

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\  
 Data File : BF101314.D  
 Acq On : 12 Dec 2017 5:09  
 Operator : SJ/JU  
 Sample : I6764-01 2X  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MAP-8-E(0-1)

Manual Integrations  
 APPROVED

Sohil  
 12/12/2017 3:59:30 PM

Quant Time: Dec 12 07:23:31 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 08 18:17:31 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 43595    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.11  | 136  | 160010   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.87  | 164  | 63765    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.36 | 188  | 109895   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.02 | 240  | 88778    | 20.00  | ng    | 0.02     |
| 86) Perylene-d12            | 15.50 | 264  | 67924    | 20.00  | ng    | 0.03     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 139368   | 52.83  | ng    | 0.00     |
| 7) Phenol-d6                | 6.46  | 99   | 166723   | 52.05  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 92800    | 34.60  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 30869    | 40.30  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.19  | 172  | 204720   | 43.93  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.94 | 244  | 166013   | 40.90  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 48) Acenaphthylene          | 9.73  | 152  | 49503    | 7.260  | ng    | 98       |
| 49) Dimethylphthalate       | 9.58  | 163  | 19013    | 3.697  | ng    | 99       |
| 57) Fluorene                | 10.42 | 166  | 12243    | 2.560  | ng    | 88       |
| 70) Phenanthrene            | 11.39 | 178  | 155517   | 25.697 | ng    | 97       |
| 71) Anthracene              | 11.44 | 178  | 101413   | 16.557 | ng    | 97       |
| 74) Fluoranthene            | 12.59 | 202  | 453859   | 67.655 | ng    | 96       |
| 77) Pyrene                  | 12.82 | 202  | 526029   | 85.869 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.01 | 228  | 290139m  | 51.761 | ng    |          |
| 82) Chrysene                | 14.04 | 228  | 290452m  | 55.794 | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 17.00 | 276  | 127772   | 27.608 | ng    | # 87     |
| 87) Benzo(b)fluoranthene    | 15.07 | 252  | 296097m  | 72.779 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.10 | 252  | 103708m  | 25.873 | ng    |          |
| 89) Benzo(a)pyrene          | 15.44 | 252  | 229865m  | 62.147 | ng    |          |
| 90) Dibenzo(a,h)anthracene  | 17.00 | 278  | 38930    | 11.939 | ng    | # 89     |
| 91) Benzo(a,h,i)perylene    | 17.46 | 276  | 136350   | 44.370 | ng    | # 91     |

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

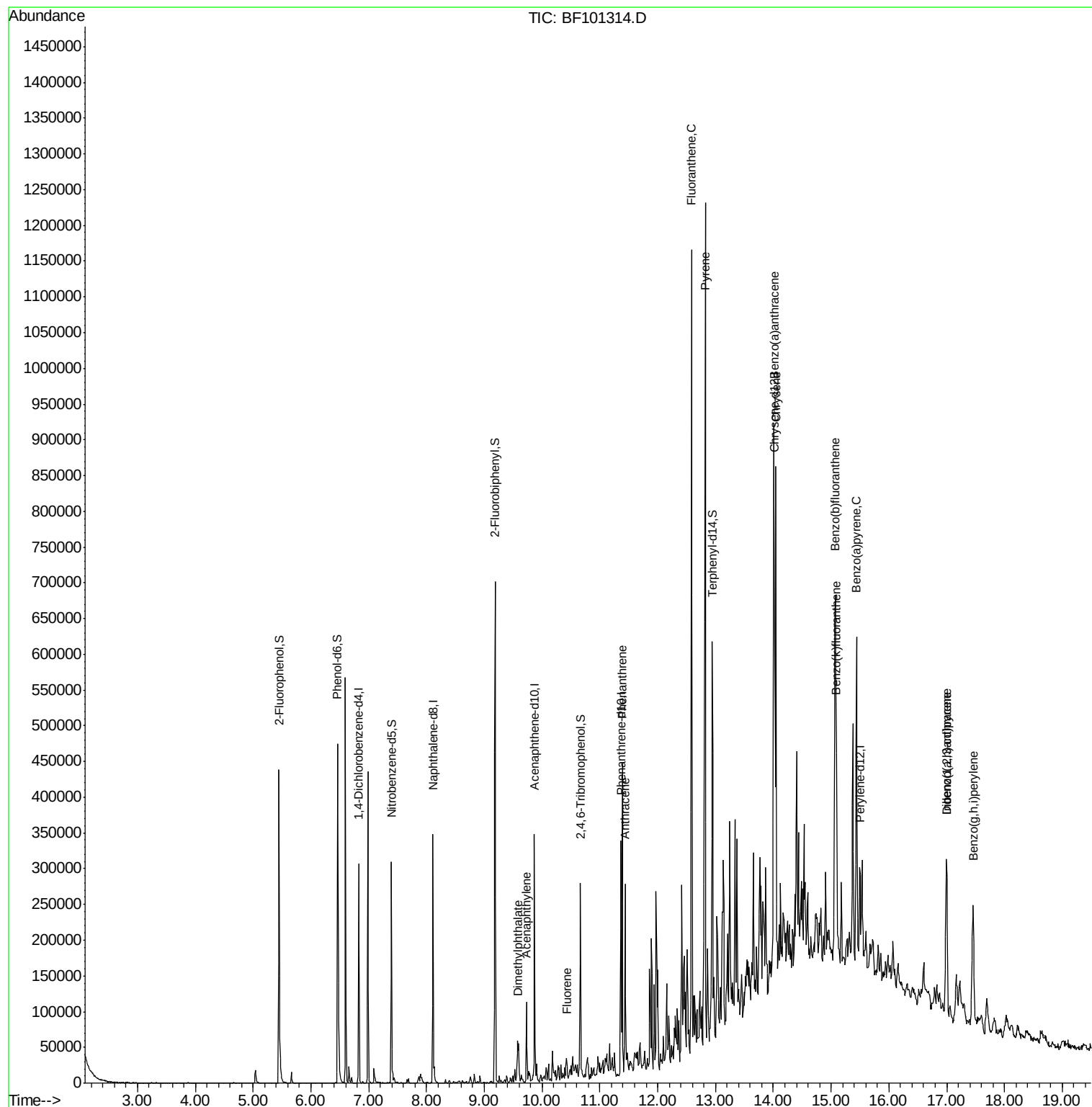
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\  
Data File : BF101314.D  
Acq On : 12 Dec 2017 5:09  
Operator : SJ/JU  
Sample : I6764-01 2X  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

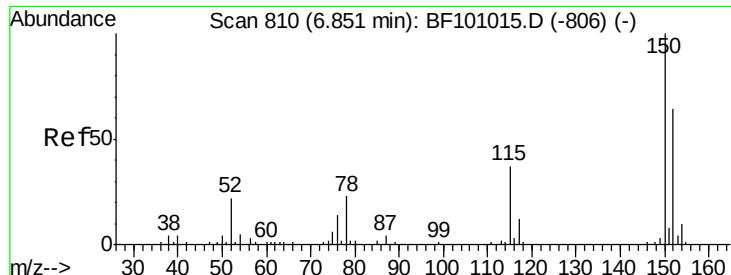
Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

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Quant Time: Dec 12 07:23:31 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 08 18:17:31 2017  
Response via : Initial Calibration





#1

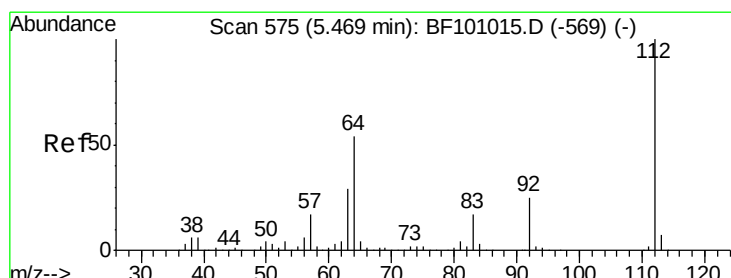
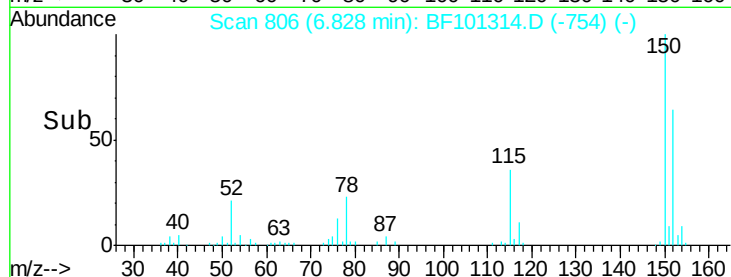
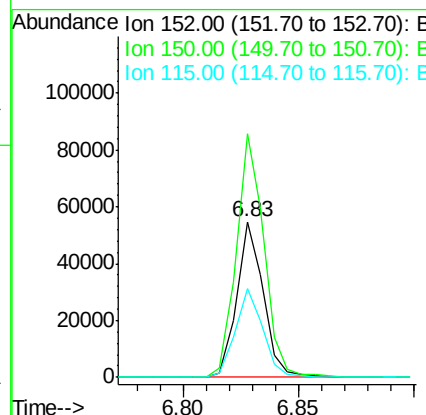
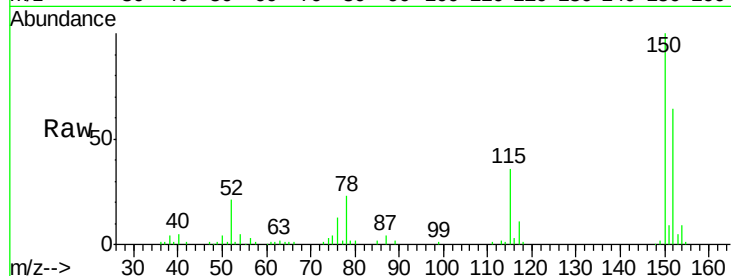
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. 0.01 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.8 | 124.6 | 186.8 |
| 115     | 57.2  | 50.1  | 75.1  |

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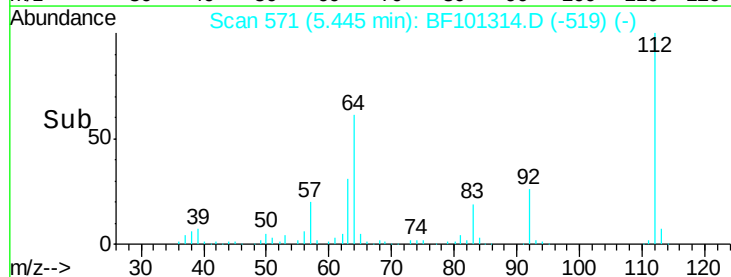
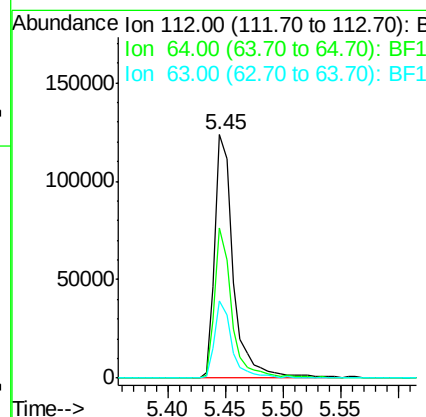
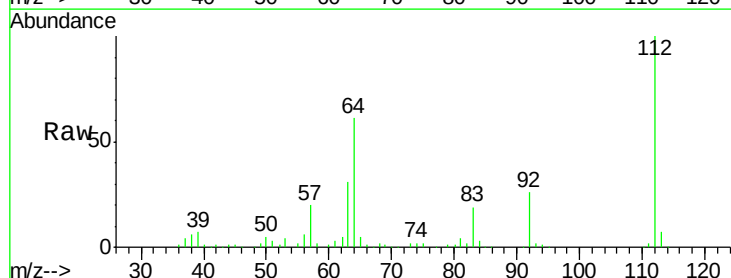
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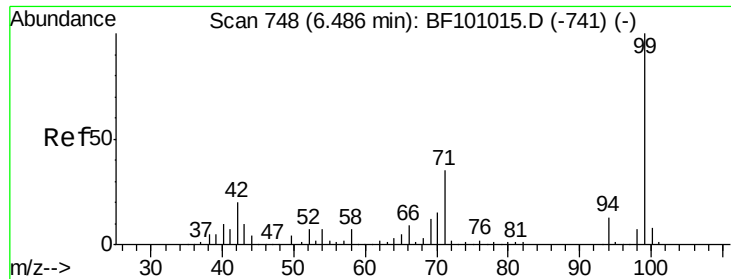


#5

2-Fluorophenol  
Concen: 52.827 ng  
RT: 5.45 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.5  | 47.9  | 71.9  |
| 63      | 31.5  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 52.051 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.00 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

Instrument :

BNA\_F

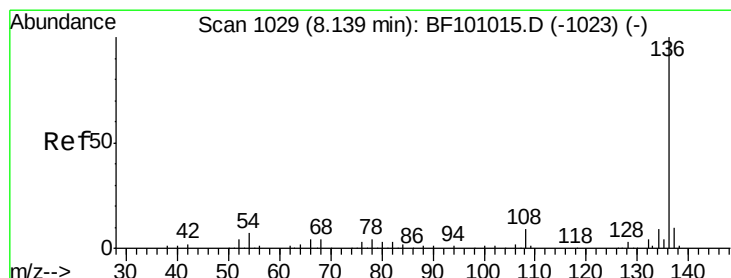
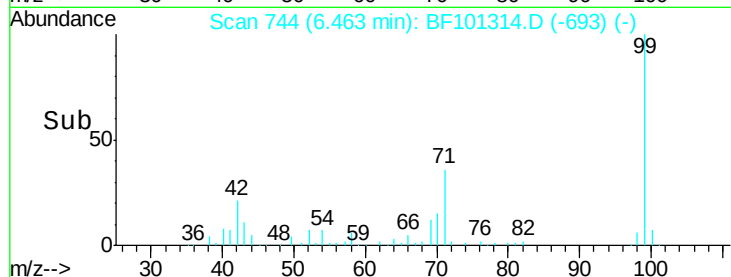
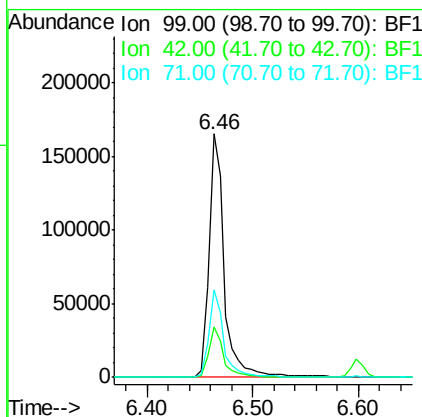
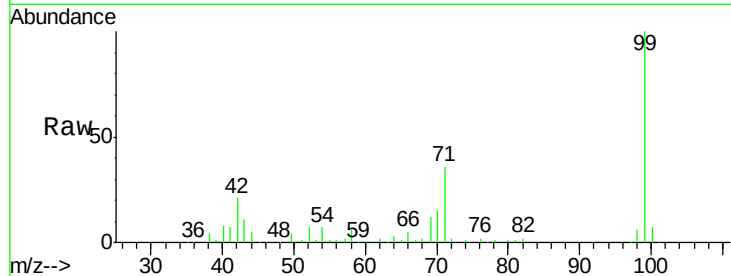
ClientSampleId :

MAP-8-E(0-1)

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 166723 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 20.9  | 14.5  | 21.7   |
| 71       | 36.0  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

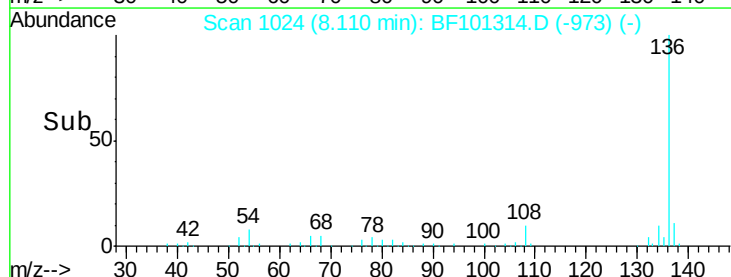
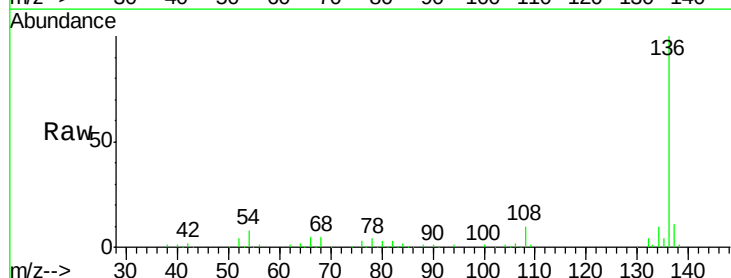
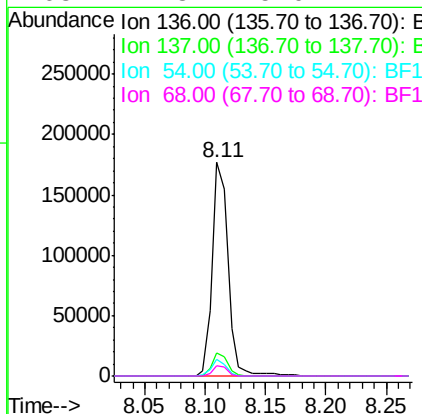
RT: 8.11 min Scan# 1024

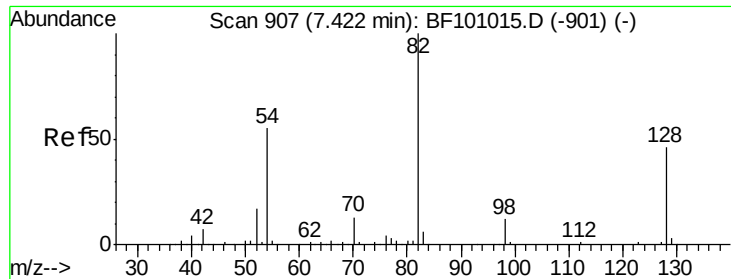
Delta R.T. -0.00 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 160010 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.9   | 13.3   |
| 54       | 7.9   | 6.6   | 9.8    |
| 68       | 4.8   | 5.0   | 7.4#   |





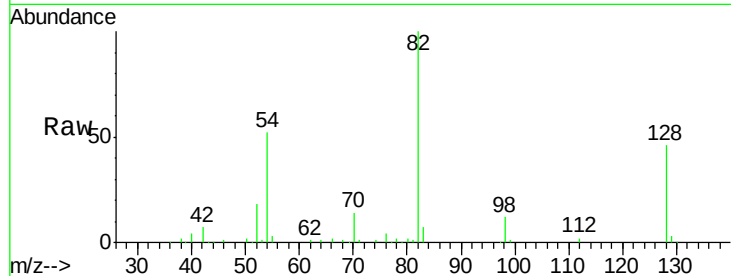
#23  
Nitrobenzene-d5  
Concen: 34.597 ng  
RT: 7.39 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

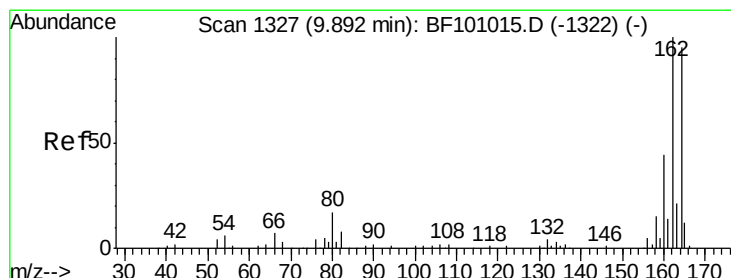
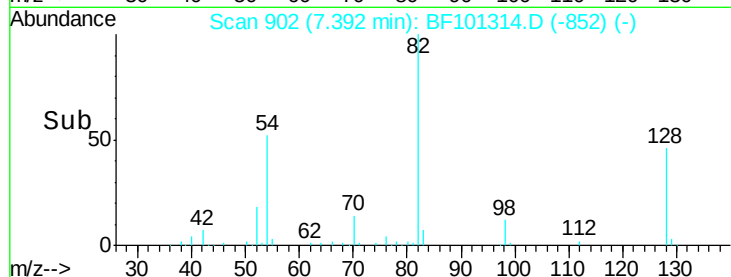
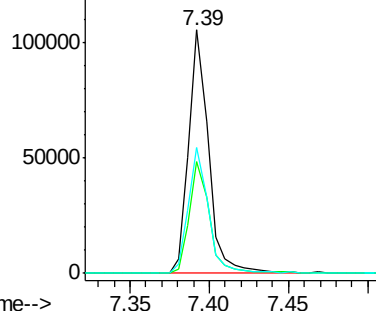
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.1  | 36.1  | 54.1  |
| 54      | 51.9  | 41.4  | 62.2  |

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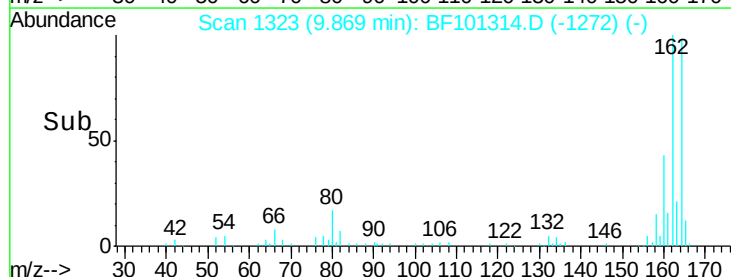
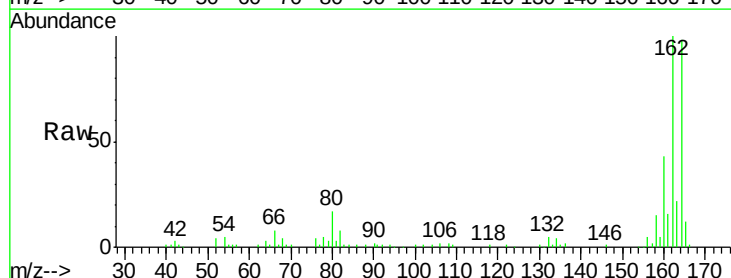
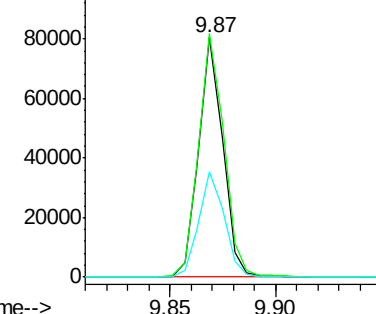
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

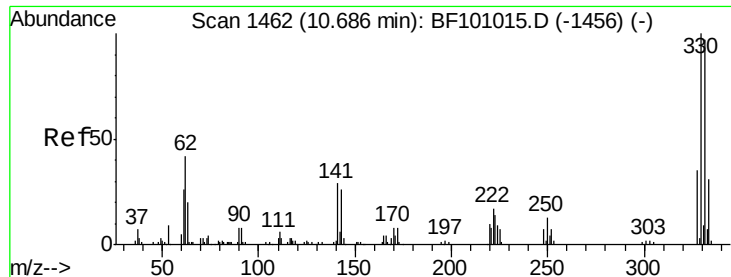


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.87 min Scan# 1323  
Delta R.T. -0.00 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 86.1  | 129.1 |
| 160     | 43.9  | 38.3  | 57.5  |

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





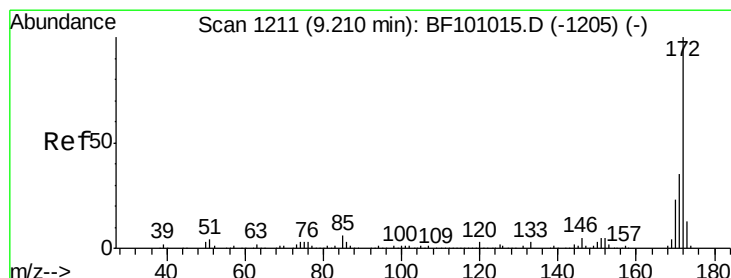
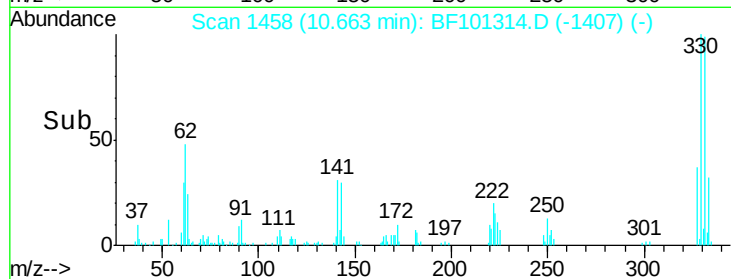
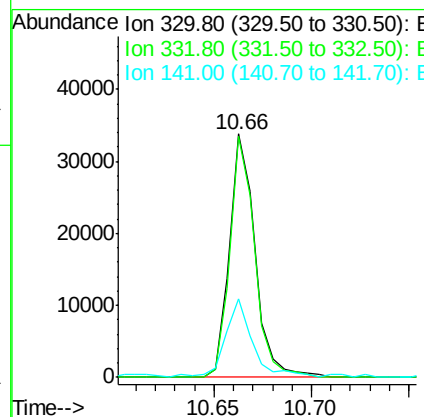
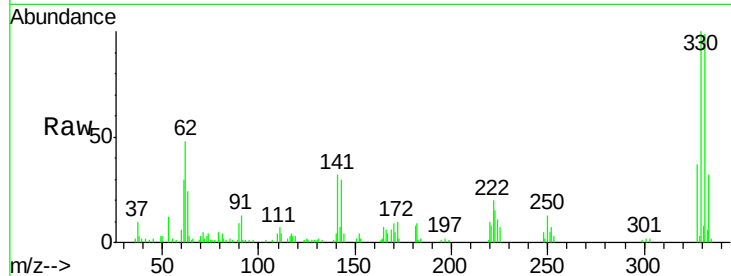
#41  
 2,4,6-Tribromophenol  
 Concen: 40.299 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.00 min  
 Lab File: BF101314.D  
 Acq: 12 Dec 2017 5:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MAP-8-E(0-1)

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 30869 |       |       |
| 332     | 95.7  |       | 77.0  | 115.6 |
| 141     | 34.3  |       | 29.9  | 44.9  |

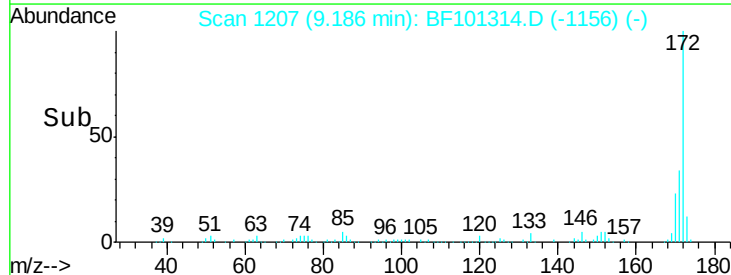
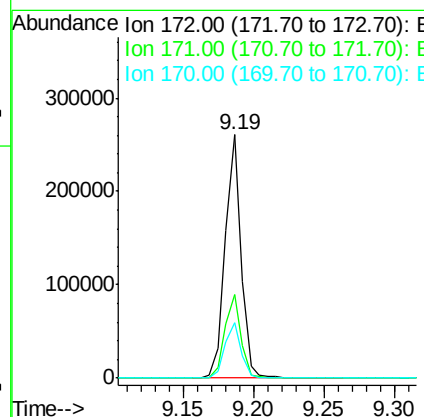
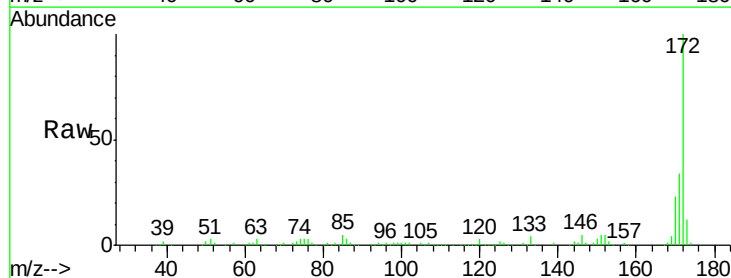
Manual Integrations  
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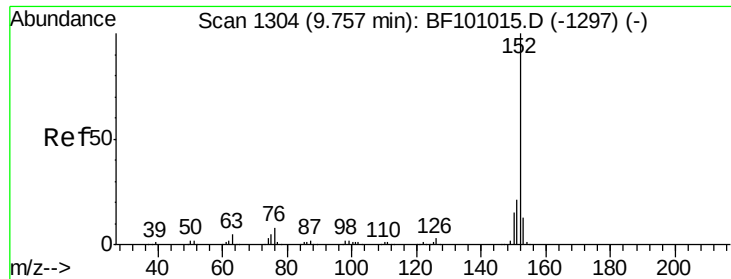
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#44  
 2-Fluorobiphenyl  
 Concen: 43.927 ng  
 RT: 9.19 min Scan# 1207  
 Delta R.T. -0.00 min  
 Lab File: BF101314.D  
 Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 204720 |       |       |
| 171     | 34.4  |        | 29.7  | 44.5  |
| 170     | 22.6  |        | 19.6  | 29.4  |





#48

Acenaphthylene

Concen: 7.260 ng

RT: 9.73 min Scan# 1300

Delta R.T. 0.01 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

Instrument :

BNA\_F

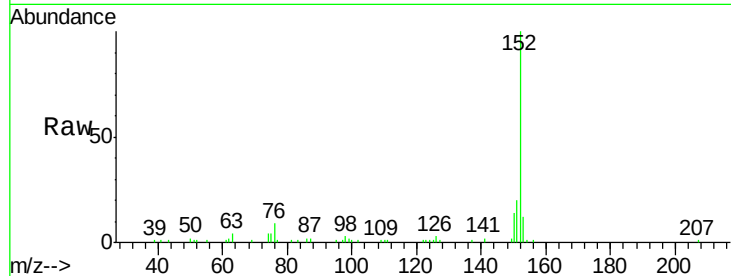
ClientSampleId :

MAP-8-E(0-1)

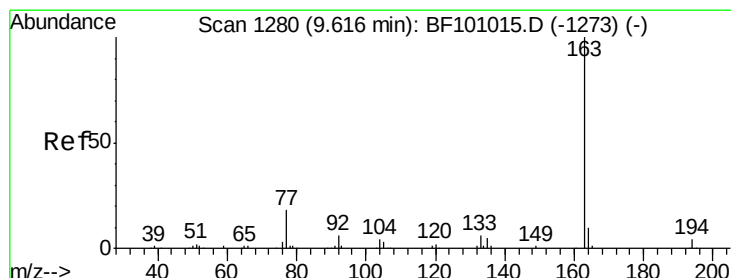
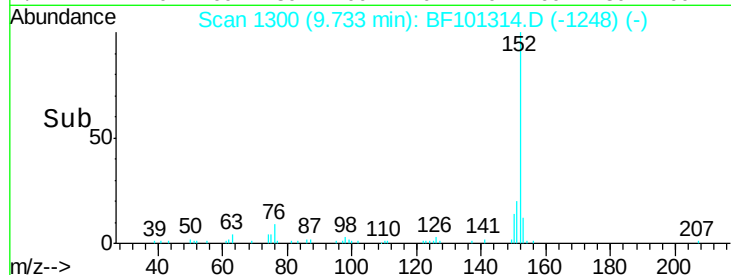
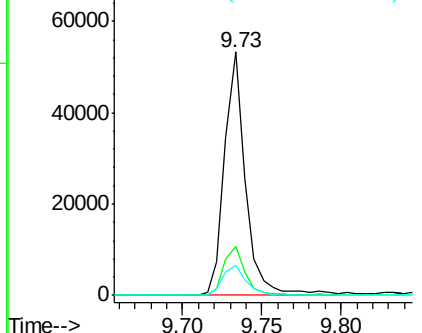
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 49503 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.1  | 16.3  | 24.5  |
| 153       | 12.1  | 10.7  | 16.1  |

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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 3.697 ng

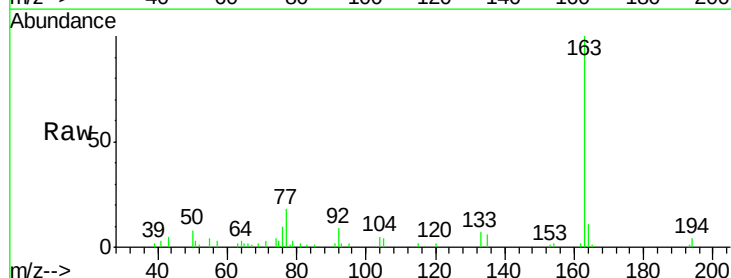
RT: 9.58 min Scan# 1274

Delta R.T. -0.01 min

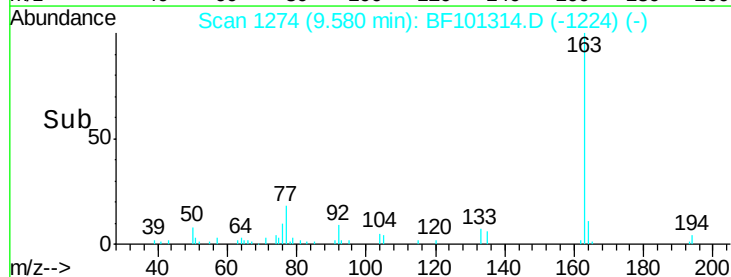
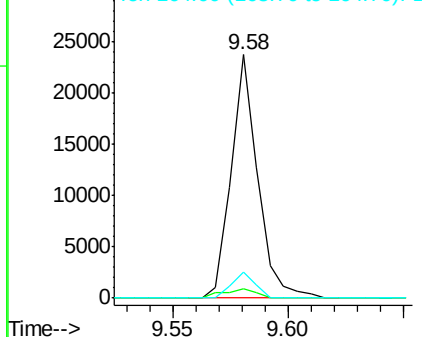
Lab File: BF101314.D

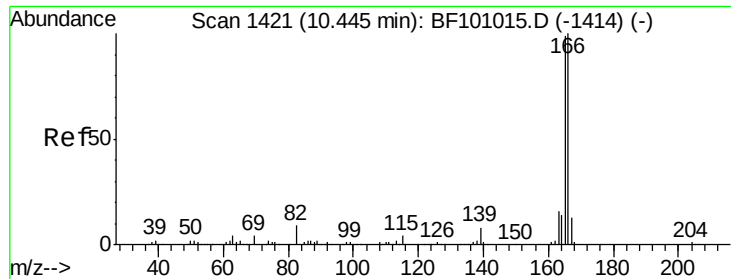
Acq: 12 Dec 2017 5:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 19013 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.0   | 2.7   | 4.1   |
| 164       | 10.6  | 8.2   | 12.2  |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#57

Fluorene

Concen: 2.560 ng

RT: 10.42 min Scan# 1417

Delta R.T. 0.01 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

Instrument :

BNA\_F

ClientSampleId :

MAP-8-E(0-1)

Tot Ion:166 Resp: 12243

Ion Ratio Lower Upper

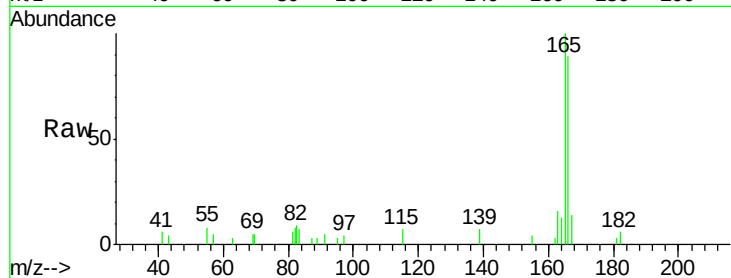
166 100

165 112.0 79.8 119.8

167 15.8 10.6 16.0

Manual Integrations  
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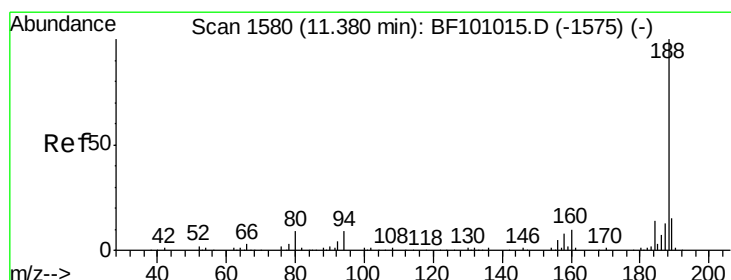
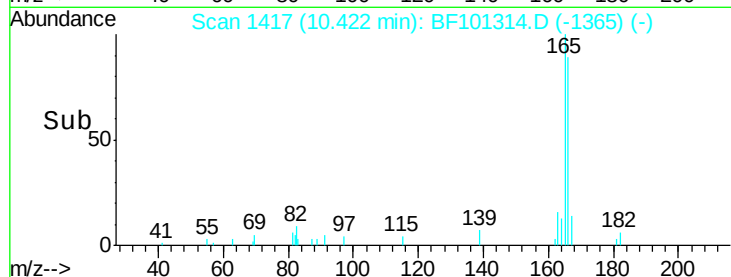
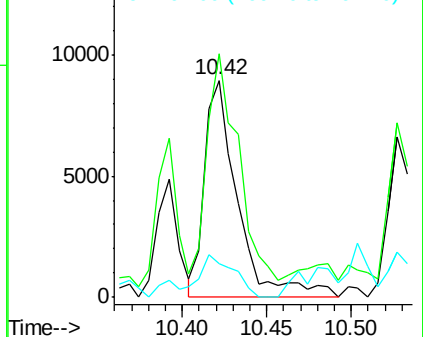
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. 0.01 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

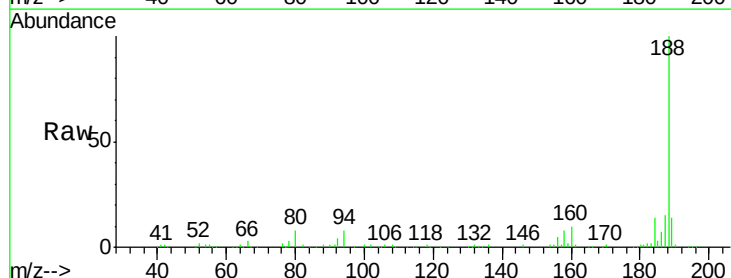
Tgt Ion:188 Resp: 109895

Ion Ratio Lower Upper

188 100

94 7.6 8.5 12.7#

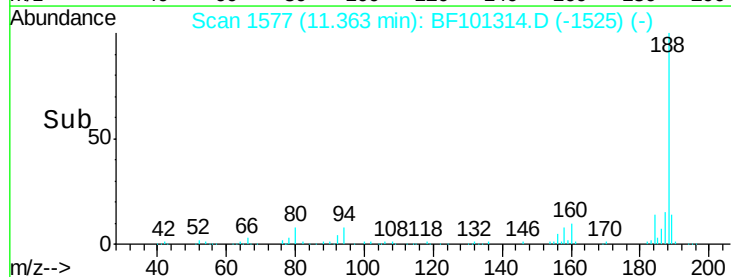
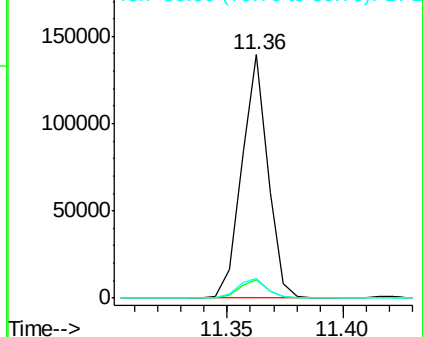
80 8.1 9.2 13.8#



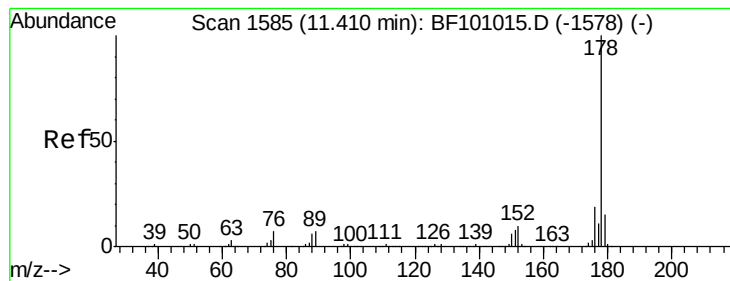
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1







#70

Phenanthrene

Concen: 25.697 ng

RT: 11.39 min Scan# 1581

Delta R.T. 0.01 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

Instrument :

BNA\_F

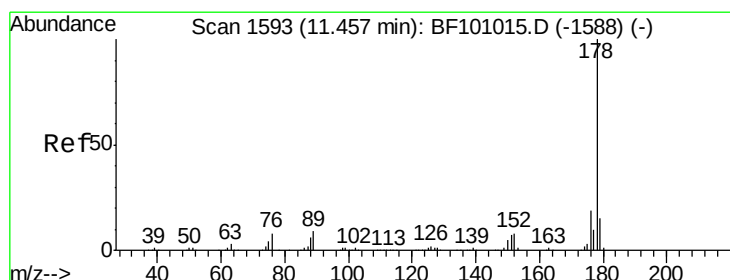
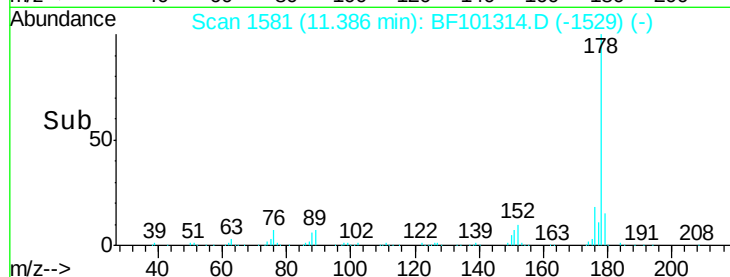
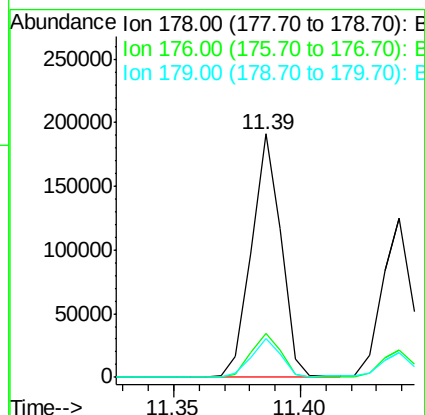
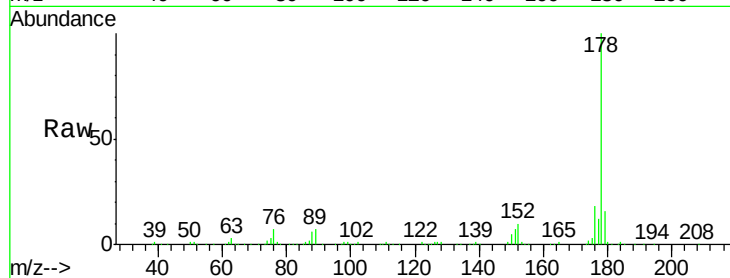
ClientSampleId :

MAP-8-E(0-1)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 155517 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.0  | 15.8  | 23.8   |
| 179       | 15.7  | 13.0  | 19.6   |

Manual Integrations  
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#71

Anthracene

Concen: 16.557 ng

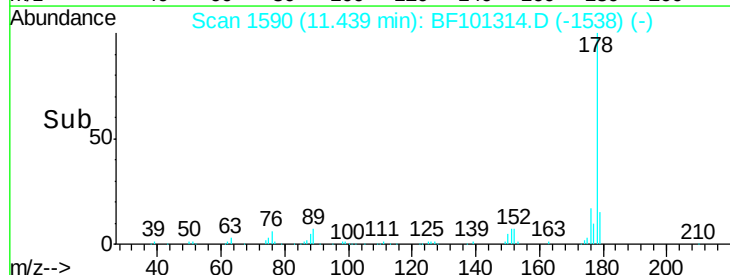
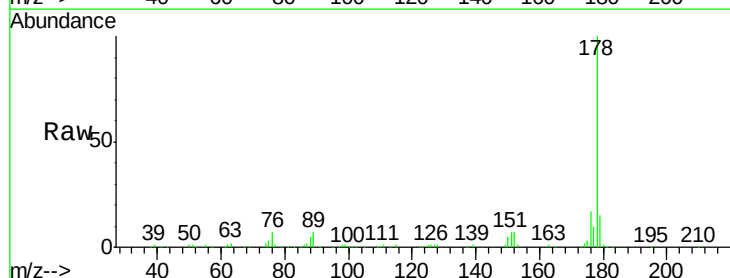
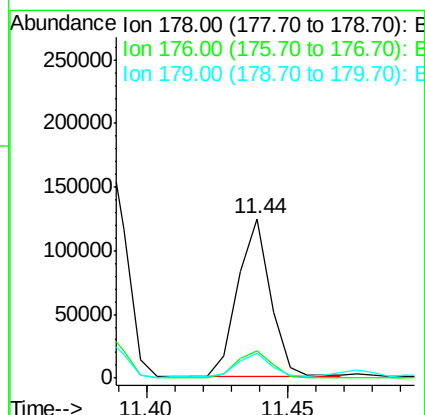
RT: 11.44 min Scan# 1590

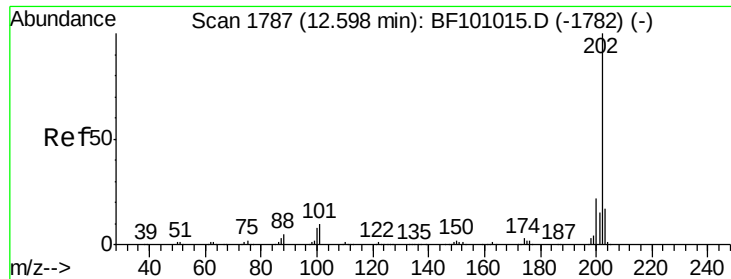
Delta R.T. 0.01 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 101413 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 17.1  | 15.4  | 23.2   |
| 179       | 15.4  | 12.6  | 19.0   |





#74

Fluoranthene

Concen: 67.655 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.02 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

Instrument :

BNA\_F

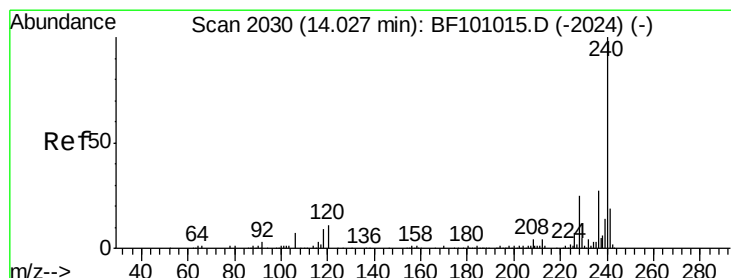
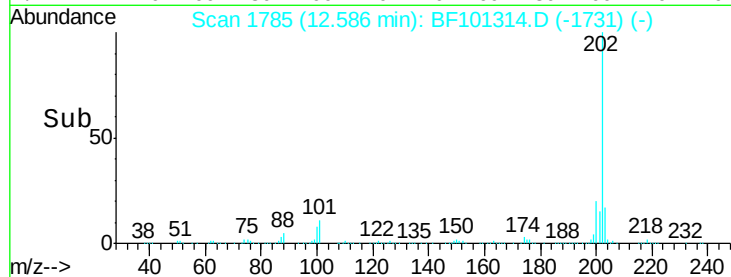
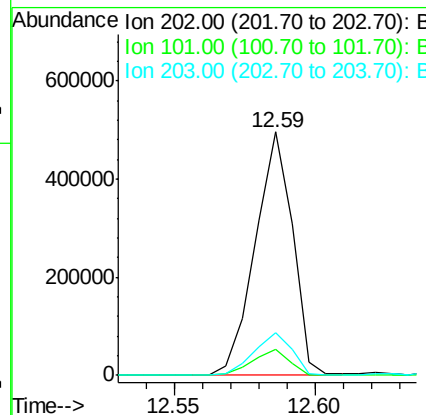
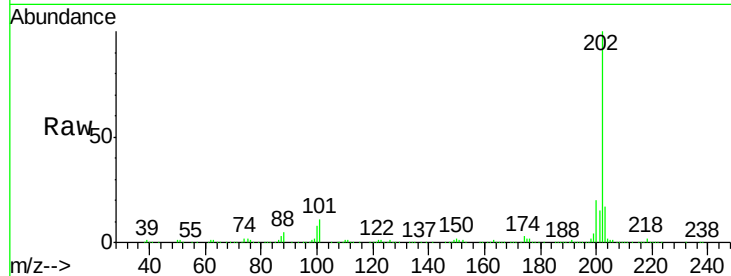
ClientSampleId :

MAP-8-E(0-1)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.8  | 0.0        | 34.1  |
| 203     | 17.5  | 0.0        | 38.1  |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.000 ng

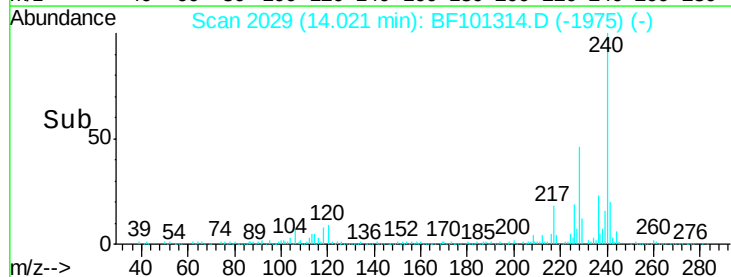
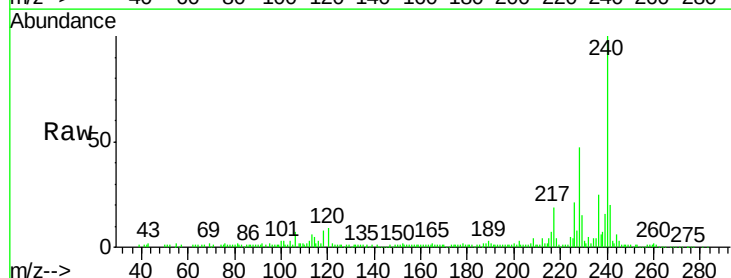
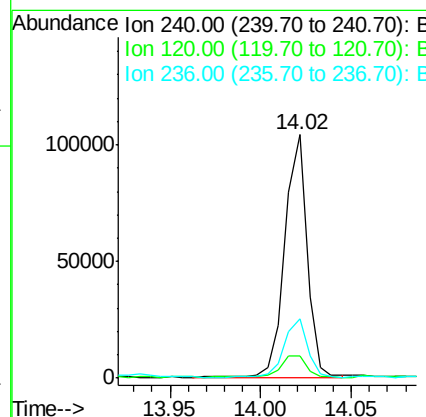
RT: 14.02 min Scan# 2029

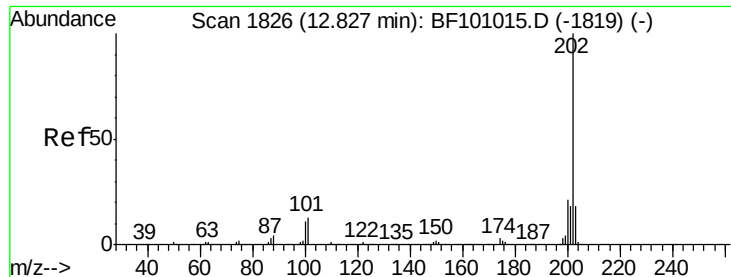
Delta R.T. 0.02 min

Lab File: BF101314.D

Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 9.4   | 9.5        | 14.3# |
| 236     | 24.5  | 20.7       | 31.1  |





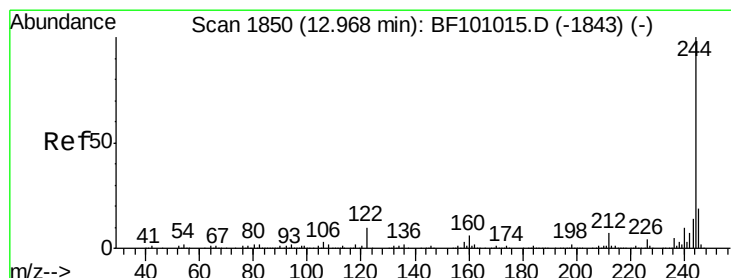
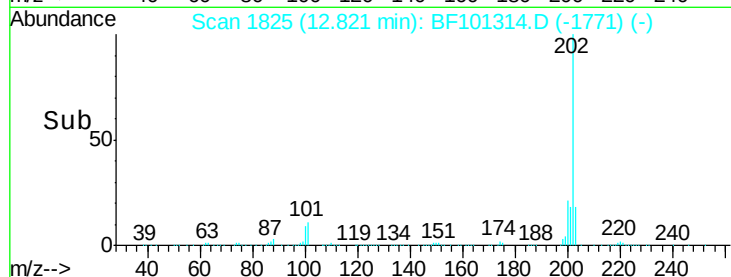
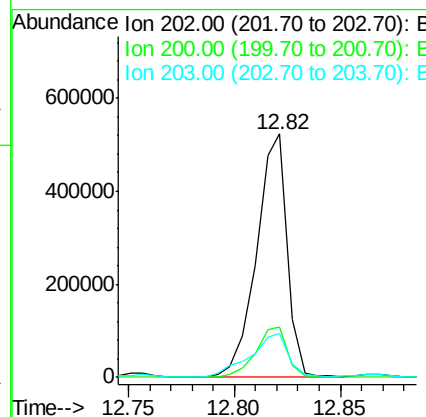
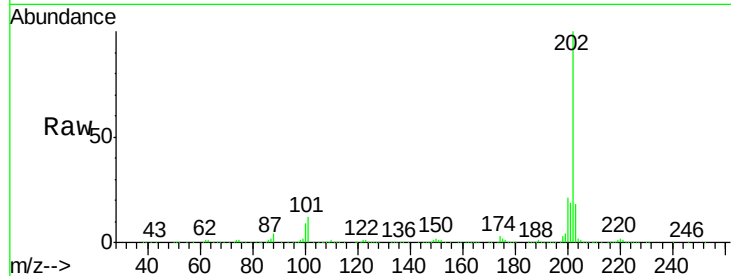
#77  
Pvrene  
Concen: 85.869 ng  
RT: 12.82 min Scan# 1825  
Delta R.T. 0.02 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.8  | 17.4  | 26.2  |
| 203     | 18.2  | 14.3  | 21.5  |

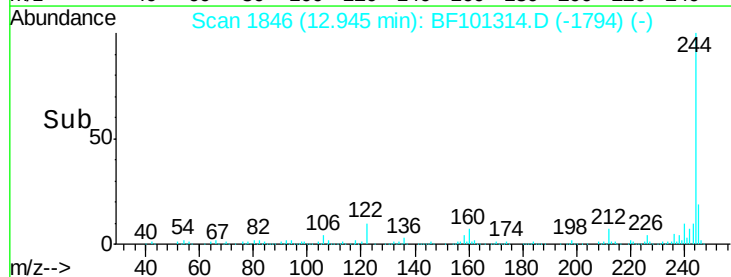
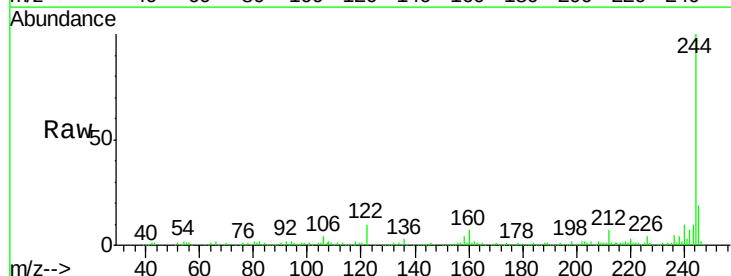
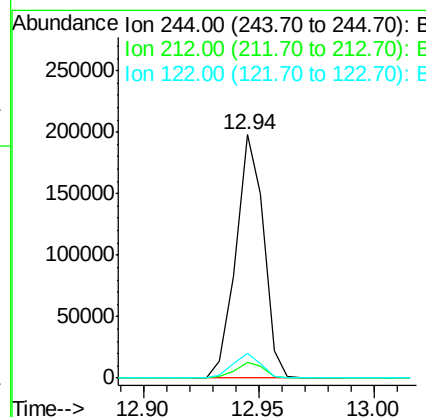
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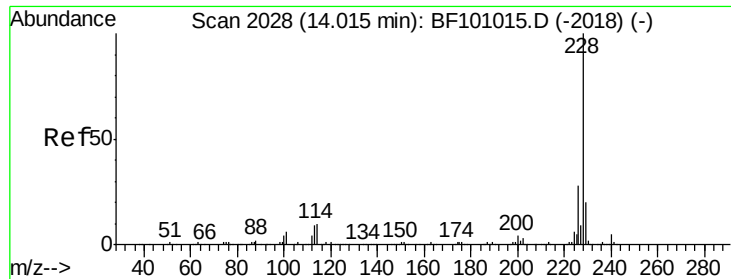
Sohil  
12/12/2017 3:59:30 PM



#78  
Terphenyl-d14  
Concen: 40.901 ng  
RT: 12.94 min Scan# 1846  
Delta R.T. 0.01 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.4   | 8.0   |
| 122     | 10.2  | 11.0  | 16.4  |





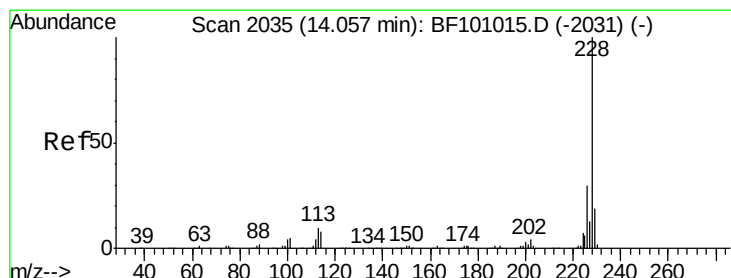
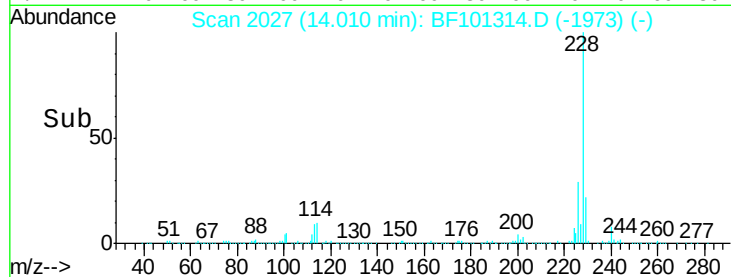
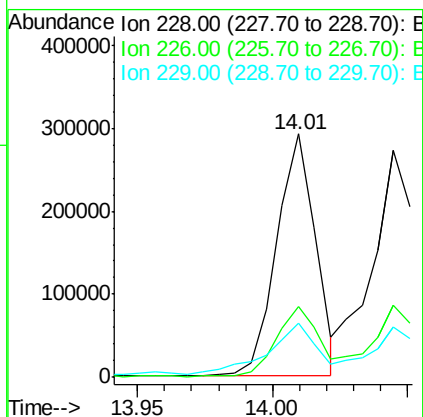
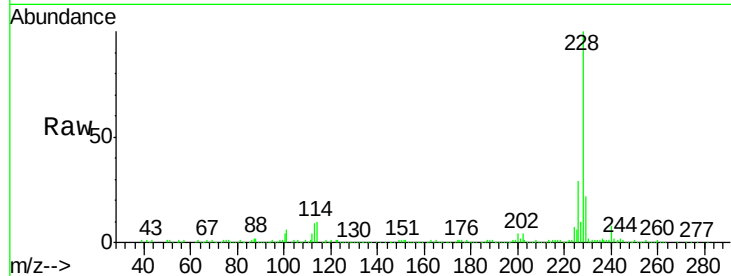
#80  
Benzo(a)anthracene  
Concen: 51.761 ng m  
RT: 14.01 min Scan# 2027  
Delta R.T. 0.02 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 22.6  | 33.8  |
| 229     | 22.2  | 15.8  | 23.6  |

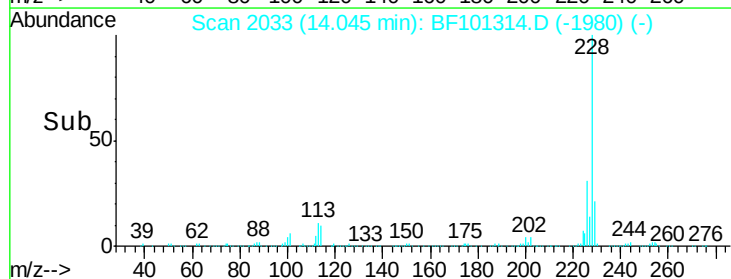
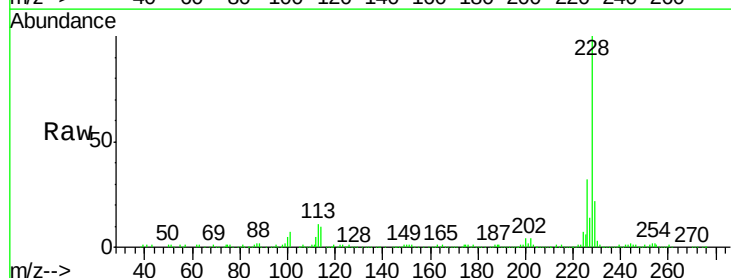
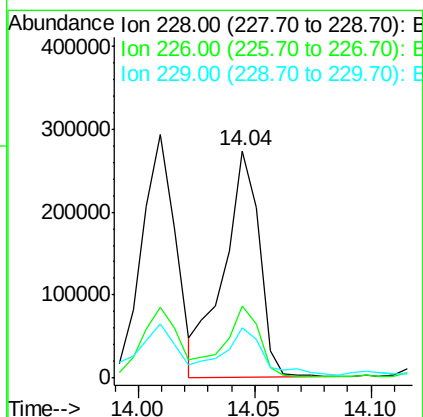
Manual Integrations  
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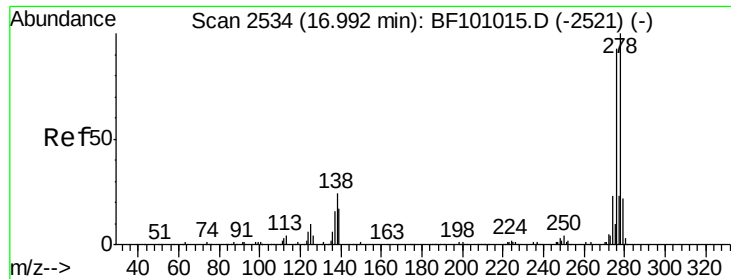
Sohil  
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#82  
Chrysene  
Concen: 55.794 ng m  
RT: 14.04 min Scan# 2033  
Delta R.T. 0.01 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.6  | 25.0  | 37.6  |
| 229     | 22.1  | 16.2  | 24.4  |





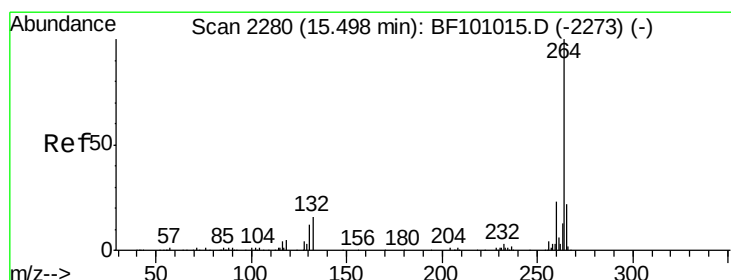
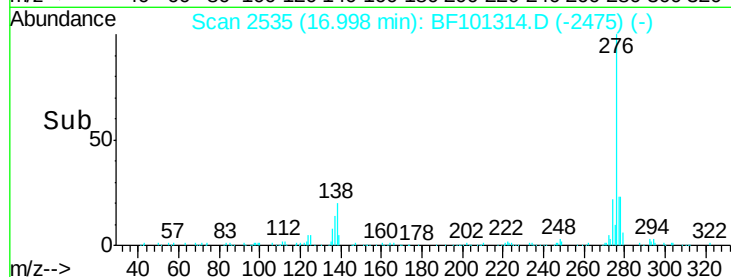
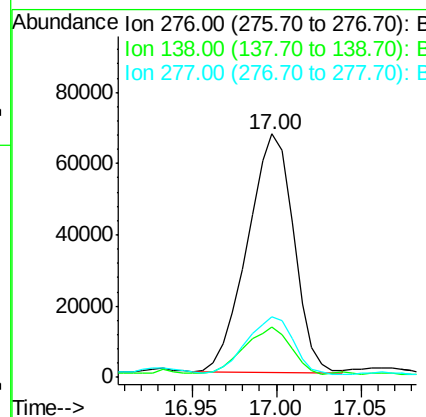
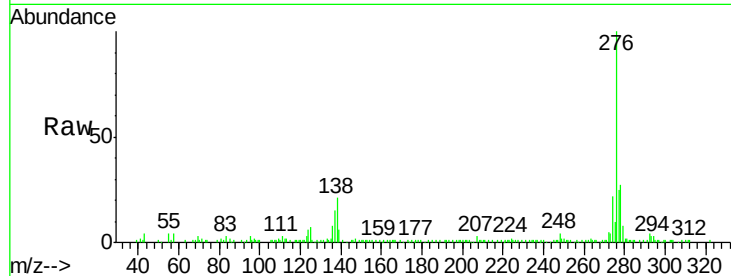
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 27.608 ng  
RT: 17.00 min Scan# 2535  
Delta R.T. 0.05 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.5  | 25.0  | 37.6# |
| 277     | 24.3  | 20.1  | 30.1  |

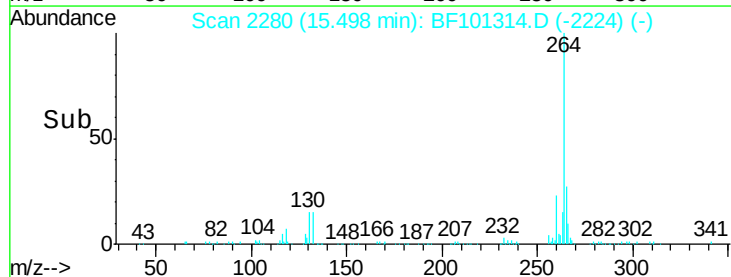
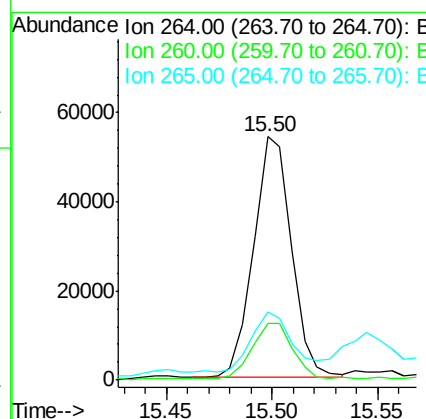
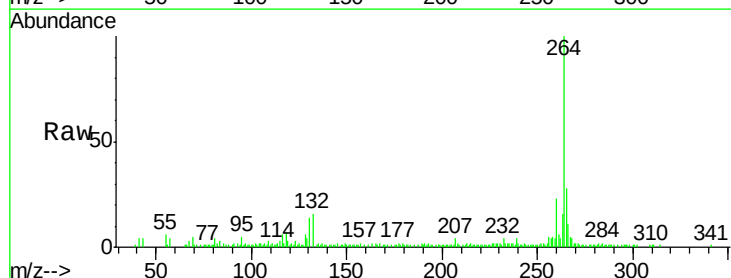
Manual Integrations  
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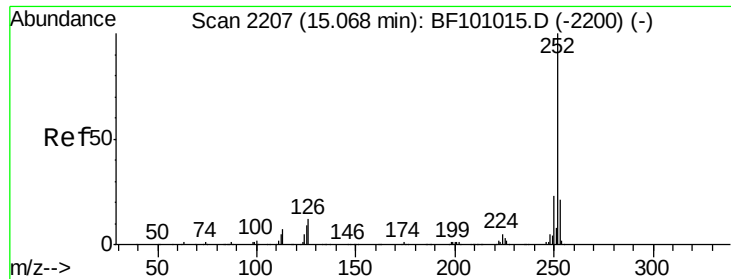
Sohil  
12/12/2017 3:59:30 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2280  
Delta R.T. 0.03 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 27.8  | 17.5  | 26.3# |





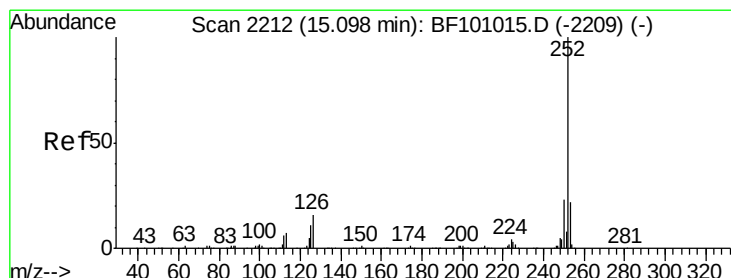
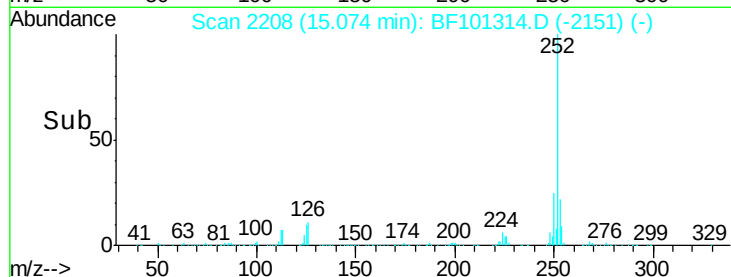
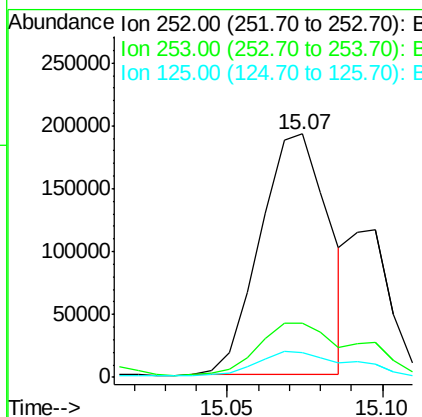
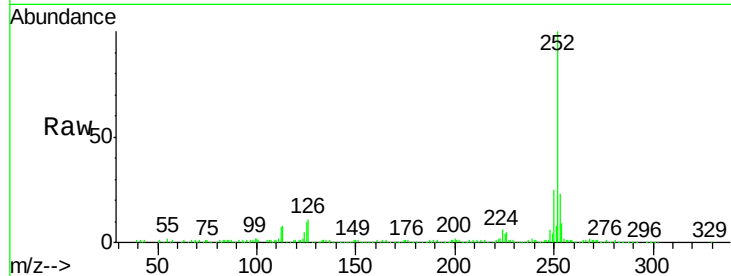
#87  
Benzo(b)fluoranthene  
Concen: 72.779 ng m  
RT: 15.07 min Scan# 2208  
Delta R.T. 0.04 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.0  | 25.6  |
| 125     | 10.2  | 9.0   | 13.6  |

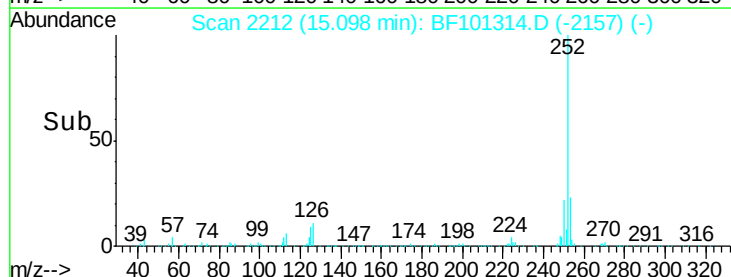
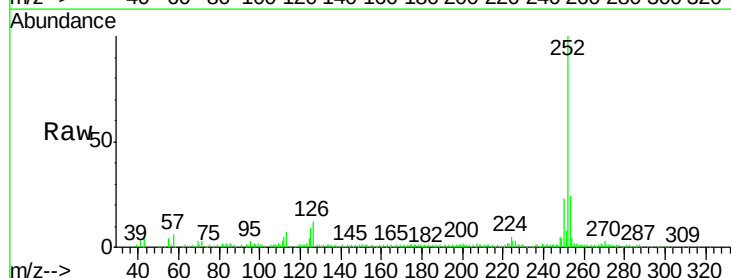
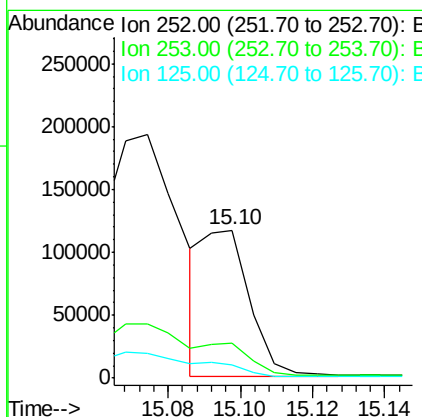
Manual Integrations  
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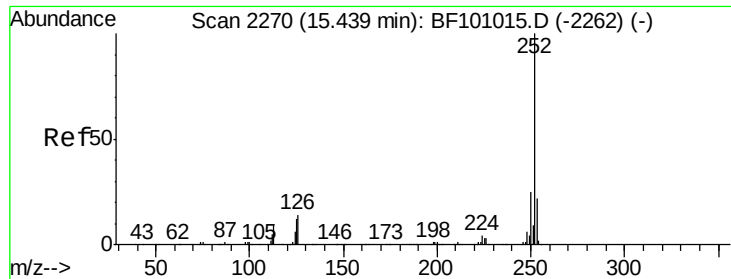
Sohil  
12/12/2017 3:59:30 PM



#88  
Benzo(k)fluoranthene  
Concen: 25.873 ng m  
RT: 15.10 min Scan# 2212  
Delta R.T. 0.02 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.9  | 26.9  |
| 125     | 9.3   | 10.2  | 15.2# |





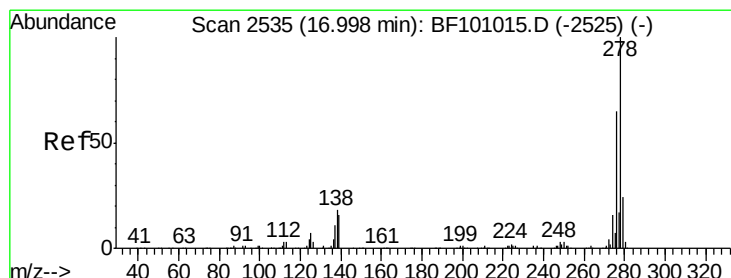
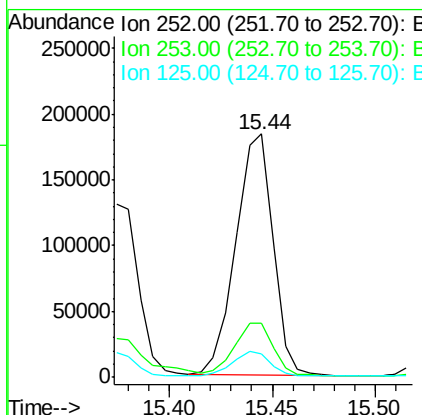
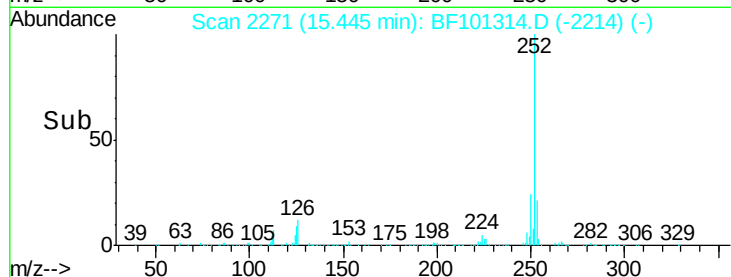
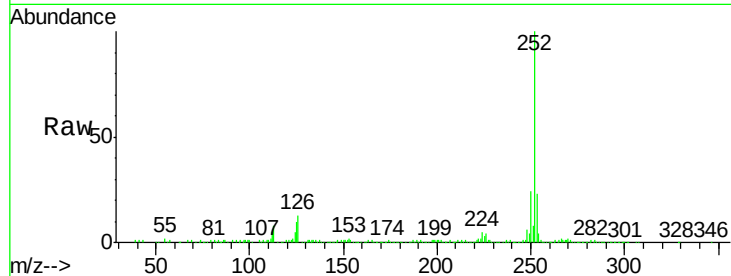
#89  
Benzo(a)pyrene  
Concen: 62.147 ng/ml  
RT: 15.44 min Scan# 2271  
Delta R.T. 0.04 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.1  | 25.7  |
| 125     | 9.6   | 9.8   | 14.6  |

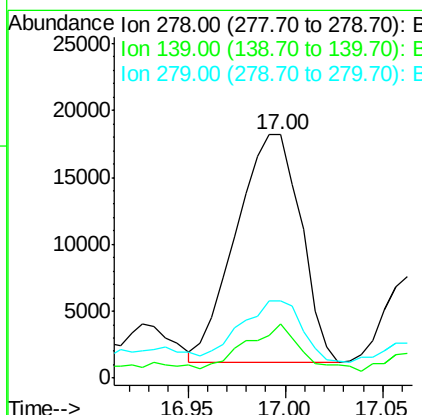
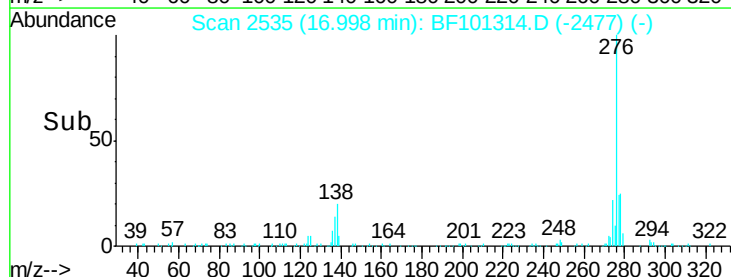
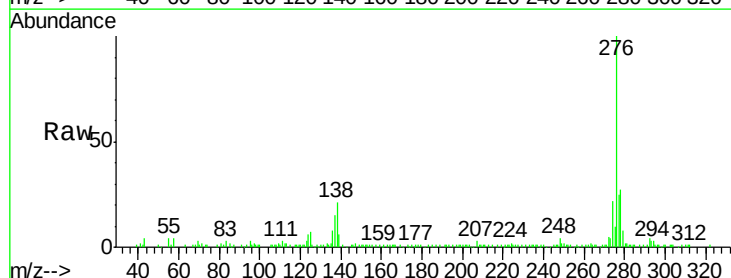
Manual Integrations  
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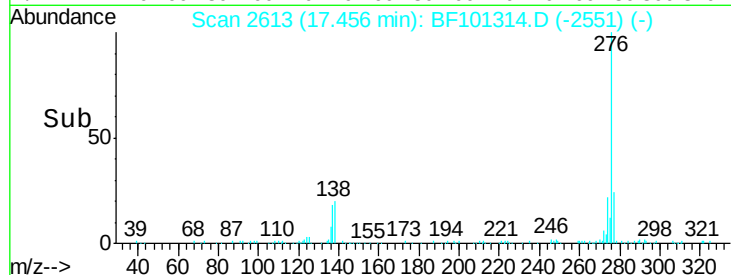
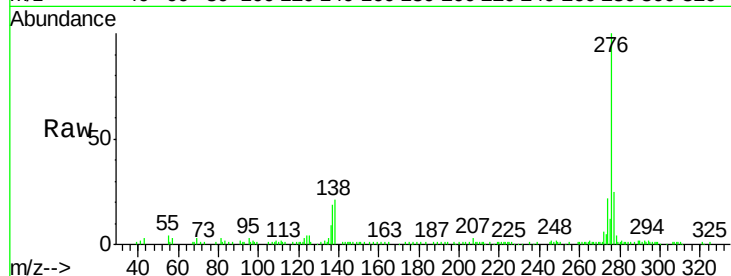
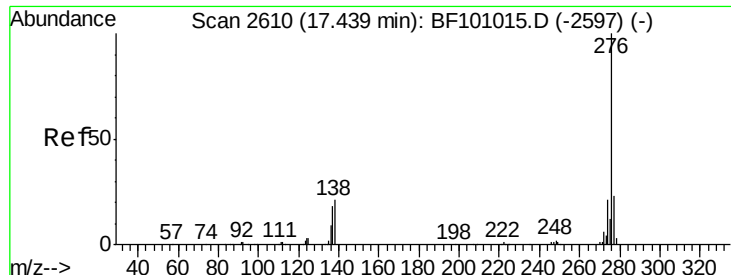
Sohil  
12/12/2017 3:59:30 PM



#90  
Dibenzo(a,h)anthracene  
Concen: 11.939 ng  
RT: 17.00 min Scan# 2535  
Delta R.T. 0.04 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.1  | 15.9  | 23.9  |
| 279     | 31.7  | 19.0  | 28.4  |





#91  
Benzo(a,h,i)perylene  
Concen: 44.370 ng  
RT: 17.46 min Scan# 2613  
Delta R.T. 0.06 min  
Lab File: BF101314.D  
Acq: 12 Dec 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
MAP-8-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.0  | 17.9  | 26.9  |
| 138     | 20.8  | 21.8  | 32.8  |

Manual Integrations  
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12/12/2017 3:59:30 PM

