

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081917\  
 Data File : BF097877.D  
 Acq On : 19 Aug 2017 14:30  
 Operator : SJ/JU  
 Sample : I4846-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PI-2(3)

Manual Integrations  
 APPROVED

Sohil  
 8/21/2017 5:19:52 PM

Quant Time: Aug 21 04:15:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 15 13:25:08 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.76  | 152  | 144479   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.05  | 136  | 603384   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.79  | 164  | 277107   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.27 | 188  | 485793   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 13.90 | 240  | 279779   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12            | 15.33 | 264  | 255908   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.37  | 112  | 613491   | 64.59  | ng    | -0.02    |
| 7) Phenol-d6                | 6.39  | 99   | 846491   | 65.59  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 548772   | 49.41  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.58 | 330  | 242250   | 100.75 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 852974   | 45.22  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.87 | 244  | 1184851  | 88.31  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.51  | 163  | 91628    | 4.524  | ng    | 99       |
| 70) Phenanthrene            | 11.30 | 178  | 90192    | 3.484  | ng    | 99       |
| 74) Fluoranthene            | 12.48 | 202  | 136576   | 5.055  | ng    | 99       |
| 77) Pyrene                  | 12.71 | 202  | 128699   | 5.624  | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.89 | 228  | 54951    | 3.277  | ng    | 98       |
| 82) Chrysene                | 13.93 | 228  | 54743    | 3.282  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.70 | 276  | 31827    | 2.594  | ng    | 93       |
| 87) Benzo(b)fluoranthene    | 14.92 | 252  | 73604m   | 4.563  | ng    |          |
| 89) Benzo(a)pyrene          | 15.26 | 252  | 47848    | 3.351  | ng    | 97       |
| 91) Benzo(g,h,i)perylene    | 17.12 | 276  | 29354    | 2.420  | ng    | # 87     |

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

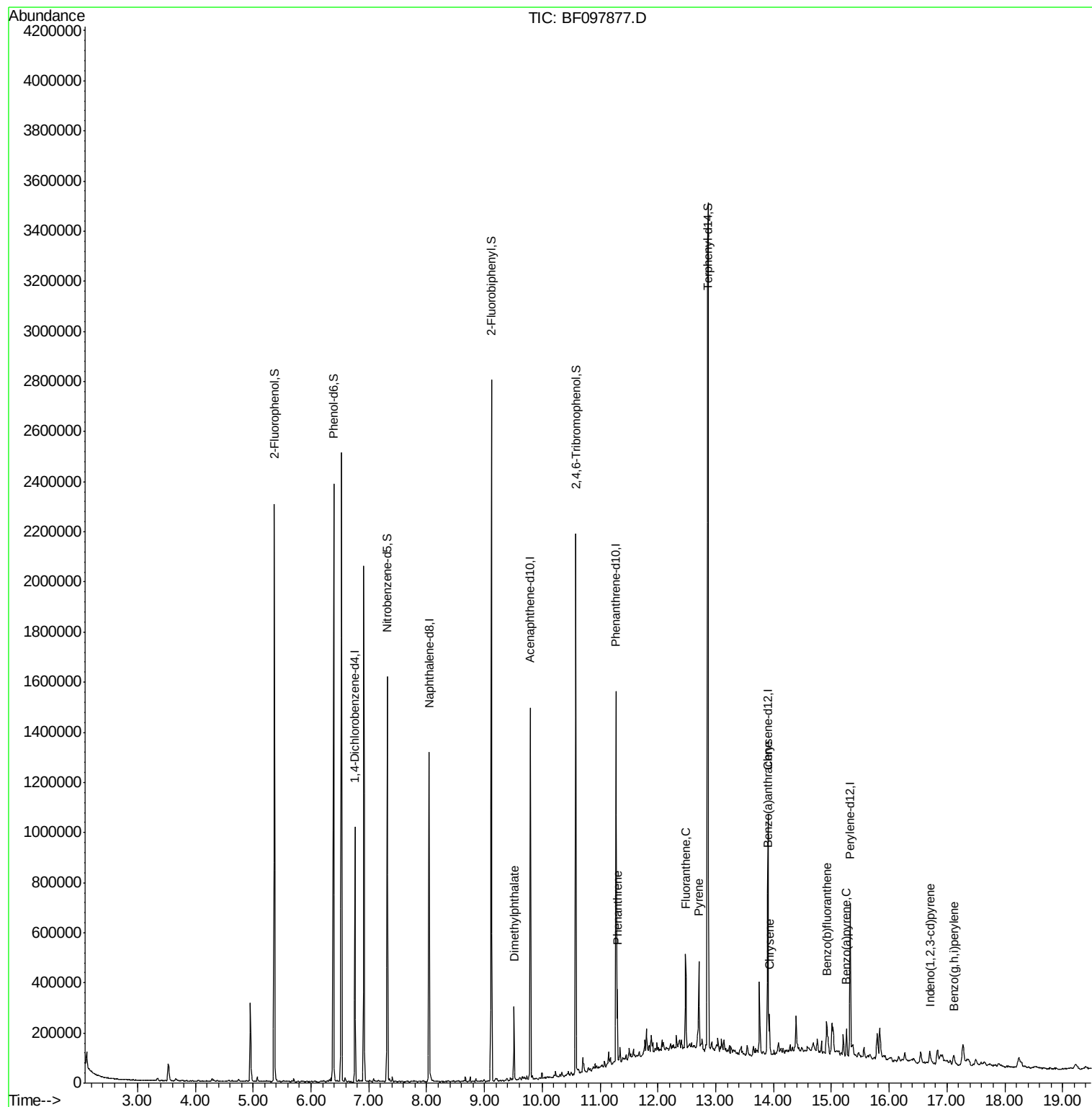
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081917\  
Data File : BF097877.D  
Acq On : 19 Aug 2017 14:30  
Operator : SJ/JU  
Sample : I4846-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

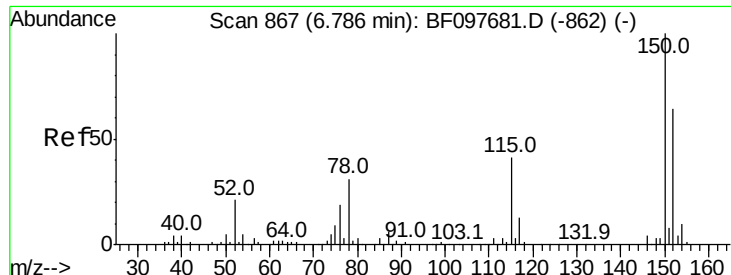
Instrument :  
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ClientSampleId :  
PI-2(3)

Manual Integrations  
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Quant Time: Aug 21 04:15:21 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 15 13:25:08 2017  
Response via : Initial Calibration





#1

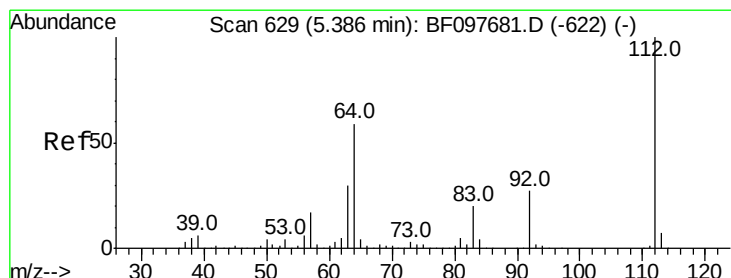
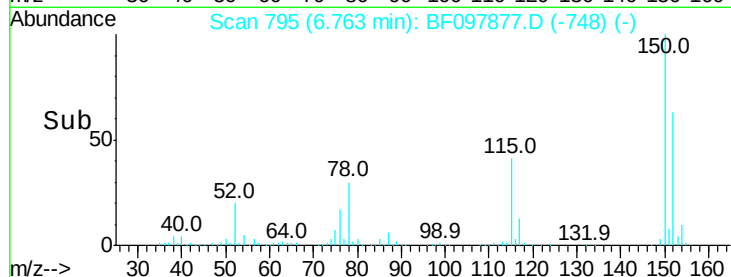
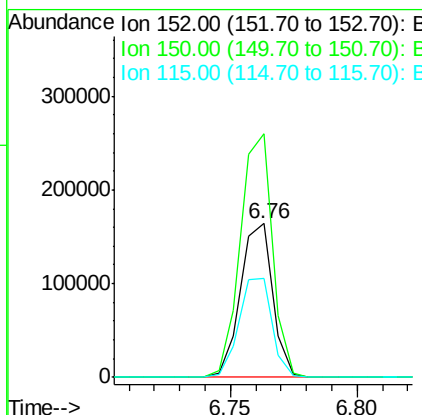
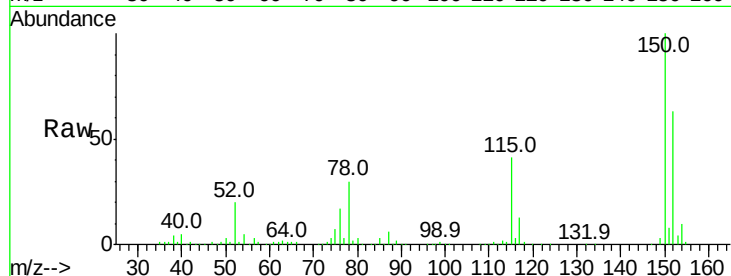
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.76 min Scan# 795  
Delta R.T. -0.02 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

Instrument :  
BNA\_F  
ClientSampleId :  
PI-2(3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 126.2 | 189.2 |
| 115     | 64.2  | 52.2  | 78.2  |

Manual Integrations  
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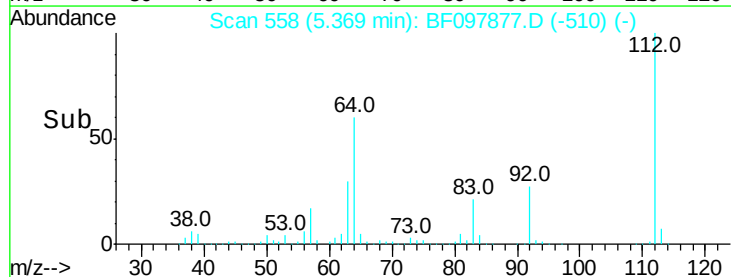
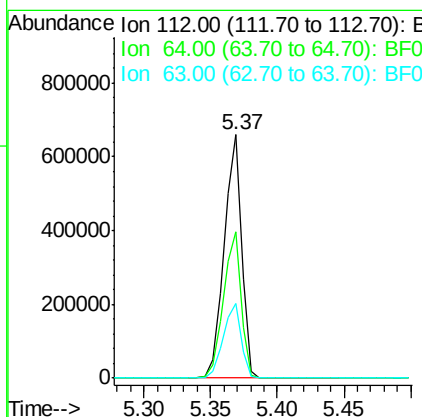
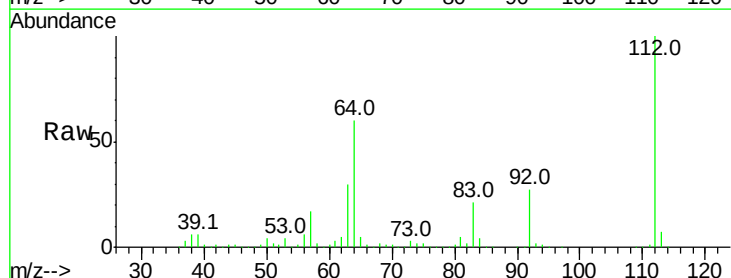
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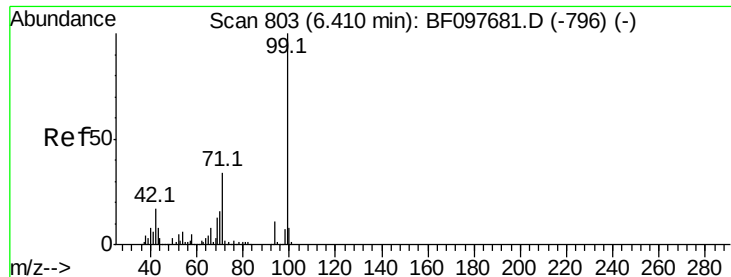


#5

2-Fluorophenol  
Concen: 64.588 ng  
RT: 5.37 min Scan# 558  
Delta R.T. -0.02 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.0  | 46.0  | 69.0  |
| 63      | 30.5  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 65.590 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA\_F

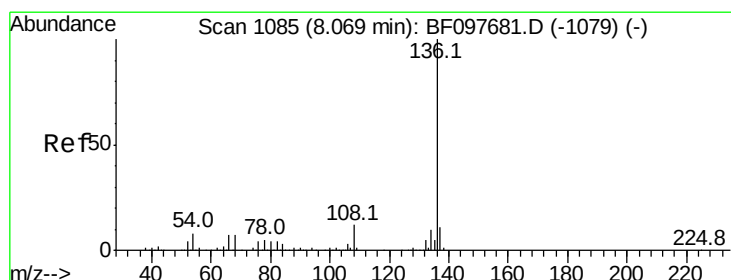
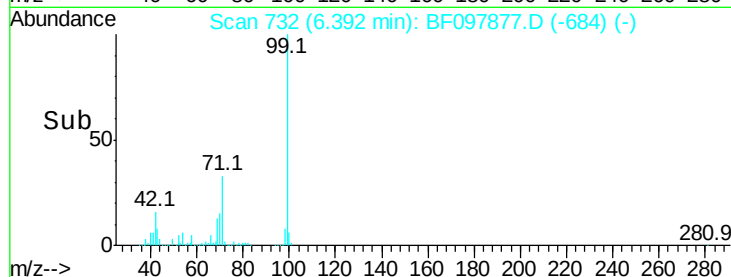
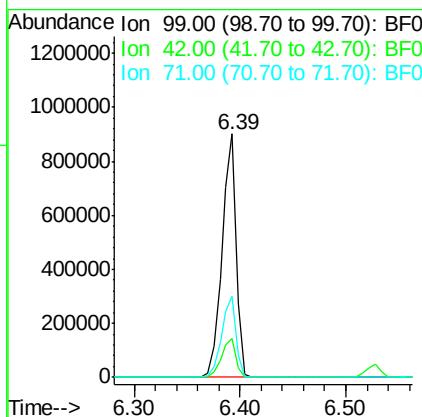
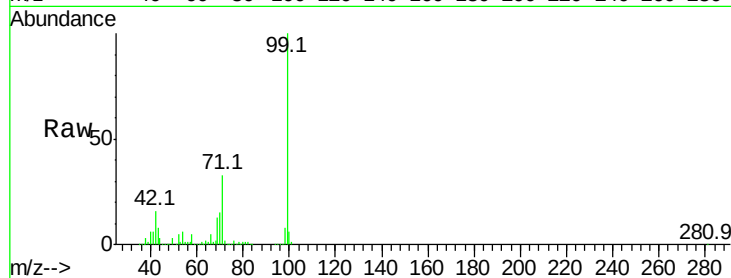
ClientSampleId :

PI-2(3)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 846491 |       |       |
| 42      | 15.9 | 13.5  | 20.3   |       |       |
| 71      | 33.1 | 24.5  | 36.7   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

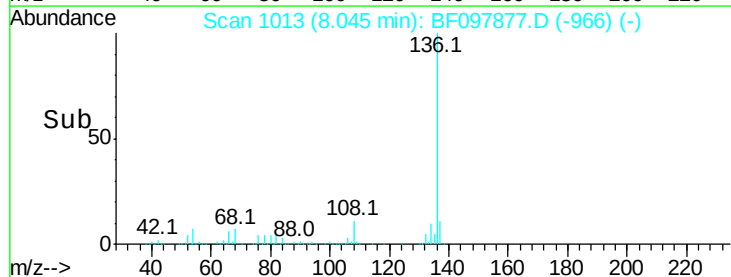
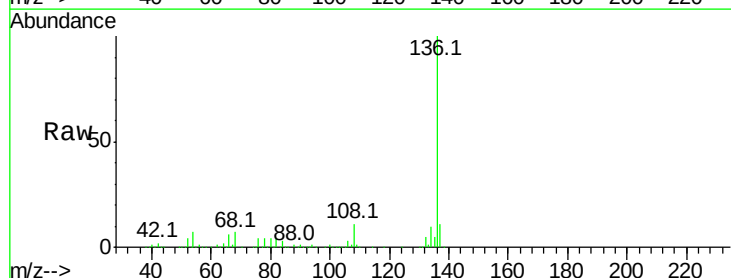
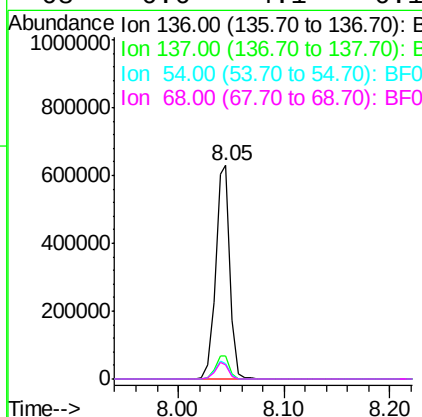
RT: 8.05 min Scan# 1013

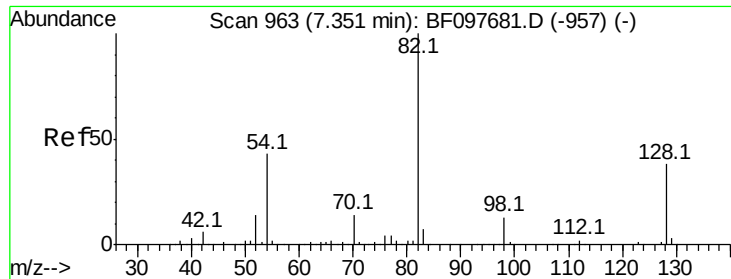
Delta R.T. -0.02 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 603384 |       |       |
| 137     | 10.7 | 8.5   | 12.7   |       |       |
| 54      | 7.1  | 4.9   | 7.3    |       |       |
| 68      | 6.6  | 4.1   | 6.1#   |       |       |





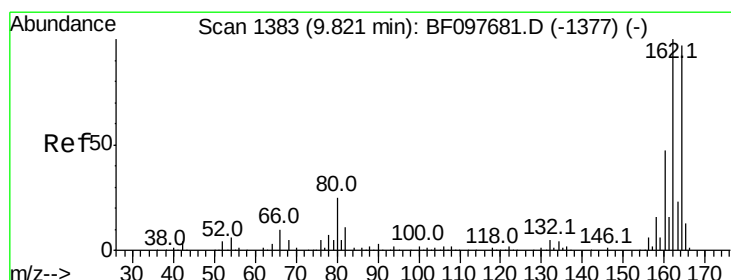
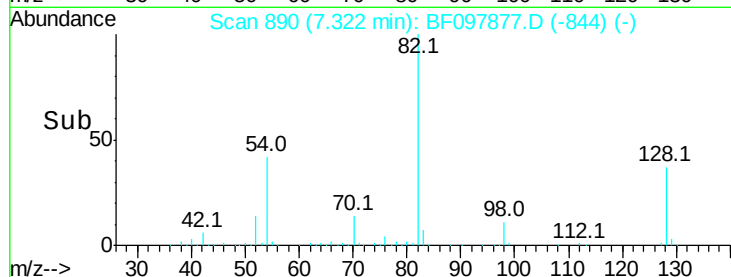
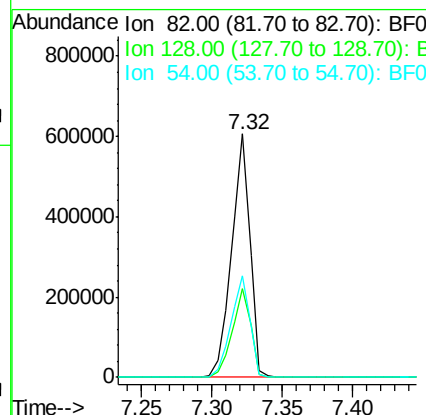
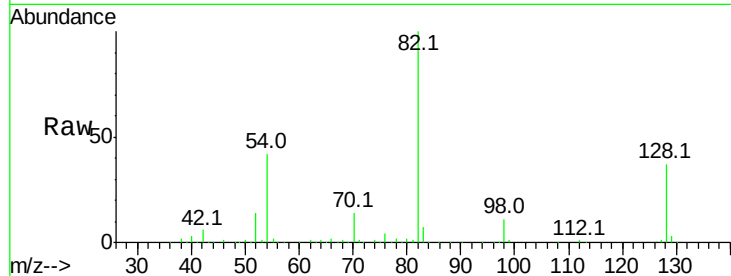
#23  
 Nitrobenzene-d5  
 Concen: 49.408 ng  
 RT: 7.32 min Scan# 890  
 Delta R.T. -0.03 min  
 Lab File: BF097877.D  
 Acq: 19 Aug 2017 14:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PI-2(3)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 36.6  | 34.0 | 51.0  |       |
| 54      | 41.9  | 42.2 | 63.2  |       |

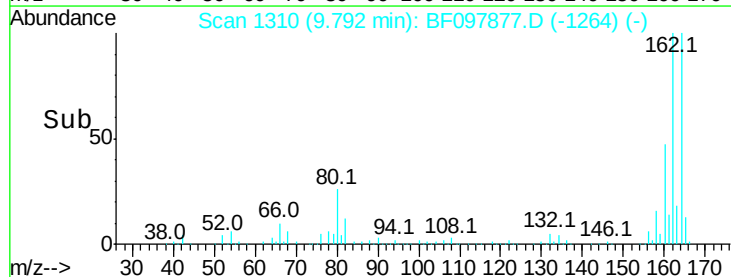
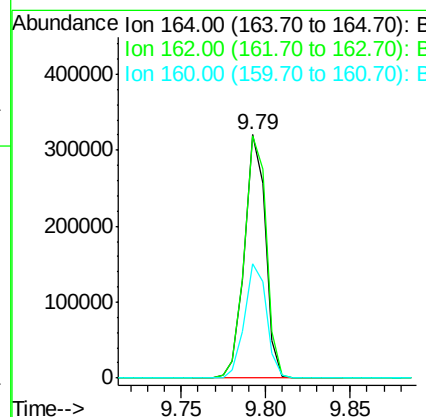
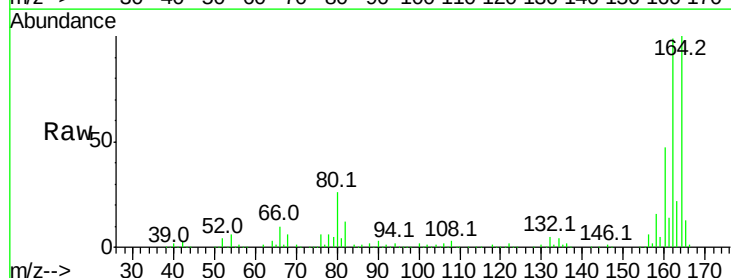
Manual Integrations  
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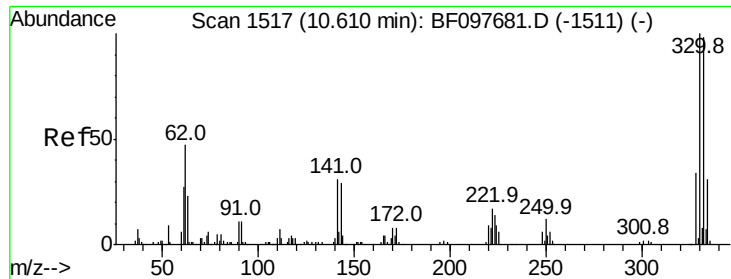
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.79 min Scan# 1310  
 Delta R.T. -0.03 min  
 Lab File: BF097877.D  
 Acq: 19 Aug 2017 14:30

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 99.3  | 82.6 | 123.8 |       |
| 160     | 47.2  | 36.2 | 54.2  |       |





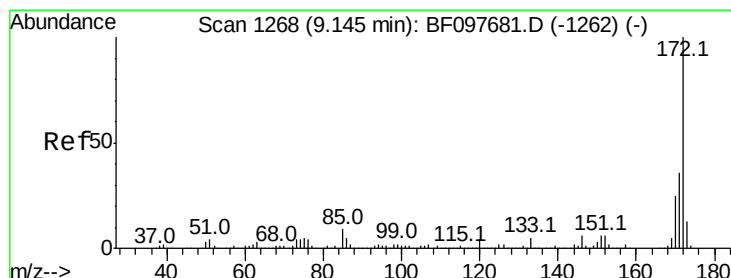
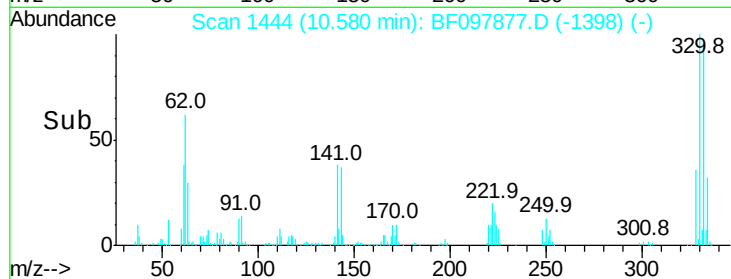
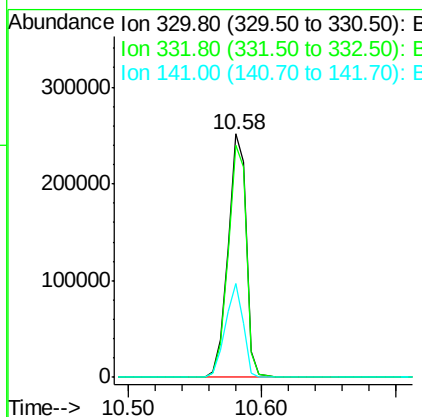
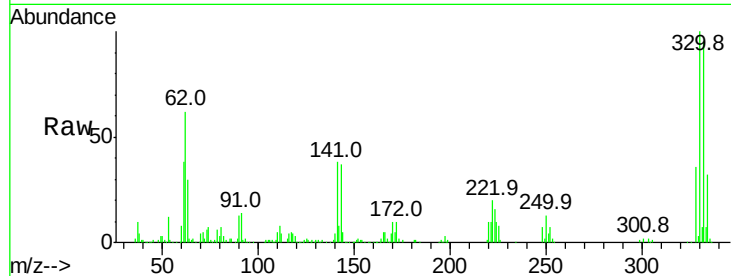
#41  
 2,4,6-Tribromophenol  
 Concen: 100.755 ng  
 RT: 10.58 min Scan# 1444  
 Delta R.T. -0.03 min  
 Lab File: BF097877.D  
 Acq: 19 Aug 2017 14:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PI-2(3)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 242250 |       |       |
| 332     | 96.0  | 76.6   | 115.0 |       |
| 141     | 38.3  | 31.4   | 47.2  |       |

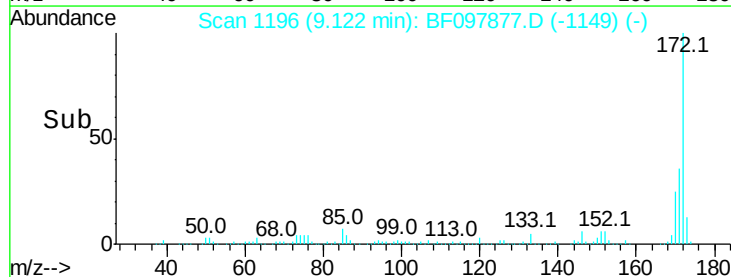
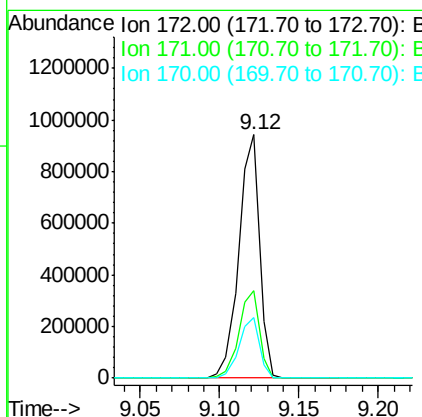
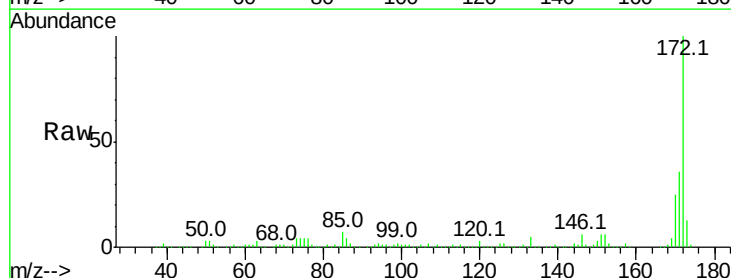
Manual Integrations  
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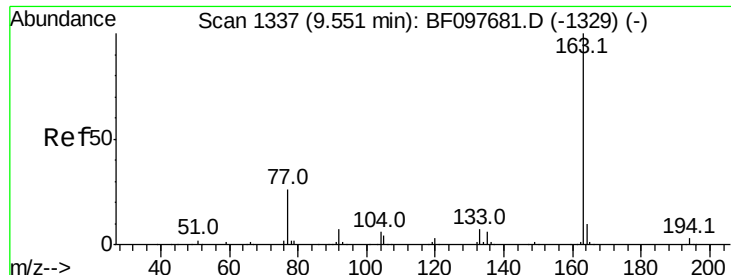
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#44  
 2-Fluorobiphenyl  
 Concen: 45.224 ng  
 RT: 9.12 min Scan# 1196  
 Delta R.T. -0.02 min  
 Lab File: BF097877.D  
 Acq: 19 Aug 2017 14:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 852974 |       |       |
| 171     | 36.0  | 29.6   | 44.4  |       |
| 170     | 24.8  | 19.8   | 29.8  |       |





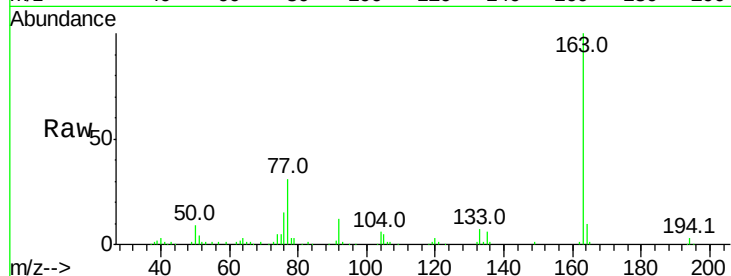
#49  
Dimethylphthalate  
Concen: 4.524 ng  
RT: 9.51 min Scan# 1262  
Delta R.T. -0.04 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

Instrument :  
BNA\_F  
ClientSampleId :  
PI-2(3)

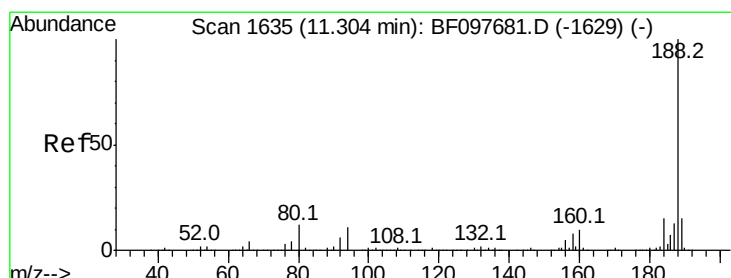
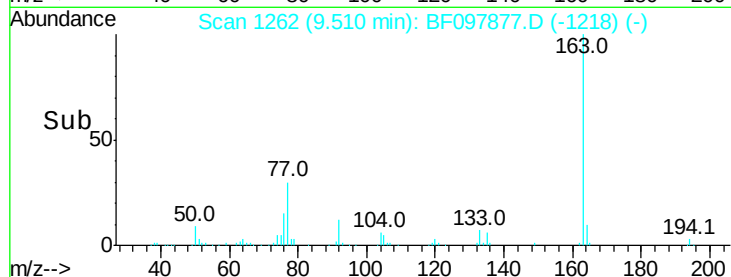
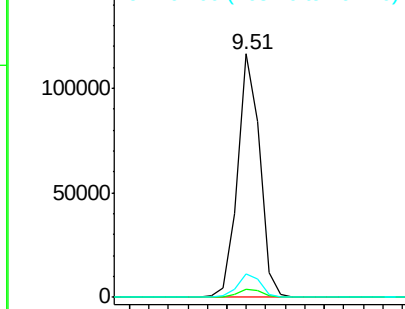
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.3   | 2.6   | 4.0   |
| 164     | 9.8   | 8.4   | 12.6  |

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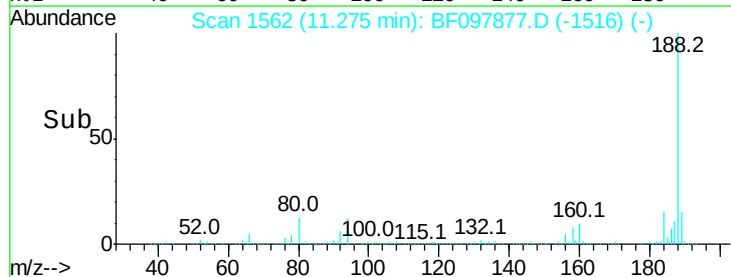
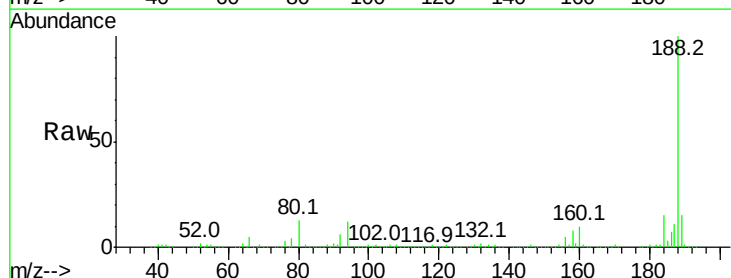
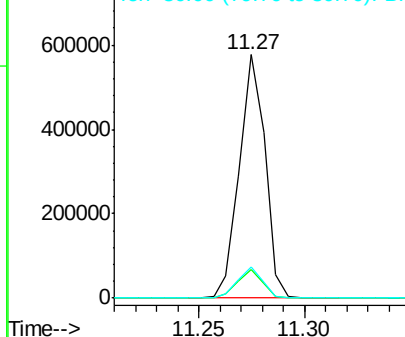
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

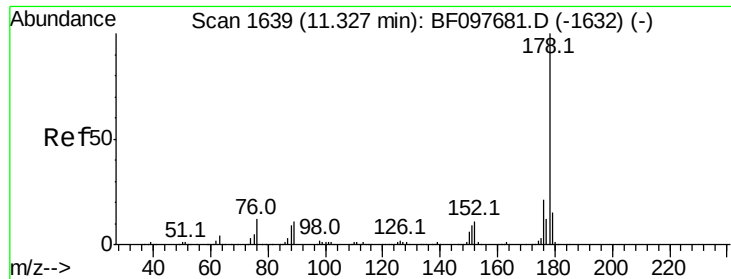


#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.27 min Scan# 1562  
Delta R.T. -0.03 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.0  | 9.4   | 14.2  |
| 80      | 12.8  | 10.2  | 15.2  |

Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0





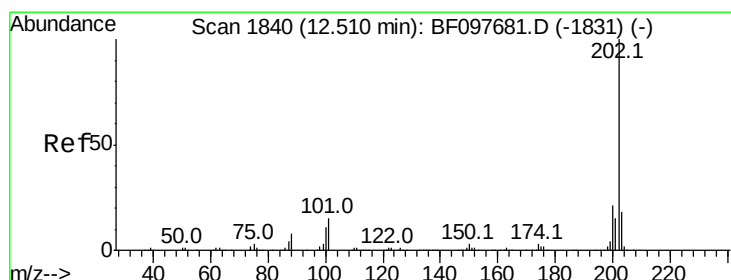
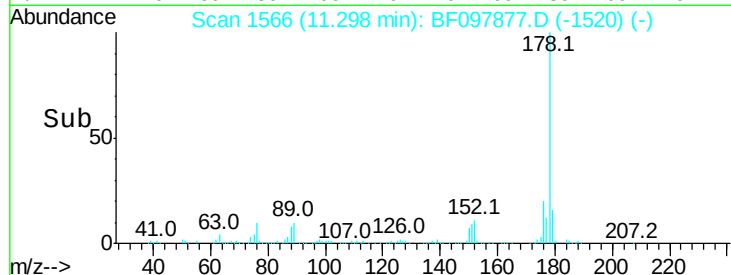
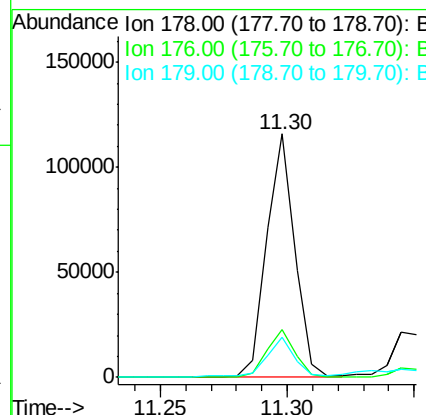
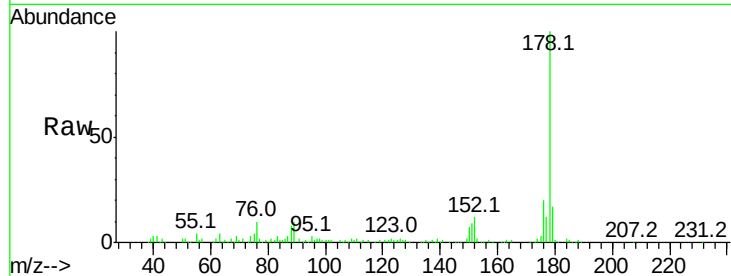
#70  
 Phenanthrene  
 Concen: 3.484 ng  
 RT: 11.30 min Scan# 1566  
 Delta R.T. -0.03 min  
 Lab File: BF097877.D  
 Acq: 19 Aug 2017 14:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PI-2(3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 16.2  | 24.4  |
| 179     | 16.5  | 12.6  | 19.0  |

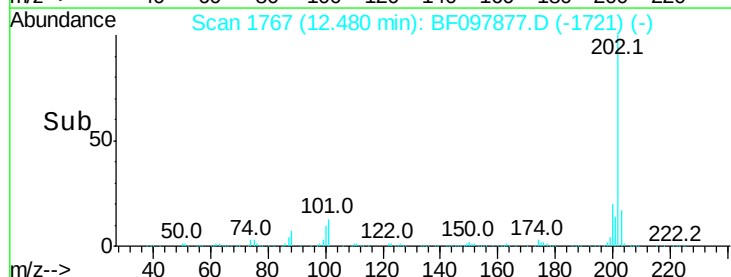
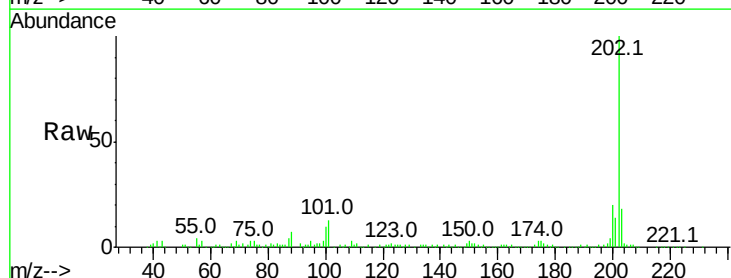
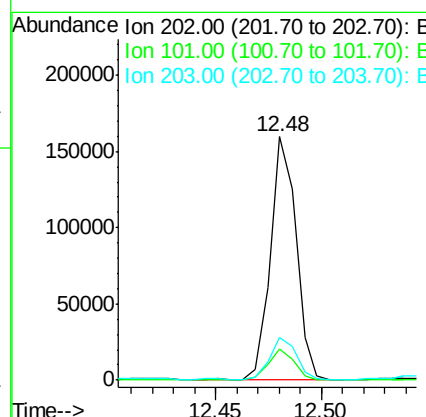
Manual Integrations  
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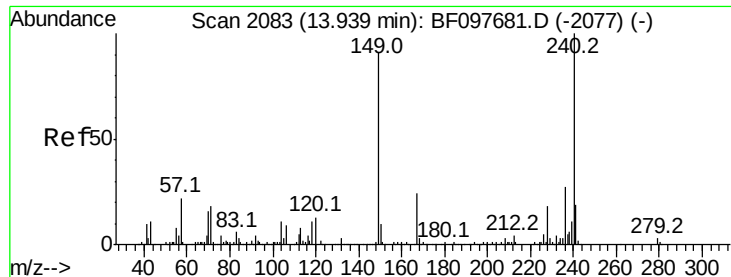


#74  
 Fluoranthene  
 Concen: 5.055 ng  
 RT: 12.48 min Scan# 1767  
 Delta R.T. -0.03 min  
 Lab File: BF097877.D  
 Acq: 19 Aug 2017 14:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.9  | 0.0   | 33.2  |
| 203     | 17.7  | 0.0   | 38.1  |







#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2009

Delta R.T. -0.04 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA\_F

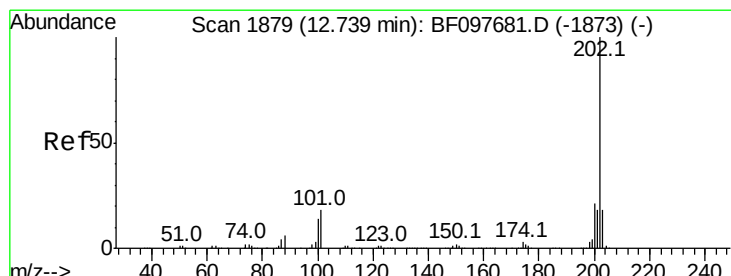
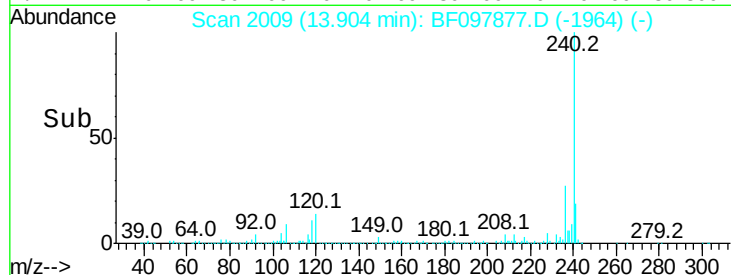
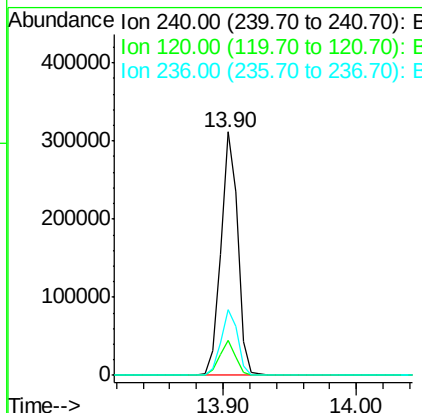
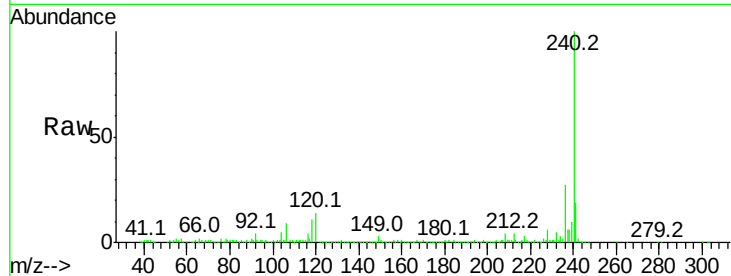
ClientSampleId :

PI-2(3)

Tot Ion:240 Resp: 279779  
 Ion Ratio Lower Upper  
 240 100  
 120 14.2 5.8 8.8#  
 236 26.8 20.5 30.7

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 8/21/2017 5:19:52 PM



#77

Pyrene

Concen: 5.624 ng

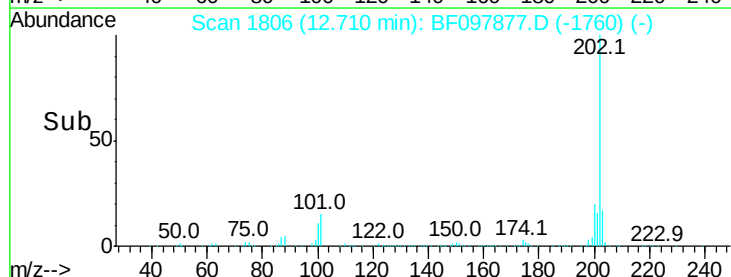
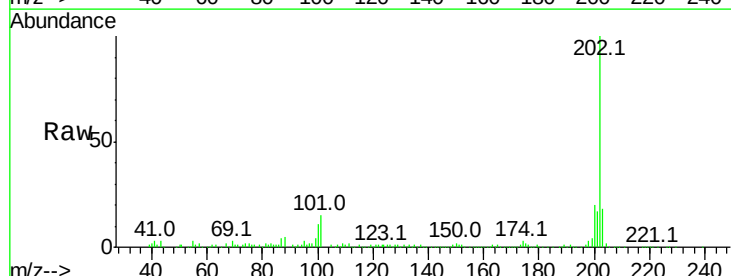
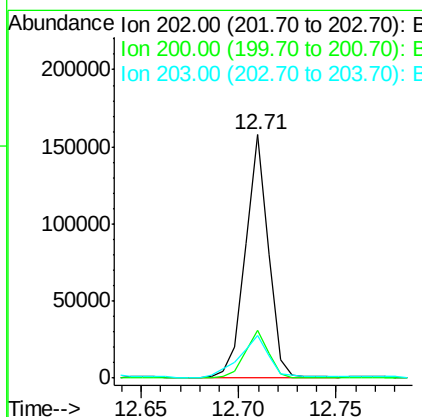
RT: 12.71 min Scan# 1806

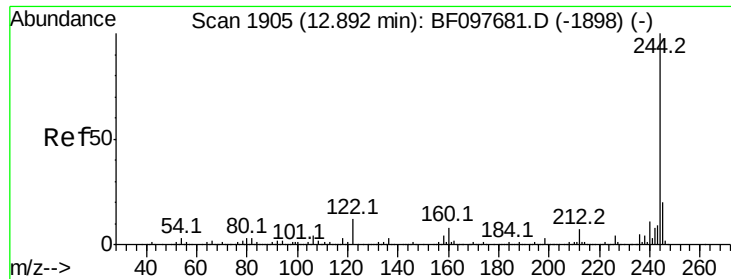
Delta R.T. -0.03 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Tgt Ion:202 Resp: 128699  
 Ion Ratio Lower Upper  
 202 100  
 200 19.9 17.6 26.4  
 203 17.5 14.4 21.6





#78

Terphenyl-d14

Concen: 88.313 ng

RT: 12.87 min Scan# 1833

Delta R.T. -0.02 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA\_F

ClientSampled :

PI-2(3)

Tot Ion:244 Resp: 1184851

Ion Ratio Lower Upper

244 100

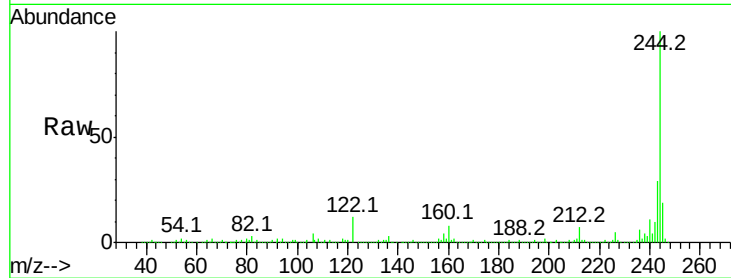
212 7.4 6.0 9.0

122 11.7 10.3 15.5

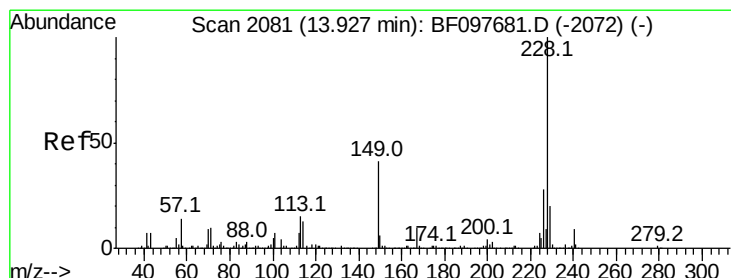
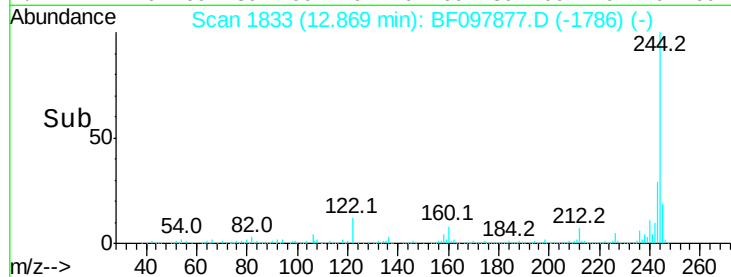
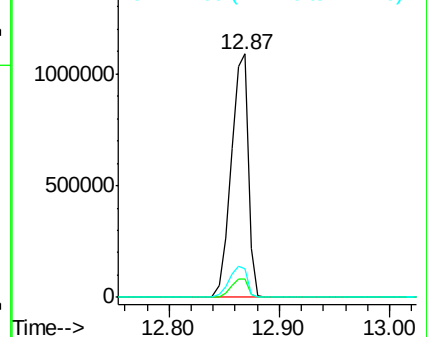
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8/21/2017 5:19:52 PM



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.277 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.04 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

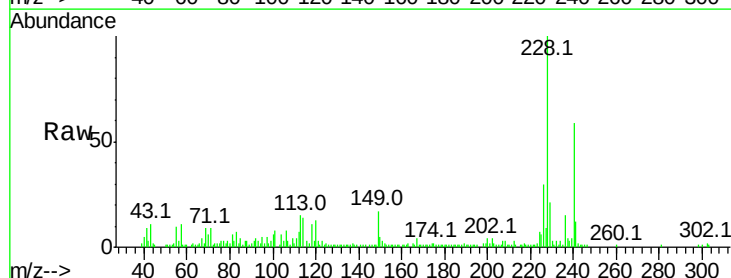
Tgt Ion:228 Resp: 54951

Ion Ratio Lower Upper

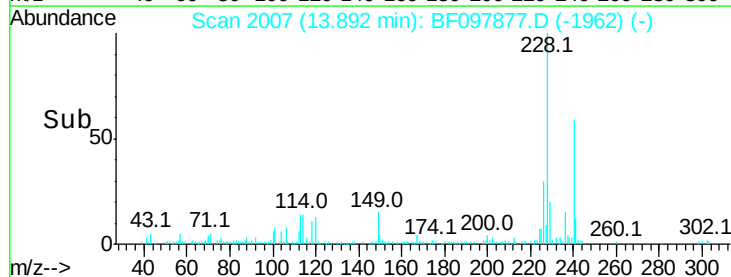
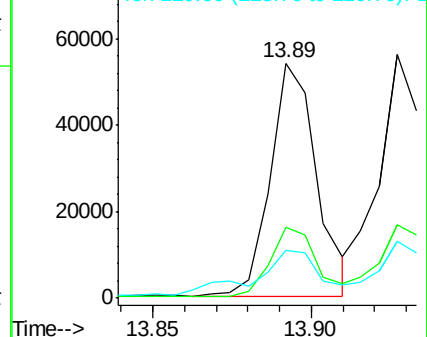
228 100

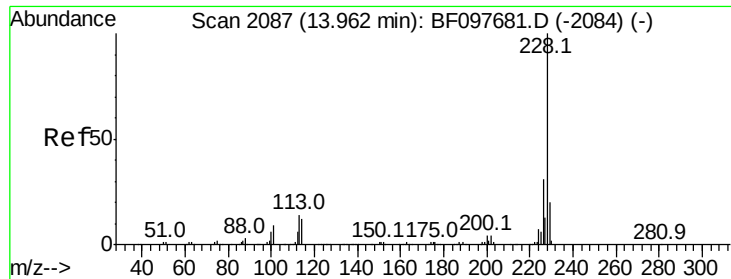
226 29.9 22.6 33.8

229 20.6 16.3 24.5



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





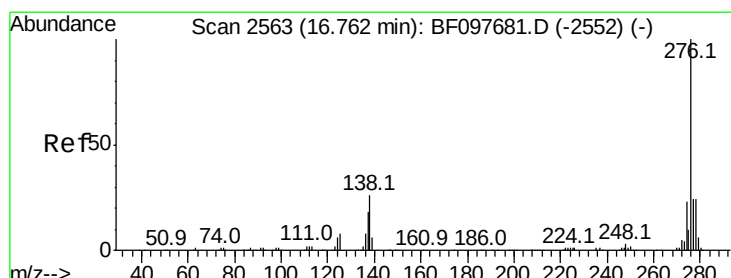
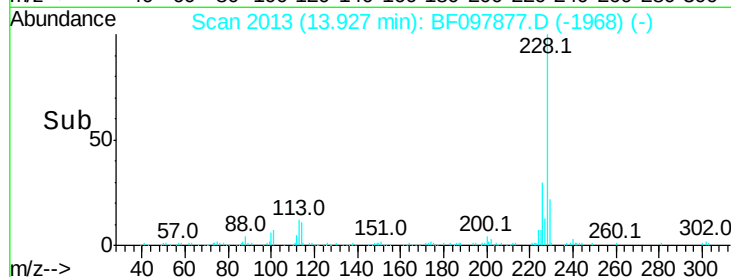
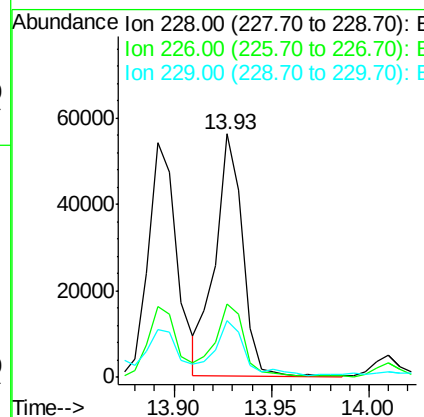
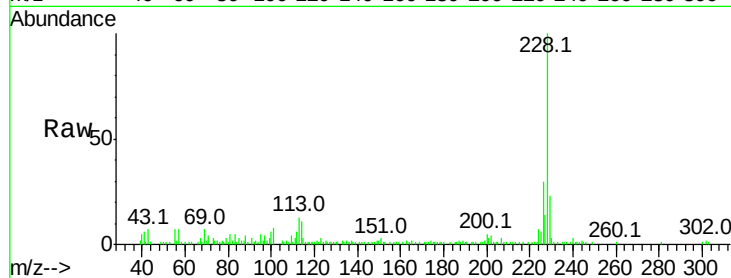
#82  
Chrysene  
Concen: 3.282 ng  
RT: 13.93 min Scan# 2013  
Delta R.T. -0.04 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

Instrument :  
BNA\_F  
ClientSampled :  
PI-2(3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 24.9  | 37.3  |
| 229     | 23.1  | 15.8  | 23.6  |

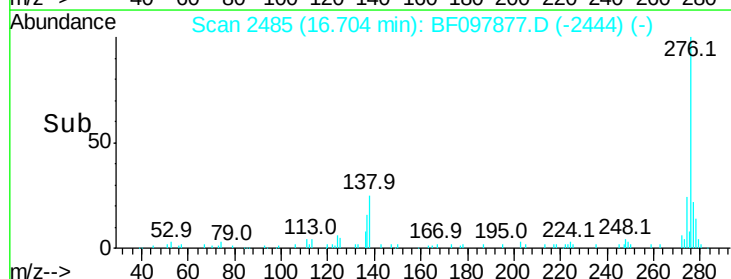
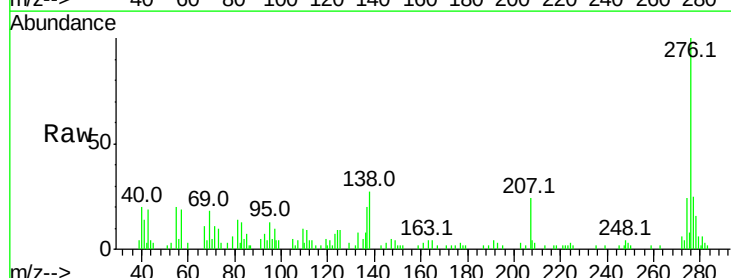
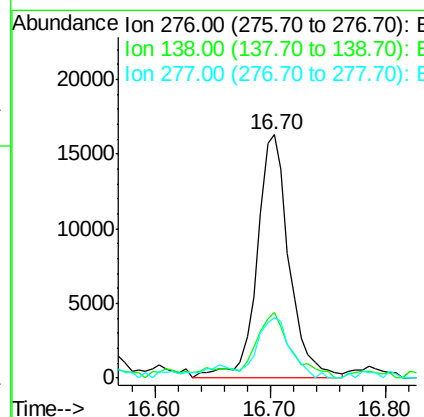
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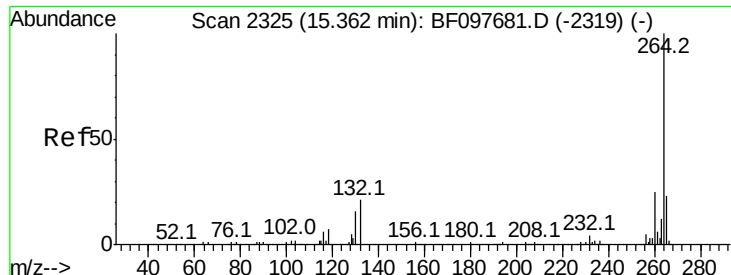
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8/21/2017 5:19:52 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.594 ng  
RT: 16.70 min Scan# 2485  
Delta R.T. -0.06 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.1  | 27.8  | 41.6  |
| 277     | 25.7  | 20.2  | 30.4  |





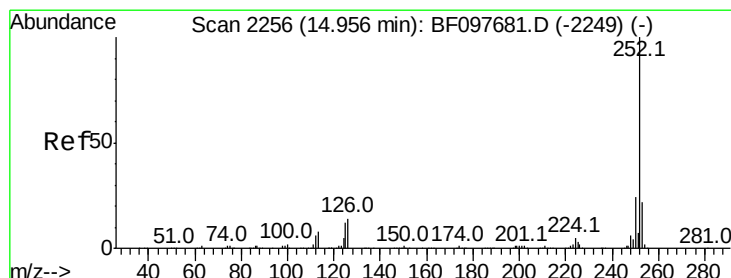
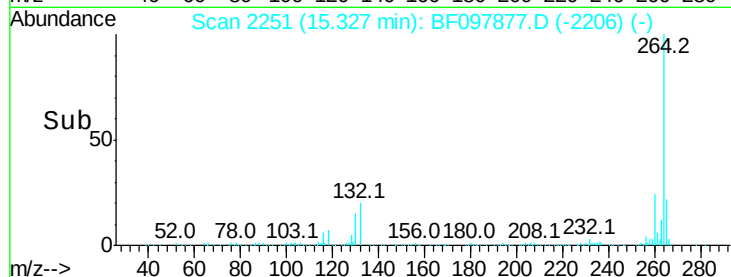
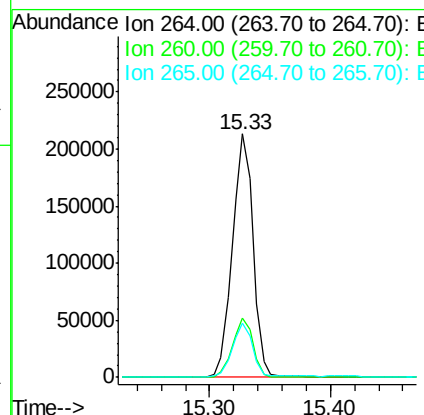
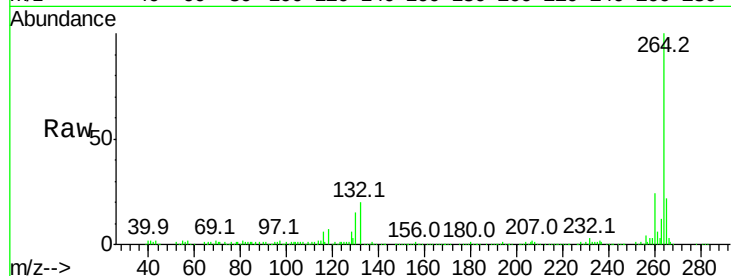
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.33 min Scan# 2251  
Delta R.T. -0.04 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

Instrument :  
BNA\_F  
ClientSampled :  
PI-2(3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.5  | 29.3  |
| 265     | 22.2  | 17.2  | 25.8  |

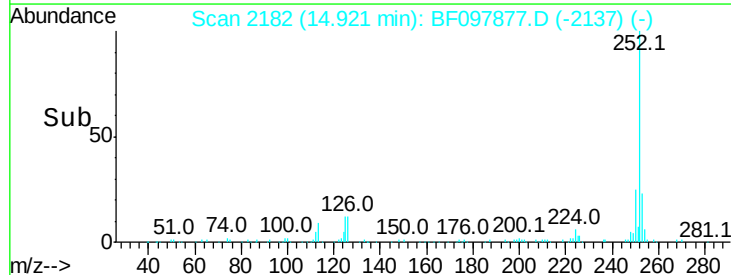
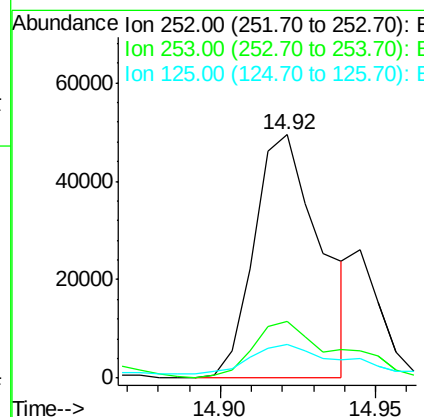
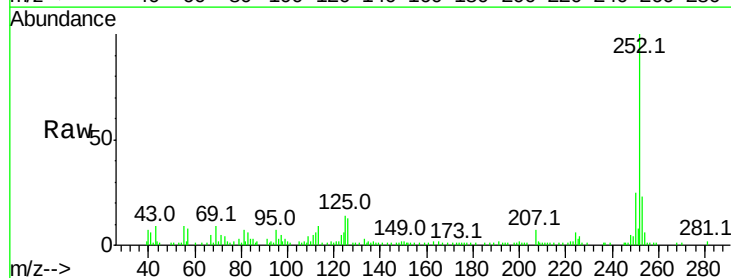
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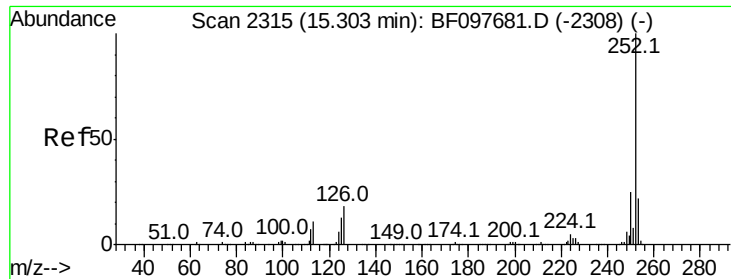
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8/21/2017 5:19:52 PM



#87  
Benzo(b)fluoranthene  
Concen: 4.563 ng m  
RT: 14.92 min Scan# 2182  
Delta R.T. -0.04 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.1  | 27.1  |
| 125     | 13.9  | 9.8   | 14.8  |





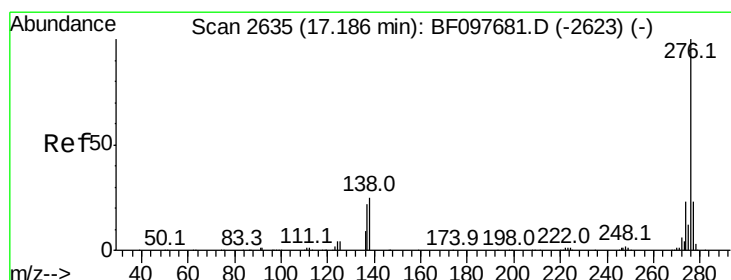
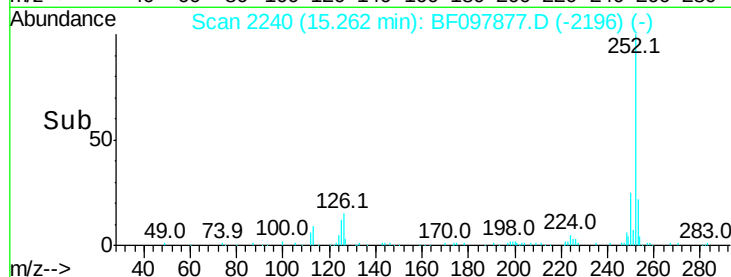
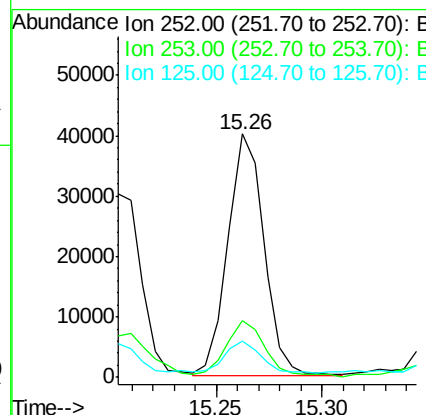
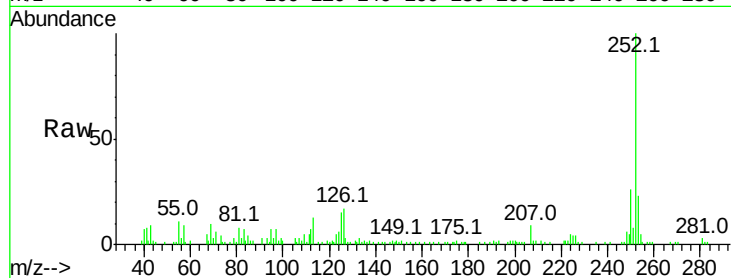
#89  
Benzo(a)pyrene  
Concen: 3.351 ng  
RT: 15.26 min Scan# 2240  
Delta R.T. -0.04 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

Instrument :  
BNA\_F  
ClientSampled :  
PI-2(3)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 47848 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 17.5  | 26.3  |
| 125       | 14.8  | 11.0  | 16.4  |

Manual Integrations  
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8/21/2017 5:19:52 PM



#91  
Benzo(g,h,i)perylene  
Concen: 2.420 ng  
RT: 17.12 min Scan# 2556  
Delta R.T. -0.06 min  
Lab File: BF097877.D  
Acq: 19 Aug 2017 14:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 29354 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.6  | 18.6  | 28.0  |
| 138       | 22.3  | 25.4  | 38.0# |

