

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\  
 Data File : BF098132.D  
 Acq On : 30 Aug 2017 1:14  
 Operator : SJ/JU  
 Sample : I4981-01 5X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S14-WC-01

Manual Integrations  
 APPROVED

Sohil  
 8/30/2017 6:45:13 PM

Quant Time: Aug 30 07:29:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 129590   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.02  | 136  | 493324   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.77  | 164  | 191585   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.25 | 188  | 293172   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 13.89 | 240  | 270304   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.30 | 264  | 204076   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 234491   | 27.52 | ng    | -0.02    |
| 7) Phenol-d6                | 6.36  | 99   | 316090   | 27.31 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 187486   | 20.65 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.56 | 330  | 36038    | 21.68 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 280450   | 21.51 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.83 | 244  | 175997   | 13.58 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.49  | 163  | 60298    | 4.306 | ng    | 98       |
| 70) Phenanthrene            | 11.27 | 178  | 66550    | 4.260 | ng    | 100      |
| 74) Fluoranthene            | 12.46 | 202  | 117834   | 7.226 | ng    | 98       |
| 77) Pyrene                  | 12.69 | 202  | 114836   | 5.194 | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.87 | 228  | 63086    | 3.894 | ng    | 98       |
| 82) Chrysene                | 13.91 | 228  | 55541    | 3.446 | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.90 | 252  | 61208m   | 4.758 | ng    |          |
| 89) Benzo(a)pyrene          | 15.24 | 252  | 41494    | 3.644 | ng    | 97       |
| 91) Benzo(g,h,i)perylene    | 17.09 | 276  | 19936    | 2.061 | ng    | # 88     |

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

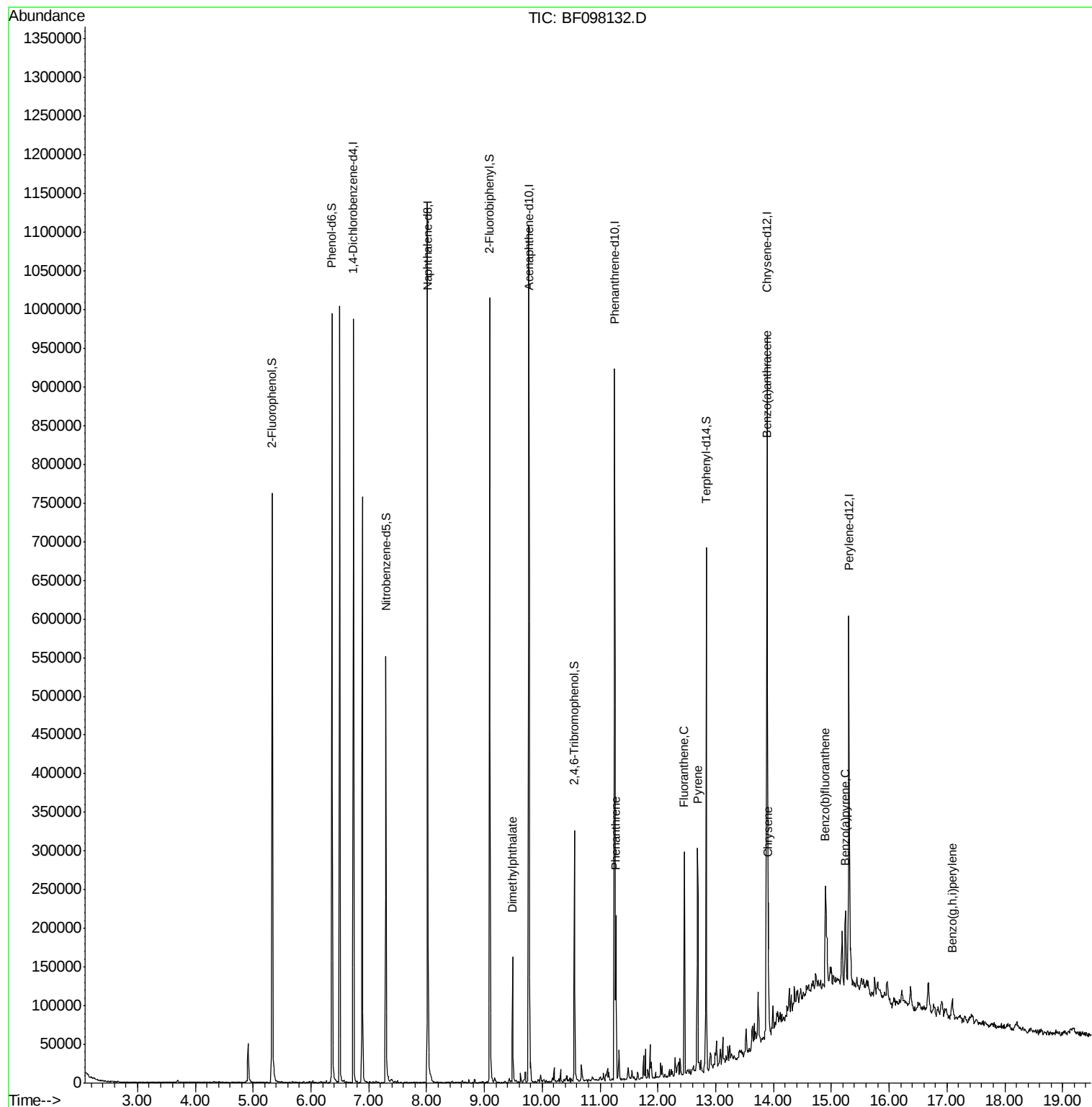
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\  
Data File : BF098132.D  
Acq On : 30 Aug 2017 1:14  
Operator : SJ/JU  
Sample : I4981-01 5X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

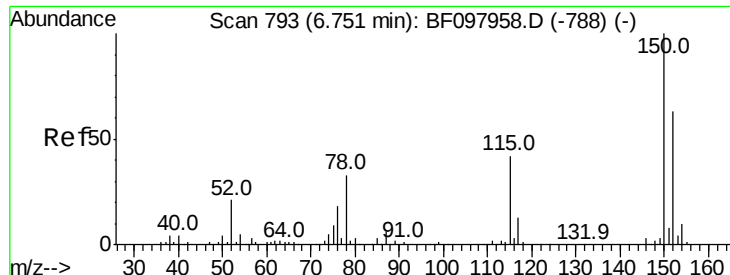
Instrument :  
BNA\_F  
ClientSampleId :  
S14-WC-01

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Quant Time: Aug 30 07:29:52 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 21 15:59:04 2017  
Response via : Initial Calibration





#1

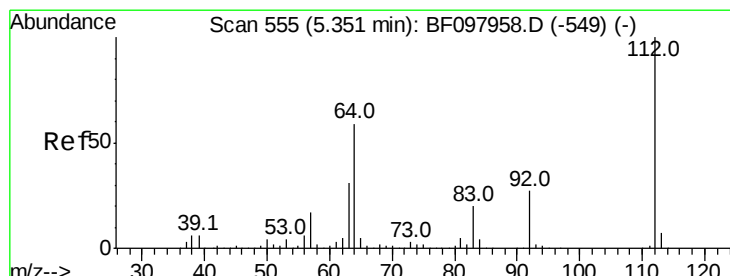
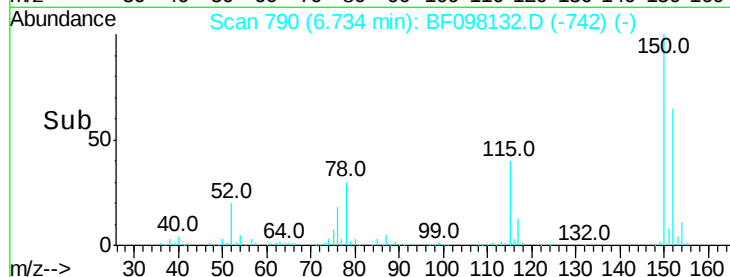
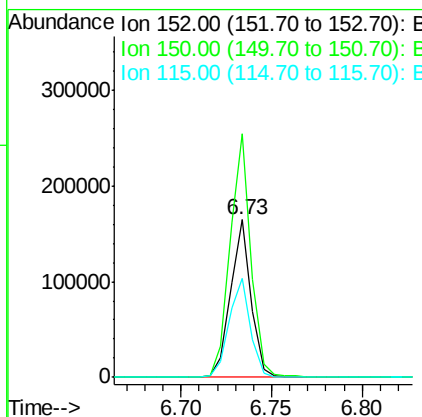
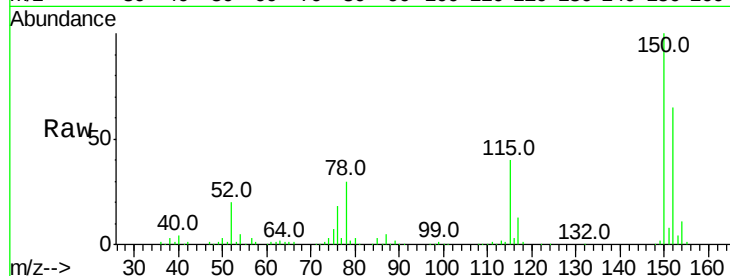
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.02 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
S14-WC-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.5 | 126.2 | 189.2 |
| 115     | 62.4  | 52.2  | 78.2  |

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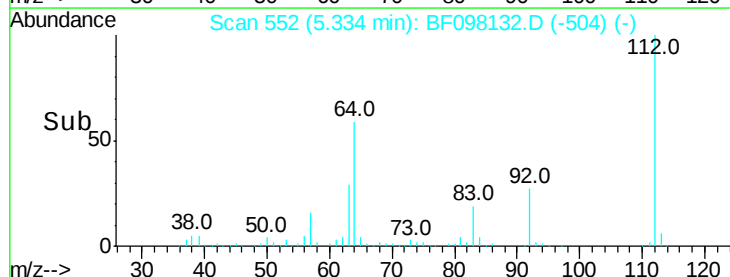
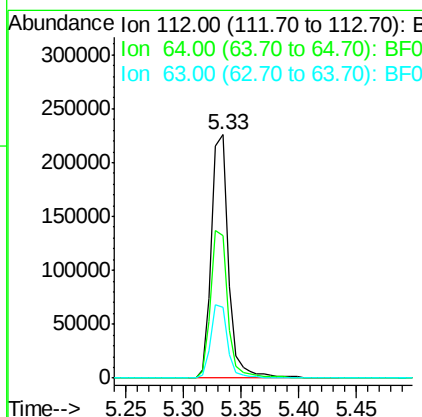
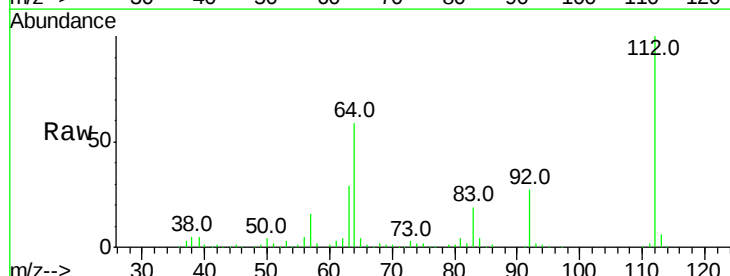
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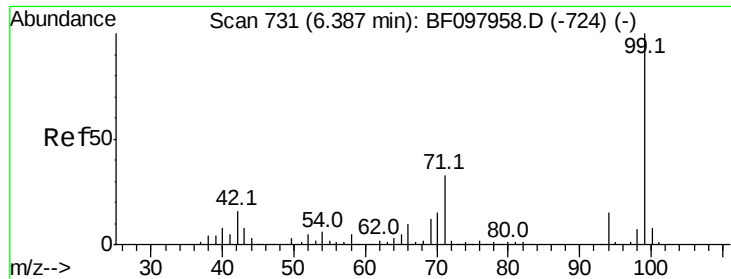


#5

2-Fluorophenol  
Concen: 27.524 ng  
RT: 5.33 min Scan# 552  
Delta R.T. -0.02 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.6  | 46.0  | 69.0  |
| 63      | 29.0  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 27.306 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

Instrument :

BNA\_F

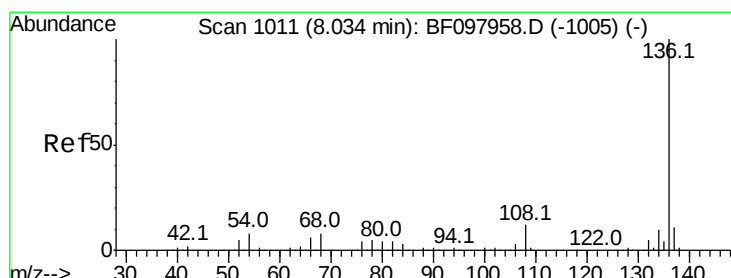
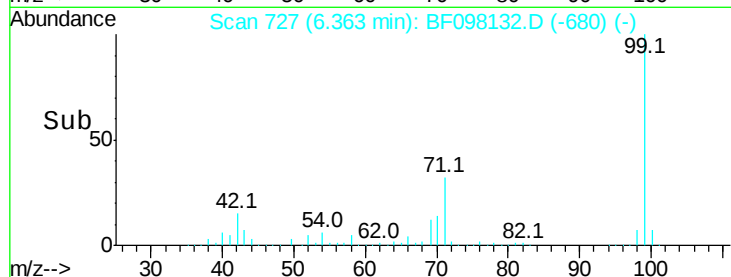
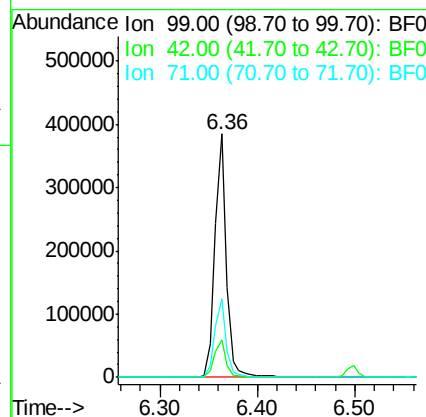
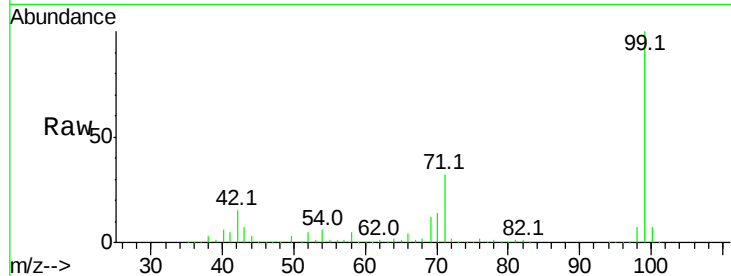
ClientSampled :

S14-WC-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 316090 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.3  | 13.5  | 20.3   |
| 71        | 32.1  | 24.5  | 36.7   |

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#21

Naphthalene-d8

Concen: 20.000 ng

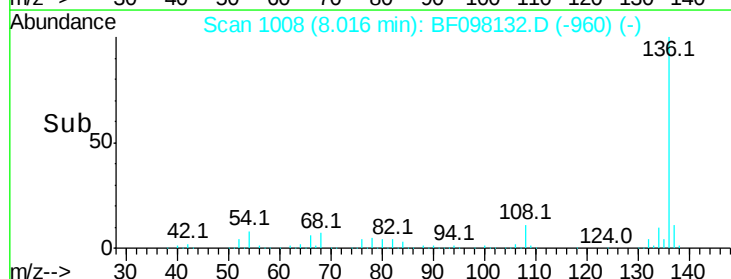
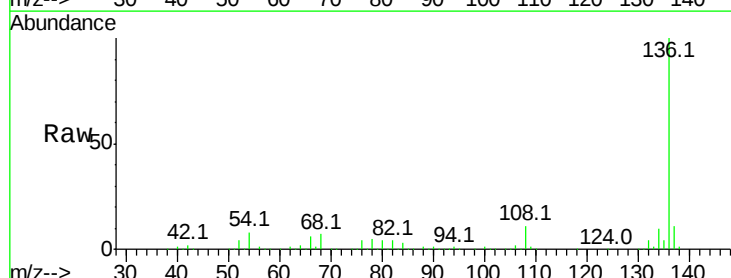
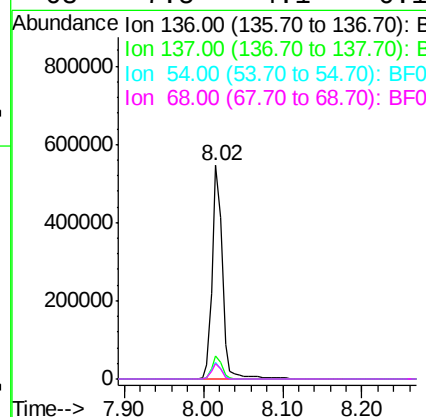
RT: 8.02 min Scan# 1008

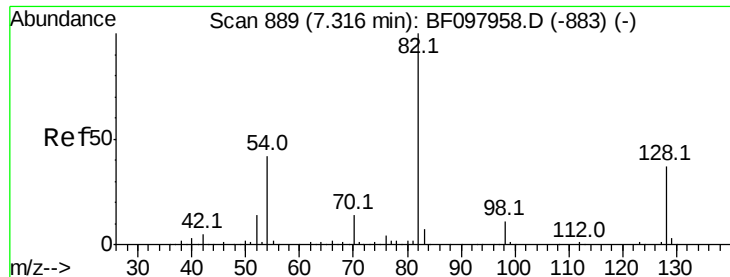
Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 493324 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.5   | 12.7   |
| 54        | 7.7   | 4.9   | 7.3#   |
| 68        | 7.5   | 4.1   | 6.1#   |





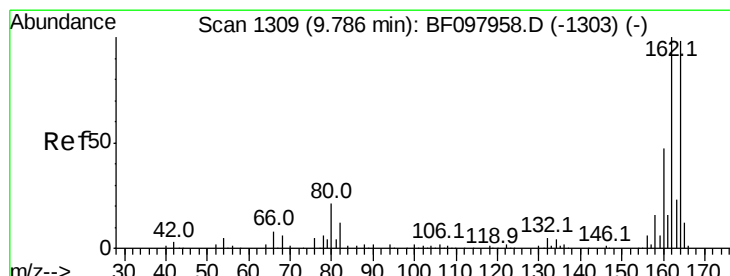
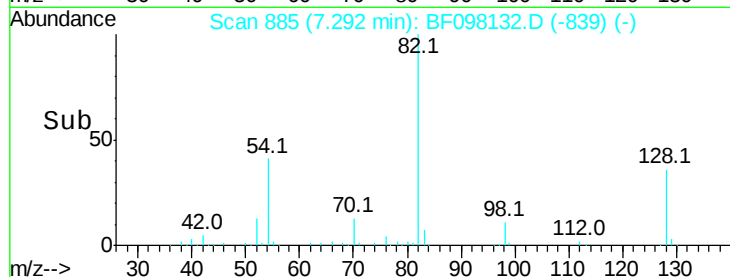
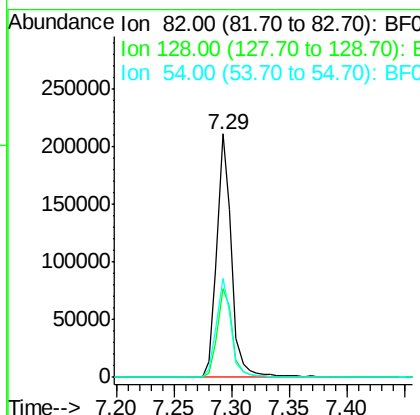
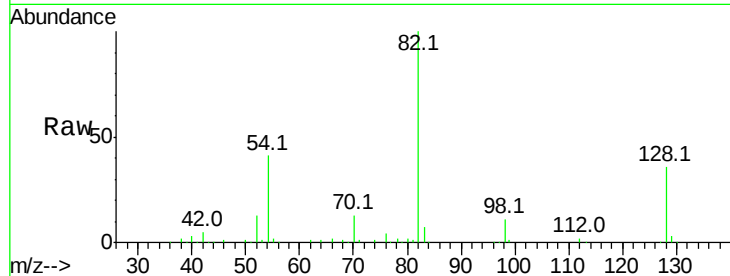
#23  
Nitrobenzene-d5  
Concen: 20.646 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.03 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampled :  
S14-WC-01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 36.2  | 34.0 | 51.0  |       |
| 54      | 40.8  | 42.2 | 63.2  |       |

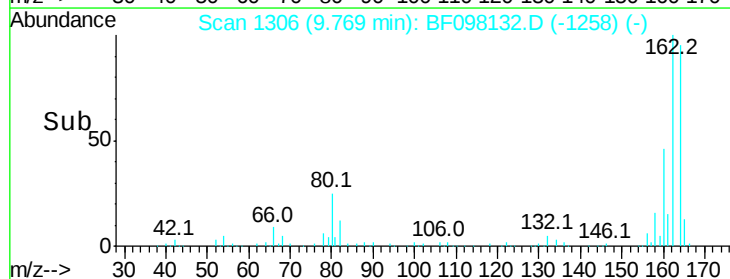
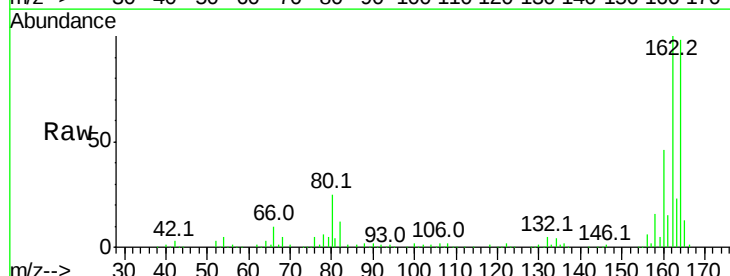
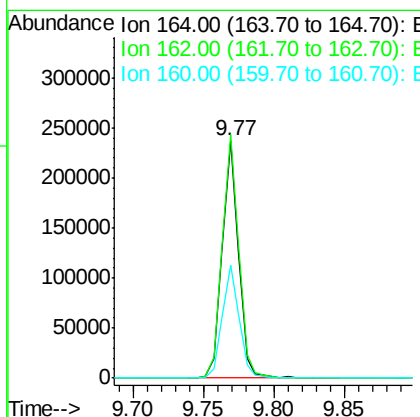
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.77 min Scan# 1306  
Delta R.T. -0.02 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.5 | 82.6 | 123.8 |       |
| 160     | 47.4  | 36.2 | 54.2  |       |





#41

2,4,6-Tribromophenol

Concen: 21.679 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

Instrument :

BNA\_F

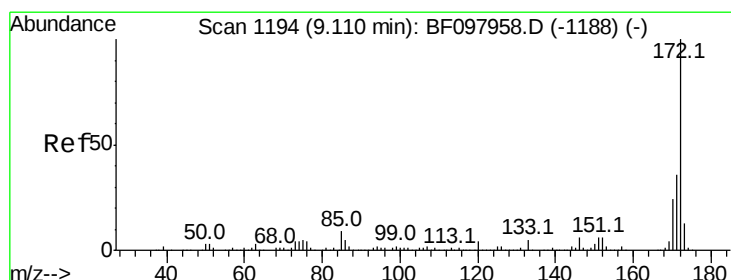
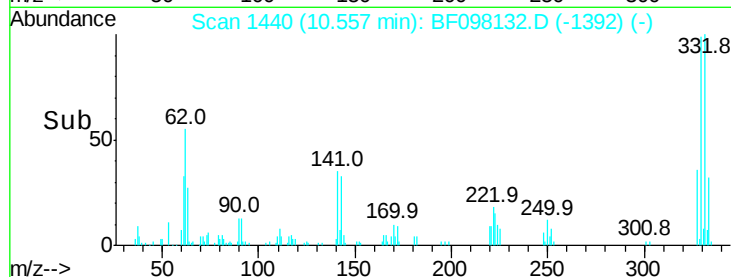
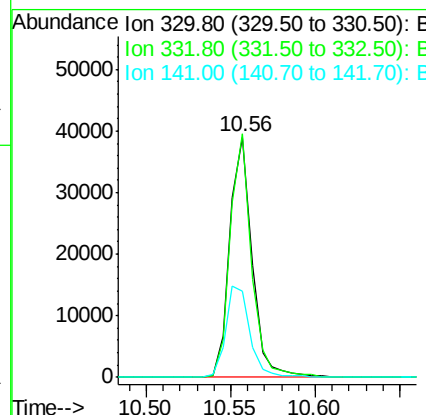
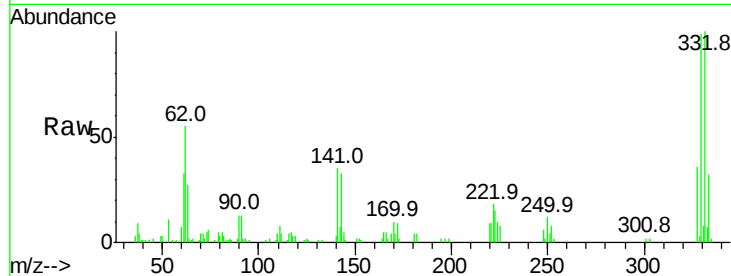
ClientSampled :

S14-WC-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 36038 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 96.8  | 76.6  | 115.0 |
| 141       | 41.5  | 31.4  | 47.2  |

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#44

2-Fluorobiphenyl

Concen: 21.507 ng

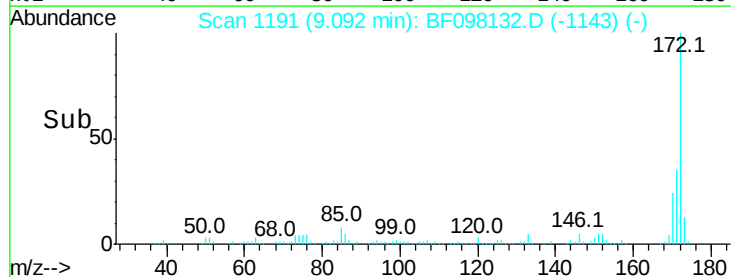
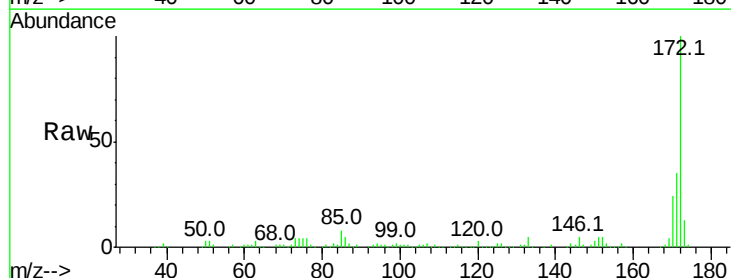
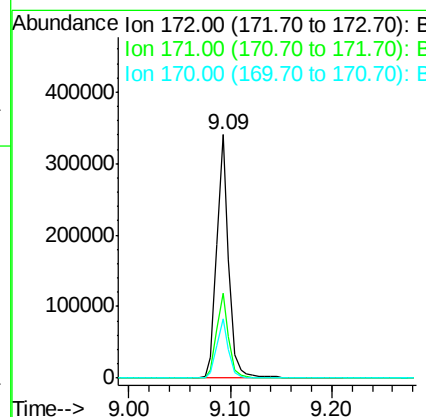
RT: 9.09 min Scan# 1191

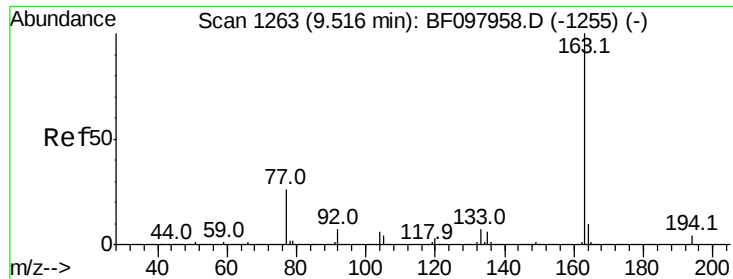
Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 280450 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.0  | 29.6  | 44.4   |
| 170       | 24.2  | 19.8  | 29.8   |





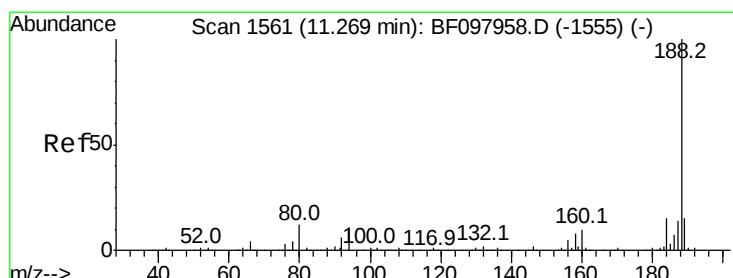
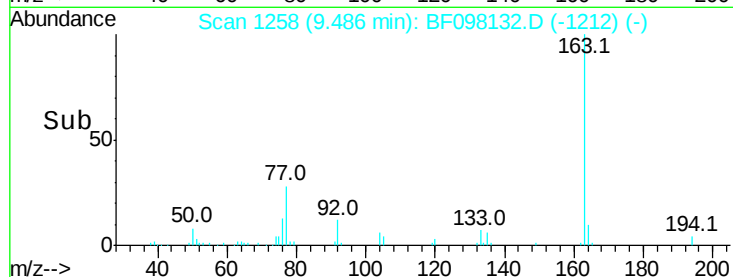
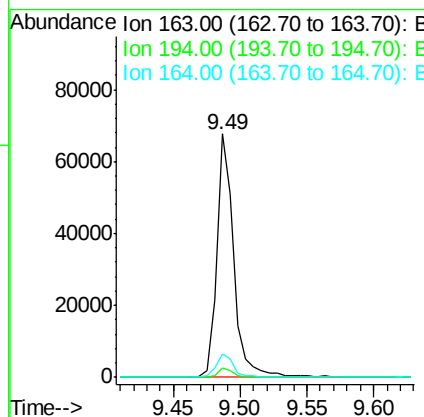
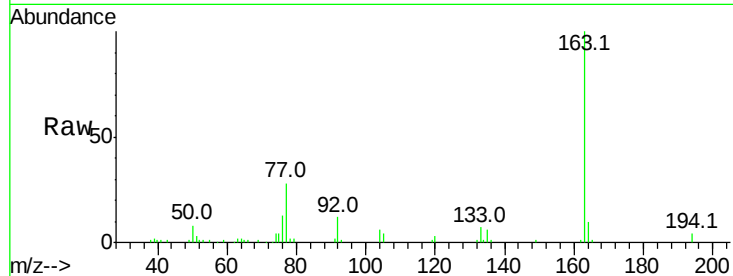
#49  
Dimethylphthalate  
Concen: 4.306 ng  
RT: 9.49 min Scan# 1258  
Delta R.T. -0.03 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
S14-WC-01

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 60298 |       |       |
| 194     | 3.7   |       | 2.6   | 4.0   |
| 164     | 9.6   |       | 8.4   | 12.6  |

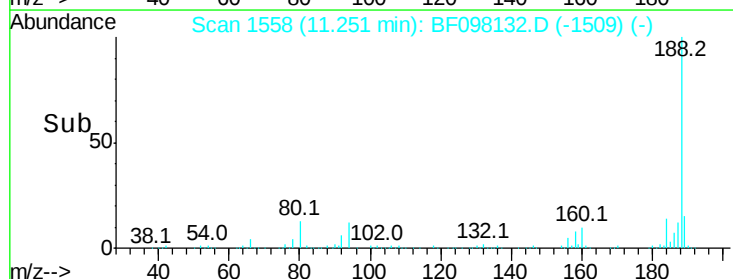
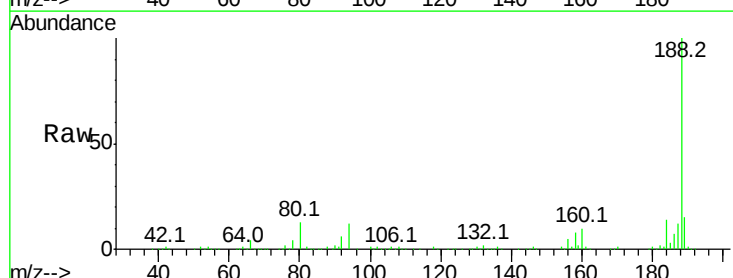
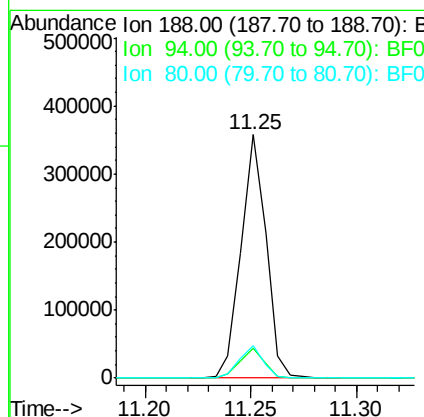
Manual Integrations  
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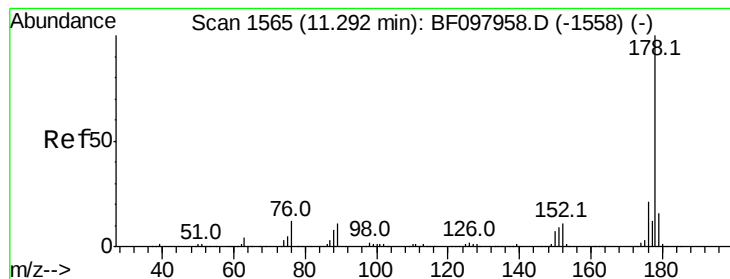
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.25 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 293172 |       |       |
| 94      | 12.1  |        | 9.4   | 14.2  |
| 80      | 13.4  |        | 10.2  | 15.2  |





#70

Phenanthrene

Concen: 4.260 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

Instrument :

BNA\_F

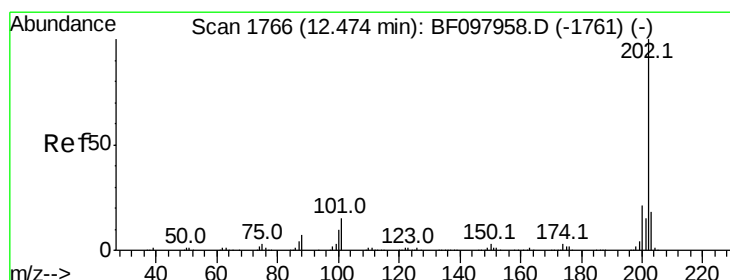
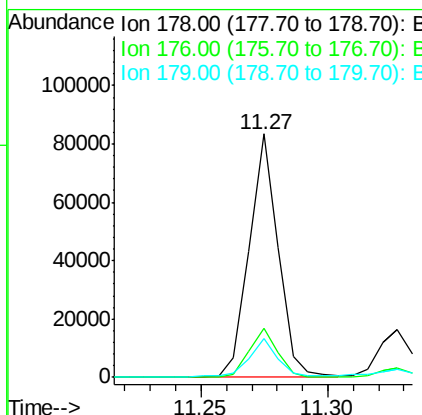
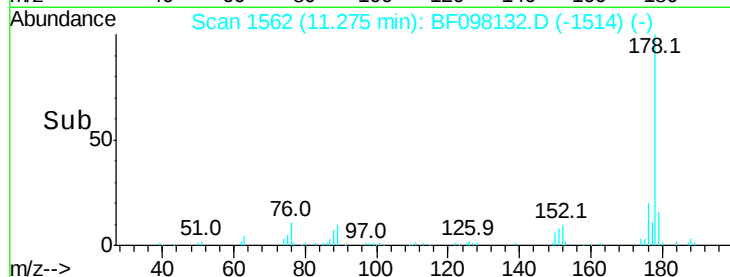
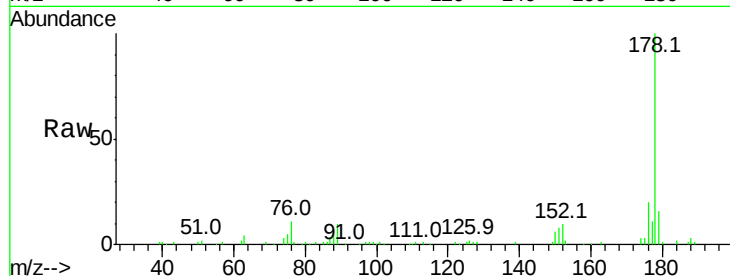
ClientSampled :

S14-WC-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 66550 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.1  | 16.2  | 24.4  |
| 179       | 16.1  | 12.6  | 19.0  |

Manual Integrations  
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#74

Fluoranthene

Concen: 7.226 ng

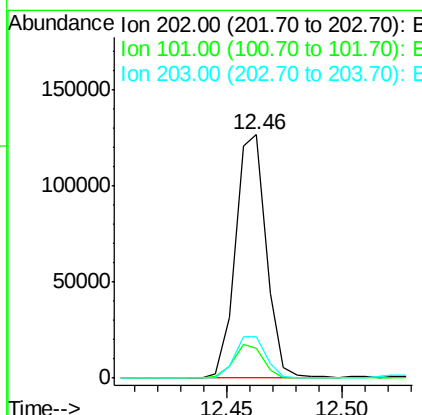
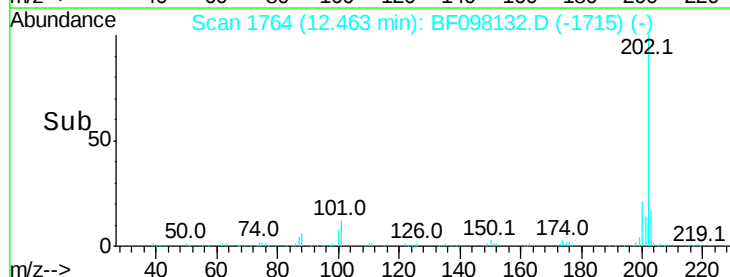
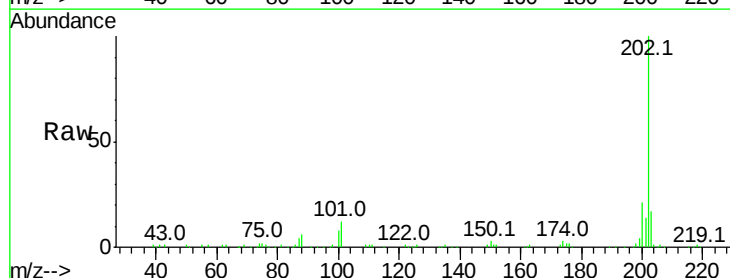
RT: 12.46 min Scan# 1764

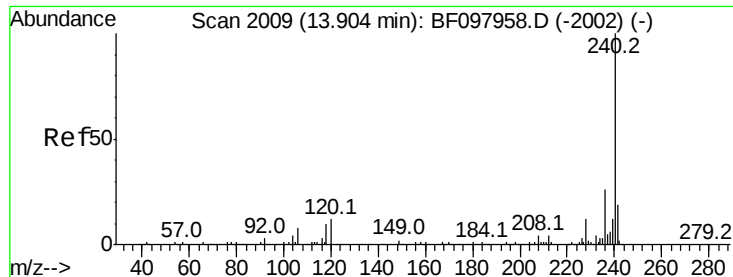
Delta R.T. -0.01 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 117834 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.0  | 0.0   | 33.2   |
| 203       | 17.2  | 0.0   | 38.1   |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

Instrument :

BNA\_F

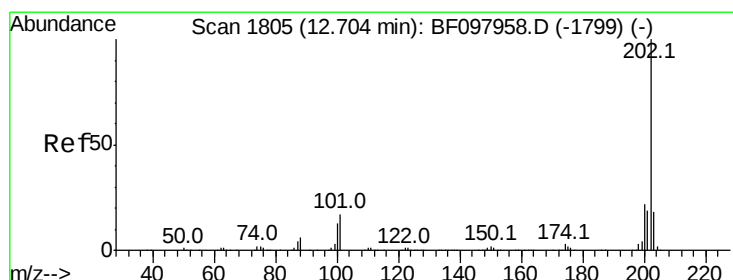
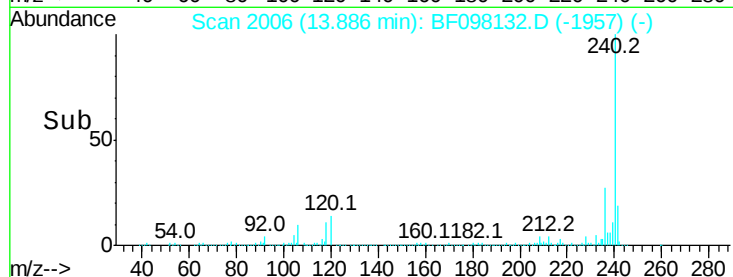
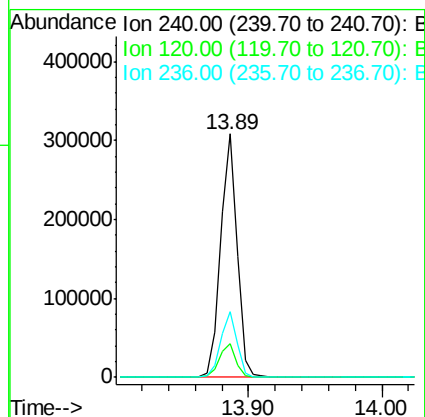
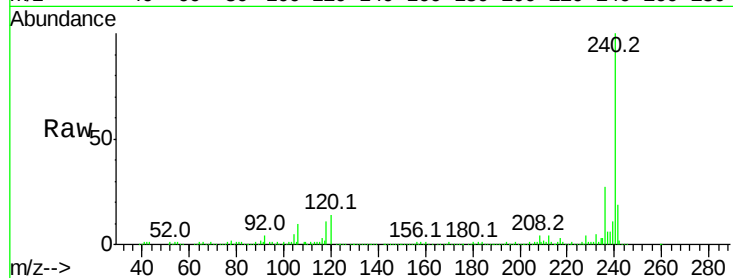
ClientSampleId :

S14-WC-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.7  | 5.8   | 8.8#  |
| 236     | 26.9  | 20.5  | 30.7  |

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#77

Pyrene

Concen: 5.194 ng

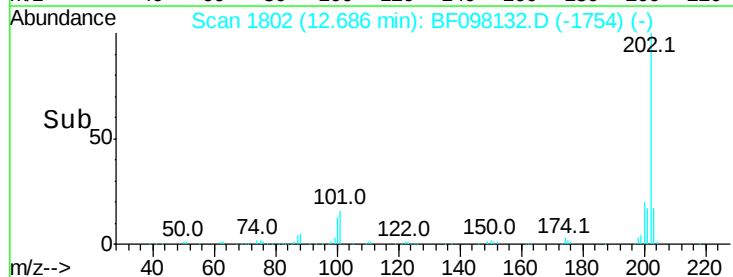
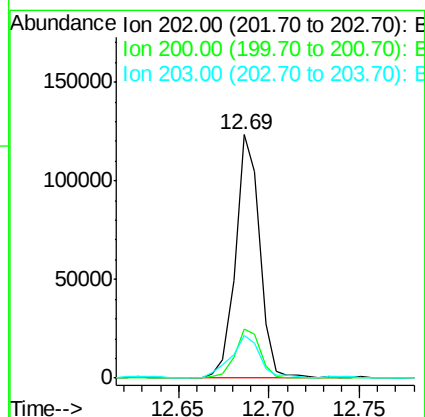
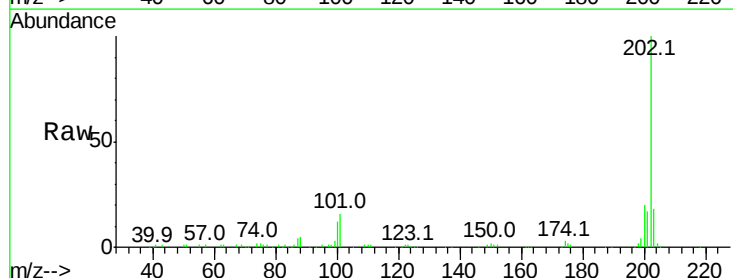
RT: 12.69 min Scan# 1802

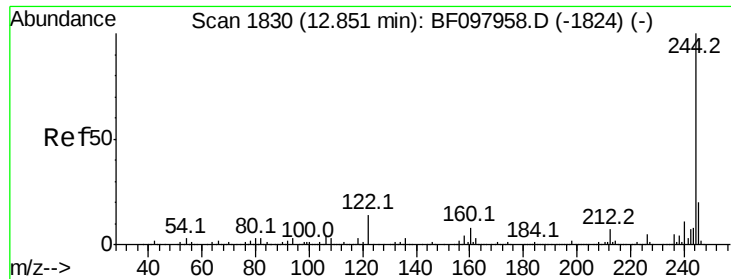
Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.9  | 17.6  | 26.4  |
| 203     | 17.8  | 14.4  | 21.6  |





#78

Terphenyl-d14

Concen: 13.578 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

Instrument :

BNA\_F

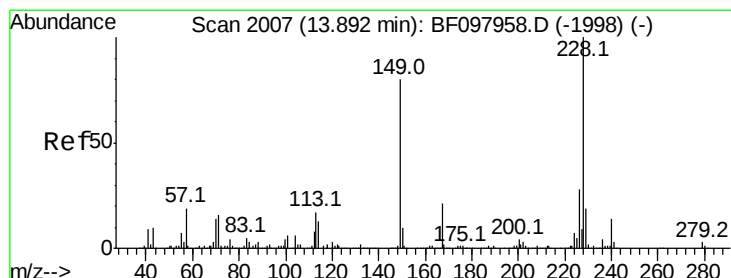
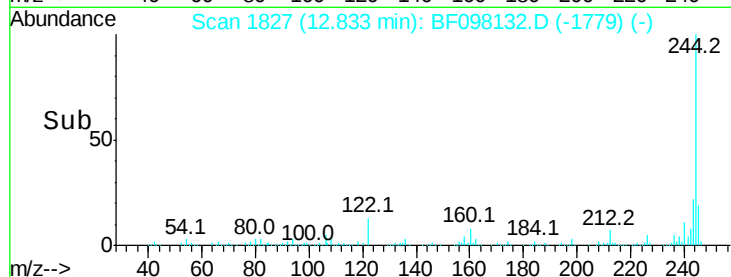
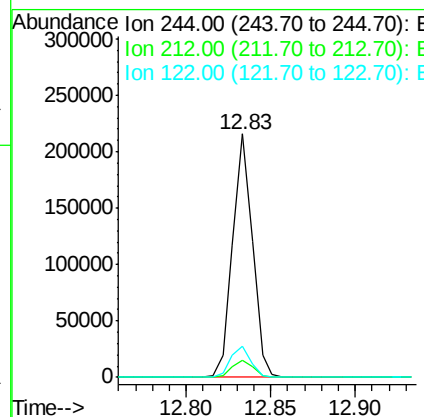
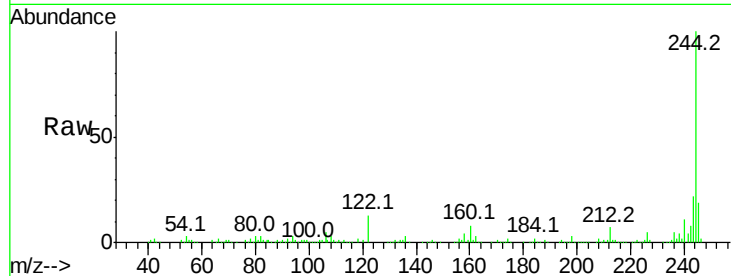
ClientSampleId :

S14-WC-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 175997 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.1   | 6.0   | 9.0    |
| 122       | 12.7  | 10.3  | 15.5   |

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#80

Benzo(a)anthracene

Concen: 3.894 ng

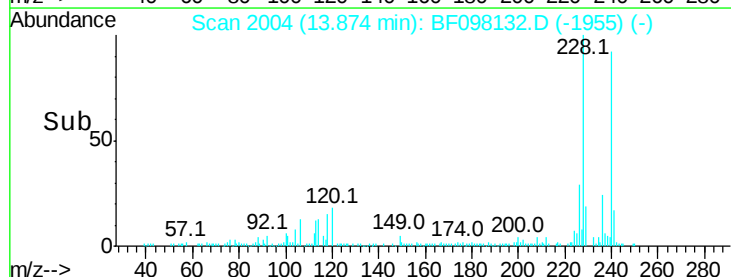
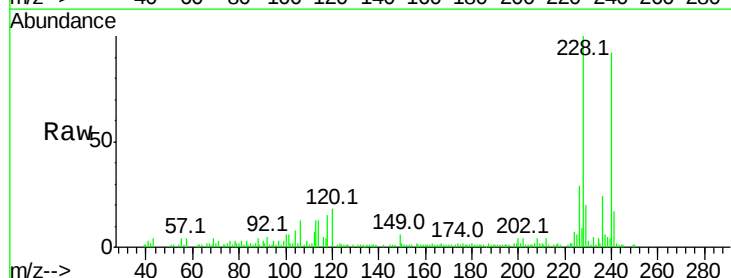
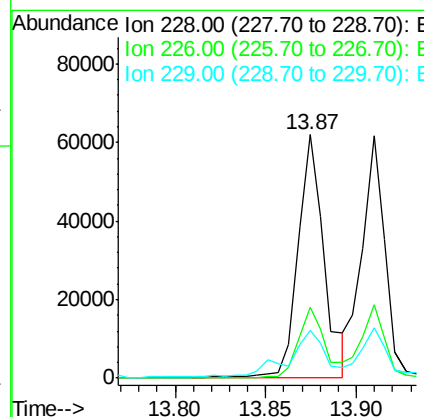
RT: 13.87 min Scan# 2004

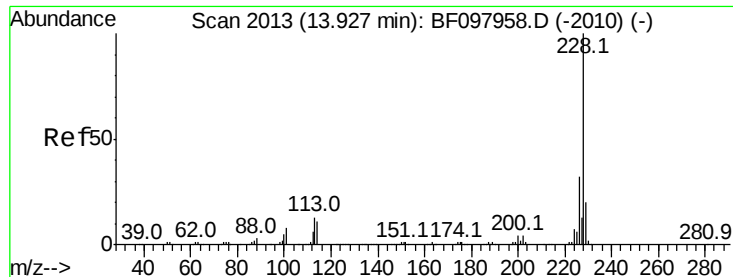
Delta R.T. -0.01 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 63086 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.3  | 22.6  | 33.8  |
| 229       | 19.9  | 16.3  | 24.5  |





#82

Chrysene

Concen: 3.446 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.02 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

Instrument :

BNA\_F

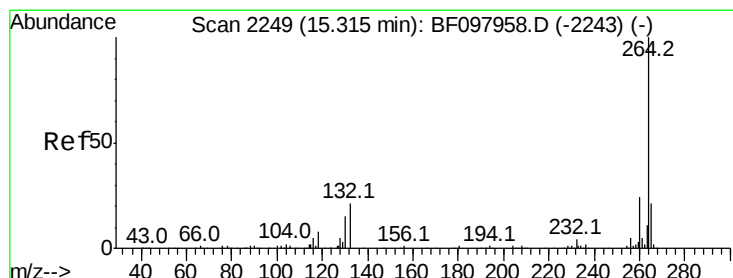
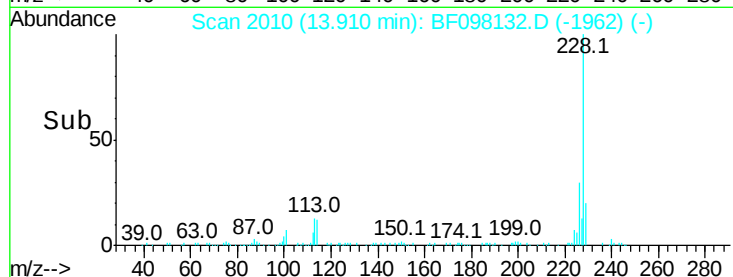
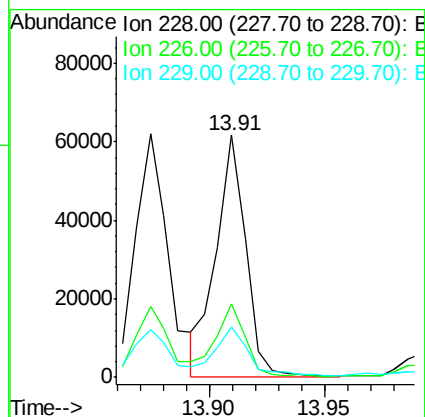
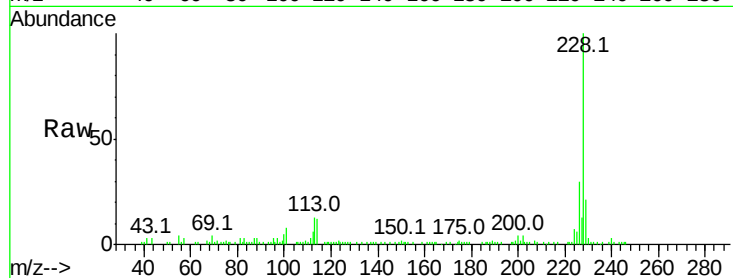
ClientSampleId :

S14-WC-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 55541 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.4  | 24.9  | 37.3  |
| 229       | 20.8  | 15.8  | 23.6  |

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#86

Perylene-d12

Concen: 20.000 ng

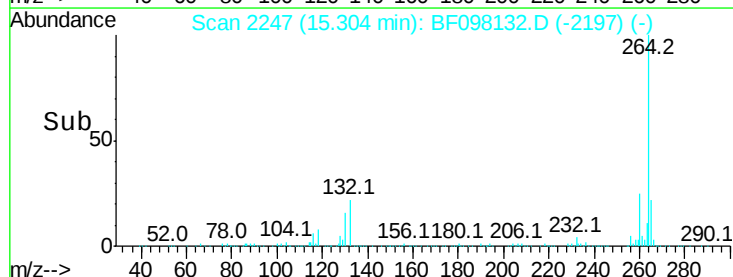
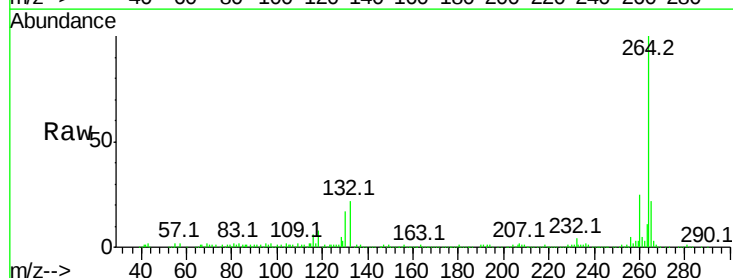
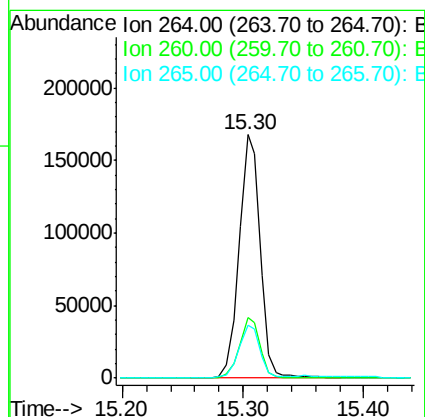
RT: 15.30 min Scan# 2247

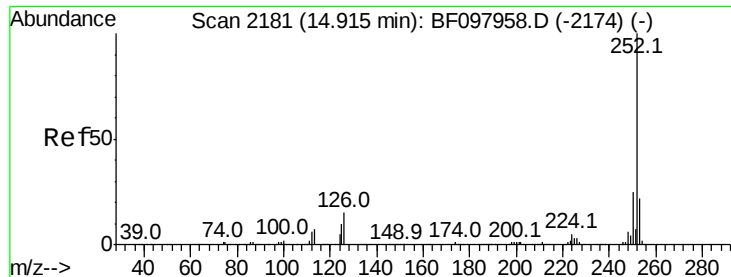
Delta R.T. -0.01 min

Lab File: BF098132.D

Acq: 30 Aug 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 204076 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 25.0  | 19.5  | 29.3   |
| 265       | 21.9  | 17.2  | 25.8   |





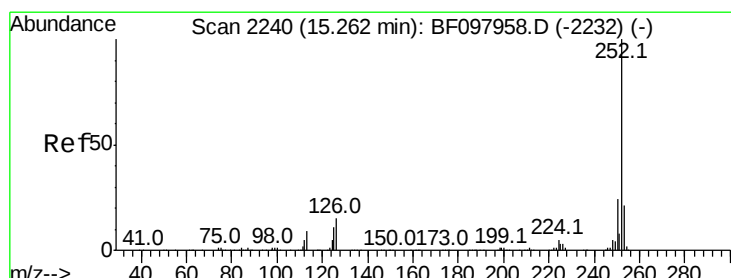
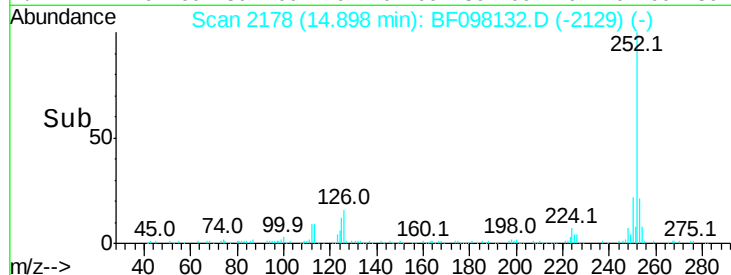
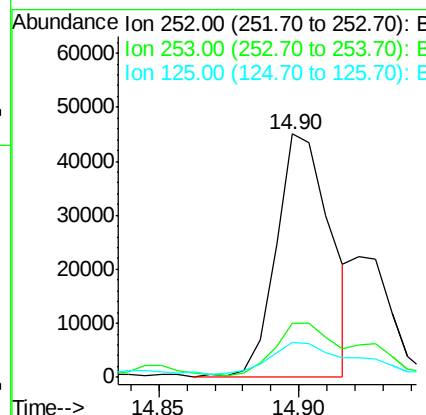
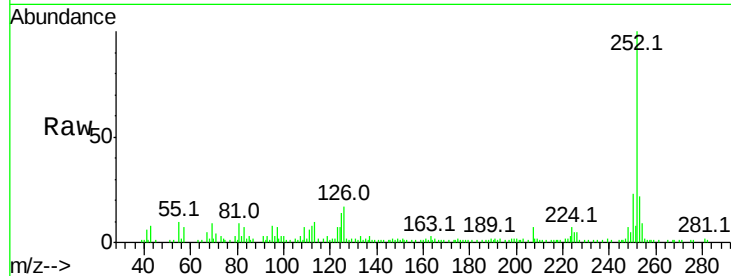
#87  
Benzo(b)fluoranthene  
Concen: 4.758 ng m  
RT: 14.90 min Scan# 2178  
Delta R.T. -0.01 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
S14-WC-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.1  | 27.1  |
| 125     | 14.2  | 9.8   | 14.8  |

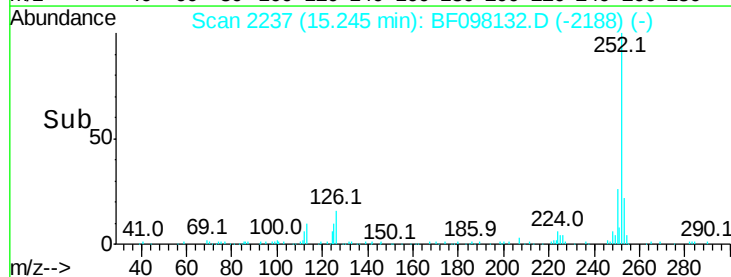
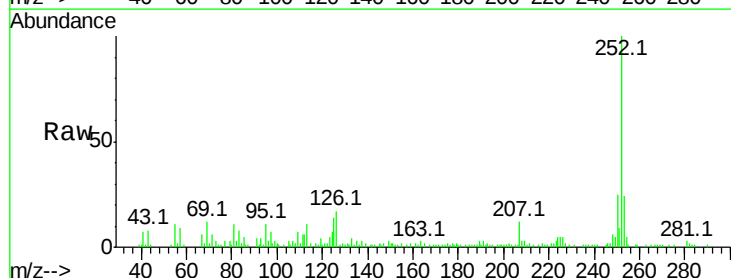
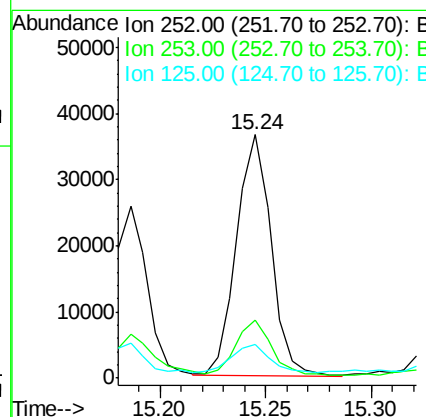
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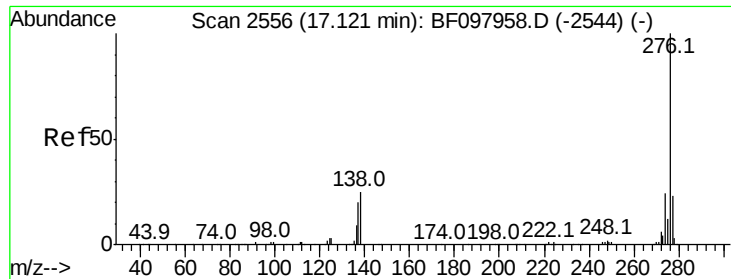
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#89  
Benzo(a)pyrene  
Concen: 3.644 ng  
RT: 15.24 min Scan# 2237  
Delta R.T. -0.01 min  
Lab File: BF098132.D  
Acq: 30 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.5  | 26.3  |
| 125     | 13.8  | 11.0  | 16.4  |





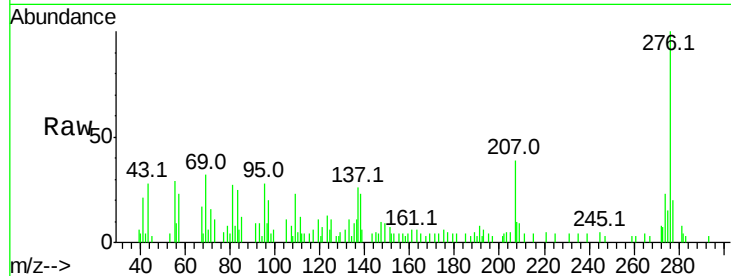
#91  
 Benzo(a,h,i)perylene  
 Concen: 2.061 ng  
 RT: 17.09 min Scan# 2550  
 Delta R.T. -0.02 min  
 Lab File: BF098132.D  
 Acq: 30 Aug 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S14-WC-01

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 19.6  | 18.6       | 28.0  |
| 138     | 23.0  | 25.4       | 38.0  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

