

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030415\  
 Data File : BF077614.D  
 Acq On : 5 Mar 2015 9:15  
 Operator : TP/IZ  
 Sample : G1332-10  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

Manual Integrations  
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Quant Time: Mar 05 12:56:20 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 04 13:27:09 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.22  | 152  | 109974   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.80  | 136  | 439273   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.97 | 164  | 227879   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 12.82 | 188  | 432669   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 16.12 | 240  | 448966   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12               | 17.92 | 264  | 395972   | 20.00 | ng    | 0.06     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 481099   | 73.03 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.79  | 99   | 645779   | 76.24 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.91  | 82   | 380645   | 53.89 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 11.96 | 330  | 161325   | 73.52 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 10.15 | 172  | 736864   | 50.42 | ng    | 0.00     |
| 78) Terphenyl-d14              | 14.82 | 244  | 835334   | 43.50 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate          | 10.65 | 163  | 37853    | 2.36  | ng    | 98       |
| 70) Phenanthrene               | 12.84 | 178  | 114307   | 4.56  | ng    | 99       |
| 74) Fluoranthene               | 14.35 | 202  | 228016   | 8.32  | ng    | 98       |
| 77) Pyrene                     | 14.61 | 202  | 234915   | 8.55  | ng    | 99       |
| 80) Benzo(a)anthracene         | 16.11 | 228  | 119069   | 4.53  | ng    | 95       |
| 82) Chrysene                   | 16.15 | 228  | 135667m  | 5.49  | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 16.19 | 149  | 252424   | 13.93 | ng    | # 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 19.37 | 276  | 85797    | 3.05  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 17.45 | 252  | 197432m  | 8.57  | ng    |          |
| 88) Benzo(k)fluoranthene       | 17.48 | 252  | 54455m   | 2.41  | ng    |          |
| 89) Benzo(a)pyrene             | 17.85 | 252  | 114435   | 5.22  | ng    | # 85     |
| 91) Benzo(g,h,i)perylene       | 19.79 | 276  | 92764    | 4.39  | ng    | 96       |

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

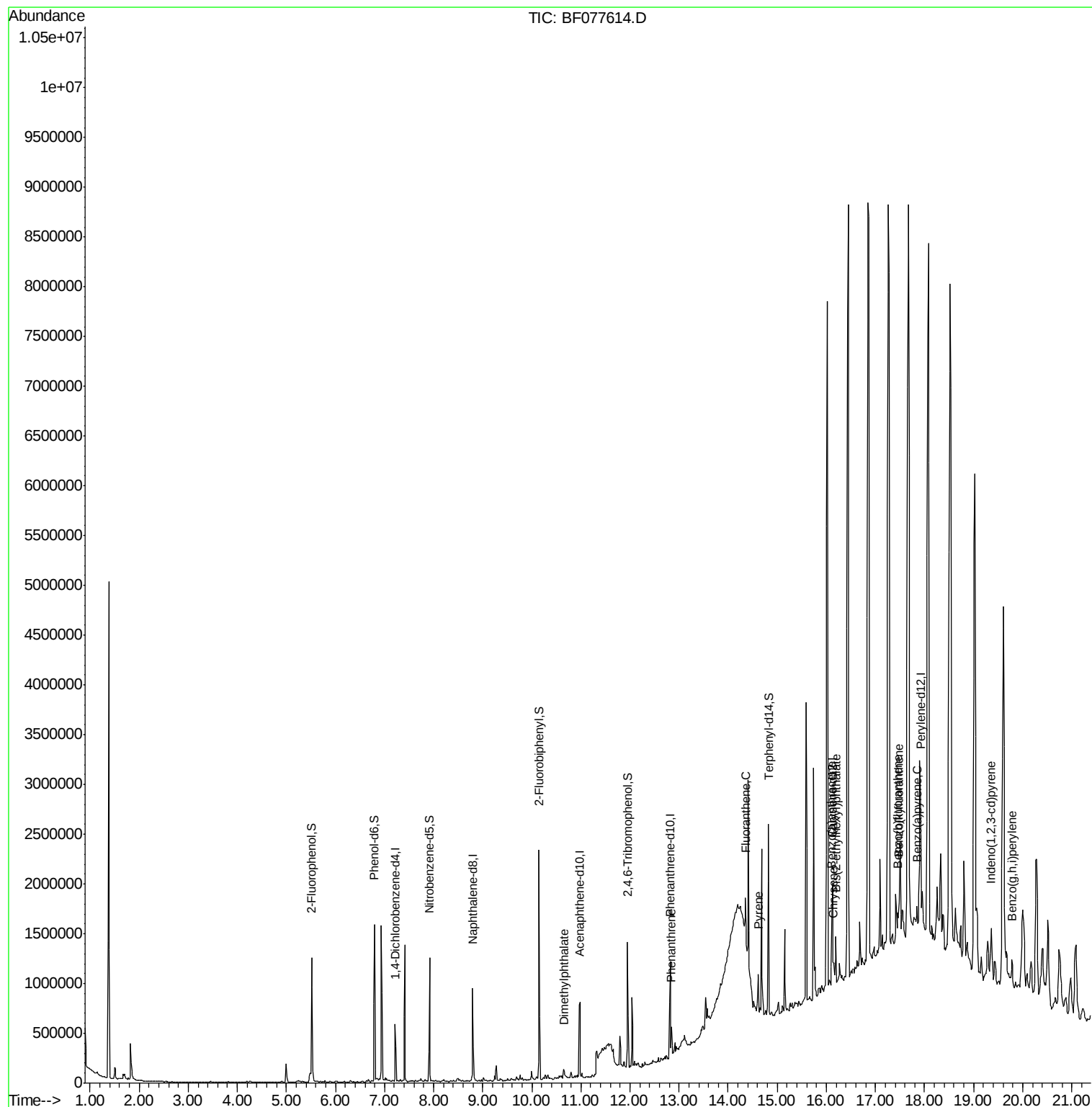
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030415\  
Data File : BF077614.D  
Acq On : 5 Mar 2015 9:15  
Operator : TP/IZ  
Sample : G1332-10  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

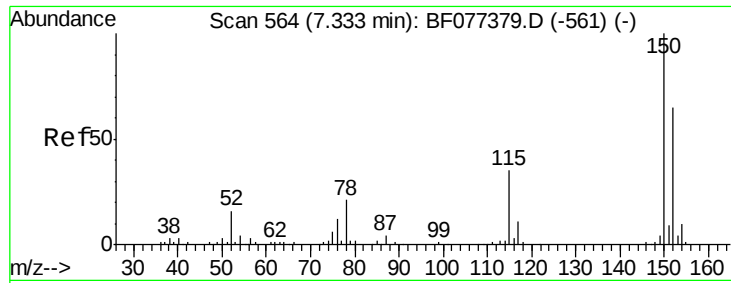
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

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Quant Time: Mar 05 12:56:20 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 04 13:27:09 2015  
Response via : Initial Calibration





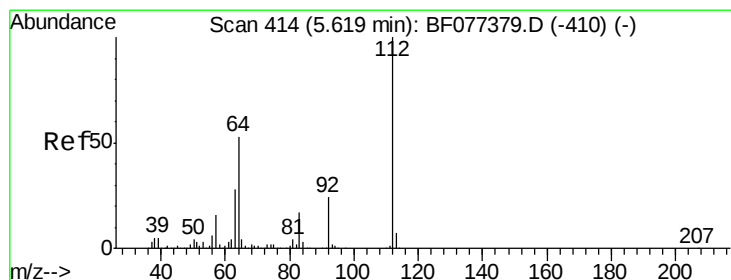
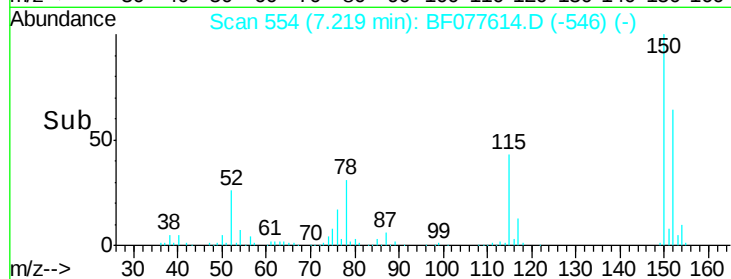
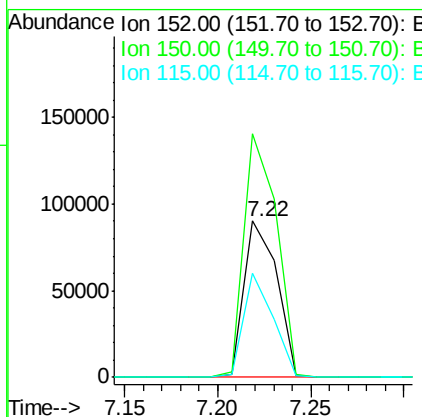
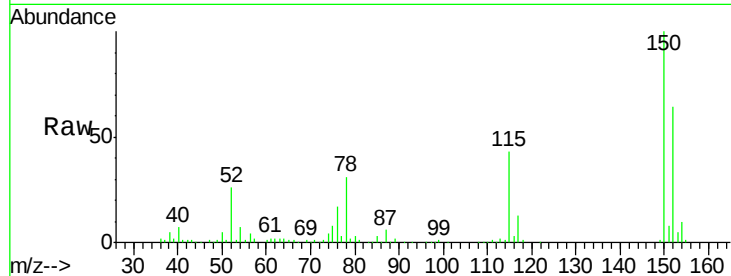
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.22 min Scan# 554  
 Delta R.T. -0.00 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 109974 |       |       |
| 150     | 155.9 | 124.0  | 186.0 |       |
| 115     | 66.8  | 49.4   | 74.2  |       |

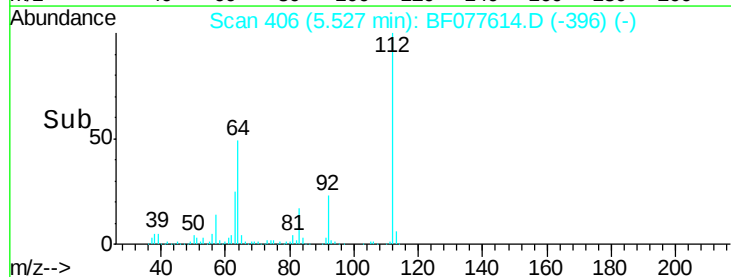
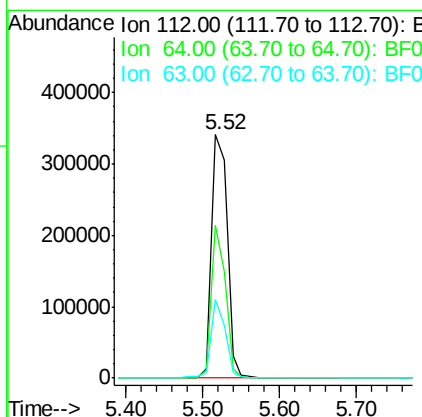
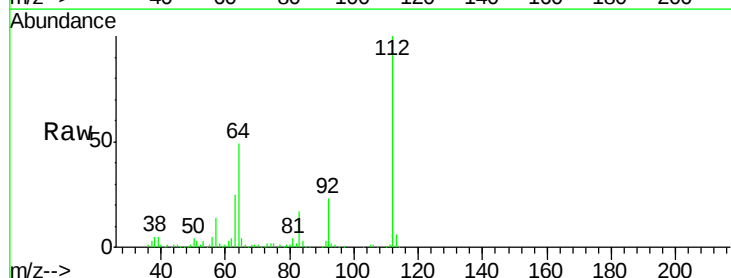
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#5  
 2-Fluorophenol  
 Concen: 73.03 ng  
 RT: 5.52 min Scan# 406  
 Delta R.T. 0.01 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 481099 |       |       |
| 64      | 48.9  | 48.5   | 72.7  |       |
| 63      | 24.6  | 25.0   | 37.4  |       |





#7

Phenol-d6

Concen: 76.24 ng

RT: 6.79 min Scan# 517

Delta R.T. 0.01 min

Lab File: BF077614.D

Acq: 5 Mar 2015 9:15

Instrument :

BNA\_F

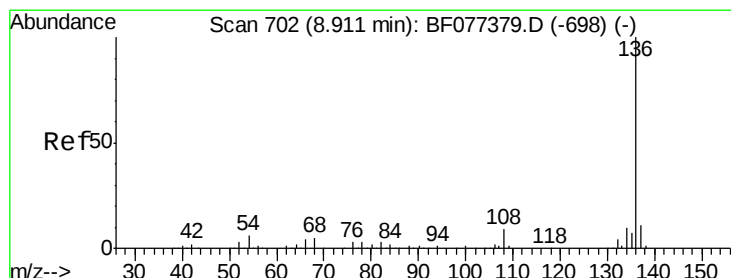
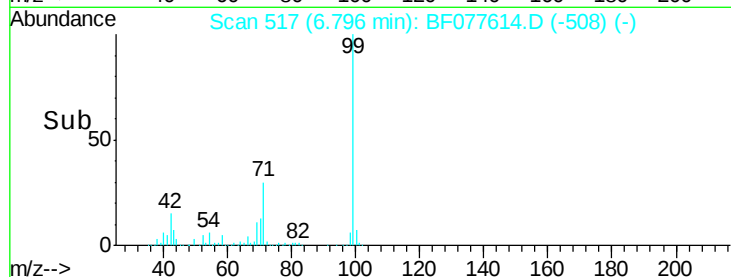
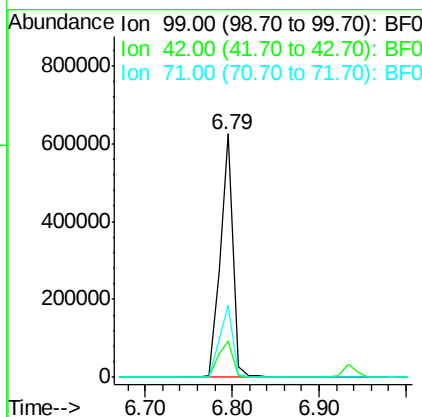
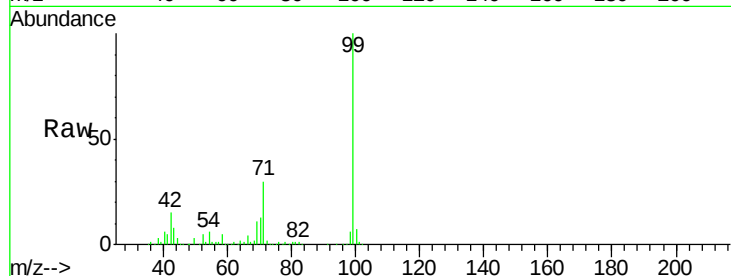
ClientSampleId :

SP-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 645779 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.0  | 16.2  | 24.4#  |
| 71        | 29.8  | 26.7  | 40.1   |

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#21

Naphthalene-d8

Concen: 20.00 ng

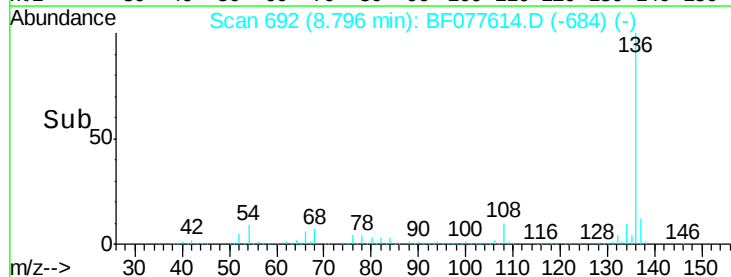
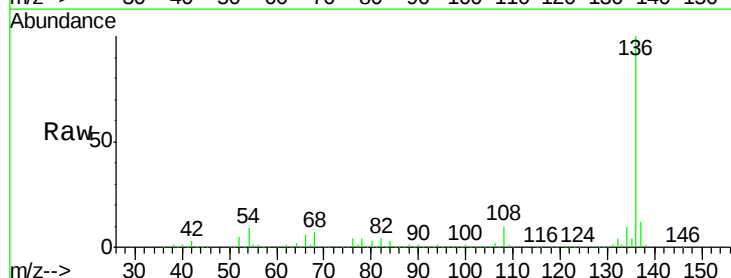
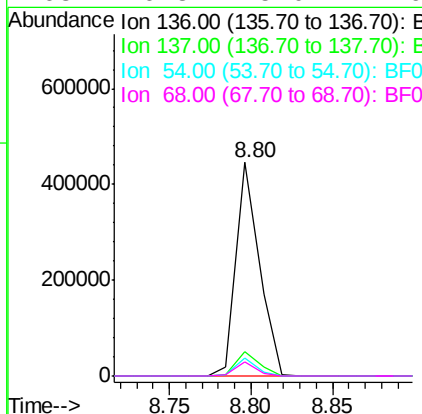
RT: 8.80 min Scan# 692

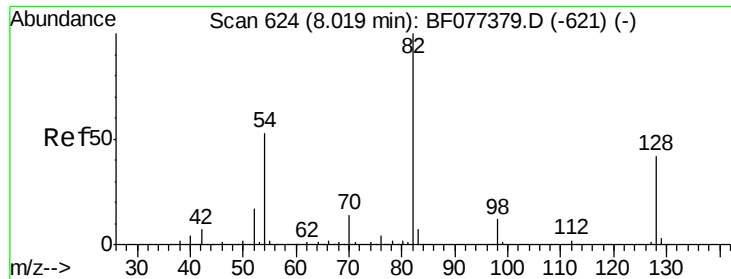
Delta R.T. -0.00 min

Lab File: BF077614.D

Acq: 5 Mar 2015 9:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 439273 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.6  | 8.6   | 13.0   |
| 54        | 8.7   | 6.2   | 9.4    |
| 68        | 6.8   | 5.0   | 7.6    |





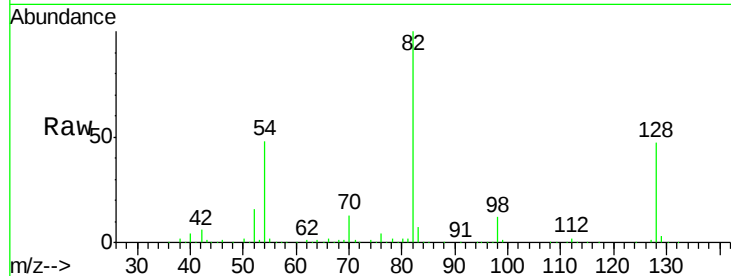
#23  
 Nitrobenzene-d5  
 Concen: 53.89 ng  
 RT: 7.91 min Scan# 615  
 Delta R.T. -0.00 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-1

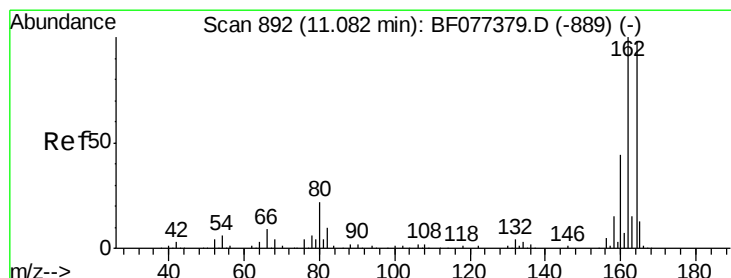
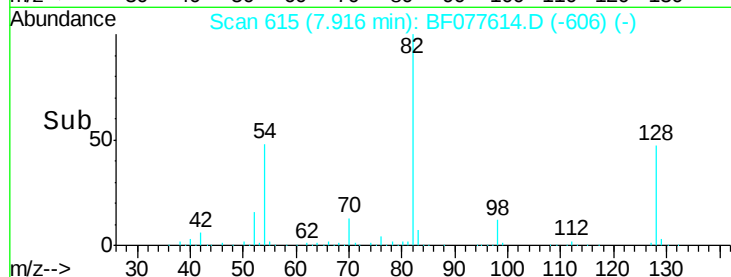
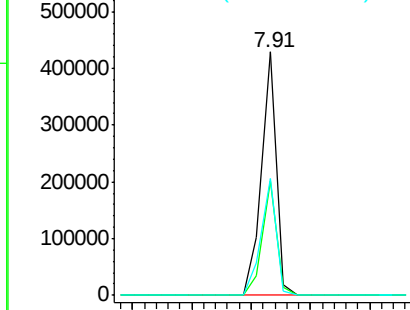
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 380645 |       |       |
| 128     | 47.0  | 43.8   | 65.8  |       |
| 54      | 48.2  | 36.7   | 55.1  |       |

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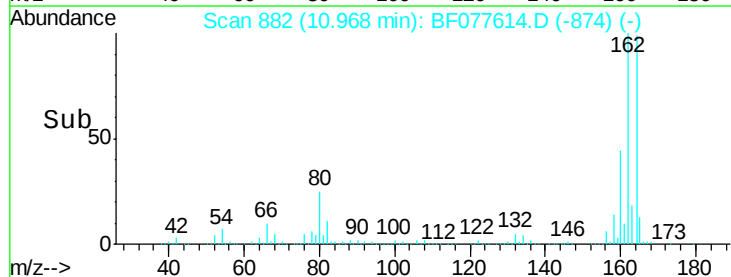
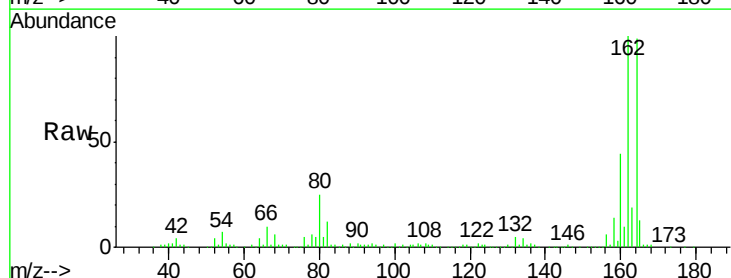
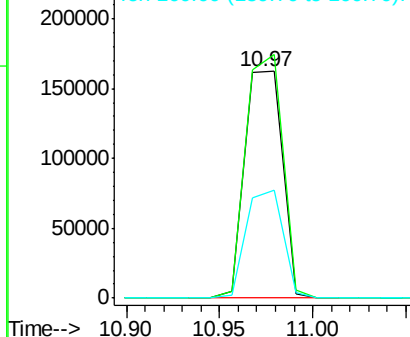
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.97 min Scan# 882  
 Delta R.T. -0.00 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 227879 |       |       |
| 162     | 101.3 | 83.2   | 124.8 |       |
| 160     | 44.3  | 34.6   | 52.0  |       |

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





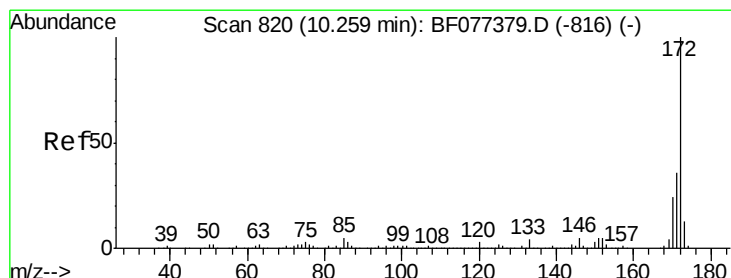
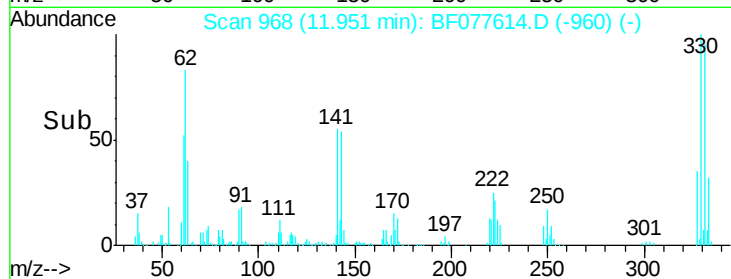
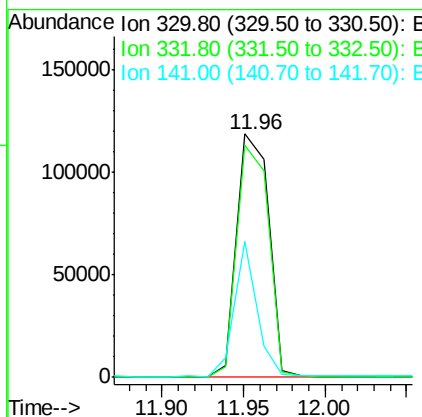
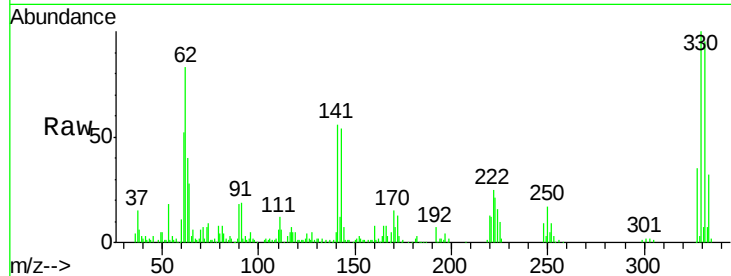
#41  
 2,4,6-Tribromophenol  
 Concen: 73.52 ng  
 RT: 11.96 min Scan# 968  
 Delta R.T. 0.00 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 161325 |       |       |
| 332     | 95.0  | 77.4   | 116.2 |       |
| 141     | 38.6  | 28.8   | 43.2  |       |

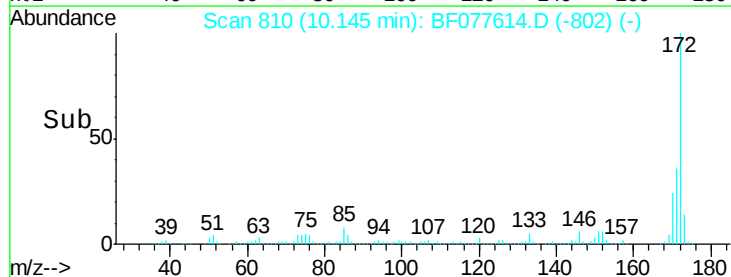
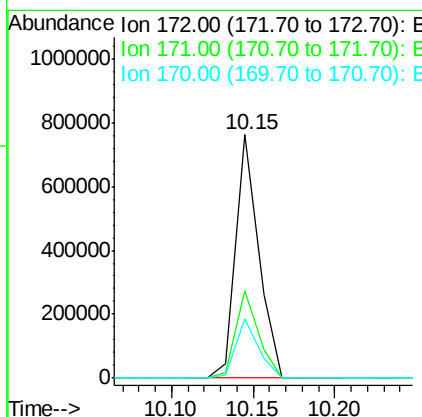
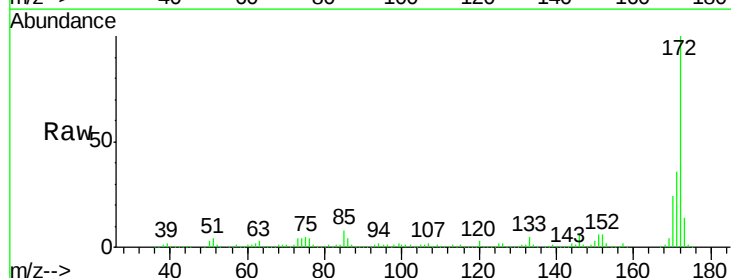
Manual Integrations  
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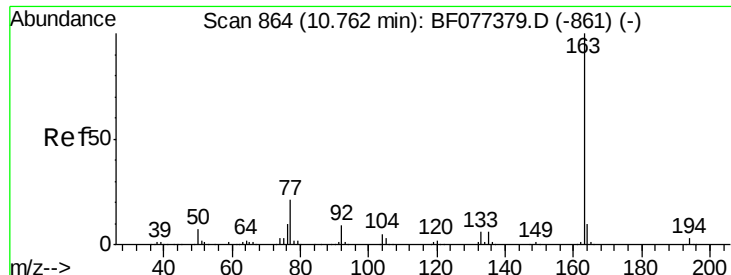
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#44  
 2-Fluorobiphenyl  
 Concen: 50.42 ng  
 RT: 10.15 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 736864 |       |       |
| 171     | 35.8  | 28.9   | 43.3  |       |
| 170     | 24.4  | 19.4   | 29.2  |       |





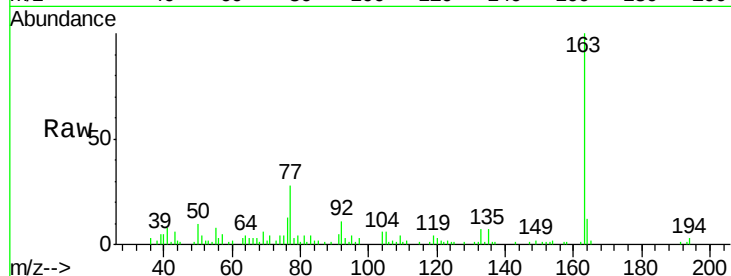
#49  
Dimethylphthalate  
Concen: 2.36 ng  
RT: 10.65 min Scan# 854  
Delta R.T. -0.01 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

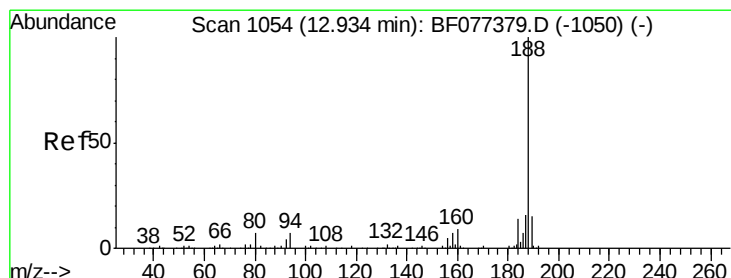
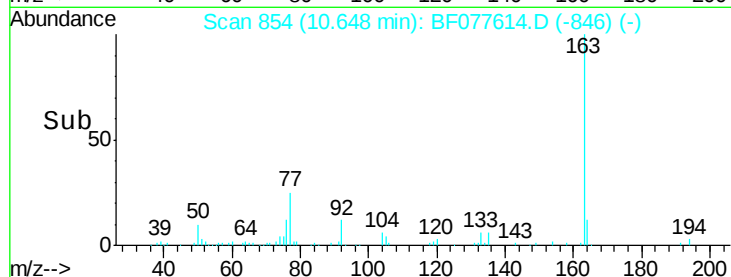
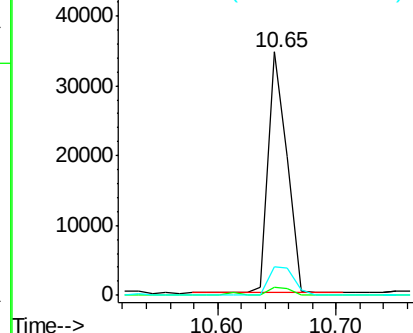
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 3.3   | 2.6        | 4.0        |
| 164     | 11.8  | 8.6        | 13.0       |

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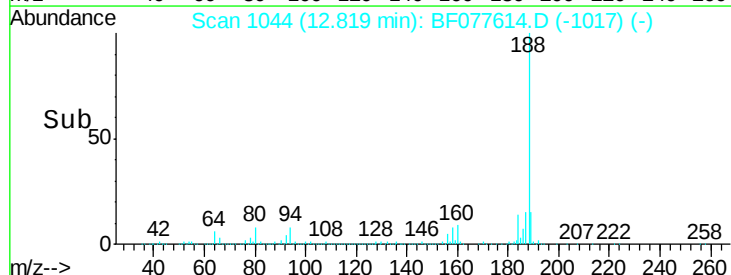
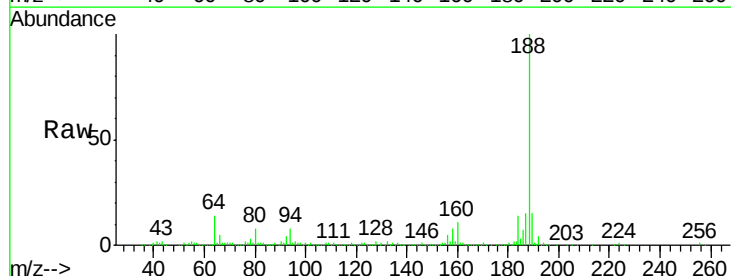
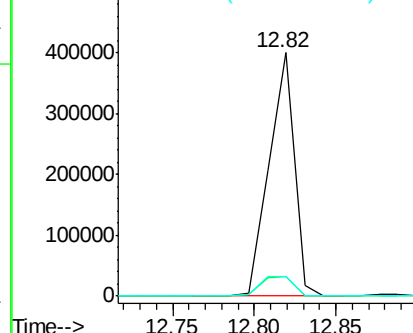
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

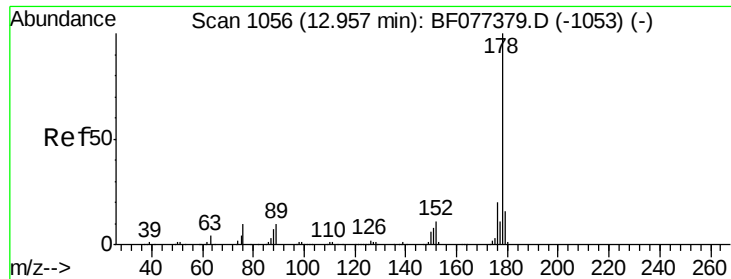


#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.82 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 8.1   | 7.4        | 11.2       |
| 80      | 8.1   | 8.0        | 12.0       |

Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0





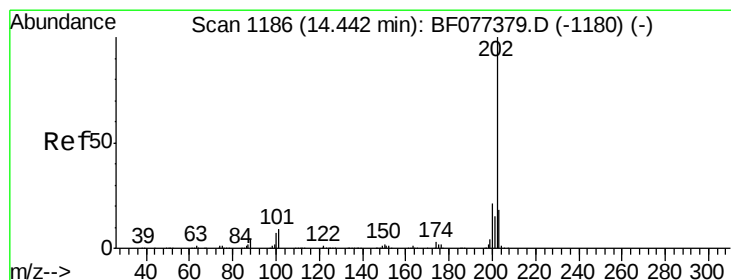
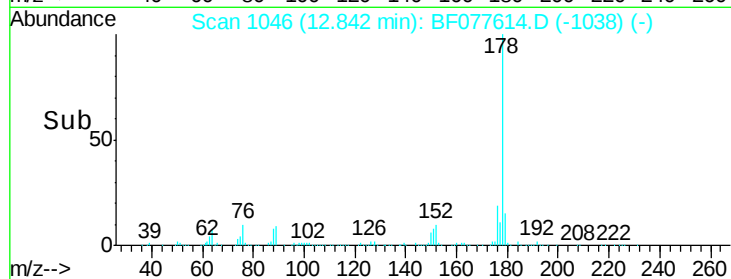
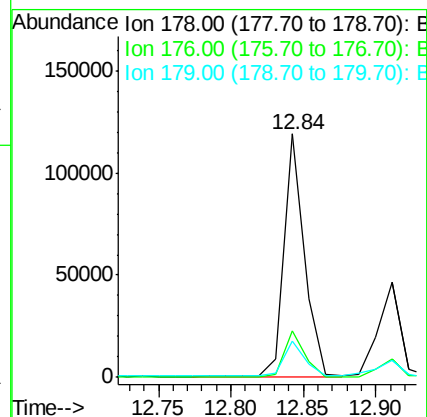
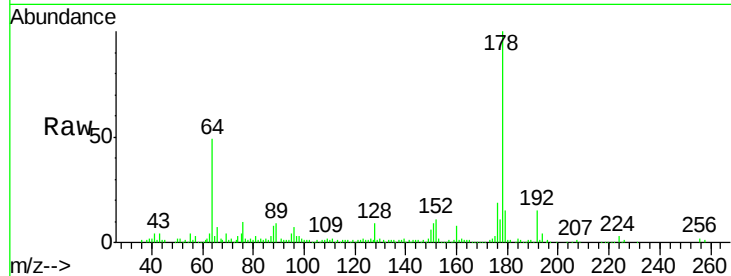
#70  
Phenanthrene  
Concen: 4.56 ng  
RT: 12.84 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.5  | 23.3  |
| 179     | 15.2  | 12.2  | 18.2  |

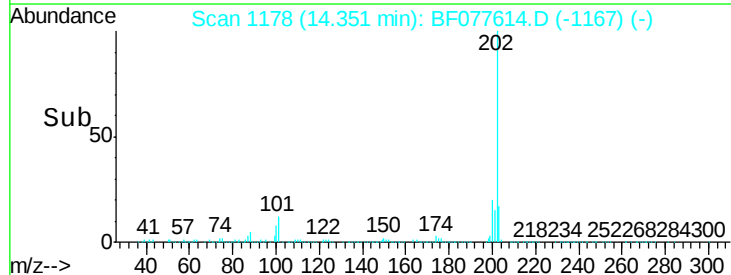
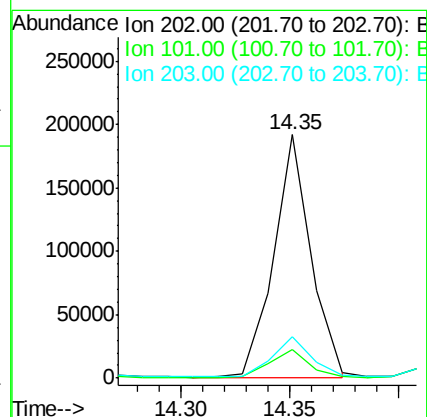
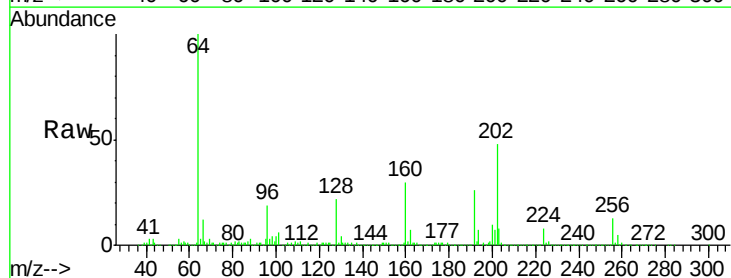
Manual Integrations  
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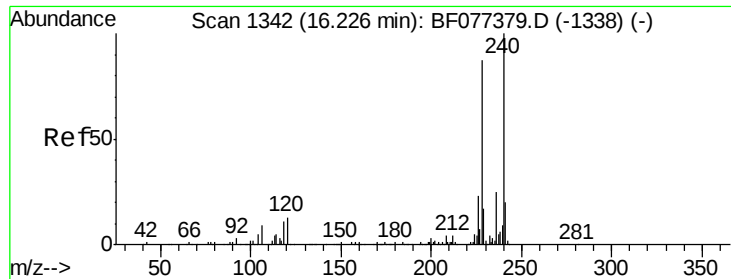
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3/5/2015 2:11:45 PM



#74  
Fluoranthene  
Concen: 8.32 ng  
RT: 14.35 min Scan# 1178  
Delta R.T. 0.03 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.0  | 0.0   | 30.8  |
| 203     | 17.2  | 0.0   | 37.7  |





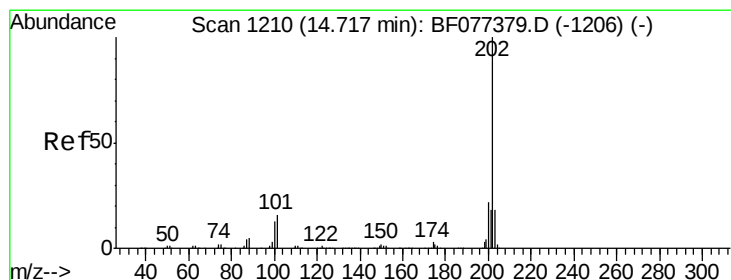
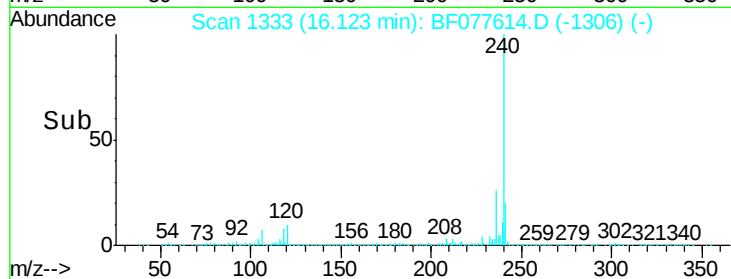
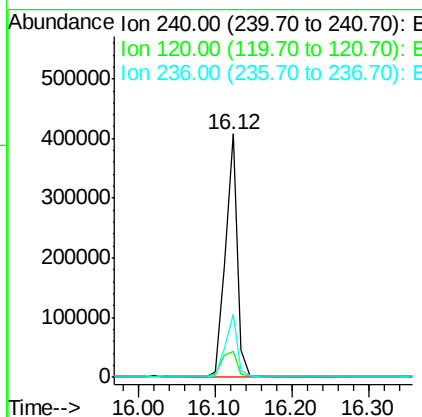
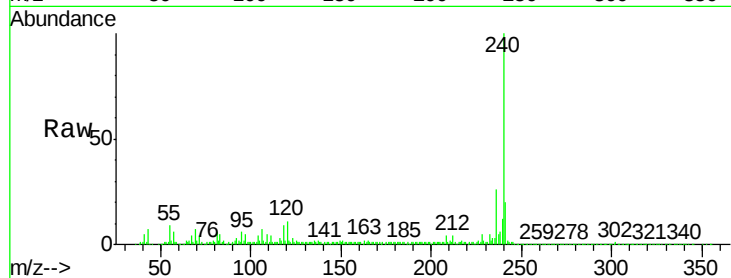
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 16.12 min Scan# 1333  
Delta R.T. 0.01 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

Instrument :  
BNA\_F  
ClientSampled :  
SP-1

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 10.9  | 8.8        | 13.2       |
| 236     | 26.0  | 20.7       | 31.1       |

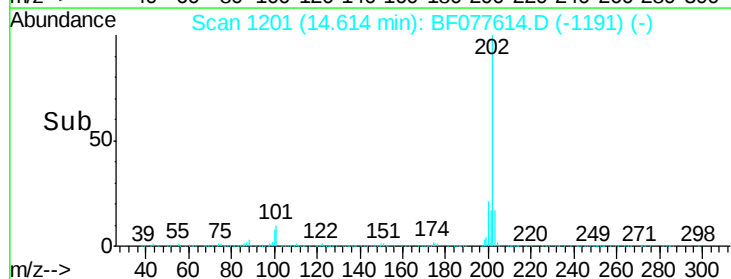
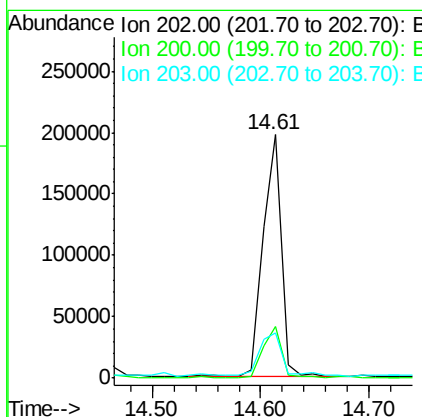
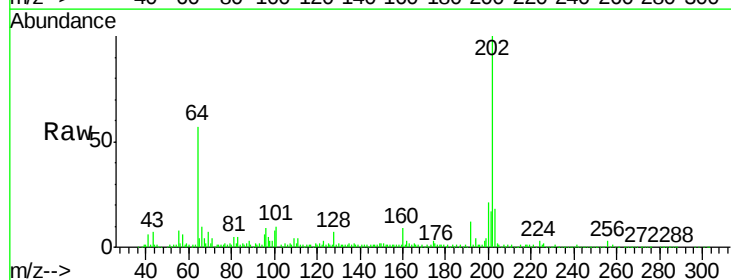
Manual Integrations  
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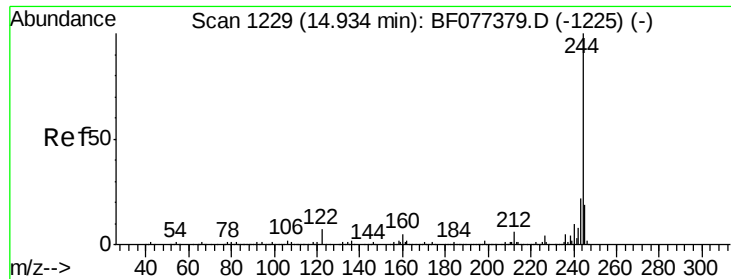
mohammad  
3/5/2015 2:11:45 PM



#77  
Pyrene  
Concen: 8.55 ng  
RT: 14.61 min Scan# 1201  
Delta R.T. 0.01 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 21.1  | 17.1       | 25.7       |
| 203     | 18.4  | 14.2       | 21.2       |





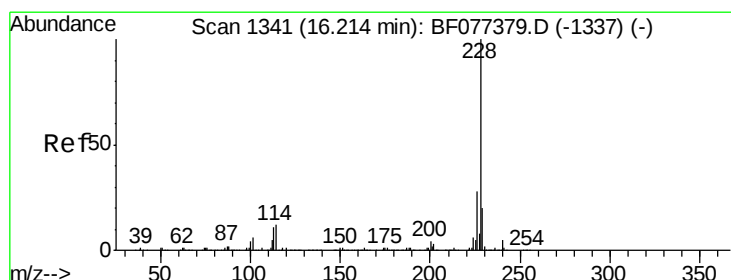
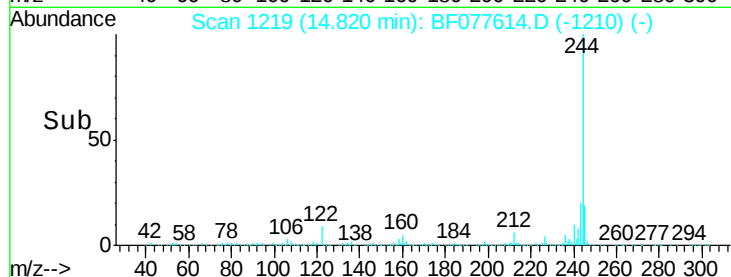
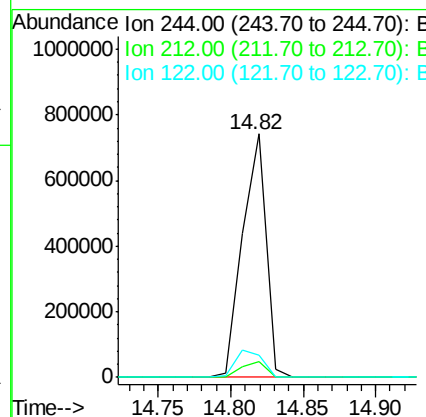
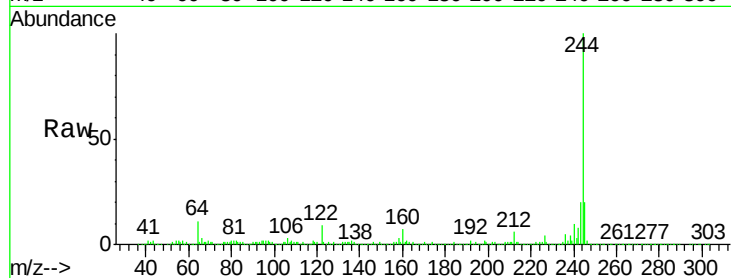
#78  
 Terphenyl-d14  
 Concen: 43.50 ng  
 RT: 14.82 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-1

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 6.4   | 5.2        | 7.8        |
| 122     | 9.0   | 7.8        | 11.8       |

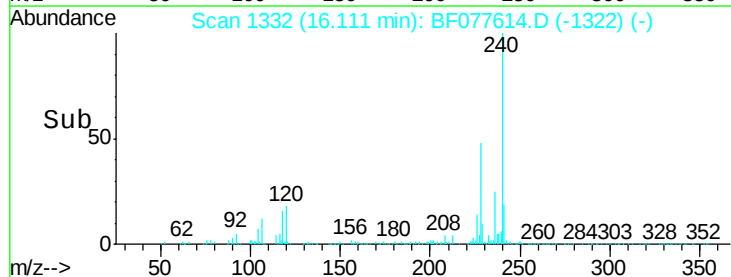
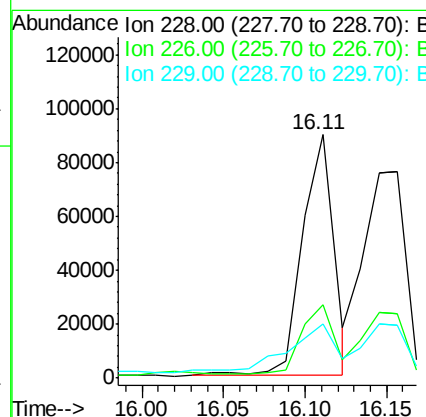
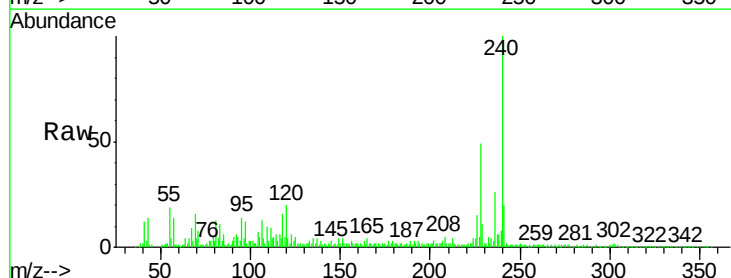
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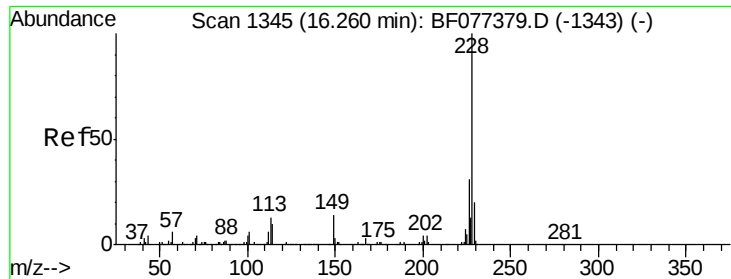
mohammad  
 3/5/2015 2:11:45 PM



#80  
 Benzo(a)anthracene  
 Concen: 4.53 ng  
 RT: 16.11 min Scan# 1332  
 Delta R.T. 0.01 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 226     | 30.2  | 22.0       | 33.0       |
| 229     | 22.5  | 15.8       | 23.8       |





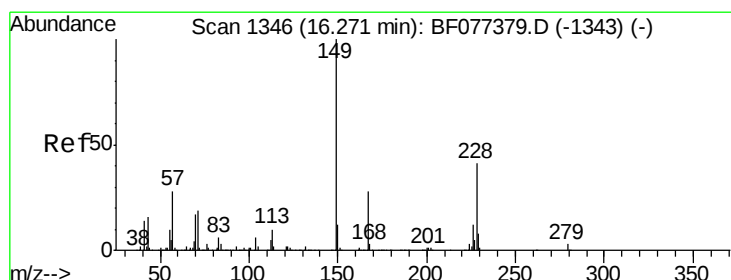
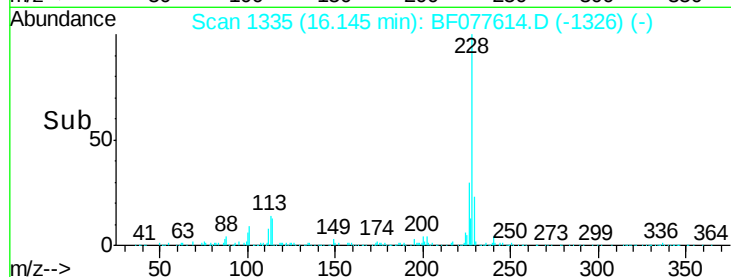
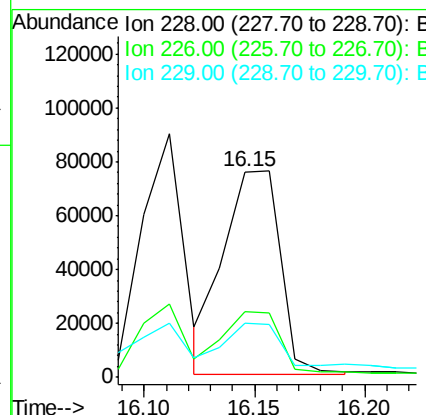
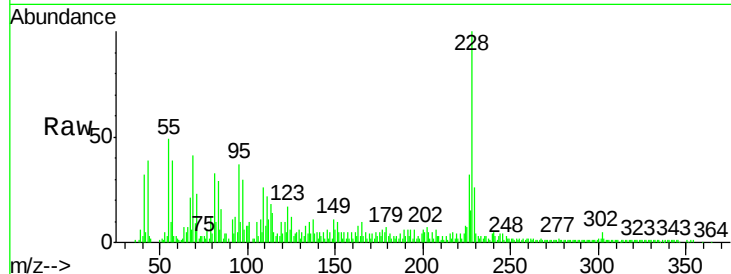
#82  
Chrysene  
Concen: 5.49 ng m  
RT: 16.15 min Scan# 1335  
Delta R.T. 0.00 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 24.9  | 37.3  |
| 229     | 26.2  | 16.4  | 24.6  |

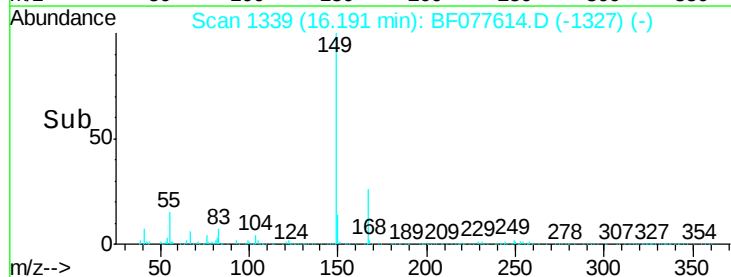
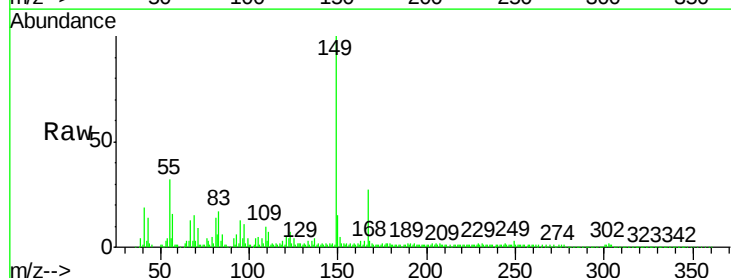
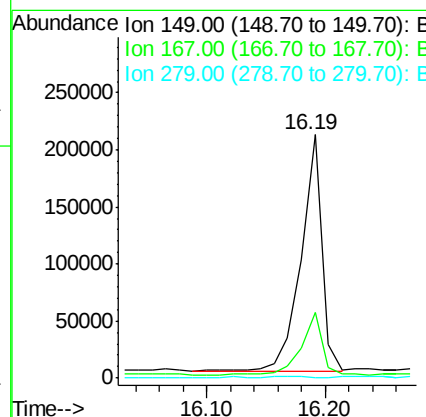
Manual Integrations  
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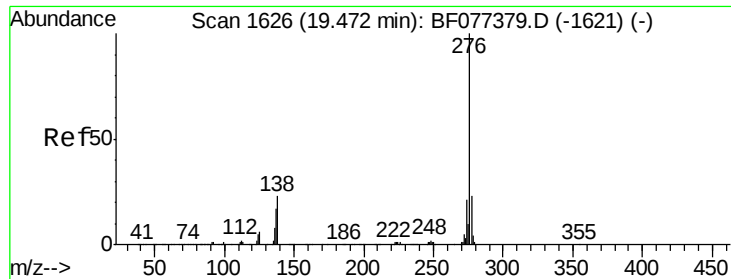
mohammad  
3/5/2015 2:11:45 PM



#83  
Bis(2-ethylhexyl)phthalate  
Concen: 13.93 ng  
RT: 16.19 min Scan# 1339  
Delta R.T. 0.03 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.0  | 22.8  | 34.2  |
| 279     | 0.4   | 3.8   | 5.6   |





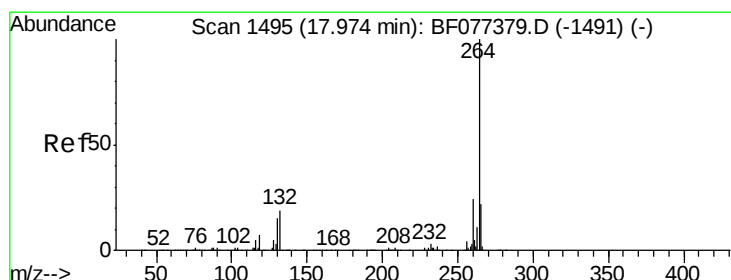
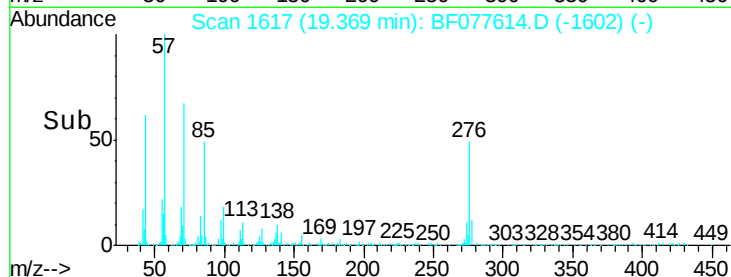
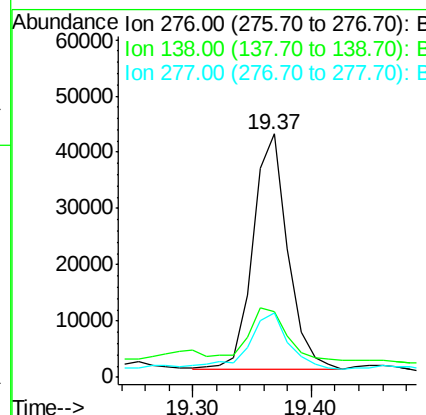
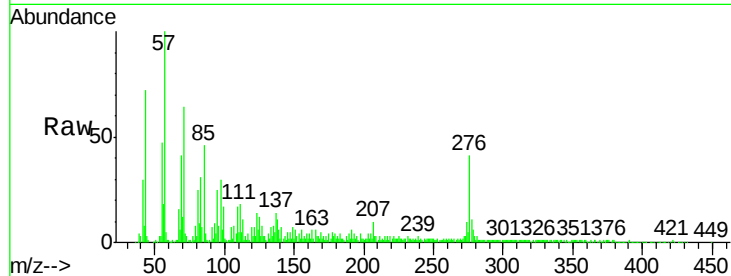
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.05 ng  
 RT: 19.37 min Scan# 1617  
 Delta R.T. 0.07 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 85797 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.9  | 21.2  | 31.8  |
| 277       | 27.3  | 20.0  | 30.0  |

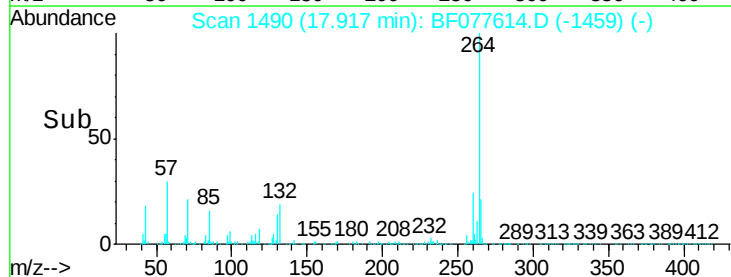
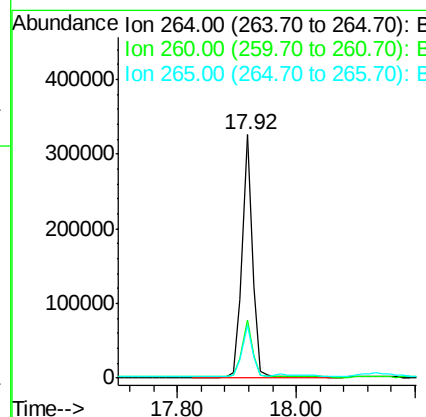
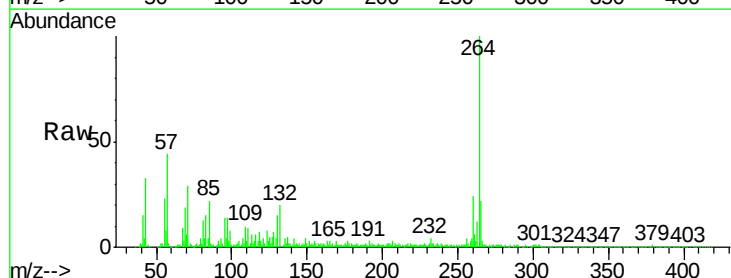
Manual Integrations  
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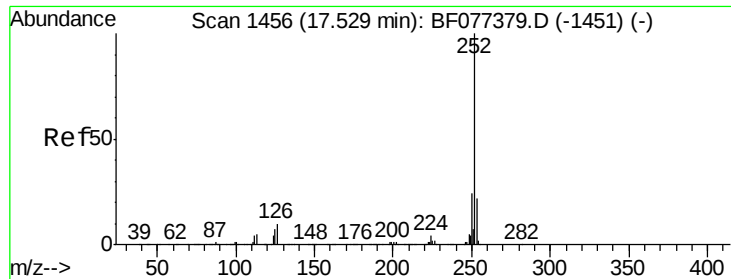
mohammad  
 3/5/2015 2:11:45 PM



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 17.92 min Scan# 1490  
 Delta R.T. 0.06 min  
 Lab File: BF077614.D  
 Acq: 5 Mar 2015 9:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 395972 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.1  | 19.3  | 28.9   |
| 265       | 21.8  | 16.8  | 25.2   |





#87

Benzo(b)fluoranthene

Concen: 8.57 ng m

RT: 17.45 min Scan# 1449

Delta R.T. 0.04 min

Lab File: BF077614.D

Acq: 5 Mar 2015 9:15

Instrument :

BNA\_F

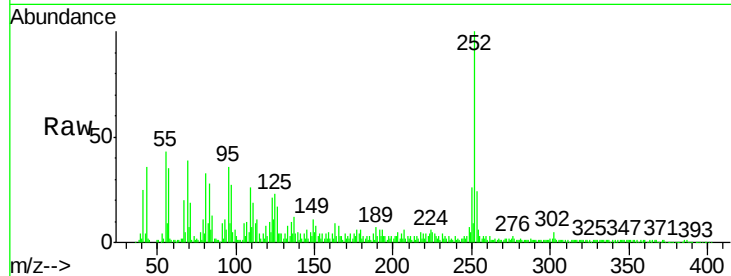
ClientSampleId :

SP-1

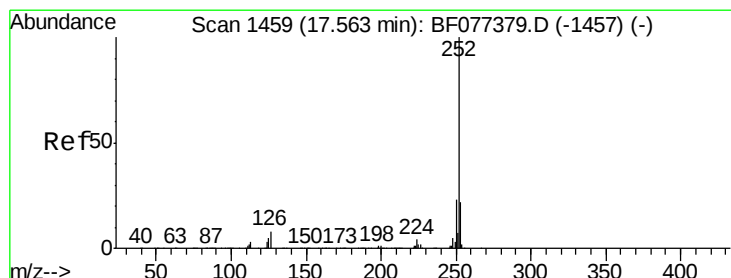
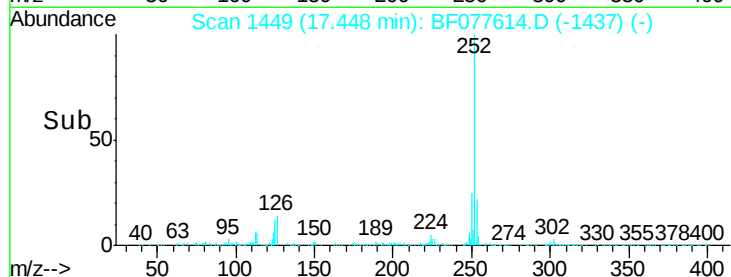
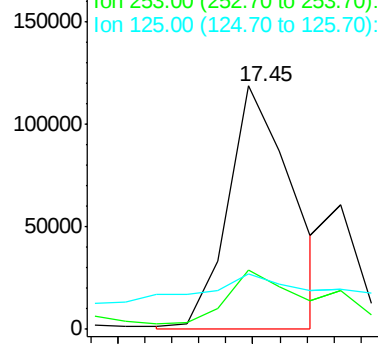
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 197432 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.4  | 17.6  | 26.4   |
| 125       | 22.6  | 5.4   | 8.2#   |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 2.41 ng m

RT: 17.48 min Scan# 1452

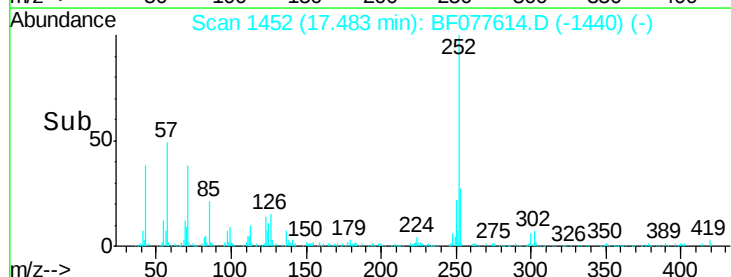
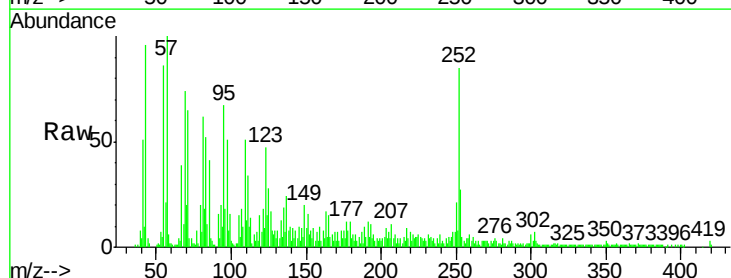
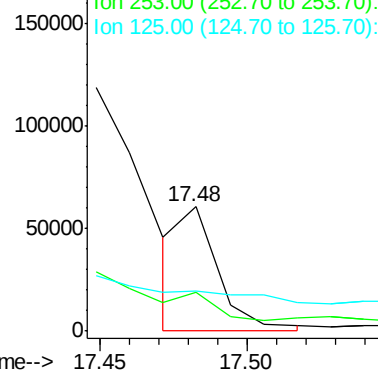
Delta R.T. 0.04 min

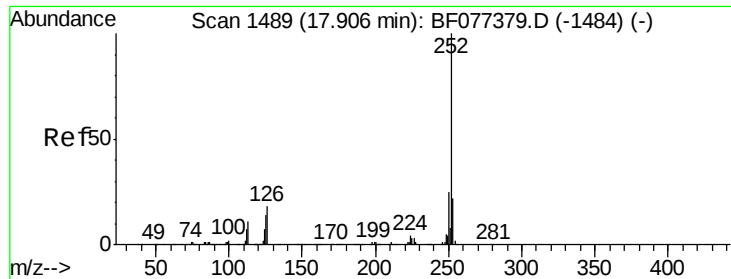
Lab File: BF077614.D

Acq: 5 Mar 2015 9:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 54455 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 31.5  | 18.1  | 27.1# |
| 125       | 32.4  | 10.1  | 15.1# |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





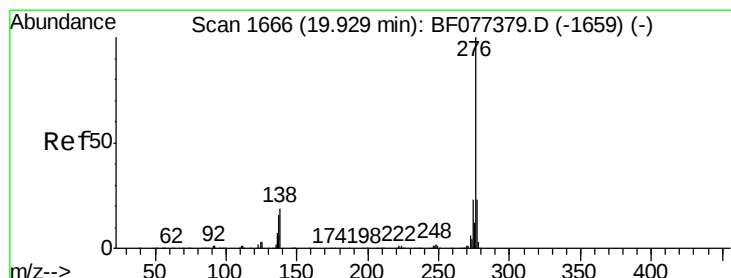
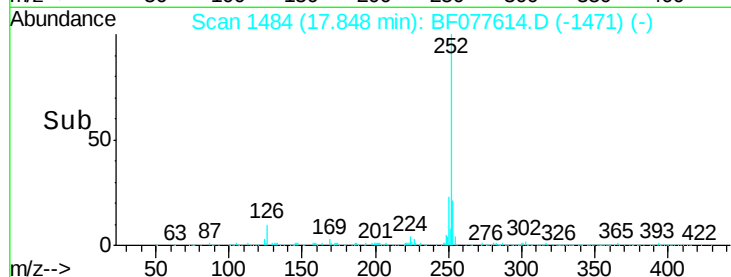
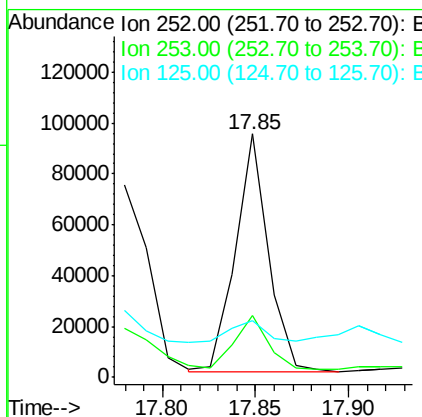
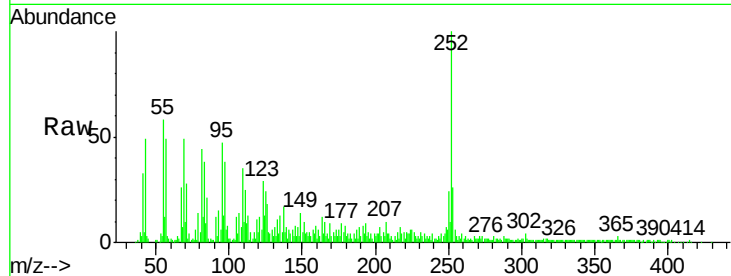
#89  
Benzo(a)pyrene  
Concen: 5.22 ng  
RT: 17.85 min Scan# 1484  
Delta R.T. 0.05 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 114435 |       |       |
| 253     | 25.6  | 18.2   | 27.2  |       |
| 125     | 23.5  | 8.3    | 12.5# |       |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 4.39 ng  
RT: 19.79 min Scan# 1654  
Delta R.T. 0.07 min  
Lab File: BF077614.D  
Acq: 5 Mar 2015 9:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 92764 |       |       |
| 277     | 26.2  | 18.9  | 28.3  |       |
| 138     | 27.4  | 20.5  | 30.7  |       |

