

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\  
 Data File : BF111550.D  
 Acq On : 17 Dec 2018 20:26  
 Operator : JU/SJ  
 Sample : J6403-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1-B

Manual Integrations  
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Quant Time: Dec 18 06:25:22 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  | 185496   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 754791   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.82  | 164  | 350199   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.30 | 188  | 592801   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 13.94 | 240  | 382375   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.38 | 264  | 375416   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 730833   | 65.56  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.44  | 99   | 1429035  | 96.38  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.35  | 82   | 849960   | 67.06  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.61 | 330  | 263421   | 83.97  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.15  | 172  | 1337081  | 58.98  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.89 | 244  | 947108   | 58.16  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.45  | 94   | 85900    | 5.200  | ng    | 84       |
| 50) Dimethylphthalate          | 9.54  | 163  | 136202   | 5.400  | ng    | 98       |
| 71) Phenanthrene               | 11.33 | 178  | 65146    | 2.133  | ng    | 95       |
| 75) Fluoranthene               | 12.52 | 202  | 111285   | 3.724  | ng    | 97       |
| 78) Pyrene                     | 12.74 | 202  | 109502   | 4.062  | ng    | 94       |
| 81) Benzo(a)anthracene         | 13.93 | 228  | 45740    | 2.200  | ng    | 98       |
| 83) Chrysene                   | 13.97 | 228  | 47661    | 2.176  | ng    | 93       |
| 84) Bis(2-ethylhexyl)phthalate | 13.93 | 149  | 296060   | 17.640 | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 14.97 | 252  | 64083m   | 2.928  | ng    |          |
| 90) Benzo(a)pyrene             | 15.32 | 252  | 44030    | 2.231  | ng    | 95       |

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

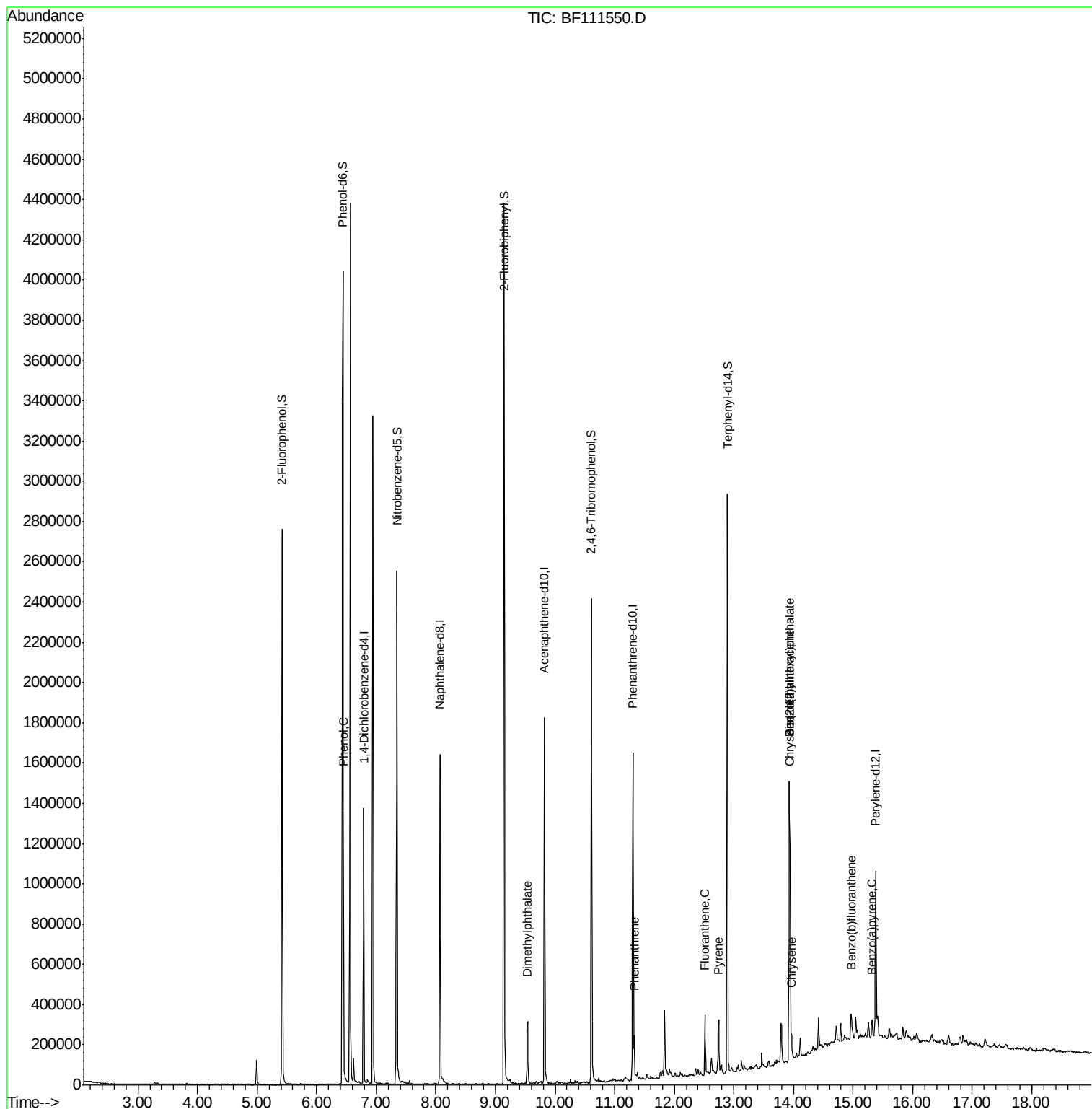
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\  
Data File : BF111550.D  
Acq On : 17 Dec 2018 20:26  
Operator : JU/SJ  
Sample : J6403-05  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

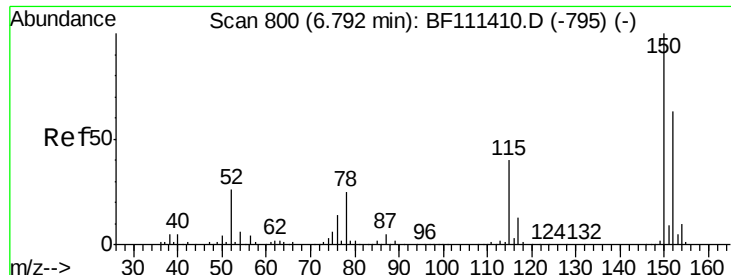
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1-B

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Quant Time: Dec 18 06:25:22 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

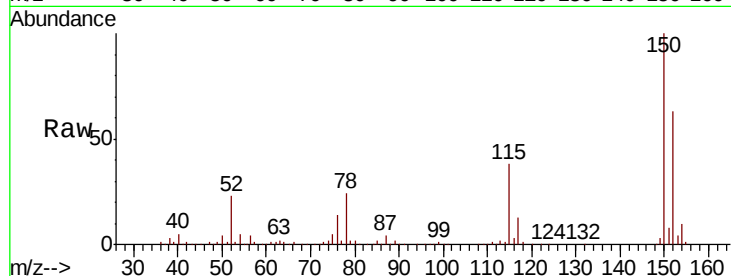
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.79 min Scan# 799  
 Delta R.T. -0.01 min  
 Lab File: BF111550.D  
 Acq: 17 Dec 2018 20:26

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-1-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.5 | 126.6 | 189.8 |
| 115     | 60.2  | 50.7  | 76.1  |

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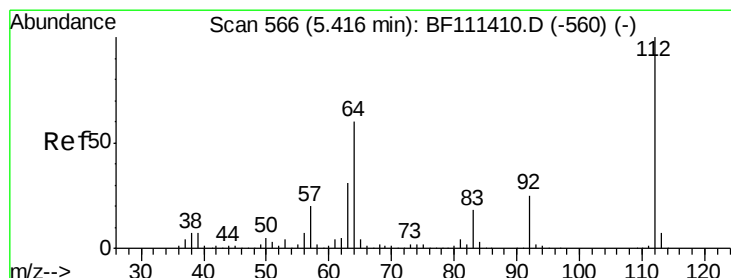
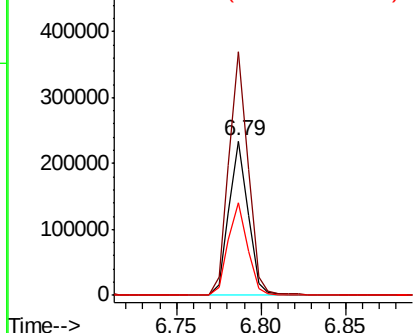
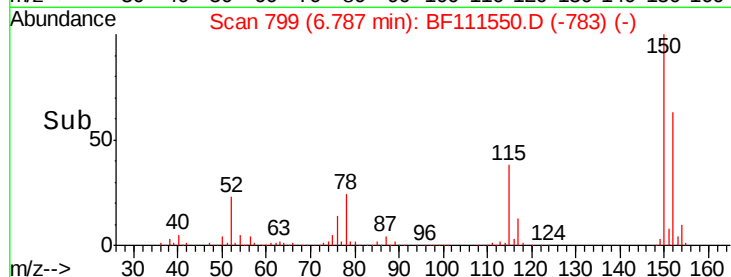


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

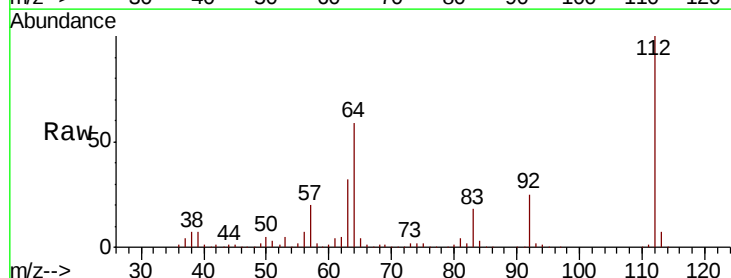
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 65.562 ng  
 RT: 5.42 min Scan# 567  
 Delta R.T. 0.01 min  
 Lab File: BF111550.D  
 Acq: 17 Dec 2018 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.4  | 51.8  | 77.6  |
| 63      | 31.9  | 26.8  | 40.2  |

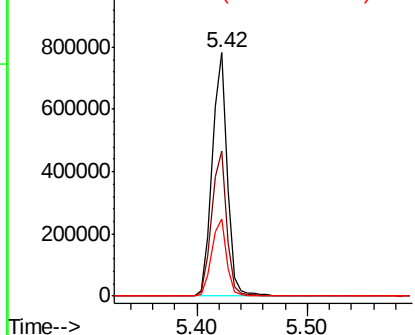
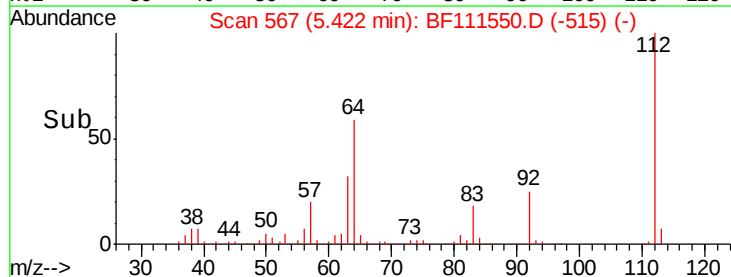


Abundance

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: 96.376 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

Instrument :

BNA\_F

ClientSampled :

TP-1-B

Tot Ion: 99 Resp: 1429035

Ion Ratio Lower Upper

99 100

42 18.8 17.4 26.0

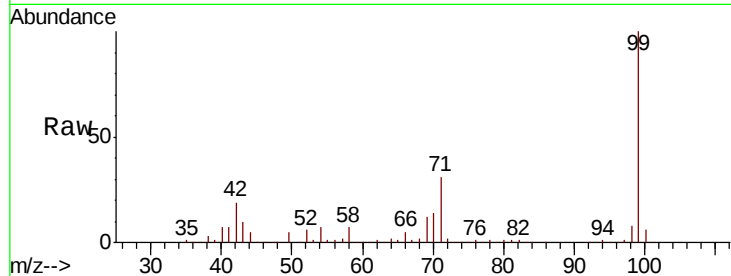
71 30.5 26.1 39.1

Manual Integrations

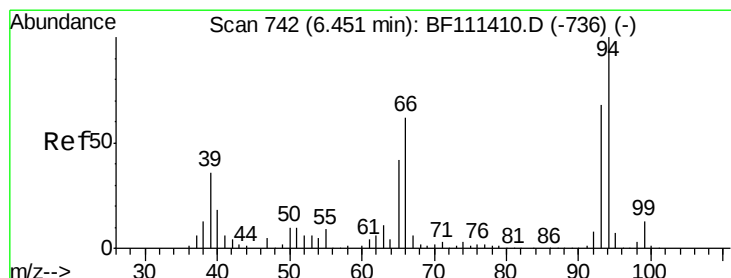
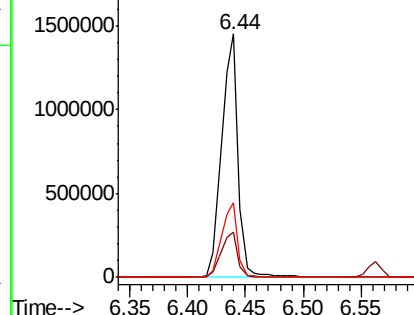
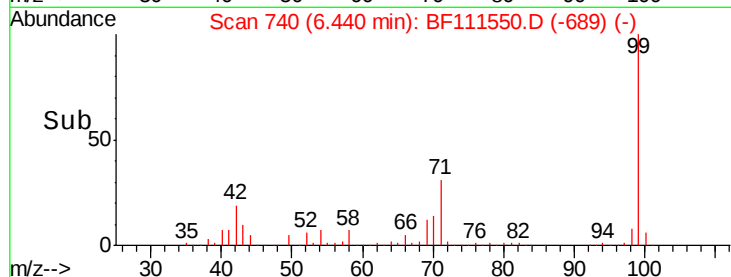
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 5.200 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.00 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

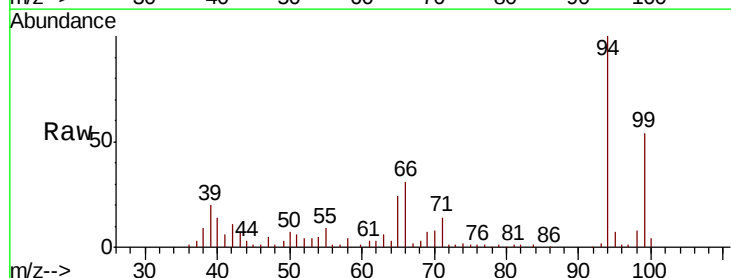
Tgt Ion: 94 Resp: 85900

Ion Ratio Lower Upper

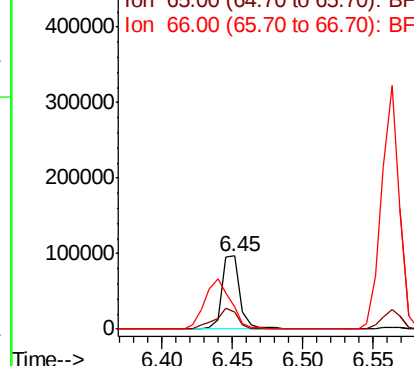
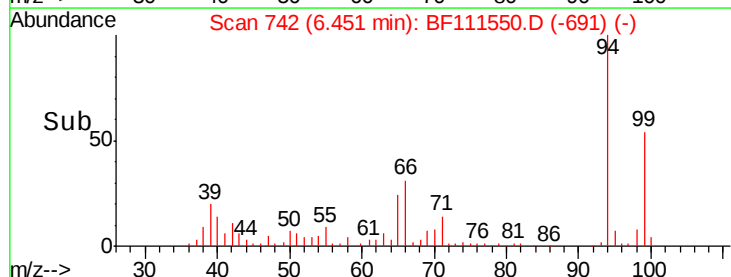
94 100

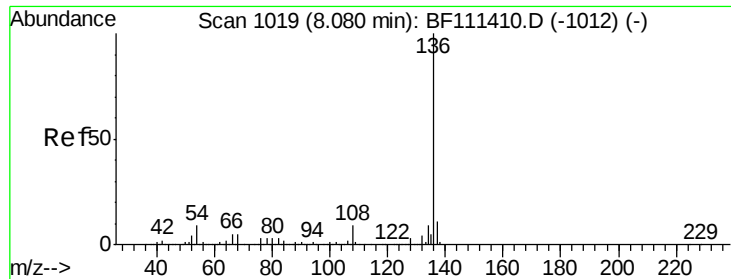
65 23.6 11.7 51.7

66 30.7 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





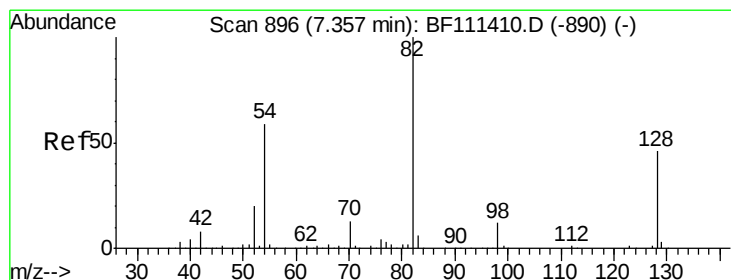
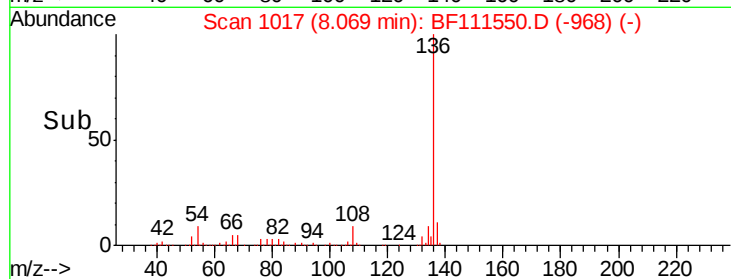
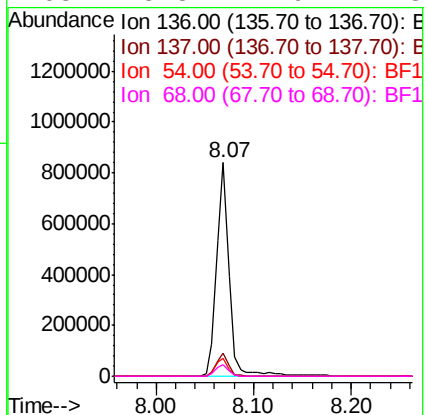
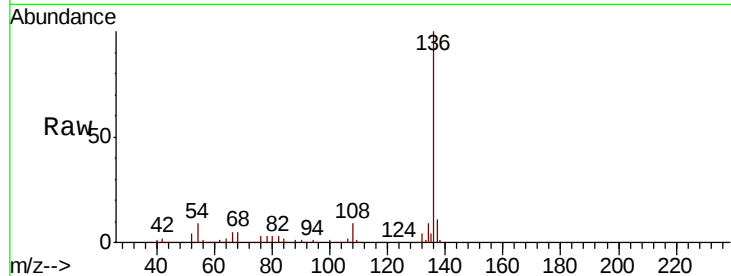
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1017  
Delta R.T. -0.01 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1-B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.9  | 9.1  | 13.7  |       |
| 54      | 8.5   | 7.7  | 11.5  |       |
| 68      | 5.3   | 4.9  | 7.3   |       |

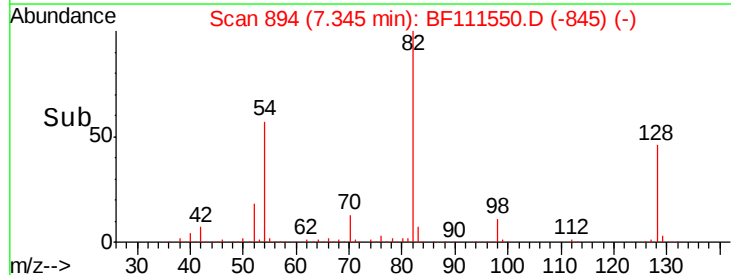
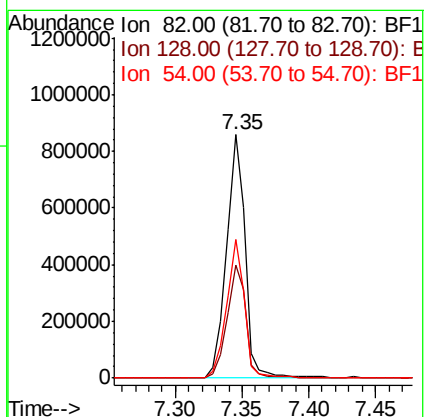
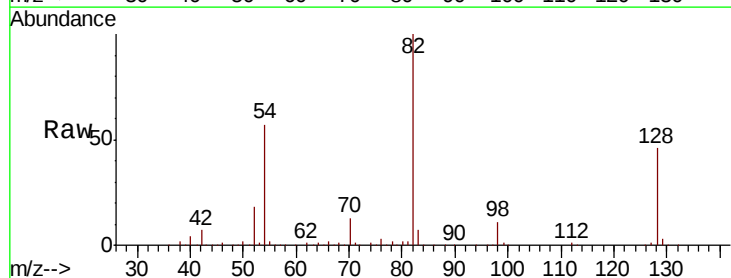
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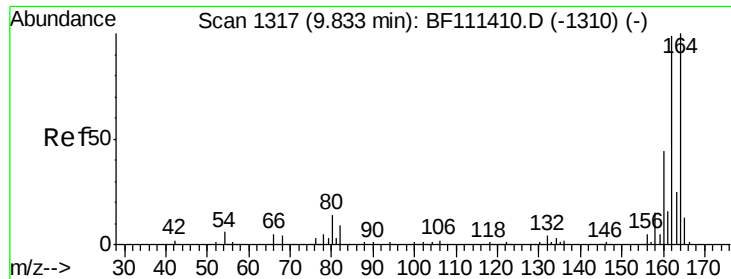
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#23  
Nitrobenzene-d5  
Concen: 67.057 ng  
RT: 7.35 min Scan# 894  
Delta R.T. -0.01 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 46.5  | 37.4 | 56.2  |       |
| 54      | 57.0  | 47.6 | 71.4  |       |





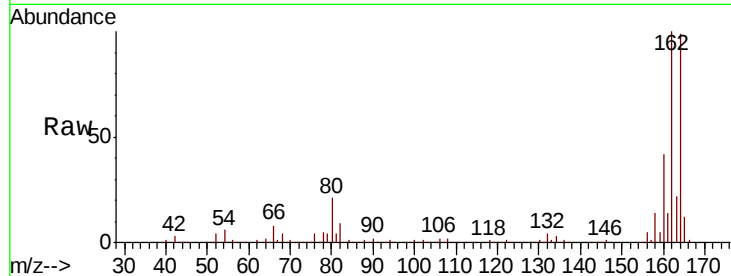
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.01 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

Instrument :  
BNA\_F  
ClientSampled :  
TP-1-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.9 | 81.4  | 122.0 |
| 160     | 42.4  | 35.7  | 53.5  |

Manual Integrations  
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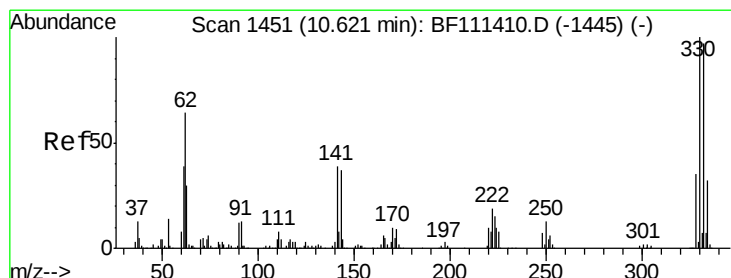
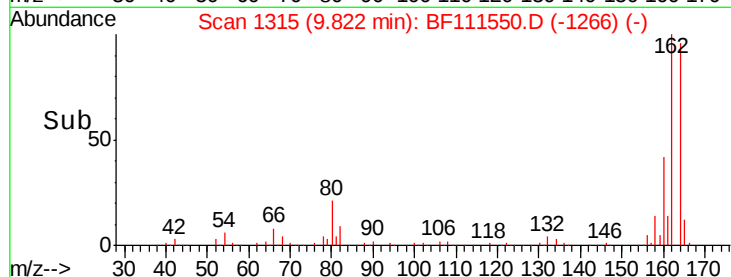
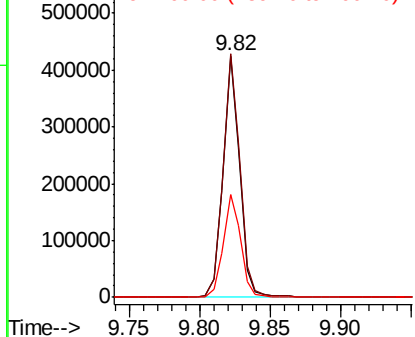


Abundance

Ion 164.00 (163.70 to 164.70): E

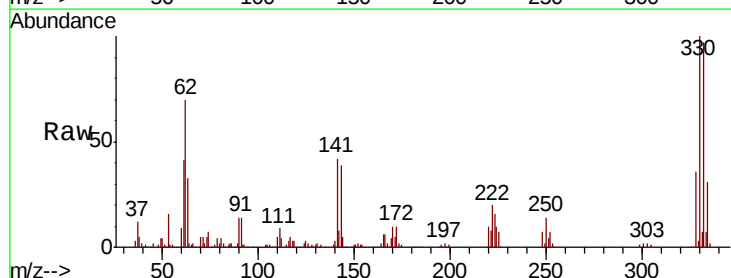
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42  
2,4,6-Tribromophenol  
Concen: 83.971 ng  
RT: 10.61 min Scan# 1449  
Delta R.T. -0.01 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 76.0  | 114.0 |
| 141     | 37.2  | 31.0  | 46.6  |

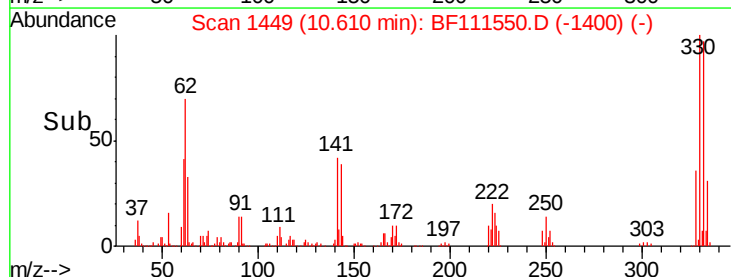
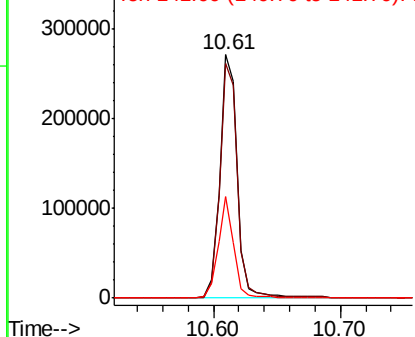


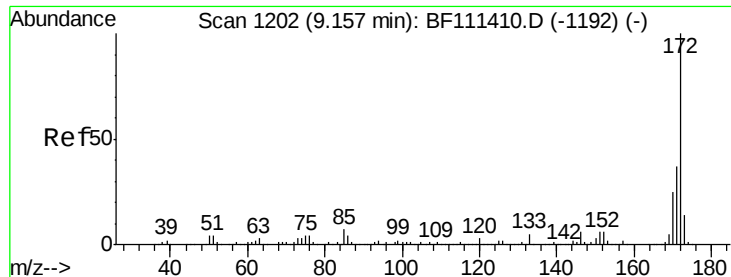
Abundance

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





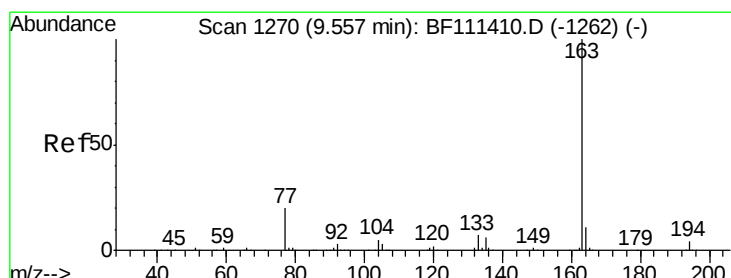
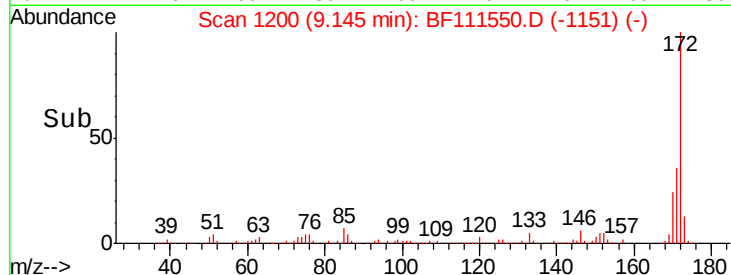
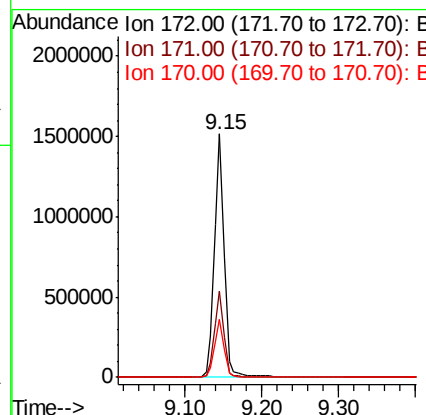
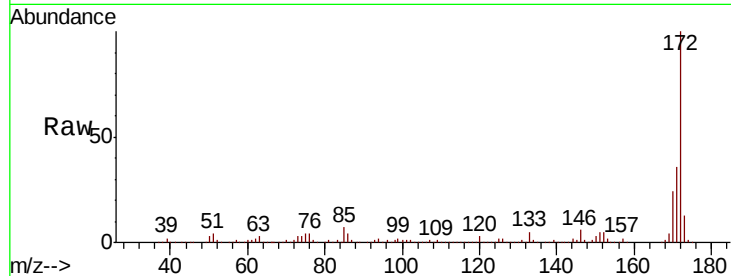
#45  
2-Fluorobiphenyl  
Concen: 58.975 ng  
RT: 9.15 min Scan# 1200  
Delta R.T. -0.01 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 33.0  | 49.4  |
| 170     | 23.8  | 22.3  | 33.5  |

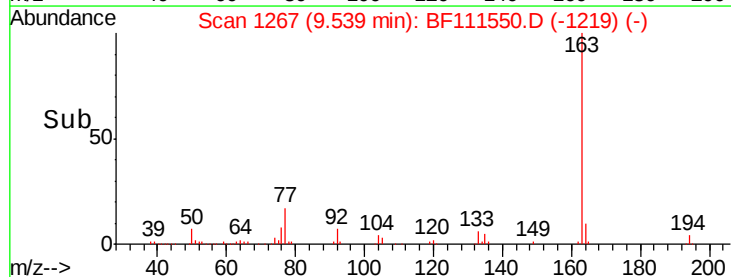
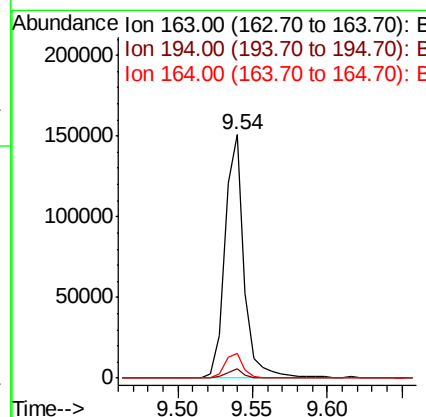
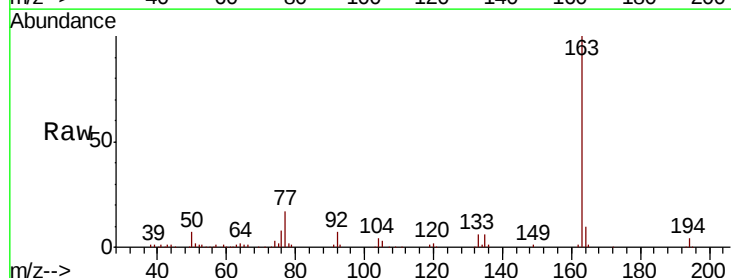
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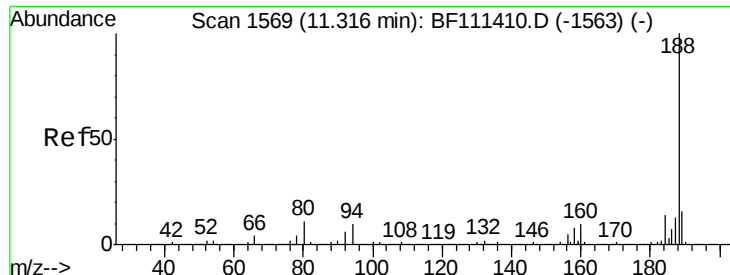
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#50  
Dimethylphthalate  
Concen: 5.400 ng  
RT: 9.54 min Scan# 1267  
Delta R.T. -0.02 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.0   | 3.0   | 4.6   |
| 164     | 9.9   | 8.9   | 13.3  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.30 min Scan# 1567

Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

Instrument :

BNA\_F

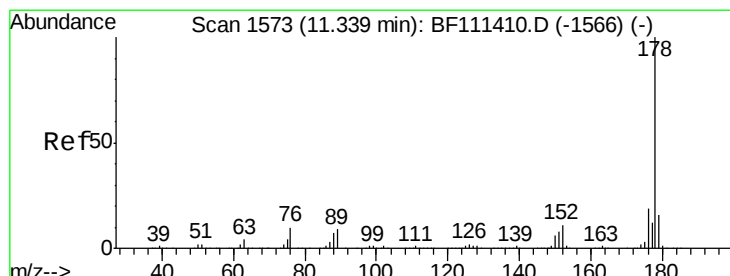
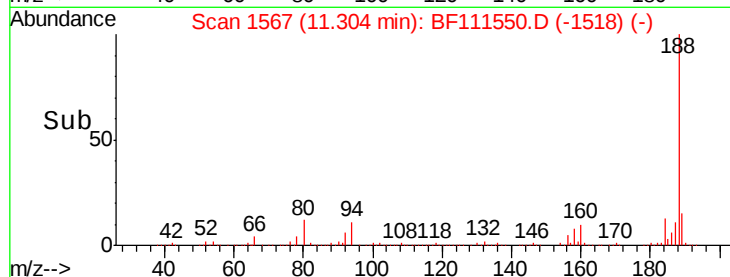
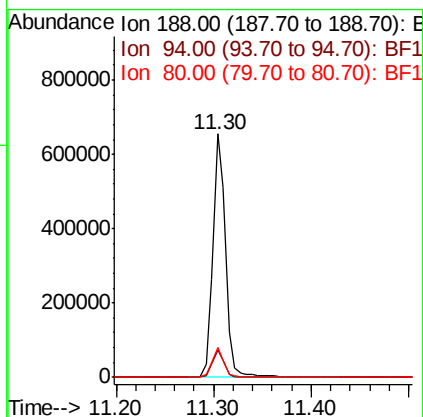
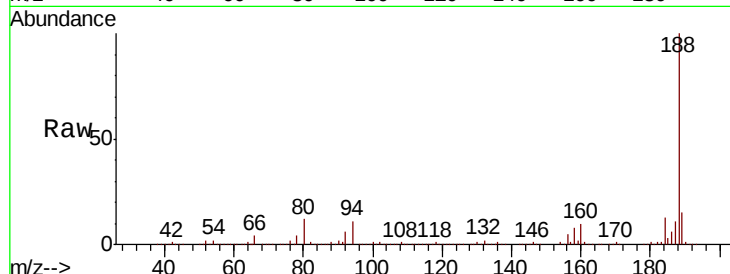
ClientSampled :

TP-1-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 592801 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.3  | 9.6   | 14.4   |
| 80        | 12.2  | 9.8   | 14.6   |

Manual Integrations  
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#71

Phenanthrene

Concen: 2.133 ng

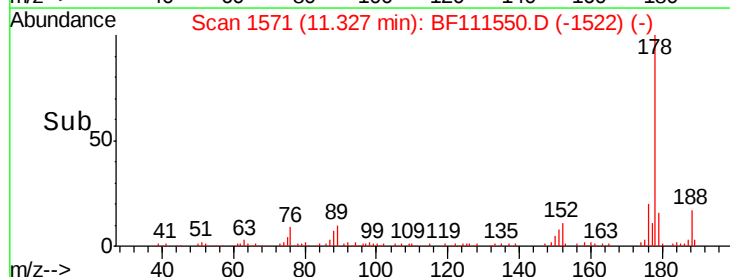
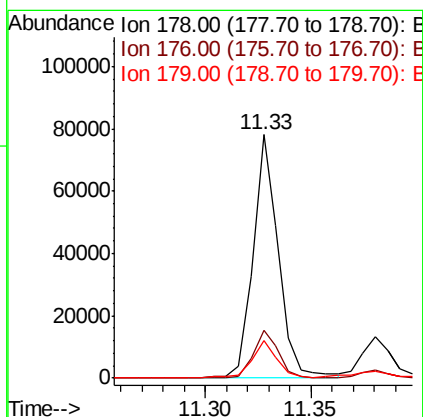
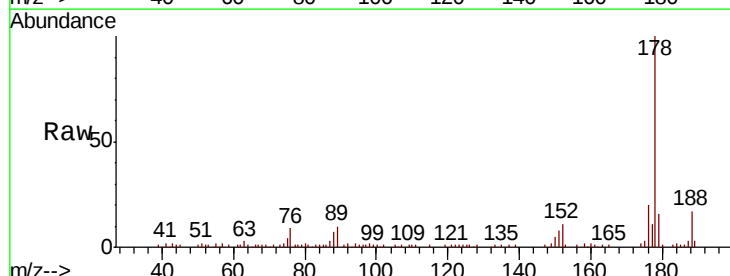
RT: 11.33 min Scan# 1571

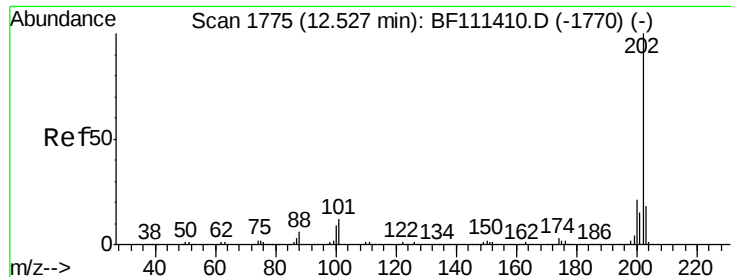
Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 65146 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.6  | 18.1  | 27.1  |
| 179       | 15.5  | 14.0  | 21.0  |





#75

Fluoranthene

Concen: 3.724 ng

RT: 12.52 min Scan# 1773

Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

Instrument :

BNA\_F

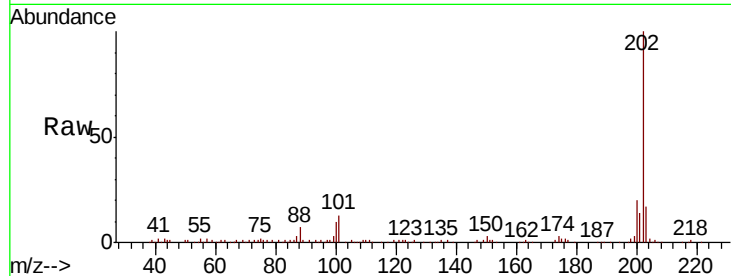
ClientSampleId :

TP-1-B

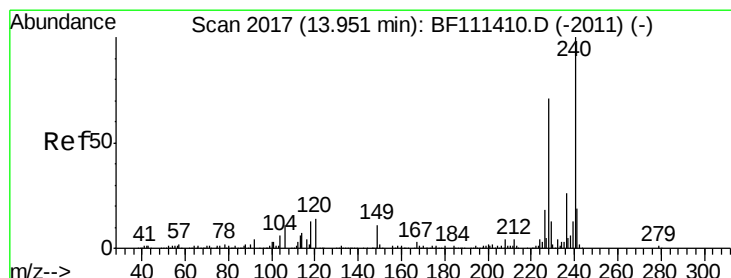
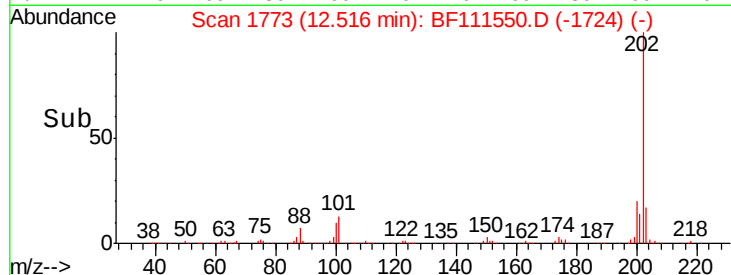
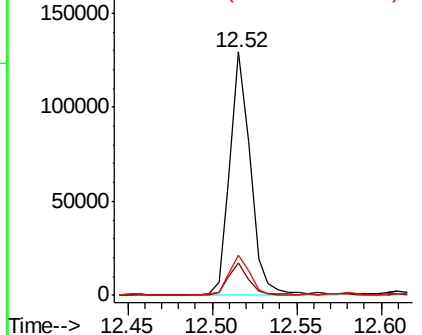
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 111285 |       |       |
| 101     | 13.5 | 0.0   | 33.8   |       |       |
| 203     | 16.6 | 0.0   | 38.6   |       |       |

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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

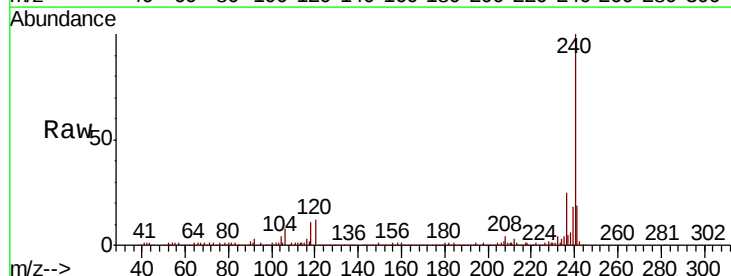
RT: 13.94 min Scan# 2016

Delta R.T. -0.01 min

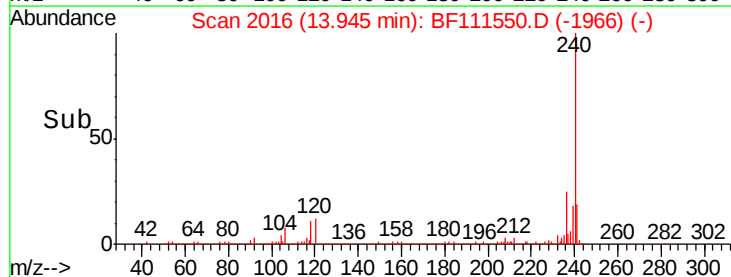
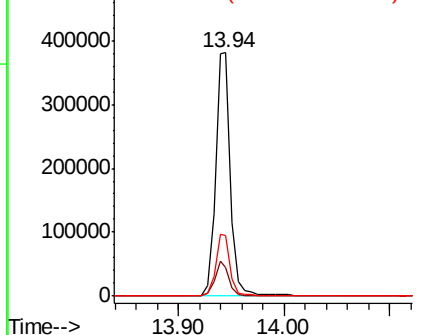
Lab File: BF111550.D

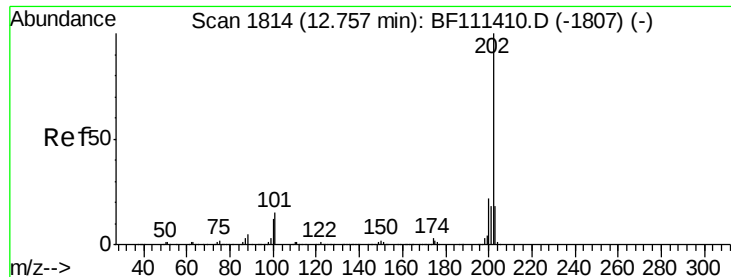
Acq: 17 Dec 2018 20:26

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 382375 |       |       |
| 120     | 11.8 | 12.2  | 18.2#  |       |       |
| 236     | 25.0 | 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: 4.062 ng

RT: 12.74 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

Instrument :

BNA\_F

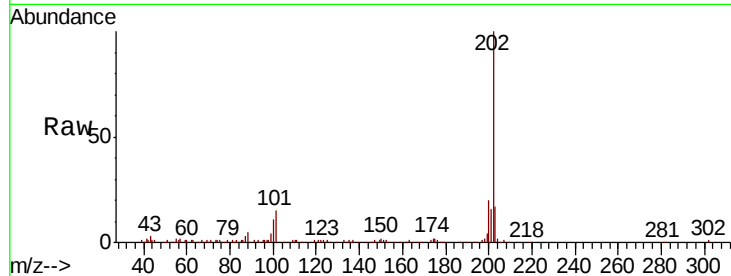
ClientSampleId :

TP-1-B

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 109502 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.1 | 19.0  | 28.4   |
| 203       | 16.9 | 15.2  | 22.8   |

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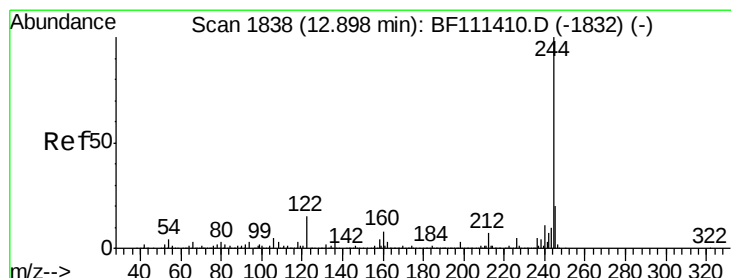
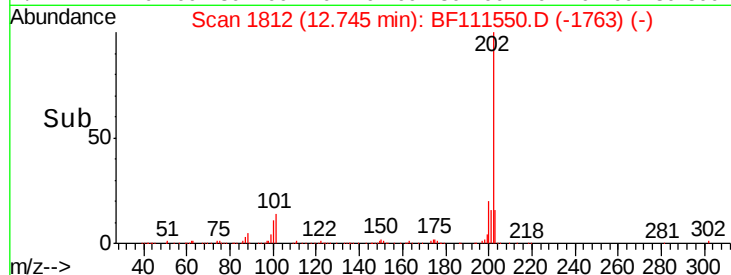
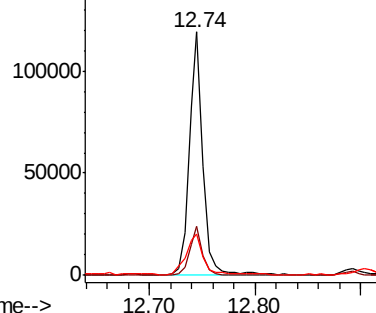


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 58.164 ng

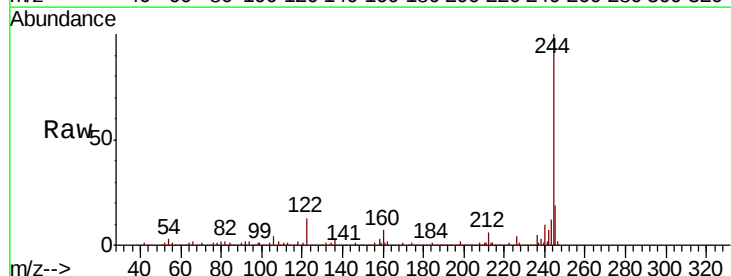
RT: 12.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 947108 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 6.1  | 5.7   | 8.5    |
| 122       | 13.0 | 13.1  | 19.7#  |

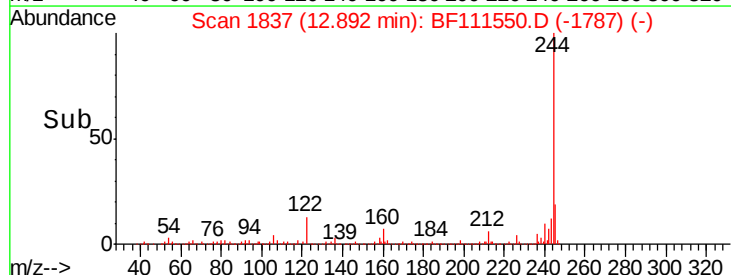
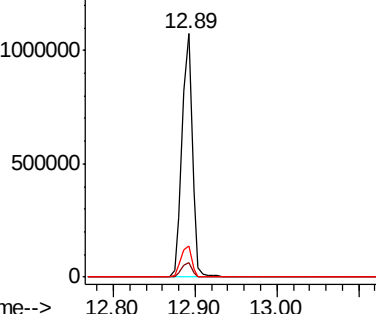


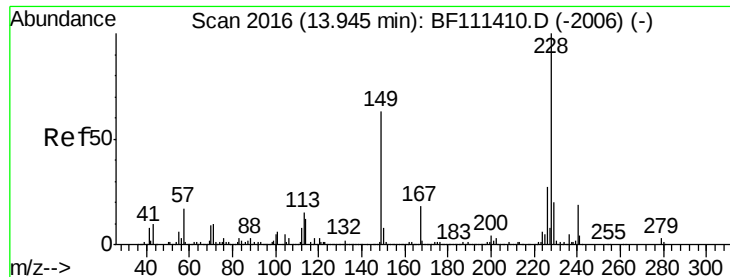
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 2.200 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

Instrument :

BNA\_F

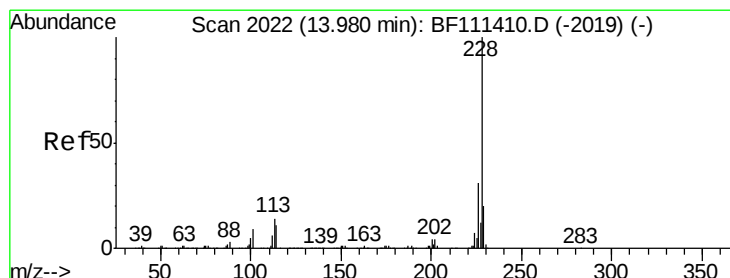
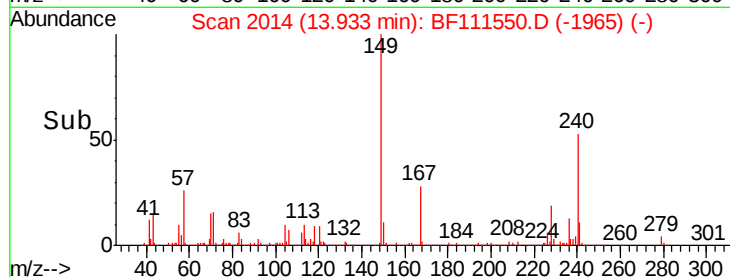
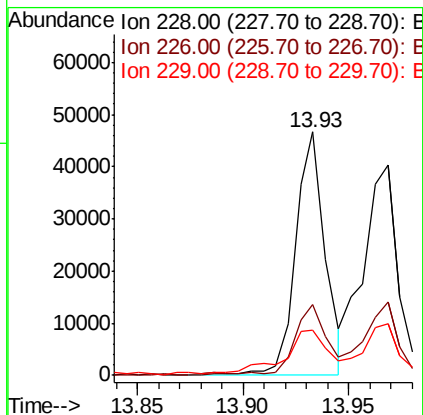
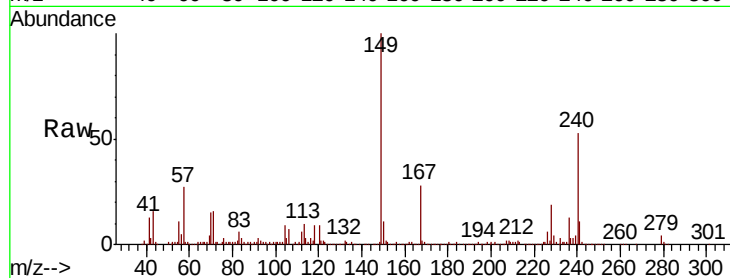
ClientSampled :

TP-1-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 45740 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.9  | 22.6  | 34.0  |
| 229       | 18.6  | 16.3  | 24.5  |

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#83

Chrysene

Concen: 2.176 ng

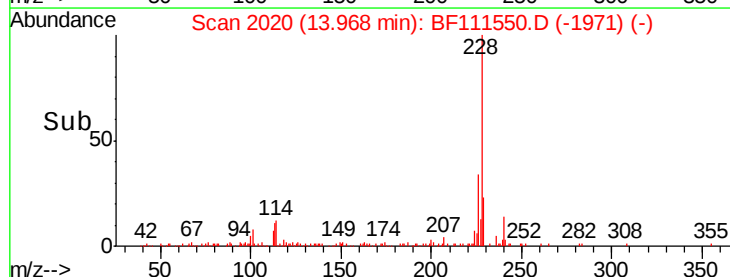
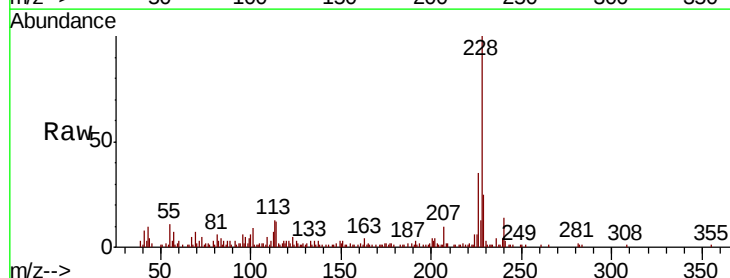
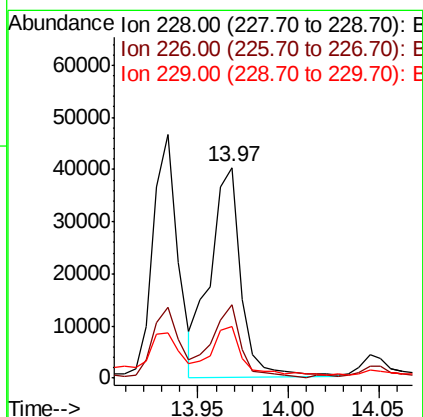
RT: 13.97 min Scan# 2020

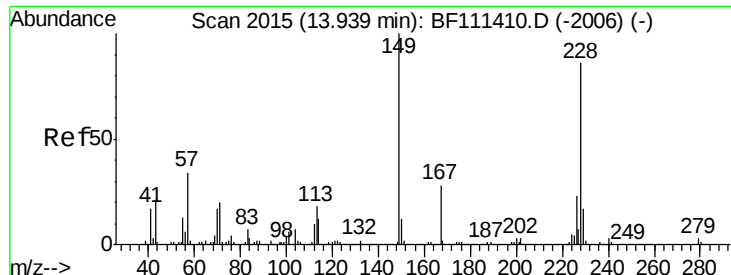
Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 47661 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 35.2  | 25.3  | 37.9  |
| 229       | 24.7  | 17.2  | 25.8  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 17.640 ng

RT: 13.93 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

Instrument :

BNA\_F

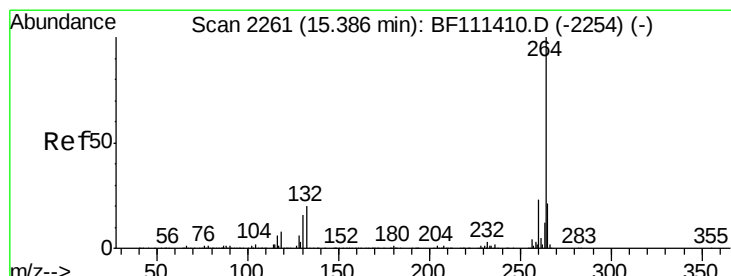
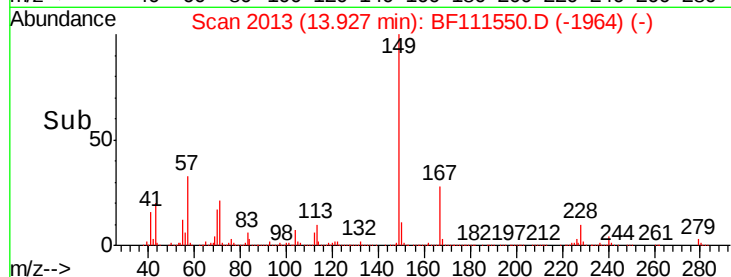
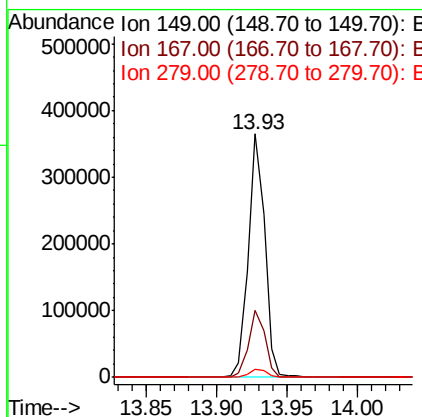
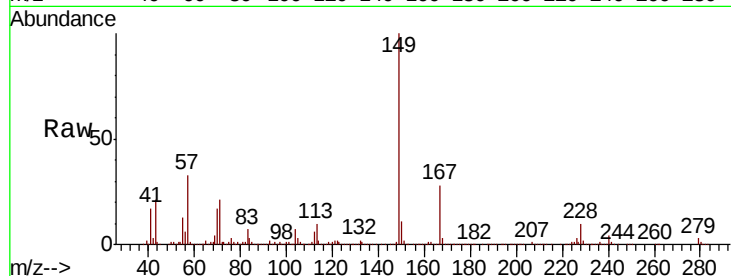
ClientSampled :

TP-1-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 296060 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 27.6  | 22.5  | 33.7   |
| 279       | 3.2   | 2.6   | 4.0    |

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#87

Perylene-d12

Concen: 20.000 ng

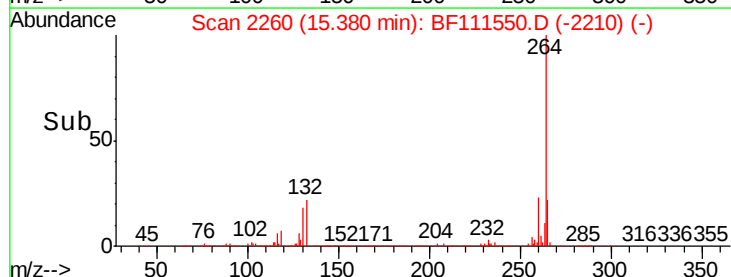
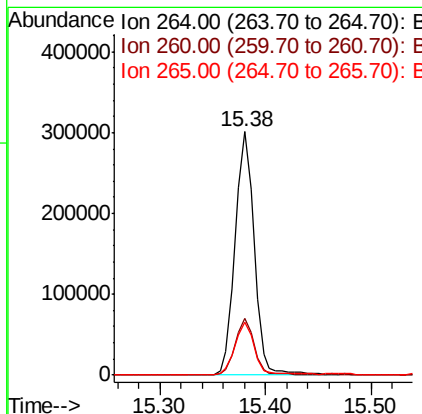
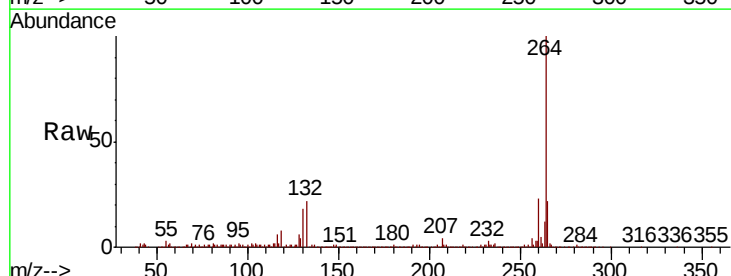
RT: 15.38 min Scan# 2260

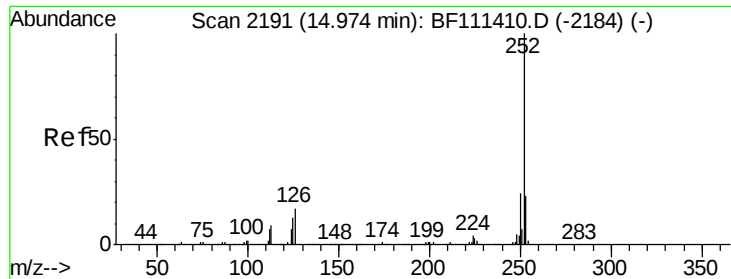
Delta R.T. -0.01 min

Lab File: BF111550.D

Acq: 17 Dec 2018 20:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 375416 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.4  | 18.3  | 27.5   |
| 265       | 21.8  | 17.7  | 26.5   |





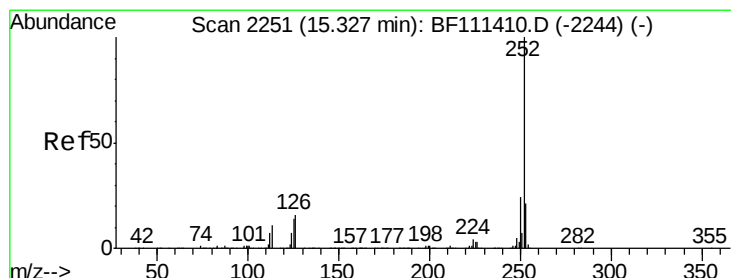
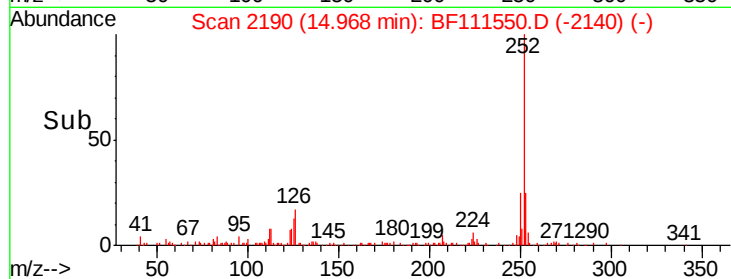
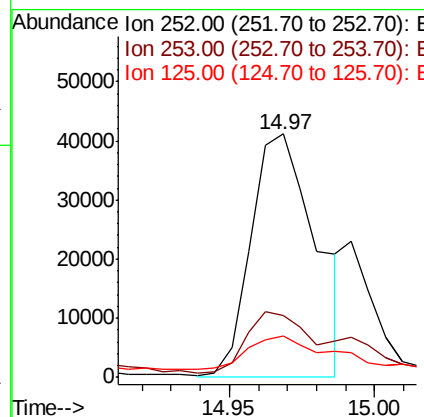
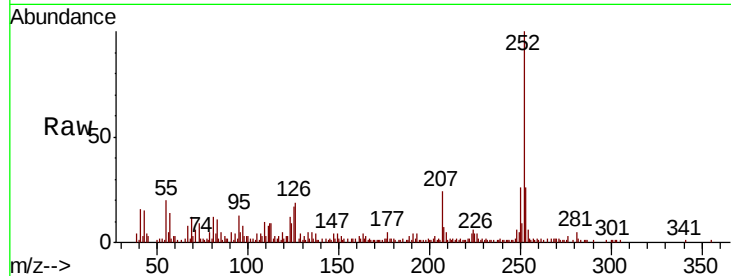
#88  
Benzo(b)fluoranthene  
Concen: 2.928 ng m  
RT: 14.97 min Scan# 2190  
Delta R.T. -0.01 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

Instrument :  
BNA\_F  
ClientSampled :  
TP-1-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 18.2  | 27.2  |
| 125     | 17.0  | 10.4  | 15.6  |

Manual Integrations  
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#90  
Benzo(a)pyrene  
Concen: 2.231 ng  
RT: 15.32 min Scan# 2249  
Delta R.T. -0.01 min  
Lab File: BF111550.D  
Acq: 17 Dec 2018 20:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.8  | 26.8  |
| 125     | 17.1  | 12.3  | 18.5  |

