

Data File : BE097768.D  
Acq On : 5 Oct 2018 23:11  
Operator : SJ/JU  
Sample : J5284-11  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
RE-103D2-20181003

Quant Time: Oct 06 04:21:01 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE100318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 03 12:17:19 2018  
Response via : Initial Calibration

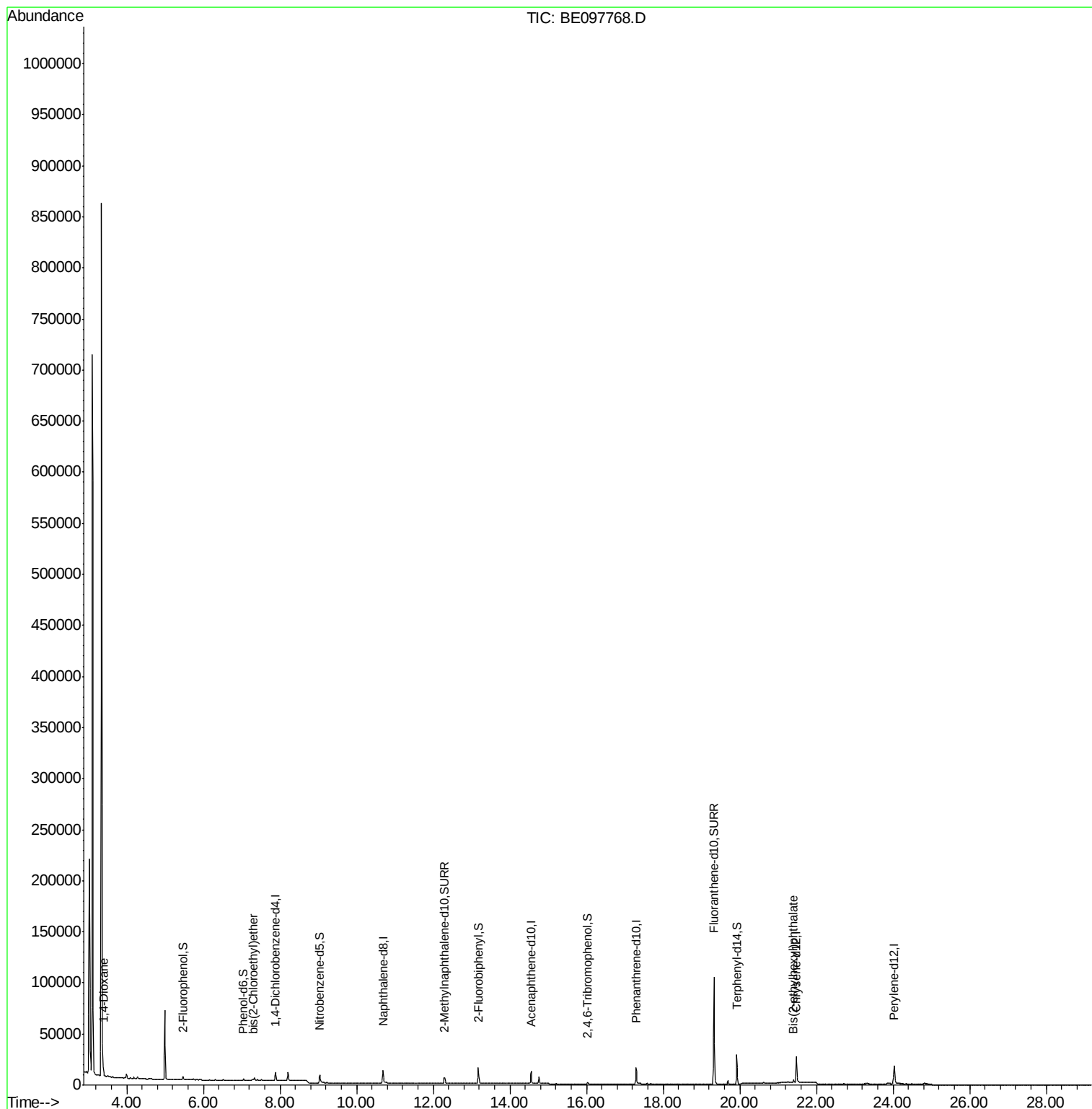
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.89  | 152  | 3731     | 0.40  | ng    | -0.01    |
| 7) Naphthalene-d8              | 10.69 | 136  | 14972    | 0.40  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.56 | 164  | 8122     | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.29 | 188  | 23312    | 0.40  | ng    | -0.01    |
| 27) Chrysene-d12               | 21.48 | 240  | 30595    | 0.40  | ng    | -0.01    |
| 34) Perylene-d12               | 24.03 | 264  | 28787    | 0.40  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.47  | 112  | 1739     | 0.20  | ng    | 0.00     |
| 5) Phenol-d6                   | 7.05  | 99   | 1372     | 0.10  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 9.04  | 82   | 3930     | 0.81  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.30 | 152  | 9685     | 0.41  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 16.03 | 330  | 816      | 0.55  | ng    | -0.01    |
| 15) 2-Fluorobiphenyl           | 13.18 | 172  | 15778    | 0.44  | ng    | -0.01    |
| 25) Fluoranthene-d10           | 19.33 | 212  | 136290   | 0.46  | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.92 | 244  | 25788    | 0.41  | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.39  | 88   | 4560     | 0.613 | ng    | # 93     |
| 6) bis(2-Chloroethyl)ether     | 7.31  | 93   | 454      | 0.032 | ng    | # 90     |
| 32) Bis(2-ethylhexyl)phthalate | 21.40 | 149  | 3717     | 0.062 | ng    | # 98     |

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

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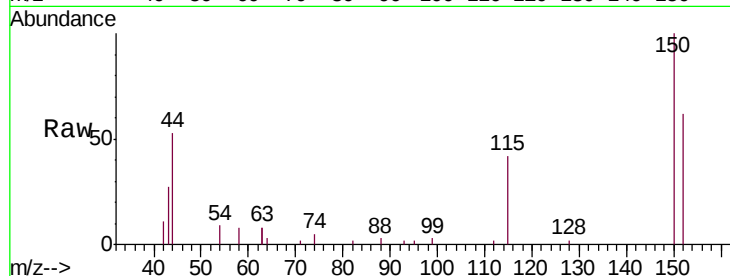


#1

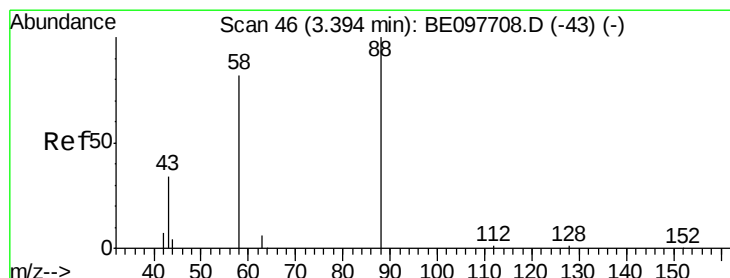
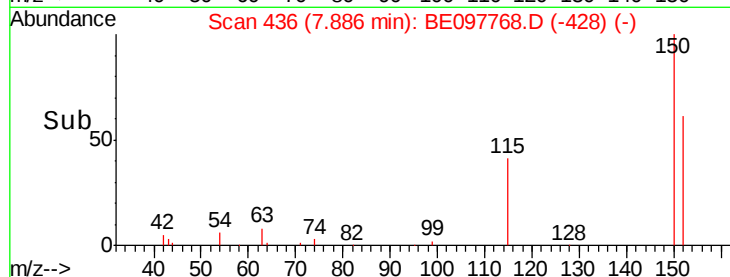
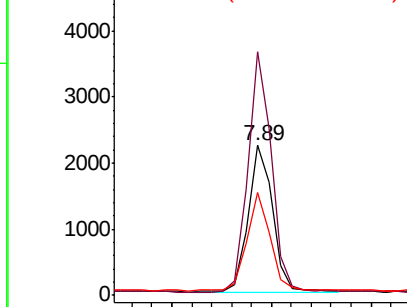
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.89 min Scan# 436  
Delta R.T. -0.01 min  
Lab File: BE097768.D  
Acq: 5 Oct 2018 23:11

Instrument :  
MSVOA\_V  
ClientSampleId :  
RE-103D2-20181003

Tgt Ion:152 Resp: 3731  
Ion Ratio Lower Upper  
152 100  
150 162.4 120.9 181.3  
115 68.2 46.6 69.8



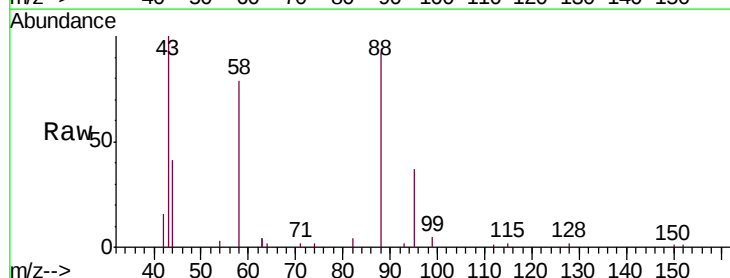
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



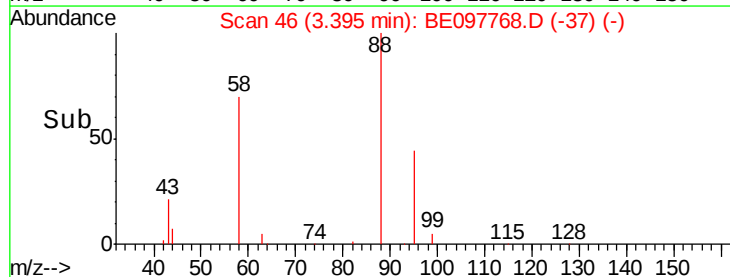
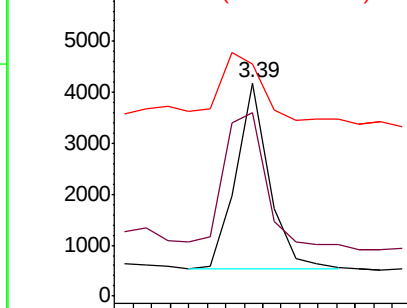
#2

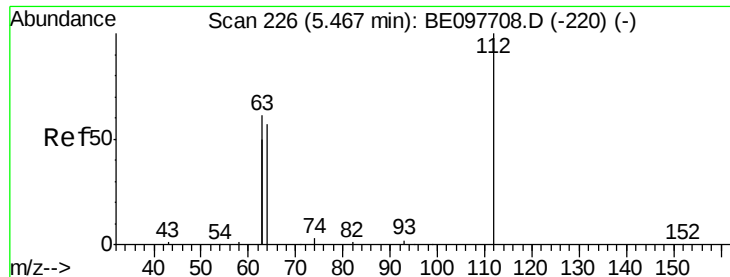
1,4-Dioxane  
Concen: 0.613 ng  
RT: 3.39 min Scan# 46  
Delta R.T. 0.00 min  
Lab File: BE097768.D  
Acq: 5 Oct 2018 23:11

Tgt Ion: 88 Resp: 4560  
Ion Ratio Lower Upper  
88 100  
58 86.3 70.8 106.2  
43 51.5 33.3 49.9#



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: 0.197 ng

RT: 5.47 min Scan# 226

Delta R.T. 0.00 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003

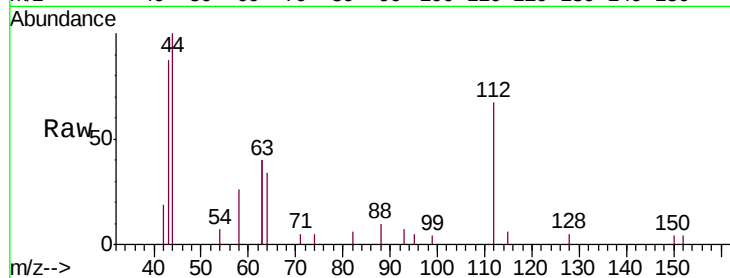
Tgt Ion: 112 Resp: 1739

Ion Ratio Lower Upper

112 100

64 75.3 56.6 84.8

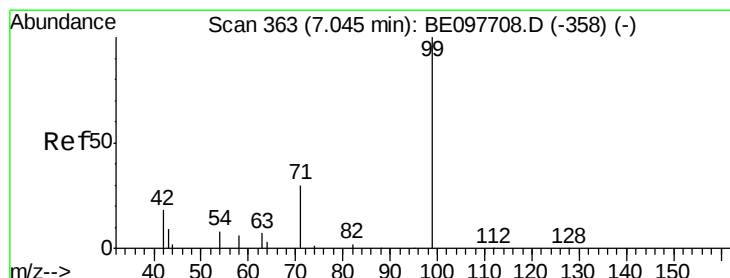
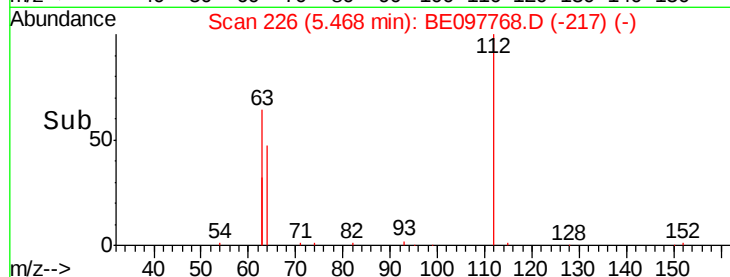
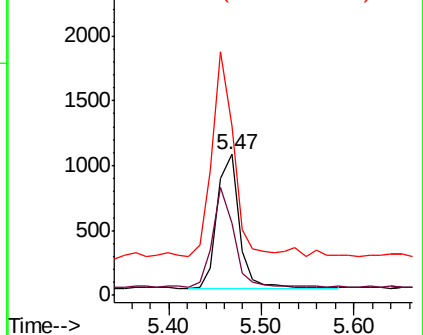
63 144.9 119.4 179.0



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: 0.101 ng

RT: 7.05 min Scan# 363

Delta R.T. 0.00 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

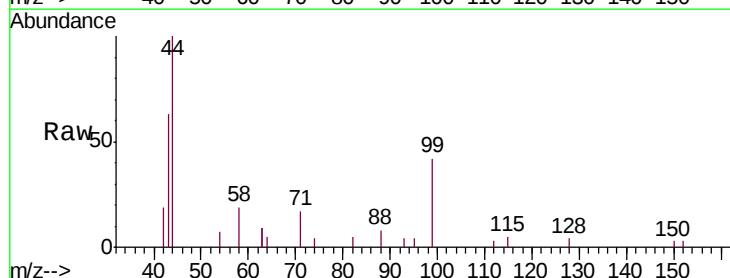
Tgt Ion: 99 Resp: 1372

Ion Ratio Lower Upper

99 100

42 24.6 19.9 29.9

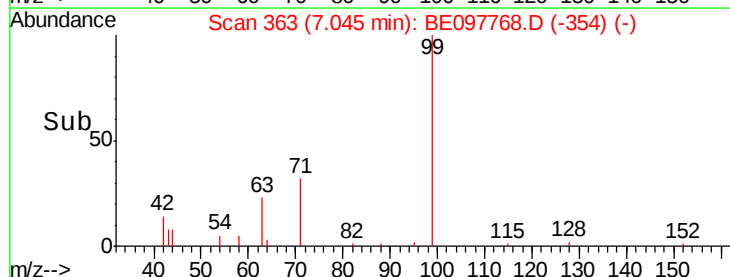
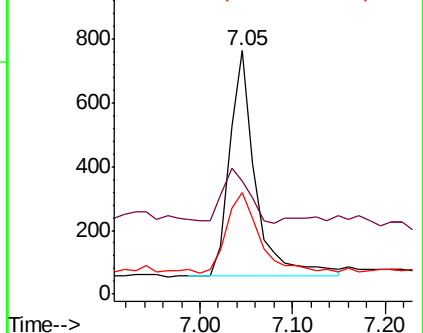
71 46.2 25.4 38.2#

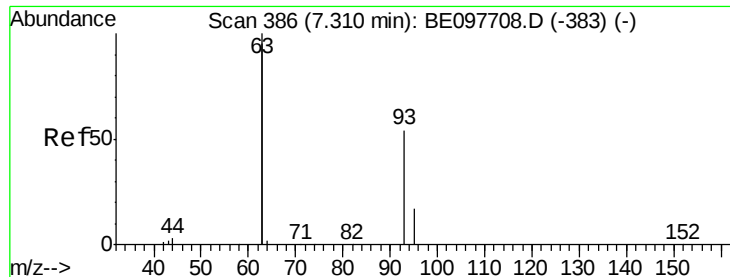


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.032 ng

RT: 7.31 min Scan# 386

Delta R.T. 0.00 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003

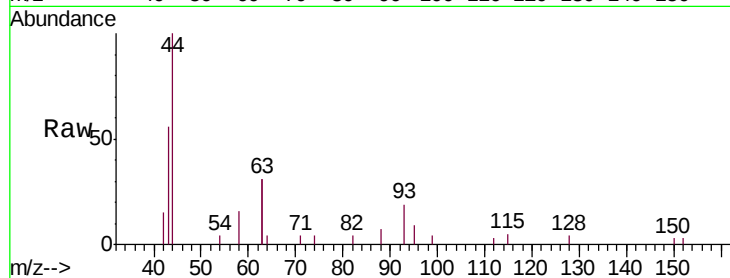
Tgt Ion: 93 Resp: 454

Ion Ratio Lower Upper

93 100

63 351.5 266.9 400.3

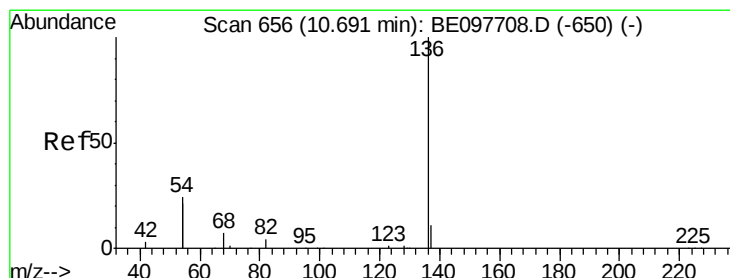
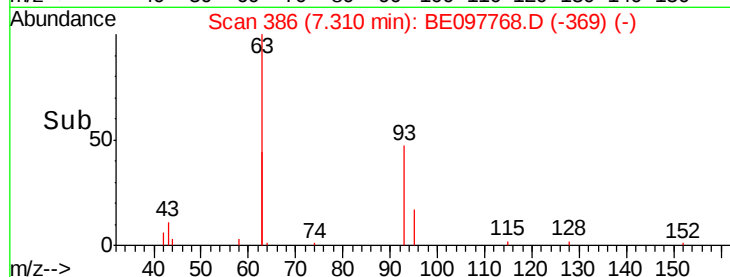
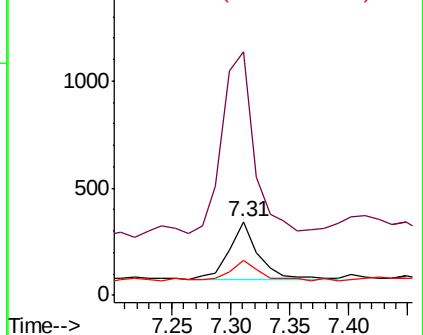
95 43.6 26.2 39.2#



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: 10.69 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Tgt Ion: 136 Resp: 14972

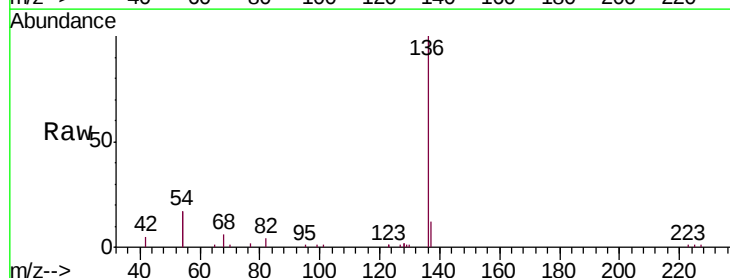
Ion Ratio Lower Upper

136 100

137 11.6 9.0 13.4

54 34.4 37.8 56.6#

68 6.3 6.4 9.6#

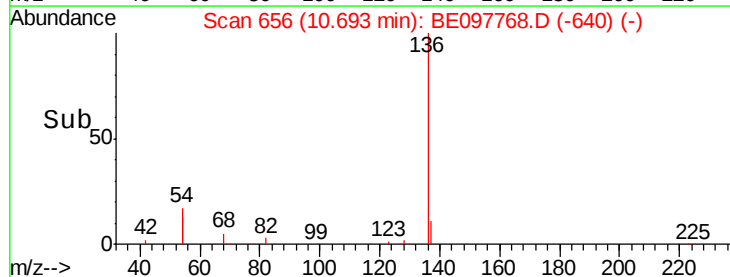
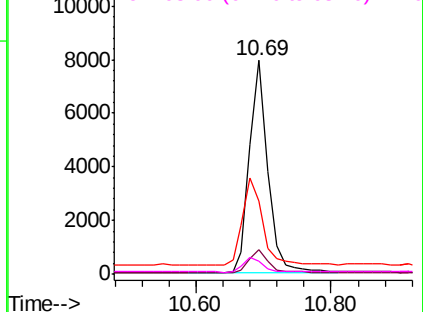


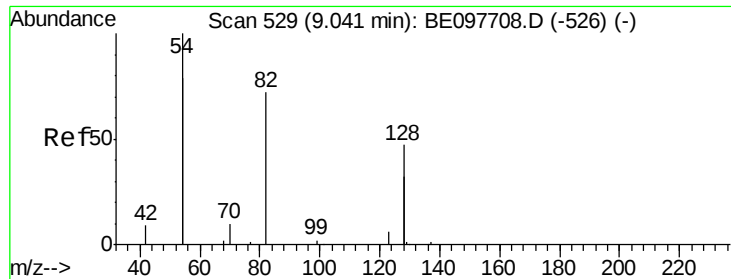
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.809 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.00 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003

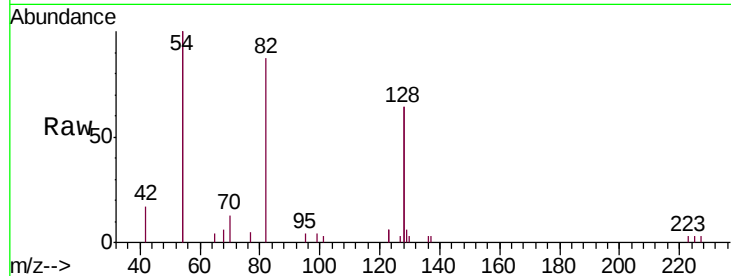
Tgt Ion: 82 Resp: 3930

Ion Ratio Lower Upper

82 100

128 147.4 97.0 145.4#

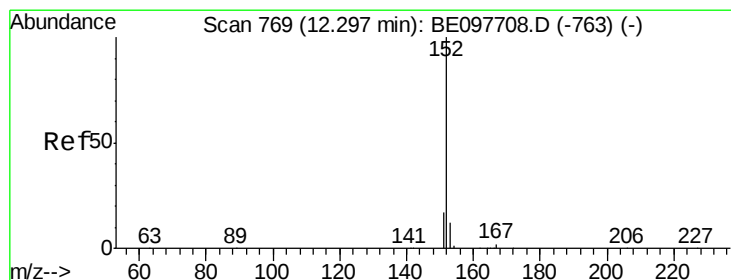
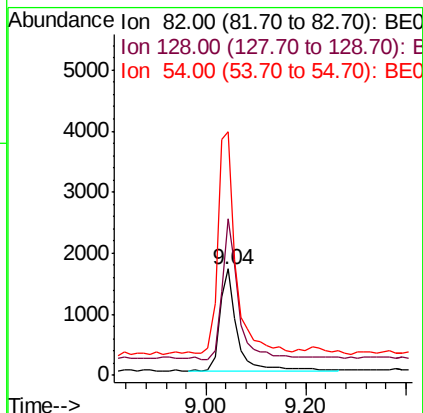
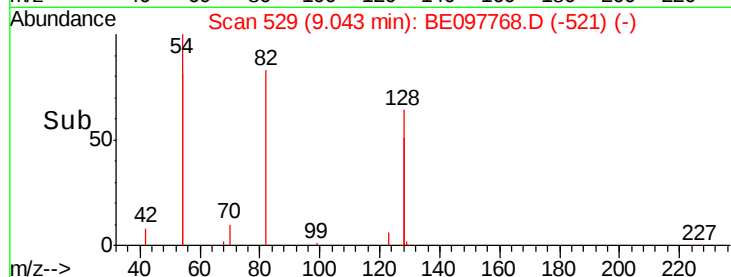
54 228.7 206.9 310.3



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



#11

2-Methylnaphthalene-d10

Concen: 0.407 ng

RT: 12.30 min Scan# 769

Delta R.T. -0.00 min

Lab File: BE097768.D

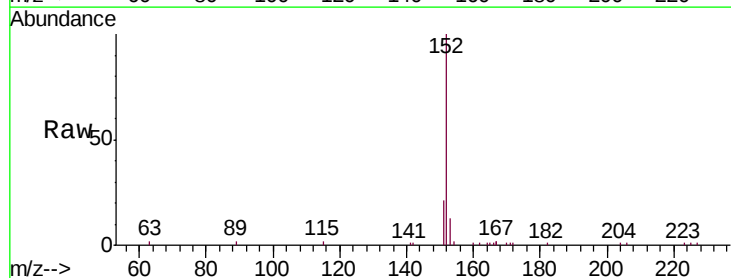
Acq: 5 Oct 2018 23:11

Tgt Ion: 152 Resp: 9685

Ion Ratio Lower Upper

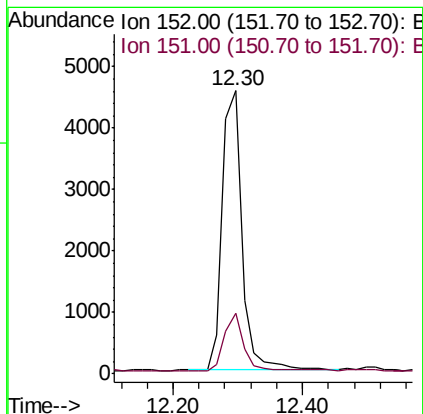
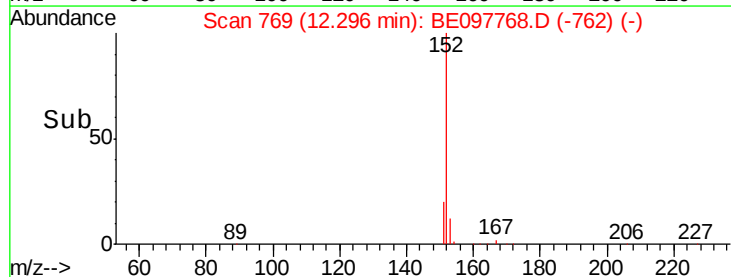
152 100

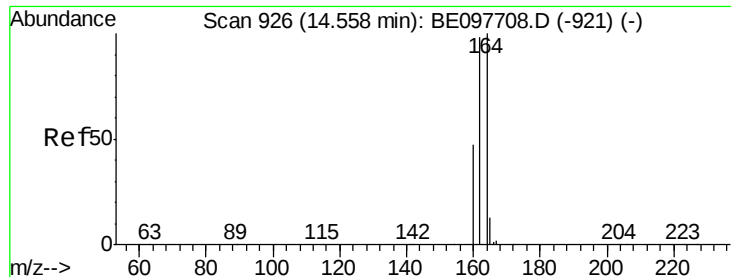
151 19.8 15.4 23.2



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: 14.56 min Scan# 926

Delta R.T. -0.00 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003

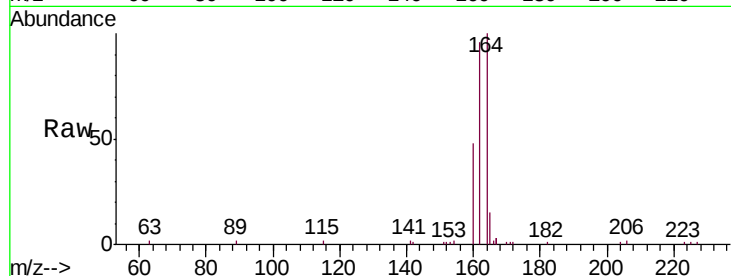
Tgt Ion:164 Resp: 8122

Ion Ratio Lower Upper

164 100

162 96.1 78.6 117.8

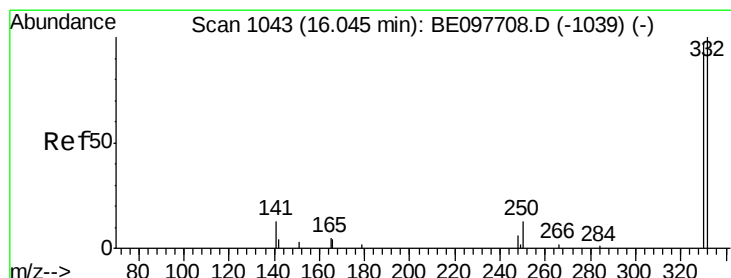
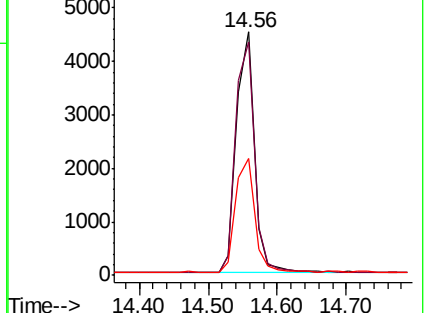
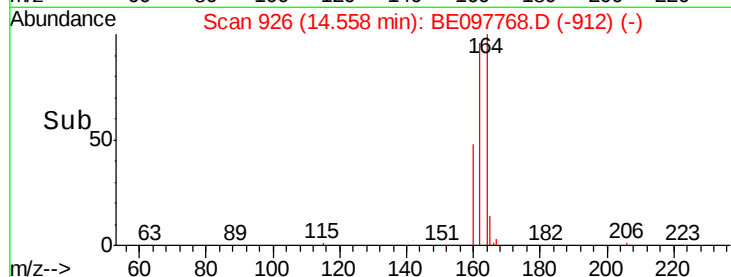
160 48.2 37.8 56.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.554 ng

RT: 16.03 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

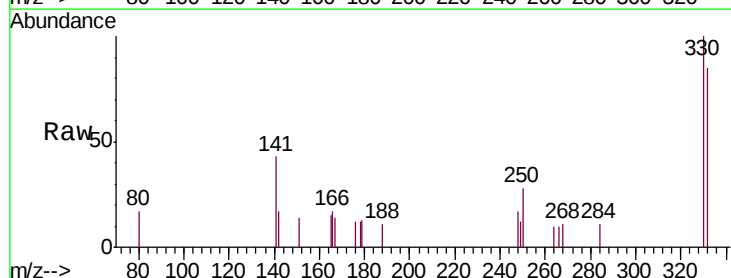
Tgt Ion:330 Resp: 816

Ion Ratio Lower Upper

330 100

332 94.5 83.5 125.3

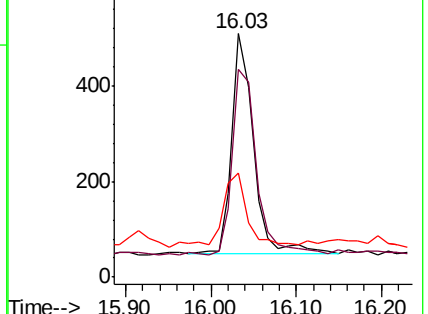
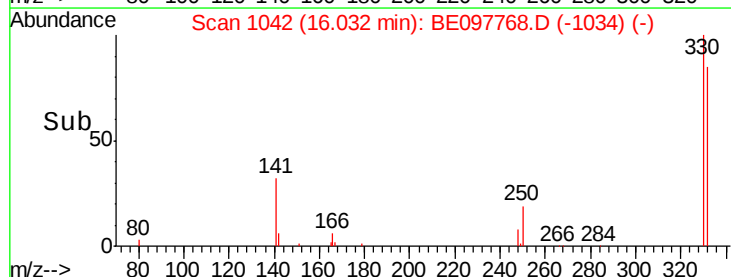
141 33.7 34.9 52.3#

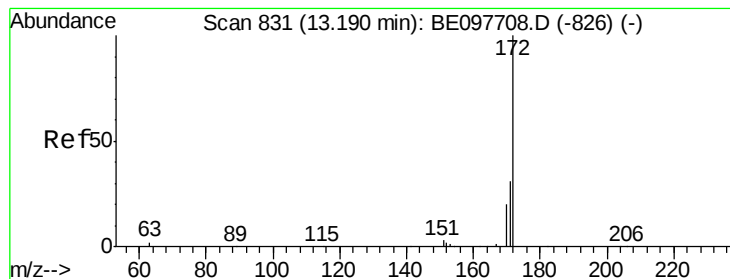


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.441 ng

RT: 13.18 min Scan# 830

Delta R.T. -0.01 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003

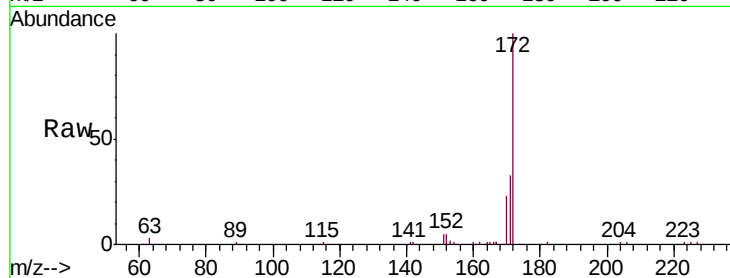
Tgt Ion:172 Resp: 15778

Ion Ratio Lower Upper

172 100

171 33.2 25.2 37.8

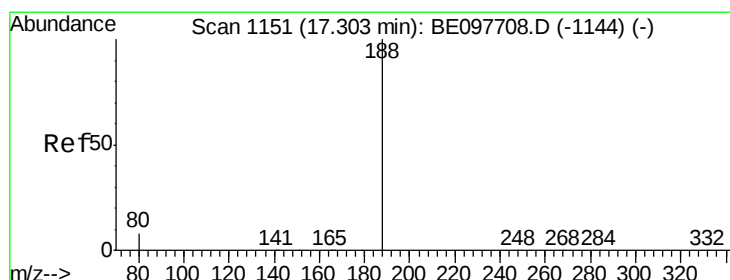
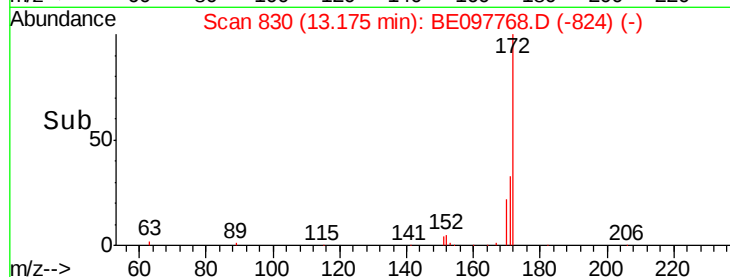
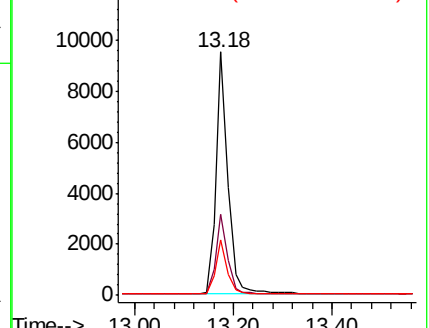
170 22.6 16.2 24.2



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: 17.29 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

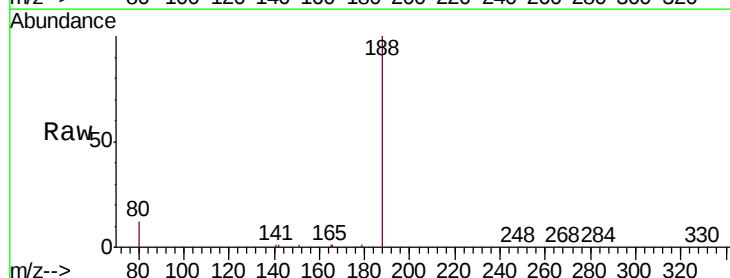
Tgt Ion:188 Resp: 23312

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

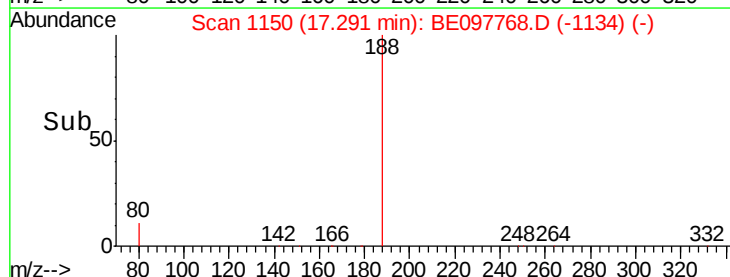
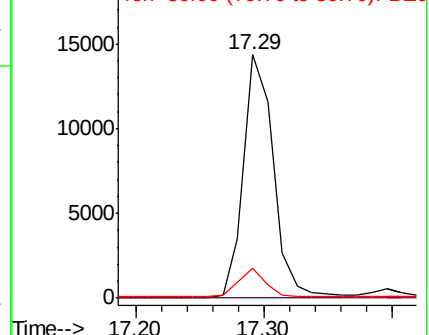
80 12.0 6.6 9.8#

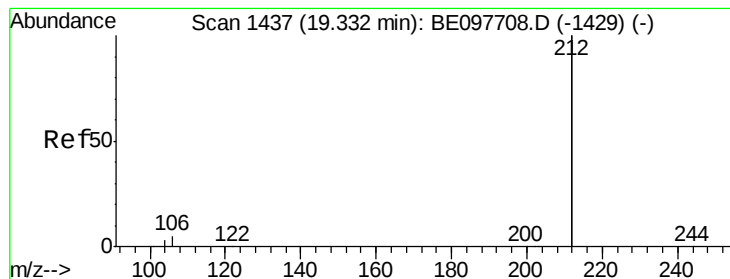


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#25

Fluoranthene-d10

Concen: 0.462 ng

RT: 19.33 min Scan# 1436

Delta R.T. -0.01 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003

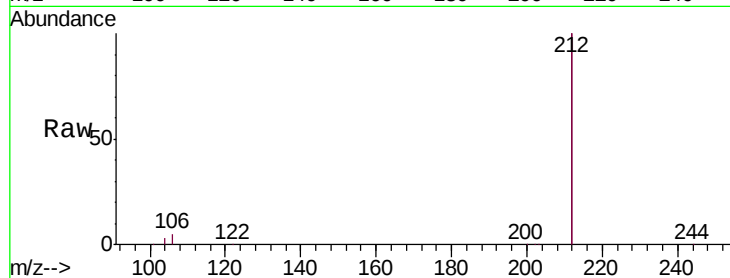
Tgt Ion:212 Resp: 136290

Ion Ratio Lower Upper

212 100

106 2.7 2.2 3.2

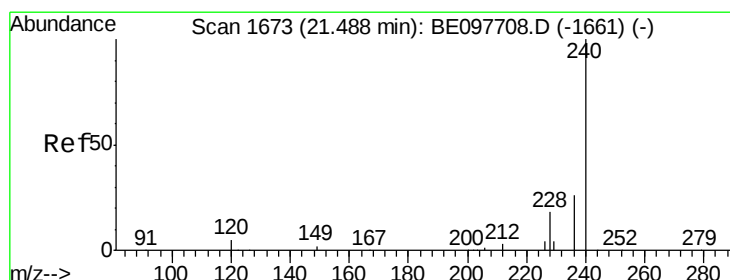
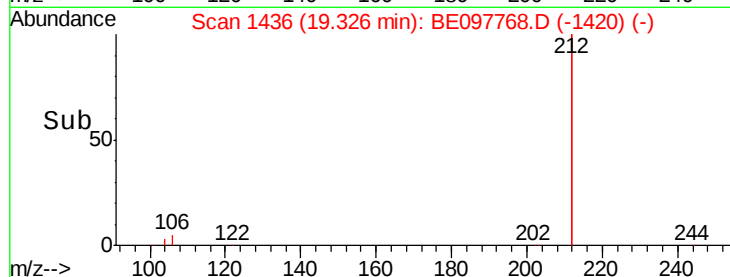
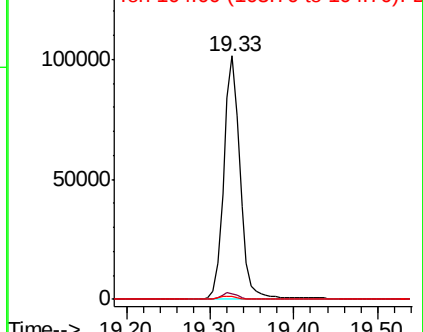
104 1.5 1.2 1.8



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: 21.48 min Scan# 1672

Delta R.T. -0.01 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

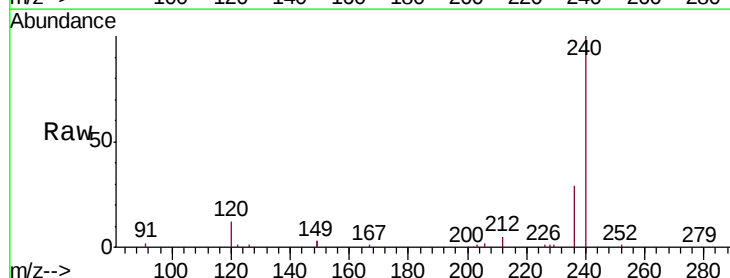
Tgt Ion:240 Resp: 30595

Ion Ratio Lower Upper

240 100

120 11.8 4.7 7.1#

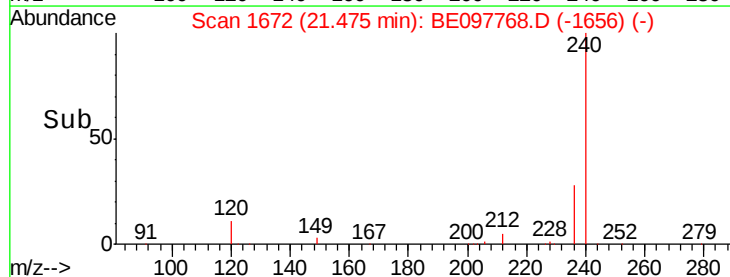
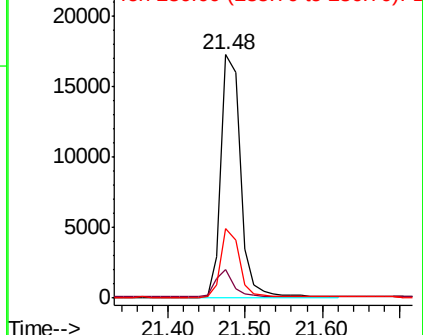
236 28.6 20.8 31.2

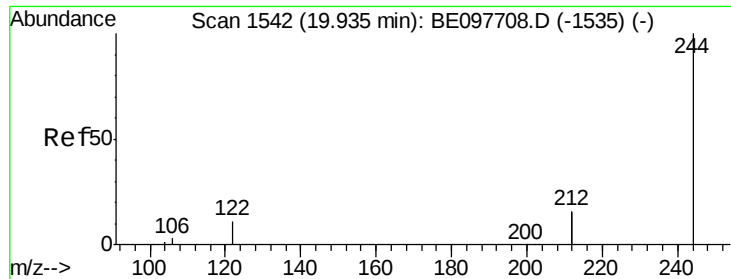


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.413 ng

RT: 19.92 min Scan# 1540

Delta R.T. -0.01 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003

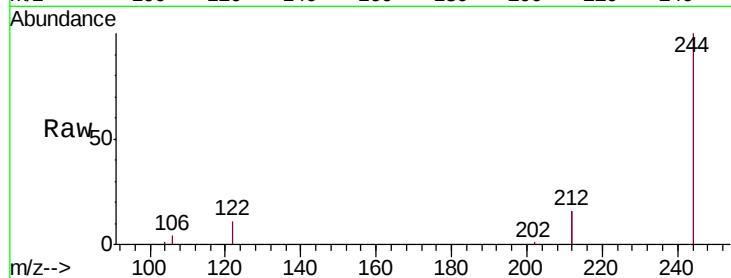
Tgt Ion:244 Resp: 25788

Ion Ratio Lower Upper

244 100

212 31.7 25.8 38.8

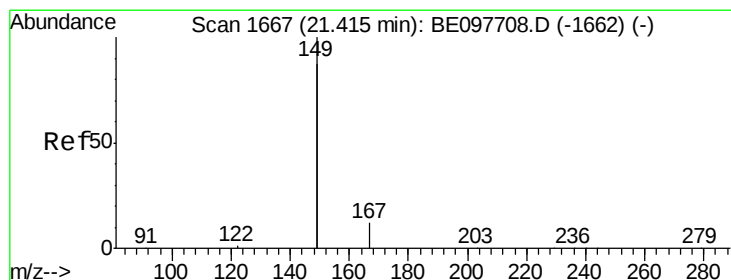
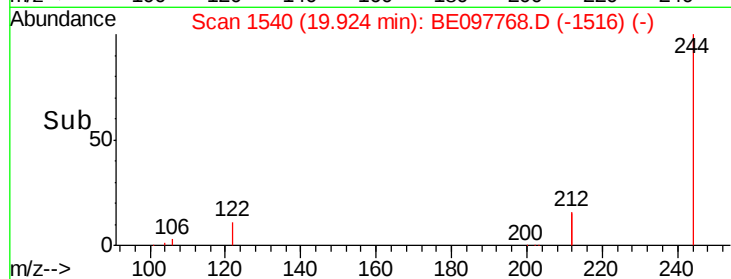
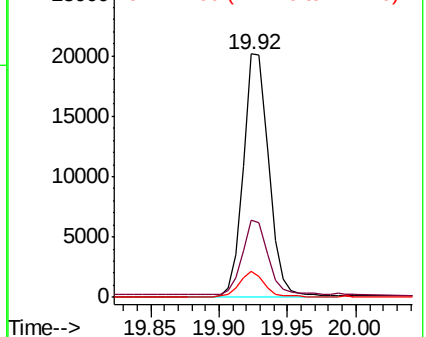
122 10.8 8.7 13.1



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: 0.062 ng

RT: 21.40 min Scan# 1666

Delta R.T. -0.01 min

Lab File: BE097768.D

Acq: 5 Oct 2018 23:11

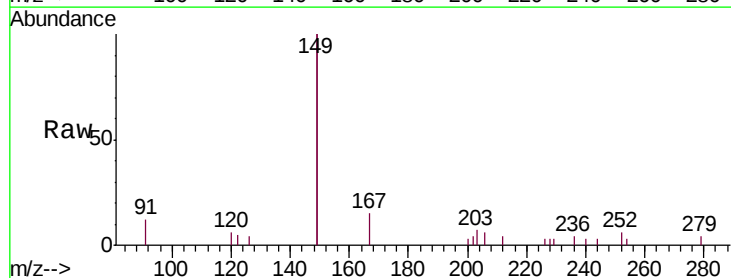
Tgt Ion:149 Resp: 3717

Ion Ratio Lower Upper

149 100

167 7.6 5.5 8.3

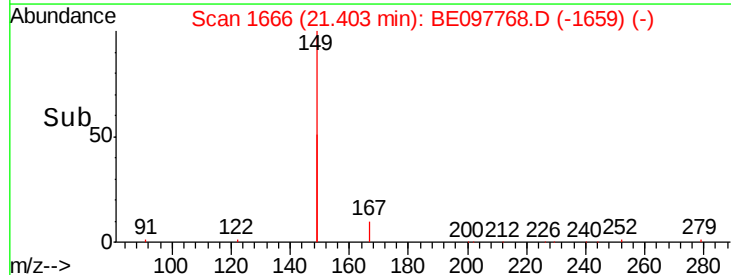
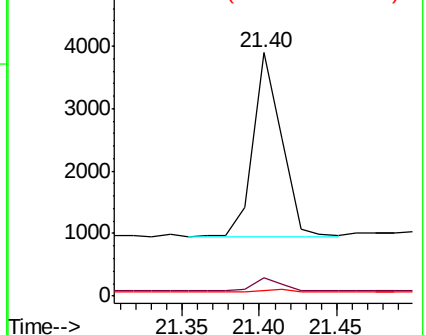
279 1.9 0.9 1.3#

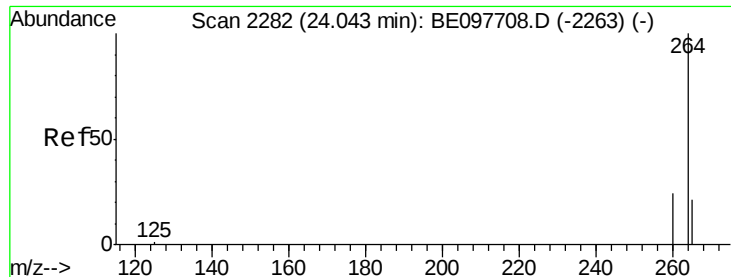


Abundance Ion 149.00 (148.70 to 149.70): E

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: 24.03 min Scan# 2278

Delta R.T. -0.01 min

Lab File: BE097768.D

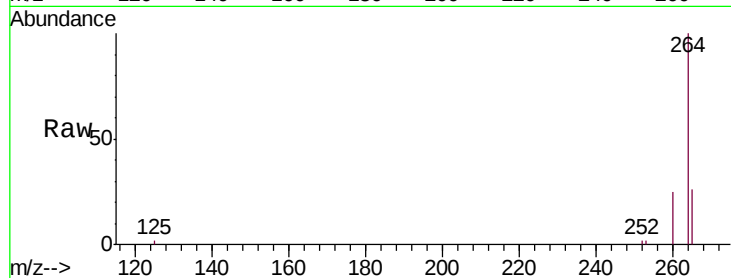
Acq: 5 Oct 2018 23:11

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D2-20181003



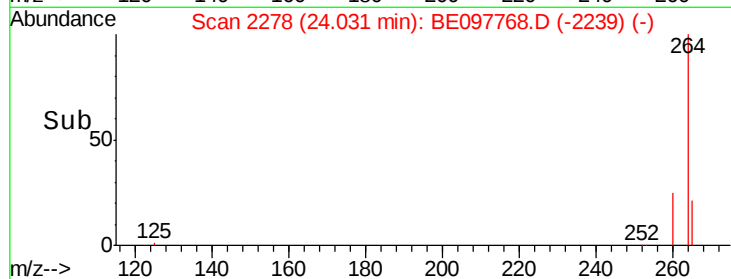
Tgt Ion: 264 Resp: 28787

Ion Ratio Lower Upper

264 100

260 25.5 19.1 28.7

265 26.1 21.9 32.9



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

