

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE102014\  
 Data File : BE088118.D  
 Acq On : 20 Oct 2014 21:15  
 Operator : TP/JJ  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC0.8

Manual Integrations  
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Quant Time: Oct 21 02:02:31 2014  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-PAH-BE102014.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 21 01:52:35 2014  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.14  | 152  | 45411    | 5.00 | ng    | 0.00     |
| 3) Naphthalene-d8         | 8.70  | 136  | 172879   | 5.00 | ng    | 0.00     |
| 7) Acenaphthene-d10       | 10.85 | 164  | 77716    | 5.00 | ng    | 0.00     |
| 12) Phenanthrene-d10      | 12.96 | 188  | 143001   | 5.00 | ng    | 0.00     |
| 16) Chrysene-d12          | 18.39 | 240  | 109522   | 5.00 | ng    | 0.00     |
| 22) Perylene-d12          | 21.45 | 264  | 101919   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) Nitrobenzene-d5          | 7.82  | 82   | 8985     | 0.86 | ng    | 0.00     |
| 8) 2-Fluorobiphenyl         | 10.04 | 172  | 15889    | 0.74 | ng    | 0.00     |
| 18) Terphenyl-d14           | 16.15 | 244  | 12639    | 0.74 | ng    | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|------|-------|--------|
| 2) 1,4-Dioxane             | 2.40  | 88   | 4761     | 0.73 | ng    | 98     |
| 5) Naphthalene             | 8.72  | 128  | 26130    | 0.75 | ng    | 100    |
| 6) 2-Methylnaphthalene     | 9.58  | 142  | 15847    | 0.77 | ng    | 99     |
| 9) Acenaphthylene          | 10.67 | 152  | 88834    | 0.81 | ng    | 100    |
| 10) Acenaphthene           | 10.88 | 154  | 13506    | 0.75 | ng    | 97     |
| 11) Fluorene               | 11.55 | 166  | 14481    | 0.79 | ng    | 100    |
| 13) Phenanthrene           | 13.01 | 178  | 103289   | 0.77 | ng    | 99     |
| 14) Anthracene             | 13.09 | 178  | 81712    | 0.70 | ng    | 100    |
| 15) Fluoranthene           | 15.25 | 202  | 19611    | 0.70 | ng    | 100    |
| 17) Pyrene                 | 15.70 | 202  | 20879    | 0.74 | ng    | 100    |
| 19) Benzo(a)anthracene     | 18.36 | 228  | 67217    | 0.80 | ng    | 99     |
| 20) Chrysene               | 18.44 | 228  | 67949    | 0.66 | ng    | 100    |
| 21) Indeno(1,2,3-cd)pyrene | 23.63 | 276  | 74106m   | 0.89 | ng    |        |
| 23) Benzo(b)fluoranthene   | 20.68 | 252  | 17298    | 0.91 | ng    | 100    |
| 24) Benzo(k)fluoranthene   | 20.74 | 252  | 18711    | 0.70 | ng    | 99     |
| 25) Benzo(a)pyrene         | 21.32 | 252  | 16061    | 0.98 | ng    | 100    |
| 26) Dibenzo(a,h)anthracene | 23.73 | 278  | 15581    | 0.89 | ng    | 100    |
| 27) Benzo(g,h,i)perylene   | 24.26 | 276  | 68276    | 0.81 | ng    | 99     |

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

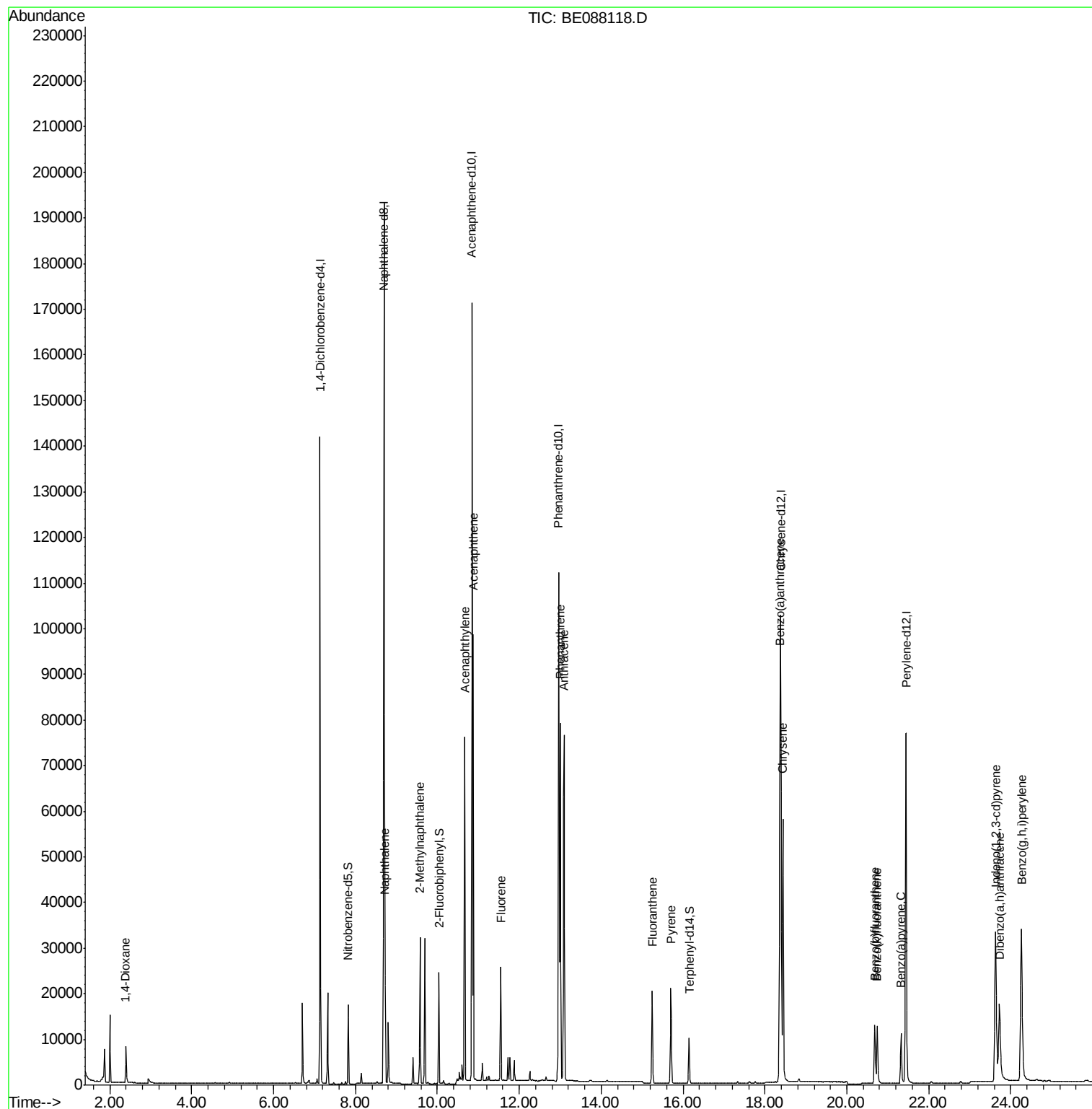
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE102014\  
Data File : BE088118.D  
Acq On : 20 Oct 2014 21:15  
Operator : TP/JJ  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC0.8

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Quant Time: Oct 21 02:02:31 2014  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-PAH-BE102014.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 21 01:52:35 2014  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088118.D

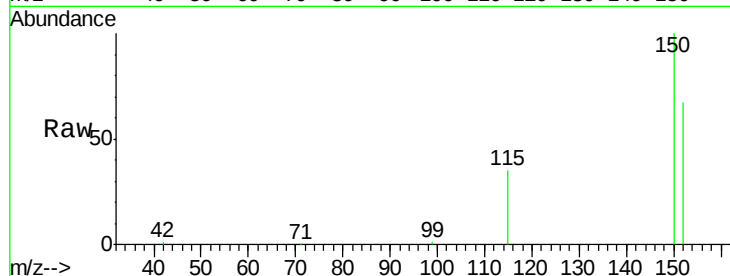
Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

ClientSampleId :

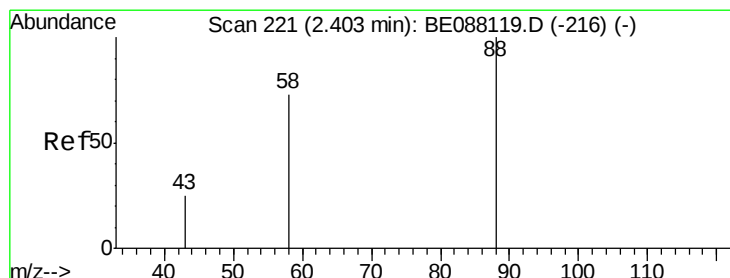
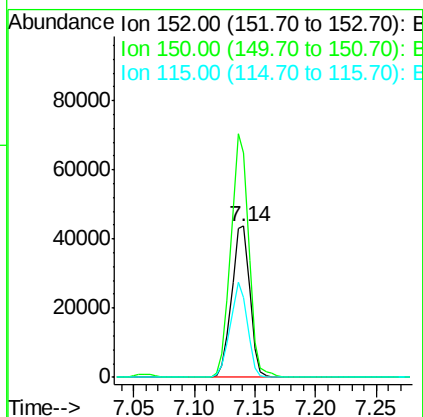
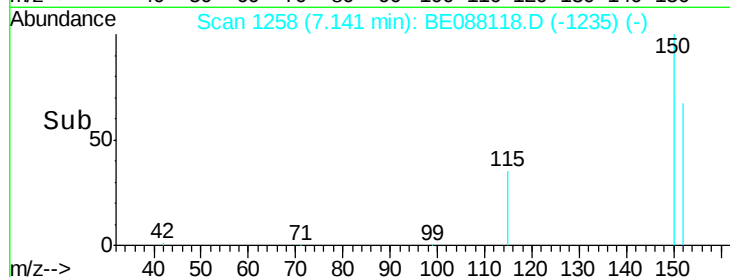
SSTDIC0.8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 45411 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 148.5 | 129.2 | 193.8 |
| 115       | 52.6  | 49.3  | 73.9  |

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#2

1,4-Dioxane

Concen: 0.73 ng

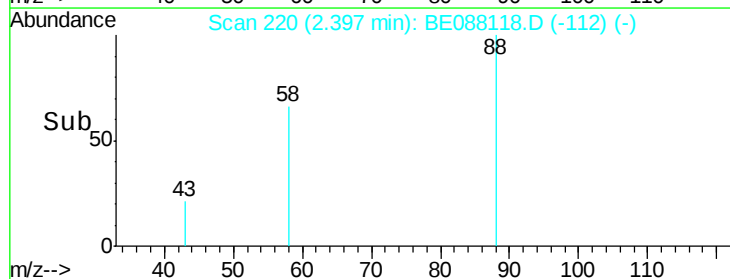
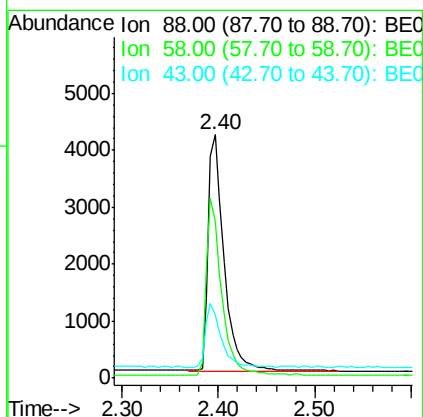
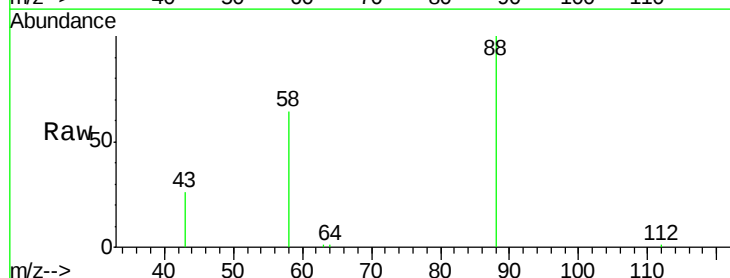
RT: 2.40 min Scan# 220

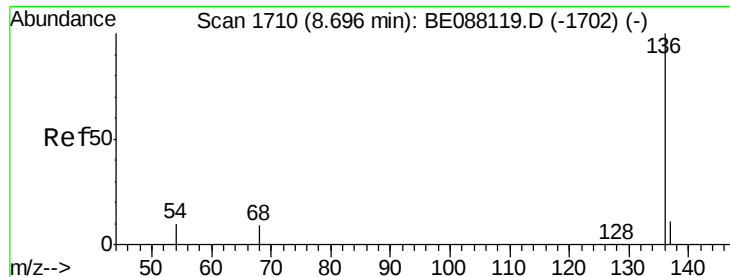
Delta R.T. -0.01 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 88    | Resp: | 4761 |
| Ion Ratio | Lower | Upper |      |
| 88        | 100   |       |      |
| 58        | 72.4  | 59.5  | 89.3 |
| 43        | 26.5  | 21.2  | 31.8 |





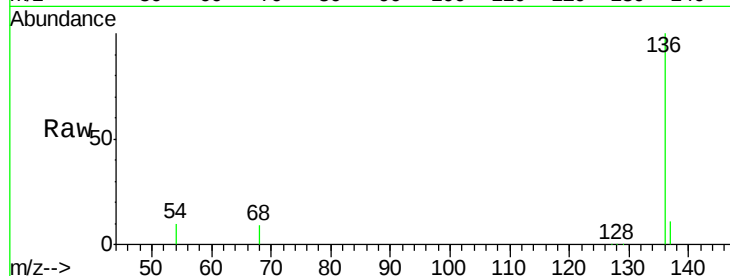
#3  
Naphthalene-d8  
Concen: 5.00 ng  
RT: 8.70 min Scan# 1710  
Delta R.T. -0.00 min  
Lab File: BE088118.D  
Acq: 20 Oct 2014 21:15

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDIC0.8

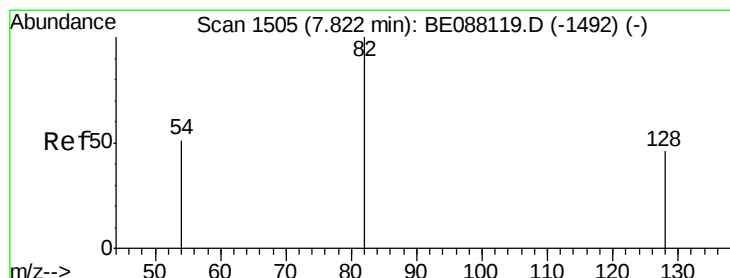
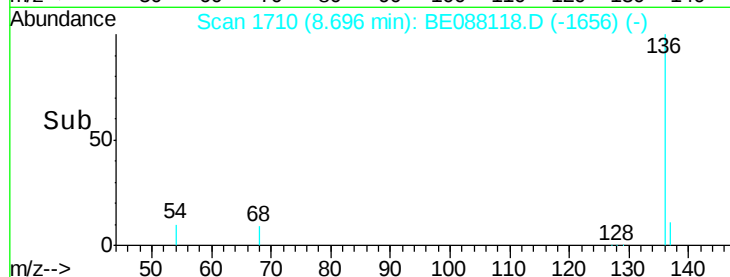
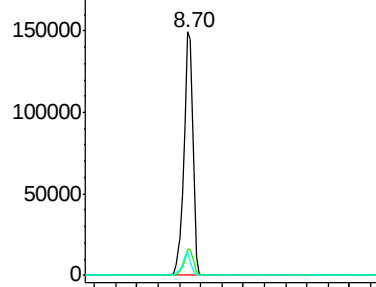
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 172879 |       |       |
| 137     | 10.7  | 8.6    | 12.8  |       |
| 54      | 9.6   | 7.7    | 11.5  |       |

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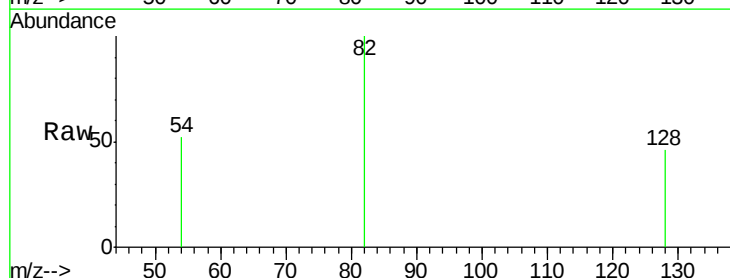


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BE0

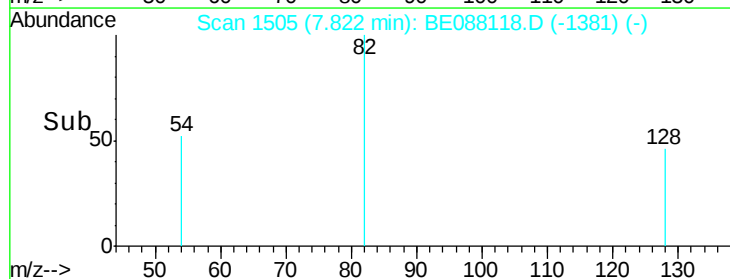
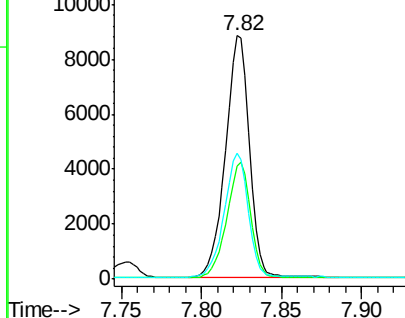


#4  
Nitrobenzene-d5  
Concen: 0.86 ng  
RT: 7.82 min Scan# 1505  
Delta R.T. -0.00 min  
Lab File: BE088118.D  
Acq: 20 Oct 2014 21:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   | 8985 |       |       |
| 128     | 46.4  | 37.1 | 55.7  |       |
| 54      | 51.9  | 41.1 | 61.7  |       |



Abundance Ion 82.00 (81.70 to 82.70): BE0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.75 ng

RT: 8.72 min Scan# 1715

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

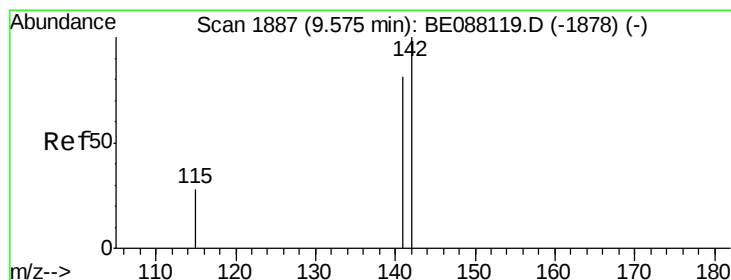
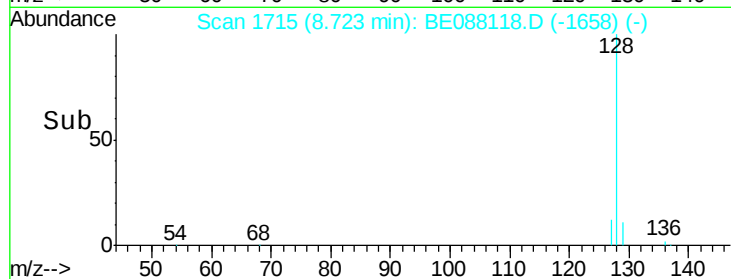
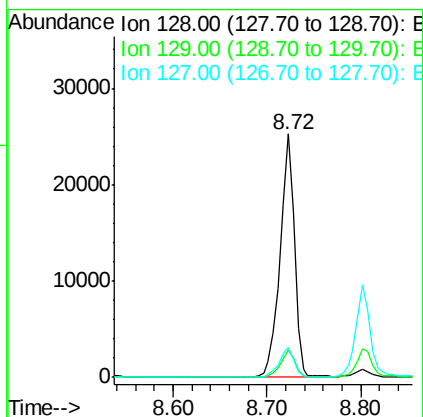
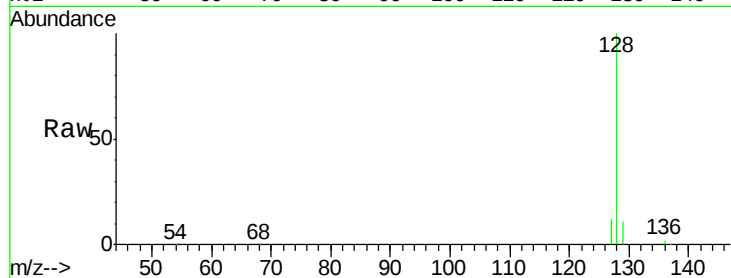
ClientSampleId :

SSTDIC0.8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 26130 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.2  | 8.9   | 13.3  |
| 127       | 12.1  | 9.7   | 14.5  |

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#6

2-Methylnaphthalene

Concen: 0.77 ng

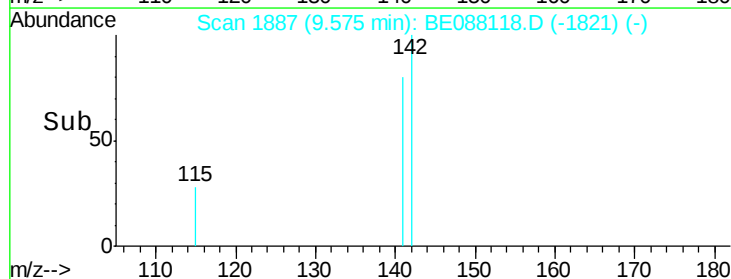
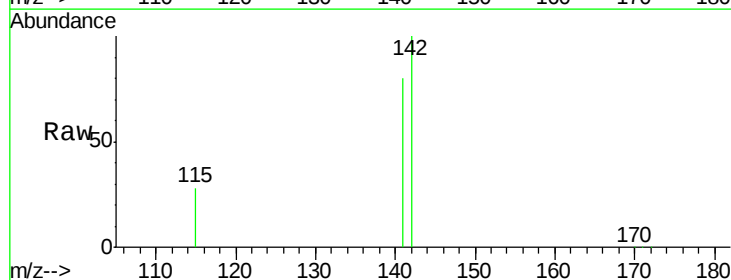
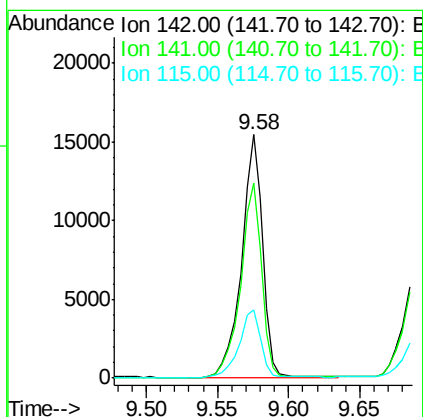
RT: 9.58 min Scan# 1887

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 15847 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 80.0  | 64.6  | 97.0  |
| 115       | 28.1  | 22.6  | 34.0  |





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088118.D

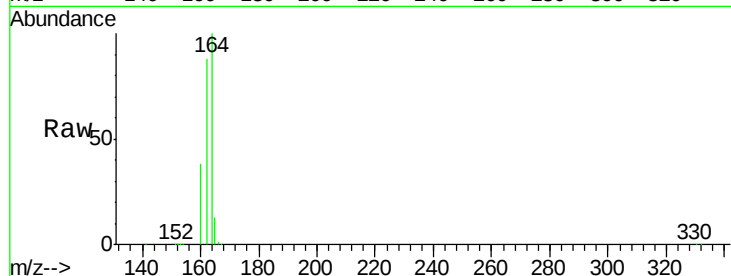
Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

ClientSampleId :

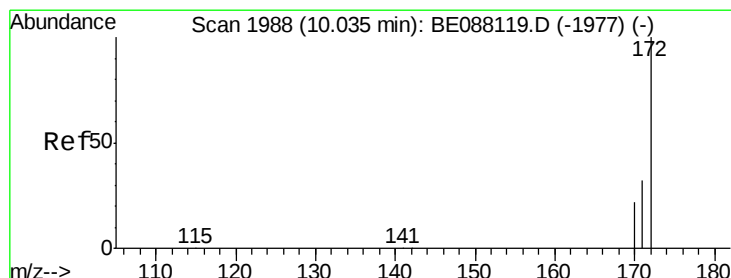
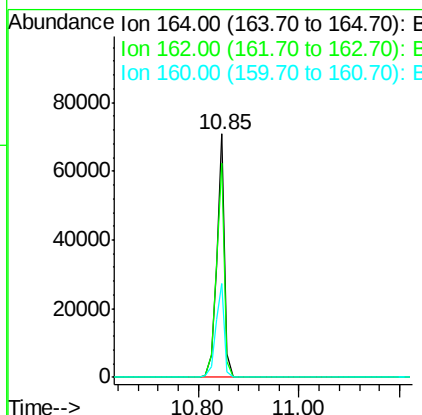
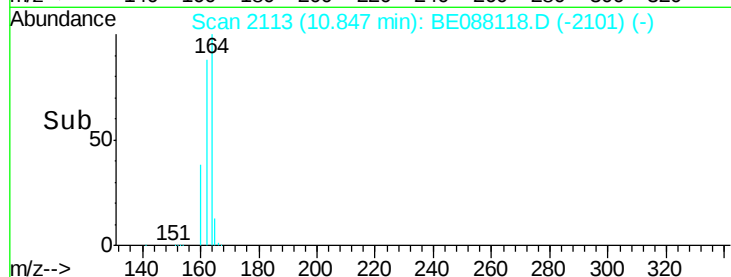
SSTDICC0.8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 77716 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 88.0  | 68.3  | 102.5 |
| 160       | 38.3  | 28.7  | 43.1  |

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#8

2-Fluorobiphenyl

Concen: 0.74 ng

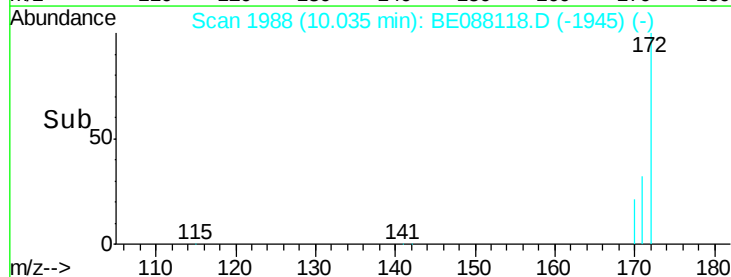
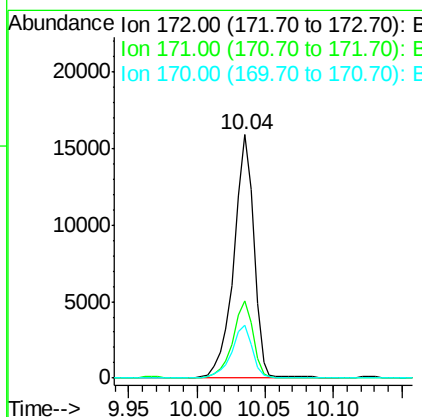
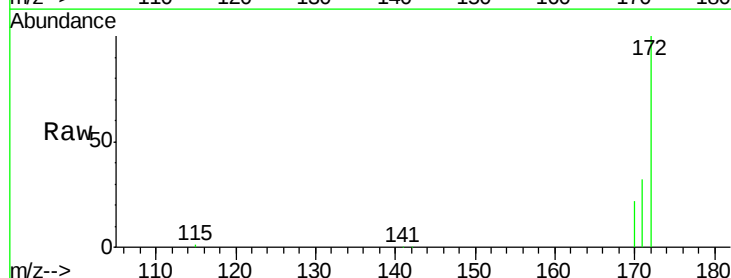
RT: 10.04 min Scan# 1988

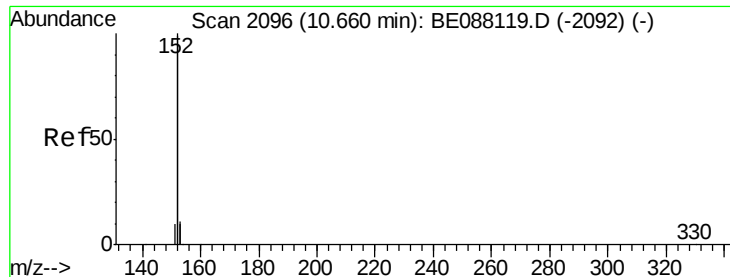
Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 15889 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 31.7  | 25.4  | 38.2  |
| 170       | 21.6  | 17.4  | 26.2  |





#9

Acenaphthylene

Concen: 0.81 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

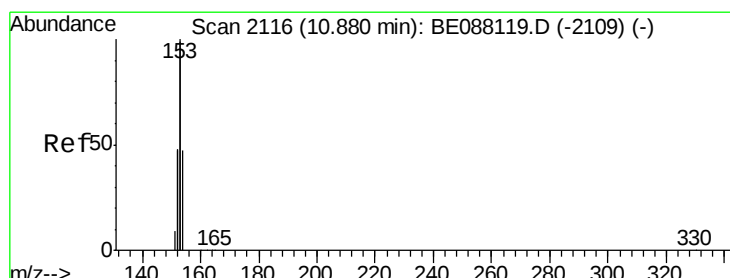
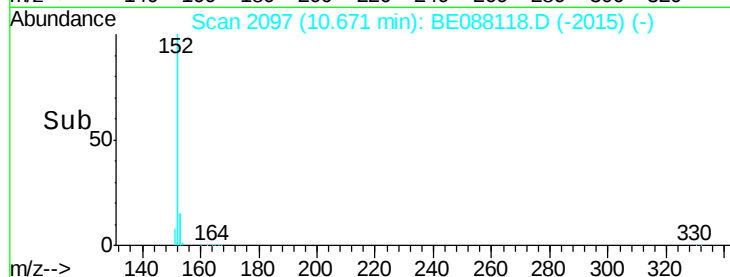
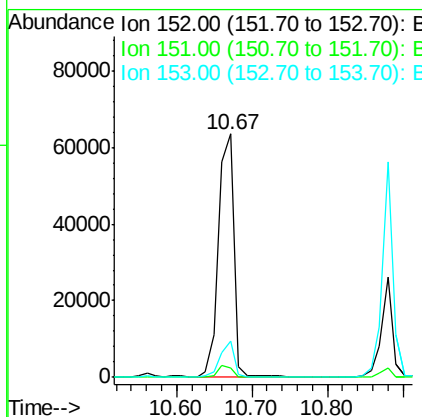
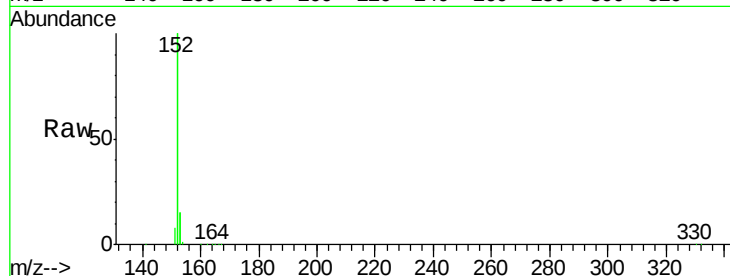
ClientSampleId :

SSTDICC0.8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 88834 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 4.6   | 3.7   | 5.5   |
| 153       | 13.0  | 10.4  | 15.6  |

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#10

Acenaphthene

Concen: 0.75 ng

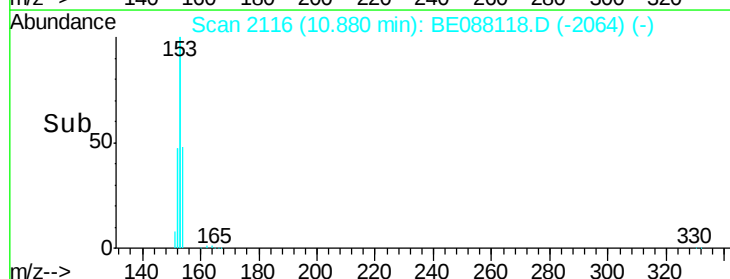
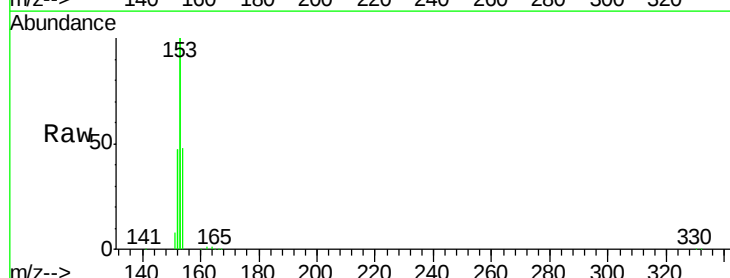
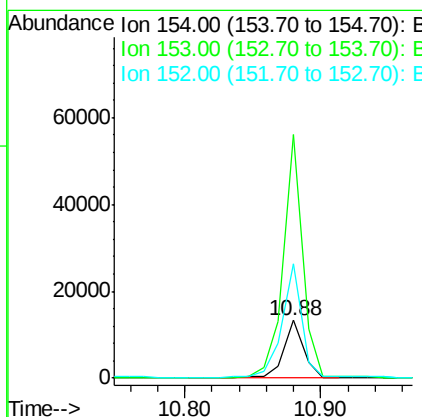
RT: 10.88 min Scan# 2116

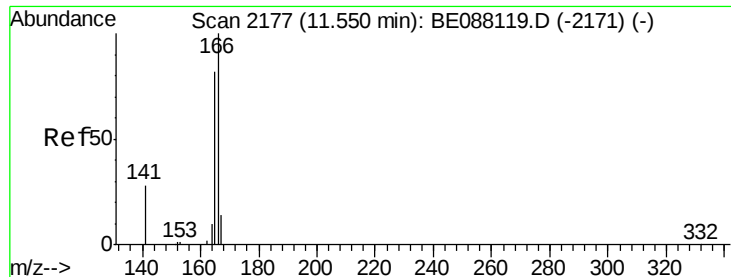
Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 13506 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 404.2 | 327.8 | 491.6 |
| 152       | 190.7 | 157.6 | 236.4 |





#11

Fluorene

Concen: 0.79 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088118.D

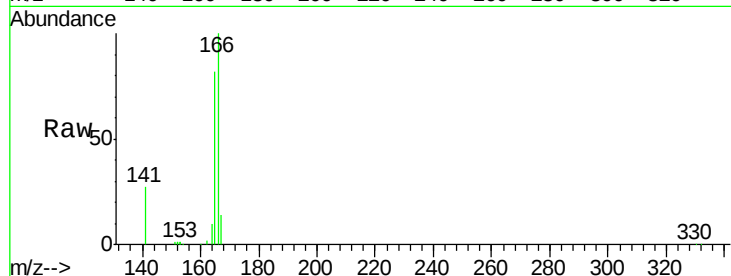
Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

ClientSampleId :

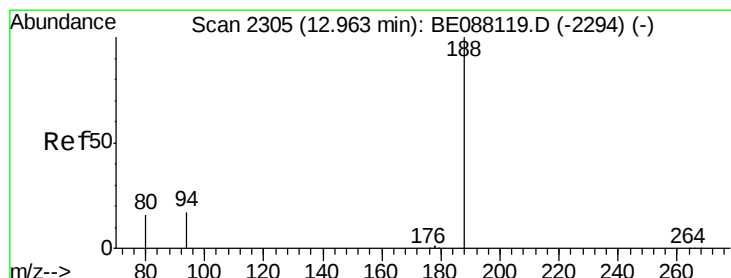
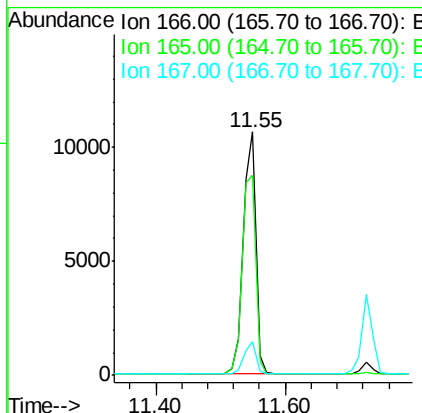
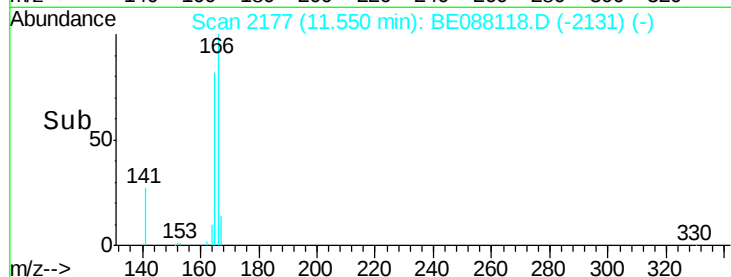
SSTDICC0.8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 14481 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 89.4  | 71.4  | 107.2 |
| 167       | 13.2  | 10.6  | 16.0  |

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#12

Phenanthrene-d10

Concen: 5.00 ng

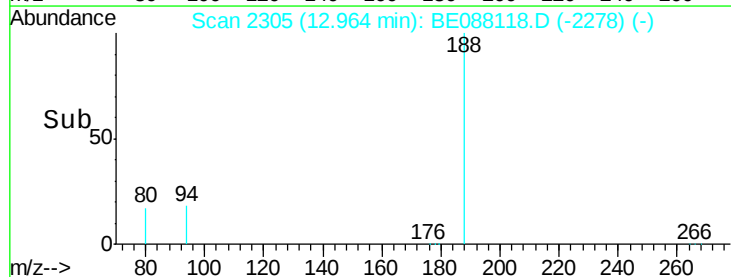
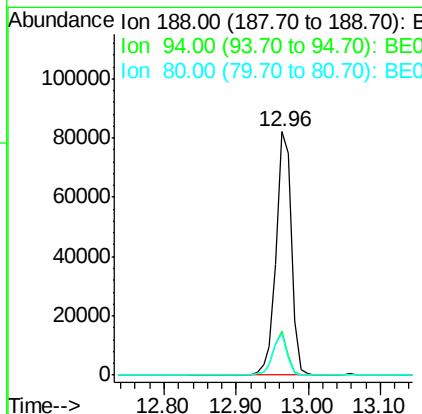
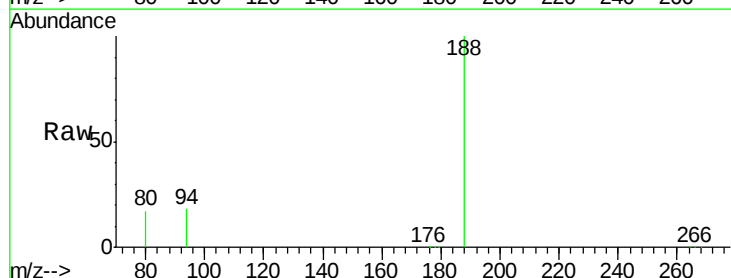
RT: 12.96 min Scan# 2305

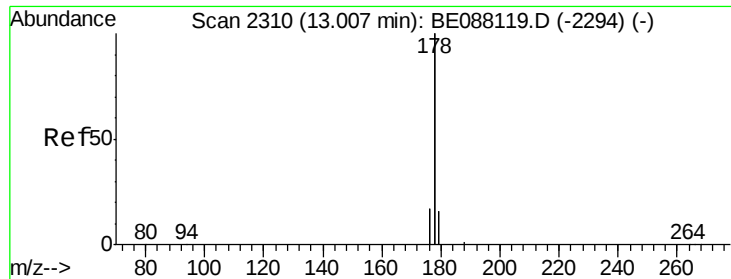
Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 143001 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 17.9  | 13.9  | 20.9   |
| 80        | 16.9  | 12.9  | 19.3   |





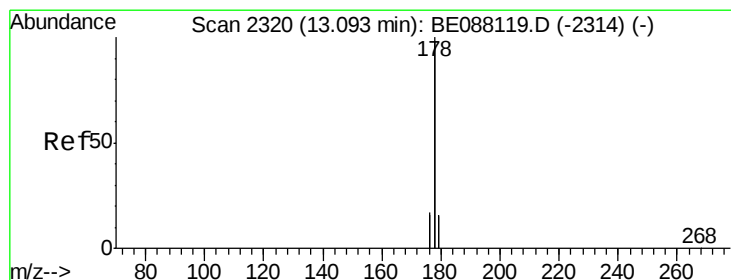
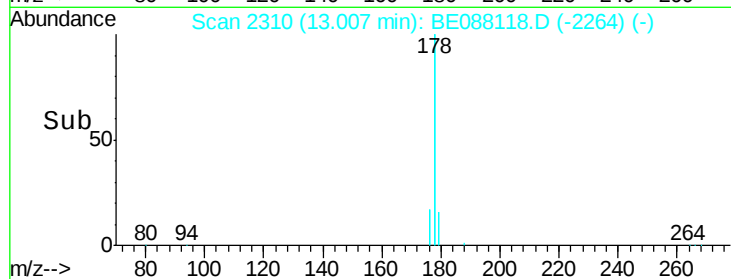
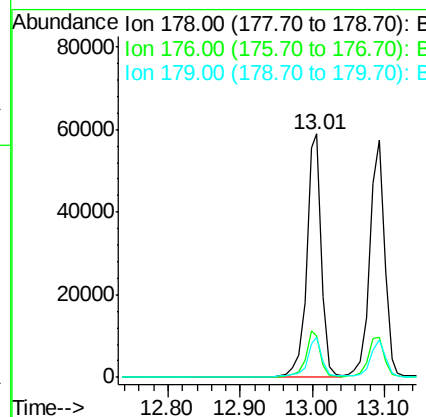
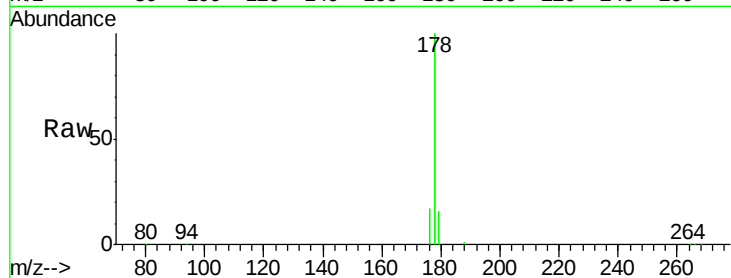
#13  
Phenanthrene  
Concen: 0.77 ng  
RT: 13.01 min Scan# 2310  
Delta R.T. 0.00 min  
Lab File: BE088118.D  
Acq: 20 Oct 2014 21:15

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDIC0.8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 15.7  | 12.5  | 18.7  |
| 179     | 17.5  | 13.5  | 20.3  |

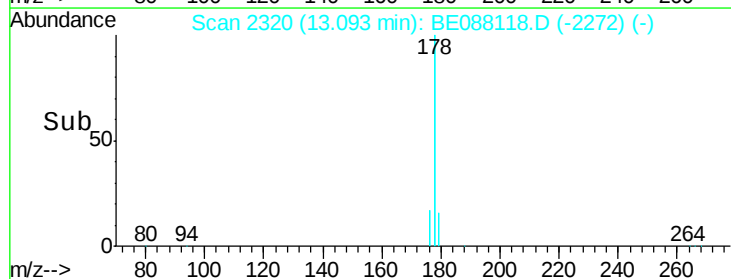
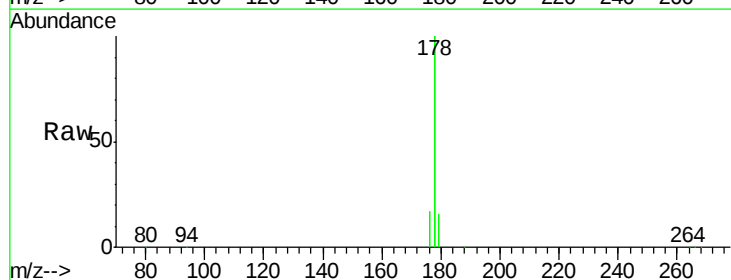
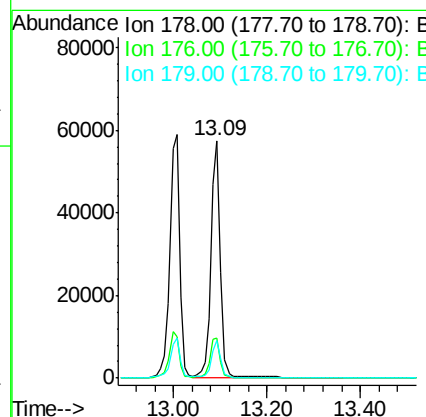
Manual Integrations  
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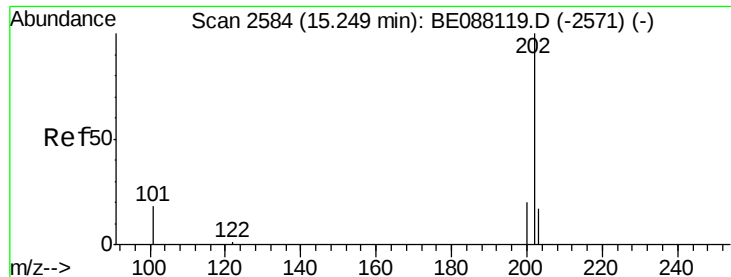
mohammad  
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#14  
Anthracene  
Concen: 0.70 ng  
RT: 13.09 min Scan# 2320  
Delta R.T. 0.00 min  
Lab File: BE088118.D  
Acq: 20 Oct 2014 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.3  | 14.6  | 21.8  |
| 179     | 15.6  | 12.5  | 18.7  |





#15

Fluoranthene

Concen: 0.70 ng

RT: 15.25 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

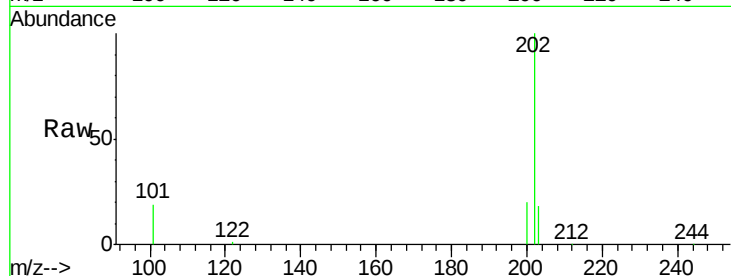
ClientSampleId :

SSTDICC0.8

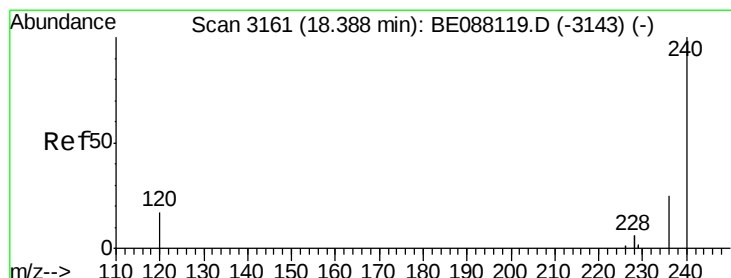
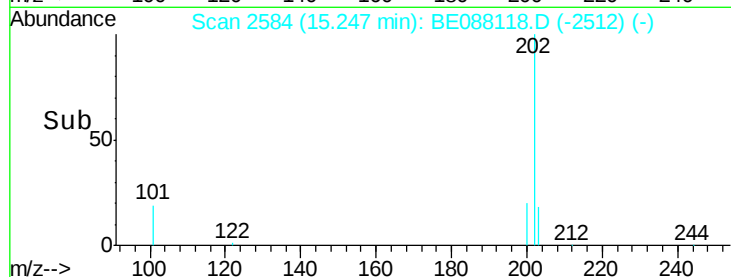
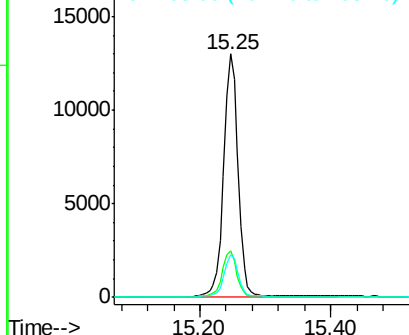
|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 202   | Resp: | 19611 |
| Ion | Ratio | Lower | Upper |       |
| 202 | 100   |       |       |       |
| 101 | 18.6  | 14.8  | 22.2  |       |
| 203 | 17.2  | 13.5  | 20.3  |       |

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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



#16

Chrysene-d12

Concen: 5.00 ng

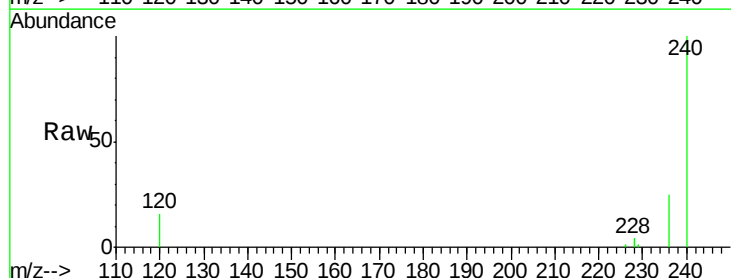
RT: 18.39 min Scan# 3161

Delta R.T. 0.00 min

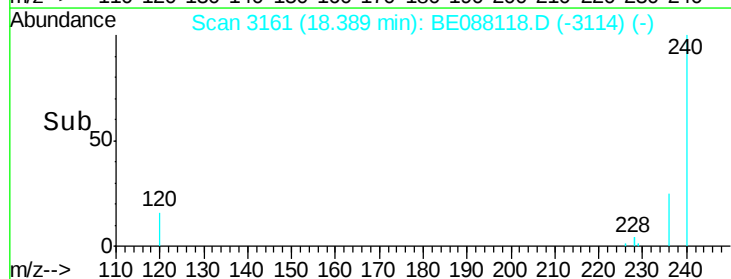
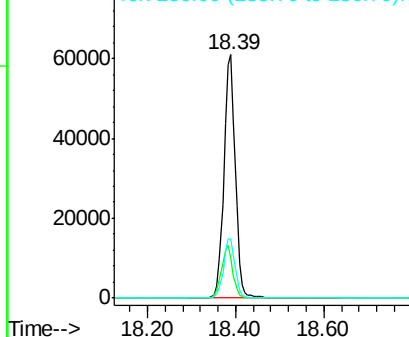
Lab File: BE088118.D

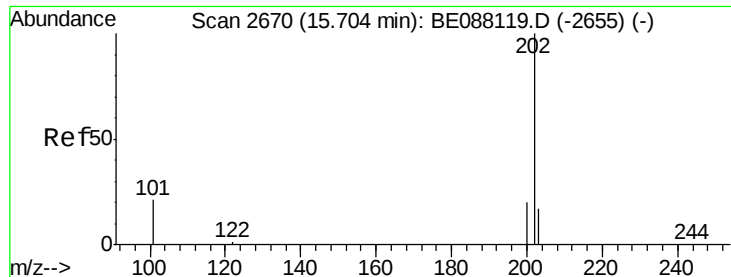
Acq: 20 Oct 2014 21:15

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 240   | Resp: | 109522 |
| Ion | Ratio | Lower | Upper |        |
| 240 | 100   |       |       |        |
| 120 | 16.3  | 13.9  | 20.9  |        |
| 236 | 24.6  | 19.9  | 29.9  |        |



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





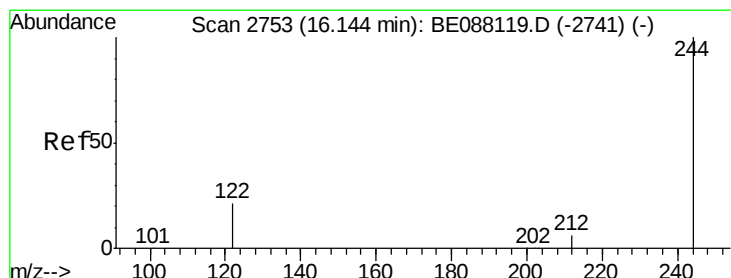
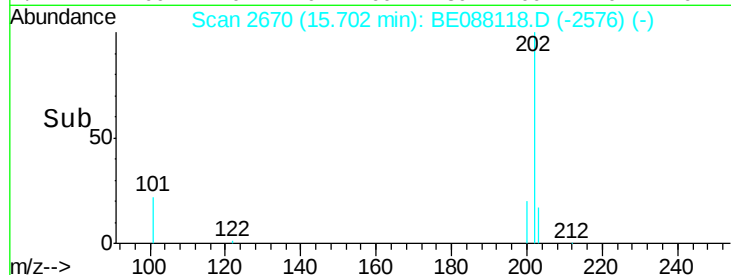
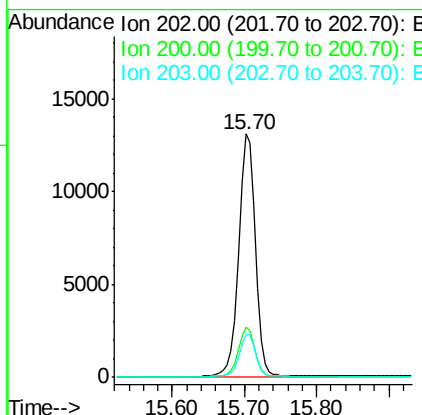
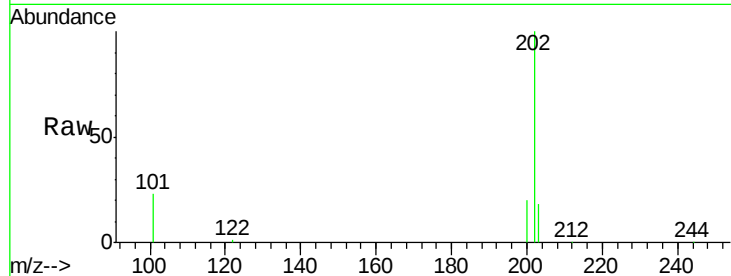
#17  
Pyrene  
Concen: 0.74 ng  
RT: 15.70 min Scan# 2670  
Delta R.T. -0.00 min  
Lab File: BE088118.D  
Acq: 20 Oct 2014 21:15

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDIC0.8

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.1  | 16.1       | 24.1       |
| 203     | 17.3  | 13.9       | 20.9       |

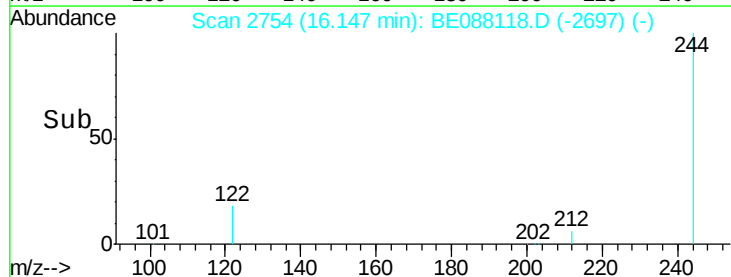
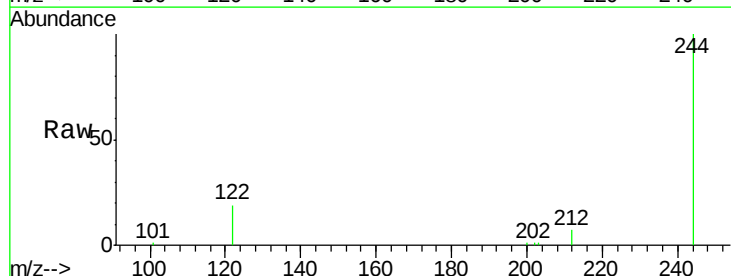
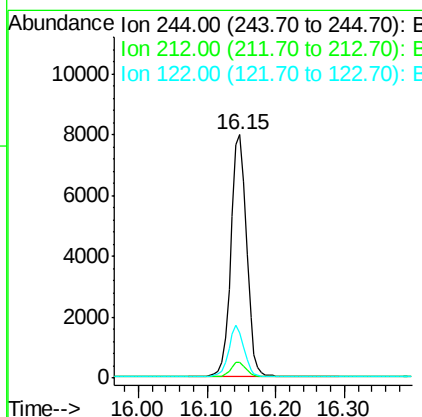
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#18  
Terphenyl-d14  
Concen: 0.74 ng  
RT: 16.15 min Scan# 2754  
Delta R.T. 0.00 min  
Lab File: BE088118.D  
Acq: 20 Oct 2014 21:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 6.6   | 5.4        | 8.0        |
| 122     | 18.8  | 17.5       | 26.3       |





#19

Benzo(a)anthracene

Concen: 0.80 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

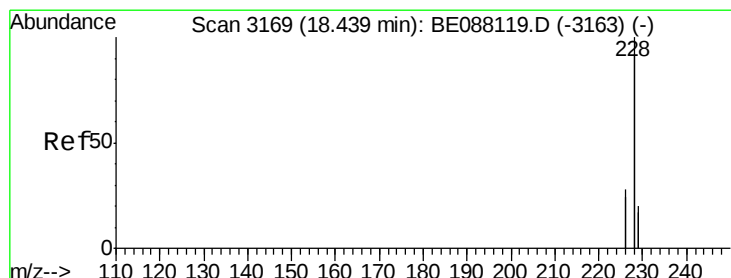
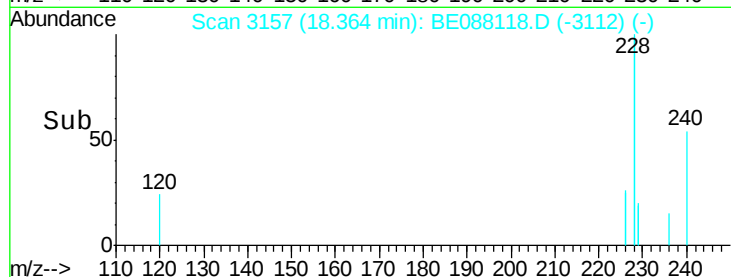
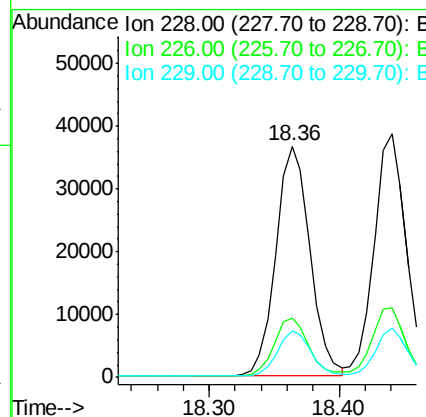
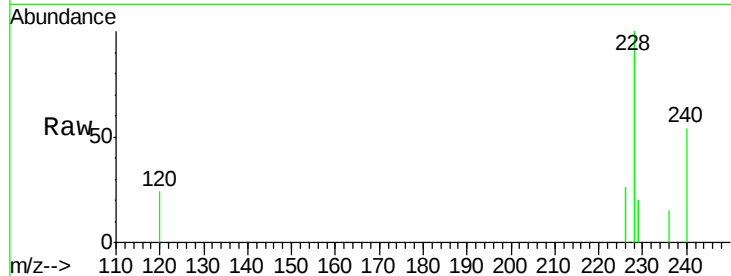
ClientSampleId :

SSTDICC0.8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 67217 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 25.8  | 20.8  | 31.2  |
| 229       | 20.0  | 15.6  | 23.4  |

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#20

Chrysene

Concen: 0.66 ng

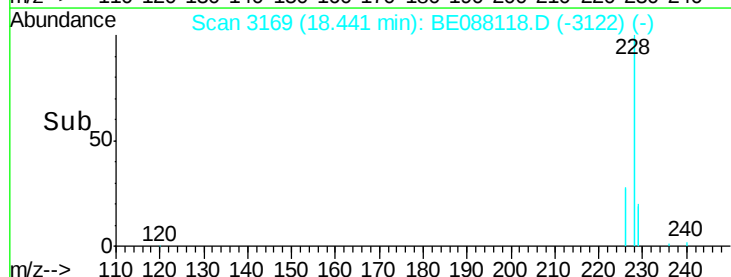
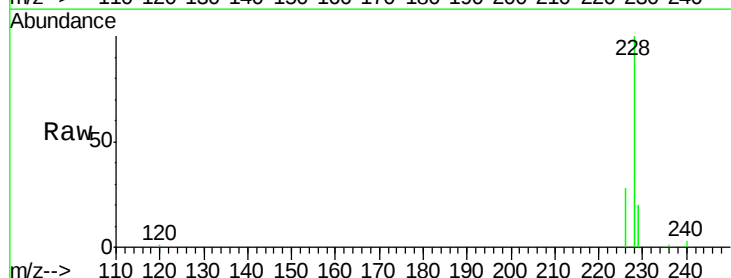
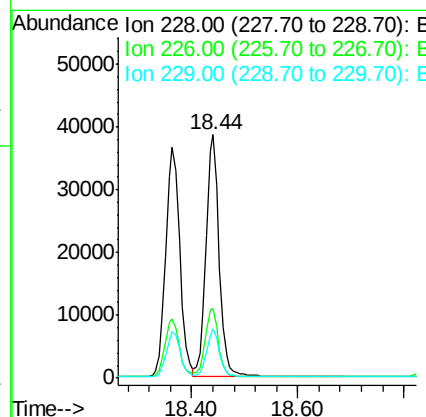
RT: 18.44 min Scan# 3169

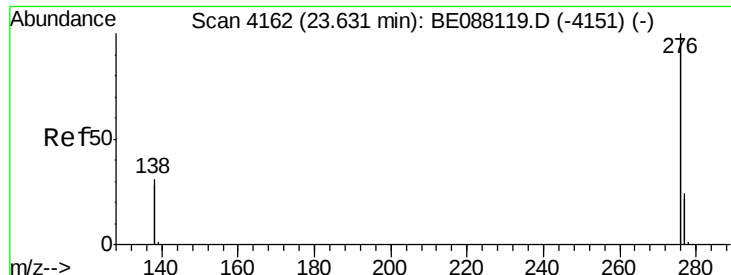
Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

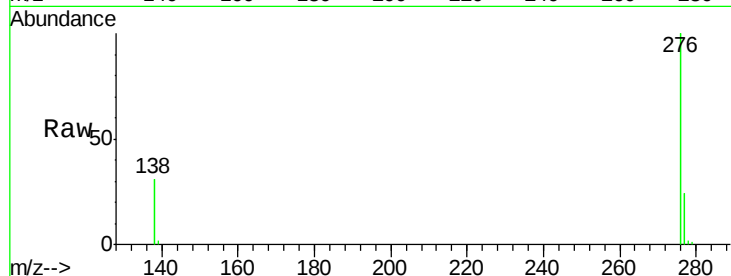
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 67949 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.4  | 22.7  | 34.1  |
| 229       | 20.1  | 15.8  | 23.6  |





#21  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.89 ng m  
 RT: 23.63 min Scan# 4162  
 Delta R.T. 0.00 min  
 Lab File: BE088118.D  
 Acq: 20 Oct 2014 21:15

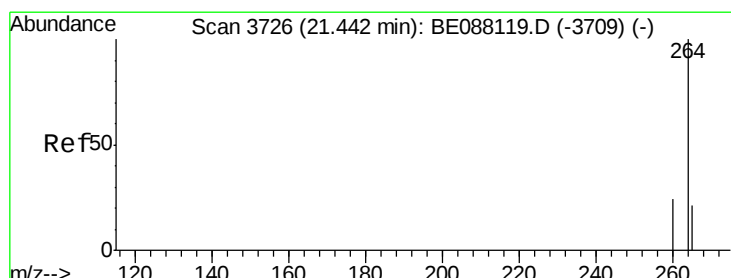
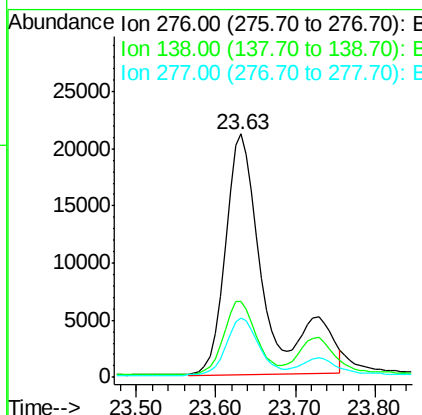
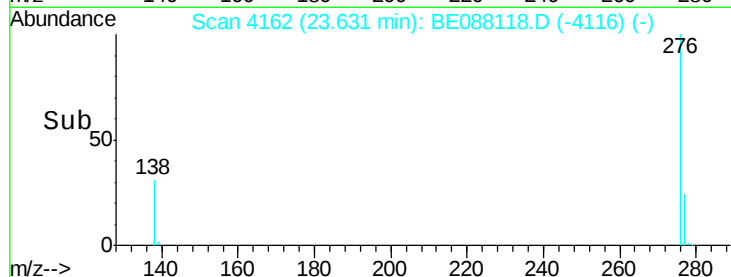
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC0.8



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.1  | 18.5  | 27.7  |
| 277     | 19.5  | 14.6  | 21.8  |

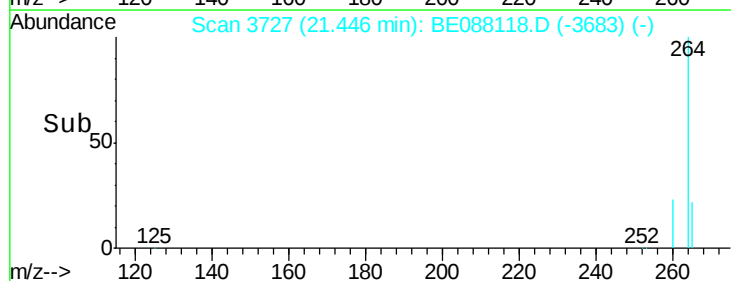
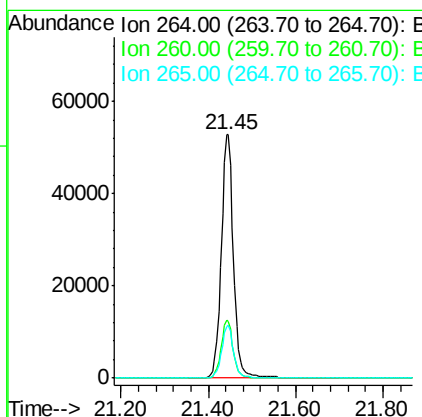
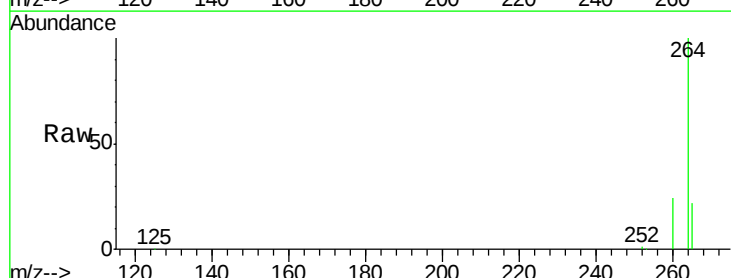
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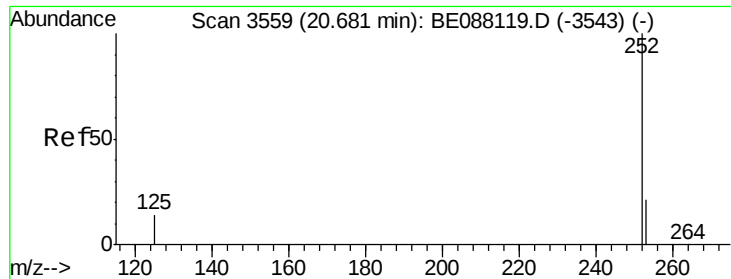
mohammad  
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#22  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 21.45 min Scan# 3727  
 Delta R.T. 0.00 min  
 Lab File: BE088118.D  
 Acq: 20 Oct 2014 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.0  | 28.4  |
| 265     | 21.7  | 17.2  | 25.8  |





#23

Benzo(b)fluoranthene

Concen: 0.91 ng

RT: 20.68 min Scan# 3559

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

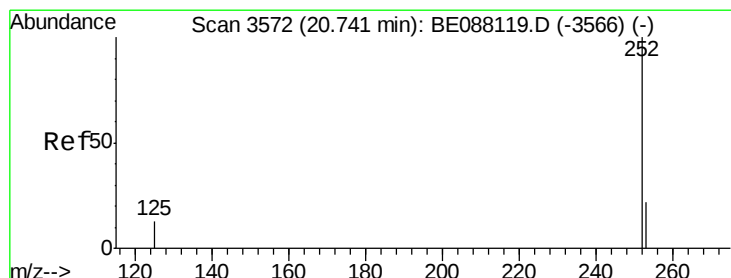
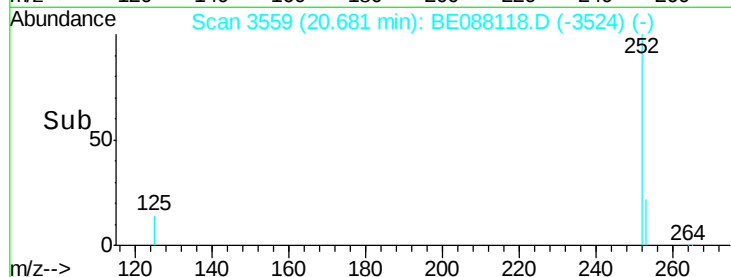
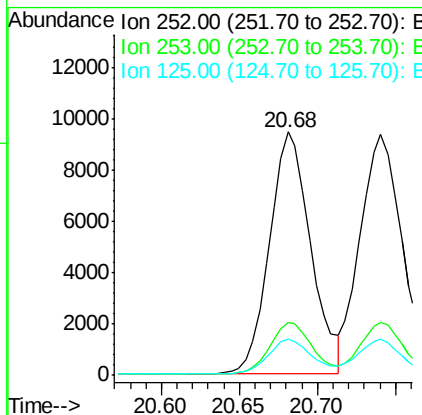
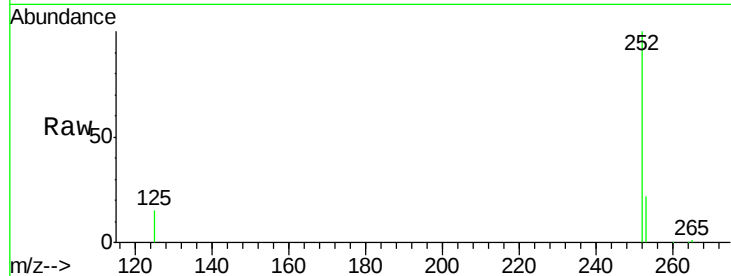
ClientSampleId :

SSTDICC0.8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 17298 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.0  | 17.4  | 26.0  |
| 125       | 14.9  | 11.8  | 17.8  |

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#24

Benzo(k)fluoranthene

Concen: 0.70 ng

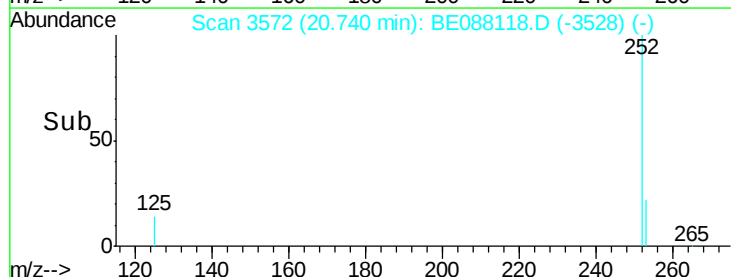
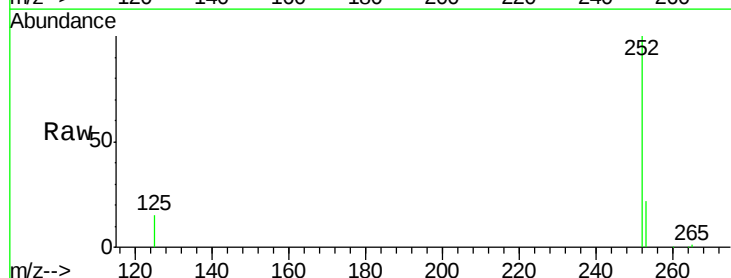
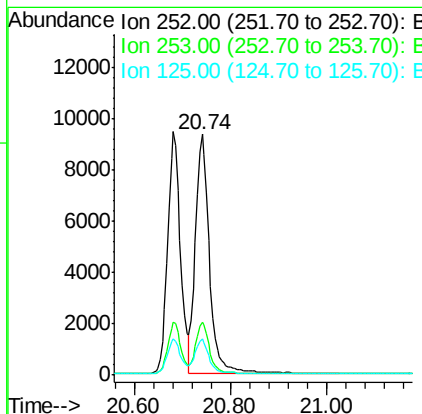
RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 18711 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.1  | 17.6  | 26.4  |
| 125       | 14.8  | 11.5  | 17.3  |





#25

Benzo(a)pyrene

Concen: 0.98 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

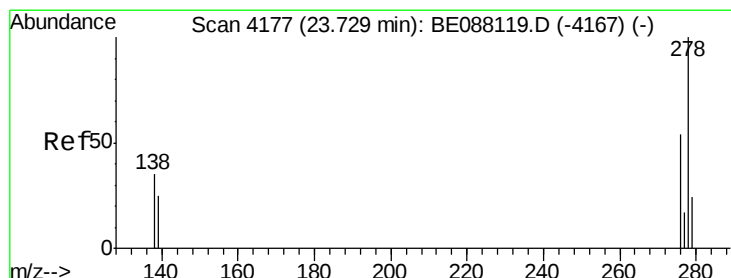
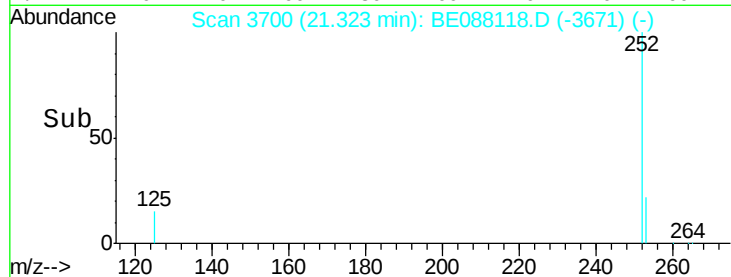
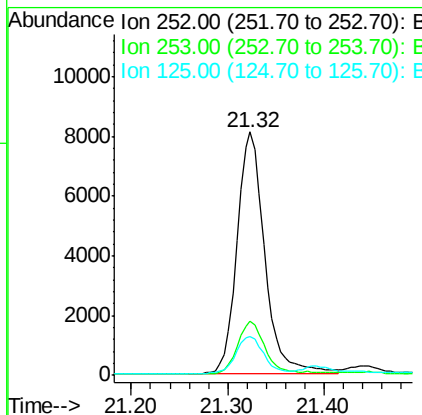
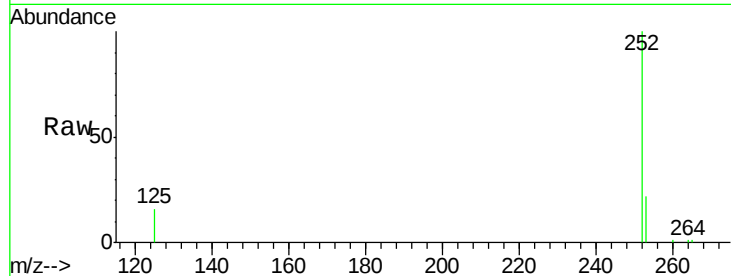
ClientSampleId :

SSTDIC0.8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 16061 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.1  | 17.5  | 26.3  |
| 125       | 16.2  | 13.0  | 19.6  |

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#26

Dibenzo(a,h)anthracene

Concen: 0.89 ng

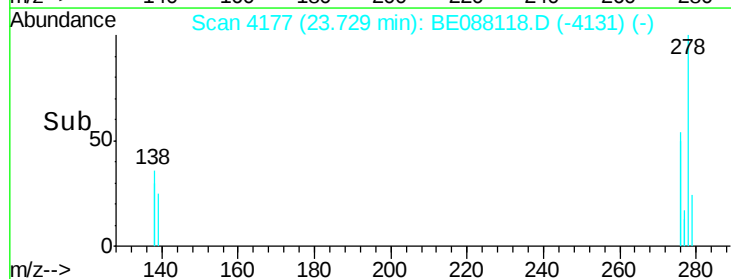
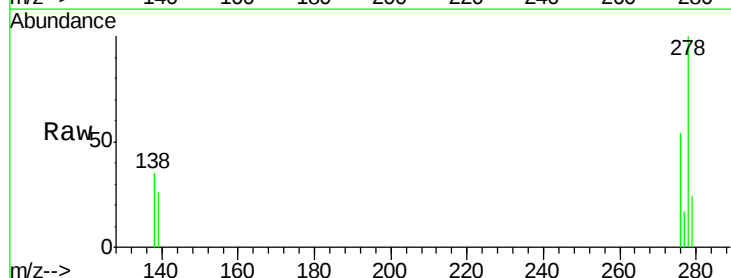
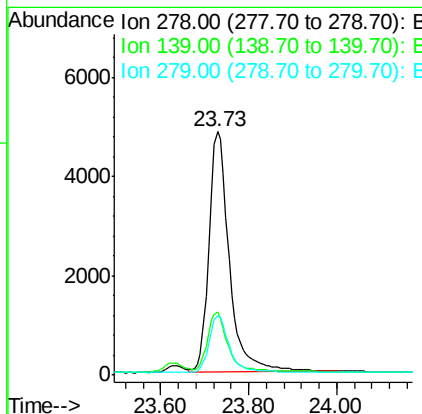
RT: 23.73 min Scan# 4177

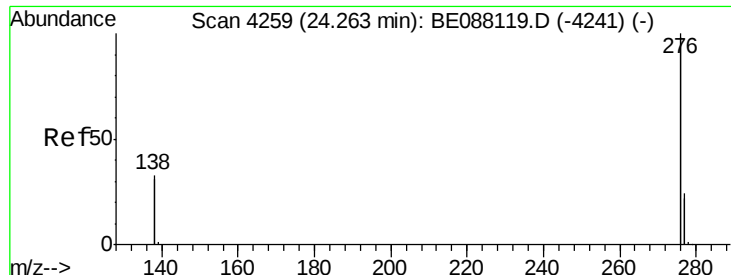
Delta R.T. 0.00 min

Lab File: BE088118.D

Acq: 20 Oct 2014 21:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 15581 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 26.1  | 20.9  | 31.3  |
| 279       | 24.4  | 19.8  | 29.8  |





#27

Benzo(g,h,i)perylene

Concen: 0.81 ng

RT: 24.26 min Scan# 4259

Delta R.T. 0.00 min

Lab File: BE088118.D

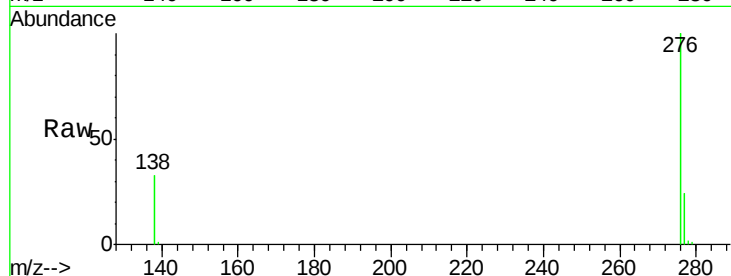
Acq: 20 Oct 2014 21:15

Instrument :

BNA\_E

ClientSampleId :

SSTDIC0.8



Tgt Ion: 276 Resp: 68276

Ion Ratio Lower Upper

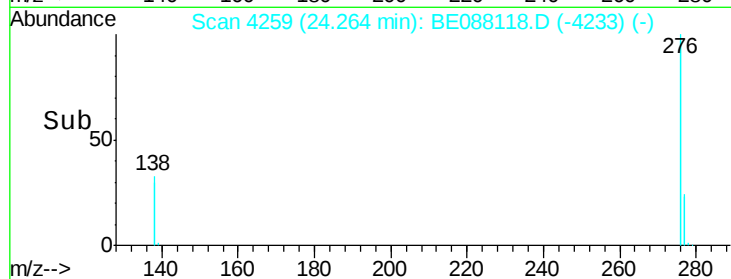
276 100

277 24.5 19.2 28.8

138 32.8 26.6 40.0

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

