

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031416\  
 Data File : BF085441.D  
 Acq On : 14 Mar 2016 20:58  
 Operator : UM/SJ  
 Sample : H1722-04  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W170TH-SB-33(0.5-2.0)

Manual Integrations  
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Sohil  
 3/15/2016 2:09:15 PM

Quant Time: Mar 15 03:52:17 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.93  | 152  | 180860   | 20.00  | ng    | -0.06    |
| 21) Naphthalene-d8          | 8.21  | 136  | 765190   | 20.00  | ng    | -0.06    |
| 38) Acenaphthene-d10        | 9.97  | 164  | 345416   | 20.00  | ng    | -0.06    |
| 63) Phenanthrene-d10        | 11.45 | 188  | 600149   | 20.00  | ng    | -0.06    |
| 75) Chrysene-d12            | 14.08 | 240  | 310443   | 20.00  | ng    | -0.07    |
| 86) Perylene-d12            | 15.55 | 264  | 315551   | 20.00  | ng    | -0.07    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.53  | 112  | 1631210  | 151.29 | ng    | -0.05    |
| 7) Phenol-d6                | 6.56  | 99   | 1881810  | 133.21 | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.49  | 82   | 1147644  | 80.26  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol    | 10.76 | 330  | 403033   | 136.36 | ng    | -0.06    |
| 44) 2-Fluorobiphenyl        | 9.29  | 172  | 1849406  | 81.43  | ng    | -0.06    |
| 78) Terphenyl-d14           | 13.04 | 244  | 1360403  | 101.73 | ng    | -0.05    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.68  | 163  | 587779   | 22.17  | ng    | 99       |
| 70) Phenanthrene            | 11.48 | 178  | 450348   | 14.32  | ng    | 98       |
| 71) Anthracene              | 11.52 | 178  | 108461   | 3.25   | ng    | 98       |
| 74) Fluoranthene            | 12.67 | 202  | 550624   | 17.44  | ng    | 95       |
| 77) Pyrene                  | 12.89 | 202  | 474954   | 20.33  | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.07 | 228  | 197964   | 10.65  | ng    | 99       |
| 82) Chrysene                | 14.12 | 228  | 149042m  | 8.68   | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.99 | 276  | 91449    | 6.83   | ng    | # 90     |
| 87) Benzo(b)fluoranthene    | 15.12 | 252  | 194240m  | 9.24   | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.15 | 252  | 66226m   | 3.90   | ng    |          |
| 89) Benzo(a)pyrene          | 15.48 | 252  | 141531   | 8.12   | ng    | # 95     |
| 91) Benzo(g,h,i)perylene    | 17.42 | 276  | 86670    | 5.79   | ng    | 97       |

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

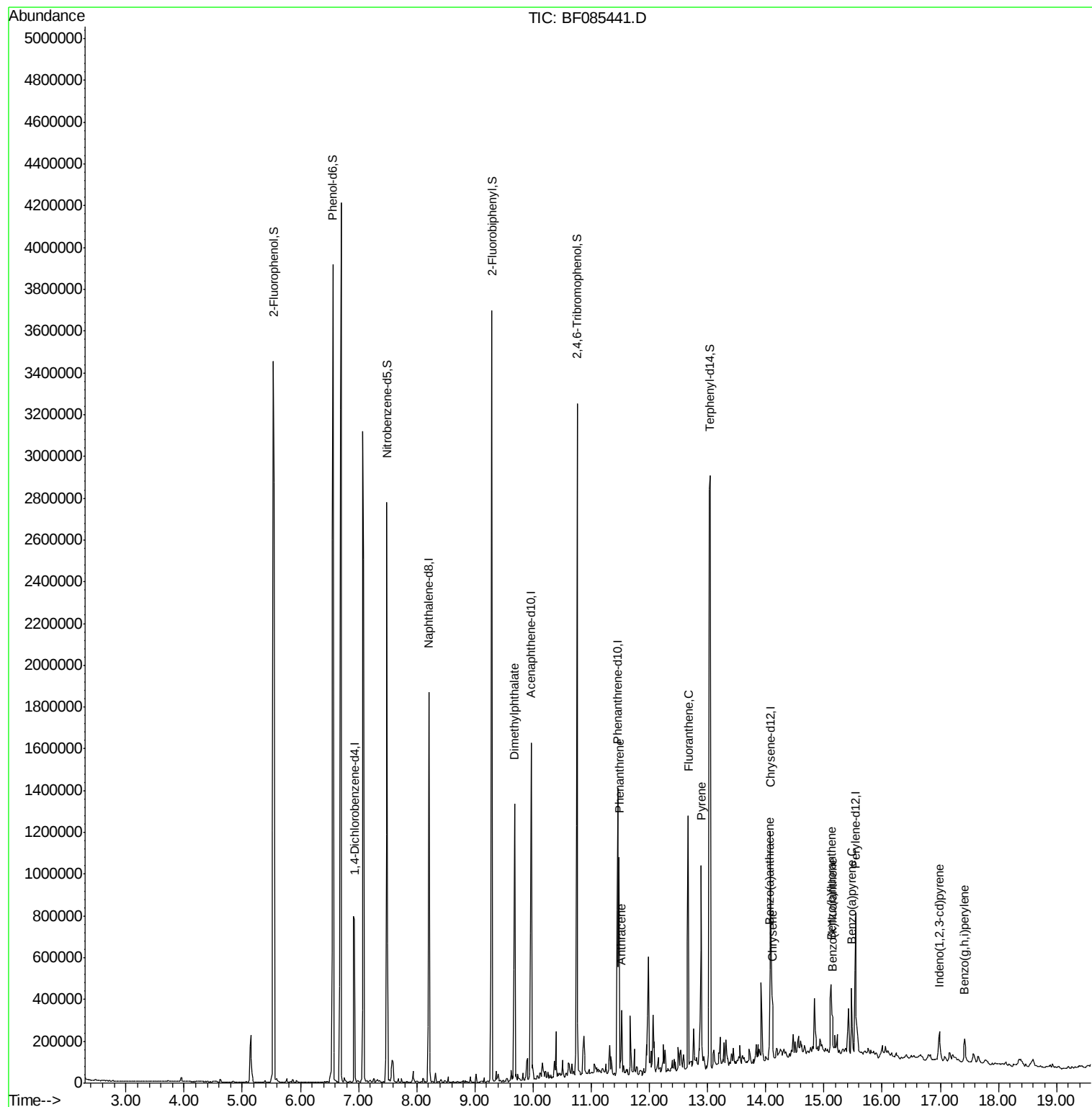
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031416\  
Data File : BF085441.D  
Acq On : 14 Mar 2016 20:58  
Operator : UM/SJ  
Sample : H1722-04  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

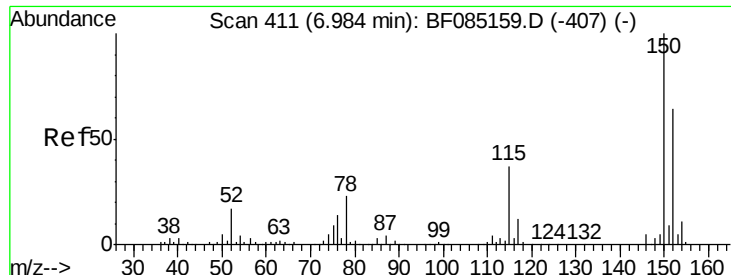
Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-33(0.5-2.0)

Manual Integrations  
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Quant Time: Mar 15 03:52:17 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration

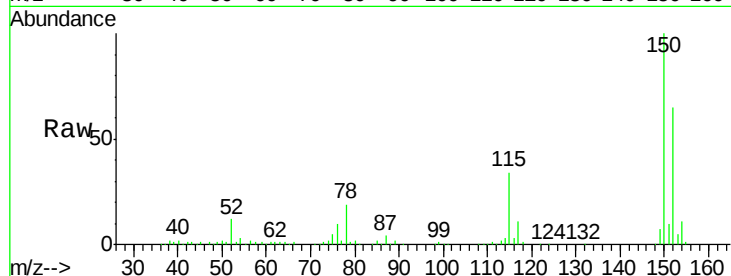




#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.93 min Scan# 406  
 Delta R.T. -0.06 min  
 Lab File: BF085441.D  
 Acq: 14 Mar 2016 20:58

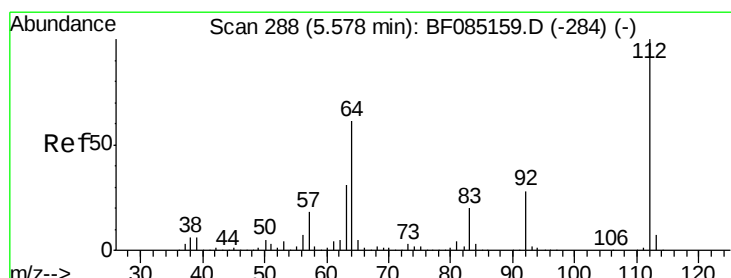
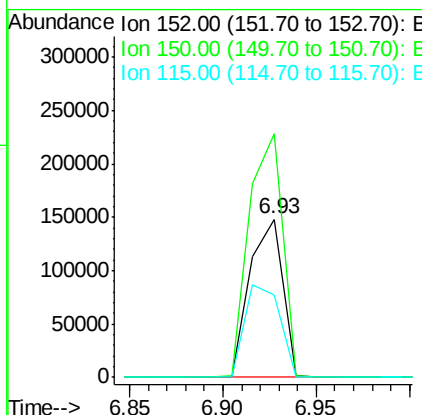
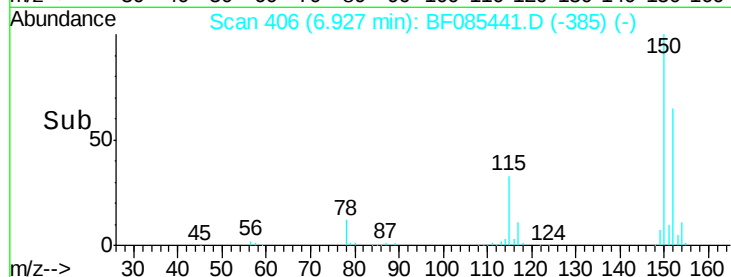
Instrument :  
 BNA\_F  
 ClientSampleId :  
 W170TH-SB-33(0.5-2.0)



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 180860 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 153.6 | 124.6 | 186.8  |
| 115       | 51.8  | 46.6  | 70.0   |

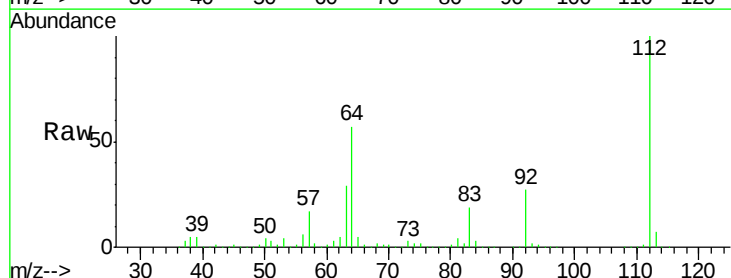
Manual Integrations  
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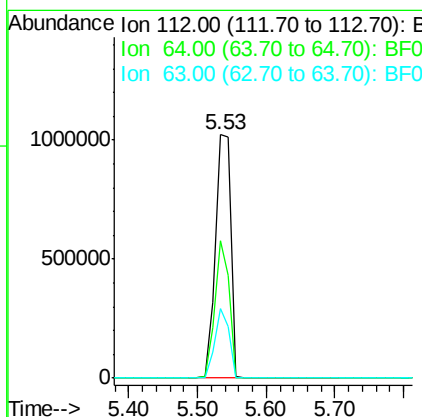
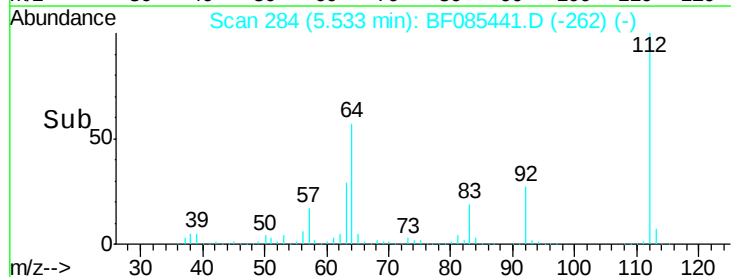


#5

2-Fluorophenol  
 Concen: 151.29 ng  
 RT: 5.53 min Scan# 284  
 Delta R.T. -0.05 min  
 Lab File: BF085441.D  
 Acq: 14 Mar 2016 20:58



|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 112   | Resp: | 1631210 |
| Ion Ratio | Lower | Upper |         |
| 112       | 100   |       |         |
| 64        | 56.7  | 49.0  | 73.4    |
| 63        | 28.8  | 24.8  | 37.2    |





#7

Phenol-d6

Concen: 133.21 ng

RT: 6.56 min Scan# 374

Delta R.T. -0.05 min

Lab File: BF085441.D

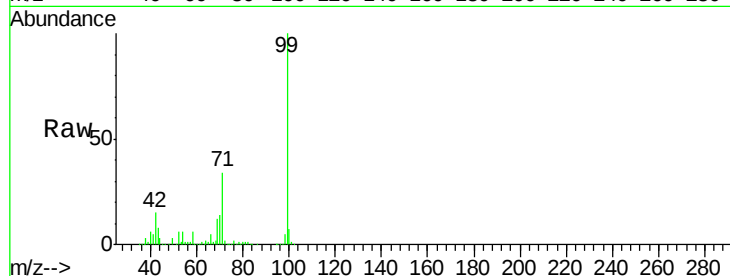
Acq: 14 Mar 2016 20:58

Instrument :

BNA\_F

ClientSampleId :

W170TH-SB-33(0.5-2.0)



Tgt Ion: 99 Resp: 1881810

Ion Ratio Lower Upper

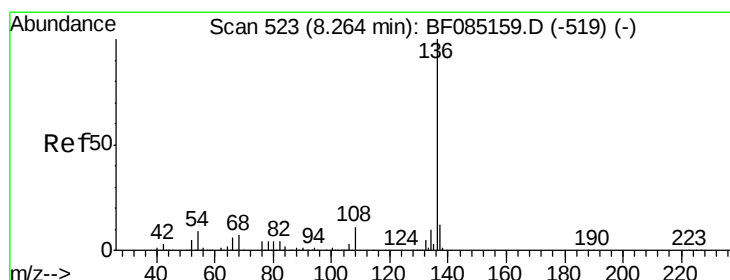
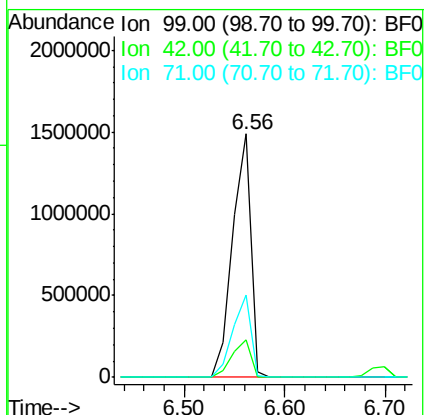
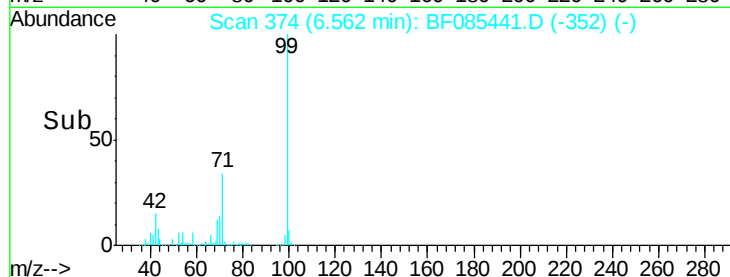
99 100

42 15.3 13.6 20.4

71 33.8 26.7 40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.21 min Scan# 518

Delta R.T. -0.06 min

Lab File: BF085441.D

Acq: 14 Mar 2016 20:58

Tgt Ion: 136 Resp: 765190

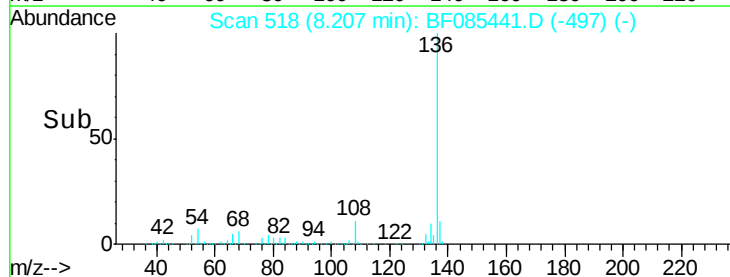
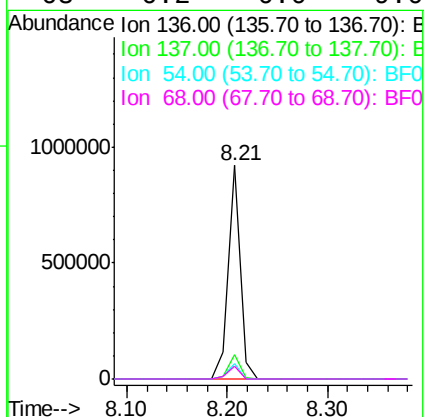
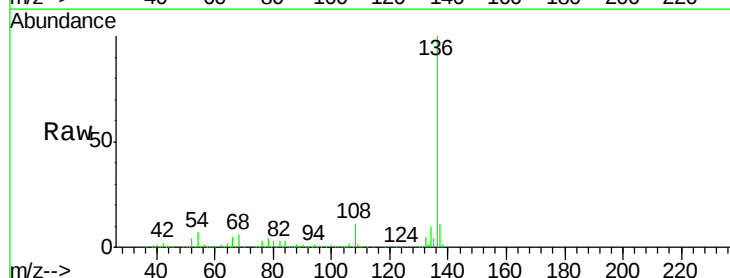
Ion Ratio Lower Upper

136 100

137 11.3 9.3 13.9

54 7.2 7.4 11.2#

68 6.2 6.0 9.0





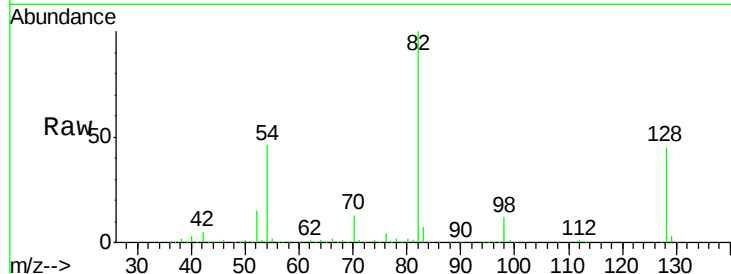
#23  
 Nitrobenzene-d5  
 Concen: 80.26 ng  
 RT: 7.49 min Scan# 455  
 Delta R.T. -0.06 min  
 Lab File: BF085441.D  
 Acq: 14 Mar 2016 20:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W170TH-SB-33(0.5-2.0)

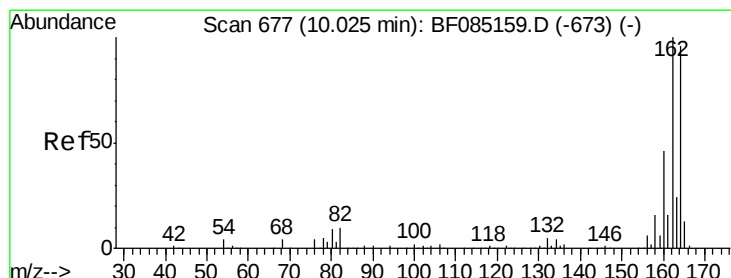
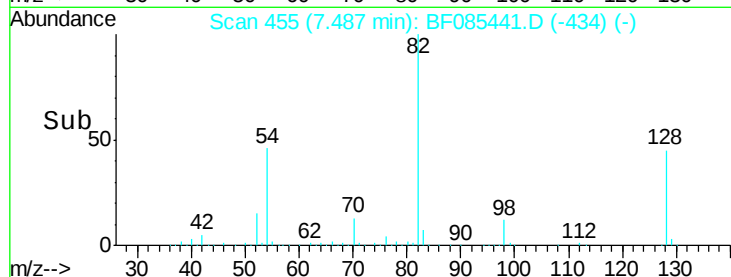
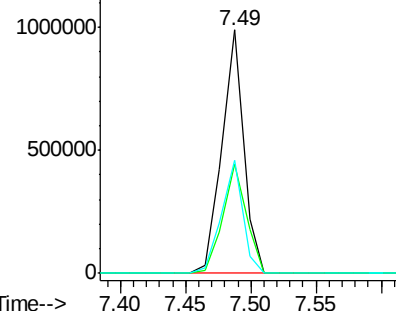
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.7  | 34.5  | 51.7  |
| 54      | 46.3  | 39.3  | 58.9  |

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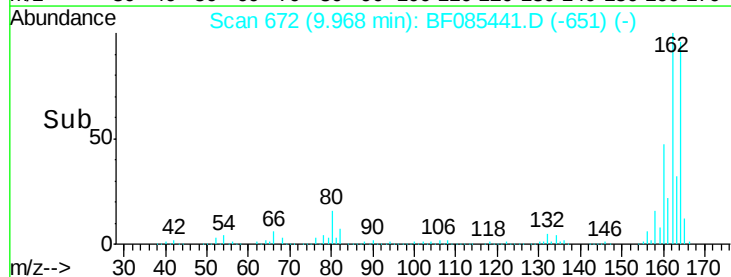
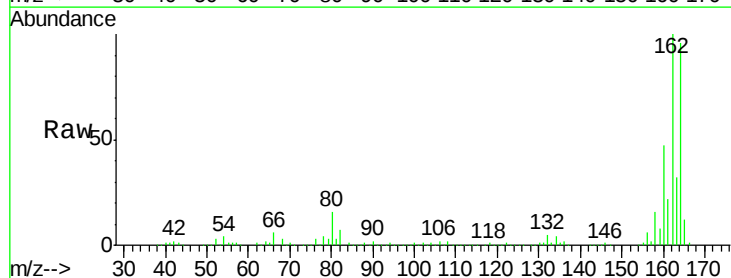
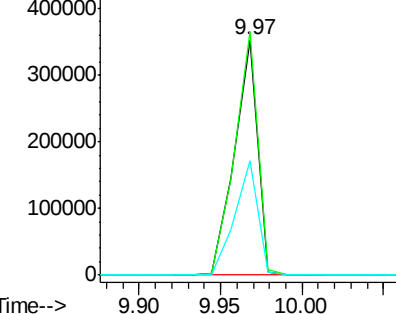
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

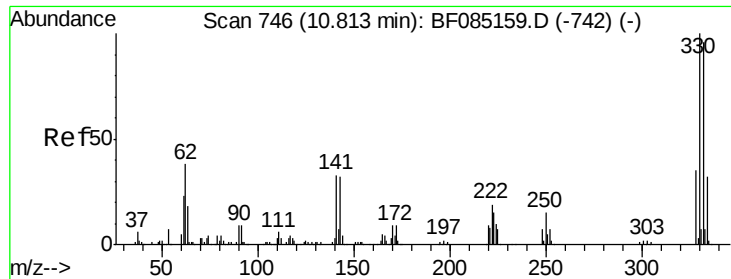


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.97 min Scan# 672  
 Delta R.T. -0.06 min  
 Lab File: BF085441.D  
 Acq: 14 Mar 2016 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.7 | 83.3  | 124.9 |
| 160     | 48.9  | 37.9  | 56.9  |

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





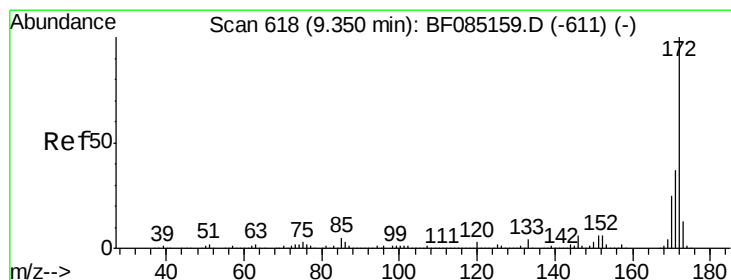
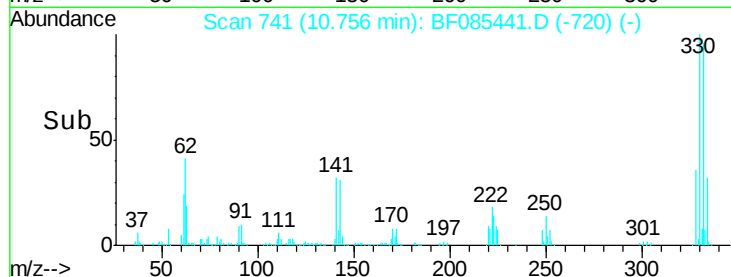
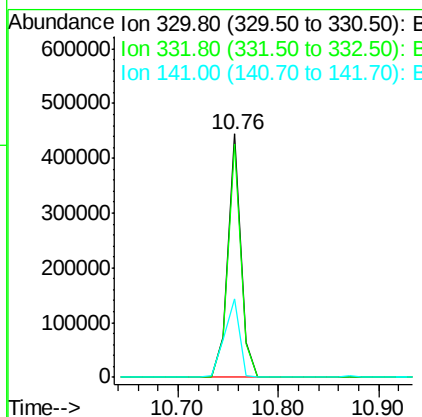
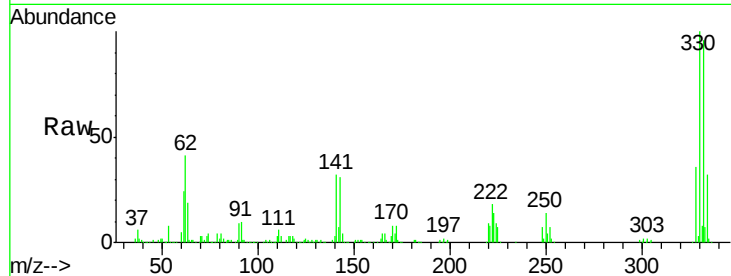
#41  
 2,4,6-Tribromophenol  
 Concen: 136.36 ng  
 RT: 10.76 min Scan# 741  
 Delta R.T. -0.06 min  
 Lab File: BF085441.D  
 Acq: 14 Mar 2016 20:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W170TH-SB-33(0.5-2.0)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 403033 |       |       |
| 332     | 95.6  | 77.1   | 115.7 |       |
| 141     | 37.3  | 35.0   | 52.6  |       |

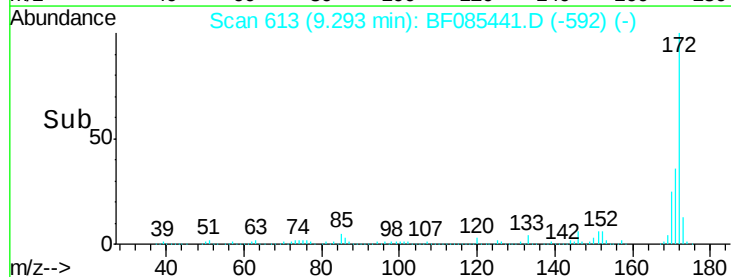
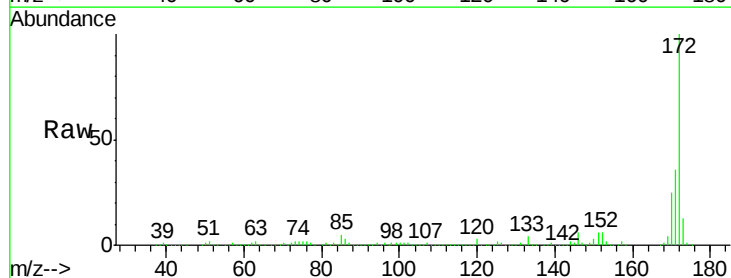
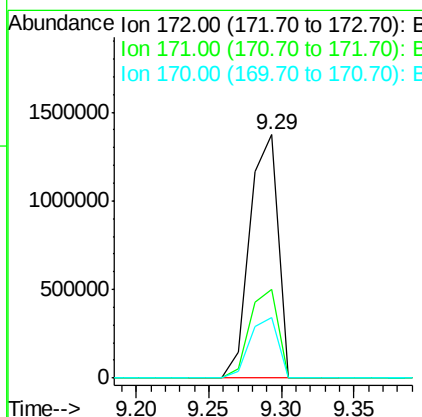
Manual Integrations  
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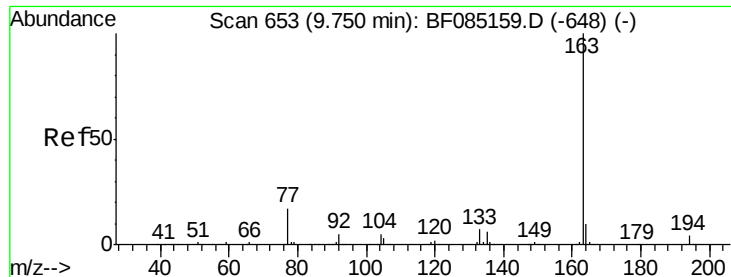
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#44  
 2-Fluorobiphenyl  
 Concen: 81.43 ng  
 RT: 9.29 min Scan# 613  
 Delta R.T. -0.06 min  
 Lab File: BF085441.D  
 Acq: 14 Mar 2016 20:58

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1849406 |       |       |
| 171     | 36.5  | 29.3    | 43.9  |       |
| 170     | 24.7  | 20.0    | 30.0  |       |





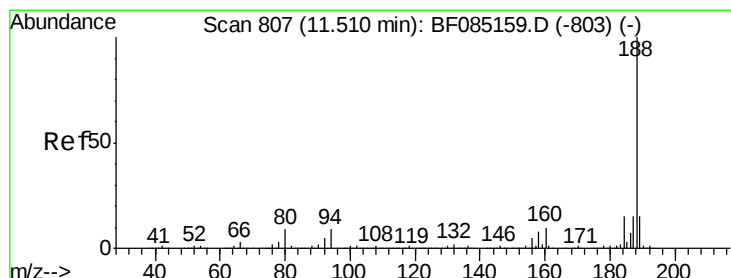
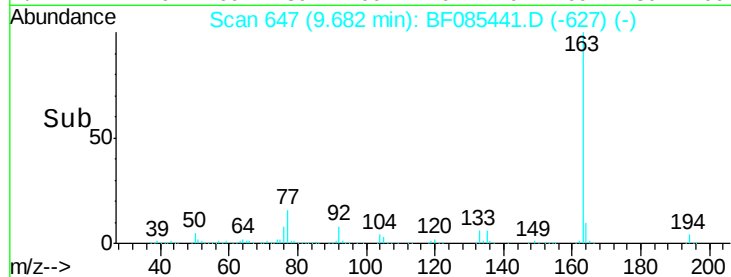
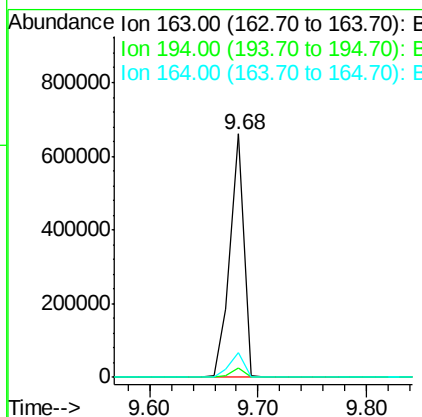
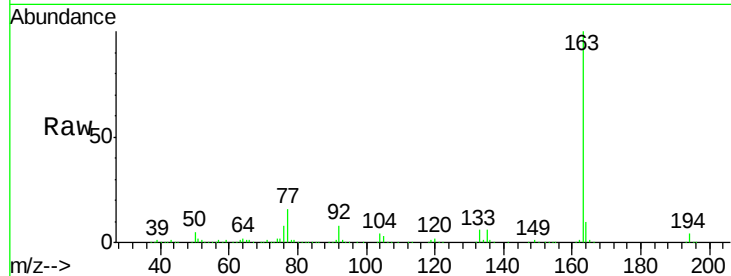
#49  
Dimethylphthalate  
Concen: 22.17 ng  
RT: 9.68 min Scan# 647  
Delta R.T. -0.07 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-33(0.5-2.0)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 587779 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.8   | 3.1   | 4.7    |
| 164       | 9.9   | 8.2   | 12.4   |

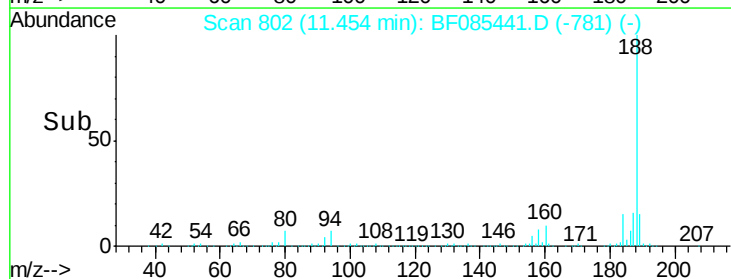
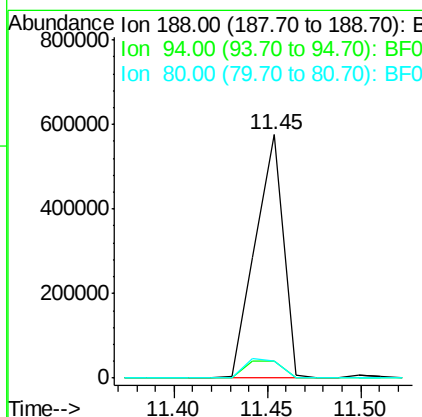
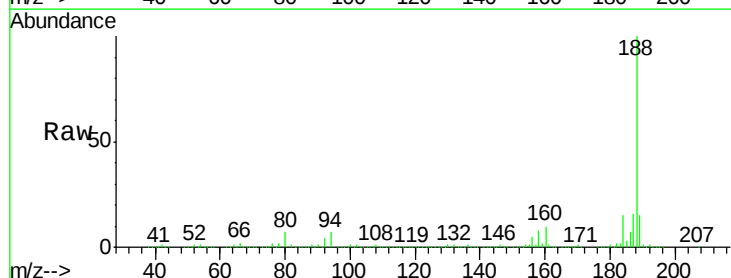
Manual Integrations  
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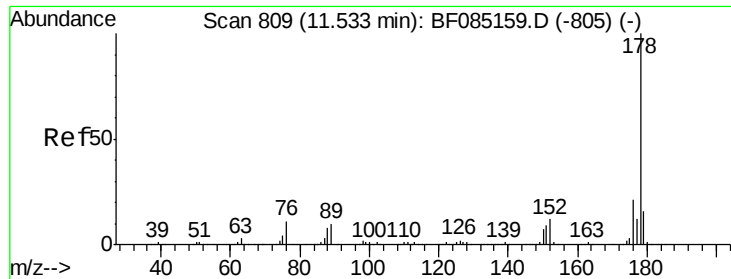
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3/15/2016 2:09:15 PM



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.45 min Scan# 802  
Delta R.T. -0.06 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 600149 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 6.8   | 7.0   | 10.6#  |
| 80        | 7.0   | 7.4   | 11.0#  |





#70

Phenanthrene

Concen: 14.32 ng

RT: 11.48 min Scan# 804

Delta R.T. -0.06 min

Lab File: BF085441.D

Acq: 14 Mar 2016 20:58

Instrument :

BNA\_F

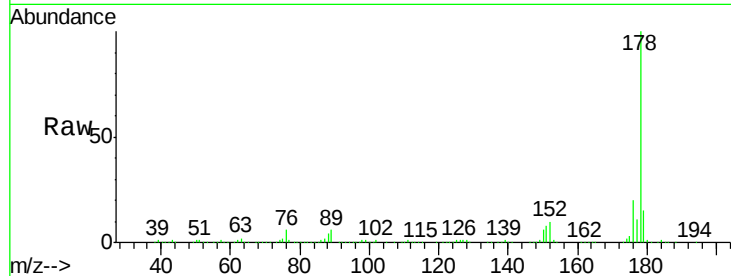
ClientSampleId :

W170TH-SB-33(0.5-2.0)

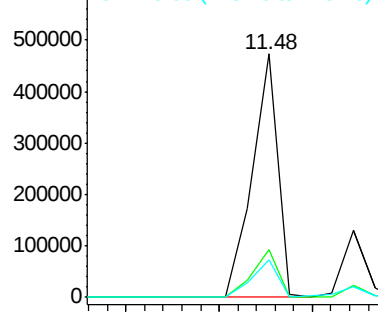
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 450348 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.8  | 16.8  | 25.2   |
| 179       | 15.4  | 13.1  | 19.7   |

Manual Integrations  
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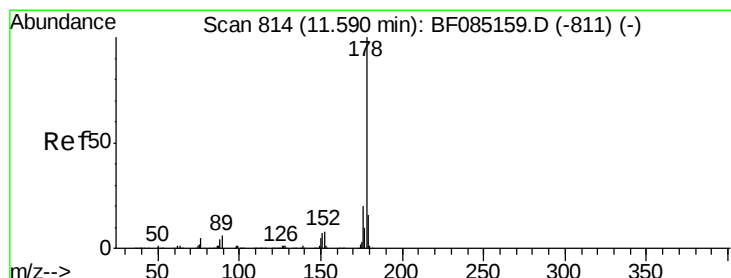
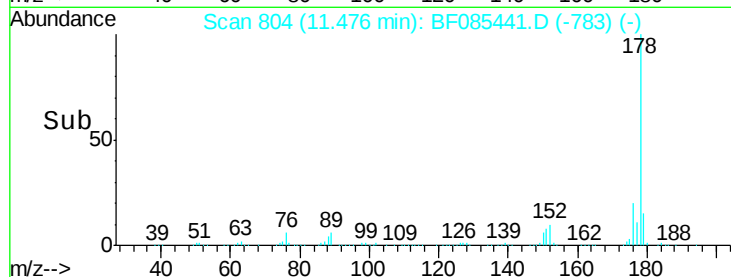
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3/15/2016 2:09:15 PM



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



Time-->



#71

Anthracene

Concen: 3.25 ng

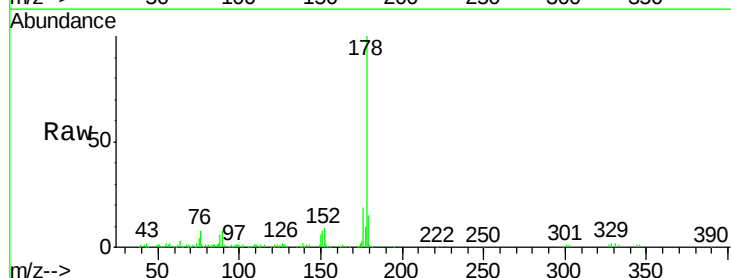
RT: 11.52 min Scan# 808

Delta R.T. -0.07 min

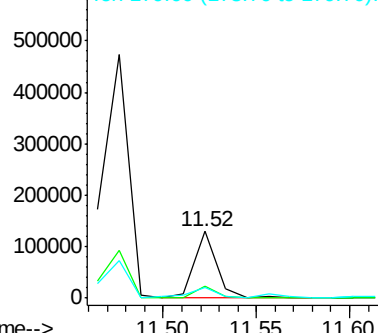
Lab File: BF085441.D

Acq: 14 Mar 2016 20:58

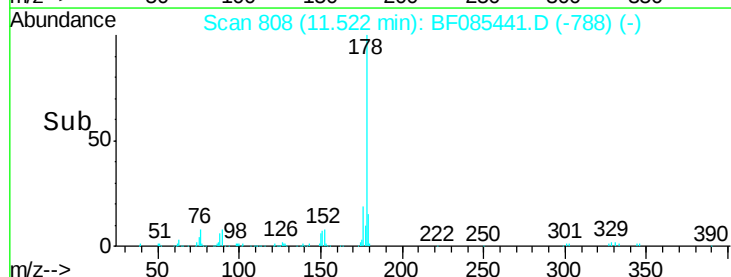
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 108461 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.9  | 15.9  | 23.9   |
| 179       | 15.1  | 12.5  | 18.7   |

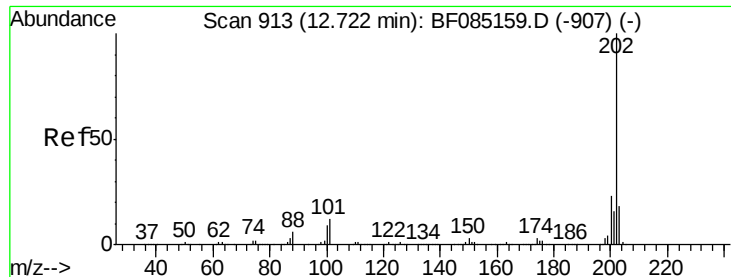


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



Time-->





#74

Fluoranthene

Concen: 17.44 ng

RT: 12.67 min Scan# 908

Delta R.T. -0.06 min

Lab File: BF085441.D

Acq: 14 Mar 2016 20:58

Instrument :

BNA\_F

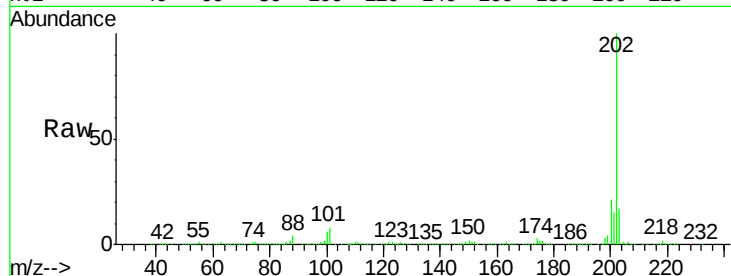
ClientSampleId :

W170TH-SB-33(0.5-2.0)

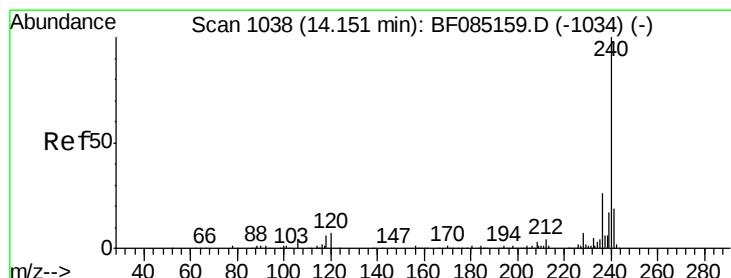
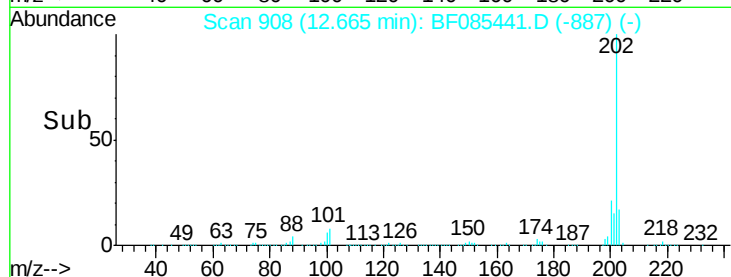
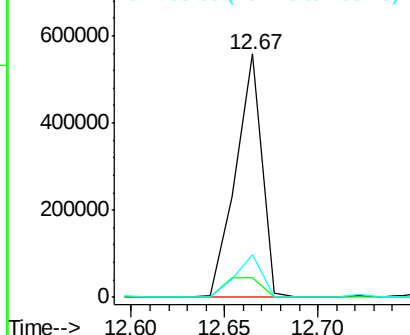
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:202 | Resp: | 550624 |
| Ion | Ratio   | Lower | Upper  |
| 202 | 100     |       |        |
| 101 | 8.3     | 0.0   | 31.8   |
| 203 | 17.5    | 0.0   | 38.4   |

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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: 20.00 ng

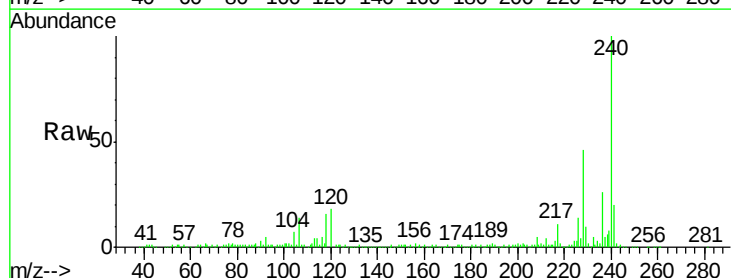
RT: 14.08 min Scan# 1032

Delta R.T. -0.07 min

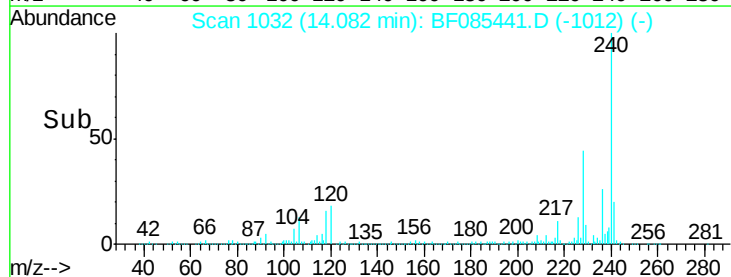
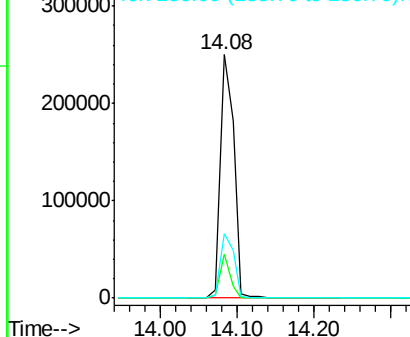
Lab File: BF085441.D

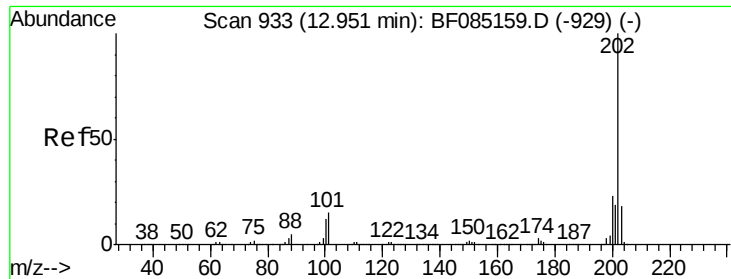
Acq: 14 Mar 2016 20:58

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:240 | Resp: | 310443 |
| Ion | Ratio   | Lower | Upper  |
| 240 | 100     |       |        |
| 120 | 18.3    | 5.3   | 7.9#   |
| 236 | 26.4    | 20.7  | 31.1   |



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: 20.33 ng

RT: 12.89 min Scan# 928

Delta R.T. -0.06 min

Lab File: BF085441.D

Acq: 14 Mar 2016 20:58

Instrument :

BNA\_F

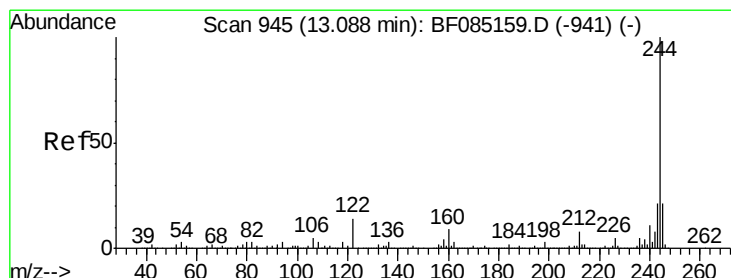
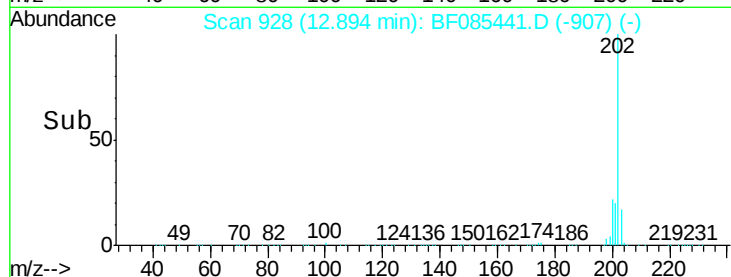
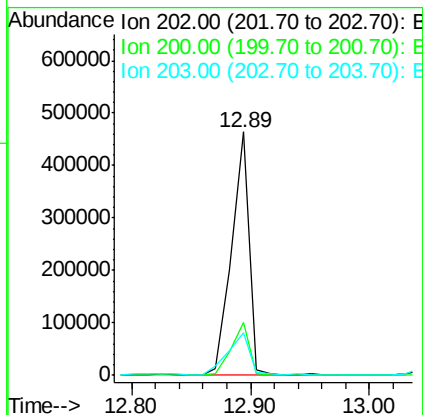
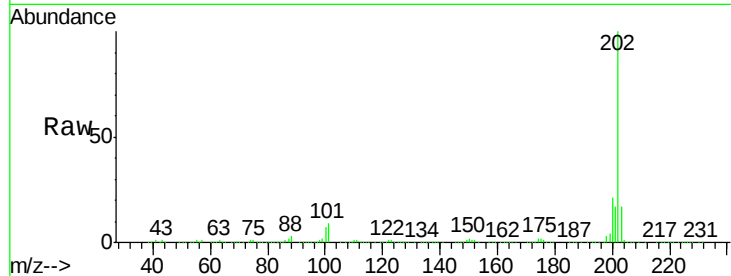
ClientSampleId :

W170TH-SB-33(0.5-2.0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.5  | 18.2  | 27.4  |
| 203     | 17.5  | 14.7  | 22.1  |

Manual Integrations  
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#78

Terphenyl-d14

Concen: 101.73 ng

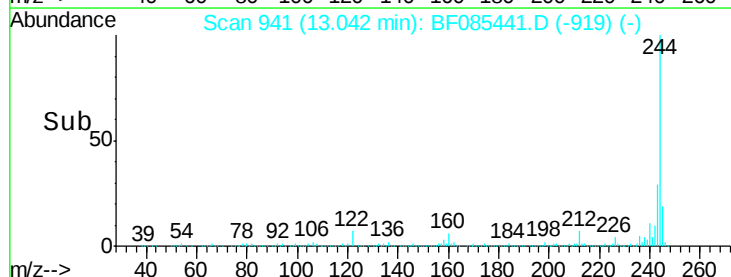
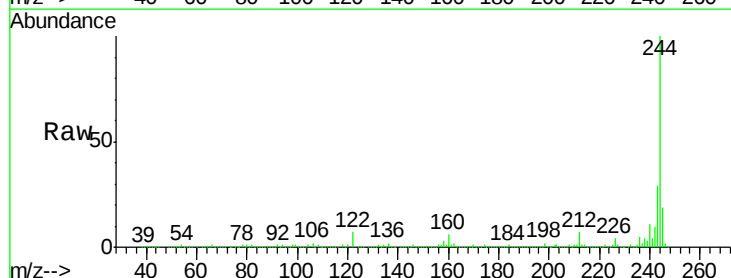
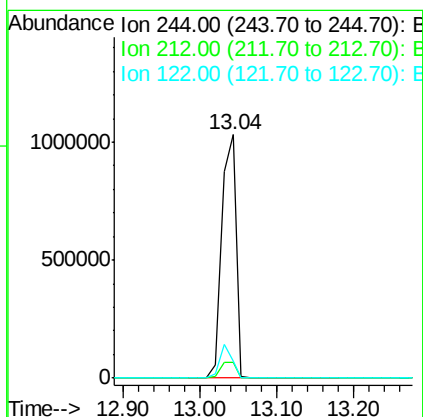
RT: 13.04 min Scan# 941

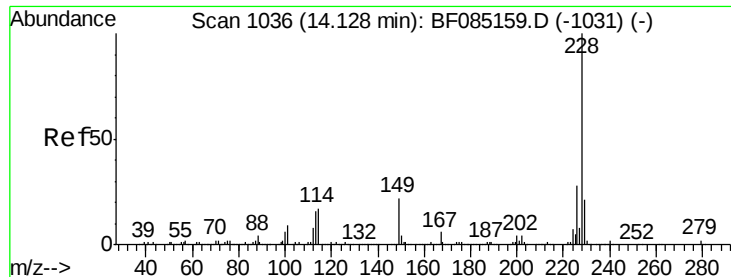
Delta R.T. -0.05 min

Lab File: BF085441.D

Acq: 14 Mar 2016 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 6.4   | 9.6   |
| 122     | 7.2   | 11.4  | 17.2# |





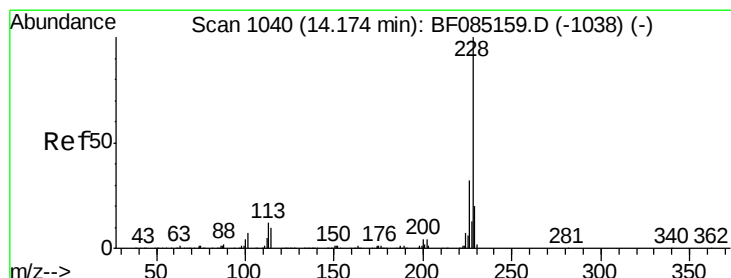
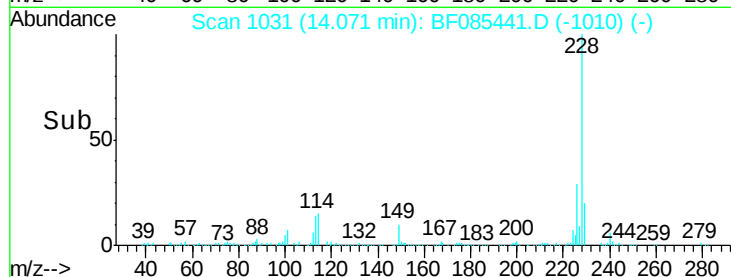
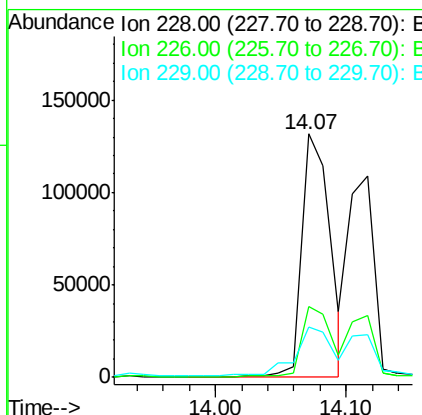
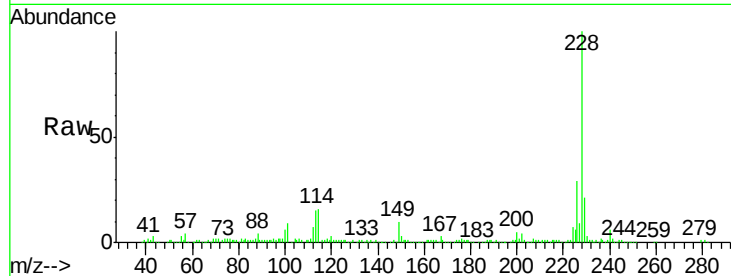
#80  
Benzo(a)anthracene  
Concen: 10.65 ng  
RT: 14.07 min Scan# 1031  
Delta R.T. -0.06 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-33(0.5-2.0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 22.8  | 34.2  |
| 229     | 20.9  | 16.6  | 24.8  |

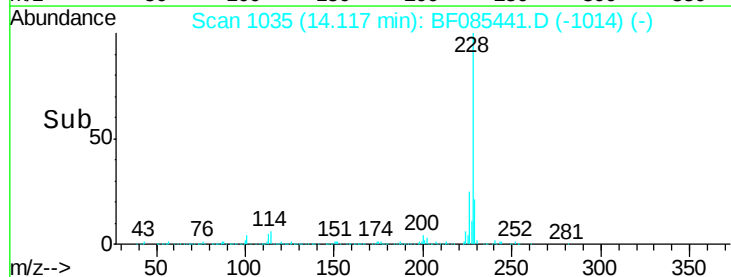
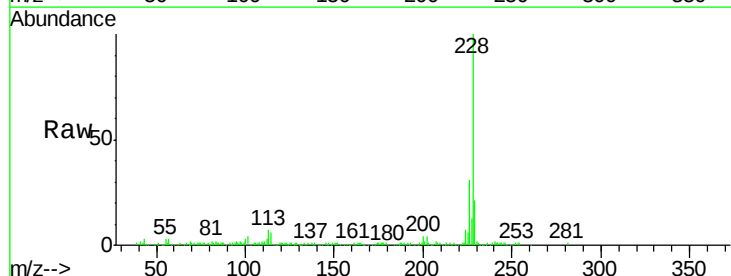
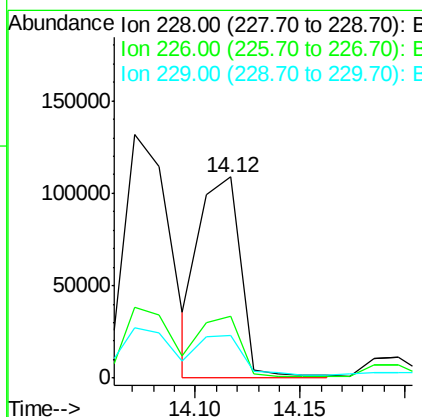
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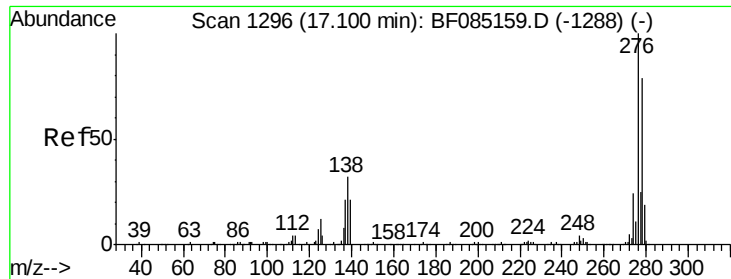
Sohil  
3/15/2016 2:09:15 PM



#82  
Chrysene  
Concen: 8.68 ng m  
RT: 14.12 min Scan# 1035  
Delta R.T. -0.06 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 25.2  | 37.8  |
| 229     | 21.3  | 16.0  | 24.0  |





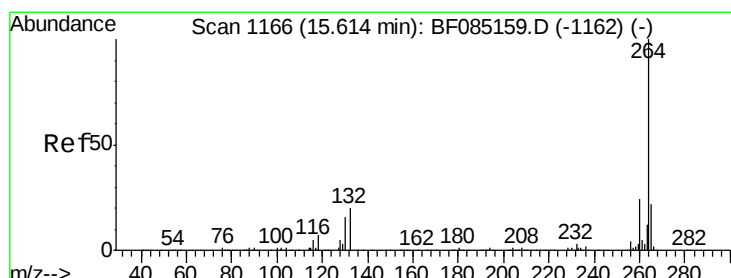
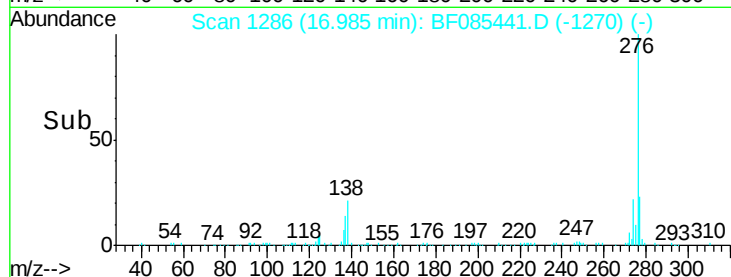
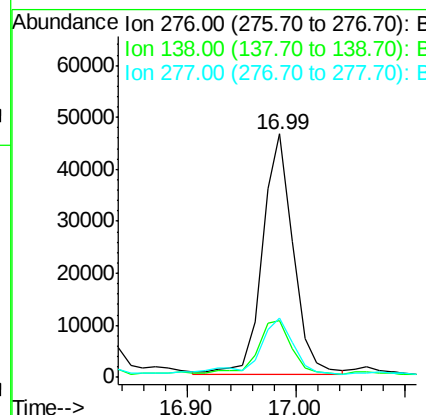
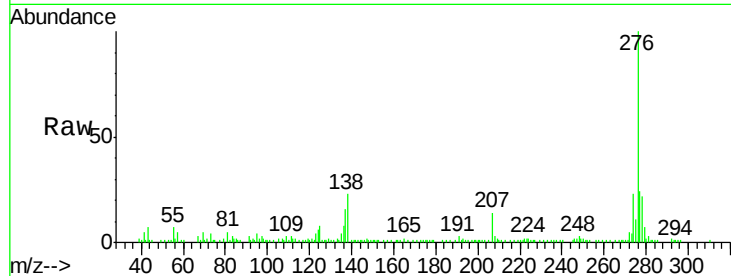
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 6.83 ng  
RT: 16.99 min Scan# 1286  
Delta R.T. -0.11 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-33(0.5-2.0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.1  | 26.4  | 39.6# |
| 277     | 27.3  | 20.2  | 30.2  |

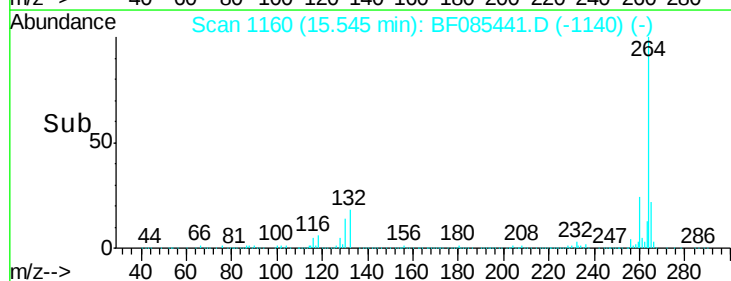
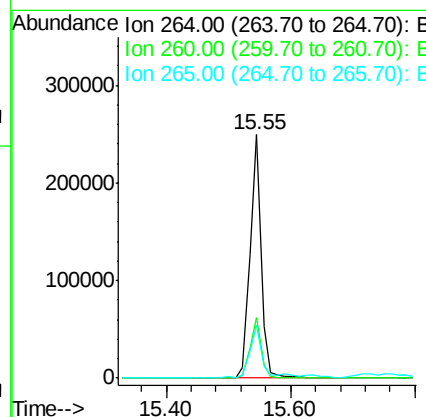
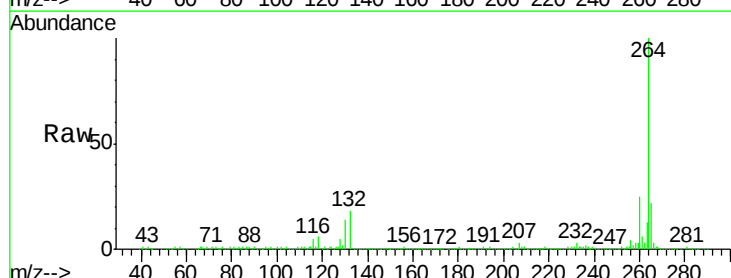
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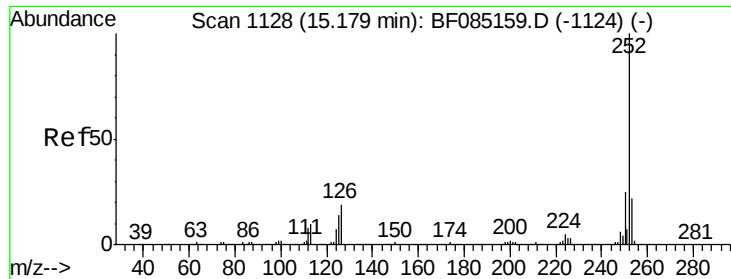
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.55 min Scan# 1160  
Delta R.T. -0.07 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.2  | 28.8  |
| 265     | 22.0  | 17.3  | 25.9  |





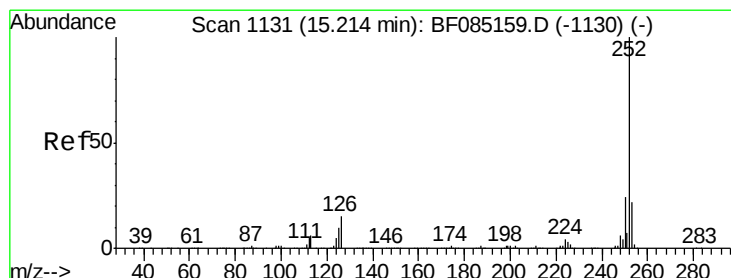
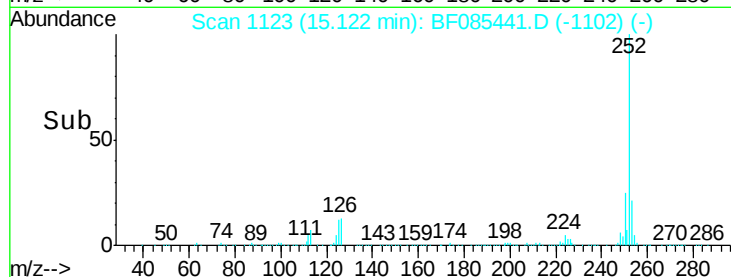
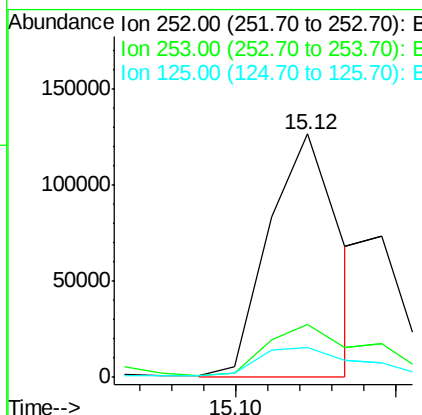
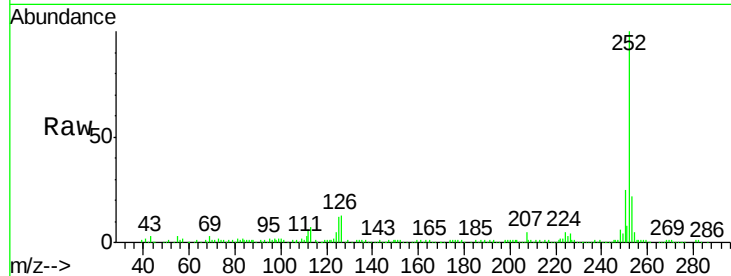
#87  
Benzo(b)fluoranthene  
Concen: 9.24 ng m  
RT: 15.12 min Scan# 1123  
Delta R.T. -0.06 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-33(0.5-2.0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.8  | 26.6  |
| 125     | 12.3  | 11.3  | 16.9  |

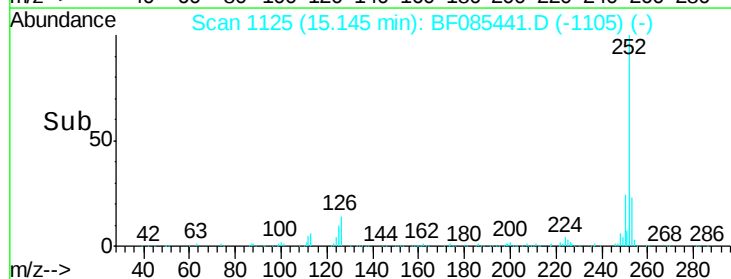
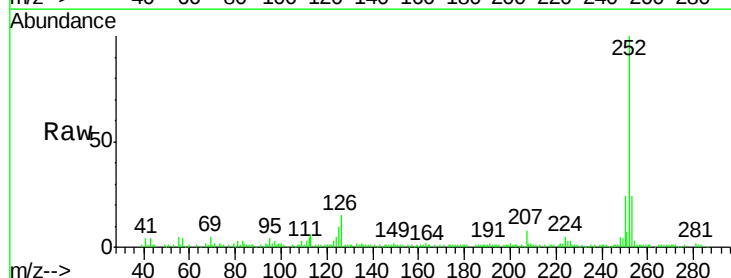
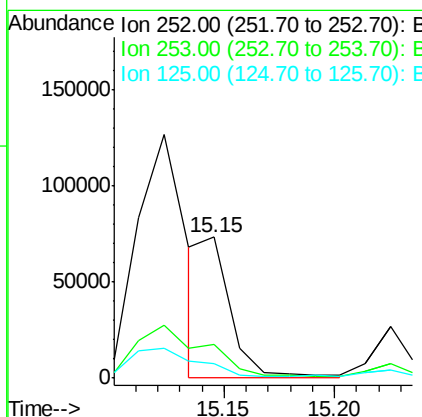
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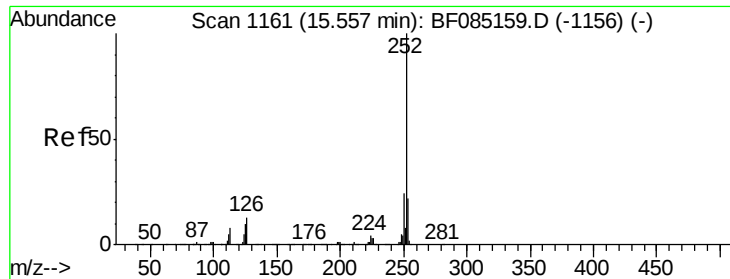
Sohil  
3/15/2016 2:09:15 PM



#88  
Benzo(k)fluoranthene  
Concen: 3.90 ng m  
RT: 15.15 min Scan# 1125  
Delta R.T. -0.07 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.8  | 26.6  |
| 125     | 10.4  | 10.4  | 15.6# |





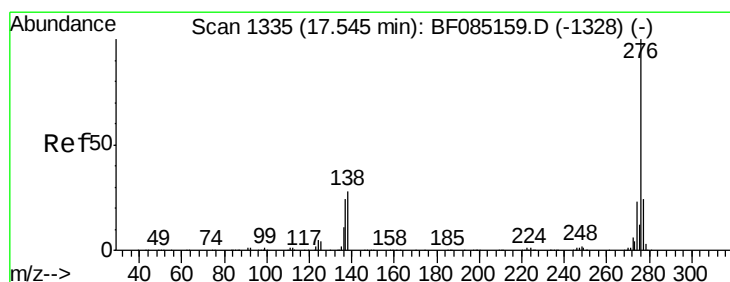
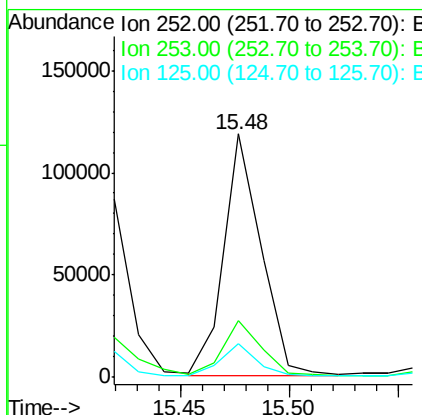
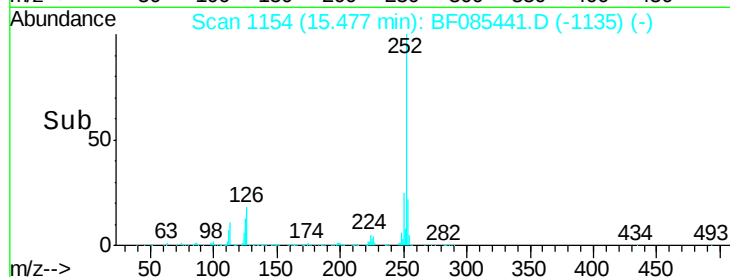
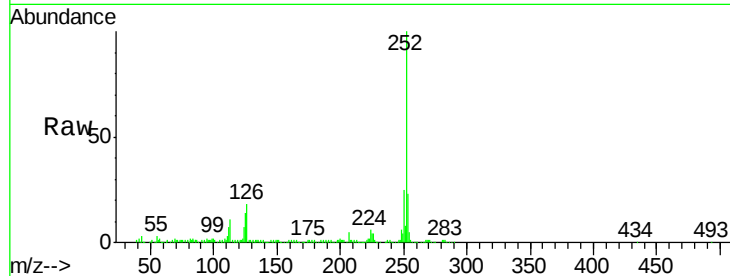
#89  
Benzo(a)pyrene  
Concen: 8.12 ng  
RT: 15.48 min Scan# 1154  
Delta R.T. -0.08 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

Instrument :  
BNA\_F  
ClientSampleId :  
W170TH-SB-33(0.5-2.0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.4  | 26.0  |
| 125     | 13.6  | 8.2   | 12.4  |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 5.79 ng  
RT: 17.42 min Scan# 1324  
Delta R.T. -0.13 min  
Lab File: BF085441.D  
Acq: 14 Mar 2016 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.5  | 19.0  | 28.4  |
| 138     | 26.3  | 22.5  | 33.7  |

