

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040616\  
 Data File : BF086111.D  
 Acq On : 6 Apr 2016 21:29  
 Operator : UM/SJ  
 Sample : H2074-02  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB01B

Manual Integrations  
 APPROVED

Sohil  
 4/7/2016 8:59:12 AM

Quant Time: Apr 07 02:32:56 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 01 23:17:06 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.74  | 152  | 100035m  | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8          | 8.03  | 136  | 372495   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10        | 9.78  | 164  | 143022   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.26 | 188  | 214418   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 13.89 | 240  | 211183   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 15.30 | 264  | 199271   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.34  | 112  | 870591   | 148.76 | ng    | -0.02    |
| 7) Phenol-d6                | 6.40  | 99   | 1087502  | 146.29 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 577005   | 91.35  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 150449   | 112.08 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 832738   | 96.81  | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.84 | 244  | 589489   | 65.62  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.50  | 163  | 153530   | 14.48  | ng    | 99       |
| 70) Phenanthrene            | 11.29 | 178  | 30329    | 2.59   | ng    | 99       |
| 74) Fluoranthene            | 12.48 | 202  | 52958    | 4.35   | ng    | 90       |
| 77) Pyrene                  | 12.71 | 202  | 54650    | 3.67   | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.88 | 228  | 28049    | 2.25   | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 14.91 | 252  | 29269m   | 2.33   | ng    |          |

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

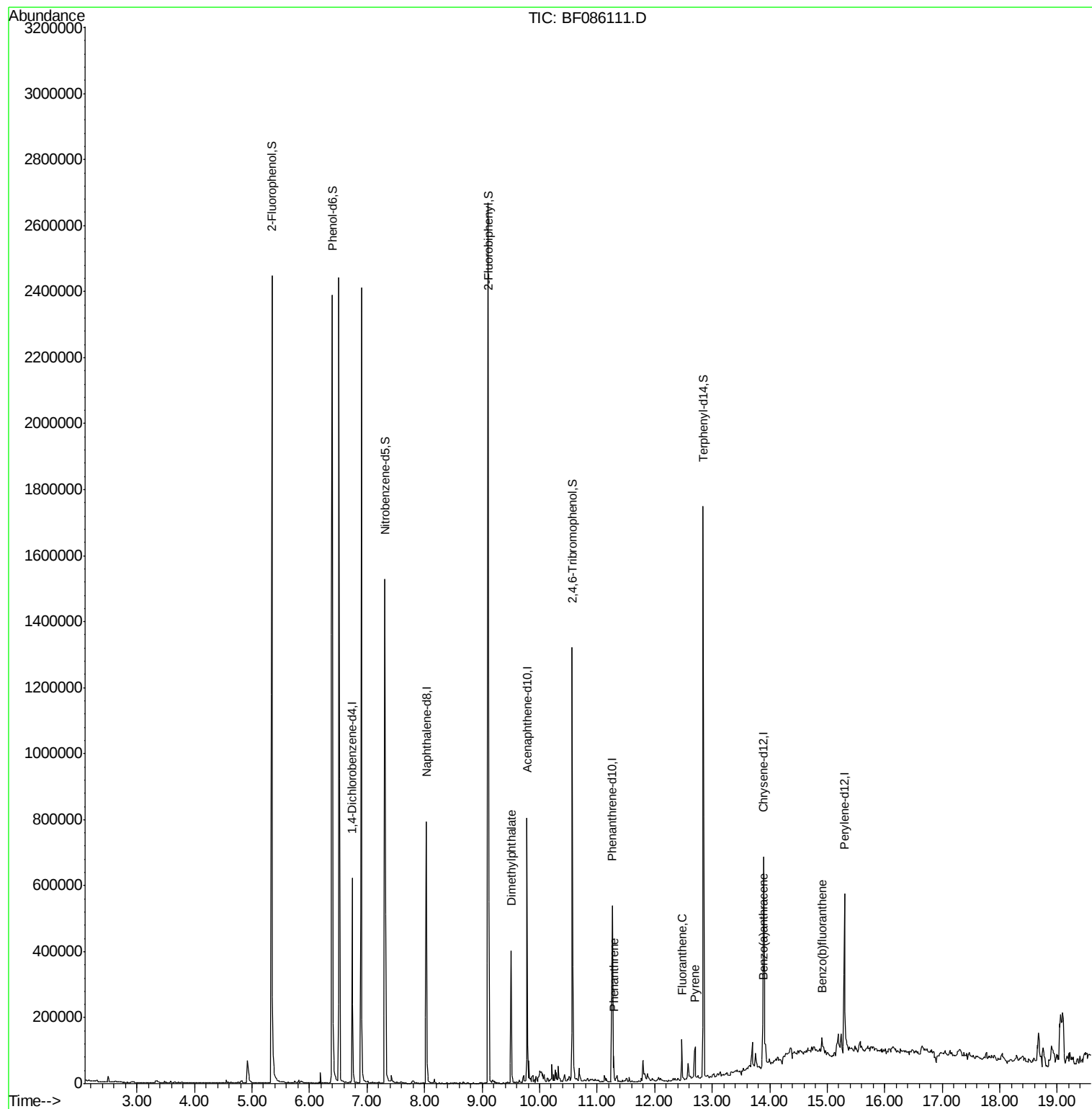
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040616\  
Data File : BF086111.D  
Acq On : 6 Apr 2016 21:29  
Operator : UM/SJ  
Sample : H2074-02  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

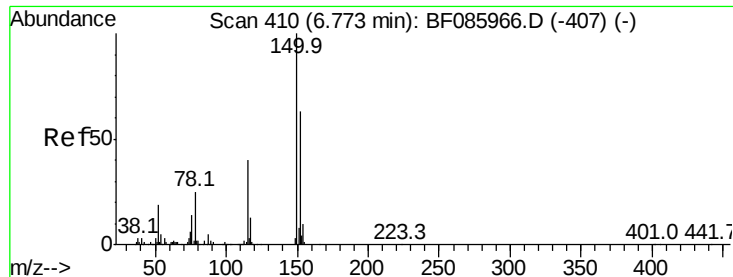
Instrument :  
BNA\_F  
ClientSampleId :  
SB01B

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Quant Time: Apr 07 02:32:56 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
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#1

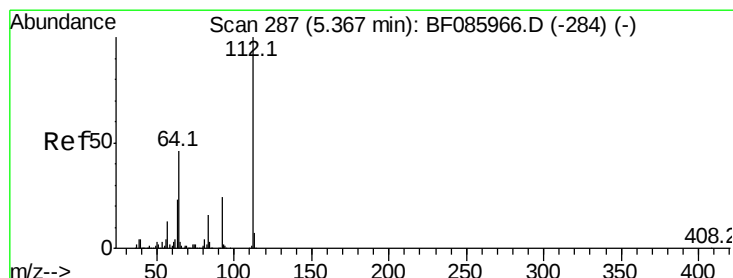
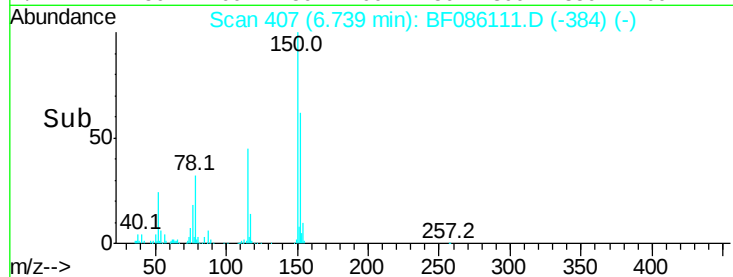
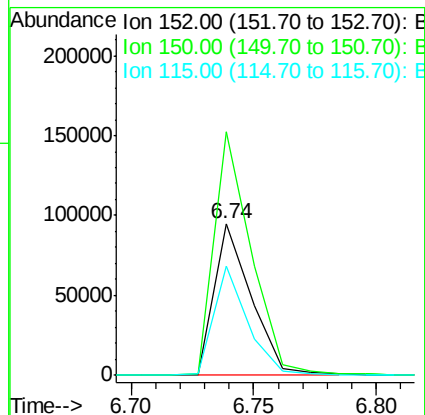
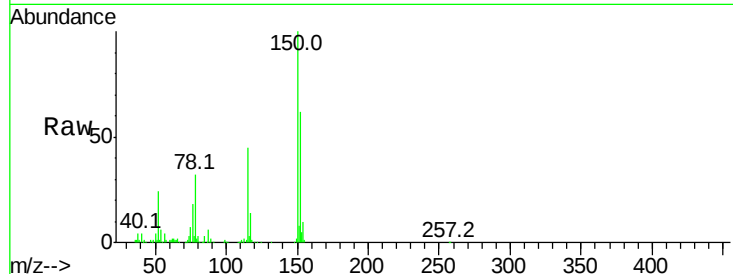
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng/ml  
RT: 6.74 min Scan# 407  
Delta R.T. -0.03 min  
Lab File: BF086111.D  
Acq: 6 Apr 2016 21:29

Instrument :  
BNA\_F  
ClientSampleId :  
SB01B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.2 | 124.2 | 186.2 |
| 115     | 71.6  | 47.0  | 70.6  |

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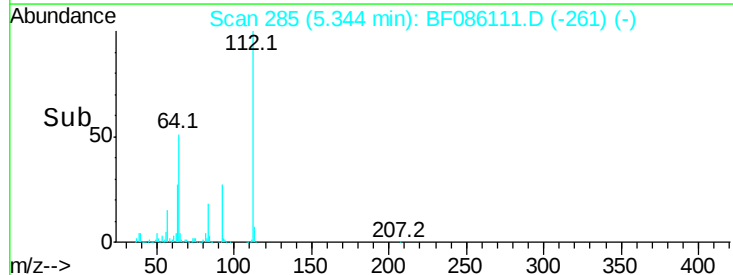
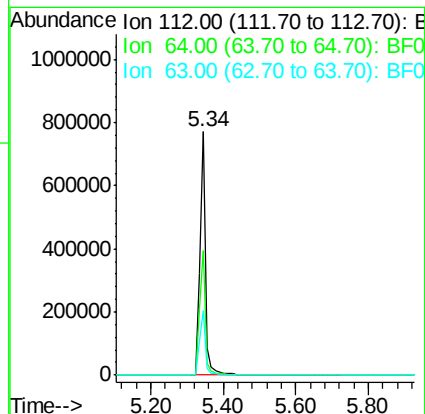
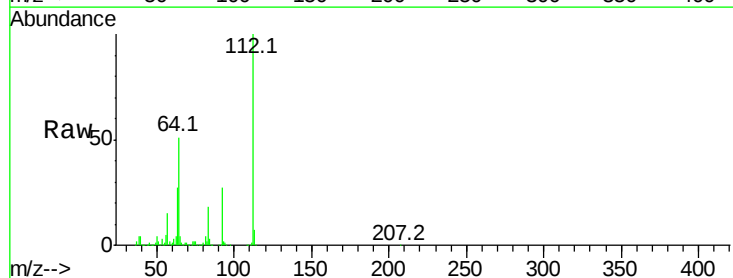
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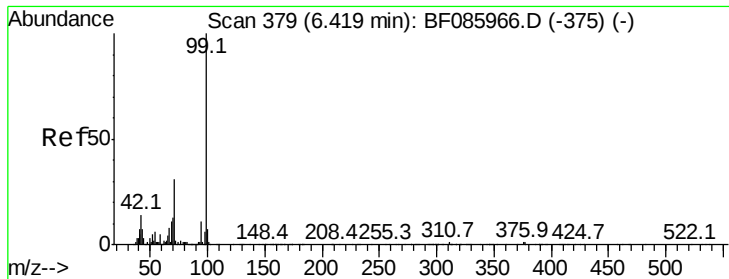


#5

2-Fluorophenol  
Concen: 148.76 ng  
RT: 5.34 min Scan# 285  
Delta R.T. -0.02 min  
Lab File: BF086111.D  
Acq: 6 Apr 2016 21:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.3  | 39.9  | 59.9  |
| 63      | 26.5  | 20.2  | 30.2  |





#7

Phenol-d6

Concen: 146.29 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

Instrument :

BNA\_F

ClientSampleId :

SB01B

Tot Ion: 99 Resp: 1087502

Ion Ratio Lower Upper

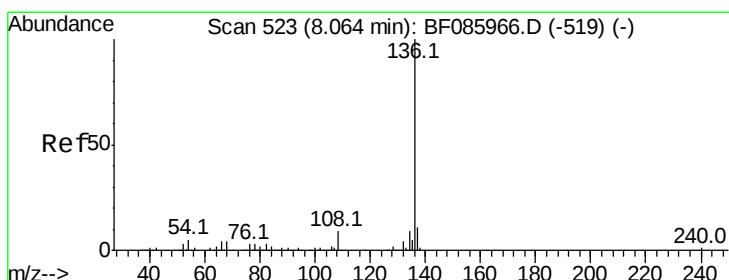
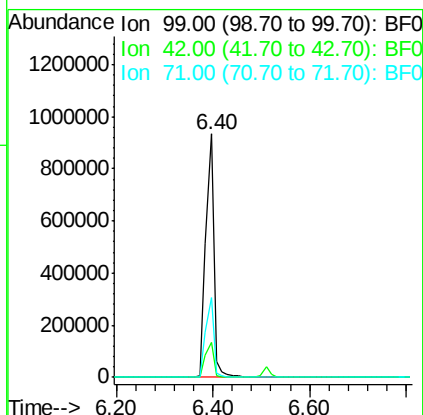
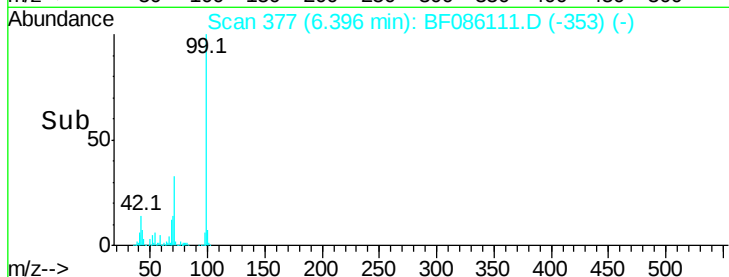
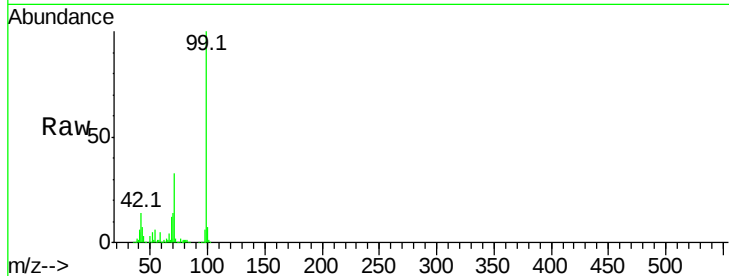
99 100

42 14.2 11.1 16.7

71 32.6 24.9 37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 520

Delta R.T. -0.03 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

Tgt Ion: 136 Resp: 372495

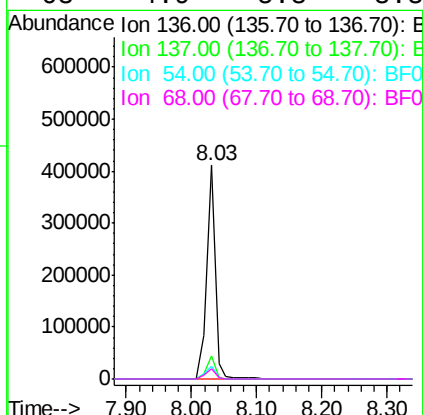
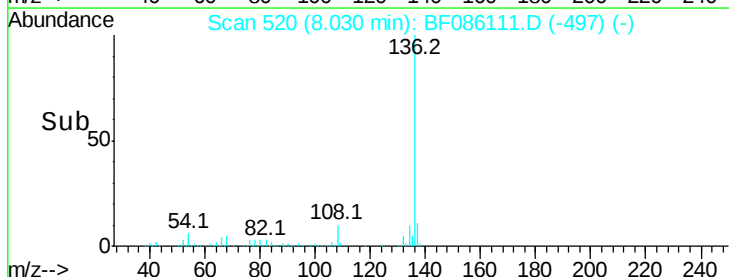
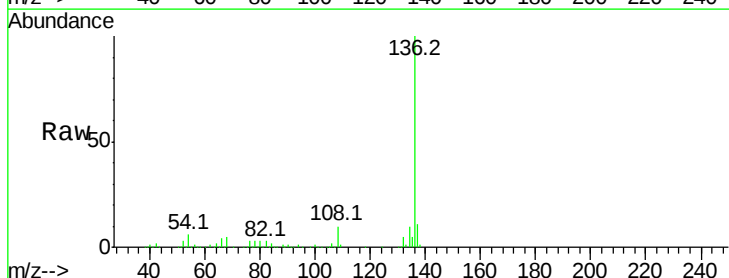
Ion Ratio Lower Upper

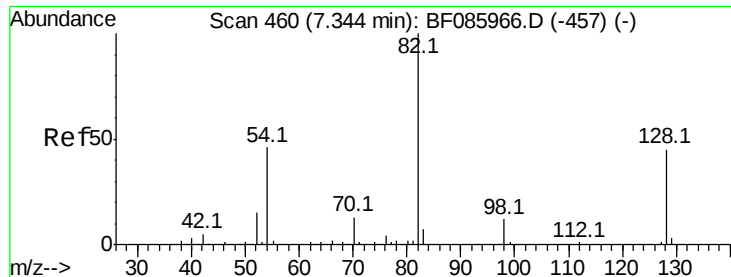
136 100

137 10.8 9.1 13.7

54 5.9 7.4 11.0#

68 4.9 5.8 8.8#





#23

Nitrobenzene-d5

Concen: 91.35 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.03 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

Instrument :

BNA\_F

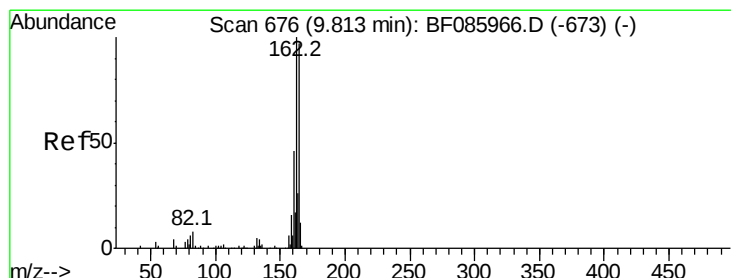
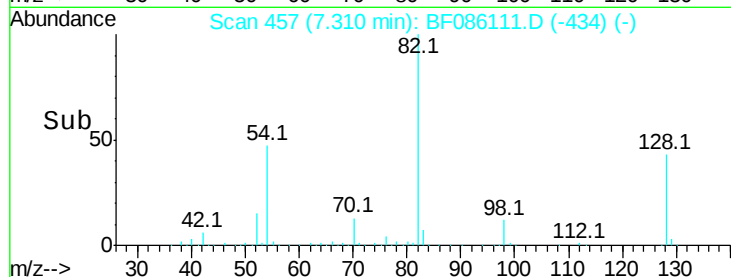
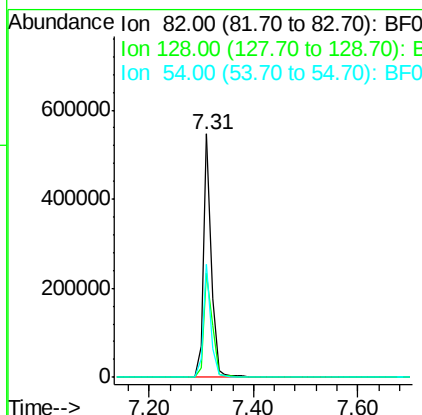
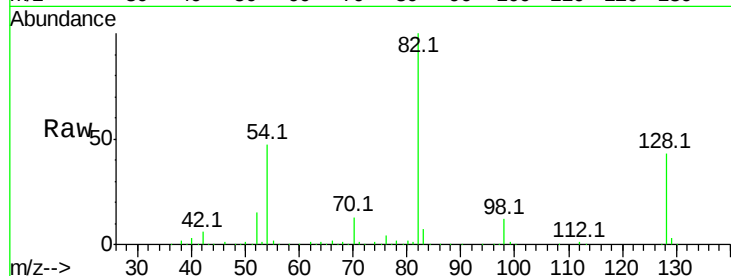
ClientSampleId :

SB01B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 577005 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 42.7  | 41.8  | 62.8   |
| 54        | 46.6  | 33.4  | 50.0   |

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#38

Acenaphthene-d10

Concen: 20.00 ng

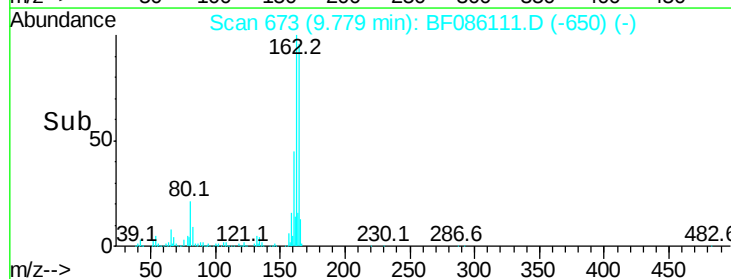
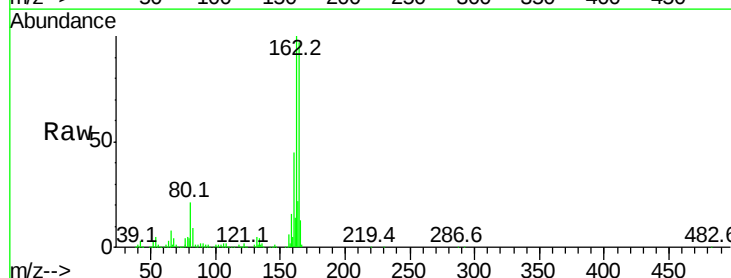
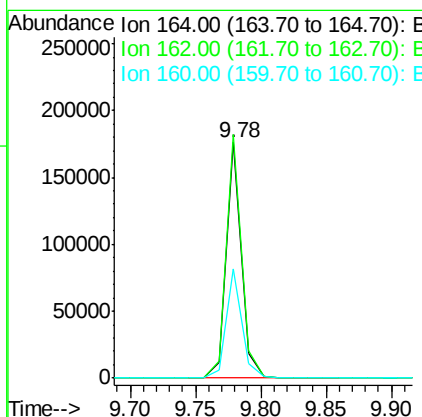
RT: 9.78 min Scan# 673

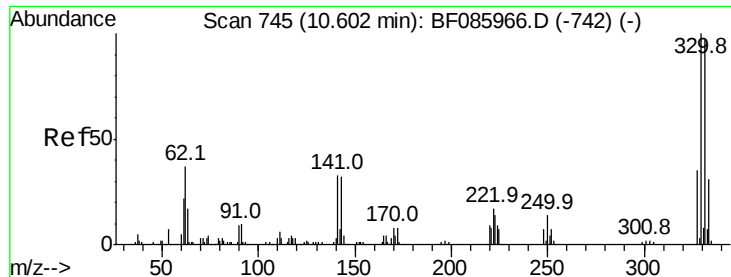
Delta R.T. -0.03 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 143022 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 103.5 | 82.1  | 123.1  |
| 160       | 46.6  | 37.4  | 56.2   |





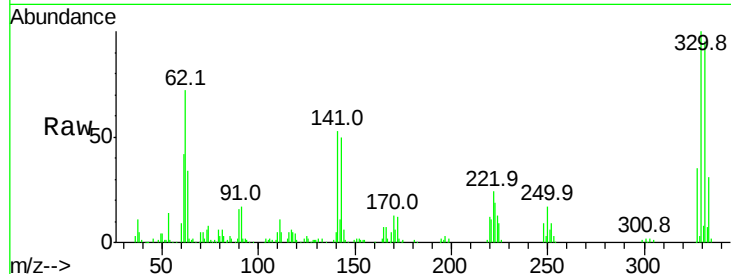
#41  
 2,4,6-Tribromophenol  
 Concen: 112.08 ng  
 RT: 10.57 min Scan# 742  
 Delta R.T. -0.03 min  
 Lab File: BF086111.D  
 Acq: 6 Apr 2016 21:29

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB01B

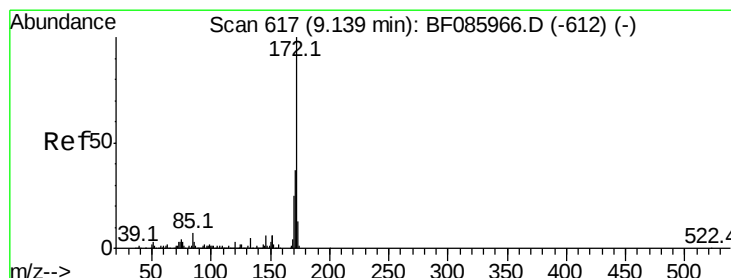
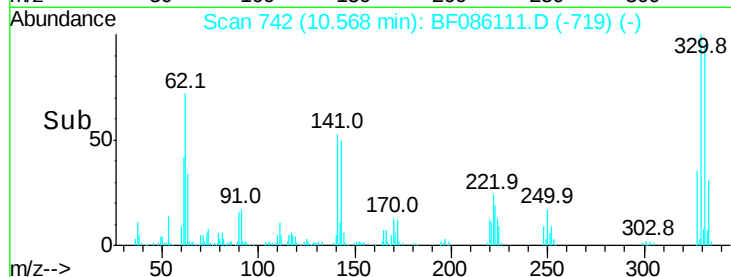
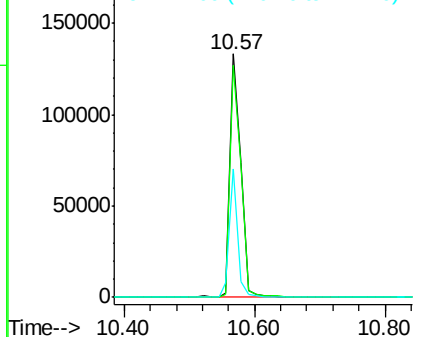
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 150449 |       |       |
| 332     | 95.9  | 78.2   | 117.2 |       |
| 141     | 41.7  | 31.5   | 47.3  |       |

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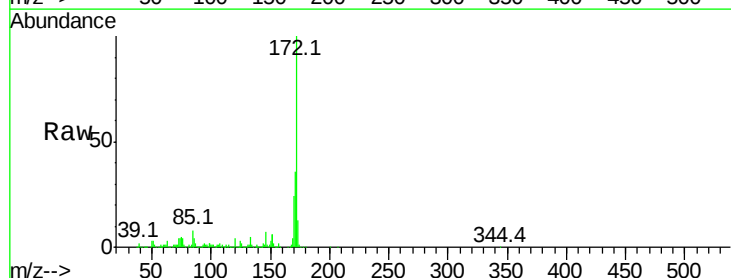


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

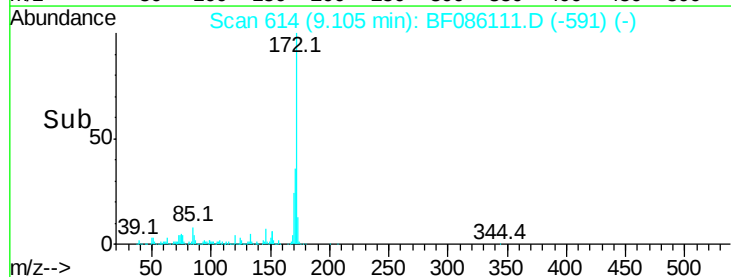
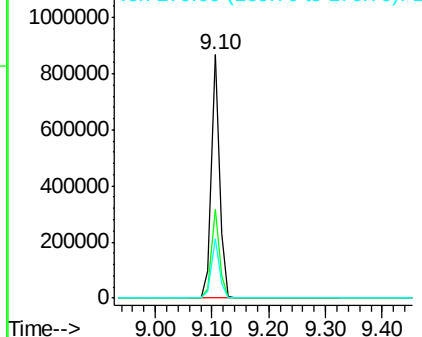


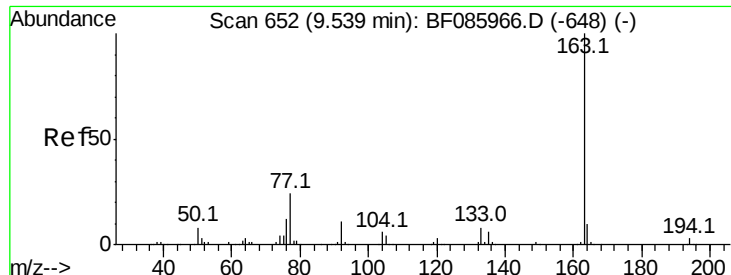
#44  
 2-Fluorobiphenyl  
 Concen: 96.81 ng  
 RT: 9.10 min Scan# 614  
 Delta R.T. -0.03 min  
 Lab File: BF086111.D  
 Acq: 6 Apr 2016 21:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 832738 |       |       |
| 171     | 36.3  | 29.4   | 44.2  |       |
| 170     | 24.4  | 19.8   | 29.6  |       |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





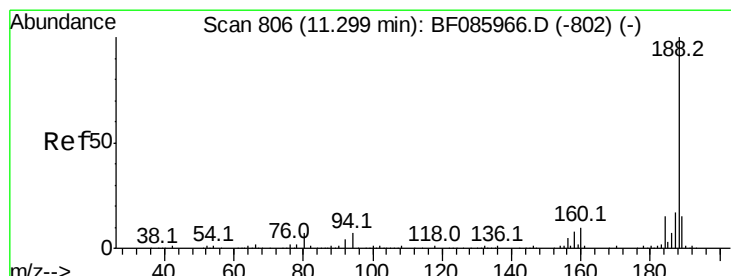
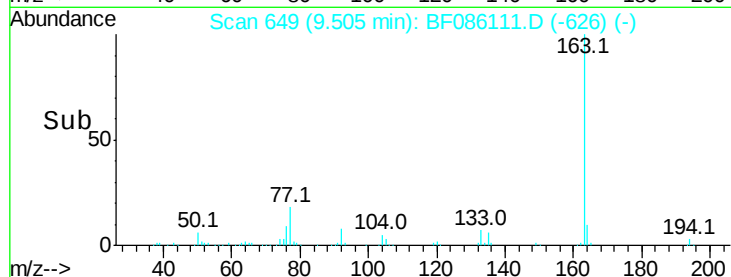
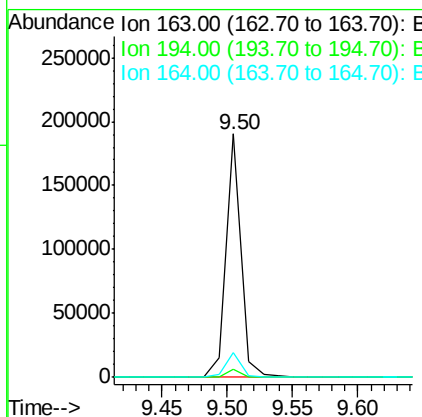
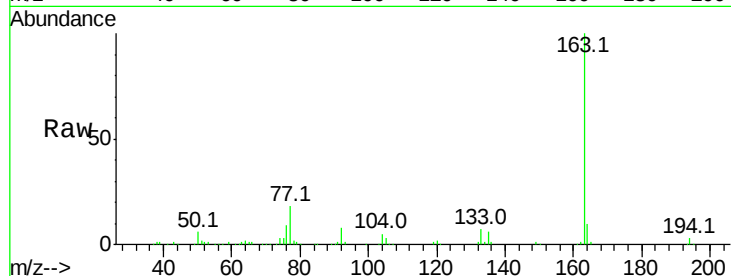
#49  
Dimethylphthalate  
Concen: 14.48 ng  
RT: 9.50 min Scan# 649  
Delta R.T. -0.03 min  
Lab File: BF086111.D  
Acq: 6 Apr 2016 21:29

Instrument :  
BNA\_F  
ClientSampled :  
SB01B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.3   | 2.9  | 4.3   |       |
| 164     | 10.1  | 8.3  | 12.5  |       |

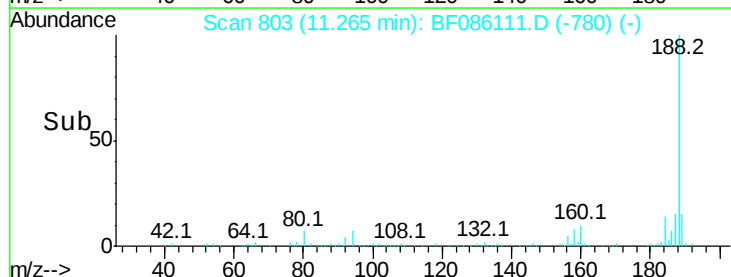
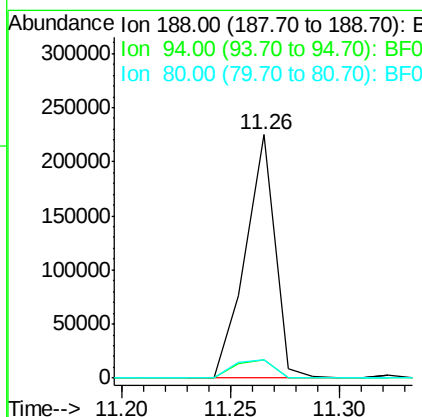
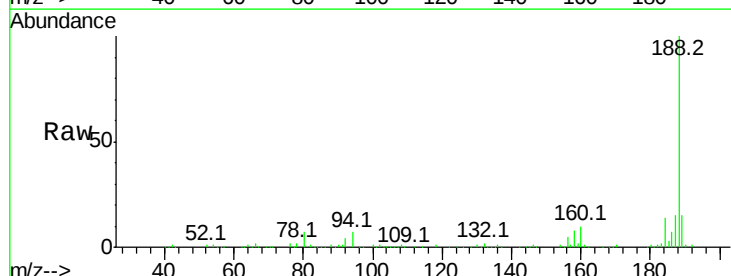
Manual Integrations  
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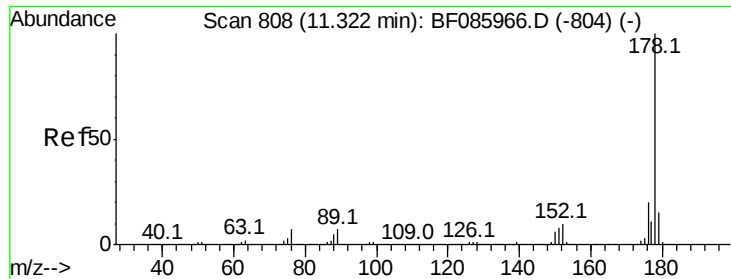
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.26 min Scan# 803  
Delta R.T. -0.03 min  
Lab File: BF086111.D  
Acq: 6 Apr 2016 21:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 7.3   | 5.4  | 8.0   |       |
| 80      | 7.4   | 5.5  | 8.3   |       |





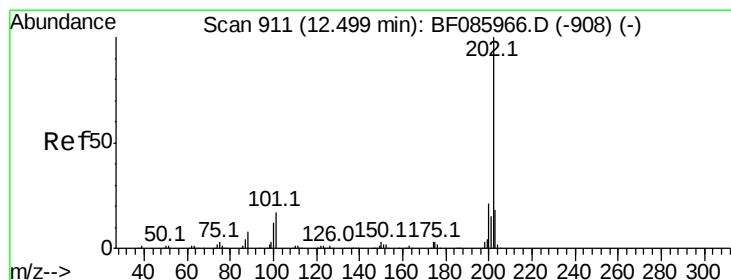
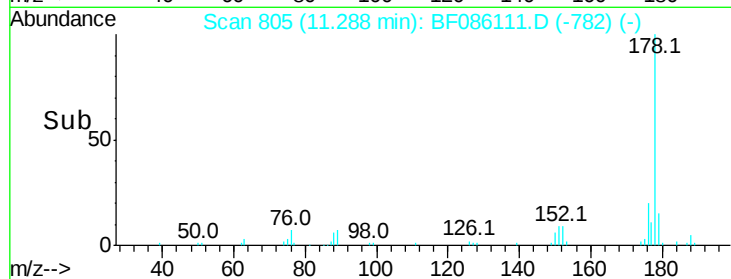
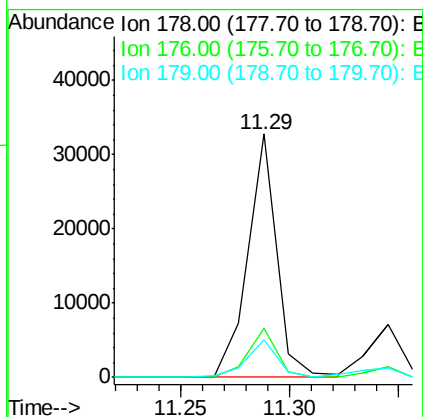
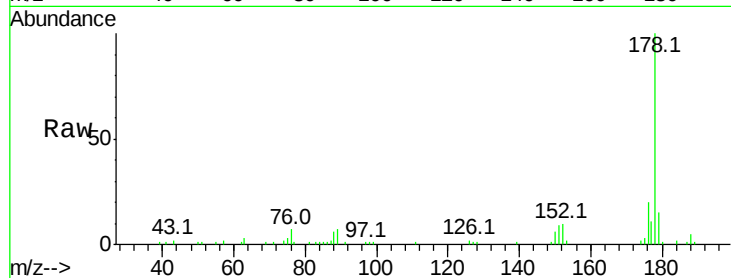
#70  
Phenanthrene  
Concen: 2.59 ng  
RT: 11.29 min Scan# 805  
Delta R.T. -0.03 min  
Lab File: BF086111.D  
Acq: 6 Apr 2016 21:29

Instrument :  
BNA\_F  
ClientSampleId :  
SB01B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.0  | 16.3  | 24.5  |
| 179     | 15.2  | 12.6  | 18.8  |

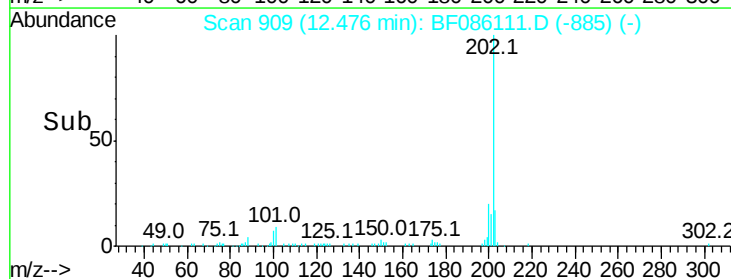
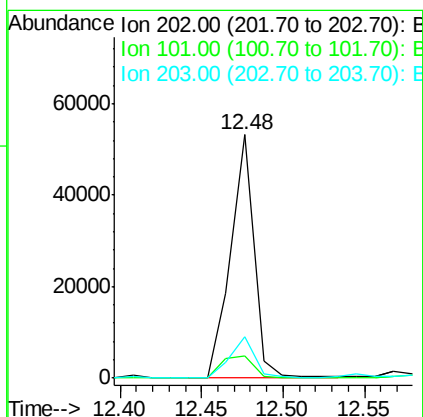
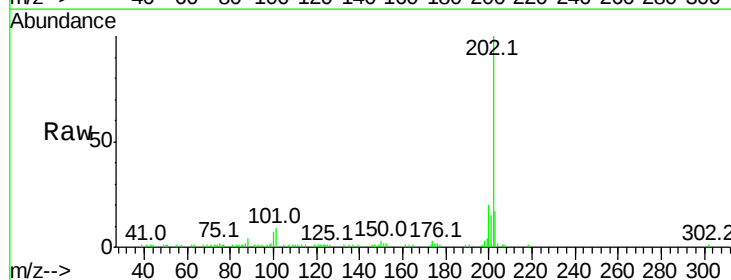
Manual Integrations  
APPROVED

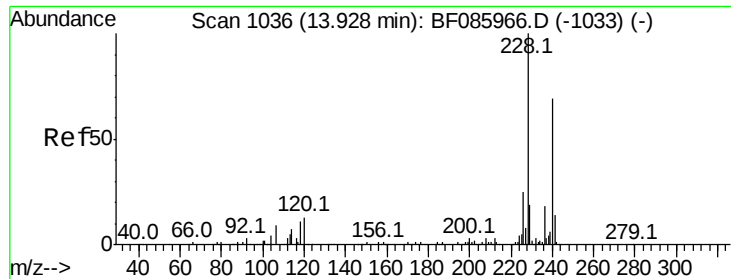
Sohil  
4/7/2016 8:59:12 AM



#74  
Fluoranthene  
Concen: 4.35 ng  
RT: 12.48 min Scan# 909  
Delta R.T. -0.02 min  
Lab File: BF086111.D  
Acq: 6 Apr 2016 21:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.9   | 0.0   | 36.6  |
| 203     | 17.0  | 0.0   | 38.1  |





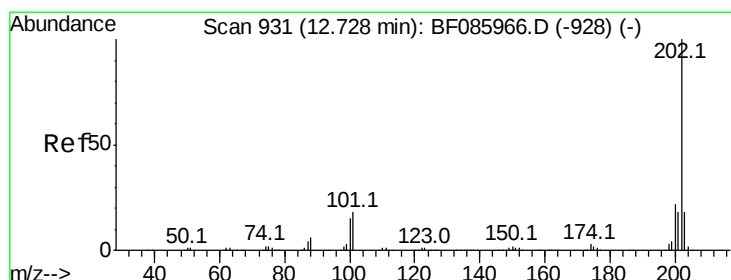
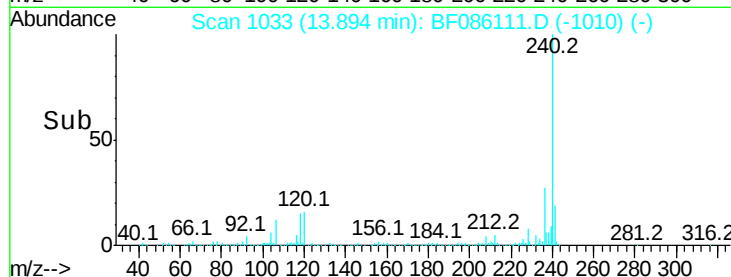
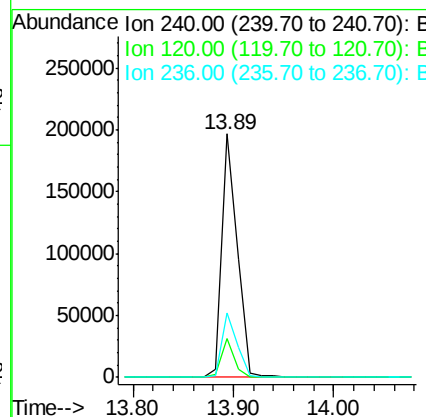
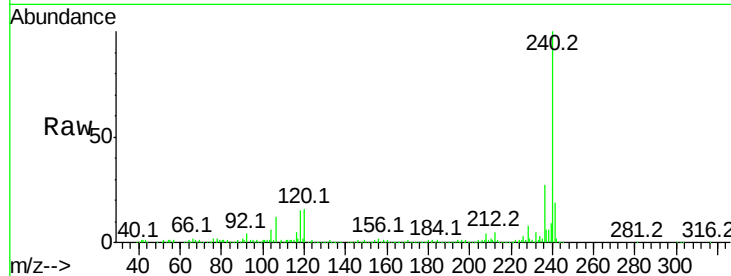
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.89 min Scan# 1033  
 Delta R.T. -0.03 min  
 Lab File: BF086111.D  
 Acq: 6 Apr 2016 21:29

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB01B

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 211183 |       |       |
| 120     | 16.1  | 13.8   | 20.8  |       |
| 236     | 26.5  | 20.6   | 30.8  |       |

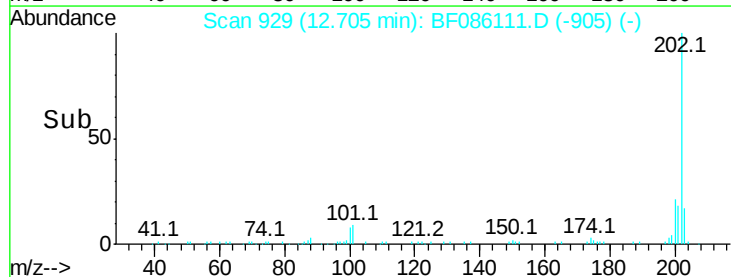
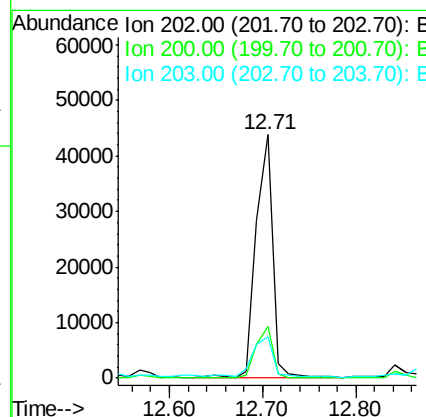
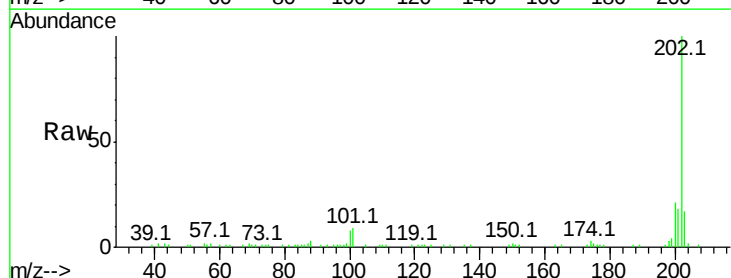
Manual Integrations  
 APPROVED

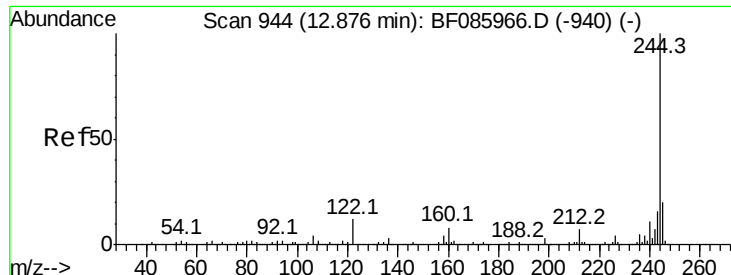
Sohil  
 4/7/2016 8:59:12 AM



#77  
 Pyrene  
 Concen: 3.67 ng  
 RT: 12.71 min Scan# 929  
 Delta R.T. -0.02 min  
 Lab File: BF086111.D  
 Acq: 6 Apr 2016 21:29

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 54650 |       |       |
| 200     | 21.1  | 17.6  | 26.4  |       |
| 203     | 17.2  | 14.0  | 21.0  |       |





#78

Terphenyl-d14

Concen: 65.62 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

Instrument :

BNA\_F

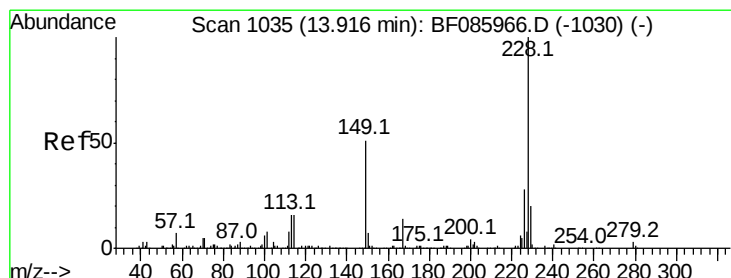
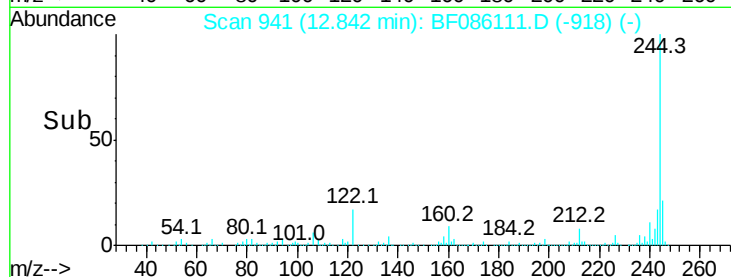
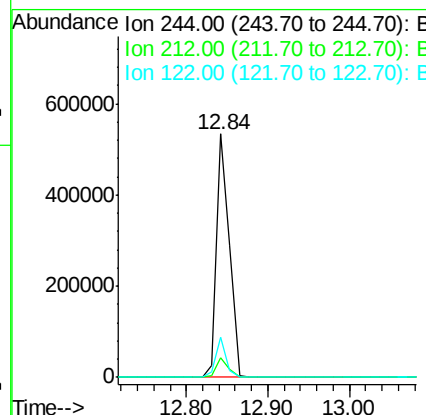
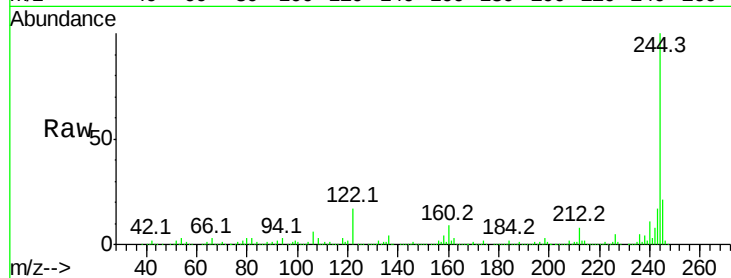
ClientSampleId :

SB01B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 244     | 100   |      |       |       |
| 212     | 8.0   | 6.1  | 9.1   |       |
| 122     | 16.5  | 10.2 | 15.4  |       |

Manual Integrations  
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#80

Benzo(a)anthracene

Concen: 2.25 ng

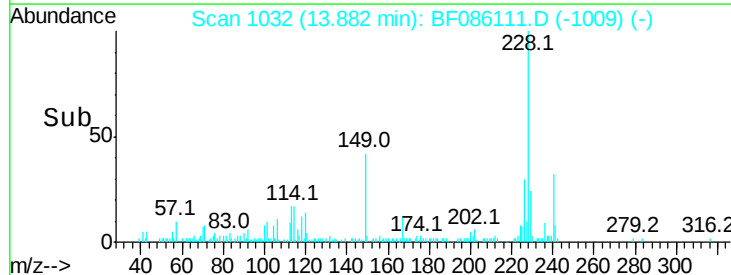
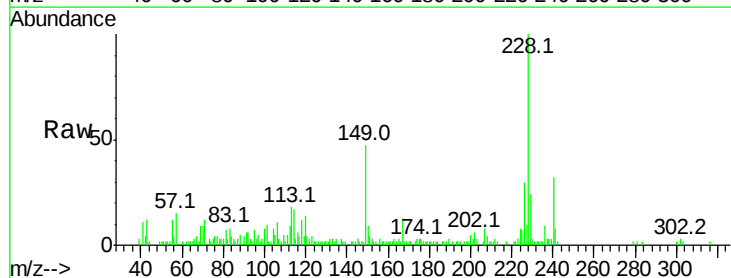
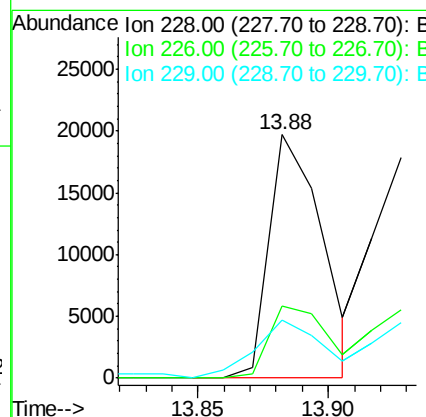
RT: 13.88 min Scan# 1032

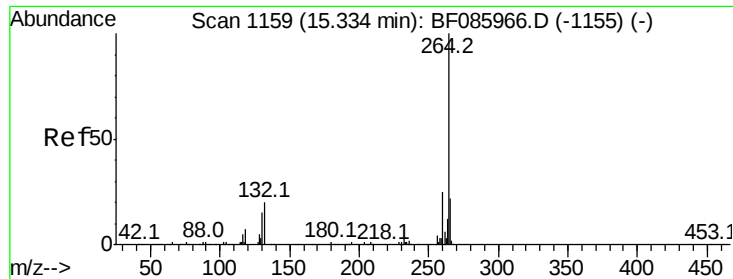
Delta R.T. -0.03 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   |      |       |       |
| 226     | 29.7  | 22.1 | 33.1  |       |
| 229     | 23.7  | 16.2 | 24.4  |       |





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.30 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

Instrument :

BNA\_F

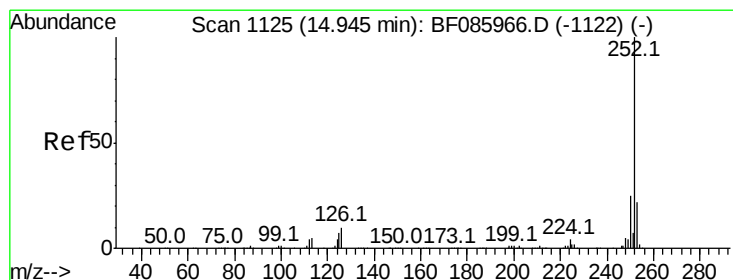
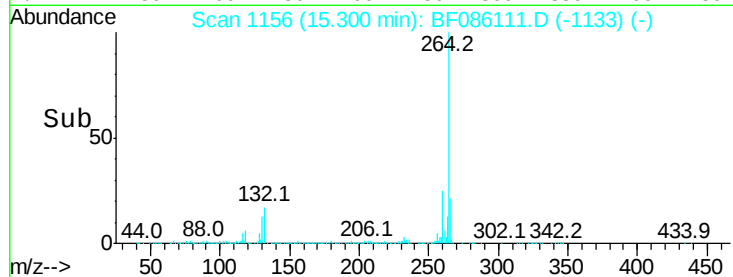
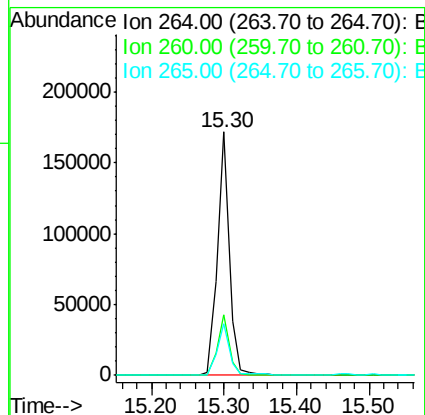
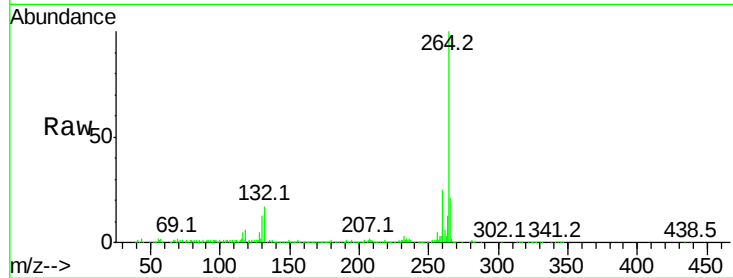
ClientSampleId :

SB01B

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 264  | Resp: | 199271 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 25.0 | 19.4  | 29.2   |
| 265       | 21.4 | 17.2  | 25.8   |

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4/7/2016 8:59:12 AM



#87

Benzo(b)fluoranthene

Concen: 2.33 ng m

RT: 14.91 min Scan# 1122

Delta R.T. -0.03 min

Lab File: BF086111.D

Acq: 6 Apr 2016 21:29

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 29269 |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 24.7 | 17.6  | 26.4  |
| 125       | 16.0 | 10.3  | 15.5# |

