

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM123015\  
 Data File : BM003852.D  
 Acq On : 29 Dec 2015 05:54  
 Operator : SJ/UM  
 Sample : SSTDCCC0.4EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.466

Quant Time: Dec 29 08:23:33 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM121515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 29 08:19:02 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.68  | 152  | 5177     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.46 | 136  | 22349    | 0.40 | ng/ul | -0.01    |
| 8) Acenaphthene-d10       | 14.33 | 164  | 12572    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.07 | 188  | 29292    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 21.28 | 240  | 26231    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.52 | 264  | 19575    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 2) 1,4-Dioxane-d8           | 3.14  | 96   | 4400     | 1.99 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.07 | 152  | 11852    | 0.44 | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 19.12 | 212  | 28646    | 0.46 | ng/ul | 0.00     |

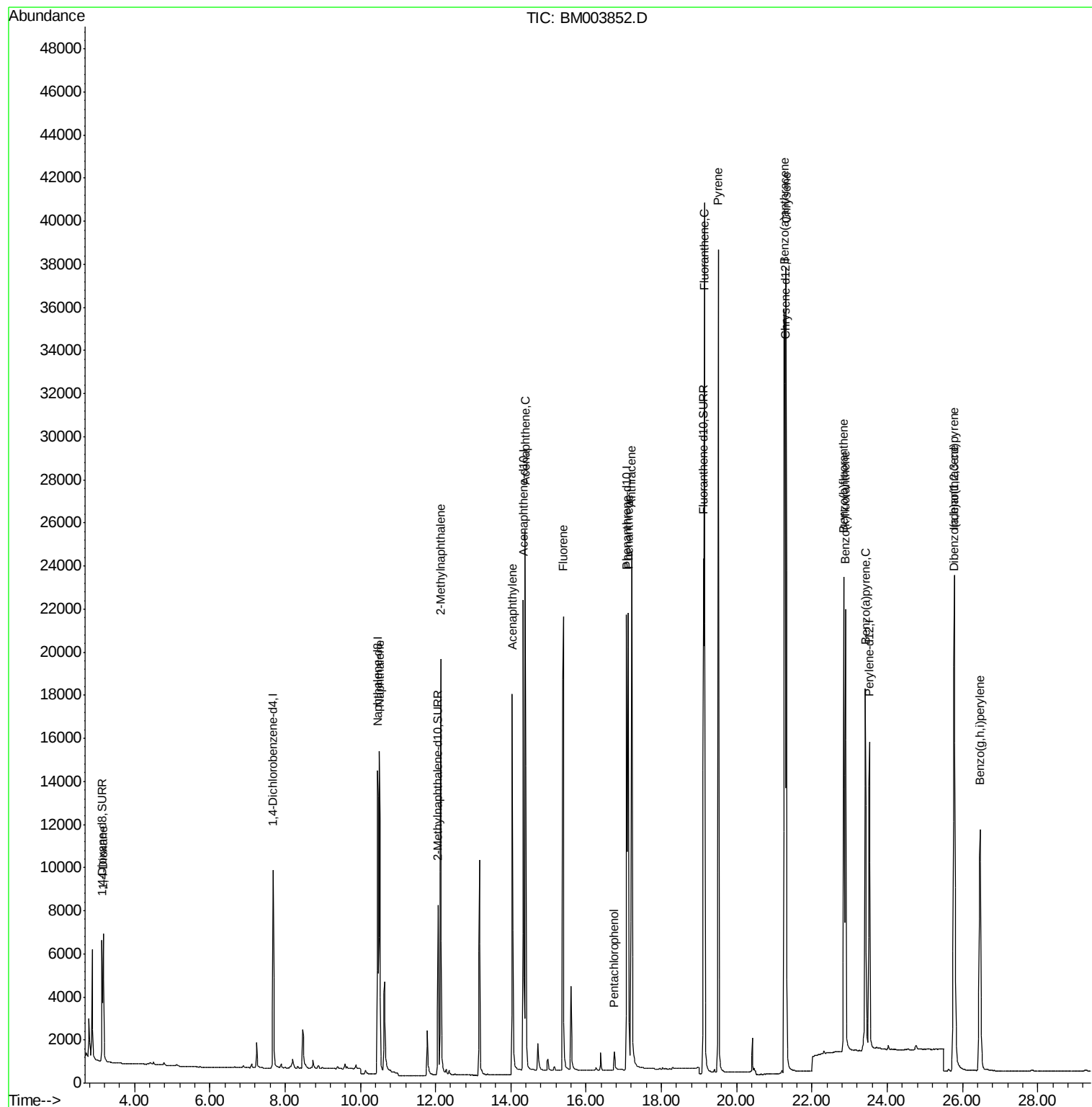
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) 1,4-Dioxane             | 3.17  | 88   | 5311     | 1.88 | ng/ul# | 8      |
| 5) Naphthalene             | 10.51 | 128  | 21897    | 0.43 | ng/ul  | 97     |
| 7) 2-Methylnaphthalene     | 12.13 | 142  | 15619    | 0.46 | ng/ul  | 100    |
| 9) Acenaphthylene          | 14.04 | 152  | 19733    | 0.41 | ng/ul  | 97     |
| 10) Acenaphthene           | 14.38 | 153  | 17212    | 0.44 | ng/ul# | 80     |
| 11) Fluorene               | 15.39 | 166  | 19583    | 0.46 | ng/ul  | 99     |
| 13) Pentachlorophenol      | 16.75 | 266  | 869      | 0.21 | ng/ul  | 97     |
| 14) Phenanthrene           | 17.12 | 178  | 32870    | 0.44 | ng/ul  | 99     |
| 15) Anthracene             | 17.21 | 178  | 29210    | 0.45 | ng/ul  | 99     |
| 17) Fluoranthene           | 19.14 | 202  | 39788    | 0.48 | ng/ul  | 98     |
| 19) Pyrene                 | 19.51 | 202  | 38961    | 0.55 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 21.26 | 228  | 31628    | 0.49 | ng/ul# | 92     |
| 21) Chrysene               | 21.31 | 228  | 32396    | 0.44 | ng/ul  | 92     |
| 23) Benzo(b)fluoranthene   | 22.85 | 252  | 28241    | 0.42 | ng/ul  | 97     |
| 24) Benzo(k)fluoranthene   | 22.89 | 252  | 26062    | 0.43 | ng/ul  | 97     |
| 25) Benzo(a)pyrene         | 23.42 | 252  | 25032    | 0.44 | ng/ul  | 98     |
| 26) Indeno(1,2,3-cd)pyrene | 25.78 | 276  | 27091    | 0.41 | ng/ul# | 91     |
| 27) Dibenzo(a,h)anthracene | 25.79 | 278  | 21804    | 0.41 | ng/ul  | 100    |
| 28) Benzo(g,h,i)perylene   | 26.46 | 276  | 23420    | 0.41 | ng/ul  | 98     |

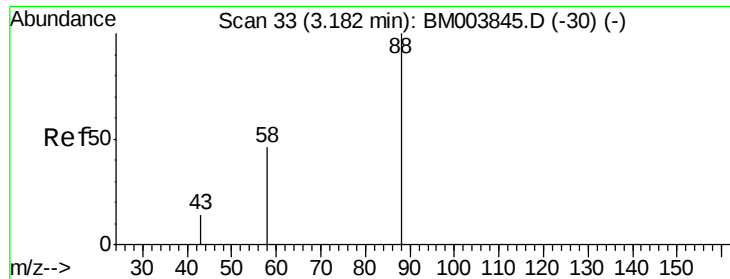
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

1,4-Dioxane

Concen: 1.88 ng/ul

RT: 3.17 min Scan# 32

Delta R.T. -0.02 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

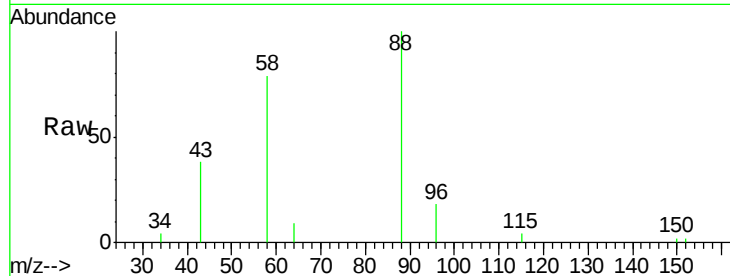
Tgt Ion: 88 Resp: 5311

Ion Ratio Lower Upper

88 100

58 62.9 8.0 12.0#

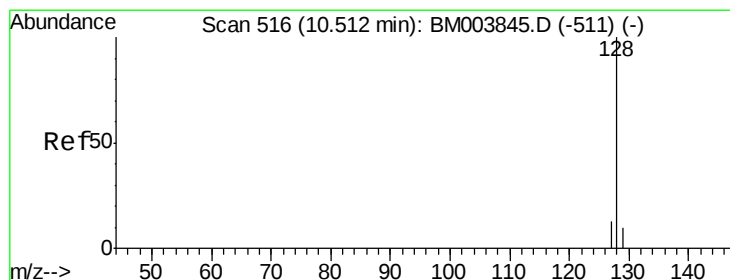
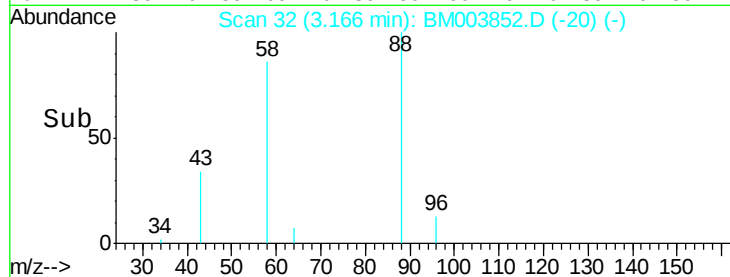
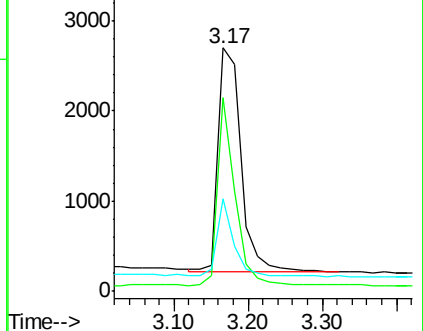
43 25.2 8.0 12.0#



Abundance Ion 88.00 (87.70 to 88.70): BM003845.D (-30) (-)

Ion 58.00 (57.70 to 58.70): BM003845.D (-30) (-)

Ion 43.00 (42.70 to 43.70): BM003845.D (-30) (-)



#5

Naphthalene

Concen: 0.43 ng/ul

RT: 10.51 min Scan# 516

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

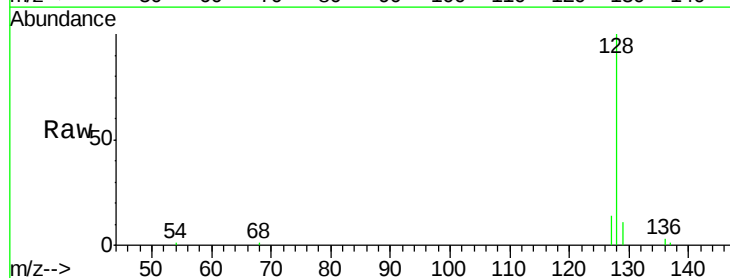
Tgt Ion: 128 Resp: 21897

Ion Ratio Lower Upper

128 100

129 10.9 9.0 13.6

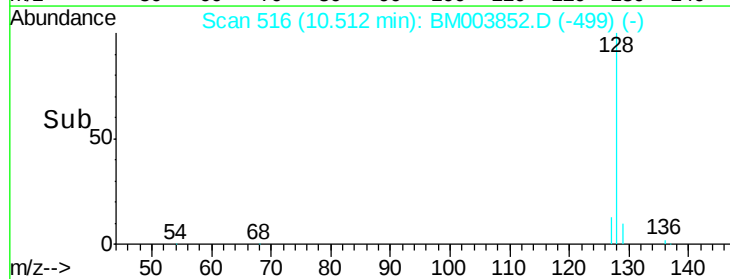
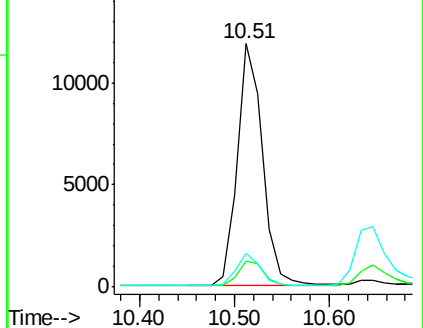
127 13.8 9.6 14.4

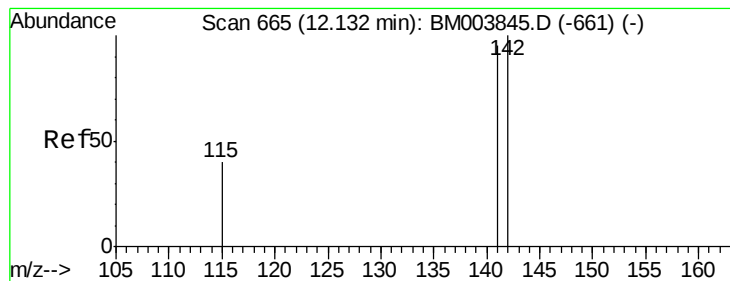


Abundance Ion 128.00 (127.70 to 128.70): BM003845.D (-511) (-)

Ion 129.00 (128.70 to 129.70): BM003845.D (-511) (-)

Ion 127.00 (126.70 to 127.70): BM003845.D (-511) (-)





#7

2-Methylnaphthalene

Concen: 0.46 ng/ul

RT: 12.13 min Scan# 665

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

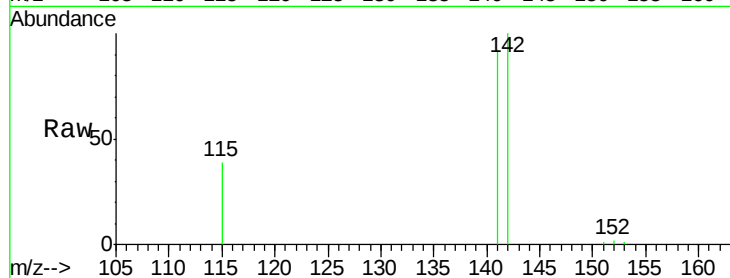
SSTD0.466

Tgt Ion:142 Resp: 15619

Ion Ratio Lower Upper

142 100

141 88.3 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.13

8000

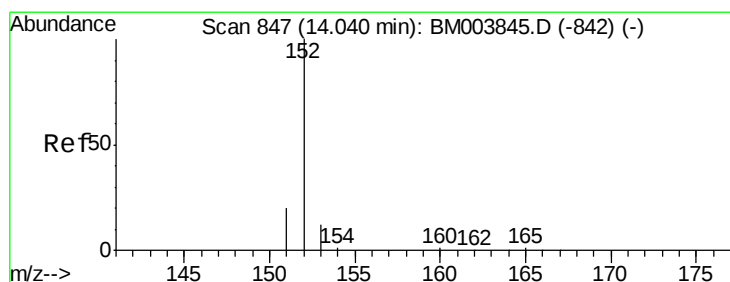
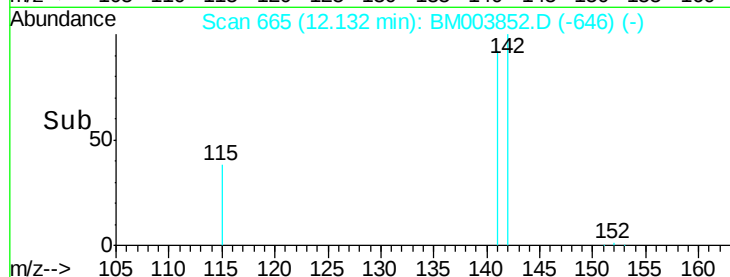
6000

4000

2000

0

Time--> 12.00 12.10 12.20 12.30



#9

Acenaphthylene

Concen: 0.41 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

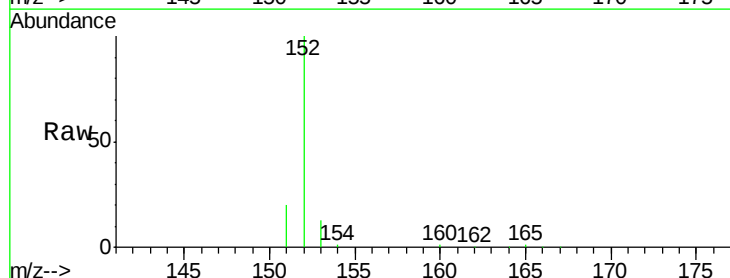
Tgt Ion:152 Resp: 19733

Ion Ratio Lower Upper

152 100

151 20.4 17.6 26.4

153 12.8 9.7 14.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

14.04

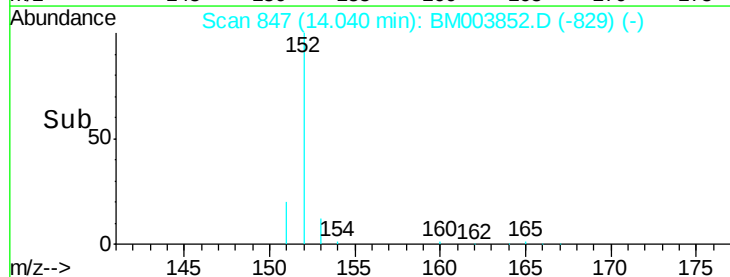
15000

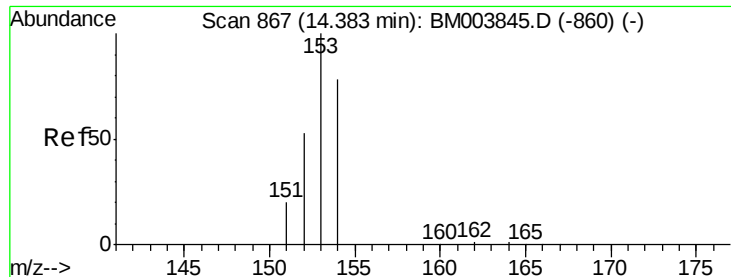
10000

5000

0

Time--> 13.90 14.00 14.10 14.20





#10

Acenaphthene

Concen: 0.44 ng/ul

RT: 14.38 min Scan# 867

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

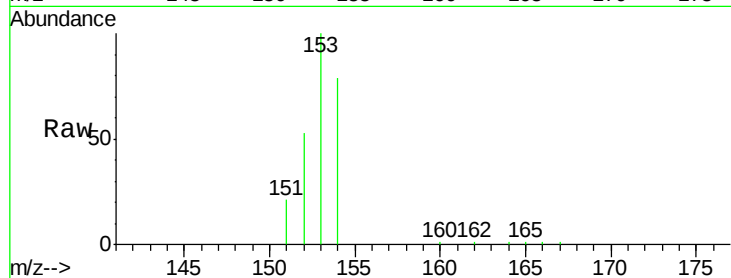
Tgt Ion:153 Resp: 17212

Ion Ratio Lower Upper

153 100

152 52.8 33.9 50.9#

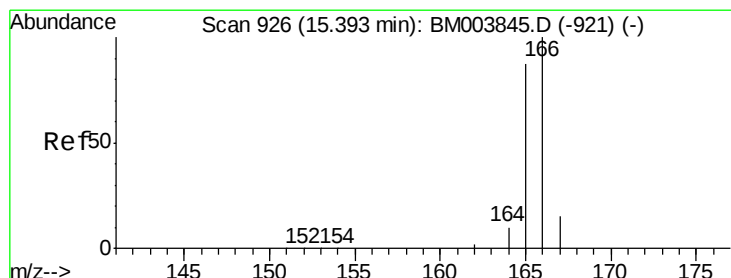
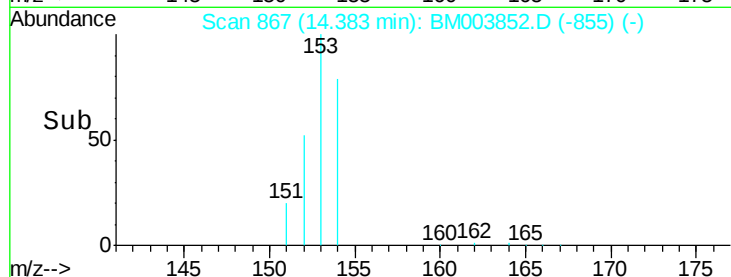
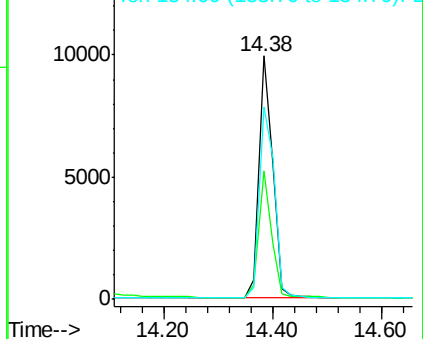
154 79.1 80.6 121.0#



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#11

Fluorene

Concen: 0.46 ng/ul

RT: 15.39 min Scan# 926

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

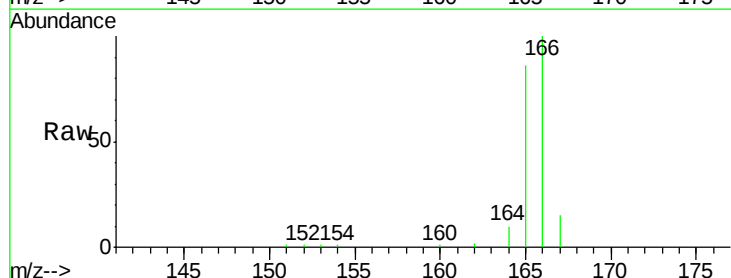
Tgt Ion:166 Resp: 19583

Ion Ratio Lower Upper

166 100

165 86.2 69.6 104.4

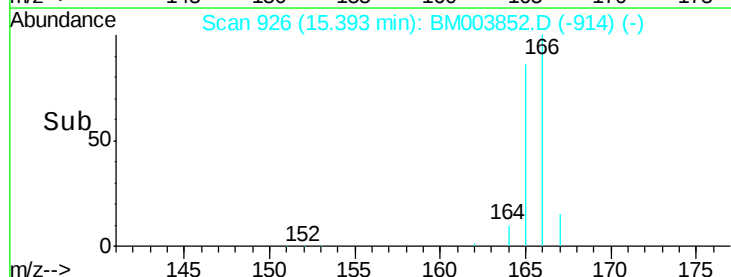
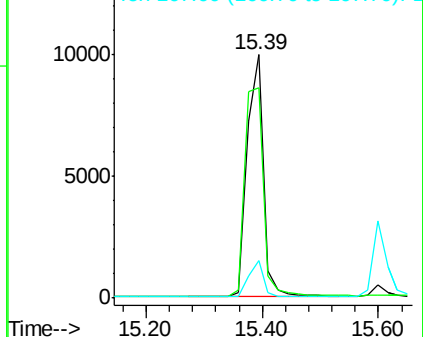
167 15.2 11.9 17.9

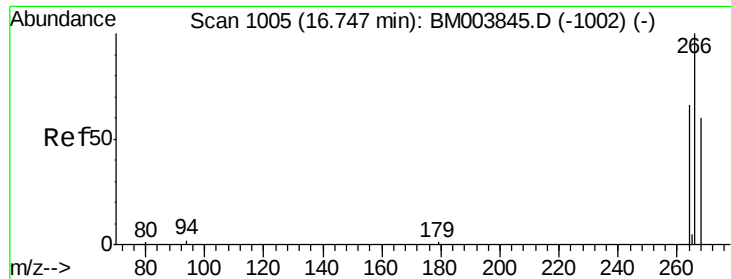


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

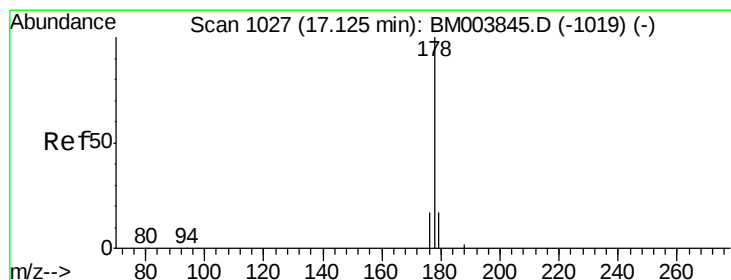
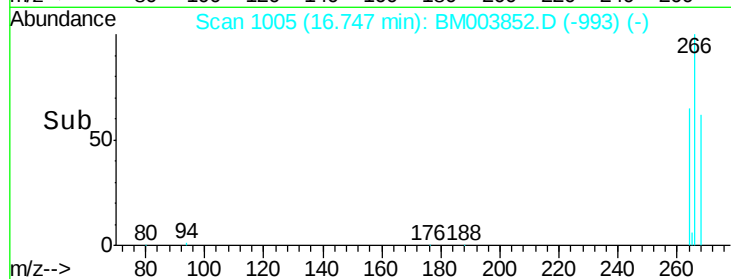
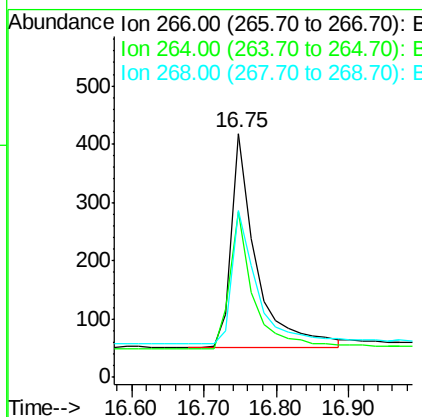
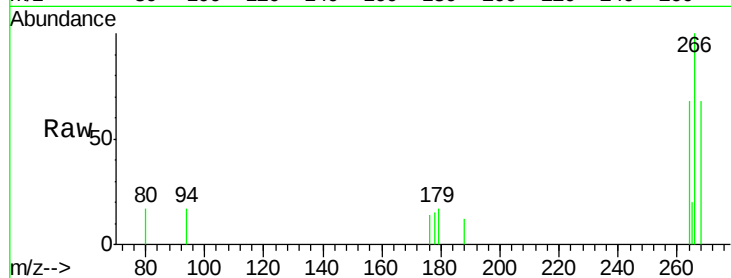




#13  
 Pentachlorophenol  
 Concen: 0.21 ng/ul  
 RT: 16.75 min Scan# 1005  
 Delta R.T. 0.00 min  
 Lab File: BM003852.D  
 Acq: 29 Dec 2015 05:54

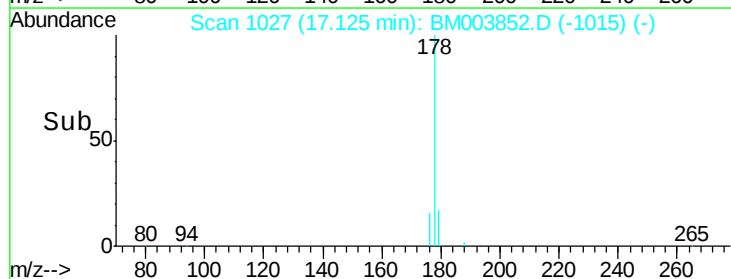
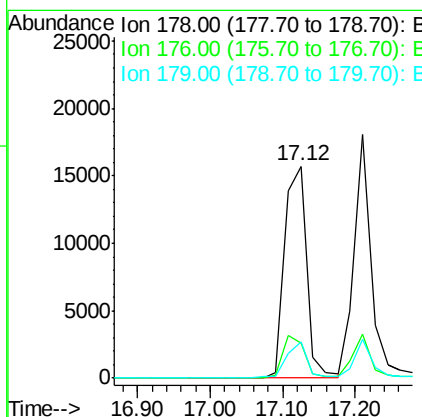
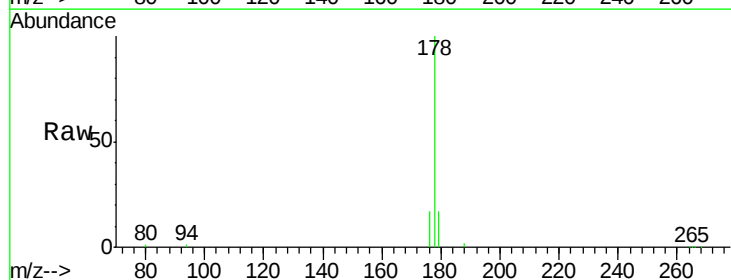
Instrument :  
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 SST0.466

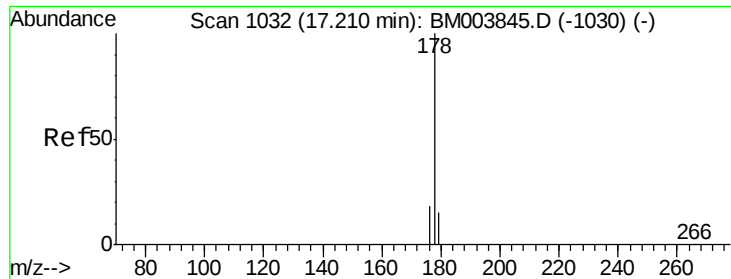
Tgt Ion: 266 Resp: 869  
 Ion Ratio Lower Upper  
 266 100  
 264 63.1 51.8 77.8  
 268 62.1 46.8 70.2



#14  
 Phenanthrene  
 Concen: 0.44 ng/ul  
 RT: 17.12 min Scan# 1027  
 Delta R.T. 0.00 min  
 Lab File: BM003852.D  
 Acq: 29 Dec 2015 05:54

Tgt Ion: 178 Resp: 32870  
 Ion Ratio Lower Upper  
 178 100  
 176 16.8 13.0 19.4  
 179 17.3 14.2 21.2





#15

Anthracene

Concen: 0.45 ng/ul

RT: 17.21 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

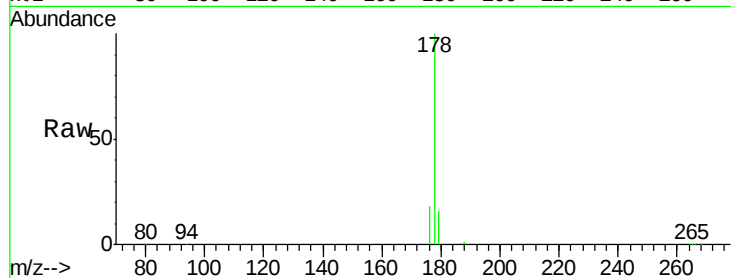
Tgt Ion:178 Resp: 29210

Ion Ratio Lower Upper

178 100

176 18.0 14.0 21.0

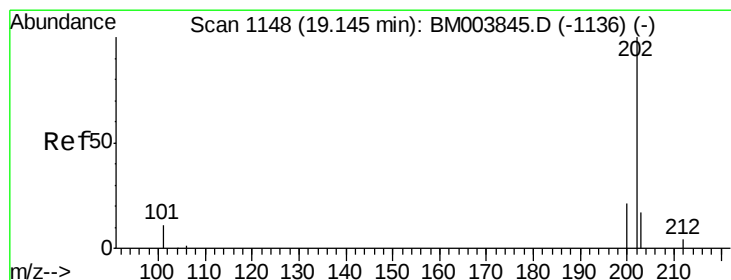
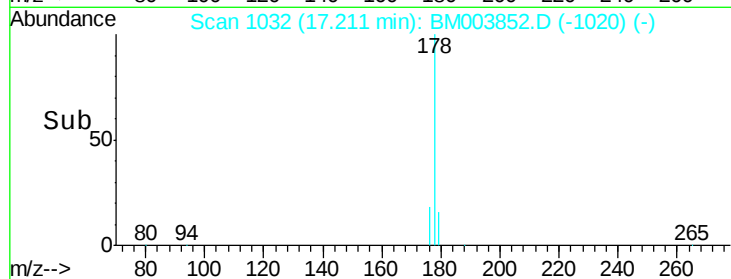
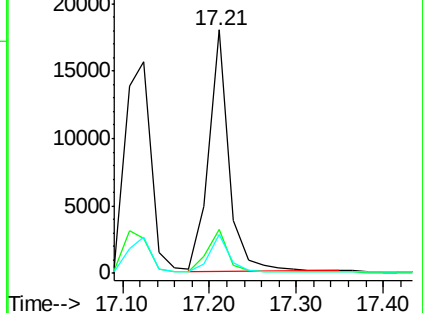
179 15.9 12.9 19.3



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



#17

Fluoranthene

Concen: 0.48 ng/ul

RT: 19.14 min Scan# 1148

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

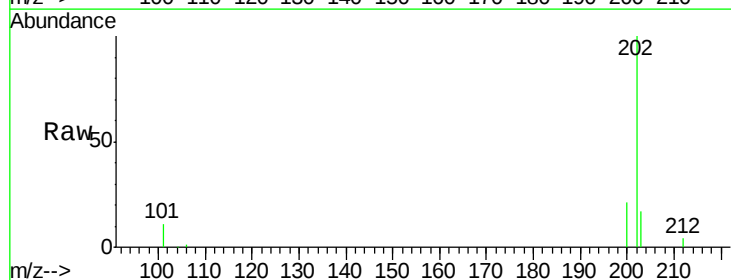
Tgt Ion:202 Resp: 39788

Ion Ratio Lower Upper

202 100

101 10.6 0.0 29.6

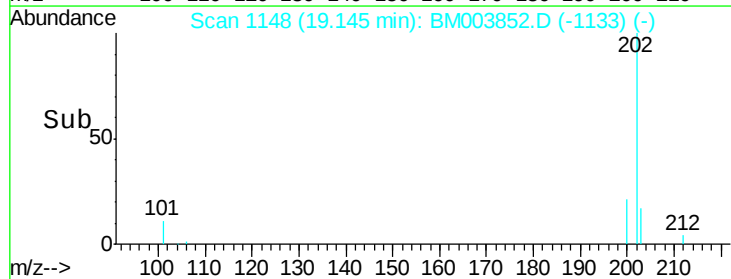
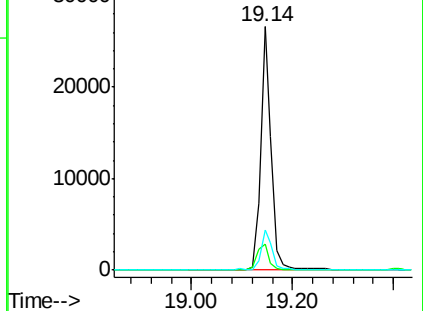
203 16.7 0.0 36.3

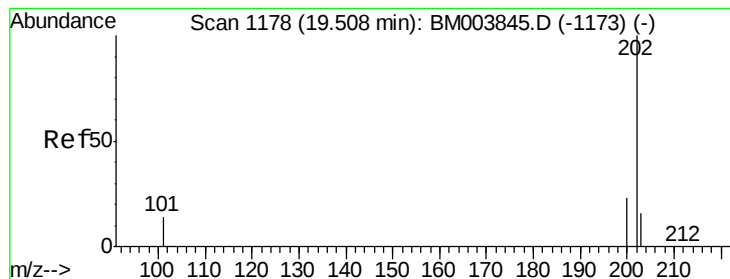


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

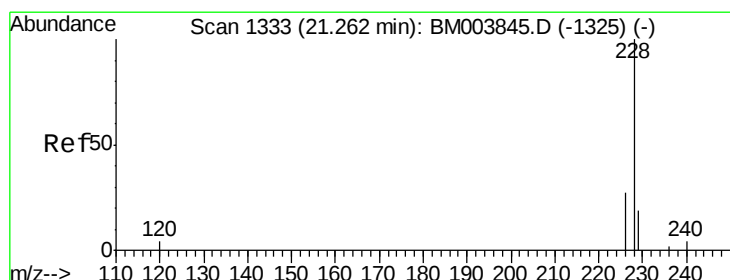
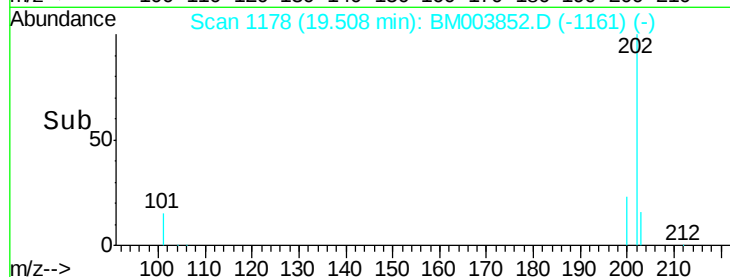
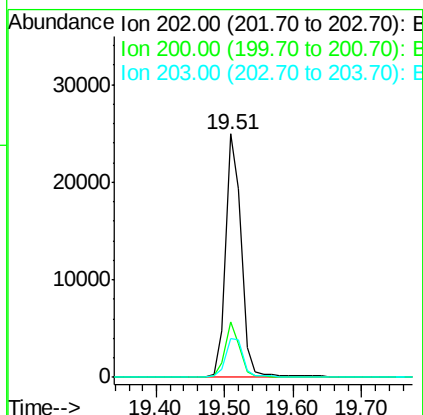
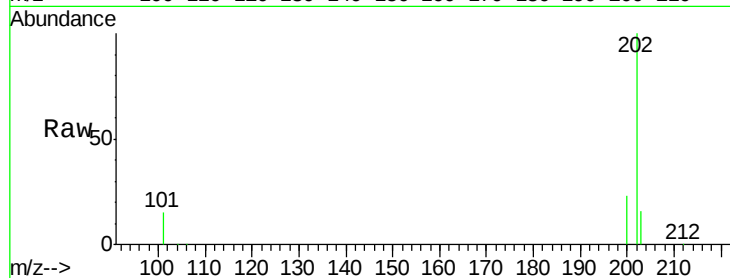




#19  
Pyrene  
Concen: 0.55 ng/ul  
RT: 19.51 min Scan# 1178  
Delta R.T. 0.00 min  
Lab File: BM003852.D  
Acq: 29 Dec 2015 05:54

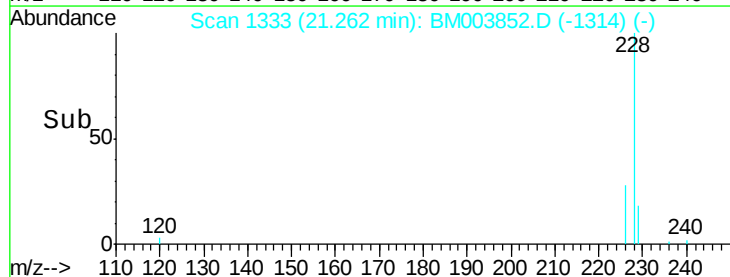
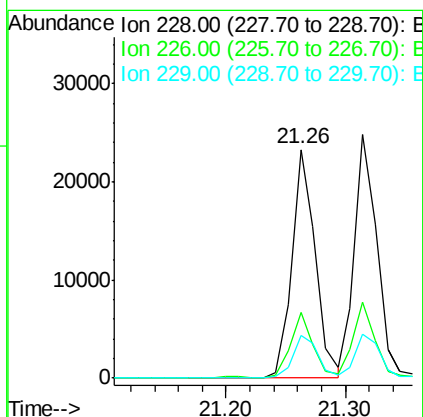
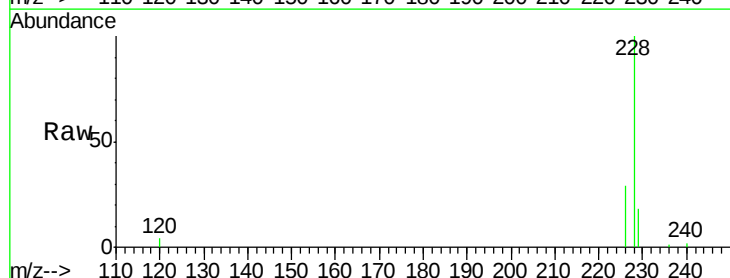
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.466

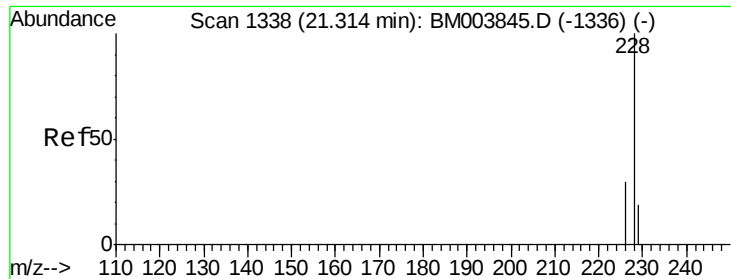
Tgt Ion: 202 Resp: 38961  
Ion Ratio Lower Upper  
202 100  
200 22.8 17.8 26.8  
203 15.9 12.8 19.2



#20  
Benzo(a)anthracene  
Concen: 0.49 ng/ul  
RT: 21.26 min Scan# 1333  
Delta R.T. 0.00 min  
Lab File: BM003852.D  
Acq: 29 Dec 2015 05:54

Tgt Ion: 228 Resp: 31628  
Ion Ratio Lower Upper  
228 100  
226 28.6 18.8 28.2#  
229 18.4 17.1 25.7





#21

Chrysene

Concen: 0.44 ng/ul

RT: 21.31 min Scan# 1338

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

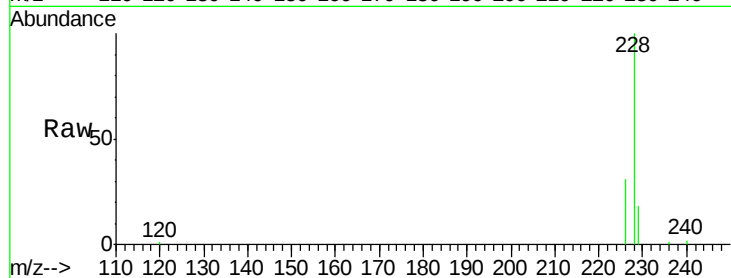
Tgt Ion:228 Resp: 32396

Ion Ratio Lower Upper

228 100

226 31.2 21.2 31.8

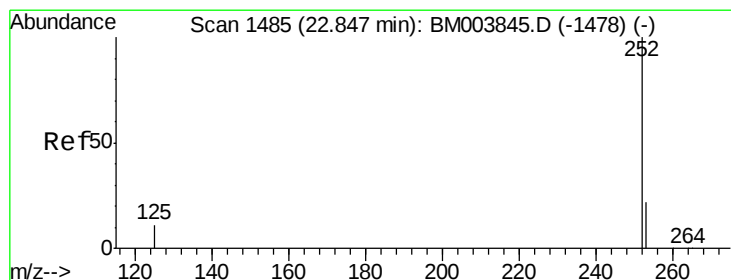
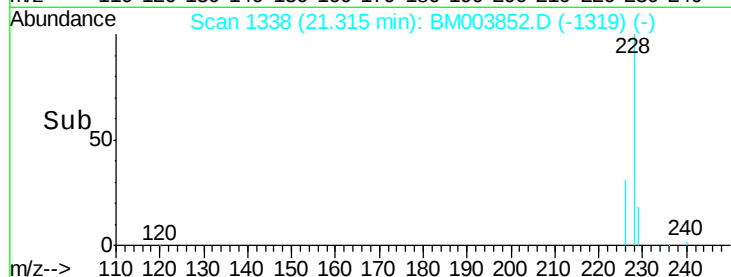
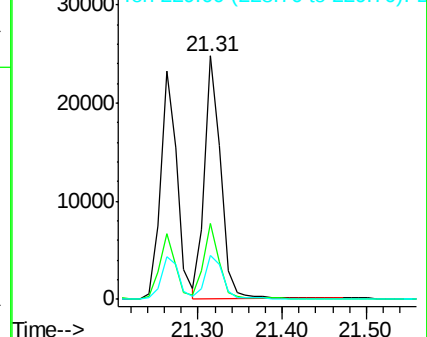
229 18.1 17.0 25.6



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



#23

Benzo(b)fluoranthene

Concen: 0.42 ng/ul

RT: 22.85 min Scan# 1485

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

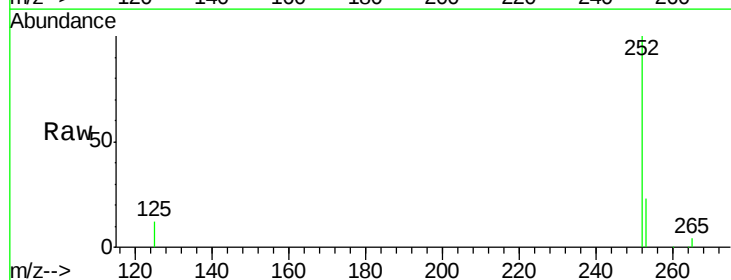
Tgt Ion:252 Resp: 28241

Ion Ratio Lower Upper

252 100

253 23.4 0.0 45.4

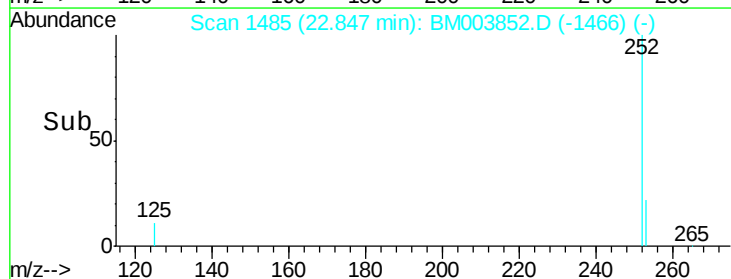
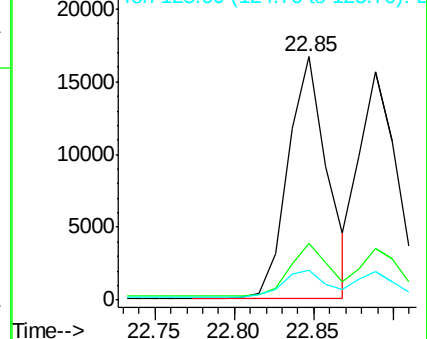
125 12.2 0.0 28.8

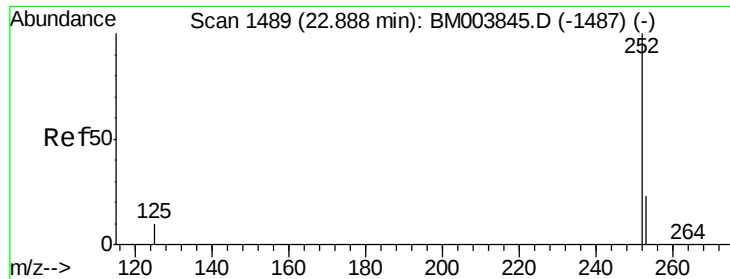


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.43 ng/ul

RT: 22.89 min Scan# 1489

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

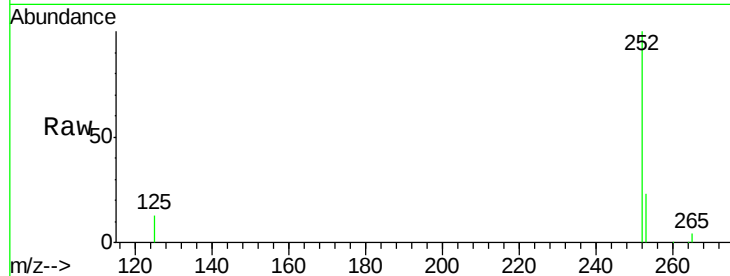
Tgt Ion:252 Resp: 26062

Ion Ratio Lower Upper

252 100

253 22.8 19.8 29.8

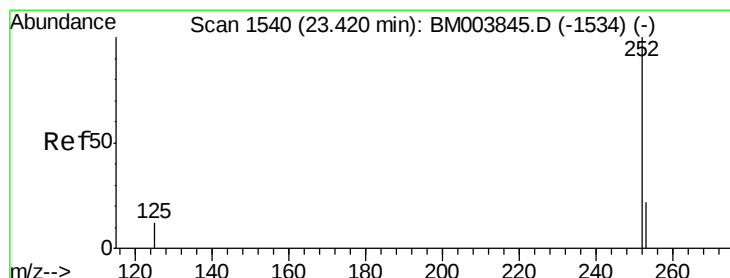
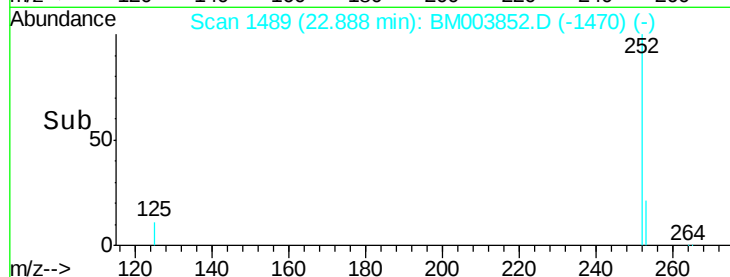
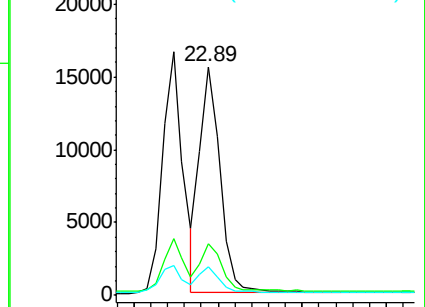
125 12.5 10.4 15.6



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



#25

Benzo(a)pyrene

Concen: 0.44 ng/ul

RT: 23.42 min Scan# 1540

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

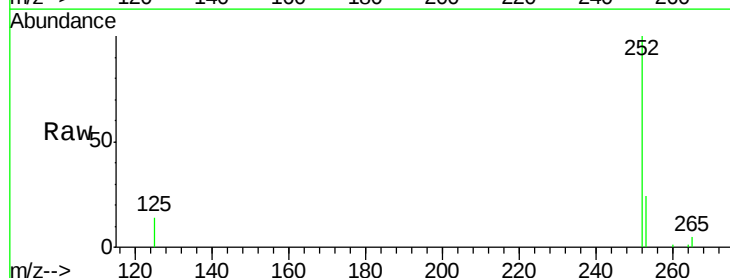
Tgt Ion:252 Resp: 25032

Ion Ratio Lower Upper

252 100

253 23.9 19.4 29.2

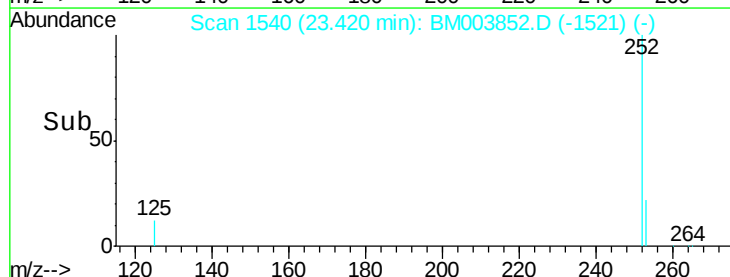
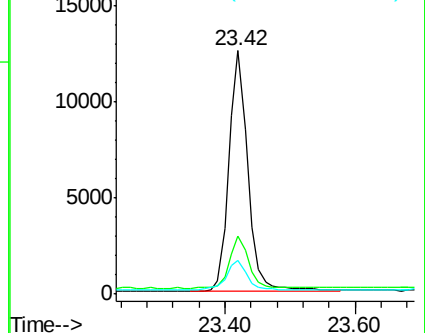
125 13.8 12.7 19.1

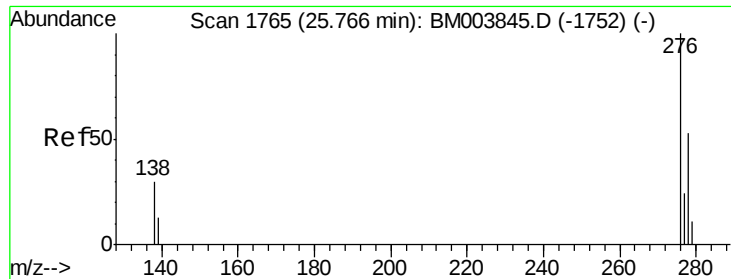


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.41 ng/ul

RT: 25.78 min Scan# 1766

Delta R.T. 0.01 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

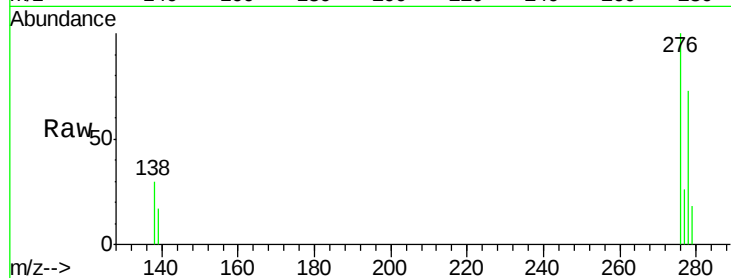
Tgt Ion:276 Resp: 27091

Ion Ratio Lower Upper

276 100

138 29.8 16.3 24.5#

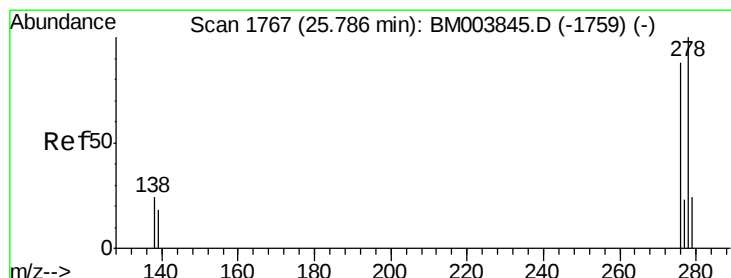
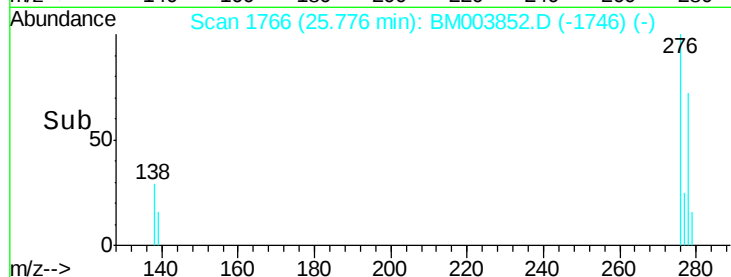
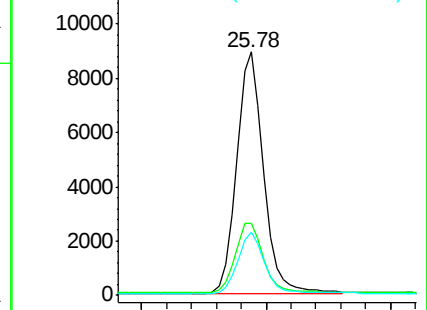
277 24.8 19.8 29.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#27

Dibenzo(a,h)anthracene

Concen: 0.41 ng/ul

RT: 25.79 min Scan# 1767

Delta R.T. 0.00 min

Lab File: BM003852.D

Acq: 29 Dec 2015 05:54

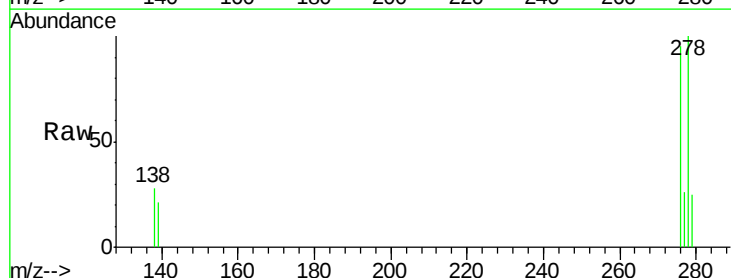
Tgt Ion:278 Resp: 21804

Ion Ratio Lower Upper

278 100

139 20.5 16.4 24.6

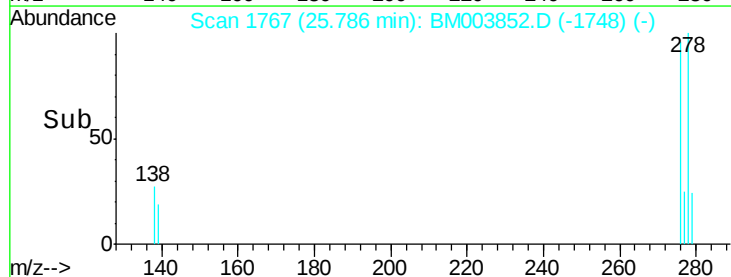
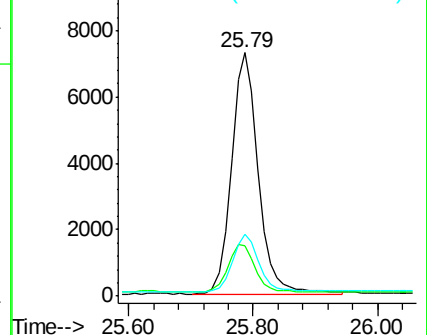
279 25.2 20.2 30.2

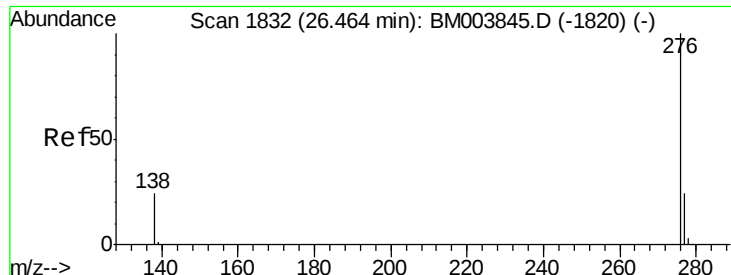


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#28

Benzo(g,h,i)perylene

Concen: 0.41 ng/ul

RT: 26.46 min Scan# 1832

Delta R.T. 0.00 min

Lab File: BM003852.D

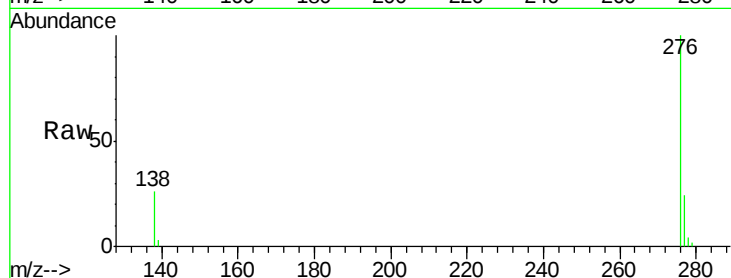
Acq: 29 Dec 2015 05:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466



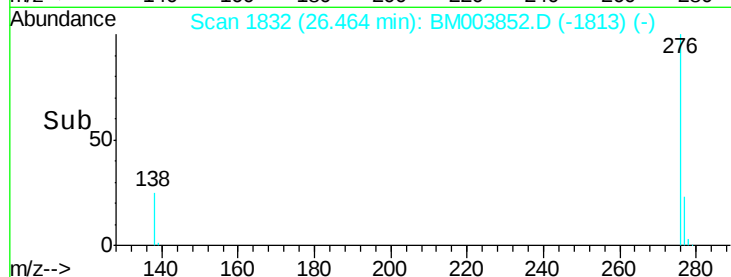
Tgt Ion: 276 Resp: 23420

Ion Ratio Lower Upper

276 100

277 24.1 18.9 28.3

138 26.2 22.5 33.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

