

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE080416\  
 Data File : BE092185.D  
 Acq On : 4 Aug 2016 16:40  
 Operator : UM/SJ  
 Sample : H4205-06RE  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-39-7.0-13.0

Quant Time: Aug 05 03:13:03 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-PAH-BE080216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 02 16:59:37 2016  
 Response via : Initial Calibration

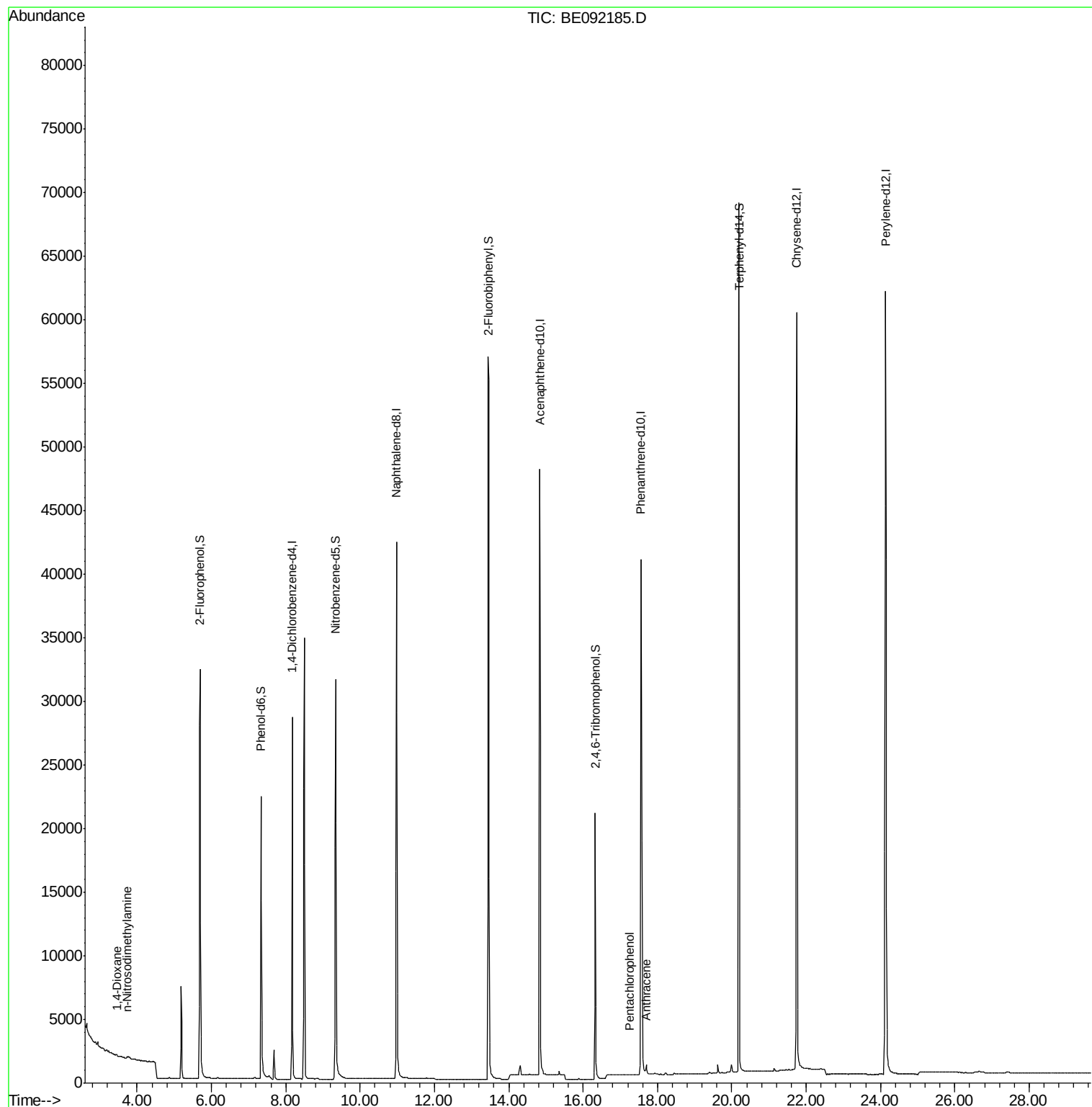
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.17  | 152  | 14442    | 5.00      | ng    | 0.00     |
| 6) Naphthalene-d8           | 10.98 | 136  | 63380    | 5.00      | ng    | -0.01    |
| 10) Acenaphthene-d10        | 14.83 | 164  | 32470    | 5.00      | ng    | -0.02    |
| 16) Phenanthrene-d10        | 17.56 | 188  | 68004    | 5.00      | ng    | -0.02    |
| 22) Chrysene-d12            | 21.75 | 240  | 82214    | 5.00      | ng    | 0.00     |
| 28) Perylene-d12            | 24.14 | 264  | 89511    | 5.00      | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 4) 2-Fluorophenol           | 5.70  | 112  | 28972    | 7.81      | ng    | 0.00     |
| 5) Phenol-d6                | 7.34  | 99   | 24733    | 5.01      | ng    | -0.01    |
| 7) Nitrobenzene-d5          | 9.34  | 82   | 31009    | 6.20      | ng    | -0.01    |
| 11) 2,4,6-Tribromophenol    | 16.32 | 330  | 15274    | 14.49     | ng    | -0.01    |
| 12) 2-Fluorobiphenyl        | 13.46 | 172  | 65431    | 6.36      | ng    | 0.00     |
| 24) Terphenyl-d14           | 20.19 | 244  | 81872    | 6.93      | ng    | -0.02    |
| Target Compounds            |       |      |          |           |       |          |
| 2) 1,4-Dioxane              | 3.44  | 88   | 42       | 0.02      | ng    | # 51     |
| 3) n-Nitrosodimethylamine   | 3.73  | 42   | 106      | 0.13      | ng    | # 1      |
| 8) Naphthalene              | 11.03 | 128  | 151      | Below Cal |       | # 21     |
| 18) Pentachlorophenol       | 17.26 | 266  | 28       | 0.22      | ng    | # 80     |
| 19) Phenanthrene            | 17.60 | 178  | 495      | Below Cal |       | # 87     |
| 20) Anthracene              | 17.70 | 178  | 1124     | 0.06      | ng    | 99       |
| 30) Benzo(k)fluoranthene    | 23.46 | 252  | 49       | Below Cal |       | # 1      |

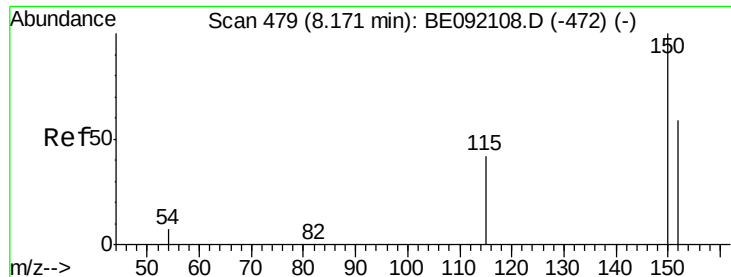
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

Instrument :

BNA\_E

ClientSampleId :

GW-39-7.0-13.0

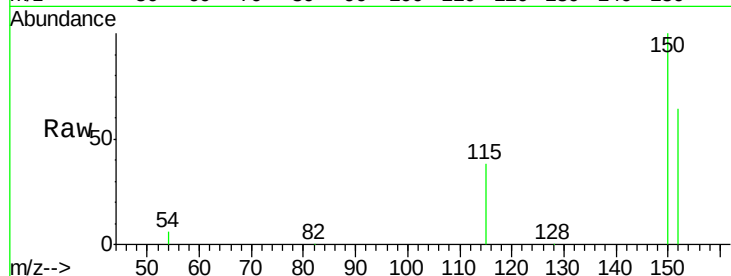
Tgt Ion:152 Resp: 14442

Ion Ratio Lower Upper

152 100

150 157.4 106.0 159.0

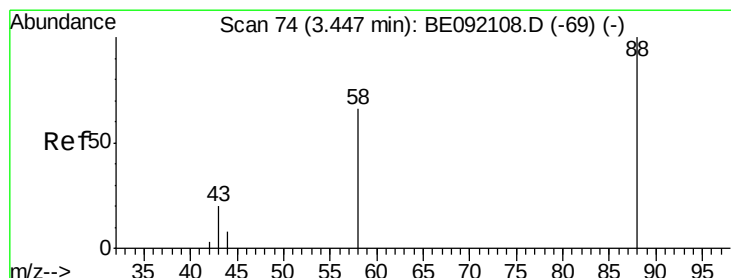
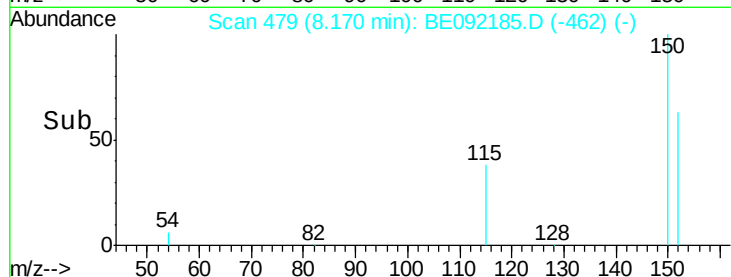
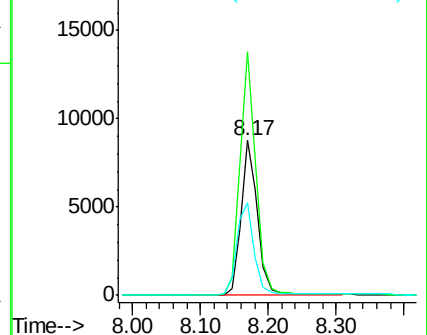
115 59.9 36.9 55.3#



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

1,4-Dioxane

Concen: 0.02 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

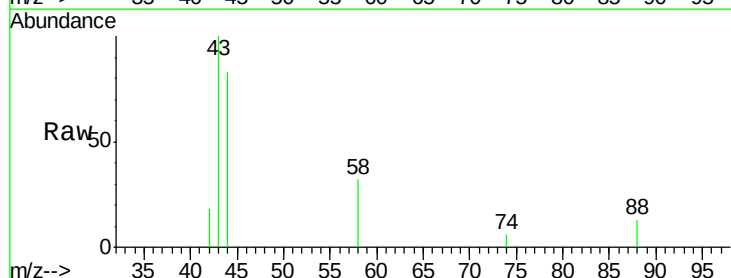
Tgt Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

58 116.7 62.1 93.1#

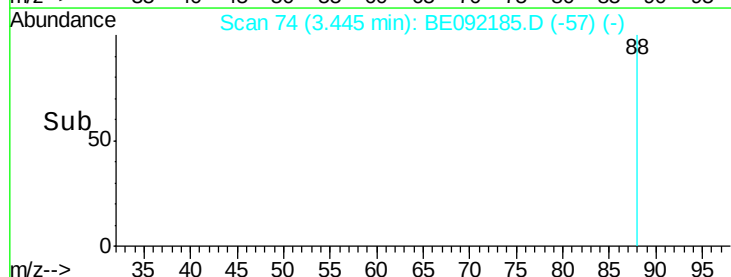
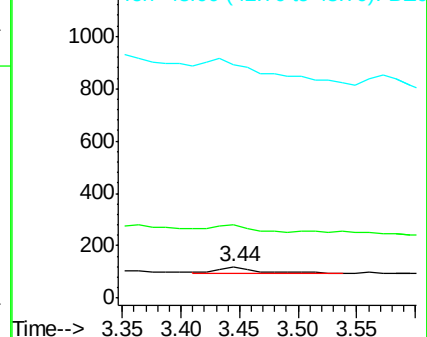
43 0.0 27.2 40.8#

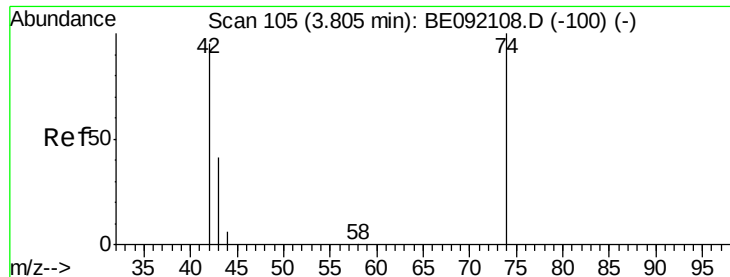


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.13 ng

RT: 3.73 min Scan# 99

Delta R.T. -0.07 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

Instrument :

BNA\_E

ClientSampleId :

GW-39-7.0-13.0

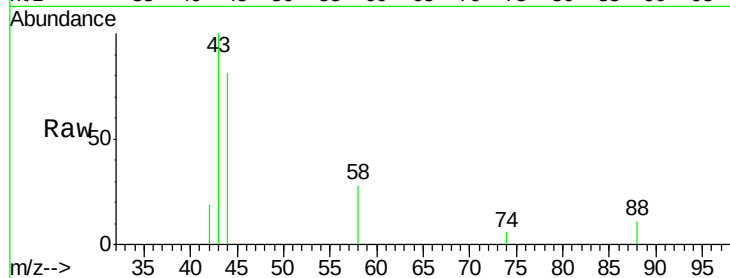
Tgt Ion: 42 Resp: 106

Ion Ratio Lower Upper

42 100

74 0.0 82.8 124.2#

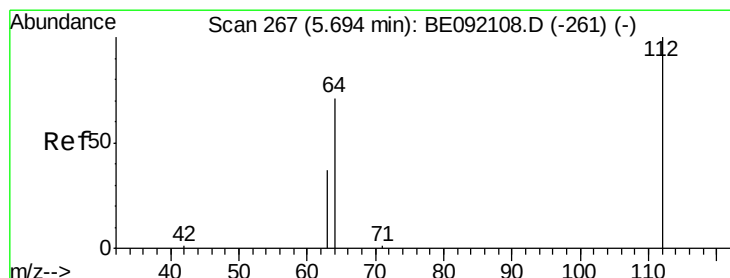
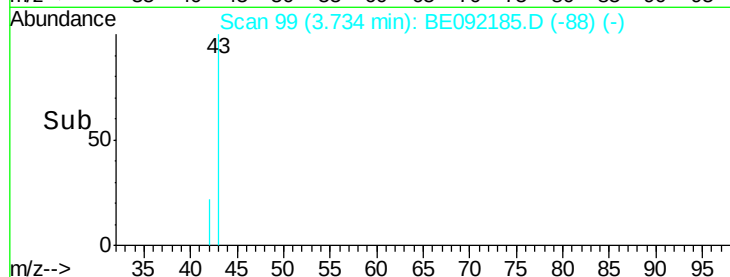
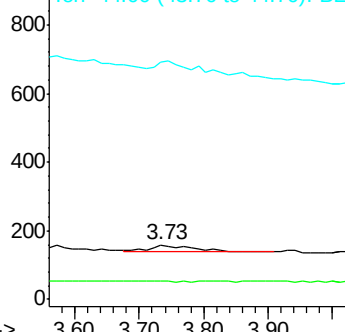
44 154.7 9.0 13.4#



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: 7.81 ng

RT: 5.70 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

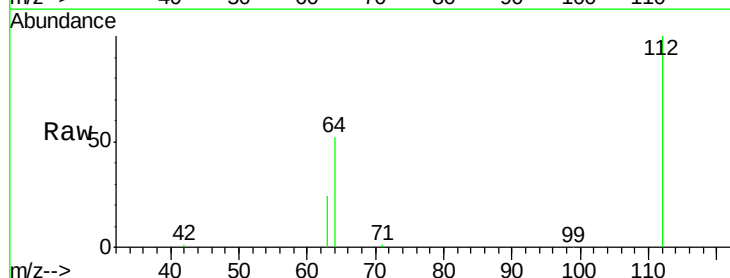
Tgt Ion: 112 Resp: 28972

Ion Ratio Lower Upper

112 100

64 67.1 55.9 83.9

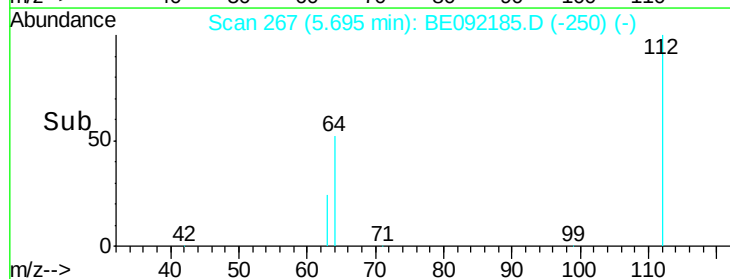
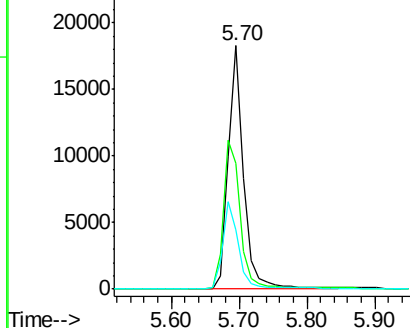
63 36.5 31.1 46.7

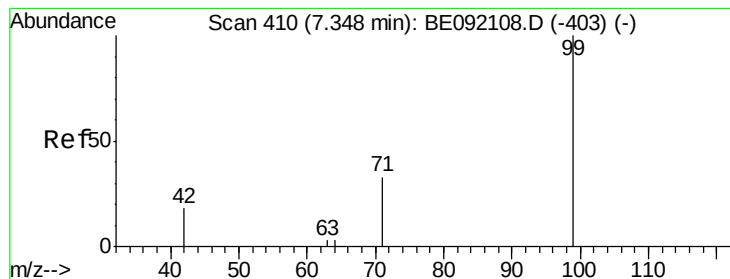


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 5.01 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

Instrument :

BNA\_E

ClientSampleId :

GW-39-7.0-13.0

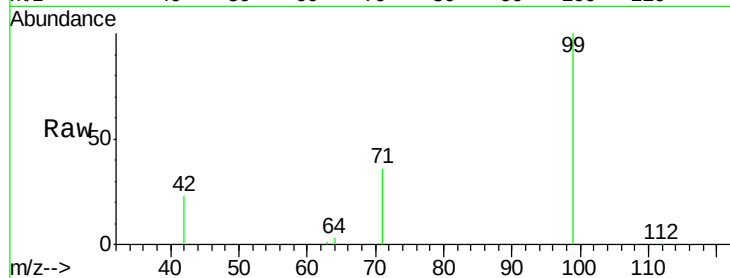
Tgt Ion: 99 Resp: 24733

Ion Ratio Lower Upper

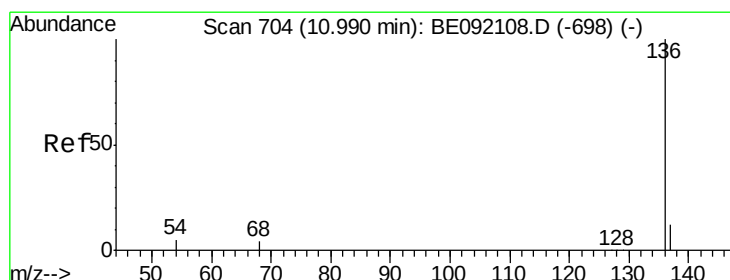
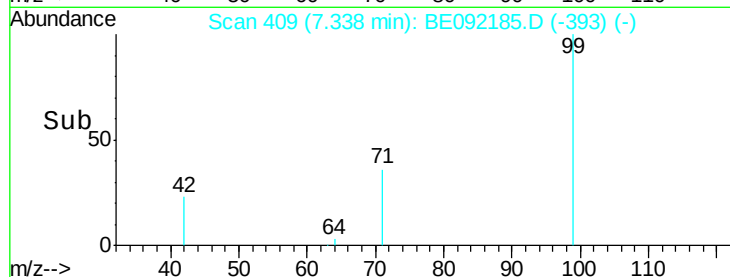
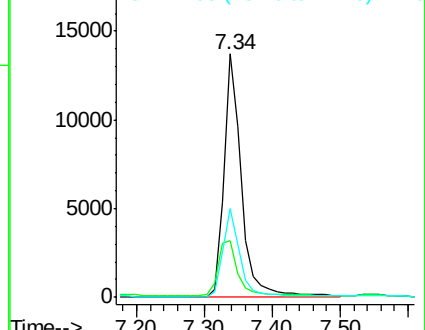
99 100

42 25.1 22.4 33.6

71 35.5 28.9 43.3



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: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

Tgt Ion: 136 Resp: 63380

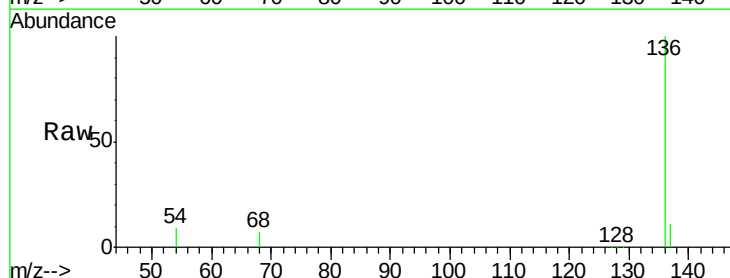
Ion Ratio Lower Upper

136 100

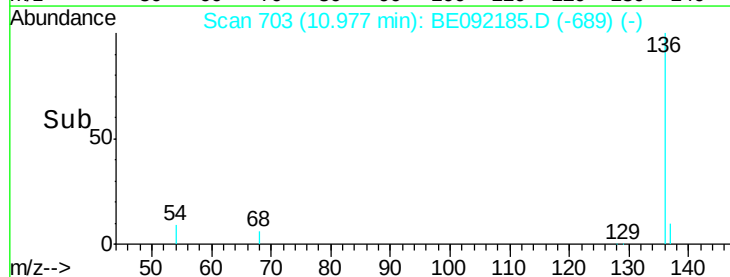
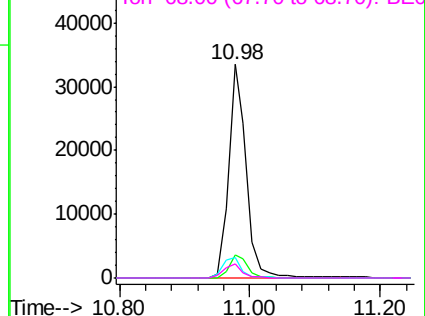
137 10.6 9.1 13.7

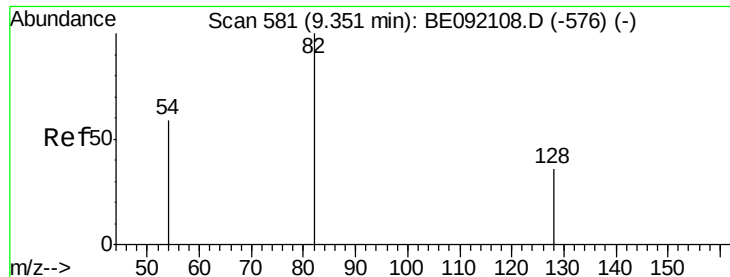
54 9.4 2.7 4.1#

68 6.7 2.2 3.4#



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: 6.20 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

Instrument :

BNA\_E

ClientSampleId :

GW-39-7.0-13.0

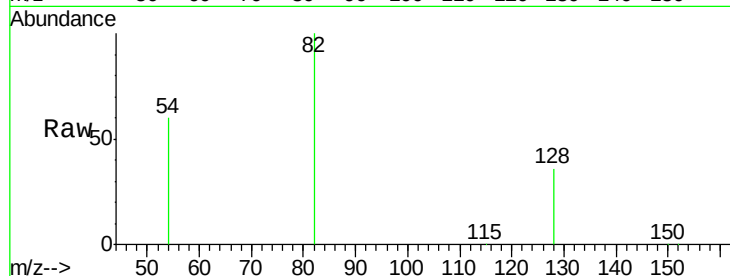
Tgt Ion: 82 Resp: 31009

Ion Ratio Lower Upper

82 100

128 36.0 33.0 49.4

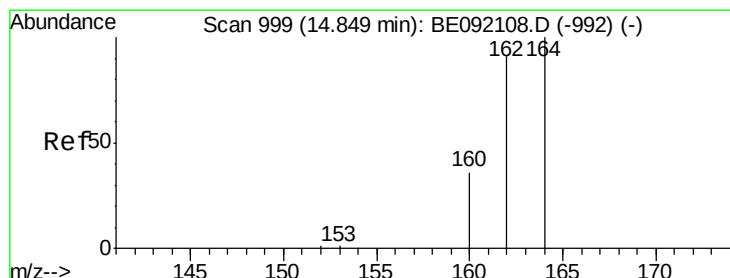
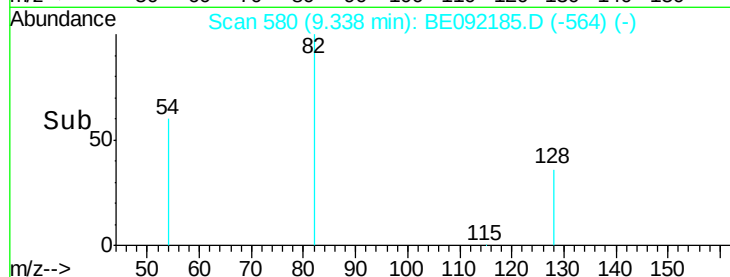
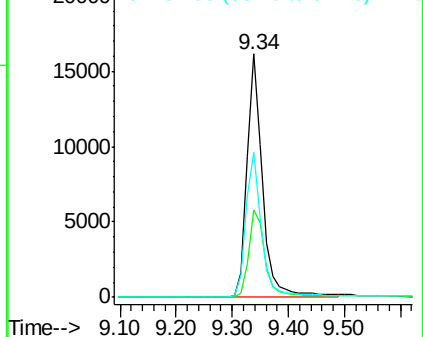
54 59.7 42.6 63.8



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



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

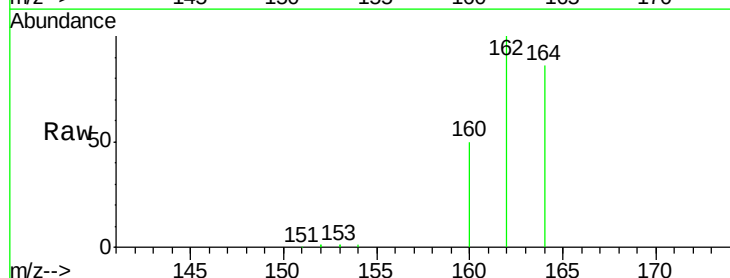
Tgt Ion: 164 Resp: 32470

Ion Ratio Lower Upper

164 100

162 116.8 69.5 104.3#

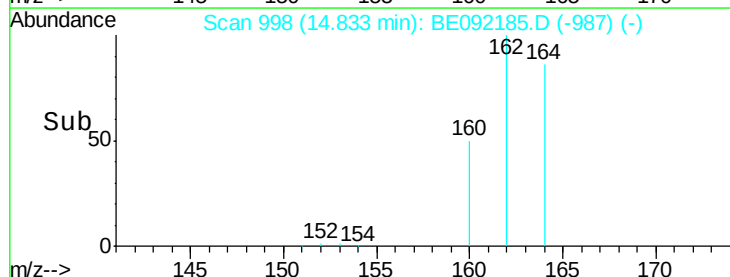
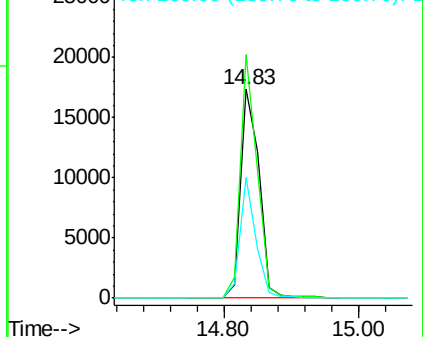
160 58.1 27.6 41.4#

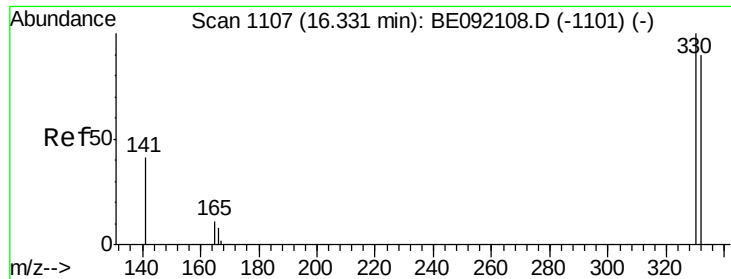


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

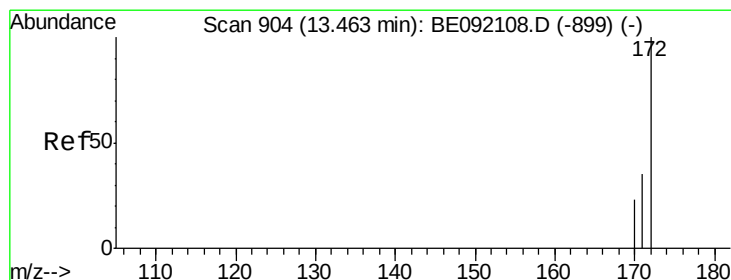
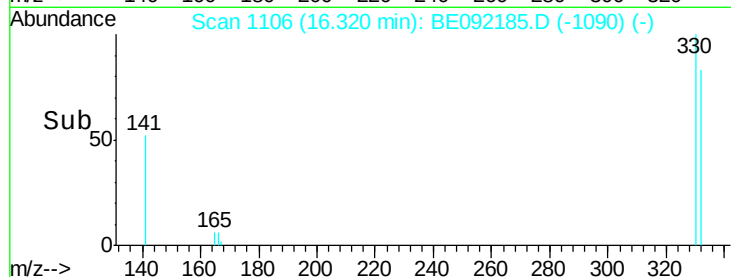
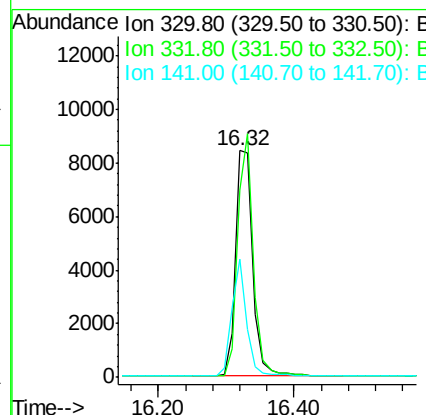
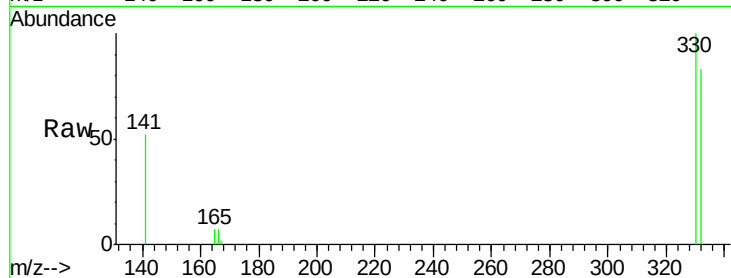




#11  
 2,4,6-Tribromophenol  
 Concen: 14.49 ng  
 RT: 16.32 min Scan# 1106  
 Delta R.T. -0.01 min  
 Lab File: BE092185.D  
 Acq: 4 Aug 2016 16:40

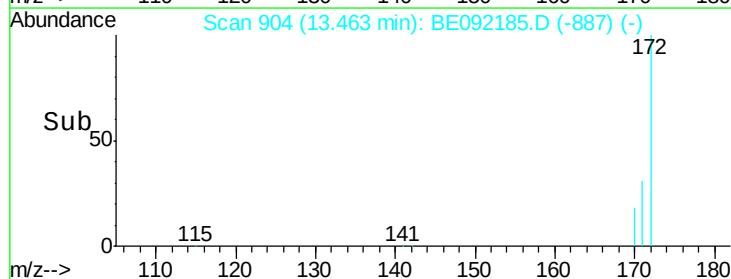
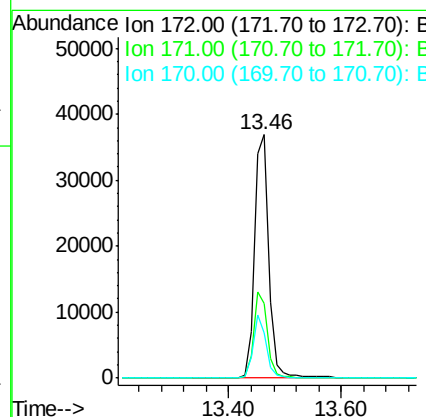
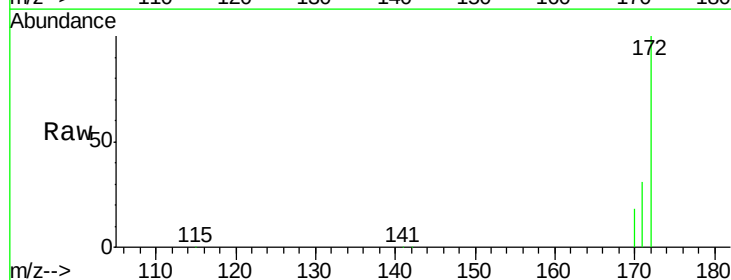
Instrument :  
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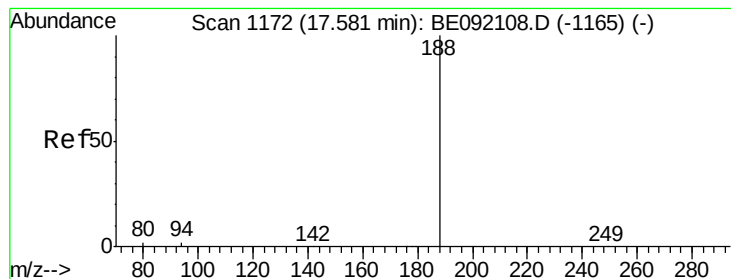
Tgt Ion: 330 Resp: 15274  
 Ion Ratio Lower Upper  
 330 100  
 332 97.2 74.2 111.4  
 141 44.0 139.8 209.8#



#12  
 2-Fluorobiphenyl  
 Concen: 6.36 ng  
 RT: 13.46 min Scan# 904  
 Delta R.T. -0.00 min  
 Lab File: BE092185.D  
 Acq: 4 Aug 2016 16:40

Tgt Ion: 172 Resp: 65431  
 Ion Ratio Lower Upper  
 172 100  
 171 30.6 30.3 45.5  
 170 18.4 21.6 32.4#





#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

Instrument :

BNA\_E

ClientSampleId :

GW-39-7.0-13.0

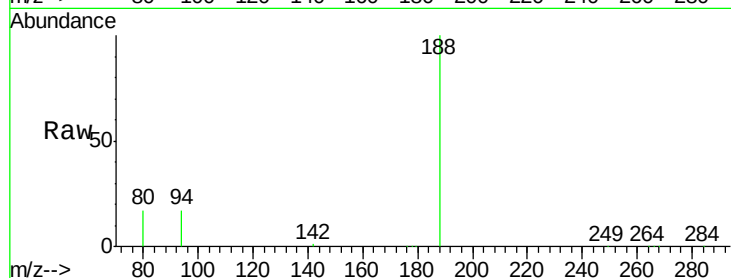
Tgt Ion:188 Resp: 68004

Ion Ratio Lower Upper

188 100

94 16.7 3.9 5.9#

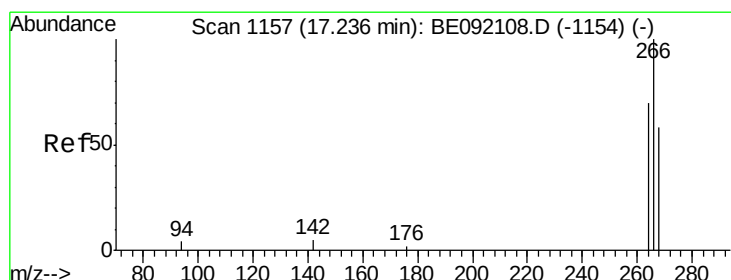
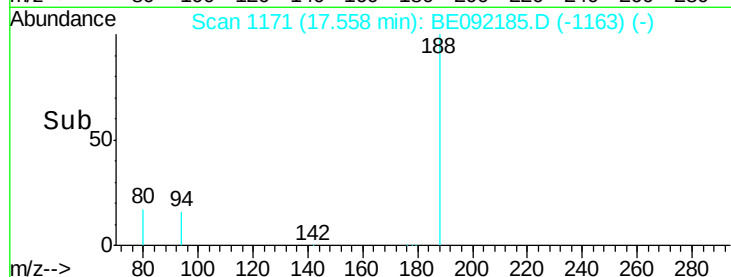
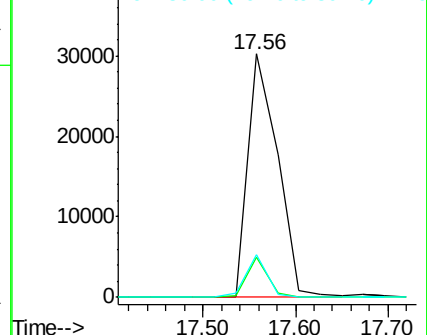
80 17.4 3.4 5.0#



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



#18

Pentachlorophenol

Concen: 0.22 ng

RT: 17.26 min Scan# 1158

Delta R.T. 0.02 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

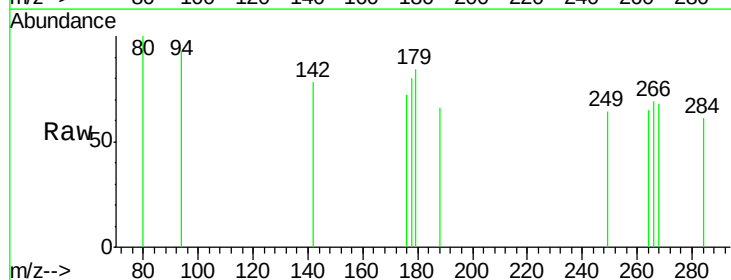
Tgt Ion:266 Resp: 28

Ion Ratio Lower Upper

266 100

268 98.0 62.7 94.1#

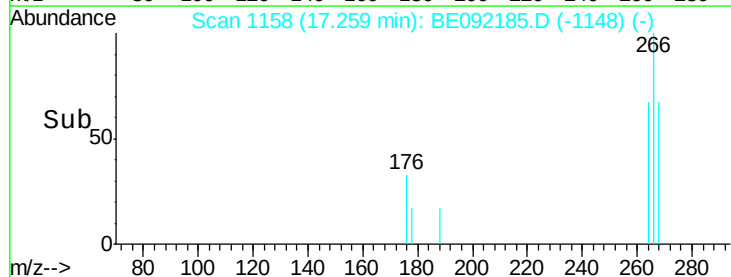
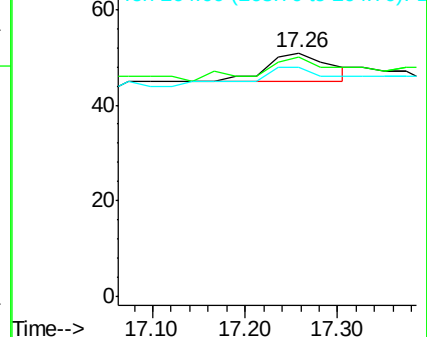
264 94.1 63.5 95.3



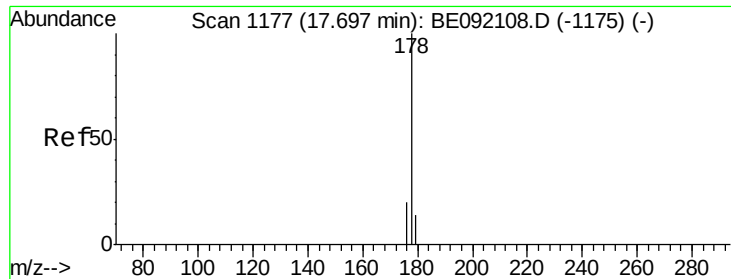
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E







#20

Anthracene

Concen: 0.06 ng

RT: 17.70 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

Instrument :

BNA\_E

ClientSampleId :

GW-39-7.0-13.0

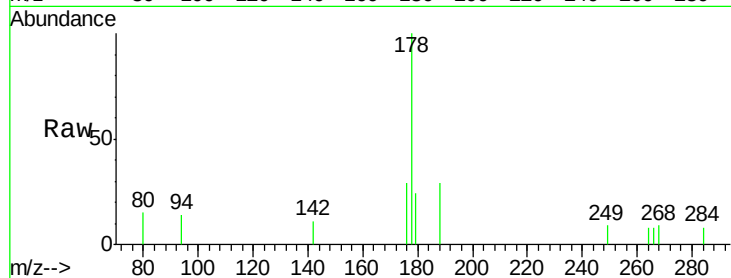
Tgt Ion:178 Resp: 1124

Ion Ratio Lower Upper

178 100

176 18.8 15.2 22.8

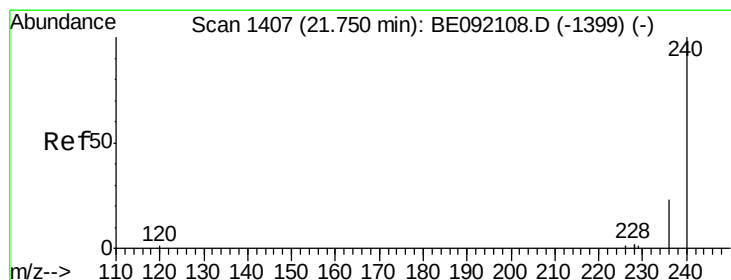
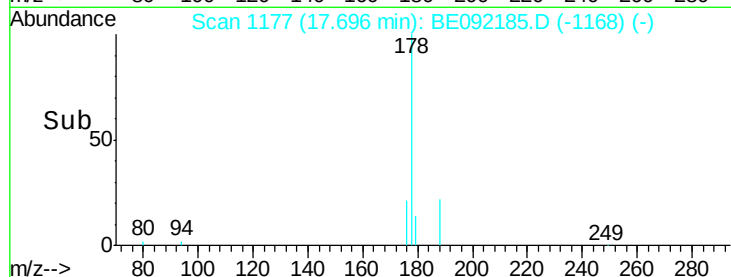
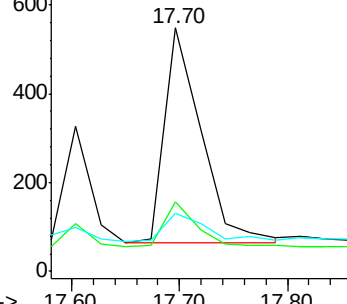
179 15.8 12.2 18.4



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



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1407

Delta R.T. -0.00 min

Lab File: BE092185.D

Acq: 4 Aug 2016 16:40

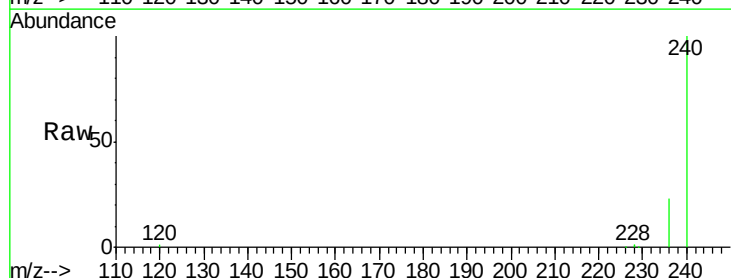
Tgt Ion:240 Resp: 82214

Ion Ratio Lower Upper

240 100

120 1.4 0.6 1.0#

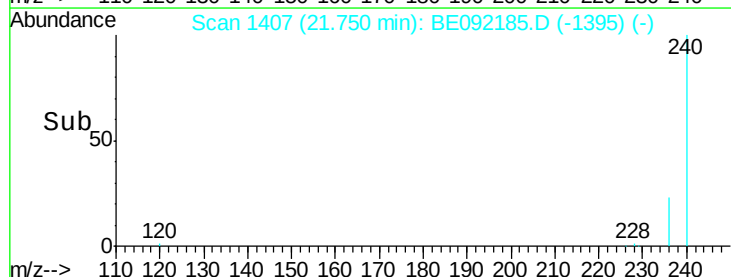
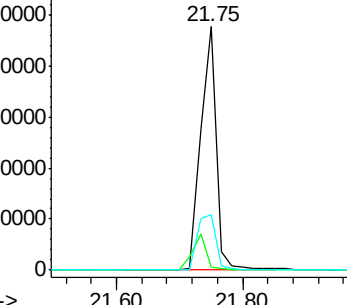
236 23.0 18.2 27.4

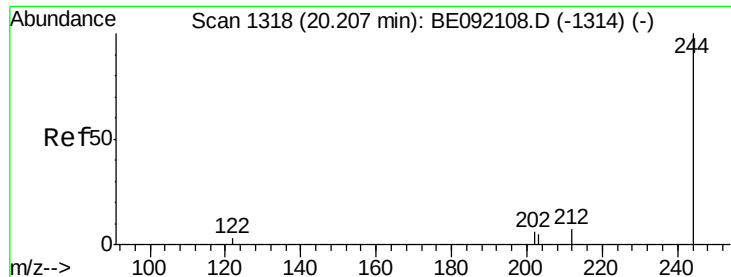


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

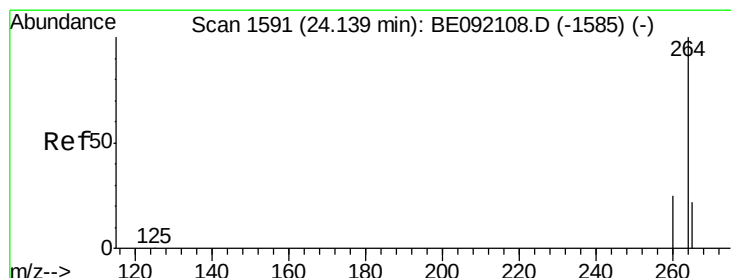
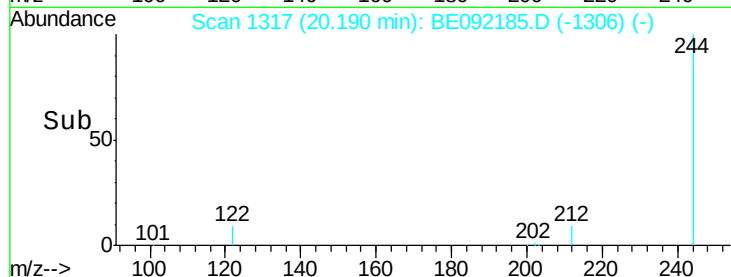
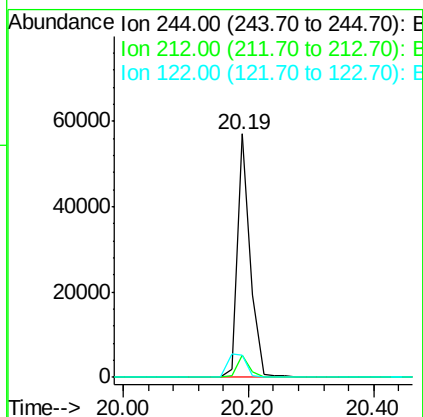
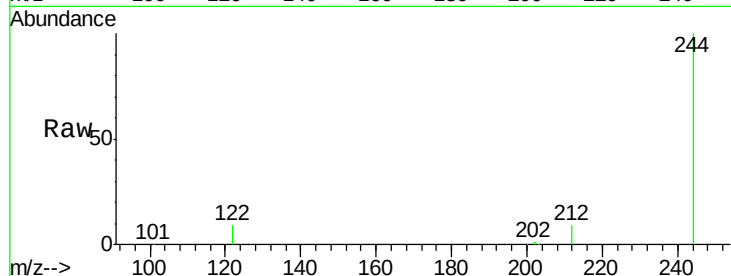




#24  
 Terphenyl-d14  
 Concen: 6.93 ng  
 RT: 20.19 min Scan# 1317  
 Delta R.T. -0.02 min  
 Lab File: BE092185.D  
 Acq: 4 Aug 2016 16:40

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-39-7.0-13.0

Tgt Ion: 244 Resp: 81872  
 Ion Ratio Lower Upper  
 244 100  
 212 9.2 9.1 13.7  
 122 8.9 11.0 16.4#



#28  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 24.14 min Scan# 1591  
 Delta R.T. 0.00 min  
 Lab File: BE092185.D  
 Acq: 4 Aug 2016 16:40

Tgt Ion: 264 Resp: 89511  
 Ion Ratio Lower Upper  
 264 100  
 260 25.2 20.8 31.2  
 265 21.8 16.6 25.0

