

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE020615\  
 Data File : BE089531.D  
 Acq On : 6 Feb 2015 17:09  
 Operator : TP/IZ  
 Sample : SSTDICC010  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDICC010

Quant Time: Feb 07 03:36:12 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE020615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Feb 07 03:25:41 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.42  | 152  | 33566    | 5.00 | ng    | 0.00     |
| 2) Naphthalene-d8         | 12.33 | 136  | 124541   | 5.00 | ng    | 0.00     |
| 6) Acenaphthene-d10       | 16.52 | 164  | 49860    | 5.00 | ng    | 0.01     |
| 11) Phenanthrene-d10      | 19.85 | 188  | 92033    | 5.00 | ng    | 0.00     |
| 16) Chrysene-d12          | 23.73 | 240  | 113117   | 5.00 | ng    | 0.00     |
| 22) Perylene-d12          | 25.42 | 264  | 122242   | 5.00 | ng    | 0.00     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 3) Nitrobenzene-d5          | 10.69 | 82  | 92222  | 10.45 | ng | 0.00 |
| 7) 2-Fluorobiphenyl         | 14.97 | 172 | 131095 | 8.37  | ng | 0.00 |
| 18) Terphenyl-d14           | 22.37 | 244 | 149300 | 7.40  | ng | 0.00 |

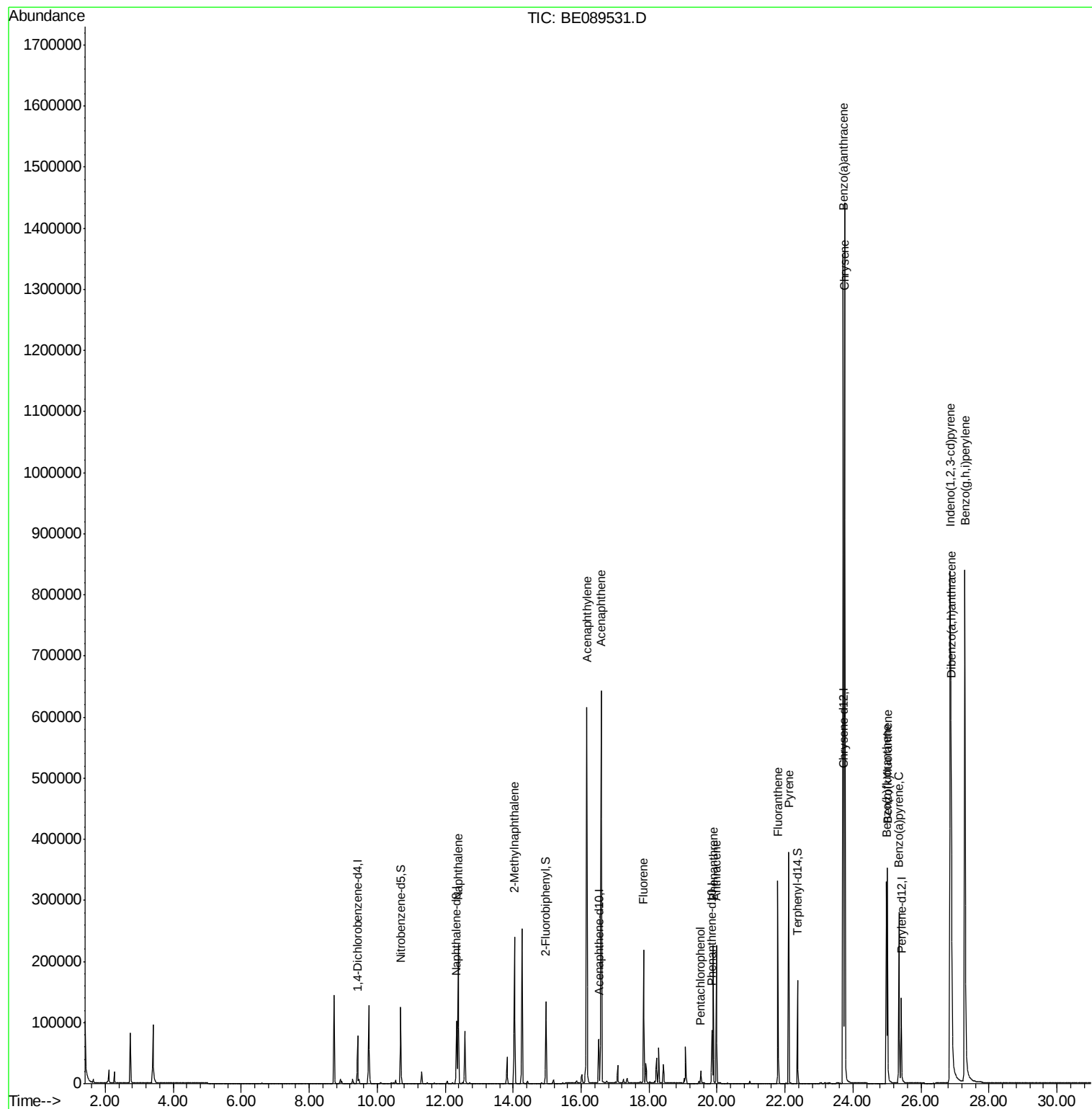
|                            |       |     |         |        |    |     |
|----------------------------|-------|-----|---------|--------|----|-----|
| Target Compounds           |       |     |         | Qvalue |    |     |
| 4) Naphthalene             | 12.38 | 128 | 273694  | 8.97   | ng | 99  |
| 5) 2-Methylnaphthalene     | 14.04 | 142 | 161740  | 8.33   | ng | 97  |
| 8) Acenaphthylene          | 16.17 | 152 | 918516  | 8.76   | ng | 99  |
| 9) Acenaphthene            | 16.59 | 154 | 132592  | 8.23   | ng | 99  |
| 10) Fluorene               | 17.84 | 166 | 147744  | 8.15   | ng | 98  |
| 12) Pentachlorophenol      | 19.52 | 266 | 11633   | 16.77  | ng | 88  |
| 13) Phenanthrene           | 19.89 | 178 | 223349  | 8.05   | ng | 99  |
| 14) Anthracene             | 19.99 | 178 | 217475  | 8.66   | ng | 100 |
| 15) Fluoranthene           | 21.79 | 202 | 234899  | 9.15   | ng | 99  |
| 17) Pyrene                 | 22.11 | 202 | 249581  | 7.27   | ng | 99  |
| 19) Benzo(a)anthracene     | 23.71 | 228 | 1015147 | 8.27   | ng | 95  |
| 20) Chrysene               | 23.75 | 228 | 996778  | 7.82   | ng | 95  |
| 21) Indeno(1,2,3-cd)pyrene | 26.86 | 276 | 1456290 | 10.28  | ng | 100 |
| 23) Benzo(b)fluoranthene   | 24.98 | 252 | 257145  | 9.50   | ng | 99  |
| 24) Benzo(k)fluoranthene   | 25.01 | 252 | 310609  | 7.99   | ng | 98  |
| 25) Benzo(a)pyrene         | 25.35 | 252 | 270359  | 9.53   | ng | 98  |
| 26) Dibenzo(a,h)anthracene | 26.89 | 278 | 314371  | 9.95   | ng | 96  |
| 27) Benzo(g,h,i)perylene   | 27.29 | 276 | 1208292 | 9.14   | ng | 99  |

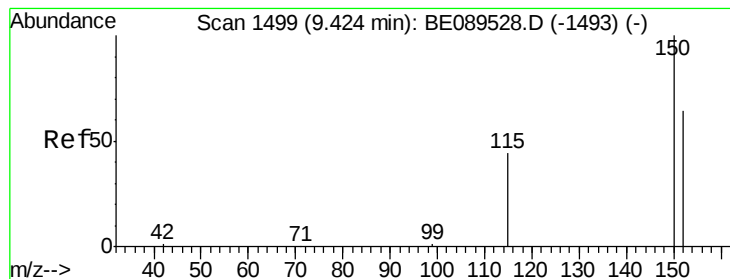
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE020615\  
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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
LabSampleId :  
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Quant Time: Feb 07 03:36:12 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE020615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Feb 07 03:25:41 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1499

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDICC010

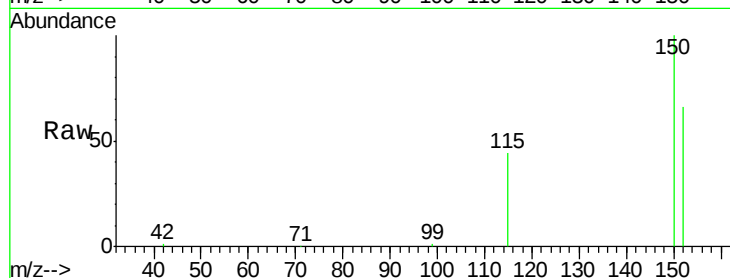
Tgt Ion:152 Resp: 33566

Ion Ratio Lower Upper

152 100

150 152.5 125.7 188.5

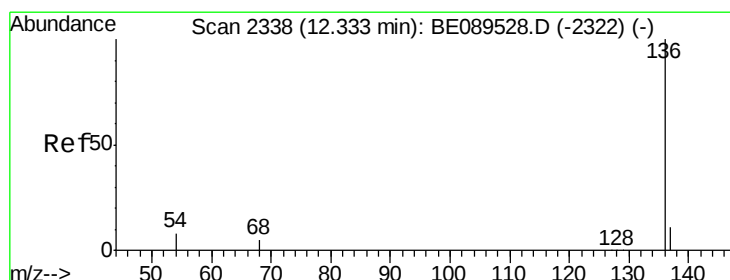
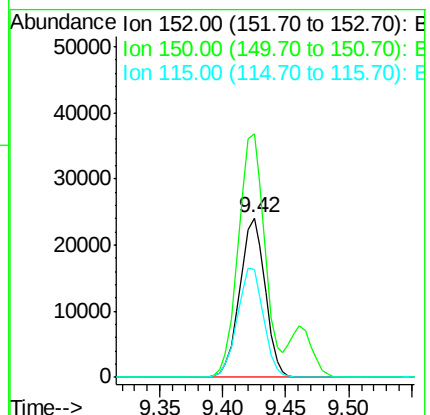
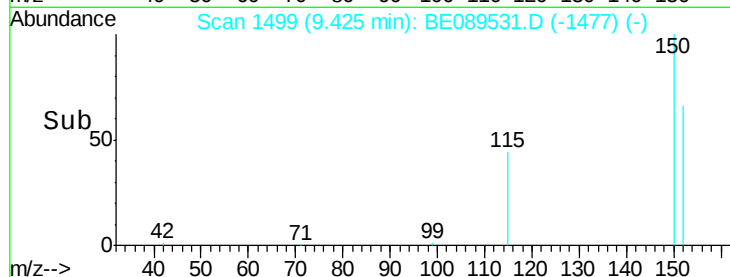
115 67.8 55.6 83.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2339

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

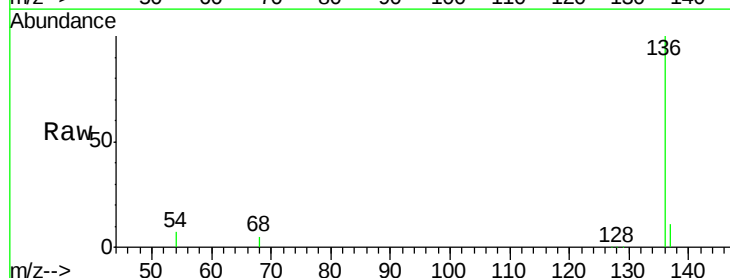
Tgt Ion:136 Resp: 124541

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

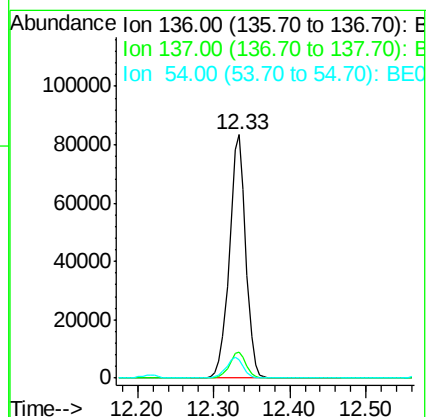
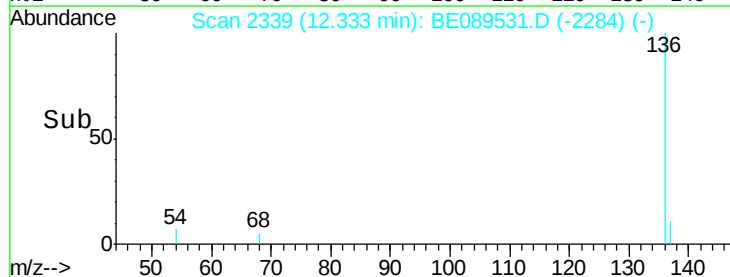
54 7.4 6.1 9.1



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





#3

Nitrobenzene-d5

Concen: 10.45 ng

RT: 10.69 min Scan# 1897

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDIC010

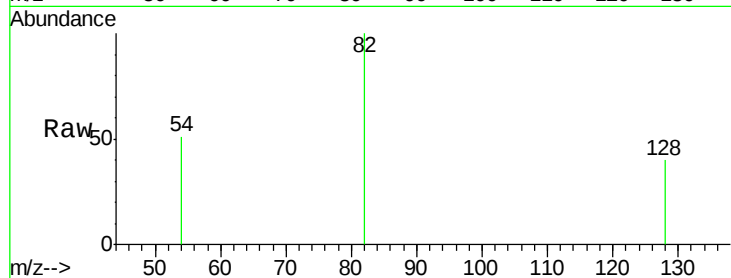
Tgt Ion: 82 Resp: 92222

Ion Ratio Lower Upper

82 100

128 40.0 30.2 45.4

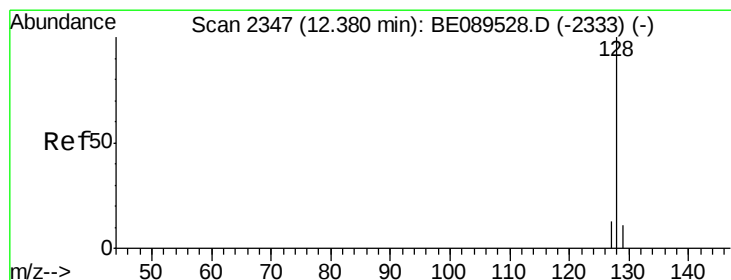
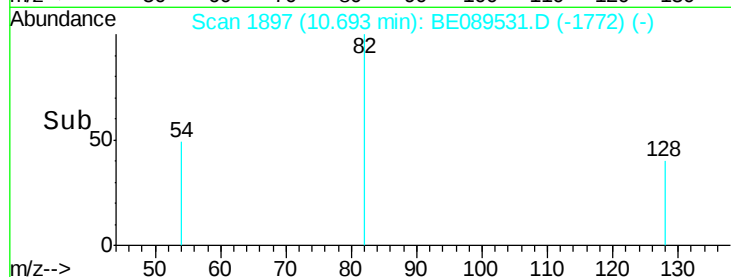
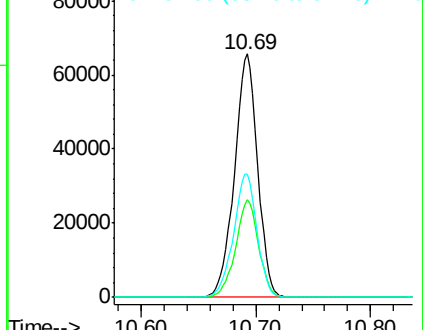
54 50.6 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 8.97 ng

RT: 12.38 min Scan# 2348

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

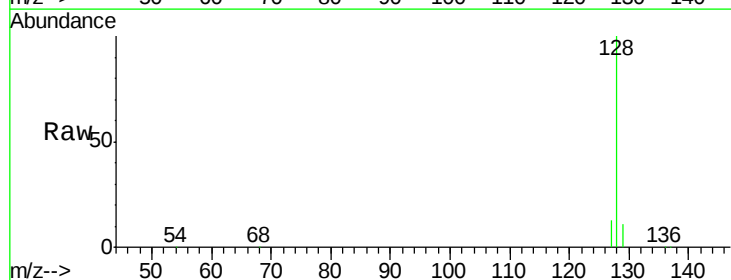
Tgt Ion: 128 Resp: 273694

Ion Ratio Lower Upper

128 100

129 10.8 9.1 13.7

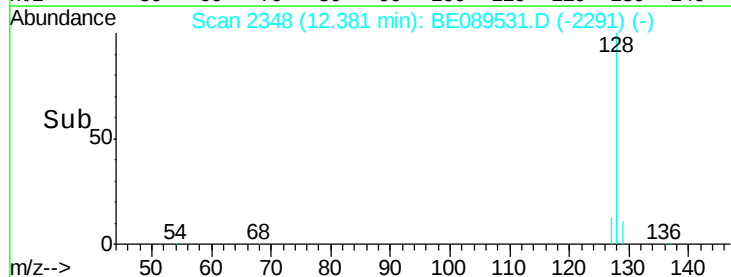
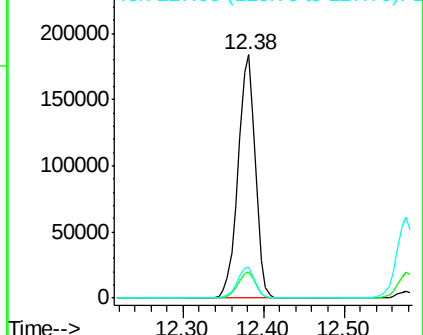
127 12.7 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 8.33 ng

RT: 14.04 min Scan# 2679

Delta R.T. -0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDIC010

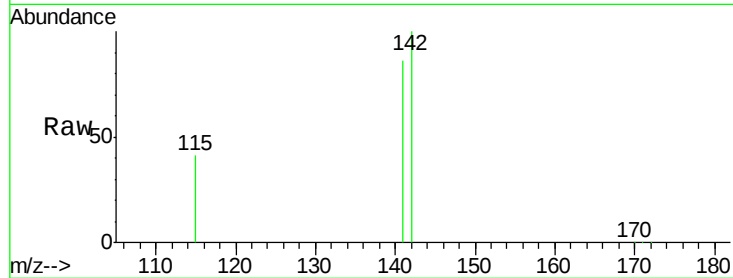
Tgt Ion:142 Resp: 161740

Ion Ratio Lower Upper

142 100

141 86.3 67.0 100.6

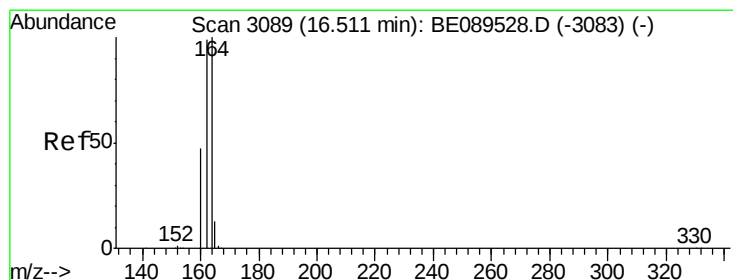
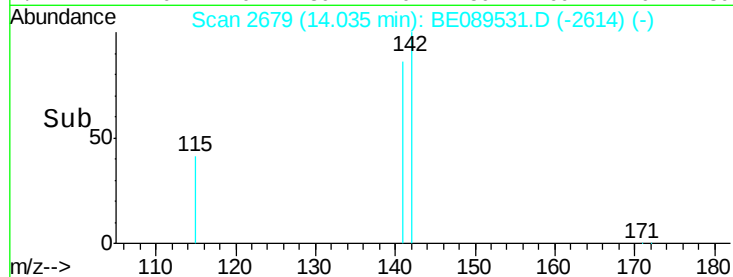
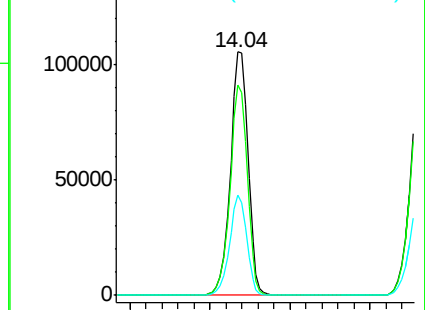
115 41.0 30.6 45.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.52 min Scan# 3091

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

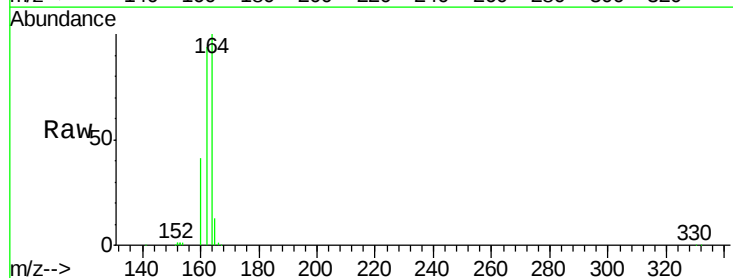
Tgt Ion:164 Resp: 49860

Ion Ratio Lower Upper

164 100

162 93.6 79.5 119.3

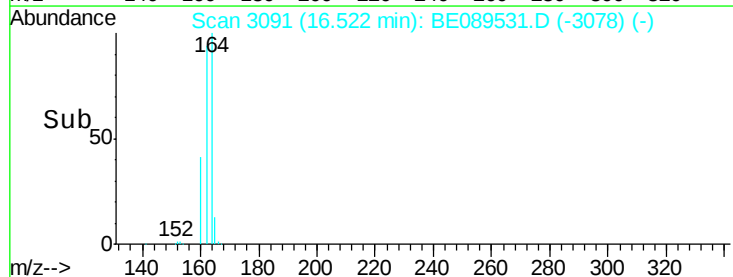
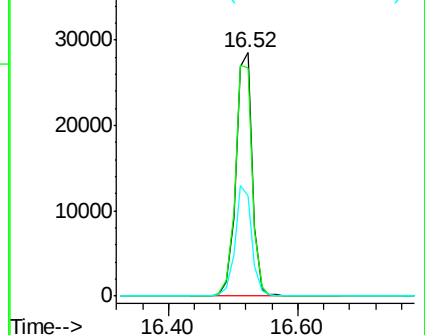
160 41.3 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 8.37 ng

RT: 14.97 min Scan# 2884

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

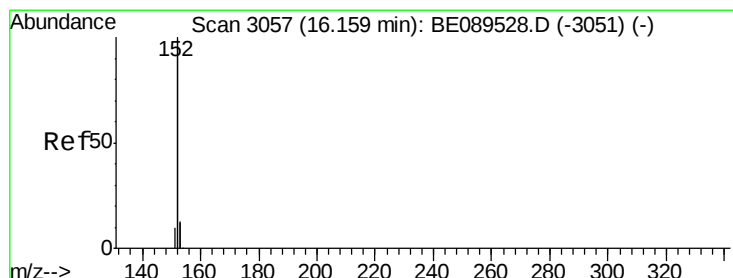
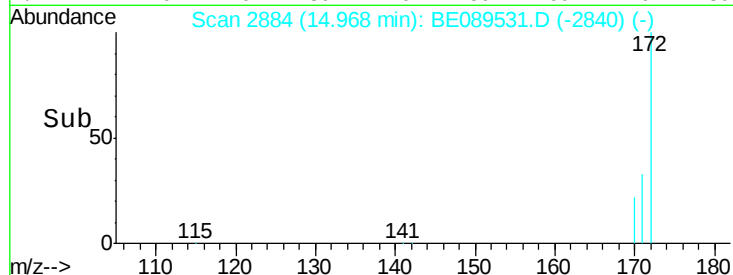
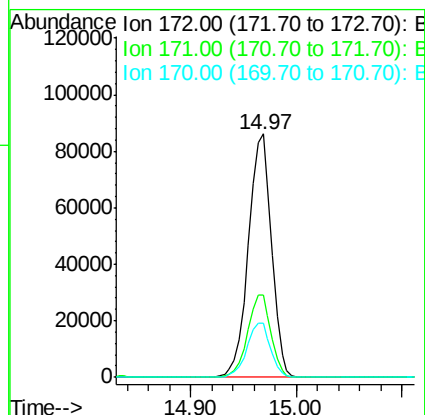
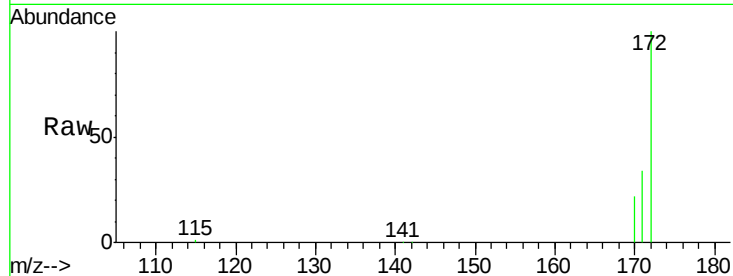
Instrument :

BNA\_E

LabSampleId :

SSTDIC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 131095 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 33.6  | 27.7  | 41.5   |
| 170      | 22.1  | 18.3  | 27.5   |



#8

Acenaphthylene

Concen: 8.76 ng

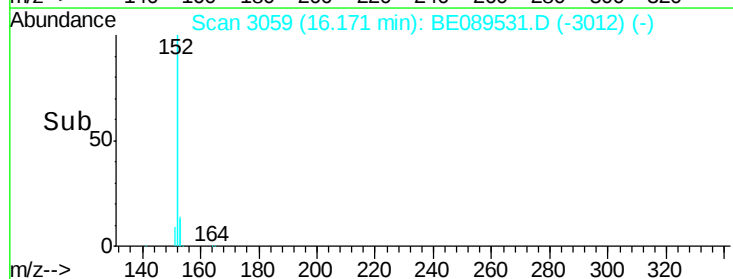
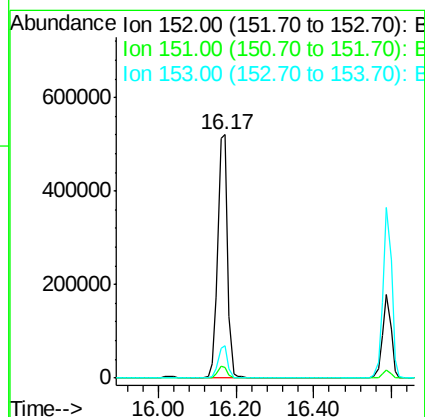
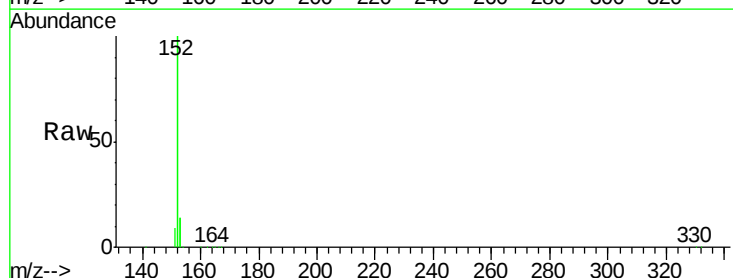
RT: 16.17 min Scan# 3059

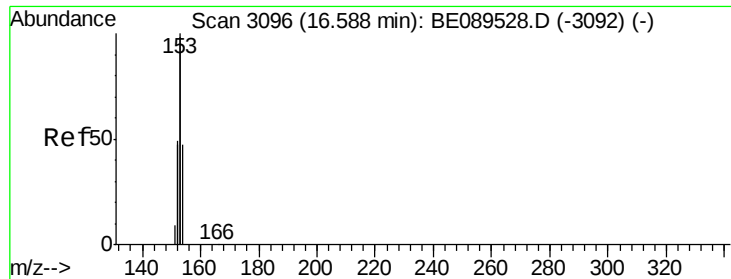
Delta R.T. 0.01 min

Lab File: BE089531.D

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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 918516 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 151      | 4.9   | 4.0   | 6.0    |
| 153      | 12.9  | 10.6  | 15.8   |





#9

Acenaphthene

Concen: 8.23 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDIC010

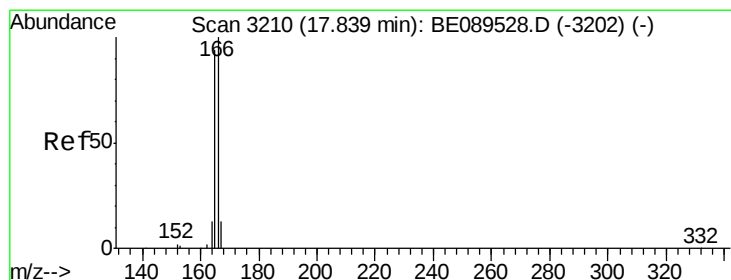
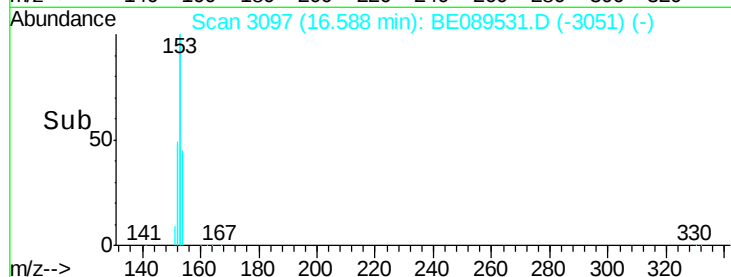
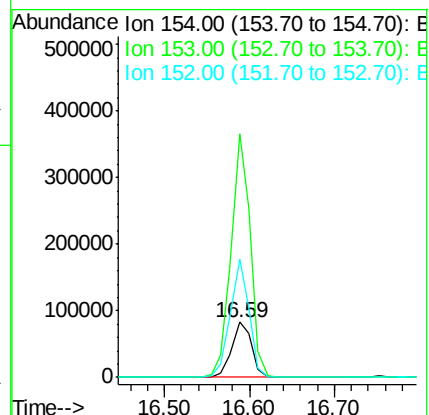
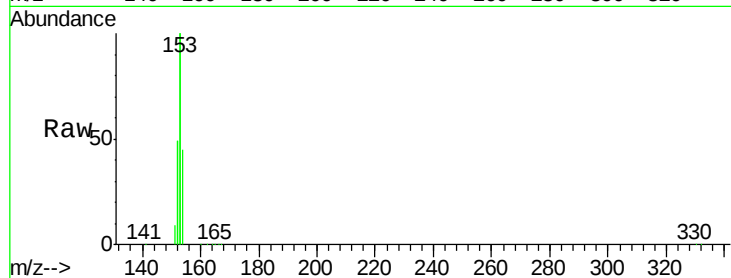
Tgt Ion:154 Resp: 132592

Ion Ratio Lower Upper

154 100

153 429.8 340.8 511.2

152 205.4 165.5 248.3



#10

Fluorene

Concen: 8.15 ng

RT: 17.84 min Scan# 3211

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

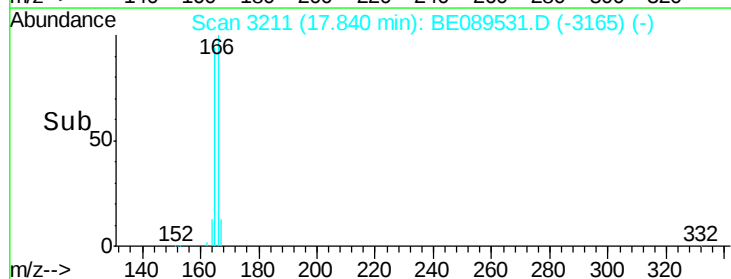
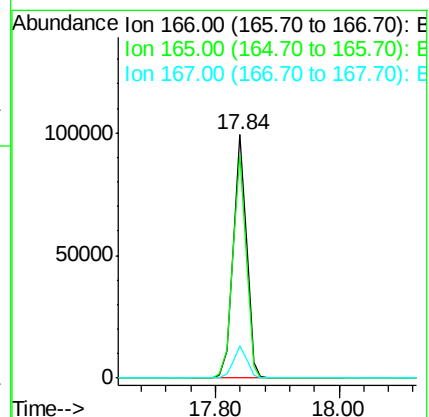
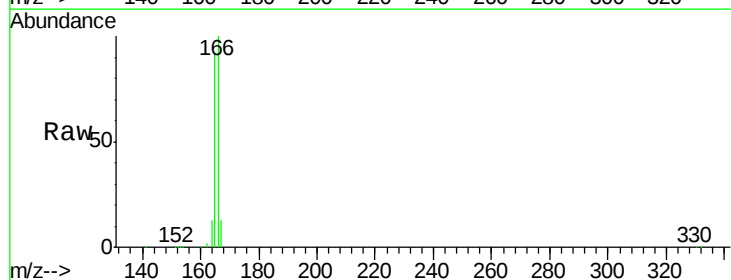
Tgt Ion:166 Resp: 147744

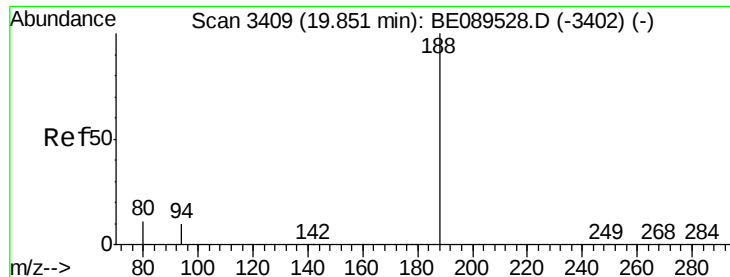
Ion Ratio Lower Upper

166 100

165 92.2 75.5 113.3

167 13.3 10.9 16.3

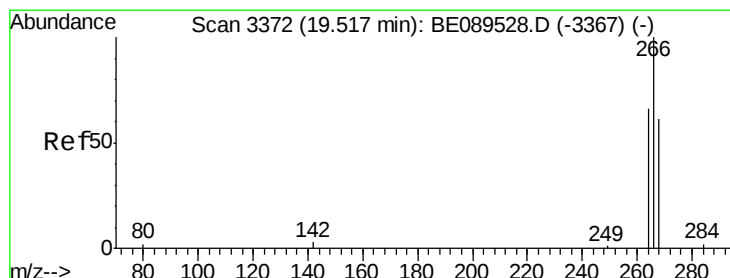
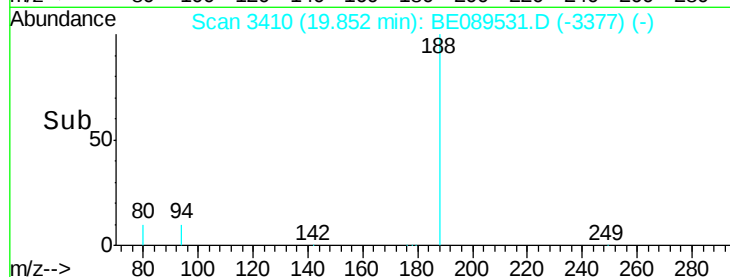
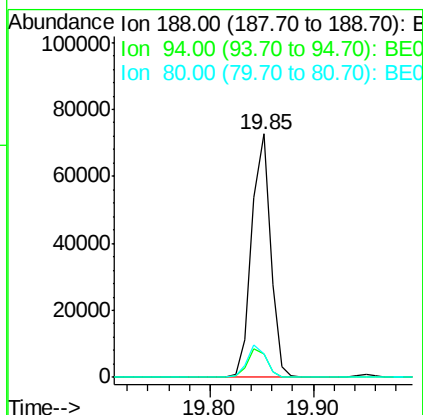
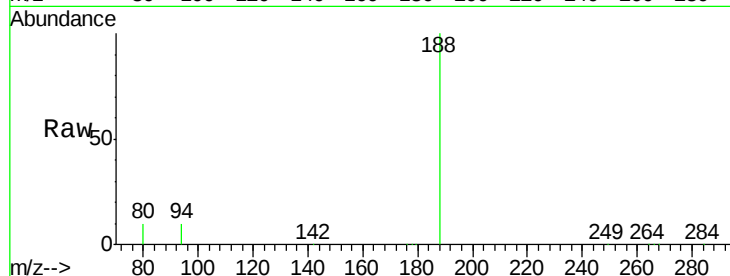




#11  
 Phenanthrene-d10  
 Concen: 5.00 ng  
 RT: 19.85 min Scan# 3410  
 Delta R.T. 0.00 min  
 Lab File: BE089531.D  
 Acq: 6 Feb 2015 17:09

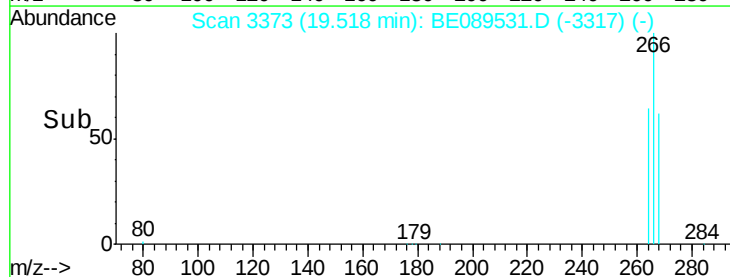
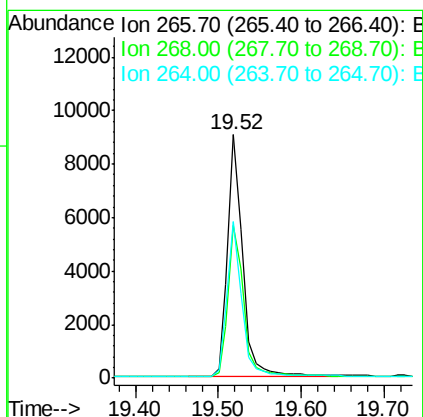
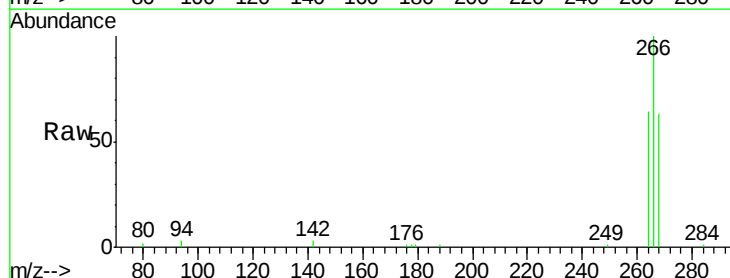
Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDICC010

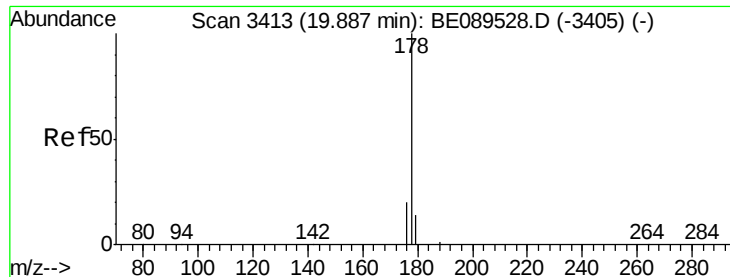
Tgt Ion:188 Resp: 92033  
 Ion Ratio Lower Upper  
 188 100  
 94 9.9 8.4 12.6  
 80 9.8 8.6 12.8



#12  
 Pentachlorophenol  
 Concen: 16.77 ng  
 RT: 19.52 min Scan# 3373  
 Delta R.T. 0.00 min  
 Lab File: BE089531.D  
 Acq: 6 Feb 2015 17:09

Tgt Ion:266 Resp: 11633  
 Ion Ratio Lower Upper  
 266 100  
 268 62.6 57.9 86.9  
 264 64.3 60.2 90.4

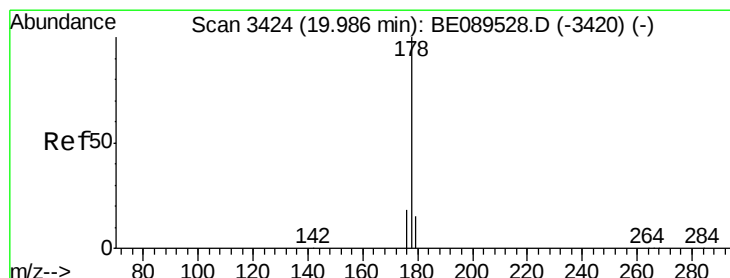
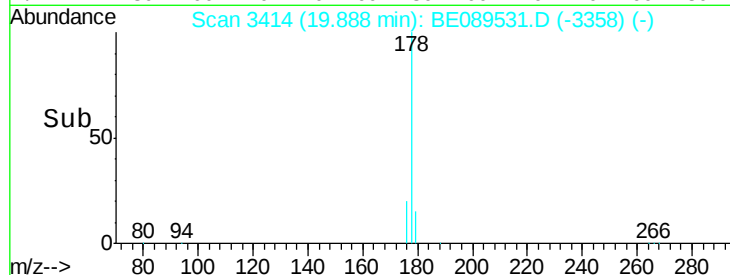
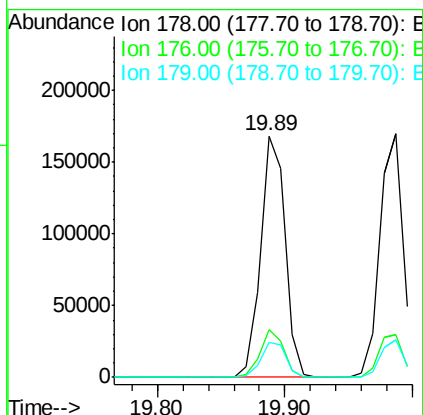
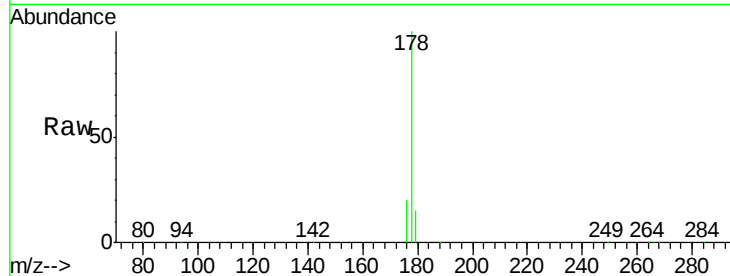




#13  
Phenanthrene  
Concen: 8.05 ng  
RT: 19.89 min Scan# 3414  
Delta R.T. 0.00 min  
Lab File: BE089531.D  
Acq: 6 Feb 2015 17:09

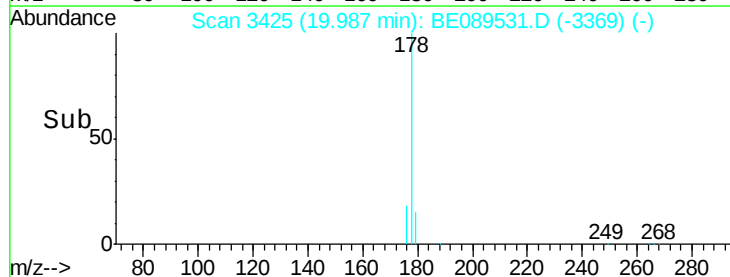
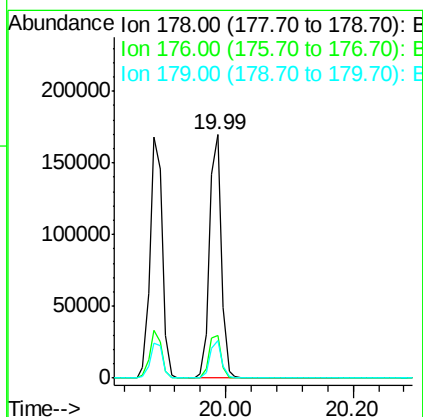
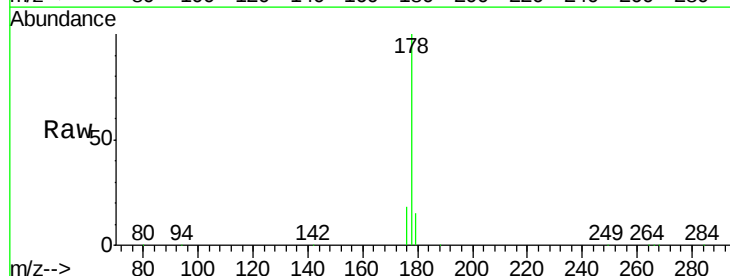
Instrument :  
BNA\_E  
LabSampleId :  
SSTDIC010

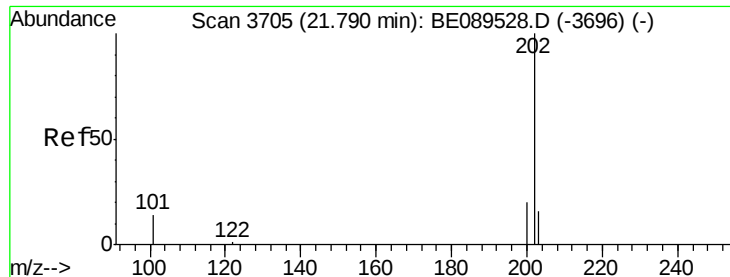
Tgt Ion:178 Resp: 223349  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.0  
179 15.2 12.2 18.2



#14  
Anthracene  
Concen: 8.66 ng  
RT: 19.99 min Scan# 3425  
Delta R.T. 0.00 min  
Lab File: BE089531.D  
Acq: 6 Feb 2015 17:09

Tgt Ion:178 Resp: 217475  
Ion Ratio Lower Upper  
178 100  
176 18.2 14.5 21.7  
179 15.2 12.2 18.2

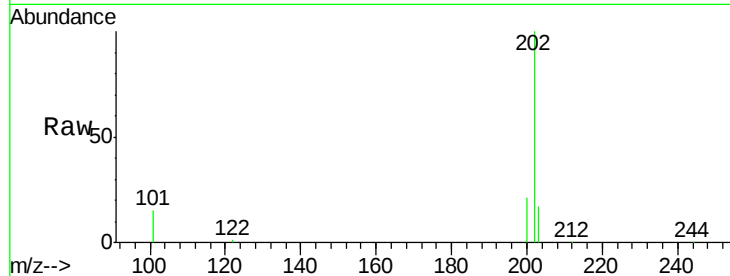




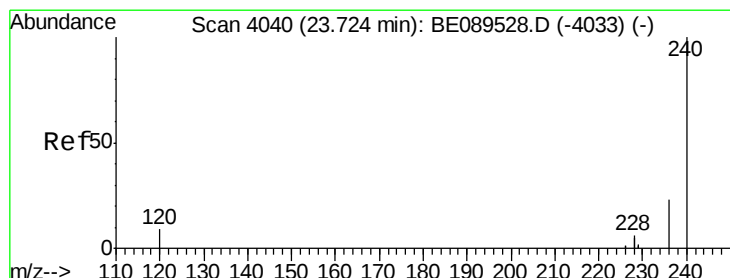
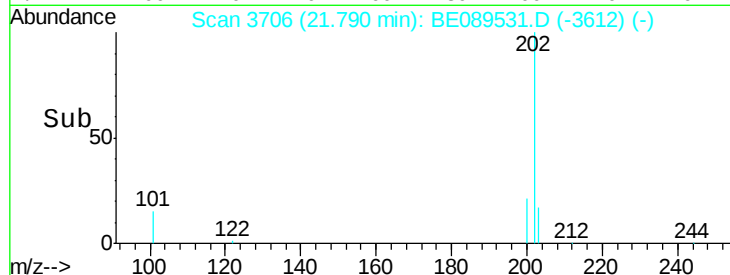
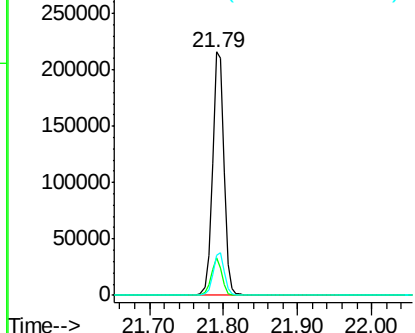
#15  
Fluoranthene  
Concen: 9.15 ng  
RT: 21.79 min Scan# 3706  
Delta R.T. 0.00 min  
Lab File: BE089531.D  
Acq: 6 Feb 2015 17:09

Instrument :  
BNA\_E  
LabSampleId :  
SSTDIC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.1  | 11.6  | 17.4  |
| 203     | 17.2  | 13.6  | 20.4  |

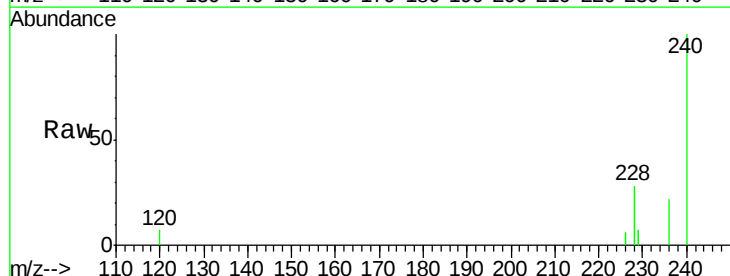


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

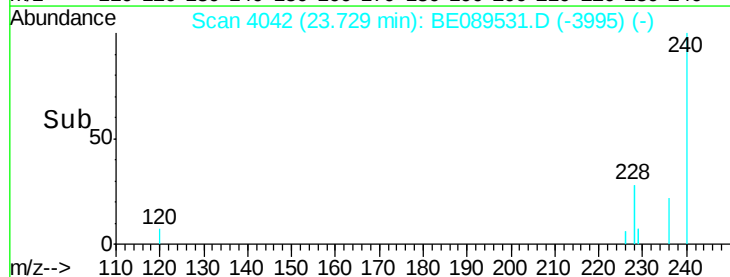
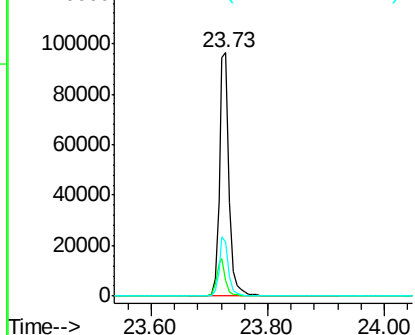


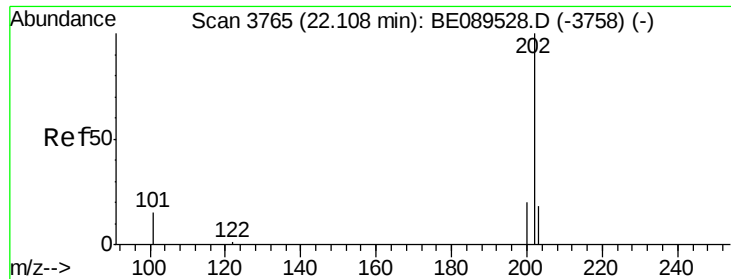
#16  
Chrysene-d12  
Concen: 5.00 ng  
RT: 23.73 min Scan# 4042  
Delta R.T. 0.00 min  
Lab File: BE089531.D  
Acq: 6 Feb 2015 17:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 6.7   | 7.2   | 10.8# |
| 236     | 22.1  | 18.5  | 27.7  |



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: 7.27 ng

RT: 22.11 min Scan# 3766

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDIC010

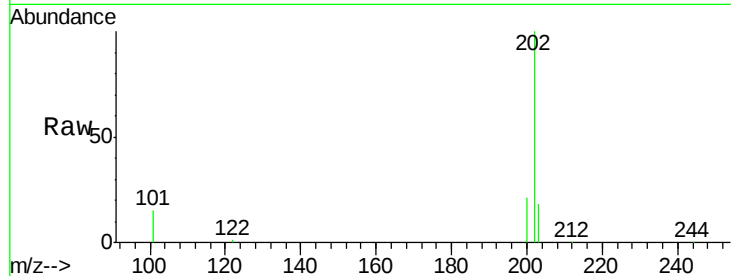
Tgt Ion:202 Resp: 249581

Ion Ratio Lower Upper

202 100

200 20.7 16.3 24.5

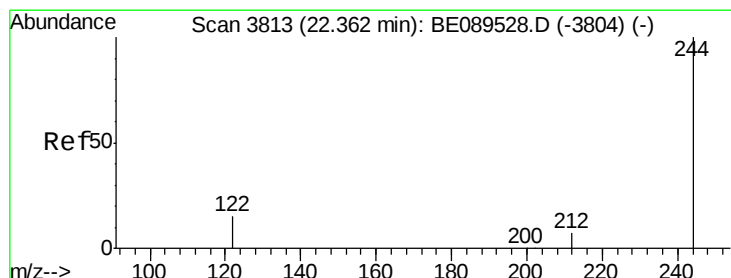
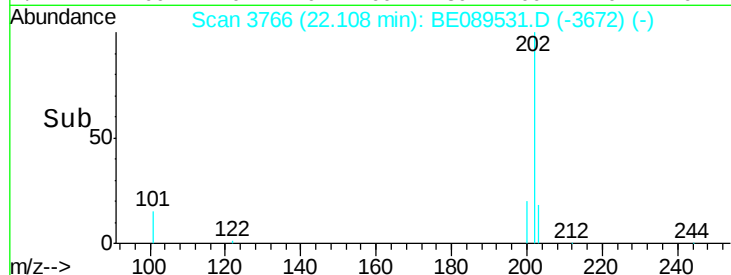
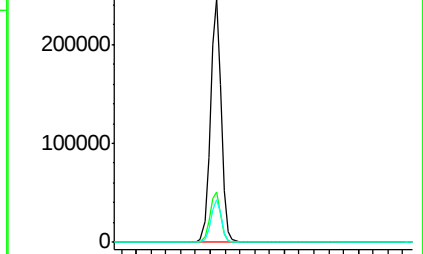
203 17.4 13.5 20.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 7.40 ng

RT: 22.37 min Scan# 3815

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

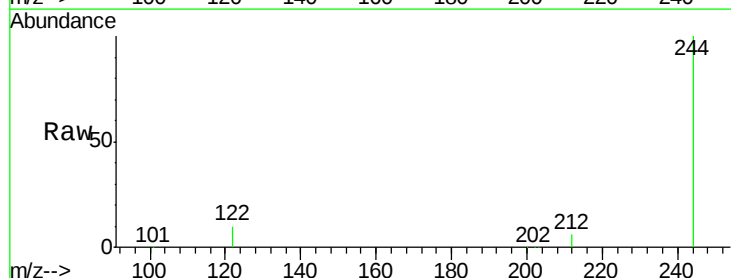
Tgt Ion:244 Resp: 149300

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.8

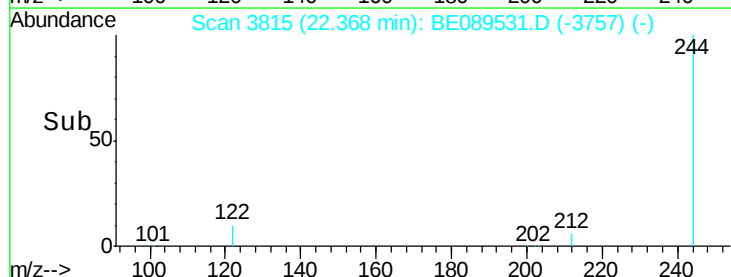
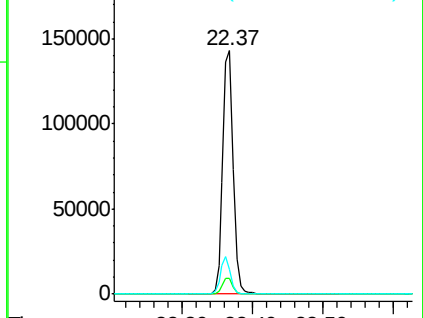
122 10.4 12.6 19.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 8.27 ng

RT: 23.71 min Scan# 4039

Delta R.T. -0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDIC010

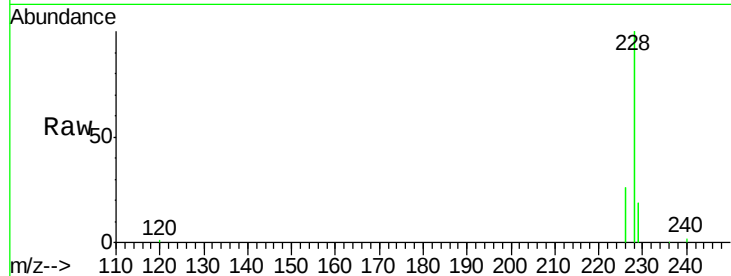
Tgt Ion:228 Resp: 1015147

Ion Ratio Lower Upper

228 100

226 26.3 19.0 28.4

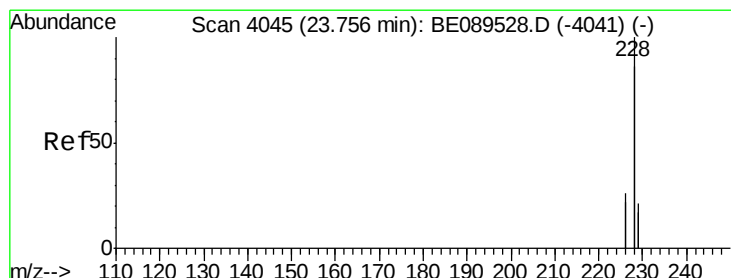
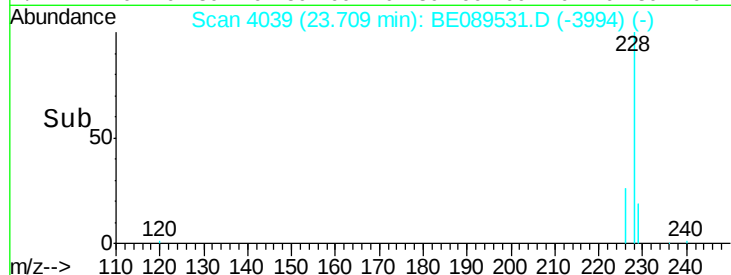
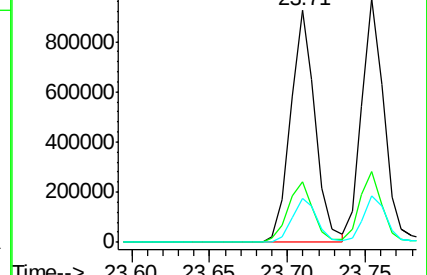
229 19.1 16.8 25.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 7.82 ng

RT: 23.75 min Scan# 4046

Delta R.T. -0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

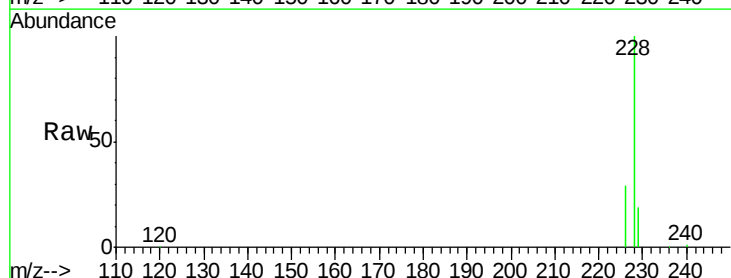
Tgt Ion:228 Resp: 996778

Ion Ratio Lower Upper

228 100

226 29.2 21.0 31.4

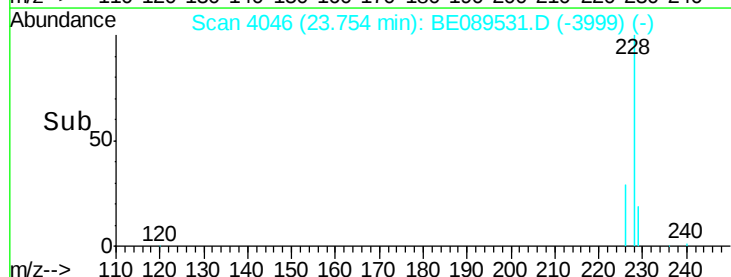
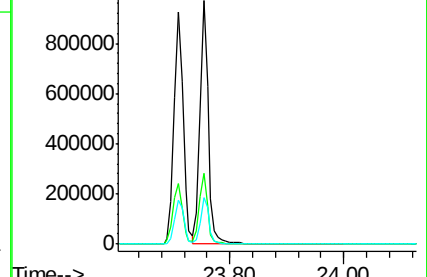
229 18.9 16.7 25.1

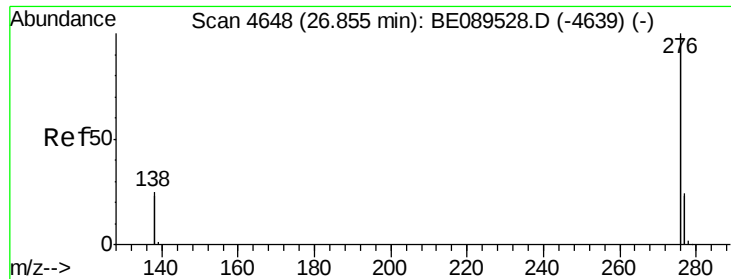


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 10.28 ng

RT: 26.86 min Scan# 4650

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDIC010

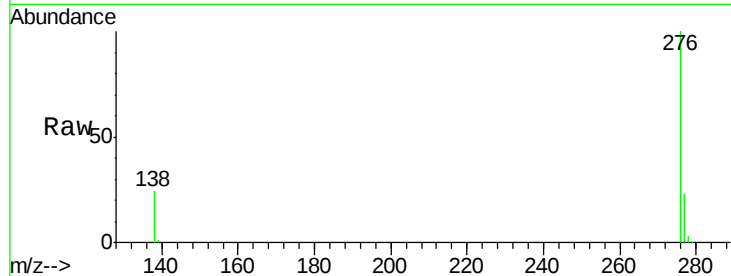
Tgt Ion:276 Resp: 1456290

Ion Ratio Lower Upper

276 100

138 28.9 23.0 34.4

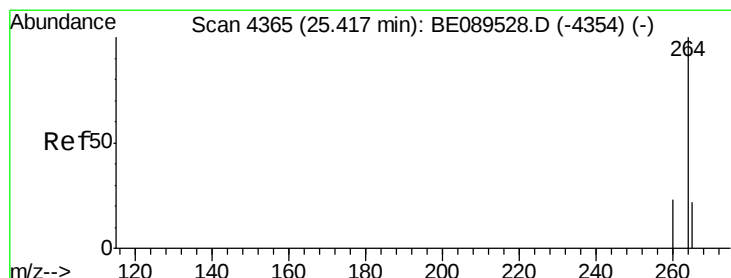
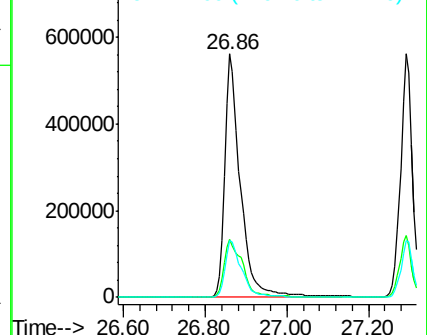
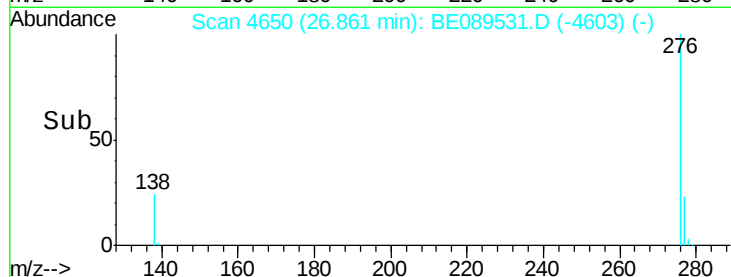
277 25.2 19.9 29.9



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.42 min Scan# 4367

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

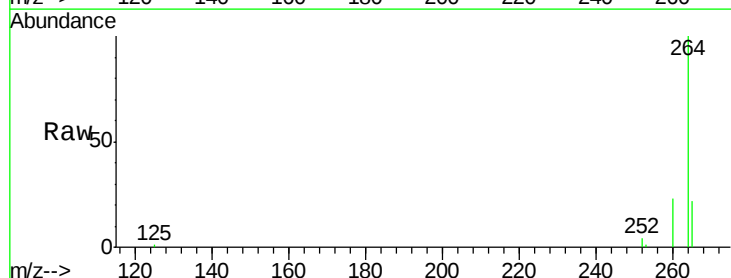
Tgt Ion:264 Resp: 122242

Ion Ratio Lower Upper

264 100

260 22.9 18.7 28.1

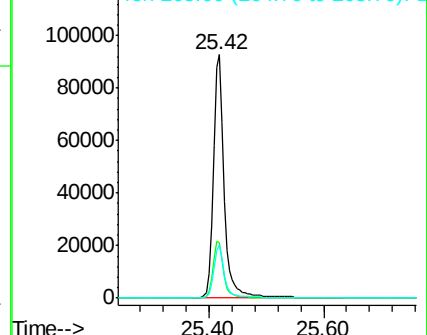
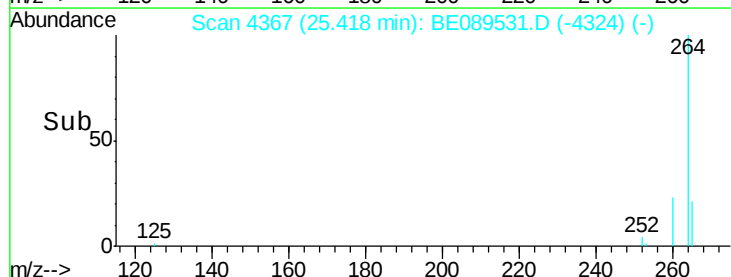
265 21.6 17.5 26.3

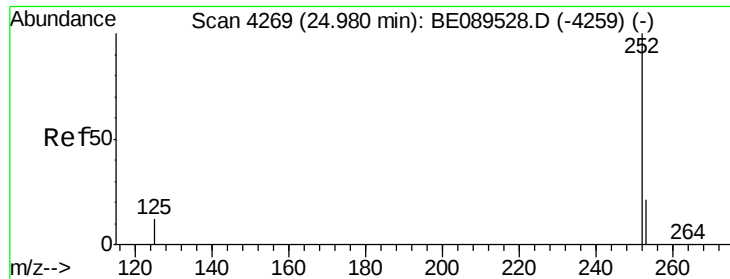


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

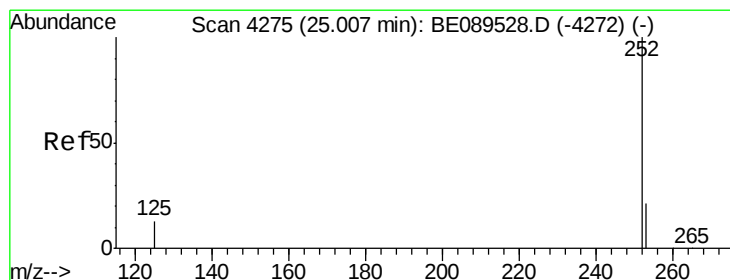
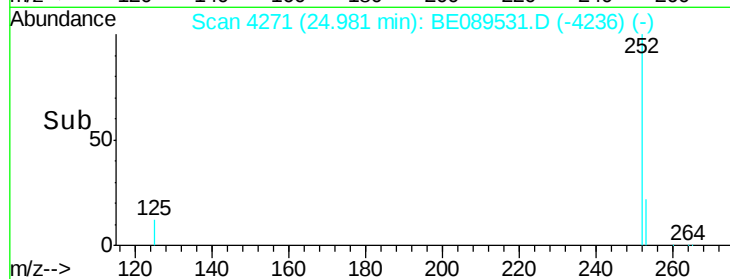
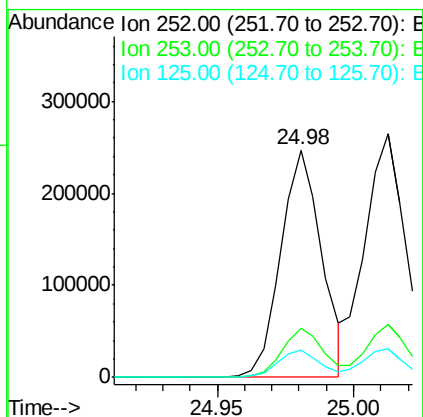
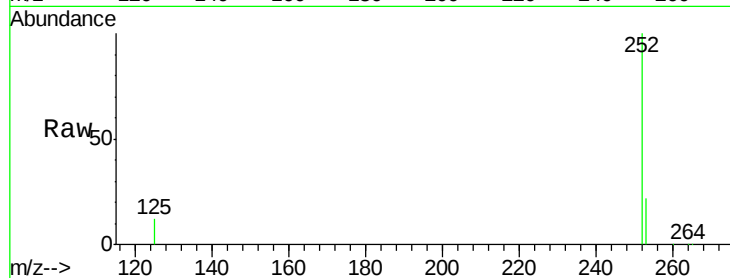




#23  
Benzo(b)fluoranthene  
Concen: 9.50 ng  
RT: 24.98 min Scan# 4271  
Delta R.T. 0.00 min  
Lab File: BE089531.D  
Acq: 6 Feb 2015 17:09

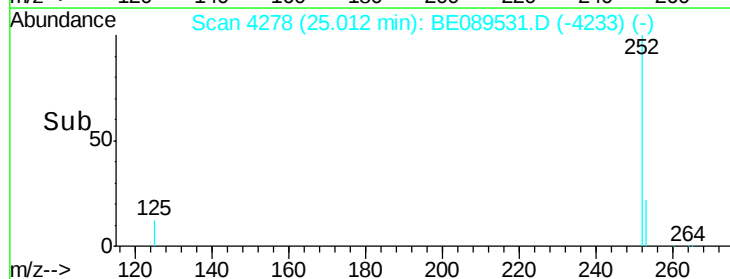
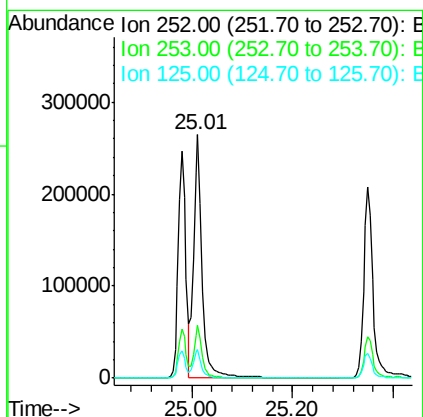
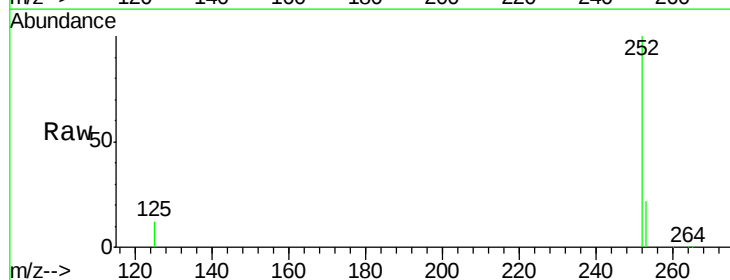
Instrument :  
BNA\_E  
LabSampleId :  
SSTDIC010

Tgt Ion: 252 Resp: 257145  
Ion Ratio Lower Upper  
252 100  
253 21.7 17.4 26.0  
125 11.9 10.4 15.6



#24  
Benzo(k)fluoranthene  
Concen: 7.99 ng  
RT: 25.01 min Scan# 4278  
Delta R.T. 0.01 min  
Lab File: BE089531.D  
Acq: 6 Feb 2015 17:09

Tgt Ion: 252 Resp: 310609  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.2 25.8  
125 11.7 10.6 15.8





#25

Benzo(a)pyrene

Concen: 9.53 ng

RT: 25.35 min Scan# 4352

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDICC010

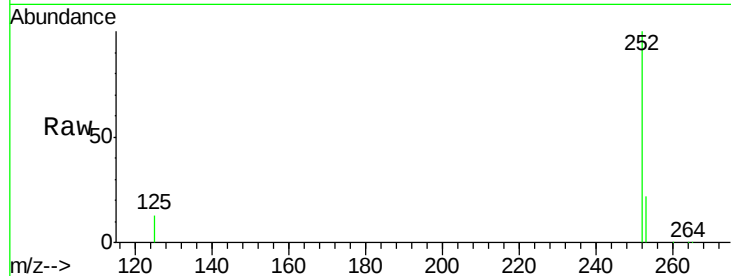
Tgt Ion:252 Resp: 270359

Ion Ratio Lower Upper

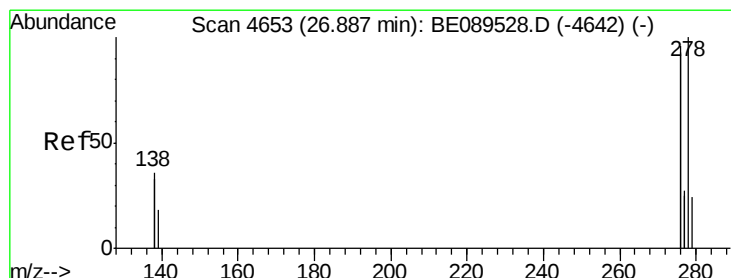
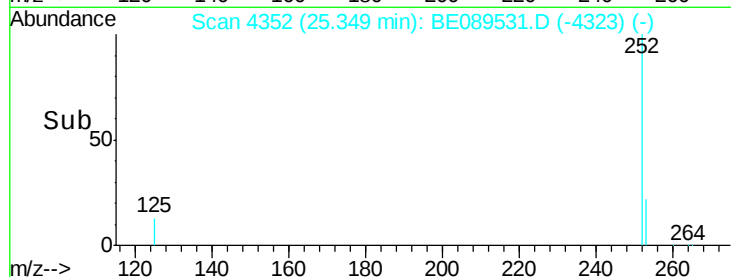
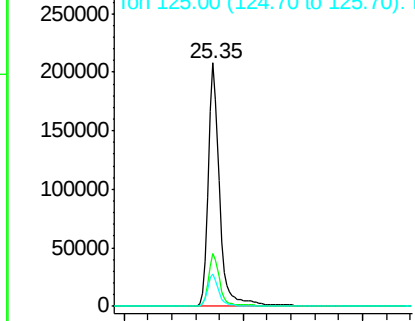
252 100

253 21.5 17.8 26.6

125 13.2 11.4 17.2



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 9.95 ng

RT: 26.89 min Scan# 4655

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

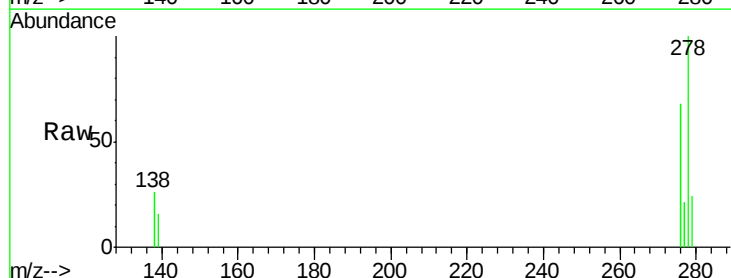
Tgt Ion:278 Resp: 314371

Ion Ratio Lower Upper

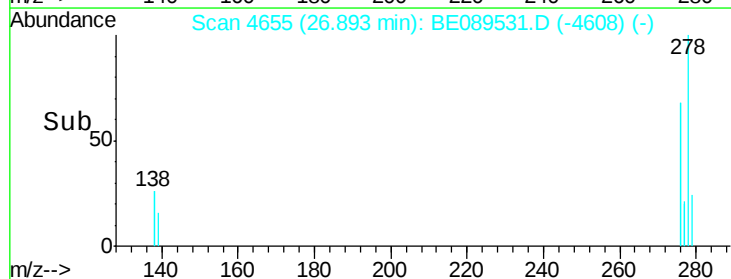
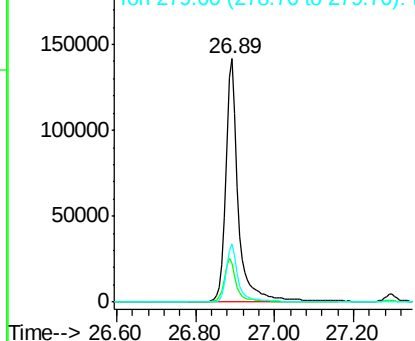
278 100

139 16.2 15.7 23.5

279 23.9 19.5 29.3



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 9.14 ng

RT: 27.29 min Scan# 4716

Delta R.T. 0.01 min

Lab File: BE089531.D

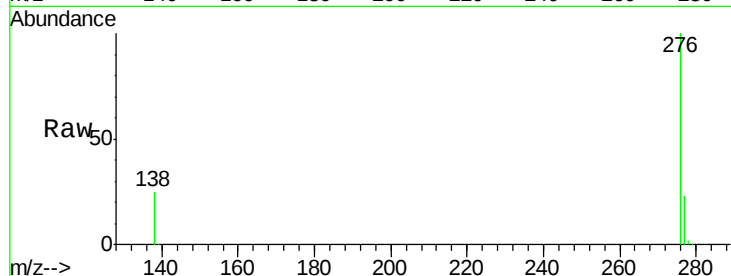
Acq: 6 Feb 2015 17:09

Instrument :

BNA\_E

LabSampleId :

SSTDIC010



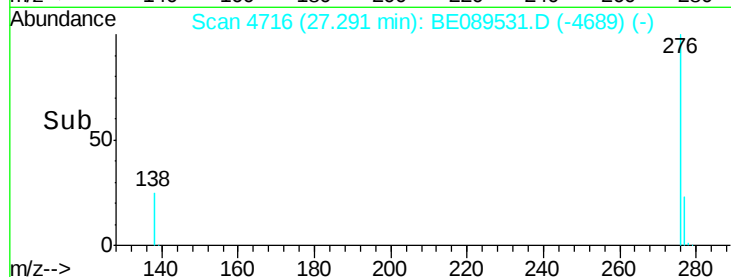
Tgt Ion: 276 Resp: 1208292

Ion Ratio Lower Upper

276 100

277 23.2 18.6 27.8

138 25.5 20.9 31.3



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

