

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101615\  
 Data File : BM002936.D  
 Acq On : 16 Oct 2015 16:05  
 Operator : UM/IZ  
 Sample : G4037-07  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 RAV-GT-105

Quant Time: Oct 16 23:24:36 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM101515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 16 22:59:32 2015  
 Response via : Initial Calibration

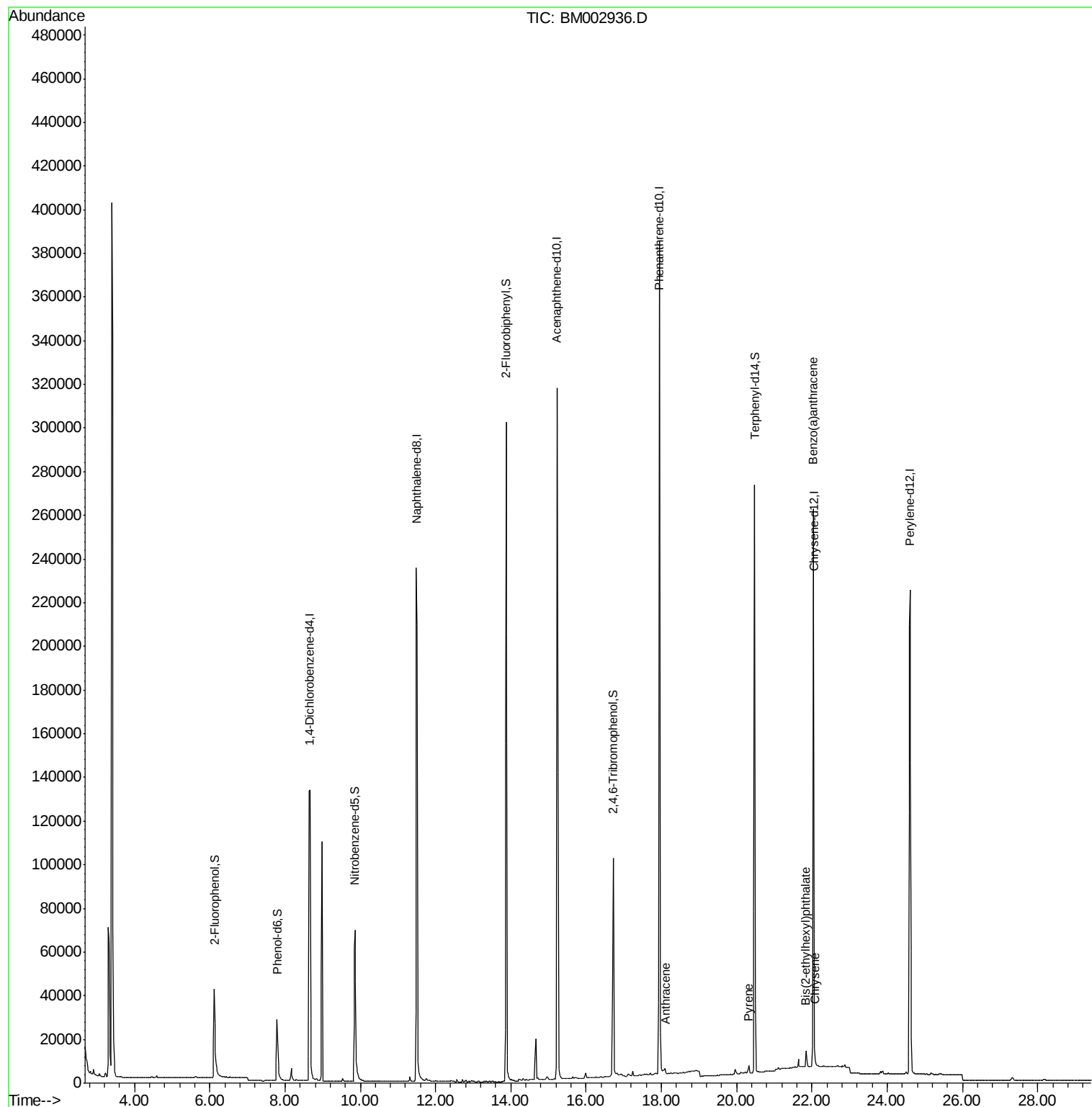
| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.66  | 152  | 102952   | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8              | 11.49 | 136  | 440124   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10           | 15.23 | 164  | 230657   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.95 | 188  | 557516   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12               | 22.05 | 240  | 395420   | 5.00 | ng    | 0.02     |
| 35) Perylene-d12               | 24.61 | 264  | 352328   | 5.00 | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 6.12  | 112  | 59351    | 3.08 | ng    | -0.03    |
| 5) Phenol-d6                   | 7.79  | 99   | 48889    | 1.99 | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 9.86  | 82   | 88974    | 4.22 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 16.71 | 330  | 79027    | 8.74 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.87 | 172  | 306077   | 4.14 | ng    | 0.00     |
| 29) Terphenyl-d14              | 20.48 | 244  | 297225   | 5.02 | ng    | 0.00     |
| Target Compounds               |       |      |          |      |       |          |
| 24) Anthracene                 | 18.10 | 178  | 4214     | 0.03 | ng    | # 91     |
| 28) Pyrene                     | 20.32 | 202  | 3338     | 0.03 | ng    | # 91     |
| 30) Benzo(a)anthracene         | 22.03 | 228  | 3483m    | 0.03 | ng    |          |
| 32) Chrysene                   | 22.07 | 228  | 2637m    | 0.02 | ng    |          |
| 33) Bis(2-ethylhexyl)phthalate | 21.85 | 149  | 9906     | 0.41 | ng    | # 91     |

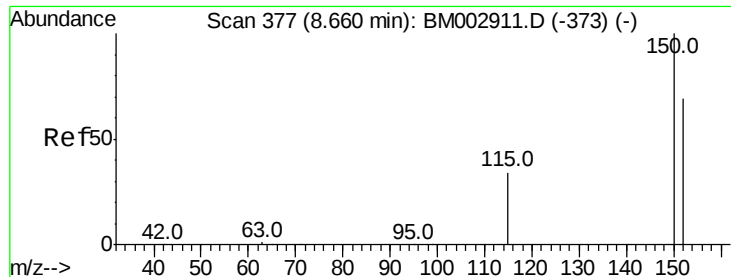
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM101515.M  
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QLast Update : Fri Oct 16 22:59:32 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.66 min Scan# 377

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Instrument :

BNA\_M

ClientSampleId :

RAV-GT-105

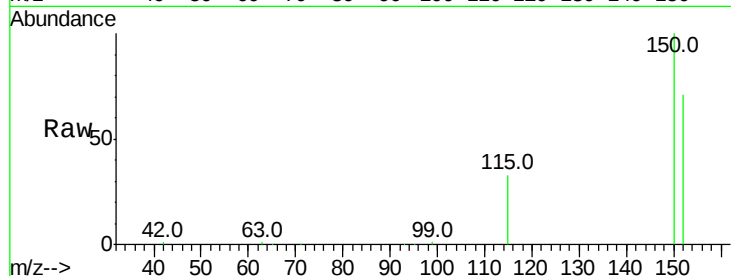
Tot Ion:152 Resp: 102952

Ion Ratio Lower Upper

152 100

150 141.2 113.0 169.6

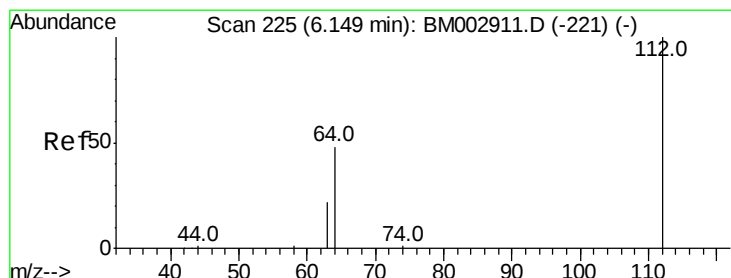
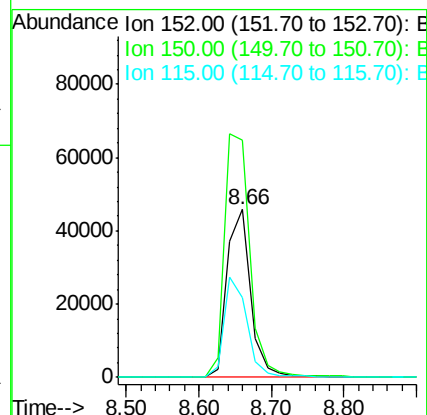
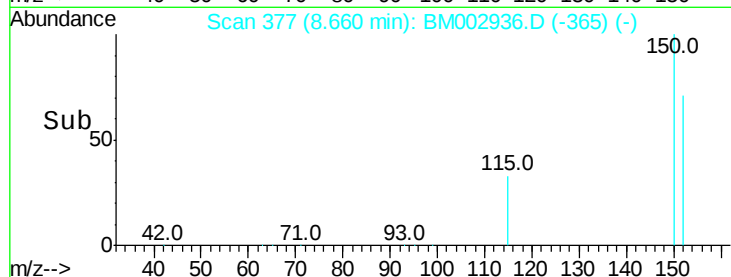
115 47.3 37.9 56.9



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



#4

2-Fluorophenol

Concen: 3.08 ng

RT: 6.12 min Scan# 223

Delta R.T. -0.03 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

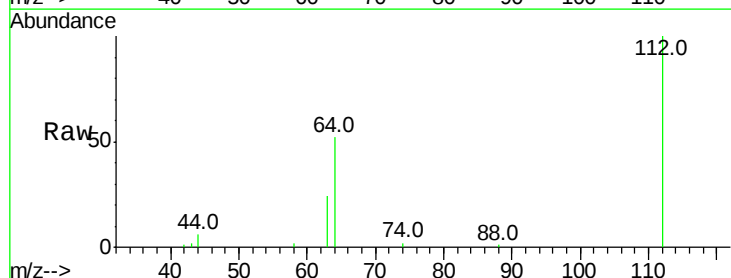
Tgt Ion:112 Resp: 59351

Ion Ratio Lower Upper

112 100

64 51.4 42.0 63.0

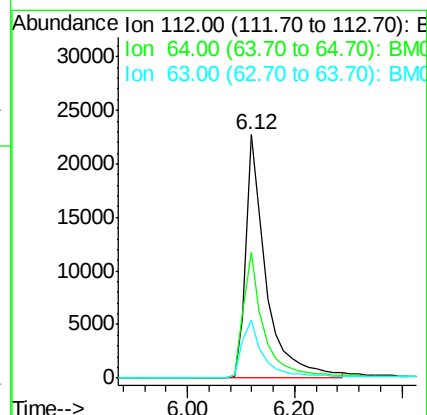
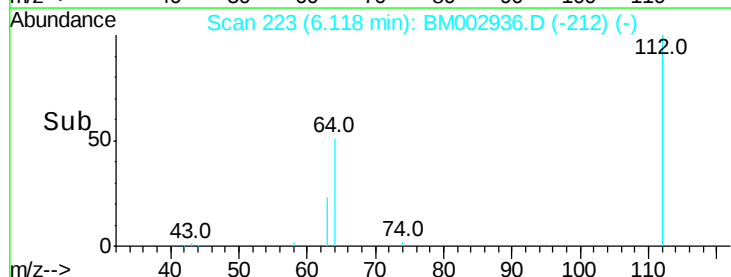
63 24.4 20.0 30.0

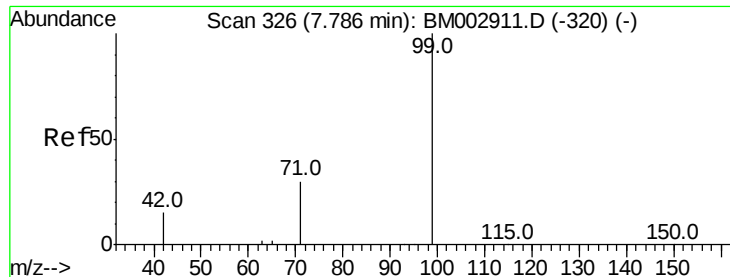


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 1.99 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Instrument :

BNA\_M

ClientSampleId :

RAV-GT-105

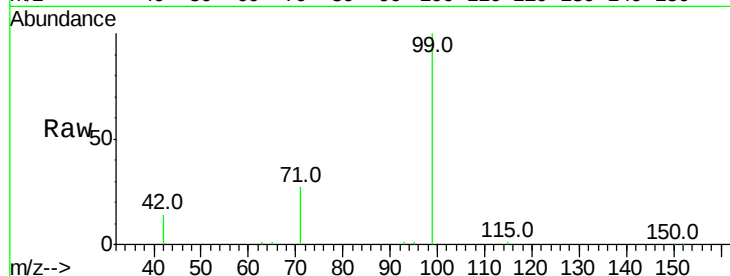
Tot Ion: 99 Resp: 48889

Ion Ratio Lower Upper

99 100

42 15.4 12.4 18.6

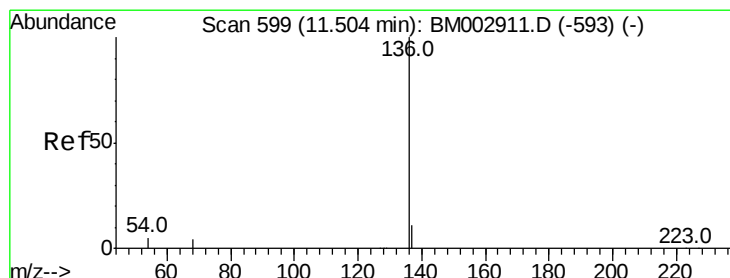
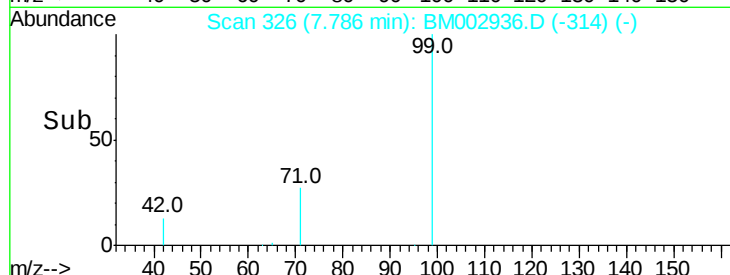
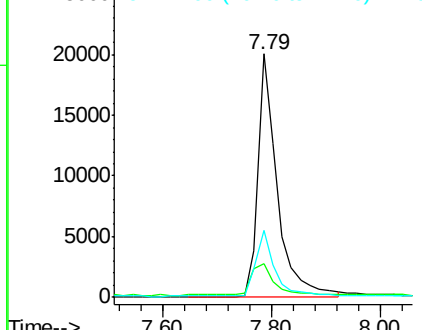
71 26.8 21.4 32.0



Abundance Ion 99.00 (98.70 to 99.70): BM002911.D (-320) (-)

Ion 42.00 (41.70 to 42.70): BM002911.D (-320) (-)

Ion 71.00 (70.70 to 71.70): BM002911.D (-320) (-)



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.49 min Scan# 599

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Tgt Ion: 136 Resp: 440124

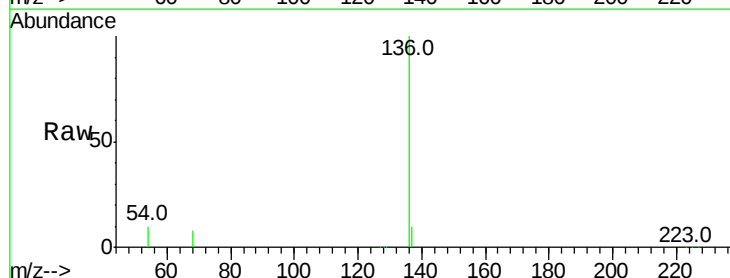
Ion Ratio Lower Upper

136 100

137 10.0 9.1 13.7

54 9.6 3.5 5.3#

68 7.9 3.3 4.9#

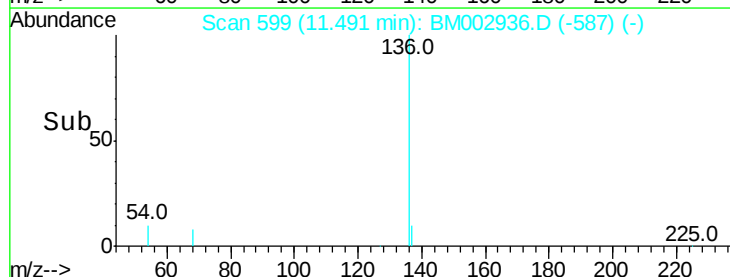
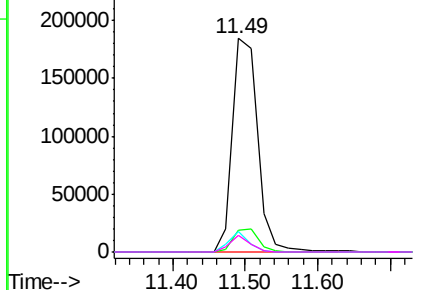


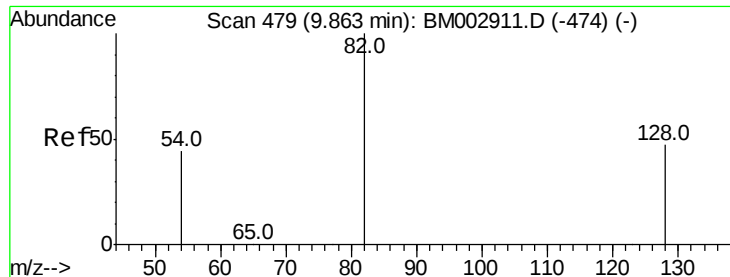
Abundance Ion 136.00 (135.70 to 136.70): BM002911.D (-593) (-)

Ion 137.00 (136.70 to 137.70): BM002911.D (-593) (-)

Ion 54.00 (53.70 to 54.70): BM002911.D (-593) (-)

Ion 68.00 (67.70 to 68.70): BM002911.D (-593) (-)





#8

Nitrobenzene-d5

Concen: 4.22 ng

RT: 9.86 min Scan# 479

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Instrument :

BNA\_M

ClientSampleId :

RAV-GT-105

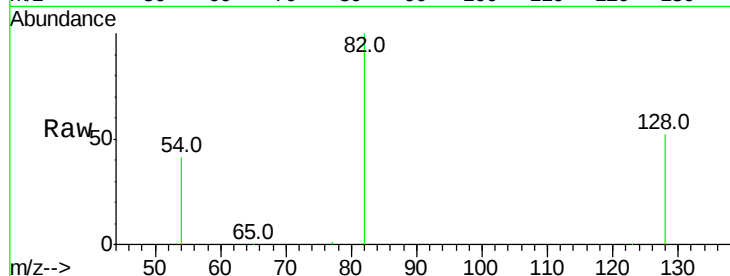
Tot Ion: 82 Resp: 88974

Ion Ratio Lower Upper

82 100

128 51.9 34.1 51.1#

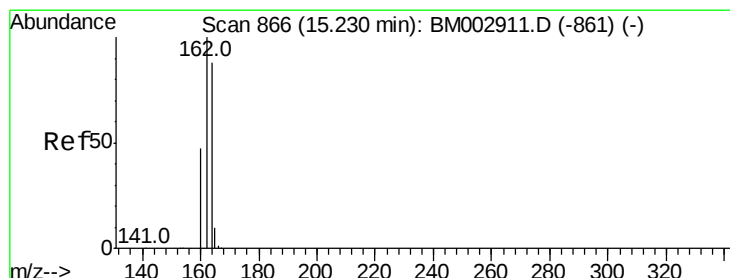
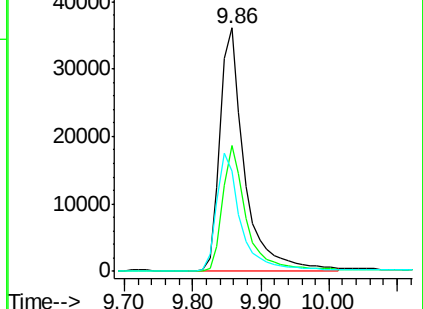
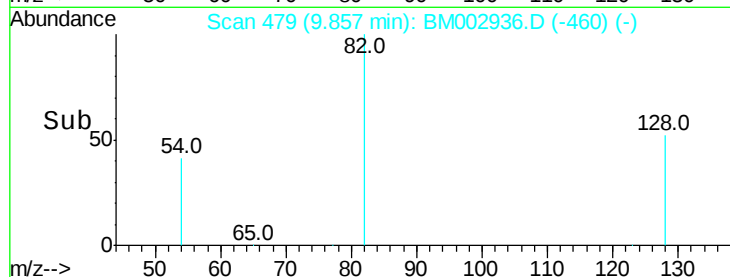
54 41.2 42.6 63.8#



Abundance Ion 82.00 (81.70 to 82.70): BM002911.D (-474) (-)

Ion 128.00 (127.70 to 128.70): BM002911.D (-474) (-)

Ion 54.00 (53.70 to 54.70): BM002911.D (-474) (-)



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.23 min Scan# 867

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

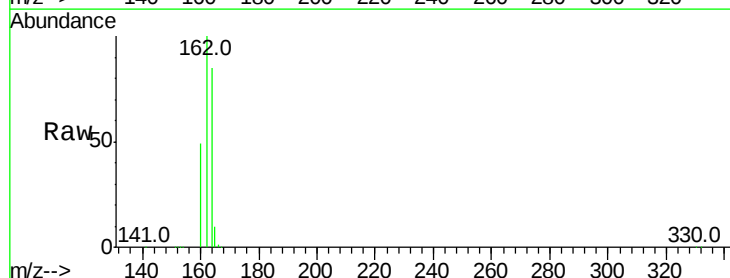
Tgt Ion: 164 Resp: 230657

Ion Ratio Lower Upper

164 100

162 117.1 79.6 119.4

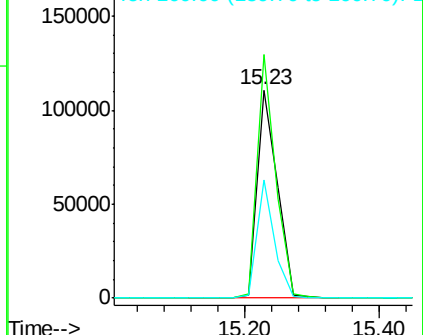
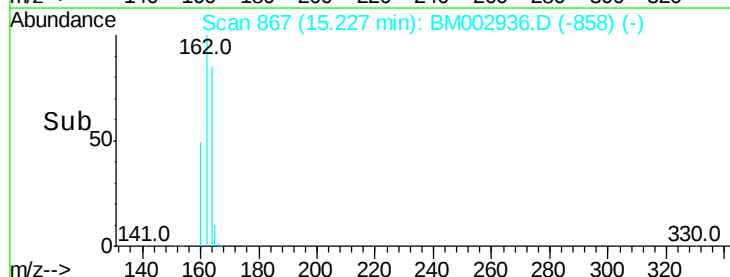
160 56.9 33.1 49.7#

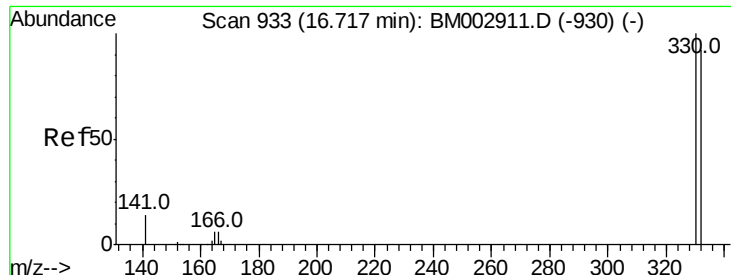


Abundance Ion 164.00 (163.70 to 164.70): BM002911.D (-861) (-)

Ion 162.00 (161.70 to 162.70): BM002911.D (-861) (-)

Ion 160.00 (159.70 to 160.70): BM002911.D (-861) (-)

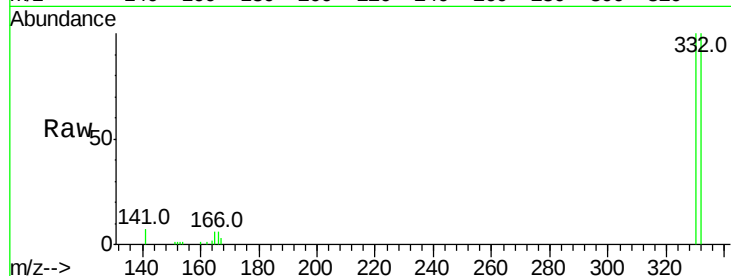




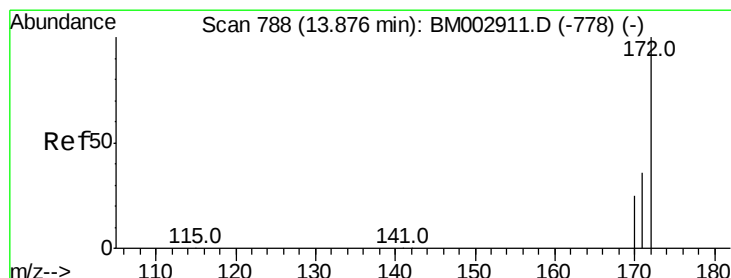
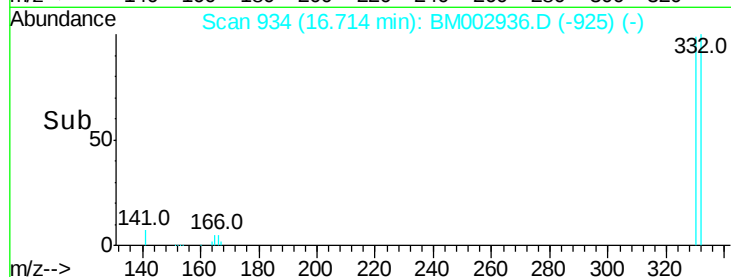
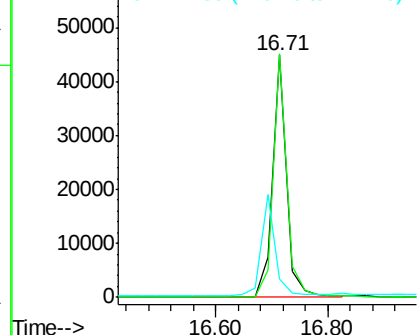
#14  
 2,4,6-Tribromophenol  
 Concen: 8.74 ng  
 RT: 16.71 min Scan# 934  
 Delta R.T. -0.00 min  
 Lab File: BM002936.D  
 Acq: 16 Oct 2015 16:05

Instrument :  
 BNA\_M  
 ClientSampleId :  
 RAV-GT-105

Tot Ion:330 Resp: 79027  
 Ion Ratio Lower Upper  
 330 100  
 332 97.8 76.6 115.0  
 141 0.0 0.0 0.0

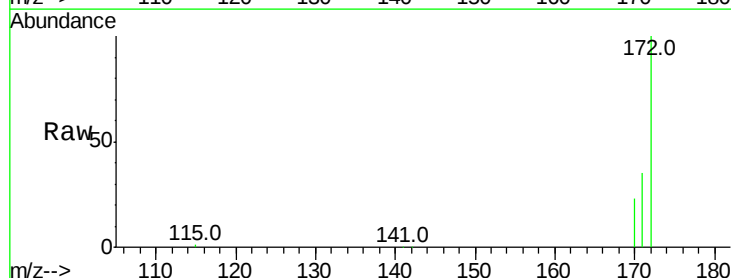


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

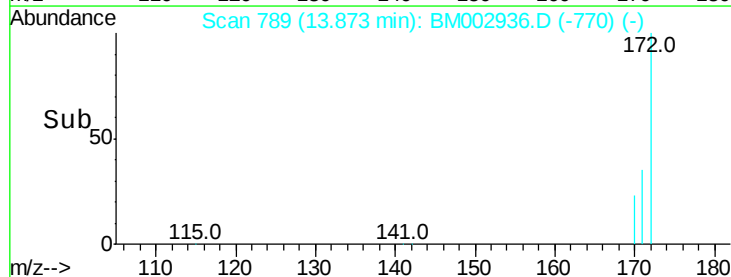
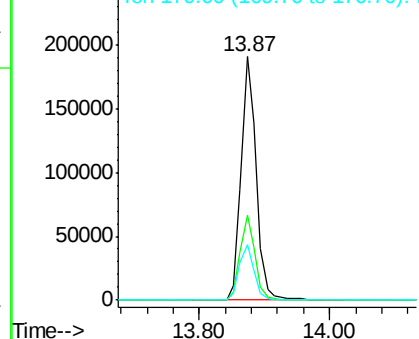


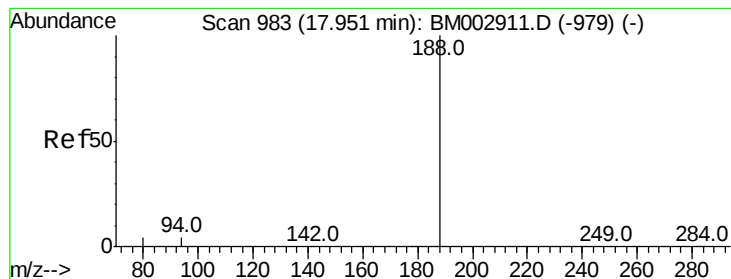
#15  
 2-Fluorobiphenyl  
 Concen: 4.14 ng  
 RT: 13.87 min Scan# 789  
 Delta R.T. -0.00 min  
 Lab File: BM002936.D  
 Acq: 16 Oct 2015 16:05

Tgt Ion:172 Resp: 306077  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 26.1 39.1  
 170 22.7 15.7 23.5



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: 5.00 ng

RT: 17.95 min Scan# 984

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Instrument :

BNA\_M

ClientSampleId :

RAV-GT-105

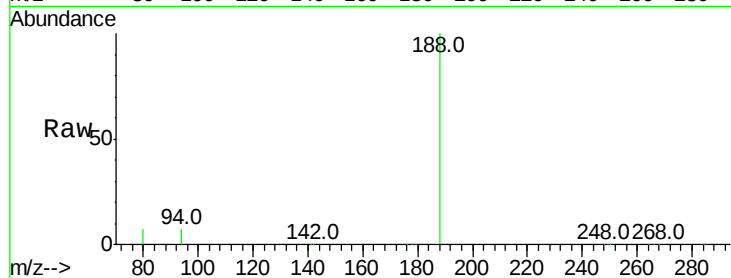
Tot Ion:188 Resp: 557516

Ion Ratio Lower Upper

188 100

94 7.3 15.2 22.8#

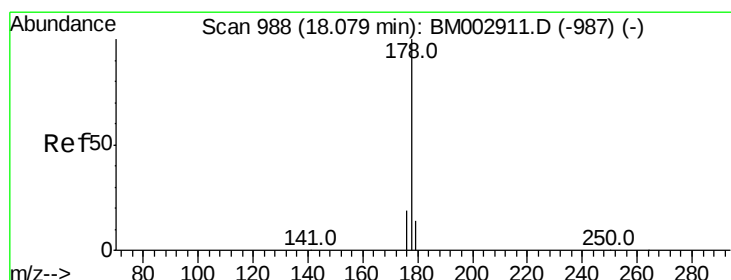
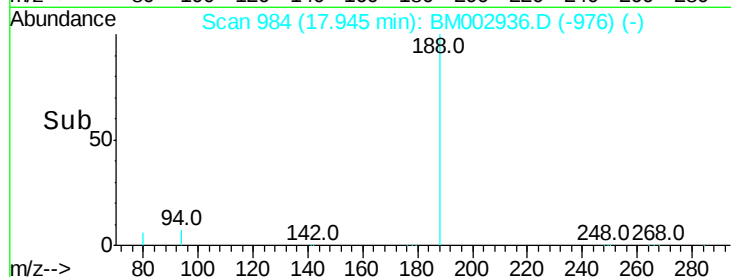
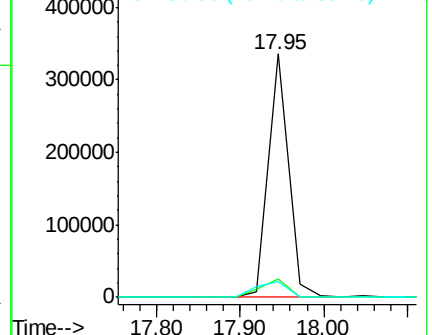
80 6.5 15.9 23.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#24

Anthracene

Concen: 0.03 ng

RT: 18.10 min Scan# 990

Delta R.T. 0.03 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

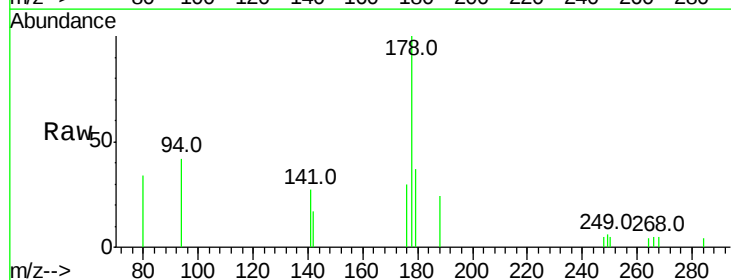
Tgt Ion:178 Resp: 4214

Ion Ratio Lower Upper

178 100

176 19.9 13.9 20.9

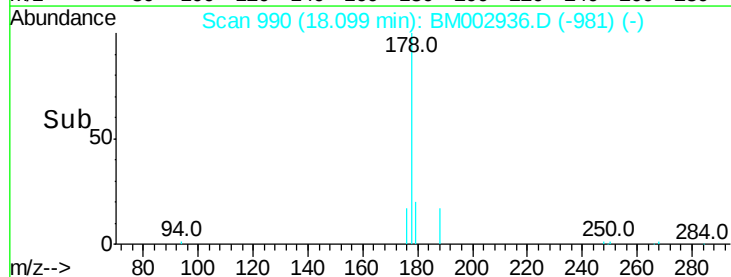
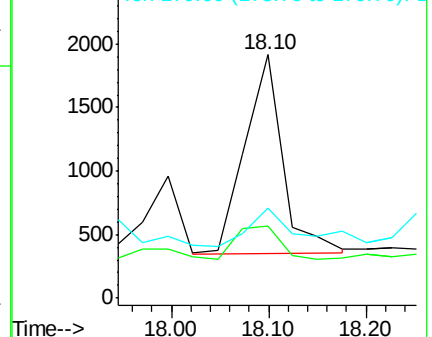
179 20.9 12.6 18.8#

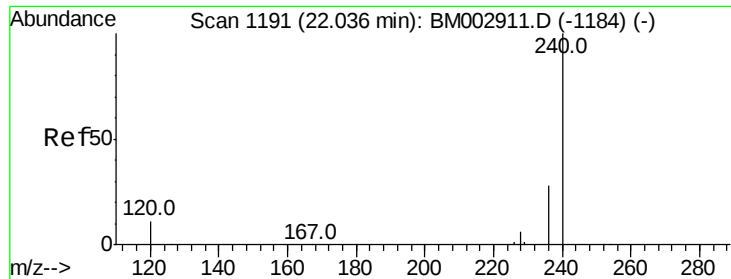


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

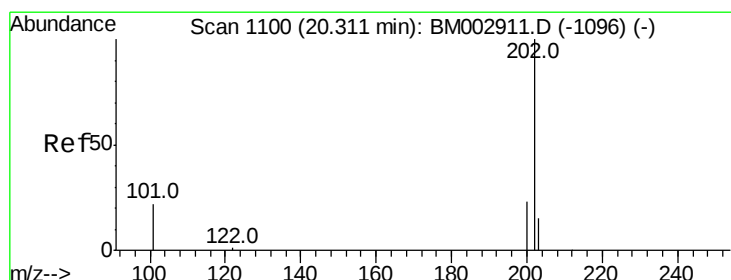
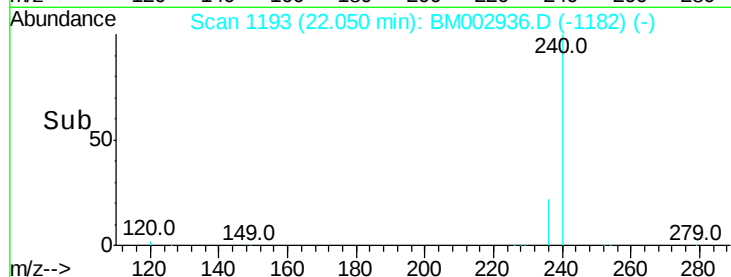
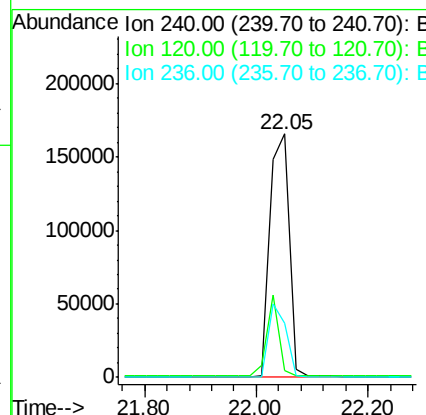
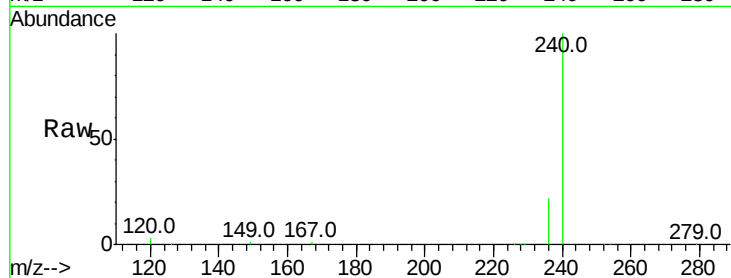




#26  
Chrysene-d12  
Concen: 5.00 ng  
RT: 22.05 min Scan# 1193  
Delta R.T. 0.02 min  
Lab File: BM002936.D  
Acq: 16 Oct 2015 16:05

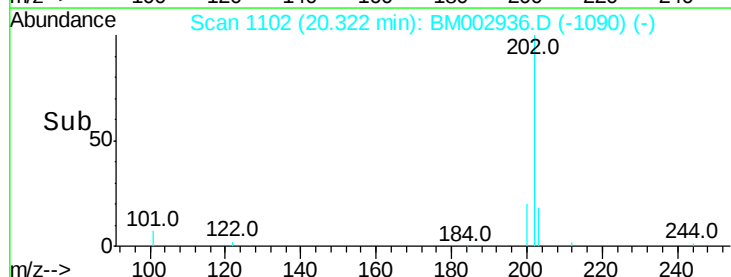
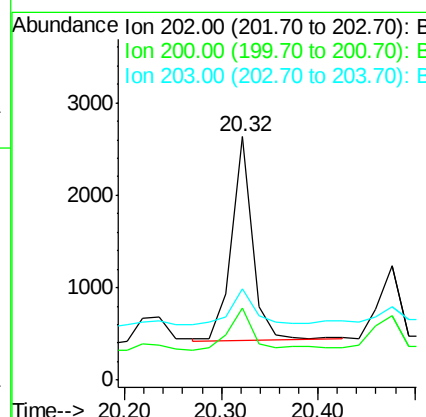
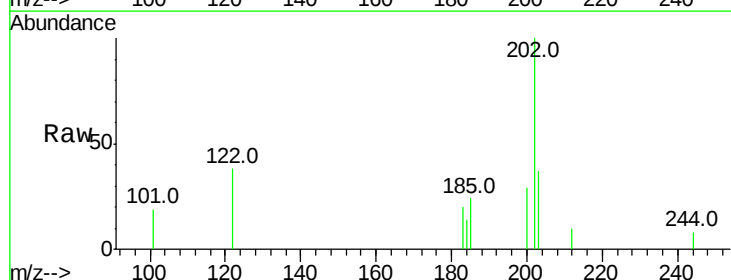
Instrument :  
BNA\_M  
ClientSampleId :  
RAV-GT-105

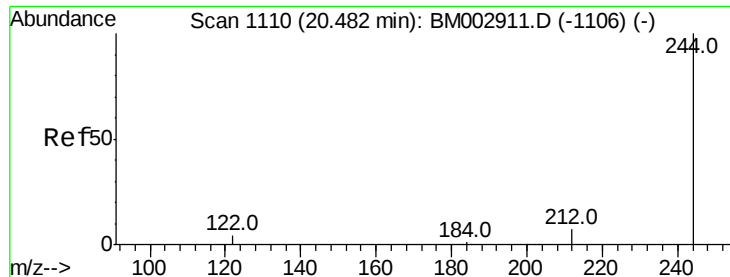
Tot Ion:240 Resp: 395420  
Ion Ratio Lower Upper  
240 100  
120 2.6 3.3 4.9#  
236 22.4 19.5 29.3



#28  
Pyrene  
Concen: 0.03 ng  
RT: 20.32 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: BM002936.D  
Acq: 16 Oct 2015 16:05

Tgt Ion:202 Resp: 3338  
Ion Ratio Lower Upper  
202 100  
200 24.7 16.2 24.4#  
203 21.3 13.8 20.8#





#29

Terphenyl-d14

Concen: 5.02 ng

RT: 20.48 min Scan# 1111

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Instrument :

BNA\_M

ClientSampleId :

RAV-GT-105

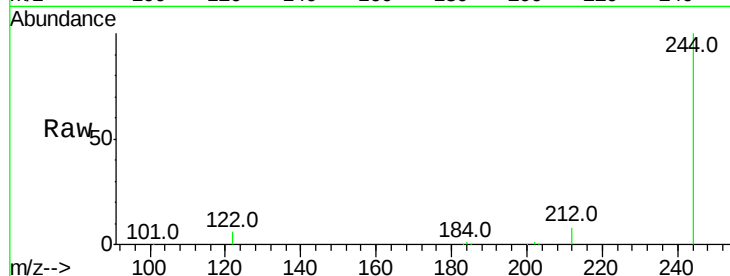
Tot Ion:244 Resp: 297225

Ion Ratio Lower Upper

244 100

212 8.4 5.6 8.4

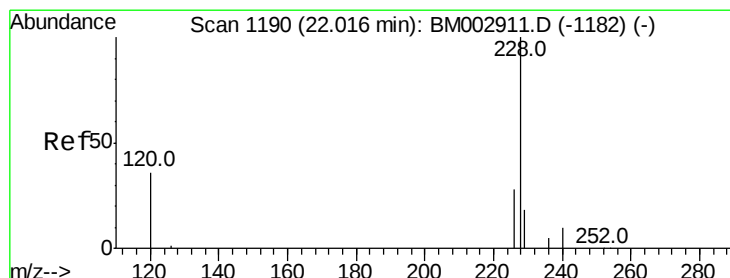
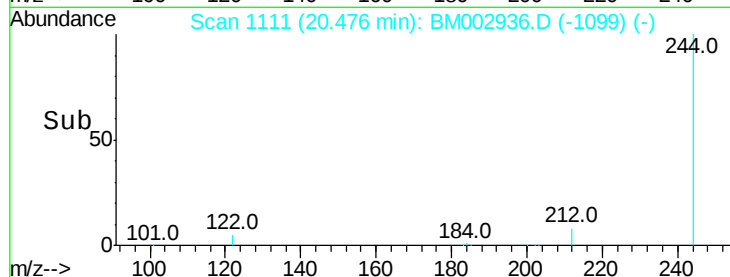
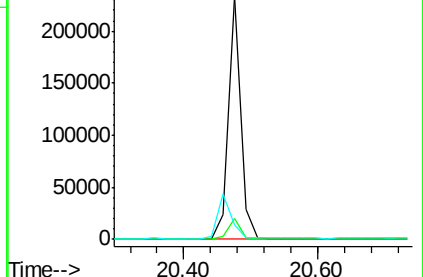
122 5.7 2.2 3.2#



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



#30

Benzo(a)anthracene

Concen: 0.03 ng m

RT: 22.03 min Scan# 1192

Delta R.T. 0.02 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

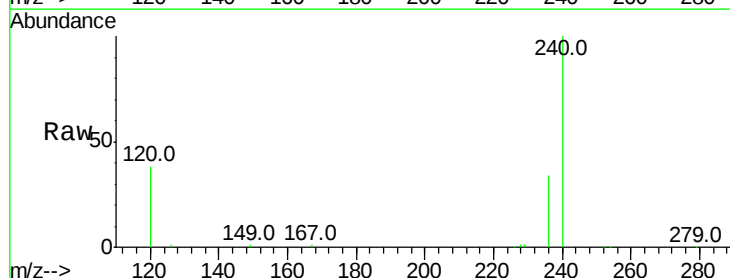
Tgt Ion:228 Resp: 3483

Ion Ratio Lower Upper

228 100

226 32.8 19.0 28.6#

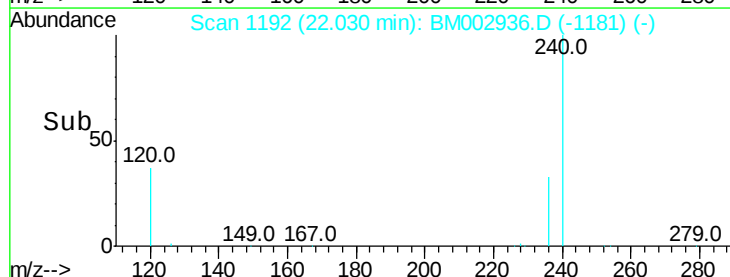
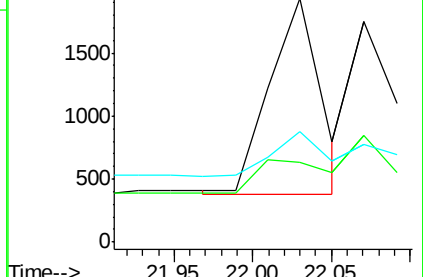
229 45.2 16.8 25.2#

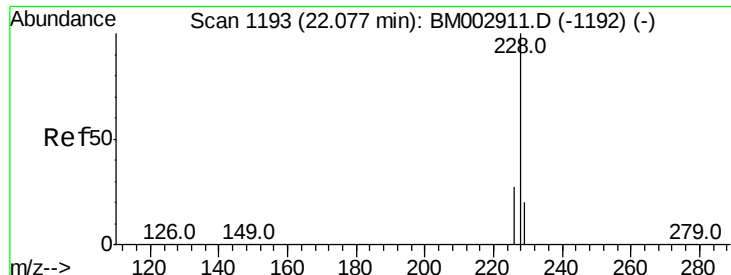


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Chrysene

Concen: 0.02 ng/mL

RT: 22.07 min Scan# 1194

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Instrument :

BNA\_M

ClientSampleId :

RAV-GT-105

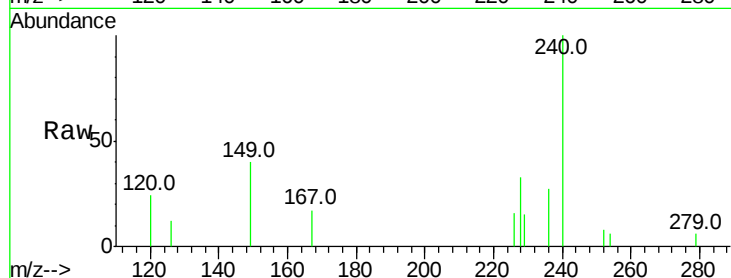
Tot Ion: 228 Resp: 2637

Ion Ratio Lower Upper

228 100

226 48.5 20.6 30.8#

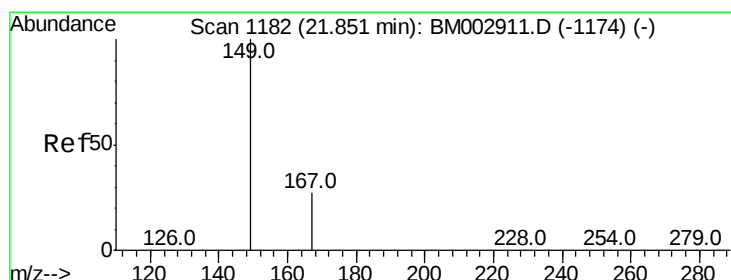
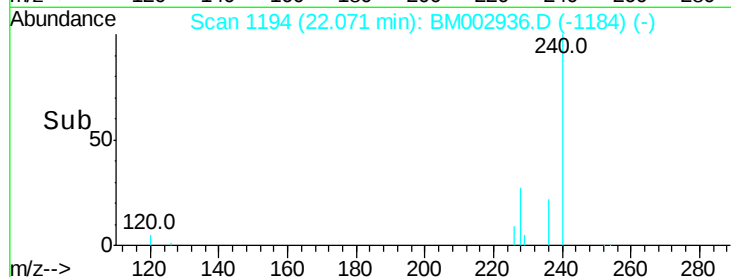
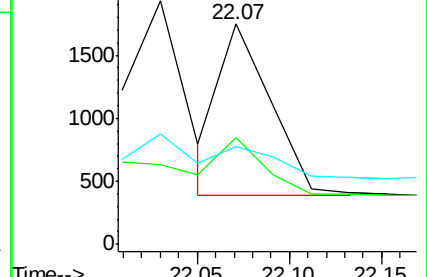
229 44.1 17.4 26.2#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.41 ng/mL

RT: 21.85 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

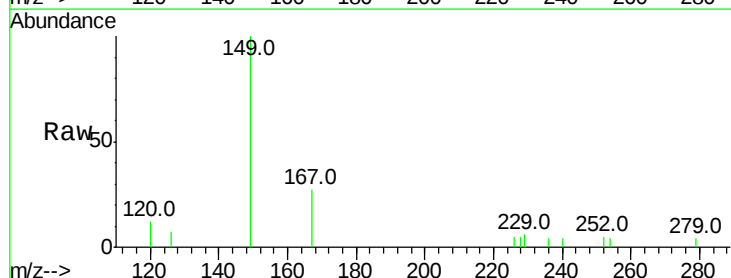
Tgt Ion: 149 Resp: 9906

Ion Ratio Lower Upper

149 100

167 26.0 17.2 25.8#

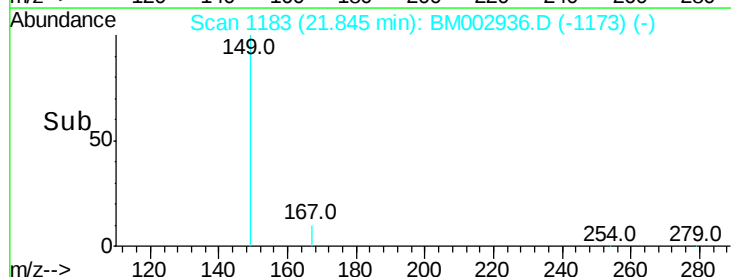
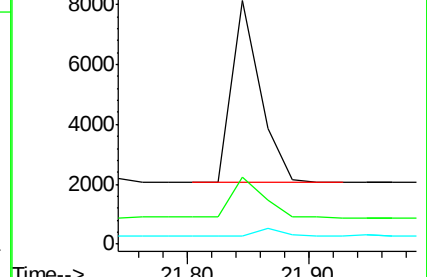
279 0.0 2.2 3.4#

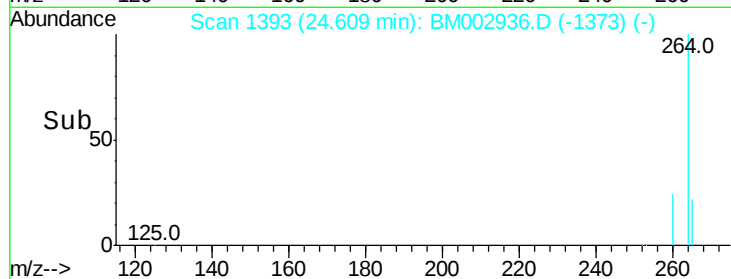
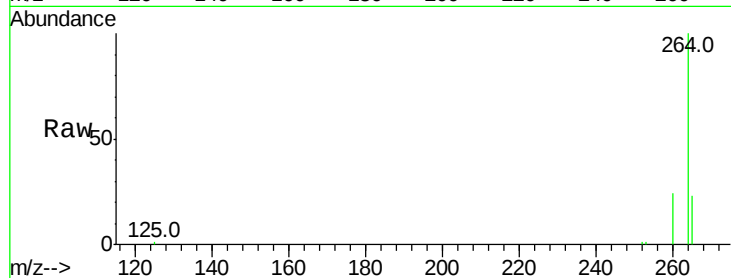
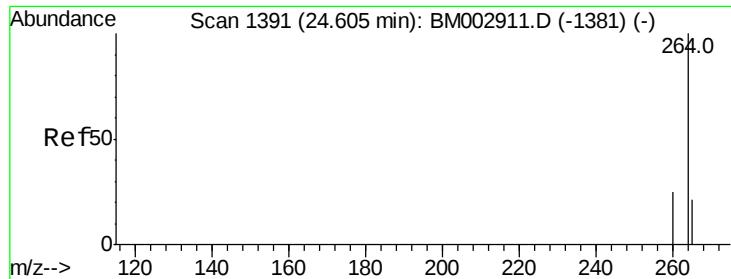


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#35

Pervlene-d12

Concen: 5.00 ng

RT: 24.61 min Scan# 1393

Delta R.T. 0.01 min

Lab File: BM002936.D

Acq: 16 Oct 2015 16:05

Instrument :

BNA\_M

ClientSampleId :

RAV-GT-105

Tot Ion: 264 Resp: 352328

Ion Ratio Lower Upper

264 100

260 24.3 20.1 30.1

265 22.7 17.6 26.4

