

Data Path : Z:\HPCHEM1\BNA E\DATA\BE050316\  
 Data File : BE091745.D  
 Acq On : 3 May 2016 16:07  
 Operator : UM/SJ  
 Sample : PB90269BS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90269BS

Manual Integrations  
 APPROVED

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 5/4/2016 6:49:45 PM

Quant Time: May 04 01:22:08 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE042616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 26 16:09:46 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.80  | 152  | 42797    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.57 | 136  | 197187   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.41 | 164  | 115046   | 5.00 | ng    | -0.01    |
| 19) Phenanthrene-d10           | 17.15 | 188  | 275025   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12               | 21.31 | 240  | 300090   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12               | 23.75 | 264  | 309725   | 5.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 5.39  | 112  | 65182    | 6.20 | ng    | 0.00     |
| 5) Phenol-d6                   | 6.96  | 99   | 93092    | 6.68 | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.95  | 82   | 41621    | 3.27 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.89 | 330  | 26785    | 6.29 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl           | 13.03 | 172  | 118976   | 3.66 | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.76 | 244  | 181262   | 3.87 | ng    | 0.00     |
| Target Compounds               |       |      |          |      |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.33  | 88   | 15658    | 3.11 | ng    | 92       |
| 3) n-Nitrosodimethylamine      | 3.63  | 42   | 24232    | 3.12 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether     | 7.21  | 93   | 39587    | 3.23 | ng    | # 75     |
| 9) Nitrobenzene                | 8.99  | 77   | 43039    | 3.23 | ng    | 93       |
| 10) Naphthalene                | 10.61 | 128  | 134180   | 3.37 | ng    | 98       |
| 11) Hexachlorobutadiene        | 10.90 | 225  | 21041    | 3.58 | ng    | 98       |
| 12) 2-Methylnaphthalene        | 12.23 | 142  | 93781    | 3.66 | ng    | 99       |
| 16) Acenaphthylene             | 14.12 | 152  | 162551   | 3.67 | ng    | # 86     |
| 17) Acenaphthene               | 14.47 | 154  | 104899   | 3.66 | ng    | 98       |
| 18) Fluorene                   | 15.45 | 166  | 126540   | 3.55 | ng    | 98       |
| 20) 4-Bromophenyl-phenylether  | 16.33 | 248  | 36343    | 3.67 | ng    | 92       |
| 21) Hexachlorobenzene          | 16.45 | 284  | 37159m   | 3.76 | ng    |          |
| 22) Pentachlorophenol          | 16.79 | 266  | 36739    | 6.88 | ng    | 89       |
| 23) Phenanthrene               | 17.18 | 178  | 225715   | 3.61 | ng    | 99       |
| 24) Anthracene                 | 17.27 | 178  | 211663   | 3.76 | ng    | 99       |
| 25) Fluoranthene               | 19.19 | 202  | 252552   | 3.87 | ng    | # 97     |
| 27) Benzidine                  | 19.38 | 184  | 22886    | 1.10 | ng    | # 76     |
| 28) Pyrene                     | 19.55 | 202  | 283279   | 4.18 | ng    | 99       |
| 30) Benzo(a)anthracene         | 21.29 | 228  | 277599   | 3.79 | ng    | 94       |
| 31) 3,3'-Dichlorobenzidine     | 21.22 | 252  | 17079    | 0.46 | ng    | # 82     |
| 32) Chrysene                   | 21.33 | 228  | 304626m  | 4.00 | ng    |          |
| 33) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 84849    | 3.82 | ng    | # 87     |
| 34) Indeno(1,2,3-cd)pyrene     | 26.29 | 276  | 274641   | 4.05 | ng    | 96       |
| 36) Benzo(b)fluoranthene       | 22.99 | 252  | 277733   | 3.83 | ng    | 96       |
| 37) Benzo(k)fluoranthene       | 23.04 | 252  | 260496m  | 3.53 | ng    |          |
| 38) Benzo(a)pyrene             | 23.63 | 252  | 249504   | 3.65 | ng    | # 97     |
| 39) Dibenzo(a,h)anthracene     | 26.32 | 278  | 232272   | 3.59 | ng    | 96       |
| 40) Benzo(g,h,i)perylene       | 27.09 | 276  | 232172   | 3.53 | ng    | # 94     |

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

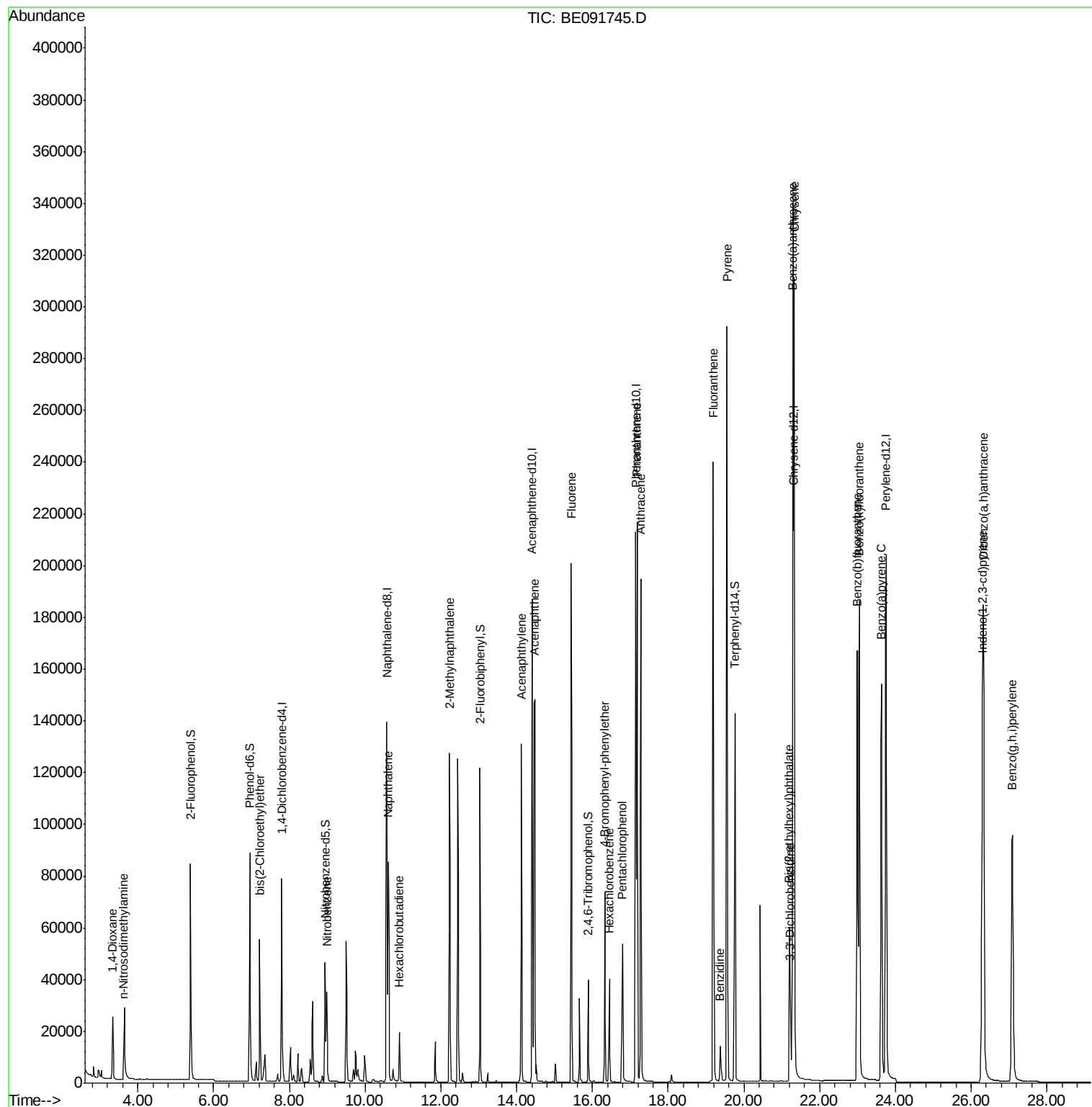
Data Path : Z:\HPCHEM1\BNA E\DATA\BE050316\  
Data File : BE091745.D  
Acq On : 3 May 2016 16:07  
Operator : UM/SJ  
Sample : PB90269BS  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampled :  
PB90269BS

Manual Integrations  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 26 16:09:46 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. 0.00 min

Lab File: BE091745.D

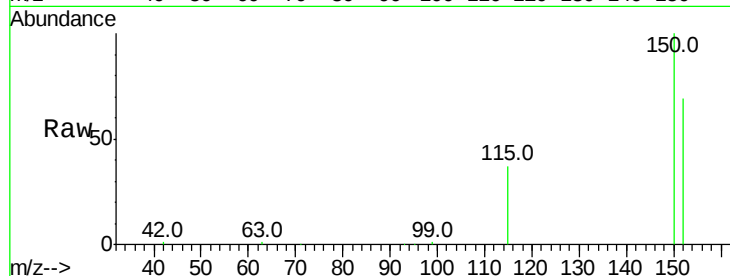
Acq: 3 May 2016 16:07

Instrument :

BNA\_E

ClientSampleId :

PB90269BS



Tot Ion:152 Resp: 42797

Ion Ratio Lower Upper

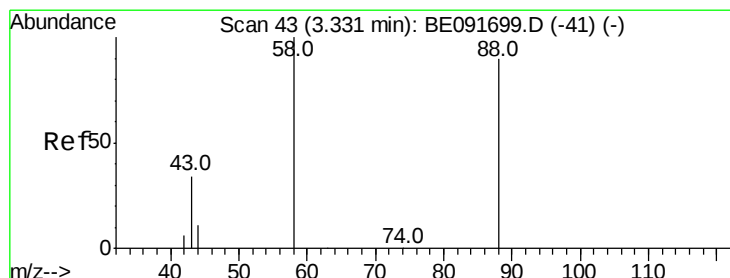
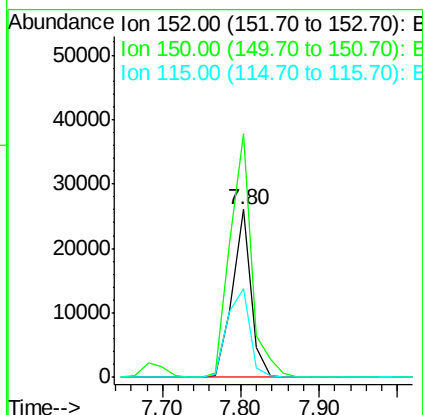
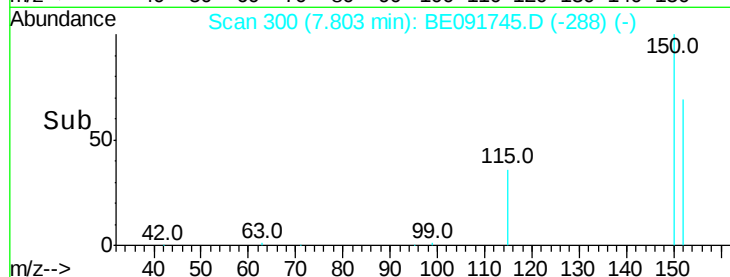
152 100

150 145.3 122.6 183.8

115 53.1 52.8 79.2

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#2

1,4-Dioxane

Concen: 3.11 ng

RT: 3.33 min Scan# 43

Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

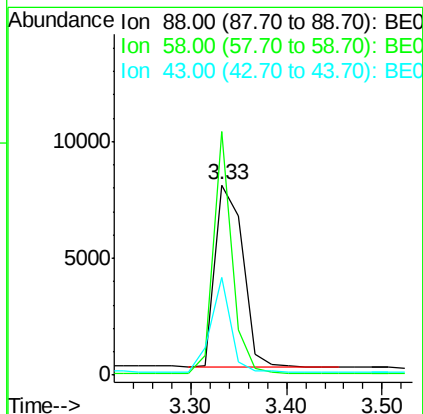
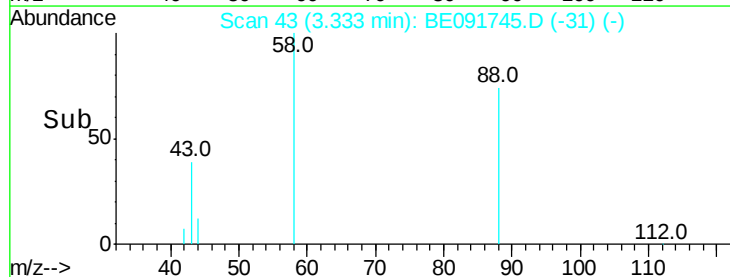
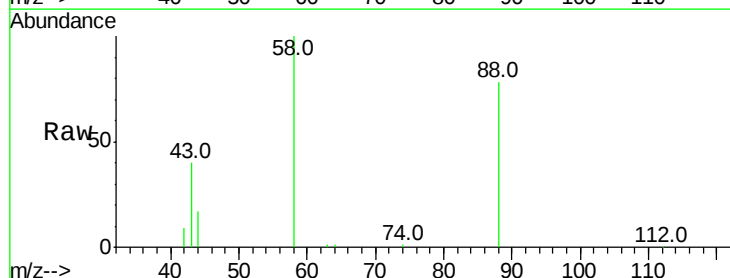
Tgt Ion: 88 Resp: 15658

Ion Ratio Lower Upper

88 100

58 88.8 65.8 98.6

43 37.2 25.3 37.9





#3

n-Nitrosodimethylamine

Concen: 3.12 ng

RT: 3.63 min Scan# 60

Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

Instrument :

BNA\_E

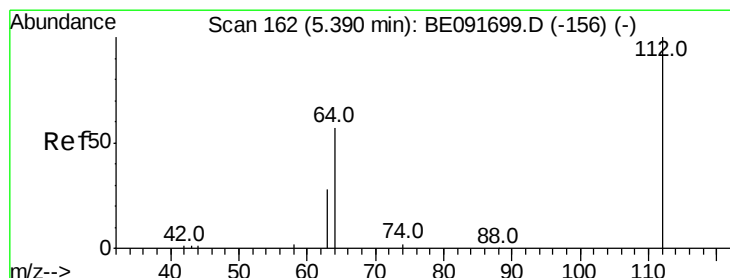
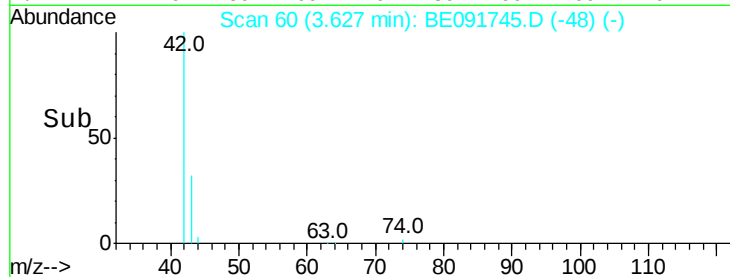
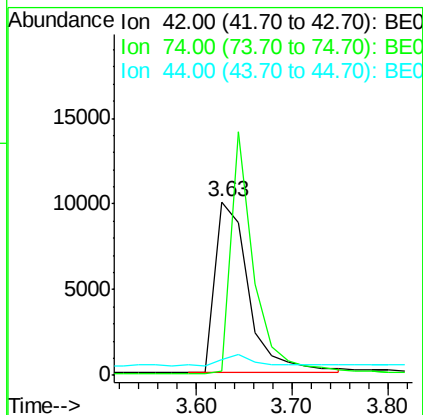
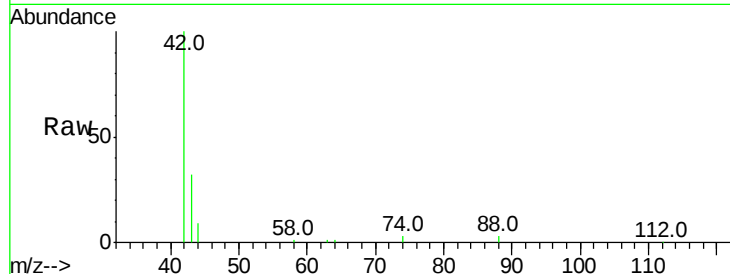
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 42    | Resp: | 24232 |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 99.1  | 87.9  | 131.9 |
| 44        | 5.8   | 6.6   | 9.8#  |



#4

2-Fluorophenol

Concen: 6.20 ng

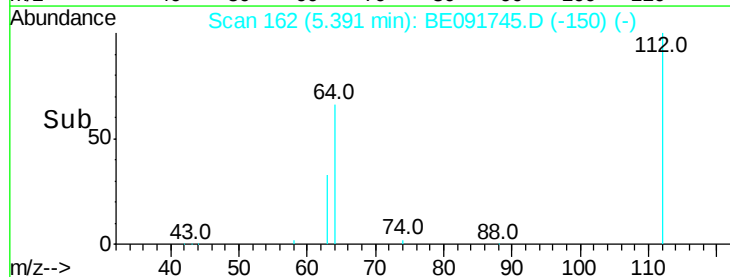
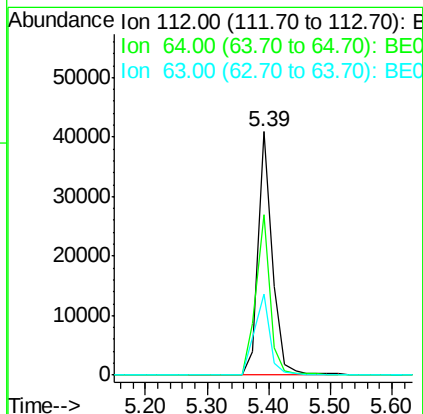
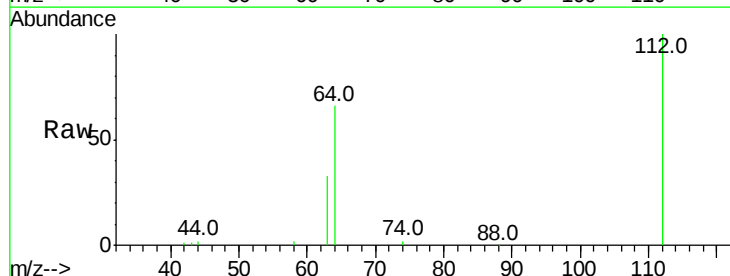
RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 65182 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 66.6  | 30.9  | 46.3# |
| 63        | 36.1  | 16.7  | 25.1# |





#5

Phenol-d6

Concen: 6.68 ng

RT: 6.96 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

Instrument :

BNA\_E

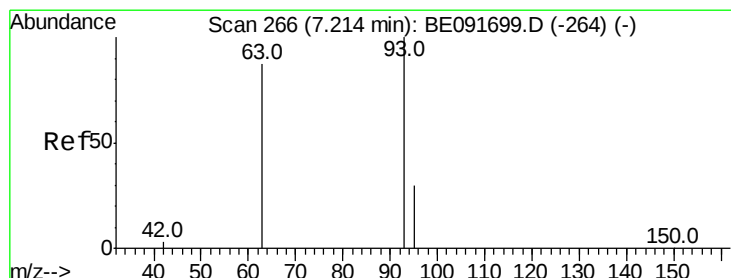
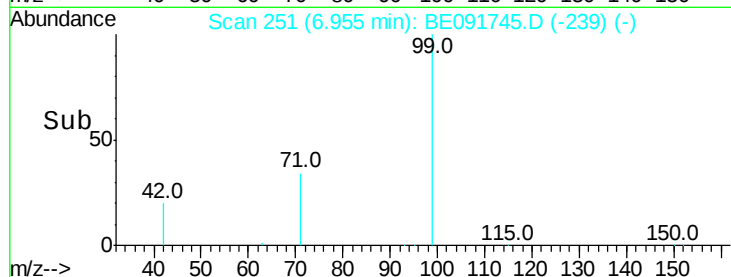
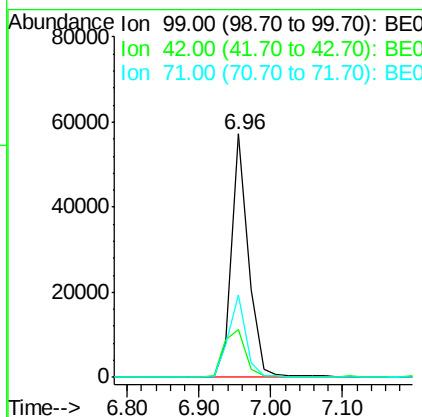
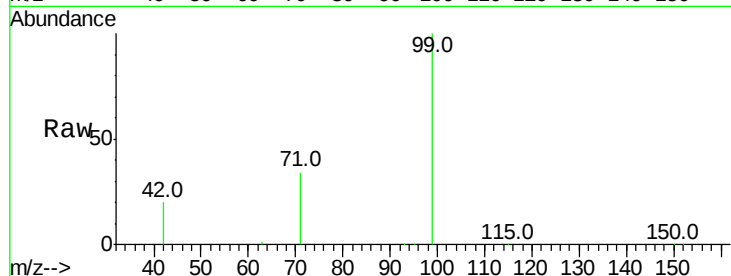
ClientSampleId :

PB90269BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 93092 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 25.5  | 16.2  | 24.2# |
| 71        | 35.2  | 29.0  | 43.4  |

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#6

bis(2-Chloroethyl)ether

Concen: 3.23 ng

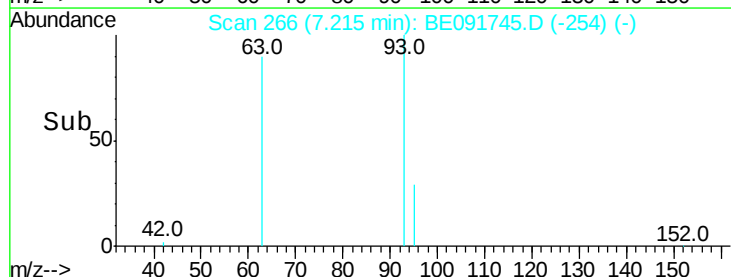
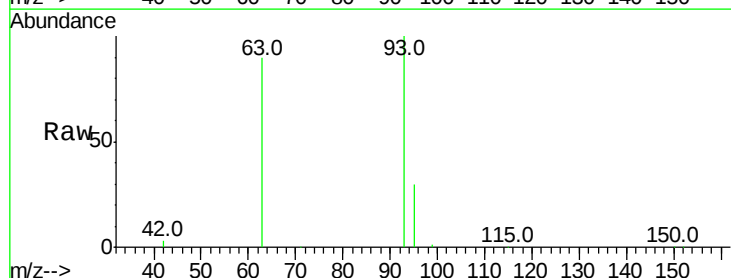
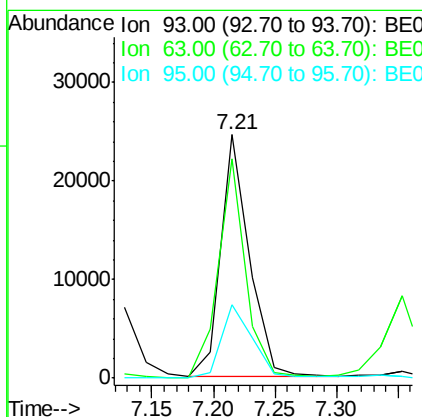
RT: 7.21 min Scan# 266

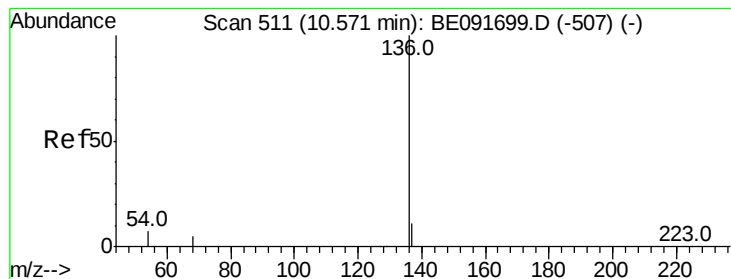
Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 39587 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 86.8  | 49.5  | 74.3# |
| 95        | 32.7  | 22.2  | 33.4  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

Instrument :

BNA\_E

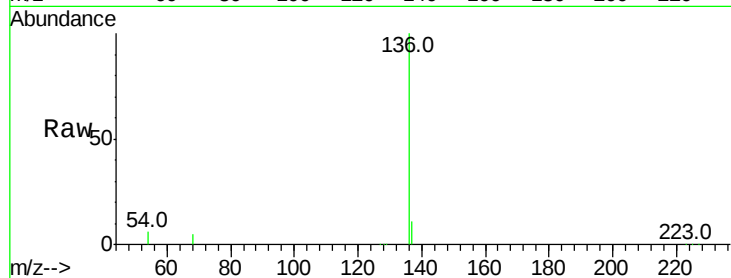
ClientSampleId :

PB90269BS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 136     | 100   |            |       |
| 137     | 11.3  | 8.9        | 13.3  |
| 54      | 6.3   | 8.2        | 12.4# |
| 68      | 4.7   | 6.2        | 9.4#  |

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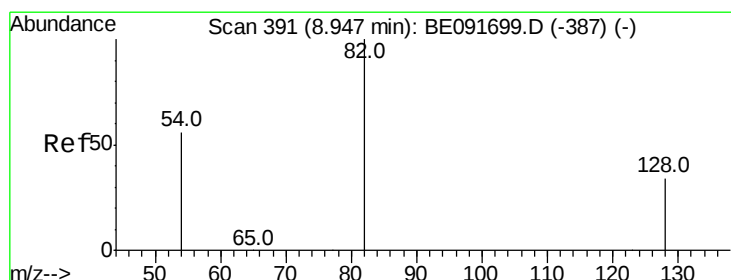
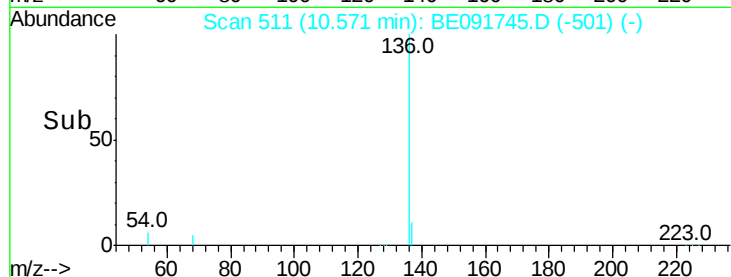
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time--> 10.40 10.50 10.60 10.70



#8

Nitrobenzene-d5

Concen: 3.27 ng

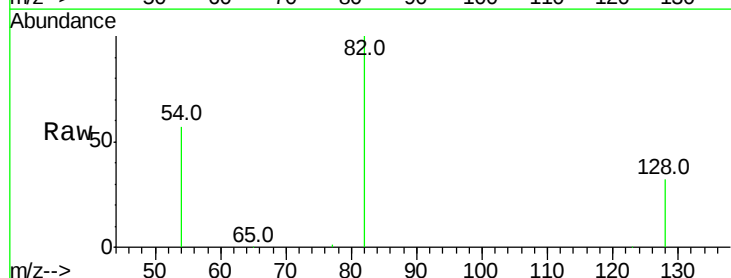
RT: 8.95 min Scan# 391

Delta R.T. -0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 32.5  | 25.4       | 38.0  |
| 54      | 56.7  | 48.4       | 72.6  |

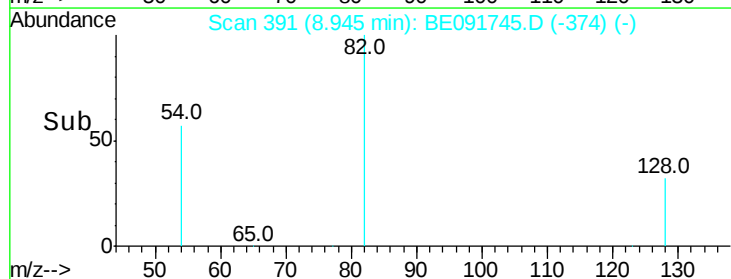


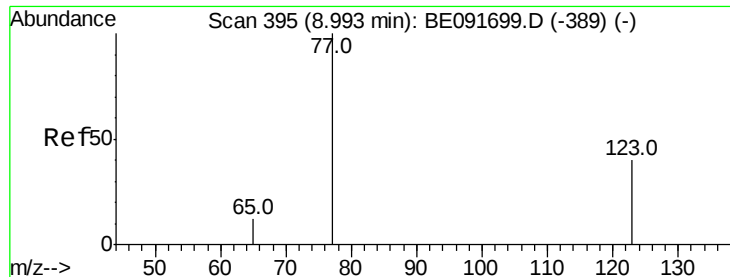
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

Time--> 8.90 9.00 9.10





#9

Nitrobenzene

Concen: 3.23 ng

RT: 8.99 min Scan# 395

Delta R.T. -0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

Instrument :

BNA\_E

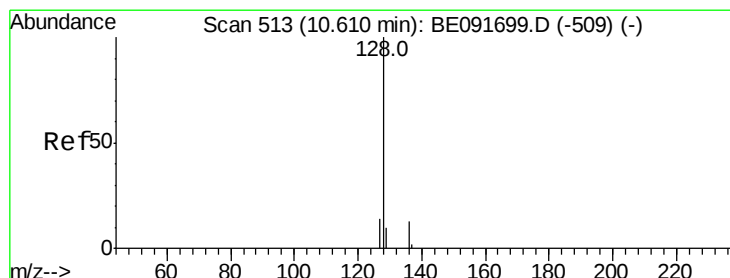
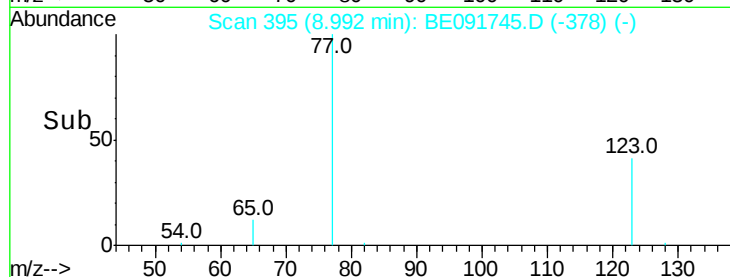
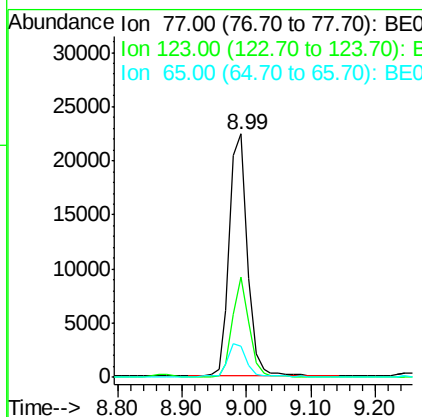
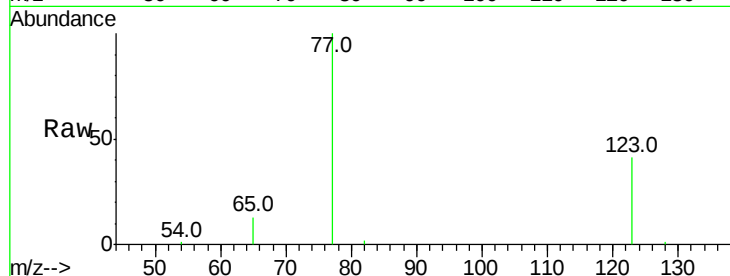
ClientSampleId :

PB90269BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 43039 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 37.6  | 26.9  | 40.3  |
| 65       | 13.8  | 9.4   | 14.2  |

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#10

Naphthalene

Concen: 3.37 ng

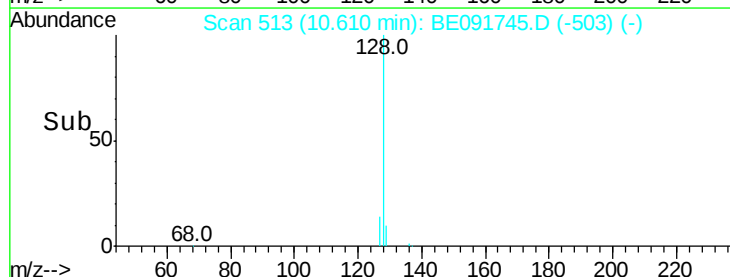
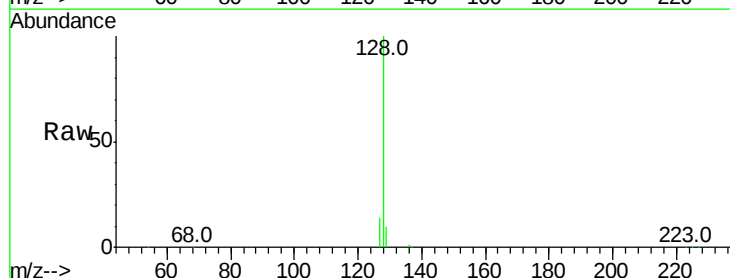
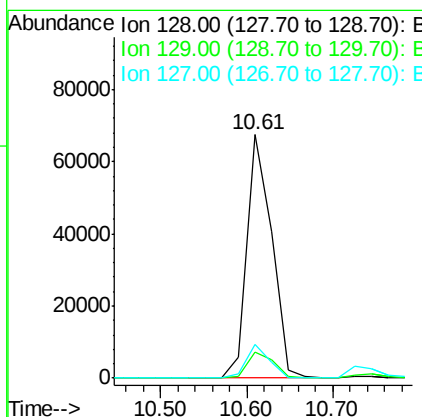
RT: 10.61 min Scan# 513

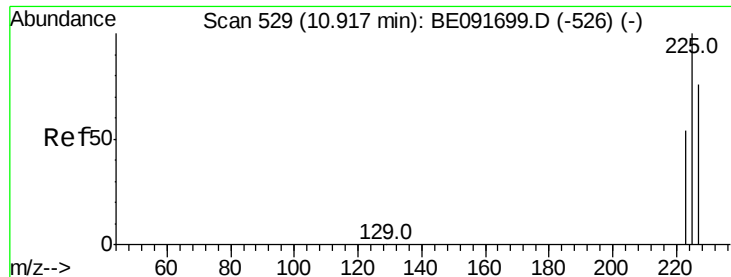
Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 134180 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 10.4  | 9.3   | 13.9   |
| 127      | 14.1  | 10.7  | 16.1   |





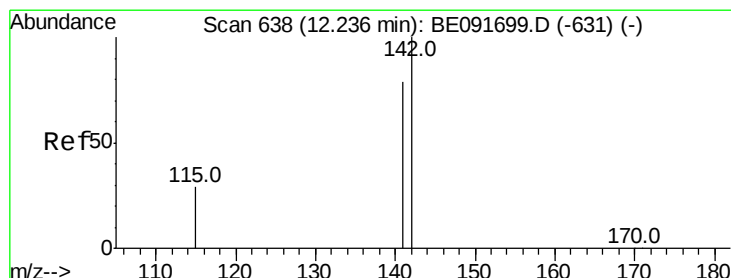
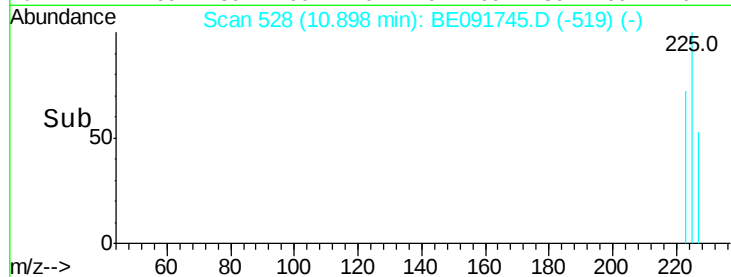
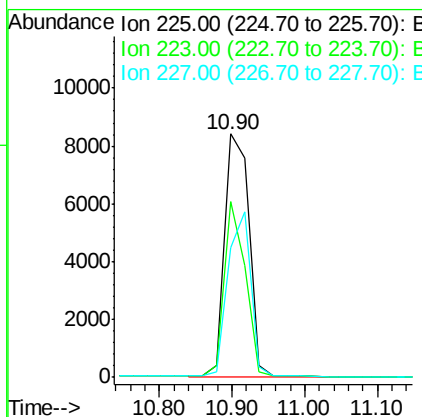
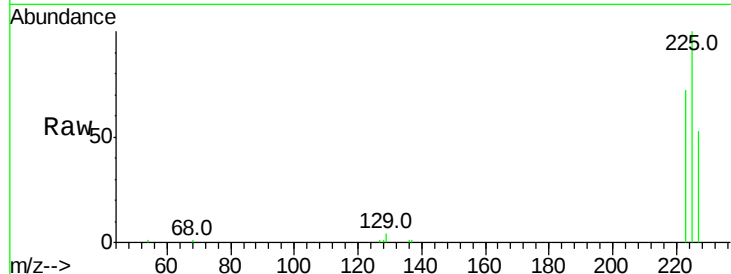
#11  
Hexachlorobutadiene  
Concen: 3.58 ng  
RT: 10.90 min Scan# 528  
Delta R.T. -0.02 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.4  | 49.0  | 73.6  |
| 227     | 64.4  | 50.3  | 75.5  |

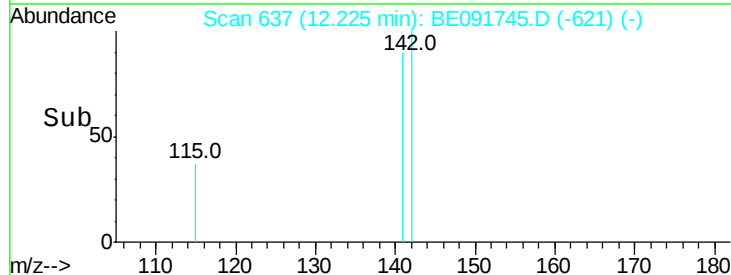
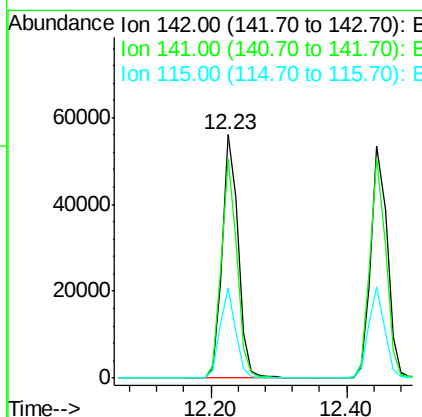
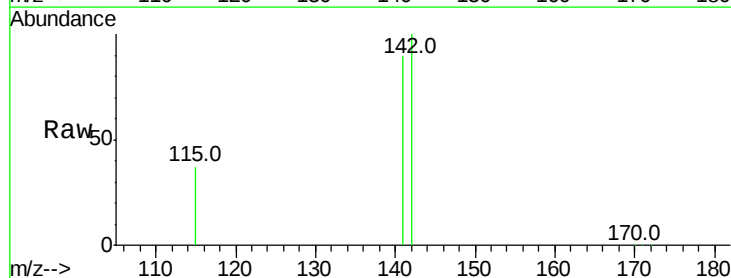
Manual Integrations  
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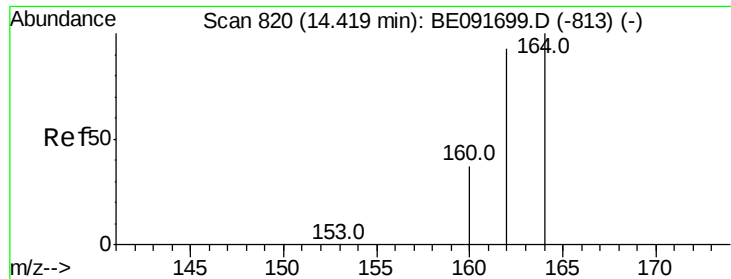
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#12  
2-Methylnaphthalene  
Concen: 3.66 ng  
RT: 12.23 min Scan# 637  
Delta R.T. -0.01 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.1  | 71.4  | 107.0 |
| 115     | 36.9  | 30.3  | 45.5  |





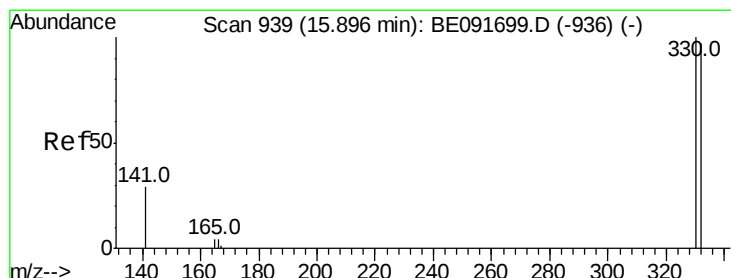
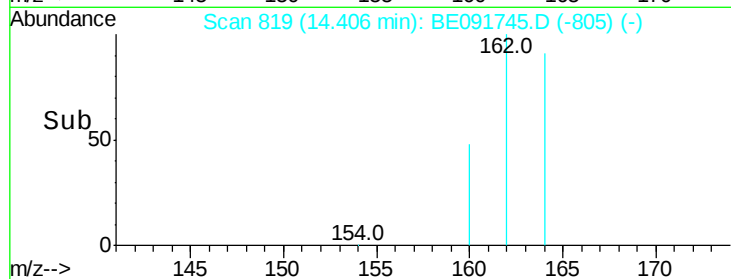
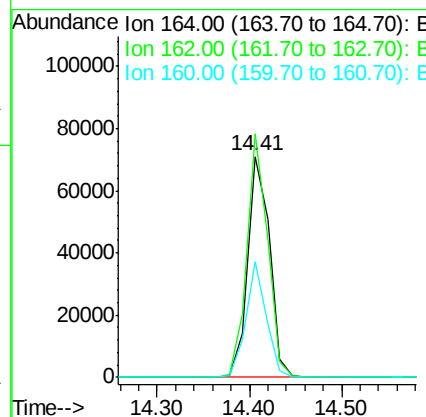
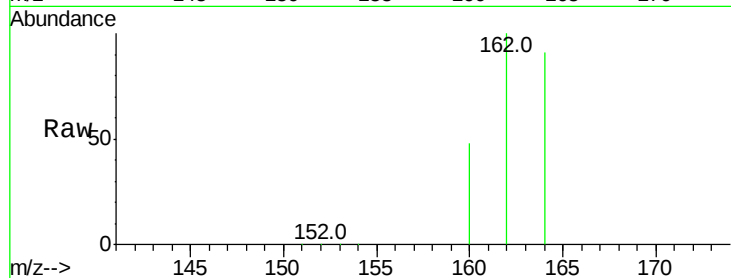
#13  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.41 min Scan# 819  
Delta R.T. -0.01 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 110.3 | 85.3  | 127.9 |
| 160     | 52.5  | 46.2  | 69.2  |

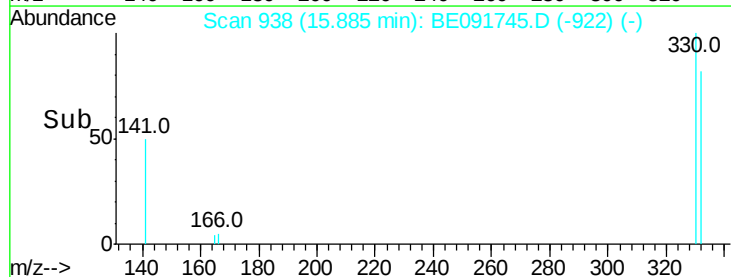
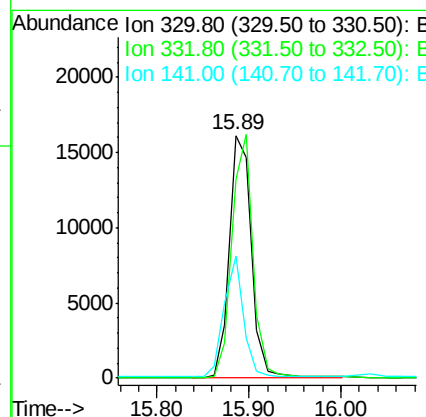
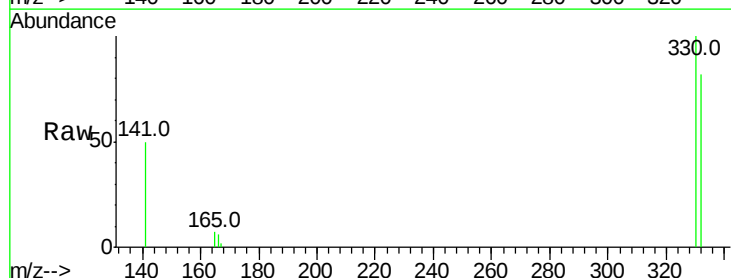
Manual Integrations  
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#14  
2,4,6-Tribromophenol  
Concen: 6.29 ng  
RT: 15.89 min Scan# 938  
Delta R.T. -0.01 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 79.1  | 118.7 |
| 141     | 44.0  | 125.4 | 188.0 |





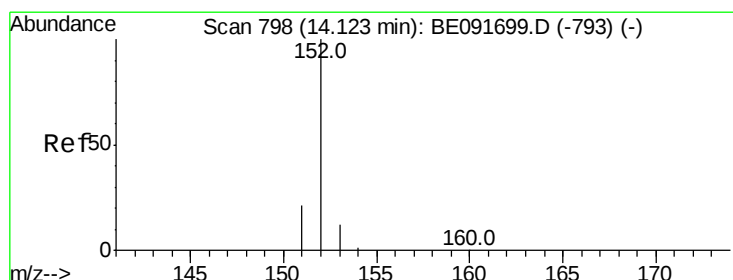
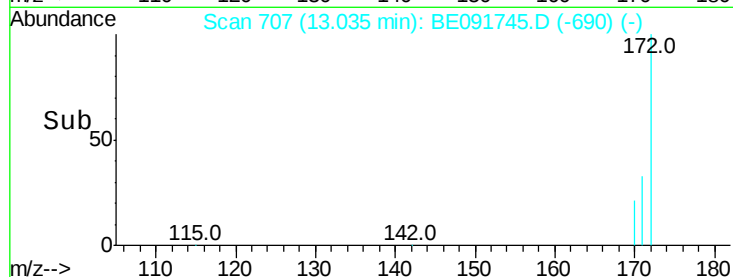
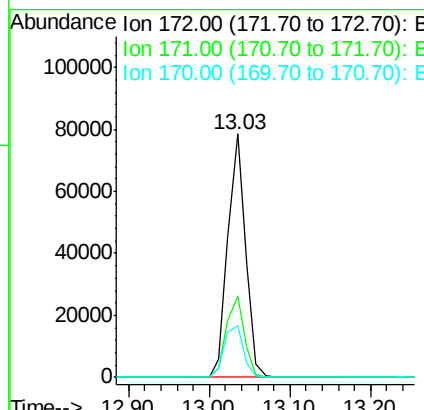
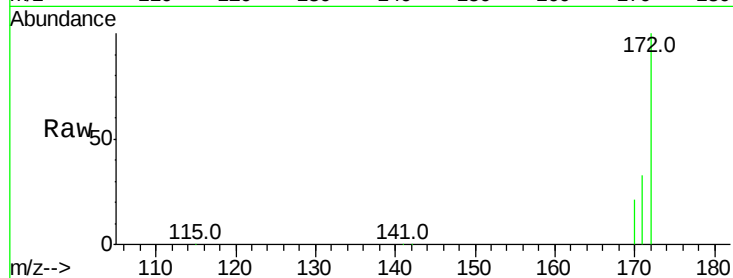
#15  
2-Fluorobiphenyl  
Concen: 3.66 ng  
RT: 13.03 min Scan# 707  
Delta R.T. 0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 118976 |       |       |
| 171     | 33.3  | 28.8   | 43.2  |       |
| 170     | 21.3  | 19.3   | 28.9  |       |

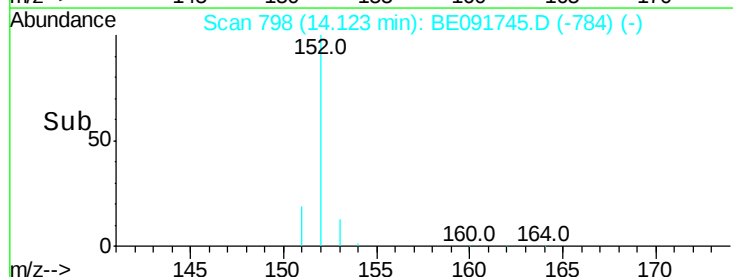
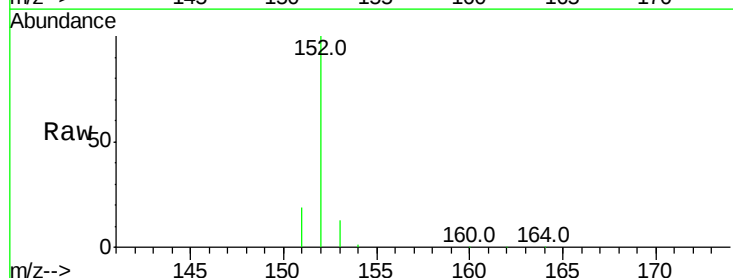
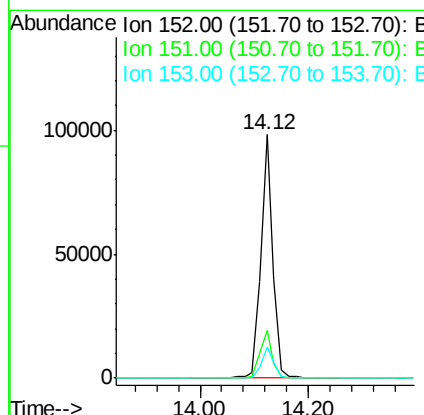
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#16  
Acenaphthylene  
Concen: 3.67 ng  
RT: 14.12 min Scan# 798  
Delta R.T. 0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 162551 |       |       |
| 151     | 20.0  | 3.9    | 5.9#  |       |
| 153     | 13.5  | 10.3   | 15.5  |       |





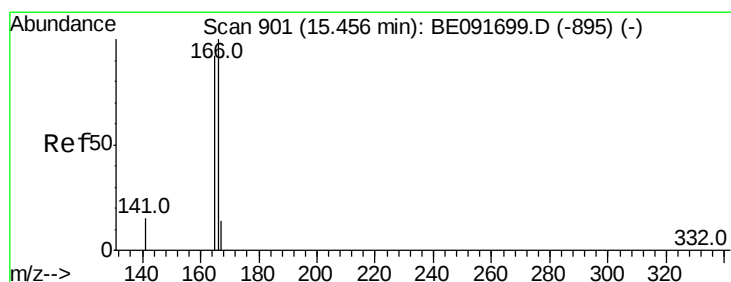
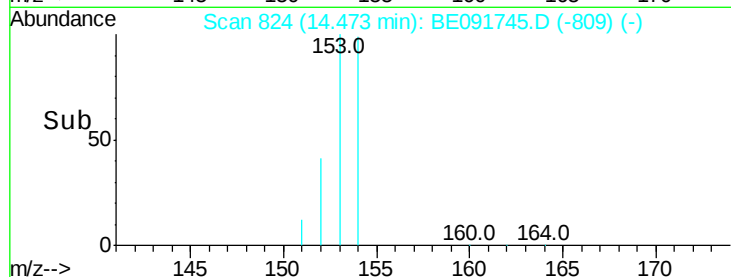
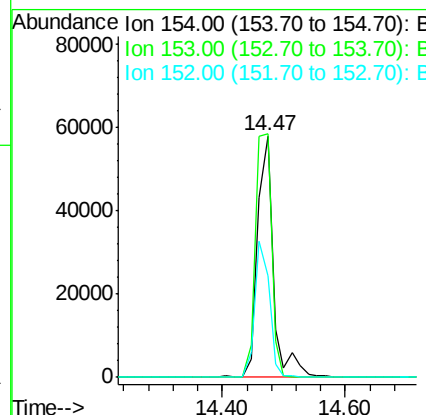
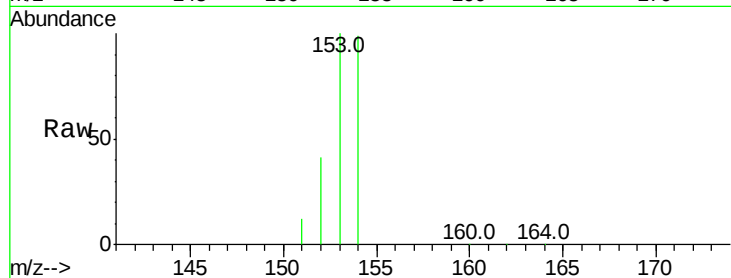
#17  
Acenaphthene  
Concen: 3.66 ng  
RT: 14.47 min Scan# 824  
Delta R.T. 0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 102.9 | 80.0 | 120.0 |       |
| 152     | 51.1  | 40.0 | 60.0  |       |

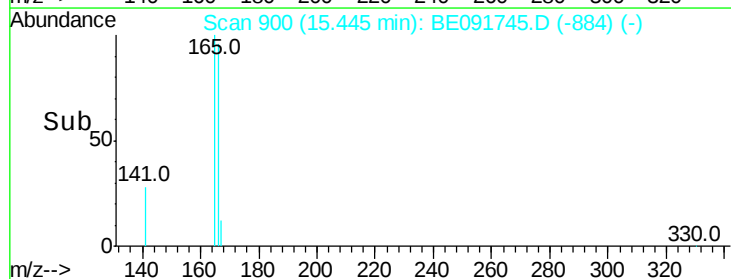
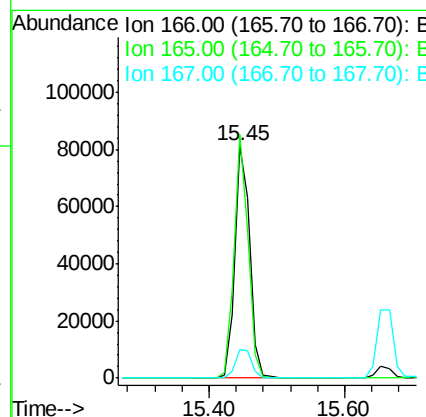
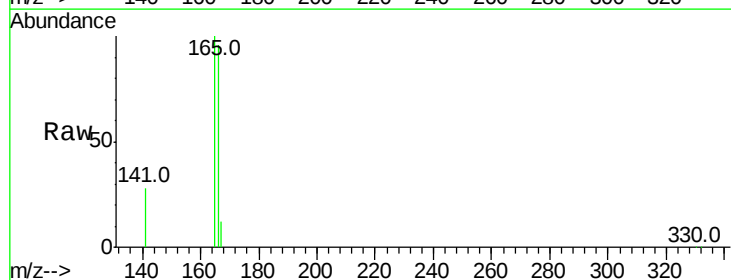
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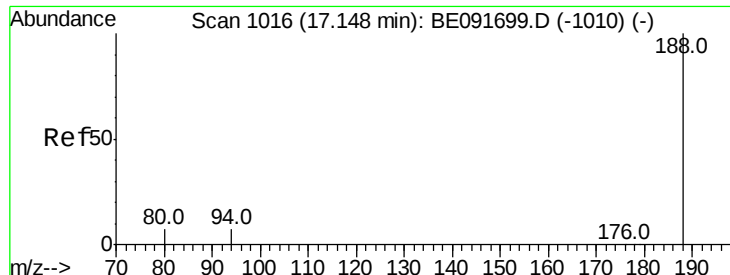
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#18  
Fluorene  
Concen: 3.55 ng  
RT: 15.45 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   |      |       |       |
| 165     | 98.8  | 80.8 | 121.2 |       |
| 167     | 13.4  | 10.9 | 16.3  |       |





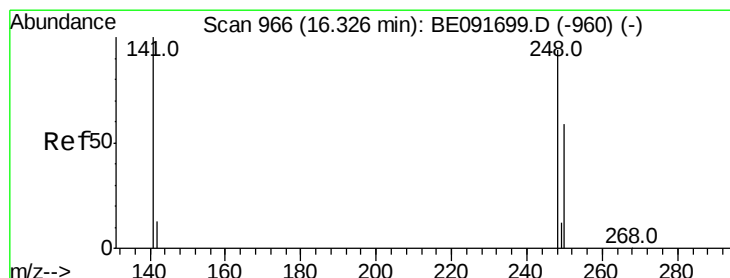
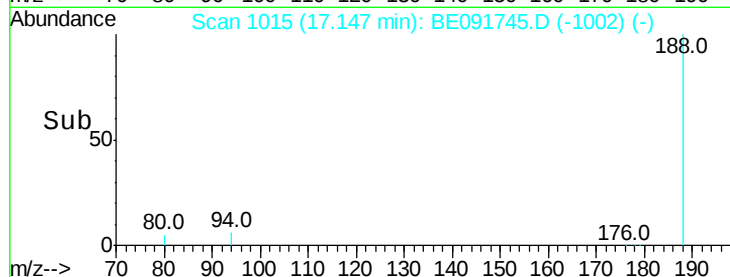
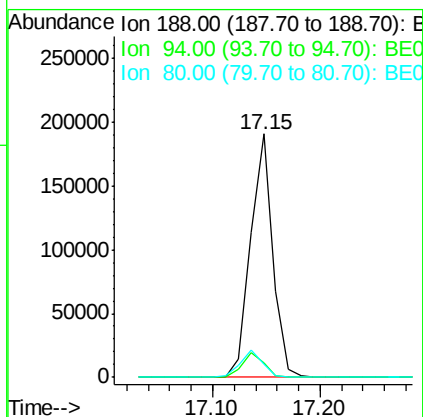
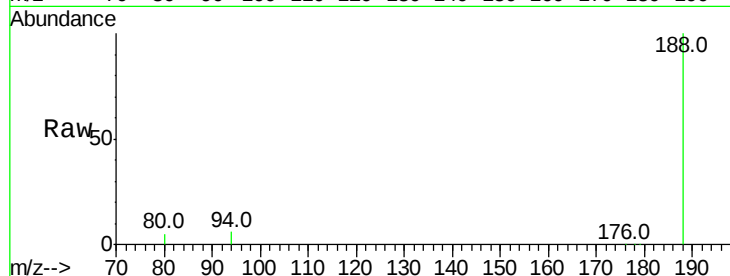
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.15 min Scan# 1015  
Delta R.T. -0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 5.9   | 8.7        | 13.1# |
| 80      | 5.3   | 9.4        | 14.0# |

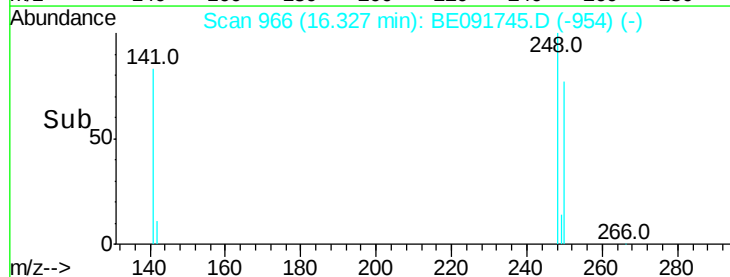
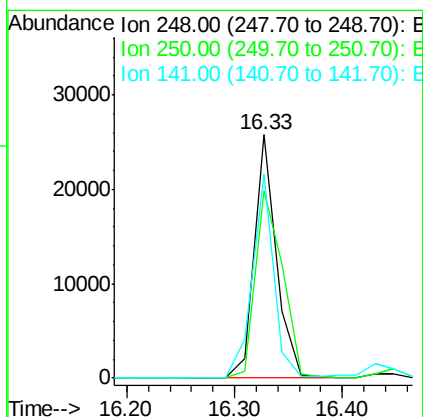
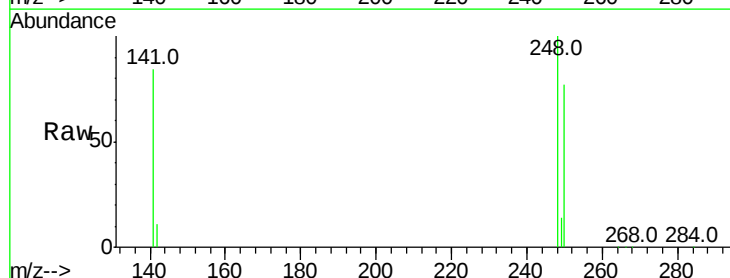
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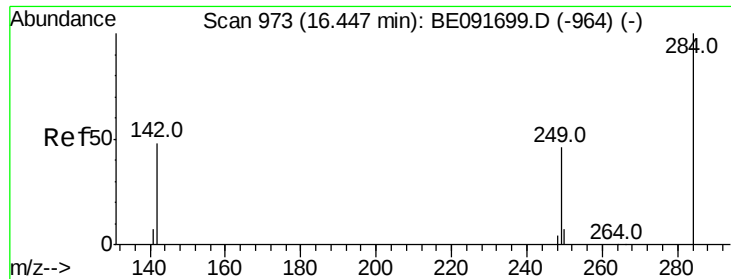
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#20  
4-Bromophenyl-phenylether  
Concen: 3.67 ng  
RT: 16.33 min Scan# 966  
Delta R.T. 0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 248     | 100   |            |       |
| 250     | 94.3  | 80.5       | 120.7 |
| 141     | 81.2  | 72.0       | 108.0 |





#21

Hexachlorobenzene

Concen: 3.76 ng/mL

RT: 16.45 min Scan# 973

Delta R.T. 0.00 min

Lab File: BE091745.D

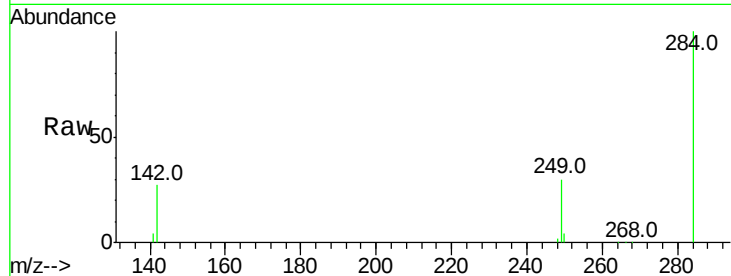
Acq: 3 May 2016 16:07

Instrument :

BNA\_E

ClientSampleId :

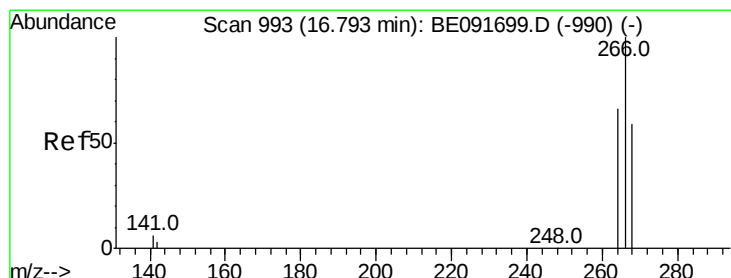
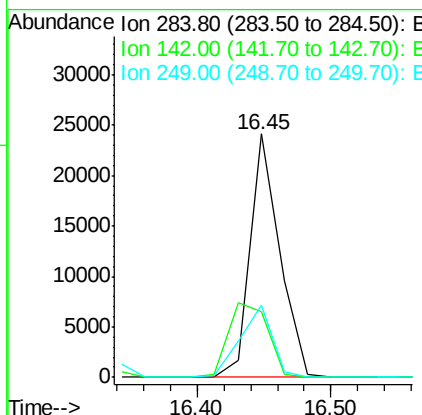
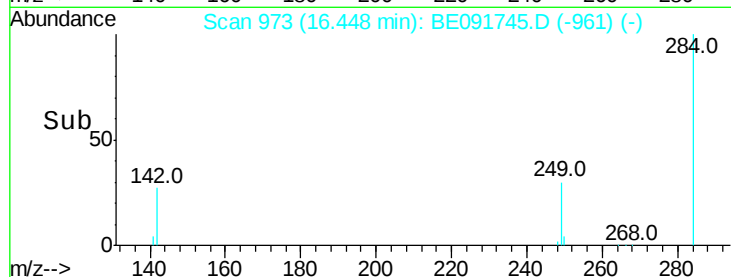
PB90269BS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 284   | Resp: | 37159 |
| Ion Ratio | Lower | Upper |       |
| 284       | 100   |       |       |
| 142       | 39.9  | 32.2  | 48.2  |
| 249       | 31.3  | 25.4  | 38.2  |

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#22

Pentachlorophenol

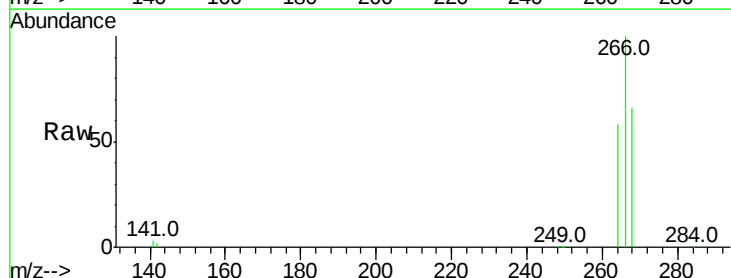
Concen: 6.88 ng/mL

RT: 16.79 min Scan# 993

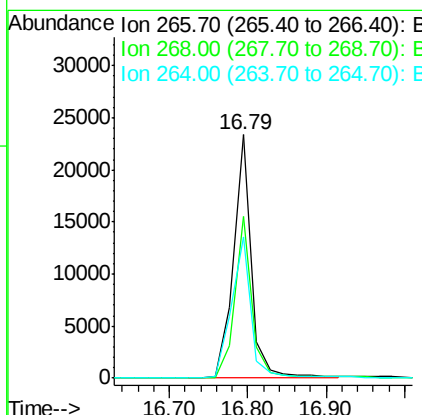
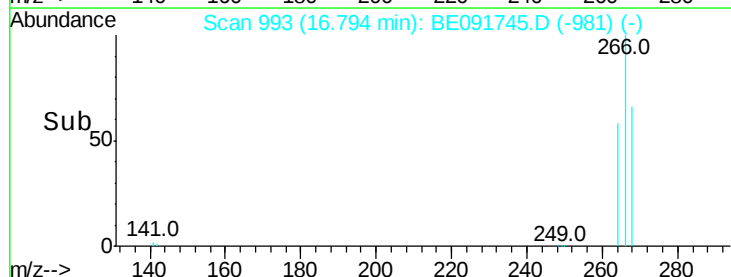
Delta R.T. 0.00 min

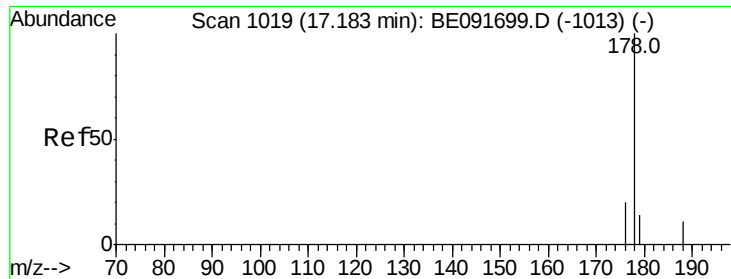
Lab File: BE091745.D

Acq: 3 May 2016 16:07



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 36739 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 268       | 66.3  | 58.2  | 87.2  |
| 264       | 58.2  | 56.2  | 84.4  |





#23

Phenanthrene

Concen: 3.61 ng

RT: 17.18 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

Instrument :

BNA\_E

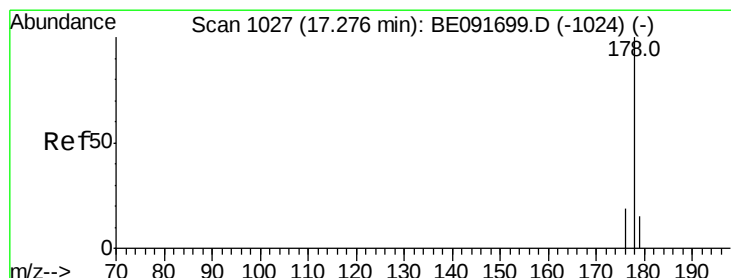
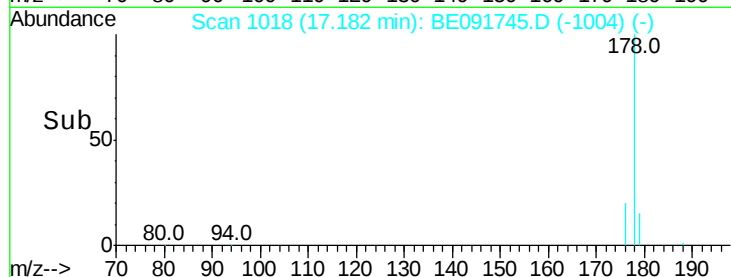
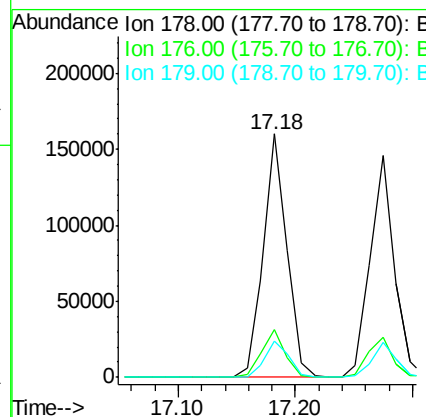
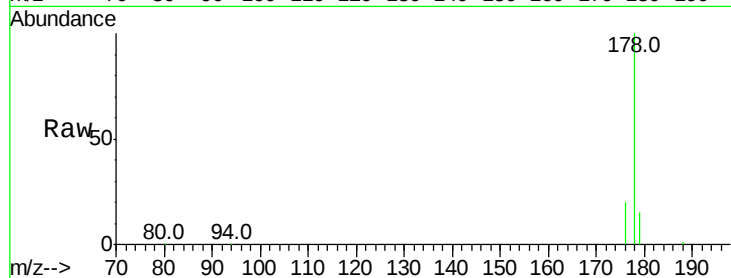
ClientSampleId :

PB90269BS

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 225715    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.6  | 15.3 22.9 |
| 179         | 15.5  | 12.6 18.8 |

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#24

Anthracene

Concen: 3.76 ng

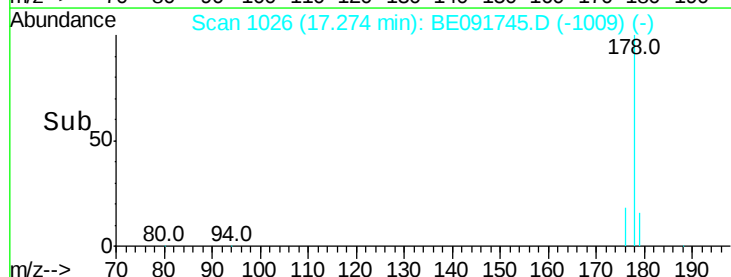
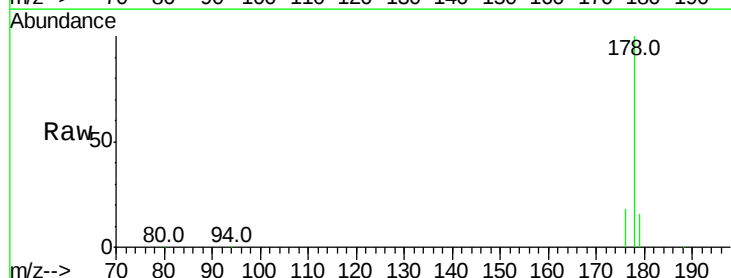
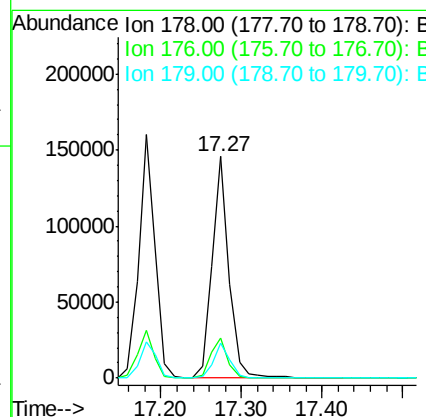
RT: 17.27 min Scan# 1026

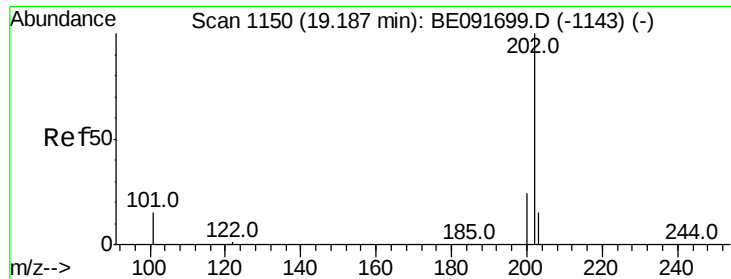
Delta R.T. -0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 211663    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.8  | 14.6 21.8 |
| 179         | 15.2  | 11.8 17.6 |





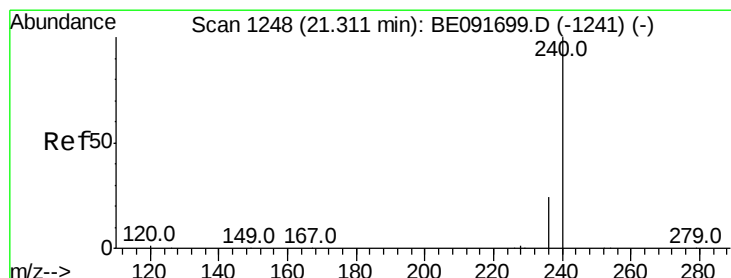
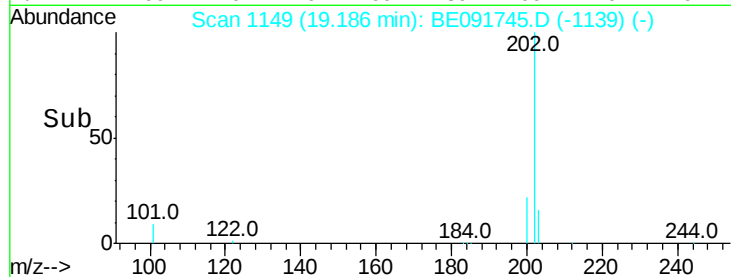
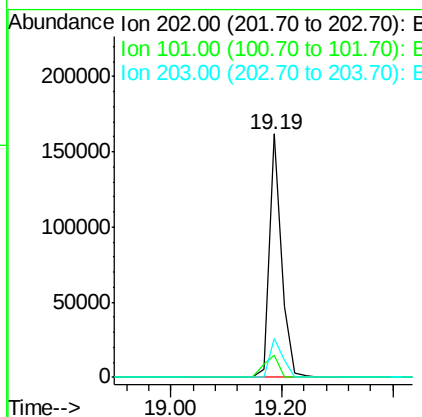
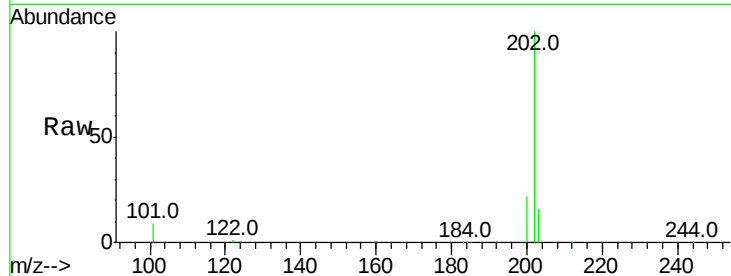
#25  
Fluoranthene  
Concen: 3.87 ng  
RT: 19.19 min Scan# 1149  
Delta R.T. -0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.9  | 11.0       | 16.6# |
| 203     | 17.5  | 13.9       | 20.9  |

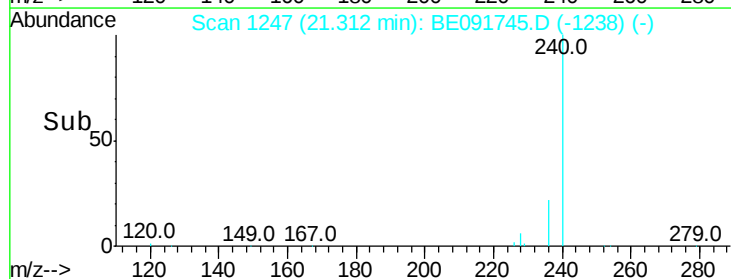
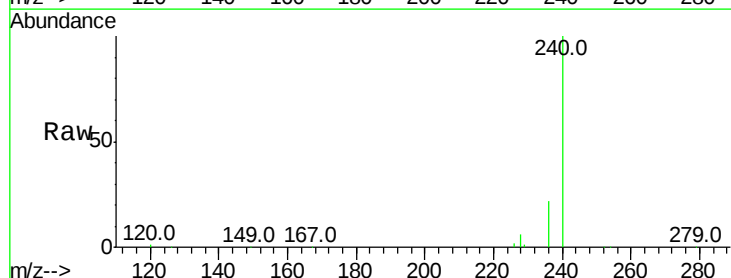
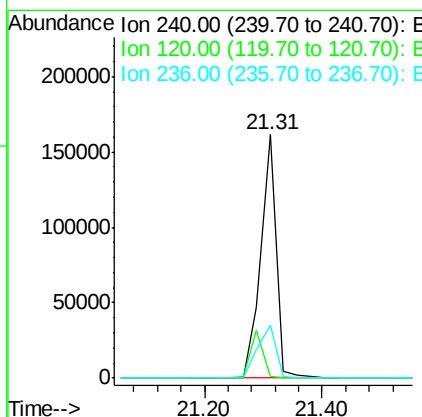
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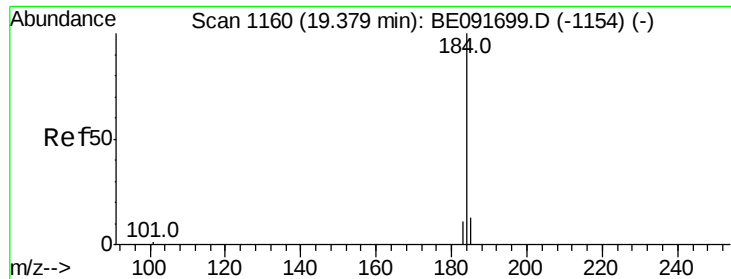
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#26  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.31 min Scan# 1247  
Delta R.T. 0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 0.8   | 11.0       | 16.4# |
| 236     | 21.7  | 21.7       | 32.5  |





#27

Benzidine

Concen: 1.10 ng

RT: 19.38 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

Instrument :

BNA\_E

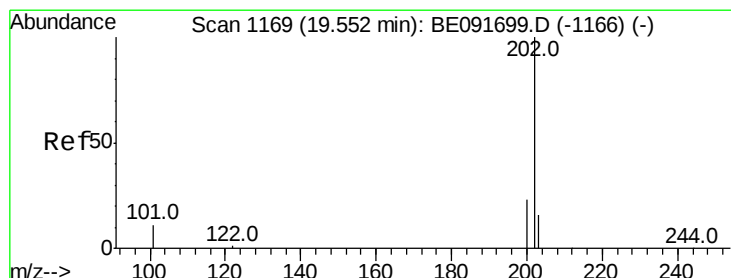
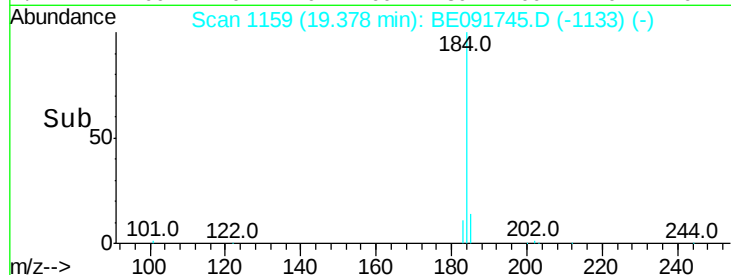
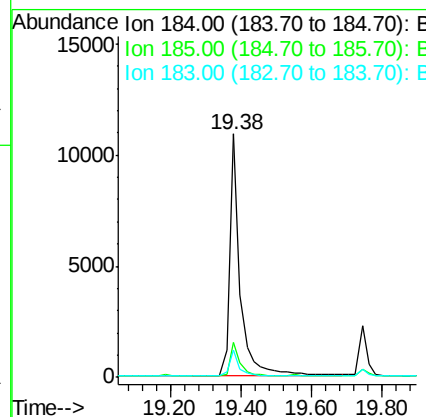
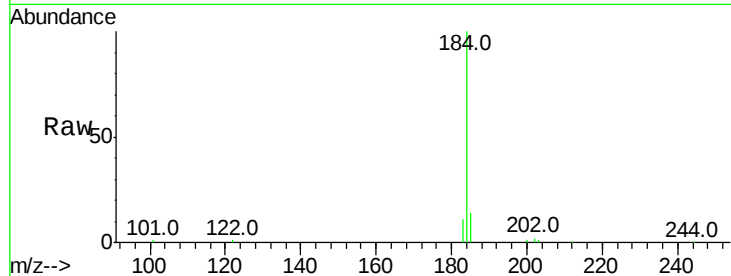
ClientSampleId :

PB90269BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 14.2  | 22.3  | 33.5# |
| 183     | 11.2  | 16.4  | 24.6# |

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#28

Pyrene

Concen: 4.18 ng

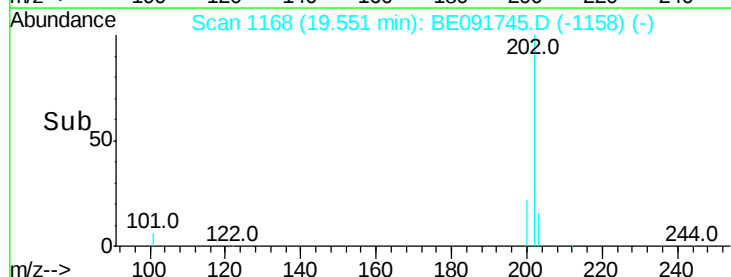
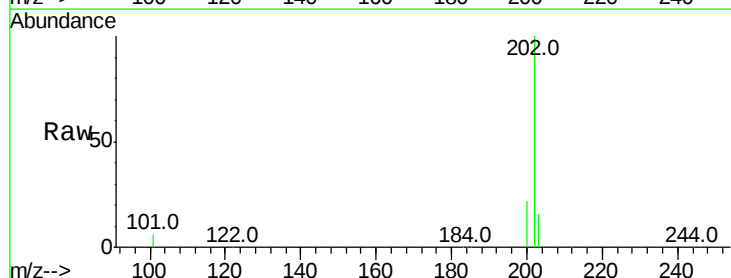
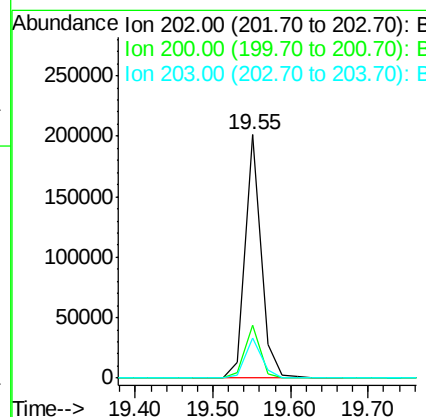
RT: 19.55 min Scan# 1168

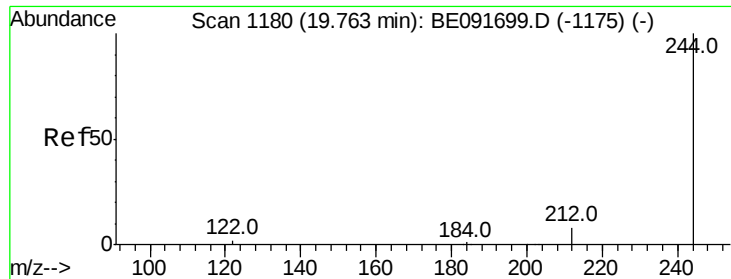
Delta R.T. -0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.4  | 16.8  | 25.2  |
| 203     | 17.6  | 14.0  | 21.0  |





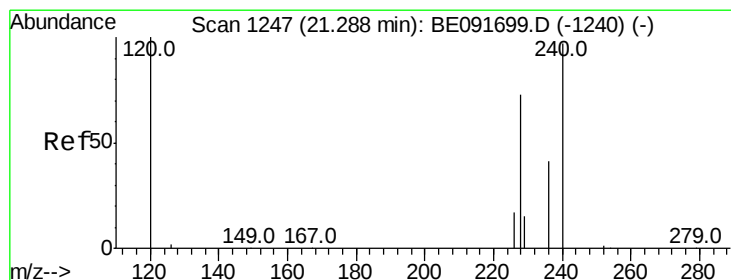
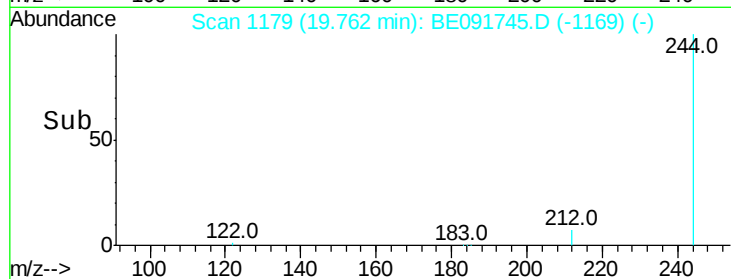
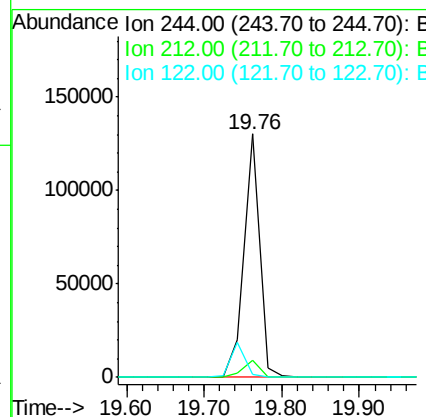
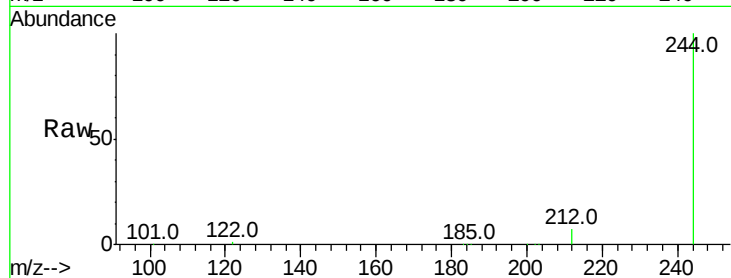
#29  
 Terphenyl-d14  
 Concen: 3.87 ng  
 RT: 19.76 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: BE091745.D  
 Acq: 3 May 2016 16:07

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90269BS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.3   | 6.9        | 10.3  |
| 122     | 1.2   | 11.0       | 16.4  |

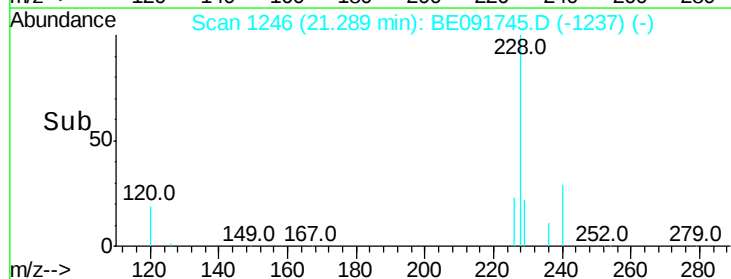
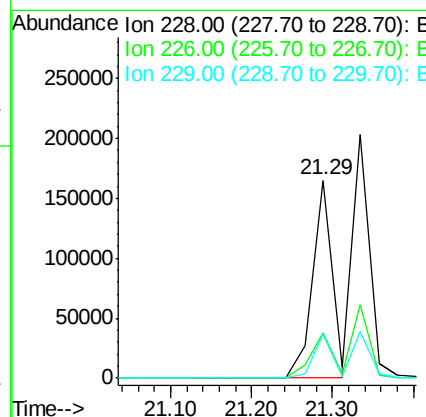
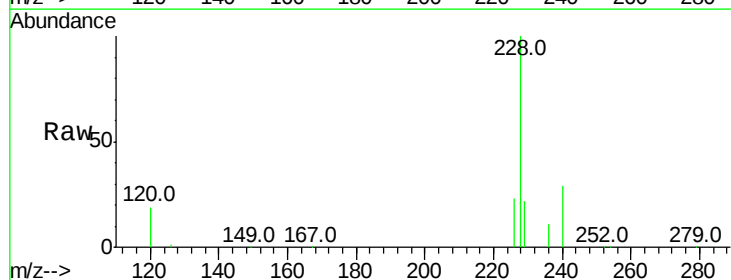
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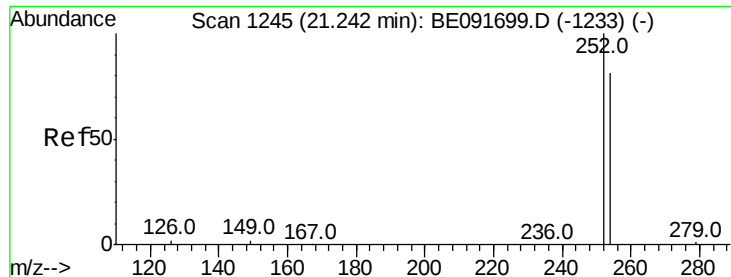
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#30  
 Benzo(a)anthracene  
 Concen: 3.79 ng  
 RT: 21.29 min Scan# 1246  
 Delta R.T. 0.00 min  
 Lab File: BE091745.D  
 Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 23.2  | 21.0       | 31.4  |
| 229     | 22.4  | 15.7       | 23.5  |





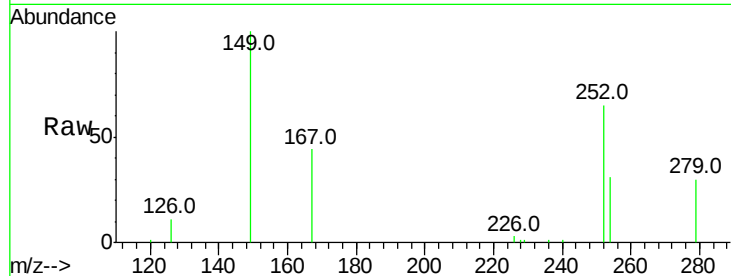
#31  
 3,3'-Dichlorobenzidine  
 Concen: 0.46 ng  
 RT: 21.22 min Scan# 1243  
 Delta R.T. -0.02 min  
 Lab File: BE091745.D  
 Acq: 3 May 2016 16:07

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90269BS

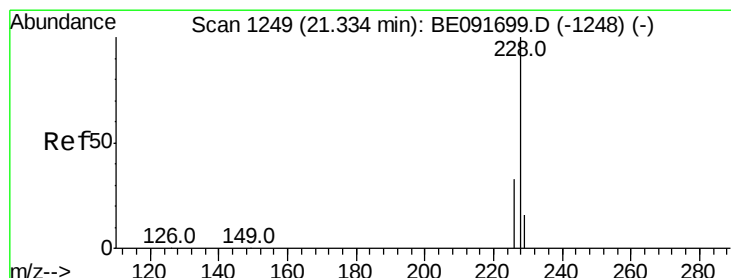
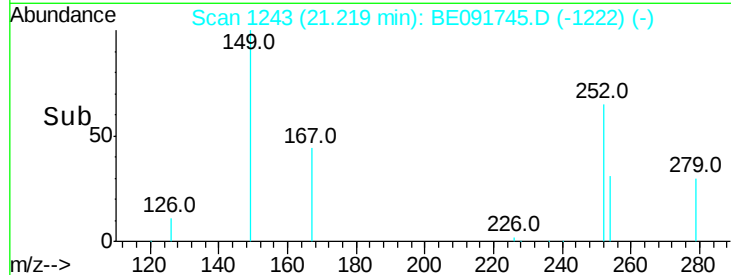
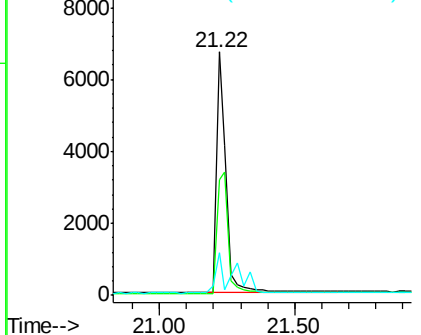
Tot Ion:252 Resp: 17079  
 Ion Ratio Lower Upper  
 252 100  
 254 47.7 51.1 76.7#  
 126 17.6 12.6 18.8

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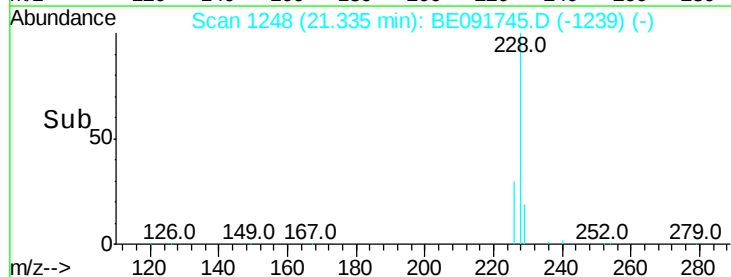
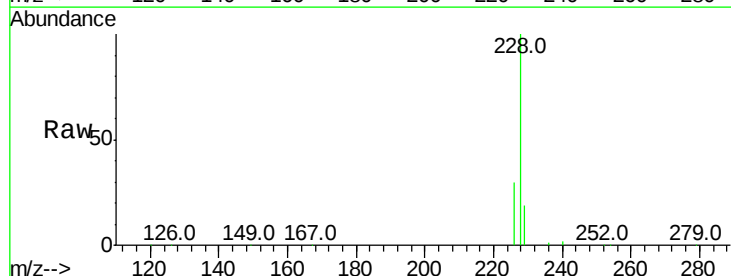
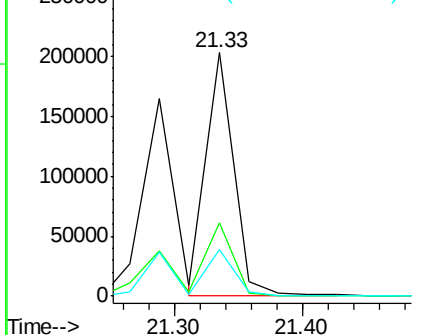
Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E



#32  
 Chrysene  
 Concen: 4.00 ng m  
 RT: 21.33 min Scan# 1248  
 Delta R.T. 0.00 min  
 Lab File: BE091745.D  
 Acq: 3 May 2016 16:07

Tgt Ion:228 Resp: 304626  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 24.0 36.0  
 229 18.9 15.9 23.9

Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E





#33

Bis(2-ethylhexyl)phthalate

Concen: 3.82 ng

RT: 21.20 min Scan# 1242

Delta R.T. -0.02 min

Lab File: BE091745.D

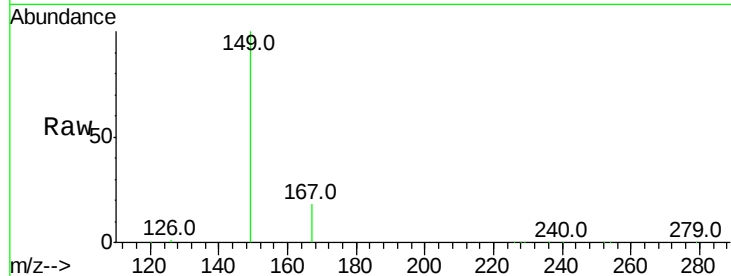
Acq: 3 May 2016 16:07

Instrument :

BNA\_E

ClientSampleId :

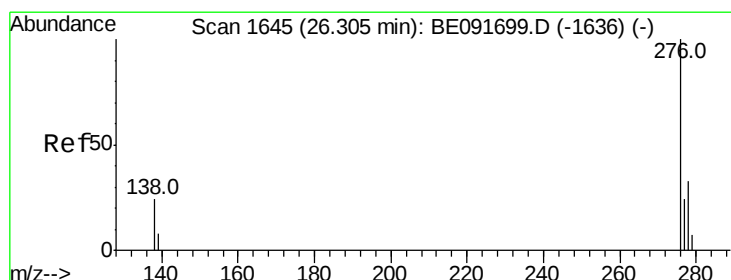
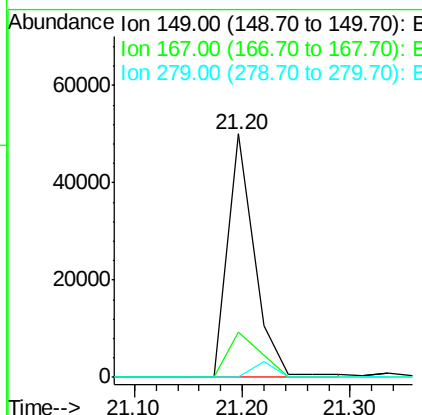
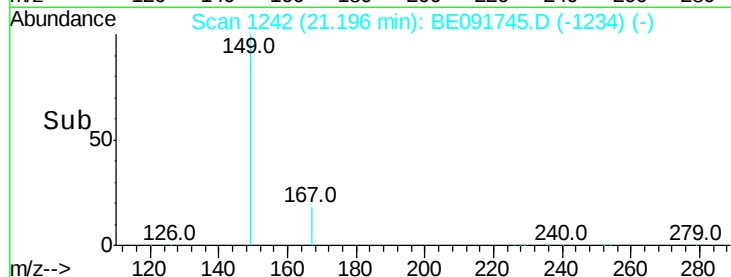
PB90269BS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 84849 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 22.7  | 19.5  | 29.3  |
| 279       | 0.0   | 10.0  | 15.0# |

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5/4/2016 6:49:45 PM



#34

Indeno(1,2,3-cd)pyrene

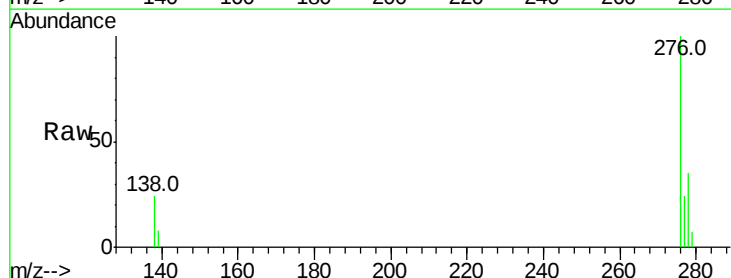
Concen: 4.05 ng

RT: 26.29 min Scan# 1643

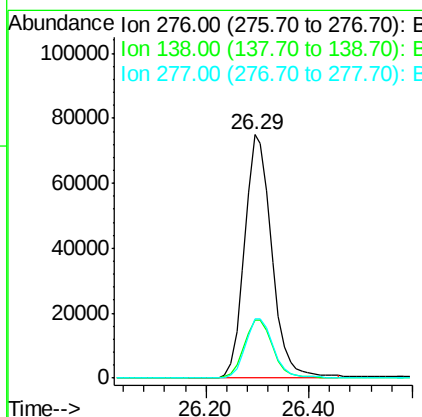
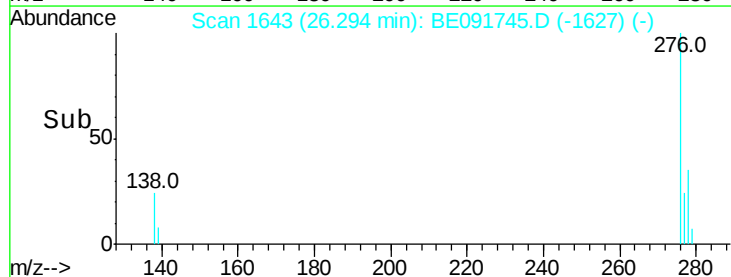
Delta R.T. -0.01 min

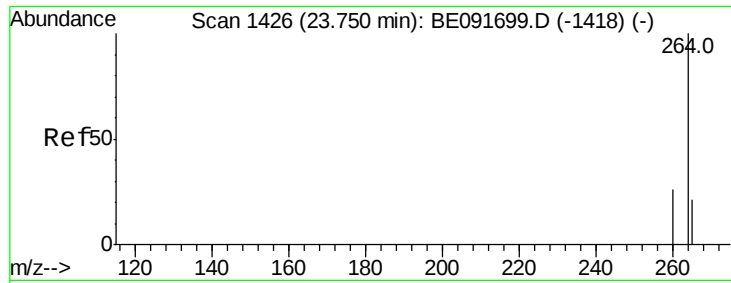
Lab File: BE091745.D

Acq: 3 May 2016 16:07



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 274641 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 25.2  | 23.4  | 35.2   |
| 277       | 24.9  | 19.8  | 29.8   |





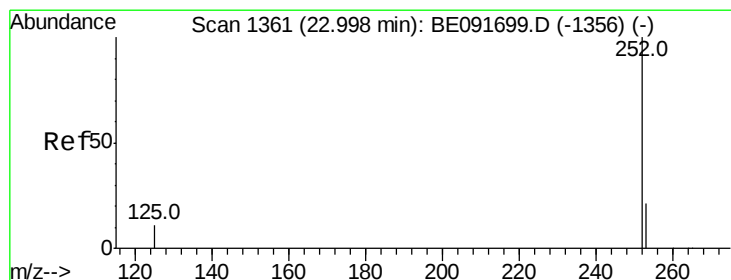
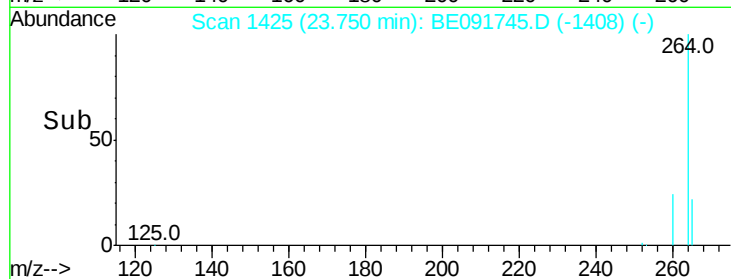
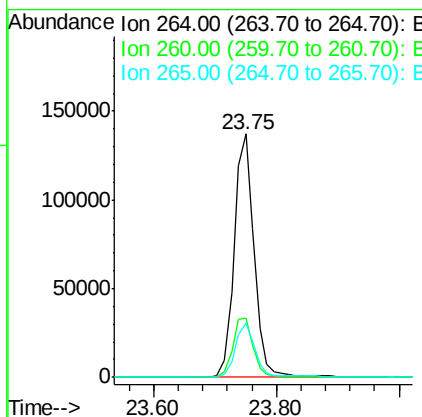
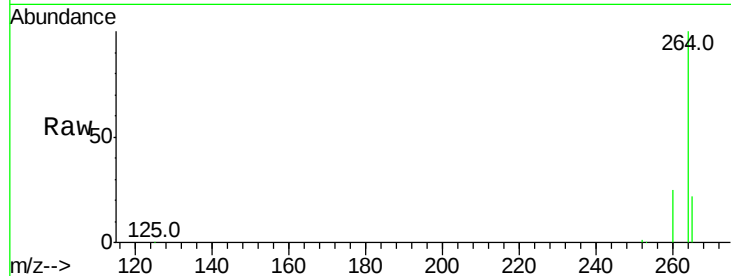
#35  
Pervlene-d12  
Concen: 5.00 ng  
RT: 23.75 min Scan# 1425  
Delta R.T. 0.00 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 264     | 100   |      |       |       |
| 260     | 24.5  | 20.0 | 30.0  |       |
| 265     | 22.1  | 17.5 | 26.3  |       |

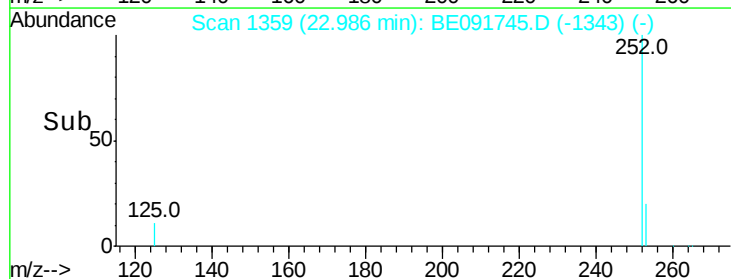
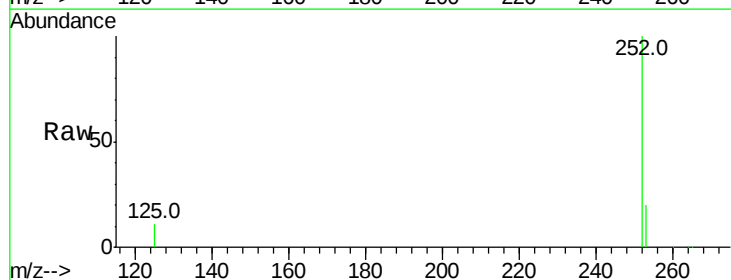
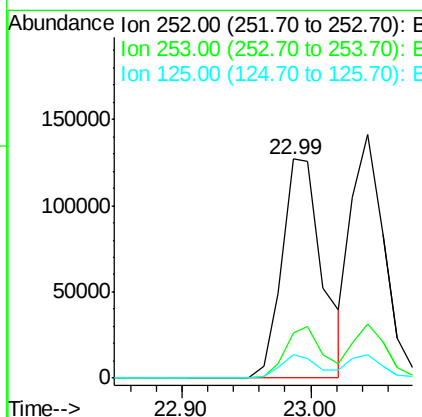
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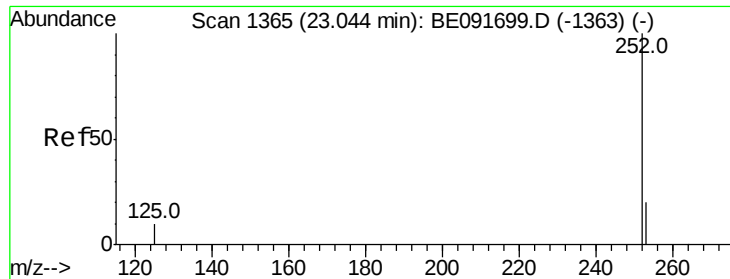
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#36  
Benzo(b)fluoranthene  
Concen: 3.83 ng  
RT: 22.99 min Scan# 1359  
Delta R.T. -0.01 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 20.4  | 17.4 | 26.0  |       |
| 125     | 10.7  | 10.2 | 15.2  |       |





#37

Benzo(k)fluoranthene

Concen: 3.53 ng

RT: 23.04 min Scan# 1364

Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

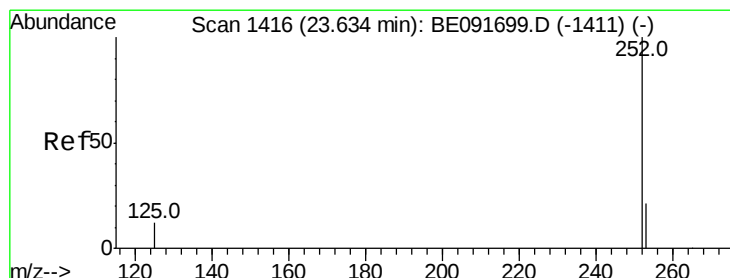
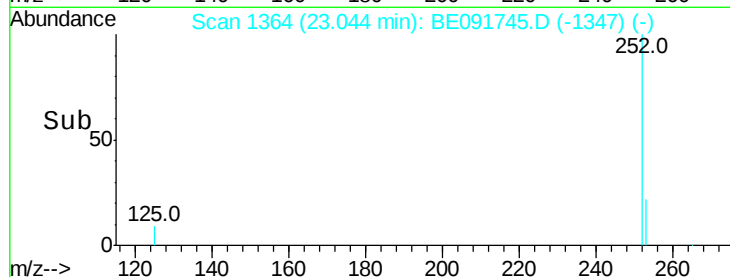
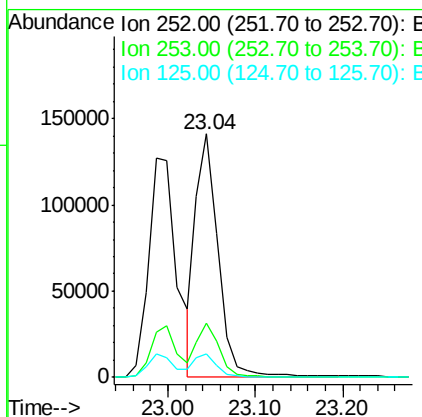
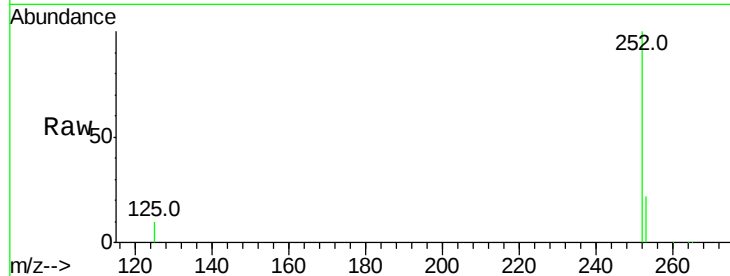
Instrument :  
BNA\_E

ClientSampleId :  
PB90269BS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.1  | 17.6       | 26.4  |
| 125     | 9.6   | 9.9        | 14.9  |

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#38

Benzo(a)pyrene

Concen: 3.65 ng

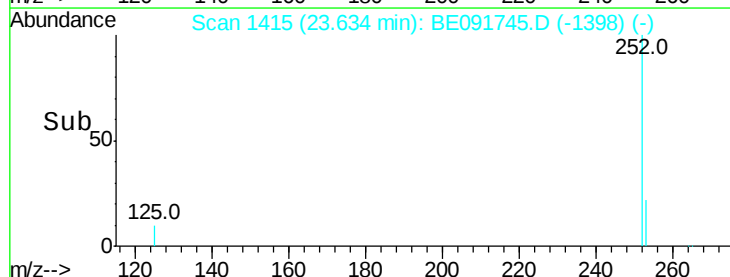
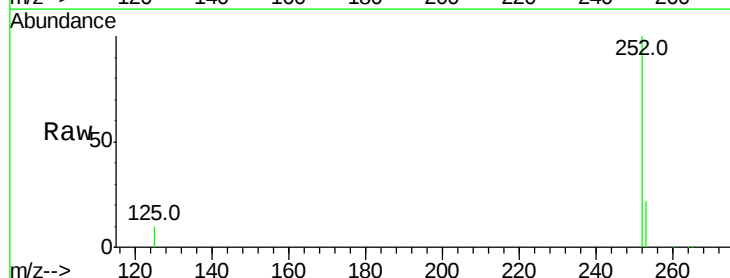
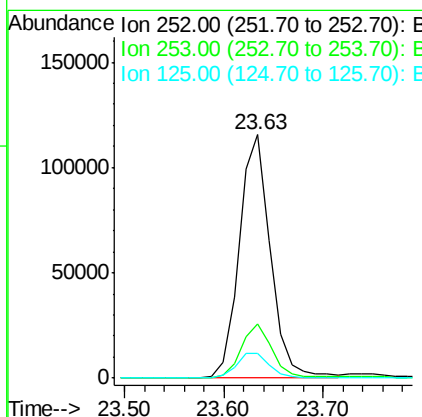
RT: 23.63 min Scan# 1415

Delta R.T. 0.00 min

Lab File: BE091745.D

Acq: 3 May 2016 16:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.4  | 18.1       | 27.1  |
| 125     | 10.4  | 11.0       | 16.4  |





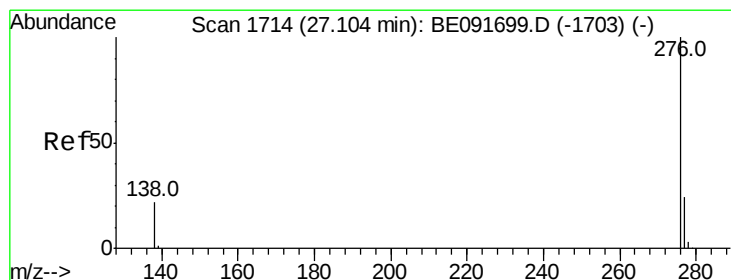
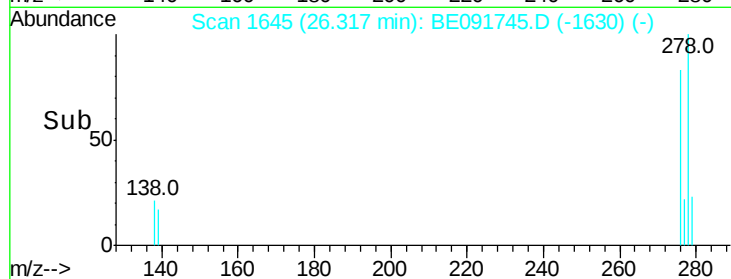
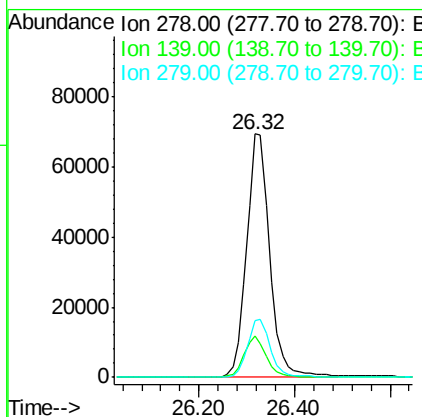
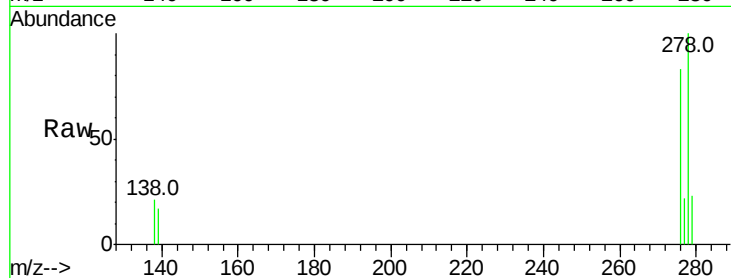
#39  
Dibenzo(a,h)anthracene  
Concen: 3.59 ng  
RT: 26.32 min Scan# 1645  
Delta R.T. -0.02 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

Instrument :  
BNA\_E  
ClientSampleId :  
PB90269BS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 278   | Resp: | 232272 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 17.0  | 16.0  | 24.0   |
| 279       | 23.2  | 19.4  | 29.2   |

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#40  
Benzo(g,h,i)perylene  
Concen: 3.53 ng  
RT: 27.09 min Scan# 1712  
Delta R.T. -0.01 min  
Lab File: BE091745.D  
Acq: 3 May 2016 16:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 232172 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.0  | 18.6  | 28.0   |
| 138       | 20.1  | 20.4  | 30.6#  |

