

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072318\  
 Data File : BE097057.D  
 Acq On : 24 Jul 2018 4:29  
 Operator : SJ/JU  
 Sample : J4073-16  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE108D1-071718

Quant Time: Jul 24 06:50:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 11:34:20 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 1352     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 6234     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.01 | 164  | 3859     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.77 | 188  | 11726    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.98 | 240  | 11782    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 11240    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.05  | 112  | 795      | 0.25 | ng    | 0.00     |
| 5) Phenol-d6                | 6.60  | 99   | 712      | 0.14 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.52  | 82   | 2887     | 0.63 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.73 | 152  | 4583     | 0.50 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330  | 661      | 0.70 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.63 | 172  | 8134     | 0.57 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.81 | 212  | 68857    | 0.67 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.43 | 244  | 14332    | 0.63 | ng    | 0.00     |

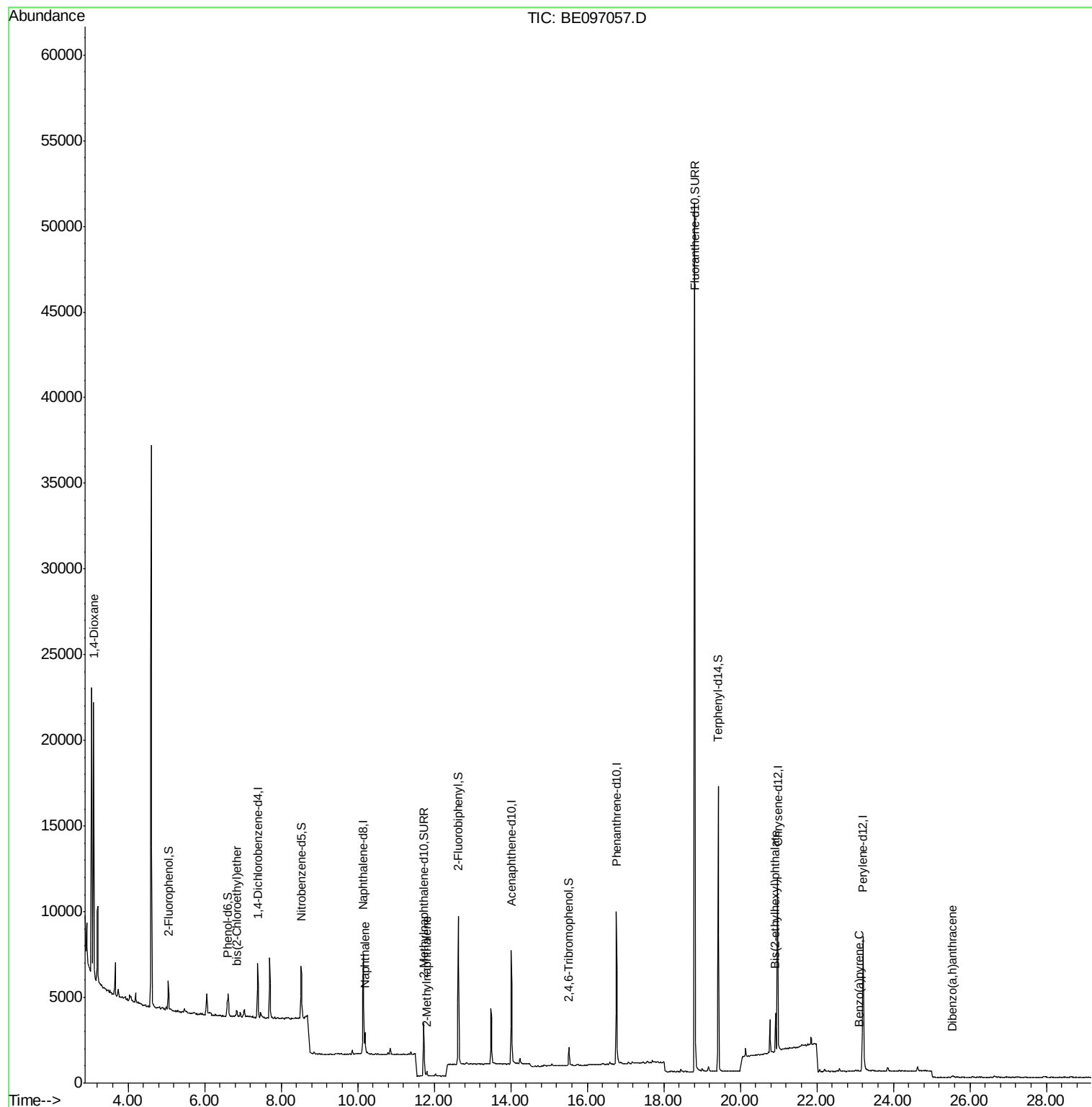
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.10  | 88   | 8398     | 4.339     | ng    | # 87   |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 102      | 0.021     | ng    | # 85   |
| 9) Naphthalene                 | 10.20 | 128  | 2100     | 0.038     | ng    | # 91   |
| 12) 2-Methylnaphthalene        | 11.81 | 142  | 207      | 0.022     | ng    | # 87   |
| 22) Pentachlorophenol          | 16.40 | 266  | 3        | Below Cal |       | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149  | 2964     | 0.106     | ng    | # 99   |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 6        | 0.101     | ng    | # 1    |
| 38) Dibenzo(a,h)anthracene     | 25.54 | 278  | 4        | 0.118     | ng    | # 1    |

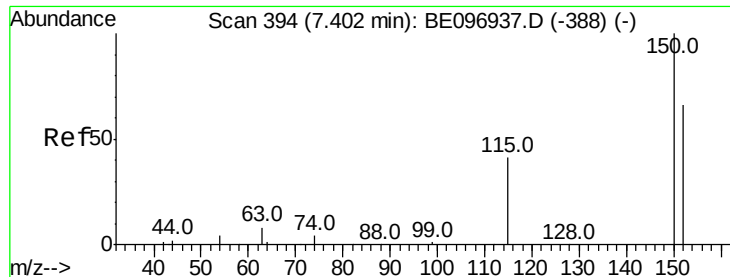
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 20 11:34:20 2018  
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.39 min Scan# 393

Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Instrument :

BNA\_E

ClientSampleId :

RE108D1-071718

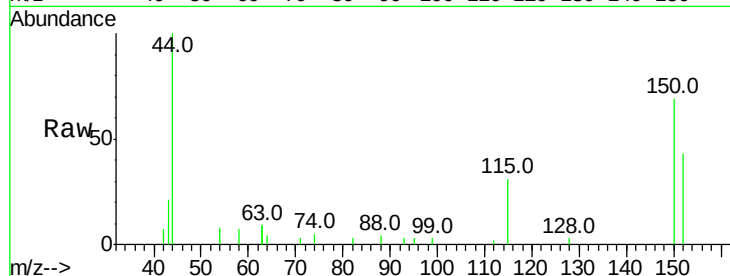
Tot Ion:152 Resp: 1352

Ion Ratio Lower Upper

152 100

150 158.5 117.2 175.8

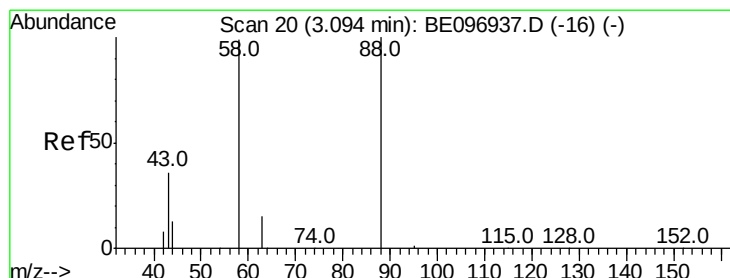
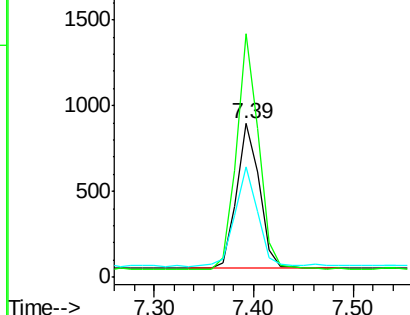
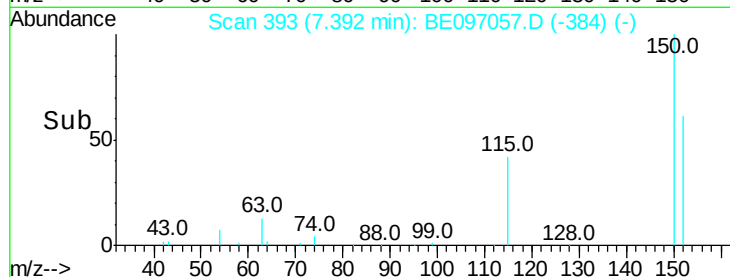
115 72.3 57.0 85.6



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: 4.339 ng

RT: 3.10 min Scan# 20

Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

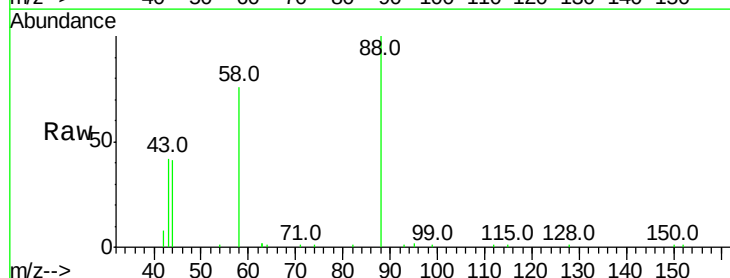
Tgt Ion: 88 Resp: 8398

Ion Ratio Lower Upper

88 100

58 84.8 63.2 94.8

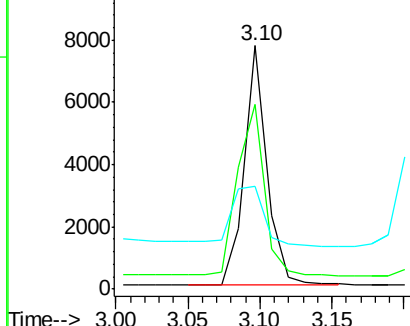
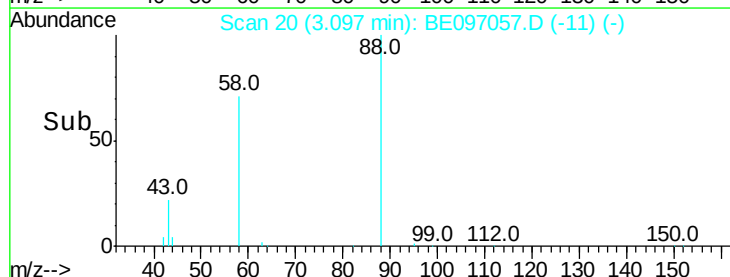
43 36.4 41.2 61.8#

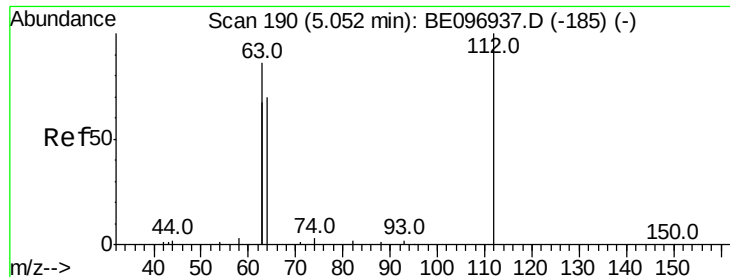


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.246 ng

RT: 5.05 min Scan# 190

Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Instrument :

BNA\_E

ClientSampleId :

RE108D1-071718

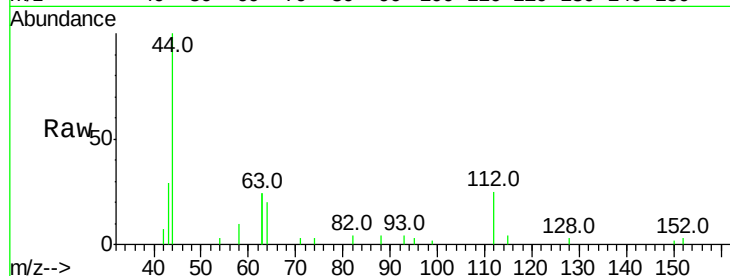
Tot Ion:112 Resp: 795

Ion Ratio Lower Upper

112 100

64 70.1 60.1 90.1

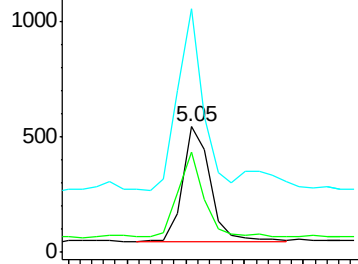
63 146.9 116.8 175.2



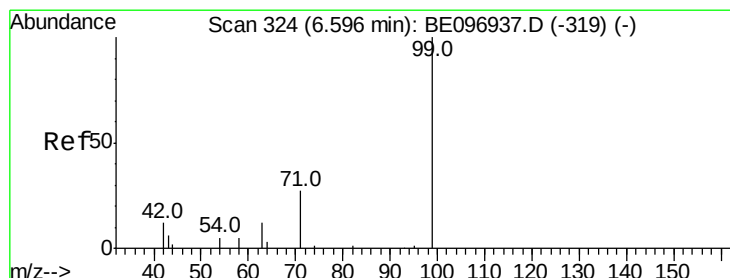
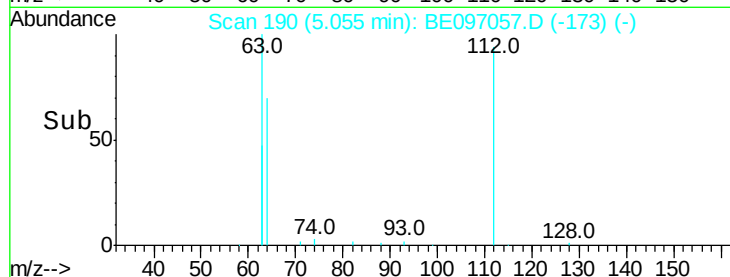
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time--> 4.95 5.00 5.05 5.10 5.15



#5

Phenol-d6

Concen: 0.144 ng

RT: 6.60 min Scan# 324

Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

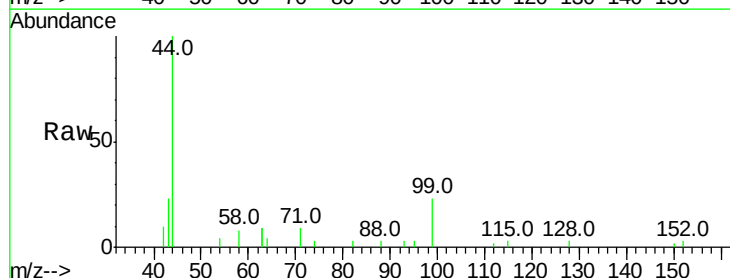
Tgt Ion: 99 Resp: 712

Ion Ratio Lower Upper

99 100

42 31.9 20.2 30.2#

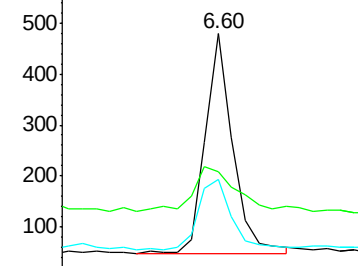
71 38.3 28.4 42.6



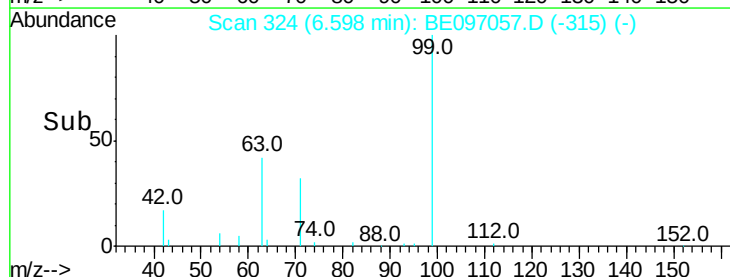
Abundance Ion 99.00 (98.70 to 99.70): BE0

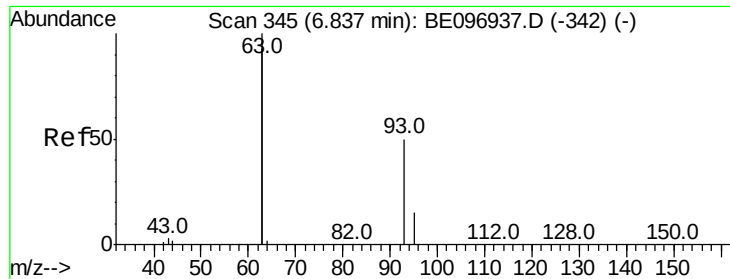
Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time--> 6.50 6.55 6.60 6.65 6.70





#6

bis(2-Chloroethyl)ether

Concen: 0.021 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Instrument :

BNA\_E

ClientSampleId :

RE108D1-071718

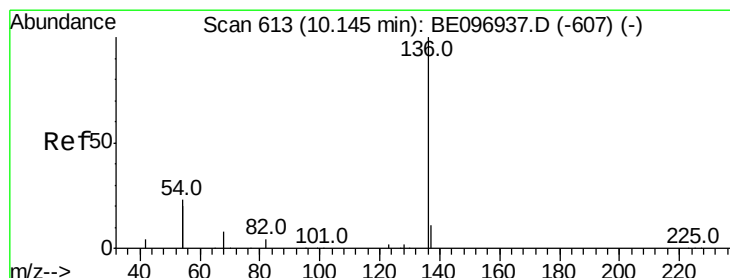
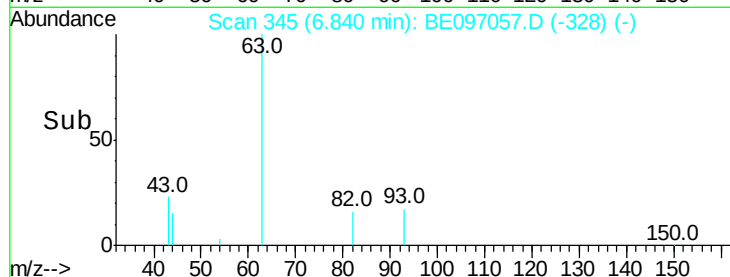
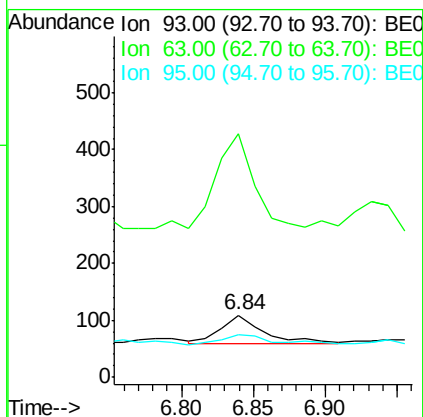
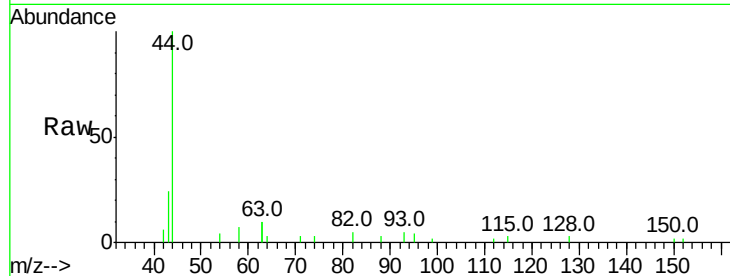
Tot Ion: 93 Resp: 102

Ion Ratio Lower Upper

93 100

63 311.8 275.3 412.9

95 40.2 25.2 37.8#



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. -0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Tgt Ion: 136 Resp: 6234

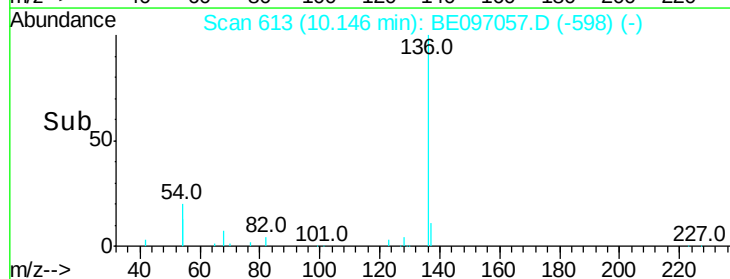
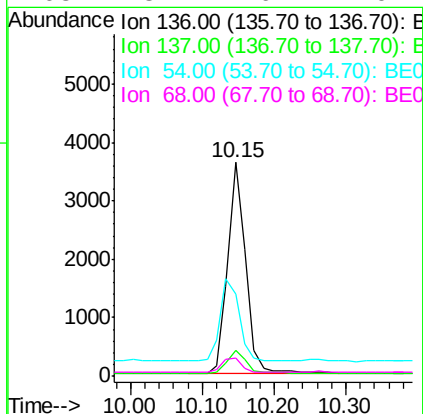
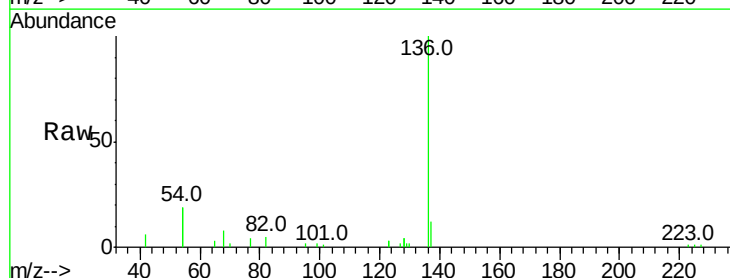
Ion Ratio Lower Upper

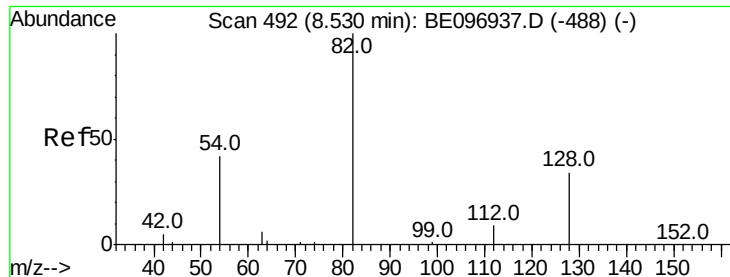
136 100

137 12.2 9.5 14.3

54 38.6 29.1 43.7

68 8.2 6.2 9.2





#8

Nitrobenzene-d5

Concen: 0.635 ng

RT: 8.52 min Scan# 491

Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Instrument :

BNA\_E

ClientSampleId :

RE108D1-071718

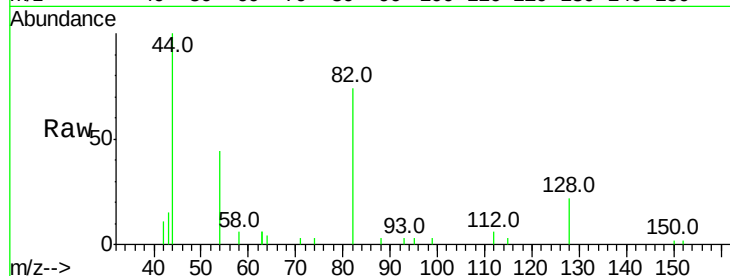
Tot Ion: 82 Resp: 2887

Ion Ratio Lower Upper

82 100

128 29.1 24.0 36.0

54 58.6 40.0 60.0



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

8.52

1500

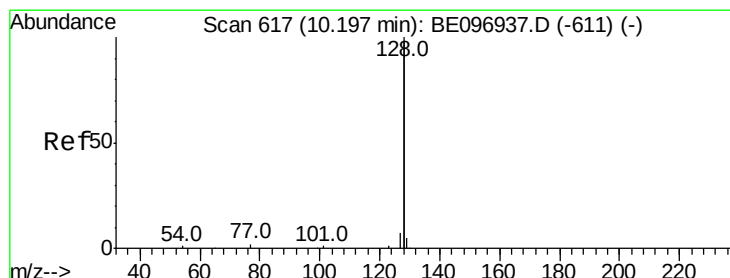
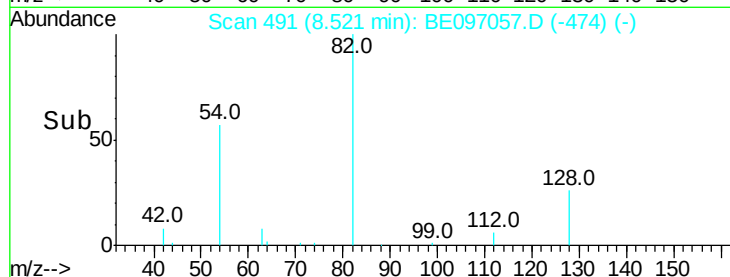
1000

500

0

8.40 8.50 8.60 8.70

Time-->



#9

Naphthalene

Concen: 0.038 ng

RT: 10.20 min Scan# 617

Delta R.T. -0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

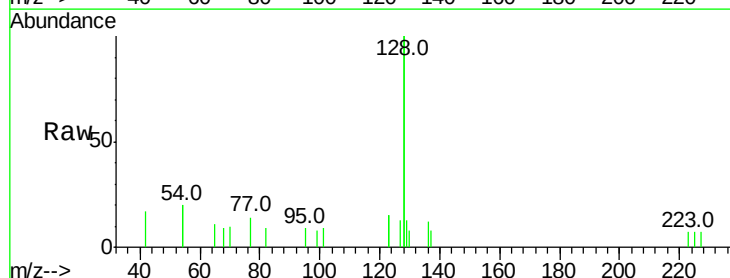
Tgt Ion: 128 Resp: 2100

Ion Ratio Lower Upper

128 100

129 6.6 2.6 3.8#

127 6.4 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0

10.20

1500

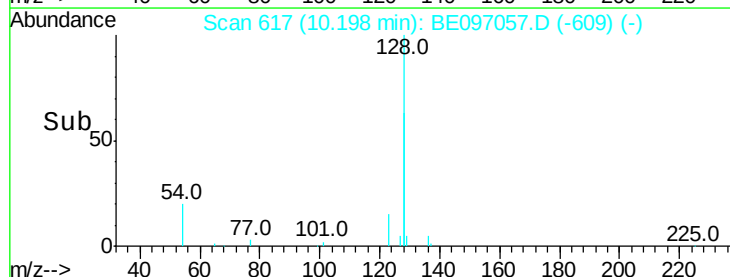
1000

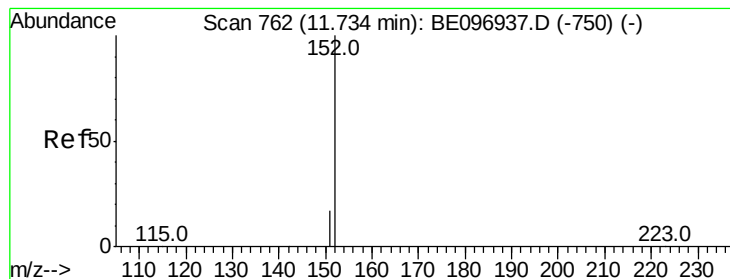
500

0

10.10 10.20 10.30

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.504 ng

RT: 11.73 min Scan# 761

Delta R.T. -0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Instrument :

BNA\_E

ClientSampleId :

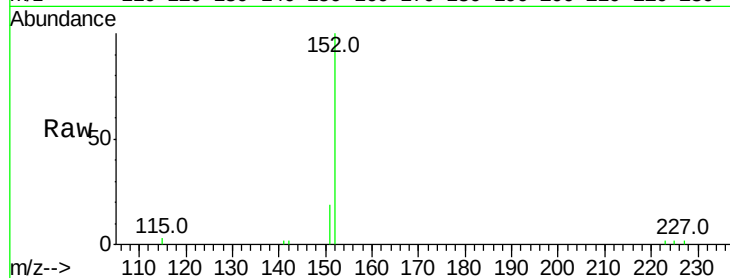
RE108D1-071718

Tot Ion:152 Resp: 4583

Ion Ratio Lower Upper

152 100

151 20.6 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

3000

2500

2000

1500

1000

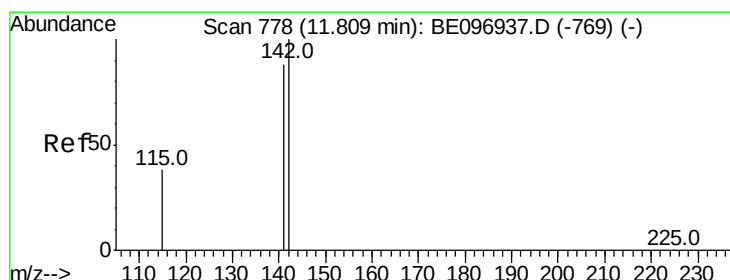
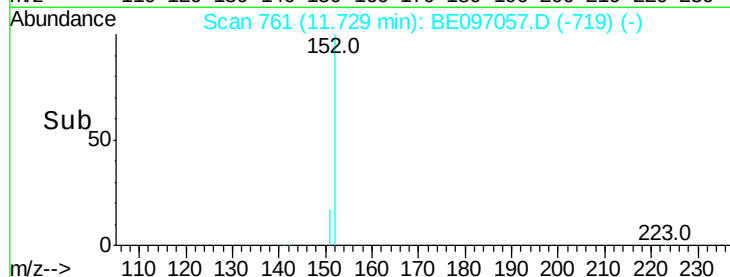
500

0

11.73

11.70 11.80 11.90

Time-->



#12

2-Methylnaphthalene

Concen: 0.022 ng

RT: 11.81 min Scan# 778

Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

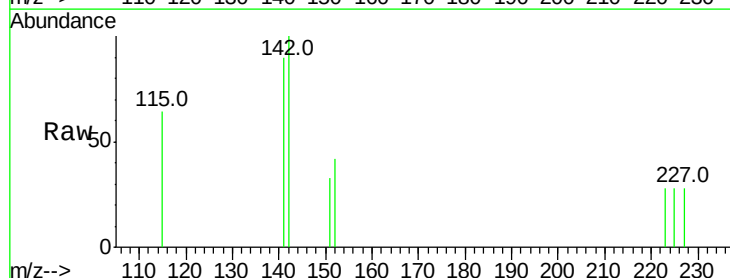
Tgt Ion:142 Resp: 207

Ion Ratio Lower Upper

142 100

141 89.7 70.4 105.6

115 63.6 31.7 47.5#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

200

150

100

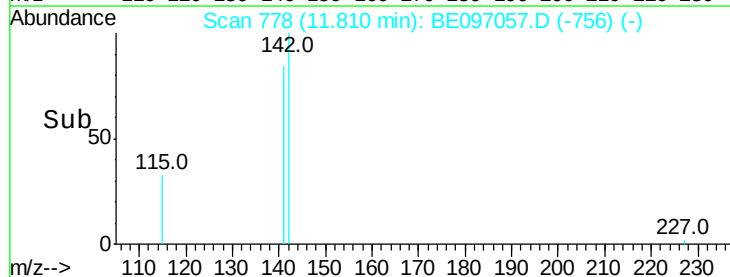
50

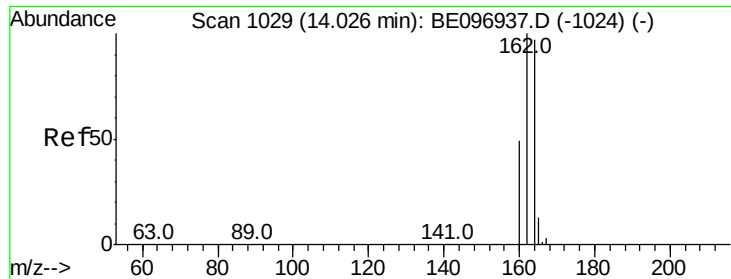
0

11.81

11.75 11.85

Time-->

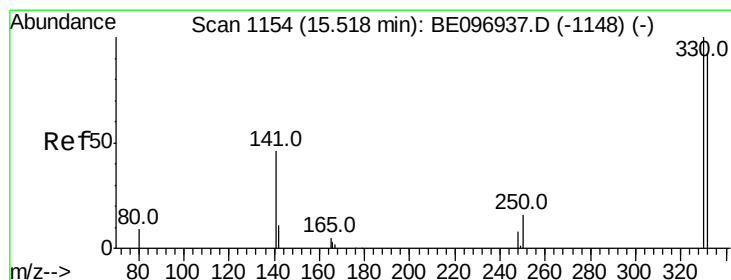
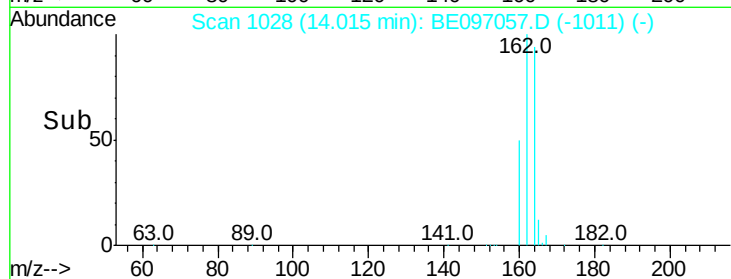
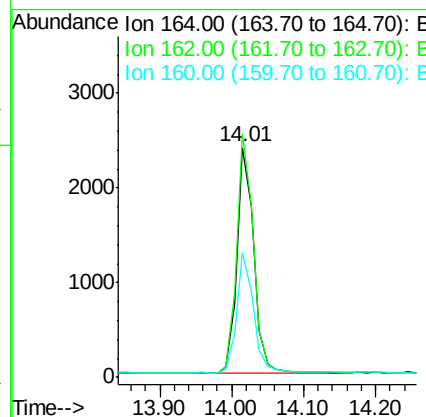
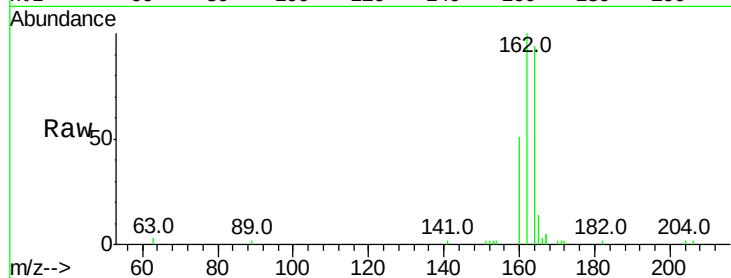




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.01 min Scan# 1028  
 Delta R.T. 0.00 min  
 Lab File: BE097057.D  
 Acq: 24 Jul 2018 4:29

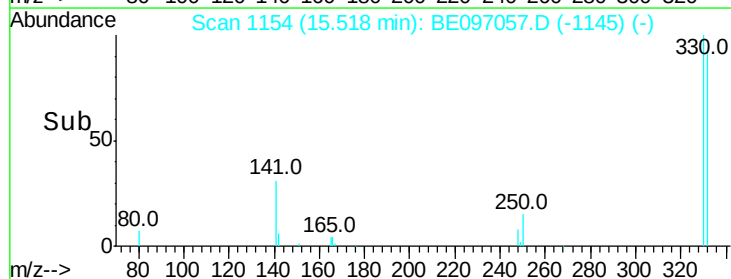
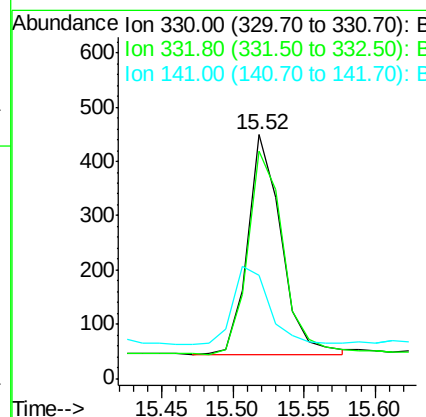
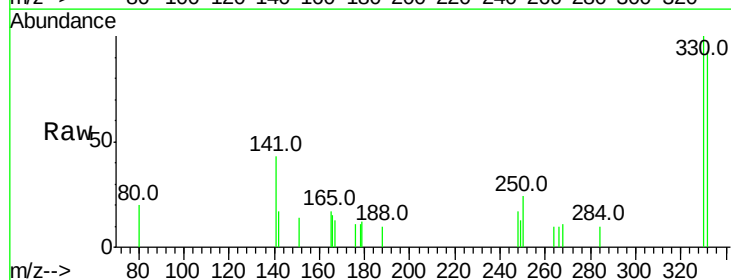
Instrument :  
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 RE108D1-071718

Tot Ion:164 Resp: 3859  
 Ion Ratio Lower Upper  
 164 100  
 162 105.8 83.1 124.7  
 160 54.3 37.1 55.7

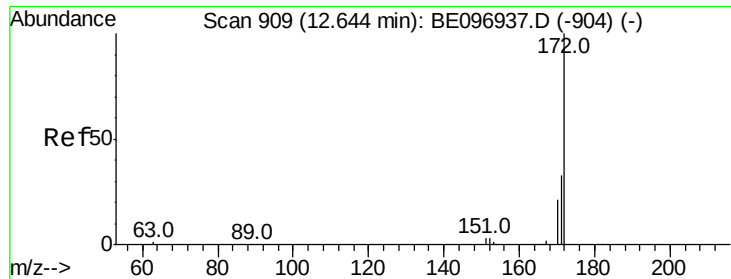


#14  
 2,4,6-Tribromophenol  
 Concen: 0.702 ng  
 RT: 15.52 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: BE097057.D  
 Acq: 24 Jul 2018 4:29

Tgt Ion:330 Resp: 661  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 152.7 229.1#  
 141 39.0 33.7 50.5



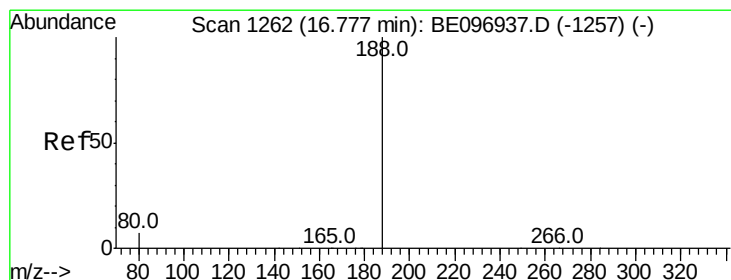
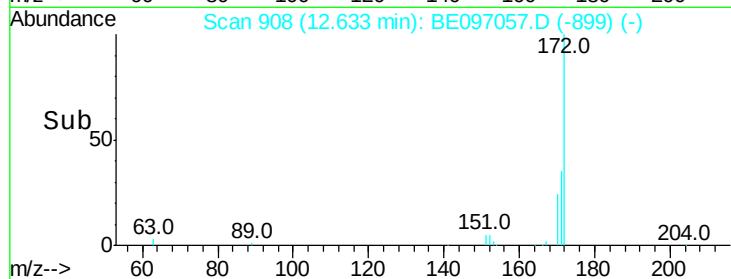
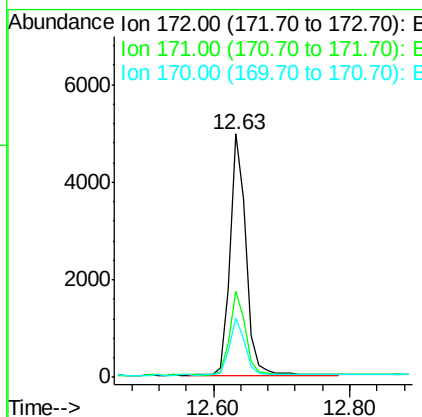
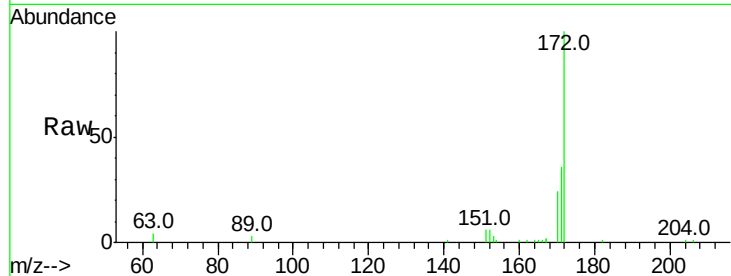




#15  
2-Fluorobiphenyl  
Concen: 0.567 ng  
RT: 12.63 min Scan# 908  
Delta R.T. 0.00 min  
Lab File: BE097057.D  
Acq: 24 Jul 2018 4:29

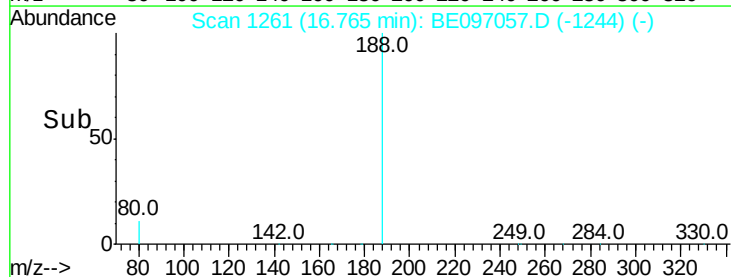
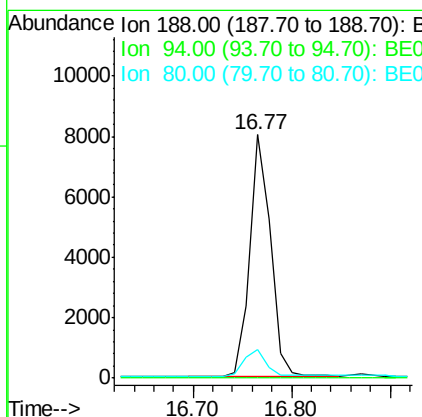
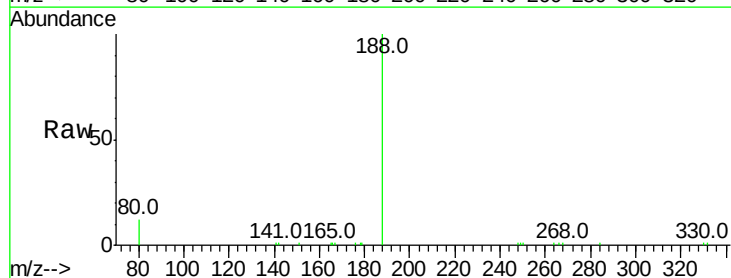
Instrument :  
BNA\_E  
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RE108D1-071718

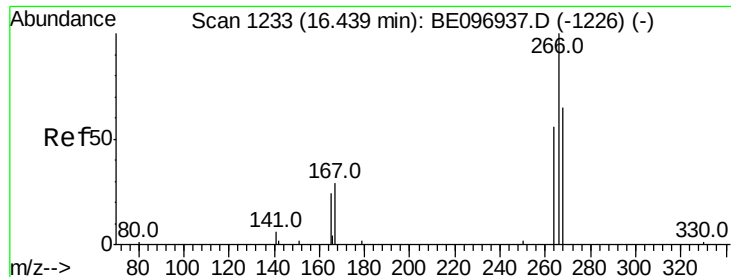
Tot Ion:172 Resp: 8134  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.9 44.9  
170 24.3 21.8 32.8



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.77 min Scan# 1261  
Delta R.T. 0.00 min  
Lab File: BE097057.D  
Acq: 24 Jul 2018 4:29

Tgt Ion:188 Resp: 11726  
Ion Ratio Lower Upper  
188 100  
94 0.0 3.9 5.9#  
80 11.8 3.6 5.4#





#22

Pentachlorophenol

Concen: Below Cal

RT: 16.40 min Scan# 1230

Delta R.T. -0.02 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

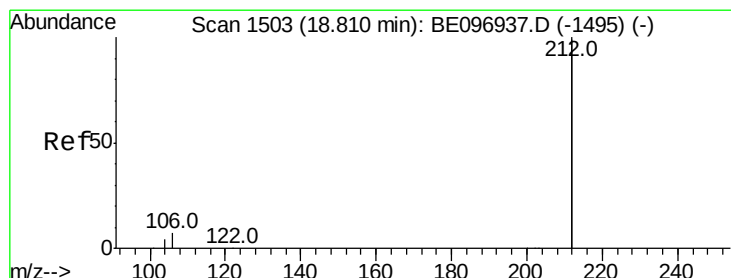
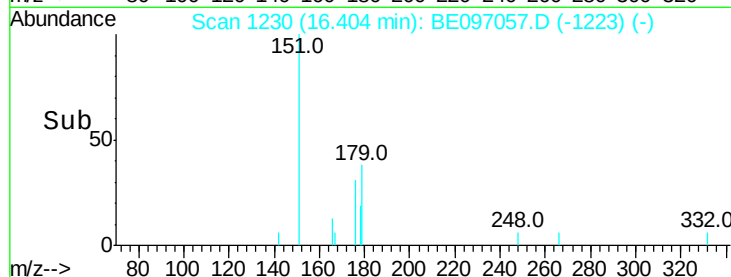
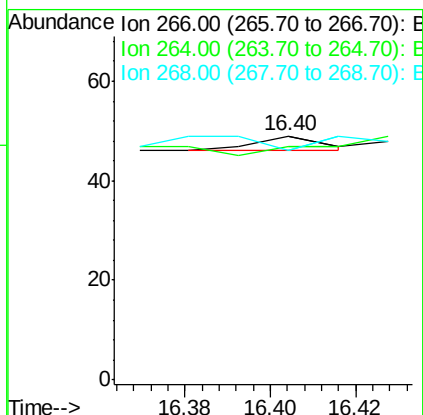
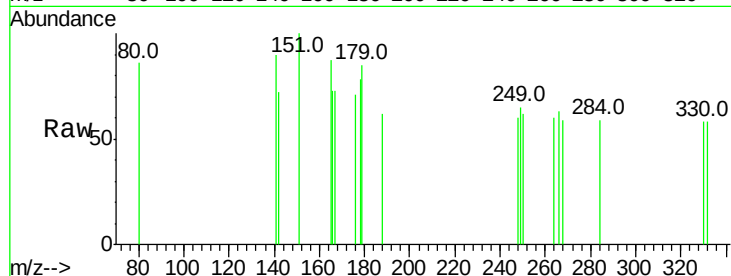
Instrument :

BNA\_E

ClientSampleId :

RE108D1-071718

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 266   | Resp: | 3     |
| Ion      | Ratio | Lower | Upper |
| 266      | 100   |       |       |
| 264      | 95.9  | 72.5  | 108.7 |
| 268      | 93.9  | 73.8  | 110.6 |



#25

Fluoranthene-d10

Concen: 0.675 ng

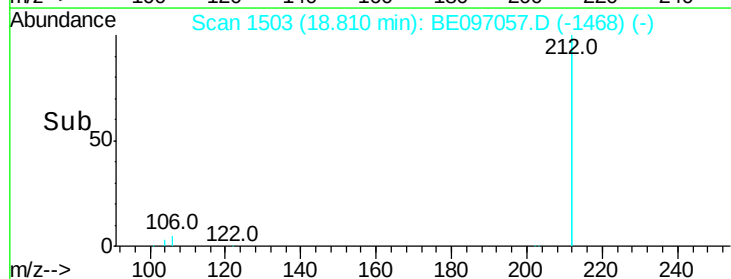
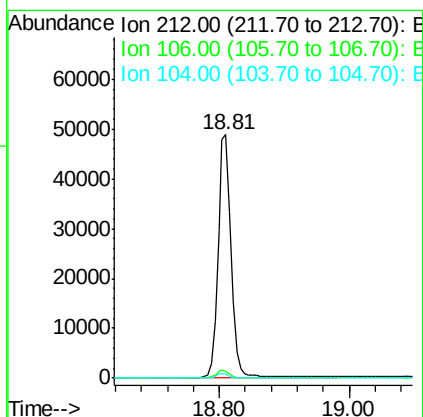
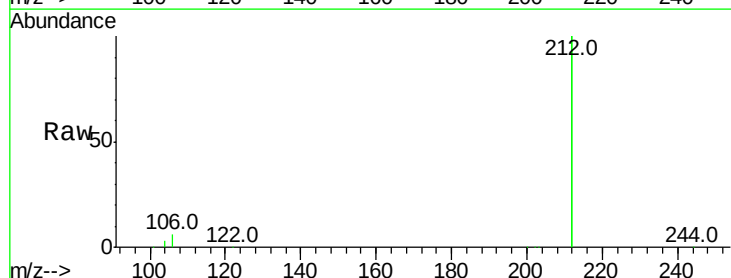
RT: 18.81 min Scan# 1503

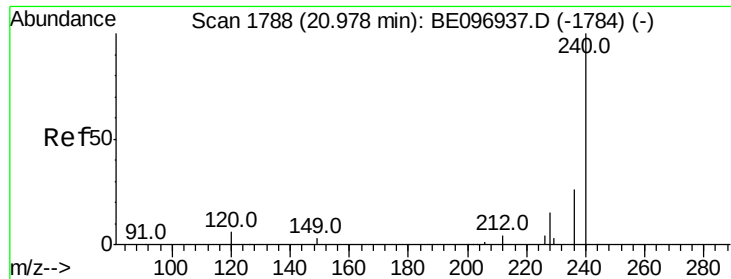
Delta R.T. 0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 68857 |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 3.0   | 2.8   | 4.2   |
| 104      | 1.7   | 1.6   | 2.4   |

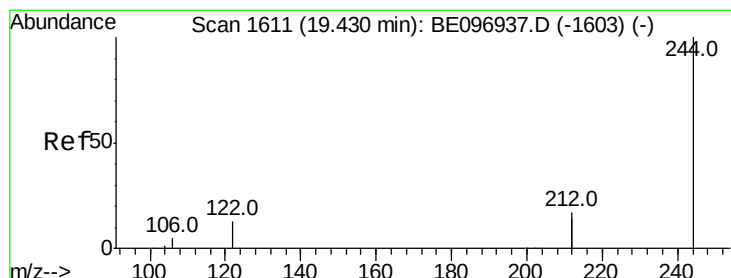
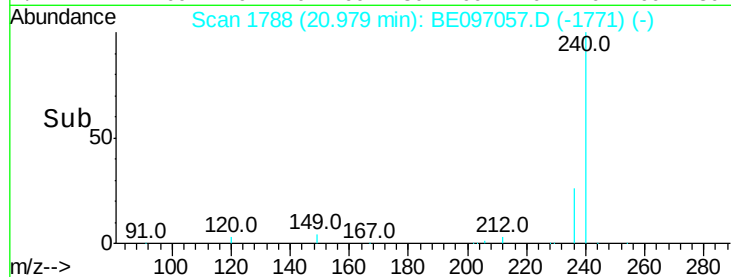
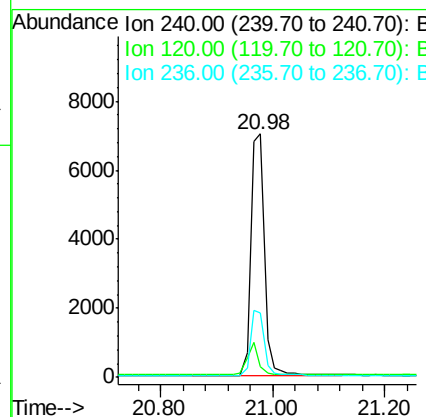
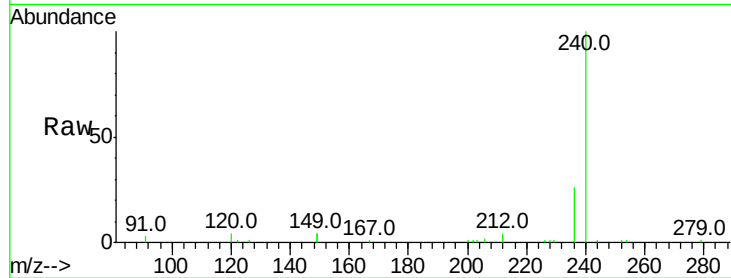




#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 20.98 min Scan# 1788  
 Delta R.T. -0.00 min  
 Lab File: BE097057.D  
 Acq: 24 Jul 2018 4:29

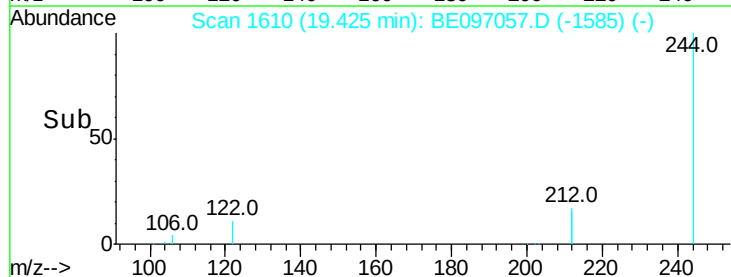
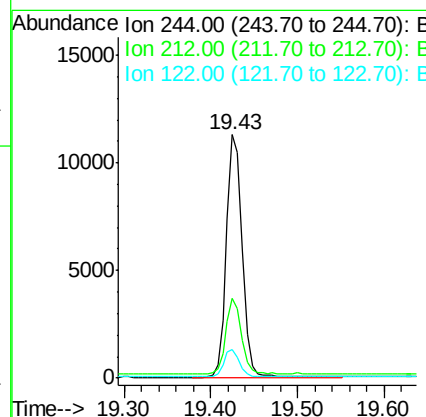
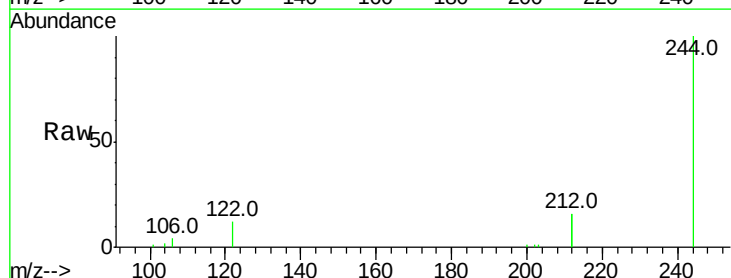
Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE108D1-071718

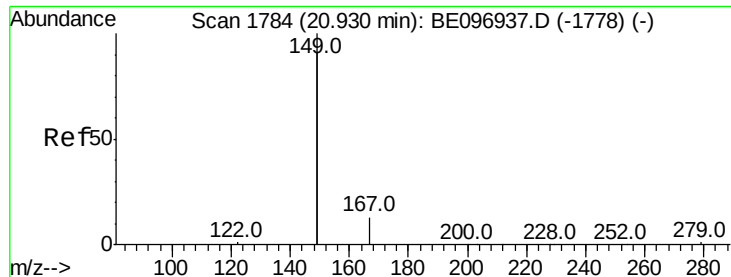
Tot Ion:240 Resp: 11782  
 Ion Ratio Lower Upper  
 240 100  
 120 4.3 5.5 8.3#  
 236 26.4 20.7 31.1



#29  
 Terphenyl-d14  
 Concen: 0.631 ng  
 RT: 19.43 min Scan# 1610  
 Delta R.T. -0.00 min  
 Lab File: BE097057.D  
 Acq: 24 Jul 2018 4:29

Tgt Ion:244 Resp: 14332  
 Ion Ratio Lower Upper  
 244 100  
 212 33.0 25.4 38.0  
 122 11.6 8.1 12.1





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.106 ng

RT: 20.92 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Instrument :

BNA\_E

ClientSampleId :

RE108D1-071718

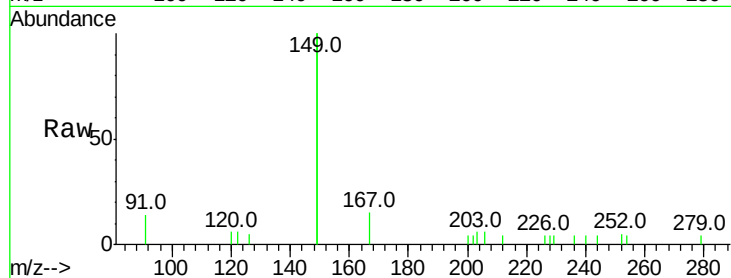
Tot Ion:149 Resp: 2964

Ion Ratio Lower Upper

149 100

167 6.9 5.4 8.0

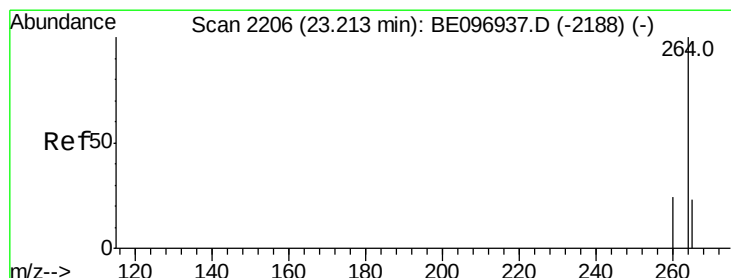
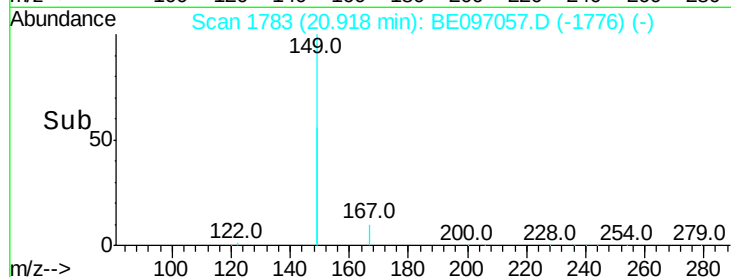
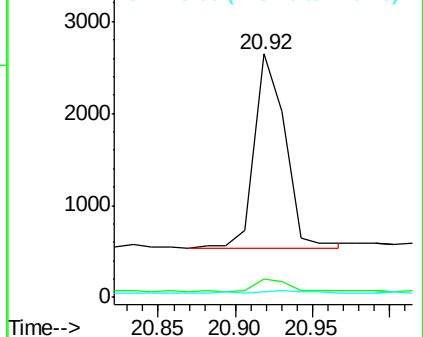
279 1.6 0.7 1.1#



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# 2205

Delta R.T. -0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

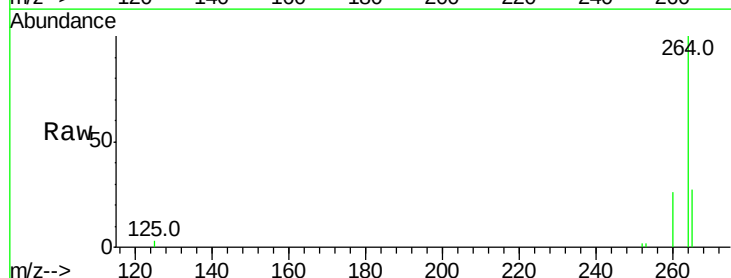
Tgt Ion:264 Resp: 11240

Ion Ratio Lower Upper

264 100

260 26.1 20.5 30.7

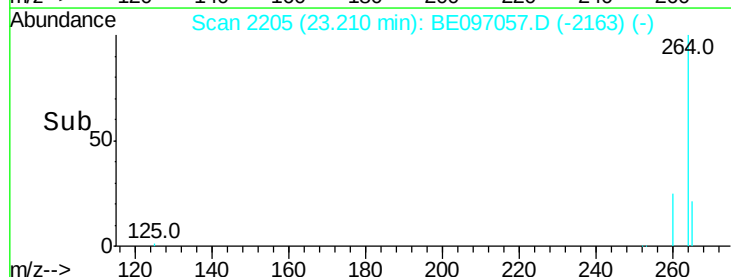
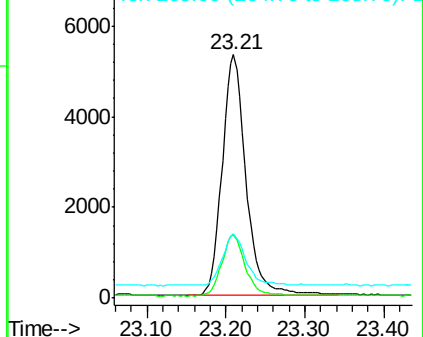
265 26.7 22.8 34.2

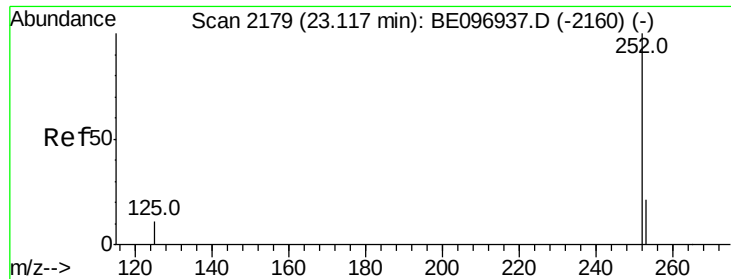


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#37

Benzo(a)pyrene

Concen: 0.101 ng

RT: 23.11 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Instrument :

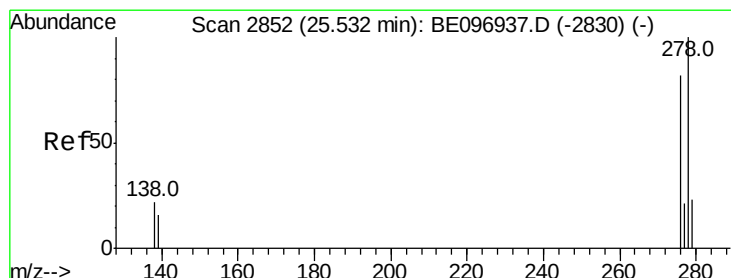
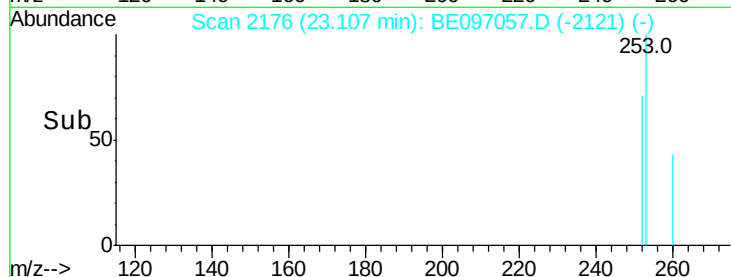
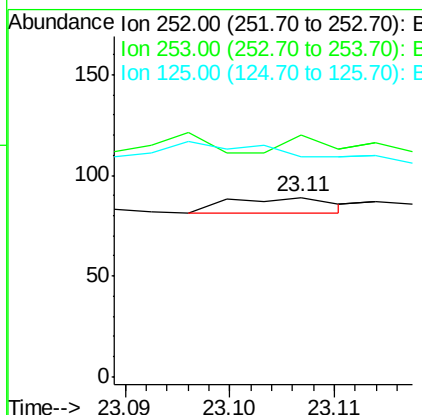
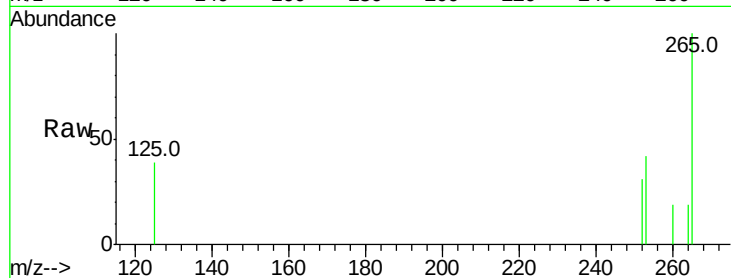
BNA\_E

ClientSampleId :

RE108D1-071718

Tot Ion:252 Resp: 6

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 134.8 | 16.0  | 24.0# |
| 125 | 122.5 | 12.0  | 18.0# |



#38

Dibenzo(a,h)anthracene

Concen: 0.118 ng

RT: 25.54 min Scan# 2853

Delta R.T. 0.01 min

Lab File: BE097057.D

Acq: 24 Jul 2018 4:29

Tgt Ion:278 Resp: 4

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 169.1 | 16.0  | 24.0# |
| 279 | 118.2 | 20.0  | 30.0# |

