

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061016\  
 Data File : BF087874.D  
 Acq On : 10 Jun 2016 15:00  
 Operator : UM/SJ  
 Sample : H3426-08 2X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-54

Manual Integrations  
 APPROVED

SOHIL  
 6/13/2016 7:10:56 PM

Quant Time: Jun 10 18:19:37 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 07 18:51:55 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 129207m  | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8          | 8.10  | 136  | 521945   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.85  | 164  | 224652   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.32 | 188  | 336503   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12            | 13.95 | 240  | 256343   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.36 | 264  | 257431   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 269576   | 35.67 | ng    | -0.03    |
| 7) Phenol-d6                | 6.43  | 99   | 379022   | 41.38 | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 214530   | 24.00 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 84256    | 35.52 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.18  | 172  | 462606   | 28.68 | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.90 | 244  | 263941   | 23.43 | ng    | -0.05    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.56  | 163  | 53538    | 3.29  | ng    | 99       |
| 70) Phenanthrene            | 11.35 | 178  | 257158   | 14.56 | ng    | 98       |
| 71) Anthracene              | 11.39 | 178  | 68578    | 3.85  | ng    | 98       |
| 74) Fluoranthene            | 12.53 | 202  | 308038   | 16.53 | ng    | 95       |
| 77) Pyrene                  | 12.75 | 202  | 260856   | 13.71 | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.94 | 228  | 137910   | 9.44  | ng    | 98       |
| 82) Chrysene                | 13.98 | 228  | 128789m  | 9.37  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.71 | 276  | 87658    | 6.87  | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 14.96 | 252  | 203428m  | 11.34 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.97 | 252  | 72938m   | 5.39  | ng    |          |
| 89) Benzo(a)pyrene          | 15.30 | 252  | 150963m  | 10.40 | ng    |          |
| 91) Benzo(a,h,i)perylene    | 17.12 | 276  | 82006    | 5.91  | ng    | 98       |

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

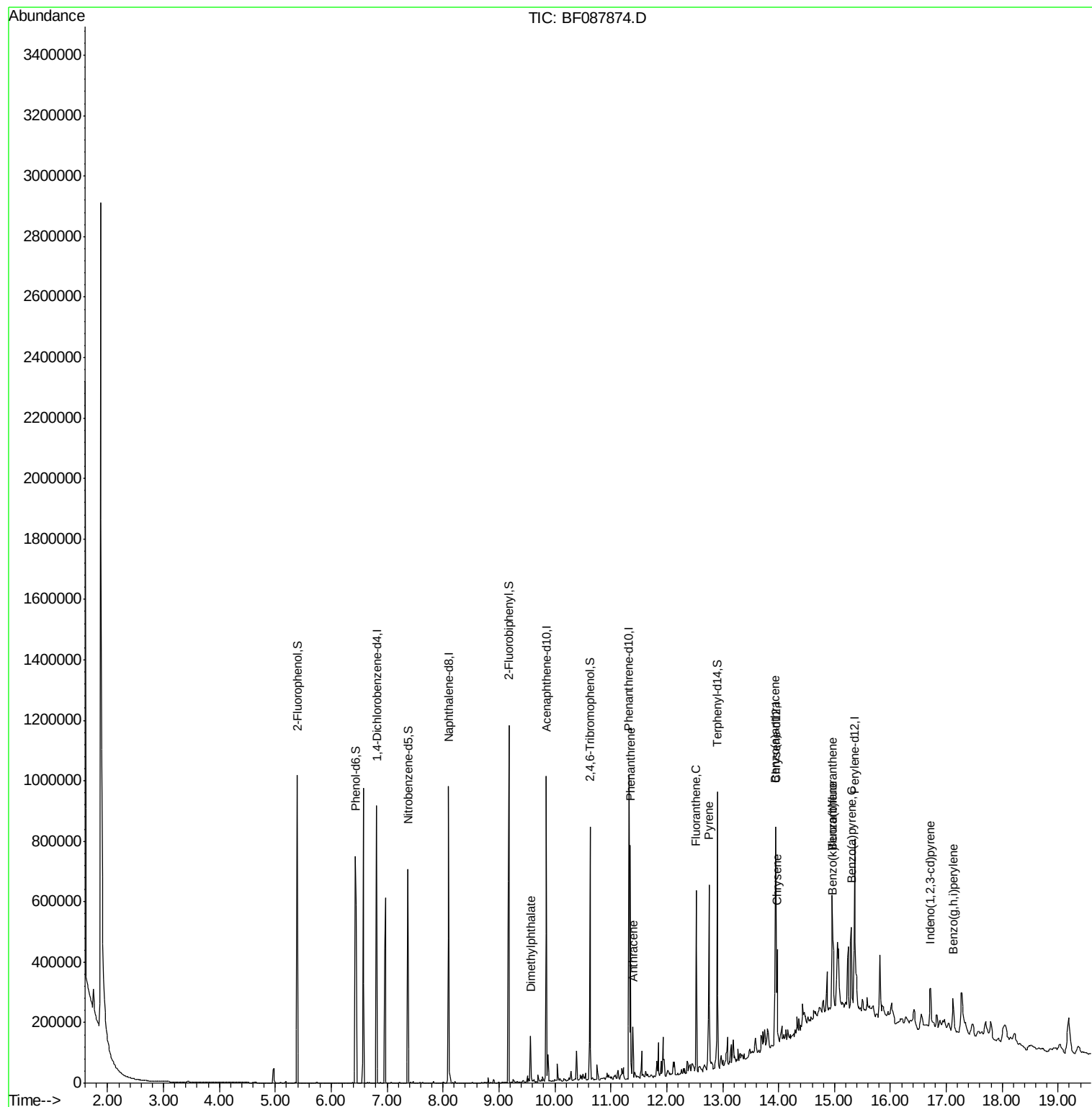
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061016\  
Data File : BF087874.D  
Acq On : 10 Jun 2016 15:00  
Operator : UM/SJ  
Sample : H3426-08 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

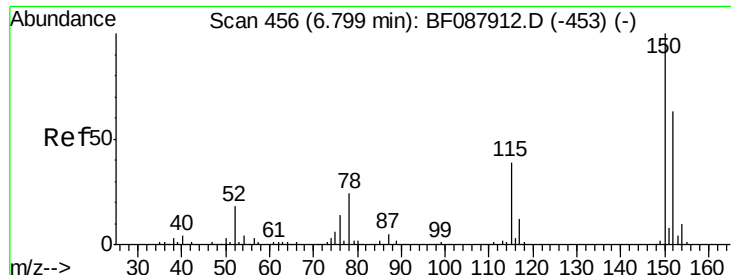
Instrument :  
BNA\_F  
ClientSampleId :  
SS-54

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Quant Time: Jun 10 18:19:37 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 07 18:51:55 2016  
Response via : Initial Calibration





#1

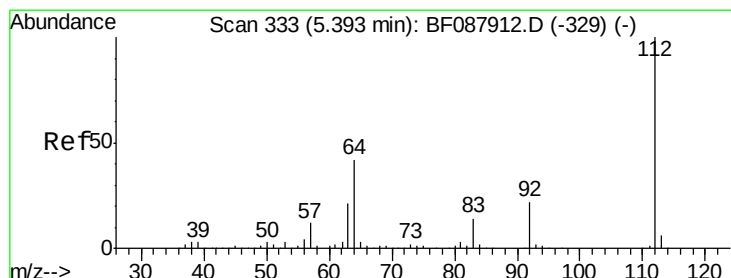
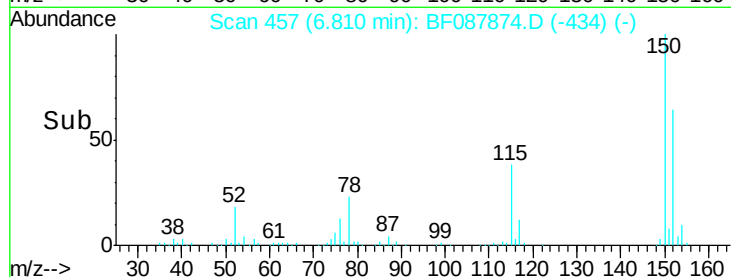
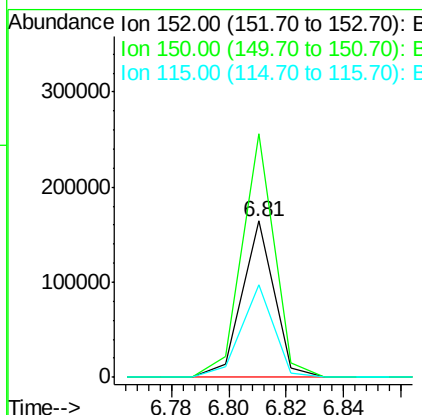
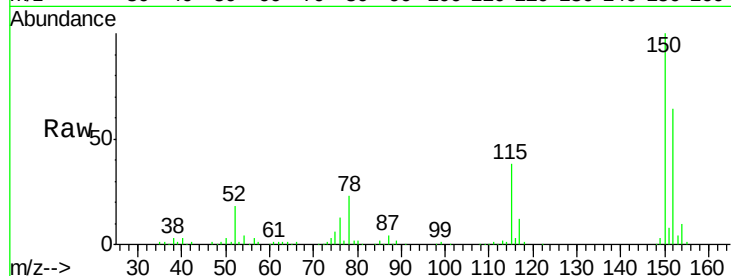
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng/ml  
RT: 6.81 min Scan# 457  
Delta R.T. -0.03 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

Instrument :  
BNA\_F  
ClientSampleId :  
SS-54

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 129207 |       |       |
| 150     | 155.9 | 123.8  | 185.6 |       |
| 115     | 59.6  | 39.6   | 59.4  |       |

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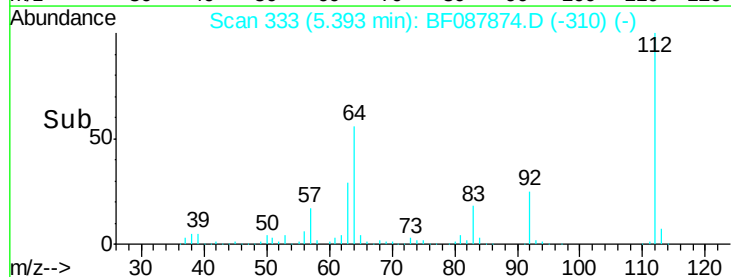
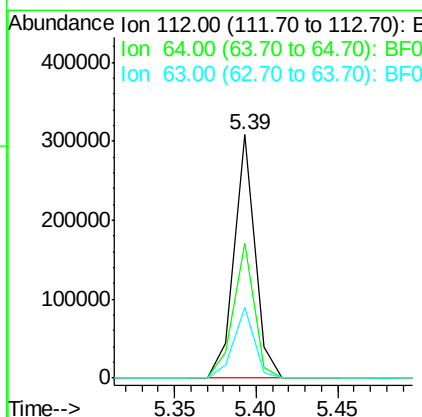
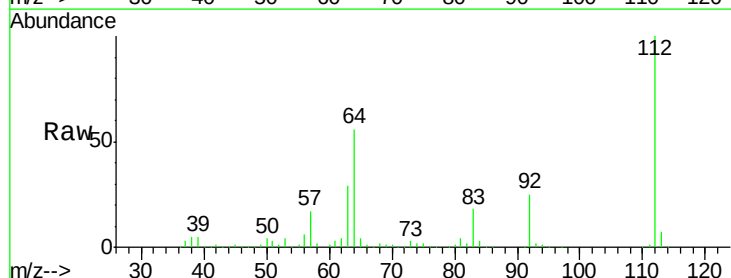
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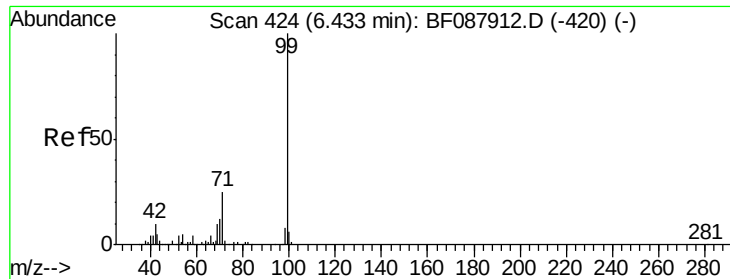


#5

2-Fluorophenol  
Concen: 35.67 ng  
RT: 5.39 min Scan# 333  
Delta R.T. -0.03 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 269576 |       |       |
| 64      | 55.5  | 42.2   | 63.2  |       |
| 63      | 29.0  | 21.8   | 32.8  |       |





#7

Phenol-d6

Concen: 41.38 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.05 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

Instrument :

BNA\_F

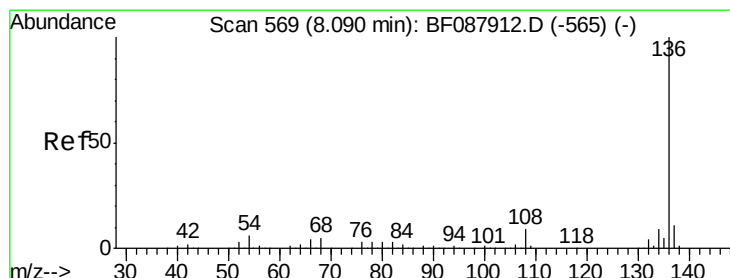
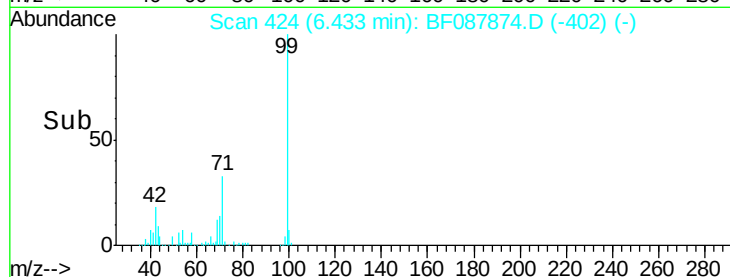
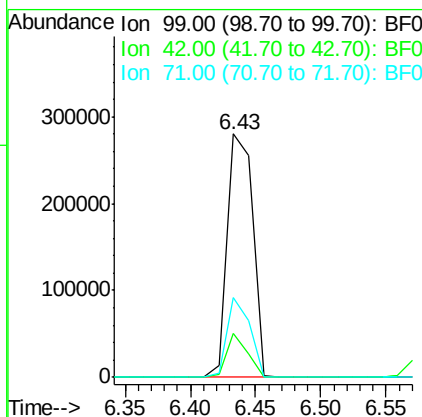
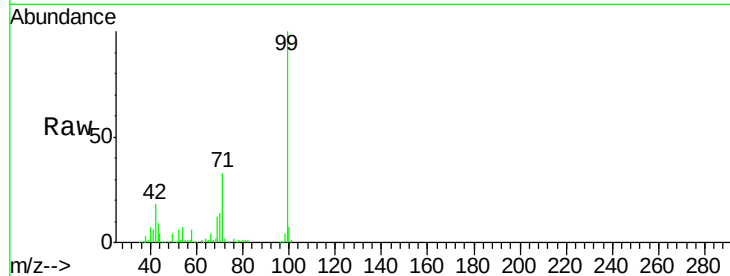
ClientSampleId :

SS-54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 379022 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.8  | 12.2  | 18.2   |
| 71        | 32.5  | 23.4  | 35.0   |

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#21

Naphthalene-d8

Concen: 20.00 ng

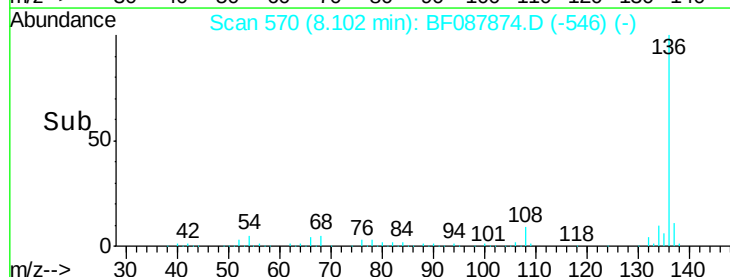
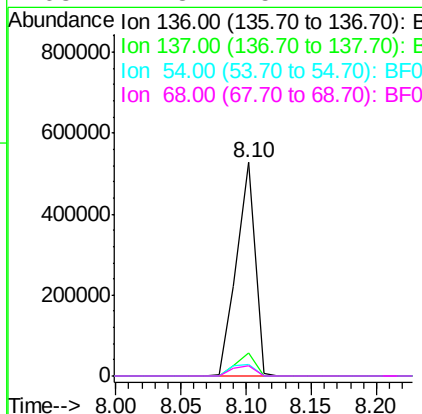
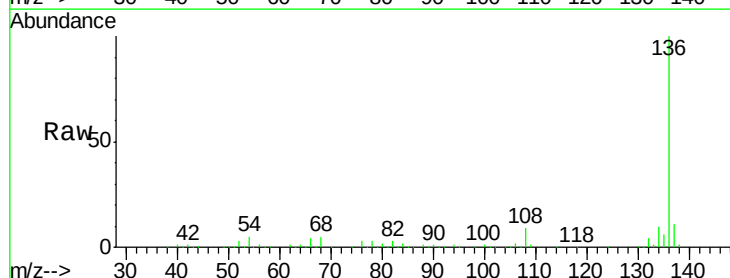
RT: 8.10 min Scan# 570

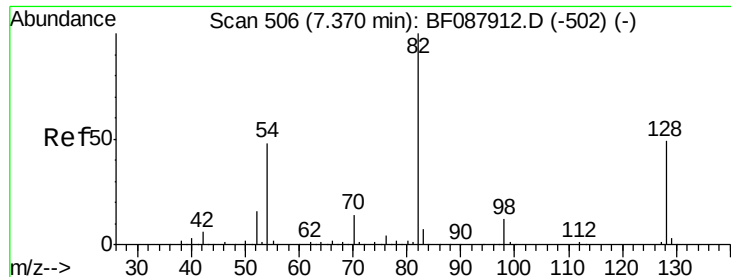
Delta R.T. -0.02 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 521945 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 9.1   | 13.7   |
| 54        | 5.4   | 6.6   | 10.0#  |
| 68        | 4.8   | 5.1   | 7.7#   |





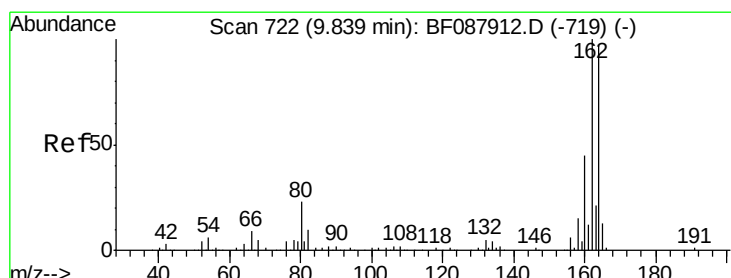
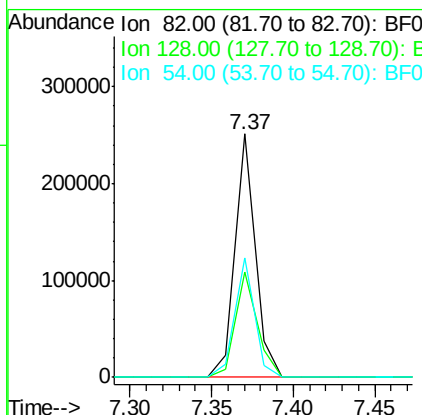
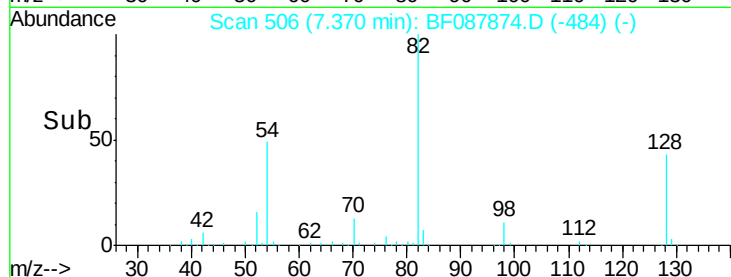
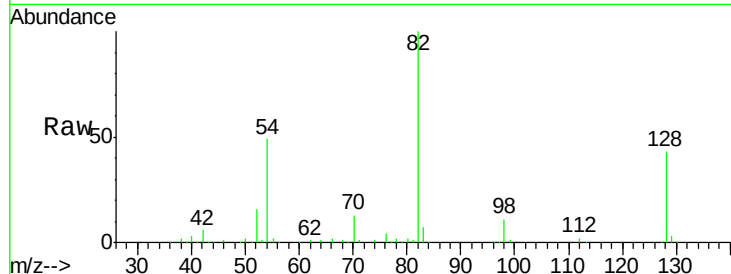
#23  
 Nitrobenzene-d5  
 Concen: 24.00 ng  
 RT: 7.37 min Scan# 506  
 Delta R.T. -0.05 min  
 Lab File: BF087874.D  
 Acq: 10 Jun 2016 15:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-54

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 43.5  | 35.9 | 53.9  |       |
| 54      | 48.9  | 40.9 | 61.3  |       |

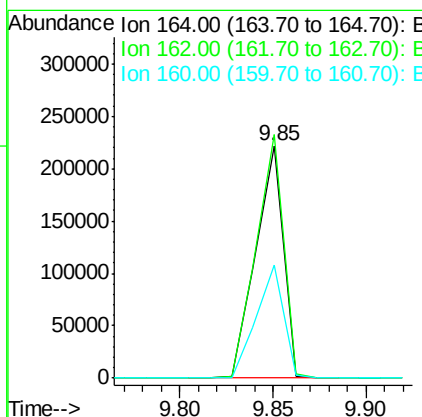
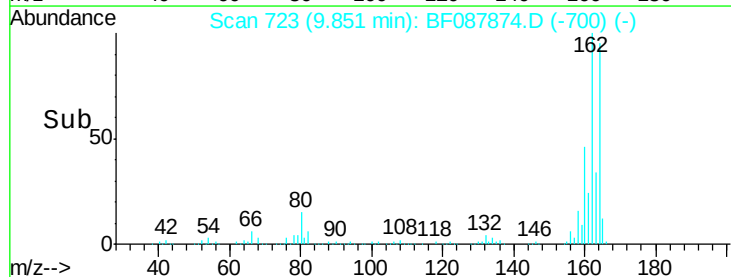
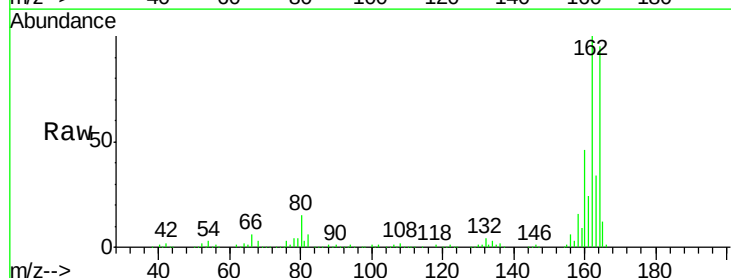
Manual Integrations  
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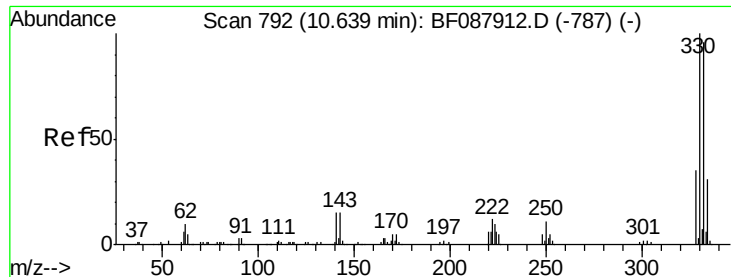
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.85 min Scan# 723  
 Delta R.T. -0.03 min  
 Lab File: BF087874.D  
 Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.9 | 85.4 | 128.2 |       |
| 160     | 48.6  | 39.5 | 59.3  |       |





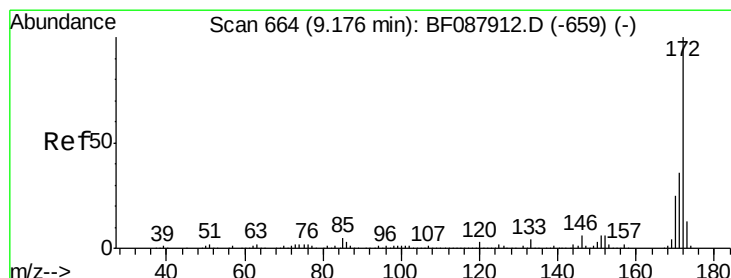
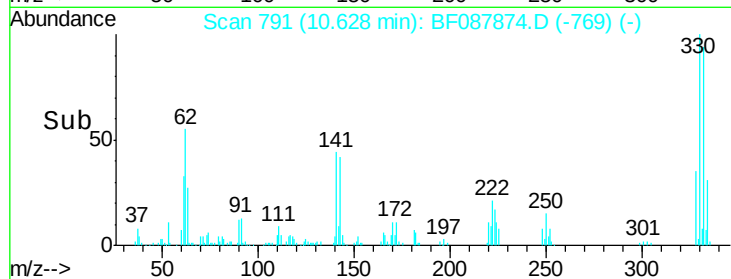
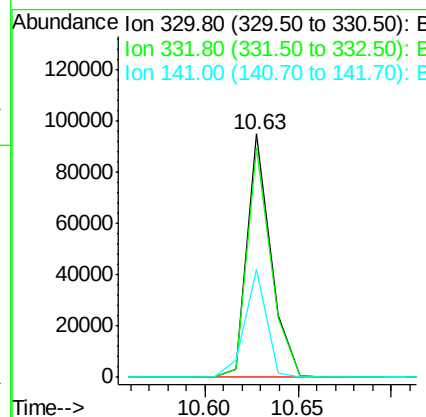
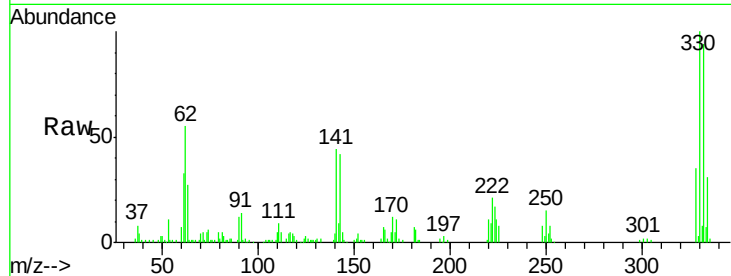
#41  
 2,4,6-Tribromophenol  
 Concen: 35.52 ng  
 RT: 10.63 min Scan# 791  
 Delta R.T. -0.05 min  
 Lab File: BF087874.D  
 Acq: 10 Jun 2016 15:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-54

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 94.4  | 0.0  | 0.0   | 0.0   |
| 141     | 41.6  | 0.0  | 0.0   | 0.0   |

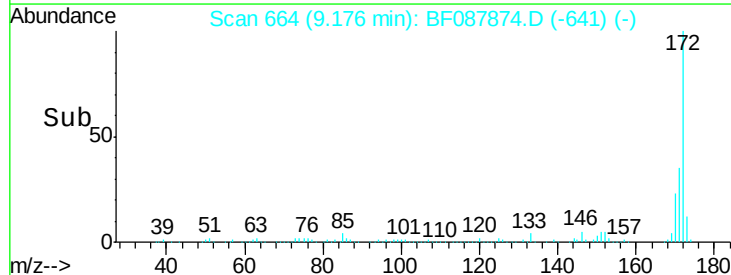
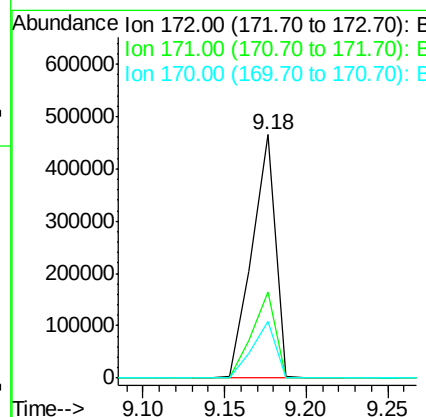
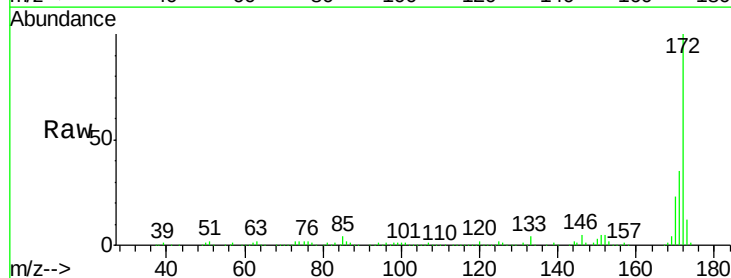
Manual Integrations  
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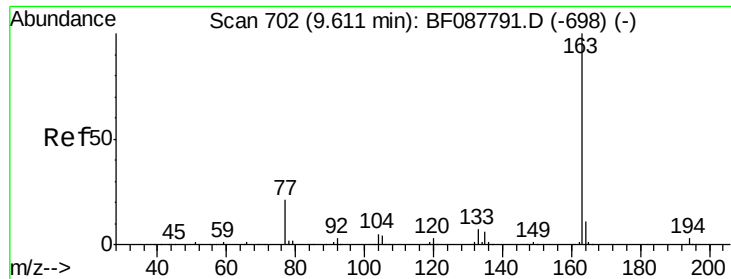
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#44  
 2-Fluorobiphenyl  
 Concen: 28.68 ng  
 RT: 9.18 min Scan# 664  
 Delta R.T. -0.03 min  
 Lab File: BF087874.D  
 Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.3  | 28.6 | 43.0  |       |
| 170     | 23.3  | 19.2 | 28.8  |       |





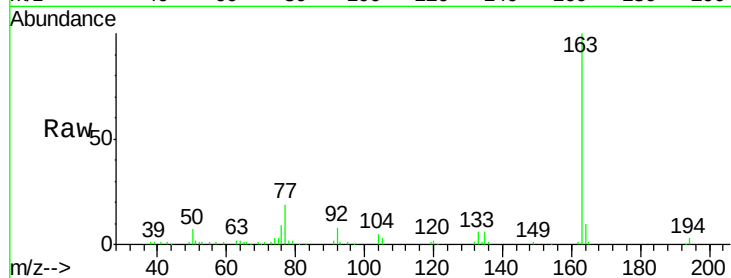
#49  
Dimethylphthalate  
Concen: 3.29 ng  
RT: 9.56 min Scan# 698  
Delta R.T. -0.05 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

Instrument :  
BNA\_F  
ClientSampleId :  
SS-54

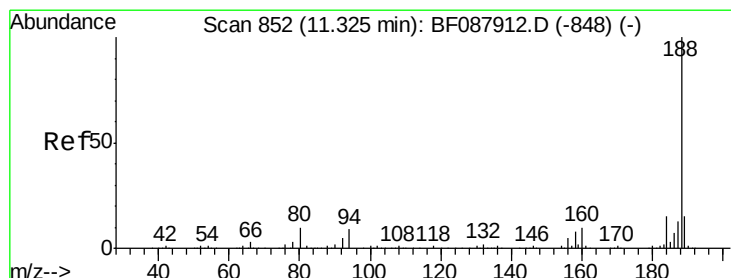
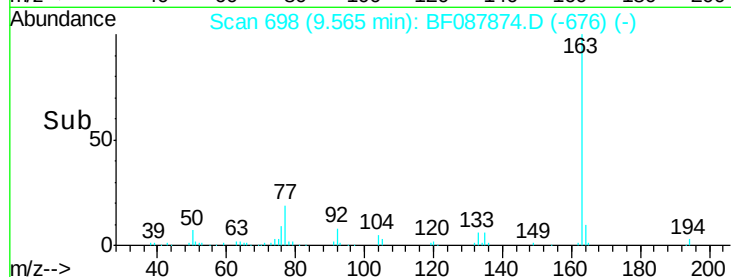
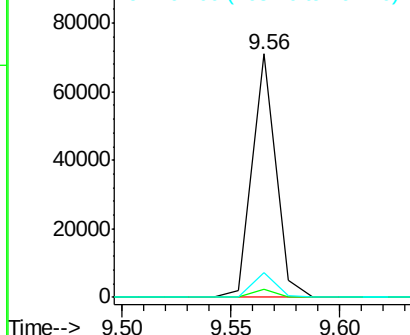
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 53538 |       |       |
| 194     | 3.3   |       | 2.8   | 4.2   |
| 164     | 10.2  |       | 8.3   | 12.5  |

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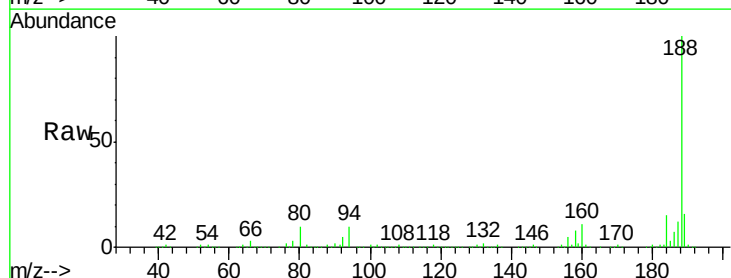


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

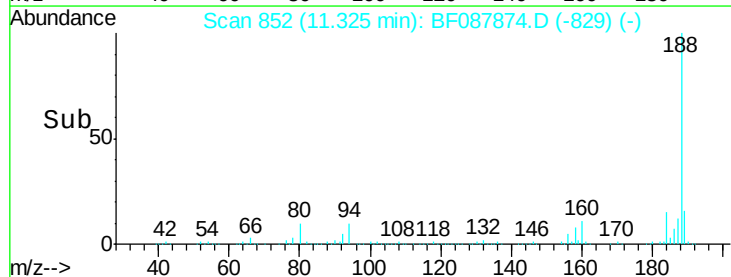
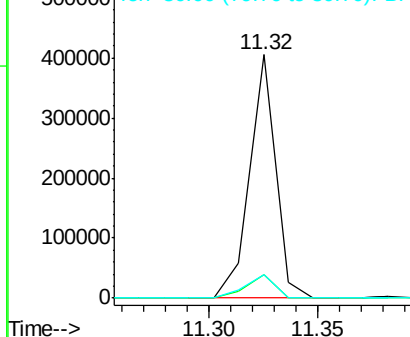


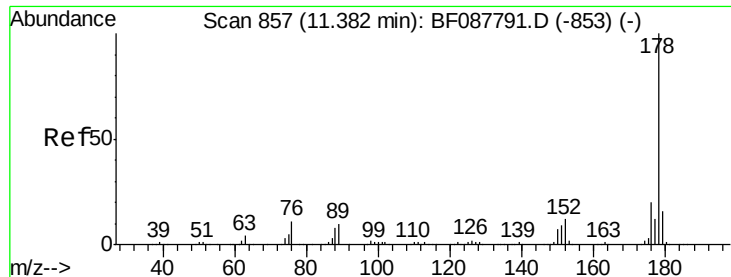
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.32 min Scan# 852  
Delta R.T. -0.03 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 336503 |       |       |
| 94      | 9.9   |        | 9.0   | 13.6  |
| 80      | 9.8   |        | 10.0  | 15.0  |



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: 14.56 ng

RT: 11.35 min Scan# 854

Delta R.T. -0.03 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

Instrument :

BNA\_F

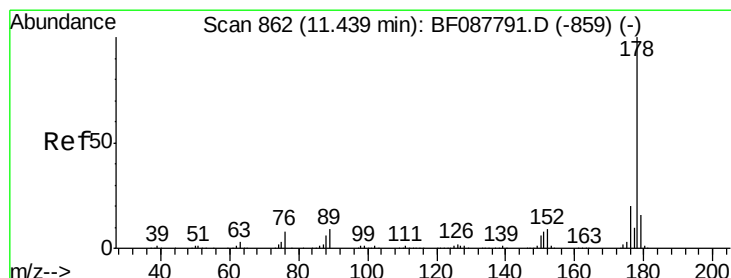
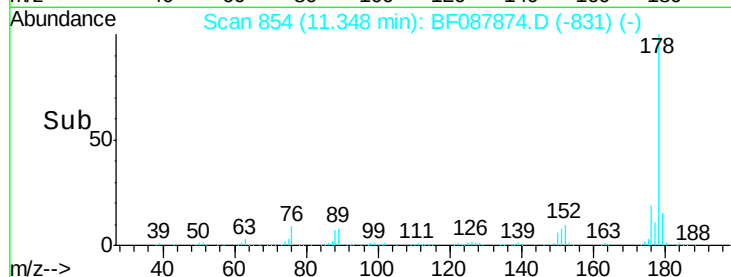
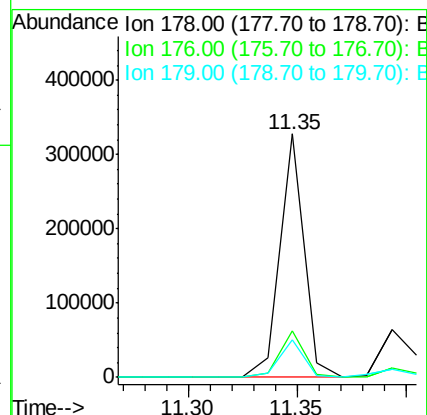
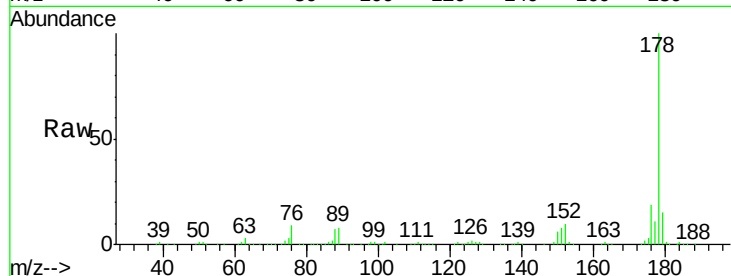
ClientSampleId :

SS-54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 257158 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.2  | 15.8  | 23.6   |
| 179       | 15.3  | 13.0  | 19.4   |

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#71

Anthracene

Concen: 3.85 ng

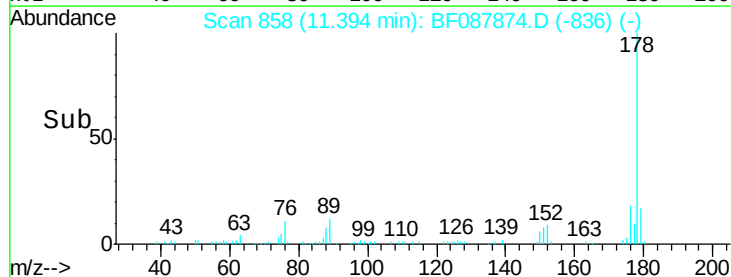
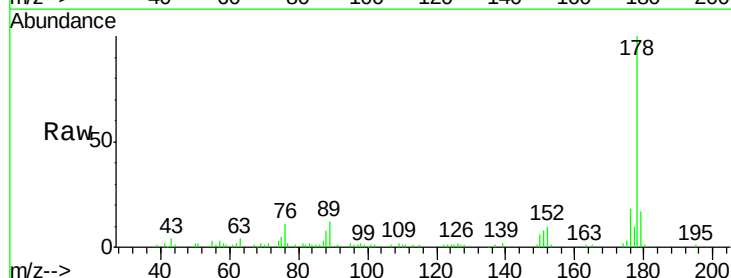
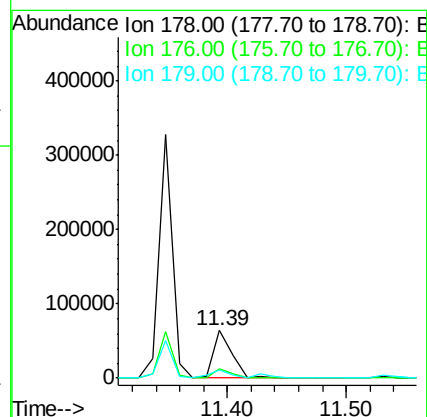
RT: 11.39 min Scan# 858

Delta R.T. -0.05 min

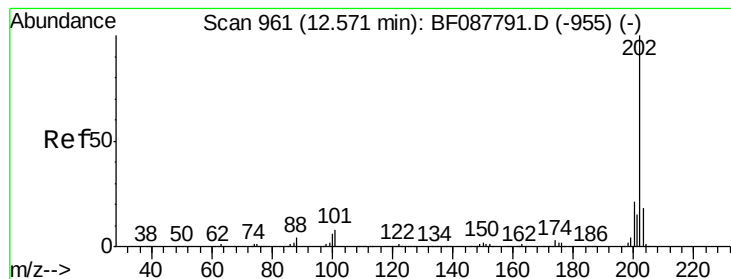
Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 68578 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.4  | 15.6  | 23.4  |
| 179       | 16.6  | 12.8  | 19.2  |







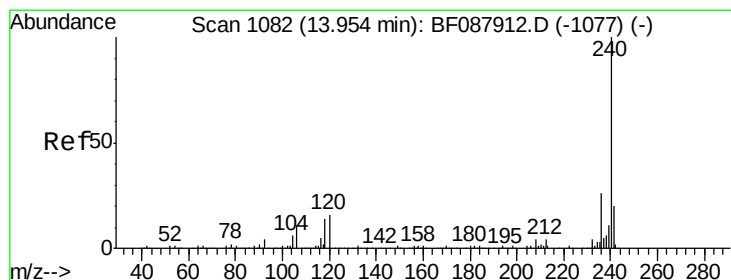
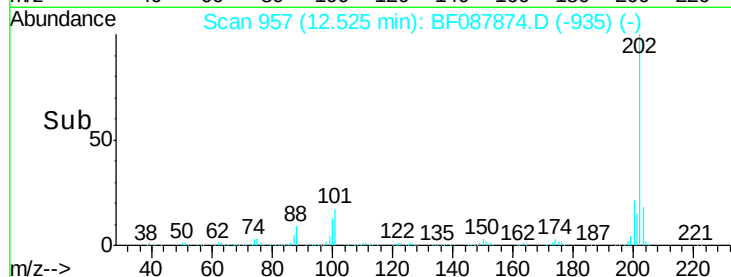
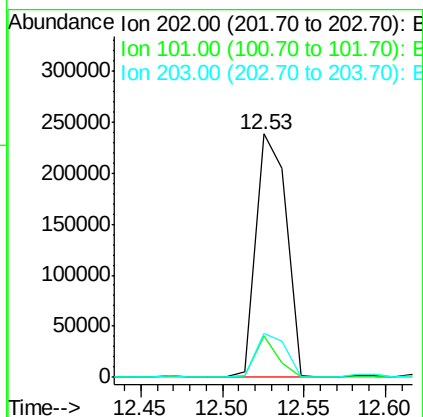
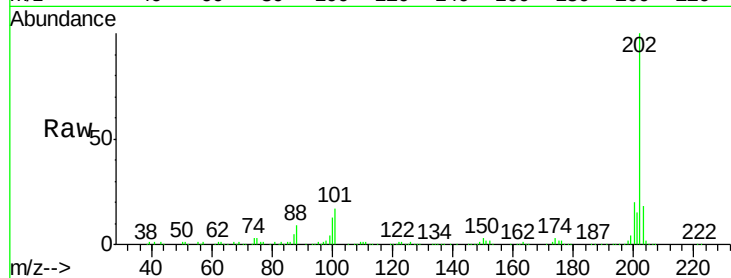
#74  
Fluoranthene  
Concen: 16.53 ng  
RT: 12.53 min Scan# 957  
Delta R.T. -0.05 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

Instrument :  
BNA\_F  
ClientSampleId :  
SS-54

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 17.2  | 0.0        | 33.1  |
| 203     | 17.8  | 0.0        | 38.1  |

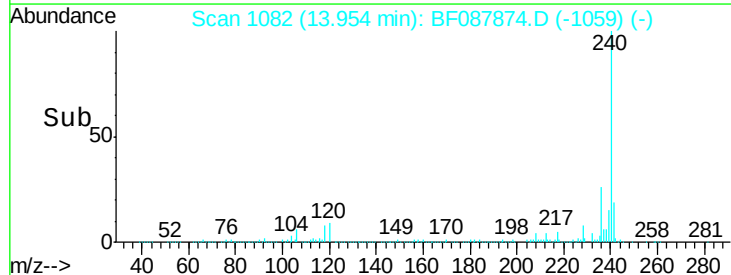
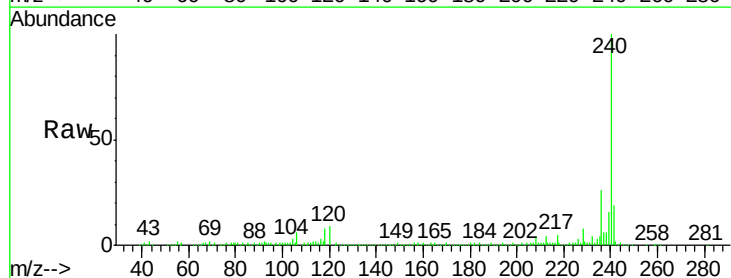
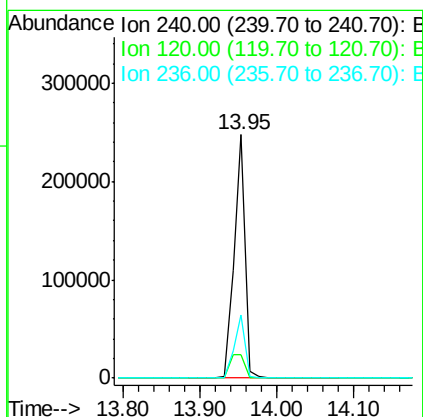
Manual Integrations  
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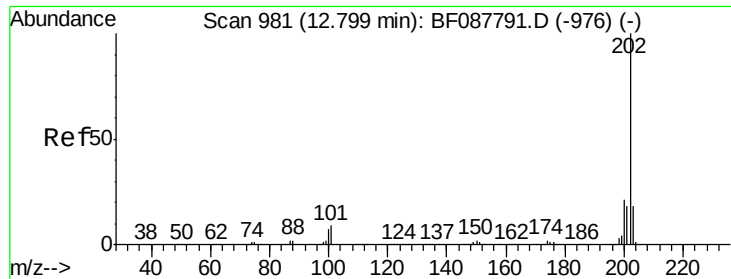
SOHIL  
6/13/2016 7:10:56 PM



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.95 min Scan# 1082  
Delta R.T. -0.03 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 9.4   | 6.8        | 10.2  |
| 236     | 25.9  | 20.2       | 30.2  |





#77

Pvrene

Concen: 13.71 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.05 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

Instrument :

BNA\_F

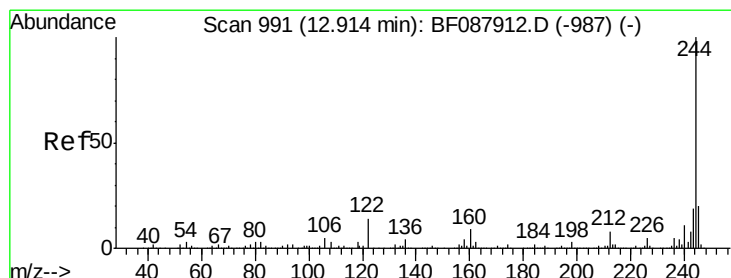
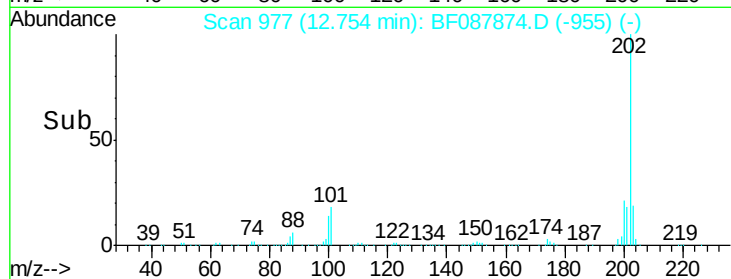
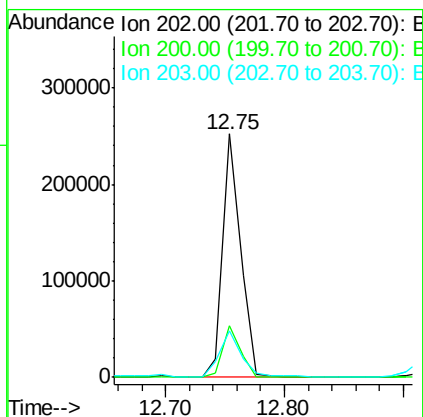
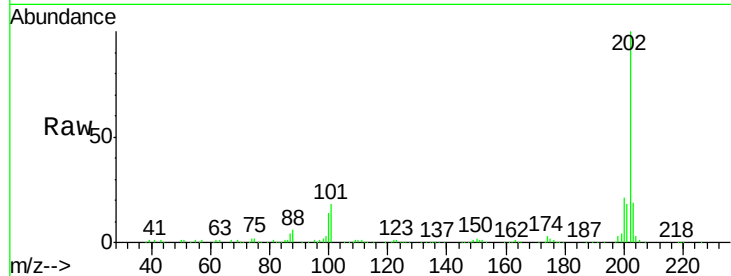
ClientSampleId :

SS-54

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 260856 |       |       |
| 200     | 21.4  |        | 17.4  | 26.2  |
| 203     | 19.3  |        | 14.5  | 21.7  |

Manual Integrations  
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#78

Terphenyl-d14

Concen: 23.43 ng

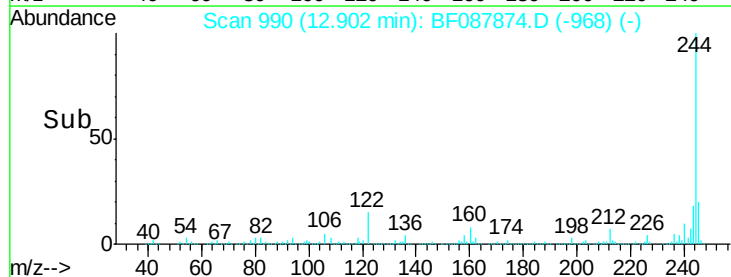
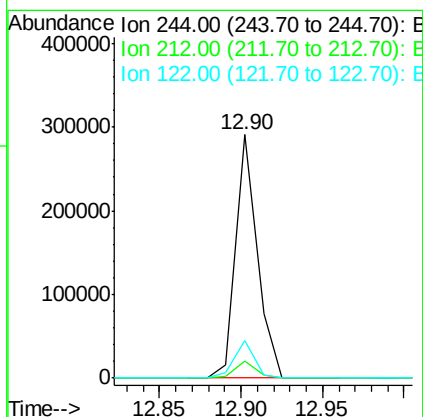
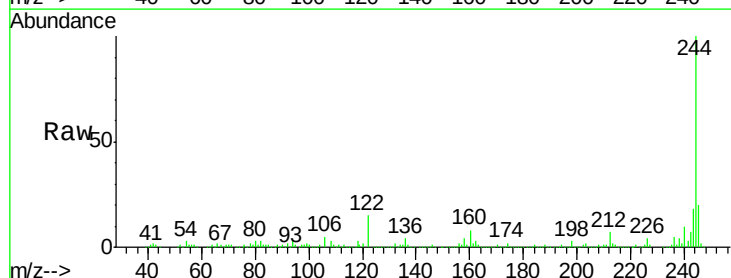
RT: 12.90 min Scan# 990

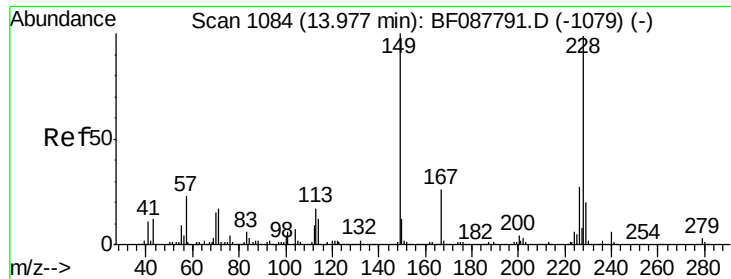
Delta R.T. -0.05 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 263941 |       |       |
| 212     | 7.0   |        | 6.0   | 9.0   |
| 122     | 15.4  |        | 11.2  | 16.8  |





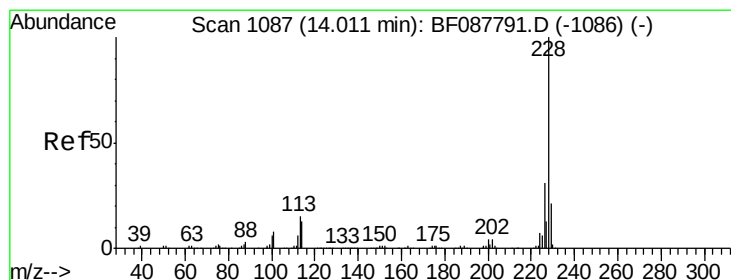
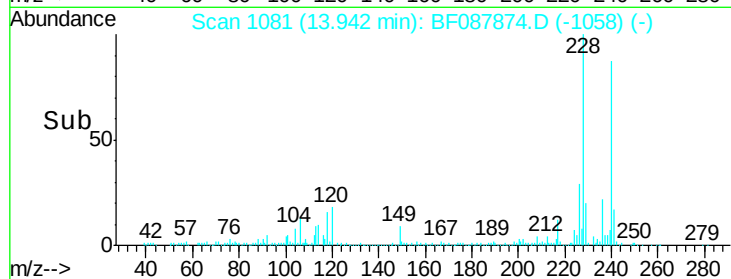
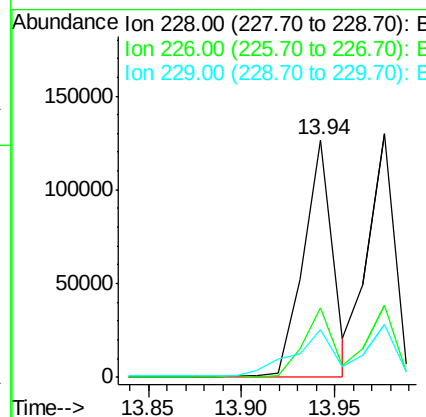
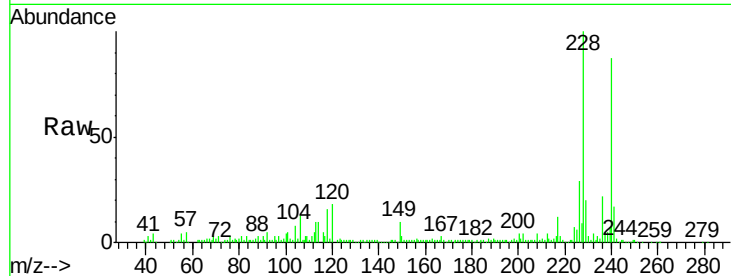
#80  
Benzo(a)anthracene  
Concen: 9.44 ng  
RT: 13.94 min Scan# 1081  
Delta R.T. -0.03 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

Instrument :  
BNA\_F  
ClientSampleId :  
SS-54

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 22.3  | 33.5  |
| 229     | 20.4  | 16.0  | 24.0  |

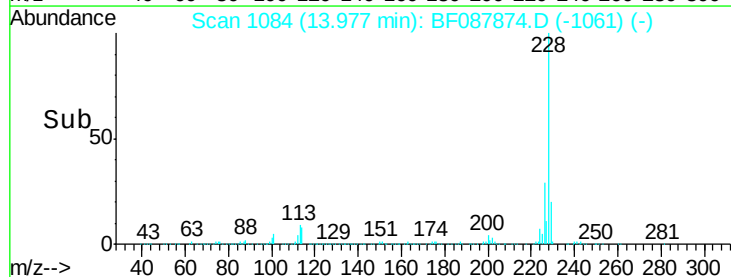
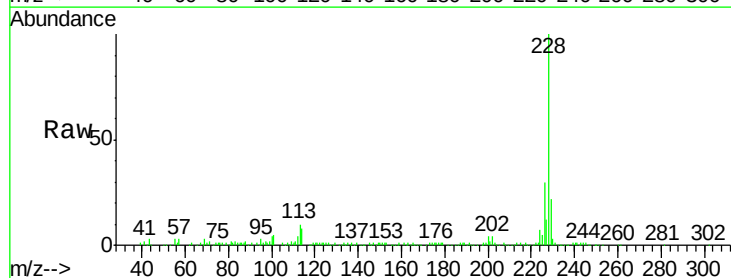
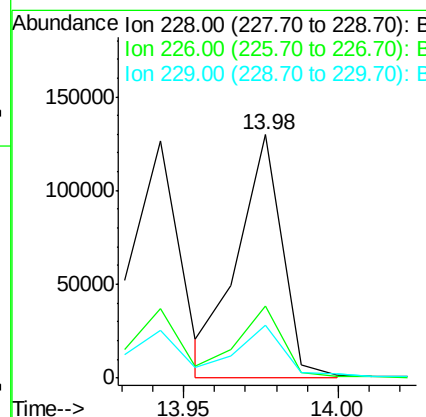
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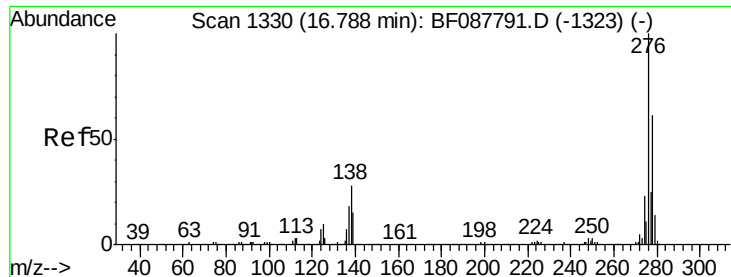
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6/13/2016 7:10:56 PM



#82  
Chrysene  
Concen: 9.37 ng m  
RT: 13.98 min Scan# 1084  
Delta R.T. -0.03 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 25.4  | 38.2  |
| 229     | 21.6  | 16.3  | 24.5  |





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.87 ng

RT: 16.71 min Scan# 1323

Delta R.T. -0.08 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

Instrument :

BNA\_F

ClientSampleId :

SS-54

Tot Ion:276 Resp: 87658  
Ion Ratio Lower Upper

276 100

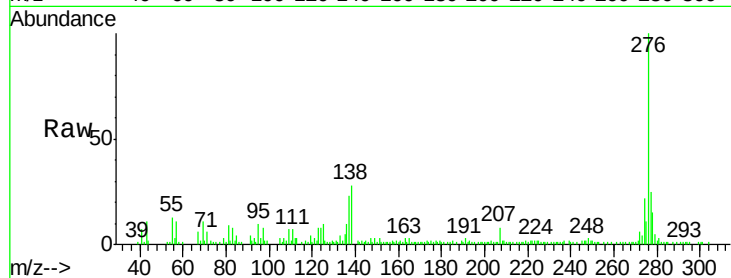
138 27.0 0.0 0.0#

277 28.8 0.0 0.0#

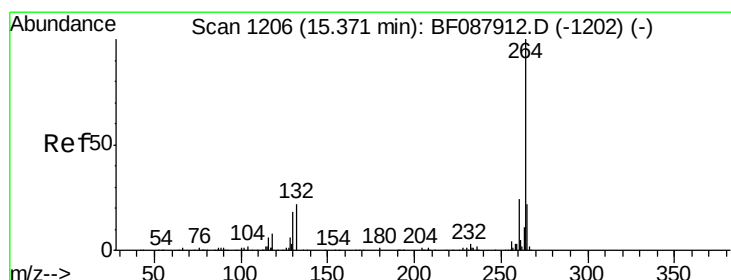
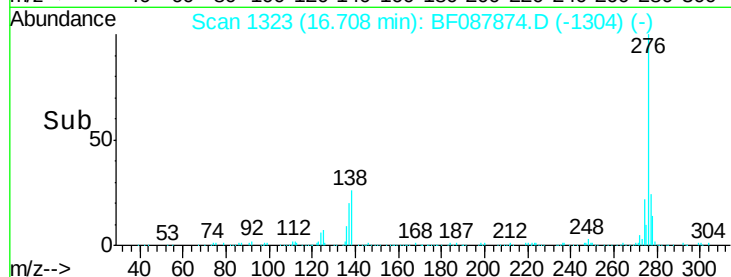
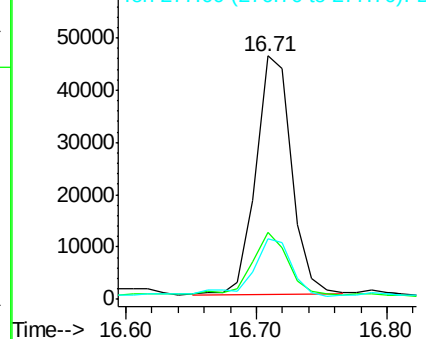
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Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.36 min Scan# 1205

Delta R.T. -0.03 min

Lab File: BF087874.D

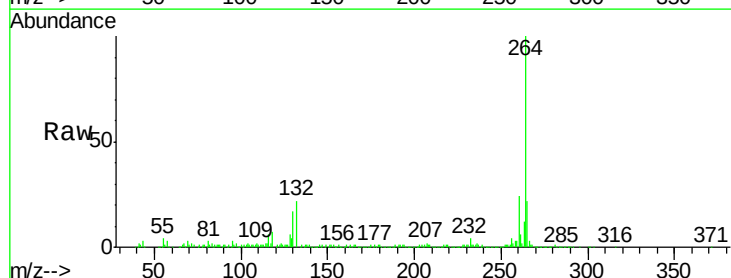
Acq: 10 Jun 2016 15:00

Tgt Ion:264 Resp: 257431  
Ion Ratio Lower Upper

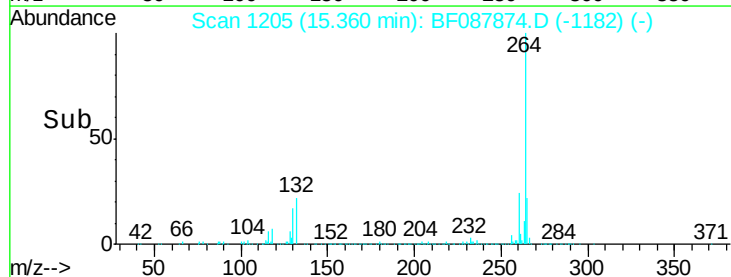
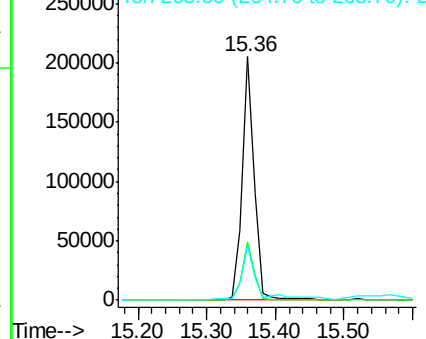
264 100

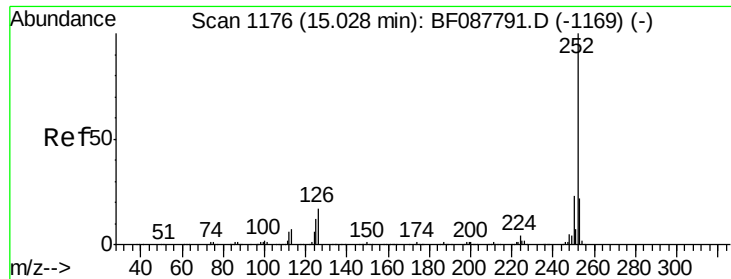
260 23.8 19.2 28.8

265 22.5 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 11.34 ng m

RT: 14.96 min Scan# 1170

Delta R.T. -0.03 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

Instrument :

BNA\_F

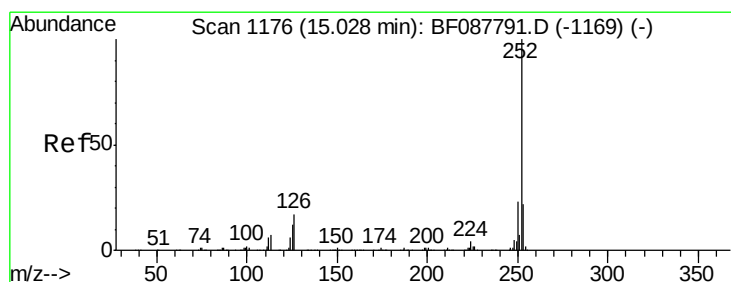
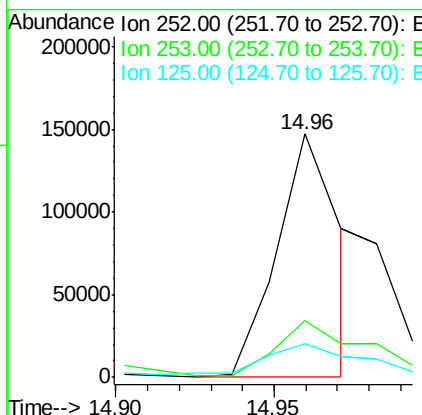
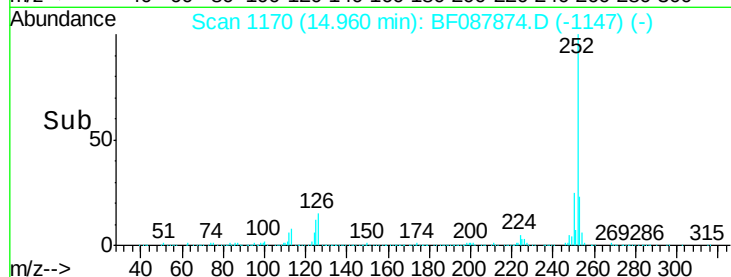
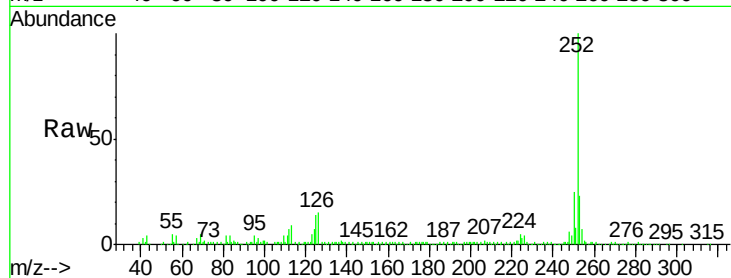
Client Sample Id :

SS-54

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.4  | 26.2  |
| 125     | 13.8  | 7.1   | 10.7  |

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#88

Benzo(k)fluoranthene

Concen: 5.39 ng m

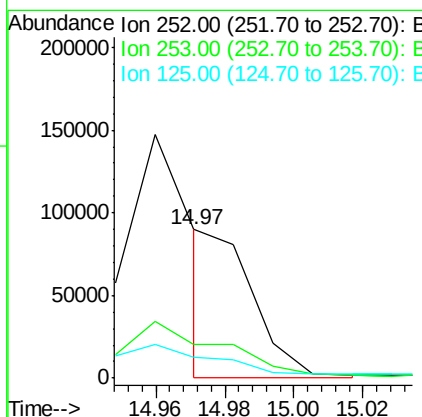
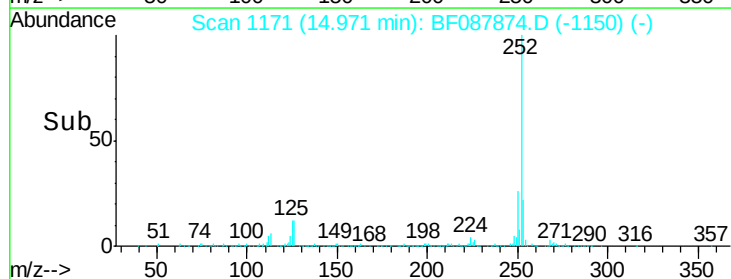
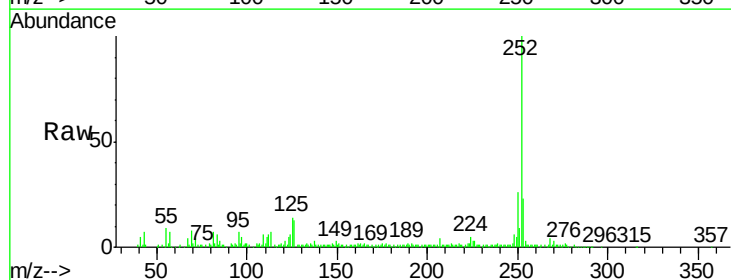
RT: 14.97 min Scan# 1171

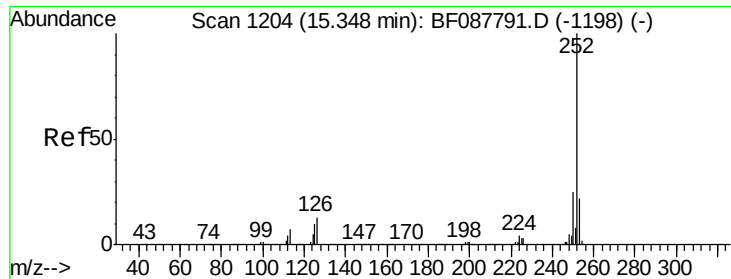
Delta R.T. -0.06 min

Lab File: BF087874.D

Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.0  | 27.0  |
| 125     | 14.1  | 11.2  | 16.8  |





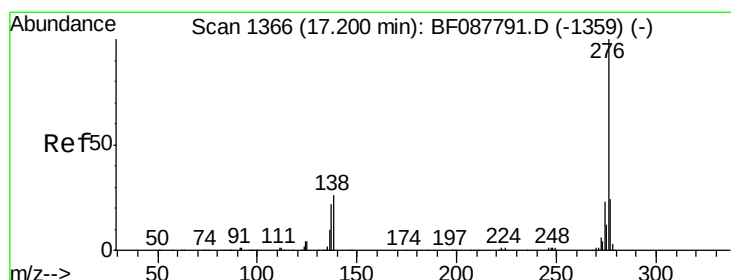
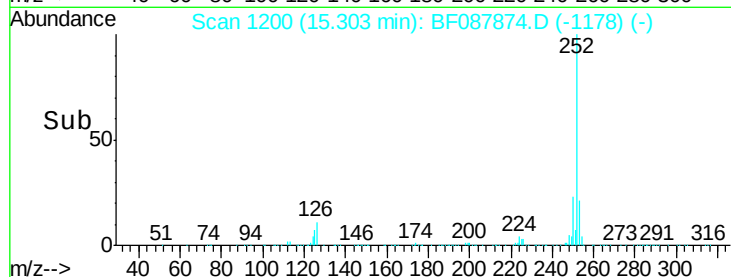
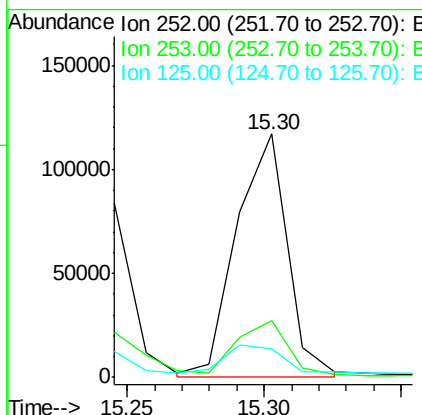
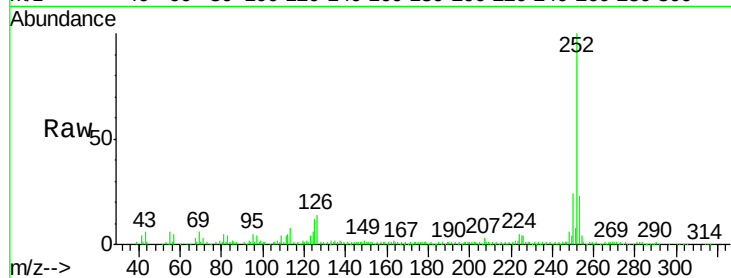
#89  
Benzo(a)pyrene  
Concen: 10.40 ng/ml  
RT: 15.30 min Scan# 1200  
Delta R.T. -0.05 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

Instrument :  
BNA\_F  
ClientSampleId :  
SS-54

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.9  | 26.9  |
| 125     | 11.7  | 12.5  | 18.7# |

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#91  
Benzo(g,h,i)perylene  
Concen: 5.91 ng/ml  
RT: 17.12 min Scan# 1359  
Delta R.T. -0.08 min  
Lab File: BF087874.D  
Acq: 10 Jun 2016 15:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.3  | 18.9  | 28.3  |
| 138     | 28.1  | 21.4  | 32.2  |

