

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070316\  
 Data File : BF088670.D  
 Acq On : 4 Jul 2016 2:14  
 Operator : UM/SJ  
 Sample : H3817-12  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BS-5A-10.5-11FT

## Manual Integrations

APPROVED  
 umangi  
 7/5/2016 7:51:25 PM

Quant Time: Jul 05 15:36:15 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 30 18:01:55 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 117459   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.07  | 136  | 503388   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10        | 9.82  | 164  | 235712   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.29 | 188  | 386171   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 13.92 | 240  | 327933   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 15.31 | 264  | 235956   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.38  | 112  | 848210   | 108.23 | ng    | -0.02    |
| 7) Phenol-d6                | 6.42  | 99   | 1125090  | 111.10 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 721914   | 75.15  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 250037   | 114.23 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 1037691  | 69.54  | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.88 | 244  | 853704   | 57.98  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.43  | 94   | 37027    | 3.20   | ng    | 96       |
| 49) Dimethylphthalate       | 9.54  | 163  | 227375   | 13.54  | ng    | 98       |
| 70) Phenanthrene            | 11.31 | 178  | 98081    | 4.65   | ng    | 98       |
| 71) Anthracene              | 11.37 | 178  | 42915    | 2.04   | ng    | 96       |
| 74) Fluoranthene            | 12.50 | 202  | 161863   | 7.56   | ng    | 94       |
| 77) Pyrene                  | 12.72 | 202  | 163203   | 5.87   | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.91 | 228  | 66494m   | 3.15   | ng    |          |
| 82) Chrysene                | 13.94 | 228  | 52163m   | 2.50   | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.91 | 252  | 38689m   | 2.61   | ng    |          |
| 89) Benzo(a)pyrene          | 15.25 | 252  | 38449    | 3.07   | ng    | 99       |

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

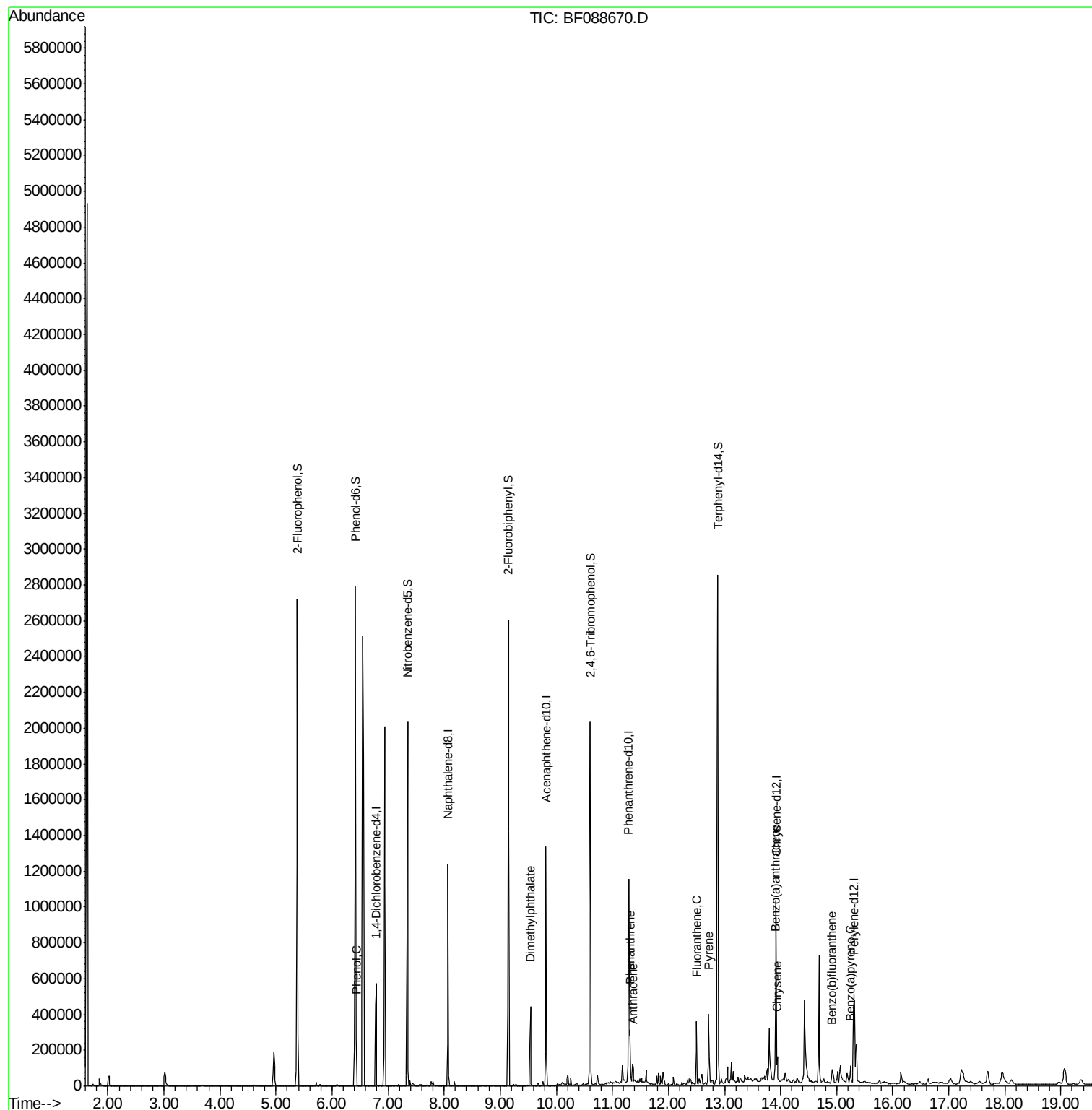
Data Path : Z:\HPCHEM1\BNA F\DATA\BF070316\  
Data File : BF088670.D  
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Operator : UM/SJ  
Sample : H3817-12  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
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## Manual Integrations

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Quant Time: Jul 05 15:36:15 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 30 18:01:55 2016  
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#1

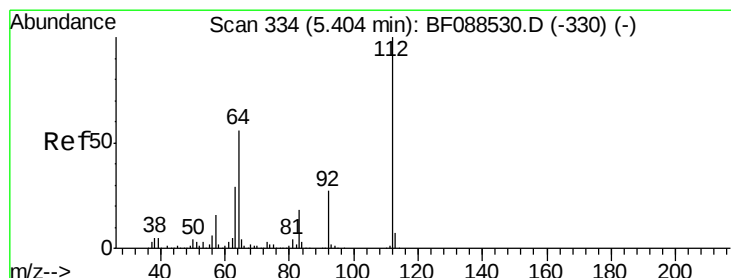
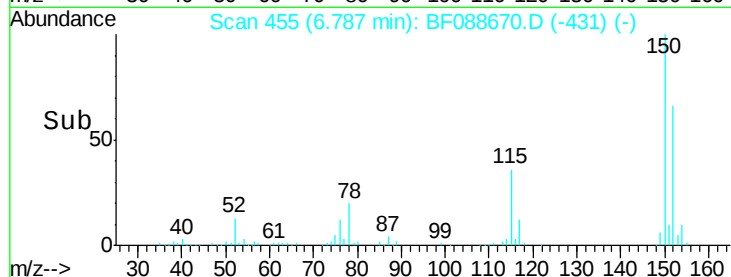
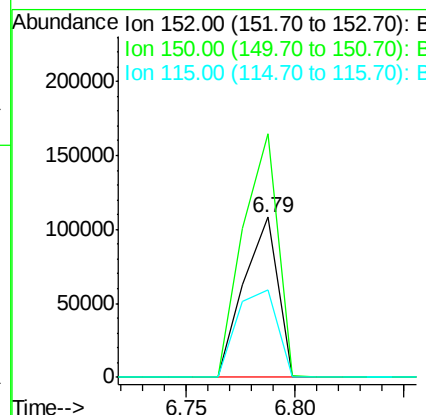
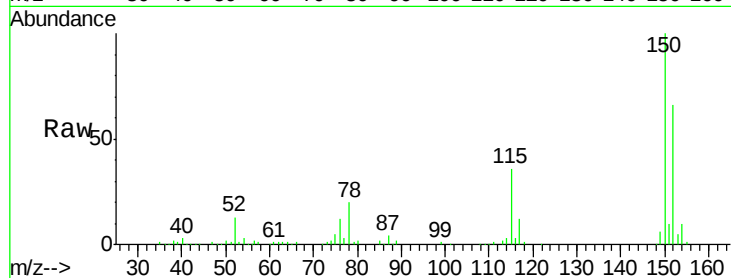
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.79 min Scan# 455  
Delta R.T. -0.02 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
BS-5A-10.5-11FT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.4 | 123.8 | 185.6 |
| 115     | 54.6  | 39.6  | 59.4  |

Manual Integrations

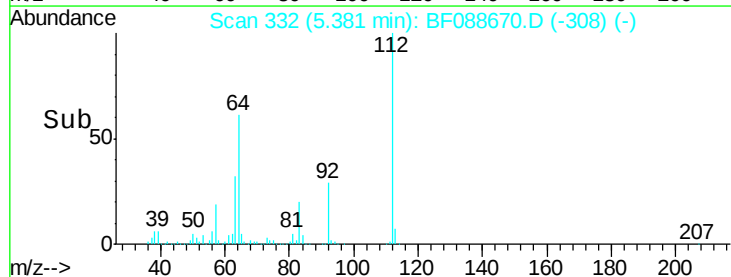
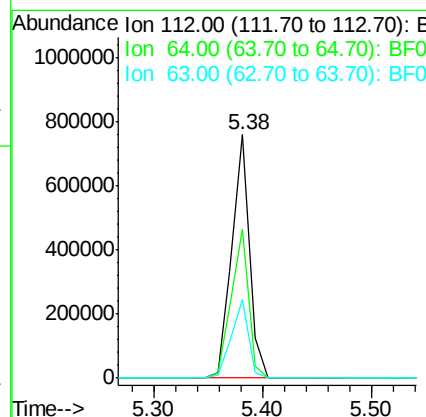
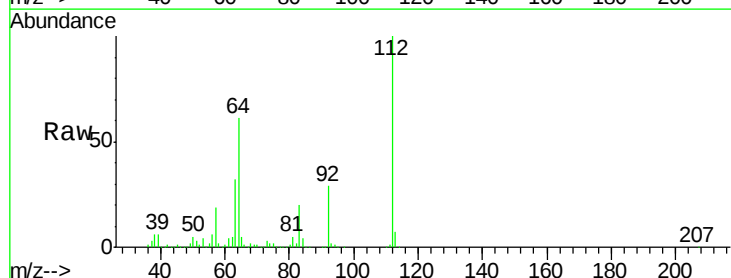
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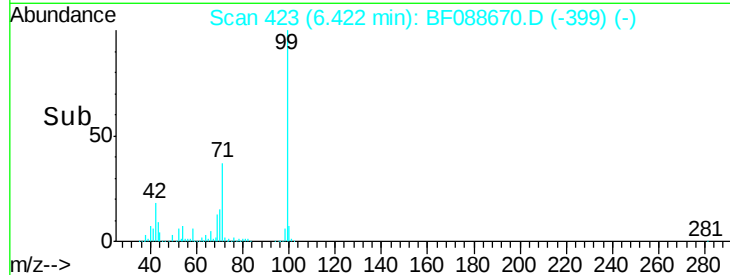
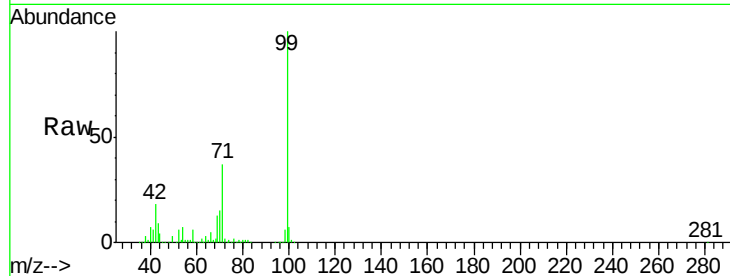


#5

2-Fluorophenol  
Concen: 108.23 ng  
RT: 5.38 min Scan# 332  
Delta R.T. -0.02 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.2  | 42.2  | 63.2  |
| 63      | 32.3  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 111.10 ng

RT: 6.42 min Scan# 423

Delta R.T. -0.02 min

Lab File: BF088670.D

Acq: 4 Jul 2016 2:14

Tot Ion: 99 Resp: 1125090

Ion Ratio Lower Upper

99 100

42 17.7 12.2 18.2

71 36.7 23.4 35.0#

Instrument :

BNA\_F

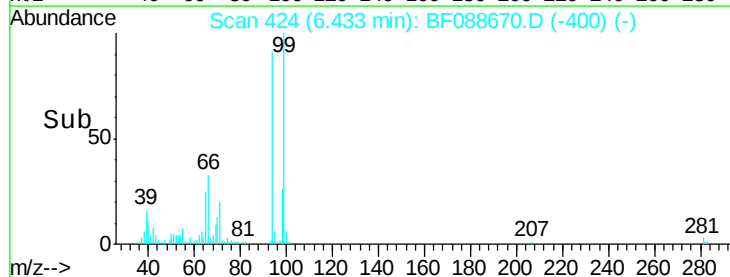
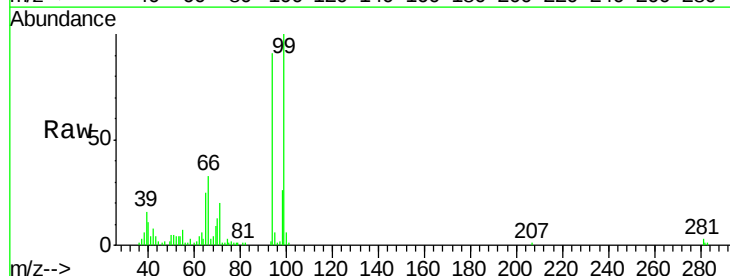
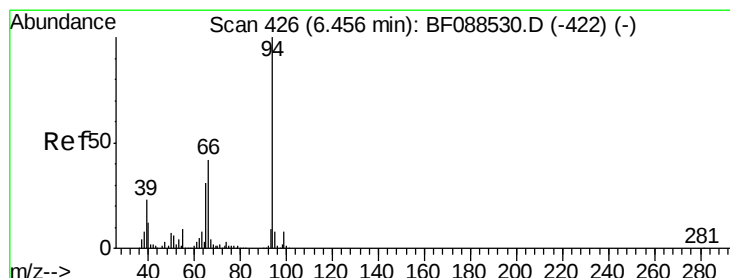
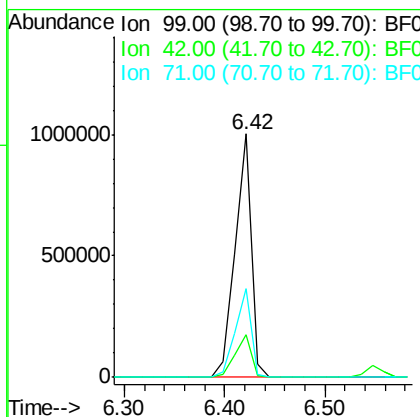
ClientSampleId :

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Manual Integrations

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#10

Phenol

Concen: 3.20 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.02 min

Lab File: BF088670.D

Acq: 4 Jul 2016 2:14

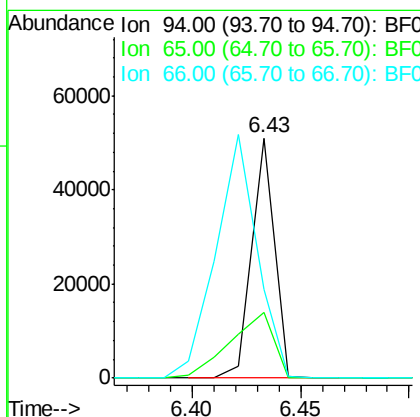
Tgt Ion: 94 Resp: 37027

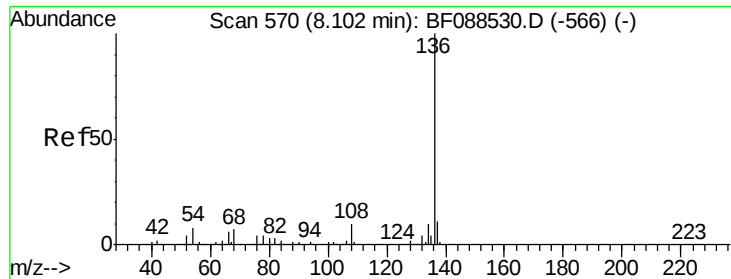
Ion Ratio Lower Upper

94 100

65 27.3 5.9 45.9

66 36.9 14.0 54.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.07 min Scan# 567

Delta R.T. -0.03 min

Lab File: BF088670.D

Acq: 4 Jul 2016 2:14

Instrument :

BNA\_F

ClientSampleId :

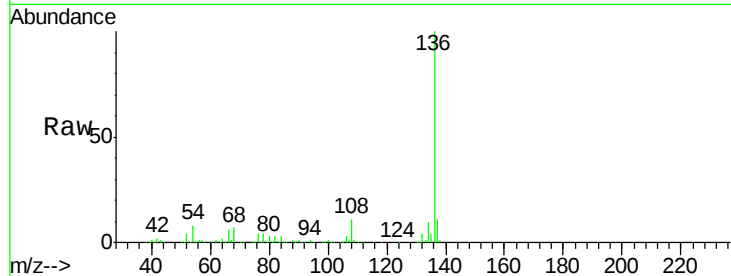
BS-5A-10.5-11FT

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 503388 |       |       |
| 137     | 11.2 |       | 9.1    | 13.7  |       |
| 54      | 7.7  |       | 6.6    | 10.0  |       |
| 68      | 6.8  |       | 5.1    | 7.7   |       |

Manual Integrations

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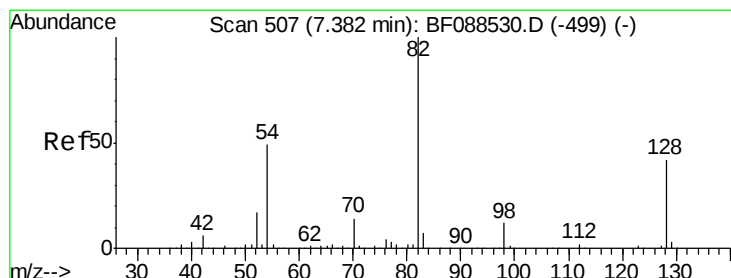
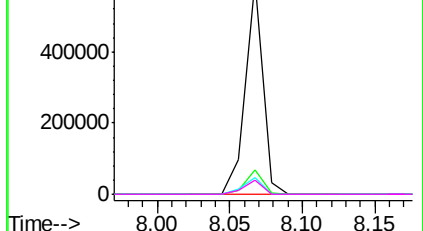
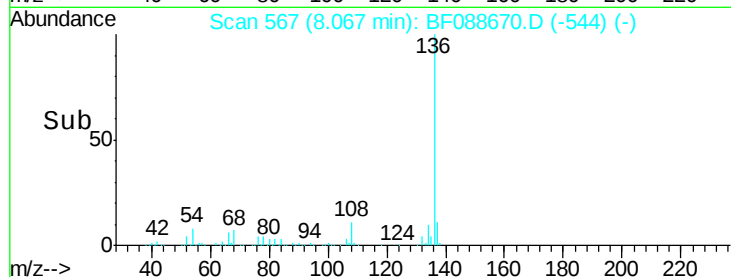


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 75.15 ng

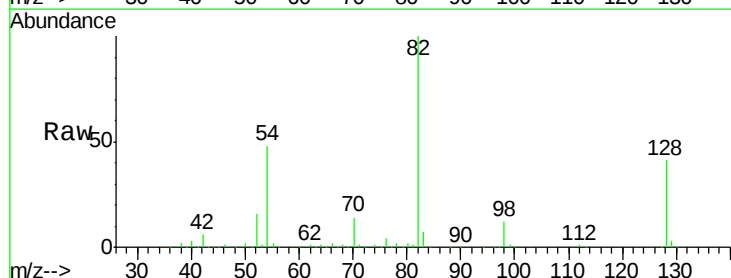
RT: 7.35 min Scan# 504

Delta R.T. -0.03 min

Lab File: BF088670.D

Acq: 4 Jul 2016 2:14

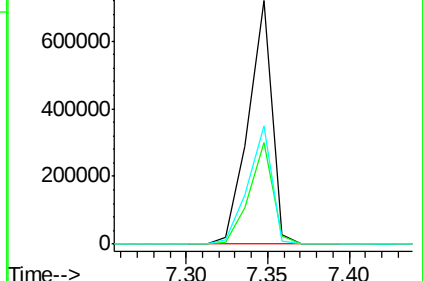
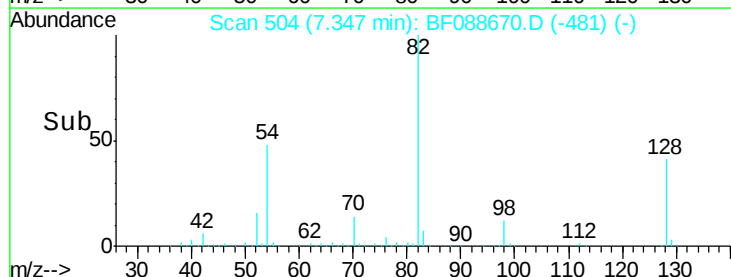
| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 721914 |       |       |
| 128     | 41.5 |       | 35.9   | 53.9  |       |
| 54      | 48.4 |       | 40.9   | 61.3  |       |

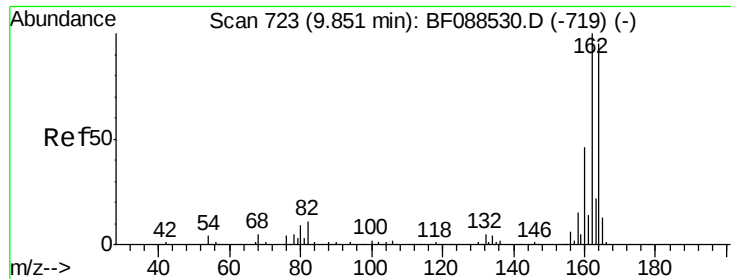


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.82 min Scan# 720

Delta R.T. -0.03 min

Lab File: BF088670.D

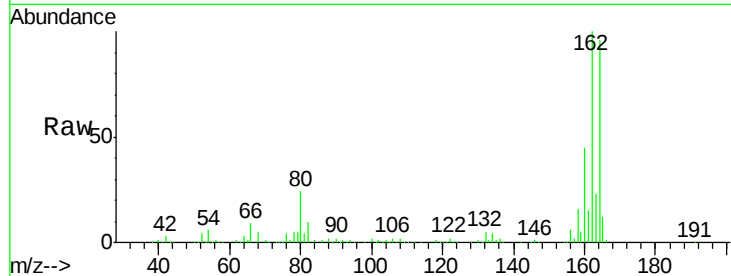
Acq: 4 Jul 2016 2:14

Instrument :

BNA\_F

ClientSampleId :

BS-5A-10.5-11FT



Tot Ion:164 Resp: 235712

Ion Ratio Lower Upper

164 100

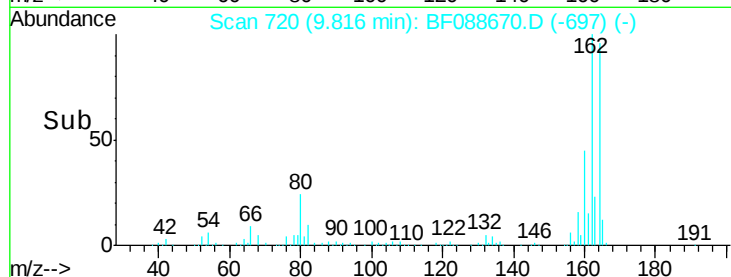
162 104.2 85.4 128.2

160 46.8 39.5 59.3

Manual Integrations

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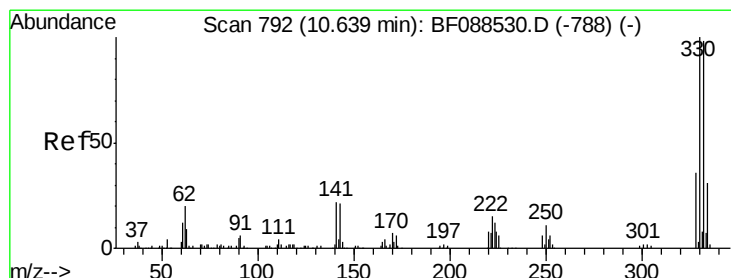
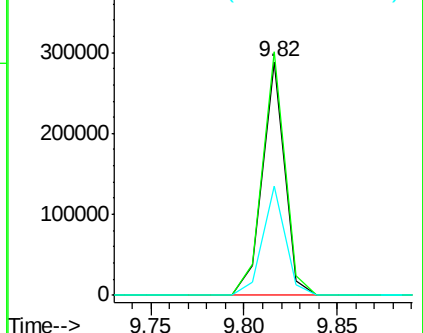
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 114.23 ng

RT: 10.60 min Scan# 789

Delta R.T. -0.03 min

Lab File: BF088670.D

Acq: 4 Jul 2016 2:14

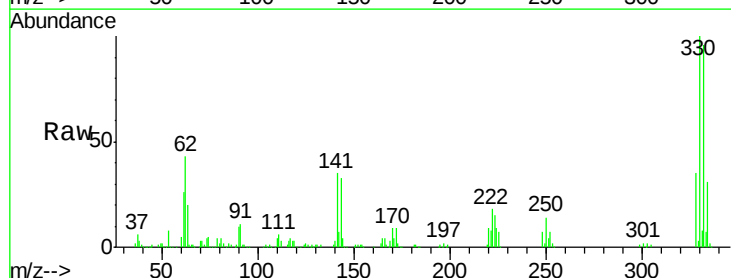
Tgt Ion:330 Resp: 250037

Ion Ratio Lower Upper

330 100

332 96.2 0.0 0.0#

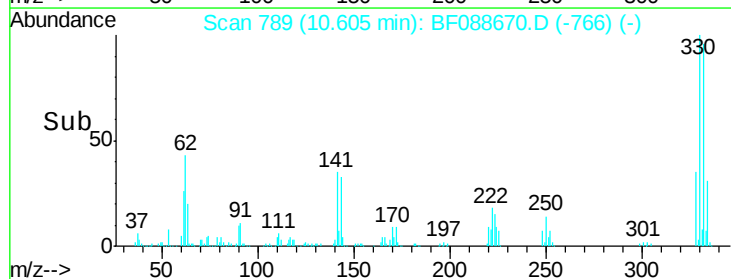
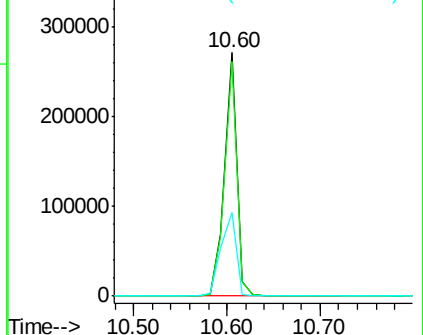
141 42.0 0.0 0.0#



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





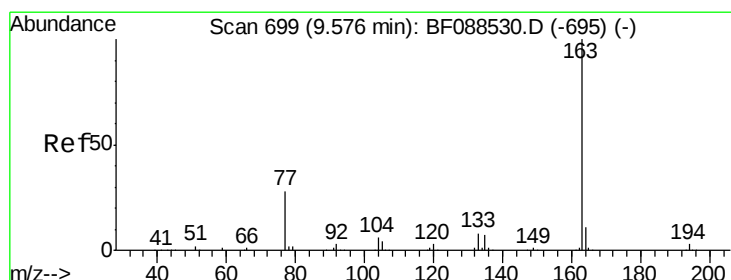
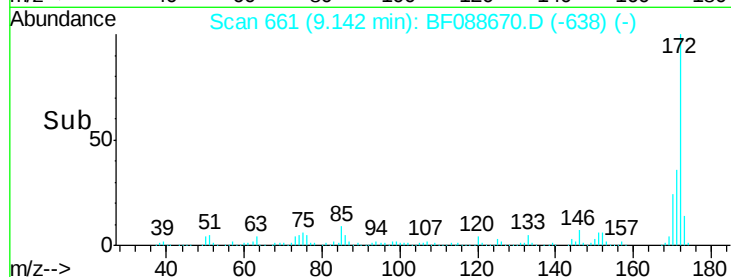
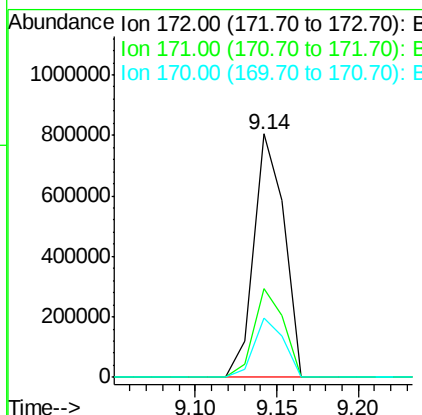
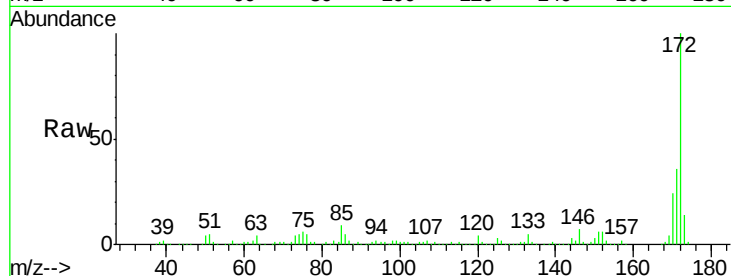
#44  
2-Fluorobiphenyl  
Concen: 69.54 ng  
RT: 9.14 min Scan# 661  
Delta R.T. -0.03 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
BS-5A-10.5-11FT

Tot Ion:172 Resp: 1037691  
Ion Ratio Lower Upper  
172 100  
171 36.4 28.6 43.0  
170 24.4 19.2 28.8

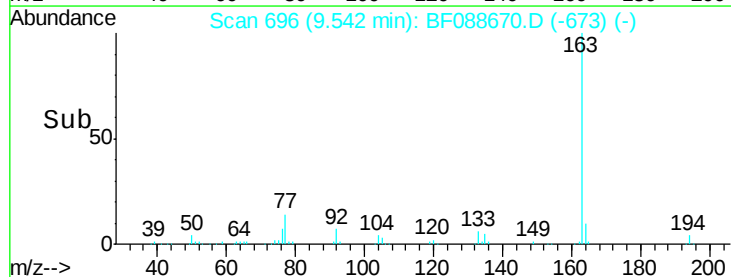
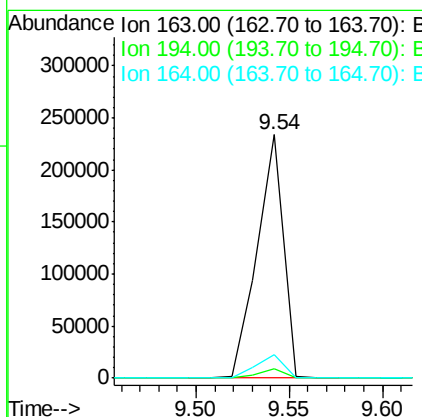
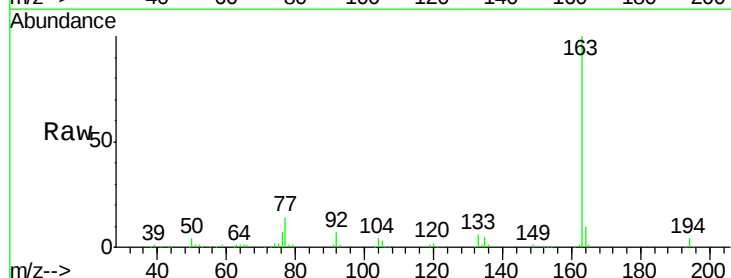
Manual Integrations

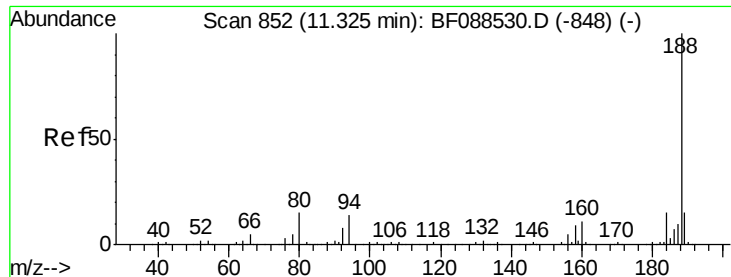
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#49  
Dimethylphthalate  
Concen: 13.54 ng  
RT: 9.54 min Scan# 696  
Delta R.T. -0.03 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

Tgt Ion:163 Resp: 227375  
Ion Ratio Lower Upper  
163 100  
194 3.7 2.8 4.2  
164 9.6 8.3 12.5





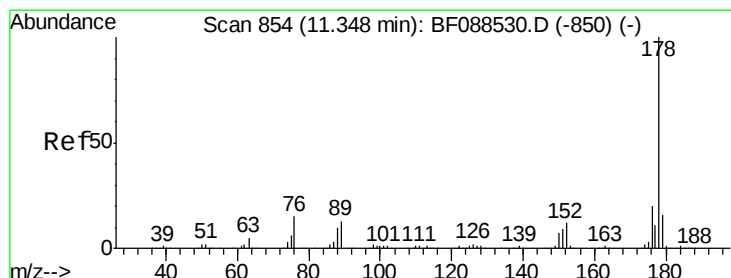
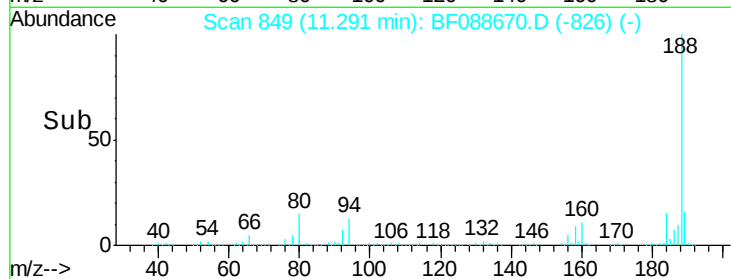
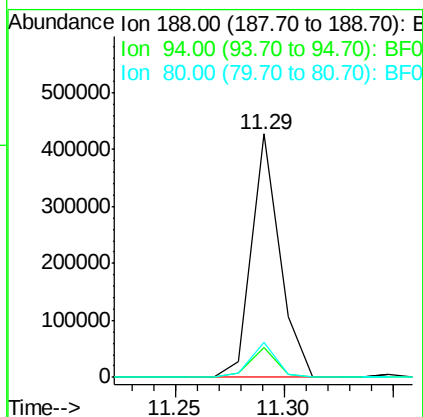
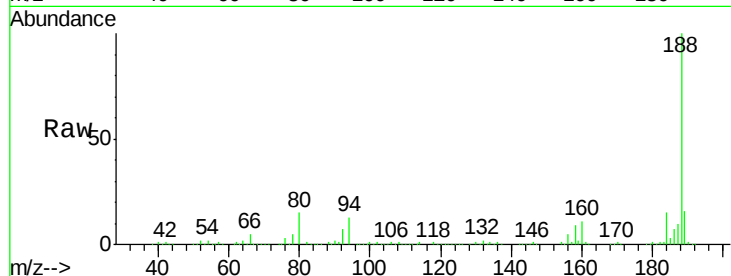
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.29 min Scan# 849  
Delta R.T. -0.03 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
BS-5A-10.5-11FT

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 386171 |       |       |
| 94      | 12.5  |        | 9.0   | 13.6  |
| 80      | 14.5  |        | 10.0  | 15.0  |

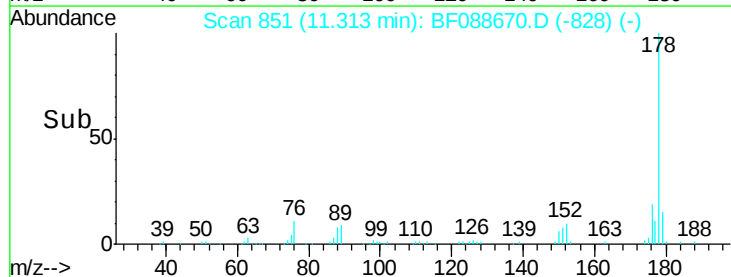
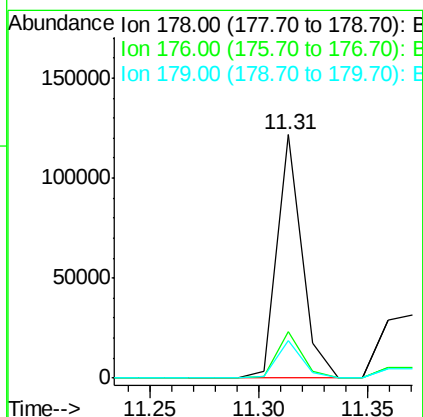
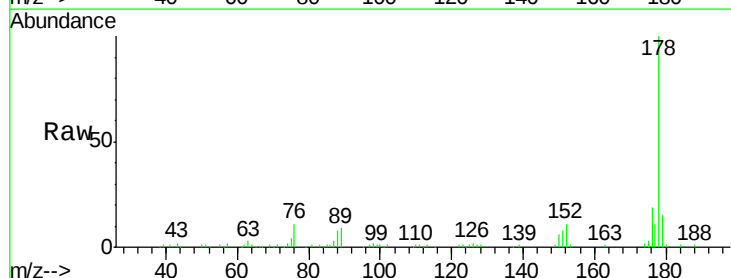
Manual Integrations

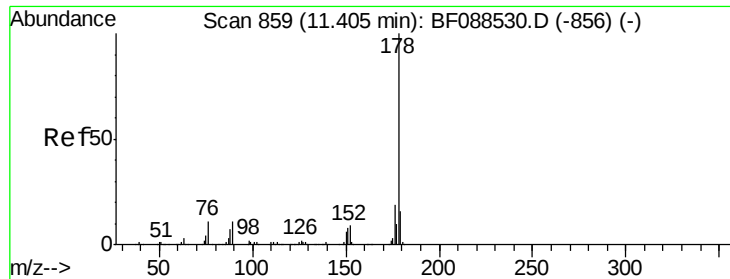
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7/5/2016 7:51:25 PM



#70  
Phenanthrene  
Concen: 4.65 ng  
RT: 11.31 min Scan# 851  
Delta R.T. -0.03 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 98081 |       |       |
| 176     | 18.9  |       | 15.8  | 23.6  |
| 179     | 15.3  |       | 13.0  | 19.4  |





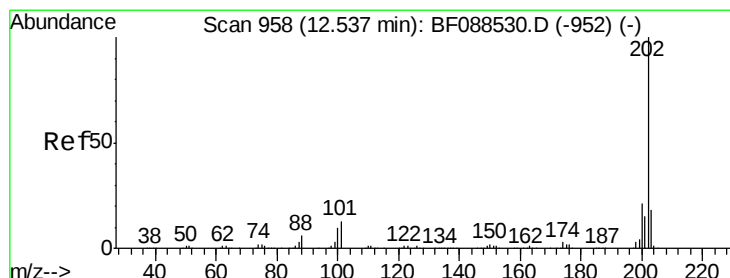
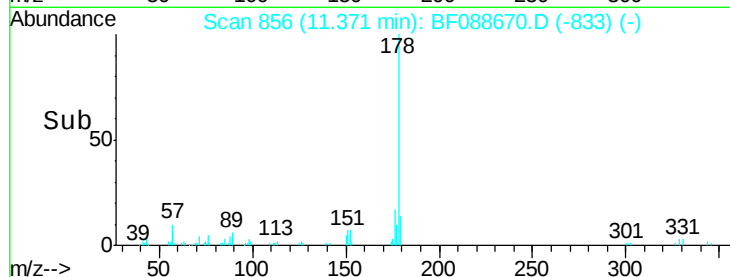
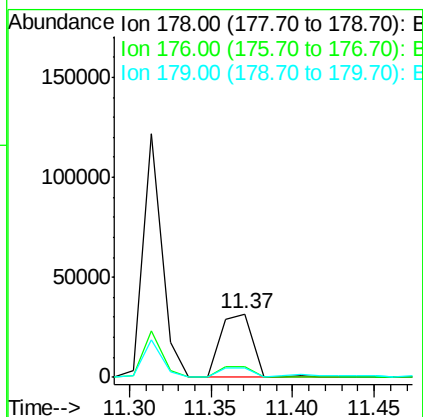
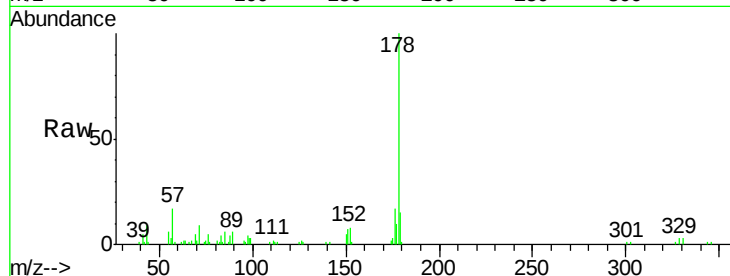
#71  
 Anthracene  
 Concen: 2.04 ng  
 RT: 11.37 min Scan# 856  
 Delta R.T. -0.03 min  
 Lab File: BF088670.D  
 Acq: 4 Jul 2016 2:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BS-5A-10.5-11FT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.0  | 15.6  | 23.4  |
| 179     | 15.3  | 12.8  | 19.2  |

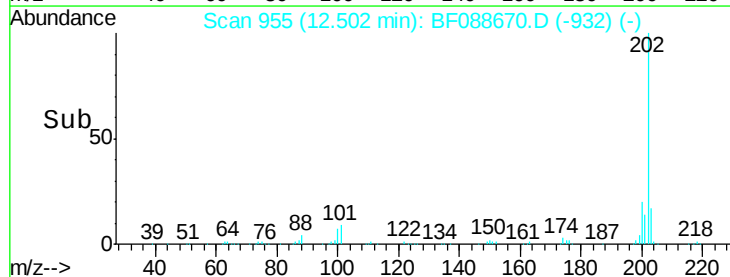
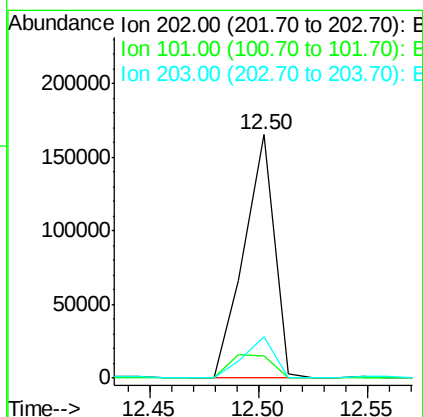
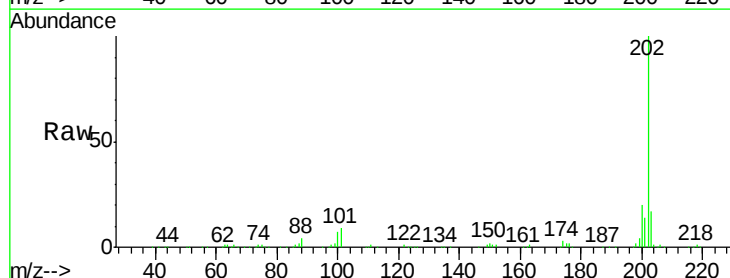
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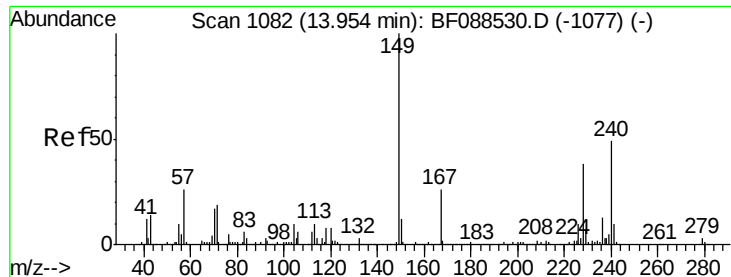
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#74  
 Fluoranthene  
 Concen: 7.56 ng  
 RT: 12.50 min Scan# 955  
 Delta R.T. -0.03 min  
 Lab File: BF088670.D  
 Acq: 4 Jul 2016 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.0   | 0.0   | 33.1  |
| 203     | 16.9  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 1079

Delta R.T. -0.03 min

Lab File: BF088670.D

Acq: 4 Jul 2016 2:14

Instrument :

BNA\_F

ClientSampleId :

BS-5A-10.5-11FT

Tot Ion:240 Resp: 327933

Ion Ratio Lower Upper

240 100

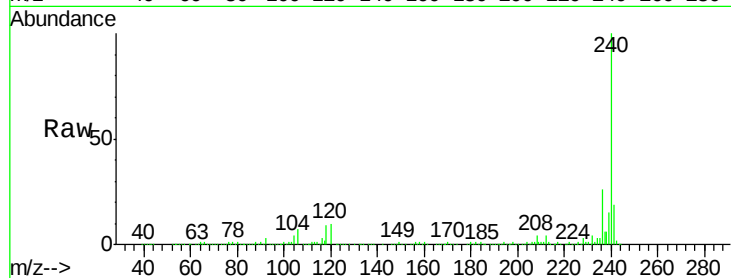
120 10.2 6.8 10.2#

236 25.7 20.2 30.2

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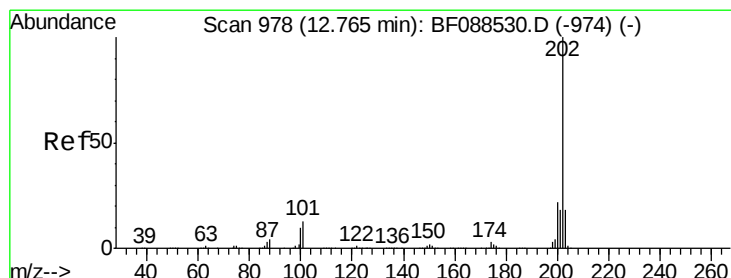
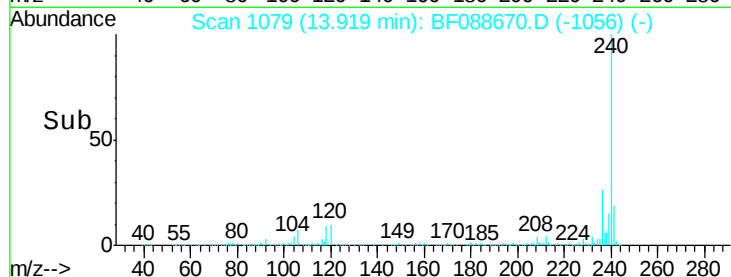
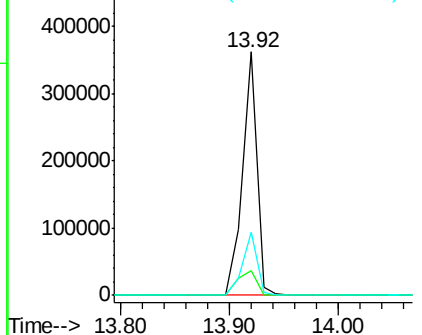
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 5.87 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.05 min

Lab File: BF088670.D

Acq: 4 Jul 2016 2:14

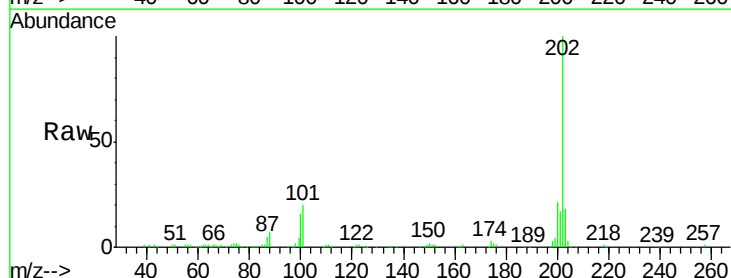
Tgt Ion:202 Resp: 163203

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

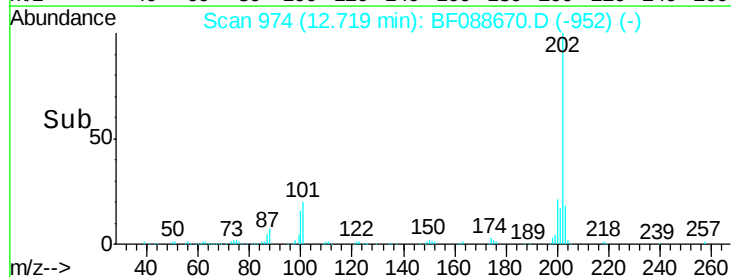
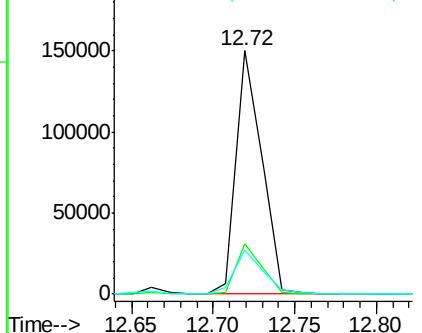
203 18.1 14.5 21.7

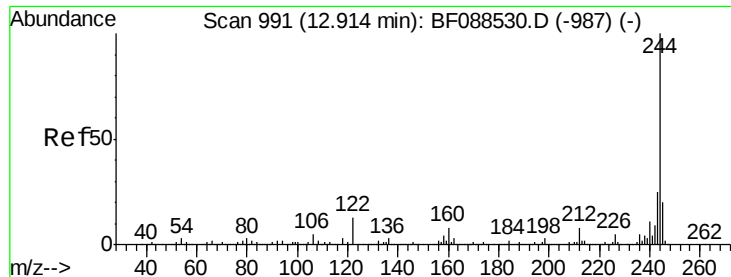


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





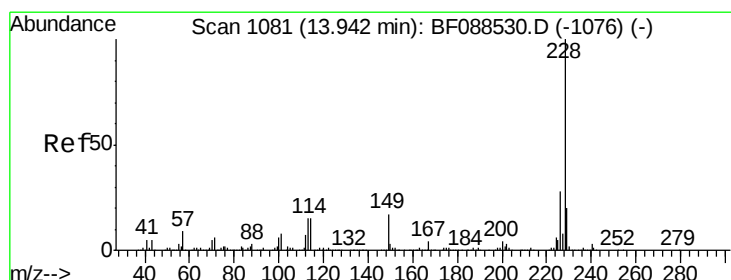
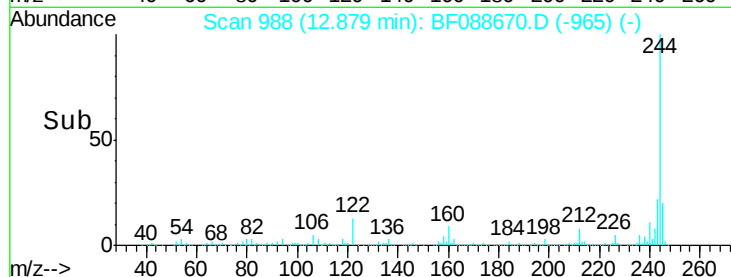
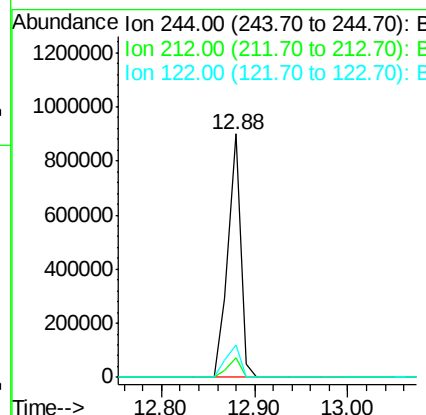
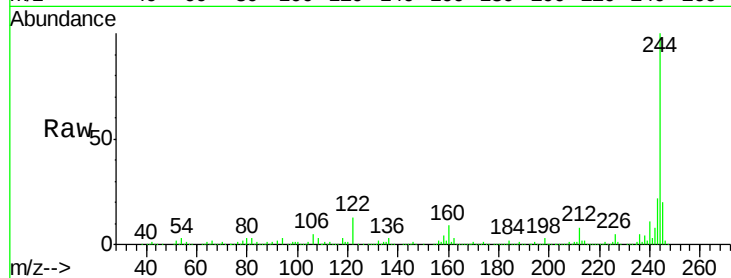
#78  
 Terphenyl-d14  
 Concen: 57.98 ng  
 RT: 12.88 min Scan# 988  
 Delta R.T. -0.03 min  
 Lab File: BF088670.D  
 Acq: 4 Jul 2016 2:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BS-5A-10.5-11FT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.9   | 6.0   | 9.0   |
| 122     | 13.4  | 11.2  | 16.8  |

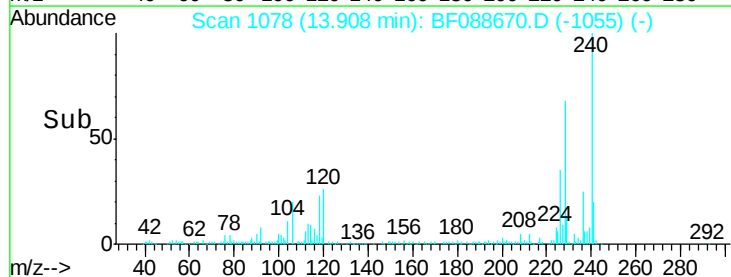
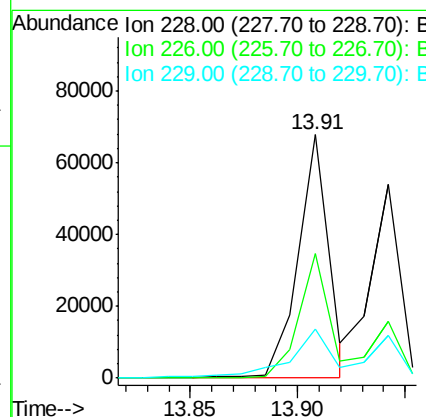
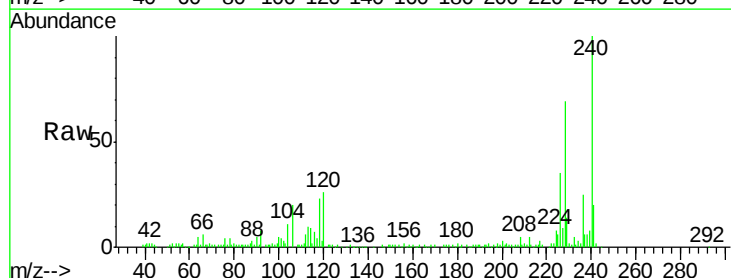
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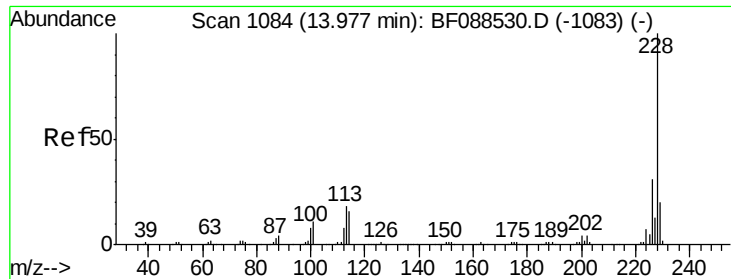
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#80  
 Benzo(a)anthracene  
 Concen: 3.15 ng m  
 RT: 13.91 min Scan# 1078  
 Delta R.T. -0.03 min  
 Lab File: BF088670.D  
 Acq: 4 Jul 2016 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 51.0  | 22.3  | 33.5# |
| 229     | 19.9  | 16.0  | 24.0  |





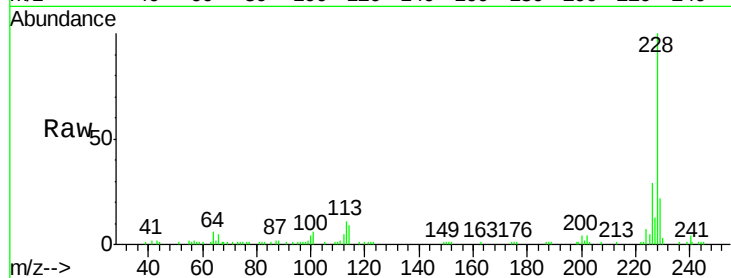
#82  
Chrysene  
Concen: 2.50 ng/ml  
RT: 13.94 min Scan# 1081  
Delta R.T. -0.03 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
BS-5A-10.5-11FT

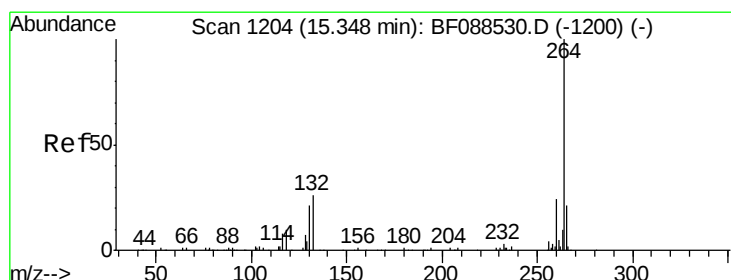
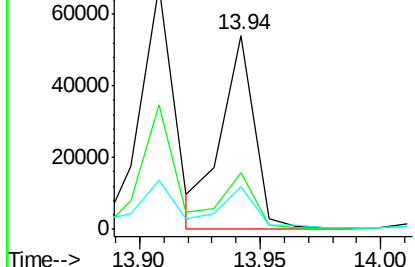
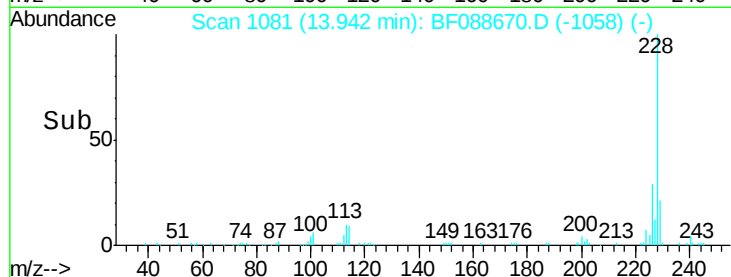
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 25.4  | 38.2  |
| 229     | 22.3  | 16.3  | 24.5  |

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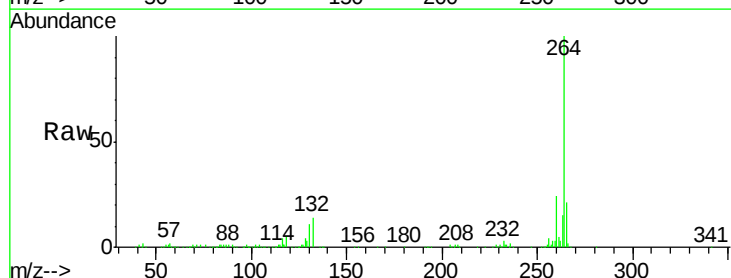


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

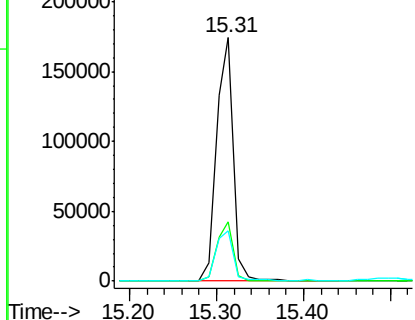
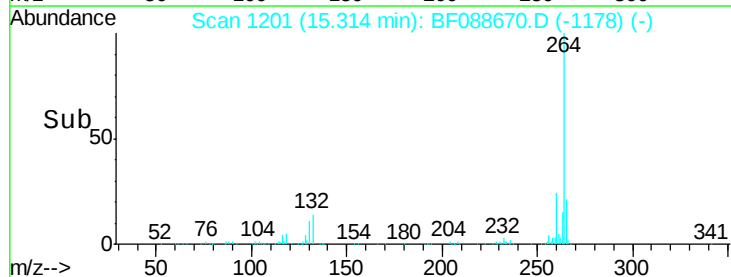


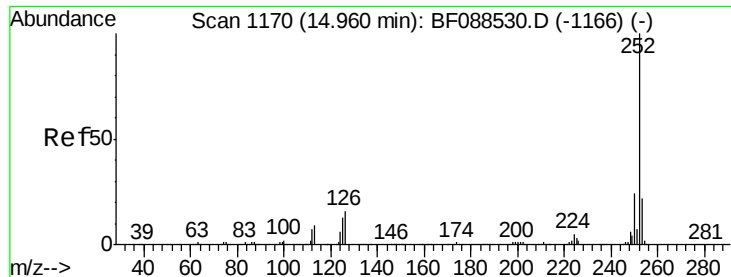
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.31 min Scan# 1201  
Delta R.T. -0.03 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 20.9  | 16.9  | 25.3  |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





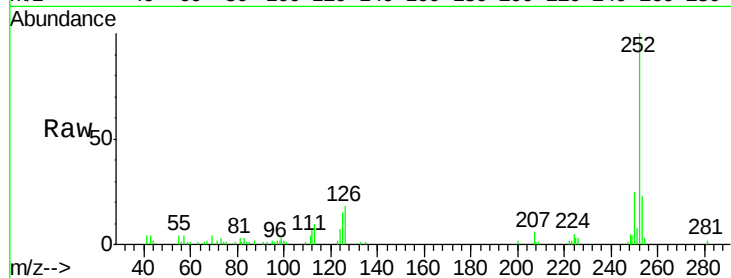
#87  
Benzo(b)fluoranthene  
Concen: 2.61 ng/ml  
RT: 14.91 min Scan# 1166  
Delta R.T. -0.05 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
BS-5A-10.5-11FT

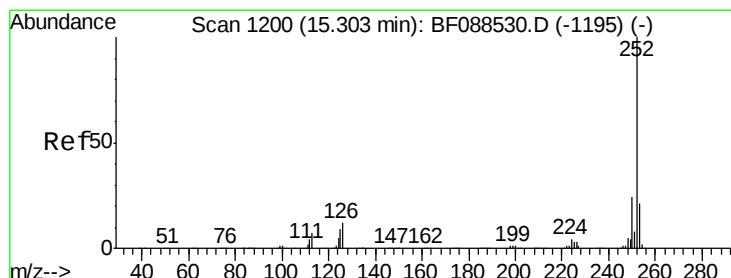
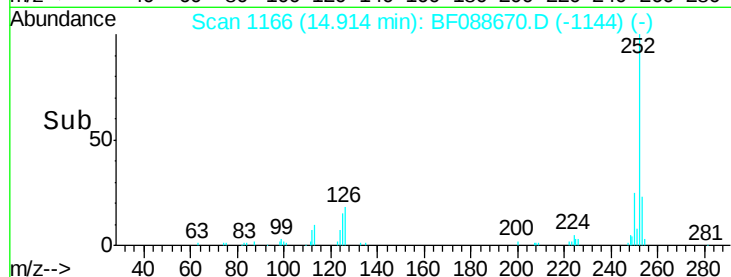
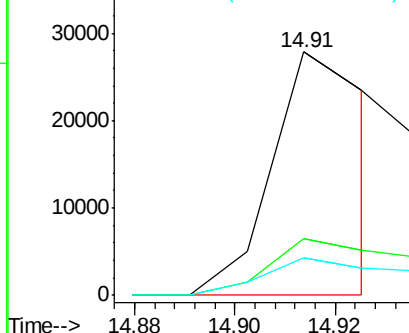
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.4  | 26.2  |
| 125     | 15.3  | 7.1   | 10.7  |

Manual Integrations

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



#89  
Benzo(a)pyrene  
Concen: 3.07 ng/ml  
RT: 15.25 min Scan# 1195  
Delta R.T. -0.06 min  
Lab File: BF088670.D  
Acq: 4 Jul 2016 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.9  | 26.9  |
| 125     | 15.7  | 12.5  | 18.7  |

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

