

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF031618\  
 Data File : BF103715.D  
 Acq On : 16 Mar 2018 23:47  
 Operator : JU/SJ  
 Sample : J1938-09  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-3

Manual Integrations  
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Sohil  
 3/19/2018 2:02:42 PM

Quant Time: Mar 17 03:56:59 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 15 18:31:53 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.97  | 152  | 169407   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.25  | 136  | 668874   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.01 | 164  | 285420   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.50 | 188  | 406979   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.15 | 240  | 318911   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.69 | 264  | 274790   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.59  | 112  | 1062777  | 95.42  | ng    | 0.01     |
| 7) Phenol-d6                | 6.59  | 99   | 1302126  | 95.56  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 771269   | 80.41  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 227659   | 92.77  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.33  | 172  | 1158801  | 64.76  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.09 | 244  | 808274   | 58.83  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.60  | 94   | 104719   | 7.232  | ng    | 95       |
| 49) Dimethylphthalate       | 9.72  | 163  | 152591   | 7.007  | ng    | 99       |
| 70) Phenanthrene            | 11.53 | 178  | 62454    | 2.805  | ng    | 97       |
| 74) Fluoranthene            | 12.72 | 202  | 201963   | 8.806  | ng    | 99       |
| 77) Pyrene                  | 12.95 | 202  | 202476   | 8.645  | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.14 | 228  | 133886   | 6.632  | ng    | 96       |
| 82) Chrysene                | 14.18 | 228  | 129028   | 6.705  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.25 | 276  | 69870    | 4.158  | ng    | # 93     |
| 87) Benzo(b)fluoranthene    | 15.23 | 252  | 186201m  | 10.726 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.26 | 252  | 54562m   | 3.270  | ng    |          |
| 89) Benzo(a)pyrene          | 15.62 | 252  | 121688   | 7.728  | ng    | 98       |
| 91) Benzo(a,h,i)perylene    | 17.73 | 276  | 66549    | 5.017  | ng    | 96       |

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

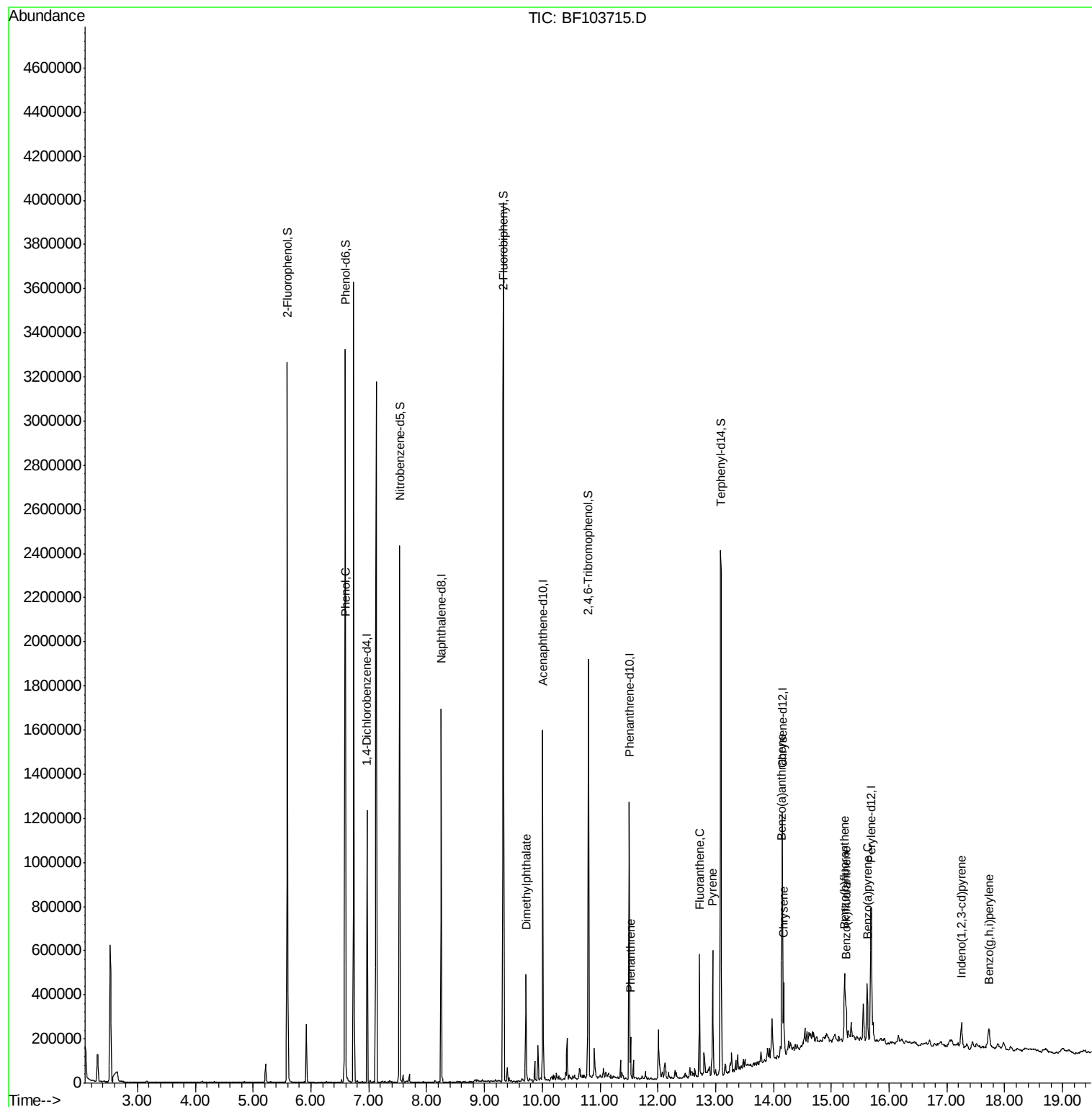
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF031618\  
Data File : BF103715.D  
Acq On : 16 Mar 2018 23:47  
Operator : JU/SJ  
Sample : J1938-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

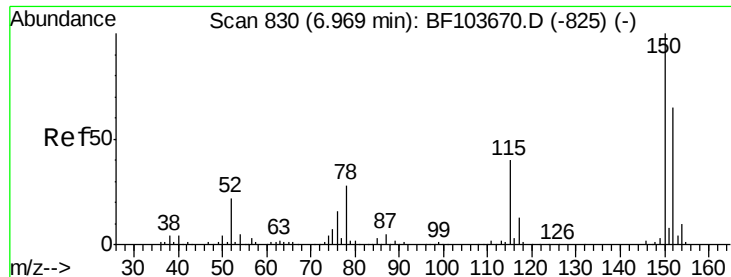
Instrument :  
BNA\_F  
ClientSampleId :  
CS-3

Manual Integrations  
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3/19/2018 2:02:42 PM

Quant Time: Mar 17 03:56:59 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 15 18:31:53 2018  
Response via : Initial Calibration





#1

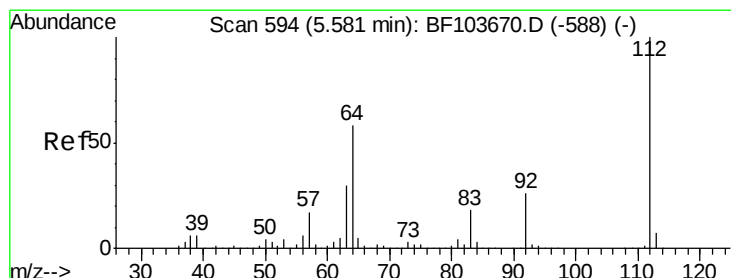
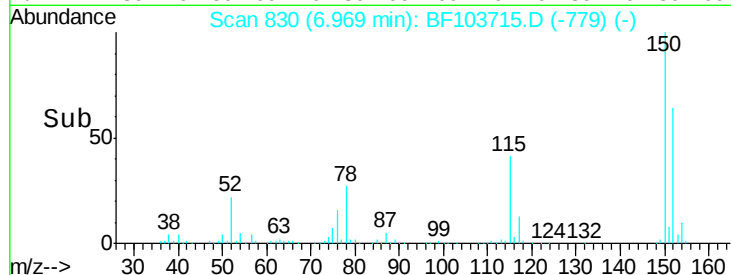
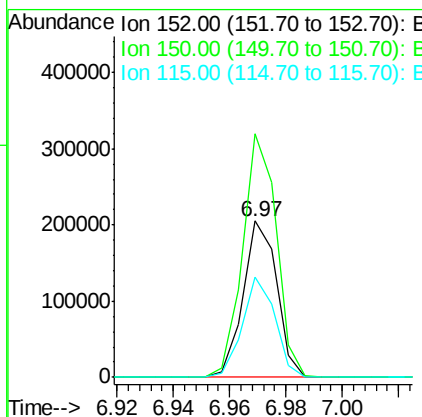
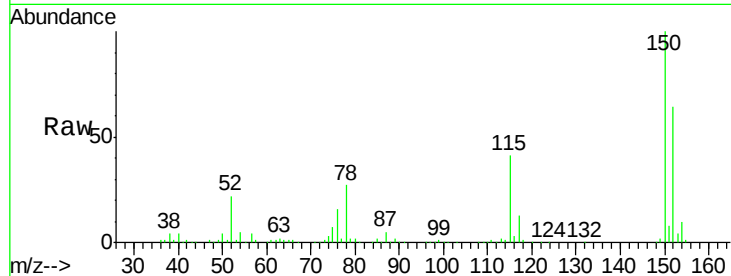
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 830  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampled :  
CS-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 124.6 | 186.8 |
| 115     | 64.5  | 50.1  | 75.1  |

Manual Integrations  
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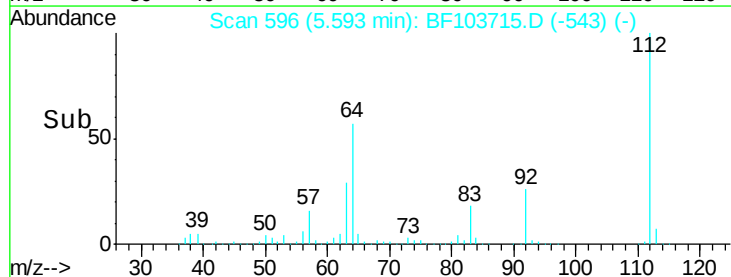
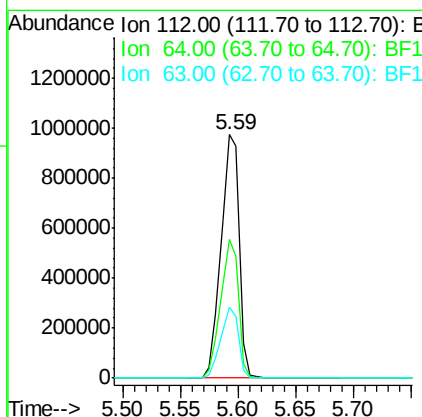
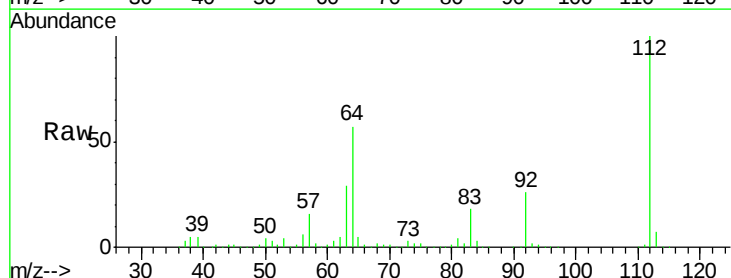
Sohil  
3/19/2018 2:02:42 PM

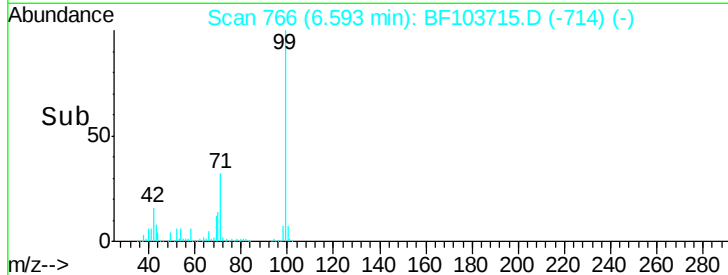
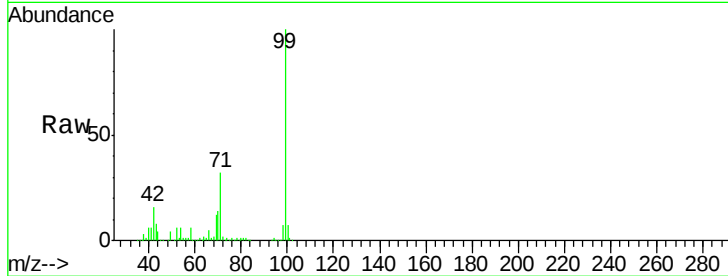
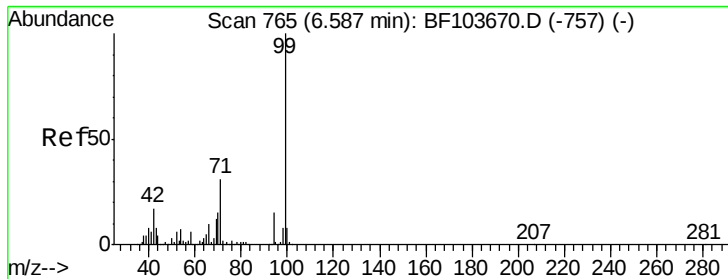


#5

2-Fluorophenol  
Concen: 95.420 ng  
RT: 5.59 min Scan# 596  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.9  | 47.9  | 71.9  |
| 63      | 28.9  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 95.559 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.01 min

Lab File: BF103715.D

Acq: 16 Mar 2018 23:47

Tot Ion: 99 Resp: 1302126

Ion Ratio Lower Upper

99 100

42 16.0 14.5 21.7

71 32.0 25.4 38.0

Instrument :

BNA\_F

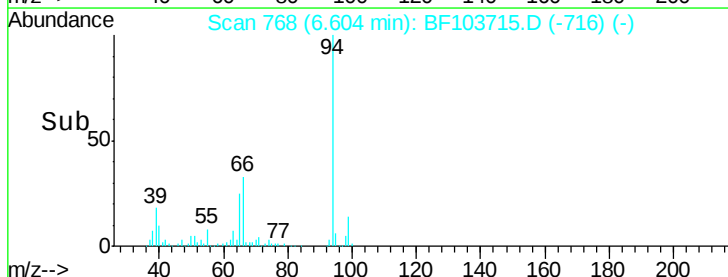
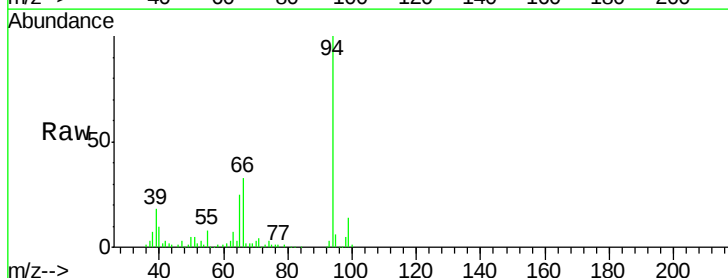
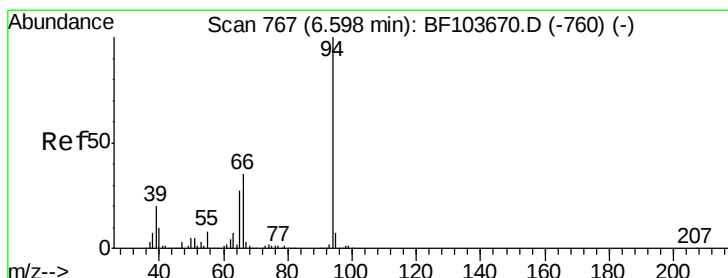
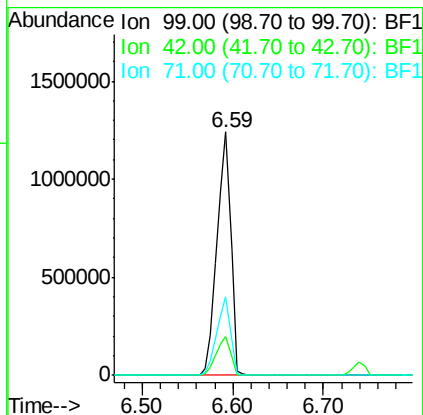
ClientSampled :

CS-3

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#10

Phenol

Concen: 7.232 ng

RT: 6.60 min Scan# 768

Delta R.T. 0.01 min

Lab File: BF103715.D

Acq: 16 Mar 2018 23:47

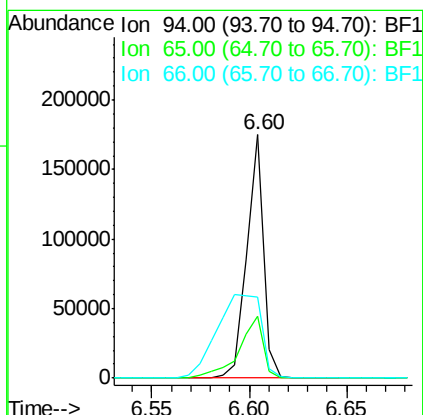
Tgt Ion: 94 Resp: 104719

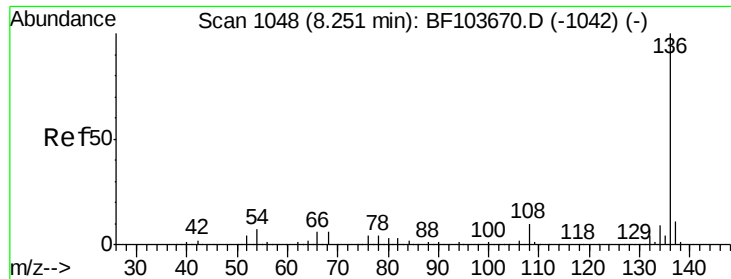
Ion Ratio Lower Upper

94 100

65 25.5 7.9 47.9

66 33.3 16.2 56.2





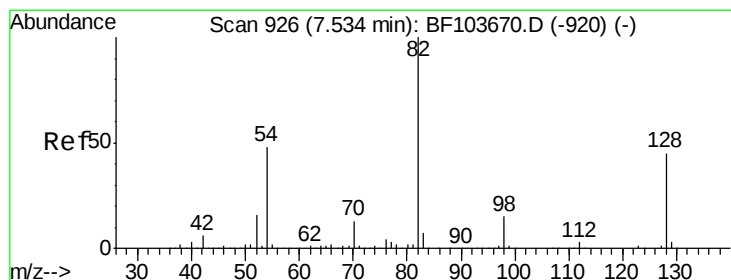
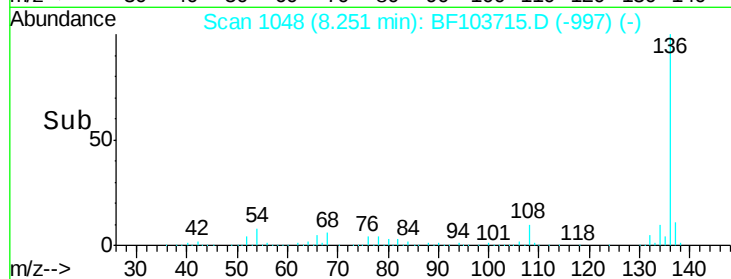
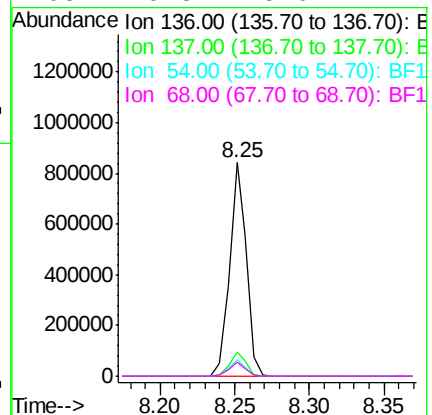
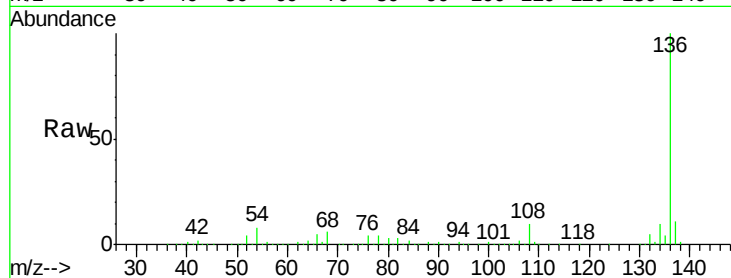
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1048  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampleId :  
CS-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.4  | 8.9   | 13.3  |
| 54      | 7.5   | 6.6   | 9.8   |
| 68      | 6.3   | 5.0   | 7.4   |

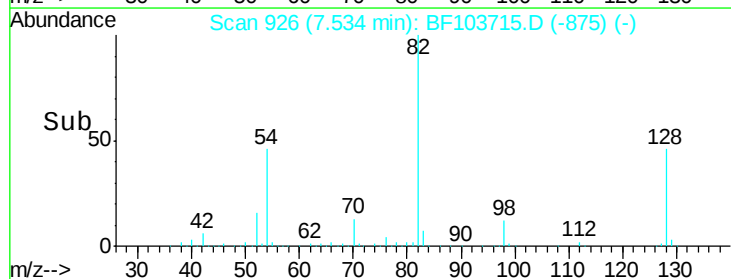
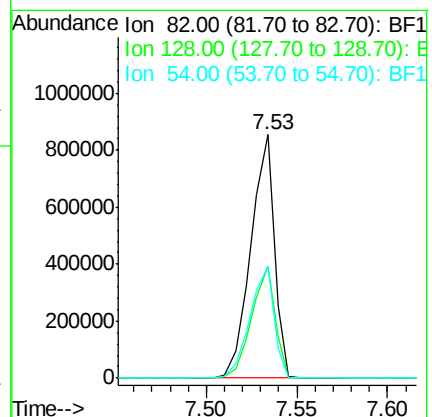
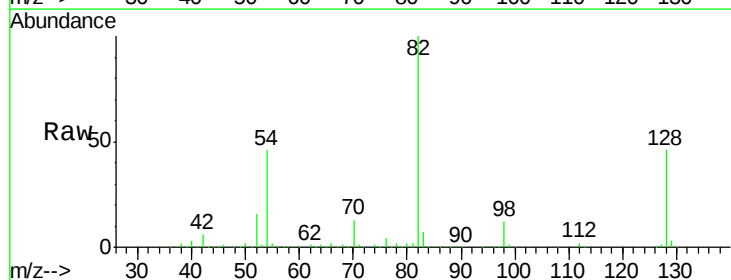
Manual Integrations  
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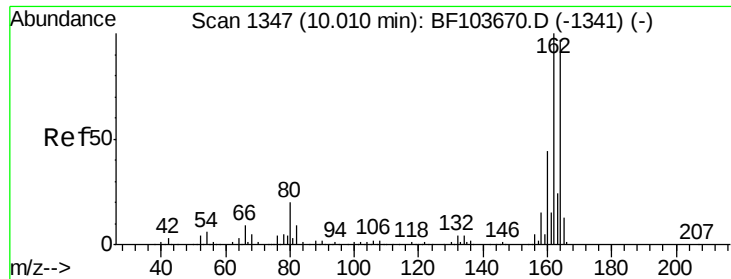
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#23  
Nitrobenzene-d5  
Concen: 80.411 ng  
RT: 7.53 min Scan# 926  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.0  | 36.1  | 54.1  |
| 54      | 45.9  | 41.4  | 62.2  |





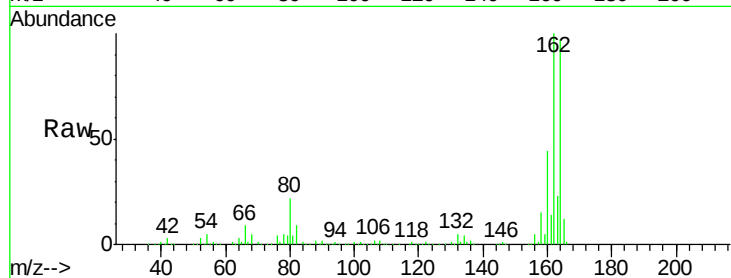
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampled :  
CS-3

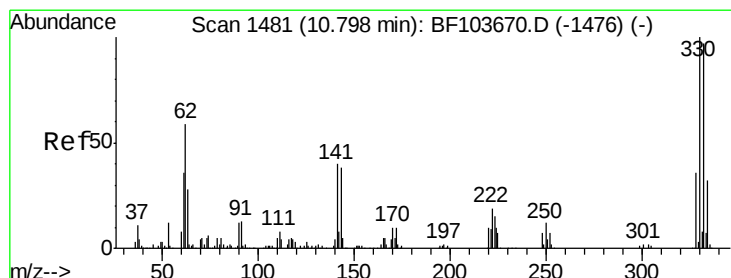
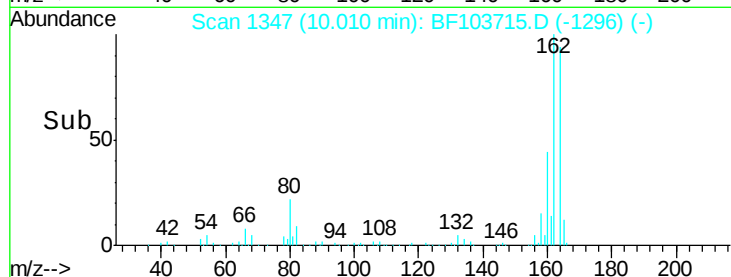
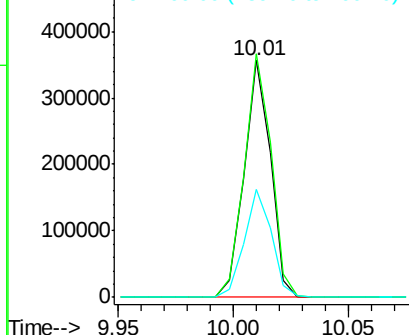
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 285420 |       |       |
| 162     | 102.9 | 86.1   | 129.1 |       |
| 160     | 45.4  | 38.3   | 57.5  |       |

Manual Integrations  
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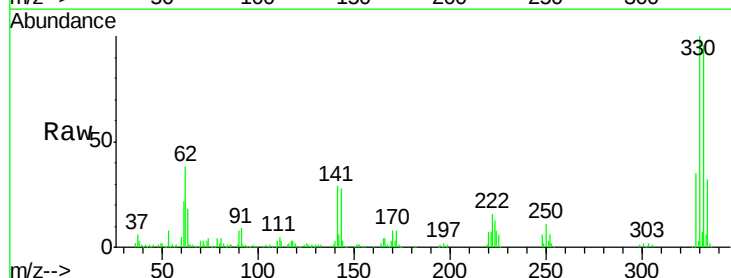


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

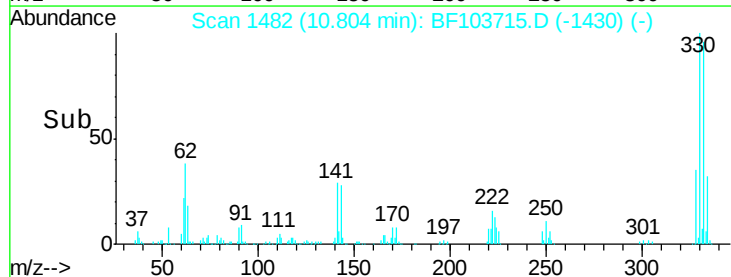
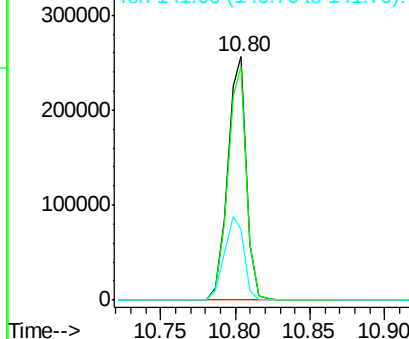


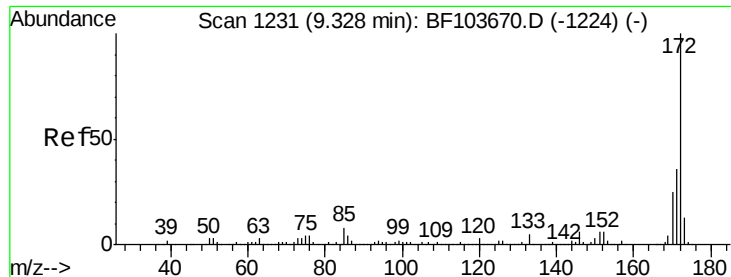
#41  
2,4,6-Tribromophenol  
Concen: 92.768 ng  
RT: 10.80 min Scan# 1482  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 227659 |       |       |
| 332     | 96.2  | 77.0   | 115.6 |       |
| 141     | 36.6  | 29.9   | 44.9  |       |



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





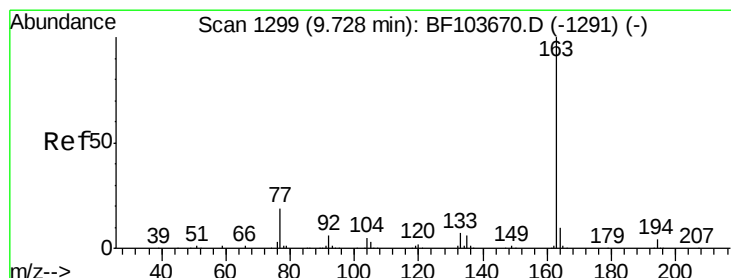
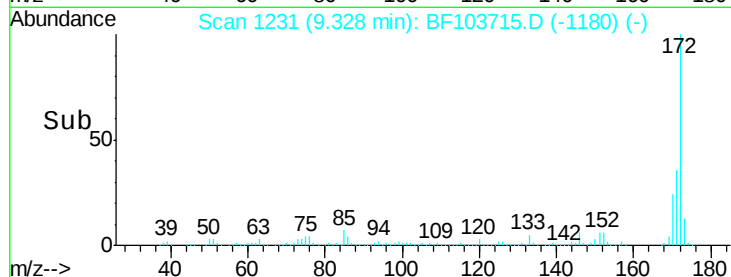
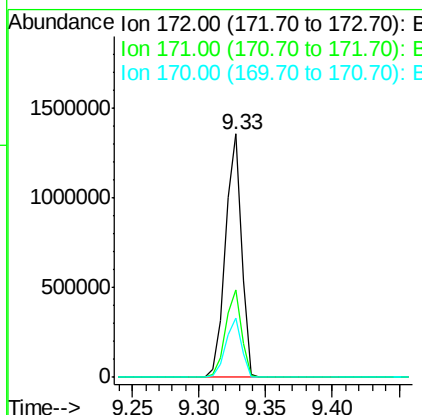
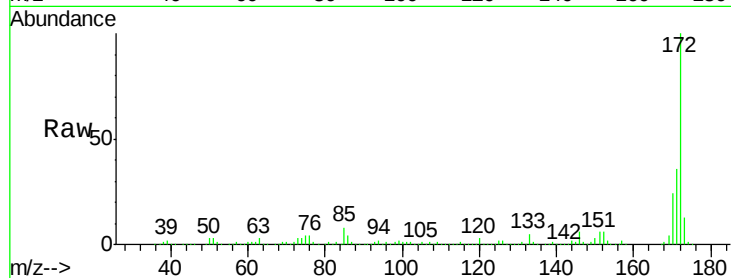
#44  
2-Fluorobiphenyl  
Concen: 64.763 ng  
RT: 9.33 min Scan# 1231  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampleId :  
CS-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.7  | 44.5  |
| 170     | 24.1  | 19.6  | 29.4  |

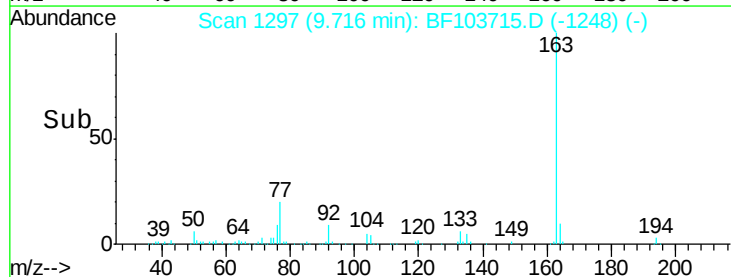
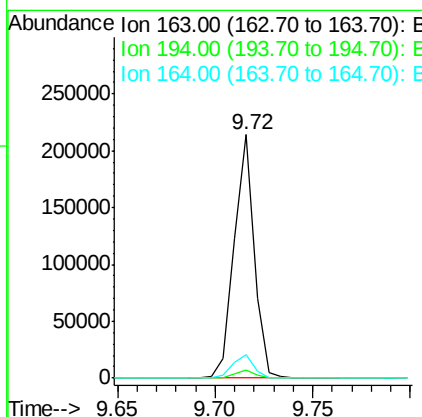
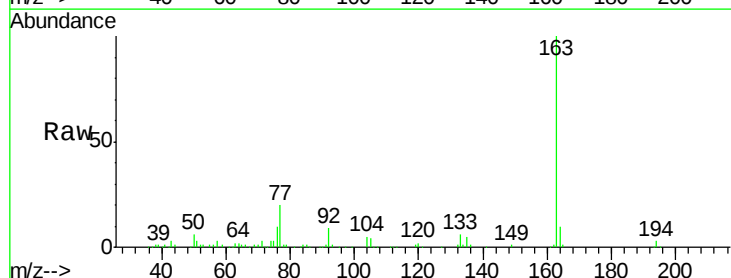
Manual Integrations  
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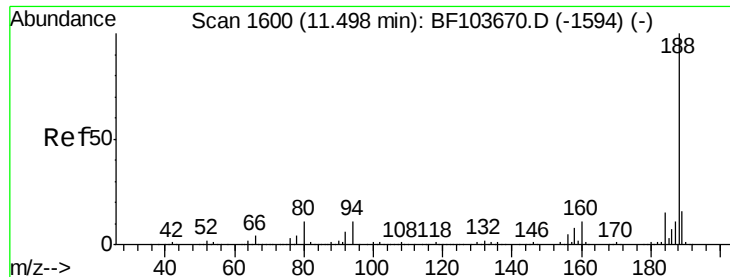
Sohil  
3/19/2018 2:02:42 PM



#49  
Dimethylphthalate  
Concen: 7.007 ng  
RT: 9.72 min Scan# 1297  
Delta R.T. -0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.2   | 2.7   | 4.1   |
| 164     | 9.6   | 8.2   | 12.2  |





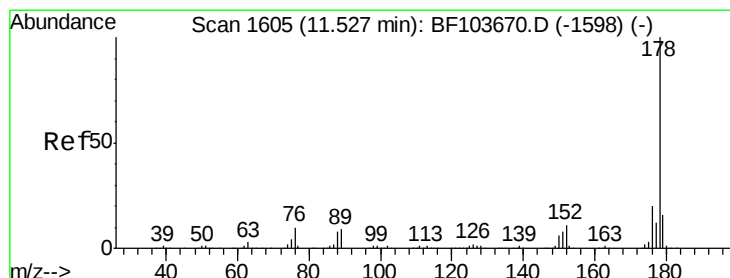
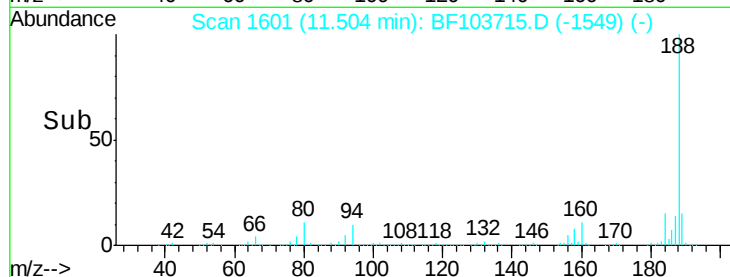
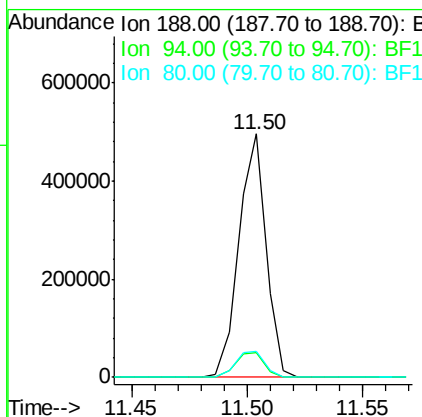
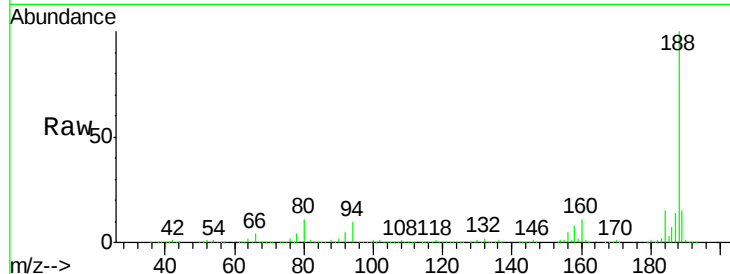
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1601  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampled :  
CS-3

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 406979 |       |       |
| 94      | 10.3  |        | 8.5   | 12.7  |
| 80      | 10.8  |        | 9.2   | 13.8  |

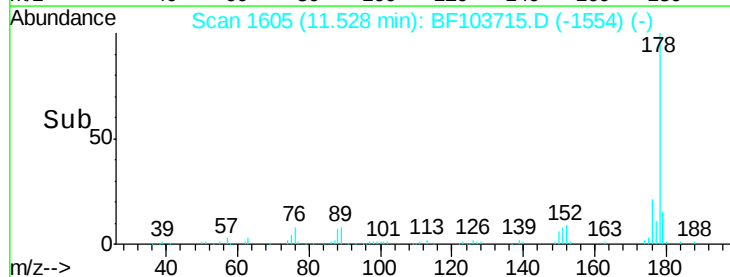
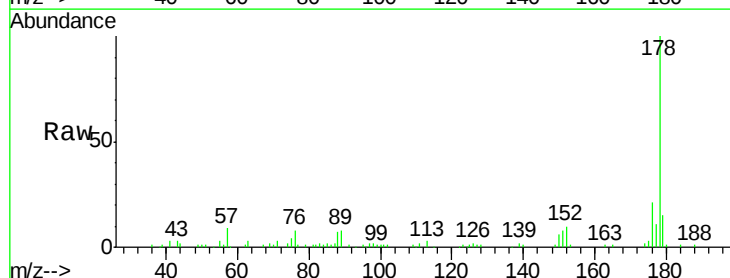
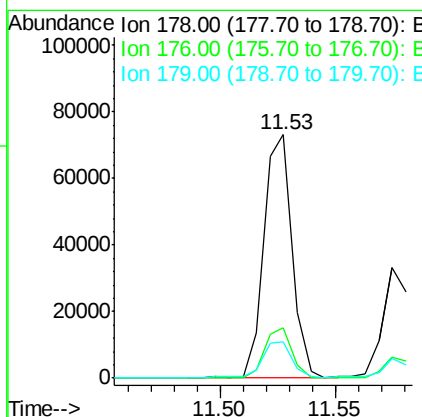
Manual Integrations  
APPROVED

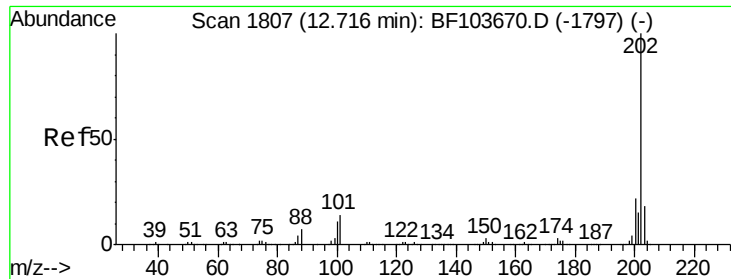
Sohil  
3/19/2018 2:02:42 PM



#70  
Phenanthrene  
Concen: 2.805 ng  
RT: 11.53 min Scan# 1605  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 62454 |       |       |
| 176     | 20.7  |       | 15.8  | 23.8  |
| 179     | 15.0  |       | 13.0  | 19.6  |





#74

Fluoranthene

Concen: 8.806 ng

RT: 12.72 min Scan# 1807

Delta R.T. 0.00 min

Lab File: BF103715.D

Acq: 16 Mar 2018 23:47

Instrument :

BNA\_F

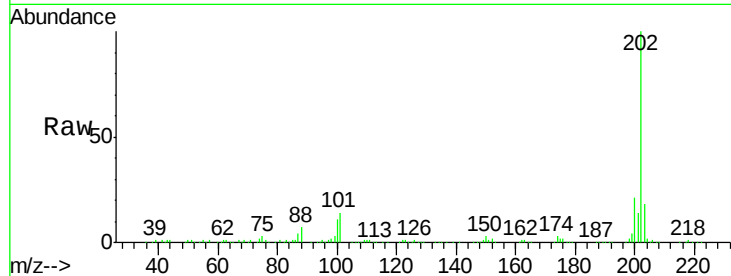
ClientSampled :

CS-3

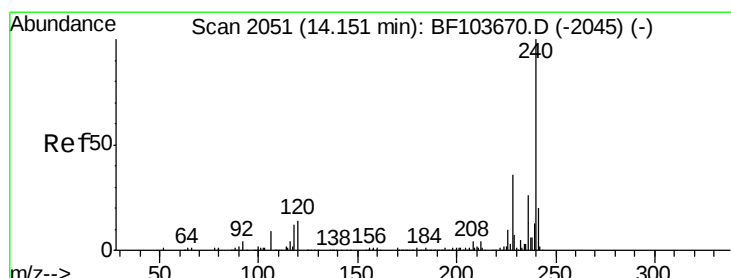
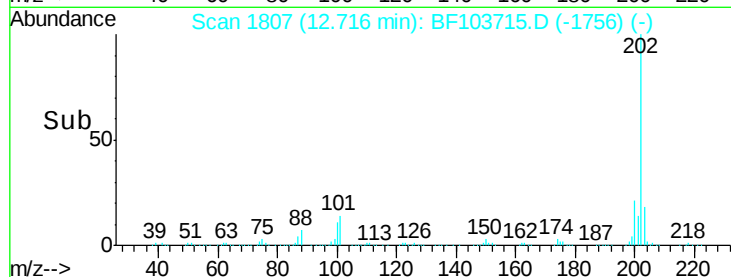
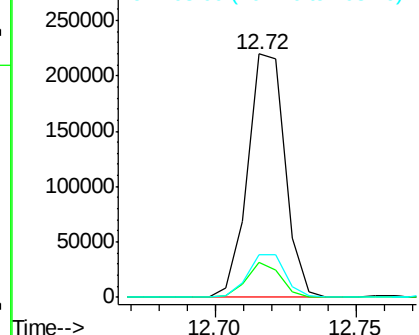
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 14.3  | 0.0        | 34.1  |
| 203     | 17.7  | 0.0        | 38.1  |

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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: 14.15 min Scan# 2051

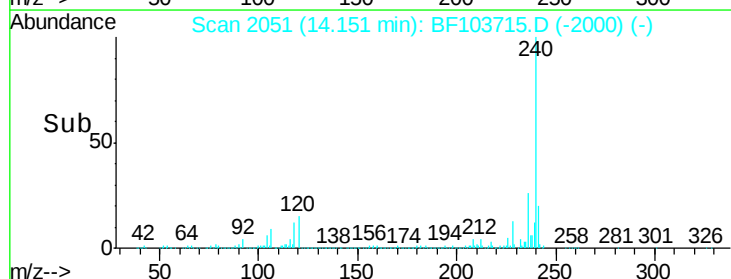
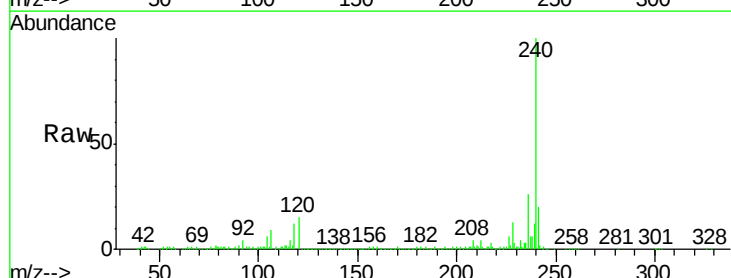
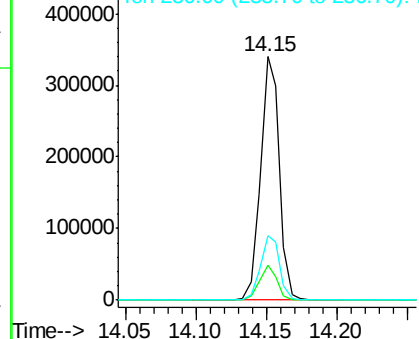
Delta R.T. 0.00 min

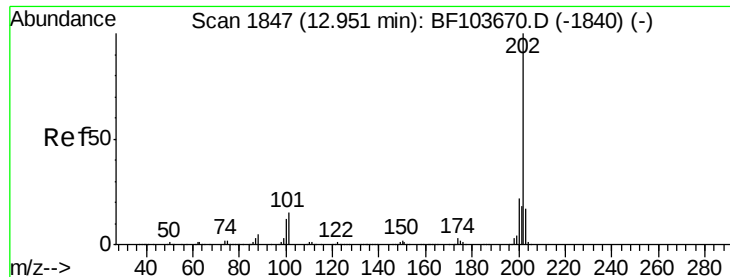
Lab File: BF103715.D

Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 14.6  | 9.5        | 14.3# |
| 236     | 26.4  | 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: 8.645 ng

RT: 12.95 min Scan# 1847

Delta R.T. 0.00 min

Lab File: BF103715.D

Acq: 16 Mar 2018 23:47

Instrument :

BNA\_F

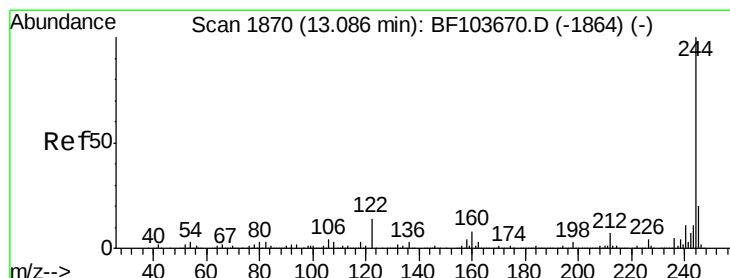
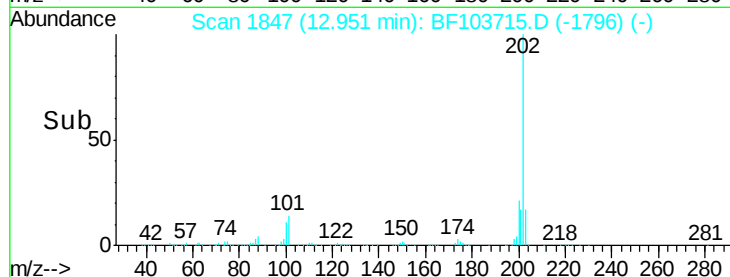
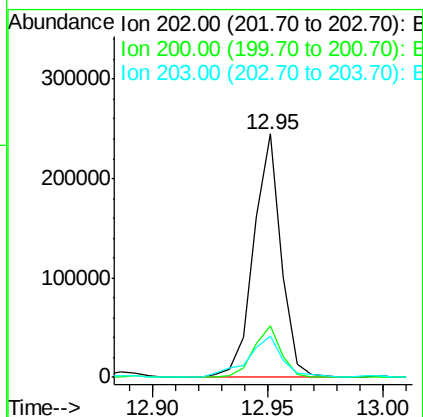
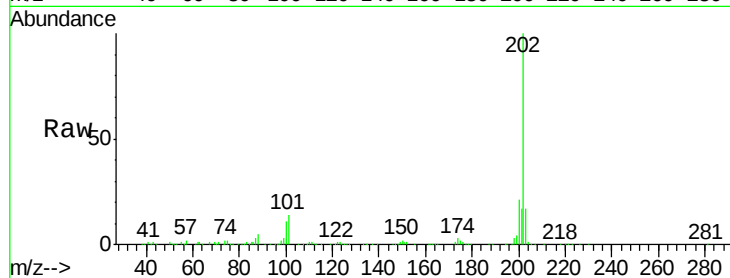
ClientSampleId :

CS-3

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 202476 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 21.1 | 17.4  | 26.2   |
| 203       | 17.1 | 14.3  | 21.5   |

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#78

Terphenyl-d14

Concen: 58.829 ng

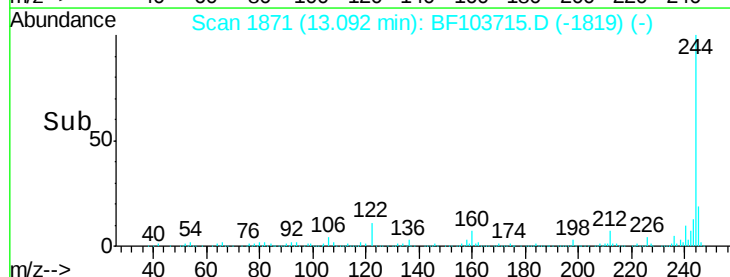
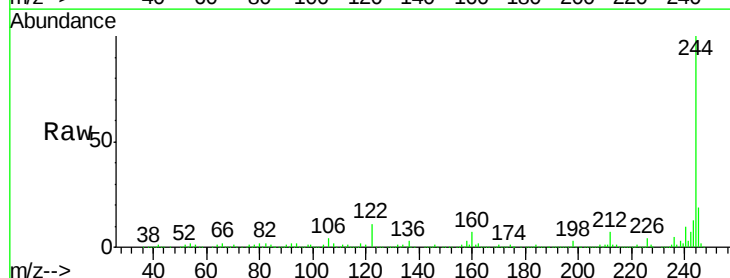
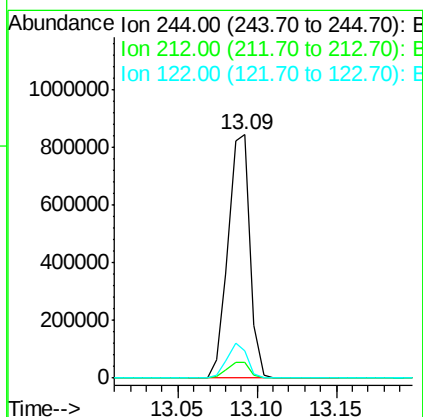
RT: 13.09 min Scan# 1871

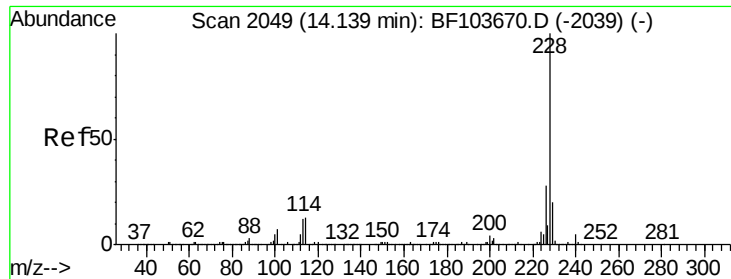
Delta R.T. 0.01 min

Lab File: BF103715.D

Acq: 16 Mar 2018 23:47

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 808274 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 6.6  | 5.4   | 8.0    |
| 122       | 11.3 | 11.0  | 16.4   |





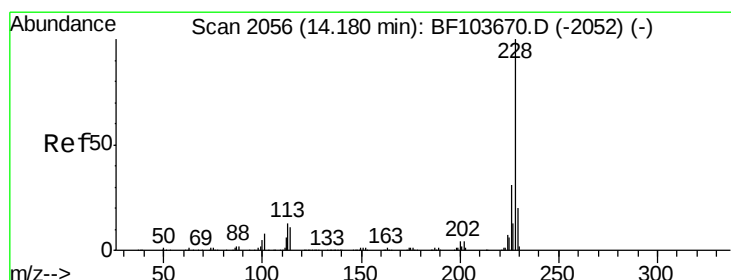
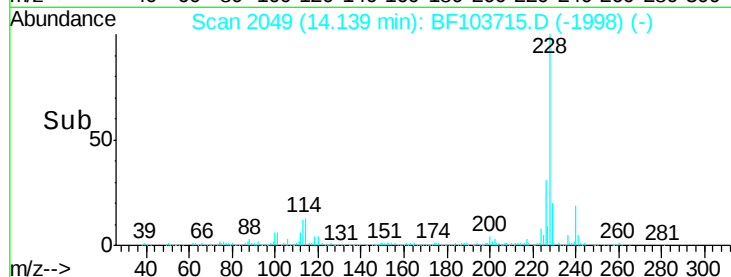
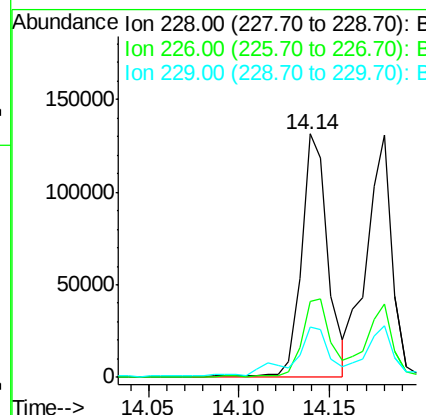
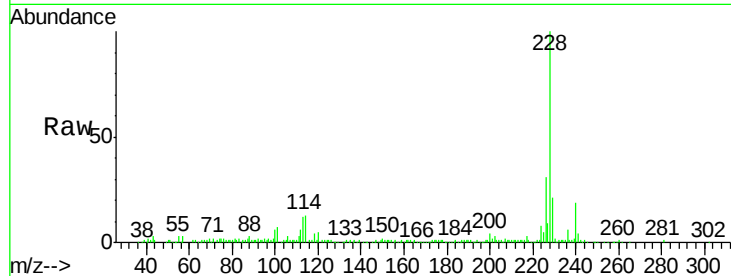
#80  
Benzo(a)anthracene  
Concen: 6.632 ng  
RT: 14.14 min Scan# 2049  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 22.6  | 33.8  |
| 229     | 20.6  | 15.8  | 23.6  |

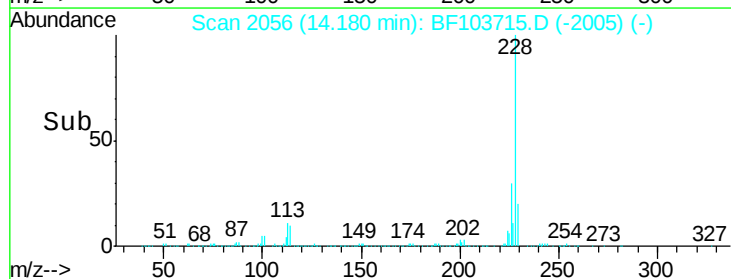
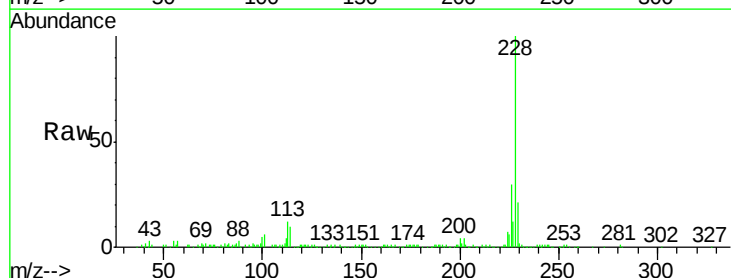
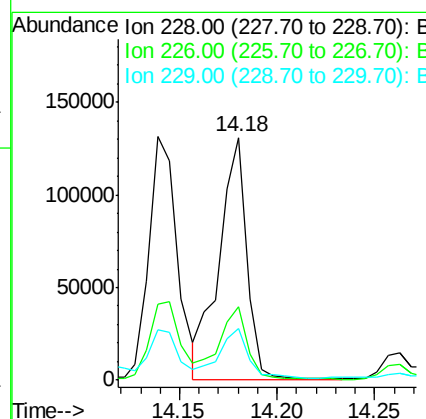
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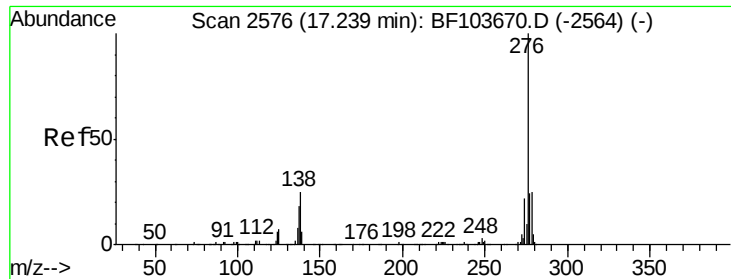
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#82  
Chrysene  
Concen: 6.705 ng  
RT: 14.18 min Scan# 2056  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 25.0  | 37.6  |
| 229     | 21.1  | 16.2  | 24.4  |





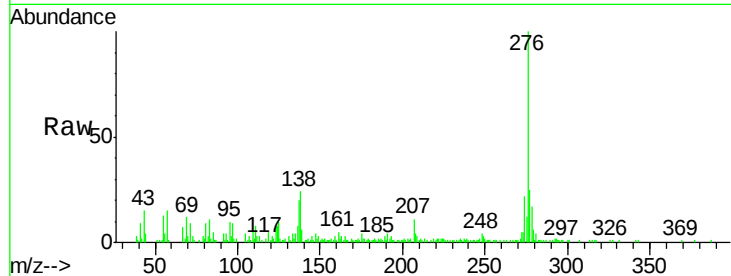
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.158 ng  
RT: 17.25 min Scan# 2578  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampleId :  
CS-3

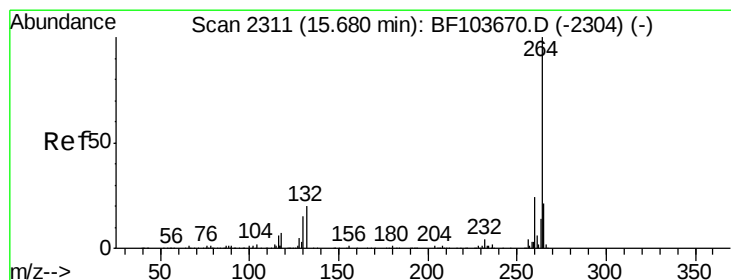
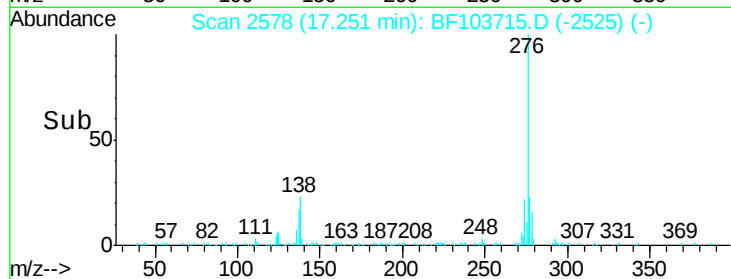
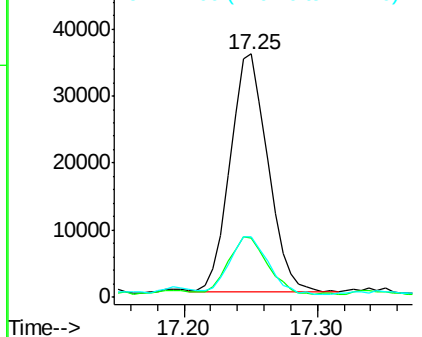
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.9  | 25.0  | 37.6# |
| 277     | 24.9  | 20.1  | 30.1  |

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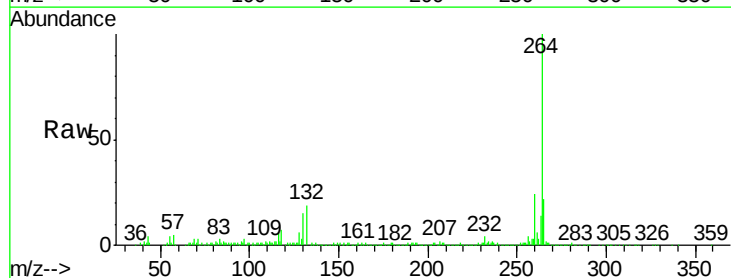


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

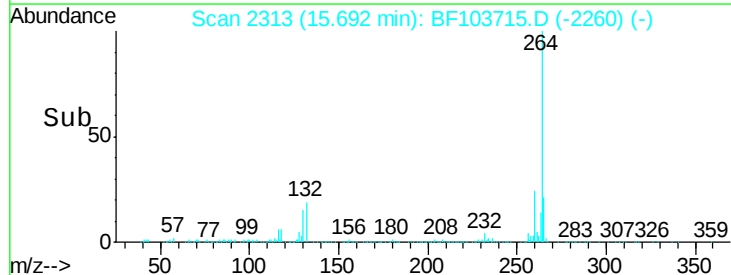
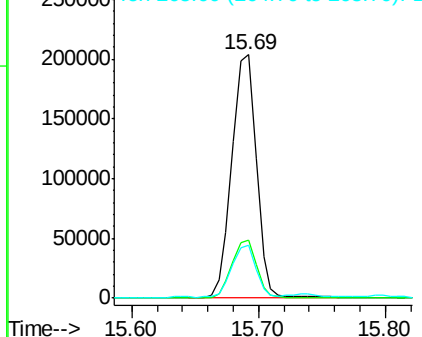


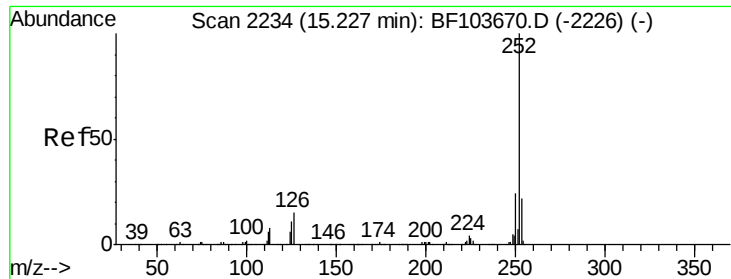
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.69 min Scan# 2313  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |



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





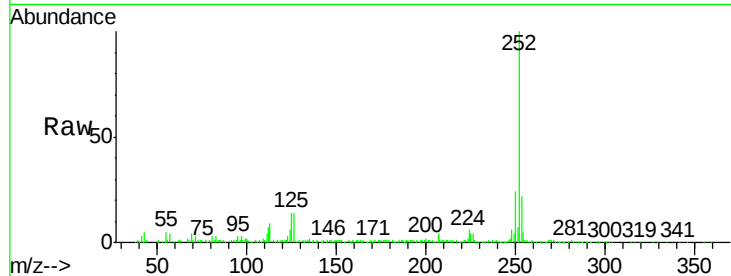
#87  
Benzo(b)fluoranthene  
Concen: 10.726 ng m  
RT: 15.23 min Scan# 2235  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampleId :  
CS-3

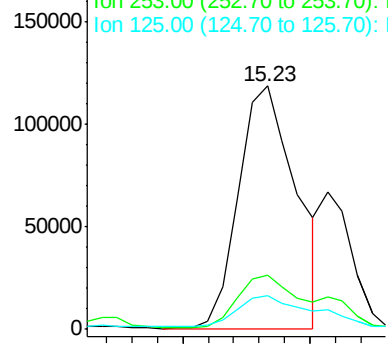
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.0  | 25.6  |
| 125     | 13.7  | 9.0   | 13.6  |

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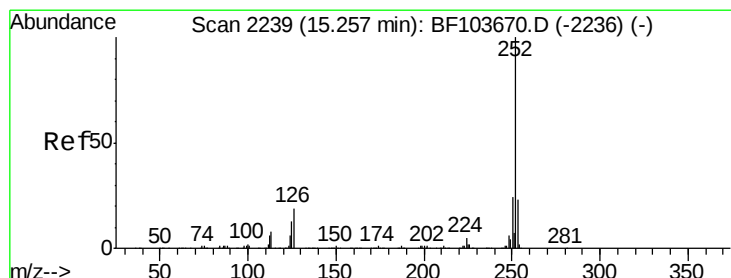
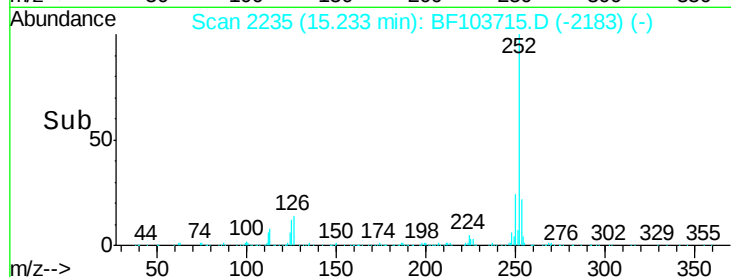
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



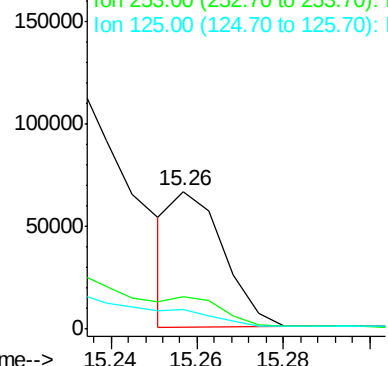
Time-->



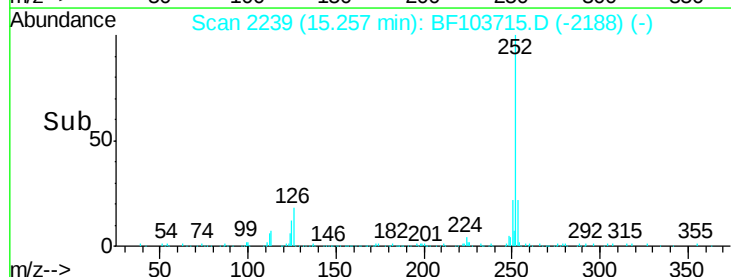
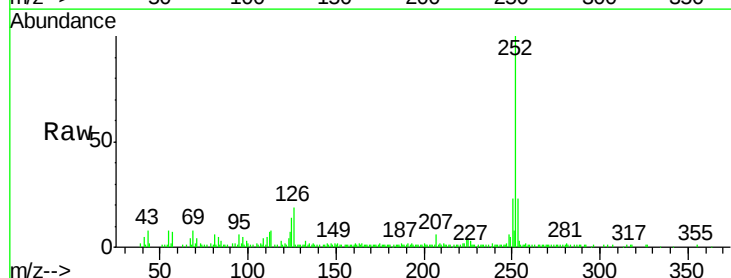
#88  
Benzo(k)fluoranthene  
Concen: 3.270 ng m  
RT: 15.26 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

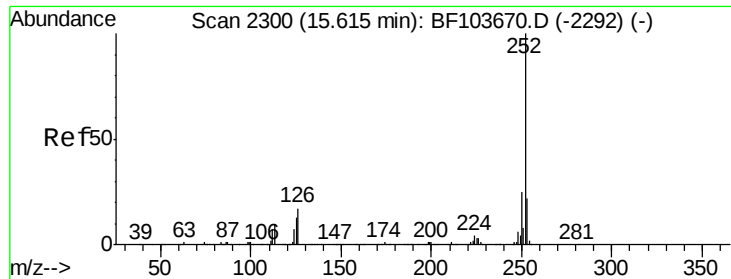
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.9  | 26.9  |
| 125     | 13.9  | 10.2  | 15.2  |

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



Time-->





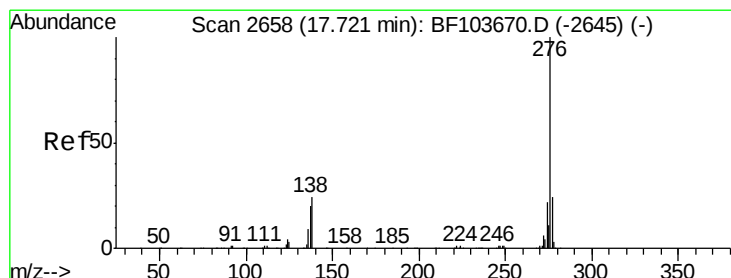
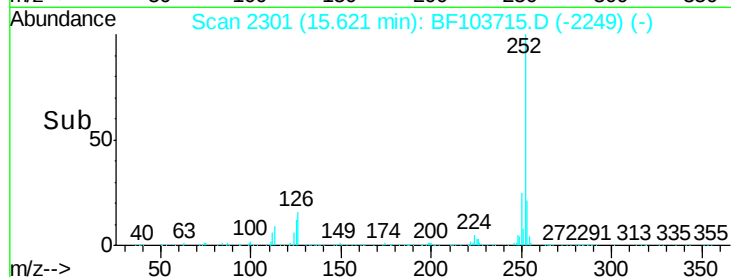
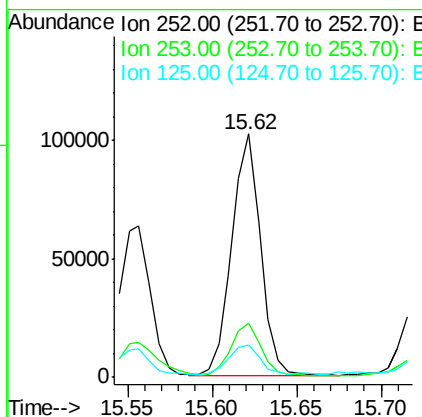
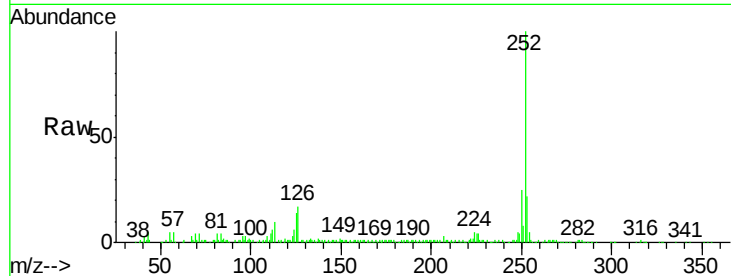
#89  
Benzo(a)pyrene  
Concen: 7.728 ng  
RT: 15.62 min Scan# 2301  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

Instrument :  
BNA\_F  
ClientSampleId :  
CS-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.1  | 25.7  |
| 125     | 13.5  | 9.8   | 14.6  |

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#91  
Benzo(g,h,i)perylene  
Concen: 5.017 ng  
RT: 17.73 min Scan# 2659  
Delta R.T. 0.01 min  
Lab File: BF103715.D  
Acq: 16 Mar 2018 23:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.7  | 17.9  | 26.9  |
| 138     | 26.3  | 21.8  | 32.8  |

