

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101818\  
 Data File : BF109987.D  
 Acq On : 19 Oct 2018 4:12  
 Operator : JU/SJ  
 Sample : J5579-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 7-1-ROLLOFFS

Manual Integrations  
 APPROVED

Sohil  
 10/19/2018 12:15:14 PM

Quant Time: Oct 19 11:08:21 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 16 14:58:24 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.97  | 152  | 182644   | 20.00 | ng    | 0.00        |
| 21) Naphthalene-d8             | 8.26  | 136  | 651662   | 20.00 | ng    | 0.00        |
| 39) Acenaphthene-d10           | 10.02 | 164  | 254080   | 20.00 | ng    | 0.00        |
| 64) Phenanthrene-d10           | 11.51 | 188  | 441743   | 20.00 | ng    | 0.00        |
| 76) Chrysene-d12               | 14.16 | 240  | 351659   | 20.00 | ng    | 0.00        |
| 87) Perylene-d12               | 15.69 | 264  | 261295   | 20.00 | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 5) 2-Fluorophenol              | 5.60  | 112  | 974711   | 84.59 | ng    | 0.00        |
| 7) Phenol-d6                   | 6.60  | 99   | 1161395  | 81.17 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 7.54  | 82   | 678473   | 70.14 | ng    | -0.01       |
| 42) 2,4,6-Tribromophenol       | 10.81 | 330  | 203665   | 92.59 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 9.33  | 172  | 1003291  | 63.01 | ng    | 0.00        |
| 79) Terphenyl-d14              | 13.10 | 244  | 853137   | 50.94 | ng    | 0.00        |
| Target Compounds               |       |      |          |       |       |             |
| 10) Phenol                     | 6.61  | 94   | 124250   | 8.043 | ng    | Qvalue # 62 |
| 50) Dimethylphthalate          | 9.72  | 163  | 151507   | 8.421 | ng    | 100         |
| 71) Phenanthrene               | 11.53 | 178  | 69954    | 3.059 | ng    | 99          |
| 75) Fluoranthene               | 12.73 | 202  | 91303    | 3.996 | ng    | 98          |
| 78) Pyrene                     | 12.96 | 202  | 107754   | 4.172 | ng    | 98          |
| 81) Benzo(a)anthracene         | 14.14 | 228  | 53169    | 2.567 | ng    | # 90        |
| 83) Chrysene                   | 14.18 | 228  | 47207m   | 2.394 | ng    |             |
| 84) Bis(2-ethylhexyl)phthalate | 14.12 | 149  | 45267    | 3.295 | ng    | # 89        |
| 88) Benzo(b)fluoranthene       | 15.23 | 252  | 46729m   | 3.102 | ng    |             |
| 90) Benzo(a)pyrene             | 15.62 | 252  | 34727    | 2.506 | ng    | # 82        |

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

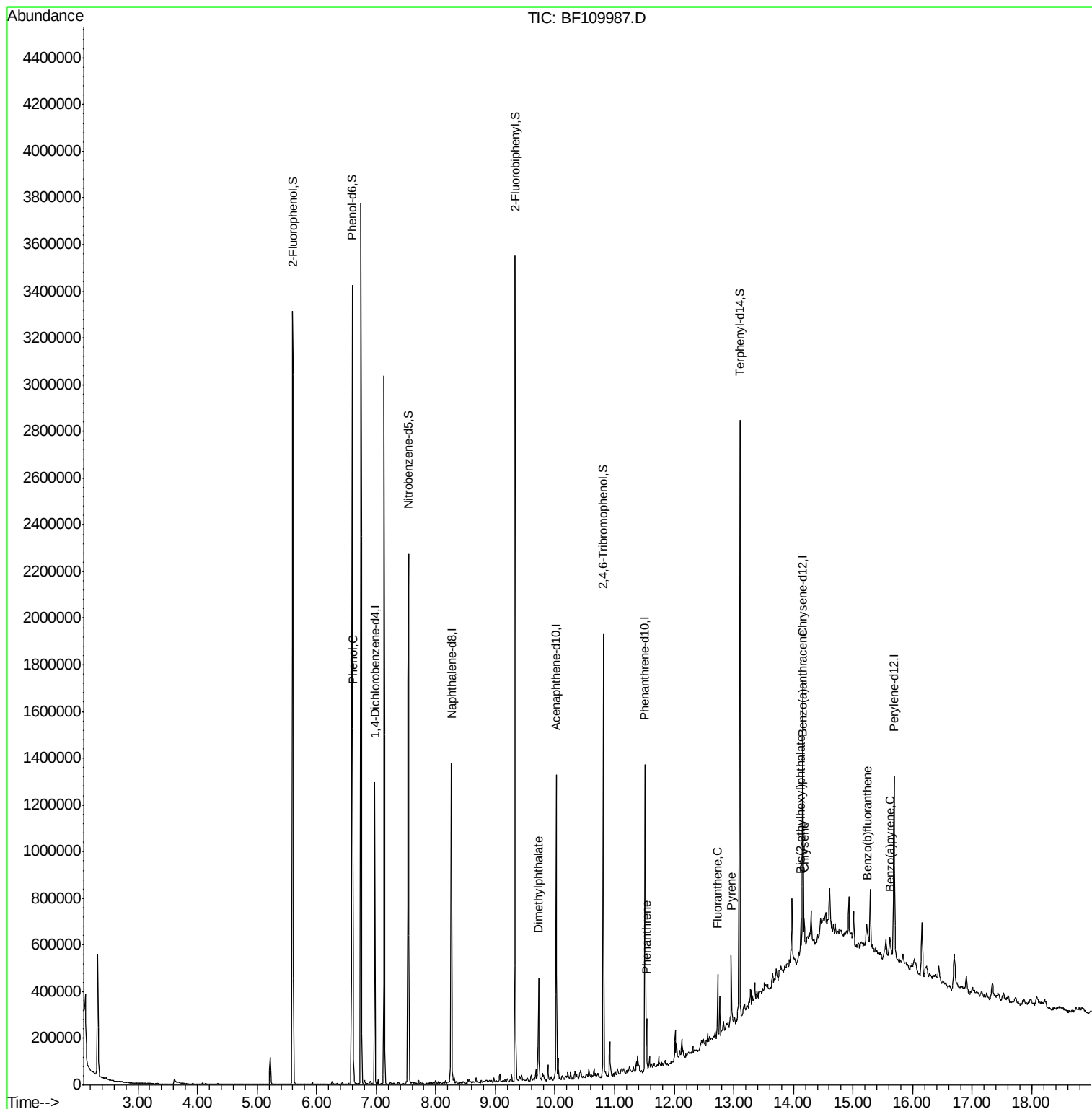
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101818\  
Data File : BF109987.D  
Acq On : 19 Oct 2018 4:12  
Operator : JU/SJ  
Sample : J5579-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

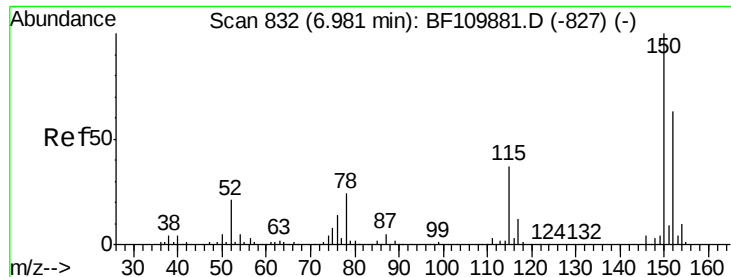
Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

Manual Integrations  
APPROVED

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10/19/2018 12:15:14 PM

Quant Time: Oct 19 11:08:21 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 16 14:58:24 2018  
Response via : Initial Calibration





#1

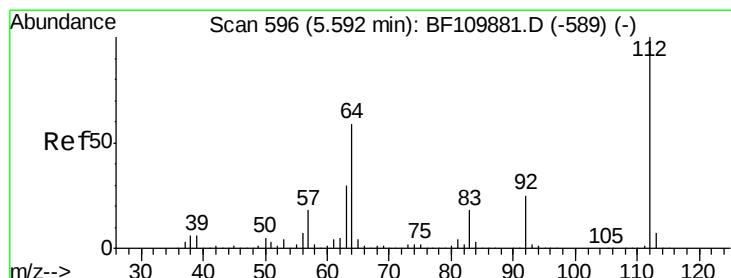
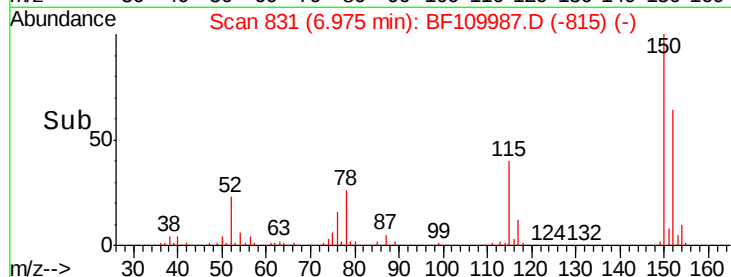
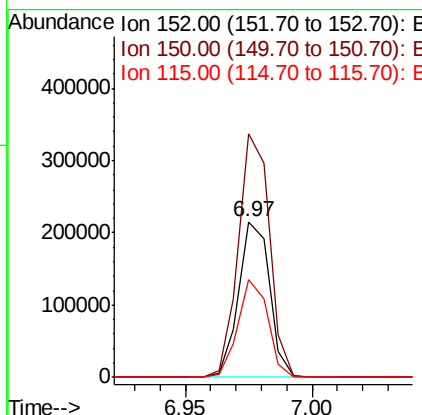
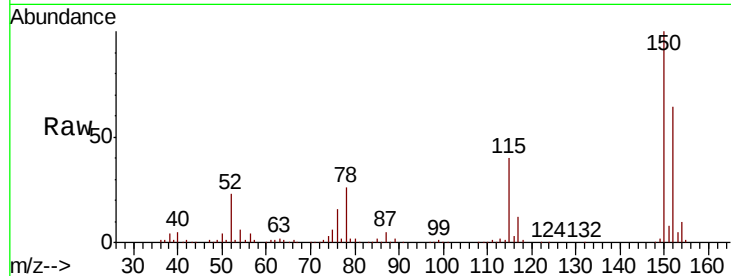
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 831  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.8 | 122.7 | 184.1 |
| 115     | 62.7  | 49.1  | 73.7  |

Manual Integrations  
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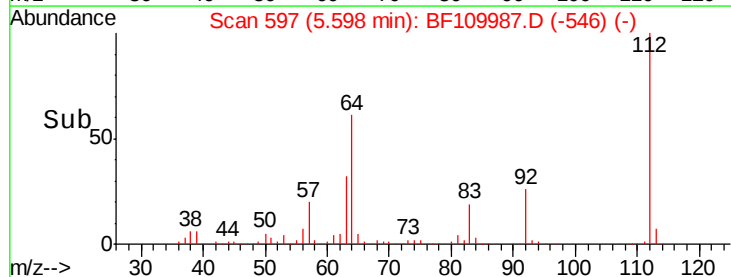
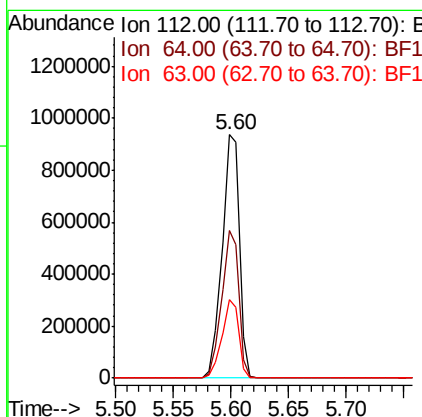
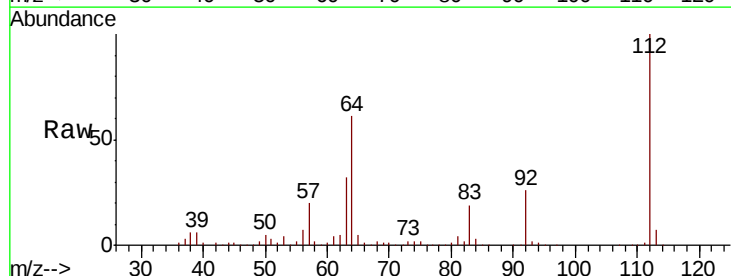
Sohil  
10/19/2018 12:15:14 PM



#5

2-Fluorophenol  
Concen: 84.593 ng  
RT: 5.60 min Scan# 597  
Delta R.T. -0.00 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.7  | 44.1  | 66.1  |
| 63      | 32.2  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 81.173 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

Instrument :

BNA\_F

ClientSampleId :

7-1-ROLLOFFS

Tot Ion: 99 Resp: 1161395

Ion Ratio Lower Upper

99 100

42 19.0 15.8 23.6

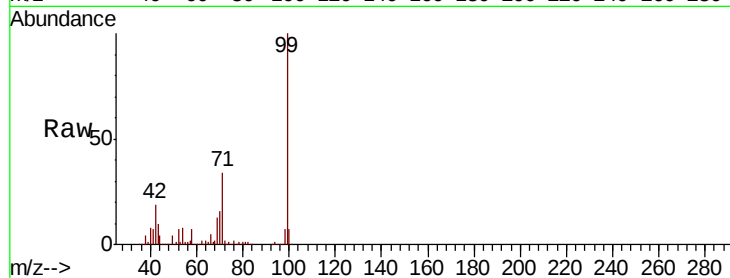
71 34.4 28.0 42.0

Manual Integrations

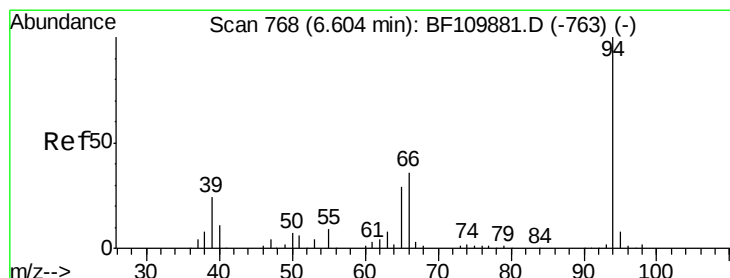
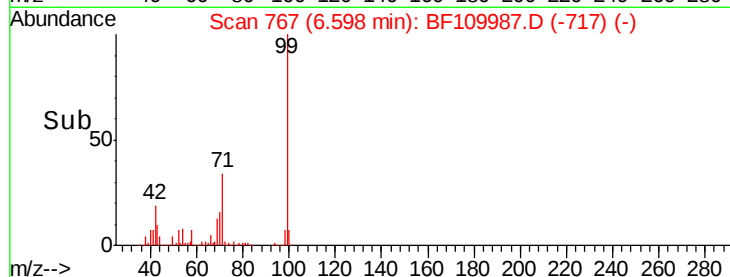
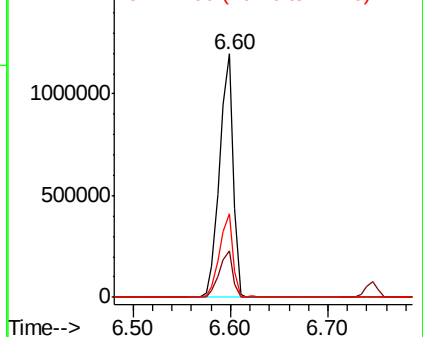
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 8.043 ng

RT: 6.61 min Scan# 769

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

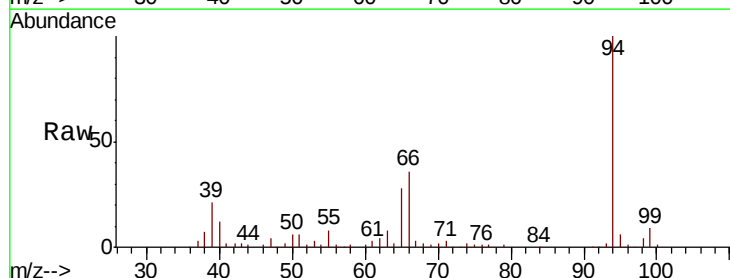
Tgt Ion: 94 Resp: 124250

Ion Ratio Lower Upper

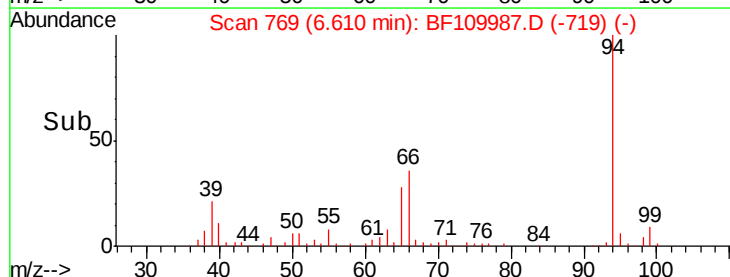
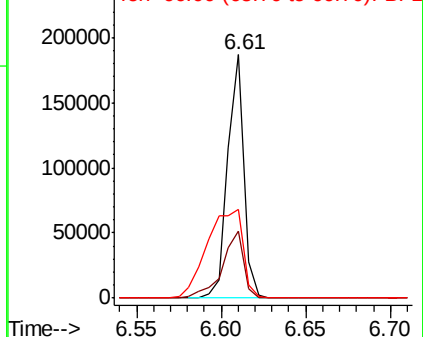
94 100

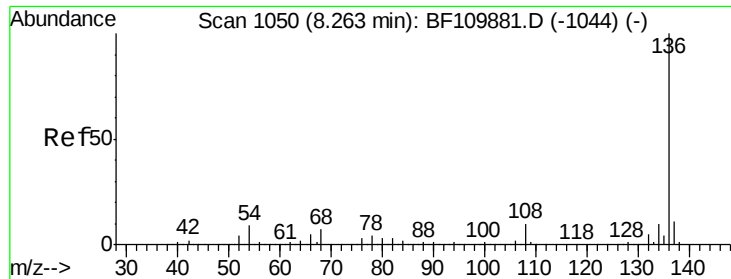
65 27.7 25.3 65.3

66 36.2 54.5 94.5#



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





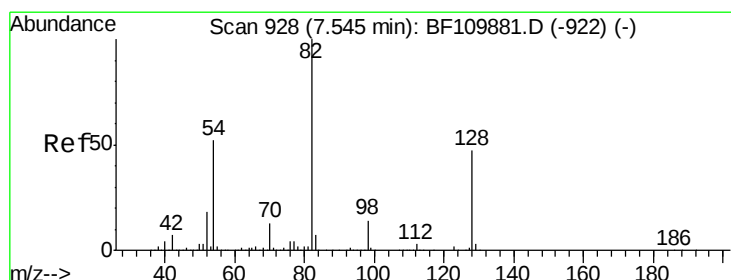
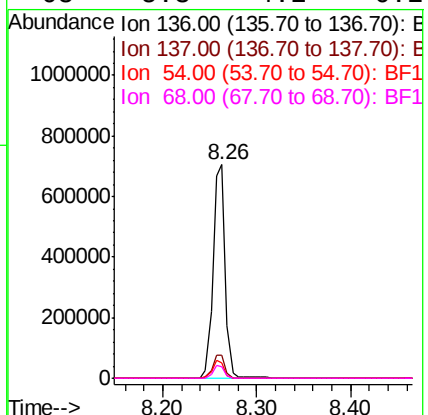
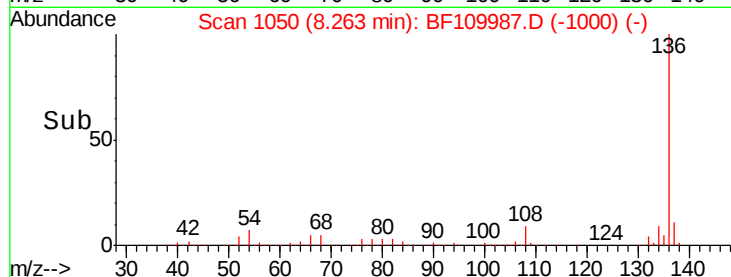
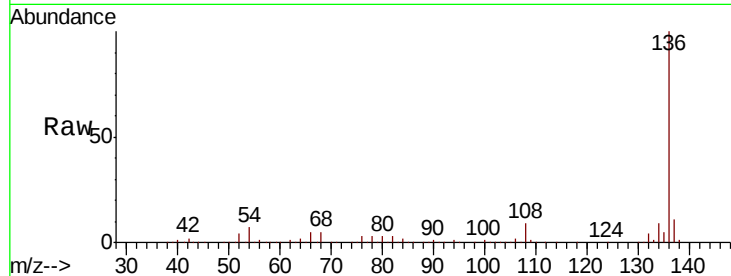
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.26 min Scan# 1050  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 651662 |       |       |
| 137     | 10.6 | 8.8   | 13.2   |       |       |
| 54      | 7.4  | 5.4   | 8.2    |       |       |
| 68      | 5.3  | 4.2   | 6.2    |       |       |

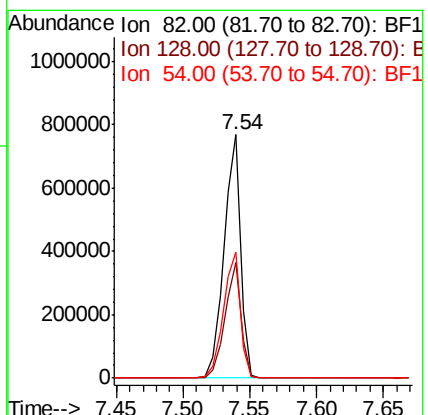
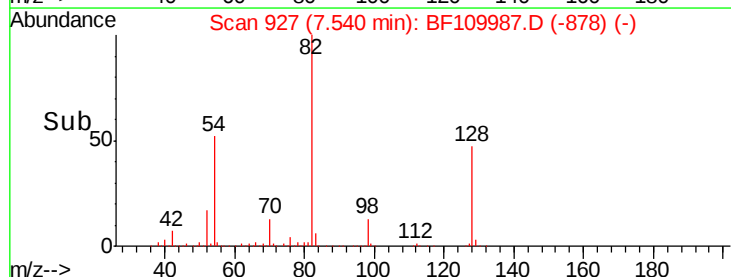
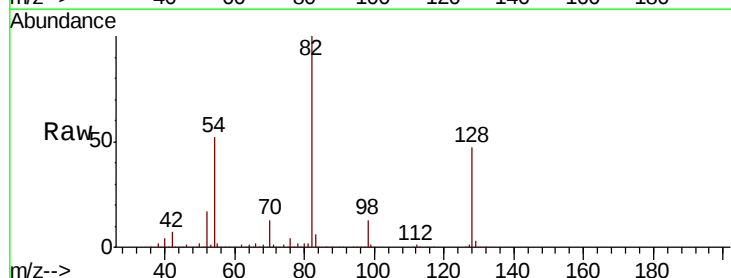
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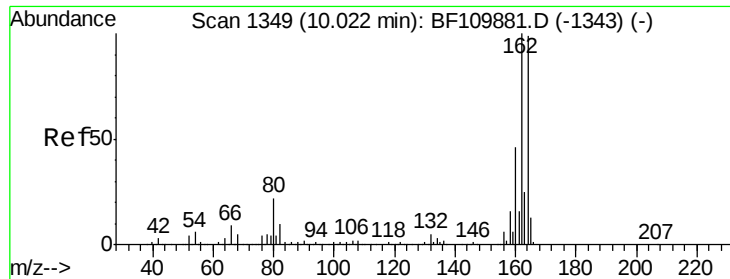
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#23  
Nitrobenzene-d5  
Concen: 70.135 ng  
RT: 7.54 min Scan# 927  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 678473 |       |       |
| 128     | 47.4 | 34.2  | 51.2   |       |       |
| 54      | 51.6 | 38.6  | 58.0   |       |       |





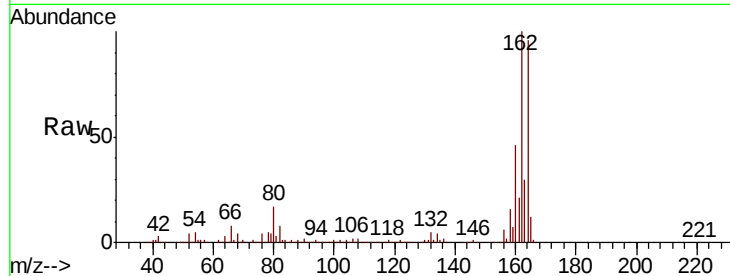
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.02 min Scan# 1349  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.5 | 83.0 | 124.6 |       |
| 160     | 48.4  | 37.0 | 55.6  |       |

Manual Integrations  
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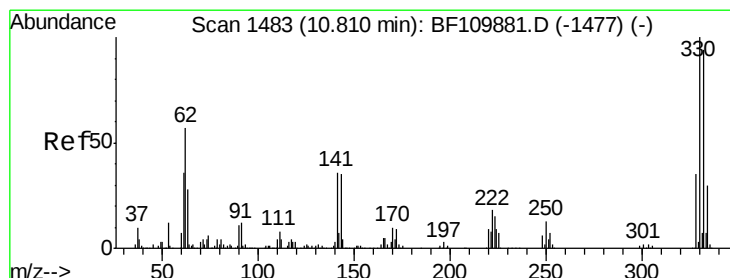
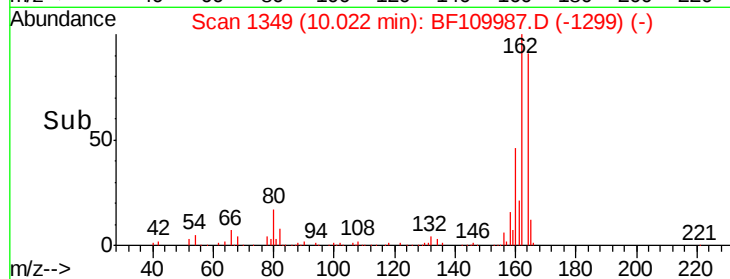
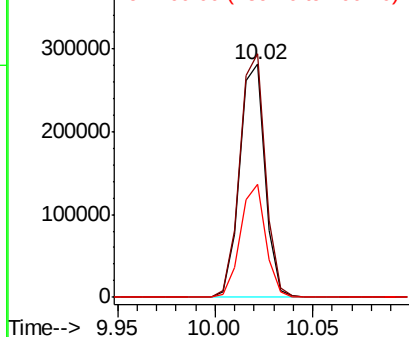


Abundance

Ion 164.00 (163.70 to 164.70): E

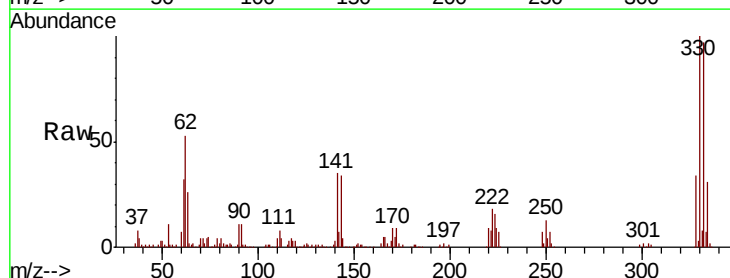
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42  
2,4,6-Tribromophenol  
Concen: 92.585 ng  
RT: 10.81 min Scan# 1483  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.1  | 77.1 | 115.7 |       |
| 141     | 37.1  | 27.0 | 40.4  |       |

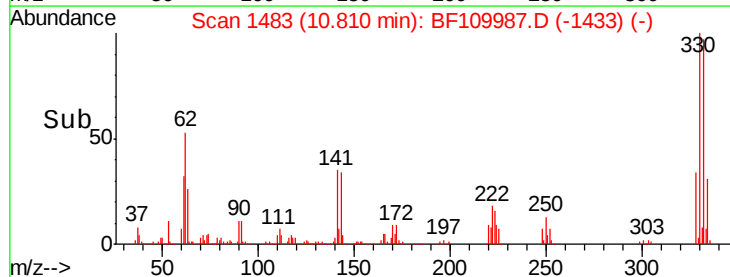
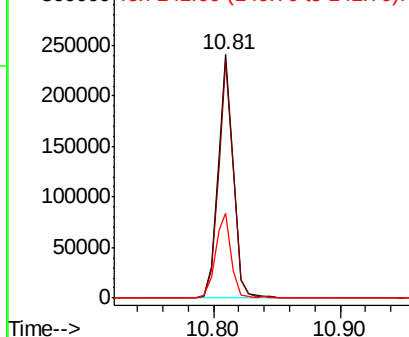


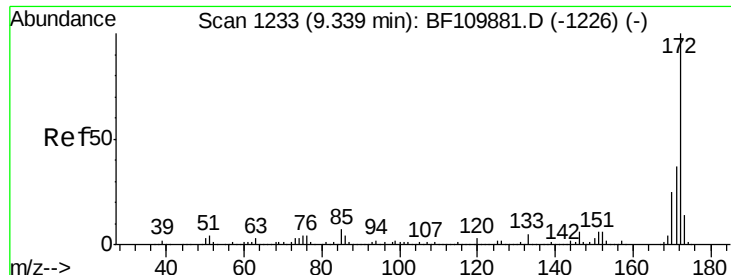
Abundance

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





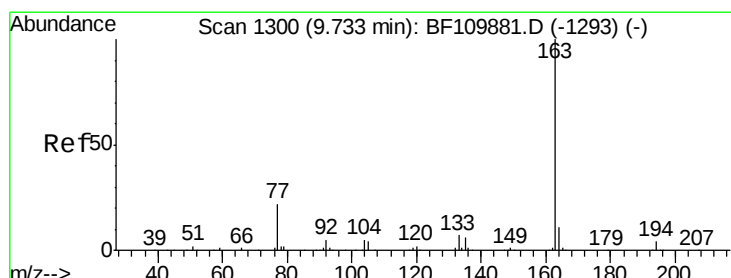
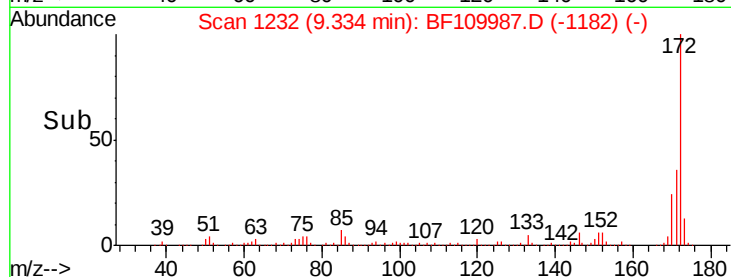
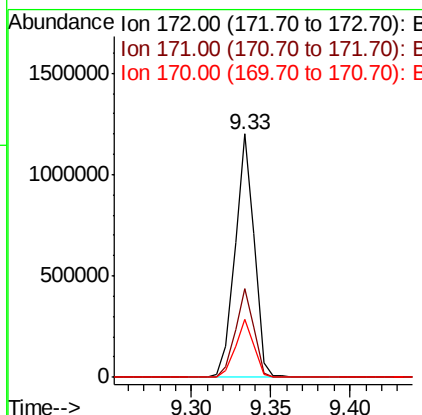
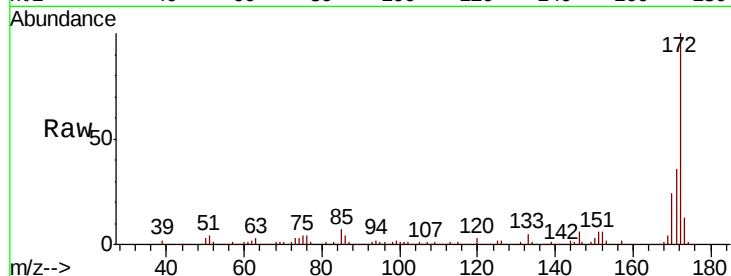
#45  
2-Fluorobiphenyl  
Concen: 63.008 ng  
RT: 9.33 min Scan# 1232  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 28.6  | 43.0  |
| 170     | 23.9  | 19.7  | 29.5  |

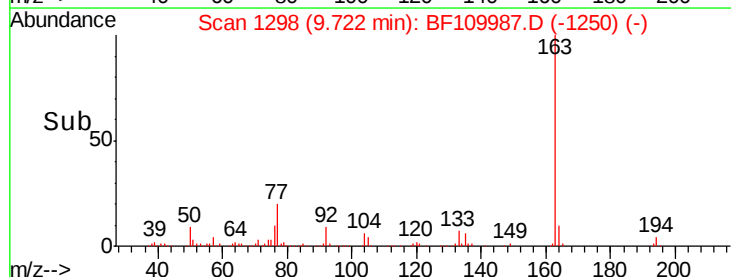
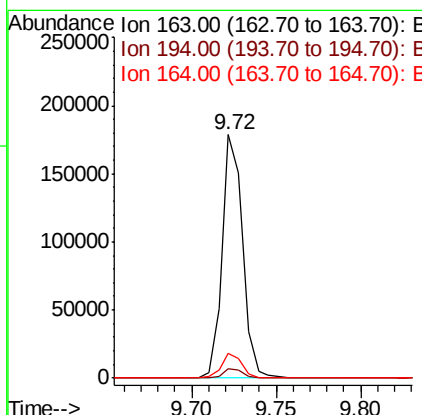
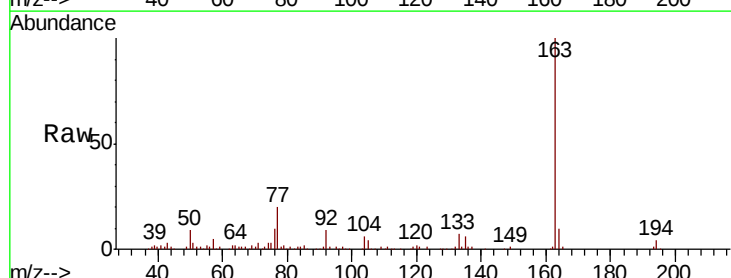
Manual Integrations  
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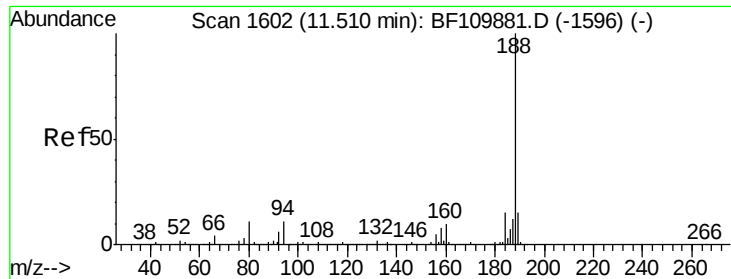
Sohil  
10/19/2018 12:15:14 PM



#50  
Dimethylphthalate  
Concen: 8.421 ng  
RT: 9.72 min Scan# 1298  
Delta R.T. -0.02 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.7   | 3.2   | 4.8   |
| 164     | 10.1  | 8.1   | 12.1  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

Instrument :

BNA\_F

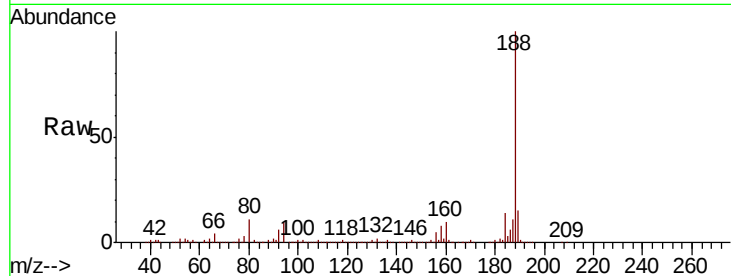
ClientSampleId :

7-1-ROLLOFFS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 441743 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.2  | 7.2   | 10.8   |
| 80        | 10.8  | 7.9   | 11.9   |

Manual Integrations  
APPROVED

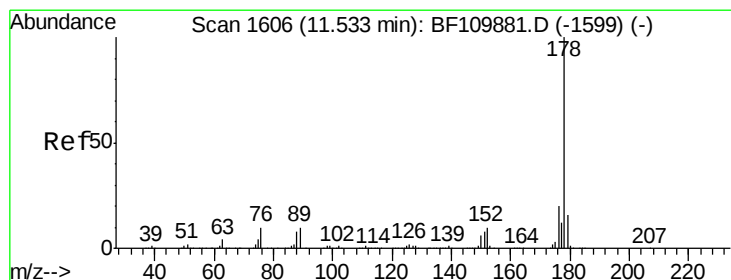
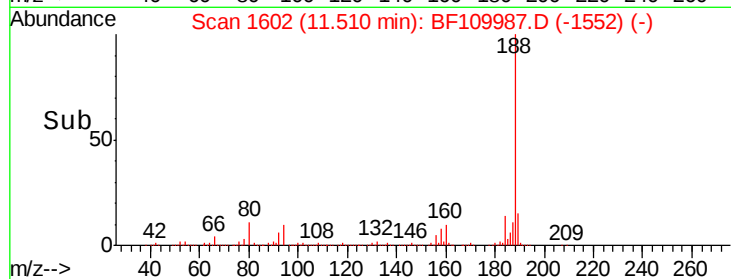
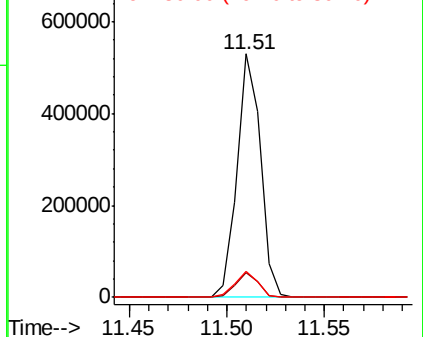
Sohil  
10/19/2018 12:15:14 PM



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: 3.059 ng

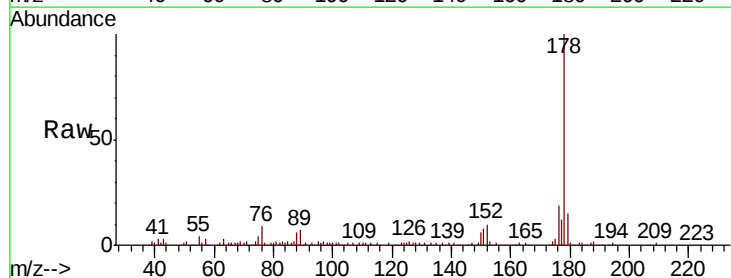
RT: 11.53 min Scan# 1606

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

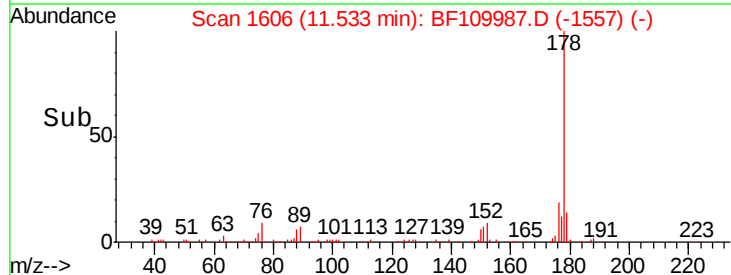
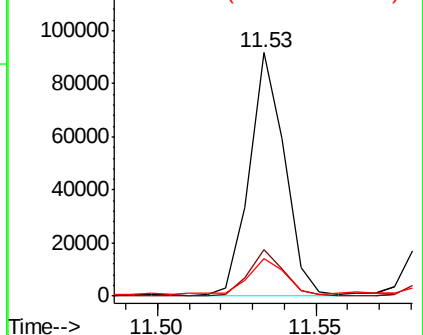
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 69954 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.3  | 15.5  | 23.3  |
| 179       | 15.2  | 12.5  | 18.7  |

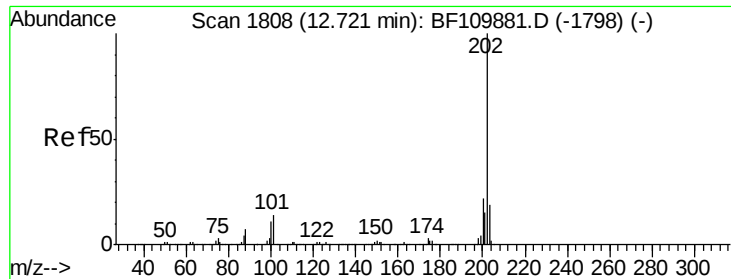


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 3.996 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

Instrument :

BNA\_F

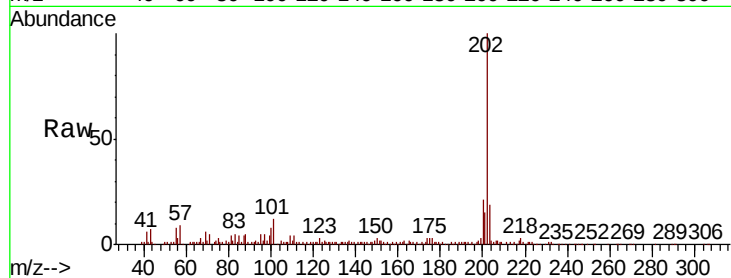
ClientSampleId :

7-1-ROLLOFFS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 91303 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.8  | 0.0   | 31.4  |
| 203       | 18.6  | 0.0   | 37.7  |

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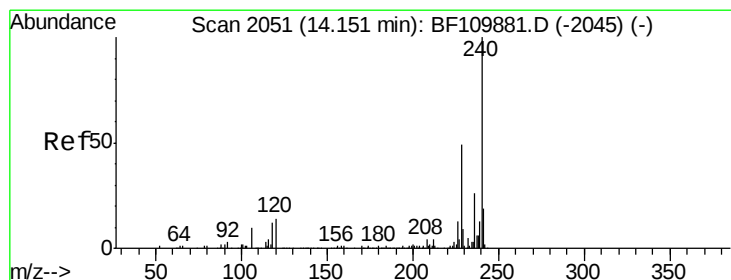
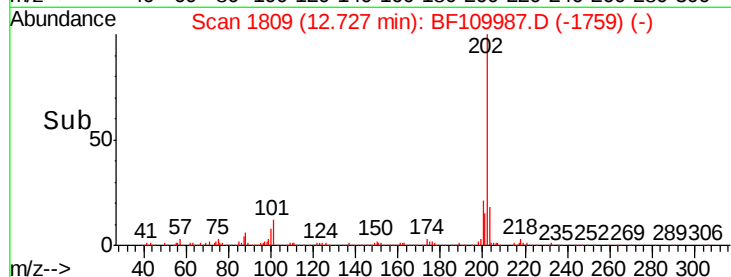
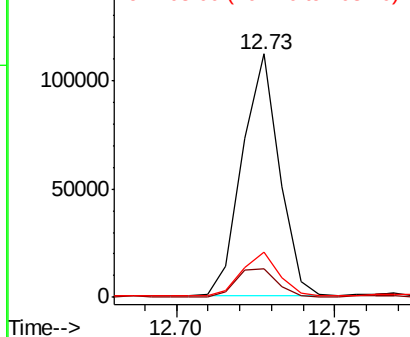


Abundance

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: 14.16 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

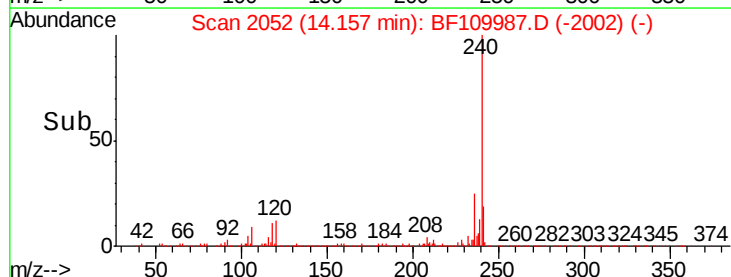
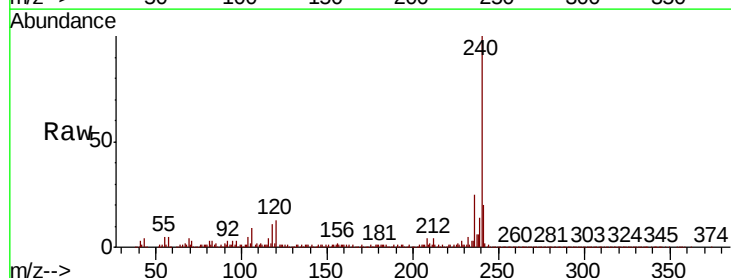
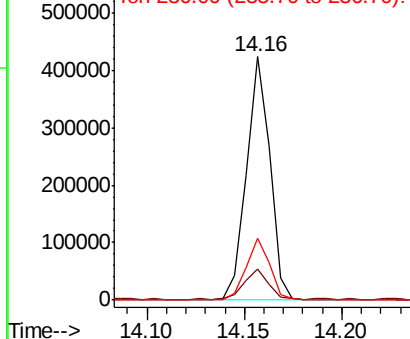
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 351659 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.6  | 8.3   | 12.5#  |
| 236       | 25.4  | 21.2  | 31.8   |

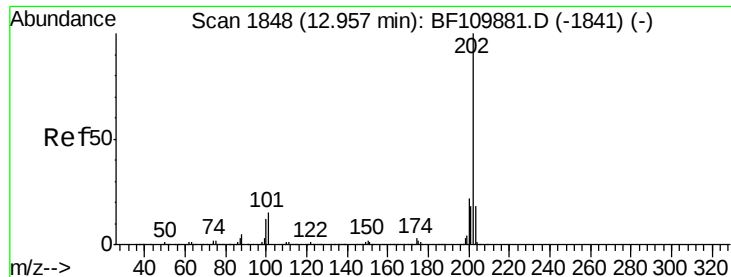
Abundance

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





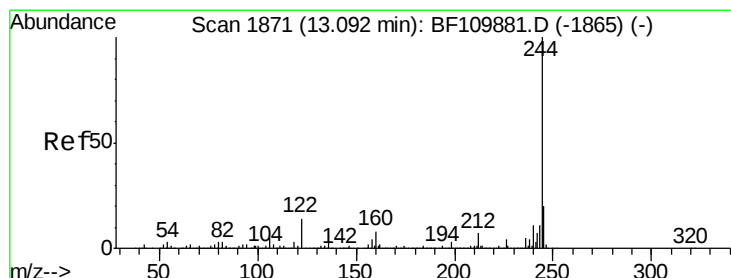
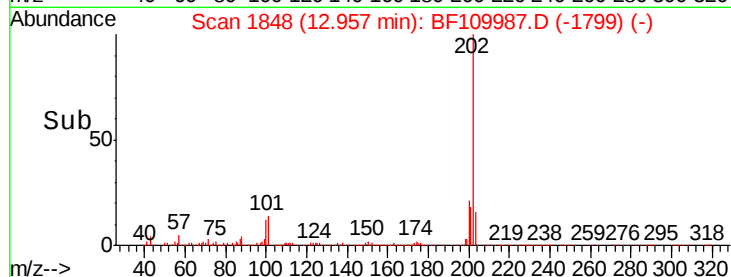
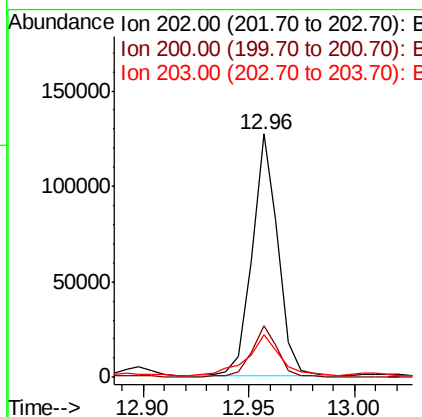
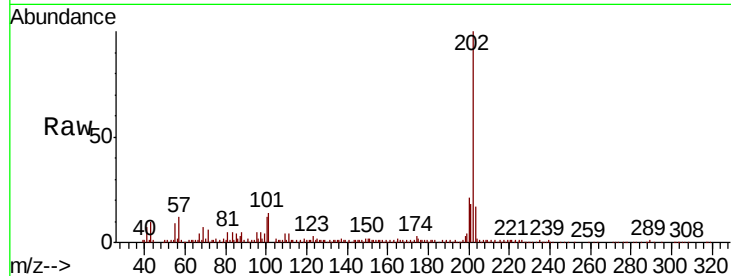
#78  
Pvrene  
Concen: 4.172 ng  
RT: 12.96 min Scan# 1848  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.8  | 26.6  |
| 203     | 17.3  | 14.2  | 21.4  |

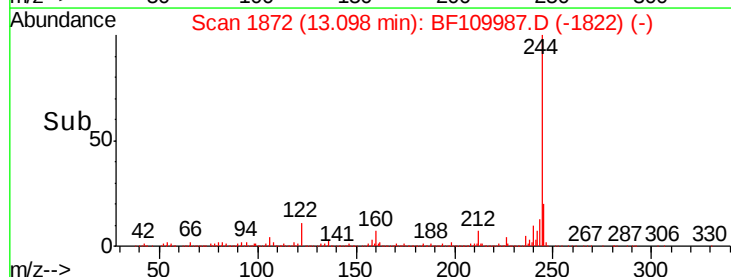
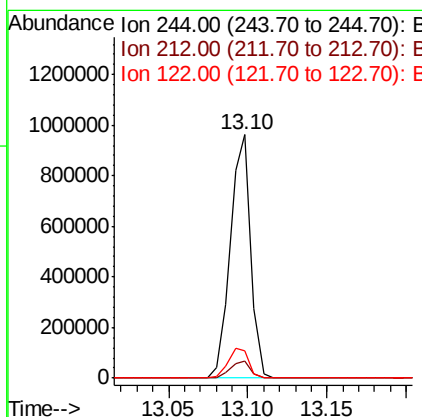
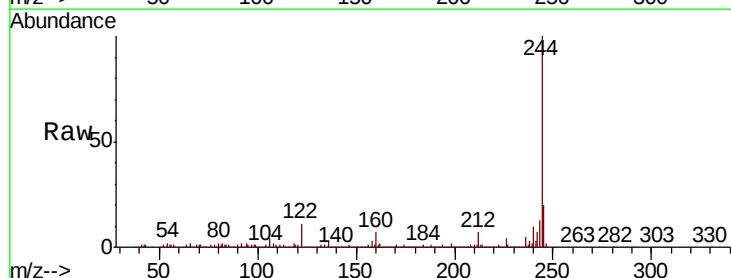
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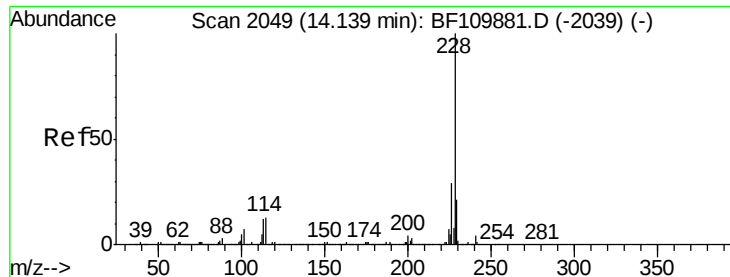
Sohil  
10/19/2018 12:15:14 PM



#79  
Terphenyl-d14  
Concen: 50.945 ng  
RT: 13.10 min Scan# 1872  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.8   | 8.8   |
| 122     | 11.1  | 8.7   | 13.1  |





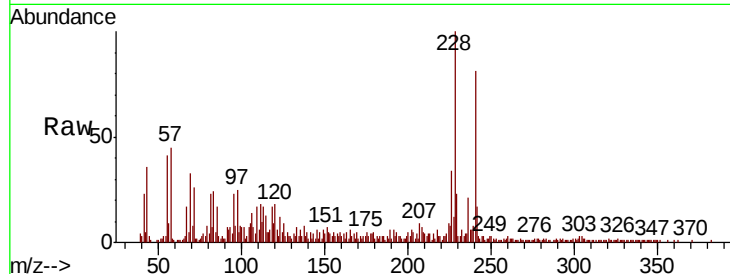
#81  
Benzo(a)anthracene  
Concen: 2.567 ng  
RT: 14.14 min Scan# 2050  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.0  | 22.1  | 33.1# |
| 229     | 22.6  | 15.6  | 23.4  |

Manual Integrations  
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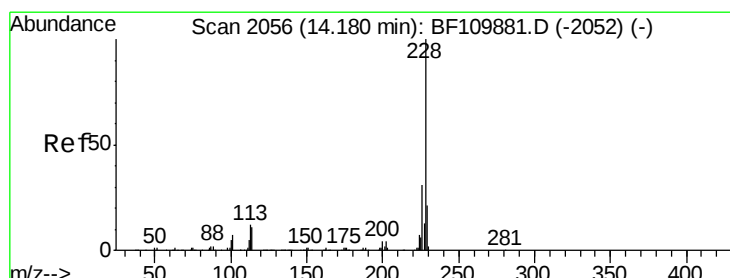
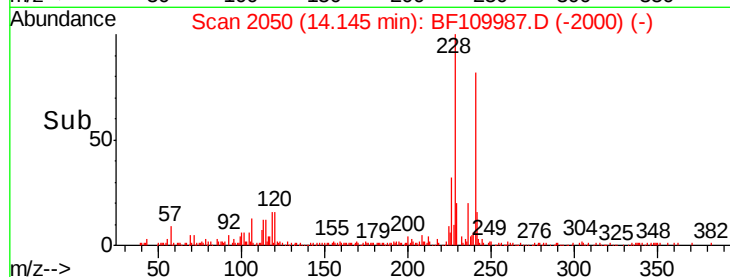
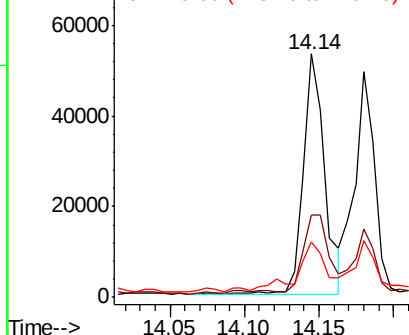


Abundance

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: 2.394 ng m  
RT: 14.18 min Scan# 2056  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

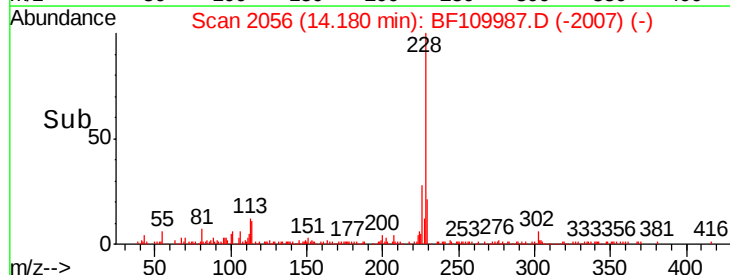
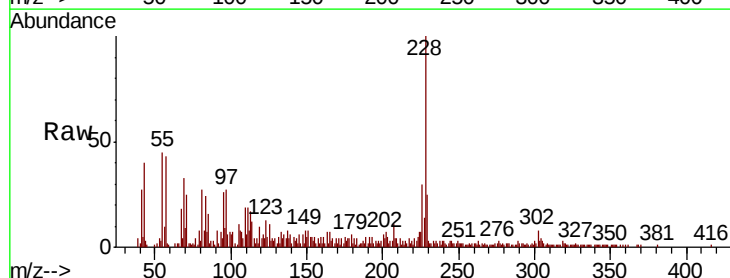
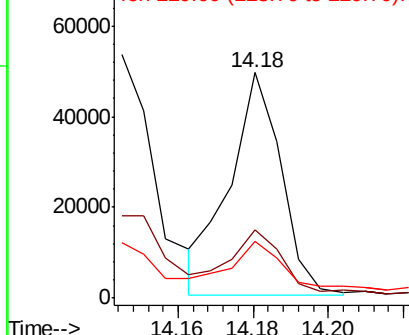
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 24.7  | 37.1  |
| 229     | 25.2  | 15.9  | 23.9# |

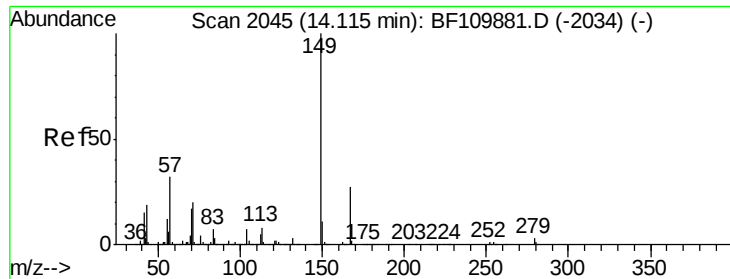
Abundance

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





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.295 ng

RT: 14.12 min Scan# 2046

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

Instrument :

BNA\_F

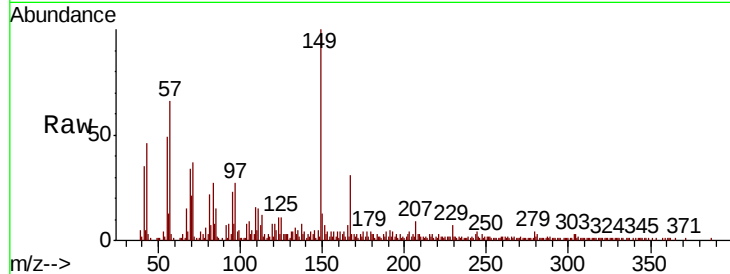
ClientSampleId :

7-1-ROLLOFFS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 45267 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 30.6  | 19.8  | 29.8# |
| 279       | 4.2   | 2.7   | 4.1#  |

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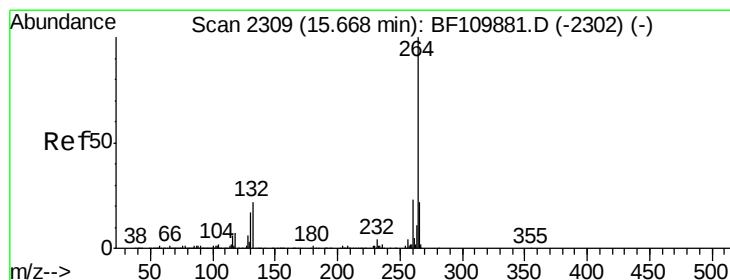
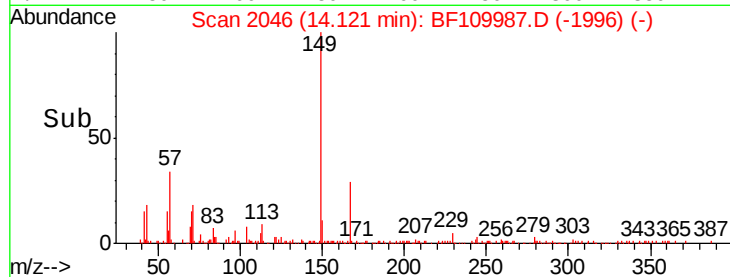
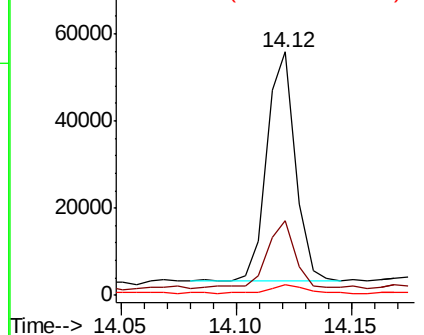
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#87

Perylene-d12

Concen: 20.000 ng

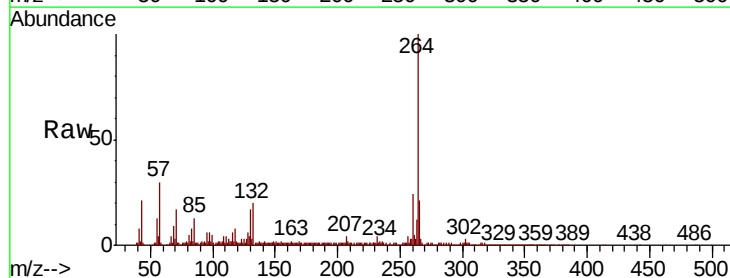
RT: 15.69 min Scan# 2312

Delta R.T. -0.01 min

Lab File: BF109987.D

Acq: 19 Oct 2018 4:12

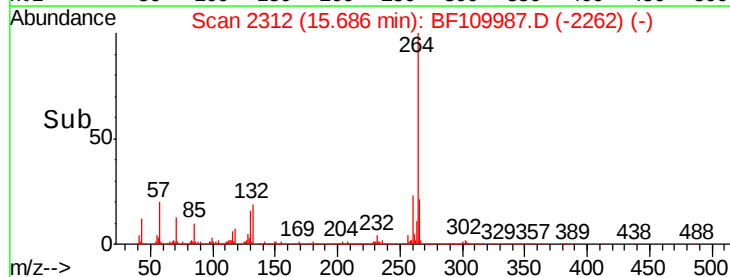
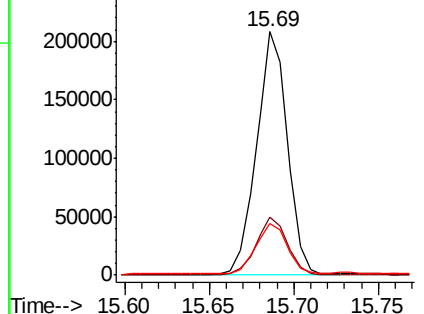
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 261295 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.6  | 18.7  | 28.1   |
| 265       | 21.1  | 16.7  | 25.1   |

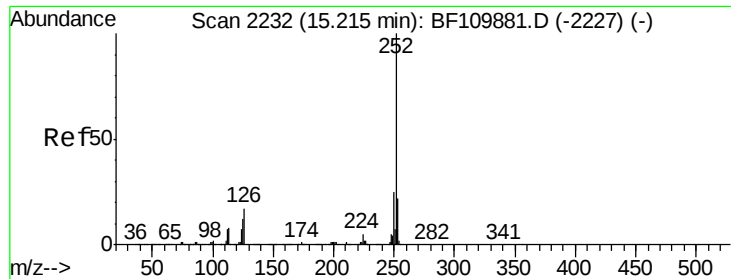


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





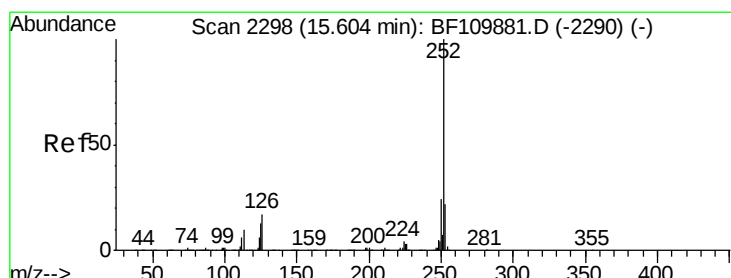
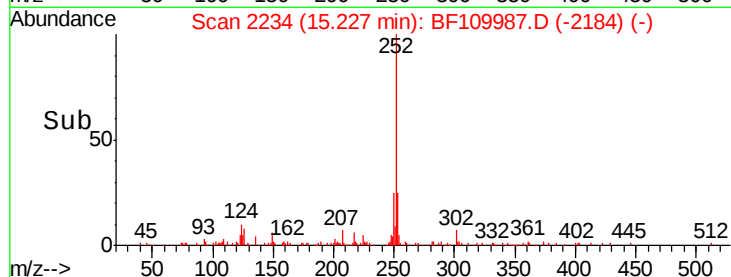
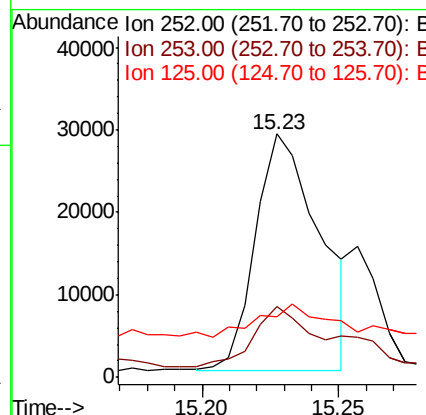
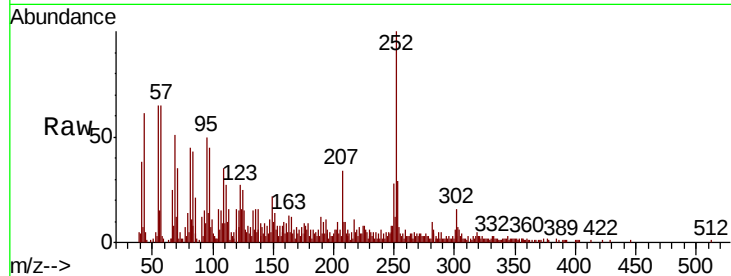
#88  
Benzo(b)fluoranthene  
Concen: 3.102 ng m  
RT: 15.23 min Scan# 2234  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

Instrument :  
BNA\_F  
ClientSampleId :  
7-1-ROLLOFFS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.2  | 17.2  | 25.8# |
| 125     | 24.9  | 8.2   | 12.4# |

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#90  
Benzo(a)pyrene  
Concen: 2.506 ng  
RT: 15.62 min Scan# 2300  
Delta R.T. -0.01 min  
Lab File: BF109987.D  
Acq: 19 Oct 2018 4:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 18.2  | 27.4  |
| 125     | 27.6  | 9.0   | 13.6# |

