

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030316\  
 Data File : BF085200.D  
 Acq On : 4 Mar 2016 12:11  
 Operator : SJ/IZ  
 Sample : H1649-02  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BT-C3(1)3W-20160301

Manual Integrations  
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 3/4/2016 4:37:00 PM

Quant Time: Mar 04 14:10:44 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   | 6.98  | 152  | 133743   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.26  | 136  | 466663   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.02 | 164  | 185661   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.51 | 188  | 290885   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.15 | 240  | 270203   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.64 | 264  | 239511   | 20.00 | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.59  | 112  | 742629   | 93.14 | ng    | 0.01     |
| 7) Phenol-d6                | 6.61  | 99   | 1011926  | 96.87 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.54  | 82   | 648120   | 74.32 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.81 | 330  | 128018   | 80.58 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.35  | 172  | 983605   | 80.57 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.10 | 244  | 611213   | 52.51 | ng    | 0.01     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 8.29  | 128  | 73301    | 3.19  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.98  | 142  | 41695    | 2.83  | ng    | 98       |
| 48) Acenaphthylene          | 9.89  | 152  | 47101    | 2.50  | ng    | 97       |
| 49) Dimethylphthalate       | 9.74  | 163  | 174567   | 12.25 | ng    | 98       |
| 70) Phenanthrene            | 11.53 | 178  | 290358   | 19.05 | ng    | 98       |
| 71) Anthracene              | 11.59 | 178  | 72071    | 4.45  | ng    | 97       |
| 72) Carbazole               | 11.74 | 167  | 29879    | 2.11  | ng    | 99       |
| 74) Fluoranthene            | 12.72 | 202  | 426897   | 27.90 | ng    | 96       |
| 77) Pyrene                  | 12.95 | 202  | 393077   | 19.33 | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.14 | 228  | 234010   | 14.47 | ng    | 97       |
| 82) Chrysene                | 14.17 | 228  | 169534   | 11.35 | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.12 | 276  | 93389    | 8.01  | ng    | 92       |
| 87) Benzo(b)fluoranthene    | 15.20 | 252  | 250285m  | 15.68 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.23 | 252  | 83893m   | 6.52  | ng    |          |
| 89) Benzo(a)pyrene          | 15.57 | 252  | 162130   | 12.26 | ng    | # 87     |
| 91) Benzo(g,h,i)perylene    | 17.57 | 276  | 86018    | 7.58  | ng    | 96       |

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

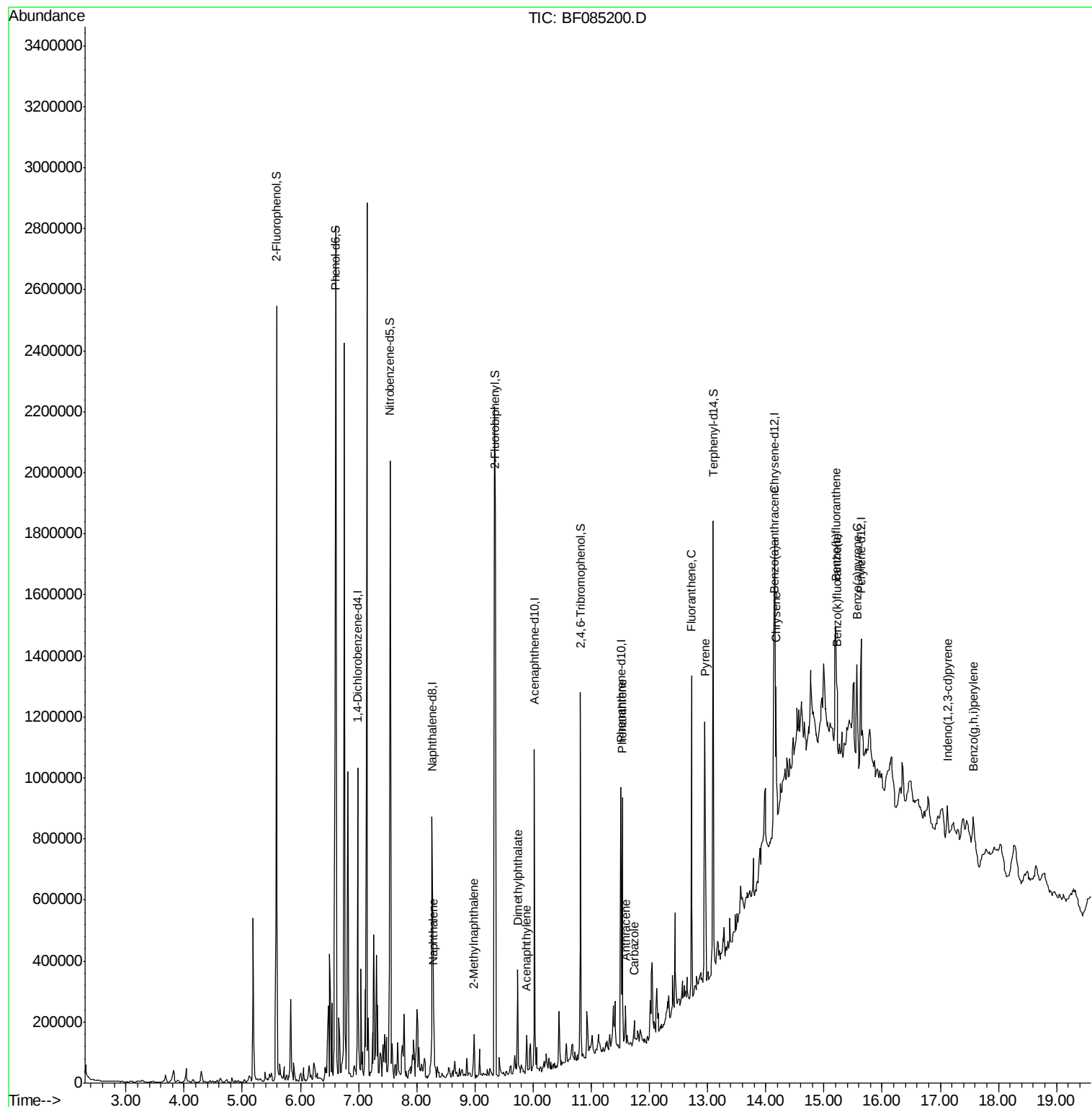
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030316\  
Data File : BF085200.D  
Acq On : 4 Mar 2016 12:11  
Operator : SJ/IZ  
Sample : H1649-02  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
BT-C3(1)3W-20160301

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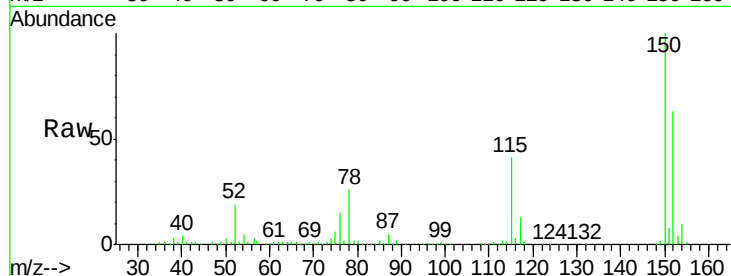
Quant Time: Mar 04 14:10:44 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.98 min Scan# 411  
 Delta R.T. 0.00 min  
 Lab File: BF085200.D  
 Acq: 4 Mar 2016 12:11

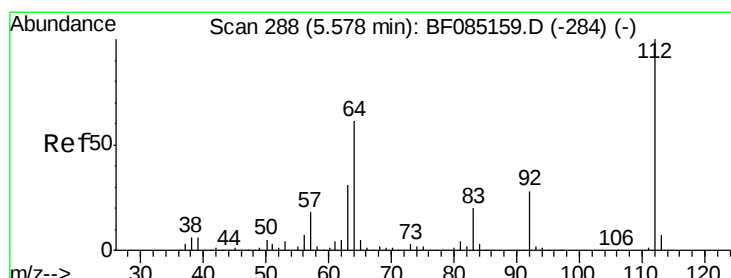
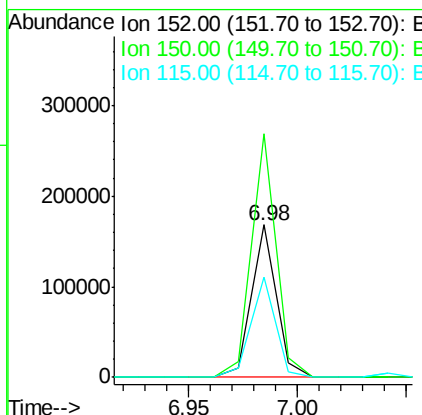
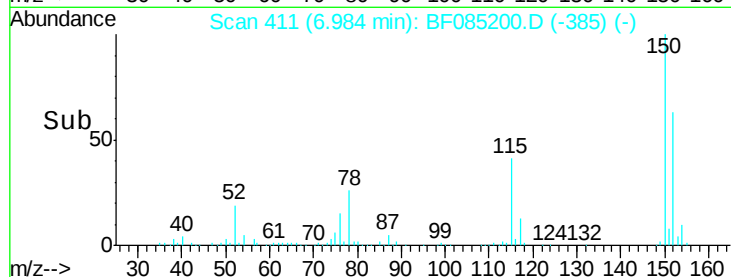
Instrument :  
 BNA\_F  
 ClientSampleId :  
 BT-C3(1)3W-20160301



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.5 | 124.6 | 186.8 |
| 115     | 65.6  | 46.6  | 70.0  |

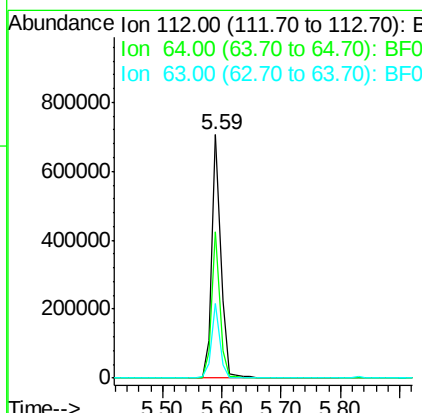
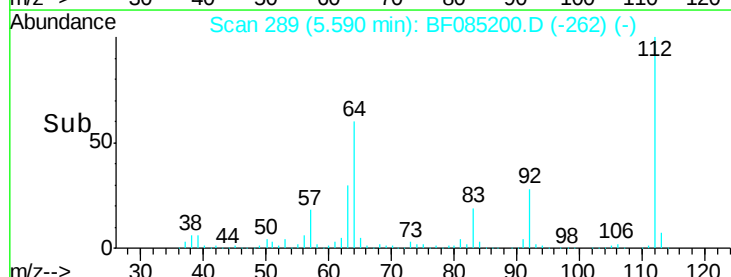
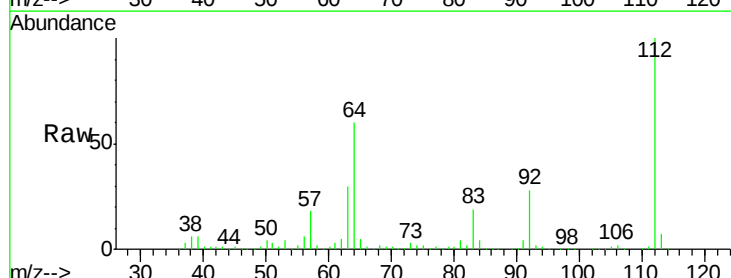
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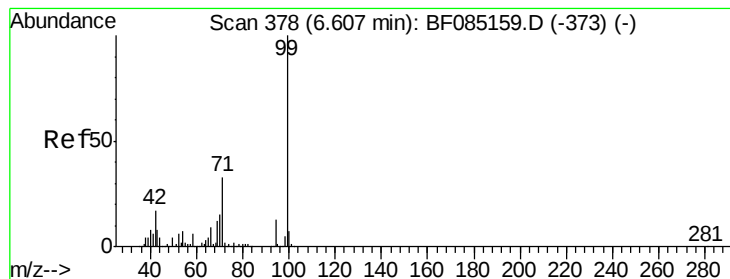
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 3/4/2016 4:37:00 PM



#5  
 2-Fluorophenol  
 Concen: 93.14 ng  
 RT: 5.59 min Scan# 289  
 Delta R.T. 0.01 min  
 Lab File: BF085200.D  
 Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.1  | 49.0  | 73.4  |
| 63      | 30.4  | 24.8  | 37.2  |





#7

Phenol-d6

Concen: 96.87 ng

RT: 6.61 min Scan# 378

Delta R.T. 0.00 min

Lab File: BF085200.D

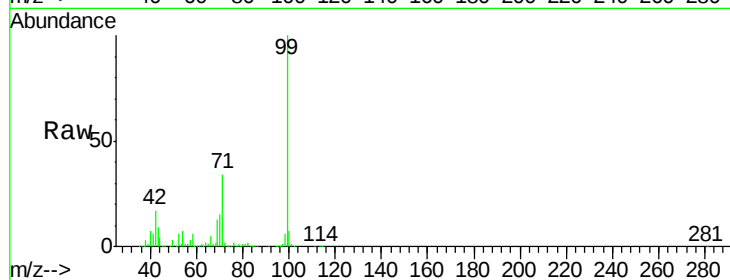
Acq: 4 Mar 2016 12:11

Instrument :

BNA\_F

ClientSampleId :

BT-C3(1)3W-20160301



Tgt Ion: 99 Resp: 1011926

Ion Ratio Lower Upper

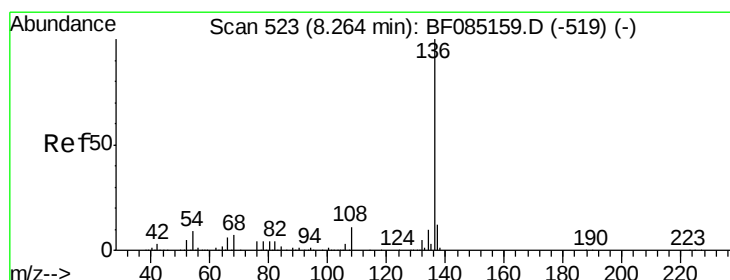
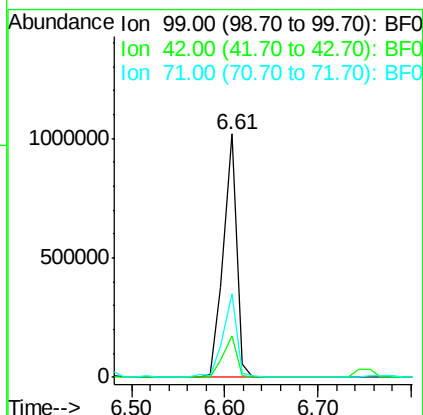
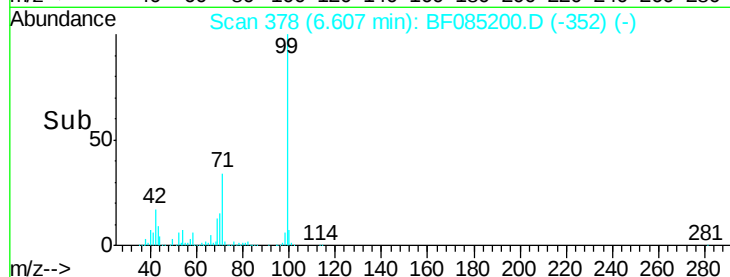
99 100

42 16.8 13.6 20.4

71 34.3 26.7 40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.26 min Scan# 523

Delta R.T. 0.00 min

Lab File: BF085200.D

Acq: 4 Mar 2016 12:11

Tgt Ion: 136 Resp: 466663

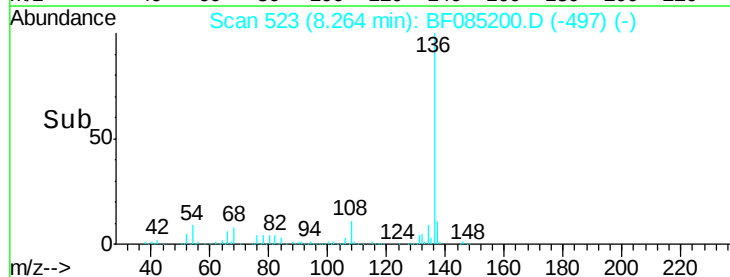
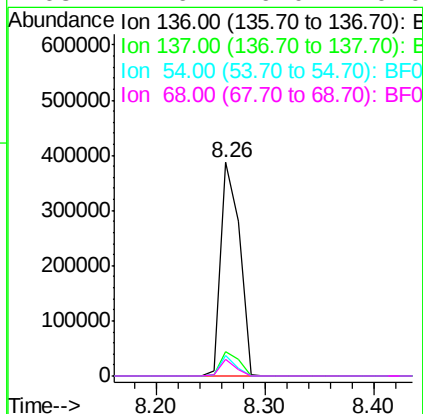
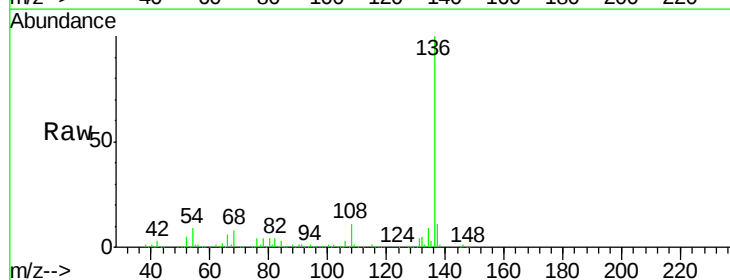
Ion Ratio Lower Upper

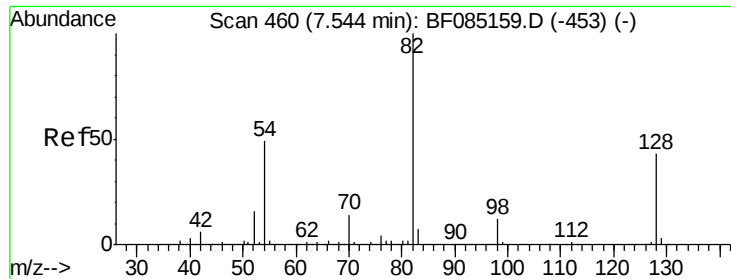
136 100

137 11.4 9.3 13.9

54 9.4 7.4 11.2

68 7.6 6.0 9.0





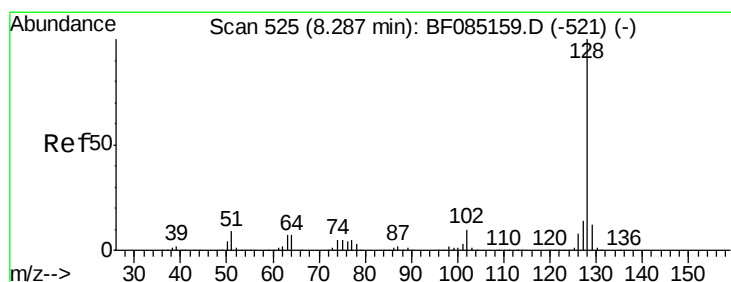
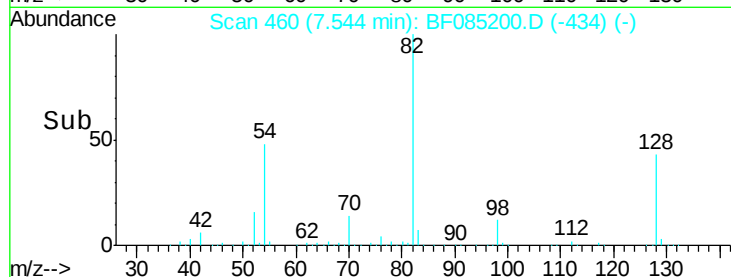
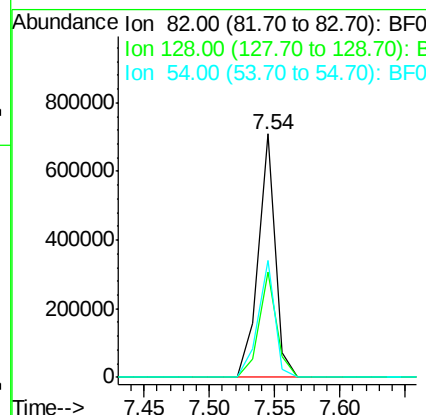
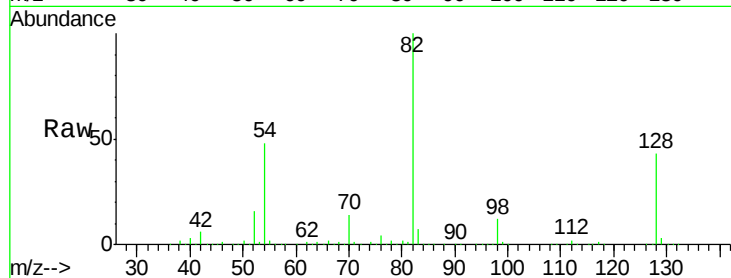
#23  
Nitrobenzene-d5  
Concen: 74.32 ng  
RT: 7.54 min Scan# 460  
Delta R.T. 0.00 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
BT-C3(1)3W-20160301

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 82      | 100   |            |            |
| 128     | 43.1  | 34.5       | 51.7       |
| 54      | 48.1  | 39.3       | 58.9       |

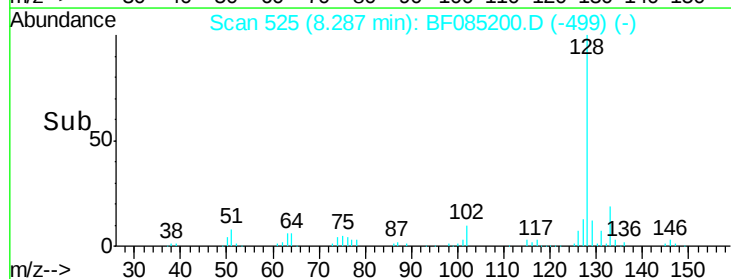
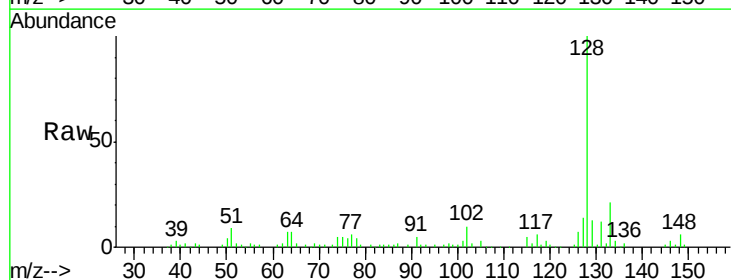
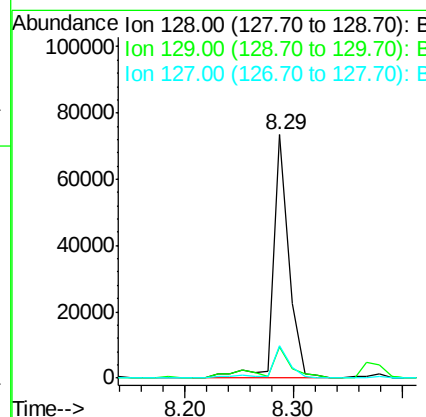
Manual Integrations  
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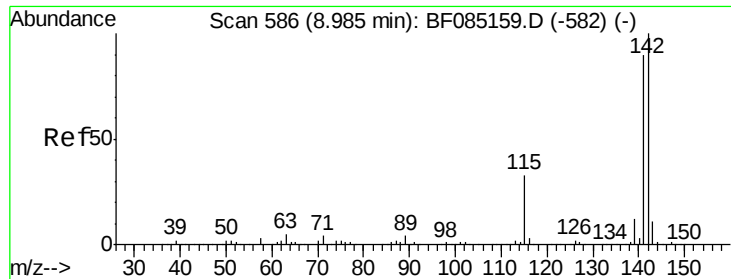
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#31  
Naphthalene  
Concen: 3.19 ng  
RT: 8.29 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 128     | 100   |            |            |
| 129     | 12.9  | 9.7        | 14.5       |
| 127     | 13.5  | 11.2       | 16.8       |





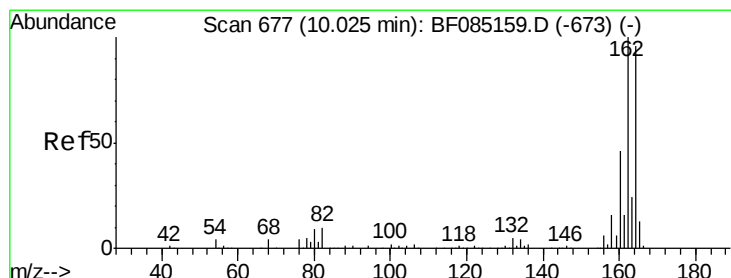
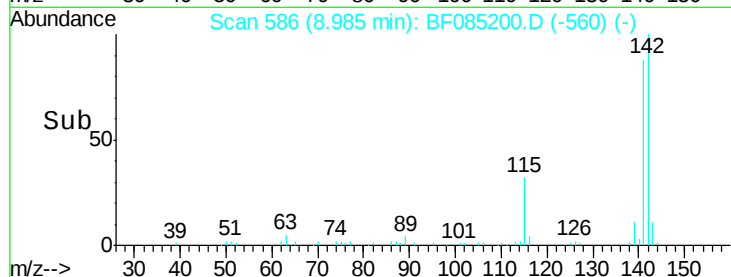
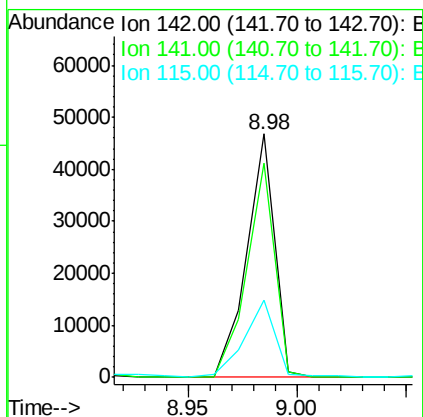
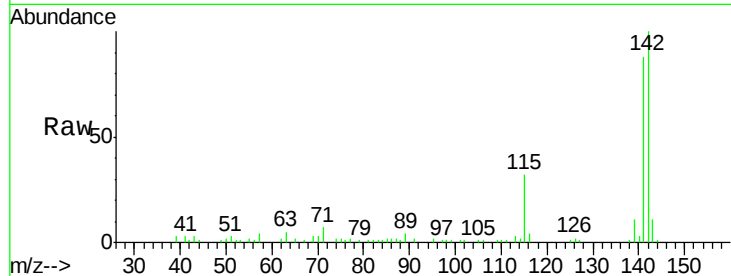
#37  
2-Methylnaphthalene  
Concen: 2.83 ng  
RT: 8.98 min Scan# 586  
Delta R.T. 0.00 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
BT-C3(1)3W-20160301

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.1  | 71.7  | 107.5 |
| 115     | 31.7  | 26.2  | 39.4  |

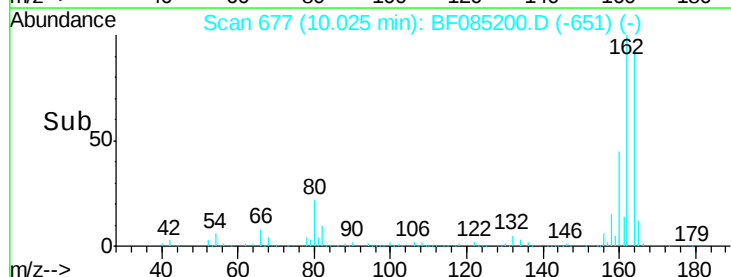
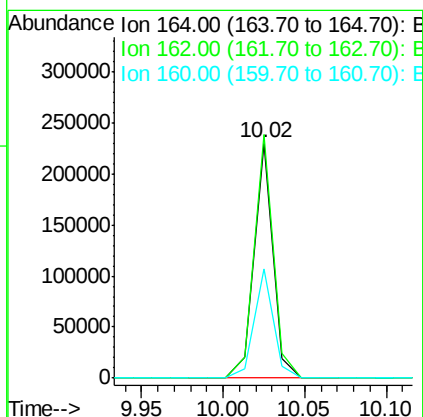
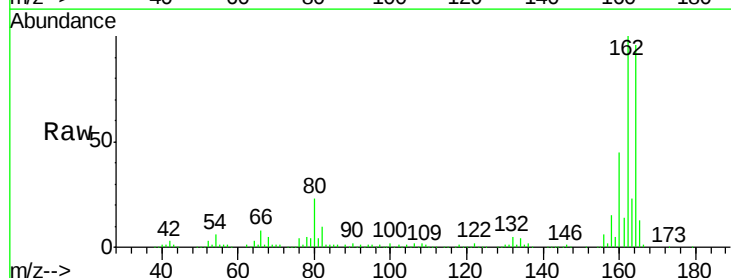
Manual Integrations  
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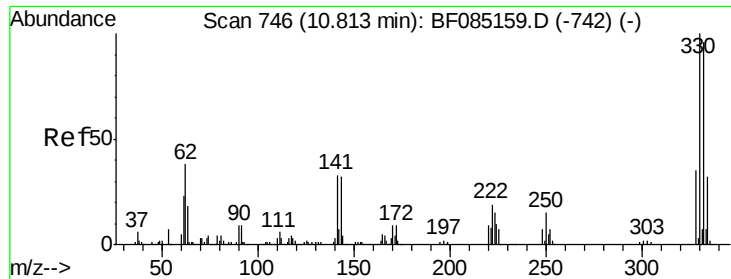
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 10.02 min Scan# 677  
Delta R.T. 0.00 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

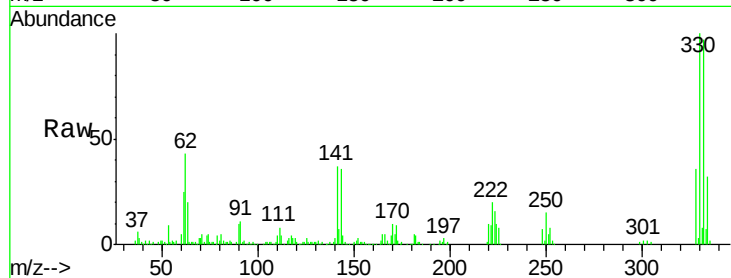
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.7 | 83.3  | 124.9 |
| 160     | 46.6  | 37.9  | 56.9  |





#41  
 2,4,6-Tribromophenol  
 Concen: 80.58 ng  
 RT: 10.81 min Scan# 746  
 Delta R.T. 0.00 min  
 Lab File: BF085200.D  
 Acq: 4 Mar 2016 12:11

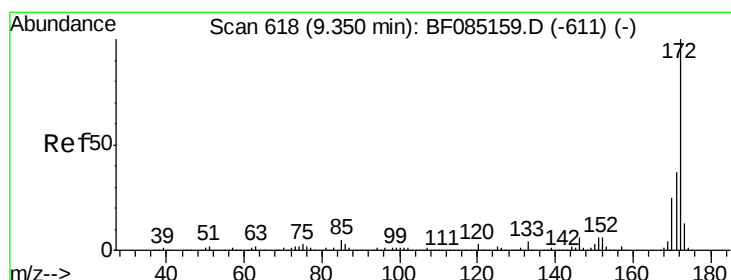
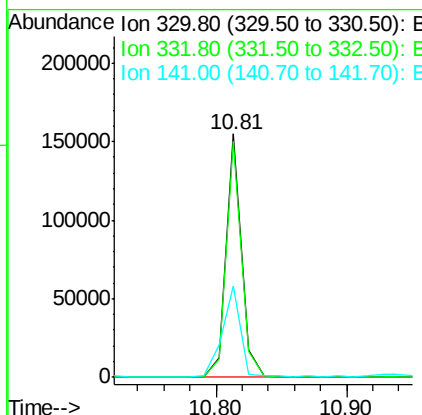
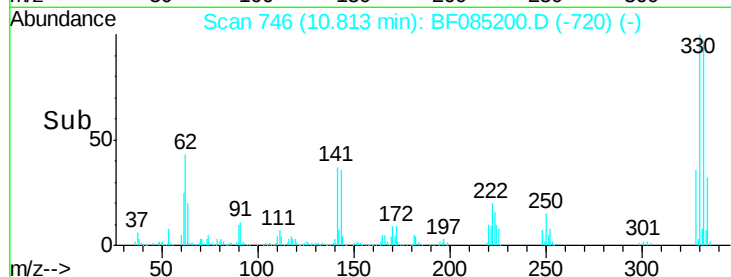
Instrument :  
 BNA\_F  
 ClientSampleId :  
 BT-C3(1)3W-20160301



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 128018 |       |       |
| 332     | 96.6  | 77.1   | 115.7 |       |
| 141     | 43.3  | 35.0   | 52.6  |       |

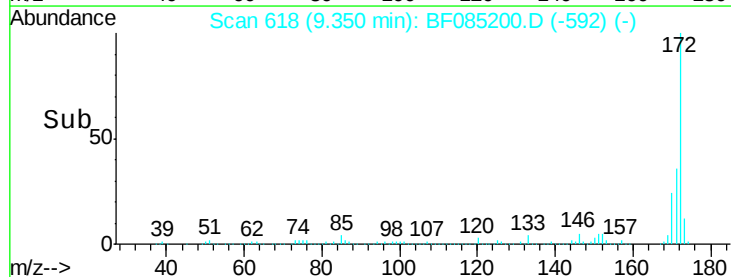
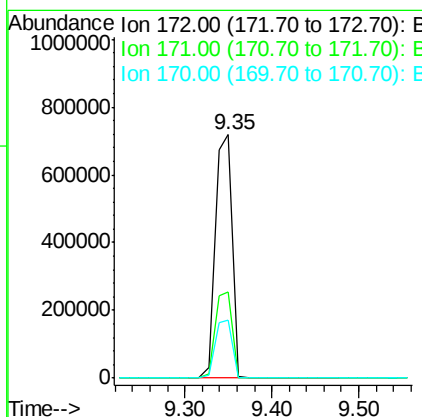
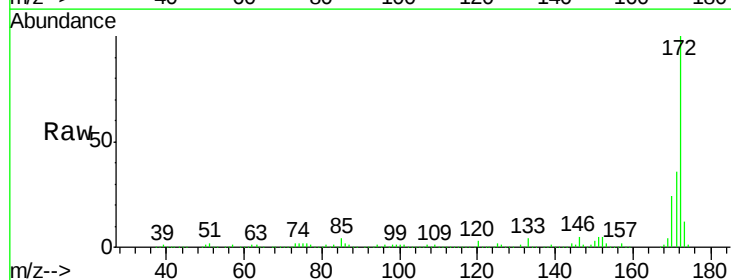
Manual Integrations  
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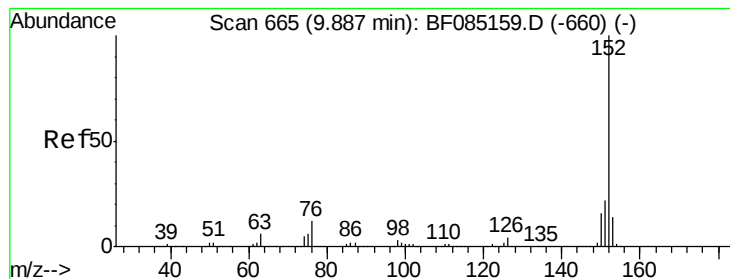
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#44  
 2-Fluorobiphenyl  
 Concen: 80.57 ng  
 RT: 9.35 min Scan# 618  
 Delta R.T. 0.00 min  
 Lab File: BF085200.D  
 Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 983605 |       |       |
| 171     | 35.5  | 29.3   | 43.9  |       |
| 170     | 23.7  | 20.0   | 30.0  |       |





#48

Acenaphthylene

Concen: 2.50 ng

RT: 9.89 min Scan# 665

Delta R.T. 0.00 min

Lab File: BF085200.D

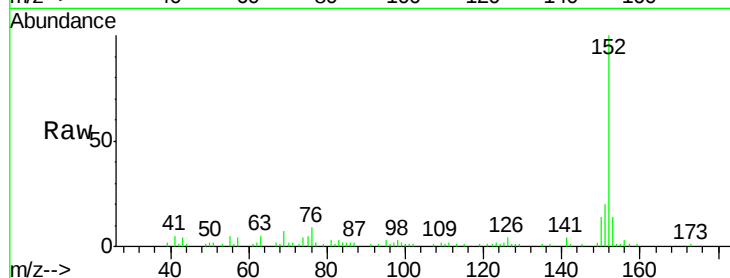
Acq: 4 Mar 2016 12:11

Instrument :

BNA\_F

ClientSampleId :

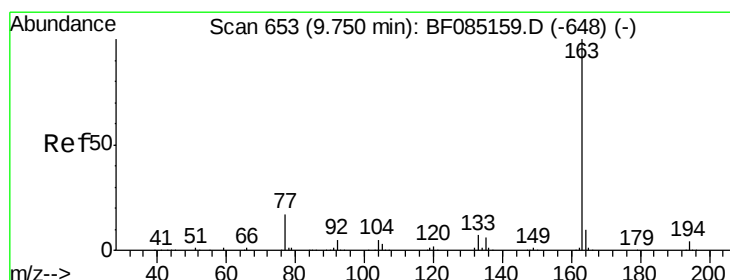
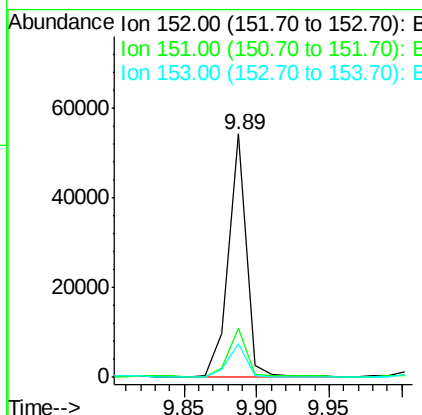
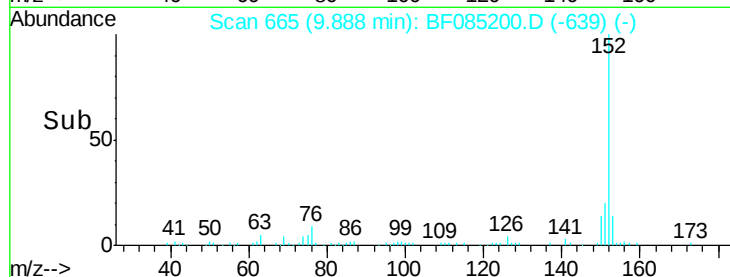
BT-C3(1)3W-20160301



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 47101 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.9  | 17.5  | 26.3  |
| 153       | 14.0  | 11.3  | 16.9  |

Manual Integrations  
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3/4/2016 4:37:00 PM



#49

Dimethylphthalate

Concen: 12.25 ng

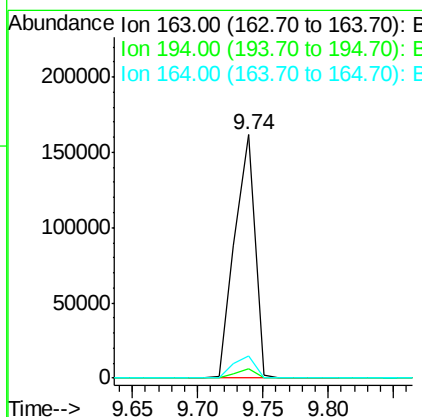
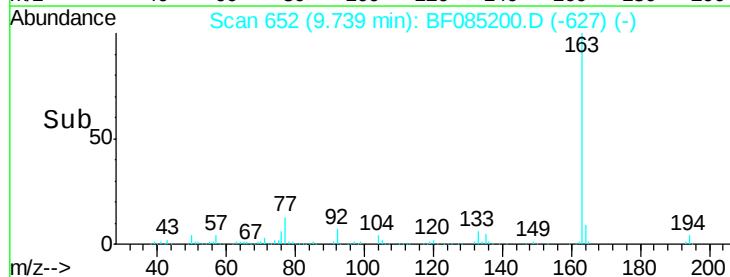
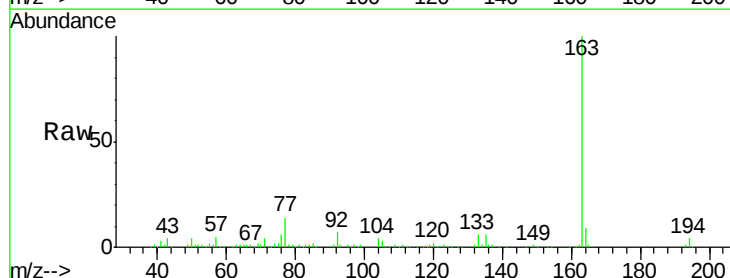
RT: 9.74 min Scan# 652

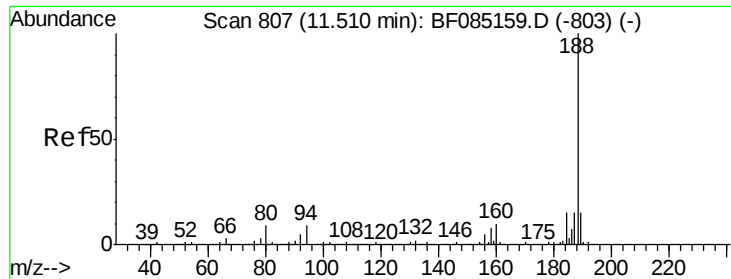
Delta R.T. -0.01 min

Lab File: BF085200.D

Acq: 4 Mar 2016 12:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 174567 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.0   | 3.1   | 4.7    |
| 164       | 9.3   | 8.2   | 12.4   |





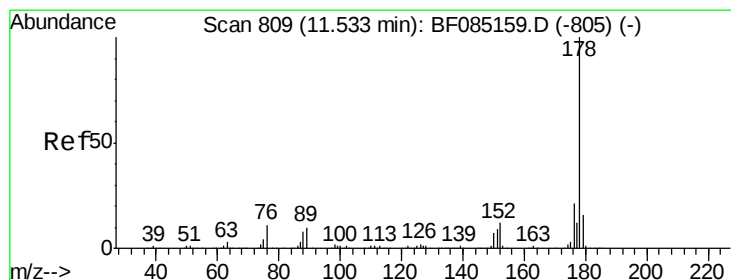
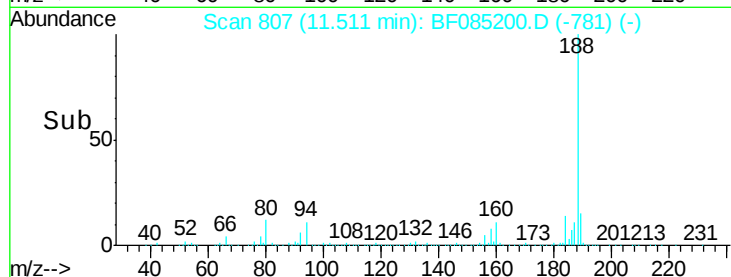
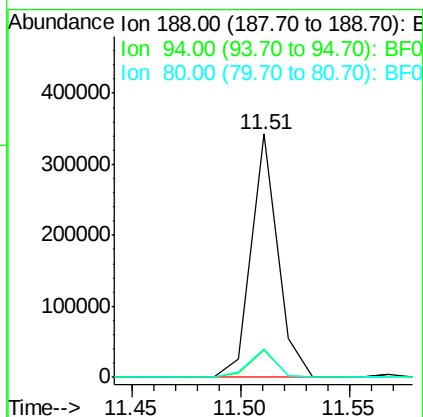
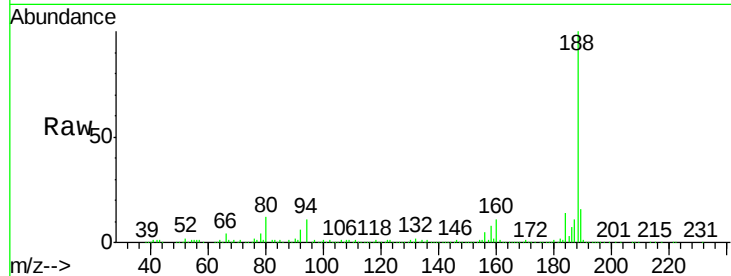
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.51 min Scan# 807  
Delta R.T. 0.00 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
BT-C3(1)3W-20160301

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 11.1  | 7.0        | 10.6# |
| 80      | 12.0  | 7.4        | 11.0# |

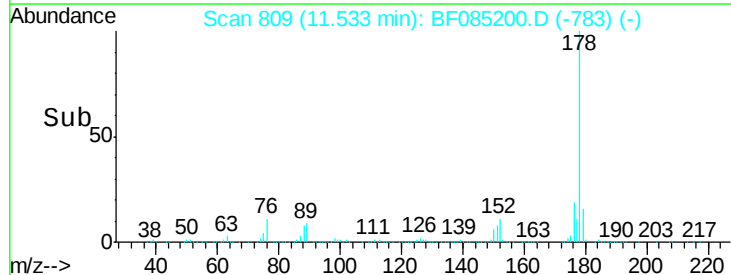
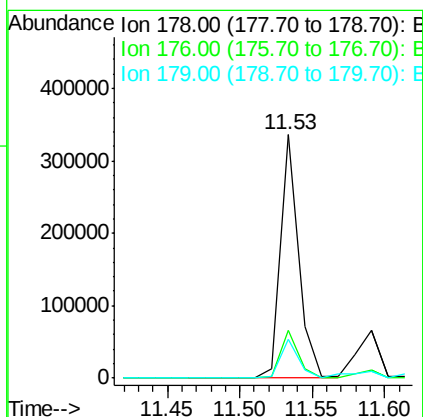
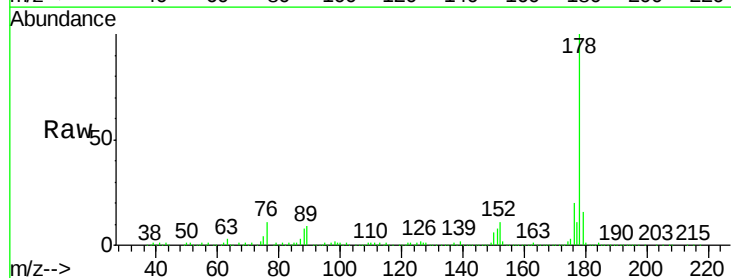
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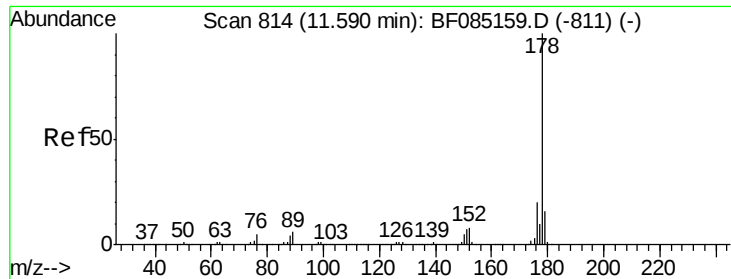
Sohil  
3/4/2016 4:37:00 PM



#70  
Phenanthrene  
Concen: 19.05 ng  
RT: 11.53 min Scan# 809  
Delta R.T. 0.00 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.6  | 16.8       | 25.2  |
| 179     | 15.8  | 13.1       | 19.7  |





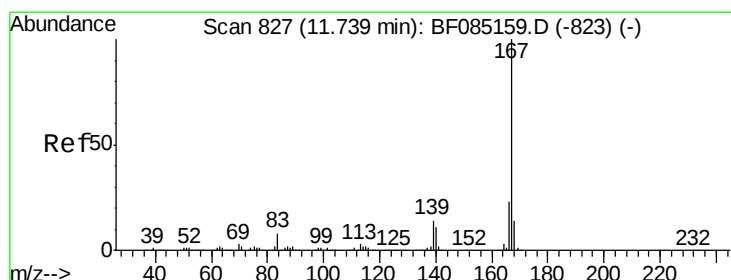
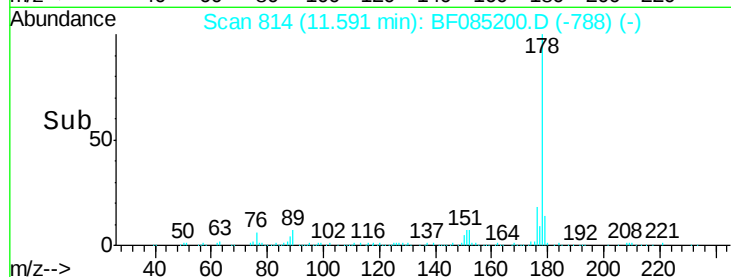
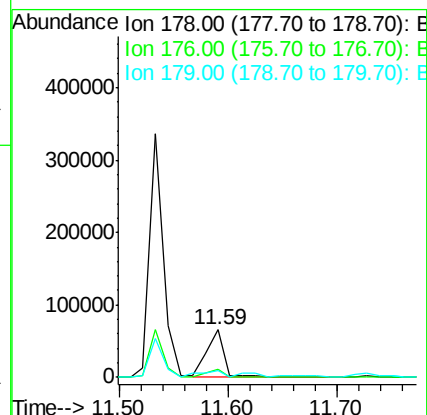
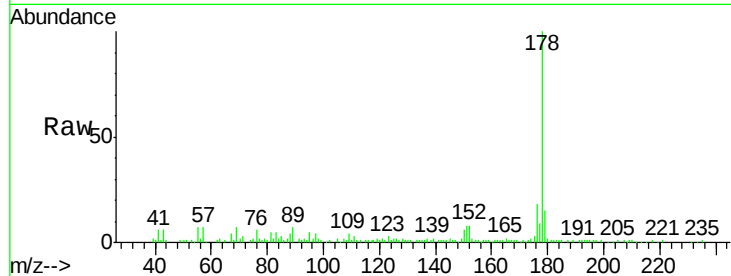
#71  
 Anthracene  
 Concen: 4.45 ng  
 RT: 11.59 min Scan# 814  
 Delta R.T. 0.00 min  
 Lab File: BF085200.D  
 Acq: 4 Mar 2016 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BT-C3(1)3W-20160301

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.9  | 23.9  |
| 179     | 15.0  | 12.5  | 18.7  |

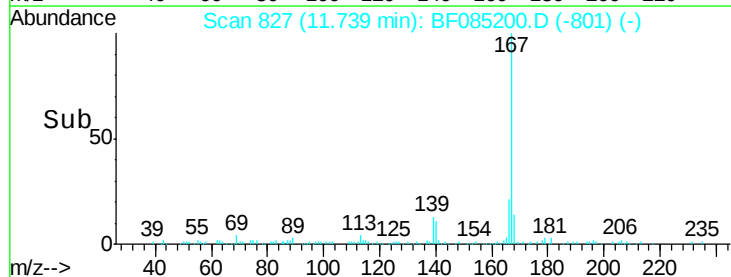
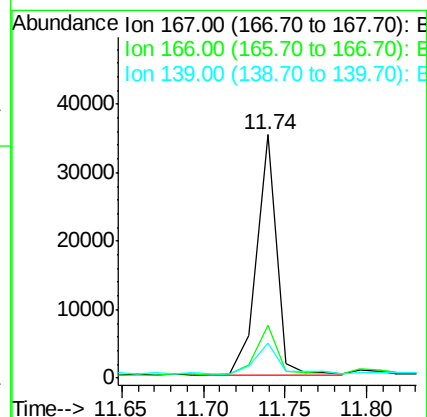
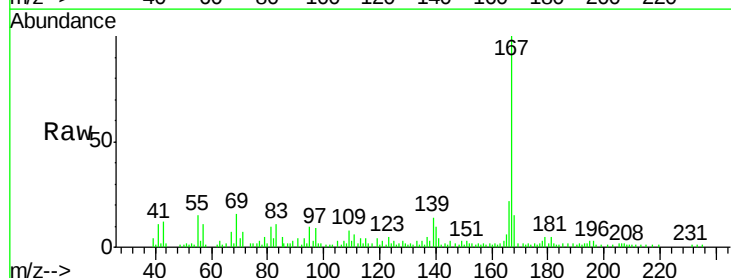
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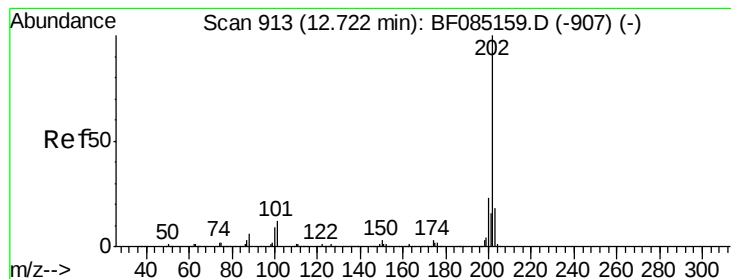
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#72  
 Carbazole  
 Concen: 2.11 ng  
 RT: 11.74 min Scan# 827  
 Delta R.T. 0.00 min  
 Lab File: BF085200.D  
 Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.8  | 18.2  | 27.2  |
| 139     | 14.5  | 11.4  | 17.0  |





#74

Fluoranthene

Concen: 27.90 ng

RT: 12.72 min Scan# 913

Delta R.T. 0.00 min

Lab File: BF085200.D

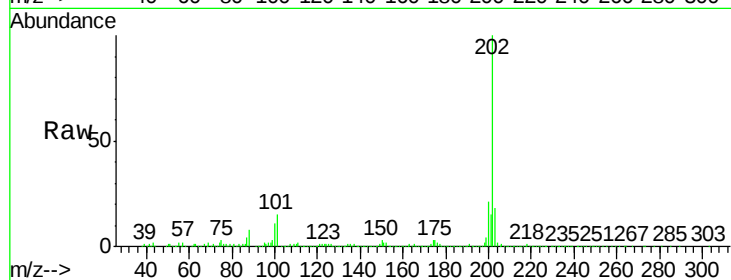
Acq: 4 Mar 2016 12:11

Instrument :

BNA\_F

ClientSampleId :

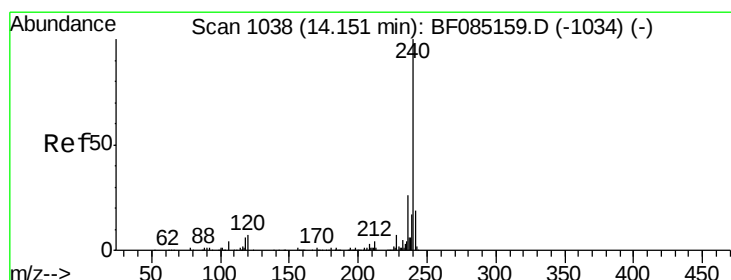
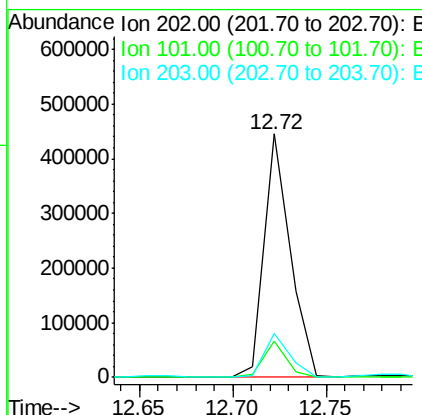
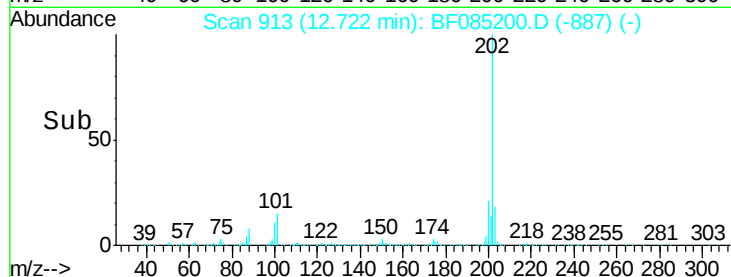
BT-C3(1)3W-20160301



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 426897 |       |       |
| 101     | 15.1  | 0.0    | 31.8  |       |
| 203     | 18.3  | 0.0    | 38.4  |       |

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#75

Chrysene-d12

Concen: 20.00 ng

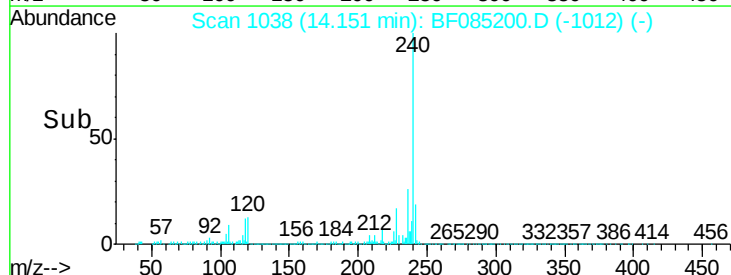
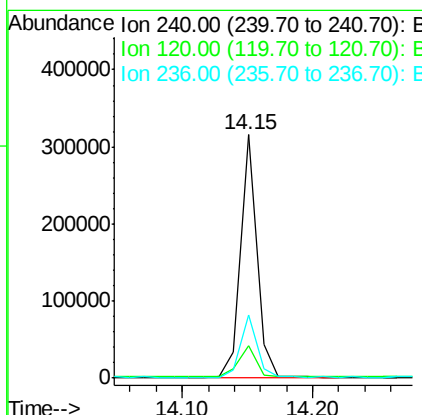
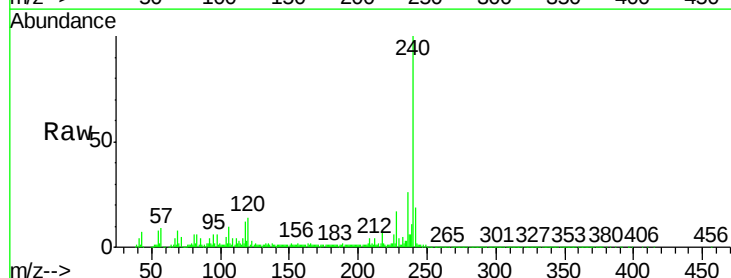
RT: 14.15 min Scan# 1038

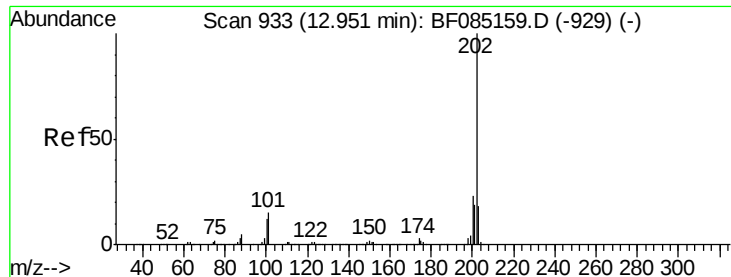
Delta R.T. 0.00 min

Lab File: BF085200.D

Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 270203 |       |       |
| 120     | 13.6  | 5.3    | 7.9#  |       |
| 236     | 26.1  | 20.7   | 31.1  |       |





#77

Pyrene

Concen: 19.33 ng

RT: 12.95 min Scan# 933

Delta R.T. 0.00 min

Lab File: BF085200.D

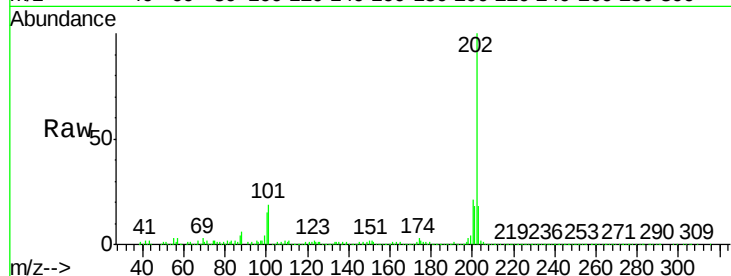
Acq: 4 Mar 2016 12:11

Instrument :

BNA\_F

ClientSampleId :

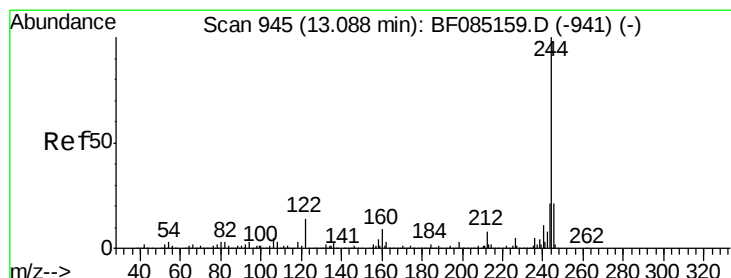
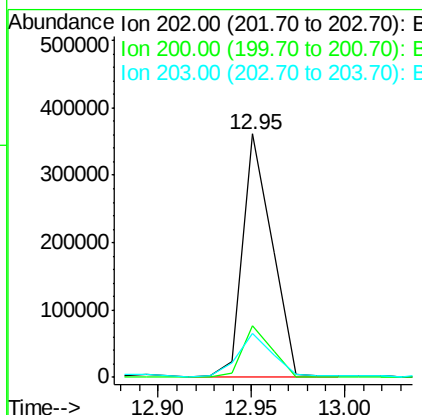
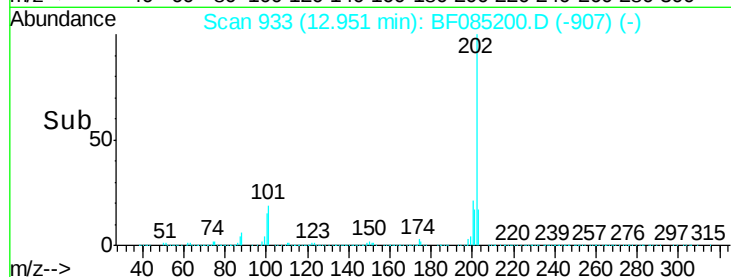
BT-C3(1)3W-20160301



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 393077 |       |       |
| 200     | 21.3  | 18.2   | 27.4  |       |
| 203     | 17.9  | 14.7   | 22.1  |       |

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#78

Terphenyl-d14

Concen: 52.51 ng

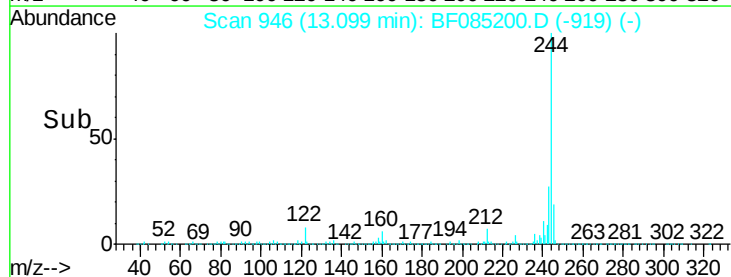
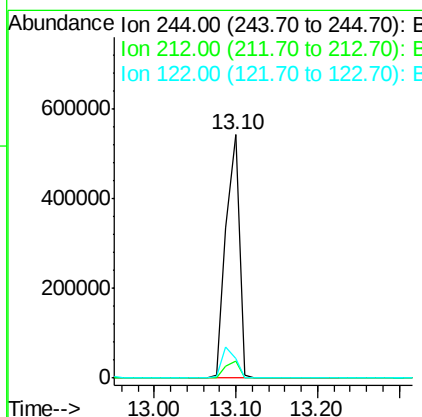
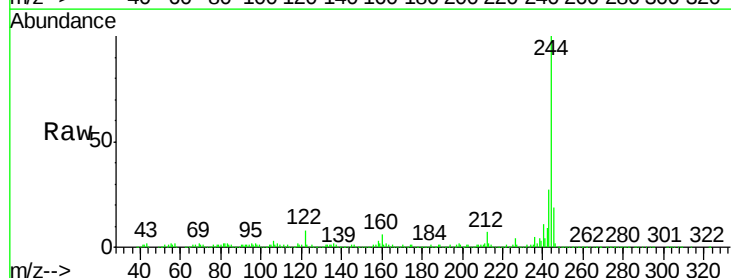
RT: 13.10 min Scan# 946

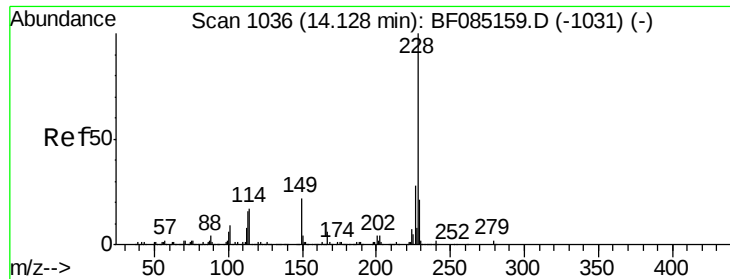
Delta R.T. 0.01 min

Lab File: BF085200.D

Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 611213 |       |       |
| 212     | 6.8   | 6.4    | 9.6   |       |
| 122     | 8.1   | 11.4   | 17.2  |       |





#80

Benzo(a)anthracene

Concen: 14.47 ng

RT: 14.14 min Scan# 1037

Delta R.T. 0.01 min

Lab File: BF085200.D

Acq: 4 Mar 2016 12:11

Instrument :

BNA\_F

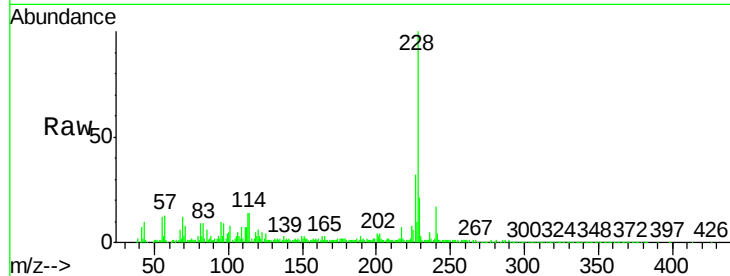
ClientSampleId :

BT-C3(1)3W-20160301

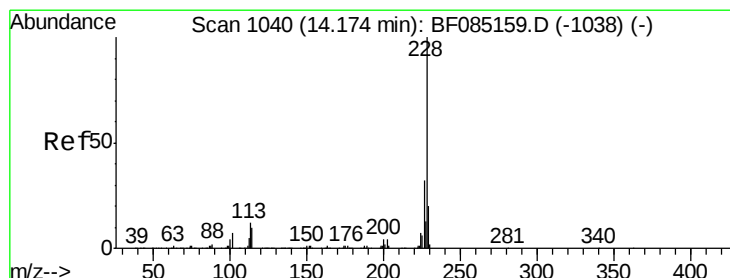
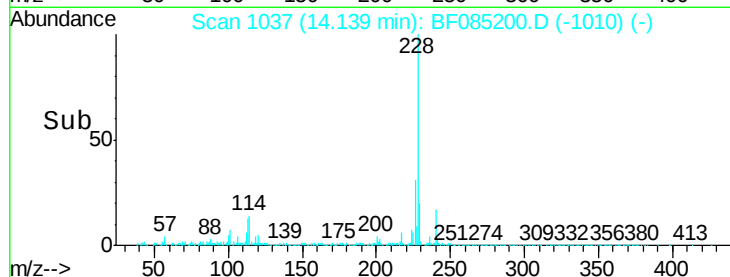
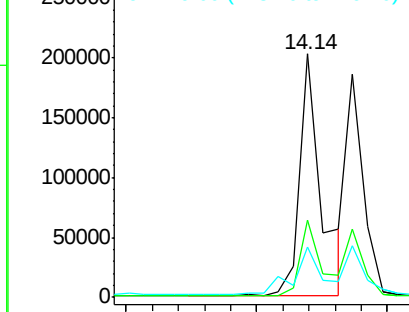
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 234010 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.6  | 22.8  | 34.2   |
| 229       | 20.8  | 16.6  | 24.8   |

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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



#82

Chrysene

Concen: 11.35 ng

RT: 14.17 min Scan# 1040

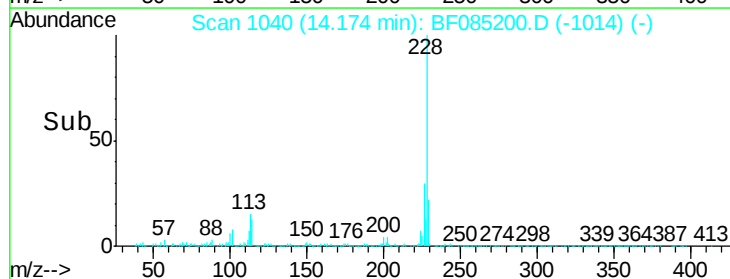
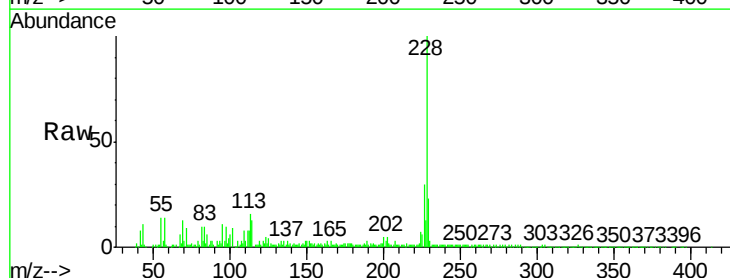
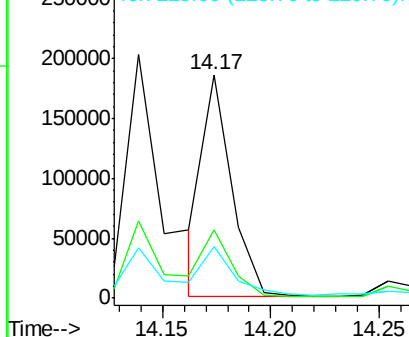
Delta R.T. 0.00 min

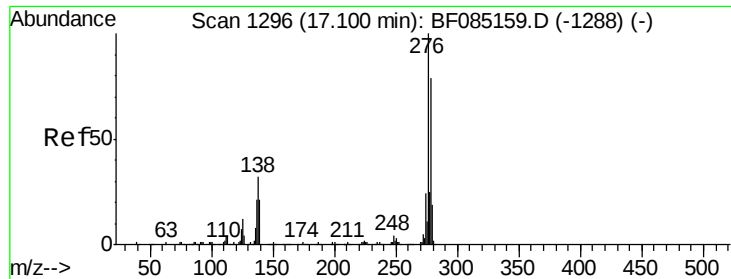
Lab File: BF085200.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 169534 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 25.2  | 37.8   |
| 229       | 23.0  | 16.0  | 24.0   |

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





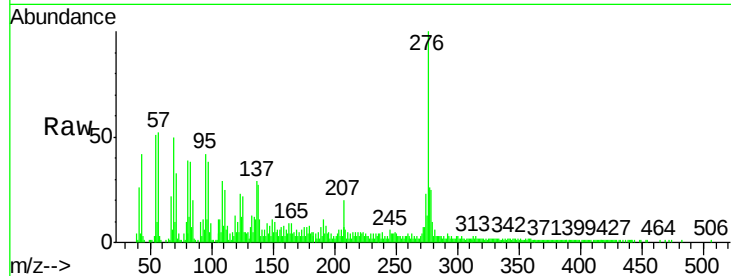
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 8.01 ng  
RT: 17.12 min Scan# 1298  
Delta R.T. 0.02 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
BT-C3(1)3W-20160301

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.7  | 26.4  | 39.6  |
| 277     | 26.8  | 20.2  | 30.2  |

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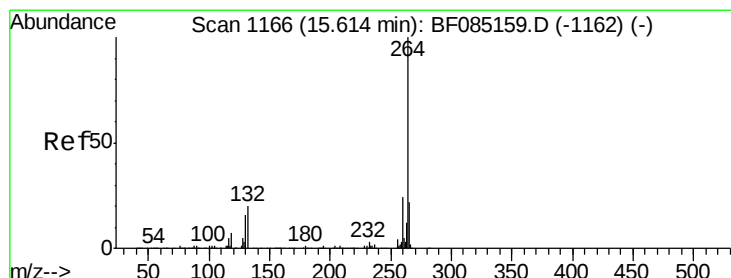
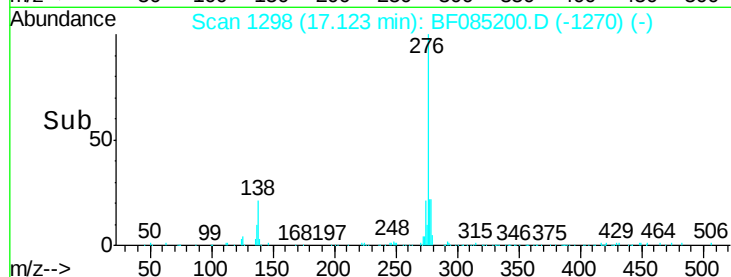
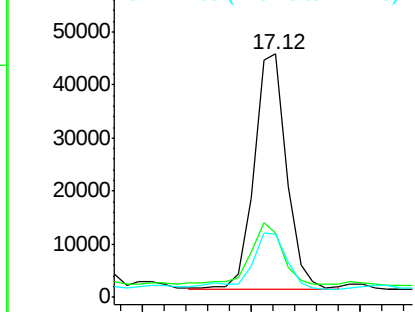


Abundance

Ion 276.00 (275.70 to 276.70): E

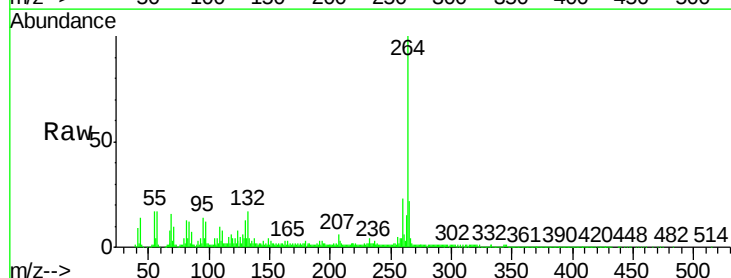
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.64 min Scan# 1168  
Delta R.T. 0.02 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 19.2  | 28.8  |
| 265     | 22.1  | 17.3  | 25.9  |

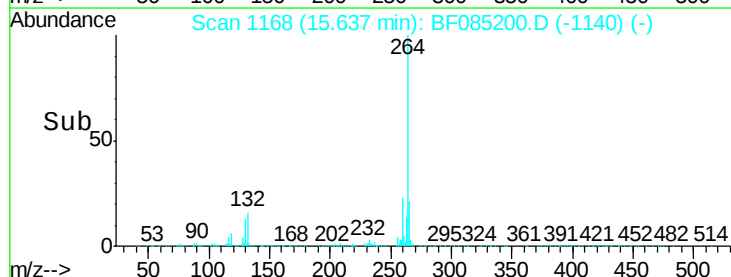
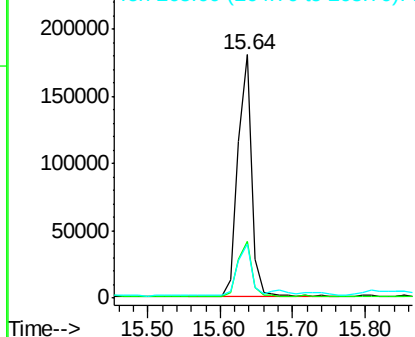


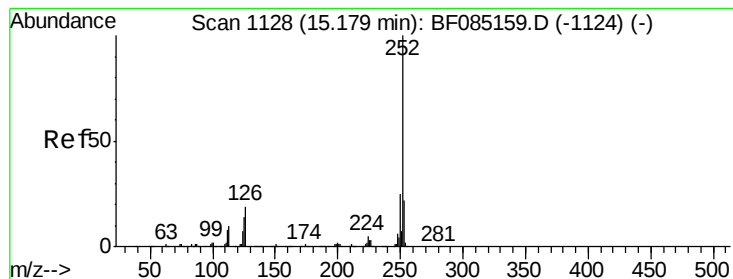
Abundance

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: 15.68 ng m

RT: 15.20 min Scan# 1130

Delta R.T. 0.02 min

Lab File: BF085200.D

Acq: 4 Mar 2016 12:11

Instrument :

BNA\_F

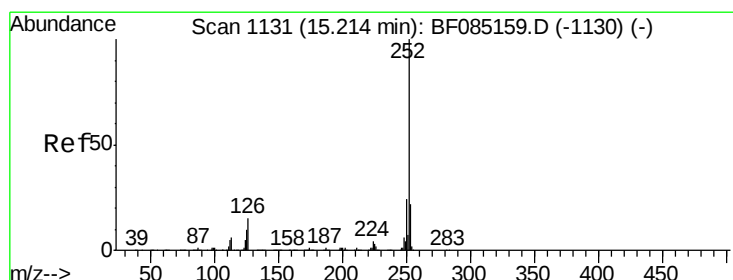
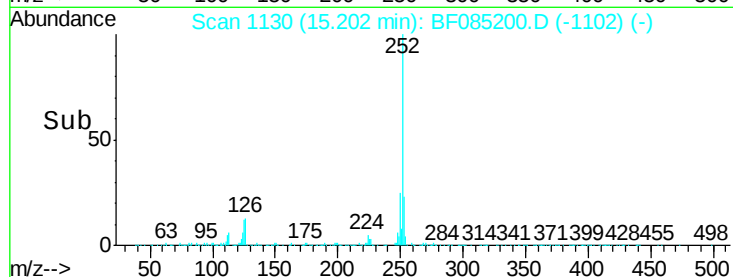
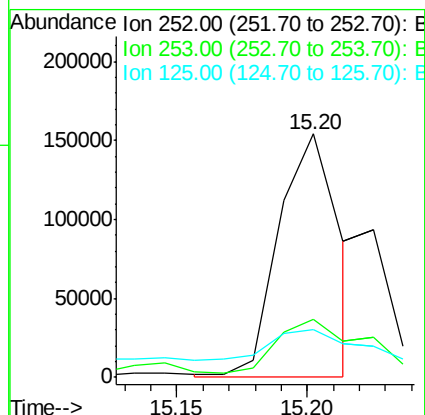
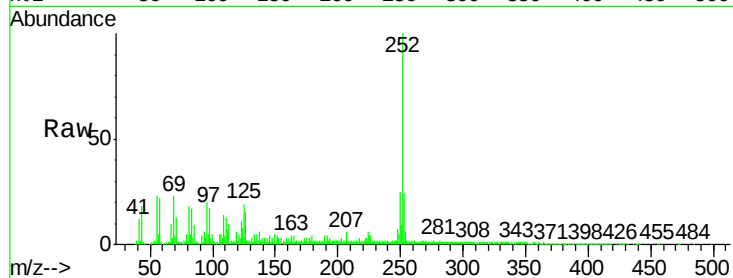
ClientSampleId :

BT-C3(1)3W-20160301

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 250285 |       |       |
| 253 | 24.0 |       | 17.8   | 26.6  |       |
| 125 | 19.5 |       | 11.3   | 16.9  |       |

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#88

Benzo(k)fluoranthene

Concen: 6.52 ng m

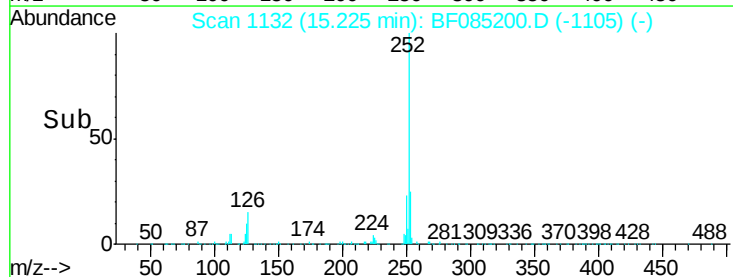
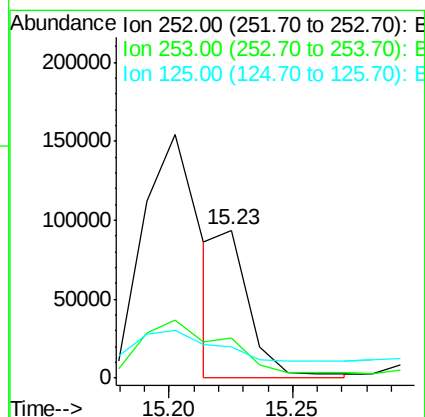
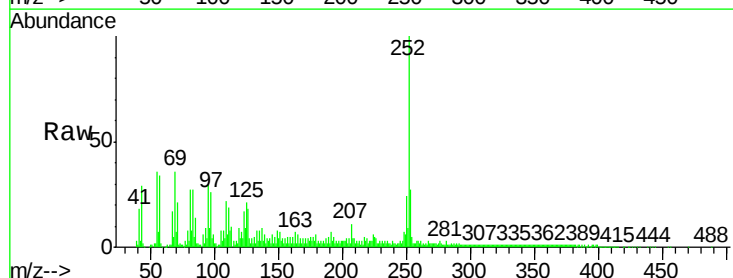
RT: 15.23 min Scan# 1132

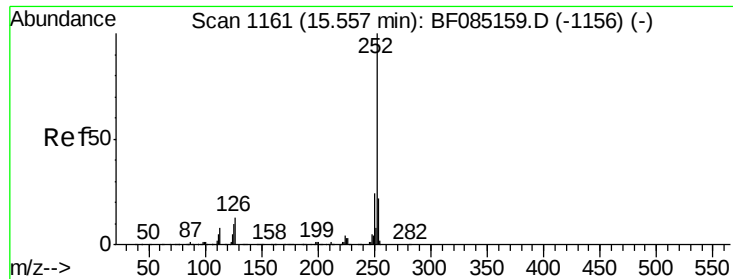
Delta R.T. 0.01 min

Lab File: BF085200.D

Acq: 4 Mar 2016 12:11

| Tgt | Ion  | Ratio | Resp  | Lower | Upper |
|-----|------|-------|-------|-------|-------|
| 252 | 100  |       | 83893 |       |       |
| 253 | 27.5 |       | 17.8  | 26.6  |       |
| 125 | 21.3 |       | 10.4  | 15.6  |       |





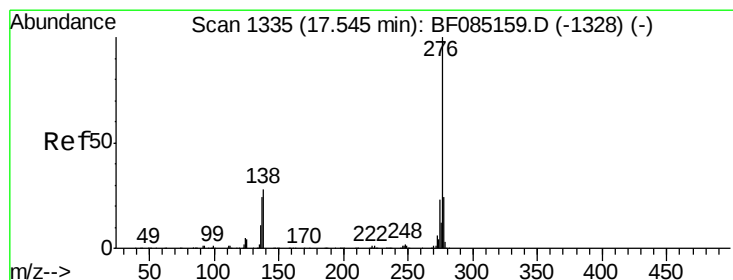
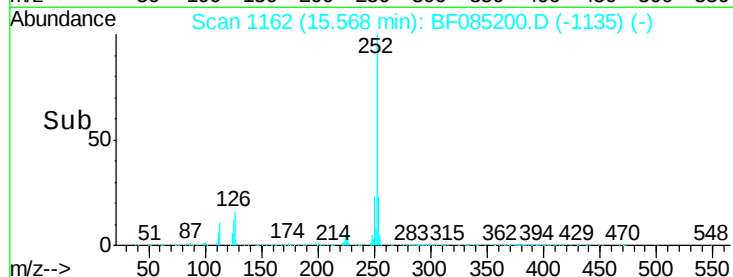
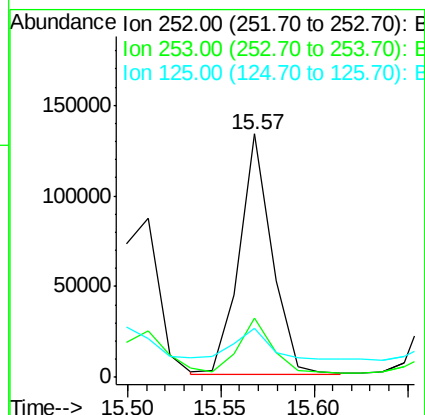
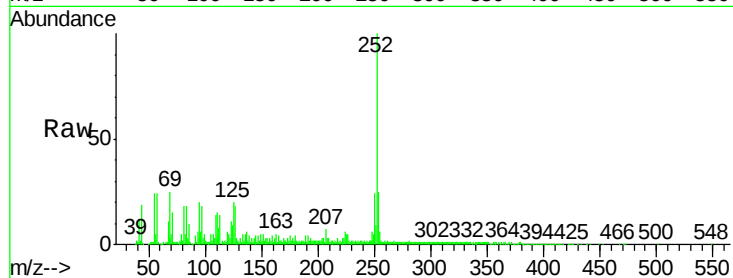
#89  
Benzo(a)pyrene  
Concen: 12.26 ng  
RT: 15.57 min Scan# 1162  
Delta R.T. 0.01 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

Instrument :  
BNA\_F  
ClientSampleId :  
BT-C3(1)3W-20160301

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.4  | 26.0  |
| 125     | 20.0  | 8.2   | 12.4  |

Manual Integrations  
APPROVED

Sohil  
3/4/2016 4:37:00 PM



#91  
Benzo(g,h,i)perylene  
Concen: 7.58 ng  
RT: 17.57 min Scan# 1337  
Delta R.T. 0.02 min  
Lab File: BF085200.D  
Acq: 4 Mar 2016 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.5  | 19.0  | 28.4  |
| 138     | 30.8  | 22.5  | 33.7  |

