

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111819\  
 Data File : BF117848.D  
 Acq On : 18 Nov 2019 21:12  
 Operator : JU  
 Sample : K5865-10  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 3-(6-8)

Manual Integrations  
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 11/19/2019 2:36:31 PM

Quant Time: Nov 19 00:39:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 18:36:07 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.92  | 152  | 201149   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.21  | 136  | 746258   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.97  | 164  | 342759   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.46 | 188  | 570173   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.11 | 240  | 507273   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.63 | 264  | 454390   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.53  | 112  | 105281   | 9.26  | ng    | 0.00     |
| 7) Phenol-d6                | 6.53  | 99   | 914199   | 66.70 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.48  | 82   | 894079   | 71.22 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.76 | 330  | 5061     | 1.39  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.29  | 172  | 1634681  | 85.56 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.05 | 244  | 1716305  | 61.84 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 10) Phenol                  | 6.55  | 94   | 110880   | 7.785 | ng    | 96       |
| 50) Dimethylphthalate       | 9.67  | 163  | 182586   | 7.596 | ng    | 100      |
| 71) Phenanthrene            | 11.49 | 178  | 259022   | 9.036 | ng    | 97       |
| 72) Anthracene              | 11.54 | 178  | 59844    | 2.106 | ng    | 97       |
| 75) Fluoranthene            | 12.68 | 202  | 366618   | 7.829 | ng    | 99       |
| 78) Pyrene                  | 12.91 | 202  | 354805   | 8.655 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.10 | 228  | 180779   | 5.393 | ng    | 95       |
| 83) Chrysene                | 14.14 | 228  | 177540   | 5.466 | ng    | 97       |
| 86) Indeno(1,2,3-cd)pyrene  | 17.15 | 276  | 58652    | 2.122 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.17 | 252  | 190688m  | 6.459 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.20 | 252  | 64580m   | 2.322 | ng    |          |
| 90) Benzo(a)pyrene          | 15.56 | 252  | 123606   | 4.761 | ng    | # 92     |
| 92) Benzo(a,h,i)perylene    | 17.62 | 276  | 60450    | 2.716 | ng    | # 94     |

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

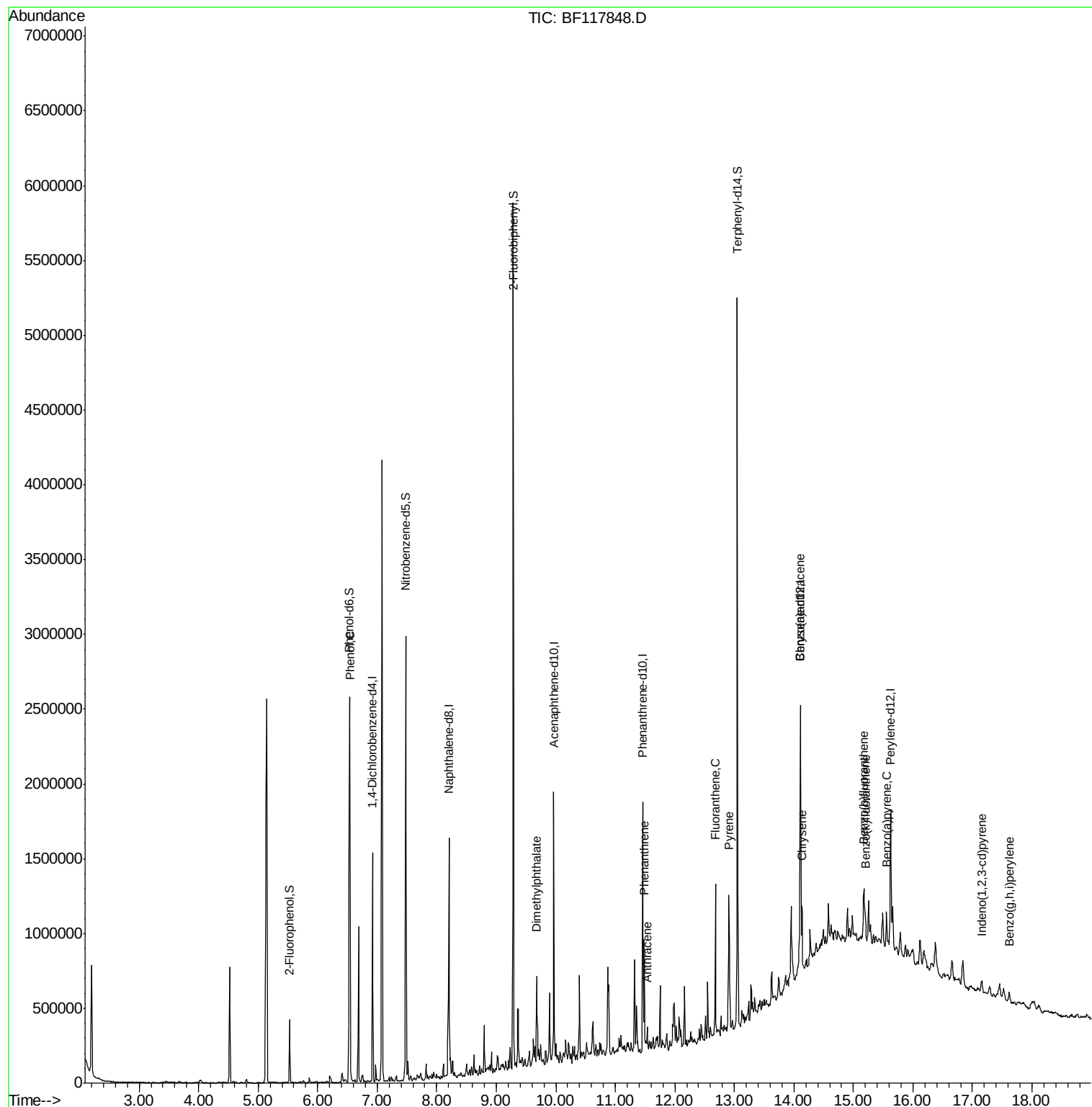
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111819\  
Data File : BF117848.D  
Acq On : 18 Nov 2019 21:12  
Operator : JU  
Sample : K5865-10  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

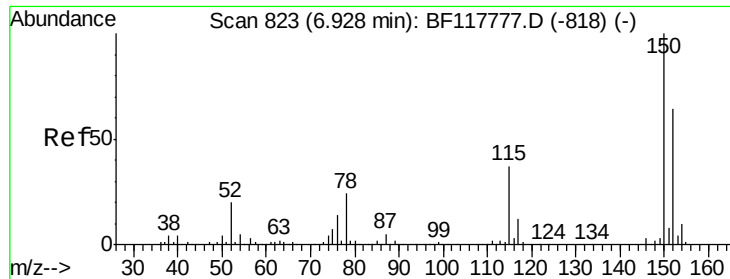
Instrument :  
BNA\_F  
ClientSampleId :  
3-(6-8)

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Quant Time: Nov 19 00:39:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 13 18:36:07 2019  
Response via : Initial Calibration





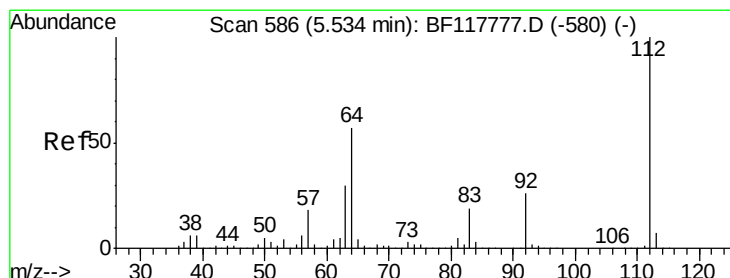
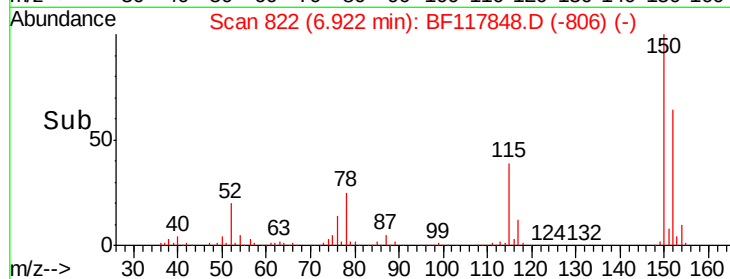
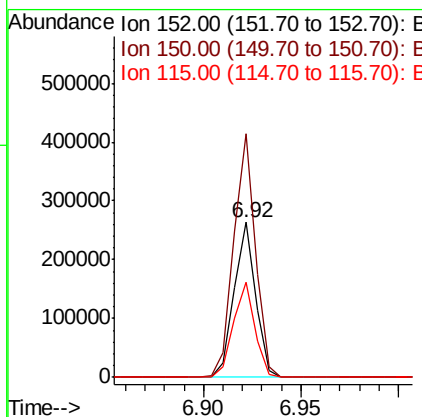
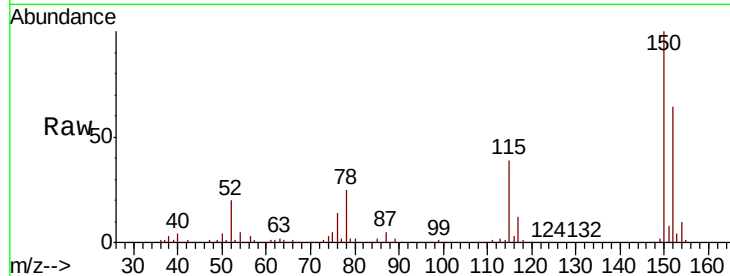
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.92 min Scan# 822  
 Delta R.T. -0.01 min  
 Lab File: BF117848.D  
 Acq: 18 Nov 2019 21:12

Instrument :  
 BNA\_F  
 ClientSampled :  
 3-(6-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.3 | 125.3 | 187.9 |
| 115     | 61.7  | 47.0  | 70.4  |

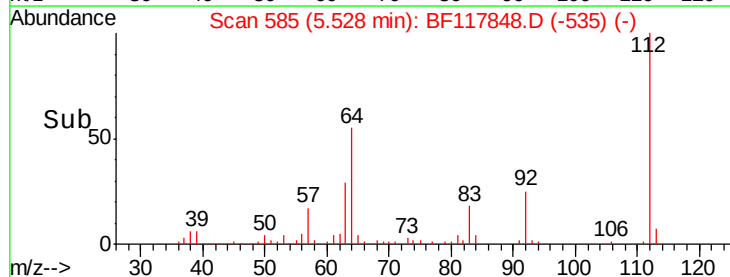
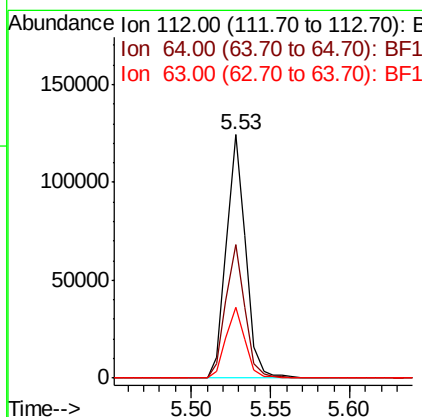
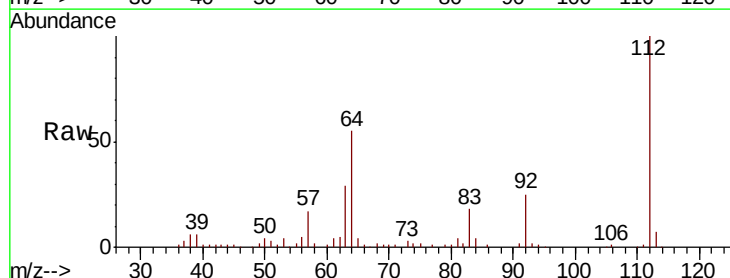
Manual Integrations  
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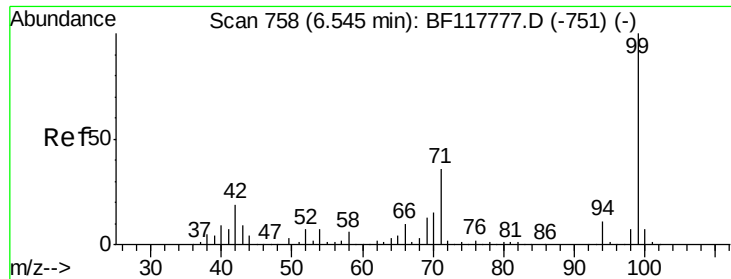
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#5  
 2-Fluorophenol  
 Concen: 9.265 ng  
 RT: 5.53 min Scan# 585  
 Delta R.T. -0.01 min  
 Lab File: BF117848.D  
 Acq: 18 Nov 2019 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.8  | 45.6  | 68.4  |
| 63      | 29.2  | 24.1  | 36.1  |





#7

Phenol-d6

Concen: 66.699 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

Instrument :

BNA\_F

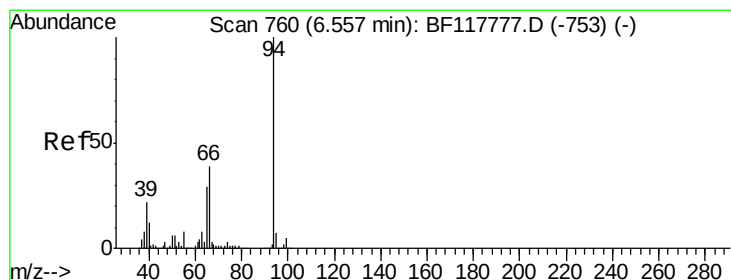
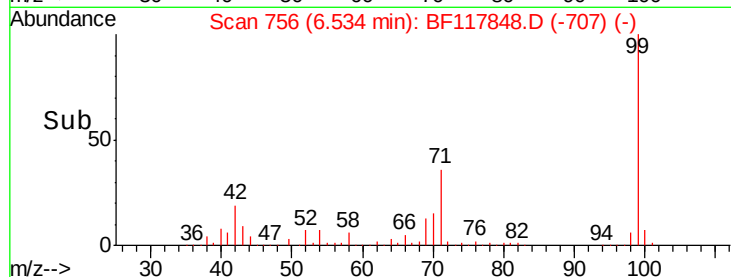
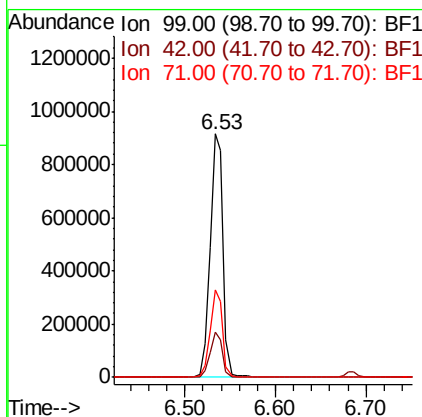
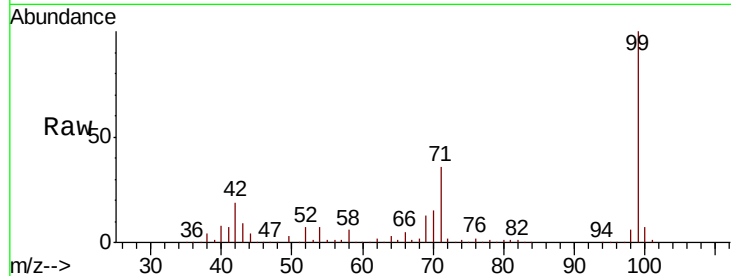
ClientSampleId :

3-(6-8)

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 914199 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.7  | 14.9  | 22.3   |
| 71       | 36.0  | 28.6  | 43.0   |

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#10

Phenol

Concen: 7.785 ng

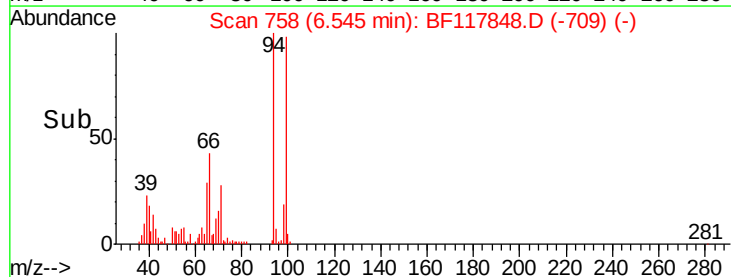
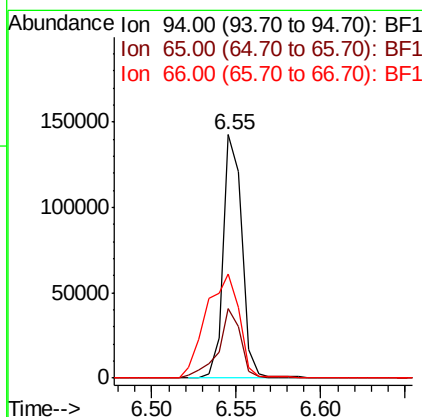
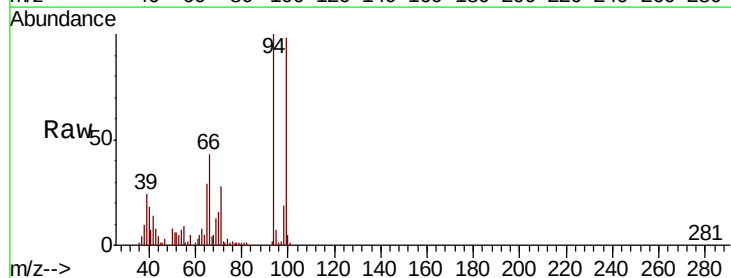
RT: 6.55 min Scan# 758

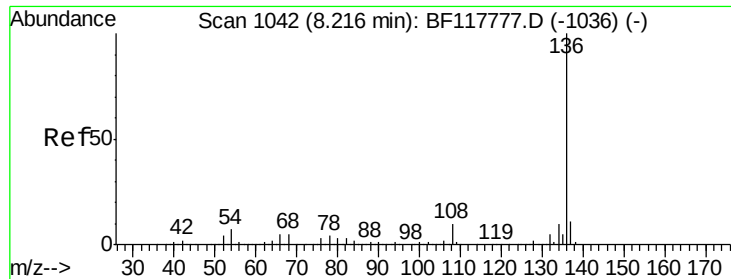
Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 94    | Resp: | 110880 |
| Ion      | Ratio | Lower | Upper  |
| 94       | 100   |       |        |
| 65       | 28.7  | 8.9   | 48.9   |
| 66       | 42.6  | 18.7  | 58.7   |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.21 min Scan# 1041

Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

Instrument :

BNA\_F

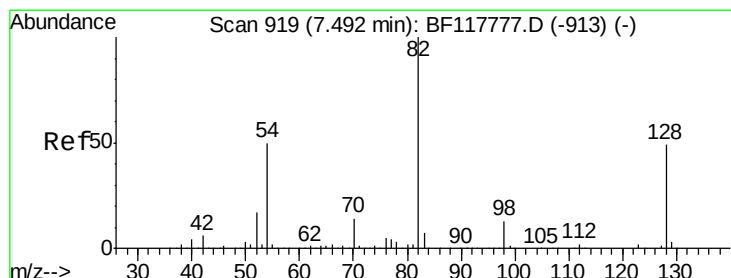
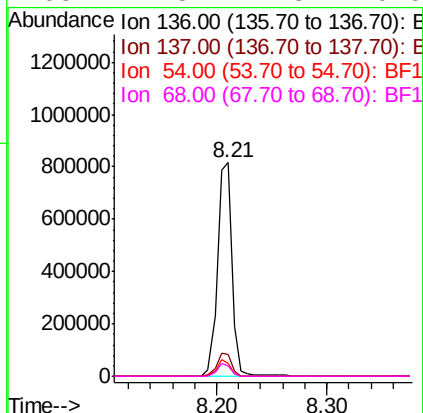
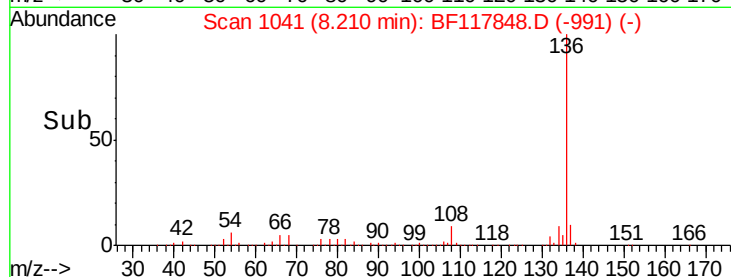
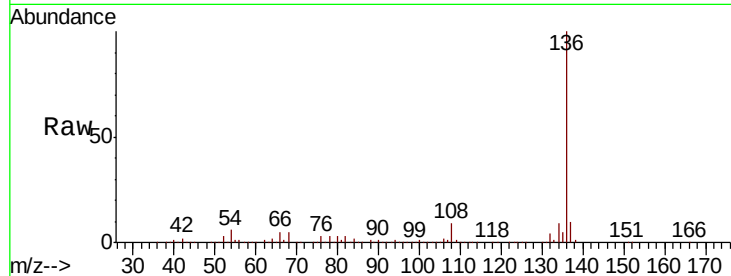
ClientSampleId :

3-(6-8)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.5  | 9.0  | 13.4  |       |
| 54      | 6.3   | 5.4  | 8.2   |       |
| 68      | 4.8   | 4.3  | 6.5   |       |

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#23

Nitrobenzene-d5

Concen: 71.221 ng

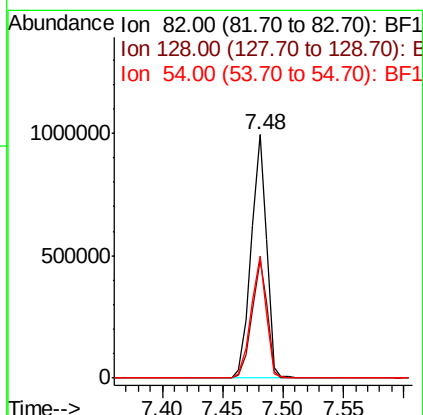
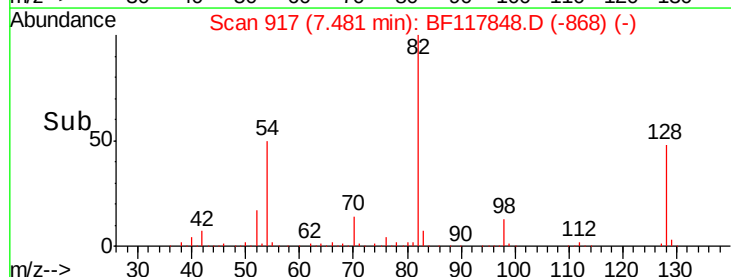
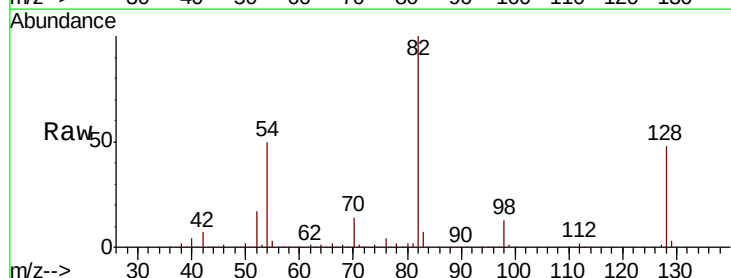
RT: 7.48 min Scan# 917

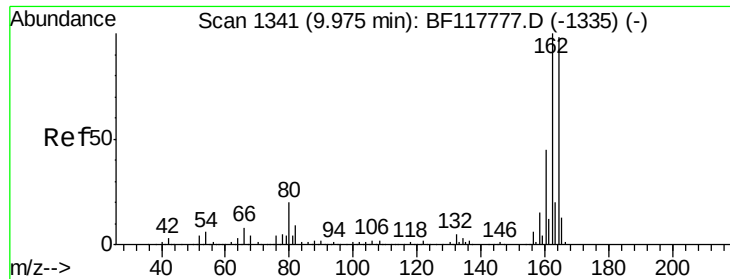
Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 48.3  | 38.9 | 58.3  |       |
| 54      | 50.3  | 39.8 | 59.6  |       |





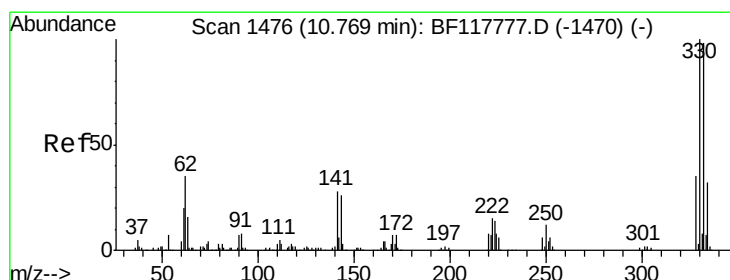
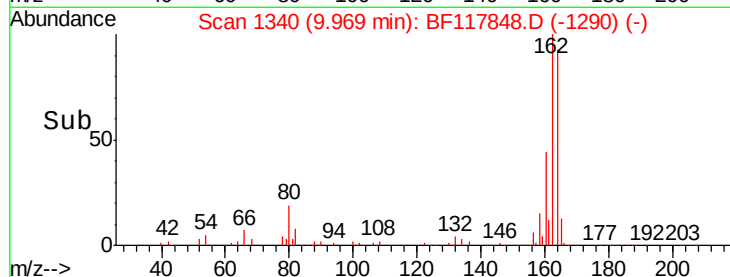
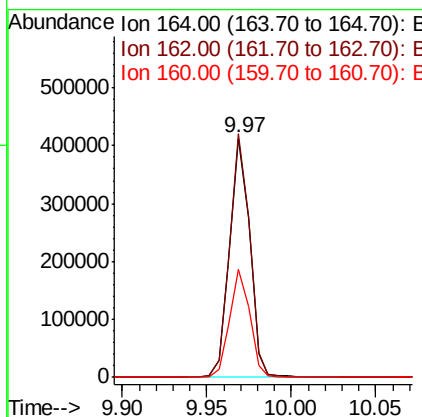
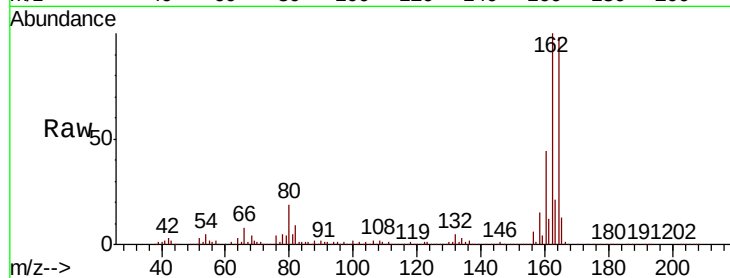
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.97 min Scan# 1340  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

Instrument :  
BNA\_F  
ClientSampleId :  
3-(6-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.9 | 81.3  | 121.9 |
| 160     | 45.0  | 36.6  | 55.0  |

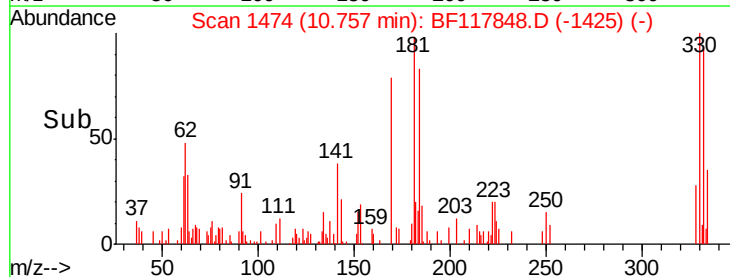
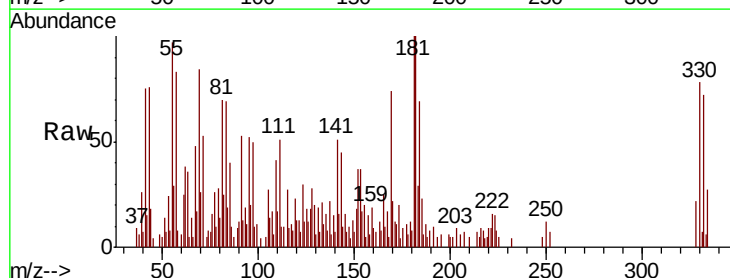
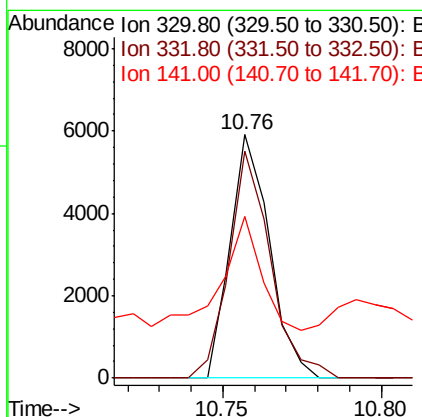
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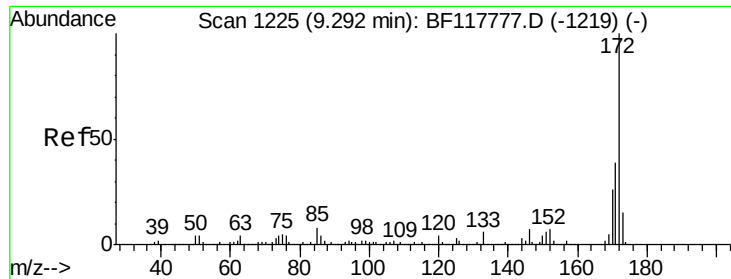
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#42  
2,4,6-Tribromophenol  
Concen: 1.395 ng  
RT: 10.76 min Scan# 1474  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.4  | 76.7  | 115.1 |
| 141     | 47.3  | 27.7  | 41.5# |





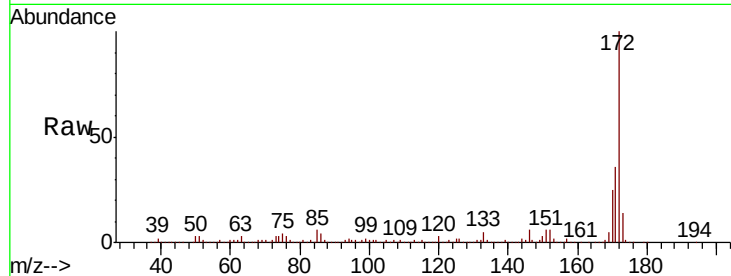
#45  
2-Fluorobiphenyl  
Concen: 85.561 ng  
RT: 9.29 min Scan# 1224  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

Instrument :  
BNA\_F  
ClientSampleId :  
3-(6-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 30.9  | 46.3  |
| 170     | 24.7  | 21.0  | 31.4  |

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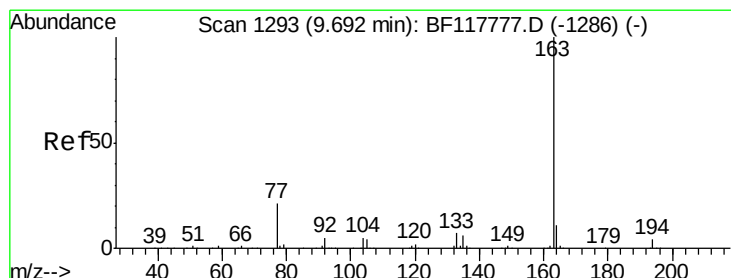
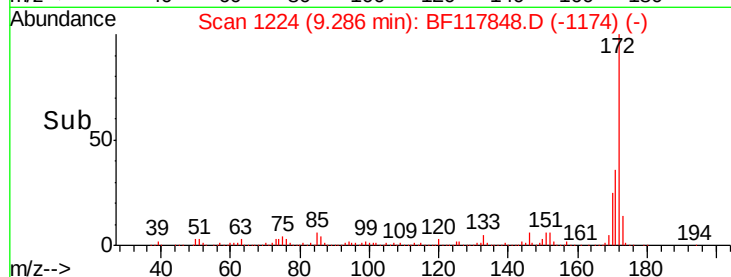
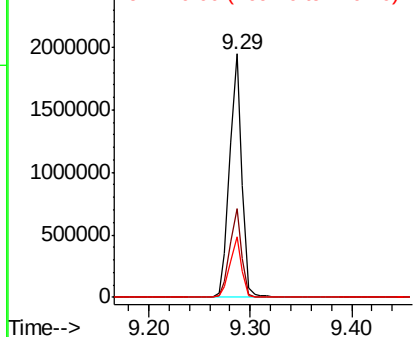


Abundance

Ion 172.00 (171.70 to 172.70): E

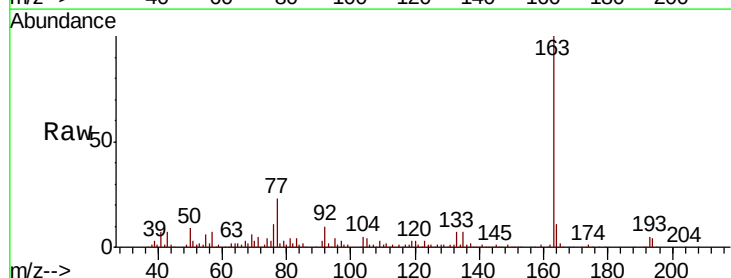
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 7.596 ng  
RT: 9.67 min Scan# 1290  
Delta R.T. -0.02 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.4   | 3.3   | 4.9   |
| 164     | 10.8  | 8.7   | 13.1  |

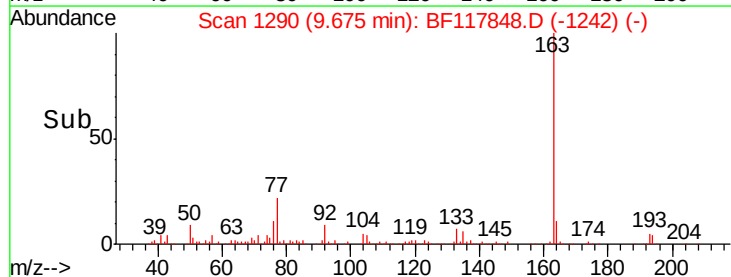
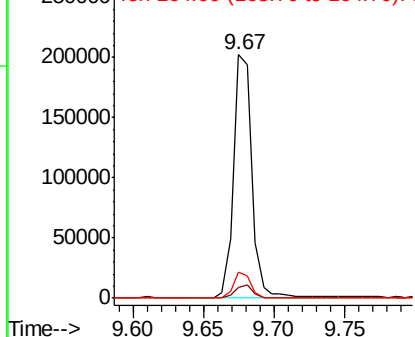


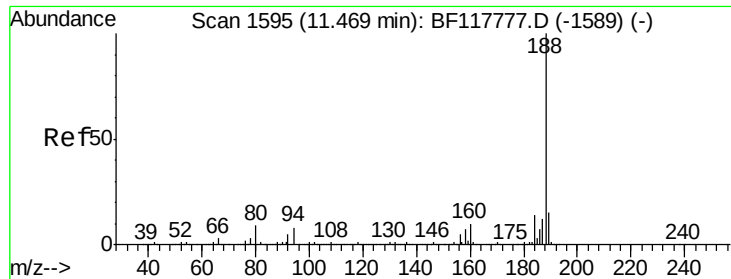
Abundance

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

Instrument :

BNA\_F

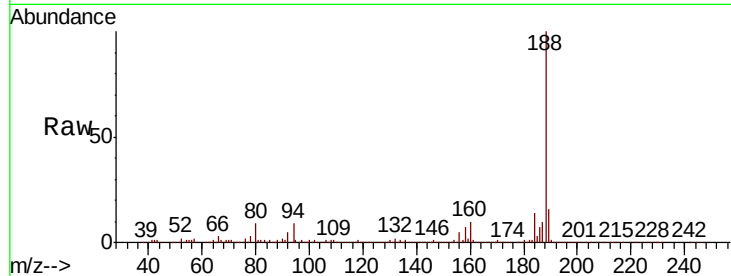
ClientSampleId :

3-(6-8)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 570173 |       |       |
| 94      | 8.7   | 6.6    | 10.0  |       |
| 80      | 9.2   | 7.2    | 10.8  |       |

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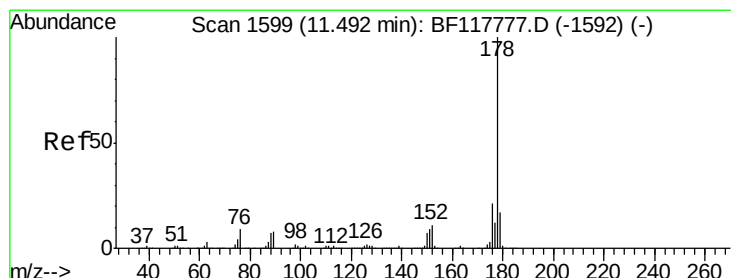
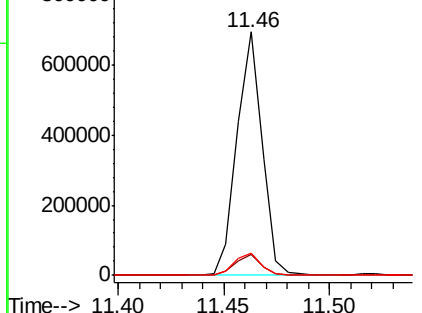
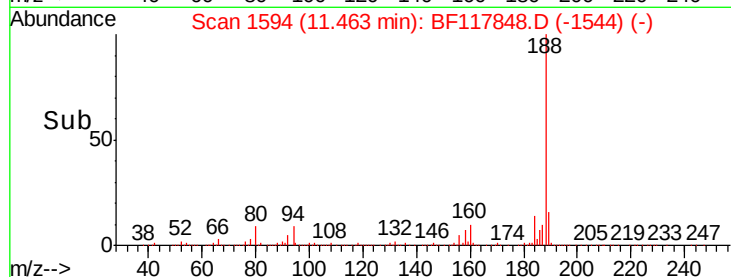
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 9.036 ng

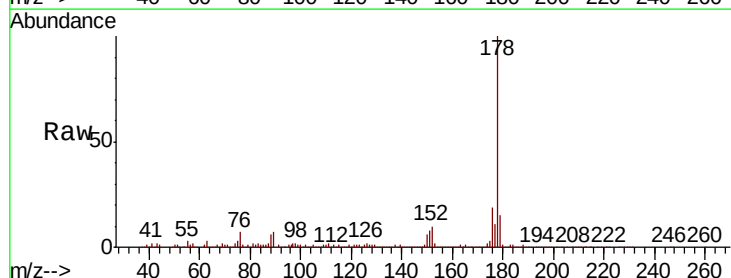
RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

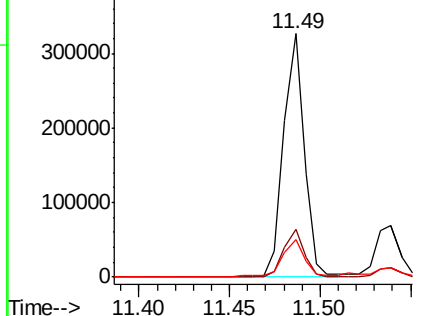
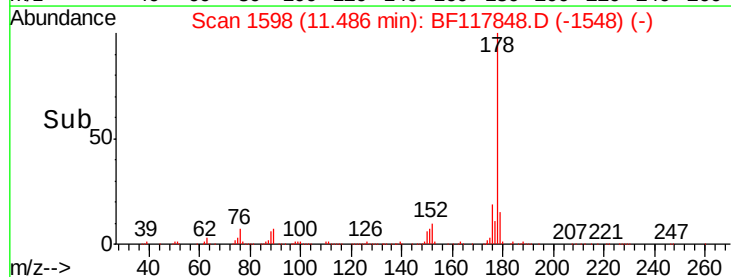
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 259022 |       |       |
| 176     | 19.5  | 16.6   | 25.0  |       |
| 179     | 15.4  | 13.2   | 19.8  |       |



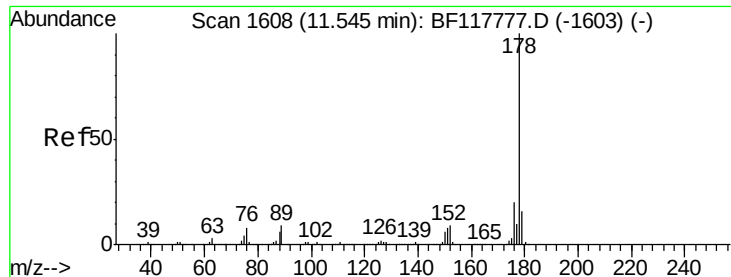
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#72

Anthracene

Concen: 2.106 ng

RT: 11.54 min Scan# 1607

Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

Instrument :

BNA\_F

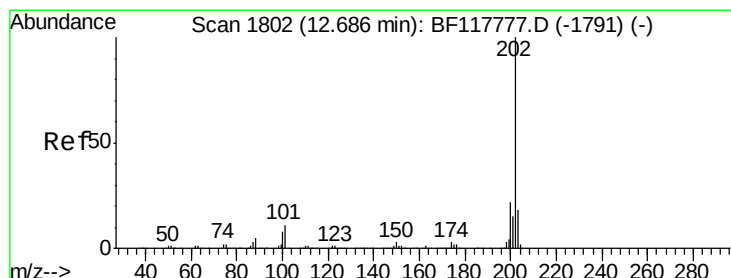
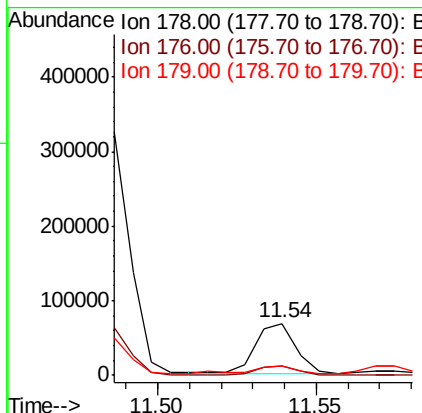
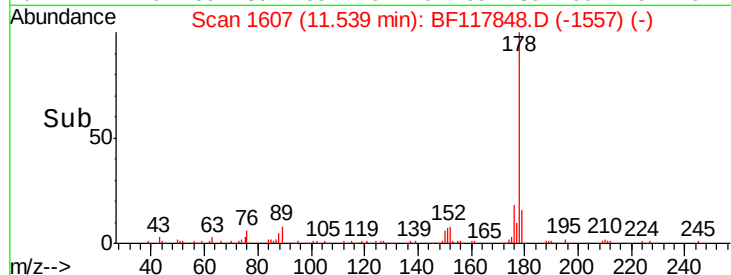
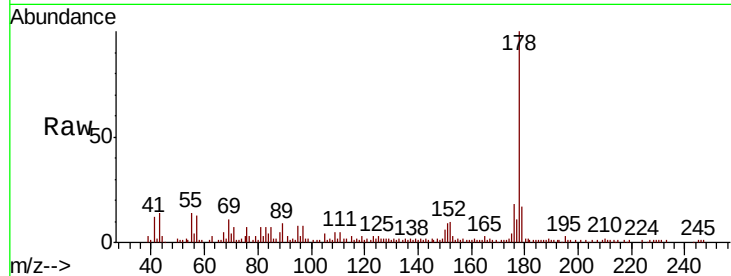
ClientSampleId :

3-(6-8)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 59844 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.5  | 16.1  | 24.1  |
| 179       | 17.2  | 13.0  | 19.4  |

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#75

Fluoranthene

Concen: 7.829 ng

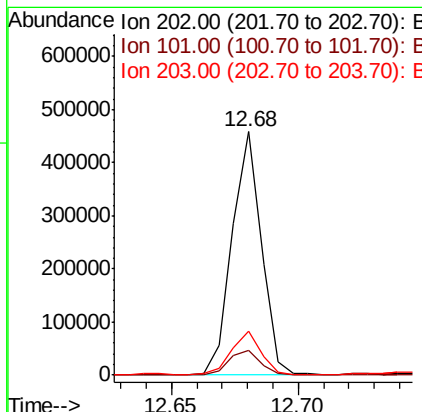
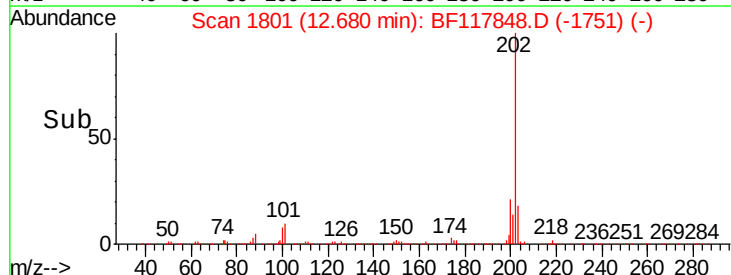
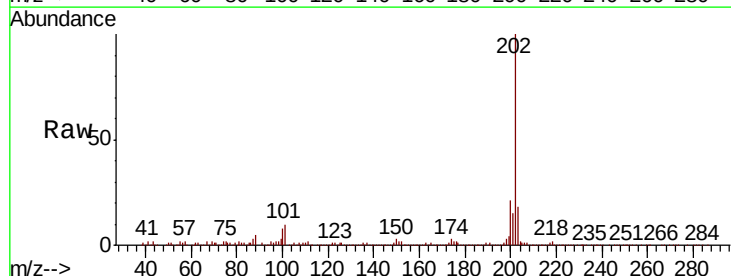
RT: 12.68 min Scan# 1801

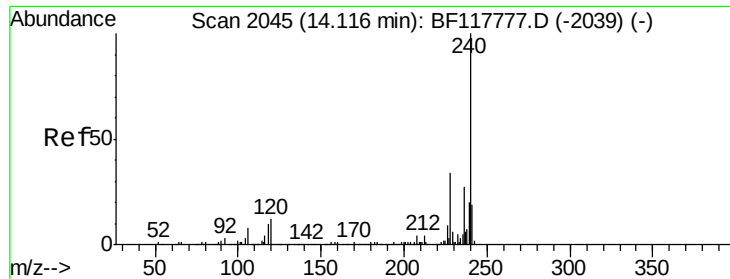
Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 366618 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.4  | 0.0   | 31.1   |
| 203       | 17.8  | 0.0   | 38.2   |





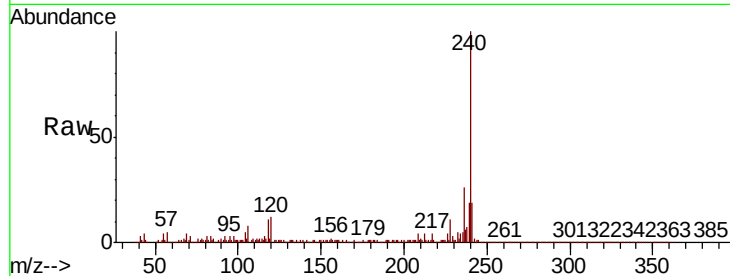
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.11 min Scan# 2044  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

Instrument :  
BNA\_F  
ClientSampleId :  
3-(6-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.9  | 9.5   | 14.3  |
| 236     | 26.2  | 21.3  | 31.9  |

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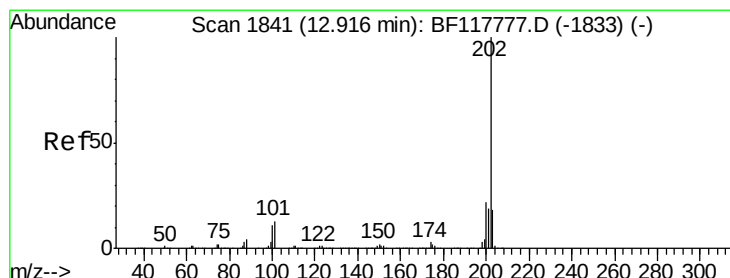
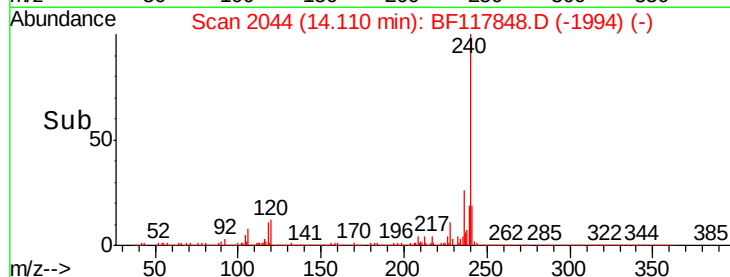
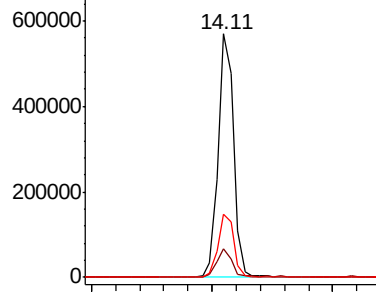


Abundance

Ion 240.00 (239.70 to 240.70): E

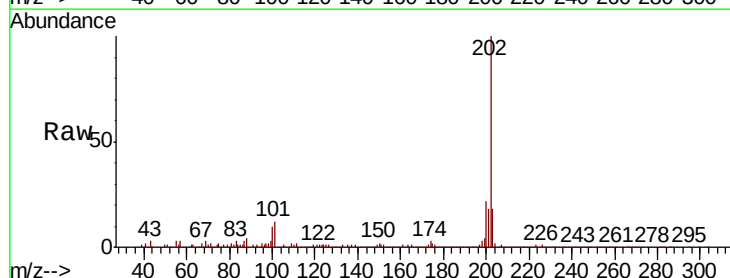
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78  
Pyrene  
Concen: 8.655 ng  
RT: 12.91 min Scan# 1840  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.5  | 17.8  | 26.8  |
| 203     | 17.8  | 14.6  | 22.0  |

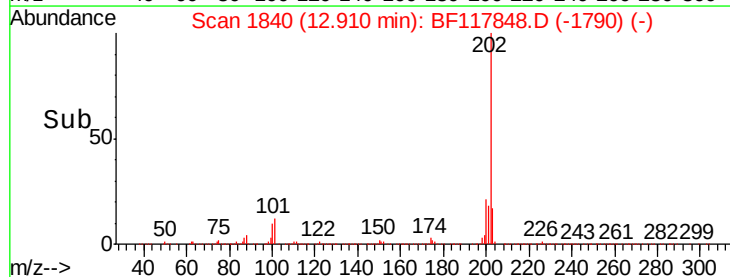
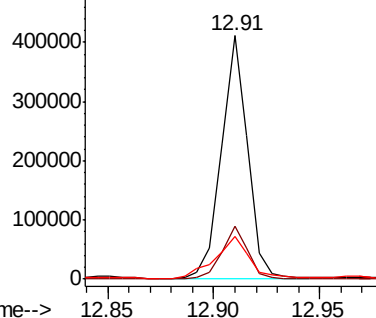


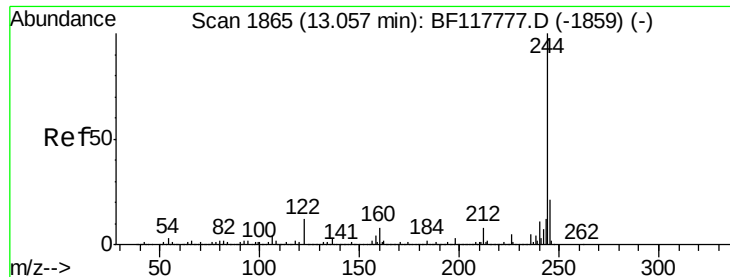
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 61.835 ng

RT: 13.05 min Scan# 1864

Delta R.T. -0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

Instrument :

BNA\_F

ClientSampleId :

3-(6-8)

Tot Ion:244 Resp: 1716305

Ion Ratio Lower Upper

244 100

212 7.2 6.3 9.5

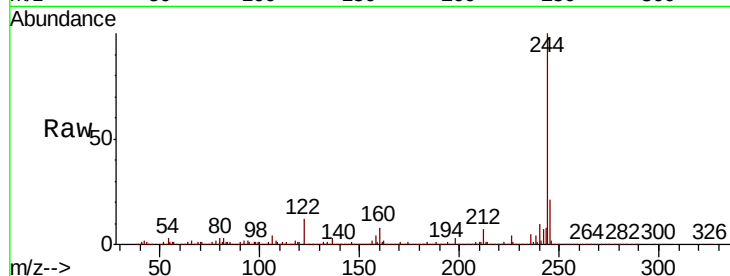
122 12.2 9.4 14.2

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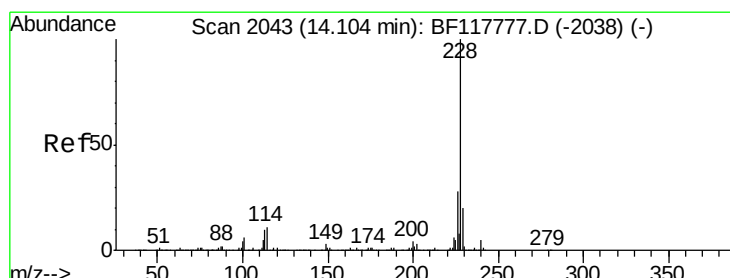
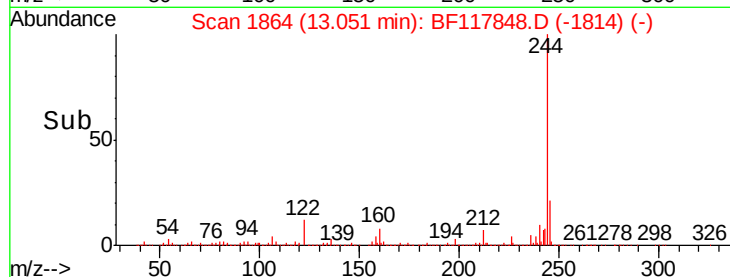
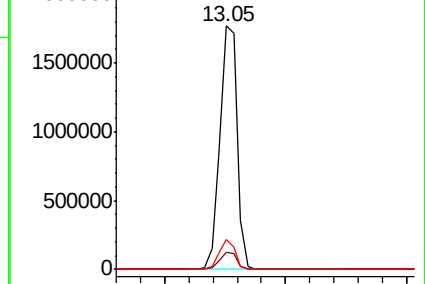
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 5.393 ng

RT: 14.10 min Scan# 2043

Delta R.T. 0.00 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

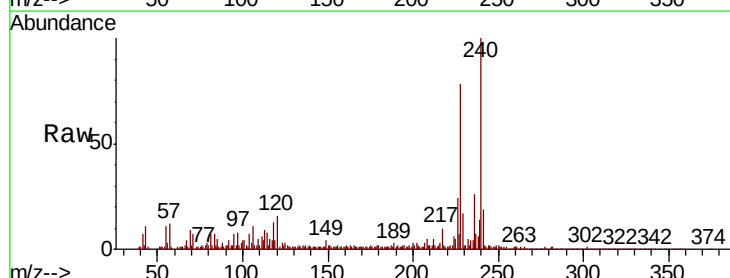
Tgt Ion:228 Resp: 180779

Ion Ratio Lower Upper

228 100

226 31.2 22.2 33.2

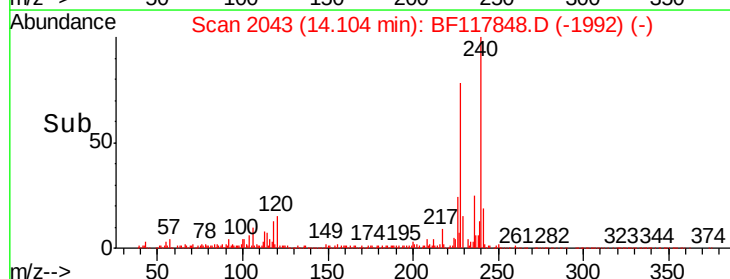
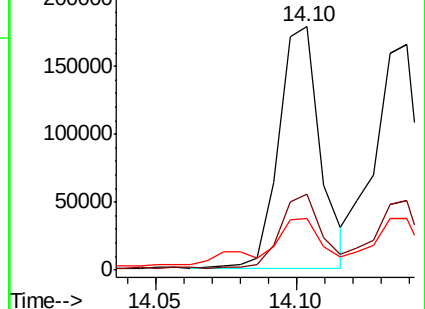
229 21.4 15.9 23.9

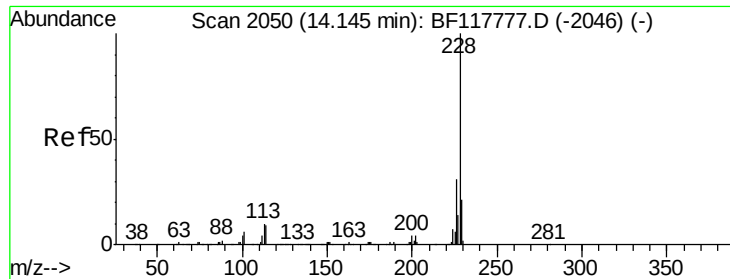


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





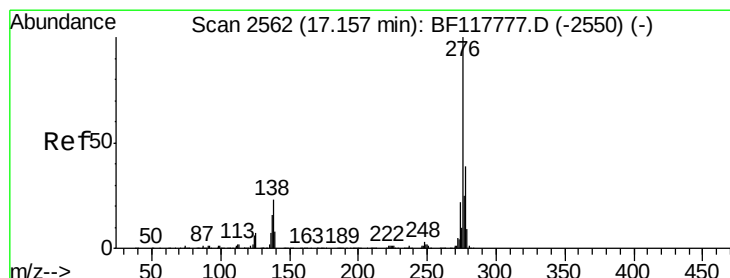
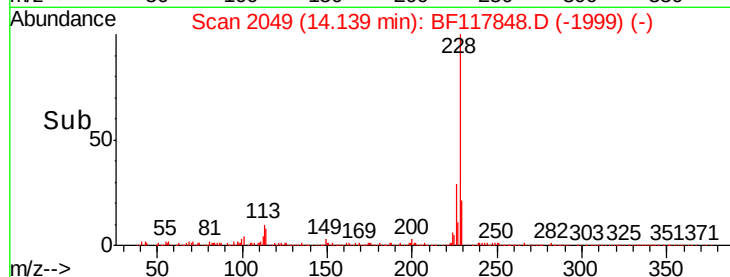
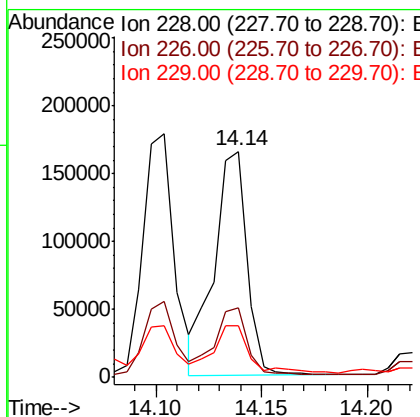
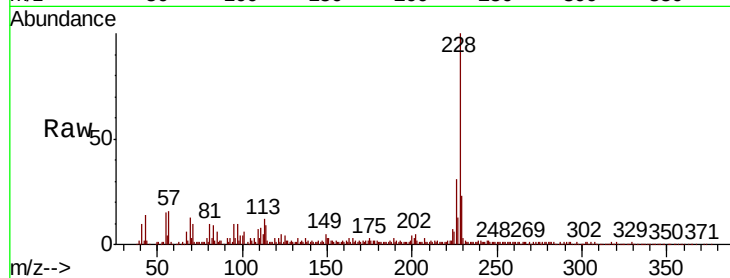
#83  
Chrysene  
Concen: 5.466 ng  
RT: 14.14 min Scan# 2049  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

Instrument :  
BNA\_F  
ClientSampleId :  
3-(6-8)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 177540 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.5  | 25.0  | 37.4   |
| 229       | 23.1  | 16.6  | 25.0   |

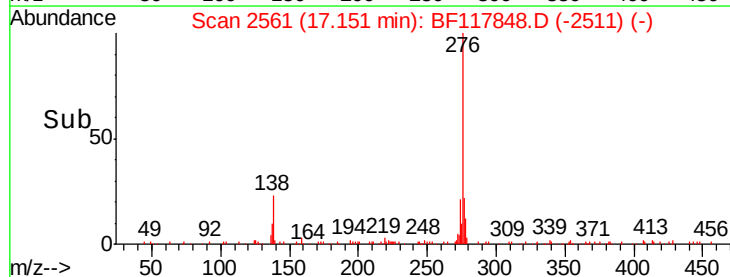
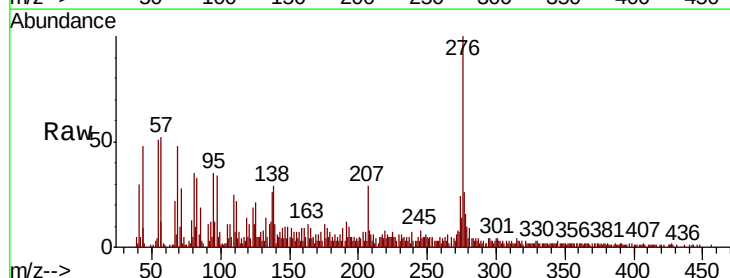
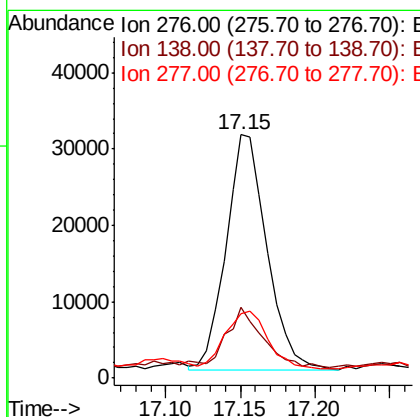
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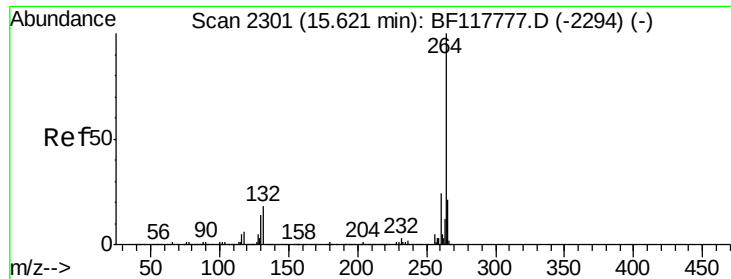
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#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.122 ng  
RT: 17.15 min Scan# 2561  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 58652 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 23.0  | 20.9  | 31.3  |
| 277       | 26.1  | 20.3  | 30.5  |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.63 min Scan# 2302

Delta R.T. 0.01 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

Instrument :

BNA\_F

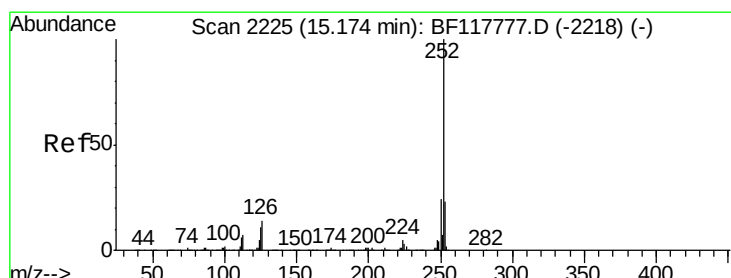
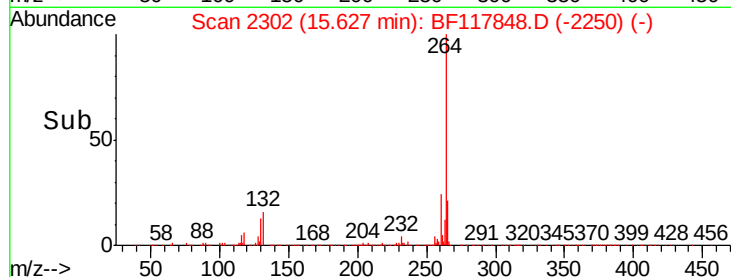
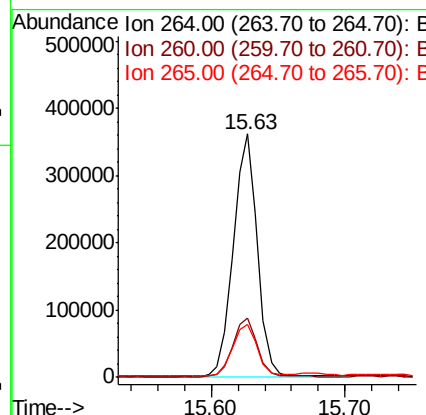
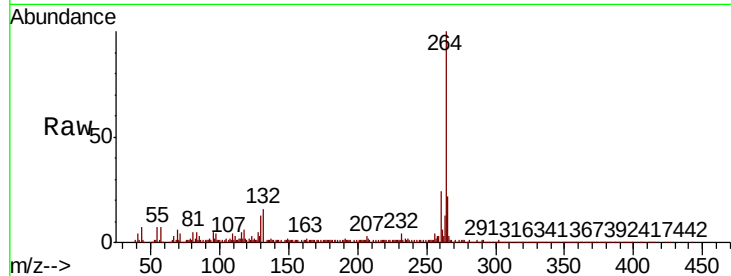
ClientSampleId :

3-(6-8)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 454390 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.3  | 19.4  | 29.0   |
| 265       | 21.5  | 17.1  | 25.7   |

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#88

Benzo(b)fluoranthene

Concen: 6.459 ng m

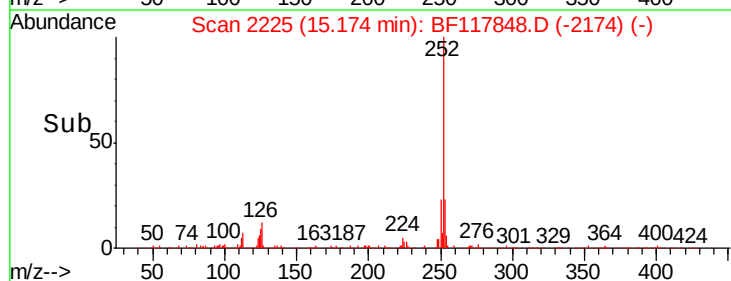
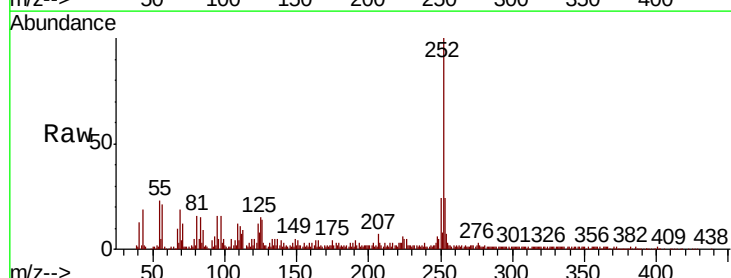
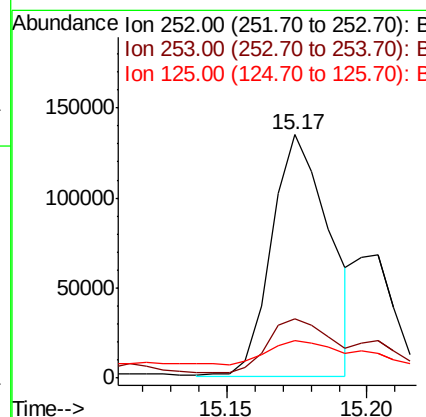
RT: 15.17 min Scan# 2225

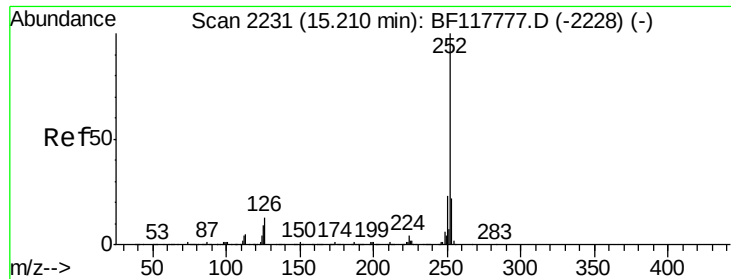
Delta R.T. 0.00 min

Lab File: BF117848.D

Acq: 18 Nov 2019 21:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 190688 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 18.0  | 27.0   |
| 125       | 15.3  | 8.6   | 13.0#  |





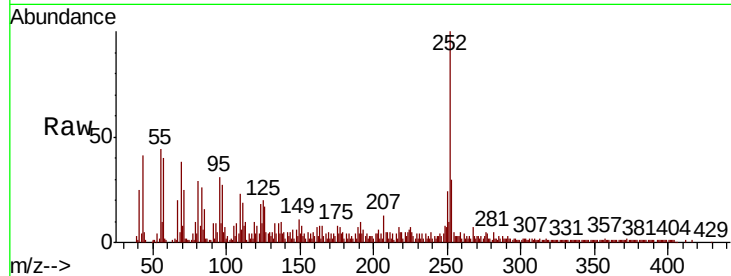
#89  
Benzo(k)fluoranthene  
Concen: 2.322 ng m  
RT: 15.20 min Scan# 2230  
Delta R.T. -0.01 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

Instrument :  
BNA\_F  
ClientSampled :  
3-(6-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.4  | 17.5  | 26.3# |
| 125     | 20.5  | 7.9   | 11.9# |

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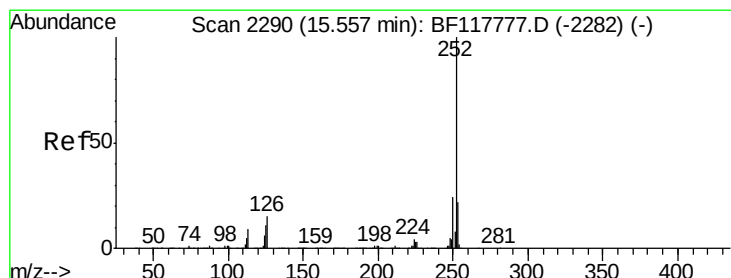
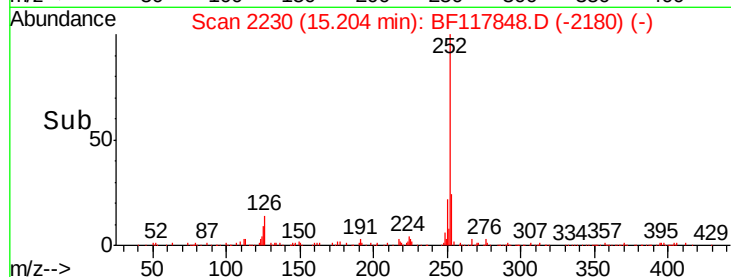
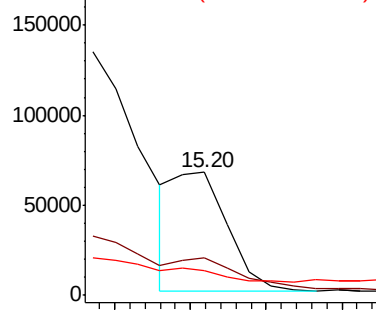


Abundance

Ion 252.00 (251.70 to 252.70): E

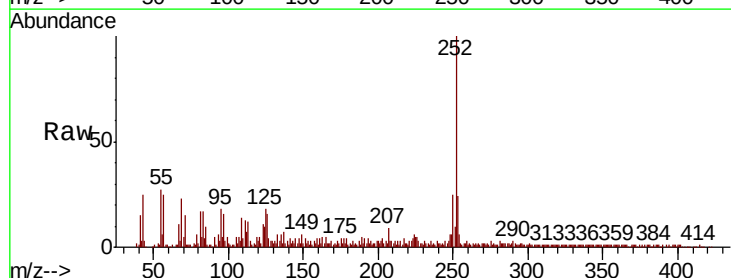
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90  
Benzo(a)pyrene  
Concen: 4.761 ng  
RT: 15.56 min Scan# 2290  
Delta R.T. 0.00 min  
Lab File: BF117848.D  
Acq: 18 Nov 2019 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.8  | 26.6  |
| 125     | 17.6  | 9.2   | 13.8# |

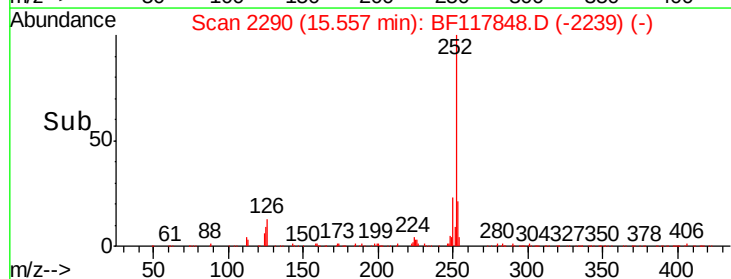
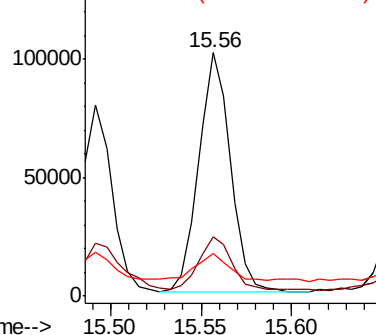


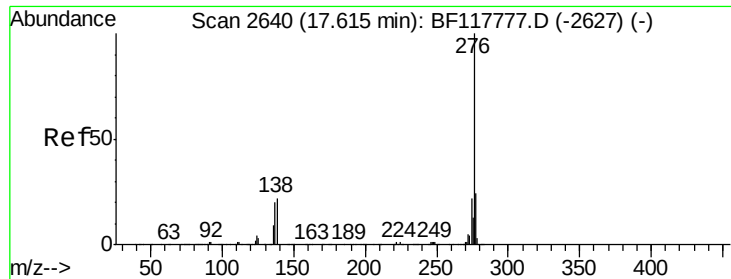
Abundance

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





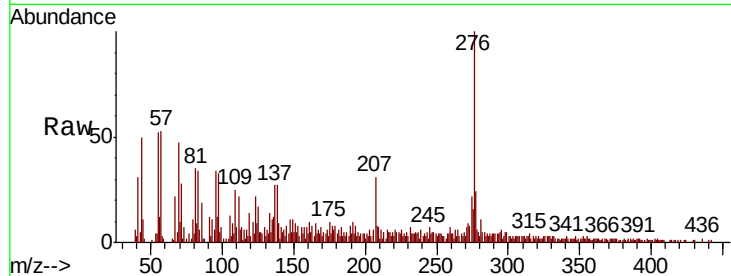
#92  
 Benzo(a,h,i)perylene  
 Concen: 2.716 ng  
 RT: 17.62 min Scan# 2641  
 Delta R.T. 0.01 min  
 Lab File: BF117848.D  
 Acq: 18 Nov 2019 21:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 3-(6-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.4  | 18.9  | 28.3  |
| 138     | 26.8  | 17.4  | 26.2  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

