

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071316\  
 Data File : BF088972.D  
 Acq On : 13 Jul 2016 22:07  
 Operator : UM/SJ  
 Sample : H3981-15  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C4.2-8

## Manual Integrations

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 7/14/2016 4:19:54 AM

Quant Time: Jul 14 01:55:58 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 14 01:23:58 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 68737    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.98  | 136  | 241072   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.72  | 164  | 98670    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.20 | 188  | 154426   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.83 | 240  | 122284   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.20 | 264  | 119608   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 594102   | 129.53 | ng    | 0.01     |
| 7) Phenol-d6                | 6.35  | 99   | 780438   | 131.69 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 501695   | 109.06 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.51 | 330  | 128036   | 139.74 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 698989   | 111.90 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.79 | 244  | 379371   | 69.10  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.45  | 163  | 189779   | 27.00  | ng    | 99       |
| 74) Fluoranthene            | 12.41 | 202  | 24033    | 2.81   | ng    | 94       |
| 77) Pyrene                  | 12.64 | 202  | 23691    | 2.28   | ng    | 97       |
| 82) Chrysene                | 13.85 | 228  | 18567m   | 2.38   | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.82 | 252  | 24615m   | 3.28   | ng    |          |

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

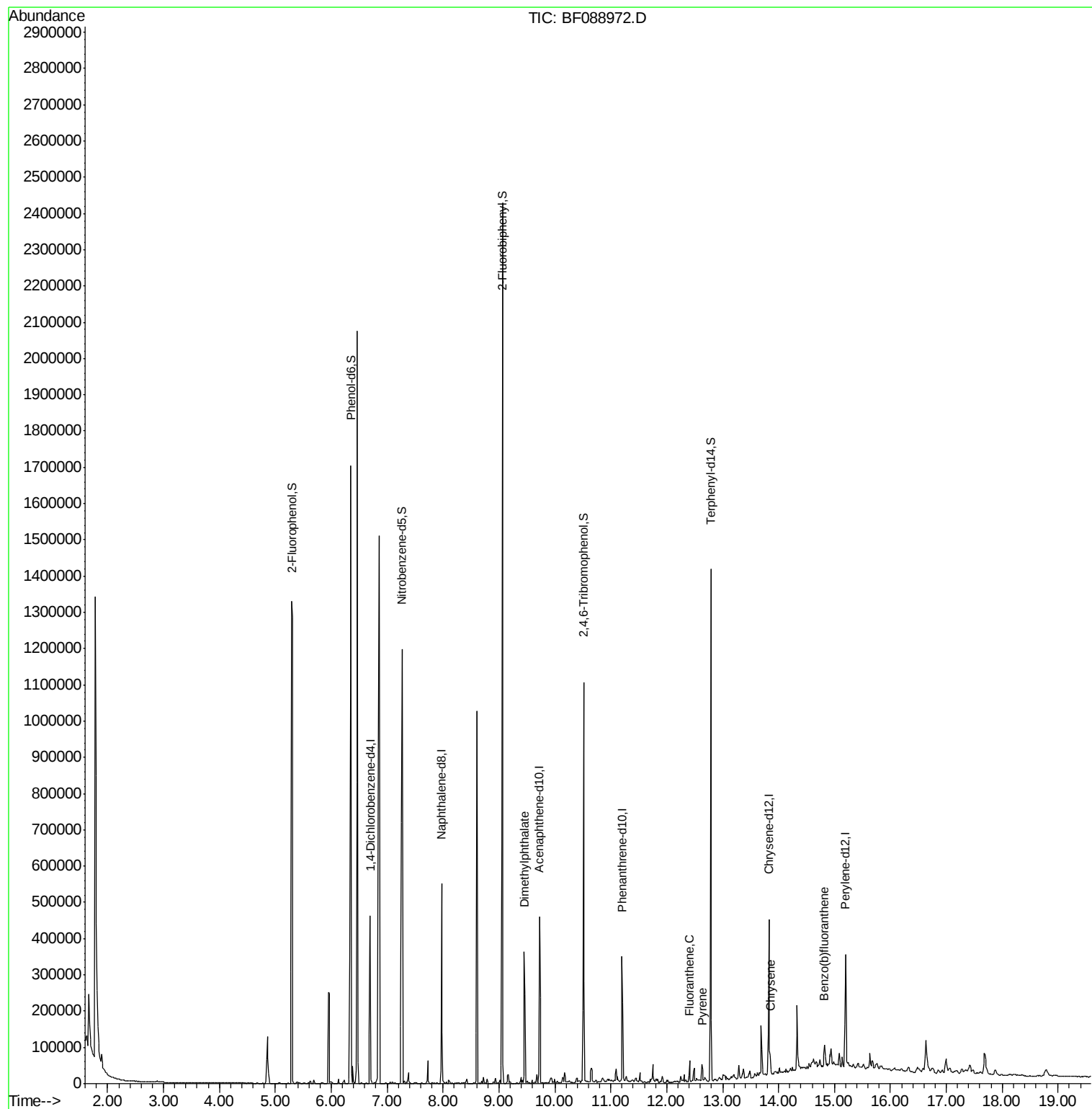
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071316\  
Data File : BF088972.D  
Acq On : 13 Jul 2016 22:07  
Operator : UM/SJ  
Sample : H3981-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

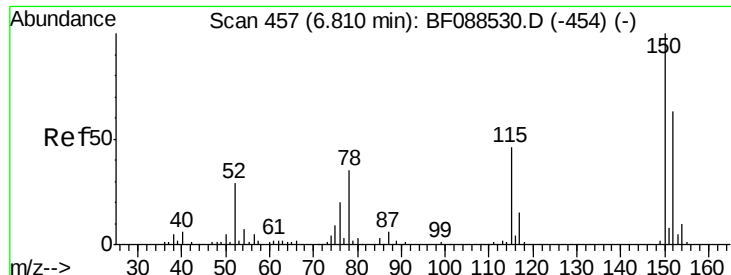
Instrument :  
BNA\_F  
ClientSampleId :  
C4.2-8

Manual Integrations

Quant Time: Jul 14 01:55:58 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 14 01:23:58 2016  
Response via : Initial Calibration

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#1

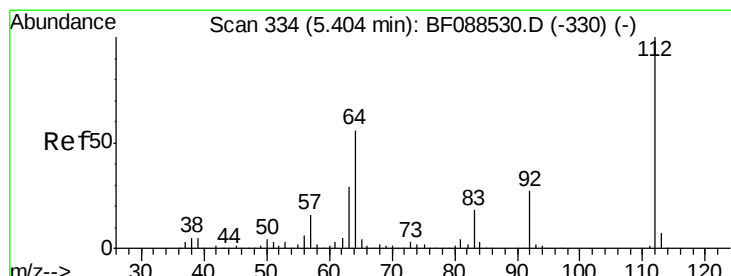
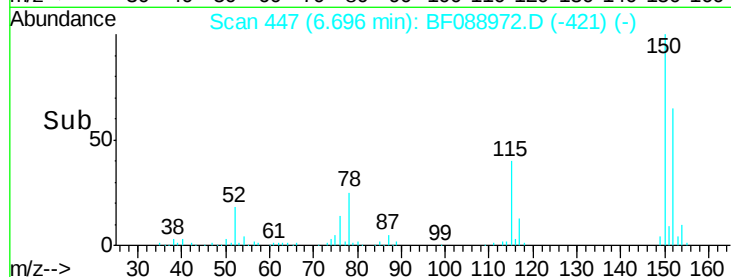
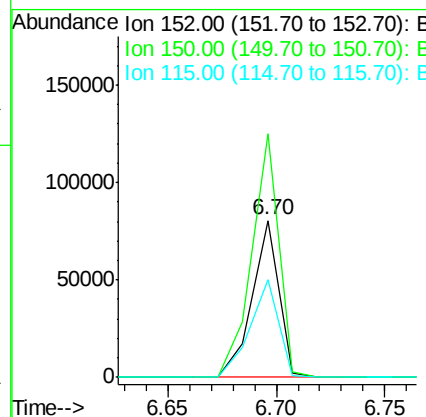
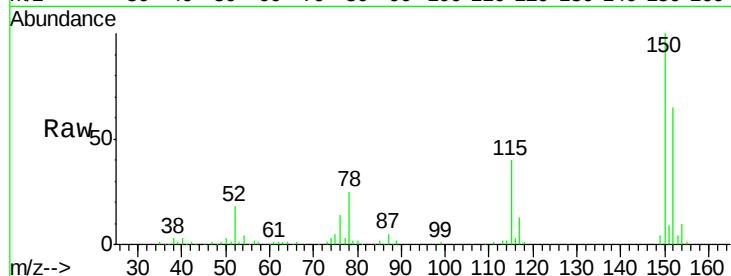
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.70 min Scan# 447  
Delta R.T. 0.00 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
C4.2-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.9 | 123.8 | 185.6 |
| 115     | 62.1  | 39.6  | 59.4  |

Manual Integrations

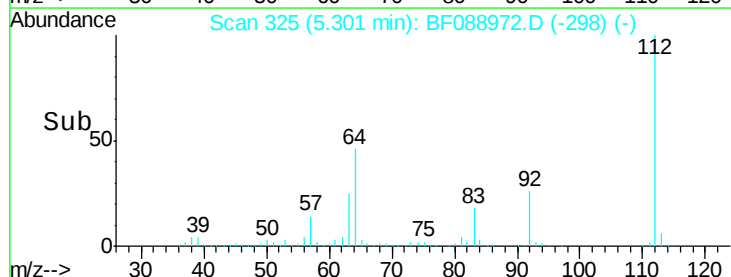
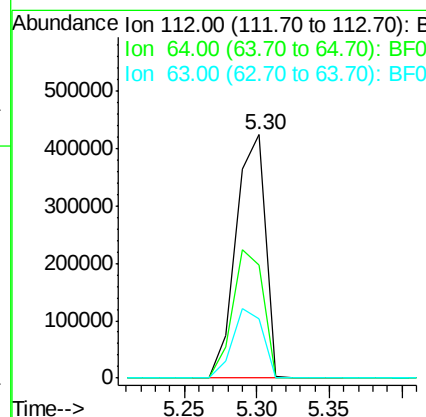
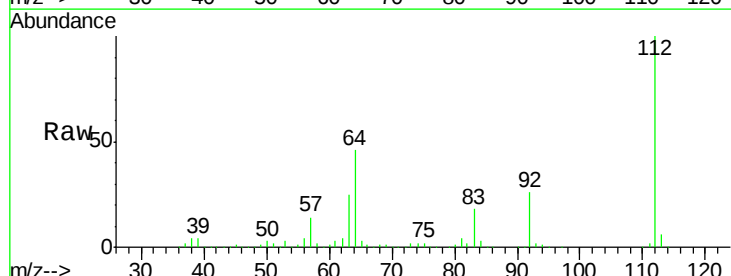
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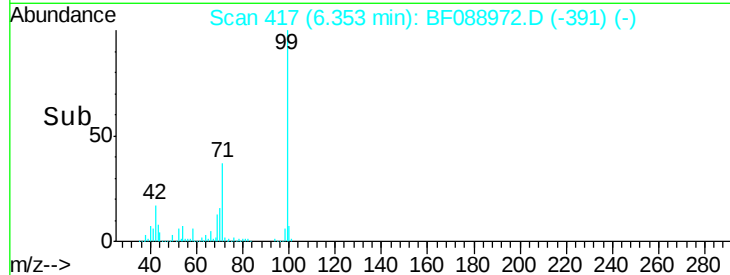
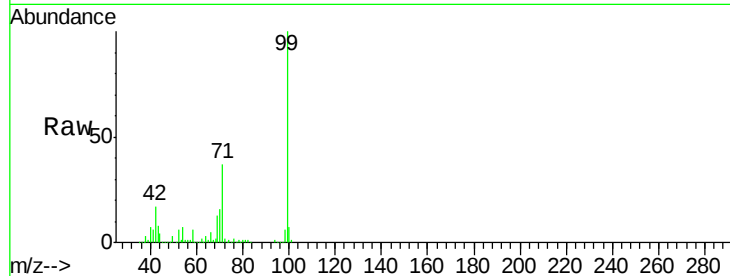
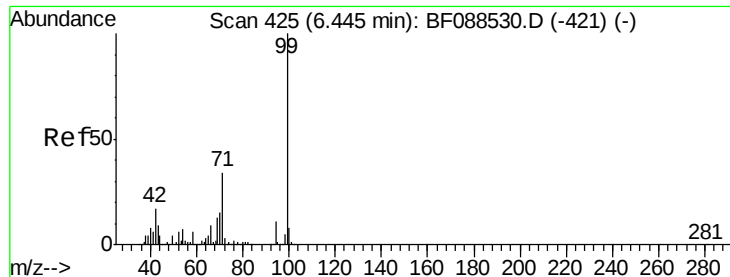


#5

2-Fluorophenol  
Concen: 129.53 ng  
RT: 5.30 min Scan# 325  
Delta R.T. 0.01 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 46.2  | 42.2  | 63.2  |
| 63      | 24.6  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 131.69 ng

RT: 6.35 min Scan# 417

Delta R.T. 0.00 min

Lab File: BF088972.D

Acq: 13 Jul 2016 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 780438 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.8  | 12.2  | 18.2   |
| 71        | 37.3  | 23.4  | 35.0#  |

Instrument :

BNA\_F

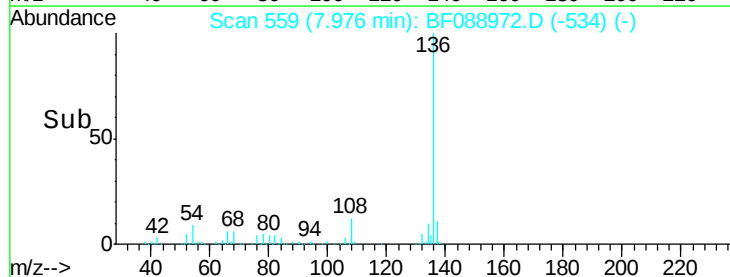
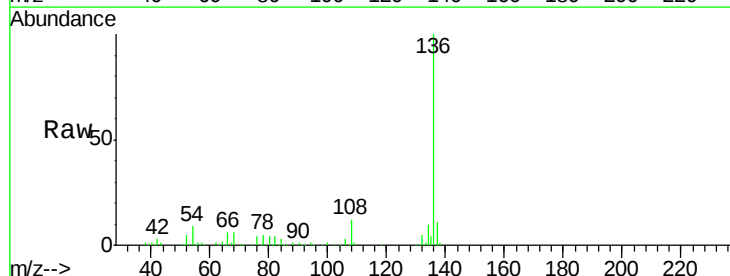
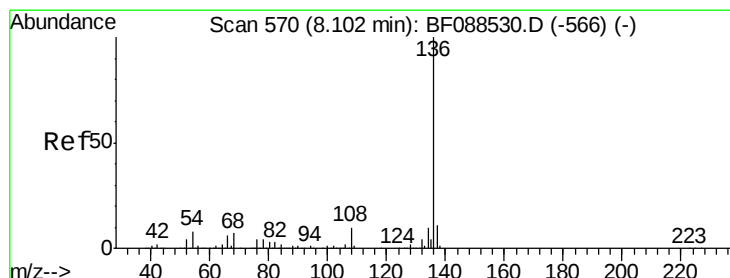
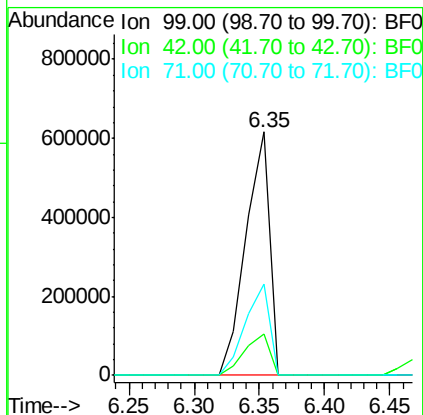
ClientSampleId :

C4.2-8

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#21

Naphthalene-d8

Concen: 20.00 ng

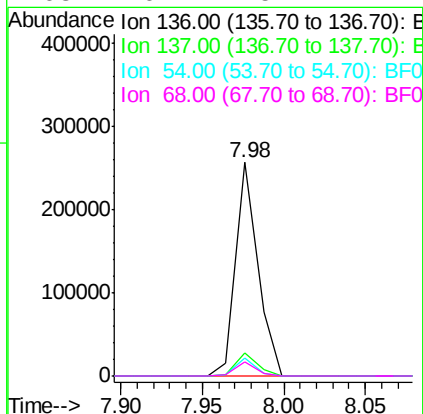
RT: 7.98 min Scan# 559

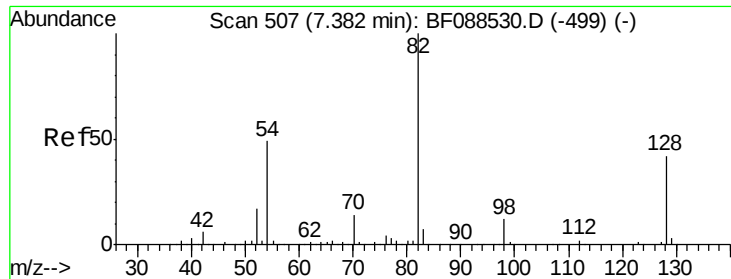
Delta R.T. -0.01 min

Lab File: BF088972.D

Acq: 13 Jul 2016 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 241072 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 9.1   | 13.7   |
| 54        | 8.6   | 6.6   | 10.0   |
| 68        | 6.4   | 5.1   | 7.7    |





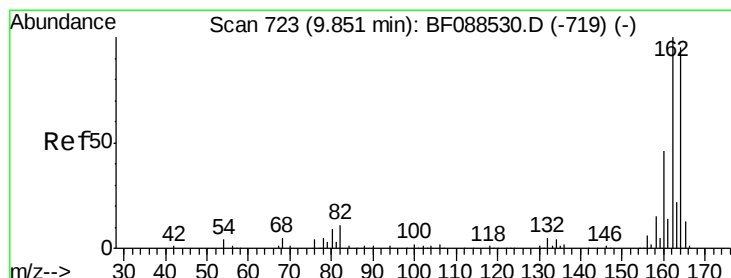
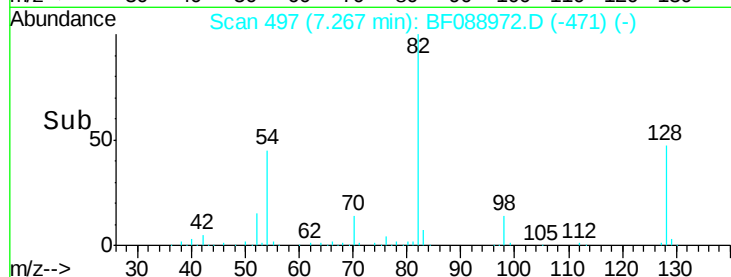
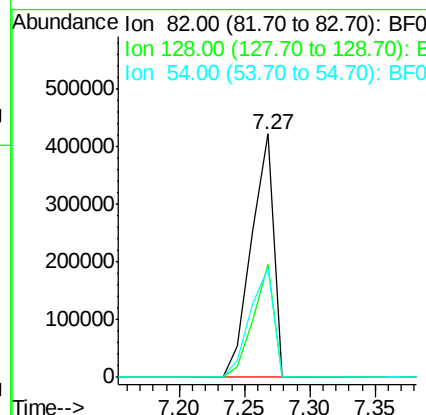
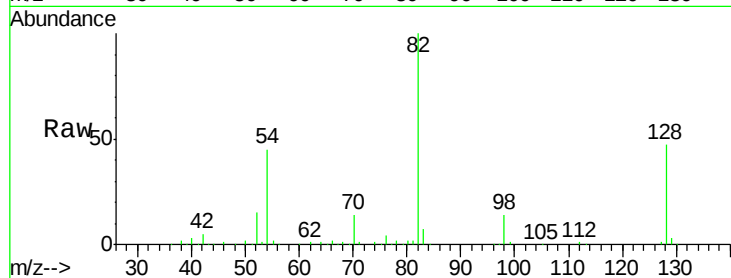
#23  
 Nitrobenzene-d5  
 Concen: 109.06 ng  
 RT: 7.27 min Scan# 497  
 Delta R.T. 0.00 min  
 Lab File: BF088972.D  
 Acq: 13 Jul 2016 22:07

Instrument :  
 BNA\_F  
 ClientSampled :  
 C4.2-8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 501695 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.6  | 35.9  | 53.9   |
| 54        | 44.8  | 40.9  | 61.3   |

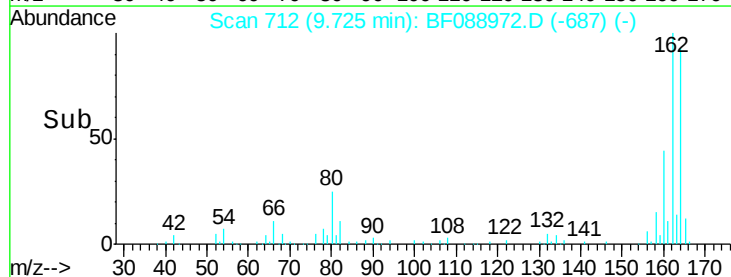
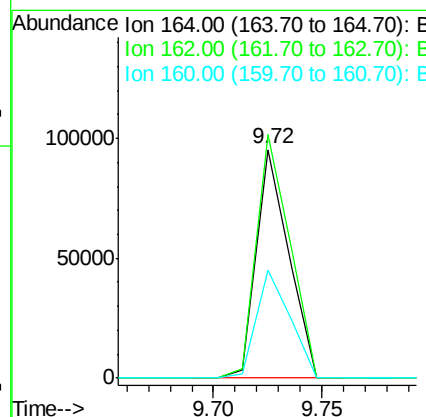
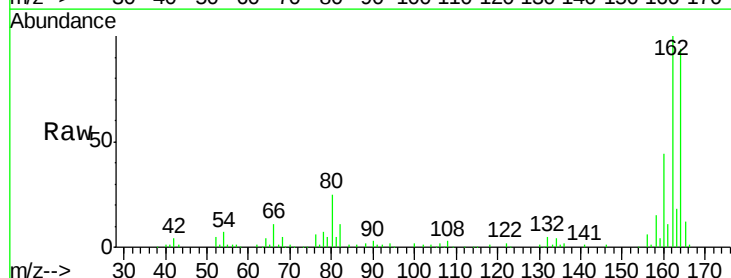
Manual Integrations

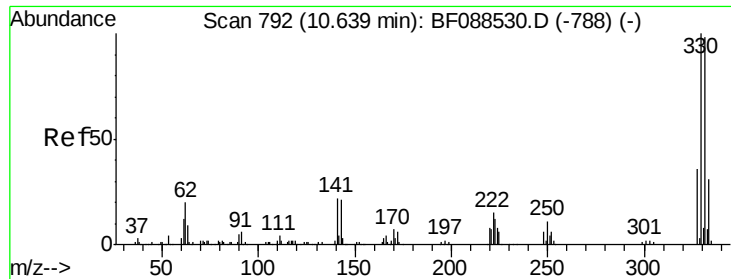
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.72 min Scan# 712  
 Delta R.T. -0.01 min  
 Lab File: BF088972.D  
 Acq: 13 Jul 2016 22:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 98670 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 106.6 | 85.4  | 128.2 |
| 160       | 47.4  | 39.5  | 59.3  |





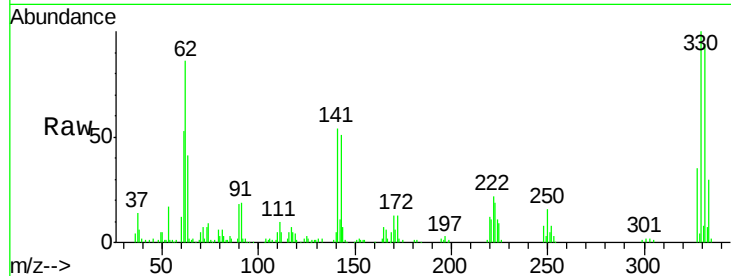
#41  
 2,4,6-Tribromophenol  
 Concen: 139.74 ng  
 RT: 10.51 min Scan# 781  
 Delta R.T. -0.01 min  
 Lab File: BF088972.D  
 Acq: 13 Jul 2016 22:07

Instrument :  
 BNA\_F  
 ClientSampled :  
 C4.2-8

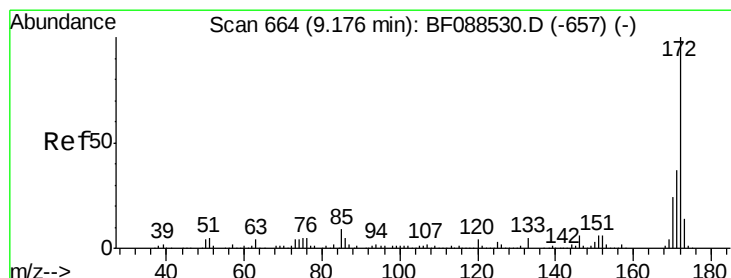
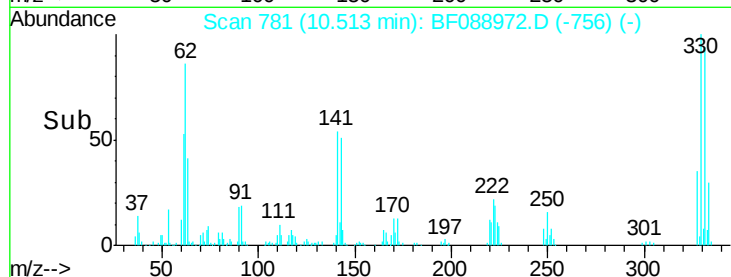
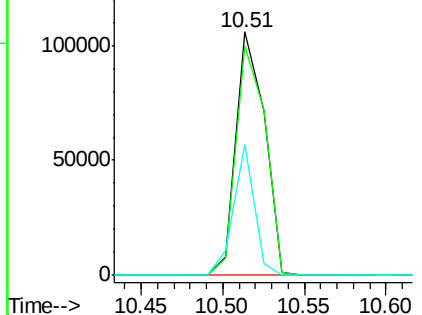
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 128036 |       |       |
| 332     | 96.8  | 0.0    | 0.0   | 0.0   |
| 141     | 39.6  | 0.0    | 0.0   | 0.0   |

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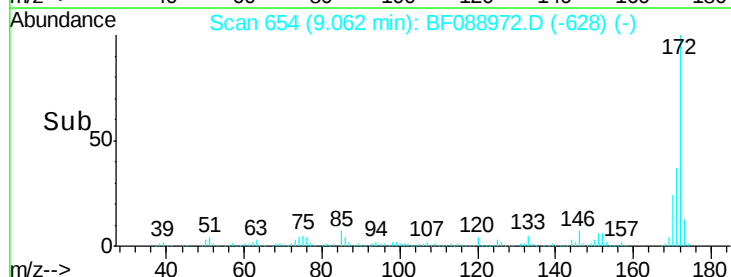
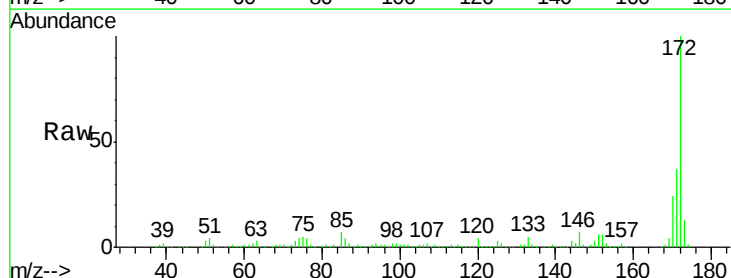
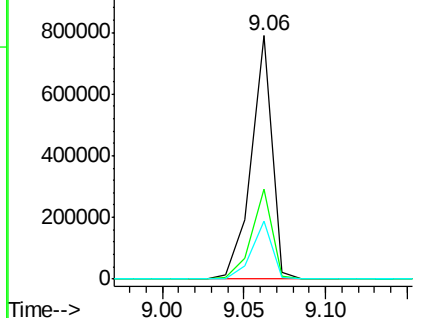
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

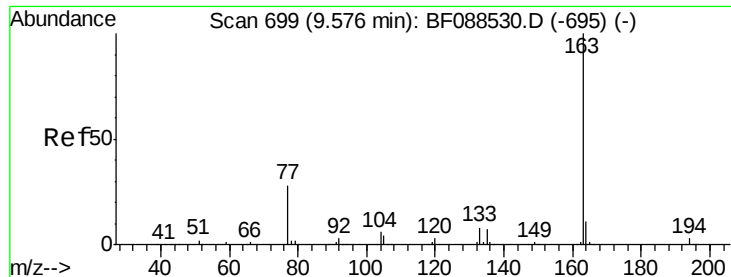


#44  
 2-Fluorobiphenyl  
 Concen: 111.90 ng  
 RT: 9.06 min Scan# 654  
 Delta R.T. 0.00 min  
 Lab File: BF088972.D  
 Acq: 13 Jul 2016 22:07

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 698989 |       |       |
| 171     | 36.8  | 28.6   | 43.0  |       |
| 170     | 23.8  | 19.2   | 28.8  |       |

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





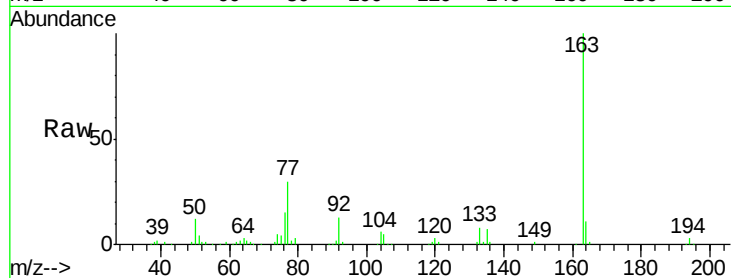
#49  
Dimethylphthalate  
Concen: 27.00 ng  
RT: 9.45 min Scan# 688  
Delta R.T. -0.02 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
C4.2-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.0   | 2.8   | 4.2   |
| 164     | 11.0  | 8.3   | 12.5  |

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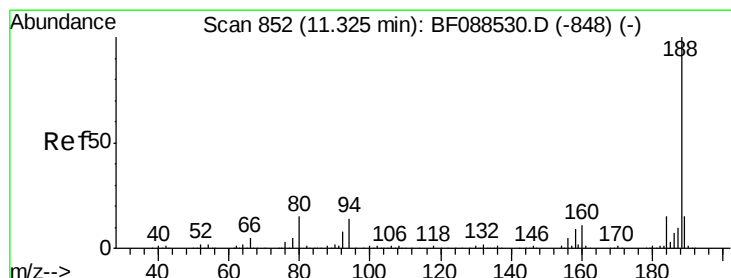
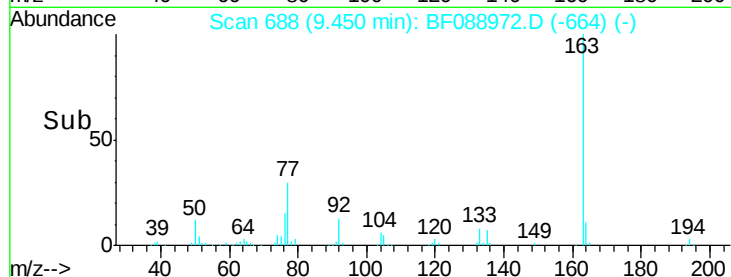
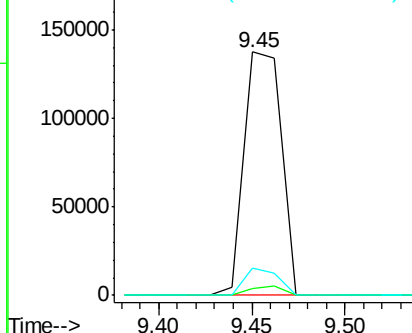


Abundance

Ion 163.00 (162.70 to 163.70): E

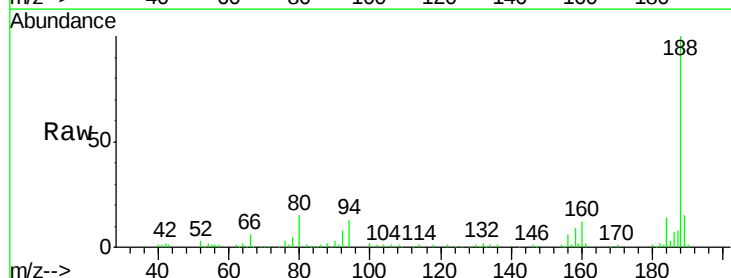
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.20 min Scan# 841  
Delta R.T. -0.01 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 13.0  | 9.0   | 13.6  |
| 80      | 15.1  | 10.0  | 15.0# |

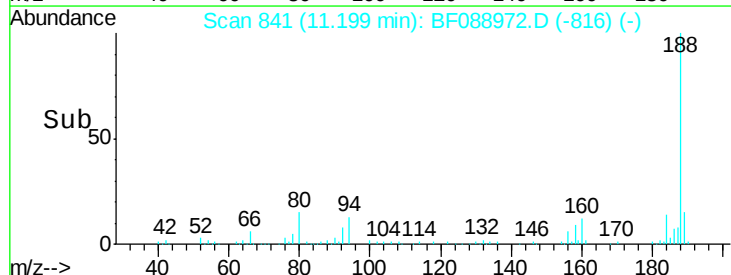
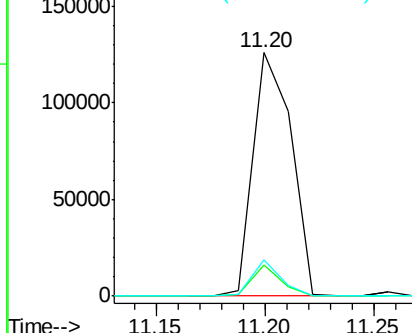


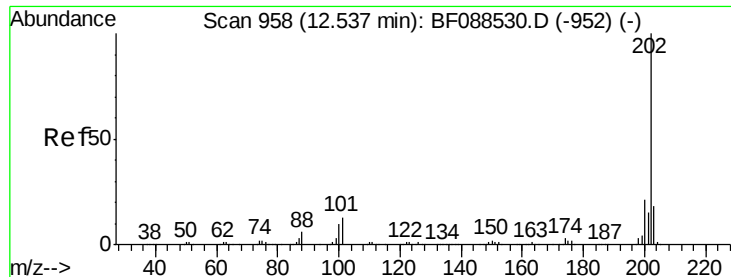
Abundance

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





#74

Fluoranthene

Concen: 2.81 ng

RT: 12.41 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF088972.D

Acq: 13 Jul 2016 22:07

Instrument :

BNA\_F

ClientSampleId :

C4.2-8

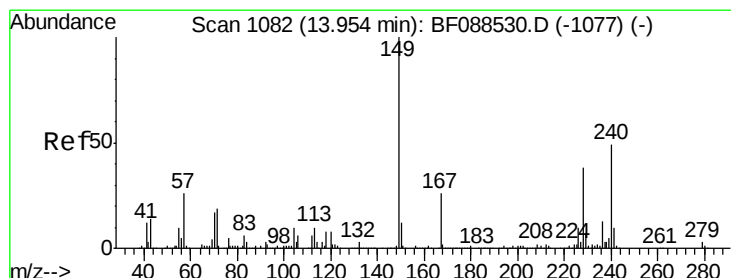
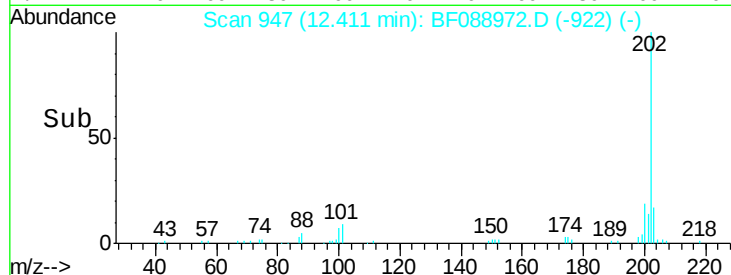
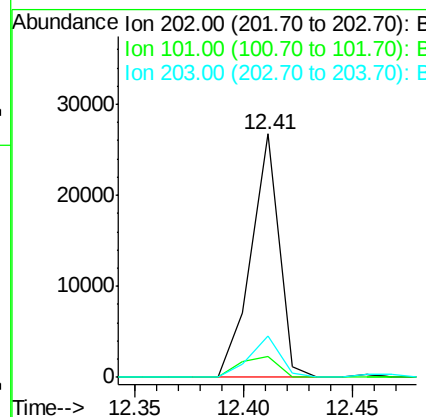
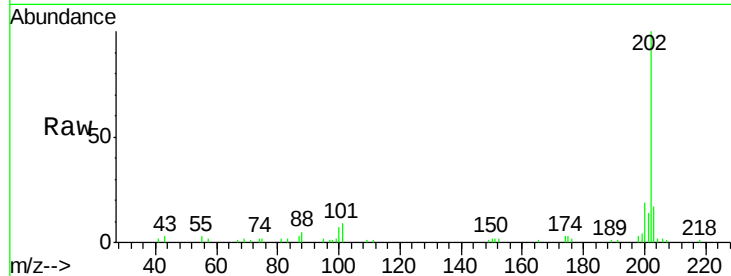
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 24033 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.5   | 0.0   | 33.1  |
| 203       | 17.2  | 0.0   | 38.1  |

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#75

Chrysene-d12

Concen: 20.00 ng

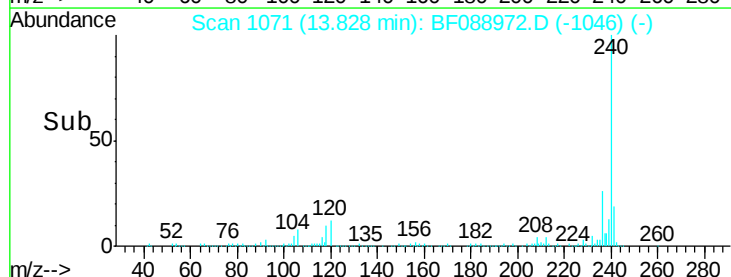
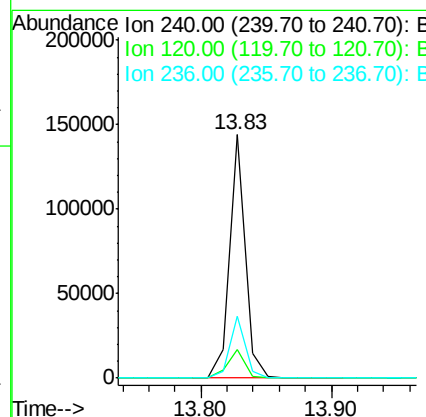
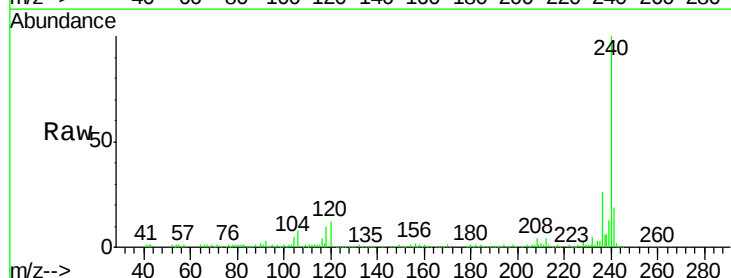
RT: 13.83 min Scan# 1071

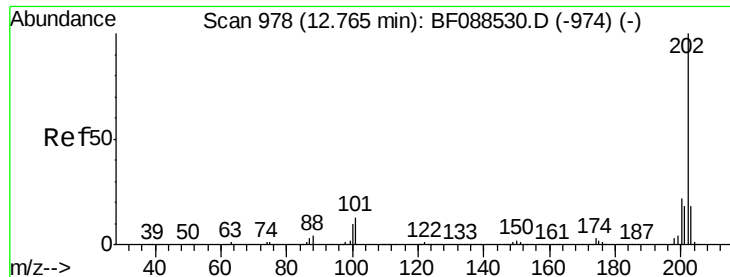
Delta R.T. -0.01 min

Lab File: BF088972.D

Acq: 13 Jul 2016 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 122284 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.5  | 6.8   | 10.2#  |
| 236       | 25.5  | 20.2  | 30.2   |





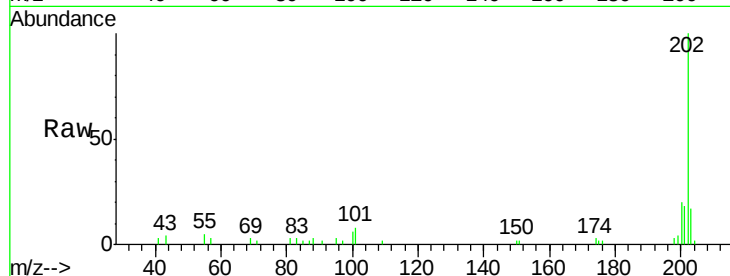
#77  
Pvrene  
Concen: 2.28 ng  
RT: 12.64 min Scan# 967  
Delta R.T. 0.00 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
C4.2-8

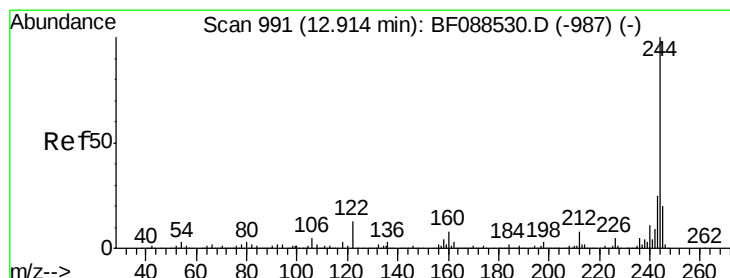
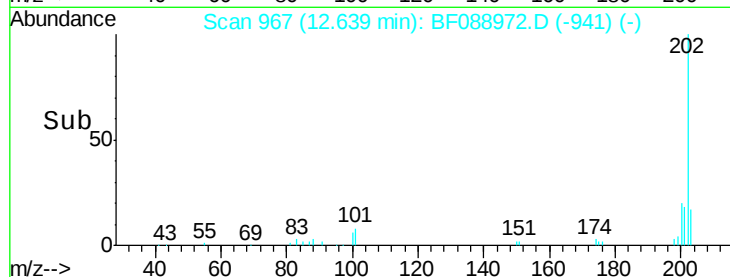
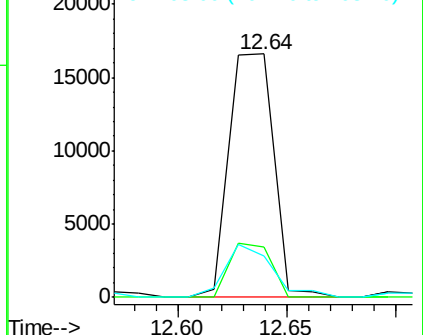
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.5  | 17.4  | 26.2  |
| 203     | 17.0  | 14.5  | 21.7  |

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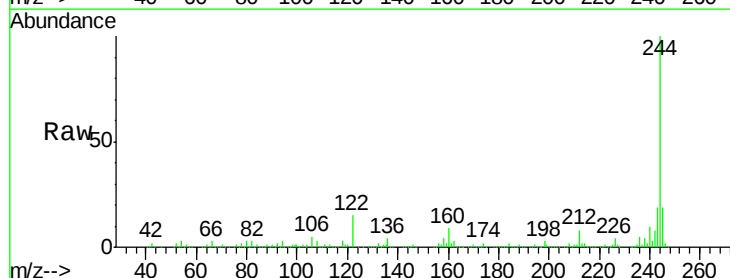


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

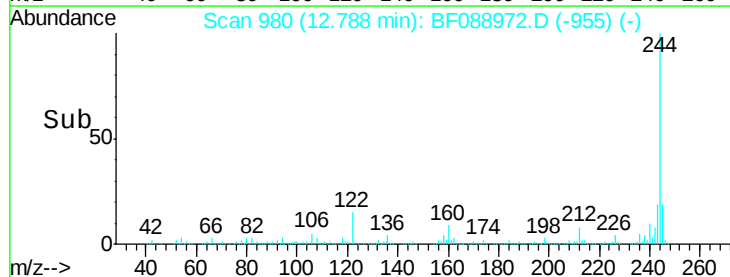
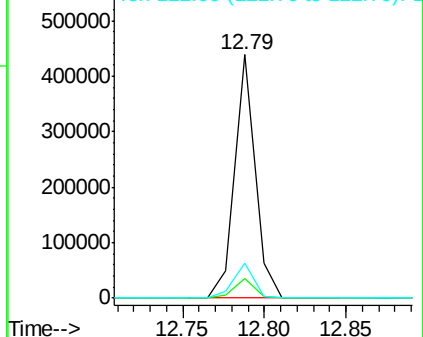


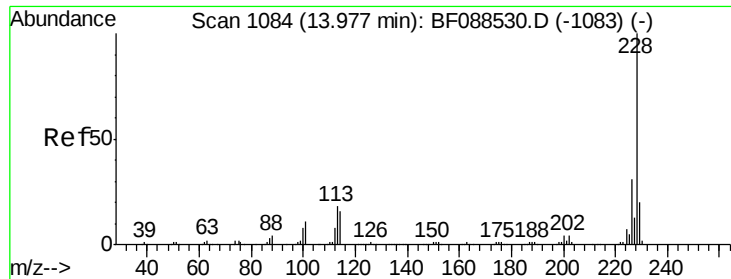
#78  
Terphenyl-d14  
Concen: 69.10 ng  
RT: 12.79 min Scan# 980  
Delta R.T. -0.01 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.0   | 6.0   | 9.0   |
| 122     | 14.5  | 11.2  | 16.8  |



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





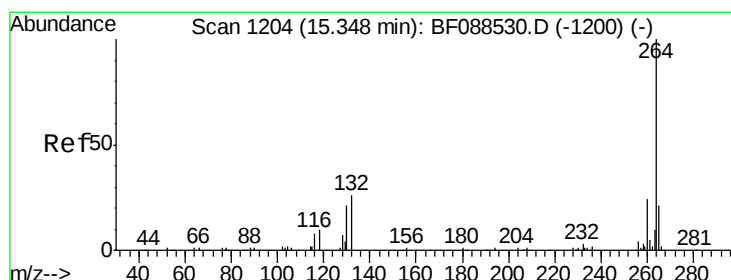
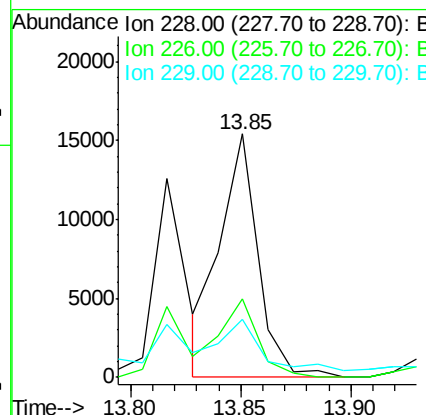
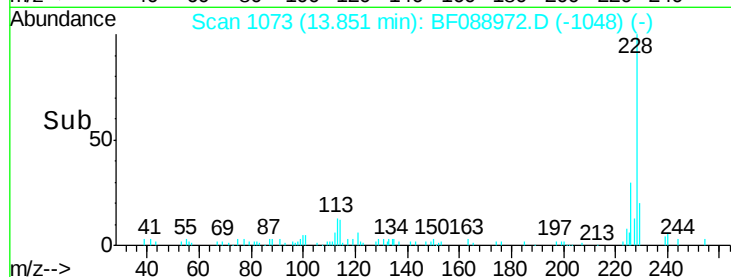
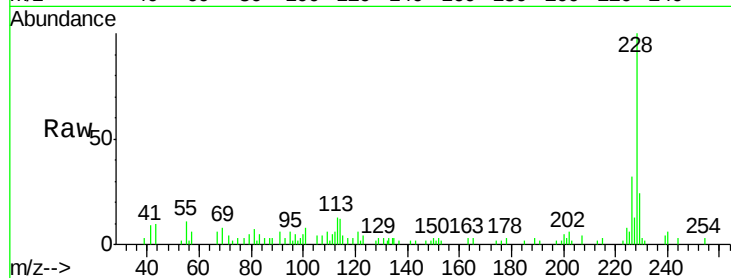
#82  
Chrysene  
Concen: 2.38 ng/ml  
RT: 13.85 min Scan# 1073  
Delta R.T. -0.01 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
C4.2-8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 18567 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 32.5  | 25.4  | 38.2  |
| 229       | 23.6  | 16.3  | 24.5  |

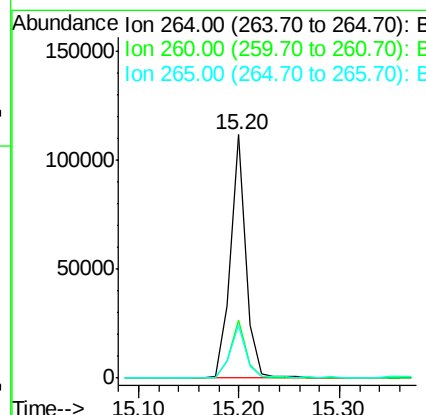
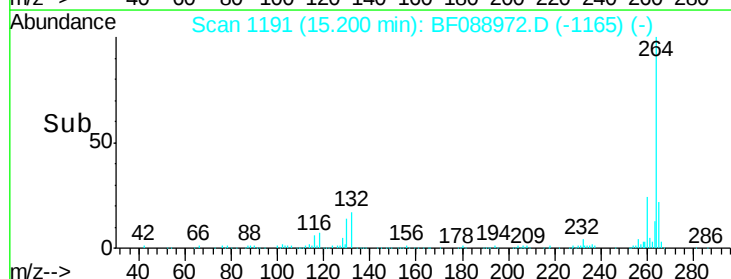
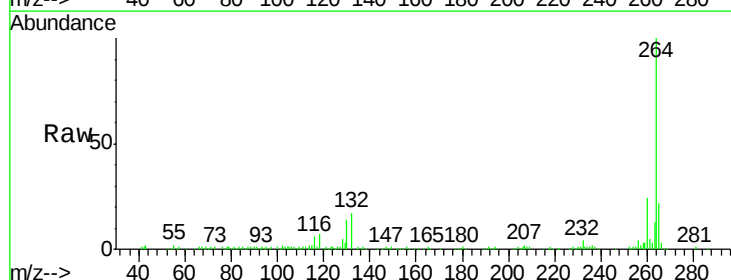
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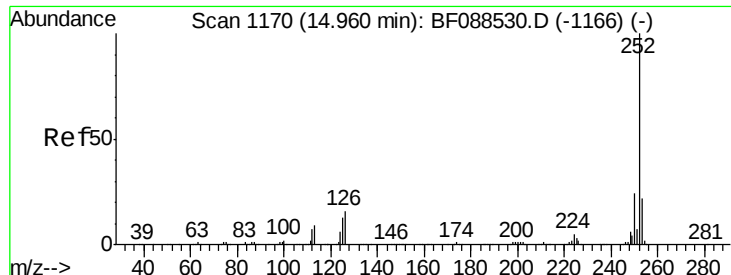
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.20 min Scan# 1191  
Delta R.T. 0.00 min  
Lab File: BF088972.D  
Acq: 13 Jul 2016 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 119608 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.9  | 19.2  | 28.8   |
| 265       | 21.7  | 16.9  | 25.3   |





#87  
 Benzo(b)fluoranthene  
 Concen: 3.28 ng m  
 RT: 14.82 min Scan# 1158  
 Delta R.T. -0.01 min  
 Lab File: BF088972.D  
 Acq: 13 Jul 2016 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C4.2-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.4  | 26.2  |
| 125     | 14.5  | 7.1   | 10.7  |

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