

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE092316\  
 Data File : BE092421.D  
 Acq On : 23 Sep 2016 18:35  
 Operator : UM/SJ  
 Sample : H4818-05  
 Misc : LOD  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOD-WATER2016-05-QT4

Quant Time: Sep 23 19:16:20 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE092216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 22 18:25:56 2016  
 Response via : Initial Calibration

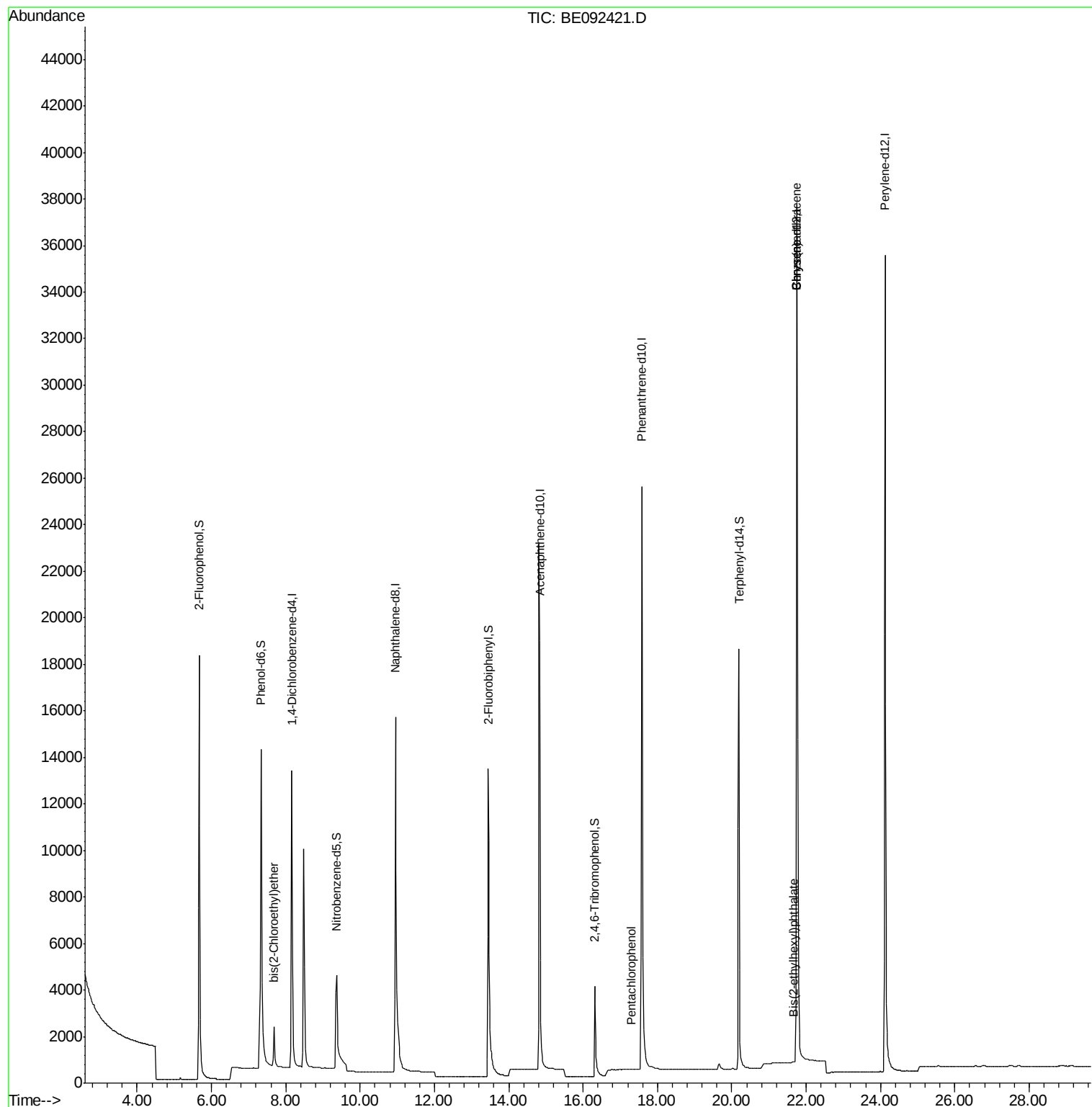
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.16  | 152  | 8067     | 5.00      | ng    | -0.02    |
| 7) Naphthalene-d8              | 10.95 | 136  | 31987    | 5.00      | ng    | 0.00     |
| 12) Acenaphthene-d10           | 14.83 | 164  | 21129    | 5.00      | ng    | 0.02     |
| 18) Phenanthrene-d10           | 17.58 | 188  | 44336    | 5.00      | ng    | 0.02     |
| 24) Chrysene-d12               | 21.75 | 240  | 56288    | 5.00      | ng    | 0.00     |
| 31) Perylene-d12               | 24.12 | 264  | 57528    | 5.00      | ng    | 0.03     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.67  | 112  | 16402    | 8.61      | ng    | -0.02    |
| 5) Phenol-d6                   | 7.33  | 99   | 20098    | 7.41      | ng    | -0.02    |
| 8) Nitrobenzene-d5             | 9.36  | 82   | 7799     | 3.44      | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol       | 16.32 | 330  | 3920     | 5.29      | ng    | 0.00     |
| 14) 2-Fluorobiphenyl           | 13.45 | 172  | 21496    | 4.30      | ng    | 0.00     |
| 26) Terphenyl-d14              | 20.19 | 244  | 29462    | 4.22      | ng    | 0.02     |
| Target Compounds               |       |      |          |           |       |          |
| 2) 1,4-Dioxane                 | 3.40  | 88   | 5        | Below Cal | #     | 19       |
| 6) bis(2-Chloroethyl)ether     | 7.68  | 93   | 30       | 0.10 ng   | #     | 1        |
| 20) Pentachlorophenol          | 17.30 | 266  | 1        | 0.18 ng   | #     | 72       |
| 27) Benzo(a)anthracene         | 21.75 | 228  | 1163     | 0.02 ng   | #     | 65       |
| 28) Chrysene                   | 21.75 | 228  | 1206     | 0.02 ng   | #     | 69       |
| 29) Bis(2-ethylhexyl)phthalate | 21.66 | 149  | 153      | 0.03 ng   | #     | 79       |

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

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE092316\  
Data File : BE092421.D  
Acq On : 23 Sep 2016 18:35  
Operator : UM/SJ  
Sample : H4818-05  
Misc : LOD  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
LOD-WATER2016-05-QT4

Quant Time: Sep 23 19:16:20 2016  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE092216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 22 18:25:56 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

Instrument :

BNA\_E

ClientSampleId :

LOD-WATER2016-05-QT4

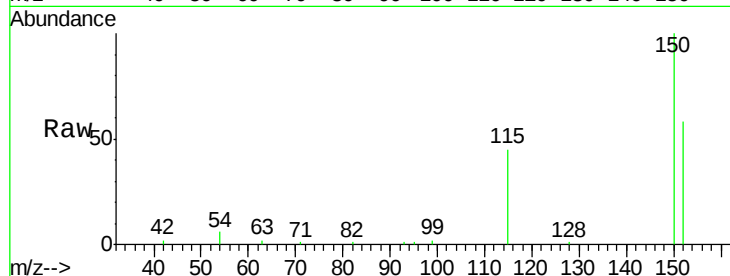
Tgt Ion:152 Resp: 8067

Ion Ratio Lower Upper

152 100

150 173.1 106.0 159.0#

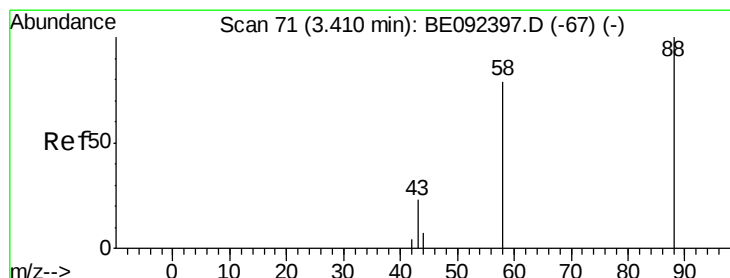
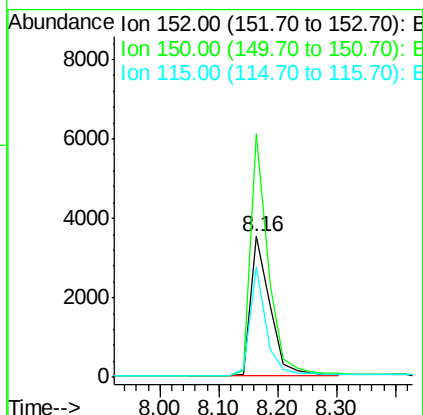
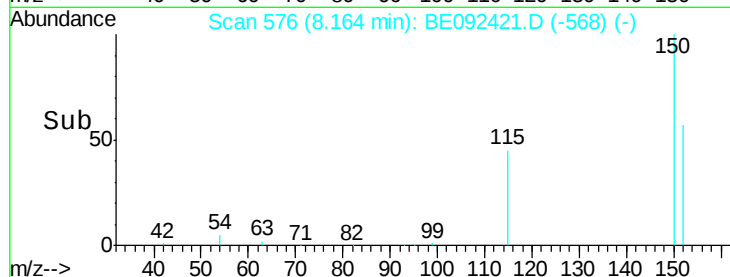
115 78.1 31.2 46.8#



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: Below Cal

RT: 3.40 min Scan# 70

Delta R.T. -0.02 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

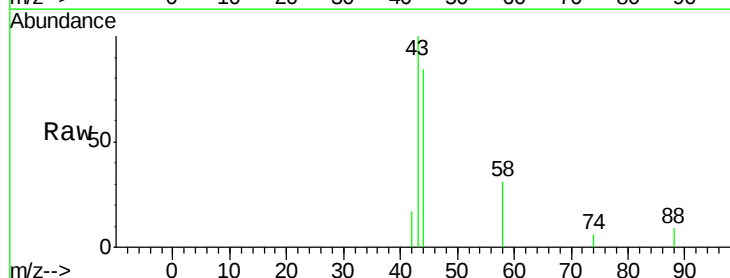
Tgt Ion: 88 Resp: 5

Ion Ratio Lower Upper

88 100

58 0.0 63.6 95.4#

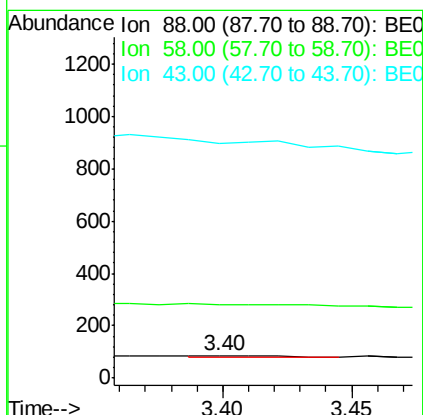
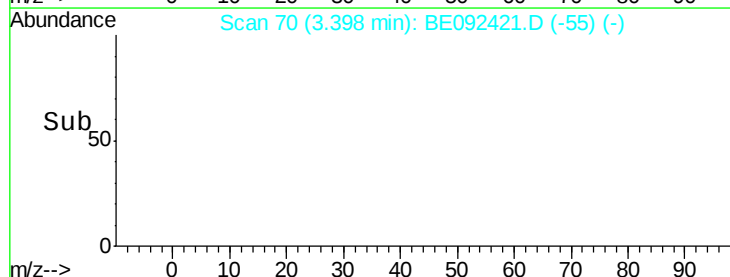
43 0.0 28.0 42.0#

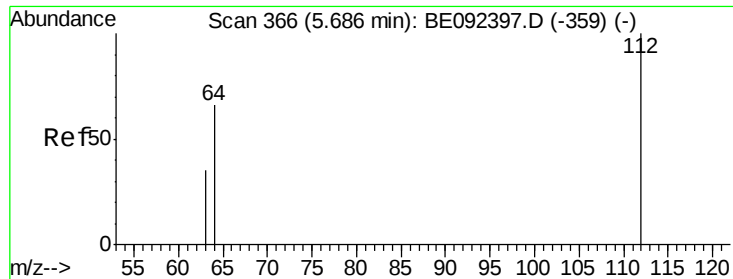


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 8.61 ng

RT: 5.67 min Scan# 363

Delta R.T. -0.02 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

Instrument :

BNA\_E

ClientSampleId :

LOD-WATER2016-05-QT4

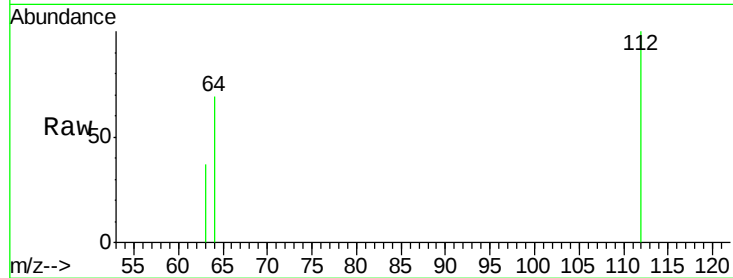
Tgt Ion: 112 Resp: 16402

Ion Ratio Lower Upper

112 100

64 67.2 53.5 80.3

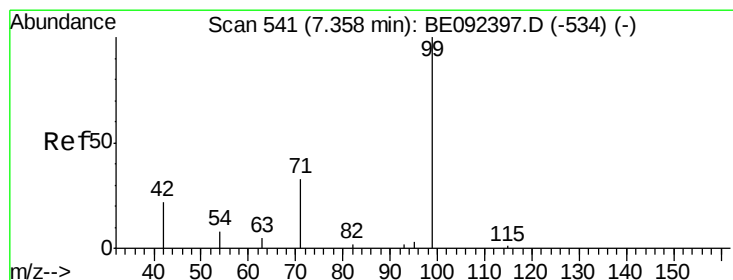
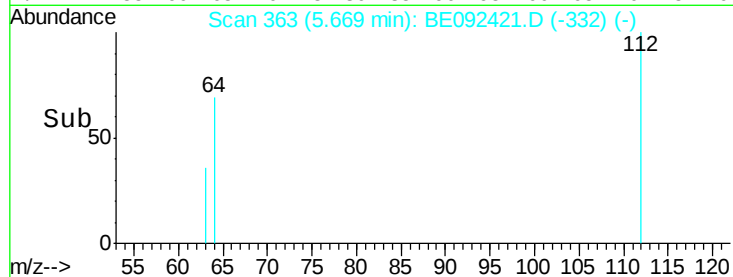
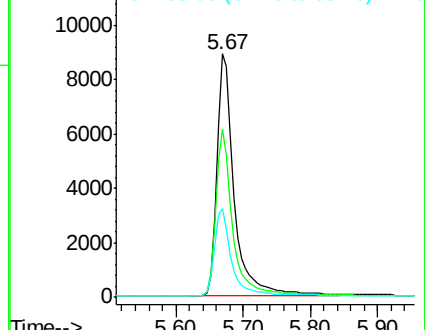
63 35.8 27.9 41.9



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: 7.41 ng

RT: 7.33 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

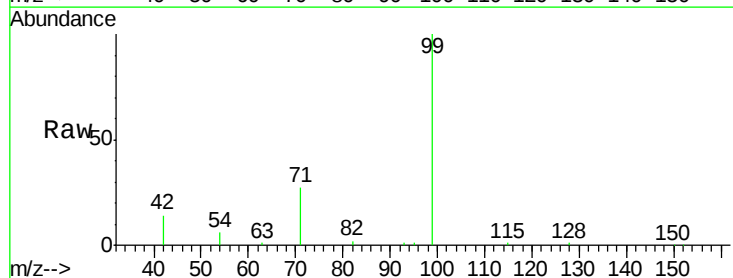
Tgt Ion: 99 Resp: 20098

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

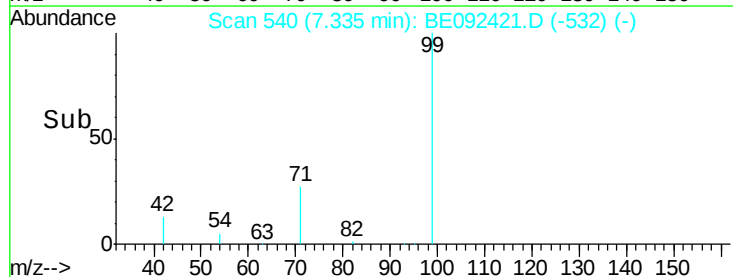
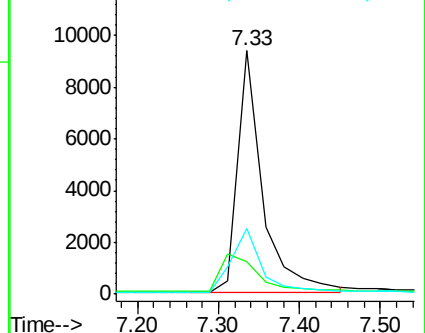
71 32.7 30.6 45.8

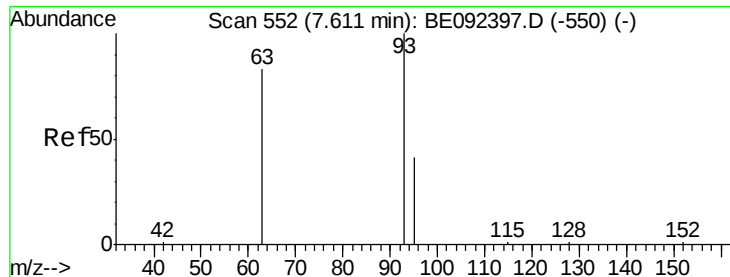


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.10 ng

RT: 7.68 min Scan# 555

Delta R.T. 0.07 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

Instrument :

BNA\_E

ClientSampleId :

LOD-WATER2016-05-QT4

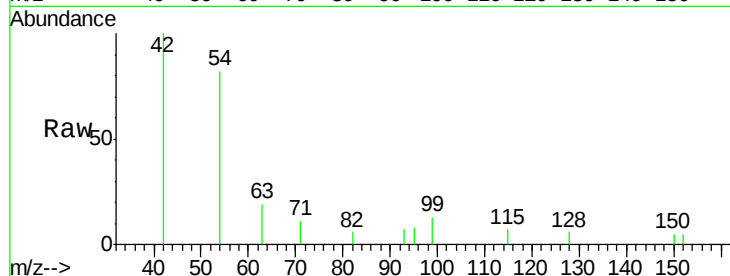
Tgt Ion: 93 Resp: 30

Ion Ratio Lower Upper

93 100

63 690.0 71.6 107.4#

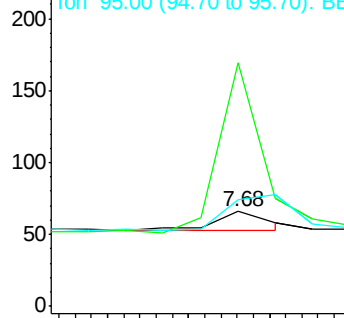
95 0.0 24.0 36.0#



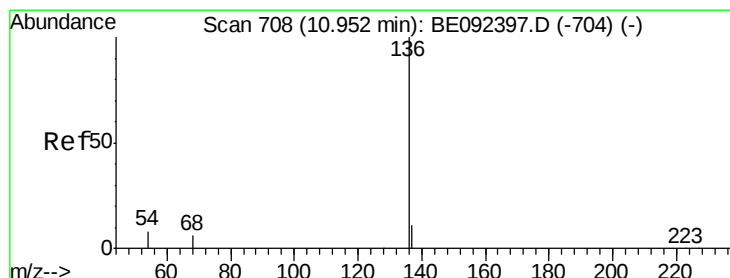
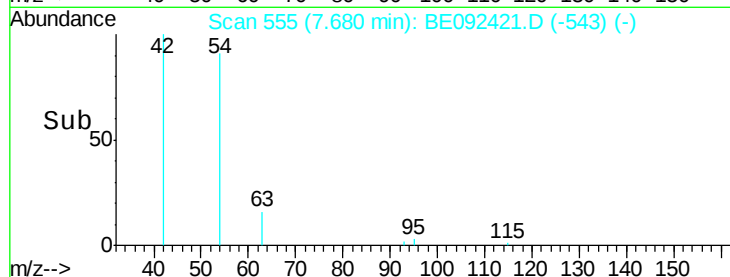
Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time-->



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. 0.00 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

Tgt Ion: 136 Resp: 31987

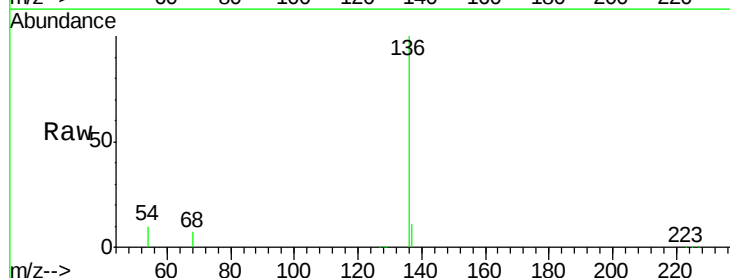
Ion Ratio Lower Upper

136 100

137 10.9 8.2 12.4

54 9.9 9.6 14.4

68 7.1 6.7 10.1

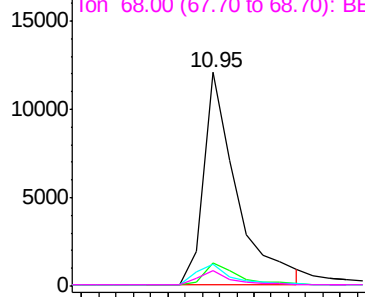


Abundance Ion 136.00 (135.70 to 136.70): E

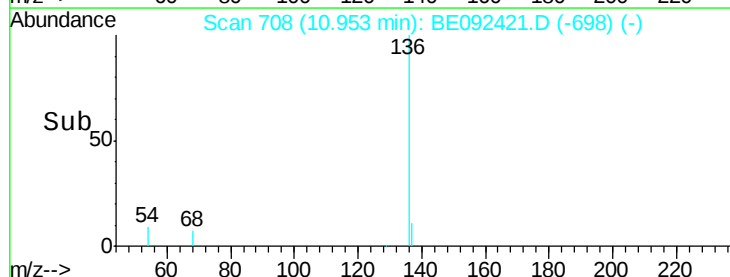
Ion 137.00 (136.70 to 137.70): E

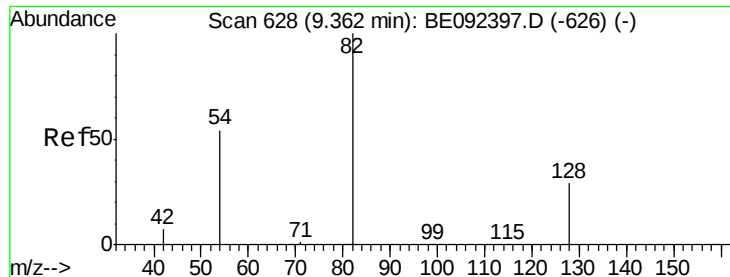
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->





#8

Nitrobenzene-d5

Concen: 3.44 ng

RT: 9.36 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

Instrument :

BNA\_E

ClientSampleId :

LOD-WATER2016-05-QT4

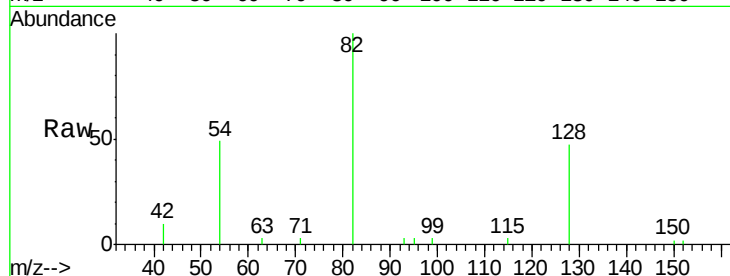
Tgt Ion: 82 Resp: 7799

Ion Ratio Lower Upper

82 100

128 47.3 39.0 58.4

54 49.1 44.8 67.2

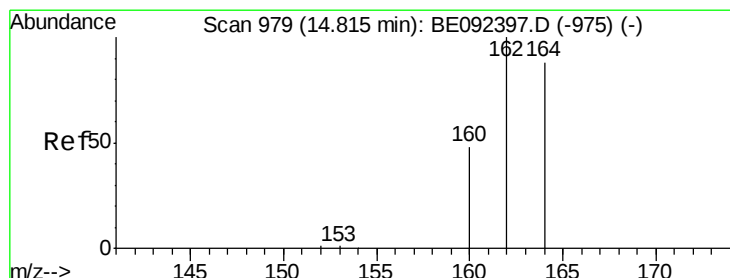
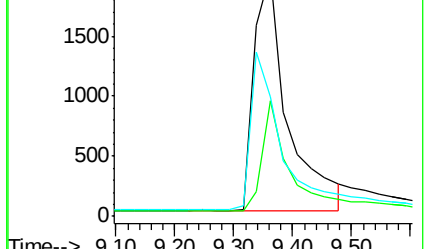
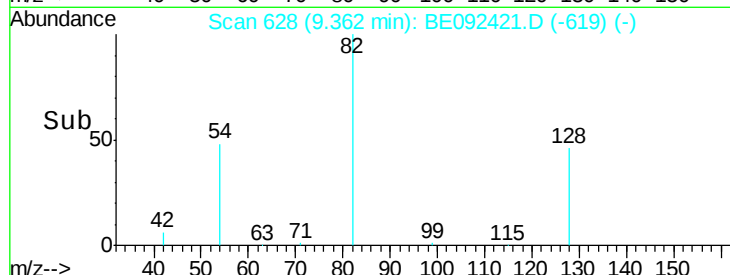


Abundance Ion 82.00 (81.70 to 82.70): BE092397.D (-626) (-)

Ion 128.00 (127.70 to 128.70): BE092397.D (-626) (-)

Ion 54.00 (53.70 to 54.70): BE092397.D (-626) (-)

Time-->



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 980

Delta R.T. 0.02 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

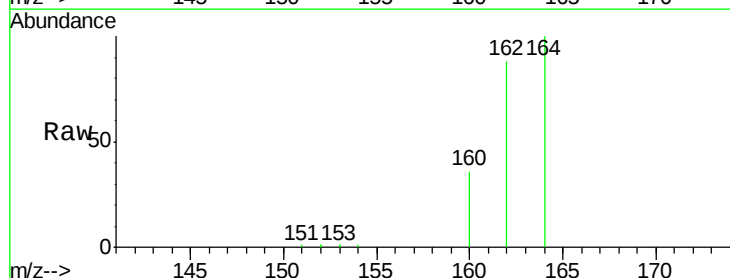
Tgt Ion: 164 Resp: 21129

Ion Ratio Lower Upper

164 100

162 88.4 71.4 107.0

160 35.8 27.4 41.2

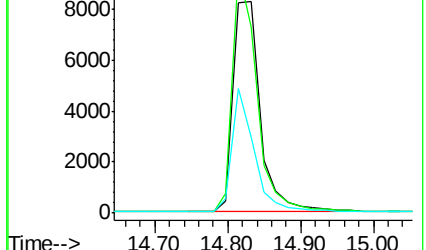
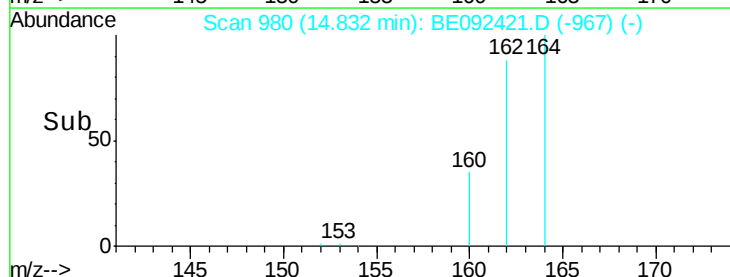


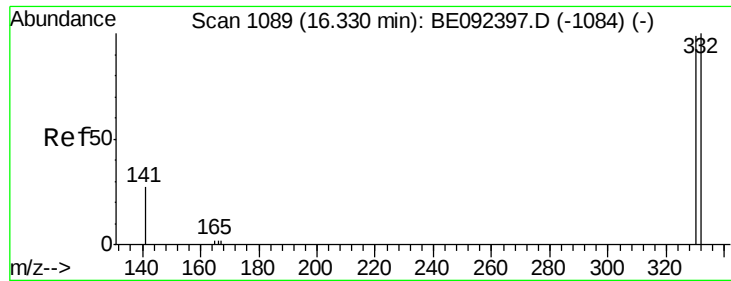
Abundance Ion 164.00 (163.70 to 164.70): BE092397.D (-975) (-)

Ion 162.00 (161.70 to 162.70): BE092397.D (-975) (-)

Ion 160.00 (159.70 to 160.70): BE092397.D (-975) (-)

Time-->

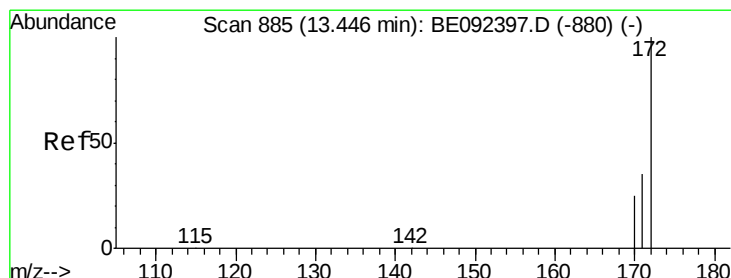
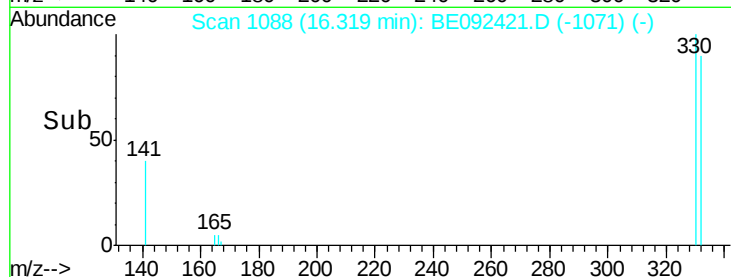
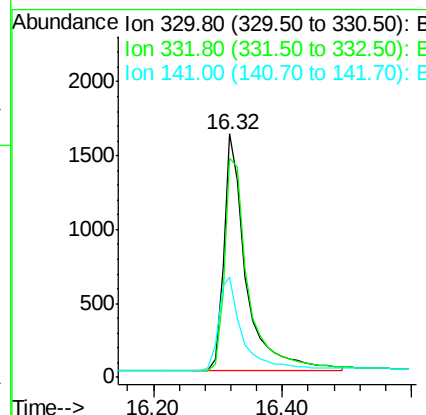
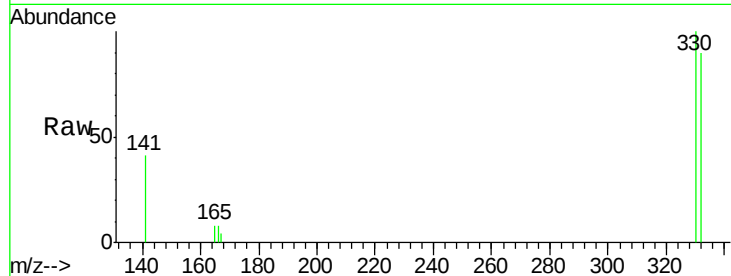




#13  
 2,4,6-Tribromophenol  
 Concen: 5.29 ng  
 RT: 16.32 min Scan# 1088  
 Delta R.T. 0.00 min  
 Lab File: BE092421.D  
 Acq: 23 Sep 2016 18:35

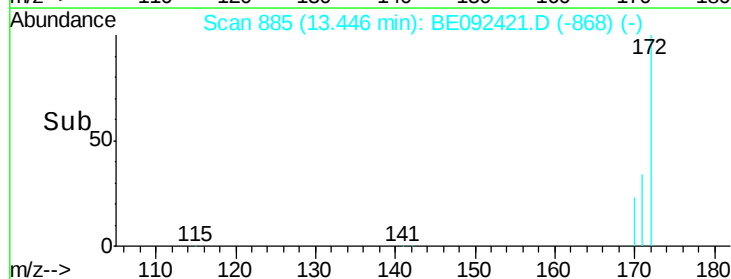
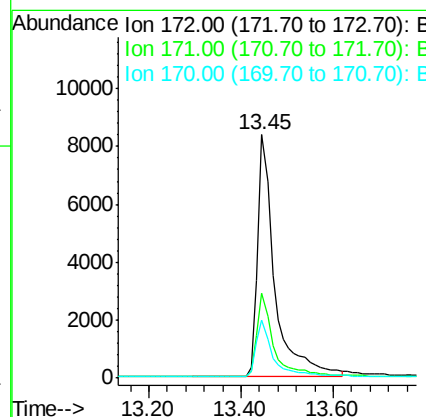
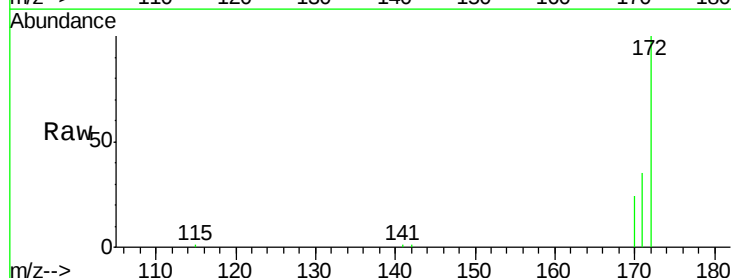
Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOD-WATER2016-05-QT4

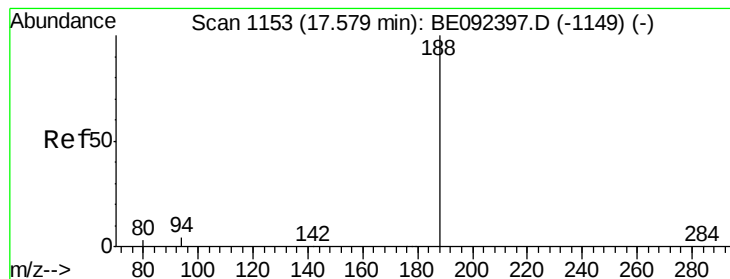
Tgt Ion: 330 Resp: 3920  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 75.4 113.0  
 141 42.5 31.0 46.6



#14  
 2-Fluorobiphenyl  
 Concen: 4.30 ng  
 RT: 13.45 min Scan# 885  
 Delta R.T. 0.00 min  
 Lab File: BE092421.D  
 Acq: 23 Sep 2016 18:35

Tgt Ion: 172 Resp: 21496  
 Ion Ratio Lower Upper  
 172 100  
 171 34.7 30.1 45.1  
 170 23.7 21.8 32.6





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.58 min Scan# 1153

Delta R.T. 0.02 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

Instrument :

BNA\_E

ClientSampleId :

LOD-WATER2016-05-QT4

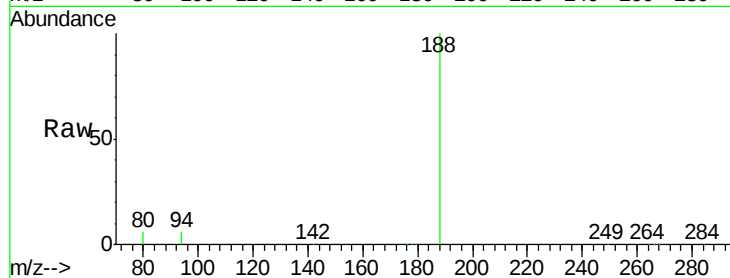
Tgt Ion:188 Resp: 44336

Ion Ratio Lower Upper

188 100

94 6.1 3.2 4.8#

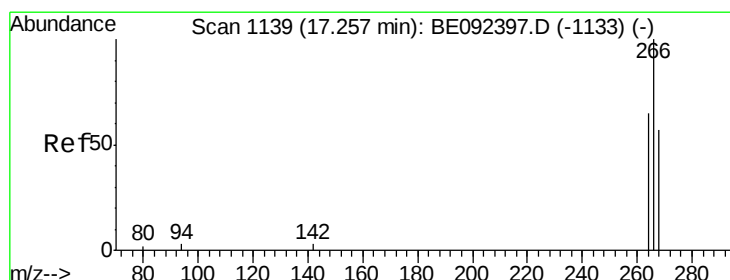
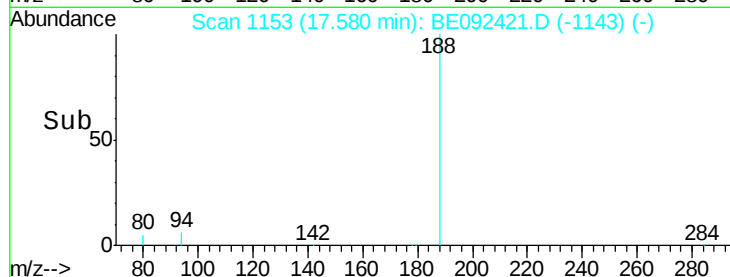
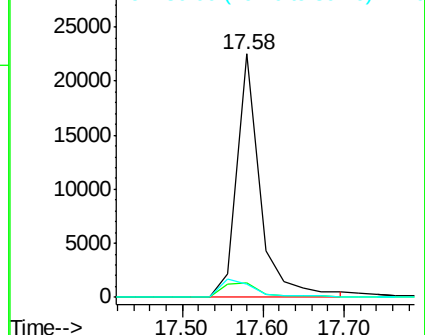
80 5.7 2.6 3.8#



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



#20

Pentachlorophenol

Concen: 0.18 ng

RT: 17.30 min Scan# 1141

Delta R.T. 0.05 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

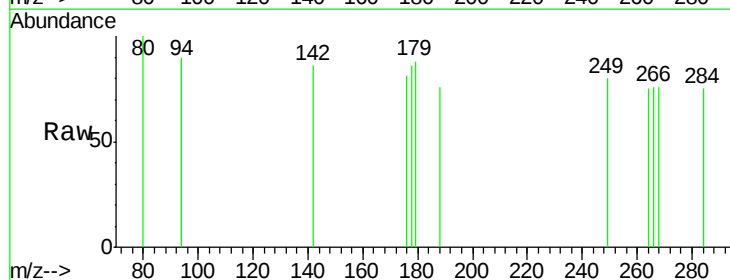
Tgt Ion:266 Resp: 1

Ion Ratio Lower Upper

266 100

268 100.0 62.5 93.7#

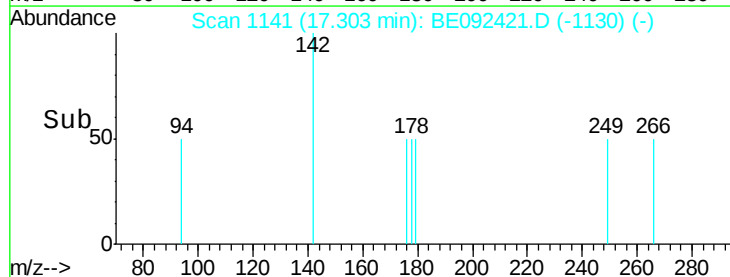
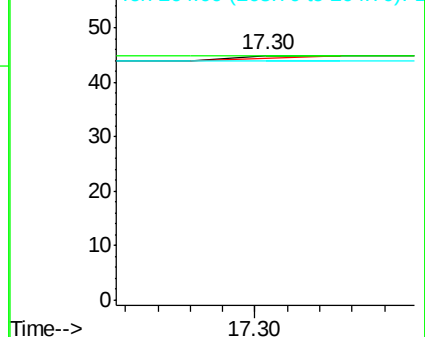
264 97.8 57.2 85.8#

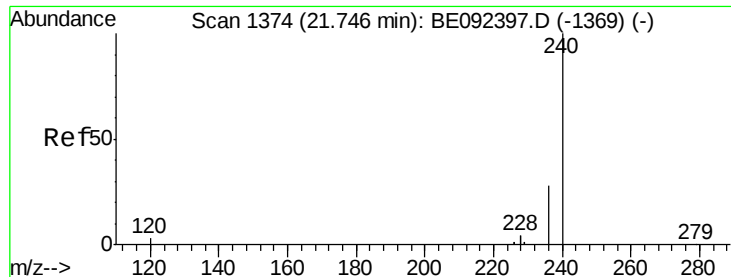


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

Instrument :

BNA\_E

ClientSampleId :

LOD-WATER2016-05-QT4

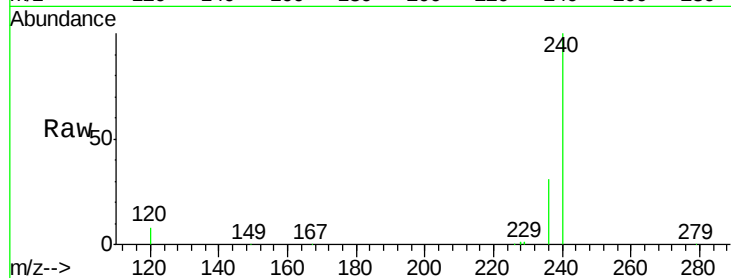
Tgt Ion:240 Resp: 56288

Ion Ratio Lower Upper

240 100

120 7.9 2.6 4.0#

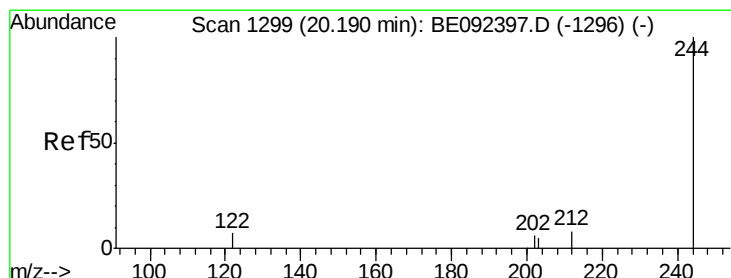
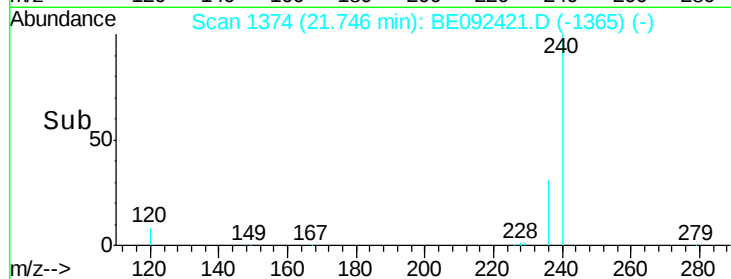
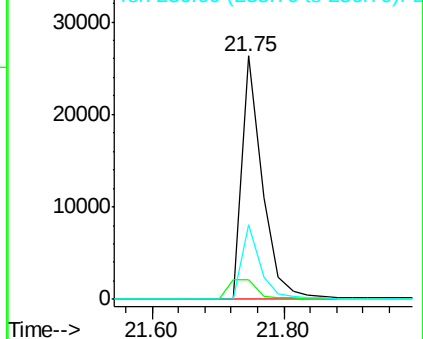
236 30.9 24.6 37.0



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



#26

Terphenyl-d14

Concen: 4.22 ng

RT: 20.19 min Scan# 1299

Delta R.T. 0.02 min

Lab File: BE092421.D

Acq: 23 Sep 2016 18:35

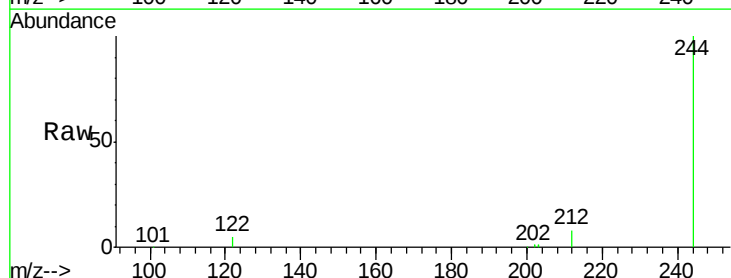
Tgt Ion:244 Resp: 29462

Ion Ratio Lower Upper

244 100

212 7.6 6.7 10.1

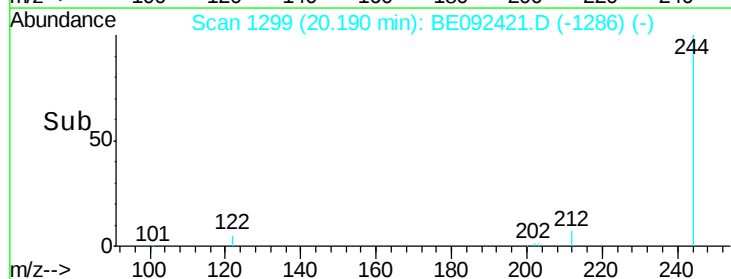
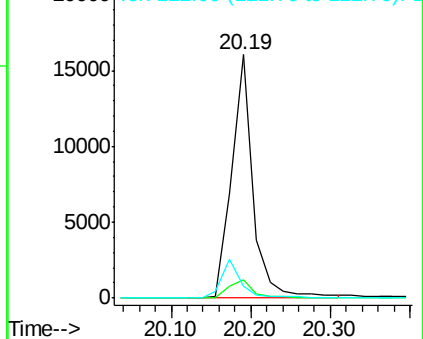
122 4.8 3.6 5.4

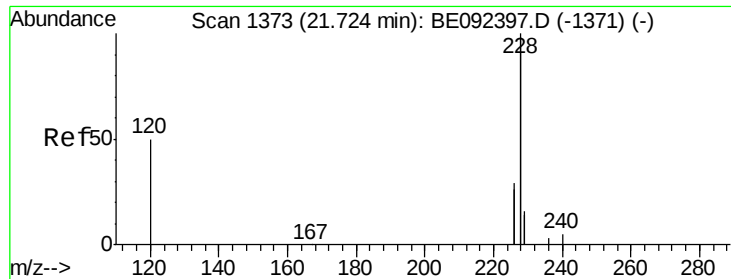


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

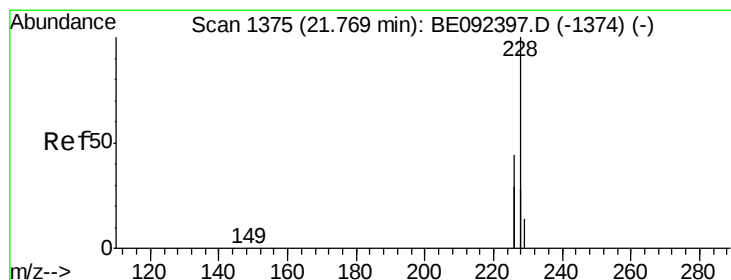
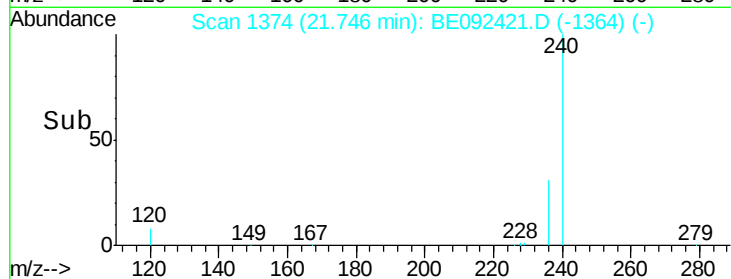
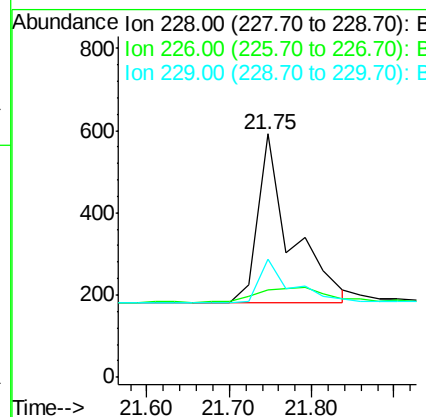
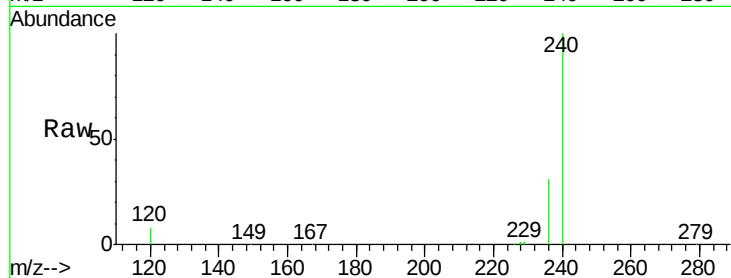




#27  
Benzo(a)anthracene  
Concen: 0.02 ng  
RT: 21.75 min Scan# 1374  
Delta R.T. 0.02 min  
Lab File: BE092421.D  
Acq: 23 Sep 2016 18:35

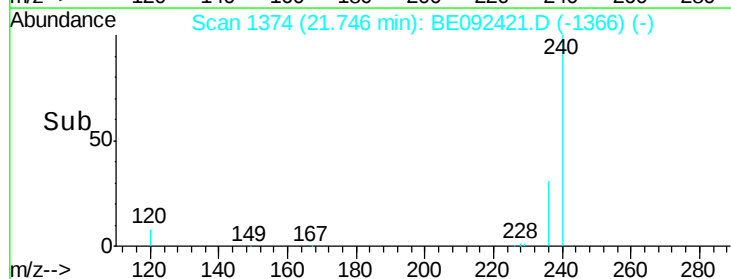
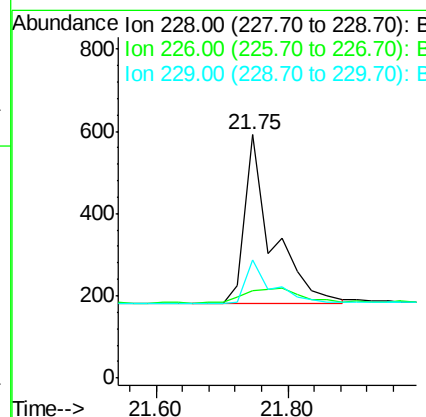
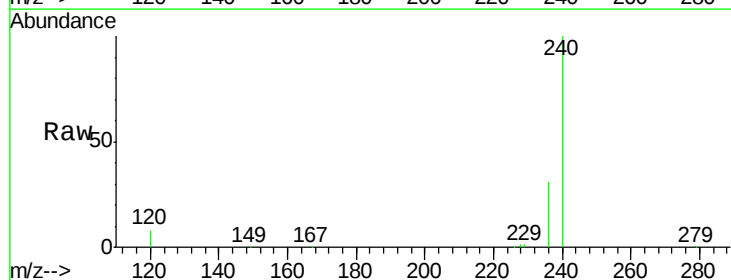
Instrument :  
BNA\_E  
ClientSampleId :  
LOD-WATER2016-05-QT4

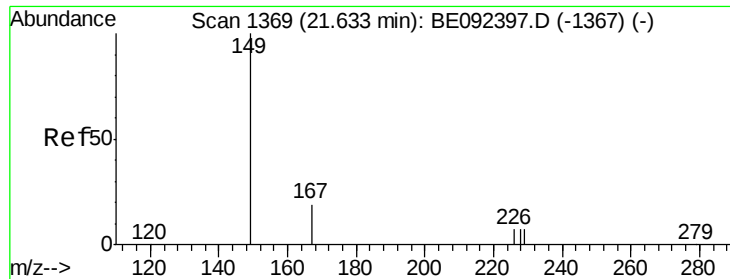
Tgt Ion:228 Resp: 1163  
Ion Ratio Lower Upper  
228 100  
226 36.1 23.6 35.4#  
229 48.6 13.3 19.9#



#28  
Chrysene  
Concen: 0.02 ng  
RT: 21.75 min Scan# 1374  
Delta R.T. -0.02 min  
Lab File: BE092421.D  
Acq: 23 Sep 2016 18:35

Tgt Ion:228 Resp: 1206  
Ion Ratio Lower Upper  
228 100  
226 36.1 36.3 54.5#  
229 48.6 10.6 16.0#

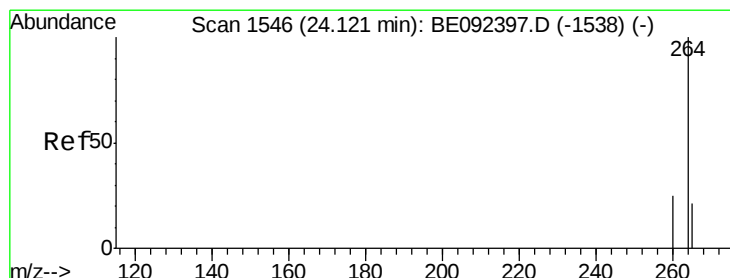
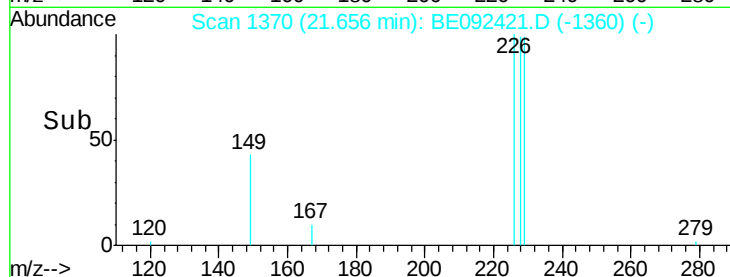
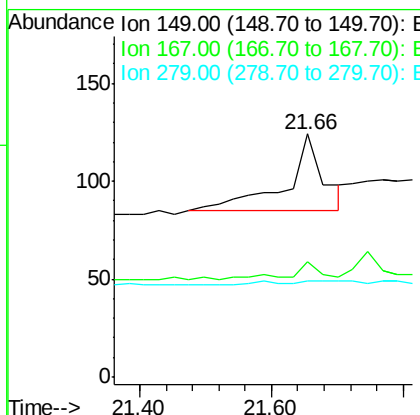
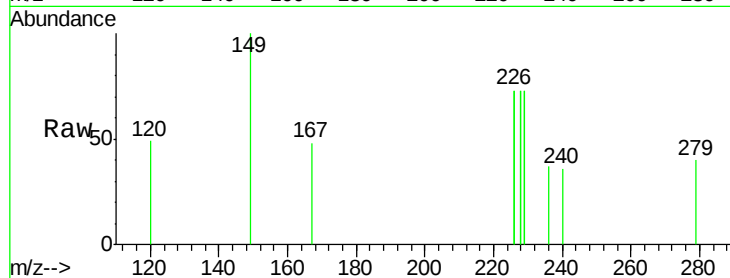




#29  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.03 ng  
 RT: 21.66 min Scan# 1370  
 Delta R.T. 0.02 min  
 Lab File: BE092421.D  
 Acq: 23 Sep 2016 18:35

Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOD-WATER2016-05-QT4

Tgt Ion: 149 Resp: 153  
 Ion Ratio Lower Upper  
 149 100  
 167 17.0 16.0 24.0  
 279 3.3 16.0 24.0#



#31  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 24.12 min Scan# 1546  
 Delta R.T. 0.03 min  
 Lab File: BE092421.D  
 Acq: 23 Sep 2016 18:35

Tgt Ion: 264 Resp: 57528  
 Ion Ratio Lower Upper  
 264 100  
 260 26.1 20.1 30.1  
 265 20.7 17.9 26.9

