

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072617\  
 Data File : BF097101.D  
 Acq On : 27 Jul 2017 3:15  
 Operator : SJ/JU  
 Sample : I4391-04  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-02-072117-B

Manual Integrations  
 APPROVED

Sohil  
 7/27/2017 12:31:36 PM

Quant Time: Jul 27 09:28:05 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 96315    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.78  | 136  | 369584   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.52  | 164  | 141611   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.00 | 188  | 201572   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.63 | 240  | 191203   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 14.98 | 264  | 136251   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.10  | 112  | 652067   | 102.06 | ng    | 0.00     |
| 7) Phenol-d6                | 6.16  | 99   | 767937   | 105.28 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 440486   | 69.92  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.31 | 330  | 111413   | 99.58  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.86  | 172  | 765795   | 91.77  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.59 | 244  | 472707   | 50.41  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.26  | 163  | 66545    | 6.188  | ng    | 99       |
| 70) Phenanthrene            | 11.02 | 178  | 30083    | 2.785  | ng    | 96       |
| 74) Fluoranthene            | 12.20 | 202  | 78779    | 7.446  | ng    | 95       |
| 77) Pyrene                  | 12.43 | 202  | 81771    | 5.224  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.62 | 228  | 30754    | 2.486  | ng    | 97       |
| 82) Chrysene                | 13.65 | 228  | 33393    | 2.764  | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 14.62 | 252  | 35820m   | 4.373  | ng    |          |
| 89) Benzo(a)pyrene          | 14.93 | 252  | 24013    | 3.203  | ng    | # 91     |
| 91) Benzo(g,h,i)perylene    | 16.57 | 276  | 15090    | 2.341  | ng    | # 87     |

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

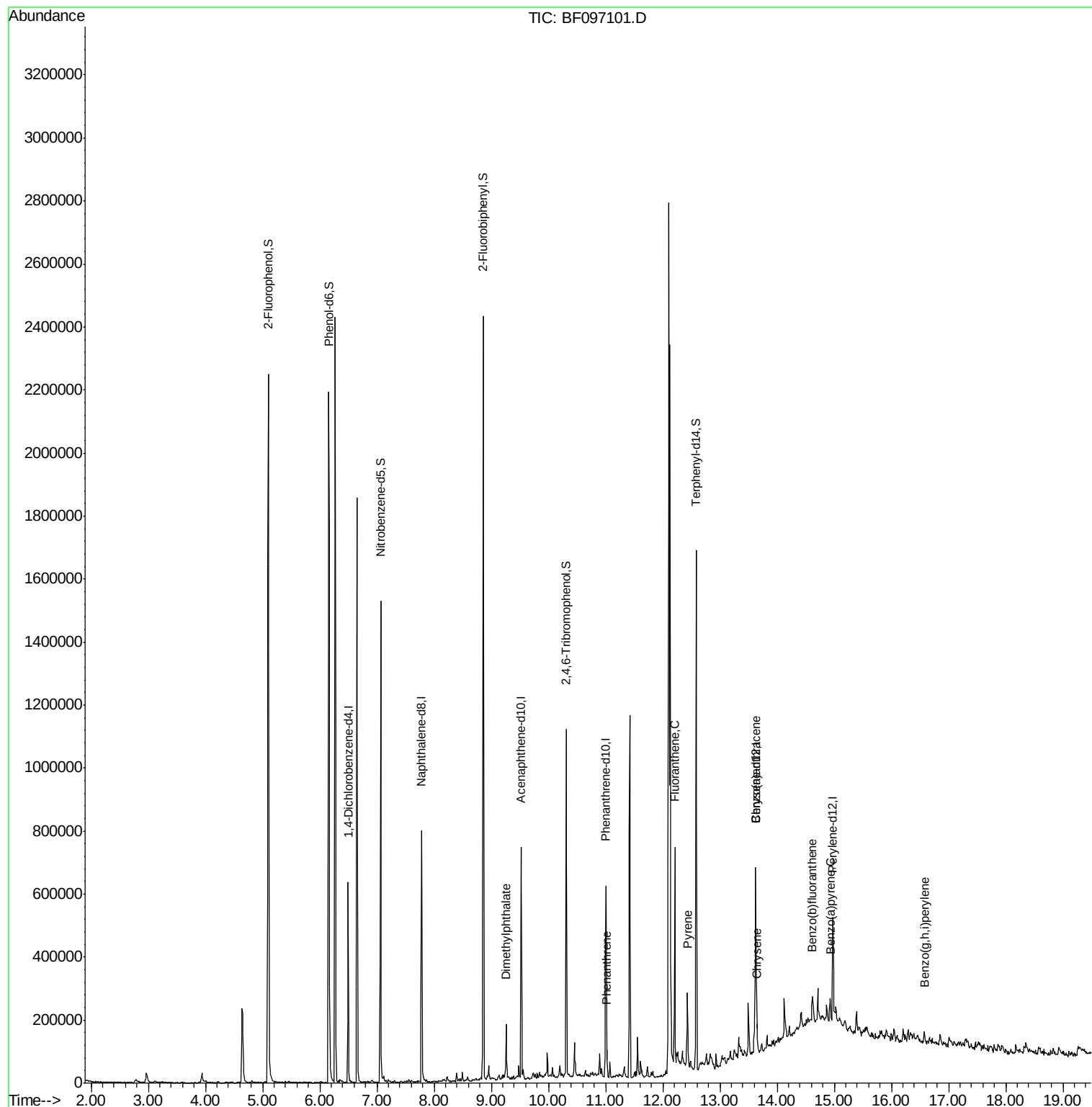
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072617\  
Data File : BF097101.D  
Acq On : 27 Jul 2017 3:15  
Operator : SJ/JU  
Sample : I4391-04  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

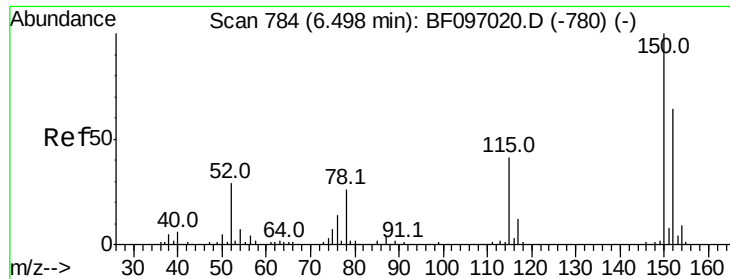
Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-072117-B

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Quant Time: Jul 27 09:28:05 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 14:11:51 2017  
Response via : Initial Calibration





#1

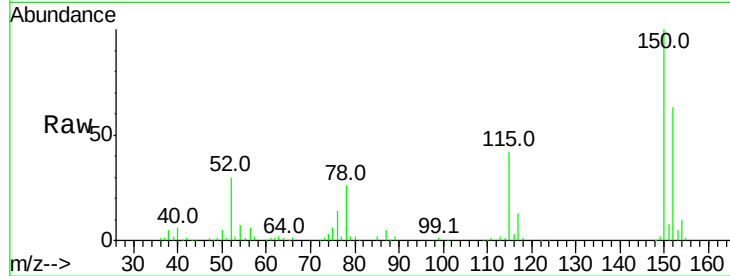
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.49 min Scan# 783  
Delta R.T. -0.01 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-072117-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 126.2 | 189.2 |
| 115     | 67.0  | 52.2  | 78.2  |

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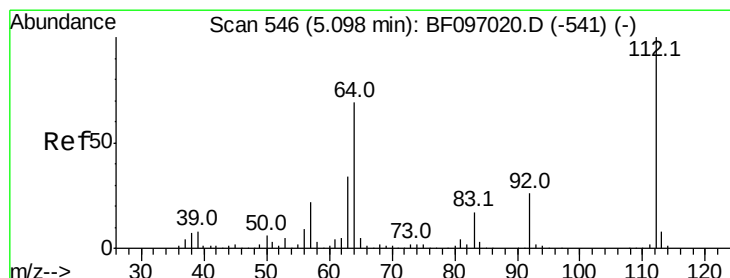
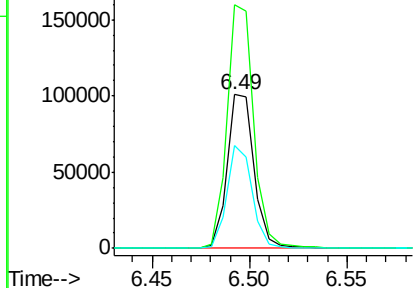
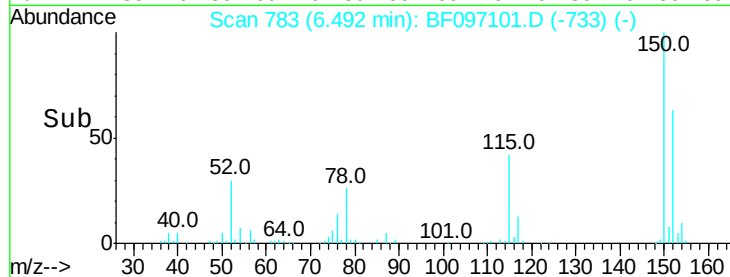


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

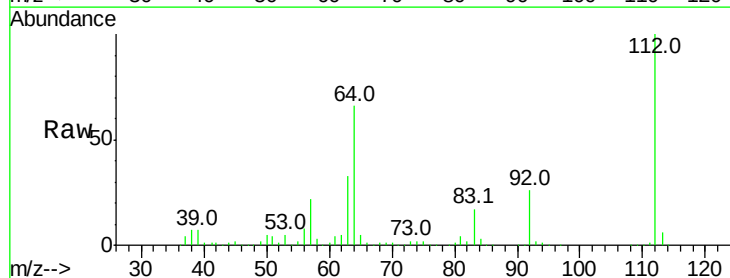
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 102.059 ng  
RT: 5.10 min Scan# 546  
Delta R.T. 0.00 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.3  | 46.0  | 69.0  |
| 63      | 33.3  | 23.4  | 35.0  |

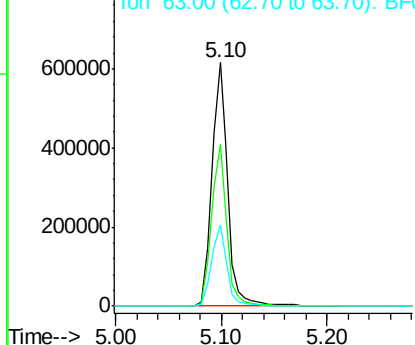
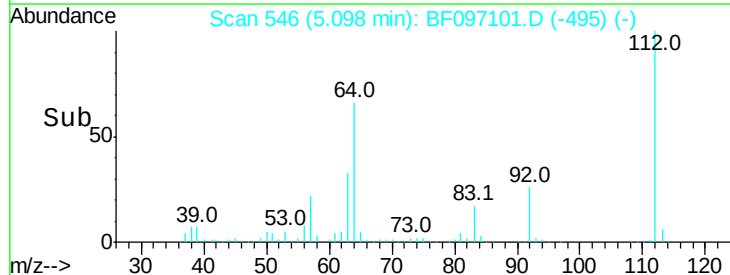


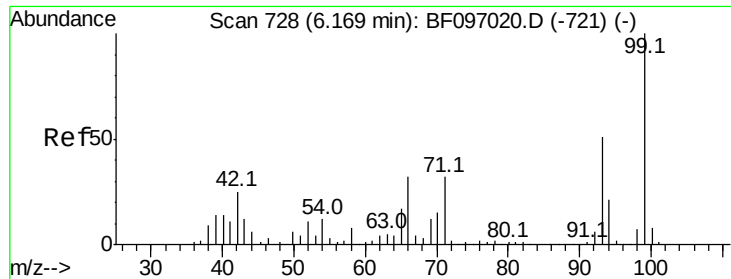
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 105.284 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

Instrument :

BNA\_F

ClientSampleId :

BU-02-072117-B

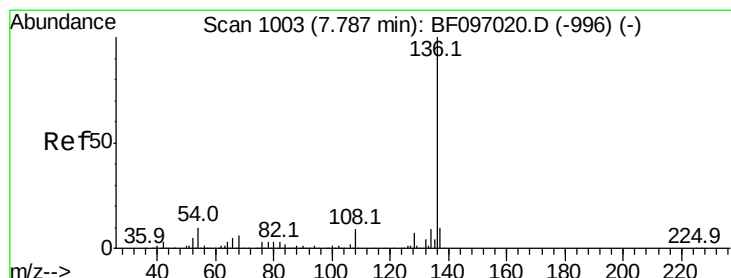
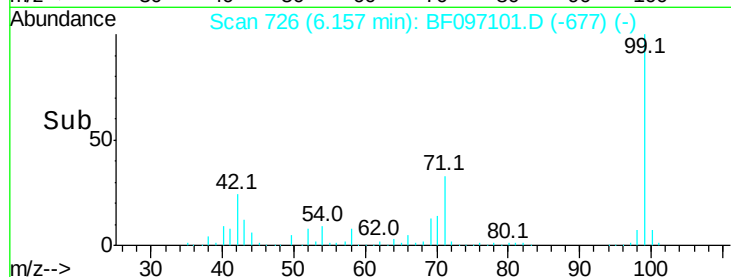
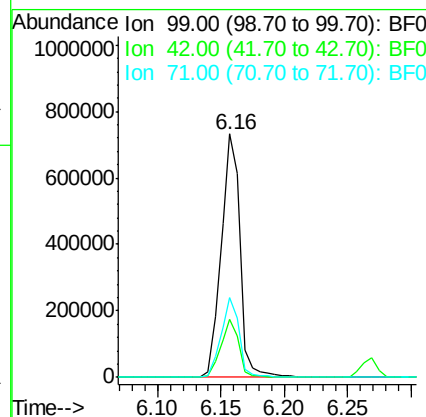
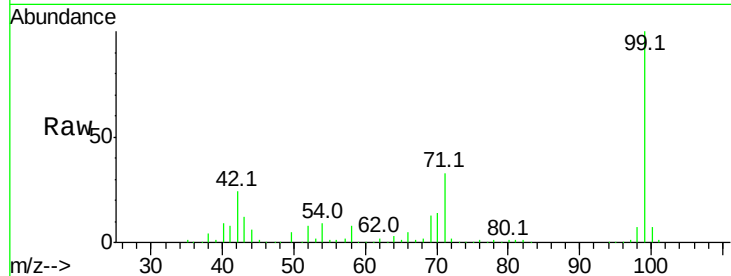
Tot Ion: 99 Resp: 767937

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 24.0  | 13.5  | 20.3# |
| 71  | 32.8  | 24.5  | 36.7  |

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.78 min Scan# 1002

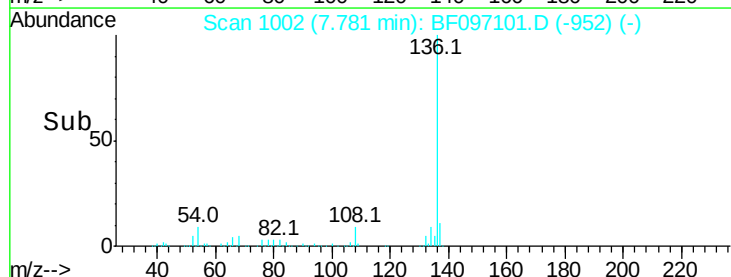
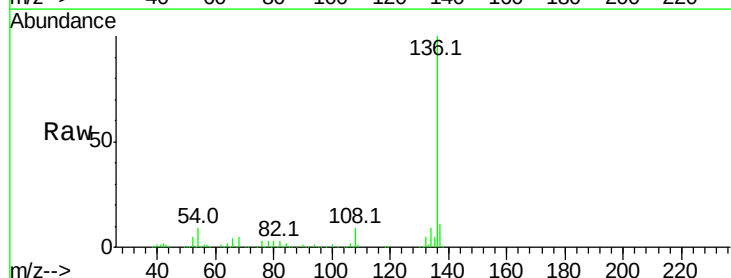
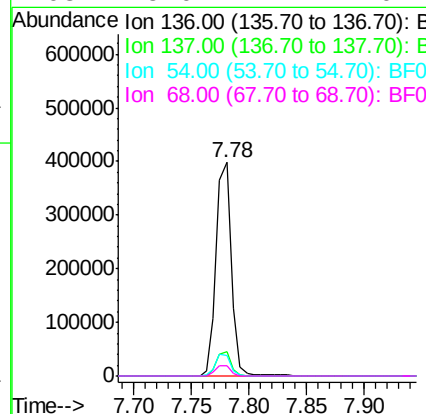
Delta R.T. -0.01 min

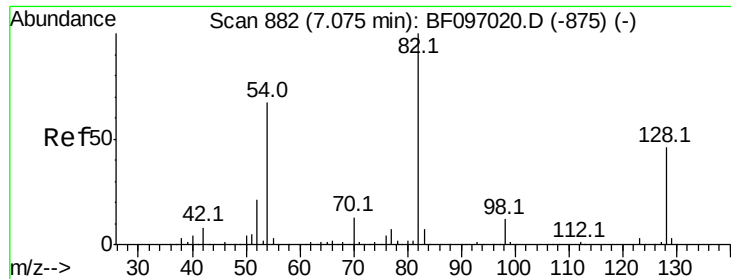
Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

Tgt Ion: 136 Resp: 369584

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.3  | 8.5   | 12.7  |
| 54  | 9.4   | 4.9   | 7.3#  |
| 68  | 5.0   | 4.1   | 6.1   |





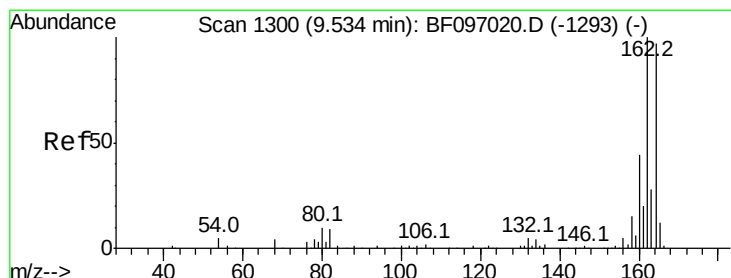
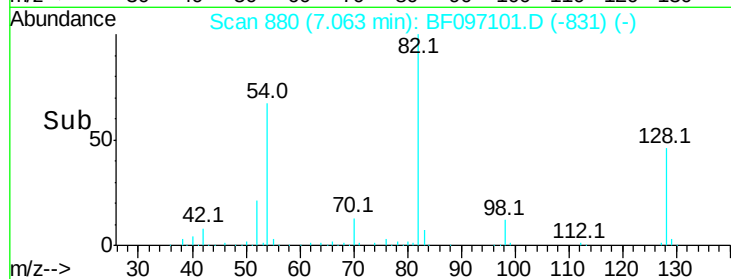
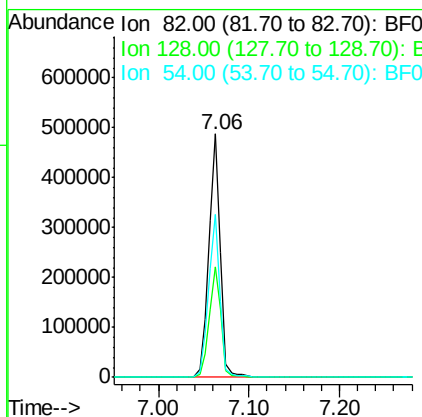
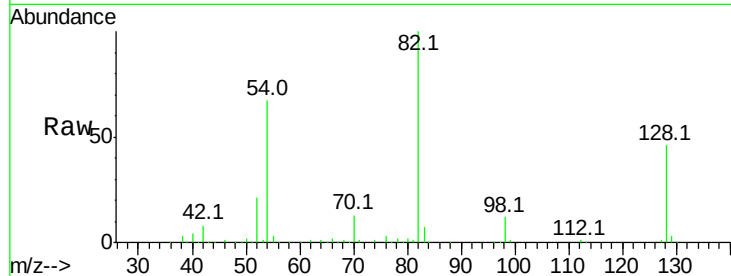
#23  
 Nitrobenzene-d5  
 Concen: 69.918 ng  
 RT: 7.06 min Scan# 880  
 Delta R.T. -0.01 min  
 Lab File: BF097101.D  
 Acq: 27 Jul 2017 3:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-02-072117-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.6  | 34.0  | 51.0  |
| 54      | 66.7  | 42.2  | 63.2  |

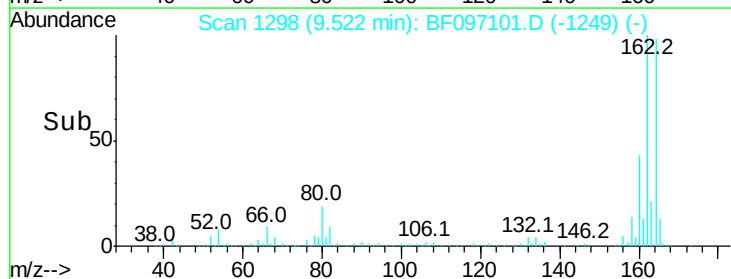
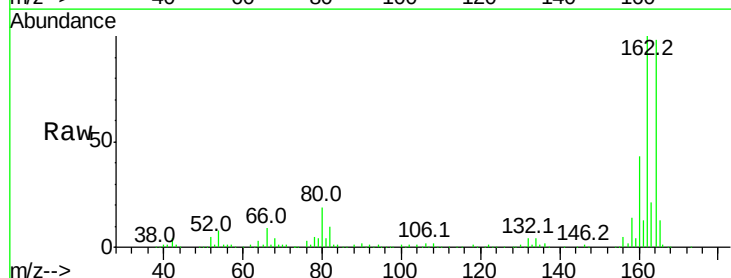
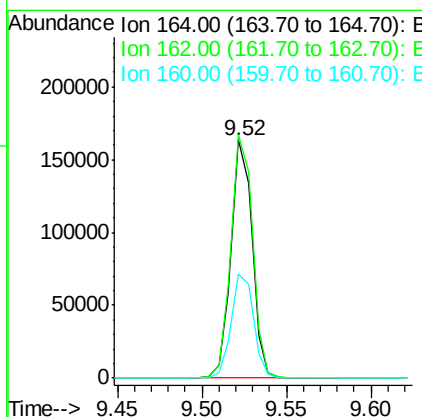
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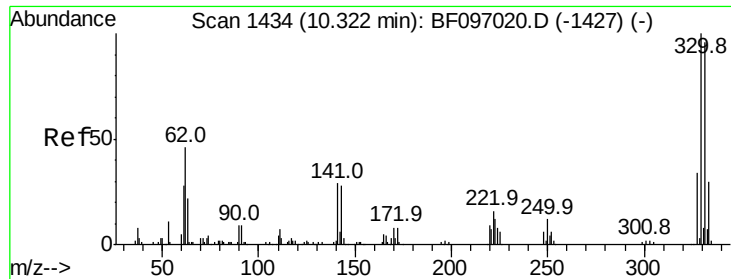
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.52 min Scan# 1298  
 Delta R.T. -0.01 min  
 Lab File: BF097101.D  
 Acq: 27 Jul 2017 3:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.2 | 82.6  | 123.8 |
| 160     | 43.9  | 36.2  | 54.2  |





#41

2,4,6-Tribromophenol

Concen: 99.577 ng

RT: 10.31 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

Instrument :

BNA\_F

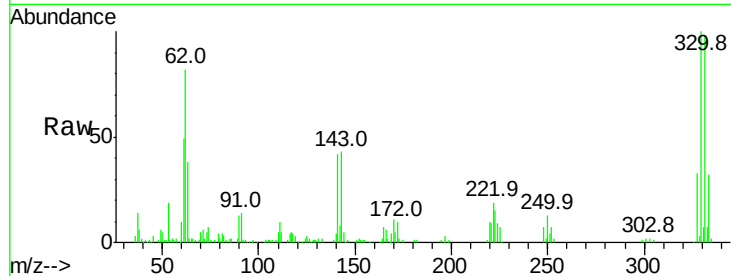
ClientSampleId :

BU-02-072117-B

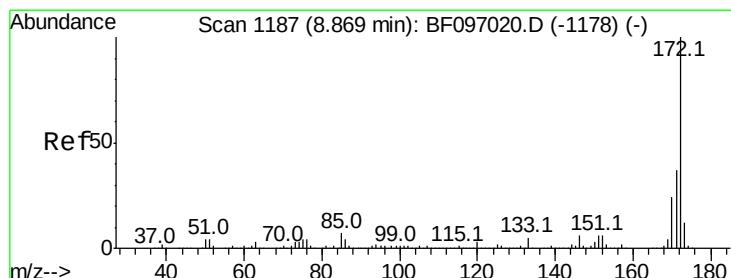
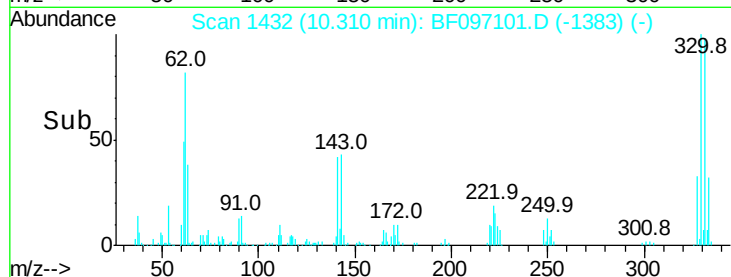
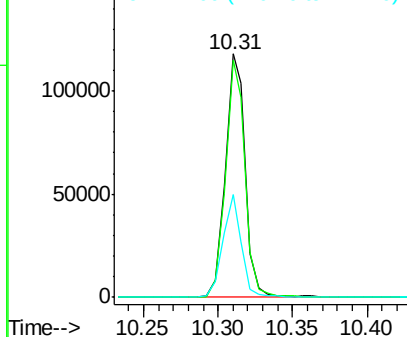
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 111413 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.9  | 76.6  | 115.0  |
| 141       | 39.3  | 31.4  | 47.2   |

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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: 91.775 ng

RT: 8.86 min Scan# 1185

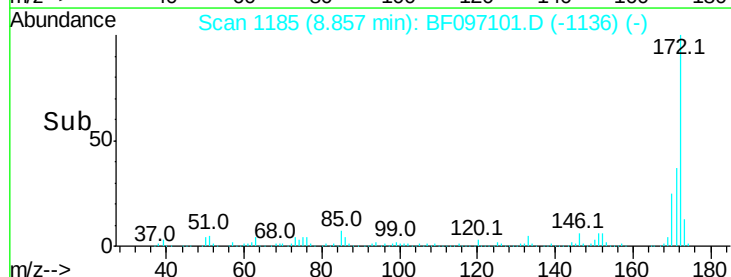
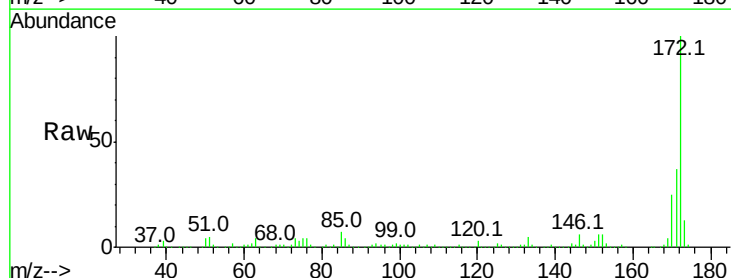
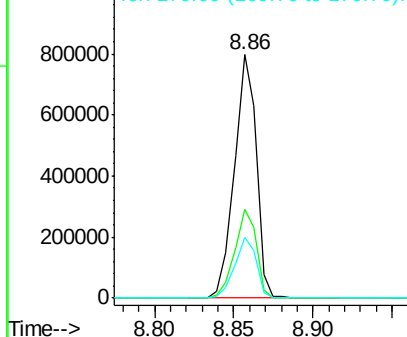
Delta R.T. -0.01 min

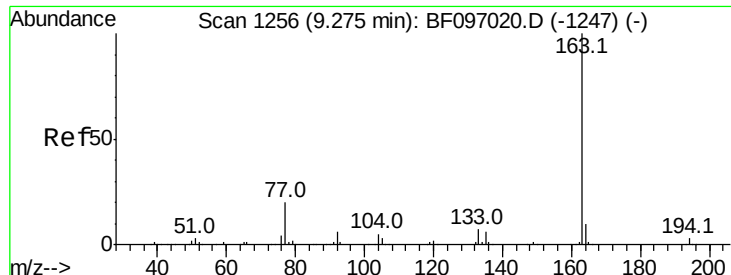
Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 765795 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.6  | 29.6  | 44.4   |
| 170       | 25.0  | 19.8  | 29.8   |

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





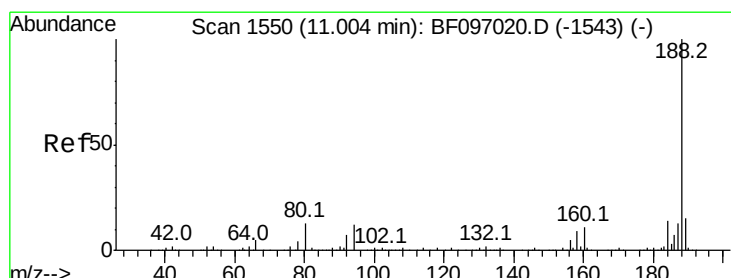
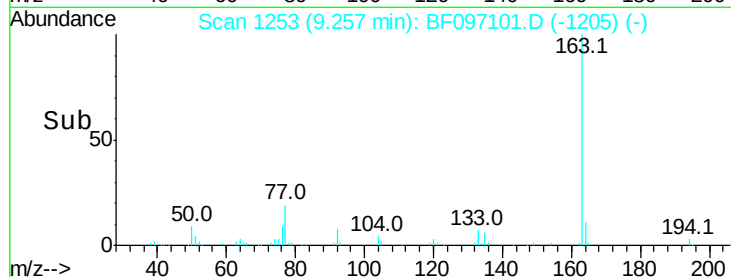
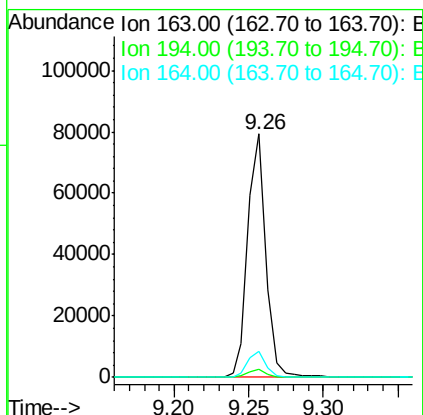
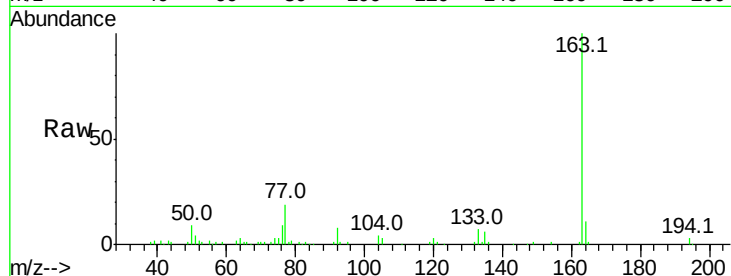
#49  
Dimethylphthalate  
Concen: 6.188 ng  
RT: 9.26 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-072117-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.3   | 2.6   | 4.0   |
| 164     | 10.8  | 8.4   | 12.6  |

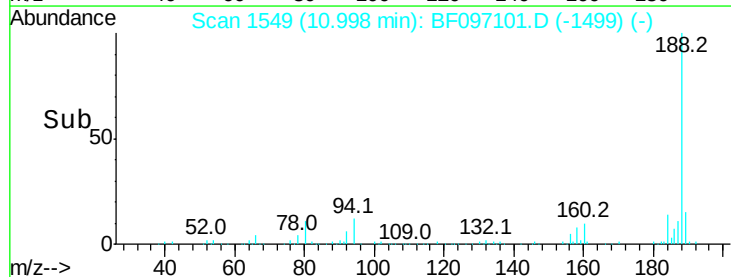
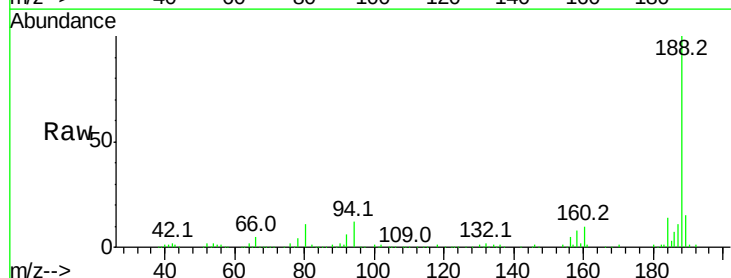
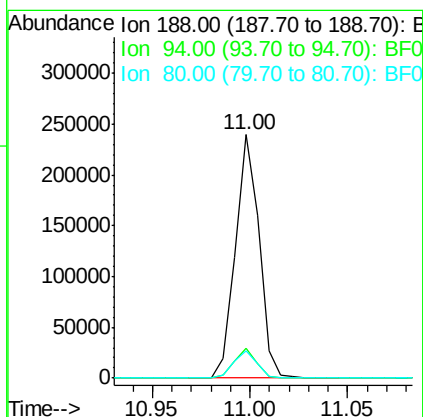
Manual Integrations  
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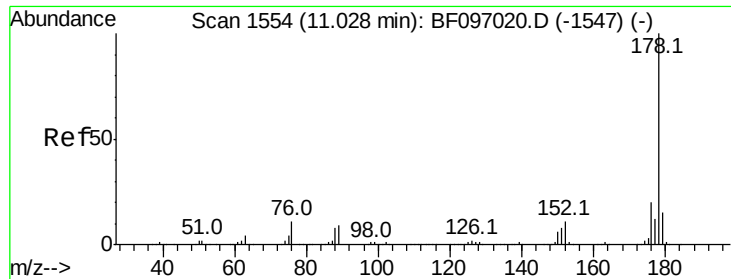
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.00 min Scan# 1549  
Delta R.T. -0.01 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.2  | 9.4   | 14.2  |
| 80      | 11.3  | 10.2  | 15.2  |





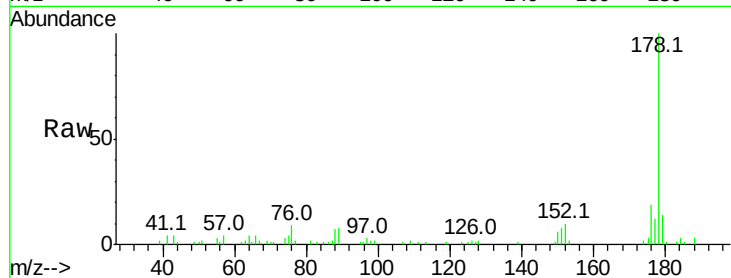
#70  
Phenanthrene  
Concen: 2.785 ng  
RT: 11.02 min Scan# 1553  
Delta R.T. -0.01 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-072117-B

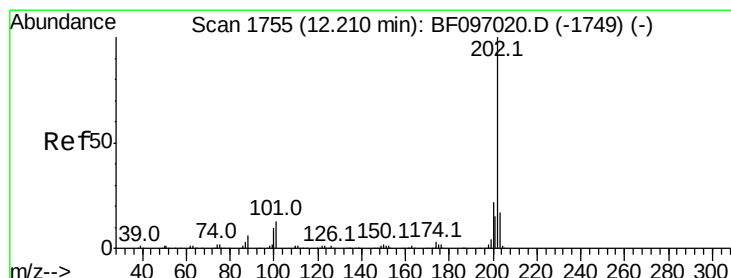
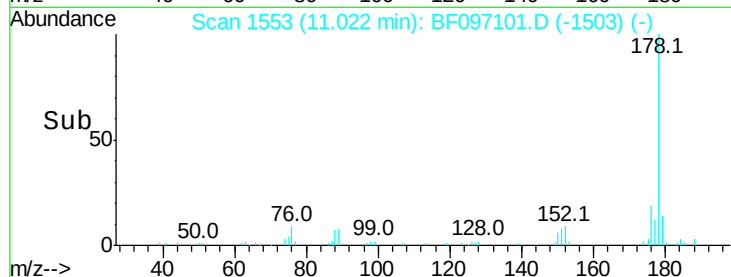
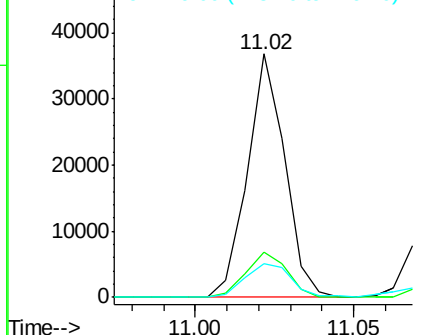
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 16.2  | 24.4  |
| 179     | 14.1  | 12.6  | 19.0  |

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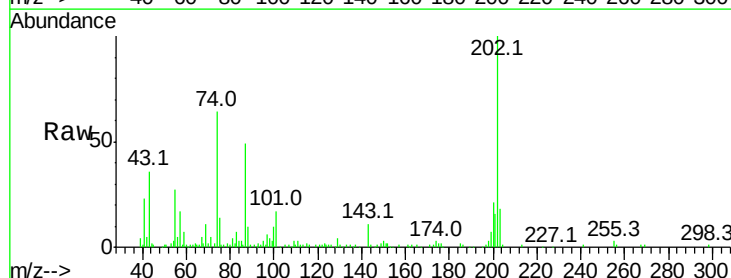


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

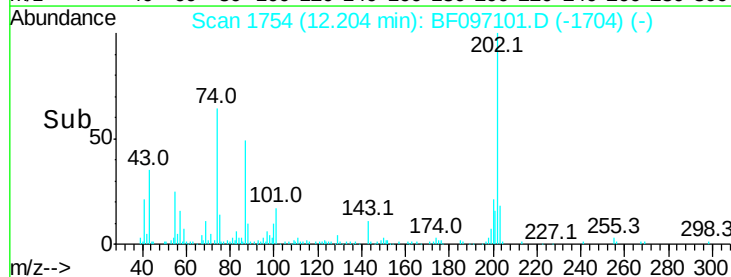
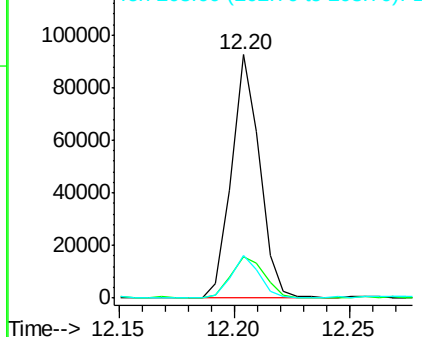


#74  
Fluoranthene  
Concen: 7.446 ng  
RT: 12.20 min Scan# 1754  
Delta R.T. -0.01 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

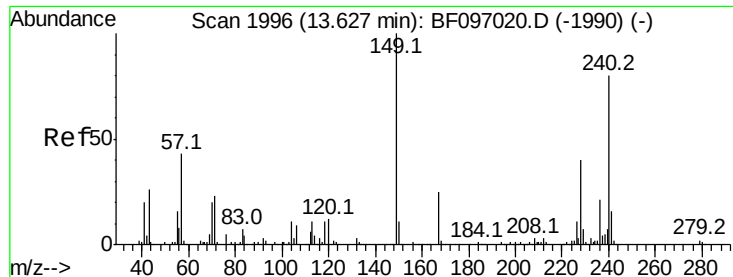
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 16.9  | 0.0   | 33.2  |
| 203     | 17.5  | 0.0   | 38.1  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E







#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.63 min Scan# 1996

Delta R.T. -0.00 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

Instrument :

BNA\_F

ClientSampleId :

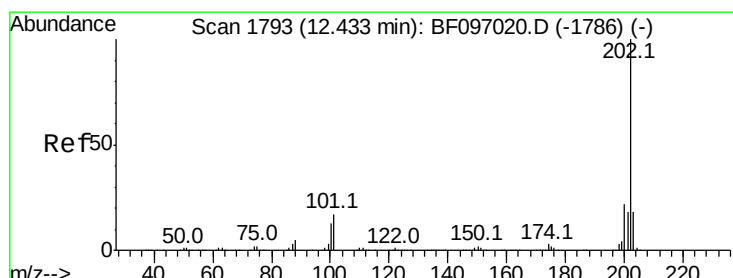
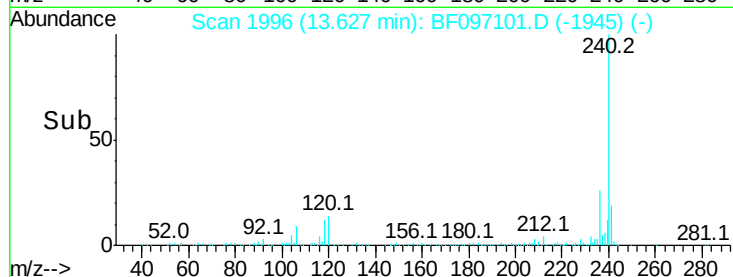
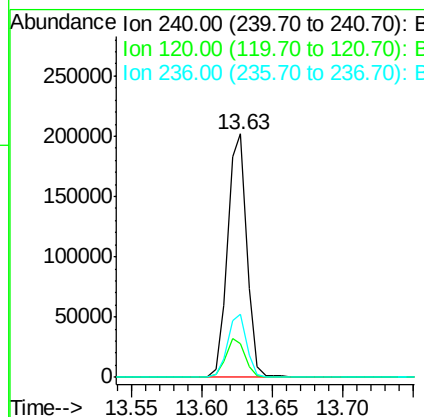
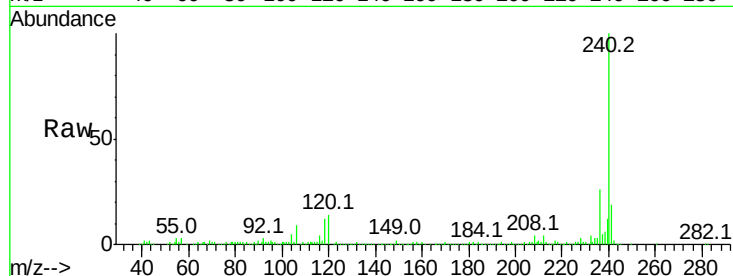
BU-02-072117-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.7  | 5.8   | 8.8#  |
| 236     | 25.8  | 20.5  | 30.7  |

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#77

Pyrene

Concen: 5.224 ng

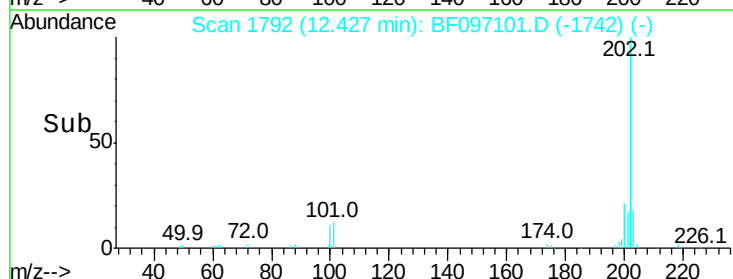
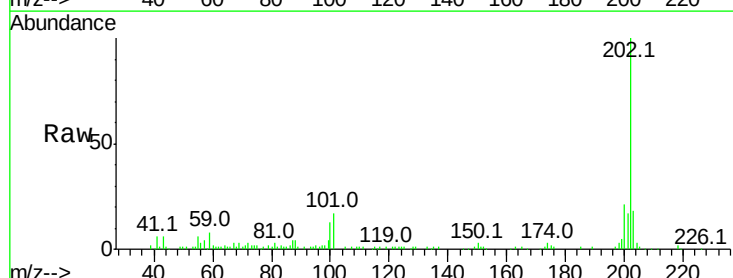
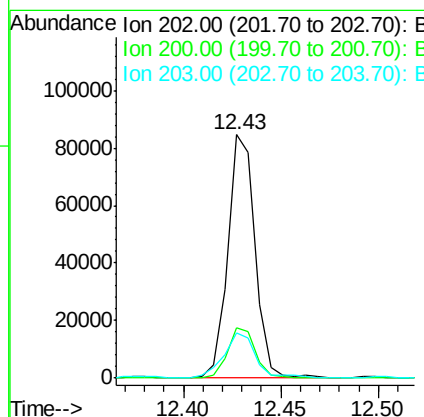
RT: 12.43 min Scan# 1792

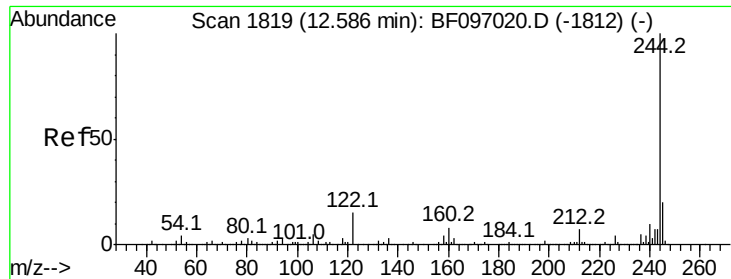
Delta R.T. -0.01 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 17.6  | 26.4  |
| 203     | 18.5  | 14.4  | 21.6  |





#78

Terphenyl-d14

Concen: 50.406 ng

RT: 12.59 min Scan# 1819

Delta R.T. -0.00 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

Instrument :

BNA\_F

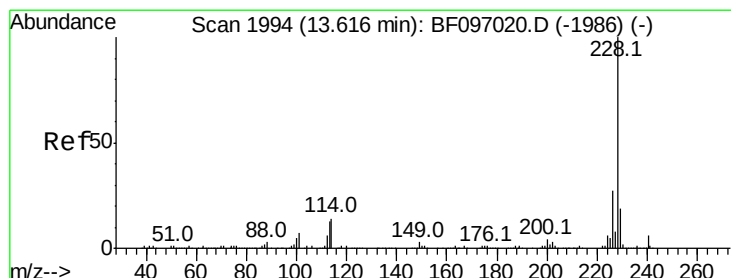
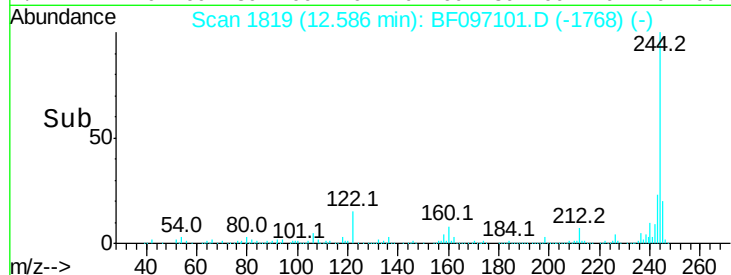
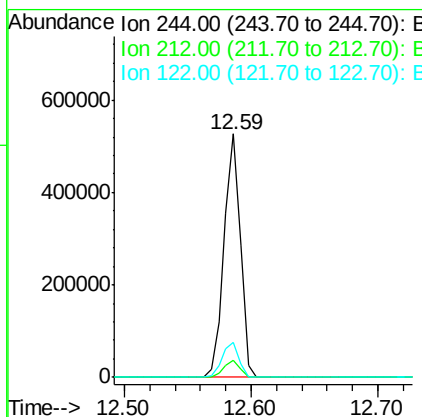
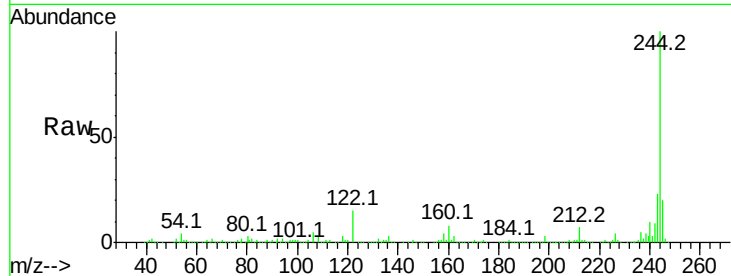
ClientSampleId :

BU-02-072117-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 472707 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.8   | 6.0   | 9.0    |
| 122       | 14.6  | 10.3  | 15.5   |

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#80

Benzo(a)anthracene

Concen: 2.486 ng

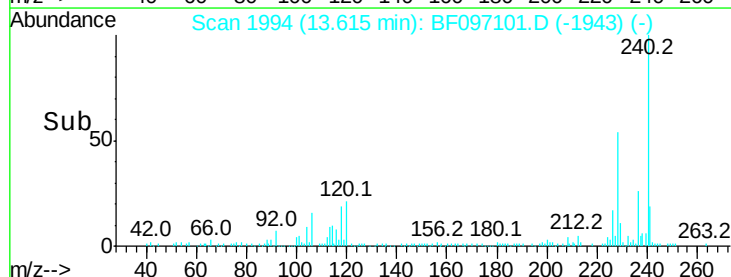
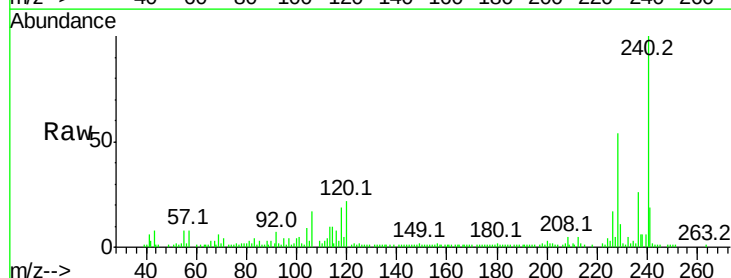
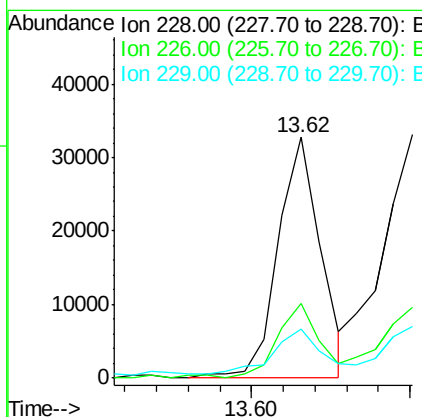
RT: 13.62 min Scan# 1994

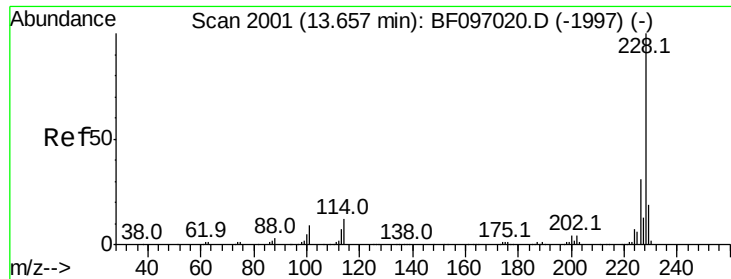
Delta R.T. -0.00 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 30754 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.0  | 22.6  | 33.8  |
| 229       | 20.5  | 16.3  | 24.5  |





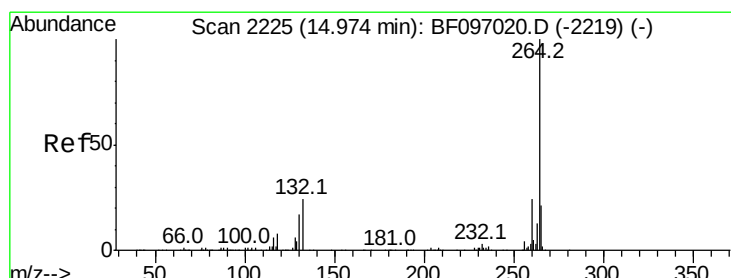
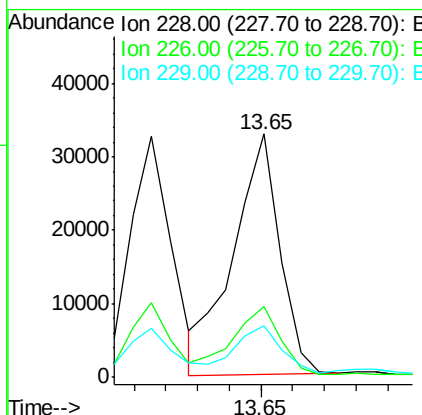
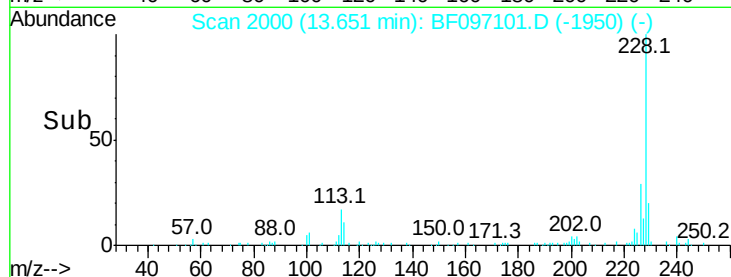
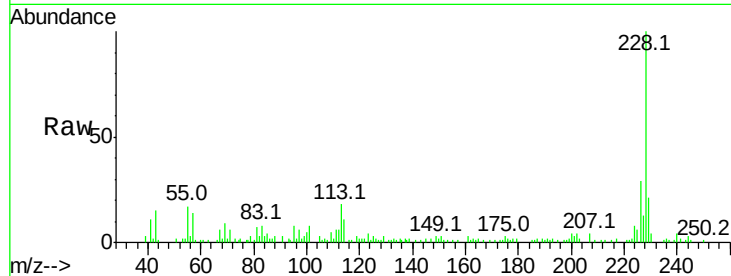
#82  
Chrysene  
Concen: 2.764 ng  
RT: 13.65 min Scan# 2000  
Delta R.T. -0.01 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-072117-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 24.9  | 37.3  |
| 229     | 21.0  | 15.8  | 23.6  |

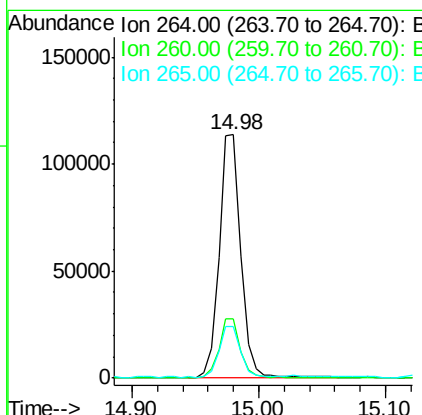
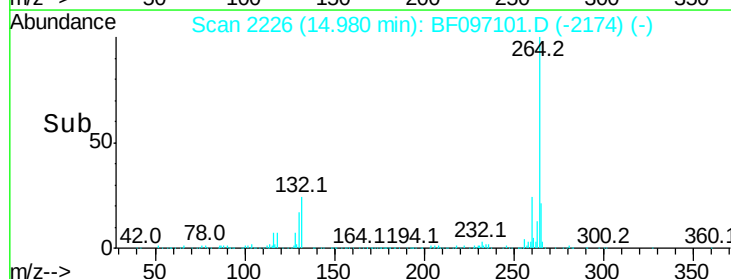
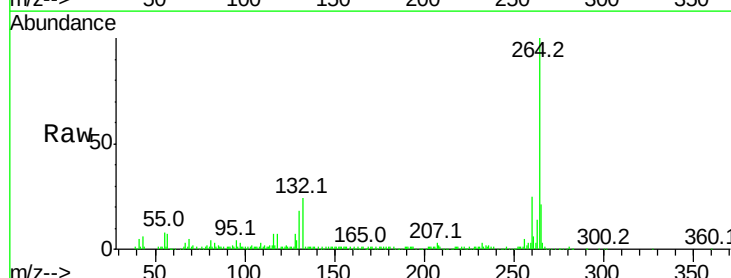
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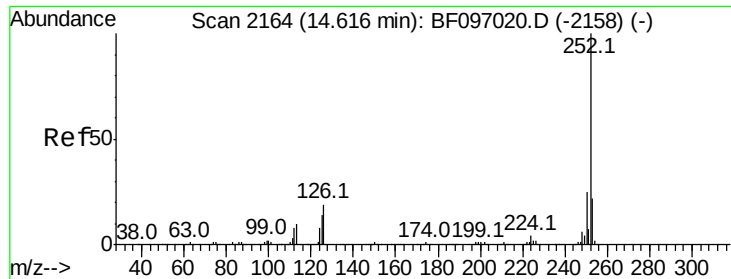
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 14.98 min Scan# 2226  
Delta R.T. 0.01 min  
Lab File: BF097101.D  
Acq: 27 Jul 2017 3:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.5  | 29.3  |
| 265     | 21.1  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 4.373 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.00 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

Instrument :

BNA\_F

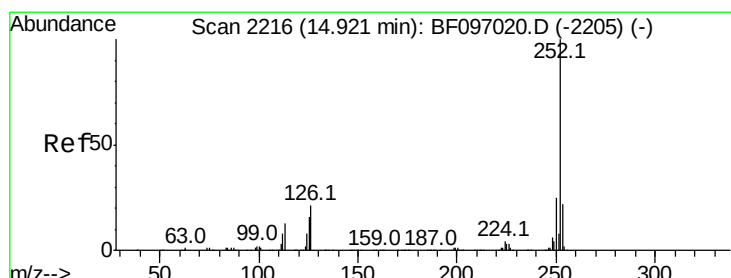
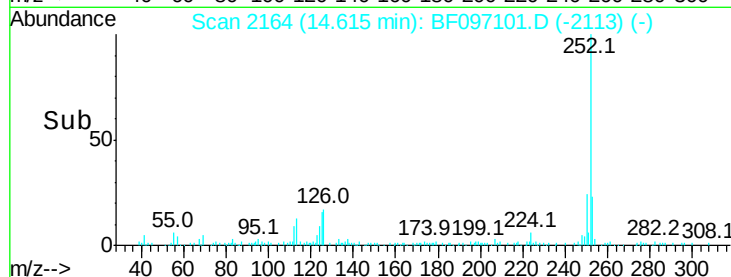
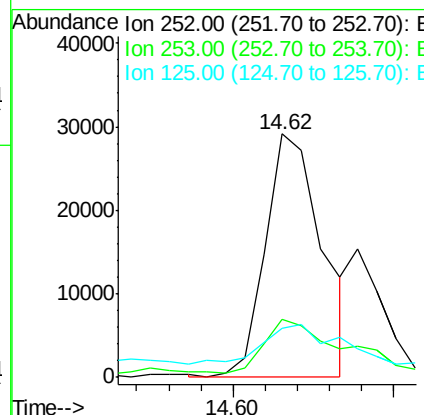
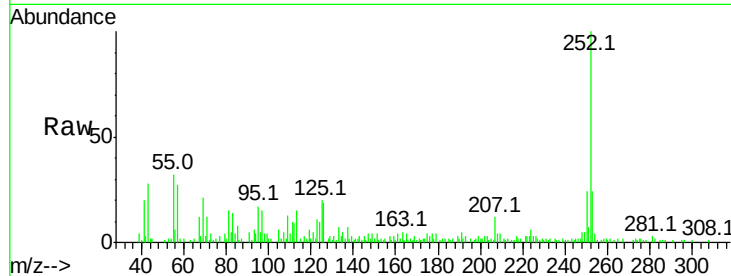
ClientSampleId :

BU-02-072117-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 35820 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.0  | 18.1  | 27.1  |
| 125       | 20.3  | 9.8   | 14.8# |

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#89

Benzo(a)pyrene

Concen: 3.203 ng

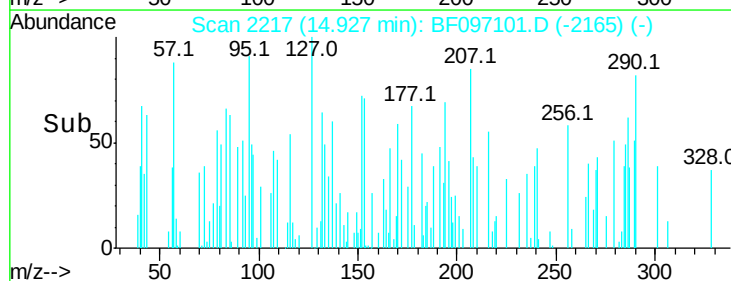
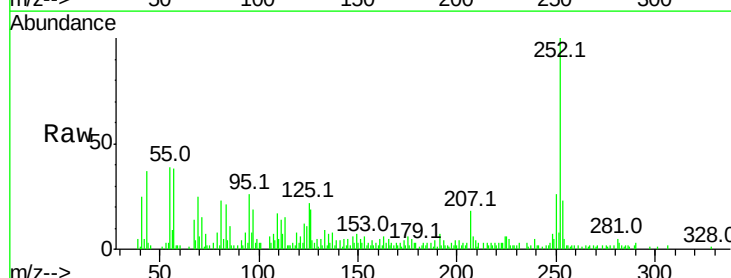
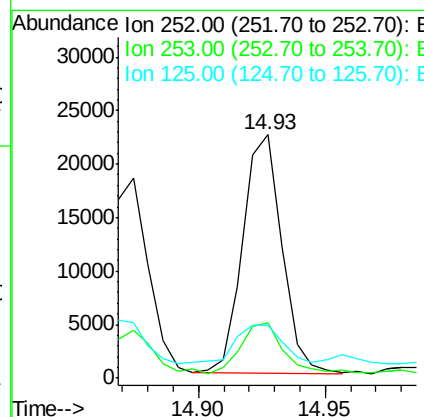
RT: 14.93 min Scan# 2217

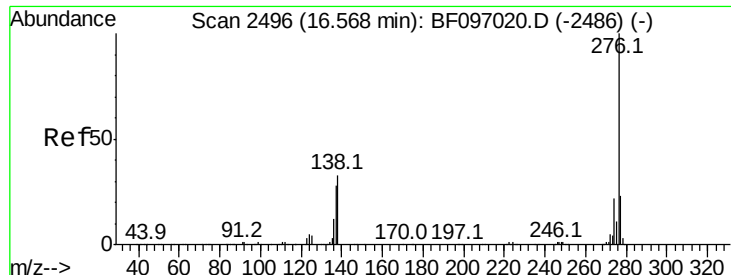
Delta R.T. 0.01 min

Lab File: BF097101.D

Acq: 27 Jul 2017 3:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 24013 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.7  | 17.5  | 26.3  |
| 125       | 21.9  | 11.0  | 16.4# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.341 ng  
 RT: 16.57 min Scan# 2497  
 Delta R.T. 0.01 min  
 Lab File: BF097101.D  
 Acq: 27 Jul 2017 3:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-02-072117-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.3  | 18.6  | 28.0  |
| 138     | 41.4  | 25.4  | 38.0  |

Manual Integrations  
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