

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092617\  
 Data File : BF098834.D  
 Acq On : 26 Sep 2017 16:08  
 Operator : SJ/JU  
 Sample : I5363-05 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-3-C-COMP

Manual Integrations  
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 9/27/2017 12:44:49 PM

Quant Time: Sep 27 01:47:30 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.91  | 152  | 153485   | 20.00 | ng    | -0.01     |
| 21) Naphthalene-d8          | 8.20  | 136  | 652235   | 20.00 | ng    | 0.00      |
| 38) Acenaphthene-d10        | 9.95  | 164  | 294752   | 20.00 | ng    | -0.01     |
| 63) Phenanthrene-d10        | 11.44 | 188  | 504760   | 20.00 | ng    | 0.00      |
| 75) Chrysene-d12            | 14.07 | 240  | 334779   | 20.00 | ng    | -0.01     |
| 86) Perylene-d12            | 15.57 | 264  | 318049   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 5) 2-Fluorophenol           | 5.52  | 112  | 146106   | 15.15 | ng    | -0.02     |
| 7) Phenol-d6                | 6.53  | 99   | 182576   | 15.35 | ng    | -0.02     |
| 23) Nitrobenzene-d5         | 7.47  | 82   | 104195   | 10.24 | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330  | 34480    | 14.30 | ng    | -0.02     |
| 44) 2-Fluorobiphenyl        | 9.27  | 172  | 221947   | 12.57 | ng    | -0.01     |
| 78) Terphenyl-d14           | 13.02 | 244  | 172221   | 11.70 | ng    | -0.02     |
| Target Compounds            |       |      |          |       |       |           |
| 70) Phenanthrene            | 11.46 | 178  | 70612    | 2.613 | ng    | Qvalue 97 |
| 74) Fluoranthene            | 12.65 | 202  | 99857    | 3.650 | ng    | 98        |
| 77) Pyrene                  | 12.88 | 202  | 89678    | 3.513 | ng    | 96        |
| 80) Benzo(a)anthracene      | 14.07 | 228  | 45619    | 2.250 | ng    | 94        |
| 82) Chrysene                | 14.10 | 228  | 49634    | 2.572 | ng    | 97        |
| 87) Benzo(b)fluoranthene    | 15.13 | 252  | 67599m   | 3.457 | ng    |           |
| 89) Benzo(a)pyrene          | 15.50 | 252  | 36246    | 2.019 | ng    | # 86      |

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

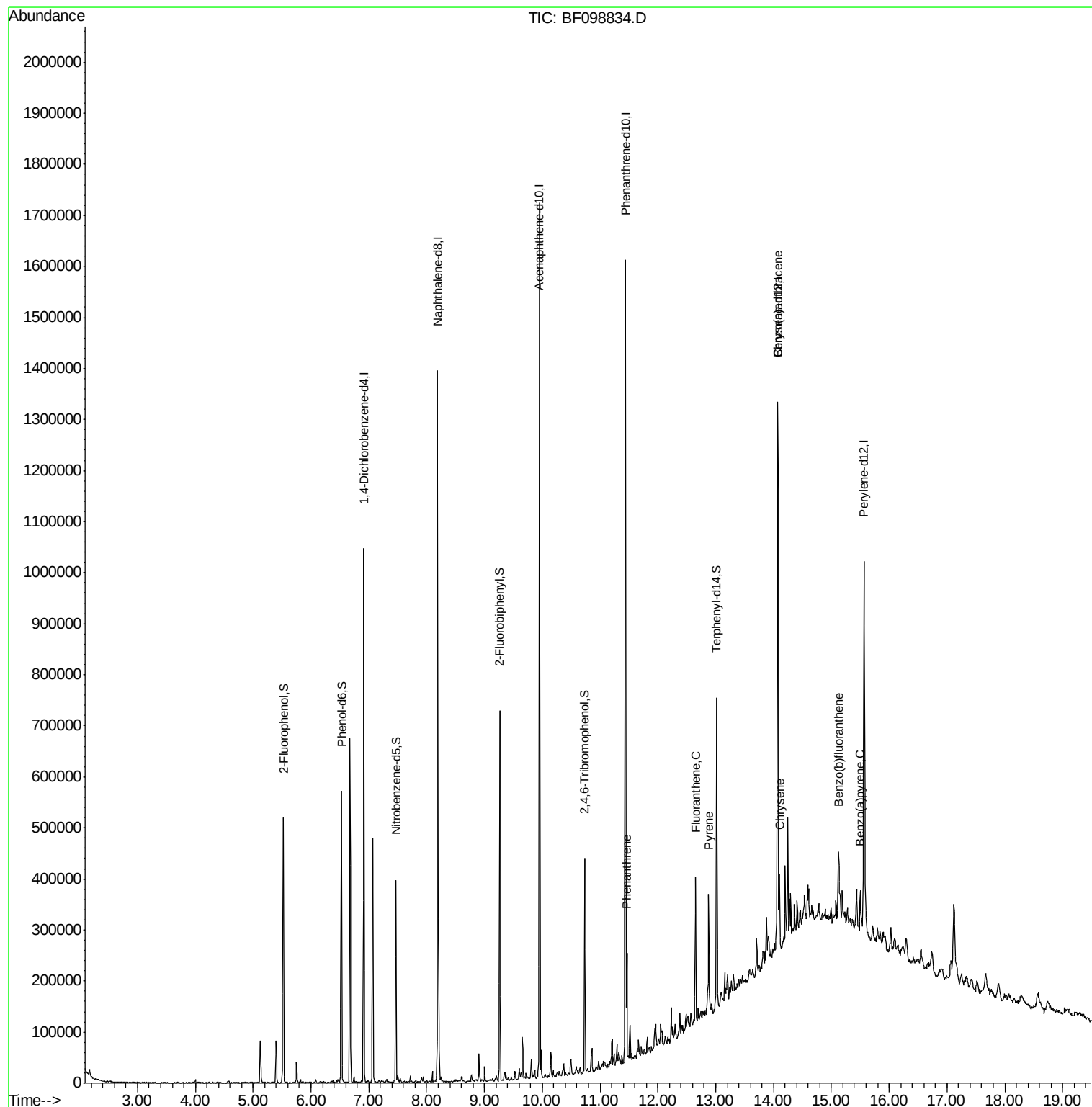
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092617\  
Data File : BF098834.D  
Acq On : 26 Sep 2017 16:08  
Operator : SJ/JU  
Sample : I5363-05 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SP-3-C-COMP

Quant Time: Sep 27 01:47:30 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 23 13:50:58 2017  
Response via : Initial Calibration

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#1

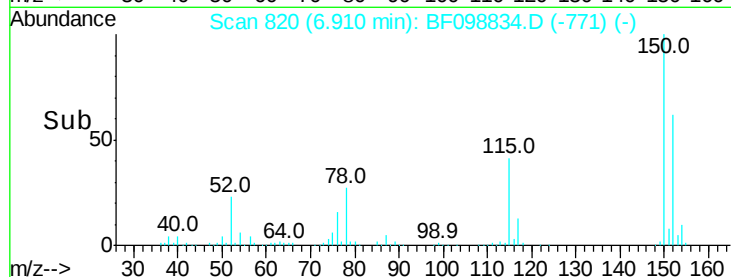
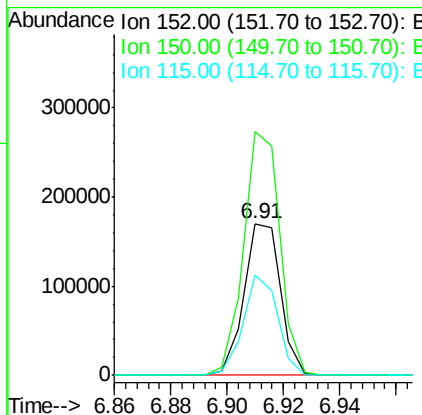
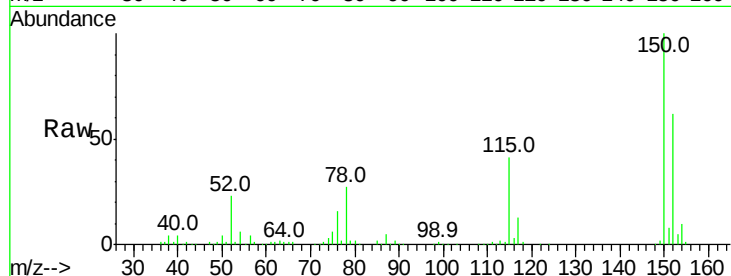
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.91 min Scan# 820  
 Delta R.T. -0.01 min  
 Lab File: BF098834.D  
 Acq: 26 Sep 2017 16:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-3-C-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.4 | 124.6 | 186.8 |
| 115     | 65.7  | 50.1  | 75.1  |

Manual Integrations  
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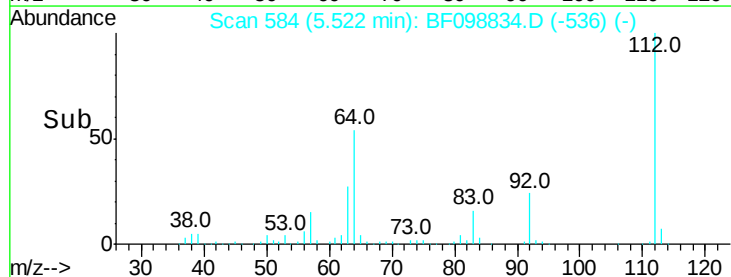
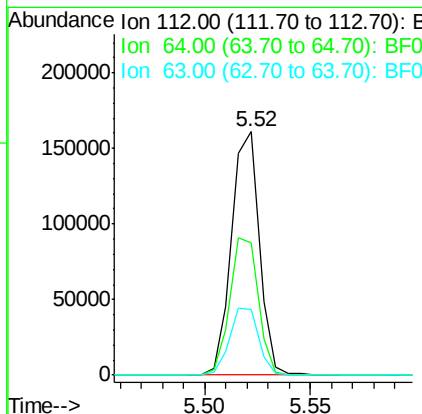
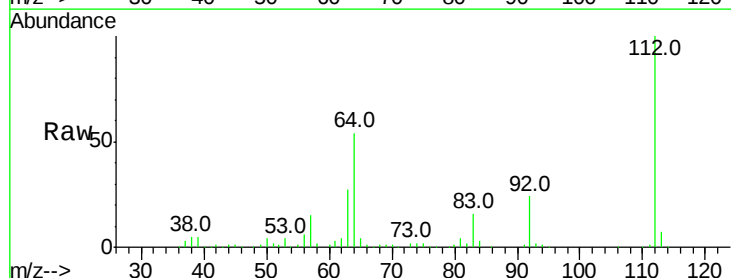
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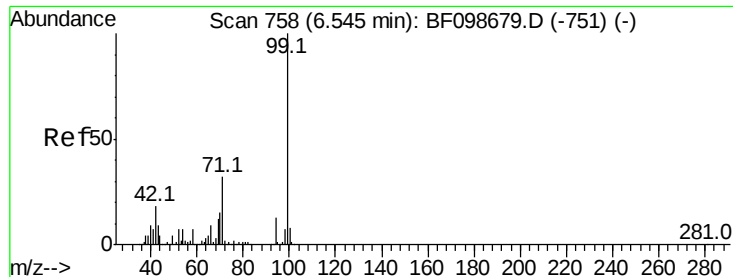


#5

2-Fluorophenol  
 Concen: 15.154 ng  
 RT: 5.52 min Scan# 584  
 Delta R.T. -0.02 min  
 Lab File: BF098834.D  
 Acq: 26 Sep 2017 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.3  | 47.9  | 71.9  |
| 63      | 27.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 15.350 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF098834.D

Acq: 26 Sep 2017 16:08

Instrument :

BNA\_F

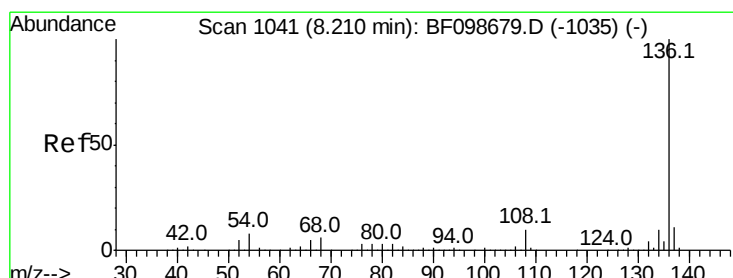
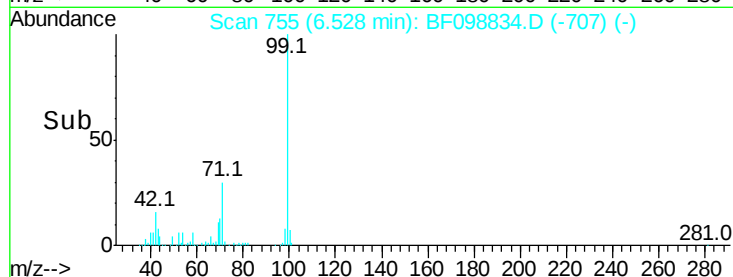
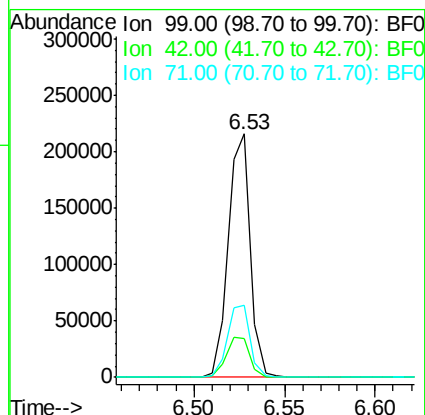
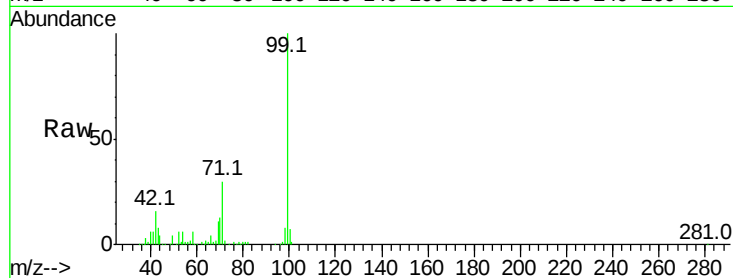
ClientSampleId :

SP-3-C-COMP

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 182576 |       |       |
| 42      | 16.2 | 14.5  | 21.7   |       |       |
| 71      | 29.9 | 25.4  | 38.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

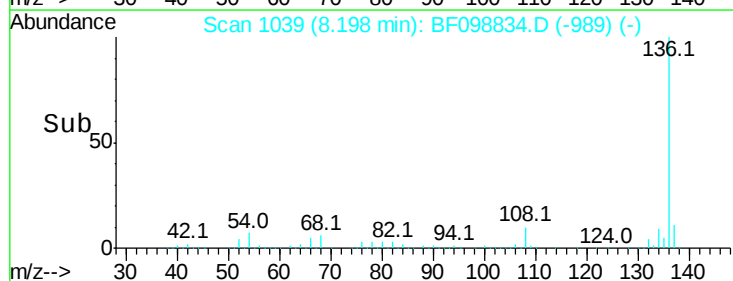
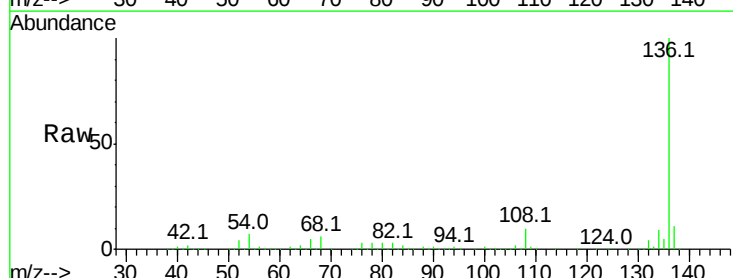
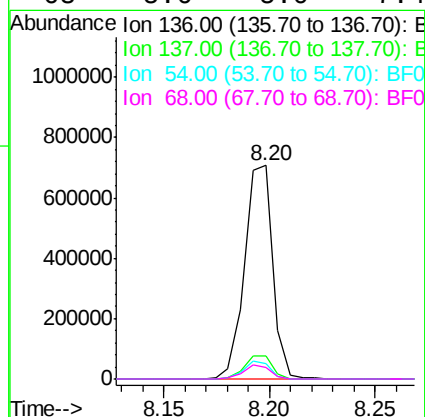
RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF098834.D

Acq: 26 Sep 2017 16:08

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 652235 |       |       |
| 137     | 10.6 | 8.9   | 13.3   |       |       |
| 54      | 7.0  | 6.6   | 9.8    |       |       |
| 68      | 5.6  | 5.0   | 7.4    |       |       |





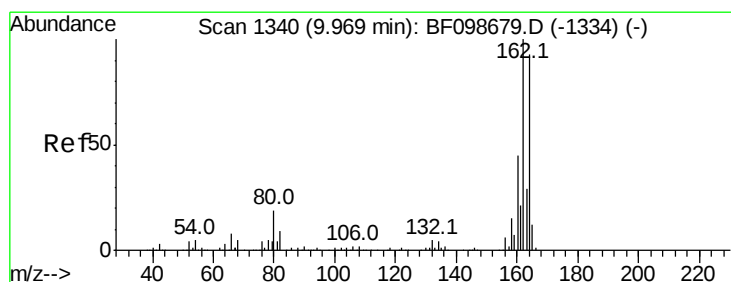
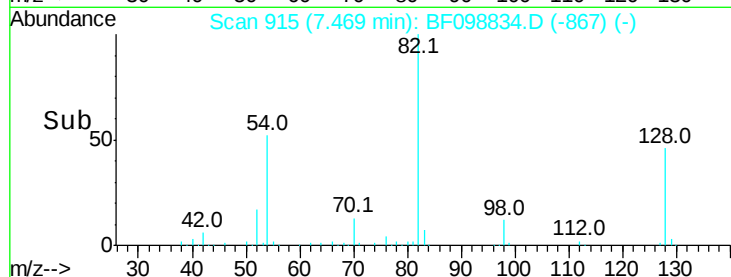
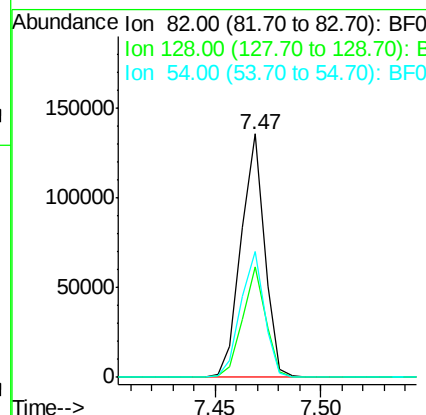
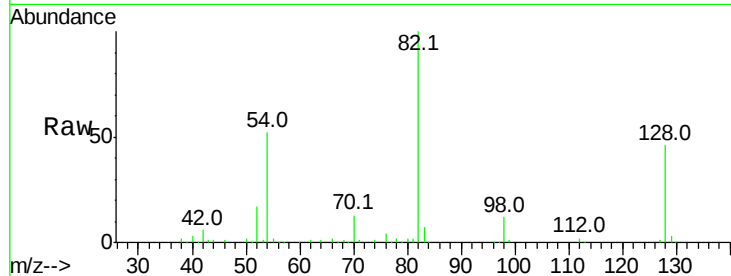
#23  
Nitrobenzene-d5  
Concen: 10.245 ng  
RT: 7.47 min Scan# 915  
Delta R.T. -0.02 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

Instrument :  
BNA\_F  
ClientSampleId :  
SP-3-C-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 45.5  | 36.1 | 54.1  |       |
| 54      | 51.7  | 41.4 | 62.2  |       |

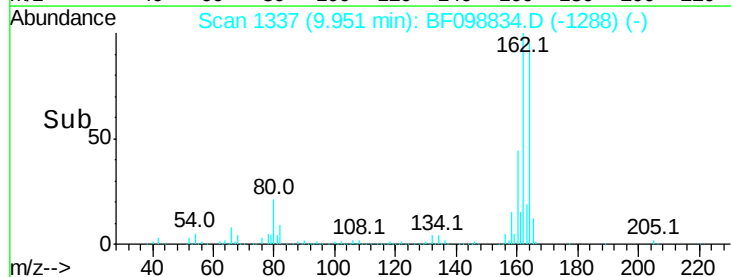
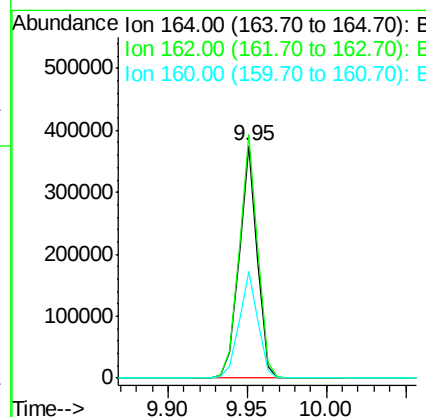
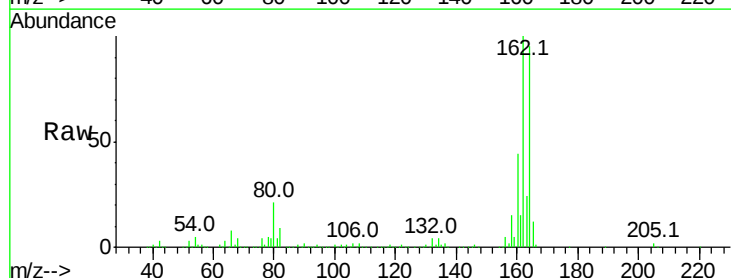
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.01 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.8 | 86.1 | 129.1 |       |
| 160     | 46.0  | 38.3 | 57.5  |       |





#41

2,4,6-Tribromophenol

Concen: 14.296 ng

RT: 10.73 min Scan# 1470

Delta R.T. -0.02 min

Lab File: BF098834.D

Acq: 26 Sep 2017 16:08

Instrument :

BNA\_F

ClientSampled :

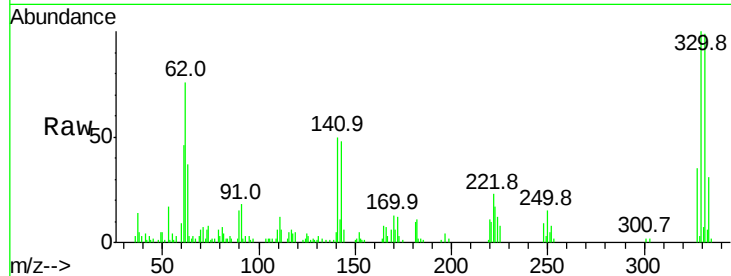
SP-3-C-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.6  | 77.0 | 115.6 |       |
| 141     | 48.6  | 29.9 | 44.9  |       |

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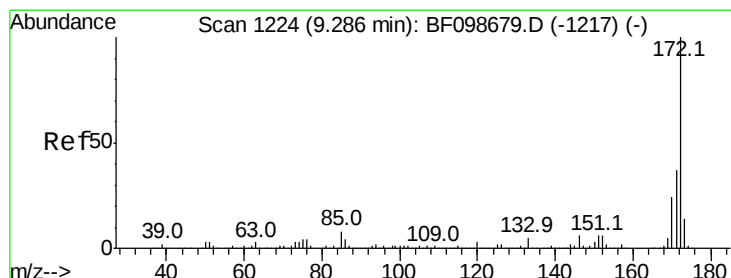
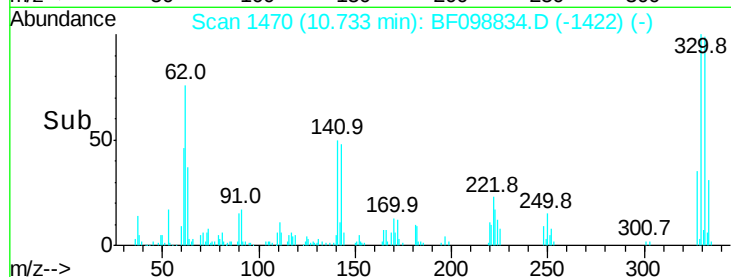
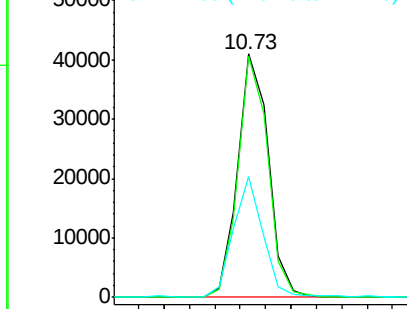
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Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 12.571 ng

RT: 9.27 min Scan# 1221

Delta R.T. -0.01 min

Lab File: BF098834.D

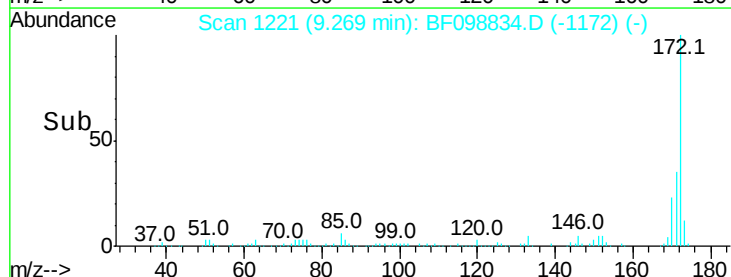
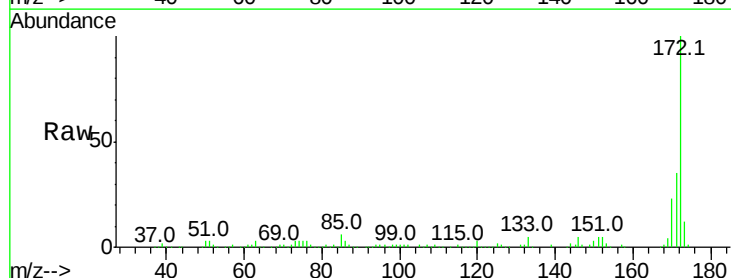
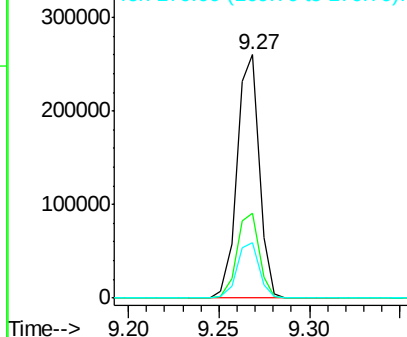
Acq: 26 Sep 2017 16:08

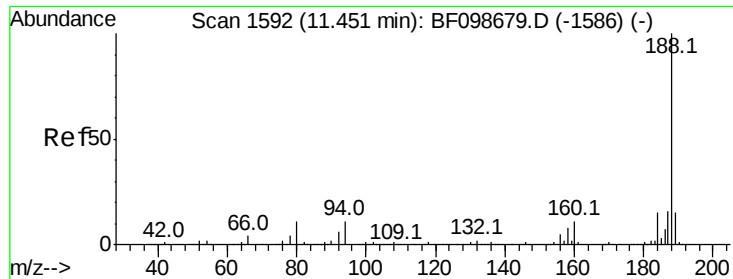
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 34.6  | 29.7 | 44.5  |       |
| 170     | 22.9  | 19.6 | 29.4  |       |

Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





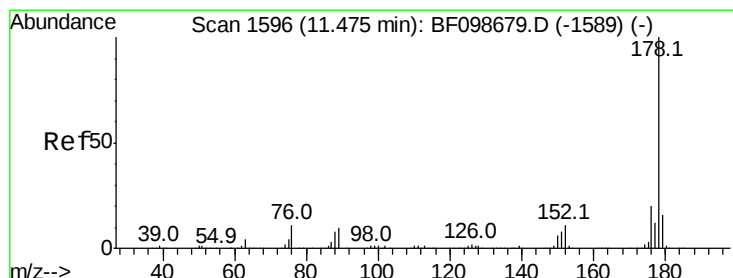
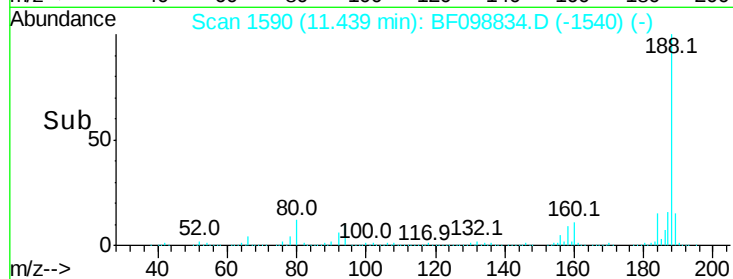
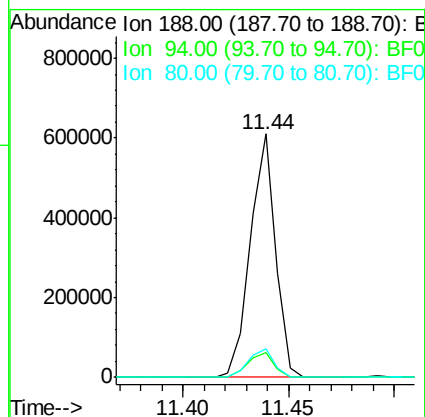
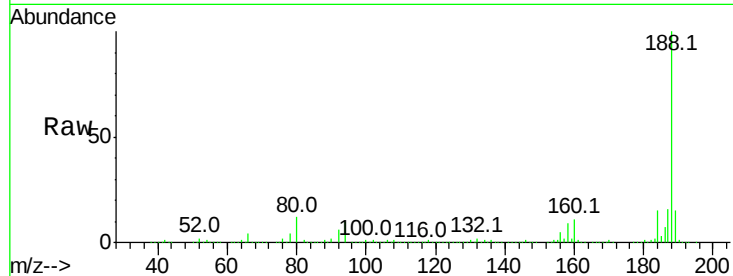
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.44 min Scan# 1590  
Delta R.T. -0.01 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

Instrument :  
BNA\_F  
ClientSampleId :  
SP-3-C-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.4  | 8.5        | 12.7  |
| 80      | 11.7  | 9.2        | 13.8  |

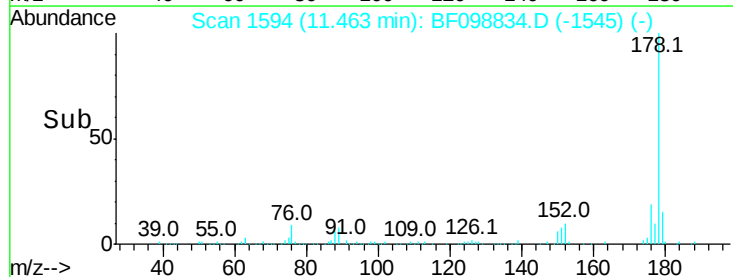
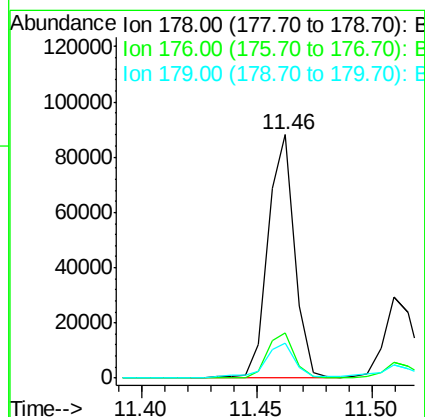
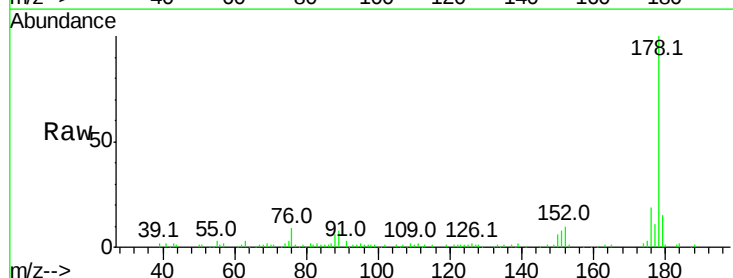
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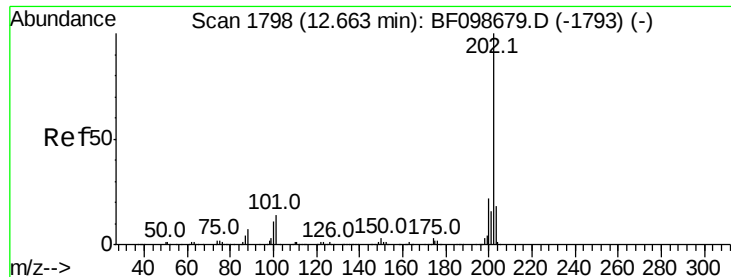
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#70  
Phenanthrene  
Concen: 2.613 ng  
RT: 11.46 min Scan# 1594  
Delta R.T. -0.01 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 18.6  | 15.8       | 23.8  |
| 179     | 14.6  | 13.0       | 19.6  |





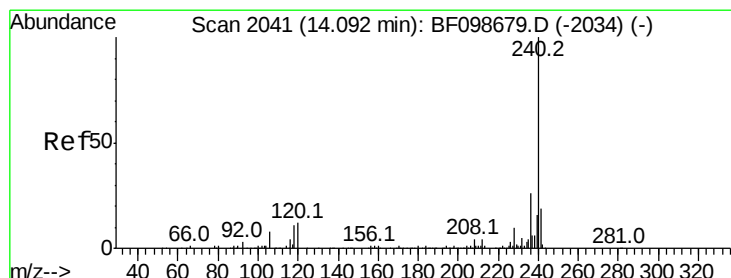
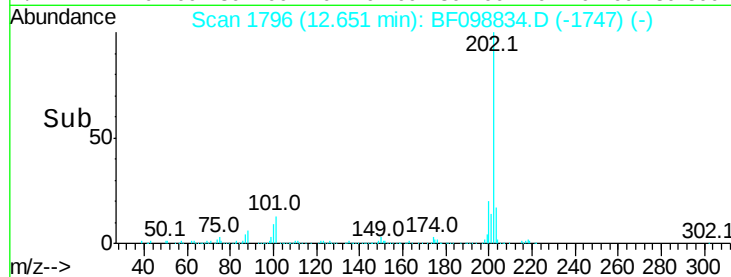
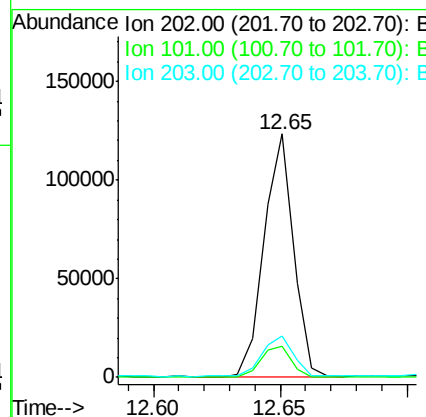
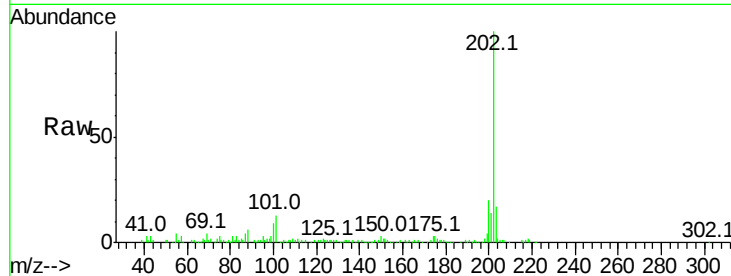
#74  
Fluoranthene  
Concen: 3.650 ng  
RT: 12.65 min Scan# 1796  
Delta R.T. -0.01 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

Instrument :  
BNA\_F  
ClientSampleId :  
SP-3-C-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.0  | 0.0        | 34.1  |
| 203     | 17.1  | 0.0        | 38.1  |

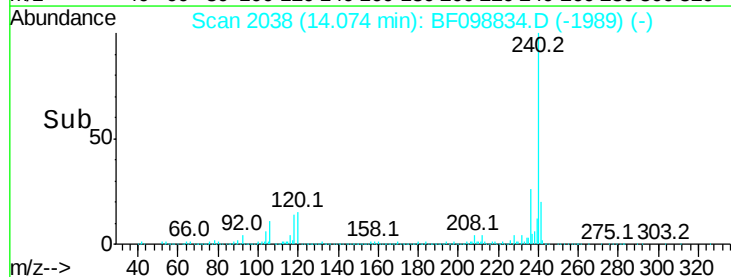
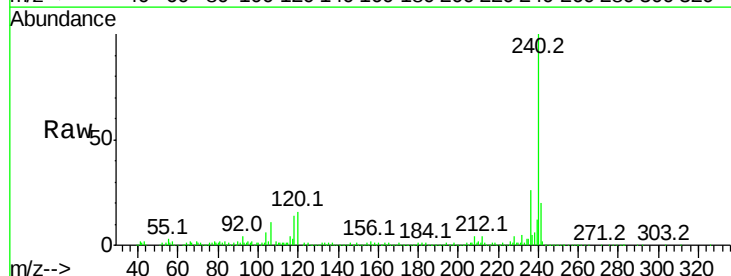
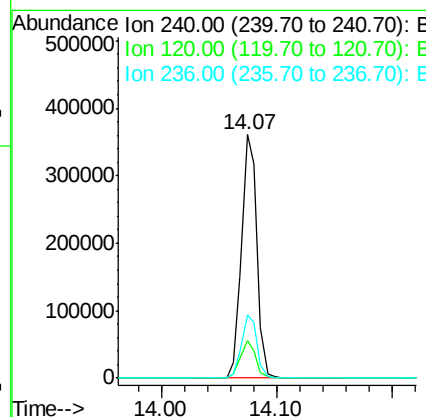
Manual Integrations  
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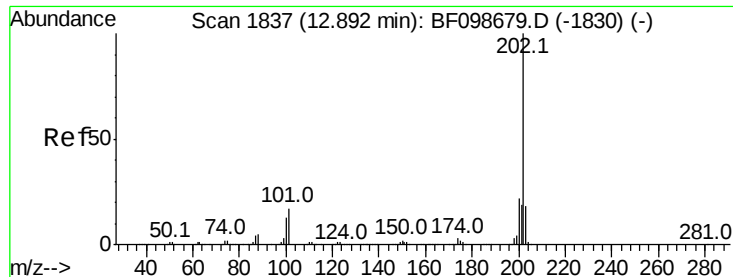
Sohil  
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#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.07 min Scan# 2038  
Delta R.T. -0.01 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 15.6  | 9.5        | 14.3# |
| 236     | 25.9  | 20.7       | 31.1  |





#77

Pvrene

Concen: 3.513 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF098834.D

Acq: 26 Sep 2017 16:08

Instrument :

BNA\_F

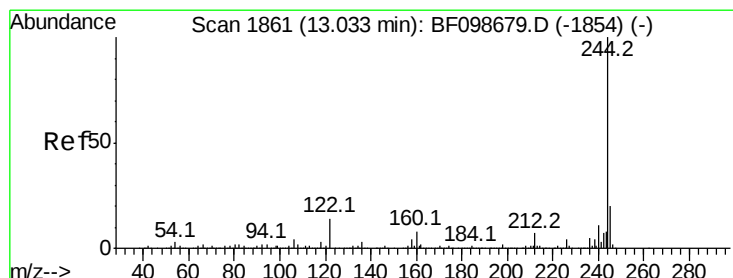
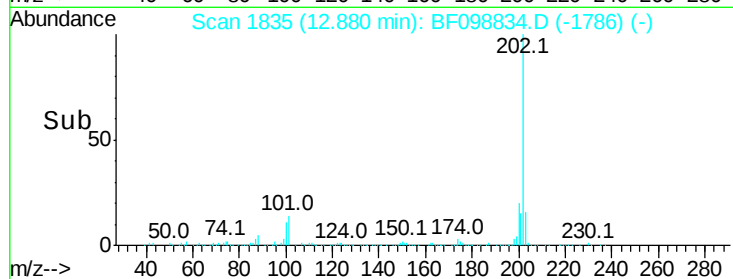
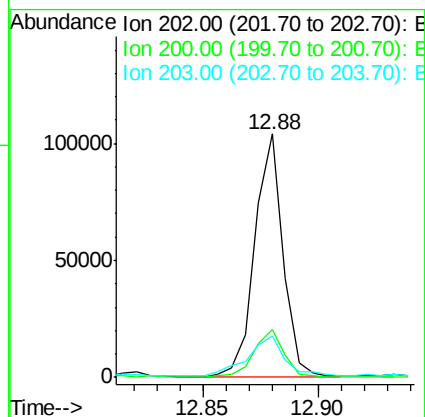
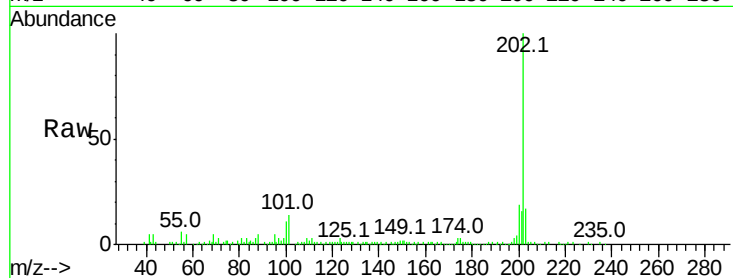
ClientSampled :

SP-3-C-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 89678 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 19.4  | 17.4  | 26.2  |
| 203       | 16.9  | 14.3  | 21.5  |

Manual Integrations  
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#78

Terphenyl-d14

Concen: 11.699 ng

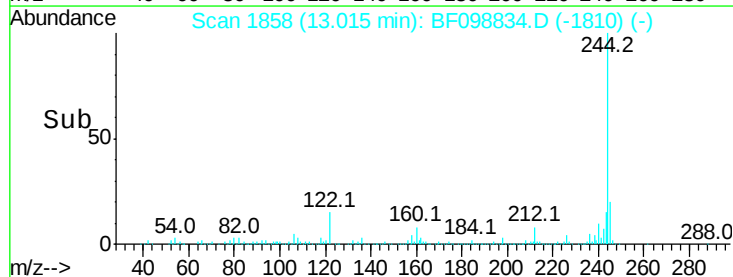
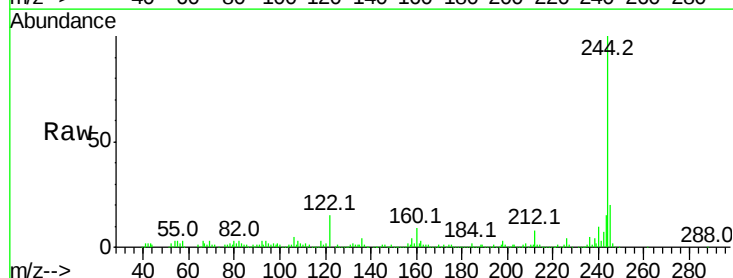
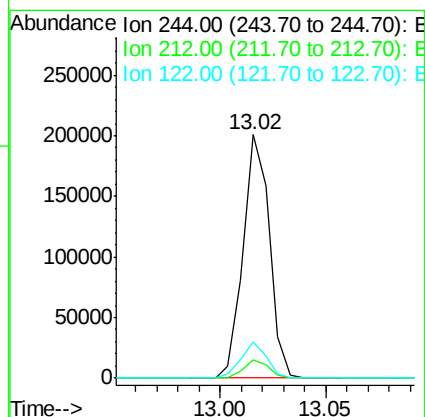
RT: 13.02 min Scan# 1858

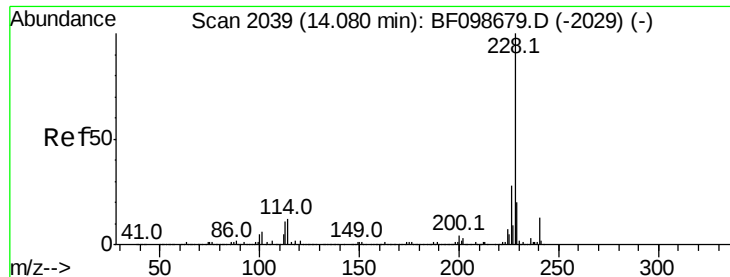
Delta R.T. -0.02 min

Lab File: BF098834.D

Acq: 26 Sep 2017 16:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 172221 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.5   | 5.4   | 8.0    |
| 122       | 14.9  | 11.0  | 16.4   |





#80

Benzo(a)anthracene

Concen: 2.250 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF098834.D

Acq: 26 Sep 2017 16:08

Instrument :

BNA\_F

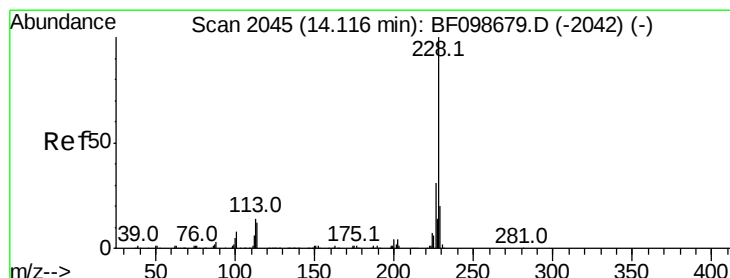
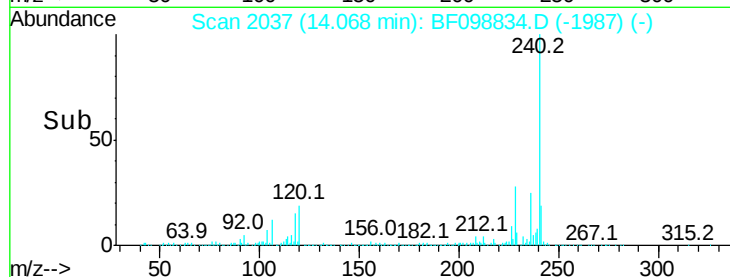
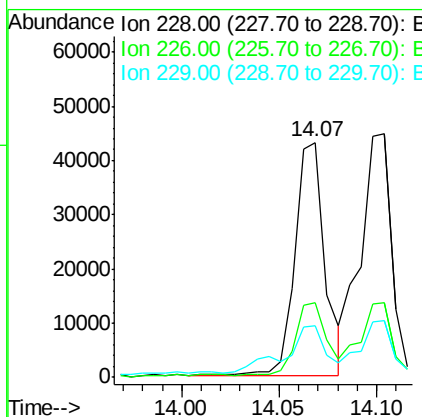
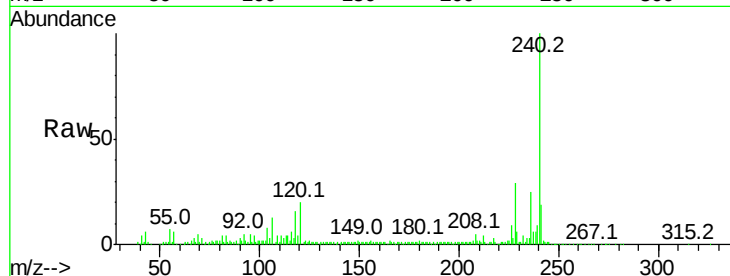
ClientSampleId :

SP-3-C-COMP

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 45619 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 31.7  | 22.6  | 33.8  |
| 229      | 21.9  | 15.8  | 23.6  |

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#82

Chrysene

Concen: 2.572 ng

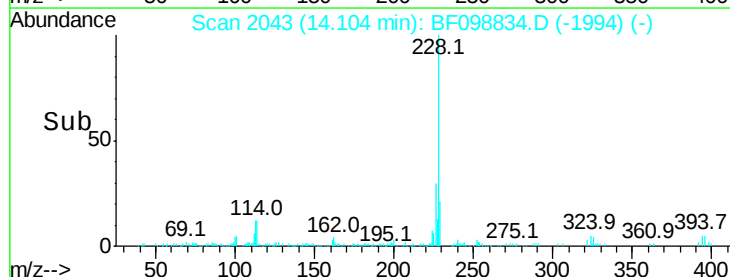
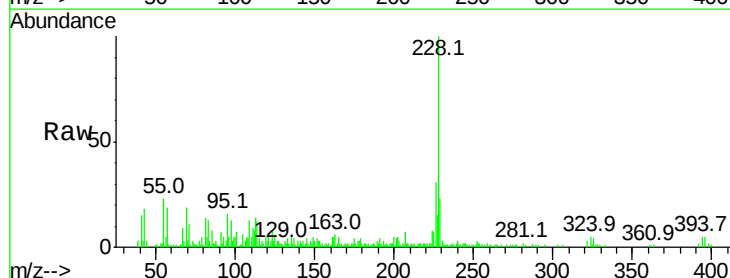
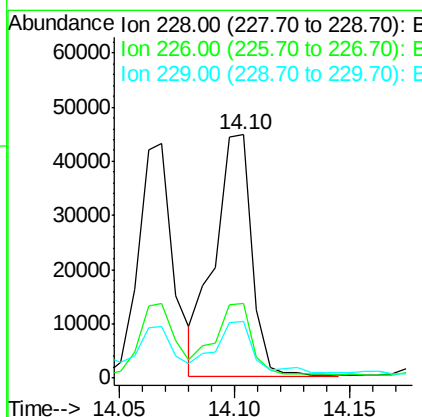
RT: 14.10 min Scan# 2043

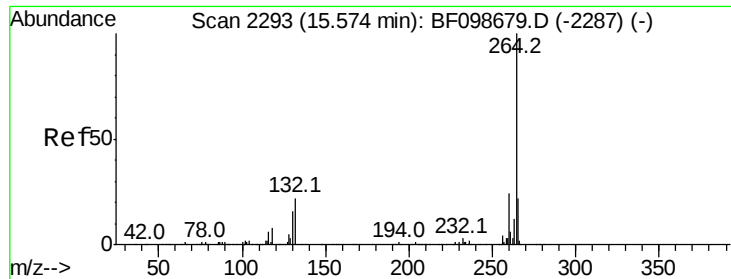
Delta R.T. -0.01 min

Lab File: BF098834.D

Acq: 26 Sep 2017 16:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 49634 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.6  | 25.0  | 37.6  |
| 229      | 23.1  | 16.2  | 24.4  |





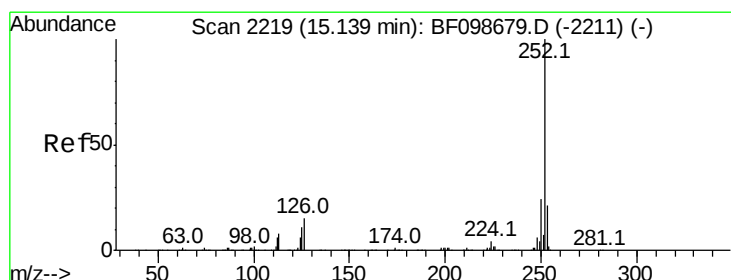
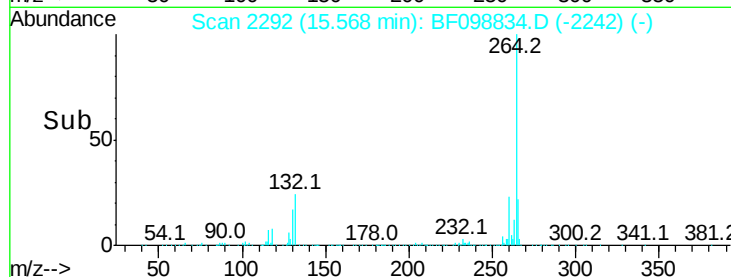
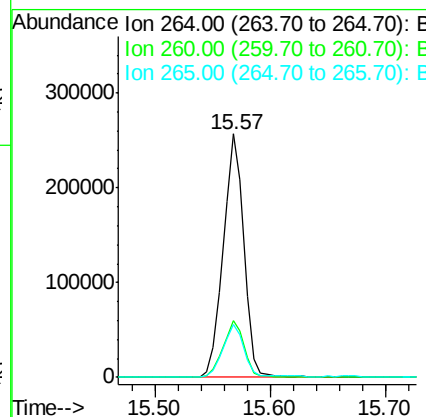
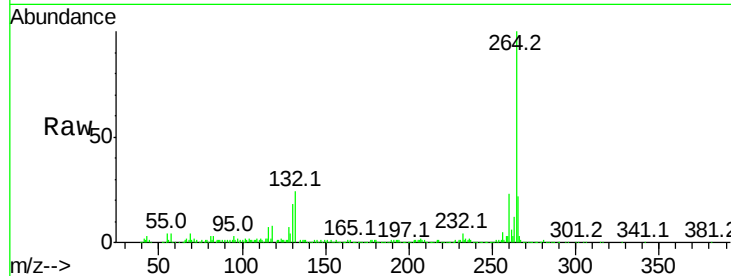
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.57 min Scan# 2292  
Delta R.T. -0.01 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

Instrument :  
BNA\_F  
ClientSampleId :  
SP-3-C-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.2  | 28.8  |
| 265     | 21.8  | 17.5  | 26.3  |

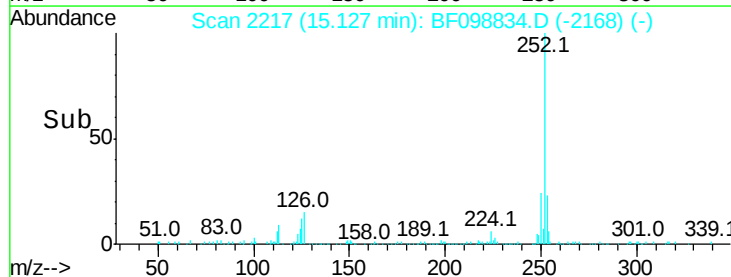
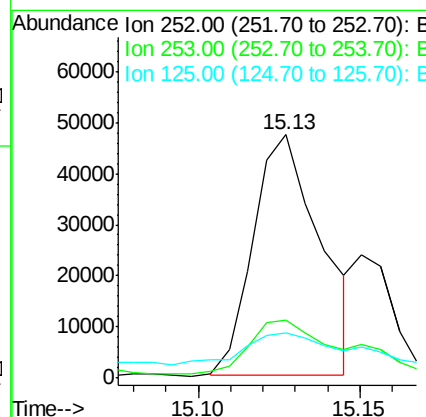
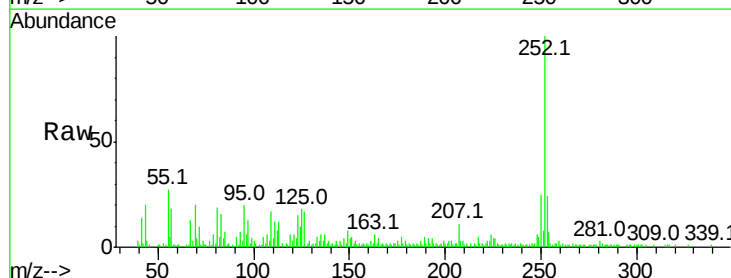
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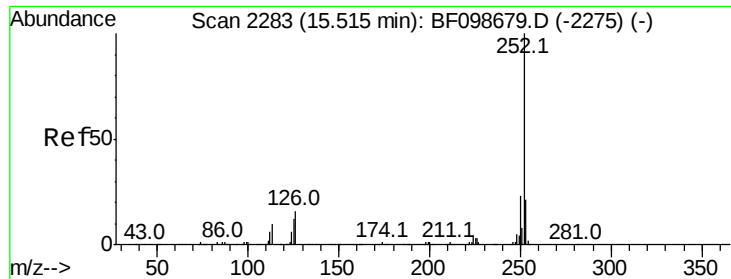
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#87  
Benzo(b)fluoranthene  
Concen: 3.457 ng m  
RT: 15.13 min Scan# 2217  
Delta R.T. -0.01 min  
Lab File: BF098834.D  
Acq: 26 Sep 2017 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.0  | 25.6  |
| 125     | 18.4  | 9.0   | 13.6# |





#89  
 Benzo(a)pyrene  
 Concen: 2.019 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. -0.02 min  
 Lab File: BF098834.D  
 Acq: 26 Sep 2017 16:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-3-C-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.1  | 25.7  |
| 125     | 24.4  | 9.8   | 14.6  |

Manual Integrations  
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