

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
 Data File : BF113028.D  
 Acq On : 13 Mar 2019 9:50  
 Operator : JU/SJ  
 Sample : K1817-14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

Manual Integrations  
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 3/13/2019 4:33:43 PM

Quant Time: Mar 13 12:32:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 188308   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.01  | 136  | 642653   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.76  | 164  | 289147   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.24 | 188  | 520644   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.86 | 240  | 536922   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.27 | 264  | 422764   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.35  | 112  | 876201   | 72.38 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 1127911  | 74.17 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 643436   | 59.91 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 299138   | 97.45 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 1220314  | 65.90 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.82 | 244  | 1198879  | 43.28 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.48  | 163  | 107548   | 5.044 | ng    | 98       |
| 71) Phenanthrene            | 11.26 | 178  | 86461    | 3.338 | ng    | 100      |
| 75) Fluoranthene            | 12.44 | 202  | 143980   | 5.188 | ng    | 97       |
| 78) Pyrene                  | 12.67 | 202  | 181338   | 4.006 | ng    | 98       |
| 83) Chrysene                | 13.89 | 228  | 87785    | 2.408 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 14.87 | 252  | 69899m   | 2.556 | ng    |          |
| 90) Benzo(a)pyrene          | 15.21 | 252  | 51699    | 2.137 | ng    | # 93     |

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

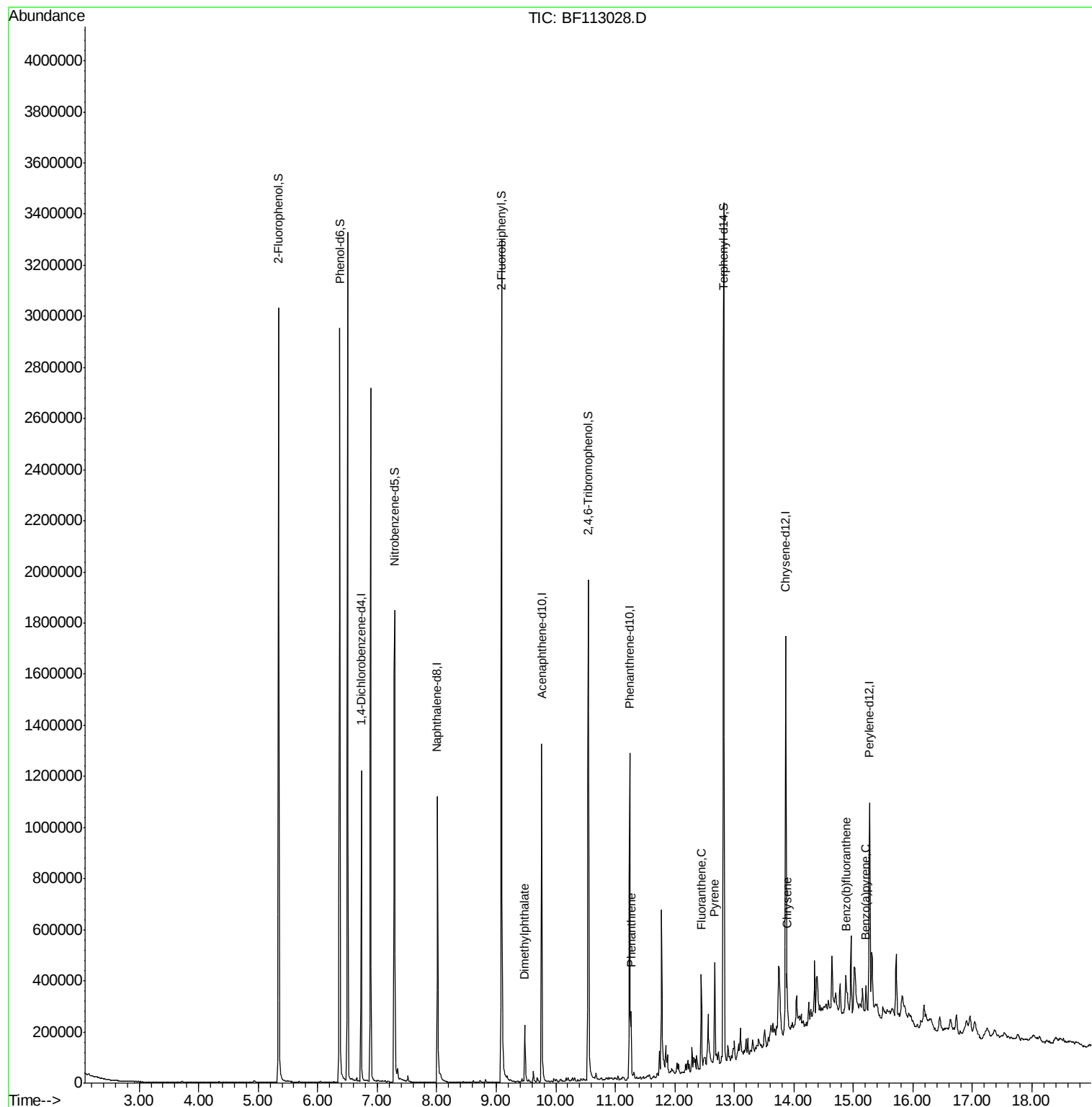
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113028.D  
Acq On : 13 Mar 2019 9:50  
Operator : JU/SJ  
Sample : K1817-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
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PST-027-B116-030619

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Quant Time: Mar 13 12:32:47 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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#1

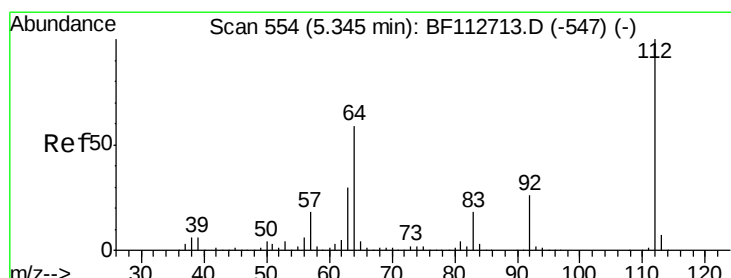
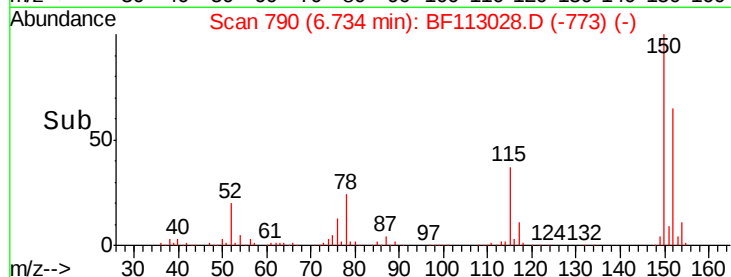
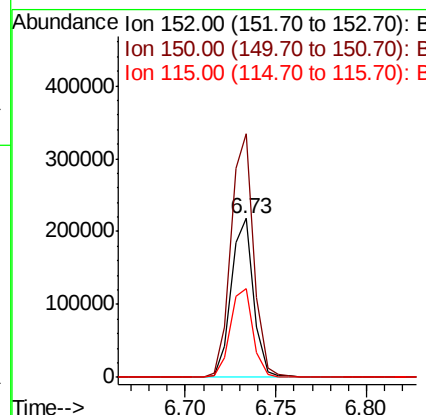
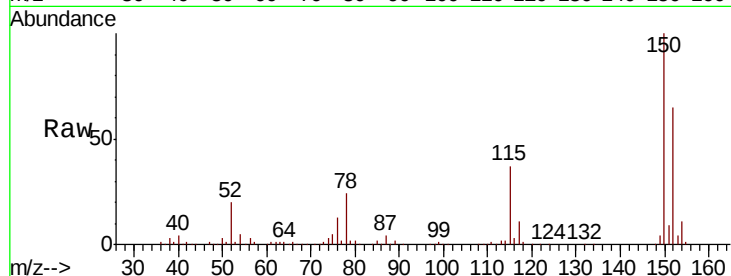
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.4 | 124.2 | 186.2 |
| 115     | 56.3  | 48.2  | 72.4  |

Manual Integrations  
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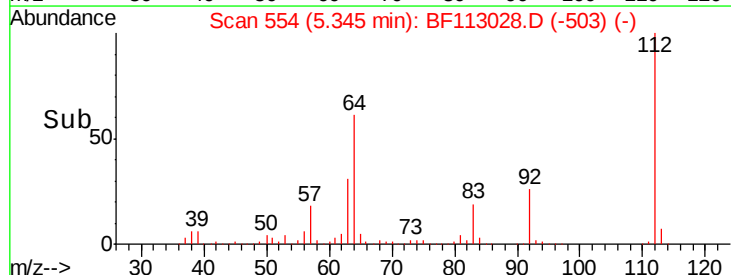
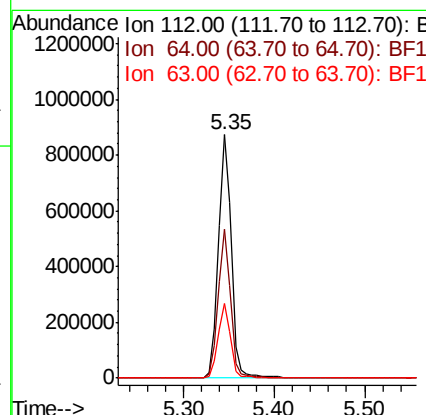
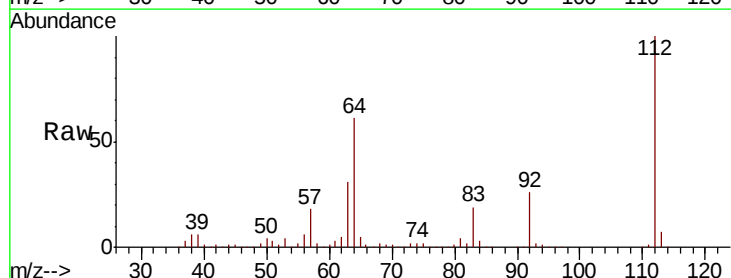
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3/13/2019 4:33:43 PM

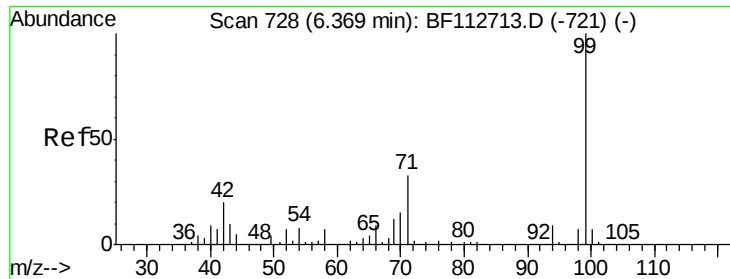


#5

2-Fluorophenol  
Concen: 72.380 ng  
RT: 5.35 min Scan# 554  
Delta R.T. -0.00 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.9  | 47.6  | 71.4  |
| 63      | 30.7  | 24.4  | 36.6  |





#7

Phenol-d6

Concen: 74.172 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113028.D

Acq: 13 Mar 2019 9:50

Instrument :

BNA\_F

ClientSampleId :

PST-027-B116-030619

Tot Ion: 99 Resp: 1127911

Ion Ratio Lower Upper

99 100

42 18.5 16.3 24.5

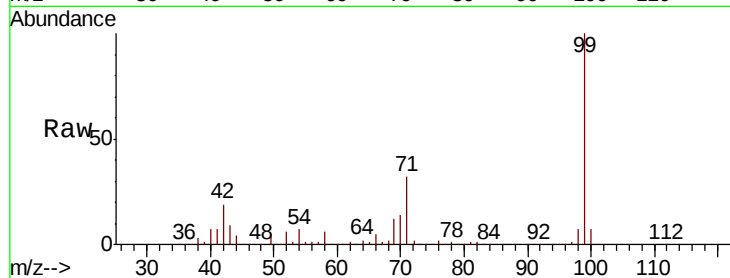
71 31.9 26.2 39.4

Manual Integrations

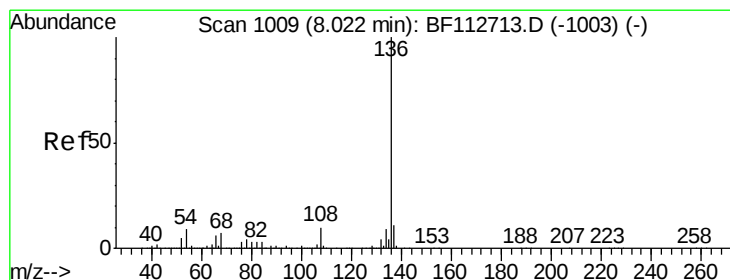
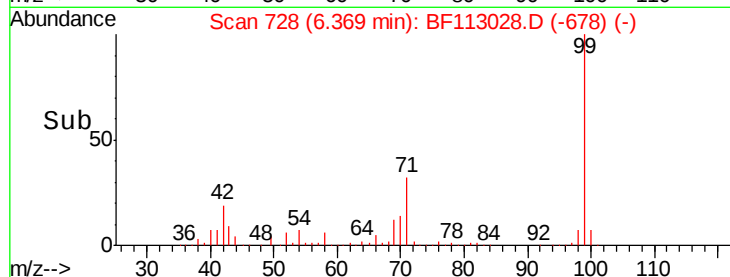
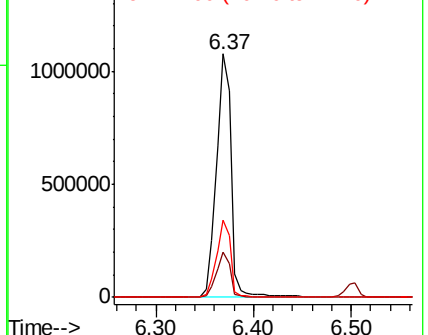
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113028.D

Acq: 13 Mar 2019 9:50

Tgt Ion: 136 Resp: 642653

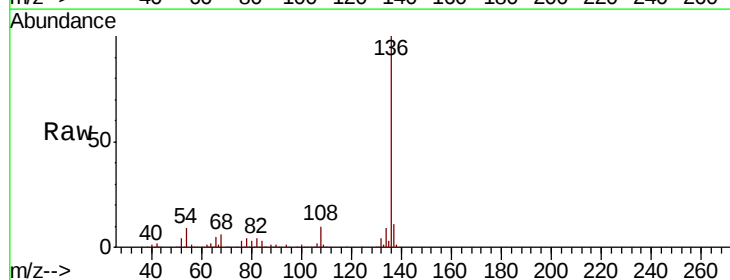
Ion Ratio Lower Upper

136 100

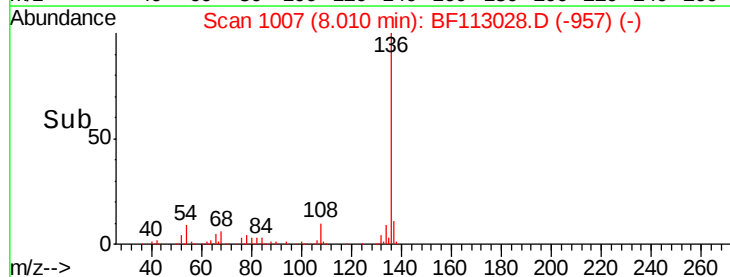
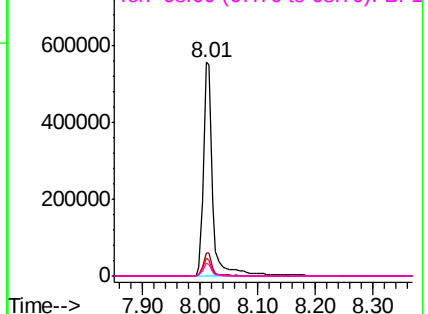
137 11.1 8.9 13.3

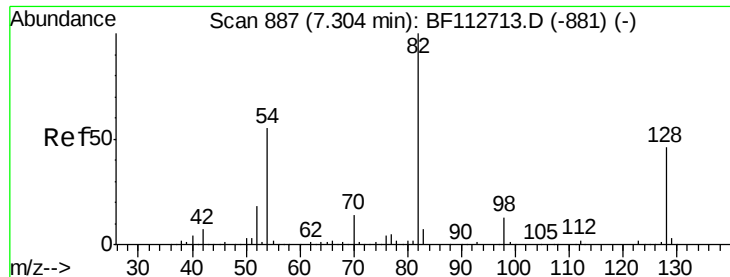
54 8.6 7.3 10.9

68 6.2 5.4 8.2



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1





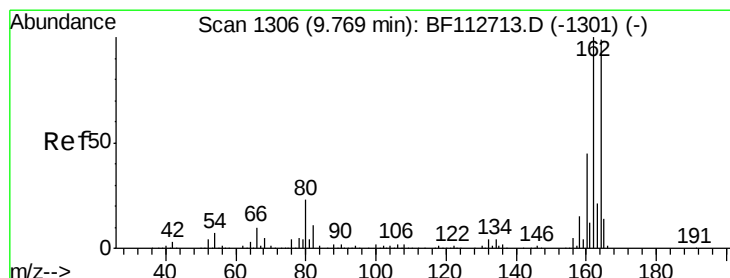
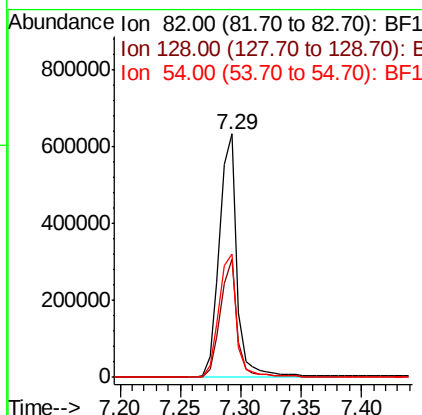
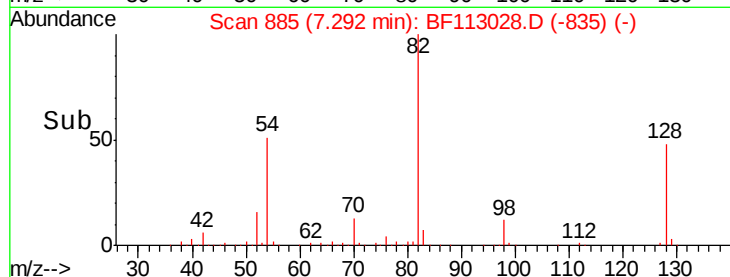
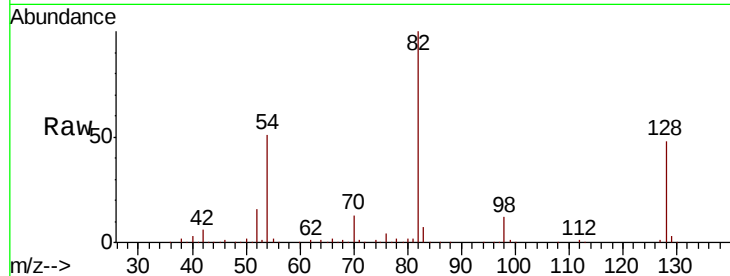
#23  
 Nitrobenzene-d5  
 Concen: 59.911 ng  
 RT: 7.29 min Scan# 885  
 Delta R.T. -0.01 min  
 Lab File: BF113028.D  
 Acq: 13 Mar 2019 9:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 48.3  | 36.3  | 54.5  |
| 54      | 50.6  | 43.7  | 65.5  |

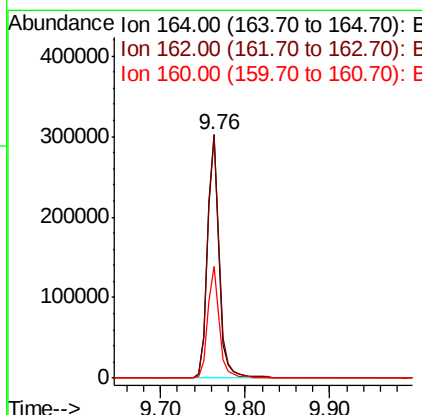
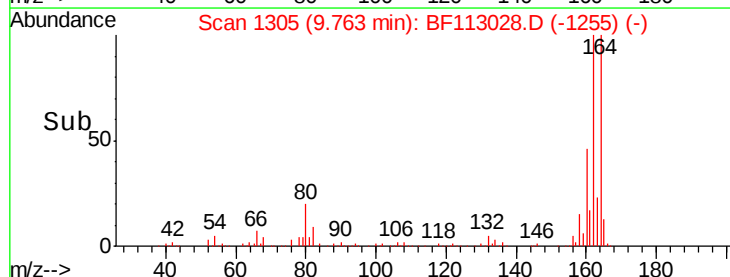
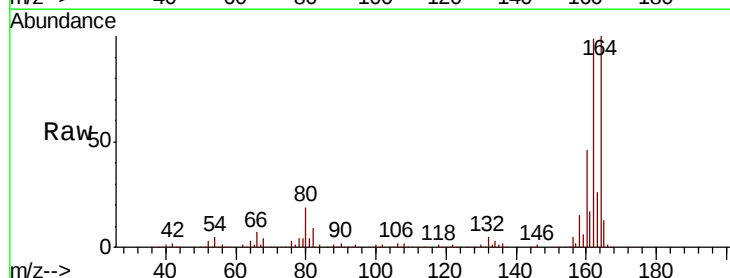
Manual Integrations  
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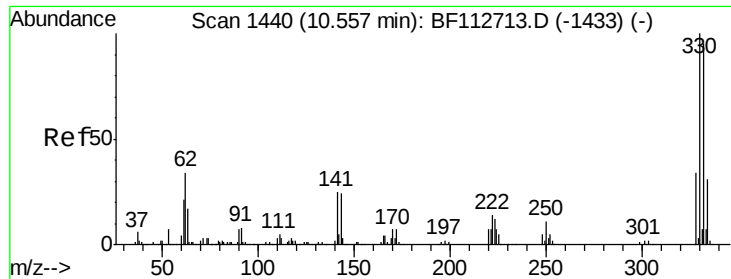
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BF113028.D  
 Acq: 13 Mar 2019 9:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.3  | 80.6  | 120.8 |
| 160     | 45.8  | 36.0  | 54.0  |





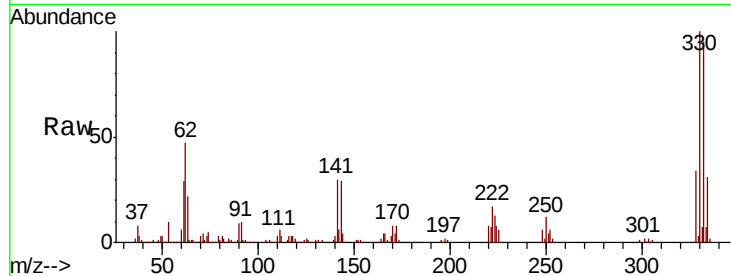
#42  
 2,4,6-Tribromophenol  
 Concen: 97.450 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF113028.D  
 Acq: 13 Mar 2019 9:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 299138 |       |       |
| 332     | 96.8  | 76.2   | 114.4 |       |
| 141     | 28.5  | 27.0   | 40.6  |       |

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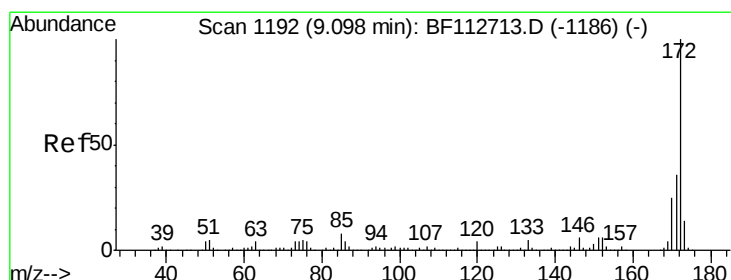
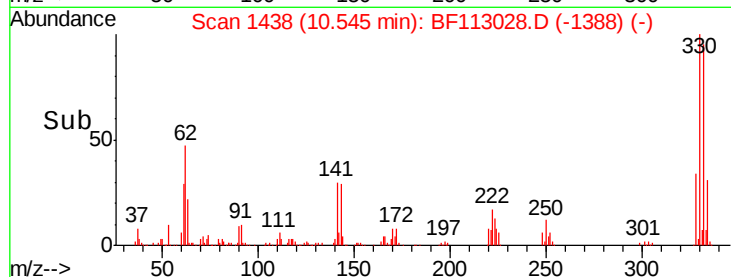
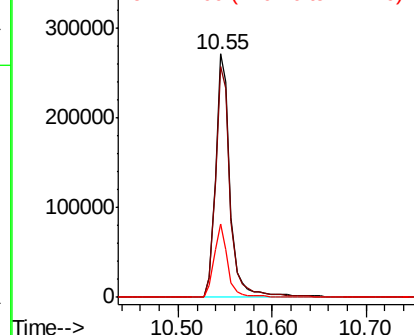


Abundance

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: 65.904 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF113028.D  
 Acq: 13 Mar 2019 9:50

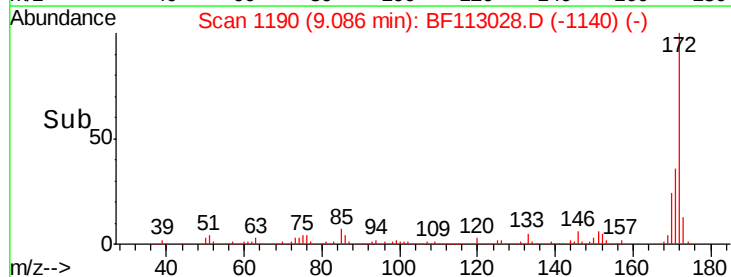
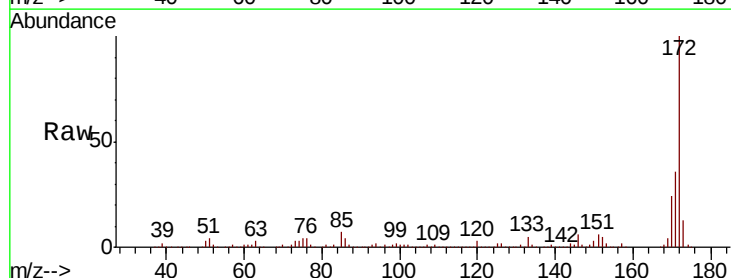
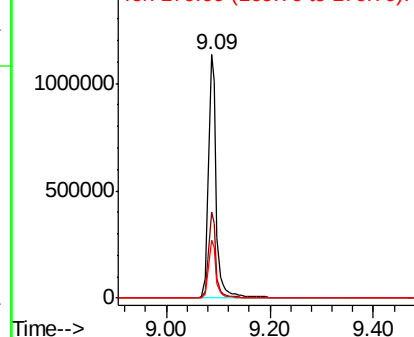
| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1220314 |       |       |
| 171     | 35.6  | 29.0    | 43.4  |       |
| 170     | 23.8  | 20.0    | 30.0  |       |

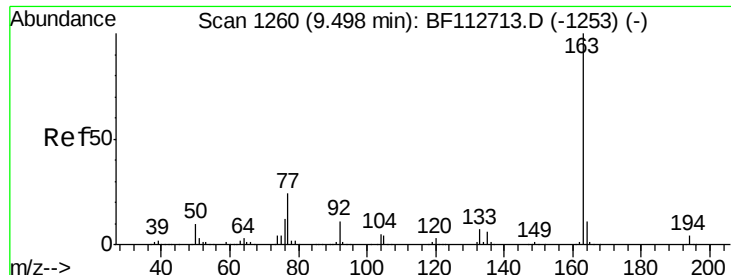
Abundance

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





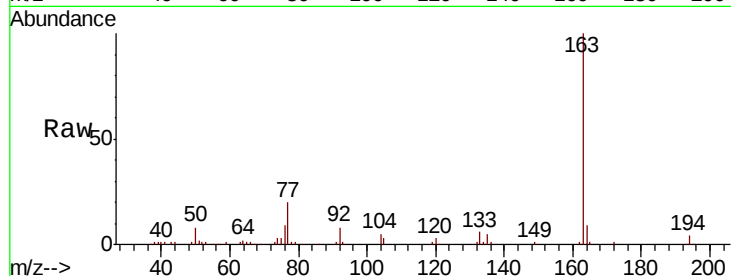
#50  
Dimethylphthalate  
Concen: 5.044 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

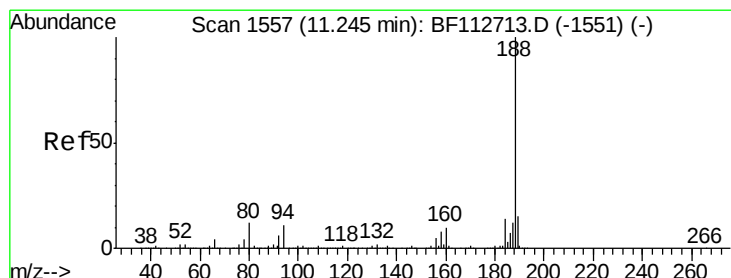
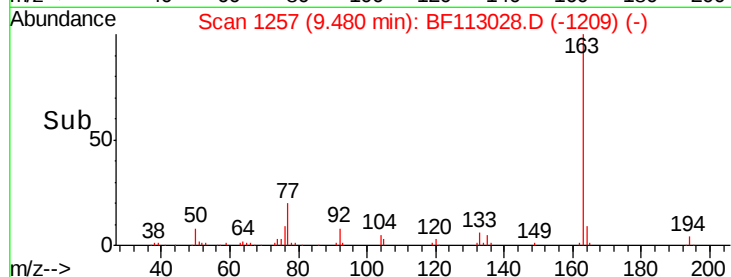
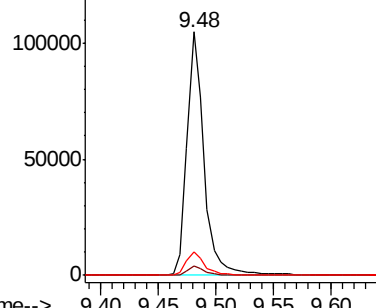
| Tot Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 163     | 100 |       |      |       |       |
| 194     | 3.8 |       | 3.0  | 4.4   |       |
| 164     | 9.5 |       | 8.4  | 12.6  |       |

Manual Integrations  
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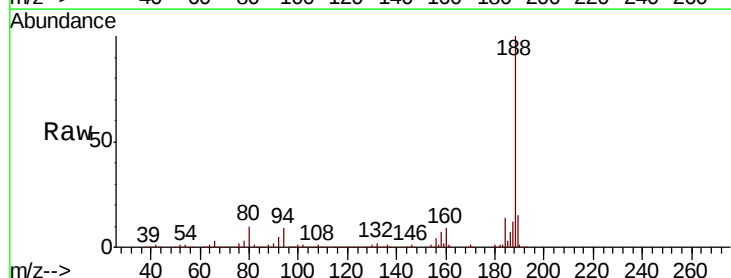


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

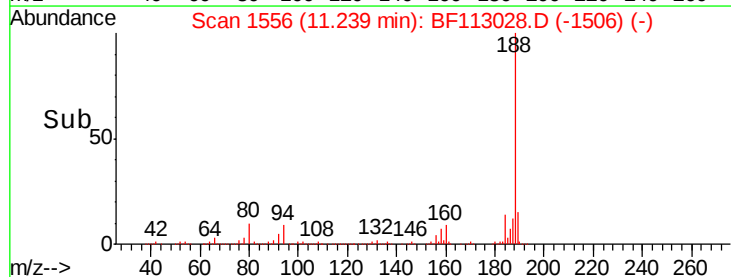
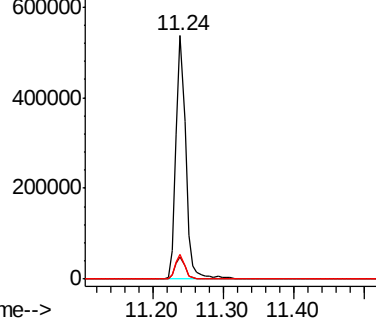


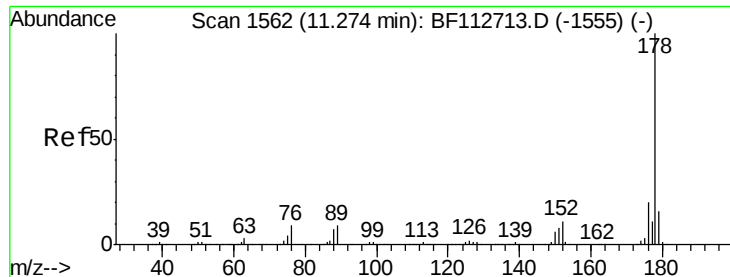
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

| Tgt Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 188     | 100 |       |      |       |       |
| 94      | 9.1 |       | 9.0  | 13.4  |       |
| 80      | 9.9 |       | 9.2  | 13.8  |       |



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





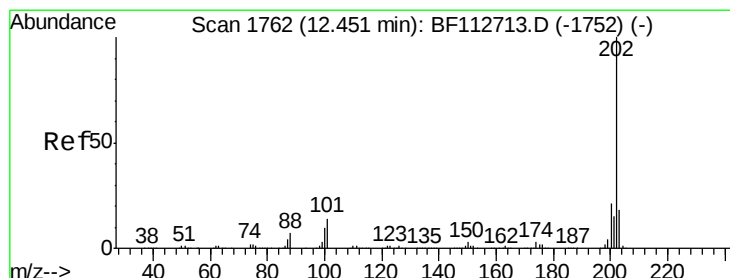
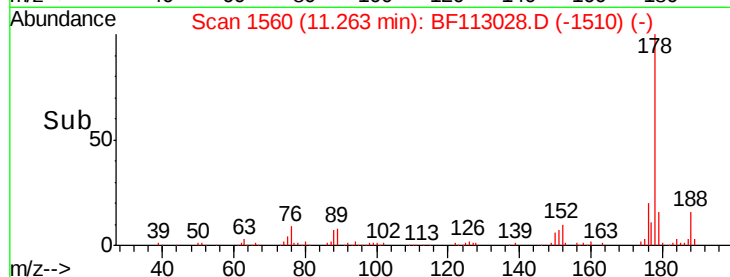
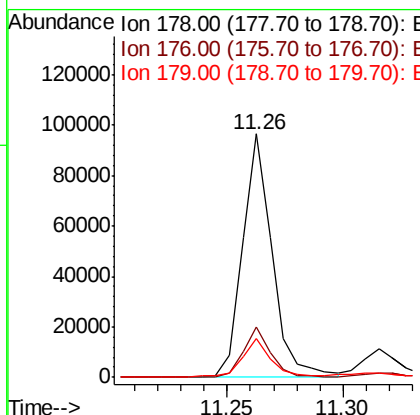
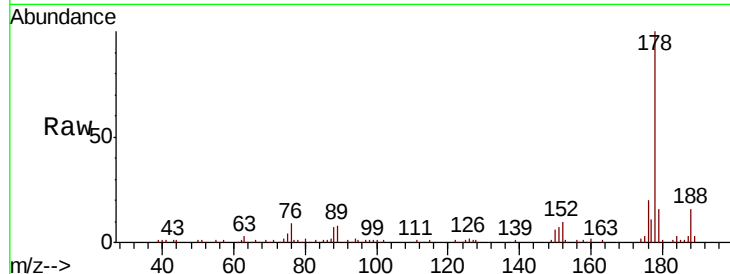
#71  
Phenanthrene  
Concen: 3.338 ng  
RT: 11.26 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.4  | 16.3  | 24.5  |
| 179     | 15.8  | 12.7  | 19.1  |

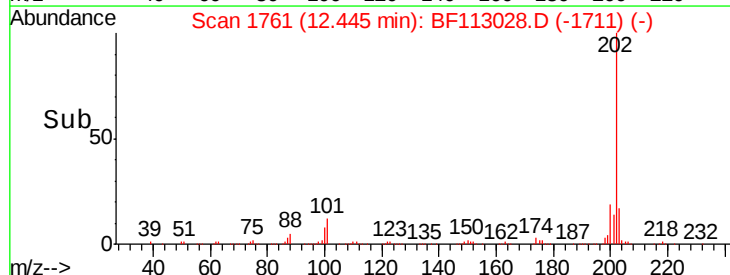
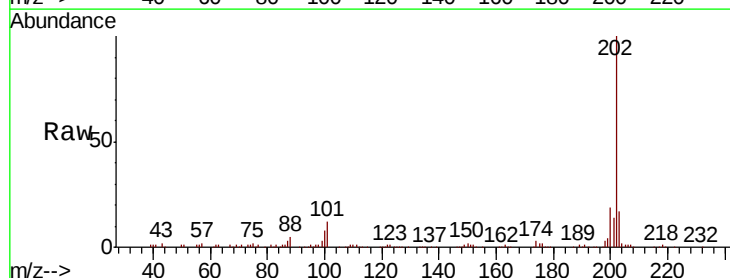
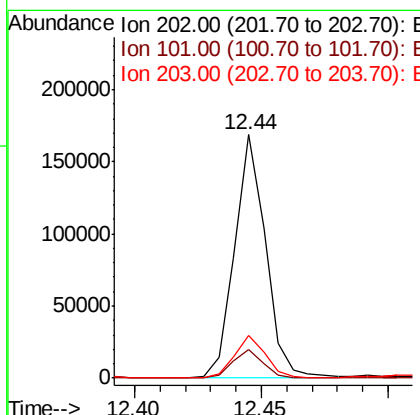
Manual Integrations  
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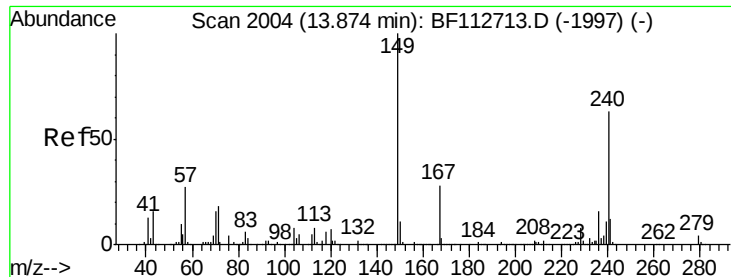
Sohil  
3/13/2019 4:33:43 PM



#75  
Fluoranthene  
Concen: 5.188 ng  
RT: 12.44 min Scan# 1761  
Delta R.T. -0.01 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.7  | 0.0   | 33.8  |
| 203     | 17.5  | 0.0   | 38.4  |





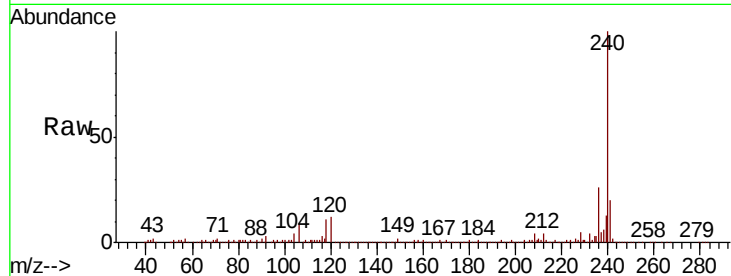
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.86 min Scan# 2002  
Delta R.T. -0.01 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 12.2  | 8.9        | 13.3  |
| 236     | 25.8  | 20.7       | 31.1  |

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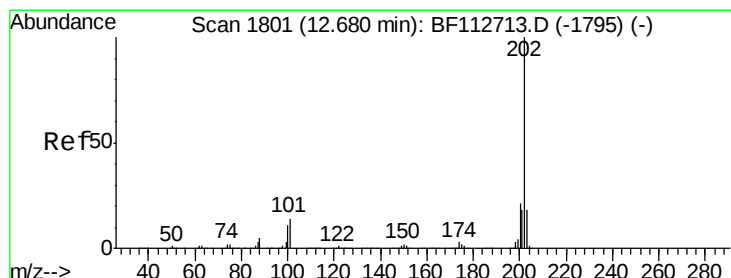
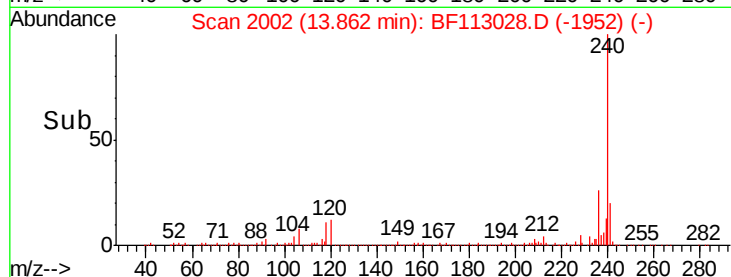
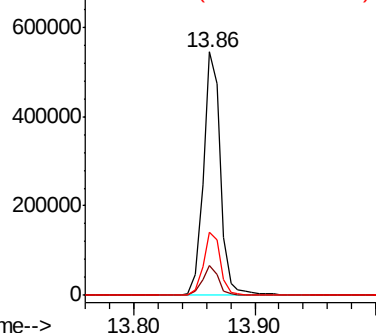


Abundance

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  
Pyrene  
Concen: 4.006 ng  
RT: 12.67 min Scan# 1799  
Delta R.T. -0.01 min  
Lab File: BF113028.D  
Acq: 13 Mar 2019 9:50

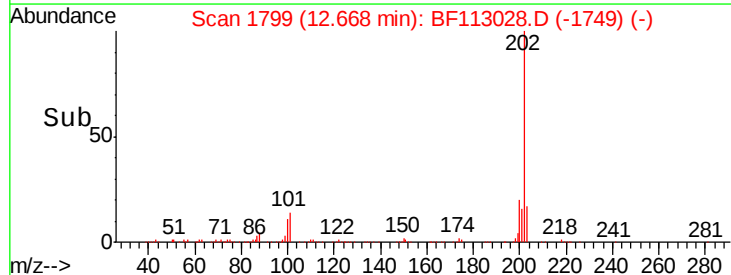
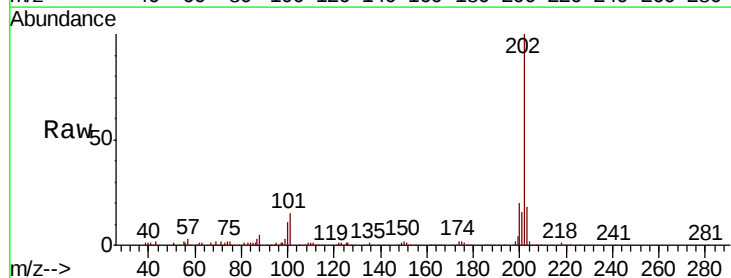
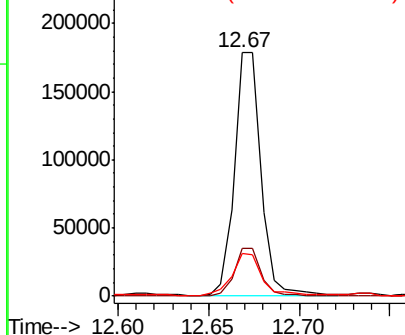
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 19.7  | 17.0       | 25.4  |
| 203     | 17.7  | 14.4       | 21.6  |

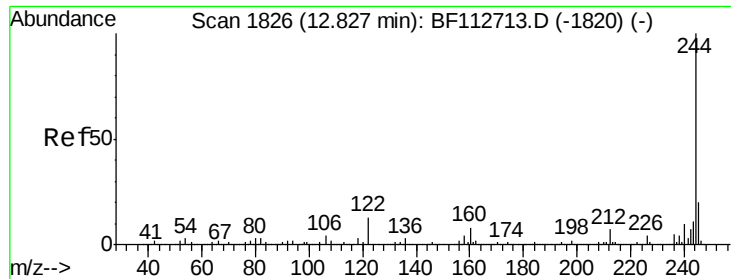
Abundance

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





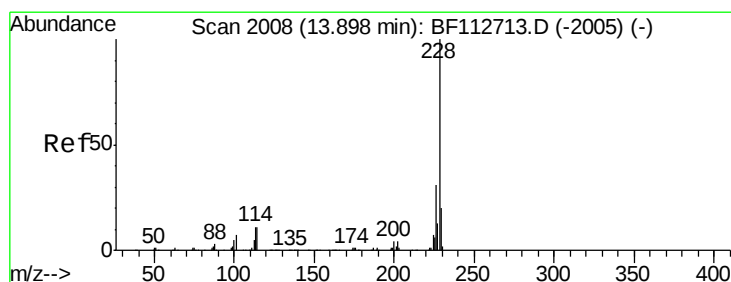
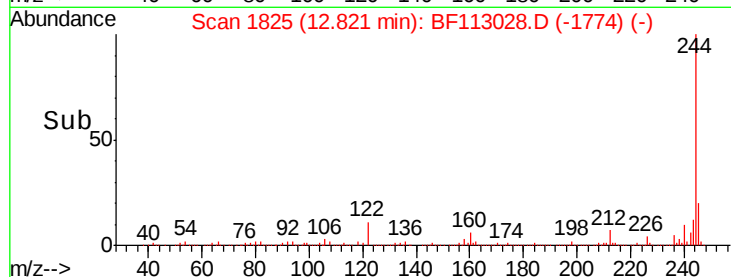
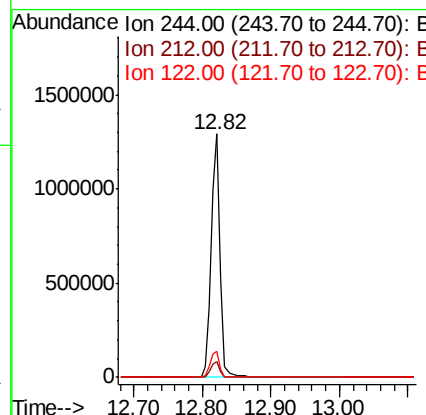
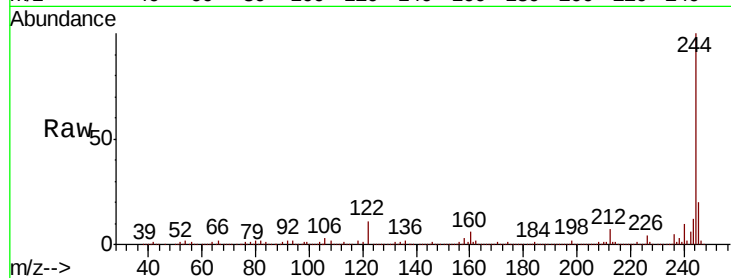
#79  
 Terphenyl-d14  
 Concen: 43.284 ng  
 RT: 12.82 min Scan# 1825  
 Delta R.T. -0.00 min  
 Lab File: BF113028.D  
 Acq: 13 Mar 2019 9:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.6   | 8.4   |
| 122     | 10.6  | 10.5  | 15.7  |

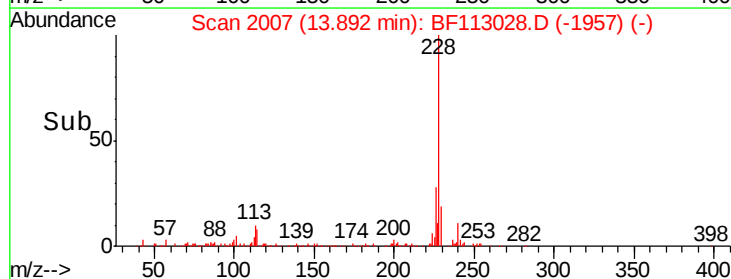
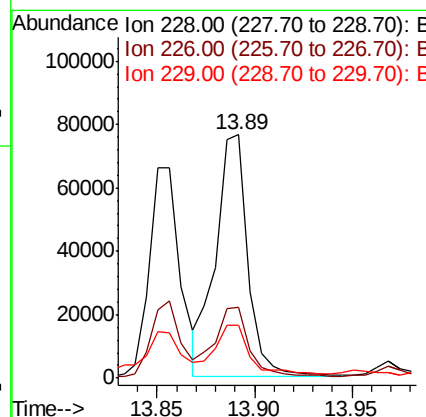
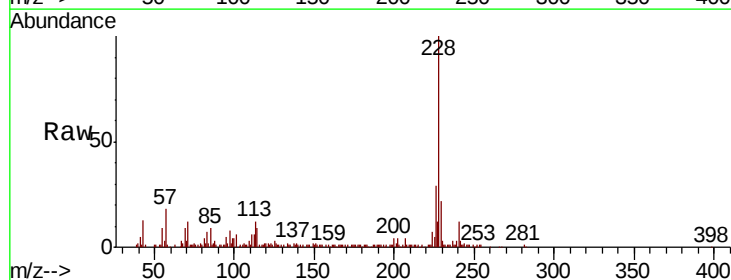
Manual Integrations  
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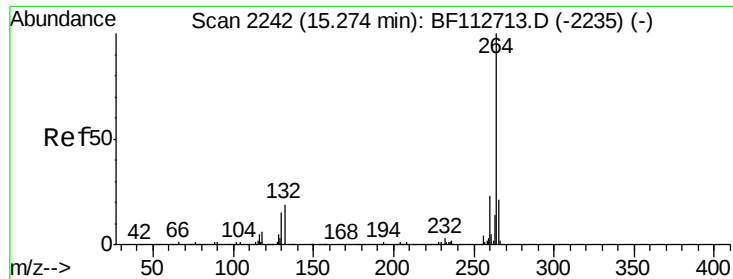
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#83  
 Chrysene  
 Concen: 2.408 ng  
 RT: 13.89 min Scan# 2007  
 Delta R.T. -0.01 min  
 Lab File: BF113028.D  
 Acq: 13 Mar 2019 9:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 24.9  | 37.3  |
| 229     | 21.8  | 16.3  | 24.5  |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2241

Delta R.T. -0.01 min

Lab File: BF113028.D

Acq: 13 Mar 2019 9:50

Instrument :

BNA\_F

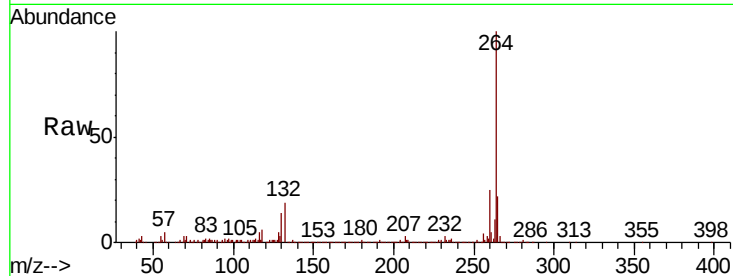
ClientSampleId :

PST-027-B116-030619

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 422764 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.6  | 18.7  | 28.1   |
| 265       | 22.3  | 17.2  | 25.8   |

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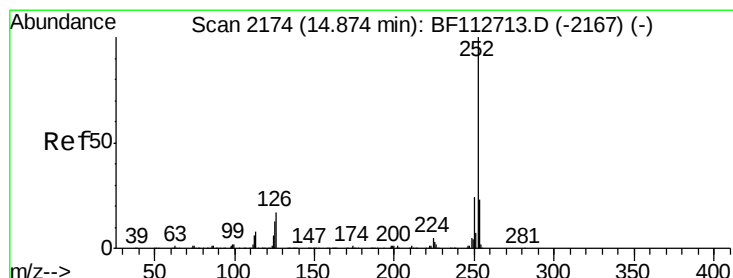
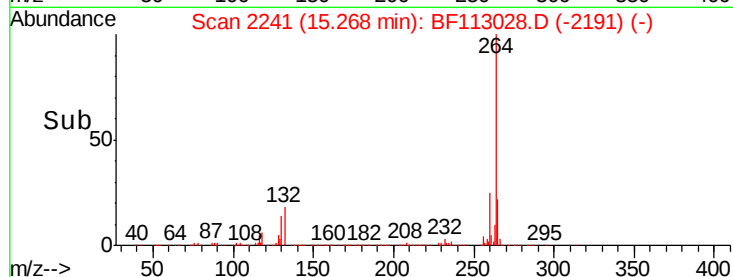
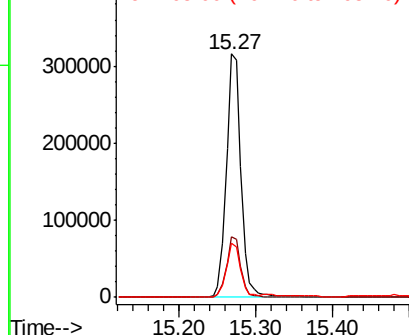


Abundance

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: 2.556 ng m

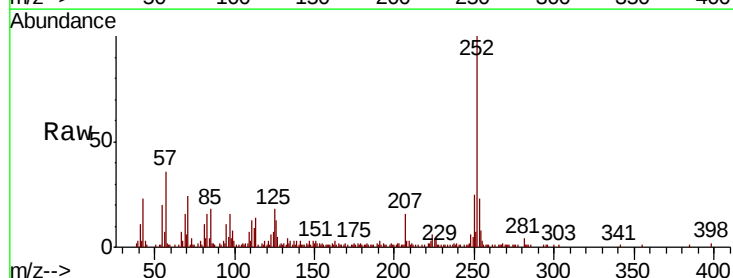
RT: 14.87 min Scan# 2174

Delta R.T. -0.00 min

Lab File: BF113028.D

Acq: 13 Mar 2019 9:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 69899 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.2  | 18.0  | 27.0  |
| 125       | 18.2  | 10.2  | 15.2# |

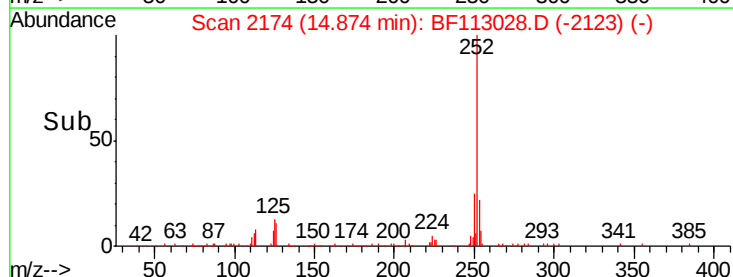
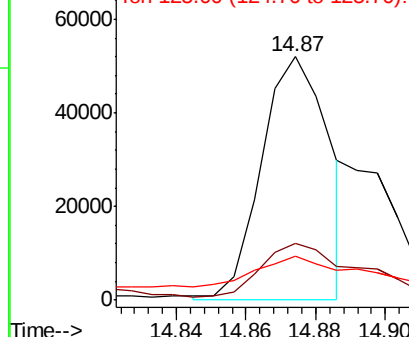


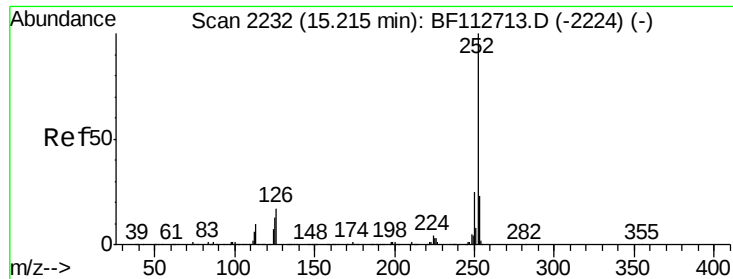
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90  
 Benzo(a)pyrene  
 Concen: 2.137 ng  
 RT: 15.21 min Scan# 2231  
 Delta R.T. -0.01 min  
 Lab File: BF113028.D  
 Acq: 13 Mar 2019 9:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 51699 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.1  | 18.0  | 27.0  |
| 125       | 20.4  | 10.7  | 16.1# |

Manual Integrations  
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