

Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\  
 Data File : BF097930.D  
 Acq On : 22 Aug 2017 2:49  
 Operator : SJ/JU  
 Sample : I4898-01 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-08-081817-A

Manual Integrations  
 APPROVED

Sohil  
 8/22/2017 5:45:26 PM

Quant Time: Aug 22 06:57:34 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   | 6.75  | 152  | 109099   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.03  | 136  | 382487   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.79  | 164  | 142867   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.27 | 188  | 257076   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.90 | 240  | 227801   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.32 | 264  | 157523   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.35  | 112  | 406393   | 56.66 | ng    | 0.00     |
| 7) Phenol-d6                | 6.38  | 99   | 510517   | 52.39 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 288962   | 41.04 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 64588    | 52.10 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.11  | 172  | 360704   | 37.09 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.85 | 244  | 283600   | 25.96 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 49) Dimethylphthalate       | 9.50  | 163  | 85379    | 8.176 | ng    | 99       |
| 70) Phenanthrene            | 11.29 | 178  | 28231    | 2.061 | ng    | 99       |
| 74) Fluoranthene            | 12.47 | 202  | 48898    | 3.420 | ng    | 98       |
| 77) Pyrene                  | 12.70 | 202  | 51166    | 2.746 | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.92 | 252  | 21124m   | 2.127 | ng    |          |

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

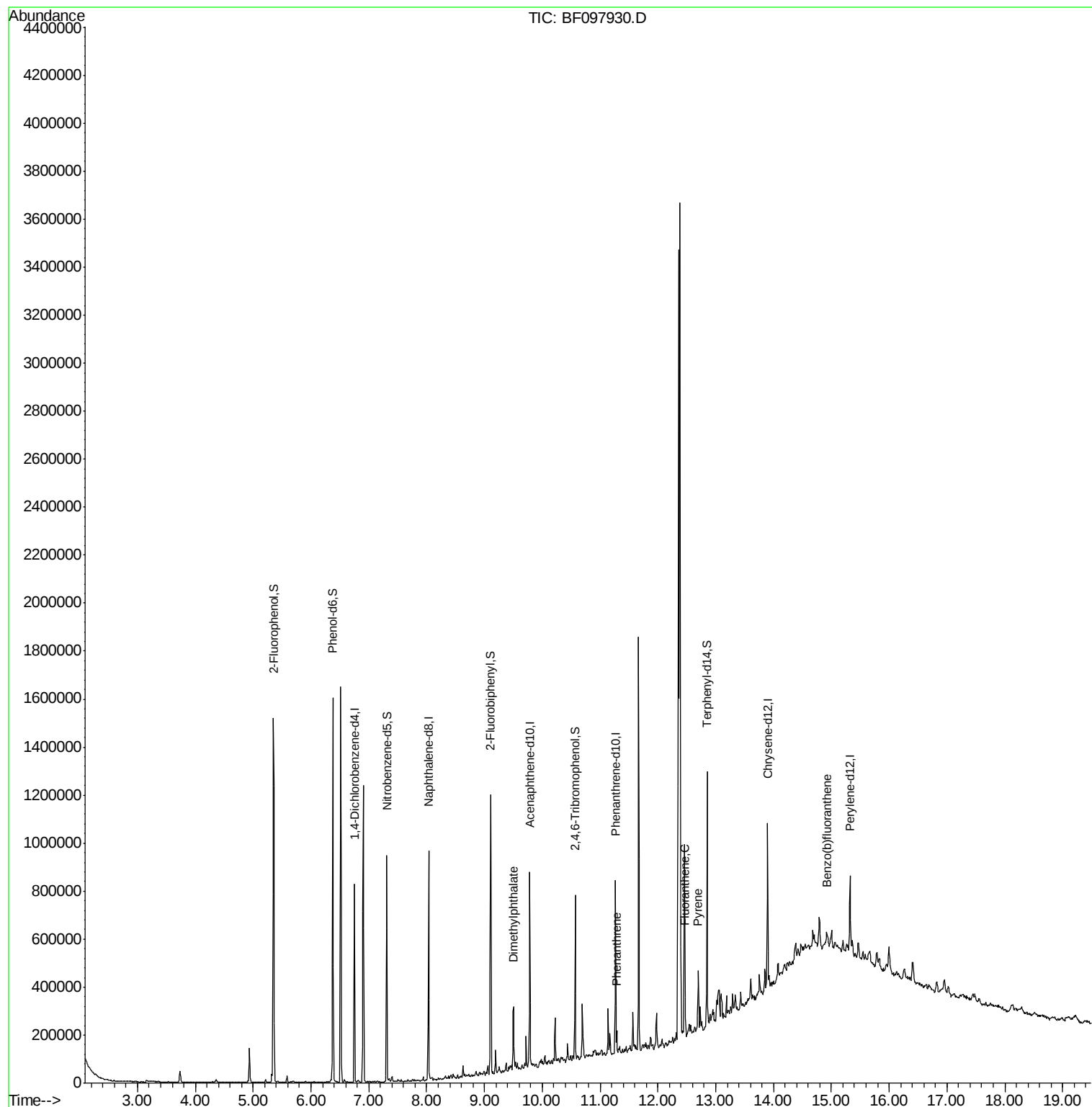
Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\  
Data File : BF097930.D  
Acq On : 22 Aug 2017 2:49  
Operator : SJ/JU  
Sample : I4898-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

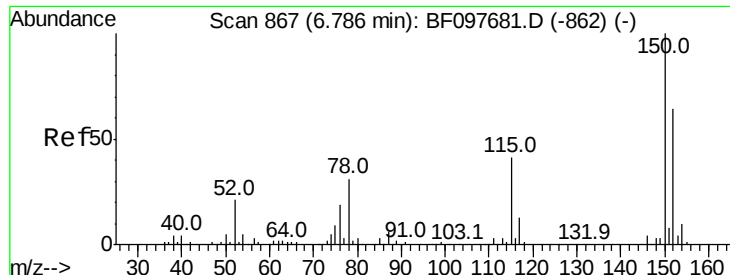
Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-081817-A

Manual Integrations  
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8/22/2017 5:45:26 PM

Quant Time: Aug 22 06:57:34 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

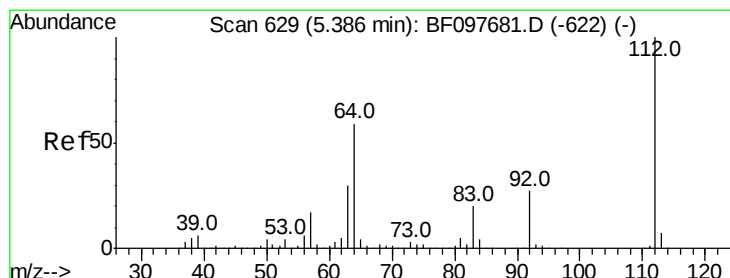
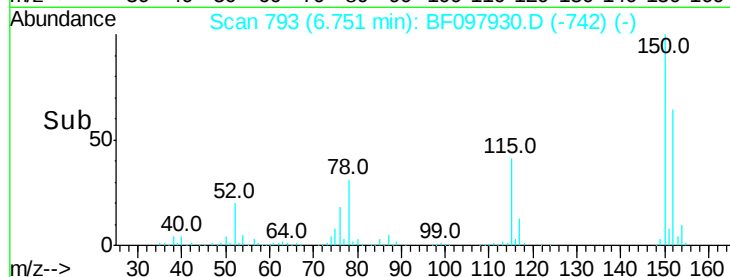
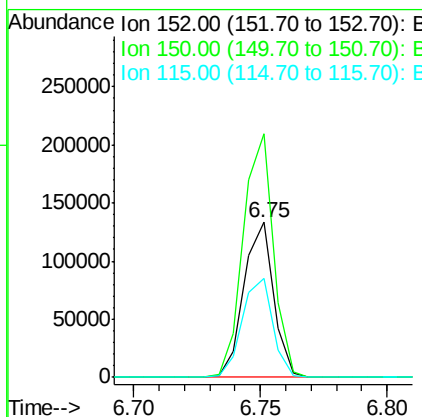
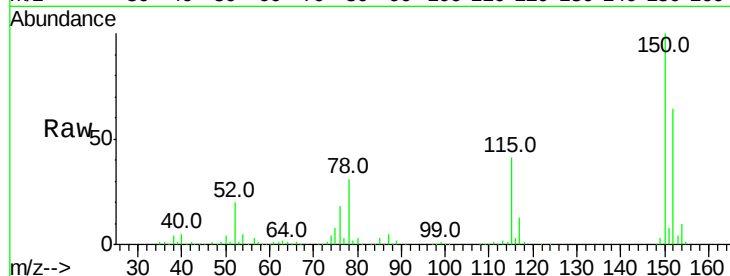
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.75 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: BF097930.D  
Acq: 22 Aug 2017 2:49

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-081817-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.3 | 126.2 | 189.2 |
| 115     | 64.1  | 52.2  | 78.2  |

Manual Integrations  
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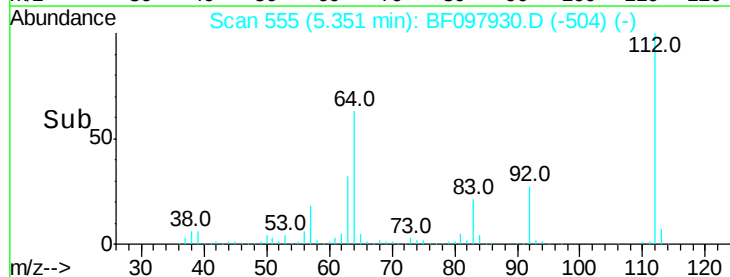
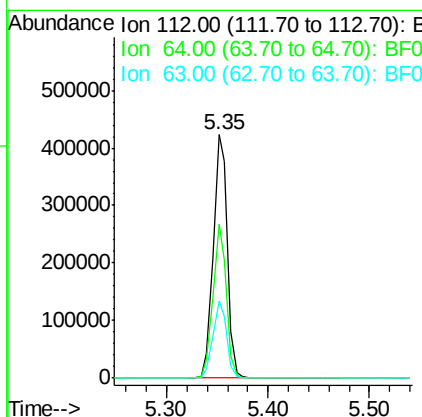
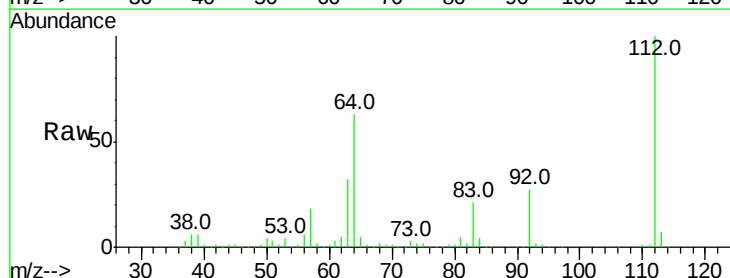
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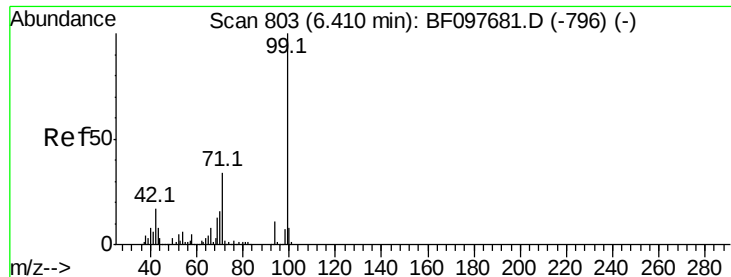


#5

2-Fluorophenol  
Concen: 56.660 ng  
RT: 5.35 min Scan# 555  
Delta R.T. -0.00 min  
Lab File: BF097930.D  
Acq: 22 Aug 2017 2:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.1  | 46.0  | 69.0  |
| 63      | 31.9  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 52.386 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097930.D

Acq: 22 Aug 2017 2:49

Instrument :

BNA\_F

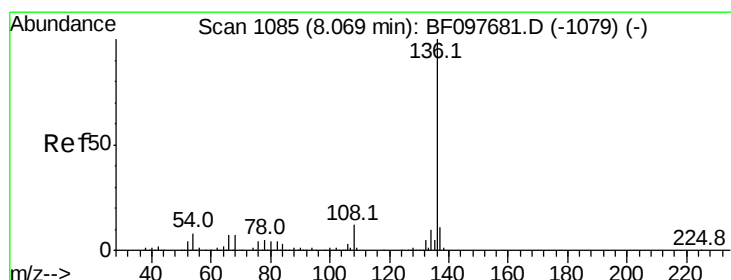
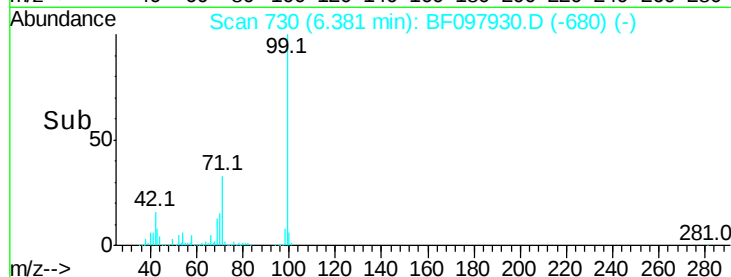
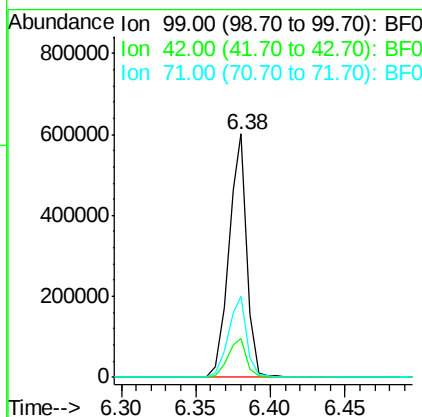
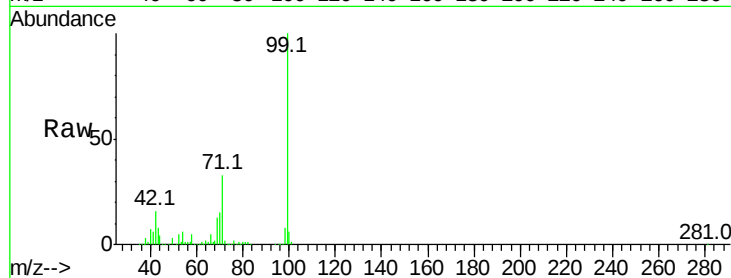
ClientSampleId :

NB-08-081817-A

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 510517 |       |       |
| 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

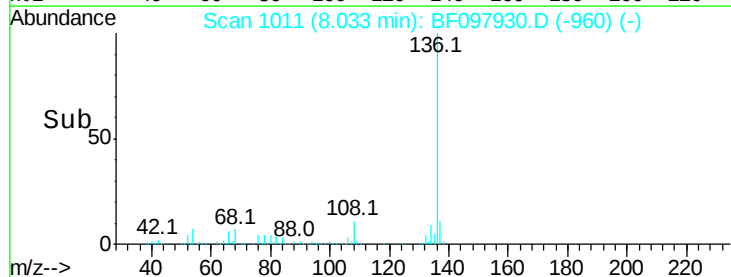
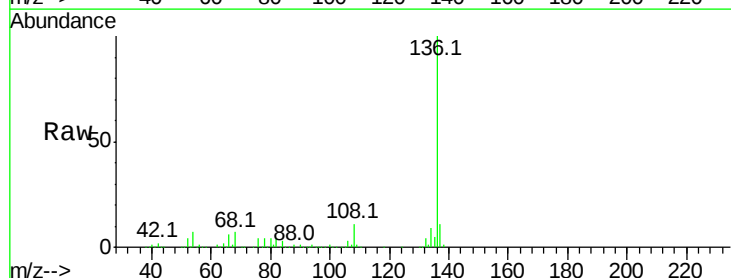
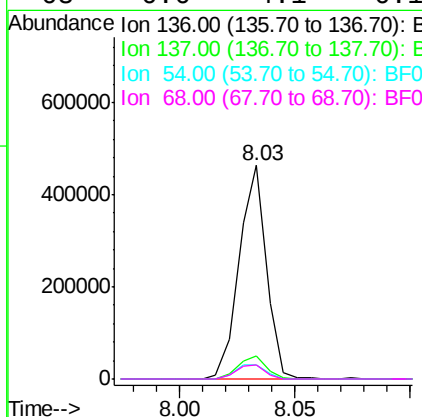
RT: 8.03 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BF097930.D

Acq: 22 Aug 2017 2:49

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 382487 |       |       |
| 137     | 10.9 | 8.5   | 12.7   |       |       |
| 54      | 6.9  | 4.9   | 7.3    |       |       |
| 68      | 6.6  | 4.1   | 6.1#   |       |       |





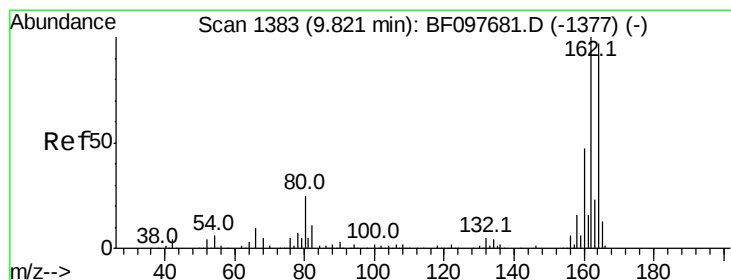
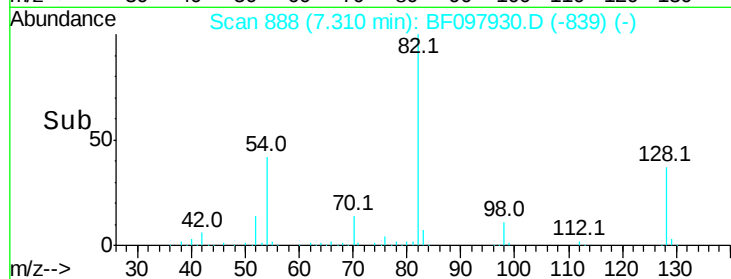
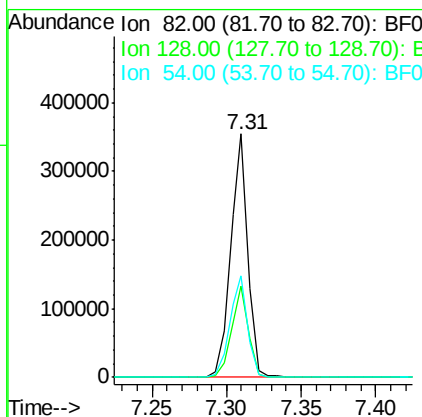
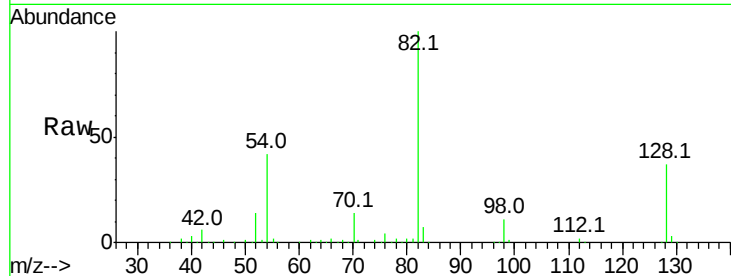
#23  
 Nitrobenzene-d5  
 Concen: 41.041 ng  
 RT: 7.31 min Scan# 888  
 Delta R.T. -0.01 min  
 Lab File: BF097930.D  
 Acq: 22 Aug 2017 2:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-08-081817-A

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 37.5  | 34.0       | 51.0  |
| 54      | 41.9  | 42.2       | 63.2# |

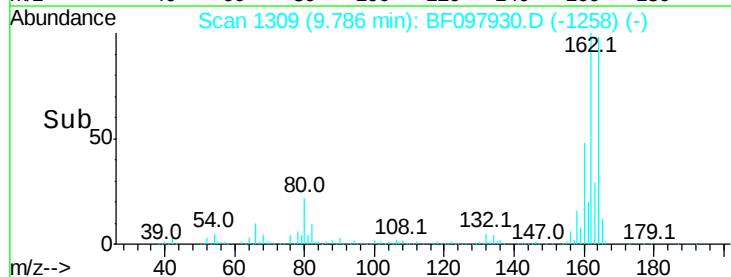
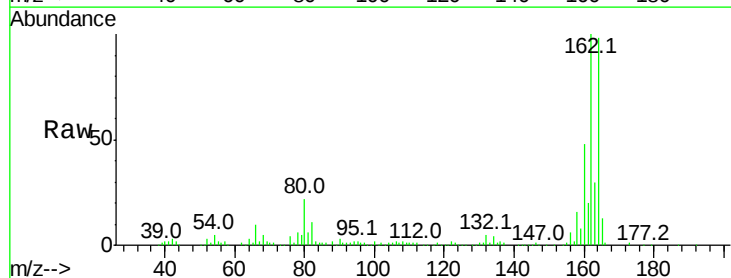
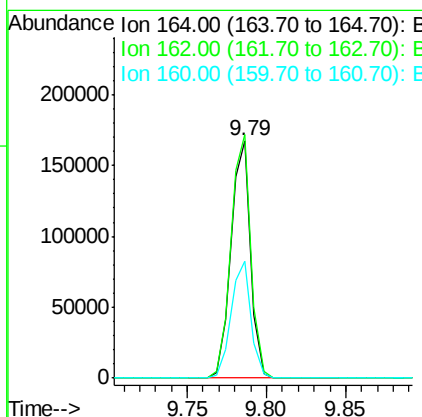
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.79 min Scan# 1309  
 Delta R.T. -0.00 min  
 Lab File: BF097930.D  
 Acq: 22 Aug 2017 2:49

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 164     | 100   |            |       |
| 162     | 102.4 | 82.6       | 123.8 |
| 160     | 49.1  | 36.2       | 54.2  |





#41

2,4,6-Tribromophenol

Concen: 52.104 ng

RT: 10.57 min Scan# 1442

Delta R.T. -0.01 min

Lab File: BF097930.D

Acq: 22 Aug 2017 2:49

Instrument :

BNA\_F

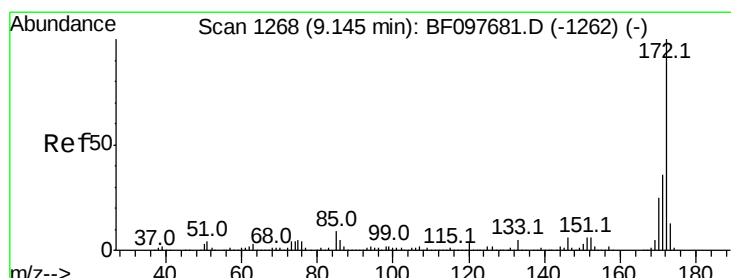
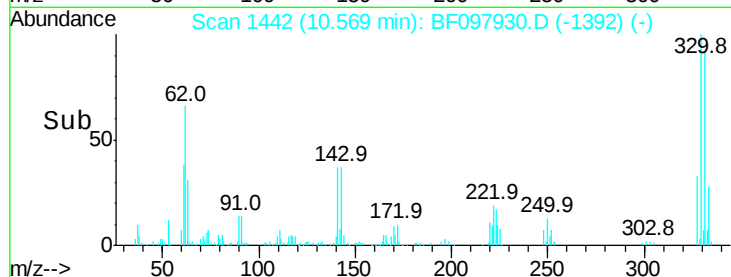
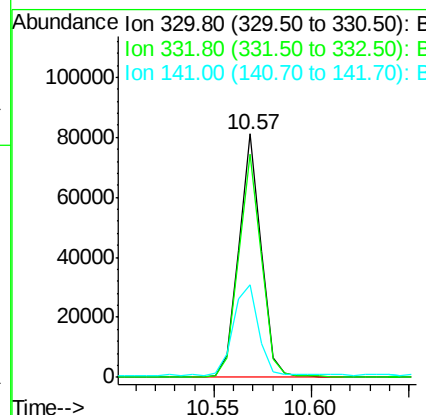
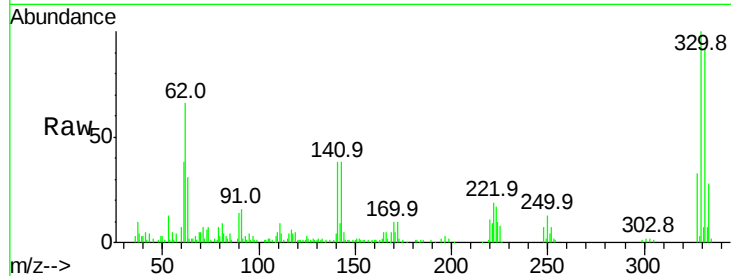
ClientSampleId :

NB-08-081817-A

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 64588 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 93.3  | 76.6  | 115.0 |
| 141       | 42.1  | 31.4  | 47.2  |

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#44

2-Fluorobiphenyl

Concen: 37.094 ng

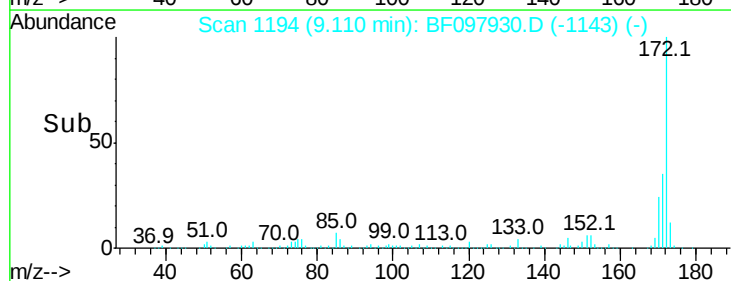
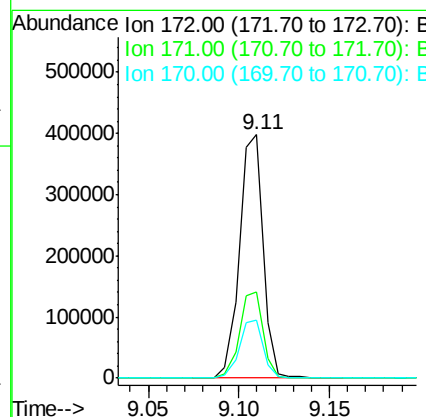
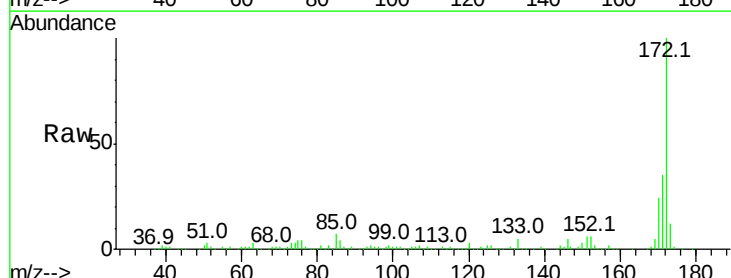
RT: 9.11 min Scan# 1194

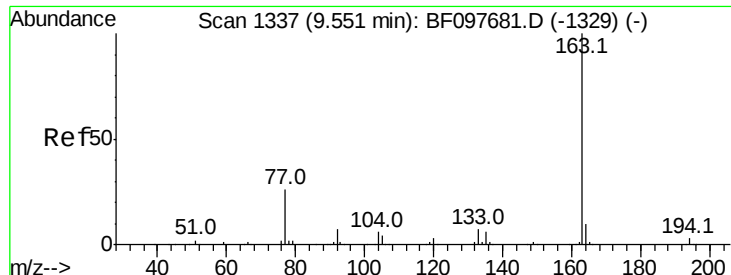
Delta R.T. -0.00 min

Lab File: BF097930.D

Acq: 22 Aug 2017 2:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 360704 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.3  | 29.6  | 44.4   |
| 170       | 23.9  | 19.8  | 29.8   |





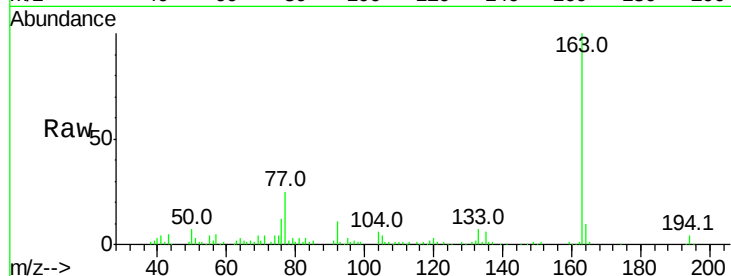
#49  
Dimethylphthalate  
Concen: 8.176 ng  
RT: 9.50 min Scan# 1261  
Delta R.T. -0.01 min  
Lab File: BF097930.D  
Acq: 22 Aug 2017 2:49

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-081817-A

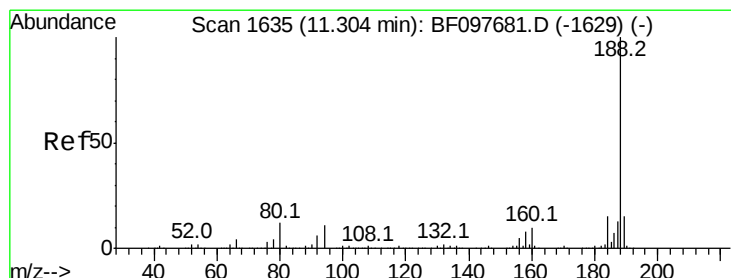
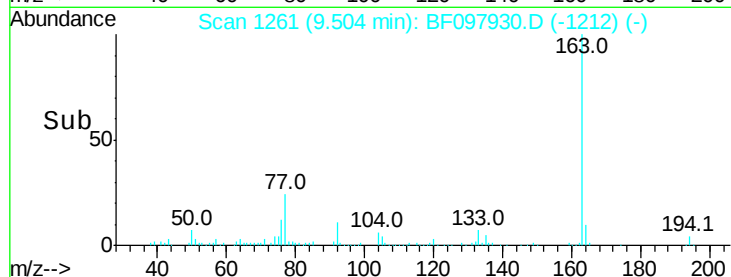
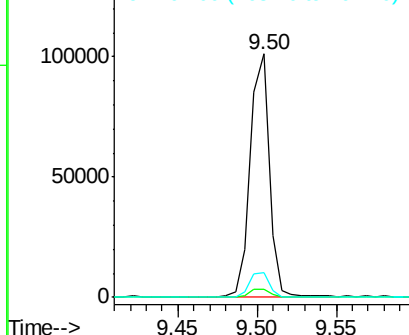
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.5   | 2.6   | 4.0   |
| 164     | 10.3  | 8.4   | 12.6  |

Manual Integrations  
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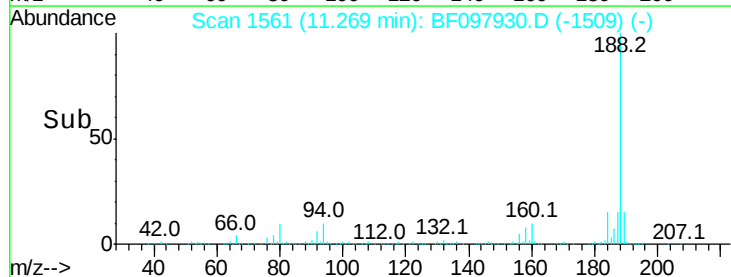
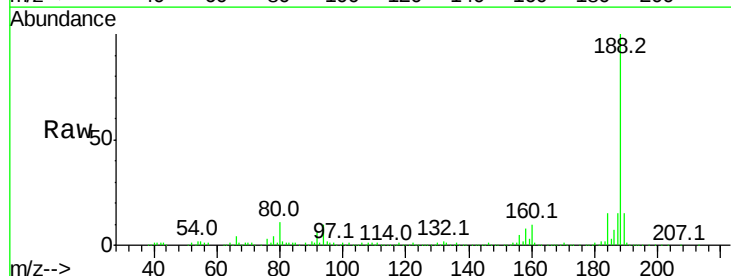
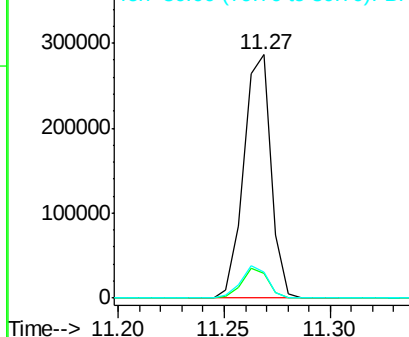
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Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

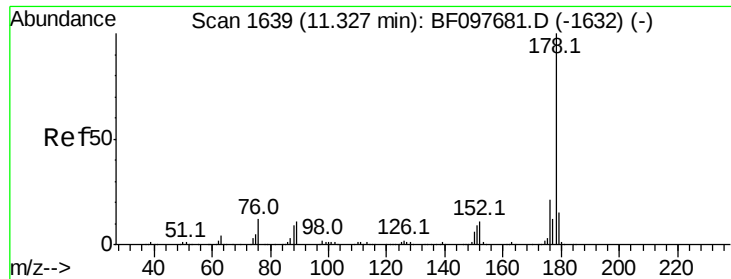


#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.27 min Scan# 1561  
Delta R.T. 0.01 min  
Lab File: BF097930.D  
Acq: 22 Aug 2017 2:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.2  | 9.4   | 14.2  |
| 80      | 10.7  | 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





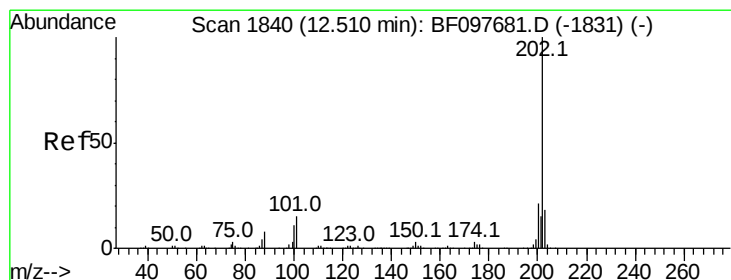
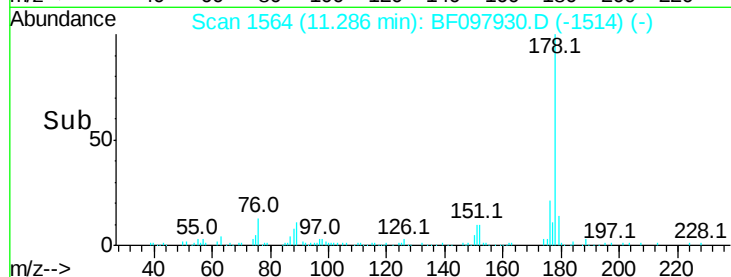
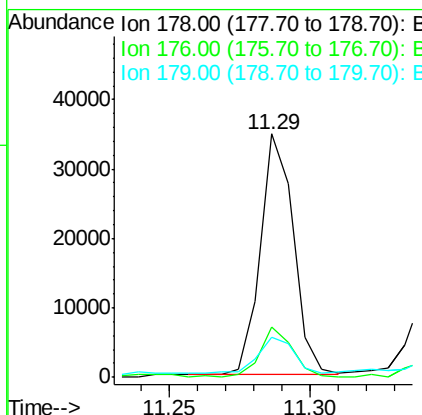
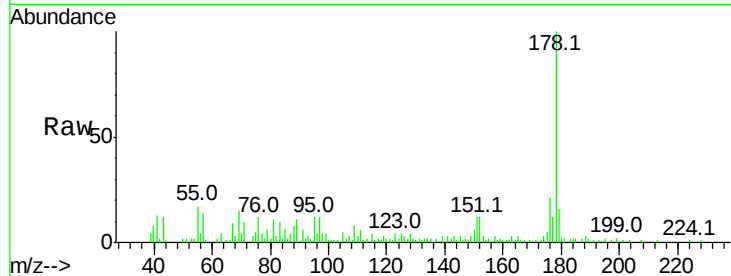
#70  
Phenanthrene  
Concen: 2.061 ng  
RT: 11.29 min Scan# 1564  
Delta R.T. -0.01 min  
Lab File: BF097930.D  
Acq: 22 Aug 2017 2:49

Instrument :  
BNA\_F  
ClientSampleId :  
NB-08-081817-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.9  | 16.2  | 24.4  |
| 179     | 16.2  | 12.6  | 19.0  |

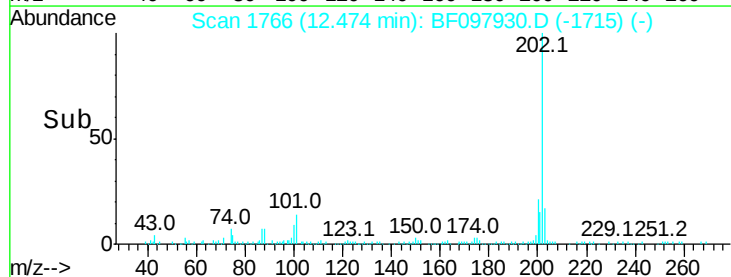
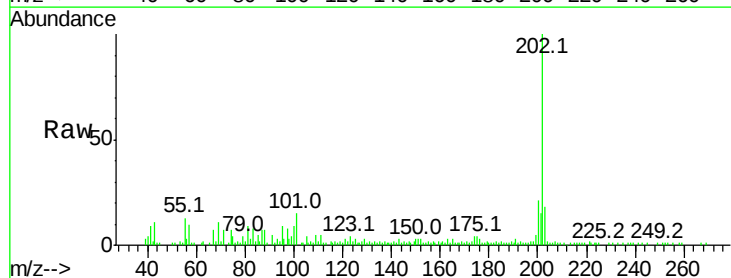
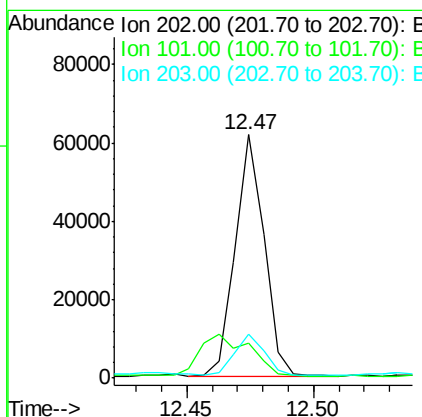
Manual Integrations  
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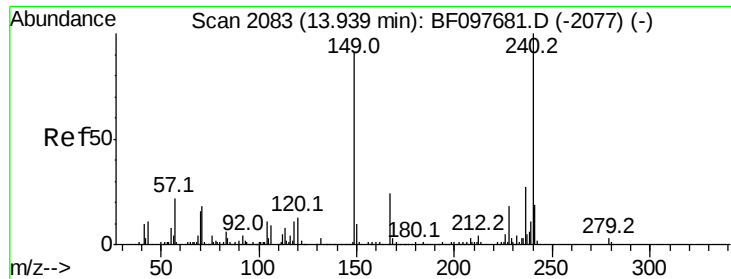
Sohil  
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#74  
Fluoranthene  
Concen: 3.420 ng  
RT: 12.47 min Scan# 1766  
Delta R.T. -0.00 min  
Lab File: BF097930.D  
Acq: 22 Aug 2017 2:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.6  | 0.0   | 33.2  |
| 203     | 18.3  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF097930.D

Acq: 22 Aug 2017 2:49

Instrument :

BNA\_F

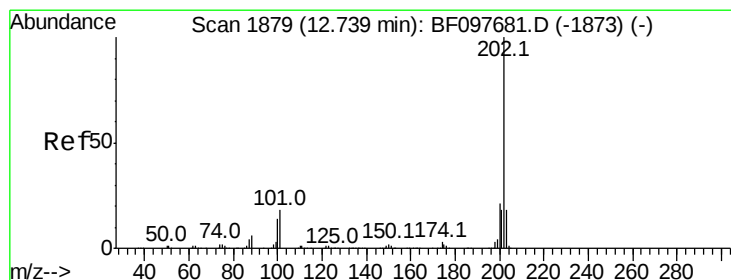
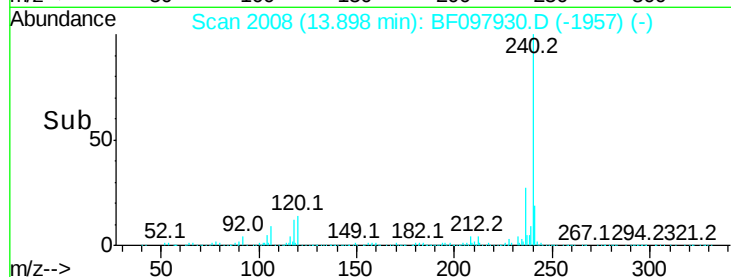
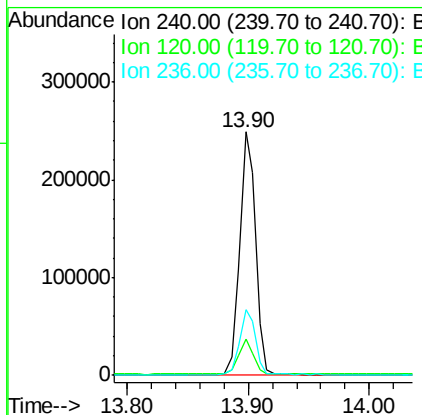
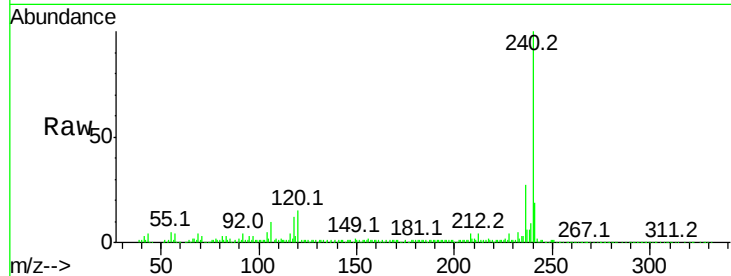
ClientSampleId :

NB-08-081817-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.7  | 5.8   | 8.8#  |
| 236     | 27.0  | 20.5  | 30.7  |

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8/22/2017 5:45:26 PM



#77

Pyrene

Concen: 2.746 ng

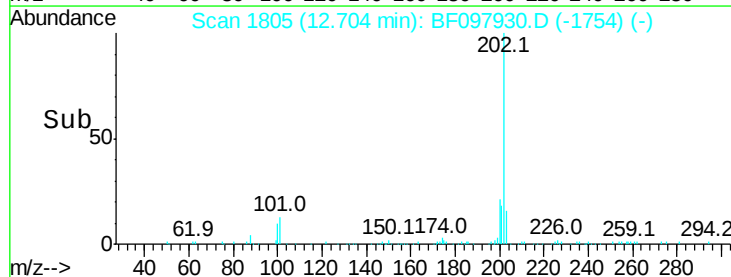
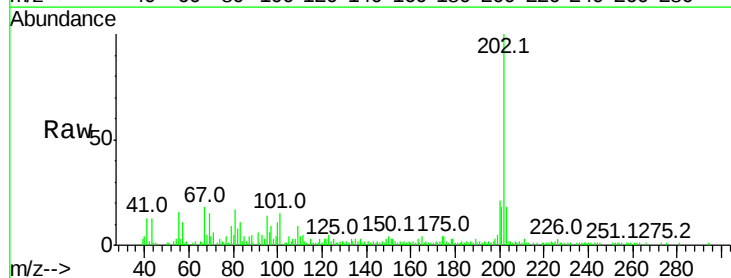
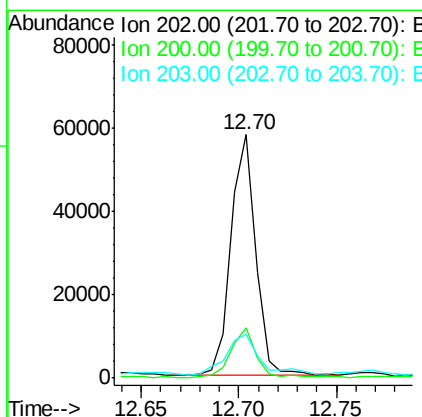
RT: 12.70 min Scan# 1805

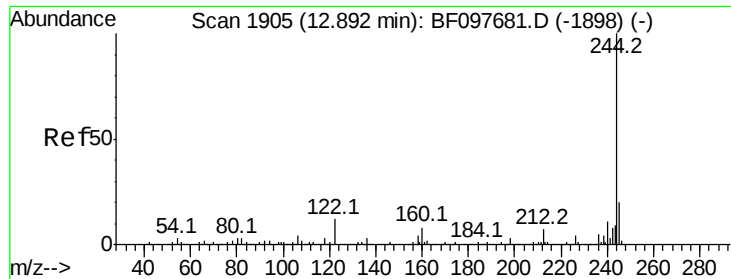
Delta R.T. -0.00 min

Lab File: BF097930.D

Acq: 22 Aug 2017 2:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.8  | 17.6  | 26.4  |
| 203     | 17.9  | 14.4  | 21.6  |





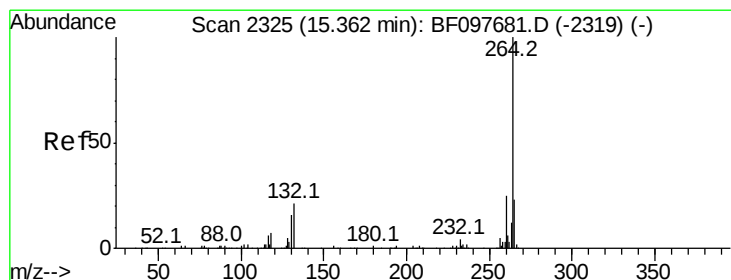
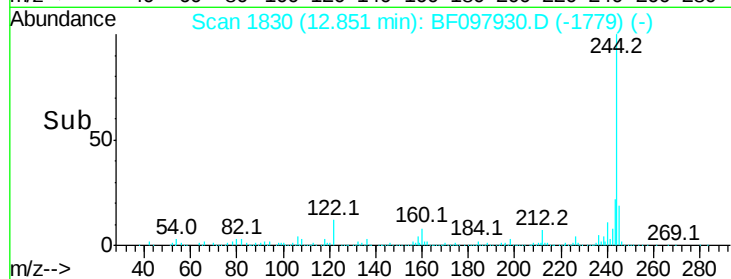
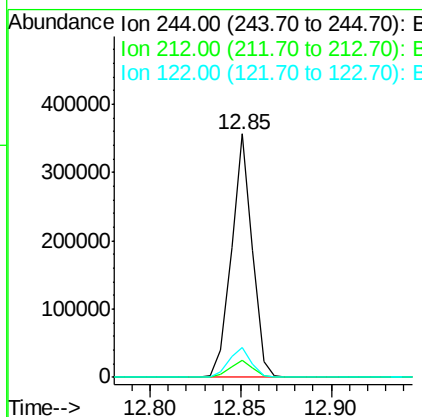
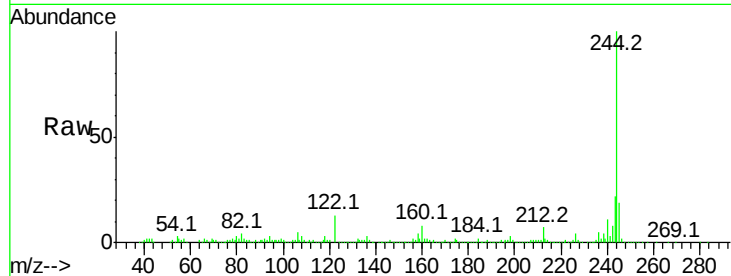
#78  
 Terphenyl-d14  
 Concen: 25.961 ng  
 RT: 12.85 min Scan# 1830  
 Delta R.T. -0.00 min  
 Lab File: BF097930.D  
 Acq: 22 Aug 2017 2:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-08-081817-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 6.0   | 9.0   |
| 122     | 12.5  | 10.3  | 15.5  |

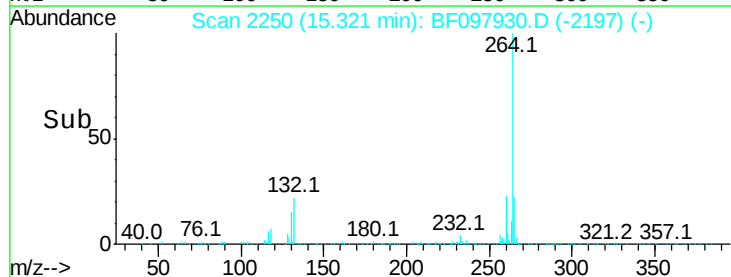
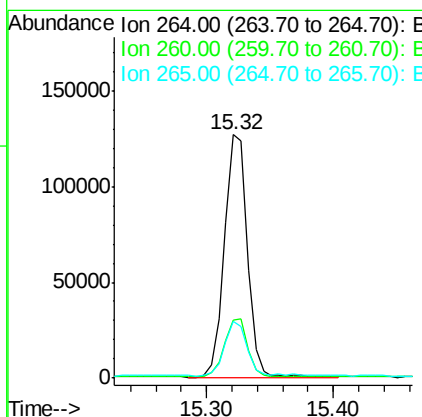
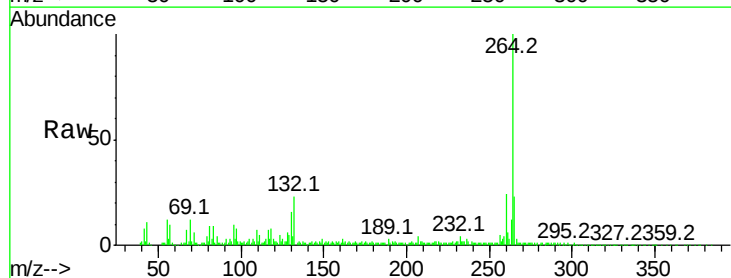
Manual Integrations  
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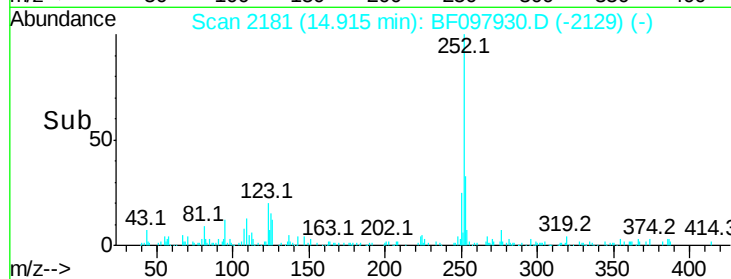
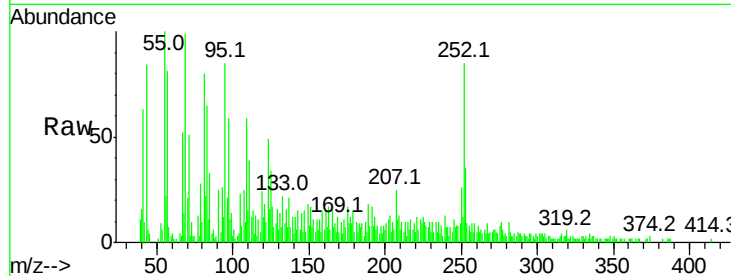
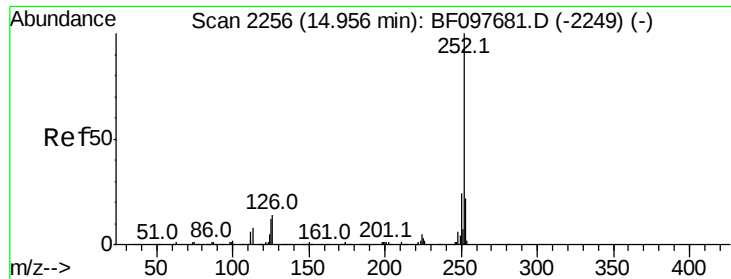
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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.32 min Scan# 2250  
 Delta R.T. 0.01 min  
 Lab File: BF097930.D  
 Acq: 22 Aug 2017 2:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.5  | 29.3  |
| 265     | 23.2  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 2.127 ng/mL

RT: 14.92 min Scan# 2181

Delta R.T. 0.01 min

Lab File: BF097930.D

Acq: 22 Aug 2017 2:49

Instrument :

BNA\_F

ClientSampleId :

NB-08-081817-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 41.5  | 18.1  | 27.1# |
| 125     | 40.4  | 9.8   | 14.8# |

Manual Integrations  
APPROVED

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8/22/2017 5:45:26 PM

