

Data Path : Z:\HPCHEM1\BNA E\DATA\BE121417\  
 Data File : BE094987.D  
 Acq On : 14 Dec 2017 21:24  
 Operator : SJ/JU  
 Sample : I6797-07  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EB-2017-12-07

Manual Integrations  
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 12/15/2017 7:54:45 PM

Quant Time: Dec 15 08:25:11 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 14 18:42:53 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.47  | 152  | 5615     | 0.40  | ng    | 0.00        |
| 7) Naphthalene-d8           | 11.33 | 136  | 12487    | 0.40  | ng    | 0.00        |
| 13) Acenaphthene-d10        | 15.06 | 164  | 6893     | 0.40  | ng    | 0.00        |
| 19) Phenanthrene-d10        | 17.77 | 188  | 16525    | 0.40  | ng    | 0.00        |
| 27) Chrysene-d12            | 21.87 | 240  | 20154    | 0.40  | ng    | 0.00        |
| 34) Perylene-d12            | 24.54 | 264  | 16434    | 0.40  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |       |       |             |
| 4) 2-Fluorophenol           | 5.96  | 112  | 1116     | 0.13  | ng    | 0.00        |
| 5) Phenol-d6                | 7.59  | 99   | 953      | 0.07  | ng    | 0.00        |
| 8) Nitrobenzene-d5          | 9.65  | 82   | 4342     | 0.42  | ng    | 0.00        |
| 11) 2-Methylnaphthalene-d10 | 12.86 | 152  | 6776     | 0.33  | ng    | 0.00        |
| 14) 2,4,6-Tribromophenol    | 16.53 | 330  | 373      | 0.23  | ng    | 0.00        |
| 15) 2-Fluorobiphenyl        | 13.70 | 172  | 12851    | 0.42  | ng    | 0.00        |
| 25) Fluoranthene-d10        | 19.75 | 212  | 76128    | 0.36  | ng    | 0.00        |
| 29) Terphenyl-d14           | 20.31 | 244  | 17864    | 0.47  | ng    | 0.00        |
| Target Compounds            |       |      |          |       |       |             |
| 30) Benzo(a)anthracene      | 21.85 | 228  | 2186     | 0.037 | ng    | Qvalue # 67 |
| 31) Chrysene                | 21.90 | 228  | 2093m    | 0.032 | ng    |             |
| 33) Indeno(1,2,3-cd)pyrene  | 27.40 | 276  | 2214     | 0.041 | ng    | 100         |
| 35) Benzo(b)fluoranthene    | 23.72 | 252  | 2287     | 0.038 | ng    | # 87        |
| 36) Benzo(k)fluoranthene    | 23.77 | 252  | 2059     | 0.034 | ng    | # 66        |
| 37) Benzo(a)pyrene          | 24.42 | 252  | 1867     | 0.035 | ng    | # 56        |
| 38) Dibenzo(a,h)anthracene  | 27.43 | 278  | 1687     | 0.034 | ng    | # 79        |
| 39) Benzo(g,h,i)perylene    | 28.29 | 276  | 1920     | 0.039 | ng    | # 83        |

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

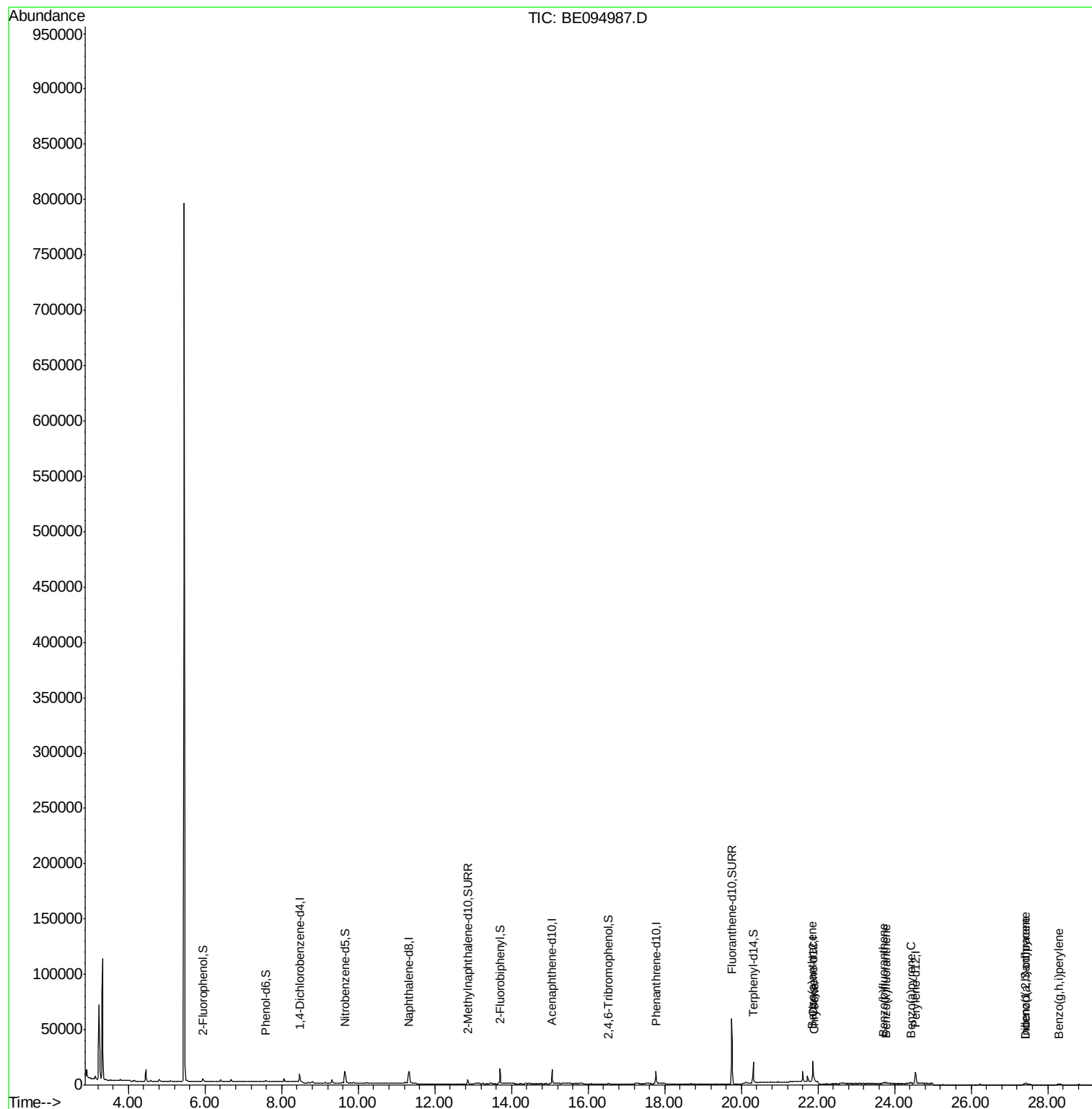
Data Path : Z:\HPCHEM1\BNA E\DATA\BE121417\  
Data File : BE094987.D  
Acq On : 14 Dec 2017 21:24  
Operator : SJ/JU  
Sample : I6797-07  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

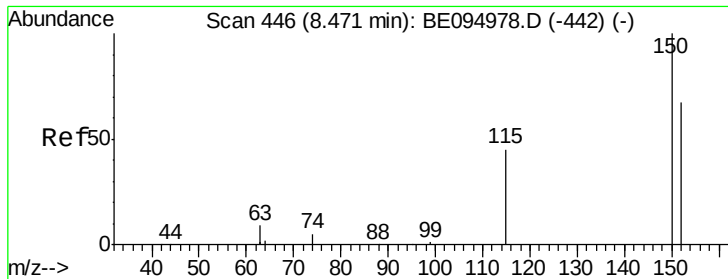
Instrument :  
BNA\_E  
ClientSampleId :  
EB-2017-12-07

Quant Time: Dec 15 08:25:11 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 14 18:42:53 2017  
Response via : Initial Calibration

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#1

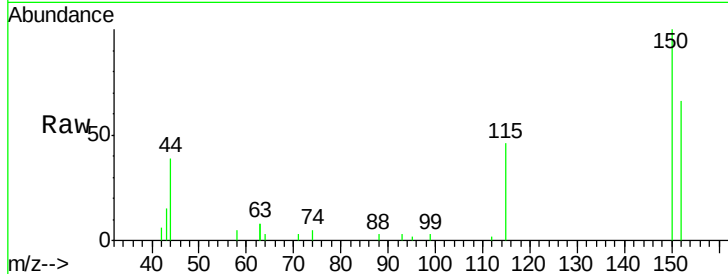
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.47 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

Instrument :  
BNA\_E  
ClientSampleId :  
EB-2017-12-07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.3 | 117.2 | 175.8 |
| 115     | 69.6  | 57.0  | 85.6  |

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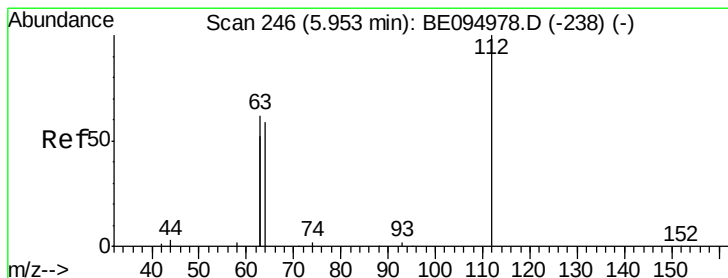
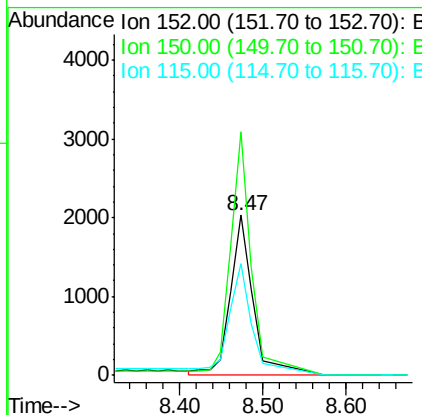
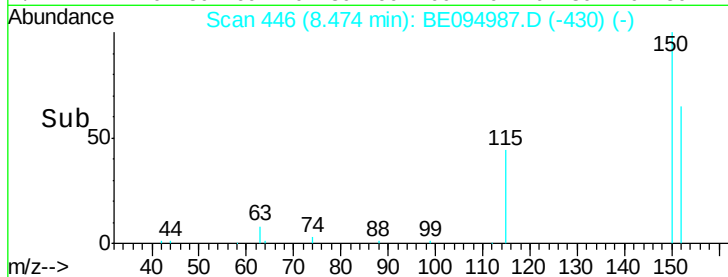


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

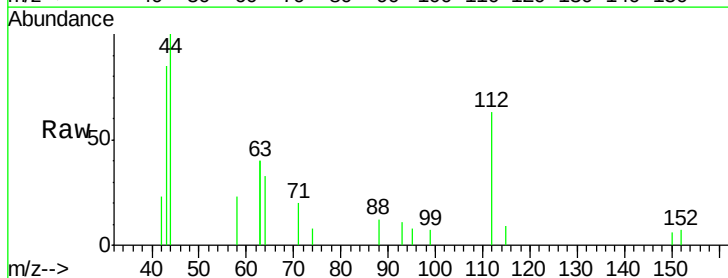
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.128 ng  
RT: 5.96 min Scan# 246  
Delta R.T. 0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.0  | 60.1  | 90.1  |
| 63      | 147.7 | 116.8 | 175.2 |

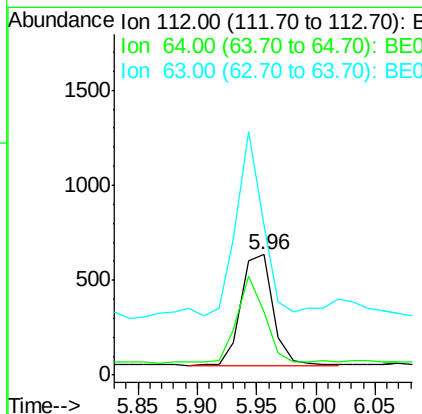
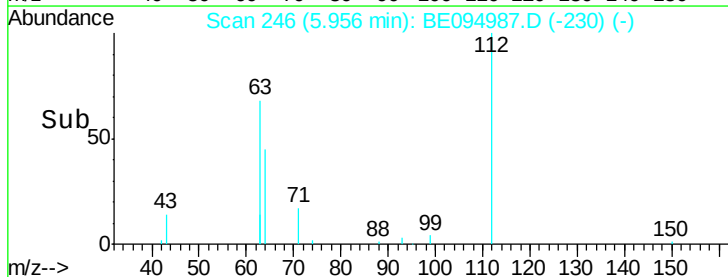


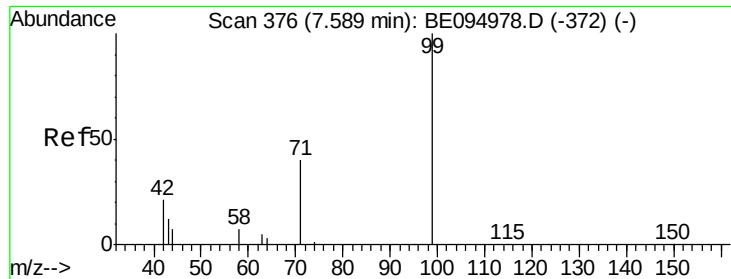
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.074 ng

RT: 7.59 min Scan# 376

Delta R.T. 0.00 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

Instrument :

BNA\_E

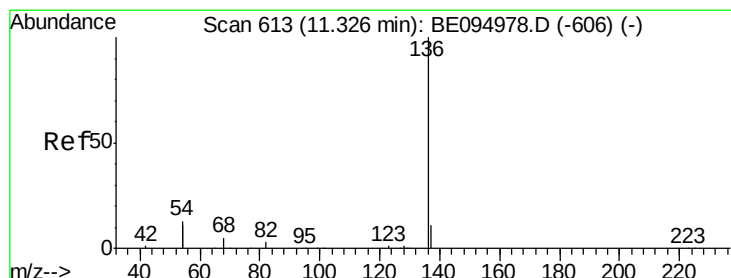
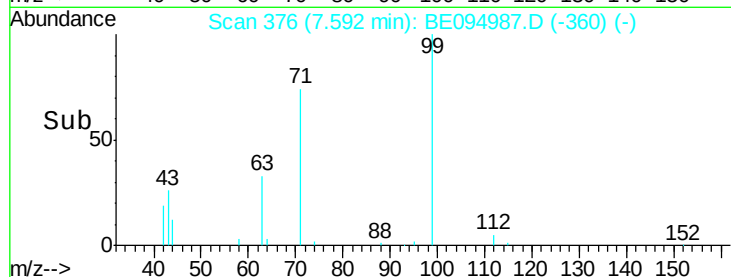
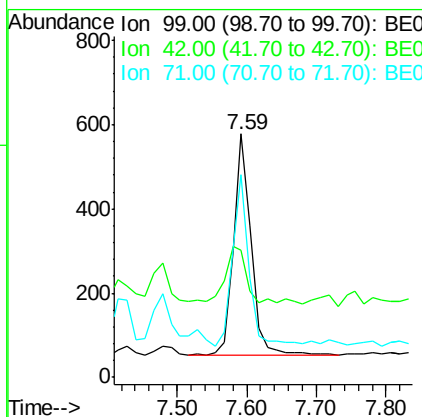
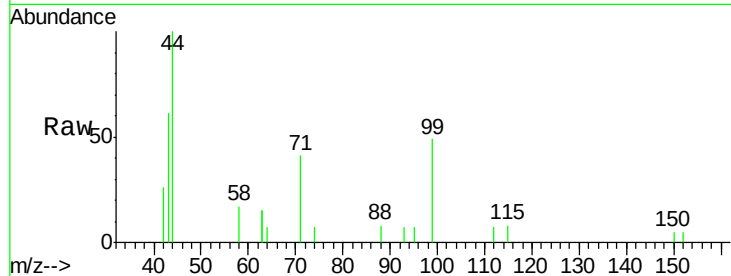
ClientSampleId :

EB-2017-12-07

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 953   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 29.7  | 20.2  | 30.2  |
| 71       | 71.1  | 28.4  | 42.6# |

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#7

Naphthalene-d8

Concen: 0.400 ng

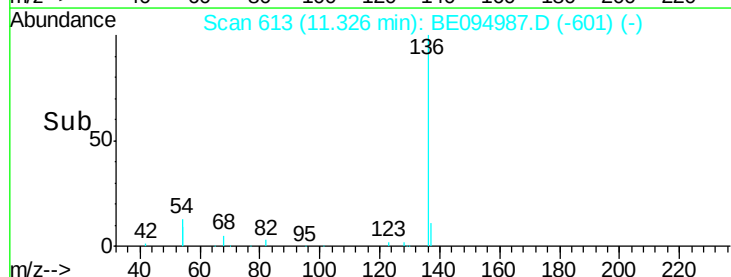
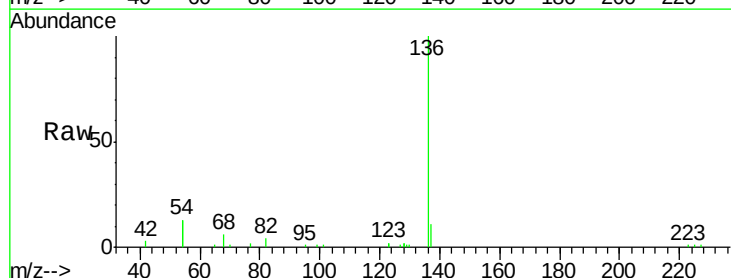
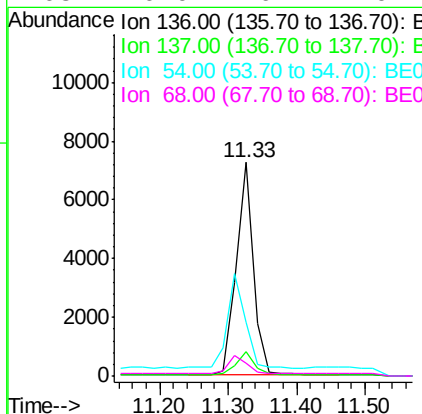
RT: 11.33 min Scan# 613

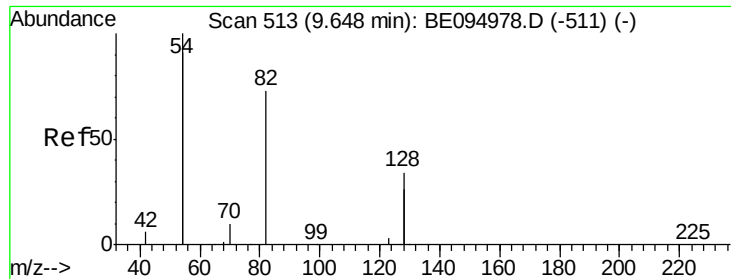
Delta R.T. -0.00 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 12487 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 9.5   | 14.3  |
| 54       | 25.3  | 29.1  | 43.7# |
| 68       | 6.0   | 6.2   | 9.2#  |





#8

Nitrobenzene-d5

Concen: 0.424 ng

RT: 9.65 min Scan# 513

Delta R.T. -0.00 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

Instrument :

BNA\_E

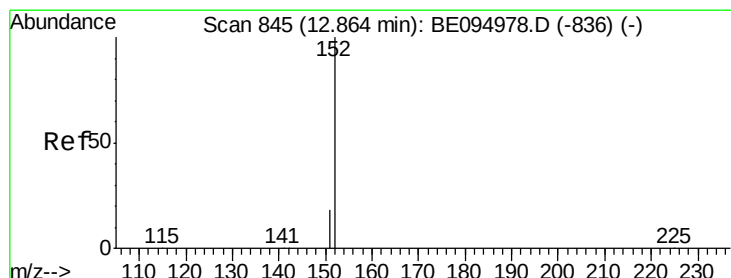
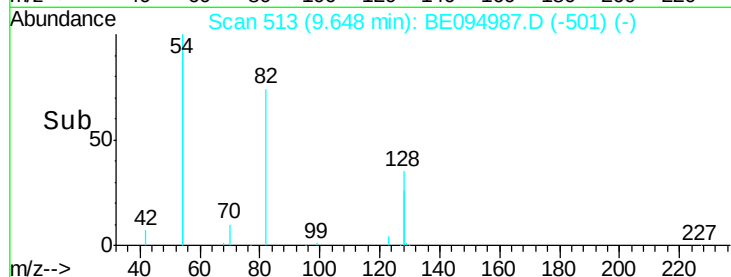
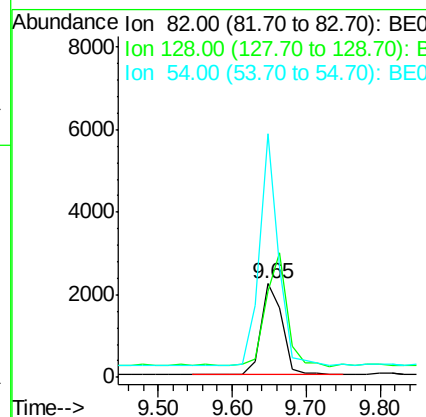
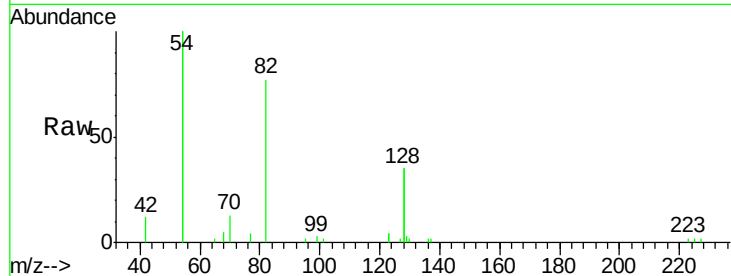
ClientSampleId :

EB-2017-12-07

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 82      | 100   |       |        |
| 128     | 91.7  | 150.0 | 225.0# |
| 54      | 260.9 | 154.2 | 231.4# |

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#11

2-Methylnaphthalene-d10

Concen: 0.331 ng

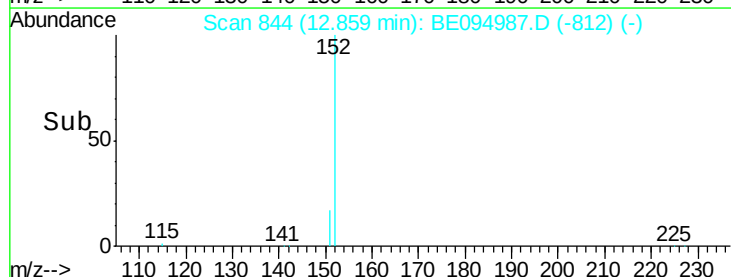
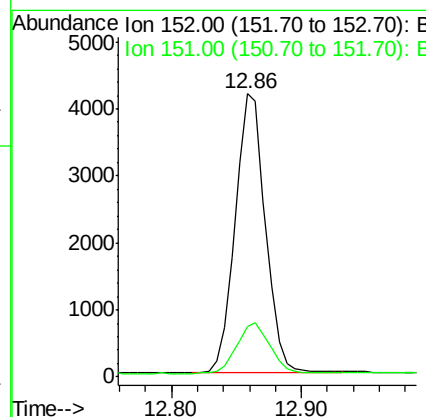
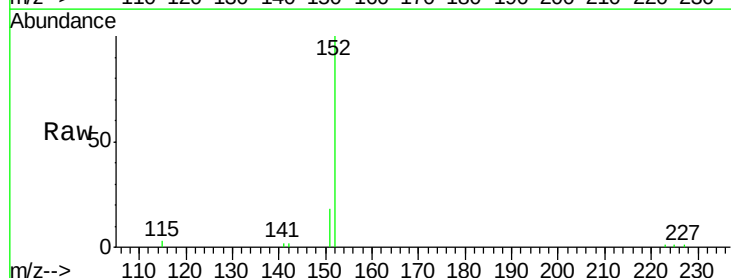
RT: 12.86 min Scan# 844

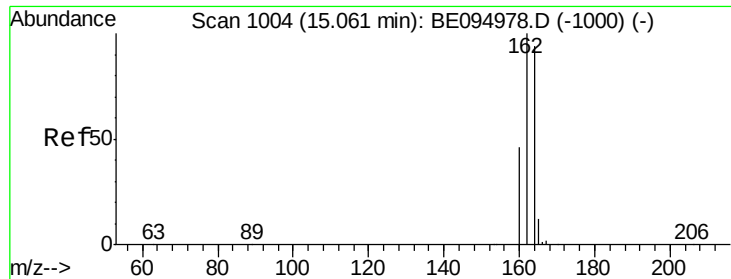
Delta R.T. -0.01 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.4  | 23.0  |





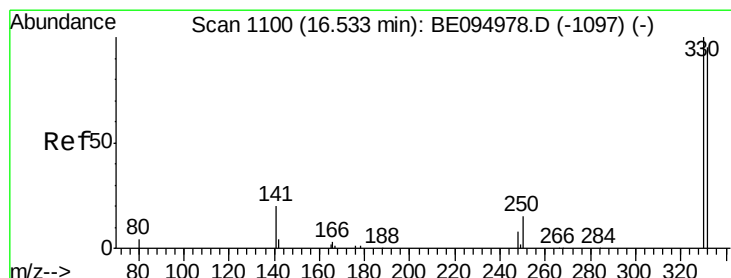
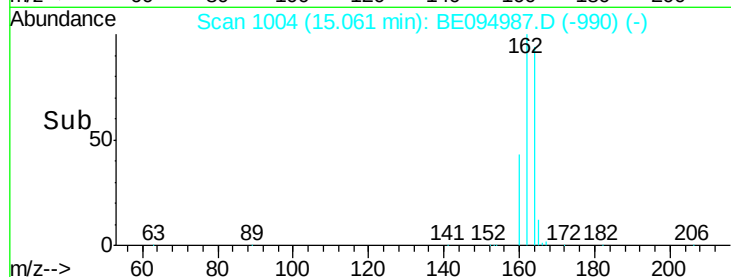
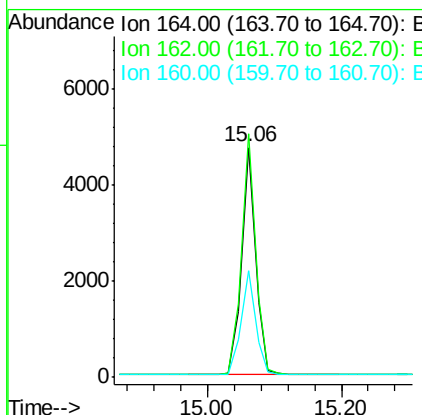
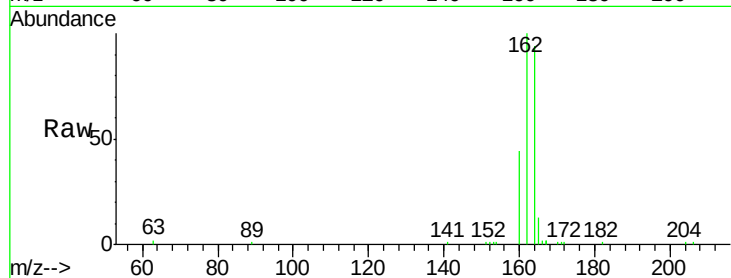
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 15.06 min Scan# 1004  
Delta R.T. 0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

Instrument :  
BNA\_E  
ClientSampleId :  
EB-2017-12-07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.1 | 83.1  | 124.7 |
| 160     | 46.6  | 37.1  | 55.7  |

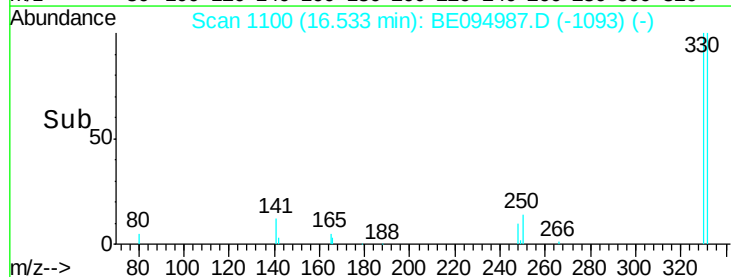
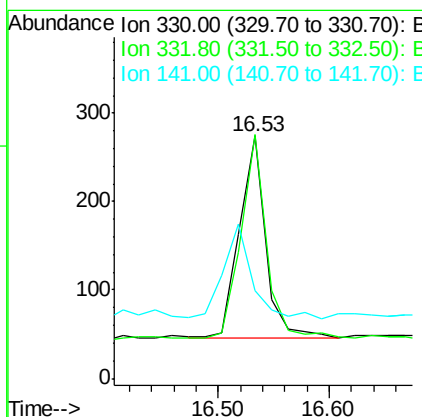
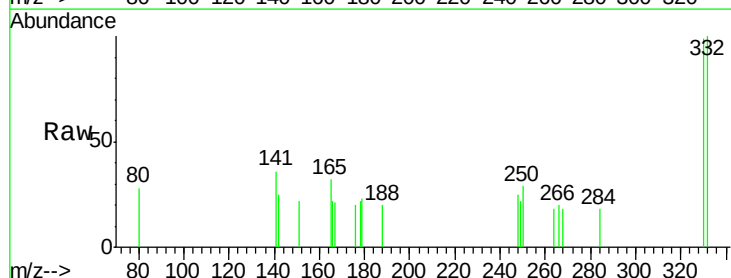
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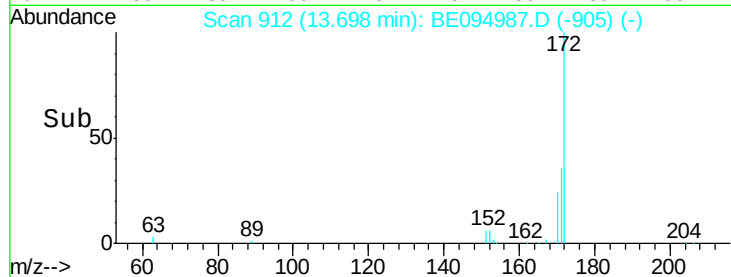
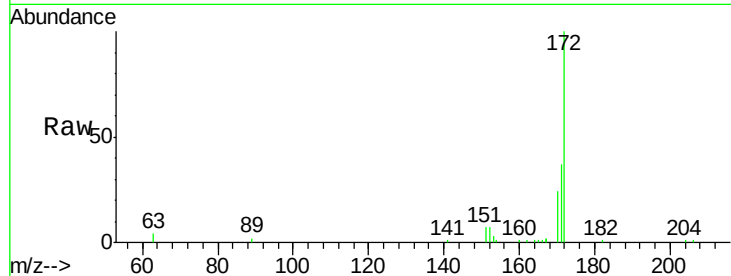
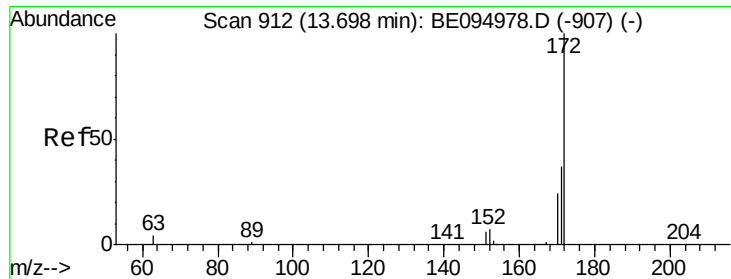
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#14  
2,4,6-Tribromophenol  
Concen: 0.233 ng  
RT: 16.53 min Scan# 1100  
Delta R.T. 0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 97.6  | 152.7 | 229.1# |
| 141     | 52.3  | 33.7  | 50.5#  |





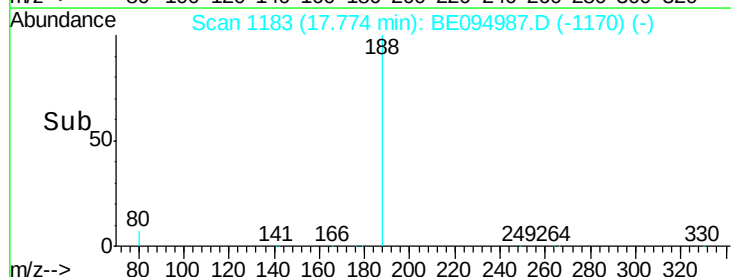
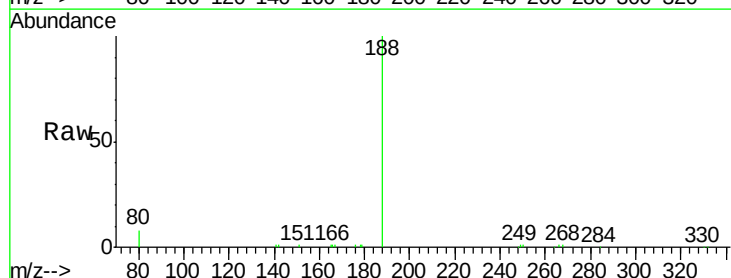
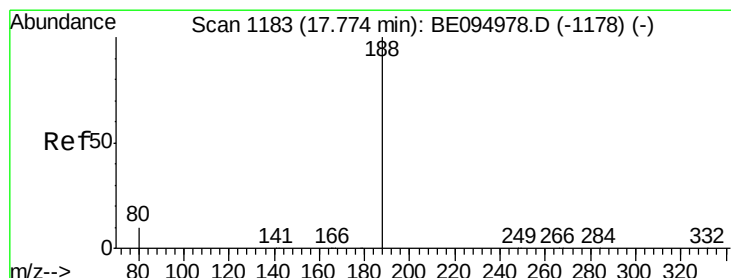
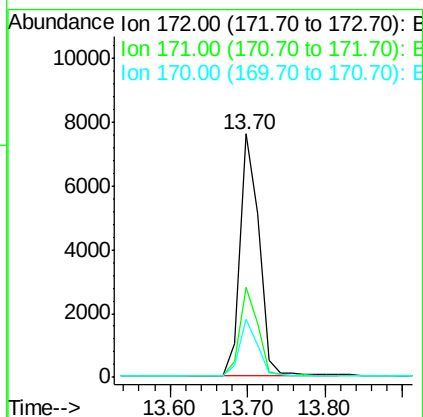
#15  
2-Fluorobiphenyl  
Concen: 0.421 ng  
RT: 13.70 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.9  | 44.9  |
| 170     | 24.1  | 21.8  | 32.8  |

Instrument :  
BNA\_E  
ClientSampled :  
EB-2017-12-07

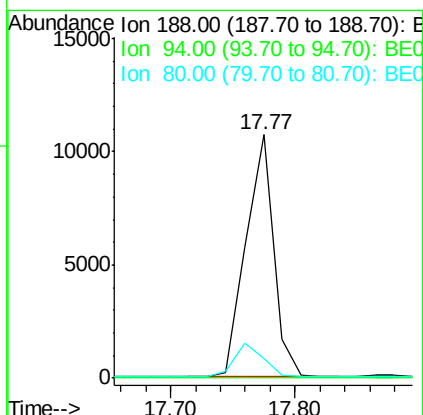
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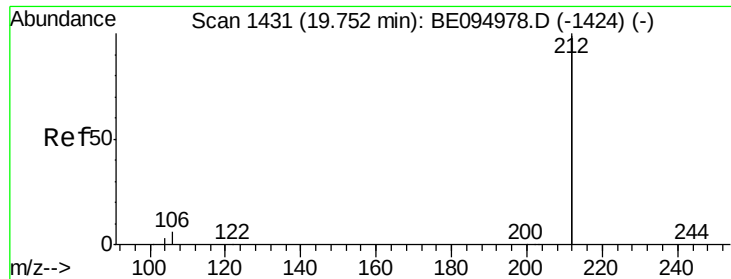
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#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.77 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 3.9   | 5.9#  |
| 80      | 8.2   | 3.6   | 5.4#  |





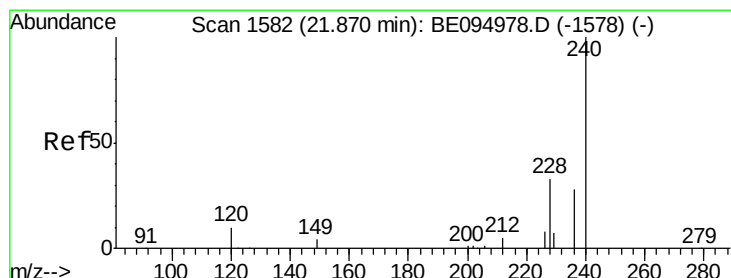
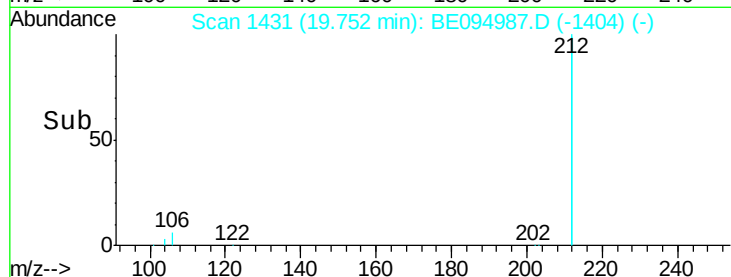
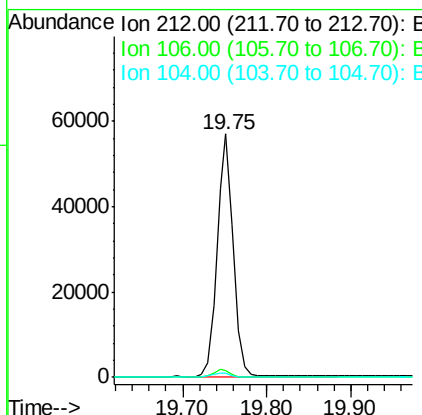
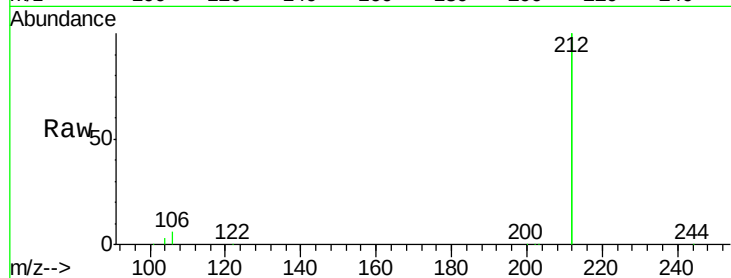
#25  
Fluoranthene-d10  
Concen: 0.355 ng  
RT: 19.75 min Scan# 1431  
Delta R.T. -0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

Instrument :  
BNA\_E  
ClientSampleId :  
EB-2017-12-07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 3.3   | 2.8   | 4.2   |
| 104     | 1.9   | 1.6   | 2.4   |

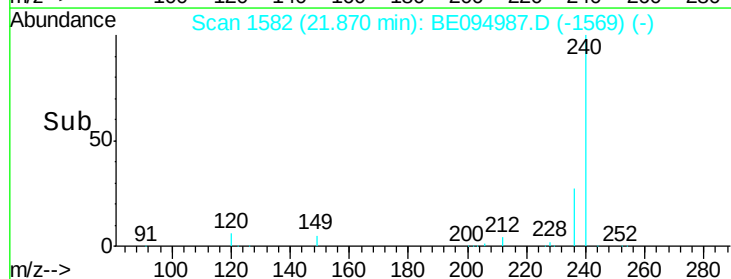
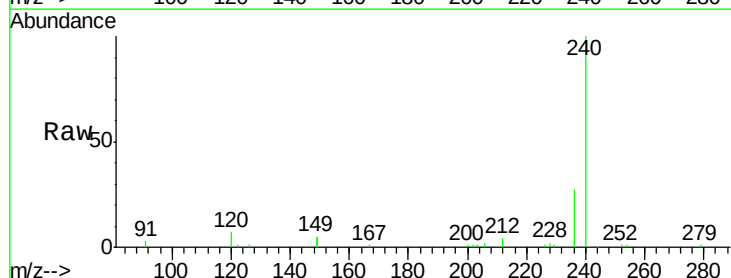
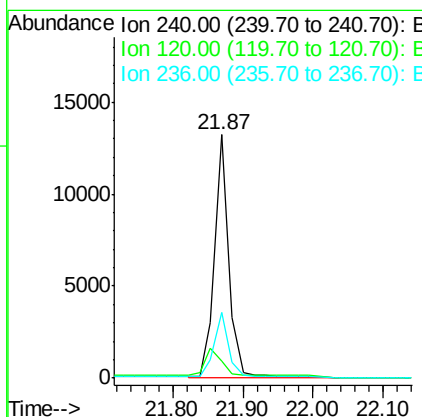
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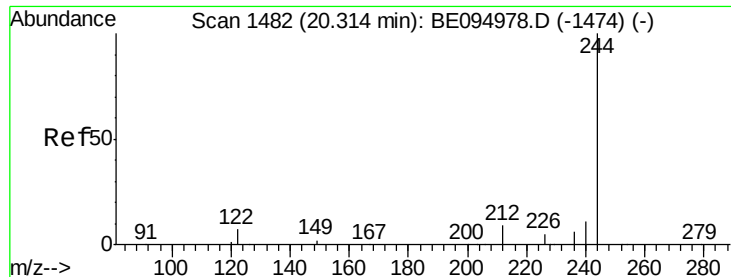


#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.87 min Scan# 1582  
Delta R.T. -0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 6.9   | 5.5   | 8.3   |
| 236     | 27.2  | 20.7  | 31.1  |







#29

Terphenyl-d14

Concen: 0.471 ng

RT: 20.31 min Scan# 1482

Delta R.T. -0.00 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

Instrument :

BNA\_E

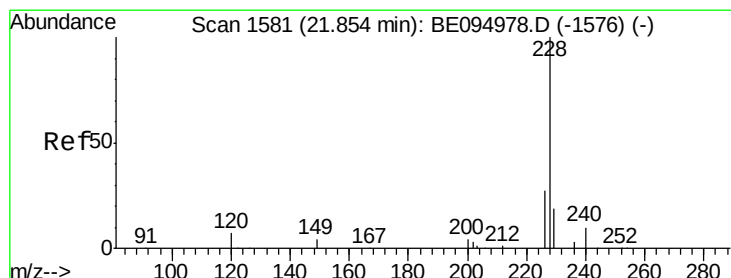
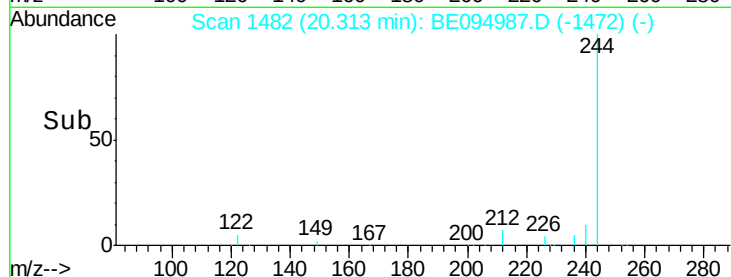
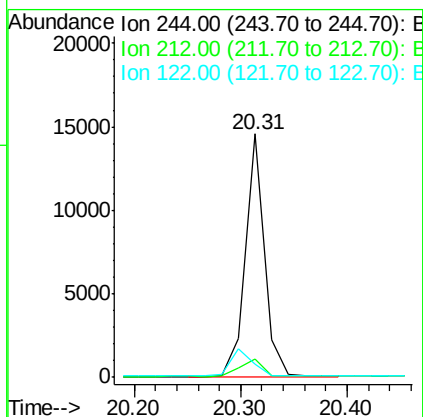
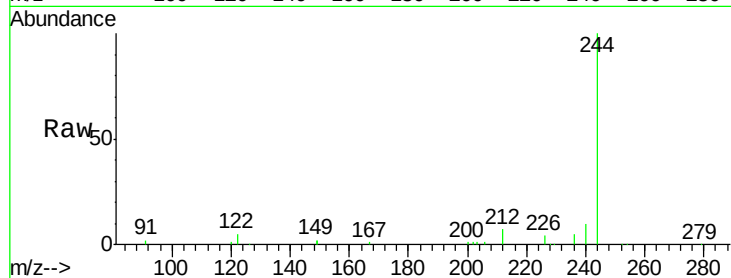
ClientSampleId :

EB-2017-12-07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 17864 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 7.4   | 25.4  | 38.0# |
| 122       | 5.3   | 8.1   | 12.1# |

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#30

Benzo(a)anthracene

Concen: 0.037 ng

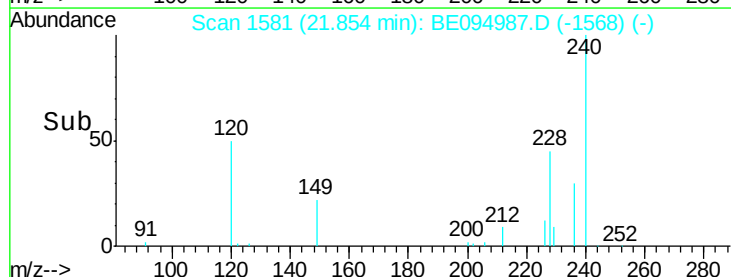
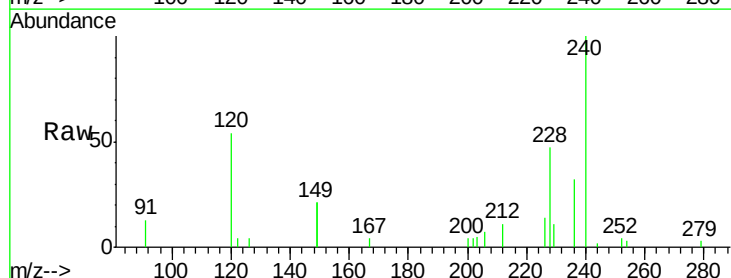
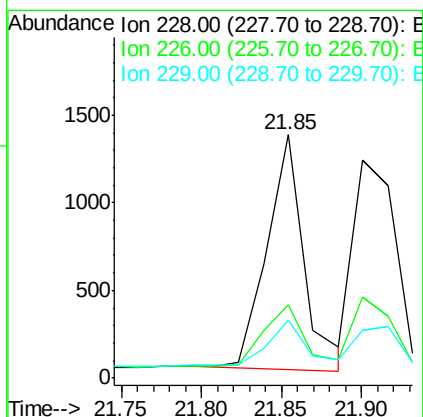
RT: 21.85 min Scan# 1581

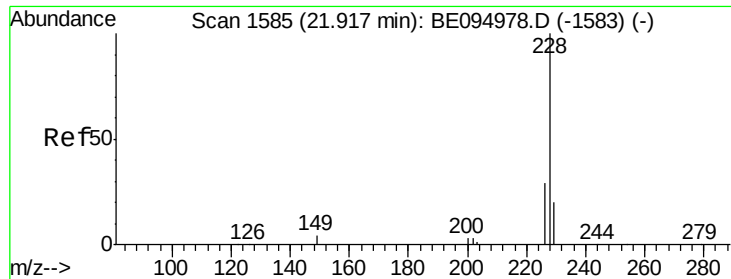
Delta R.T. -0.00 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 2186  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.3  | 40.0  | 60.0# |
| 229       | 24.0  | 40.0  | 60.0# |





#31

Chrysene

Concen: 0.032 ng/mL

RT: 21.90 min Scan# 1584

Delta R.T. -0.02 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

Instrument :

BNA\_E

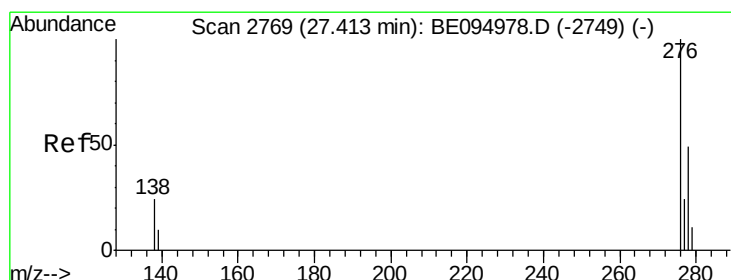
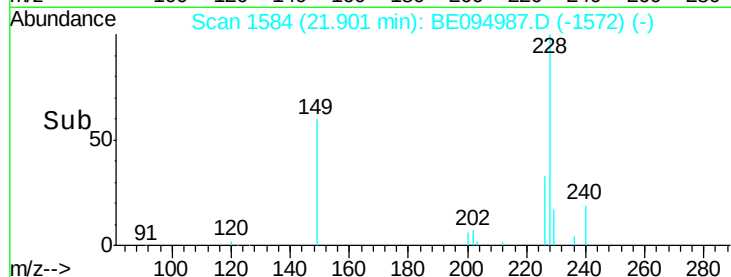
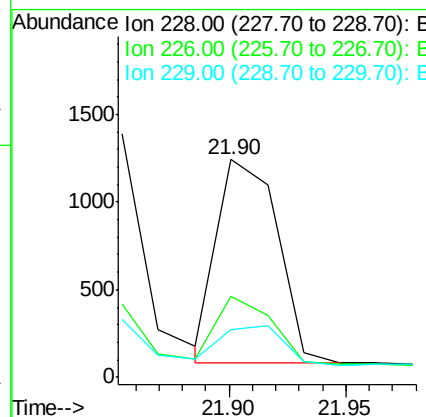
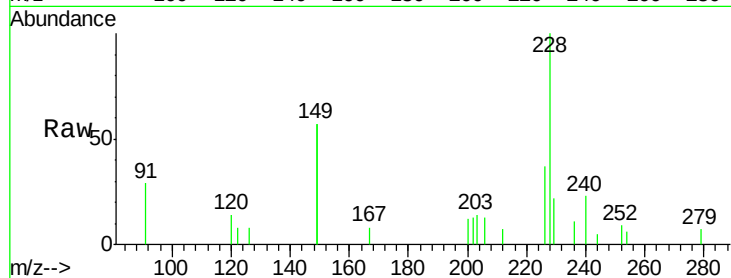
ClientSampleID :

EB-2017-12-07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 2093  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 37.0  | 40.0  | 60.0# |
| 229       | 21.6  | 40.0  | 60.0# |

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#33

Indeno(1,2,3-cd)pyrene

Concen: 0.041 ng/mL

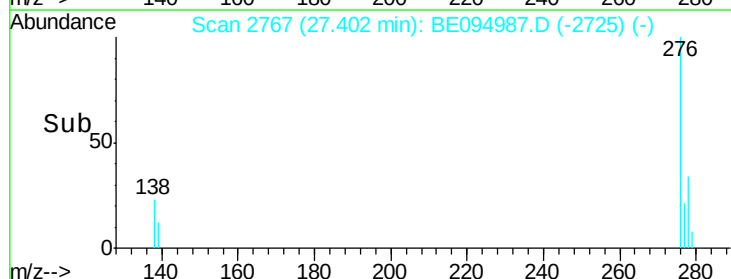
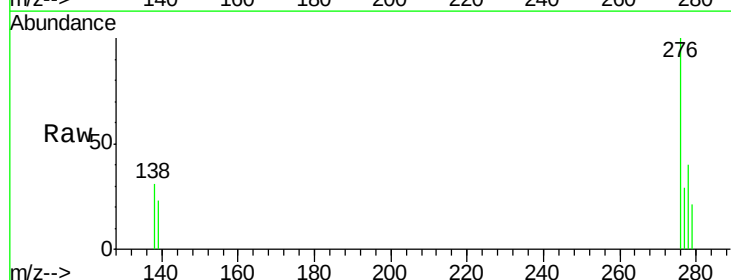
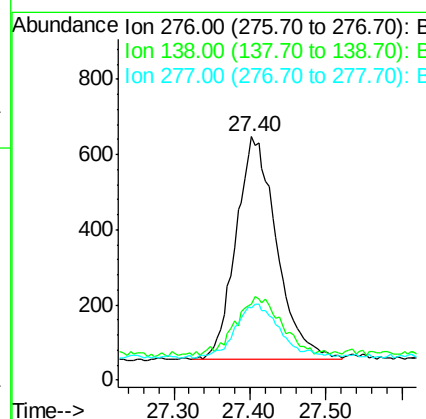
RT: 27.40 min Scan# 2767

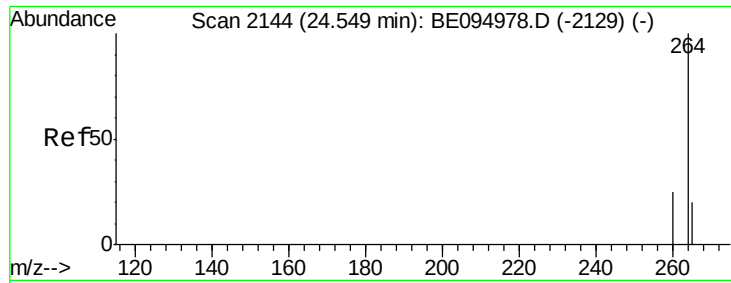
Delta R.T. -0.01 min

Lab File: BE094987.D

Acq: 14 Dec 2017 21:24

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 2214 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 27.9  | 22.5  | 33.7 |
| 277       | 25.0  | 19.9  | 29.9 |





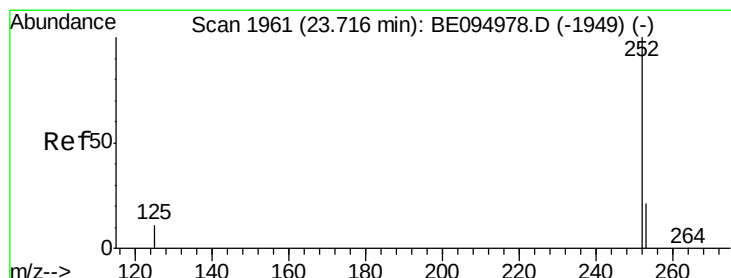
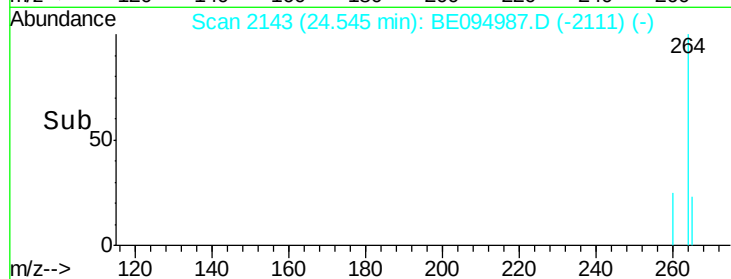
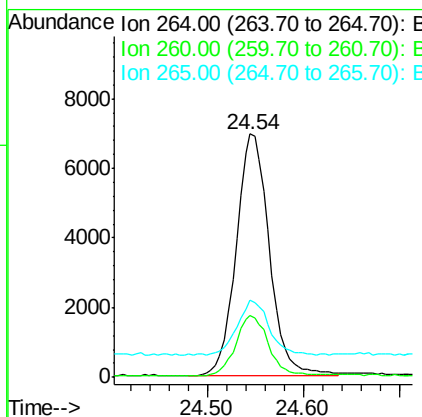
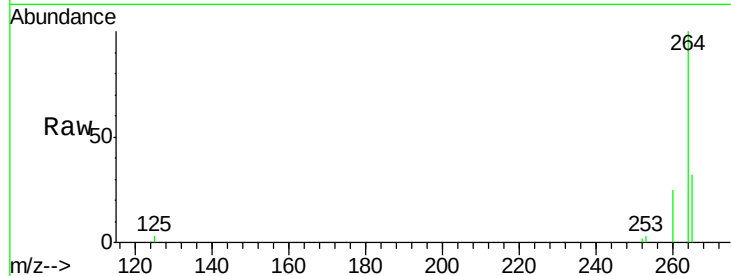
#34  
Pervlene-d12  
Concen: 0.400 ng  
RT: 24.54 min Scan# 2143  
Delta R.T. -0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

Instrument :  
BNA\_E  
ClientSampleId :  
EB-2017-12-07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.4  | 20.5  | 30.7  |
| 265     | 31.8  | 22.8  | 34.2  |

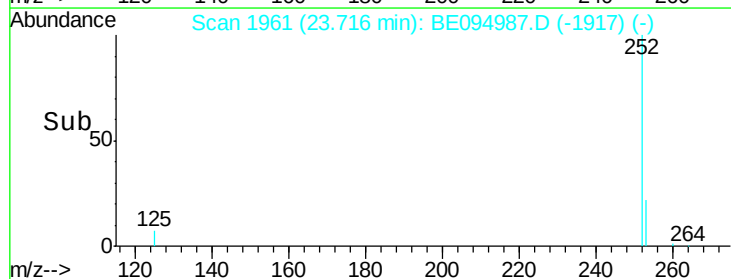
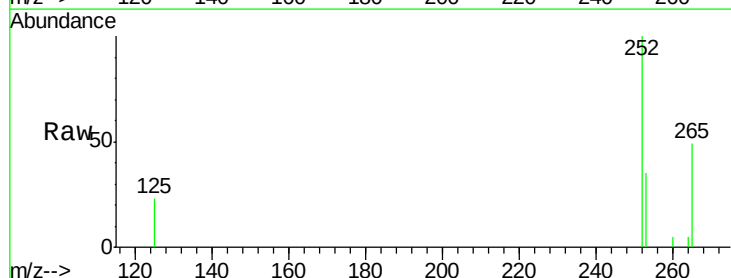
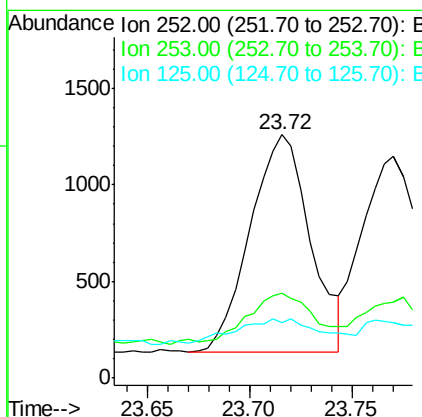
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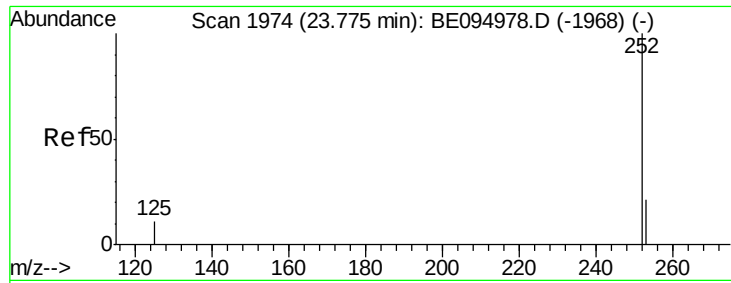
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#35  
Benzo(b)fluoranthene  
Concen: 0.038 ng  
RT: 23.72 min Scan# 1961  
Delta R.T. -0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 34.7  | 20.0  | 30.0# |
| 125     | 22.5  | 16.0  | 24.0  |





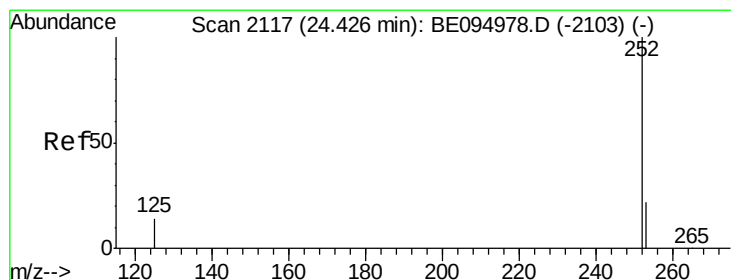
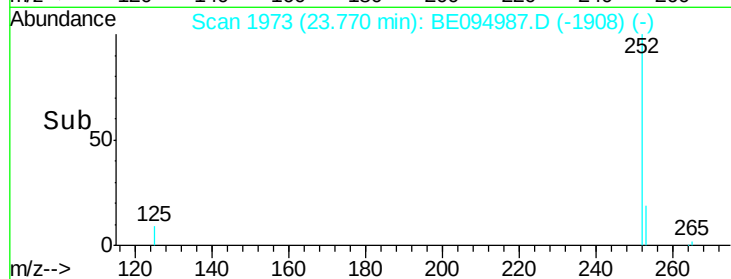
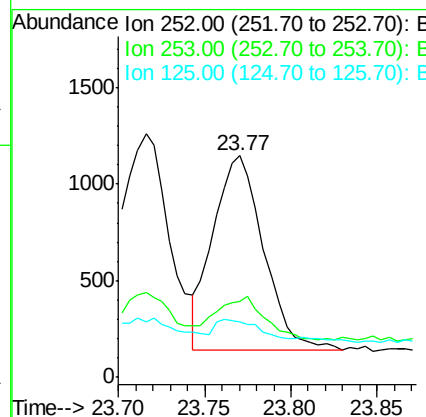
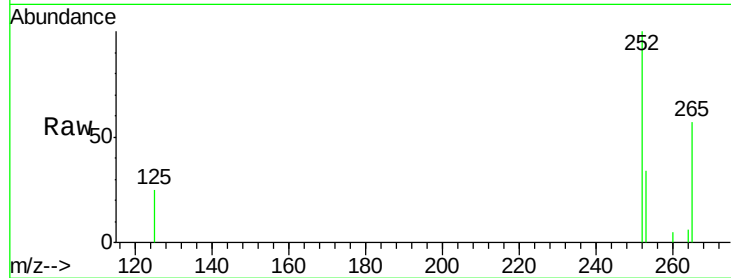
#36  
Benzo(k)fluoranthene  
Concen: 0.034 ng  
RT: 23.77 min Scan# 1973  
Delta R.T. -0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

Instrument :  
BNA\_E  
ClientSampleId :  
EB-2017-12-07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 34.1  | 16.0  | 24.0# |
| 125     | 25.3  | 8.0   | 12.0# |

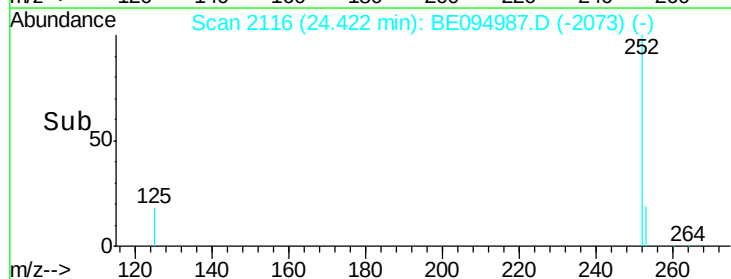
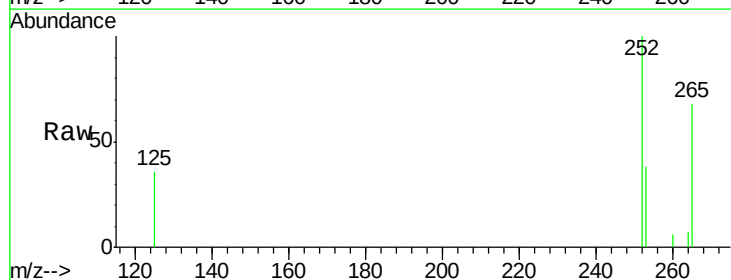
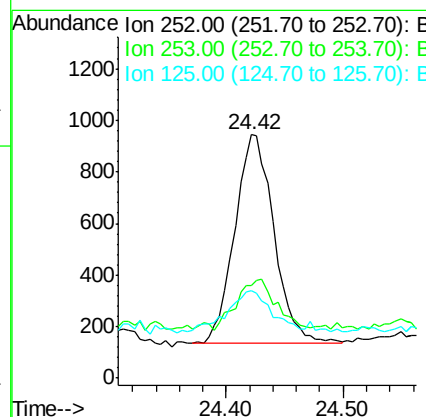
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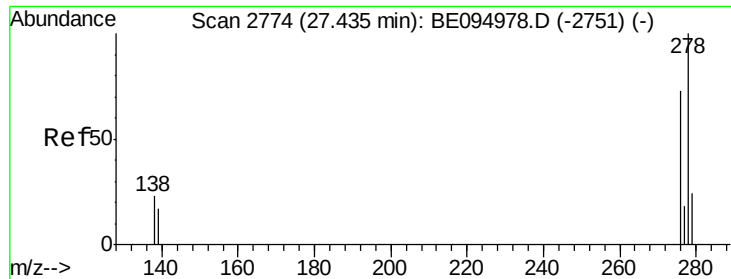
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#37  
Benzo(a)pyrene  
Concen: 0.035 ng  
RT: 24.42 min Scan# 2116  
Delta R.T. -0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 38.0  | 16.0  | 24.0# |
| 125     | 35.8  | 12.0  | 18.0# |





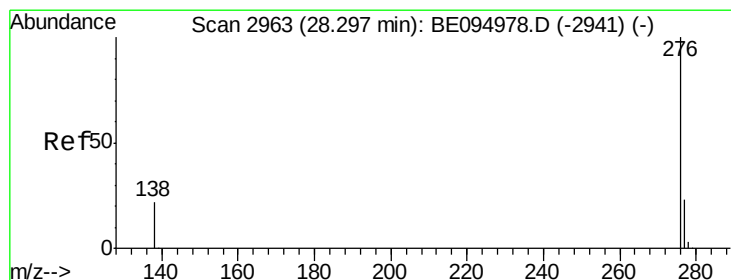
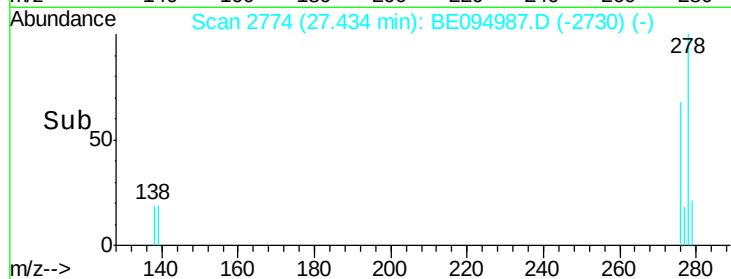
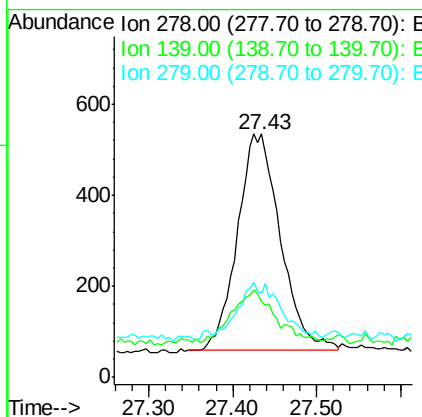
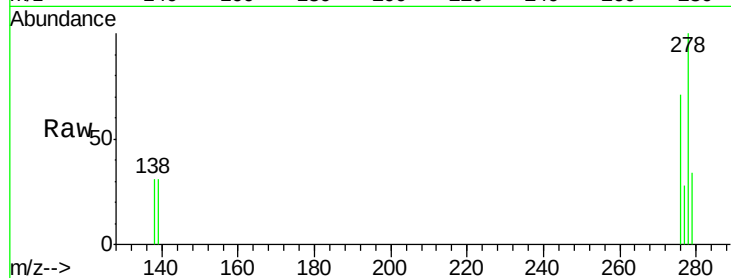
#38  
Dibenzo(a,h)anthracene  
Concen: 0.034 ng  
RT: 27.43 min Scan# 2774  
Delta R.T. -0.00 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

Instrument :  
BNA\_E  
ClientSampleId :  
EB-2017-12-07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 31.2  | 16.0  | 24.0# |
| 279     | 34.4  | 20.0  | 30.0# |

Manual Integrations  
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#39  
Benzo(g,h,i)perylene  
Concen: 0.039 ng  
RT: 28.29 min Scan# 2962  
Delta R.T. -0.01 min  
Lab File: BE094987.D  
Acq: 14 Dec 2017 21:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 31.1  | 16.0  | 24.0# |
| 138     | 30.6  | 20.0  | 30.0# |

