

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
 Data File : BF111339.D  
 Acq On : 12 Dec 2018 23:23  
 Operator : JU/SJ  
 Sample : J6189-03 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-121118-B

Manual Integrations  
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 12/13/2018 6:06:50 PM

Quant Time: Dec 13 04:27:32 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 13:16:52 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 243527   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.07  | 136  | 810734   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.83  | 164  | 338636   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.32 | 188  | 570680   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.95 | 240  | 386296   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.39 | 264  | 301474   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.41  | 112  | 808153   | 56.12 | ng    | 0.00     |
| 7) Phenol-d6                | 6.42  | 99   | 996665   | 51.33 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 532948   | 37.05 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 144588   | 48.44 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 895993   | 42.48 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.90 | 244  | 735238   | 41.89 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 10) Phenol                  | 6.43  | 94   | 70187    | 3.191 | ng    | 93       |
| 37) 2-Methylnaphthalene     | 8.79  | 142  | 57849    | 2.369 | ng    | 97       |
| 50) Dimethylphthalate       | 9.55  | 163  | 62576    | 2.570 | ng    | # 97     |
| 75) Fluoranthene            | 12.53 | 202  | 208339   | 7.235 | ng    | 98       |
| 78) Pyrene                  | 12.76 | 202  | 262924   | 8.819 | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.94 | 228  | 95237    | 4.406 | ng    | 95       |
| 83) Chrysene                | 13.97 | 228  | 90072    | 4.085 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 14.97 | 252  | 68158m   | 3.976 | ng    |          |
| 90) Benzo(a)pyrene          | 15.33 | 252  | 59873    | 3.751 | ng    | # 79     |
| 92) Benzo(g,h,i)perylene    | 17.23 | 276  | 26710    | 2.012 | ng    | 91       |

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

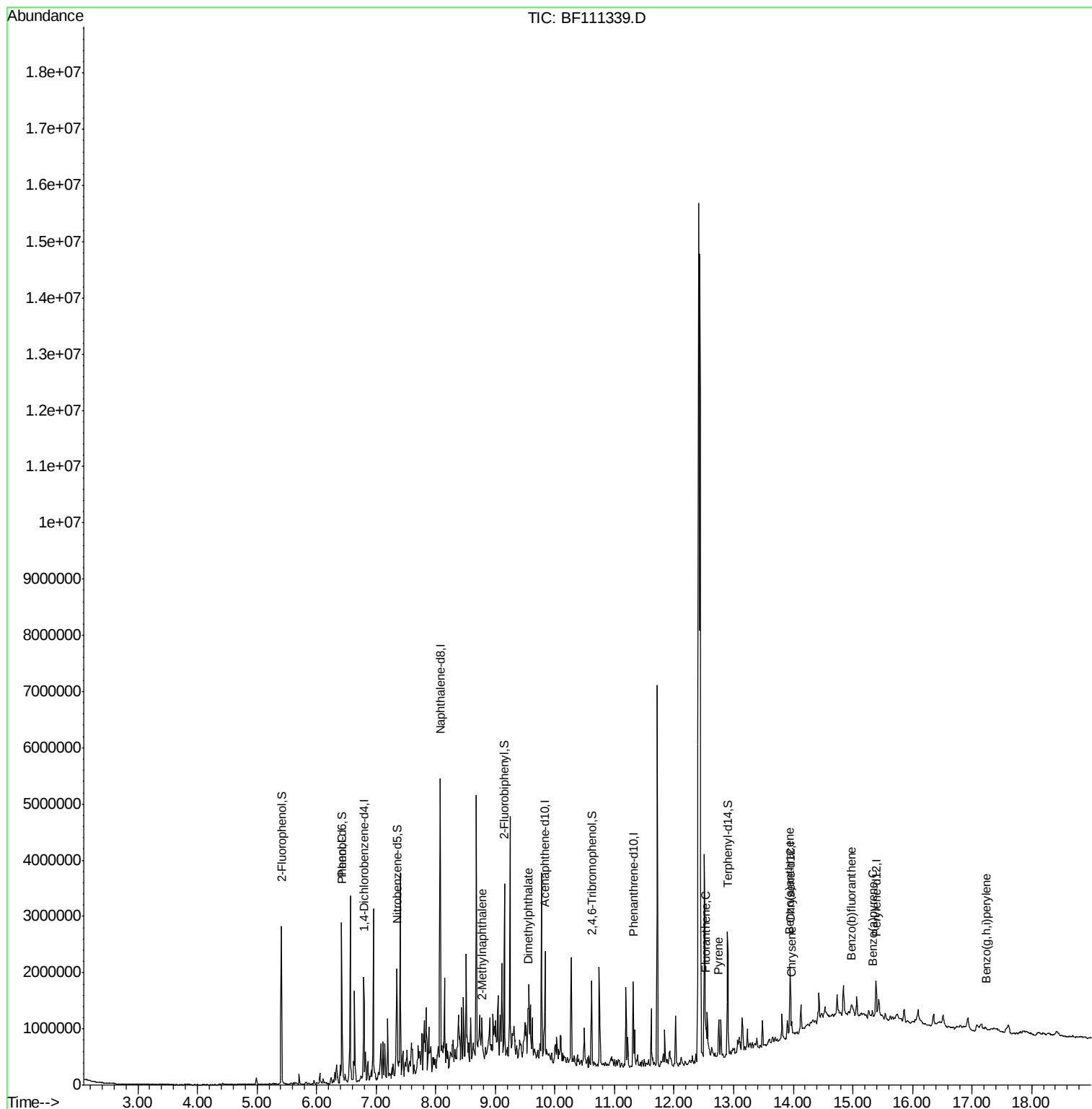
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111339.D  
Acq On : 12 Dec 2018 23:23  
Operator : JU/SJ  
Sample : J6189-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

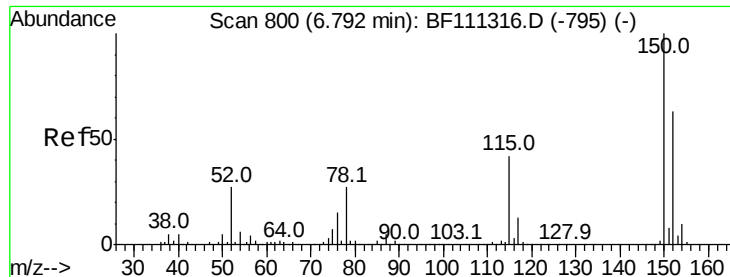
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-121118-B

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Quant Time: Dec 13 04:27:32 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 13:16:52 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.79 min Scan# 800

Delta R.T. -0.00 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

Instrument :

BNA\_F

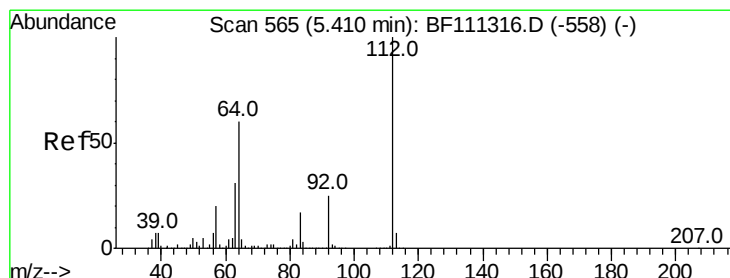
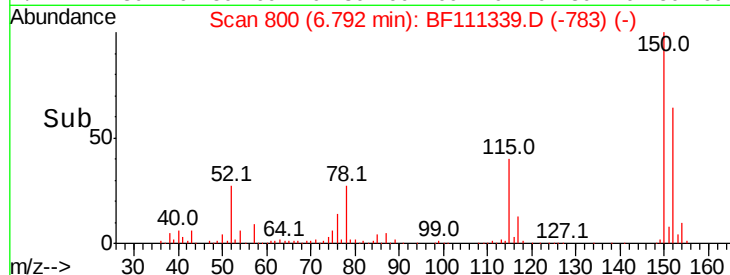
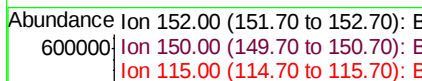
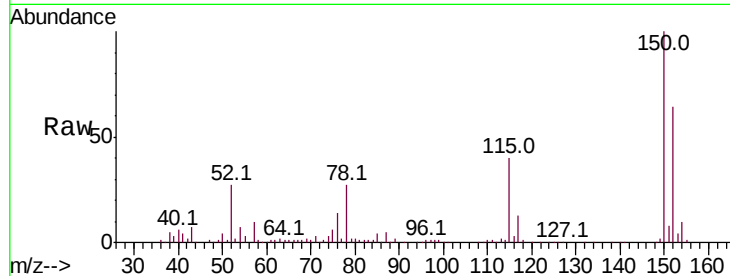
ClientSampleId :

HR-05-121118-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 243527 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 156.3 | 126.6 | 189.8  |
| 115       | 62.5  | 50.7  | 76.1   |

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#5

2-Fluorophenol

Concen: 56.117 ng

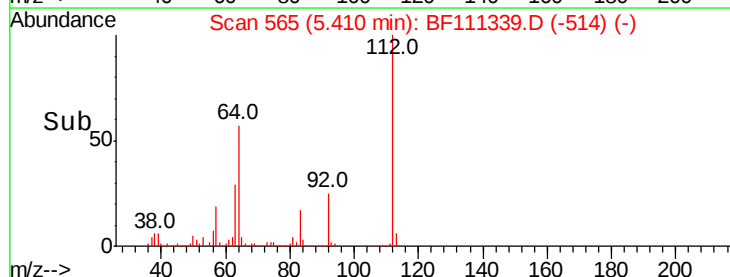
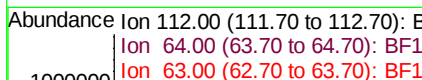
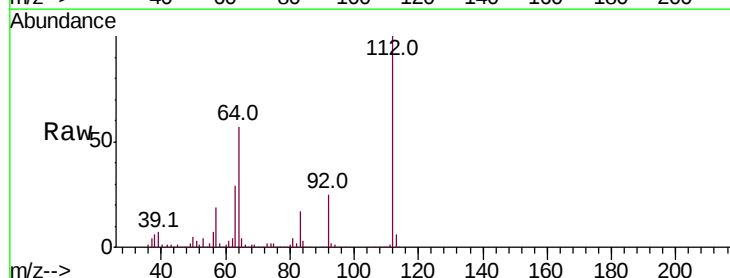
RT: 5.41 min Scan# 565

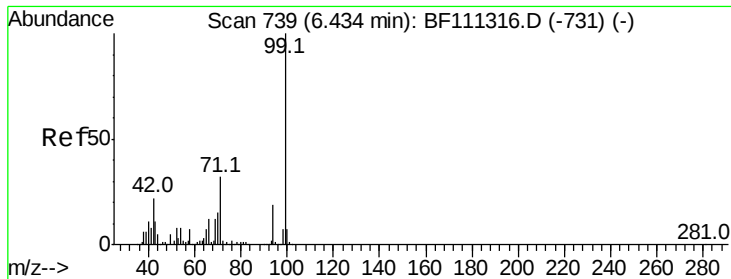
Delta R.T. 0.00 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 808153 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 57.2  | 51.8  | 77.6   |
| 63        | 29.2  | 26.8  | 40.2   |





#7

Phenol-d6

Concen: 51.331 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

Instrument :

BNA\_F

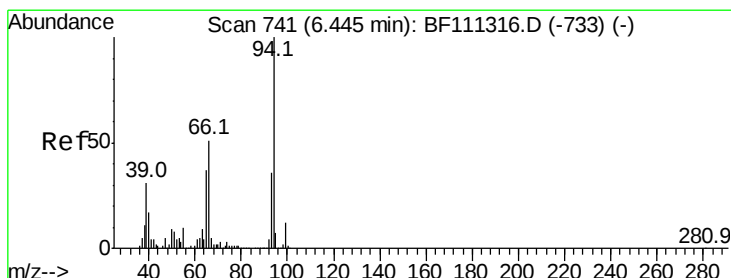
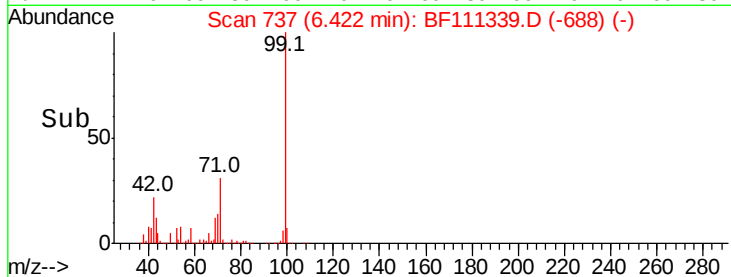
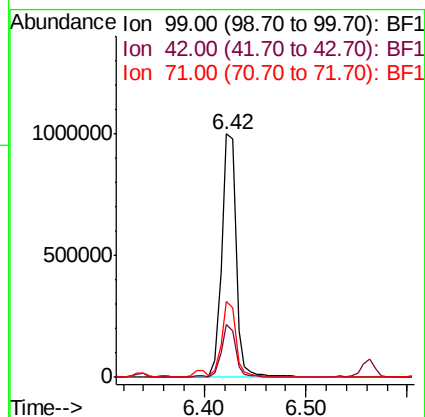
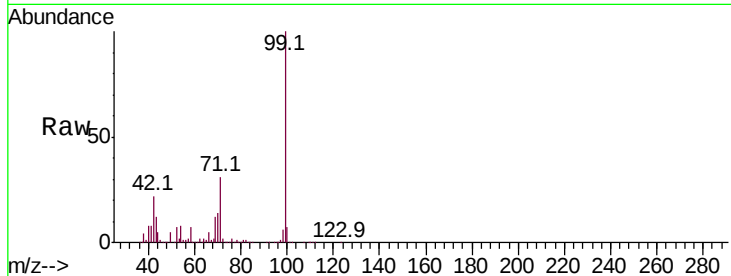
ClientSampleId :

HR-05-121118-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 996665 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.8  | 17.4  | 26.0   |
| 71        | 31.1  | 26.1  | 39.1   |

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#10

Phenol

Concen: 3.191 ng

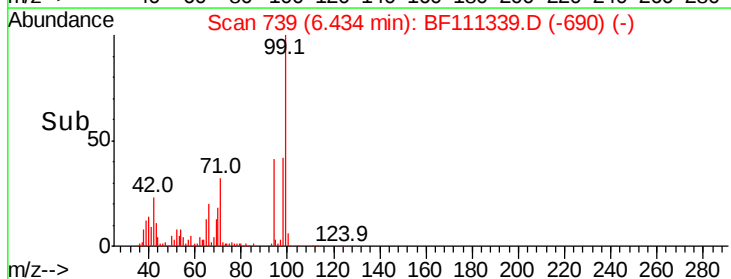
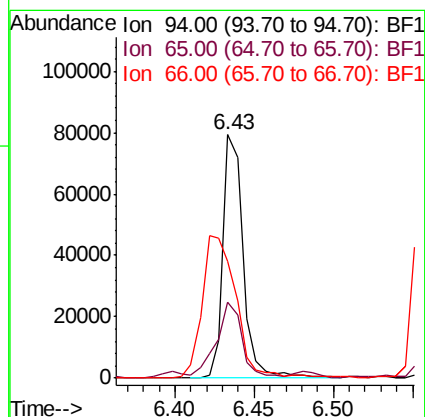
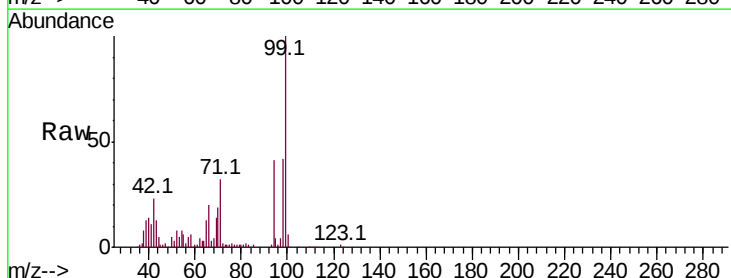
RT: 6.43 min Scan# 739

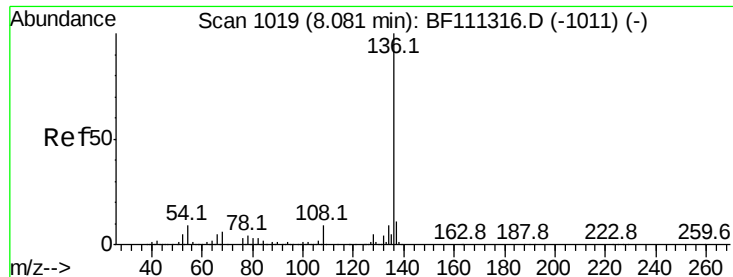
Delta R.T. -0.01 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 70187 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 30.9  | 11.7  | 51.7  |
| 66        | 47.9  | 21.0  | 61.0  |





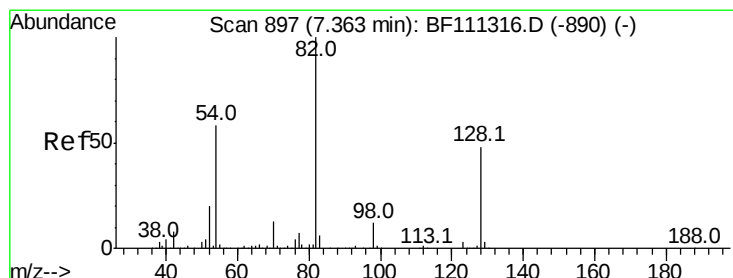
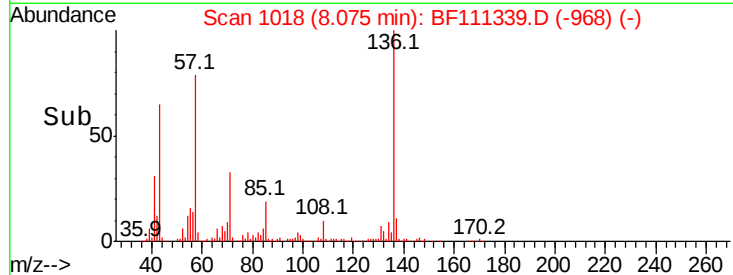
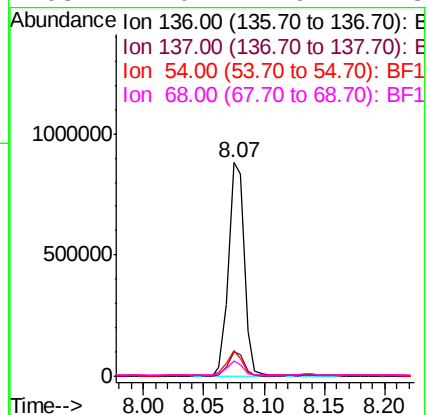
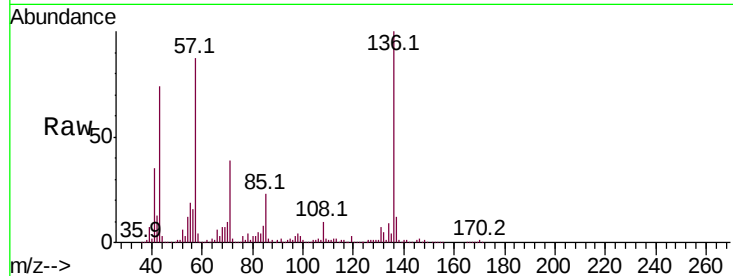
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-121118-B

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 810734 |       |       |
| 137     | 11.6 | 9.1   | 13.7   |       |       |
| 54      | 11.8 | 7.7   | 11.5   |       |       |
| 68      | 7.0  | 4.9   | 7.3    |       |       |

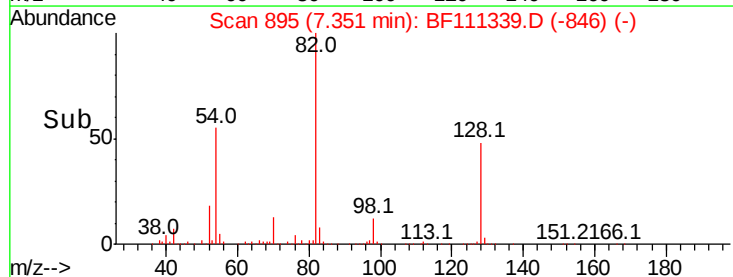
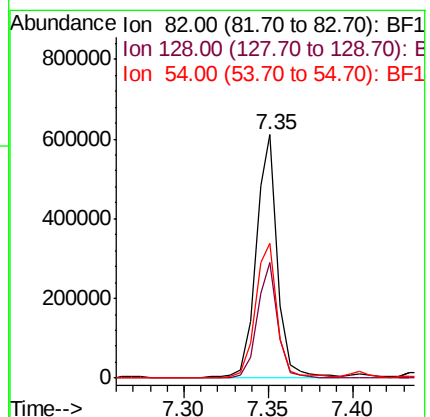
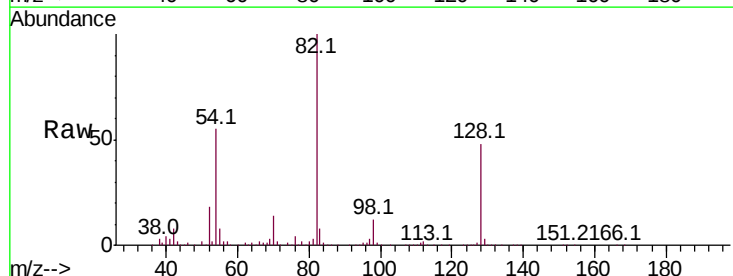
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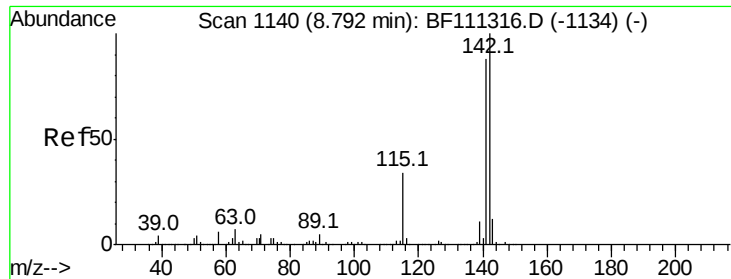
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#23  
Nitrobenzene-d5  
Concen: 37.051 ng  
RT: 7.35 min Scan# 895  
Delta R.T. -0.01 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 532948 |       |       |
| 128     | 47.6 | 37.4  | 56.2   |       |       |
| 54      | 55.4 | 47.6  | 71.4   |       |       |





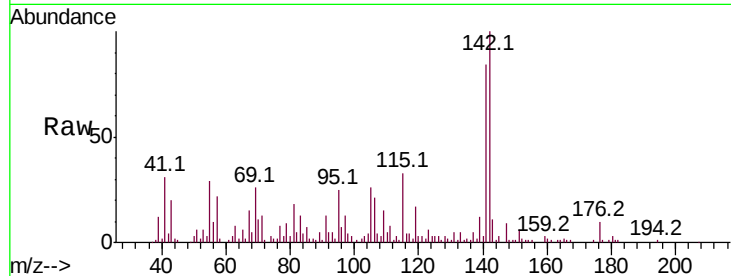
#37  
2-Methylnaphthalene  
Concen: 2.369 ng  
RT: 8.79 min Scan# 1140  
Delta R.T. -0.00 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-121118-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 84.4  | 70.6  | 105.8 |
| 115     | 33.3  | 27.0  | 40.6  |

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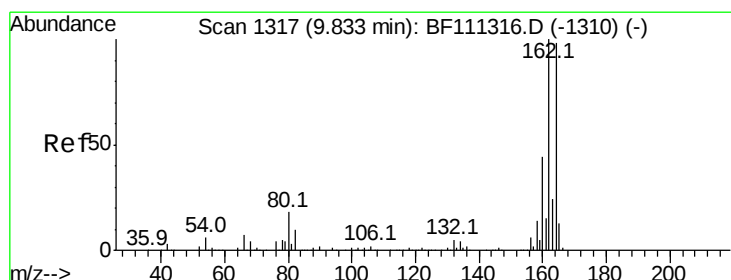
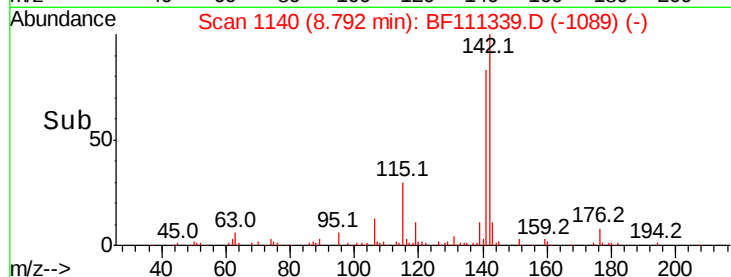
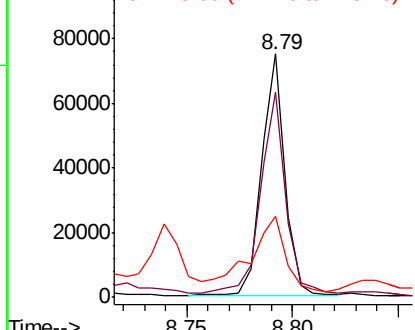


Abundance

Ion 142.00 (141.70 to 142.70): E

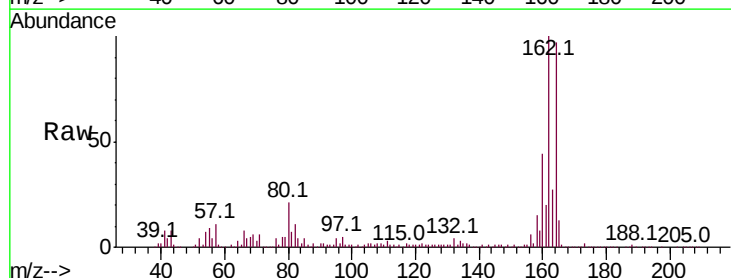
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.00 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.6 | 81.4  | 122.0 |
| 160     | 45.2  | 35.7  | 53.5  |

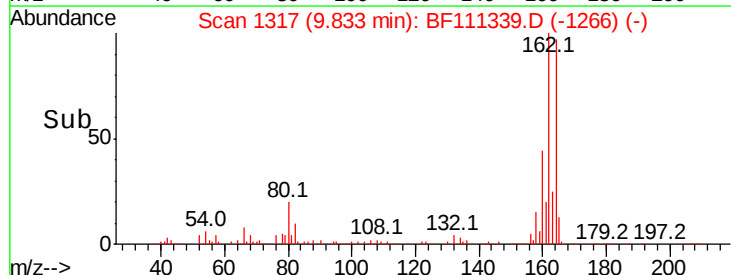
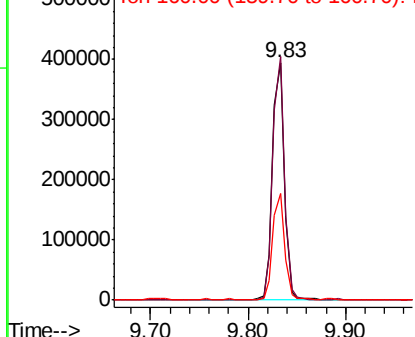


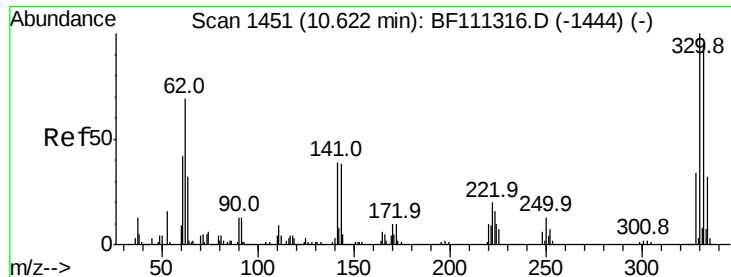
Abundance

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: 48.436 ng

RT: 10.62 min Scan# 1450

Delta R.T. -0.01 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

Instrument :

BNA\_F

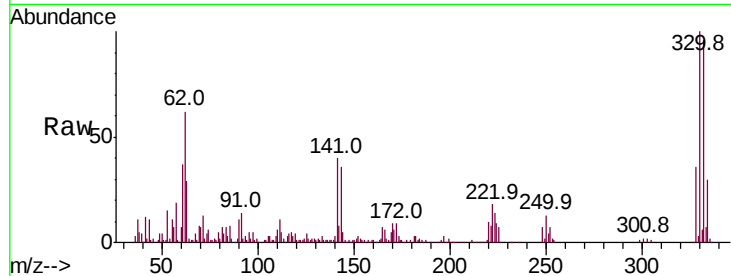
ClientSampleId :

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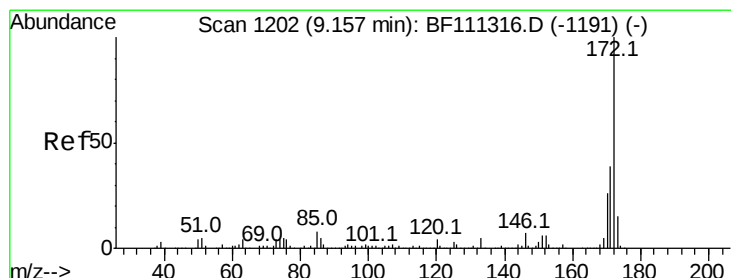
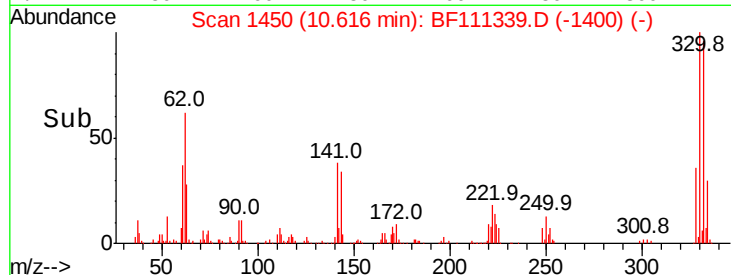
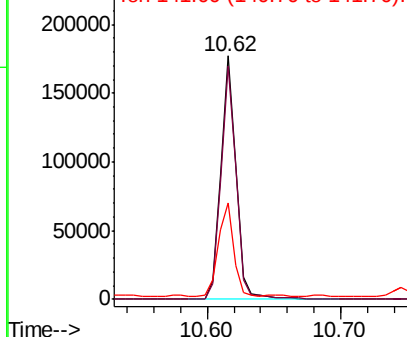
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 144588 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.4  | 76.0  | 114.0  |
| 141       | 38.1  | 31.0  | 46.6   |

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



#45

2-Fluorobiphenyl

Concen: 42.479 ng

RT: 9.15 min Scan# 1201

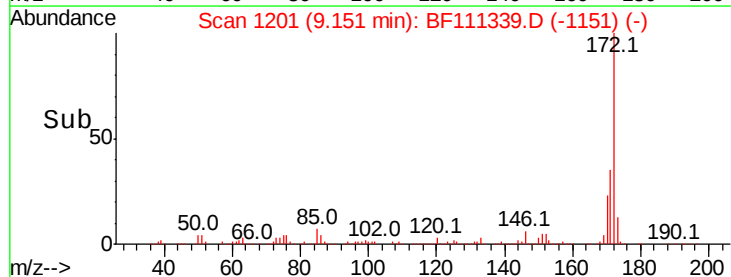
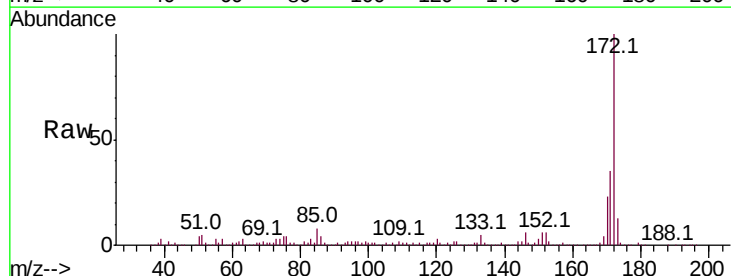
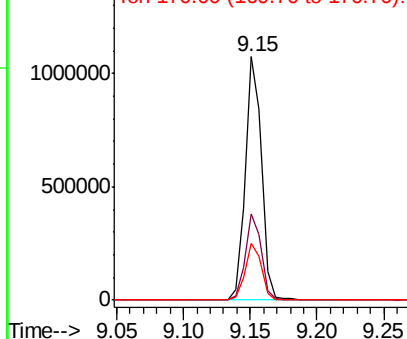
Delta R.T. -0.01 min

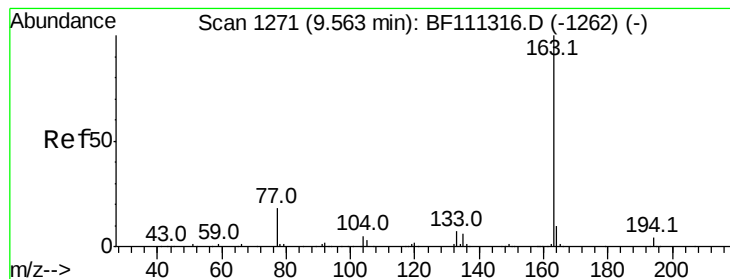
Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 895993 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.4  | 33.0  | 49.4   |
| 170       | 23.0  | 22.3  | 33.5   |

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: 2.570 ng

RT: 9.55 min Scan# 1268

Delta R.T. -0.02 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

Instrument :

BNA\_F

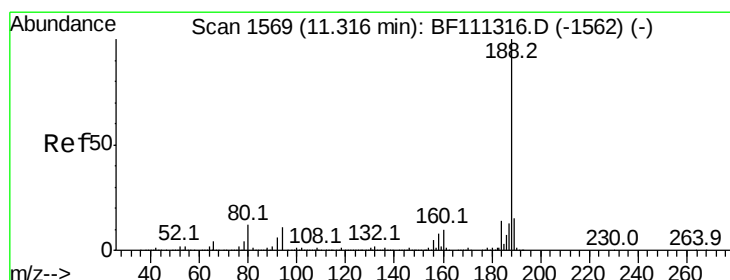
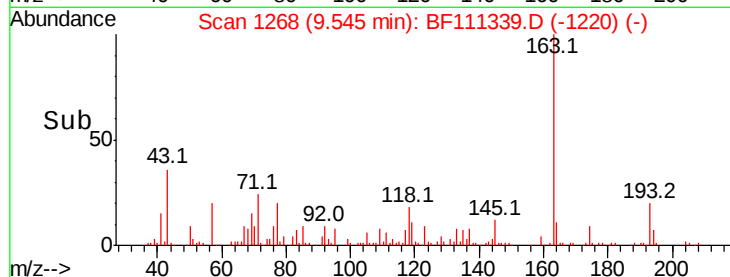
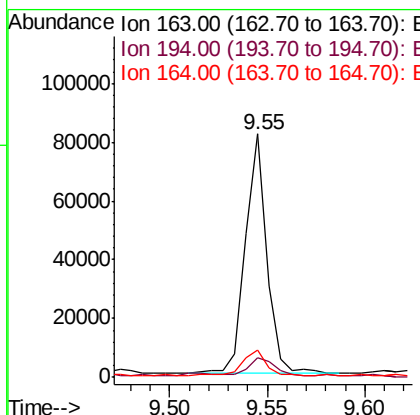
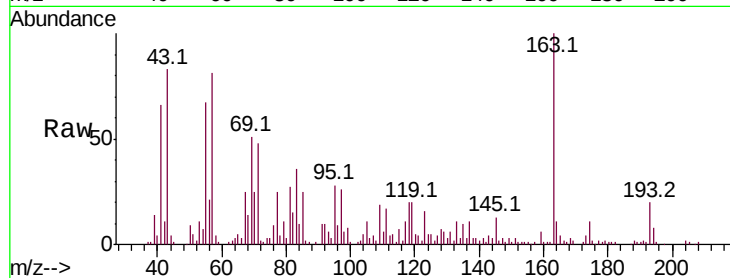
ClientSampleId :

HR-05-121118-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 62576 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 8.0   | 3.0   | 4.6#  |
| 164       | 11.1  | 8.9   | 13.3  |

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#64

Phenanthrene-d10

Concen: 20.000 ng

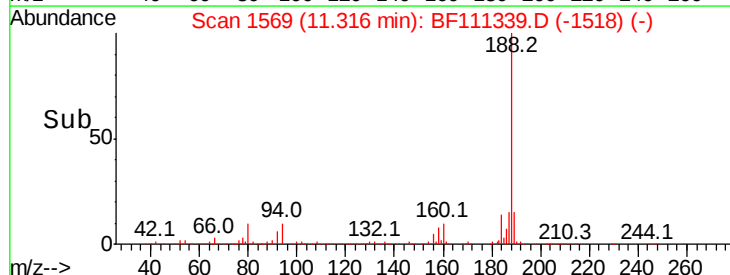
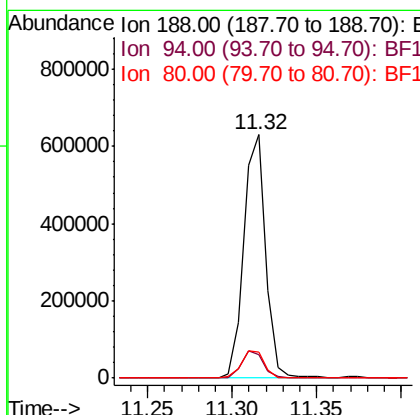
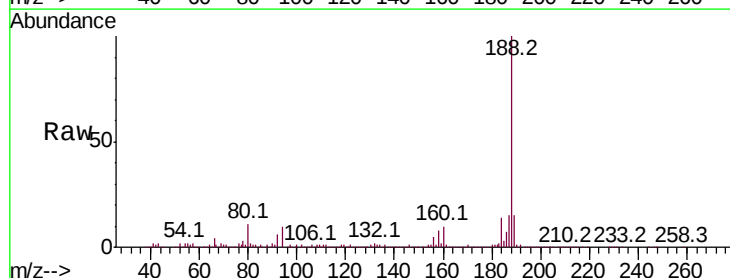
RT: 11.32 min Scan# 1569

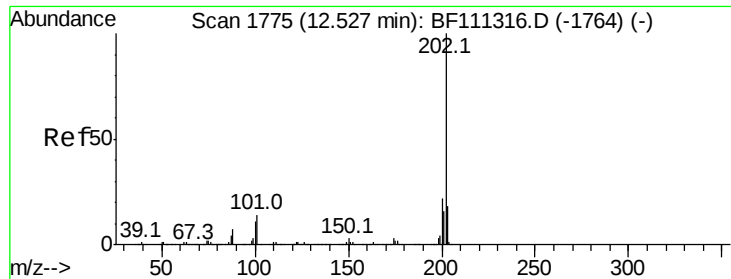
Delta R.T. -0.00 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 570680 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.9   | 9.6   | 14.4   |
| 80        | 10.6  | 9.8   | 14.6   |





#75

Fluoranthene

Concen: 7.235 ng

RT: 12.53 min Scan# 1775

Delta R.T. -0.00 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

Instrument :

BNA\_F

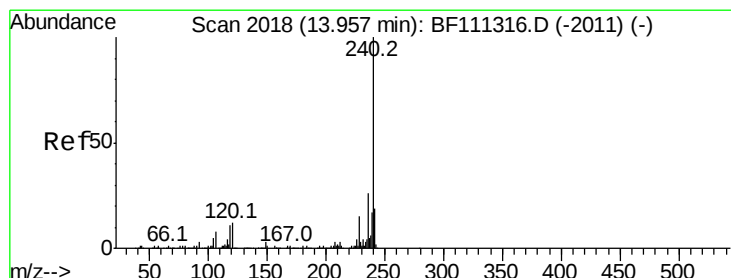
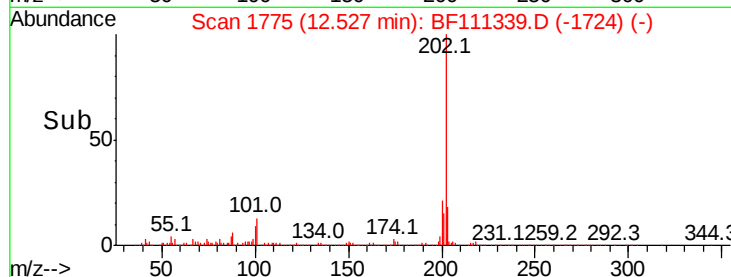
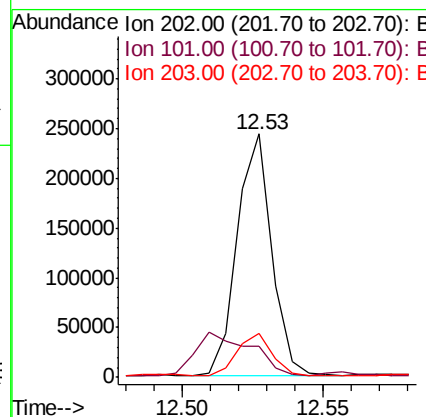
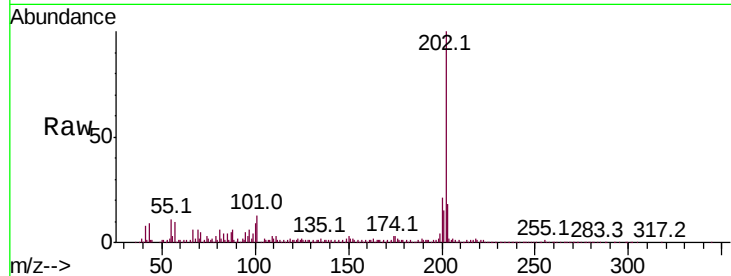
ClientSampleId :

HR-05-121118-B

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.9  | 0.0        | 33.8  |
| 203     | 18.1  | 0.0        | 38.6  |

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#76

Chrysene-d12

Concen: 20.000 ng

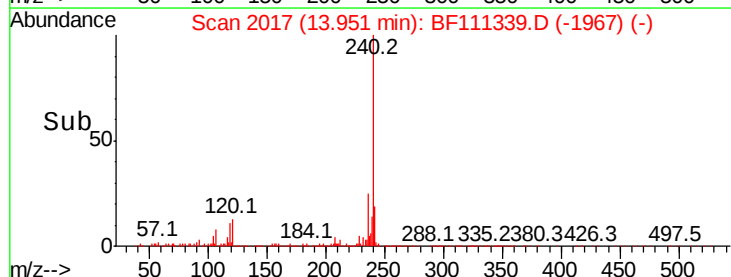
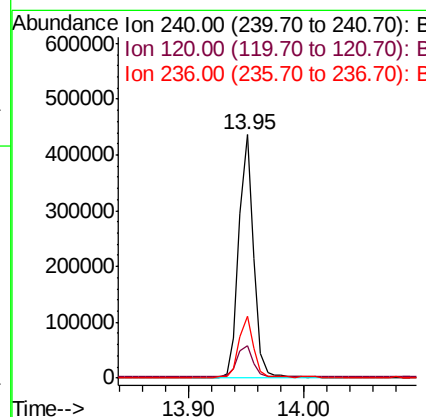
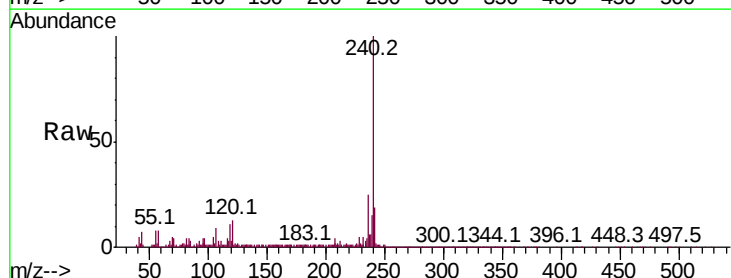
RT: 13.95 min Scan# 2017

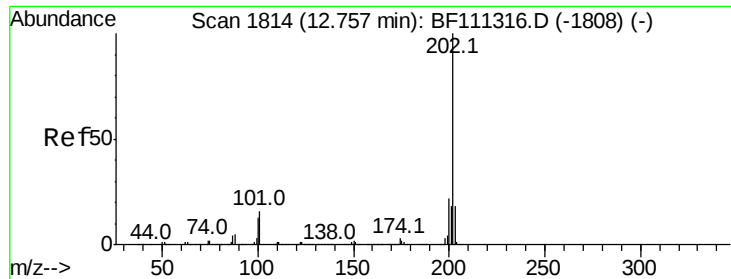
Delta R.T. -0.01 min

Lab File: BF111339.D

Acq: 12 Dec 2018 23:23

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 13.4  | 12.2       | 18.2  |
| 236     | 25.3  | 20.2       | 30.2  |





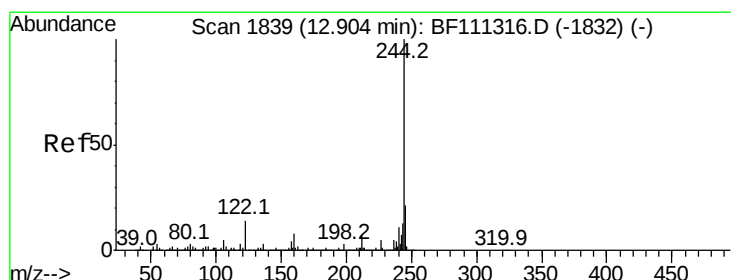
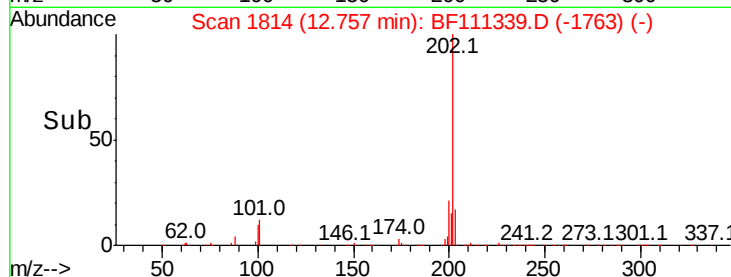
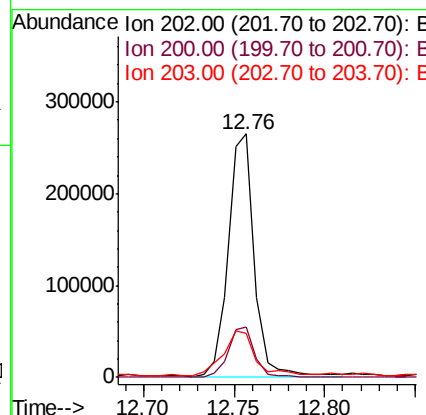
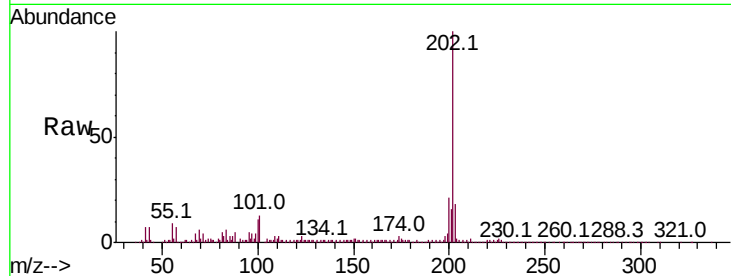
#78  
Pvrene  
Concen: 8.819 ng  
RT: 12.76 min Scan# 1814  
Delta R.T. -0.00 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-121118-B

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.8  | 19.0       | 28.4       |
| 203     | 18.0  | 15.2       | 22.8       |

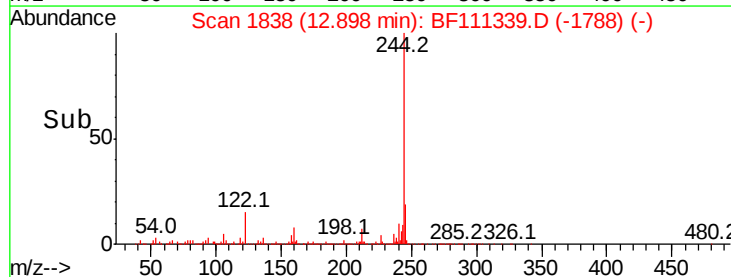
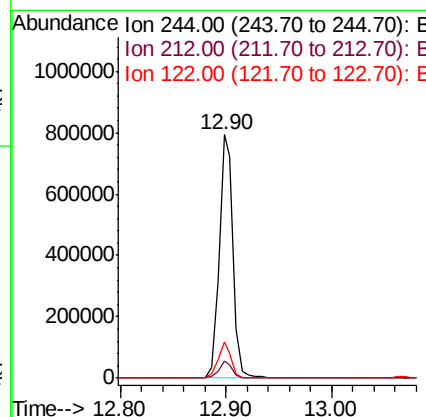
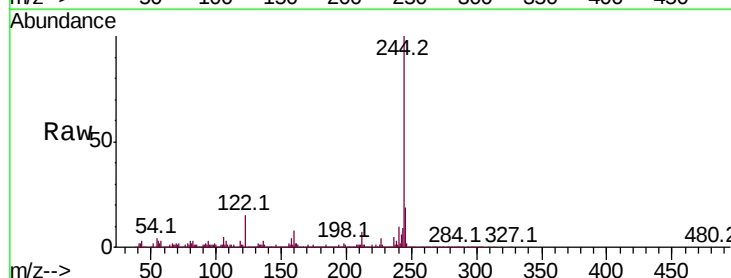
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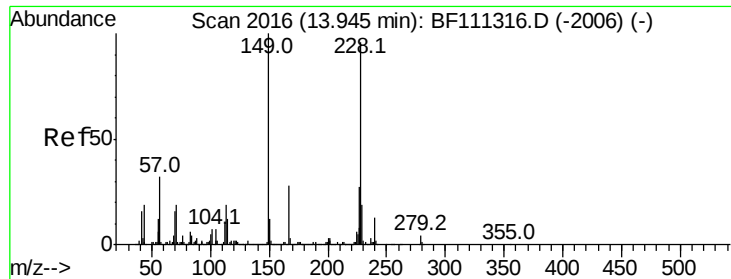
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#79  
Terphenyl-d14  
Concen: 41.891 ng  
RT: 12.90 min Scan# 1838  
Delta R.T. -0.01 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 6.9   | 5.7        | 8.5        |
| 122     | 15.0  | 13.1       | 19.7       |





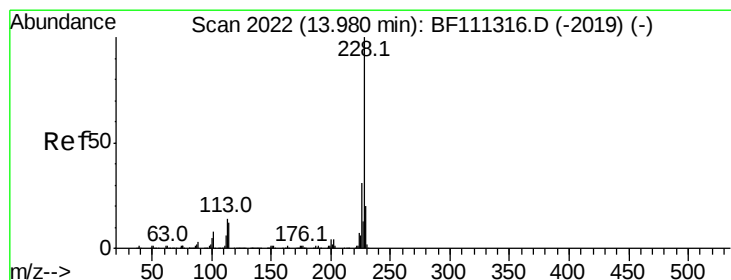
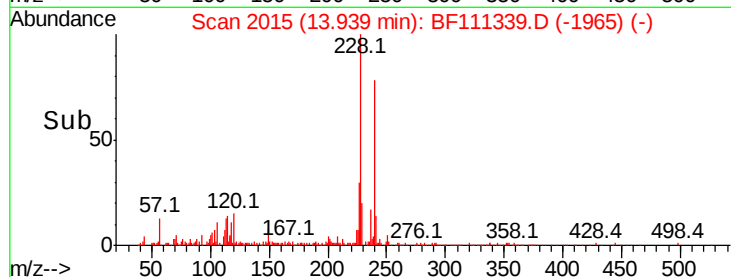
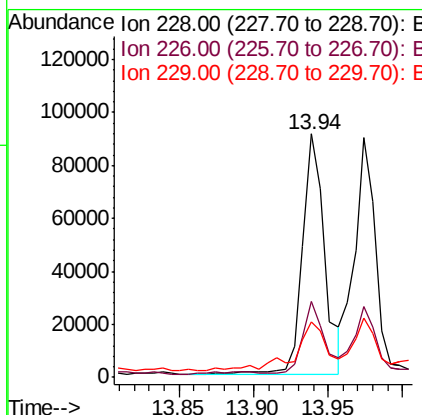
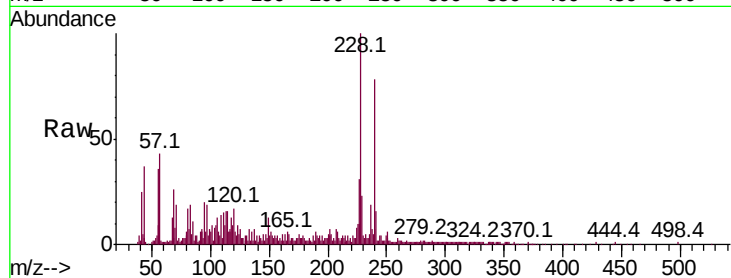
#81  
Benzo(a)anthracene  
Concen: 4.406 ng  
RT: 13.94 min Scan# 2015  
Delta R.T. -0.01 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-121118-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 22.6  | 34.0  |
| 229     | 22.7  | 16.3  | 24.5  |

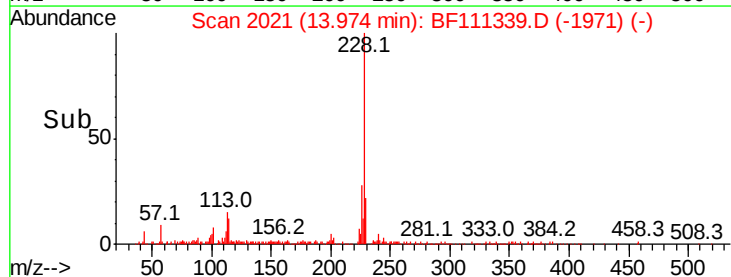
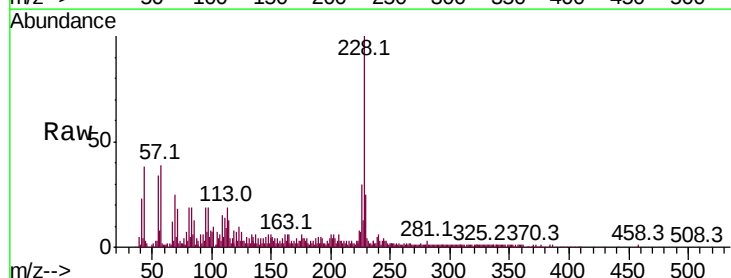
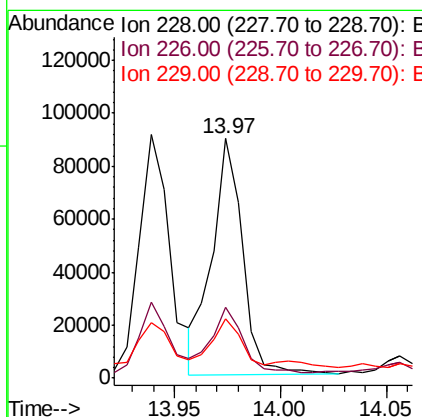
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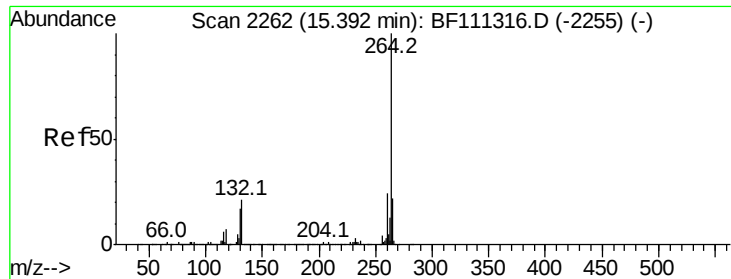
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#83  
Chrysene  
Concen: 4.085 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. -0.01 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 25.3  | 37.9  |
| 229     | 24.6  | 17.2  | 25.8  |





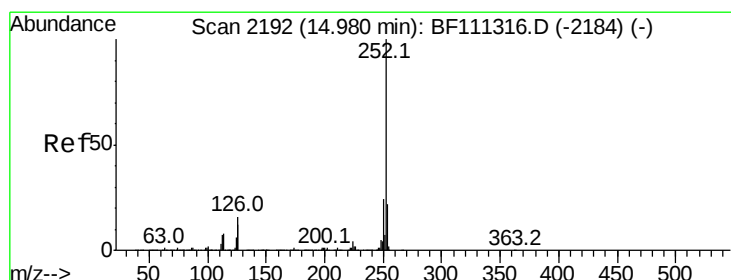
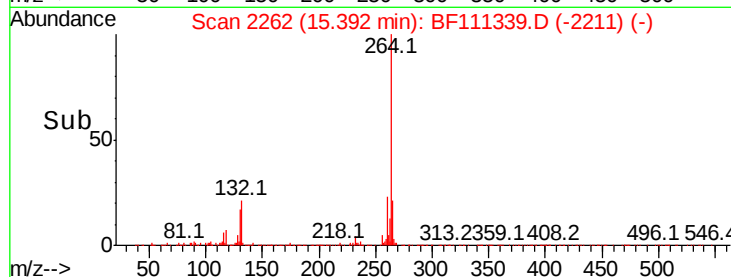
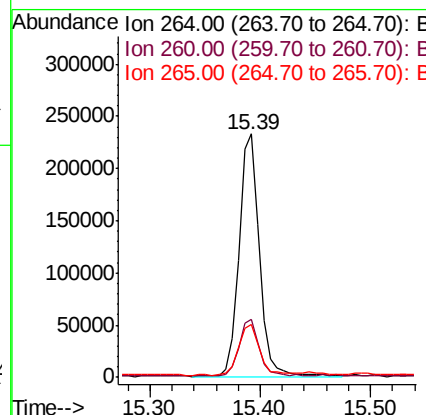
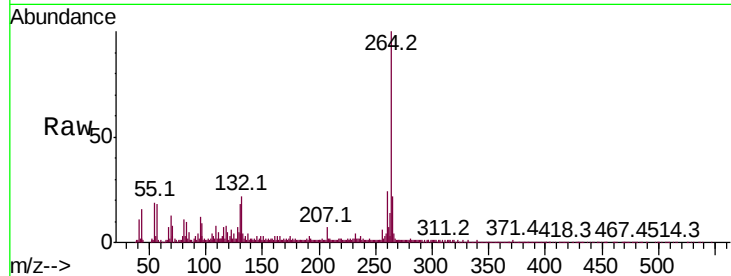
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.39 min Scan# 2262  
Delta R.T. -0.00 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-121118-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 18.3  | 27.5  |
| 265     | 21.9  | 17.7  | 26.5  |

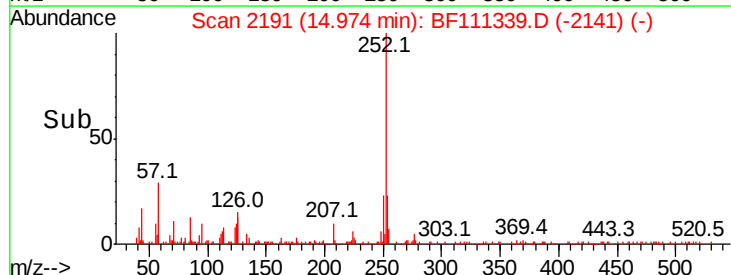
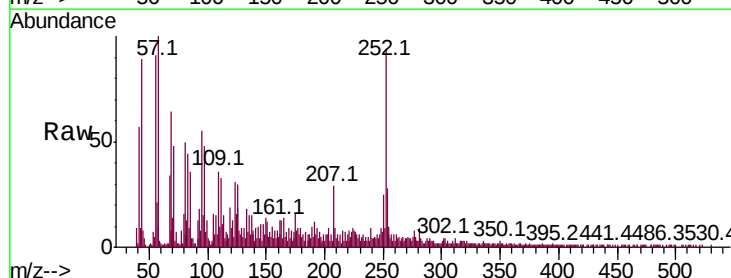
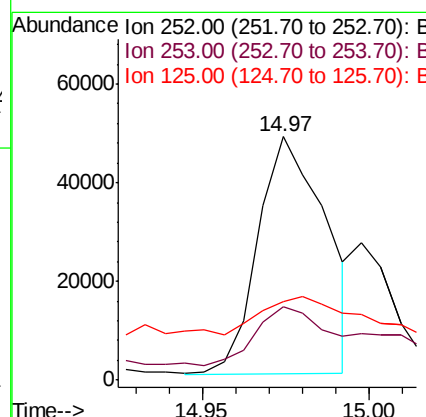
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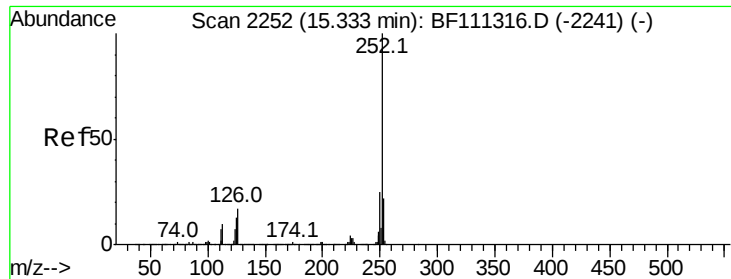
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#88  
Benzo(b)fluoranthene  
Concen: 3.976 ng m  
RT: 14.97 min Scan# 2191  
Delta R.T. -0.01 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.1  | 18.2  | 27.2# |
| 125     | 32.2  | 10.4  | 15.6# |





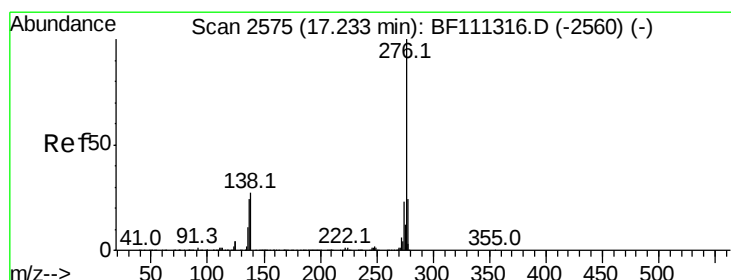
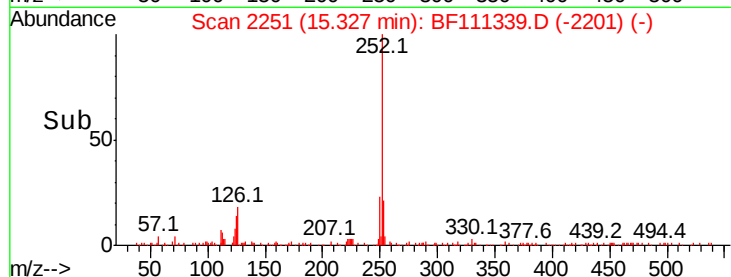
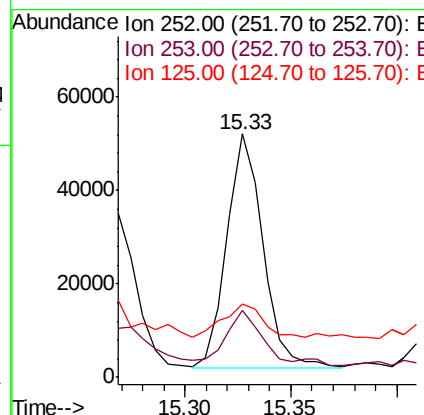
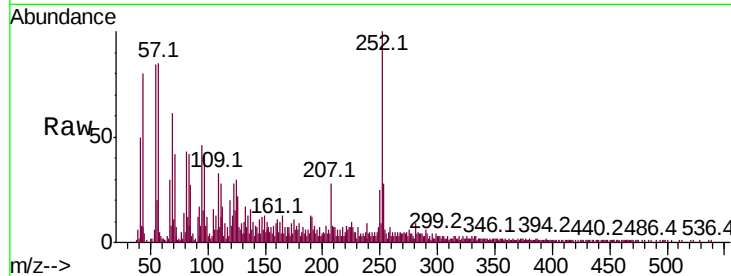
#90  
Benzo(a)pyrene  
Concen: 3.751 ng  
RT: 15.33 min Scan# 2251  
Delta R.T. -0.01 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-121118-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.7  | 17.8  | 26.8  |
| 125     | 30.4  | 12.3  | 18.5  |

Manual Integrations  
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#92  
Benzo(g,h,i)perylene  
Concen: 2.012 ng  
RT: 17.23 min Scan# 2575  
Delta R.T. -0.00 min  
Lab File: BF111339.D  
Acq: 12 Dec 2018 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.6  | 19.2  | 28.8  |
| 138     | 37.2  | 24.9  | 37.3  |

