

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE070115\  
 Data File : BE090045.D  
 Acq On : 1 Jul 2015 17:46  
 Operator : TP/IZ  
 Sample : G2811-09  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 X1SB0510204-150625

Quant Time: Jul 02 05:15:24 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BE062915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 30 07:01:01 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 12754    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.37 | 136  | 54544    | 5.00 | ng    | -0.02    |
| 12) Acenaphthene-d10      | 14.23 | 164  | 30408    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.96 | 188  | 69730    | 5.00 | ng    | -0.02    |
| 25) Chrysene-d12          | 21.12 | 240  | 85842    | 5.00 | ng    | -0.01    |
| 32) Perylene-d12          | 23.44 | 264  | 79998    | 5.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.24  | 112  | 18197    | 6.21 | ng    | 0.00     |
| 5) Phenol-d6                | 6.80  | 99   | 26911    | 6.56 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.75  | 82   | 15992    | 3.69 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.73 | 330  | 5242     | 5.88 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.85 | 172  | 35381    | 3.87 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.58 | 244  | 54355    | 3.80 | ng    | -0.01    |

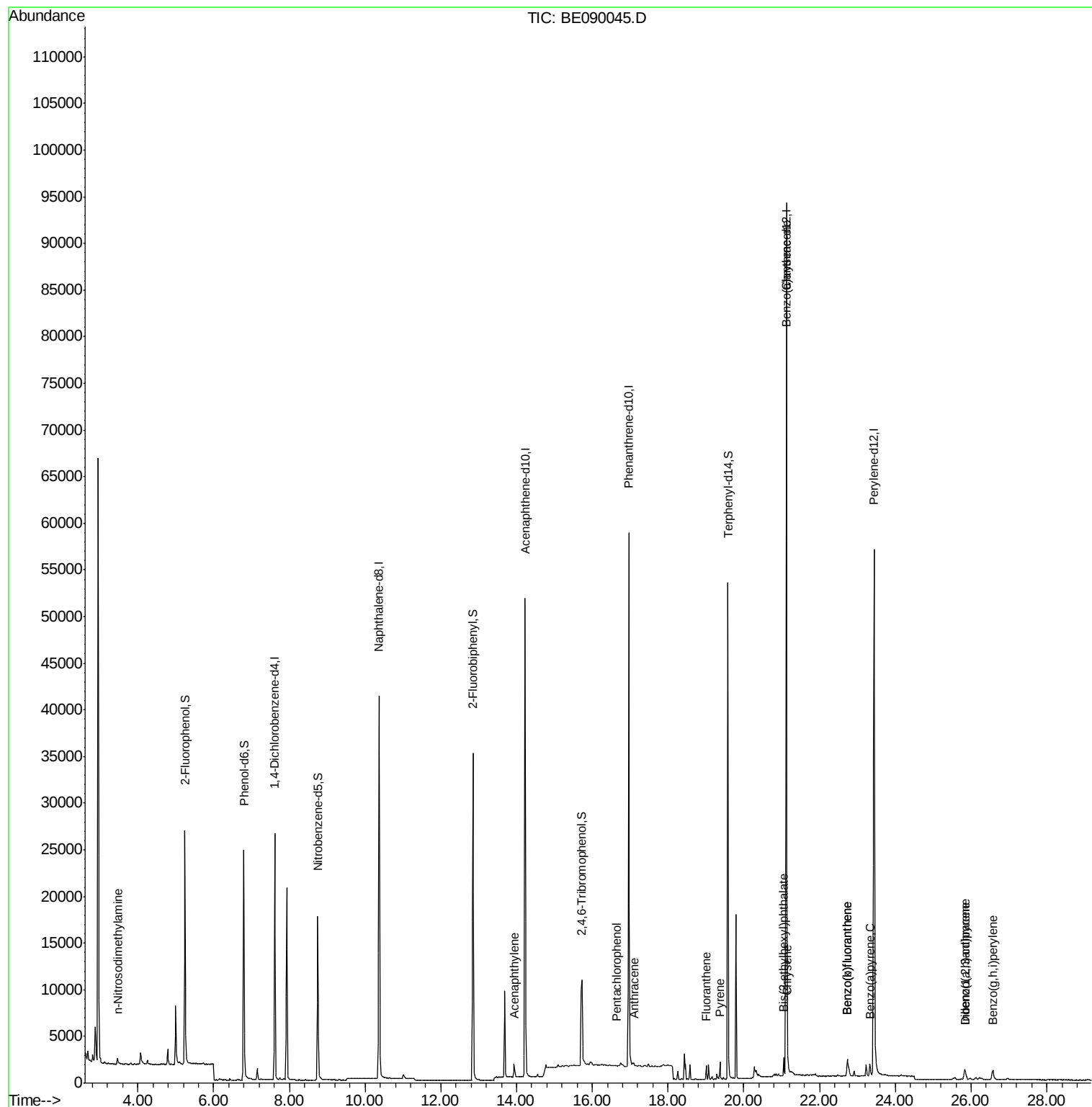
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 3) n-Nitrosodimethylamine      | 3.45  | 42   | 167      | 0.07 | ng    | # 1    |
| 15) Acenaphthylene             | 13.94 | 152  | 2176     | 0.04 | ng    | 96     |
| 21) Pentachlorophenol          | 16.65 | 266  | 8        | 0.26 | ng    | # 54   |
| 23) Anthracene                 | 17.10 | 178  | 379      | 0.02 | ng    | 98     |
| 24) Fluoranthene               | 19.01 | 202  | 1315     | 0.07 | ng    | 98     |
| 26) Pyrene                     | 19.37 | 202  | 1643     | 0.08 | ng    | 98     |
| 28) Benzo(a)anthracene         | 21.11 | 228  | 1628     | 0.08 | ng    | # 76   |
| 29) Chrysene                   | 21.15 | 228  | 1544     | 0.07 | ng    | # 90   |
| 30) Bis(2-ethylhexyl)phthalate | 21.05 | 149  | 1890     | 0.49 | ng    | 100    |
| 31) Indeno(1,2,3-cd)pyrene     | 25.83 | 276  | 1835     | 0.09 | ng    | 99     |
| 33) Benzo(b)fluoranthene       | 22.73 | 252  | 2885     | 0.16 | ng    | # 82   |
| 34) Benzo(k)fluoranthene       | 22.73 | 252  | 2885     | 0.15 | ng    | # 82   |
| 35) Benzo(a)pyrene             | 23.33 | 252  | 1949     | 0.12 | ng    | # 75   |
| 36) Dibenzo(a,h)anthracene     | 25.85 | 278  | 640      | 0.04 | ng    | # 51   |
| 37) Benzo(g,h,i)perylene       | 26.57 | 276  | 2305     | 0.14 | ng    | # 85   |

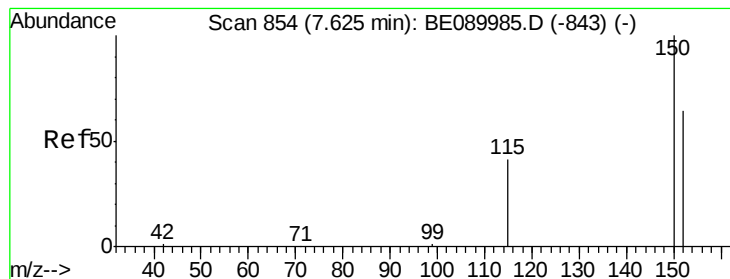
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 30 07:01:01 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.62 min Scan# 852

Delta R.T. -0.01 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

X1SB0510204-150625

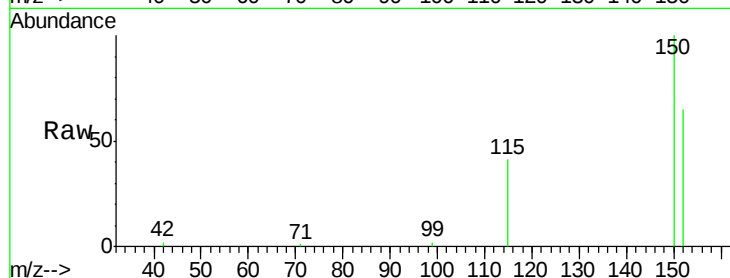
Tgt Ion:152 Resp: 12754

Ion Ratio Lower Upper

152 100

150 154.2 123.9 185.9

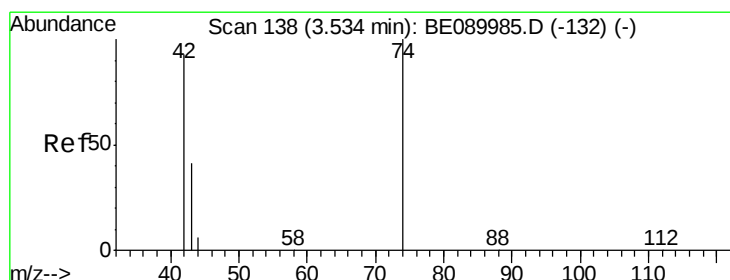
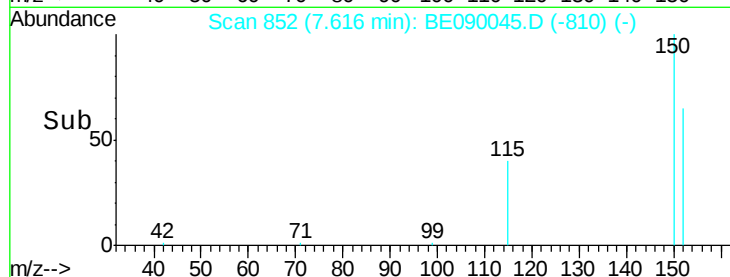
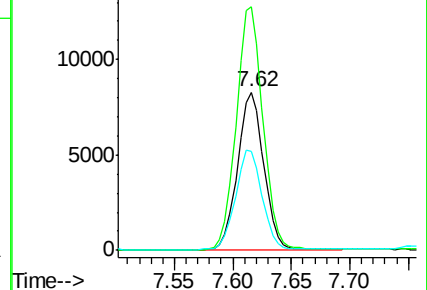
115 62.5 50.6 76.0



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



#3

n-Nitrosodimethylamine

Concen: 0.07 ng

RT: 3.45 min Scan# 126

Delta R.T. -0.08 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

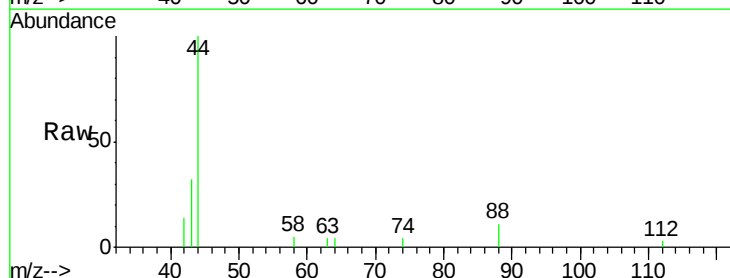
Tgt Ion: 42 Resp: 167

Ion Ratio Lower Upper

42 100

74 0.6 89.4 134.2#

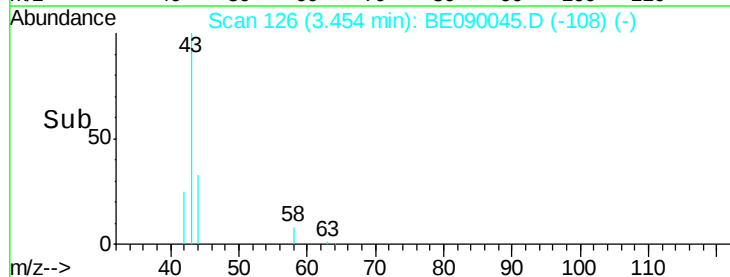
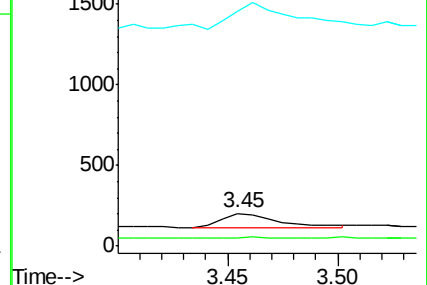
44 197.6 6.9 10.3#

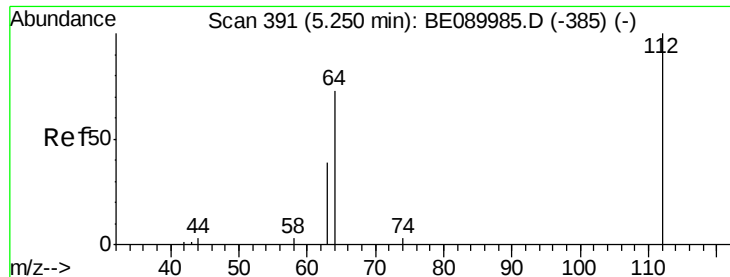


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 6.21 ng

RT: 5.24 min Scan# 390

Delta R.T. -0.01 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

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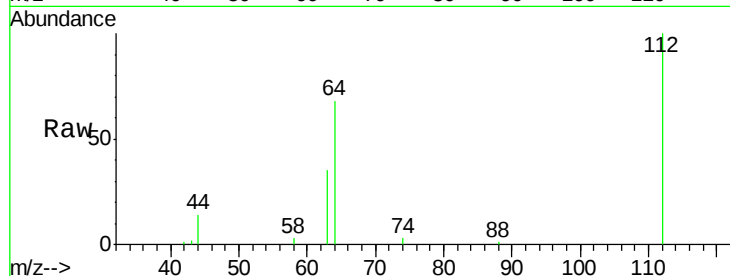
Tgt Ion: 112 Resp: 18197

Ion Ratio Lower Upper

112 100

64 70.3 56.3 84.5

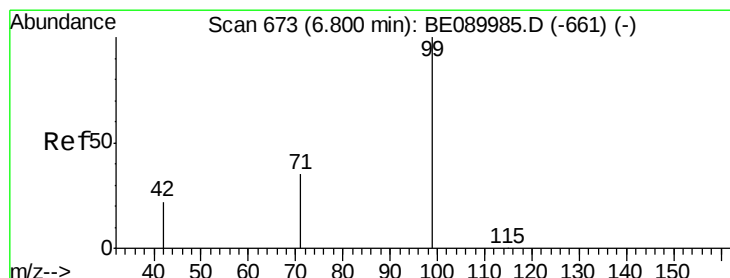
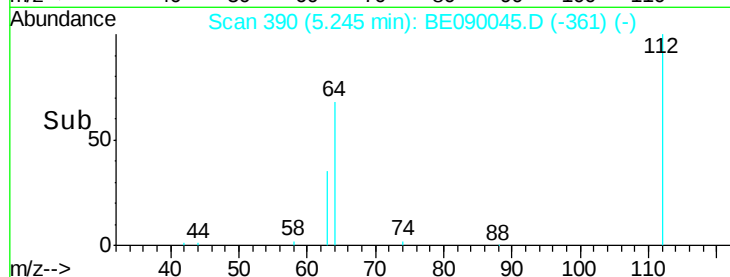
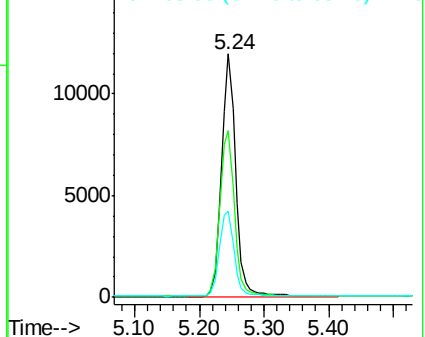
63 36.9 29.8 44.6



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 6.56 ng

RT: 6.80 min Scan# 672

Delta R.T. -0.00 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

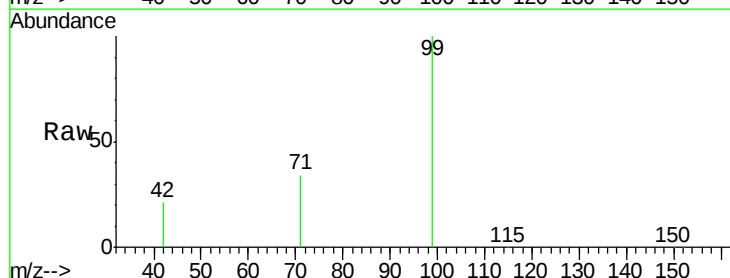
Tgt Ion: 99 Resp: 26911

Ion Ratio Lower Upper

99 100

42 20.5 18.7 28.1

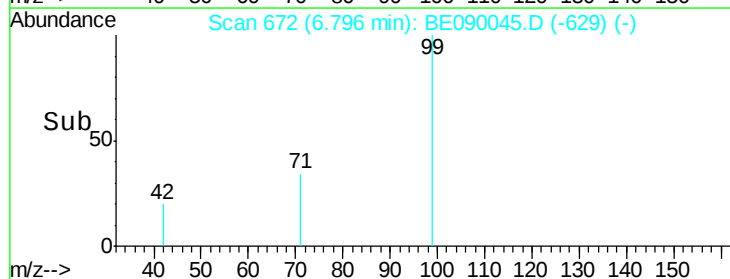
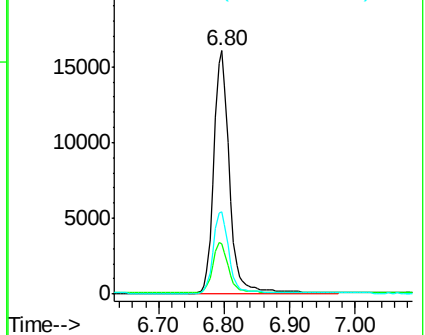
71 34.0 27.5 41.3

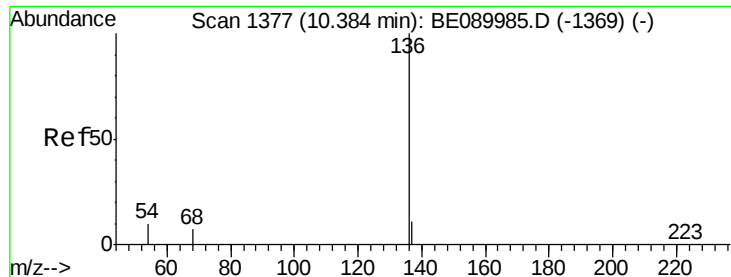


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.37 min Scan# 1375

Delta R.T. -0.02 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

X1SB0510204-150625

Tgt Ion: 136 Resp: 54544

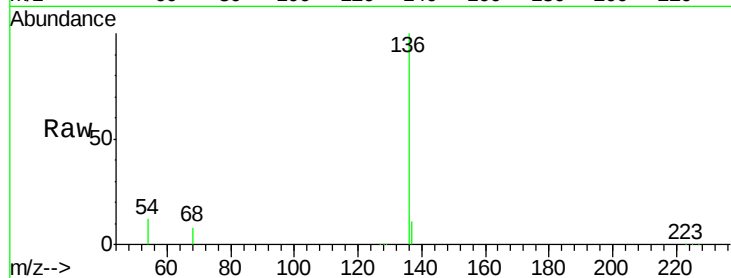
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 11.6 8.2 12.4

68 8.3 5.8 8.8

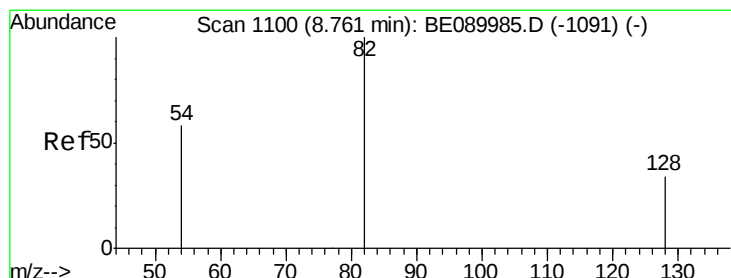
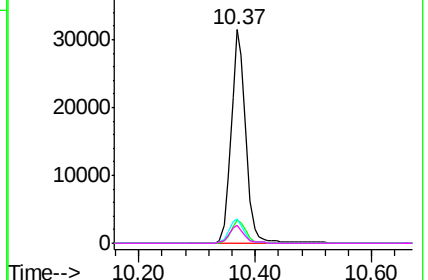
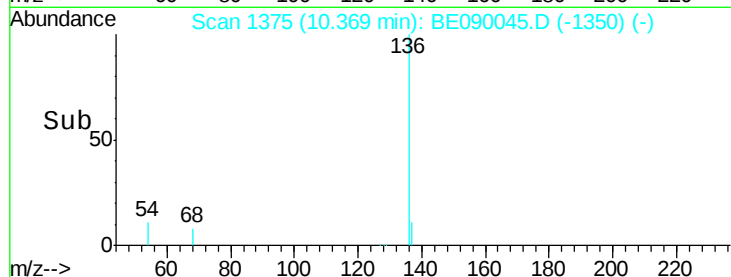


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#7

Nitrobenzene-d5

Concen: 3.69 ng

RT: 8.75 min Scan# 1098

Delta R.T. -0.01 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

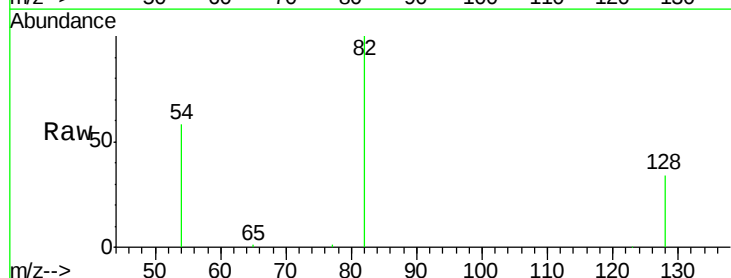
Tgt Ion: 82 Resp: 15992

Ion Ratio Lower Upper

82 100

128 34.1 28.0 42.0

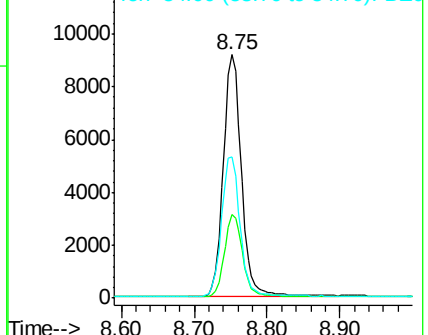
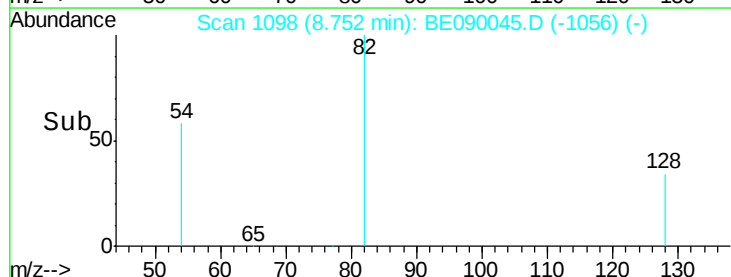
54 58.2 47.6 71.4

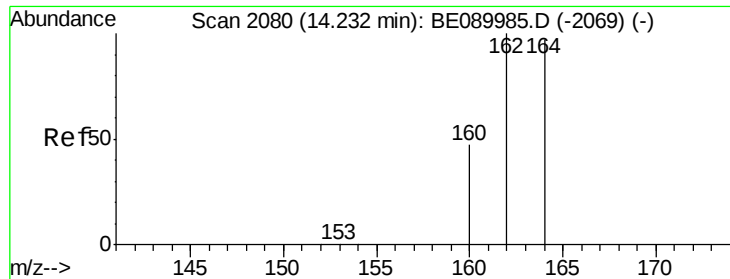


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.23 min Scan# 2079

Delta R.T. -0.01 min

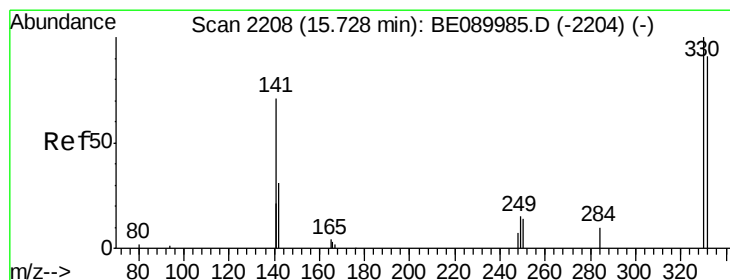
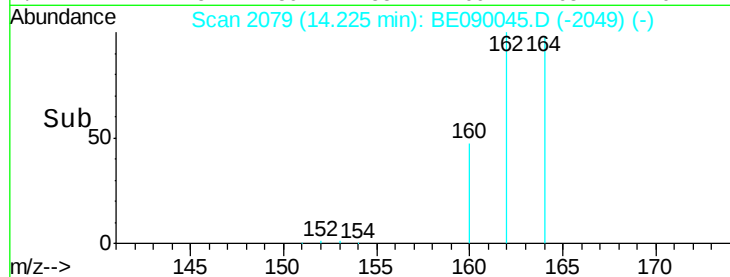
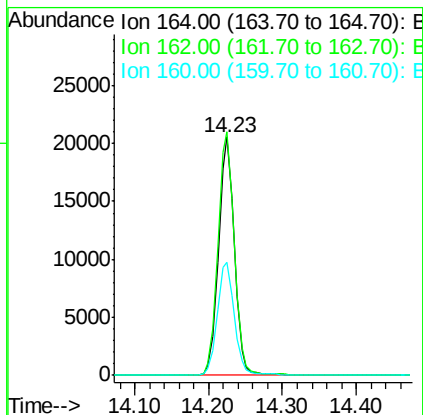
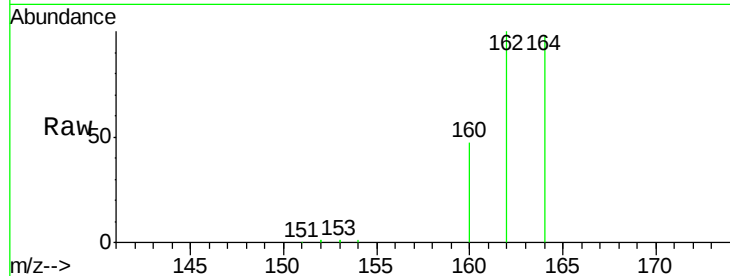
Lab File: BE090045.D

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Tgt Ion: 164 Resp: 30408

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 102.2 | 82.2  | 123.4 |
| 160 | 47.7  | 39.0  | 58.6  |



#13

2,4,6-Tribromophenol

Concen: 5.88 ng

RT: 15.73 min Scan# 2207

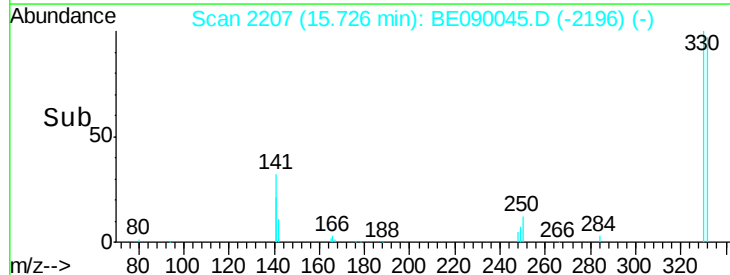
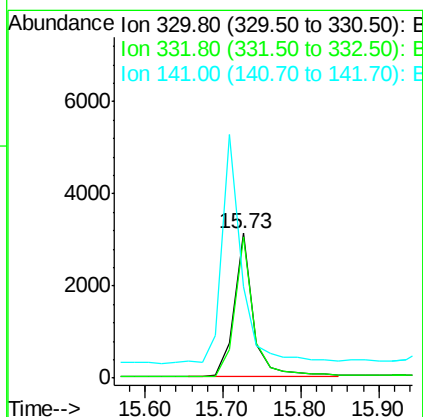
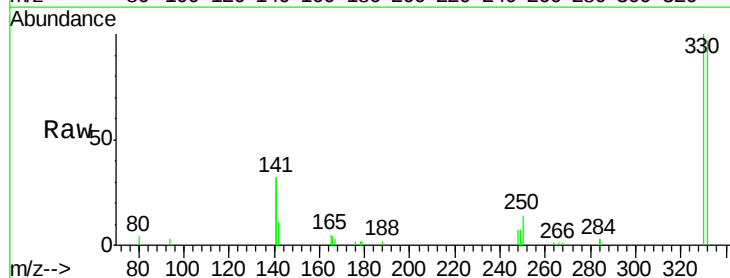
Delta R.T. -0.00 min

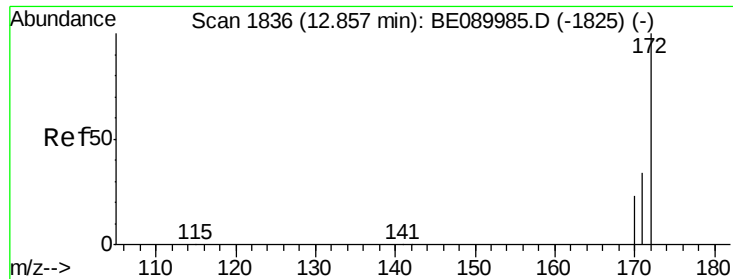
Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Tgt Ion: 330 Resp: 5242

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.1  | 76.4  | 114.6 |
| 141 | 167.0 | 130.3 | 195.5 |

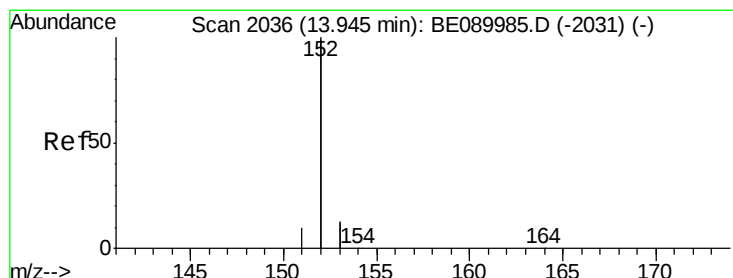
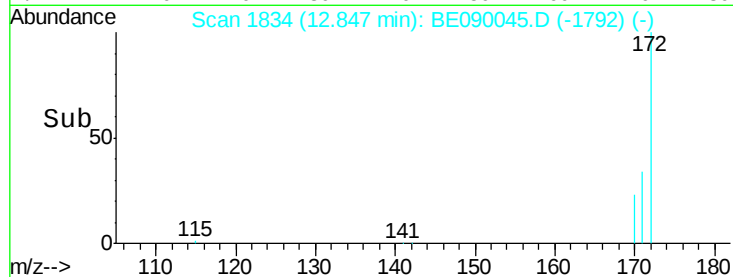
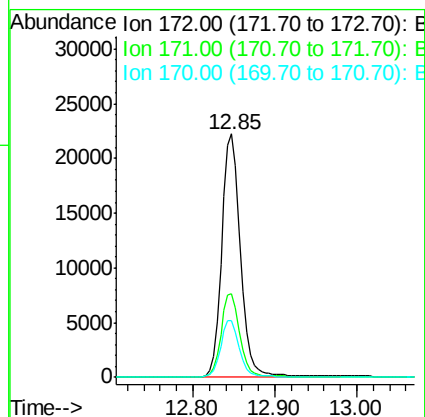
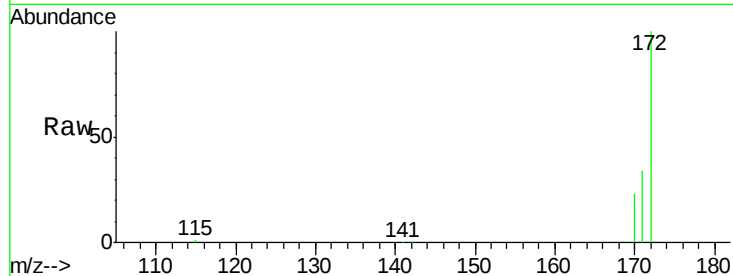




#14  
2-Fluorobiphenyl  
Concen: 3.87 ng  
RT: 12.85 min Scan# 1834  
Delta R.T. -0.01 min  
Lab File: BE090045.D  
Acq: 1 Jul 2015 17:46

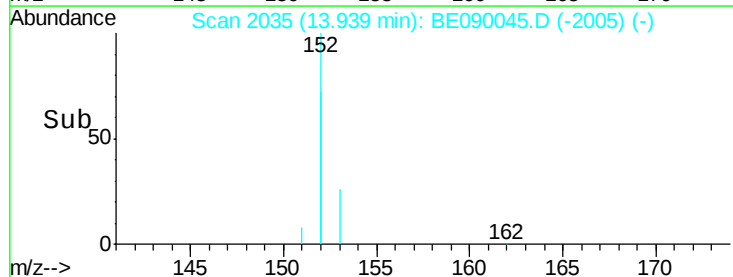
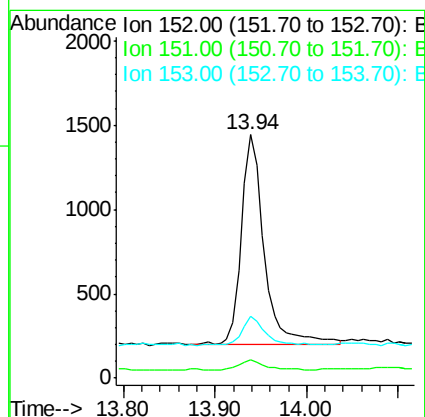
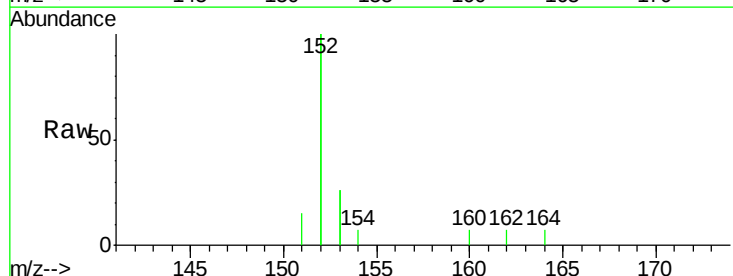
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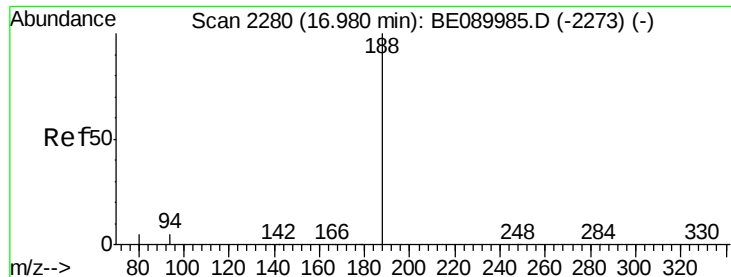
Tgt Ion:172 Resp: 35381  
Ion Ratio Lower Upper  
172 100  
171 34.4 27.8 41.6  
170 23.4 18.3 27.5



#15  
Acenaphthylene  
Concen: 0.04 ng  
RT: 13.94 min Scan# 2035  
Delta R.T. -0.01 min  
Lab File: BE090045.D  
Acq: 1 Jul 2015 17:46

Tgt Ion:152 Resp: 2176  
Ion Ratio Lower Upper  
152 100  
151 4.8 3.9 5.9  
153 14.9 10.4 15.6

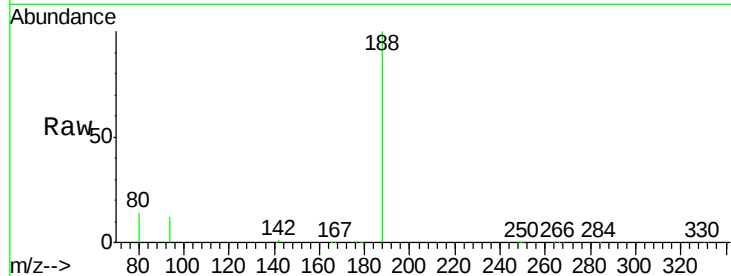




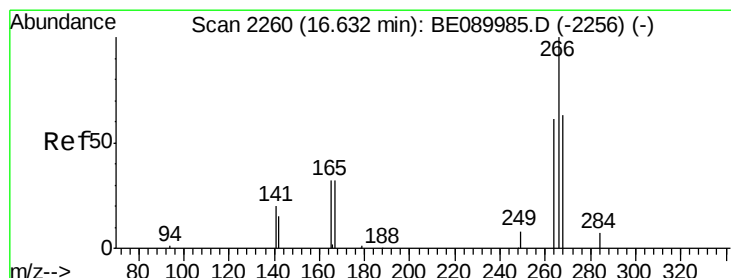
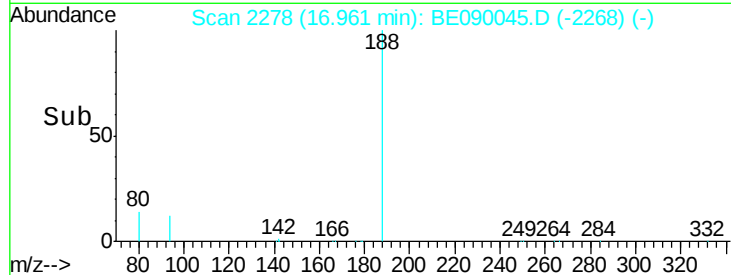
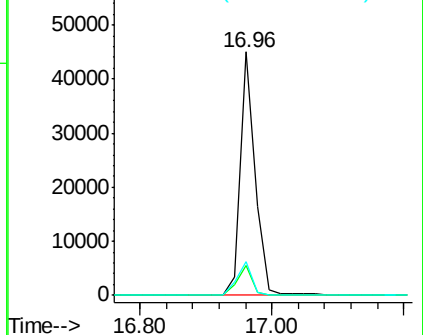
#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.96 min Scan# 2278  
Delta R.T. -0.02 min  
Lab File: BE090045.D  
Acq: 1 Jul 2015 17:46

Instrument :  
BNA\_E  
ClientSampleId :  
X1SB0510204-150625

Tgt Ion:188 Resp: 69730  
Ion Ratio Lower Upper  
188 100  
94 12.4 4.1 6.1#  
80 13.7 4.2 6.2#

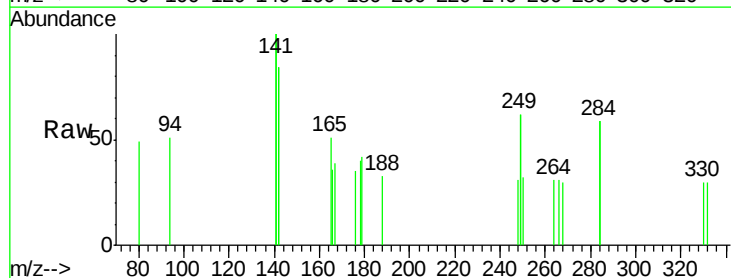


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

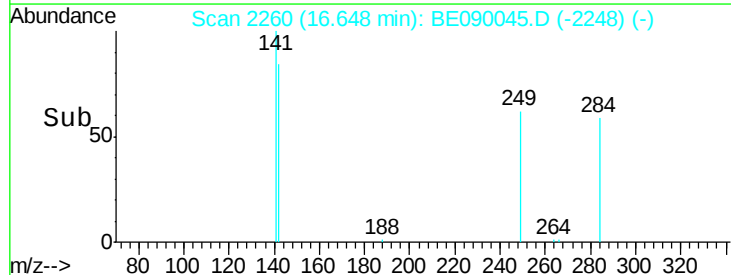
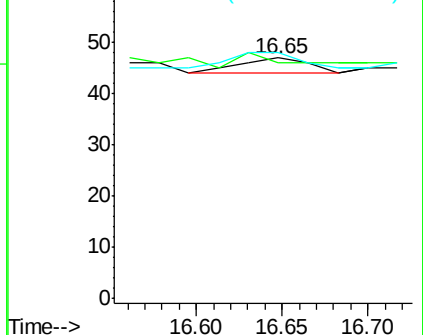


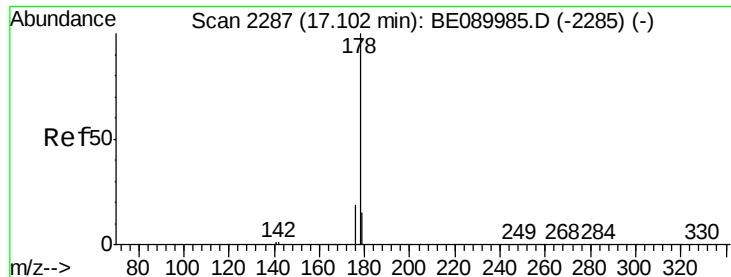
#21  
Pentachlorophenol  
Concen: 0.26 ng  
RT: 16.65 min Scan# 2260  
Delta R.T. 0.02 min  
Lab File: BE090045.D  
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Tgt Ion:266 Resp: 8  
Ion Ratio Lower Upper  
266 100  
268 97.9 51.8 77.8#  
264 102.1 50.2 75.2#



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E





#23

Anthracene

Concen: 0.02 ng

RT: 17.10 min Scan# 2286

Delta R.T. -0.00 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

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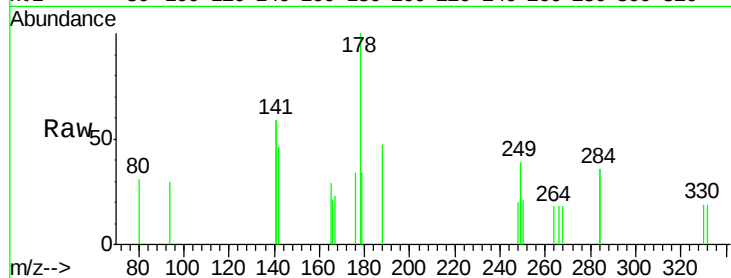
Tgt Ion:178 Resp: 379

Ion Ratio Lower Upper

178 100

176 17.7 14.7 22.1

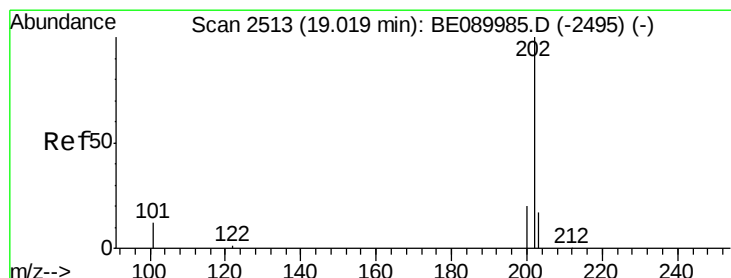
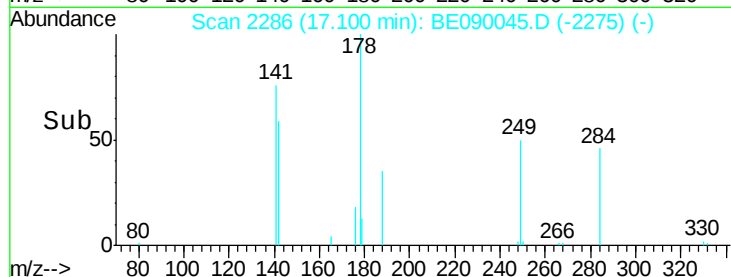
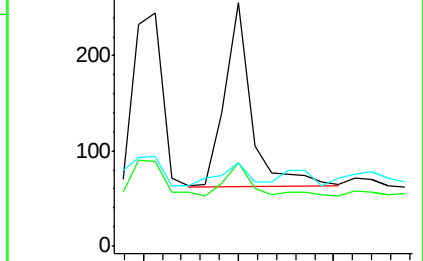
179 14.2 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Fluoranthene

Concen: 0.07 ng

RT: 19.01 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

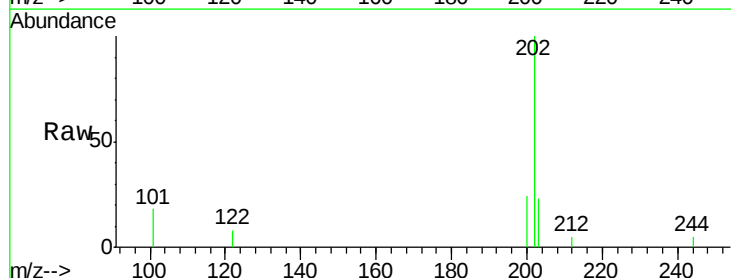
Tgt Ion:202 Resp: 1315

Ion Ratio Lower Upper

202 100

101 14.9 10.6 15.8

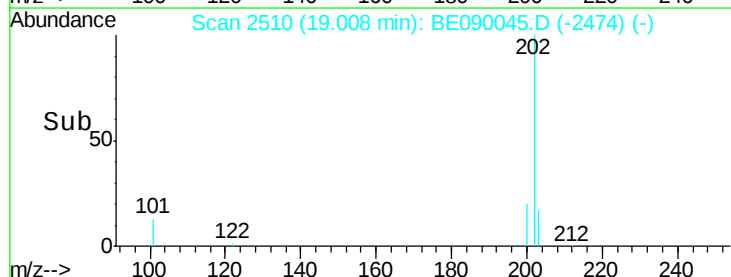
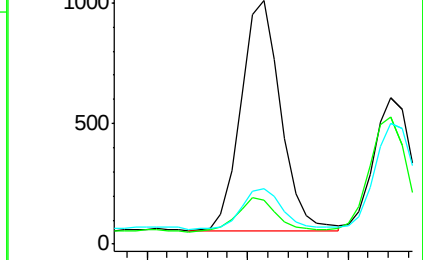
203 17.6 13.8 20.6

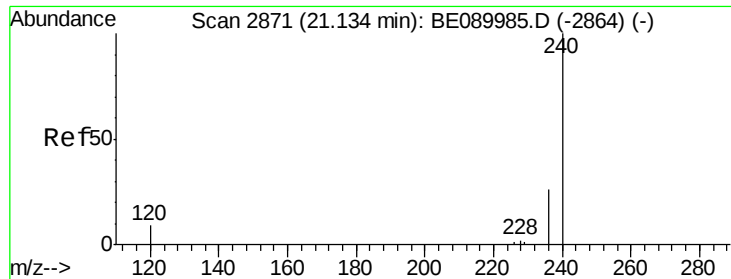


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

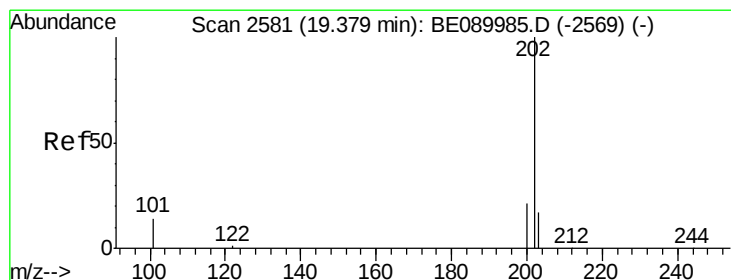
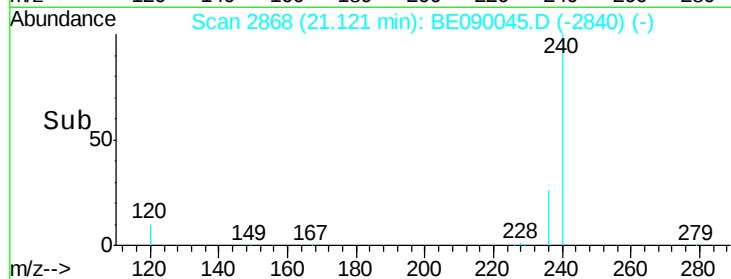
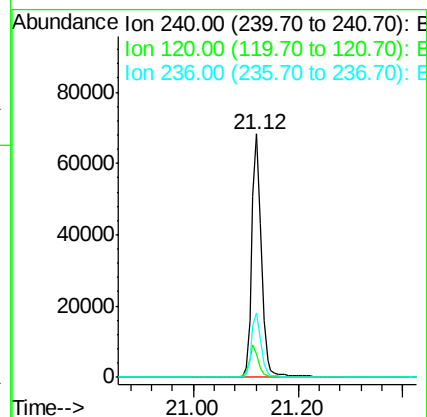
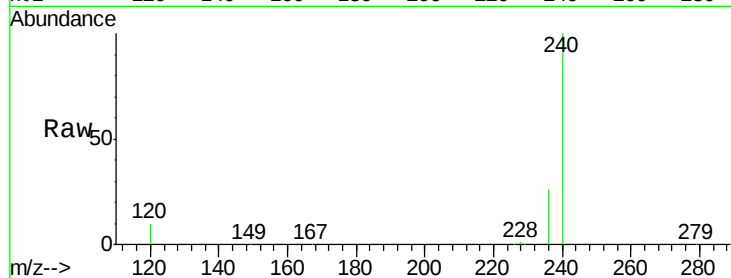




#25  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.12 min Scan# 2868  
Delta R.T. -0.01 min  
Lab File: BE090045.D  
Acq: 1 Jul 2015 17:46

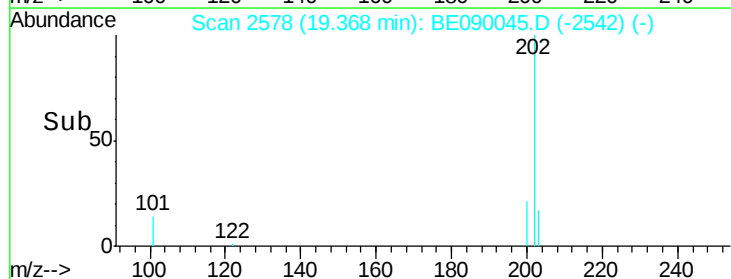
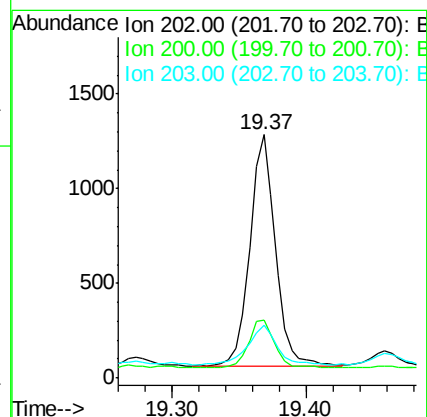
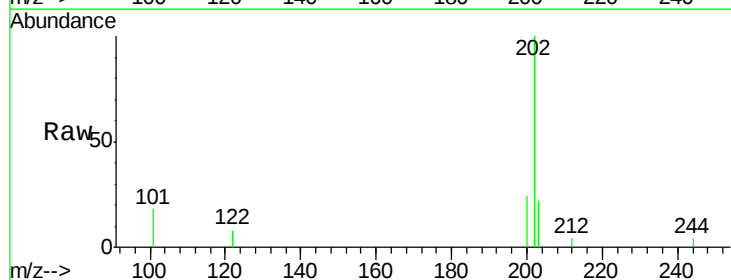
Instrument :  
BNA\_E  
ClientSampleId :  
X1SB0510204-150625

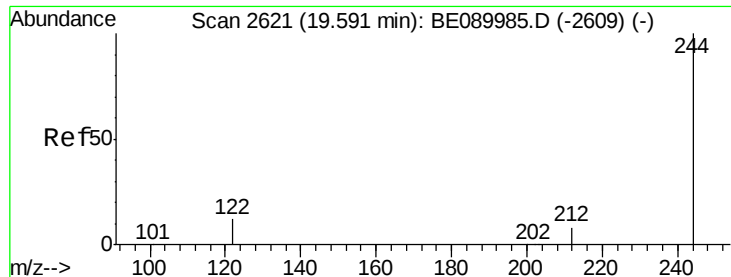
Tgt Ion: 240 Resp: 85842  
Ion Ratio Lower Upper  
240 100  
120 9.8 6.9 10.3  
236 26.4 20.8 31.2



#26  
Pyrene  
Concen: 0.08 ng  
RT: 19.37 min Scan# 2578  
Delta R.T. -0.01 min  
Lab File: BE090045.D  
Acq: 1 Jul 2015 17:46

Tgt Ion: 202 Resp: 1643  
Ion Ratio Lower Upper  
202 100  
200 21.2 16.8 25.2  
203 18.7 13.9 20.9

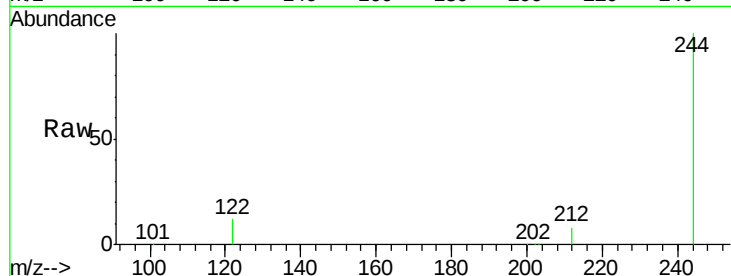




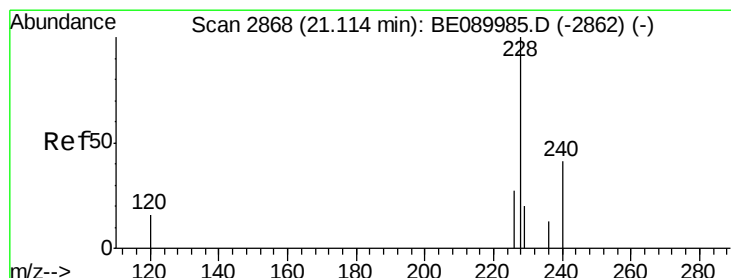
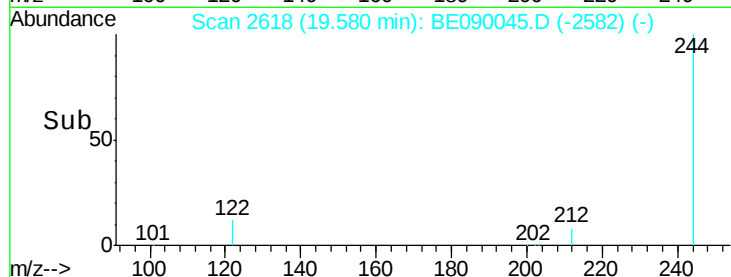
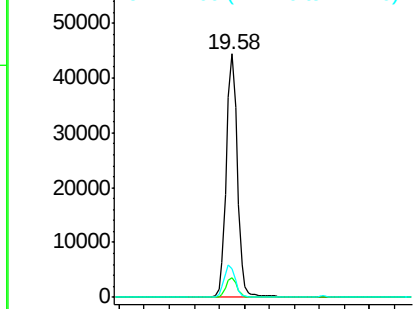
#27  
 Terphenyl-d14  
 Concen: 3.80 ng  
 RT: 19.58 min Scan# 2618  
 Delta R.T. -0.01 min  
 Lab File: BE090045.D  
 Acq: 1 Jul 2015 17:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 X1SB0510204-150625

Tgt Ion: 244 Resp: 54355  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 6.6 9.8  
 122 11.8 9.8 14.8

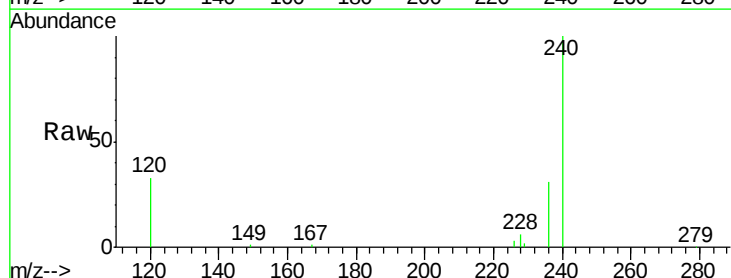


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

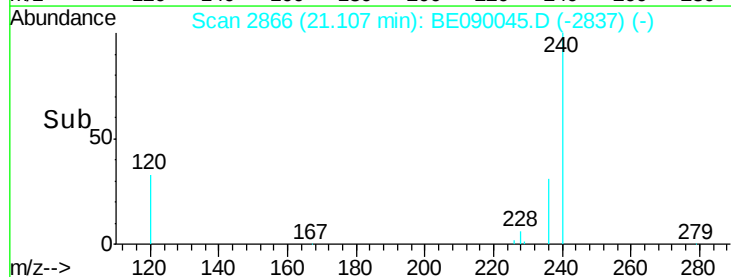
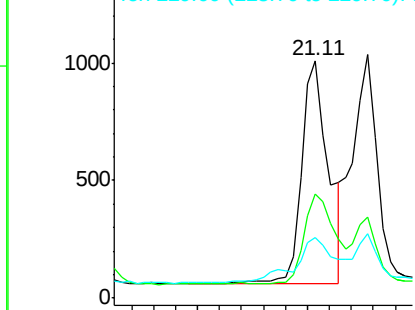


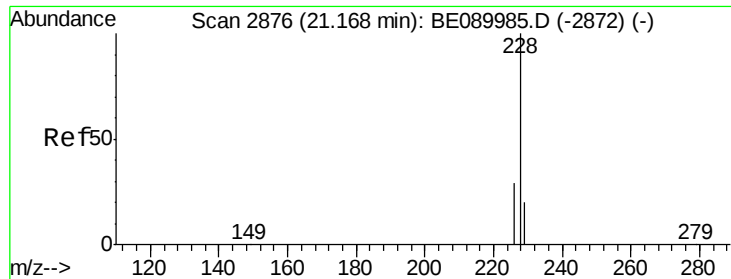
#28  
 Benzo(a)anthracene  
 Concen: 0.08 ng  
 RT: 21.11 min Scan# 2866  
 Delta R.T. -0.01 min  
 Lab File: BE090045.D  
 Acq: 1 Jul 2015 17:46

Tgt Ion: 228 Resp: 1628  
 Ion Ratio Lower Upper  
 228 100  
 226 43.9 21.8 32.6#  
 229 25.5 15.8 23.6#



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





#29

Chrysene

Concen: 0.07 ng

RT: 21.15 min Scan# 2873

Delta R.T. -0.01 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

X1SB0510204-150625

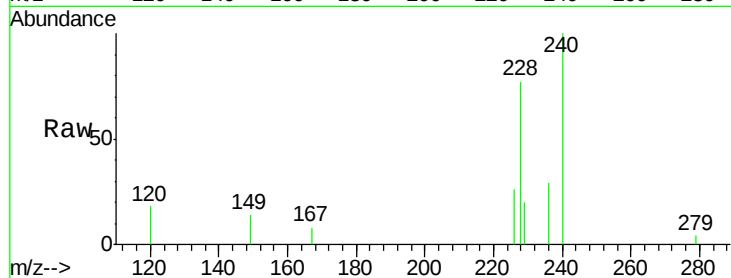
Tgt Ion:228 Resp: 1544

Ion Ratio Lower Upper

228 100

226 33.1 23.4 35.0

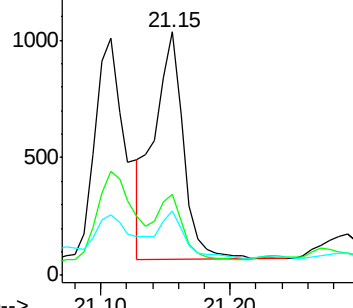
229 26.5 16.2 24.2#



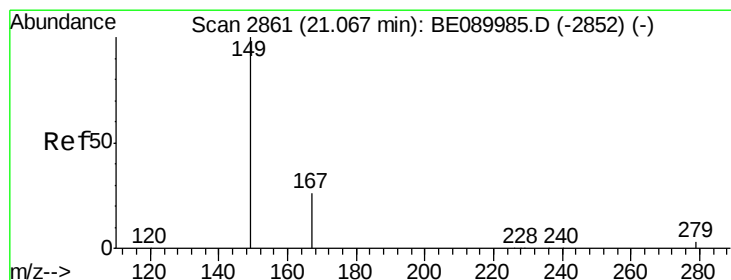
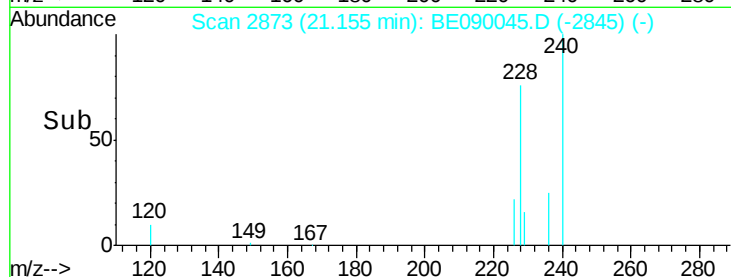
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.49 ng

RT: 21.05 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

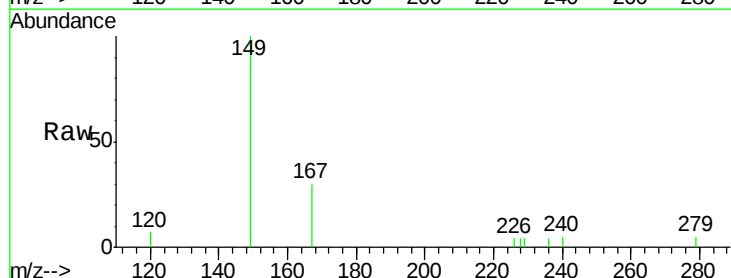
Tgt Ion:149 Resp: 1890

Ion Ratio Lower Upper

149 100

167 25.5 20.3 30.5

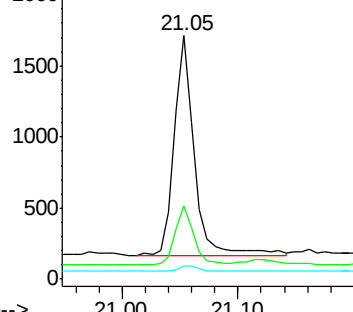
279 2.8 2.6 3.8



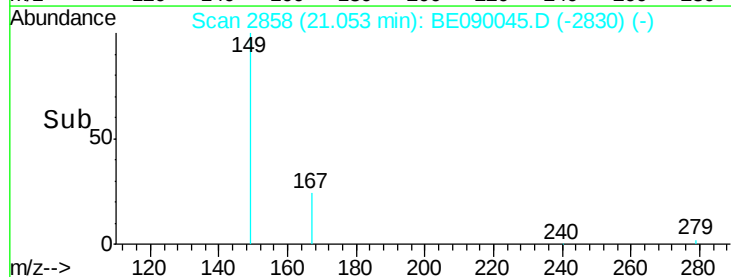
Abundance Ion 149.00 (148.70 to 149.70): E

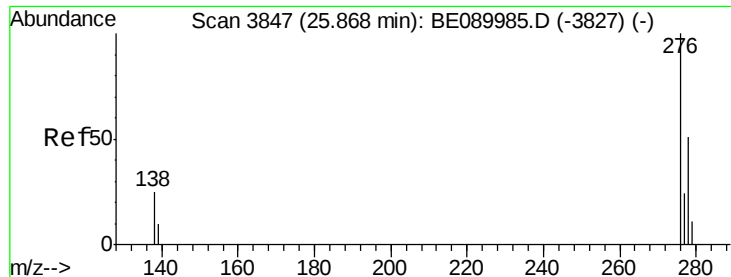
Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.09 ng

RT: 25.83 min Scan# 3838

Delta R.T. -0.04 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

X1SB0510204-150625

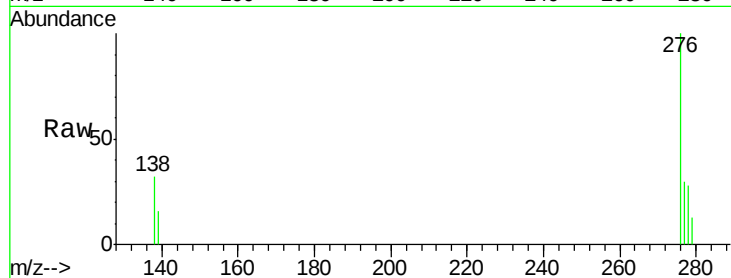
Tgt Ion:276 Resp: 1835

Ion Ratio Lower Upper

276 100

138 27.4 21.3 31.9

277 24.6 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

25.83

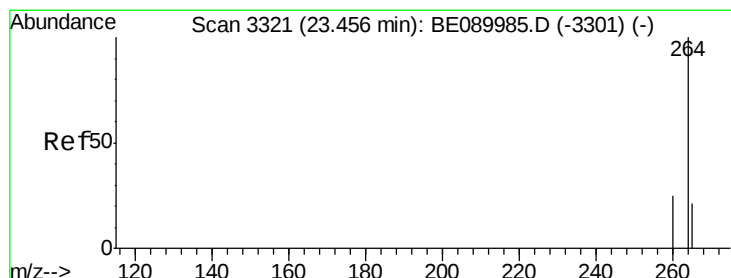
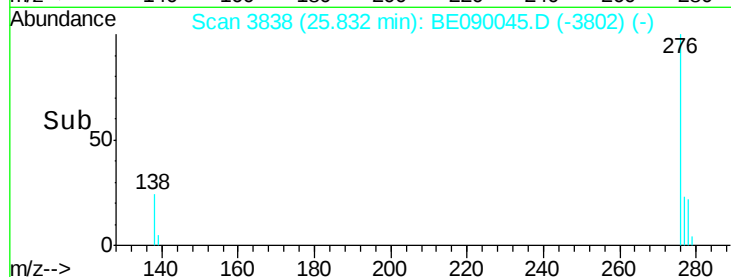
600

400

200

0

Time--> 25.70 25.80 25.90



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.44 min Scan# 3316

Delta R.T. -0.02 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

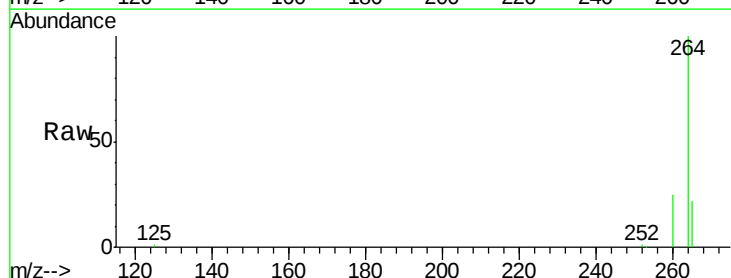
Tgt Ion:264 Resp: 79998

Ion Ratio Lower Upper

264 100

260 24.9 20.2 30.2

265 22.0 17.1 25.7



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

23.44

50000

40000

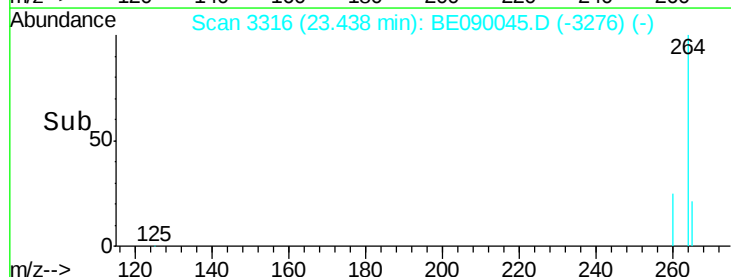
30000

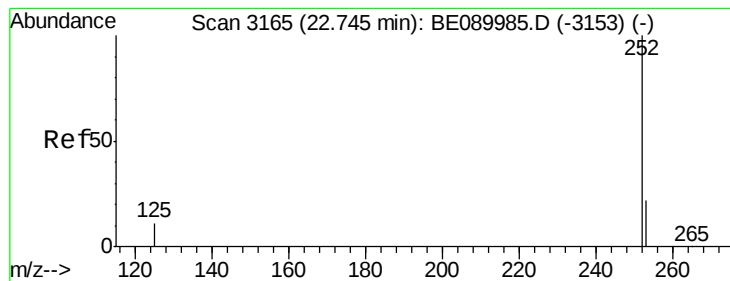
20000

10000

0

Time--> 23.40 23.60





#33

Benzo(b)fluoranthene

Concen: 0.16 ng

RT: 22.73 min Scan# 3161

Delta R.T. -0.01 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

X1SB0510204-150625

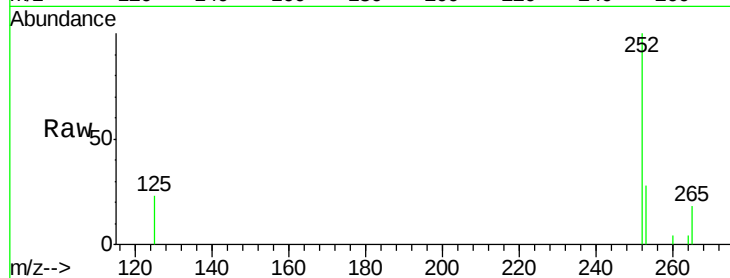
Tgt Ion:252 Resp: 2885

Ion Ratio Lower Upper

252 100

253 28.0 17.8 26.8#

125 22.7 9.0 13.4#

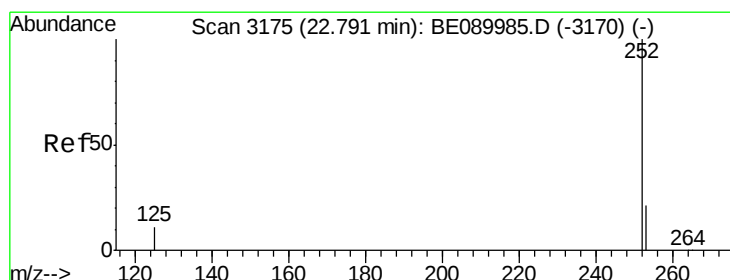
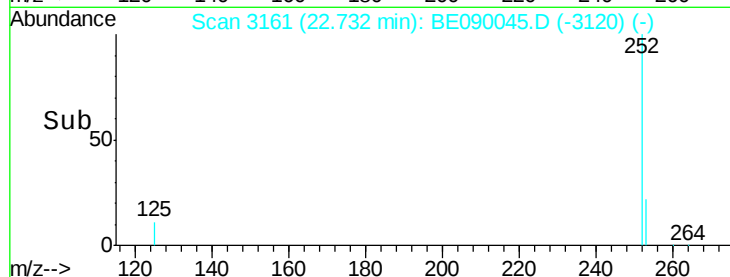
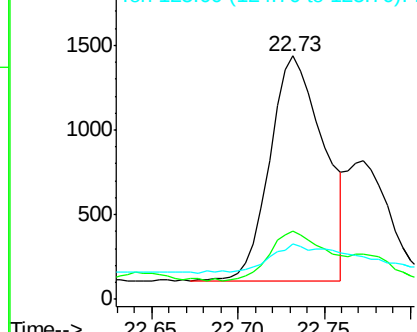


Abundance

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



#34

Benzo(k)fluoranthene

Concen: 0.15 ng

RT: 22.73 min Scan# 3161

Delta R.T. -0.06 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

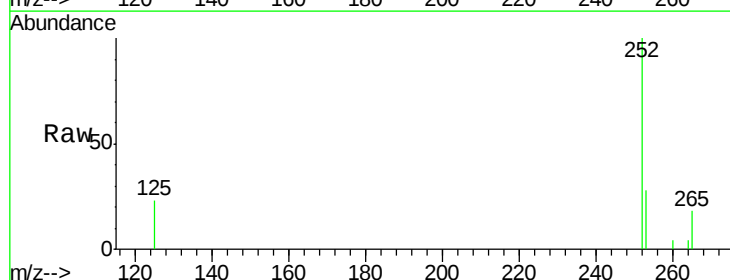
Tgt Ion:252 Resp: 2885

Ion Ratio Lower Upper

252 100

253 28.0 17.5 26.3#

125 22.7 9.5 14.3#

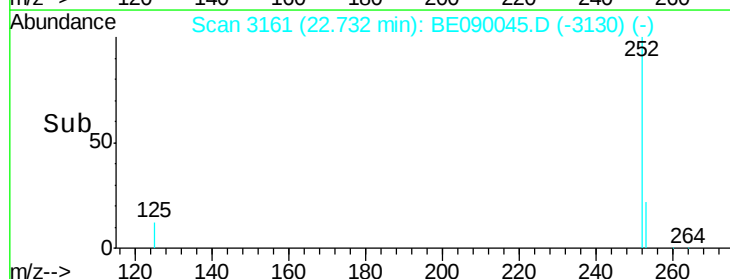
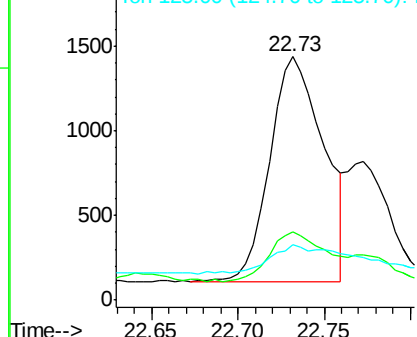


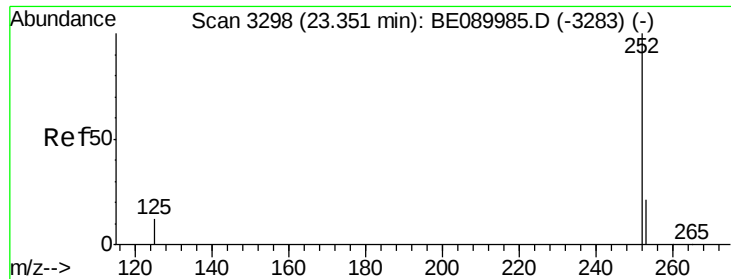
Abundance

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





#35

Benzo(a)pyrene

Concen: 0.12 ng

RT: 23.33 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

X1SB0510204-150625

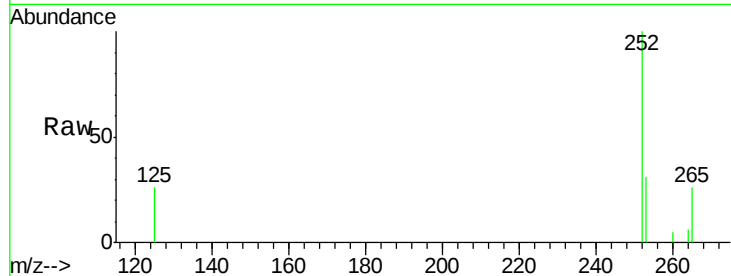
Tgt Ion: 252 Resp: 1949

Ion Ratio Lower Upper

252 100

253 31.1 17.4 26.2#

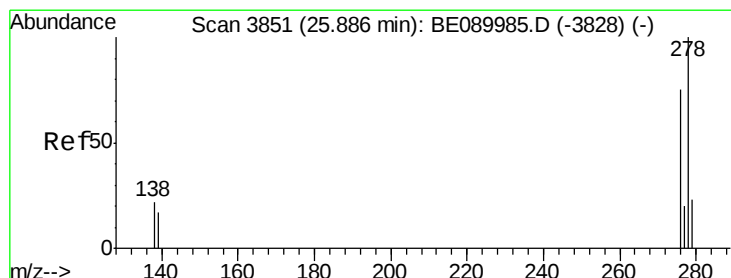
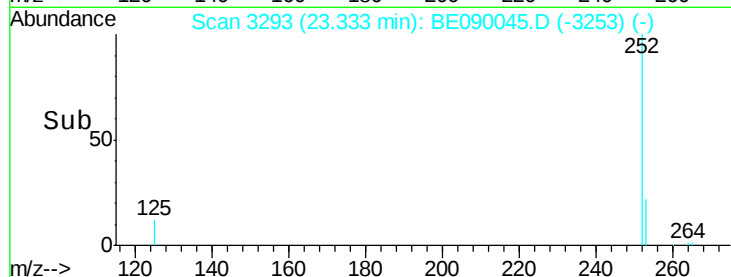
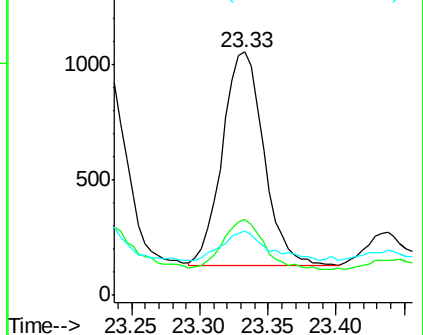
125 26.3 10.5 15.7#



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



#36

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 25.85 min Scan# 3842

Delta R.T. -0.04 min

Lab File: BE090045.D

Acq: 1 Jul 2015 17:46

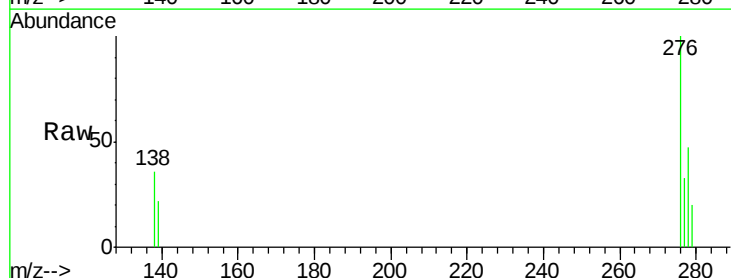
Tgt Ion: 278 Resp: 640

Ion Ratio Lower Upper

278 100

139 46.2 14.4 21.6#

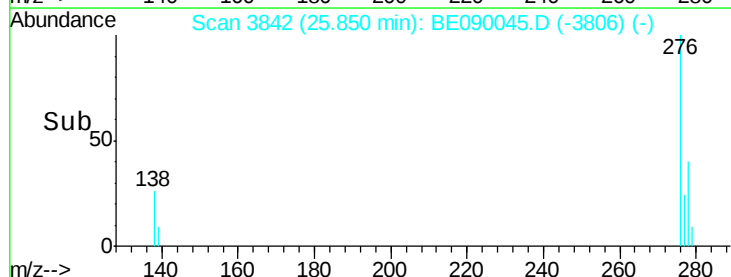
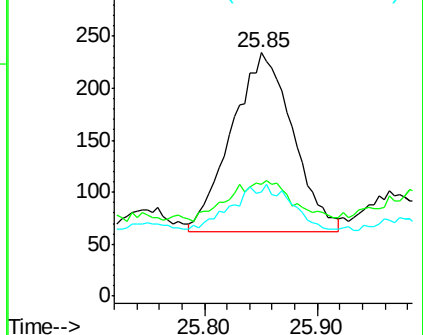
279 42.7 19.0 28.6#

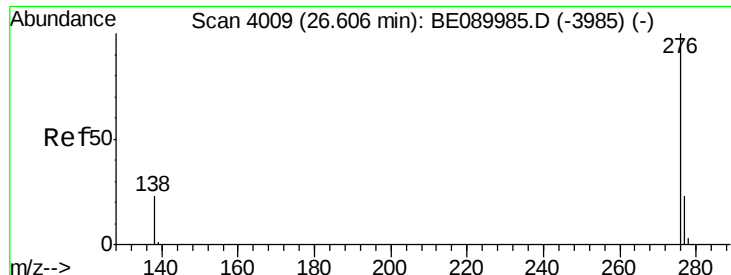


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(g,h,i)perylene

Concen: 0.14 ng

RT: 26.57 min Scan# 4001

Delta R.T. -0.03 min

Lab File: BE090045.D

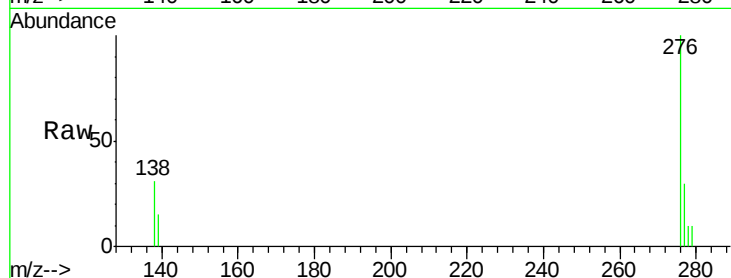
Acq: 1 Jul 2015 17:46

Instrument :

BNA\_E

ClientSampleId :

X1SB0510204-150625



Tgt Ion: 276 Resp: 2305

Ion Ratio Lower Upper

276 100

277 29.8 18.8 28.2#

138 31.5 18.6 27.8#

