

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071918\  
 Data File : BE097004.D  
 Acq On : 19 Jul 2018 14:35  
 Operator : SJ/JU  
 Sample : J4014-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE122D1-071218

Quant Time: Jul 19 15:40:23 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 17 15:02:56 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.40  | 152  | 1457     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 6784     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.01 | 164  | 4167     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 16.77 | 188  | 12264    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 20.98 | 240  | 11424    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 10610    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.06  | 112  | 605      | 0.17 | ng    | 0.01     |
| 5) Phenol-d6                | 6.60  | 99   | 534      | 0.10 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.53  | 82   | 2295     | 0.46 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.73 | 152  | 3992     | 0.40 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330  | 538      | 0.56 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.63 | 172  | 7142     | 0.46 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 18.81 | 212  | 57052    | 0.53 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.43 | 244  | 12338    | 0.56 | ng    | 0.00     |

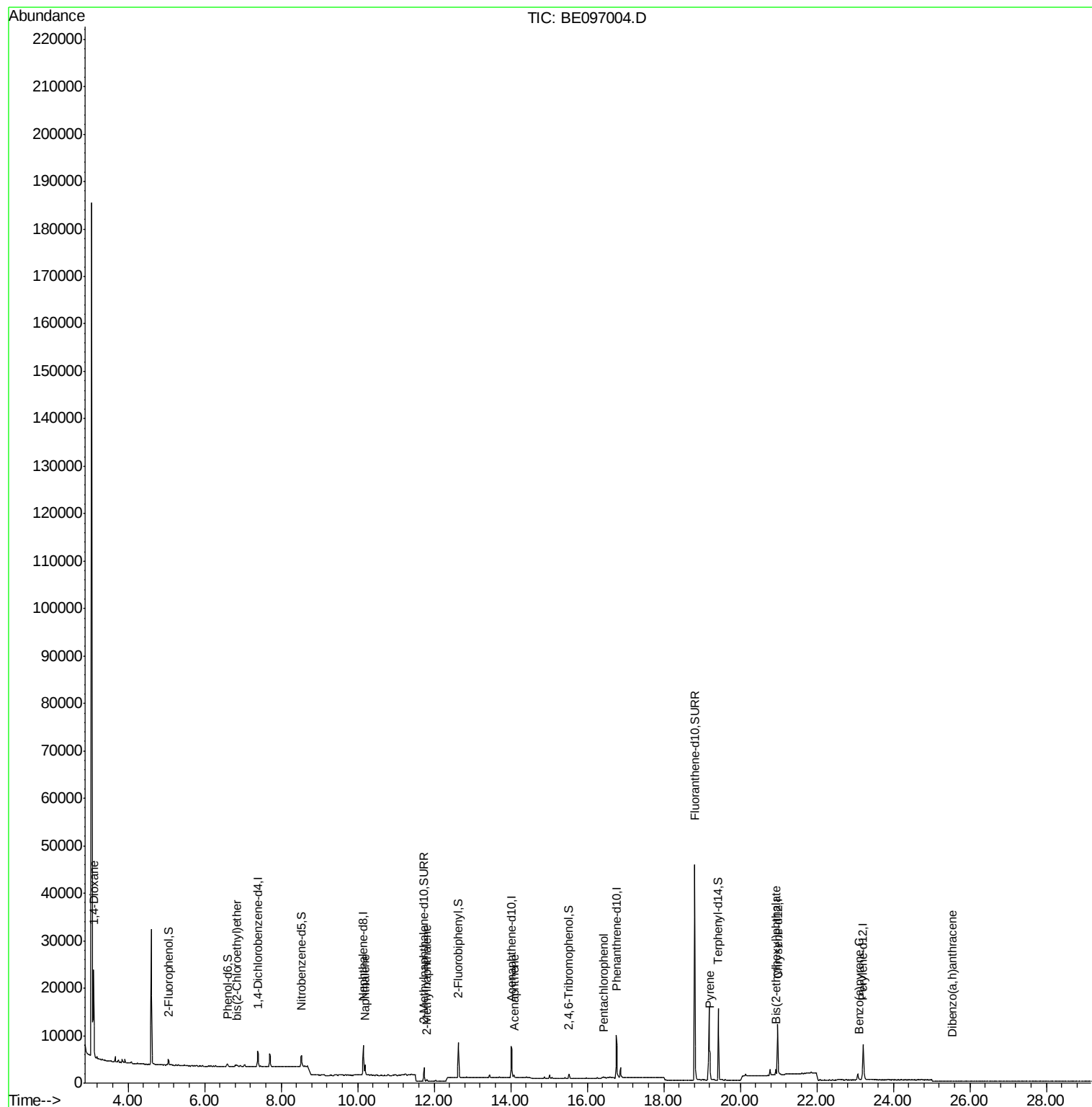
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.09  | 88   | 8783     | 4.211 | ng    | # 91   |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 147      | 0.028 | ng    | # 98   |
| 9) Naphthalene                 | 10.20 | 128  | 3297     | 0.054 | ng    | # 95   |
| 12) 2-Methylnaphthalene        | 11.81 | 142  | 307      | 0.030 | ng    | # 92   |
| 17) Acenaphthene               | 14.08 | 154  | 281      | 0.024 | ng    | 95     |
| 22) Pentachlorophenol          | 16.43 | 266  | 113      | 0.127 | ng    | 86     |
| 28) Pyrene                     | 19.21 | 202  | 5034     | 0.149 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 20.93 | 149  | 1704     | 0.063 | ng    | # 100  |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 98       | 0.104 | ng    | # 1    |
| 38) Dibenzo(a,h)anthracene     | 25.54 | 278  | 117      | 0.122 | 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: 7.40 min Scan# 394

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

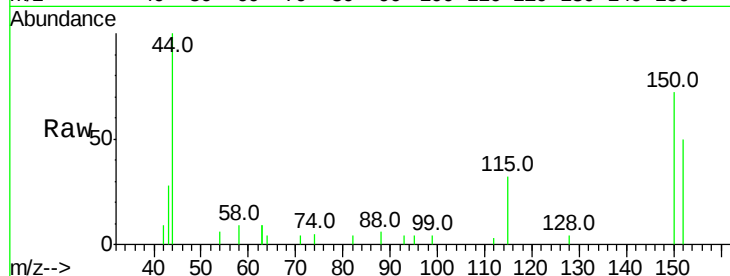
Tot Ion:152 Resp: 1457

Ion Ratio Lower Upper

152 100

150 143.7 117.2 175.8

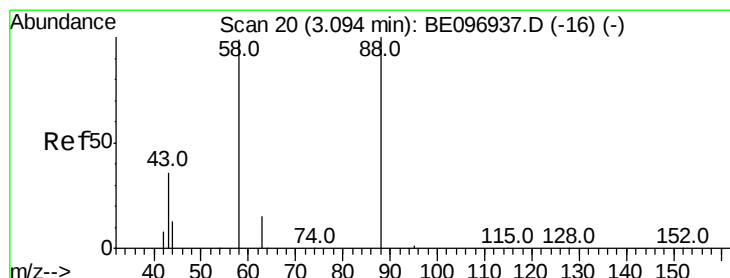
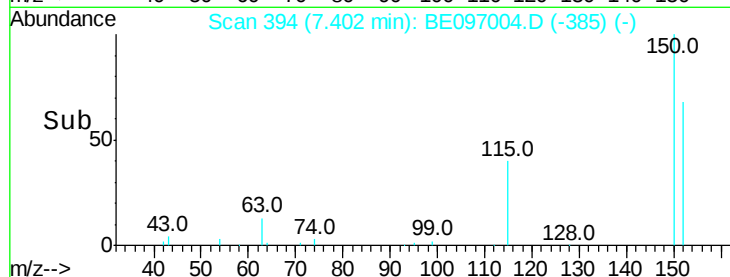
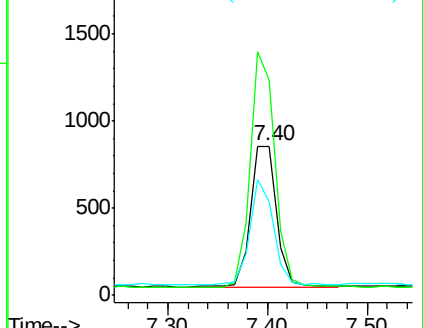
115 63.2 57.0 85.6



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: 4.211 ng

RT: 3.09 min Scan# 20

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

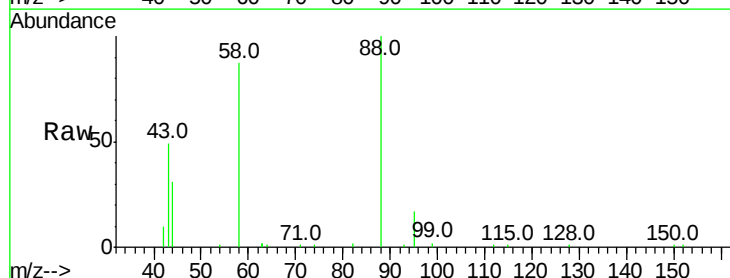
Tgt Ion: 88 Resp: 8783

Ion Ratio Lower Upper

88 100

58 83.1 63.2 94.8

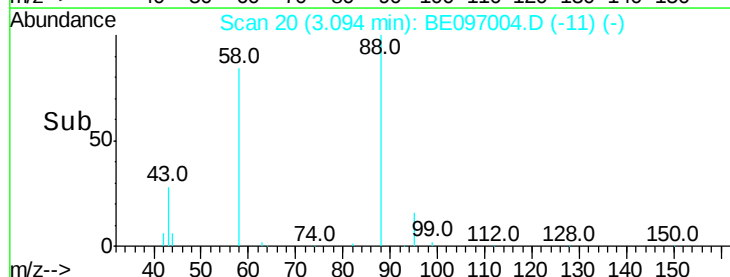
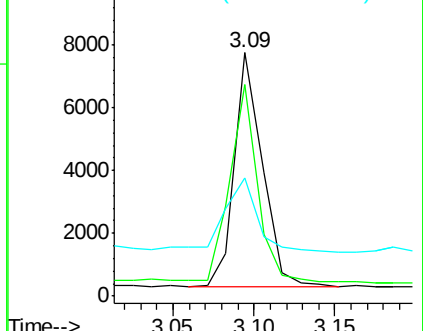
43 39.9 41.2 61.8#



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: 0.174 ng

RT: 5.06 min Scan# 191

Delta R.T. 0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

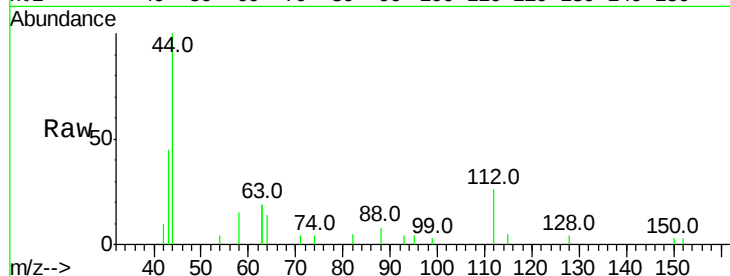
Tot Ion:112 Resp: 605

Ion Ratio Lower Upper

112 100

64 75.2 60.1 90.1

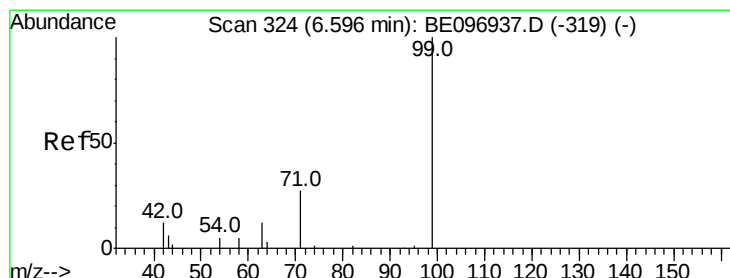
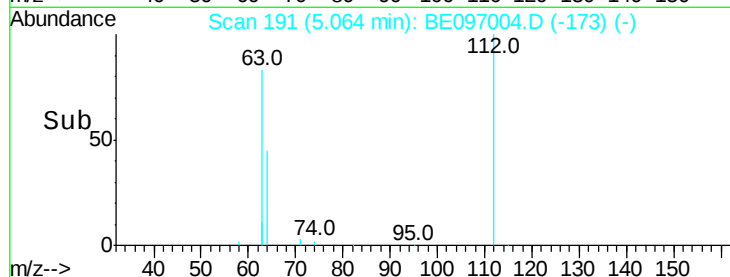
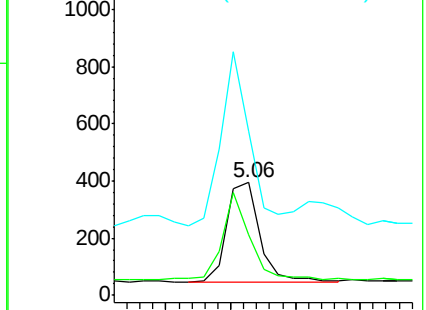
63 151.9 116.8 175.2



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



#5

Phenol-d6

Concen: 0.100 ng

RT: 6.60 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

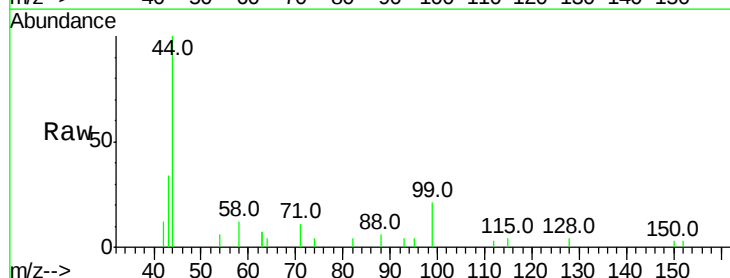
Tgt Ion: 99 Resp: 534

Ion Ratio Lower Upper

99 100

42 23.0 20.2 30.2

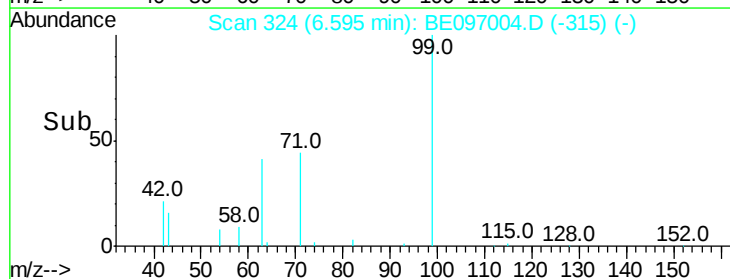
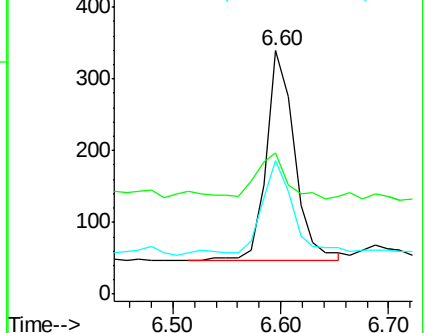
71 45.5 28.4 42.6#

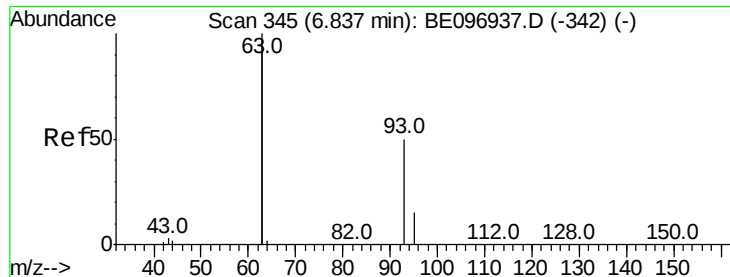


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.028 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

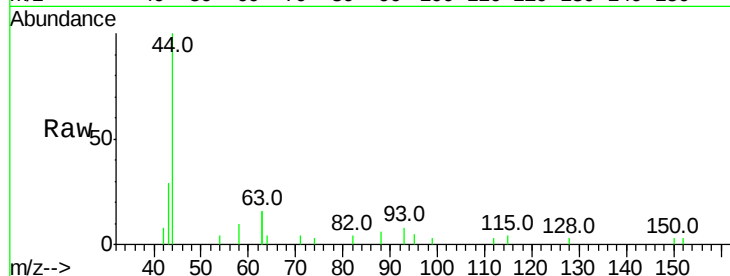
Tot Ion: 93 Resp: 147

Ion Ratio Lower Upper

93 100

63 341.5 275.3 412.9

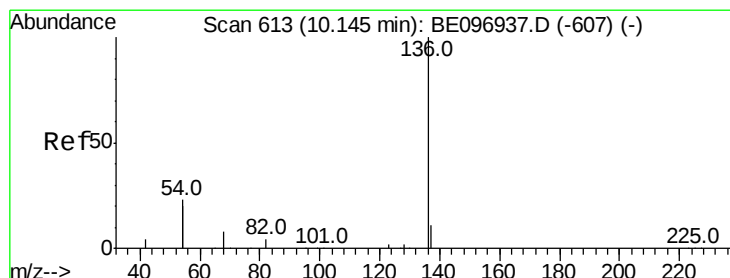
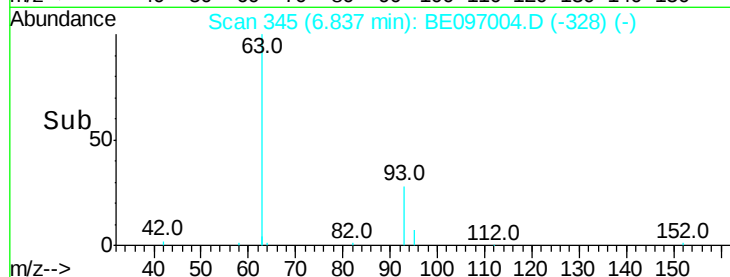
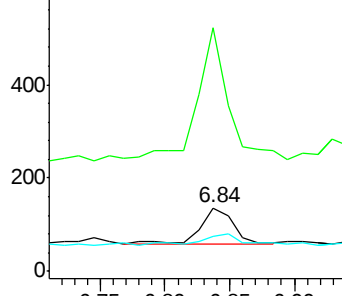
95 39.5 25.2 37.8#



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Tgt Ion:136 Resp: 6784

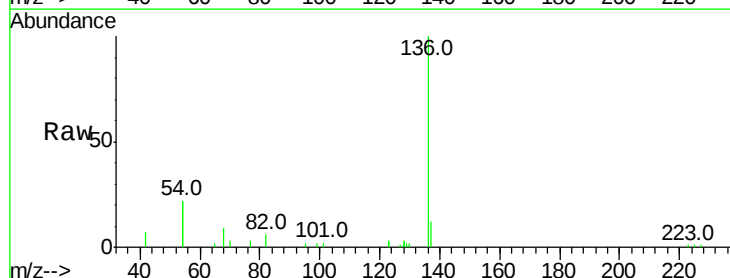
Ion Ratio Lower Upper

136 100

137 12.0 9.5 14.3

54 43.4 29.1 43.7

68 8.6 6.2 9.2

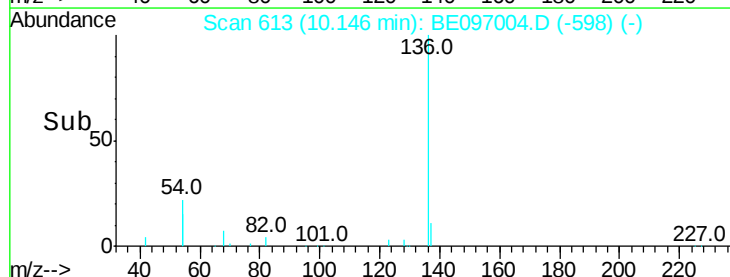
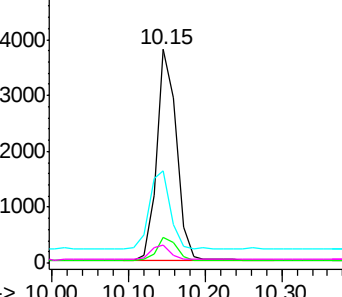


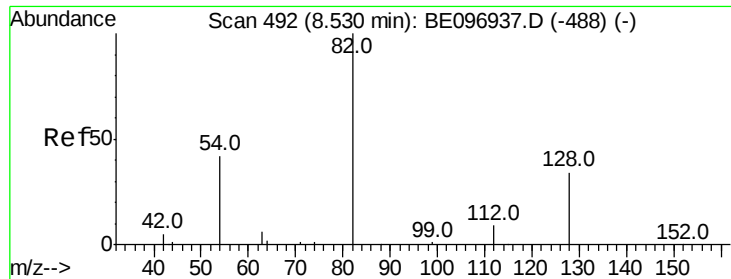
Abundance Ion 136.00 (135.70 to 136.70): E

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





#8

Nitrobenzene-d5

Concen: 0.464 ng

RT: 8.53 min Scan# 492

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

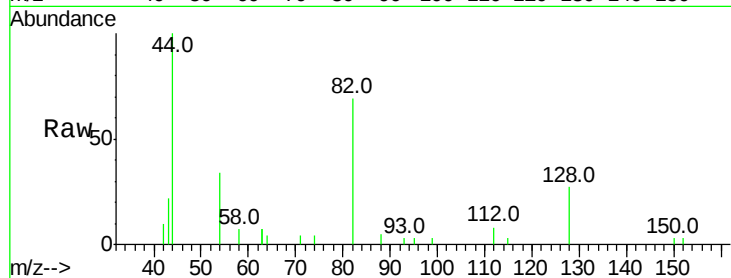
Tot Ion: 82 Resp: 2295

Ion Ratio Lower Upper

82 100

128 39.0 24.0 36.0#

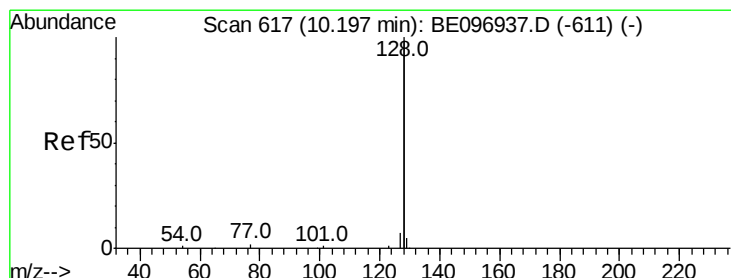
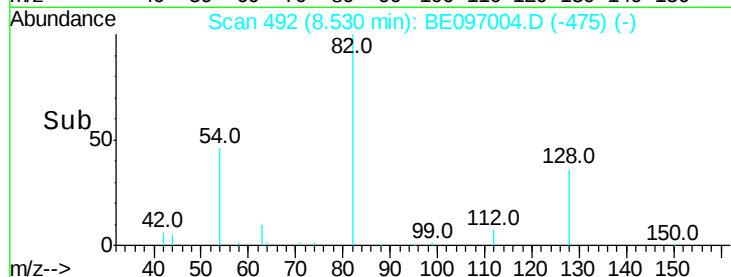
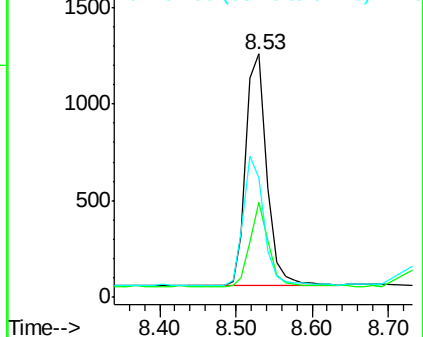
54 48.9 40.0 60.0



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



#9

Naphthalene

Concen: 0.054 ng

RT: 10.20 min Scan# 617

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

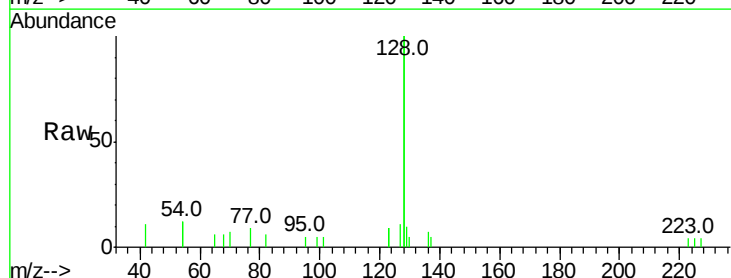
Tgt Ion:128 Resp: 3297

Ion Ratio Lower Upper

128 100

129 4.8 2.6 3.8#

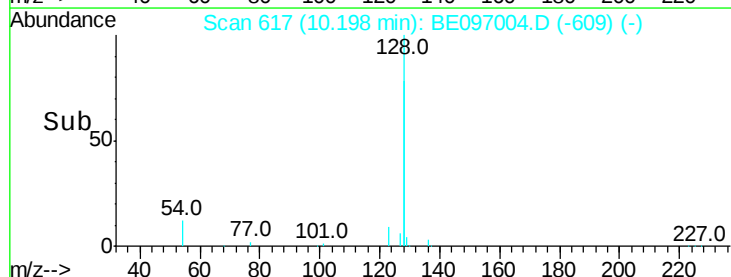
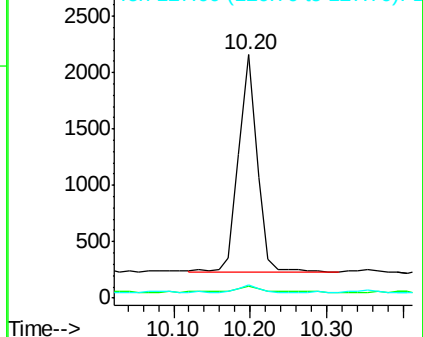
127 5.3 2.8 4.2#

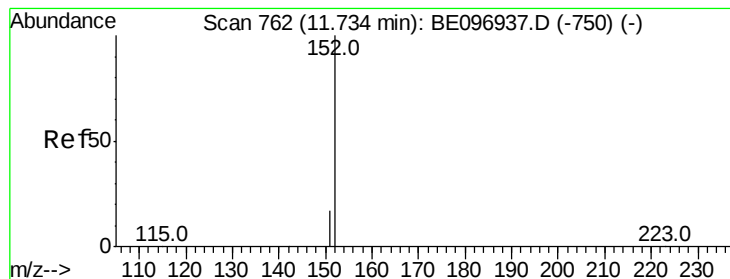


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.404 ng

RT: 11.73 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

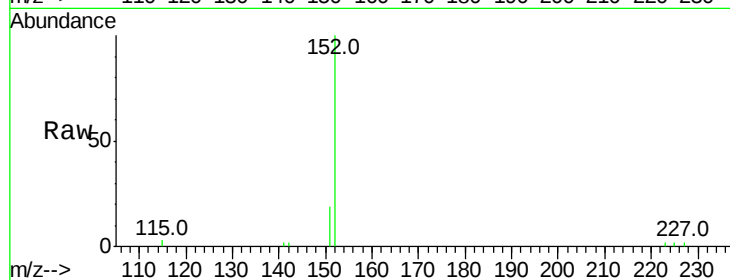
RE122D1-071218

Tot Ion:152 Resp: 3992

Ion Ratio Lower Upper

152 100

151 19.2 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.73

2500

2000

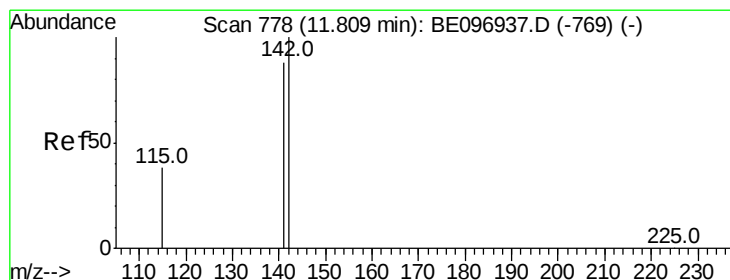
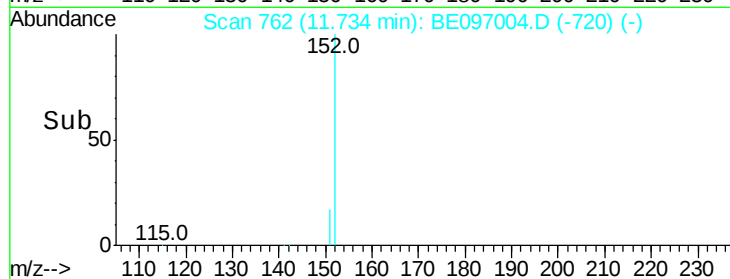
1500

1000

500

0

Time--> 11.60 11.70 11.80



#12

2-Methylnaphthalene

Concen: 0.030 ng

RT: 11.81 min Scan# 778

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

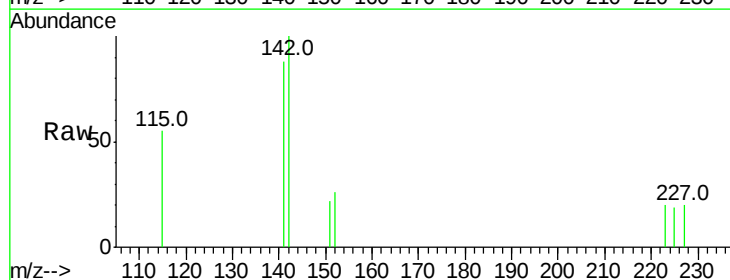
Tgt Ion:142 Resp: 307

Ion Ratio Lower Upper

142 100

141 87.6 70.4 105.6

115 54.9 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

11.81

300

250

200

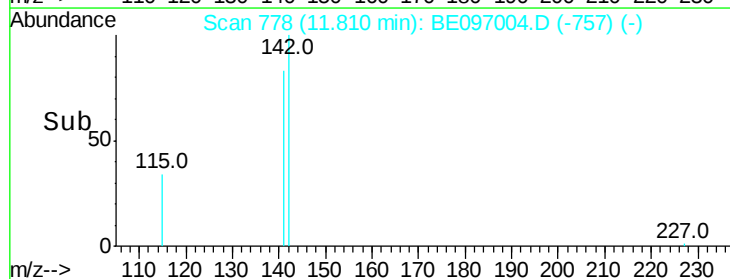
150

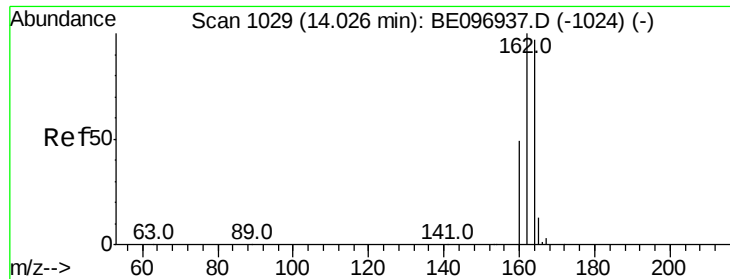
100

50

0

Time--> 11.75 11.80 11.85

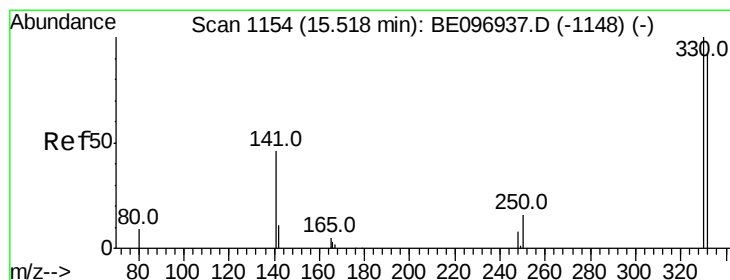
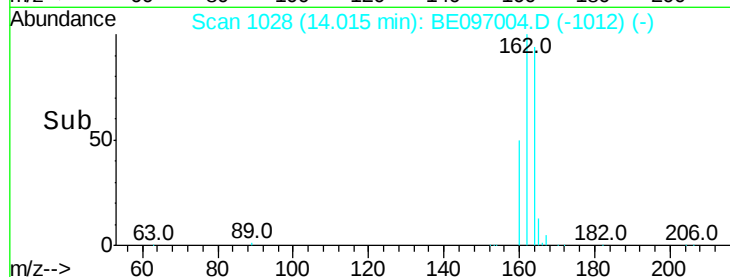
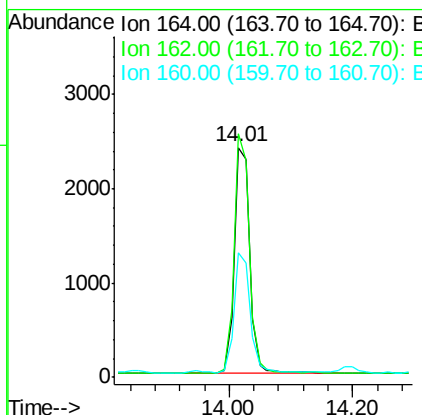
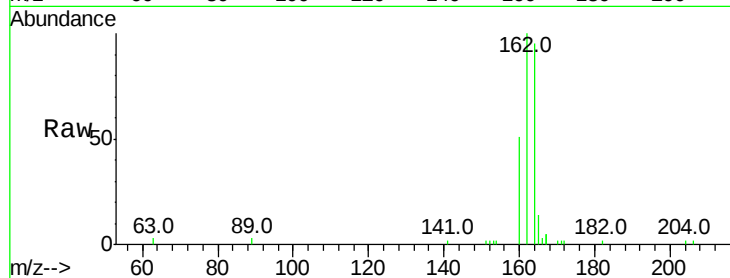




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.01 min Scan# 1028  
 Delta R.T. -0.01 min  
 Lab File: BE097004.D  
 Acq: 19 Jul 2018 14:35

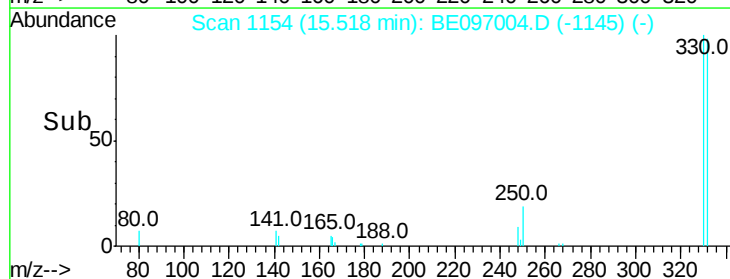
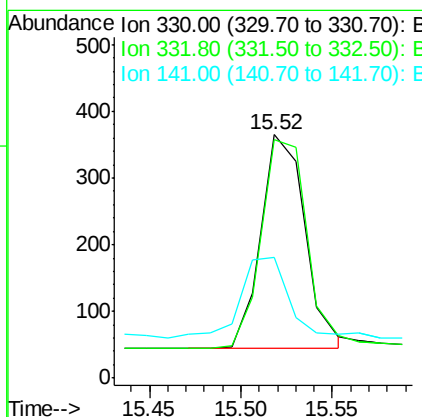
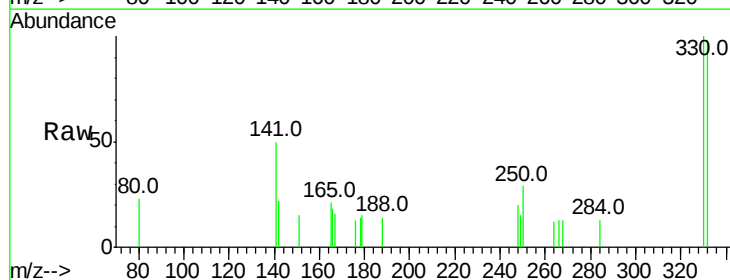
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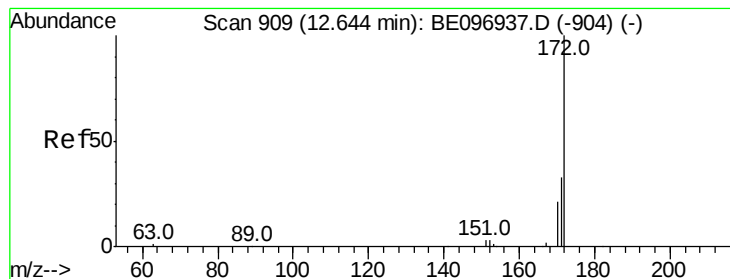
Tot Ion:164 Resp: 4167  
 Ion Ratio Lower Upper  
 164 100  
 162 105.8 83.1 124.7  
 160 54.3 37.1 55.7



#14  
 2,4,6-Tribromophenol  
 Concen: 0.556 ng  
 RT: 15.52 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: BE097004.D  
 Acq: 19 Jul 2018 14:35

Tgt Ion:330 Resp: 538  
 Ion Ratio Lower Upper  
 330 100  
 332 101.9 152.7 229.1#  
 141 40.3 33.7 50.5





#15

2-Fluorobiphenyl

Concen: 0.461 ng

RT: 12.63 min Scan# 908

Delta R.T. -0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

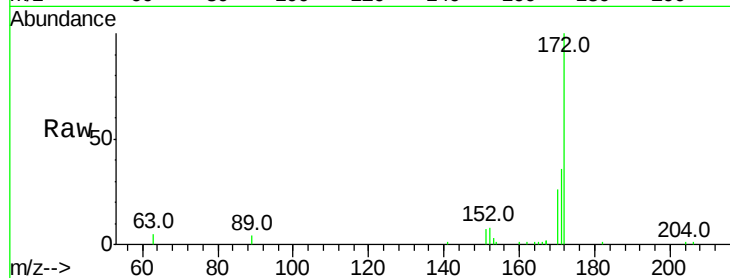
Tot Ion:172 Resp: 7142

Ion Ratio Lower Upper

172 100

171 36.1 29.9 44.9

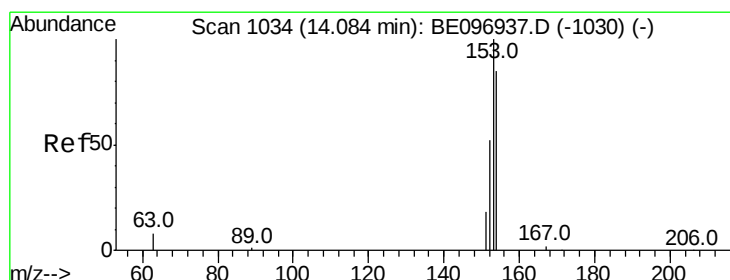
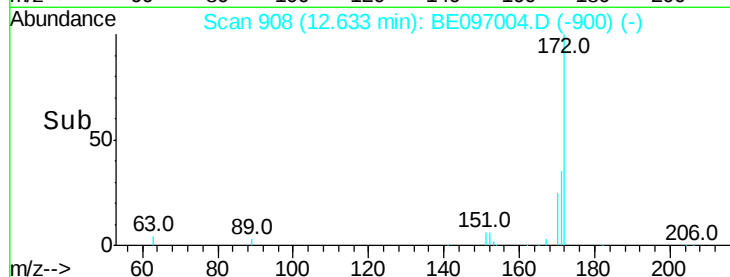
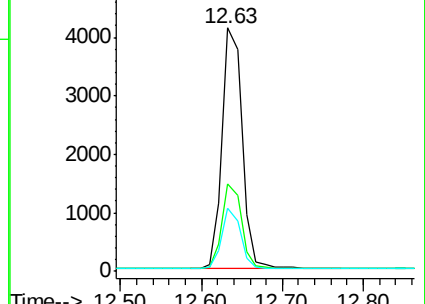
170 26.1 21.8 32.8



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



#17

Acenaphthene

Concen: 0.024 ng

RT: 14.08 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

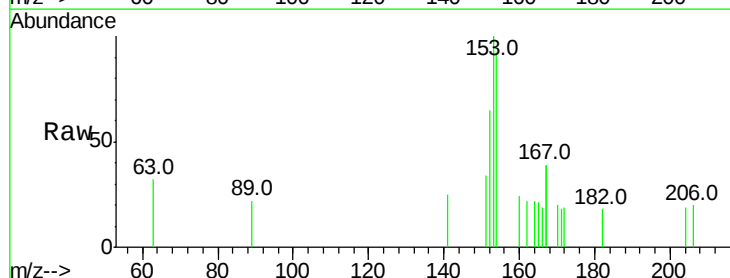
Tgt Ion:154 Resp: 281

Ion Ratio Lower Upper

154 100

153 113.5 89.2 133.8

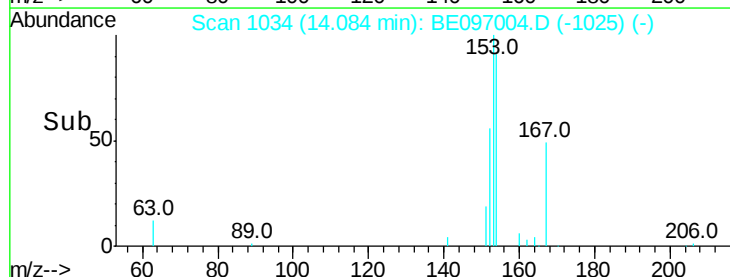
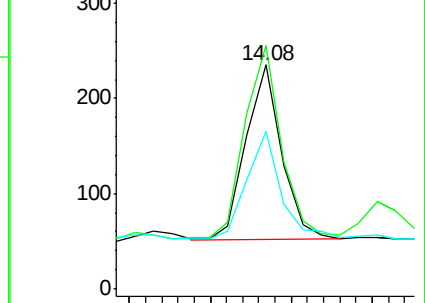
152 60.1 42.0 63.0

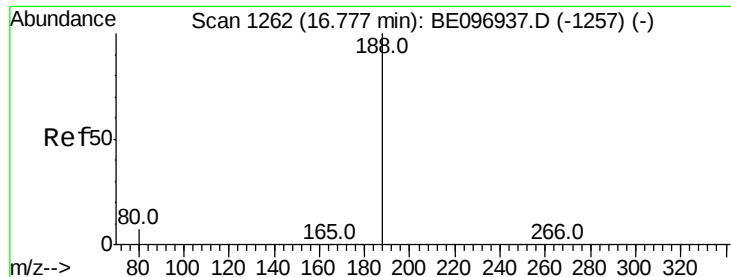


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.77 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

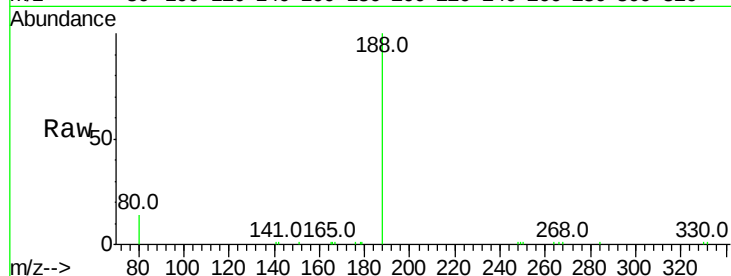
Tot Ion:188 Resp: 12264

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

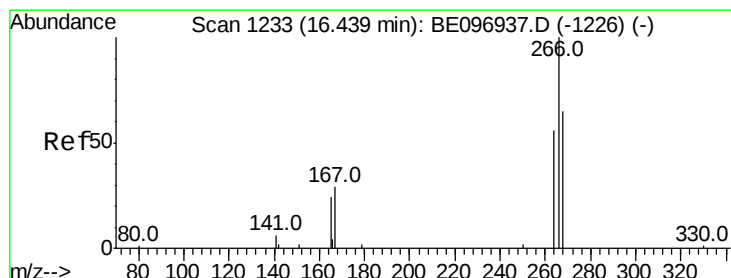
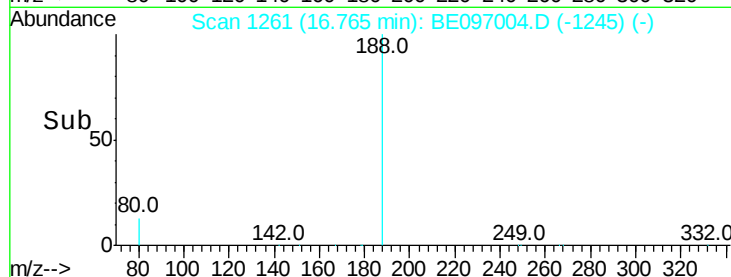
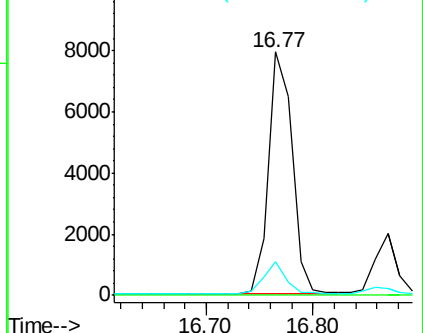
80 13.6 3.6 5.4#



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: 0.127 ng

RT: 16.43 min Scan# 1232

Delta R.T. -0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

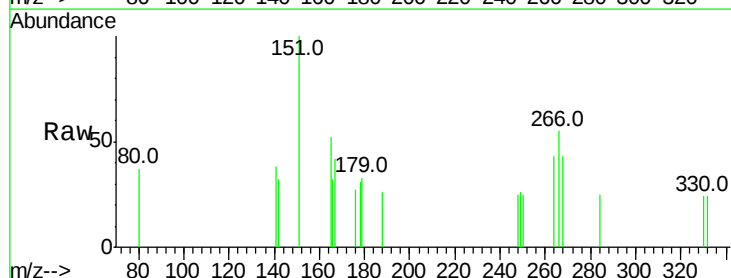
Tgt Ion:266 Resp: 113

Ion Ratio Lower Upper

266 100

264 77.7 72.5 108.7

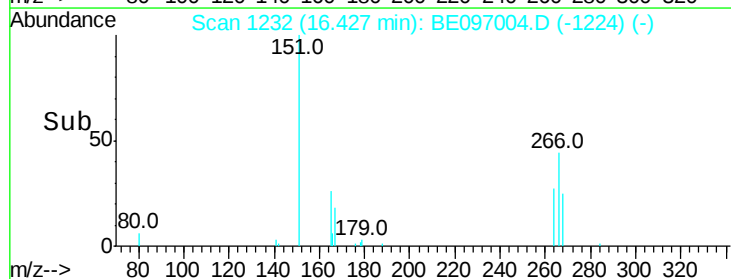
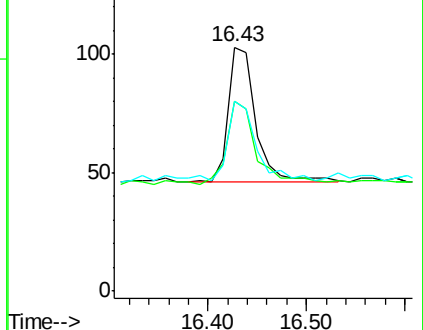
268 77.7 73.8 110.6

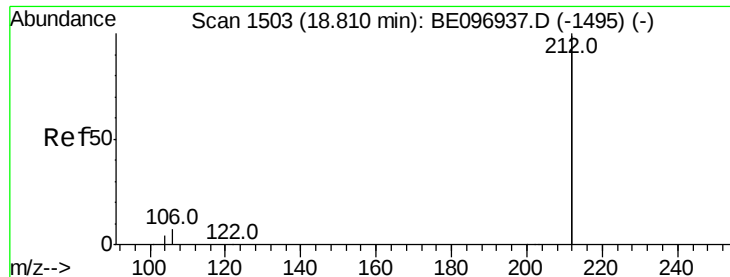


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Fluoranthene-d10

Concen: 0.535 ng

RT: 18.81 min Scan# 1503

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

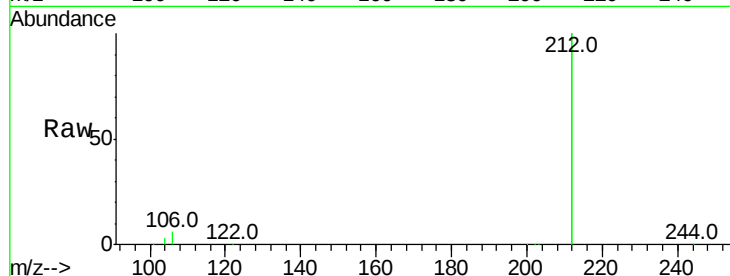
Tot Ion:212 Resp: 57052

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

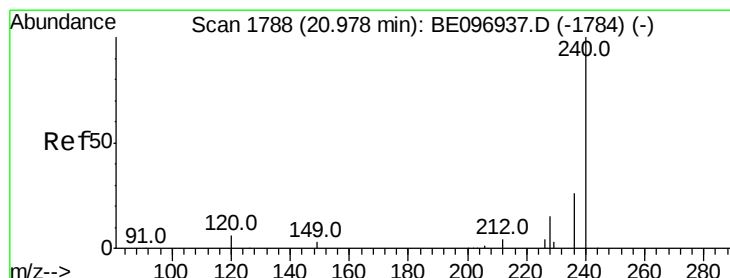
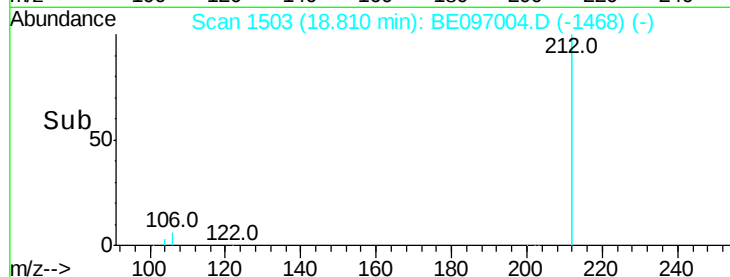
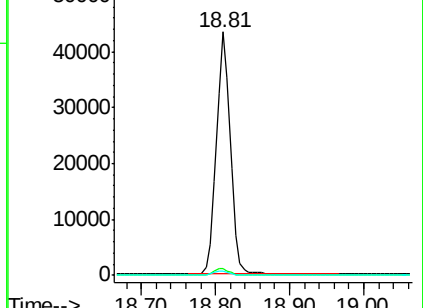
104 1.6 1.6 2.4



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: 0.400 ng

RT: 20.98 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

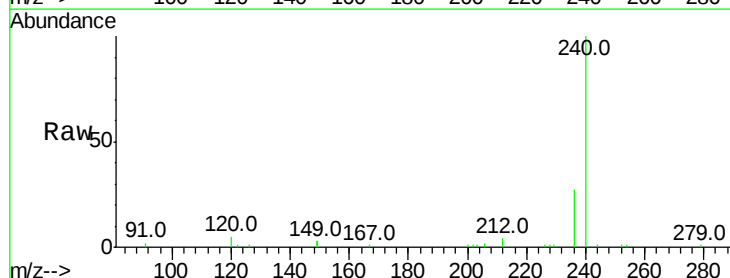
Tgt Ion:240 Resp: 11424

Ion Ratio Lower Upper

240 100

120 4.8 5.5 8.3#

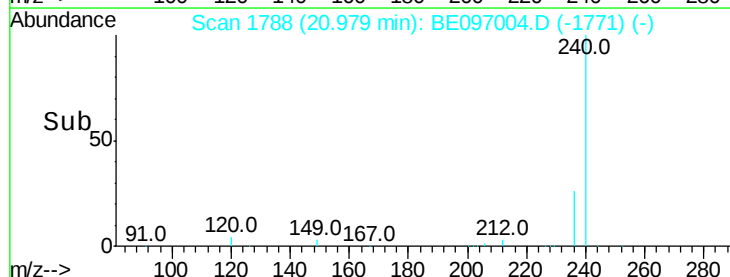
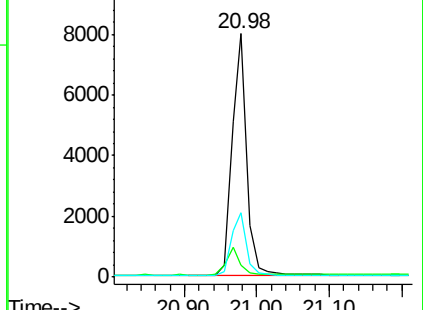
236 26.7 20.7 31.1

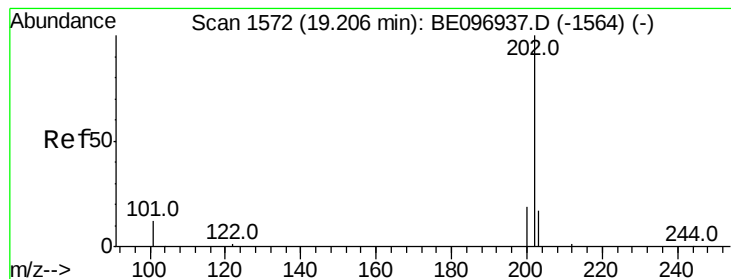


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.149 ng

RT: 19.21 min Scan# 1572

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

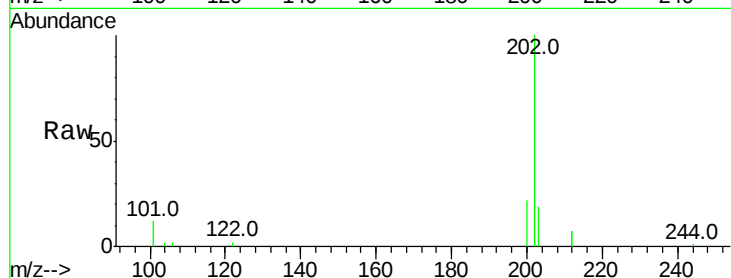
Tot Ion:202 Resp: 5034

Ion Ratio Lower Upper

202 100

200 21.3 16.6 25.0

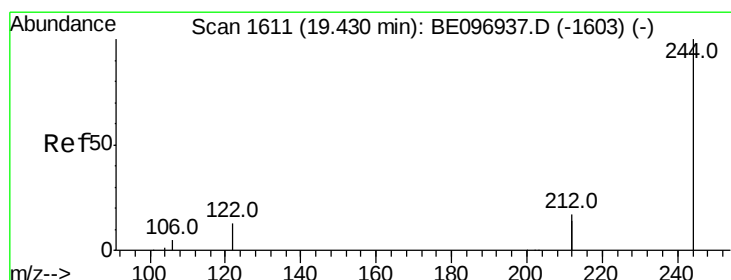
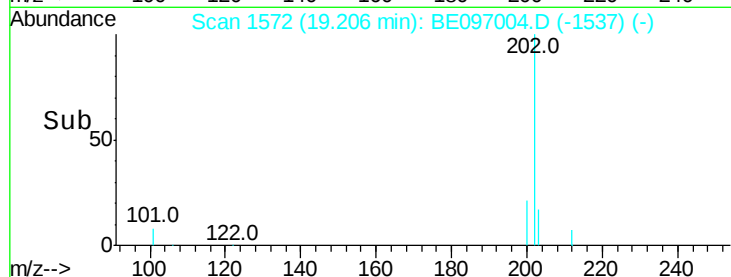
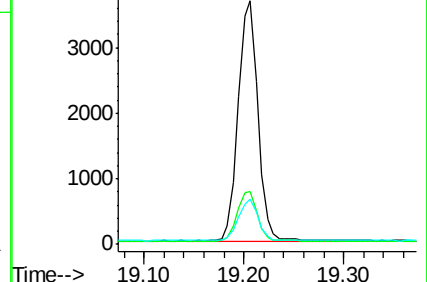
203 17.3 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.560 ng

RT: 19.43 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

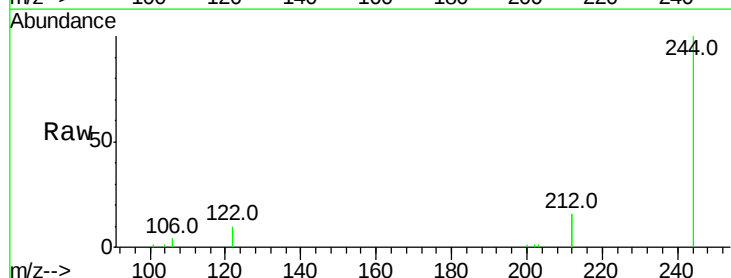
Tgt Ion:244 Resp: 12338

Ion Ratio Lower Upper

244 100

212 32.7 25.4 38.0

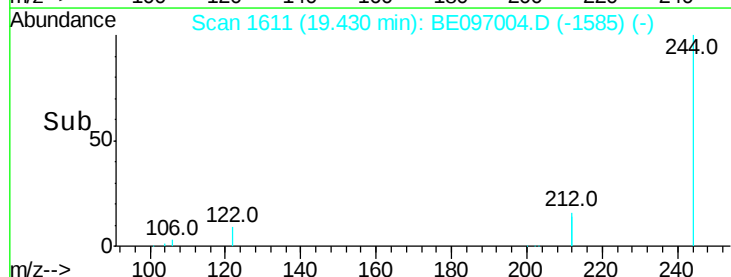
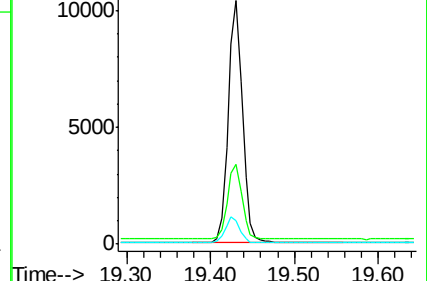
122 9.7 8.1 12.1

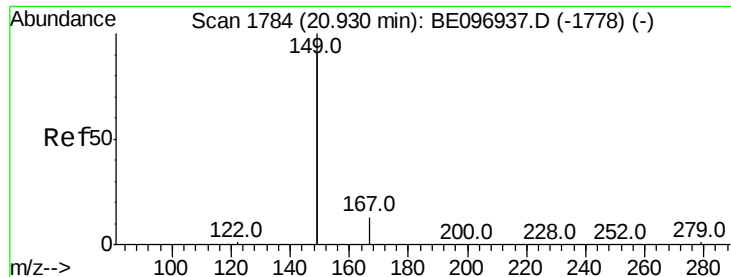


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

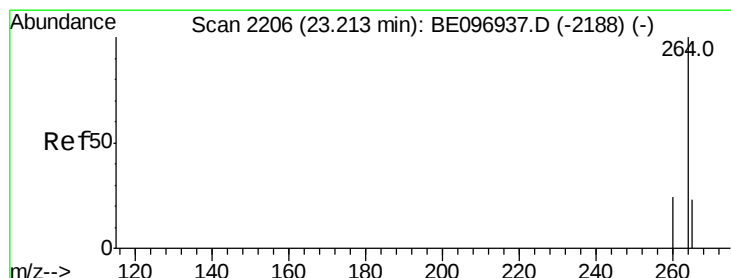
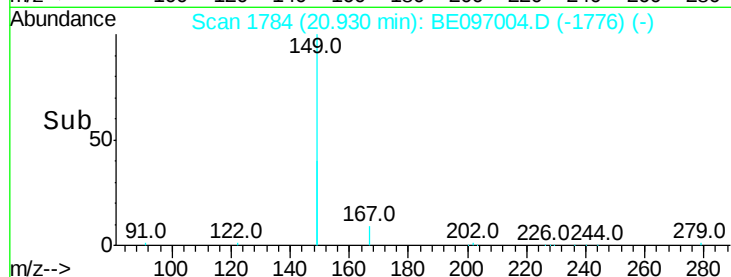
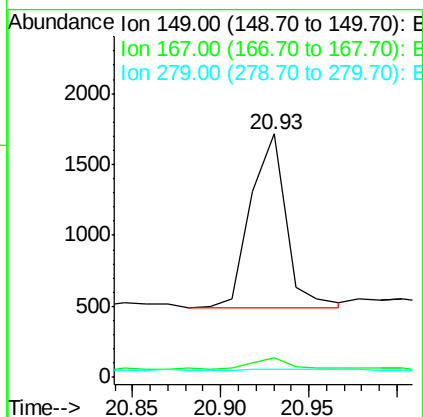
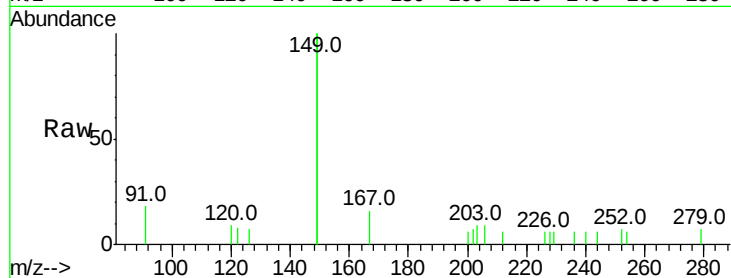




#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.063 ng  
 RT: 20.93 min Scan# 1784  
 Delta R.T. 0.00 min  
 Lab File: BE097004.D  
 Acq: 19 Jul 2018 14:35

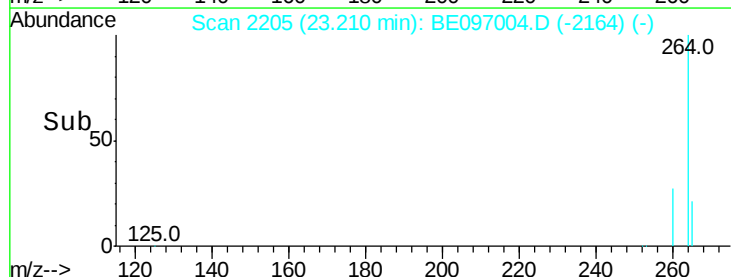
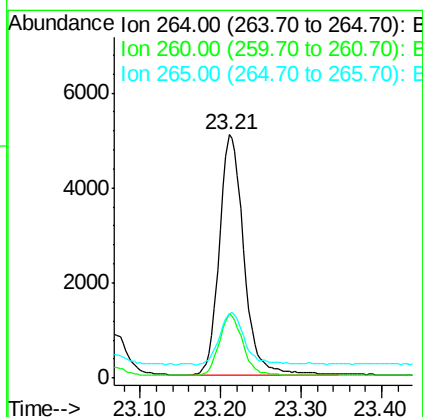
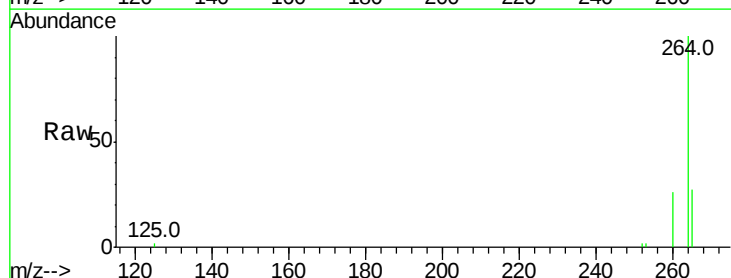
Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE122D1-071218

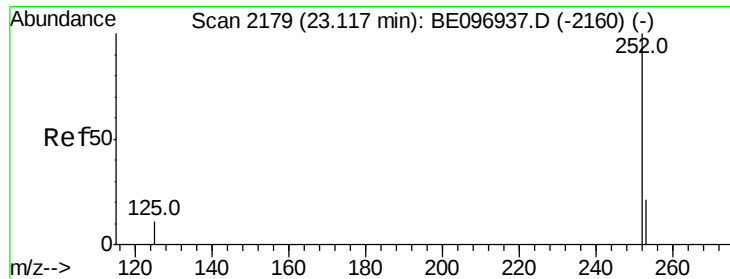
Tot Ion:149 Resp: 1704  
 Ion Ratio Lower Upper  
 149 100  
 167 6.6 5.4 8.0  
 279 1.5 0.7 1.1#



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.21 min Scan# 2205  
 Delta R.T. -0.00 min  
 Lab File: BE097004.D  
 Acq: 19 Jul 2018 14:35

Tgt Ion:264 Resp: 10610  
 Ion Ratio Lower Upper  
 264 100  
 260 26.4 20.5 30.7  
 265 26.7 22.8 34.2





#37

Benzo(a)pyrene

Concen: 0.104 ng

RT: 23.11 min Scan# 2178

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA\_E

ClientSampleId :

RE122D1-071218

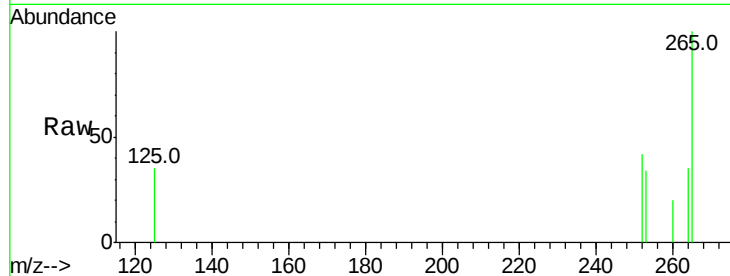
Tot Ion:252 Resp: 98

Ion Ratio Lower Upper

252 100

253 81.6 16.0 24.0#

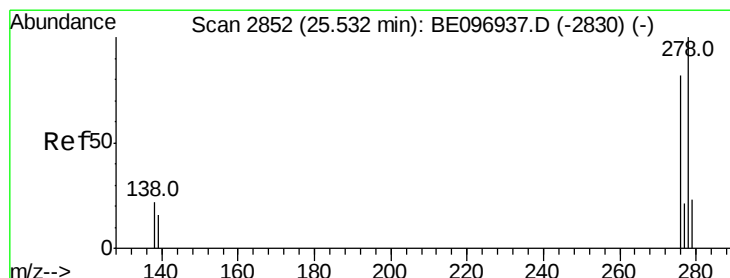
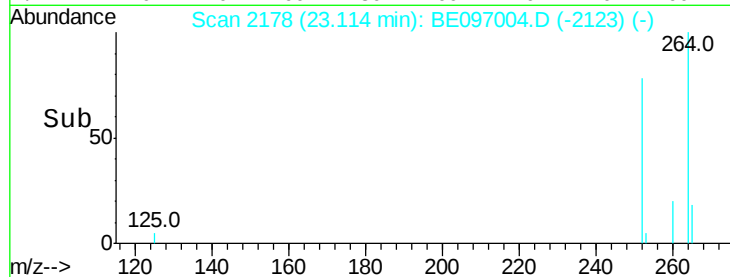
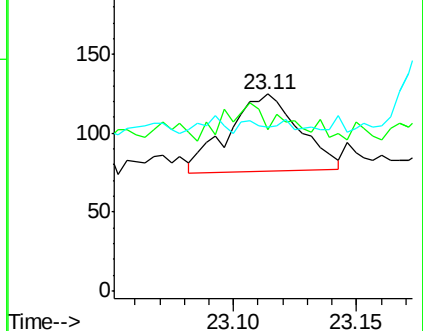
125 83.2 12.0 18.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.122 ng

RT: 25.54 min Scan# 2854

Delta R.T. 0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

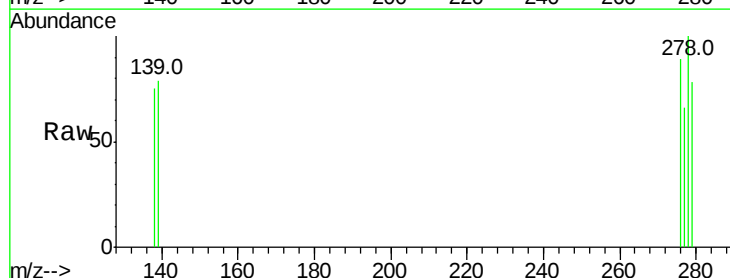
Tgt Ion:278 Resp: 117

Ion Ratio Lower Upper

278 100

139 79.3 16.0 24.0#

279 78.2 20.0 30.0#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

