

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062719\  
 Data File : BF115253.D  
 Acq On : 28 Jun 2019 00:01  
 Operator : HP/JU  
 Sample : K3507-03  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-07-062619-B

Manual Integrations  
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 6/28/2019 2:58:46 PM

Quant Time: Jun 28 07:19:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 05:26:43 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.60  | 152  | 217815   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.88  | 136  | 816041   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.62  | 164  | 408308   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.10 | 188  | 815647   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.71 | 240  | 650221   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.08 | 264  | 581604   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.19  | 112  | 1056820  | 74.87 | ng    | 0.00     |
| 7) Phenol-d6                | 6.23  | 99   | 1348728  | 78.73 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.15  | 82   | 782747   | 59.01 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.40 | 330  | 369603   | 85.84 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 8.95  | 172  | 1564518  | 65.09 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.68 | 244  | 1888782  | 61.76 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.35  | 163  | 297999   | 9.920 | ng    | 99       |
| 71) Phenanthrene            | 11.11 | 178  | 173543   | 3.952 | ng    | 98       |
| 75) Fluoranthene            | 12.29 | 202  | 340101   | 7.762 | ng    | 96       |
| 78) Pyrene                  | 12.52 | 202  | 452792   | 9.061 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.70 | 228  | 288665   | 6.187 | ng    | 99       |
| 83) Chrysene                | 13.74 | 228  | 230296   | 5.389 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 14.70 | 252  | 236215m  | 6.509 | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.72 | 252  | 66380m   | 2.040 | ng    |          |
| 90) Benzo(a)pyrene          | 15.02 | 252  | 140396   | 4.292 | ng    | # 91     |

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

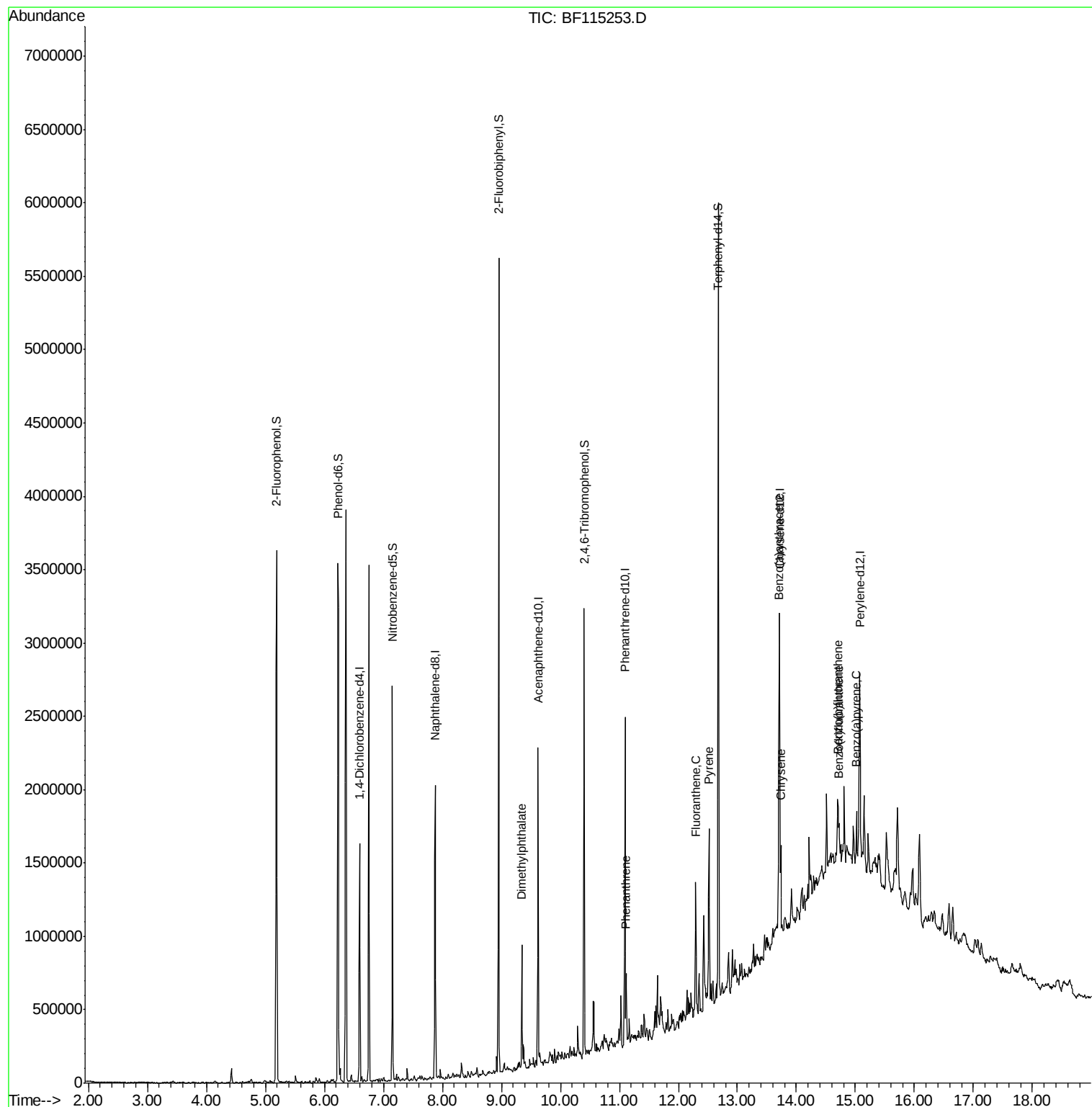
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062719\  
Data File : BF115253.D  
Acq On : 28 Jun 2019 00:01  
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Sample : K3507-03  
Misc :  
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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 28 05:26:43 2019  
Response via : Initial Calibration





#1

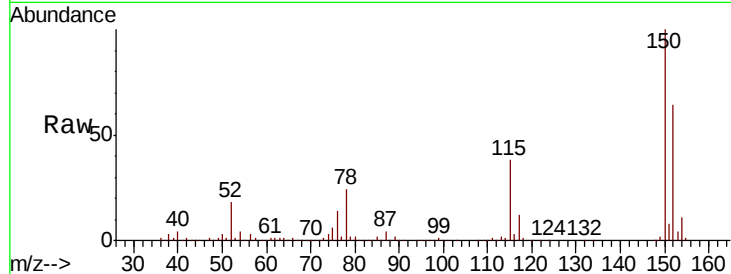
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.60 min Scan# 792  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-062619-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.1 | 124.2 | 186.2 |
| 115     | 58.6  | 46.1  | 69.1  |

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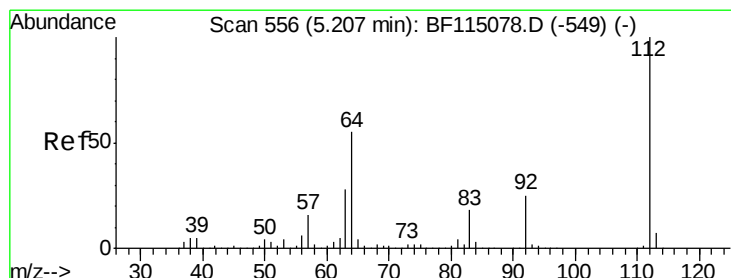
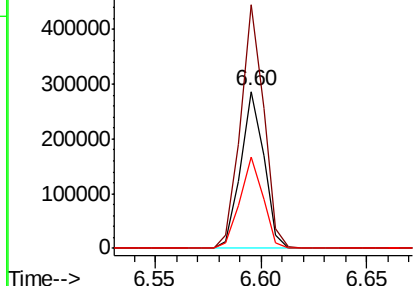
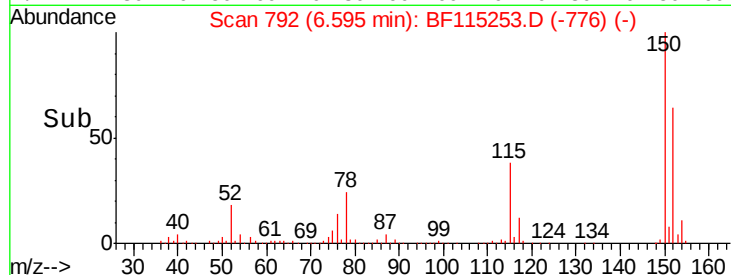


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

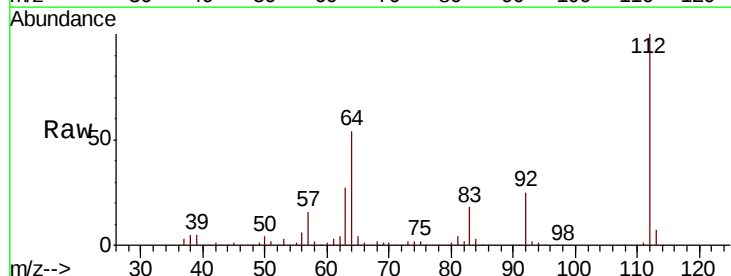
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 74.873 ng  
RT: 5.19 min Scan# 553  
Delta R.T. 0.00 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.7  | 43.8  | 65.6  |
| 63      | 27.1  | 22.2  | 33.4  |

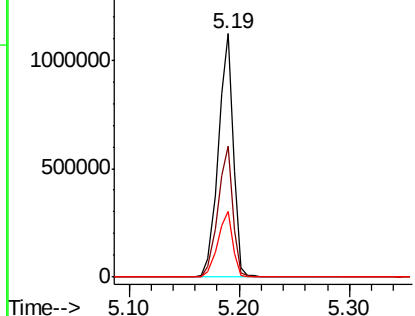
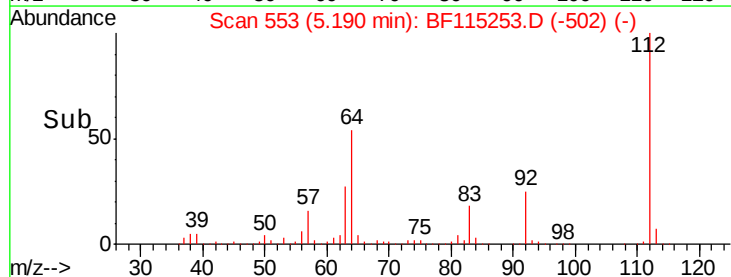


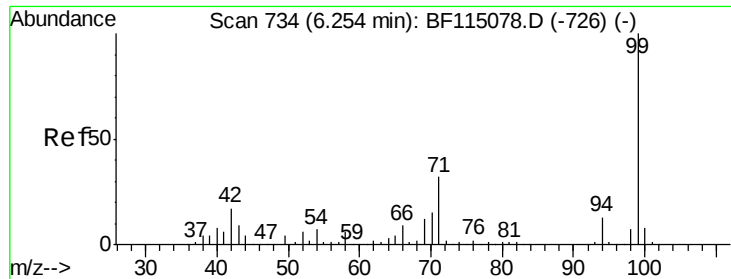
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 78.726 ng

RT: 6.23 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF115253.D

Acq: 28 Jun 2019 00:01

Instrument :

BNA\_F

ClientSampleId :

NB-07-062619-B

Tot Ion: 99 Resp: 1348728

Ion Ratio Lower Upper

99 100

42 16.7 13.6 20.4

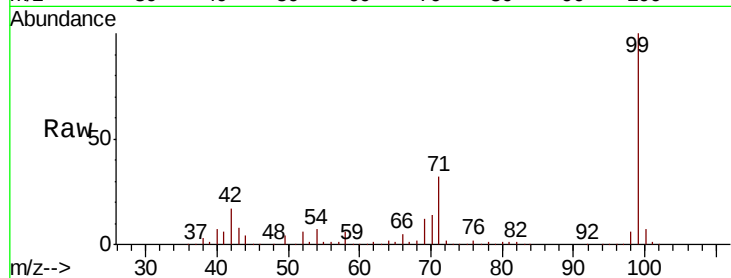
71 32.1 25.5 38.3

Manual Integrations

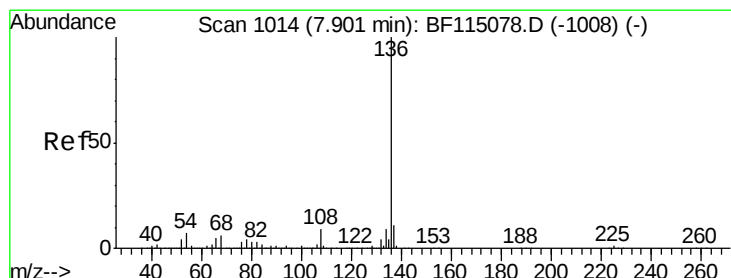
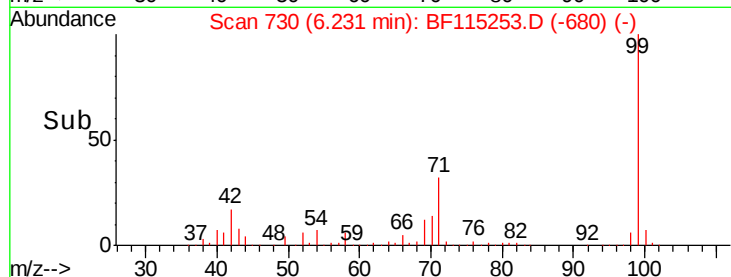
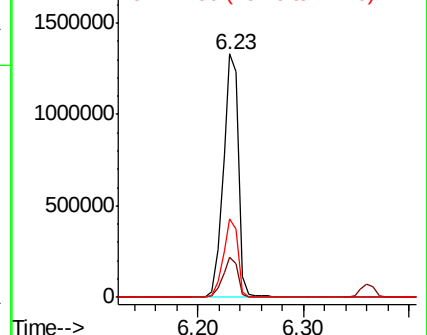
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.88 min Scan# 1010

Delta R.T. -0.01 min

Lab File: BF115253.D

Acq: 28 Jun 2019 00:01

Tgt Ion: 136 Resp: 816041

Ion Ratio Lower Upper

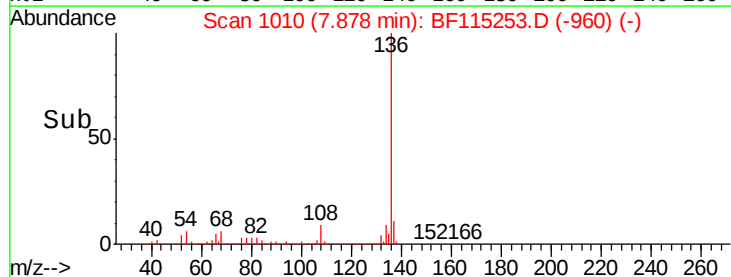
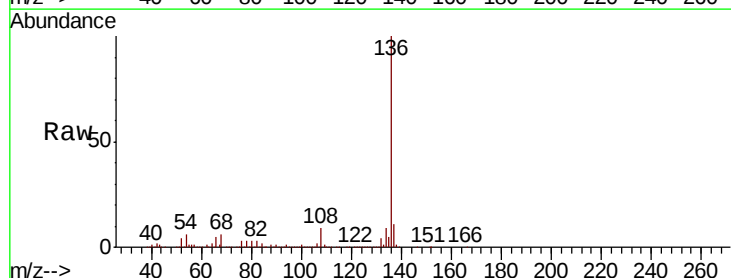
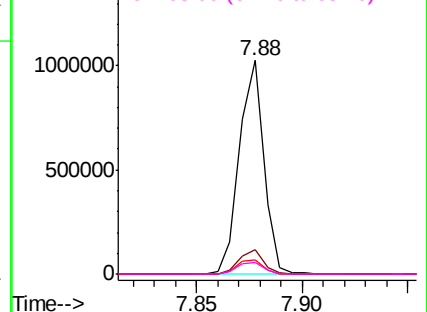
136 100

137 11.4 8.9 13.3

54 6.5 5.6 8.4

68 5.6 4.8 7.2

Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1





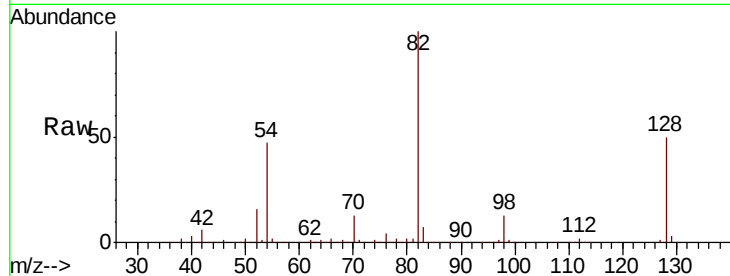
#23  
Nitrobenzene-d5  
Concen: 59.006 ng  
RT: 7.15 min Scan# 887  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-062619-B

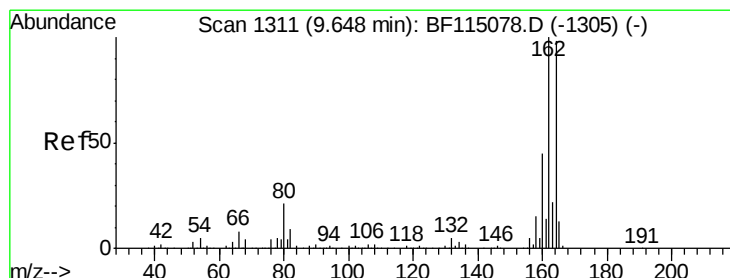
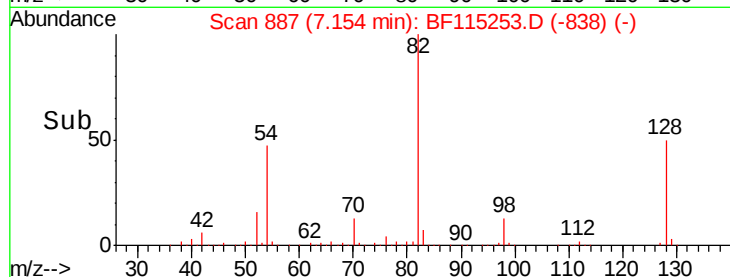
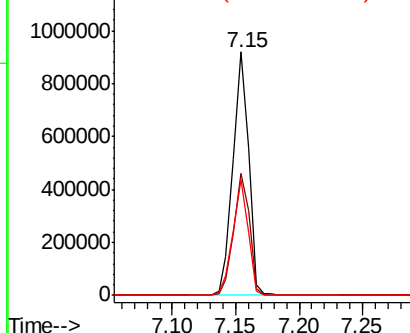
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 50.2  | 40.4  | 60.6  |
| 54      | 47.4  | 37.5  | 56.3  |

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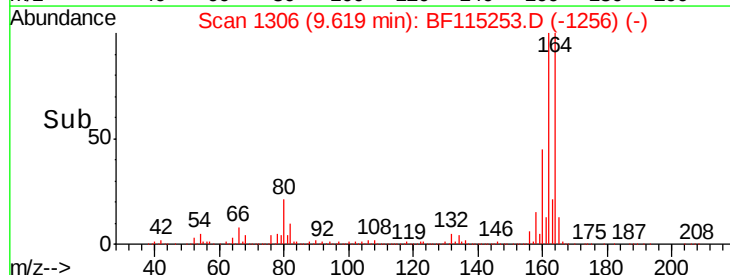
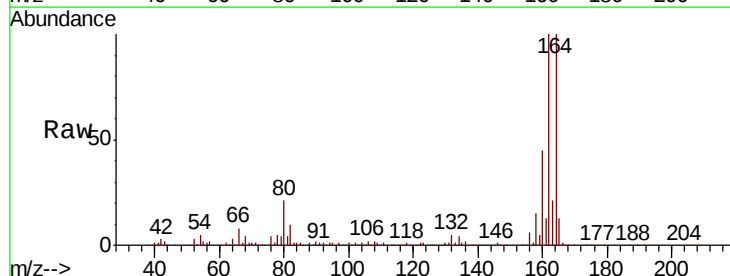
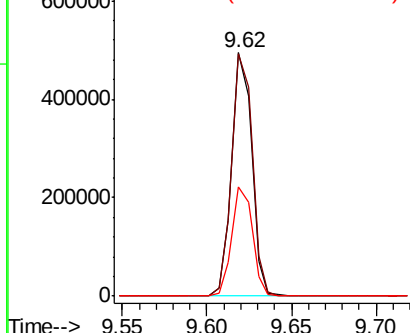
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

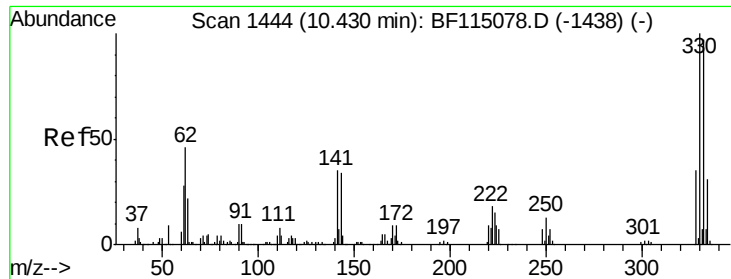


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.62 min Scan# 1306  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.6  | 81.7  | 122.5 |
| 160     | 45.1  | 37.0  | 55.4  |

Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





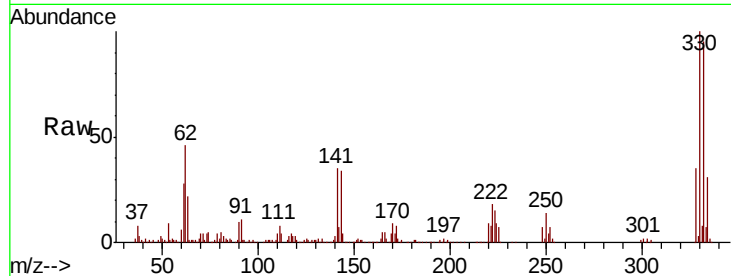
#42  
 2,4,6-Tribromophenol  
 Concen: 85.839 ng  
 RT: 10.40 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF115253.D  
 Acq: 28 Jun 2019 00:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-07-062619-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.2  | 77.3  | 115.9 |
| 141     | 33.1  | 28.2  | 42.2  |

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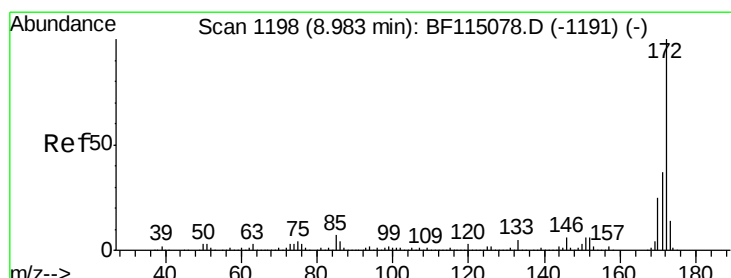
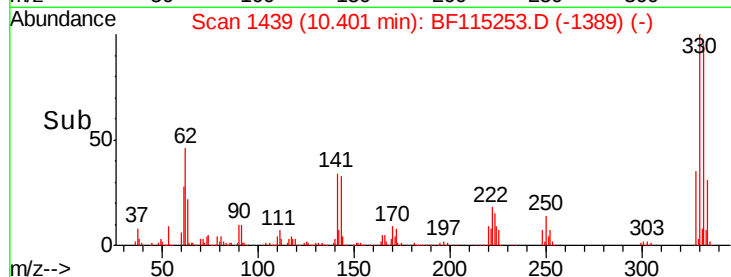
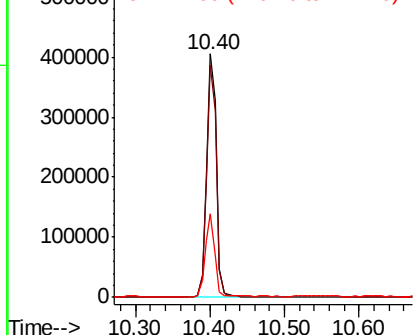


Abundance

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



#45  
 2-Fluorobiphenyl  
 Concen: 65.086 ng  
 RT: 8.95 min Scan# 1193  
 Delta R.T. -0.01 min  
 Lab File: BF115253.D  
 Acq: 28 Jun 2019 00:01

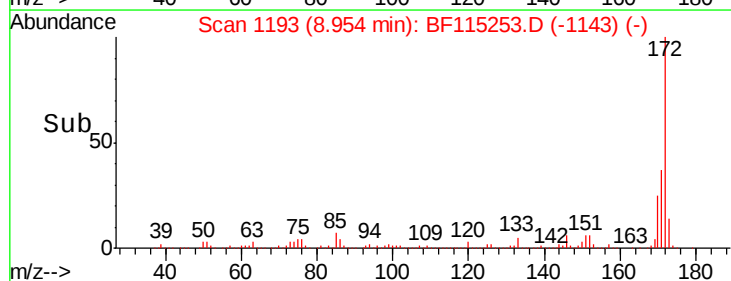
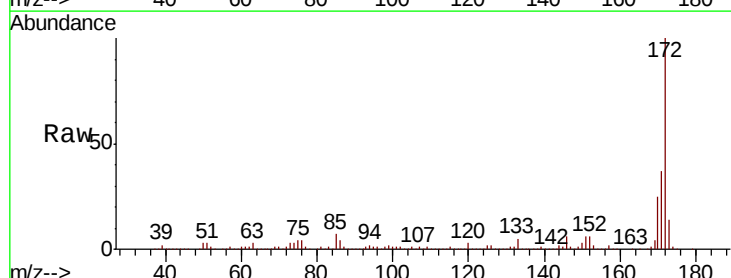
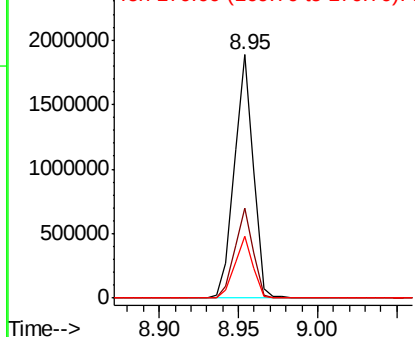
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 29.8  | 44.6  |
| 170     | 25.2  | 20.3  | 30.5  |

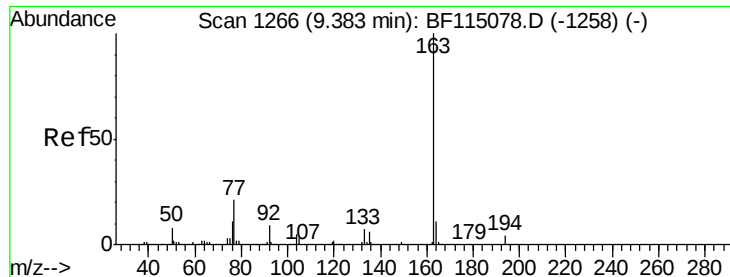
Abundance

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





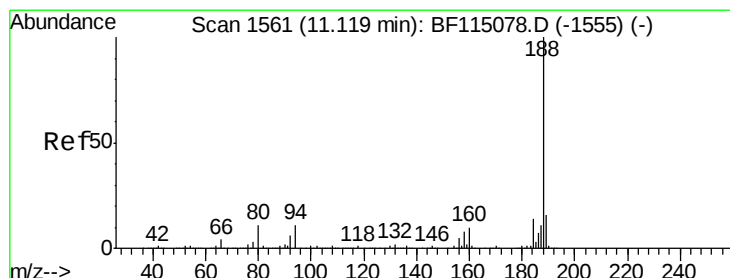
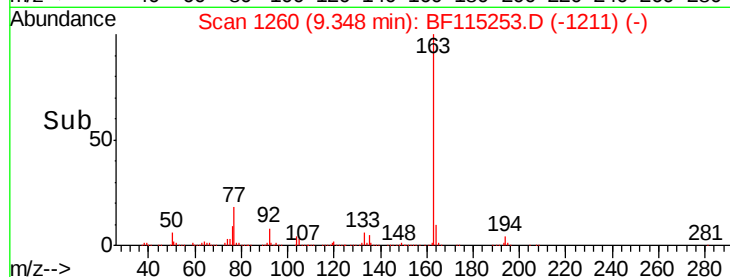
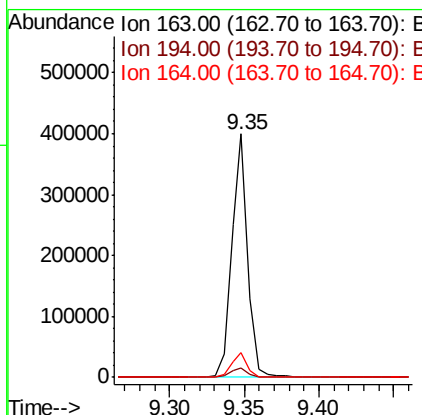
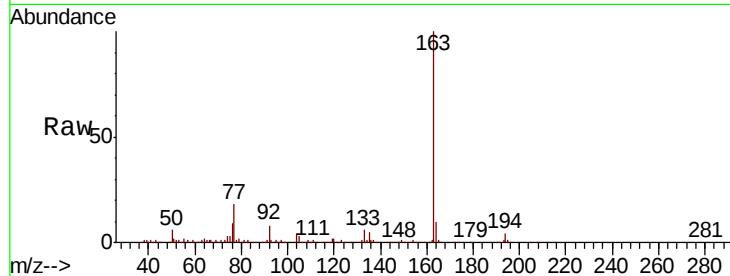
#50  
Dimethylphthalate  
Concen: 9.920 ng  
RT: 9.35 min Scan# 1260  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-062619-B

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 163     | 100  |       | 297999 |       |       |
| 194     | 3.9  |       | 3.2    | 4.8   |       |
| 164     | 10.3 |       | 8.6    | 13.0  |       |

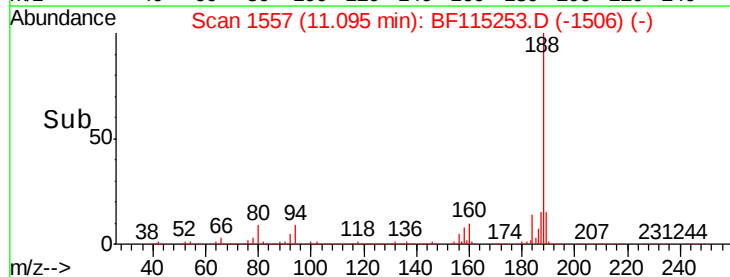
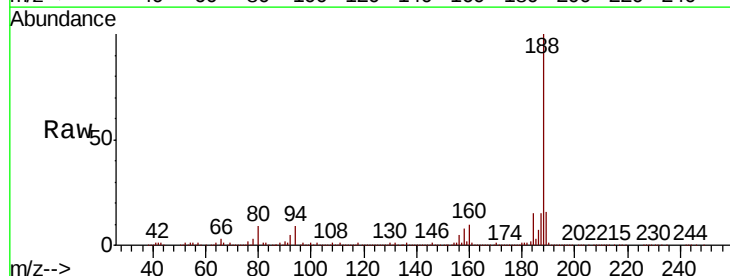
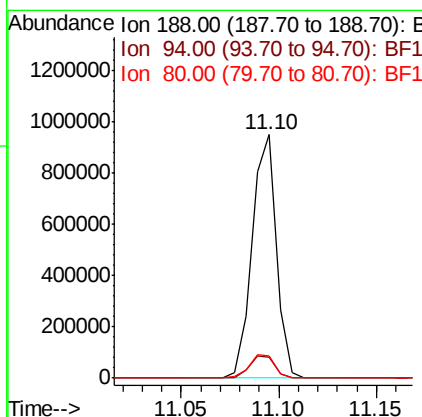
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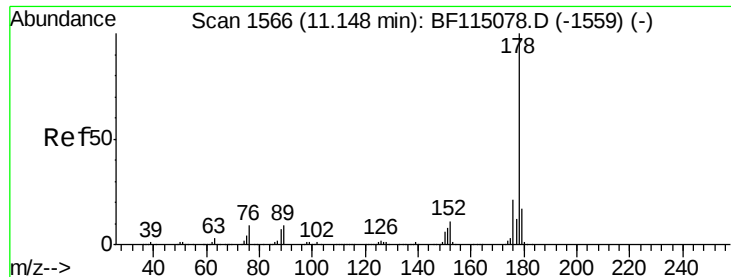
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.10 min Scan# 1557  
Delta R.T. 0.00 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 188     | 100 |       | 815647 |       |       |
| 94      | 8.6 |       | 8.6    | 12.8  |       |
| 80      | 9.1 |       | 8.8    | 13.2  |       |





#71

Phenanthrene

Concen: 3.952 ng

RT: 11.11 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF115253.D

Acq: 28 Jun 2019 00:01

Instrument :

BNA\_F

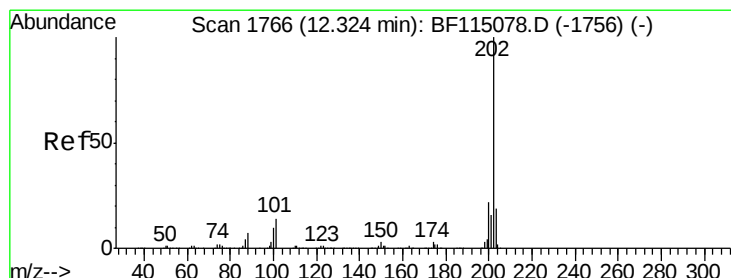
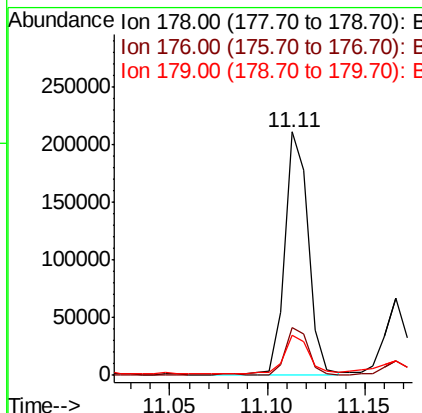
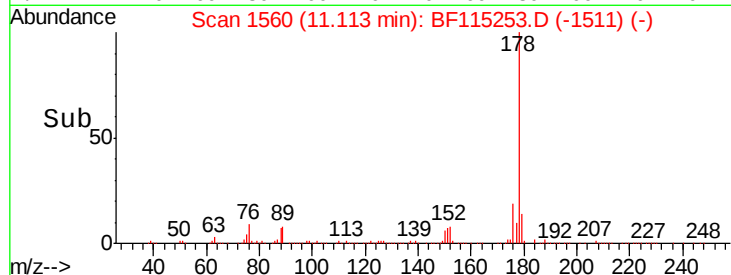
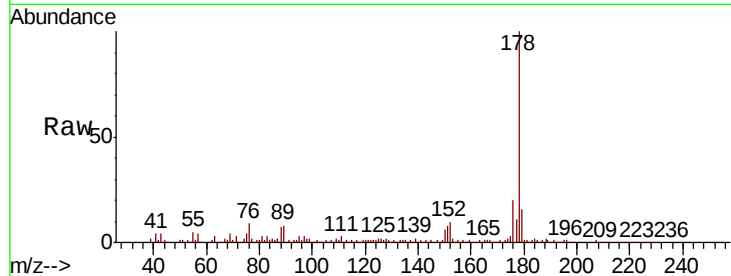
ClientSampleId :

NB-07-062619-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 173543 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.6  | 16.9  | 25.3   |
| 179       | 16.3  | 13.2  | 19.8   |

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#75

Fluoranthene

Concen: 7.762 ng

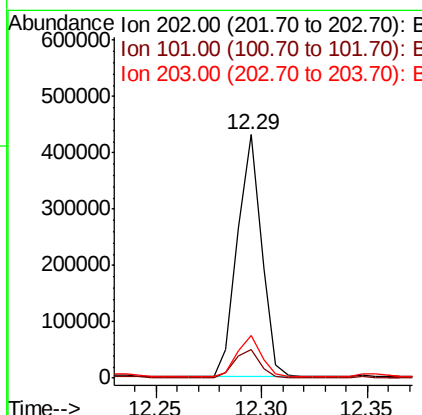
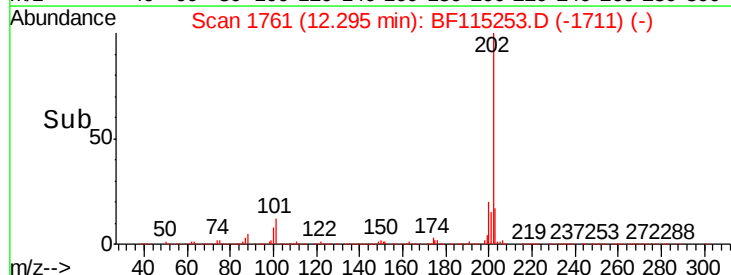
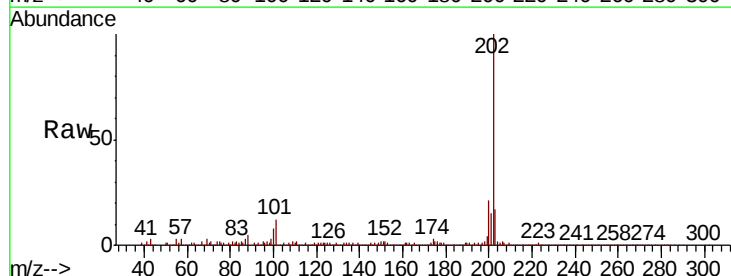
RT: 12.29 min Scan# 1761

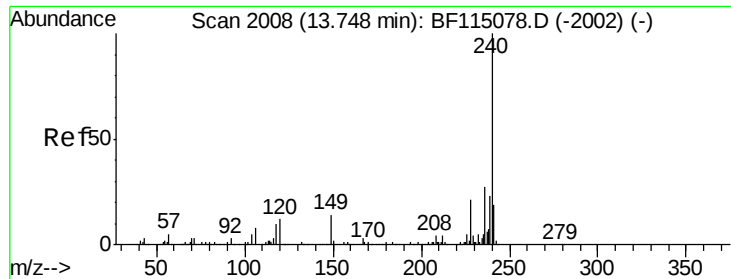
Delta R.T. -0.01 min

Lab File: BF115253.D

Acq: 28 Jun 2019 00:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 340101 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 0.0   | 34.0   |
| 203       | 17.5  | 0.0   | 38.8   |





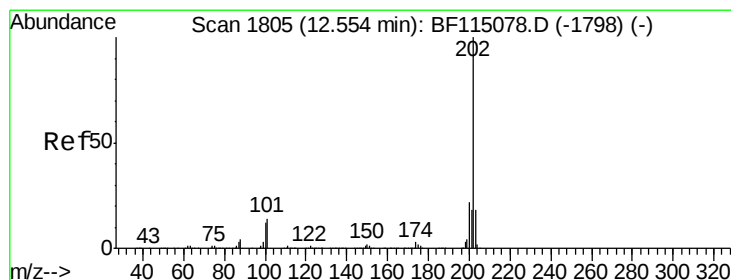
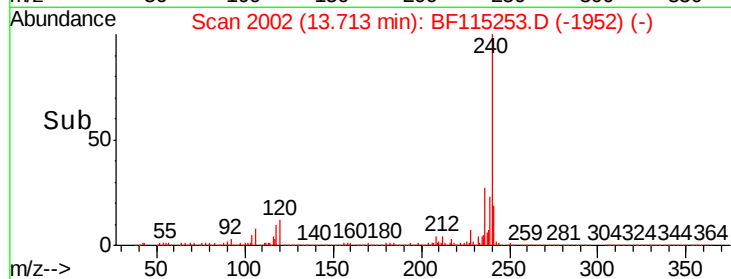
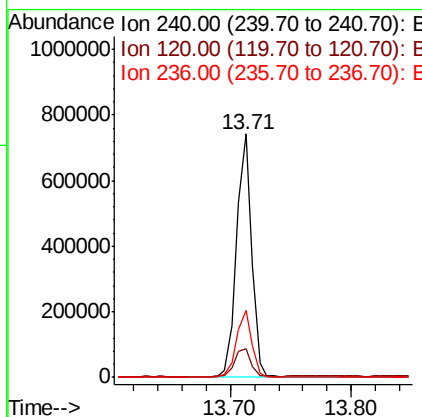
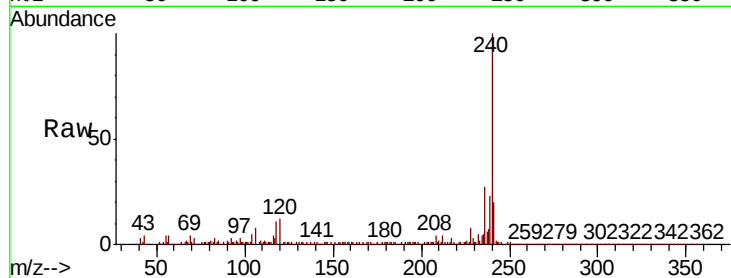
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.71 min Scan# 2002  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-062619-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.0  | 9.4   | 14.2  |
| 236     | 27.4  | 21.7  | 32.5  |

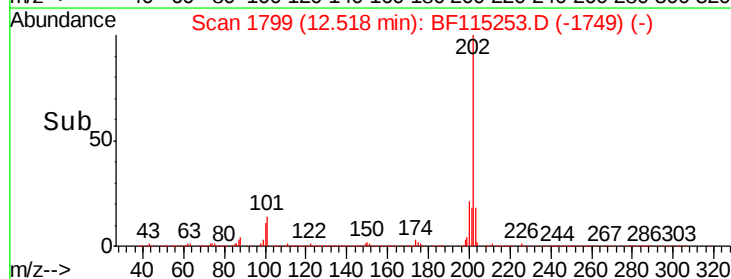
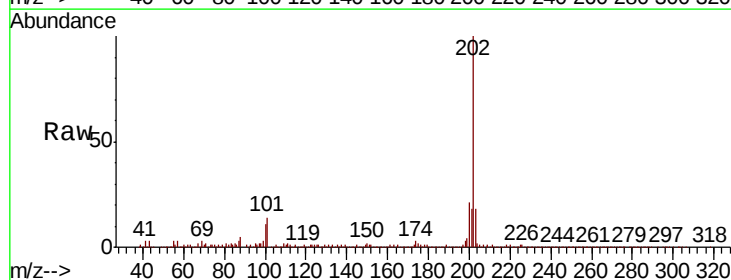
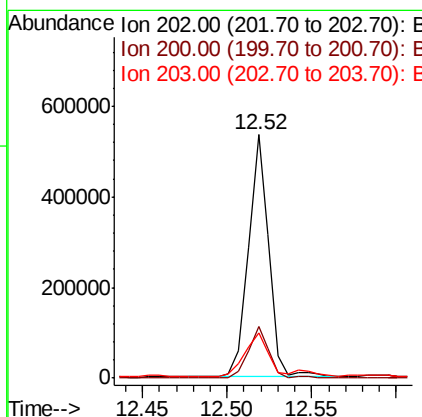
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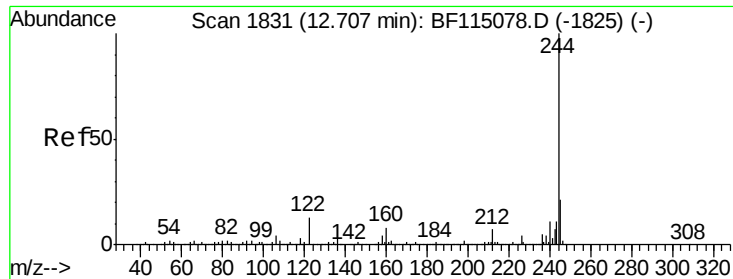
mohammad  
6/28/2019 2:58:46 PM



#78  
Pyrene  
Concen: 9.061 ng  
RT: 12.52 min Scan# 1799  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.4  | 17.9  | 26.9  |
| 203     | 18.4  | 14.6  | 21.8  |





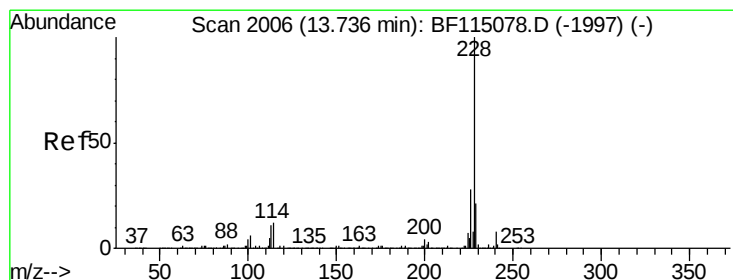
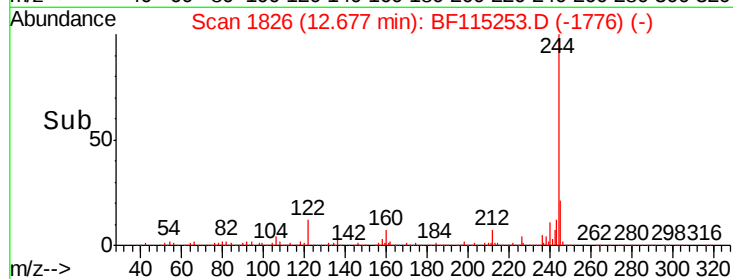
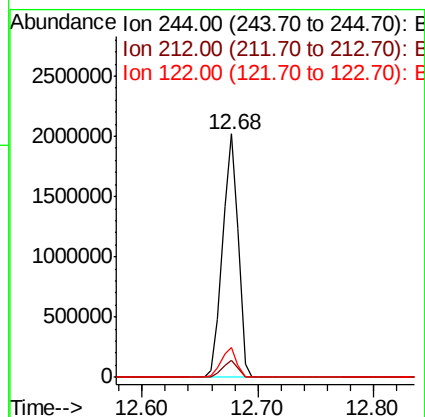
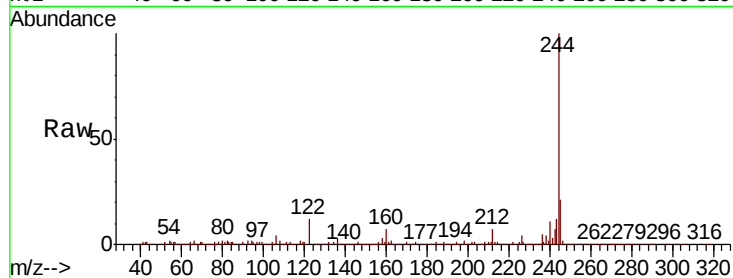
#79  
 Terphenyl-d14  
 Concen: 61.761 ng  
 RT: 12.68 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BF115253.D  
 Acq: 28 Jun 2019 00:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-07-062619-B

Tot Ion:244 Resp: 1888782  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.8 8.6  
 122 12.2 10.4 15.6

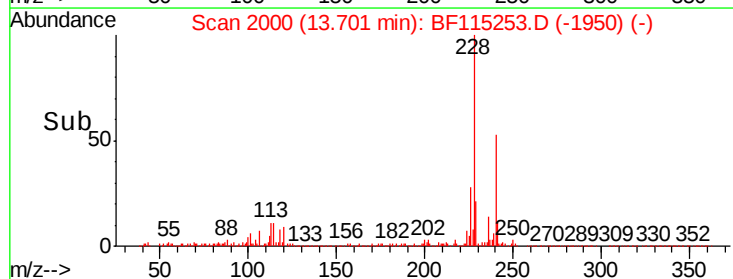
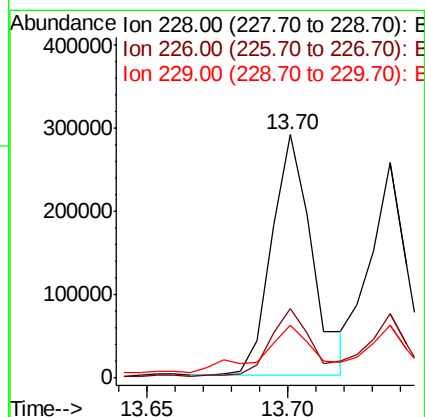
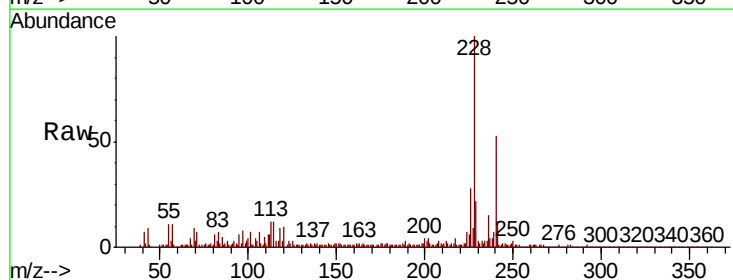
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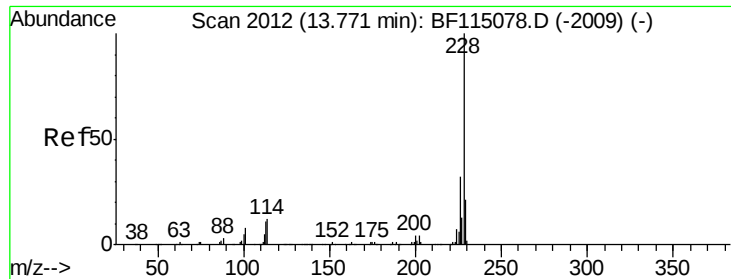
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 6/28/2019 2:58:46 PM



#81  
 Benzo(a)anthracene  
 Concen: 6.187 ng  
 RT: 13.70 min Scan# 2000  
 Delta R.T. -0.01 min  
 Lab File: BF115253.D  
 Acq: 28 Jun 2019 00:01

Tgt Ion:228 Resp: 288665  
 Ion Ratio Lower Upper  
 228 100  
 226 28.3 22.5 33.7  
 229 21.9 16.6 24.8





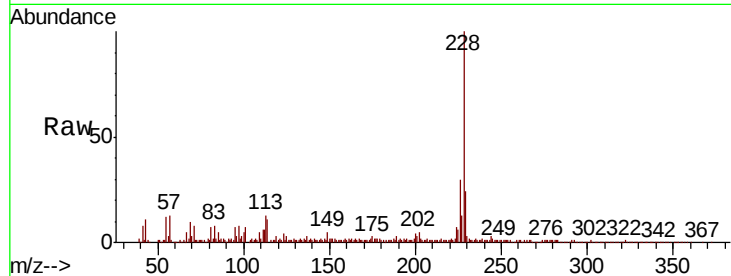
#83  
Chrysene  
Concen: 5.389 ng  
RT: 13.74 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

Instrument :  
BNA\_F  
ClientSampled :  
NB-07-062619-B

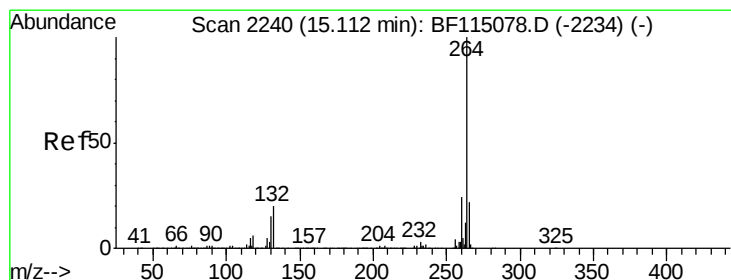
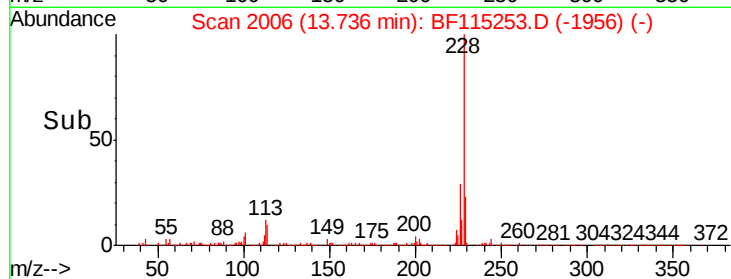
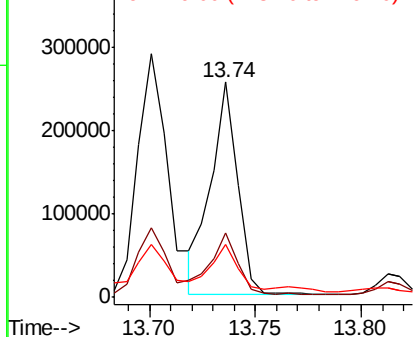
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 230296 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.2  | 25.4  | 38.0   |
| 229       | 24.5  | 16.5  | 24.7   |

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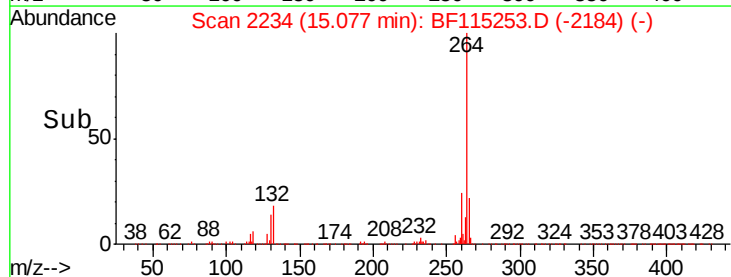
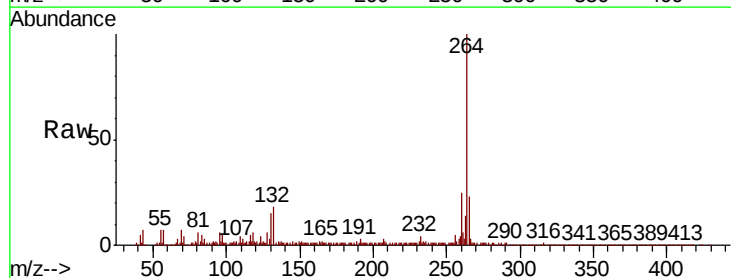
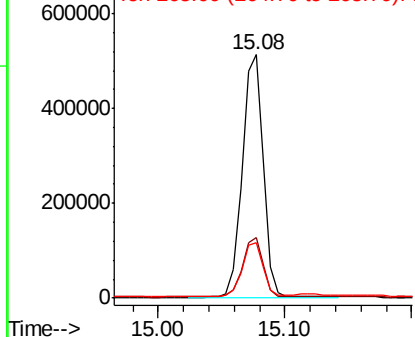
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

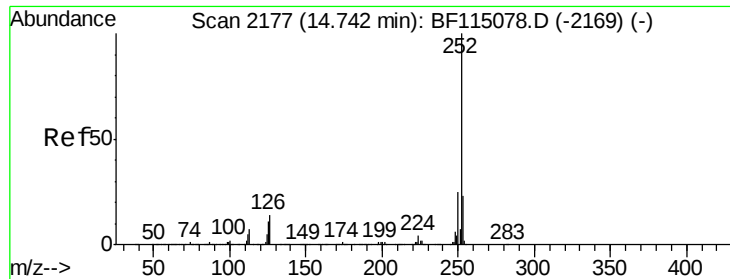


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.08 min Scan# 2234  
Delta R.T. -0.01 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 581604 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.9  | 19.6  | 29.4   |
| 265       | 22.9  | 17.3  | 25.9   |

Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





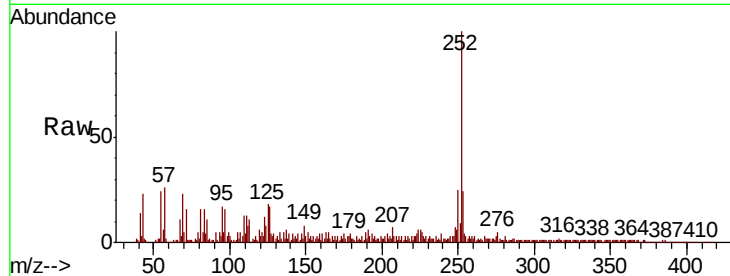
#88  
Benzo(b)fluoranthene  
Concen: 6.509 ng m  
RT: 14.70 min Scan# 2170  
Delta R.T. -0.02 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-062619-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 18.1  | 27.1  |
| 125     | 18.1  | 8.7   | 13.1  |

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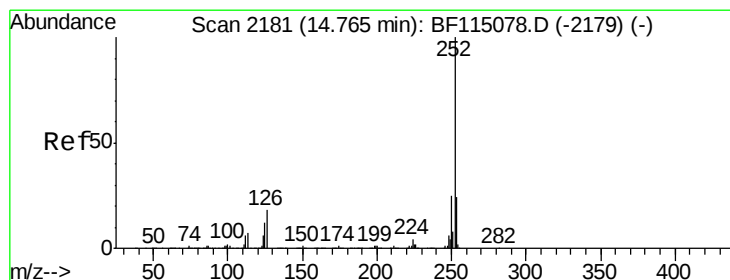
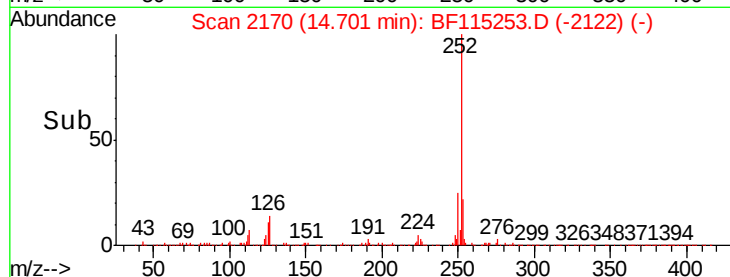
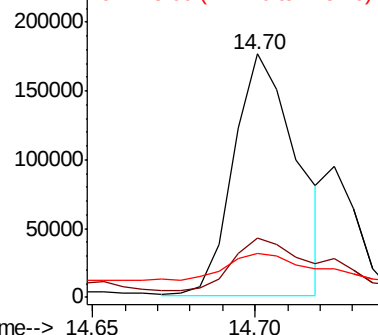


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89  
Benzo(k)fluoranthene  
Concen: 2.040 ng m  
RT: 14.72 min Scan# 2174  
Delta R.T. -0.02 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

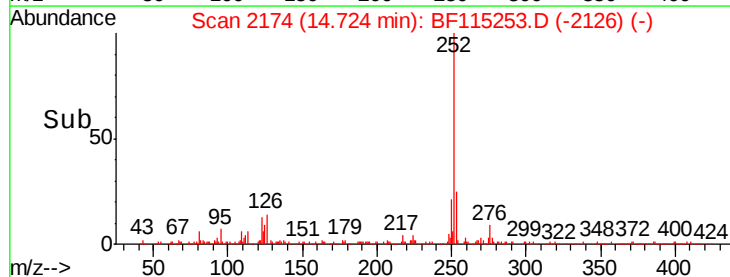
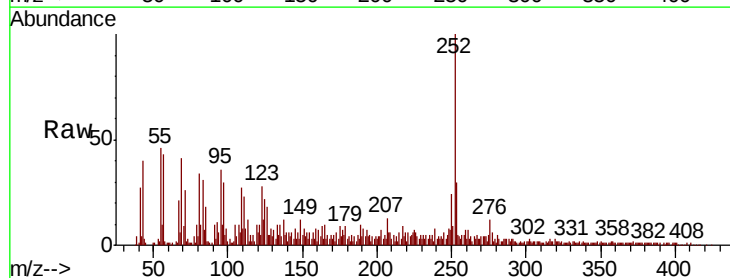
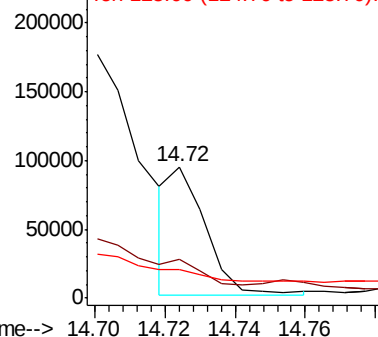
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.5  | 18.9  | 28.3  |
| 125     | 22.2  | 10.2  | 15.2  |

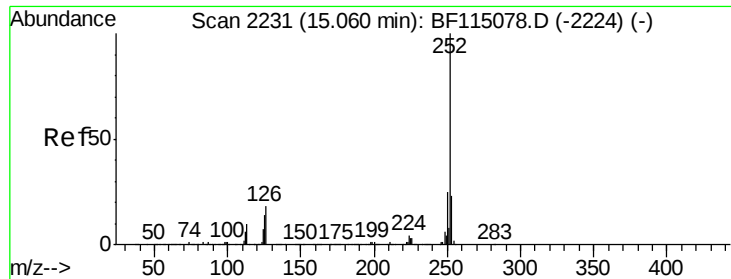
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90  
Benzo(a)pyrene  
Concen: 4.292 ng  
RT: 15.02 min Scan# 2224  
Delta R.T. -0.02 min  
Lab File: BF115253.D  
Acq: 28 Jun 2019 00:01

Instrument :  
BNA\_F  
ClientSampleId :  
NB-07-062619-B

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 25.9  | 18.3       | 27.5  |
| 125     | 18.7  | 10.9       | 16.3  |

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