

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070116\  
 Data File : BF088570.D  
 Acq On : 1 Jul 2016 12:54  
 Operator : UM/SJ  
 Sample : H3808-06 2X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP

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Quant Time: Jul 01 14:20:25 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 30 18:01:55 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 143373   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.09  | 136  | 550015   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.84  | 164  | 239514   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.33 | 188  | 459559   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.94 | 240  | 306894   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.35 | 264  | 311443   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 435551   | 45.53 | ng    | -0.01    |
| 7) Phenol-d6                | 6.43  | 99   | 596724   | 48.27 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 400292   | 38.14 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 118971   | 53.49 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 563832   | 37.18 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.90 | 244  | 451576   | 32.77 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.56  | 163  | 57968    | 3.40  | ng    | 98       |
| 70) Phenanthrene            | 11.35 | 178  | 84253    | 3.35  | ng    | 97       |
| 74) Fluoranthene            | 12.53 | 202  | 193182   | 7.59  | ng    | 98       |
| 77) Pyrene                  | 12.75 | 202  | 162161   | 6.23  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.93 | 228  | 87699    | 4.44  | ng    | 99       |
| 82) Chrysene                | 13.97 | 228  | 64303m   | 3.29  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.69 | 276  | 37238    | 2.48  | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 14.95 | 252  | 85665m   | 4.38  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.96 | 252  | 37488m   | 2.20  | ng    |          |
| 89) Benzo(a)pyrene          | 15.29 | 252  | 63057    | 3.81  | ng    | 96       |
| 91) Benzo(g,h,i)perylene    | 17.09 | 276  | 37240    | 2.61  | ng    | 95       |

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

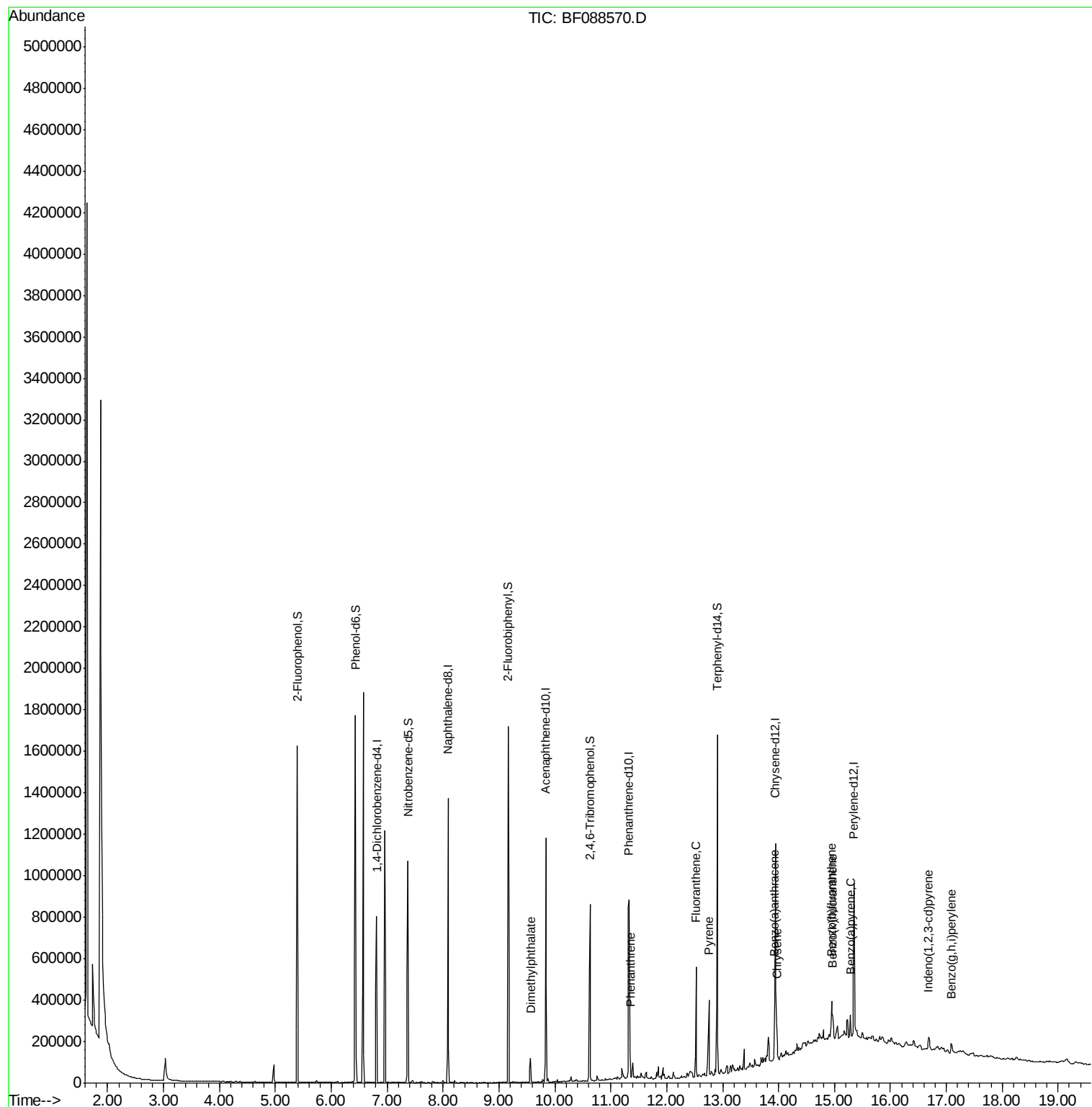
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070116\  
Data File : BF088570.D  
Acq On : 1 Jul 2016 12:54  
Operator : UM/SJ  
Sample : H3808-06 2X  
Misc :  
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Instrument :  
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Quant Time: Jul 01 14:20:25 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
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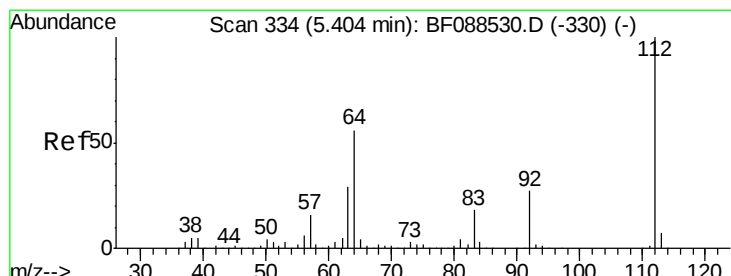
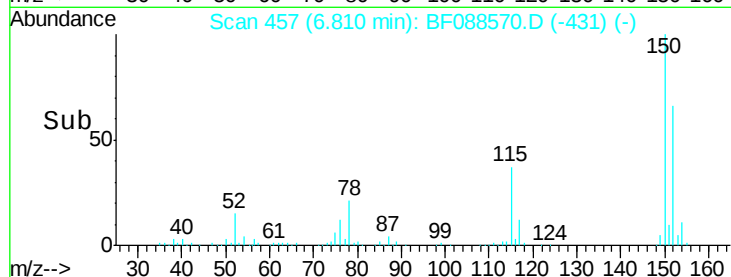
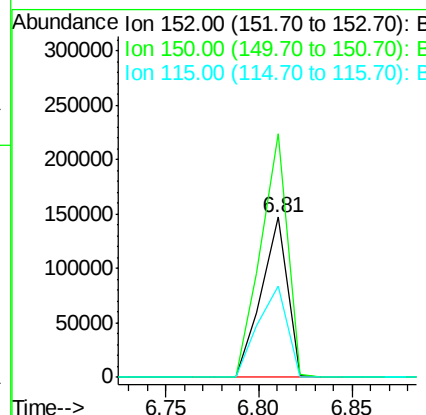
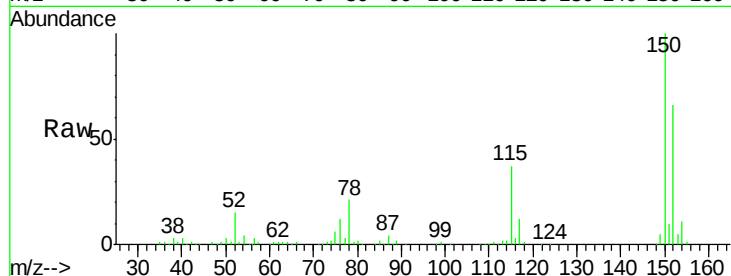
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.81 min Scan# 457  
 Delta R.T. -0.00 min  
 Lab File: BF088570.D  
 Acq: 1 Jul 2016 12:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.8 | 123.8 | 185.6 |
| 115     | 56.7  | 39.6  | 59.4  |

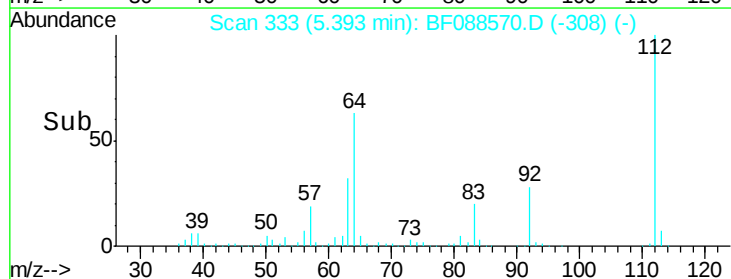
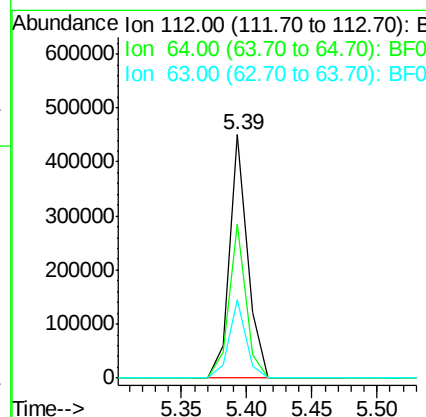
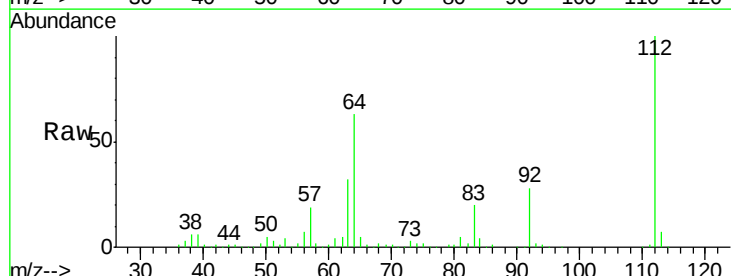
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#5  
 2-Fluorophenol  
 Concen: 45.53 ng  
 RT: 5.39 min Scan# 333  
 Delta R.T. -0.01 min  
 Lab File: BF088570.D  
 Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.3  | 42.2  | 63.2# |
| 63      | 32.4  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 48.27 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

Instrument :

BNA\_F

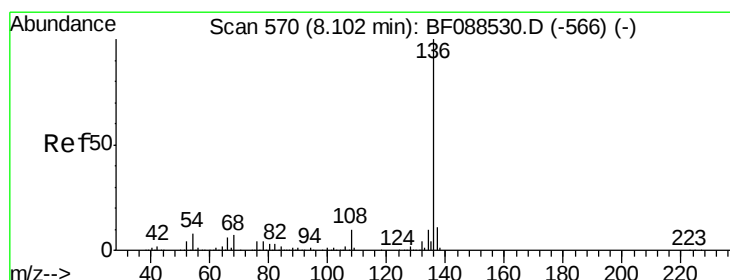
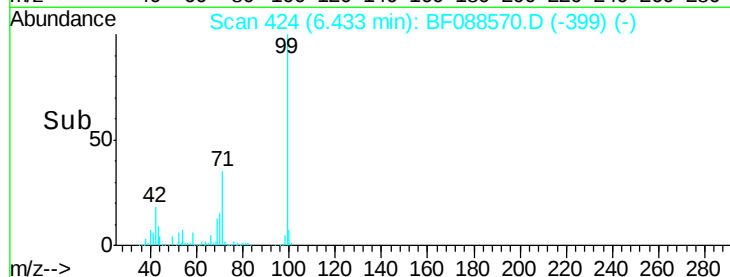
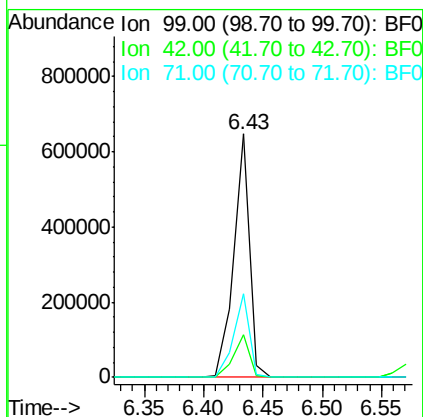
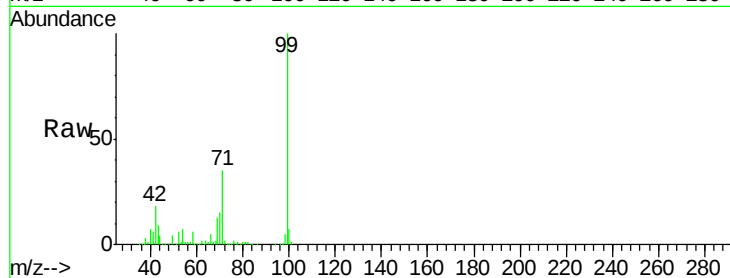
ClientSampleId :

SB-03-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 596724 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.6  | 12.2  | 18.2   |
| 71        | 34.5  | 23.4  | 35.0   |

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#21

Naphthalene-d8

Concen: 20.00 ng

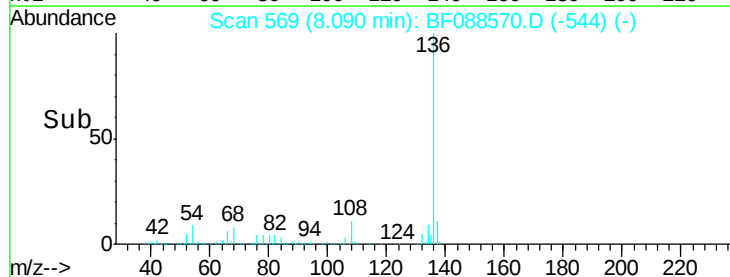
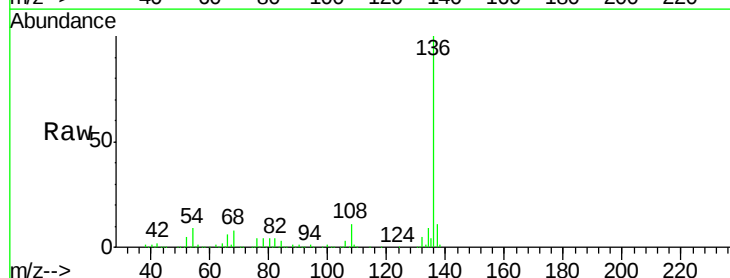
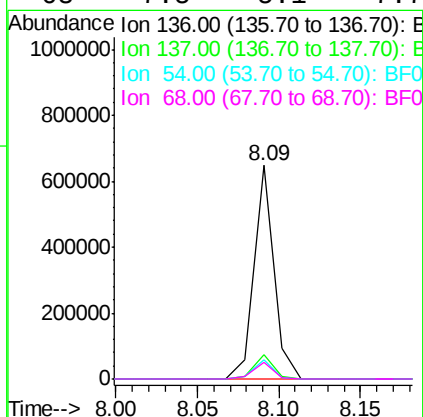
RT: 8.09 min Scan# 569

Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 550015 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 9.1   | 13.7   |
| 54        | 9.2   | 6.6   | 10.0   |
| 68        | 7.5   | 5.1   | 7.7    |





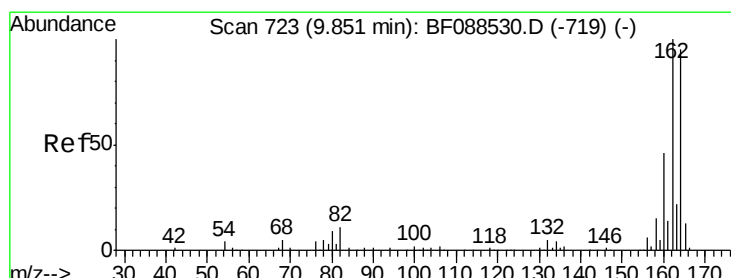
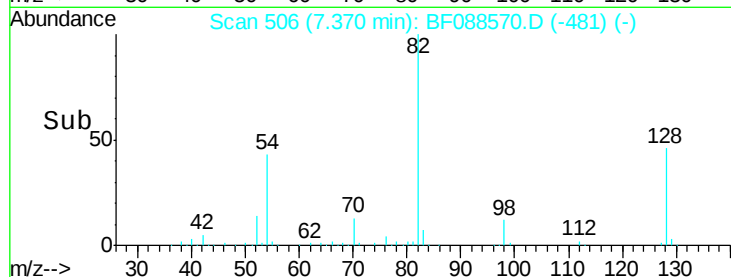
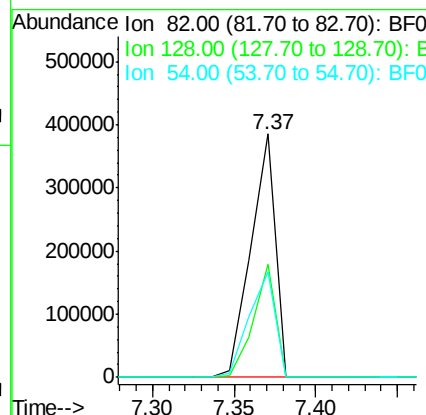
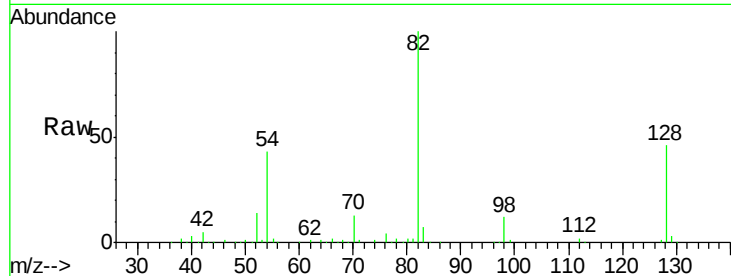
#23  
 Nitrobenzene-d5  
 Concen: 38.14 ng  
 RT: 7.37 min Scan# 506  
 Delta R.T. -0.01 min  
 Lab File: BF088570.D  
 Acq: 1 Jul 2016 12:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 400292 |       |       |
| 128     | 46.5  | 35.9   | 53.9  |       |
| 54      | 43.1  | 40.9   | 61.3  |       |

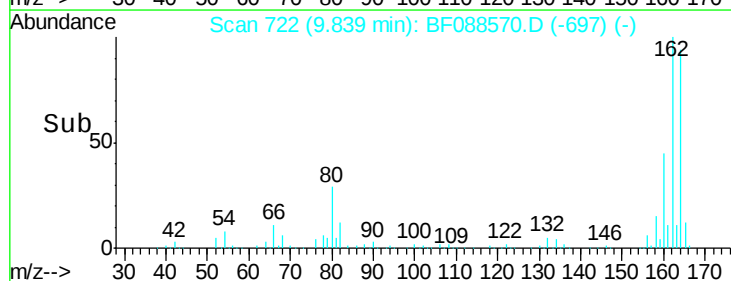
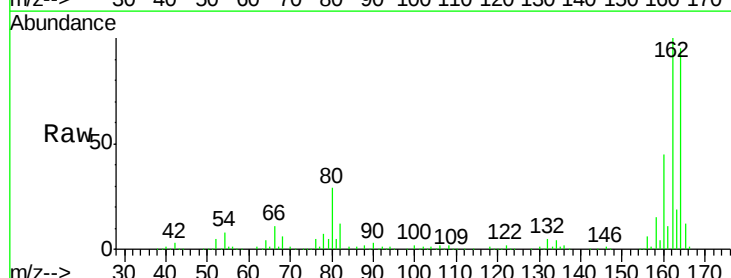
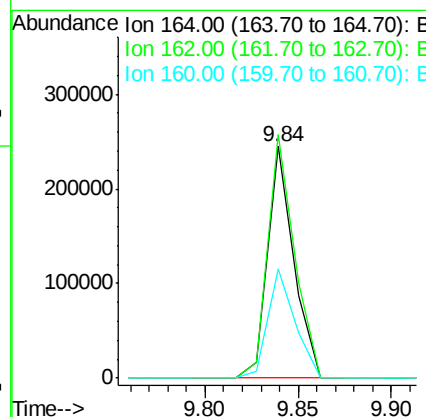
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.84 min Scan# 722  
 Delta R.T. -0.01 min  
 Lab File: BF088570.D  
 Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 239514 |       |       |
| 162     | 105.1 | 85.4   | 128.2 |       |
| 160     | 47.4  | 39.5   | 59.3  |       |





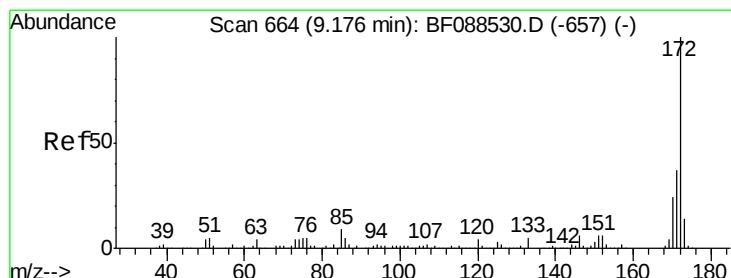
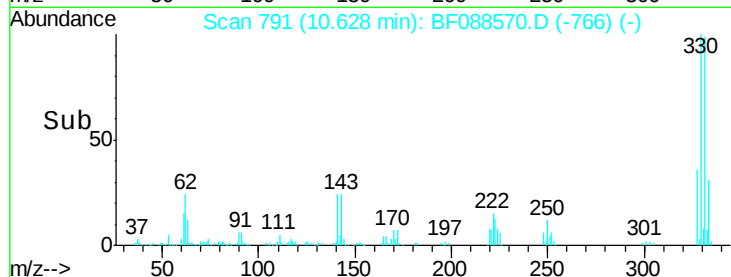
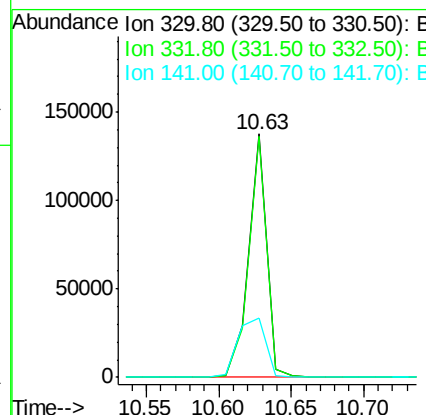
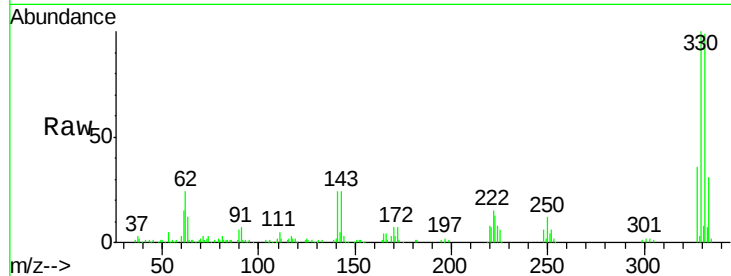
#41  
 2,4,6-Tribromophenol  
 Concen: 53.49 ng  
 RT: 10.63 min Scan# 791  
 Delta R.T. -0.01 min  
 Lab File: BF088570.D  
 Acq: 1 Jul 2016 12:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 330     | 100   |            |            |
| 332     | 98.4  | 0.0        | 0.0#       |
| 141     | 37.5  | 0.0        | 0.0#       |

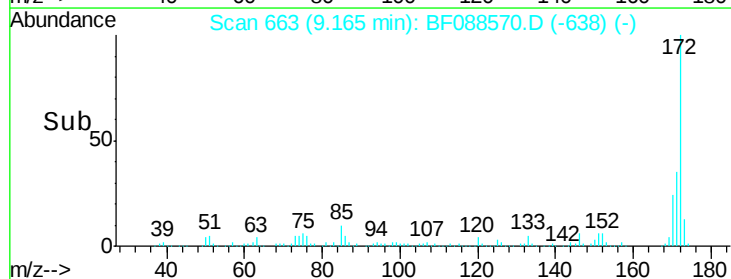
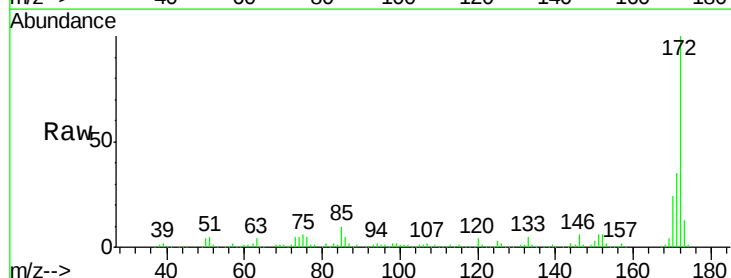
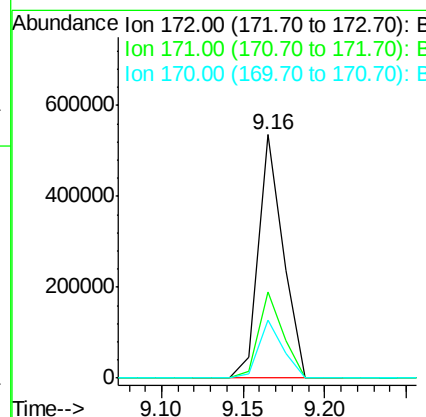
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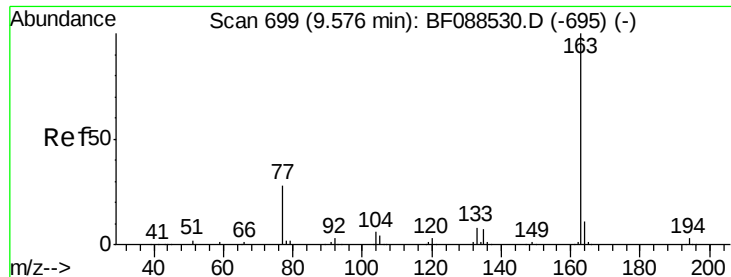
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#44  
 2-Fluorobiphenyl  
 Concen: 37.18 ng  
 RT: 9.16 min Scan# 663  
 Delta R.T. -0.01 min  
 Lab File: BF088570.D  
 Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 172     | 100   |            |            |
| 171     | 35.2  | 28.6       | 43.0       |
| 170     | 23.6  | 19.2       | 28.8       |





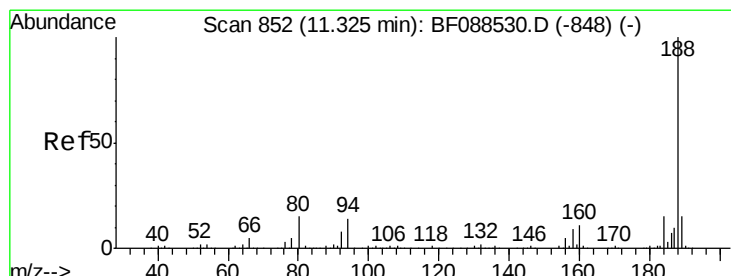
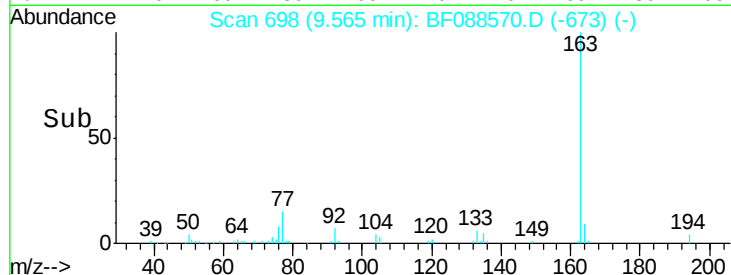
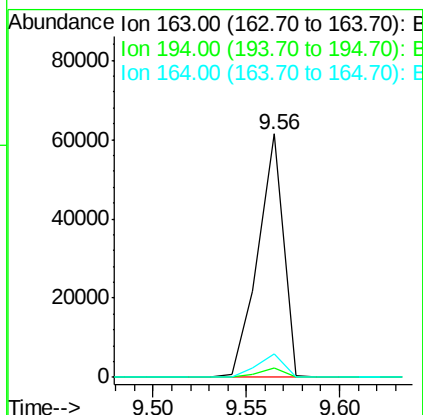
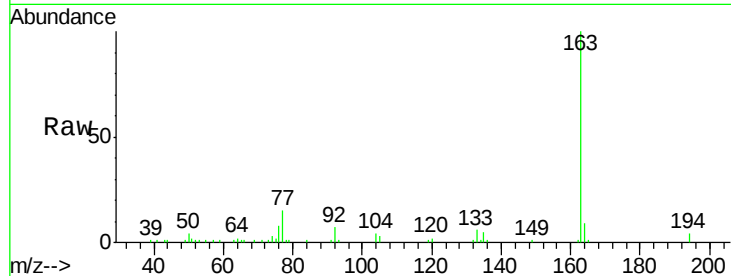
#49  
Dimethylphthalate  
Concen: 3.40 ng  
RT: 9.56 min Scan# 698  
Delta R.T. -0.01 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

Instrument :  
BNA\_F  
ClientSampleId :  
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| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 57968 |       |       |
| 194     | 4.0   |       | 2.8   | 4.2   |
| 164     | 9.5   |       | 8.3   | 12.5  |

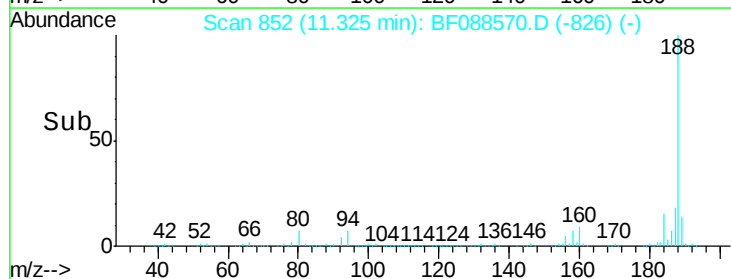
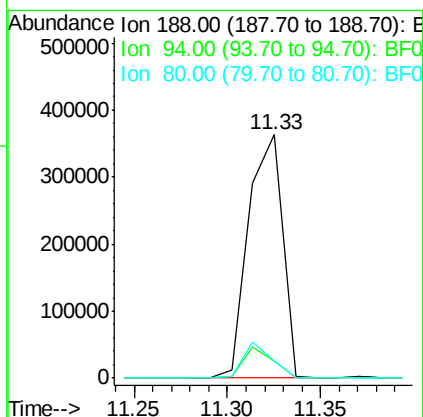
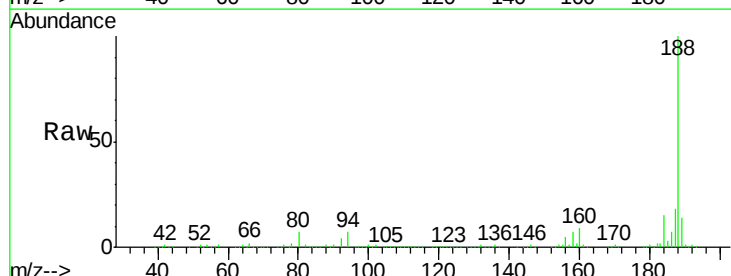
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.33 min Scan# 852  
Delta R.T. -0.00 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 459559 |       |       |
| 94      | 7.0   |        | 9.0   | 13.6# |
| 80      | 7.1   |        | 10.0  | 15.0# |





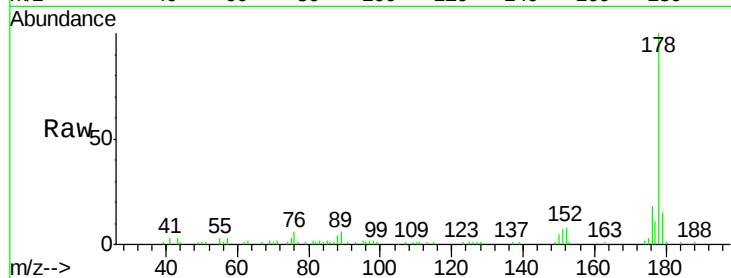
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Phenanthrene  
Concen: 3.35 ng  
RT: 11.35 min Scan# 854  
Delta R.T. 0.00 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

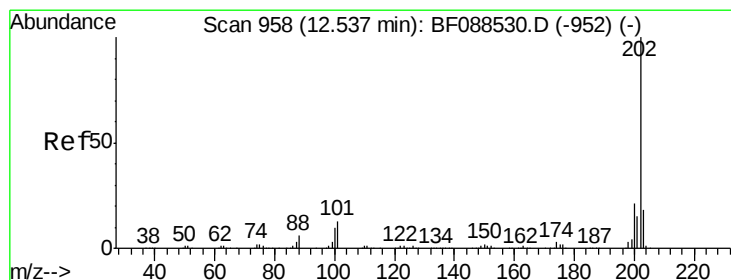
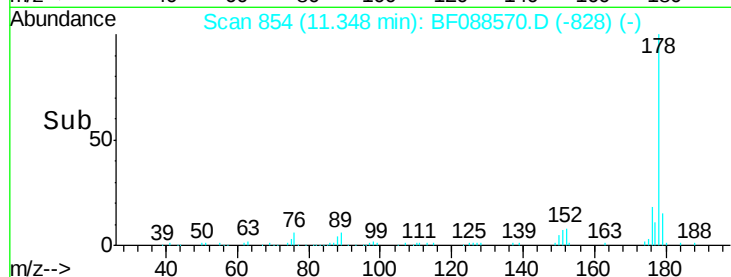
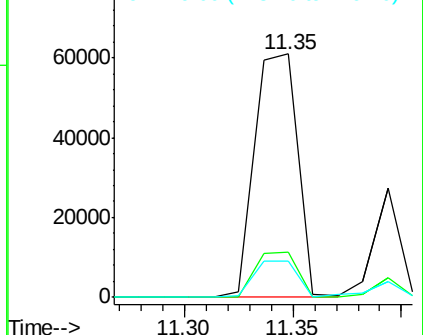
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 15.8  | 23.6  |
| 179     | 15.1  | 13.0  | 19.4  |

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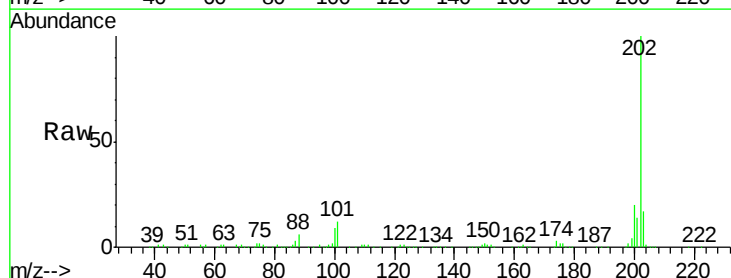


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

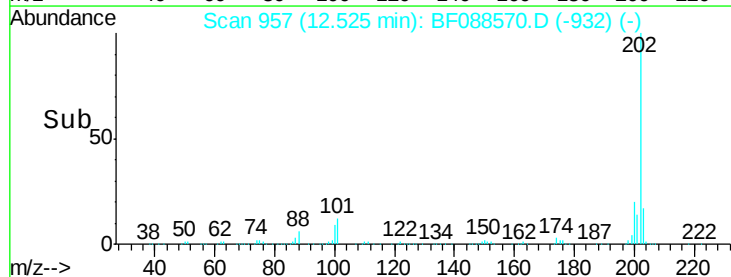
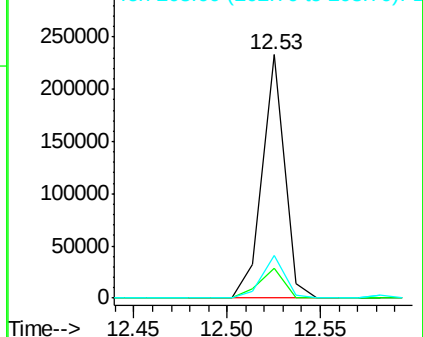


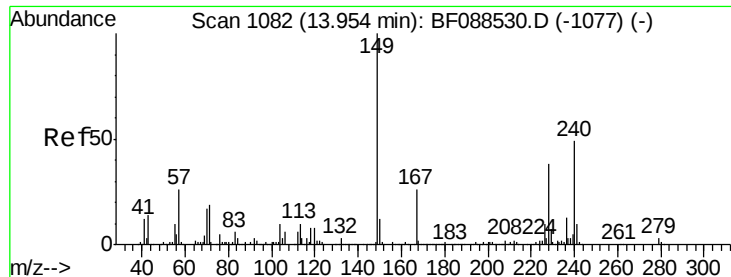
#74  
Fluoranthene  
Concen: 7.59 ng  
RT: 12.53 min Scan# 957  
Delta R.T. -0.01 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.1  | 0.0   | 33.1  |
| 203     | 17.3  | 0.0   | 38.1  |



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: 20.00 ng

RT: 13.94 min Scan# 1081

Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

Instrument :

BNA\_F

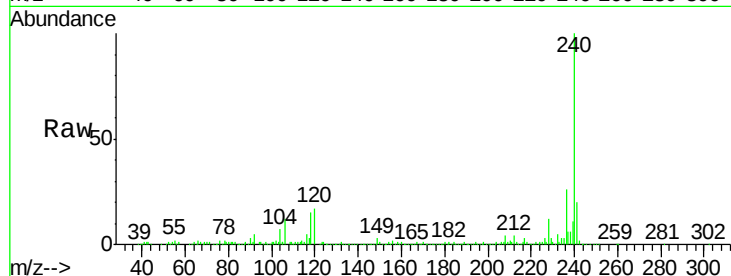
ClientSampleId :

SB-03-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 306894 |       |       |
| 120     | 17.0  | 6.8    | 10.2  |       |
| 236     | 26.3  | 20.2   | 30.2  |       |

Manual Integrations  
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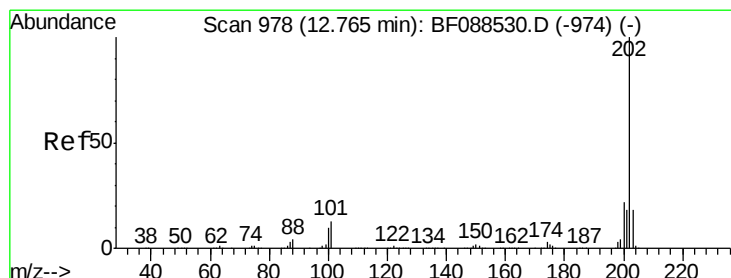
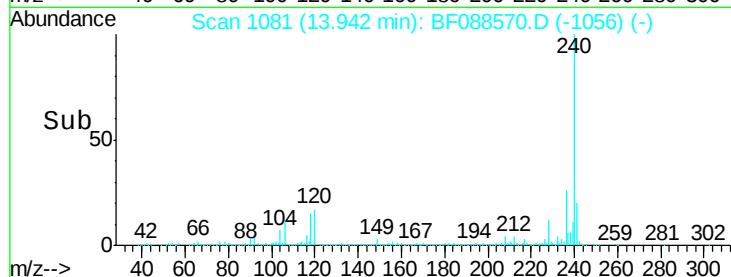
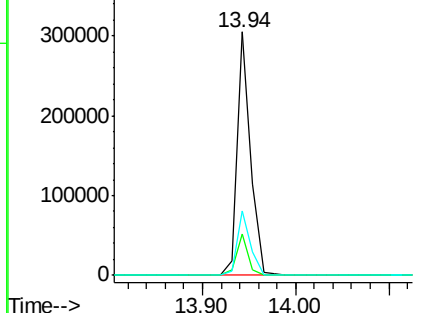
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 6.23 ng

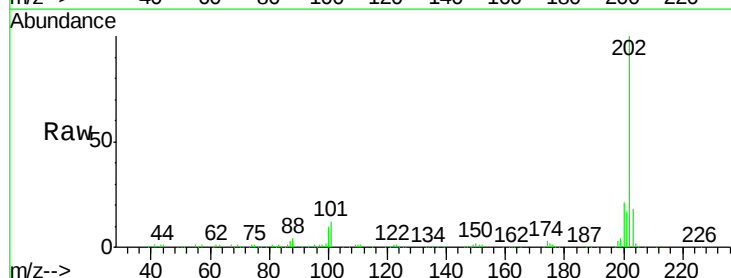
RT: 12.75 min Scan# 977

Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

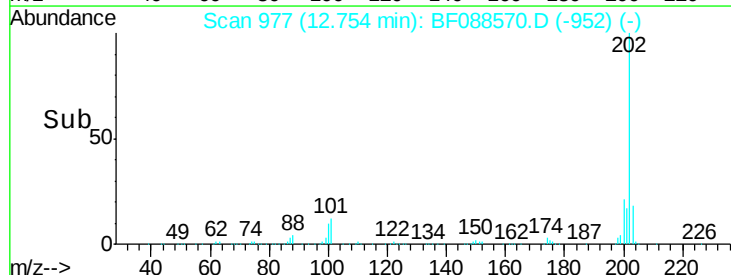
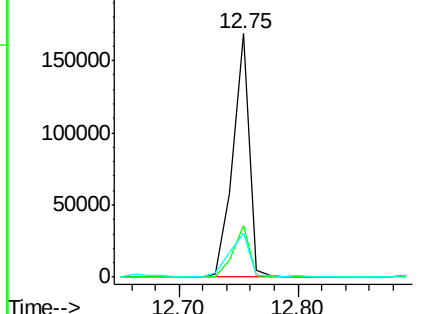
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 162161 |       |       |
| 200     | 21.1  | 17.4   | 26.2  |       |
| 203     | 17.8  | 14.5   | 21.7  |       |

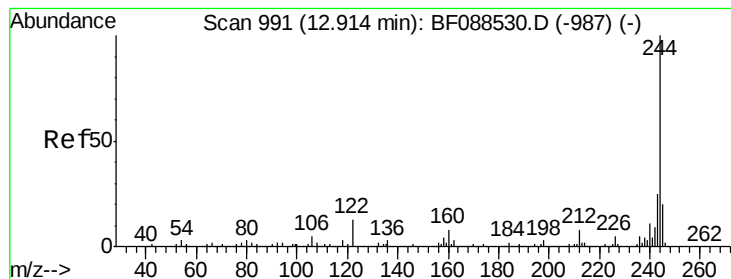


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 32.77 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

Instrument :

BNA\_F

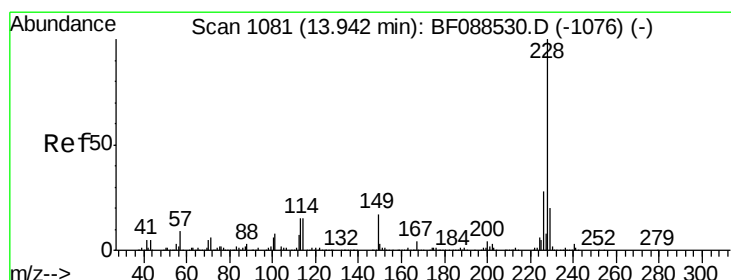
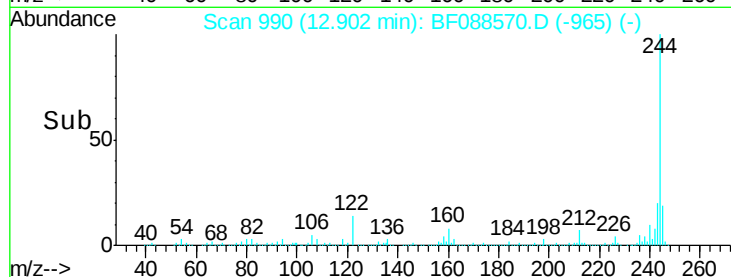
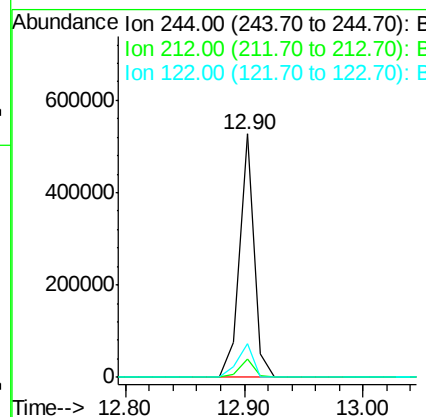
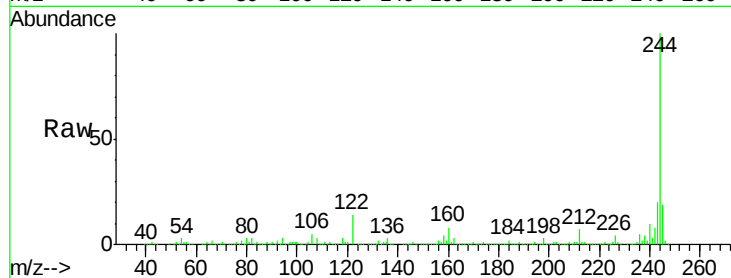
ClientSampleId :

SB-03-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 451576 |       |       |
| 212     | 7.4   | 6.0    | 9.0   |       |
| 122     | 13.6  | 11.2   | 16.8  |       |

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#80

Benzo(a)anthracene

Concen: 4.44 ng

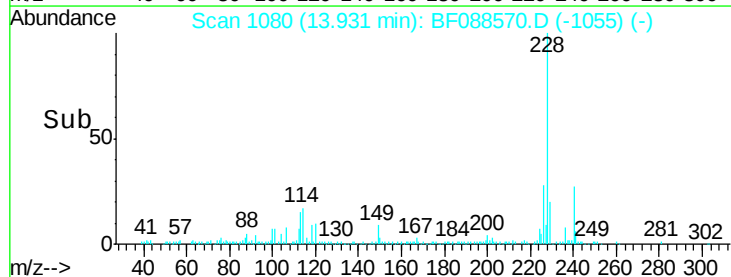
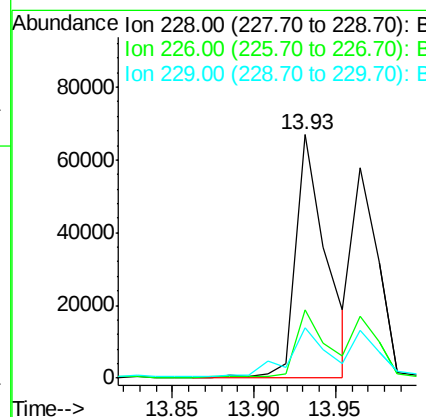
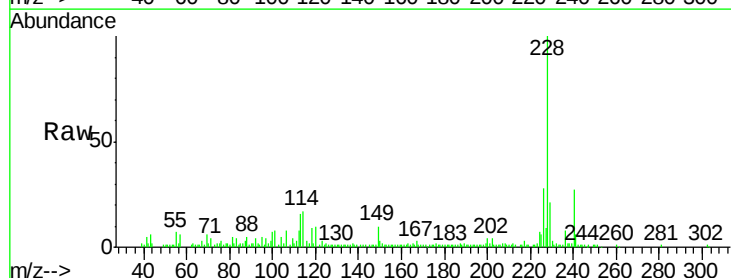
RT: 13.93 min Scan# 1080

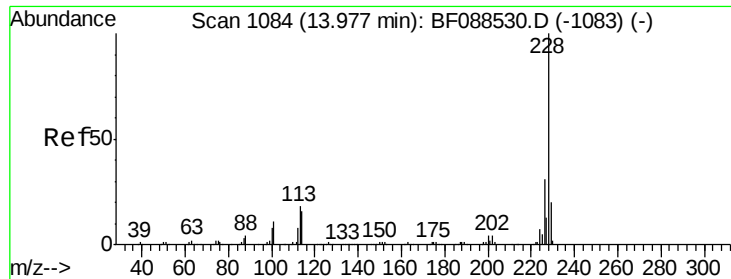
Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 87699 |       |       |
| 226     | 28.1  | 22.3  | 33.5  |       |
| 229     | 20.8  | 16.0  | 24.0  |       |





#82

Chrysene

Concen: 3.29 ng m

RT: 13.97 min Scan# 1083

Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

Instrument :

BNA\_F

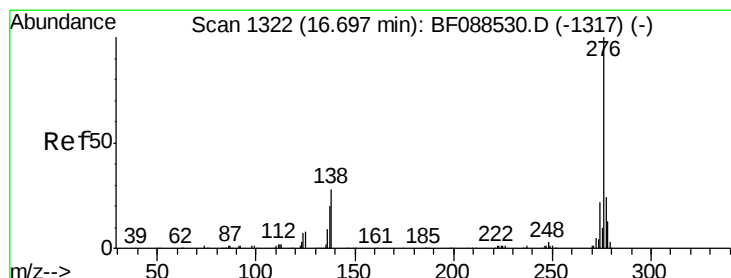
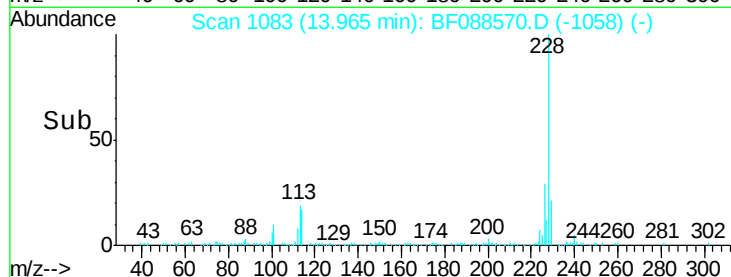
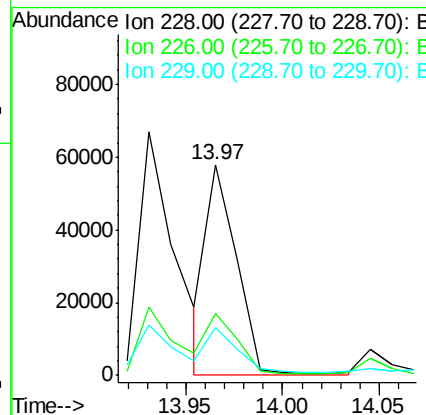
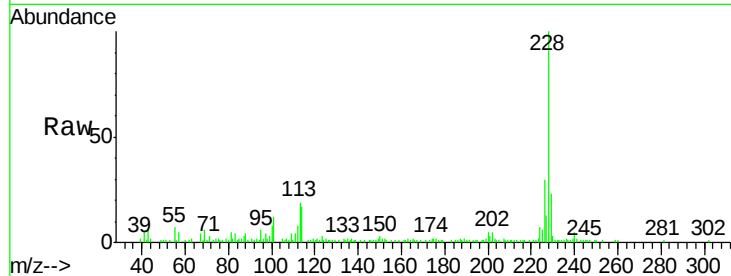
ClientSampleId :

SB-03-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 64303 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.6  | 25.4  | 38.2  |
| 229       | 22.6  | 16.3  | 24.5  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.48 ng

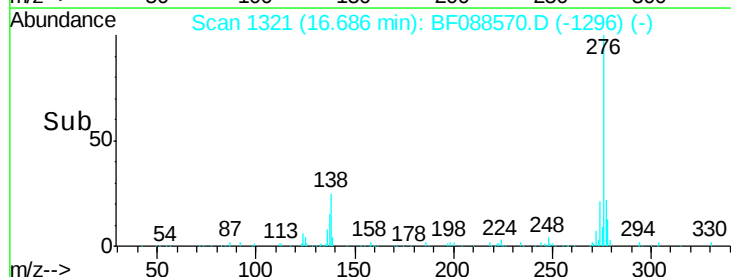
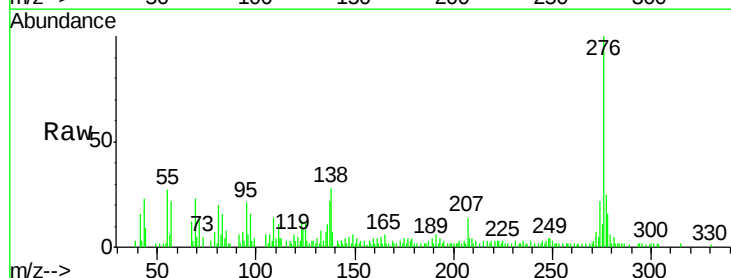
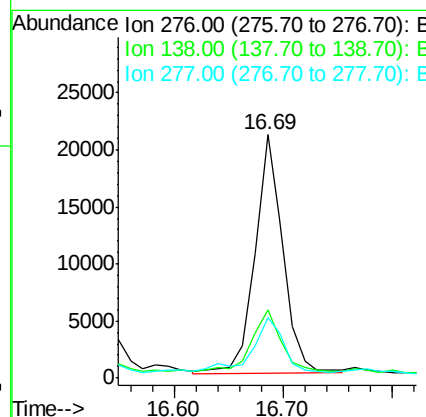
RT: 16.69 min Scan# 1321

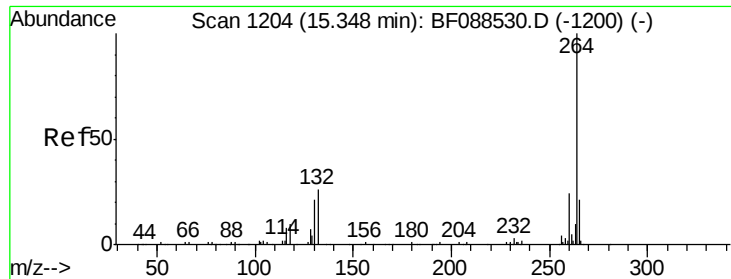
Delta R.T. -0.01 min

Lab File: BF088570.D

Acq: 1 Jul 2016 12:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 37238 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 26.9  | 0.0   | 0.0#  |
| 277       | 28.2  | 0.0   | 0.0#  |





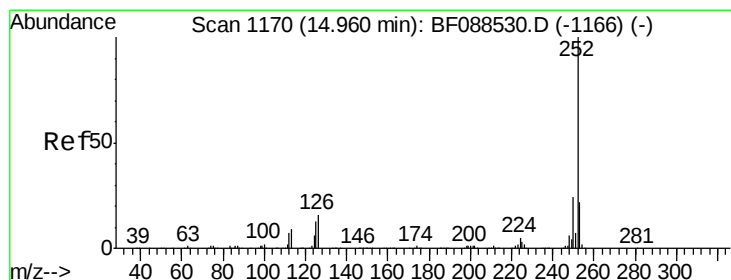
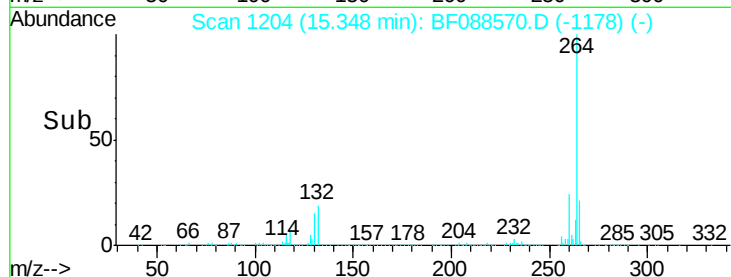
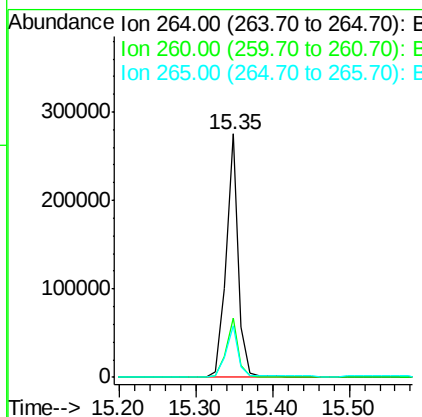
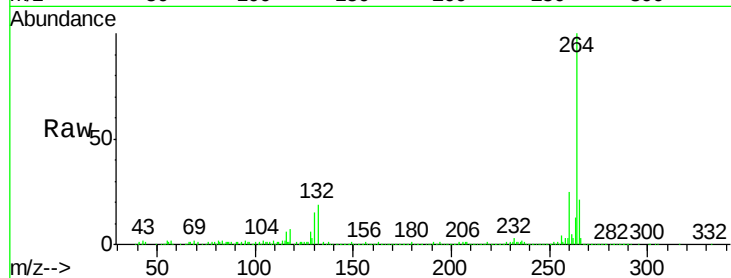
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.35 min Scan# 1204  
Delta R.T. 0.00 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.2  | 28.8  |
| 265     | 21.4  | 16.9  | 25.3  |

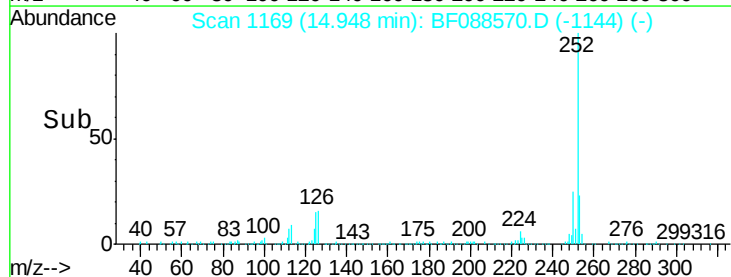
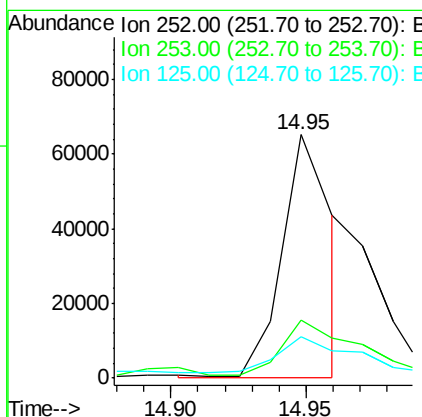
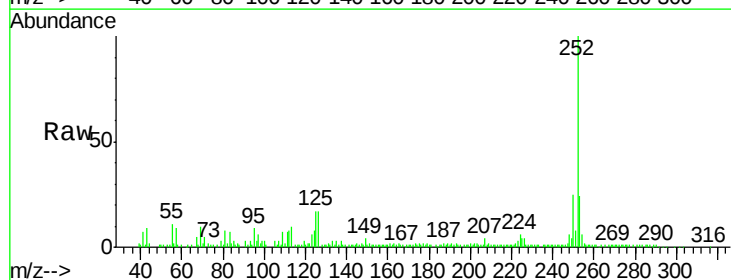
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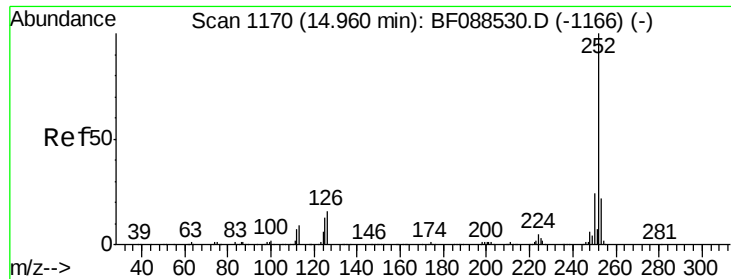
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#87  
Benzo(b)fluoranthene  
Concen: 4.38 ng m  
RT: 14.95 min Scan# 1169  
Delta R.T. -0.01 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.4  | 26.2  |
| 125     | 17.0  | 7.1   | 10.7# |





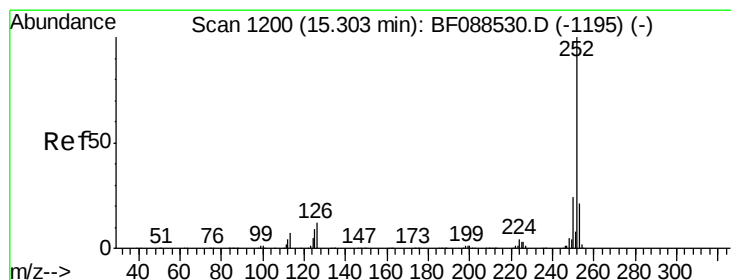
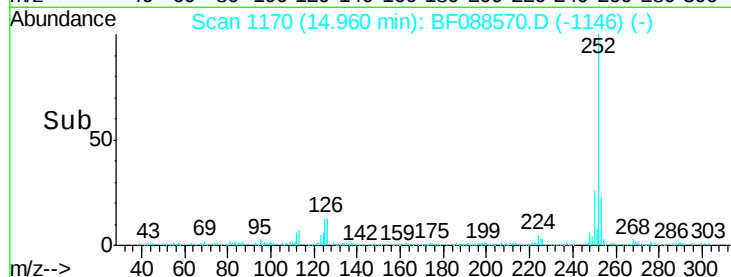
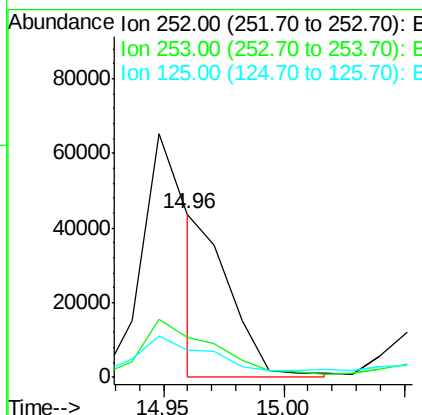
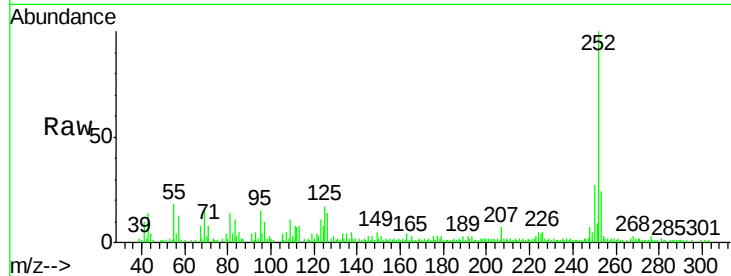
#88  
Benzo(k)fluoranthene  
Concen: 2.20 ng m  
RT: 14.96 min Scan# 1170  
Delta R.T. -0.02 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 18.0  | 27.0  |
| 125     | 16.8  | 11.2  | 16.8  |

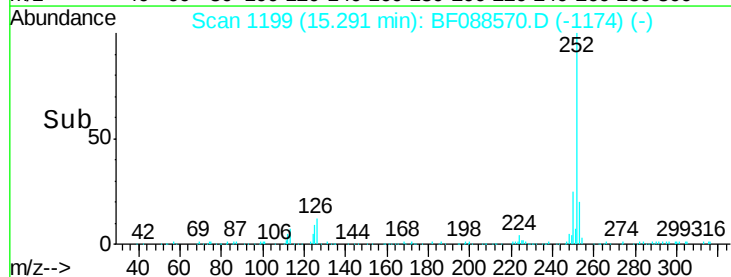
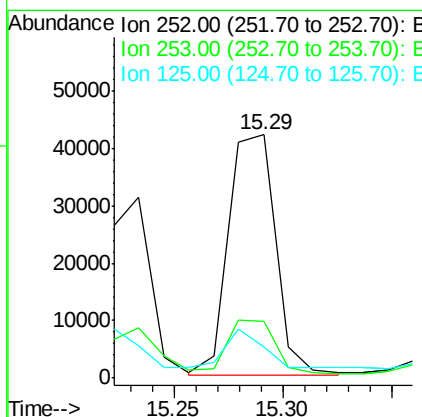
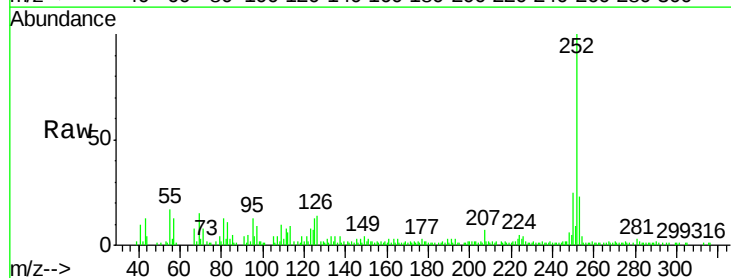
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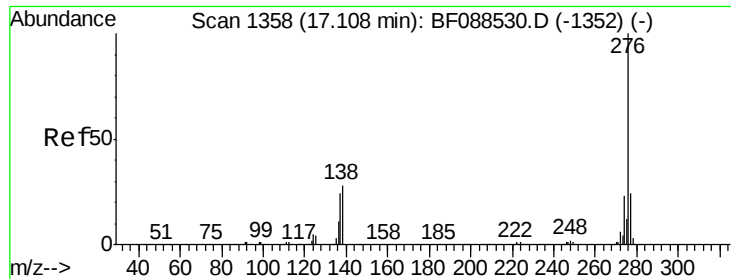
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#89  
Benzo(a)pyrene  
Concen: 3.81 ng  
RT: 15.29 min Scan# 1199  
Delta R.T. -0.01 min  
Lab File: BF088570.D  
Acq: 1 Jul 2016 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.9  | 26.9  |
| 125     | 12.6  | 12.5  | 18.7  |





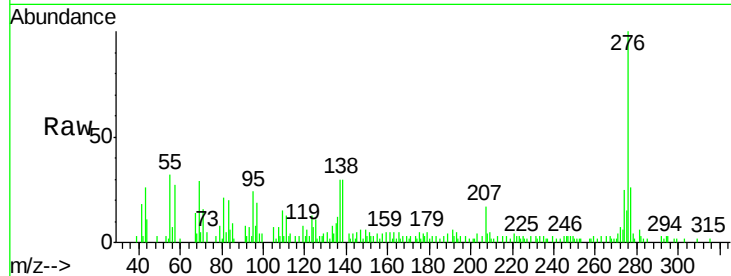
#91  
 Benzo(g,h,i)perylene  
 Concen: 2.61 ng  
 RT: 17.09 min Scan# 1356  
 Delta R.T. -0.02 min  
 Lab File: BF088570.D  
 Acq: 1 Jul 2016 12:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 37240 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 277       | 25.8 | 18.9  | 28.3  |
| 138       | 30.1 | 21.4  | 32.2  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

