

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112018\  
 Data File : BF110902.D  
 Acq On : 20 Nov 2018 18:50  
 Operator : JU/SJ  
 Sample : J5763-03 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-111918-B

Manual Integrations  
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 11/21/2018 3:18:03 PM

Quant Time: Nov 21 04:43:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 12:43:10 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.94  | 152  | 64615    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.22  | 136  | 264382   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.98  | 164  | 108021   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.48 | 188  | 165817   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.13 | 240  | 136110   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.67 | 264  | 91515    | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.56  | 112  | 234180   | 58.87 | ng    | 0.00     |
| 7) Phenol-d6                | 6.56  | 99   | 296889   | 58.36 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.50  | 82   | 185060   | 40.31 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.78 | 330  | 50715    | 46.59 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.29  | 172  | 303008   | 40.06 | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.06 | 244  | 221924   | 30.53 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 10) Phenol                  | 6.58  | 94   | 14495    | 2.457 | ng    | 85       |
| 50) Dimethylphthalate       | 9.69  | 163  | 28479    | 3.533 | ng    | 99       |
| 71) Phenanthrene            | 11.50 | 178  | 35676    | 4.016 | ng    | 98       |
| 75) Fluoranthene            | 12.70 | 202  | 43518    | 4.886 | ng    | 98       |
| 78) Pyrene                  | 12.94 | 202  | 38846    | 3.707 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.12 | 228  | 17693    | 2.175 | ng    | # 91     |
| 88) Benzo(b)fluoranthene    | 15.22 | 252  | 12136m   | 2.217 | ng    |          |

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

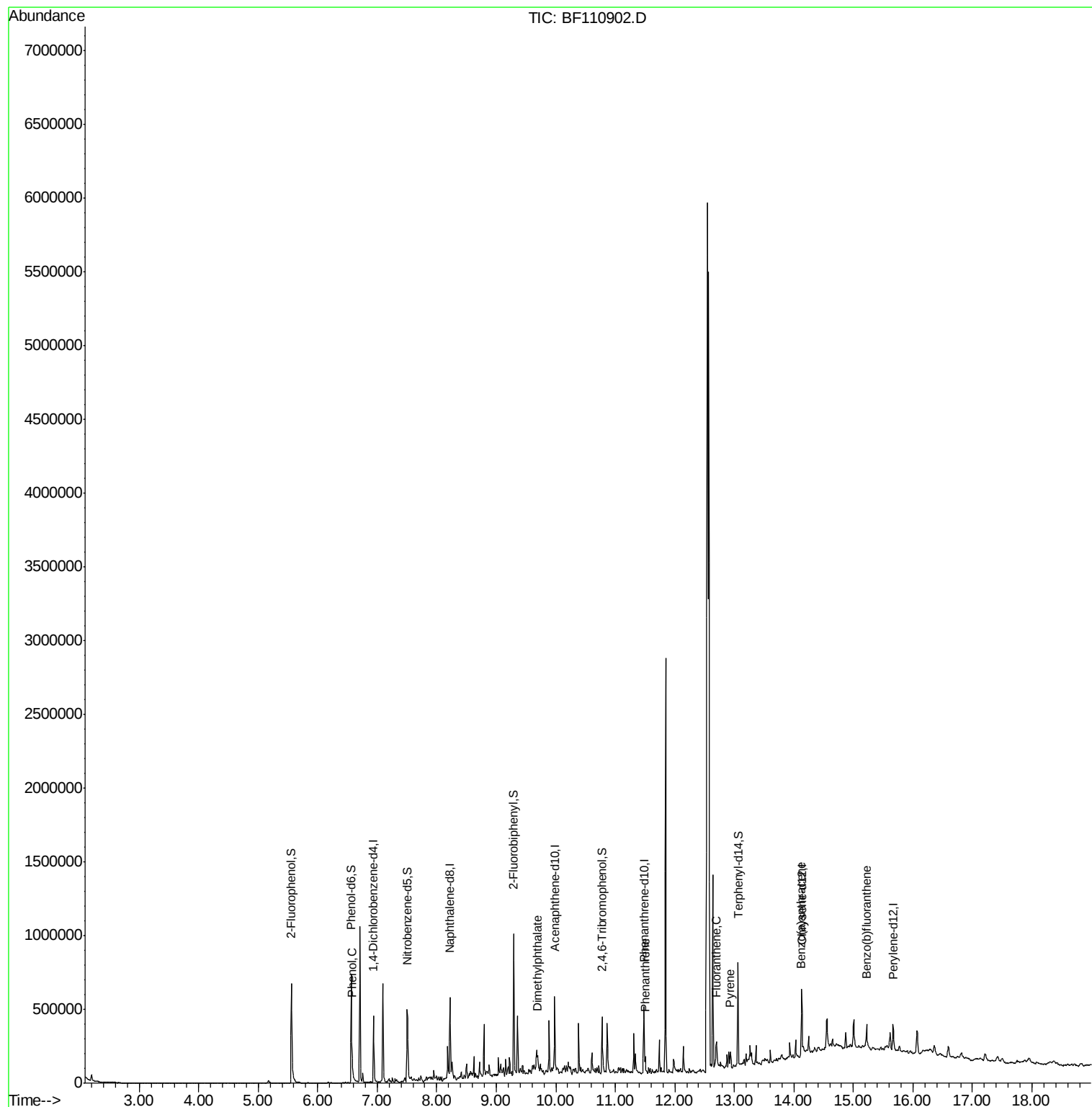
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112018\  
Data File : BF110902.D  
Acq On : 20 Nov 2018 18:50  
Operator : JU/SJ  
Sample : J5763-03 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

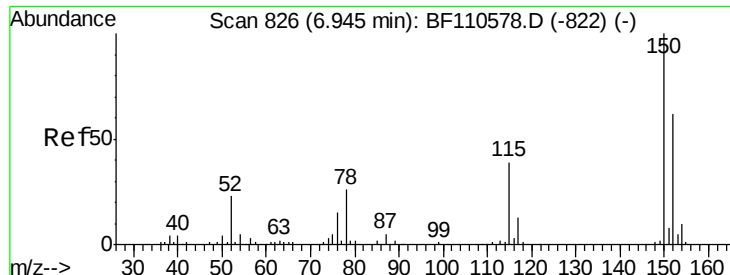
Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-111918-B

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Quant Time: Nov 21 04:43:22 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 13 12:43:10 2018  
Response via : Initial Calibration





#1

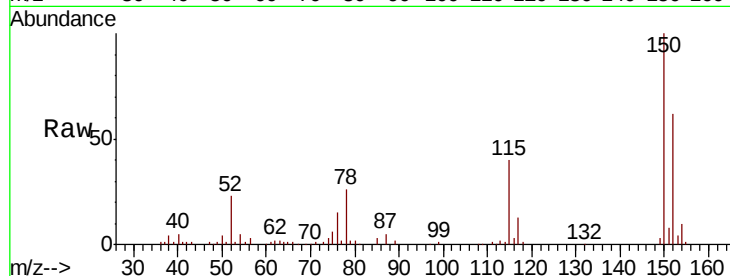
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.94 min Scan# 825  
 Delta R.T. -0.01 min  
 Lab File: BF110902.D  
 Acq: 20 Nov 2018 18:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-111918-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.3 | 122.7 | 184.1 |
| 115     | 64.8  | 49.1  | 73.7  |

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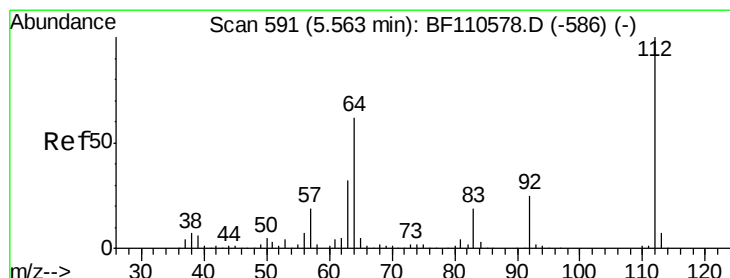
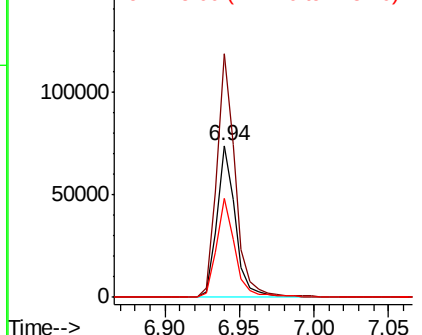
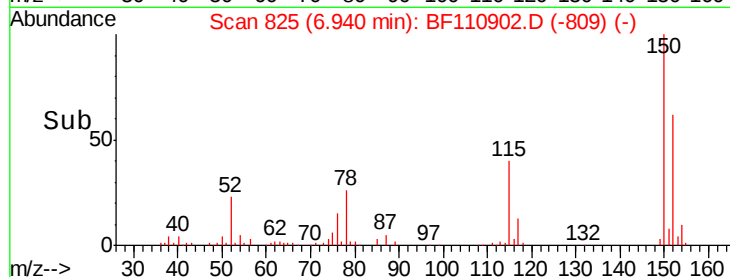


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

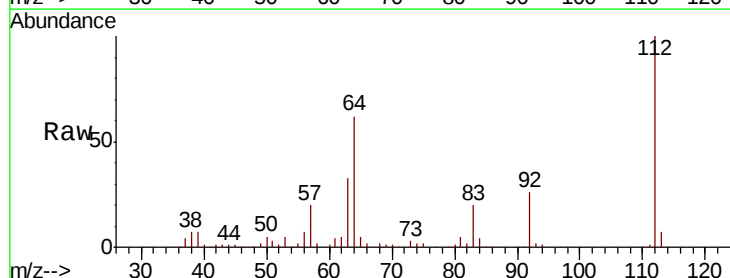
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 58.869 ng  
 RT: 5.56 min Scan# 590  
 Delta R.T. -0.01 min  
 Lab File: BF110902.D  
 Acq: 20 Nov 2018 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.8  | 44.1  | 66.1  |
| 63      | 33.1  | 23.7  | 35.5  |

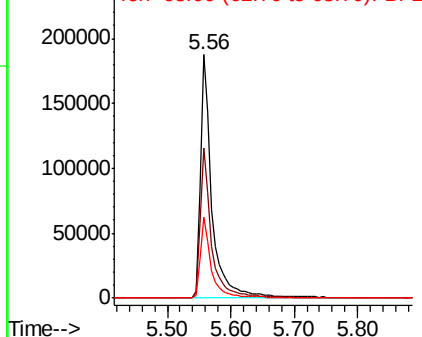
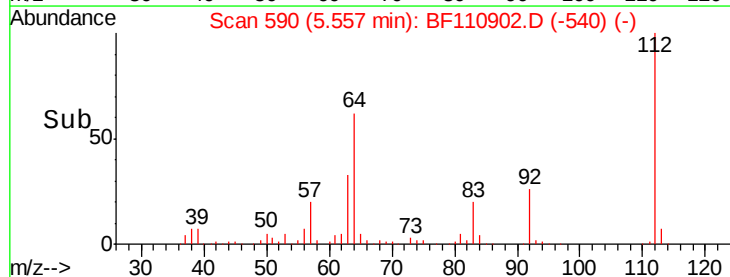


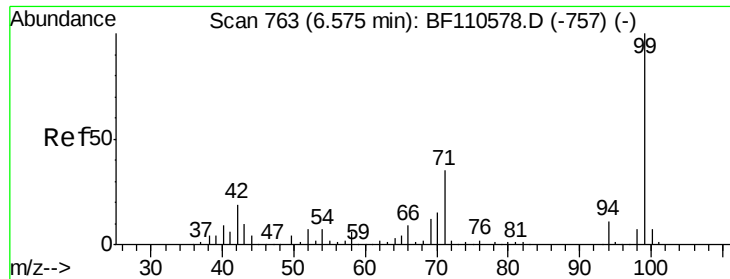
Abundance

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: 58.364 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110902.D

Acq: 20 Nov 2018 18:50

Instrument :

BNA\_F

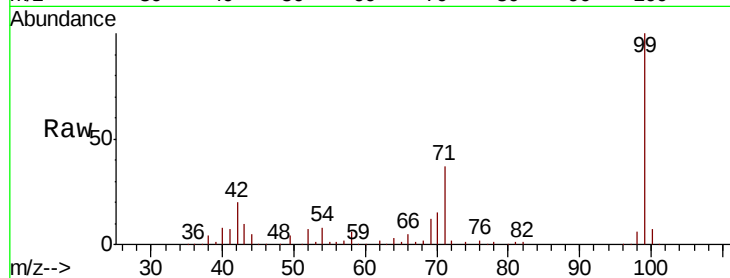
ClientSampleId :

HR-06-111918-B

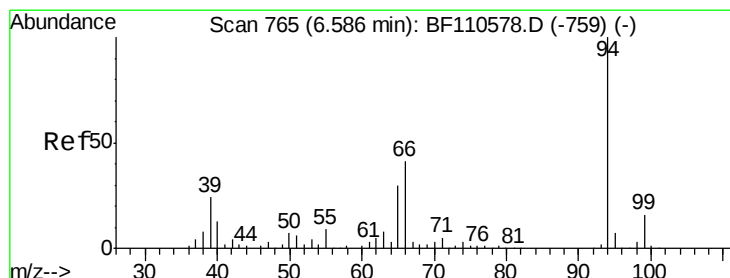
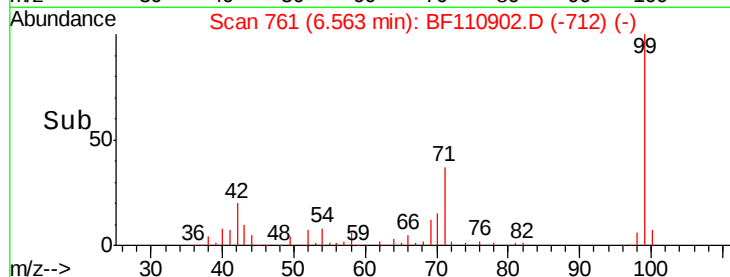
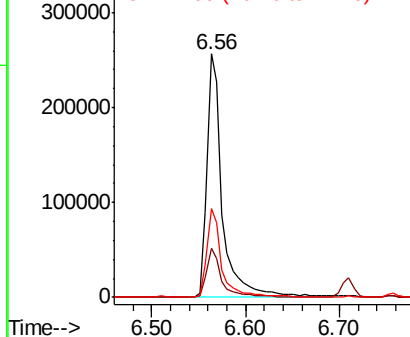
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 296889 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 20.2  | 15.8  | 23.6   |
| 71       | 36.6  | 28.0  | 42.0   |

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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: 2.457 ng

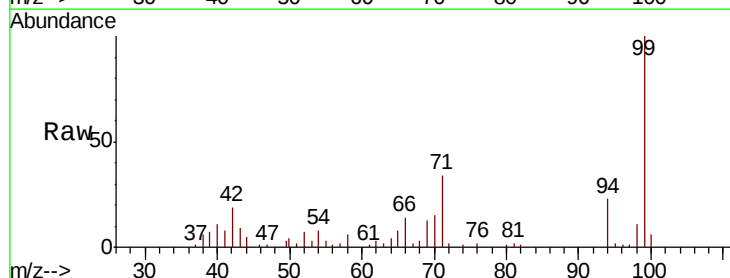
RT: 6.58 min Scan# 764

Delta R.T. -0.01 min

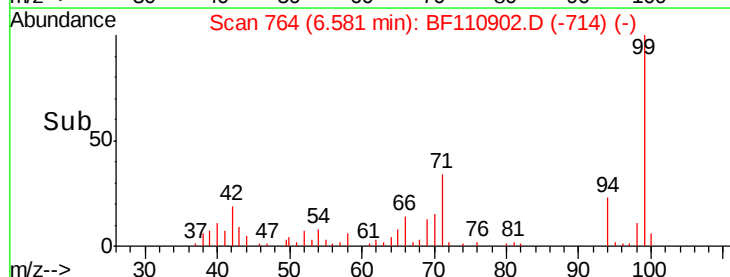
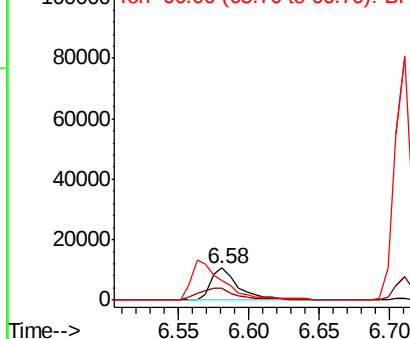
Lab File: BF110902.D

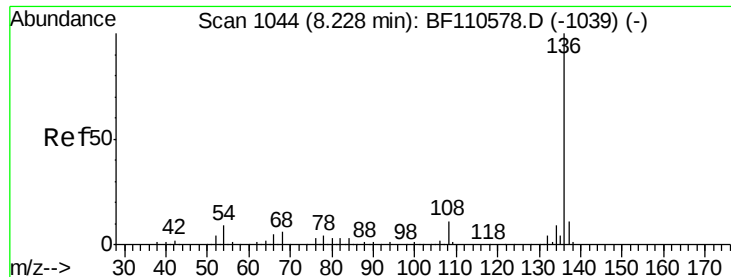
Acq: 20 Nov 2018 18:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 14495 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 36.0  | 25.3  | 65.3  |
| 66       | 61.2  | 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





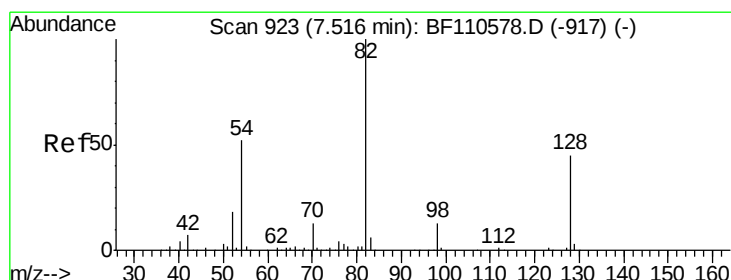
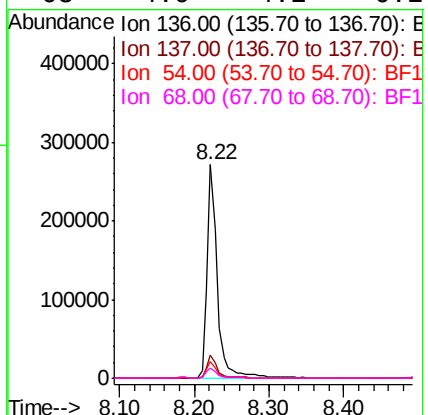
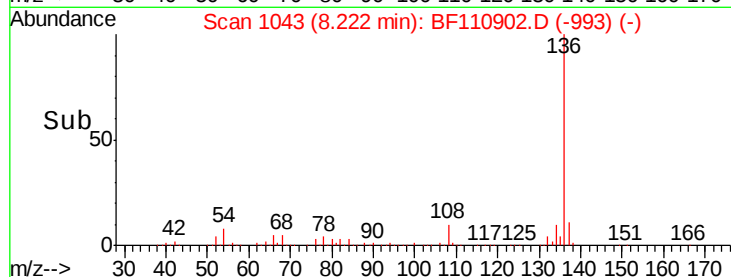
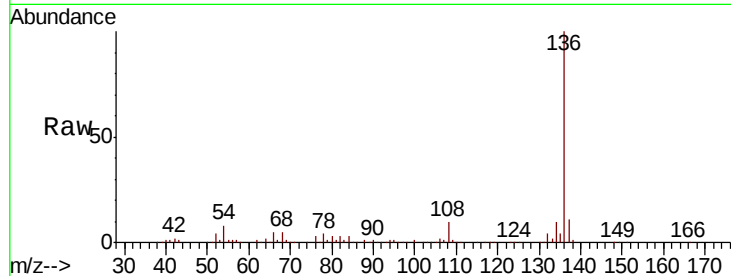
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.22 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-111918-B

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 264382 |       |       |
| 137     | 10.6 |       | 8.8    | 13.2  |       |
| 54      | 7.9  |       | 5.4    | 8.2   |       |
| 68      | 4.9  |       | 4.2    | 6.2   |       |

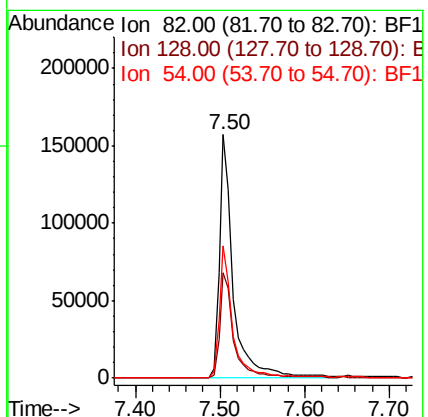
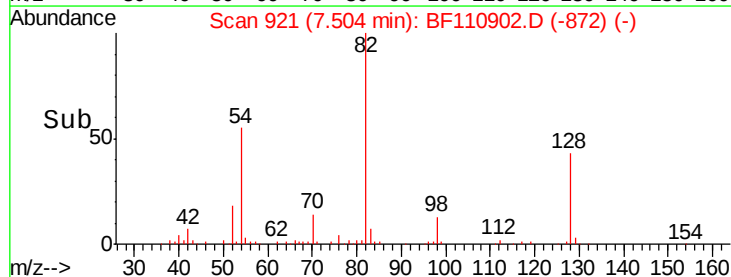
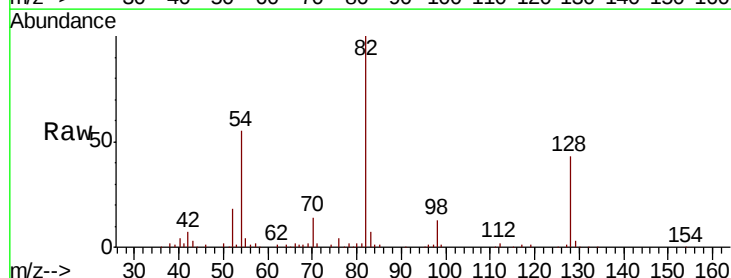
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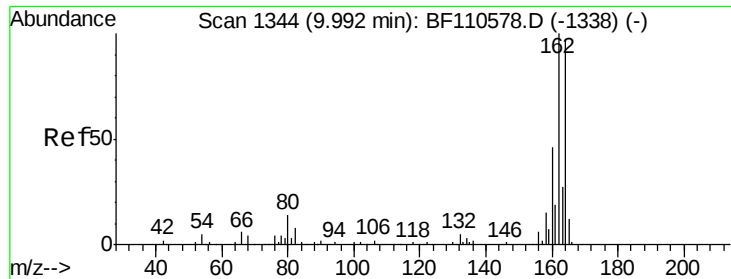
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#23  
Nitrobenzene-d5  
Concen: 40.311 ng  
RT: 7.50 min Scan# 921  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 185060 |       |       |
| 128     | 43.4 |       | 34.2   | 51.2  |       |
| 54      | 54.6 |       | 38.6   | 58.0  |       |





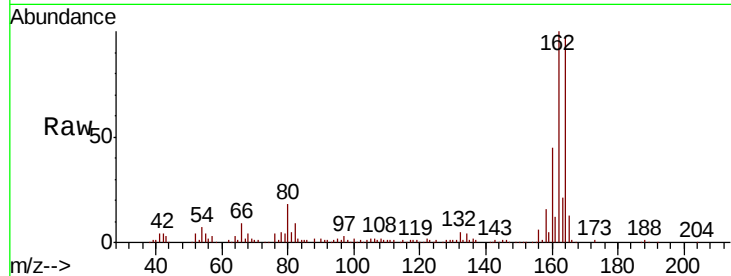
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.98 min Scan# 1342  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-111918-B

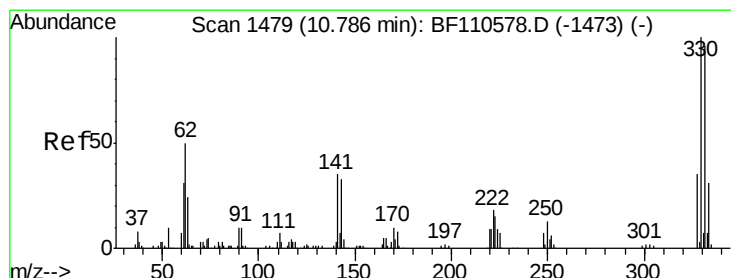
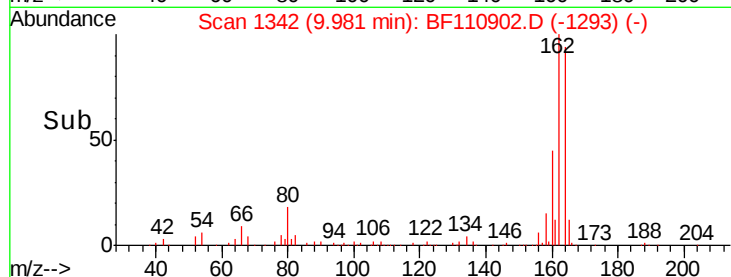
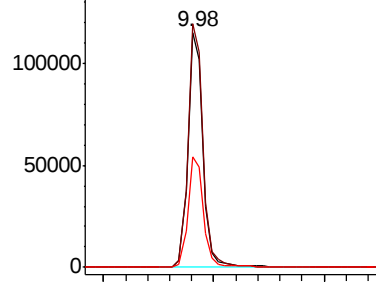
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 108021 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 103.6 | 83.0  | 124.6  |
| 160       | 46.9  | 37.0  | 55.6   |

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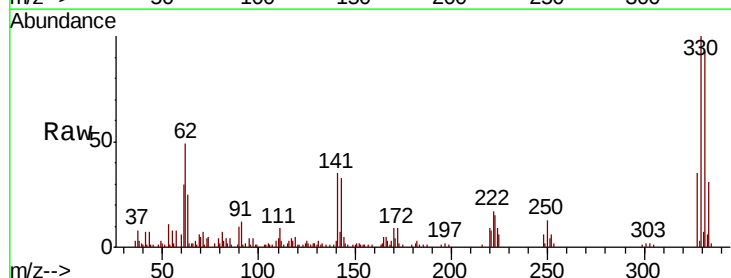


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

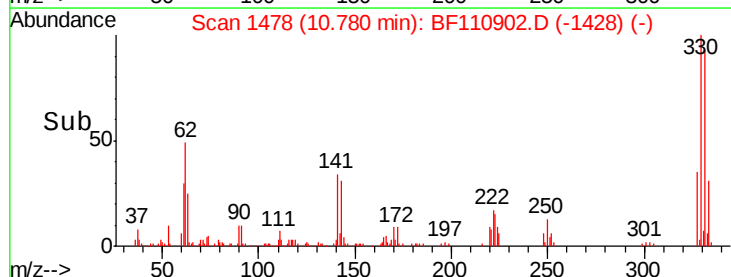
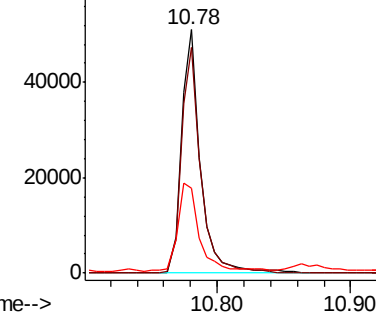


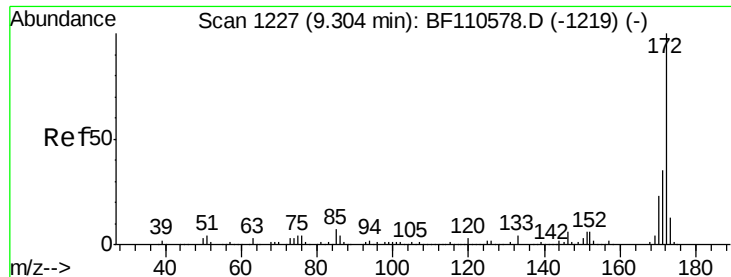
#42  
2,4,6-Tribromophenol  
Concen: 46.594 ng  
RT: 10.78 min Scan# 1478  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 50715 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 94.4  | 77.1  | 115.7 |
| 141       | 39.4  | 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





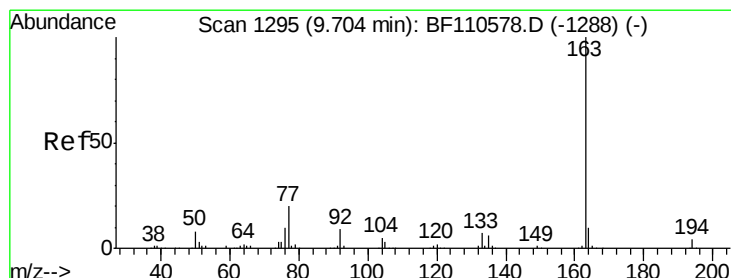
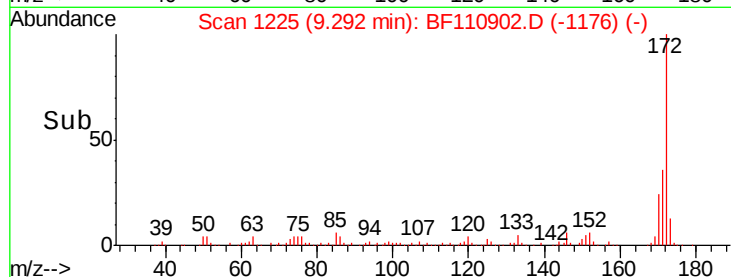
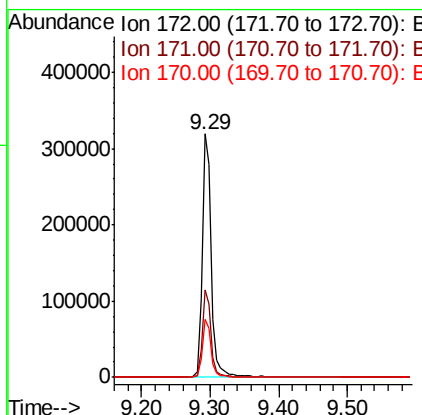
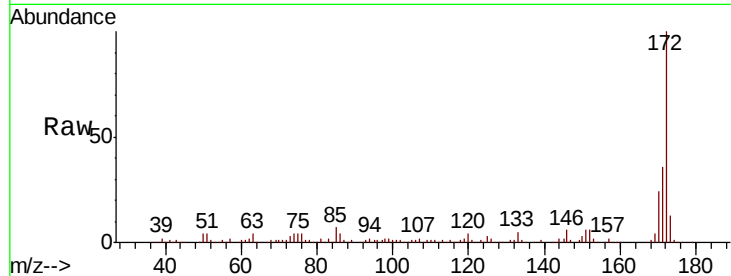
#45  
2-Fluorobiphenyl  
Concen: 40.062 ng  
RT: 9.29 min Scan# 1225  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-111918-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 28.6  | 43.0  |
| 170     | 23.6  | 19.7  | 29.5  |

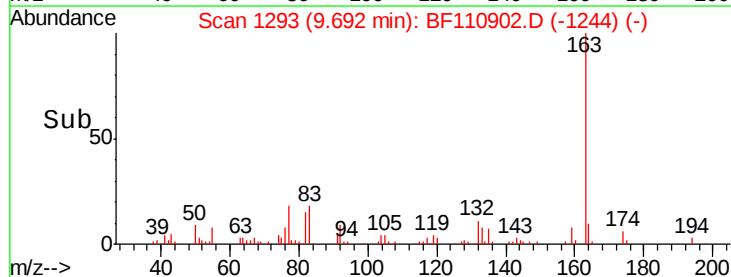
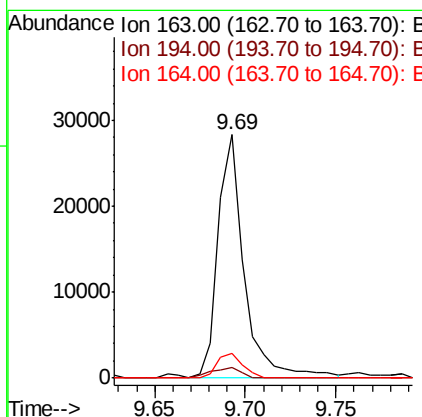
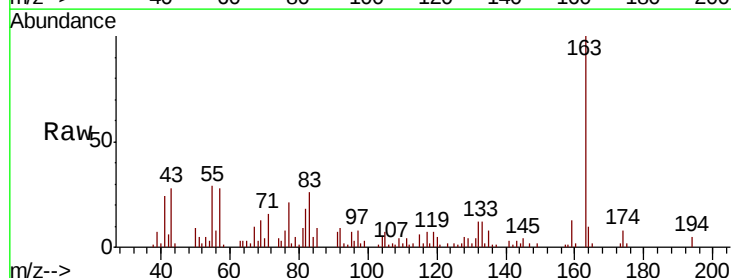
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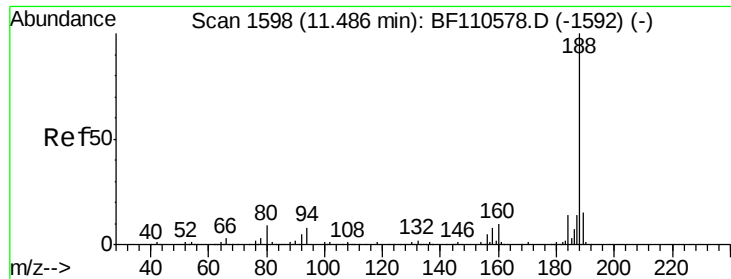
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#50  
Dimethylphthalate  
Concen: 3.533 ng  
RT: 9.69 min Scan# 1293  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.6   | 3.2   | 4.8   |
| 164     | 10.1  | 8.1   | 12.1  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF110902.D

Acq: 20 Nov 2018 18:50

Instrument :

BNA\_F

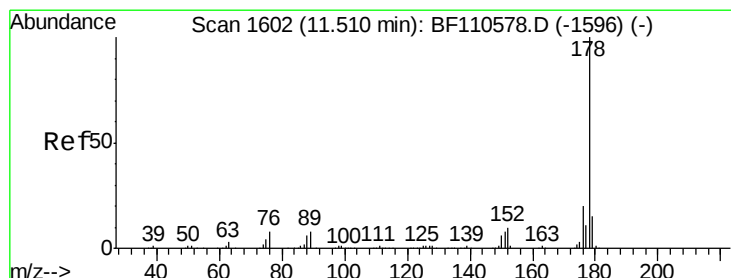
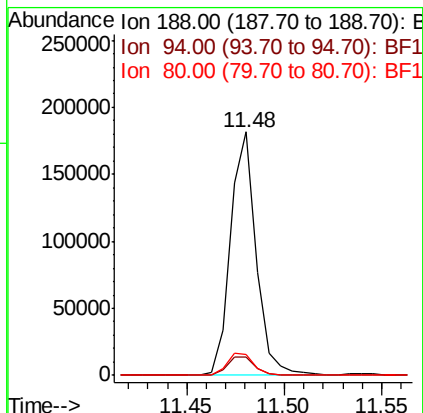
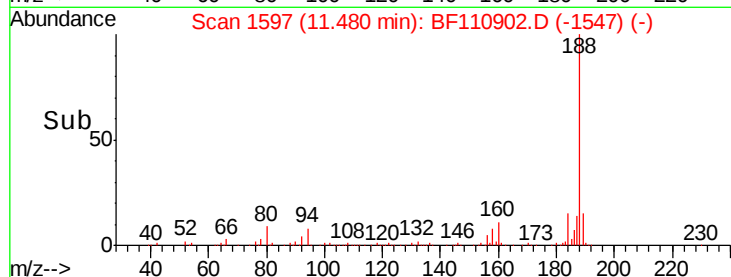
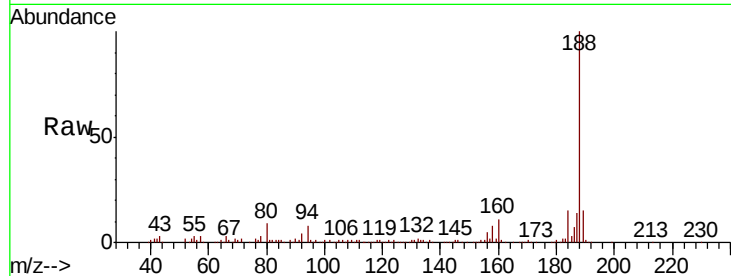
ClientSampleId :

HR-06-111918-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 165817 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 7.7   | 7.2   | 10.8   |
| 80        | 8.7   | 7.9   | 11.9   |

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#71

Phenanthrene

Concen: 4.016 ng

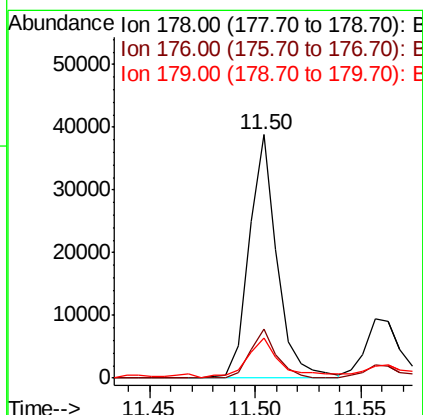
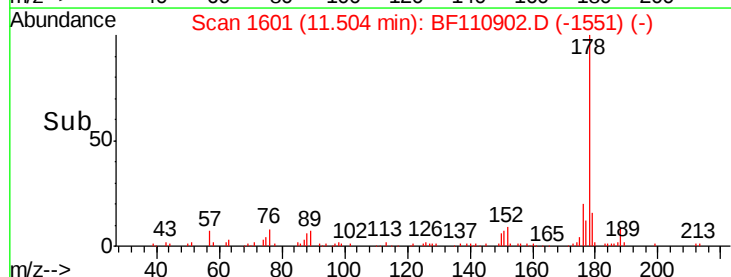
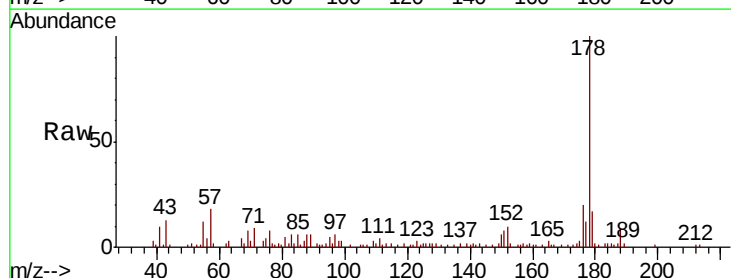
RT: 11.50 min Scan# 1601

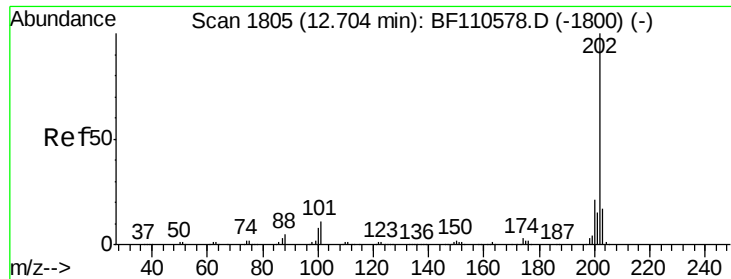
Delta R.T. -0.01 min

Lab File: BF110902.D

Acq: 20 Nov 2018 18:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 35676 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.0  | 15.5  | 23.3  |
| 179       | 16.6  | 12.5  | 18.7  |





#75

Fluoranthene

Concen: 4.886 ng

RT: 12.70 min Scan# 1805

Delta R.T. 0.00 min

Lab File: BF110902.D

Acq: 20 Nov 2018 18:50

Instrument :

BNA\_F

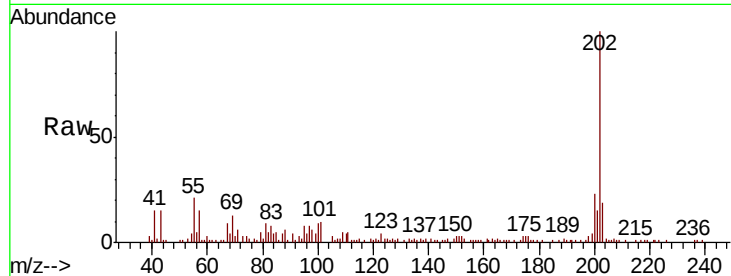
ClientSampleId :

HR-06-111918-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 43518 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.3  | 0.0   | 31.4  |
| 203       | 18.7  | 0.0   | 37.7  |

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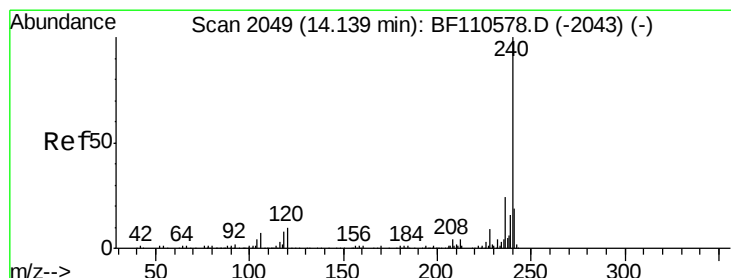
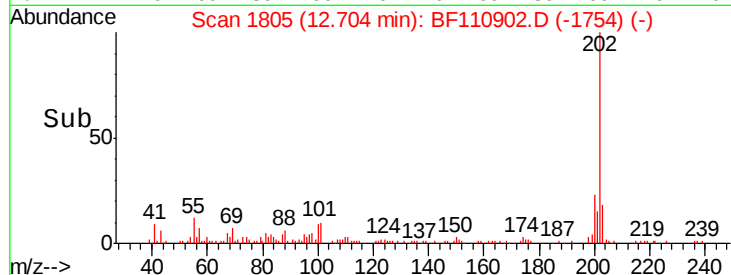
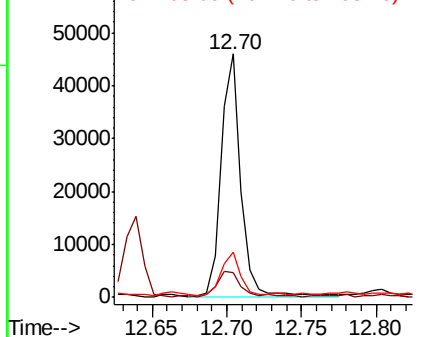


Abundance

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

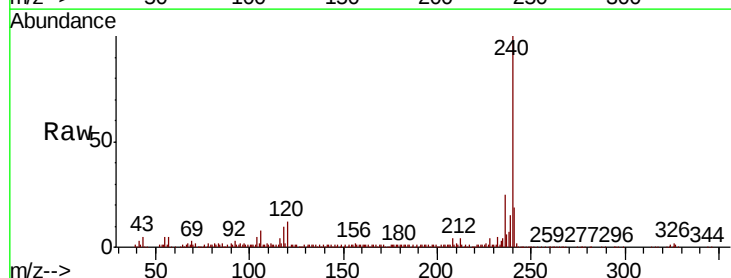
RT: 14.13 min Scan# 2048

Delta R.T. -0.01 min

Lab File: BF110902.D

Acq: 20 Nov 2018 18:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 136110 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.6  | 8.3   | 12.5   |
| 236       | 24.9  | 21.2  | 31.8   |

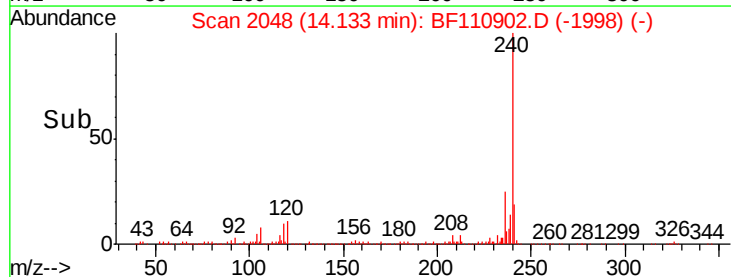
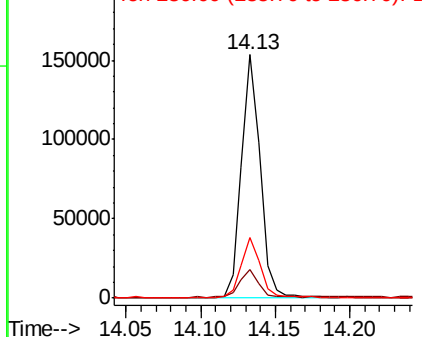


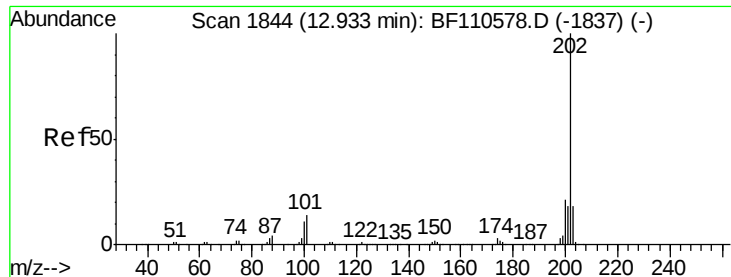
Abundance

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





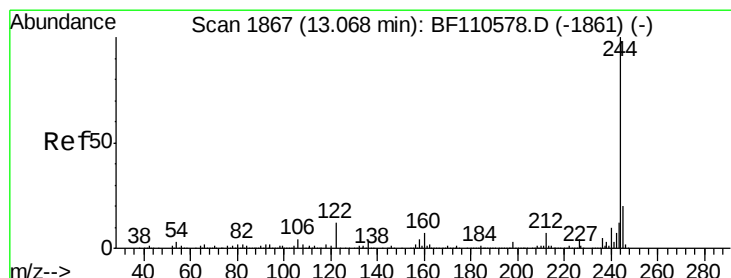
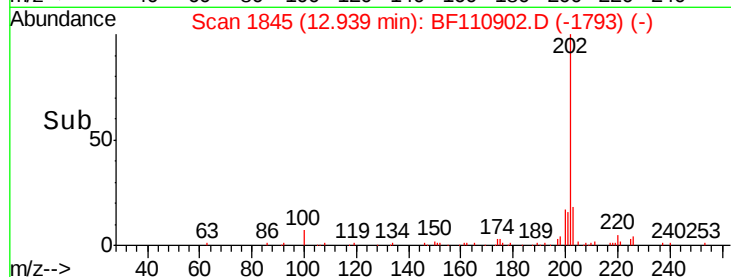
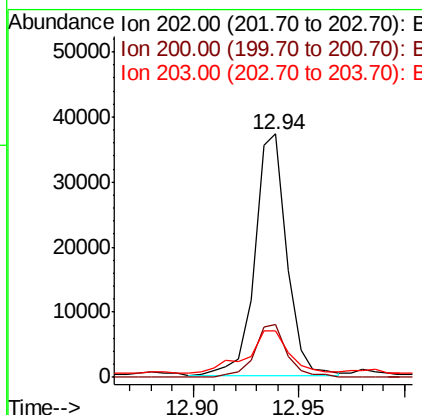
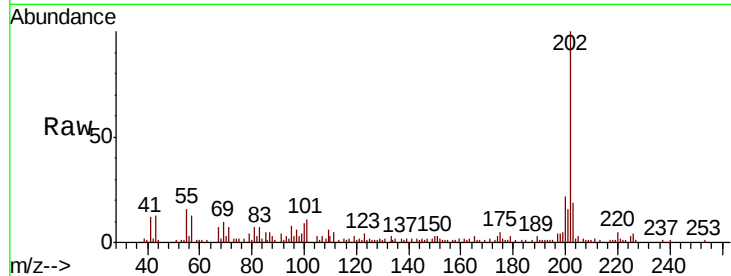
#78  
Pvrene  
Concen: 3.707 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. 0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-111918-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 17.8  | 26.6  |
| 203     | 19.0  | 14.2  | 21.4  |

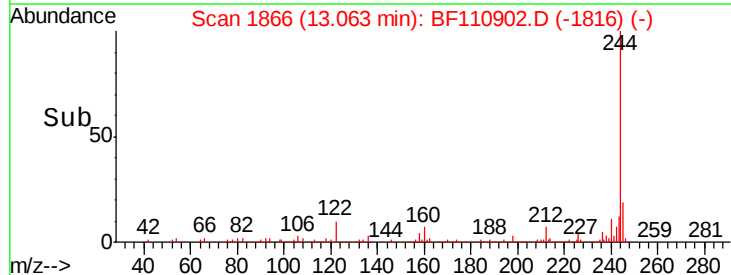
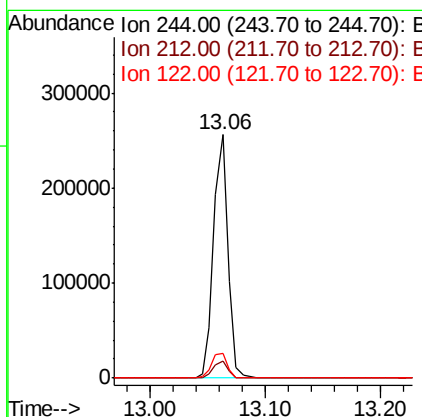
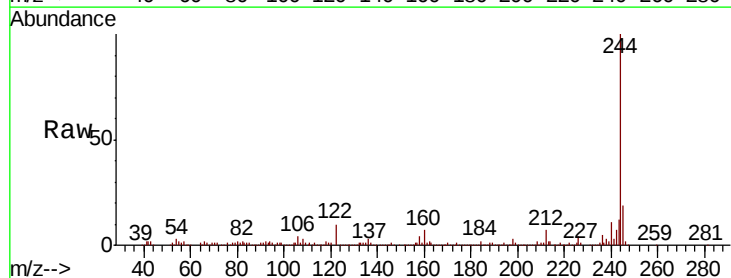
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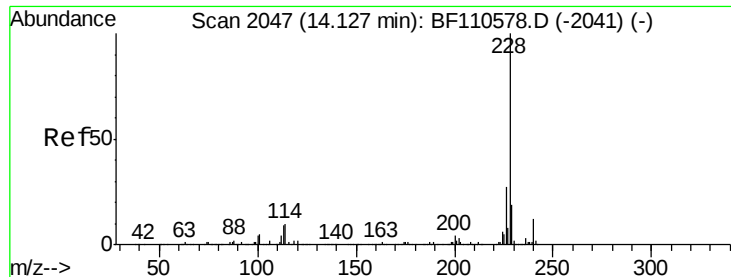
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#79  
Terphenyl-d14  
Concen: 30.535 ng  
RT: 13.06 min Scan# 1866  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 5.8   | 8.8   |
| 122     | 10.3  | 8.7   | 13.1  |





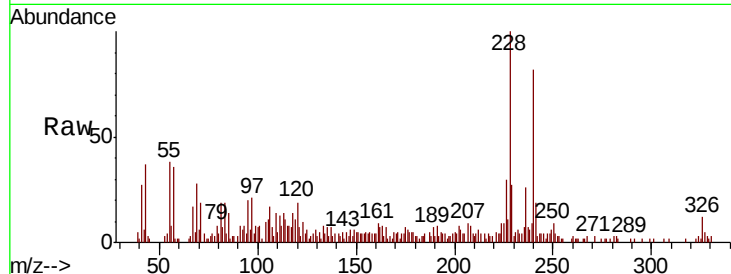
#81  
Benzo(a)anthracene  
Concen: 2.175 ng  
RT: 14.12 min Scan# 2046  
Delta R.T. -0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-111918-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 22.1  | 33.1  |
| 229     | 26.6  | 15.6  | 23.4  |

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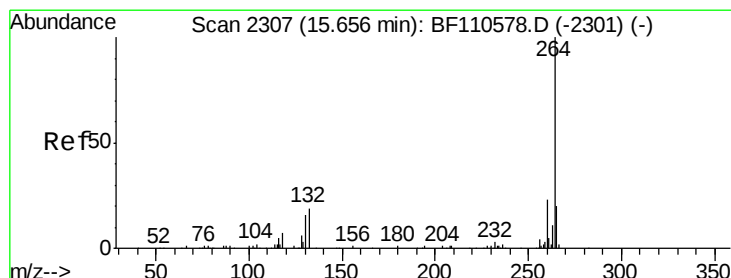
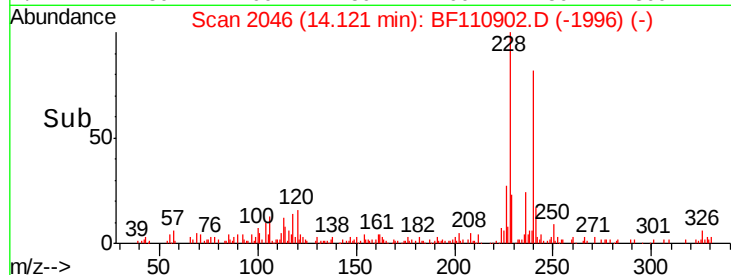
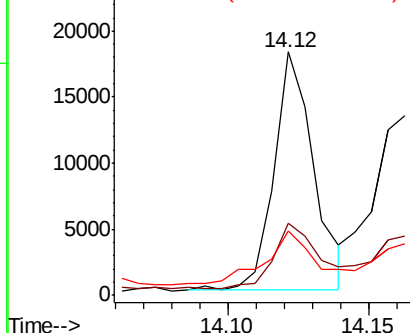


Abundance

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



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2309  
Delta R.T. 0.01 min  
Lab File: BF110902.D  
Acq: 20 Nov 2018 18:50

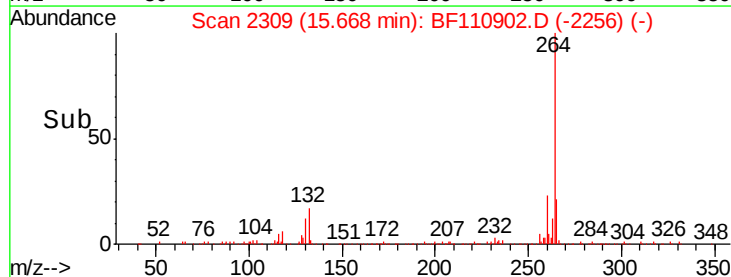
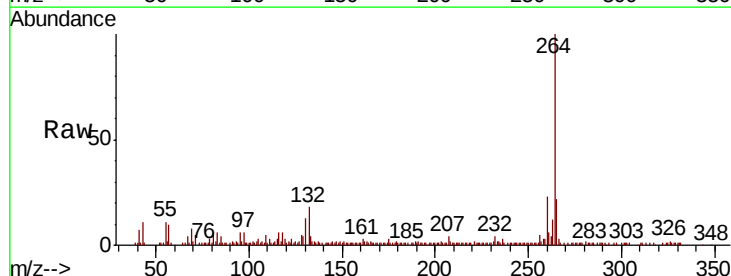
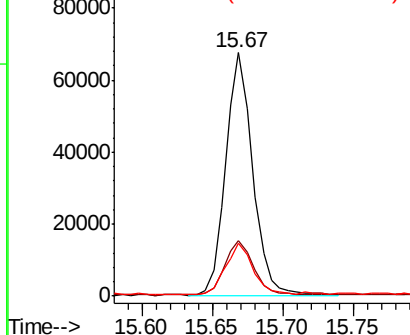
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 18.7  | 28.1  |
| 265     | 21.9  | 16.7  | 25.1  |

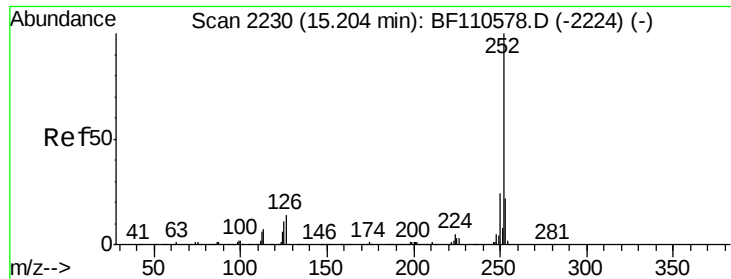
Abundance

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: 2.217 ng/mL

RT: 15.22 min Scan# 2232

Delta R.T. 0.01 min

Lab File: BF110902.D

Acq: 20 Nov 2018 18:50

Instrument :

BNA\_F

ClientSampleId :

HR-06-111918-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 33.0  | 17.2  | 25.8# |
| 125     | 32.2  | 8.2   | 12.4# |

Manual Integrations  
APPROVED

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