

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011619\  
 Data File : BM018581.D  
 Acq On : 16 Jan 2019 13:49  
 Operator : JU/SJ  
 Sample : K1102-05 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

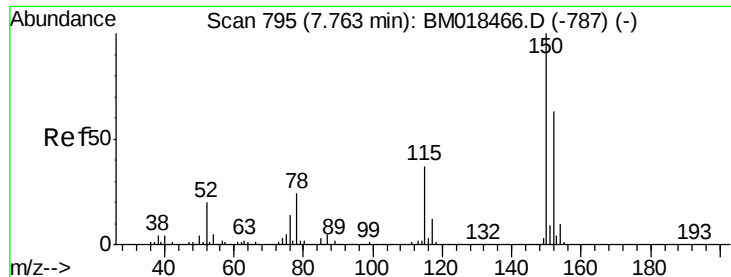
Instrument :  
 BNA\_M  
 ClientSampleId :  
 CPSB-13(10-15)

Quant Time: Jan 16 17:13:26 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 16 13:36:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.75  | 152  | 322631   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.54 | 136  | 1315427  | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.40 | 164  | 730555   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.15 | 188  | 1605416  | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 21.35 | 240  | 1459674  | 20.00  | ng    | 0.01        |
| 87) Perylene-d12               | 23.64 | 264  | 1326721  | 20.00  | ng    | 0.04        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.33  | 112  | 255184   | 14.60  | ng    | 0.00        |
| 7) Phenol-d6                   | 6.92  | 99   | 337129   | 15.19  | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 8.91  | 82   | 211428   | 9.32   | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 15.89 | 330  | 144633   | 15.55  | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.01 | 172  | 526371   | 9.40   | ng    | 0.00        |
| 79) Terphenyl-d14              | 19.79 | 244  | 744797   | 10.76  | ng    | 0.01        |
| Target Compounds               |       |      |          |        |       |             |
| 50) Dimethylphthalate          | 13.85 | 163  | 134626   | 2.244  | ng    | Qvalue # 93 |
| 52) Acenaphthene               | 14.46 | 154  | 529218   | 11.999 | ng    | # 99        |
| 72) Anthracene                 | 17.29 | 178  | 313430   | 3.817  | ng    | # 77        |
| 75) Fluoranthene               | 19.22 | 202  | 1421893  | 14.443 | ng    | # 92        |
| 78) Pyrene                     | 19.59 | 202  | 1322874  | 15.289 | ng    | # 92        |
| 81) Benzo(a)anthracene         | 21.34 | 228  | 288384   | 3.354  | ng    | # 62        |
| 83) Chrysene                   | 21.39 | 228  | 377331   | 4.544  | ng    | # 65        |
| 84) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 770320   | 14.449 | ng    | # 81        |

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

```
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Acq On    : 16 Jan 2019 13:49  
Operator  : JU/SJ  
Sample    : K1102-05 5X  
Misc      :  
ALS Vial  : 6      Sample Multiplier: 1
```

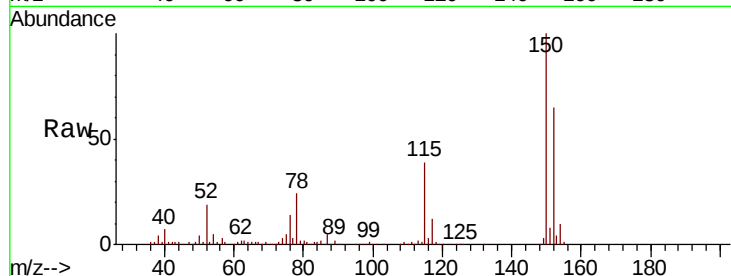


#1

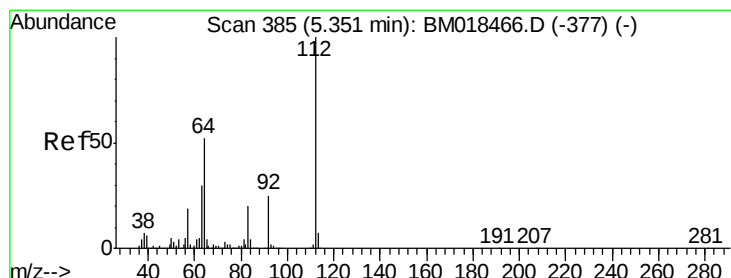
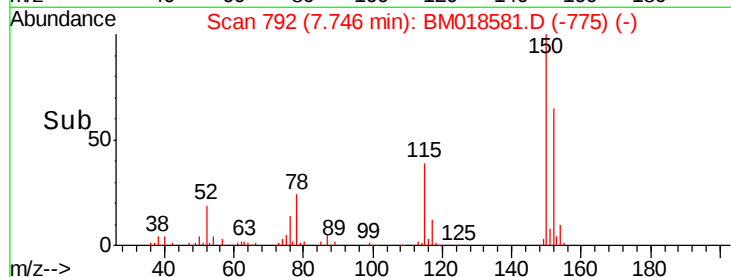
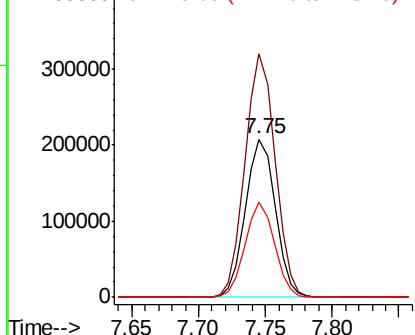
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.75 min Scan# 792  
Delta R.T. 0.00 min  
Lab File: BM018581.D  
Acq: 16 Jan 2019 13:49

Instrument :  
BNA\_M  
ClientSampleId :  
CPSB-13(10-15)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.2 | 126.9 | 190.3 |
| 115     | 59.9  | 45.5  | 68.3  |



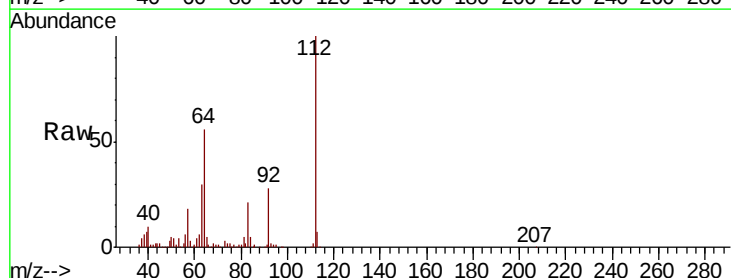
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



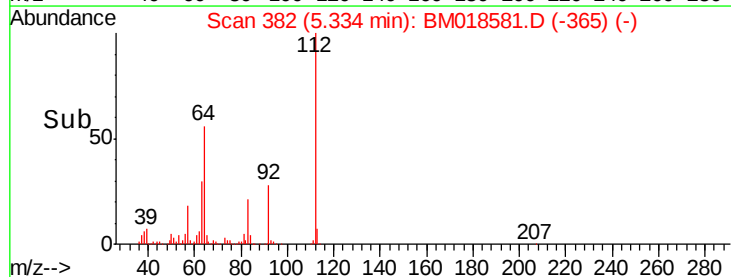
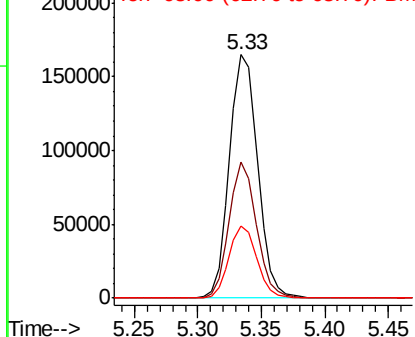
#5

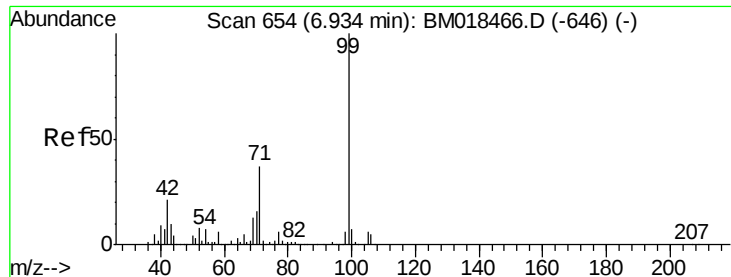
2-Fluorophenol  
Concen: 14.605 ng  
RT: 5.33 min Scan# 382  
Delta R.T. 0.00 min  
Lab File: BM018581.D  
Acq: 16 Jan 2019 13:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.8  | 46.5  | 69.7  |
| 63      | 29.9  | 25.2  | 37.8  |



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





#7

Phenol-d6

Concen: 15.191 ng

RT: 6.92 min Scan# 651

Delta R.T. -0.01 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

Instrument :

BNA\_M

ClientSampleId :

CPSB-13(10-15)

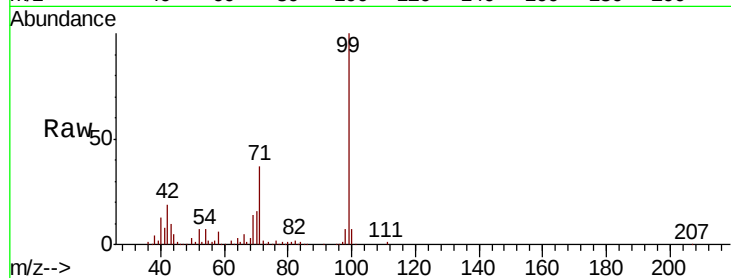
Tot Ion: 99 Resp: 337129

Ion Ratio Lower Upper

99 100

42 19.4 17.3 25.9

71 36.8 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BM018466.D (-646) (-)

Ion 42.00 (41.70 to 42.70): BM018466.D (-646) (-)

Ion 71.00 (70.70 to 71.70): BM018466.D (-646) (-)

6.92

250000

200000

150000

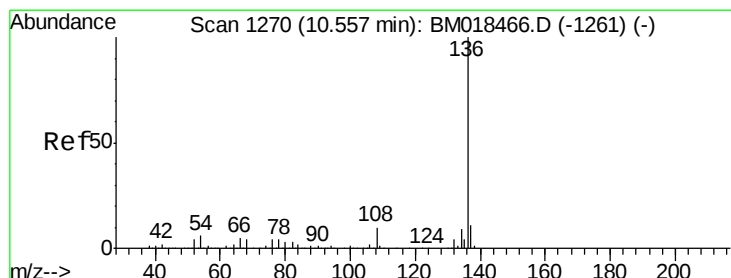
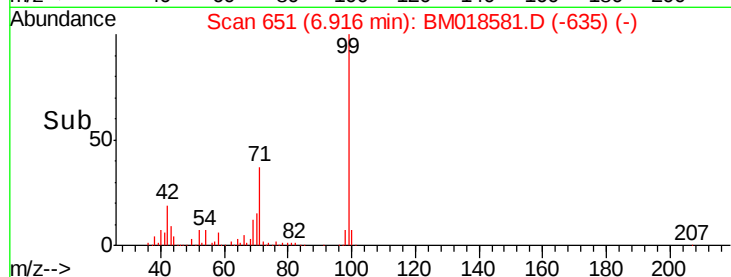
100000

50000

0

6.85 6.90 6.95 7.00

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.54 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

Tgt Ion: 136 Resp: 1315427

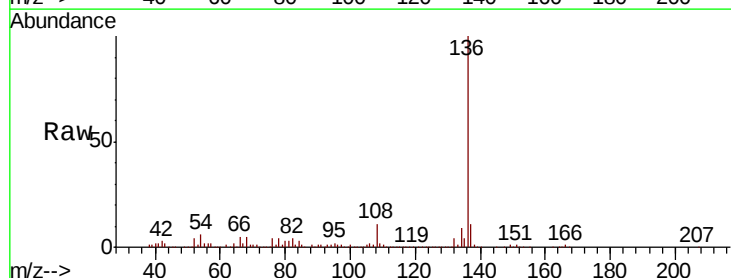
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 6.5 6.0 9.0

68 4.9 4.5 6.7



Abundance Ion 136.00 (135.70 to 136.70): BM018466.D (-1261) (-)

Ion 137.00 (136.70 to 137.70): BM018466.D (-1261) (-)

Ion 54.00 (53.70 to 54.70): BM018466.D (-1261) (-)

Ion 68.00 (67.70 to 68.70): BM018466.D (-1261) (-)

10.54

1200000

1000000

800000

600000

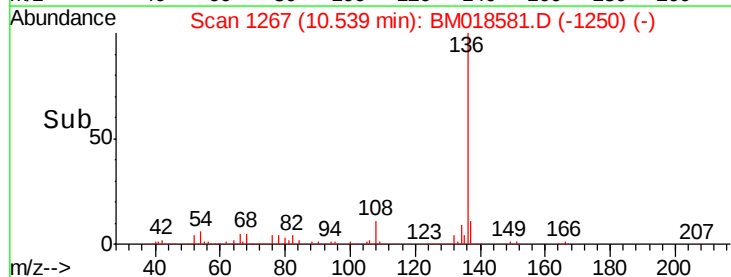
400000

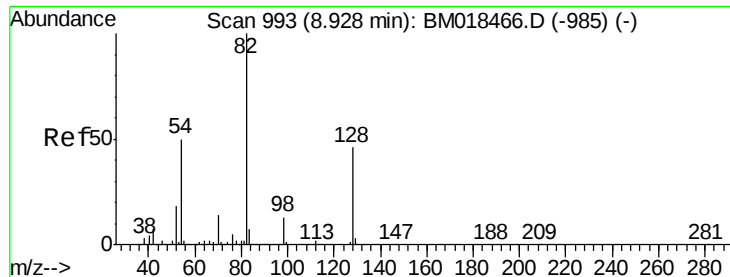
200000

0

10.50 10.55 10.60

Time-->

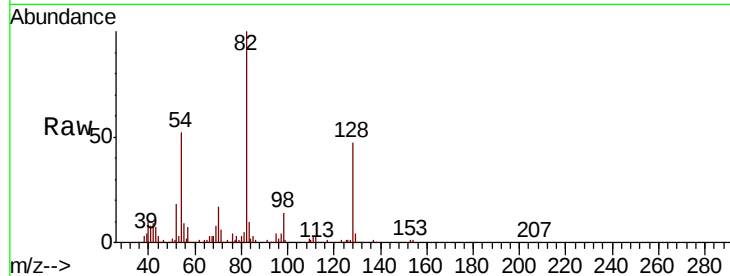




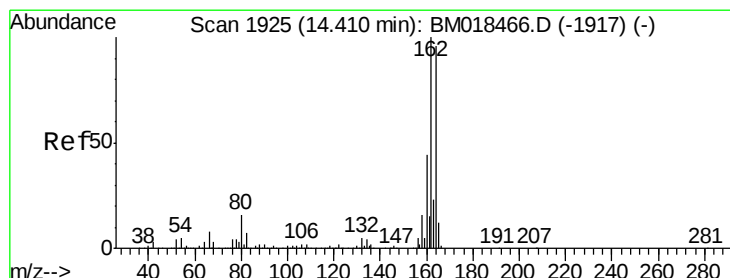
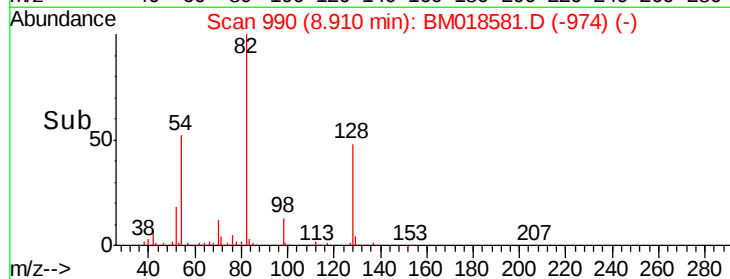
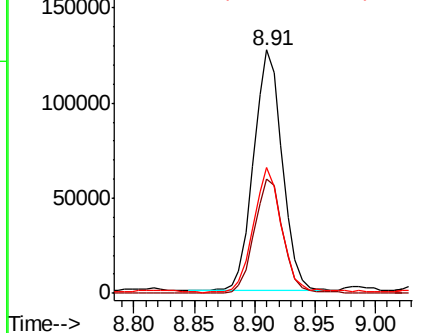
#23  
Nitrobenzene-d5  
Concen: 9.318 ng  
RT: 8.91 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: BM018581.D  
Acq: 16 Jan 2019 13:49

Instrument :  
BNA\_M  
ClientSampleId :  
CPSB-13(10-15)

| Tot Ion   | 82    | Resp  | 211428 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.0  | 36.3  | 54.5   |
| 54        | 51.9  | 41.7  | 62.5   |

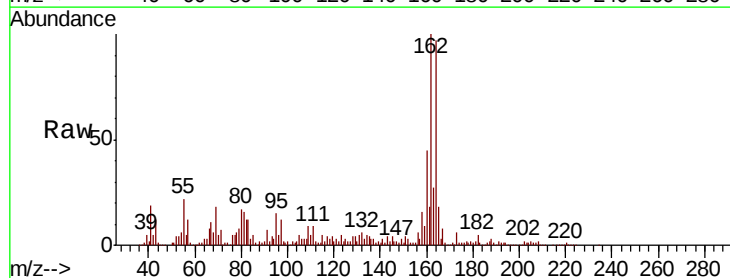


Abundance Ion 82.00 (81.70 to 82.70): BM018466.D (-985) (-)

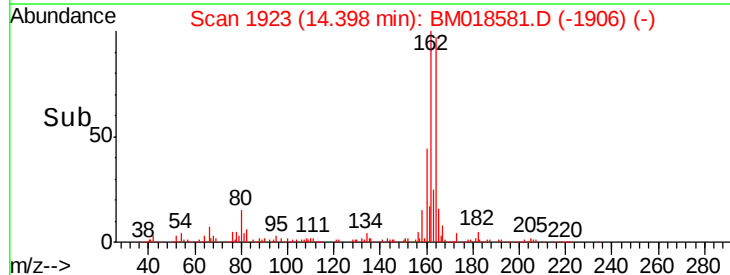
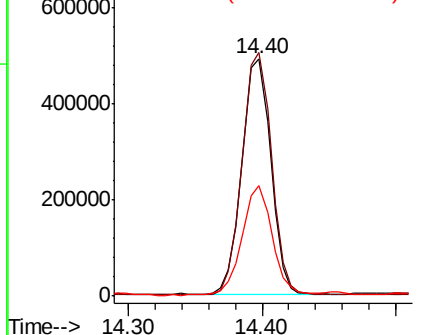


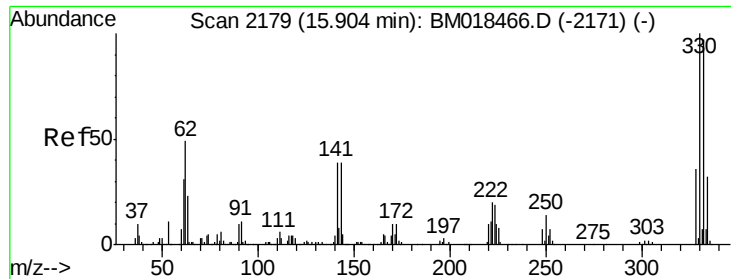
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.40 min Scan# 1923  
Delta R.T. 0.00 min  
Lab File: BM018581.D  
Acq: 16 Jan 2019 13:49

| Tgt Ion   | 164   | Resp  | 730555 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 102.6 | 83.0  | 124.4  |
| 160       | 46.4  | 37.1  | 55.7   |



Abundance Ion 164.00 (163.70 to 164.70): BM018466.D (-1917) (-)

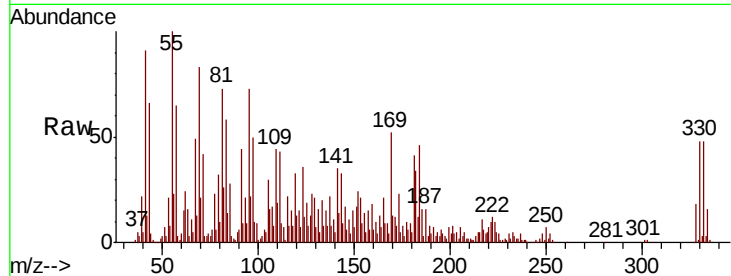




#42  
 2,4,6-Tribromophenol  
 Concen: 15.549 ng  
 RT: 15.89 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: BM018581.D  
 Acq: 16 Jan 2019 13:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CPSB-13(10-15)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 77.6  | 116.4 |
| 141     | 40.5  | 31.7  | 47.5  |

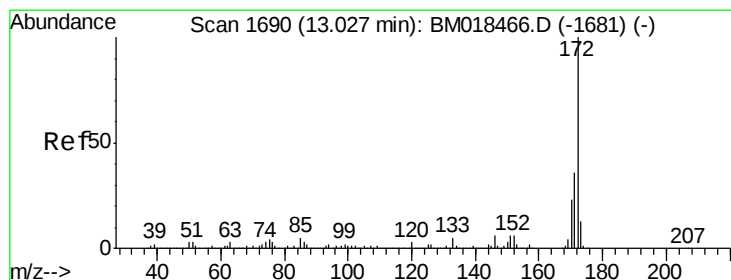
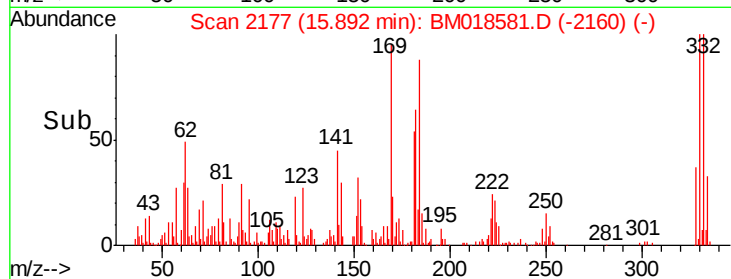
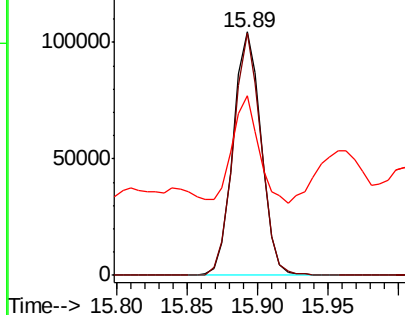


Abundance

Ion 329.80 (329.50 to 330.50): E

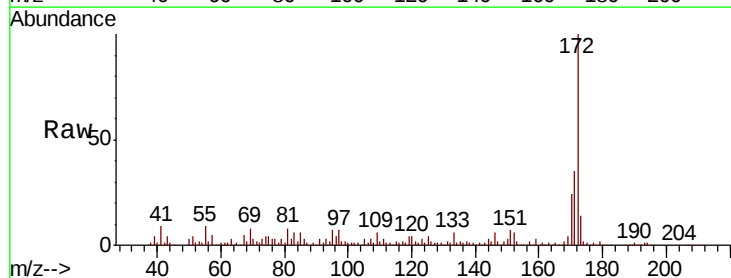
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 9.402 ng  
 RT: 13.01 min Scan# 1687  
 Delta R.T. 0.00 min  
 Lab File: BM018581.D  
 Acq: 16 Jan 2019 13:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 28.2  | 42.4  |
| 170     | 23.7  | 18.9  | 28.3  |

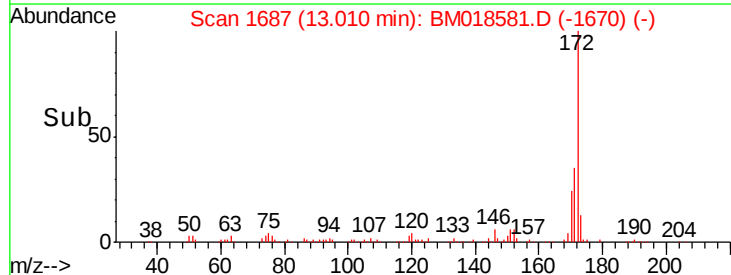
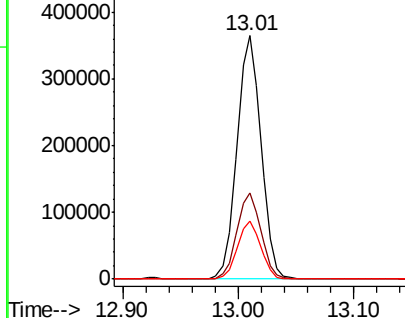


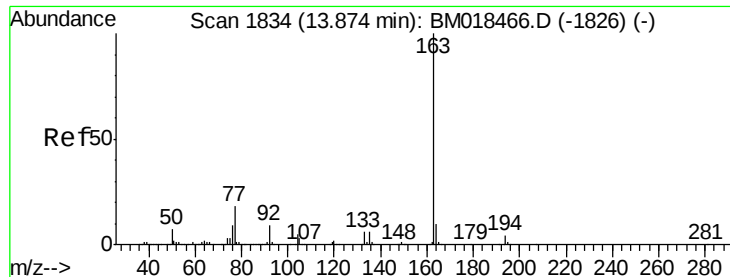
Abundance

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





#50

Dimethylphthalate

Concen: 2.244 ng

RT: 13.85 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

Instrument :

BNA\_M

ClientSampleId :

CPSB-13(10-15)

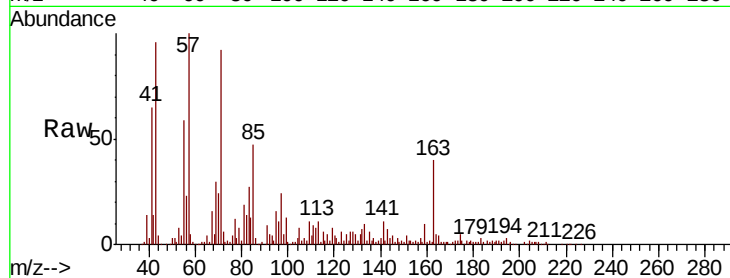
Tot Ion:163 Resp: 134626

Ion Ratio Lower Upper

163 100

194 8.2 3.0 4.6#

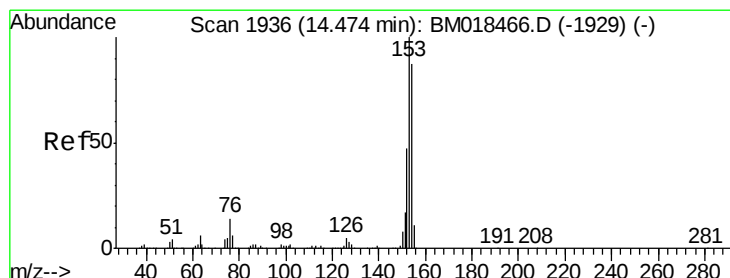
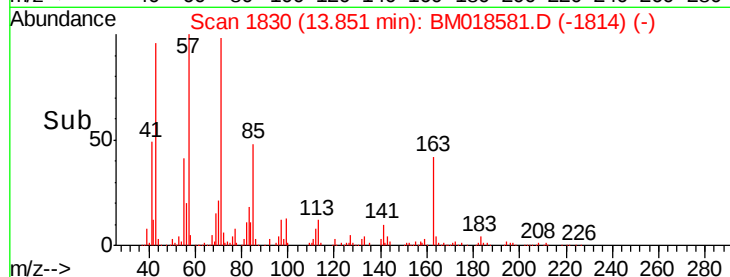
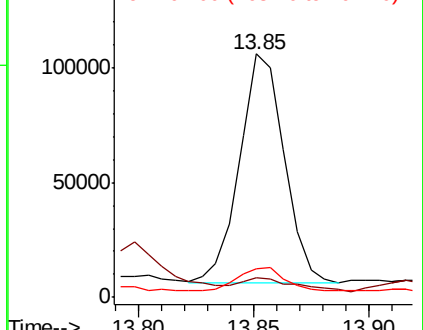
164 11.5 7.8 11.8



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52

Acenaphthene

Concen: 11.999 ng

RT: 14.46 min Scan# 1933

Delta R.T. 0.00 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

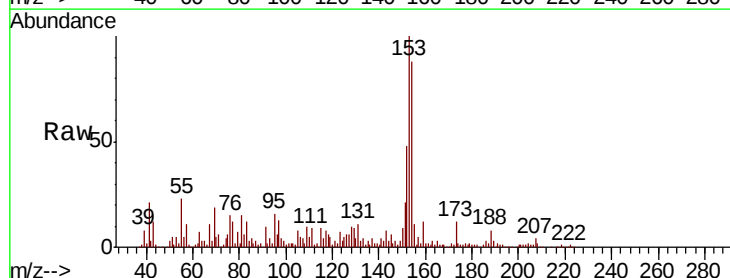
Tgt Ion:154 Resp: 529218

Ion Ratio Lower Upper

154 100

153 114.1 92.3 138.5

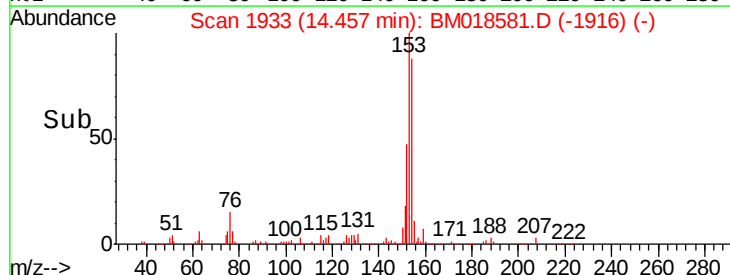
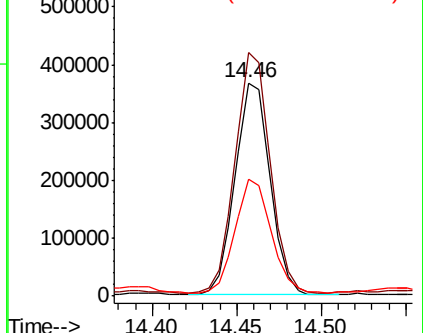
152 54.8 43.8 65.6

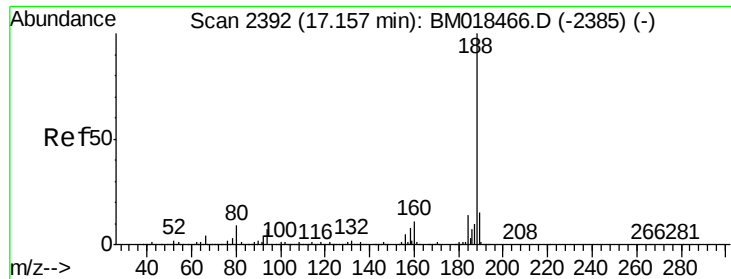


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.15 min Scan# 2391

Delta R.T. 0.01 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

Instrument :

BNA\_M

ClientSampleId :

CPSB-13(10-15)

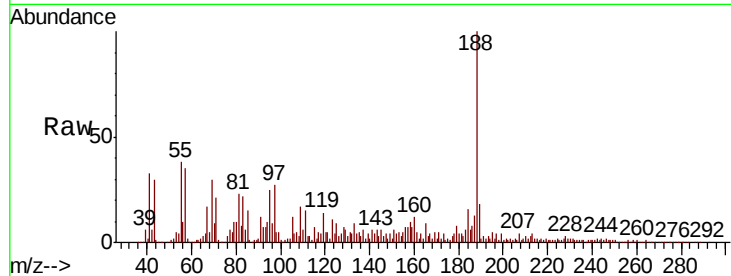
Tot Ion:188 Resp: 1605416

Ion Ratio Lower Upper

188 100

94 10.4 7.1 10.7

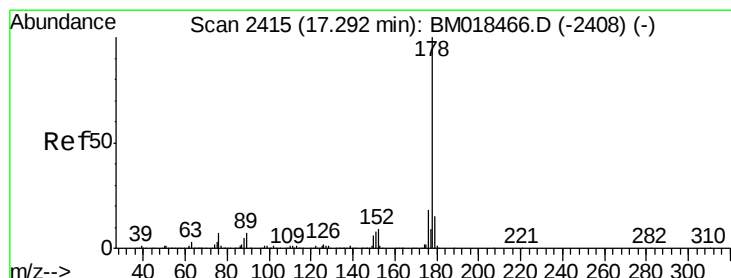
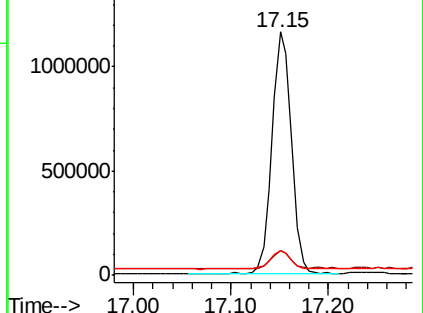
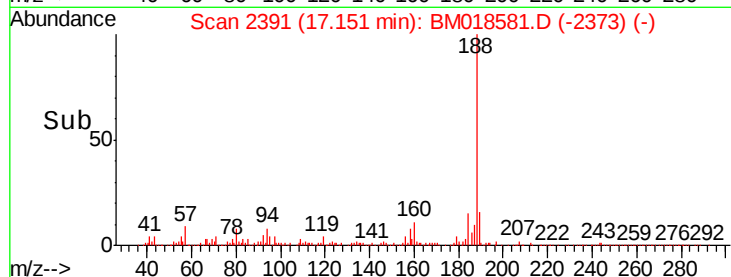
80 10.4 7.6 11.4



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



#72

Anthracene

Concen: 3.817 ng

RT: 17.29 min Scan# 2414

Delta R.T. 0.01 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

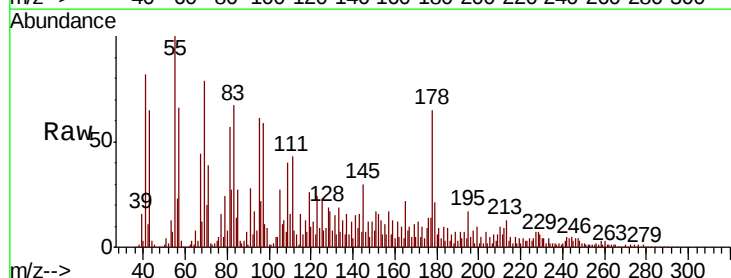
Tgt Ion:178 Resp: 313430

Ion Ratio Lower Upper

178 100

176 21.5 14.7 22.1

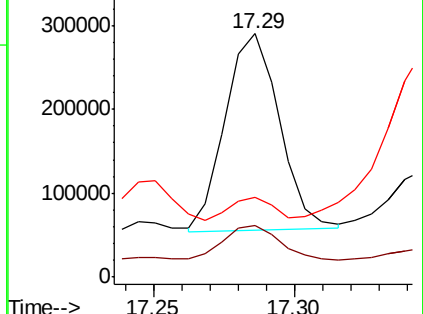
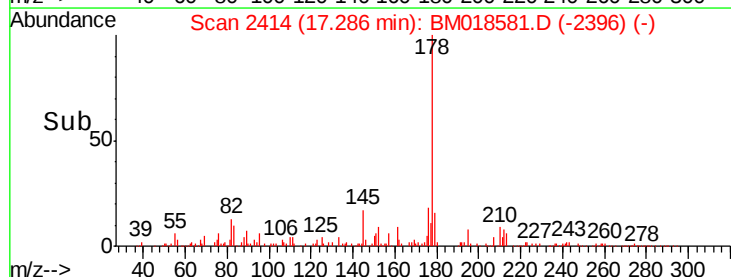
179 32.7 12.2 18.4#

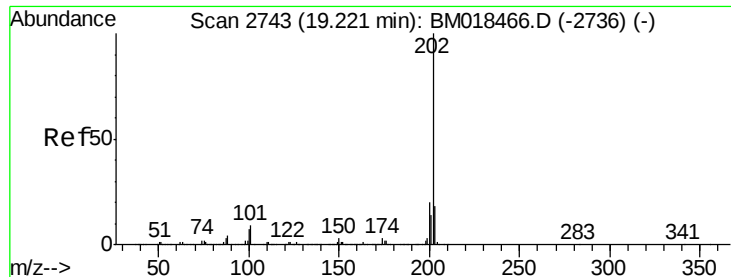


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 14.443 ng

RT: 19.22 min Scan# 2743

Delta R.T. 0.01 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

Instrument :

BNA\_M

ClientSampleId :

CPSB-13(10-15)

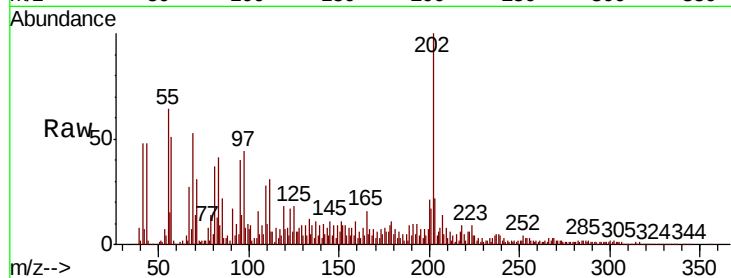
Tot Ion:202 Resp: 1421893

Ion Ratio Lower Upper

202 100

101 9.5 0.0 30.9

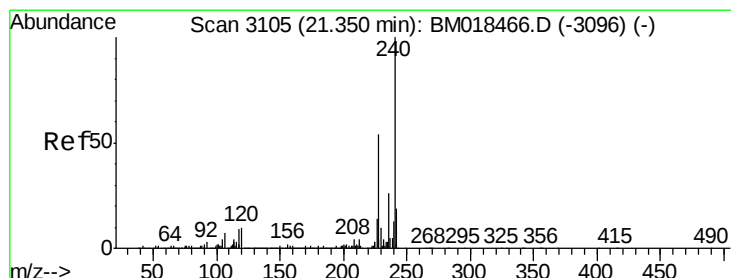
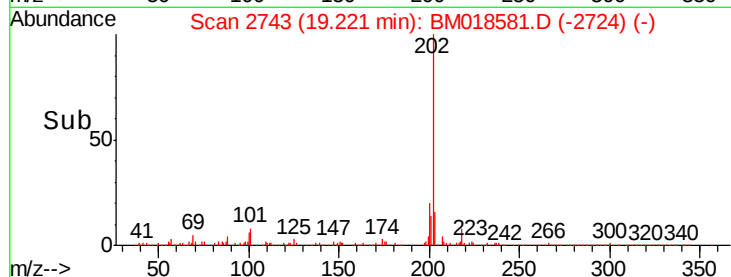
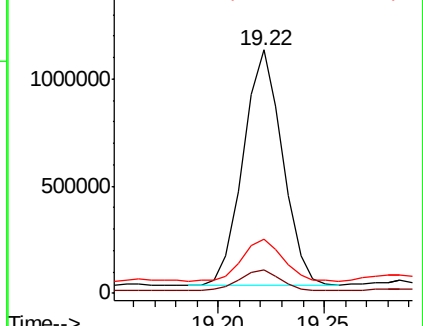
203 22.1 0.0 37.4



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.35 min Scan# 3105

Delta R.T. 0.01 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

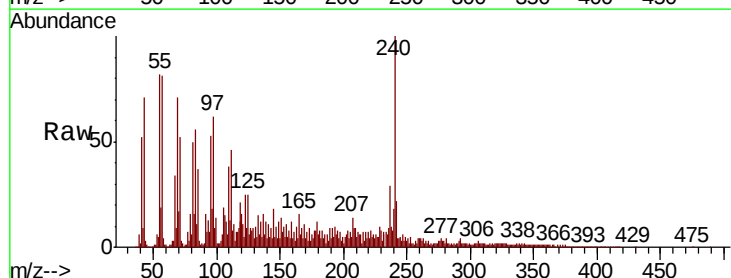
Tgt Ion:240 Resp: 1459674

Ion Ratio Lower Upper

240 100

120 16.4 8.4 12.6#

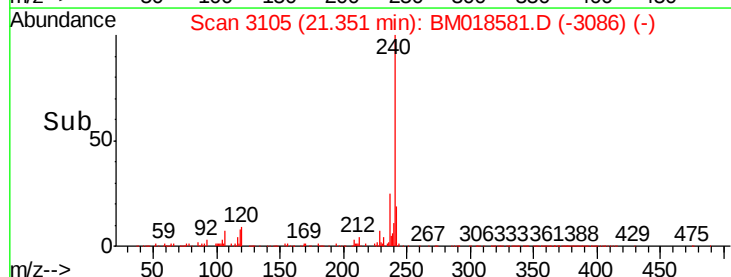
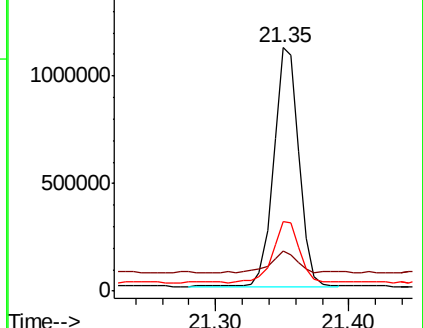
236 28.7 20.7 31.1

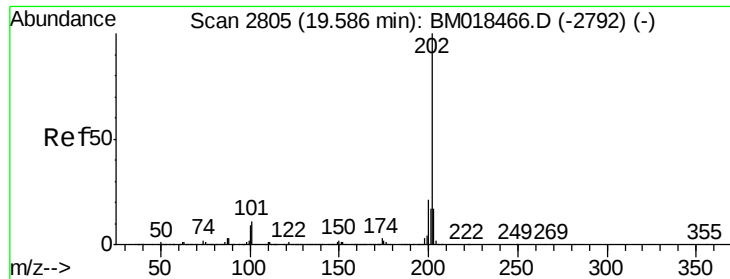


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

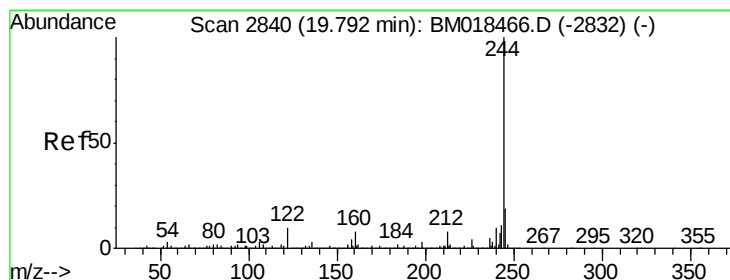
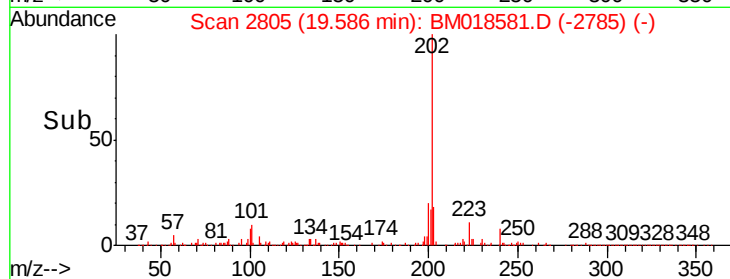
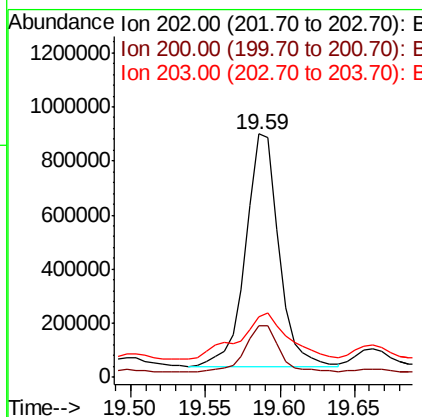
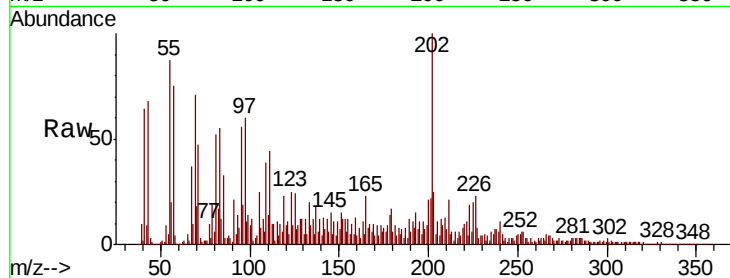




#78  
Pvrene  
Concen: 15.289 ng  
RT: 19.59 min Scan# 2805  
Delta R.T. 0.02 min  
Lab File: BM018581.D  
Acq: 16 Jan 2019 13:49

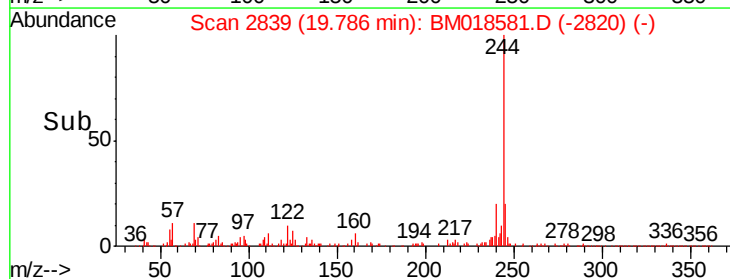
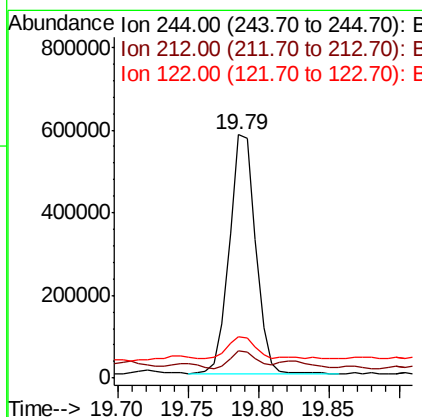
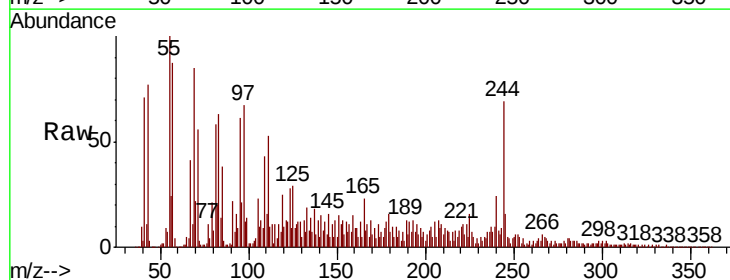
Instrument :  
BNA\_M  
ClientSampleId :  
CPSB-13(10-15)

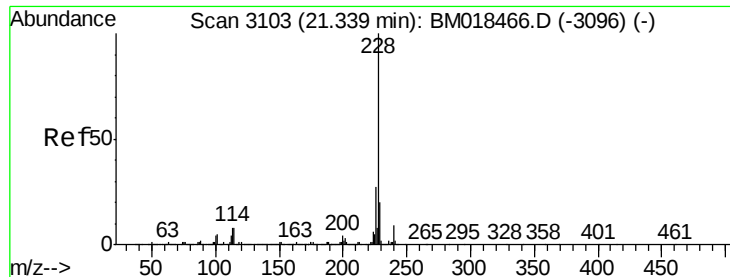
Tot Ion:202 Resp: 1322874  
Ion Ratio Lower Upper  
202 100  
200 21.4 16.6 24.8  
203 24.7 13.8 20.8#



#79  
Terphenyl-d14  
Concen: 10.756 ng  
RT: 19.79 min Scan# 2839  
Delta R.T. 0.01 min  
Lab File: BM018581.D  
Acq: 16 Jan 2019 13:49

Tgt Ion:244 Resp: 744797  
Ion Ratio Lower Upper  
244 100  
212 11.1 5.9 8.9#  
122 17.1 9.0 13.4#





#81

Benzo(a)anthracene

Concen: 3.354 ng

RT: 21.34 min Scan# 3103

Delta R.T. 0.02 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

Instrument :

BNA\_M

ClientSampleId :

CPSB-13(10-15)

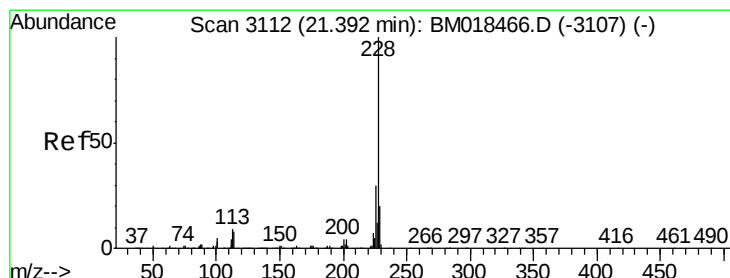
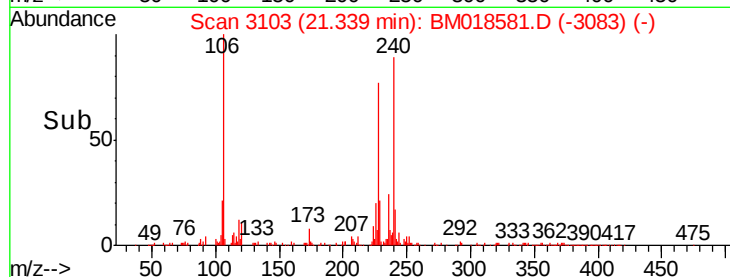
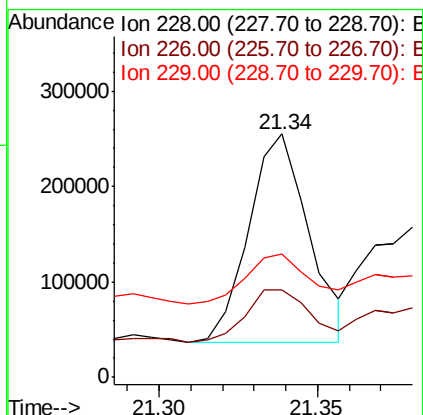
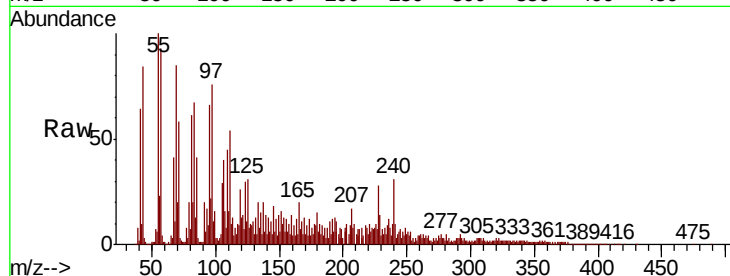
Tot Ion:228 Resp: 288384

Ion Ratio Lower Upper

228 100

226 35.7 21.8 32.6#

229 50.7 15.8 23.8#



#83

Chrysene

Concen: 4.544 ng

RT: 21.39 min Scan# 3112

Delta R.T. 0.02 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

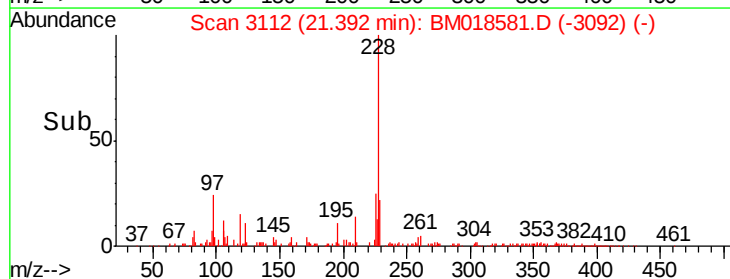
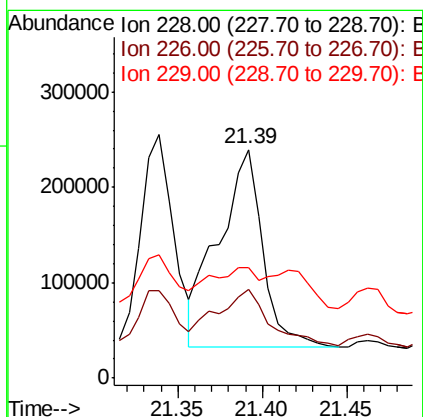
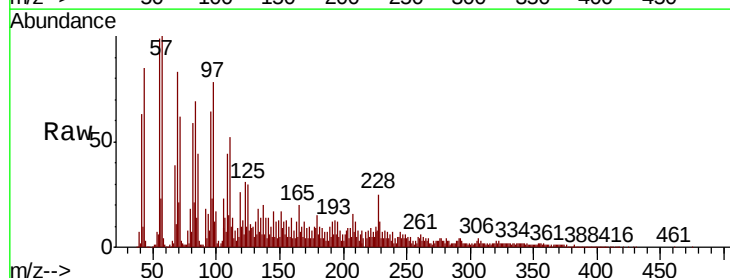
Tgt Ion:228 Resp: 377331

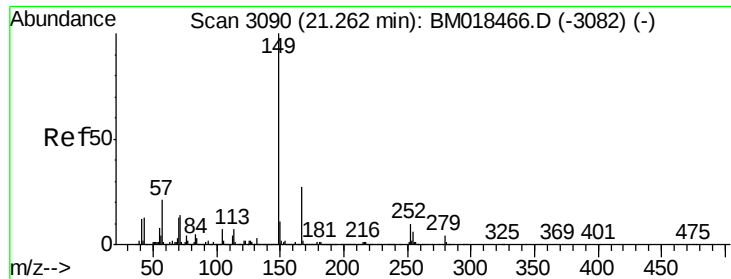
Ion Ratio Lower Upper

228 100

226 38.8 24.2 36.2#

229 48.4 15.6 23.4#





#84

Bis(2-ethylhexyl)phthalate

Concen: 14.449 ng

RT: 21.26 min Scan# 3089

Delta R.T. 0.02 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

Instrument :

BNA\_M

ClientSampleId :

CPSB-13(10-15)

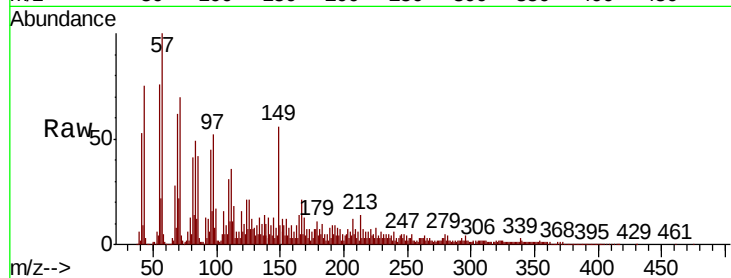
Tot Ion:149 Resp: 770320

Ion Ratio Lower Upper

149 100

167 37.2 21.6 32.4#

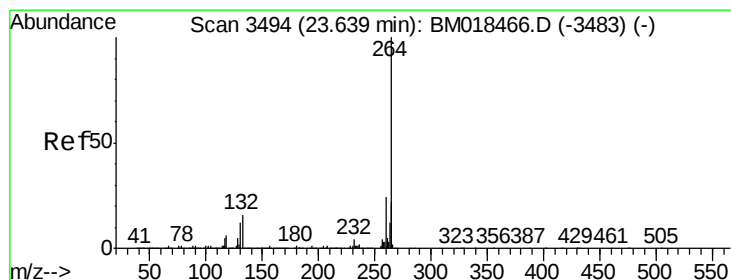
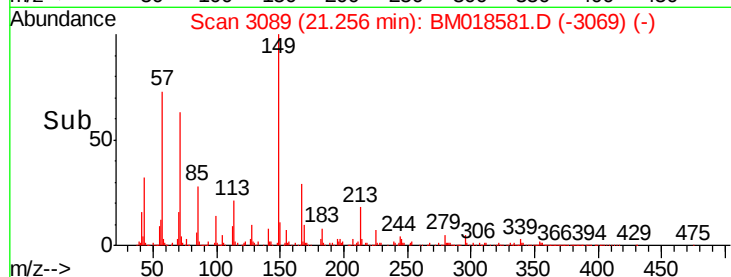
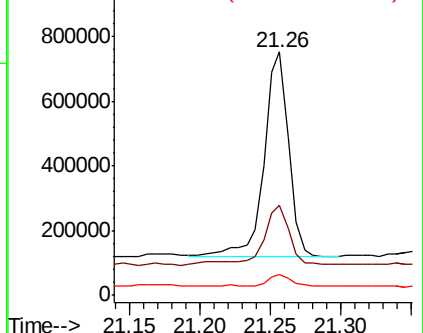
279 8.3 3.3 4.9#



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 23.64 min Scan# 3495

Delta R.T. 0.04 min

Lab File: BM018581.D

Acq: 16 Jan 2019 13:49

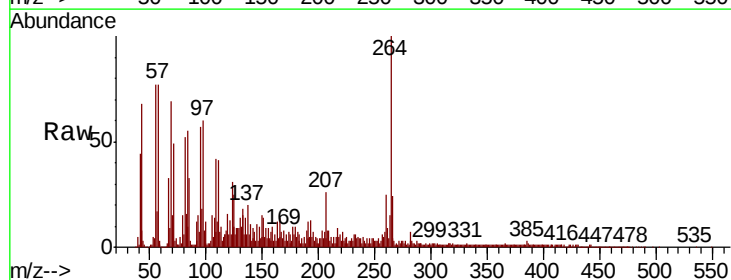
Tgt Ion:264 Resp: 1326721

Ion Ratio Lower Upper

264 100

260 25.5 18.9 28.3

265 23.7 16.8 25.2



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

