

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\  
 Data File : BF117857.D  
 Acq On : 19 Nov 2019 14:15  
 Operator : JU  
 Sample : K5832-19RX  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 5-(10-12)RX

Manual Integrations  
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 11/21/2019 9:03:49 AM

Quant Time: Nov 20 11:33:29 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 20 11:06:58 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.92  | 152  | 226837   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.20  | 136  | 919339   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.96  | 164  | 493069   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.46 | 188  | 918693   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12            | 14.10 | 240  | 581444   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12            | 15.62 | 264  | 551713   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.52  | 112  | 360843   | 28.16  | ng    | -0.01    |
| 7) Phenol-d6                | 6.53  | 99   | 1416558  | 91.65  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.47  | 82   | 929884   | 60.13  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.75 | 330  | 40444    | 7.75   | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.28  | 172  | 1825522  | 66.42  | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.05 | 244  | 2024063  | 63.62  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.55  | 94   | 89603    | 5.579  | ng    | 98       |
| 50) Dimethylphthalate       | 9.67  | 163  | 359423   | 10.395 | ng    | 98       |
| 71) Phenanthrene            | 11.48 | 178  | 118589   | 2.567  | ng    | 96       |
| 75) Fluoranthene            | 12.67 | 202  | 282122   | 6.314  | ng    | 99       |
| 78) Pyrene                  | 12.90 | 202  | 284976   | 6.065  | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.09 | 228  | 118438   | 3.083  | ng    | 97       |
| 83) Chrysene                | 14.13 | 228  | 137386   | 3.690  | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene  | 17.13 | 276  | 64613    | 2.039  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 15.16 | 252  | 170907m  | 4.768  | ng    |          |
| 90) Benzo(a)pyrene          | 15.54 | 252  | 85951    | 2.727  | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 17.60 | 276  | 60615    | 2.243  | ng    | 99       |

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

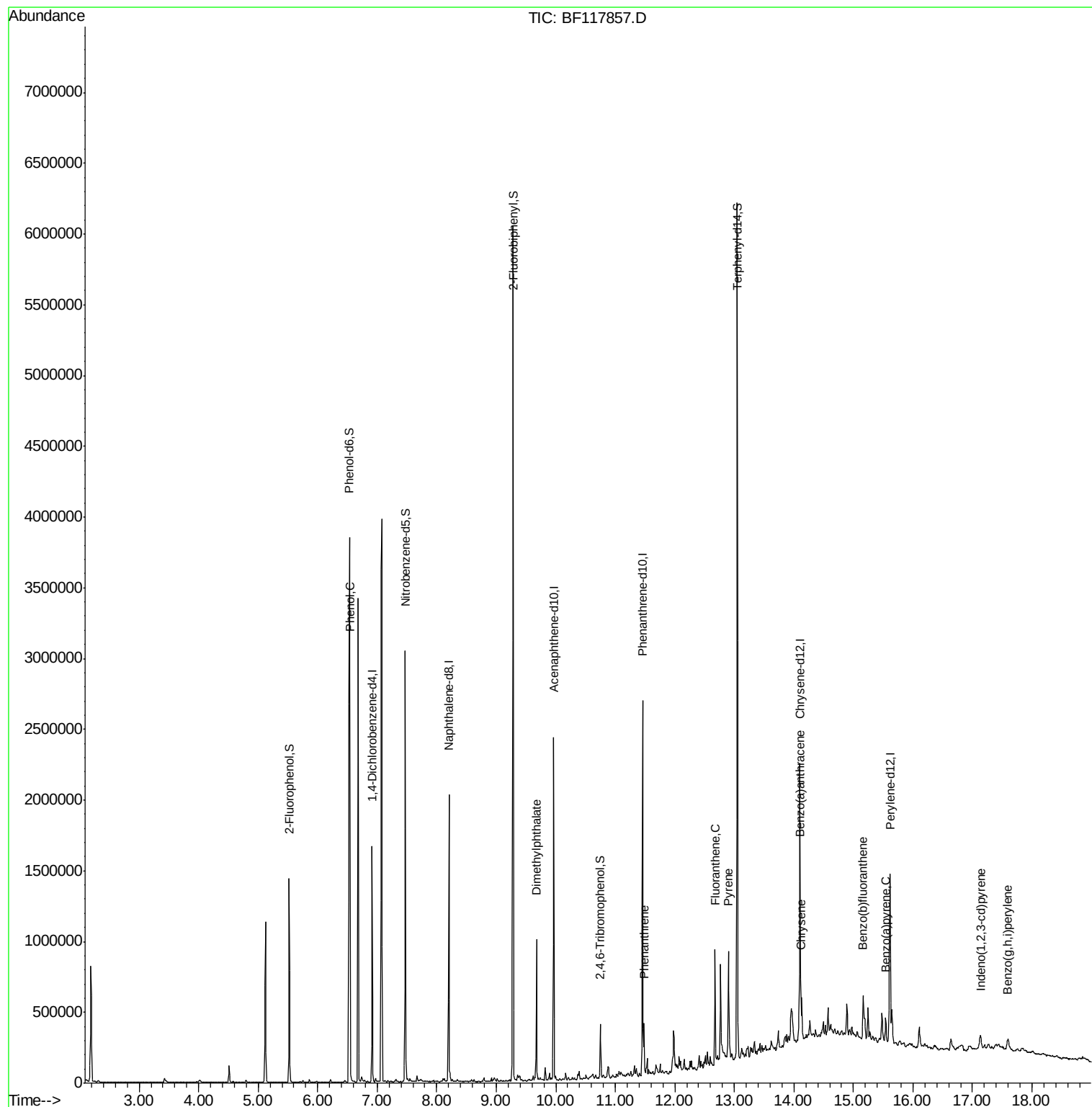
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\  
Data File : BF117857.D  
Acq On : 19 Nov 2019 14:15  
Operator : JU  
Sample : K5832-19RX  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

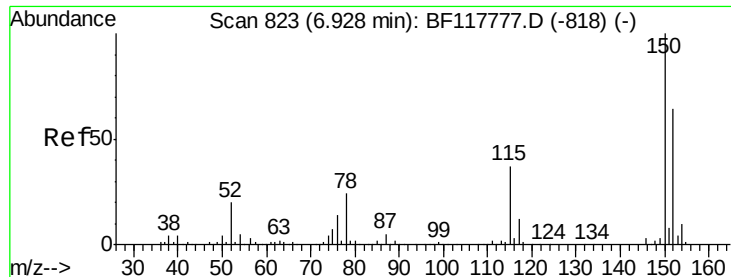
Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

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Quant Time: Nov 20 11:33:29 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 20 11:06:58 2019  
Response via : Initial Calibration





#1

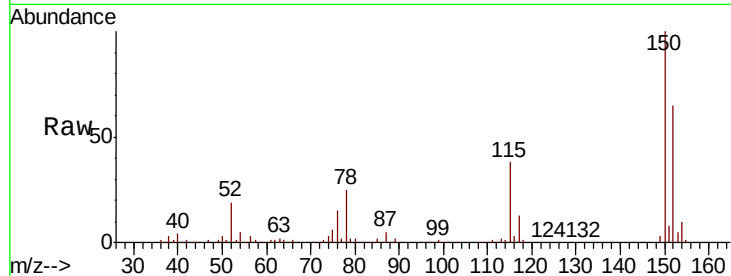
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.92 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.4 | 125.3 | 187.9 |
| 115     | 59.4  | 47.0  | 70.4  |

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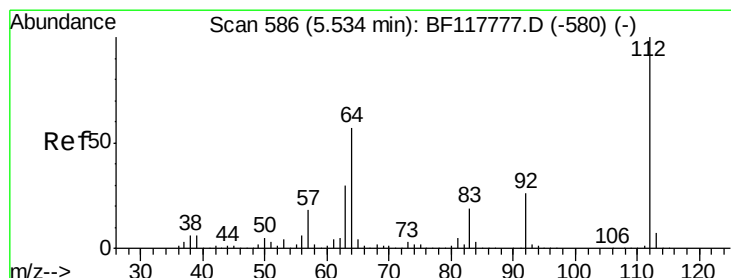
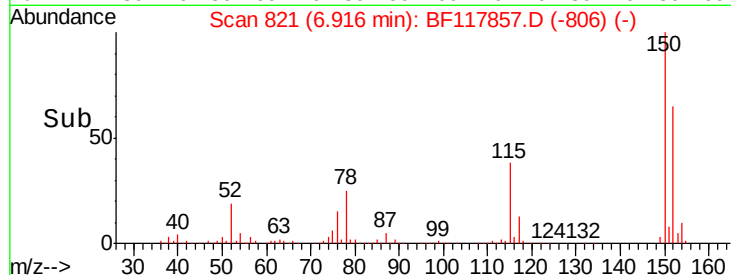
Abundance

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

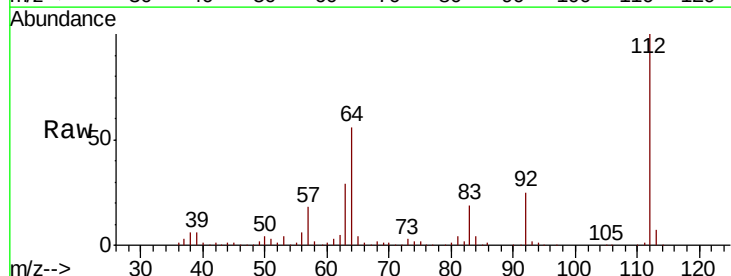
Time-->



#5

2-Fluorophenol  
Concen: 28.158 ng  
RT: 5.52 min Scan# 584  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.7  | 45.6  | 68.4  |
| 63      | 28.9  | 24.1  | 36.1  |



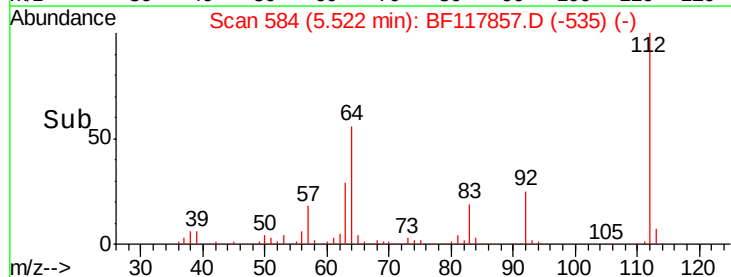
Abundance

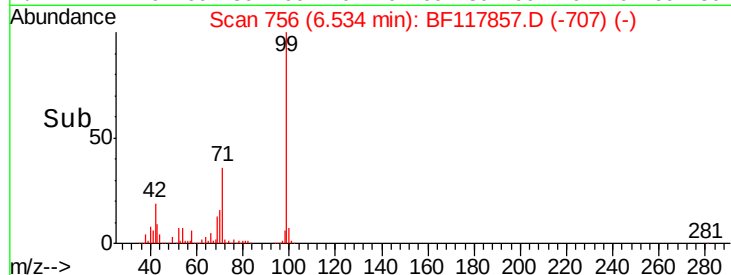
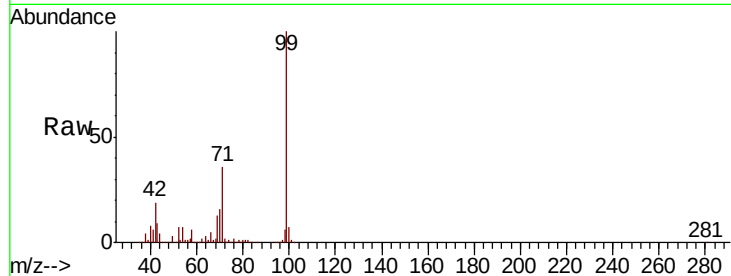
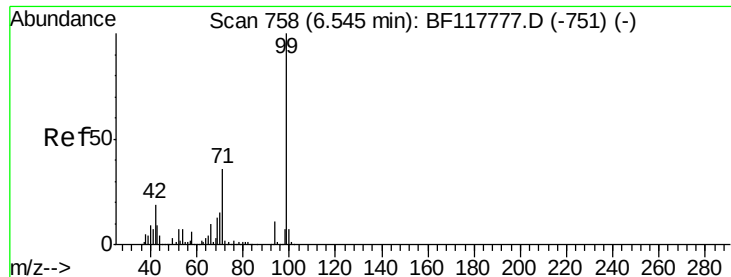
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 91.646 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF117857.D

Acq: 19 Nov 2019 14:15

Tot Ion: 99 Resp: 1416558

Ion Ratio Lower Upper

99 100

42 18.9 14.9 22.3

71 36.3 28.6 43.0

Instrument :

BNA\_F

ClientSampleId :

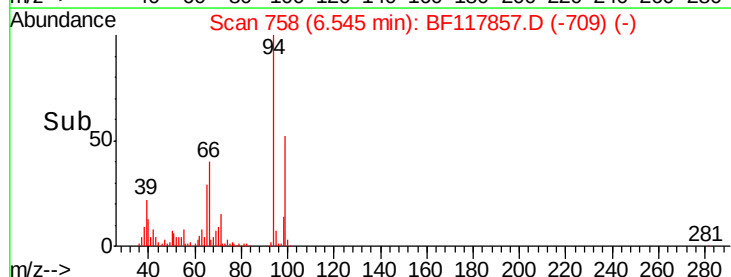
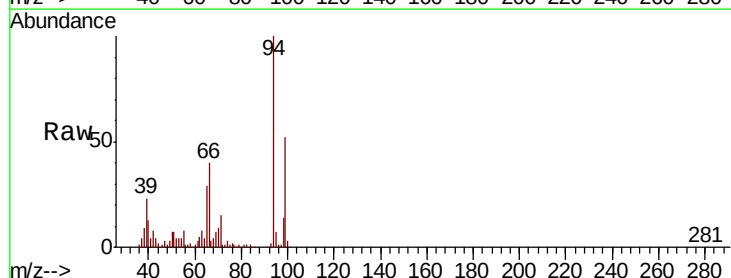
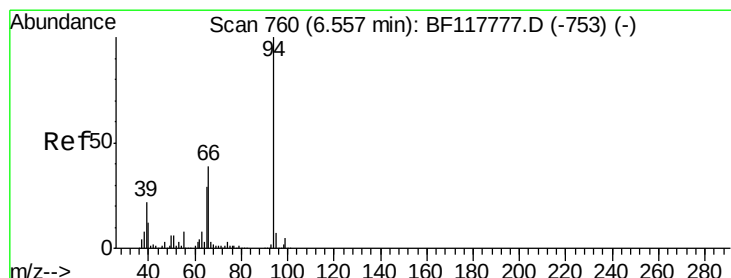
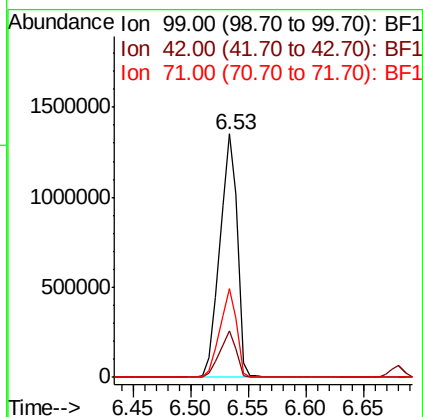
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#10

Phenol

Concen: 5.579 ng

RT: 6.55 min Scan# 758

Delta R.T. -0.01 min

Lab File: BF117857.D

Acq: 19 Nov 2019 14:15

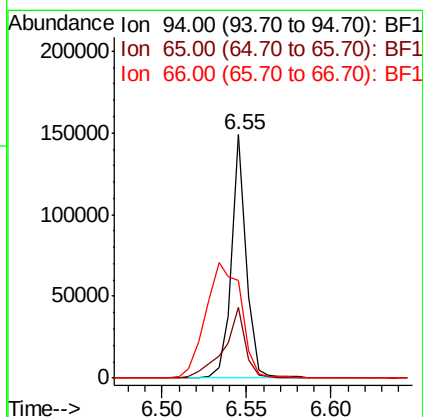
Tgt Ion: 94 Resp: 89603

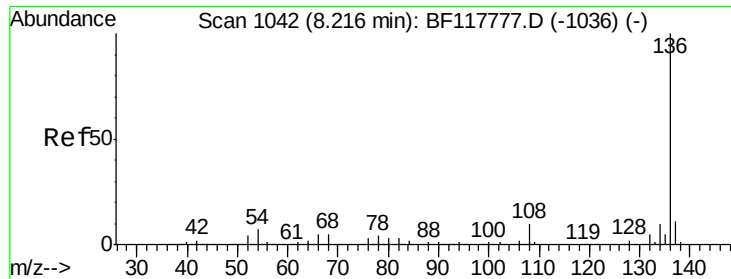
Ion Ratio Lower Upper

94 100

65 29.1 8.9 48.9

66 40.3 18.7 58.7





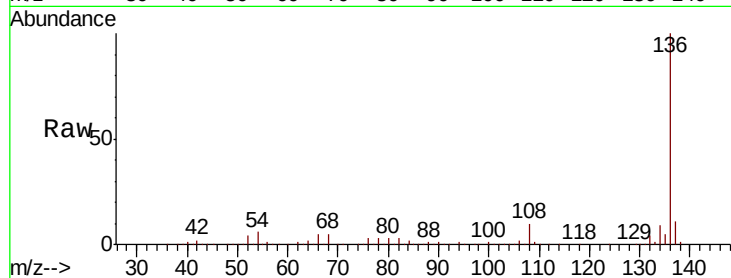
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

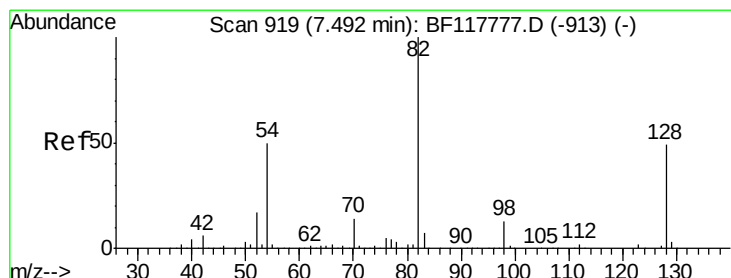
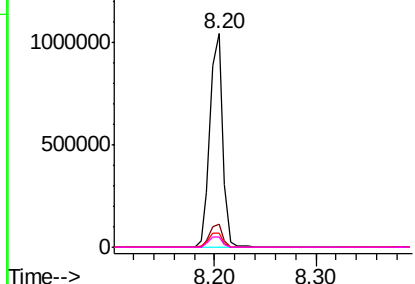
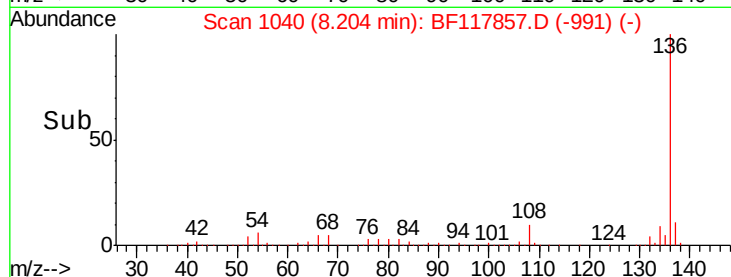
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.6  | 9.0  | 13.4  |       |
| 54      | 6.5   | 5.4  | 8.2   |       |
| 68      | 5.0   | 4.3  | 6.5   |       |

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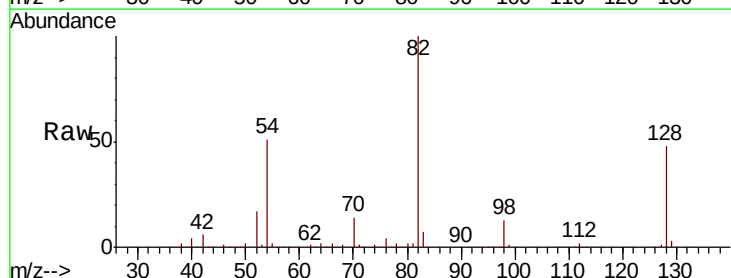


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

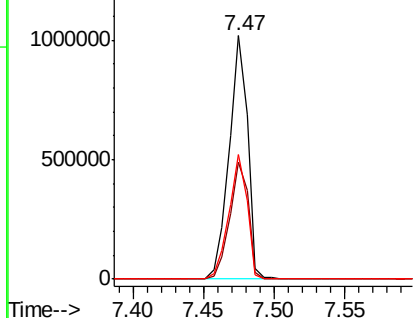
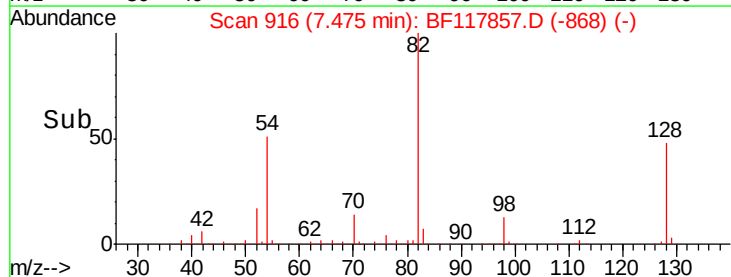


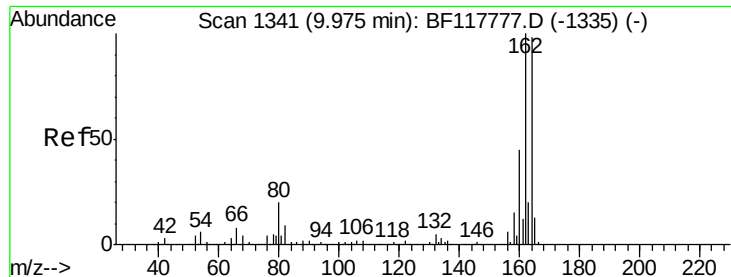
#23  
Nitrobenzene-d5  
Concen: 60.128 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 47.8  | 38.9 | 58.3  |       |
| 54      | 51.3  | 39.8 | 59.6  |       |



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





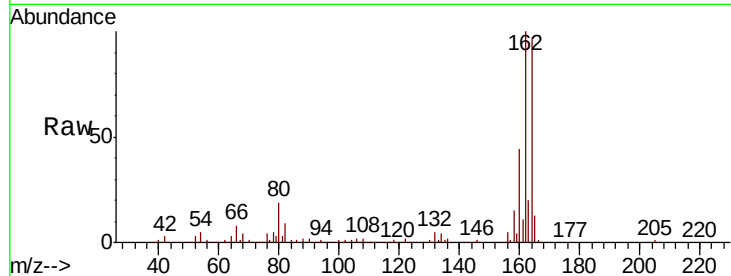
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.96 min Scan# 1339  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

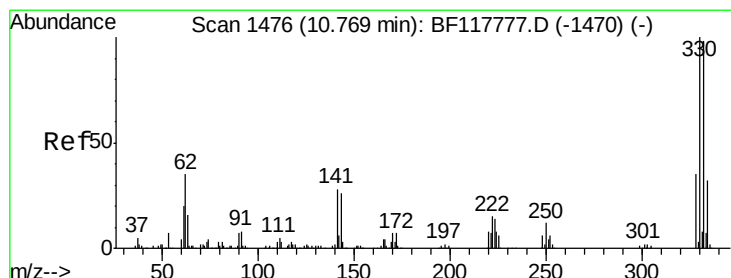
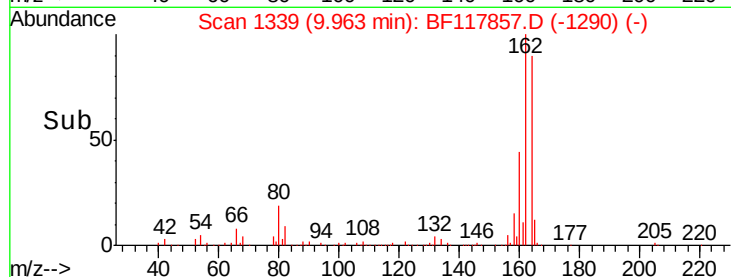
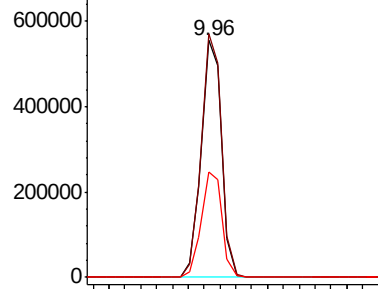
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.9 | 81.3  | 121.9 |
| 160     | 44.8  | 36.6  | 55.0  |

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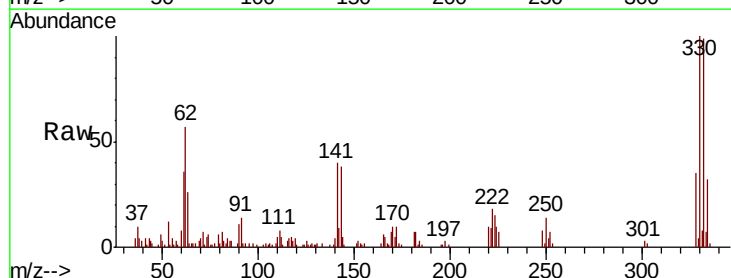


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

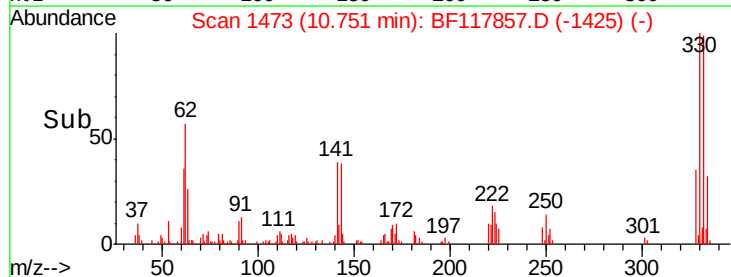
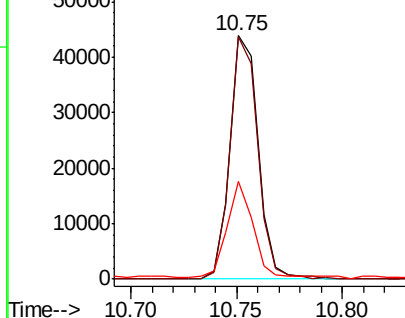


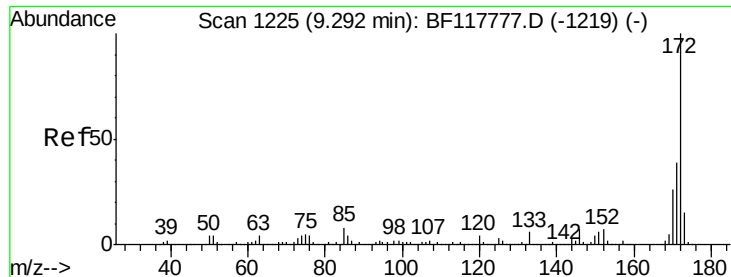
#42  
2,4,6-Tribromophenol  
Concen: 7.748 ng  
RT: 10.75 min Scan# 1473  
Delta R.T. -0.02 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 76.7  | 115.1 |
| 141     | 35.1  | 27.7  | 41.5  |



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





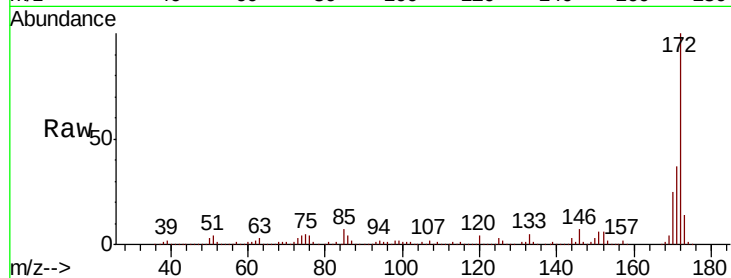
#45  
2-Fluorobiphenyl  
Concen: 66.422 ng  
RT: 9.28 min Scan# 1223  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 30.9  | 46.3  |
| 170     | 24.9  | 21.0  | 31.4  |

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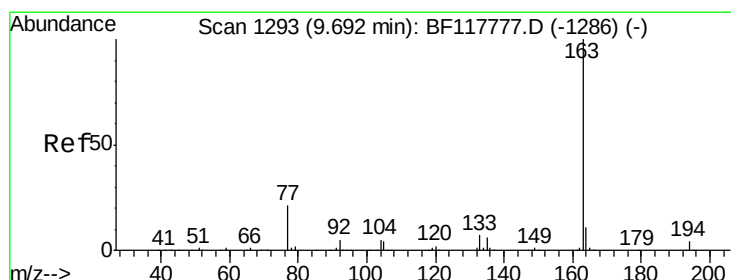
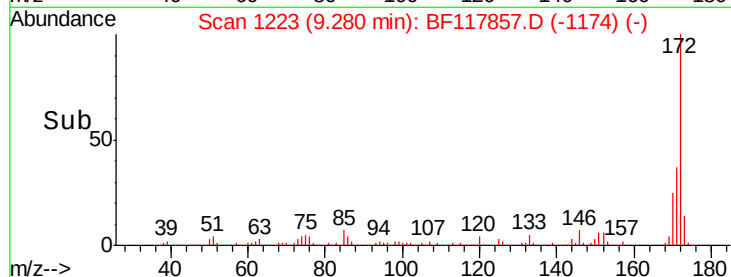
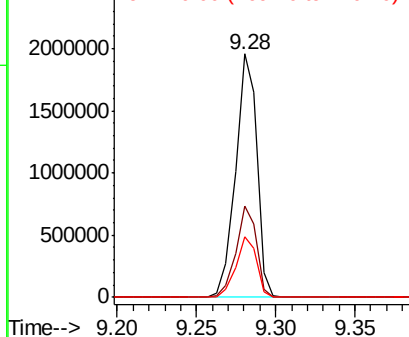


Abundance

Ion 172.00 (171.70 to 172.70): E

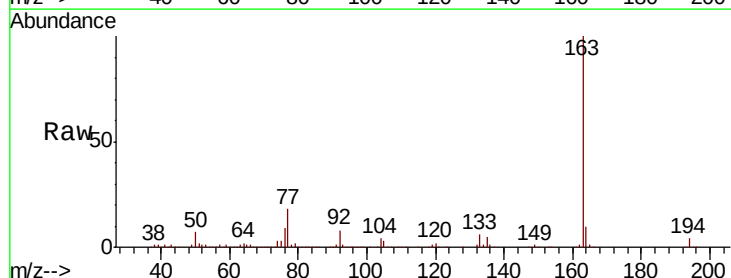
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 10.395 ng  
RT: 9.67 min Scan# 1290  
Delta R.T. -0.02 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.3   | 4.9   |
| 164     | 9.8   | 8.7   | 13.1  |

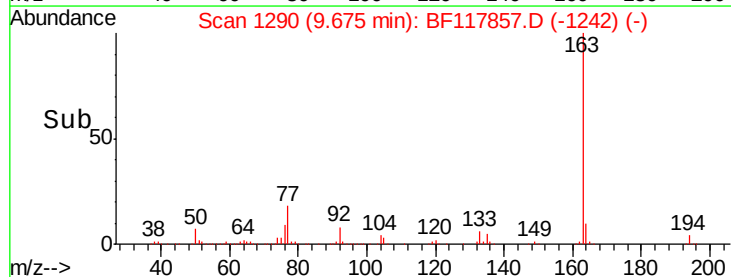
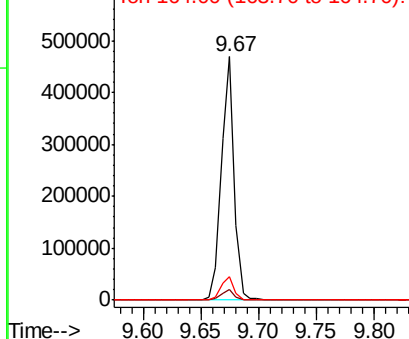


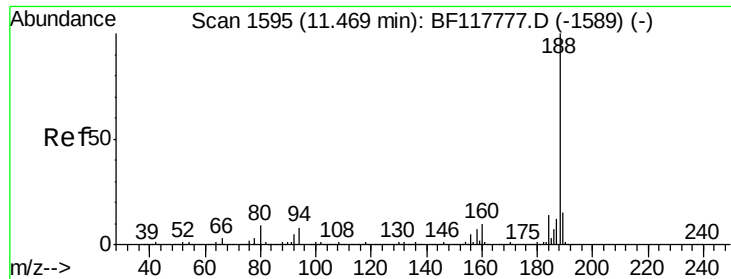
Abundance

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# 1593

Delta R.T. -0.01 min

Lab File: BF117857.D

Acq: 19 Nov 2019 14:15

Instrument :

BNA\_F

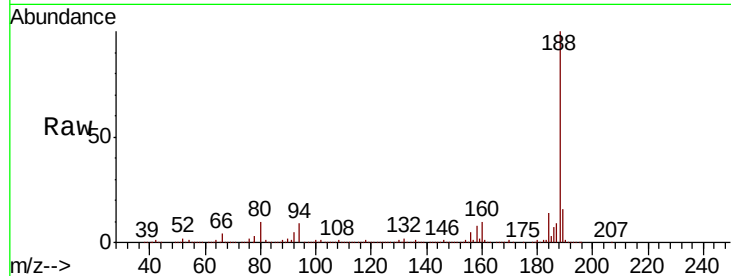
ClientSampled :

5-(10-12)RX

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 918693 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.3   | 6.6   | 10.0   |
| 80        | 10.2  | 7.2   | 10.8   |

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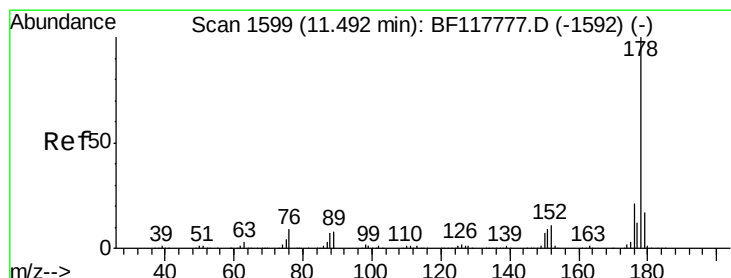
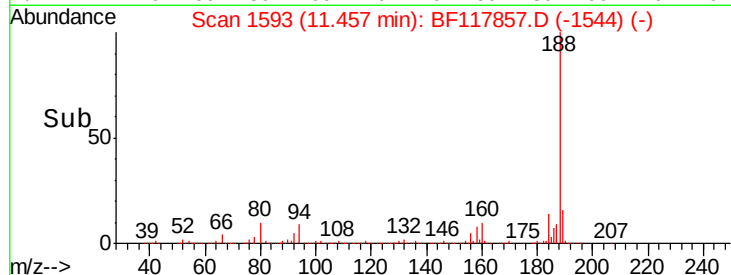
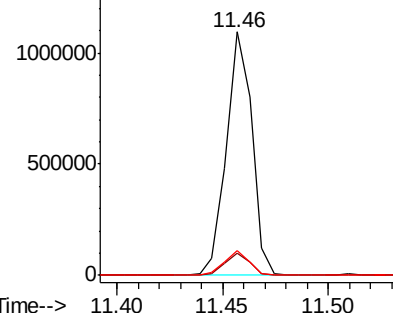
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 2.567 ng

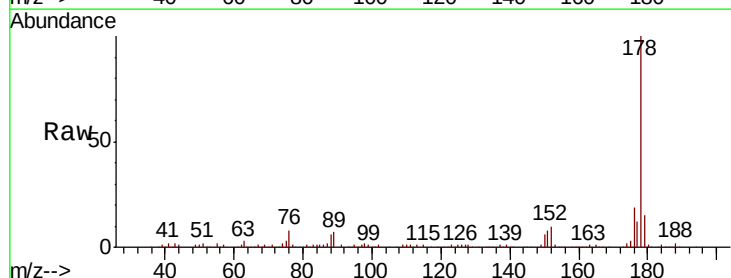
RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF117857.D

Acq: 19 Nov 2019 14:15

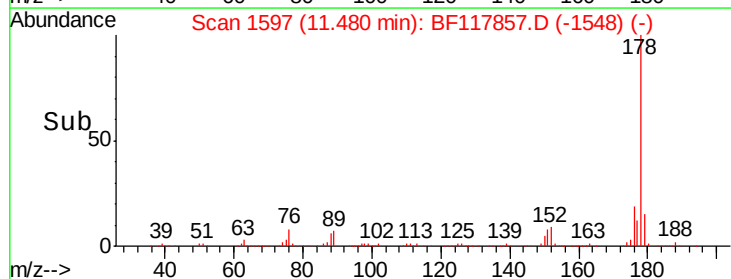
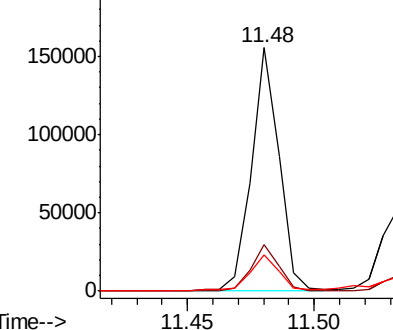
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 118589 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.1  | 16.6  | 25.0   |
| 179       | 14.8  | 13.2  | 19.8   |



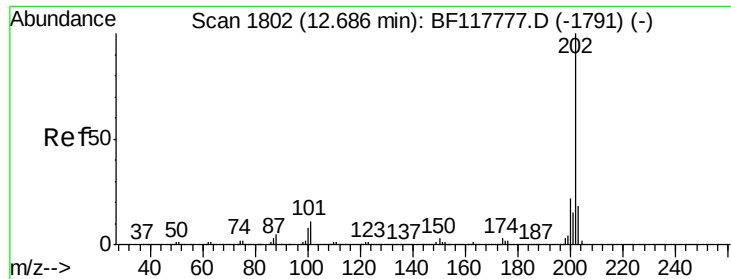
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#75

Fluoranthene

Concen: 6.314 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF117857.D

Acq: 19 Nov 2019 14:15

Instrument :

BNA\_F

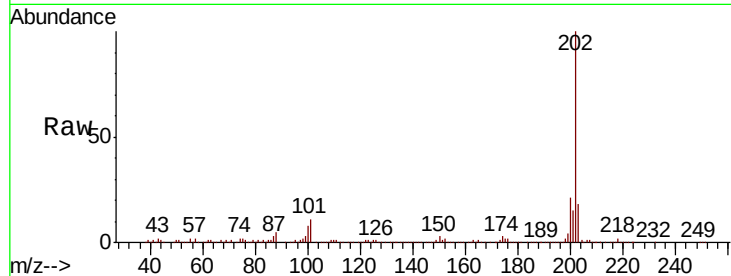
ClientSampleId :

5-(10-12)RX

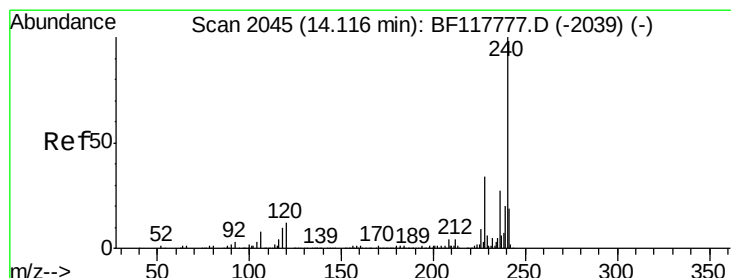
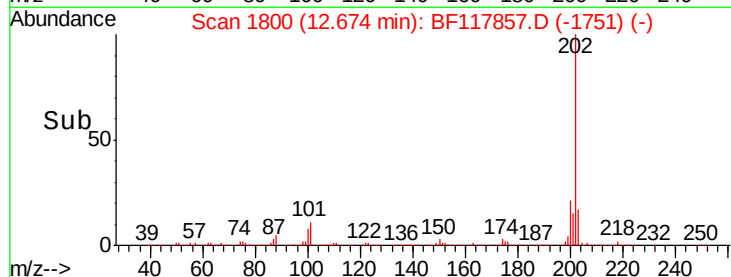
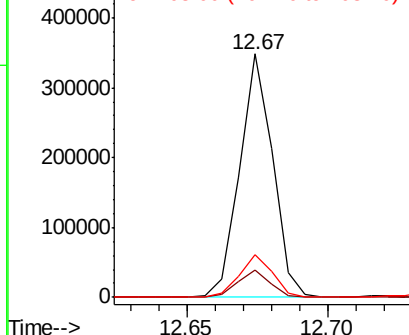
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.3  | 0.0        | 31.1  |
| 203     | 17.6  | 0.0        | 38.2  |

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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

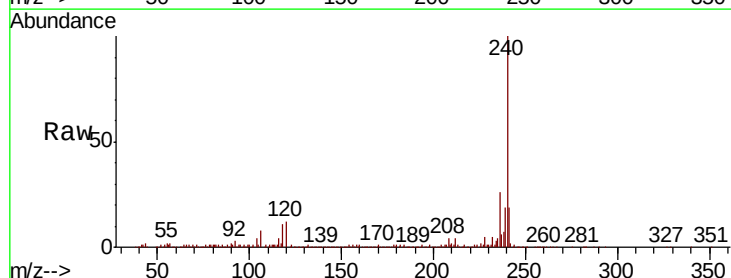
RT: 14.10 min Scan# 2043

Delta R.T. -0.01 min

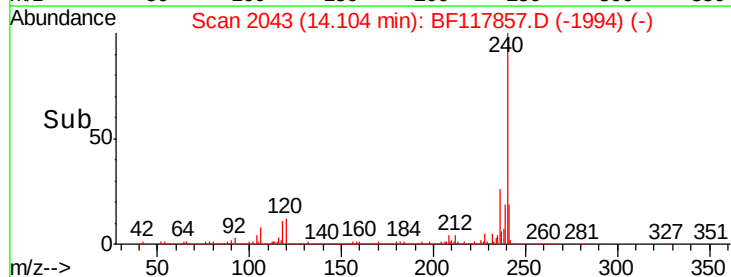
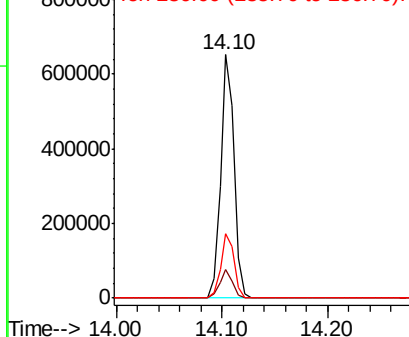
Lab File: BF117857.D

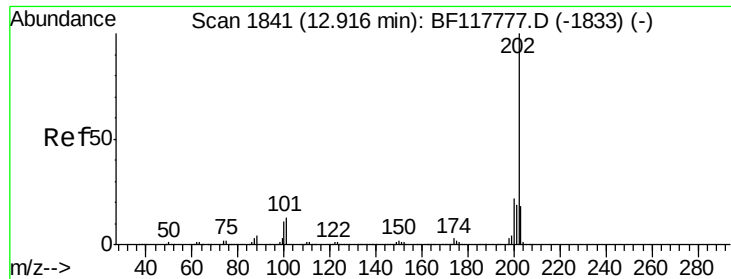
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 11.7  | 9.5        | 14.3  |
| 236     | 26.5  | 21.3       | 31.9  |



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





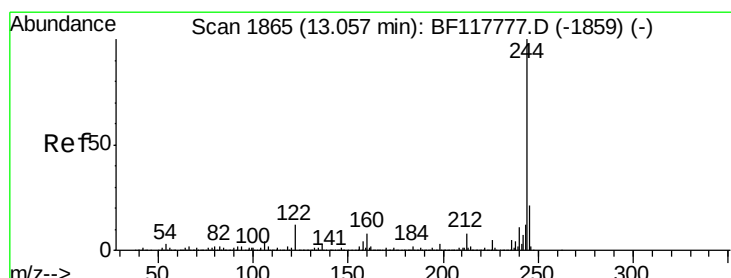
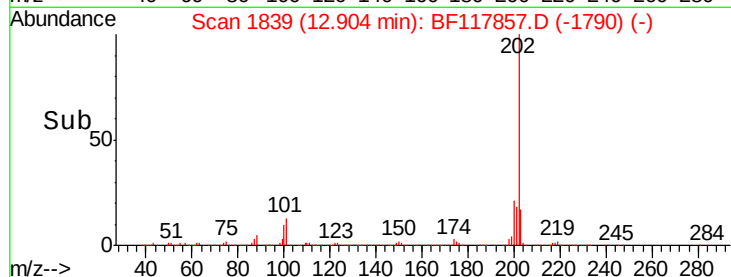
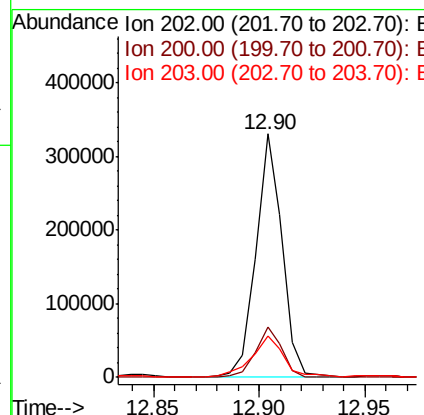
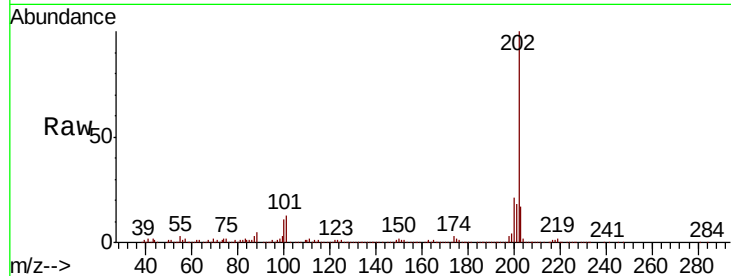
#78  
Pvrene  
Concen: 6.065 ng  
RT: 12.90 min Scan# 1839  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.8  | 17.8       | 26.8  |
| 203     | 17.0  | 14.6       | 22.0  |

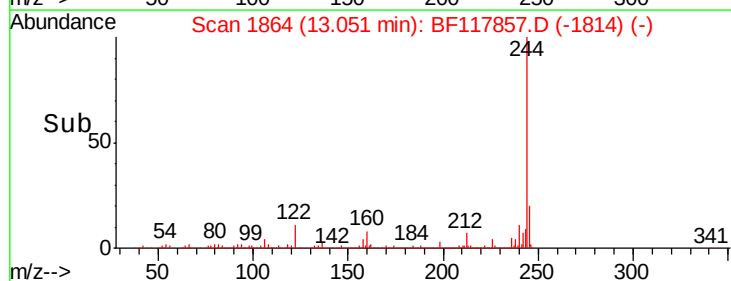
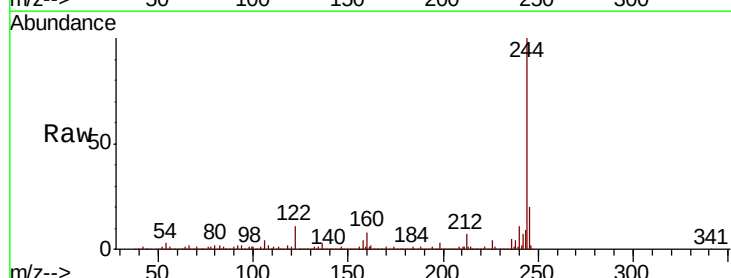
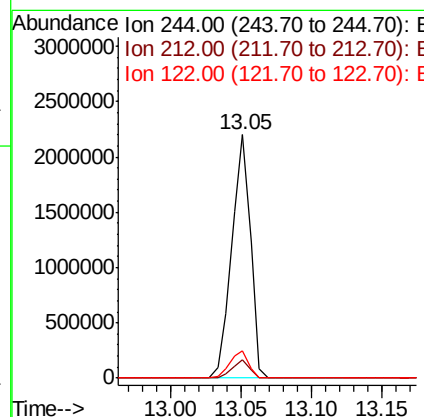
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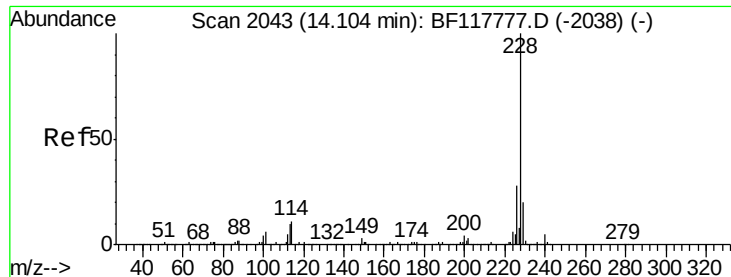
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#79  
Terphenyl-d14  
Concen: 63.621 ng  
RT: 13.05 min Scan# 1864  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.4   | 6.3        | 9.5   |
| 122     | 11.3  | 9.4        | 14.2  |





#81

Benzo(a)anthracene

Concen: 3.083 ng

RT: 14.09 min Scan# 2041

Delta R.T. -0.01 min

Lab File: BF117857.D

Acq: 19 Nov 2019 14:15

Instrument :

BNA\_F

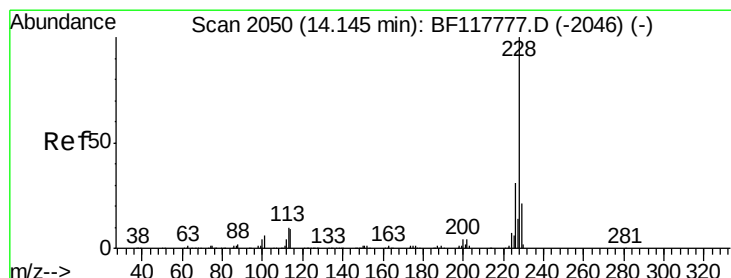
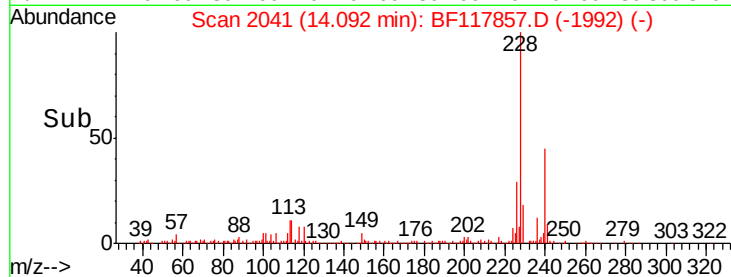
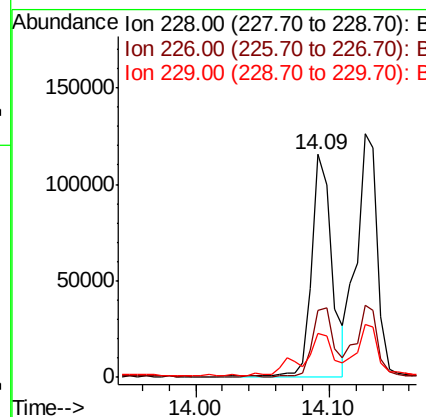
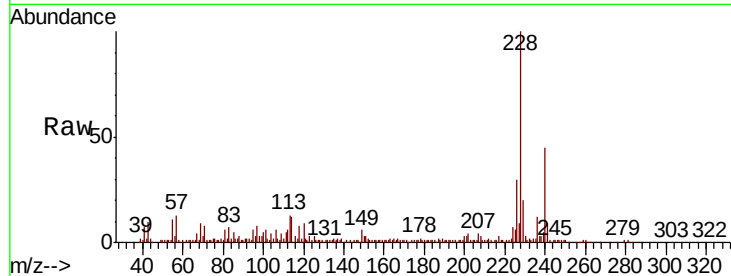
ClientSampleId :

5-(10-12)RX

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 118438 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.2  | 22.2  | 33.2   |
| 229       | 19.8  | 15.9  | 23.9   |

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#83

Chrysene

Concen: 3.690 ng

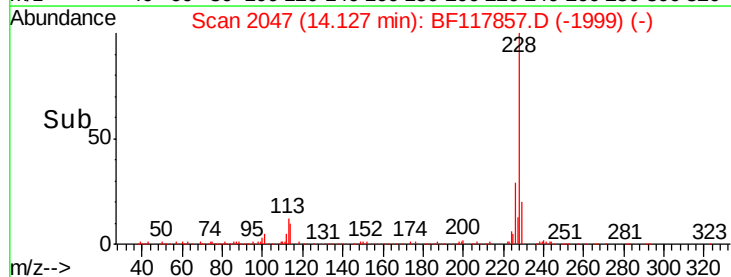
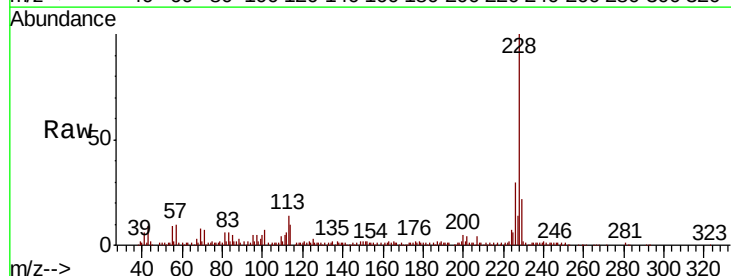
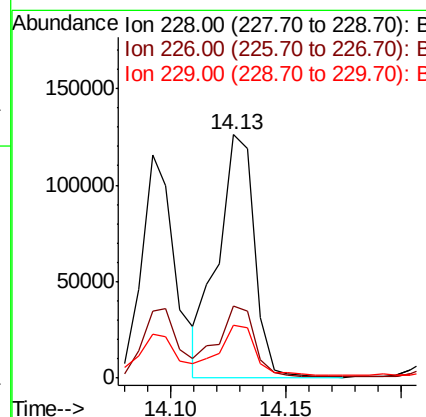
RT: 14.13 min Scan# 2047

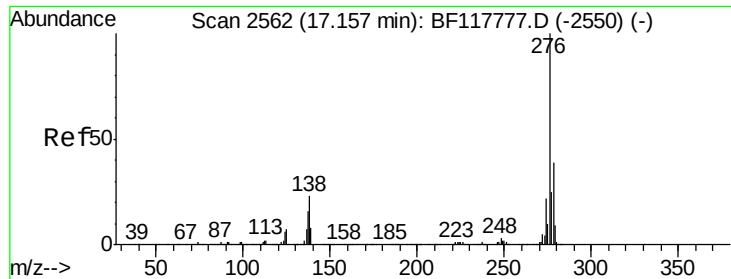
Delta R.T. -0.02 min

Lab File: BF117857.D

Acq: 19 Nov 2019 14:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 137386 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.6  | 25.0  | 37.4   |
| 229       | 21.5  | 16.6  | 25.0   |





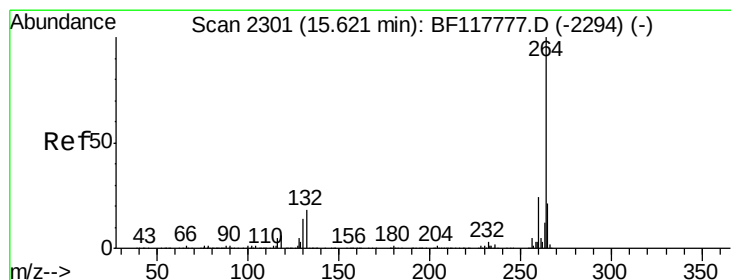
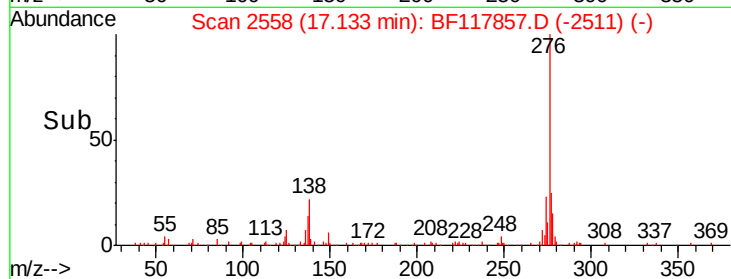
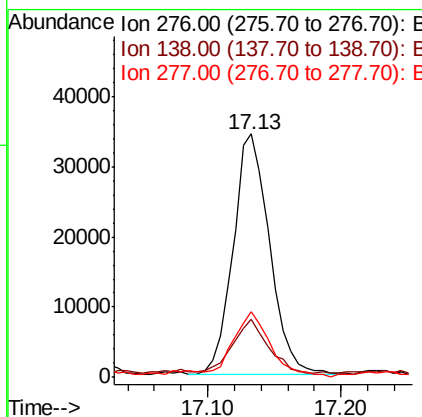
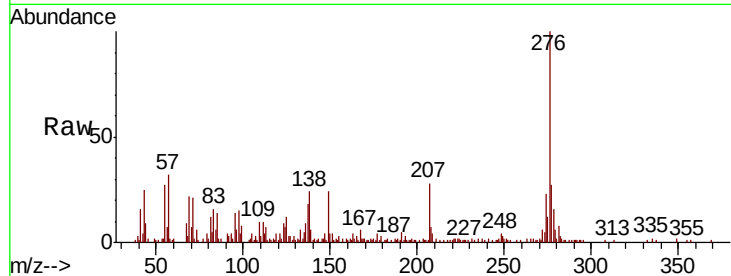
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.039 ng  
RT: 17.13 min Scan# 2558  
Delta R.T. -0.02 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.5  | 20.9  | 31.3  |
| 277     | 28.1  | 20.3  | 30.5  |

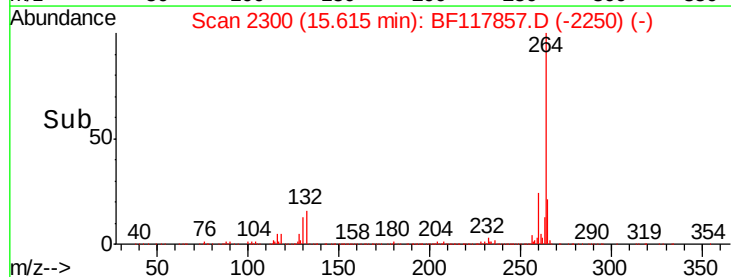
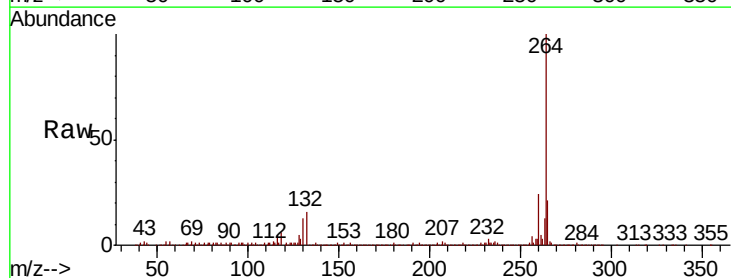
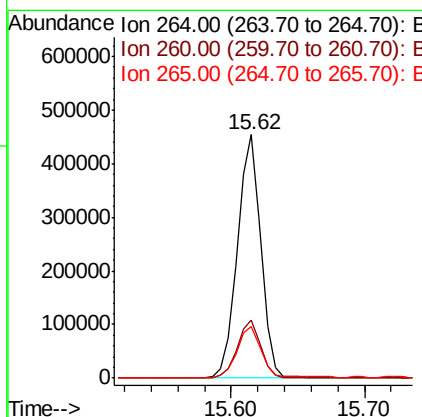
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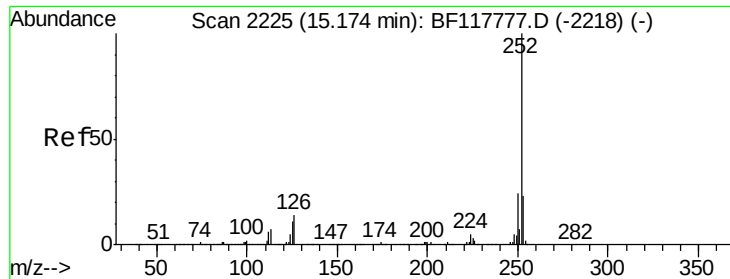
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.62 min Scan# 2300  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.4  | 29.0  |
| 265     | 21.5  | 17.1  | 25.7  |





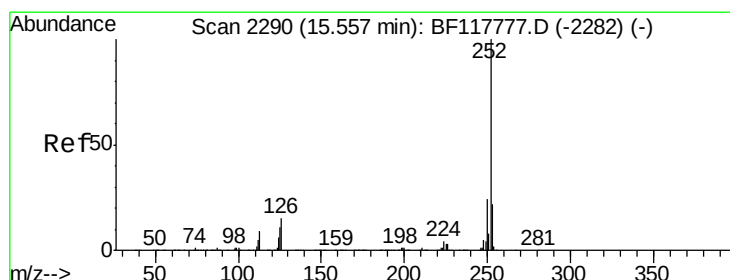
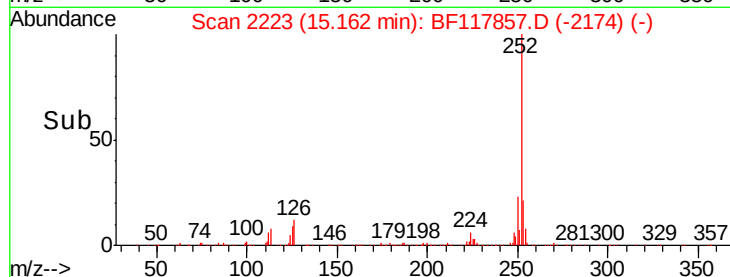
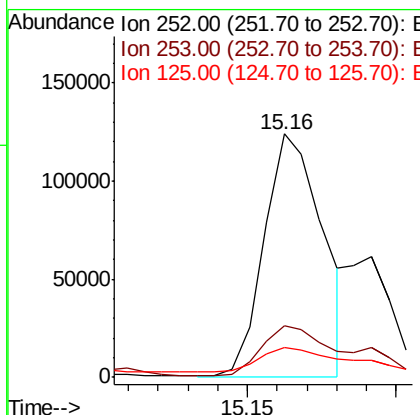
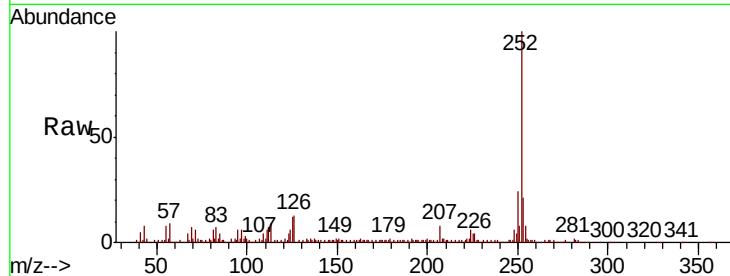
#88  
Benzo(b)fluoranthene  
Concen: 4.768 ng m  
RT: 15.16 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 18.0  | 27.0  |
| 125     | 12.2  | 8.6   | 13.0  |

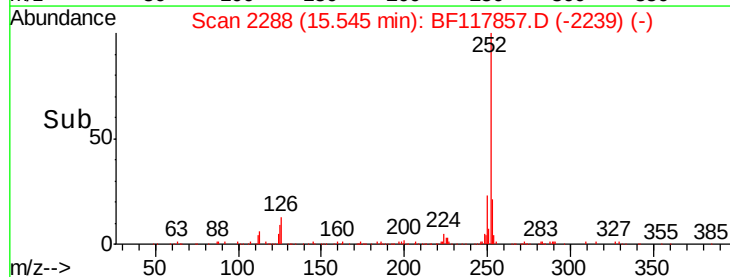
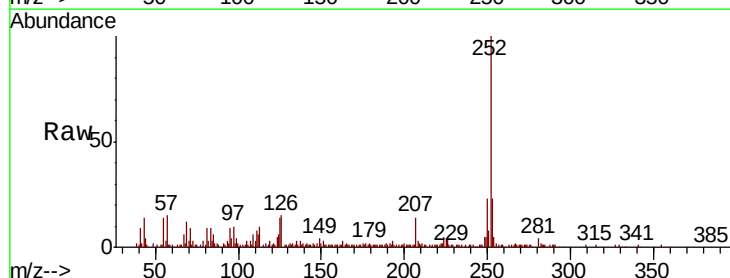
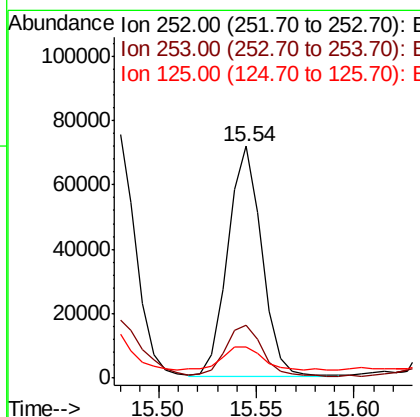
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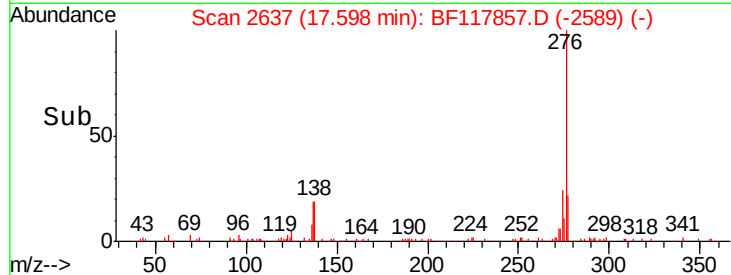
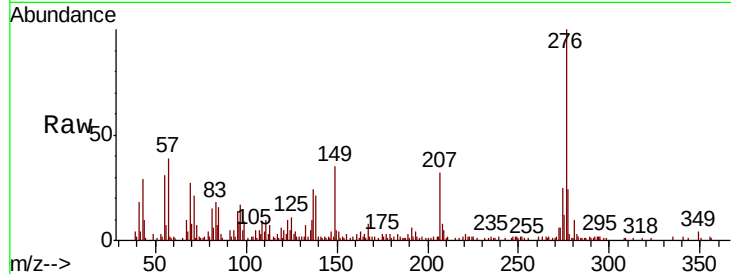
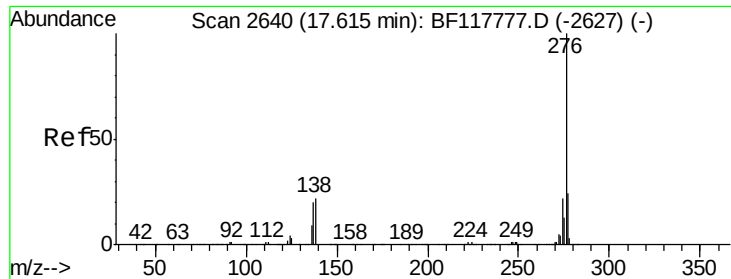
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#90  
Benzo(a)pyrene  
Concen: 2.727 ng  
RT: 15.54 min Scan# 2288  
Delta R.T. -0.01 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.8  | 26.6  |
| 125     | 13.5  | 9.2   | 13.8  |





#92  
Benzo(a,h,i)perylene  
Concen: 2.243 ng  
RT: 17.60 min Scan# 2637  
Delta R.T. -0.02 min  
Lab File: BF117857.D  
Acq: 19 Nov 2019 14:15

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 276  | Resp: | 60615 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 277       | 24.1 | 18.9  | 28.3  |
| 138       | 21.5 | 17.4  | 26.2  |

Instrument :  
BNA\_F  
ClientSampleId :  
5-(10-12)RX

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