

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE031616\  
 Data File : BE091457.D  
 Acq On : 16 Mar 2016 23:45  
 Operator : UM/SJ  
 Sample : SSTDICC010  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC010

Manual Integrations  
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 3/17/2016 5:22:26 PM

Quant Time: Mar 17 15:38:21 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-BE031616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 17 07:07:36 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 68094    | 5.00  | ng    | 0.00     |
| 4) Naphthalene-d8           | 10.61 | 136  | 325393   | 5.00  | ng    | 0.00     |
| 8) Acenaphthene-d10         | 14.45 | 164  | 192201   | 5.00  | ng    | 0.00     |
| 13) Phenanthrene-d10        | 17.18 | 188  | 442592   | 5.00  | ng    | 0.00     |
| 19) Chrysene-d12            | 21.33 | 240  | 523583   | 5.00  | ng    | 0.00     |
| 25) Perylene-d12            | 23.81 | 264  | 541371   | 5.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) Nitrobenzene-d5          | 8.99  | 82   | 185190   | 12.20 | ng    | 0.00     |
| 9) 2-Fluorobiphenyl         | 13.08 | 172  | 510164   | 10.94 | ng    | 0.00     |
| 21) Terphenyl-d14           | 19.80 | 244  | 808267   | 10.23 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane              | 3.37  | 88   | 78569    | 12.51 | ng    | # 100    |
| 3) n-Nitrosodimethylamine   | 3.66  | 42   | 149916   | 20.65 | ng    | # 100    |
| 6) Naphthalene              | 10.67 | 128  | 805743   | 10.74 | ng    | 99       |
| 7) 2-Methylnaphthalene      | 12.27 | 142  | 542359   | 12.15 | ng    | 96       |
| 10) Acenaphthylene          | 14.16 | 152  | 984840   | 3.45  | ng    | # 100    |
| 11) Acenaphthene            | 14.51 | 154  | 613054   | 10.59 | ng    | # 100    |
| 12) Fluorene                | 15.49 | 166  | 755855   | 10.09 | ng    | # 100    |
| 14) Hexachlorobenzene       | 16.48 | 284  | 202961   | 8.08  | ng    | # 100    |
| 16) Phenanthrene            | 17.22 | 178  | 1274003  | 8.43  | ng    | # 100    |
| 17) Anthracene              | 17.31 | 178  | 1255864  | 5.81  | ng    | # 100    |
| 18) Fluoranthene            | 19.22 | 202  | 1472936  | 6.71  | ng    | # 67     |
| 20) Pyrene                  | 19.59 | 202  | 1595983  | 10.78 | ng    | # 92     |
| 22) Benzo(a)anthracene      | 21.31 | 228  | 1726162  | 9.54  | ng    | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.40 | 276  | 1909725  | 11.91 | ng    | # 100    |
| 26) Benzo(b)fluoranthene    | 23.06 | 252  | 1809717  | 11.44 | ng    | # 94     |
| 27) Benzo(k)fluoranthene    | 23.10 | 252  | 1594688  | 10.92 | ng    | # 94     |
| 28) Benzo(a)pyrene          | 23.69 | 252  | 1636243  | 12.27 | ng    | # 92     |
| 29) Dibenzo(a,h)anthracene  | 26.43 | 278  | 1590390  | 12.42 | ng    | 98       |
| 30) Benzo(g,h,i)perylene    | 27.21 | 276  | 1621715  | 11.83 | ng    | 98       |

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

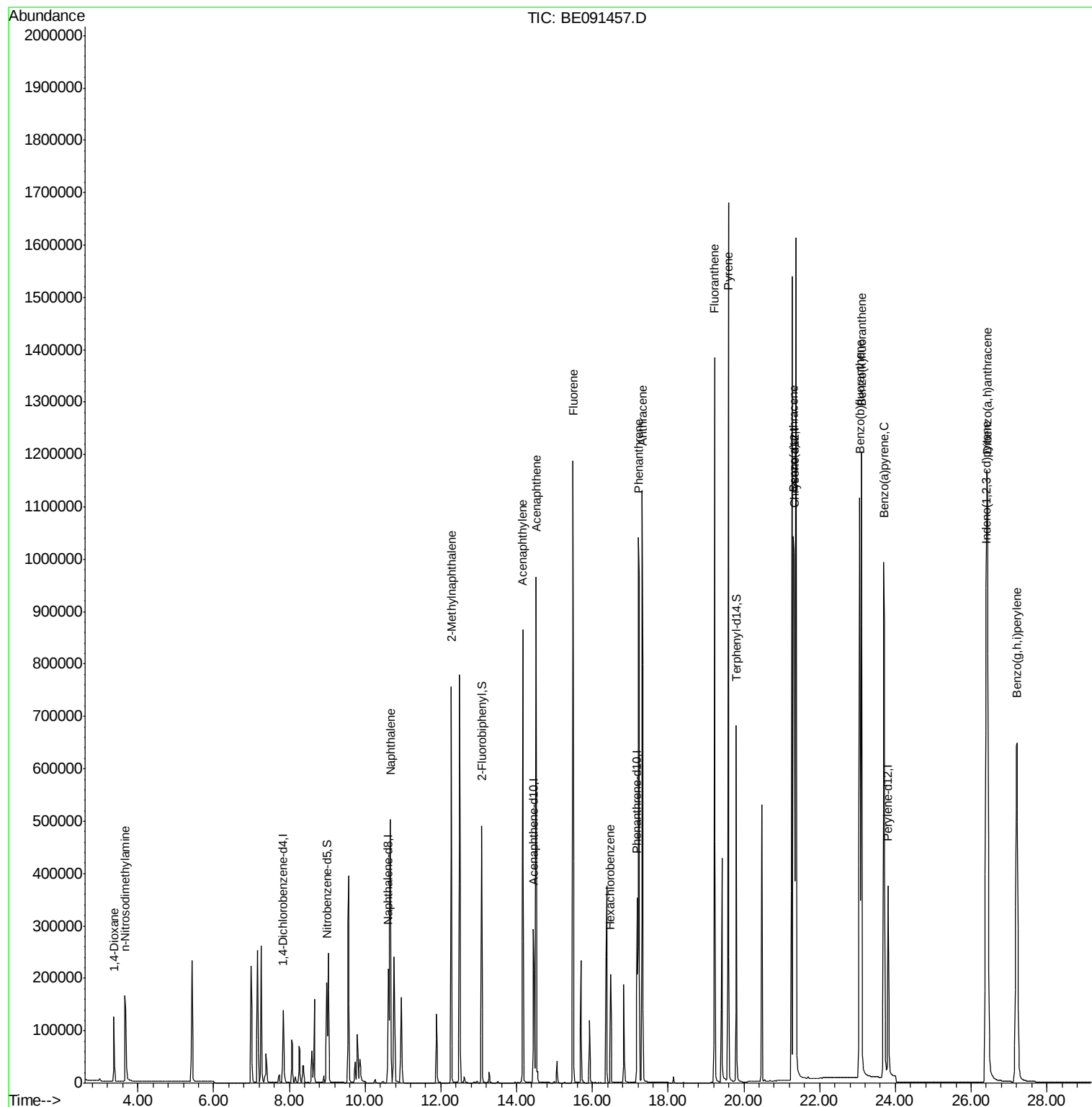
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE031616\  
Data File : BE091457.D  
Acq On : 16 Mar 2016 23:45  
Operator : UM/SJ  
Sample : SSTDICC010  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

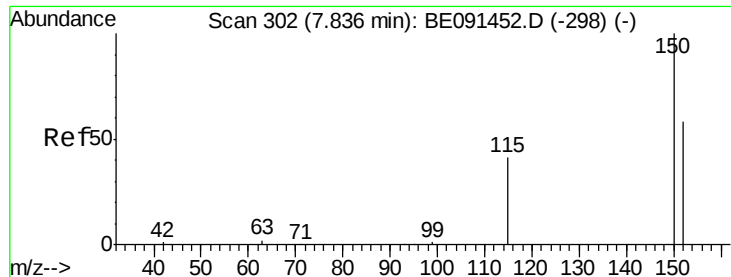
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC010

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3/17/2016 5:22:26 PM

Quant Time: Mar 17 15:38:21 2016  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-BE031616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 17 07:07:36 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091457.D

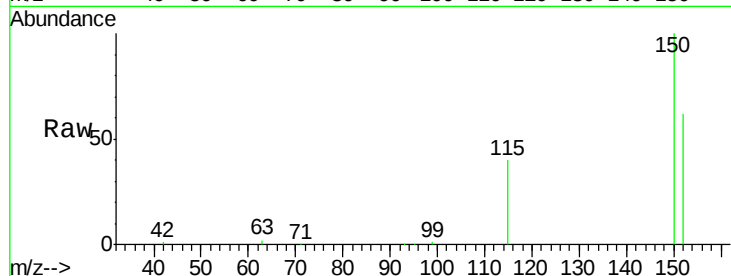
Acq: 16 Mar 2016 23:45

Instrument :

BNA\_E

ClientSampleId :

SSTDIC010



Tgt Ion:152 Resp: 68094

Ion Ratio Lower Upper

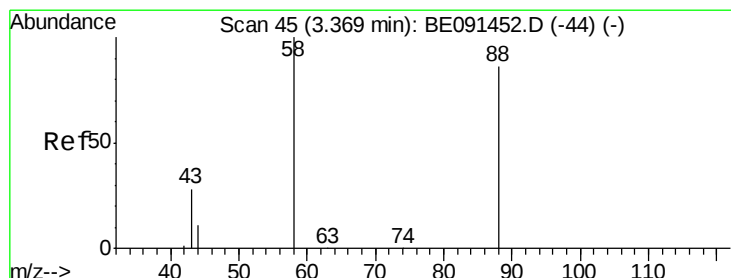
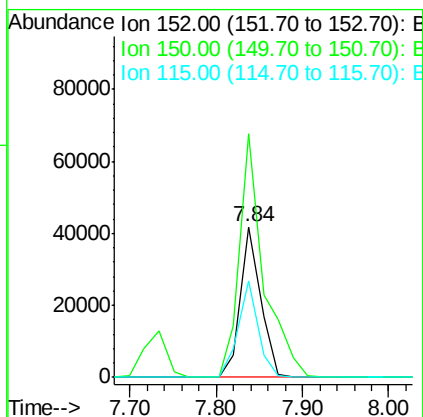
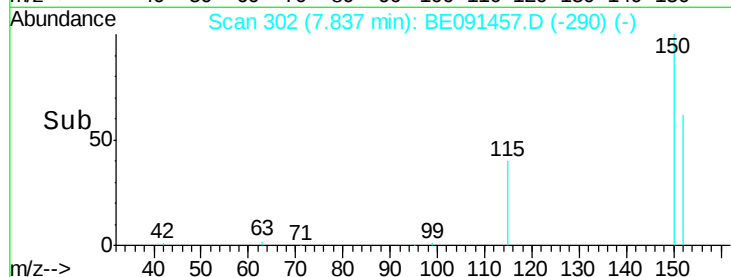
152 100

150 162.1 136.8 205.2

115 64.5 56.9 85.3

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#2

1,4-Dioxane

Concen: 12.51 ng

RT: 3.37 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

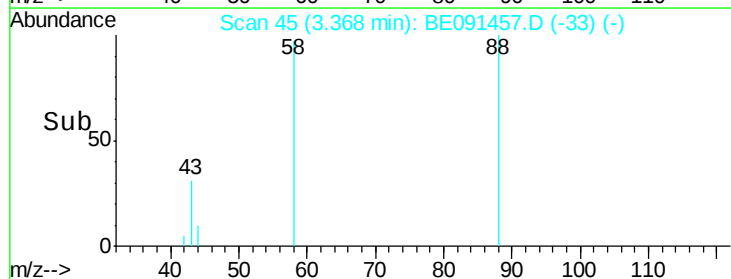
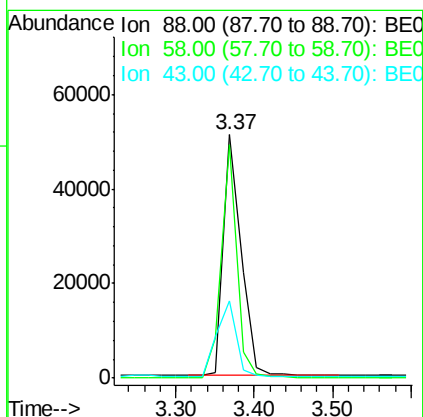
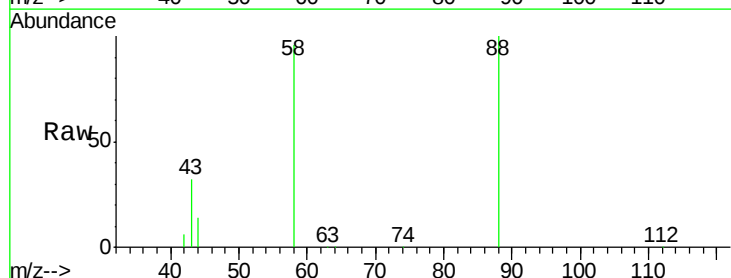
Tgt Ion: 88 Resp: 78569

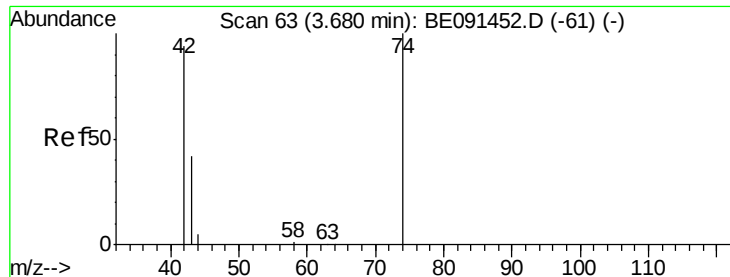
Ion Ratio Lower Upper

88 100

58 84.6 0.0 0.0#

43 34.3 0.0 0.0#





#3

n-Nitrosodimethylamine

Concen: 20.65 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA\_E

ClientSampleId :

SSTDIC010

Tgt Ion: 42 Resp: 149916

Ion Ratio Lower Upper

42 100

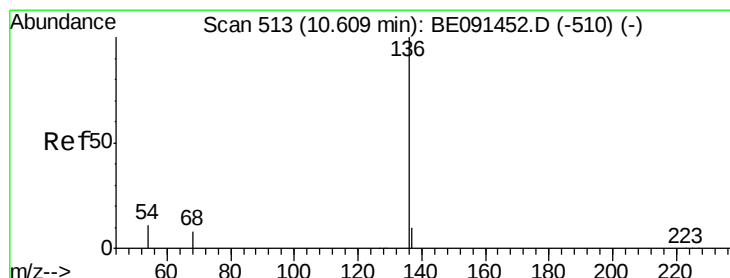
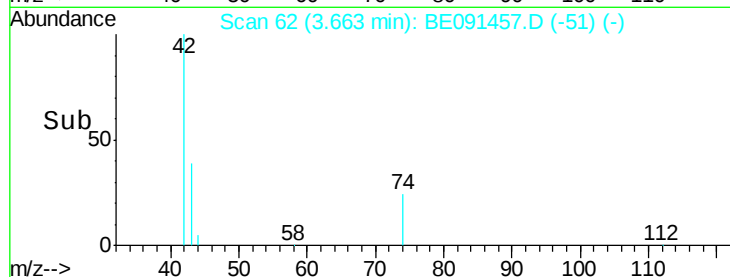
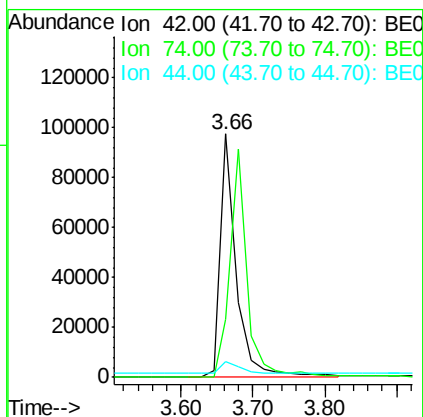
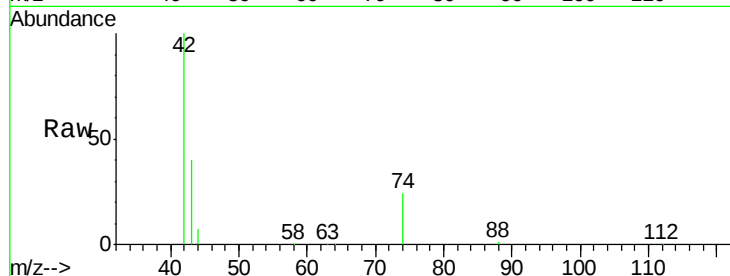
74 99.7 0.0 0.0#

44 6.1 0.0 0.0#

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#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 513

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

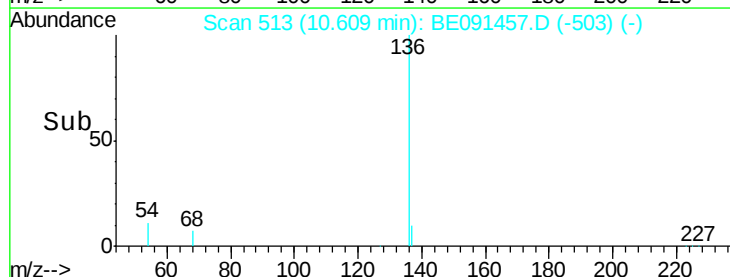
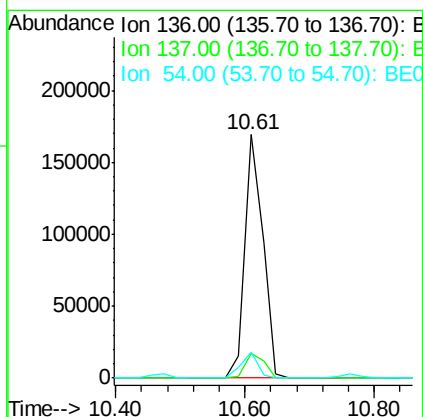
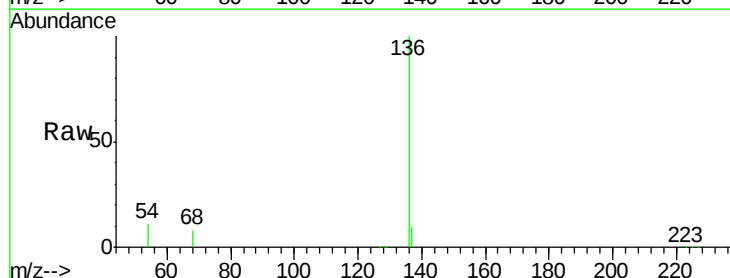
Tgt Ion: 136 Resp: 325393

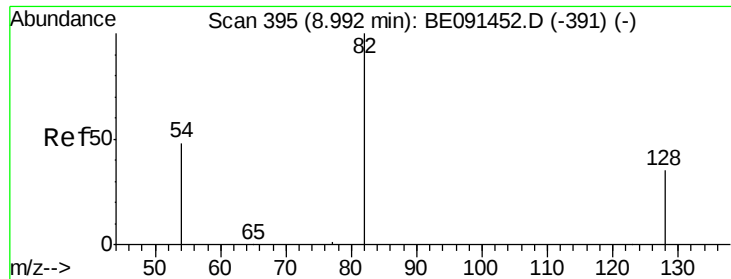
Ion Ratio Lower Upper

136 100

137 10.3 8.0 12.0

54 10.6 9.1 13.7





#5

Nitrobenzene-d5

Concen: 12.20 ng

RT: 8.99 min Scan# 395

Delta R.T. -0.00 min

Lab File: BE091457.D

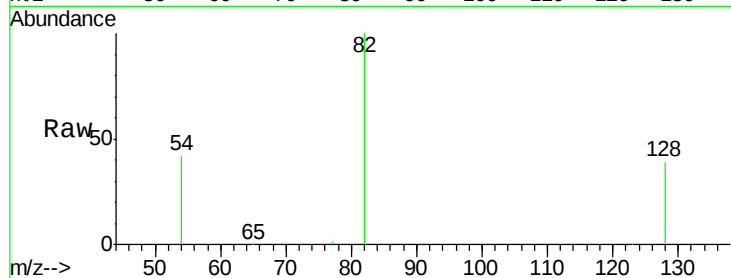
Acq: 16 Mar 2016 23:45

Instrument :

BNA\_E

ClientSampleId :

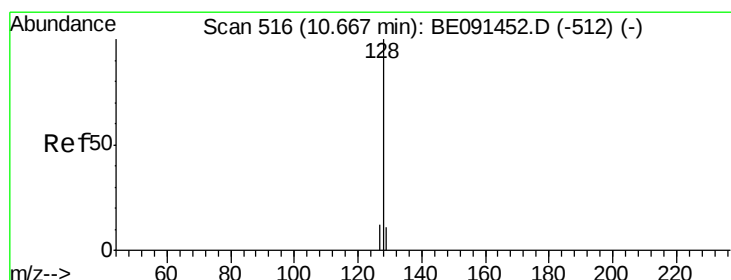
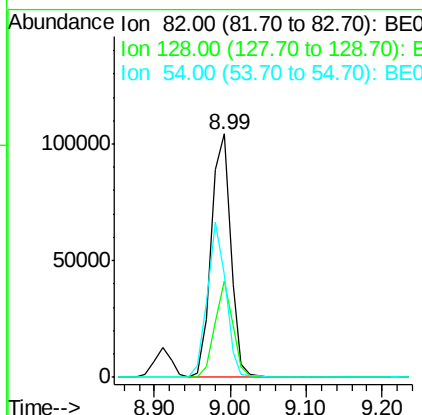
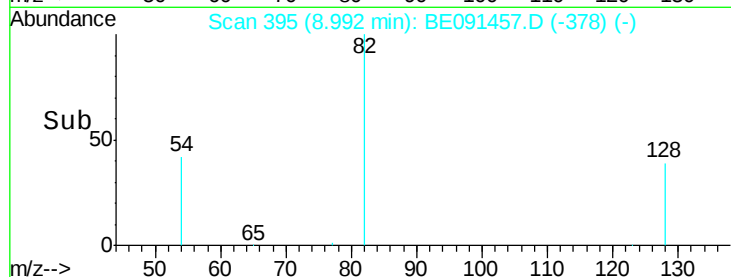
SSTDIC010



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 39.4  | 29.4  | 44.2  |
| 54      | 42.5  | 39.8  | 59.8  |

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#6

Naphthalene

Concen: 10.74 ng

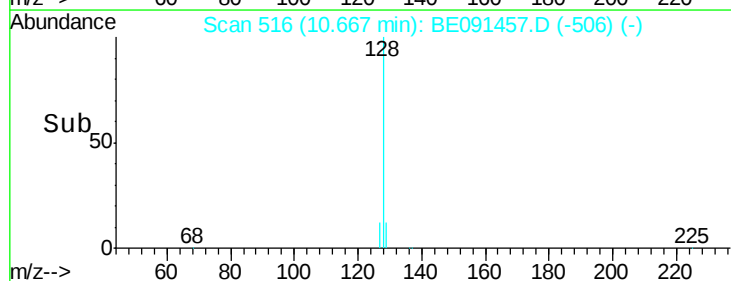
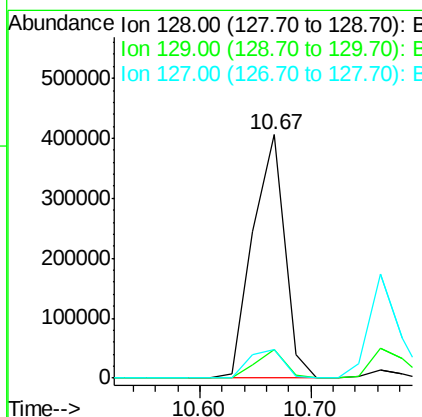
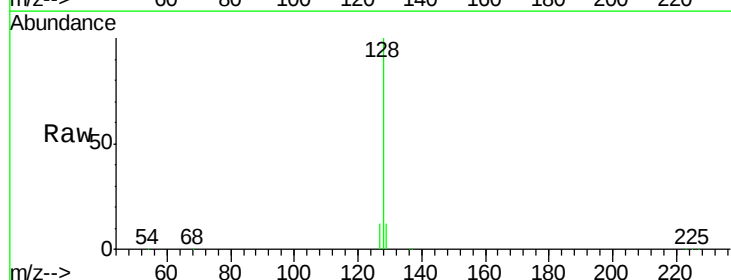
RT: 10.67 min Scan# 516

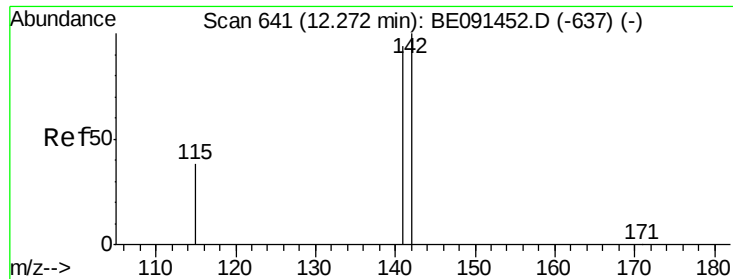
Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.9  | 9.4   | 14.0  |
| 127     | 11.7  | 9.7   | 14.5  |





#7

2-Methylnaphthalene

Concen: 12.15 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091457.D

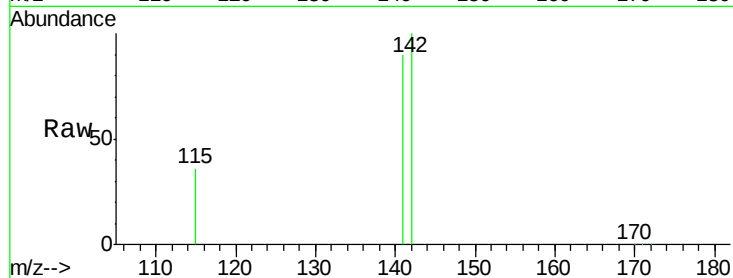
Acq: 16 Mar 2016 23:45

Instrument :

BNA\_E

ClientSampleId :

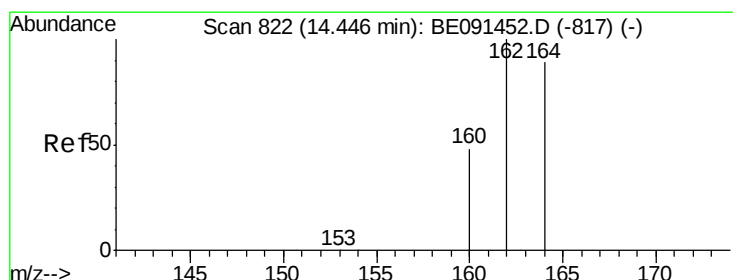
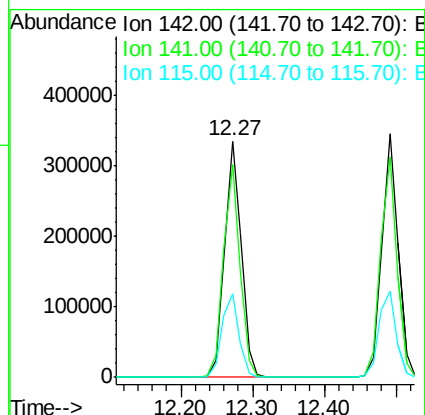
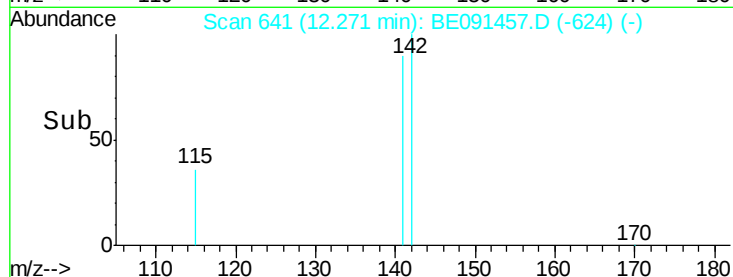
SSTDIC010



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 542359 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 90.2  | 75.0  | 112.4  |
| 115       | 35.7  | 30.8  | 46.2   |

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#8

Acenaphthene-d10

Concen: 5.00 ng

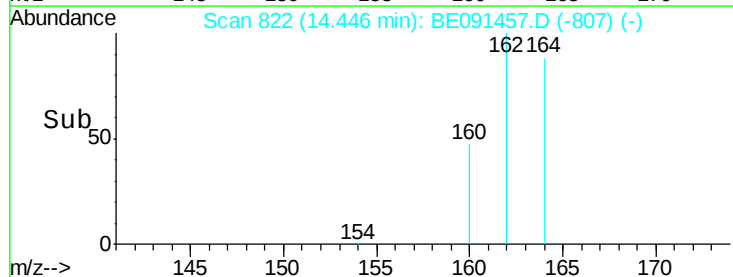
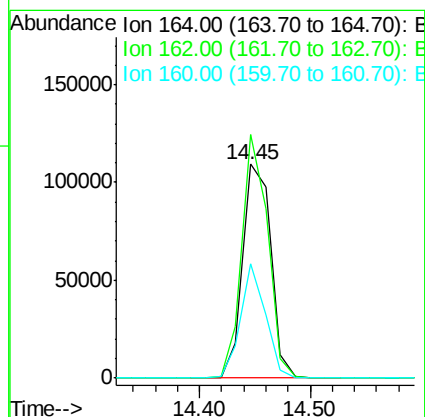
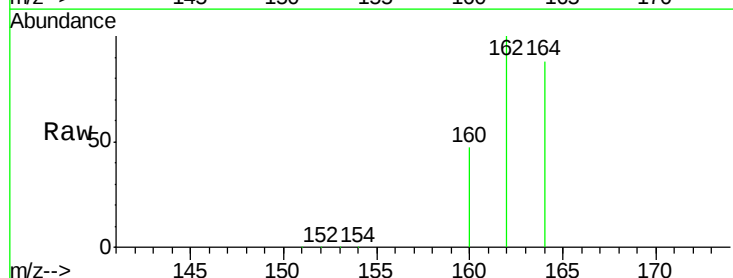
RT: 14.45 min Scan# 822

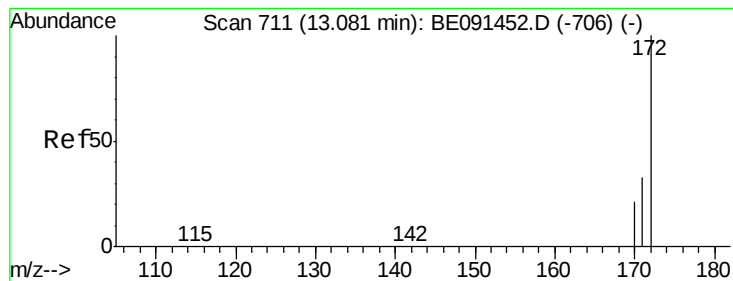
Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 192201 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 113.8 | 89.8  | 134.8  |
| 160       | 53.7  | 43.1  | 64.7   |





#9

2-Fluorobiphenyl

Concen: 10.94 ng

RT: 13.08 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA\_E

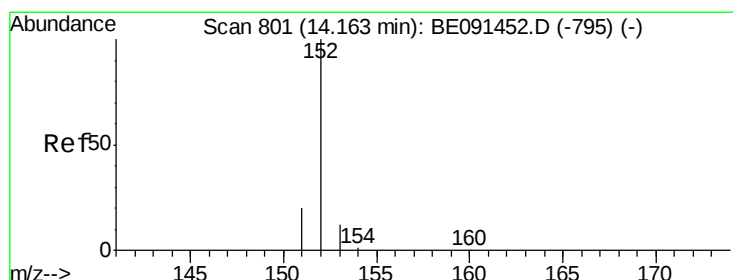
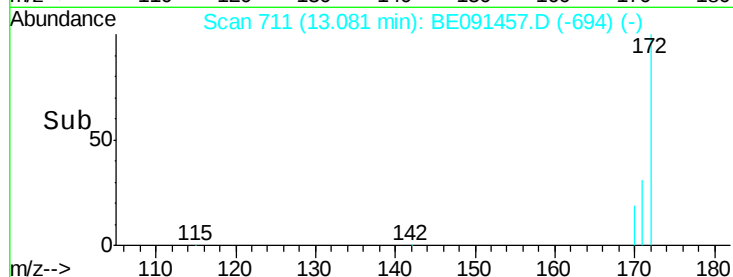
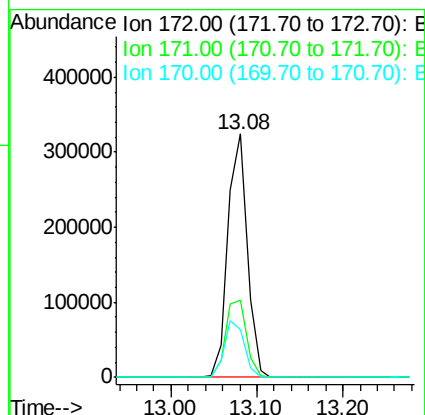
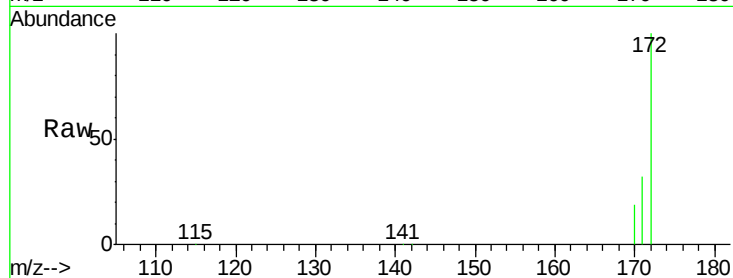
ClientSampleId :

SSTDIC010

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 510164 |       |       |
| 171     | 31.7  | 26.7   | 40.1  |       |
| 170     | 19.4  | 17.4   | 26.2  |       |

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#10

Acenaphthylene

Concen: 3.45 ng

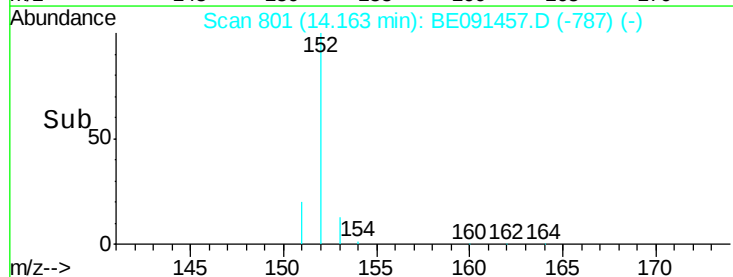
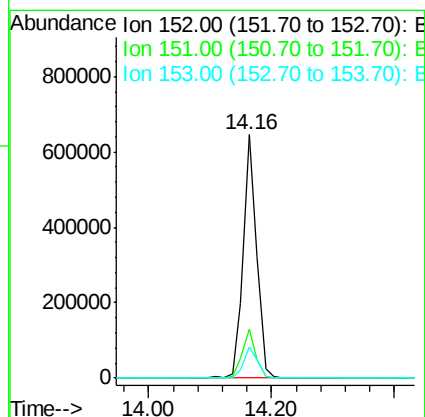
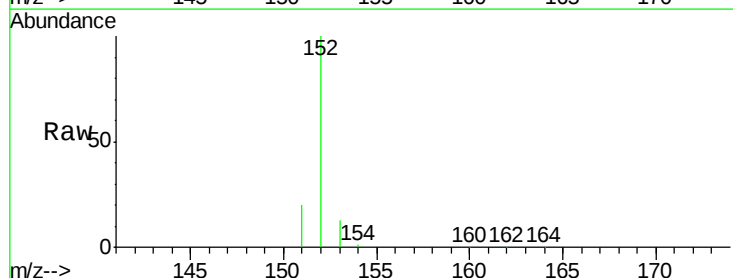
RT: 14.16 min Scan# 801

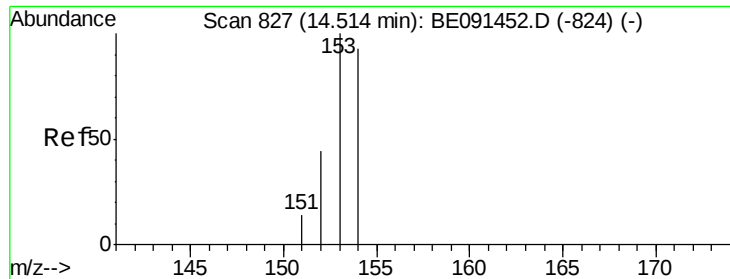
Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 984840 |       |       |
| 151     | 19.8  | 0.0    | 0.0#  |       |
| 153     | 13.3  | 0.0    | 0.0#  |       |





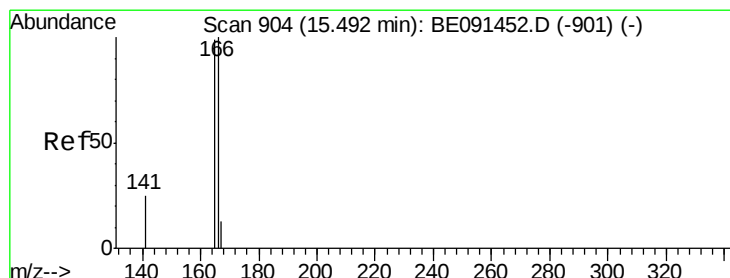
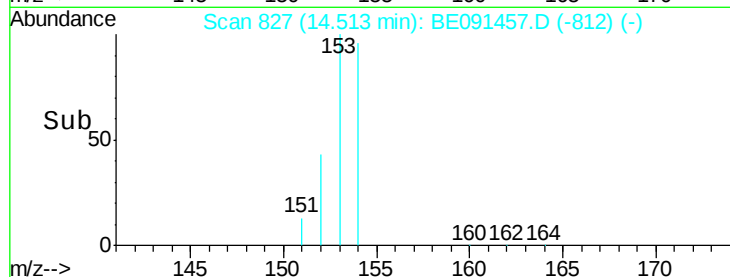
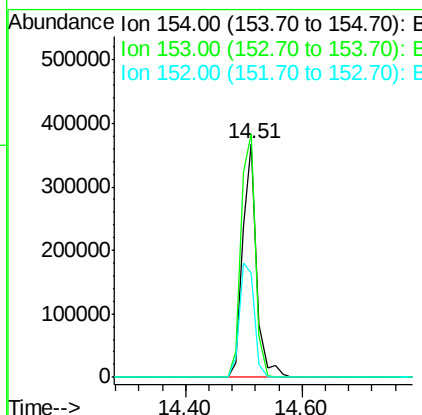
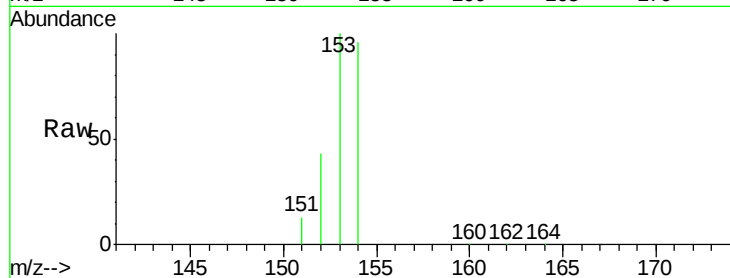
#11  
Acenaphthene  
Concen: 10.59 ng  
RT: 14.51 min Scan# 827  
Delta R.T. -0.00 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDIC010

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 154     | 100   |            |            |
| 153     | 107.8 | 0.0        | 0.0#       |
| 152     | 52.6  | 0.0        | 0.0#       |

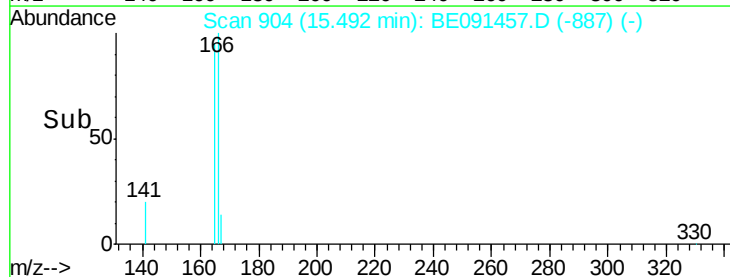
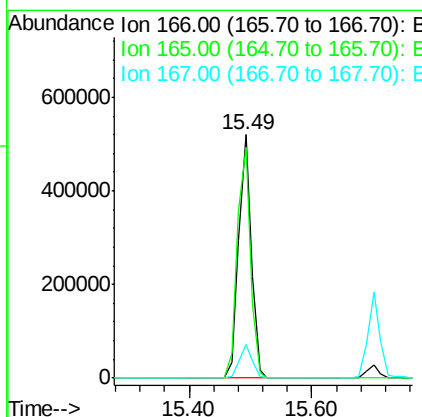
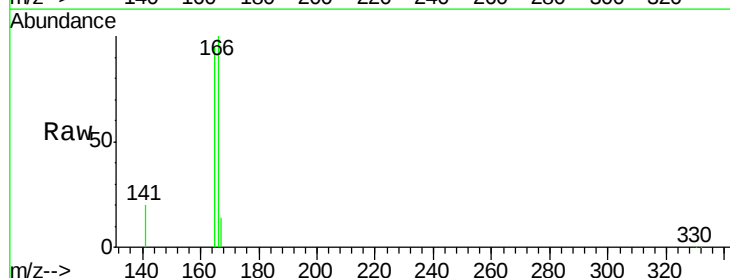
Manual Integrations  
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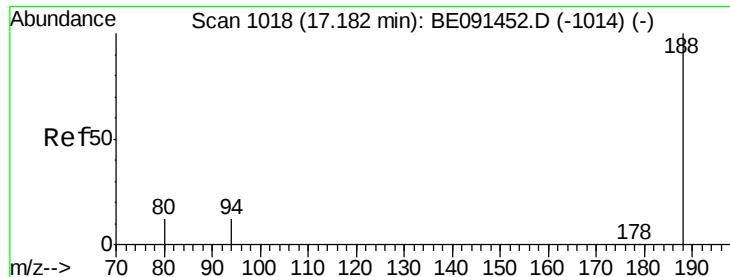
Sohil  
3/17/2016 5:22:26 PM



#12  
Fluorene  
Concen: 10.09 ng  
RT: 15.49 min Scan# 904  
Delta R.T. 0.00 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 166     | 100   |            |            |
| 165     | 99.2  | 0.0        | 0.0#       |
| 167     | 13.7  | 0.0        | 0.0#       |





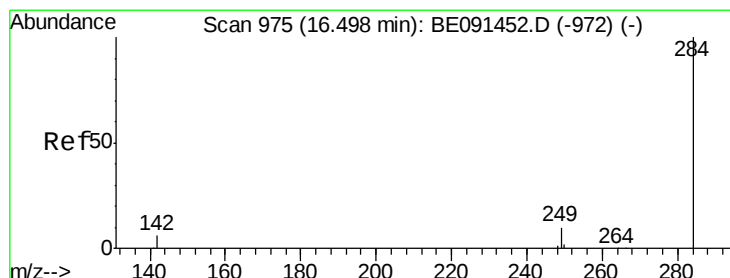
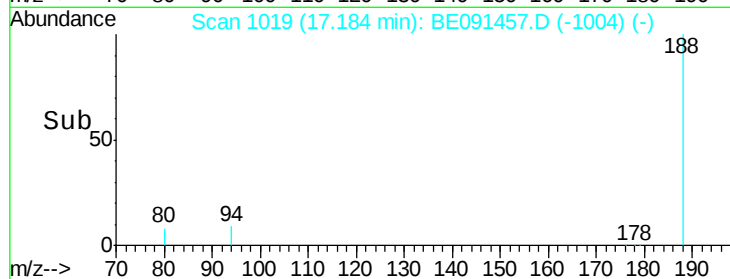
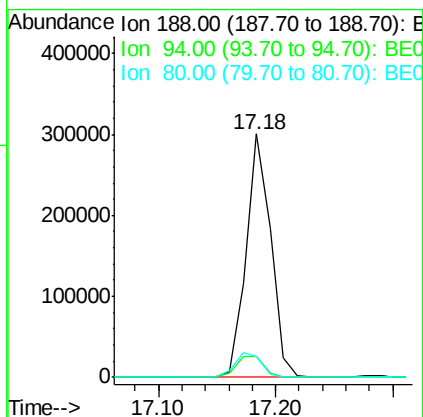
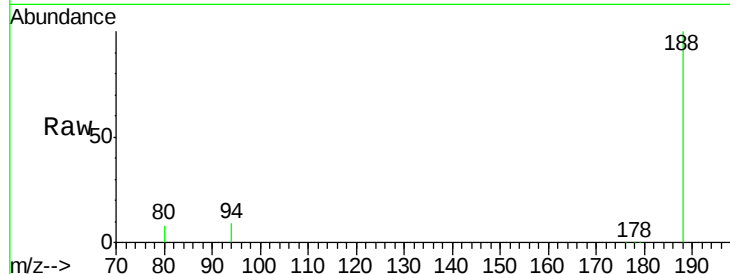
#13  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.18 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC010

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 8.7   | 9.5        | 14.3#      |
| 80      | 8.4   | 9.8        | 14.8#      |

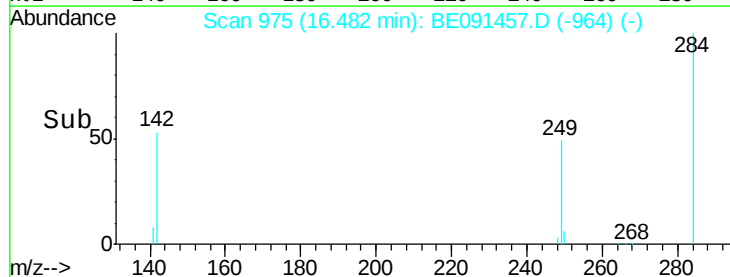
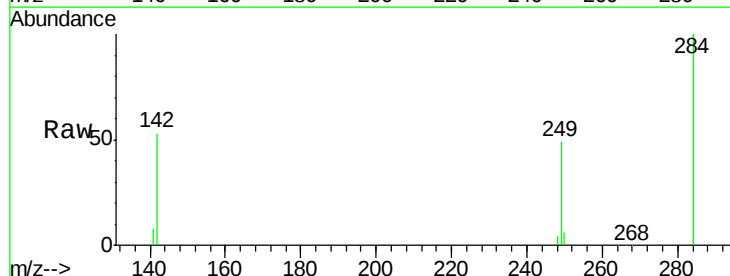
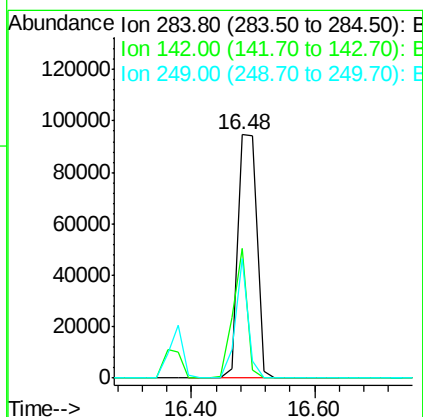
Manual Integrations  
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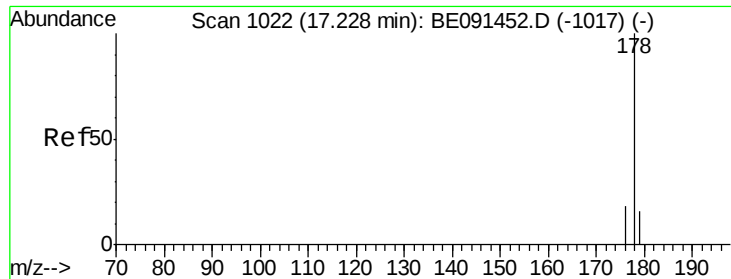
Sohil  
3/17/2016 5:22:26 PM



#14  
Hexachlorobenzene  
Concen: 8.08 ng  
RT: 16.48 min Scan# 975  
Delta R.T. -0.02 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 284     | 100   |            |            |
| 142     | 39.5  | 0.0        | 0.0#       |
| 249     | 32.6  | 0.0        | 0.0#       |





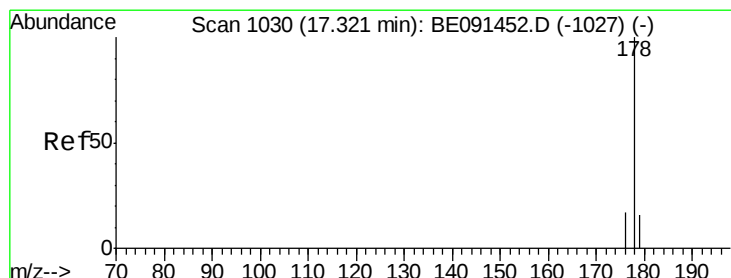
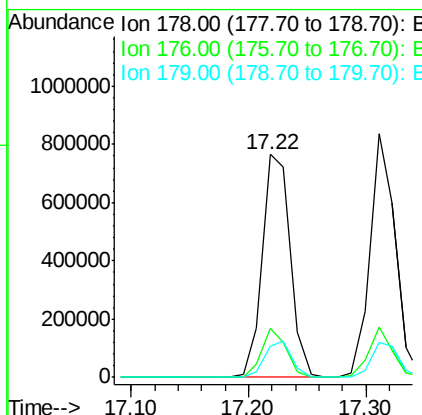
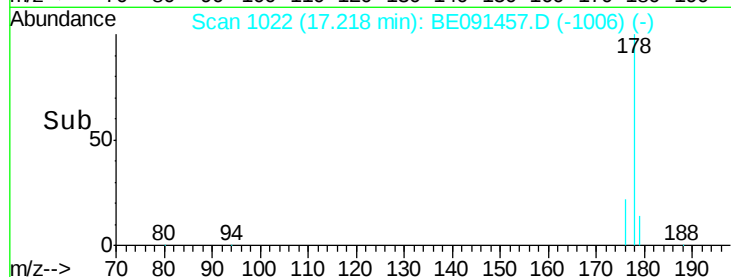
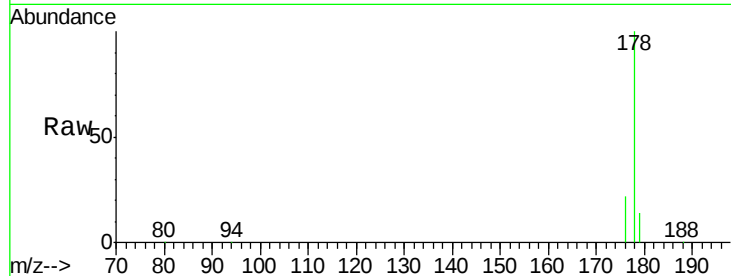
#16  
Phenanthrene  
Concen: 8.43 ng  
RT: 17.22 min Scan# 1022  
Delta R.T. -0.01 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC010

Tgt Ion:178 Resp: 1274003  
Ion Ratio Lower Upper  
178 100  
176 19.7 0.0 0.0#  
179 15.7 0.0 0.0#

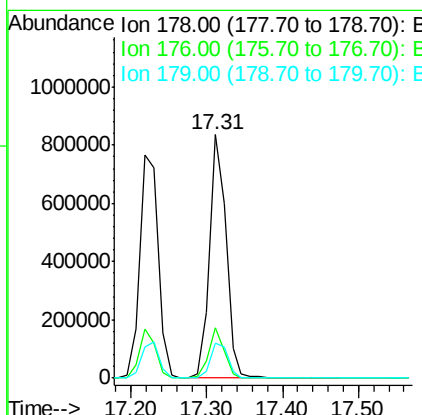
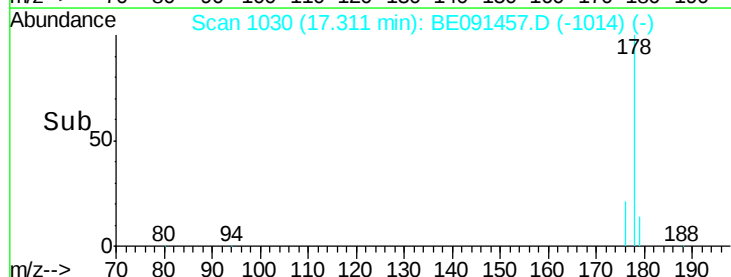
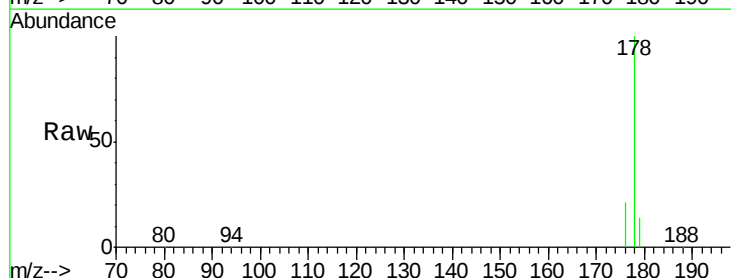
Manual Integrations  
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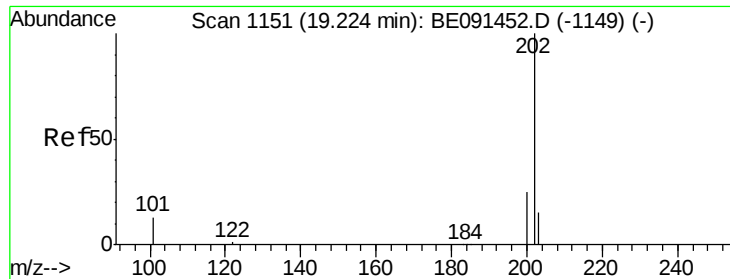
Sohil  
3/17/2016 5:22:26 PM



#17  
Anthracene  
Concen: 5.81 ng  
RT: 17.31 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

Tgt Ion:178 Resp: 1255864  
Ion Ratio Lower Upper  
178 100  
176 19.2 0.0 0.0#  
179 15.7 0.0 0.0#





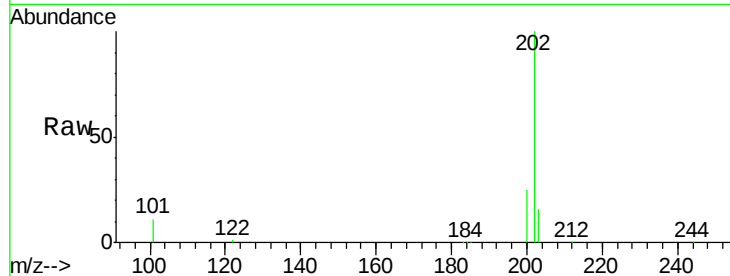
#18  
 Fluoranthene  
 Concen: 6.71 ng  
 RT: 19.22 min Scan# 1152  
 Delta R.T. 0.00 min  
 Lab File: BE091457.D  
 Acq: 16 Mar 2016 23:45

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC010

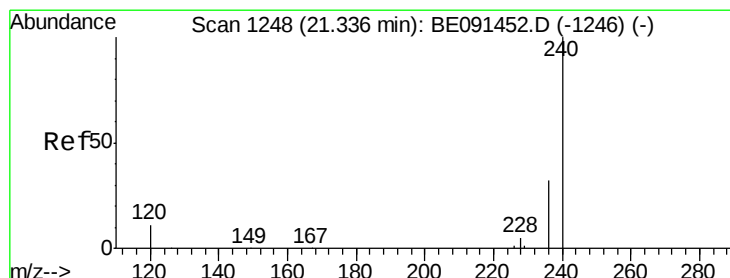
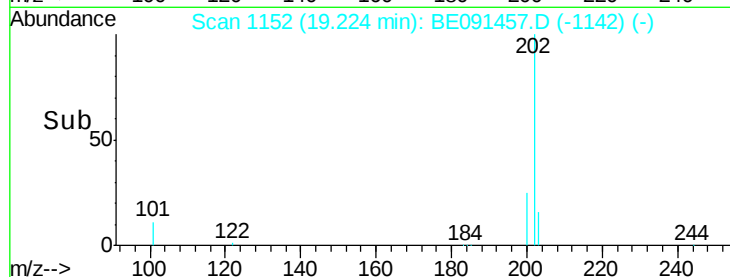
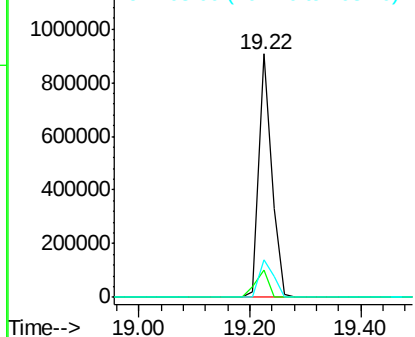
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.5  | 1.1   | 1.7#  |
| 203     | 17.6  | 1.0   | 1.6#  |

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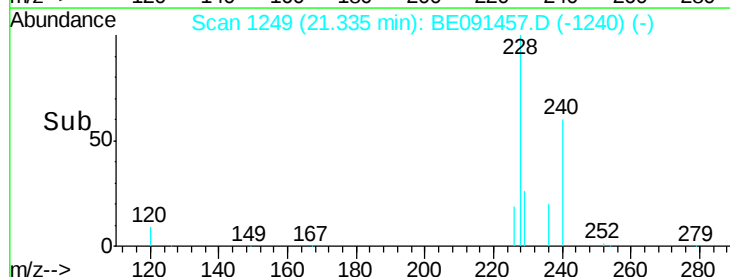
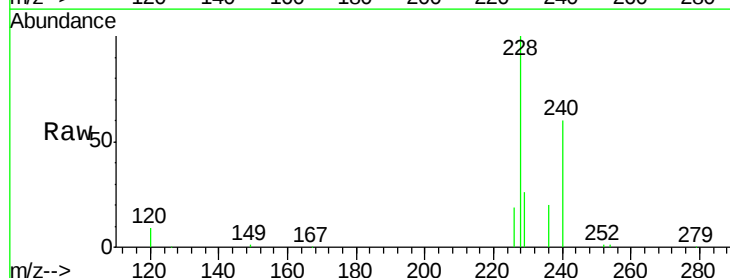
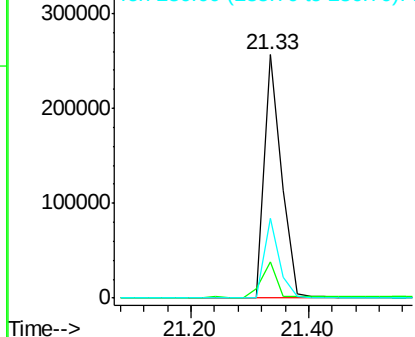
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

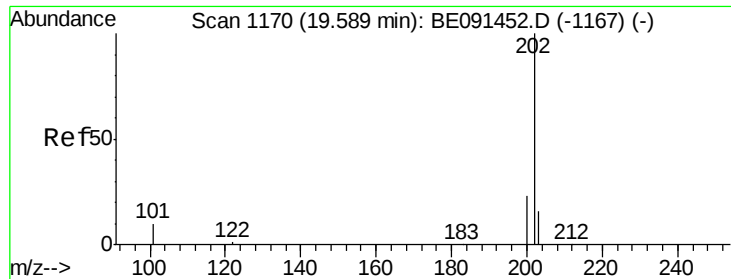


#19  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.33 min Scan# 1249  
 Delta R.T. -0.00 min  
 Lab File: BE091457.D  
 Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.0  | 8.8   | 13.2# |
| 236     | 32.8  | 25.7  | 38.5  |

Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





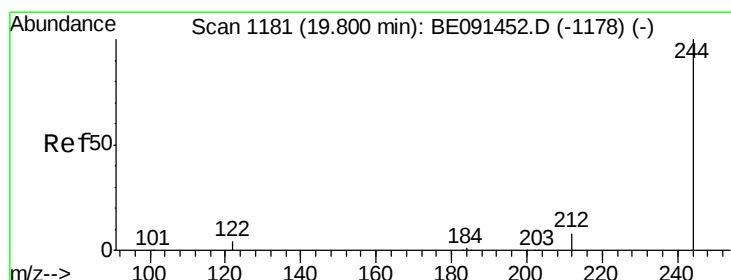
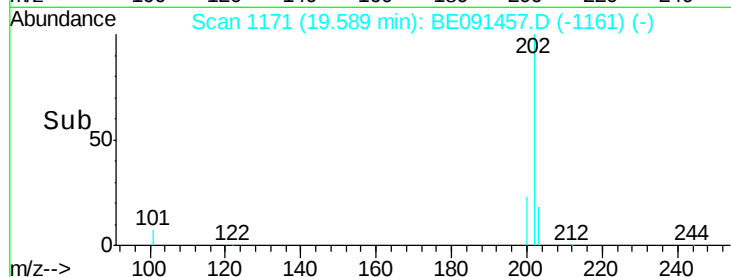
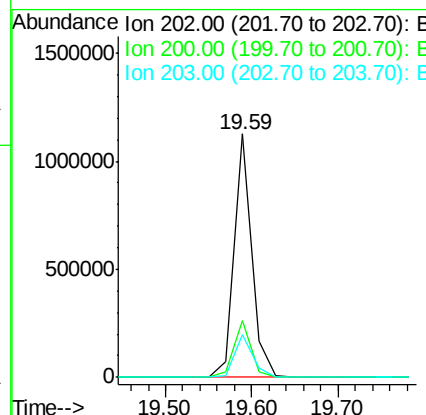
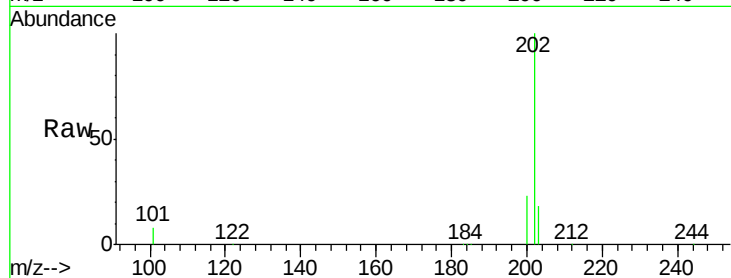
#20  
 Pyrene  
 Concen: 10.78 ng  
 RT: 19.59 min Scan# 1171  
 Delta R.T. 0.00 min  
 Lab File: BE091457.D  
 Acq: 16 Mar 2016 23:45

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC010

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 1595983 |       |       |
| 200     | 22.5  | 0.0     | 0.0   | 0.0   |
| 203     | 18.4  | 0.1     | 0.1   | 0.1   |

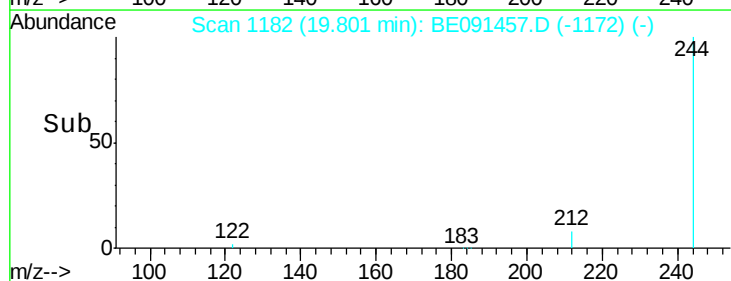
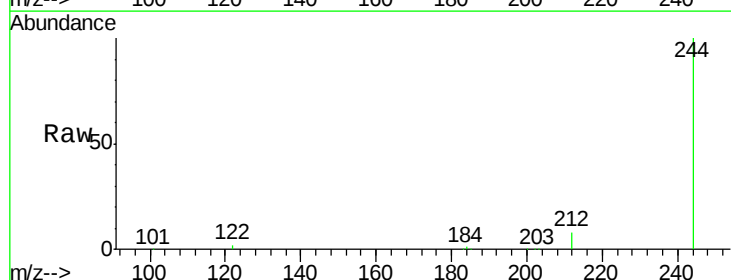
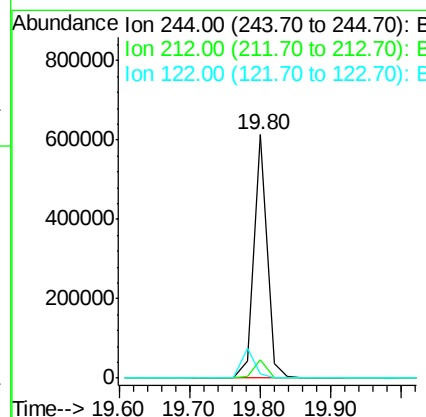
Manual Integrations  
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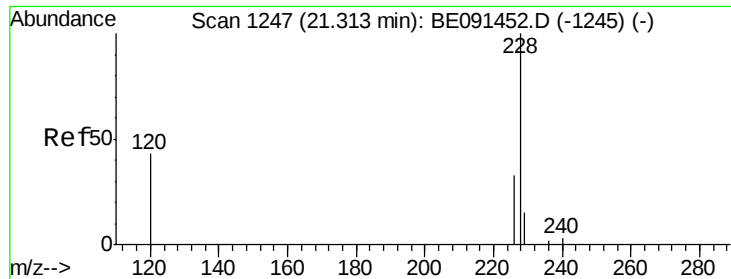
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#21  
 Terphenyl-d14  
 Concen: 10.23 ng  
 RT: 19.80 min Scan# 1182  
 Delta R.T. 0.00 min  
 Lab File: BE091457.D  
 Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 808267 |       |       |
| 212     | 7.6   | 6.6    | 10.0  |       |
| 122     | 1.9   | 3.4    | 5.0   |       |





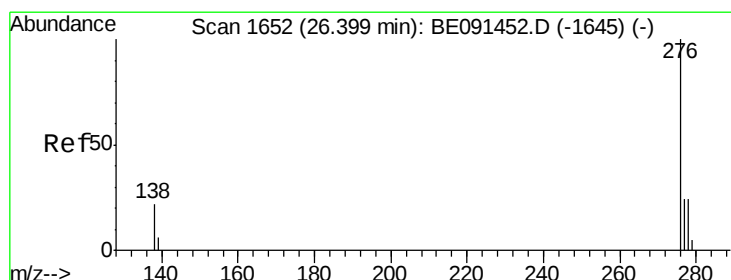
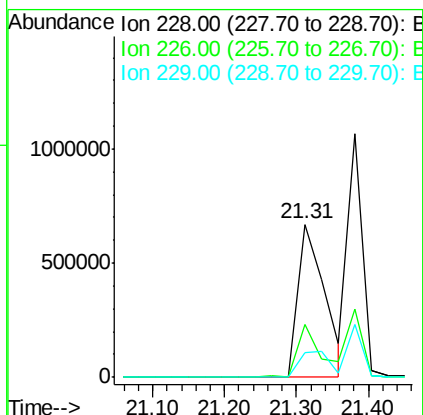
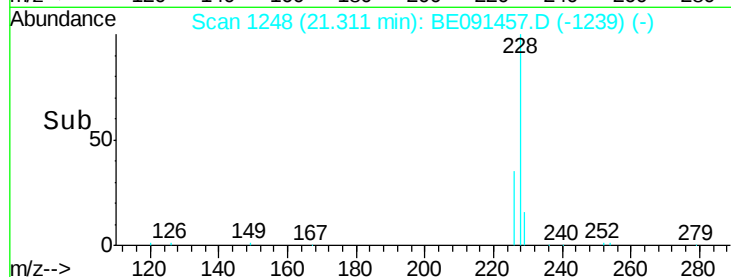
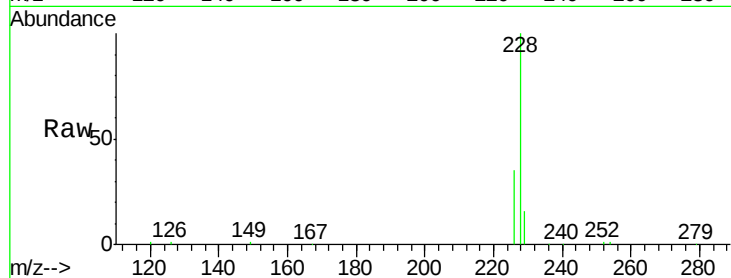
#22  
Benzo(a)anthracene  
Concen: 9.54 ng  
RT: 21.31 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC010

Tgt Ion:228 Resp: 1726162  
Ion Ratio Lower Upper  
228 100  
226 34.5 27.1 40.7  
229 15.8 12.3 18.5

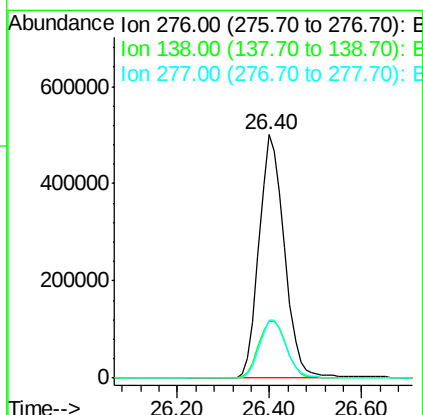
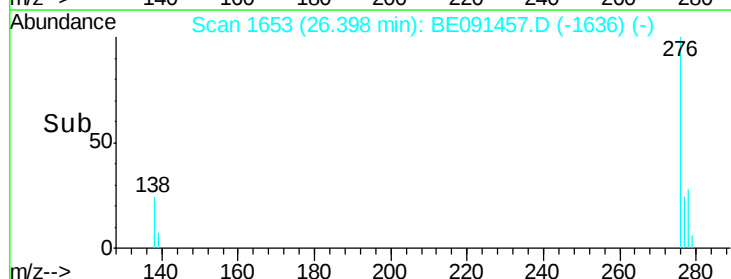
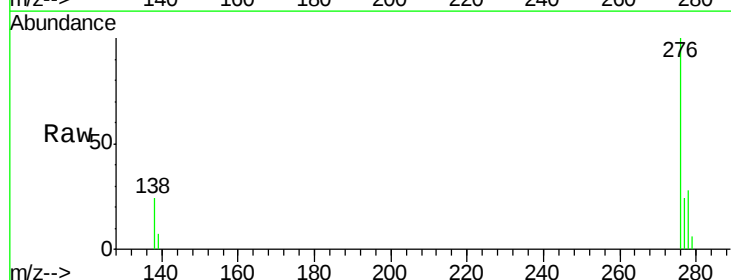
Manual Integrations  
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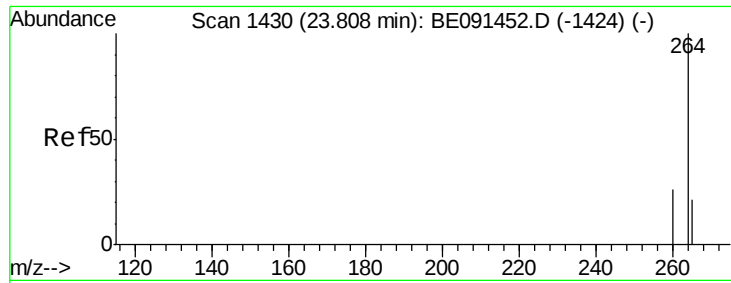
Sohil  
3/17/2016 5:22:26 PM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 11.91 ng  
RT: 26.40 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

Tgt Ion:276 Resp: 1909725  
Ion Ratio Lower Upper  
276 100  
138 26.0 0.0 0.0#  
277 25.1 0.0 0.0#





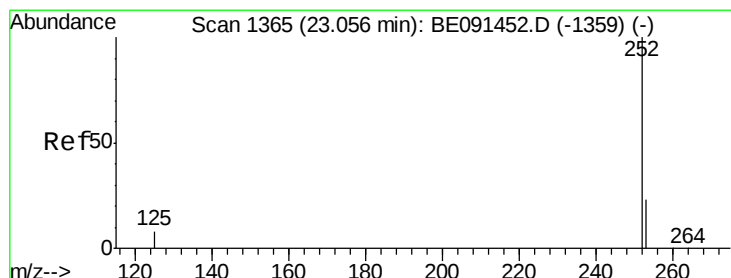
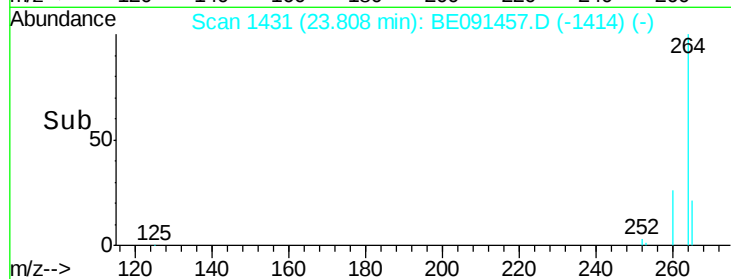
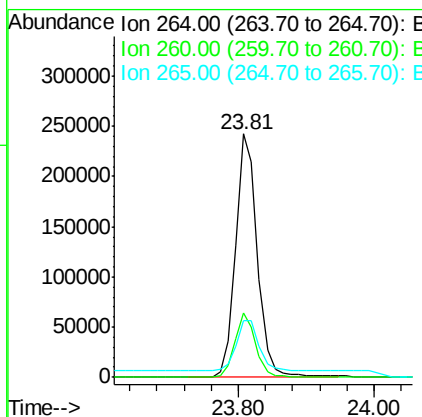
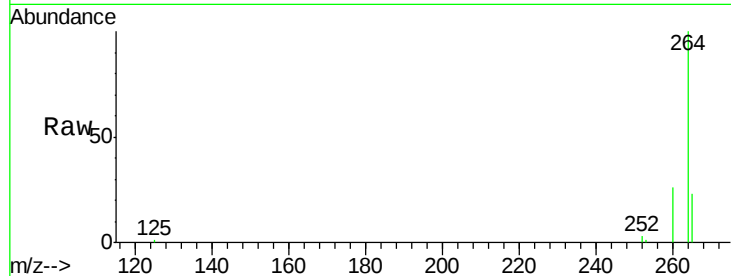
#25  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.81 min Scan# 1431  
 Delta R.T. -0.00 min  
 Lab File: BE091457.D  
 Acq: 16 Mar 2016 23:45

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC010

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 541371 |       |       |
| 260     | 26.5  | 20.7   | 31.1  |       |
| 265     | 23.4  | 19.4   | 29.2  |       |

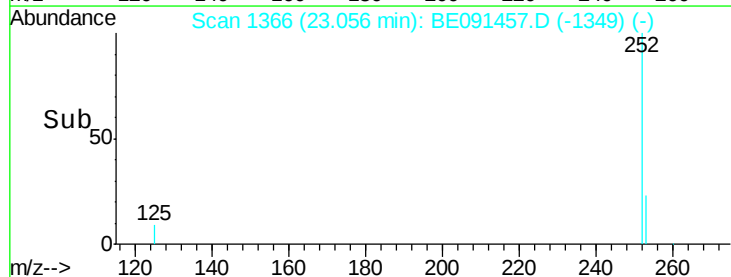
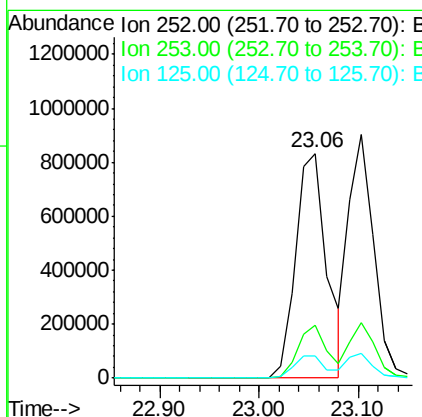
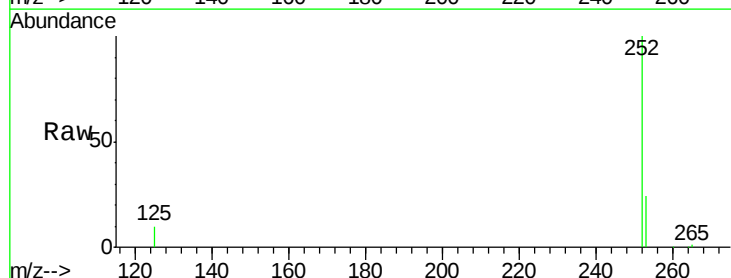
Manual Integrations  
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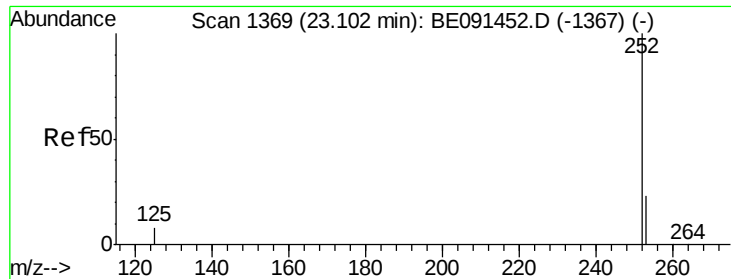
Sohil  
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#26  
 Benzo(b)fluoranthene  
 Concen: 11.44 ng  
 RT: 23.06 min Scan# 1366  
 Delta R.T. -0.00 min  
 Lab File: BE091457.D  
 Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 252     | 100   | 1809717 |       |       |
| 253     | 23.5  | 20.6    | 30.8  |       |
| 125     | 9.6   | 10.2    | 15.4  |       |





#27

Benzo(k)fluoranthene

Concen: 10.92 ng

RT: 23.10 min Scan# 1370

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA\_E

ClientSampleId :

SSTDIC010

Tgt Ion: 252 Resp: 1594688

Ion Ratio Lower Upper

252 100

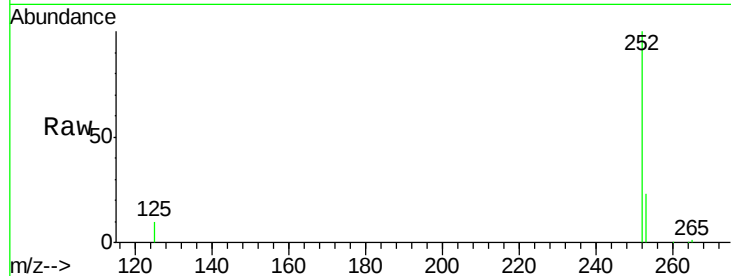
253 23.0 20.2 30.2

125 9.9 10.6 16.0#

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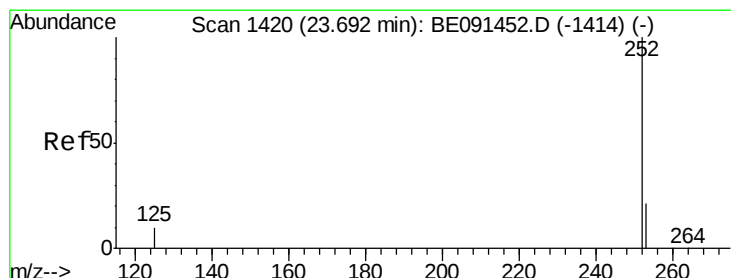
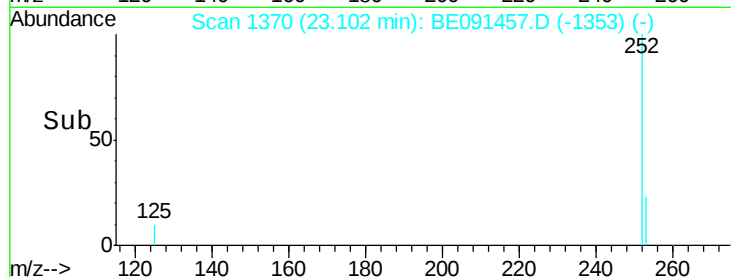
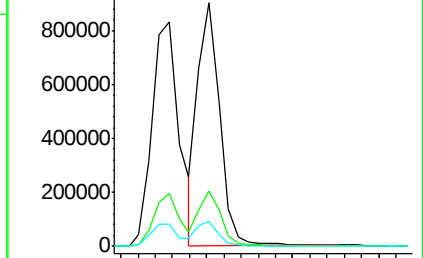
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 12.27 ng

RT: 23.69 min Scan# 1421

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Tgt Ion: 252 Resp: 1636243

Ion Ratio Lower Upper

252 100

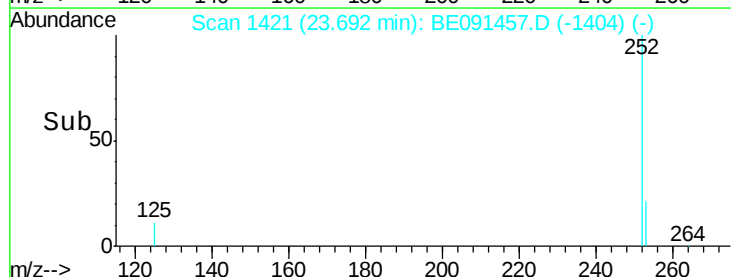
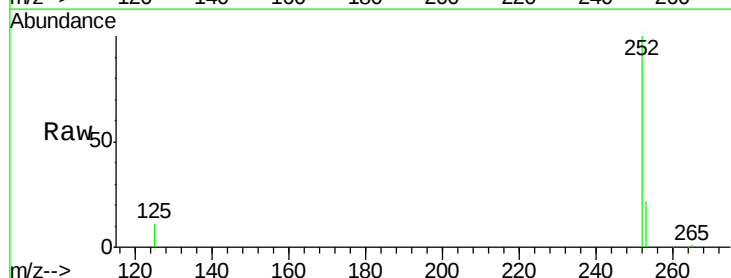
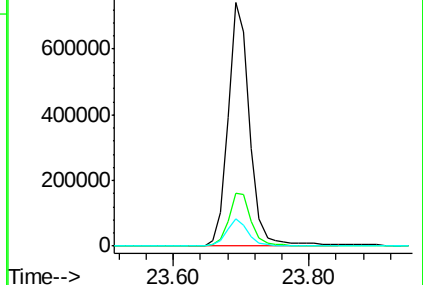
253 21.6 20.0 30.0

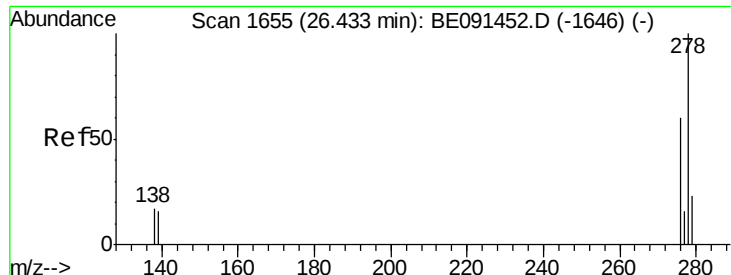
125 11.4 12.7 19.1#

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





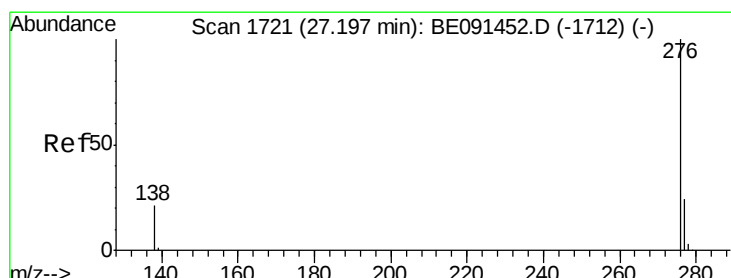
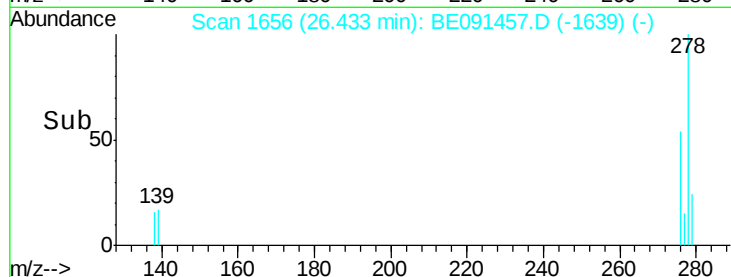
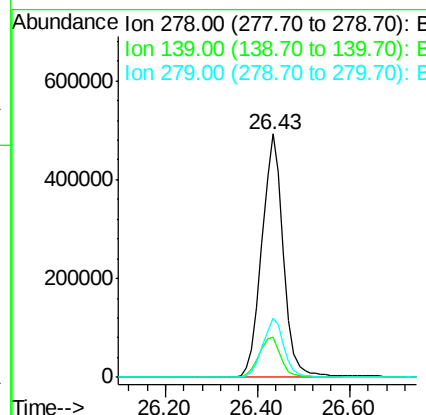
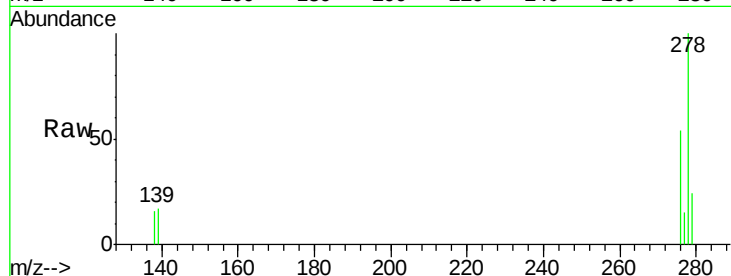
#29  
Dibenzo(a,h)anthracene  
Concen: 12.42 ng  
RT: 26.43 min Scan# 1656  
Delta R.T. -0.00 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDIC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.7  | 13.3  | 19.9  |
| 279     | 24.5  | 20.9  | 31.3  |

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#30  
Benzo(g,h,i)perylene  
Concen: 11.83 ng  
RT: 27.21 min Scan# 1723  
Delta R.T. 0.01 min  
Lab File: BE091457.D  
Acq: 16 Mar 2016 23:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 19.8  | 29.8  |
| 138     | 21.0  | 17.6  | 26.4  |

