

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122917\  
 Data File : BF101820.D  
 Acq On : 29 Dec 2017 11:13  
 Operator : SJ/JU  
 Sample : I7034-02 10X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TB-01(4-5)

Manual Integrations  
 APPROVED

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 1/2/2018 1:04:55 PM

Quant Time: Dec 29 14:37:05 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 29 13:21:45 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.78  | 152  | 138355   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.06  | 136  | 550251   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.82  | 164  | 234500   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 372070   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.97 | 240  | 226300   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.44 | 264  | 264047   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 84194m   | 9.06   | ng    | 0.03     |
| 7) Phenol-d6                   | 6.45  | 99   | 123797   | 10.71  | ng    | 0.02     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 73361    | 7.42   | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 6370     | 2.82   | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.14  | 172  | 151527   | 10.02  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.89 | 244  | 92180    | 9.82   | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 70) Phenanthrene               | 11.34 | 178  | 93067m   | 4.498  | ng    | Qvalue   |
| 74) Fluoranthene               | 12.53 | 202  | 89135    | 4.104  | ng    | 98       |
| 77) Pyrene                     | 12.77 | 202  | 89441    | 5.266  | ng    | 95       |
| 80) Benzo(a)anthracene         | 13.96 | 228  | 31549    | 2.111  | ng    | # 90     |
| 82) Chrysene                   | 14.00 | 228  | 33024    | 2.341  | ng    | # 93     |
| 83) Bis(2-ethylhexyl)phthalate | 13.92 | 149  | 198175   | 20.360 | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 15.02 | 252  | 43397m   | 2.696  | ng    |          |

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

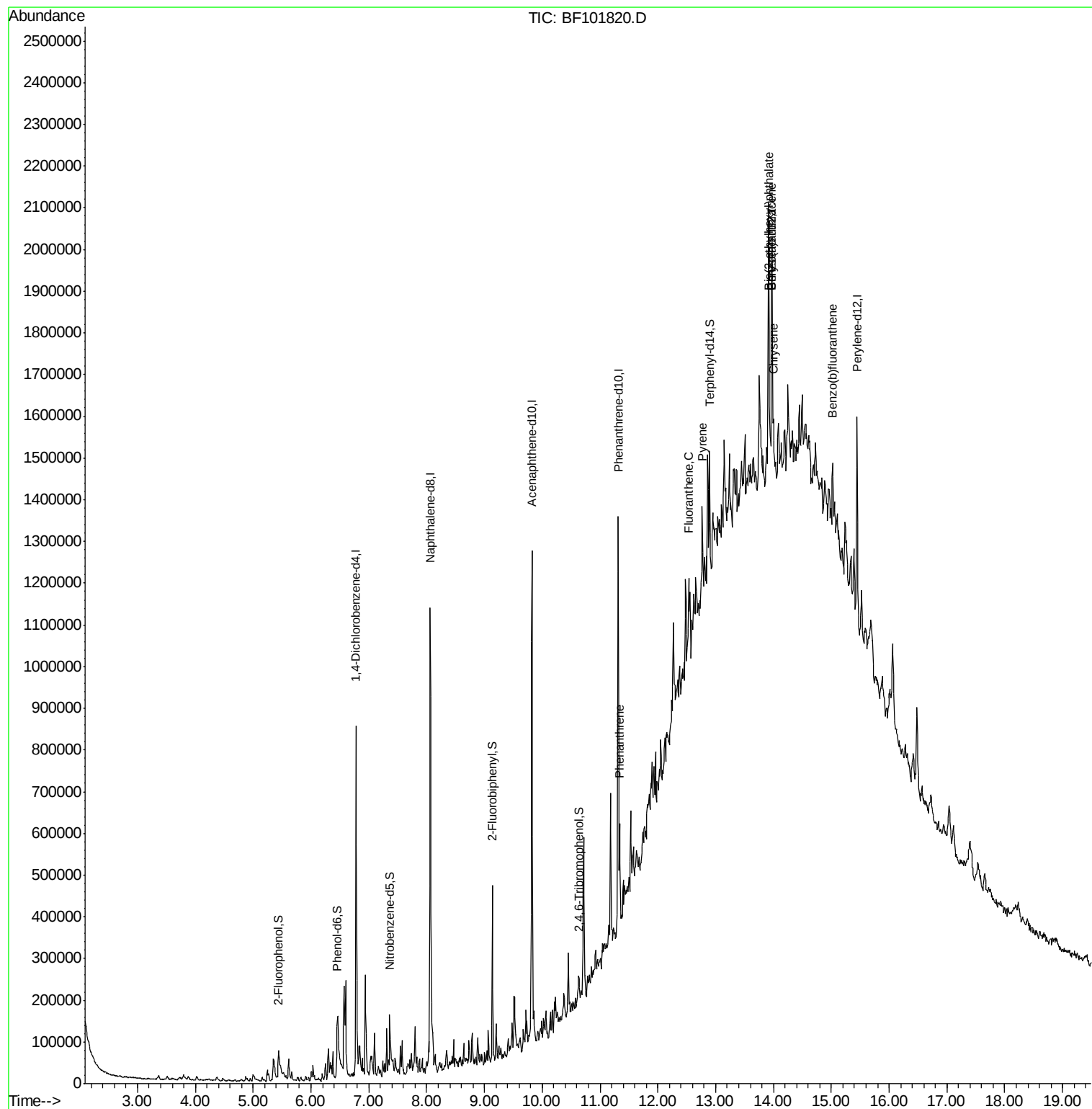
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122917\  
Data File : BF101820.D  
Acq On : 29 Dec 2017 11:13  
Operator : SJ/JU  
Sample : I7034-02 10X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TB-01(4-5)

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Quant Time: Dec 29 14:37:05 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 29 13:21:45 2017  
Response via : Initial Calibration





#1

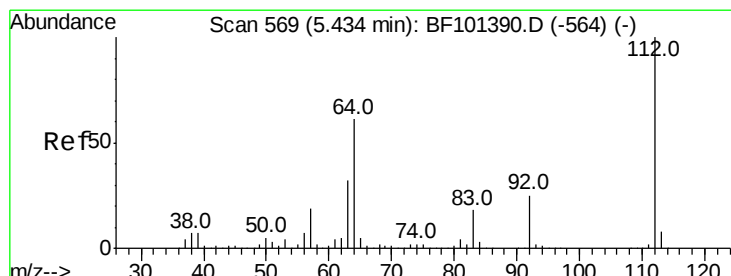
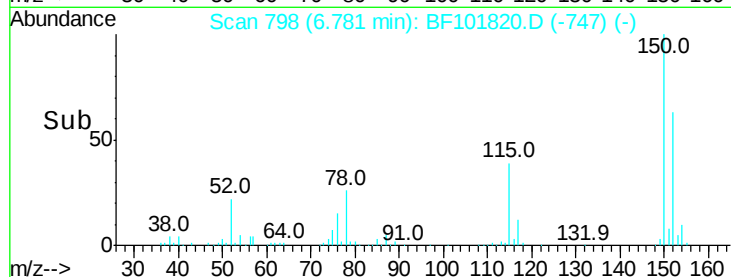
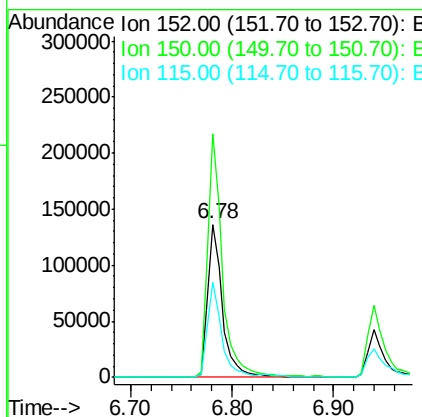
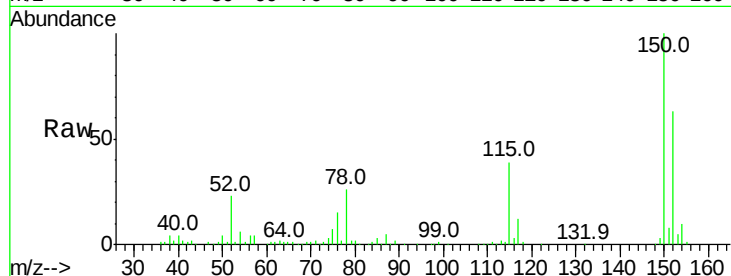
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.78 min Scan# 798  
Delta R.T. 0.00 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

Instrument :  
BNA\_F  
ClientSampled :  
TB-01(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.0 | 124.6 | 186.8 |
| 115     | 61.8  | 50.1  | 75.1  |

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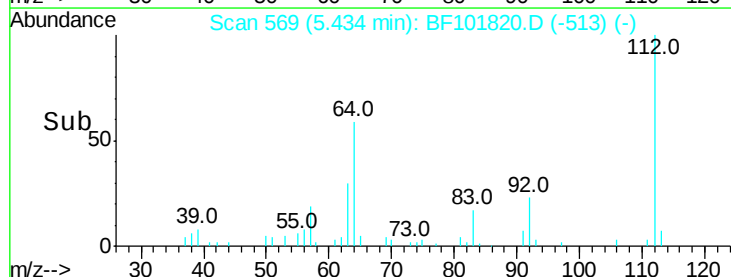
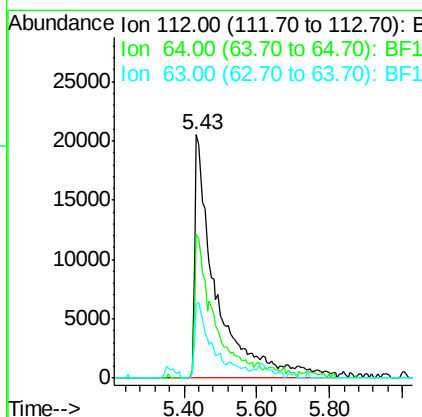
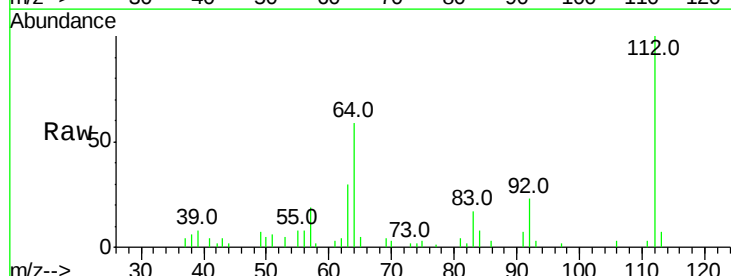
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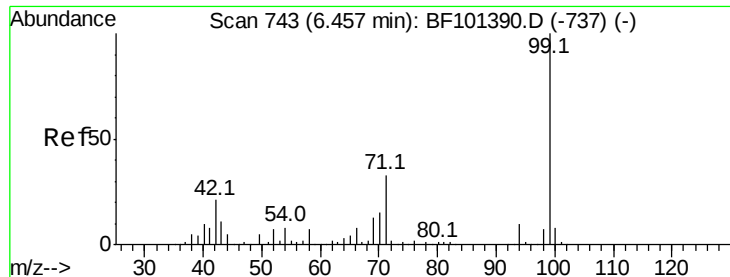


#5

2-Fluorophenol  
Concen: 9.065 ng m  
RT: 5.43 min Scan# 569  
Delta R.T. 0.03 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.3  | 47.9  | 71.9  |
| 63      | 30.3  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 10.710 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.02 min

Lab File: BF101820.D

Acq: 29 Dec 2017 11:13

Instrument :

BNA\_F

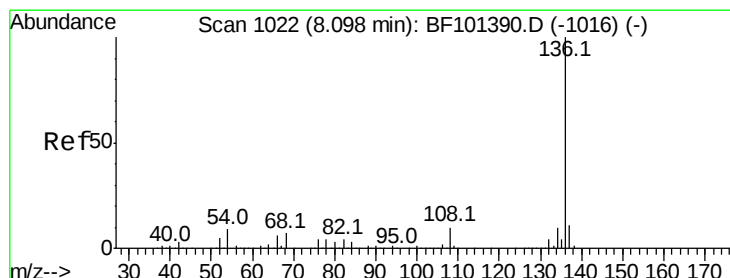
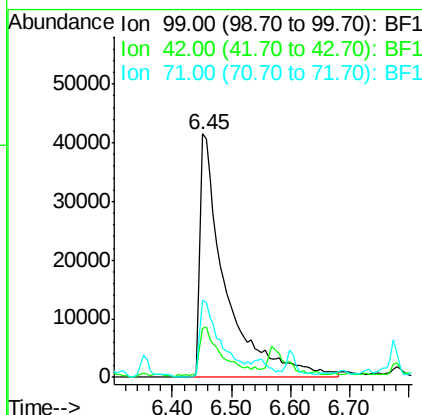
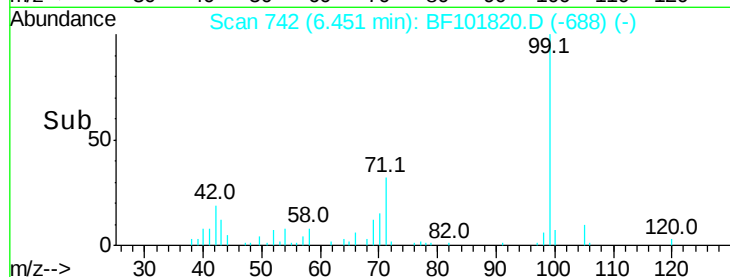
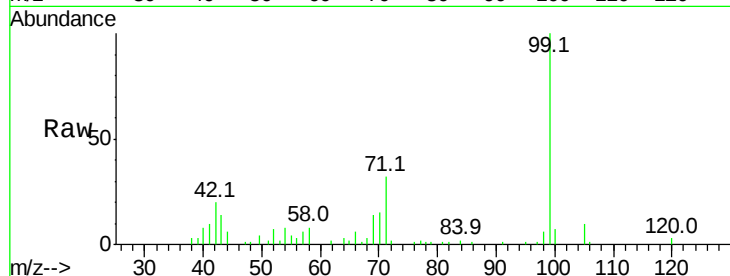
ClientSampled :

TB-01(4-5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 123797 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 20.0  | 14.5  | 21.7   |
| 71        | 31.6  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

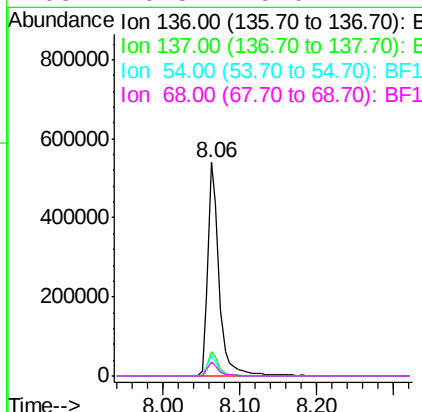
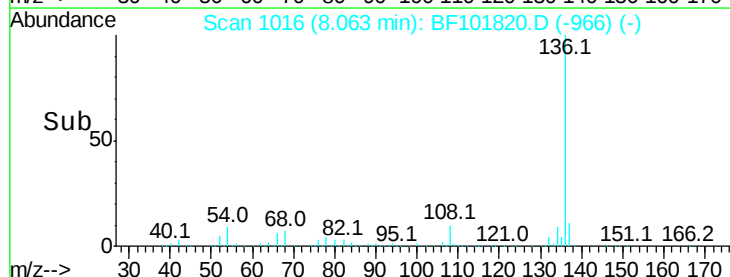
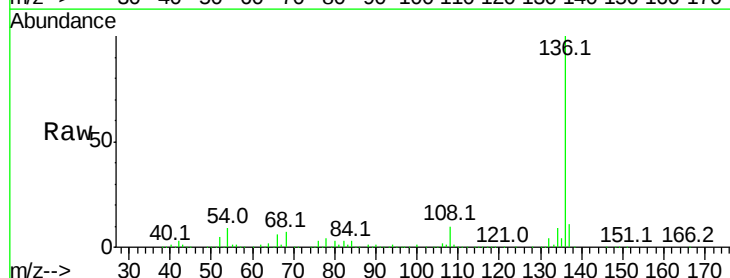
RT: 8.06 min Scan# 1016

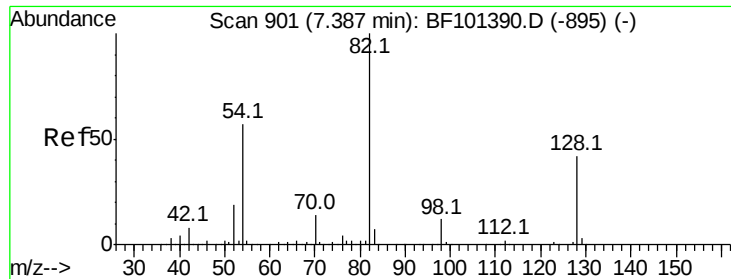
Delta R.T. -0.01 min

Lab File: BF101820.D

Acq: 29 Dec 2017 11:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 550251 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 8.9   | 13.3   |
| 54        | 9.4   | 6.6   | 9.8    |
| 68        | 6.8   | 5.0   | 7.4    |





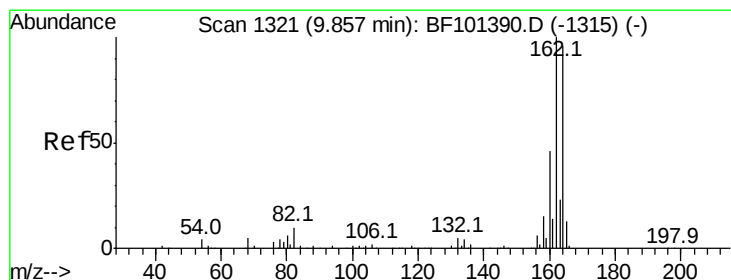
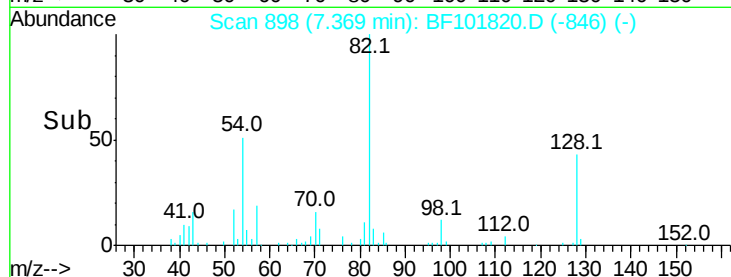
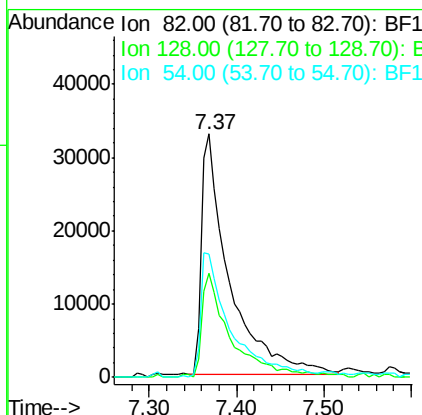
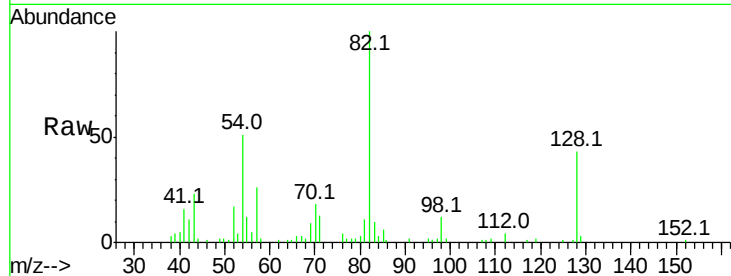
#23  
Nitrobenzene-d5  
Concen: 7.422 ng  
RT: 7.37 min Scan# 898  
Delta R.T. 0.01 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

Instrument :  
BNA\_F  
ClientSampleId :  
TB-01(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.6  | 36.1  | 54.1  |
| 54      | 50.9  | 41.4  | 62.2  |

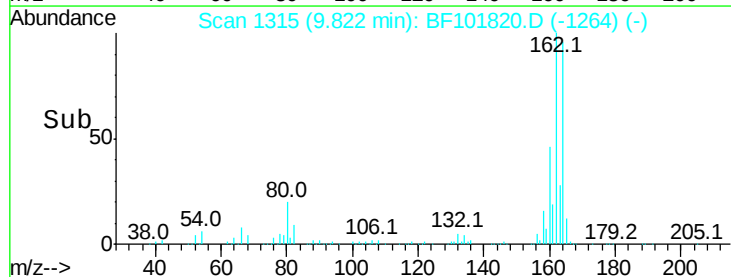
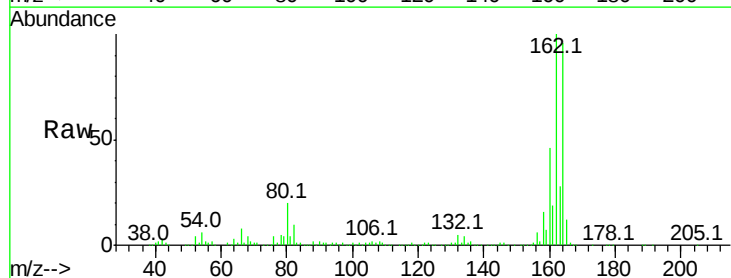
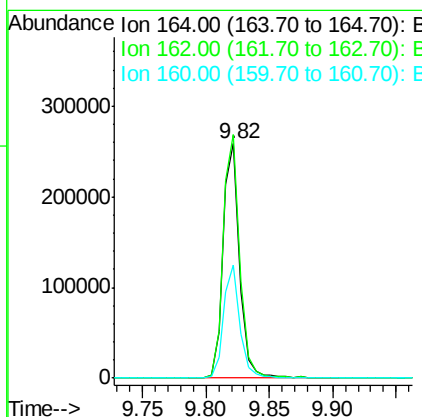
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. 0.00 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.9 | 86.1  | 129.1 |
| 160     | 48.2  | 38.3  | 57.5  |





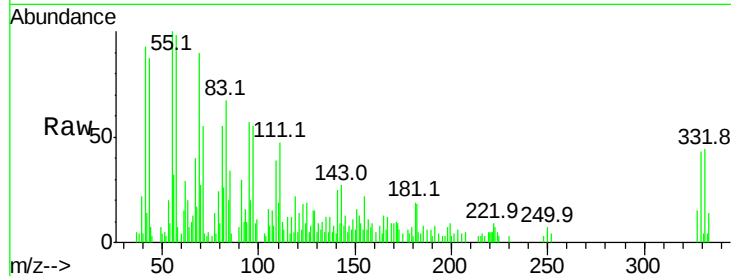
#41  
 2,4,6-Tribromophenol  
 Concen: 2.819 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. 0.01 min  
 Lab File: BF101820.D  
 Acq: 29 Dec 2017 11:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TB-01(4-5)

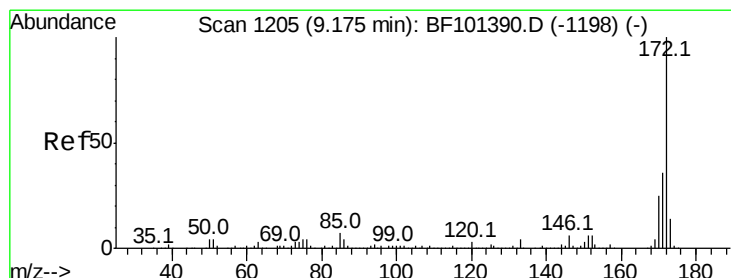
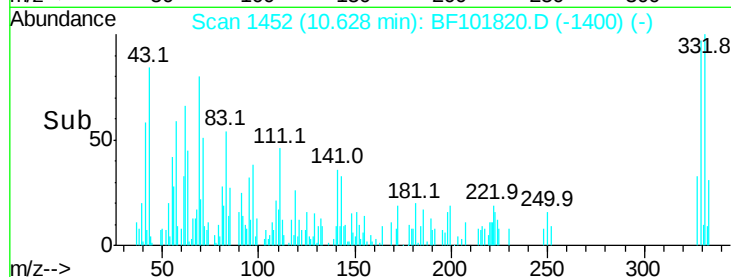
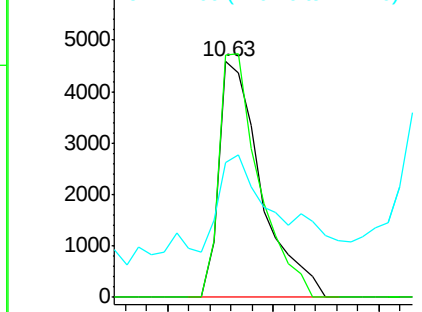
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 77.0  | 115.6 |
| 141     | 54.6  | 29.9  | 44.9  |

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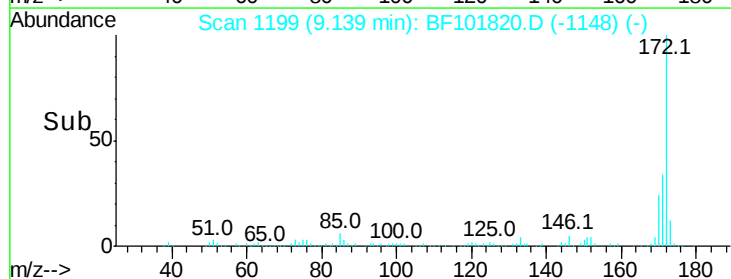
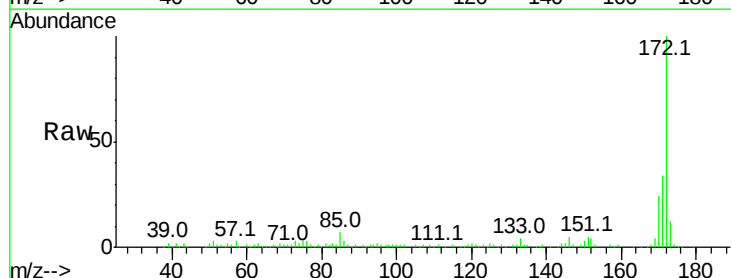
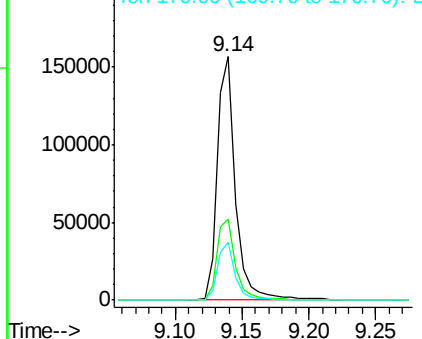
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

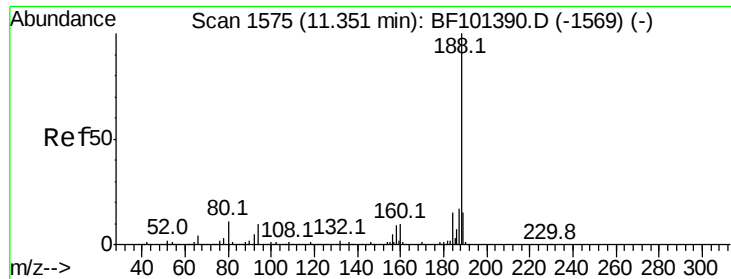


#44  
 2-Fluorobiphenyl  
 Concen: 10.024 ng  
 RT: 9.14 min Scan# 1199  
 Delta R.T. 0.00 min  
 Lab File: BF101820.D  
 Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.5  | 29.7  | 44.5  |
| 170     | 23.6  | 19.6  | 29.4  |

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





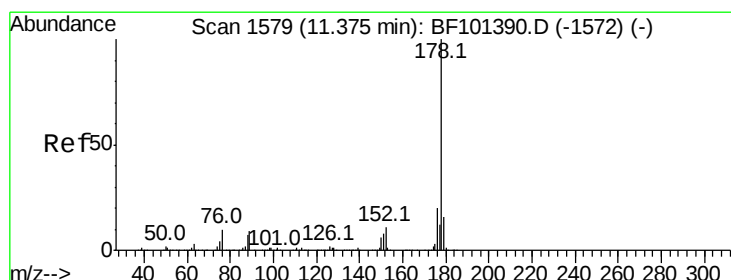
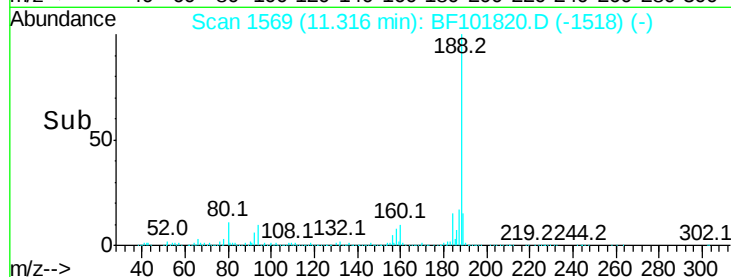
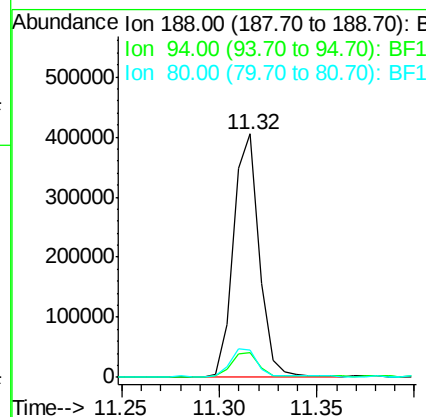
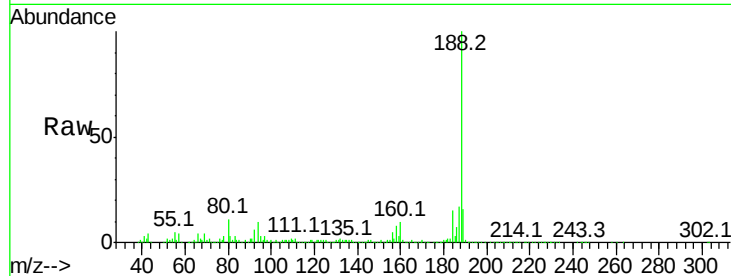
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1569  
Delta R.T. 0.00 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

Instrument :  
BNA\_F  
ClientSampleId :  
TB-01(4-5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.1  | 8.5        | 12.7  |
| 80      | 11.1  | 9.2        | 13.8  |

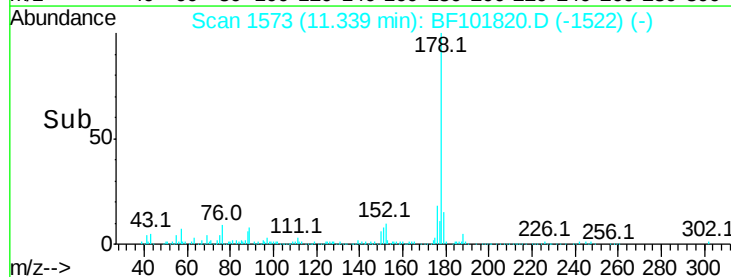
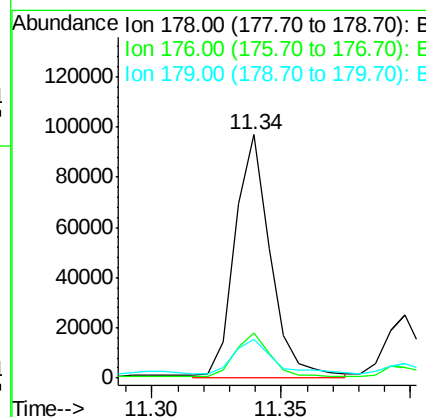
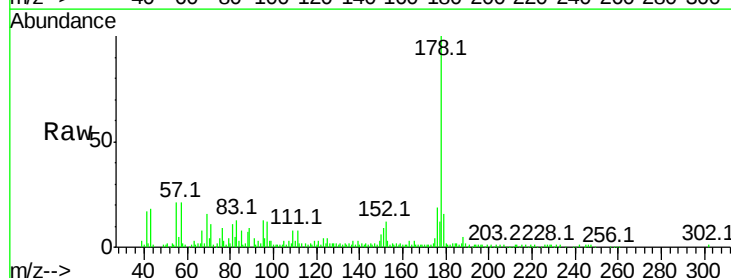
Manual Integrations  
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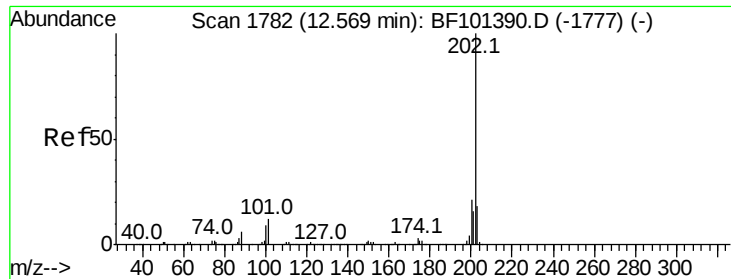
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1/2/2018 1:04:55 PM



#70  
Phenanthrene  
Concen: 4.498 ng m  
RT: 11.34 min Scan# 1573  
Delta R.T. 0.00 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 18.8  | 15.8       | 23.8  |
| 179     | 15.8  | 13.0       | 19.6  |





#74

Fluoranthene

Concen: 4.104 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.00 min

Lab File: BF101820.D

Acq: 29 Dec 2017 11:13

Instrument :

BNA\_F

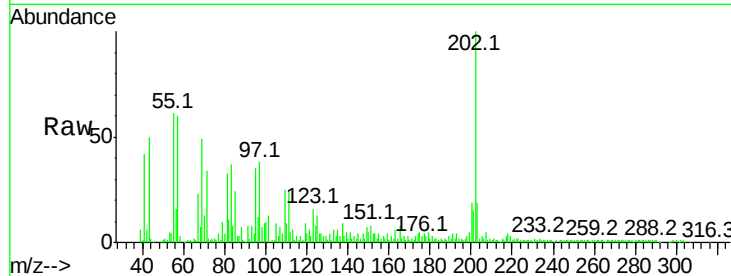
ClientSampleId :

TB-01(4-5)

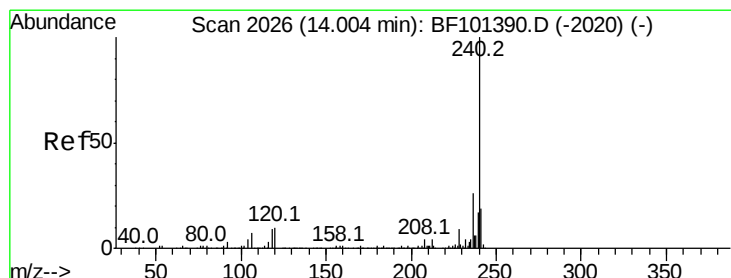
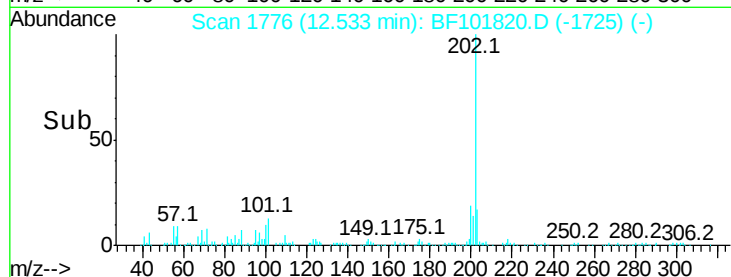
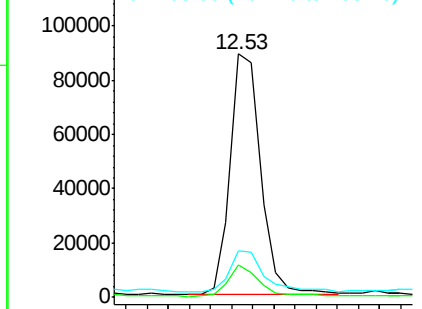
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.2  | 0.0        | 34.1  |
| 203     | 19.1  | 0.0        | 38.1  |

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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



#75

Chrysene-d12

Concen: 20.000 ng

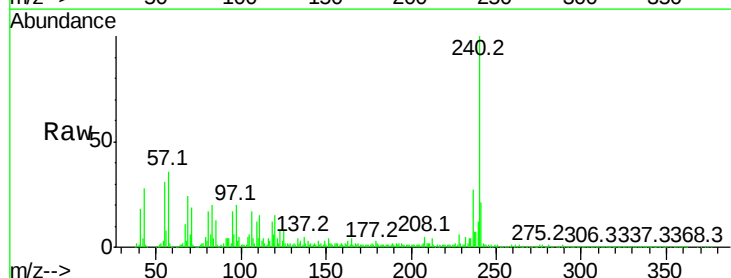
RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

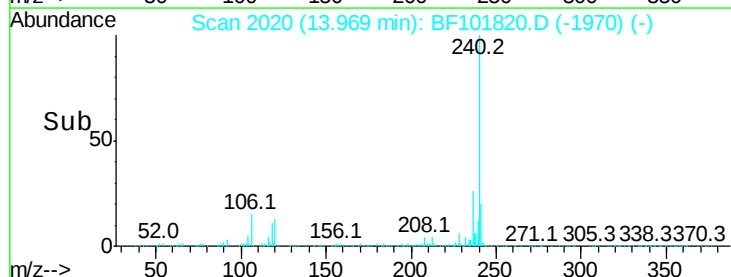
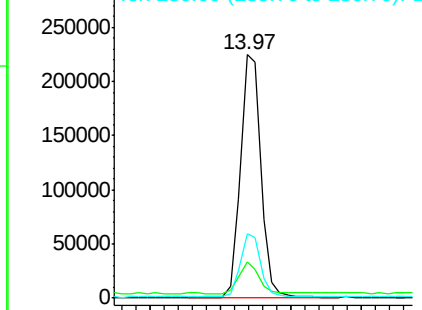
Lab File: BF101820.D

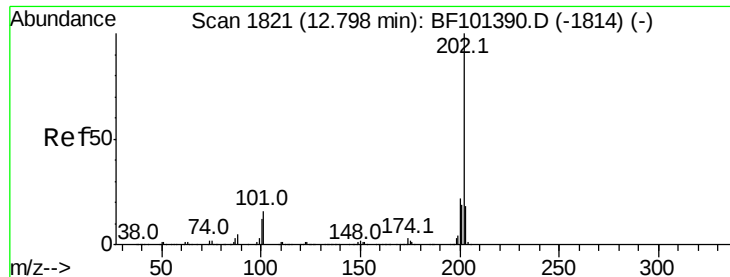
Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 14.8  | 9.5        | 14.3# |
| 236     | 26.6  | 20.7       | 31.1  |



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





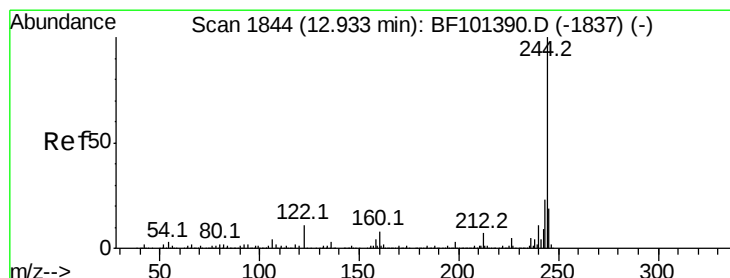
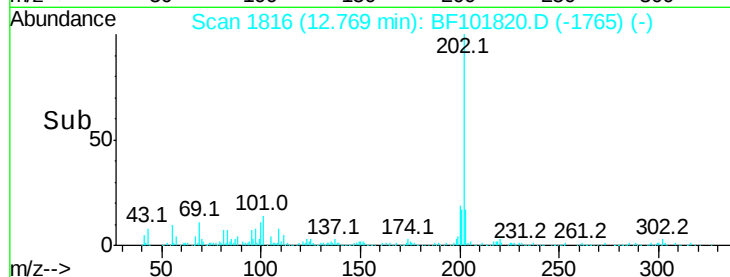
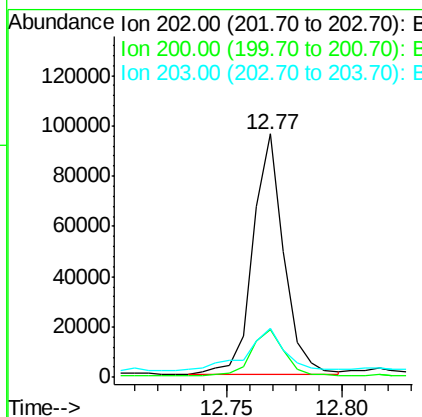
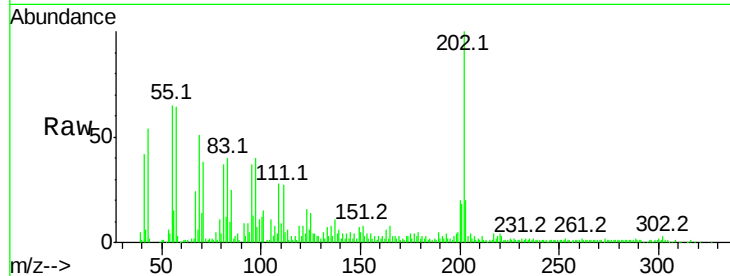
#77  
Pvrene  
Concen: 5.266 ng  
RT: 12.77 min Scan# 1816  
Delta R.T. 0.00 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

Instrument :  
BNA\_F  
ClientSampleId :  
TB-01(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.7  | 17.4  | 26.2  |
| 203     | 20.0  | 14.3  | 21.5  |

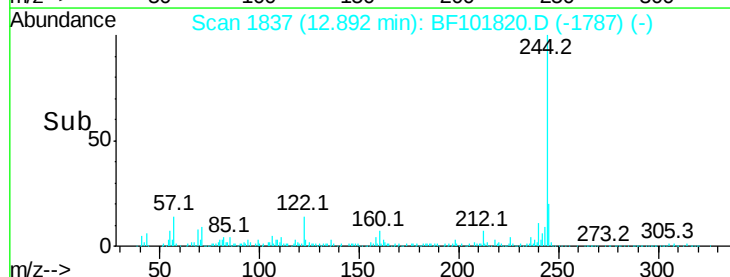
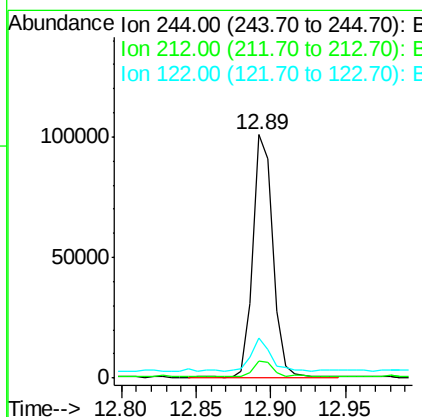
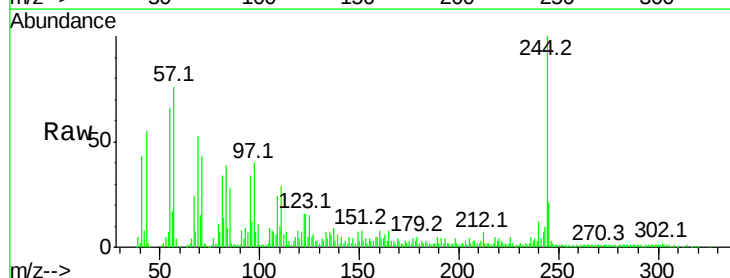
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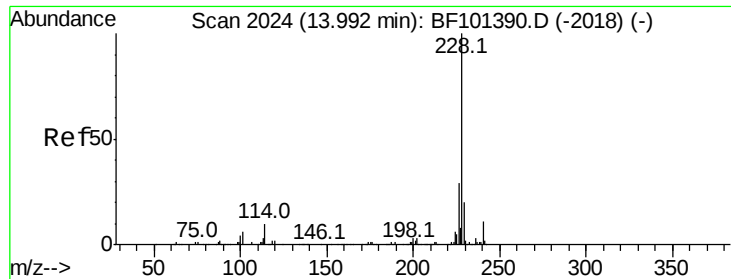
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#78  
Terphenyl-d14  
Concen: 9.820 ng  
RT: 12.89 min Scan# 1837  
Delta R.T. -0.01 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.3   | 5.4   | 8.0   |
| 122     | 16.5  | 11.0  | 16.4  |





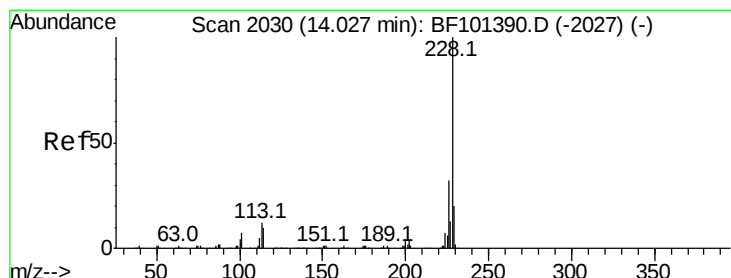
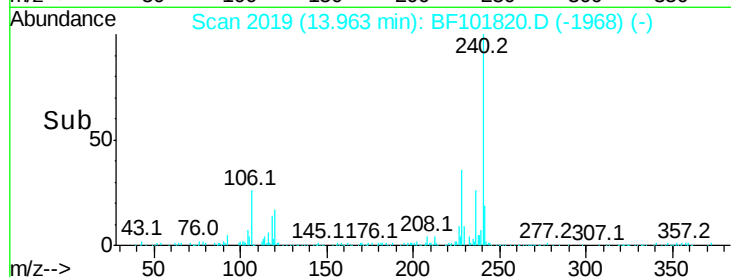
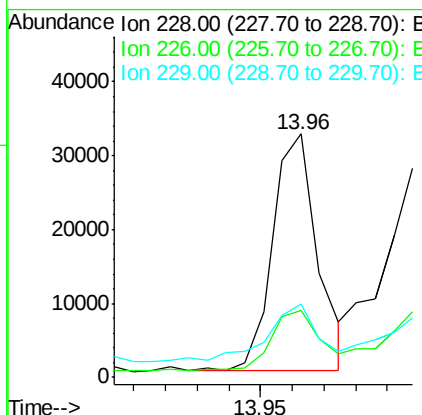
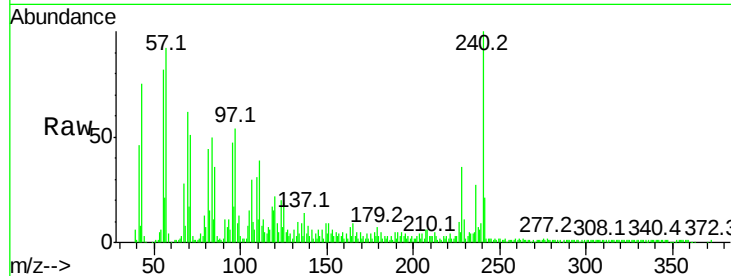
#80  
Benzo(a)anthracene  
Concen: 2.111 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. 0.00 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

Instrument :  
BNA\_F  
ClientSampleId :  
TB-01(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.6  | 22.6  | 33.8  |
| 229     | 30.0  | 15.8  | 23.6  |

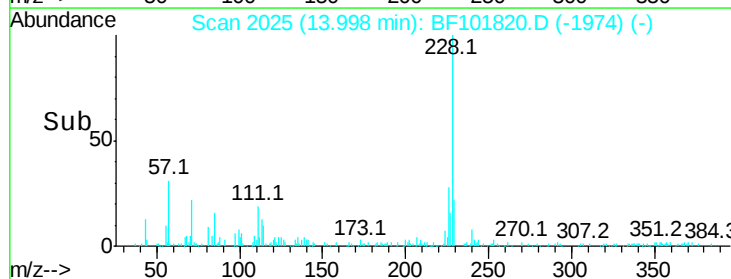
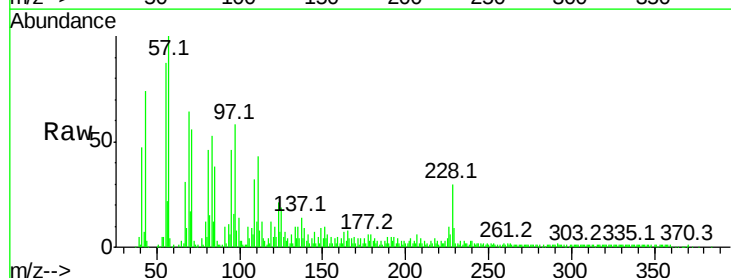
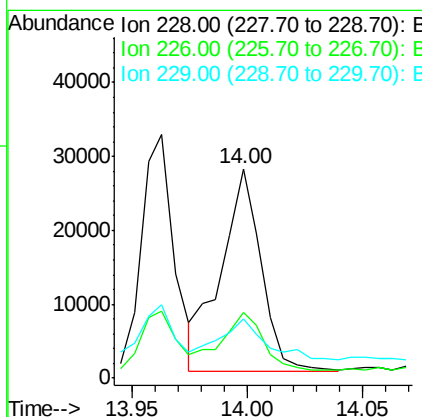
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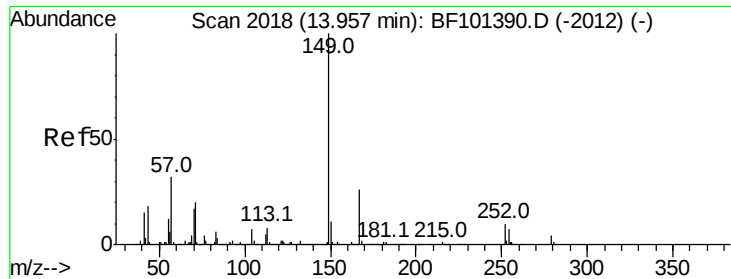
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#82  
Chrysene  
Concen: 2.341 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. 0.00 min  
Lab File: BF101820.D  
Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.6  | 25.0  | 37.6  |
| 229     | 28.3  | 16.2  | 24.4  |





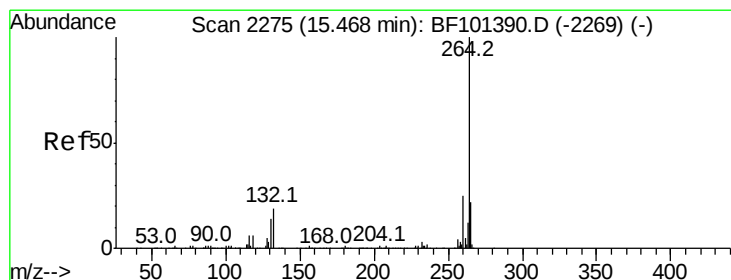
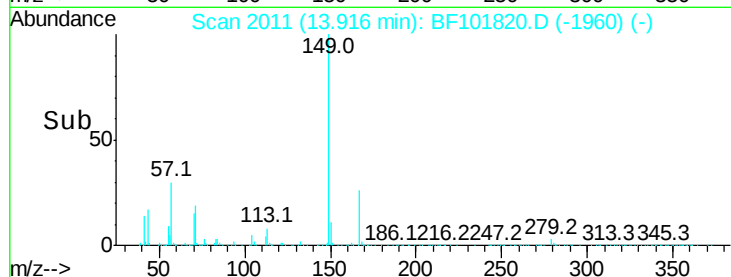
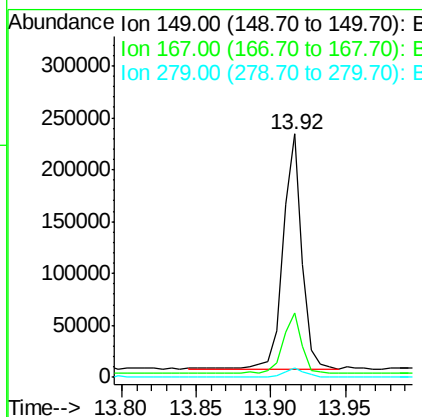
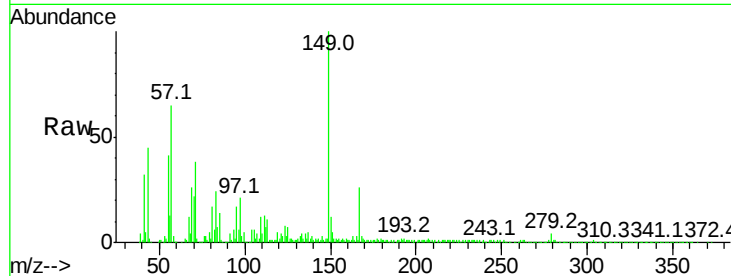
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 20.360 ng  
 RT: 13.92 min Scan# 2011  
 Delta R.T. 0.00 min  
 Lab File: BF101820.D  
 Acq: 29 Dec 2017 11:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TB-01(4-5)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 149     | 100   |      |       |       |
| 167     | 26.2  | 21.3 | 31.9  |       |
| 279     | 3.6   | 3.0  | 4.4   |       |

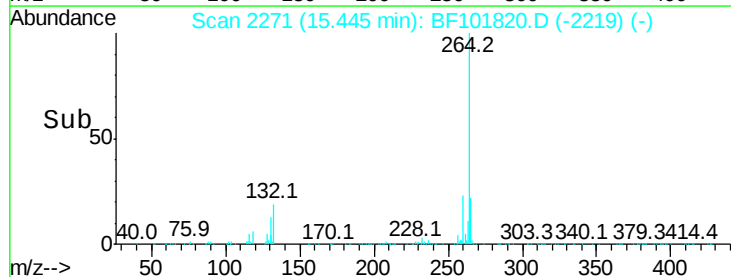
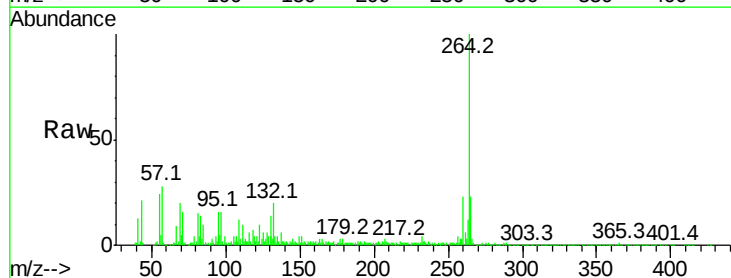
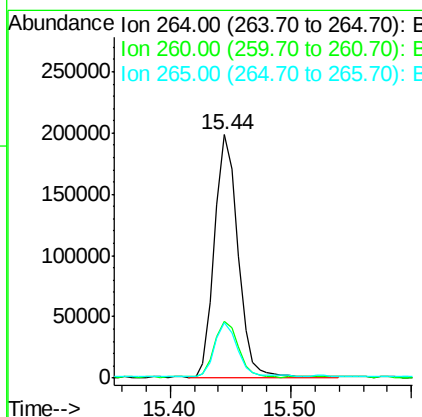
Manual Integrations  
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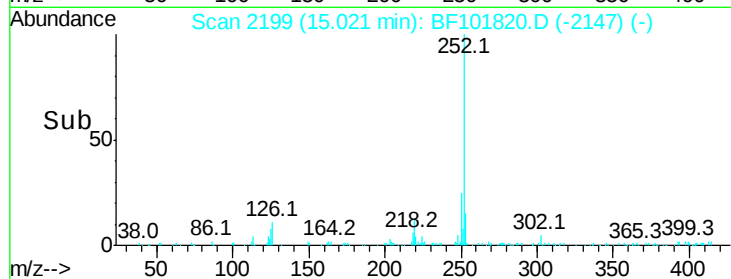
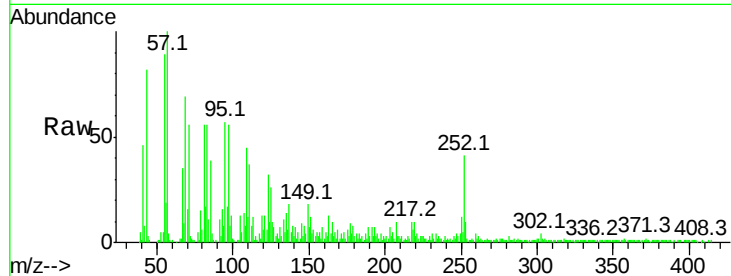
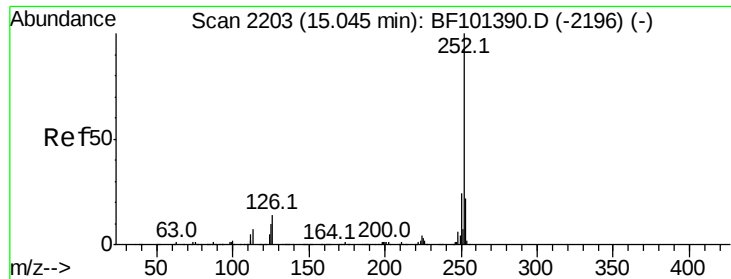
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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.44 min Scan# 2271  
 Delta R.T. 0.01 min  
 Lab File: BF101820.D  
 Acq: 29 Dec 2017 11:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 264     | 100   |      |       |       |
| 260     | 23.5  | 19.2 | 28.8  |       |
| 265     | 22.9  | 17.5 | 26.3  |       |





#87

Benzo(b)fluoranthene

Concen: 2.696 ng/mL

RT: 15.02 min Scan# 2199

Delta R.T. 0.01 min

Lab File: BF101820.D

Acq: 29 Dec 2017 11:13

Instrument :

BNA\_F

ClientSampleId :

TB-01(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 17.0  | 25.6  |
| 125     | 62.1  | 9.0   | 13.6  |

Manual Integrations  
APPROVED

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