

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\  
 Data File : VF062184.D  
 Acq On : 16 Apr 2019 19:10  
 Operator : FY/SY  
 Sample : K2405-01  
 Misc : 6.02g/5mL/MSVOA F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 B-1D(0-24)

Manual Integrations  
 APPROVED

MMDadoda  
 4/17/2019 11:49:25 AM

Quant Time: Apr 17 08:30:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F041619S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 07:56:48 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 5.06  | 168  | 450230   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.78  | 114  | 695070   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.91  | 117  | 569380   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.62 | 152  | 331384   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 188125   | 46.40  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 92.80% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 270974   | 49.42  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.84% |          |
| 50) Toluene-d8              | 7.71  | 98   | 603438   | 37.66  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 75.32% |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 282291   | 44.61  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 89.22% |          |
| Target Compounds            |       |      |          |        |        |          |
| 20) Methylene Chloride      | 2.33  | 84   | 64522m   | 10.300 | ug/l   |          |
| 52) Toluene                 | 7.78  | 92   | 73562    | 6.138  | ug/l   | 87       |

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

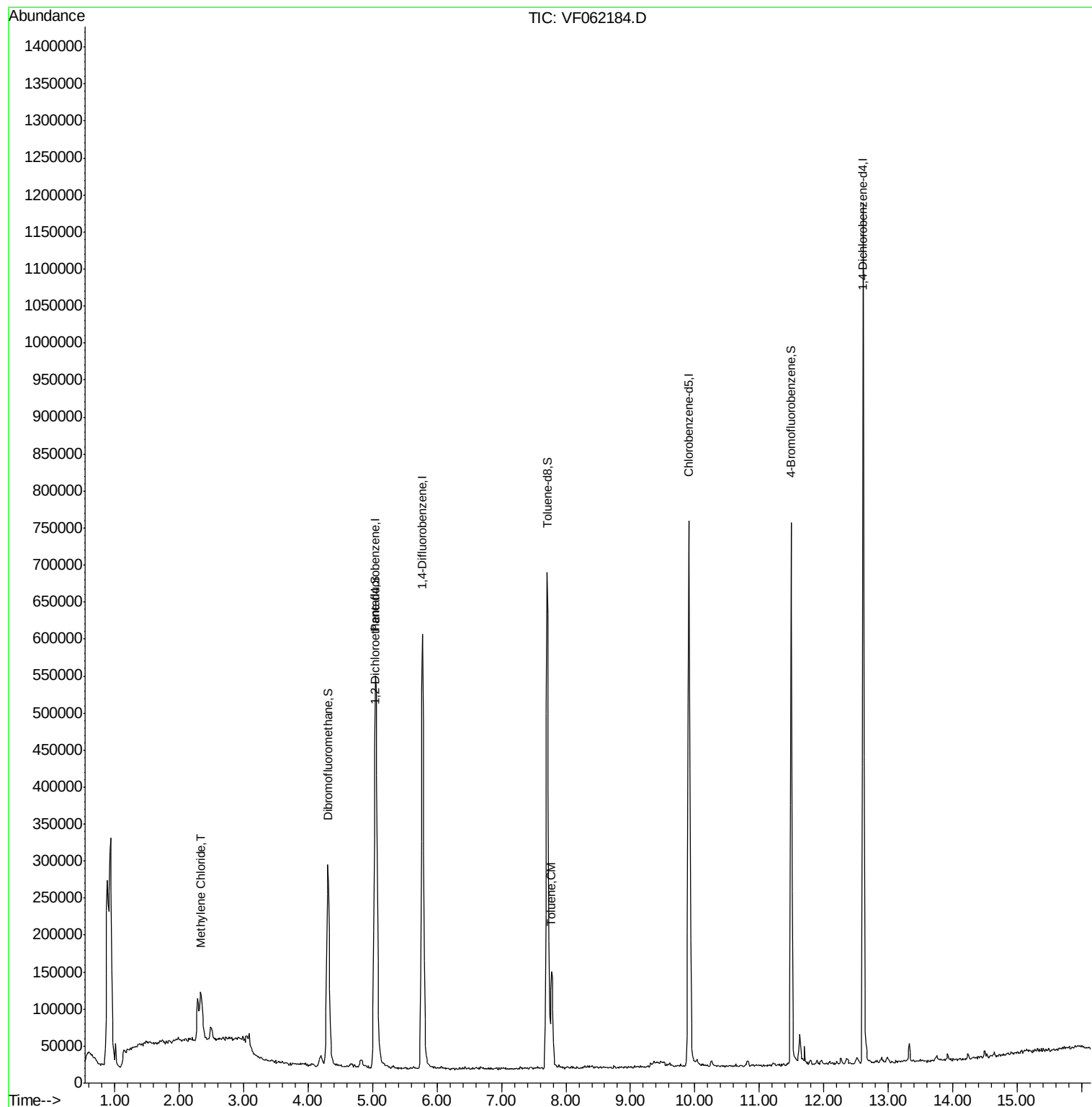
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF041619\  
Data File : VF062184.D  
Acq On : 16 Apr 2019 19:10  
Operator : FY/SY  
Sample : K2405-01  
Misc : 6.02g/5mL/MSVOA F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

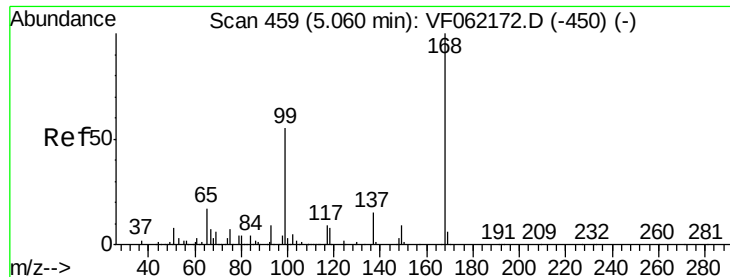
Instrument :  
MSVOA\_F  
ClientSampleId :  
B-1D(0-24)

Manual Integrations  
APPROVED

MMDadoda  
4/17/2019 11:49:25 AM

Quant Time: Apr 17 08:30:11 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F041619S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 17 07:56:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.00 min

Lab File: VF062184.D

Acq: 16 Apr 2019 19:10

Instrument :

MSVOA\_F

ClientSampleId :

B-1D(0-24)

Tot Ion:168 Resp: 450230

Ion Ratio Lower Upper

168 100

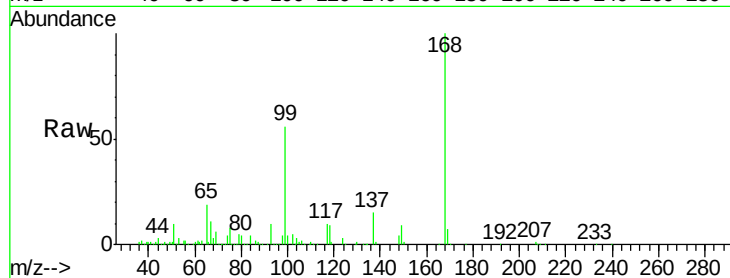
99 55.7 44.2 66.4

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:49:25 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

150000

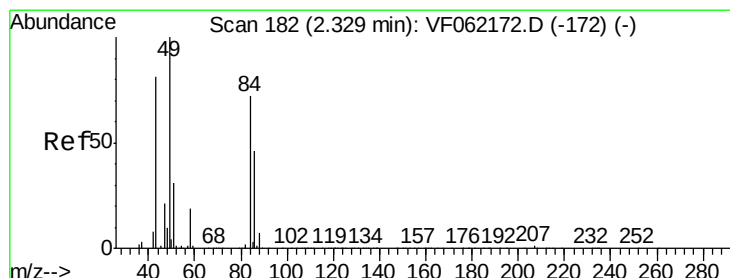
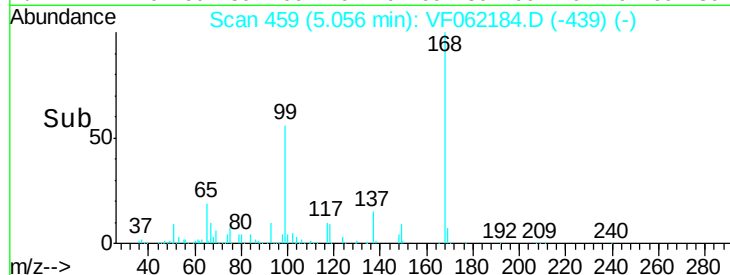
100000

50000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#20

Methylene Chloride

Concen: 10.300 ug/l m

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF062184.D

Acq: 16 Apr 2019 19:10

Tgt Ion: 84 Resp: 64522

Ion Ratio Lower Upper

84 100

49 134.4 111.5 167.3

51 44.9 34.9 52.3

86 63.9 50.9 76.3

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

25000

20000

15000

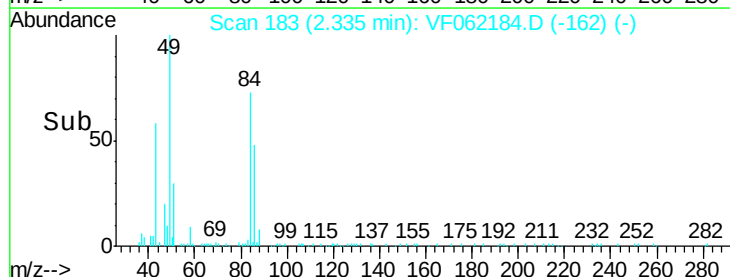
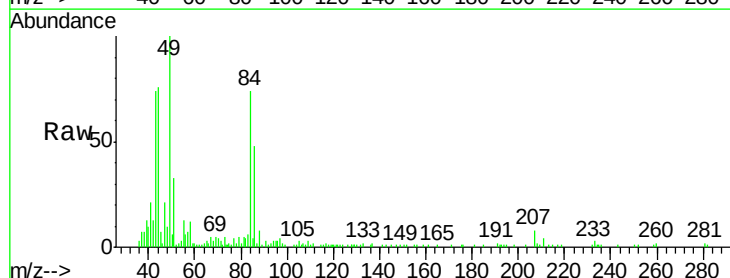
10000

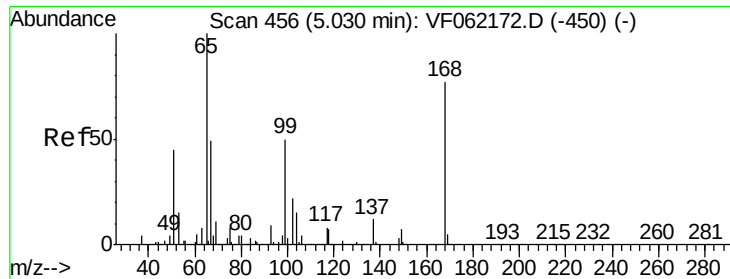
5000

0

2.20 2.30 2.40 2.50

Time-->





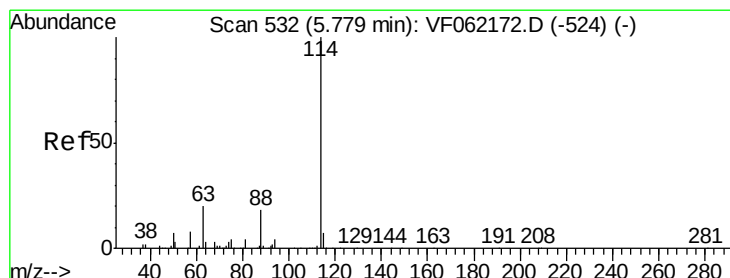
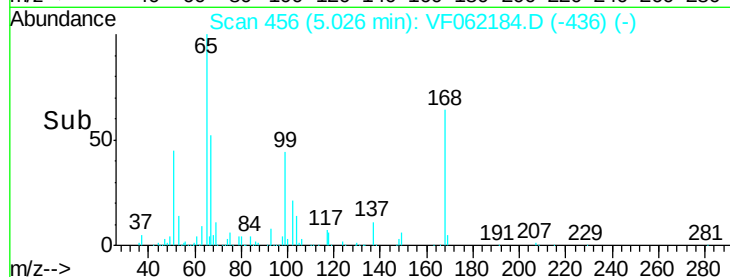
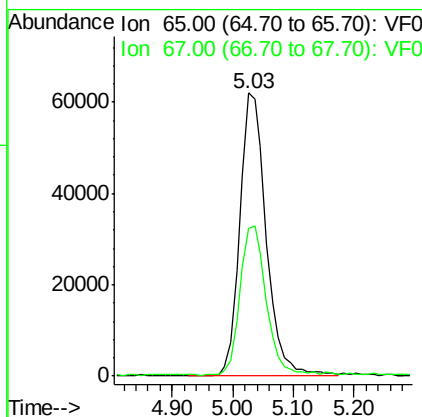
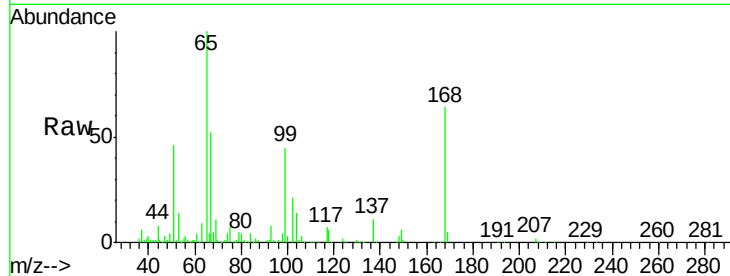
#33  
 1,2-Dichloroethane-d4  
 Concen: 46.402 ug/l  
 RT: 5.03 min Scan# 456  
 Delta R.T. -0.00 min  
 Lab File: VF062184.D  
 Acq: 16 Apr 2019 19:10

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 B-1D(0-24)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 188125 |       |       |
| 67      | 52.3  | 0.0    | 107.8 |       |

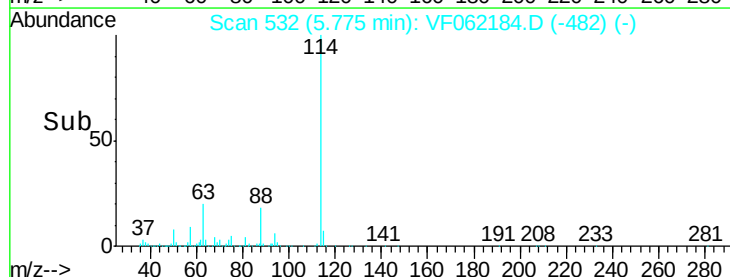
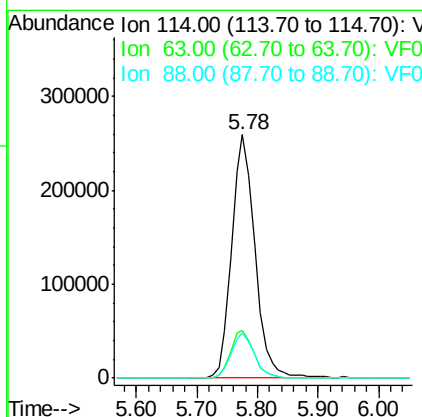
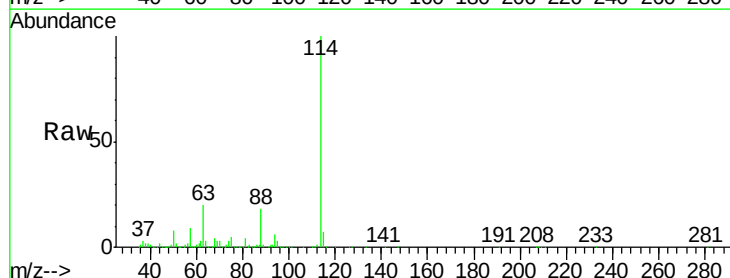
Manual Integrations  
 APPROVED

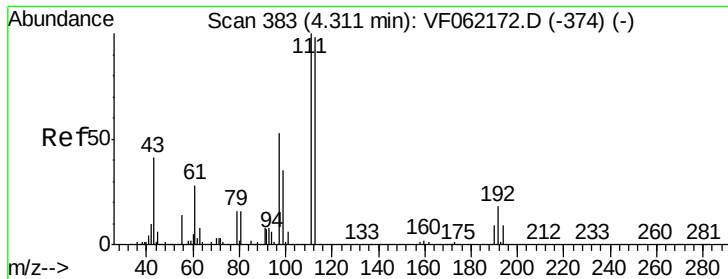
MMDadoda  
 4/17/2019 11:49:25 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.78 min Scan# 532  
 Delta R.T. -0.00 min  
 Lab File: VF062184.D  
 Acq: 16 Apr 2019 19:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 695070 |       |       |
| 63      | 19.9  | 0.0    | 40.0  |       |
| 88      | 18.3  | 0.0    | 36.6  |       |





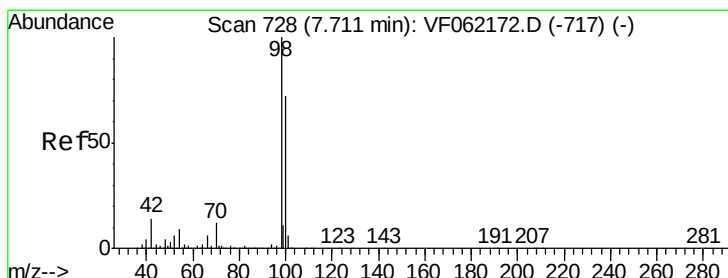
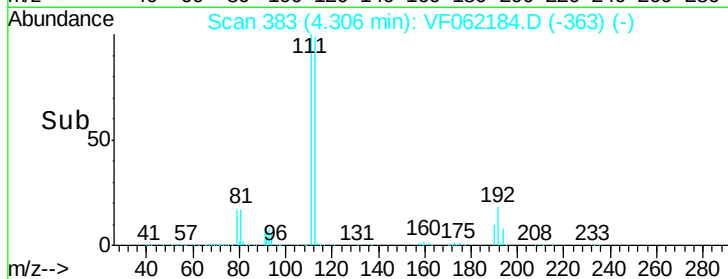
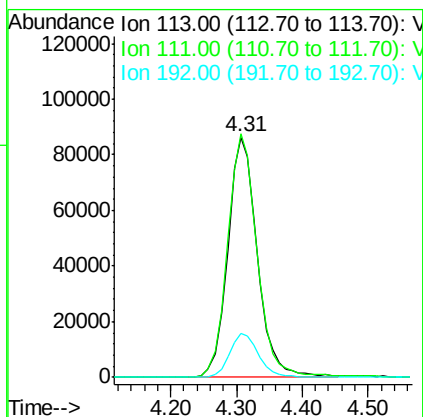
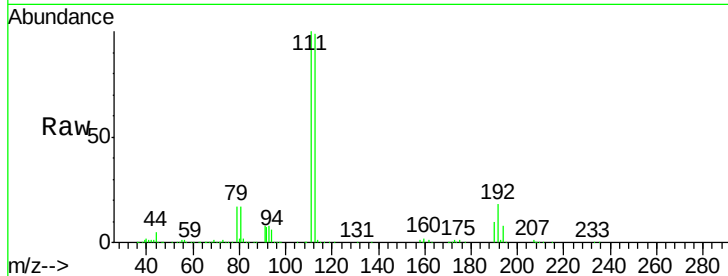
#35  
Dibromofluoromethane  
Concen: 49.422 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. -0.00 min  
Lab File: VF062184.D  
Acq: 16 Apr 2019 19:10

Instrument :  
MSVOA\_F  
ClientSampleId :  
B-1D(0-24)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 81.6  | 122.4 |
| 192     | 18.3  | 15.0  | 22.4  |

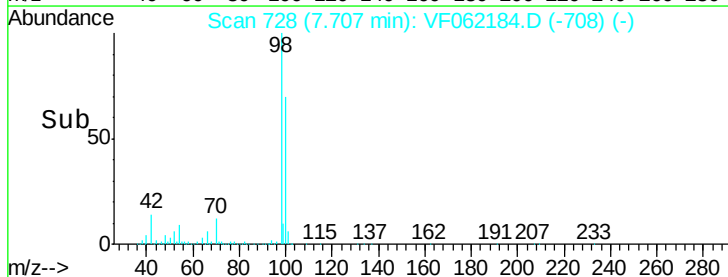
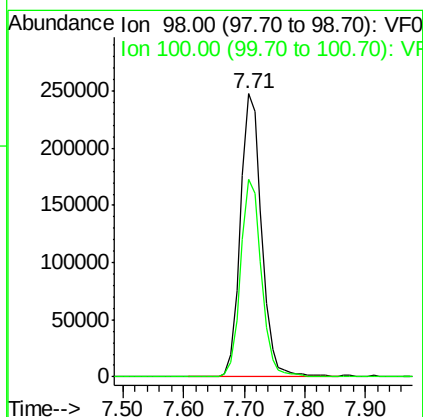
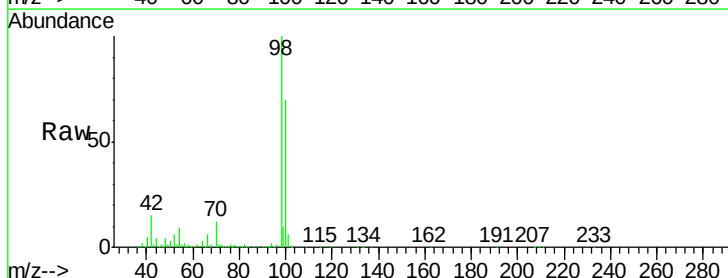
Manual Integrations  
APPROVED

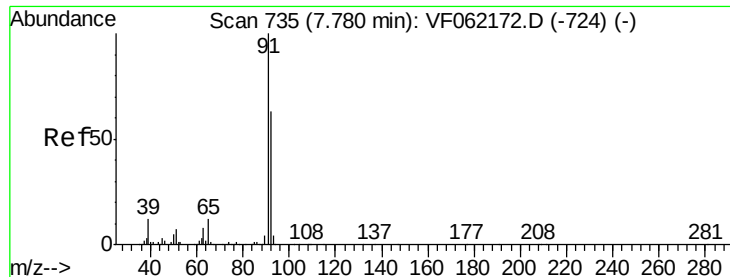
MMDadoda  
4/17/2019 11:49:25 AM



#50  
Toluene-d8  
Concen: 37.662 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. -0.00 min  
Lab File: VF062184.D  
Acq: 16 Apr 2019 19:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 69.6  | 57.4  | 86.0  |





#52

Toluene

Concen: 6.138 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF062184.D

Acq: 16 Apr 2019 19:10

Instrument :

MSVOA\_F

ClientSampleId :

B-1D(0-24)

Tot Ion: 92 Resp: 73562

Ion Ratio Lower Upper

92 100

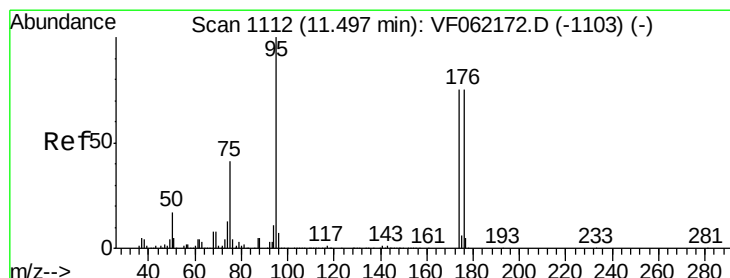
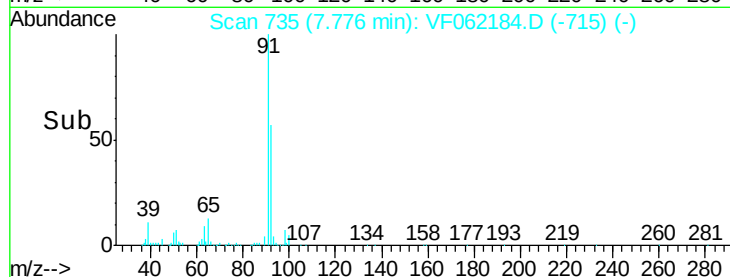
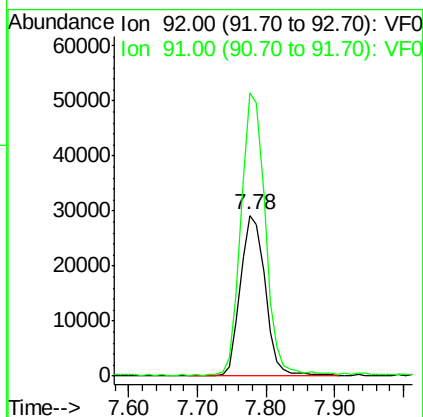
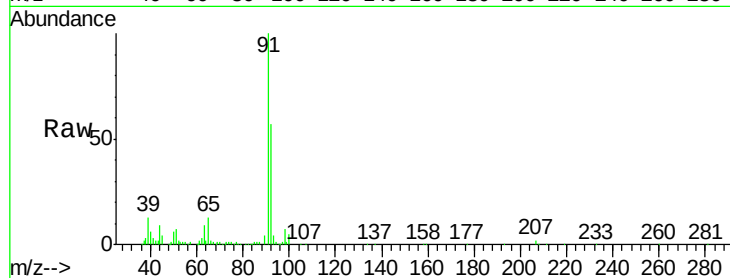
91 175.8 126.9 190.3

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:49:25 AM



#62

4-Bromofluorobenzene

Concen: 44.615 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF062184.D

Acq: 16 Apr 2019 19:10

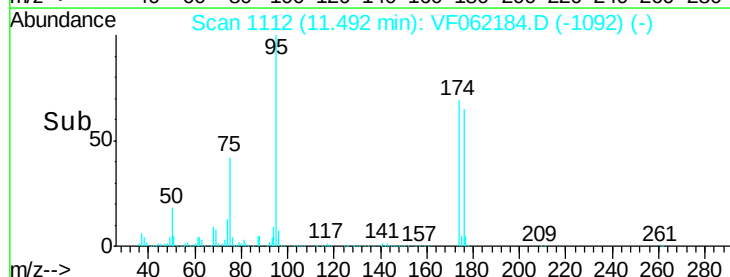
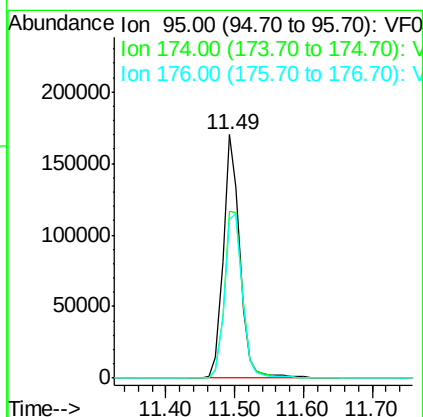
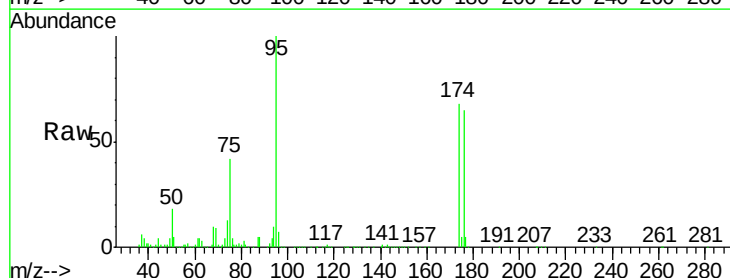
Tgt Ion: 95 Resp: 282291

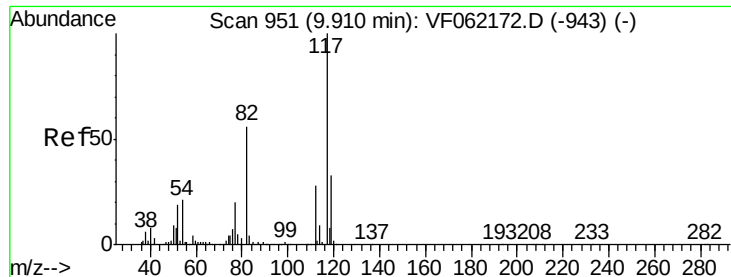
Ion Ratio Lower Upper

95 100

174 68.5 0.0 150.2

176 65.4 0.0 149.4





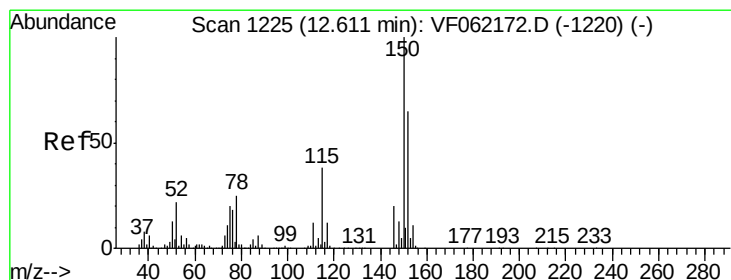
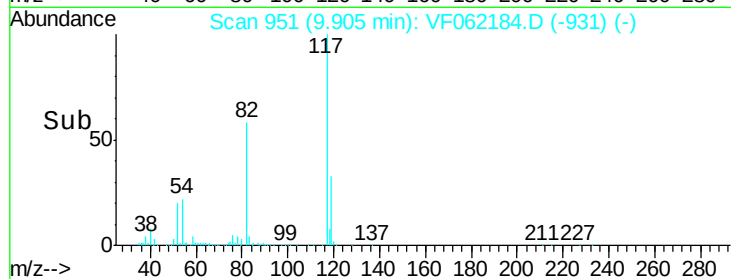
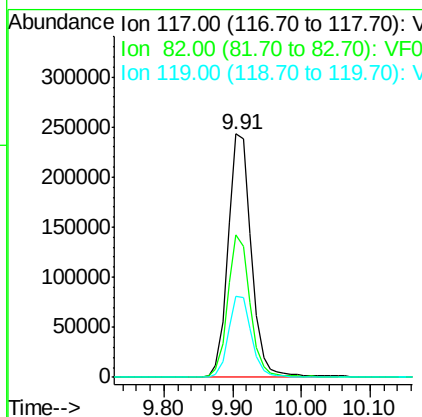
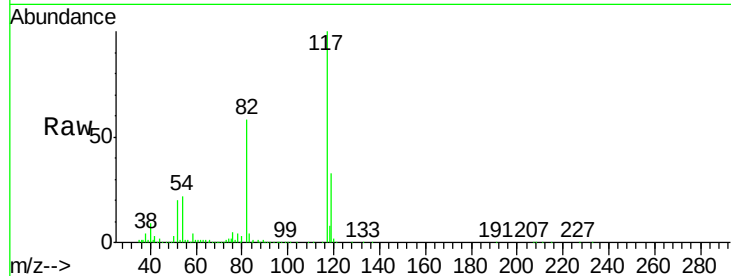
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 951  
Delta R.T. -0.00 min  
Lab File: VF062184.D  
Acq: 16 Apr 2019 19:10

Instrument :  
MSVOA\_F  
ClientSampleId :  
B-1D(0-24)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 569380 |       |       |
| 82      | 58.4  | 45.2   | 67.8  |       |
| 119     | 33.4  | 26.6   | 39.8  |       |

Manual Integrations  
APPROVED

MMDadoda  
4/17/2019 11:49:25 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.62 min Scan# 1226  
Delta R.T. 0.01 min  
Lab File: VF062184.D  
Acq: 16 Apr 2019 19:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 331384 |       |       |
| 115     | 53.8  | 29.0   | 87.1  |       |
| 150     | 148.3 | 0.0    | 309.2 |       |

