

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\  
 Data File : BF089492.D  
 Acq On : 1 Aug 2016 3:32  
 Operator : UM/SJ  
 Sample : H4222-06  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05-COMP

Manual Integrations  
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Quant Time: Aug 01 07:12:30 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 01 04:11:30 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 40710    | 20.00  | ng    | -0.01          |
| 21) Naphthalene-d8          | 7.78  | 136  | 139705   | 20.00  | ng    | -0.01          |
| 38) Acenaphthene-d10        | 9.52  | 164  | 54968    | 20.00  | ng    | -0.01          |
| 63) Phenanthrene-d10        | 10.99 | 188  | 107457   | 20.00  | ng    | -0.01          |
| 75) Chrysene-d12            | 13.61 | 240  | 104306   | 20.00  | ng    | -0.01          |
| 86) Perylene-d12            | 14.95 | 264  | 82506    | 20.00  | ng    | 0.00           |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 5.06  | 112  | 356729   | 139.92 | ng    | 0.00           |
| 7) Phenol-d6                | 6.16  | 99   | 451869   | 134.11 | ng    | -0.01          |
| 23) Nitrobenzene-d5         | 7.07  | 82   | 263415   | 111.29 | ng    | -0.01          |
| 41) 2,4,6-Tribromophenol    | 10.31 | 330  | 61018    | 134.03 | ng    | -0.01          |
| 44) 2-Fluorobiphenyl        | 8.86  | 172  | 373681   | 99.77  | ng    | -0.01          |
| 78) Terphenyl-d14           | 12.58 | 244  | 374112   | 83.94  | ng    | 0.00           |
| Target Compounds            |       |      |          |        |       |                |
| 10) Phenol                  | 6.17  | 94   | 7580     | 2.04   | ng    | Qvalue<br># 52 |
| 49) Dimethylphthalate       | 9.26  | 163  | 75836    | 18.13  | ng    | 97             |
| 70) Phenanthrene            | 11.02 | 178  | 12479    | 2.25   | ng    | 98             |
| 74) Fluoranthene            | 12.19 | 202  | 39412    | 6.76   | ng    | 96             |
| 77) Pyrene                  | 12.42 | 202  | 29097    | 3.68   | ng    | 99             |
| 80) Benzo(a)anthracene      | 13.60 | 228  | 18617    | 3.16   | ng    | # 91           |
| 82) Chrysene                | 13.65 | 228  | 14590m   | 2.33   | ng    |                |
| 87) Benzo(b)fluoranthene    | 14.61 | 252  | 18089m   | 3.53   | ng    |                |
| 89) Benzo(a)pyrene          | 14.90 | 252  | 11320    | 2.46   | ng    | 96             |

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

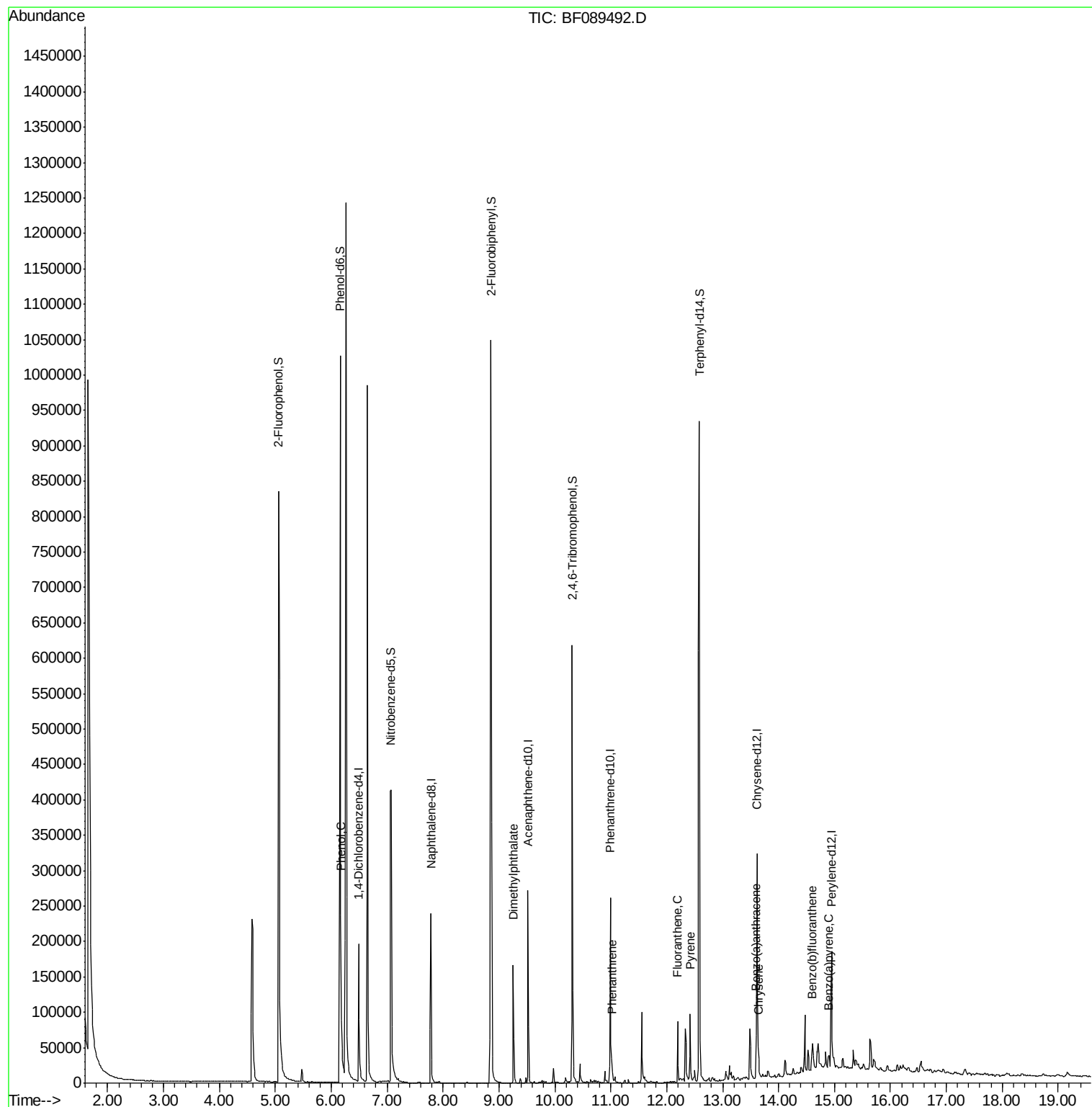
Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\  
Data File : BF089492.D  
Acq On : 1 Aug 2016 3:32  
Operator : UM/SJ  
Sample : H4222-06  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

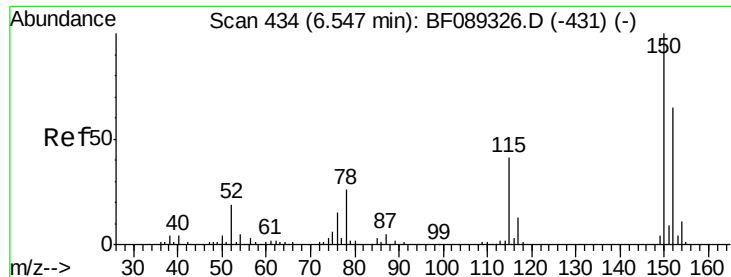
Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-COMP

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Quant Time: Aug 01 07:12:30 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 01 04:11:30 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.49 min Scan# 429

Delta R.T. -0.01 min

Lab File: BF089492.D

Acq: 1 Aug 2016 3:32

Instrument :

BNA\_F

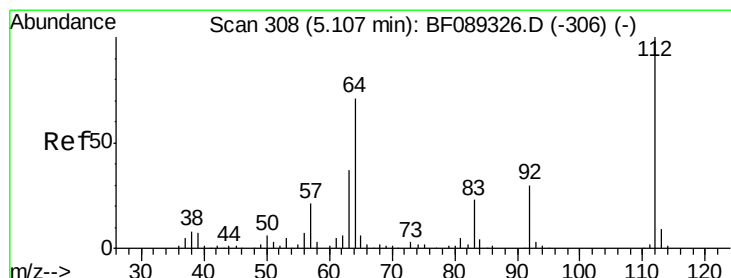
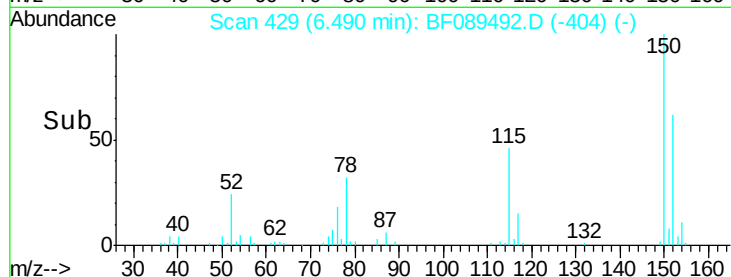
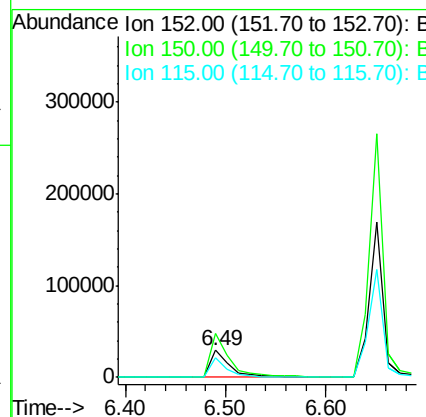
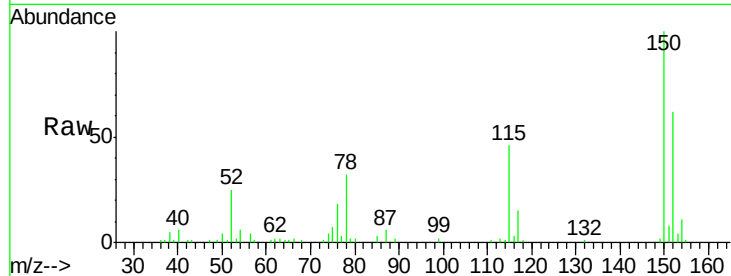
ClientSampleId :

SB-05-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 40710 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 161.1 | 129.5 | 194.3 |
| 115       | 74.1  | 51.4  | 77.2  |

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#5

2-Fluorophenol

Concen: 139.92 ng

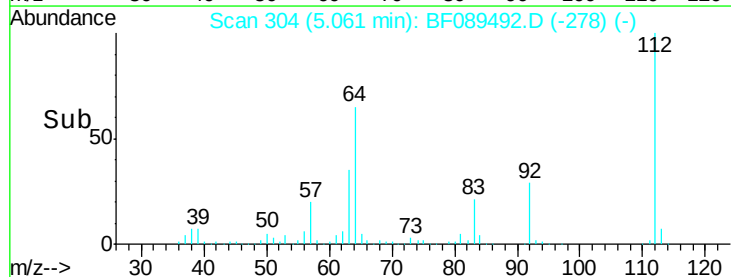
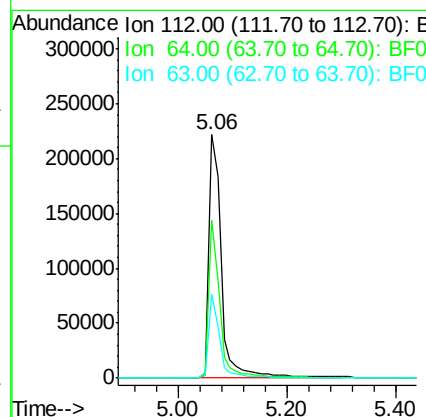
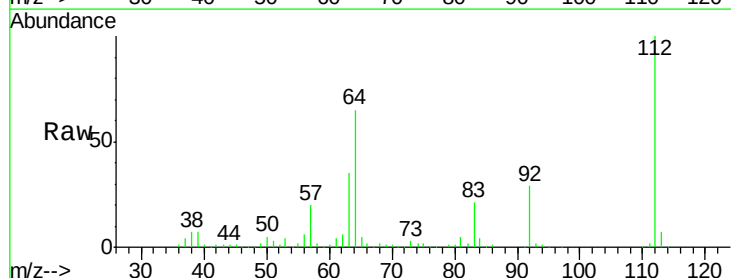
RT: 5.06 min Scan# 304

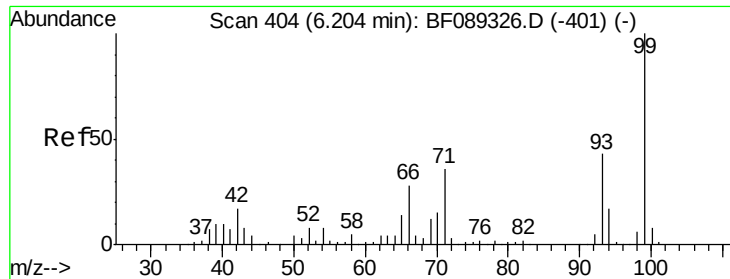
Delta R.T. 0.00 min

Lab File: BF089492.D

Acq: 1 Aug 2016 3:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 356729 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 64.7  | 55.0  | 82.6   |
| 63        | 34.5  | 29.4  | 44.2   |





#7

Phenol-d6

Concen: 134.11 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF089492.D

Acq: 1 Aug 2016 3:32

Instrument :

BNA\_F

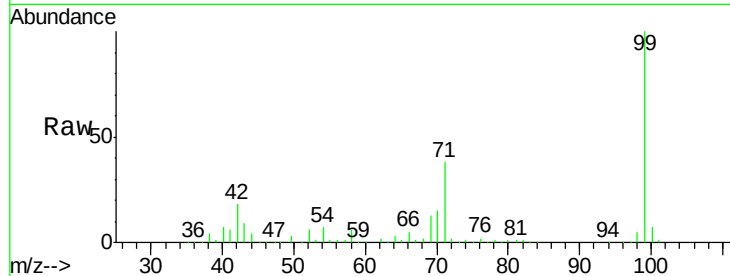
ClientSampled :

SB-05-COMP

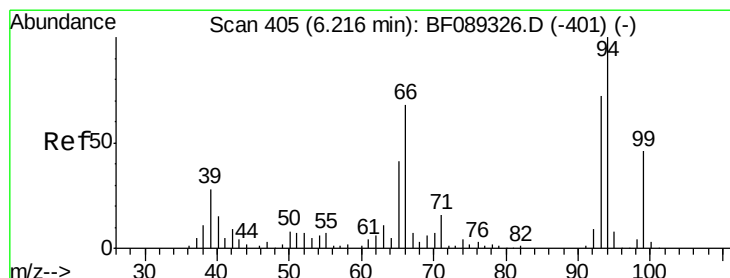
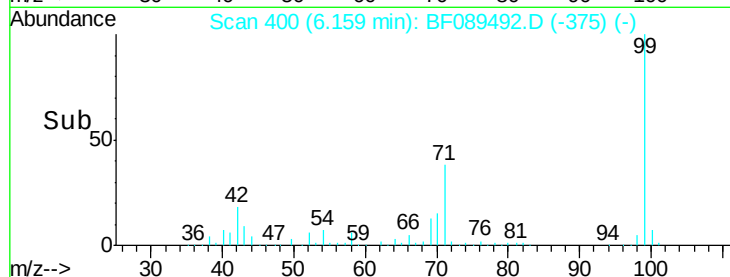
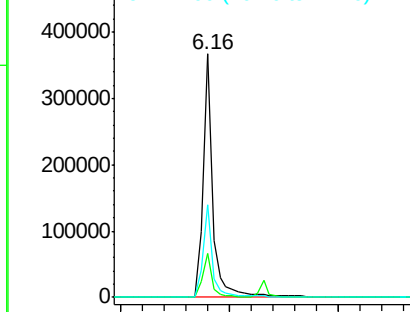
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 451869 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.9  | 13.6  | 20.4   |
| 71        | 38.0  | 29.4  | 44.2   |

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Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.04 ng

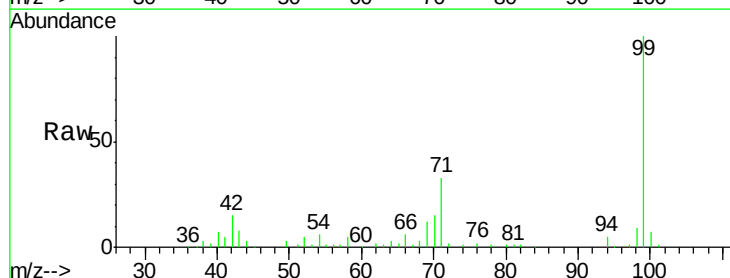
RT: 6.17 min Scan# 401

Delta R.T. -0.01 min

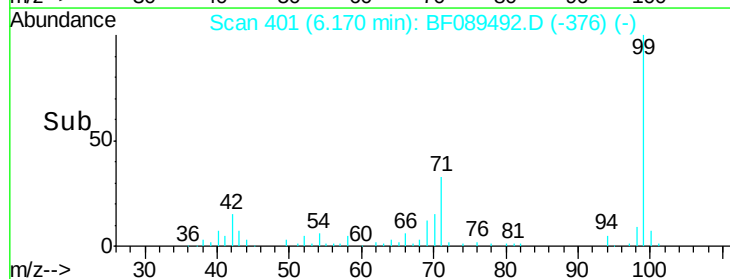
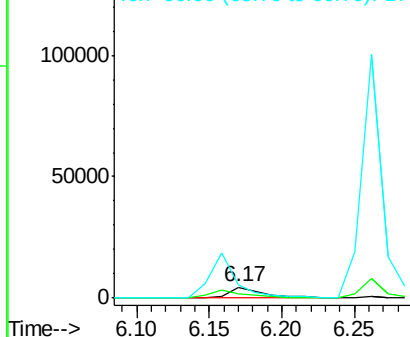
Lab File: BF089492.D

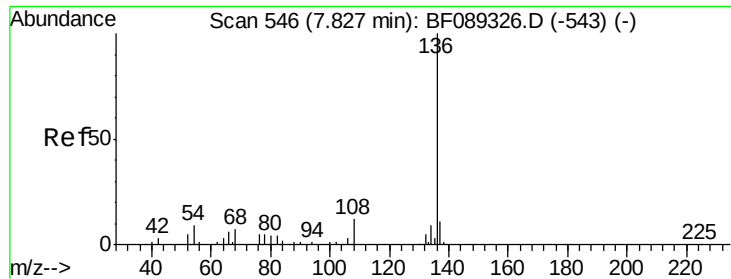
Acq: 1 Aug 2016 3:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 7580  |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 43.8  | 19.1  | 59.1  |
| 66        | 121.2 | 44.4  | 84.4# |



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 542

Delta R.T. -0.01 min

Lab File: BF089492.D

Acq: 1 Aug 2016 3:32

Instrument :

BNA\_F

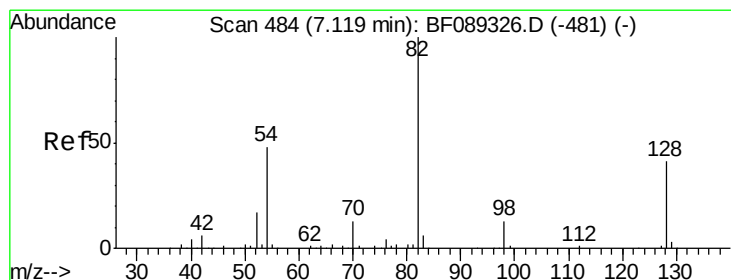
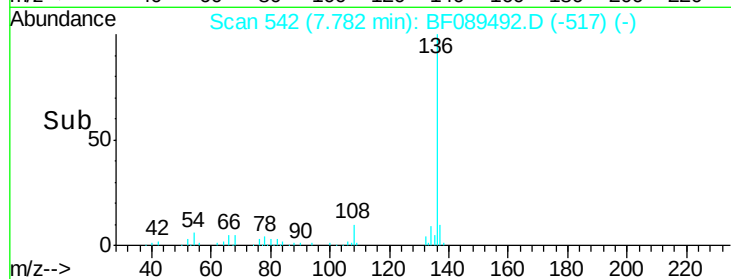
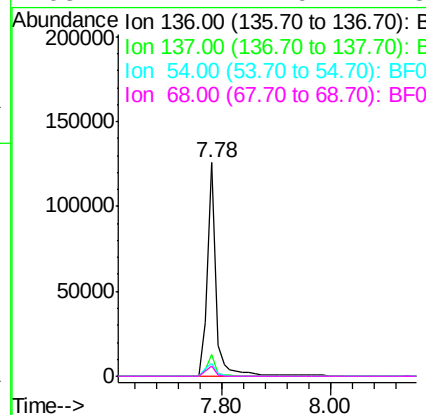
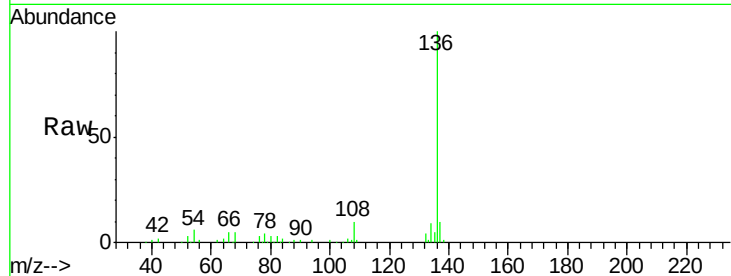
ClientSampleId :

SB-05-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 136     | 100   |            |       |
| 137     | 10.4  | 8.6        | 13.0  |
| 54      | 5.8   | 7.0        | 10.4# |
| 68      | 4.7   | 4.9        | 7.3#  |

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#23

Nitrobenzene-d5

Concen: 111.29 ng

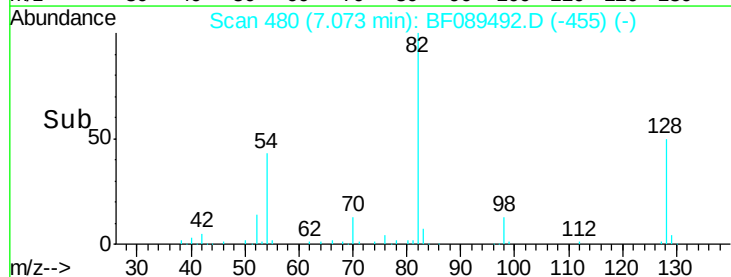
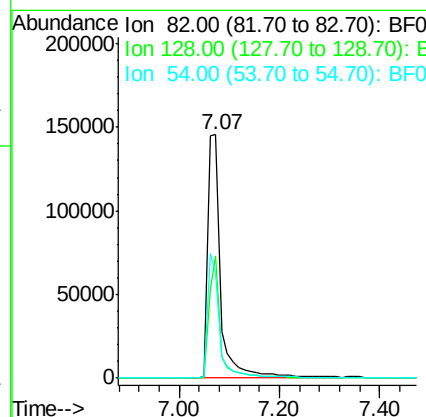
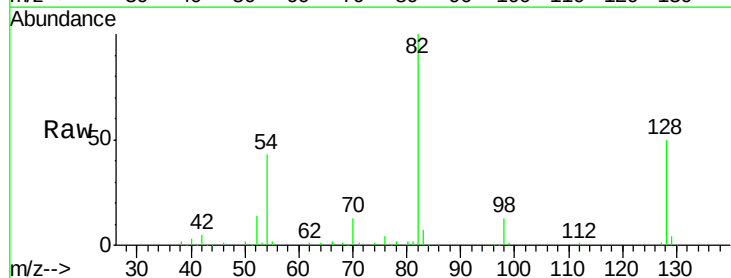
RT: 7.07 min Scan# 480

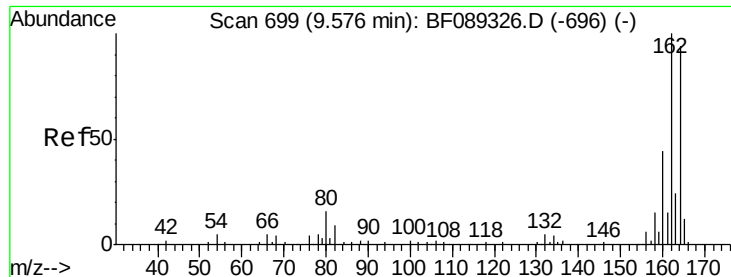
Delta R.T. -0.01 min

Lab File: BF089492.D

Acq: 1 Aug 2016 3:32

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 50.1  | 32.5       | 48.7# |
| 54      | 43.3  | 38.8       | 58.2  |





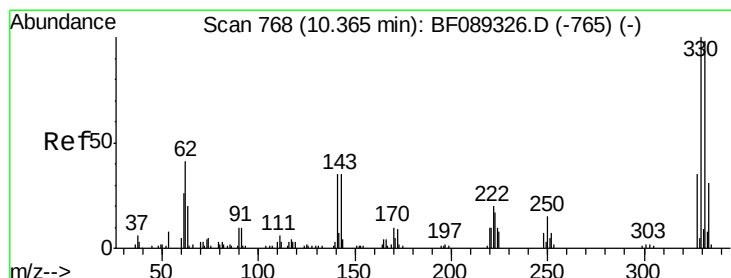
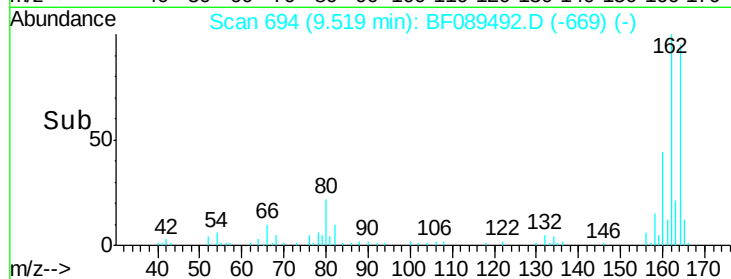
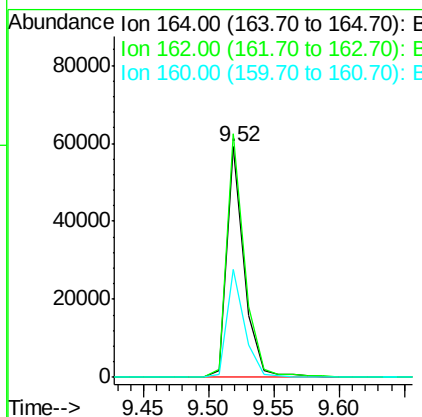
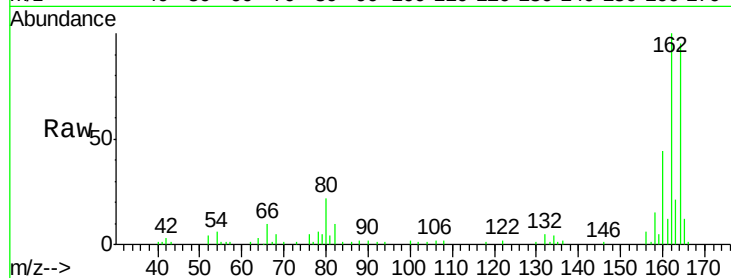
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.52 min Scan# 694  
 Delta R.T. -0.01 min  
 Lab File: BF089492.D  
 Acq: 1 Aug 2016 3:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.7 | 83.7  | 125.5 |
| 160     | 47.0  | 37.8  | 56.6  |

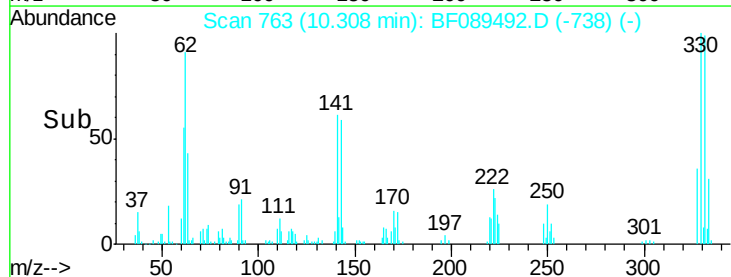
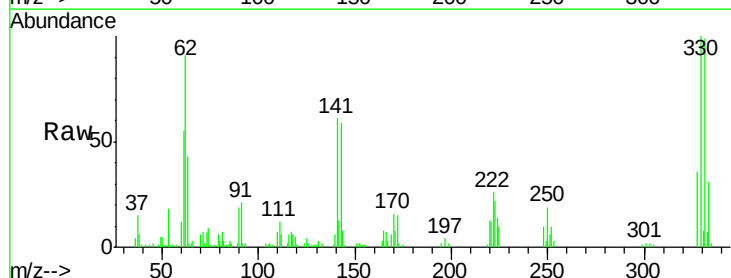
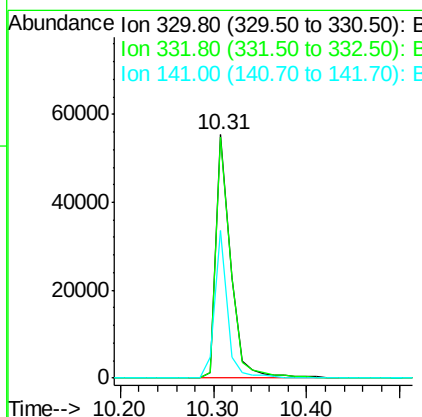
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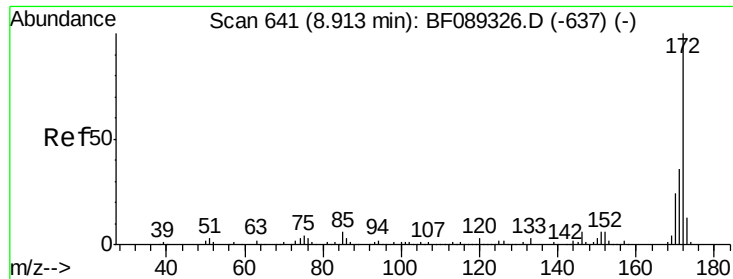
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#41  
 2,4,6-Tribromophenol  
 Concen: 134.03 ng  
 RT: 10.31 min Scan# 763  
 Delta R.T. -0.01 min  
 Lab File: BF089492.D  
 Acq: 1 Aug 2016 3:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.3  | 76.8  | 115.2 |
| 141     | 51.9  | 37.3  | 55.9  |





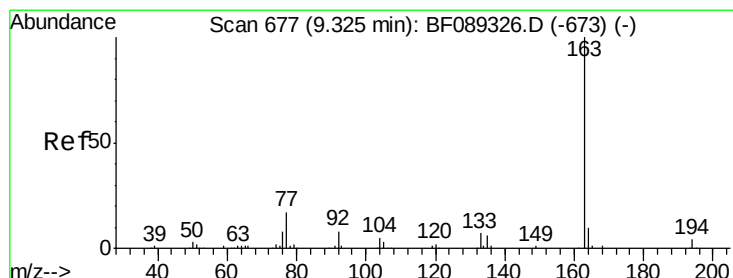
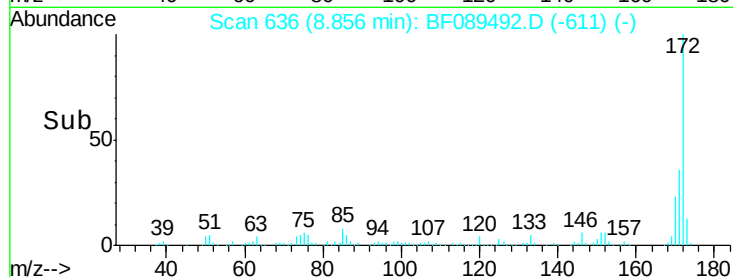
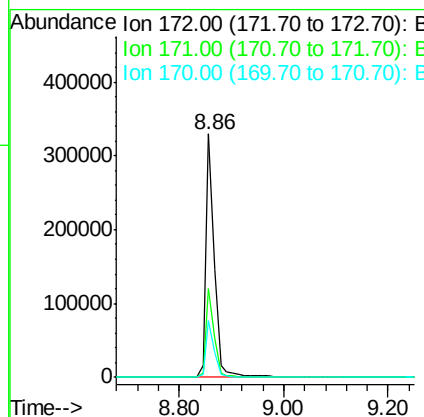
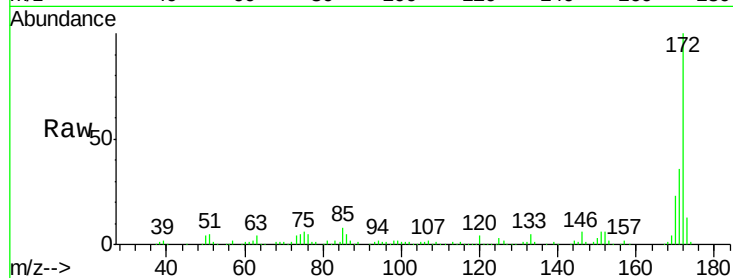
#44  
2-Fluorobiphenyl  
Concen: 99.77 ng  
RT: 8.86 min Scan# 636  
Delta R.T. -0.01 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 29.2  | 43.8  |
| 170     | 23.5  | 19.2  | 28.8  |

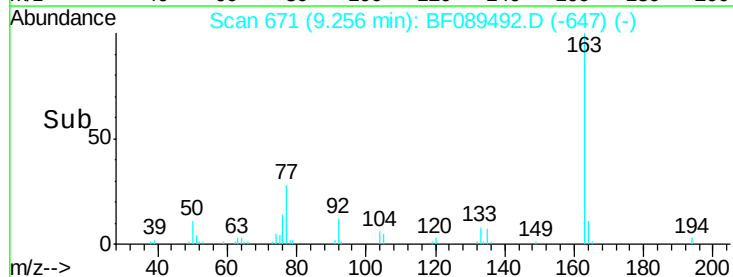
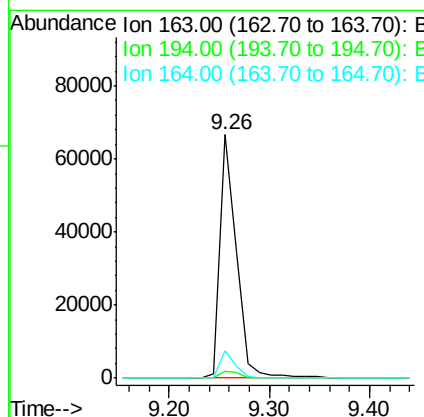
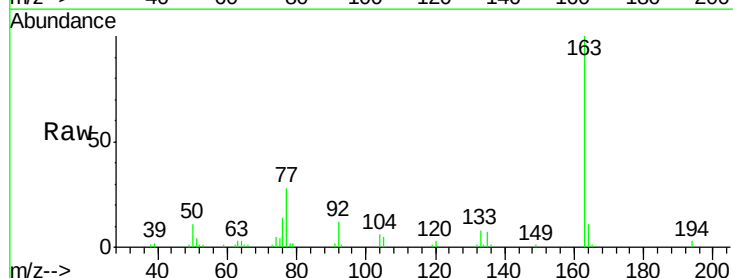
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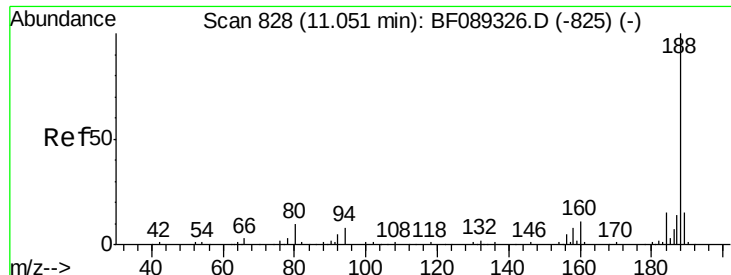
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#49  
Dimethylphthalate  
Concen: 18.13 ng  
RT: 9.26 min Scan# 671  
Delta R.T. -0.02 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.0   | 2.8   | 4.2   |
| 164     | 11.2  | 7.8   | 11.8  |





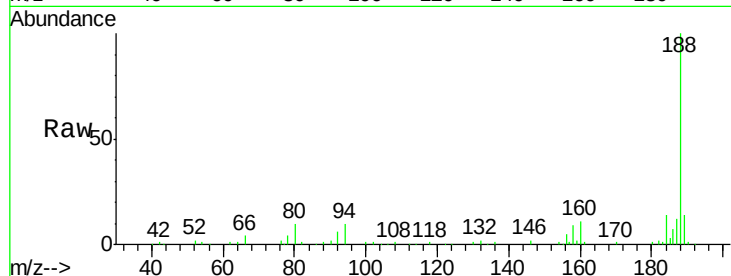
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Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.99 min Scan# 823  
Delta R.T. -0.01 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-COMP

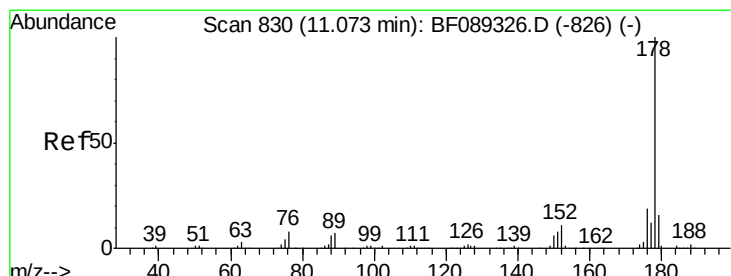
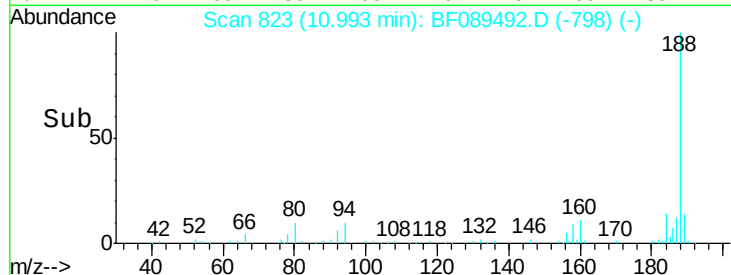
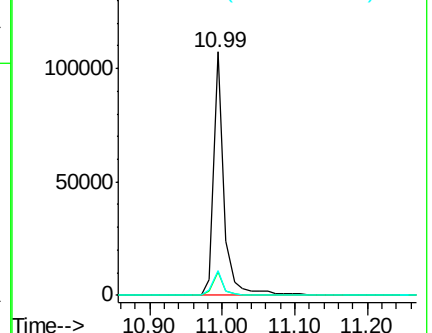
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 107457 |       |       |
| 94      | 9.5   |        | 6.5   | 9.7   |
| 80      | 10.3  |        | 7.2   | 10.8  |

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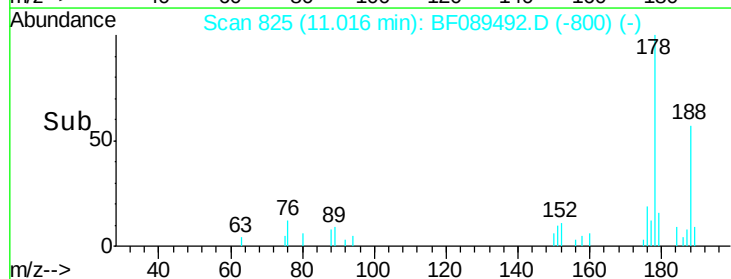
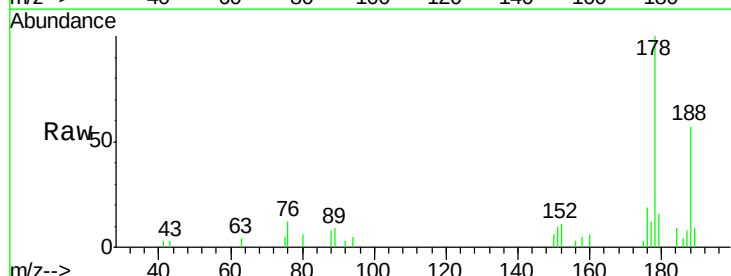
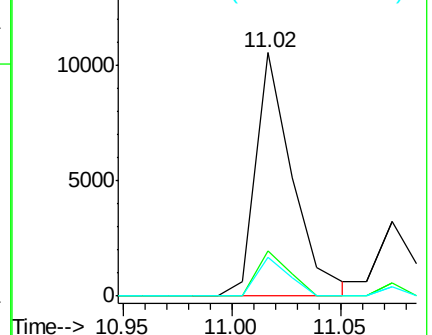
Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0



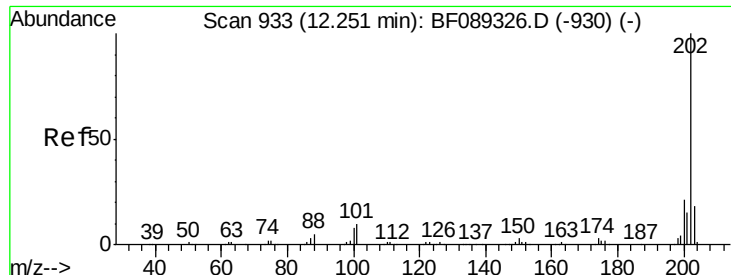
#70  
Phenanthrene  
Concen: 2.25 ng  
RT: 11.02 min Scan# 825  
Delta R.T. -0.01 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 12479 |       |       |
| 176     | 18.5  |       | 15.5  | 23.3  |
| 179     | 16.0  |       | 12.3  | 18.5  |

Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E







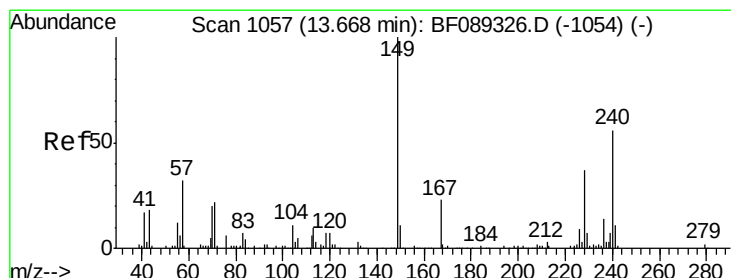
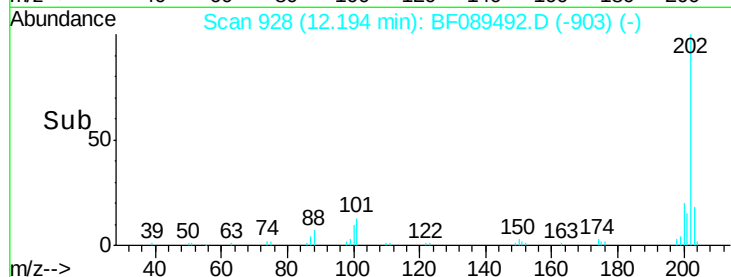
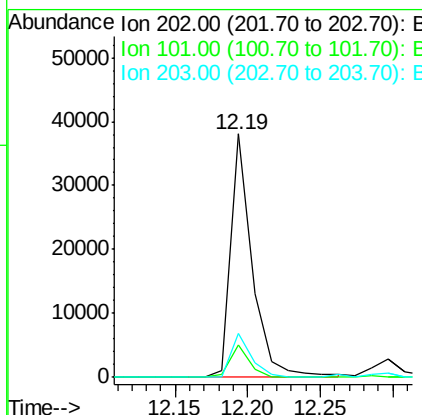
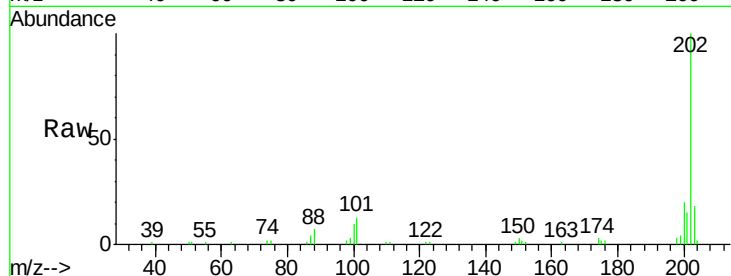
#74  
**Fluoranthene**  
 Concen: 6.76 ng  
 RT: 12.19 min Scan# 928  
 Delta R.T. -0.01 min  
 Lab File: BF089492.D  
 Acq: 1 Aug 2016 3:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.1  | 0.0        | 29.9  |
| 203     | 17.9  | 0.0        | 37.3  |

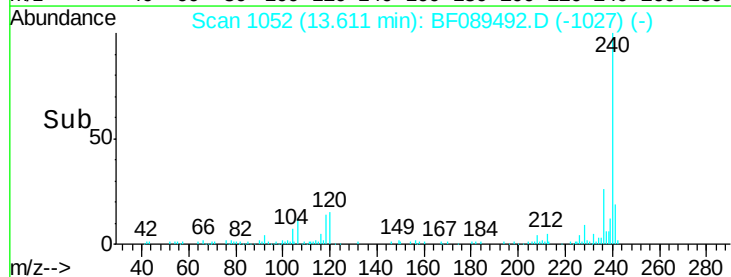
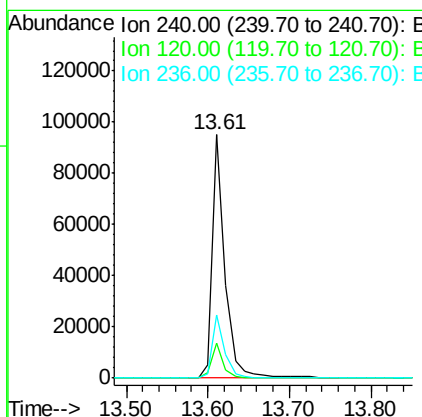
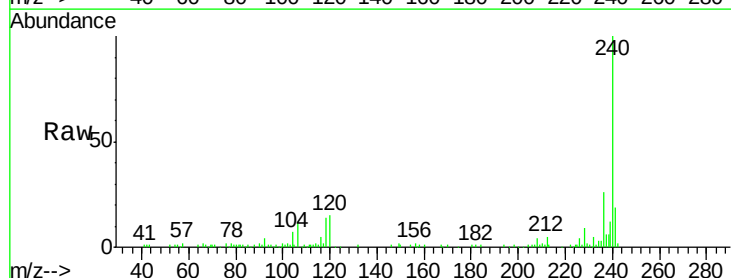
Manual Integrations  
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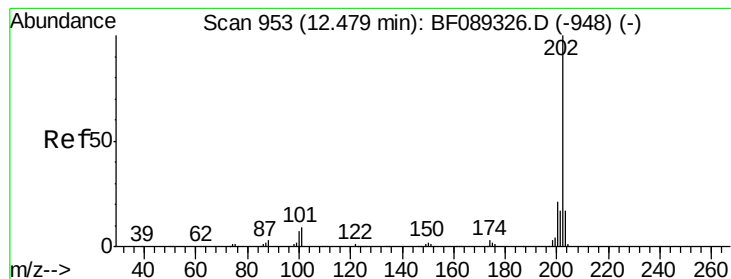
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#75  
**Chrysene-d12**  
 Concen: 20.00 ng  
 RT: 13.61 min Scan# 1052  
 Delta R.T. -0.01 min  
 Lab File: BF089492.D  
 Acq: 1 Aug 2016 3:32

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 14.6  | 9.1        | 13.7# |
| 236     | 25.9  | 20.6       | 30.8  |





#77

Pvrene

Concen: 3.68 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.01 min

Lab File: BF089492.D

Acq: 1 Aug 2016 3:32

Instrument :

BNA\_F

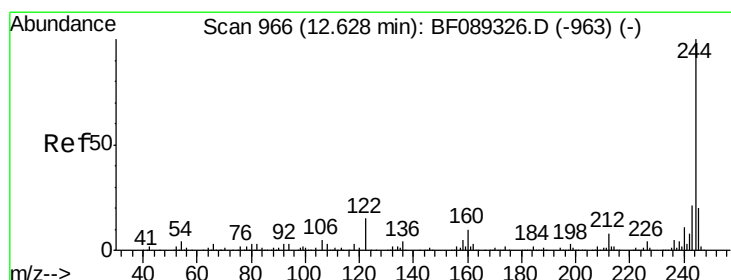
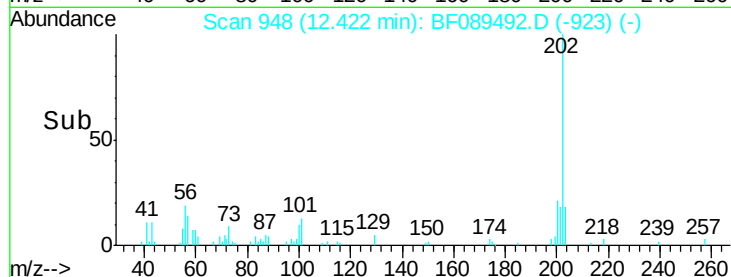
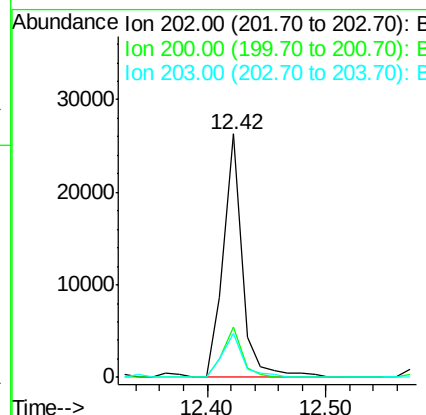
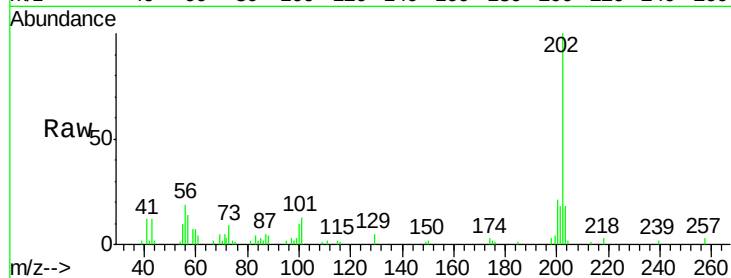
ClientSampleId :

SB-05-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 29097 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.9  | 16.9  | 25.3  |
| 203       | 17.9  | 14.0  | 21.0  |

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#78

Terphenyl-d14

Concen: 83.94 ng

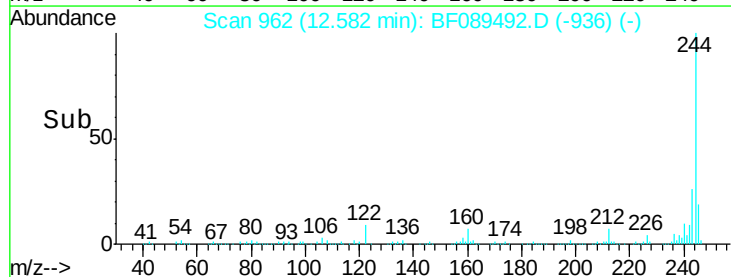
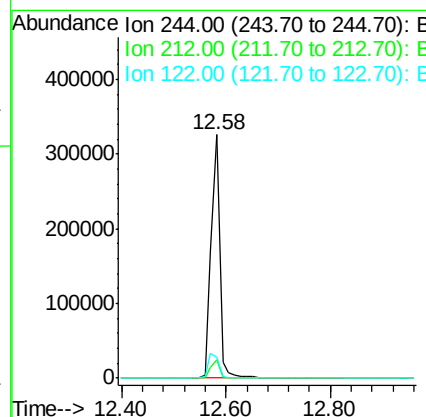
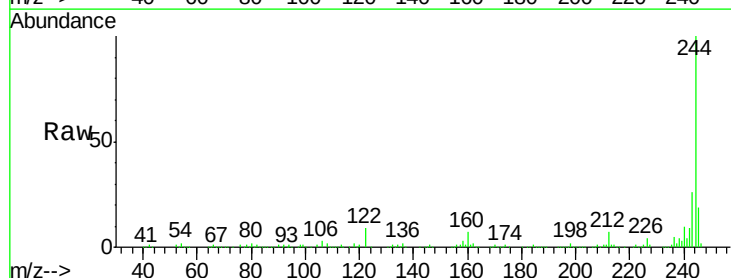
RT: 12.58 min Scan# 962

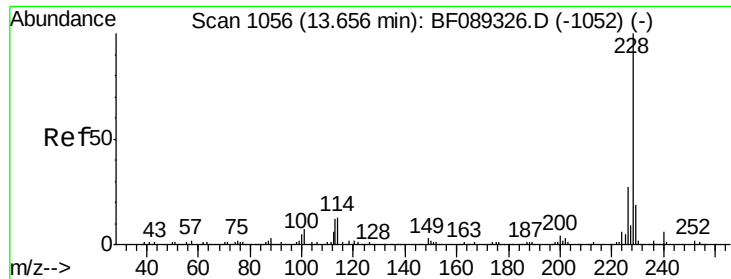
Delta R.T. 0.00 min

Lab File: BF089492.D

Acq: 1 Aug 2016 3:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 374112 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.4   | 6.5   | 9.7    |
| 122       | 8.7   | 11.4  | 17.0#  |





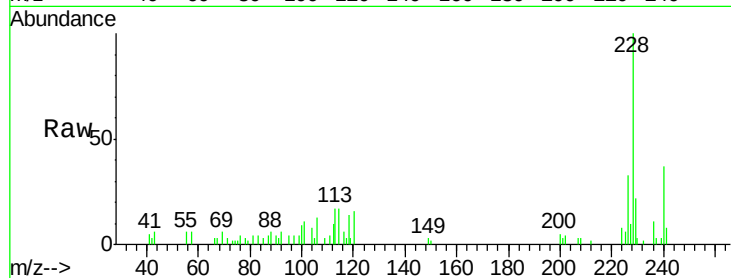
#80  
Benzo(a)anthracene  
Concen: 3.16 ng  
RT: 13.60 min Scan# 1051  
Delta R.T. -0.01 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-COMP

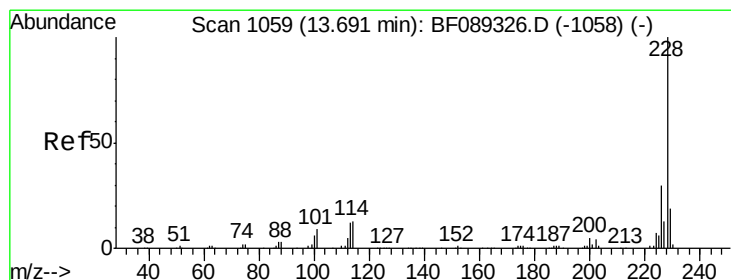
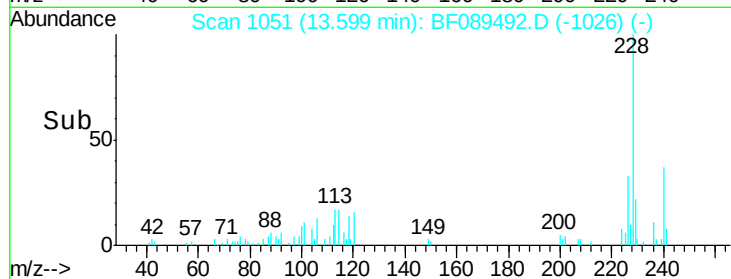
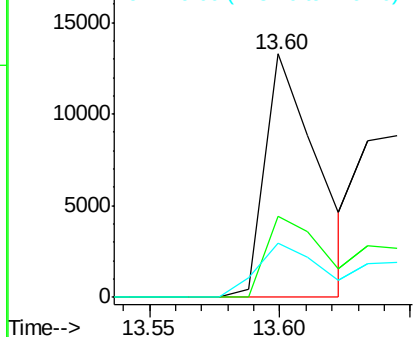
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.3  | 21.4  | 32.2  |
| 229     | 22.2  | 15.9  | 23.9  |

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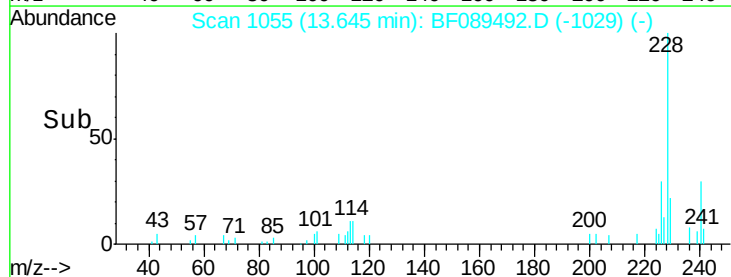
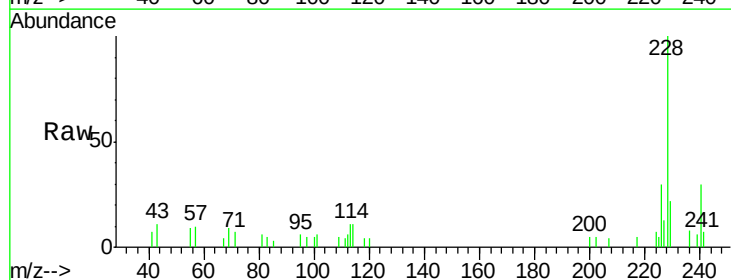
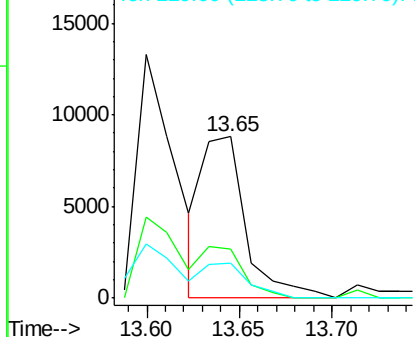
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

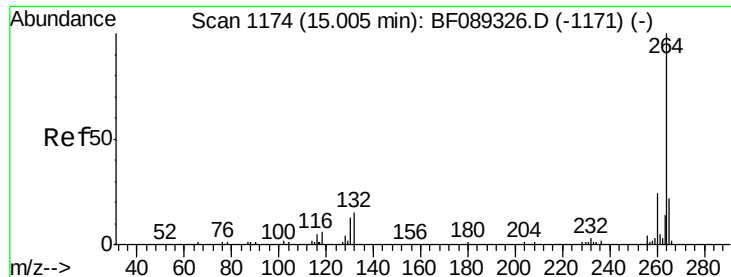


#82  
Chrysene  
Concen: 2.33 ng m  
RT: 13.65 min Scan# 1055  
Delta R.T. 0.00 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 24.2  | 36.2  |
| 229     | 21.6  | 15.9  | 23.9  |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





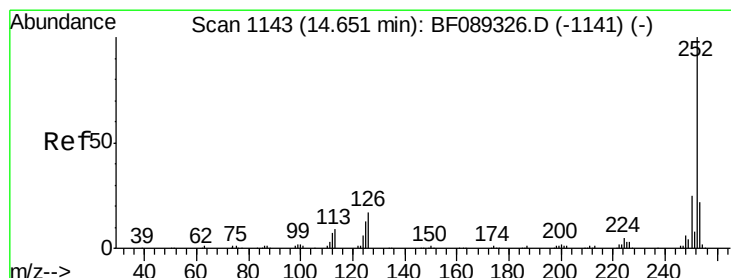
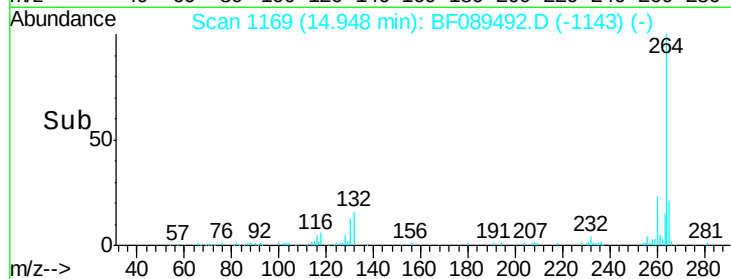
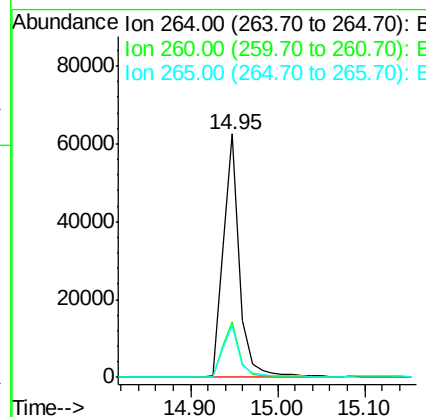
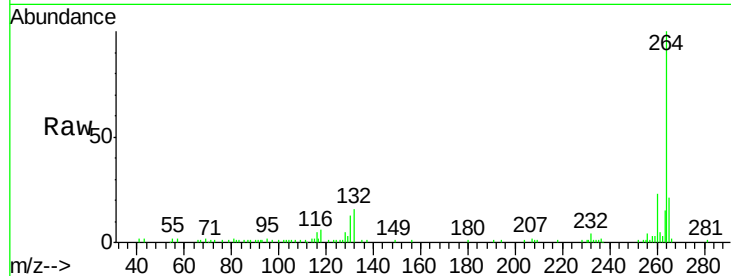
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.95 min Scan# 1169  
Delta R.T. 0.00 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 19.0  | 28.4  |
| 265     | 21.3  | 17.5  | 26.3  |

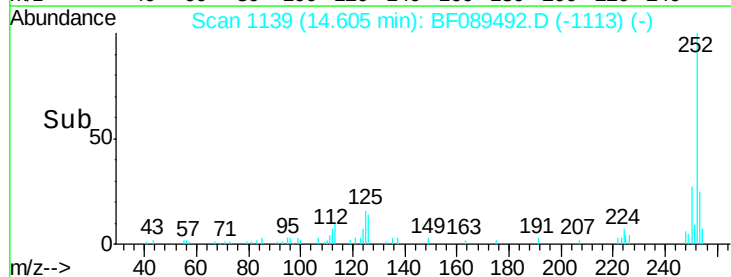
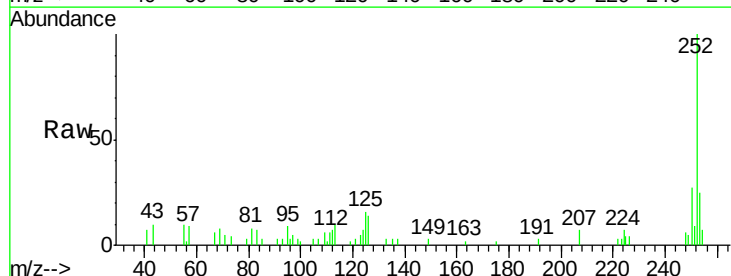
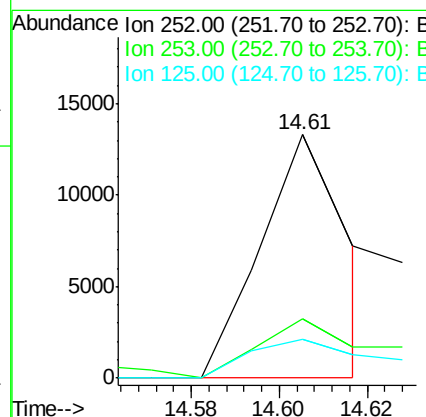
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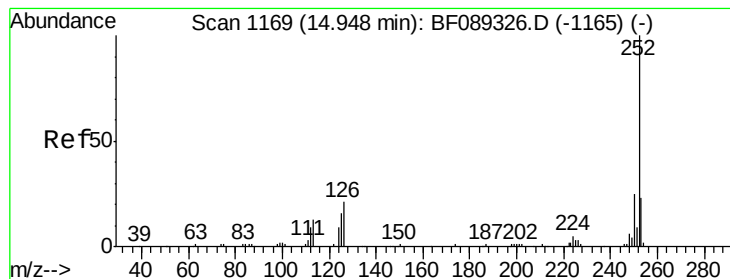
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#87  
Benzo(b)fluoranthene  
Concen: 3.53 ng m  
RT: 14.61 min Scan# 1139  
Delta R.T. 0.00 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 17.2  | 25.8  |
| 125     | 16.1  | 9.7   | 14.5# |





#89  
Benzo(a)pyrene  
Concen: 2.46 ng  
RT: 14.90 min Scan# 1165  
Delta R.T. 0.00 min  
Lab File: BF089492.D  
Acq: 1 Aug 2016 3:32

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05-COMP

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 252     | 100  |       |      |       |       |
| 253     | 24.1 | 17.4  | 26.2 |       |       |
| 125     | 16.2 | 12.4  | 18.6 |       |       |

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