

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042319\  
 Data File : BF113921.D  
 Acq On : 23 Apr 2019 15:40  
 Operator : JU/SJ  
 Sample : K2193-11 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-041719-C

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 4/24/2019 11:51:27 AM

Quant Time: Apr 23 16:14:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 23 03:32:35 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 315027   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.18  | 136  | 1121007  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.93  | 164  | 546847   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.42 | 188  | 935539   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.06 | 240  | 886702   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.56 | 264  | 945279   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.52  | 112  | 381680   | 20.72 | ng    | 0.00     |
| 7) Phenol-d6                | 6.52  | 99   | 504470   | 21.83 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 301943   | 16.63 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 119987   | 18.01 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 541567   | 15.49 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.00 | 244  | 539164   | 12.47 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 75) Fluoranthene            | 12.63 | 202  | 165240   | 3.221 | ng    | 97       |
| 78) Pyrene                  | 12.86 | 202  | 153255   | 2.472 | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.12 | 252  | 122716m  | 2.052 | ng    |          |

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

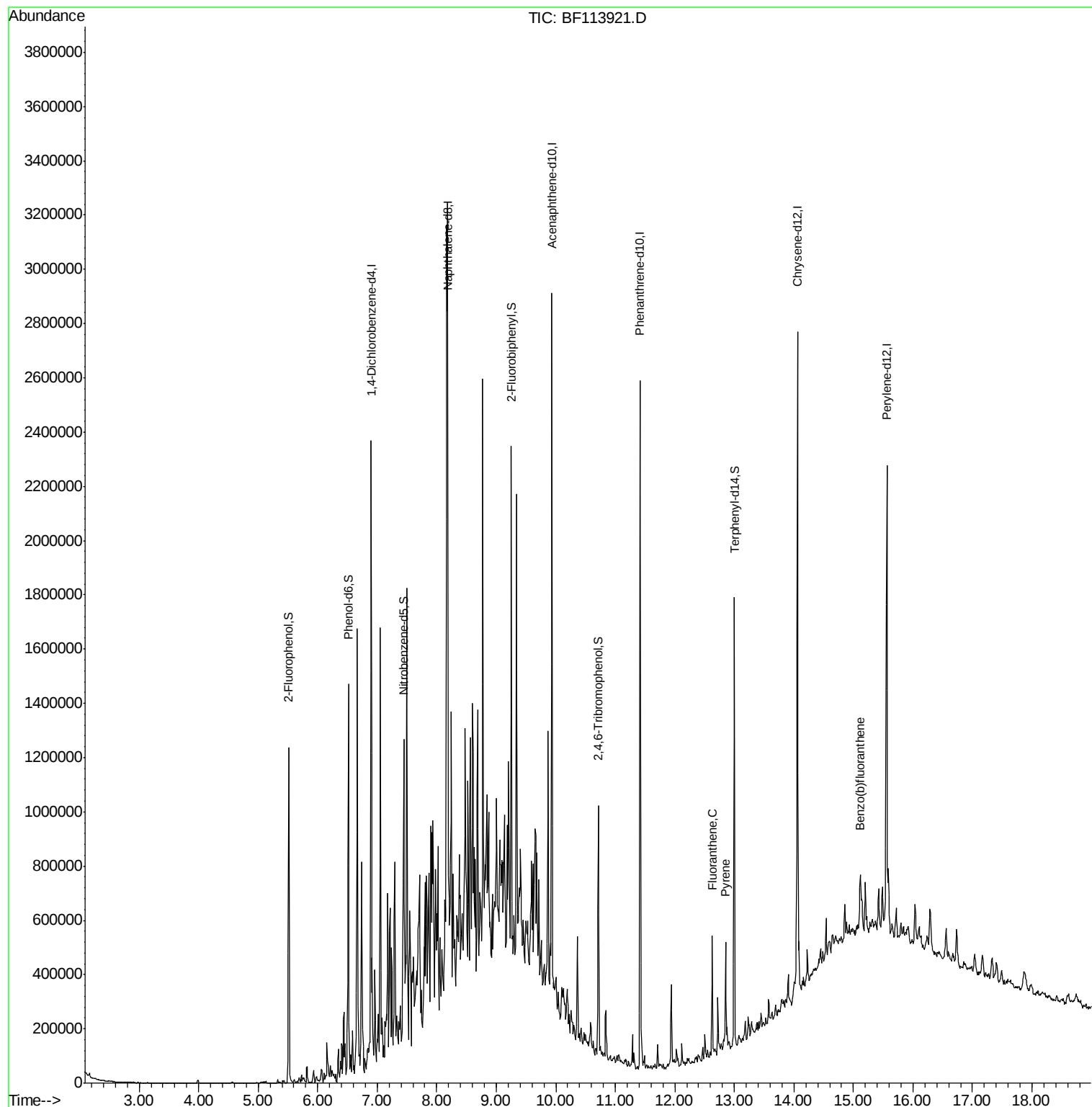
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042319\  
Data File : BF113921.D  
Acq On : 23 Apr 2019 15:40  
Operator : JU/SJ  
Sample : K2193-11 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

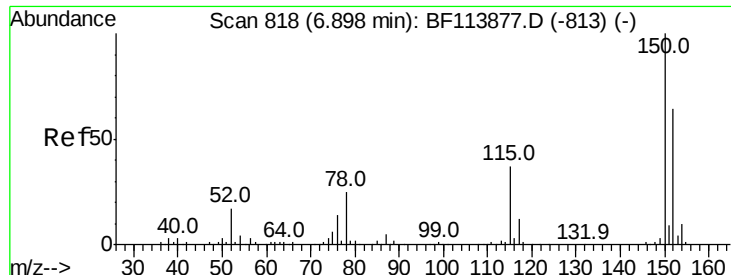
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-041719-C

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Quant Time: Apr 23 16:14:14 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 23 03:32:35 2019  
Response via : Initial Calibration





#1

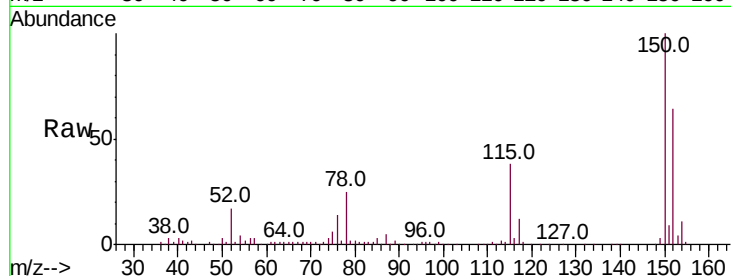
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 818  
Delta R.T. 0.00 min  
Lab File: BF113921.D  
Acq: 23 Apr 2019 15:40

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-041719-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.8 | 125.9 | 188.9 |
| 115     | 59.5  | 45.9  | 68.9  |

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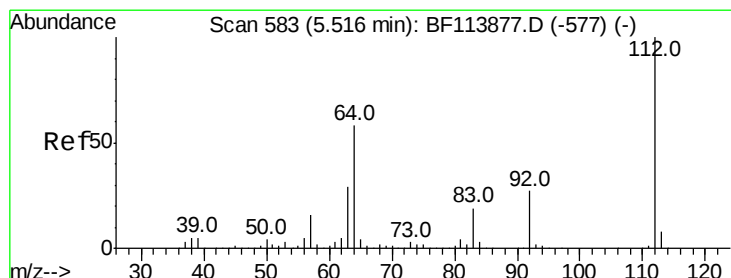
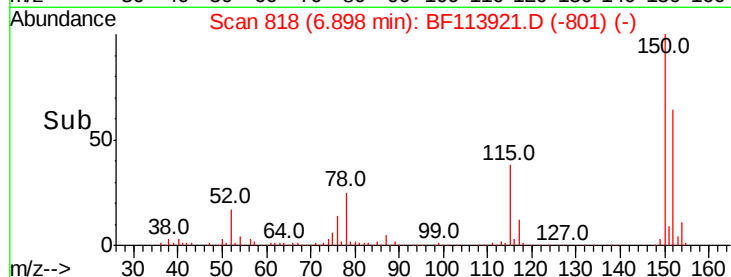
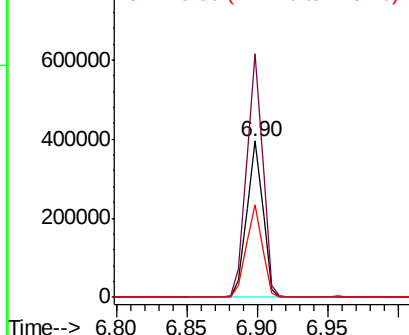


Abundance

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: 20.722 ng  
RT: 5.52 min Scan# 583  
Delta R.T. 0.00 min  
Lab File: BF113921.D  
Acq: 23 Apr 2019 15:40

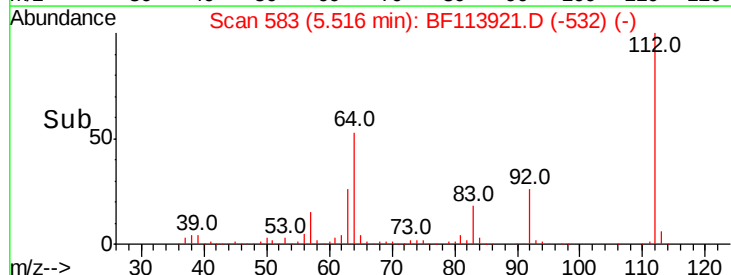
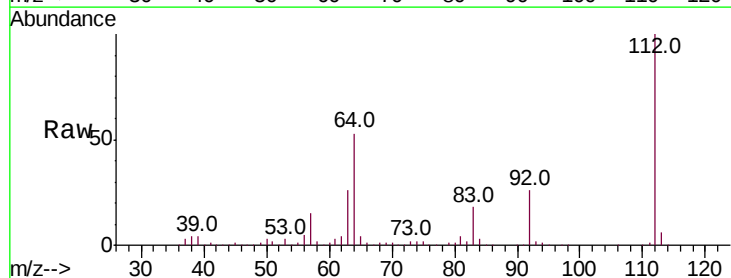
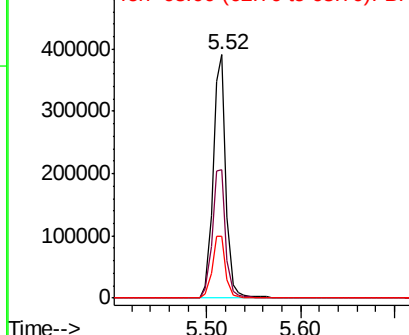
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.9  | 46.6  | 69.8  |
| 63      | 25.7  | 23.1  | 34.7  |

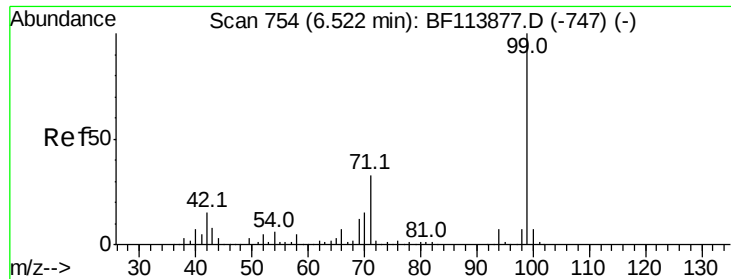
Abundance

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: 21.830 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF113921.D

Acq: 23 Apr 2019 15:40

Instrument :

BNA\_F

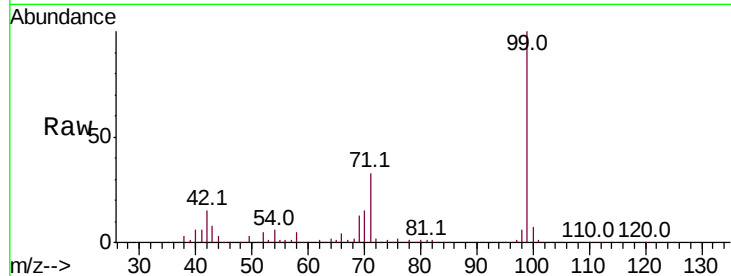
ClientSampleId :

HR-05-041719-C

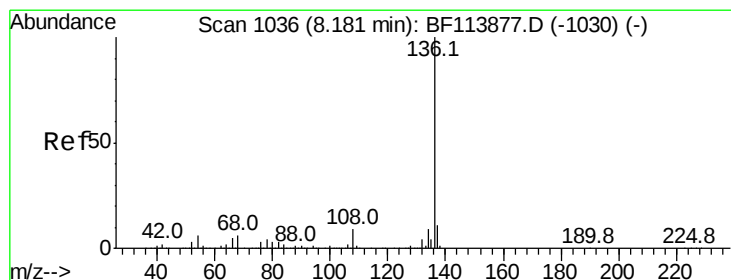
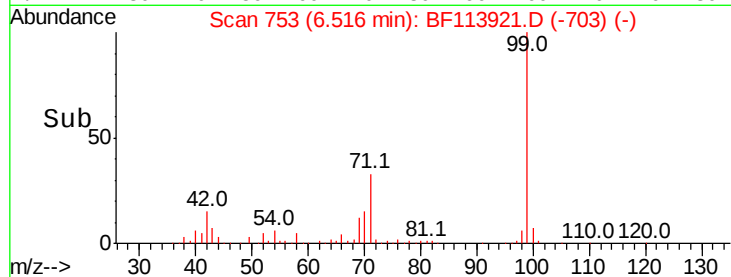
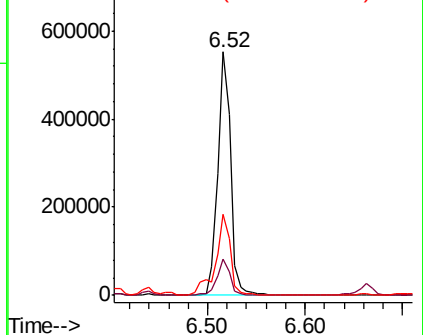
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 504470 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 14.8  | 12.5  | 18.7   |
| 71       | 33.4  | 26.9  | 40.3   |

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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: 8.18 min Scan# 1036

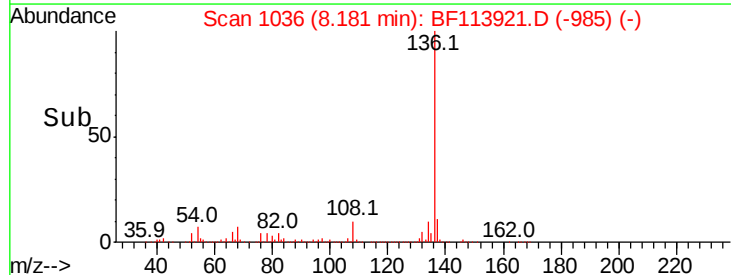
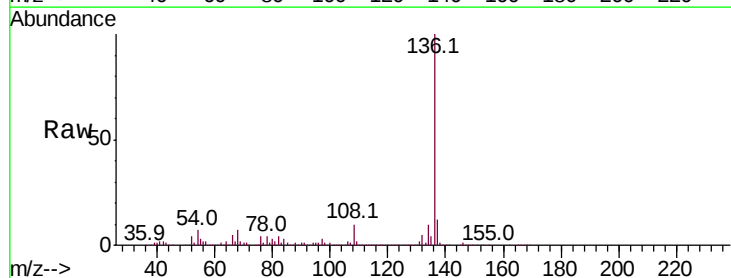
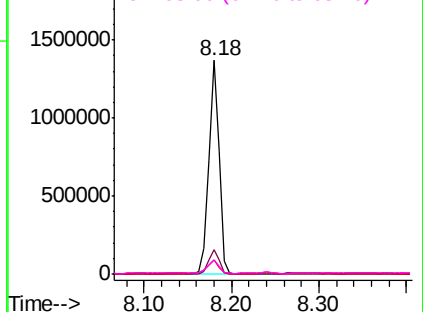
Delta R.T. 0.00 min

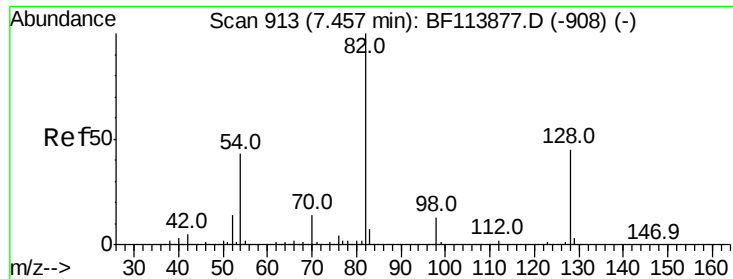
Lab File: BF113921.D

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|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 136   | Resp: | 1121007 |
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.6  | 8.6   | 12.8    |
| 54       | 6.9   | 5.0   | 7.6     |
| 68       | 6.9   | 4.9   | 7.3     |

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





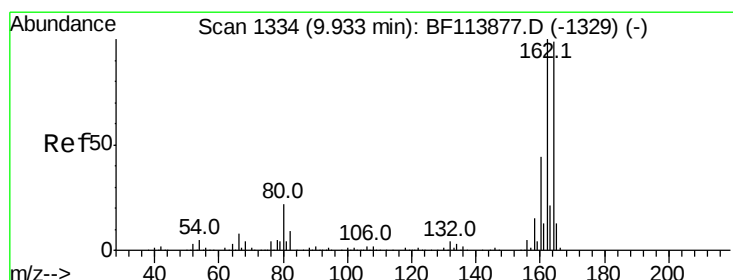
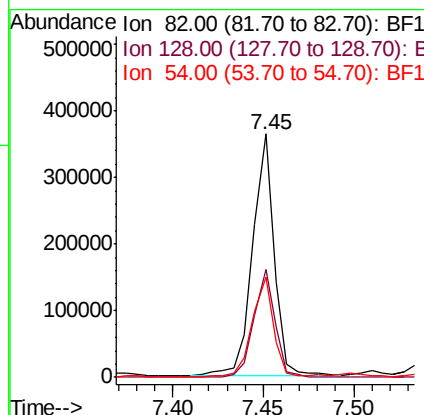
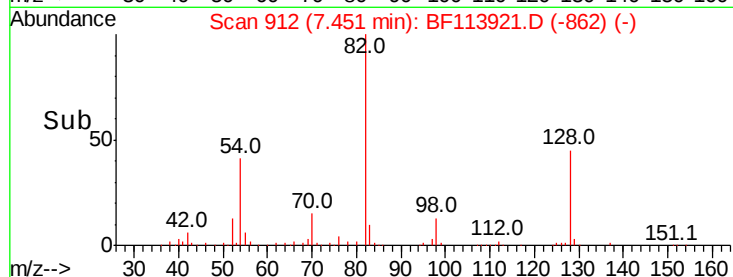
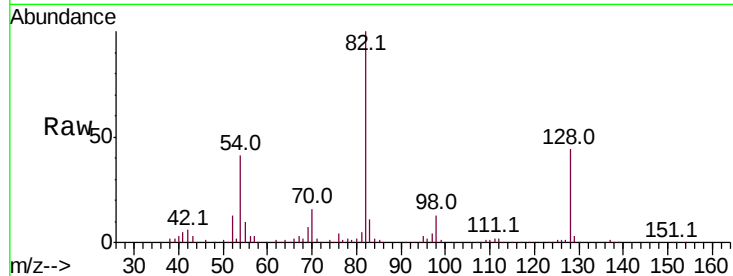
#23  
 Nitrobenzene-d5  
 Concen: 16.631 ng  
 RT: 7.45 min Scan# 912  
 Delta R.T. -0.01 min  
 Lab File: BF113921.D  
 Acq: 23 Apr 2019 15:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-041719-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.5  | 36.8  | 55.2  |
| 54      | 41.4  | 33.8  | 50.6  |

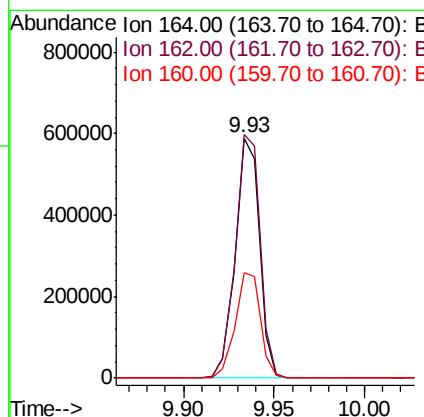
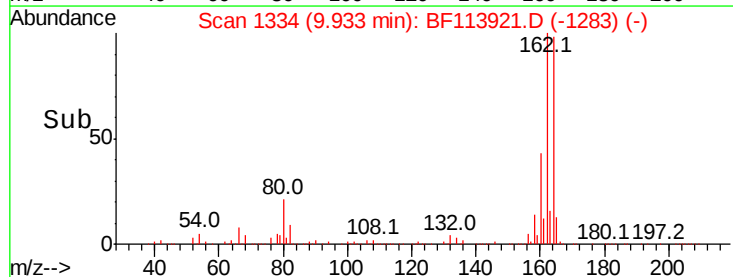
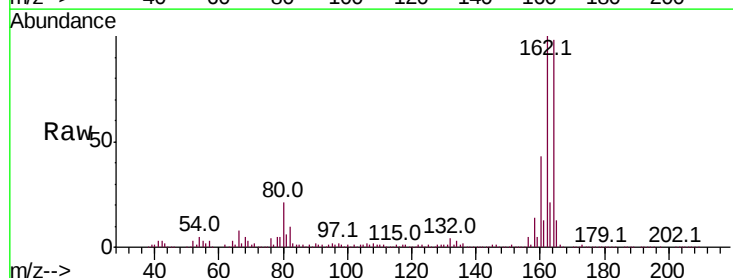
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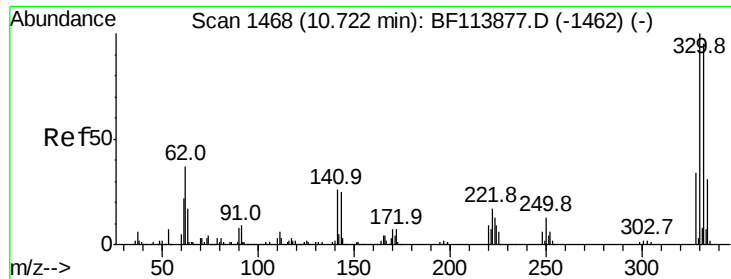
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.93 min Scan# 1334  
 Delta R.T. 0.00 min  
 Lab File: BF113921.D  
 Acq: 23 Apr 2019 15:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.5 | 81.1  | 121.7 |
| 160     | 44.1  | 35.8  | 53.6  |





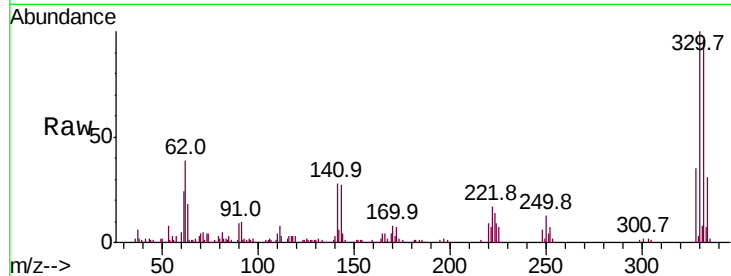
#42  
 2,4,6-Tribromophenol  
 Concen: 18.011 ng  
 RT: 10.72 min Scan# 1467  
 Delta R.T. -0.01 min  
 Lab File: BF113921.D  
 Acq: 23 Apr 2019 15:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-041719-C

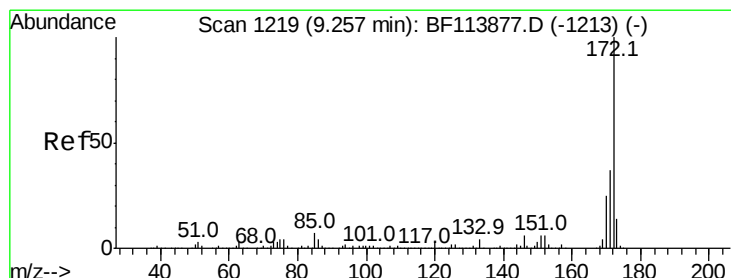
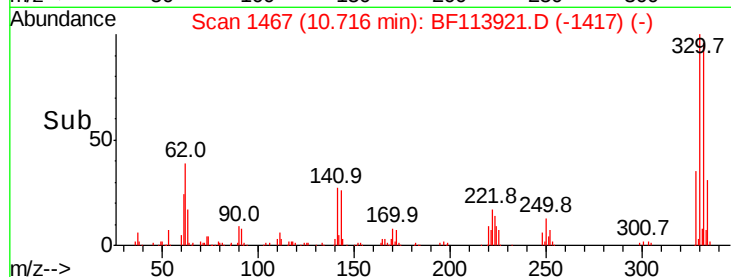
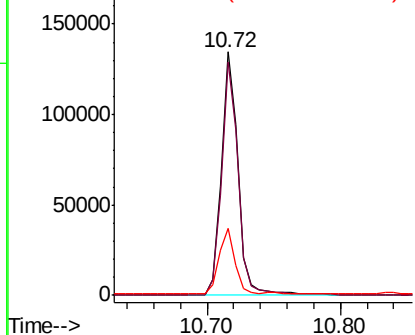
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 119987 |       |       |
| 332     | 96.4  | 77.5   | 116.3 |       |
| 141     | 26.3  | 22.2   | 33.2  |       |

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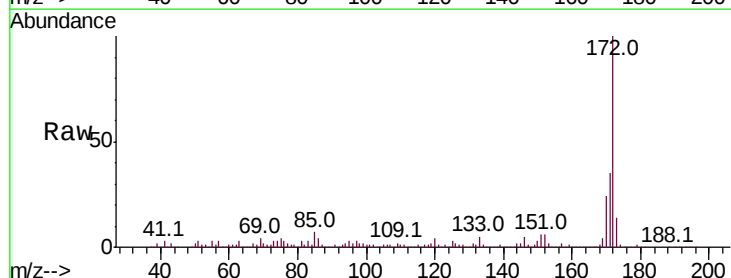


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

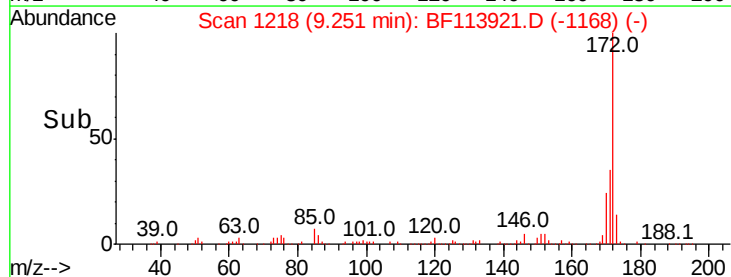
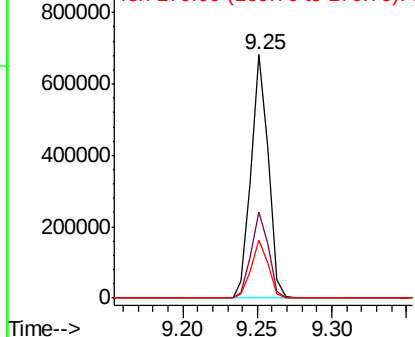


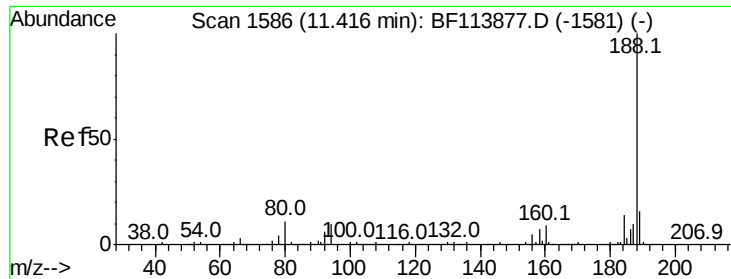
#45  
 2-Fluorobiphenyl  
 Concen: 15.489 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.00 min  
 Lab File: BF113921.D  
 Acq: 23 Apr 2019 15:40

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 541567 |       |       |
| 171     | 35.5  | 29.4   | 44.0  |       |
| 170     | 24.0  | 19.9   | 29.9  |       |



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





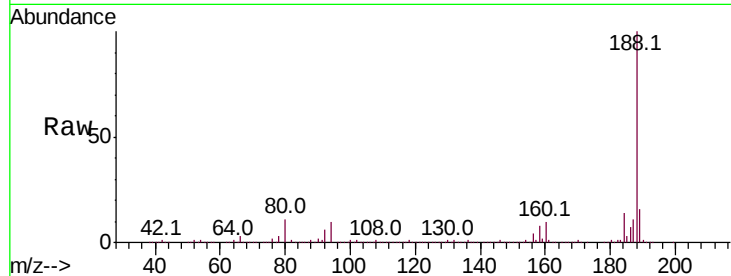
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: BF113921.D  
Acq: 23 Apr 2019 15:40

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-041719-C

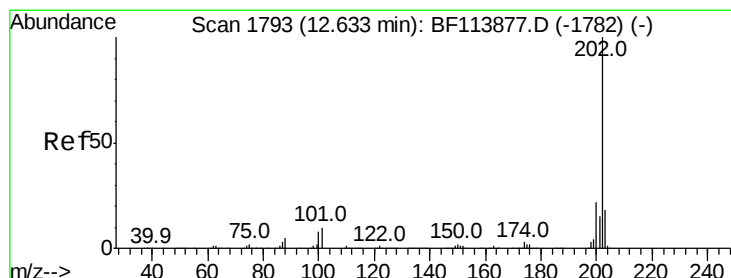
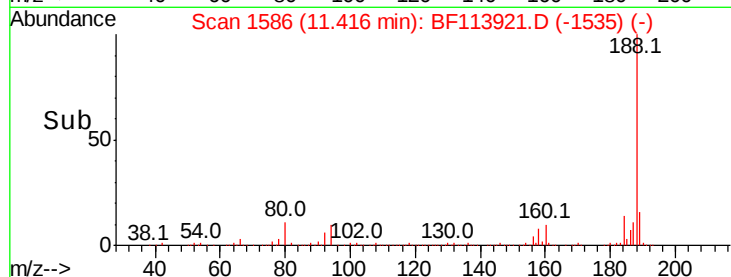
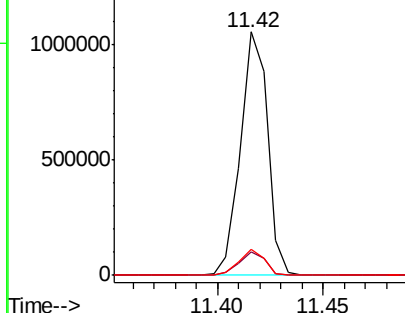
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.7   | 8.2        | 12.4  |
| 80      | 10.8  | 9.0        | 13.6  |

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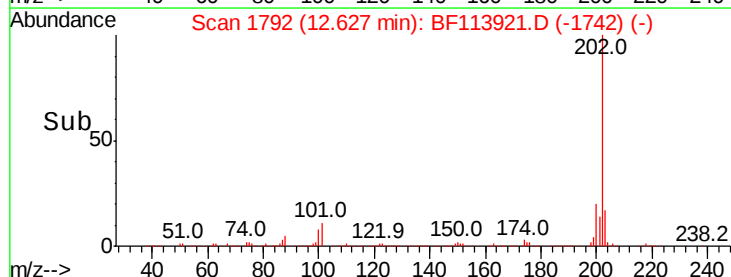
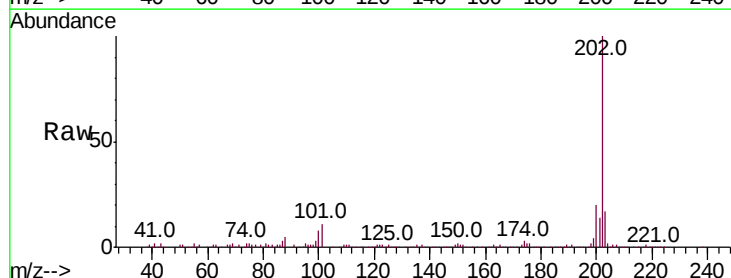
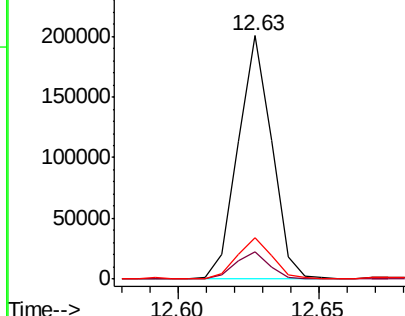
Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

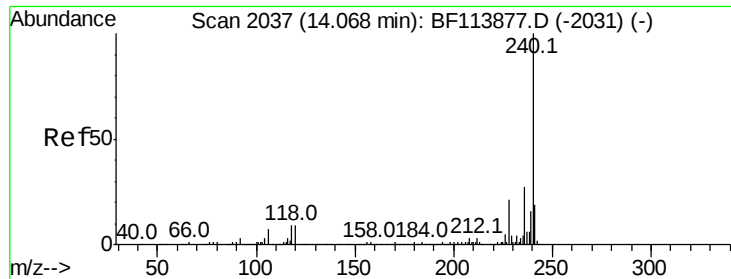


#75  
Fluoranthene  
Concen: 3.221 ng  
RT: 12.63 min Scan# 1792  
Delta R.T. -0.01 min  
Lab File: BF113921.D  
Acq: 23 Apr 2019 15:40

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.0  | 0.0        | 32.9  |
| 203     | 17.1  | 0.0        | 38.2  |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

Lab File: BF113921.D

Acq: 23 Apr 2019 15:40

Instrument :

BNA\_F

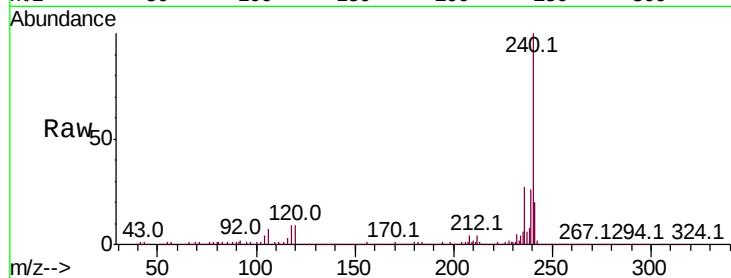
ClientSampleId :

HR-05-041719-C

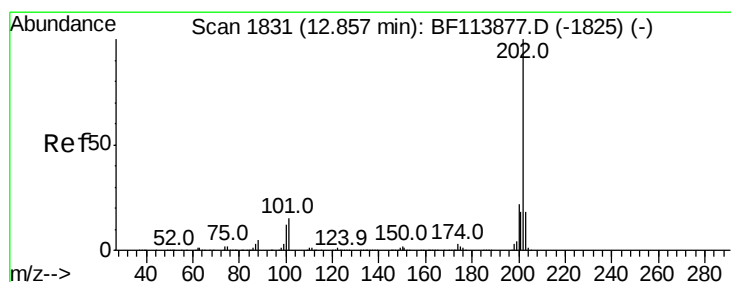
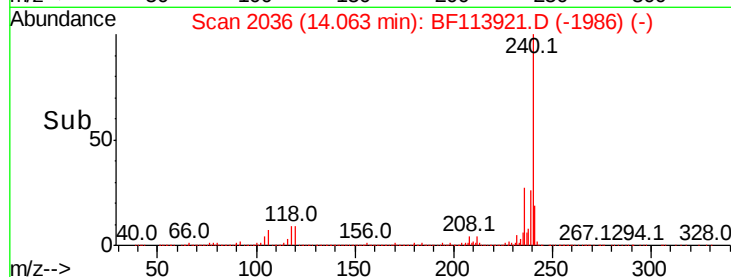
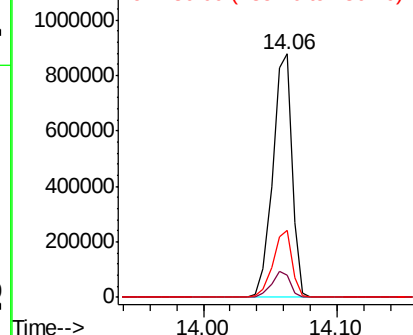
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 886702 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.2   | 9.3   | 13.9#  |
| 236       | 27.3  | 21.2  | 31.8   |

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Abundance Ion 240.00 (239.70 to 240.70): E  
1200000  
Ion 120.00 (119.70 to 120.70): E  
1000000  
Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 2.472 ng

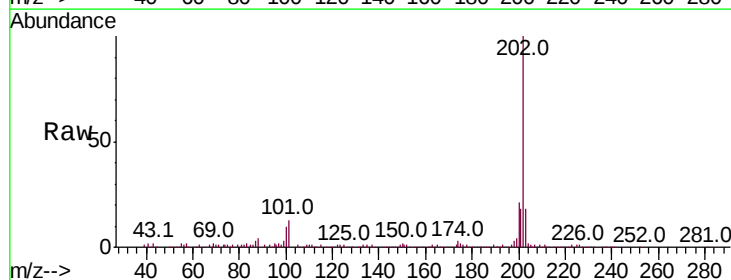
RT: 12.86 min Scan# 1831

Delta R.T. 0.00 min

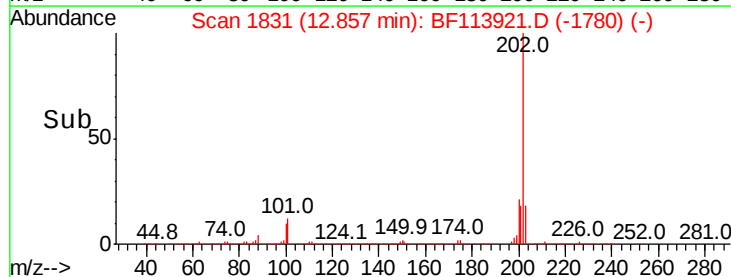
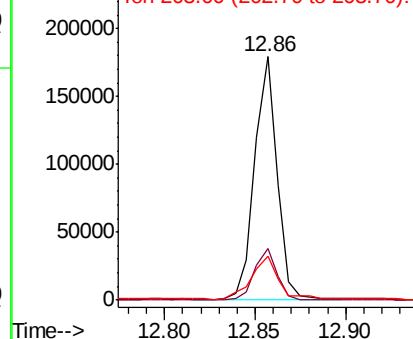
Lab File: BF113921.D

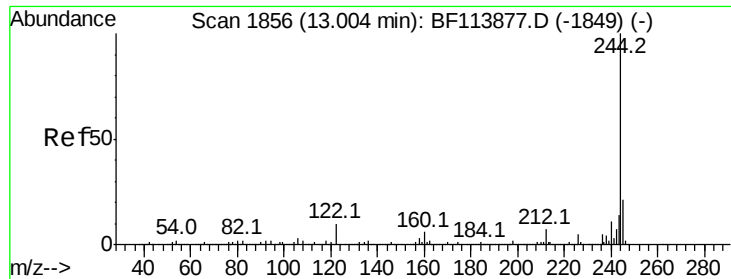
Acq: 23 Apr 2019 15:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 153255 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 17.7  | 26.5   |
| 203       | 18.1  | 15.0  | 22.6   |



Abundance Ion 202.00 (201.70 to 202.70): E  
250000  
Ion 200.00 (199.70 to 200.70): E  
200000  
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 12.466 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.01 min

Lab File: BF113921.D

Acq: 23 Apr 2019 15:40

Instrument :

BNA\_F

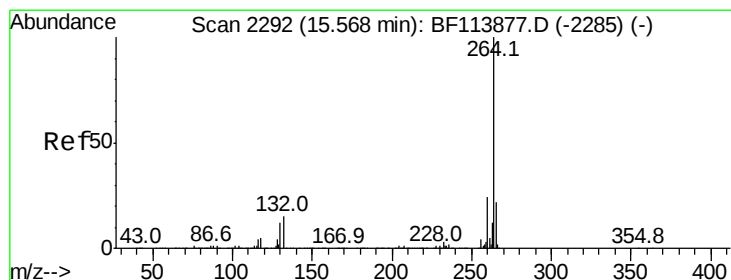
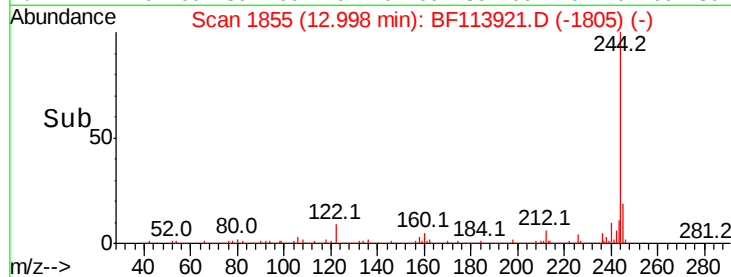
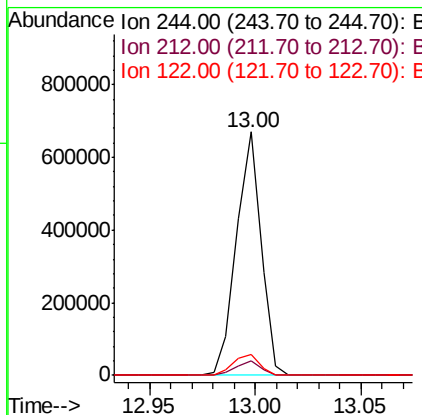
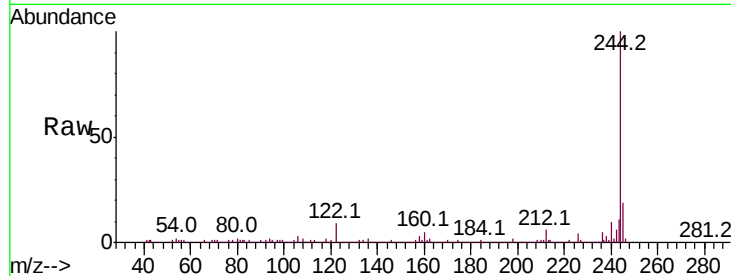
ClientSampleId :

HR-05-041719-C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 539164 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.0   | 5.4   | 8.2    |
| 122       | 8.8   | 7.6   | 11.4   |

Manual Integrations  
APPROVED

Sohil  
4/24/2019 11:51:27 AM



#87

Perylene-d12

Concen: 20.000 ng

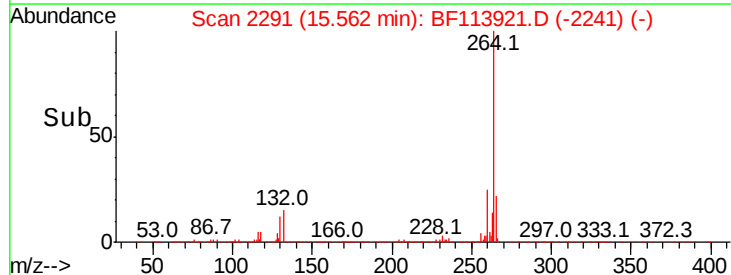
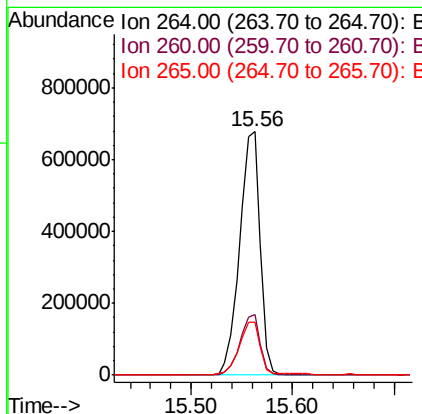
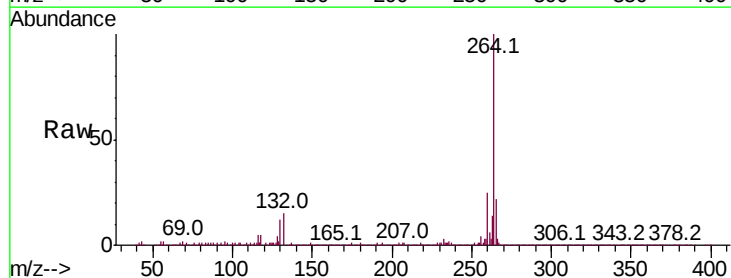
RT: 15.56 min Scan# 2291

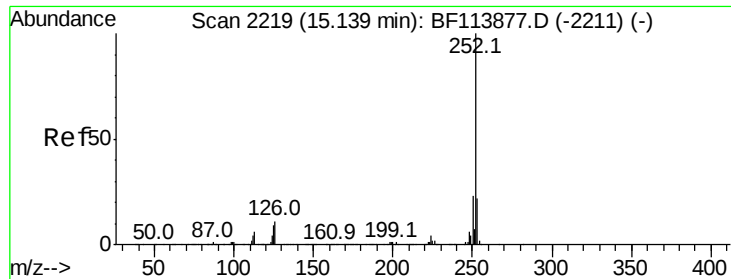
Delta R.T. -0.01 min

Lab File: BF113921.D

Acq: 23 Apr 2019 15:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 945279 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.7  | 18.9  | 28.3   |
| 265       | 21.9  | 17.3  | 25.9   |





#88

Benzo(b)fluoranthene

Concen: 2.052 ng/mL

RT: 15.12 min Scan# 2215

Delta R.T. -0.02 min

Lab File: BF113921.D

Acq: 23 Apr 2019 15:40

Instrument :

BNA\_F

ClientSampleId :

HR-05-041719-C

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 26.3  | 17.8       | 26.6  |
| 125     | 14.4  | 7.0        | 10.6  |

Manual Integrations  
APPROVED

Sohil  
4/24/2019 11:51:27 AM

