

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
 Data File : BF091567.D  
 Acq On : 13 Dec 2016 21:20  
 Operator : UM/SJ  
 Sample : H5994-03  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-46(6-8)-12-8-16

Manual Integrations  
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 12/14/2016 6:23:21 PM

Quant Time: Dec 14 01:24:26 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 09 19:00:21 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 291800   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.10  | 136  | 1226031  | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.85  | 164  | 594419   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.33 | 188  | 931855   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.96 | 240  | 573954   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.38 | 264  | 602724   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 2347128  | 135.51 | ng    | 0.01     |
| 7) Phenol-d6                | 6.46  | 99   | 3308624  | 153.23 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.38  | 82   | 1906855  | 86.81  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330  | 636333   | 128.89 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.17  | 172  | 2476848  | 72.00  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.92 | 244  | 1808535  | 71.50  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.48  | 94   | 110356   | 4.37   | ng    | # 67     |
| 31) Naphthalene             | 8.12  | 128  | 251435   | 4.41   | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.81  | 142  | 141027   | 3.82   | ng    | 97       |
| 48) Acenaphthylene          | 9.71  | 152  | 377179   | 7.42   | ng    | 98       |
| 49) Dimethylphthalate       | 9.57  | 163  | 455321   | 12.10  | ng    | 100      |
| 51) Acenaphthene            | 9.88  | 154  | 106669   | 3.02   | ng    | 100      |
| 54) Dibenzofuran            | 10.05 | 168  | 416736   | 9.54   | ng    | 93       |
| 57) Fluorene                | 10.40 | 166  | 520379   | 13.15  | ng    | 98       |
| 70) Phenanthrene            | 11.36 | 178  | 2464325  | 53.40  | ng    | 98       |
| 71) Anthracene              | 11.40 | 178  | 491230   | 9.87   | ng    | 98       |
| 72) Carbazole               | 11.56 | 167  | 207814   | 4.76   | ng    | 97       |
| 74) Fluoranthene            | 12.55 | 202  | 1915659  | 39.65  | ng    | 95       |
| 77) Pvrene                  | 12.77 | 202  | 1788225  | 39.27  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.95 | 228  | 664592m  | 19.94  | ng    |          |
| 82) Chrysene                | 13.99 | 228  | 500189   | 14.34  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.74 | 276  | 356680   | 11.37  | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 14.98 | 252  | 744677m  | 20.73  | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.00 | 252  | 213181m  | 6.75   | ng    |          |
| 89) Benzo(a)pvrene          | 15.32 | 252  | 543610   | 16.79  | ng    | # 96     |
| 90) Dibenzo(a,h)anthracene  | 16.75 | 278  | 80629m   | 2.78   | ng    |          |
| 91) Benzo(q,h,i)perylene    | 17.15 | 276  | 343072   | 11.63  | ng    | 97       |

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

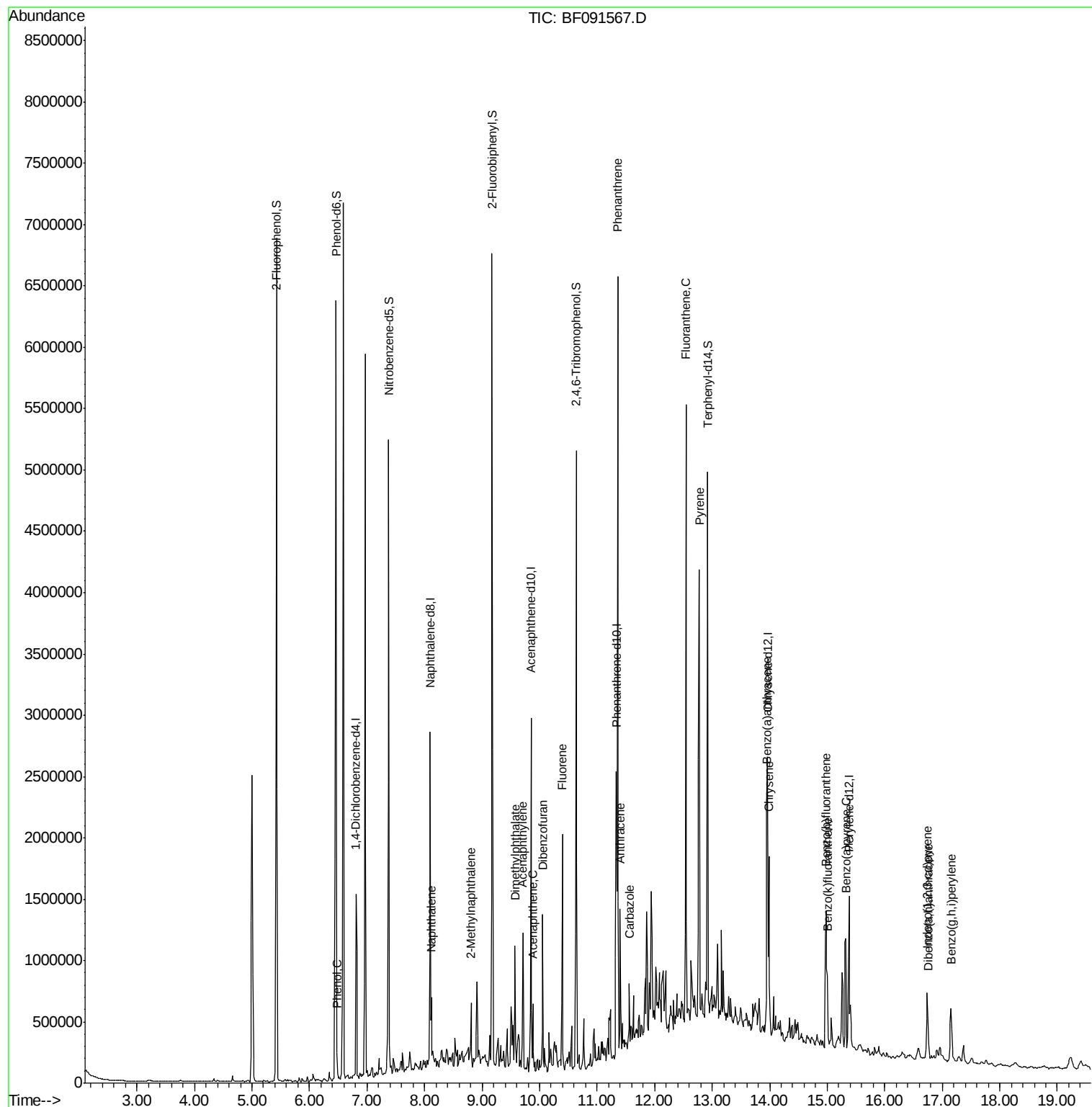
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
Data File : BF091567.D  
Acq On : 13 Dec 2016 21:20  
Operator : UM/SJ  
Sample : H5994-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

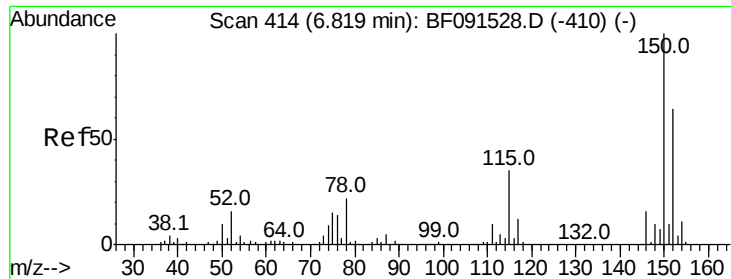
Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

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Quant Time: Dec 14 01:24:26 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 09 19:00:21 2016  
Response via : Initial Calibration





#1

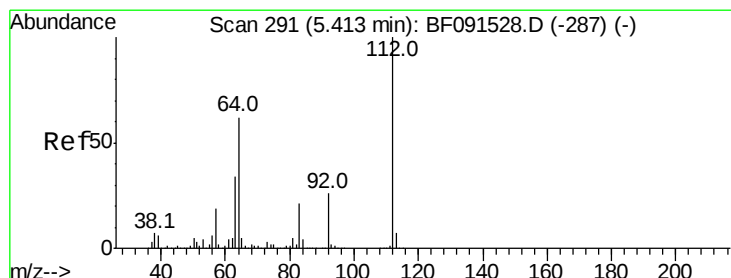
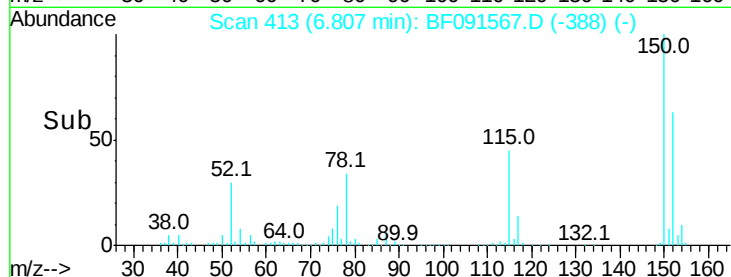
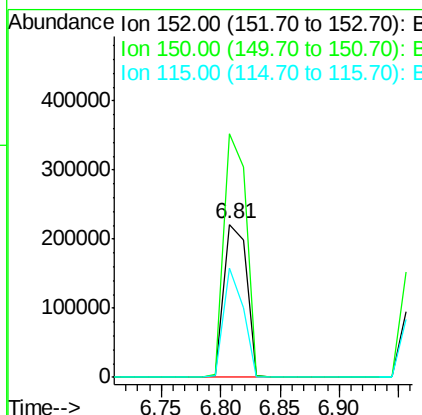
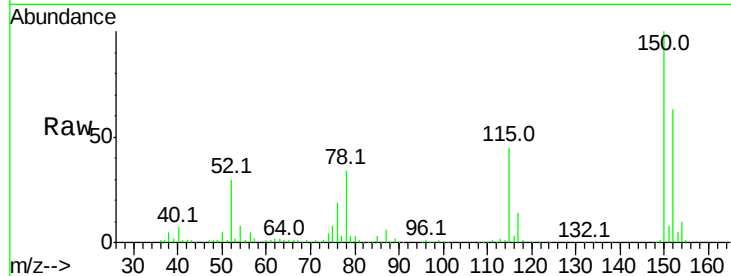
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.81 min Scan# 413  
Delta R.T. -0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.4 | 122.5 | 183.7 |
| 115     | 71.5  | 51.8  | 77.8  |

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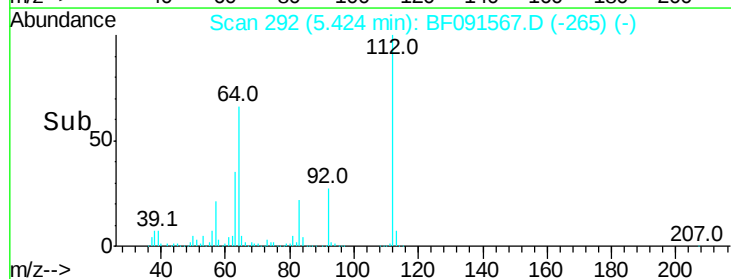
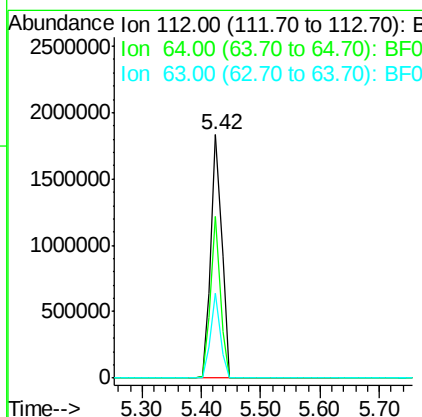
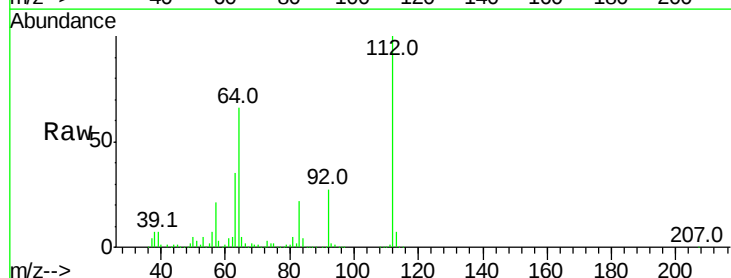
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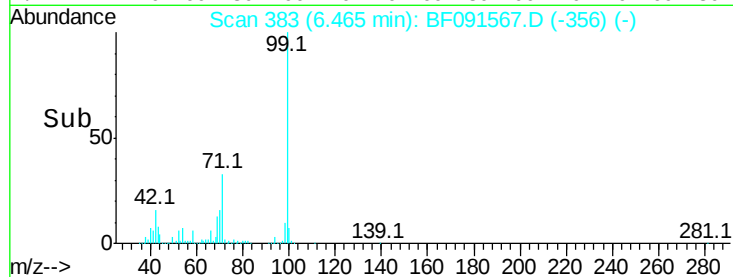
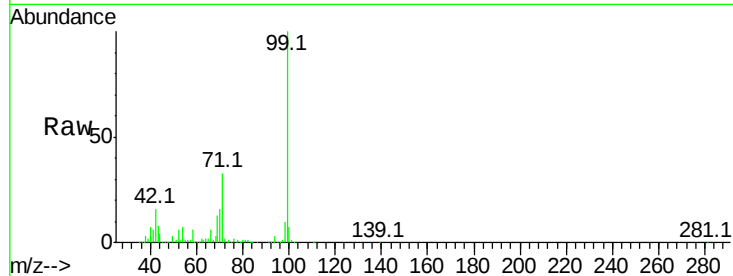
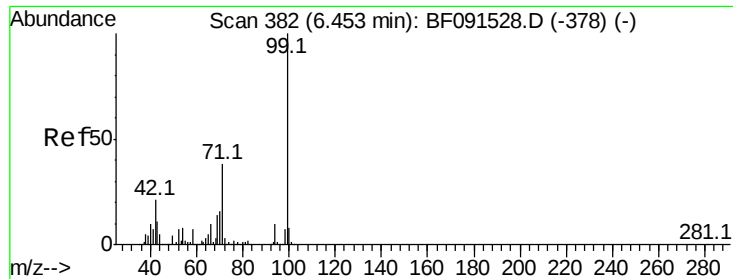


#5

2-Fluorophenol  
Concen: 135.51 ng  
RT: 5.42 min Scan# 292  
Delta R.T. 0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.4  | 61.5  | 92.3  |
| 63      | 34.6  | 33.3  | 49.9  |





#7

Phenol-d6

Concen: 153.23 ng

RT: 6.46 min Scan# 383

Delta R.T. 0.01 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

Instrument :

BNA\_F

ClientSampleId :

SB-46(6-8)-12-8-16

Tot Ion: 99 Resp: 3308624

Ion Ratio Lower Upper

99 100

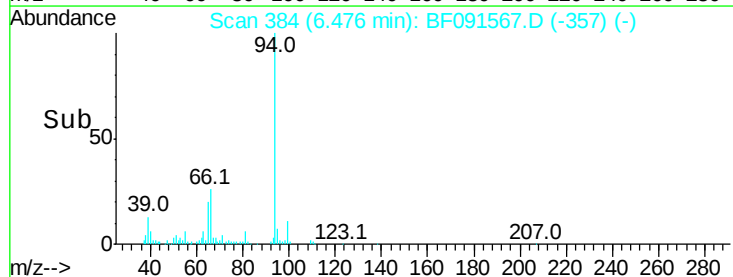
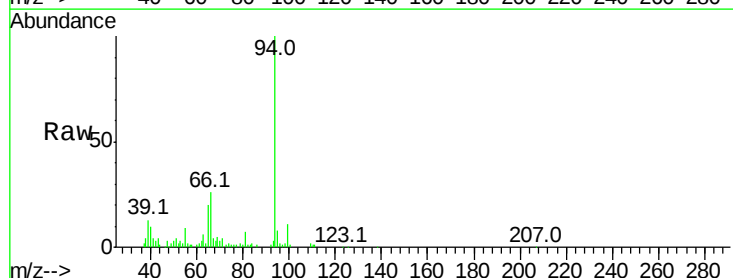
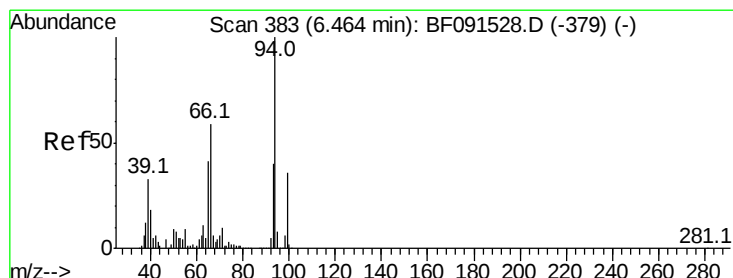
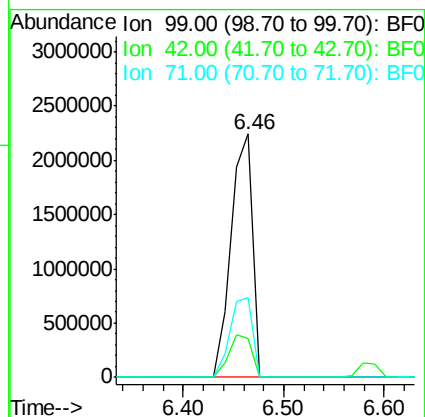
42 16.0 20.6 31.0#

71 32.7 29.9 44.9

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#10

Phenol

Concen: 4.37 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.01 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

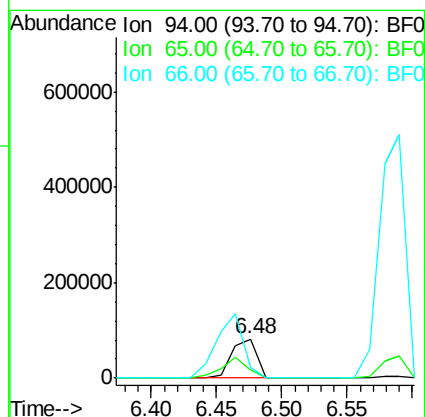
Tgt Ion: 94 Resp: 110356

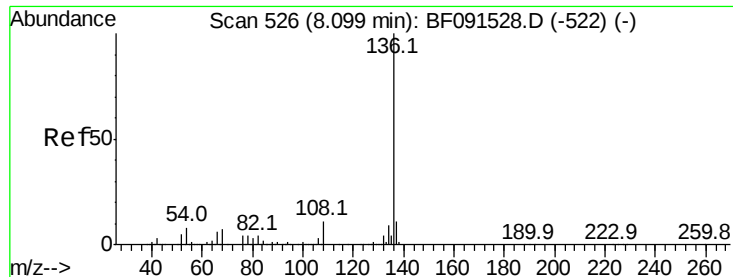
Ion Ratio Lower Upper

94 100

65 19.5 16.9 56.9

66 26.3 30.6 70.6#





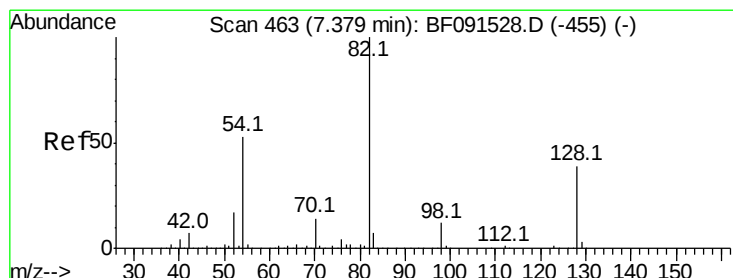
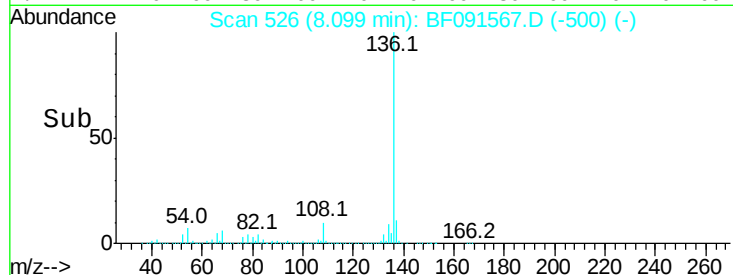
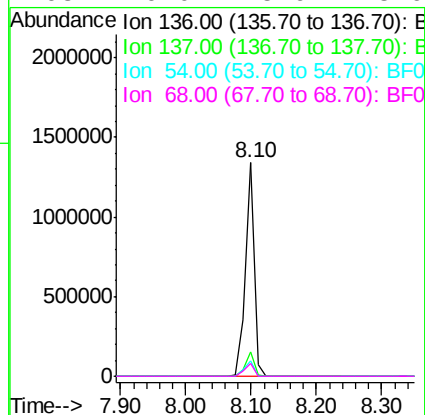
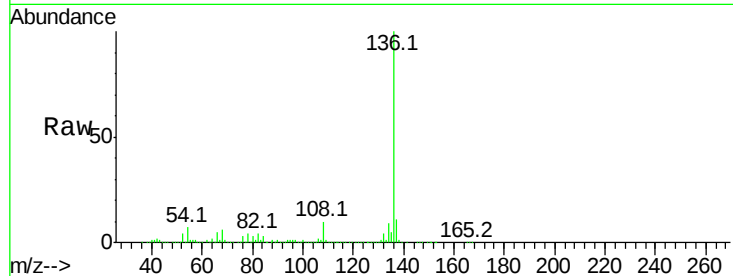
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.10 min Scan# 526  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 136     | 100   | 1226031 |       |       |
| 137     | 11.3  |         | 9.1   | 13.7  |
| 54      | 7.4   |         | 9.1   | 13.7# |
| 68      | 6.0   |         | 5.9   | 8.9   |

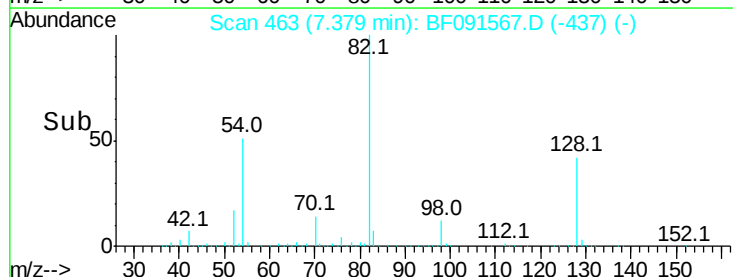
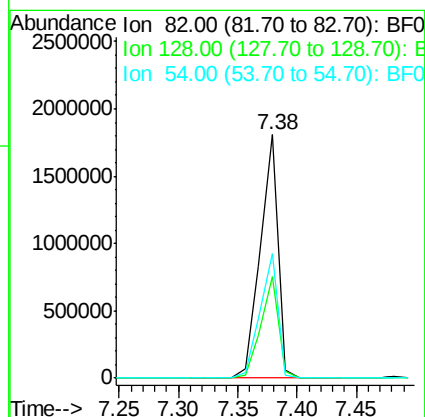
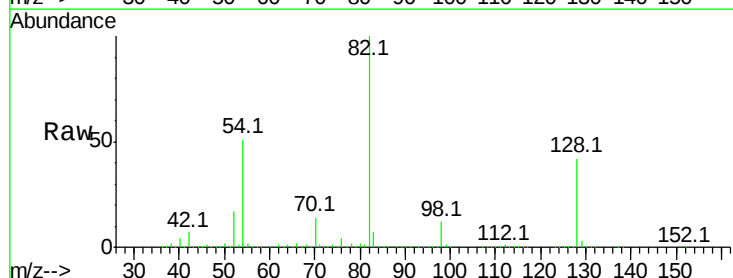
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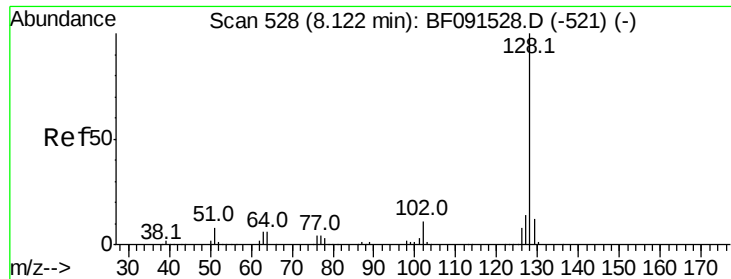
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#23  
Nitrobenzene-d5  
Concen: 86.81 ng  
RT: 7.38 min Scan# 463  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 82      | 100   | 1906855 |       |       |
| 128     | 41.8  |         | 31.8  | 47.6  |
| 54      | 51.1  |         | 49.1  | 73.7  |





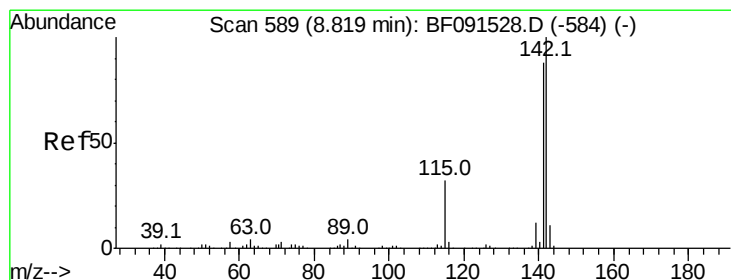
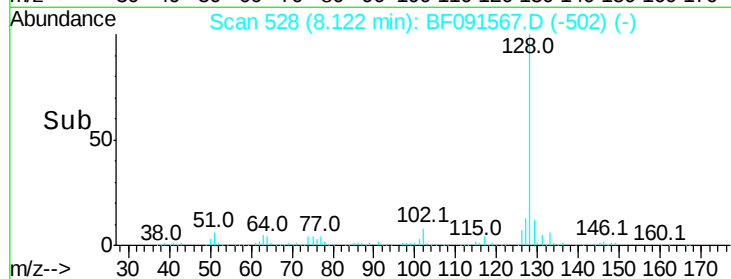
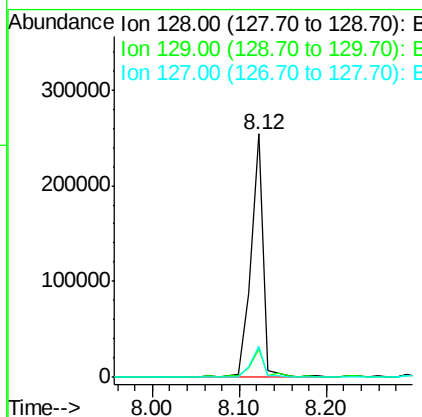
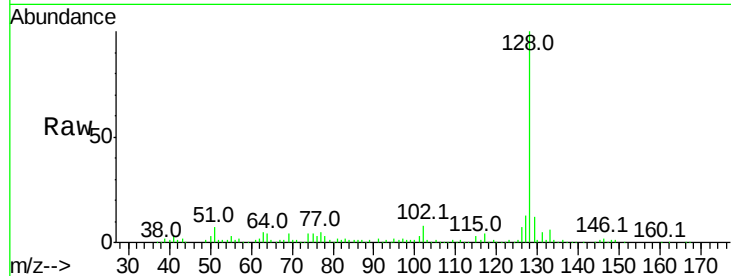
#31  
Naphthalene  
Concen: 4.41 ng  
RT: 8.12 min Scan# 528  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.7  | 9.1   | 13.7  |
| 127     | 12.9  | 11.0  | 16.4  |

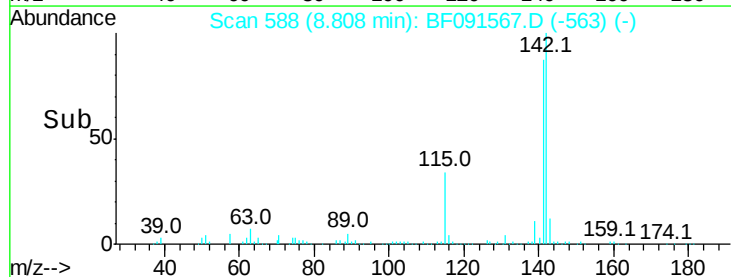
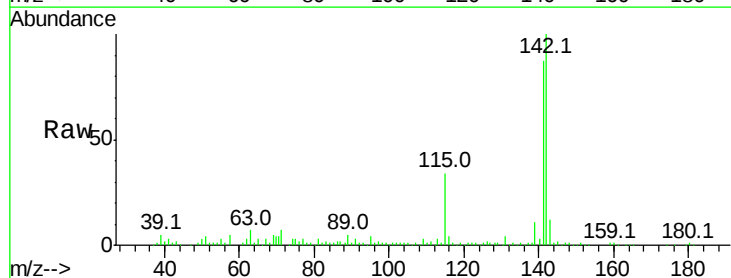
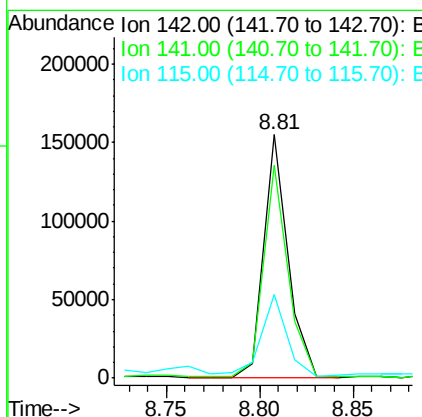
Manual Integrations  
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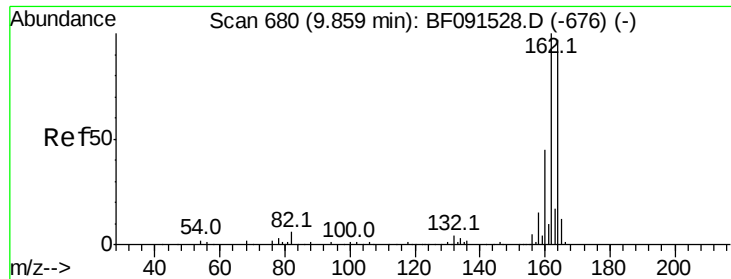
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#37  
2-Methylnaphthalene  
Concen: 3.82 ng  
RT: 8.81 min Scan# 588  
Delta R.T. -0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.4  | 71.7  | 107.5 |
| 115     | 34.1  | 25.0  | 37.6  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.01 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

Instrument :

BNA\_F

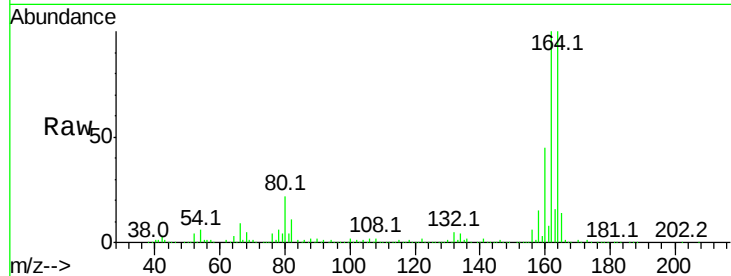
ClientSampleId :

SB-46(6-8)-12-8-16

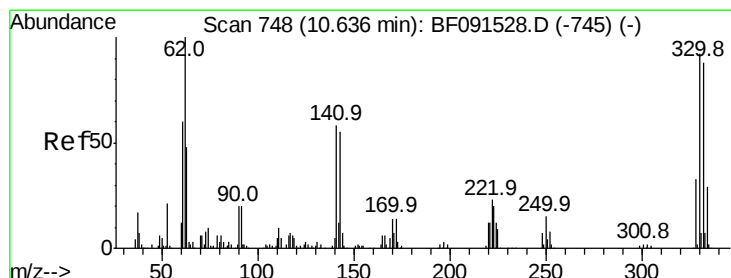
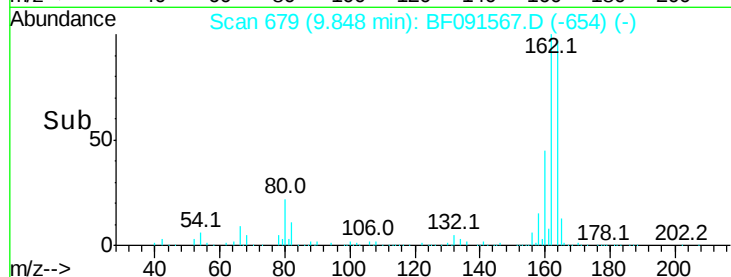
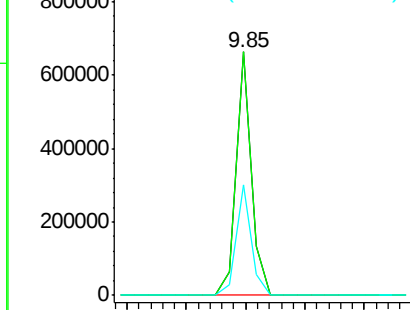
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 594419 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 100.0 | 82.6  | 124.0  |
| 160       | 45.4  | 36.7  | 55.1   |

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Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 128.89 ng

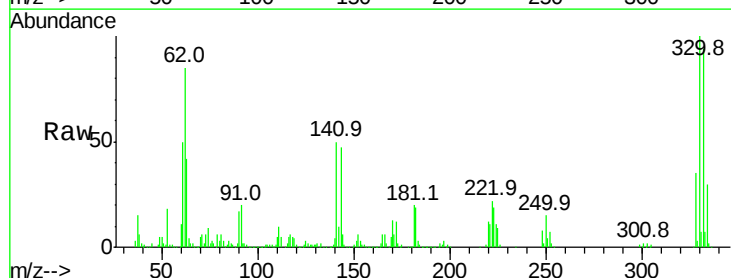
RT: 10.64 min Scan# 748

Delta R.T. 0.00 min

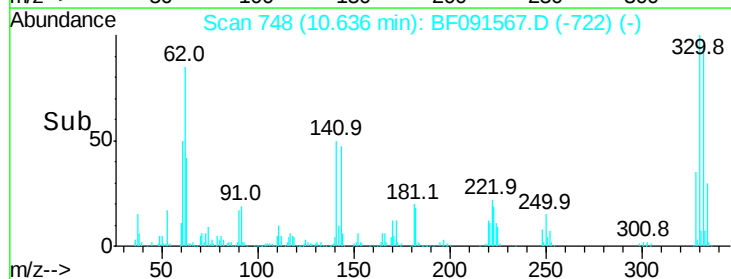
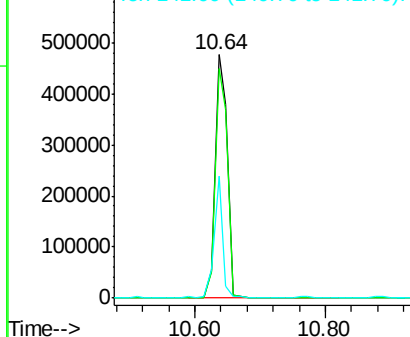
Lab File: BF091567.D

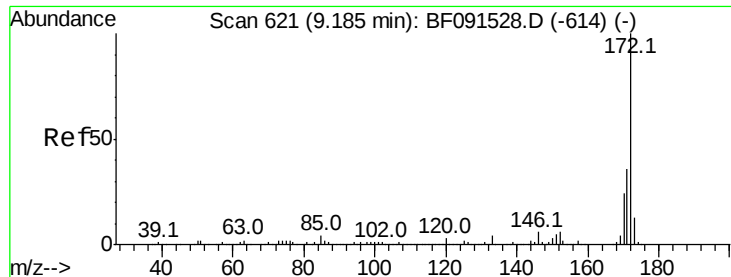
Acq: 13 Dec 2016 21:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 636333 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.2  | 76.2  | 114.4  |
| 141       | 35.0  | 33.6  | 50.4   |



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E





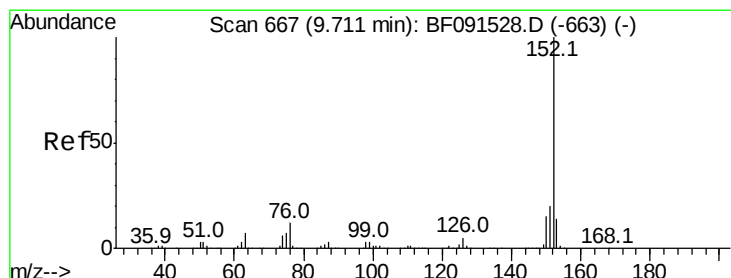
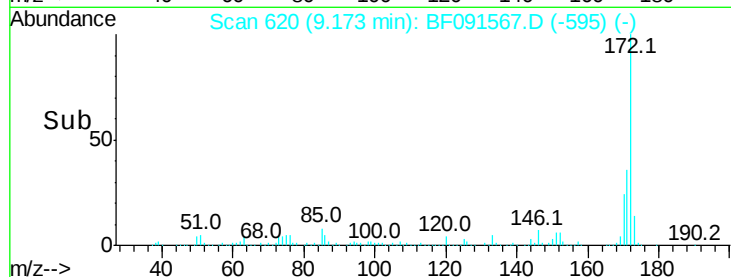
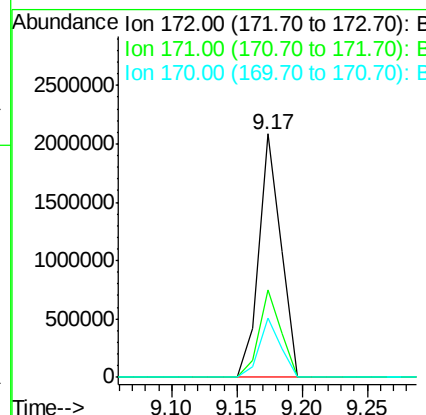
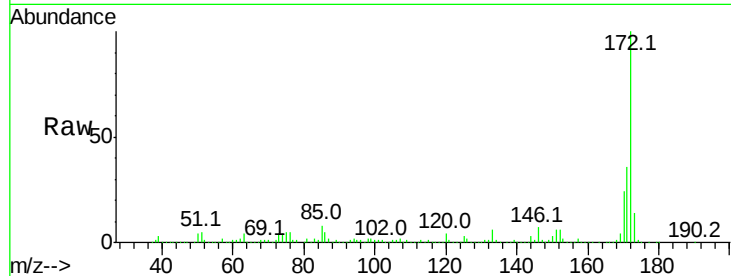
#44  
2-Fluorobiphenyl  
Concen: 72.00 ng  
RT: 9.17 min Scan# 620  
Delta R.T. -0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

Tot Ion:172 Resp: 2476848  
Ion Ratio Lower Upper  
172 100  
171 35.9 29.4 44.0  
170 24.3 19.7 29.5

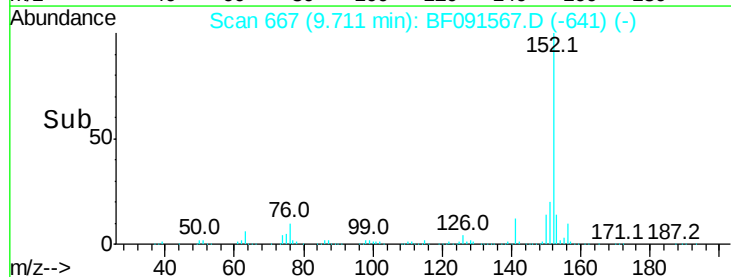
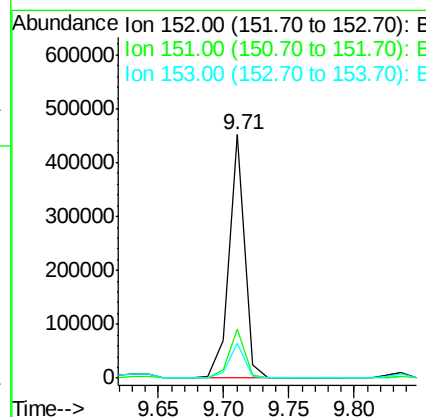
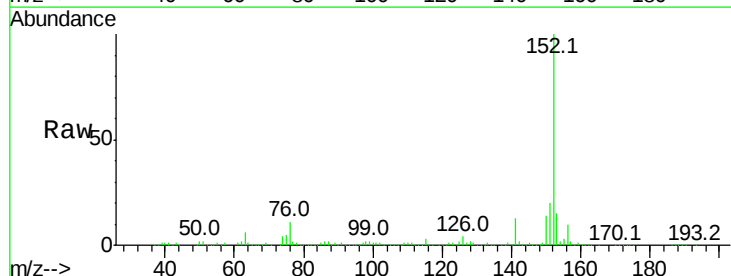
Manual Integrations  
APPROVED

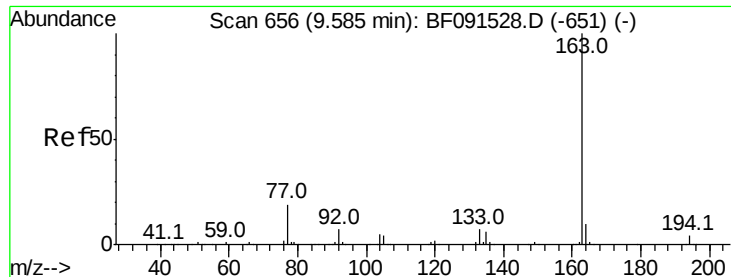
sohil  
12/14/2016 6:23:21 PM



#48  
Acenaphthylene  
Concen: 7.42 ng  
RT: 9.71 min Scan# 667  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Tgt Ion:152 Resp: 377179  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.6 24.8  
153 14.6 10.7 16.1





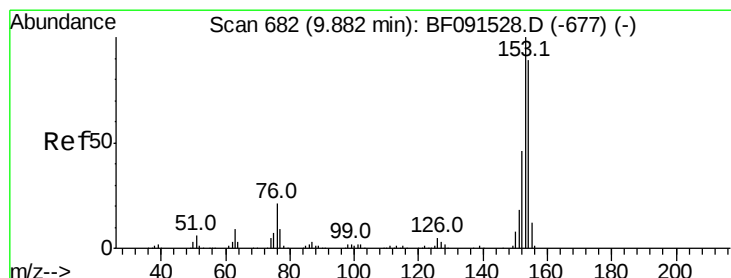
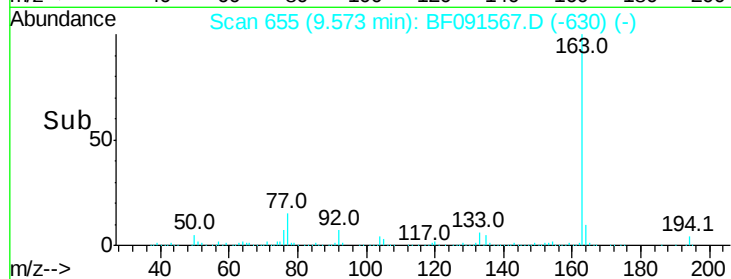
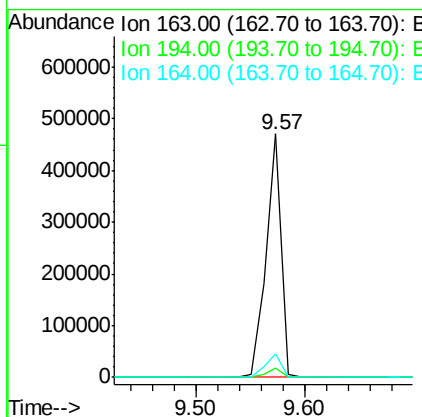
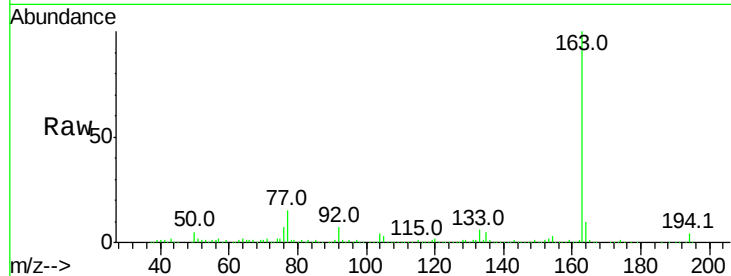
#49  
Dimethylphthalate  
Concen: 12.10 ng  
RT: 9.57 min Scan# 655  
Delta R.T. -0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 455321 |       |       |
| 194     | 3.7   |        | 3.0   | 4.4   |
| 164     | 9.6   |        | 7.8   | 11.8  |

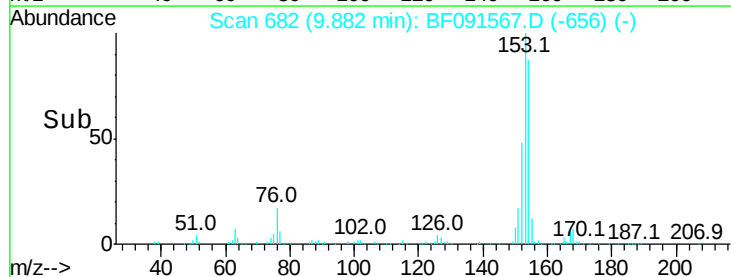
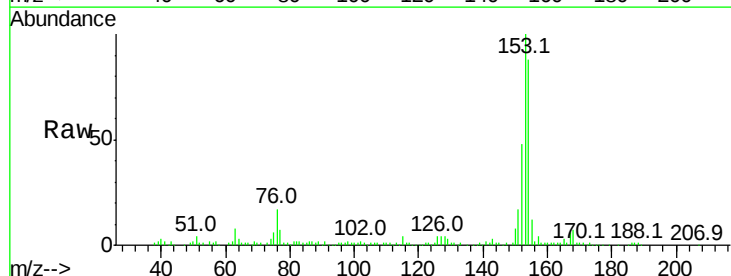
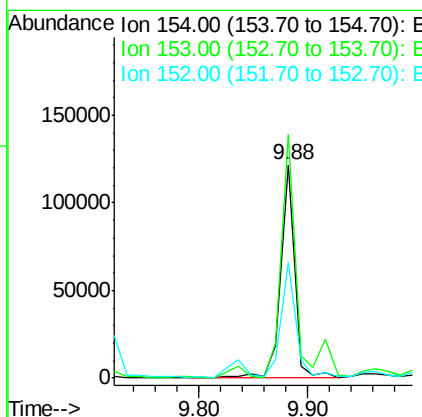
Manual Integrations  
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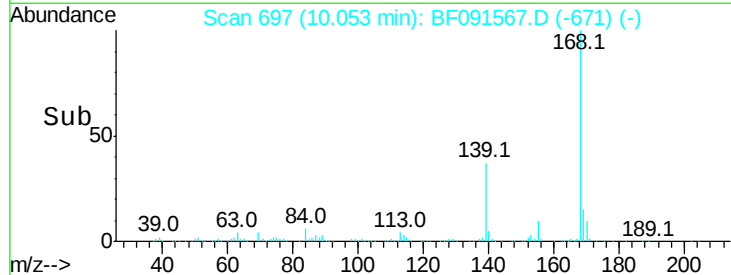
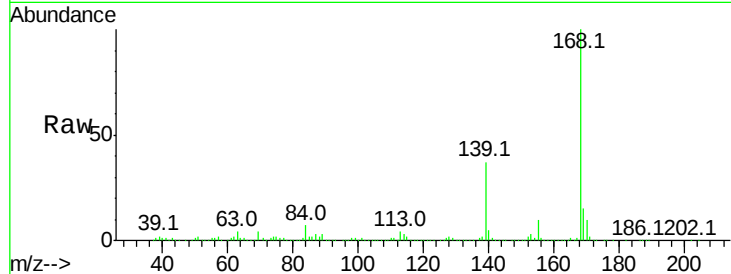
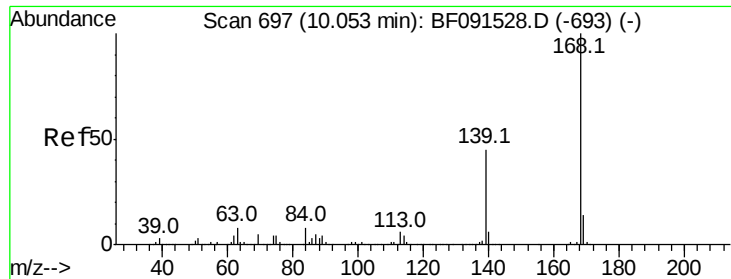
sohil  
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#51  
Acenaphthene  
Concen: 3.02 ng  
RT: 9.88 min Scan# 682  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 106669 |       |       |
| 153     | 114.0 |        | 91.0  | 136.6 |
| 152     | 54.4  |        | 44.2  | 66.2  |





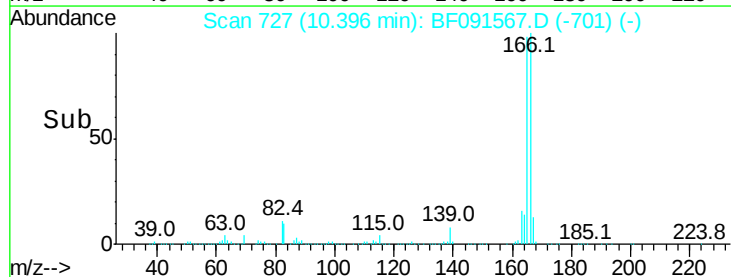
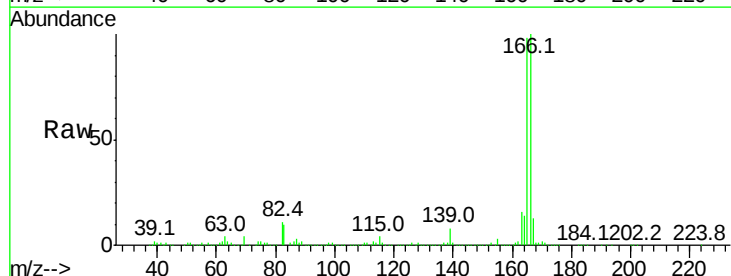
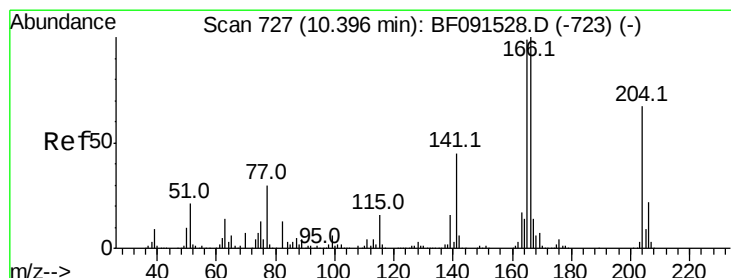
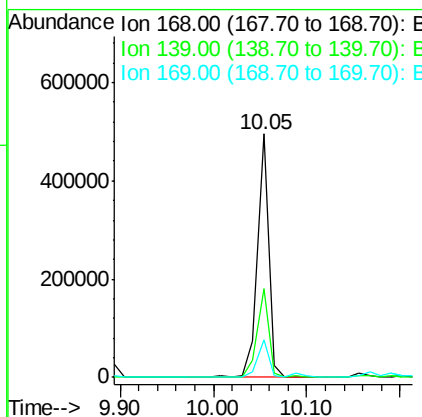
#54  
Dibenzofuran  
Concen: 9.54 ng  
RT: 10.05 min Scan# 697  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 168     | 100   | 416736 |       |       |
| 139     | 36.7  |        | 33.4  | 50.2  |
| 169     | 15.4  |        | 11.1  | 16.7  |

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

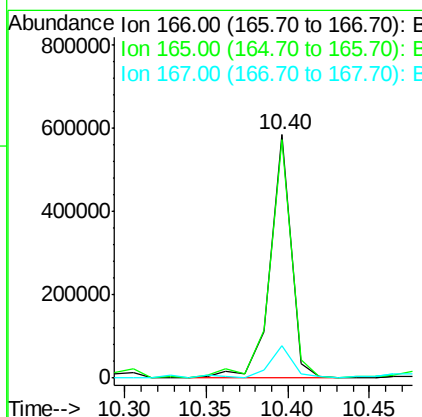
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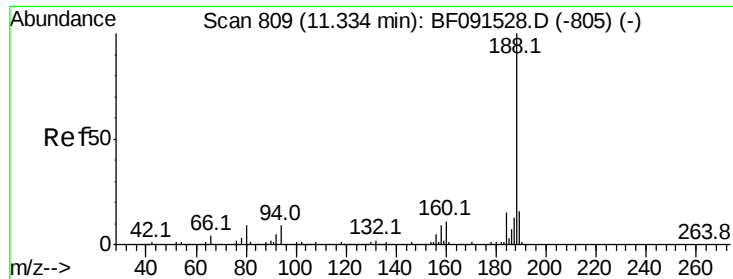
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#57  
Fluorene  
Concen: 13.15 ng  
RT: 10.40 min Scan# 727  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 520379 |       |       |
| 165     | 97.7  |        | 80.0  | 120.0 |
| 167     | 13.3  |        | 10.8  | 16.2  |





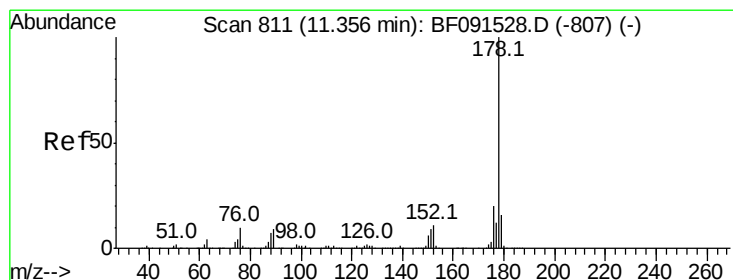
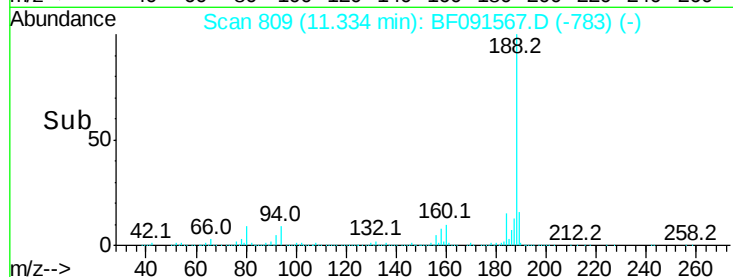
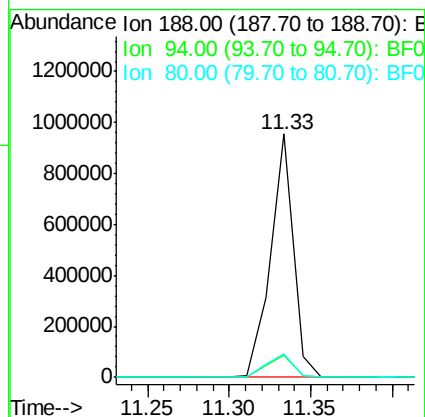
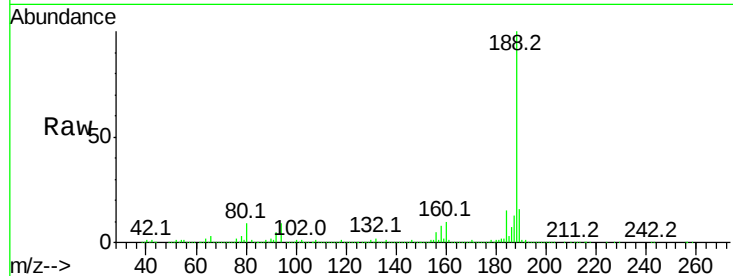
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.33 min Scan# 809  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 9.2   | 9.2        | 13.8#      |
| 80      | 9.4   | 10.5       | 15.7#      |

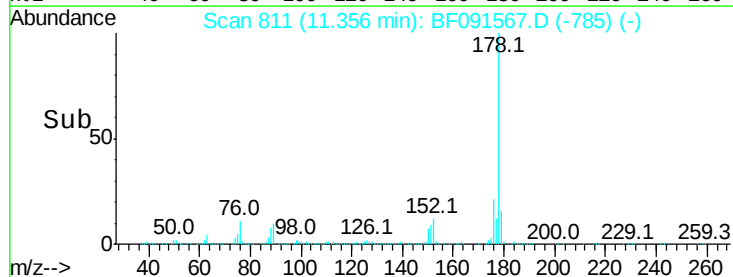
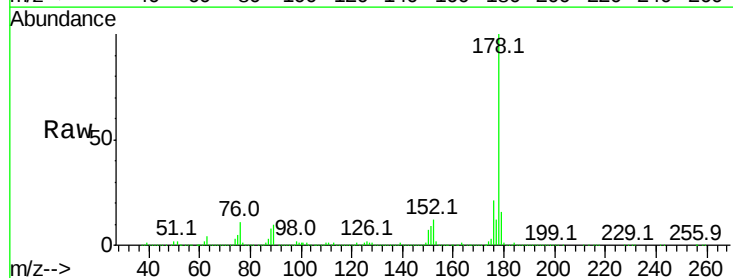
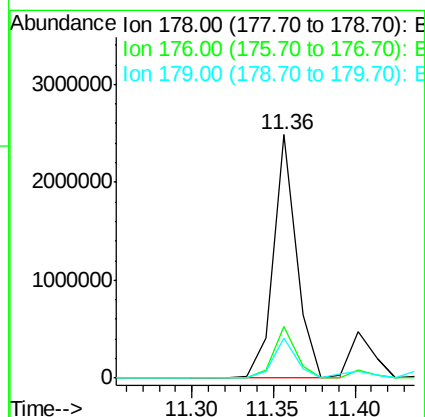
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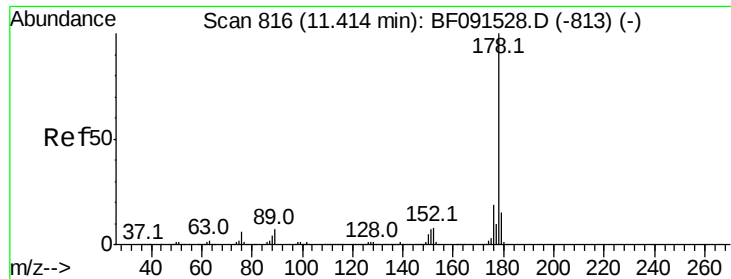
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#70  
Phenanthrene  
Concen: 53.40 ng  
RT: 11.36 min Scan# 811  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 21.1  | 15.9       | 23.9       |
| 179     | 16.5  | 12.6       | 18.8       |





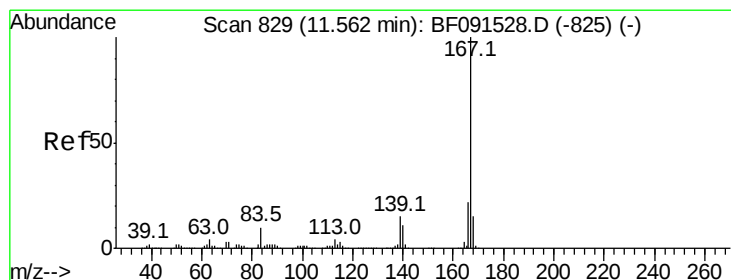
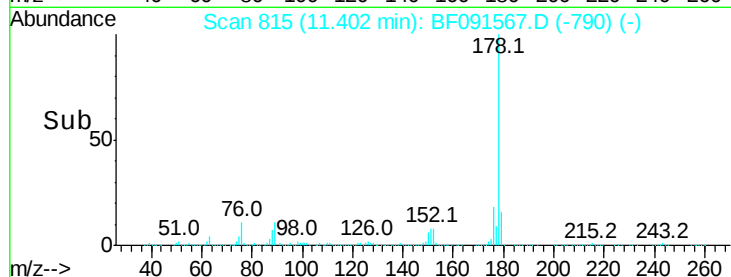
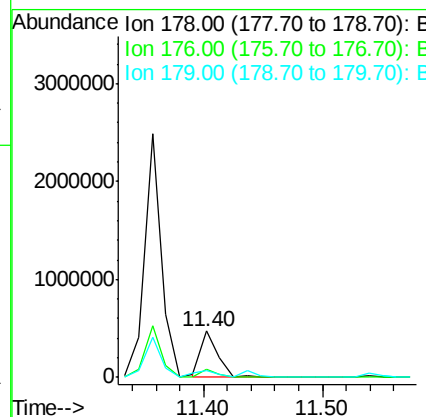
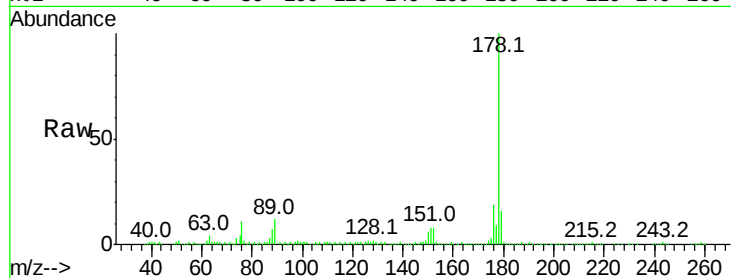
#71  
 Anthracene  
 Concen: 9.87 ng  
 RT: 11.40 min Scan# 815  
 Delta R.T. -0.01 min  
 Lab File: BF091567.D  
 Acq: 13 Dec 2016 21:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 15.8  | 23.6  |
| 179     | 16.1  | 12.7  | 19.1  |

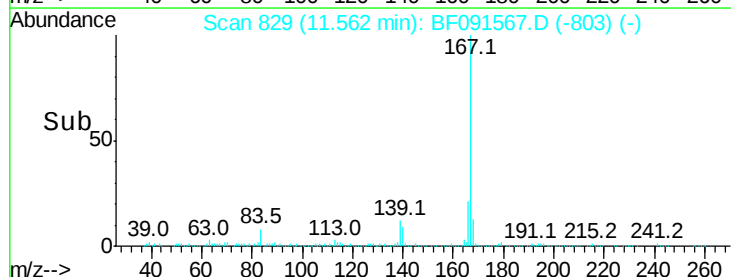
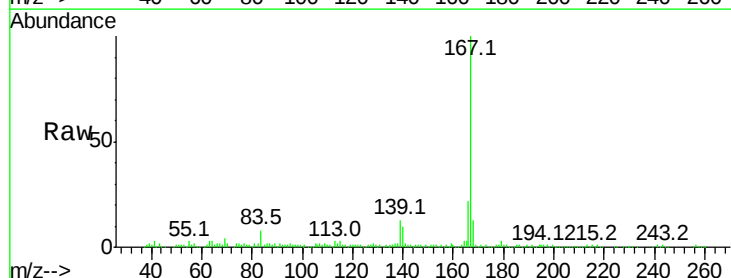
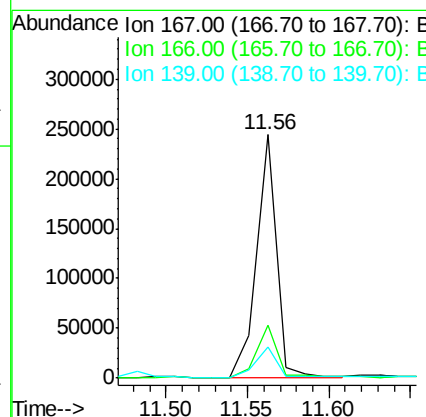
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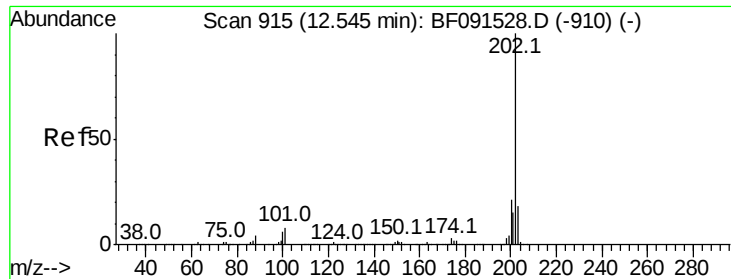
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#72  
 Carbazole  
 Concen: 4.76 ng  
 RT: 11.56 min Scan# 829  
 Delta R.T. 0.00 min  
 Lab File: BF091567.D  
 Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.6  | 18.1  | 27.1  |
| 139     | 12.7  | 11.5  | 17.3  |





#74

Fluoranthene

Concen: 39.65 ng

RT: 12.55 min Scan# 915

Delta R.T. 0.00 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

Instrument :

BNA\_F

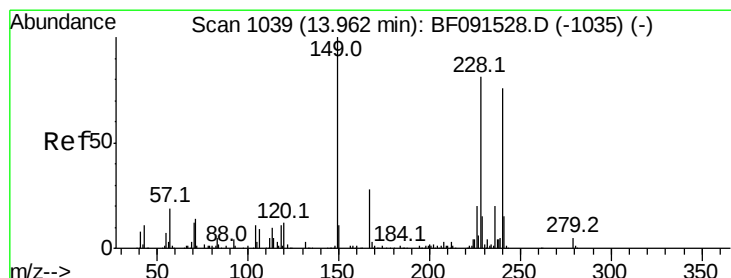
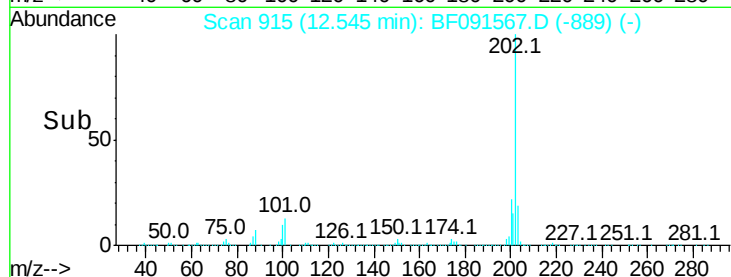
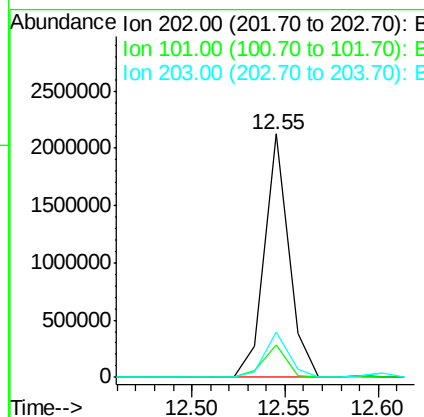
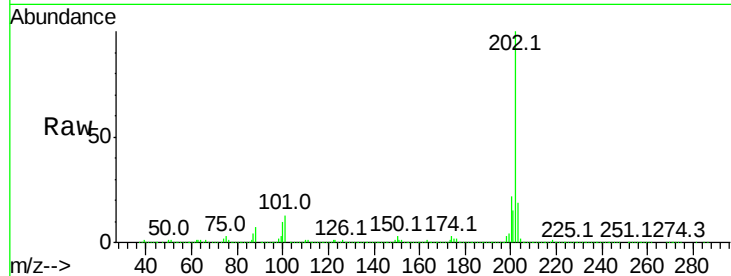
ClientSampleId :

SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.5  | 0.0   | 29.5  |
| 203     | 18.7  | 0.0   | 37.8  |

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#75

Chrysene-d12

Concen: 20.00 ng

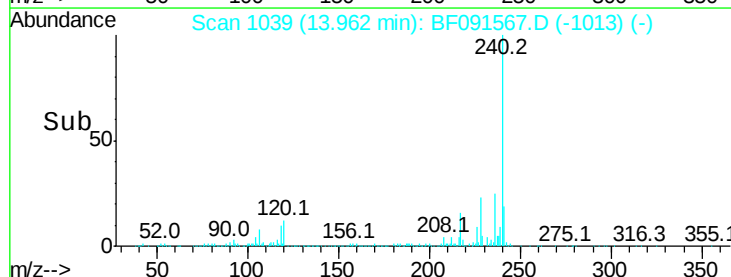
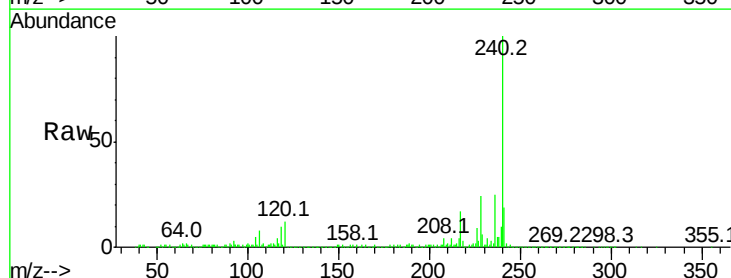
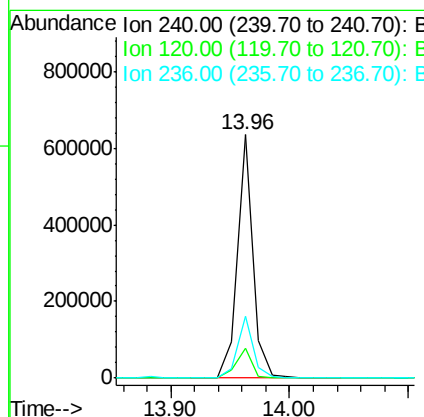
RT: 13.96 min Scan# 1039

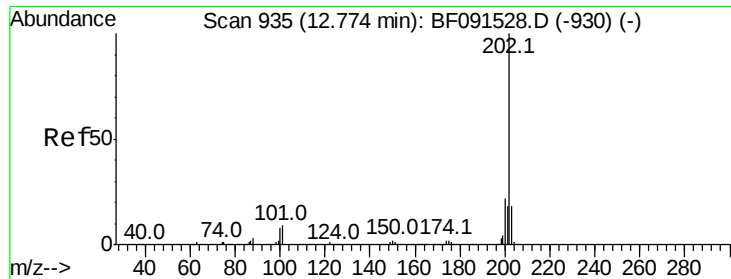
Delta R.T. 0.00 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.2  | 12.1  | 18.1  |
| 236     | 25.4  | 21.0  | 31.6  |





#77

Pvrene

Concen: 39.27 ng

RT: 12.77 min Scan# 935

Delta R.T. 0.00 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

Instrument :

BNA\_F

ClientSampleId :

SB-46(6-8)-12-8-16

Tot Ion:202 Resp: 1788225

Ion Ratio Lower Upper

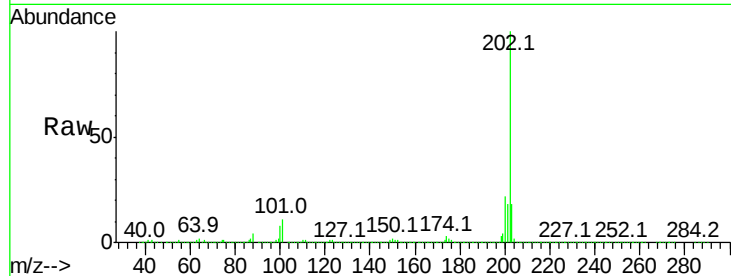
202 100

200 21.8 17.6 26.4

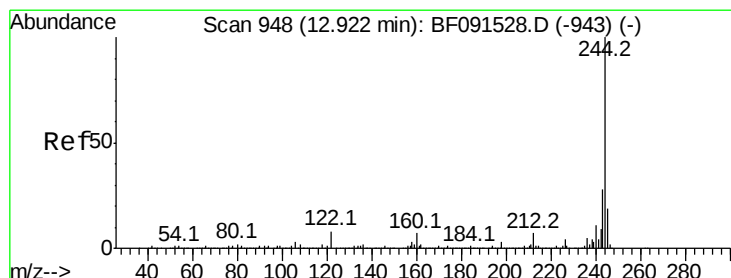
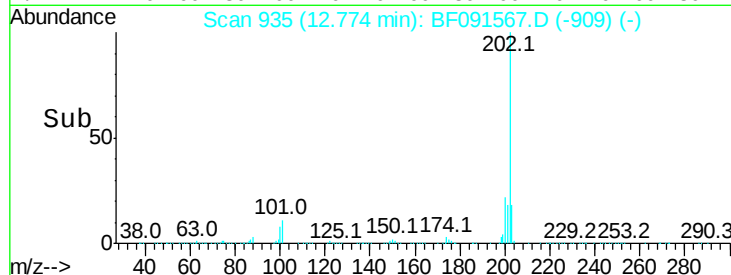
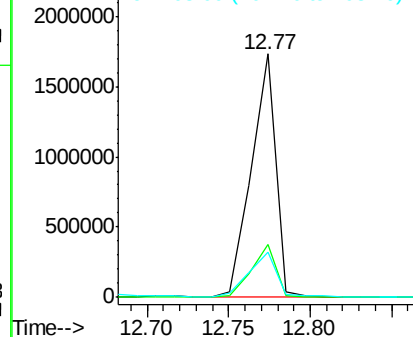
203 18.5 14.0 21.0

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 71.50 ng

RT: 12.92 min Scan# 948

Delta R.T. 0.00 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

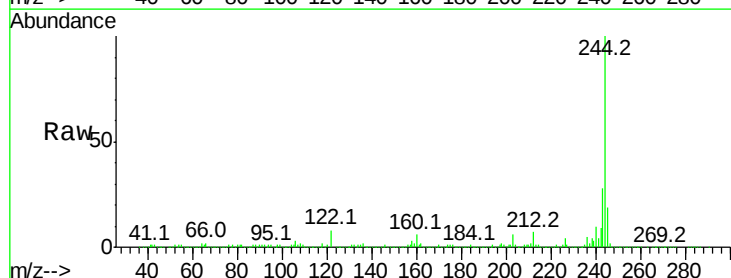
Tgt Ion:244 Resp: 1808535

Ion Ratio Lower Upper

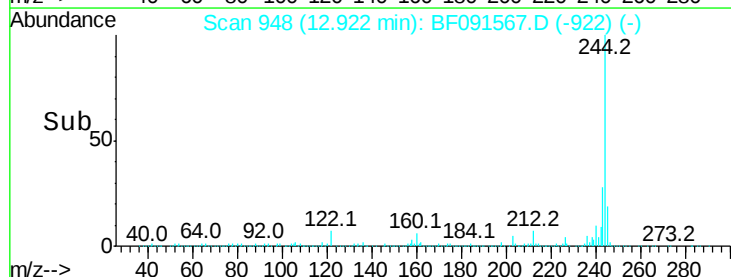
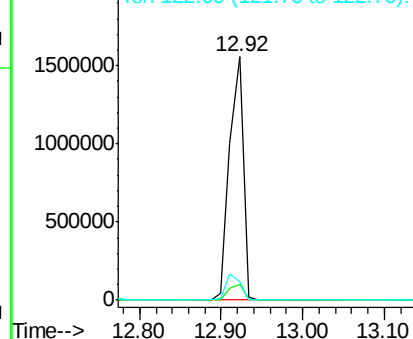
244 100

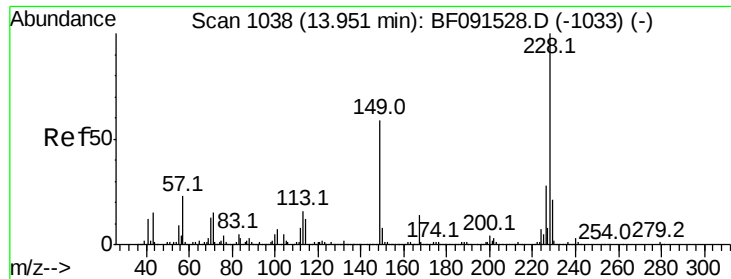
212 6.7 6.5 9.7

122 7.6 9.5 14.3#



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





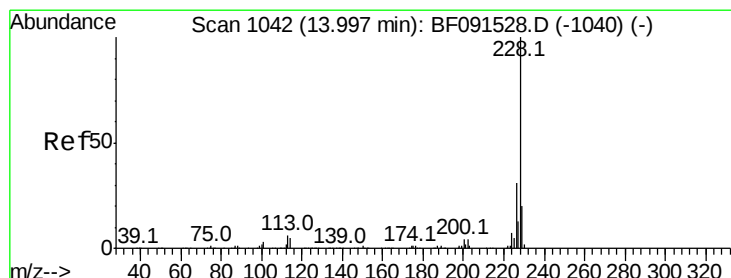
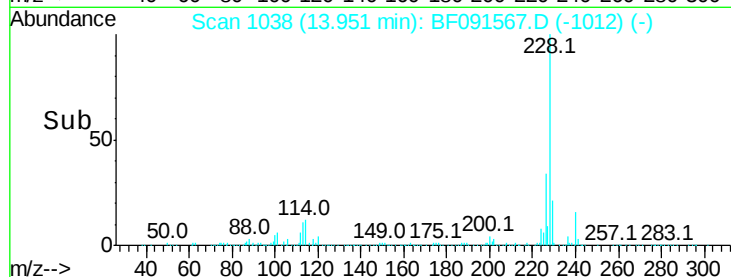
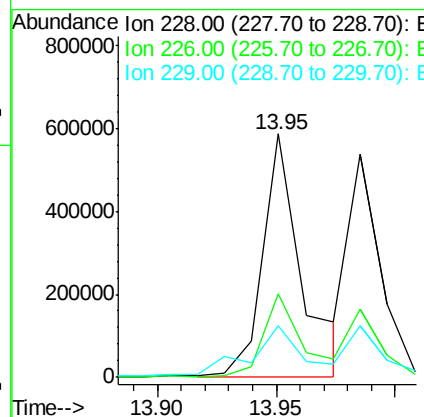
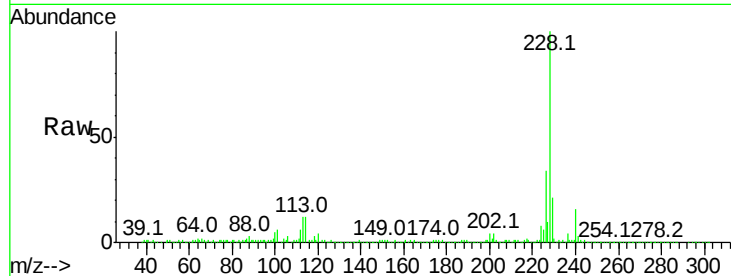
#80  
Benzo(a)anthracene  
Concen: 19.94 ng m  
RT: 13.95 min Scan# 1038  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.5  | 22.5  | 33.7# |
| 229     | 21.1  | 16.4  | 24.6  |

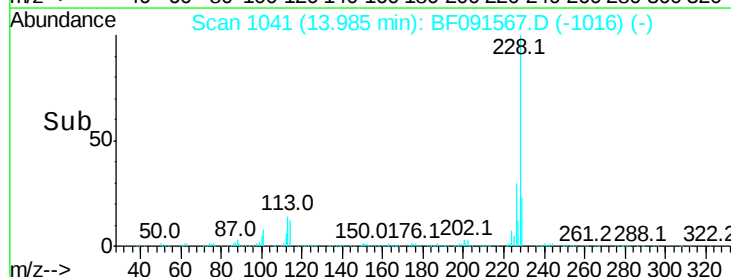
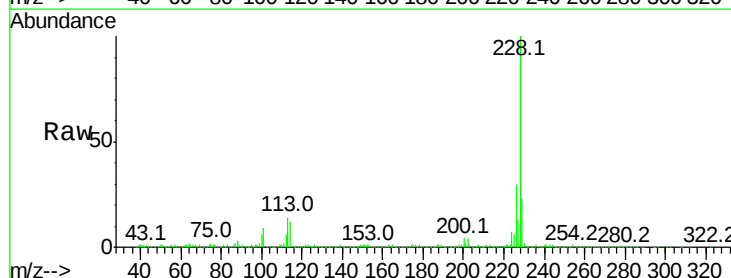
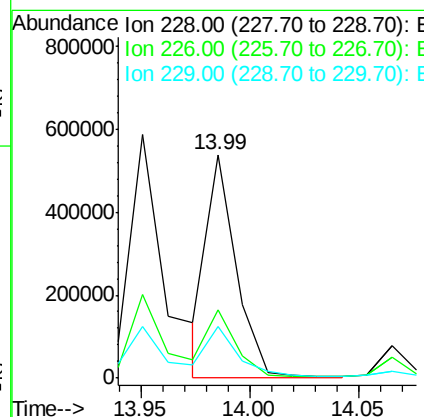
Manual Integrations  
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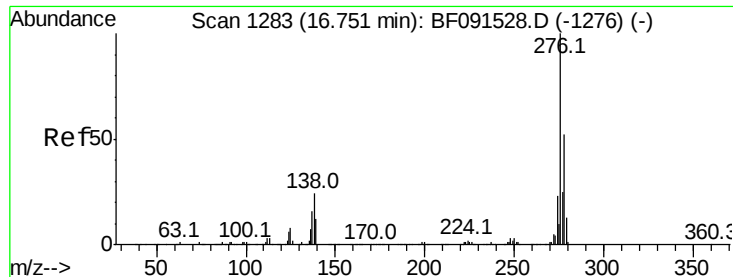
sohil  
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#82  
Chrysene  
Concen: 14.34 ng  
RT: 13.99 min Scan# 1041  
Delta R.T. -0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 25.0  | 37.4  |
| 229     | 23.4  | 16.0  | 24.0  |





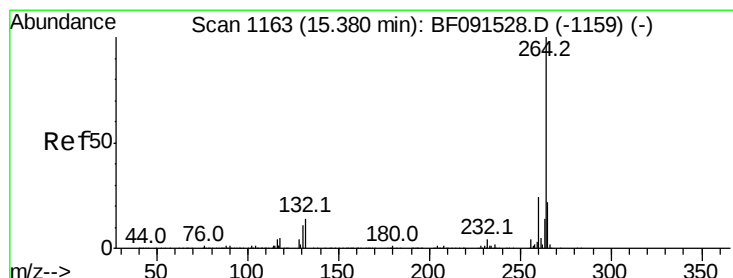
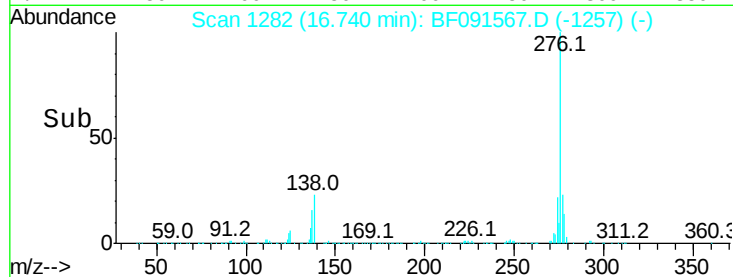
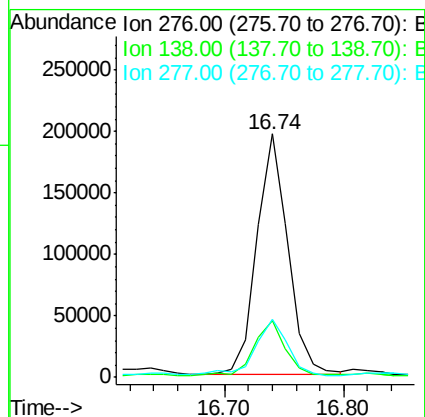
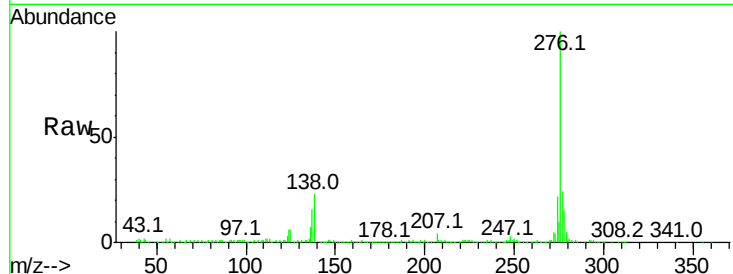
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 11.37 ng  
RT: 16.74 min Scan# 1282  
Delta R.T. -0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.4  | 21.0  | 31.4  |
| 277     | 24.3  | 20.2  | 30.2  |

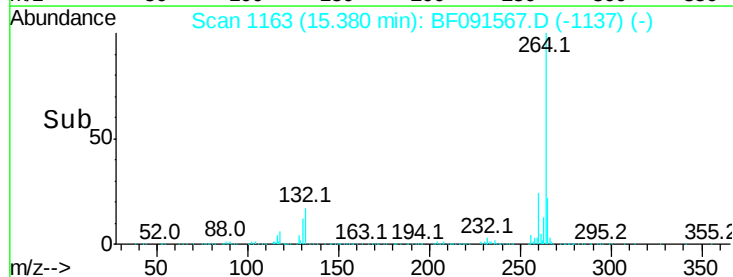
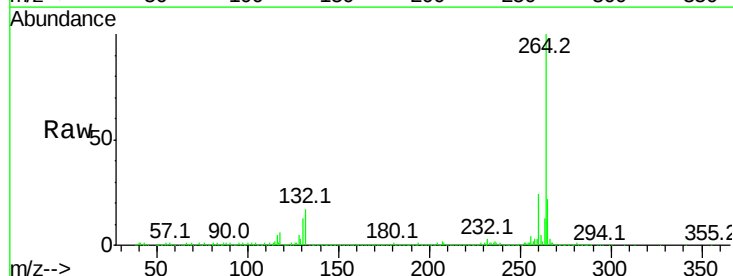
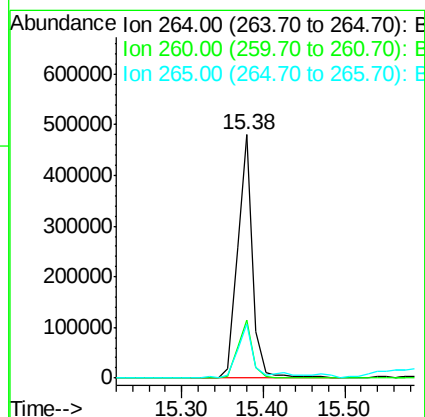
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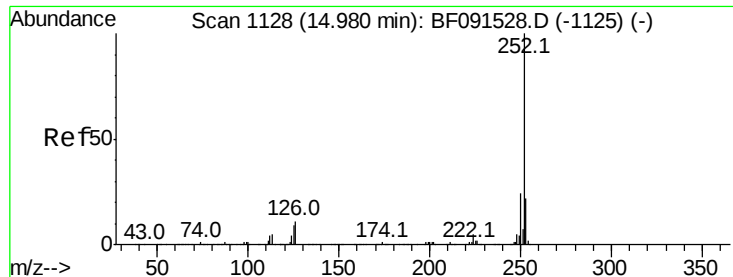
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.38 min Scan# 1163  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 18.8  | 28.2  |
| 265     | 22.2  | 17.0  | 25.6  |





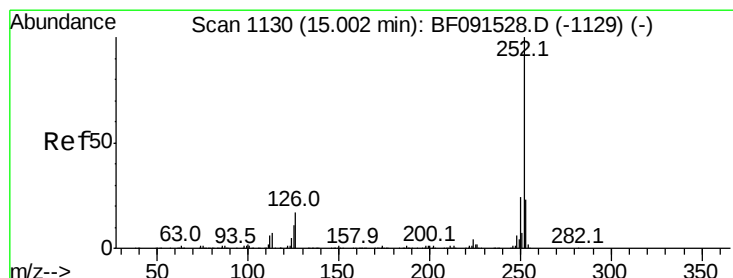
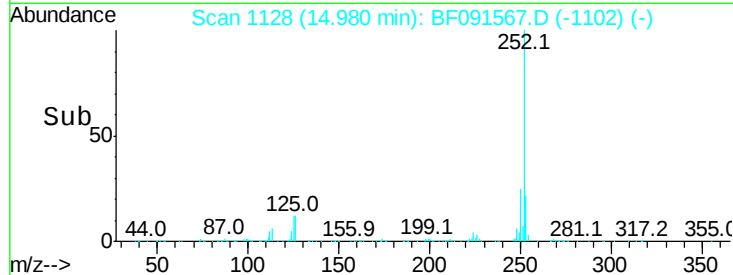
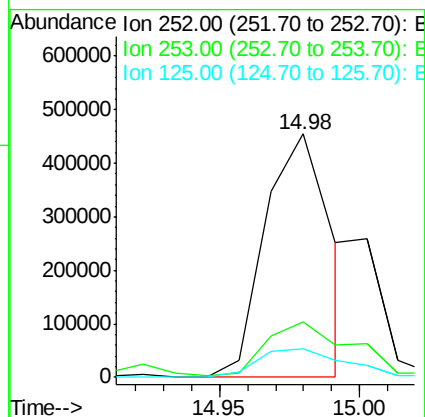
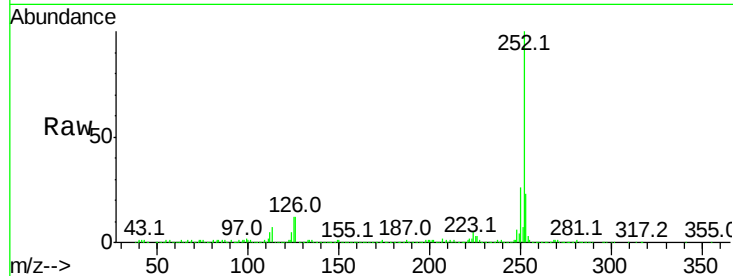
#87  
Benzo(b)fluoranthene  
Concen: 20.73 ng m  
RT: 14.98 min Scan# 1128  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.2  | 27.2  |
| 125     | 11.9  | 8.6   | 13.0  |

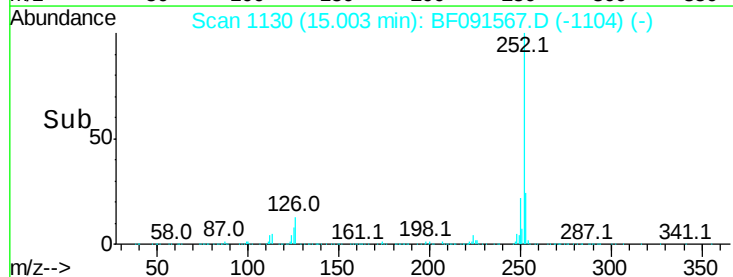
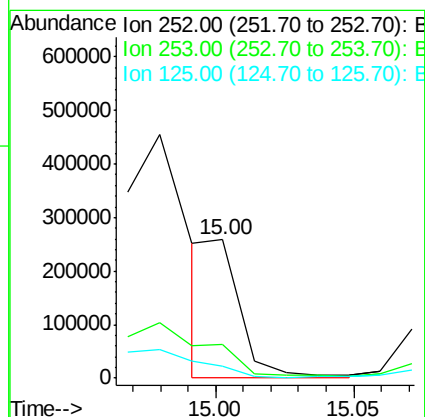
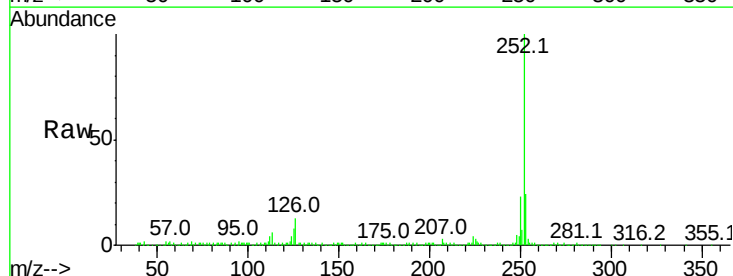
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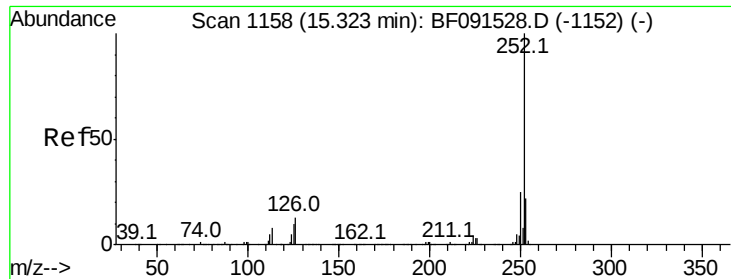
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#88  
Benzo(k)fluoranthene  
Concen: 6.75 ng m  
RT: 15.00 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 17.8  | 26.8  |
| 125     | 8.3   | 9.6   | 14.4# |





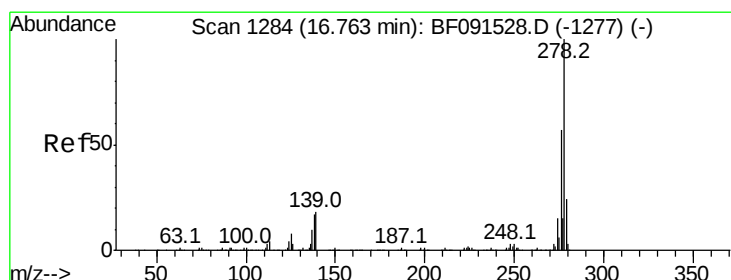
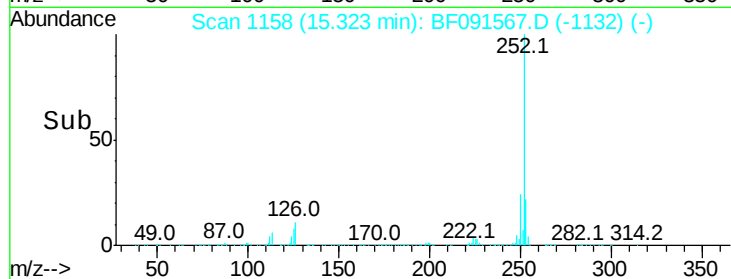
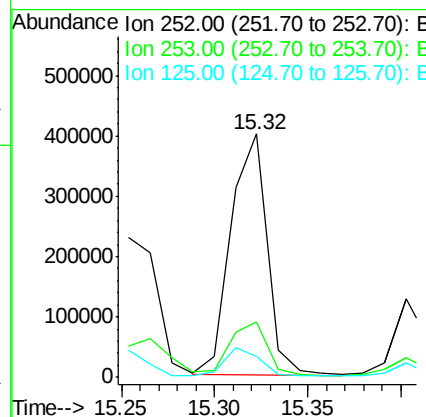
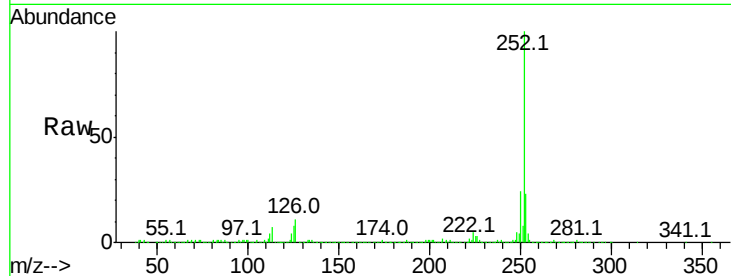
#89  
Benzo(a)pyrene  
Concen: 16.79 ng  
RT: 15.32 min Scan# 1158  
Delta R.T. 0.00 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46(6-8)-12-8-16

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 18.2  | 27.4  |
| 125     | 8.5   | 10.4  | 15.6  |

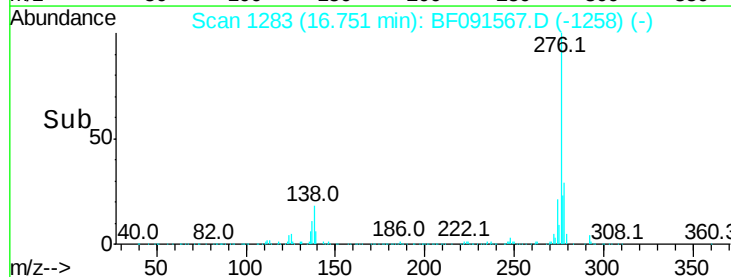
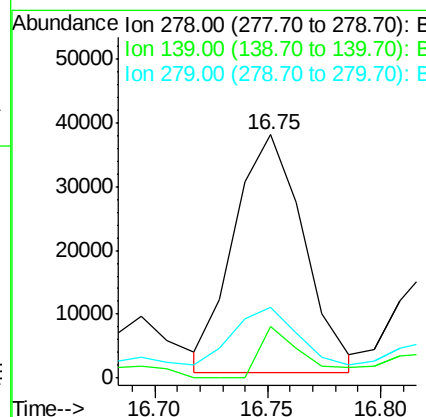
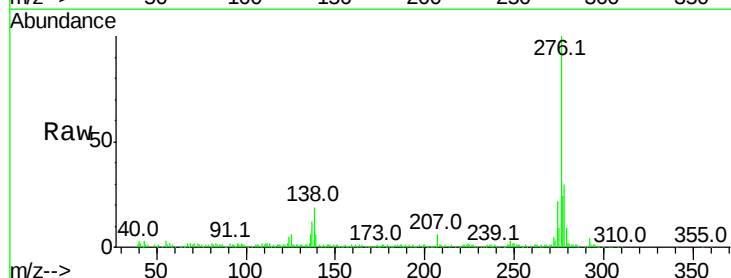
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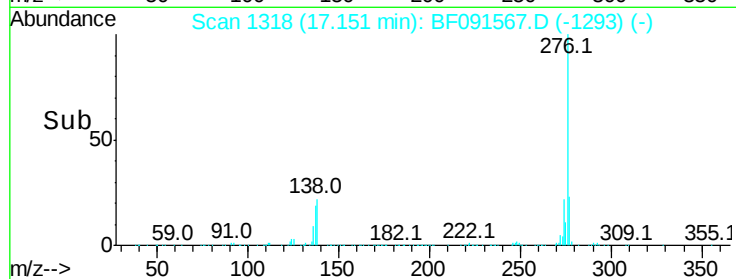
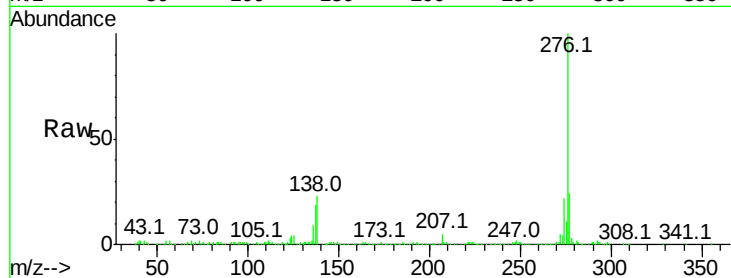
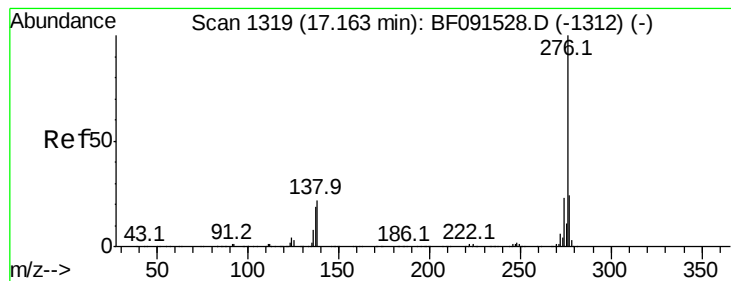
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#90  
Dibenzo(a,h)anthracene  
Concen: 2.78 ng m  
RT: 16.75 min Scan# 1283  
Delta R.T. -0.01 min  
Lab File: BF091567.D  
Acq: 13 Dec 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.3  | 15.1  | 22.7  |
| 279     | 29.0  | 19.0  | 28.6  |





#91

Benzo(a,h,i)perylene

Concen: 11.63 ng

RT: 17.15 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF091567.D

Acq: 13 Dec 2016 21:20

Instrument :

BNA\_F

ClientSampleId :

SB-46(6-8)-12-8-16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 343072 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 23.8  | 19.0  | 28.4   |
| 138       | 22.6  | 15.4  | 23.0   |

Manual Integrations  
APPROVED

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