

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061616\  
 Data File : BE091936.D  
 Acq On : 16 Jun 2016 13:12  
 Operator : UM/SJ  
 Sample : H3359-01MS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OM-SPN-001-160531MS

Manual Integrations  
 APPROVED

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 6/16/2016 6:51:10 PM

Quant Time: Jun 16 17:34:27 2016

Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061416.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 15 12:00:38 2016

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.20  | 152  | 37126    | 5.00 | ng    | 0.00     |
| 8) Naphthalene-d8         | 10.99 | 136  | 168643   | 5.00 | ng    | 0.00     |
| 15) Acenaphthene-d10      | 14.86 | 164  | 125668   | 5.00 | ng    | 0.00     |
| 24) Phenanthrene-d10      | 17.61 | 188  | 248153   | 5.00 | ng    | 0.00     |
| 31) Chrysene-d12          | 21.76 | 240  | 419950   | 5.00 | ng    | 0.00     |
| 40) Perylene-d12          | 24.16 | 264  | 308484   | 5.00 | ng    | -0.01    |

#### System Monitoring Compounds

|                          |       |     |        |      |    |      |
|--------------------------|-------|-----|--------|------|----|------|
| 4) 2-Fluorophenol        | 5.72  | 112 | 42432  | 5.85 | ng | 0.00 |
| 5) Phenol-d6             | 7.37  | 99  | 63106  | 5.34 | ng | 0.02 |
| 9) Nitrobenzene-d5       | 9.37  | 82  | 36404  | 3.13 | ng | 0.00 |
| 16) 2,4,6-Tribromophenol | 16.35 | 330 | 19226  | 5.90 | ng | 0.00 |
| 17) 2-Fluorobiphenyl     | 13.49 | 172 | 90096  | 2.82 | ng | 0.00 |
| 34) Terphenyl-d14        | 20.22 | 244 | 129657 | 2.52 | ng | 0.00 |

#### Target Compounds

|                                |       |     |         |      |    | Qvalue |
|--------------------------------|-------|-----|---------|------|----|--------|
| 2) 1,4-Dioxane                 | 3.47  | 88  | 9866    | 1.88 | ng | 97     |
| 3) n-Nitrosodimethylamine      | 3.80  | 42  | 15454   | 2.60 | ng | 91     |
| 6) bis(2-Chloroethyl)ether     | 7.61  | 93  | 28677   | 2.70 | ng | 97     |
| 7) n-Nitroso-di-n-propylamine  | 9.00  | 70  | 24155   | 2.44 | ng | # 97   |
| 10) Nitrobenzene               | 9.40  | 77  | 34025   | 2.60 | ng | # 100  |
| 11) bis(2-Chloroethoxy)methane | 10.42 | 93  | 37217   | 2.52 | ng | # 19   |
| 12) Naphthalene                | 11.04 | 128 | 98003   | 2.66 | ng | # 94   |
| 13) Hexachlorobutadiene        | 11.34 | 225 | 15076   | 2.53 | ng | 99     |
| 14) 2-Methylnaphthalene        | 12.68 | 142 | 69430   | 2.78 | ng | 94     |
| 18) Acenaphthylene             | 14.56 | 152 | 347661  | 2.73 | ng | # 61   |
| 19) 2,6-Dinitrotoluene         | 14.44 | 165 | 66424   | 2.51 | ng | # 38   |
| 20) Acenaphthene               | 14.92 | 154 | 93762   | 2.67 | ng | # 1    |
| 21) 2,4-Dinitrotoluene         | 15.22 | 165 | 72620   | 2.94 | ng | # 78   |
| 22) Fluorene                   | 15.90 | 166 | 89887   | 2.57 | ng | 99     |
| 23) 4-Chlorophenyl-phenylether | 15.90 | 204 | 43052   | 2.50 | ng | 99     |
| 25) 4-Bromophenyl-phenylether  | 16.78 | 248 | 25889   | 2.70 | ng | 96     |
| 26) Hexachlorobenzene          | 16.90 | 284 | 26244   | 2.67 | ng | 98     |
| 27) Pentachlorophenol          | 17.25 | 266 | 24585   | 5.27 | ng | # 89   |
| 28) Phenanthrene               | 17.64 | 178 | 161249  | 2.60 | ng | 99     |
| 29) Anthracene                 | 17.73 | 178 | 150997  | 2.75 | ng | 100    |
| 30) Fluoranthene               | 19.65 | 202 | 721607  | 2.72 | ng | # 87   |
| 33) Pyrene                     | 19.99 | 202 | 744722  | 2.61 | ng | # 64   |
| 35) Benzo(a)anthracene         | 21.73 | 228 | 218495  | 3.31 | ng | # 90   |
| 36) 3,3'-Dichlorobenzidine     | 21.67 | 252 | 16410   | 1.53 | ng | # 64   |
| 37) Chrysene                   | 21.79 | 228 | 267941m | 2.78 | ng |        |
| 38) Bis(2-ethylhexyl)phthalate | 21.64 | 149 | 257987  | 4.17 | ng | # 100  |
| 39) Indeno(1,2,3-cd)pyrene     | 26.68 | 276 | 919515  | 2.79 | ng | 98     |
| 41) Benzo(b)fluoranthene       | 23.42 | 252 | 216253  | 2.73 | ng | 98     |
| 42) Benzo(k)fluoranthene       | 23.47 | 252 | 212591  | 2.93 | ng | 96     |
| 43) Benzo(a)pyrene             | 24.05 | 252 | 200123  | 2.89 | ng | 95     |
| 44) Dibenzo(a,h)anthracene     | 26.70 | 278 | 192777  | 2.86 | ng | 98     |
| 45) Benzo(g,h,i)perylene       | 27.45 | 276 | 797540  | 2.87 | ng | 97     |

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Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 15 12:00:38 2016  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

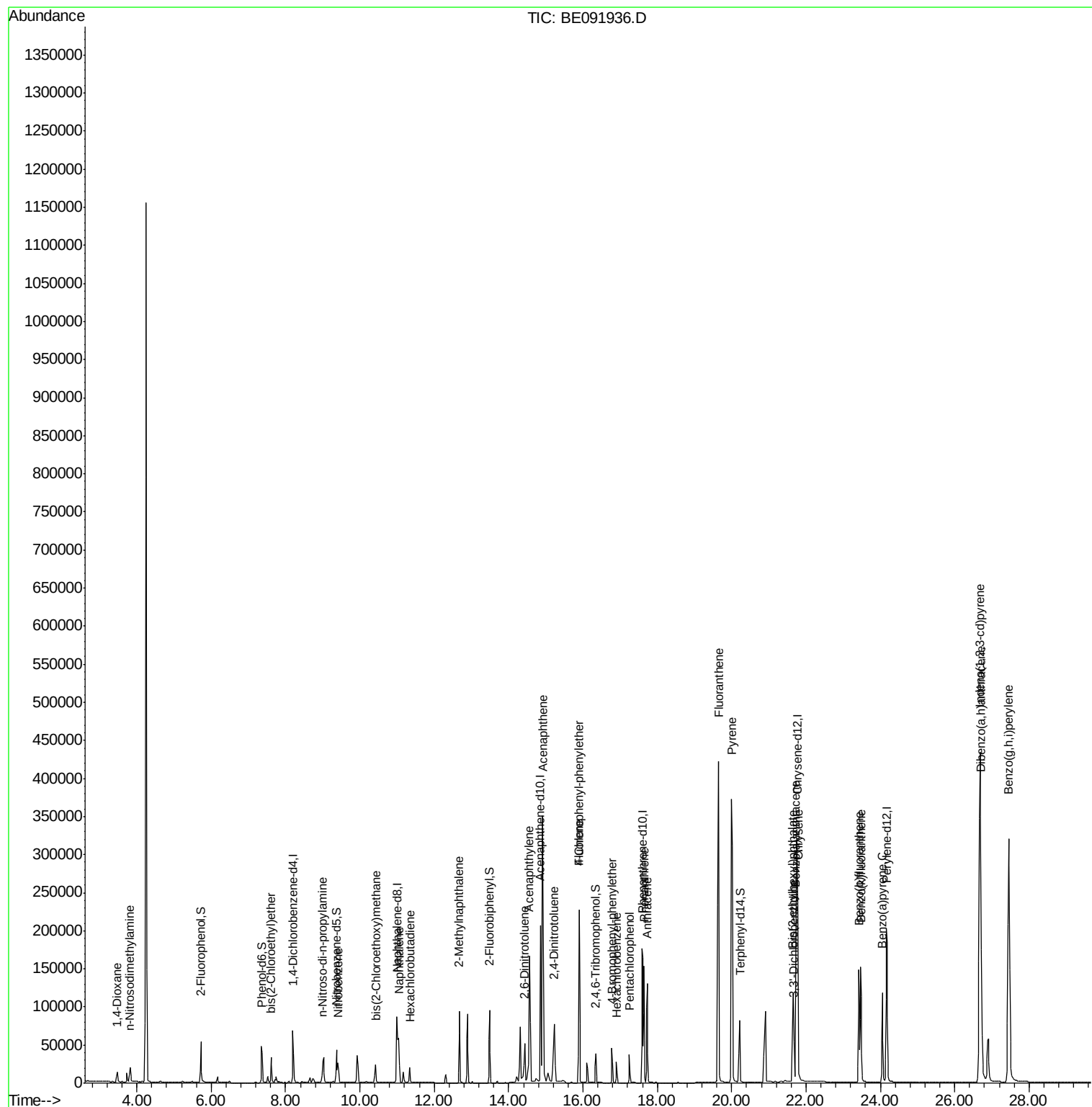
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061616\  
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Sample : H3359-01MS  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

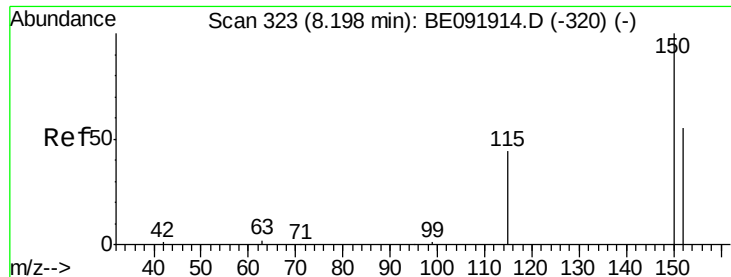
Instrument :  
BNA\_E  
ClientSampleId :  
OM-SPN-001-160531MS

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QLast Update : Wed Jun 15 12:00:38 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. -0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

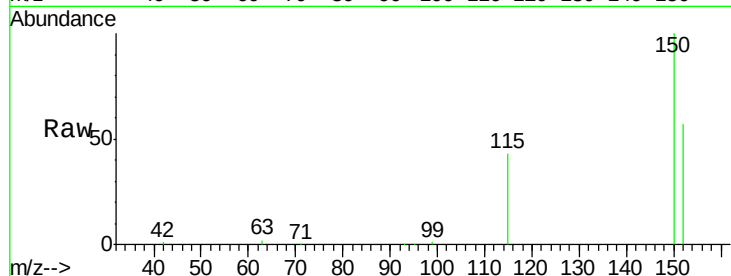
ClientSampleId :

OM-SPN-001-160531MS

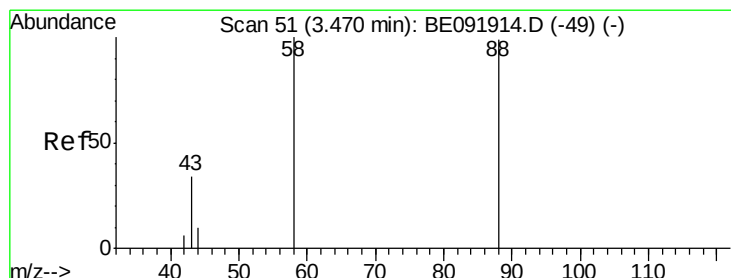
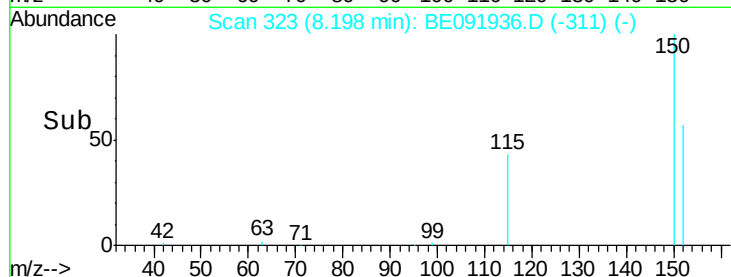
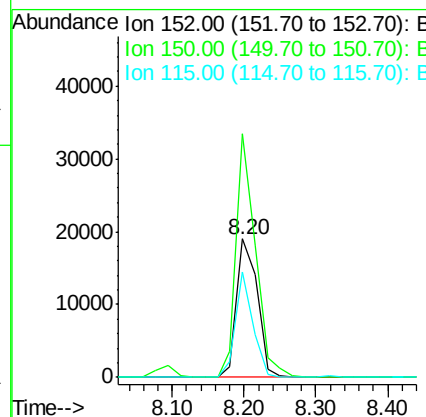
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 37126 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 176.0 | 123.9 | 185.9 |
| 115       | 76.4  | 48.3  | 72.5# |



#2

1,4-Dioxane

Concen: 1.88 ng

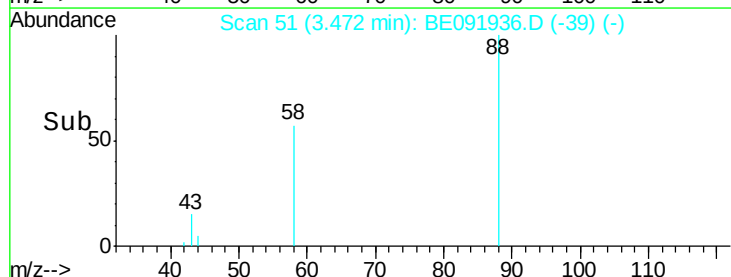
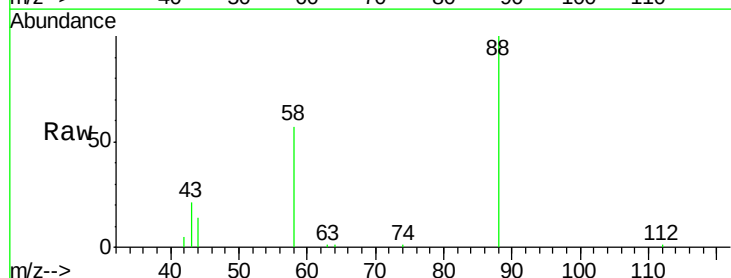
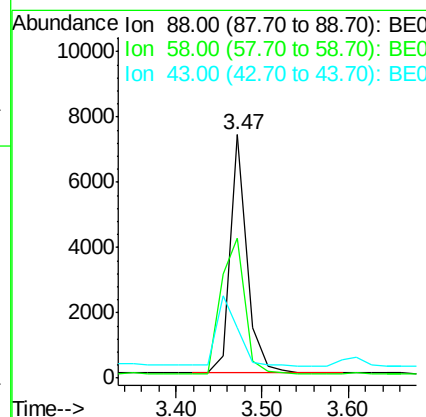
RT: 3.47 min Scan# 51

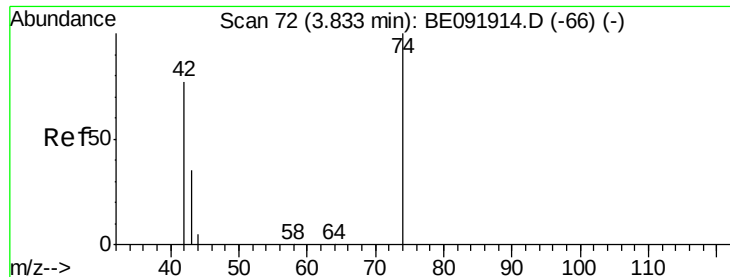
Delta R.T. 0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 88    | Resp: | 9866 |
| Ion Ratio | Lower | Upper |      |
| 88        | 100   |       |      |
| 58        | 81.9  | 63.0  | 94.4 |
| 43        | 36.8  | 29.1  | 43.7 |





#3

n-Nitrosodimethylamine

Concen: 2.60 ng

RT: 3.80 min Scan# 70

Delta R.T. 0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

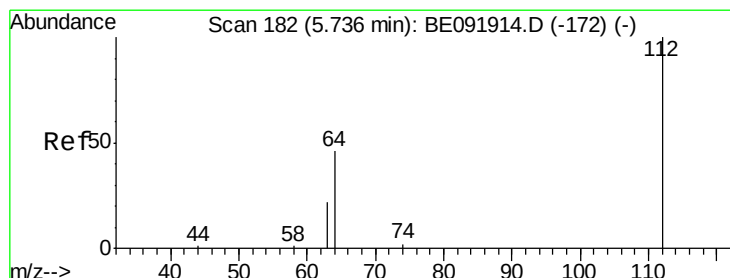
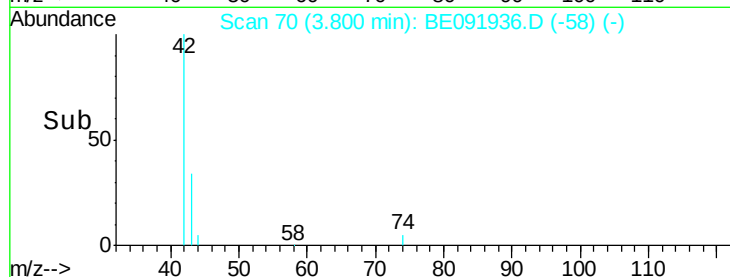
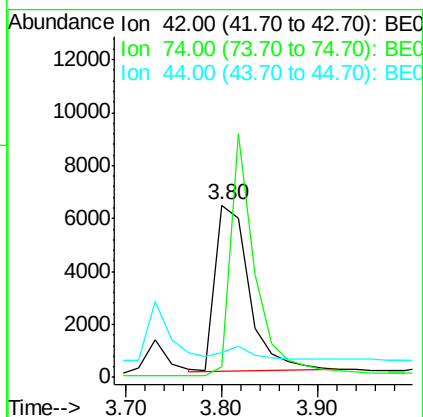
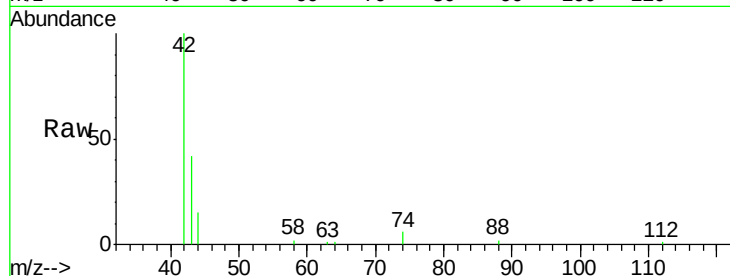
ClientSampleId :

OM-SPN-001-160531MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 15454 |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 106.8 | 93.4  | 140.0 |
| 44        | 7.4   | 5.0   | 7.6   |

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#4

2-Fluorophenol

Concen: 5.85 ng

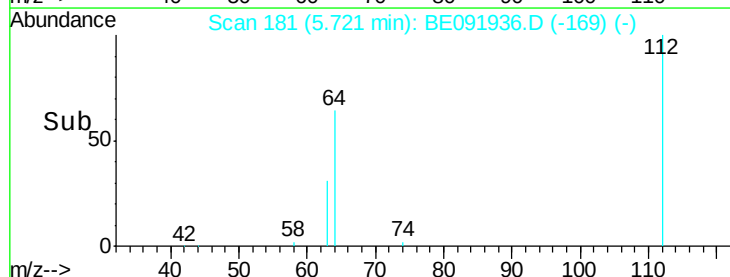
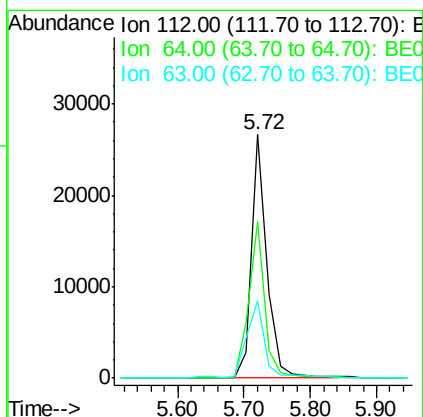
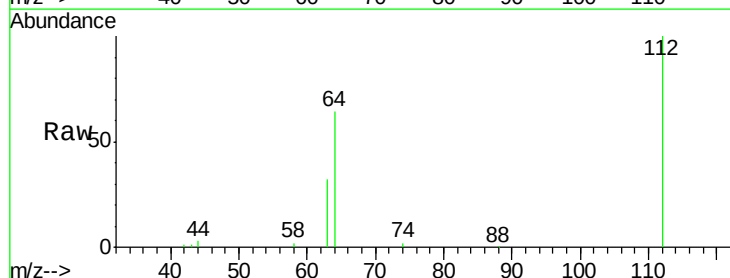
RT: 5.72 min Scan# 181

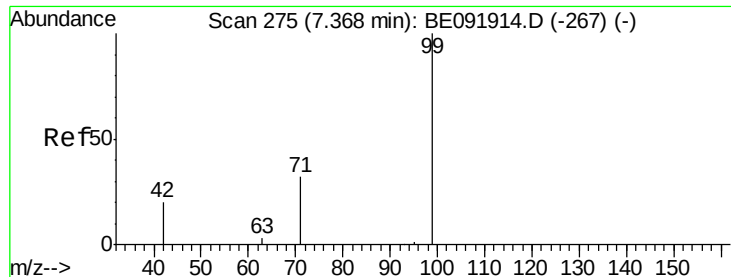
Delta R.T. 0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 42432 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 66.9  | 53.7  | 80.5  |
| 63        | 36.2  | 29.5  | 44.3  |





#5

Phenol-d6

Concen: 5.34 ng

RT: 7.37 min Scan# 275

Delta R.T. 0.02 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

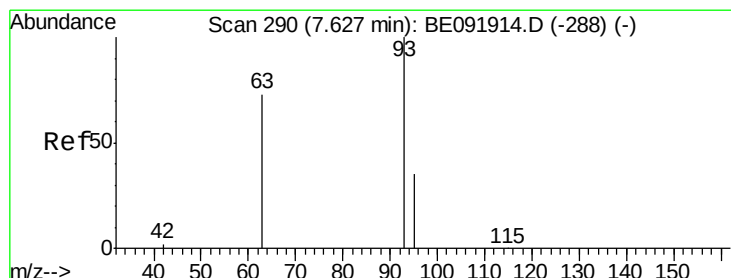
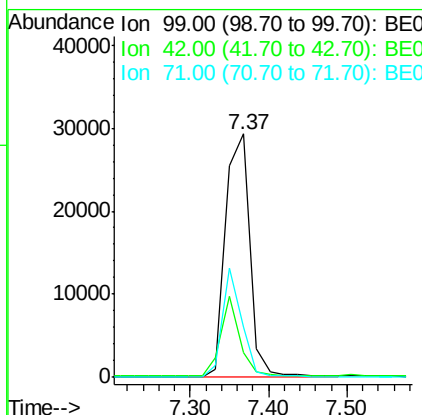
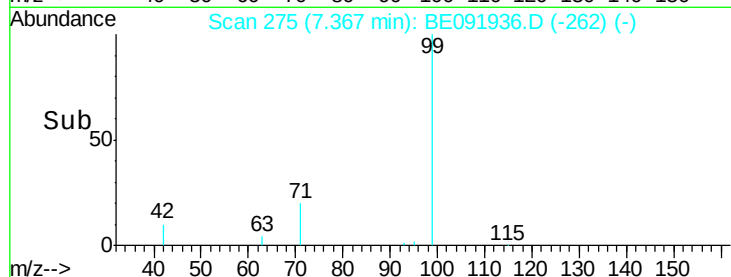
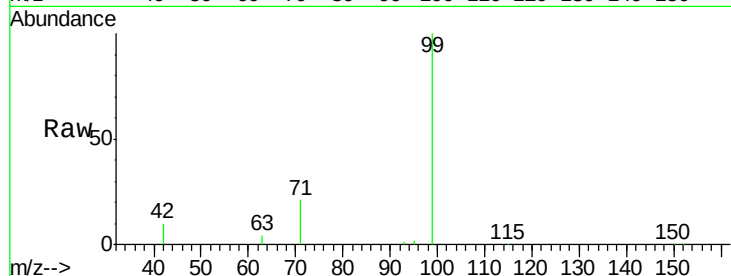
ClientSampleId :

OM-SPN-001-160531MS

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 99      | 100   | 63106 |       |       |
| 42      | 25.4  | 19.6  | 29.4  |       |
| 71      | 35.5  | 28.1  | 42.1  |       |

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#6

bis(2-Chloroethyl)ether

Concen: 2.70 ng

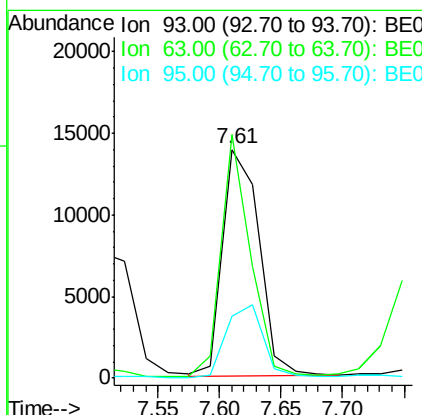
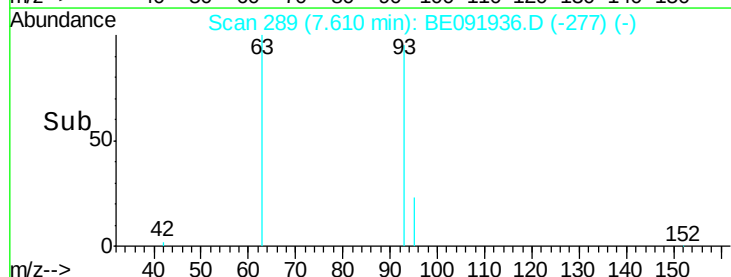
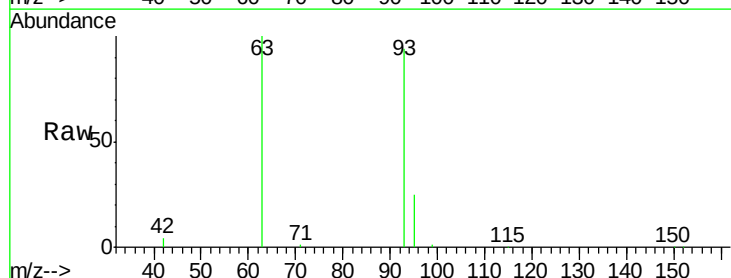
RT: 7.61 min Scan# 289

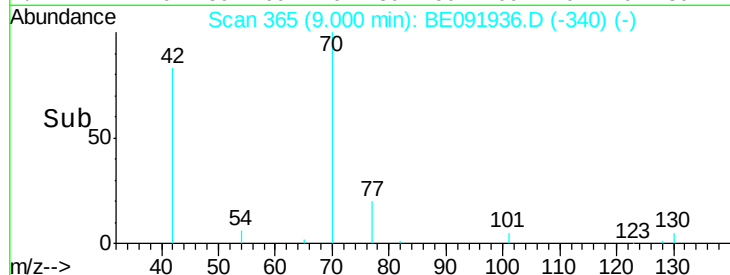
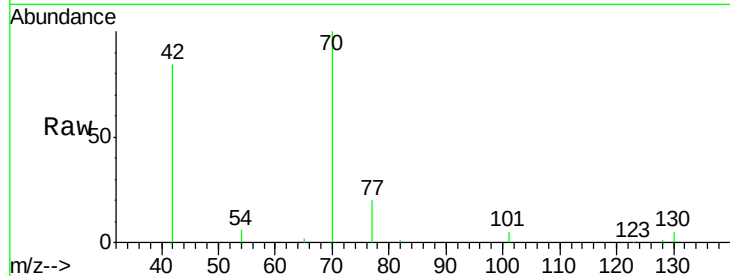
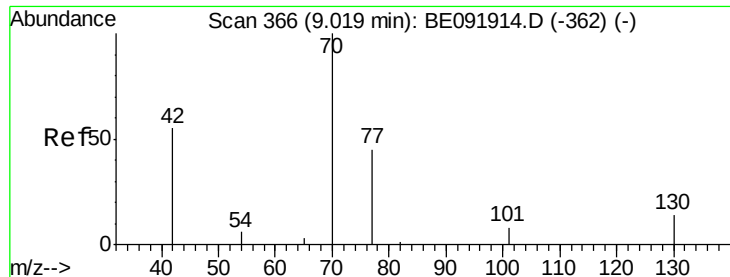
Delta R.T. -0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 93      | 100   | 28677 |       |       |
| 63      | 86.0  | 66.2  | 99.4  |       |
| 95      | 32.7  | 25.5  | 38.3  |       |





#7

n-Nitroso-di-n-propylamine

Concen: 2.44 ng

RT: 9.00 min Scan# 365

Delta R.T. 0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

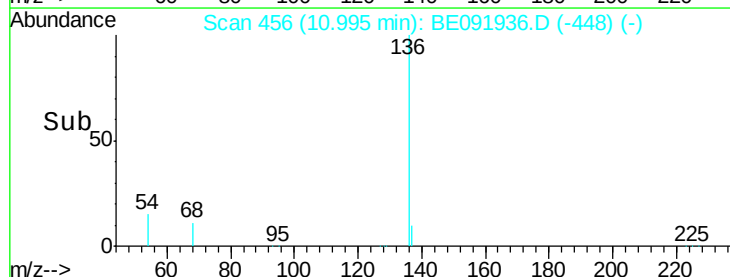
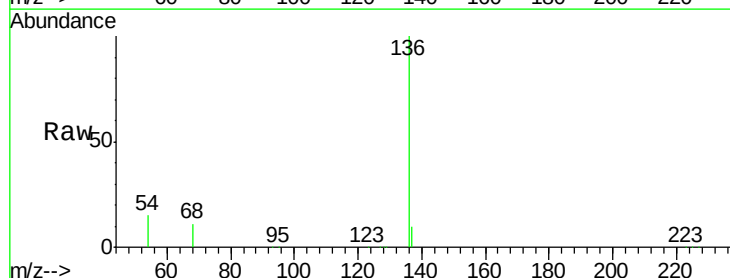
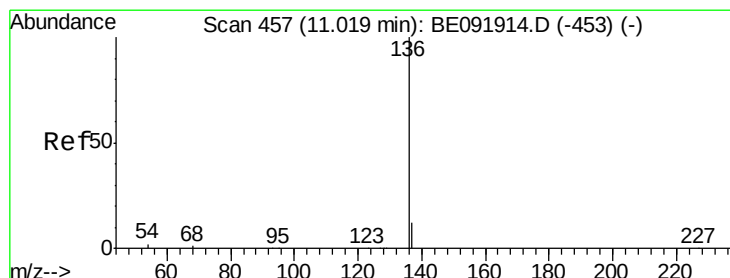
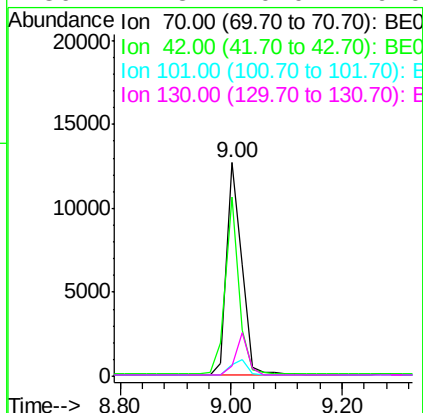
ClientSampleId :

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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 75.6  | 58.4  | 87.6  |
| 101     | 8.3   | 6.4   | 9.6   |
| 130     | 17.3  | 0.0   | 0.0#  |



#8

Naphthalene-d8

Concen: 5.00 ng

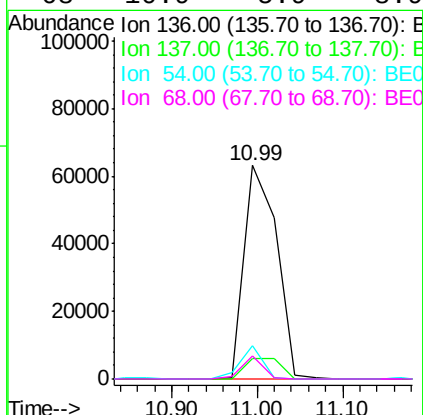
RT: 10.99 min Scan# 456

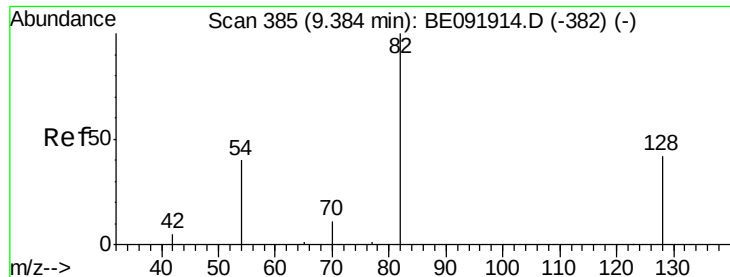
Delta R.T. 0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 9.6   | 8.3   | 12.5  |
| 54      | 15.5  | 8.2   | 12.4# |
| 68      | 10.9  | 5.9   | 8.9#  |





#9

Nitrobenzene-d5

Concen: 3.13 ng

RT: 9.37 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

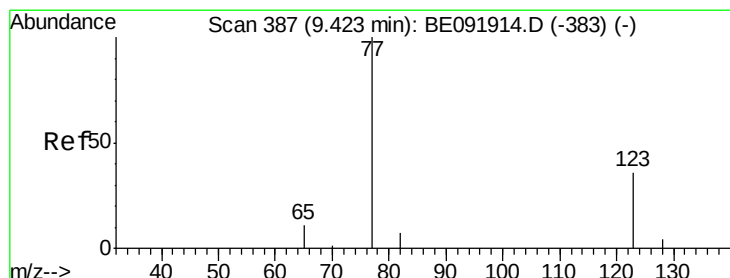
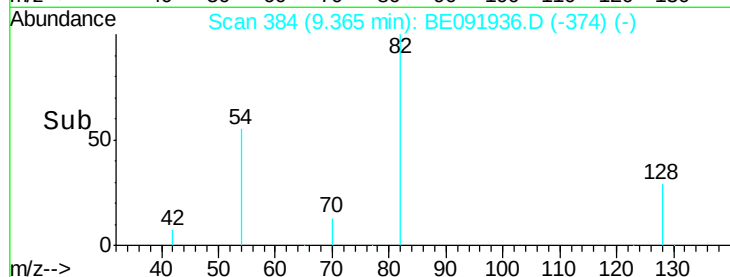
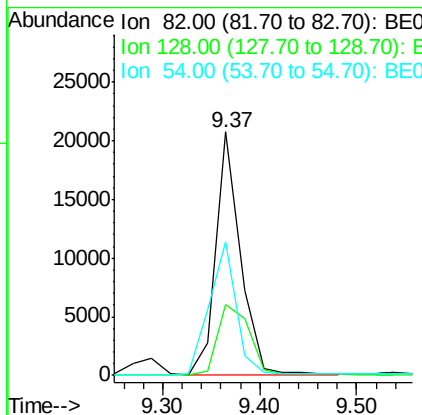
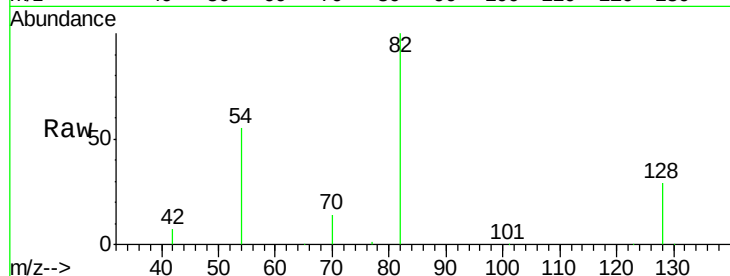
ClientSampleId :

OM-SPN-001-160531MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 36404 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 29.3  | 39.5  | 59.3# |
| 54        | 55.0  | 30.3  | 45.5# |

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#10

Nitrobenzene

Concen: 2.60 ng

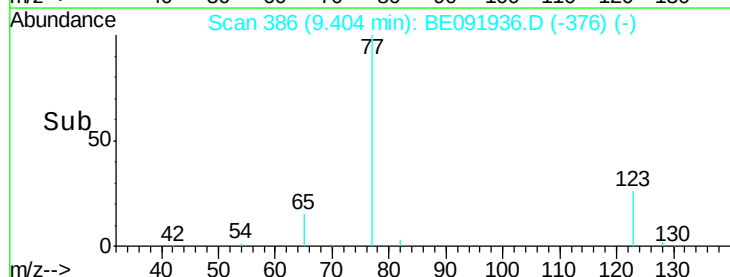
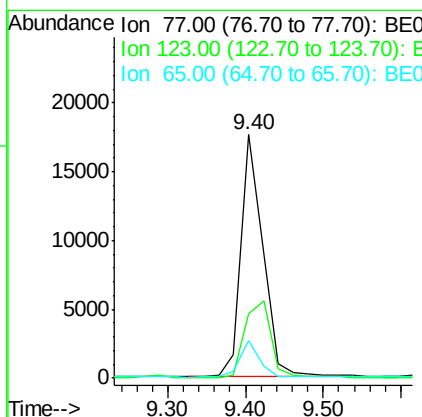
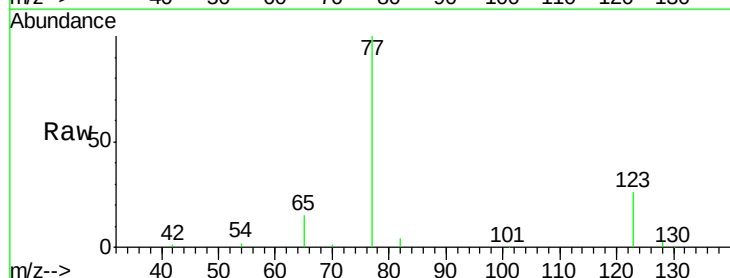
RT: 9.40 min Scan# 386

Delta R.T. -0.00 min

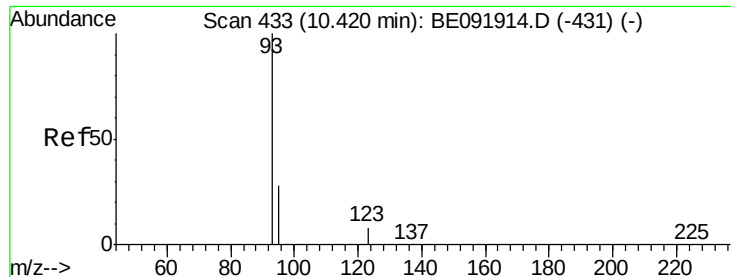
Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 34025 |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 123       | 38.4  | 0.0   | 0.0#  |
| 65        | 14.1  | 11.1  | 16.7  |







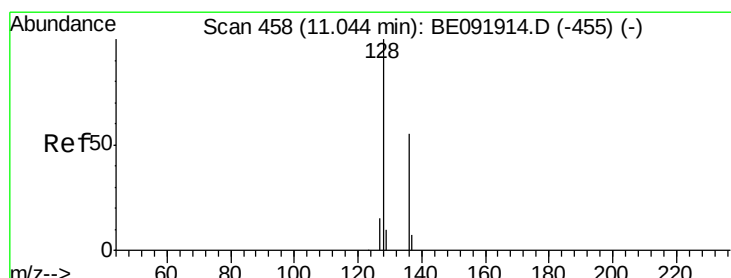
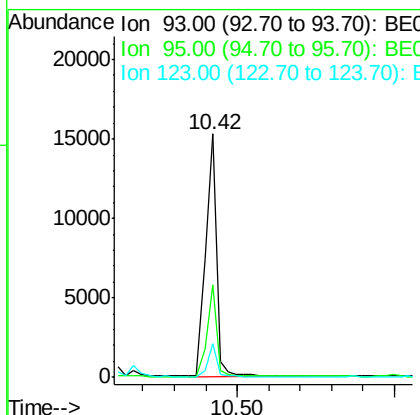
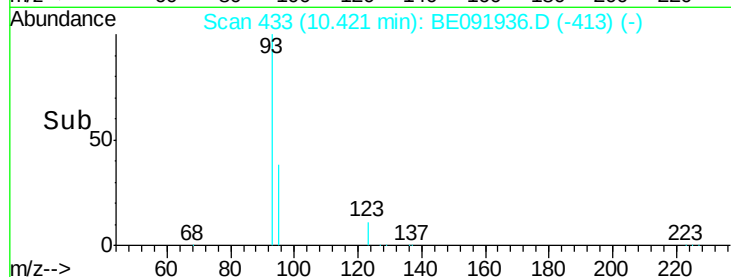
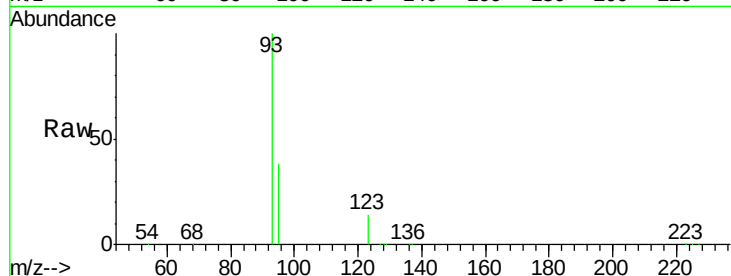
#11  
bis(2-Chloroethoxy)methane  
Concen: 2.52 ng  
RT: 10.42 min Scan# 433  
Delta R.T. 0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

Instrument :  
BNA\_E  
ClientSampleId :  
OM-SPN-001-160531MS

Tgt Ion: 93 Resp: 37217  
Ion Ratio Lower Upper  
93 100  
95 32.5 57.6 86.4#  
123 10.5 100.2 150.4#

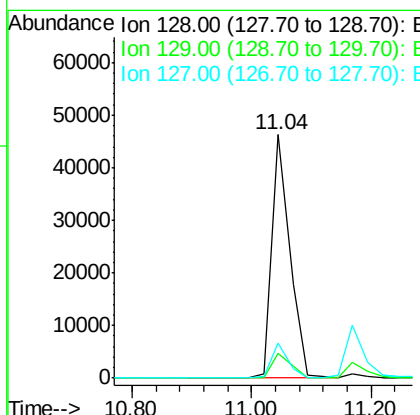
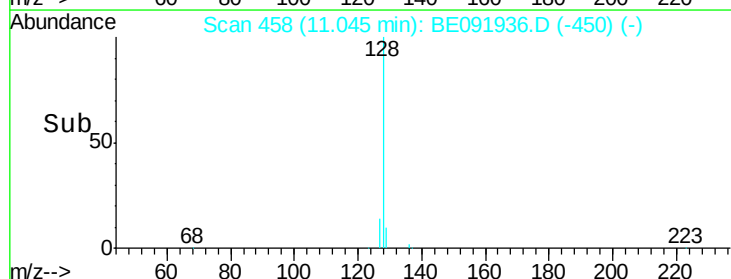
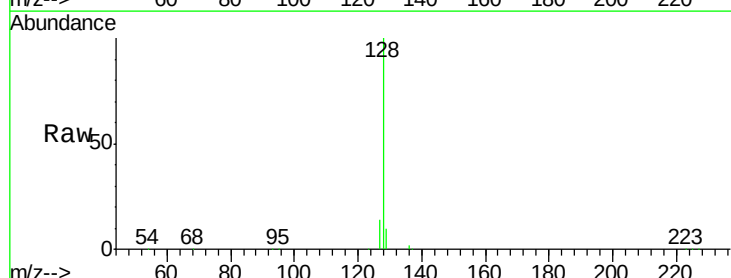
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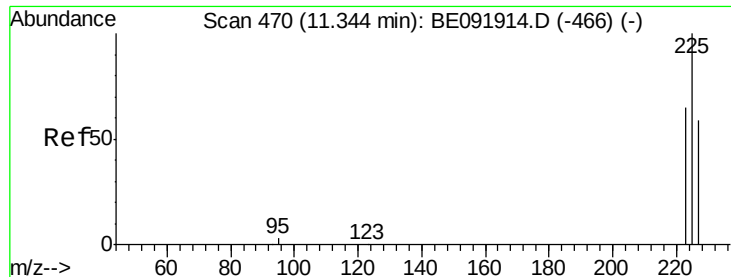
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#12  
Naphthalene  
Concen: 2.66 ng  
RT: 11.04 min Scan# 458  
Delta R.T. 0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

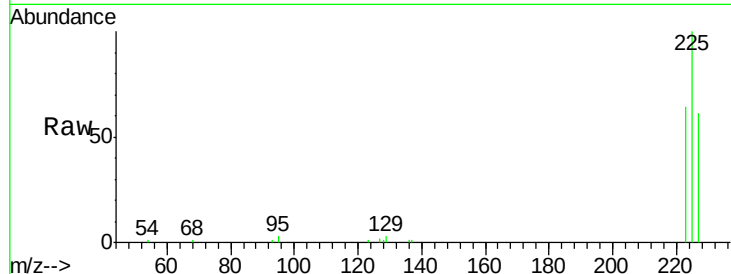
Tgt Ion: 128 Resp: 98003  
Ion Ratio Lower Upper  
128 100  
129 10.0 10.4 15.6#  
127 14.5 10.2 15.2





#13  
Hexachlorobutadiene  
Concen: 2.53 ng  
RT: 11.34 min Scan# 470  
Delta R.T. 0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

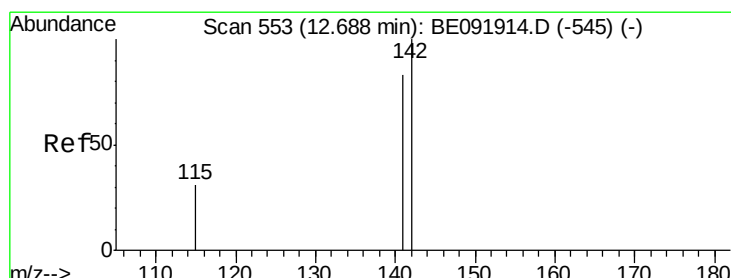
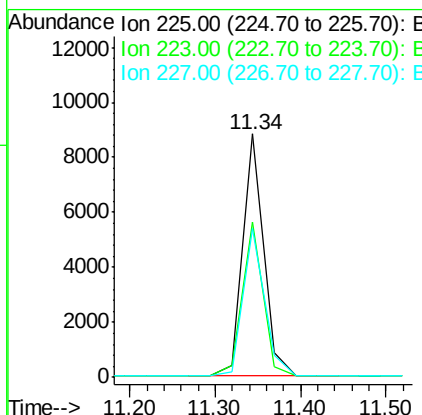
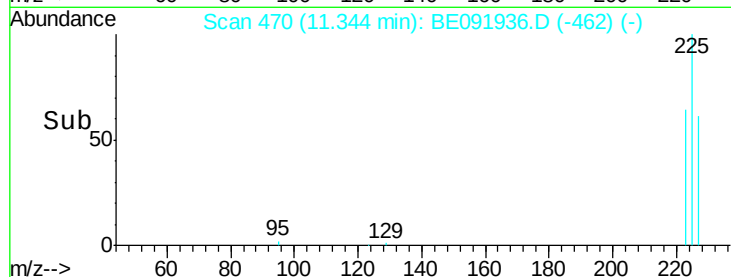
Instrument :  
BNA\_E  
ClientSampleId :  
OM-SPN-001-160531MS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.3  | 49.8  | 74.8  |
| 227     | 62.6  | 50.6  | 75.8  |

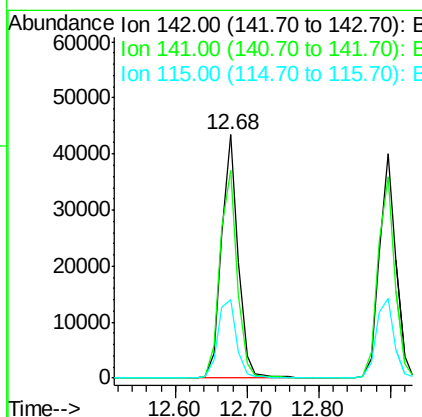
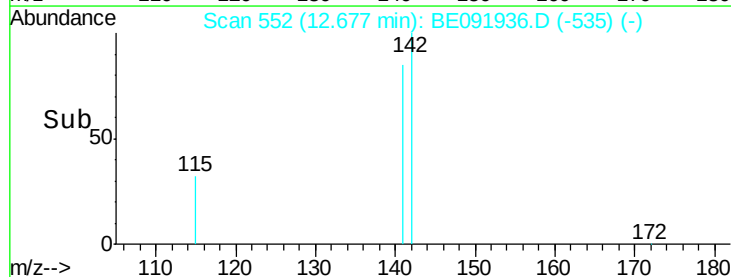
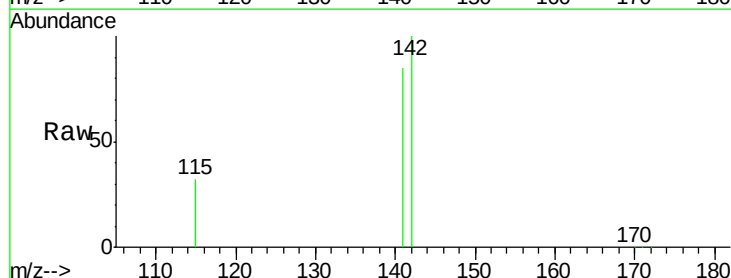
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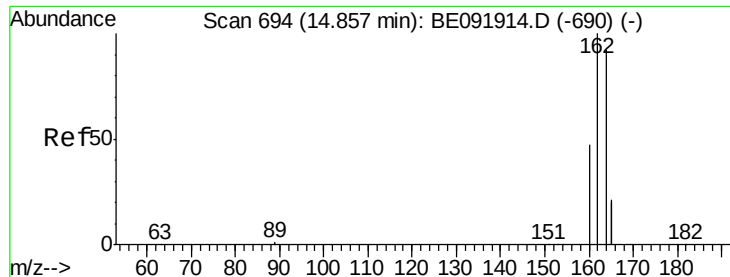
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#14  
2-Methylnaphthalene  
Concen: 2.78 ng  
RT: 12.68 min Scan# 552  
Delta R.T. 0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.1  | 71.9  | 107.9 |
| 115     | 32.4  | 29.9  | 44.9  |





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.86 min Scan# 694

Delta R.T. -0.00 min

Lab File: BE091936.D

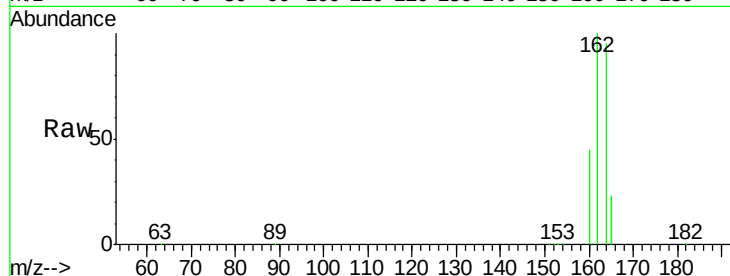
Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

ClientSampleId :

OM-SPN-001-160531MS



Tgt Ion:164 Resp: 125668

Ion Ratio Lower Upper

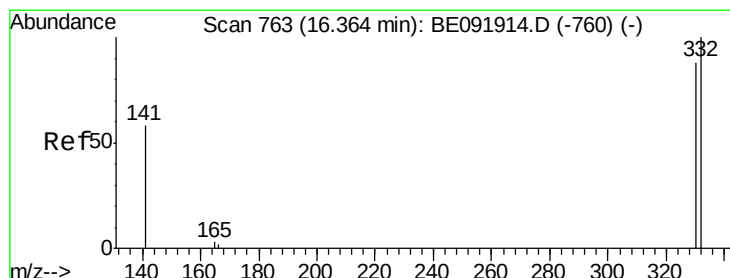
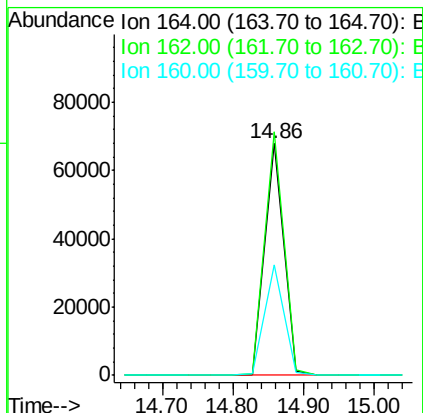
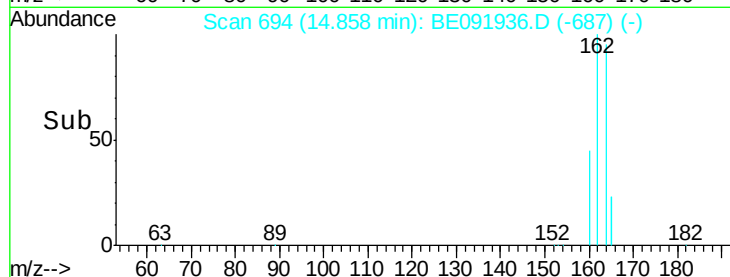
164 100

162 105.1 71.8 107.8

160 47.8 28.0 42.0#

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#16

2,4,6-Tribromophenol

Concen: 5.90 ng

RT: 16.35 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

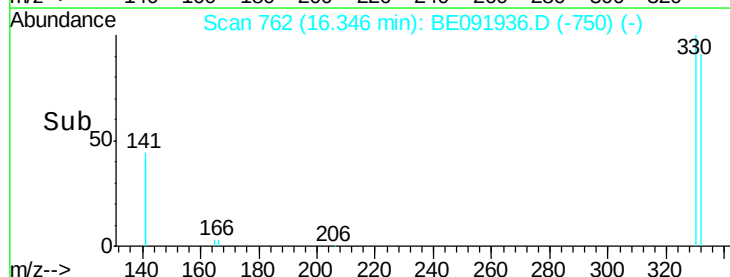
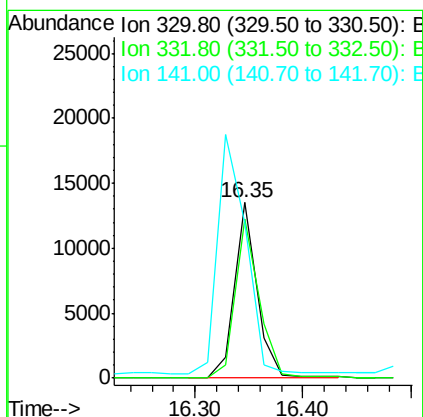
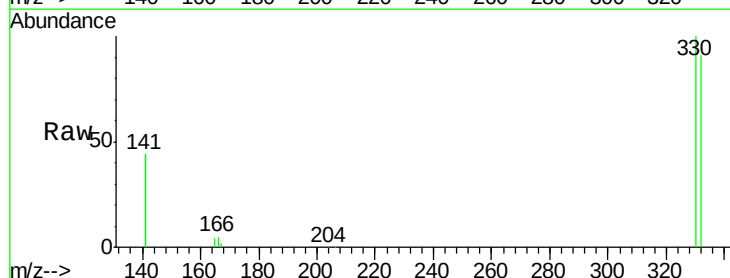
Tgt Ion:330 Resp: 19226

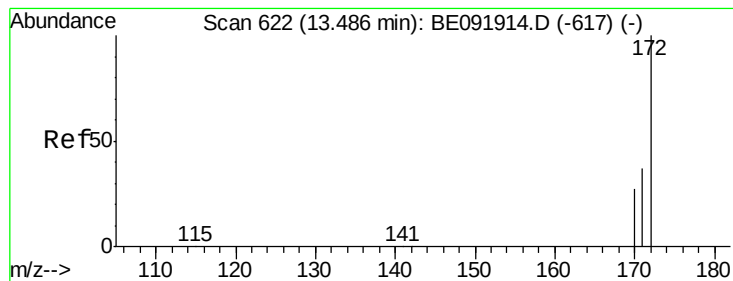
Ion Ratio Lower Upper

330 100

332 95.7 77.0 115.6

141 173.0 138.4 207.6





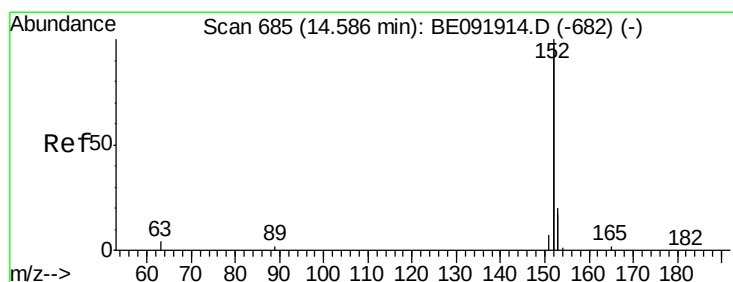
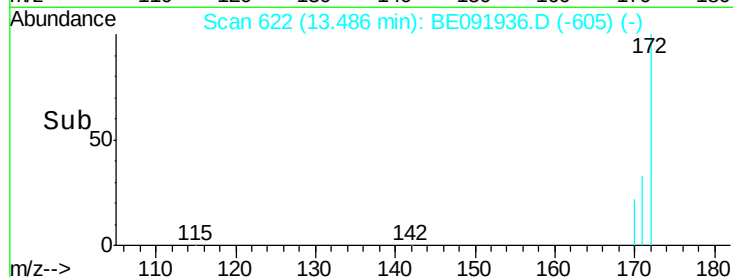
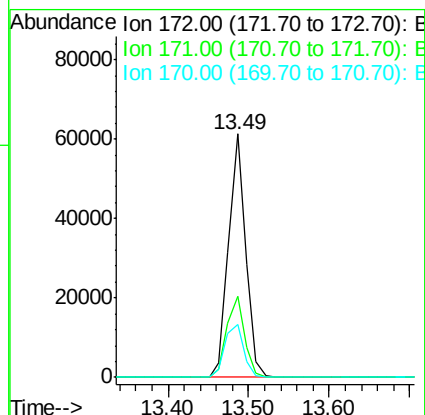
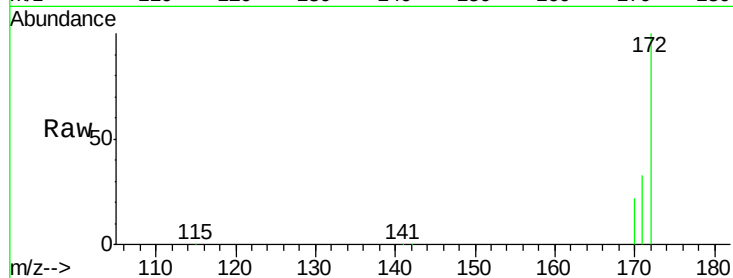
#17  
 2-Fluorobiphenyl  
 Concen: 2.82 ng  
 RT: 13.49 min Scan# 622  
 Delta R.T. 0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OM-SPN-001-160531MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.4  | 24.3  | 36.5  |
| 170     | 21.6  | 14.9  | 22.3  |

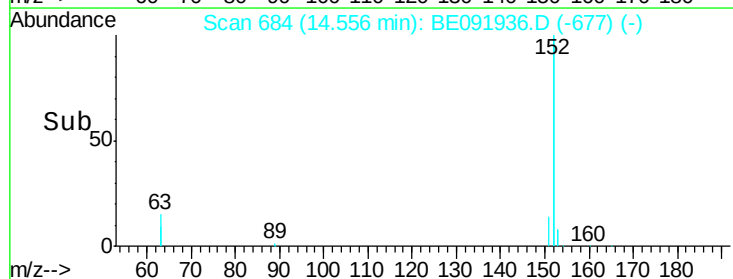
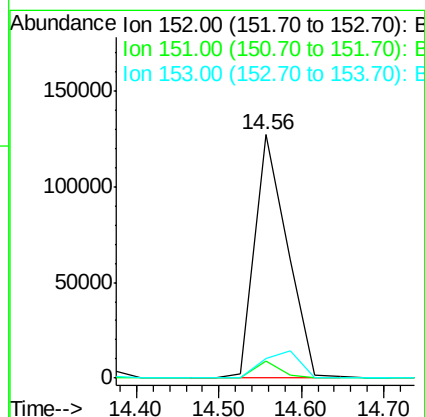
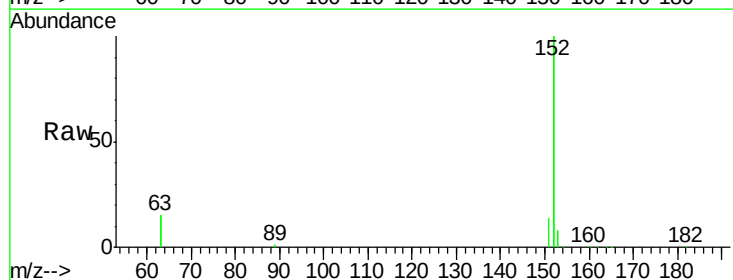
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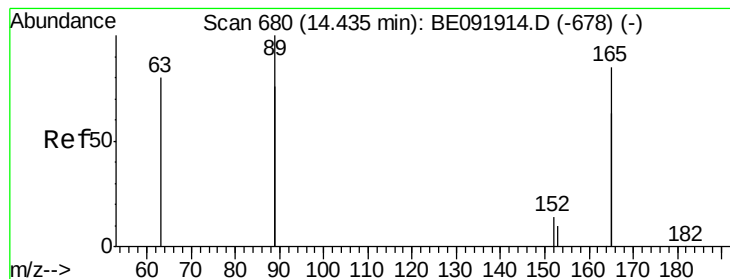
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#18  
 Acenaphthylene  
 Concen: 2.73 ng  
 RT: 14.56 min Scan# 684  
 Delta R.T. -0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 5.5   | 19.4  | 29.2# |
| 153     | 0.0   | 14.4  | 21.6# |





#19

2,6-Dinitrotoluene

Concen: 2.51 ng

RT: 14.44 min Scan# 680

Delta R.T. 0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

ClientSampleId :

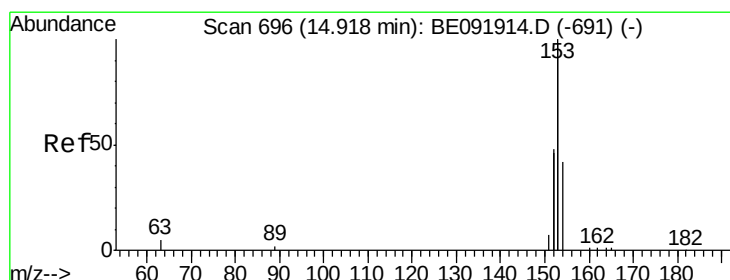
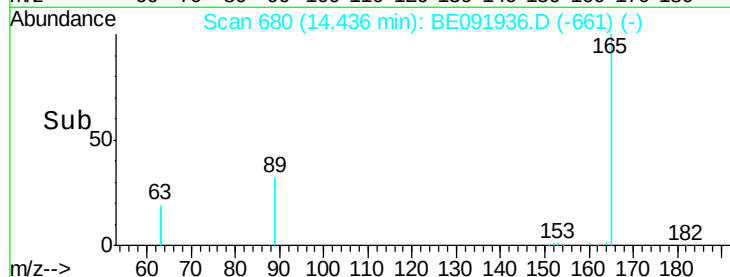
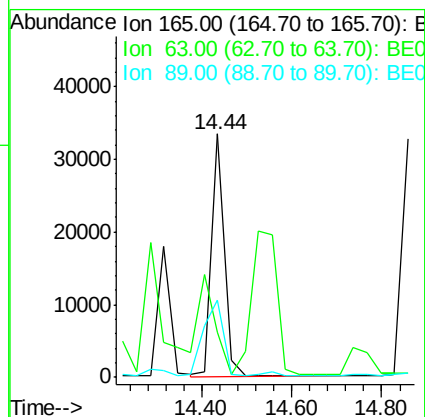
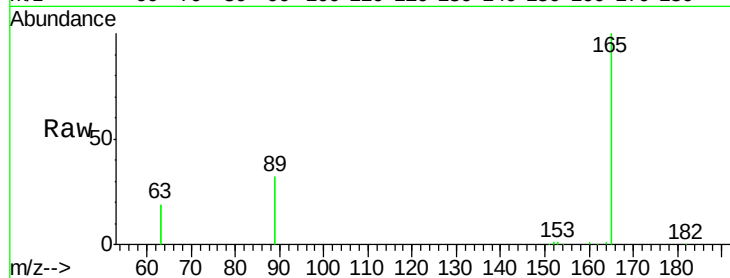
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 66424 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 65.9  | 98.9# |
| 89        | 49.1  | 59.1  | 88.7# |



#20

Acenaphthene

Concen: 2.67 ng

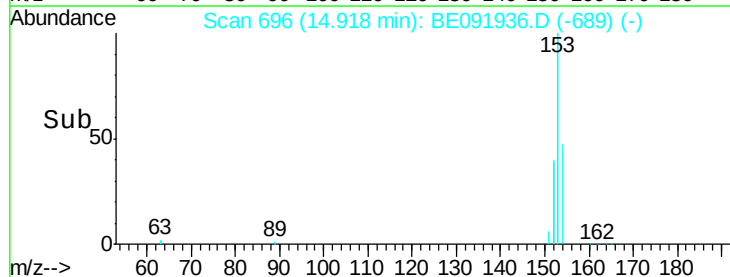
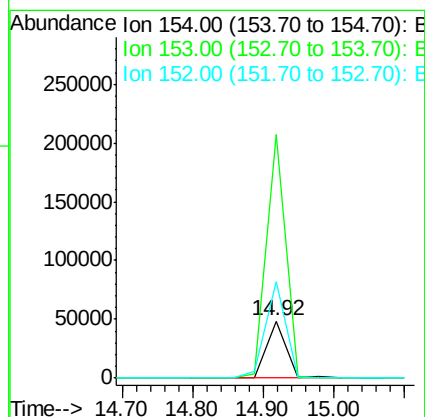
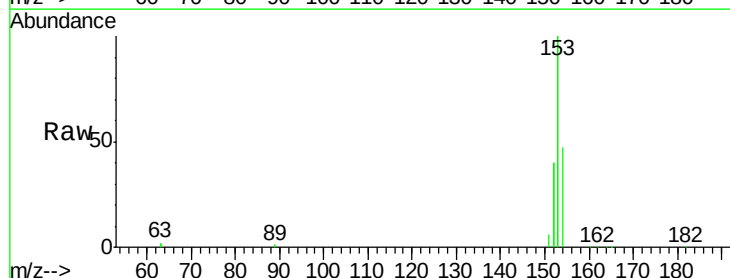
RT: 14.92 min Scan# 696

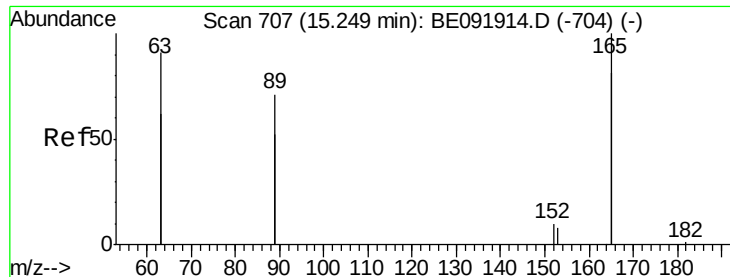
Delta R.T. -0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 93762  |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 409.7 | 88.1  | 132.1# |
| 152       | 169.6 | 44.2  | 66.2#  |





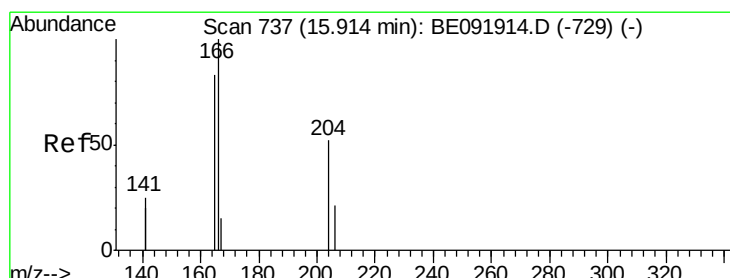
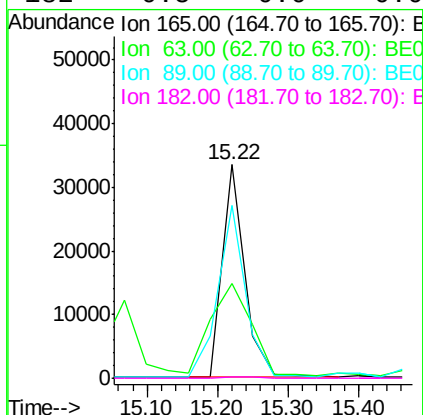
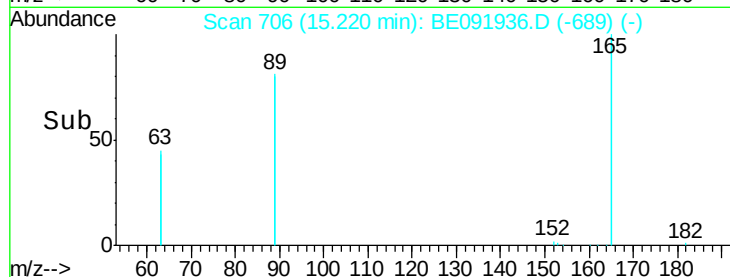
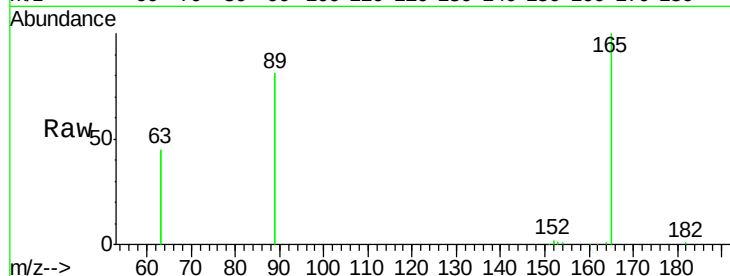
#21  
2,4-Dinitrotoluene  
Concen: 2.94 ng  
RT: 15.22 min Scan# 706  
Delta R.T. 0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

Instrument :  
BNA\_E  
ClientSampleId :  
OM-SPN-001-160531MS

Tgt Ion:165 Resp: 72620  
Ion Ratio Lower Upper  
165 100  
63 78.6 0.0 0.0#  
89 100.2 99.8 149.8  
182 0.5 0.0 0.0#

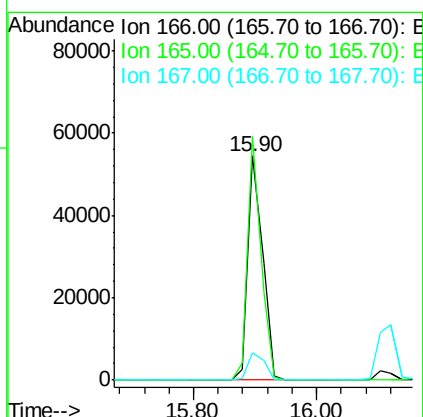
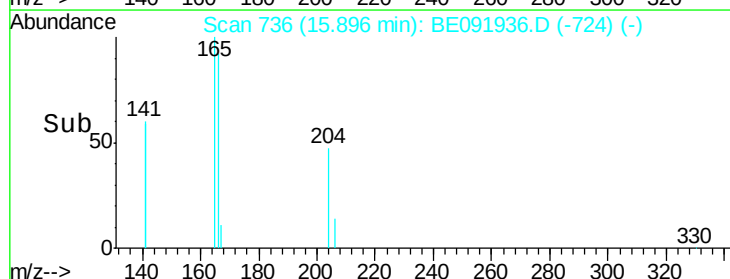
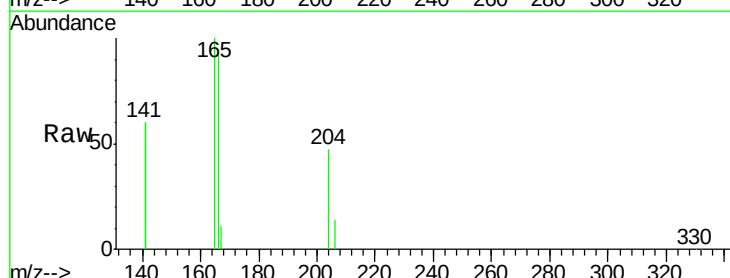
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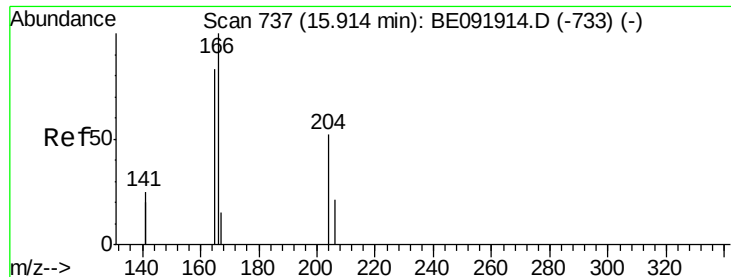
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#22  
Fluorene  
Concen: 2.57 ng  
RT: 15.90 min Scan# 736  
Delta R.T. -0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

Tgt Ion:166 Resp: 89887  
Ion Ratio Lower Upper  
166 100  
165 98.9 78.6 117.8  
167 13.7 10.8 16.2





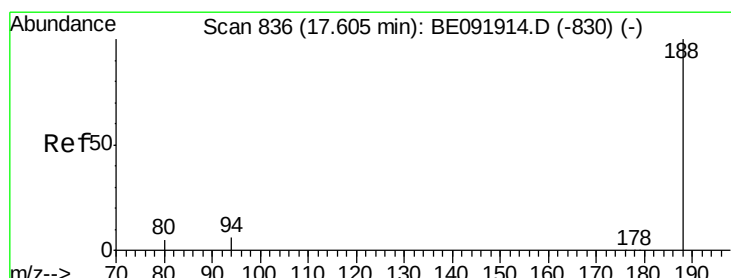
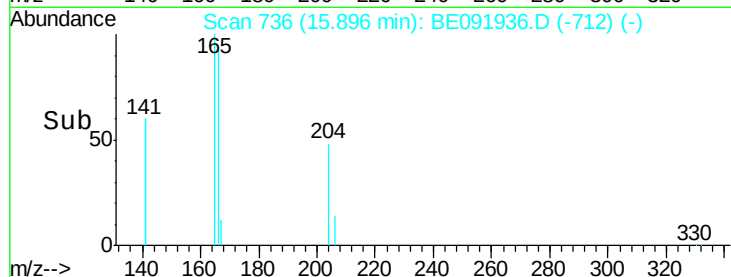
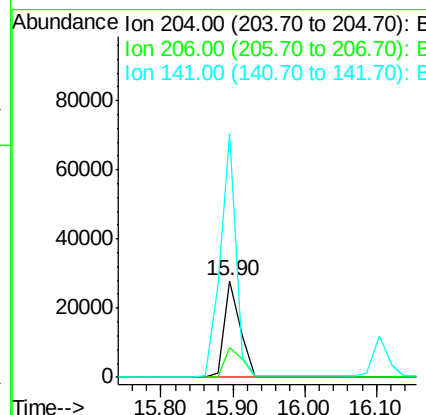
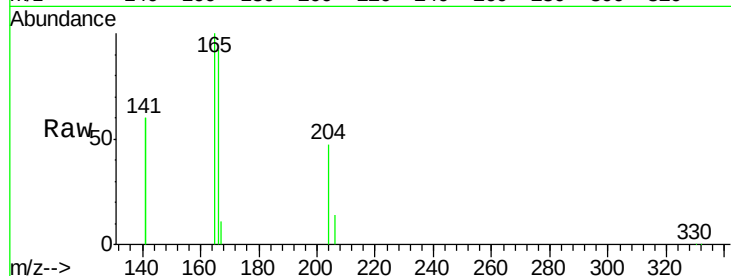
#23  
4-Chlorophenyl-phenylether  
Concen: 2.50 ng  
RT: 15.90 min Scan# 736  
Delta R.T. -0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

Instrument :  
BNA\_E  
ClientSampleId :  
OM-SPN-001-160531MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 34.0  | 27.8  | 41.6  |
| 141     | 248.5 | 197.6 | 296.4 |

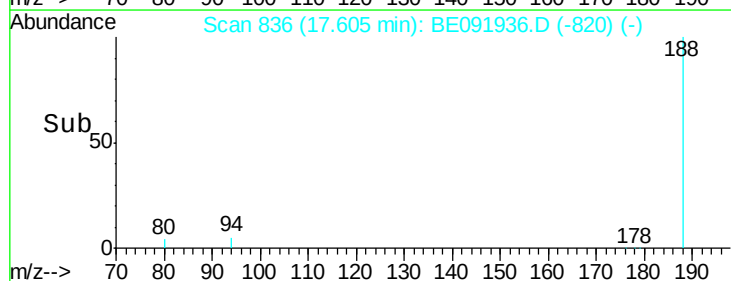
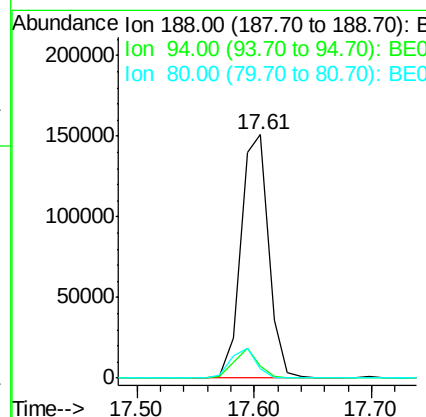
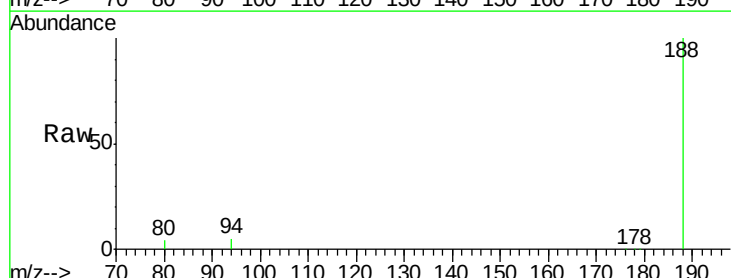
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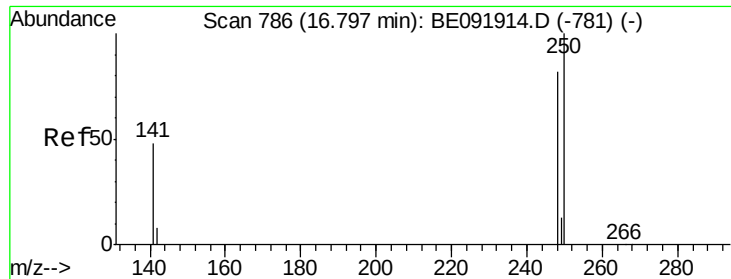
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#24  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.61 min Scan# 836  
Delta R.T. -0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.7   | 4.1   | 6.1   |
| 80      | 3.9   | 3.4   | 5.2   |





#25

4-Bromophenyl-phenylether

Concen: 2.70 ng

RT: 16.78 min Scan# 785

Delta R.T. -0.00 min

Lab File: BE091936.D

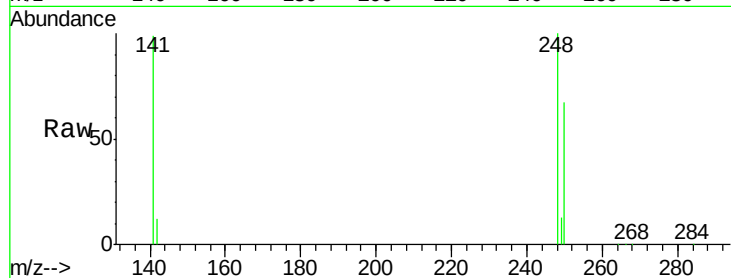
Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

ClientSampleId :

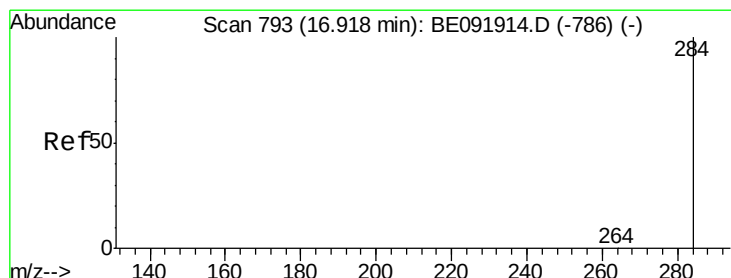
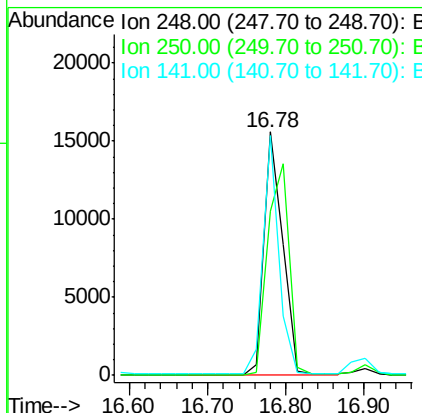
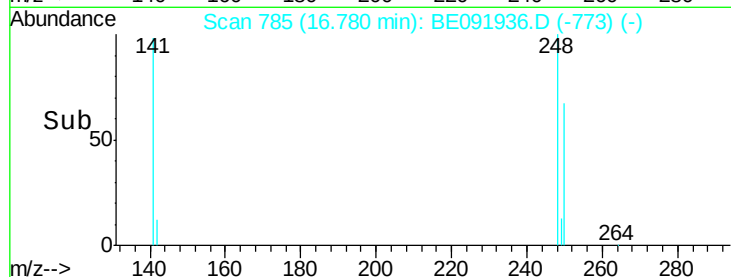
OM-SPN-001-160531MS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 25889 |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 99.2  | 75.7  | 113.5 |
| 141       | 83.3  | 64.6  | 97.0  |

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#26

Hexachlorobenzene

Concen: 2.67 ng

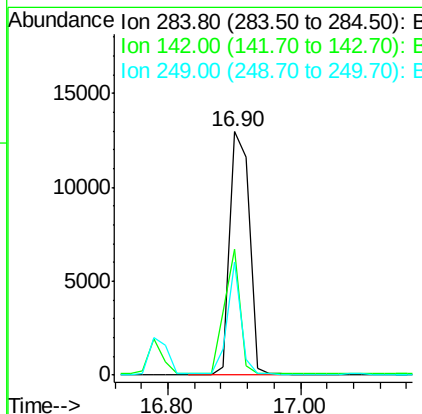
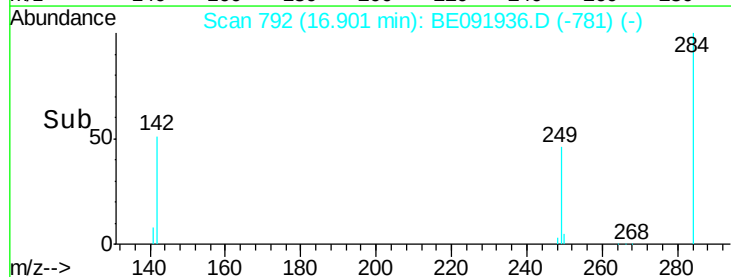
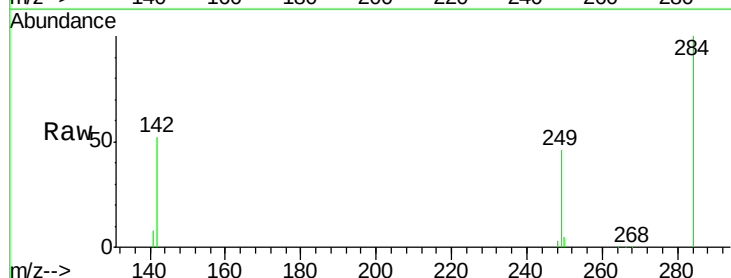
RT: 16.90 min Scan# 792

Delta R.T. -0.02 min

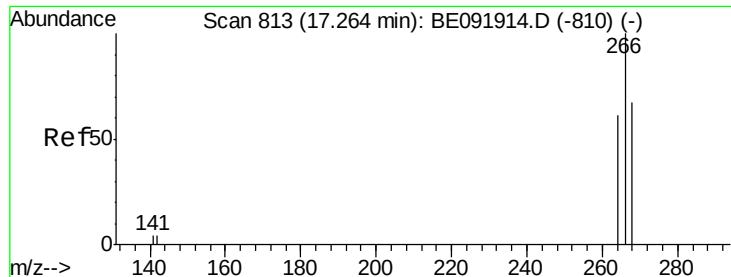
Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 284   | Resp: | 26244 |
| Ion Ratio | Lower | Upper |       |
| 284       | 100   |       |       |
| 142       | 41.0  | 31.4  | 47.2  |
| 249       | 31.9  | 25.3  | 37.9  |







#27

Pentachlorophenol

Concen: 5.27 ng

RT: 17.25 min Scan# 812

Delta R.T. -0.00 min

Lab File: BE091936.D

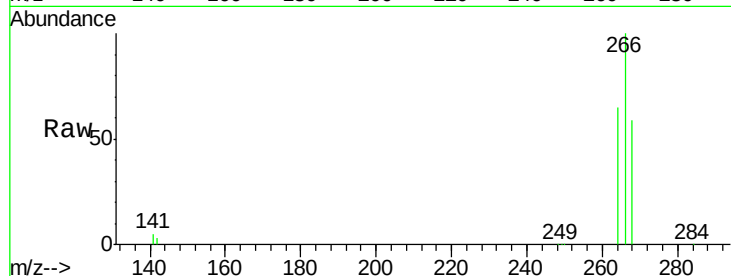
Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

ClientSampleId :

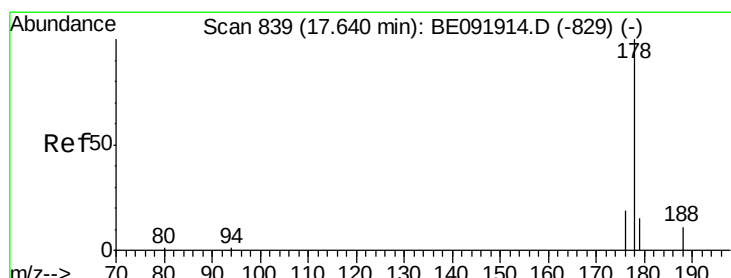
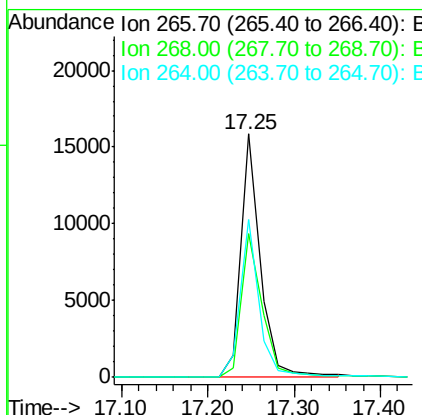
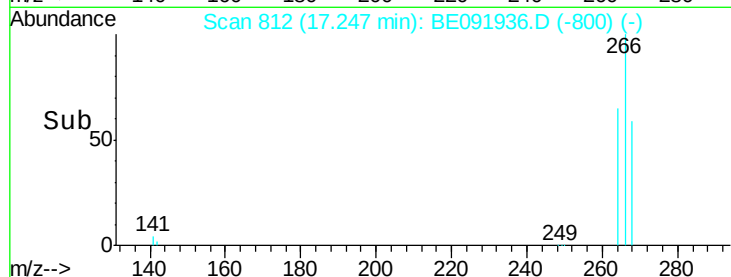
OM-SPN-001-160531MS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 24585 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 268       | 59.0  | 60.5  | 90.7# |
| 264       | 65.0  | 51.0  | 76.4  |

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#28

Phenanthrene

Concen: 2.60 ng

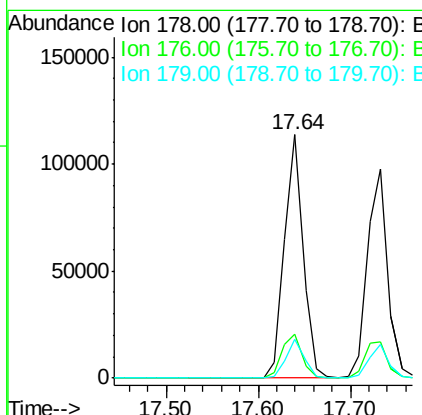
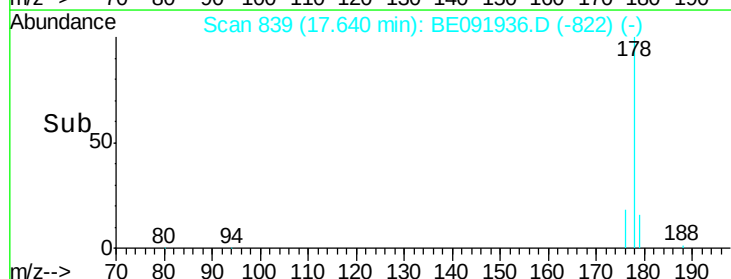
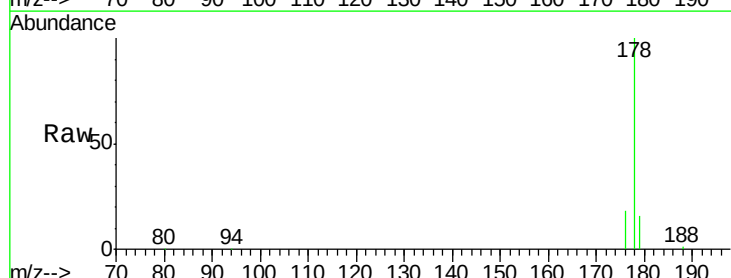
RT: 17.64 min Scan# 839

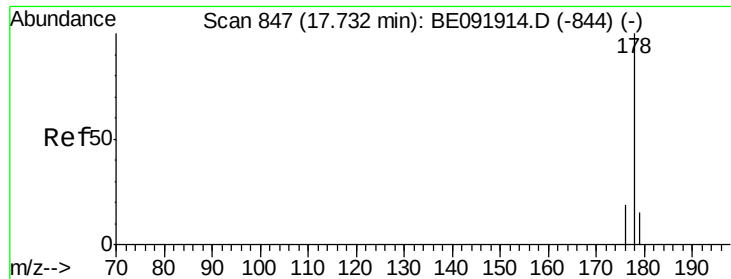
Delta R.T. -0.00 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

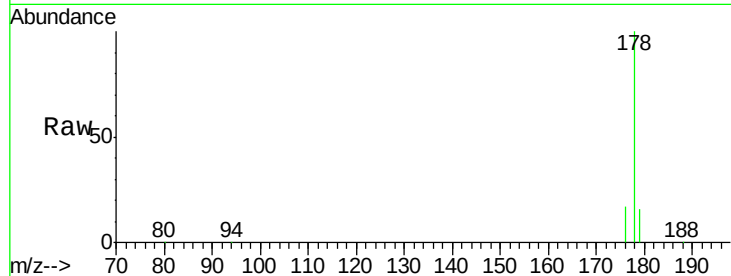
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 161249 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.3  | 15.4  | 23.2   |
| 179       | 15.5  | 12.9  | 19.3   |





#29  
 Anthracene  
 Concen: 2.75 ng  
 RT: 17.73 min Scan# 847  
 Delta R.T. -0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

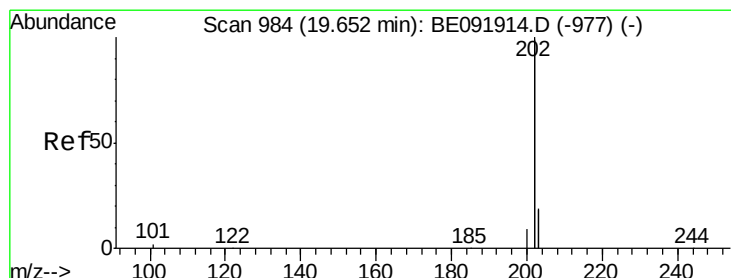
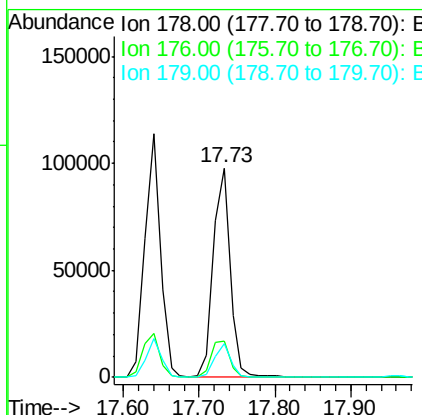
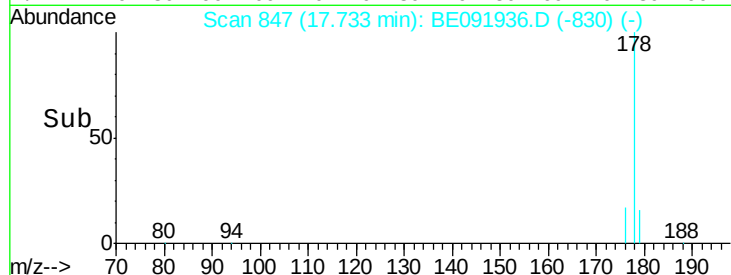
Instrument :  
 BNA\_E  
 ClientSampleId :  
 OM-SPN-001-160531MS



Tgt Ion:178 Resp: 150997  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 15.1 22.7  
 179 15.4 12.1 18.1

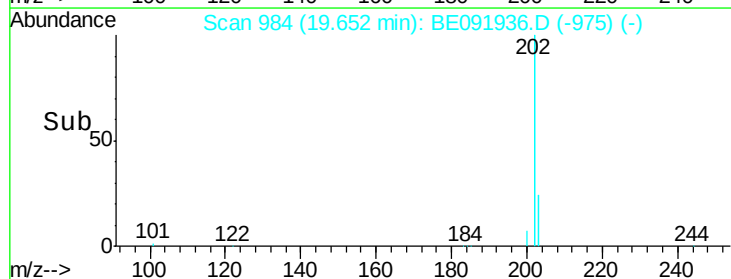
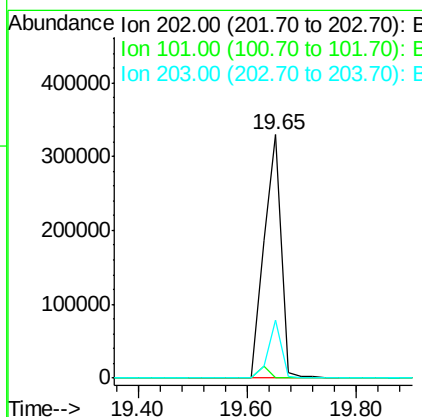
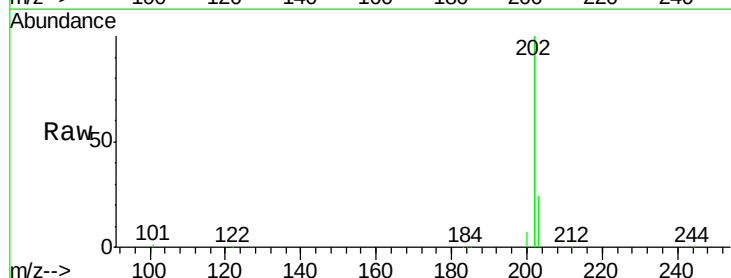
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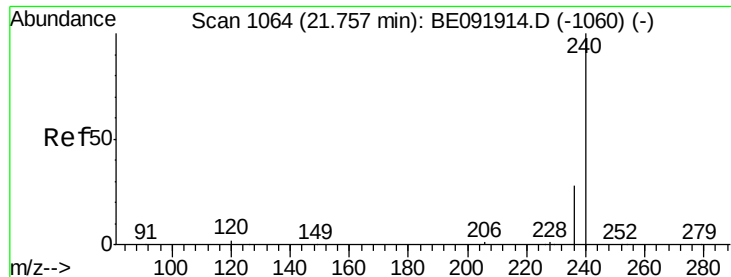
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#30  
 Fluoranthene  
 Concen: 2.72 ng  
 RT: 19.65 min Scan# 984  
 Delta R.T. 0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

Tgt Ion:202 Resp: 721607  
 Ion Ratio Lower Upper  
 202 100  
 101 0.0 9.4 14.0#  
 203 18.7 14.3 21.5





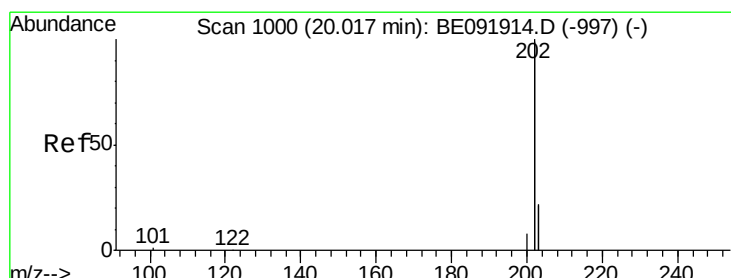
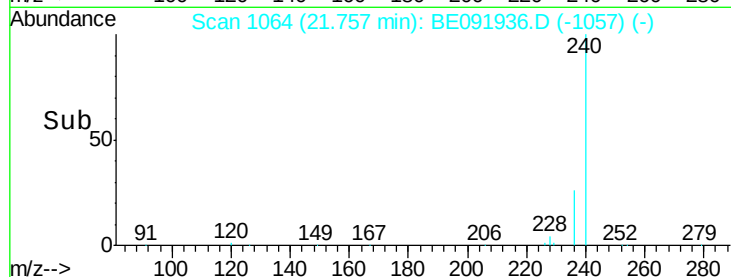
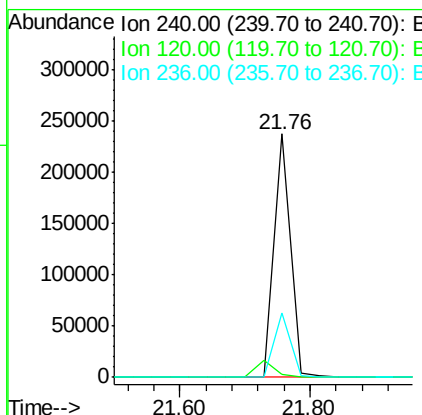
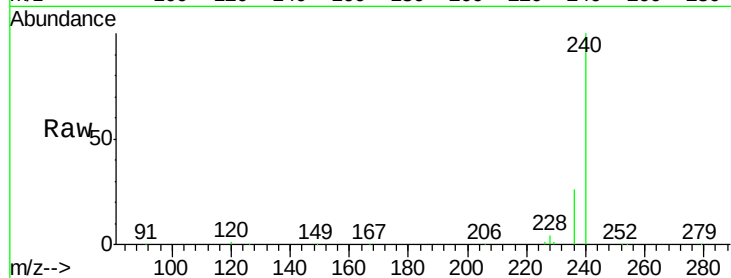
#31  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.76 min Scan# 1064  
Delta R.T. 0.00 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

Instrument :  
BNA\_E  
ClientSampleId :  
OM-SPN-001-160531MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 1.1   | 1.2   | 1.8#  |
| 236     | 26.4  | 19.8  | 29.8  |

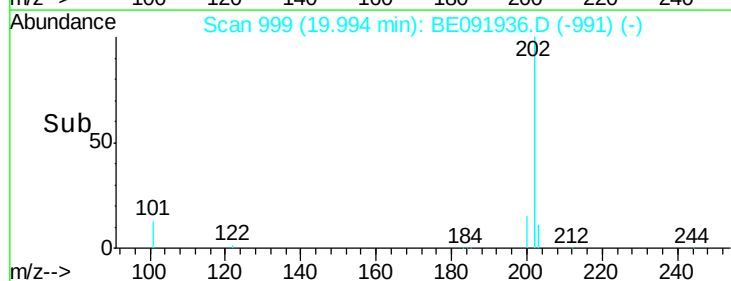
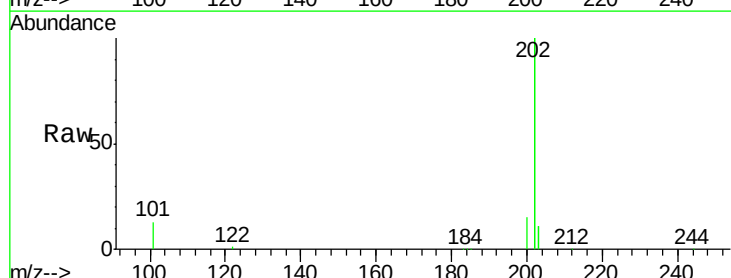
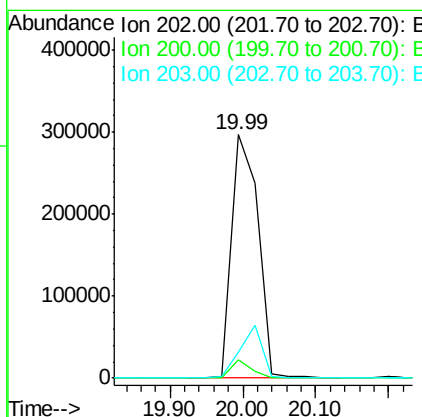
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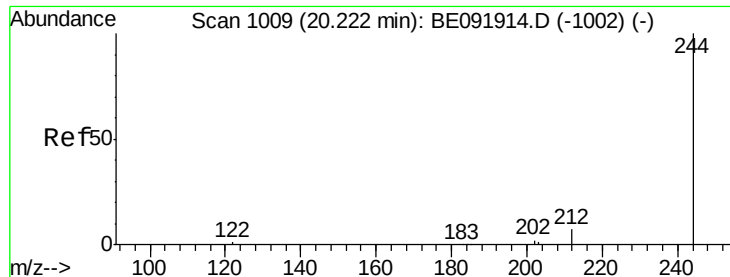
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#33  
Pyrene  
Concen: 2.61 ng  
RT: 19.99 min Scan# 999  
Delta R.T. -0.02 min  
Lab File: BE091936.D  
Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 5.7   | 16.9  | 25.3# |
| 203     | 0.0   | 14.1  | 21.1# |





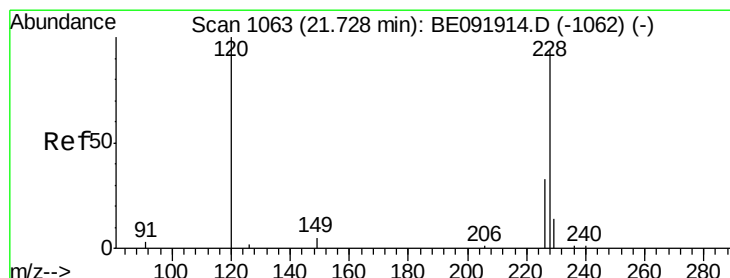
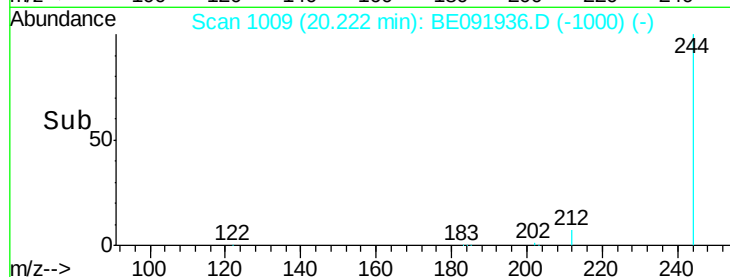
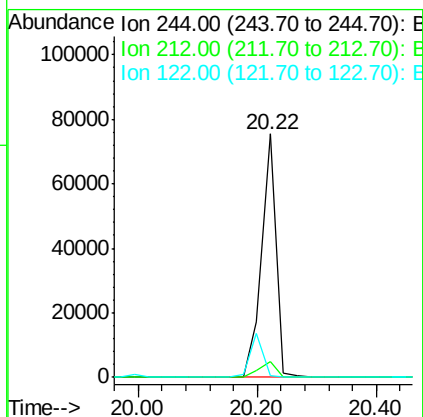
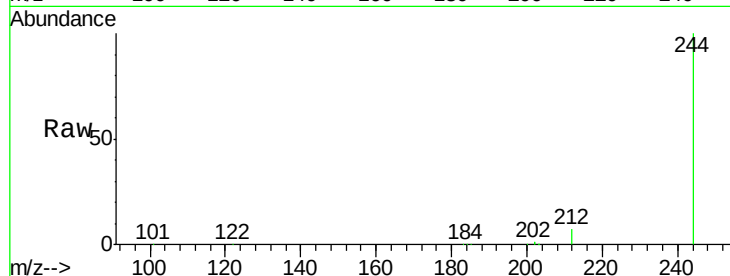
#34  
 Terphenyl-d14  
 Concen: 2.52 ng  
 RT: 20.22 min Scan# 1009  
 Delta R.T. 0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OM-SPN-001-160531MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 6.7   | 6.5        | 9.7        |
| 122     | 0.5   | 2.9        | 4.3        |

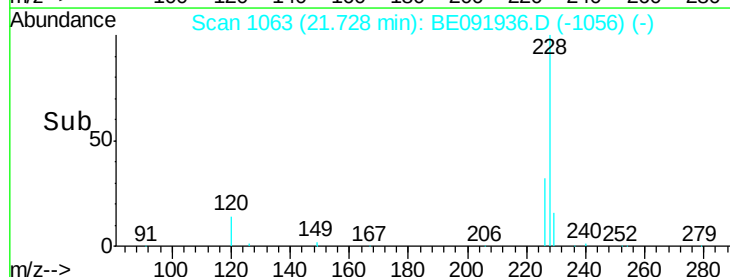
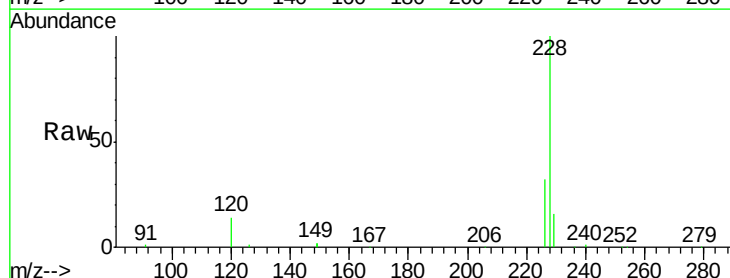
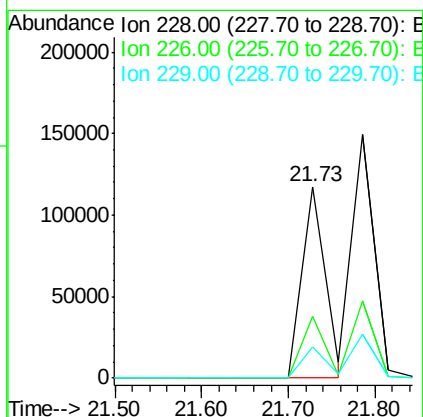
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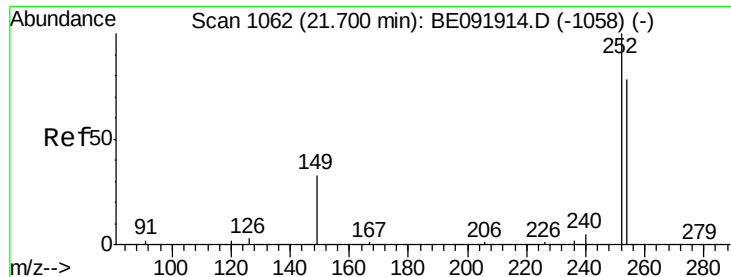
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#35  
 Benzo(a)anthracene  
 Concen: 3.31 ng  
 RT: 21.73 min Scan# 1063  
 Delta R.T. 0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 226     | 32.0  | 21.0       | 31.4       |
| 229     | 16.3  | 15.8       | 23.8       |





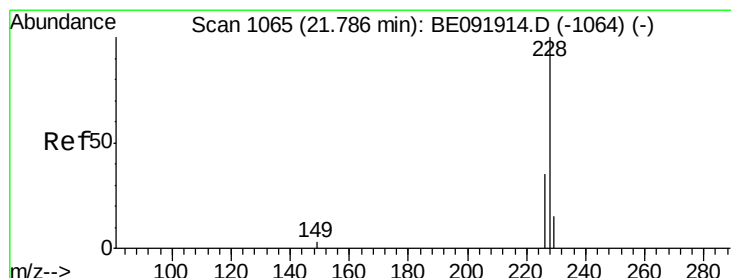
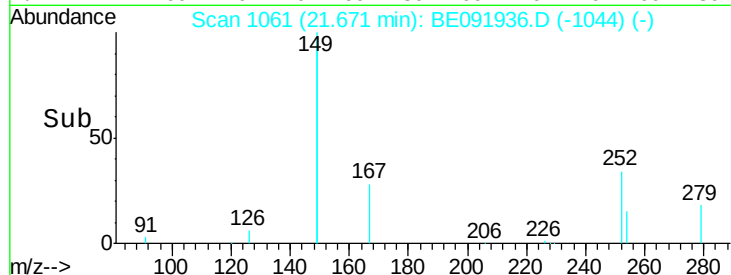
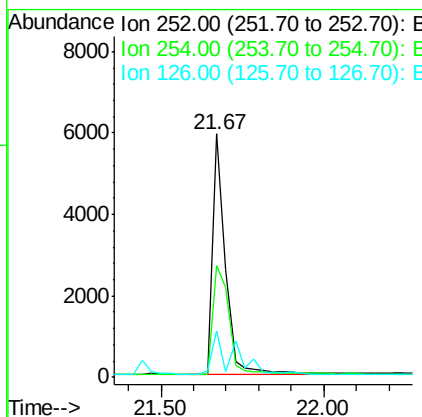
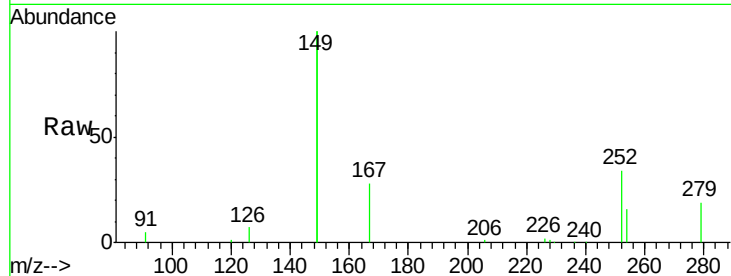
#36  
 3,3'-Dichlorobenzidine  
 Concen: 1.53 ng  
 RT: 21.67 min Scan# 1061  
 Delta R.T. 0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OM-SPN-001-160531MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 45.9  | 61.5  | 92.3# |
| 126     | 19.3  | 2.5   | 3.7#  |

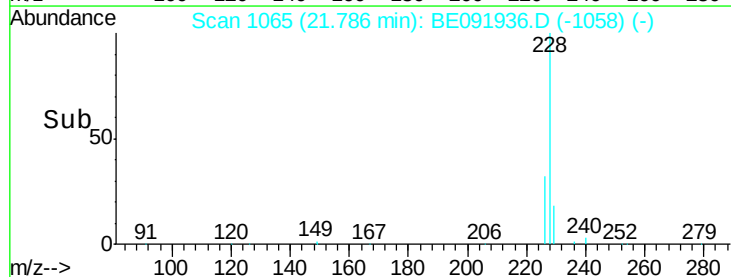
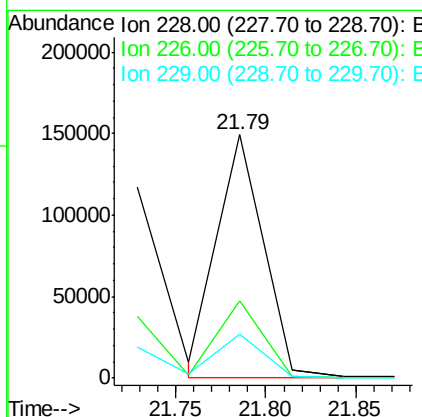
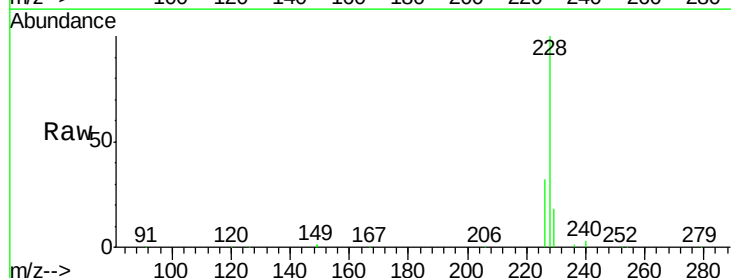
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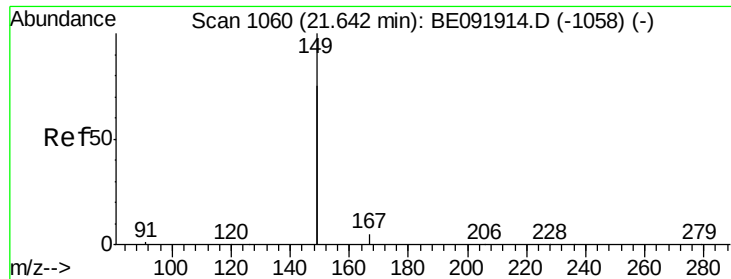
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#37  
 Chrysene  
 Concen: 2.78 ng m  
 RT: 21.79 min Scan# 1065  
 Delta R.T. 0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

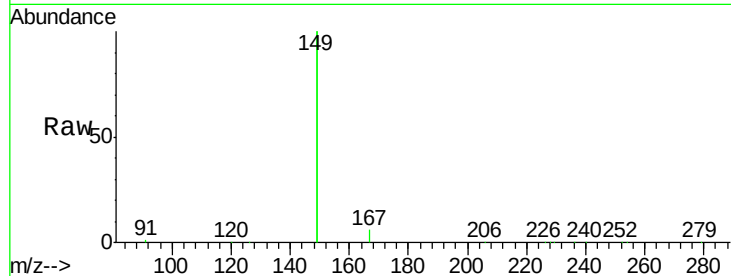
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 27.0  | 40.6  |
| 229     | 18.2  | 13.8  | 20.8  |





#38  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.17 ng  
 RT: 21.64 min Scan# 1060  
 Delta R.T. -0.03 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

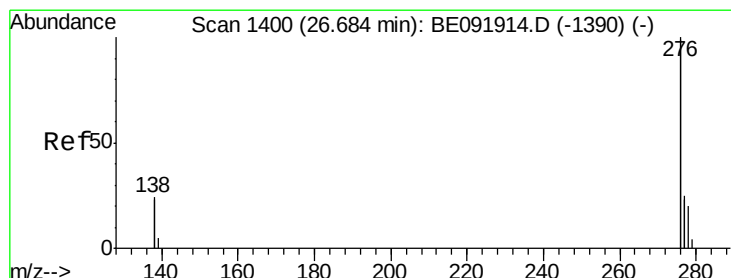
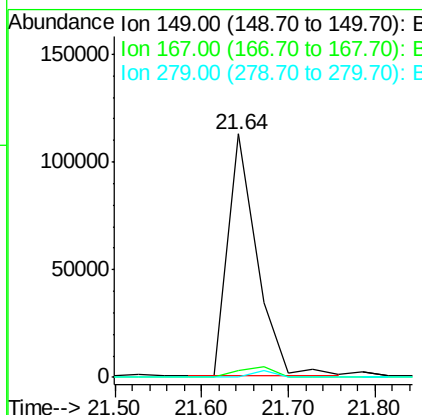
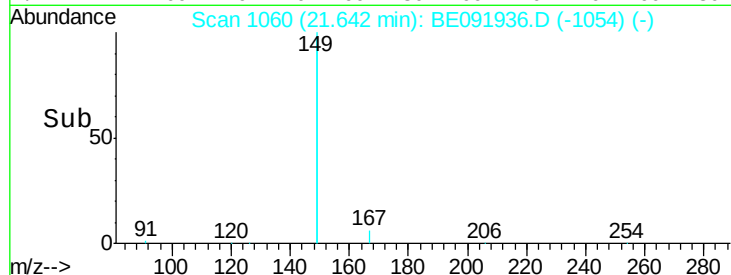
Instrument :  
 BNA\_E  
 ClientSampleId :  
 OM-SPN-001-160531MS



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 257987 |       |       |
| 167     | 0.0   | 0.0    | 0.0   | 0.0   |
| 279     | 0.0   | 0.0    | 0.0   | 0.0   |

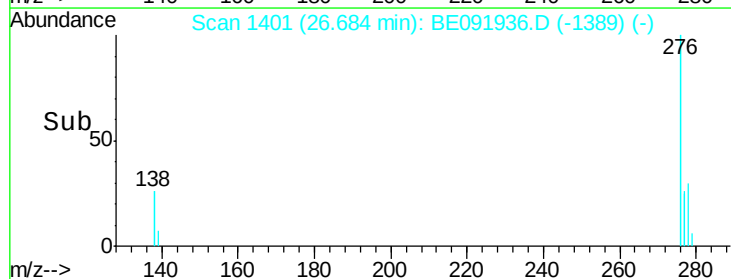
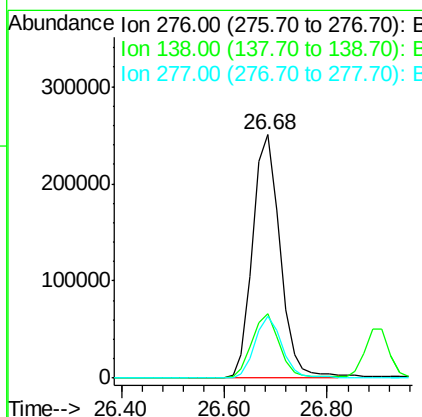
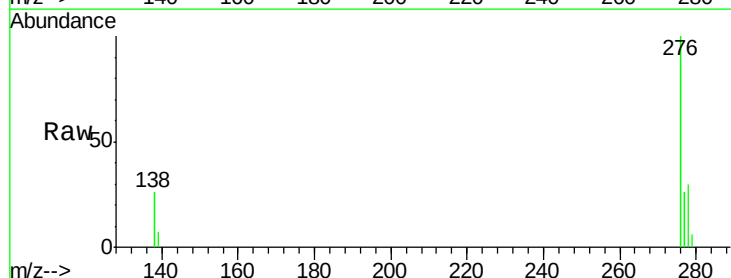
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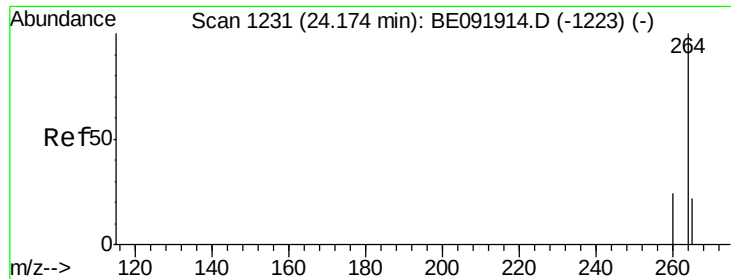
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#39  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.79 ng  
 RT: 26.68 min Scan# 1401  
 Delta R.T. -0.00 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 919515 |       |       |
| 138     | 26.4  | 19.7   | 29.5  |       |
| 277     | 24.9  | 20.1   | 30.1  |       |





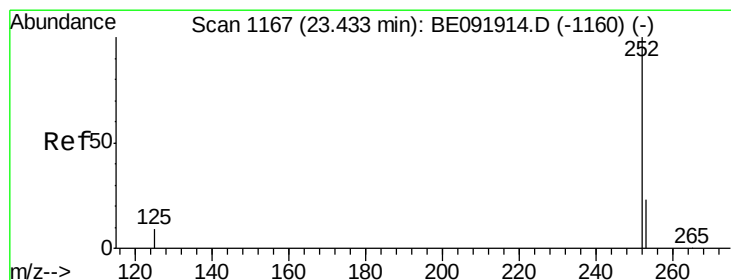
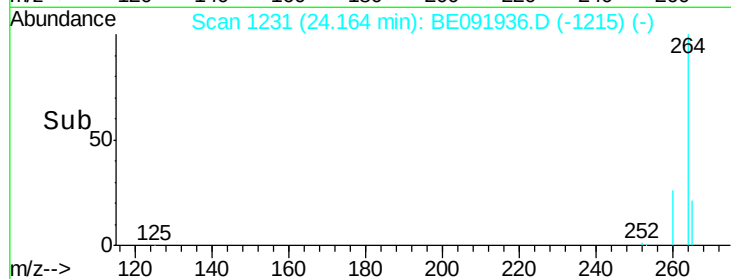
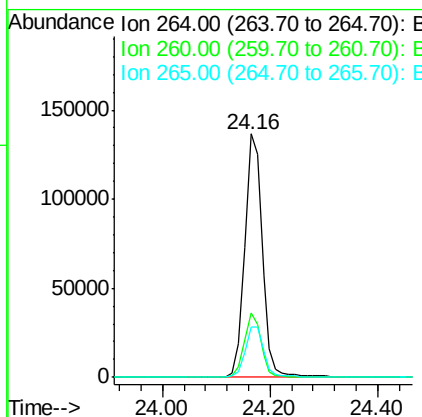
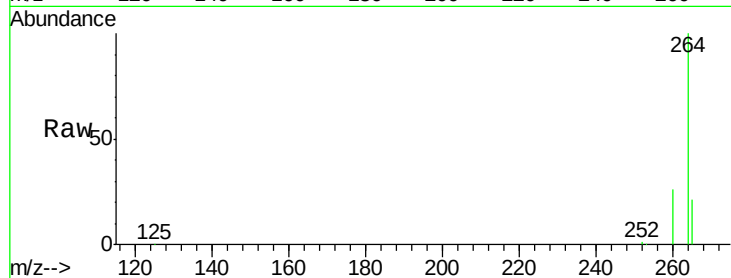
#40  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 24.16 min Scan# 1231  
 Delta R.T. -0.01 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OM-SPN-001-160531MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 264     | 100   |            |            |
| 260     | 26.4  | 20.3       | 30.5       |
| 265     | 20.8  | 17.6       | 26.4       |

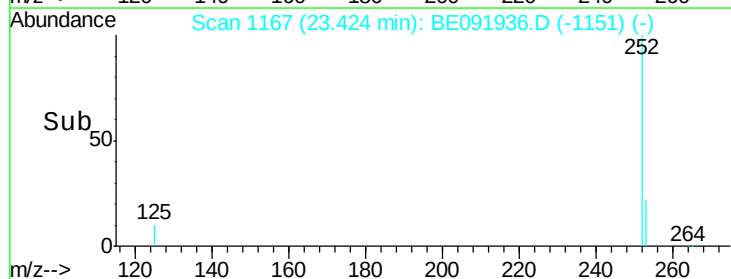
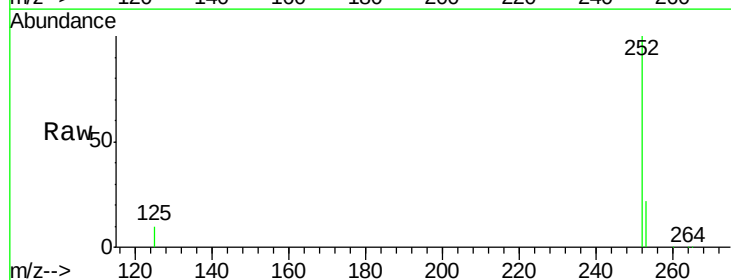
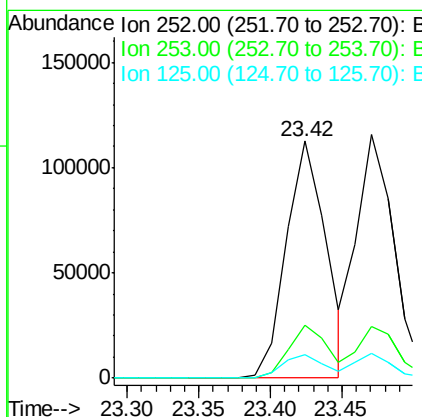
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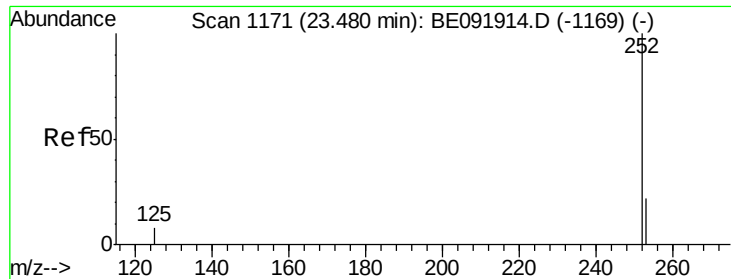
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#41  
**Benzo(b)fluoranthene**  
 Concen: 2.73 ng  
 RT: 23.42 min Scan# 1167  
 Delta R.T. -0.01 min  
 Lab File: BE091936.D  
 Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 22.1  | 17.8       | 26.6       |
| 125     | 10.1  | 9.4        | 14.2       |





#42

Benzo(k)fluoranthene

Concen: 2.93 ng

RT: 23.47 min Scan# 1171

Delta R.T. -0.01 min

Lab File: BE091936.D

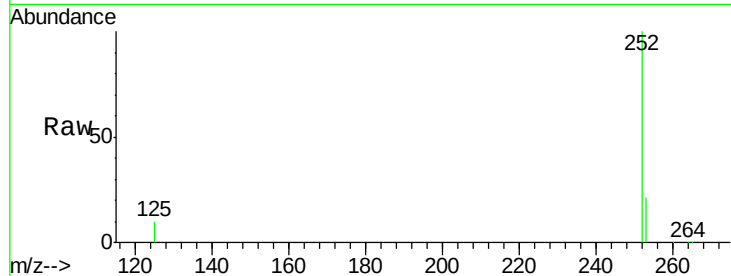
Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

ClientSampleId :

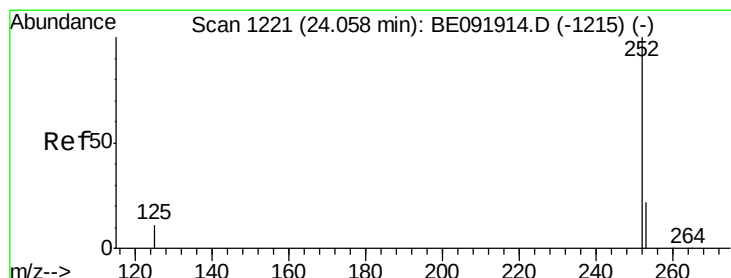
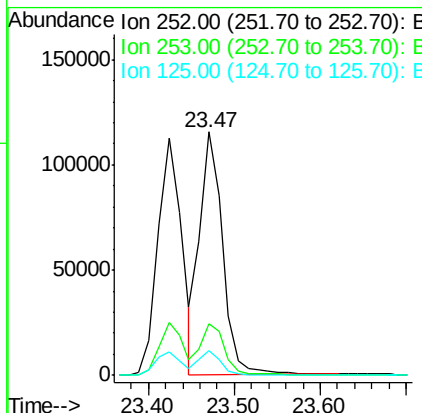
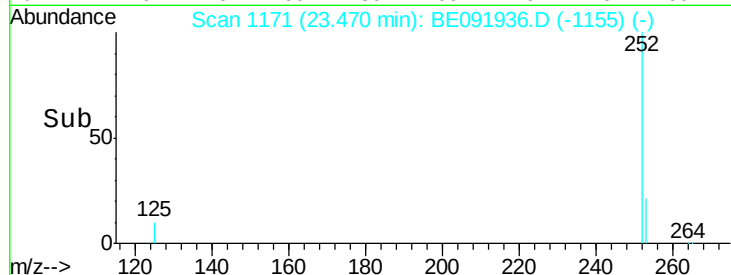
OM-SPN-001-160531MS



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 212591 |       |       |
| 253     | 21.3  | 19.4   | 29.2  |       |
| 125     | 10.3  | 8.3    | 12.5  |       |

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#43

Benzo(a)pyrene

Concen: 2.89 ng

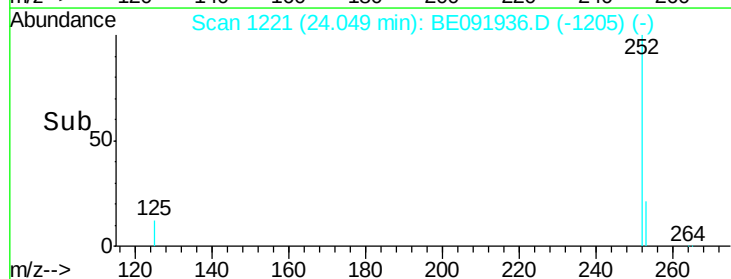
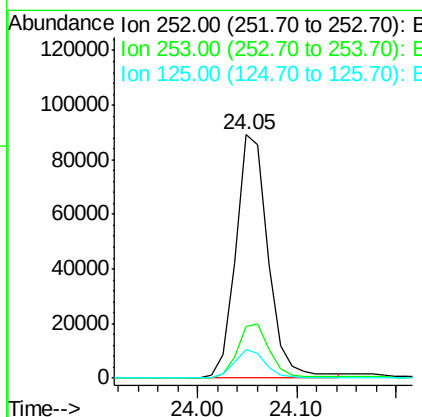
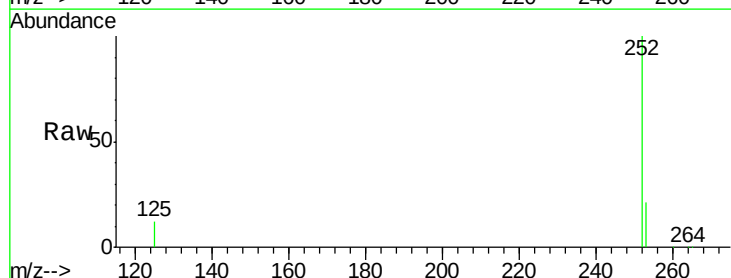
RT: 24.05 min Scan# 1221

Delta R.T. -0.01 min

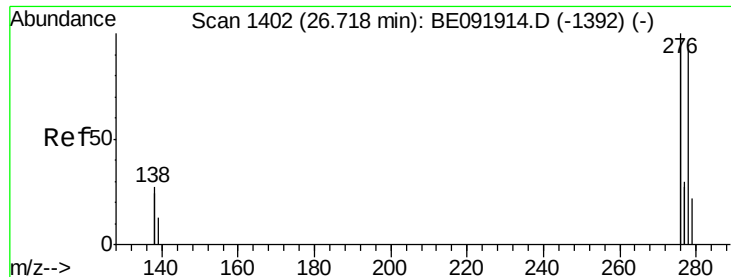
Lab File: BE091936.D

Acq: 16 Jun 2016 13:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 200123 |       |       |
| 253     | 21.0  | 18.9   | 28.3  |       |
| 125     | 11.7  | 10.5   | 15.7  |       |







#44

Dibenzo(a,h)anthracene

Concen: 2.86 ng

RT: 26.70 min Scan# 1402

Delta R.T. -0.02 min

Lab File: BE091936.D

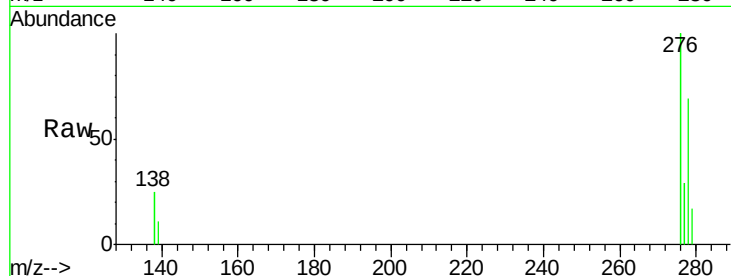
Acq: 16 Jun 2016 13:12

Instrument :

BNA\_E

ClientSampleId :

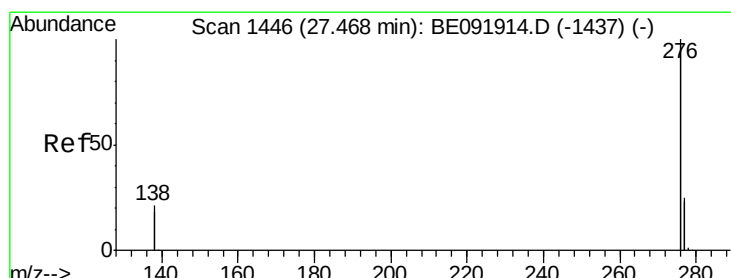
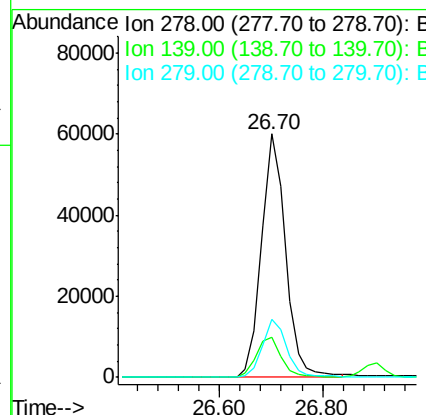
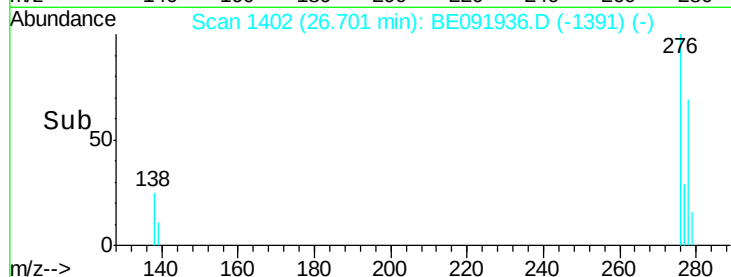
OM-SPN-001-160531MS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.3  | 12.6  | 18.8  |
| 279     | 23.9  | 20.0  | 30.0  |

Manual Integrations  
APPROVED

umangi  
6/16/2016 6:51:10 PM



#45

Benzo(g,h,i)perylene

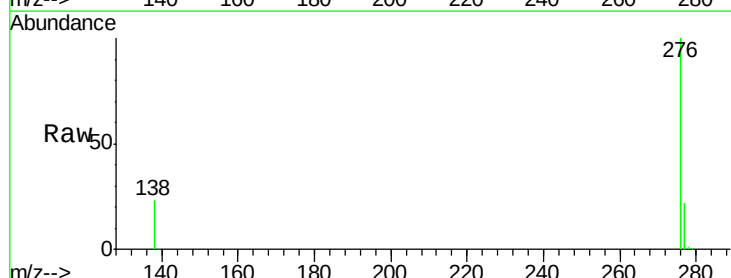
Concen: 2.87 ng

RT: 27.45 min Scan# 1446

Delta R.T. -0.02 min

Lab File: BE091936.D

Acq: 16 Jun 2016 13:12



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 22.3  | 19.5  | 29.3  |
| 138     | 23.1  | 17.7  | 26.5  |

