

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091918\  
 Data File : BE097565.D  
 Acq On : 20 Sep 2018 7:08  
 Operator : SJ/JU  
 Sample : J4958-19  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 20 07:59:59 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 19 16:26:00 2018  
 Response via : Initial Calibration

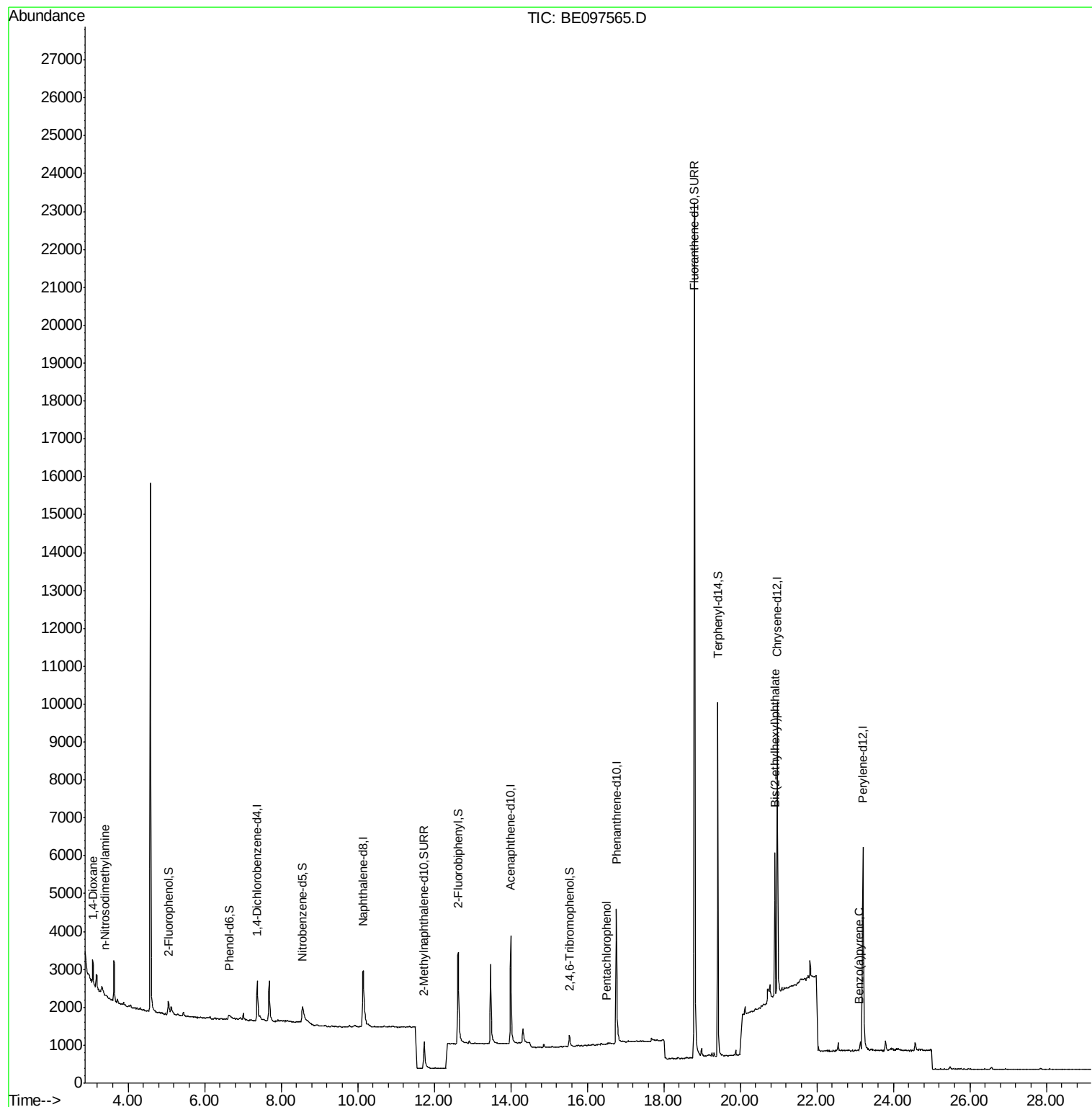
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.38  | 152  | 651      | 0.40  | ng    | 0.00      |
| 7) Naphthalene-d8              | 10.15 | 136  | 3021     | 0.40  | ng    | 0.01      |
| 13) Acenaphthene-d10           | 14.00 | 164  | 1963     | 0.40  | ng    | 0.00      |
| 19) Phenanthrene-d10           | 16.77 | 188  | 6380     | 0.40  | ng    | 0.01      |
| 27) Chrysene-d12               | 20.97 | 240  | 8449     | 0.40  | ng    | 0.00      |
| 34) Perylene-d12               | 23.21 | 264  | 8261     | 0.40  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 4) 2-Fluorophenol              | 5.05  | 112  | 327      | 0.17  | ng    | 0.01      |
| 5) Phenol-d6                   | 6.64  | 99   | 134      | 0.05  | ng    | 0.05      |
| 8) Nitrobenzene-d5             | 8.55  | 82   | 815      | 0.35  | ng    | 0.03      |
| 11) 2-Methylnaphthalene-d10    | 11.73 | 152  | 1740     | 0.42  | ng    | 0.01      |
| 14) 2,4,6-Tribromophenol       | 15.53 | 330  | 238      | 0.34  | ng    | 0.00      |
| 15) 2-Fluorobiphenyl           | 12.63 | 172  | 3544     | 0.51  | ng    | 0.00      |
| 25) Fluoranthene-d10           | 18.80 | 212  | 34586    | 0.42  | ng    | 0.00      |
| 29) Terphenyl-d14              | 19.41 | 244  | 8658     | 0.56  | ng    | 0.00      |
| Target Compounds               |       |      |          |       |       |           |
| 2) 1,4-Dioxane                 | 3.08  | 88   | 422      | 0.377 | ng    | Qvalue 92 |
| 3) n-Nitrosodimethylamine      | 3.39  | 42   | 17       | 0.034 | ng    | # 28      |
| 22) Pentachlorophenol          | 16.50 | 266  | 16       | 0.141 | ng    | 93        |
| 32) Bis(2-ethylhexyl)phthalate | 20.91 | 149  | 4818     | 0.145 | ng    | # 100     |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 3        | 0.021 | ng    | # 1       |

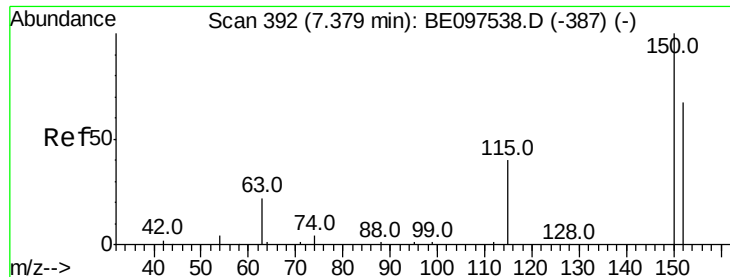
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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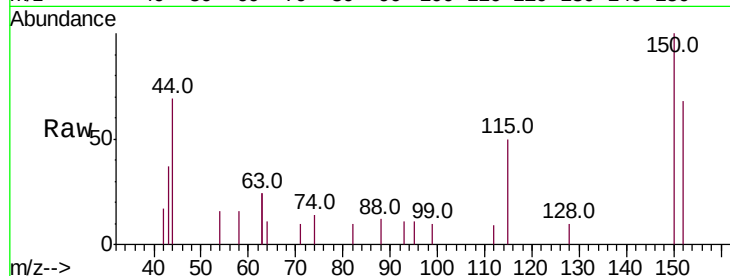


#1

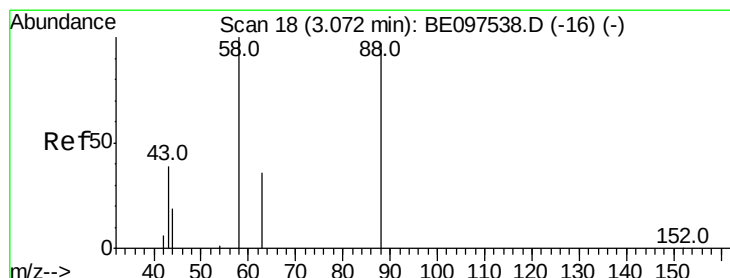
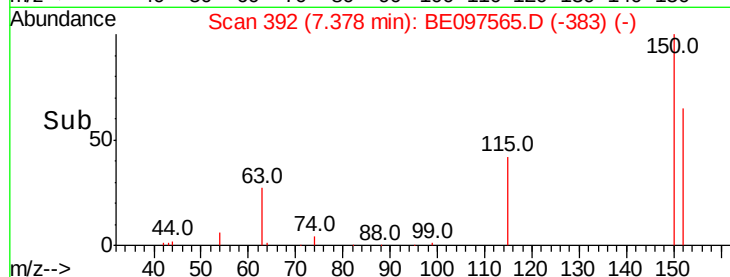
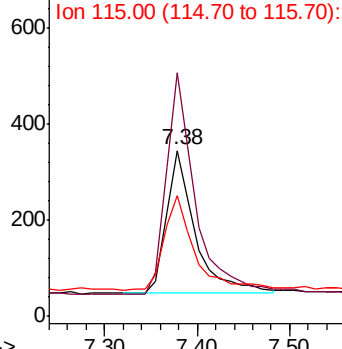
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.38 min Scan# 392  
Delta R.T. -0.00 min  
Lab File: BE097565.D  
Acq: 20 Sep 2018 7:08

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 651  
Ion Ratio Lower Upper  
152 100  
150 146.5 117.2 175.8  
115 72.5 57.0 85.6



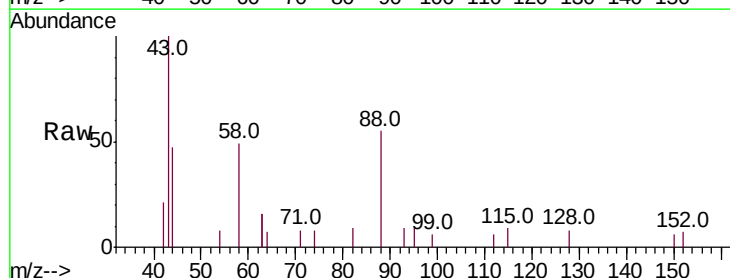
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



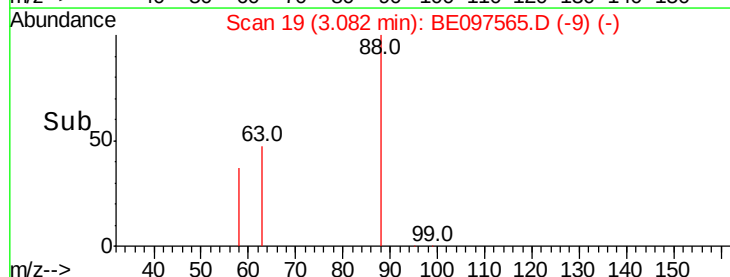
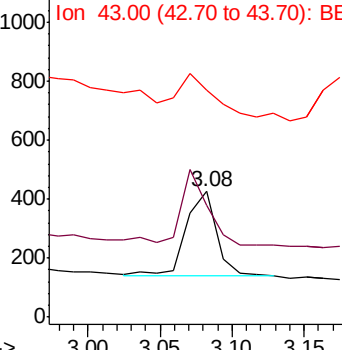
#2

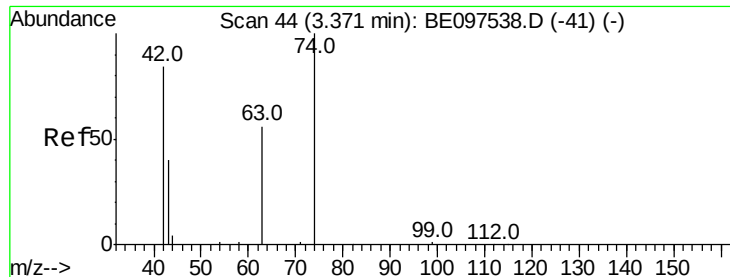
1,4-Dioxane  
Concen: 0.377 ng  
RT: 3.08 min Scan# 19  
Delta R.T. 0.01 min  
Lab File: BE097565.D  
Acq: 20 Sep 2018 7:08

Tgt Ion: 88 Resp: 422  
Ion Ratio Lower Upper  
88 100  
58 73.5 63.2 94.8  
43 59.2 41.2 61.8



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: 0.034 ng

RT: 3.39 min Scan# 46

Delta R.T. 0.02 min

Lab File: BE097565.D

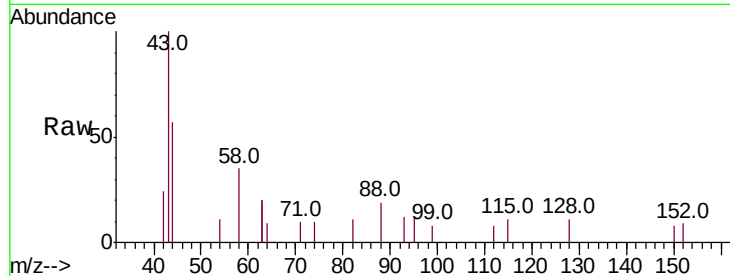
Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampleId :

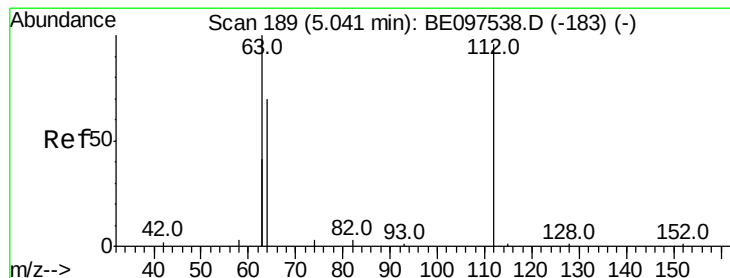
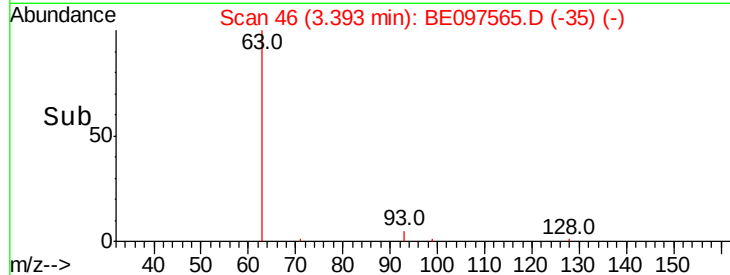
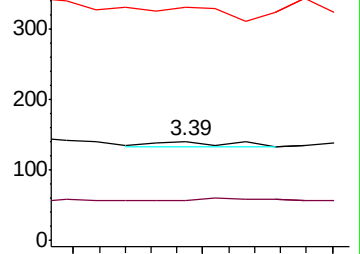
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 17     |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 74       | 35.3  | 96.0  | 144.0# |
| 44       | 0.0   | 12.0  | 18.0#  |



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: 0.168 ng

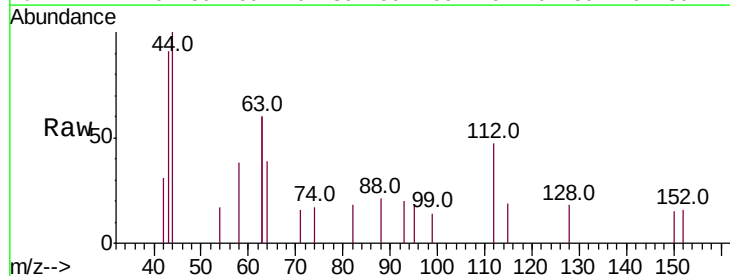
RT: 5.05 min Scan# 190

Delta R.T. 0.01 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

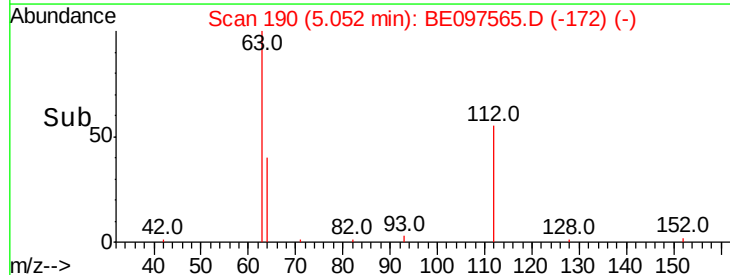
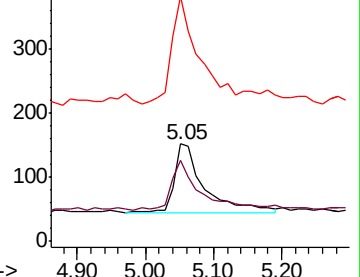
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 327   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 68.8  | 60.1  | 90.1  |
| 63       | 147.1 | 116.8 | 175.2 |

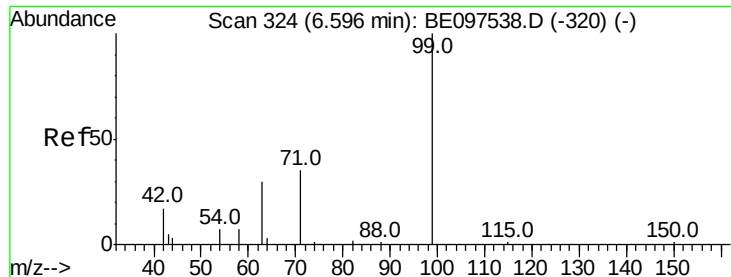


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.054 ng

RT: 6.64 min Scan# 328

Delta R.T. 0.05 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampleId :

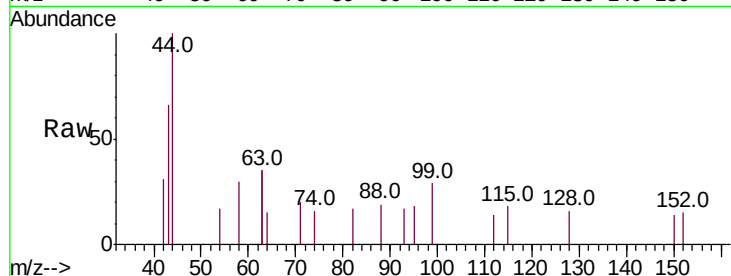
Tot Ion: 99 Resp: 134

Ion Ratio Lower Upper

99 100

42 0.0 20.2 30.2#

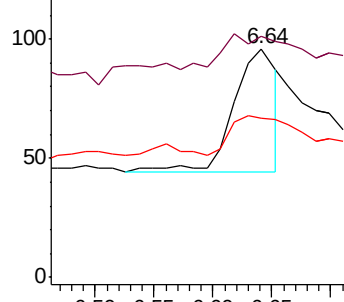
71 33.6 28.4 42.6



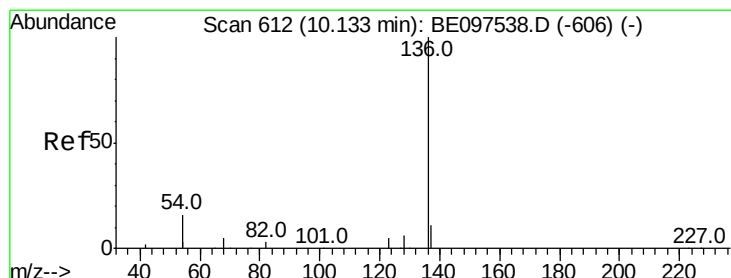
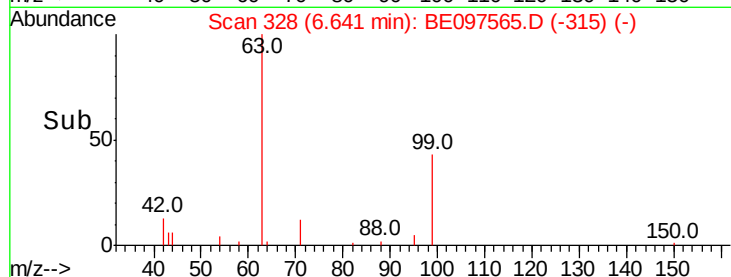
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.01 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Tgt Ion: 136 Resp: 3021

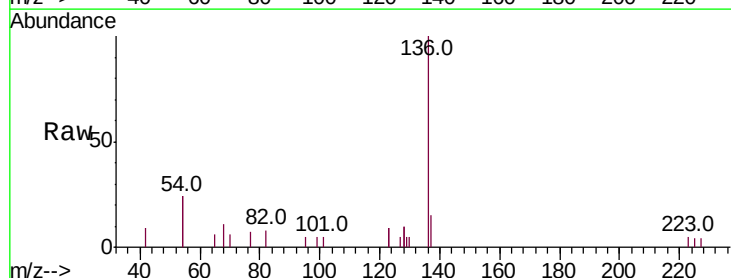
Ion Ratio Lower Upper

136 100

137 15.1 9.5 14.3#

54 48.4 29.1 43.7#

68 10.7 6.2 9.2#

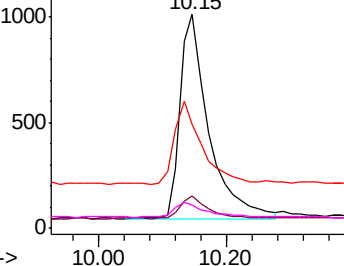


Abundance Ion 136.00 (135.70 to 136.70): E

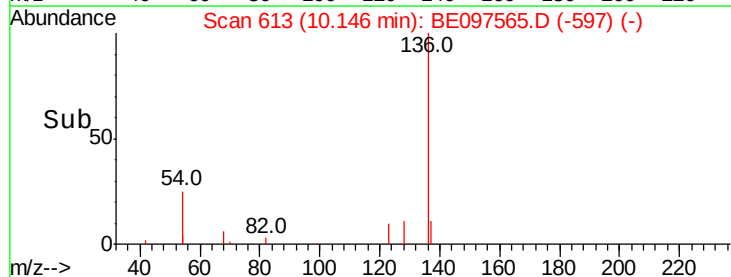
Ion 137.00 (136.70 to 137.70): E

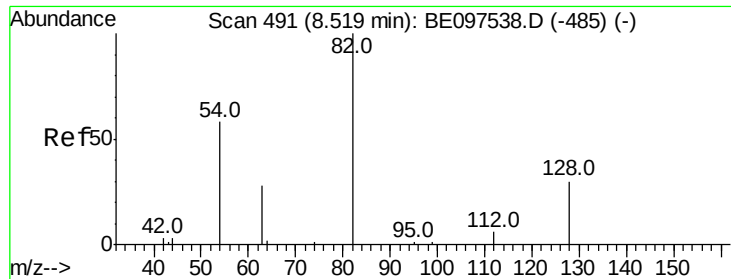
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->





#8

Nitrobenzene-d5

Concen: 0.349 ng

RT: 8.55 min Scan# 494

Delta R.T. 0.03 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampleId :

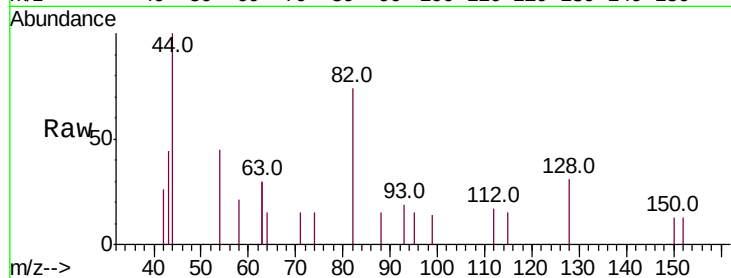
Tot Ion: 82 Resp: 815

Ion Ratio Lower Upper

82 100

128 42.6 24.0 36.0#

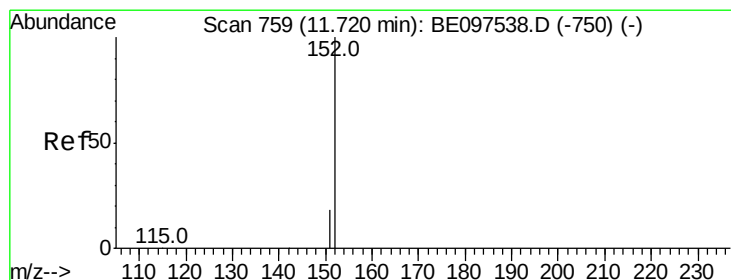
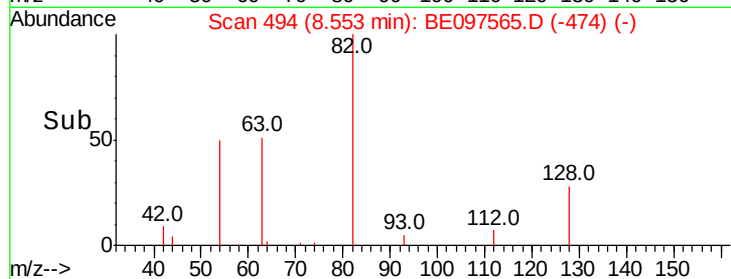
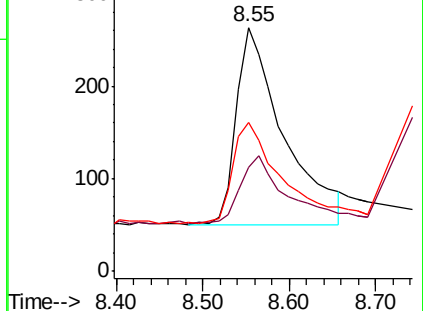
54 60.8 40.0 60.0#



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



#11

2-Methylnaphthalene-d10

Concen: 0.418 ng

RT: 11.73 min Scan# 762

Delta R.T. 0.01 min

Lab File: BE097565.D

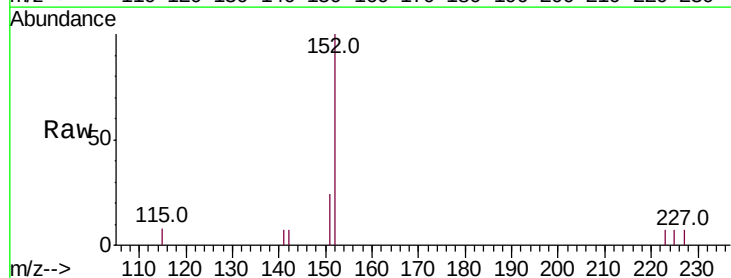
Acq: 20 Sep 2018 7:08

Tgt Ion: 152 Resp: 1740

Ion Ratio Lower Upper

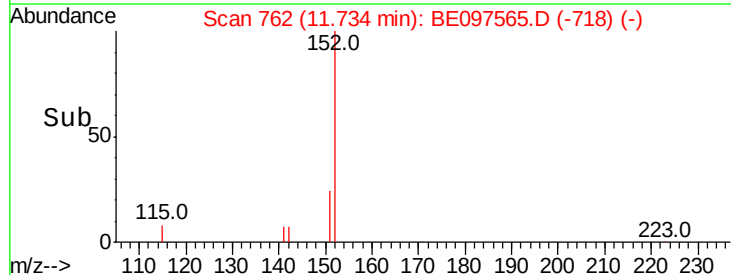
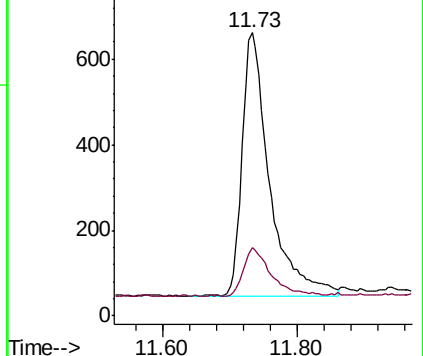
152 100

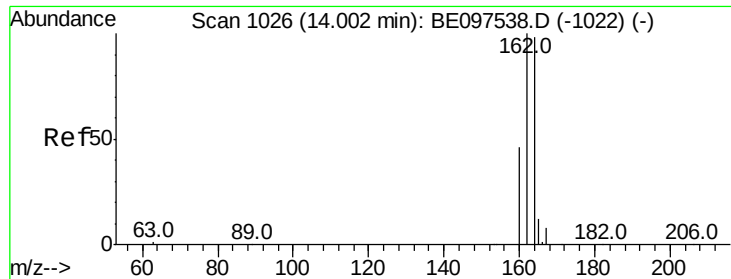
151 18.7 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.00 min Scan# 1027

Delta R.T. 0.00 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampleId :

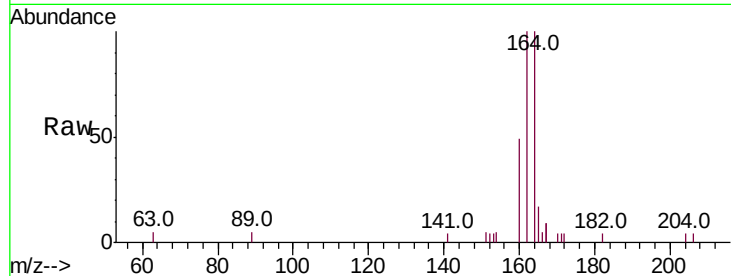
Tot Ion:164 Resp: 1963

Ion Ratio Lower Upper

164 100

162 100.1 83.1 124.7

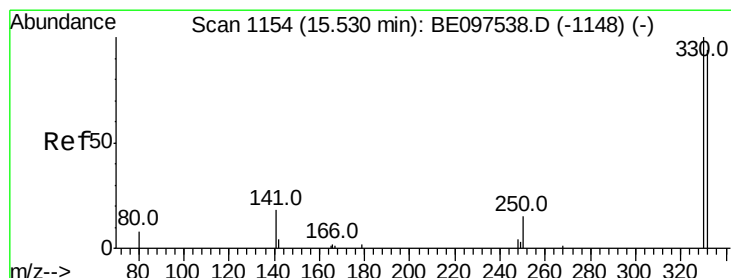
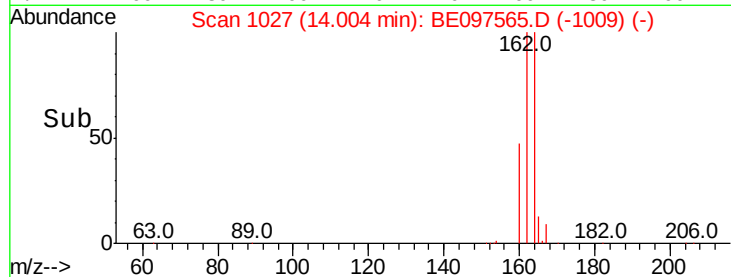
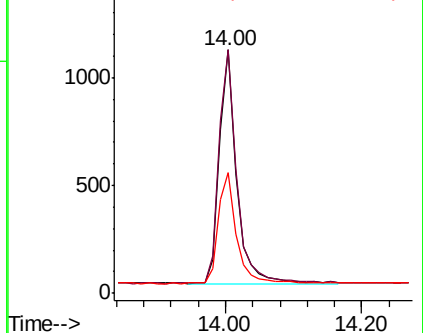
160 49.4 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.344 ng

RT: 15.53 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

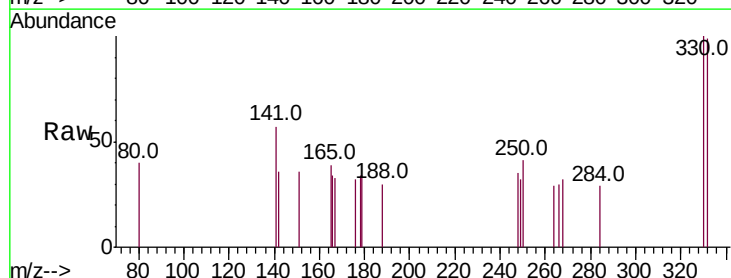
Tgt Ion:330 Resp: 238

Ion Ratio Lower Upper

330 100

332 100.4 152.7 229.1#

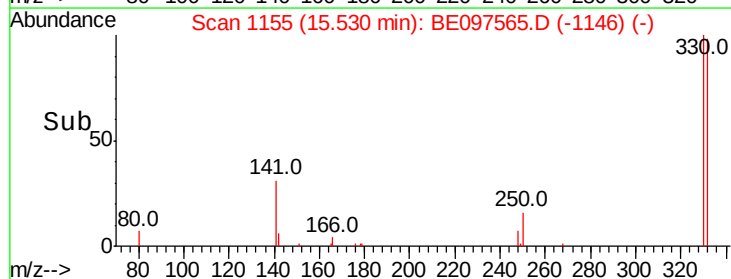
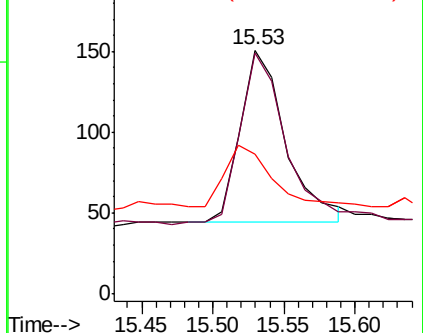
141 35.7 33.7 50.5

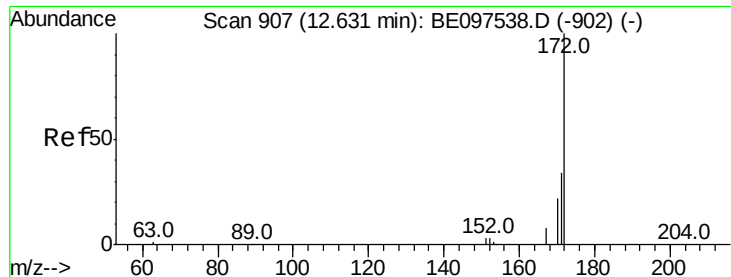


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

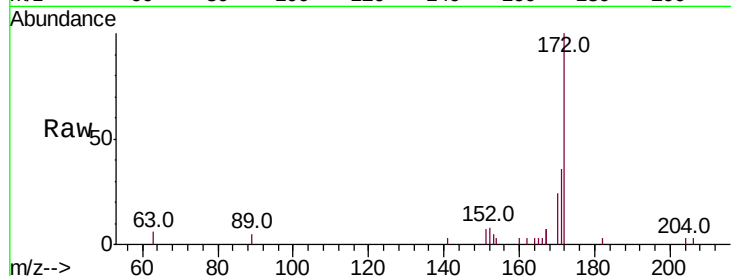




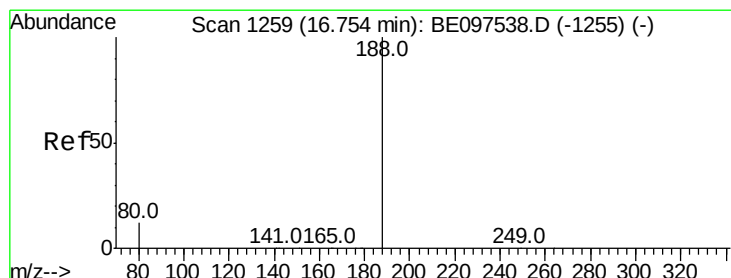
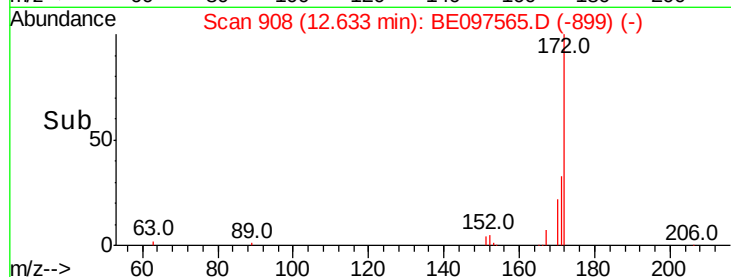
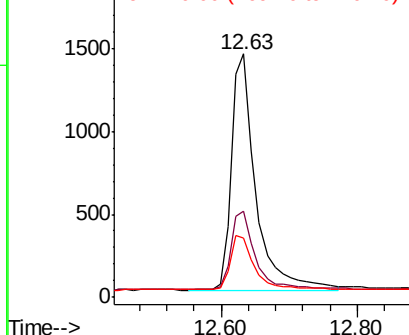
#15  
2-Fluorobiphenyl  
Concen: 0.511 ng  
RT: 12.63 min Scan# 908  
Delta R.T. 0.00 min  
Lab File: BE097565.D  
Acq: 20 Sep 2018 7:08

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 3544  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.9 44.9  
170 24.4 21.8 32.8

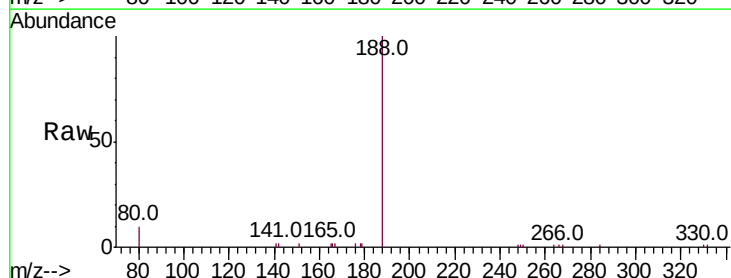


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

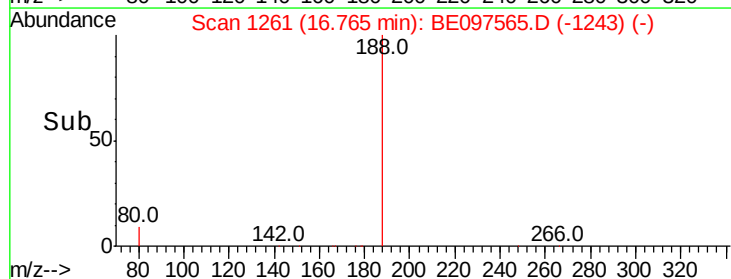
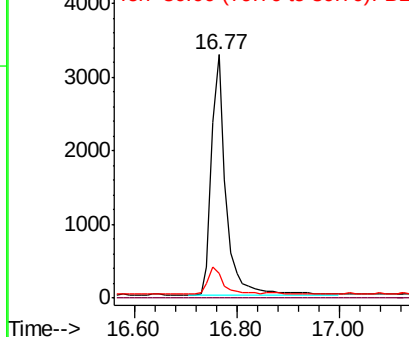


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.77 min Scan# 1261  
Delta R.T. 0.01 min  
Lab File: BE097565.D  
Acq: 20 Sep 2018 7:08

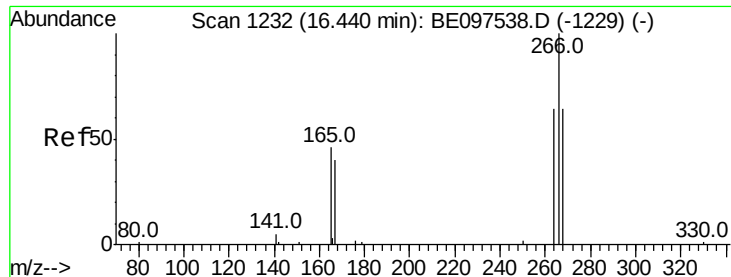
Tgt Ion:188 Resp: 6380  
Ion Ratio Lower Upper  
188 100  
94 0.0 3.9 5.9#  
80 10.4 3.6 5.4#



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







#22

Pentachlorophenol

Concen: 0.141 ng

RT: 16.50 min Scan# 1238

Delta R.T. 0.06 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampled :

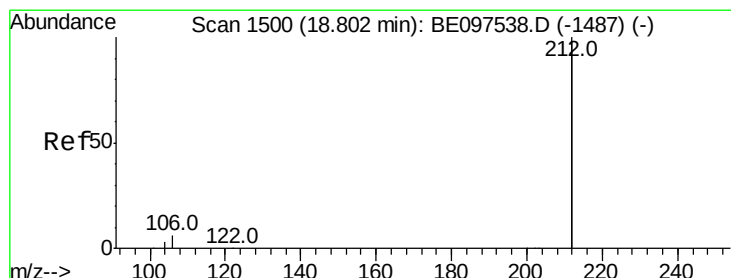
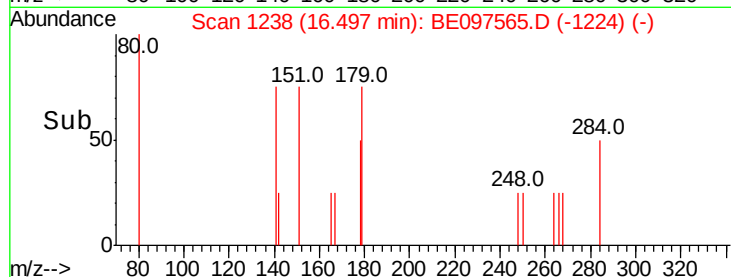
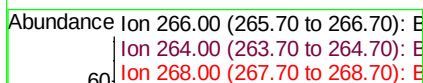
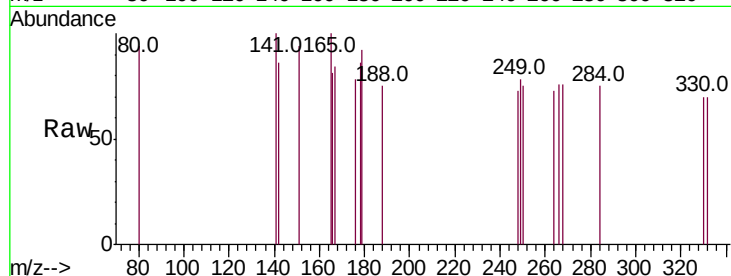
Tot Ion:266 Resp: 16

Ion Ratio Lower Upper

266 100

264 95.8 72.5 108.7

268 100.0 73.8 110.6



#25

Fluoranthene-d10

Concen: 0.423 ng

RT: 18.80 min Scan# 1501

Delta R.T. -0.00 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

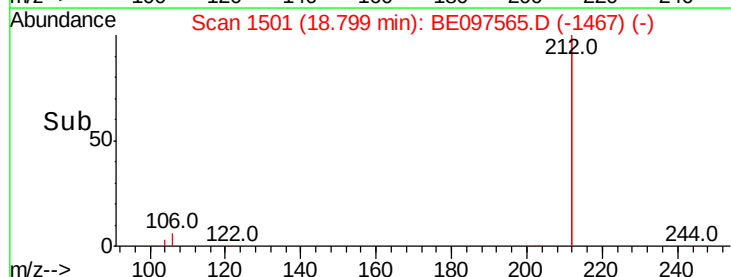
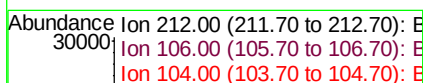
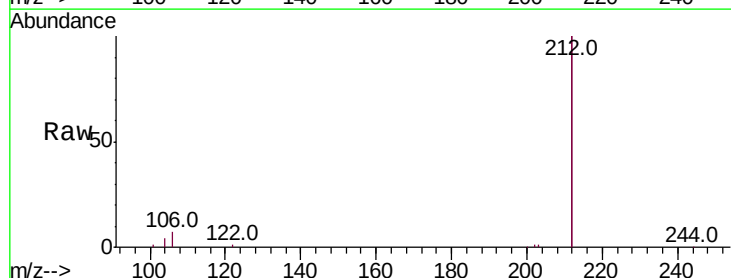
Tgt Ion:212 Resp: 34586

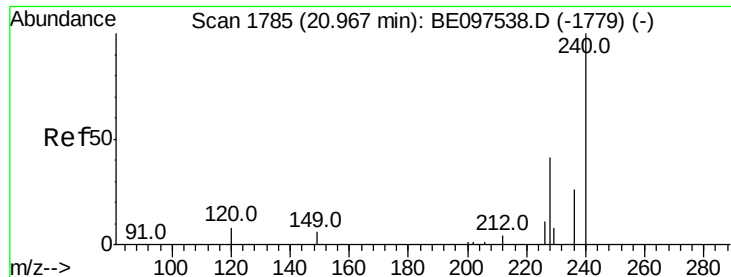
Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

104 1.8 1.6 2.4





#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.97 min Scan# 1787

Delta R.T. -0.00 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampleId :

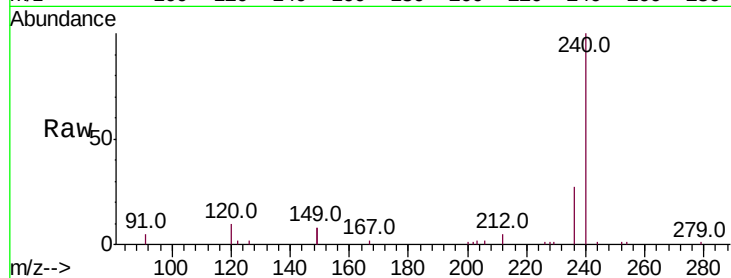
Tot Ion:240 Resp: 8449

Ion Ratio Lower Upper

240 100

120 10.2 5.5 8.3#

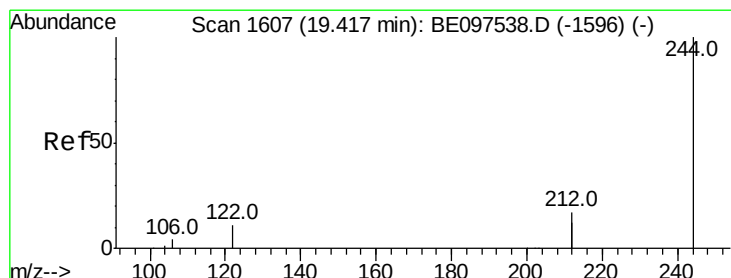
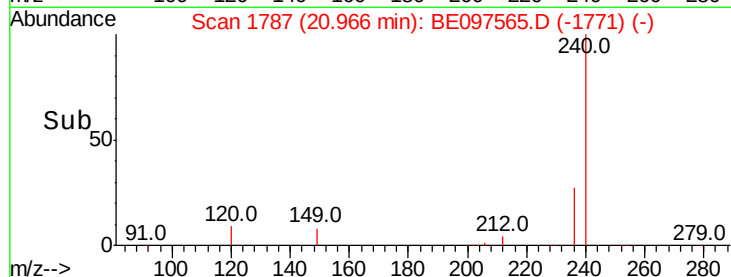
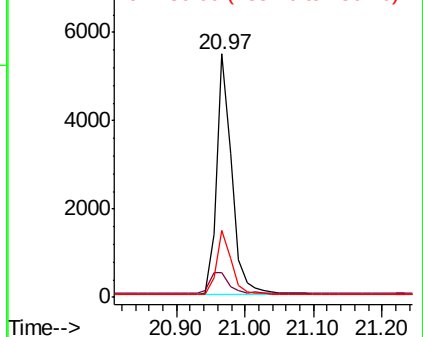
236 27.5 20.7 31.1



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



#29

Terphenyl-d14

Concen: 0.560 ng

RT: 19.41 min Scan# 1608

Delta R.T. -0.00 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

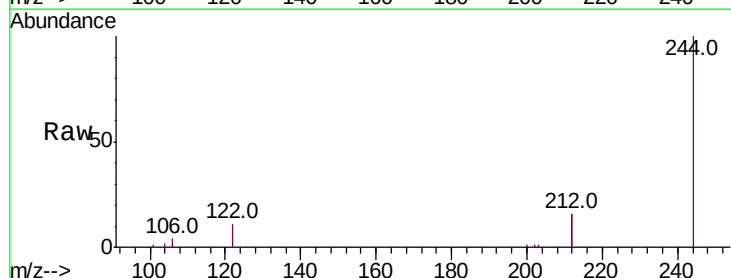
Tgt Ion:244 Resp: 8658

Ion Ratio Lower Upper

244 100

212 31.2 25.4 38.0

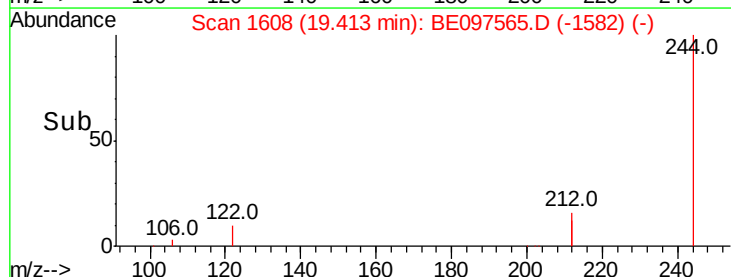
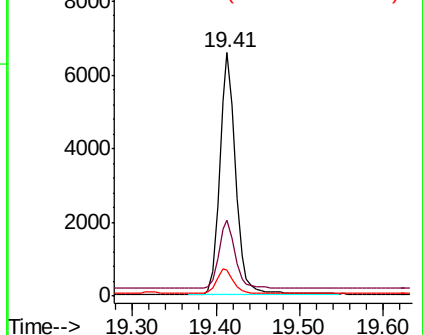
122 10.6 8.1 12.1

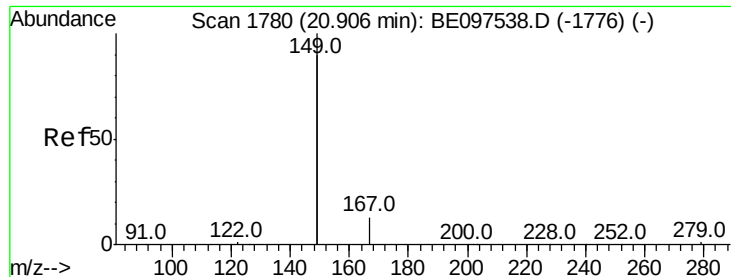


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.145 ng

RT: 20.91 min Scan# 1782

Delta R.T. -0.00 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampleId :

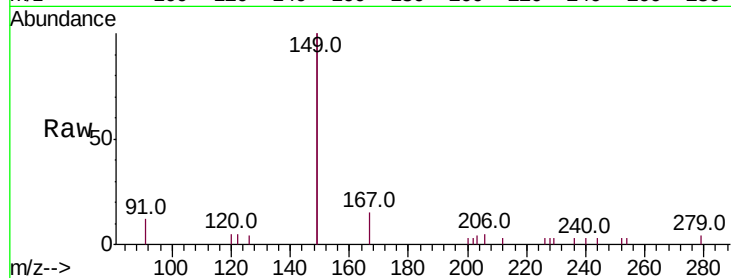
Tot Ion:149 Resp: 4818

Ion Ratio Lower Upper

149 100

167 6.8 5.4 8.0

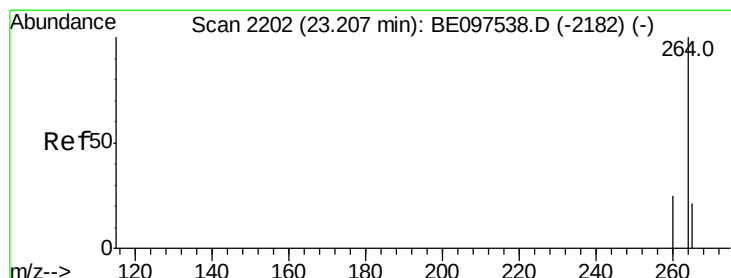
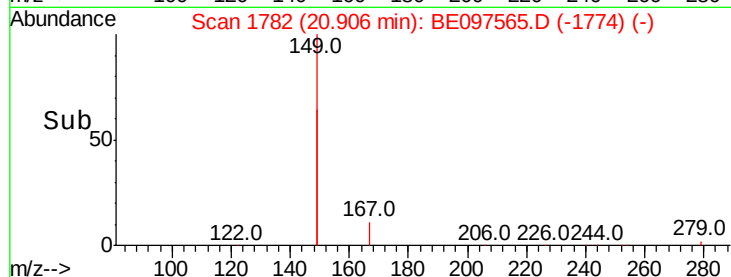
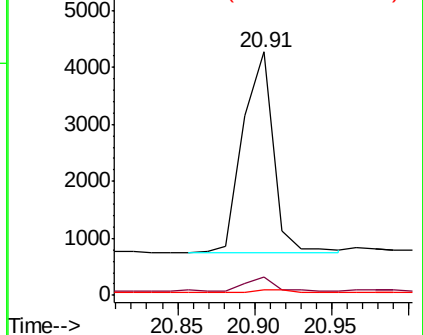
279 1.2 0.7 1.1#



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: 0.400 ng

RT: 23.21 min Scan# 2204

Delta R.T. -0.00 min

Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

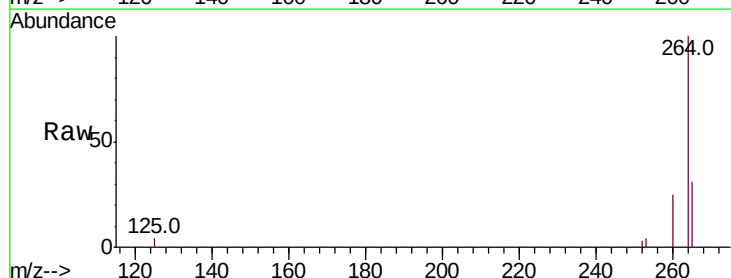
Tgt Ion:264 Resp: 8261

Ion Ratio Lower Upper

264 100

260 25.1 20.5 30.7

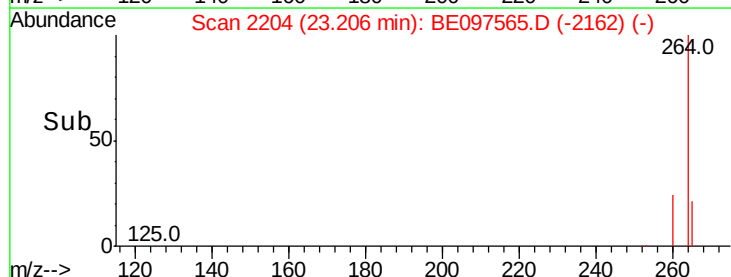
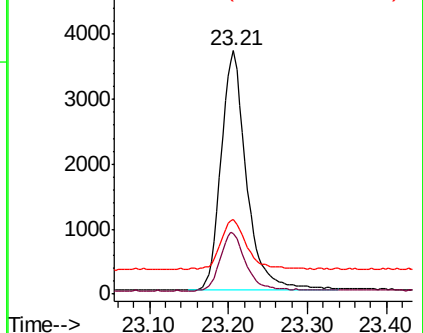
265 30.6 22.8 34.2

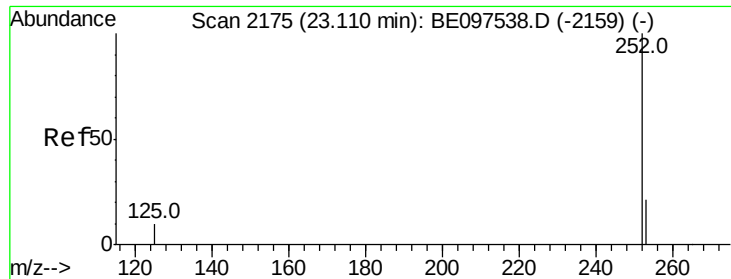


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#37

Benzo(a)pyrene

Concen: 0.021 ng

RT: 23.11 min Scan# 2177

Delta R.T. 0.00 min

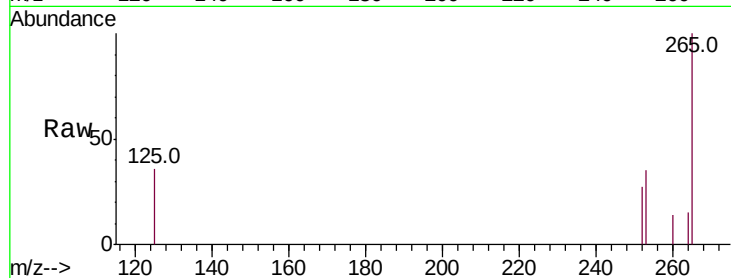
Lab File: BE097565.D

Acq: 20 Sep 2018 7:08

Instrument :

BNA\_E

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 252   | Resp: | 3     |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 131.1 | 16.0  | 24.0# |
| 125      | 135.0 | 12.0  | 18.0# |

