

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\  
 Data File : BF092271.D  
 Acq On : 14 Jan 2017 4:58  
 Operator : UM/SJ  
 Sample : I1182-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TOD-BC-0.2

Manual Integrations  
 APPROVED

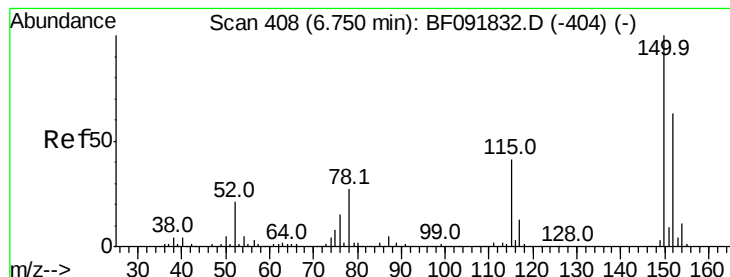
Sohil  
 1/16/2017 8:39:32 AM

Quant Time: Jan 16 03:13:45 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 16 01:02:36 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.58  | 152  | 188597   | 20.00 | ng    | -0.01     |
| 21) Naphthalene-d8             | 7.87  | 136  | 666227   | 20.00 | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.60  | 164  | 258296   | 20.00 | ng    | -0.02     |
| 63) Phenanthrene-d10           | 11.09 | 188  | 358412   | 20.00 | ng    | -0.01     |
| 75) Chrysene-d12               | 13.72 | 240  | 324839   | 20.00 | ng    | -0.01     |
| 86) Perylene-d12               | 15.07 | 264  | 266606   | 20.00 | ng    | -0.02     |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 5.17  | 112  | 978760   | 86.65 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.24  | 99   | 1074680  | 77.93 | ng    | -0.01     |
| 23) Nitrobenzene-d5            | 7.15  | 82   | 769764   | 64.25 | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.40 | 330  | 189458   | 88.63 | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 8.94  | 172  | 921311   | 70.95 | ng    | -0.01     |
| 78) Terphenyl-d14              | 12.67 | 244  | 616753   | 46.05 | ng    | -0.02     |
| Target Compounds               |       |      |          |       |       |           |
| 10) Phenol                     | 6.26  | 94   | 52124    | 3.32  | ng    | Qvalue 77 |
| 49) Dimethylphthalate          | 9.34  | 163  | 188376   | 11.40 | ng    | 99        |
| 70) Phenanthrene               | 11.11 | 178  | 161041   | 8.29  | ng    | 95        |
| 74) Fluoranthene               | 12.29 | 202  | 268007   | 13.00 | ng    | 96        |
| 77) Pyrene                     | 12.52 | 202  | 241442   | 10.13 | ng    | 97        |
| 80) Benzo(a)anthracene         | 13.71 | 228  | 140549   | 7.67  | ng    | 97        |
| 82) Chrysene                   | 13.74 | 228  | 116081m  | 6.31  | ng    |           |
| 83) Bis(2-ethylhexyl)phthalate | 13.72 | 149  | 39441    | 3.09  | ng    | # 96      |
| 85) Indeno(1,2,3-cd)pyrene     | 16.30 | 276  | 49036    | 3.08  | ng    | 95        |
| 87) Benzo(b)fluoranthene       | 14.71 | 252  | 165131m  | 9.95  | ng    |           |
| 89) Benzo(a)pyrene             | 15.02 | 252  | 95369    | 6.47  | ng    | 97        |
| 91) Benzo(a,h,i)perylene       | 16.67 | 276  | 45724    | 3.63  | ng    | # 92      |

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





#1

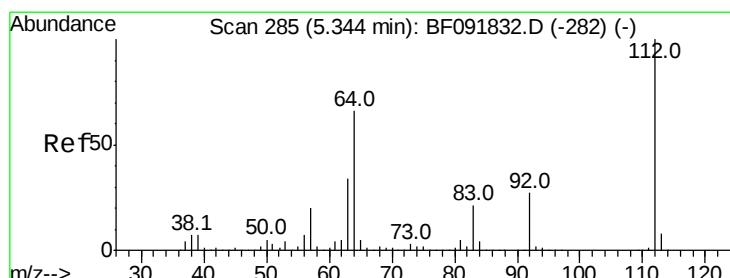
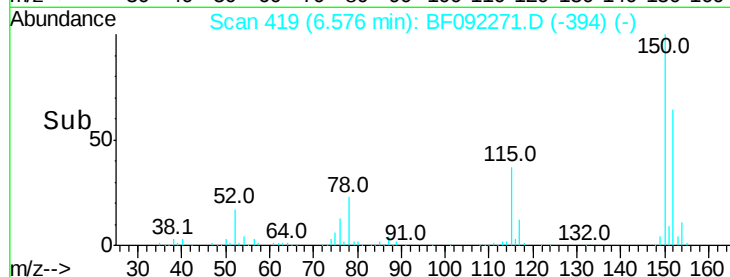
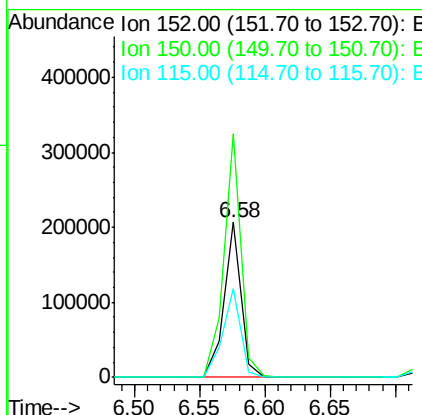
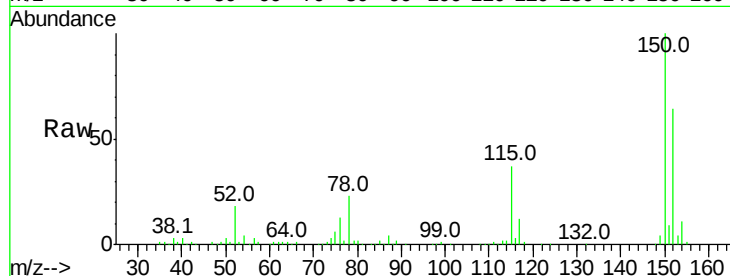
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.58 min Scan# 419  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 124.9 | 187.3 |
| 115     | 57.7  | 46.0  | 69.0  |

Manual Integrations  
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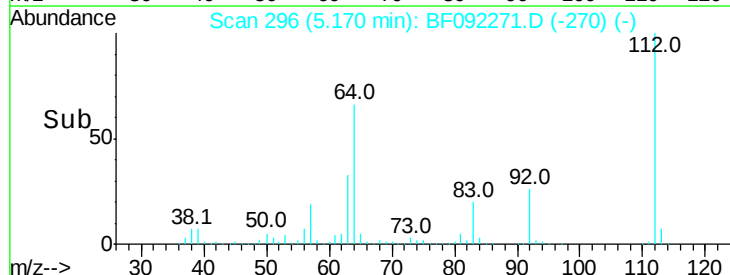
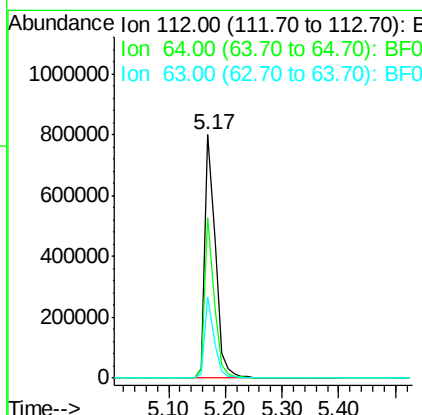
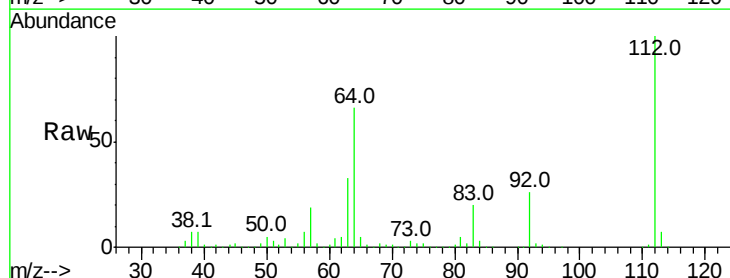
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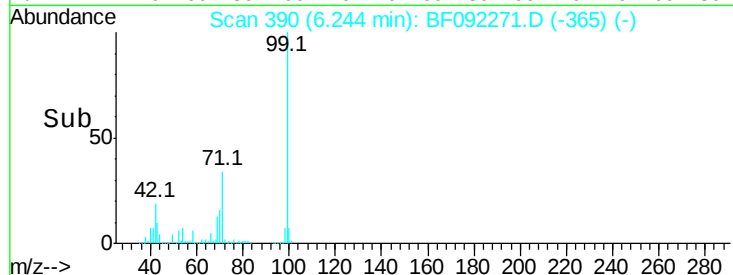
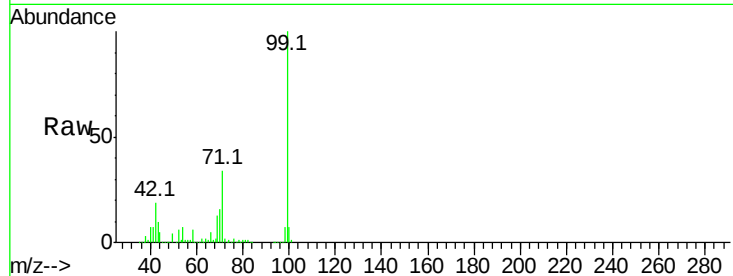
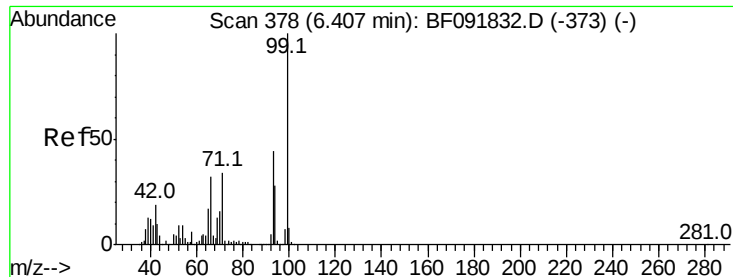


#5

2-Fluorophenol  
Concen: 86.65 ng  
RT: 5.17 min Scan# 296  
Delta R.T. 0.00 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.8  | 46.1  | 69.1  |
| 63      | 33.4  | 23.8  | 35.6  |





#7

Phenol-d6

Concen: 77.93 ng

RT: 6.24 min Scan# 390

Delta R.T. -0.01 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

Tot Ion: 99 Resp: 1074680

Ion Ratio Lower Upper

99 100

42 18.9 15.6 23.4

71 34.5 27.5 41.3

Instrument :

BNA\_F

ClientSampled :

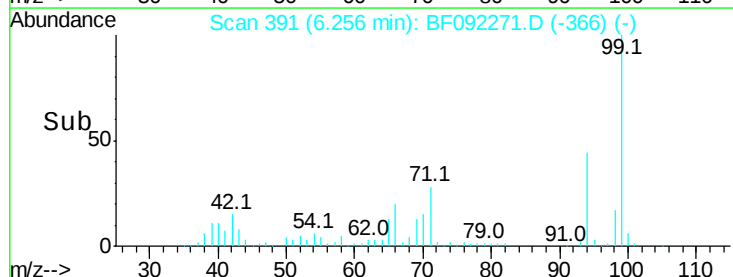
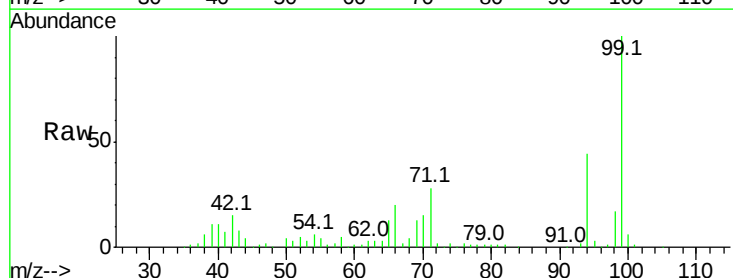
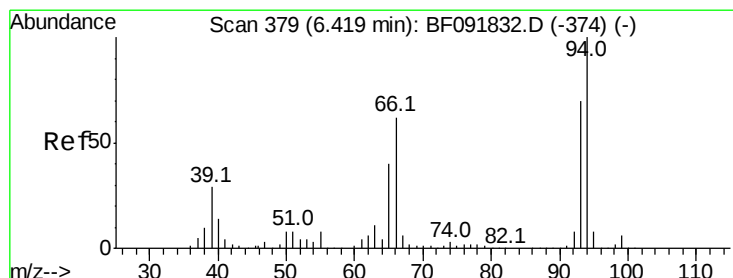
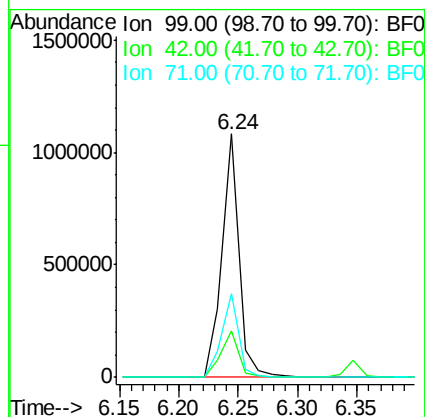
TOD-BC-0.2

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#10

Phenol

Concen: 3.32 ng

RT: 6.26 min Scan# 391

Delta R.T. -0.01 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

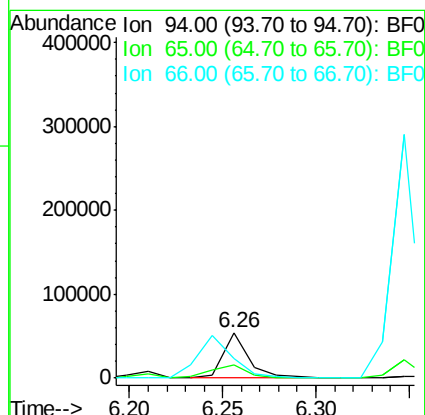
Tgt Ion: 94 Resp: 52124

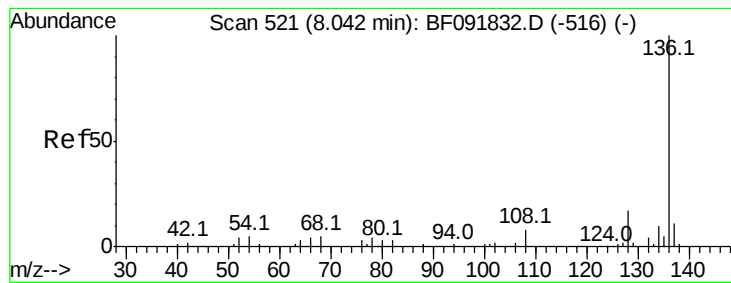
Ion Ratio Lower Upper

94 100

65 29.8 21.4 61.4

66 44.0 44.0 84.0





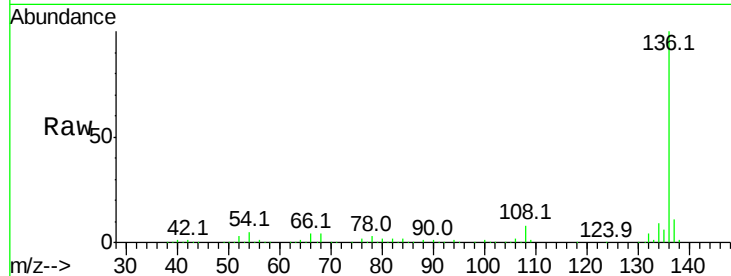
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.87 min Scan# 532  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

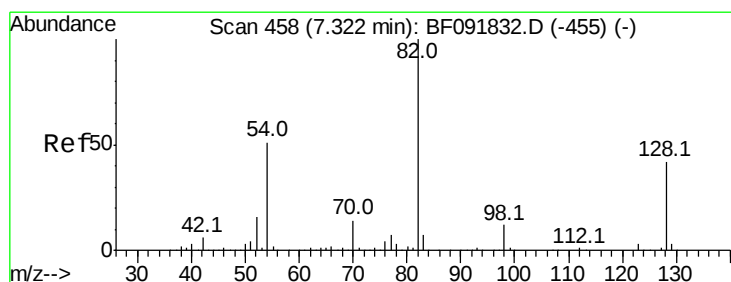
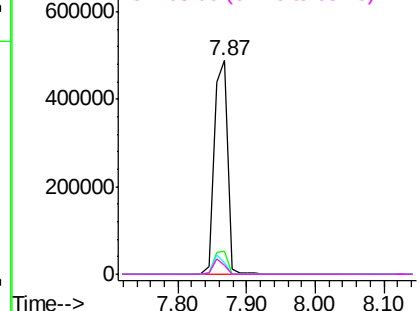
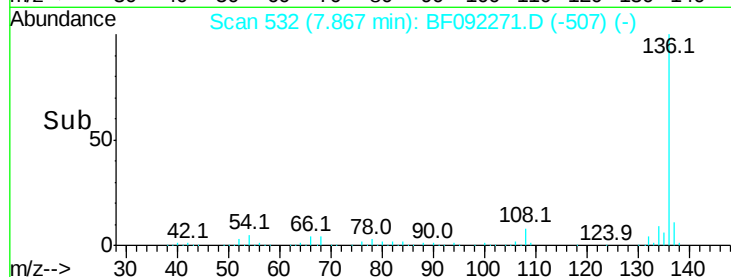
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 666227 |       |       |
| 137     | 10.6  |        | 8.4   | 12.6  |
| 54      | 5.3   |        | 4.5   | 6.7   |
| 68      | 4.2   |        | 3.6   | 5.4   |

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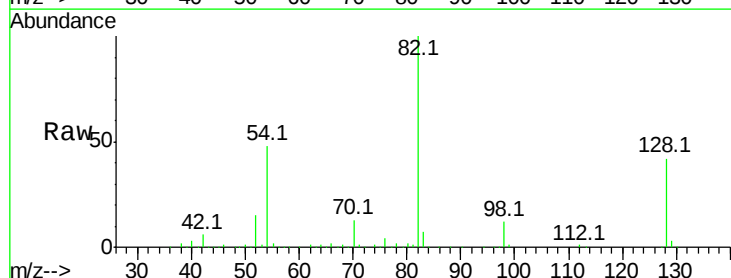


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

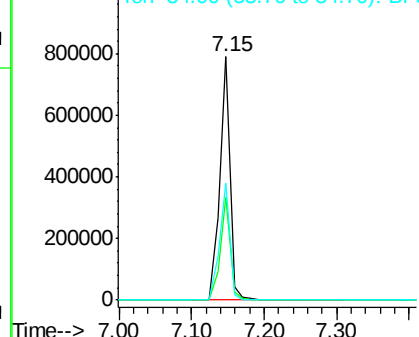
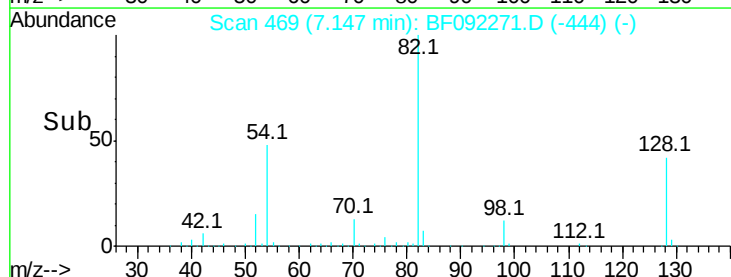


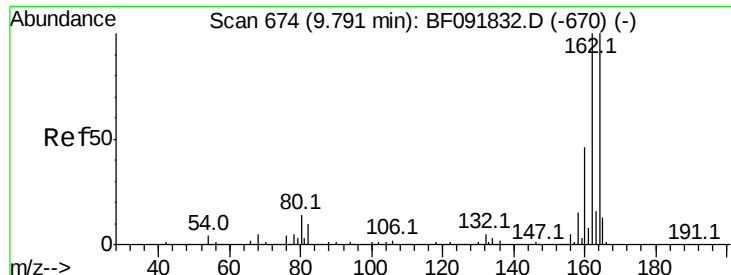
#23  
Nitrobenzene-d5  
Concen: 64.25 ng  
RT: 7.15 min Scan# 469  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 769764 |       |       |
| 128     | 42.3  |        | 34.6  | 52.0  |
| 54      | 48.2  |        | 39.5  | 59.3  |



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





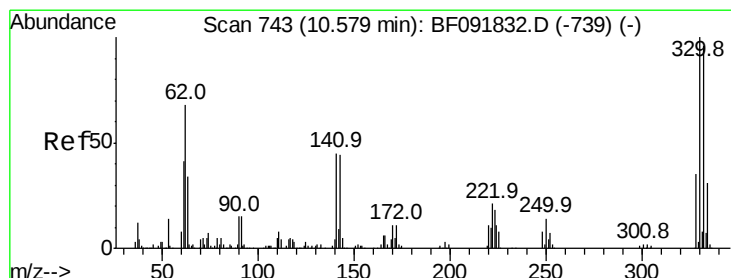
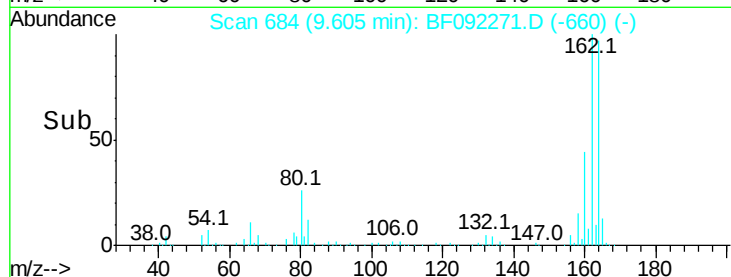
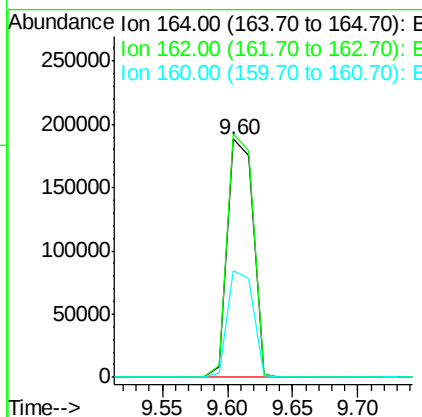
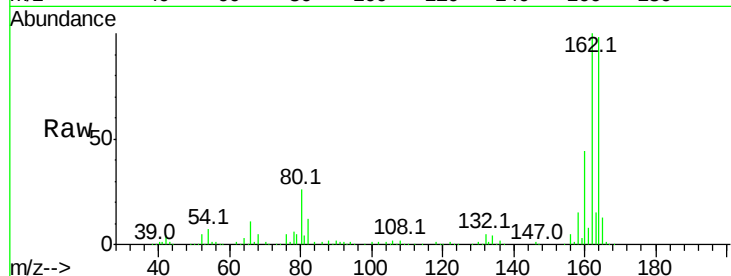
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.60 min Scan# 684  
Delta R.T. -0.02 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampled :  
TOD-BC-0.2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 258296 |       |       |
| 162     | 102.2 |        | 80.2  | 120.2 |
| 160     | 45.0  |        | 36.9  | 55.3  |

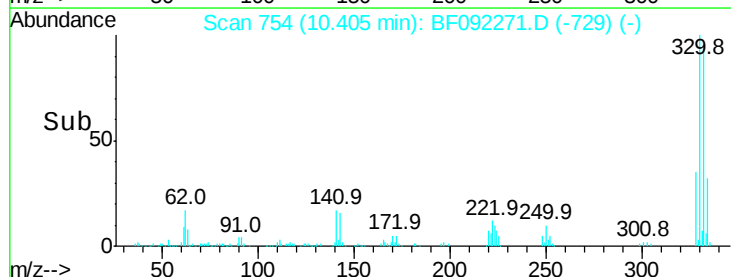
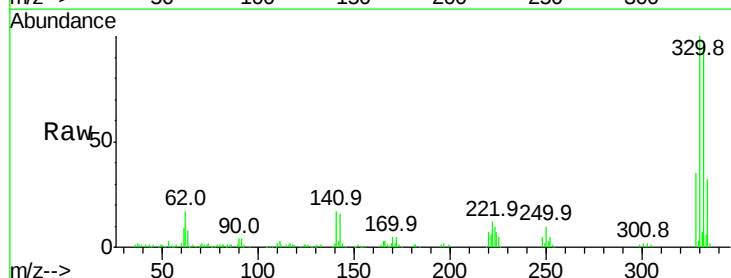
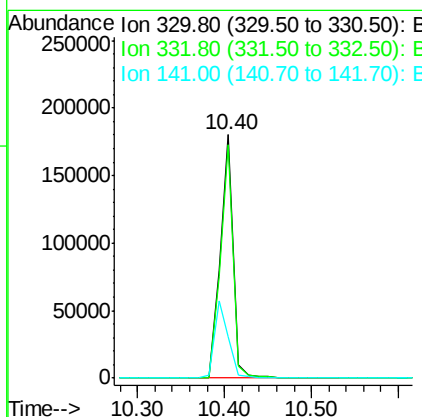
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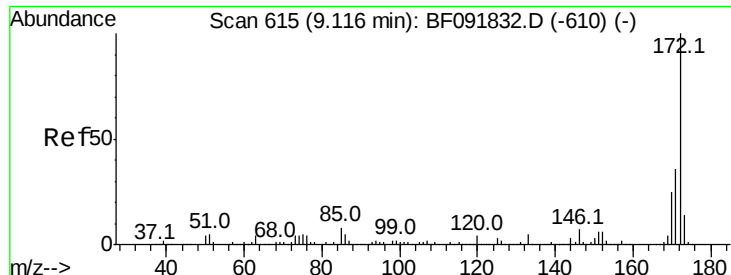
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#41  
2,4,6-Tribromophenol  
Concen: 88.63 ng  
RT: 10.40 min Scan# 754  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 189458 |       |       |
| 332     | 95.2  |        | 77.4  | 116.2 |
| 141     | 33.6  |        | 34.1  | 51.1# |





#44

2-Fluorobiphenyl

Concen: 70.95 ng

RT: 8.94 min Scan# 626

Delta R.T. -0.01 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

Instrument :

BNA\_F

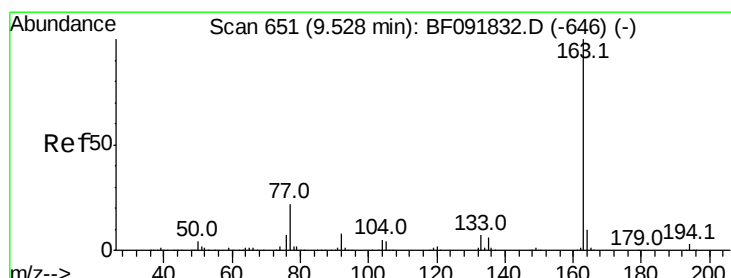
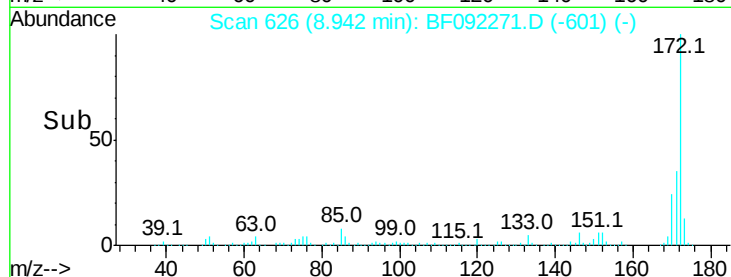
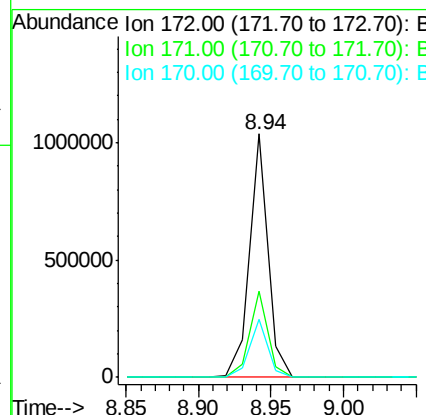
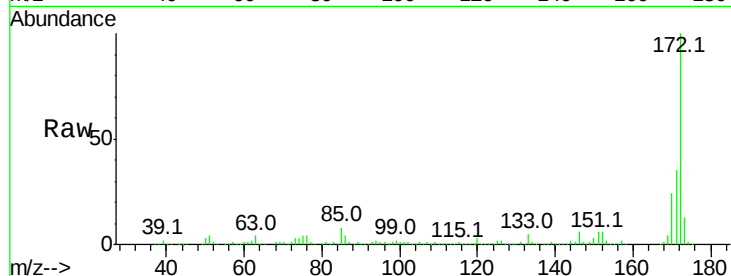
ClientSampleId :

TOD-BC-0.2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 172   | Resp: | 921311 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.4  | 29.4  | 44.0   |
| 170       | 23.9  | 20.2  | 30.4   |

Manual Integrations  
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#49

Dimethylphthalate

Concen: 11.40 ng

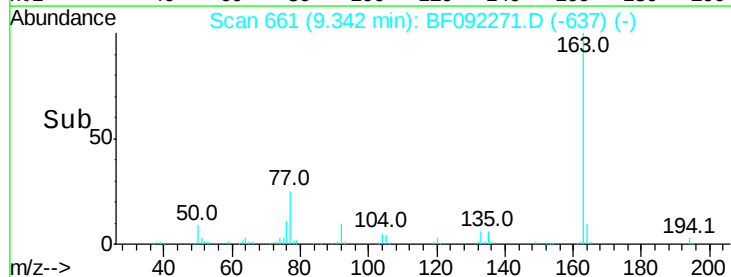
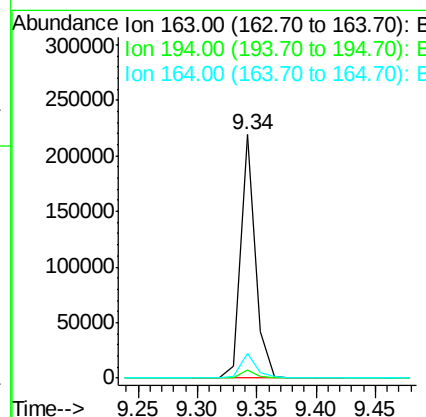
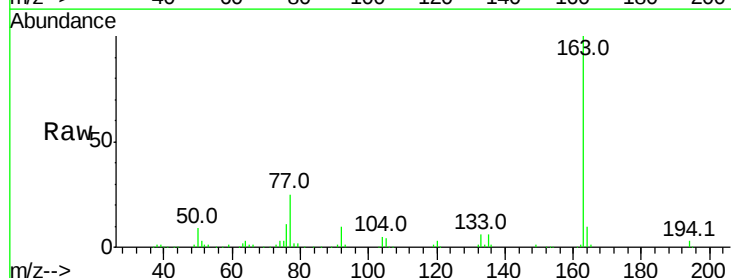
RT: 9.34 min Scan# 661

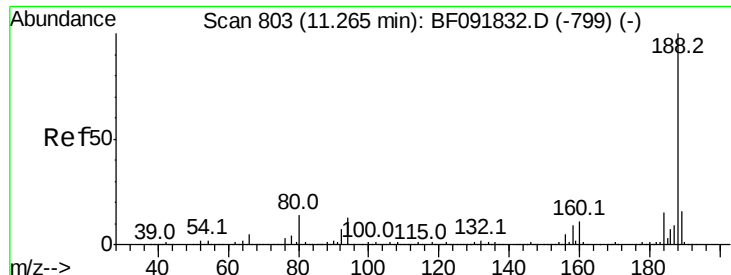
Delta R.T. -0.02 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 188376 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.1   | 3.0   | 4.4    |
| 164       | 10.3  | 8.0   | 12.0   |





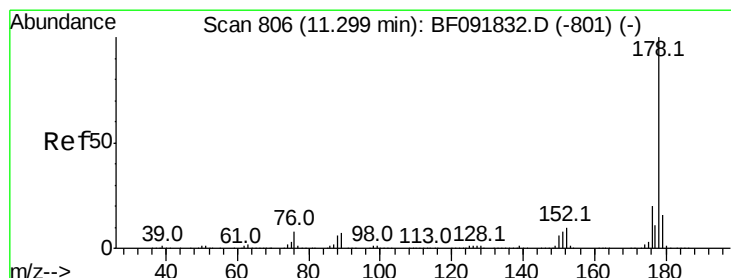
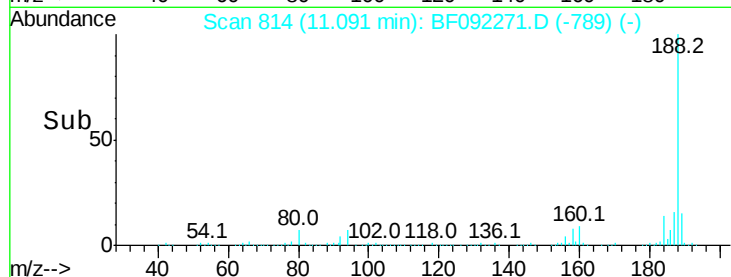
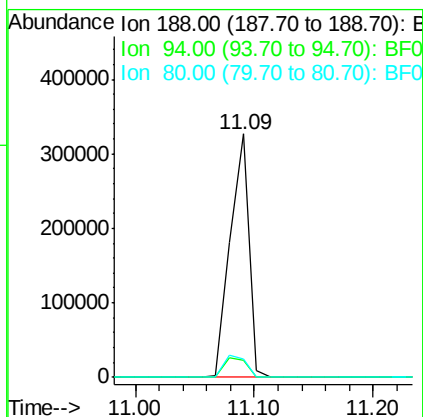
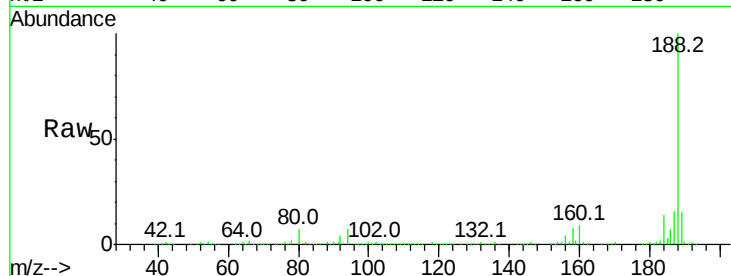
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.09 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 7.2   | 10.0 | 15.0# |       |
| 80      | 7.4   | 11.2 | 16.8# |       |

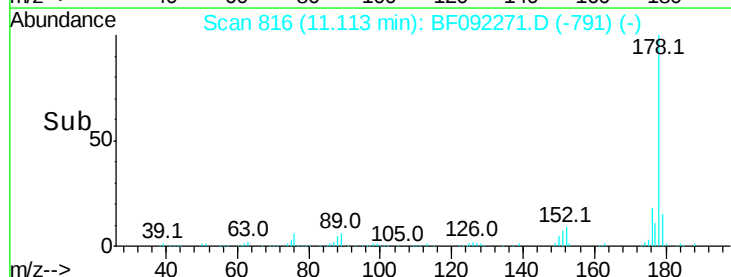
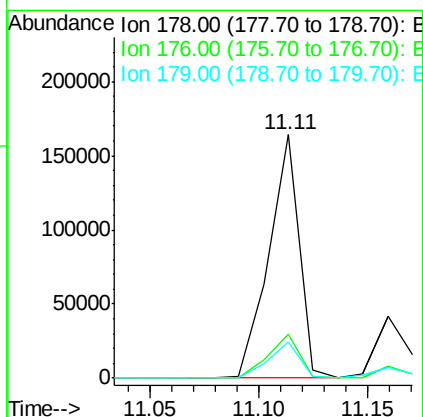
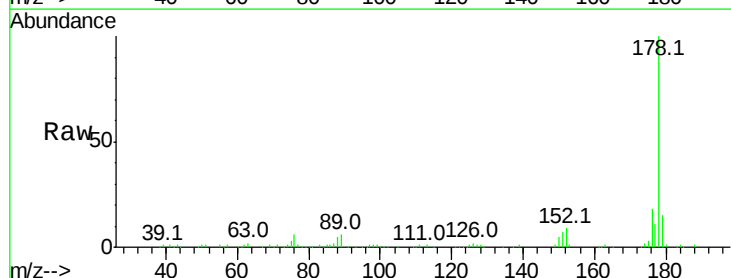
Manual Integrations  
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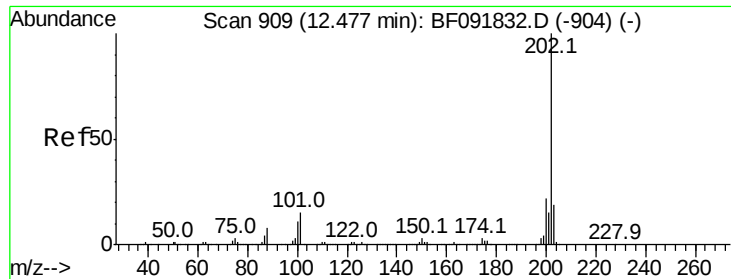
Sohil  
1/16/2017 8:39:32 AM



#70  
Phenanthrene  
Concen: 8.29 ng  
RT: 11.11 min Scan# 816  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   |      |       |       |
| 176     | 18.1  | 16.6 | 25.0  |       |
| 179     | 14.7  | 12.8 | 19.2  |       |





#74

Fluoranthene

Concen: 13.00 ng

RT: 12.29 min Scan# 919

Delta R.T. -0.01 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

Instrument :

BNA\_F

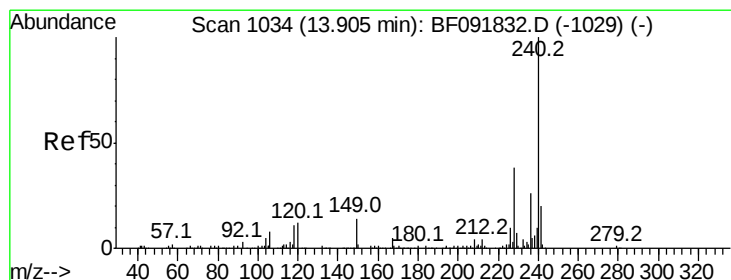
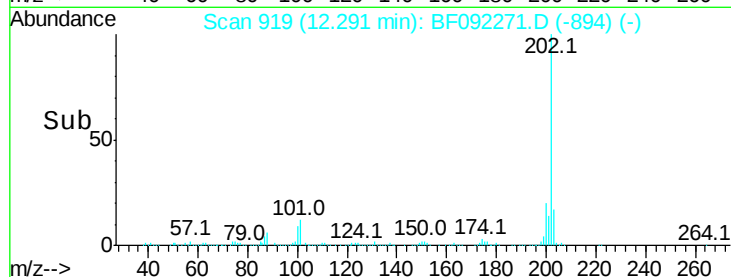
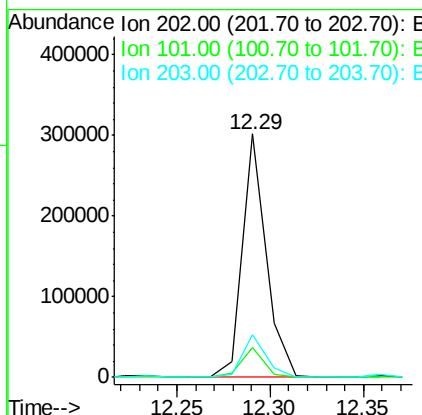
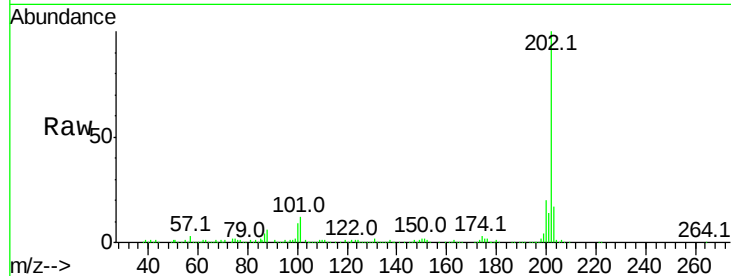
ClientSampleId :

TOD-BC-0.2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.2  | 0.0        | 34.6  |
| 203     | 17.4  | 0.0        | 38.7  |

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#75

Chrysene-d12

Concen: 20.00 ng

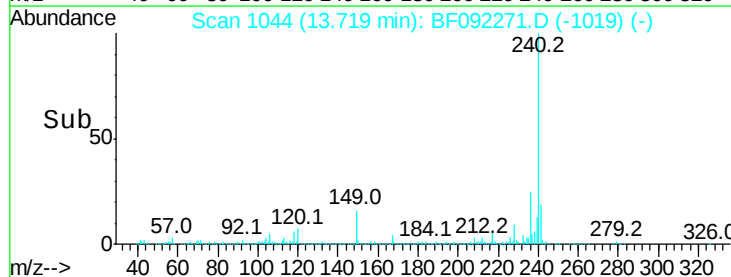
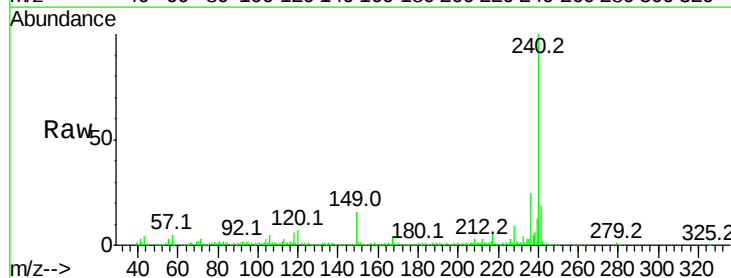
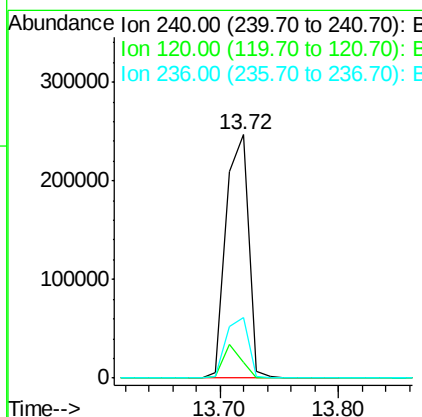
RT: 13.72 min Scan# 1044

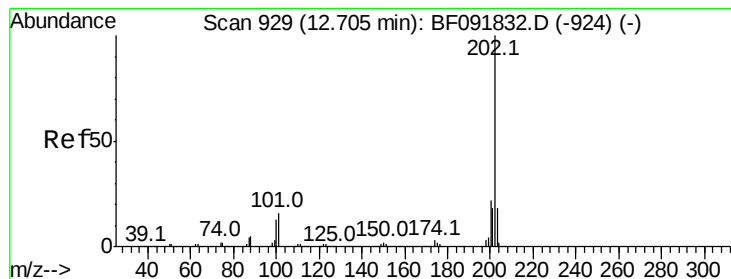
Delta R.T. -0.01 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 6.7   | 12.9       | 19.3# |
| 236     | 24.9  | 20.9       | 31.3  |





#77

Pvrene

Concen: 10.13 ng

RT: 12.52 min Scan# 939

Delta R.T. -0.01 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

Instrument :

BNA\_F

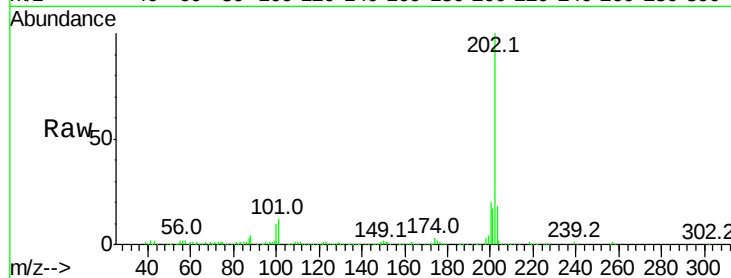
ClientSampleId :

TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.4  | 17.7  | 26.5  |
| 203     | 17.8  | 14.7  | 22.1  |

Manual Integrations  
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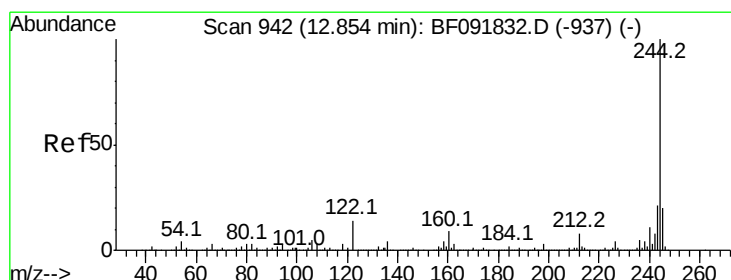
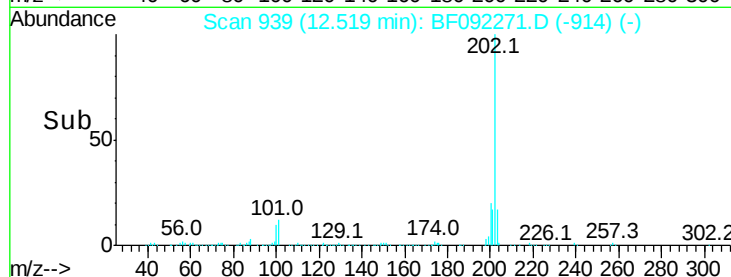
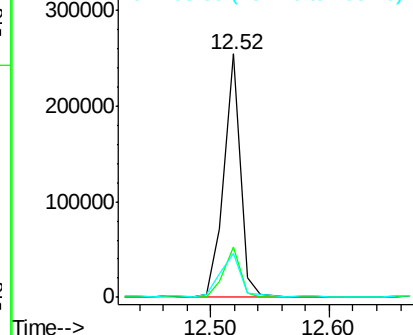
Sohil  
1/16/2017 8:39:32 AM



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: 46.05 ng

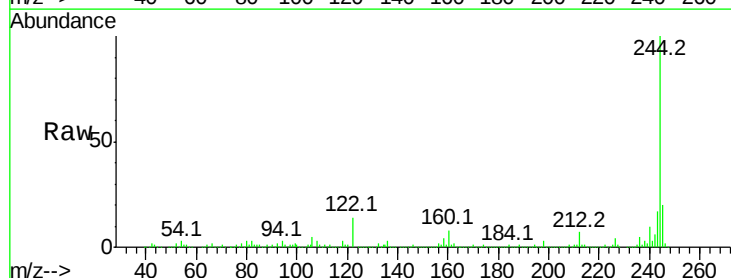
RT: 12.67 min Scan# 952

Delta R.T. -0.02 min

Lab File: BF092271.D

Acq: 14 Jan 2017 4:58

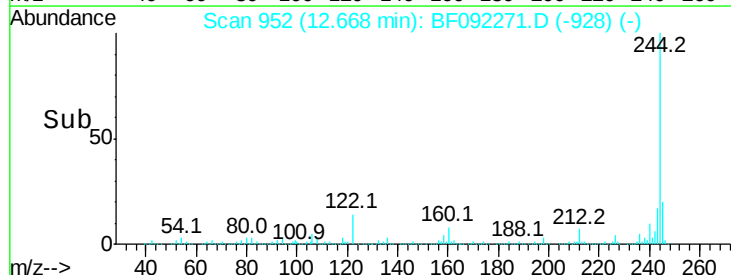
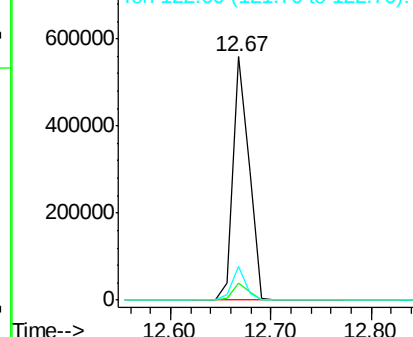
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.2   | 9.2   |
| 122     | 13.8  | 11.4  | 17.2  |

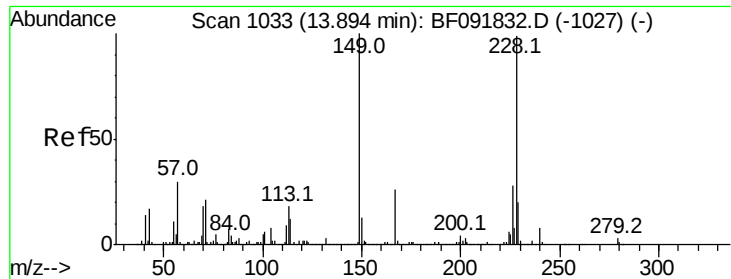


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





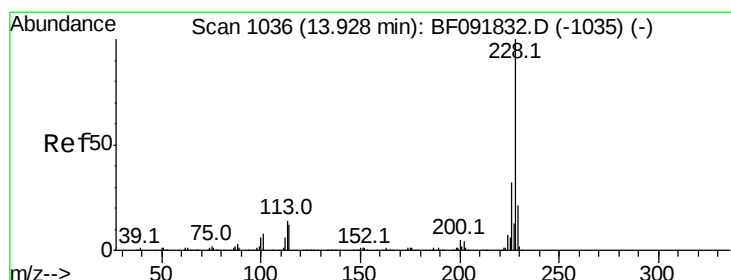
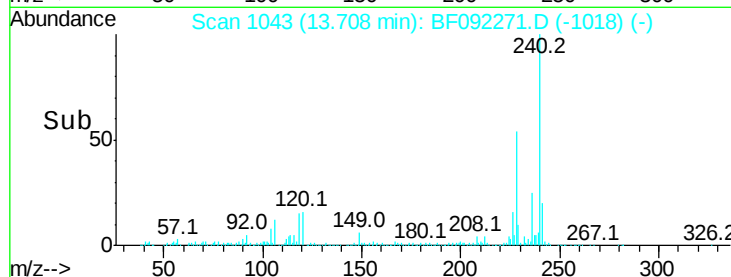
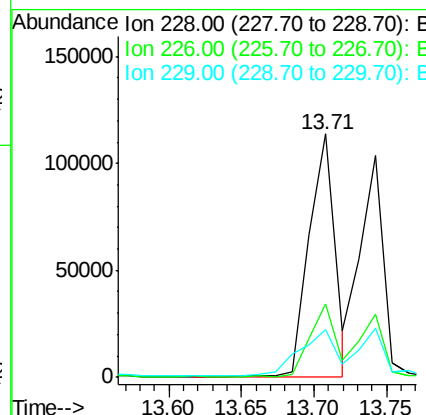
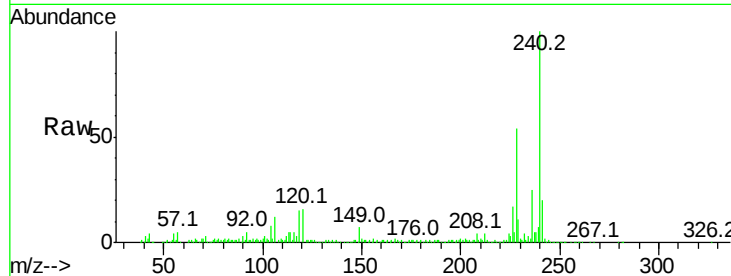
#80  
Benzo(a)anthracene  
Concen: 7.67 ng  
RT: 13.71 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 22.4  | 33.6  |
| 229     | 19.8  | 16.2  | 24.4  |

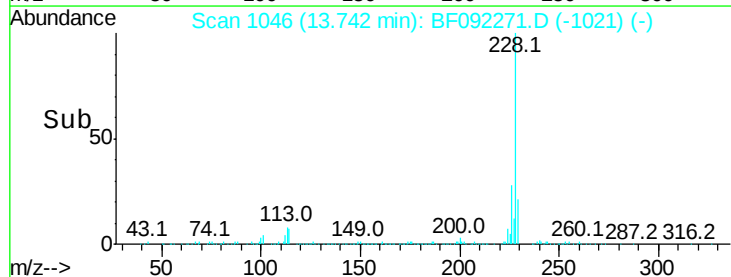
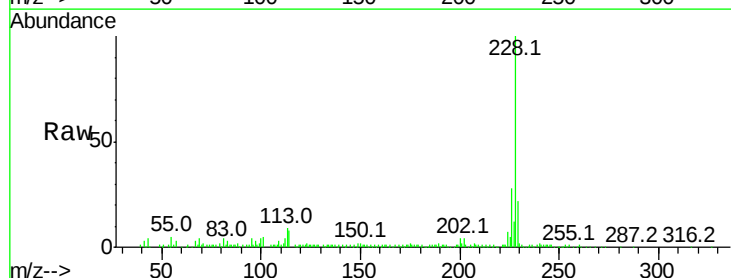
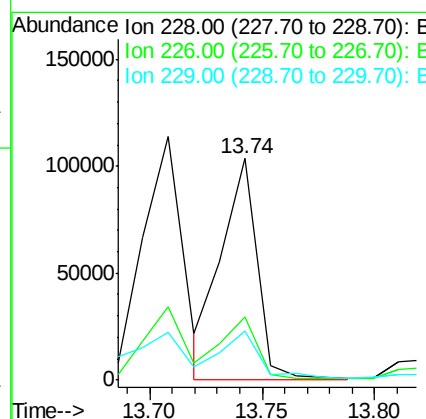
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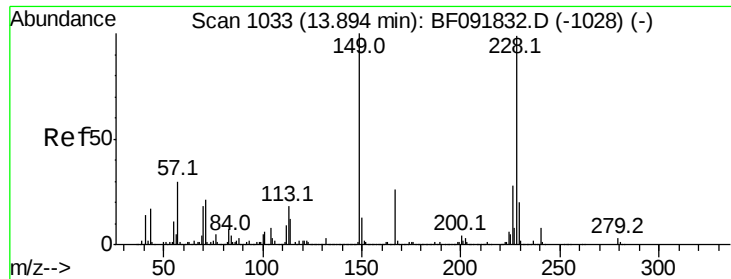
Sohil  
1/16/2017 8:39:32 AM



#82  
Chrysene  
Concen: 6.31 ng m  
RT: 13.74 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 25.4  | 38.0  |
| 229     | 22.2  | 16.2  | 24.2  |





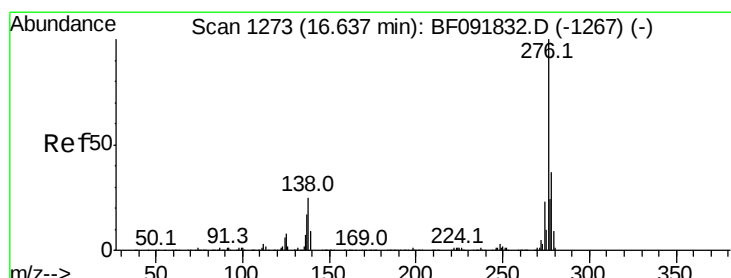
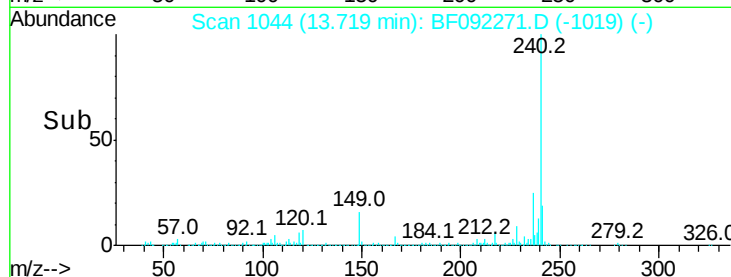
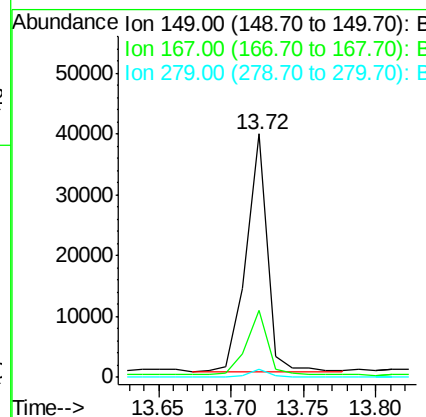
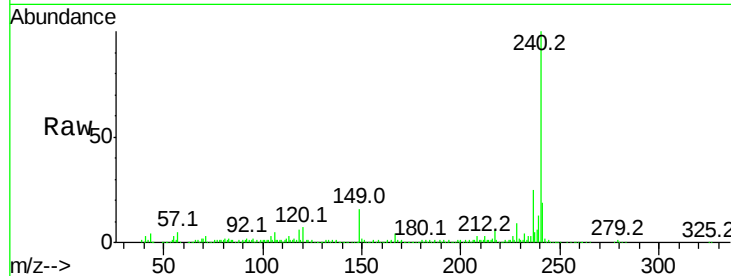
#83  
Bis(2-ethylhexyl)phthalate  
Concen: 3.09 ng  
RT: 13.72 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.3  | 20.2  | 30.4  |
| 279     | 3.5   | 1.8   | 2.8   |

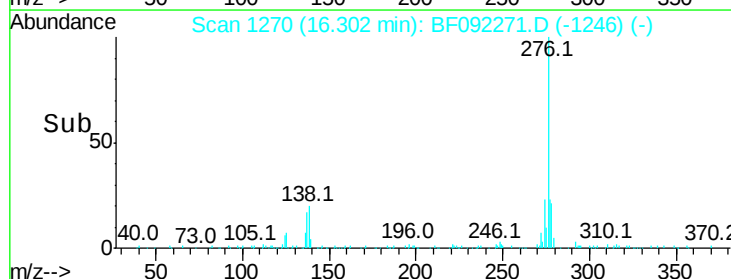
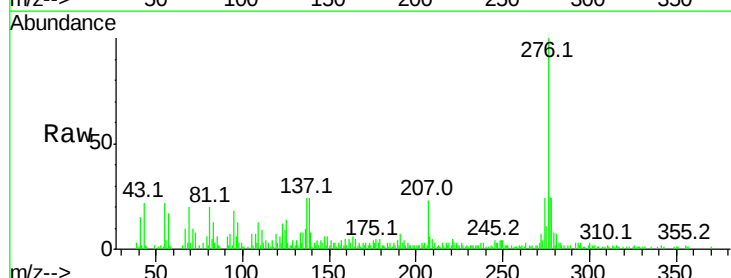
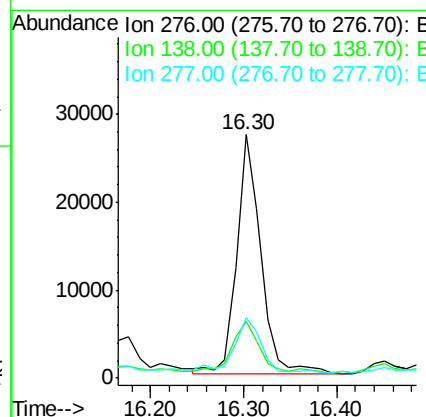
Manual Integrations  
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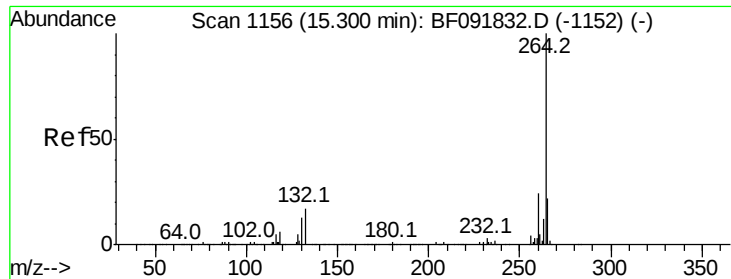
Sohil  
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#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.08 ng  
RT: 16.30 min Scan# 1270  
Delta R.T. -0.02 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.5  | 21.8  | 32.6  |
| 277     | 28.2  | 20.2  | 30.4  |





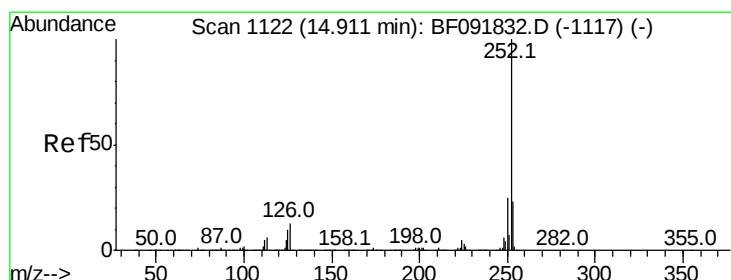
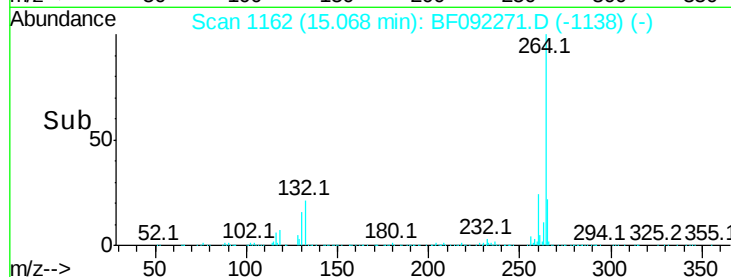
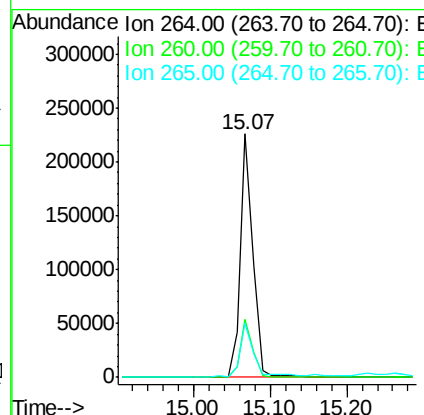
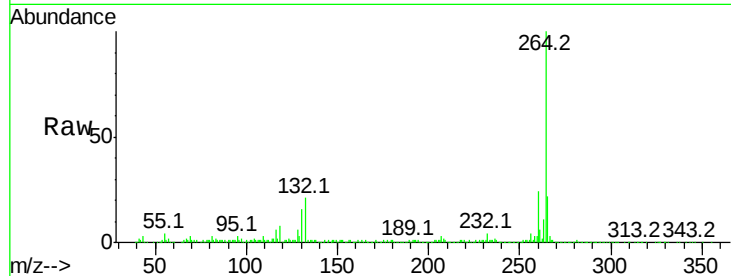
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.07 min Scan# 1162  
Delta R.T. -0.02 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 266606 |       |       |
| 260     | 24.1  | 19.2   | 28.8  |       |
| 265     | 22.4  | 17.4   | 26.0  |       |

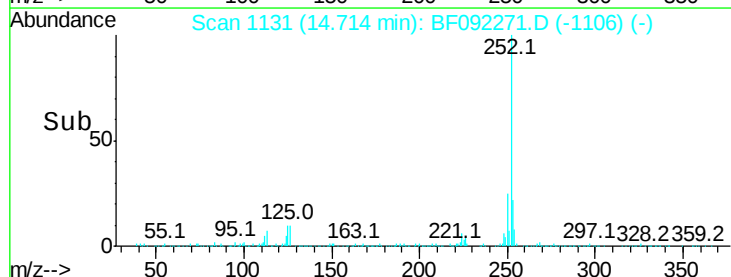
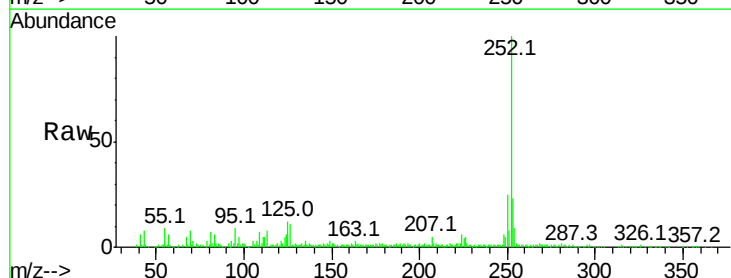
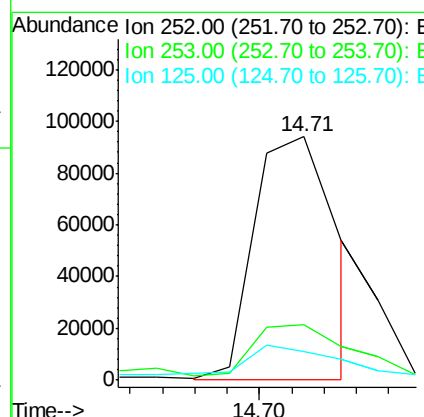
Manual Integrations  
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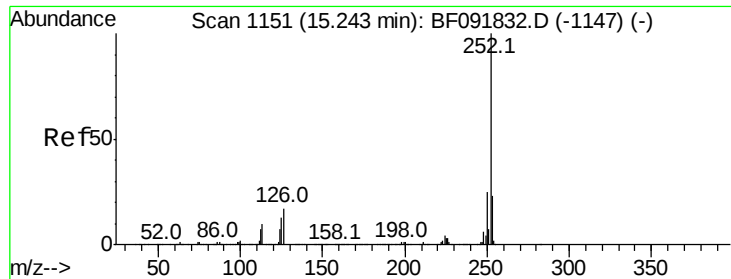
Sohil  
1/16/2017 8:39:32 AM



#87  
Benzo(b)fluoranthene  
Concen: 9.95 ng m  
RT: 14.71 min Scan# 1131  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 165131 |       |       |
| 253     | 22.8  | 18.2   | 27.4  |       |
| 125     | 11.8  | 9.8    | 14.6  |       |





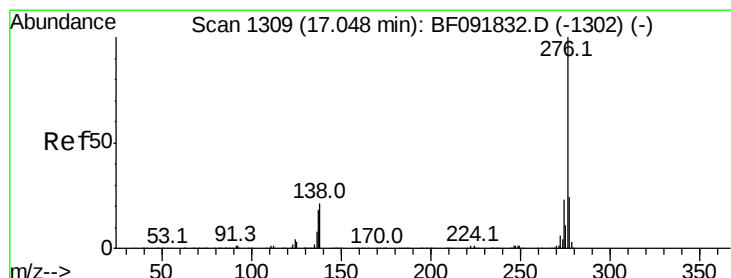
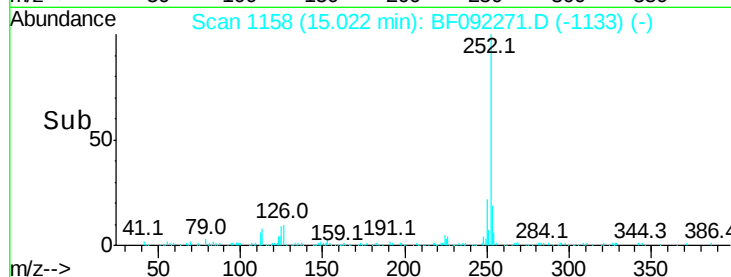
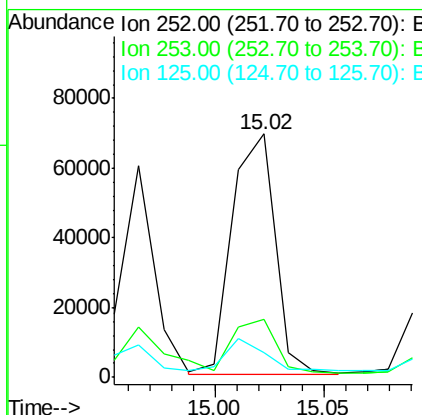
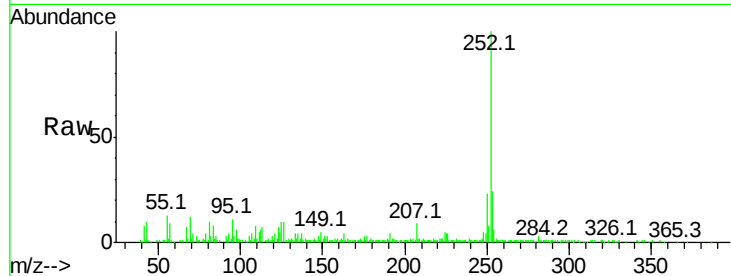
#89  
Benzo(a)pyrene  
Concen: 6.47 ng  
RT: 15.02 min Scan# 1158  
Delta R.T. -0.01 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

Instrument :  
BNA\_F  
ClientSampleId :  
TOD-BC-0.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 18.2  | 27.2  |
| 125     | 10.4  | 10.0  | 15.0  |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 3.63 ng  
RT: 16.67 min Scan# 1302  
Delta R.T. -0.03 min  
Lab File: BF092271.D  
Acq: 14 Jan 2017 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.6  | 19.2  | 28.8  |
| 138     | 27.9  | 16.0  | 24.0  |

