

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\  
 Data File : BF111564.D  
 Acq On : 18 Dec 2018 2:53  
 Operator : JU/SJ  
 Sample : J6403-53  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-7-B

Manual Integrations  
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 12/18/2018 12:49:57 PM

Quant Time: Dec 18 07:19:14 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.79  | 152  | 135970   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.07  | 136  | 525235   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.82  | 164  | 224705   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.31 | 188  | 483796   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.94 | 240  | 406520   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.39 | 264  | 337264   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.42  | 112  | 1081751  | 132.39 | ng    | 0.00     |
| 7) Phenol-d6                | 6.44  | 99   | 1205500  | 110.91 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 723640   | 82.04  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 287245   | 142.70 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 1264029  | 86.89  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.89 | 244  | 1184482  | 68.42  | ng    | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                 | 6.45  | 94   | 66842    | 5.521  | ng    | 99     |
| 50) Dimethylphthalate      | 9.54  | 163  | 172095   | 10.634 | ng    | 98     |
| 71) Phenanthrene           | 11.33 | 178  | 106280   | 4.263  | ng    | # 92   |
| 75) Fluoranthene           | 12.52 | 202  | 209423   | 8.587  | ng    | 99     |
| 78) Pyrene                 | 12.74 | 202  | 207127   | 7.227  | ng    | 95     |
| 81) Benzo(a)anthracene     | 13.93 | 228  | 117499   | 5.316  | ng    | 98     |
| 83) Chrysene               | 13.97 | 228  | 107232   | 4.605  | ng    | 98     |
| 86) Indeno(1,2,3-cd)pyrene | 16.80 | 276  | 46835    | 2.787  | ng    | 94     |
| 88) Benzo(b)fluoranthene   | 14.97 | 252  | 138943m  | 7.066  | ng    |        |
| 89) Benzo(k)fluoranthene   | 14.99 | 252  | 46794m   | 2.491  | ng    |        |
| 90) Benzo(a)pyrene         | 15.32 | 252  | 92602    | 5.223  | ng    | 97     |
| 92) Benzo(a,h,i)perylene   | 17.22 | 276  | 48084    | 3.502  | ng    | 96     |

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

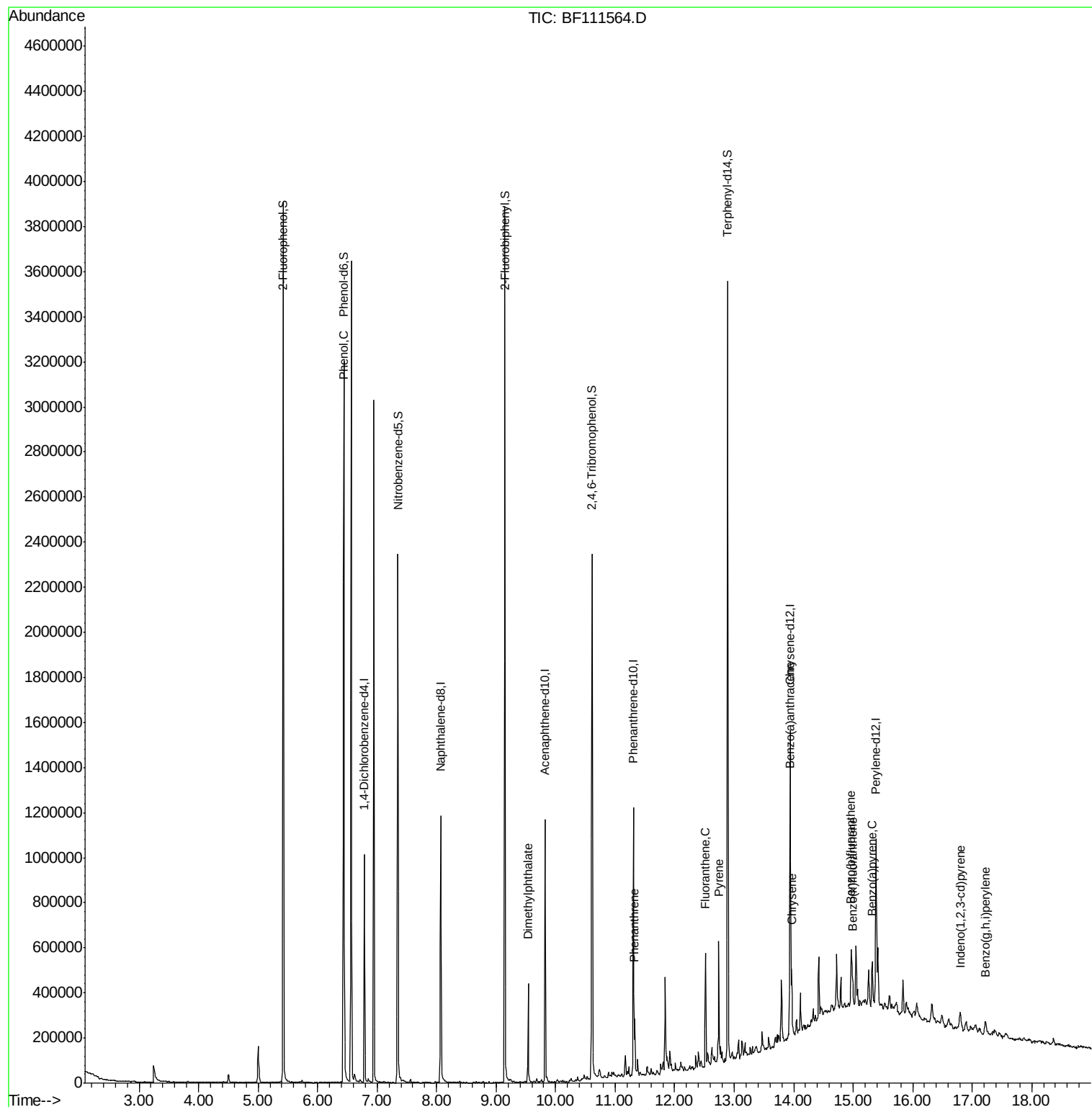
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\  
Data File : BF111564.D  
Acq On : 18 Dec 2018 2:53  
Operator : JU/SJ  
Sample : J6403-53  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

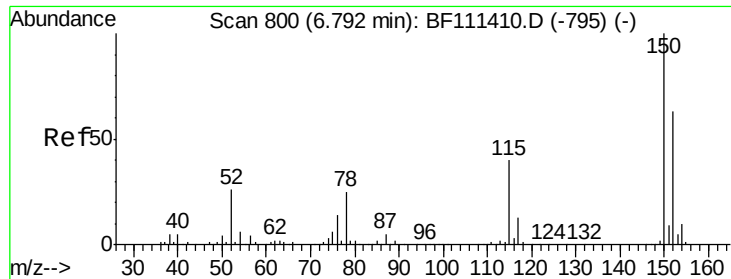
Instrument :  
BNA\_F  
ClientSampled :  
TP-7-B

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Quant Time: Dec 18 07:19:14 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 14 13:26:17 2018  
Response via : Initial Calibration





#1

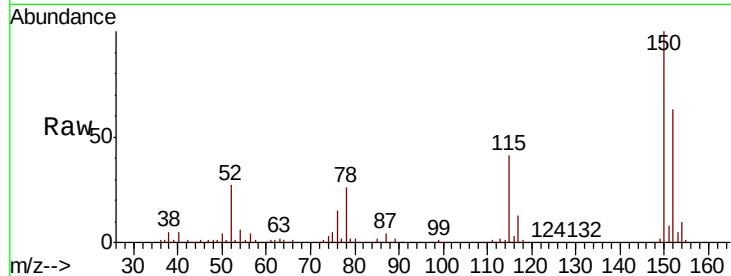
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampled :  
TP-7-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.5 | 126.6 | 189.8 |
| 115     | 64.8  | 50.7  | 76.1  |

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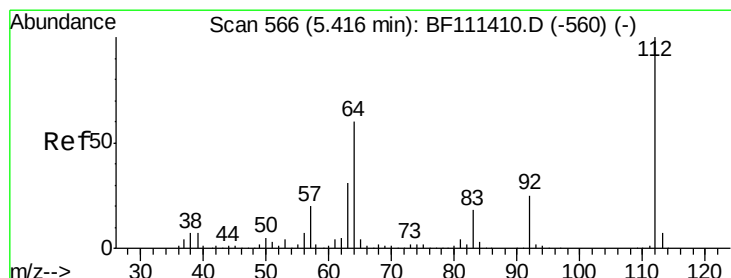
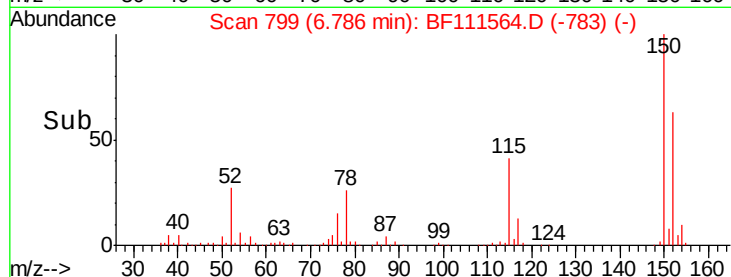
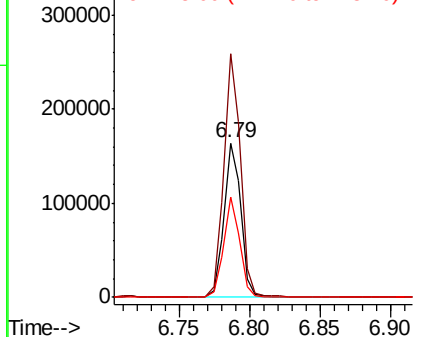


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

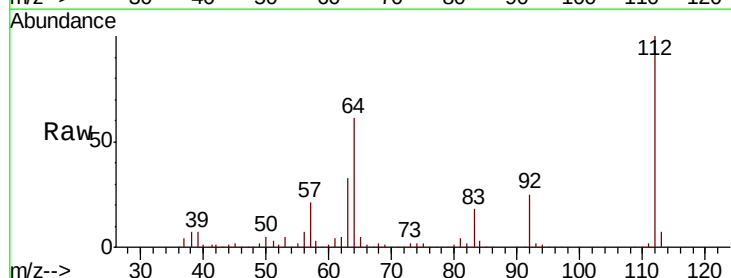
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 132.389 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.6  | 51.8  | 77.6  |
| 63      | 33.1  | 26.8  | 40.2  |

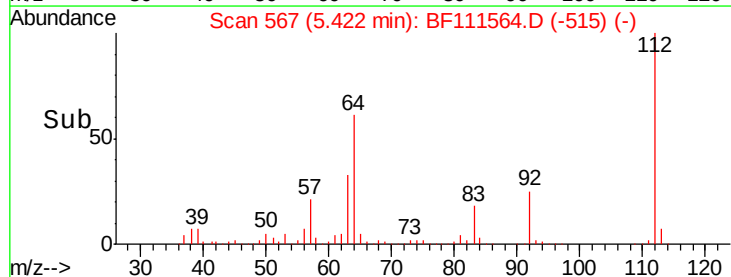
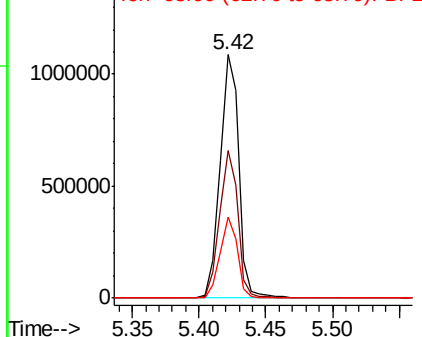


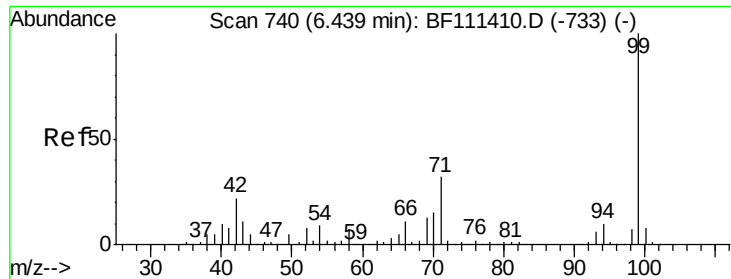
Abundance

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: 110.913 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF111564.D

Acq: 18 Dec 2018 2:53

Instrument :

BNA\_F

ClientSampled :

TP-7-B

Tot Ion: 99 Resp: 1205500

Ion Ratio Lower Upper

99 100

42 23.2 17.4 26.0

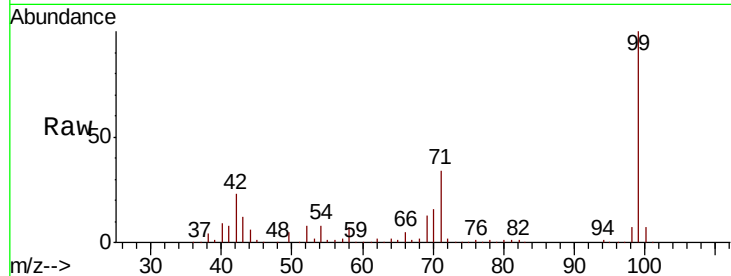
71 34.2 26.1 39.1

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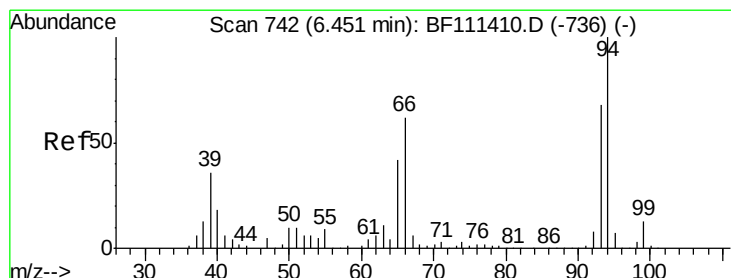
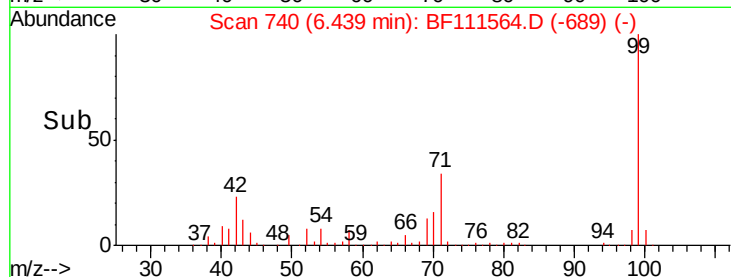
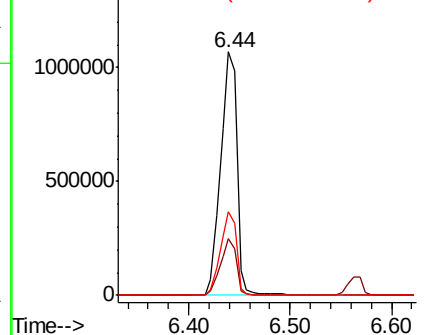
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 5.521 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF111564.D

Acq: 18 Dec 2018 2:53

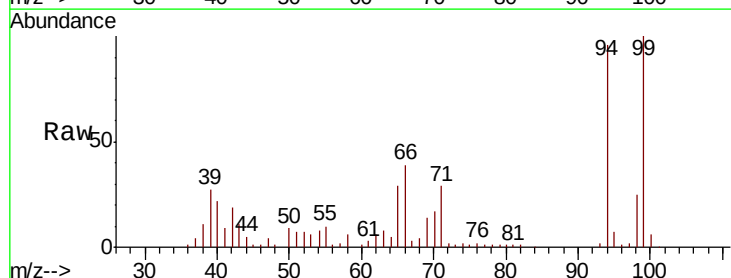
Tgt Ion: 94 Resp: 66842

Ion Ratio Lower Upper

94 100

65 30.5 11.7 51.7

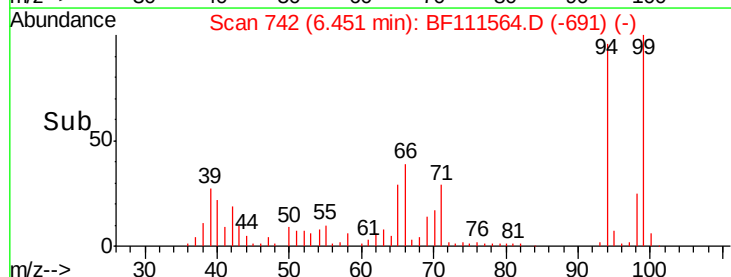
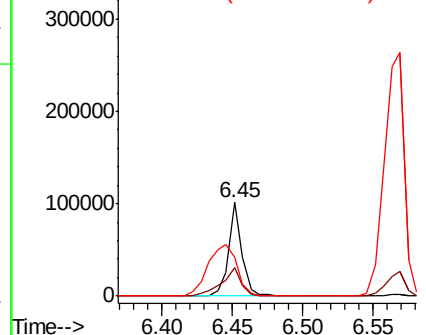
66 41.3 21.0 61.0

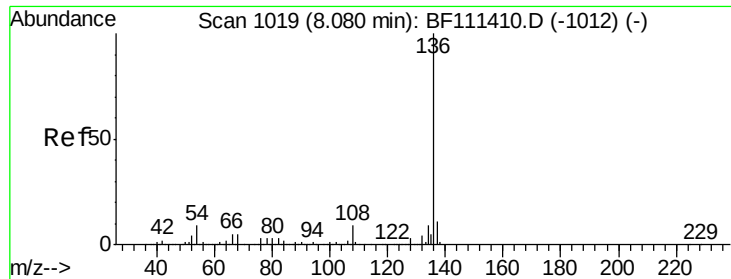


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





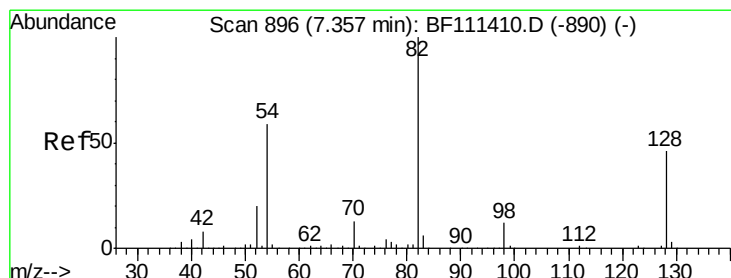
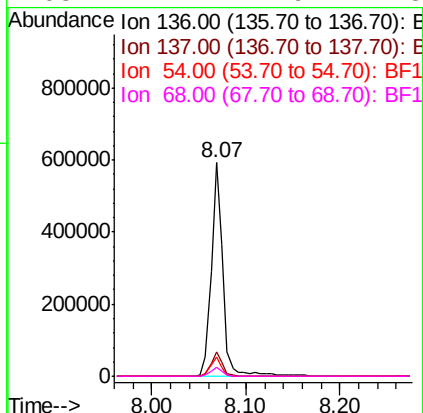
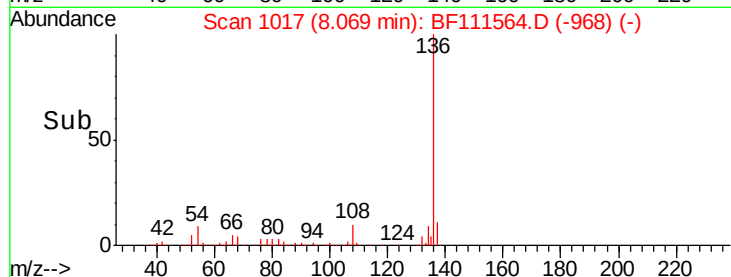
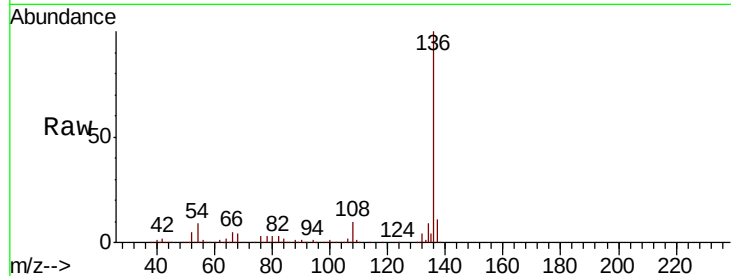
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1017  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampleId :  
TP-7-B

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 525235 |       |       |
| 137     | 11.3 |       | 9.1    | 13.7  |       |
| 54      | 9.0  |       | 7.7    | 11.5  |       |
| 68      | 4.4  |       | 4.9    | 7.3#  |       |

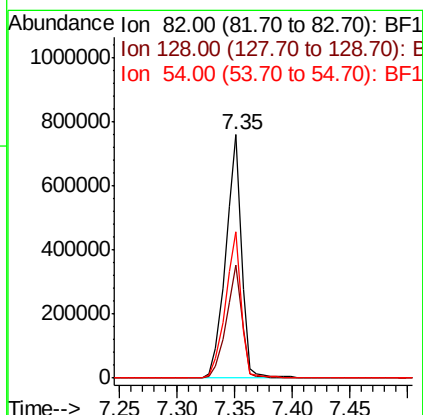
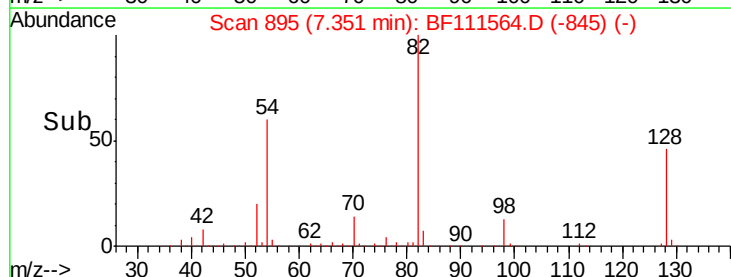
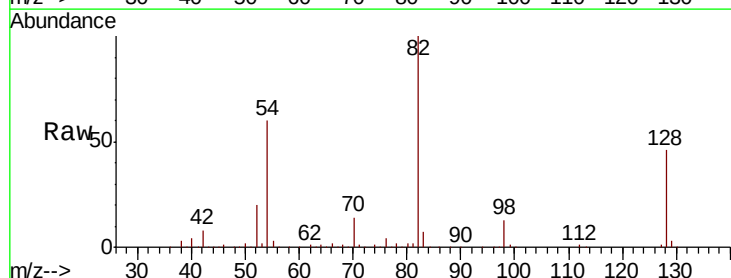
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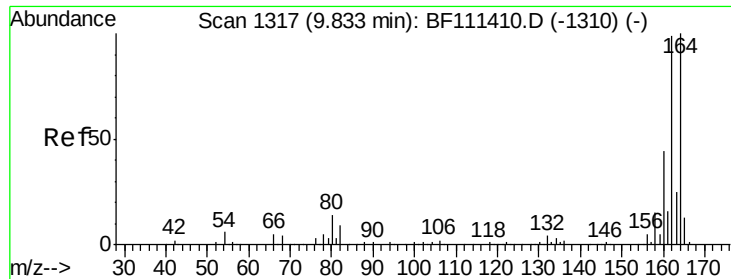
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#23  
Nitrobenzene-d5  
Concen: 82.043 ng  
RT: 7.35 min Scan# 895  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 723640 |       |       |
| 128     | 46.3 |       | 37.4   | 56.2  |       |
| 54      | 60.2 |       | 47.6   | 71.4  |       |





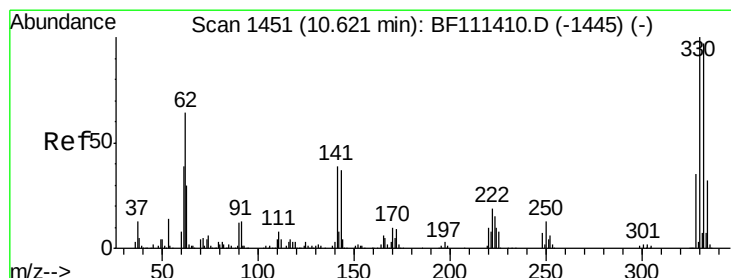
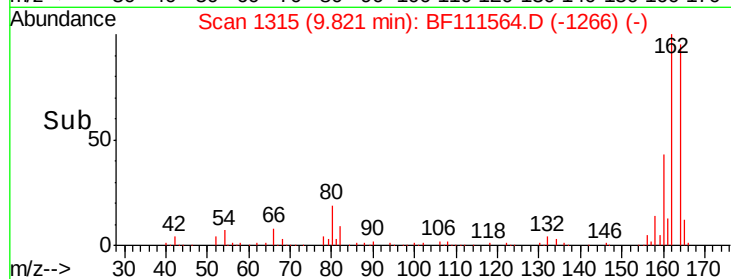
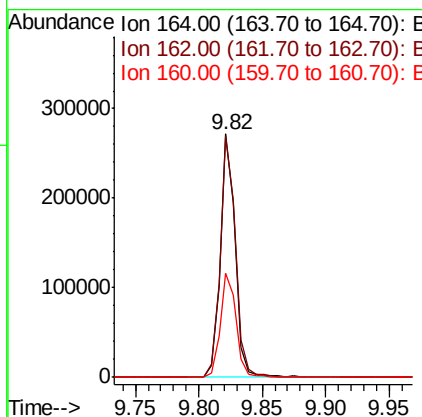
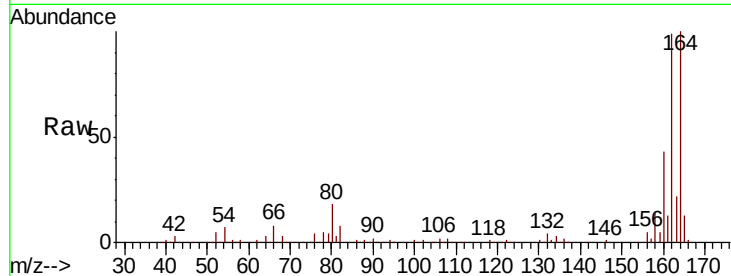
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampled :  
TP-7-B

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 224705 |       |       |
| 162     | 99.3  | 81.4   | 122.0 |       |
| 160     | 42.9  | 35.7   | 53.5  |       |

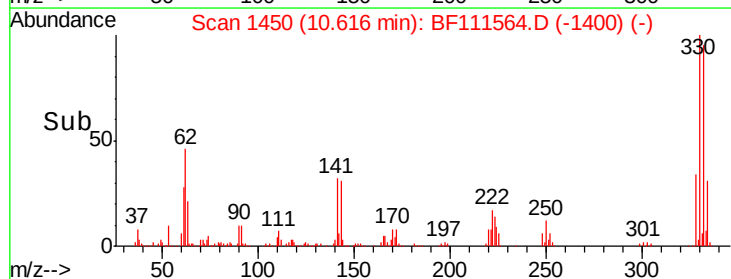
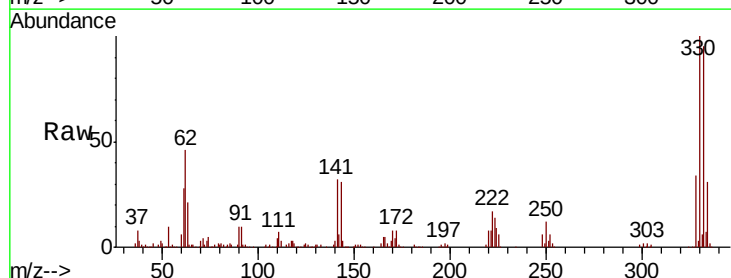
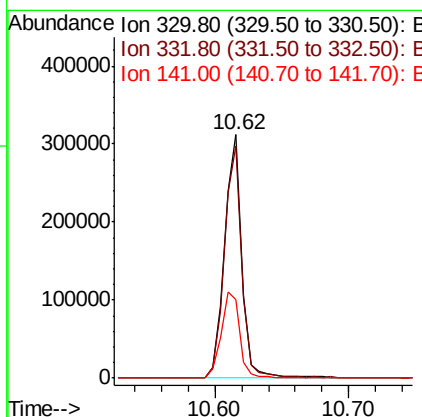
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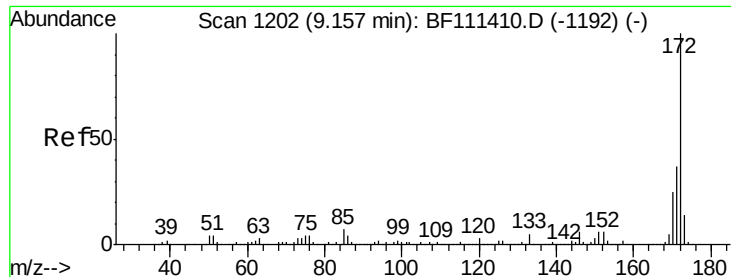
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#42  
2,4,6-Tribromophenol  
Concen: 142.704 ng  
RT: 10.62 min Scan# 1450  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 287245 |       |       |
| 332     | 96.1  | 76.0   | 114.0 |       |
| 141     | 38.2  | 31.0   | 46.6  |       |





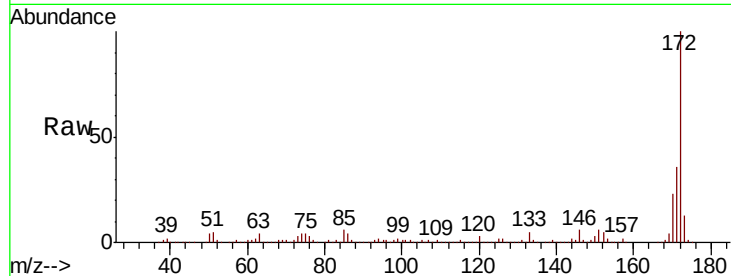
#45  
2-Fluorobiphenyl  
Concen: 86.890 ng  
RT: 9.15 min Scan# 1200  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampleId :  
TP-7-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 33.0  | 49.4  |
| 170     | 23.5  | 22.3  | 33.5  |

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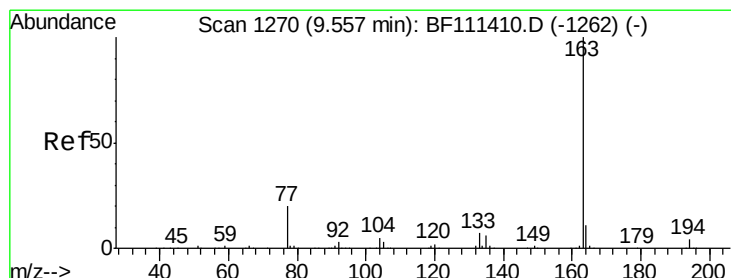
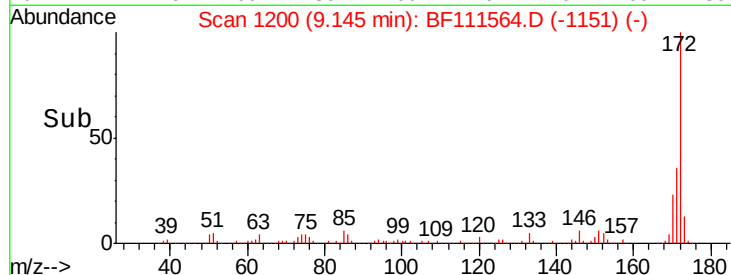
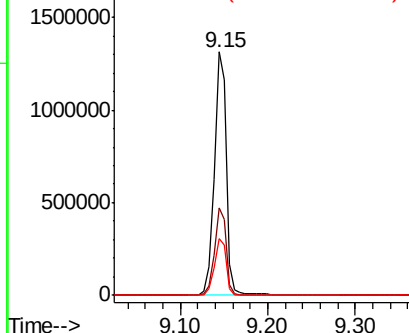


Abundance

Ion 172.00 (171.70 to 172.70): E

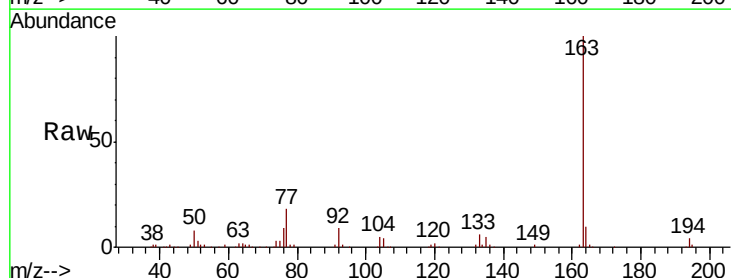
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 10.634 ng  
RT: 9.54 min Scan# 1267  
Delta R.T. -0.02 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.0   | 4.6   |
| 164     | 10.1  | 8.9   | 13.3  |

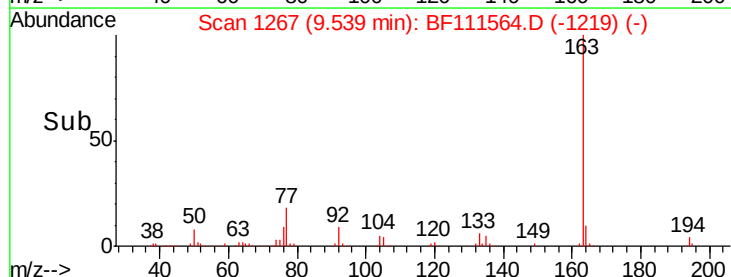
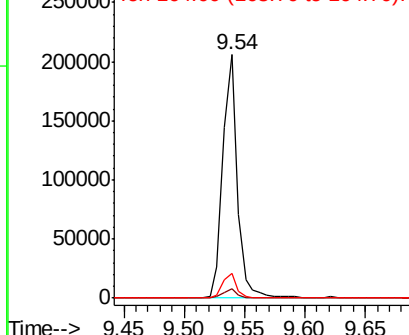


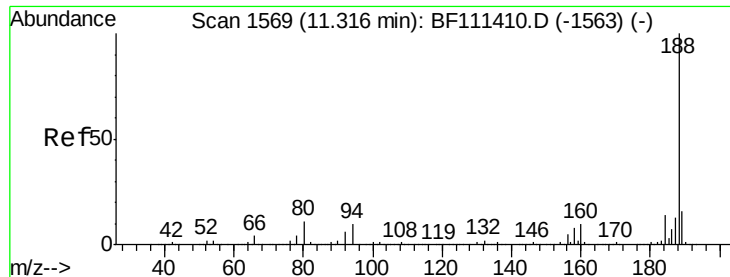
Abundance

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





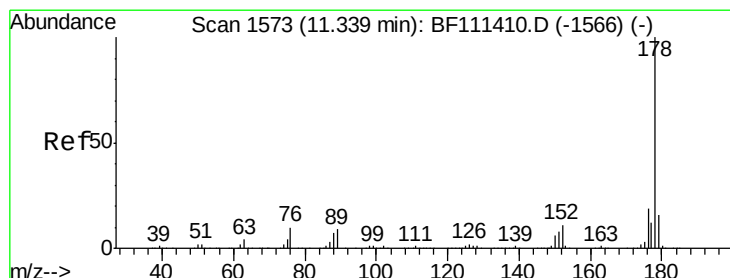
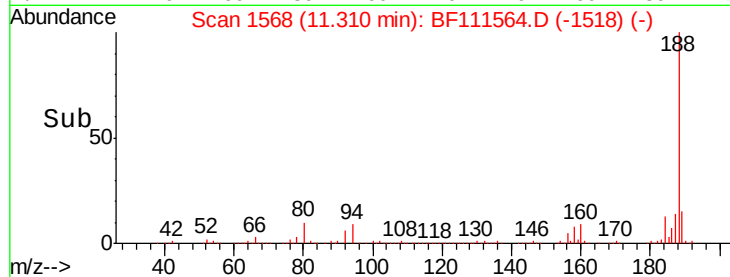
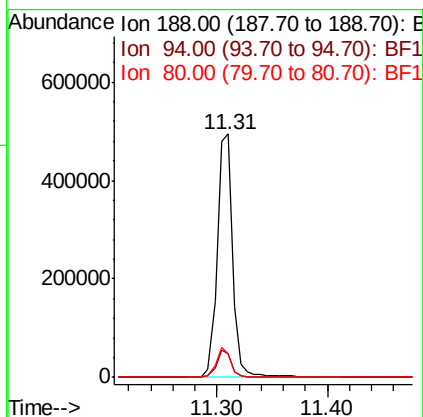
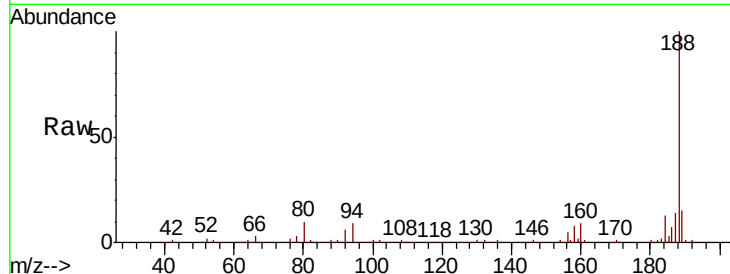
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.31 min Scan# 1568  
 Delta R.T. -0.01 min  
 Lab File: BF111564.D  
 Acq: 18 Dec 2018 2:53

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-7-B

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.4   | 9.6        | 14.4# |
| 80      | 9.8   | 9.8        | 14.6  |

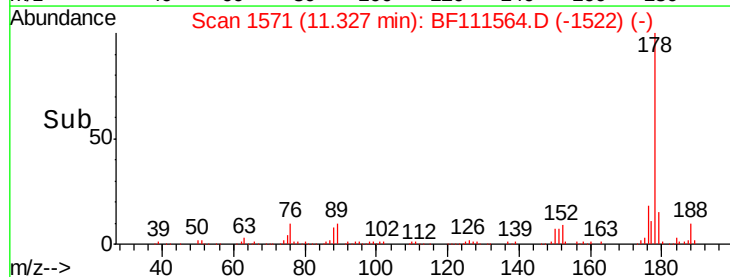
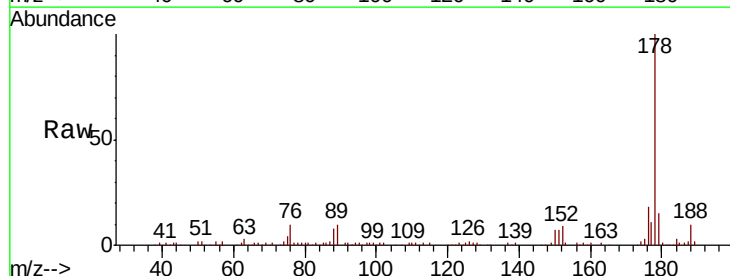
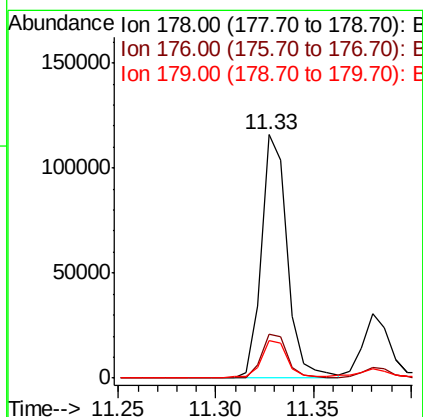
Manual Integrations  
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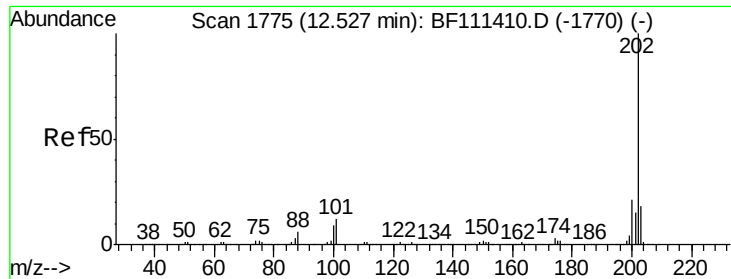


#71  
 Phenanthrene  
 Concen: 4.263 ng  
 RT: 11.33 min Scan# 1571  
 Delta R.T. -0.01 min  
 Lab File: BF111564.D  
 Acq: 18 Dec 2018 2:53

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 18.0  | 18.1       | 27.1# |
| 179     | 15.2  | 14.0       | 21.0  |







#75

Fluoranthene

Concen: 8.587 ng

RT: 12.52 min Scan# 1773

Delta R.T. -0.01 min

Lab File: BF111564.D

Acq: 18 Dec 2018 2:53

Instrument :

BNA\_F

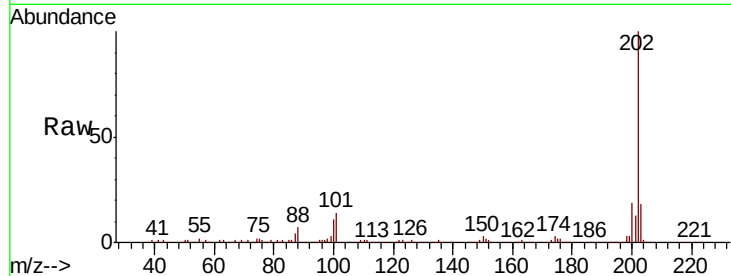
ClientSampleId :

TP-7-B

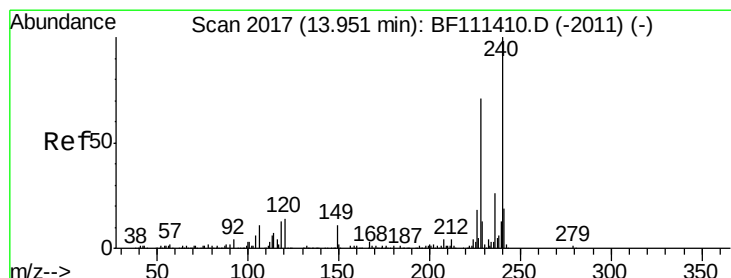
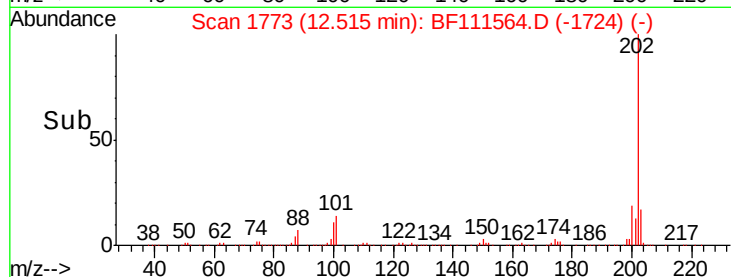
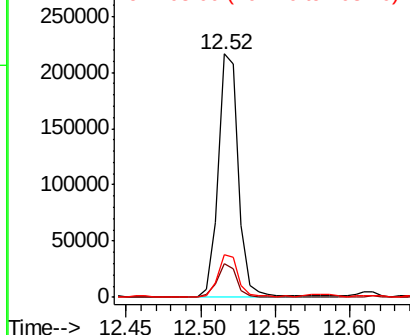
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 209423 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.9  | 0.0   | 33.8   |
| 203       | 17.7  | 0.0   | 38.6   |

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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: 13.94 min Scan# 2016

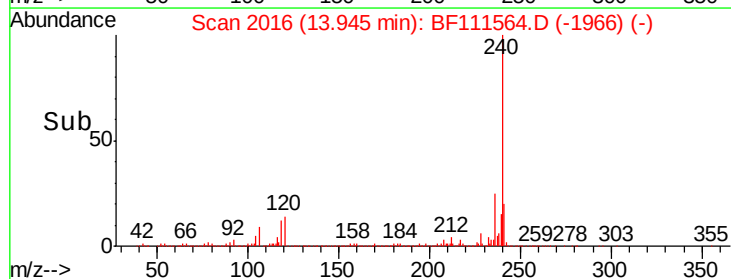
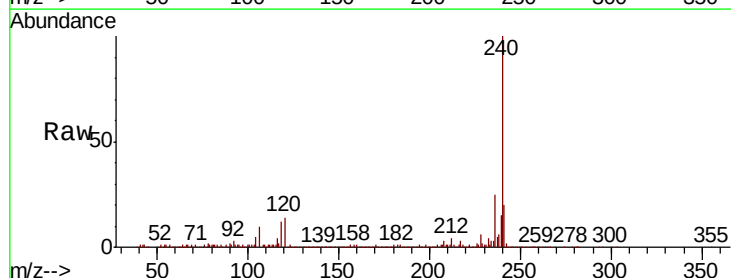
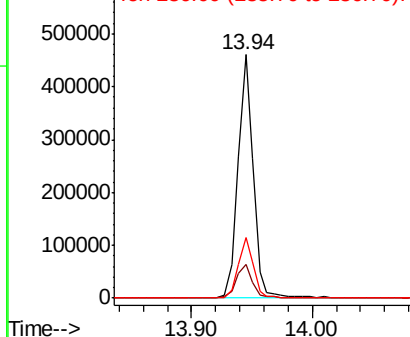
Delta R.T. -0.01 min

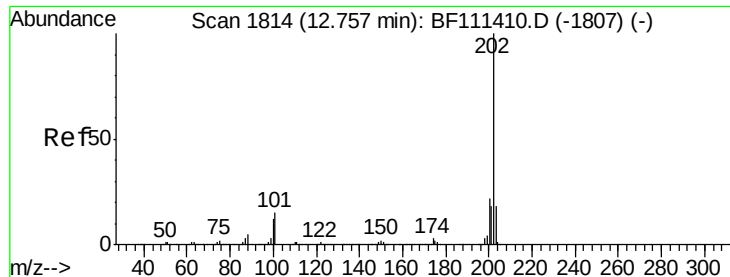
Lab File: BF111564.D

Acq: 18 Dec 2018 2:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 406520 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.1  | 12.2  | 18.2   |
| 236       | 24.8  | 20.2  | 30.2   |

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





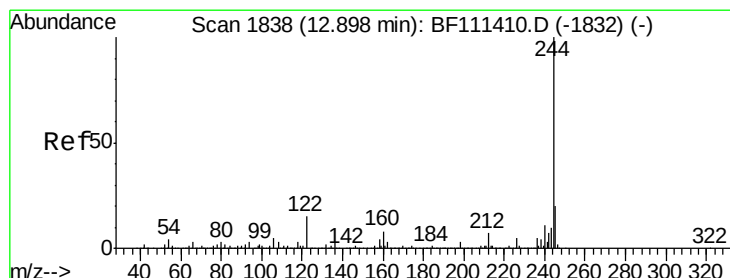
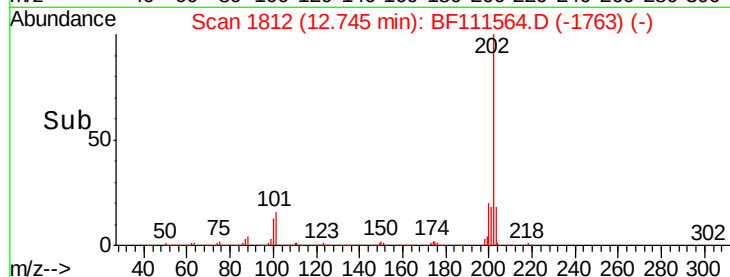
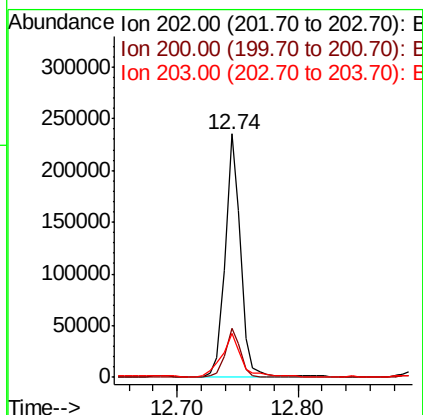
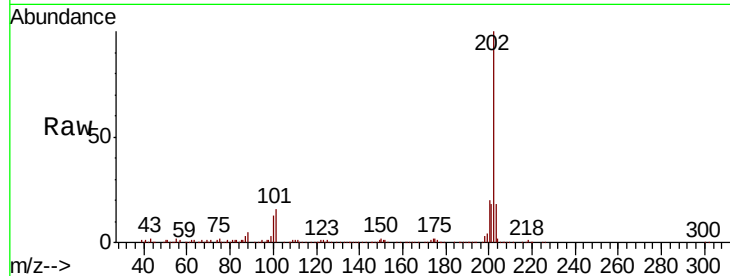
#78  
Pvrene  
Concen: 7.227 ng  
RT: 12.74 min Scan# 1812  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampleId :  
TP-7-B

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.1  | 19.0       | 28.4  |
| 203     | 18.2  | 15.2       | 22.8  |

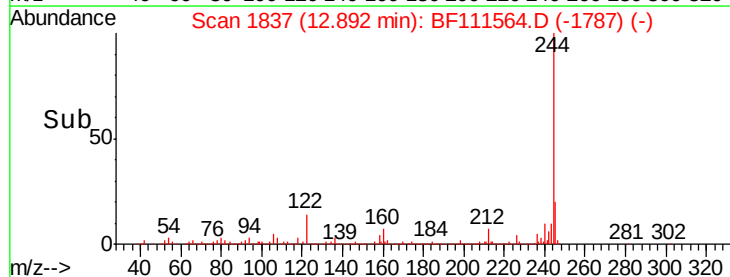
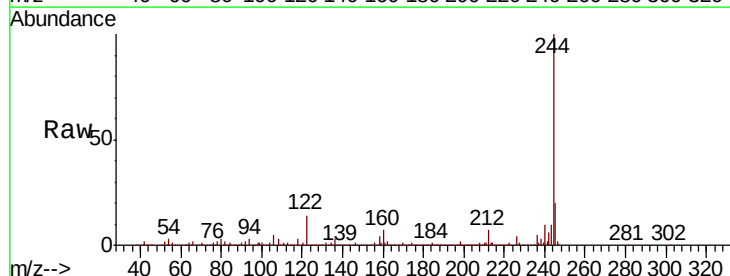
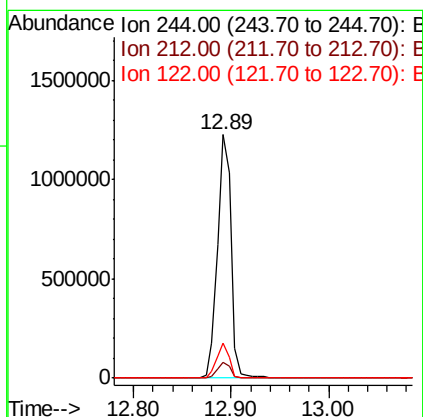
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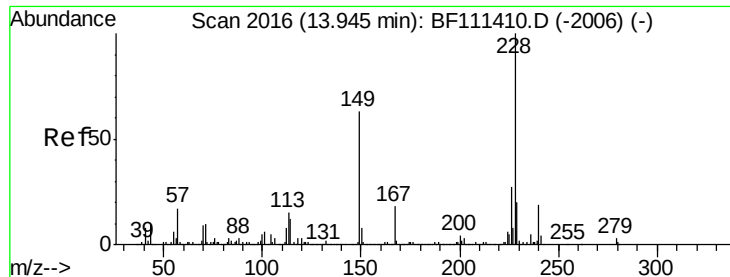
Sohil  
12/18/2018 12:49:57 PM



#79  
Terphenyl-d14  
Concen: 68.421 ng  
RT: 12.89 min Scan# 1837  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.7   | 5.7        | 8.5   |
| 122     | 14.4  | 13.1       | 19.7  |





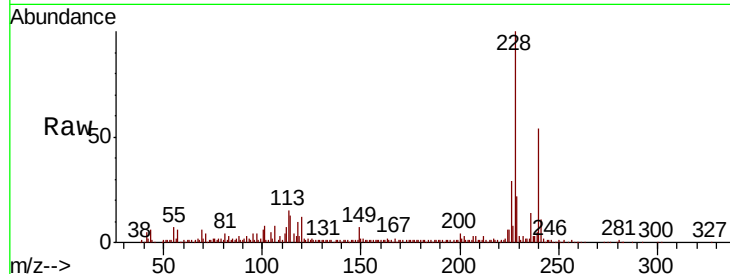
#81  
Benzo(a)anthracene  
Concen: 5.316 ng  
RT: 13.93 min Scan# 2014  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampleId :  
TP-7-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.6  | 34.0  |
| 229     | 22.1  | 16.3  | 24.5  |

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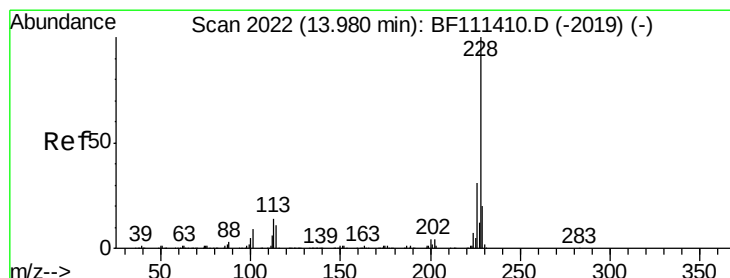
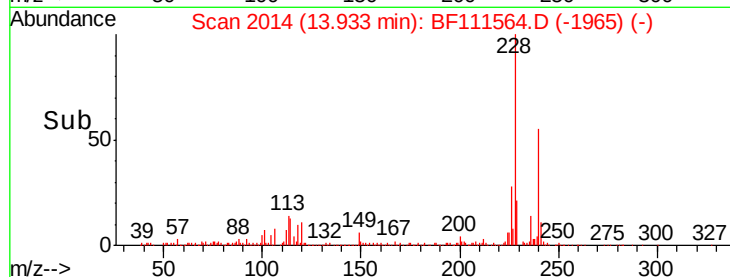
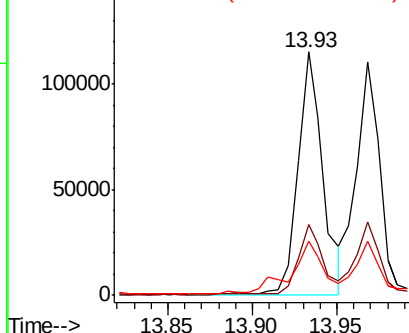


Abundance

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



#83  
Chrysene  
Concen: 4.605 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

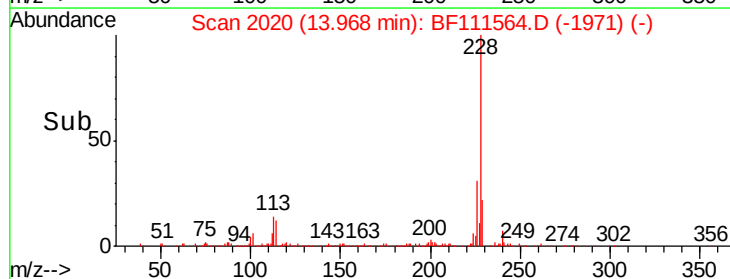
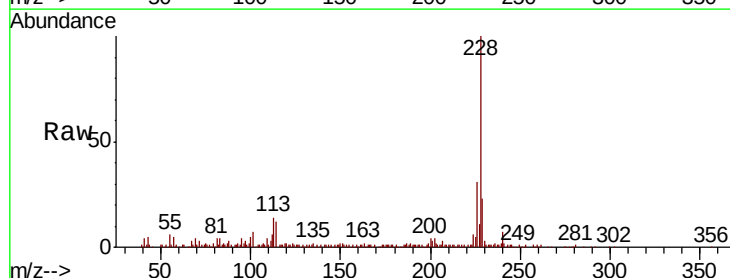
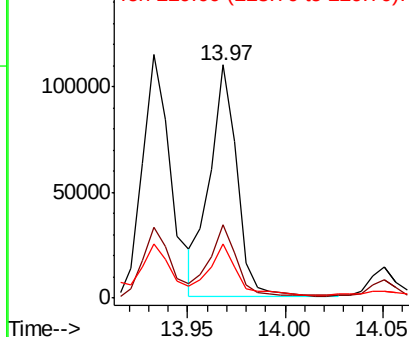
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.5  | 25.3  | 37.9  |
| 229     | 23.1  | 17.2  | 25.8  |

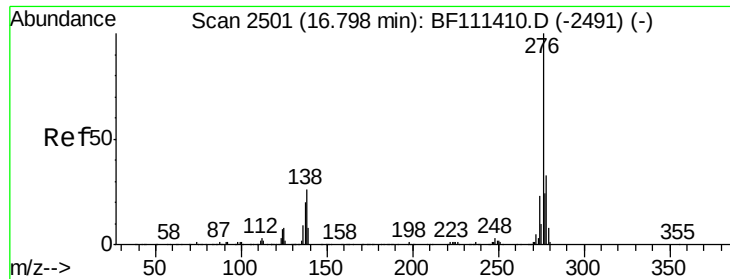
Abundance

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





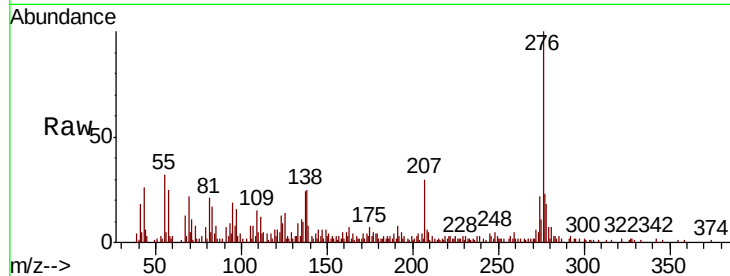
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.787 ng  
RT: 16.80 min Scan# 2501  
Delta R.T. -0.00 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampleId :  
TP-7-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.5  | 27.8  | 41.6  |
| 277     | 23.9  | 20.1  | 30.1  |

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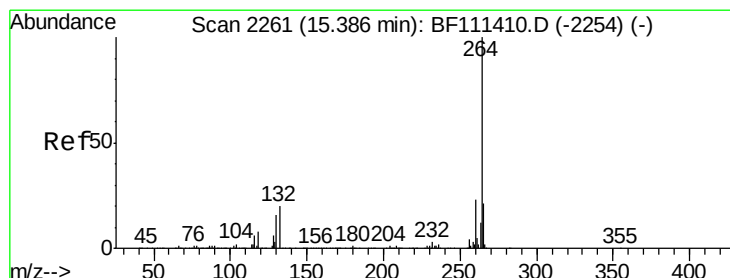
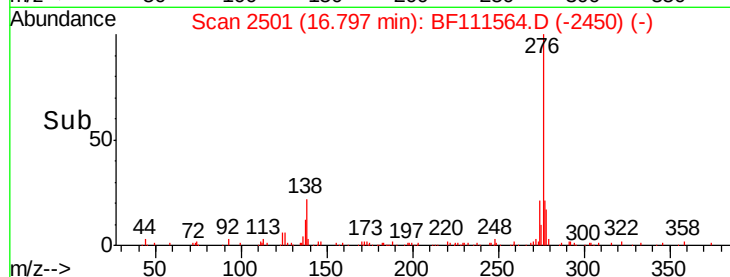
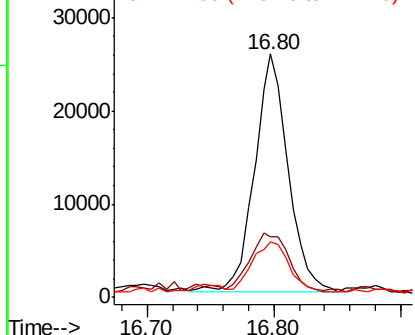


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.39 min Scan# 2261  
Delta R.T. -0.00 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

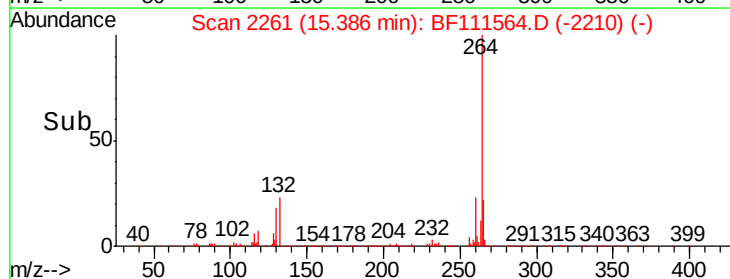
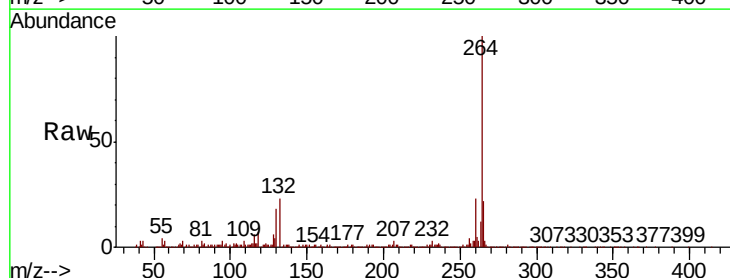
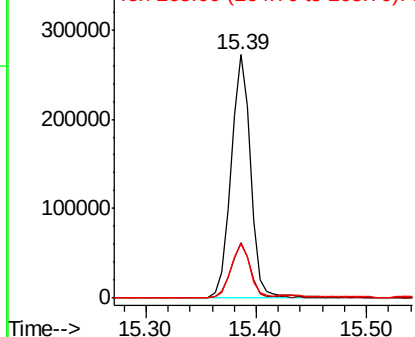
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 18.3  | 27.5  |
| 265     | 22.3  | 17.7  | 26.5  |

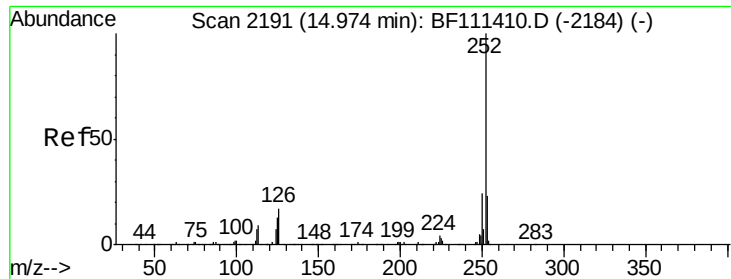
Abundance

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





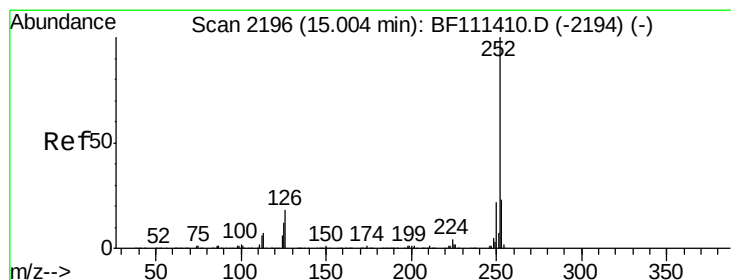
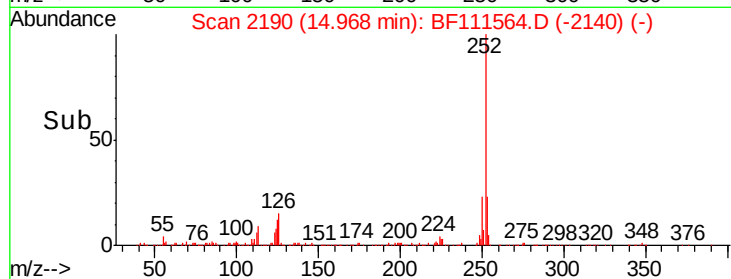
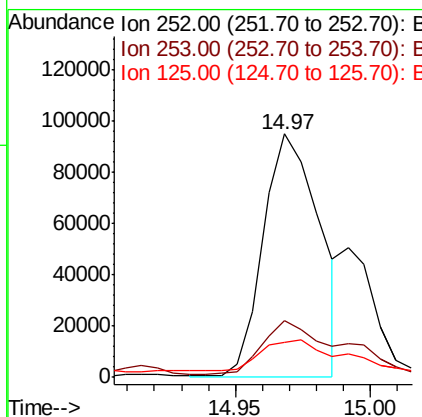
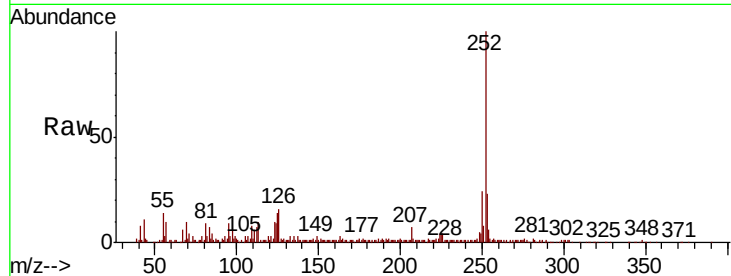
#88  
Benzo(b)fluoranthene  
Concen: 7.066 ng m  
RT: 14.97 min Scan# 2190  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampled :  
TP-7-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.2  | 27.2  |
| 125     | 14.4  | 10.4  | 15.6  |

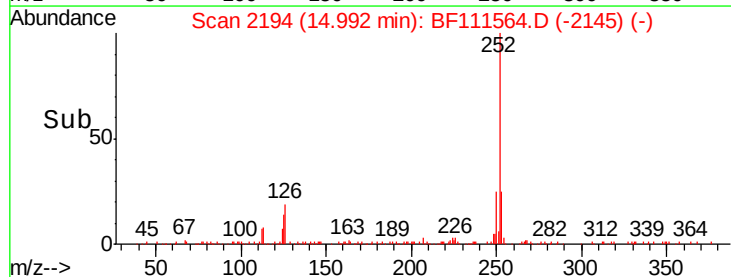
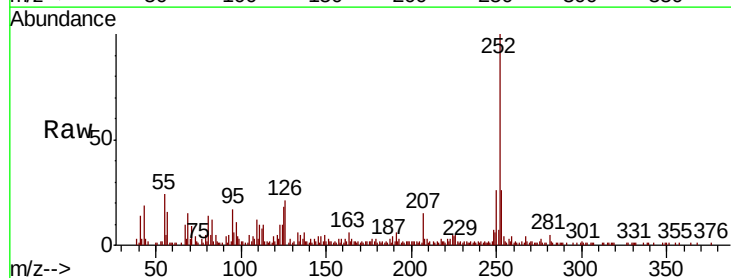
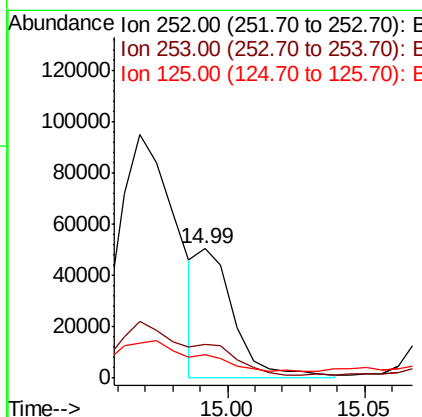
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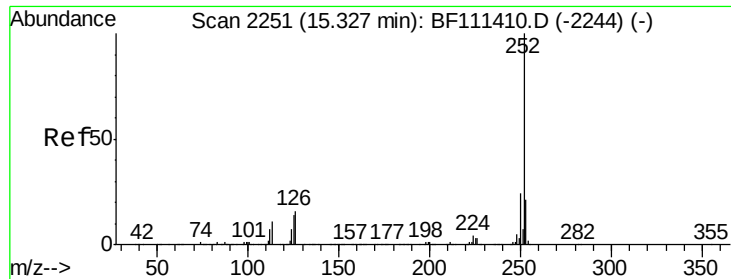
Sohil  
12/18/2018 12:49:57 PM



#89  
Benzo(k)fluoranthene  
Concen: 2.491 ng m  
RT: 14.99 min Scan# 2194  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.5  | 18.1  | 27.1  |
| 125     | 18.1  | 9.8   | 14.8# |





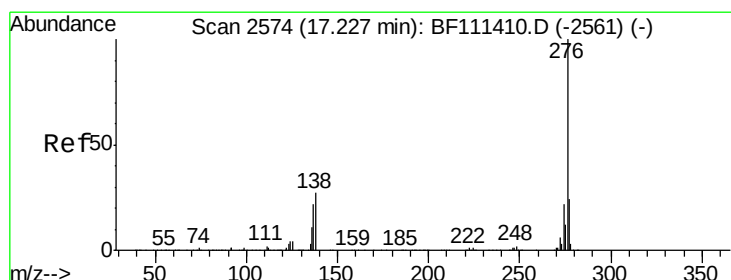
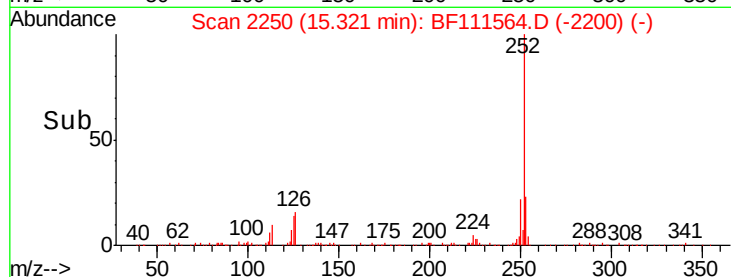
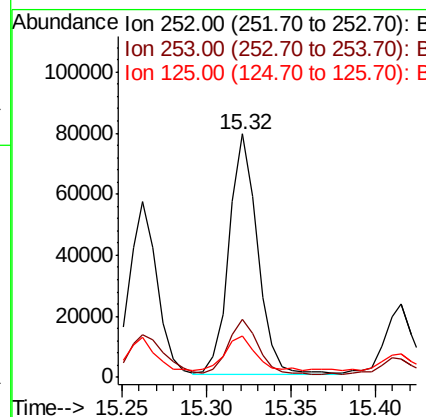
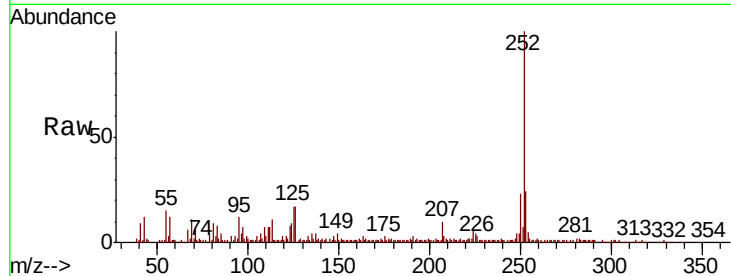
#90  
Benzo(a)pyrene  
Concen: 5.223 ng  
RT: 15.32 min Scan# 2250  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

Instrument :  
BNA\_F  
ClientSampleId :  
TP-7-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.8  | 26.8  |
| 125     | 16.8  | 12.3  | 18.5  |

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#92  
Benzo(g,h,i)perylene  
Concen: 3.502 ng  
RT: 17.22 min Scan# 2573  
Delta R.T. -0.01 min  
Lab File: BF111564.D  
Acq: 18 Dec 2018 2:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.1  | 19.2  | 28.8  |
| 138     | 27.7  | 24.9  | 37.3  |

