

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP060120\  
 Data File : BP002338.D  
 Acq On : 01 Jun 2020 14:36  
 Operator : CG/JU  
 Sample : L2773-21  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :

Quant Time: Jun 01 15:16:12 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP052720.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 29 15:09:03 2020  
 Response via : Initial Calibration

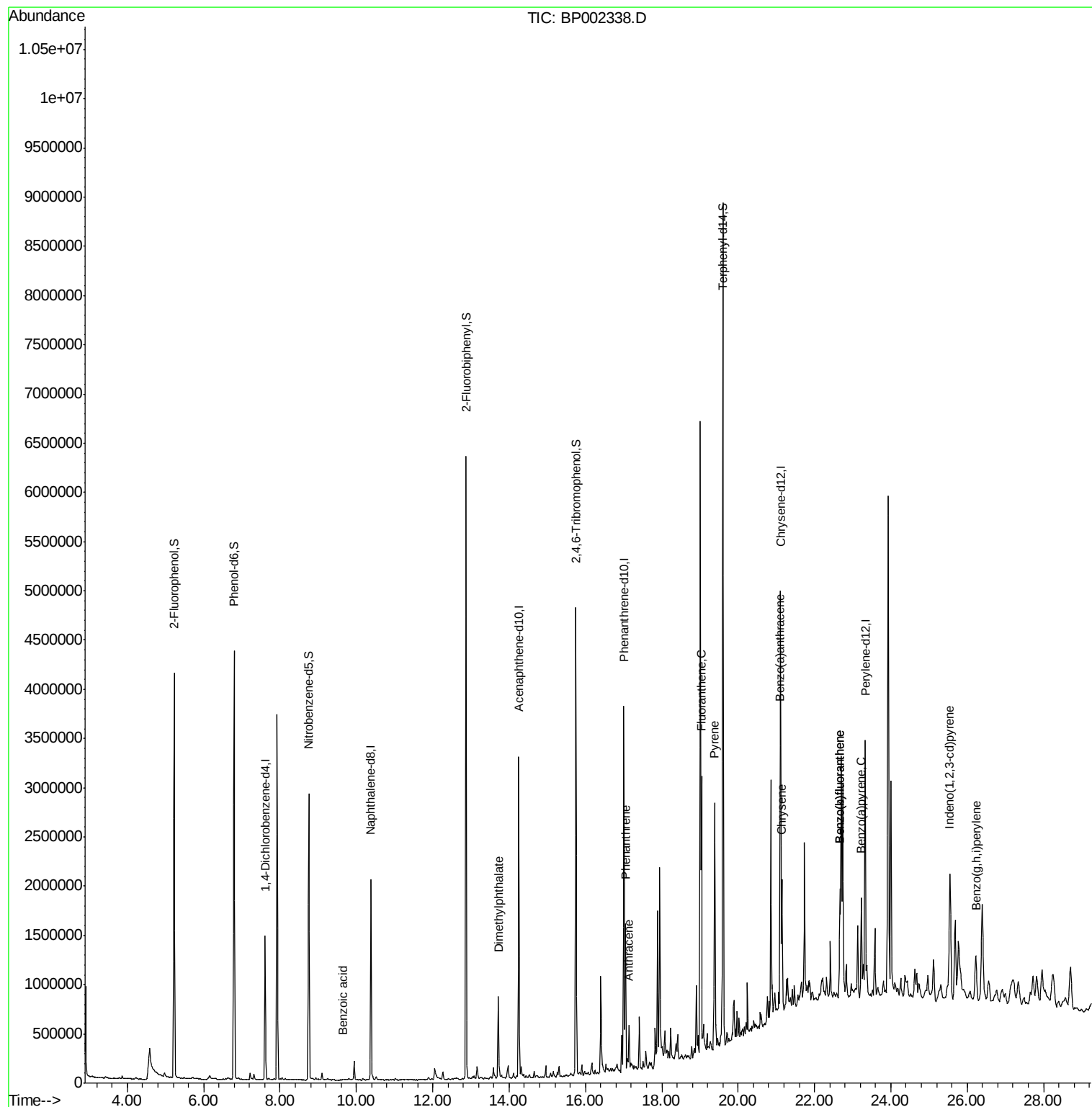
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.61  | 152  | 392730   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 10.38 | 136  | 1599145  | 20.00  | ng    | 0.00      |
| 39) Acenaphthene-d10        | 14.25 | 164  | 948584   | 20.00  | ng    | 0.00      |
| 64) Phenanthrene-d10        | 17.01 | 188  | 2004528  | 20.00  | ng    | 0.00      |
| 76) Chrysene-d12            | 21.12 | 240  | 1721883  | 20.00  | ng    | 0.00      |
| 86) Perylene-d12            | 23.33 | 264  | 1825040  | 20.00  | ng    | 0.01      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.23  | 112  | 1810801  | 86.60  | ng    | 0.00      |
| 7) Phenol-d6                | 6.80  | 99   | 2509638  | 88.23  | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 8.75  | 82   | 1687095  | 63.43  | ng    | 0.00      |
| 42) 2,4,6-Tribromophenol    | 15.75 | 330  | 835918   | 92.98  | ng    | 0.00      |
| 45) 2-Fluorobiphenyl        | 12.87 | 172  | 3443700  | 64.06  | ng    | 0.00      |
| 79) Terphenyl-d14           | 19.60 | 244  | 4263757  | 59.97  | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 32) Benzoic acid            | 9.65  | 122  | 3143     | 4.989  | ng    | Qvalue 87 |
| 50) Dimethylphthalate       | 13.72 | 163  | 449052   | 6.994  | ng    | 99        |
| 71) Phenanthrene            | 17.05 | 178  | 828261   | 8.723  | ng    | 98        |
| 72) Anthracene              | 17.14 | 178  | 228995   | 2.451  | ng    | 98        |
| 75) Fluoranthene            | 19.04 | 202  | 1630160  | 14.906 | ng    | 100       |
| 78) Pyrene                  | 19.39 | 202  | 1485686  | 13.856 | ng    | 98        |
| 81) Benzo(a)anthracene      | 21.10 | 228  | 749373   | 7.603  | ng    | 99        |
| 83) Chrysene                | 21.15 | 228  | 690539   | 7.300  | ng    | 98        |
| 87) Indeno(1,2,3-cd)pyrene  | 25.54 | 276  | 481960   | 4.266  | ng    | 98        |
| 88) Benzo(b)fluoranthene    | 22.66 | 252  | 1256955  | 12.633 | ng    | # 96      |
| 89) Benzo(k)fluoranthene    | 22.66 | 252  | 1256955  | 13.164 | ng    | # 96      |
| 90) Benzo(a)pyrene          | 23.23 | 252  | 708324   | 7.674  | ng    | 97        |
| 92) Benzo(a,h,i)perylene    | 26.23 | 276  | 499702   | 5.319  | ng    | # 92      |

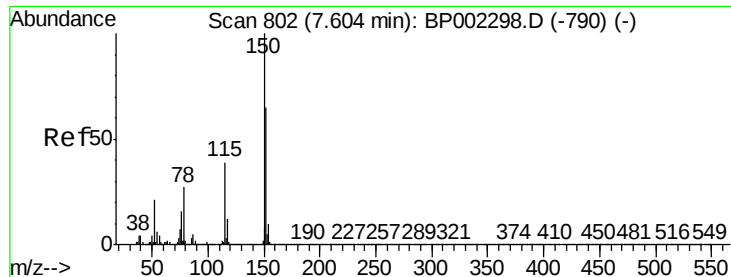
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 29 15:09:03 2020  
Response via : Initial Calibration



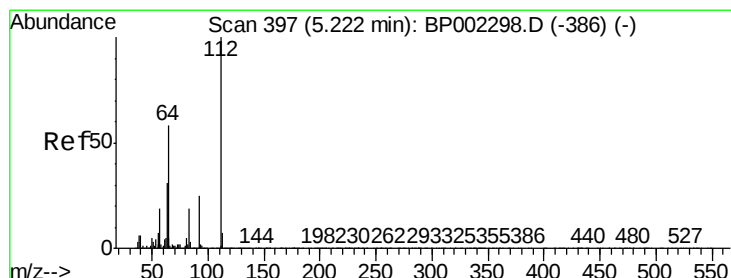
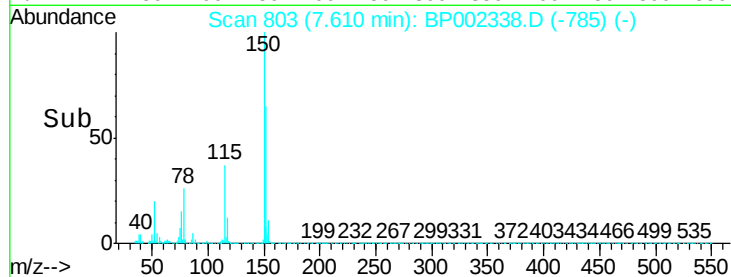
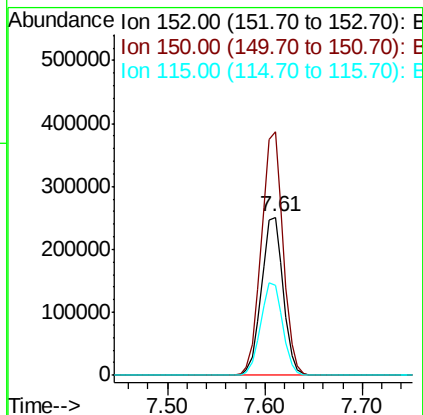
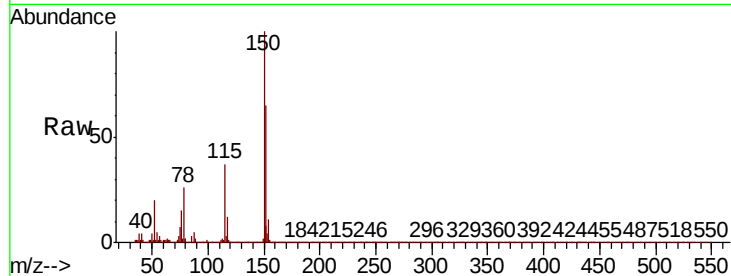


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.61 min Scan# 803  
Delta R.T. 0.01 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

Instrument :  
BNA\_P  
ClientSampled :

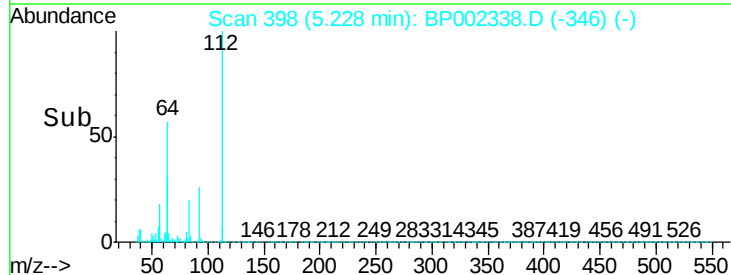
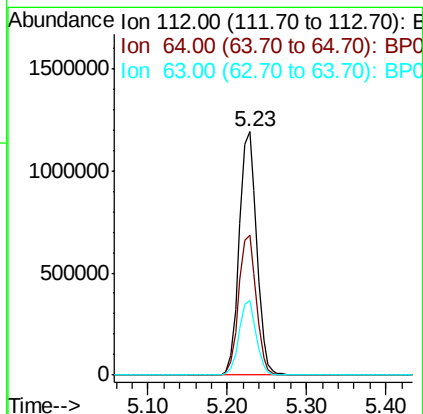
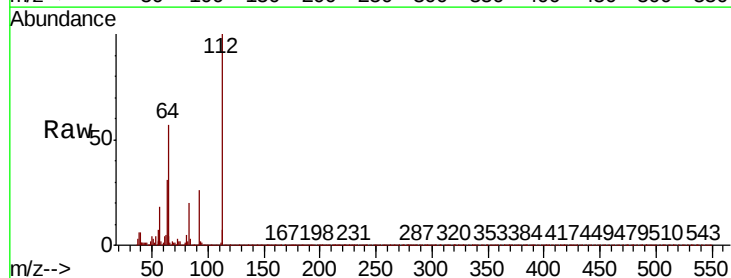
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.2 | 124.7 | 187.1 |
| 115     | 57.4  | 49.4  | 74.2  |

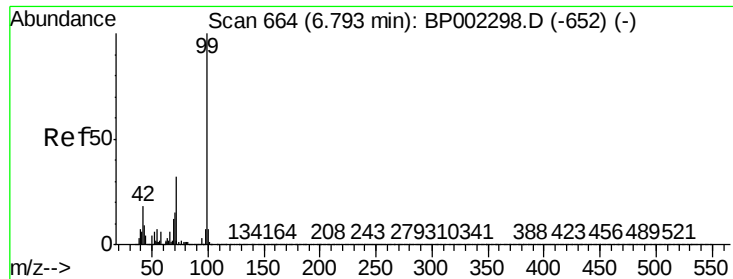


#5

2-Fluorophenol  
Concen: 86.597 ng  
RT: 5.23 min Scan# 398  
Delta R.T. 0.01 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.4  | 47.0  | 70.4  |
| 63      | 30.5  | 24.0  | 36.0  |





#7

Phenol-d6

Concen: 88.227 ng

RT: 6.80 min Scan# 665

Delta R.T. 0.01 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampleId :

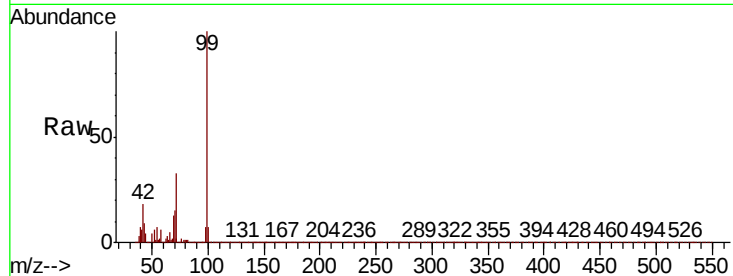
Tot Ion: 99 Resp: 2509638

Ion Ratio Lower Upper

99 100

42 17.8 13.9 20.9

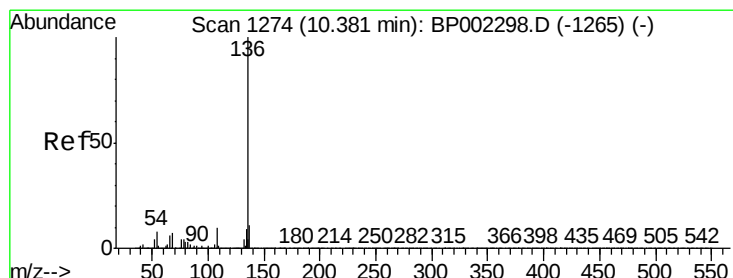
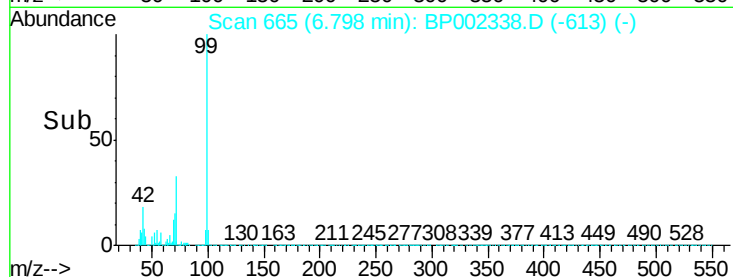
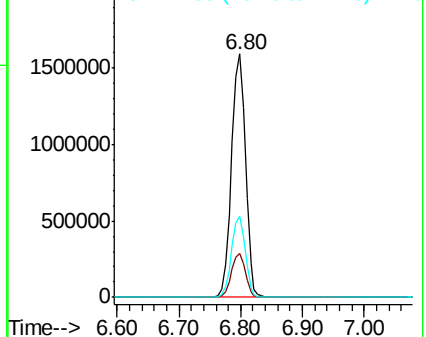
71 33.1 25.8 38.8



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.38 min Scan# 1274

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Tgt Ion: 136 Resp: 1599145

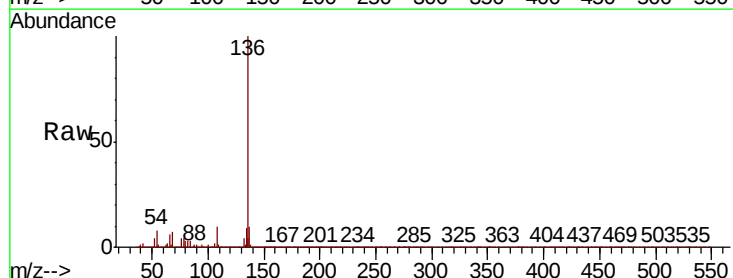
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 8.2 6.9 10.3

68 7.1 5.6 8.4

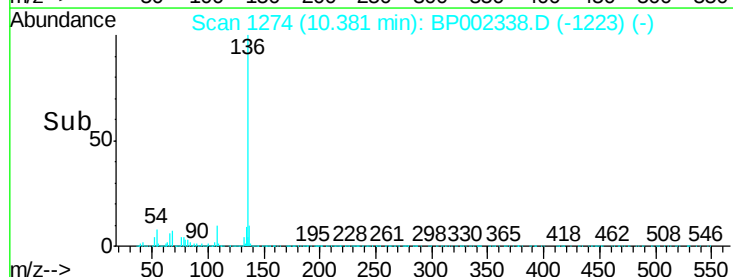
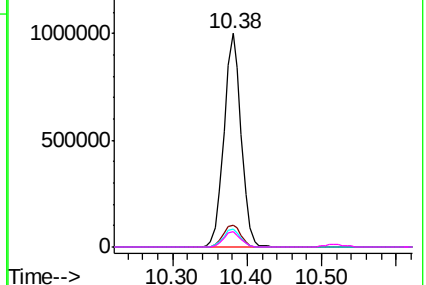


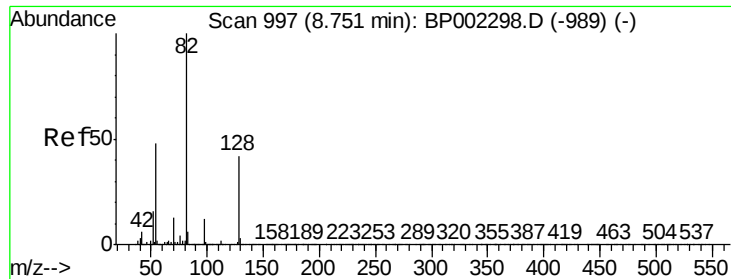
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

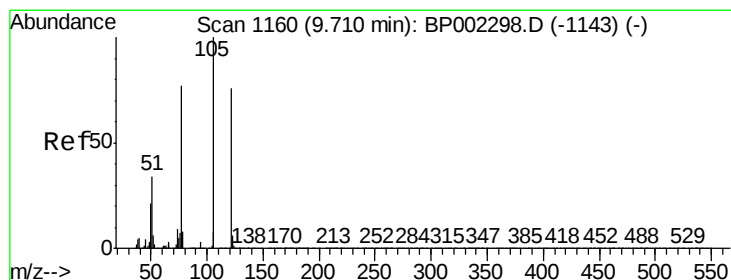
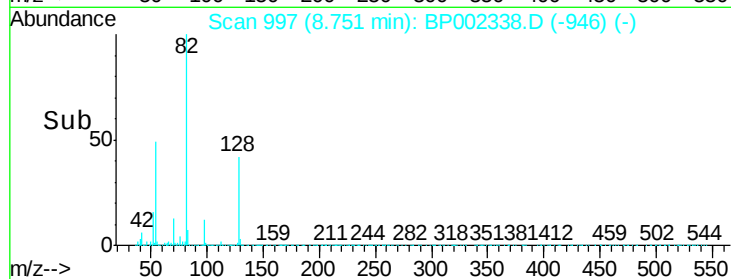
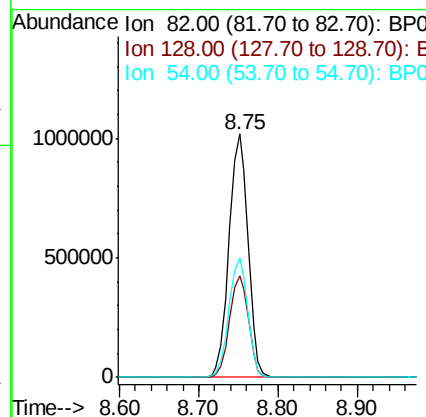
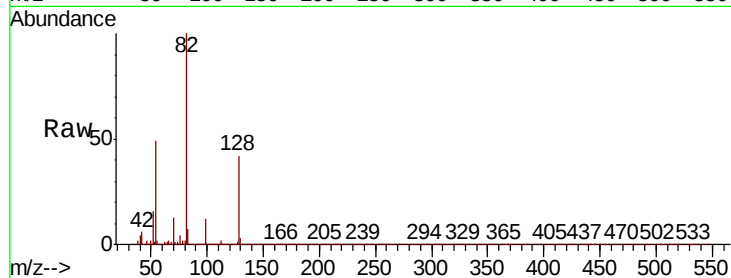




#23  
Nitrobenzene-d5  
Concen: 63.429 ng  
RT: 8.75 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

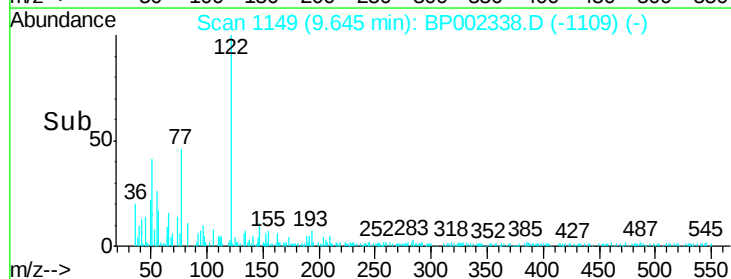
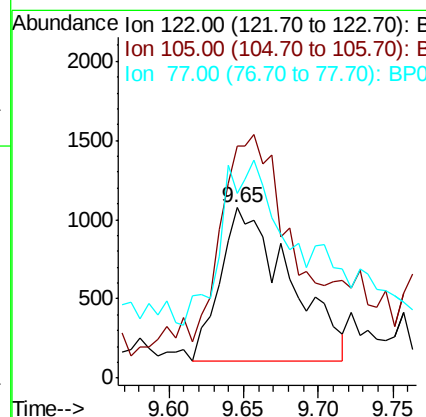
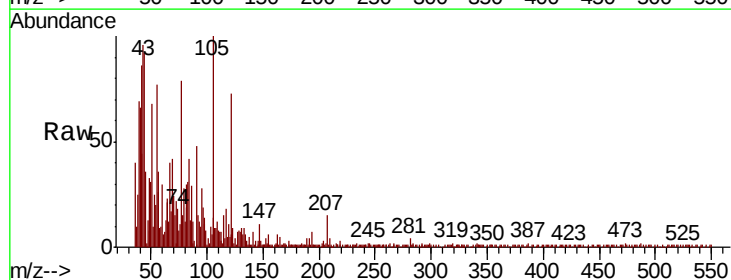
Instrument :  
BNA\_P  
ClientSampled :

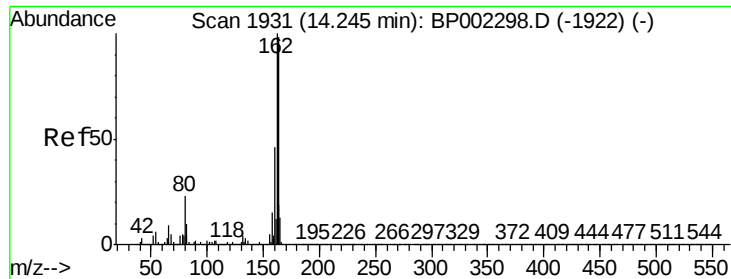
Tot Ion: 82 Resp: 1687095  
Ion Ratio Lower Upper  
82 100  
128 41.6 33.4 50.0  
54 49.2 38.3 57.5



#32  
Benzoic acid  
Concen: 4.989 ng  
RT: 9.65 min Scan# 1149  
Delta R.T. -0.07 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

Tgt Ion: 122 Resp: 3143  
Ion Ratio Lower Upper  
122 100  
105 136.2 102.7 142.7  
77 108.3 74.8 114.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.25 min Scan# 1932

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampleId :

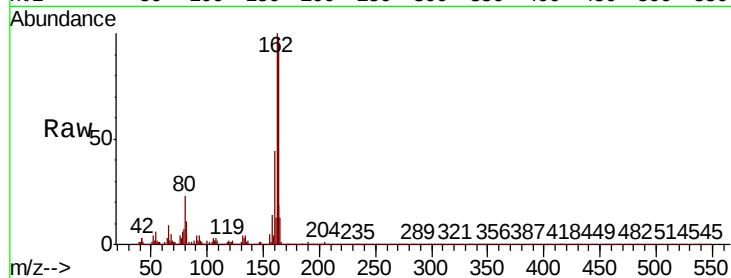
Tot Ion:164 Resp: 948584

Ion Ratio Lower Upper

164 100

162 102.4 81.3 121.9

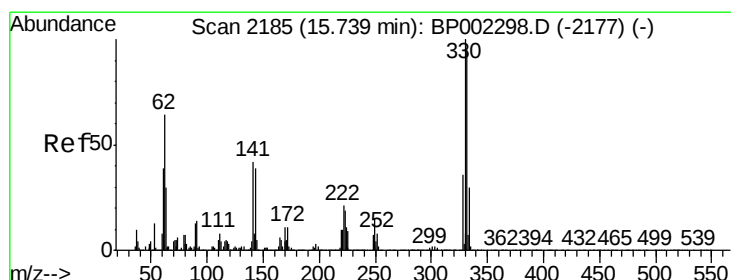
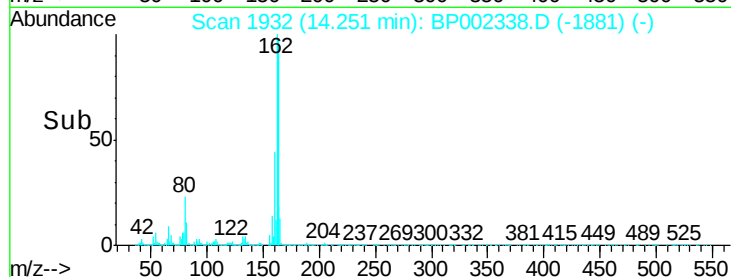
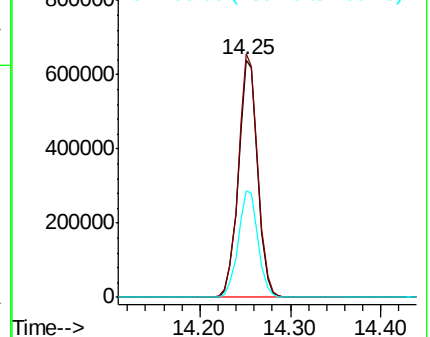
160 45.0 37.2 55.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 92.980 ng

RT: 15.75 min Scan# 2187

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

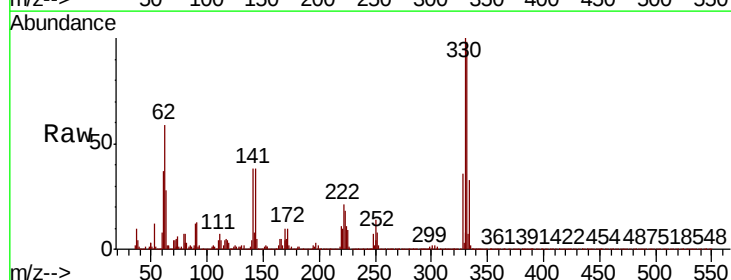
Tgt Ion:330 Resp: 835918

Ion Ratio Lower Upper

330 100

332 97.3 76.9 115.3

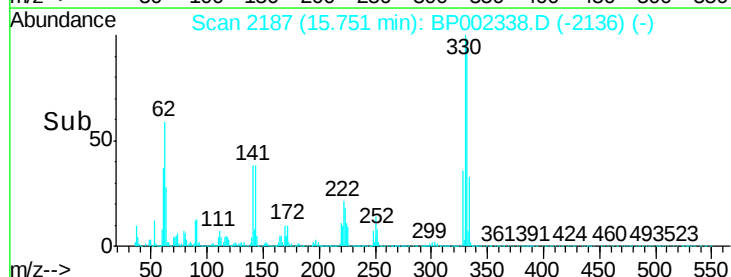
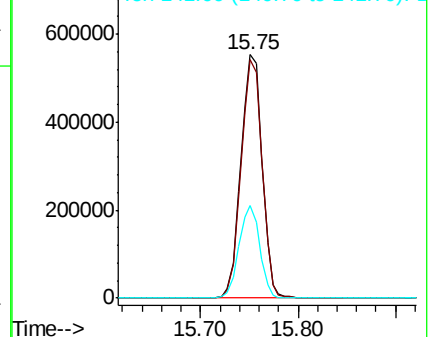
141 37.0 31.4 47.2

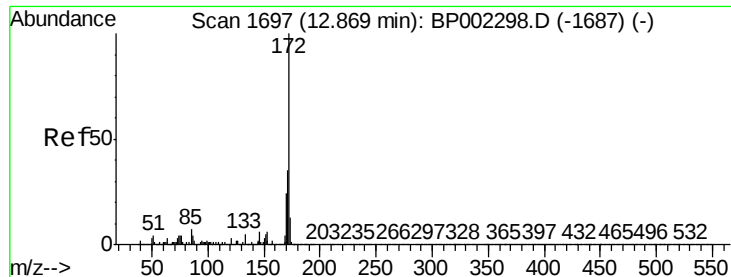


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

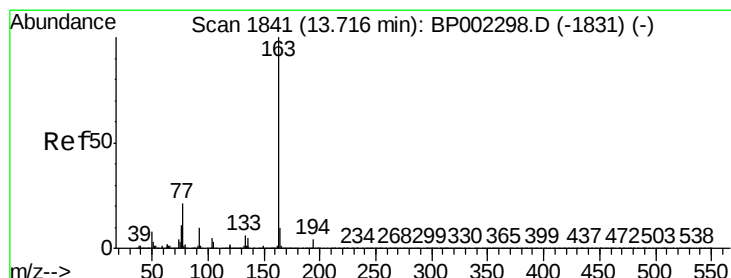
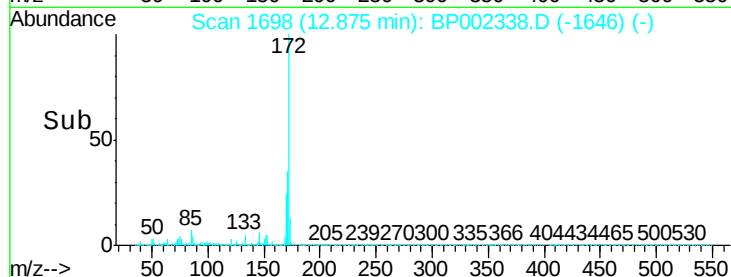
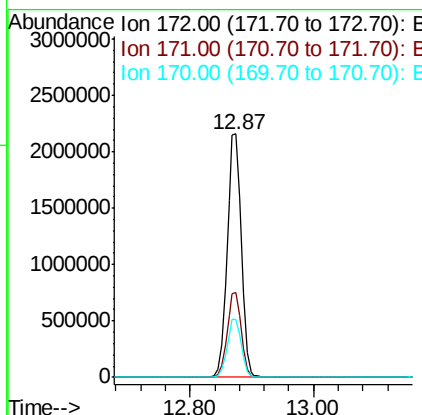
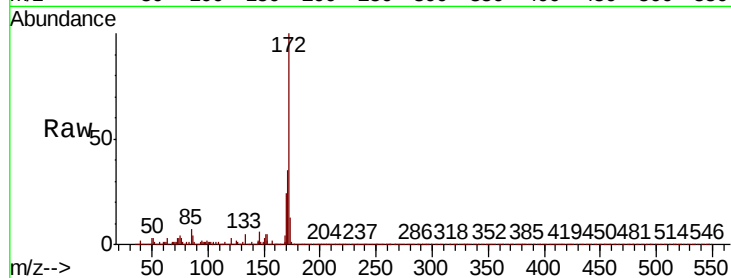




#45  
2-Fluorobiphenyl  
Concen: 64.059 ng  
RT: 12.87 min Scan# 1698  
Delta R.T. 0.01 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

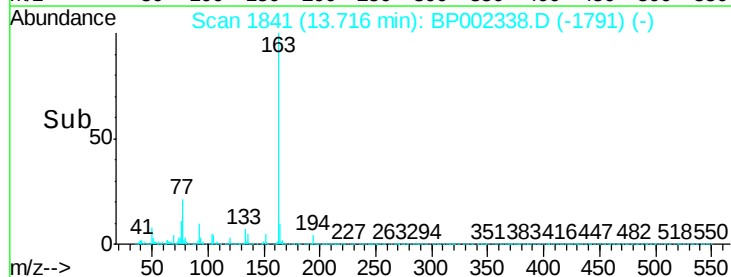
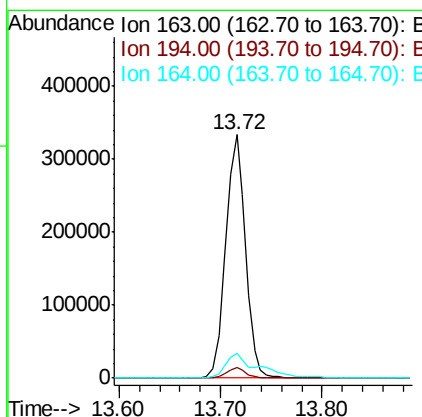
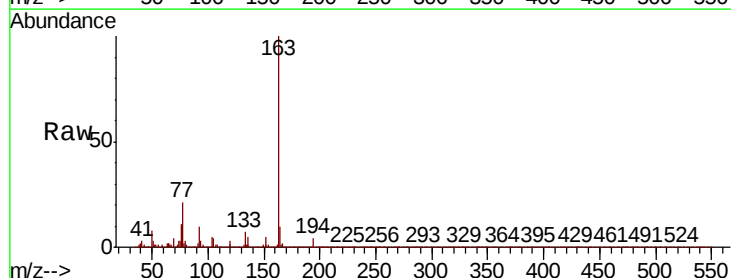
Instrument :  
BNA\_P  
ClientSampled :

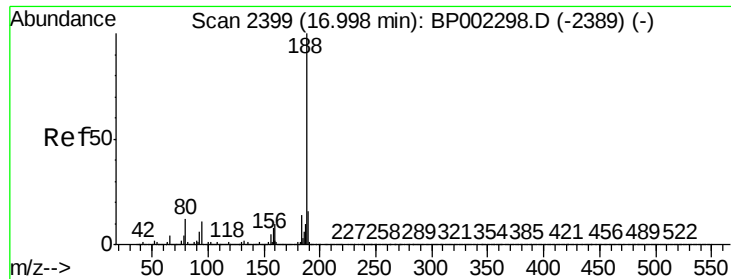
Tot Ion:172 Resp: 3443700  
Ion Ratio Lower Upper  
172 100  
171 34.7 27.6 41.4  
170 24.1 18.9 28.3



#50  
Dimethylphthalate  
Concen: 6.994 ng  
RT: 13.72 min Scan# 1841  
Delta R.T. -0.01 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

Tgt Ion:163 Resp: 449052  
Ion Ratio Lower Upper  
163 100  
194 4.3 3.2 4.8  
164 10.4 8.1 12.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.01 min Scan# 2401

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampleId :

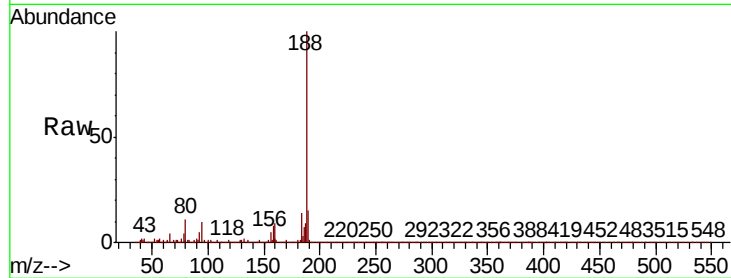
Tot Ion:188 Resp: 2004528

Ion Ratio Lower Upper

188 100

94 10.3 8.7 13.1

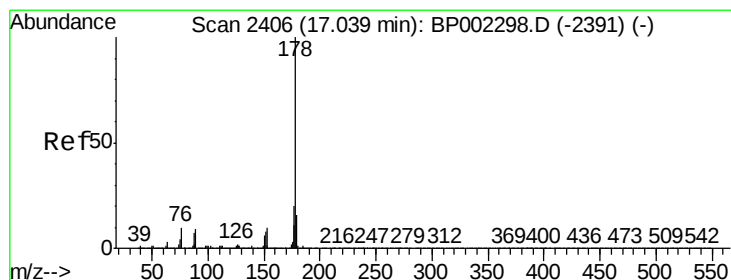
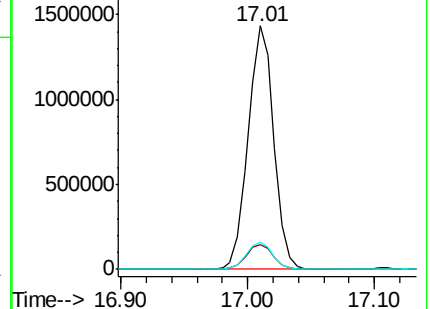
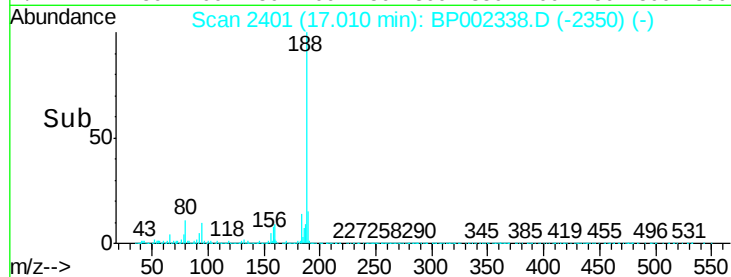
80 11.1 9.3 13.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#71

Phenanthrene

Concen: 8.723 ng

RT: 17.05 min Scan# 2408

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

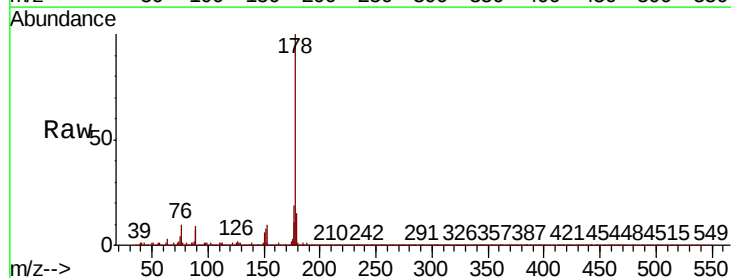
Tgt Ion:178 Resp: 828261

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.8

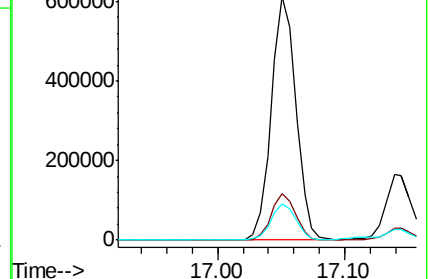
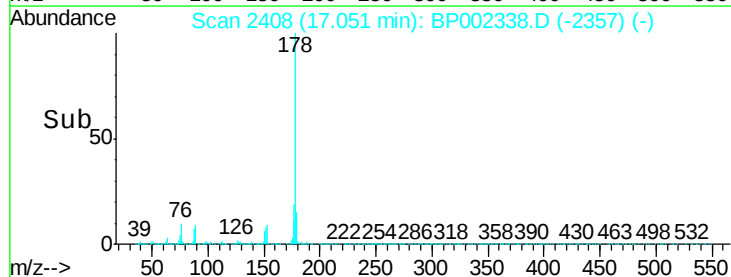
179 14.9 12.6 18.8

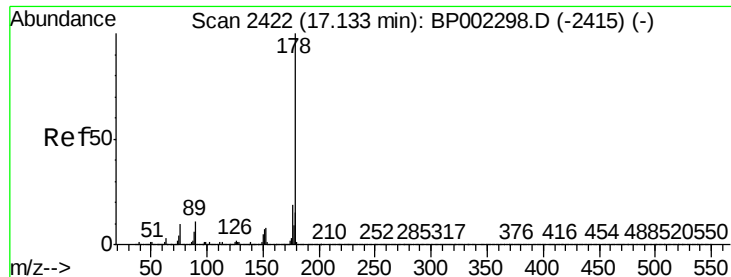


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 2.451 ng

RT: 17.14 min Scan# 2423

Delta R.T. -0.01 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampleId :

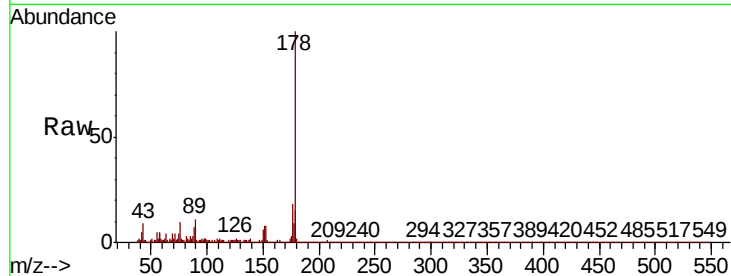
Tot Ion:178 Resp: 228995

Ion Ratio Lower Upper

178 100

176 18.1 15.2 22.8

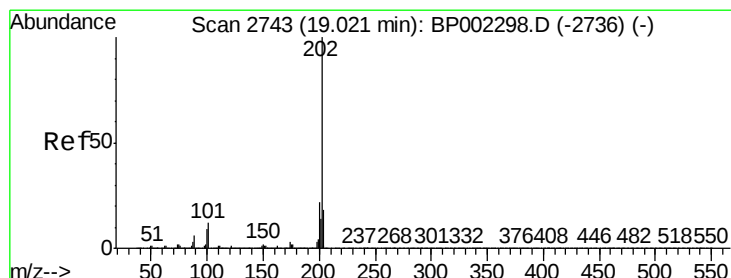
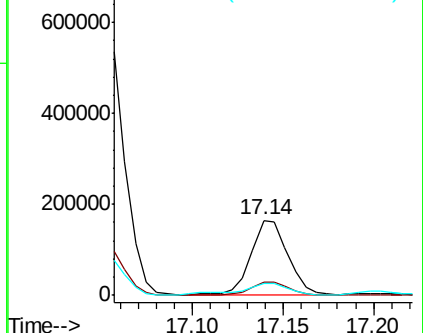
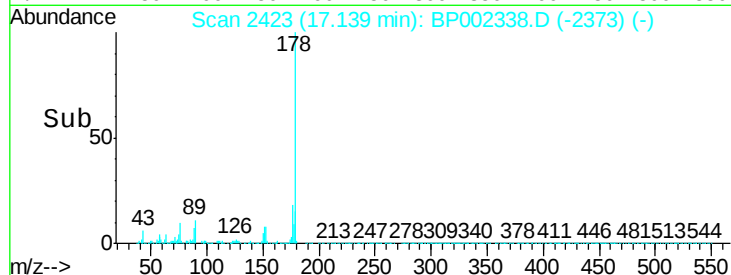
179 15.3 12.6 19.0



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: 14.906 ng

RT: 19.04 min Scan# 2746

Delta R.T. 0.01 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

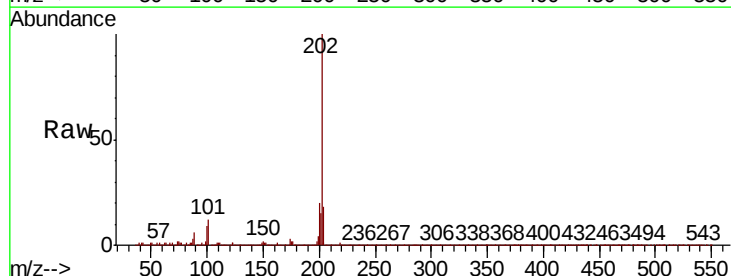
Tgt Ion:202 Resp: 1630160

Ion Ratio Lower Upper

202 100

101 11.8 0.0 32.1

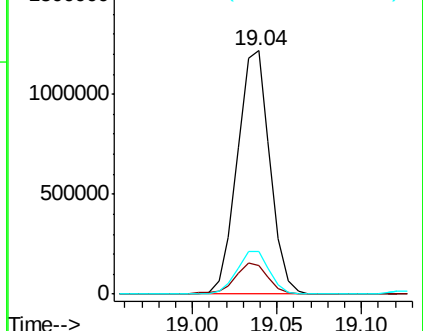
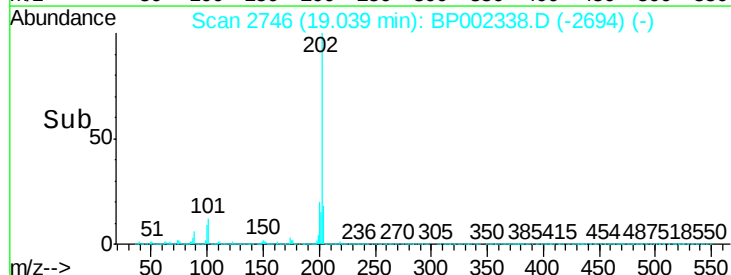
203 17.6 0.0 37.6

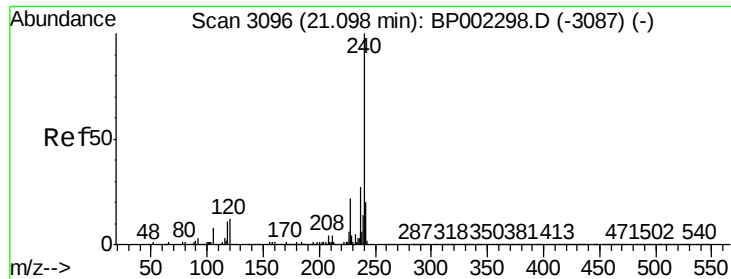


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

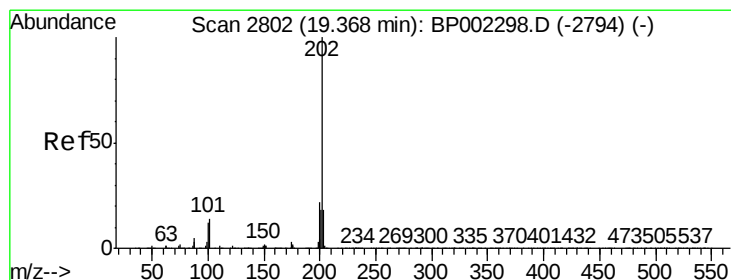
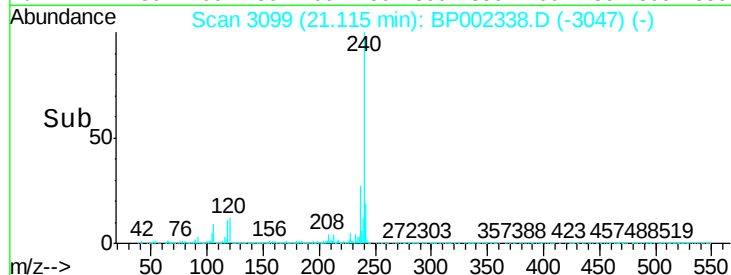
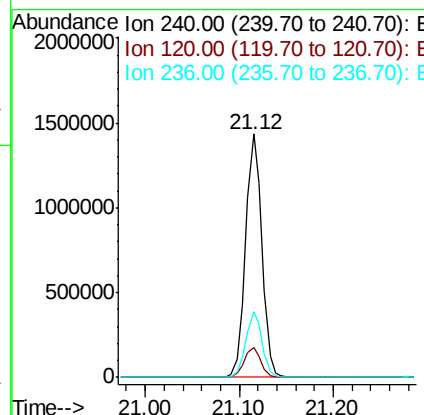
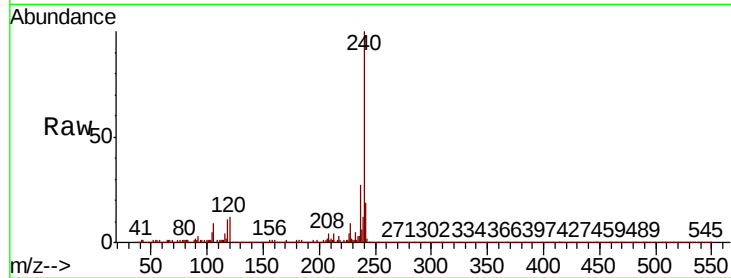




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.12 min Scan# 3099  
Delta R.T. 0.01 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

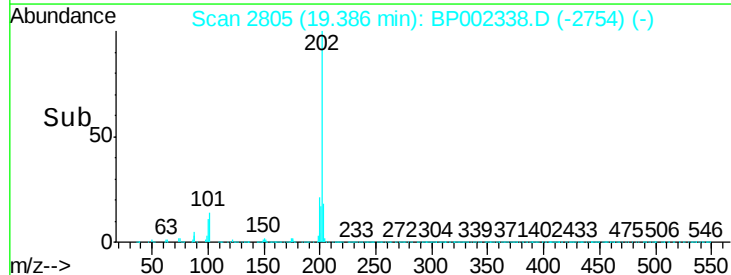
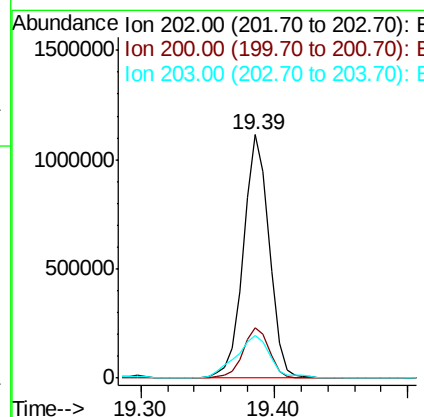
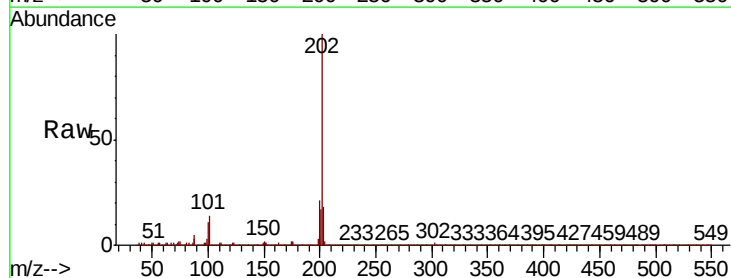
Instrument :  
BNA\_P  
ClientSampleId :

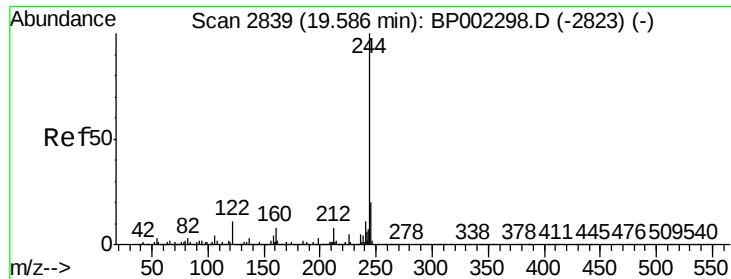
Tot Ion:240 Resp: 1721883  
Ion Ratio Lower Upper  
240 100  
120 12.2 8.7 13.1  
236 26.7 21.0 31.4



#78  
Pyrene  
Concen: 13.856 ng  
RT: 19.39 min Scan# 2805  
Delta R.T. -0.00 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

Tgt Ion:202 Resp: 1485686  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.3 25.9  
203 17.7 13.8 20.6





#79

Terphenyl-d14

Concen: 59.967 ng

RT: 19.60 min Scan# 2841

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampleId :

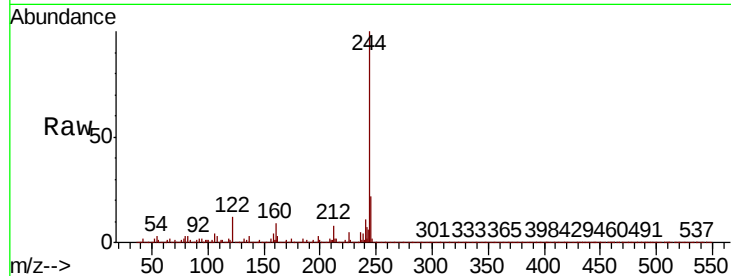
Tot Ion:244 Resp: 4263757

Ion Ratio Lower Upper

244 100

212 8.2 6.4 9.6

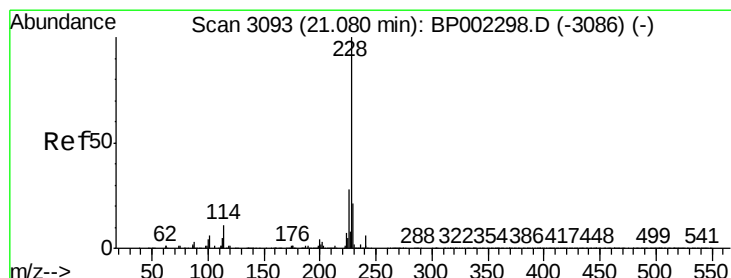
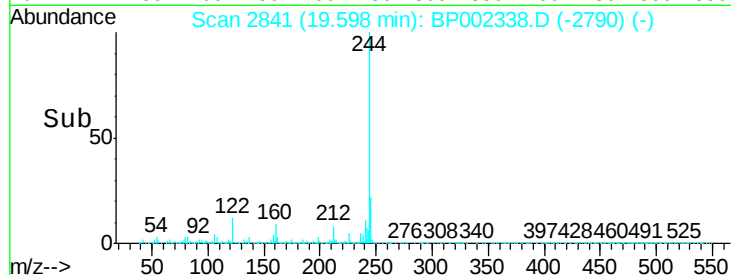
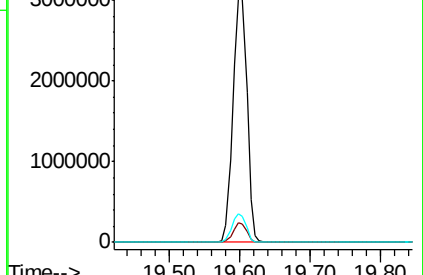
122 11.8 9.4 14.0



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



#81

Benzo(a)anthracene

Concen: 7.603 ng

RT: 21.10 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

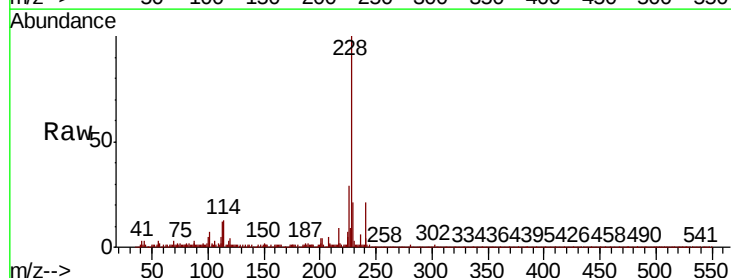
Tgt Ion:228 Resp: 749373

Ion Ratio Lower Upper

228 100

226 28.9 22.7 34.1

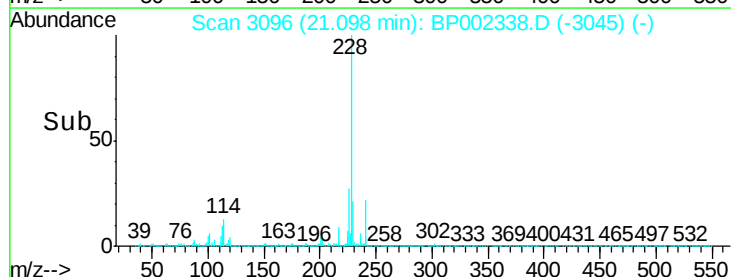
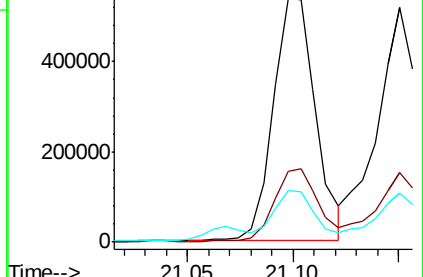
229 21.0 16.3 24.5

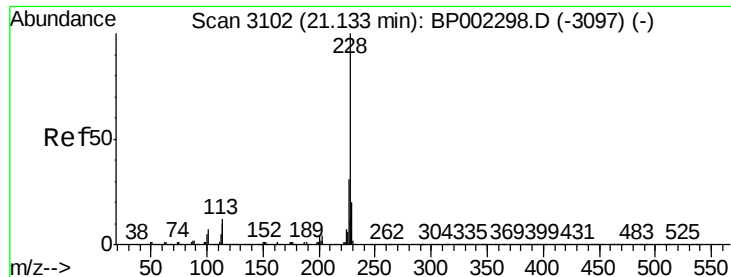


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 7.300 ng

RT: 21.15 min Scan# 3105

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampleId :

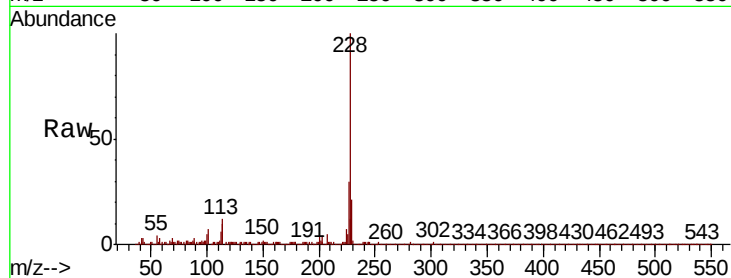
Tot Ion:228 Resp: 690539

Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.6

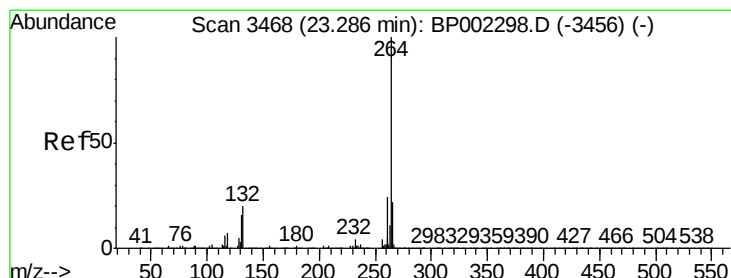
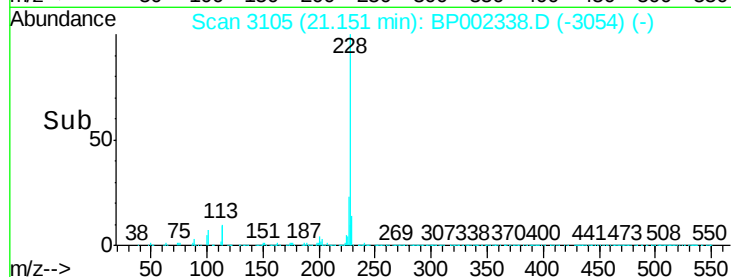
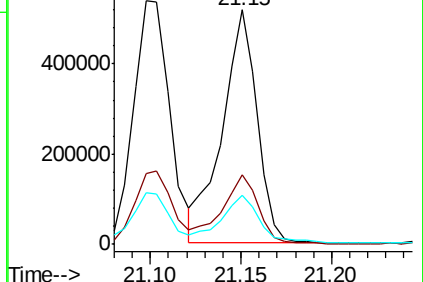
229 21.0 16.2 24.4



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

Perylene-d12

Concen: 20.000 ng

RT: 23.33 min Scan# 3475

Delta R.T. 0.01 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

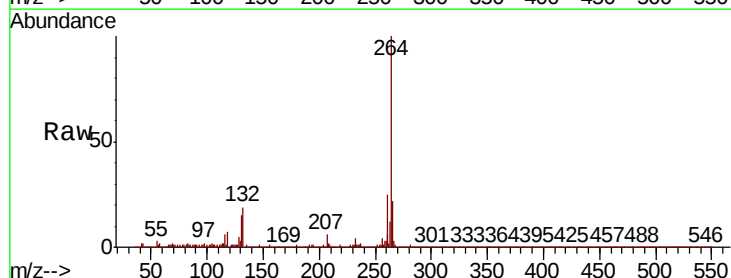
Tgt Ion:264 Resp: 1825040

Ion Ratio Lower Upper

264 100

260 24.6 19.4 29.2

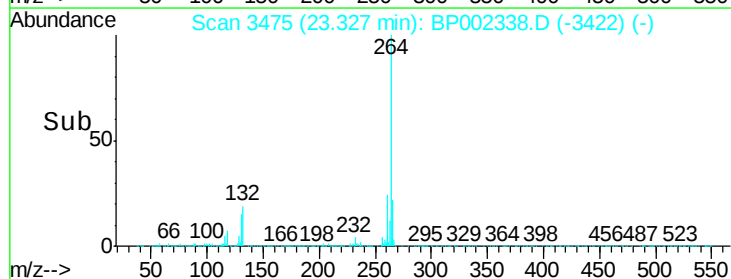
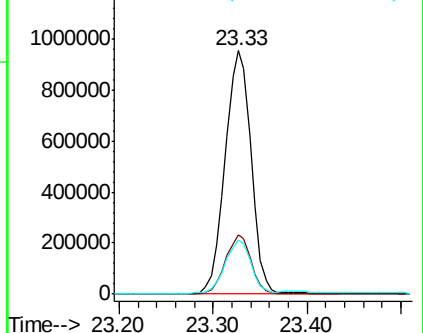
265 22.0 17.8 26.6

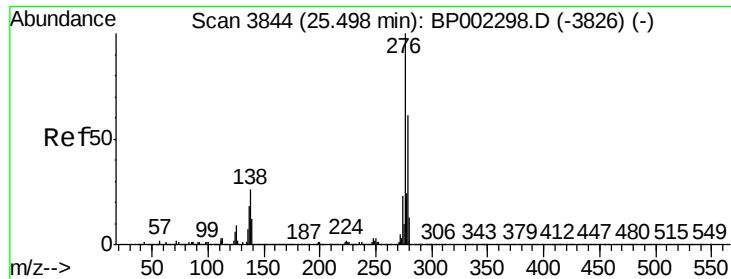


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.266 ng

RT: 25.54 min Scan# 3852

Delta R.T. -0.00 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampled :

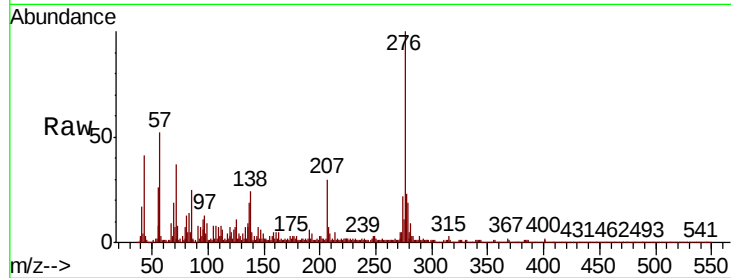
Tot Ion:276 Resp: 481960

Ion Ratio Lower Upper

276 100

138 24.9 18.2 27.4

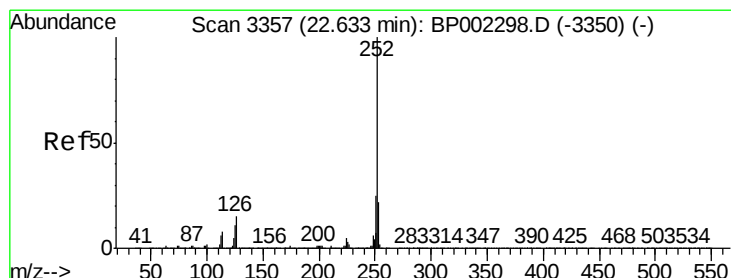
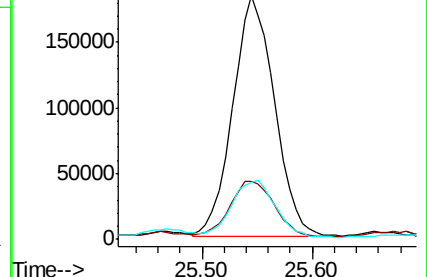
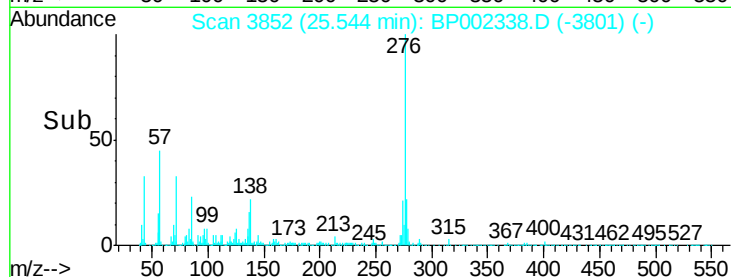
277 25.1 20.2 30.2



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



#88

Benzo(b)fluoranthene

Concen: 12.633 ng

RT: 22.66 min Scan# 3362

Delta R.T. 0.01 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

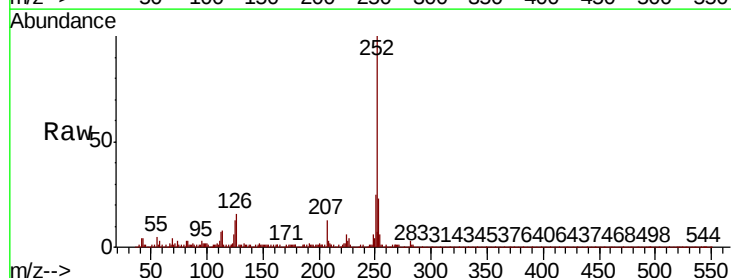
Tgt Ion:252 Resp: 1256955

Ion Ratio Lower Upper

252 100

253 23.2 18.2 27.2

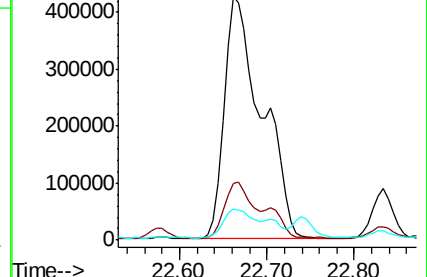
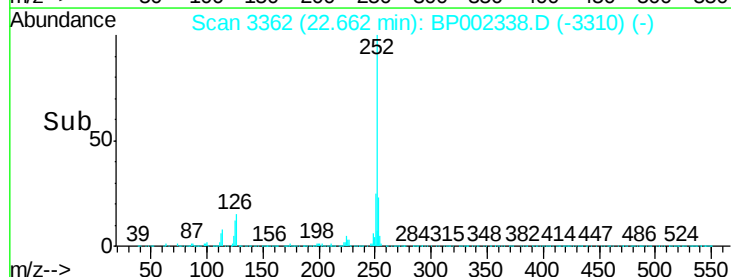
125 12.6 7.2 10.8#

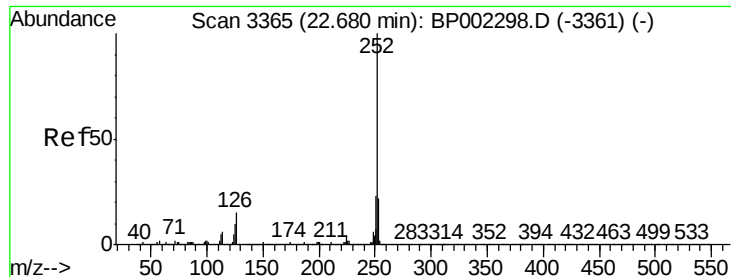


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

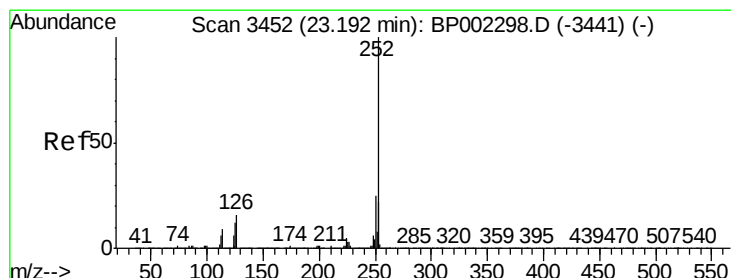
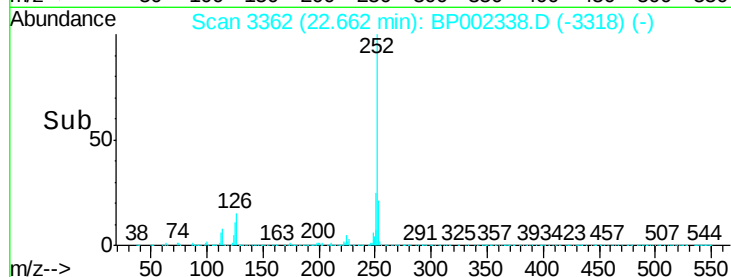
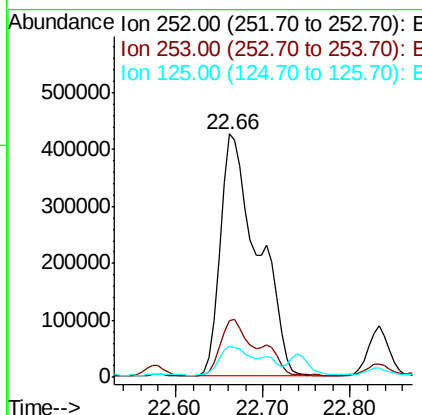
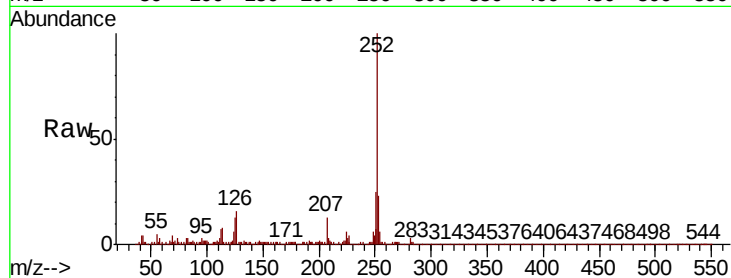




#89  
Benzo(k)fluoranthene  
Concen: 13.164 ng  
RT: 22.66 min Scan# 3362  
Delta R.T. -0.04 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

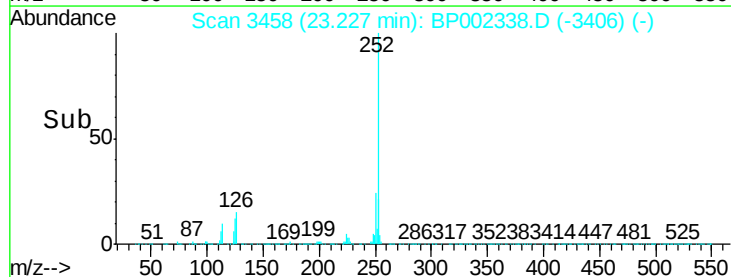
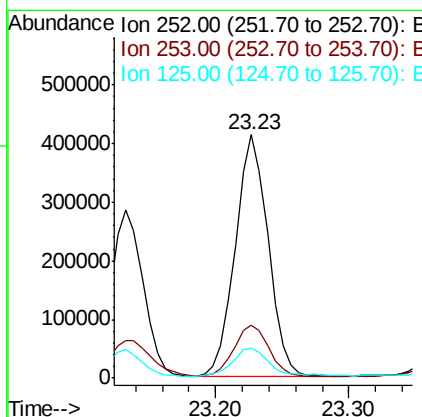
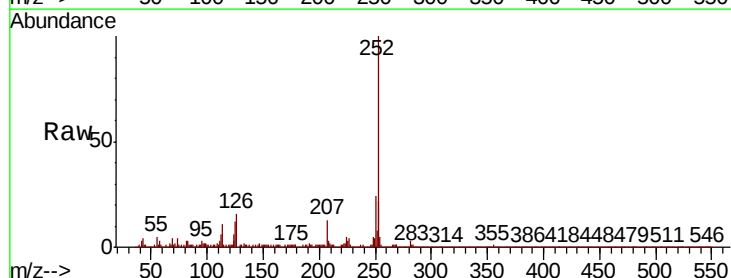
Instrument :  
BNA\_P  
ClientSampled :

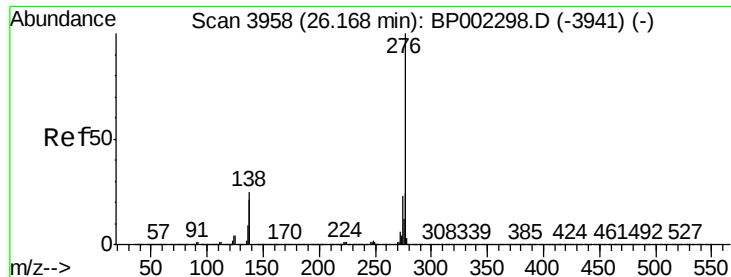
Tot Ion:252 Resp: 1256955  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.9 26.9  
125 12.6 7.4 11.2#



#90  
Benzo(a)pyrene  
Concen: 7.674 ng  
RT: 23.23 min Scan# 3458  
Delta R.T. 0.01 min  
Lab File: BP002338.D  
Acq: 01 Jun 2020 14:36

Tgt Ion:252 Resp: 708324  
Ion Ratio Lower Upper  
252 100  
253 21.5 18.0 27.0  
125 12.4 8.4 12.6





#92

Benzo(a,h,i)perylene

Concen: 5.319 ng

RT: 26.23 min Scan# 3968

Delta R.T. 0.01 min

Lab File: BP002338.D

Acq: 01 Jun 2020 14:36

Instrument :

BNA\_P

ClientSampleId :

Tot Ion: 276 Resp: 499702

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 26.8 16.0 24.0#

