

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE051217\  
 Data File : BE093013.D  
 Acq On : 12 May 2017 12:05  
 Operator : SJ/MA  
 Sample : I2079-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC50MW002-170509

Quant Time: May 12 17:22:51 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE051117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 11 14:48:08 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 814      | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.53 | 136  | 3208     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.39 | 164  | 1461     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.13 | 188  | 4193     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.28 | 240  | 4315     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.69 | 264  | 3815     | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.36  | 112  | 23       | 0.01 | ng    | 0.00     |
| 5) Phenol-d6                | 6.92  | 99   | 68       | 0.02 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 8.88  | 82   | 477      | 0.19 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10 | 12.11 | 152  | 1402     | 0.31 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330  | 94       | 0.24 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.01 | 172  | 2769     | 0.48 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.14 | 212  | 3781     | 0.34 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.74 | 244  | 5787     | 0.76 | ng    | 0.00     |

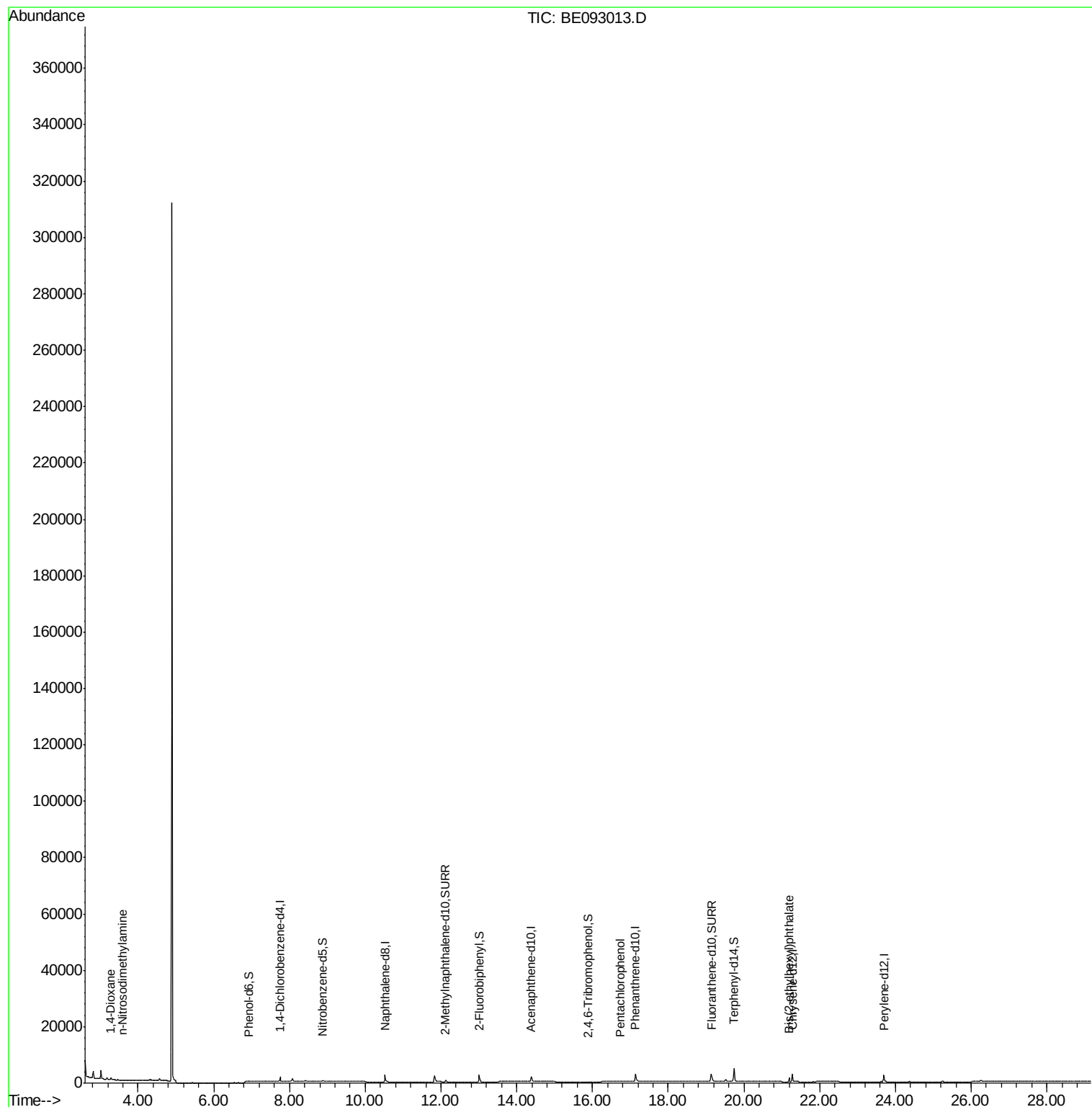
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.28  | 88   | 131      | 0.08      | ng    | # 1    |
| 3) n-Nitrosodimethylamine      | 3.58  | 42   | 40       | 0.03      | ng    | # 3    |
| 21) Hexachlorobenzene          | 16.50 | 284  | 2        | Below Cal |       | # 100  |
| 22) Pentachlorophenol          | 16.73 | 266  | 3        | 0.08      | ng    | # 81   |
| 23) Phenanthrene               | 17.19 | 178  | 155      | Below Cal |       | # 89   |
| 32) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 1375     | 0.36      | ng    | # 96   |

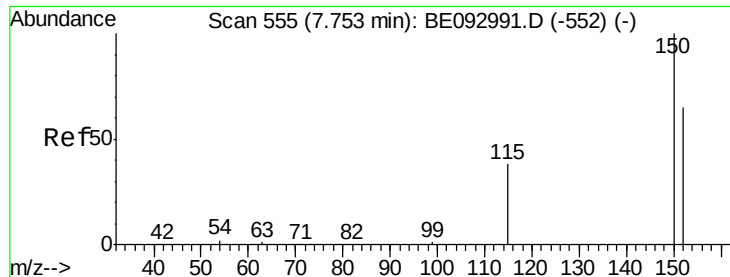
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.75 min Scan# 555

Delta R.T. -0.02 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Instrument :

BNA\_E

ClientSampleId :

AOC50MW002-170509

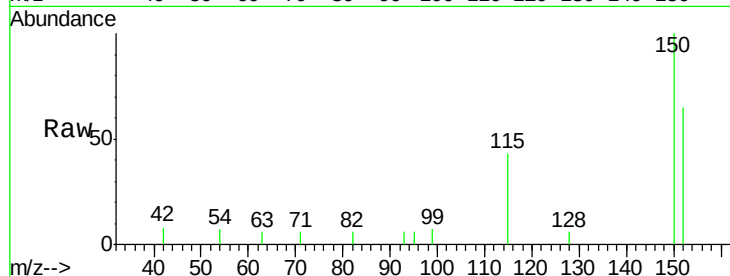
Tgt Ion: 152 Resp: 814

Ion Ratio Lower Upper

152 100

150 154.6 125.1 187.7

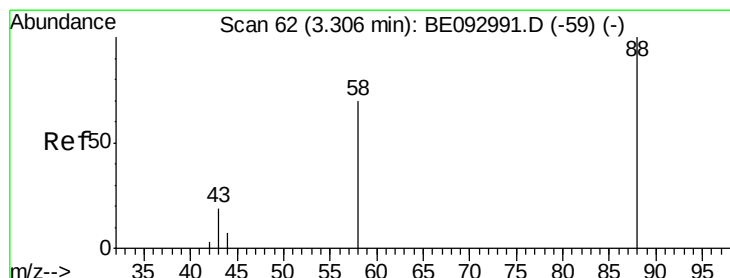
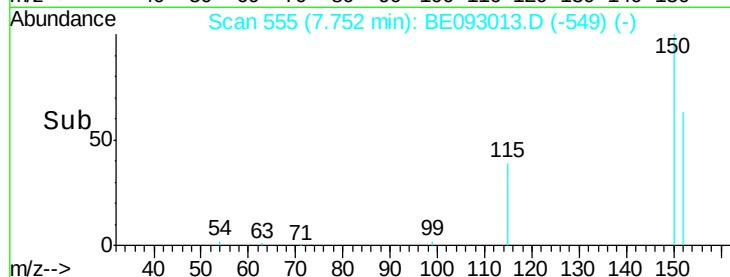
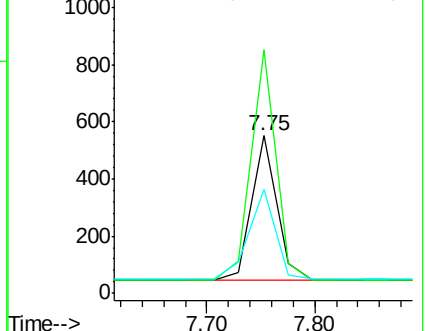
115 66.2 55.7 83.5



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: 0.08 ng

RT: 3.28 min Scan# 60

Delta R.T. -0.02 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

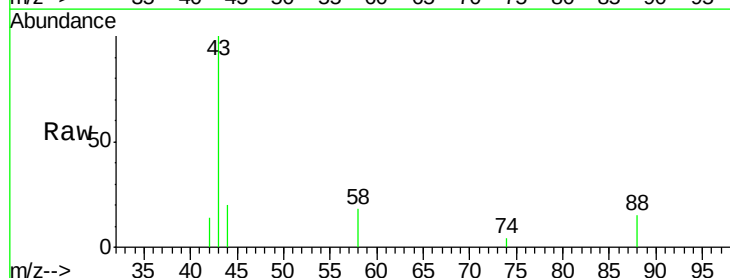
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

58 0.0 62.2 93.4#

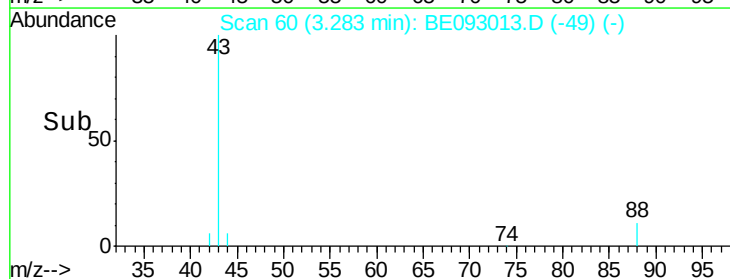
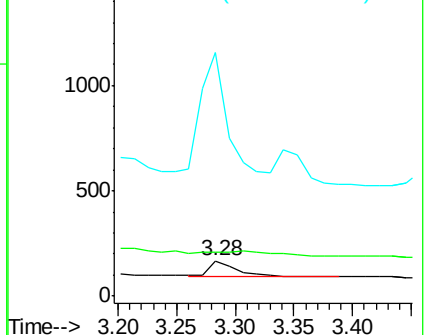
43 698.5 23.2 34.8#

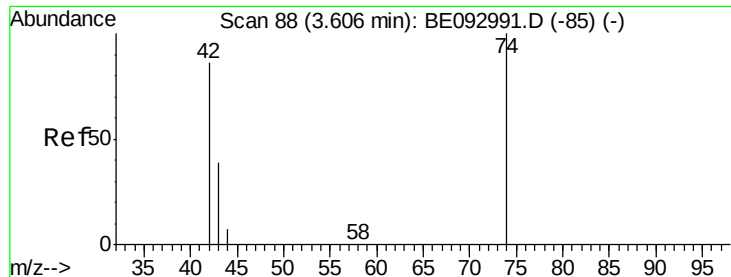


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.03 ng

RT: 3.58 min Scan# 86

Delta R.T. -0.02 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Instrument :

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AOC50MW002-170509

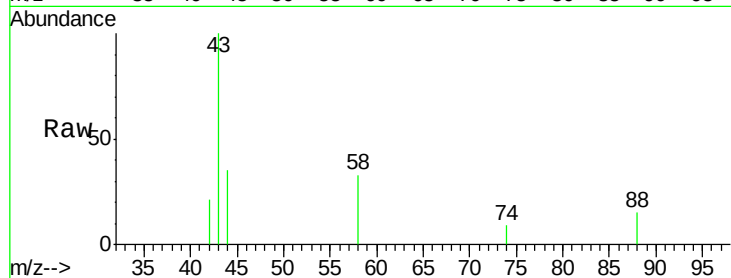
Tgt Ion: 42 Resp: 40

Ion Ratio Lower Upper

42 100

74 7.5 99.1 148.7#

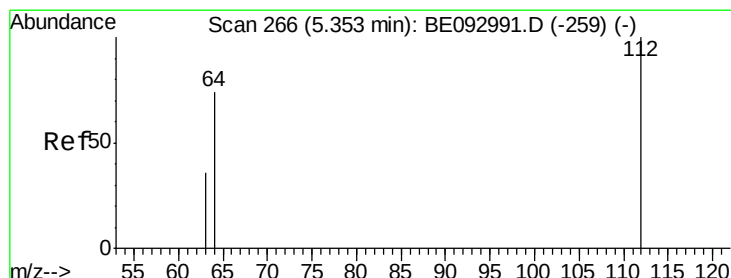
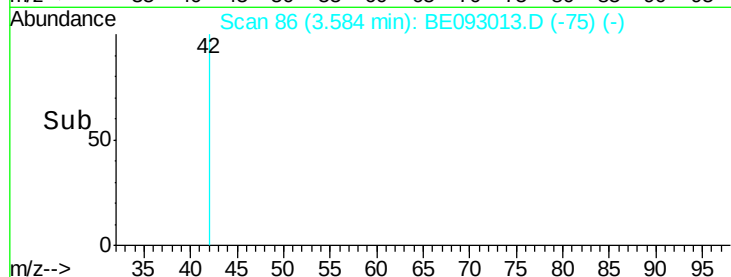
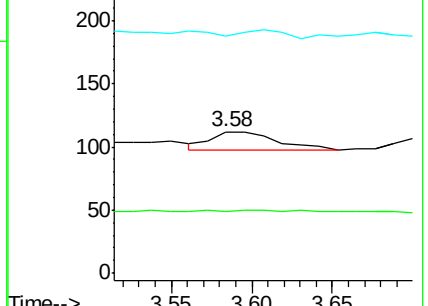
44 0.0 7.4 11.2#



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: 0.01 ng

RT: 5.36 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

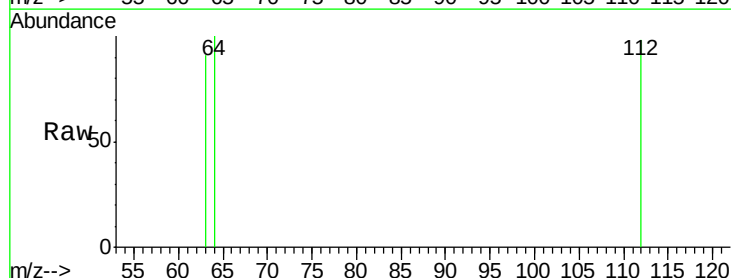
Tgt Ion: 112 Resp: 23

Ion Ratio Lower Upper

112 100

64 87.0 56.4 84.6#

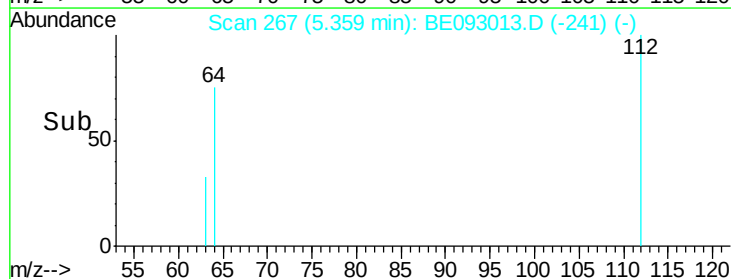
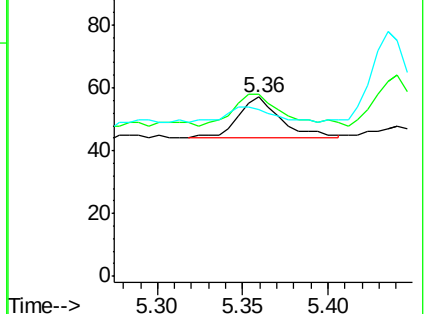
63 43.5 29.3 43.9

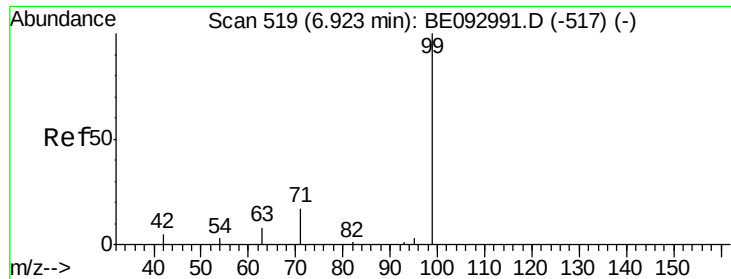


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.02 ng

RT: 6.92 min Scan# 519

Delta R.T. -0.02 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Instrument :

BNA\_E

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AOC50MW002-170509

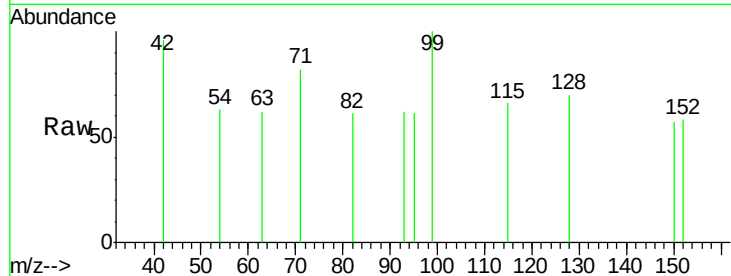
Tgt Ion: 99 Resp: 68

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

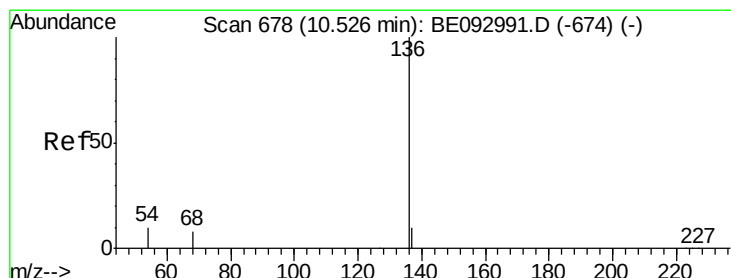
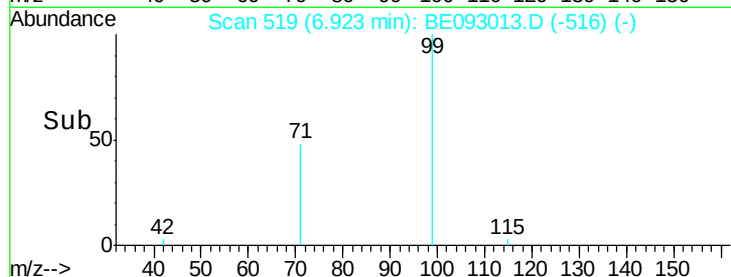
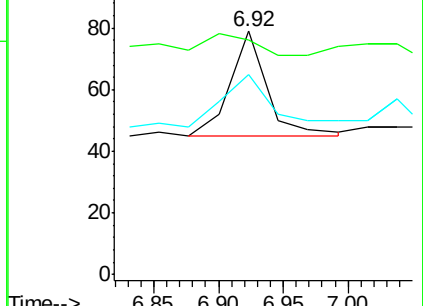
71 63.2 0.0 0.0#



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



#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.53 min Scan# 678

Delta R.T. 0.00 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Tgt Ion: 136 Resp: 3208

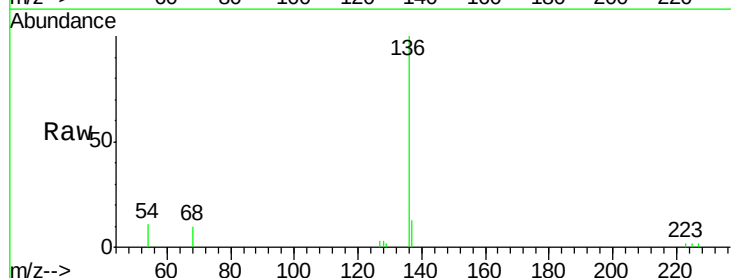
Ion Ratio Lower Upper

136 100

137 12.5 9.8 14.8

54 11.2 10.3 15.5

68 10.0 9.0 13.4

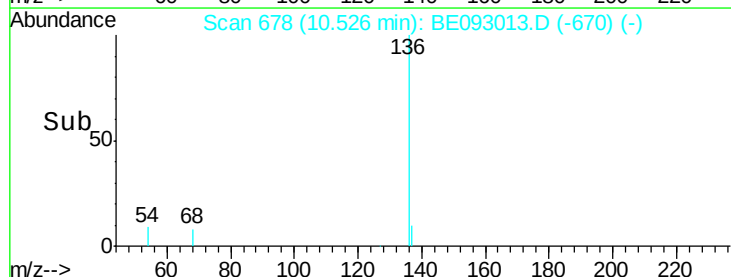
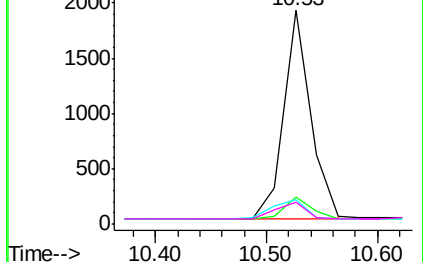


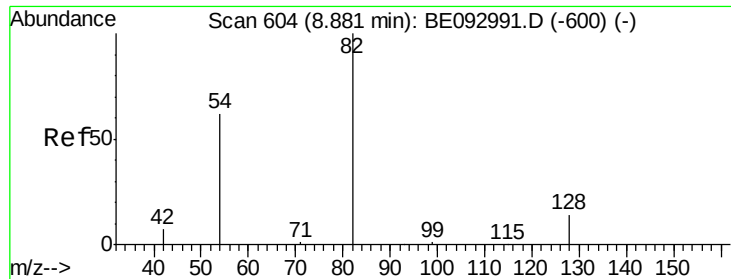
Abundance Ion 136.00 (135.70 to 136.70): E

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

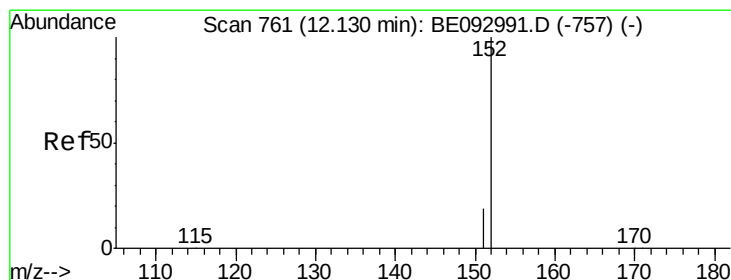
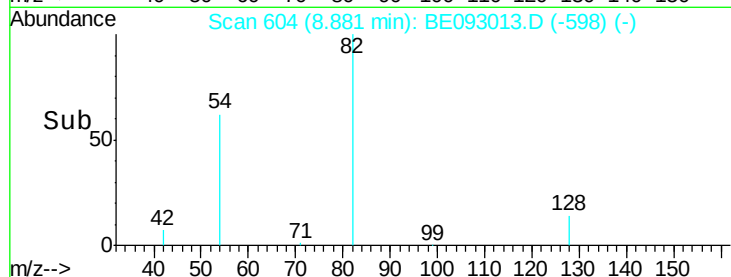
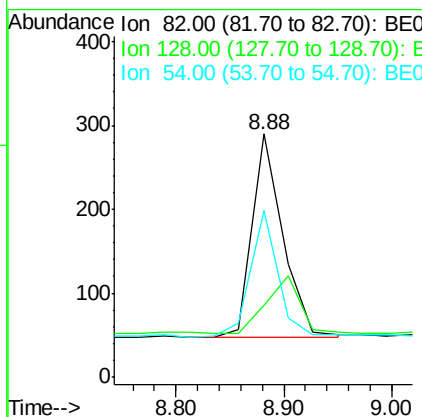
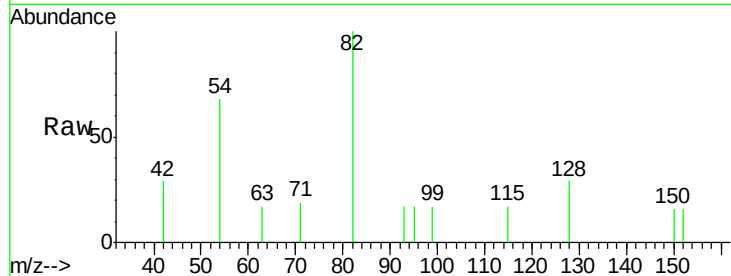




#8  
 Nitrobenzene-d5  
 Concen: 0.19 ng  
 RT: 8.88 min Scan# 604  
 Delta R.T. -0.02 min  
 Lab File: BE093013.D  
 Acq: 12 May 2017 12:05

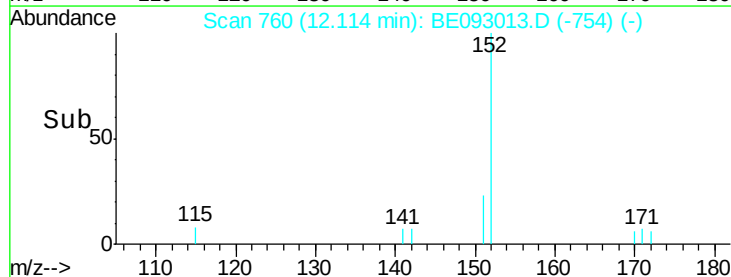
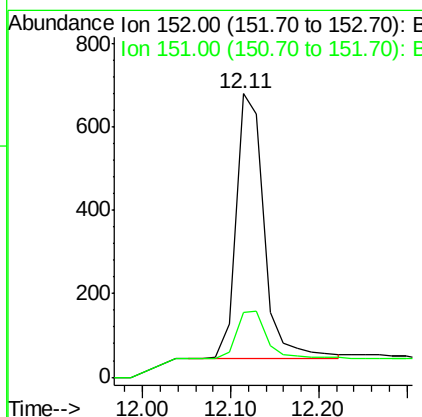
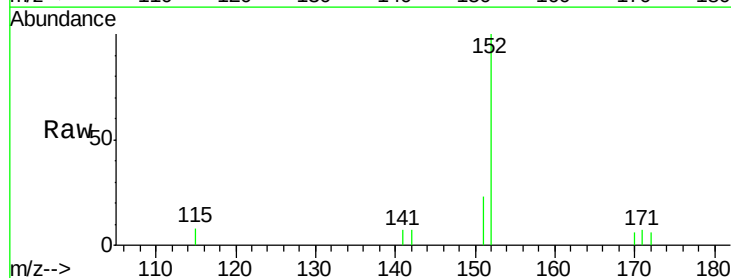
Instrument :  
 BNA\_E  
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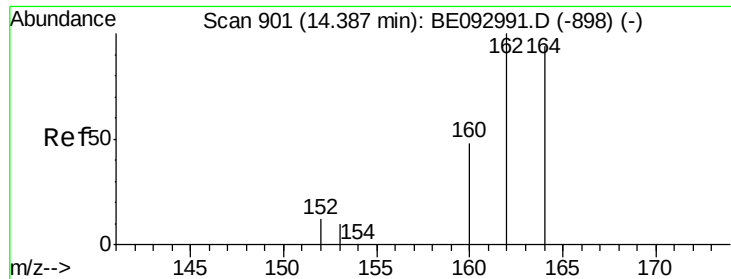
Tgt Ion: 82 Resp: 477  
 Ion Ratio Lower Upper  
 82 100  
 128 29.3 17.0 25.4#  
 54 68.3 53.8 80.6



#11  
 2-Methylnaphthalene-d10  
 Concen: 0.31 ng  
 RT: 12.11 min Scan# 760  
 Delta R.T. -0.02 min  
 Lab File: BE093013.D  
 Acq: 12 May 2017 12:05

Tgt Ion: 152 Resp: 1402  
 Ion Ratio Lower Upper  
 152 100  
 151 19.0 15.1 22.7





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.39 min Scan# 901

Delta R.T. -0.00 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Instrument :

BNA\_E

ClientSampleId :

AOC50MW002-170509

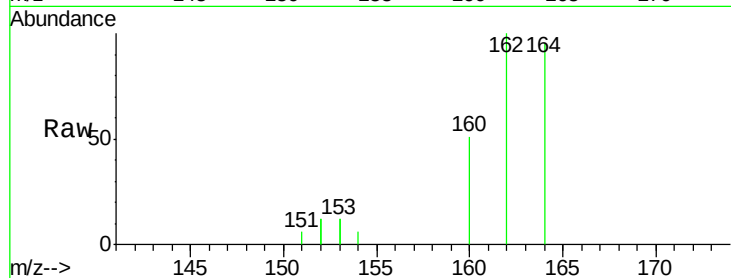
Tgt Ion:164 Resp: 1461

Ion Ratio Lower Upper

164 100

162 105.1 84.6 127.0

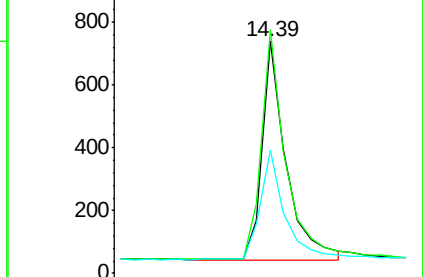
160 53.5 41.8 62.6



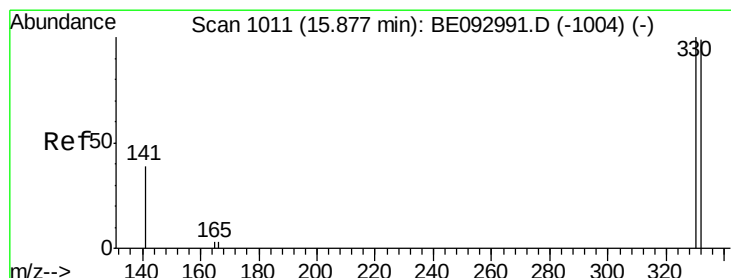
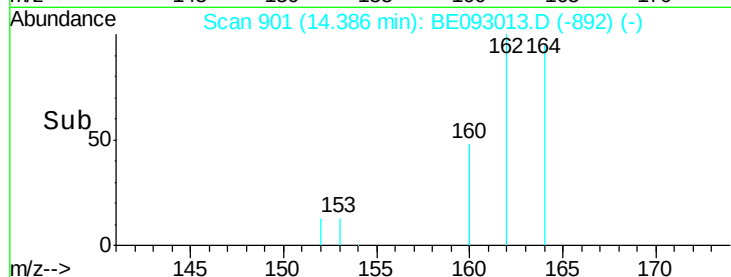
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->



#14

2,4,6-Tribromophenol

Concen: 0.24 ng

RT: 15.88 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

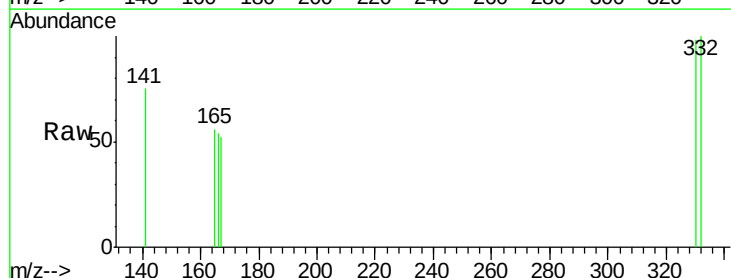
Tgt Ion:330 Resp: 94

Ion Ratio Lower Upper

330 100

332 94.7 77.7 116.5

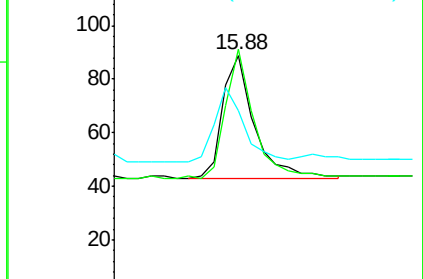
141 56.4 56.2 84.4



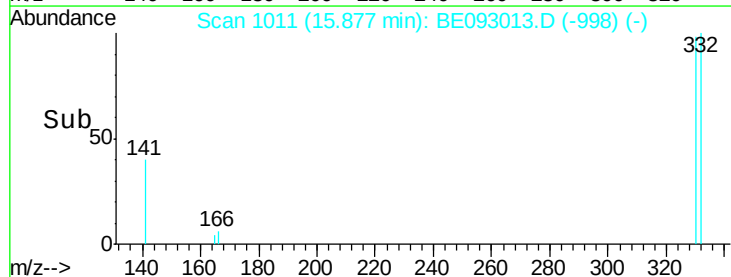
Abundance Ion 330.00 (329.70 to 330.70): E

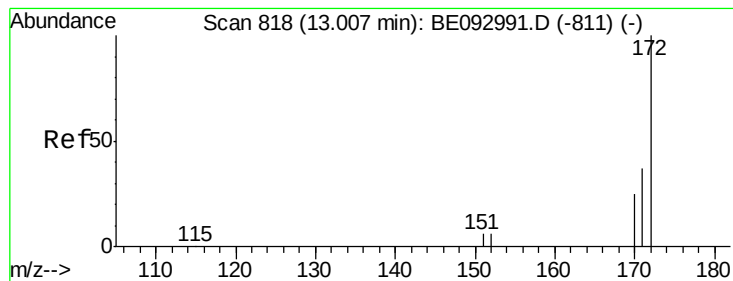
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



Time-->





#15

2-Fluorobiphenyl

Concen: 0.48 ng

RT: 13.01 min Scan# 818

Delta R.T. -0.00 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Instrument :

BNA\_E

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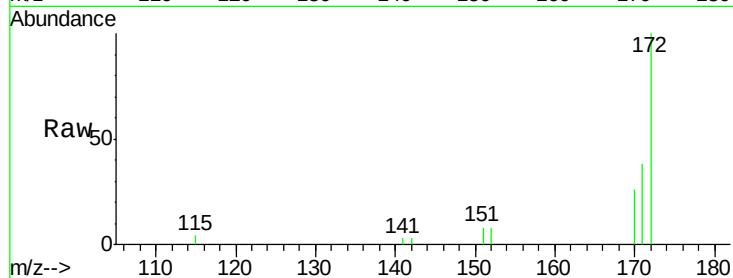
Tgt Ion:172 Resp: 2769

Ion Ratio Lower Upper

172 100

171 38.2 29.8 44.6

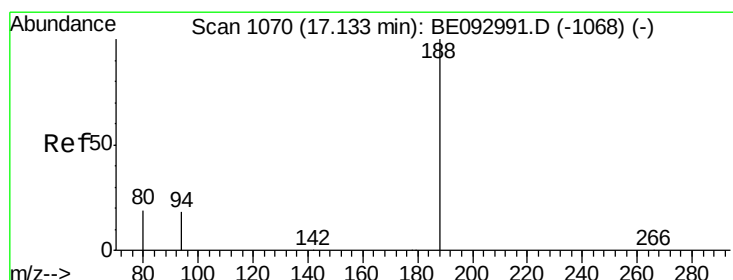
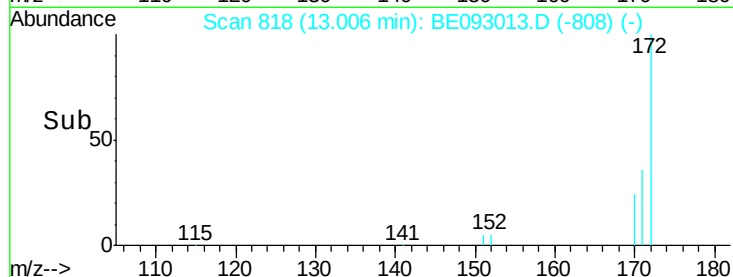
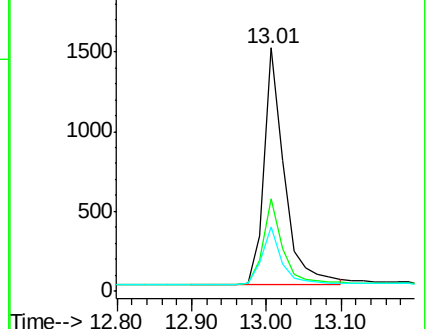
170 26.3 20.7 31.1



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1070

Delta R.T. -0.00 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

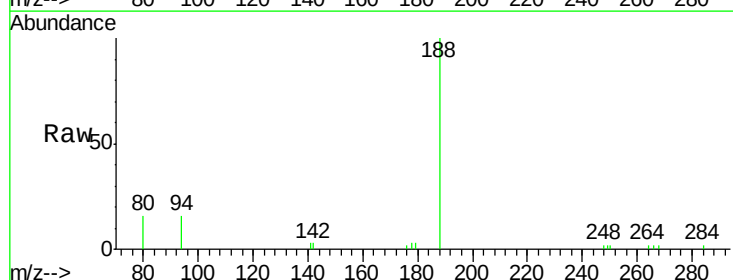
Tgt Ion:188 Resp: 4193

Ion Ratio Lower Upper

188 100

94 15.7 11.3 16.9

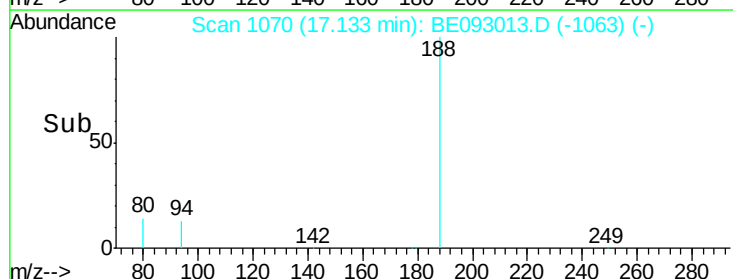
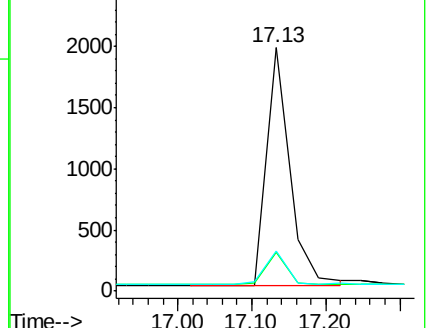
80 16.4 11.7 17.5



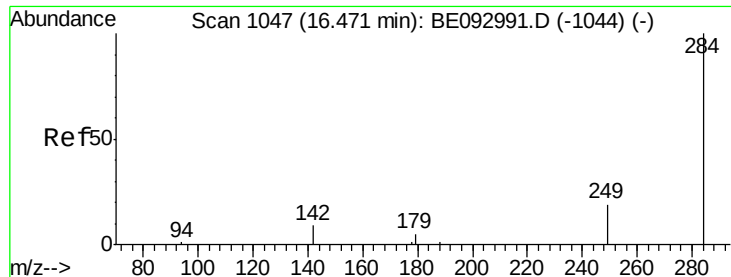
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0







#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.50 min Scan# 1048

Delta R.T. 0.03 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

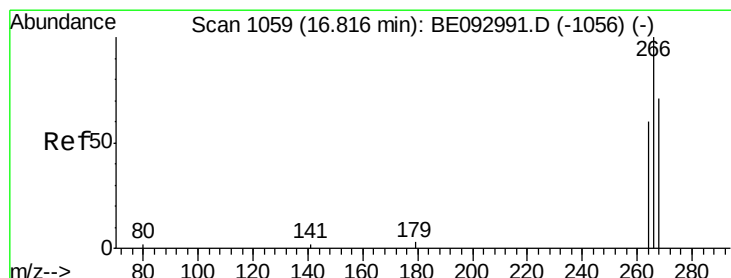
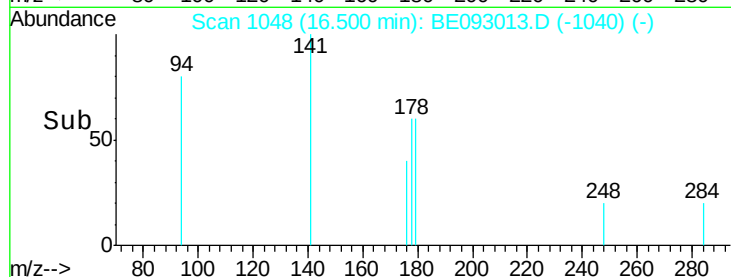
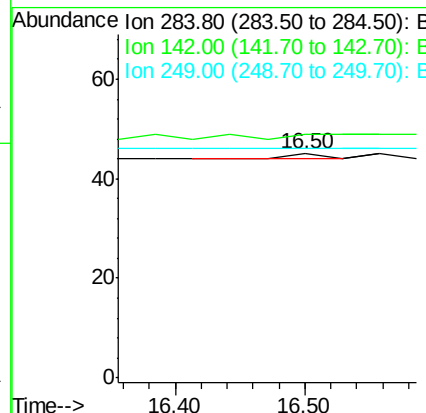
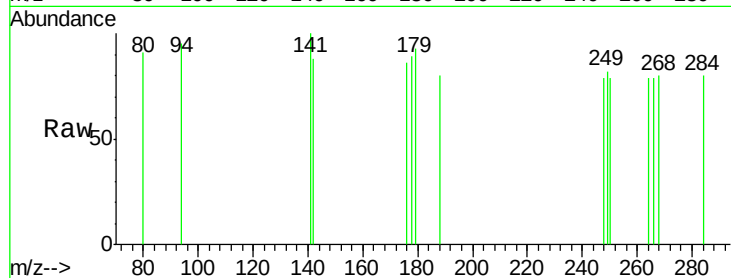
Instrument :

BNA\_E

ClientSampleId :

AOC50MW002-170509

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 284   | Resp: | 2     |
| Ion      | Ratio | Lower | Upper |
| 284      | 100   |       |       |
| 142      | 0.0   | 0.0   | 0.0   |
| 249      | 0.0   | 0.0   | 0.0   |



#22

Pentachlorophenol

Concen: 0.08 ng

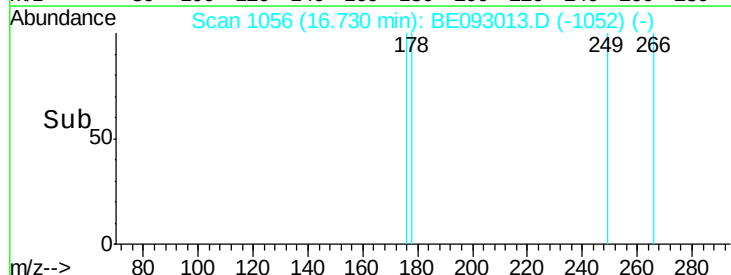
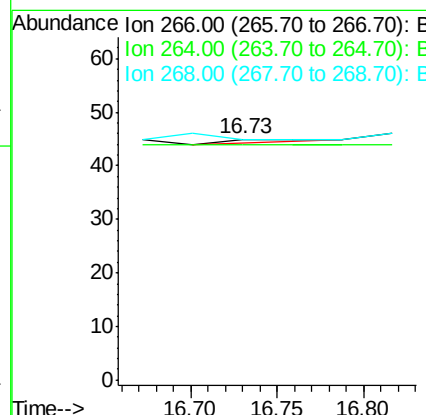
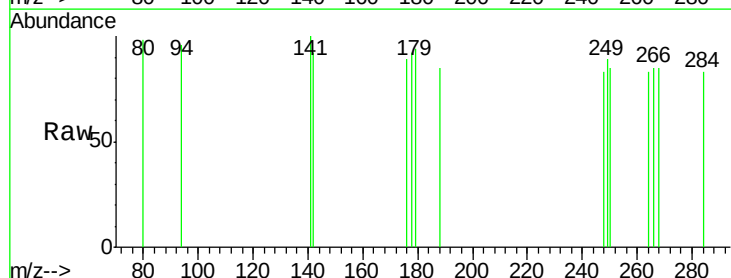
RT: 16.73 min Scan# 1056

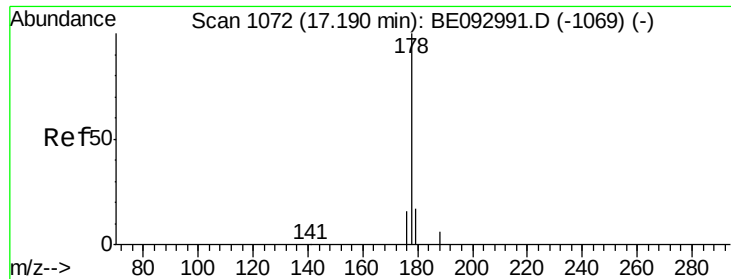
Delta R.T. -0.08 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 266   | Resp: | 3     |
| Ion      | Ratio | Lower | Upper |
| 266      | 100   |       |       |
| 264      | 97.8  | 58.2  | 87.2# |
| 268      | 100.0 | 71.9  | 107.9 |





#23

Phenanthrene

Concen: Below Cal

RT: 17.19 min Scan# 1072

Delta R.T. 0.01 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Instrument :

BNA\_E

ClientSampleId :

AOC50MW002-170509

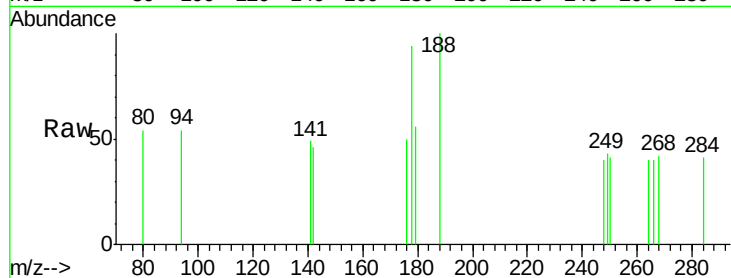
Tgt Ion:178 Resp: 155

Ion Ratio Lower Upper

178 100

176 13.5 15.0 22.4#

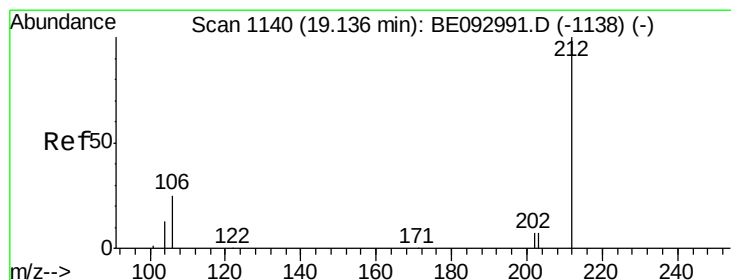
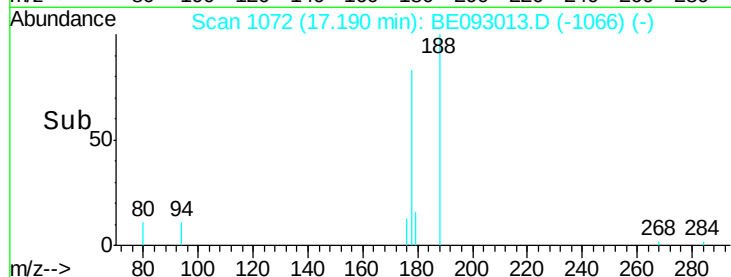
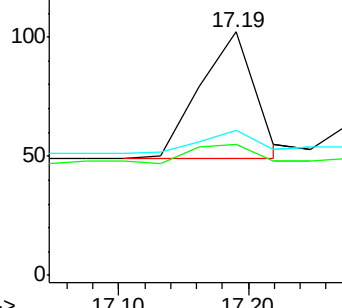
179 20.0 12.7 19.1#



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



#25

Fluoranthene-d10

Concen: 0.34 ng

RT: 19.14 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

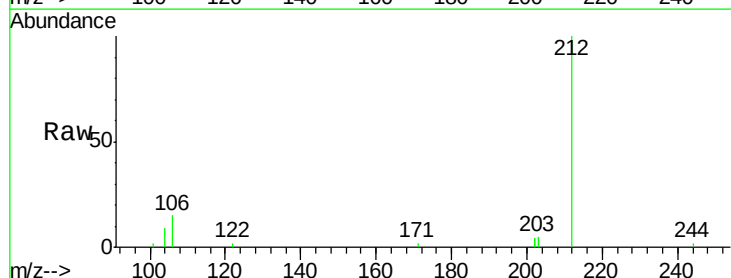
Tgt Ion:212 Resp: 3781

Ion Ratio Lower Upper

212 100

106 15.6 0.0 0.0#

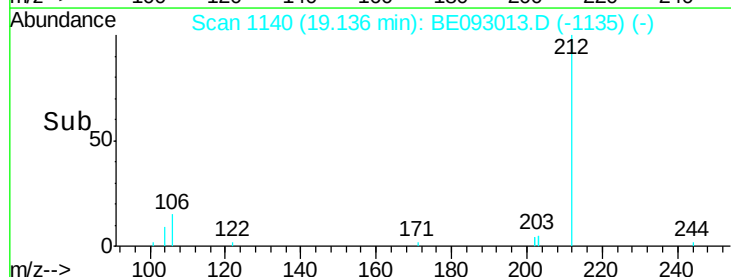
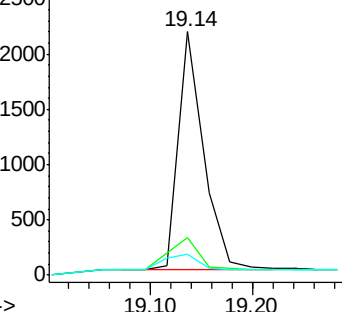
104 8.7 0.0 0.0#

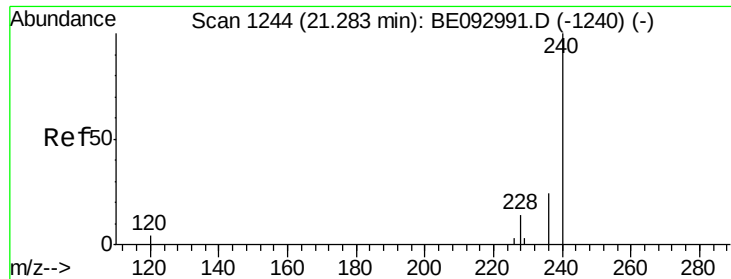


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

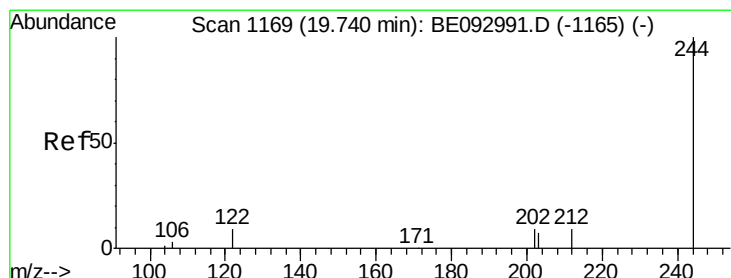
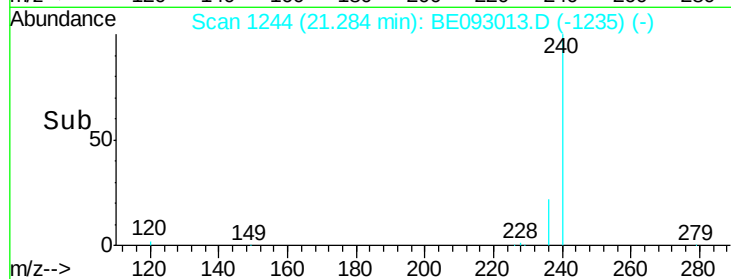
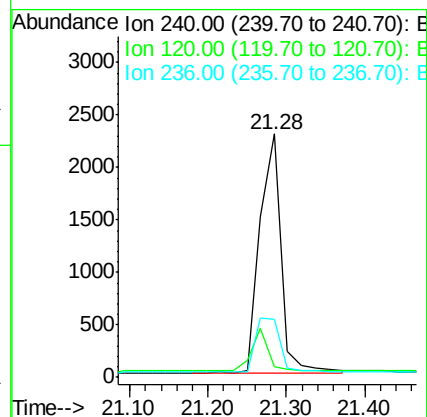
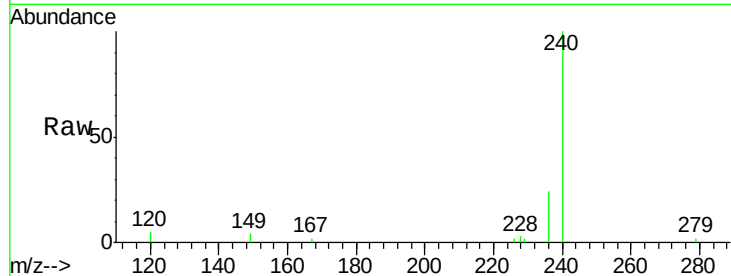




#27  
 Chrysene-d12  
 Concen: 0.40 ng  
 RT: 21.28 min Scan# 1244  
 Delta R.T. 0.00 min  
 Lab File: BE093013.D  
 Acq: 12 May 2017 12:05

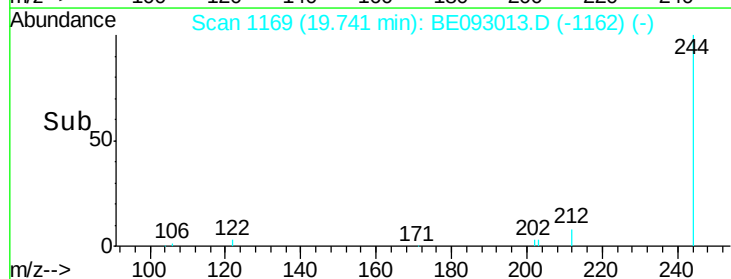
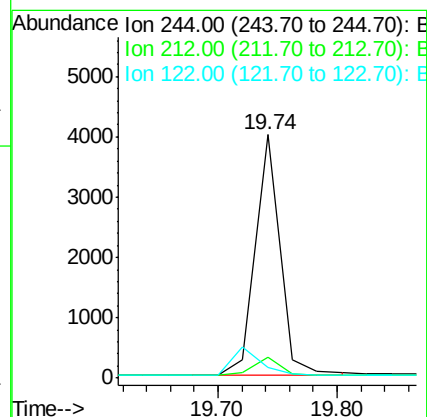
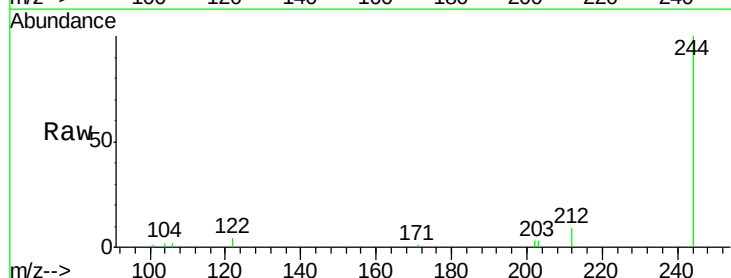
Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC50MW002-170509

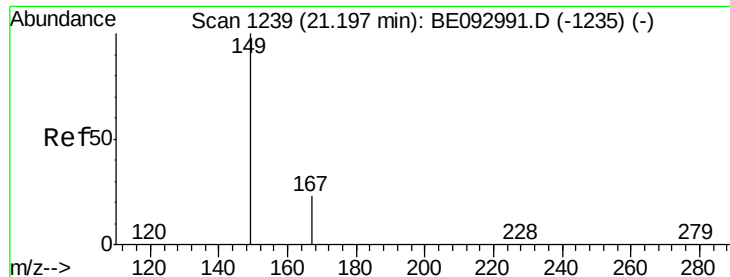
Tgt Ion:240 Resp: 4315  
 Ion Ratio Lower Upper  
 240 100  
 120 4.5 4.6 7.0#  
 236 24.0 20.8 31.2



#29  
 Terphenyl-d14  
 Concen: 0.76 ng  
 RT: 19.74 min Scan# 1169  
 Delta R.T. 0.01 min  
 Lab File: BE093013.D  
 Acq: 12 May 2017 12:05

Tgt Ion:244 Resp: 5787  
 Ion Ratio Lower Upper  
 244 100  
 212 8.8 10.6 16.0#  
 122 4.5 15.4 23.0#





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.36 ng

RT: 21.20 min Scan# 1239

Delta R.T. 0.00 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

Instrument :

BNA\_E

ClientSampleId :

AOC50MW002-170509

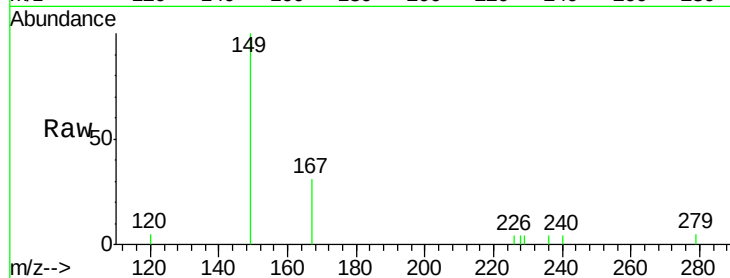
Tgt Ion:149 Resp: 1375

Ion Ratio Lower Upper

149 100

167 27.1 20.1 30.1

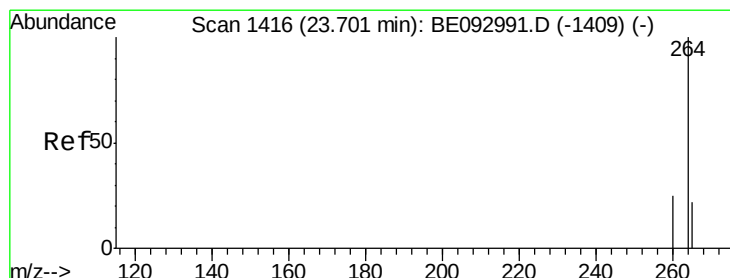
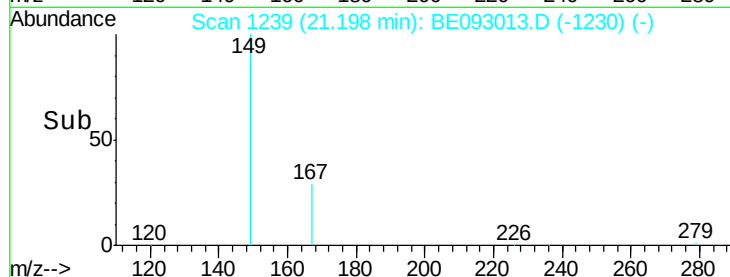
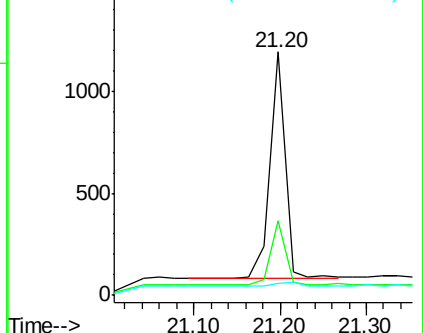
279 2.2 2.2 3.4#



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



#34

Perylene-d12

Concen: 0.40 ng

RT: 23.69 min Scan# 1415

Delta R.T. -0.01 min

Lab File: BE093013.D

Acq: 12 May 2017 12:05

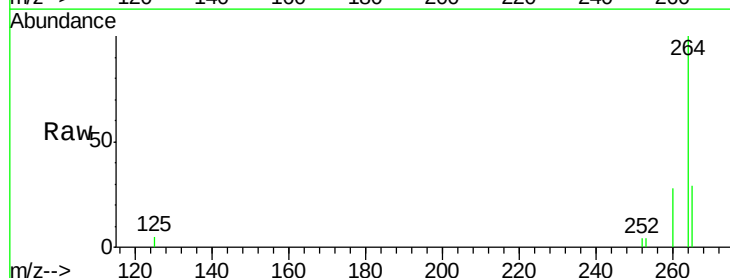
Tgt Ion:264 Resp: 3815

Ion Ratio Lower Upper

264 100

260 28.4 21.0 31.4

265 28.6 24.6 36.8



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

