

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM010919\  
 Data File : BM018501.D  
 Acq On : 10 Jan 2019 09:21  
 Operator : JU/SJ  
 Sample : K1044-05DL 10X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

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

Quant Time: Jan 10 10:58:22 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 10 05:57:41 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 653730   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.55 | 136  | 2727370  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.41 | 164  | 1524114  | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.16 | 188  | 3086809  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.36 | 240  | 2435432  | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.64 | 264  | 2487810  | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 277804   | 7.85 | ng    | 0.00     |
| 7) Phenol-d6                | 6.93  | 99   | 376787   | 8.38 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.93  | 82   | 237960   | 5.06 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.90 | 330  | 134608   | 6.94 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.02 | 172  | 616242   | 5.28 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.79 | 244  | 688055   | 5.96 | ng    | 0.00     |

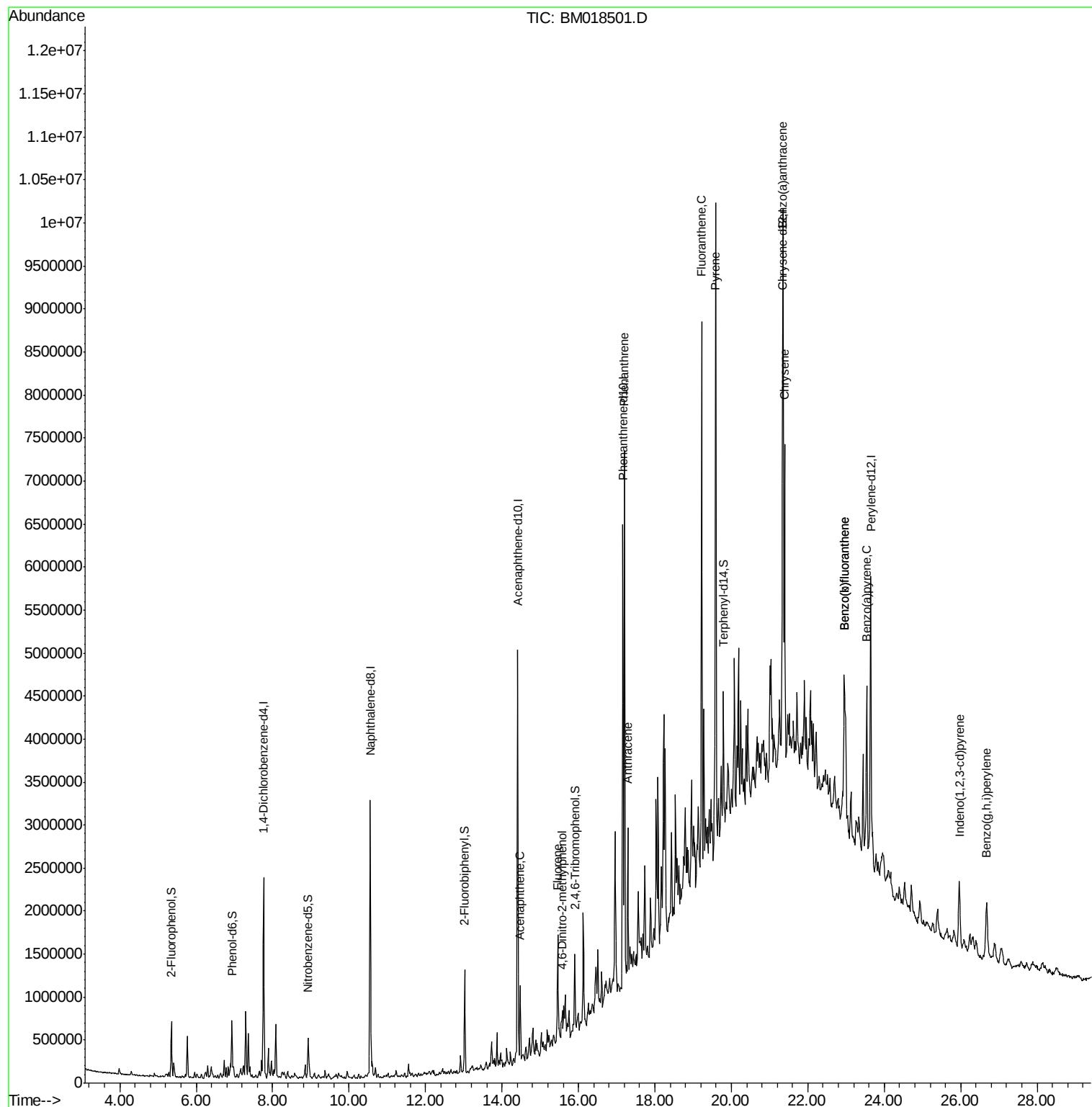
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.90  | 77   | 3872     | Below Cal |       | # 9    |
| 52) Acenaphthene               | 14.47 | 154  | 305788   | 3.323     | ng    | 98     |
| 58) Fluorene                   | 15.46 | 166  | 506536   | 4.472     | ng    | 97     |
| 65) 4,6-Dinitro-2-methylphenol | 15.57 | 198  | 1504     | 5.461     | ng    | # 1    |
| 71) Phenanthrene               | 17.20 | 178  | 3629493  | 22.106    | ng    | 99     |
| 72) Anthracene                 | 17.29 | 178  | 1081926  | 6.853     | ng    | 99     |
| 75) Fluoranthene               | 19.22 | 202  | 3677282  | 19.426    | ng    | 96     |
| 78) Pyrene                     | 19.59 | 202  | 4810600  | 33.324    | ng    | 99     |
| 81) Benzo(a)anthracene         | 21.34 | 228  | 1973639  | 13.756    | ng    | 98     |
| 83) Chrysene                   | 21.39 | 228  | 1859839  | 13.424    | ng    | 98     |
| 86) Indeno(1,2,3-cd)pyrene     | 25.96 | 276  | 735469   | 4.604     | ng    | # 93   |
| 88) Benzo(b)fluoranthene       | 22.96 | 252  | 2129906  | 15.080    | ng    | 96     |
| 89) Benzo(k)fluoranthene       | 22.96 | 252  | 2122688  | 14.913    | ng    | 95     |
| 90) Benzo(a)pyrene             | 23.54 | 252  | 1377386  | 10.187    | ng    | 99     |
| 92) Benzo(a,h,i)perylene       | 26.67 | 276  | 734045   | 5.506     | ng    | 97     |

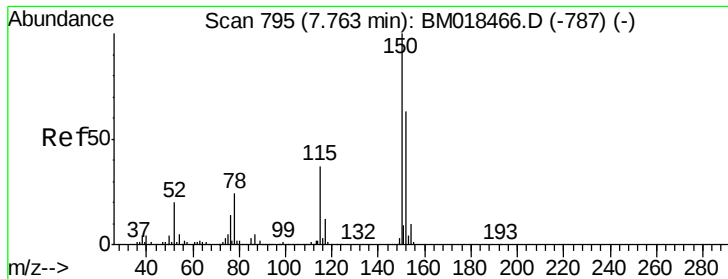
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
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CPSB-10(10-15)DL

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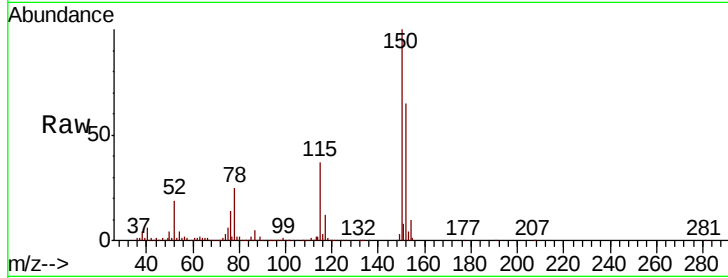


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.76 min Scan# 795  
Delta R.T. -0.00 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

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

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.8 | 126.9 | 190.3 |
| 115     | 56.6  | 45.5  | 68.3  |

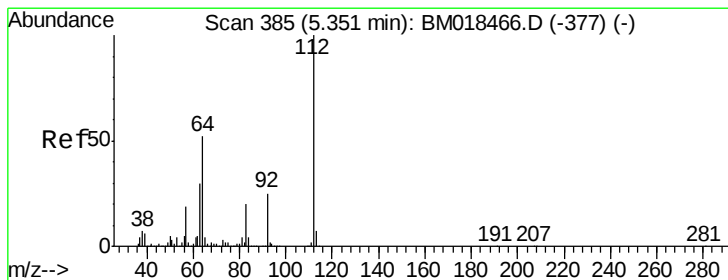
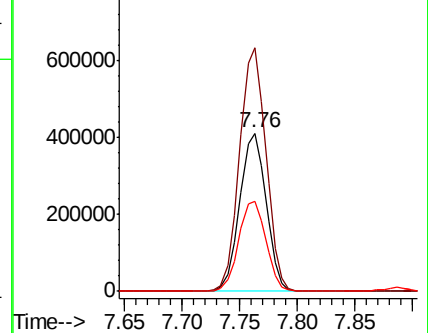
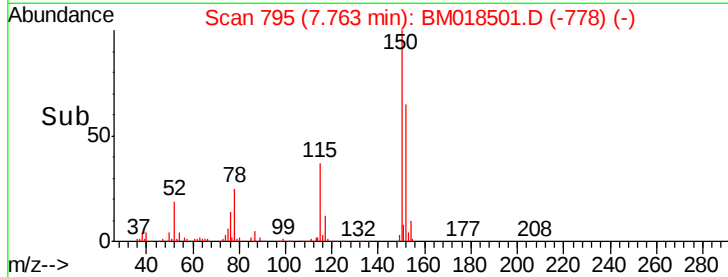


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

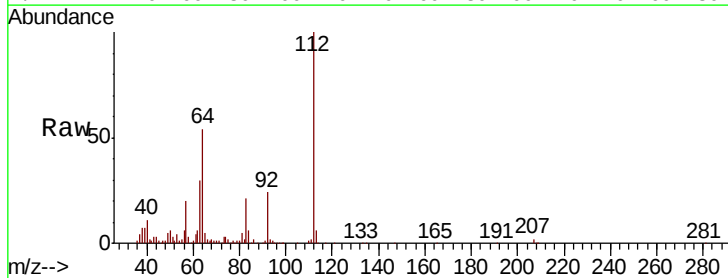
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 7.847 ng  
RT: 5.35 min Scan# 385  
Delta R.T. -0.00 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.0  | 46.5  | 69.7  |
| 63      | 29.5  | 25.2  | 37.8  |

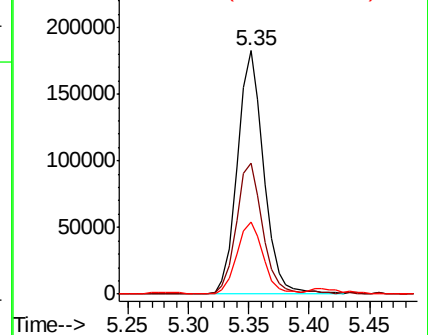
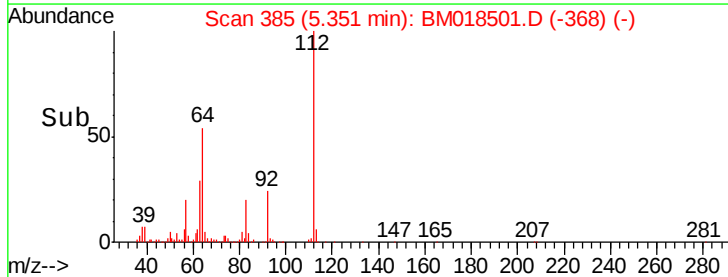


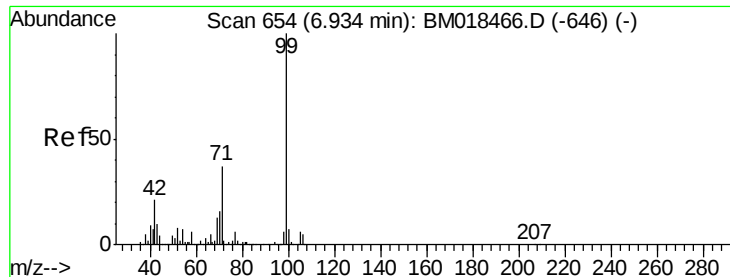
Abundance

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: 8.379 ng

RT: 6.93 min Scan# 654

Delta R.T. -0.00 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Instrument :

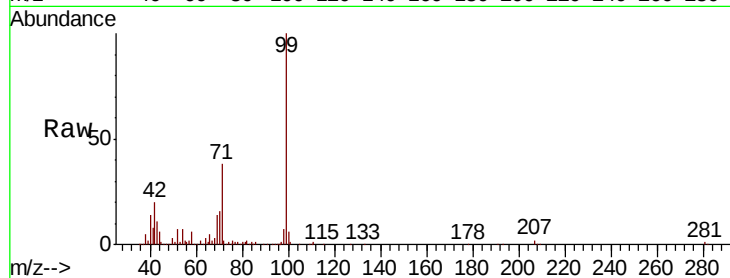
BNA\_M

ClientSampleId :

CPSB-10(10-15)DL

Tot Ion: 99 Resp: 376787

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.7  | 17.3  | 25.9  |
| 71  | 37.6  | 28.0  | 42.0  |

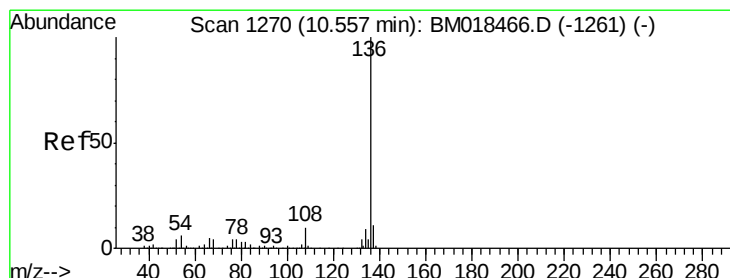
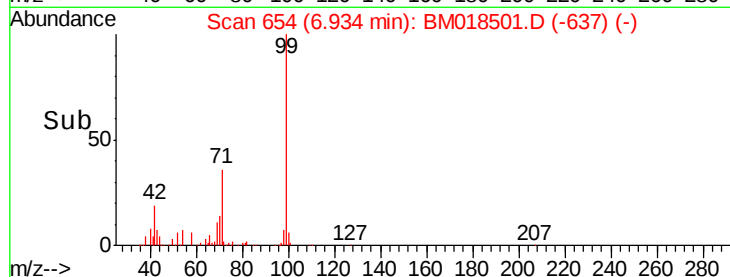
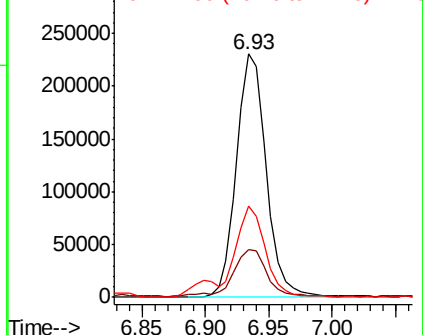


Abundance

Ion 99.00 (98.70 to 99.70): BM018501.D (-637) (-)

Ion 42.00 (41.70 to 42.70): BM018501.D (-637) (-)

Ion 71.00 (70.70 to 71.70): BM018501.D (-637) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.55 min Scan# 1269

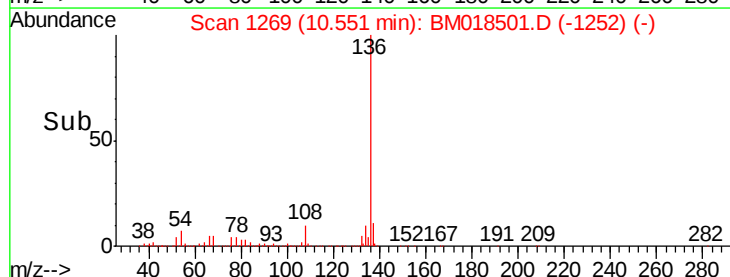
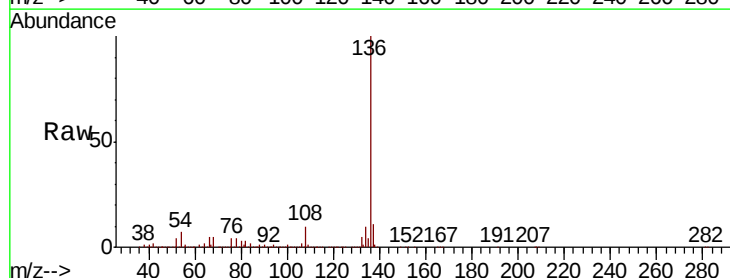
Delta R.T. -0.00 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Tgt Ion: 136 Resp: 2727370

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.5   | 12.7  |
| 54  | 6.7   | 6.0   | 9.0   |
| 68  | 4.6   | 4.5   | 6.7   |



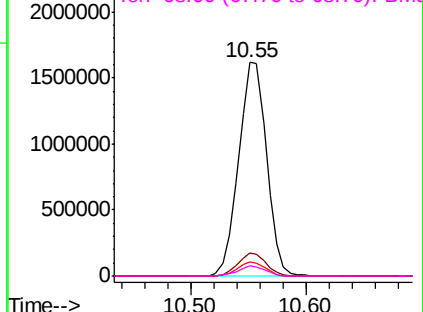
Abundance

Ion 136.00 (135.70 to 136.70): BM018501.D (-1252) (-)

Ion 137.00 (136.70 to 137.70): BM018501.D (-1252) (-)

Ion 54.00 (53.70 to 54.70): BM018501.D (-1252) (-)

Ion 68.00 (67.70 to 68.70): BM018501.D (-1252) (-)

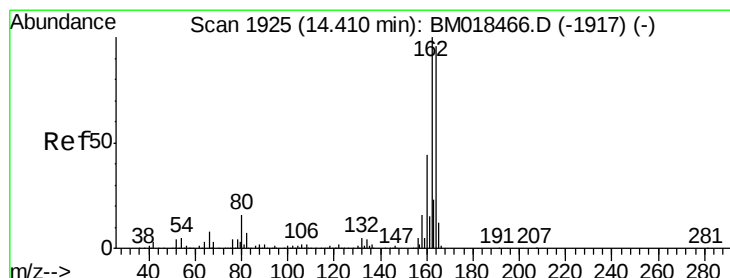
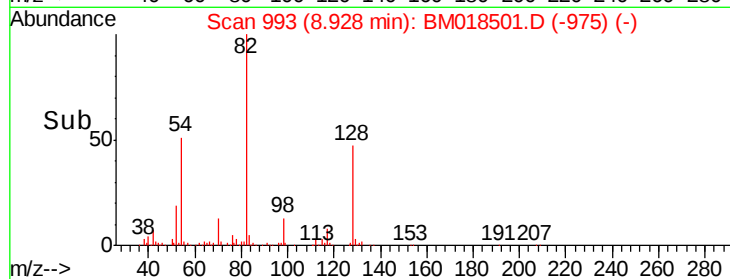
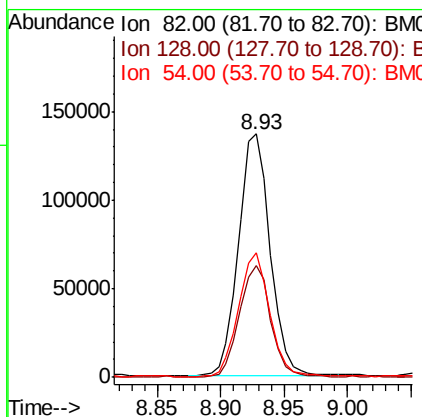
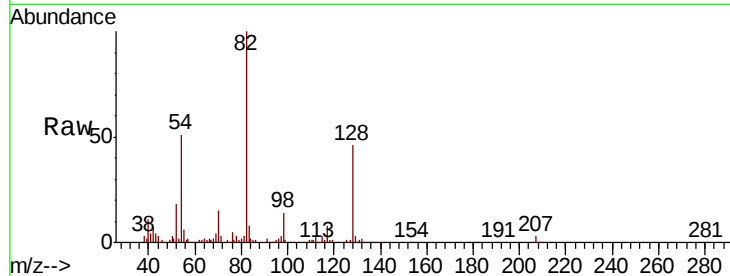




#23  
 Nitrobenzene-d5  
 Concen: 5.058 ng  
 RT: 8.93 min Scan# 993  
 Delta R.T. 0.01 min  
 Lab File: BM018501.D  
 Acq: 10 Jan 2019 09:21

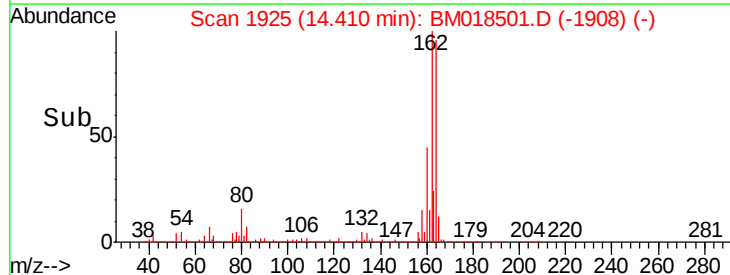
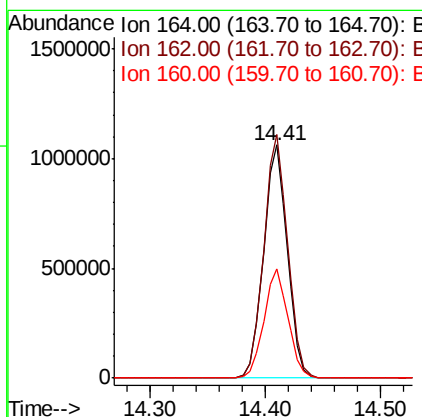
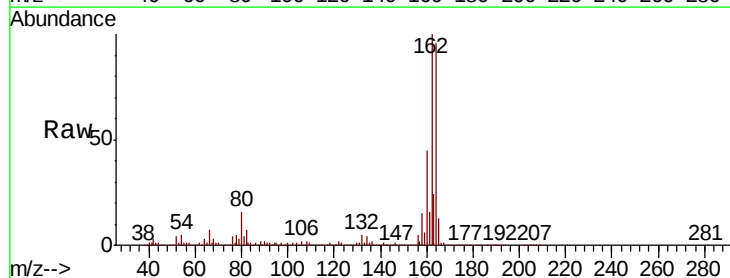
Instrument :  
 BNA\_M  
 ClientSampleId :  
 CPSB-10(10-15)DL

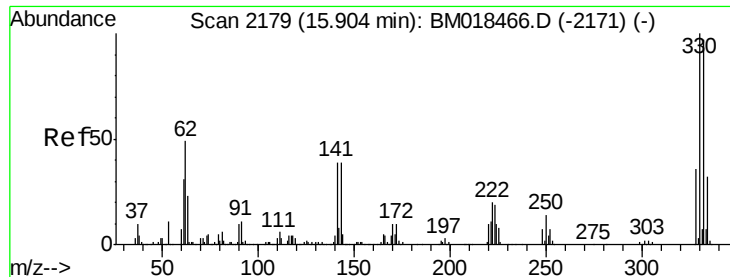
| Tot Ion   | 82    | Resp  | 237960 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.0  | 36.3  | 54.5   |
| 54        | 51.2  | 41.7  | 62.5   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.41 min Scan# 1925  
 Delta R.T. -0.00 min  
 Lab File: BM018501.D  
 Acq: 10 Jan 2019 09:21

| Tgt Ion   | 164   | Resp  | 1524114 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 164       | 100   |       |         |
| 162       | 104.6 | 83.0  | 124.4   |
| 160       | 46.8  | 37.1  | 55.7    |

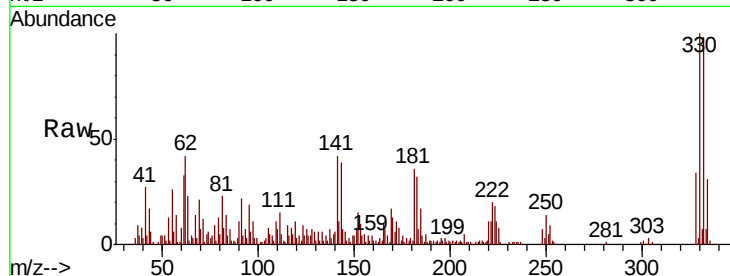




#42  
 2,4,6-Tribromophenol  
 Concen: 6.936 ng  
 RT: 15.90 min Scan# 2179  
 Delta R.T. -0.00 min  
 Lab File: BM018501.D  
 Acq: 10 Jan 2019 09:21

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

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.6  | 116.4 |
| 141     | 38.6  | 31.7  | 47.5  |

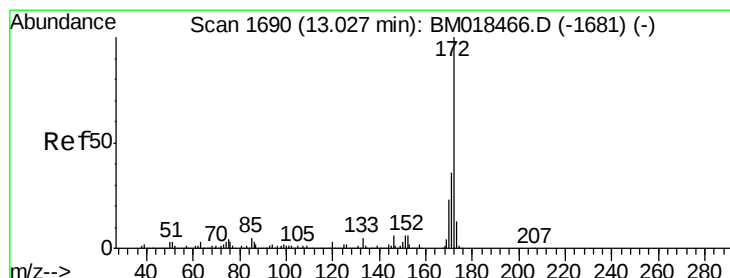
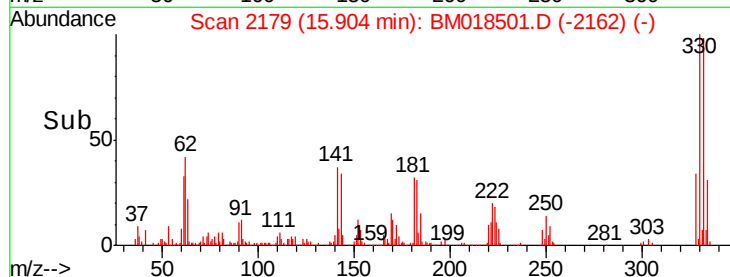
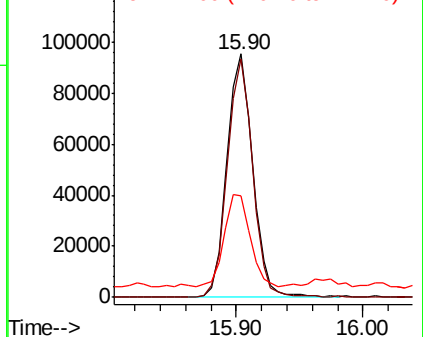


Abundance

Ion 329.80 (329.50 to 330.50): E

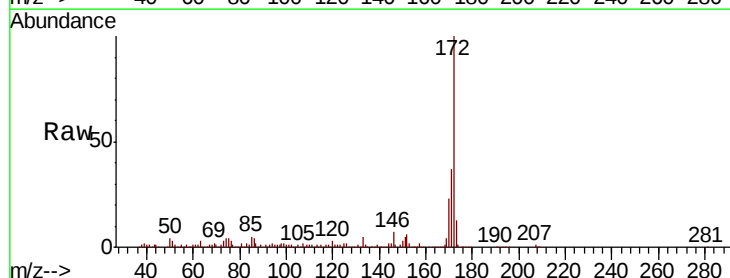
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 5.276 ng  
 RT: 13.02 min Scan# 1689  
 Delta R.T. -0.00 min  
 Lab File: BM018501.D  
 Acq: 10 Jan 2019 09:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 28.2  | 42.4  |
| 170     | 23.0  | 18.9  | 28.3  |

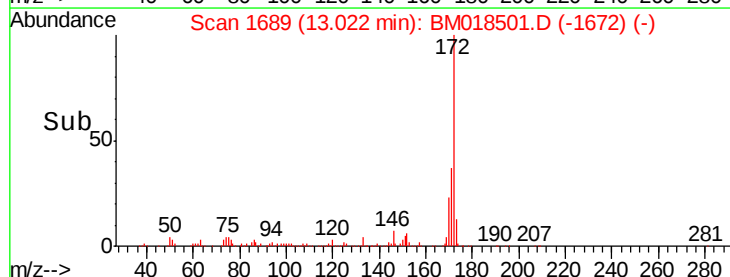
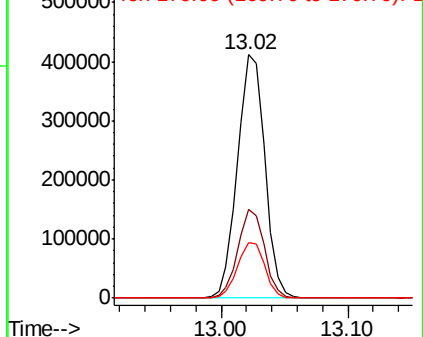


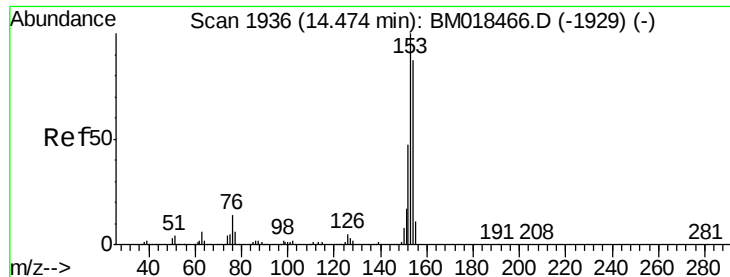
Abundance

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





#52

Acenaphthene

Concen: 3.323 ng

RT: 14.47 min Scan# 1935

Delta R.T. -0.00 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Instrument :

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ClientSampleId :

CPSB-10(10-15)DL

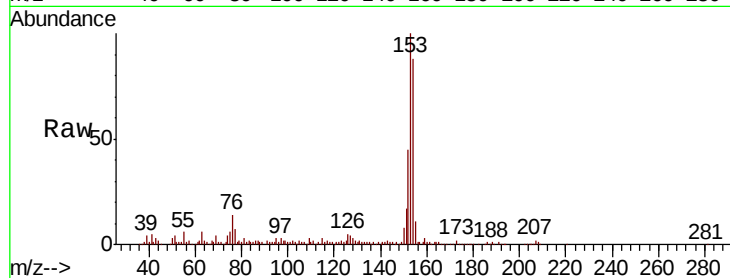
Tot Ion:154 Resp: 305788

Ion Ratio Lower Upper

154 100

153 114.3 92.3 138.5

152 51.7 43.8 65.6

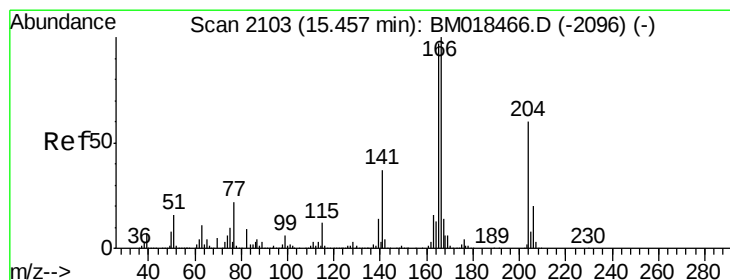
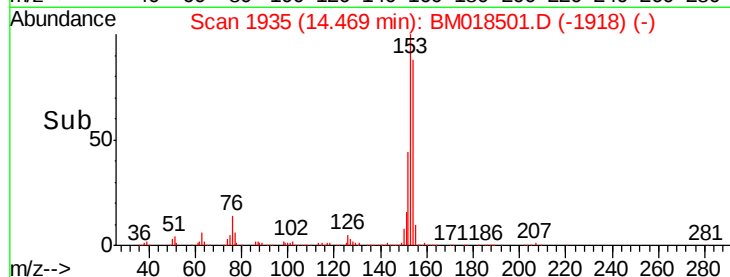
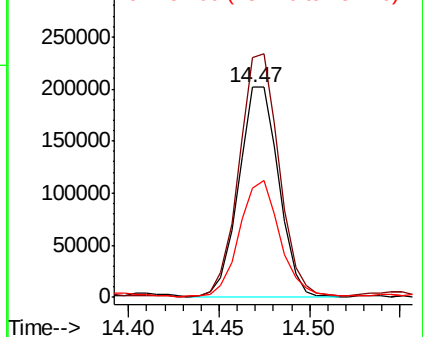


Abundance

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



#58

Fluorene

Concen: 4.472 ng

RT: 15.46 min Scan# 2103

Delta R.T. -0.00 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

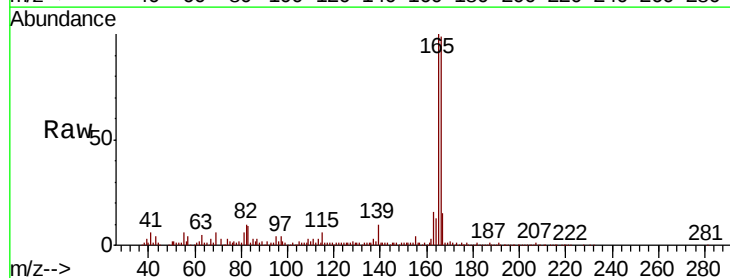
Tgt Ion:166 Resp: 506536

Ion Ratio Lower Upper

166 100

165 100.7 78.3 117.5

167 15.6 10.9 16.3

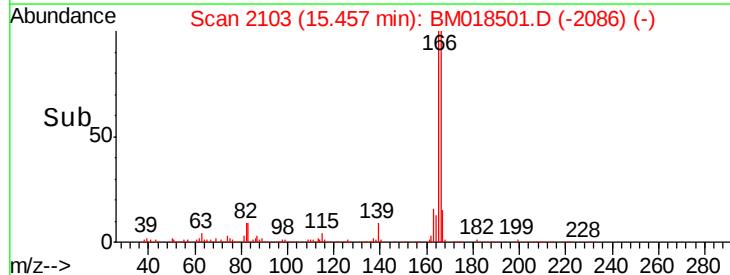
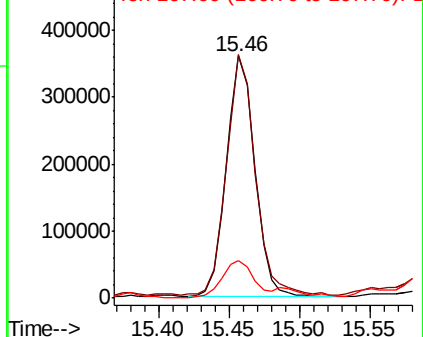


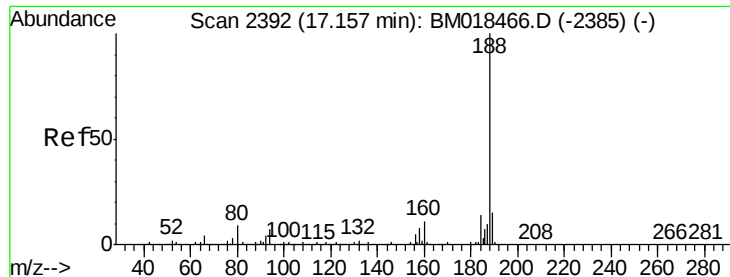
Abundance

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.16 min Scan# 2393

Delta R.T. 0.01 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Instrument :

BNA\_M

ClientSampleId :

CPSB-10(10-15)DL

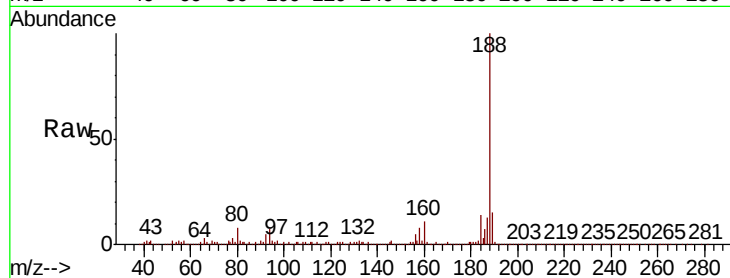
Tot Ion:188 Resp: 3086809

Ion Ratio Lower Upper

188 100

94 7.2 7.1 10.7

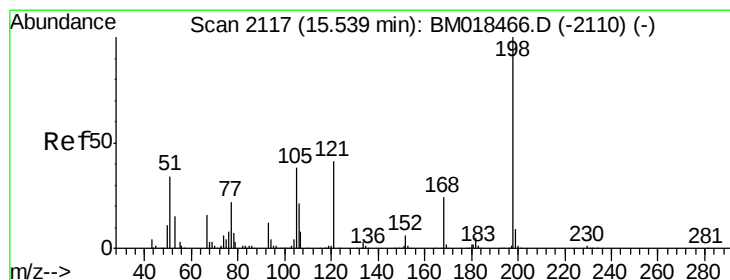
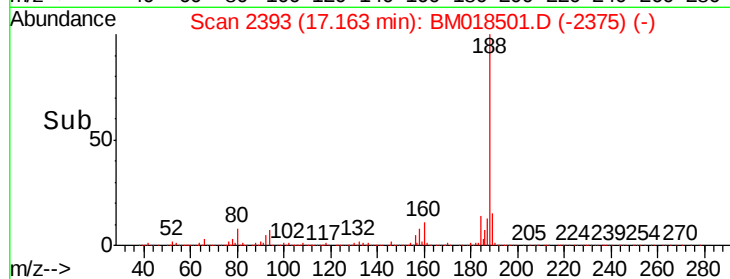
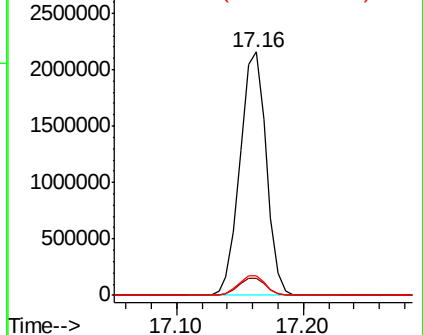
80 7.9 7.6 11.4



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



#65

4,6-Dinitro-2-methylphenol

Concen: 5.461 ng

RT: 15.57 min Scan# 2122

Delta R.T. 0.02 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

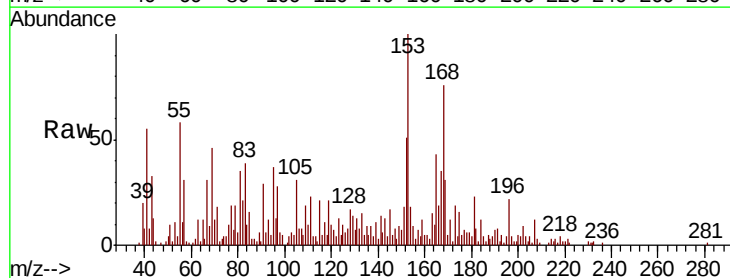
Tgt Ion:198 Resp: 1504

Ion Ratio Lower Upper

198 100

51 480.2 29.6 69.6#

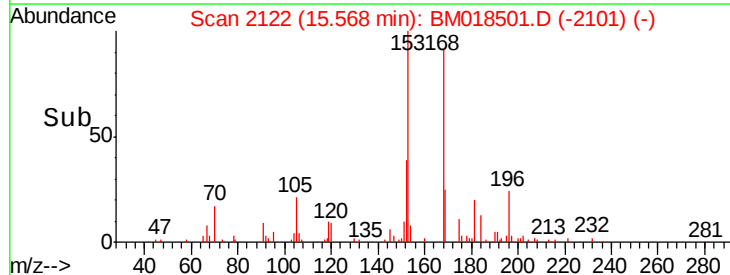
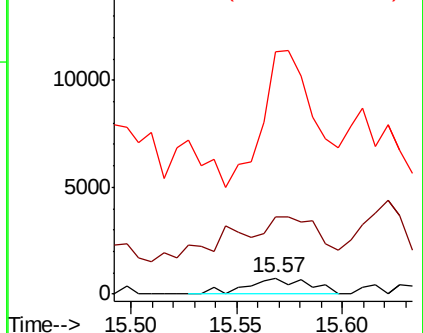
105 1498.9 25.5 65.5#

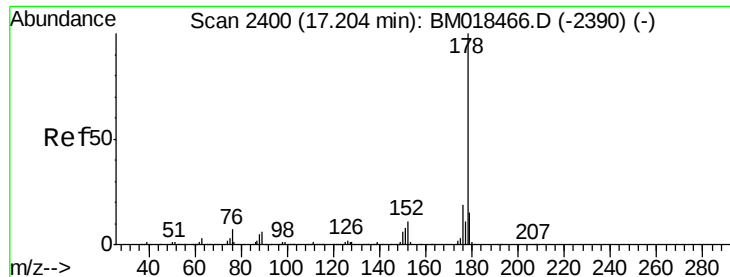


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BM0

Ion 105.00 (104.70 to 105.70): E

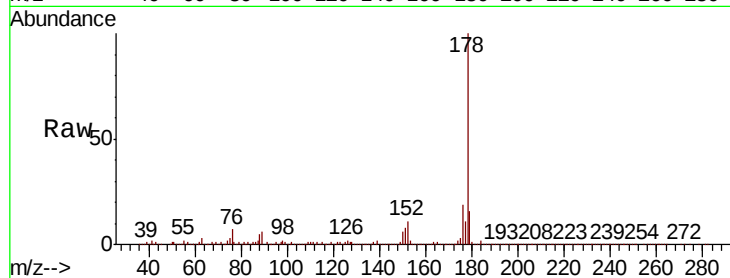




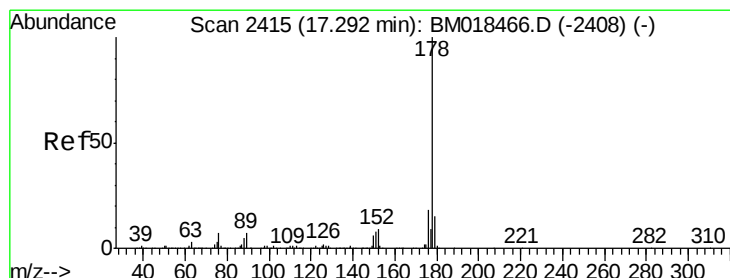
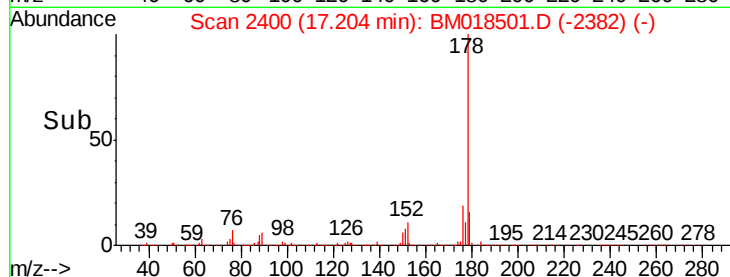
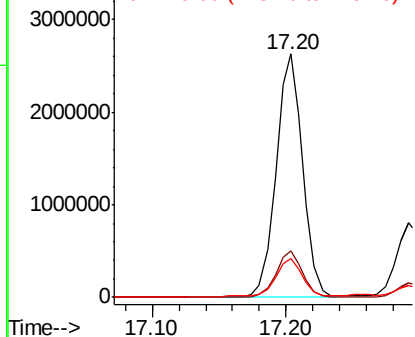
#71  
Phenanthrene  
Concen: 22.106 ng  
RT: 17.20 min Scan# 2400  
Delta R.T. 0.01 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

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

Tot Ion:178 Resp: 3629493  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.8 12.2 18.4

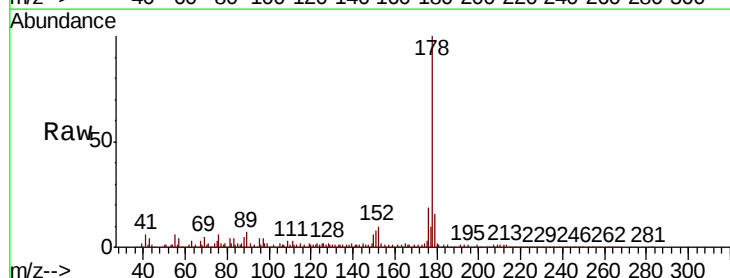


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

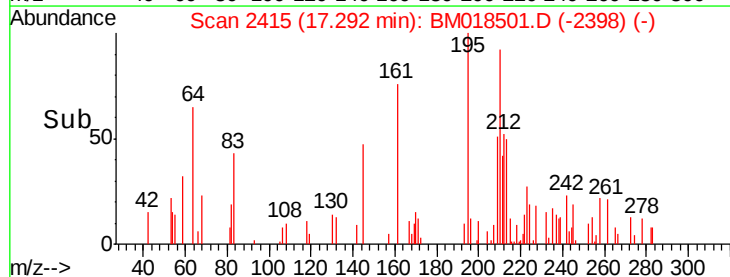
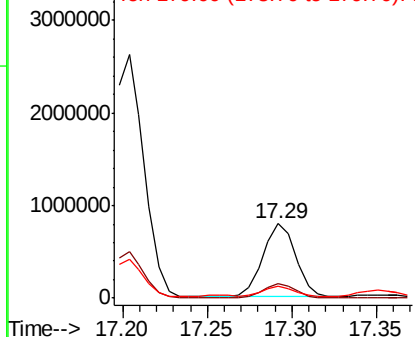


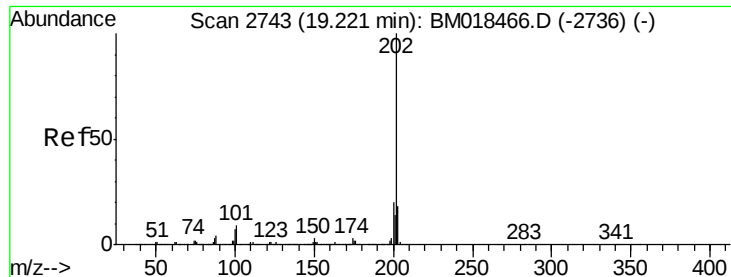
#72  
Anthracene  
Concen: 6.853 ng  
RT: 17.29 min Scan# 2415  
Delta R.T. -0.00 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

Tgt Ion:178 Resp: 1081926  
Ion Ratio Lower Upper  
178 100  
176 18.7 14.7 22.1  
179 15.9 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: 19.426 ng

RT: 19.22 min Scan# 2743

Delta R.T. -0.00 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Instrument :

BNA\_M

ClientSampleId :

CPSB-10(10-15)DL

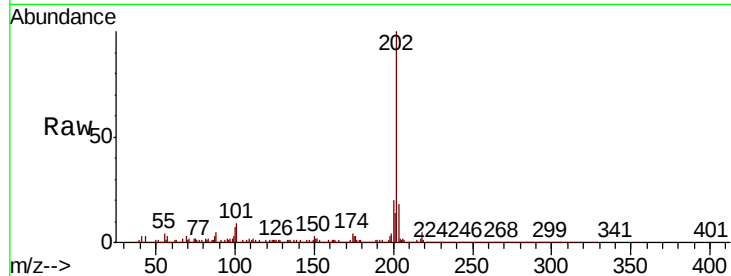
Tot Ion:202 Resp: 3677282

Ion Ratio Lower Upper

202 100

101 8.9 0.0 30.9

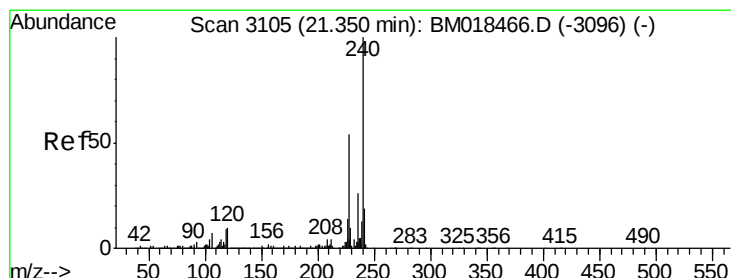
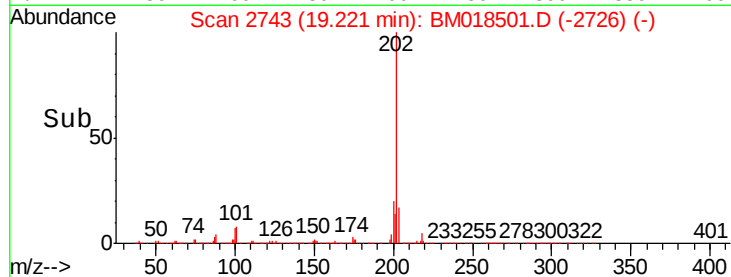
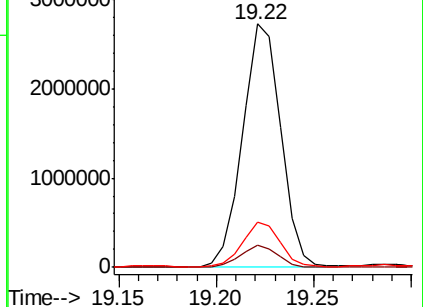
203 18.5 0.0 37.4



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: 21.36 min Scan# 3106

Delta R.T. 0.01 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

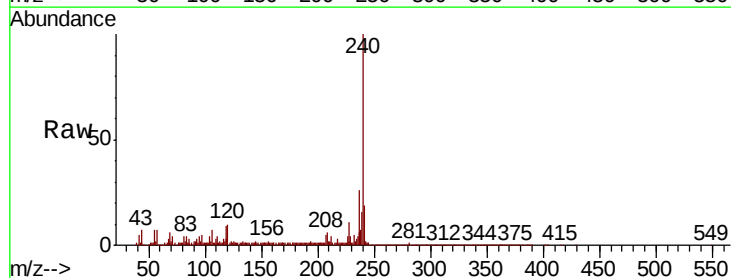
Tgt Ion:240 Resp: 2435432

Ion Ratio Lower Upper

240 100

120 9.6 8.4 12.6

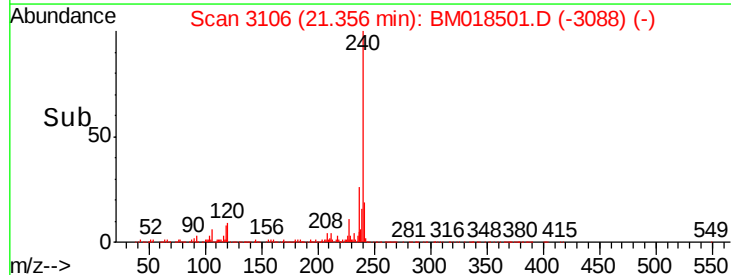
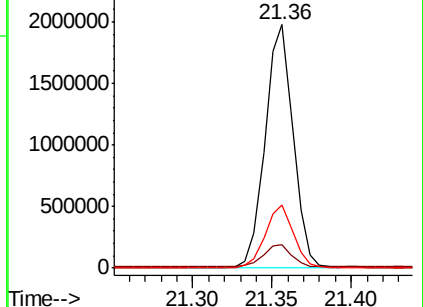
236 26.1 20.7 31.1

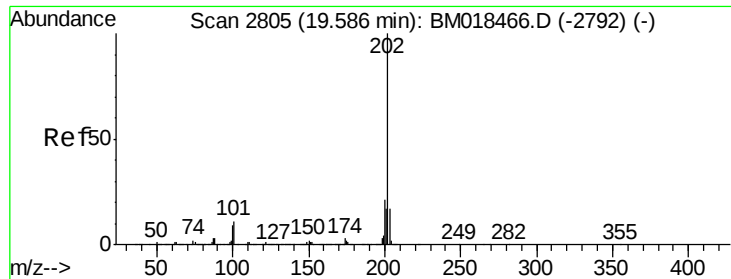


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 33.324 ng

RT: 19.59 min Scan# 2805

Delta R.T. -0.00 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Instrument :

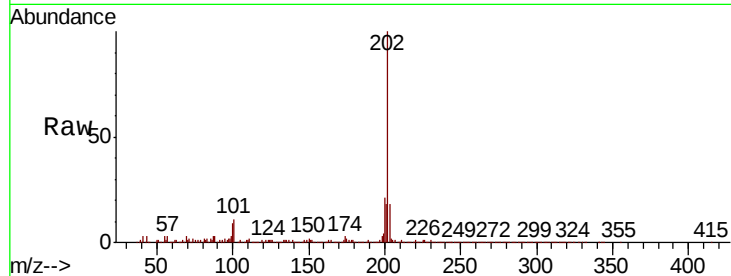
BNA\_M

ClientSampleId :

CPSB-10(10-15)DL

Tot Ion:202 Resp: 4810600

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 20.5  | 16.6  | 24.8  |
| 203 | 17.9  | 13.8  | 20.8  |

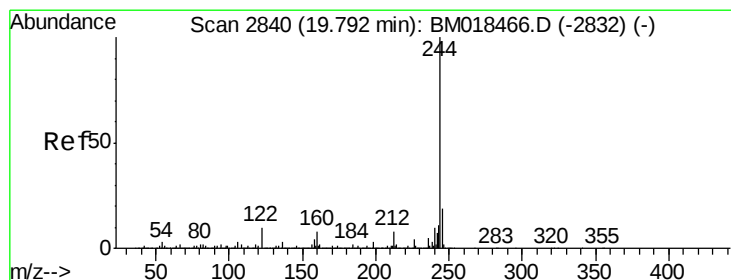
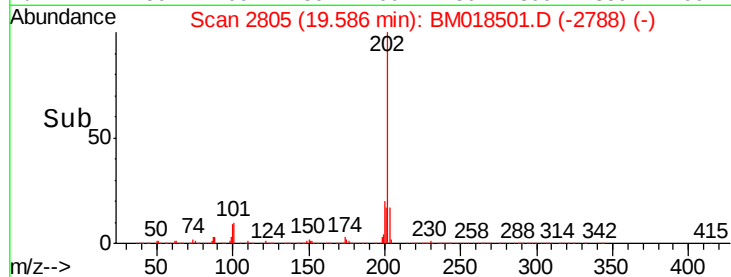
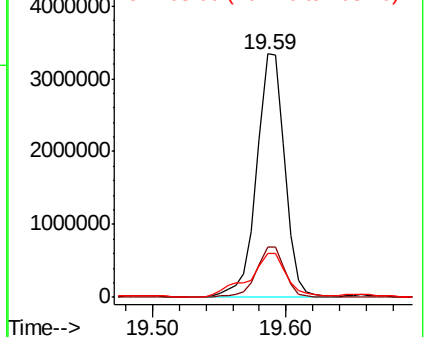


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 5.956 ng

RT: 19.79 min Scan# 2840

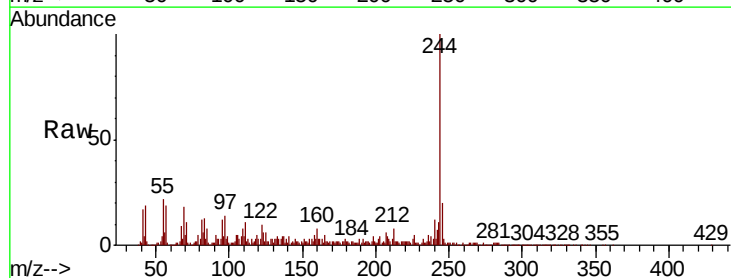
Delta R.T. 0.01 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Tgt Ion:244 Resp: 688055

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.9   | 5.9   | 8.9   |
| 122 | 10.2  | 9.0   | 13.4  |

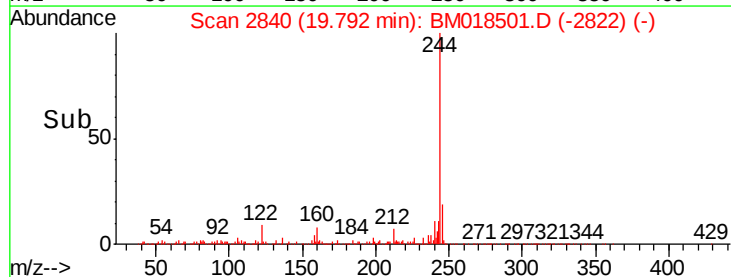
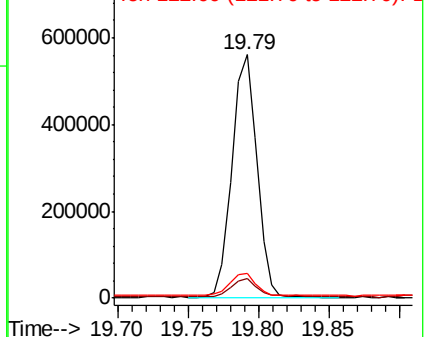


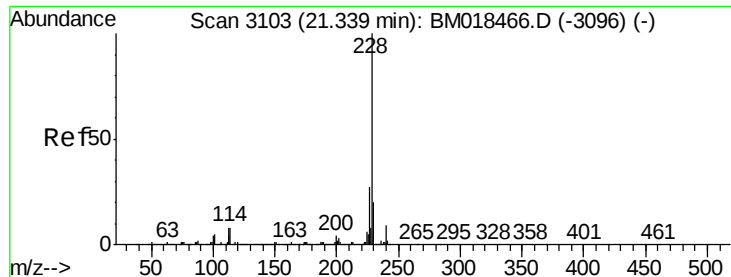
Abundance

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





#81

Benzo(a)anthracene

Concen: 13.756 ng

RT: 21.34 min Scan# 3103

Delta R.T. 0.01 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Instrument :

BNA\_M

ClientSampleId :

CPSB-10(10-15)DL

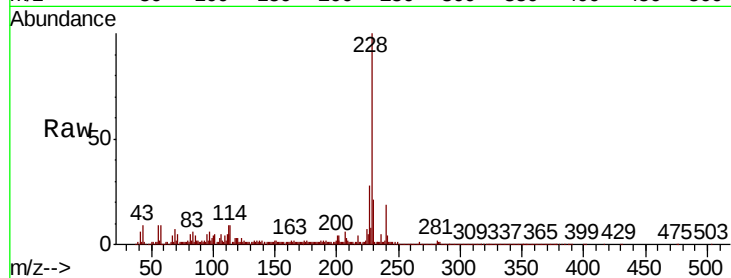
Tot Ion:228 Resp: 1973639

Ion Ratio Lower Upper

228 100

226 27.9 21.8 32.6

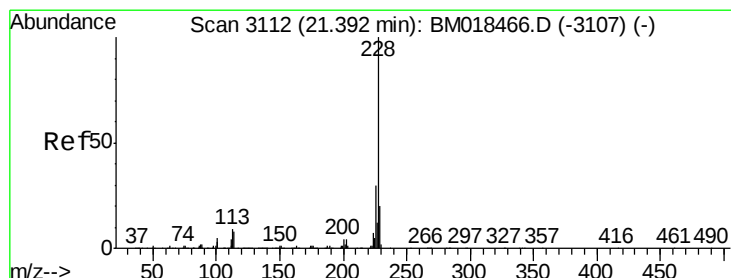
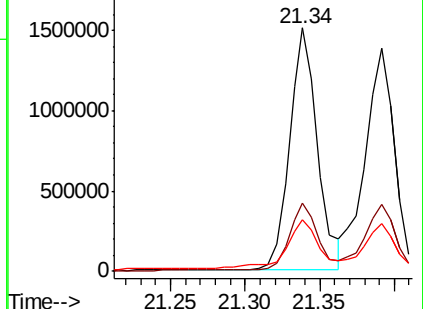
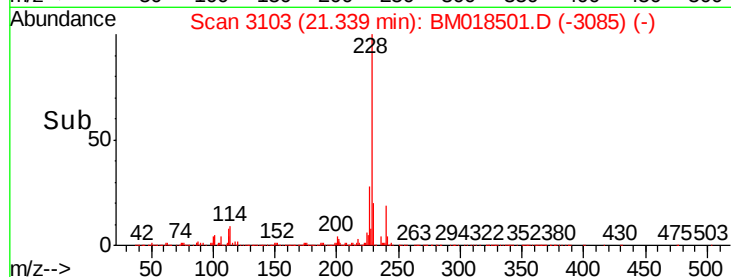
229 21.1 15.8 23.8



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



#83

Chrysene

Concen: 13.424 ng

RT: 21.39 min Scan# 3112

Delta R.T. 0.01 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

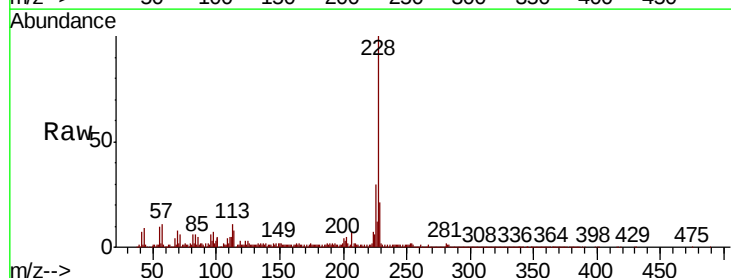
Tgt Ion:228 Resp: 1859839

Ion Ratio Lower Upper

228 100

226 30.0 24.2 36.2

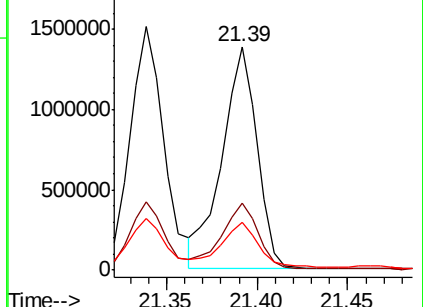
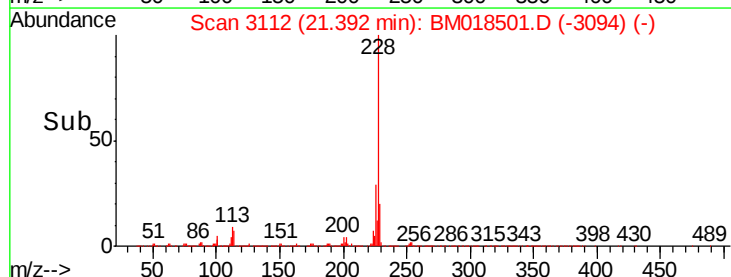
229 21.3 15.6 23.4

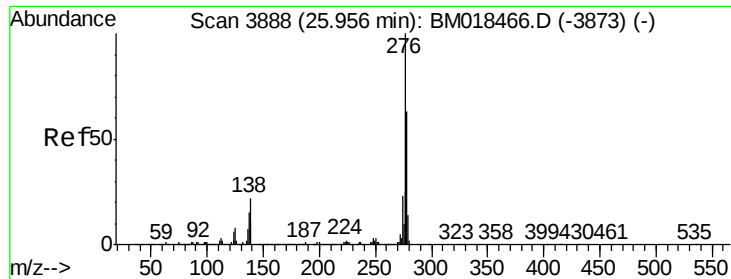


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

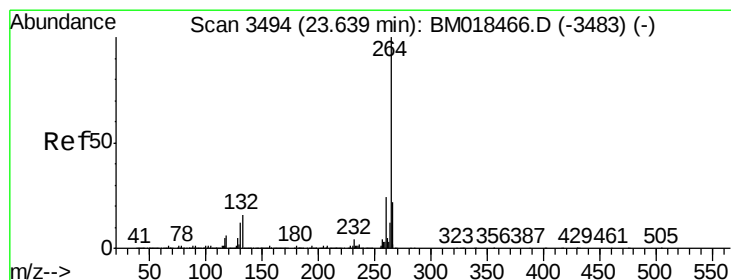
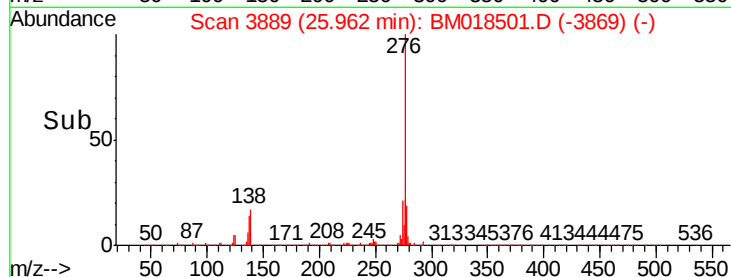
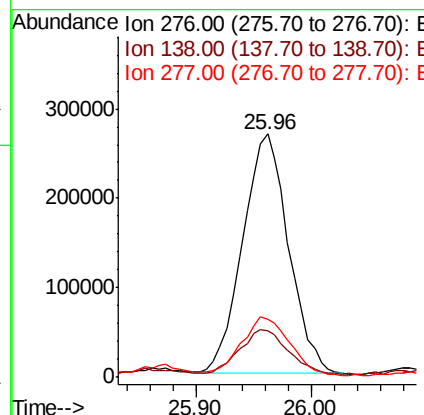
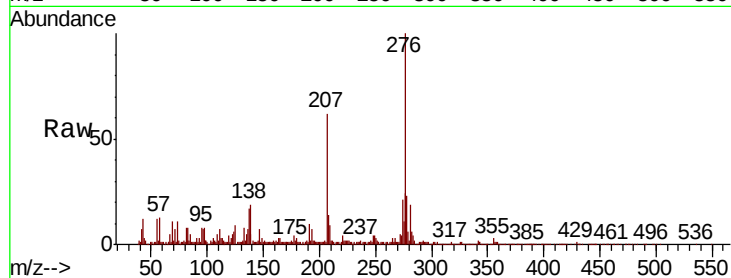




#86  
Indeno(1,2,3-cd)pyrene  
Concen: 4.604 ng  
RT: 25.96 min Scan# 3889  
Delta R.T. 0.02 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

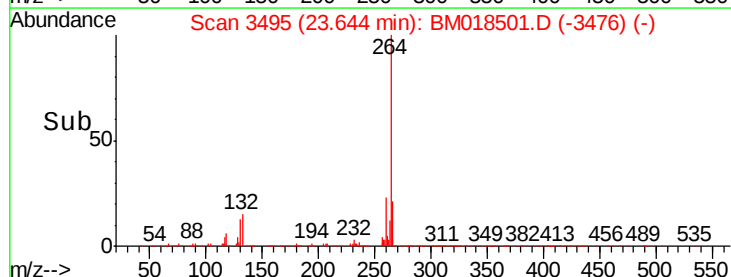
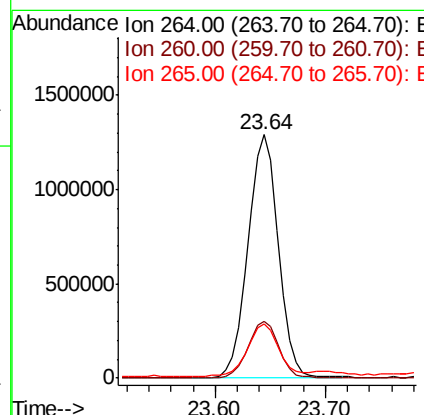
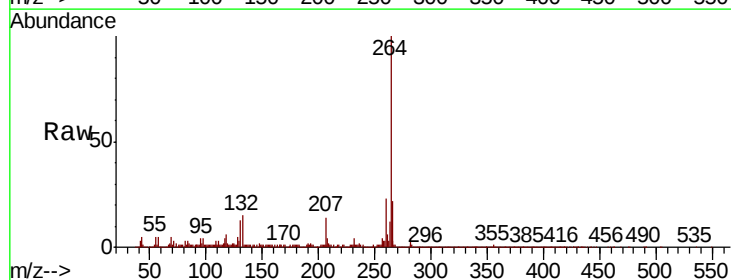
Instrument :  
BNA\_M  
ClientSampleId :  
CPSB-10(10-15)DL

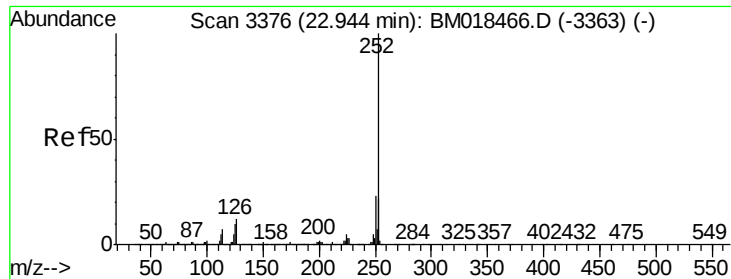
Tot Ion:276 Resp: 735469  
Ion Ratio Lower Upper  
276 100  
138 19.7 21.5 32.3#  
277 25.1 20.2 30.2



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.64 min Scan# 3495  
Delta R.T. 0.01 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

Tgt Ion:264 Resp: 2487810  
Ion Ratio Lower Upper  
264 100  
260 23.4 18.9 28.3  
265 22.1 16.8 25.2

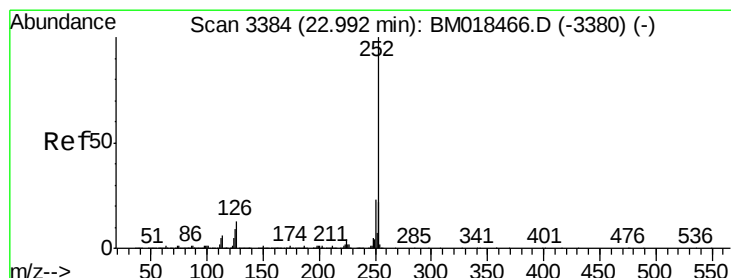
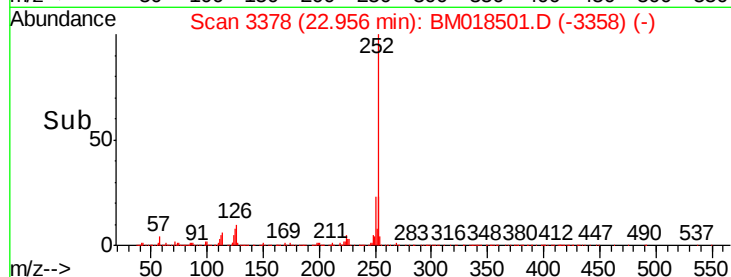
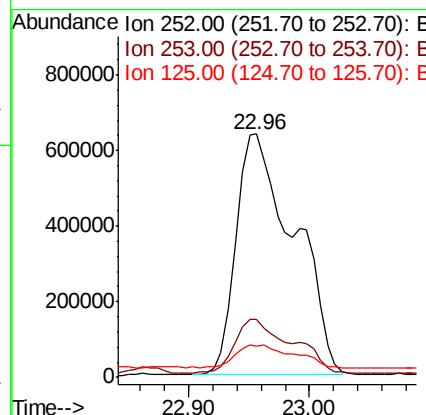
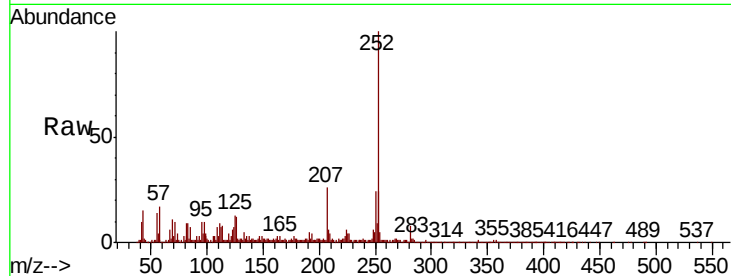




#88  
Benzo(b)fluoranthene  
Concen: 15.080 ng  
RT: 22.96 min Scan# 3378  
Delta R.T. 0.02 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

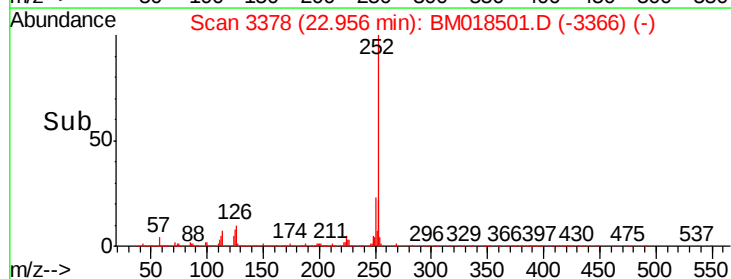
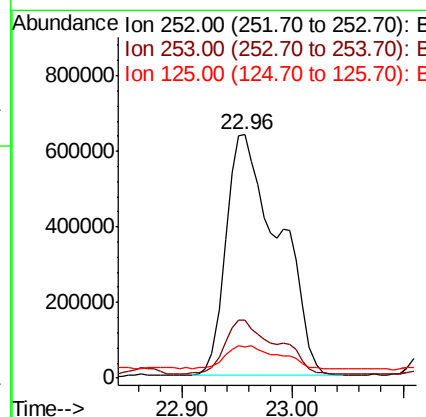
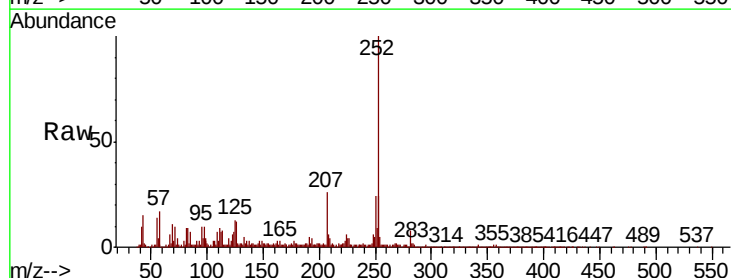
Instrument :  
BNA\_M  
ClientSampleId :  
CPSB-10(10-15)DL

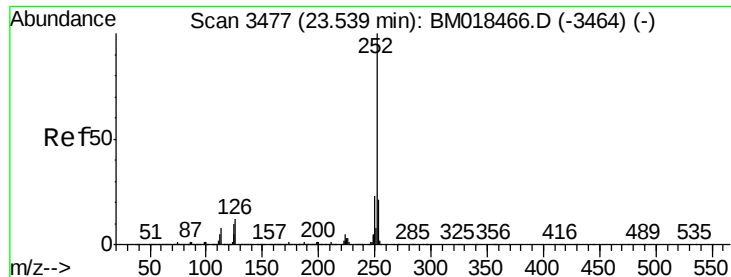
Tot Ion:252 Resp: 2129906  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.6 26.4  
125 12.6 8.5 12.7



#89  
Benzo(k)fluoranthene  
Concen: 14.913 ng  
RT: 22.96 min Scan# 3378  
Delta R.T. -0.03 min  
Lab File: BM018501.D  
Acq: 10 Jan 2019 09:21

Tgt Ion:252 Resp: 2122688  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.4 26.0  
125 12.6 8.6 12.8





#90

Benzo(a)pyrene

Concen: 10.187 ng

RT: 23.54 min Scan# 3478

Delta R.T. 0.01 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Instrument :

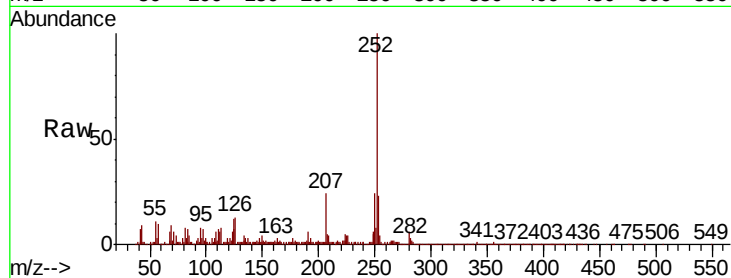
BNA\_M

ClientSampleId :

CPSB-10(10-15)DL

Tot Ion:252 Resp: 1377386

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.9  | 17.5  | 26.3  |
| 125 | 12.1  | 9.7   | 14.5  |

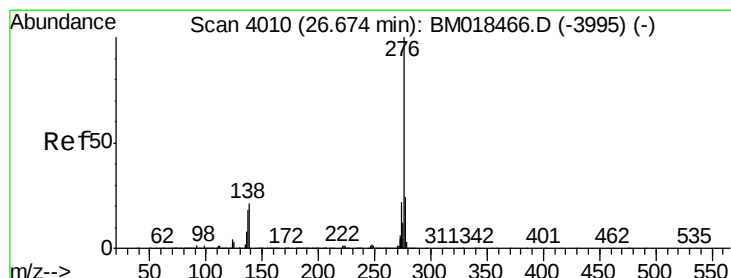
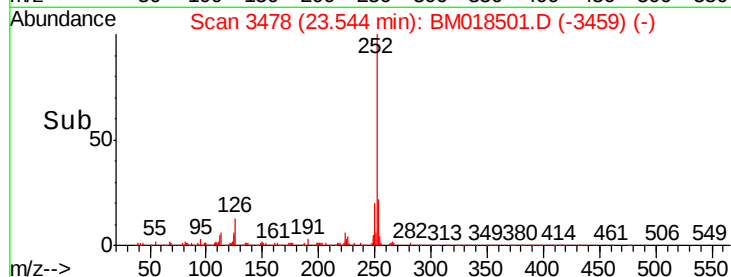
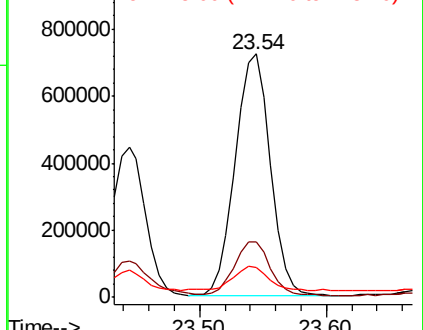


Abundance

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



#92

Benzo(g,h,i)perylene

Concen: 5.506 ng

RT: 26.67 min Scan# 4010

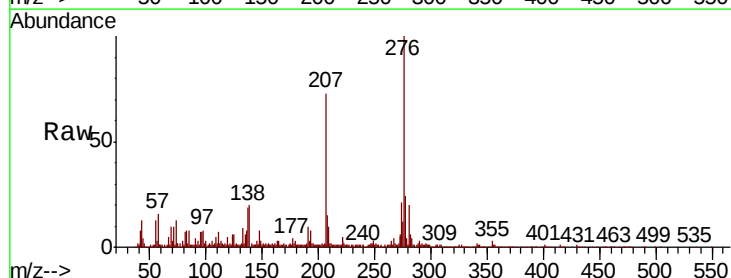
Delta R.T. 0.02 min

Lab File: BM018501.D

Acq: 10 Jan 2019 09:21

Tgt Ion:276 Resp: 734045

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.3  | 19.0  | 28.4  |
| 138 | 20.0  | 18.1  | 27.1  |



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

