

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE022017\  
 Data File : BE092751.D  
 Acq On : 20 Feb 2017 17:15  
 Operator : SJ/MA  
 Sample : I1899-02MS 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SS050SS218(0-6)-170216

Manual Integrations  
 APPROVED

mohammad  
 2/21/2017 10:38:35 AM

Quant Time: Feb 21 00:33:33 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE021517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 15 17:05:20 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.10  | 152  | 12734    | 5.00  | ng    | -0.02       |
| 7) Naphthalene-d8              | 10.87 | 136  | 61296    | 5.00  | ng    | -0.02       |
| 12) Acenaphthene-d10           | 14.76 | 164  | 36651    | 5.00  | ng    | 0.00        |
| 18) Phenanthrene-d10           | 17.51 | 188  | 80451    | 5.00  | ng    | 0.00        |
| 24) Chrysene-d12               | 21.70 | 240  | 67683    | 5.00  | ng    | 0.00        |
| 31) Perylene-d12               | 24.03 | 264  | 78140    | 5.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 4) 2-Fluorophenol              | 5.61  | 112  | 6861     | 2.77  | ng    | -0.02       |
| 5) Phenol-d6                   | 7.27  | 99   | 9420     | 3.10  | ng    | -0.04       |
| 8) Nitrobenzene-d5             | 9.27  | 82   | 4718     | 1.20  | ng    | -0.05       |
| 13) 2,4,6-Tribromophenol       | 16.25 | 330  | 2315     | 2.98  | ng    | -0.03       |
| 14) 2-Fluorobiphenyl           | 13.38 | 172  | 9682     | 1.08  | ng    | -0.02       |
| 26) Terphenyl-d14              | 20.12 | 244  | 11409    | 1.32  | ng    | -0.02       |
| Target Compounds               |       |      |          |       |       |             |
| 2) 1,4-Dioxane                 | 3.34  | 88   | 1391     | 0.84  | ng    | Qvalue # 65 |
| 3) n-Nitrosodimethylamine      | 3.70  | 42   | 2341     | 1.16  | ng    | 100         |
| 6) bis(2-Chloroethyl)ether     | 7.52  | 93   | 4406     | 1.31  | ng    | 90          |
| 9) Naphthalene                 | 10.93 | 128  | 14745    | 1.11  | ng    | 95          |
| 10) Hexachlorobutadiene        | 11.22 | 225  | 2174     | 1.11  | ng    | 99          |
| 11) 2-Methylnaphthalene        | 12.57 | 142  | 9495     | 1.14  | ng    | # 86        |
| 15) Acenaphthylene             | 14.48 | 152  | 86901    | 1.57  | ng    | 100         |
| 16) Acenaphthene               | 14.82 | 154  | 10849    | 1.35  | ng    | 95          |
| 17) Fluorene                   | 15.80 | 166  | 13380    | 1.30  | ng    | 98          |
| 19) Hexachlorobenzene          | 16.84 | 284  | 3071     | 0.99  | ng    | # 39        |
| 20) Pentachlorophenol          | 17.19 | 266  | 2521     | 2.93  | ng    | # 88        |
| 21) Phenanthrene               | 17.56 | 178  | 66048    | 3.45  | ng    | 95          |
| 22) Anthracene                 | 17.65 | 178  | 32380    | 1.84  | ng    | 99          |
| 23) Fluoranthene               | 19.54 | 202  | 980762   | 11.96 | ng    | 100         |
| 25) Pyrene                     | 19.92 | 202  | 931251   | 14.45 | ng    | 95          |
| 27) Benzo(a)anthracene         | 21.68 | 228  | 658503m  | 10.03 | ng    |             |
| 28) Chrysene                   | 21.72 | 228  | 515483m  | 6.62  | ng    |             |
| 29) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 59616    | 6.56  | ng    | # 73        |
| 30) Indeno(1,2,3-cd)pyrene     | 26.46 | 276  | 461711   | 5.71  | ng    | 99          |
| 32) Benzo(b)fluoranthene       | 23.30 | 252  | 224414m  | 10.89 | ng    |             |
| 33) Benzo(k)fluoranthene       | 23.35 | 252  | 75774m   | 3.47  | ng    |             |
| 34) Benzo(a)pyrene             | 23.91 | 252  | 148168   | 7.38  | ng    | 96          |
| 35) Dibenzo(a,h)anthracene     | 26.48 | 278  | 40886    | 2.07  | ng    | # 95        |
| 36) Benzo(g,h,i)perylene       | 27.23 | 276  | 434603   | 5.31  | ng    | 99          |

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

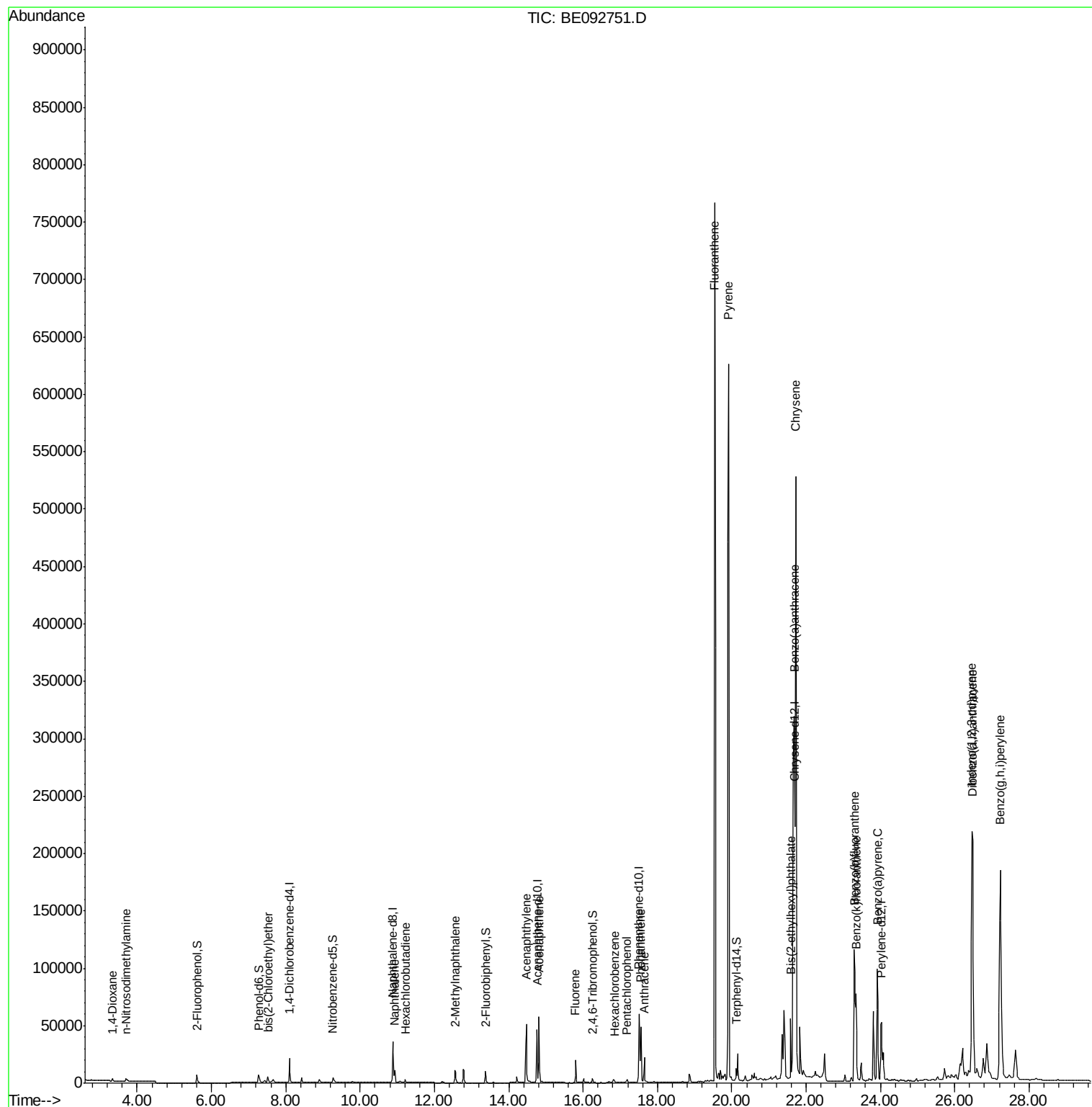
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE022017\  
Data File : BE092751.D  
Acq On : 20 Feb 2017 17:15  
Operator : SJ/MA  
Sample : I1899-02MS 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

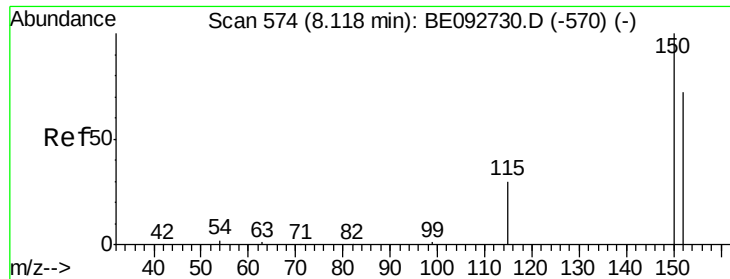
Instrument :  
BNA\_E  
ClientSampleId :  
SS050SS218(0-6)-170216

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Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE021517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 15 17:05:20 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.10 min Scan# 573

Delta R.T. -0.02 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

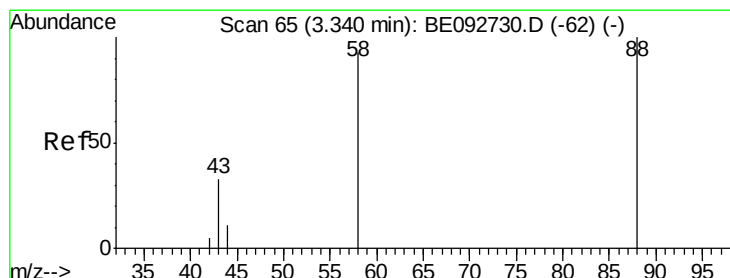
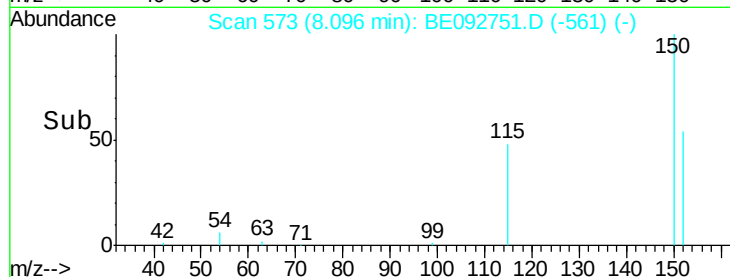
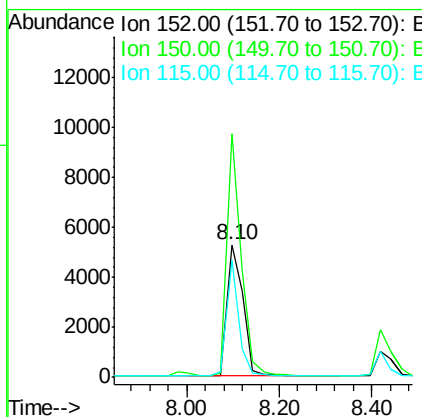
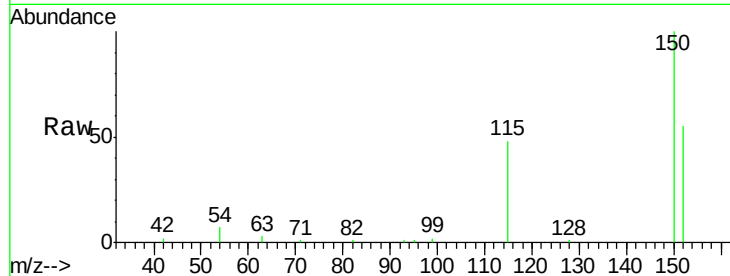
ClientSampleId :

SS050SS218(0-6)-170216

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 152     | 100   |       |        |
| 150     | 183.5 | 106.0 | 159.0# |
| 115     | 88.5  | 31.2  | 46.8#  |

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#2

1,4-Dioxane

Concen: 0.84 ng

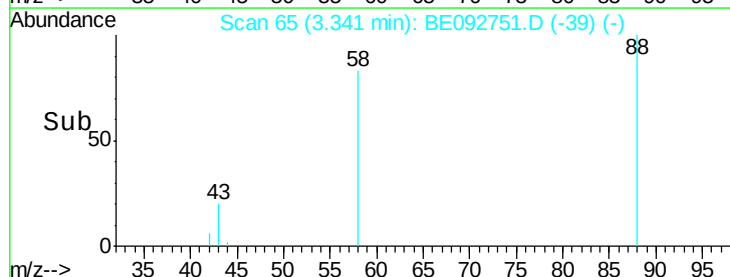
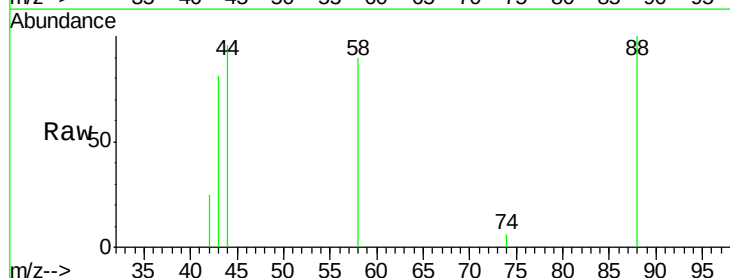
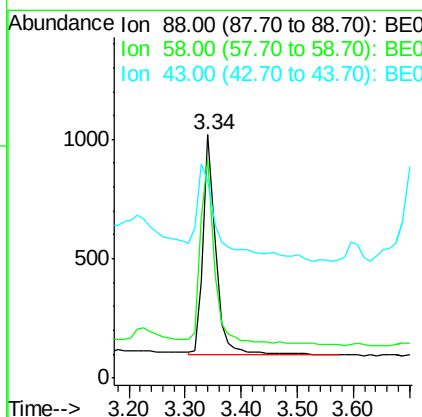
RT: 3.34 min Scan# 65

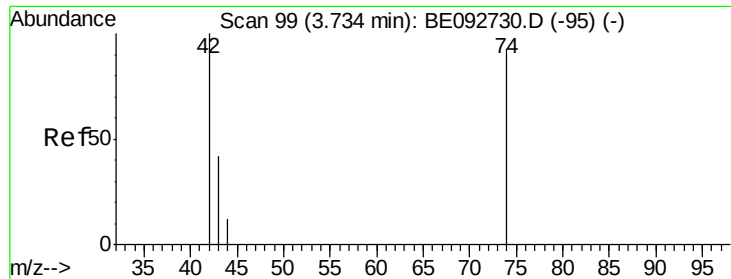
Delta R.T. 0.00 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 98.1  | 63.6  | 95.4# |
| 43      | 73.9  | 28.0  | 42.0# |





#3

n-Nitrosodimethylamine

Concen: 1.16 ng

RT: 3.70 min Scan# 96

Delta R.T. -0.03 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

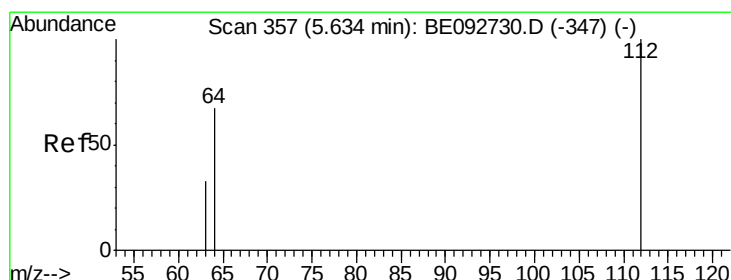
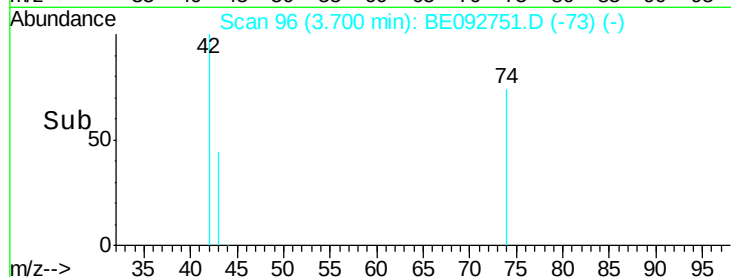
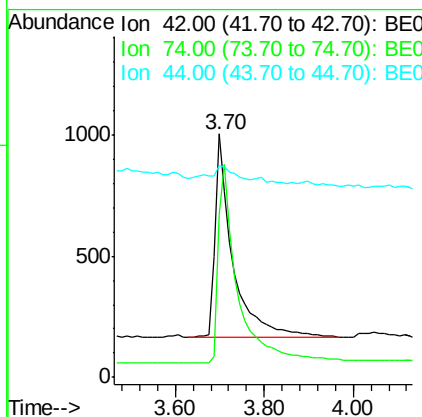
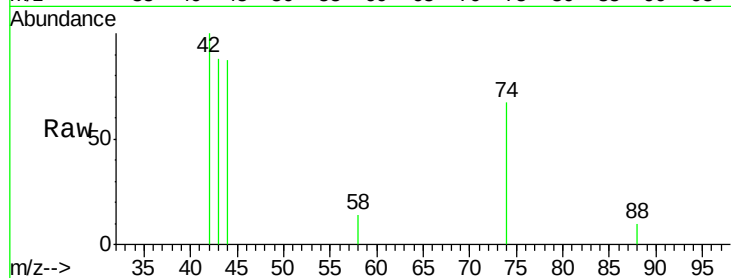
ClientSampleId :

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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 2341  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 107.7 | 86.0  | 129.0 |
| 44       | 6.7   | 5.1   | 7.7   |

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#4

2-Fluorophenol

Concen: 2.77 ng

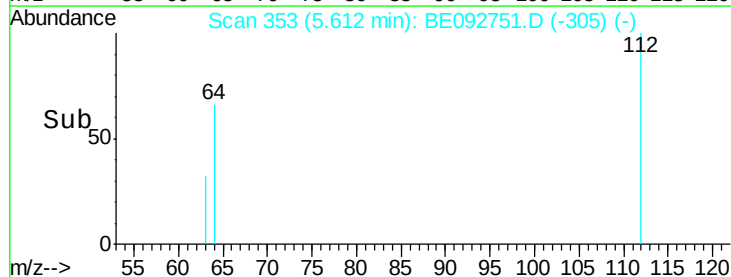
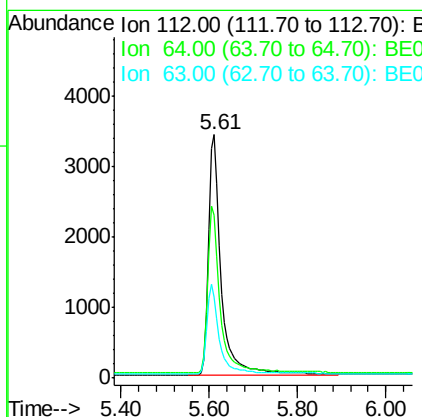
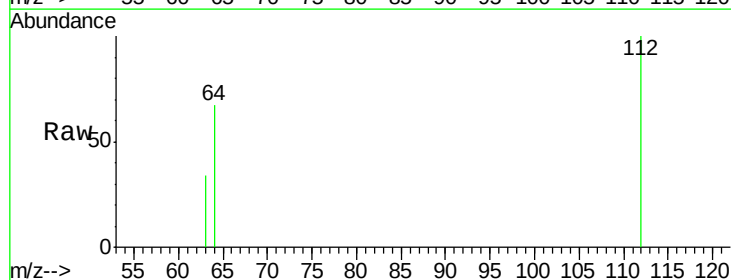
RT: 5.61 min Scan# 353

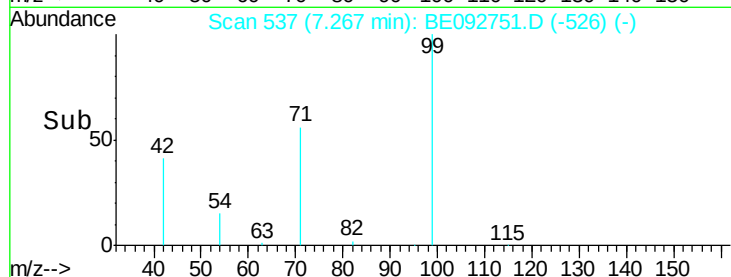
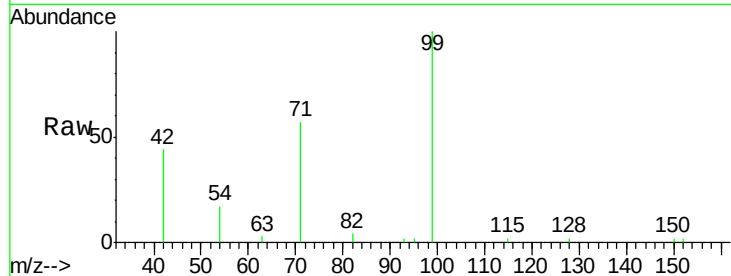
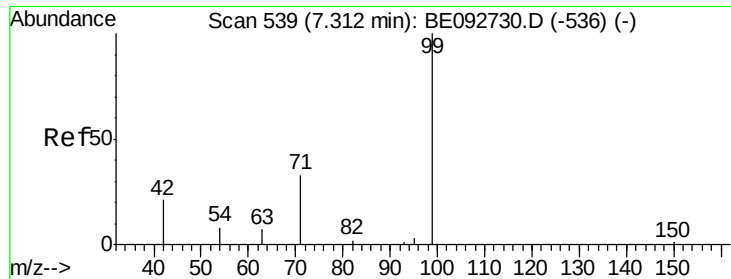
Delta R.T. -0.02 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 6861  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 68.3  | 53.5  | 80.3  |
| 63       | 36.6  | 27.9  | 41.9  |





#5

Phenol-d6

Concen: 3.10 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.04 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 9420  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 25.3  | 16.0  | 24.0# |
| 71       | 36.8  | 30.6  | 45.8  |

Instrument :

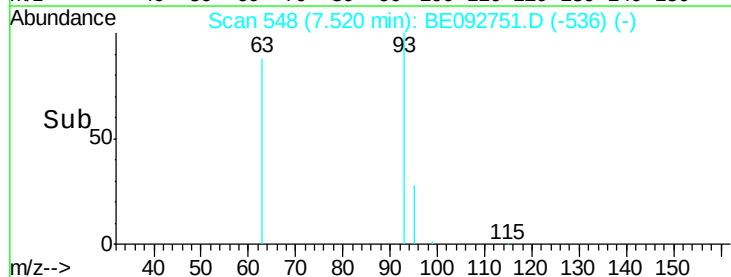
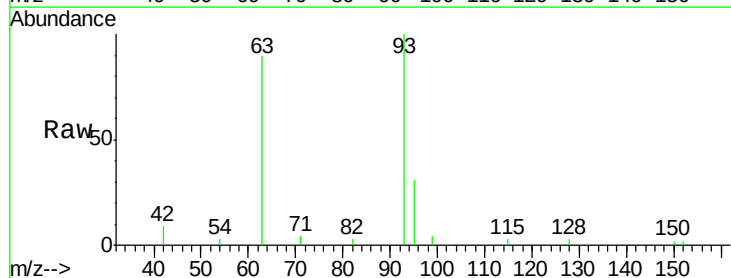
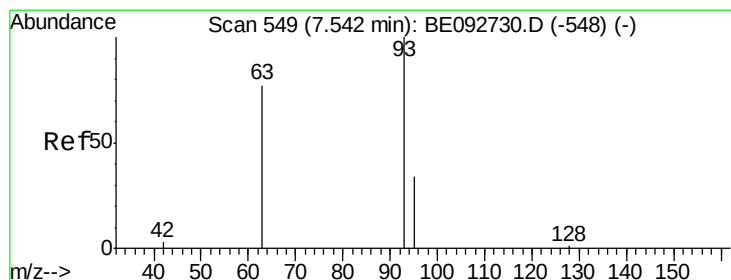
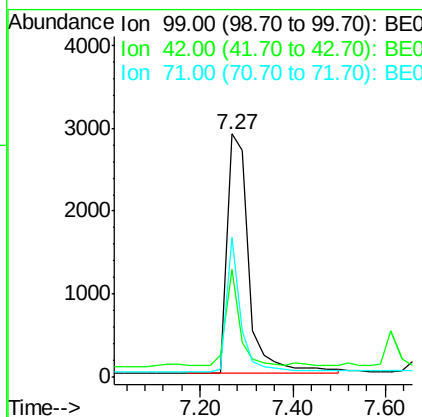
BNA\_E

ClientSampleId :

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#6

bis(2-Chloroethyl)ether

Concen: 1.31 ng

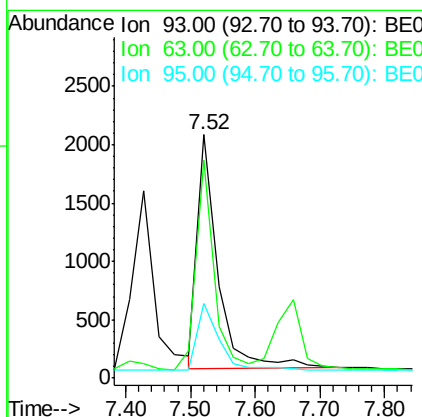
RT: 7.52 min Scan# 548

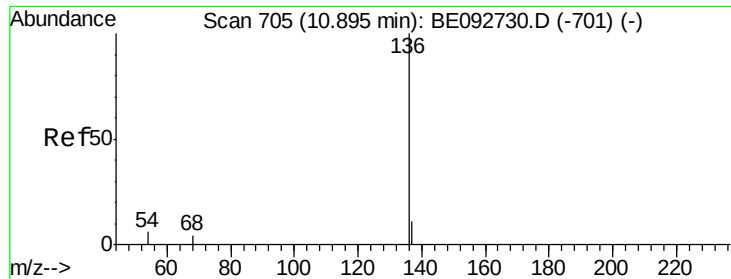
Delta R.T. -0.02 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 4406  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 78.3  | 71.6  | 107.4 |
| 95       | 31.3  | 24.0  | 36.0  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.87 min Scan# 704

Delta R.T. -0.02 min

Lab File: BE092751.D

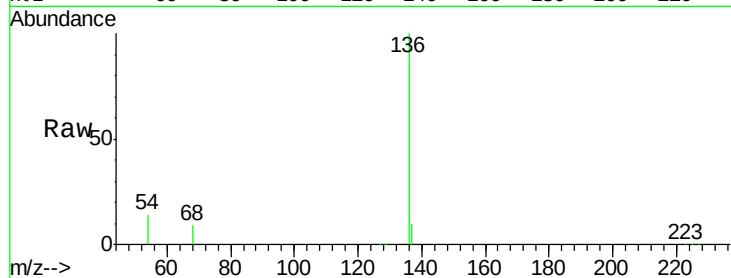
Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

ClientSampleId :

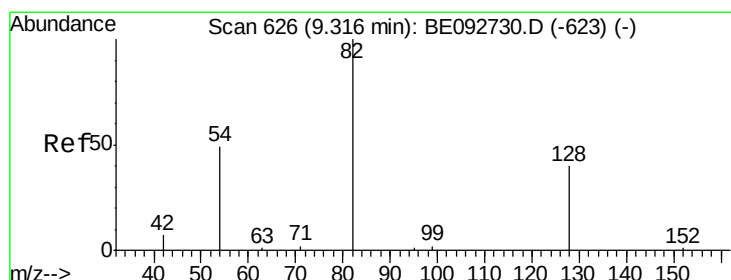
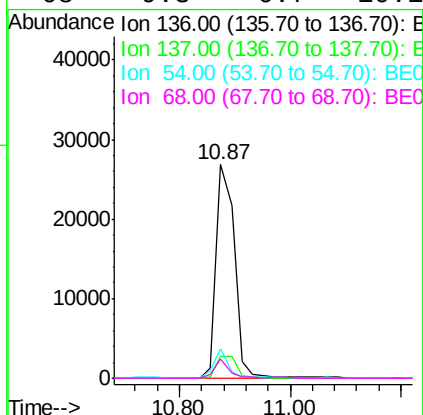
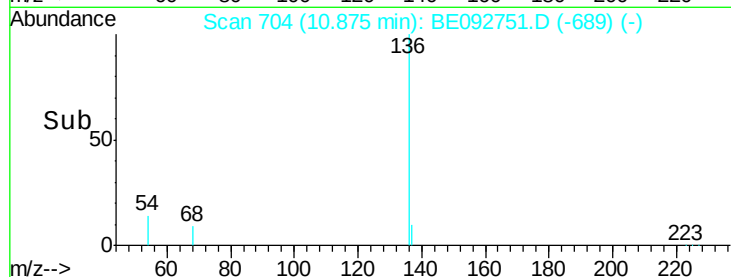
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| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 136     | 100   | 61296 |       |       |
| 137     | 10.0  |       | 8.2   | 12.4  |
| 54      | 13.9  |       | 9.6   | 14.4  |
| 68      | 9.3   |       | 6.7   | 10.1  |

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#8

Nitrobenzene-d5

Concen: 1.20 ng

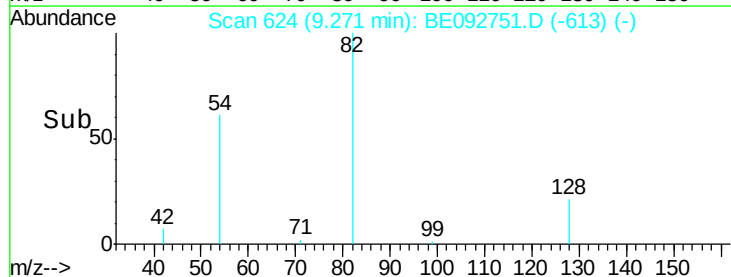
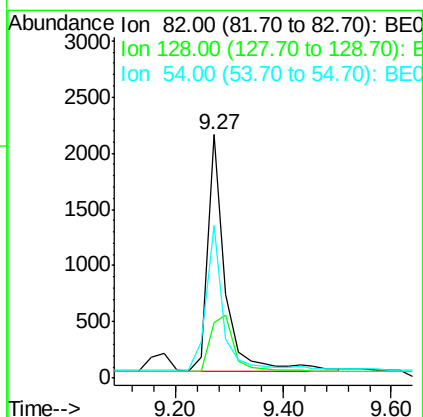
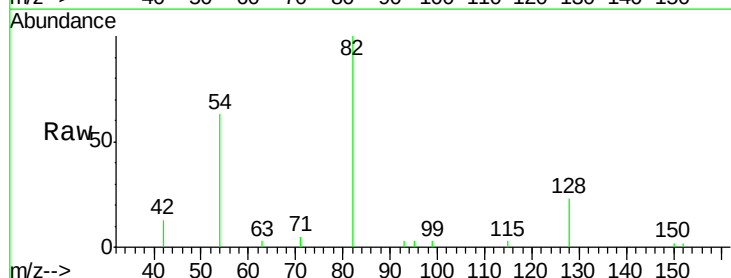
RT: 9.27 min Scan# 624

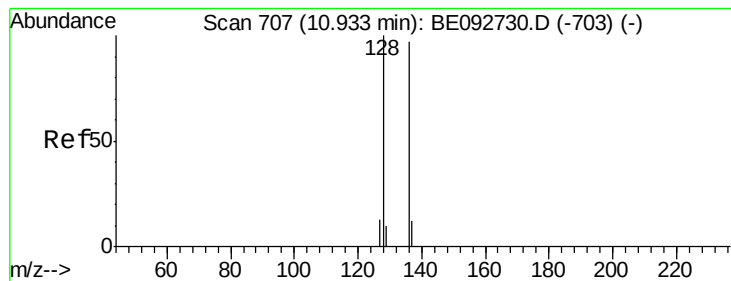
Delta R.T. -0.05 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   | 4718 |       |       |
| 128     | 22.8  |      | 39.0  | 58.4# |
| 54      | 62.6  |      | 44.8  | 67.2  |





#9

Naphthalene

Concen: 1.11 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

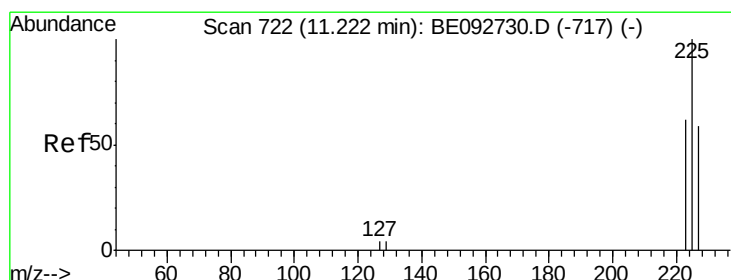
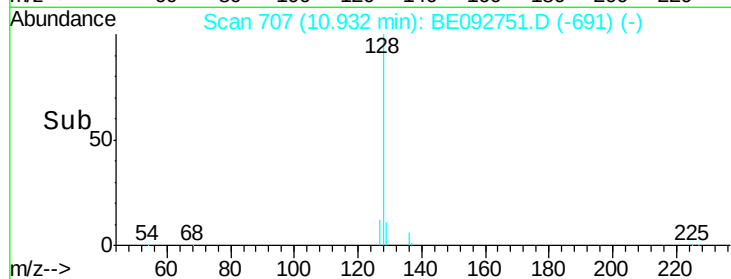
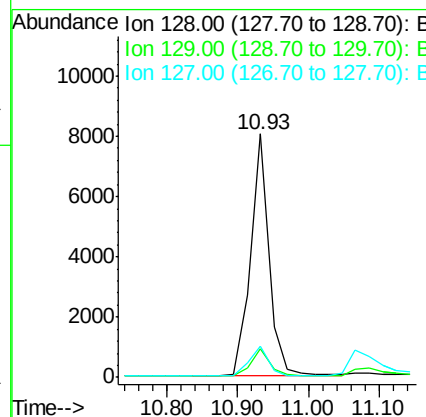
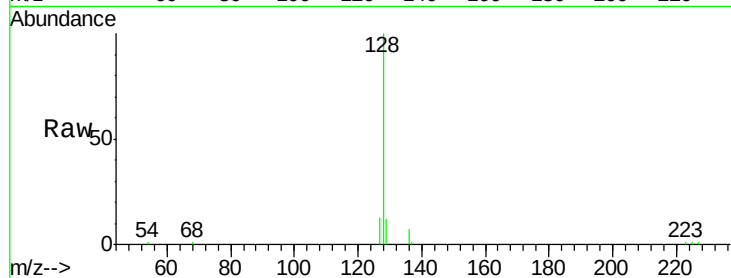
ClientSampleId :

SS050SS218(0-6)-170216

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 14745 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.8  | 11.2  | 16.8  |
| 127       | 12.6  | 11.6  | 17.4  |

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#10

Hexachlorobutadiene

Concen: 1.11 ng

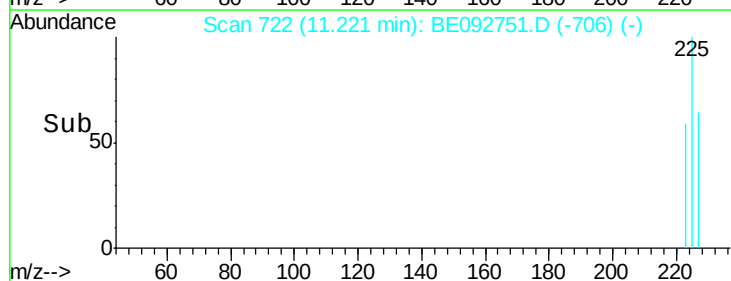
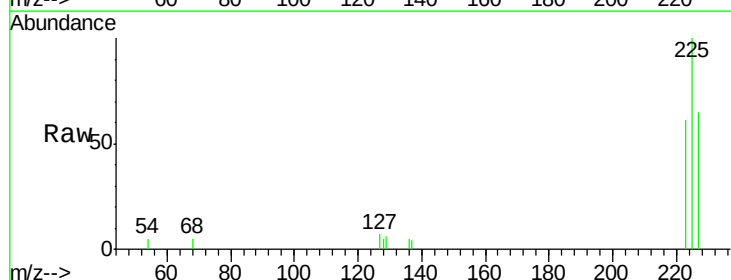
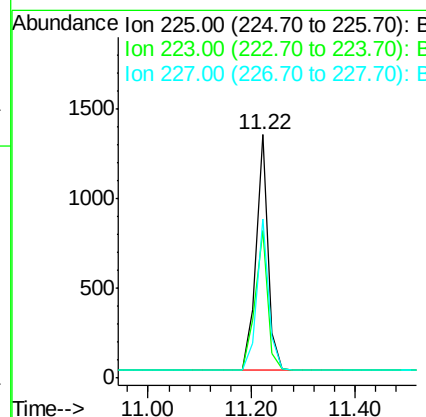
RT: 11.22 min Scan# 722

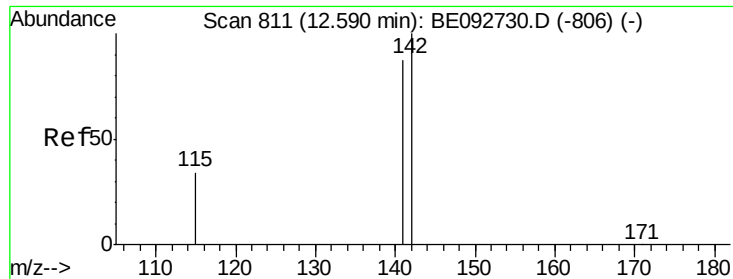
Delta R.T. -0.00 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 2174 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 62.1  | 50.6  | 76.0 |
| 227       | 63.6  | 51.4  | 77.0 |





#11

2-Methylnaphthalene

Concen: 1.14 ng

RT: 12.57 min Scan# 809

Delta R.T. -0.02 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

ClientSampleId :

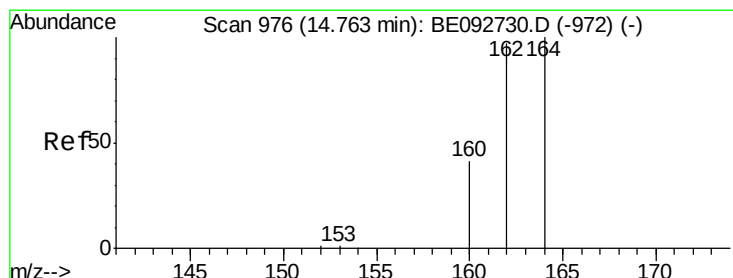
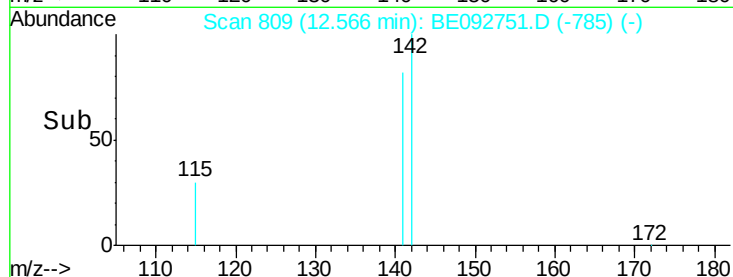
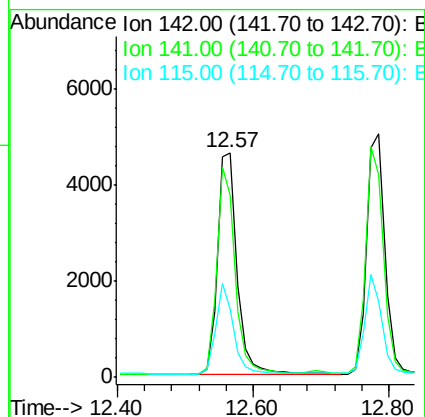
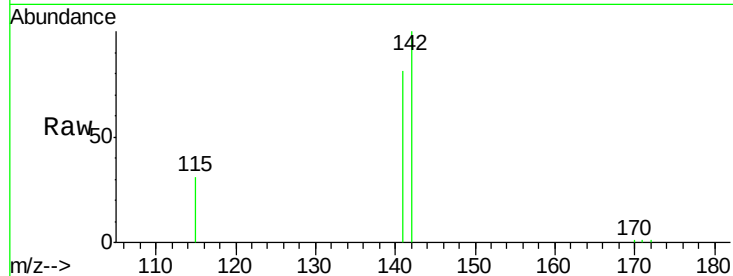
SS050SS218(0-6)-170216

Tgt Ion:142 Resp: 9495

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 81.2  | 73.7  | 110.5 |
| 115 | 30.5  | 34.0  | 51.0# |

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.76 min Scan# 977

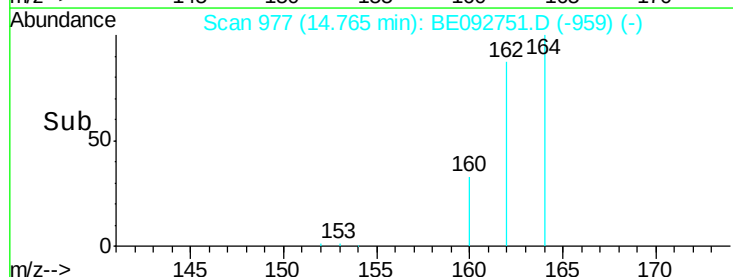
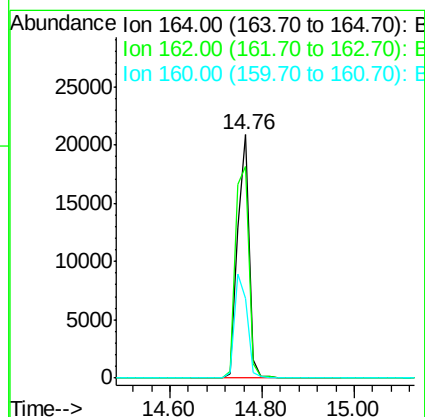
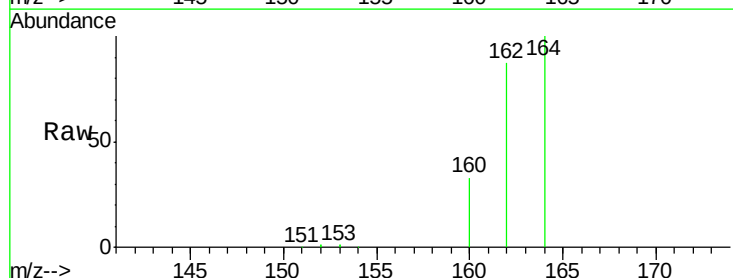
Delta R.T. 0.00 min

Lab File: BE092751.D

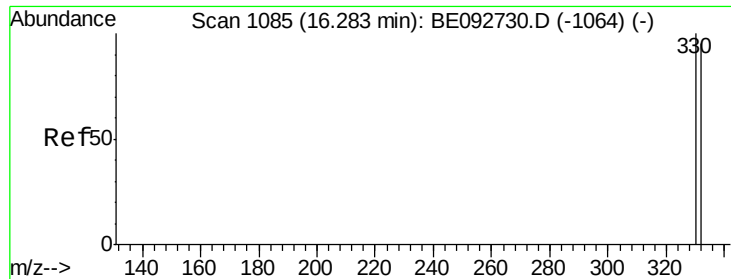
Acq: 20 Feb 2017 17:15

Tgt Ion:164 Resp: 36651

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 87.1  | 71.4  | 107.0 |
| 160 | 32.8  | 27.4  | 41.2  |







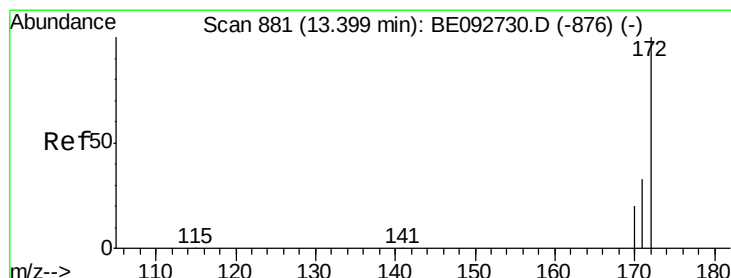
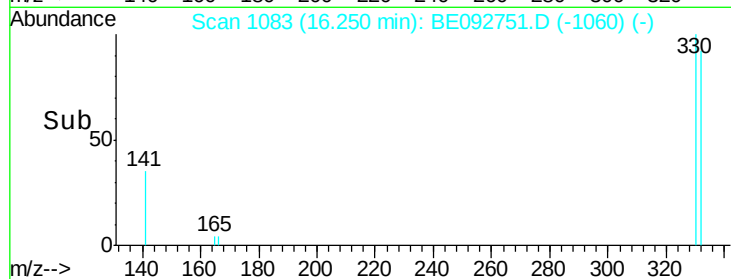
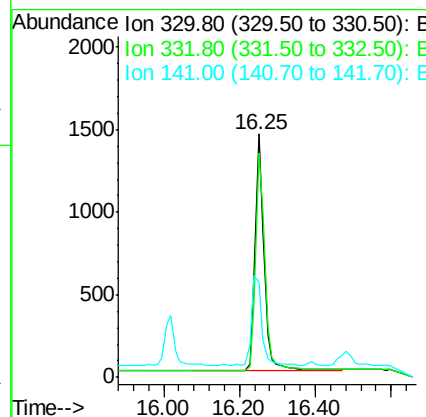
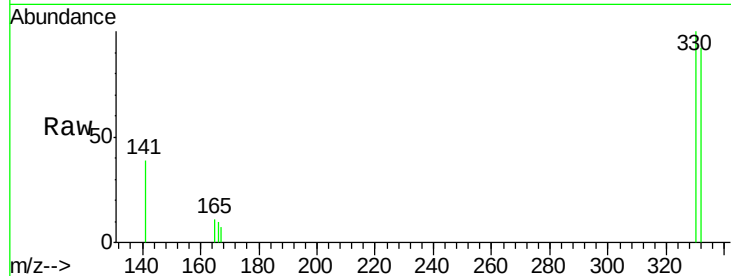
#13  
 2,4,6-Tribromophenol  
 Concen: 2.98 ng  
 RT: 16.25 min Scan# 1083  
 Delta R.T. -0.03 min  
 Lab File: BE092751.D  
 Acq: 20 Feb 2017 17:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SS050SS218(0-6)-170216

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.4  | 75.4  | 113.0 |
| 141     | 43.3  | 31.0  | 46.6  |

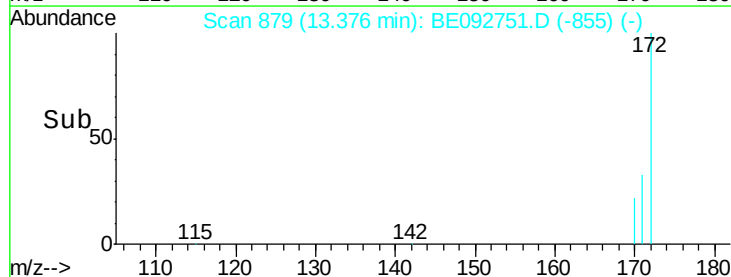
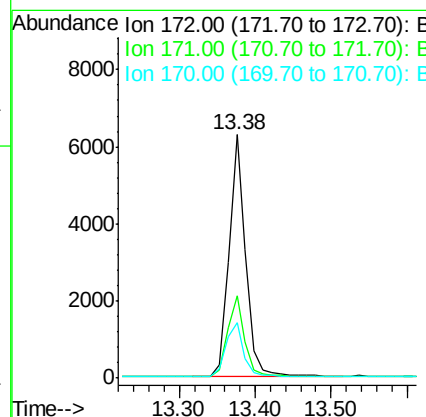
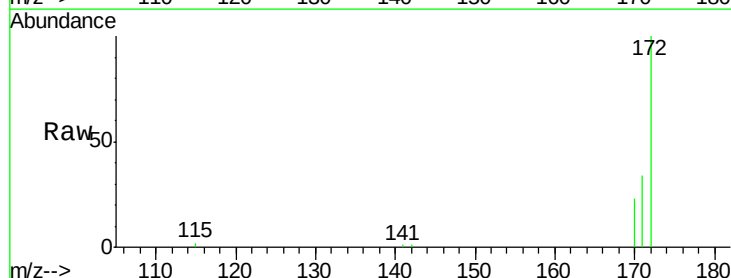
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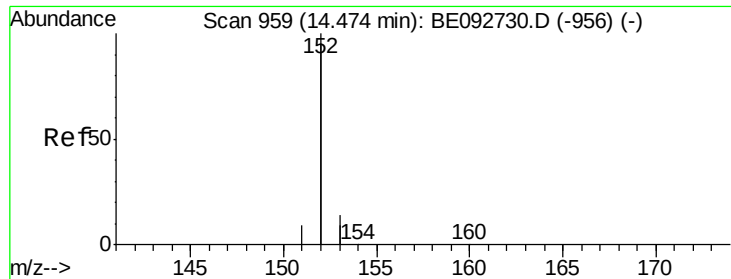
mohammad  
 2/21/2017 10:38:35 AM



#14  
 2-Fluorobiphenyl  
 Concen: 1.08 ng  
 RT: 13.38 min Scan# 879  
 Delta R.T. -0.02 min  
 Lab File: BE092751.D  
 Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.0  | 30.1  | 45.1  |
| 170     | 22.7  | 21.8  | 32.6  |





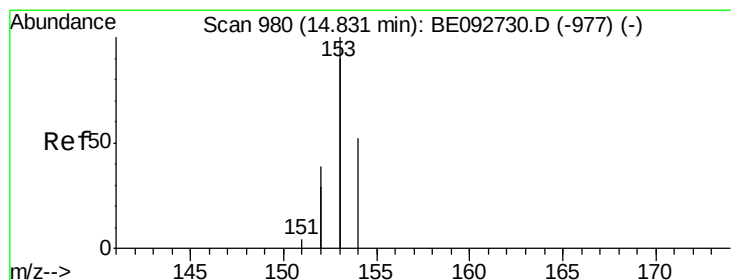
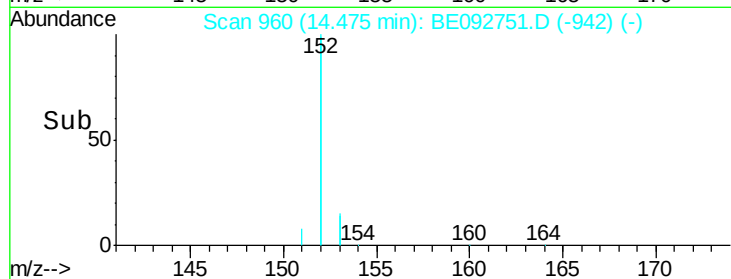
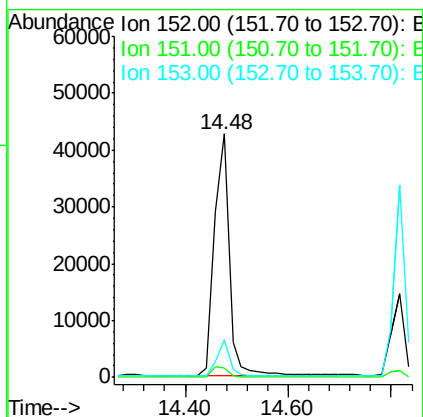
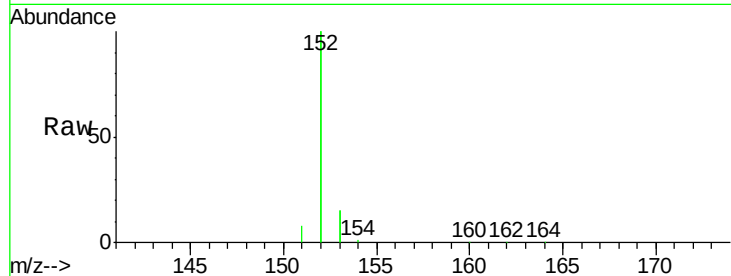
#15  
Acenaphthylene  
Concen: 1.57 ng  
RT: 14.48 min Scan# 960  
Delta R.T. 0.00 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

Instrument :  
BNA\_E  
ClientSampleId :  
SS050SS218(0-6)-170216

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 4.8   | 3.9   | 5.9   |
| 153     | 12.9  | 10.4  | 15.6  |

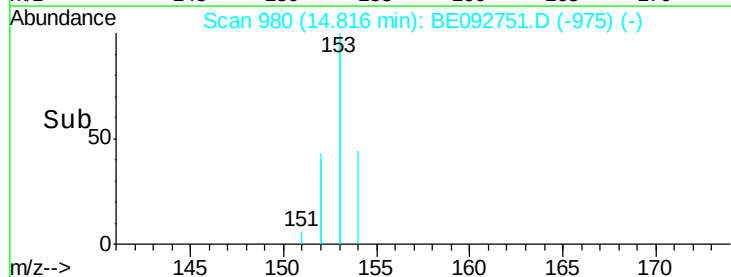
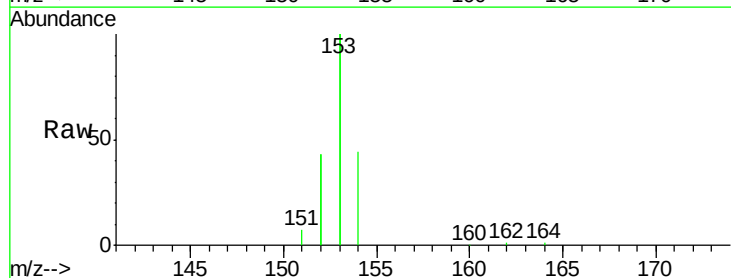
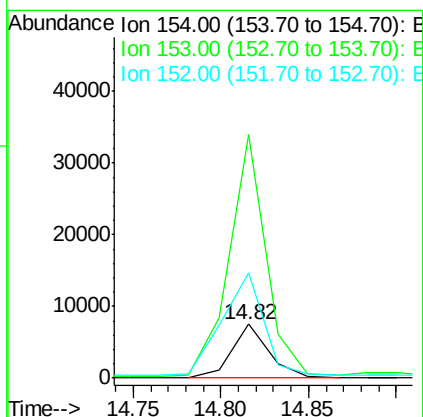
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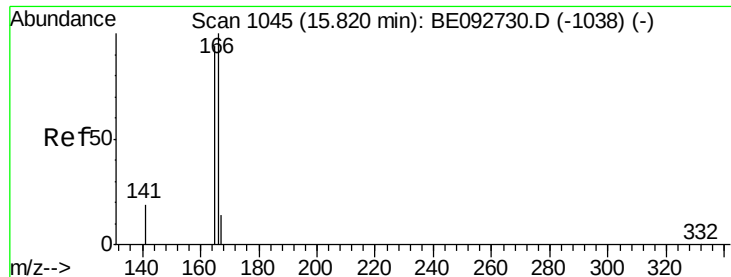
mohammad  
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#16  
Acenaphthene  
Concen: 1.35 ng  
RT: 14.82 min Scan# 980  
Delta R.T. -0.02 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 454.3 | 350.8 | 526.2 |
| 152     | 217.8 | 171.1 | 256.7 |





#17

Fluorene

Concen: 1.30 ng

RT: 15.80 min Scan# 1044

Delta R.T. -0.02 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

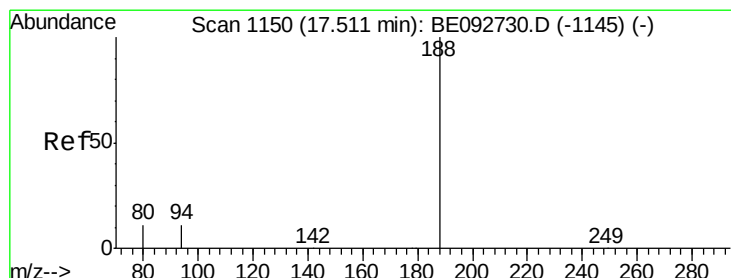
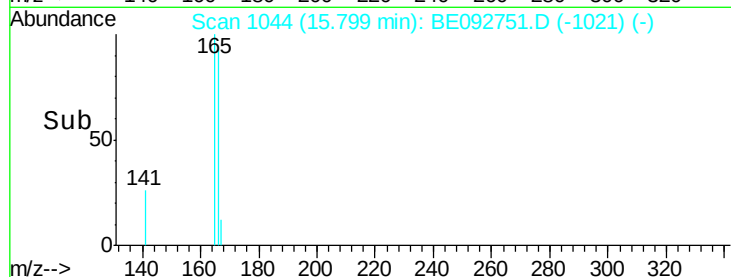
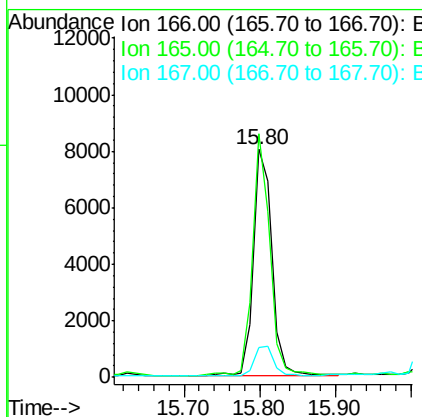
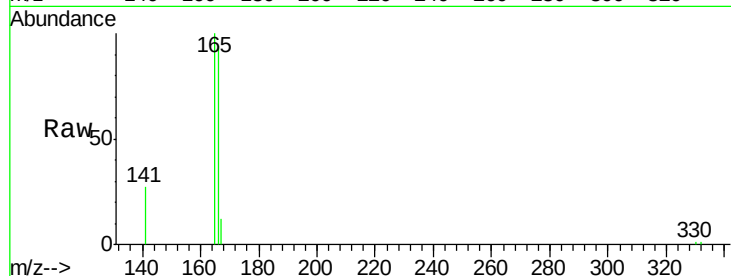
ClientSampleId :

SS050SS218(0-6)-170216

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 13380 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.4  | 78.2  | 117.4 |
| 167       | 13.5  | 11.0  | 16.4  |

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#18

Phenanthrene-d10

Concen: 5.00 ng

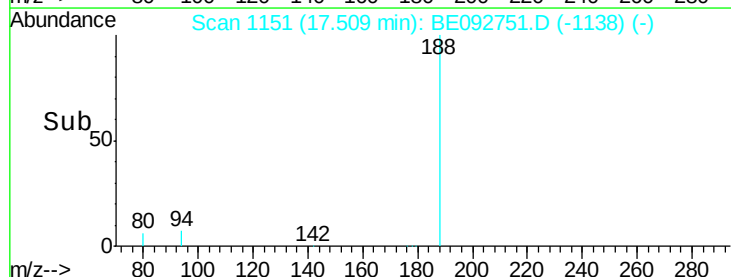
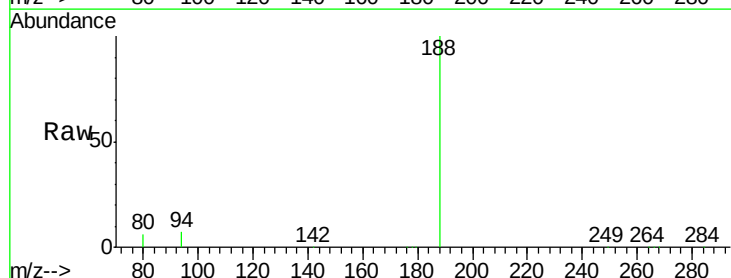
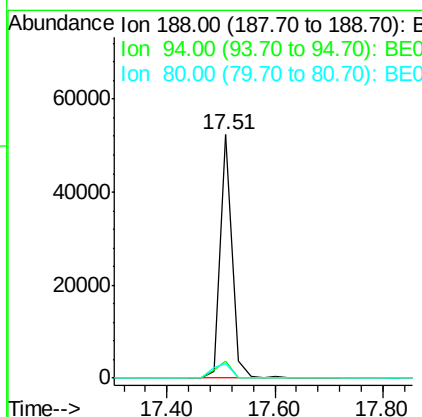
RT: 17.51 min Scan# 1151

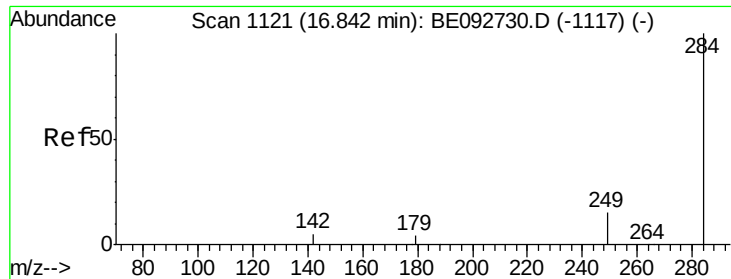
Delta R.T. -0.00 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 80451 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 7.1   | 3.2   | 4.8#  |
| 80        | 6.2   | 2.6   | 3.8#  |





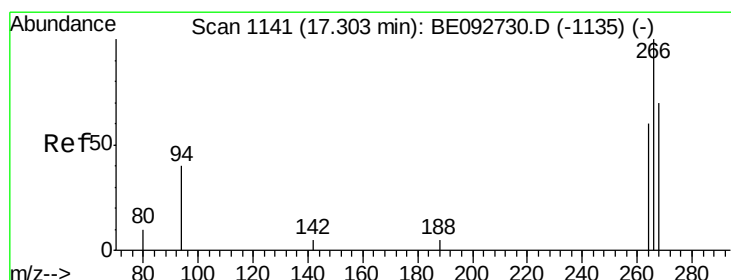
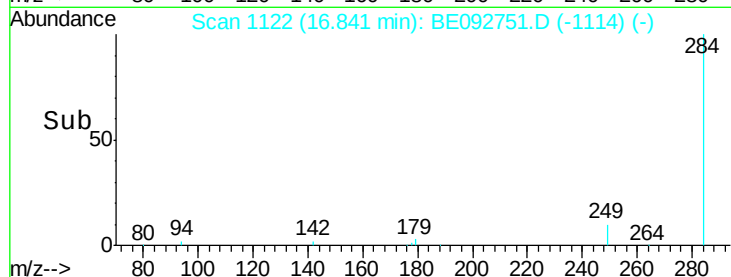
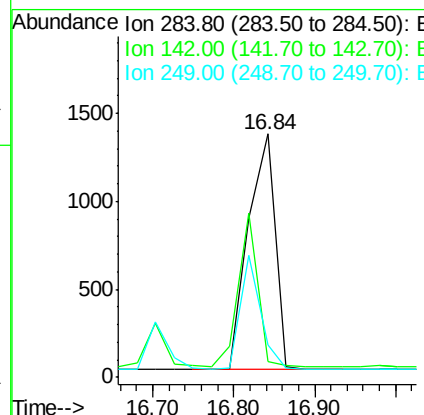
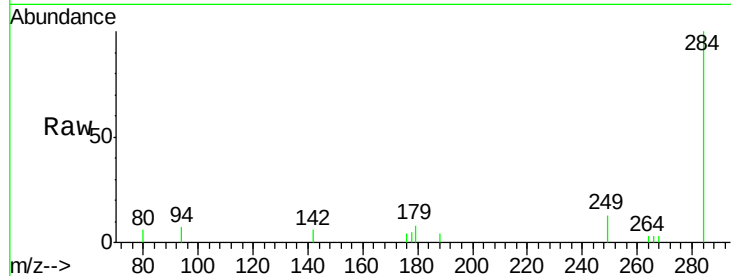
#19  
Hexachlorobenzene  
Concen: 0.99 ng  
RT: 16.84 min Scan# 1122  
Delta R.T. -0.00 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

Instrument :  
BNA\_E  
ClientSampleId :  
SS050SS218(0-6)-170216

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 284     | 100   | 3071 |       |       |
| 142     | 0.0   | 29.1 | 43.7# |       |
| 249     | 0.0   | 27.9 | 41.9# |       |

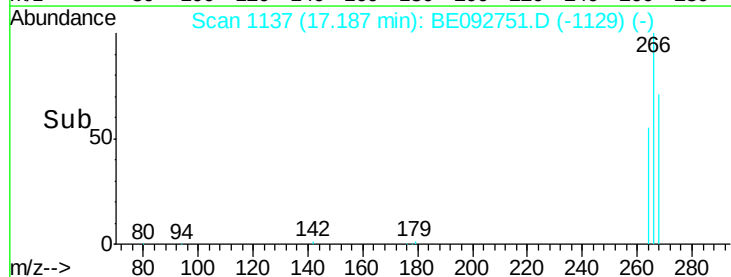
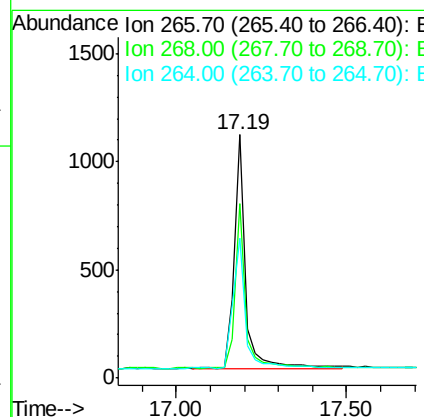
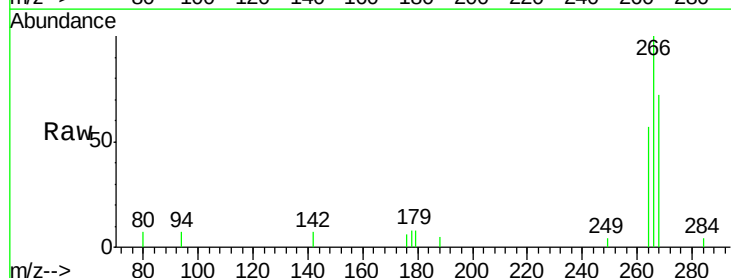
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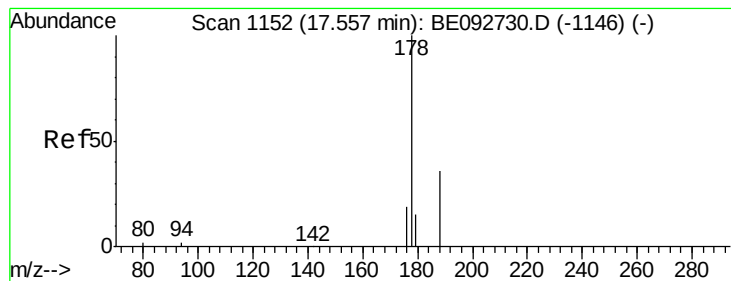
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#20  
Pentachlorophenol  
Concen: 2.93 ng  
RT: 17.19 min Scan# 1137  
Delta R.T. -0.12 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 266     | 100   | 2521 |       |       |
| 268     | 71.8  | 62.5 | 93.7  |       |
| 264     | 57.2  | 57.2 | 85.8# |       |





#21

Phenanthrene

Concen: 3.45 ng

RT: 17.56 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

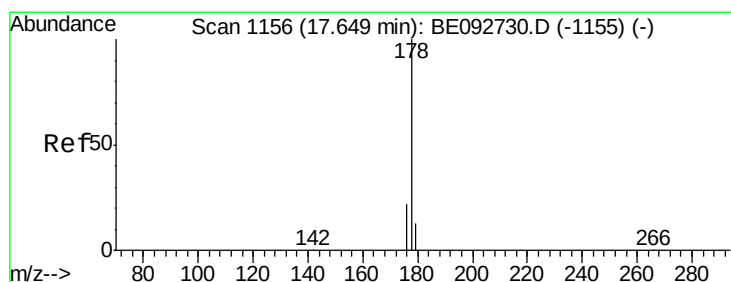
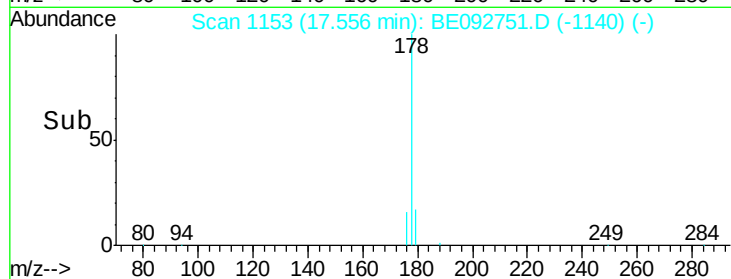
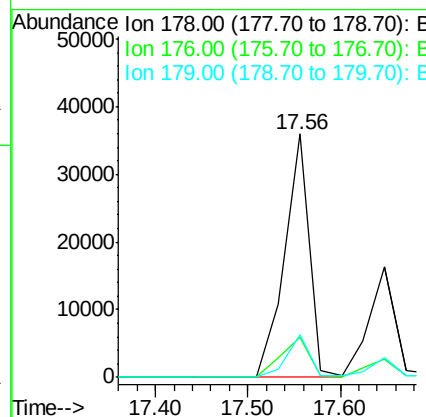
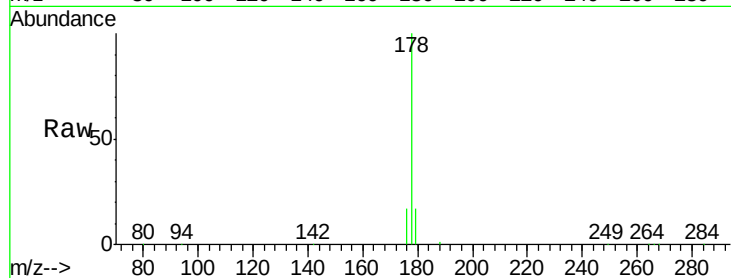
ClientSampleId :

SS050SS218(0-6)-170216

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.8  | 23.8  |
| 179     | 16.2  | 16.0  | 24.0  |

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#22

Anthracene

Concen: 1.84 ng

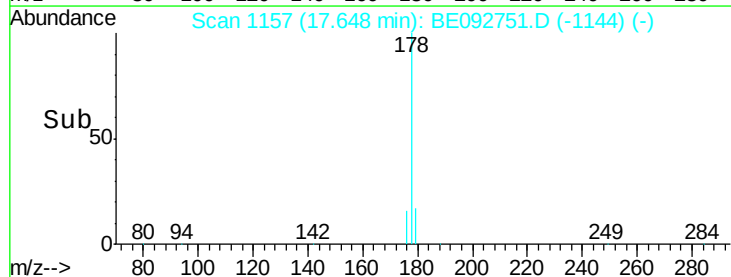
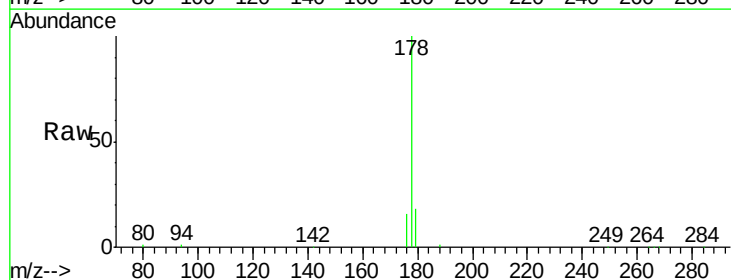
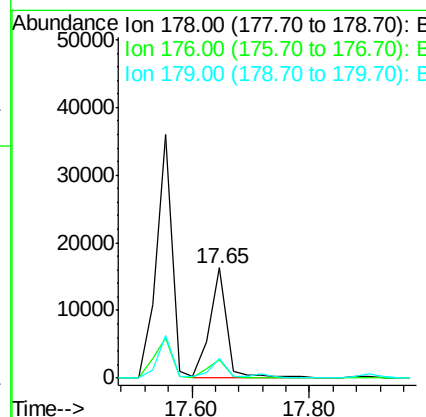
RT: 17.65 min Scan# 1157

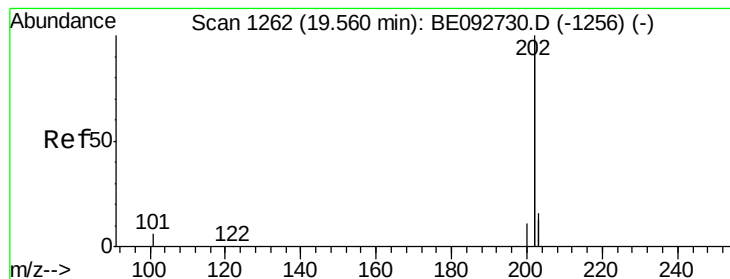
Delta R.T. -0.00 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.3  | 15.0  | 22.4  |
| 179     | 14.8  | 12.2  | 18.2  |





#23

Fluoranthene

Concen: 11.96 ng

RT: 19.54 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

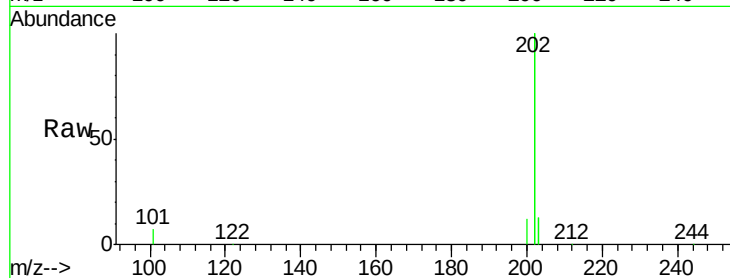
ClientSampleId :

SS050SS218(0-6)-170216

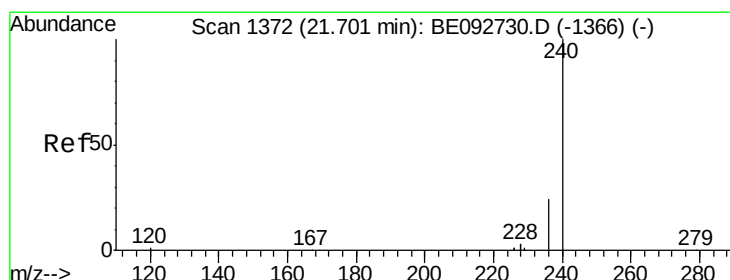
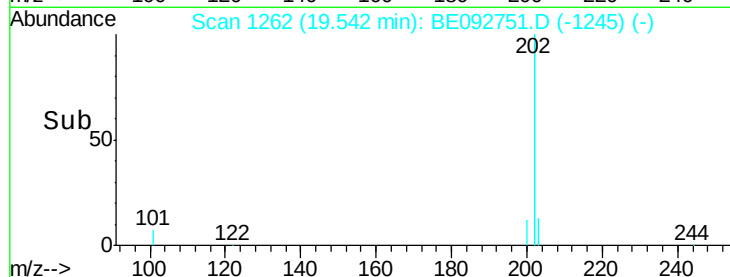
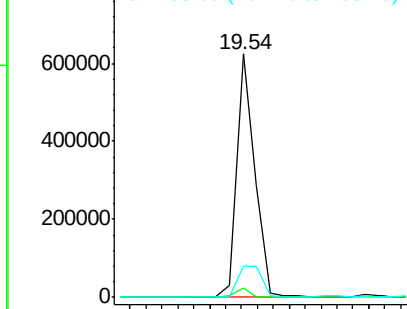
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 980762 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 3.1   | 2.2   | 3.4    |
| 203       | 17.2  | 13.7  | 20.5   |

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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.70 min Scan# 1373

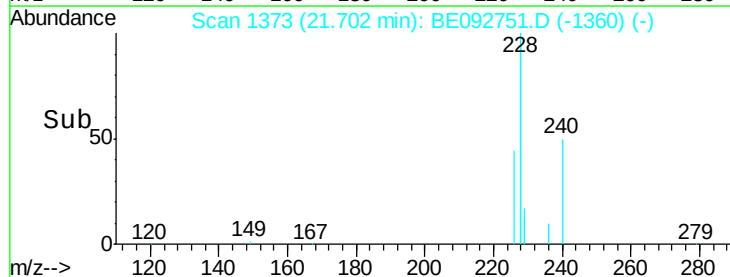
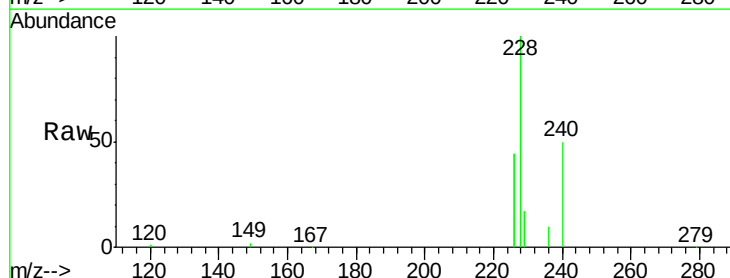
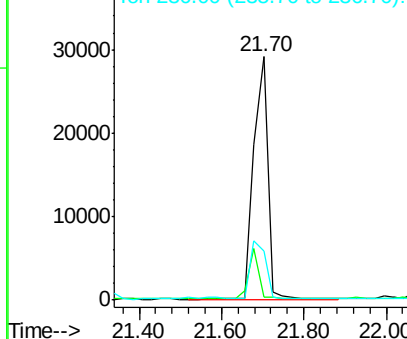
Delta R.T. 0.00 min

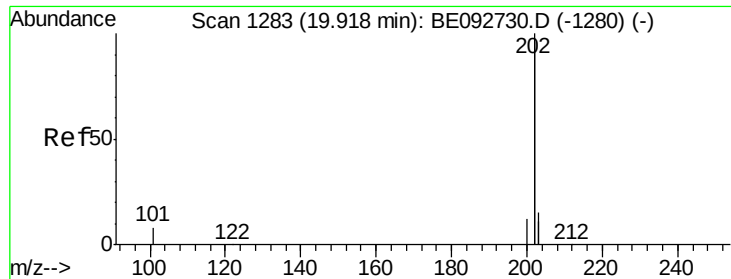
Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 67683 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 1.2   | 2.6   | 4.0#  |
| 236       | 20.2  | 24.6  | 37.0# |

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





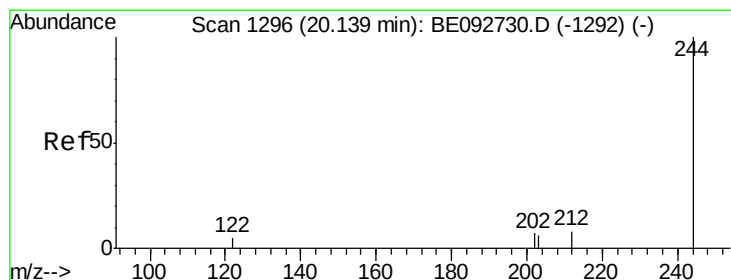
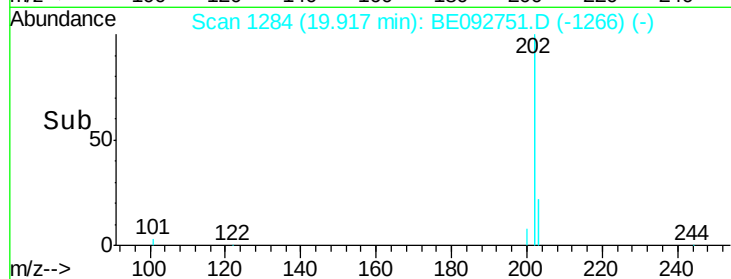
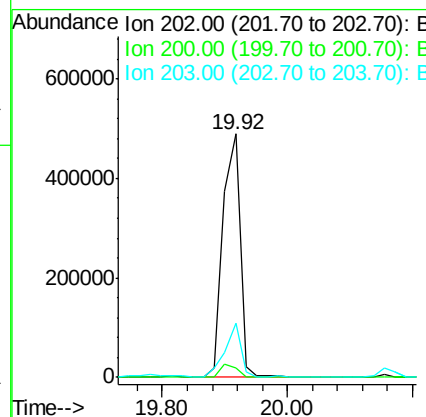
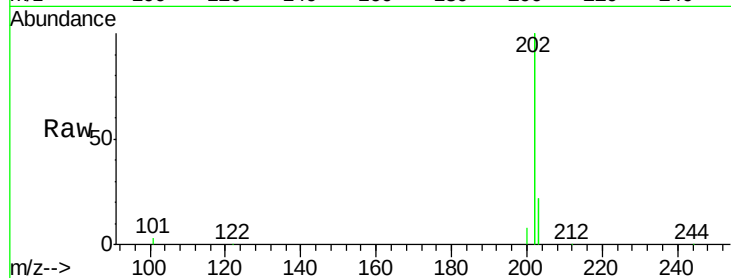
#25  
 Pyrene  
 Concen: 14.45 ng  
 RT: 19.92 min Scan# 1284  
 Delta R.T. -0.00 min  
 Lab File: BE092751.D  
 Acq: 20 Feb 2017 17:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SS050SS218(0-6)-170216

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 5.3   | 4.2        | 6.4        |
| 203     | 20.2  | 13.9       | 20.9       |

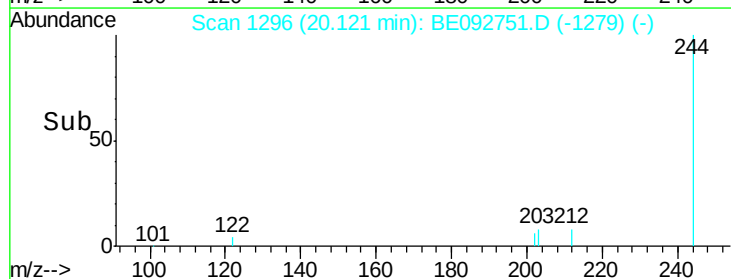
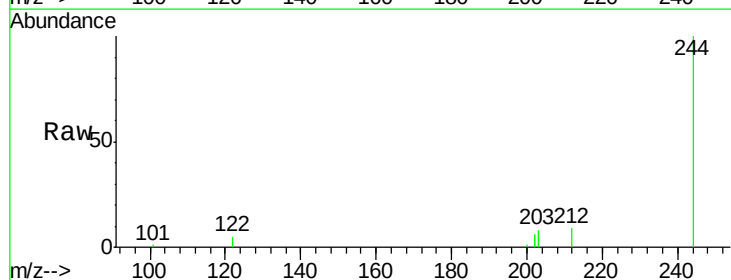
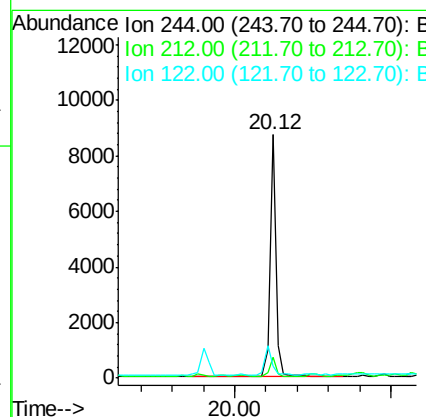
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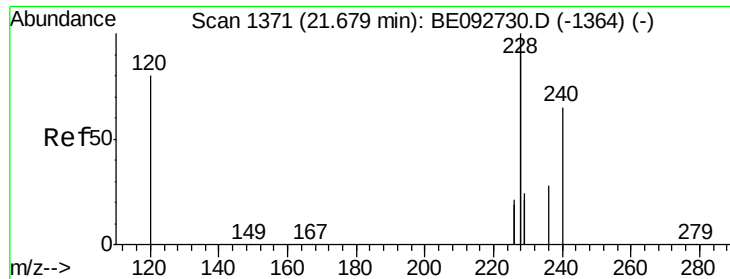
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#26  
 Terphenyl-d14  
 Concen: 1.32 ng  
 RT: 20.12 min Scan# 1296  
 Delta R.T. -0.02 min  
 Lab File: BE092751.D  
 Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 8.7   | 6.7        | 10.1       |
| 122     | 5.1   | 3.6        | 5.4        |





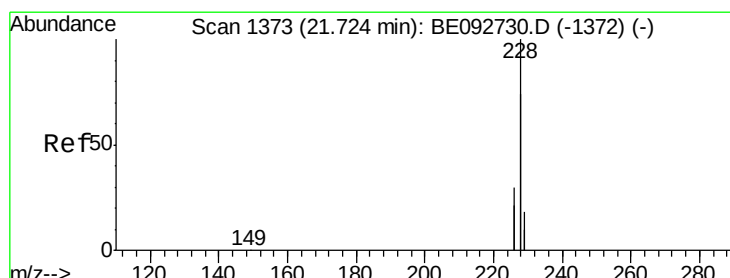
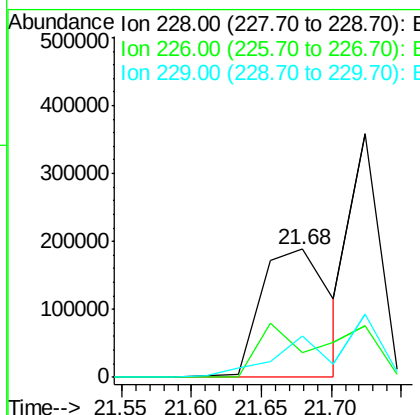
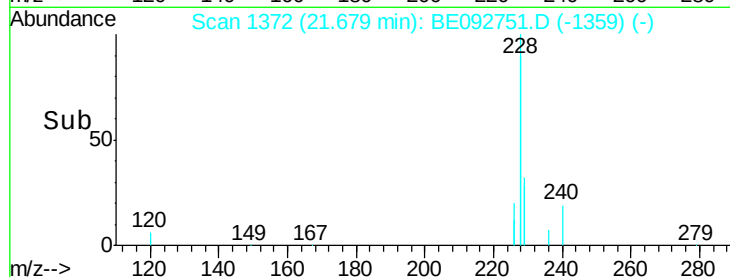
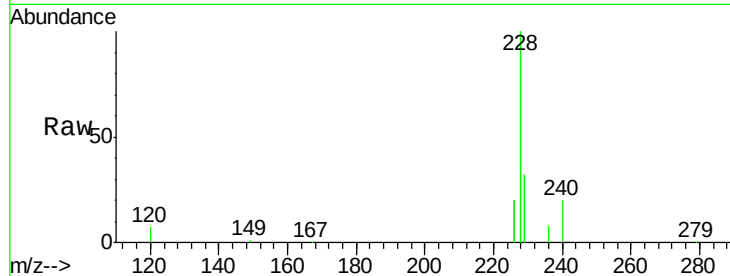
#27  
Benzo(a)anthracene  
Concen: 10.03 ng m  
RT: 21.68 min Scan# 1372  
Delta R.T. 0.00 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

Instrument :  
BNA\_E  
ClientSampleId :  
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Tgt Ion: 228 Resp: 658503  
Ion Ratio Lower Upper  
228 100  
226 19.5 23.6 35.4#  
229 32.4 13.3 19.9#

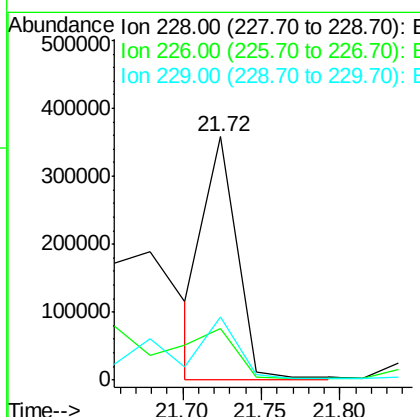
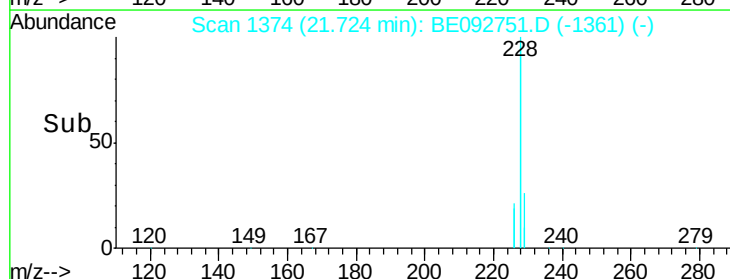
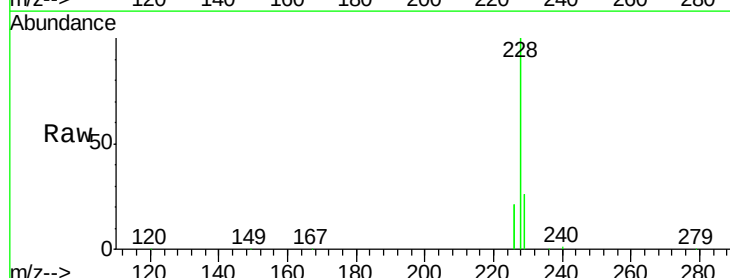
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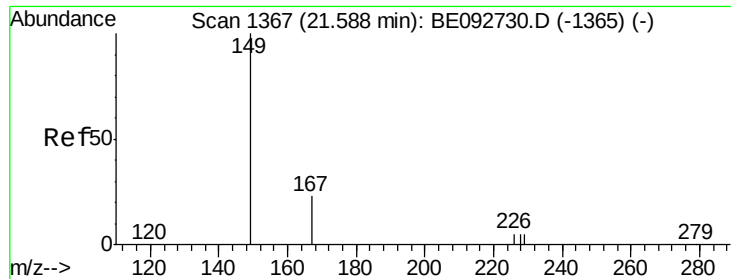


#28  
Chrysene  
Concen: 6.62 ng m  
RT: 21.72 min Scan# 1374  
Delta R.T. 0.00 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

Tgt Ion: 228 Resp: 515483  
Ion Ratio Lower Upper  
228 100  
226 21.1 36.3 54.5#  
229 25.7 10.6 16.0#







#29

Bis(2-ethylhexyl)phthalate

Concen: 6.56 ng

RT: 21.59 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

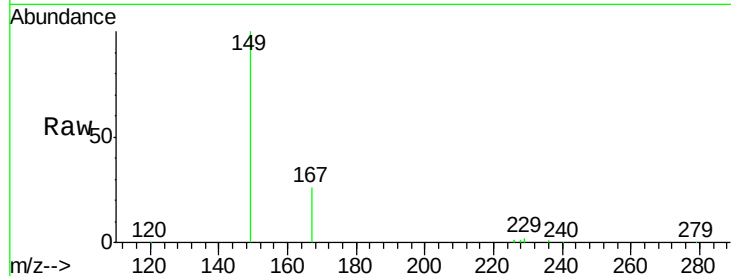
ClientSampleId :

SS050SS218(0-6)-170216

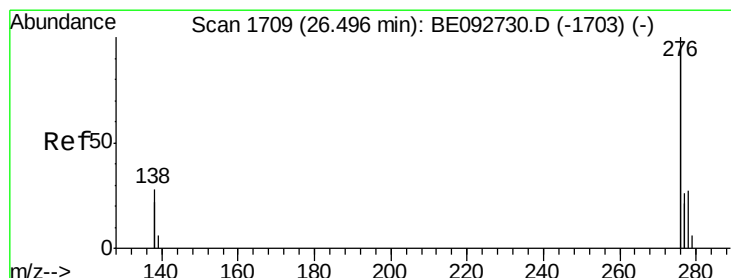
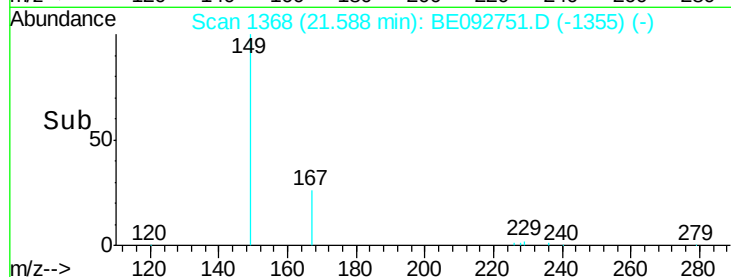
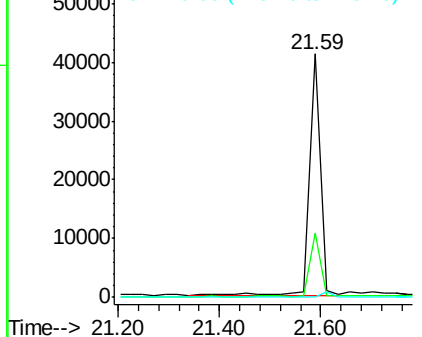
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 59616 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 25.2  | 16.0  | 24.0# |
| 279       | 0.0   | 16.0  | 24.0# |

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Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#30

Indeno(1,2,3-cd)pyrene

Concen: 5.71 ng

RT: 26.46 min Scan# 1708

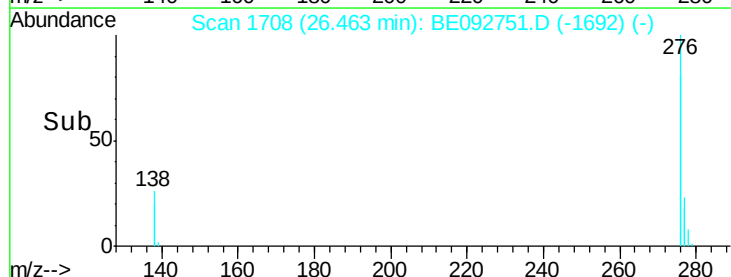
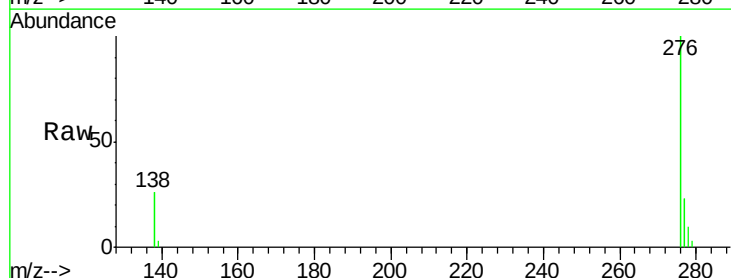
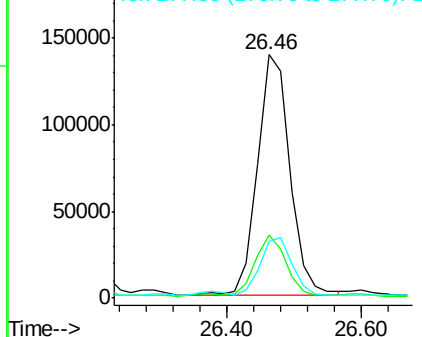
Delta R.T. -0.03 min

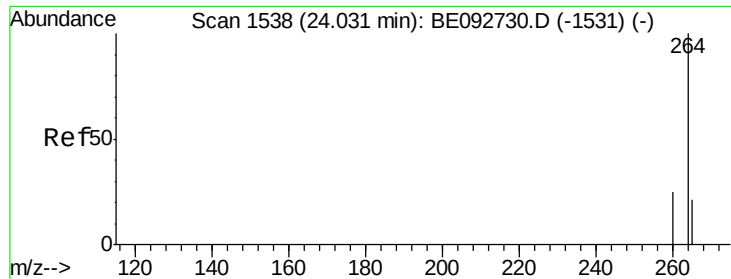
Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 461711 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 24.8  | 20.3  | 30.5   |
| 277       | 23.8  | 19.7  | 29.5   |

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





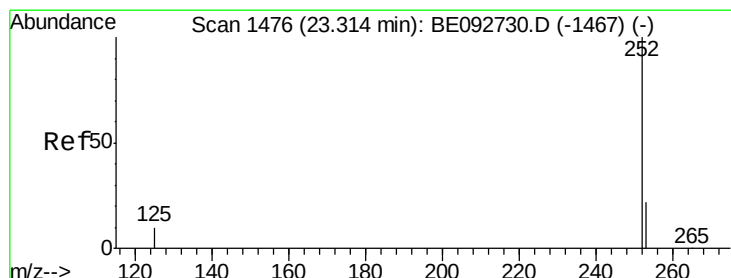
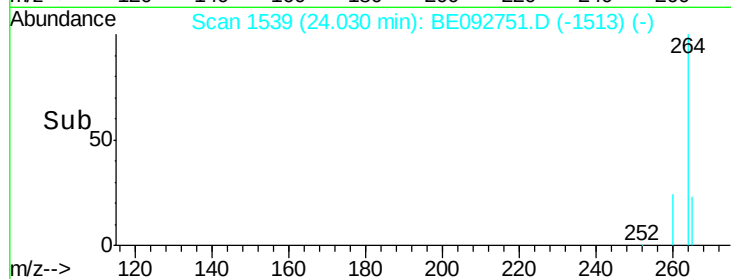
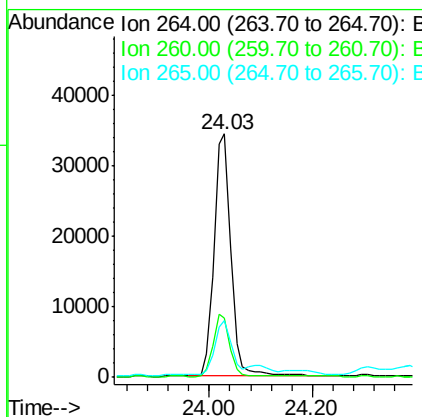
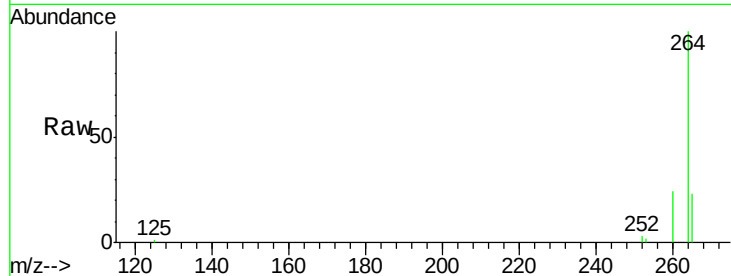
#31  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 24.03 min Scan# 1539  
 Delta R.T. -0.00 min  
 Lab File: BE092751.D  
 Acq: 20 Feb 2017 17:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 20.1  | 30.1  |
| 265     | 23.4  | 17.9  | 26.9  |

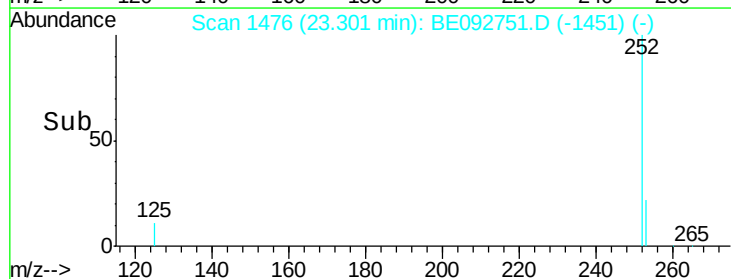
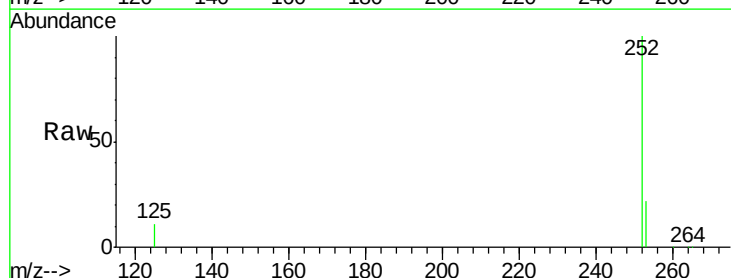
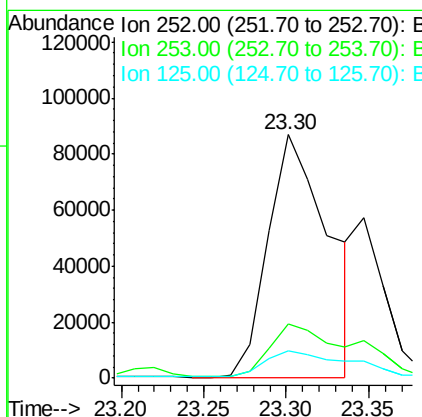
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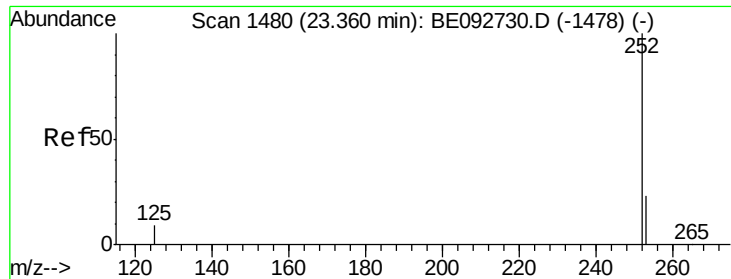
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#32  
**Benzo(b)fluoranthene**  
 Concen: 10.89 ng m  
 RT: 23.30 min Scan# 1476  
 Delta R.T. -0.01 min  
 Lab File: BE092751.D  
 Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 18.7  | 28.1  |
| 125     | 11.4  | 10.5  | 15.7  |





#33

Benzo(k)fluoranthene

Concen: 3.47 ng m

RT: 23.35 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BE092751.D

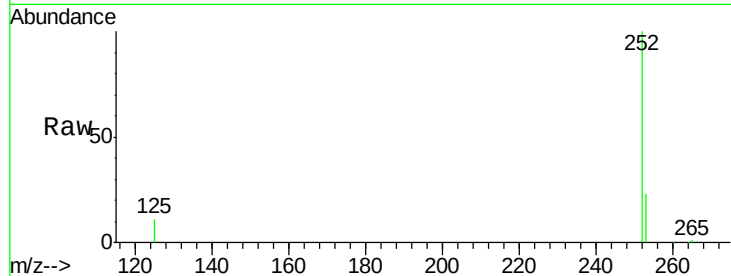
Acq: 20 Feb 2017 17:15

Instrument :

BNA\_E

ClientSampleId :

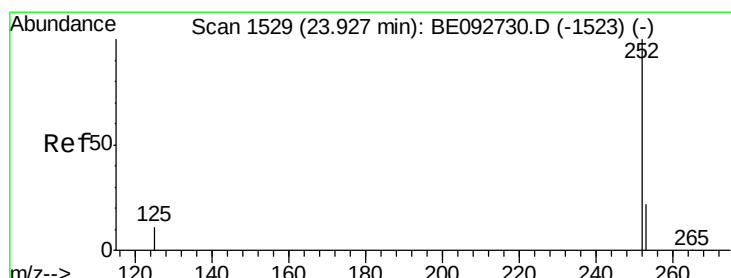
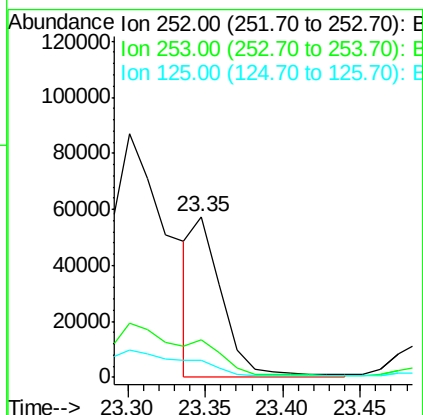
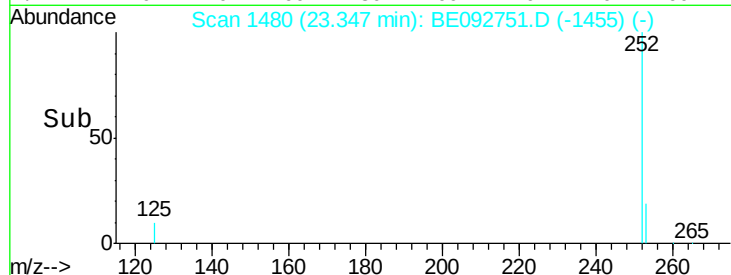
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 20.3  | 30.5  |
| 125     | 10.7  | 9.6   | 14.4  |

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#34

Benzo(a)pyrene

Concen: 7.38 ng

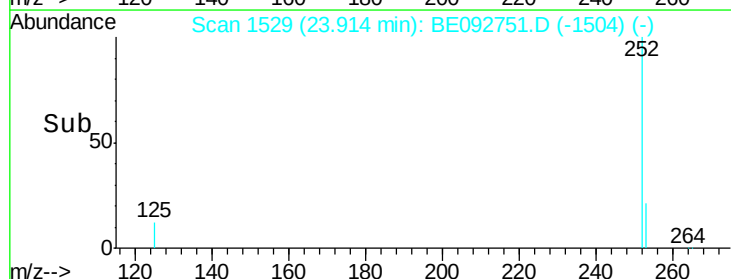
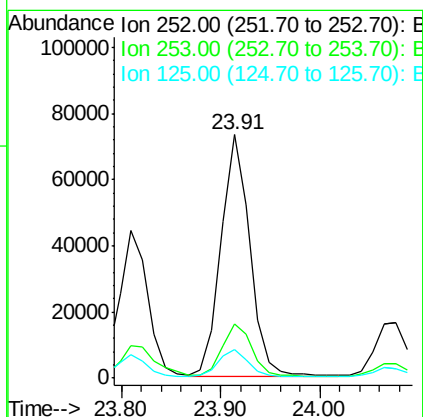
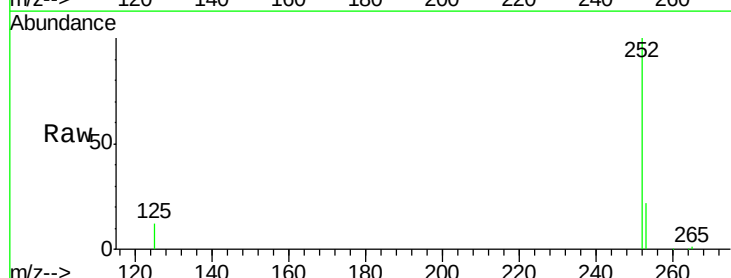
RT: 23.91 min Scan# 1529

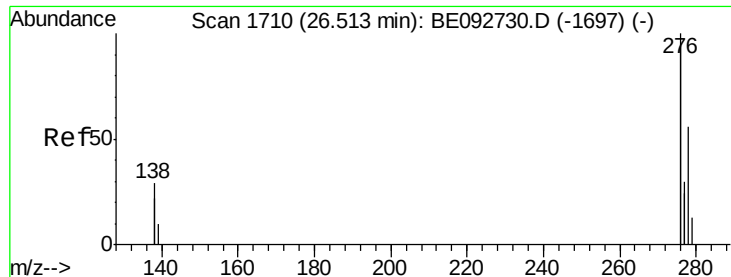
Delta R.T. -0.01 min

Lab File: BE092751.D

Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 19.0  | 28.6  |
| 125     | 12.0  | 11.8  | 17.8  |





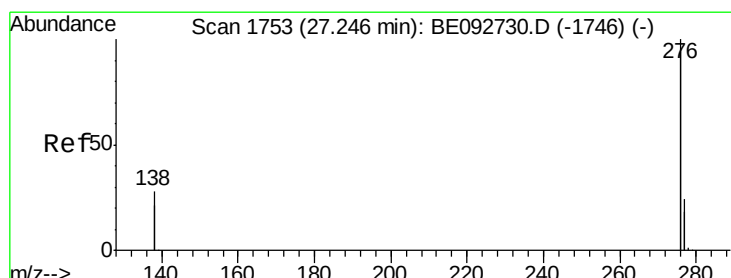
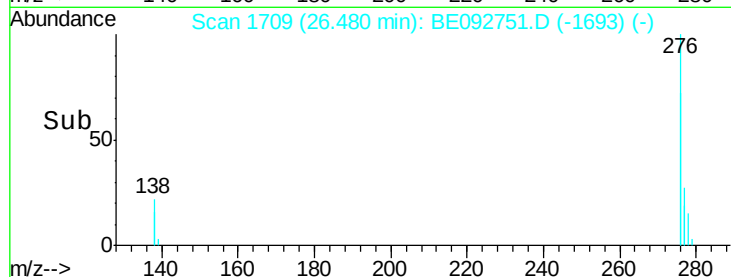
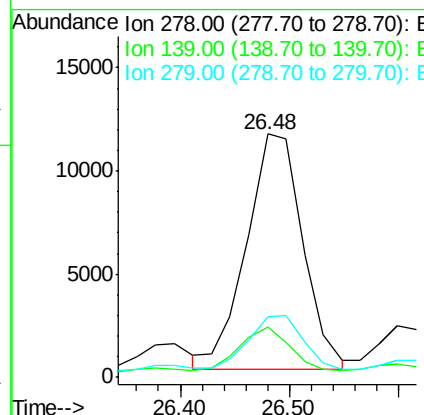
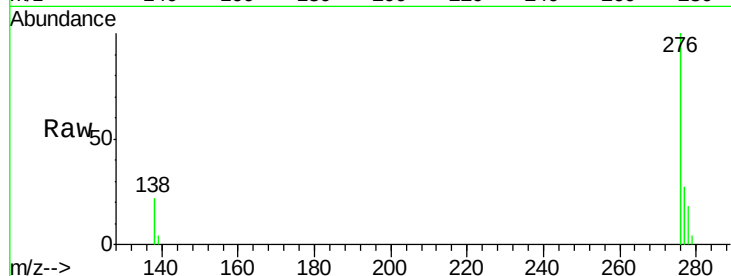
#35  
Dibenzo(a,h)anthracene  
Concen: 2.07 ng  
RT: 26.48 min Scan# 1709  
Delta R.T. -0.03 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

Instrument :  
BNA\_E  
ClientSampleId :  
SS050SS218(0-6)-170216

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.9  | 13.8  | 20.8# |
| 279     | 24.9  | 21.4  | 32.2  |

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#36  
Benzo(g,h,i)perylene  
Concen: 5.31 ng  
RT: 27.23 min Scan# 1753  
Delta R.T. -0.02 min  
Lab File: BE092751.D  
Acq: 20 Feb 2017 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.5  | 19.8  | 29.8  |
| 138     | 23.7  | 19.8  | 29.6  |

