

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100317\  
 Data File : BF099054.D  
 Acq On : 4 Oct 2017 2:20  
 Operator : SJ/JU  
 Sample : I5610-04  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2B-(1-2)-COMP-(0-5)

Manual Integrations  
 APPROVED

Sohil  
 10/4/2017 7:21:32 PM

Quant Time: Oct 04 04:22:14 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.87  | 152  | 131910   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8          | 8.16  | 136  | 477158   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10        | 9.91  | 164  | 165203   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10        | 11.40 | 188  | 248076   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12            | 14.03 | 240  | 266756   | 20.00  | ng    | -0.05    |
| 86) Perylene-d12            | 15.51 | 264  | 269623   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 1081059  | 130.46 | ng    | -0.04    |
| 7) Phenol-d6                | 6.50  | 99   | 1252570  | 122.54 | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 717574   | 96.44  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 152409   | 112.74 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 928795   | 93.86  | ng    | -0.05    |
| 78) Terphenyl-d14           | 12.98 | 244  | 679960   | 57.97  | ng    | -0.05    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.52  | 94   | 33875    | 2.963  | ng    | 99       |
| 49) Dimethylphthalate       | 9.62  | 163  | 209359   | 16.791 | ng    | 99       |
| 70) Phenanthrene            | 11.42 | 178  | 52734    | 3.971  | ng    | 99       |
| 74) Fluoranthene            | 12.62 | 202  | 83677    | 6.223  | ng    | 96       |
| 77) Pyrene                  | 12.84 | 202  | 81003    | 3.982  | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.03 | 228  | 46564    | 2.883  | ng    | 92       |
| 82) Chrysene                | 14.06 | 228  | 44371    | 2.885  | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 15.07 | 252  | 60549m   | 3.652  | ng    |          |
| 89) Benzo(a)pyrene          | 15.44 | 252  | 45618    | 2.998  | ng    | # 96     |

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

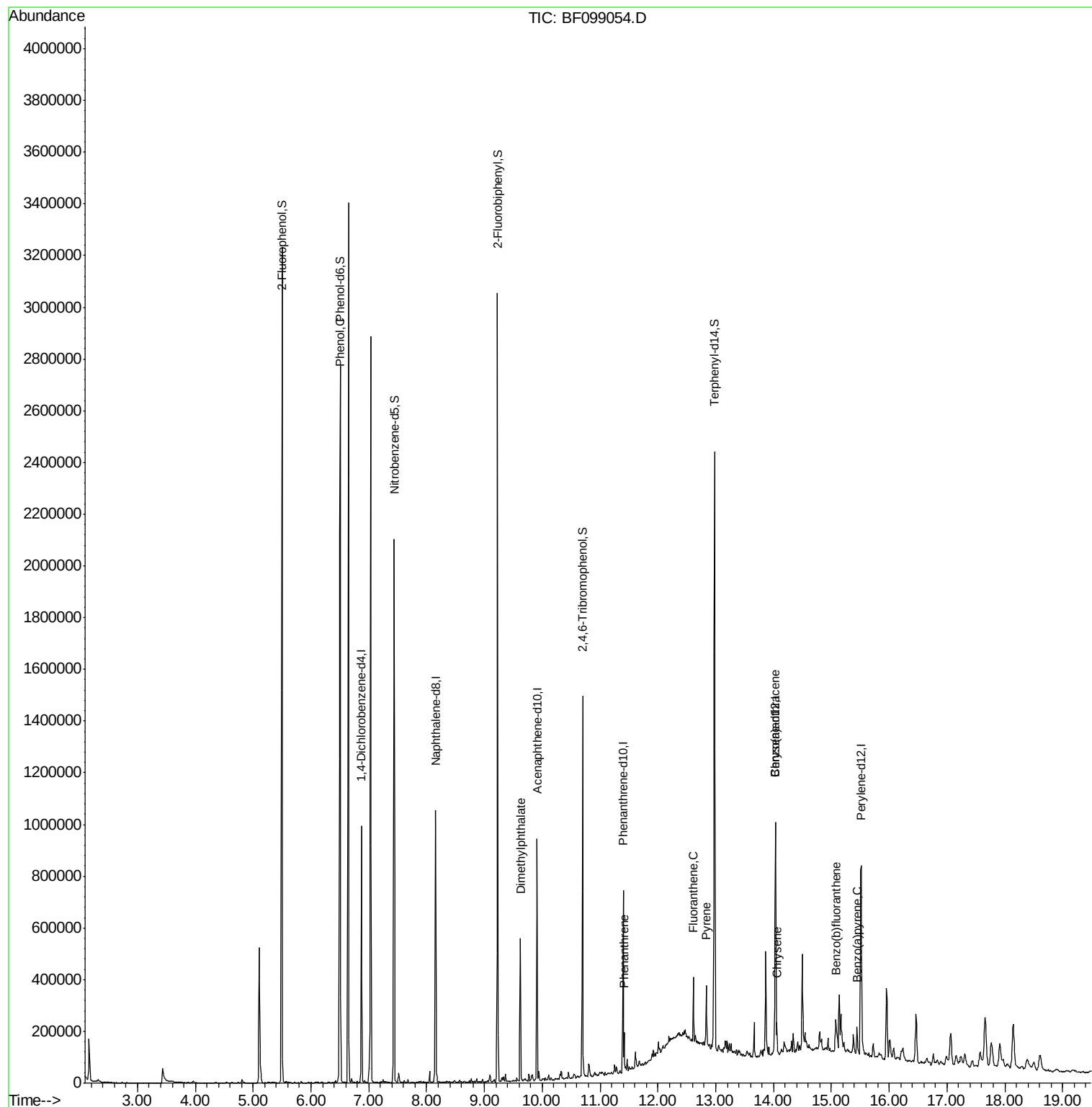
Data Path : Z:\HPCHEM1\BNA F\DATA\BF100317\  
Data File : BF099054.D  
Acq On : 4 Oct 2017 2:20  
Operator : SJ/JU  
Sample : I5610-04  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

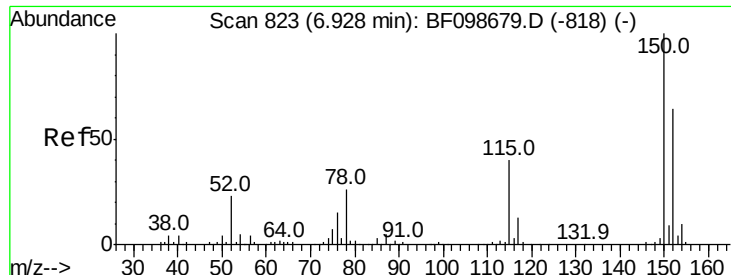
Instrument :  
BNA\_F  
ClientSampleId :  
2B-(1-2)-COMP-(0-5)

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Quant Time: Oct 04 04:22:14 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 23 13:50:58 2017  
Response via : Initial Calibration





#1

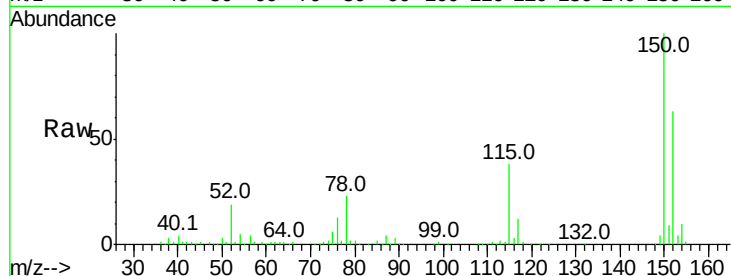
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 814  
Delta R.T. -0.05 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

Instrument :  
BNA\_F  
ClientSampleId :  
2B-(1-2)-COMP-(0-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.6 | 124.6 | 186.8 |
| 115     | 60.9  | 50.1  | 75.1  |

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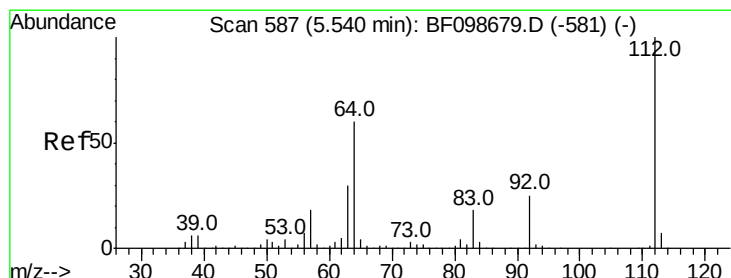
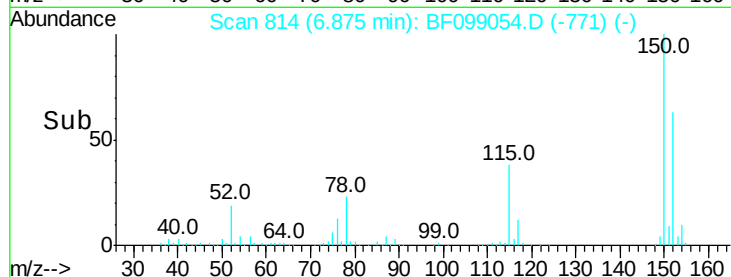
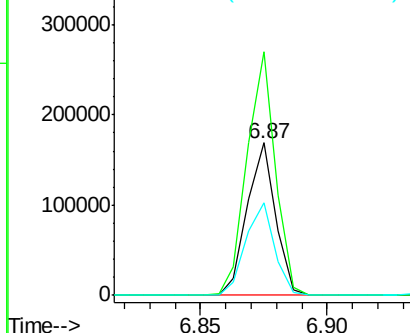


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

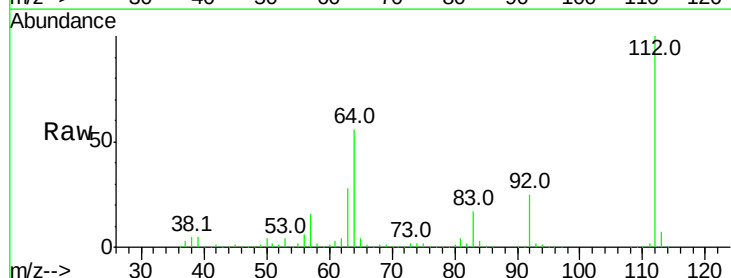
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 130.463 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.04 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.2  | 47.9  | 71.9  |
| 63      | 27.9  | 23.7  | 35.5  |

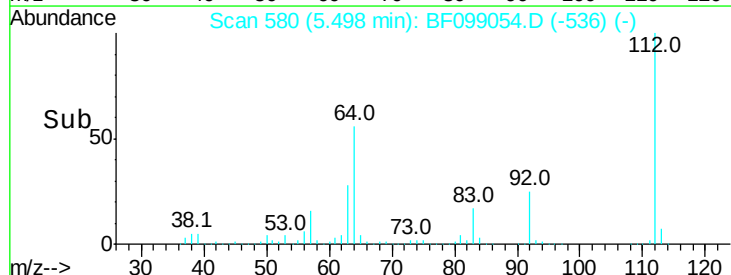
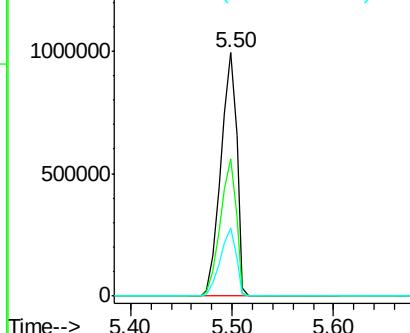


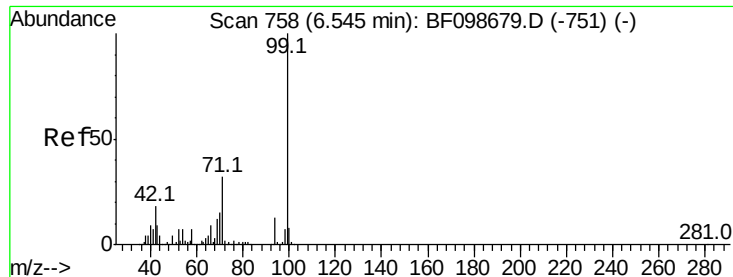
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 122.535 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.04 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

Instrument :

BNA\_F

ClientSampleId :

2B-(1-2)-COMP-(0-5)

Tot Ion: 99 Resp: 1252570

Ion Ratio Lower Upper

99 100

42 17.0 14.5 21.7

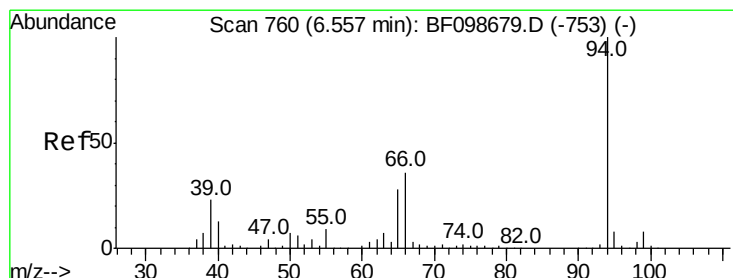
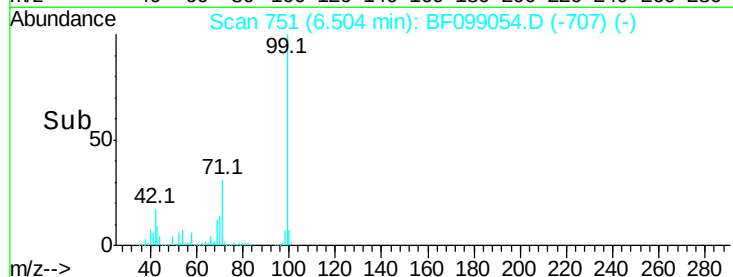
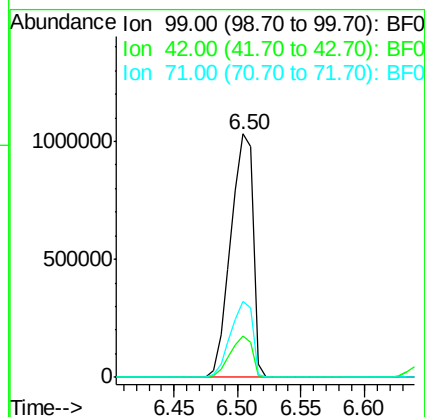
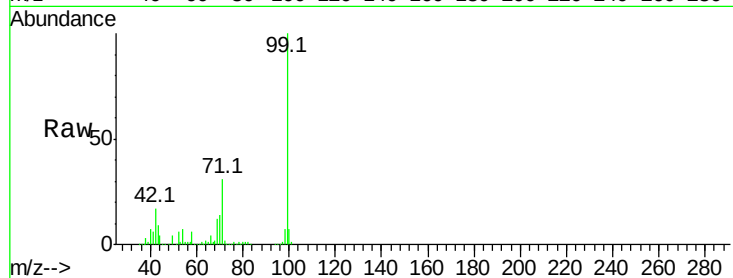
71 31.4 25.4 38.0

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#10

Phenol

Concen: 2.963 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.04 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

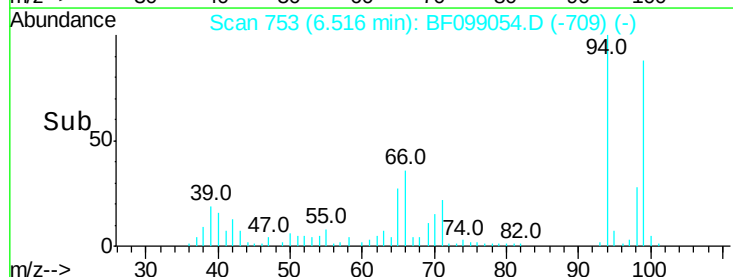
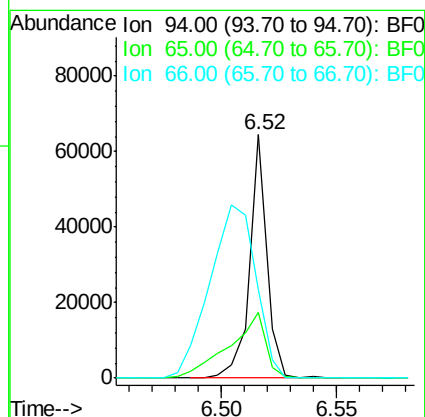
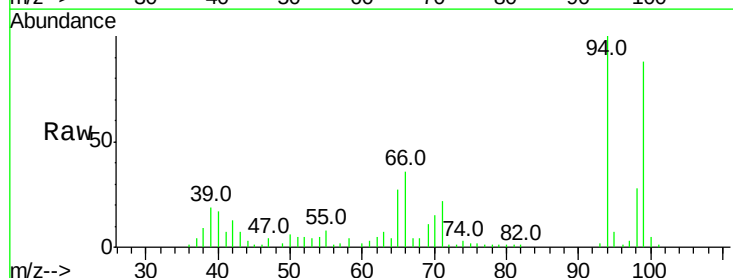
Tgt Ion: 94 Resp: 33875

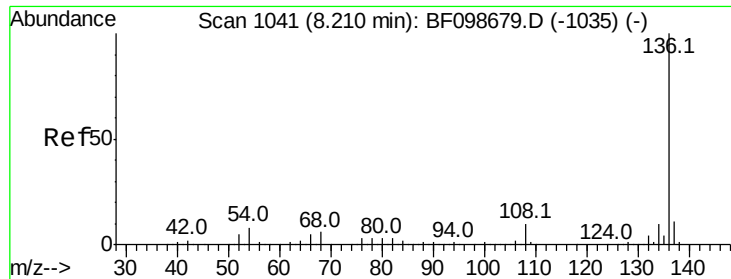
Ion Ratio Lower Upper

94 100

65 26.7 7.9 47.9

66 36.4 16.2 56.2





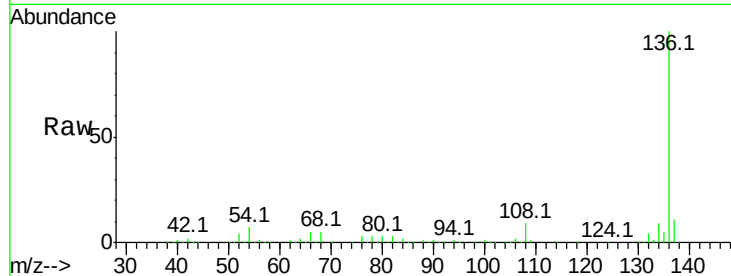
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. -0.05 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

Instrument :  
BNA\_F  
ClientSampleId :  
2B-(1-2)-COMP-(0-5)

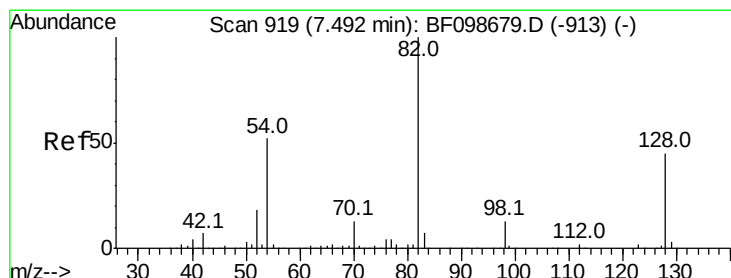
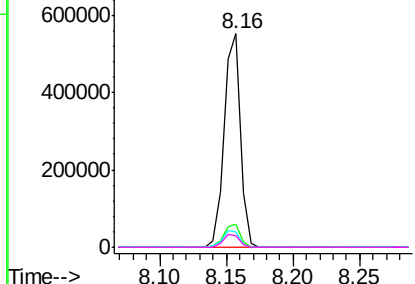
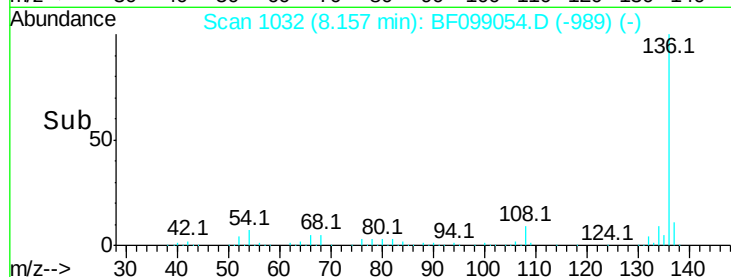
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.7  | 8.9  | 13.3  |       |
| 54      | 7.0   | 6.6  | 9.8   |       |
| 68      | 5.5   | 5.0  | 7.4   |       |

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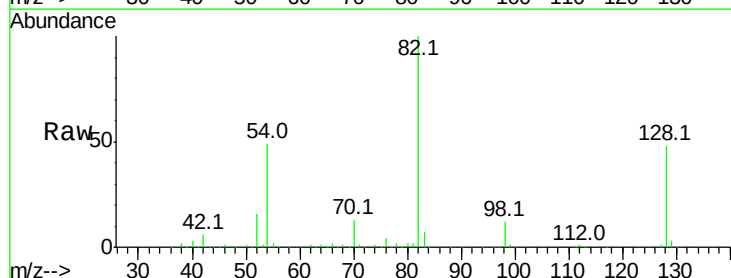


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

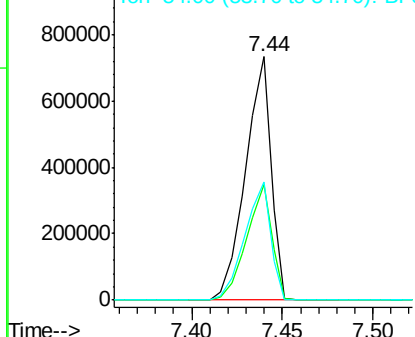
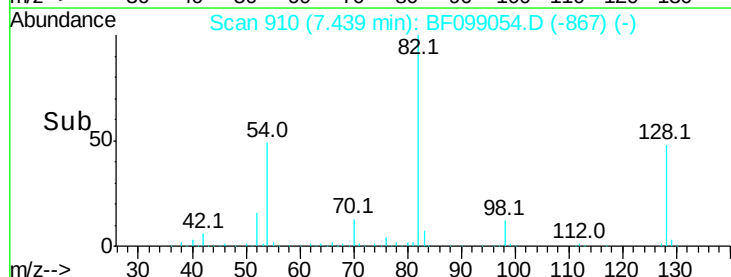


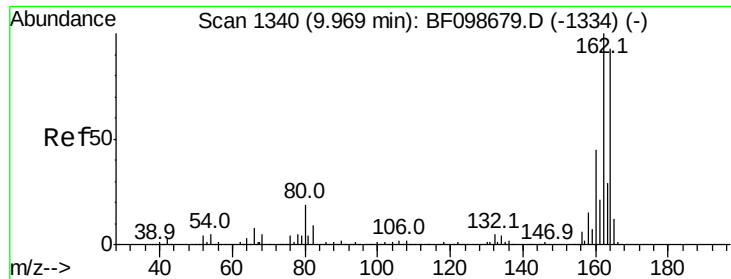
#23  
Nitrobenzene-d5  
Concen: 96.442 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.05 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 47.7  | 36.1 | 54.1  |       |
| 54      | 48.6  | 41.4 | 62.2  |       |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





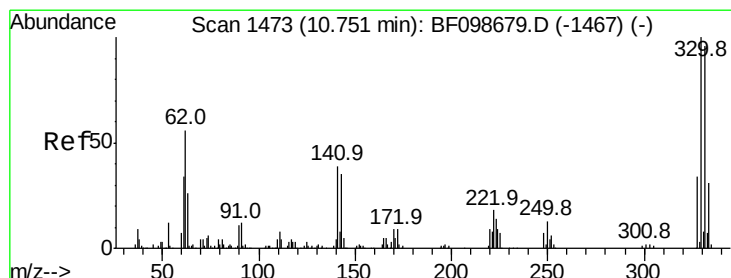
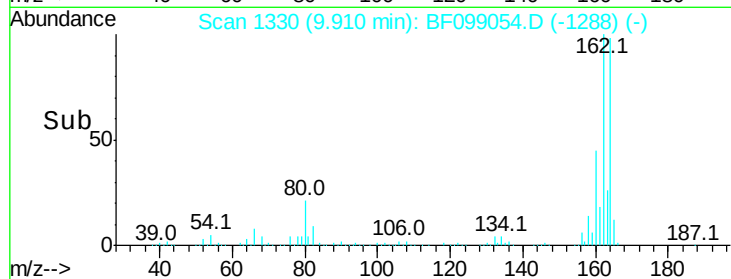
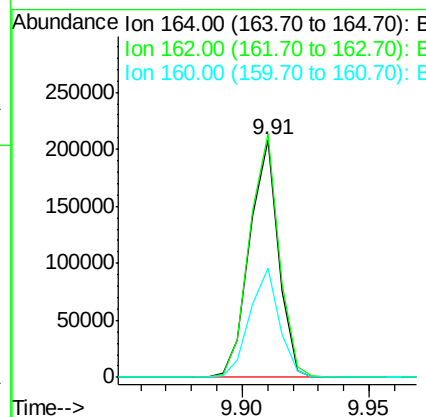
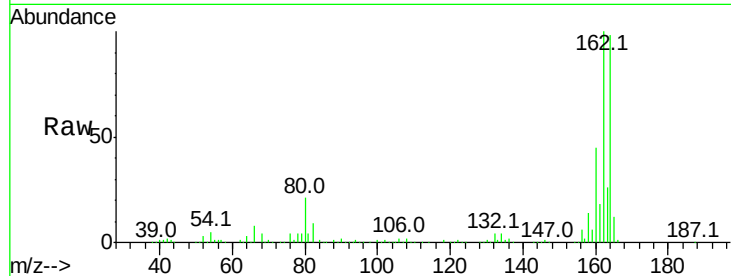
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.05 min  
 Lab File: BF099054.D  
 Acq: 4 Oct 2017 2:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2B-(1-2)-COMP-(0-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.6 | 86.1  | 129.1 |
| 160     | 45.9  | 38.3  | 57.5  |

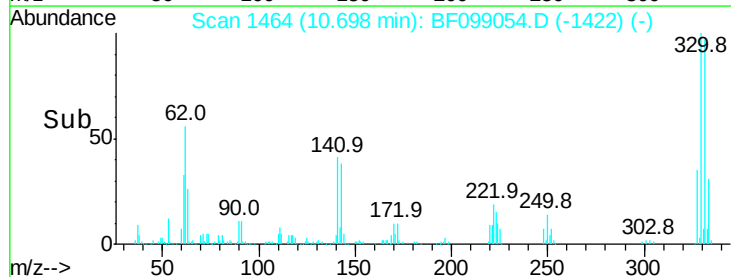
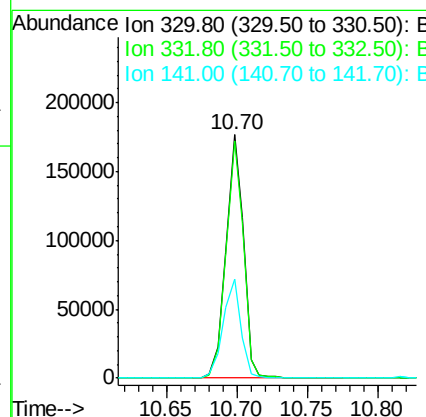
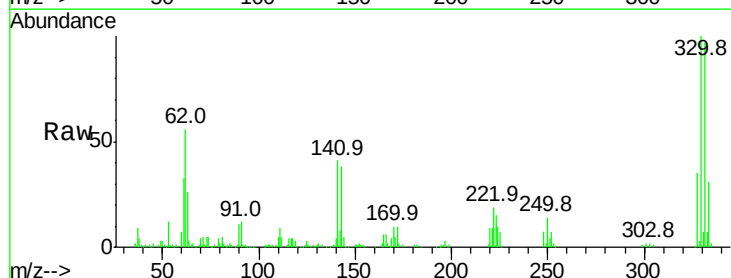
Manual Integrations  
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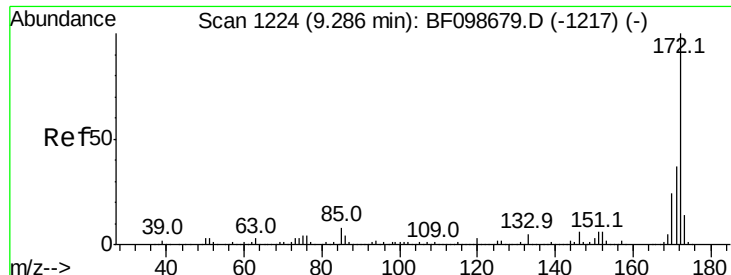
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#41  
 2,4,6-Tribromophenol  
 Concen: 112.745 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.05 min  
 Lab File: BF099054.D  
 Acq: 4 Oct 2017 2:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 77.0  | 115.6 |
| 141     | 41.6  | 29.9  | 44.9  |





#44

2-Fluorobiphenyl

Concen: 93.857 ng

RT: 9.23 min Scan# 1214

Delta R.T. -0.05 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

Instrument :

BNA\_F

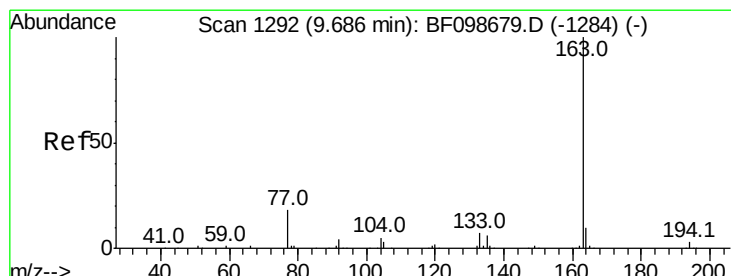
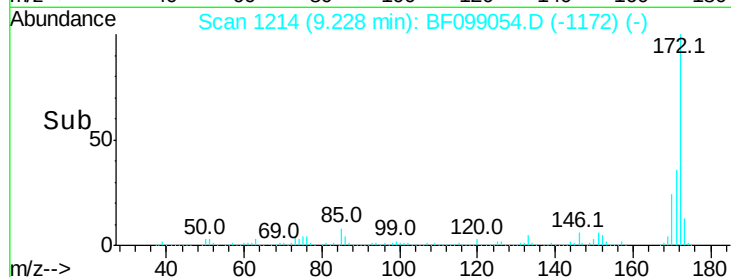
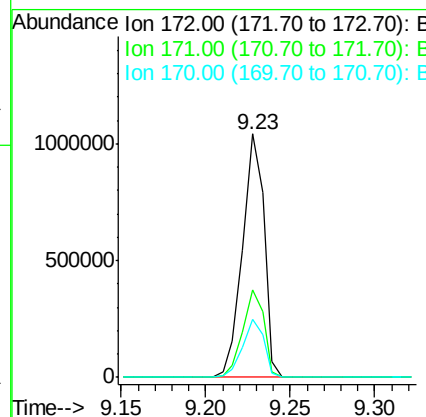
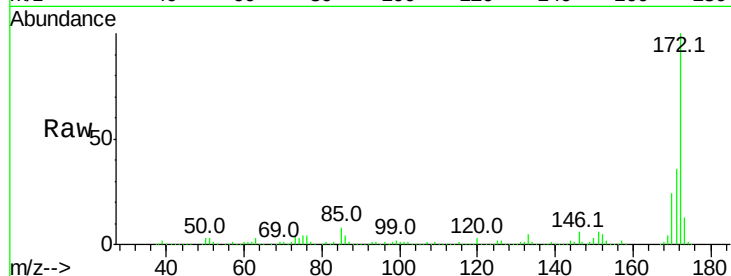
ClientSampleId :

2B-(1-2)-COMP-(0-5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 172   | Resp: | 928795 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.1  | 29.7  | 44.5   |
| 170       | 24.0  | 19.6  | 29.4   |

Manual Integrations  
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#49

Dimethylphthalate

Concen: 16.791 ng

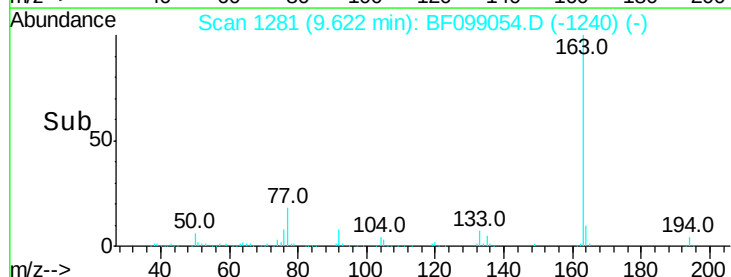
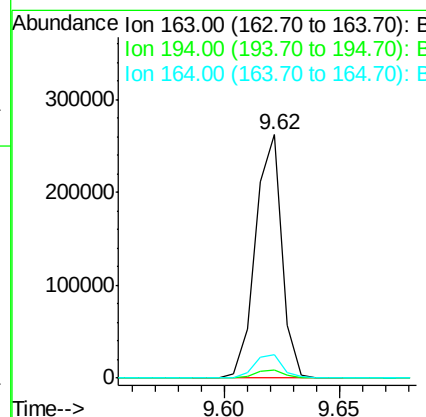
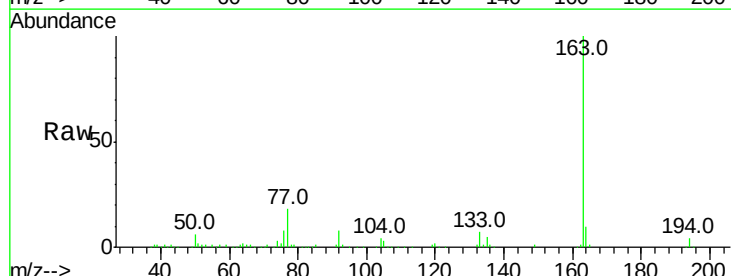
RT: 9.62 min Scan# 1281

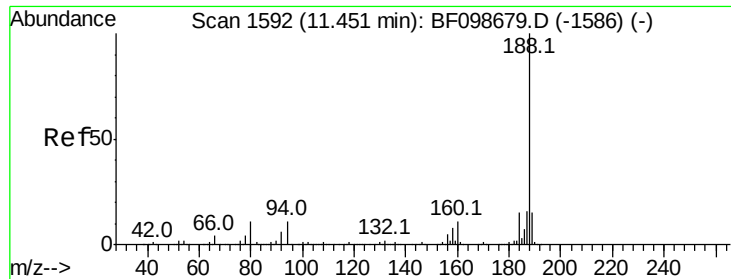
Delta R.T. -0.06 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 209359 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.5   | 2.7   | 4.1    |
| 164       | 9.9   | 8.2   | 12.2   |





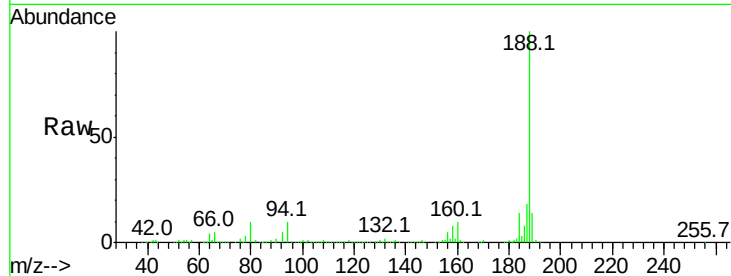
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.05 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

Instrument :  
BNA\_F  
ClientSampleId :  
2B-(1-2)-COMP-(0-5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.9   | 8.5        | 12.7  |
| 80      | 10.0  | 9.2        | 13.8  |

Manual Integrations  
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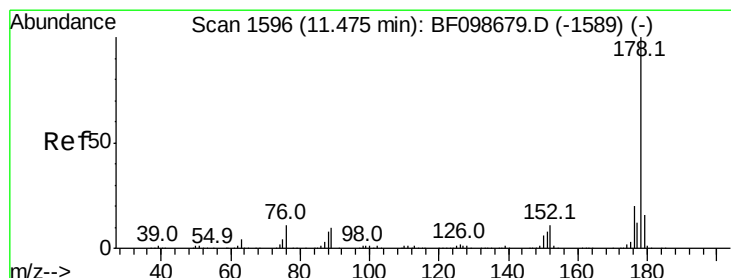
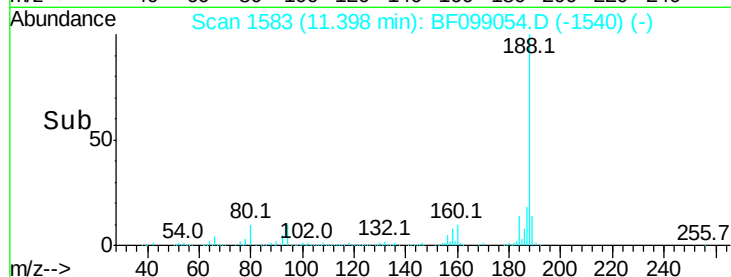
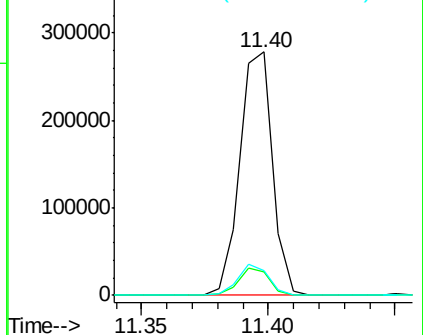
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



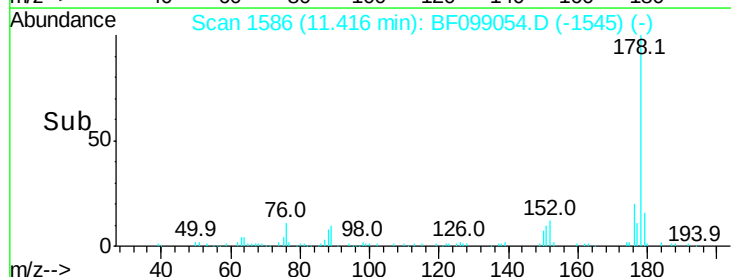
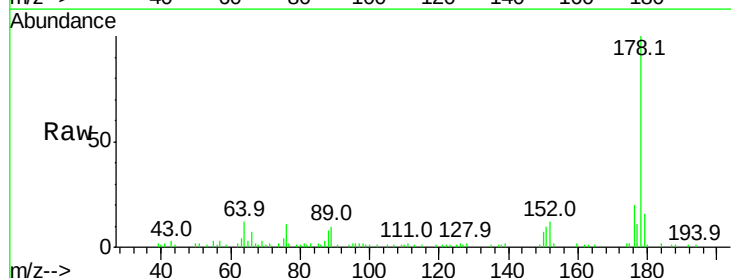
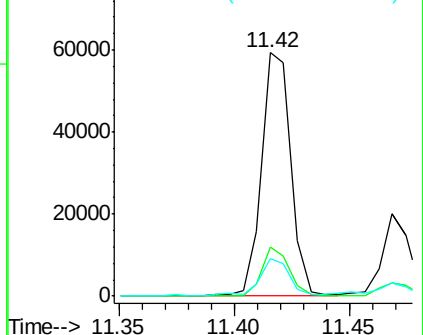
#70  
Phenanthrene  
Concen: 3.971 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.06 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.9  | 15.8       | 23.8  |
| 179     | 15.5  | 13.0       | 19.6  |

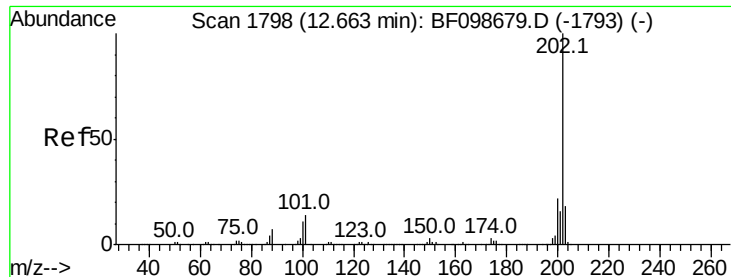
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#74

Fluoranthene

Concen: 6.223 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.05 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

Instrument :

BNA\_F

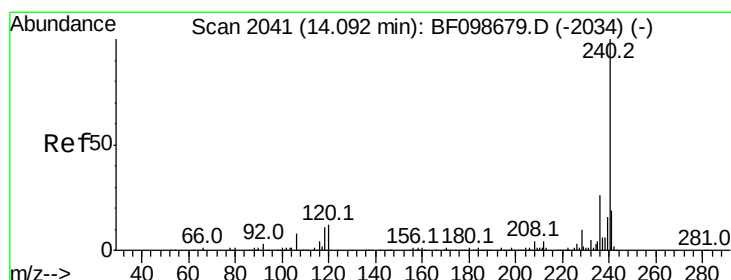
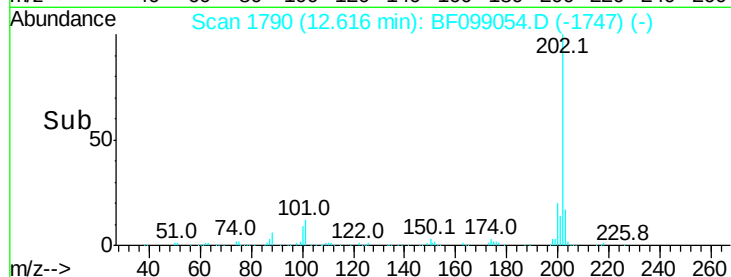
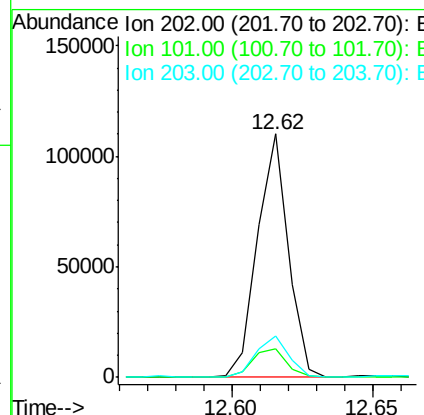
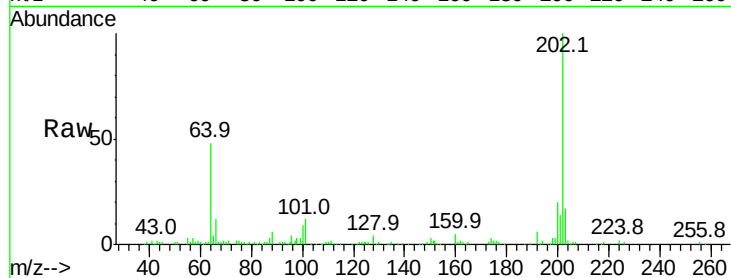
ClientSampleId :

2B-(1-2)-COMP-(0-5)

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 83677 |       |       |
| 101     | 11.5  | 0.0   | 34.1  |       |
| 203     | 17.2  | 0.0   | 38.1  |       |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.000 ng

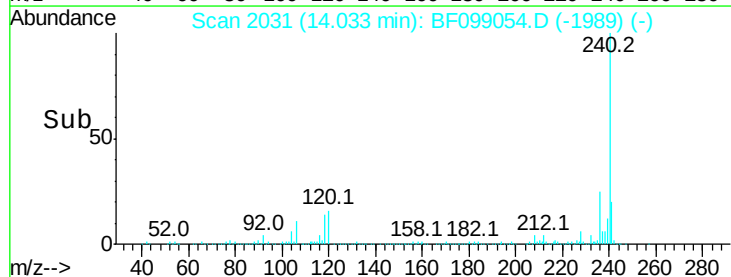
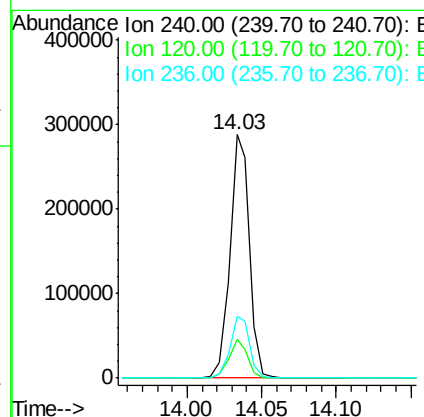
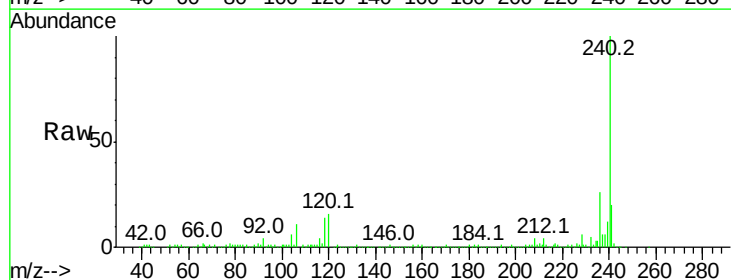
RT: 14.03 min Scan# 2031

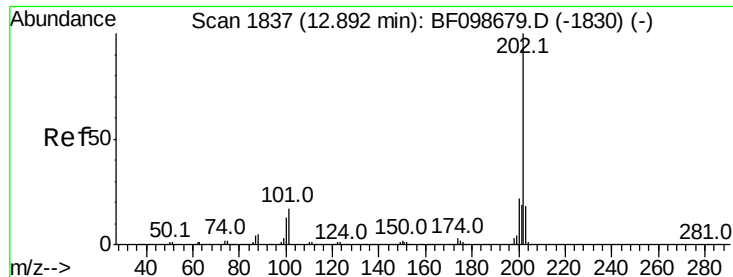
Delta R.T. -0.05 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 266756 |       |       |
| 120     | 15.9  | 9.5    | 14.3# |       |
| 236     | 25.7  | 20.7   | 31.1  |       |





#77

Pvrene

Concen: 3.982 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.05 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

Instrument :

BNA\_F

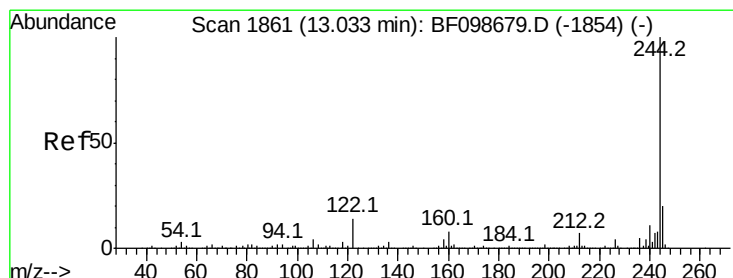
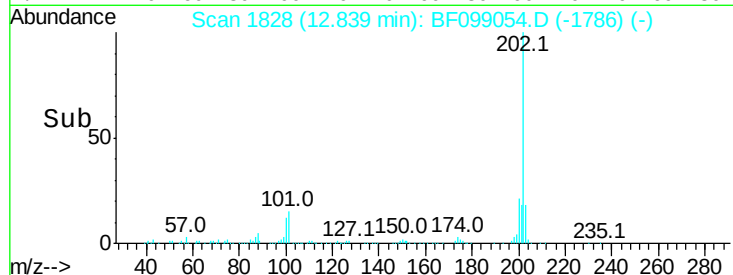
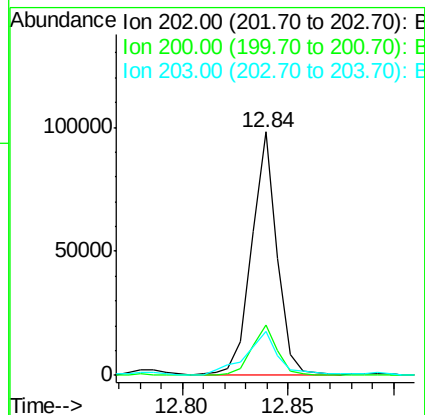
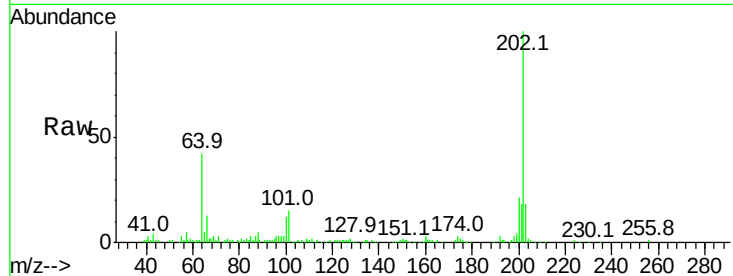
ClientSampleId :

2B-(1-2)-COMP-(0-5)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 81003 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.9  | 17.4  | 26.2  |
| 203       | 18.0  | 14.3  | 21.5  |

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#78

Terphenyl-d14

Concen: 57.969 ng

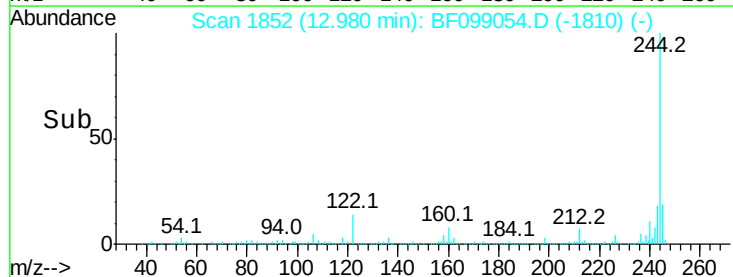
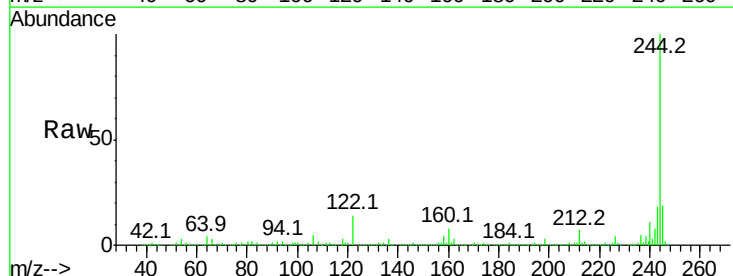
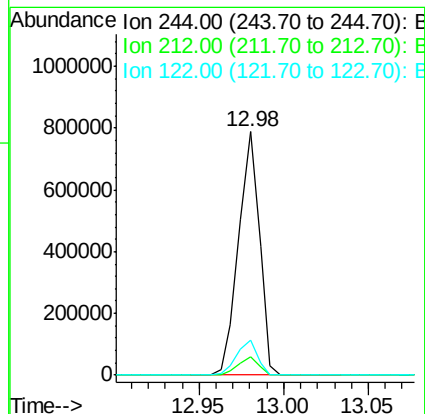
RT: 12.98 min Scan# 1852

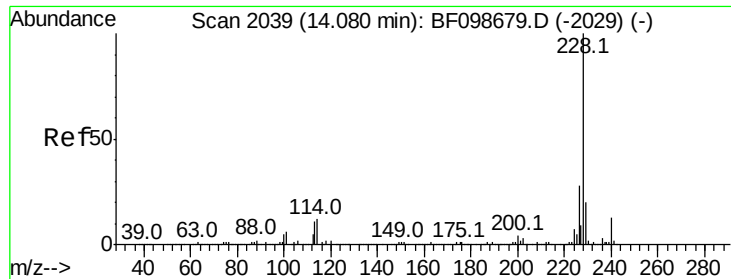
Delta R.T. -0.05 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 679960 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.4   | 5.4   | 8.0    |
| 122       | 14.3  | 11.0  | 16.4   |





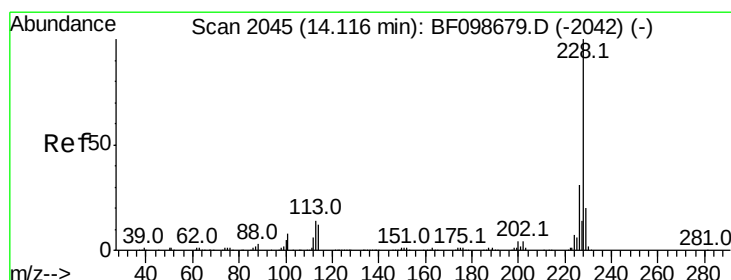
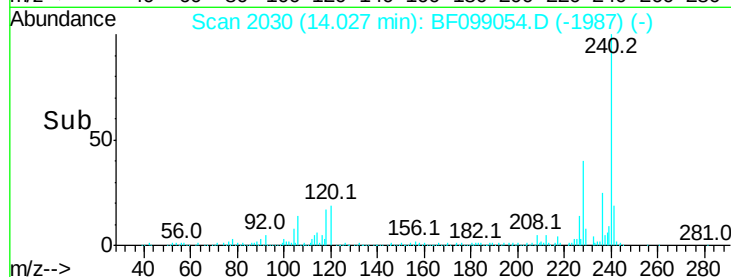
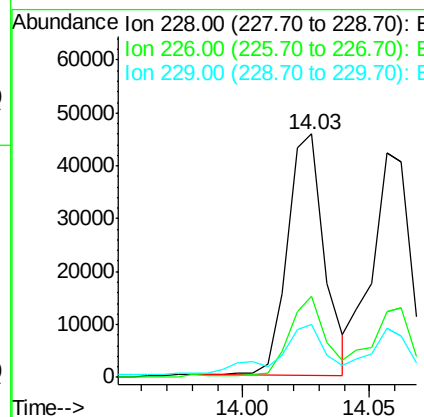
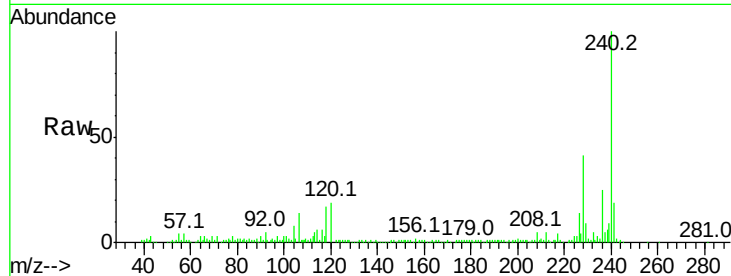
#80  
Benzo(a)anthracene  
Concen: 2.883 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.05 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

Instrument :  
BNA\_F  
ClientSampleId :  
2B-(1-2)-COMP-(0-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.3  | 22.6  | 33.8  |
| 229     | 21.9  | 15.8  | 23.6  |

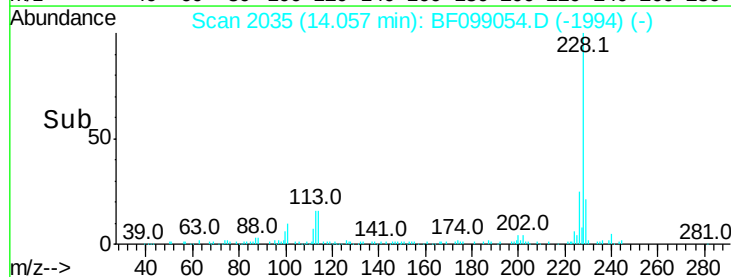
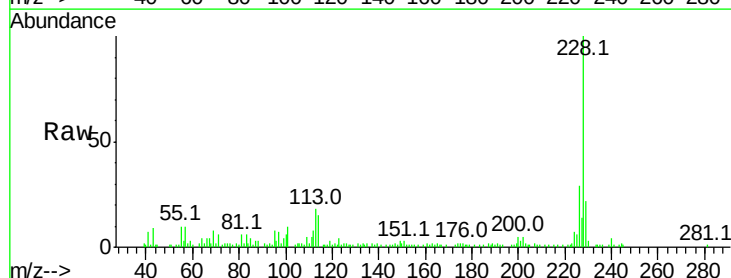
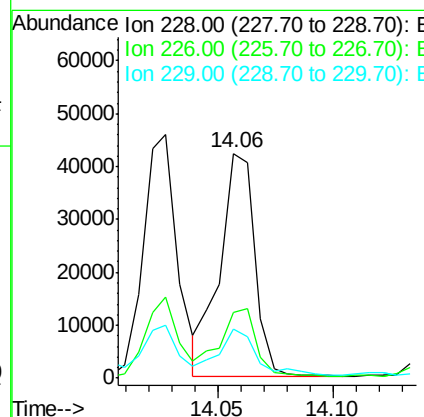
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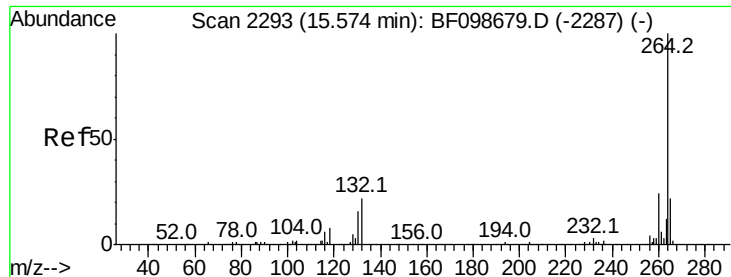
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#82  
Chrysene  
Concen: 2.885 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.06 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.0  | 25.0  | 37.6  |
| 229     | 21.6  | 16.2  | 24.4  |





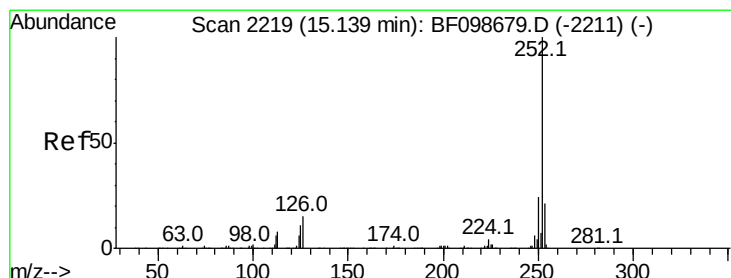
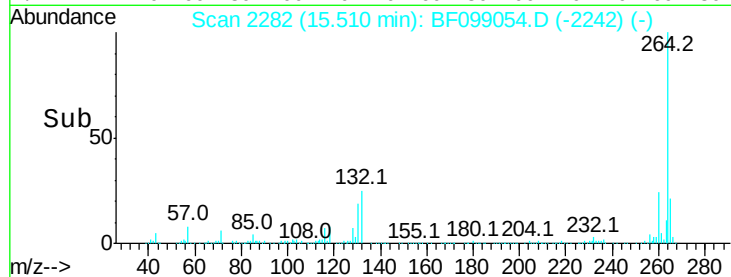
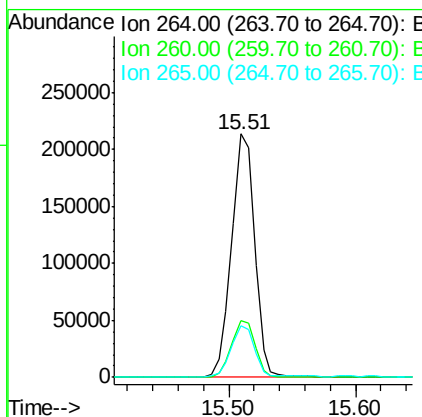
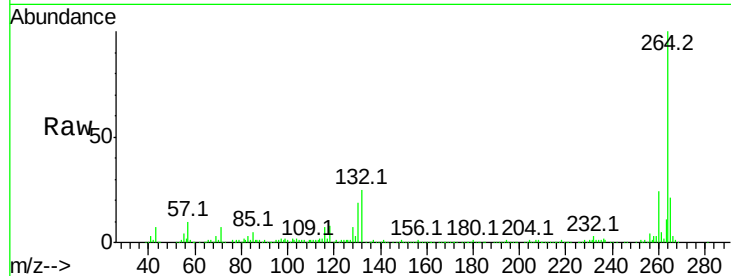
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.51 min Scan# 2282  
Delta R.T. -0.06 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

Instrument :  
BNA\_F  
ClientSampleId :  
2B-(1-2)-COMP-(0-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.5  | 17.5  | 26.3  |

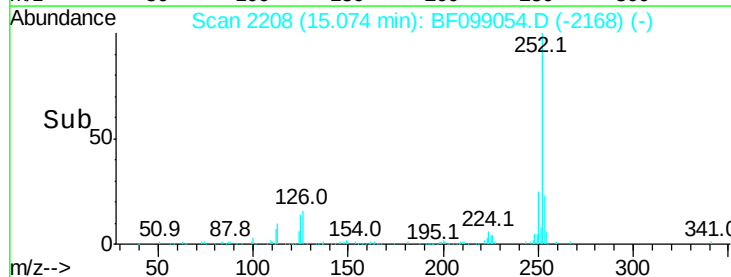
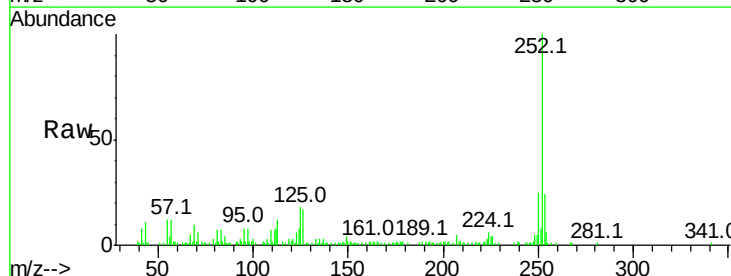
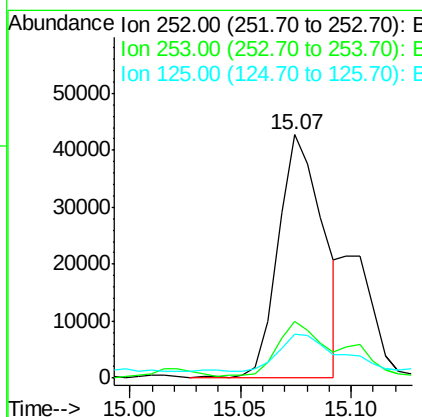
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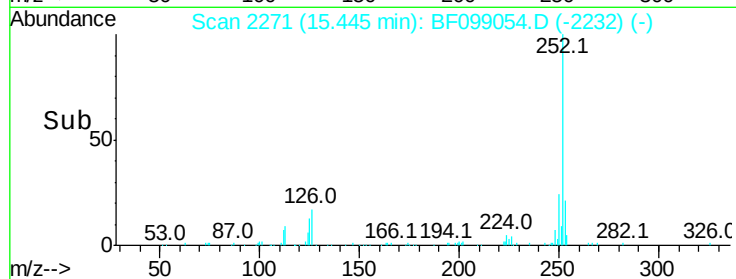
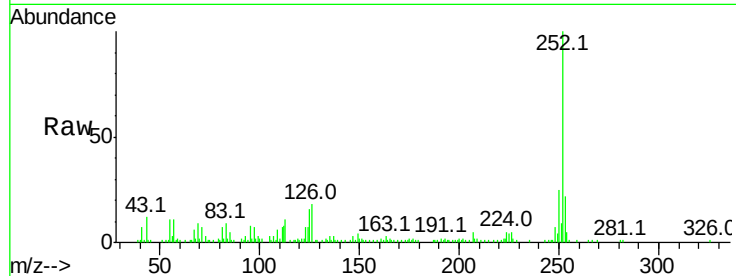
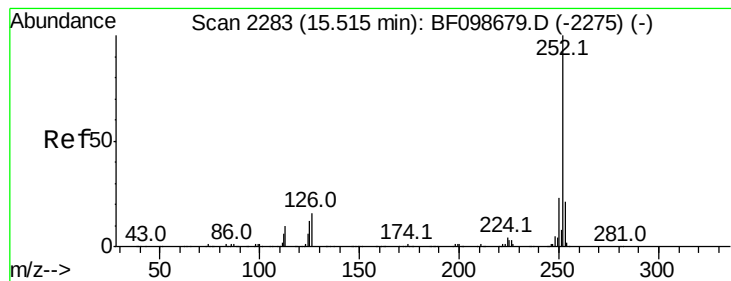
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#87  
Benzo(b)fluoranthene  
Concen: 3.652 ng m  
RT: 15.07 min Scan# 2208  
Delta R.T. -0.06 min  
Lab File: BF099054.D  
Acq: 4 Oct 2017 2:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.0  | 25.6  |
| 125     | 17.8  | 9.0   | 13.6  |





#89

Benzo(a)pyrene

Concen: 2.998 ng

RT: 15.44 min Scan# 2271

Delta R.T. -0.07 min

Lab File: BF099054.D

Acq: 4 Oct 2017 2:20

Instrument :

BNA\_F

ClientSampleId :

2B-(1-2)-COMP-(0-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.1  | 25.7  |
| 125     | 15.8  | 9.8   | 14.6  |

Manual Integrations  
APPROVED

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