

Data File : BE097769.D  
Acq On : 5 Oct 2018 23:47  
Operator : SJ/JU  
Sample : J5284-12  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
RE-103D1-20181003

Quant Time: Oct 06 04:21:12 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

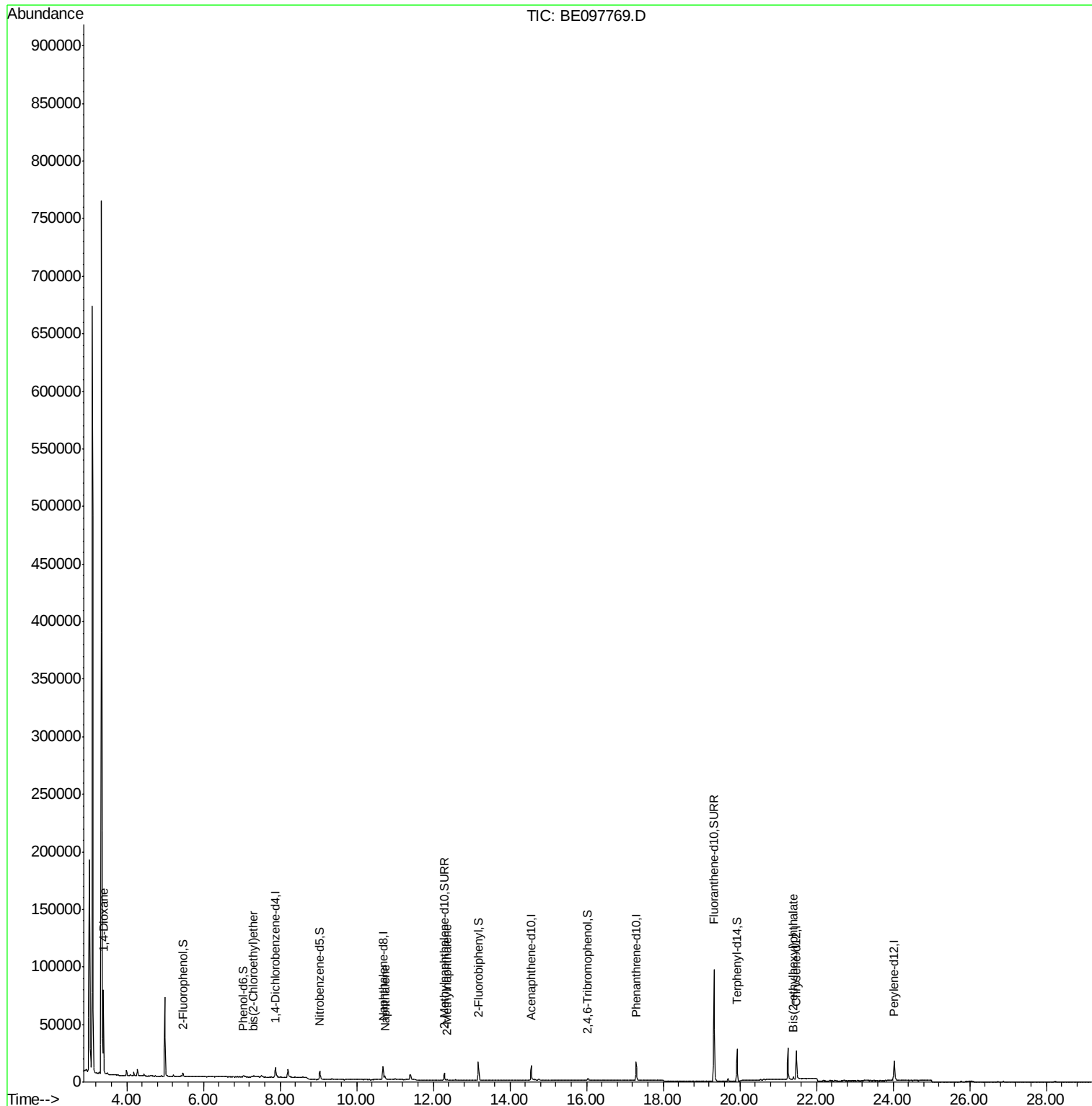
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.89  | 152  | 3520     | 0.40  | ng    | -0.01    |
| 7) Naphthalene-d8              | 10.69 | 136  | 14170    | 0.40  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.56 | 164  | 8068     | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.29 | 188  | 22924    | 0.40  | ng    | -0.01    |
| 27) Chrysene-d12               | 21.48 | 240  | 28524    | 0.40  | ng    | -0.01    |
| 34) Perylene-d12               | 24.03 | 264  | 26290    | 0.40  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.47  | 112  | 1665     | 0.20  | ng    | 0.00     |
| 5) Phenol-d6                   | 7.05  | 99   | 1314     | 0.10  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 9.04  | 82   | 3487     | 0.76  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.29 | 152  | 9457     | 0.42  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 16.03 | 330  | 768      | 0.53  | ng    | -0.01    |
| 15) 2-Fluorobiphenyl           | 13.17 | 172  | 15581    | 0.44  | ng    | -0.02    |
| 25) Fluoranthene-d10           | 19.33 | 212  | 131110   | 0.45  | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.93 | 244  | 25037    | 0.43  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 3.39  | 88   | 44620    | 6.362 | ng    | 97       |
| 6) bis(2-Chloroethyl)ether     | 7.31  | 93   | 417      | 0.032 | ng    | 82       |
| 9) Naphthalene                 | 10.74 | 128  | 5905     | 0.041 | ng    | # 96     |
| 12) 2-Methylnaphthalene        | 12.37 | 142  | 620      | 0.027 | ng    | # 84     |
| 32) Bis(2-ethylhexyl)phthalate | 21.40 | 149  | 2410     | 0.043 | ng    | # 96     |

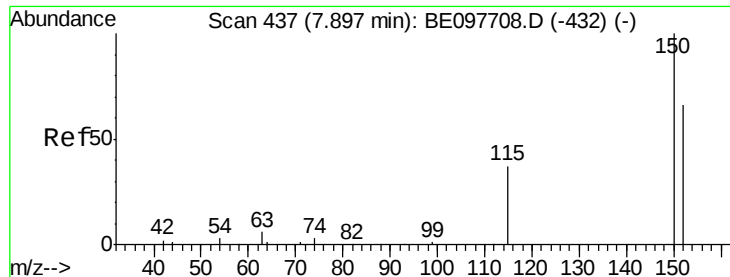
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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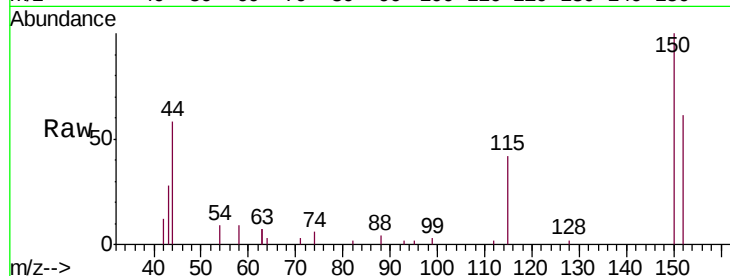


#1

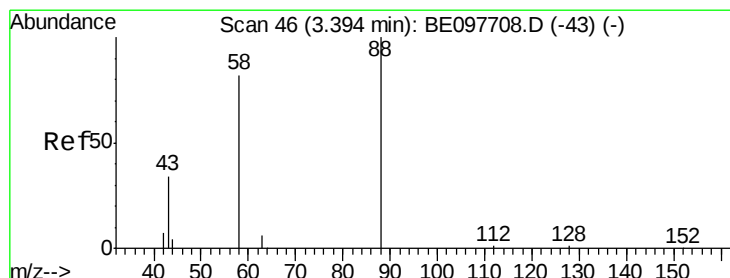
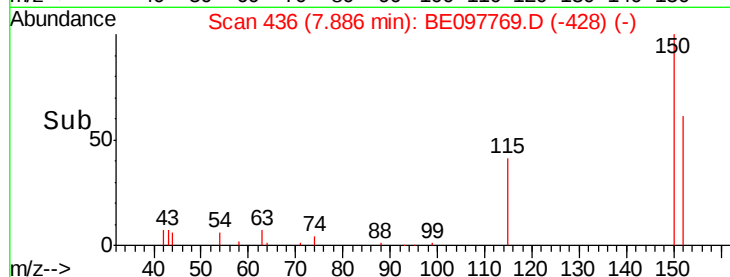
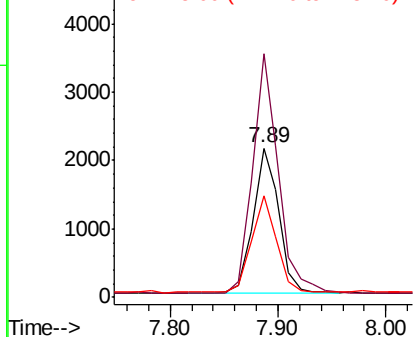
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.89 min Scan# 436  
Delta R.T. -0.01 min  
Lab File: BE097769.D  
Acq: 5 Oct 2018 23:47

Instrument :  
MSVOA\_V  
ClientSampleId :  
RE-103D1-20181003

Tgt Ion:152 Resp: 3520  
Ion Ratio Lower Upper  
152 100  
150 162.9 120.9 181.3  
115 68.1 46.6 69.8



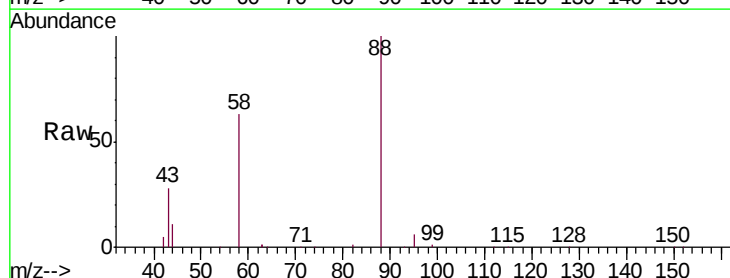
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



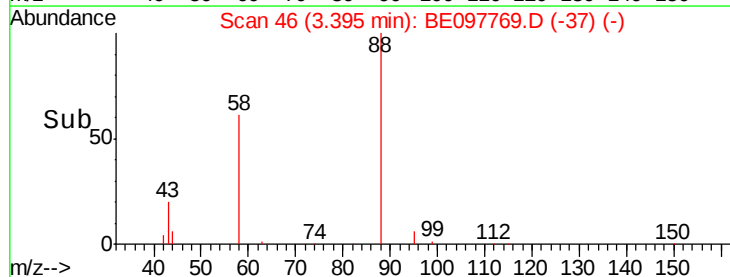
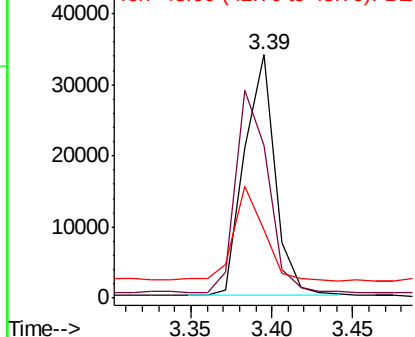
#2

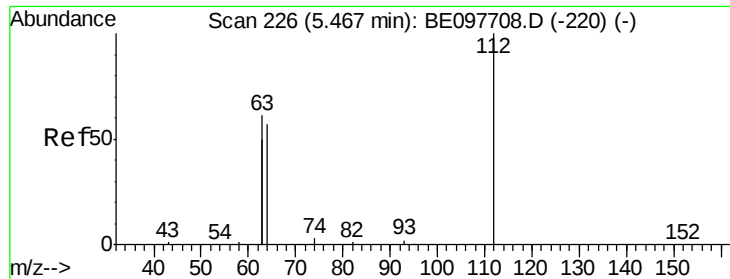
1,4-Dioxane  
Concen: 6.362 ng  
RT: 3.39 min Scan# 46  
Delta R.T. 0.00 min  
Lab File: BE097769.D  
Acq: 5 Oct 2018 23:47

Tgt Ion: 88 Resp: 44620  
Ion Ratio Lower Upper  
88 100  
58 86.3 70.8 106.2  
43 38.7 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: 0.200 ng

RT: 5.47 min Scan# 226

Delta R.T. 0.00 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D1-20181003

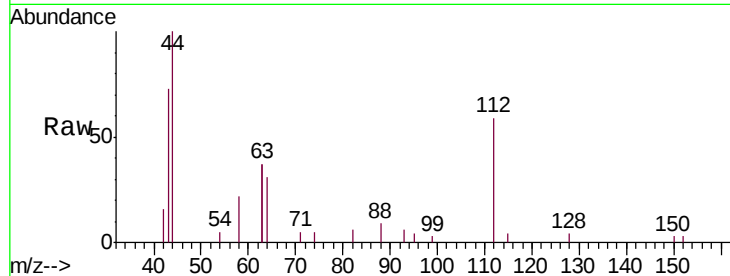
Tgt Ion: 112 Resp: 1665

Ion Ratio Lower Upper

112 100

64 68.0 56.6 84.8

63 141.7 119.4 179.0

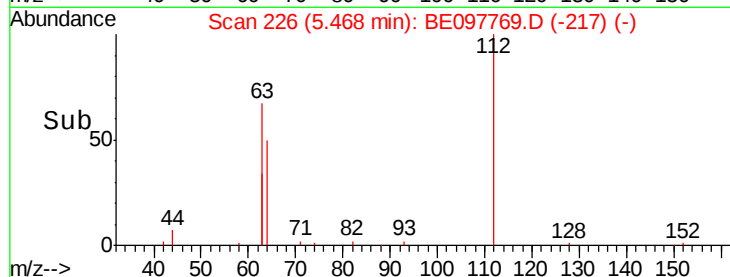


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Time--> 5.35 5.40 5.45 5.50 5.55

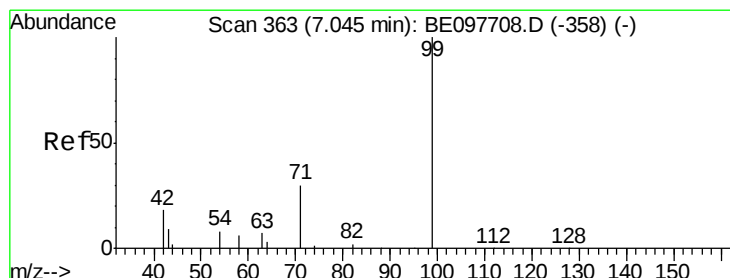


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Time--> 5.35 5.40 5.45 5.50 5.55



#5

Phenol-d6

Concen: 0.103 ng

RT: 7.05 min Scan# 363

Delta R.T. 0.00 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

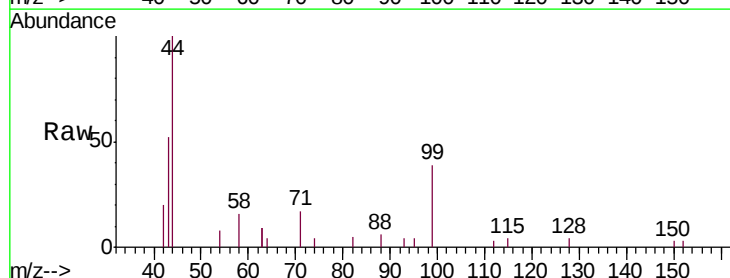
Tgt Ion: 99 Resp: 1314

Ion Ratio Lower Upper

99 100

42 36.0 19.9 29.9#

71 41.2 25.4 38.2#

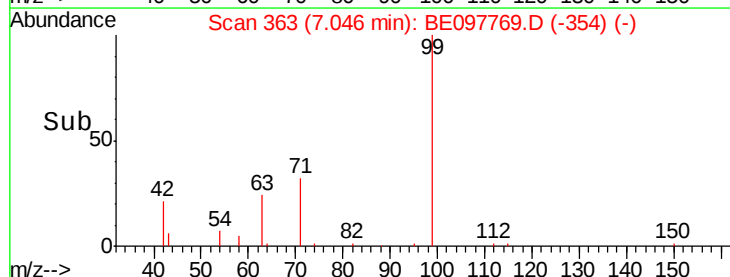


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time--> 7.00 7.10 7.20

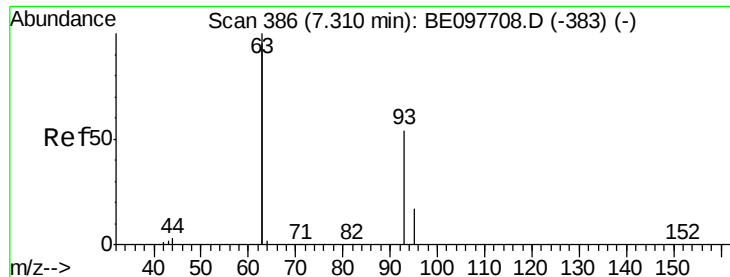


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time--> 7.00 7.10 7.20



#6

bis(2-Chloroethyl)ether

Concen: 0.032 ng

RT: 7.31 min Scan# 386

Delta R.T. 0.00 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D1-20181003

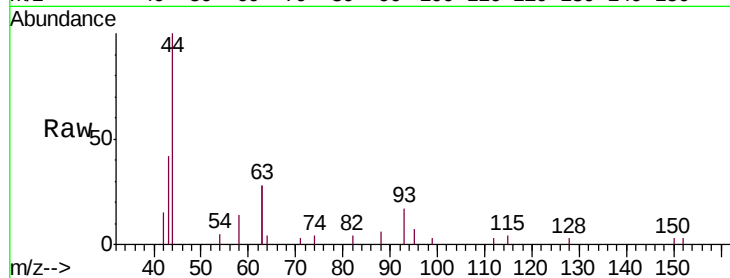
Tgt Ion: 93 Resp: 417

Ion Ratio Lower Upper

93 100

63 374.6 266.9 400.3

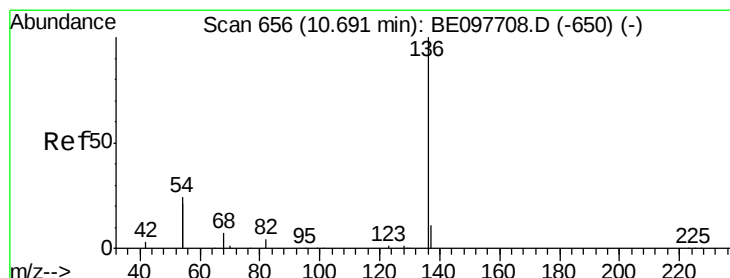
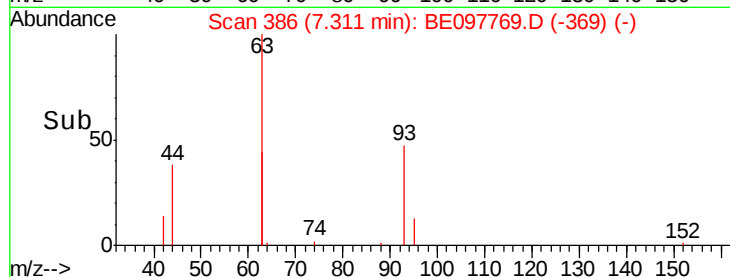
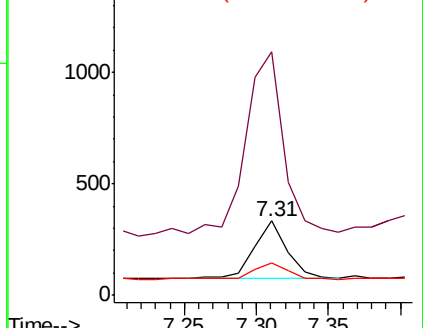
95 32.9 26.2 39.2



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: BE097769.D

Acq: 5 Oct 2018 23:47

Tgt Ion: 136 Resp: 14170

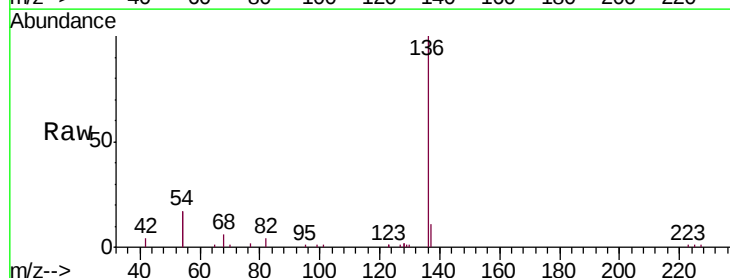
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 33.4 37.8 56.6#

68 6.0 6.4 9.6#

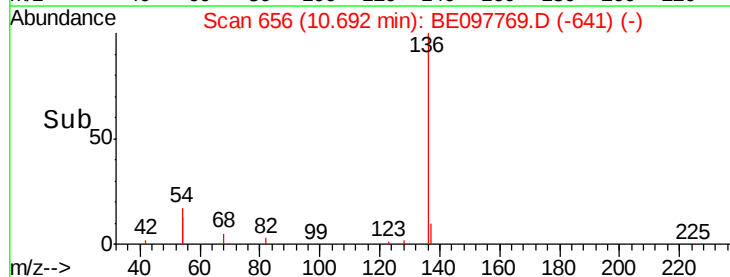
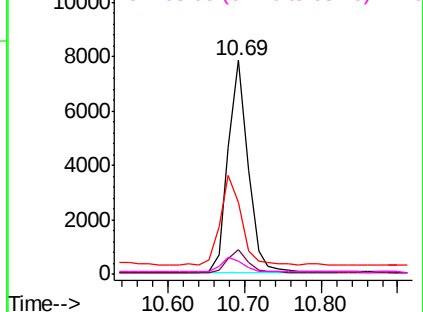


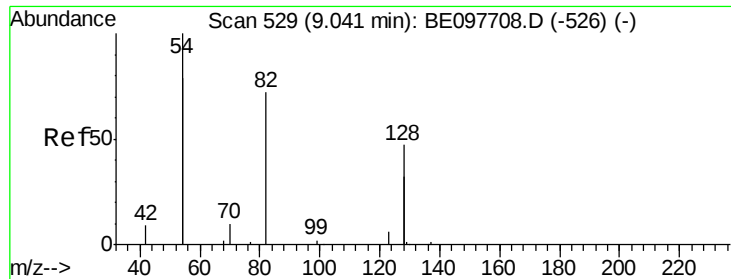
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.758 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.00 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D1-20181003

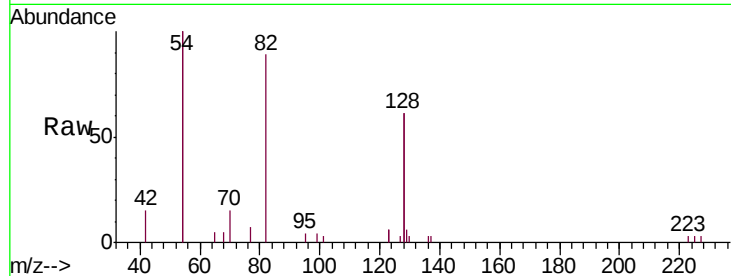
Tgt Ion: 82 Resp: 3487

Ion Ratio Lower Upper

82 100

128 137.6 97.0 145.4

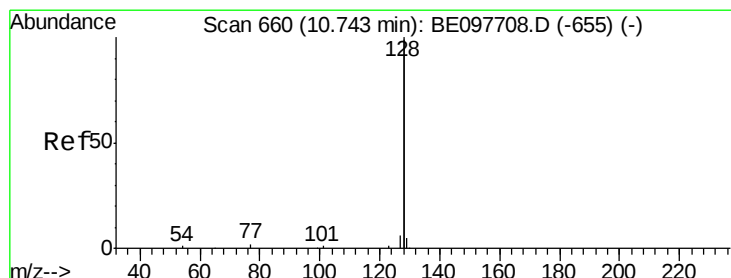
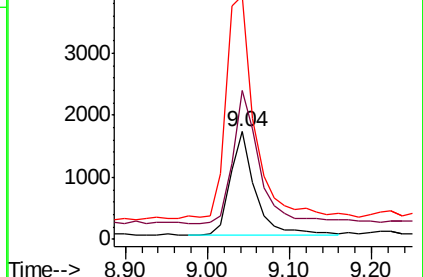
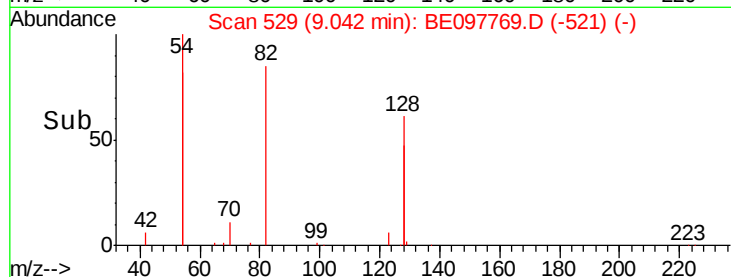
54 225.8 206.9 310.3



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



#9

Naphthalene

Concen: 0.041 ng

RT: 10.74 min Scan# 660

Delta R.T. 0.00 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

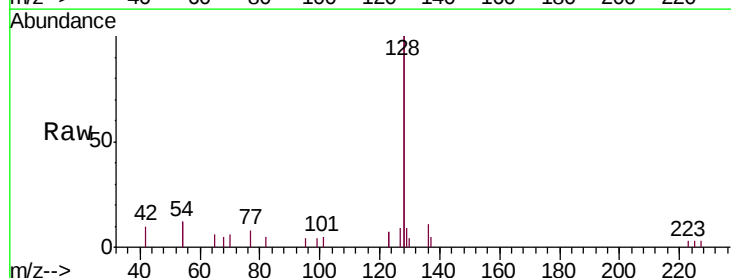
Tgt Ion: 128 Resp: 5905

Ion Ratio Lower Upper

128 100

129 4.5 2.2 3.2#

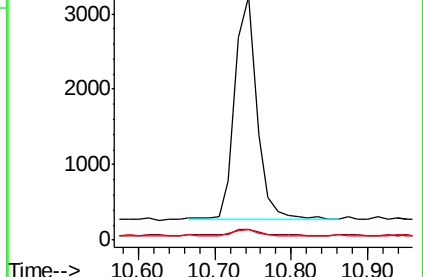
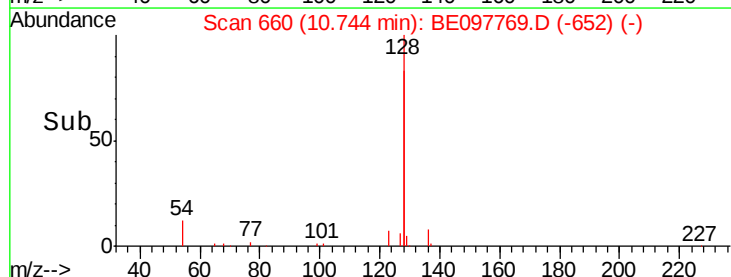
127 4.6 2.7 4.1#

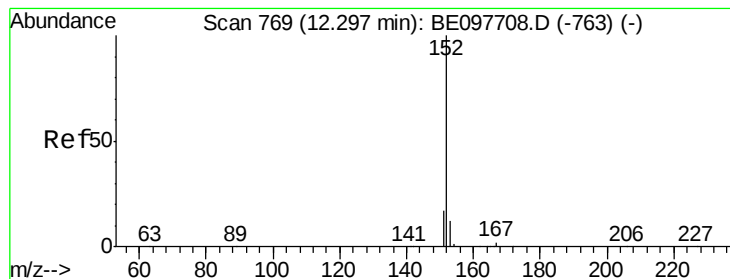


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.419 ng

RT: 12.29 min Scan# 769

Delta R.T. -0.00 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

Instrument :

MSVOA\_V

ClientSampleId :

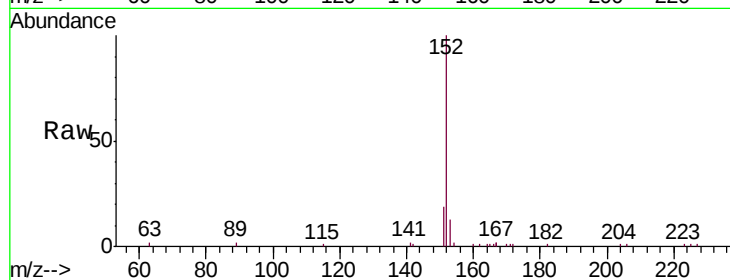
RE-103D1-20181003

Tgt Ion:152 Resp: 9457

Ion Ratio Lower Upper

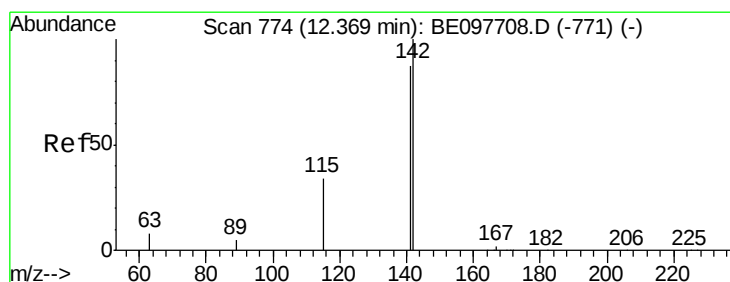
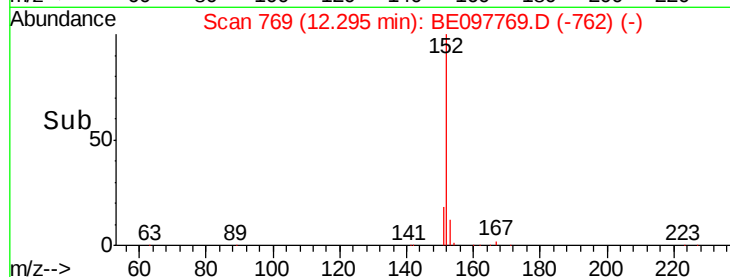
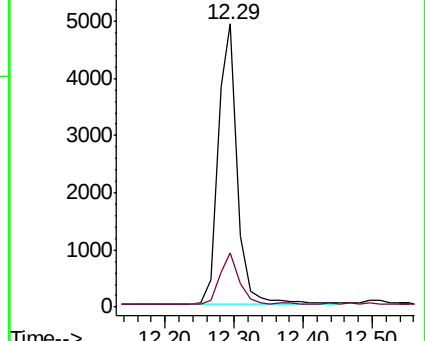
152 100

151 18.1 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.027 ng

RT: 12.37 min Scan# 774

Delta R.T. -0.00 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

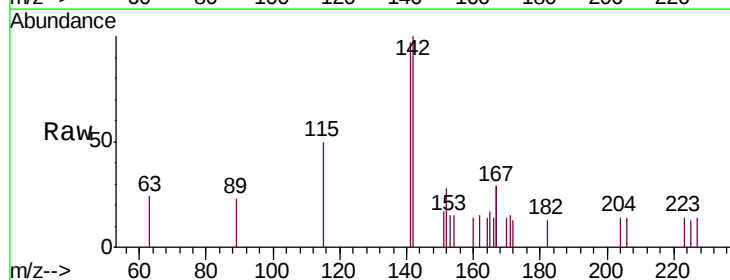
Tgt Ion:142 Resp: 620

Ion Ratio Lower Upper

142 100

141 97.4 69.4 104.2

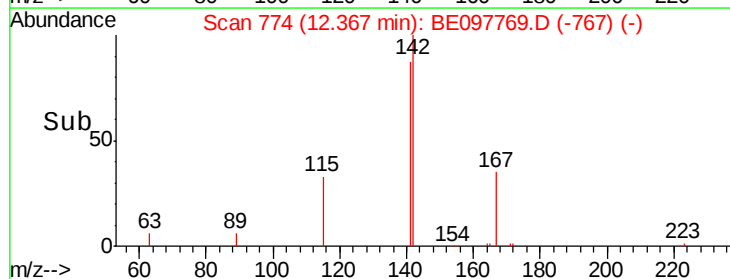
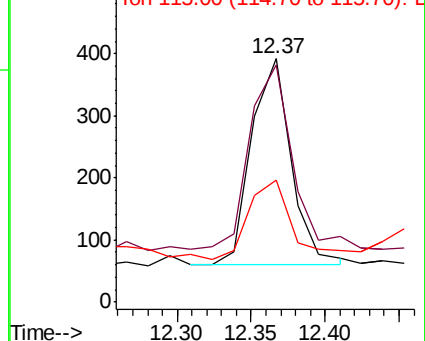
115 50.3 28.0 42.0#

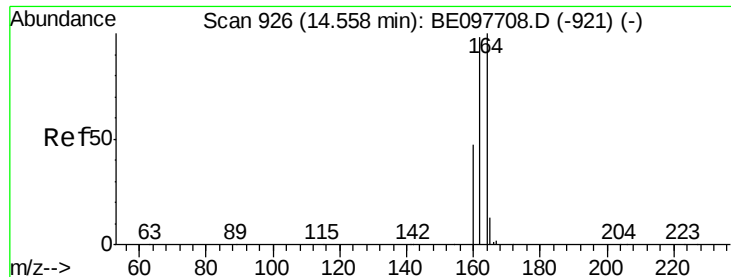


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

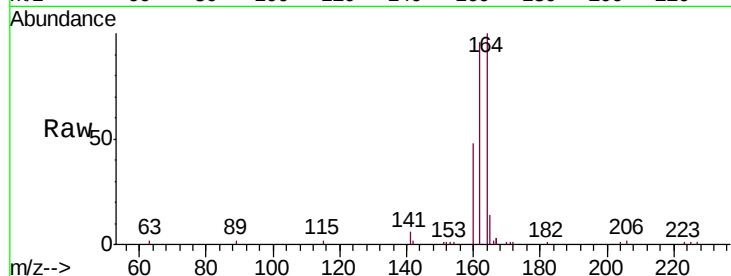




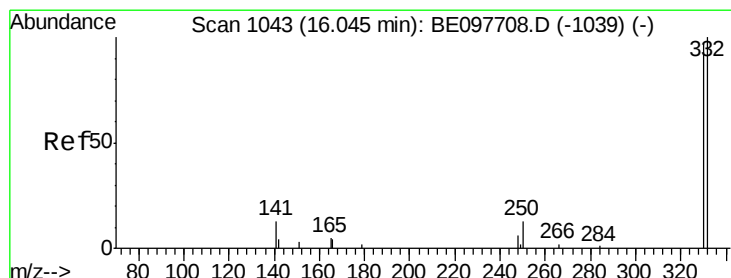
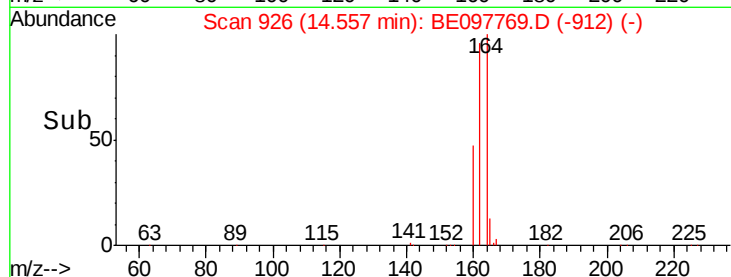
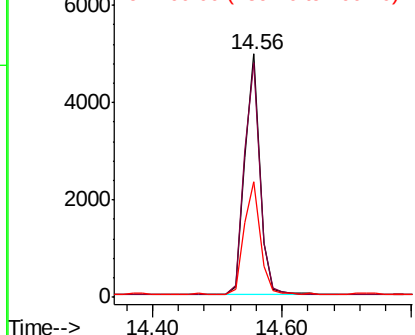
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.56 min Scan# 926  
Delta R.T. -0.00 min  
Lab File: BE097769.D  
Acq: 5 Oct 2018 23:47

Instrument :  
MSVOA\_V  
ClientSampleId :  
RE-103D1-20181003

Tgt Ion:164 Resp: 8068  
Ion Ratio Lower Upper  
164 100  
162 96.4 78.6 117.8  
160 47.7 37.8 56.6

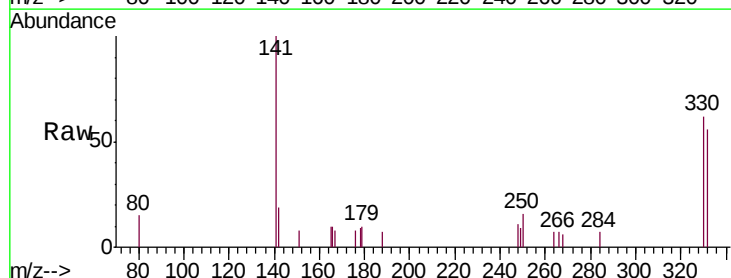


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

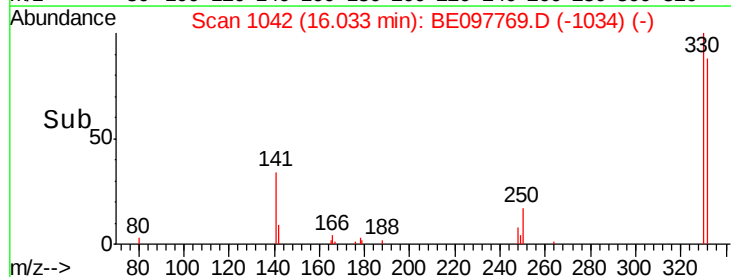
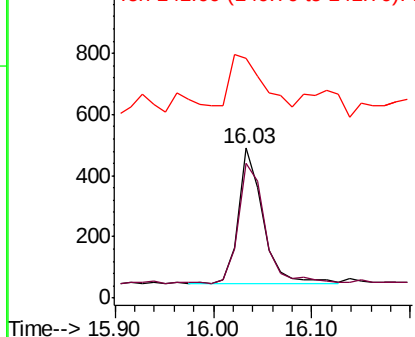


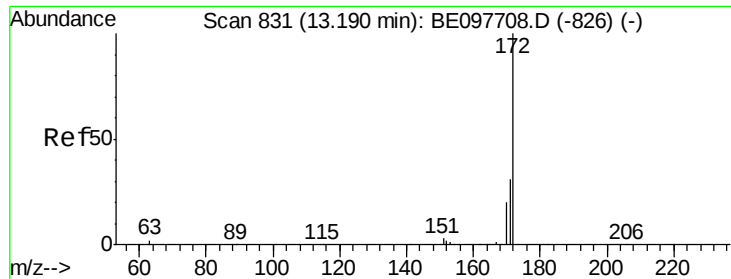
#14  
2,4,6-Tribromophenol  
Concen: 0.525 ng  
RT: 16.03 min Scan# 1042  
Delta R.T. -0.01 min  
Lab File: BE097769.D  
Acq: 5 Oct 2018 23:47

Tgt Ion:330 Resp: 768  
Ion Ratio Lower Upper  
330 100  
332 93.6 83.5 125.3  
141 47.5 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

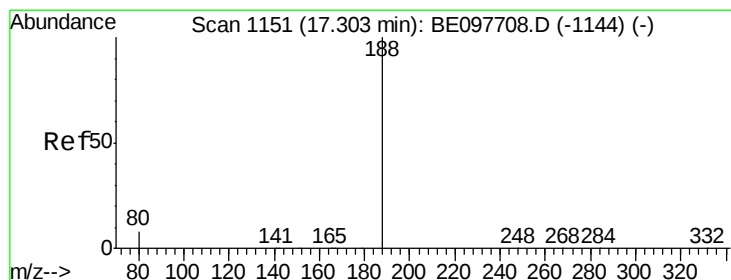
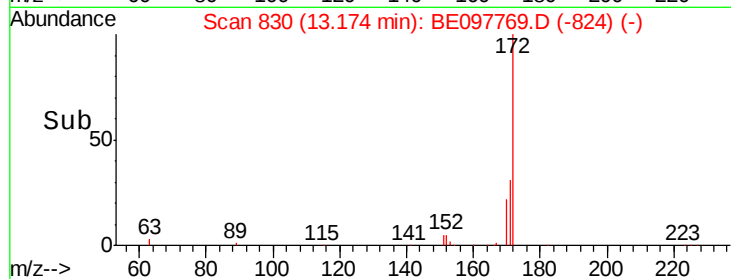
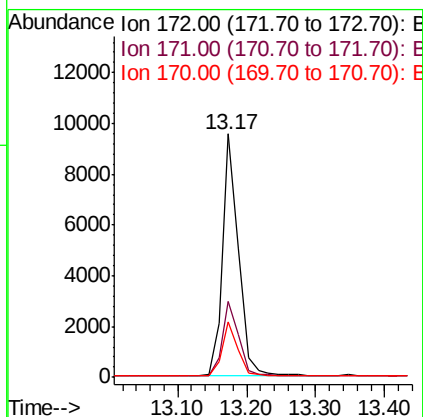
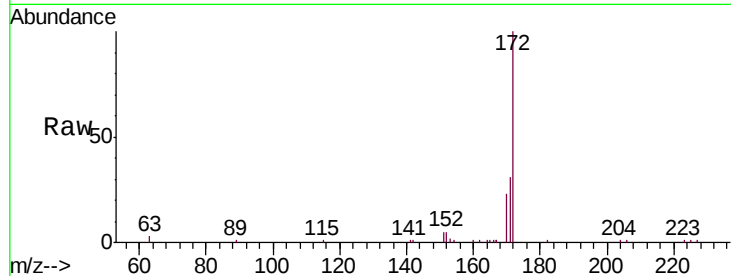




#15  
2-Fluorobiphenyl  
Concen: 0.439 ng  
RT: 13.17 min Scan# 830  
Delta R.T. -0.02 min  
Lab File: BE097769.D  
Acq: 5 Oct 2018 23:47

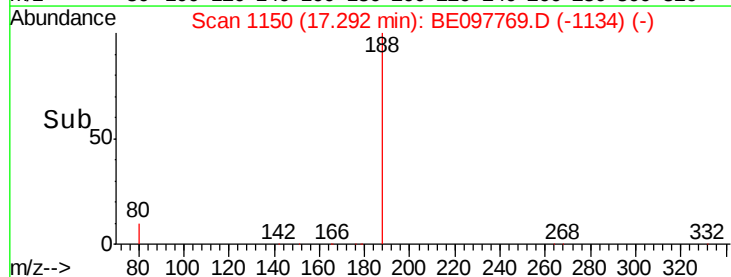
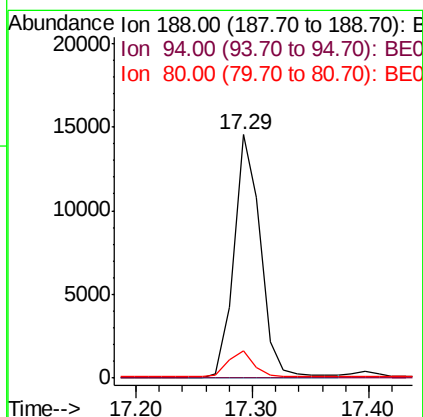
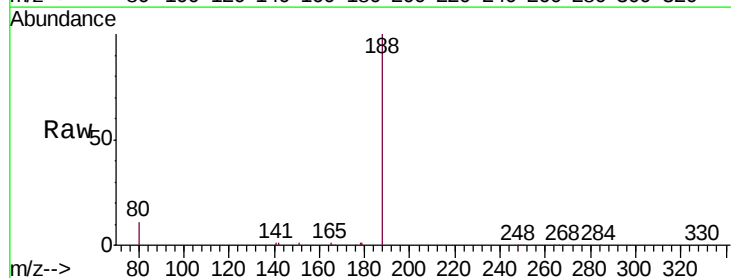
Instrument :  
MSVOA\_V  
ClientSampleId :  
RE-103D1-20181003

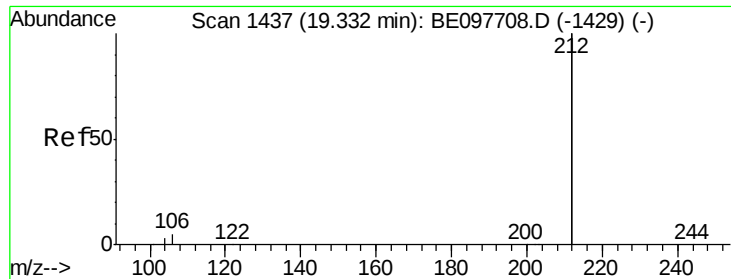
Tgt Ion:172 Resp: 15581  
Ion Ratio Lower Upper  
172 100  
171 31.0 25.2 37.8  
170 22.7 16.2 24.2



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.29 min Scan# 1150  
Delta R.T. -0.01 min  
Lab File: BE097769.D  
Acq: 5 Oct 2018 23:47

Tgt Ion:188 Resp: 22924  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.0 6.6 9.8#

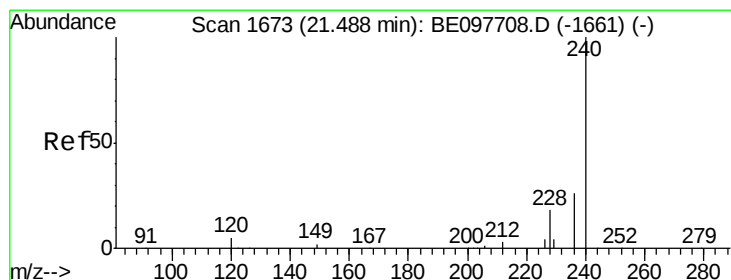
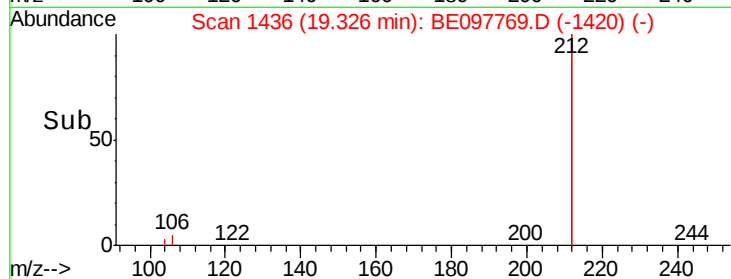
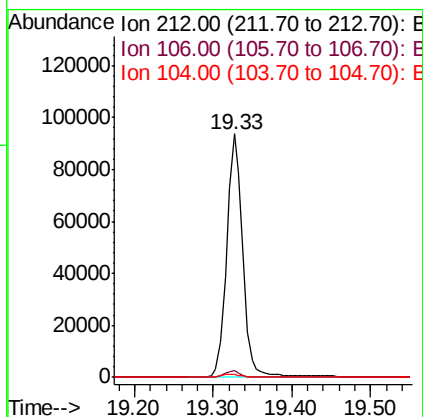
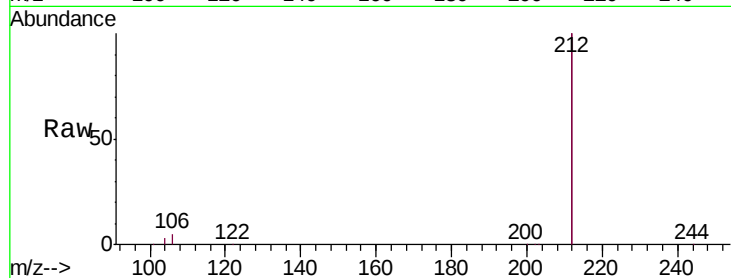




#25  
 Fluoranthene-d10  
 Concen: 0.452 ng  
 RT: 19.33 min Scan# 1436  
 Delta R.T. -0.01 min  
 Lab File: BE097769.D  
 Acq: 5 Oct 2018 23:47

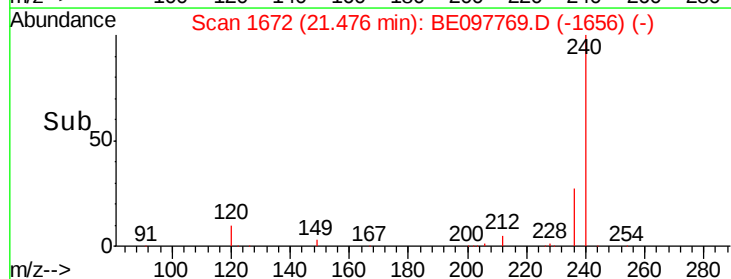
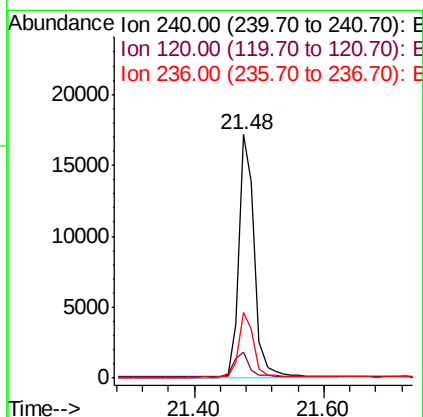
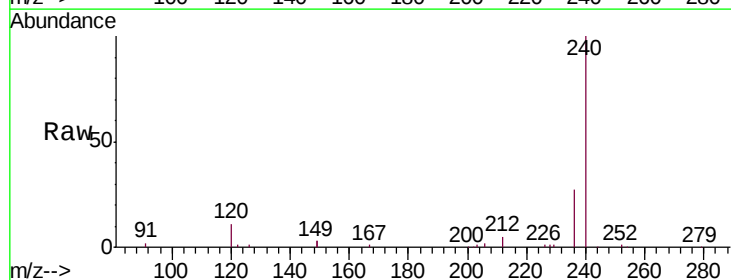
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 RE-103D1-20181003

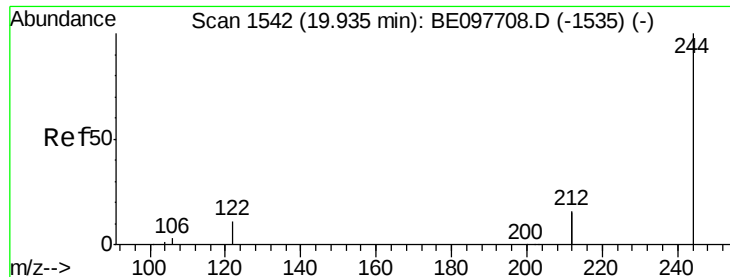
Tgt Ion: 212 Resp: 131110  
 Ion Ratio Lower Upper  
 212 100  
 106 2.6 2.2 3.2  
 104 1.5 1.2 1.8



#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.48 min Scan# 1672  
 Delta R.T. -0.01 min  
 Lab File: BE097769.D  
 Acq: 5 Oct 2018 23:47

Tgt Ion: 240 Resp: 28524  
 Ion Ratio Lower Upper  
 240 100  
 120 10.9 4.7 7.1#  
 236 27.2 20.8 31.2





#29

Terphenyl-d14

Concen: 0.430 ng

RT: 19.93 min Scan# 1541

Delta R.T. -0.01 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D1-20181003

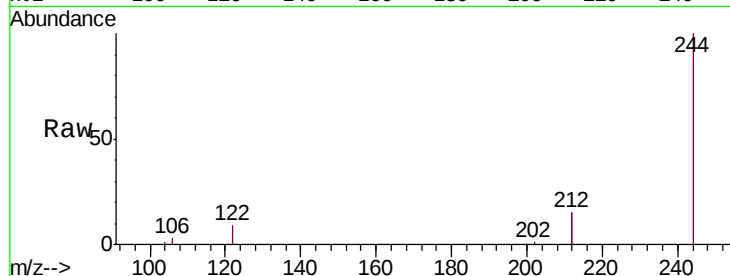
Tgt Ion:244 Resp: 25037

Ion Ratio Lower Upper

244 100

212 30.2 25.8 38.8

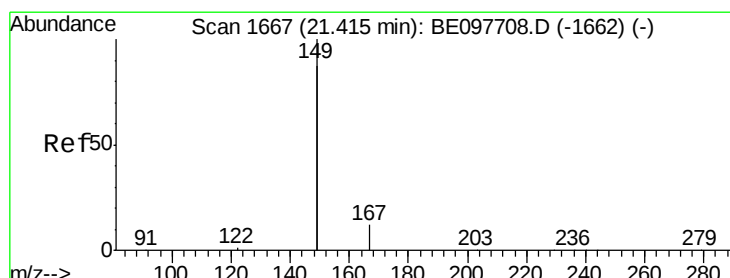
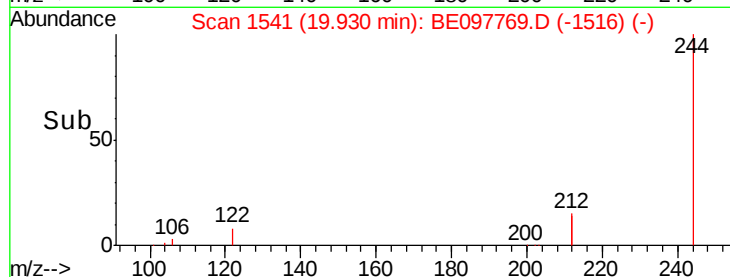
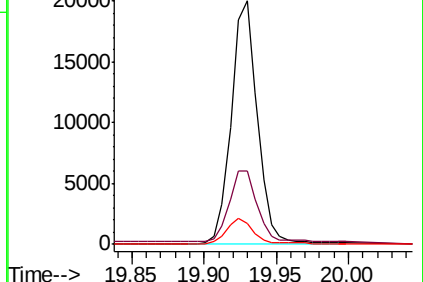
122 8.6 8.7 13.1#



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: 0.043 ng

RT: 21.40 min Scan# 1666

Delta R.T. -0.01 min

Lab File: BE097769.D

Acq: 5 Oct 2018 23:47

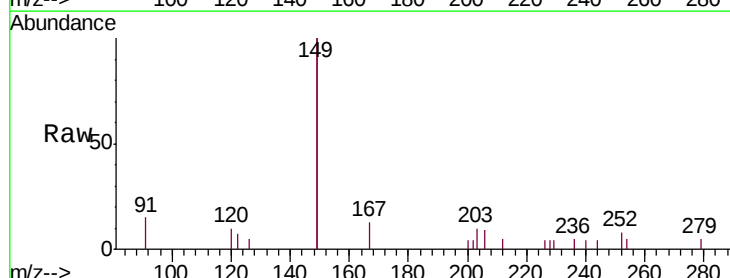
Tgt Ion:149 Resp: 2410

Ion Ratio Lower Upper

149 100

167 8.5 5.5 8.3#

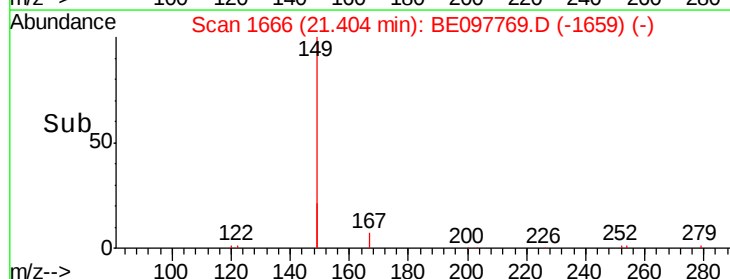
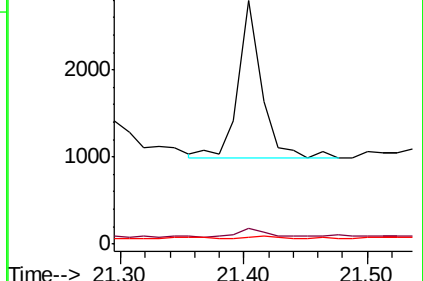
279 1.4 0.9 1.3#

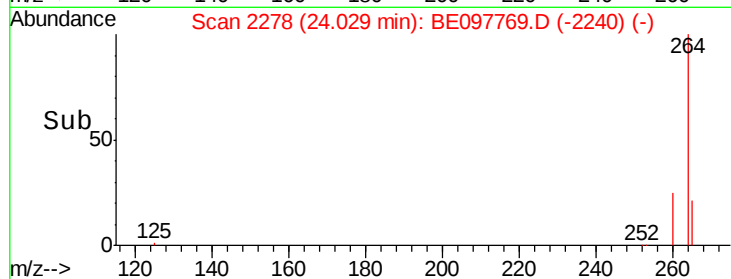
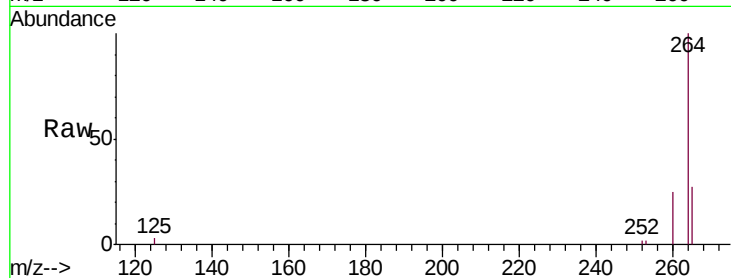
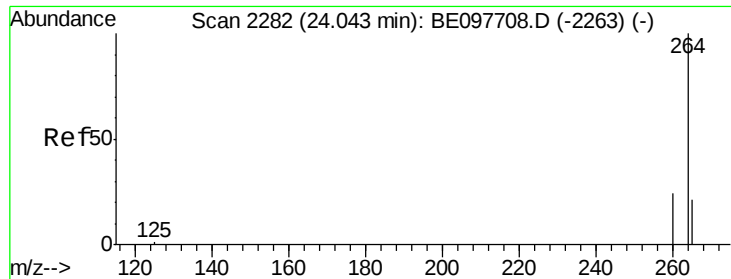


Abundance Ion 149.00 (148.70 to 149.70): E

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: BE097769.D

Acq: 5 Oct 2018 23:47

Instrument :

MSVOA\_V

ClientSampleId :

RE-103D1-20181003

Tgt Ion:264 Resp: 26290

Ion Ratio Lower Upper

264 100

260 25.5 19.1 28.7

265 26.7 21.9 32.9

