

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120215\  
 Data File : BM003364.D  
 Acq On : 02 Dec 2015 19:58  
 Operator : UM/IZ  
 Sample : PB85646BL  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB85646BL

Quant Time: Dec 03 00:19:33 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 16:19:00 2015  
 Response via : Initial Calibration

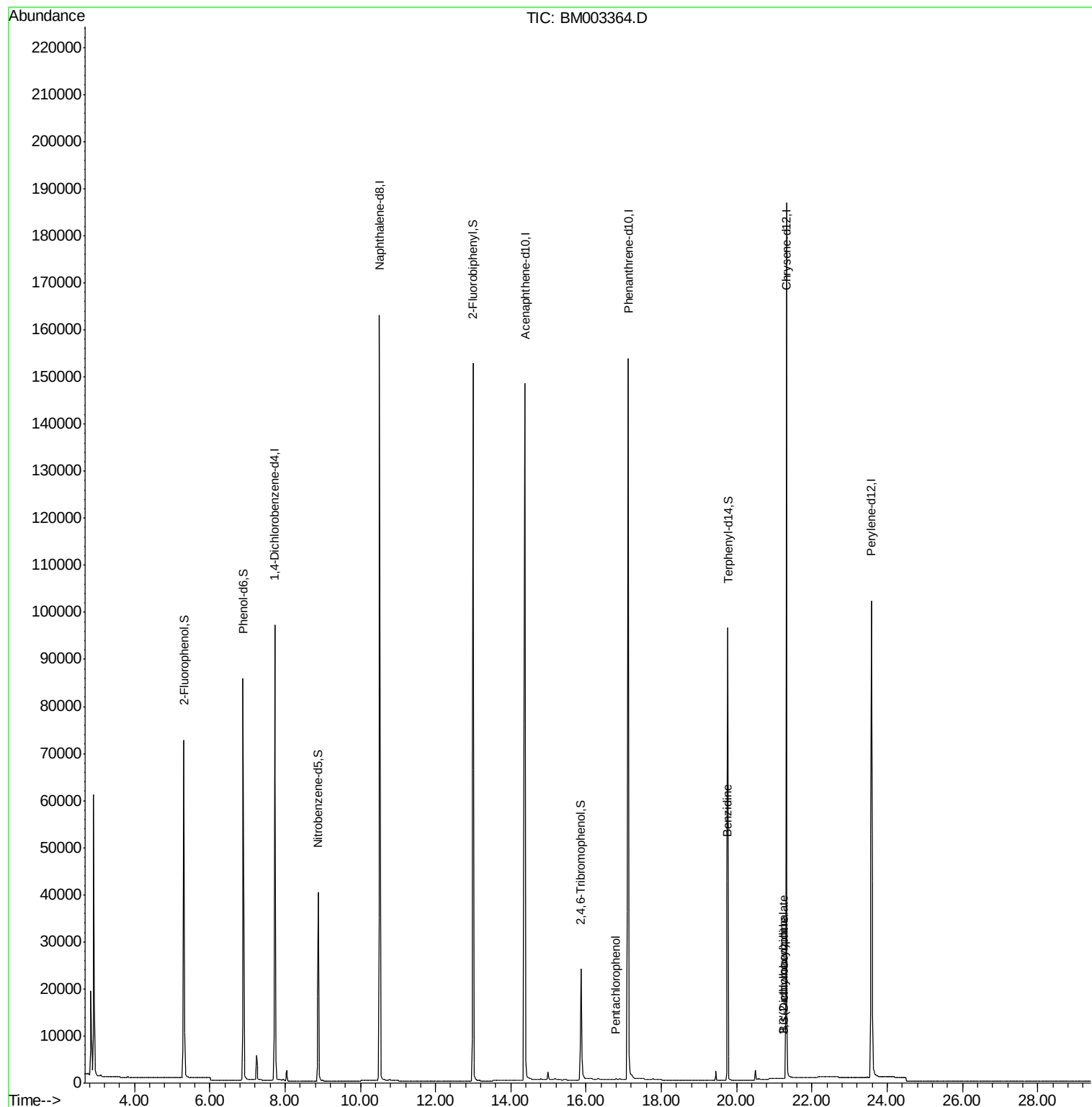
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.72  | 152  | 56158    | 5.00      | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.51 | 136  | 231897   | 5.00      | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.38 | 164  | 115004   | 5.00      | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.12 | 188  | 253235   | 5.00      | ng    | 0.00     |
| 26) Chrysene-d12               | 21.32 | 240  | 190945   | 5.00      | ng    | -0.01    |
| 35) Perylene-d12               | 23.58 | 264  | 139554   | 5.00      | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.31  | 112  | 81198    | 7.25      | ng    | 0.00     |
| 5) Phenol-d6                   | 6.88  | 99   | 102313   | 7.42      | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.88  | 82   | 38661    | 3.58      | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.87 | 330  | 17771    | 6.00      | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 12.99 | 172  | 149078   | 4.31      | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.76 | 244  | 113259   | 3.66      | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 21) Hexachlorobenzene          | 16.43 | 284  | 5        | Below Cal | #     | 1        |
| 22) Pentachlorophenol          | 16.79 | 266  | 90       | 0.35 ng   | #     | 72       |
| 27) Benzidine                  | 19.75 | 184  | 2513     | 0.47 ng   | #     | 90       |
| 31) 3,3'-Dichlorobenzidine     | 21.26 | 252  | 101      | 0.09 ng   | #     | 77       |
| 33) Bis(2-ethylhexyl)phthalate | 21.24 | 149  | 383      | 0.26 ng   | #     | 71       |

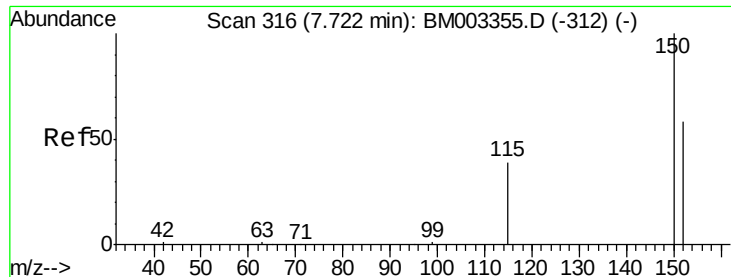
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120215\  
Data File : BM003364.D  
Acq On : 02 Dec 2015 19:58  
Operator : UM/IZ  
Sample : PB85646BL  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PB85646BL

Quant Time: Dec 03 00:19:33 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM120215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 02 16:19:00 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.72 min Scan# 316

Delta R.T. -0.00 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Instrument :

BNA\_M

ClientSampleId :

PB85646BL

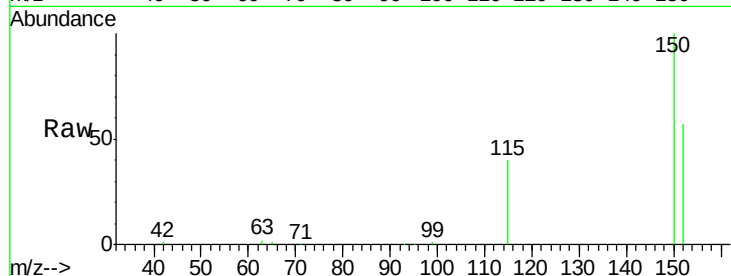
Tgt Ion:152 Resp: 56158

Ion Ratio Lower Upper

152 100

150 176.9 143.6 215.4

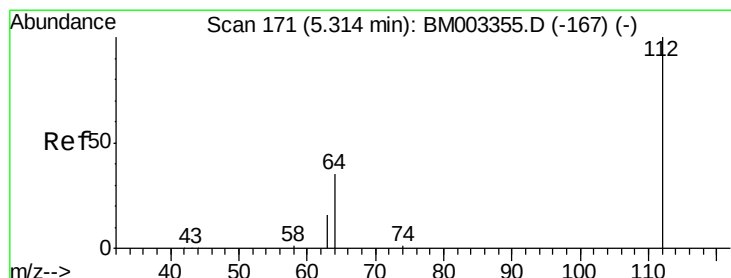
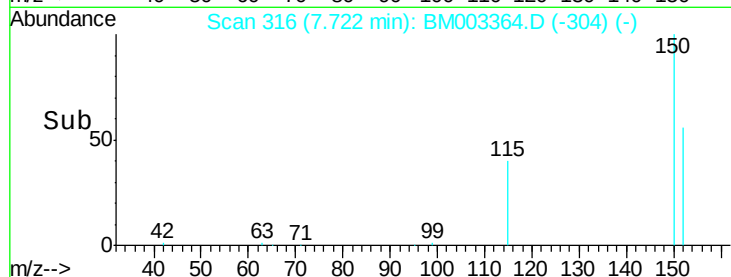
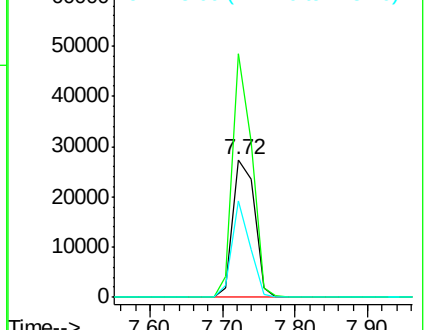
115 70.3 58.5 87.7



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: 7.25 ng

RT: 5.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

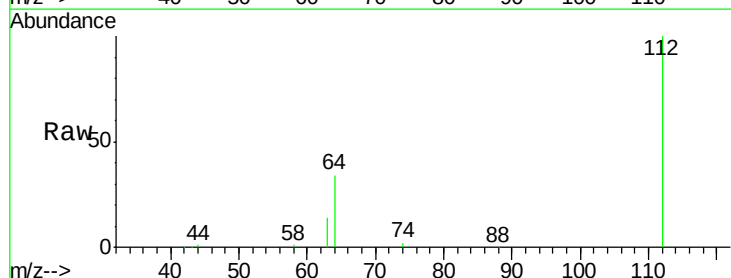
Tgt Ion:112 Resp: 81198

Ion Ratio Lower Upper

112 100

64 51.7 41.2 61.8

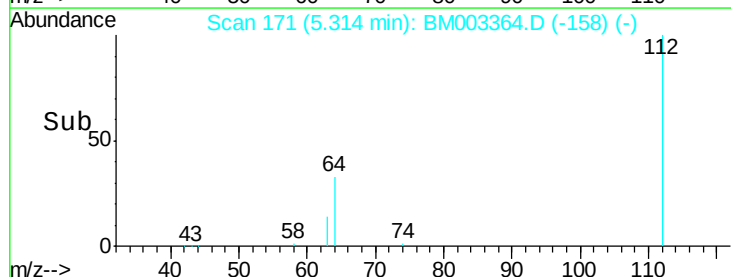
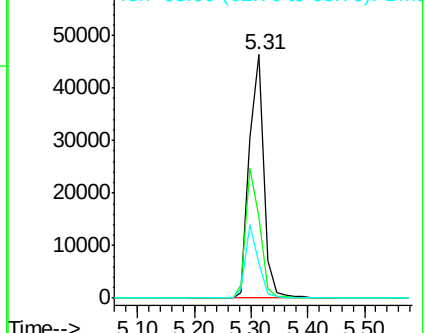
63 27.0 21.2 31.8

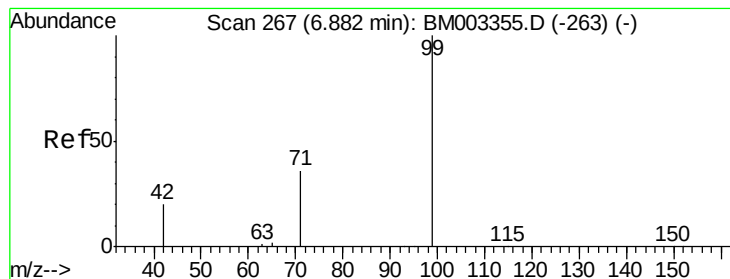


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 7.42 ng

RT: 6.88 min Scan# 267

Delta R.T. 0.00 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Instrument :

BNA\_M

ClientSampleId :

PB85646BL

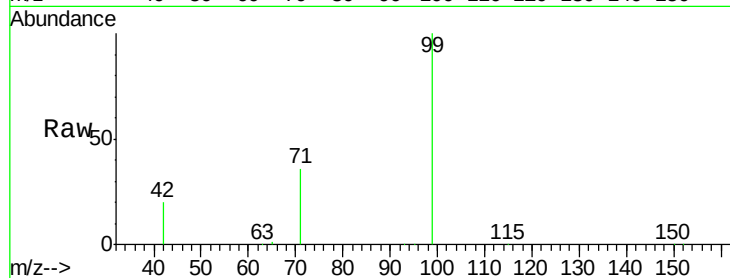
Tgt Ion: 99 Resp: 102313

Ion Ratio Lower Upper

99 100

42 17.8 14.6 22.0

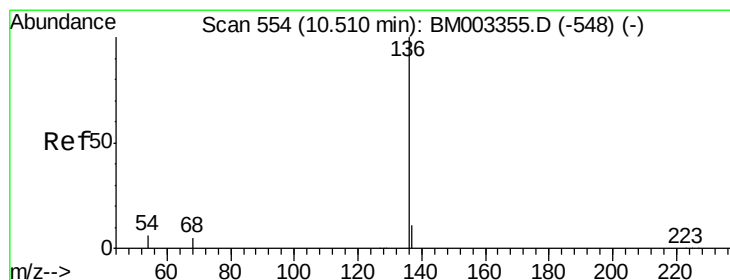
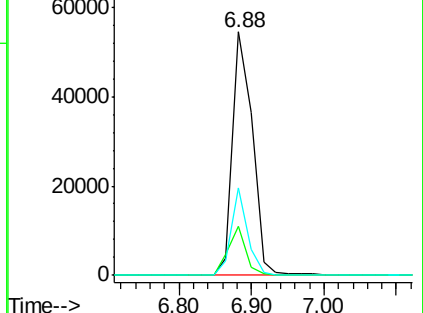
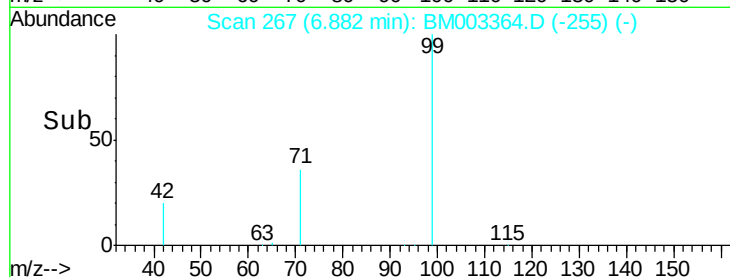
71 29.5 23.3 34.9



Abundance Ion 99.00 (98.70 to 99.70): BM003364.D (-255) (-)

Ion 42.00 (41.70 to 42.70): BM003364.D (-255) (-)

Ion 71.00 (70.70 to 71.70): BM003364.D (-255) (-)



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.51 min Scan# 554

Delta R.T. 0.00 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Tgt Ion: 136 Resp: 231897

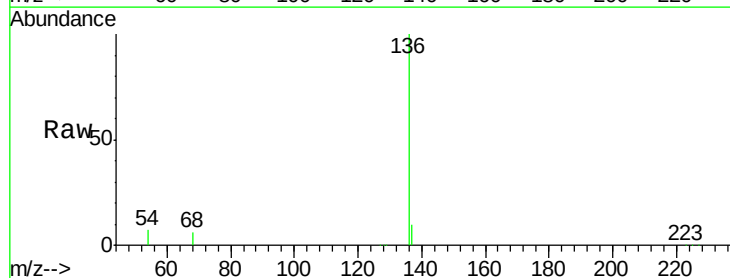
Ion Ratio Lower Upper

136 100

137 10.5 8.0 12.0

54 6.8 7.4 11.0#

68 5.5 5.8 8.6#

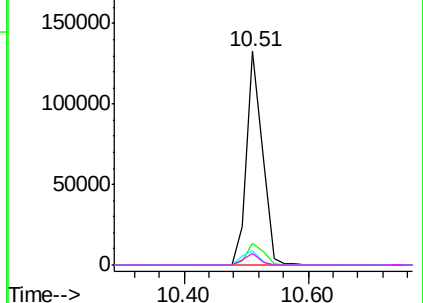
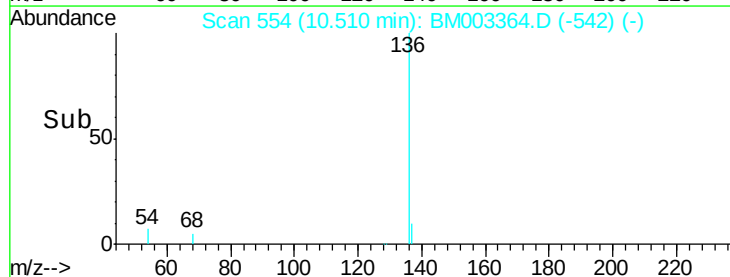


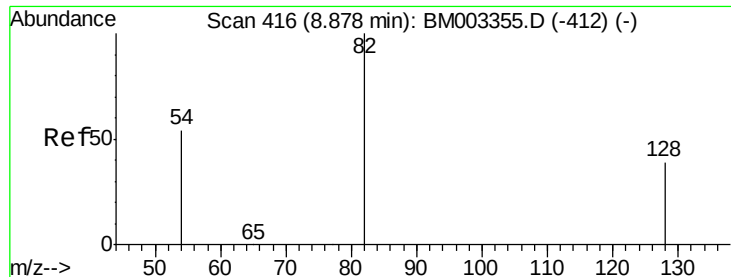
Abundance Ion 136.00 (135.70 to 136.70): BM003364.D (-542) (-)

Ion 137.00 (136.70 to 137.70): BM003364.D (-542) (-)

Ion 54.00 (53.70 to 54.70): BM003364.D (-542) (-)

Ion 68.00 (67.70 to 68.70): BM003364.D (-542) (-)





#8

Nitrobenzene-d5

Concen: 3.58 ng

RT: 8.88 min Scan# 416

Delta R.T. -0.00 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Instrument :

BNA\_M

ClientSampleId :

PB85646BL

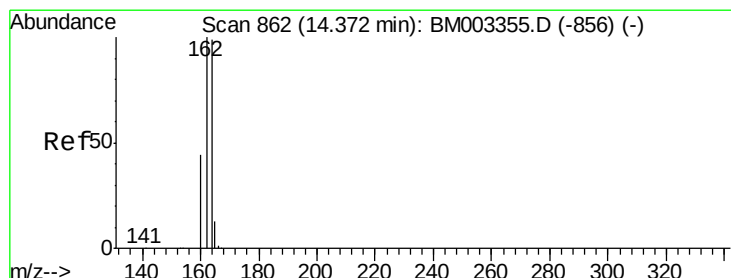
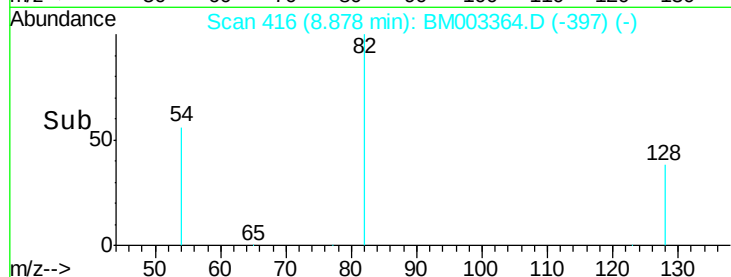
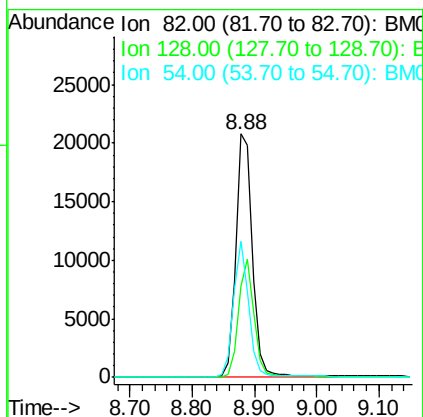
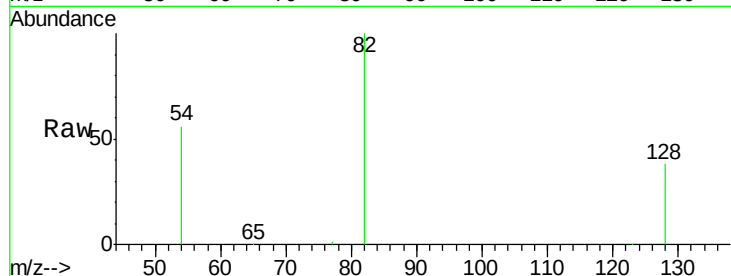
Tgt Ion: 82 Resp: 38661

Ion Ratio Lower Upper

82 100

128 37.8 35.2 52.8

54 55.6 36.4 54.6#



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.38 min Scan# 862

Delta R.T. 0.01 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

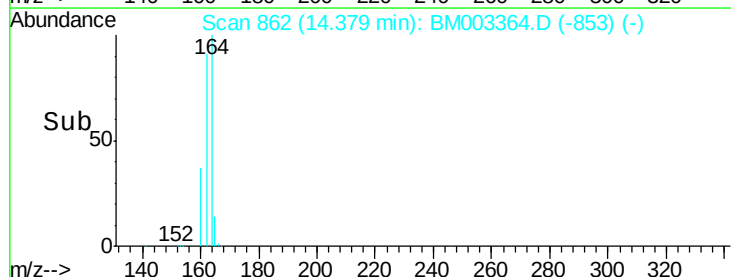
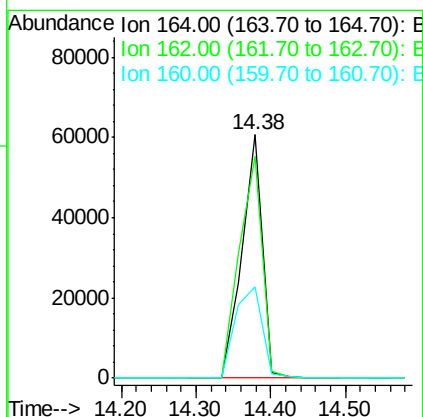
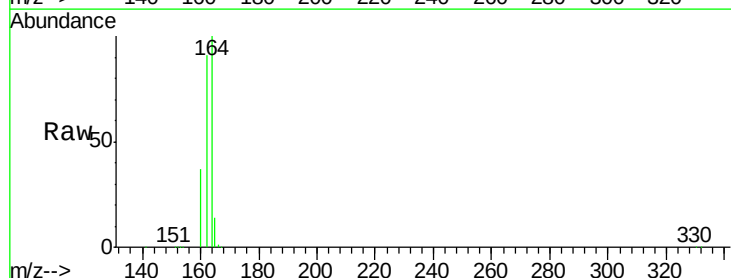
Tgt Ion: 164 Resp: 115004

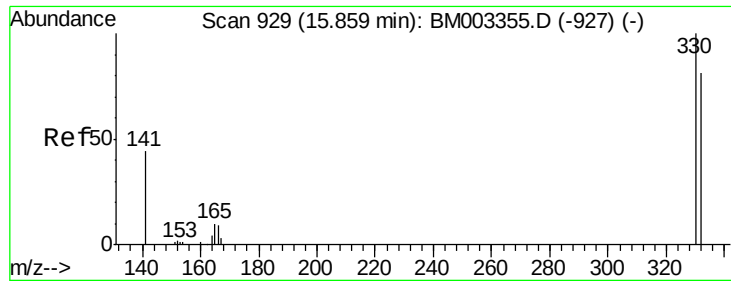
Ion Ratio Lower Upper

164 100

162 91.3 78.3 117.5

160 37.4 33.8 50.6

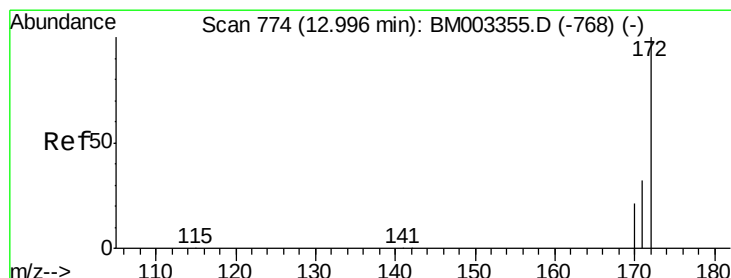
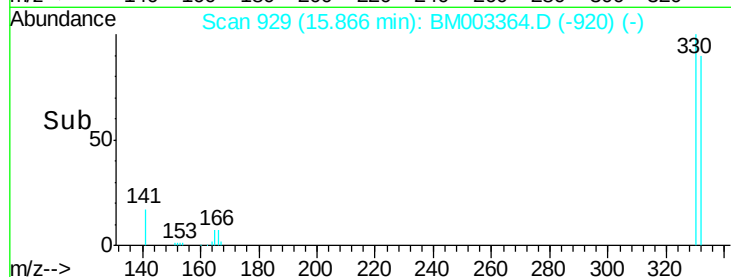
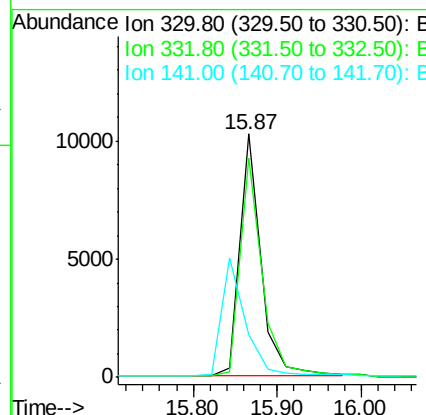
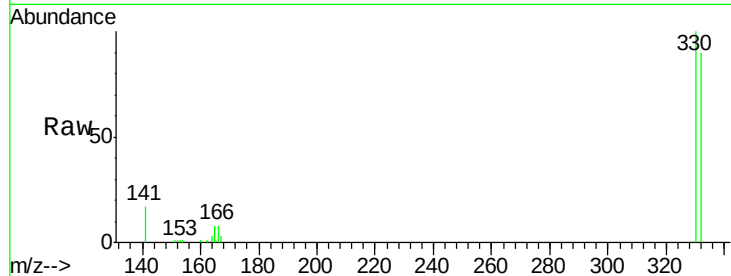




#14  
 2,4,6-Tribromophenol  
 Concen: 6.00 ng  
 RT: 15.87 min Scan# 929  
 Delta R.T. 0.01 min  
 Lab File: BM003364.D  
 Acq: 02 Dec 2015 19:58

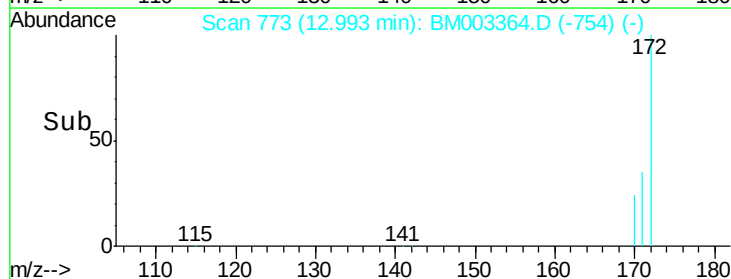
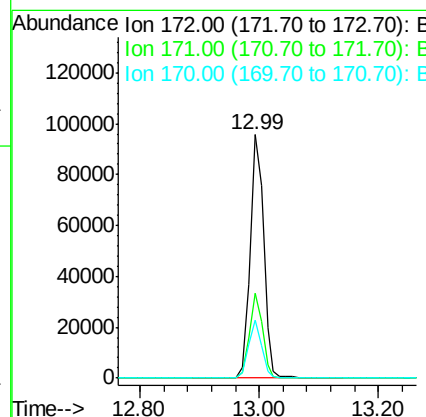
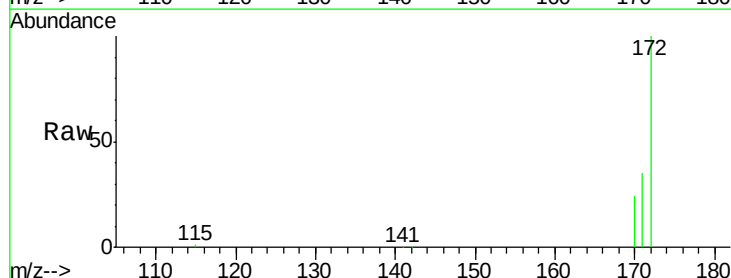
Instrument :  
 BNA\_M  
 ClientSampled :  
 PB85646BL

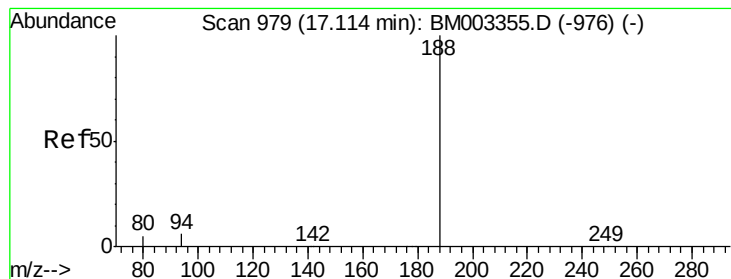
Tgt Ion:330 Resp: 17771  
 Ion Ratio Lower Upper  
 330 100  
 332 94.2 76.0 114.0  
 141 0.0 0.0 0.0



#15  
 2-Fluorobiphenyl  
 Concen: 4.31 ng  
 RT: 12.99 min Scan# 773  
 Delta R.T. -0.00 min  
 Lab File: BM003364.D  
 Acq: 02 Dec 2015 19:58

Tgt Ion:172 Resp: 149078  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 28.0 42.0  
 170 23.9 18.9 28.3





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.12 min Scan# 979

Delta R.T. 0.01 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Instrument :

BNA\_M

ClientSampleId :

PB85646BL

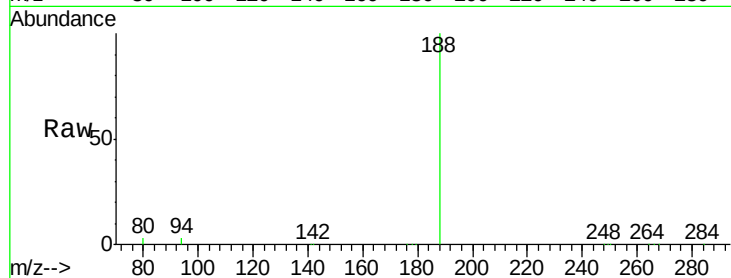
Tgt Ion:188 Resp: 253235

Ion Ratio Lower Upper

188 100

94 3.4 1.8 2.6#

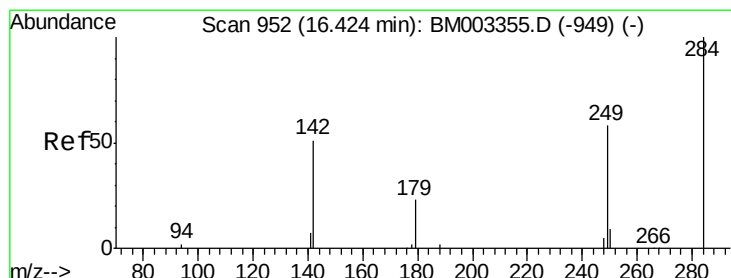
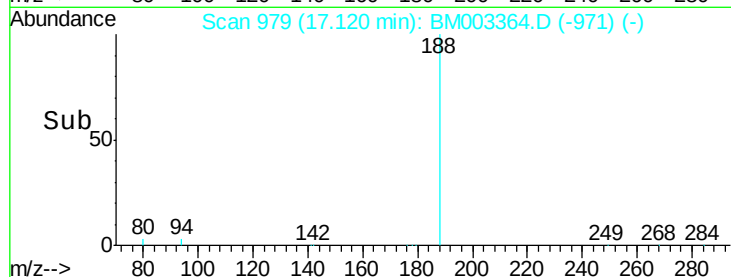
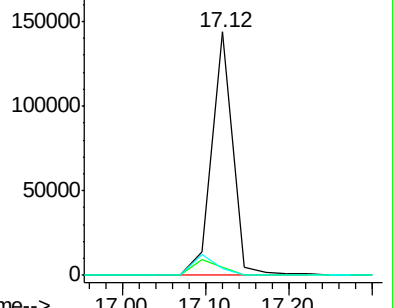
80 2.8 1.4 2.0#



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



#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.43 min Scan# 952

Delta R.T. 0.01 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

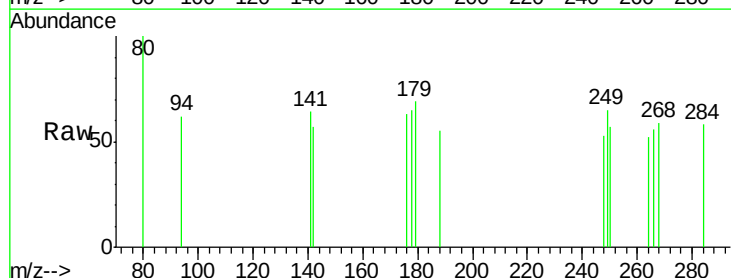
Tgt Ion:284 Resp: 5

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

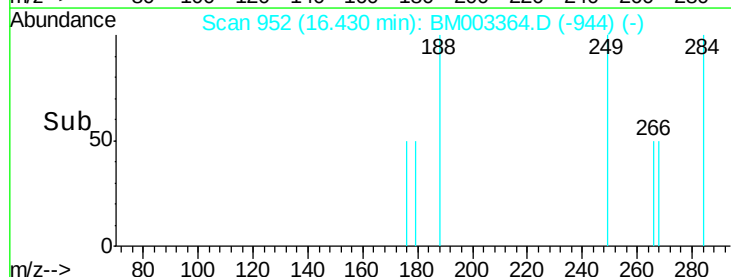
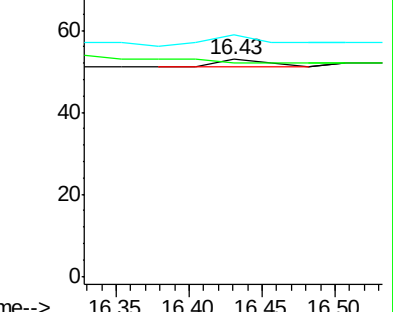
249 180.0 19.4 29.2#

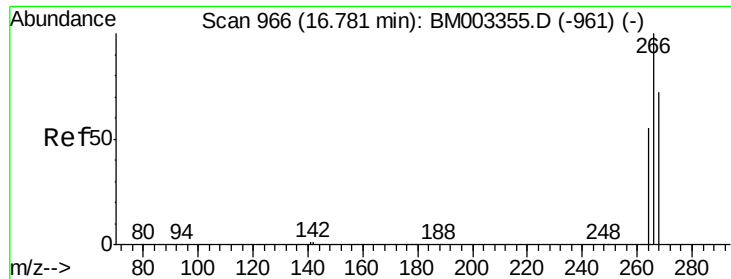


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Pentachlorophenol

Concen: 0.35 ng

RT: 16.79 min Scan# 966

Delta R.T. 0.01 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Instrument :

BNA\_M

ClientSampleId :

PB85646BL

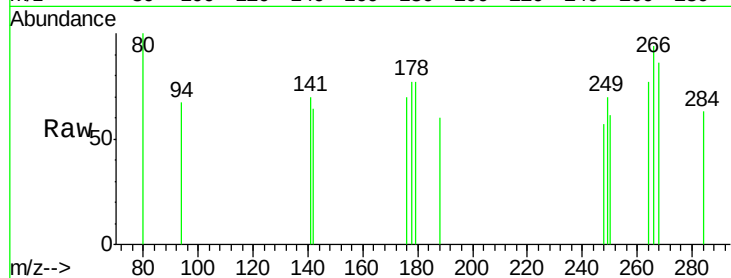
Tgt Ion:266 Resp: 90

Ion Ratio Lower Upper

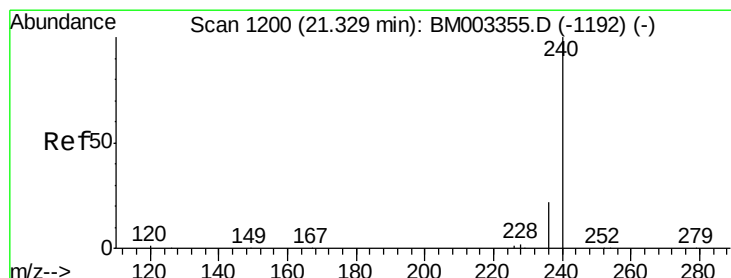
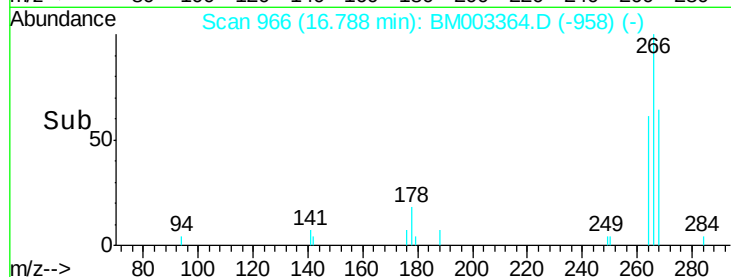
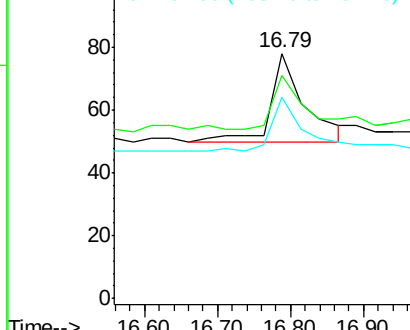
266 100

268 91.0 45.8 68.8#

264 82.1 56.7 85.1



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.32 min Scan# 1199

Delta R.T. -0.01 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

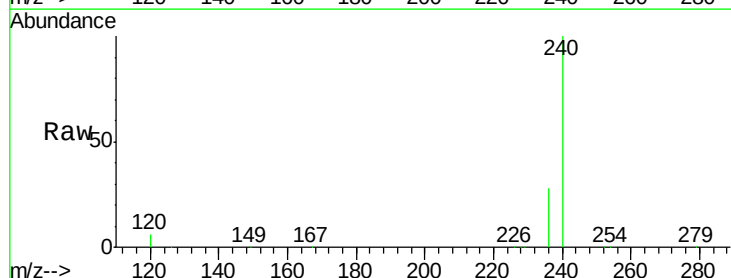
Tgt Ion:240 Resp: 190945

Ion Ratio Lower Upper

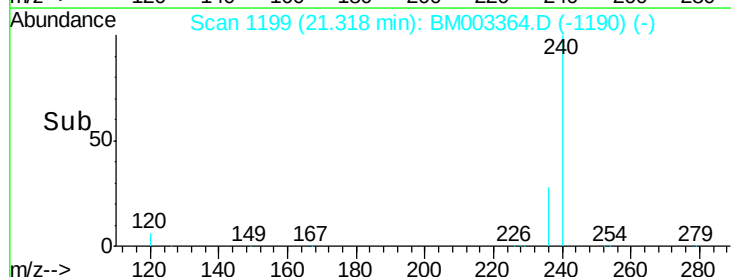
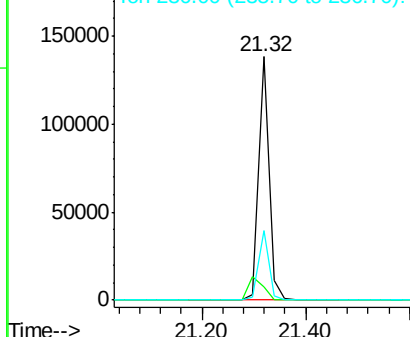
240 100

120 5.7 1.0 1.4#

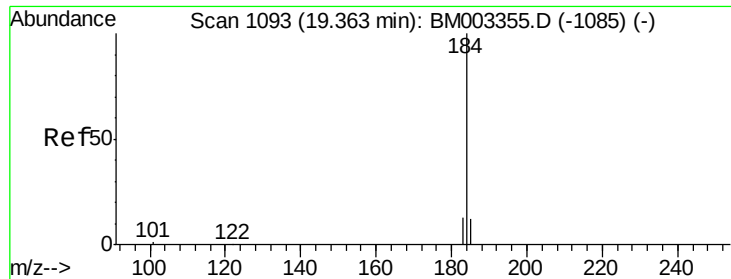
236 28.3 17.9 26.9#



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







#27

Benzidine

Concen: 0.47 ng

RT: 19.75 min Scan# 1115

Delta R.T. 0.38 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Instrument :

BNA\_M

ClientSampleId :

PB85646BL

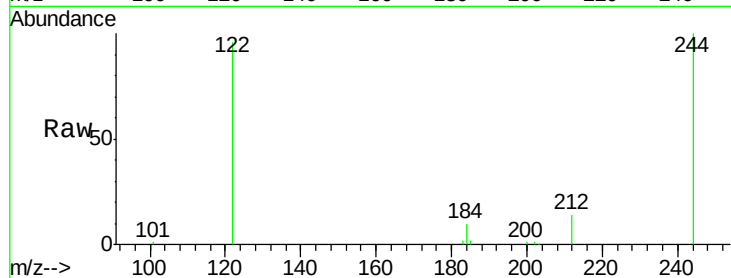
Tgt Ion:184 Resp: 2513

Ion Ratio Lower Upper

184 100

185 17.2 11.6 17.4

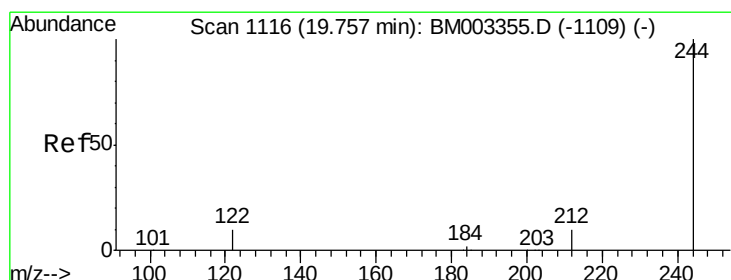
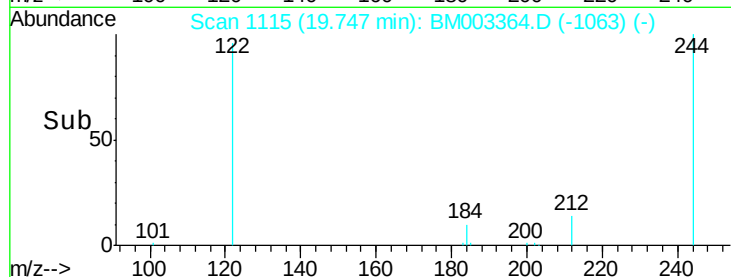
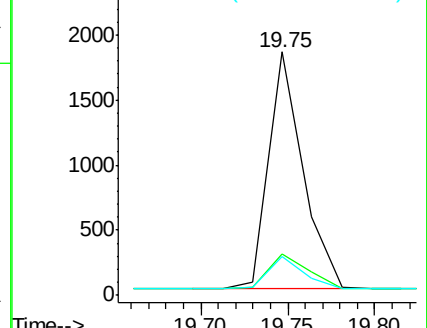
183 15.9 8.6 13.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#29

Terphenyl-d14

Concen: 3.66 ng

RT: 19.76 min Scan# 1116

Delta R.T. 0.01 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

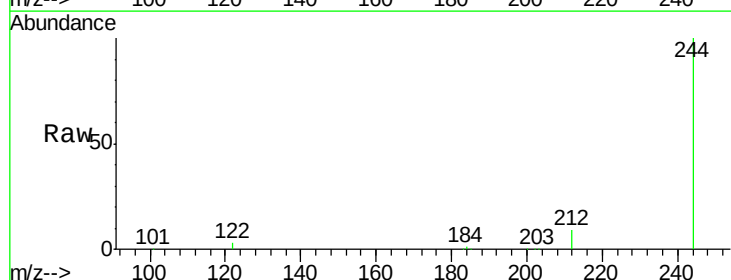
Tgt Ion:244 Resp: 113259

Ion Ratio Lower Upper

244 100

212 8.7 6.5 9.7

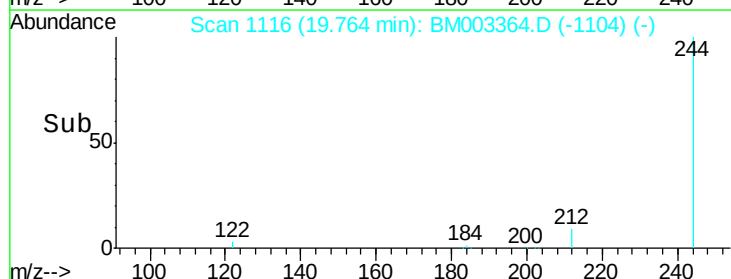
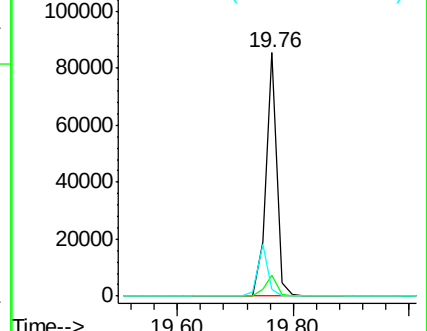
122 2.7 2.0 3.0

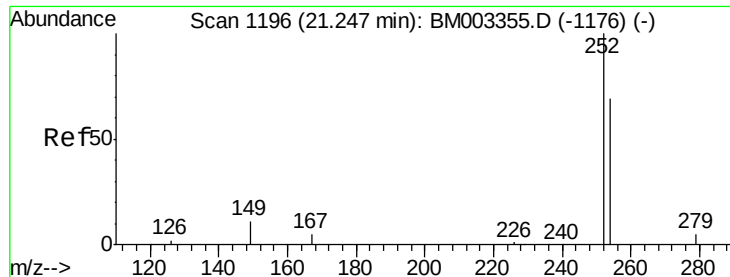


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

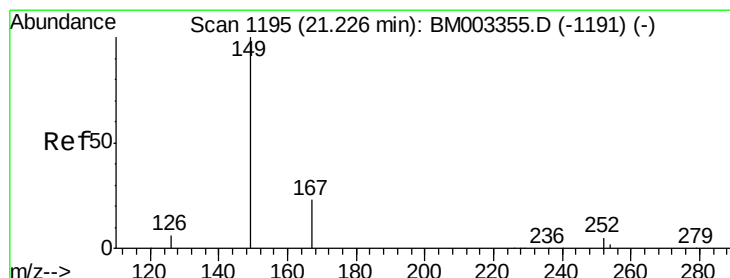
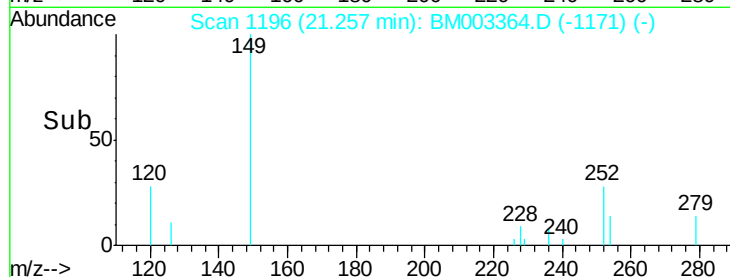
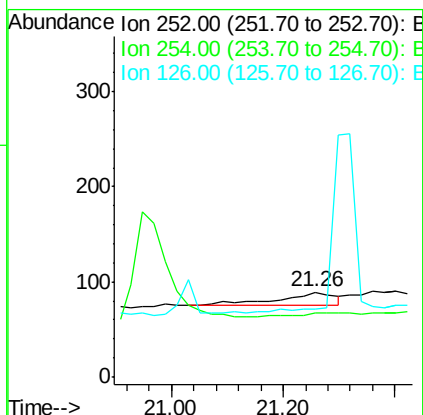
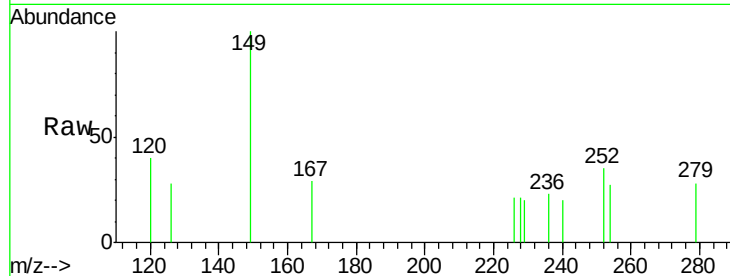




#31  
 3,3'-Dichlorobenzidine  
 Concen: 0.09 ng  
 RT: 21.26 min Scan# 1196  
 Delta R.T. 0.01 min  
 Lab File: BM003364.D  
 Acq: 02 Dec 2015 19:58

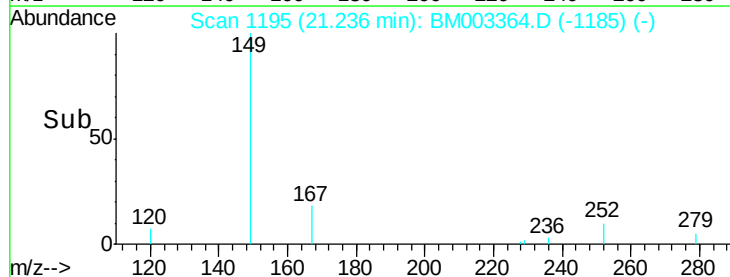
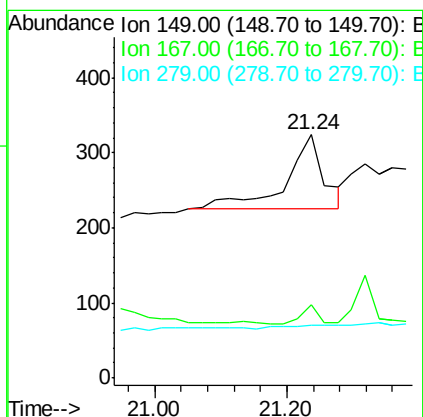
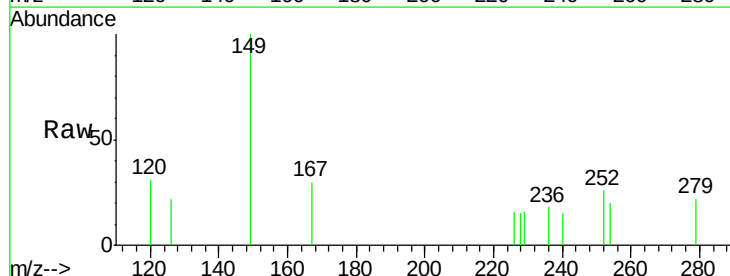
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB85646BL

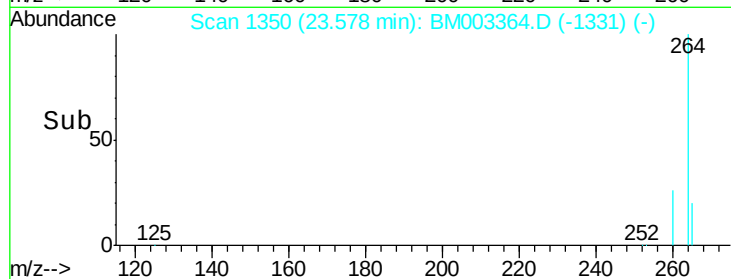
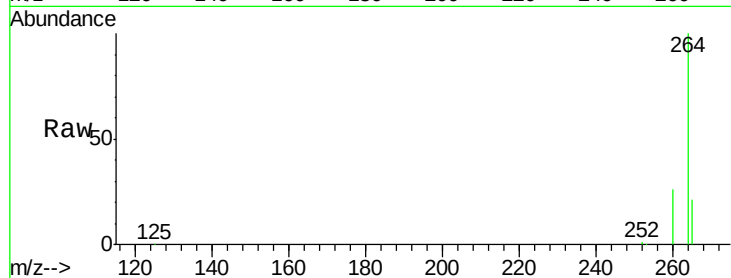
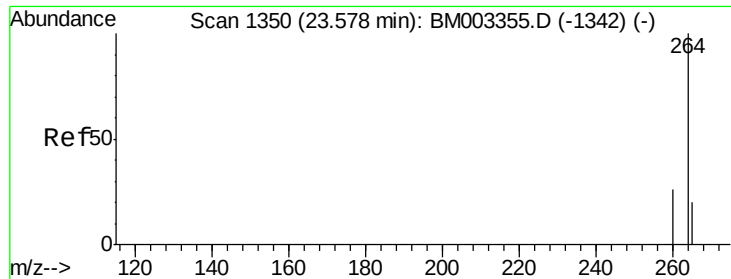
Tgt Ion: 252 Resp: 101  
 Ion Ratio Lower Upper  
 252 100  
 254 76.4 53.7 80.5  
 126 80.9 2.8 4.2#



#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.26 ng  
 RT: 21.24 min Scan# 1195  
 Delta R.T. 0.01 min  
 Lab File: BM003364.D  
 Acq: 02 Dec 2015 19:58

Tgt Ion: 149 Resp: 383  
 Ion Ratio Lower Upper  
 149 100  
 167 10.2 19.6 29.4#  
 279 6.5 0.0 0.0#





#35

Perylene-d12

Concen: 5.00 ng

RT: 23.58 min Scan# 1350

Delta R.T. 0.00 min

Lab File: BM003364.D

Acq: 02 Dec 2015 19:58

Instrument :

BNA\_M

ClientSampleId :

PB85646BL

Tgt Ion: 264 Resp: 139554

Ion Ratio Lower Upper

264 100

260 26.3 19.6 29.4

265 21.0 18.4 27.6

