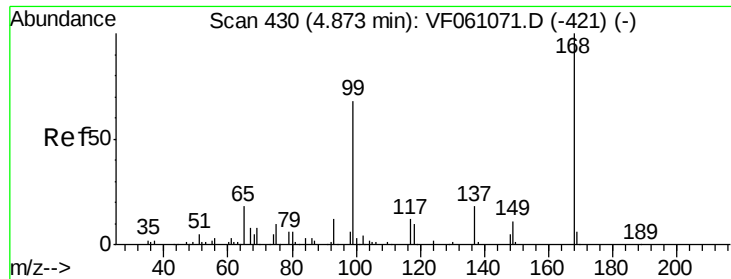
Instrument :  
MSVOA\_F  
ClientSampleId :  
P001-SD006-0006-02RE

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12/26/2018 10:51:24 AM

Quant Time: Dec 21 23:57:42 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 00:56:59 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA\_F

ClientSampleId :

P001-SD006-0006-02RE

Tgt Ion: 168 Resp: 158335

Ion Ratio Lower Upper

168 100

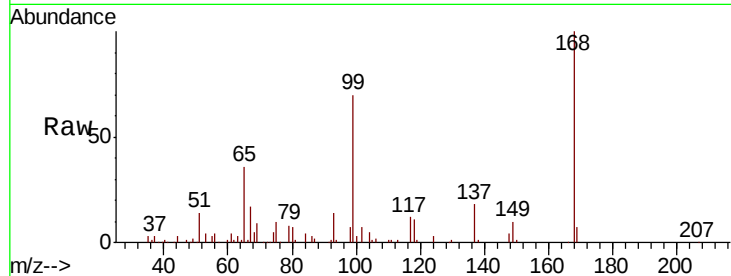
99 69.7 54.4 81.6

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

50000

40000

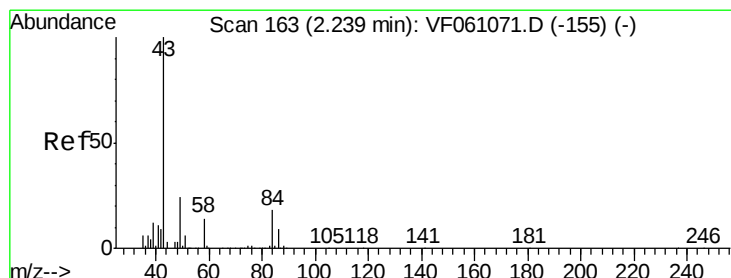
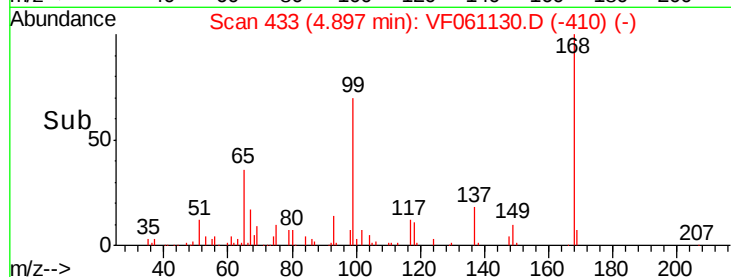
30000

20000

10000

0

Time-->



#16

Acetone

Concen: 76.893 ug/l m

RT: 2.26 min Scan# 166

Delta R.T. 0.02 min

Lab File: VF061130.D

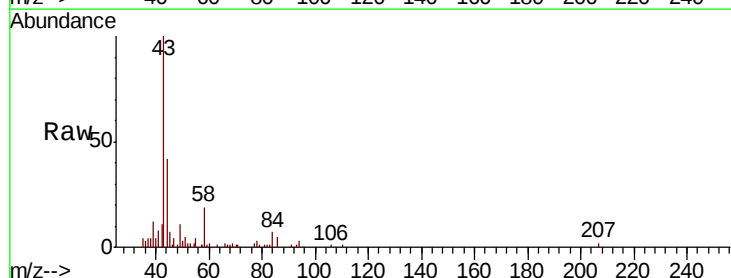
Acq: 21 Dec 2018 17:12

Tgt Ion: 43 Resp: 31304

Ion Ratio Lower Upper

43 100

58 18.5 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.26

12000

10000

8000

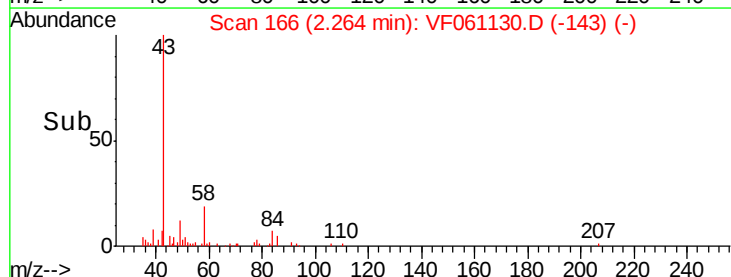
6000

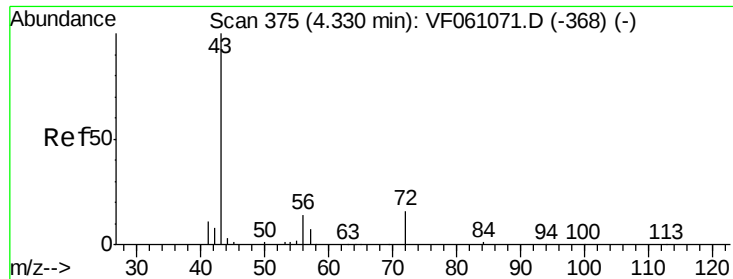
4000

2000

0

Time-->





#25

2-Butanone

Concen: 36.328 ug/l

RT: 4.38 min Scan# 381

Delta R.T. 0.05 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA\_F

ClientSampleId :

P001-SD006-0006-02RE

Tgt Ion: 43 Resp: 23986

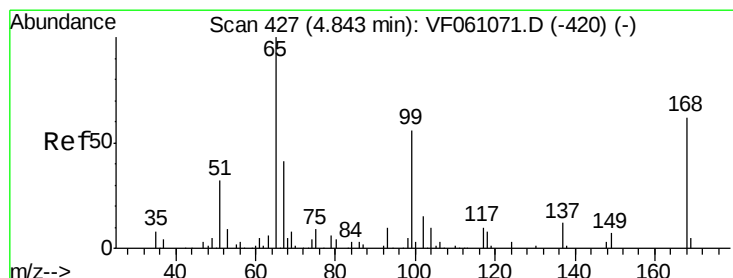
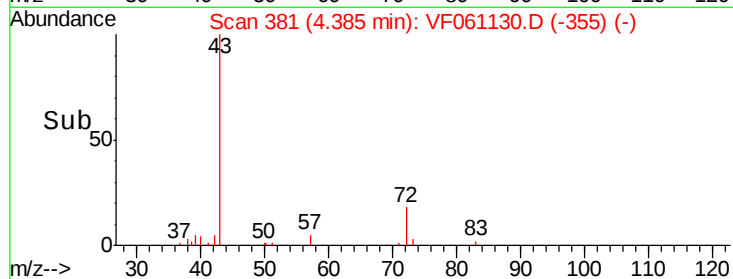
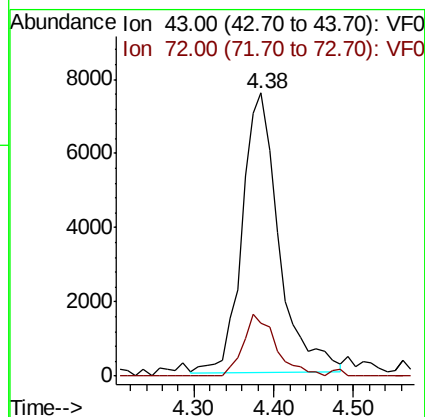
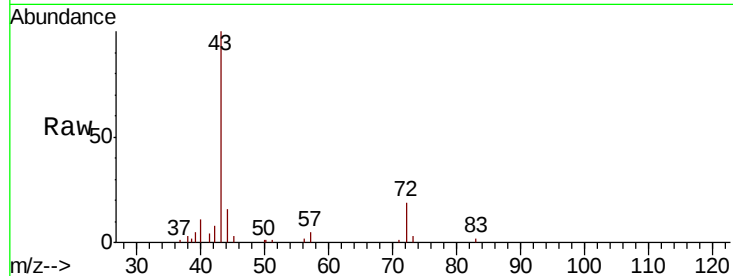
Ion Ratio Lower Upper

43 100

72 18.6 15.6 23.4

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#33

1,2-Dichloroethane-d4

Concen: 39.651 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.04 min

Lab File: VF061130.D

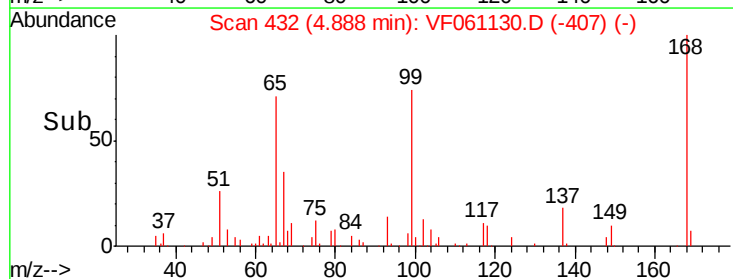
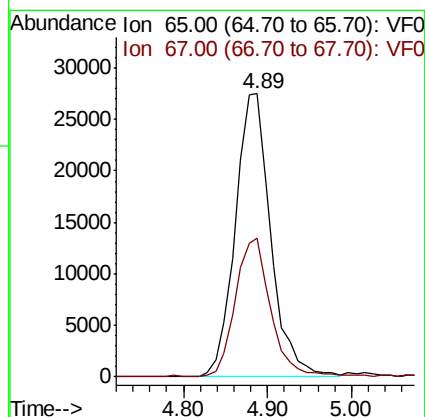
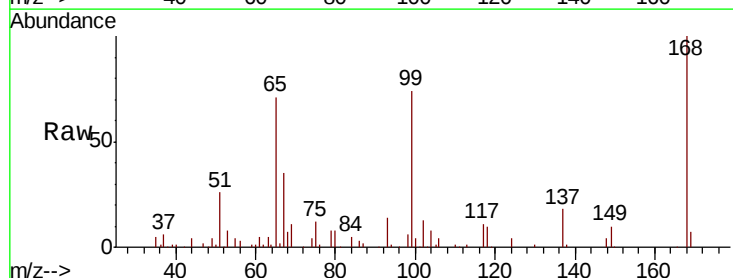
Acq: 21 Dec 2018 17:12

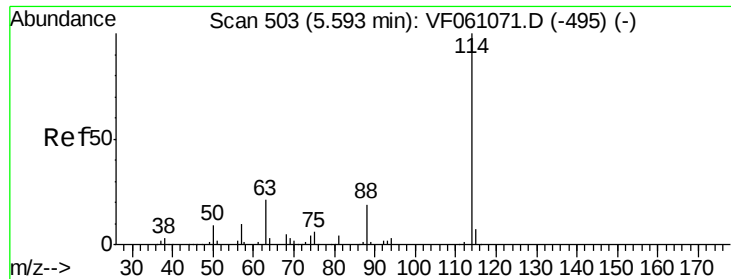
Tgt Ion: 65 Resp: 80748

Ion Ratio Lower Upper

65 100

67 49.1 0.0 94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA\_F

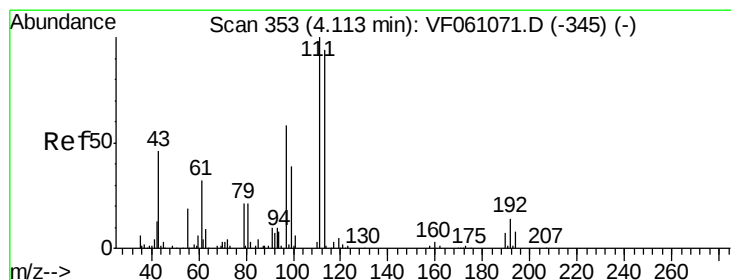
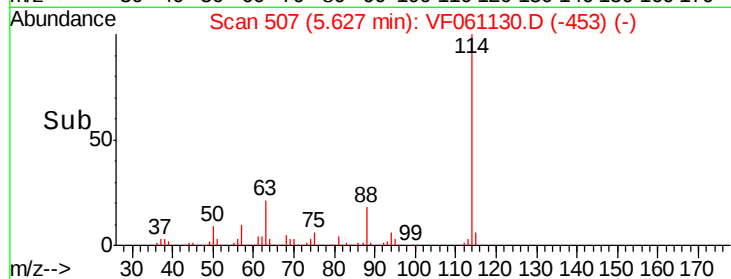
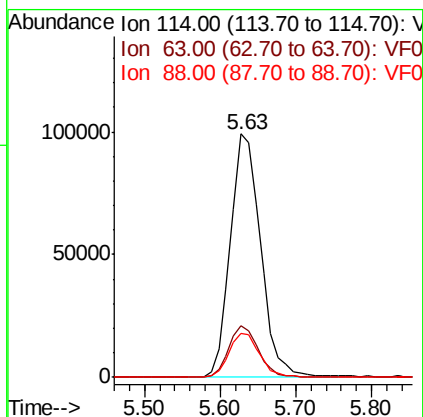
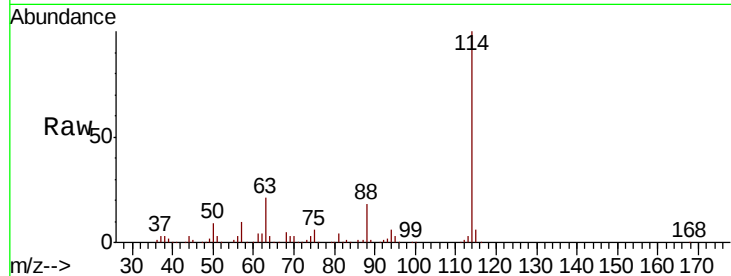
ClientSampleId :

P001-SD006-0006-02RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 275599 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 21.4  | 0.0   | 41.6   |
| 88        | 17.8  | 0.0   | 38.0   |

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#35

Dibromofluoromethane

Concen: 39.484 ug/l

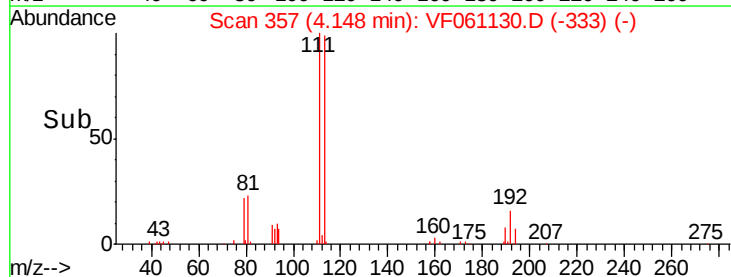
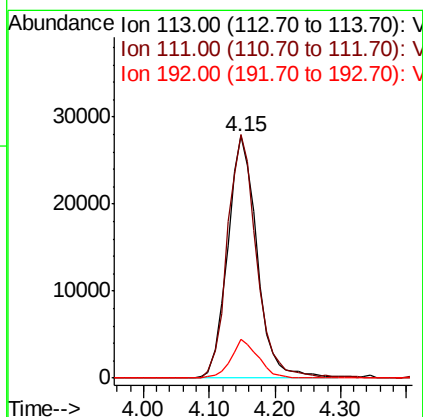
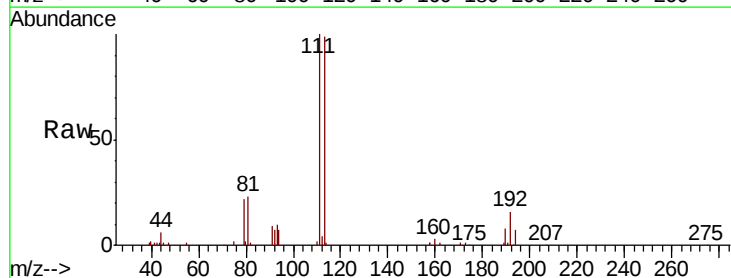
RT: 4.15 min Scan# 357

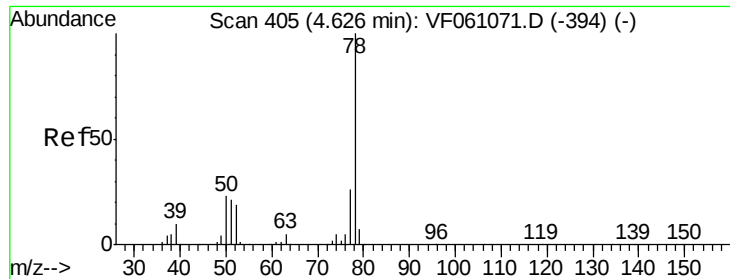
Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 87169 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 100.5 | 85.2  | 127.8 |
| 192       | 15.9  | 12.8  | 19.2  |





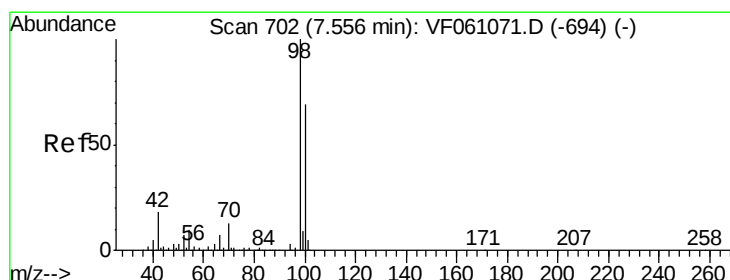
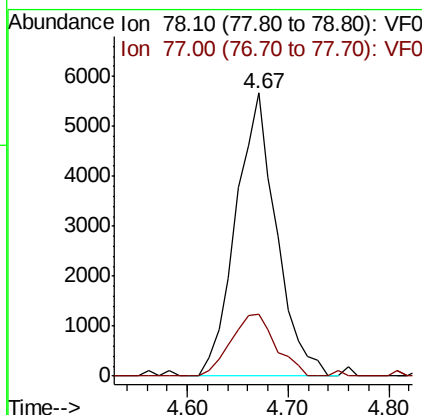
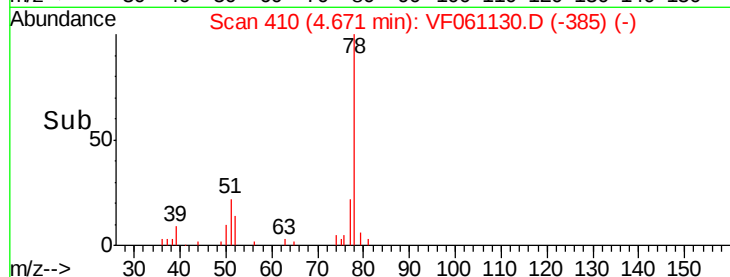
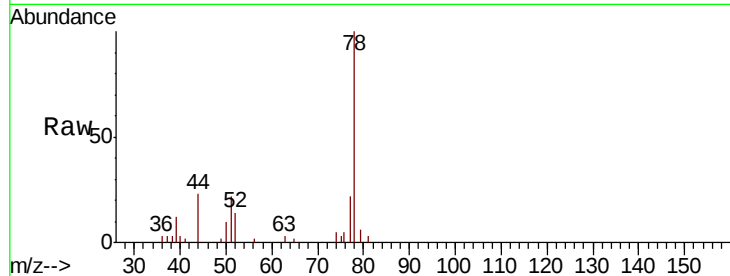
#40  
Benzene  
Concen: 2.220 ug/l  
RT: 4.67 min Scan# 410  
Delta R.T. 0.04 min  
Lab File: VF061130.D  
Acq: 21 Dec 2018 17:12

Instrument :  
MSVOA\_F  
ClientSampleId :  
P001-SD006-0006-02RE

Tgt Ion: 78 Resp: 15883  
Ion Ratio Lower Upper  
78 100  
77 21.8 20.7 31.1

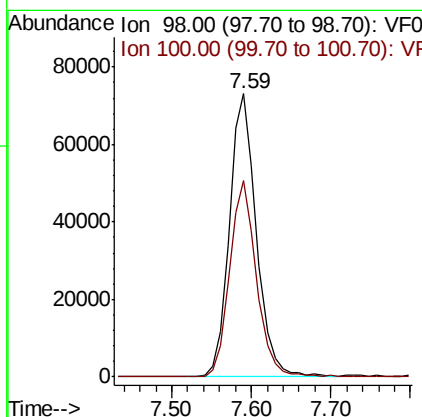
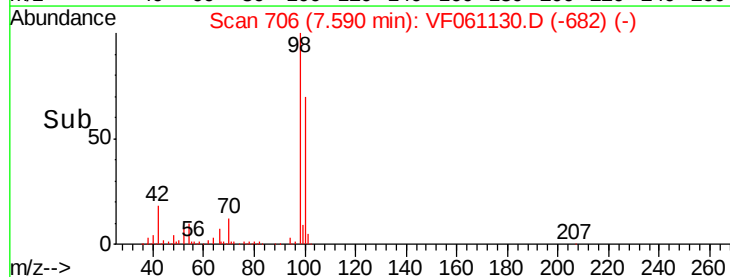
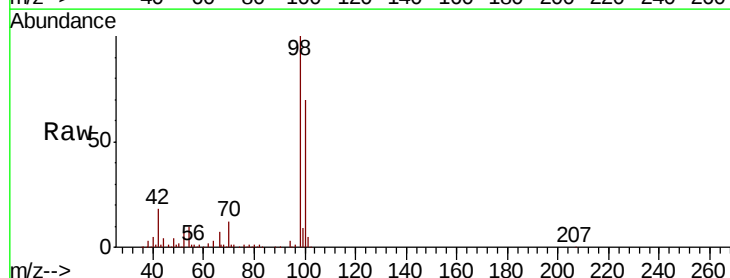
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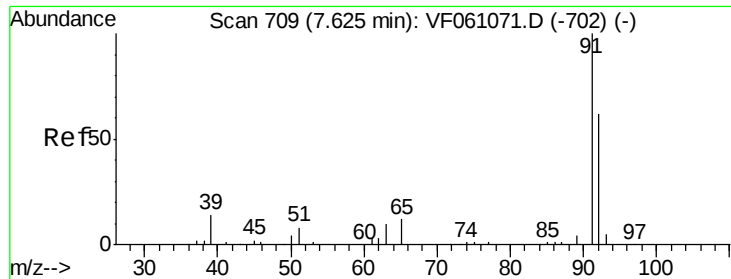
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#50  
Toluene-d8  
Concen: 27.587 ug/l  
RT: 7.59 min Scan# 706  
Delta R.T. 0.03 min  
Lab File: VF061130.D  
Acq: 21 Dec 2018 17:12

Tgt Ion: 98 Resp: 172597  
Ion Ratio Lower Upper  
98 100  
100 69.5 55.3 82.9





#52

Toluene

Concen: 1.740 ug/l

RT: 7.65 min Scan# 712

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA\_F

ClientSampleId :

P001-SD006-0006-02RE

Tgt Ion: 92 Resp: 8241

Ion Ratio Lower Upper

92 100

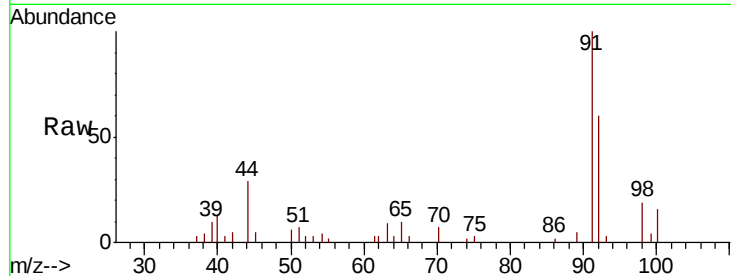
91 166.8 128.8 193.2

Manual Integrations

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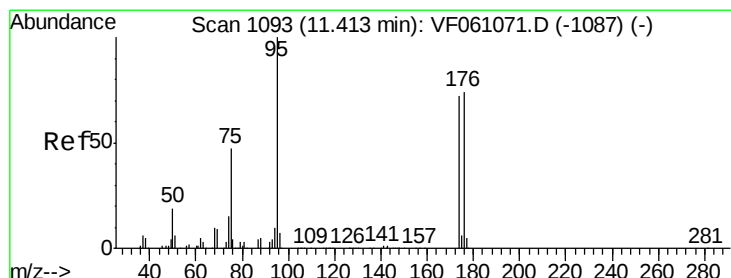
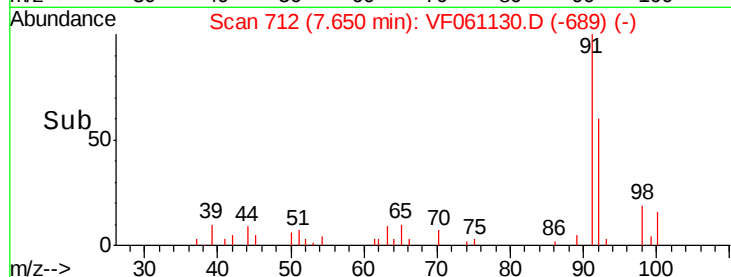
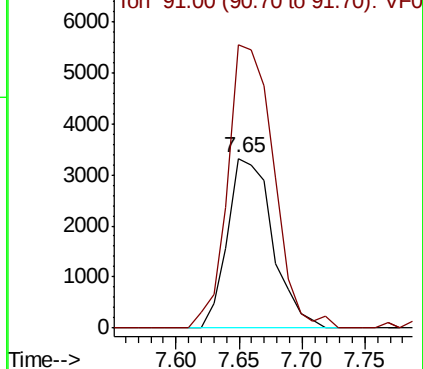
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Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#62

4-Bromofluorobenzene

Concen: 18.190 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

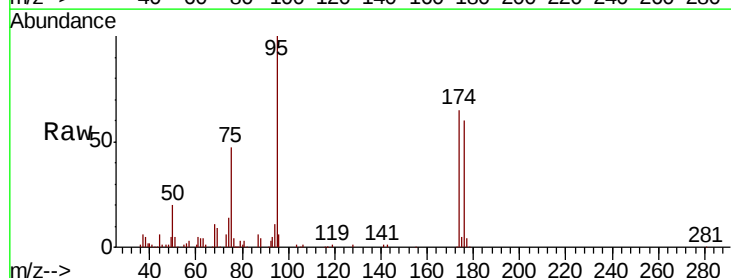
Tgt Ion: 95 Resp: 52465

Ion Ratio Lower Upper

95 100

174 65.5 0.0 143.8

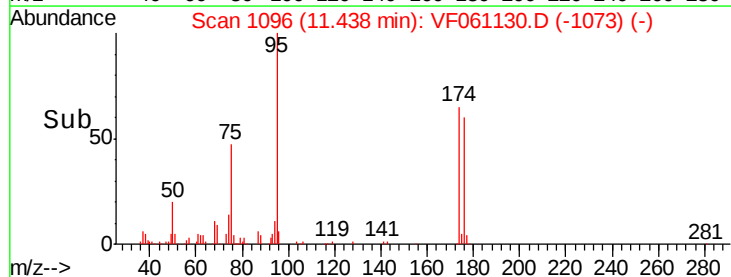
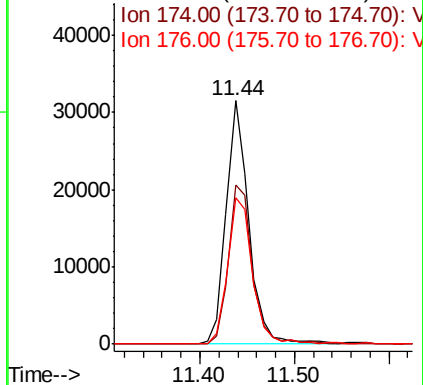
176 60.1 0.0 147.6

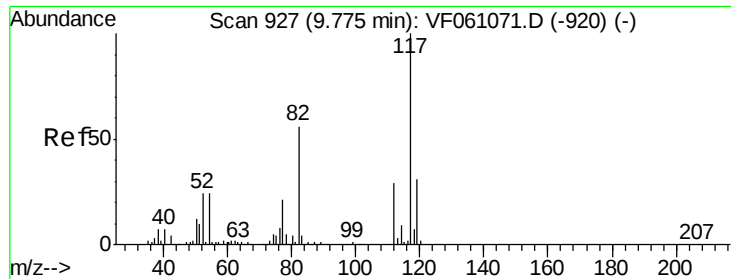


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





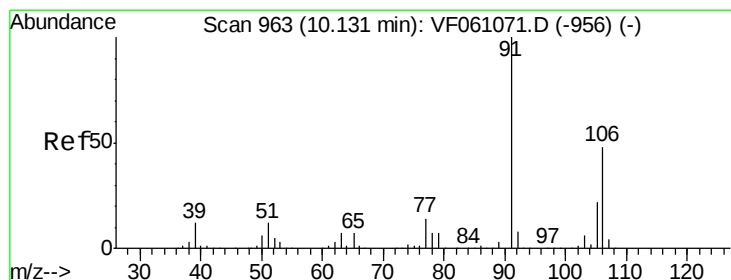
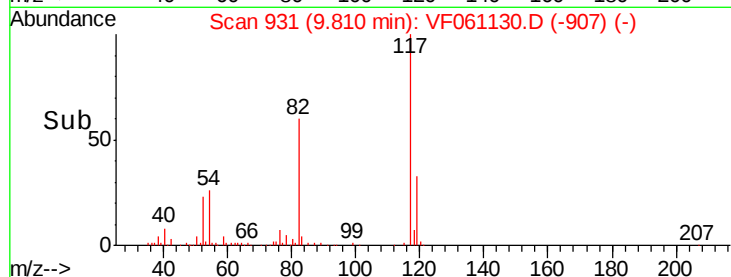
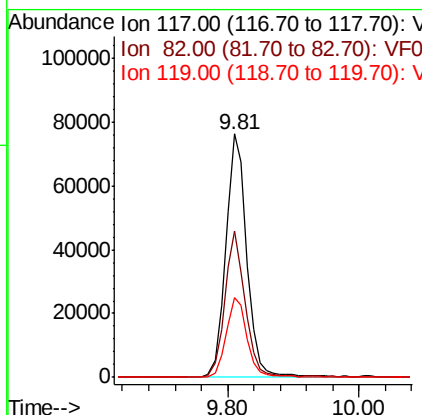
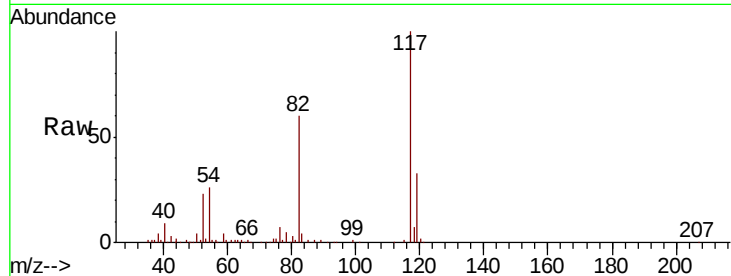
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.81 min Scan# 931  
Delta R.T. 0.03 min  
Lab File: VF061130.D  
Acq: 21 Dec 2018 17:12

Instrument :  
MSVOA\_F  
ClientSampleId :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.2  | 45.0  | 67.4  |
| 119     | 32.9  | 24.8  | 37.2  |

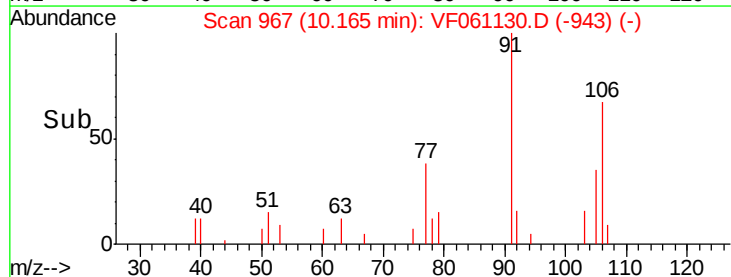
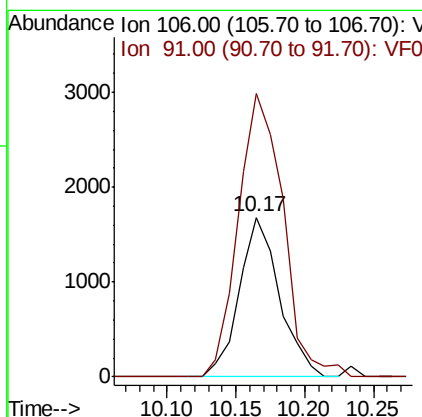
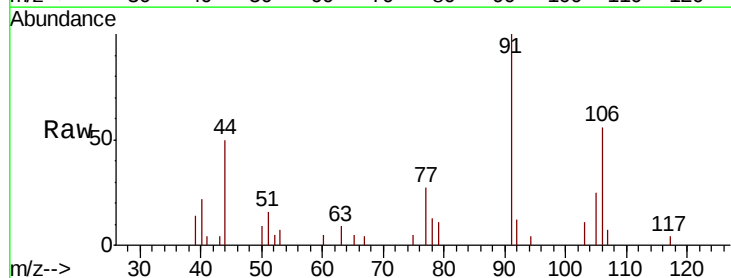
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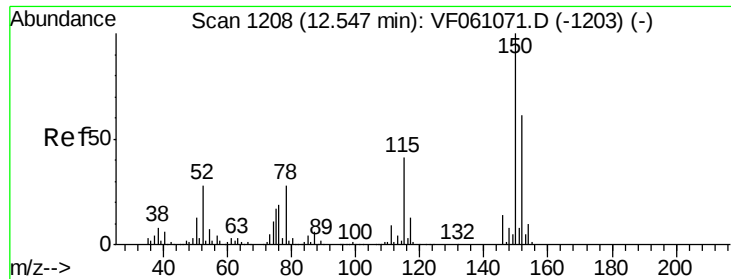
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#68  
m/p-Xylenes  
Concen: 1.510 ug/l  
RT: 10.17 min Scan# 967  
Delta R.T. 0.03 min  
Lab File: VF061130.D  
Acq: 21 Dec 2018 17:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 177.7 | 168.2 | 252.2 |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.03 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

Instrument :

MSVOA\_F

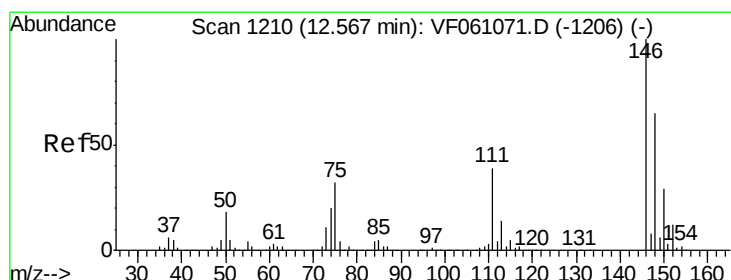
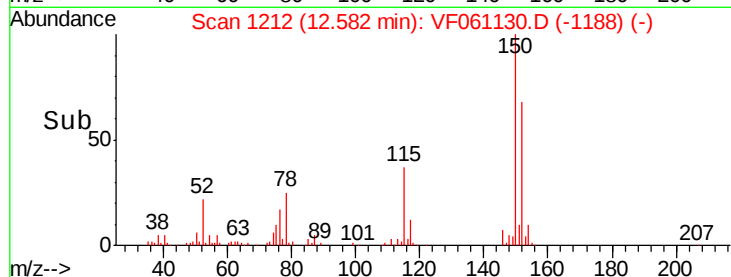
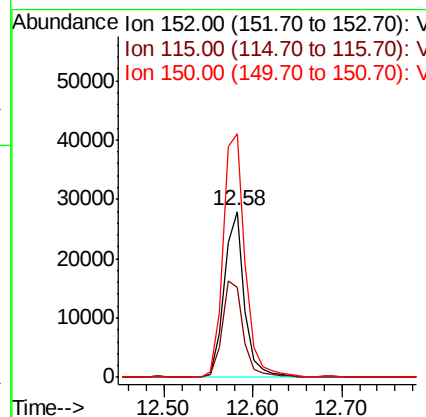
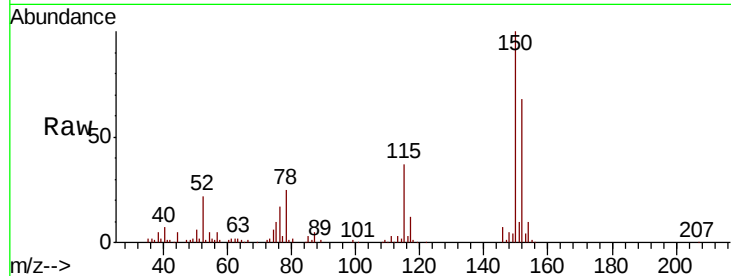
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 44843 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 54.1  | 33.3  | 99.9  |
| 150       | 146.7 | 0.0   | 328.2 |

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#88

1,4-Dichlorobenzene

Concen: 4.871 ug/l

RT: 12.59 min Scan# 1213

Delta R.T. 0.02 min

Lab File: VF061130.D

Acq: 21 Dec 2018 17:12

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 7440 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 30.8  | 19.4  | 58.4 |
| 148       | 60.3  | 32.4  | 97.0 |

