

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP092220\  
 Data File : BP003346.D  
 Acq On : 22 Sep 2020 19:11  
 Operator : CG/JU  
 Sample : L3869-06DL 4X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 OR-02-091820DL

Quant Time: Sep 22 20:48:49 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 22 12:48:08 2020  
 Response via : Initial Calibration

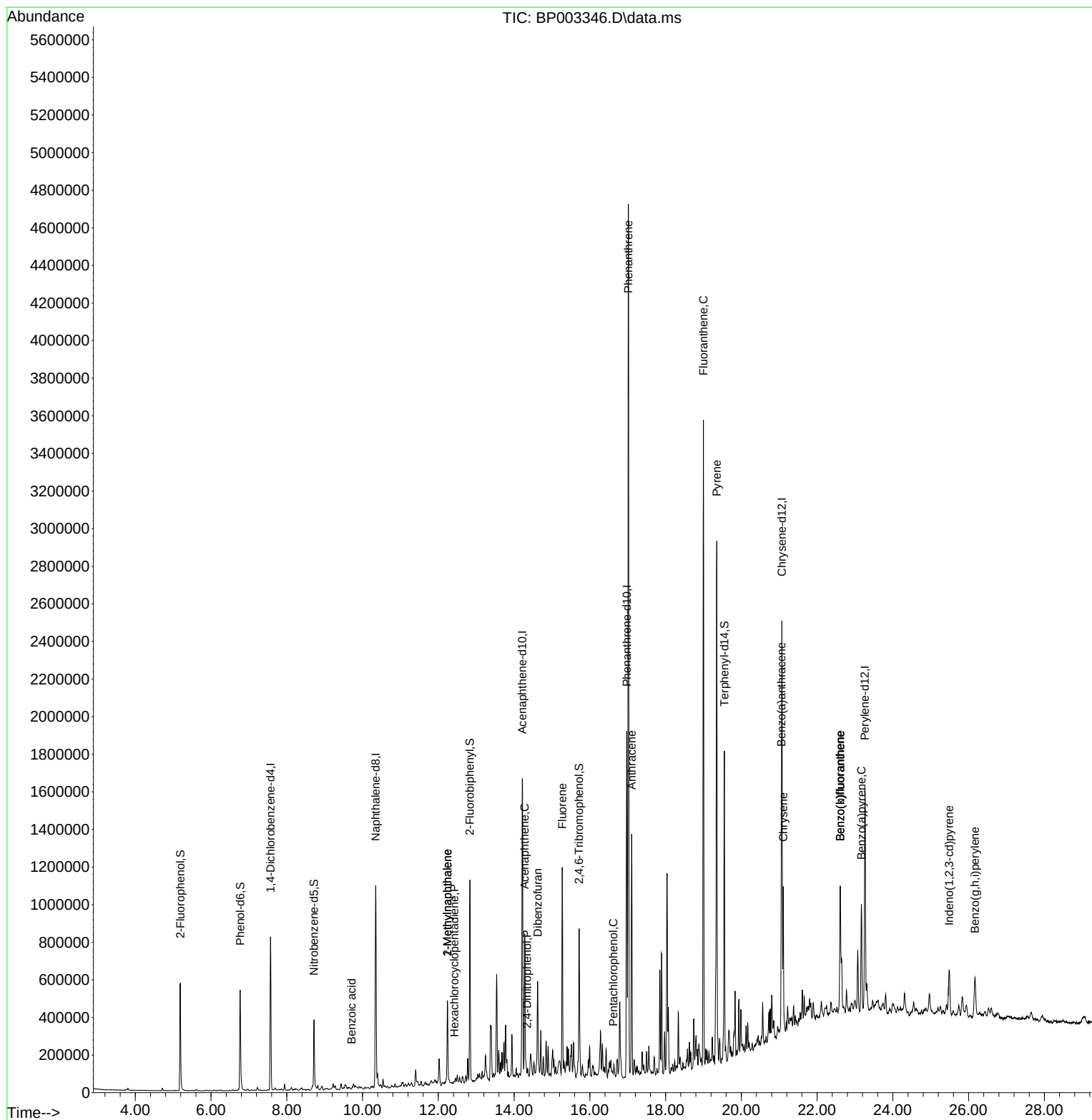
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.569  | 152  | 228286   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.346 | 136  | 918794   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.216 | 164  | 536234   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 16.975 | 188  | 1100788  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.069 | 240  | 859382   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12              | 23.263 | 264  | 826043   | 20.00 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.187  | 112  | 293326   | 22.44 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.769  | 99   | 380648   | 21.84 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.716  | 82   | 242735   | 15.52 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.716 | 330  | 131435   | 16.07 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.834 | 172  | 550826   | 15.02 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.551 | 244  | 664707   | 16.12 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 32) Benzoic acid              | 9.710  | 122  | 62       | 9.16  | ng    | # 1      |
| 37) 2-Methylnaphthalene       | 12.240 | 142  | 208204   | 5.92  | ng    | 94       |
| 38) 1-Methylnaphthalene       | 12.240 | 142  | 210007   | 6.29  | ng    | # 100    |
| 41) Hexachlorocyclopentadiene | 12.422 | 237  | 18       | 6.84  | ng    | 93       |
| 52) Acenaphthene              | 14.281 | 154  | 267976   | 8.70  | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 14.340 | 184  | 41       | 7.26  | ng    | # 1      |
| 55) Dibenzofuran              | 14.622 | 168  | 226025   | 4.60  | ng    | # 94     |
| 58) Fluorene                  | 15.275 | 166  | 482537   | 12.43 | ng    | 100      |
| 70) Pentachlorophenol         | 16.622 | 266  | 16       | 6.77  | ng    | # 25     |
| 71) Phenanthrene              | 17.016 | 178  | 2916540  | 48.70 | ng    | 99       |
| 72) Anthracene                | 17.104 | 178  | 777780   | 13.18 | ng    | 100      |
| 75) Fluoranthene              | 18.998 | 202  | 1960442  | 26.03 | ng    | 99       |
| 78) Pyrene                    | 19.351 | 202  | 1682339  | 31.39 | ng    | 100      |
| 81) Benzo(a)anthracene        | 21.057 | 228  | 485229   | 8.73  | ng    | 99       |
| 83) Chrysene                  | 21.104 | 228  | 407787   | 7.64  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 25.486 | 276  | 236670   | 3.78  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 22.610 | 252  | 466375   | 8.94  | ng    | 95       |
| 89) Benzo(k)fluoranthene      | 22.610 | 252  | 466375   | 9.33  | ng    | 96       |
| 90) Benzo(a)pyrene            | 23.169 | 252  | 355196   | 7.22  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 26.168 | 276  | 236672   | 4.59  | ng    | 98       |
| -----                         |        |      |          |       |       |          |

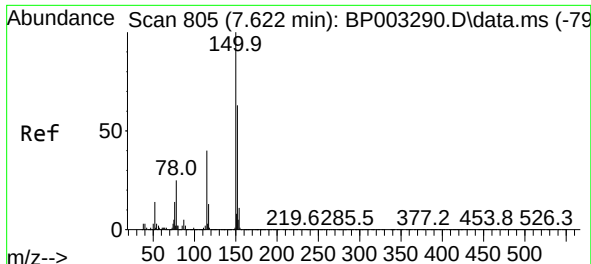
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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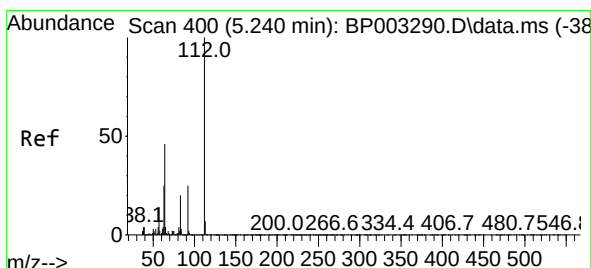
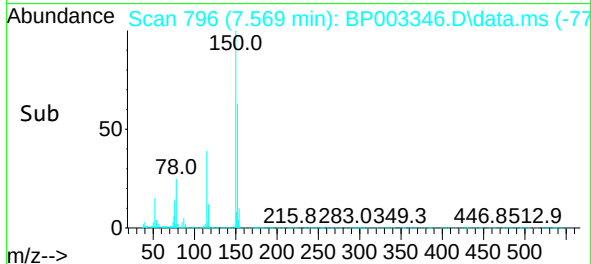
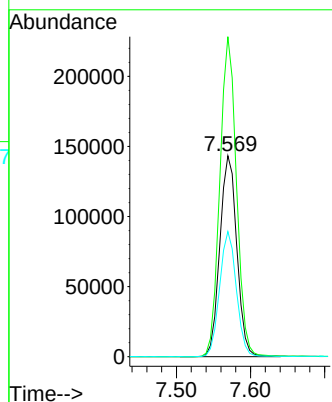
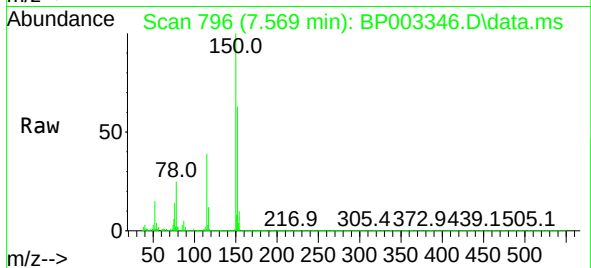




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.569 min Scan# 796  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

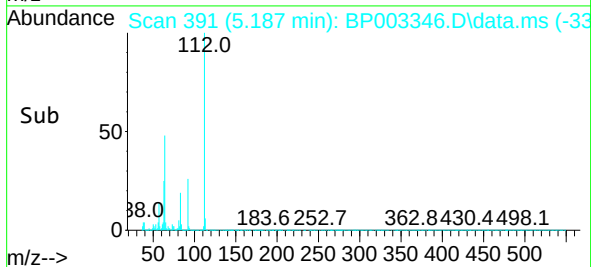
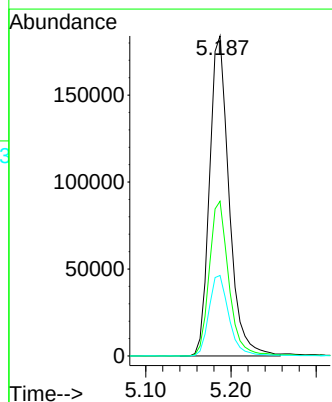
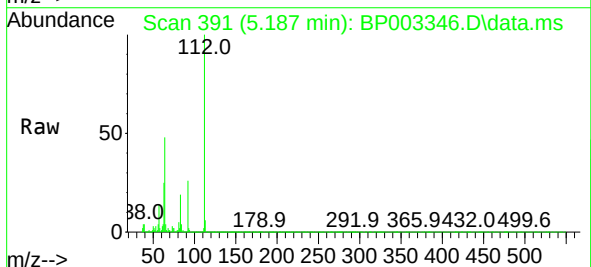
Instrument :  
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ClientSampleId :  
OR-02-091820DL

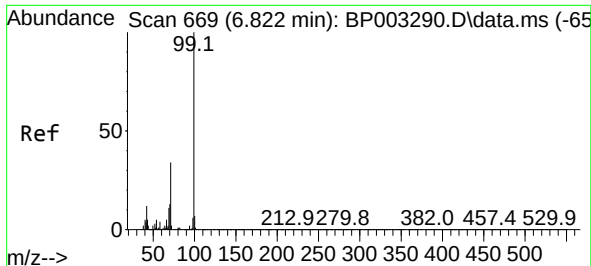
Tgt Ion:152 Resp: 228286  
Ion Ratio Lower Upper  
152 100  
150 159.2 123.8 185.6  
115 62.2 43.8 65.6



#5  
2-Fluorophenol  
Concen: 22.44 ng  
RT: 5.187 min Scan# 391  
Delta R.T. 0.006 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:112 Resp: 293326  
Ion Ratio Lower Upper  
112 100  
64 48.4 32.8 49.2  
63 25.1 17.0 25.4

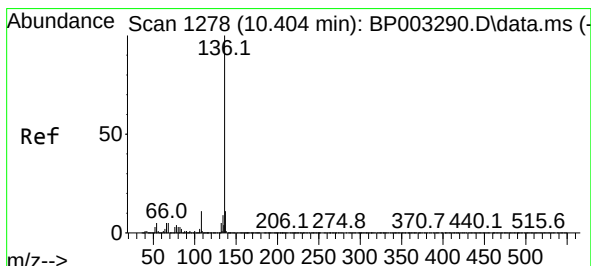
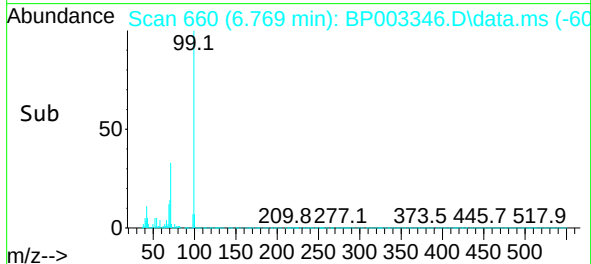
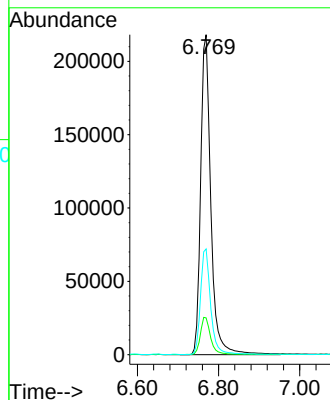
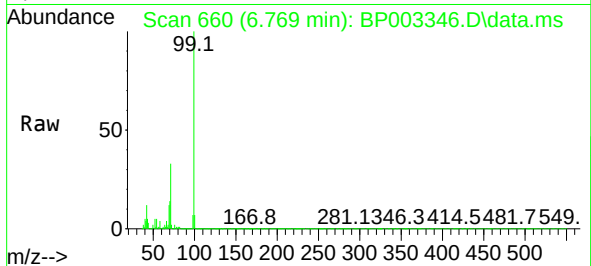




#7  
Phenol-d6  
Concen: 21.84 ng  
RT: 6.769 min Scan# 660  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

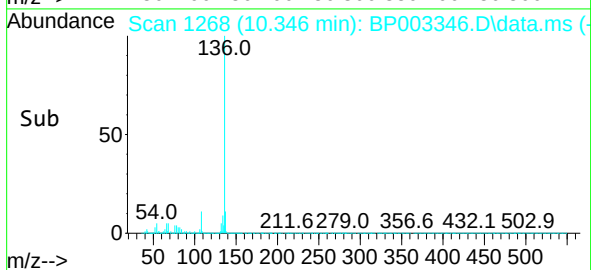
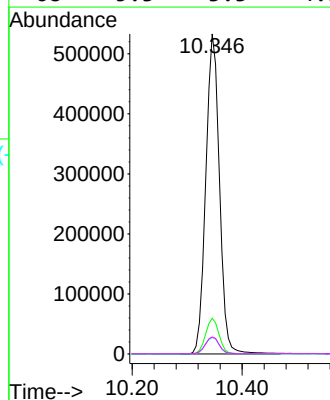
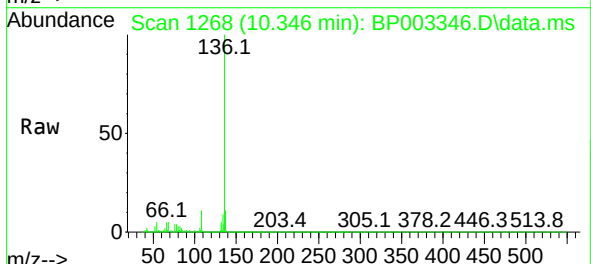
Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

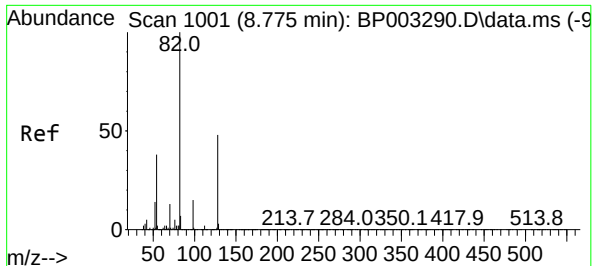
Tgt Ion: 99 Resp: 380648  
Ion Ratio Lower Upper  
99 100  
42 11.5 8.6 13.0  
71 33.1 23.4 35.2



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.346 min Scan# 1268  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:136 Resp: 918794  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.6 13.0  
54 5.1 3.6 5.4  
68 5.3 3.3 4.9#

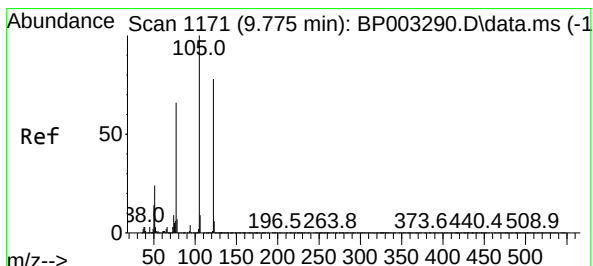
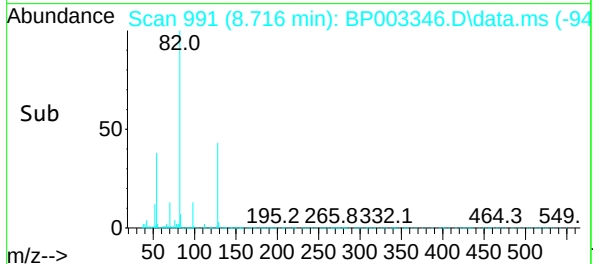
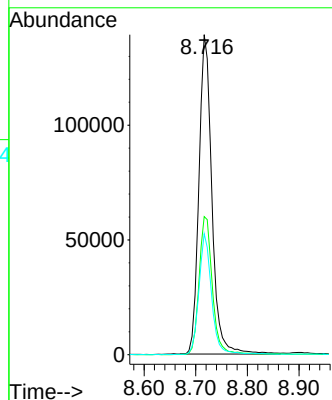
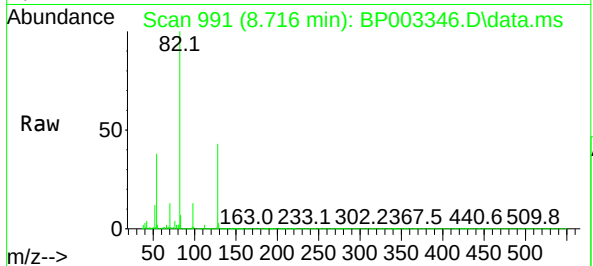




#23  
Nitrobenzene-d5  
Concen: 15.52 ng  
RT: 8.716 min Scan# 991  
Delta R.T. -0.006 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

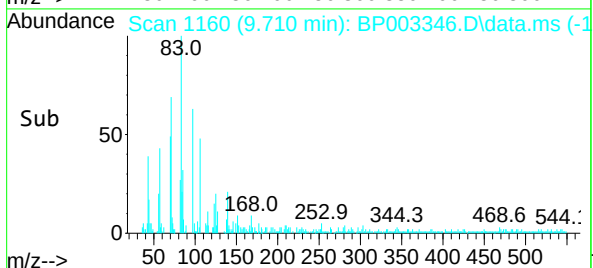
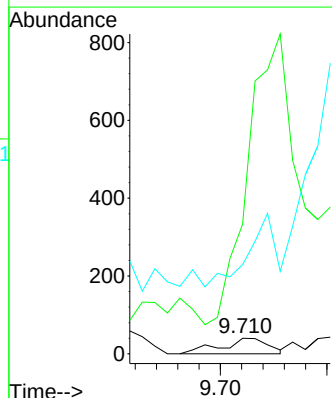
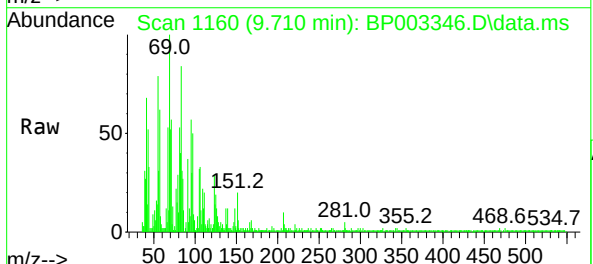
Instrument :  
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ClientSampleId :  
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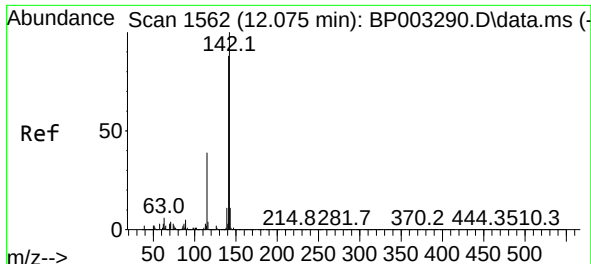
Tgt Ion: 82 Resp: 242735  
Ion Ratio Lower Upper  
82 100  
128 43.2 45.6 68.4#  
54 37.8 30.1 45.1



#32  
Benzoic acid  
Concen: 9.16 ng  
RT: 9.710 min Scan# 1160  
Delta R.T. -0.012 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion: 122 Resp: 62  
Ion Ratio Lower Upper  
122 100  
105 832.5 94.1 134.1#  
77 572.5 50.1 90.1#

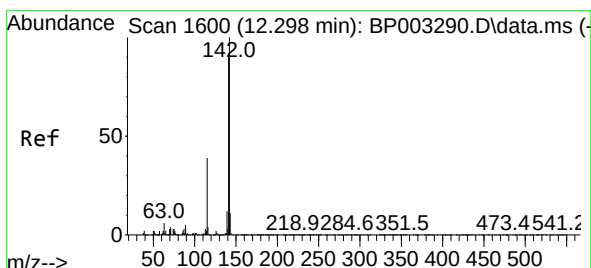
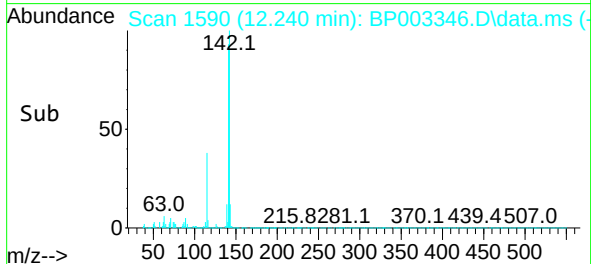
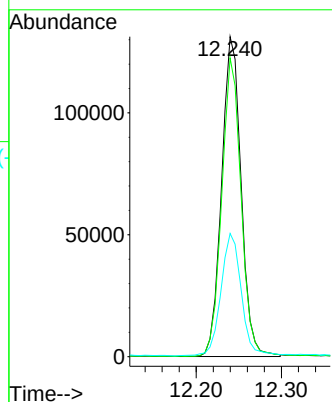
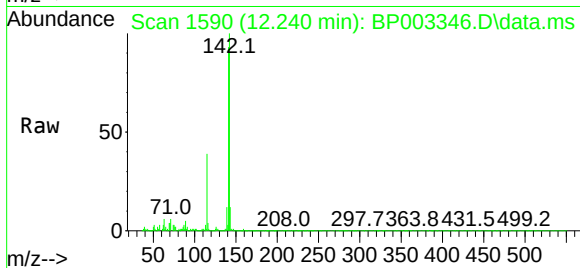




#37  
2-Methylnaphthalene  
Concen: 5.92 ng  
RT: 12.240 min Scan# 1590  
Delta R.T. 0.218 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

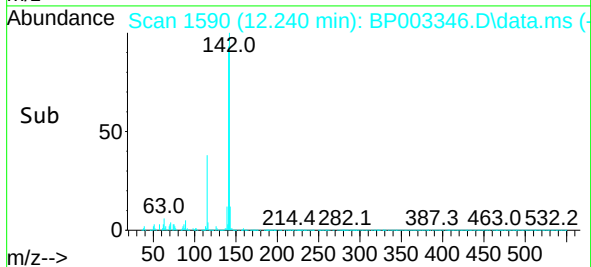
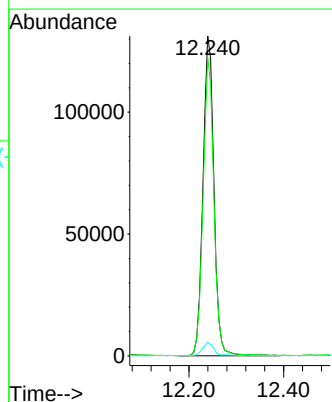
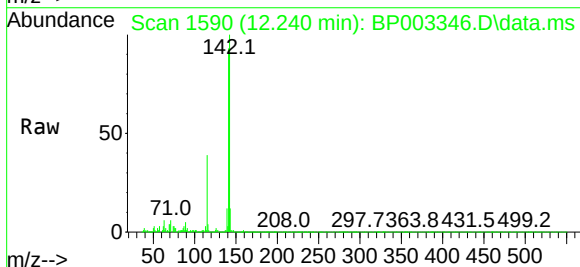
Instrument :  
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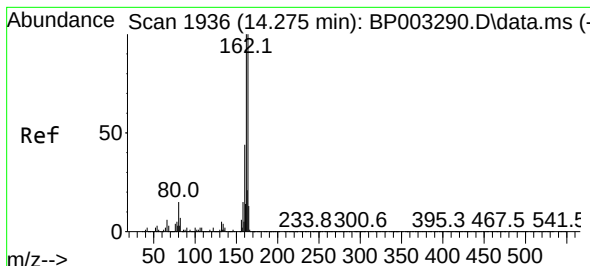
Tgt Ion:142 Resp: 208204  
Ion Ratio Lower Upper  
142 100  
141 93.4 71.4 107.2  
115 38.5 25.8 38.6



#38  
1-Methylnaphthalene  
Concen: 6.29 ng  
RT: 12.240 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:142 Resp: 210007  
Ion Ratio Lower Upper  
142 100  
141 93.4 74.4 111.6  
116 4.3 2.9 4.3#





#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.216 min Scan# 1926

Delta R.T. -0.006 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

Instrument :

BNA\_P

ClientSampleId :

OR-02-091820DL

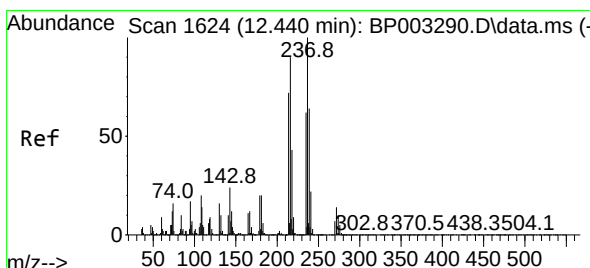
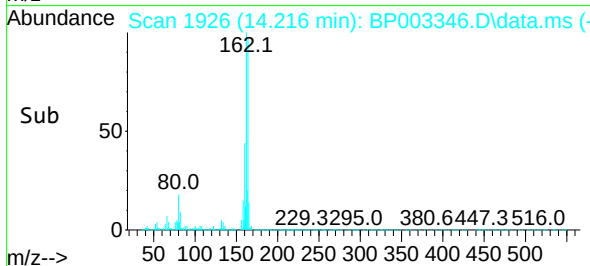
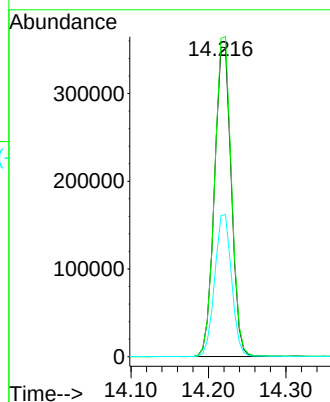
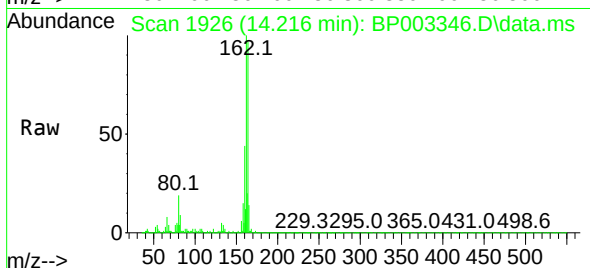
Tgt Ion:164 Resp: 536234

Ion Ratio Lower Upper

164 100

162 102.9 79.4 119.2

160 45.5 36.1 54.1



#41

Hexachlorocyclopentadiene

Concen: 6.84 ng

RT: 12.422 min Scan# 1621

Delta R.T. 0.041 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

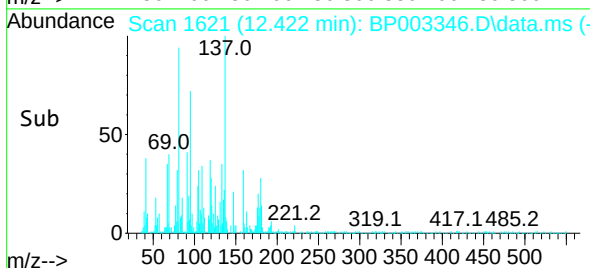
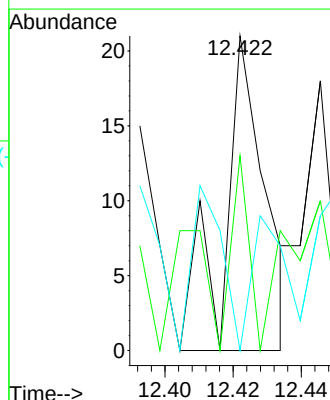
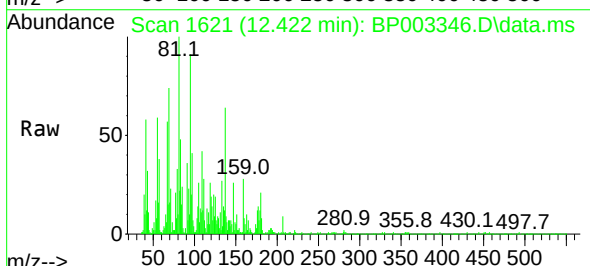
Tgt Ion:237 Resp: 18

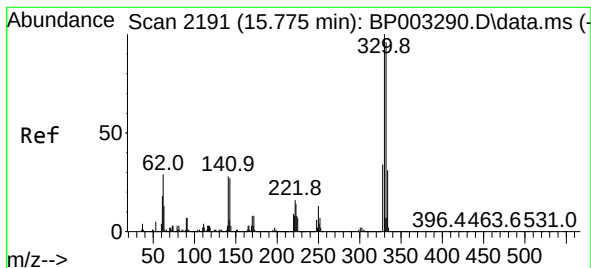
Ion Ratio Lower Upper

237 100

235 61.9 43.2 83.2

272 0.0 0.0 33.3

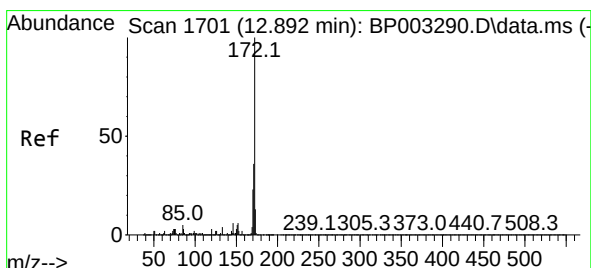
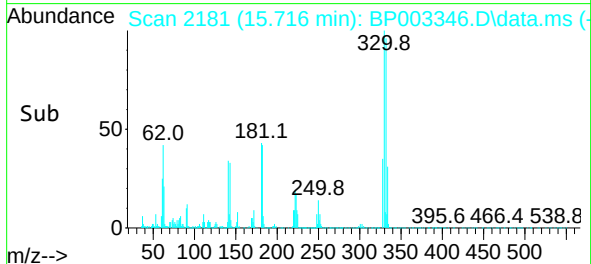
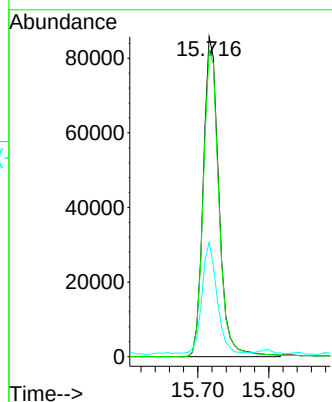
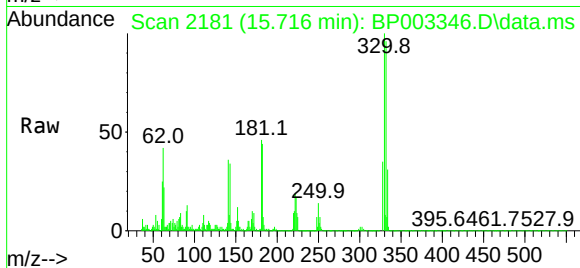




#42  
2,4,6-Tribromophenol  
Concen: 16.07 ng  
RT: 15.716 min Scan# 2181  
Delta R.T. -0.006 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

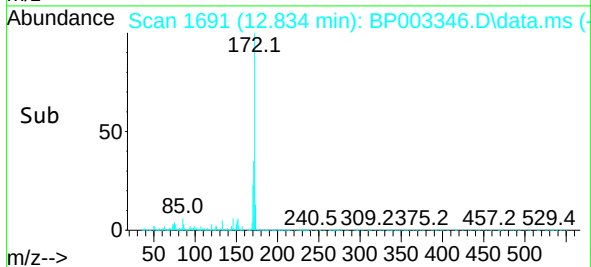
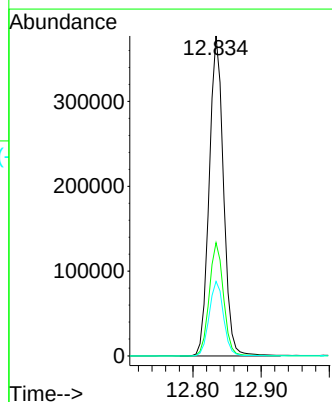
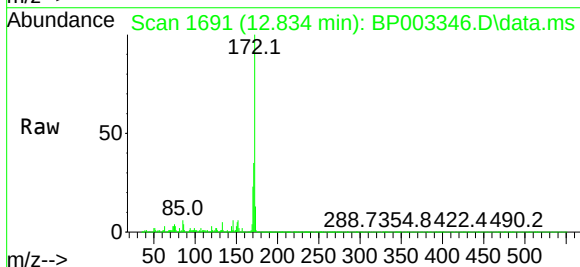
Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

Tgt Ion:330 Resp: 131435  
Ion Ratio Lower Upper  
330 100  
332 96.8 77.1 115.7  
141 34.0 23.4 35.2

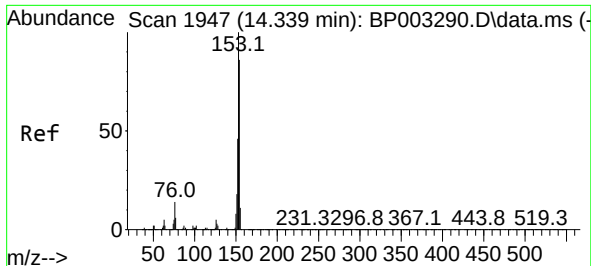


#45  
2-Fluorobiphenyl  
Concen: 15.02 ng  
RT: 12.834 min Scan# 1691  
Delta R.T. -0.006 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:172 Resp: 550826  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.5 42.7  
170 23.3 19.2 28.8



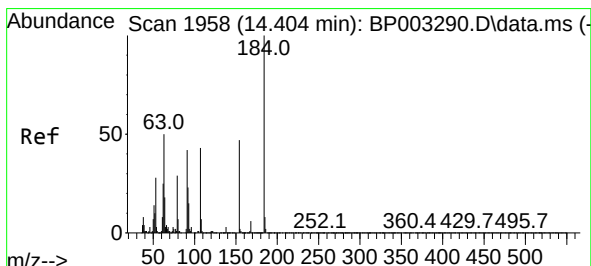
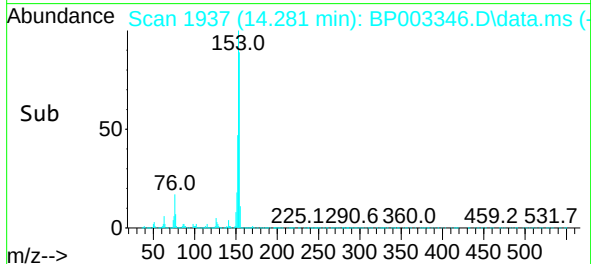
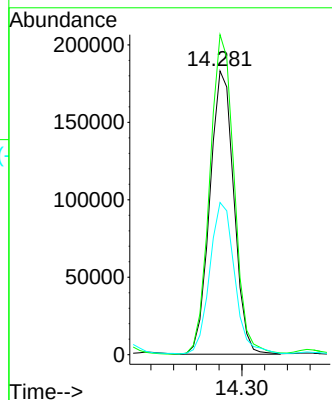
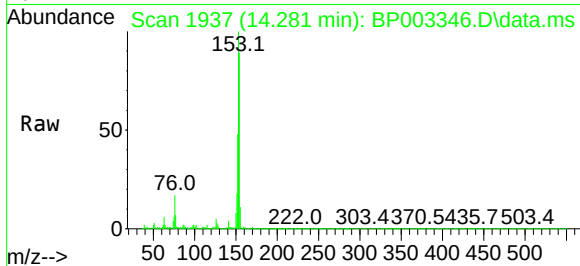




#52  
Acenaphthene  
Concen: 8.70 ng  
RT: 14.281 min Scan# 1937  
Delta R.T. -0.006 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

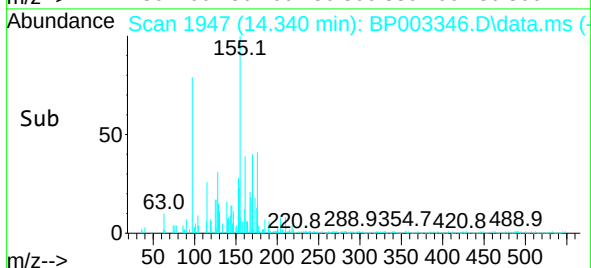
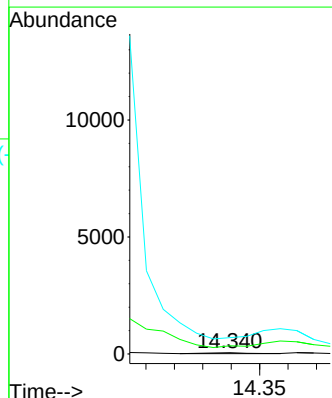
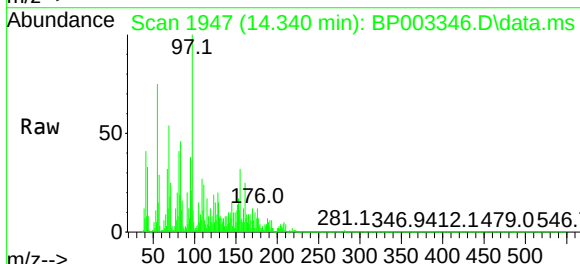
Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

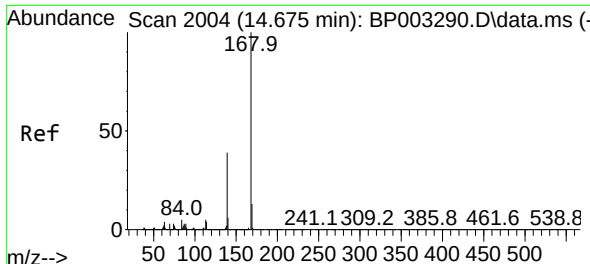
Tgt Ion:154 Resp: 267976  
Ion Ratio Lower Upper  
154 100  
153 112.8 91.0 136.6  
152 53.6 43.0 64.6



#54  
2,4-Dinitrophenol  
Concen: 7.26 ng  
RT: 14.340 min Scan# 1947  
Delta R.T. -0.018 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:184 Resp: 41  
Ion Ratio Lower Upper  
184 100  
63 600.0 32.3 48.5#  
154 1198.3 49.1 73.7#

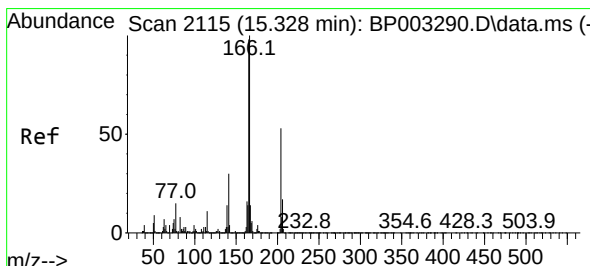
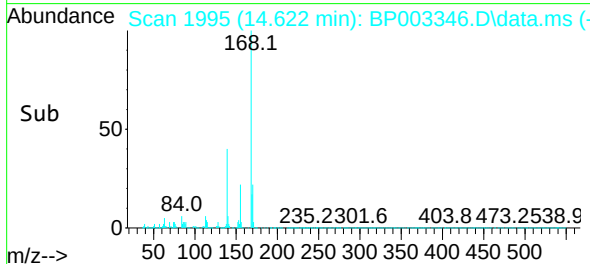
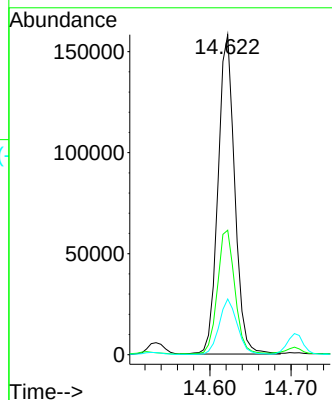
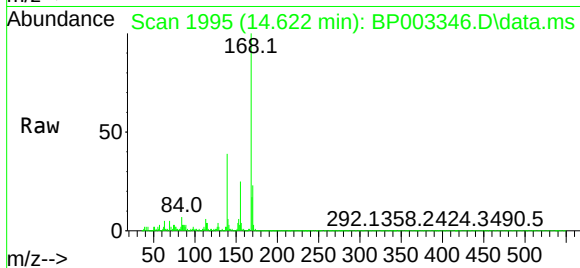




#55  
Dibenzenofuran  
Concen: 4.60 ng  
RT: 14.622 min Scan# 1995  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

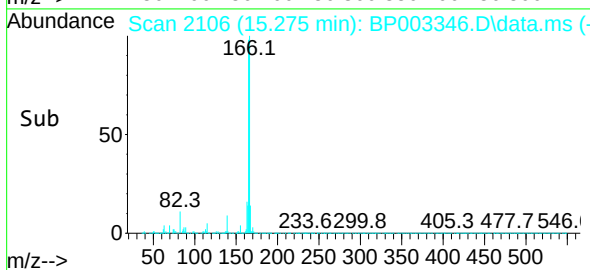
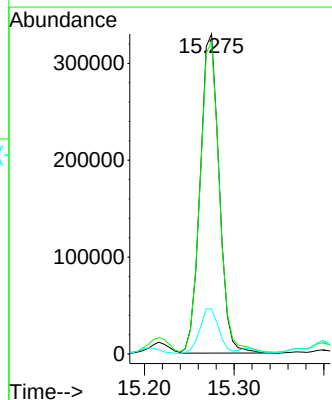
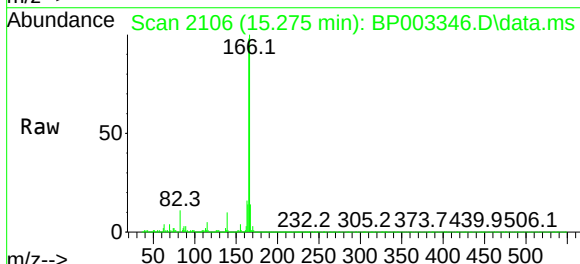
Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

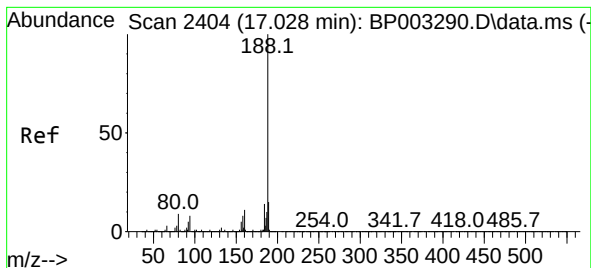
Tgt Ion:168 Resp: 226025  
Ion Ratio Lower Upper  
168 100  
139 38.9 29.1 43.7  
169 17.4 10.4 15.6#



#58  
Fluorene  
Concen: 12.43 ng  
RT: 15.275 min Scan# 2106  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:166 Resp: 482537  
Ion Ratio Lower Upper  
166 100  
165 97.6 77.8 116.8  
167 14.0 11.0 16.4

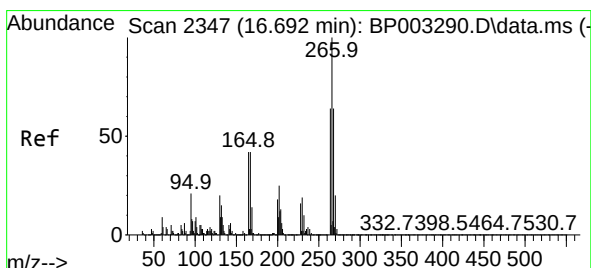
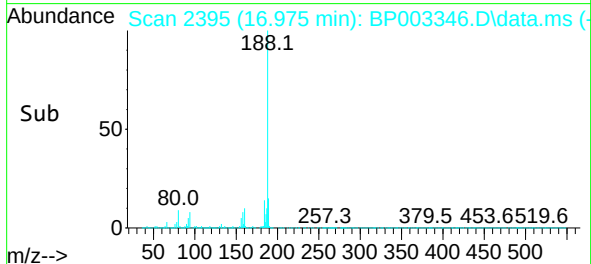
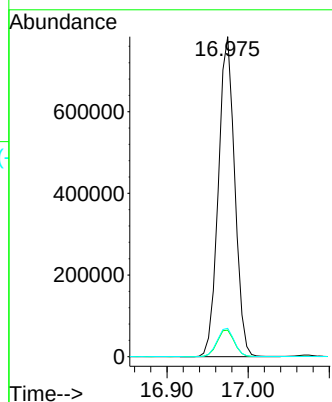
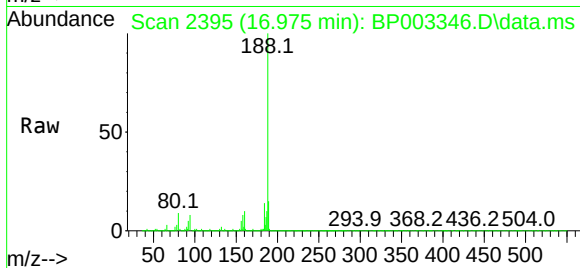




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 16.975 min Scan# 2395  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

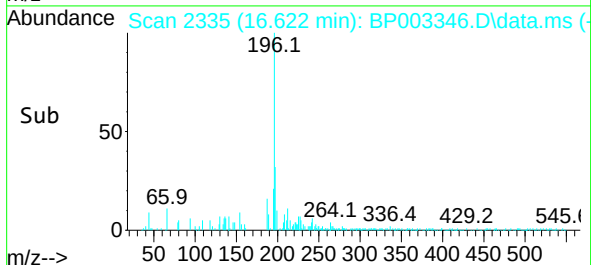
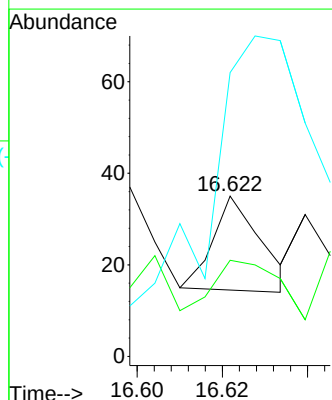
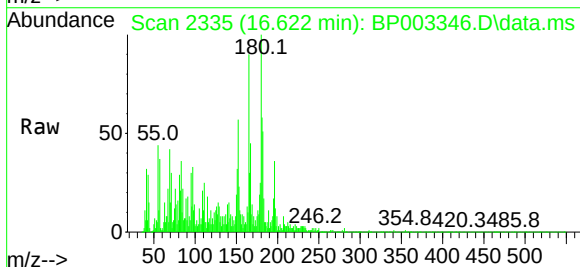
Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

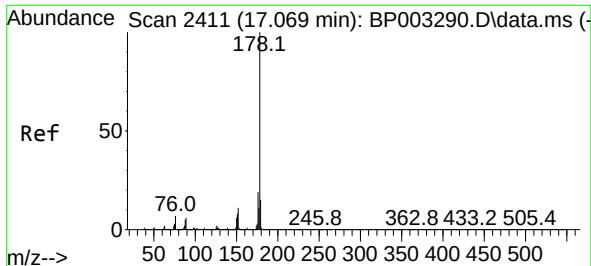
Tgt Ion:188 Resp: 1100788  
Ion Ratio Lower Upper  
188 100  
94 8.3 6.2 9.2  
80 8.9 6.2 9.2



#70  
Pentachlorophenol  
Concen: 6.77 ng  
RT: 16.622 min Scan# 2335  
Delta R.T. -0.018 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:266 Resp: 16  
Ion Ratio Lower Upper  
266 100  
268 60.0 51.1 76.7  
264 177.1 50.6 76.0#

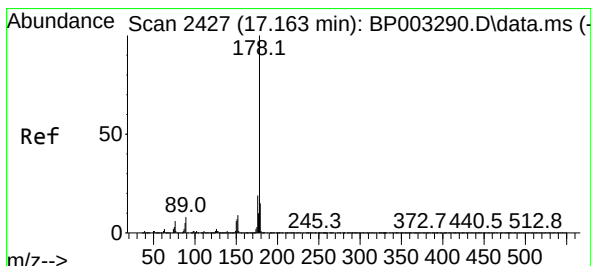
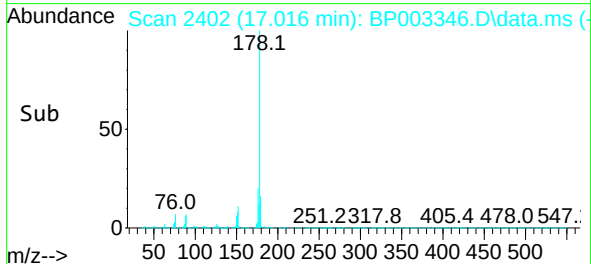
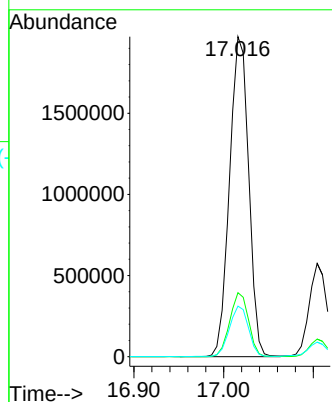
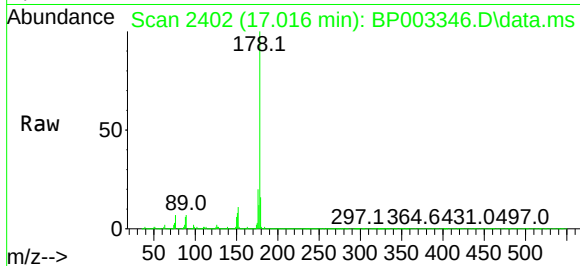




#71  
Phenanthrene  
Concen: 48.70 ng  
RT: 17.016 min Scan# 2402  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

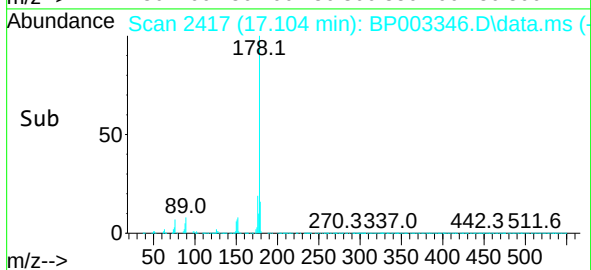
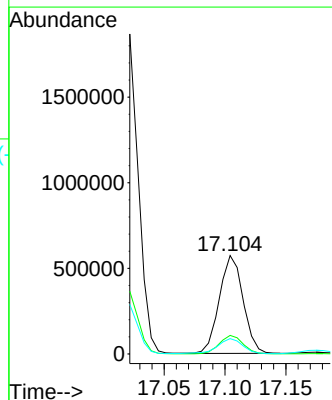
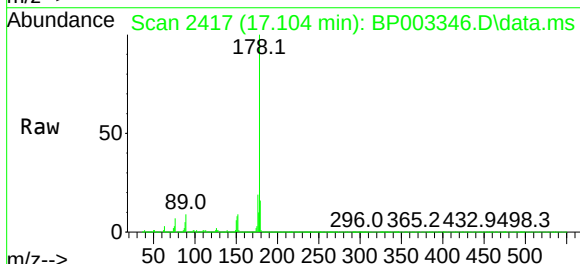
Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

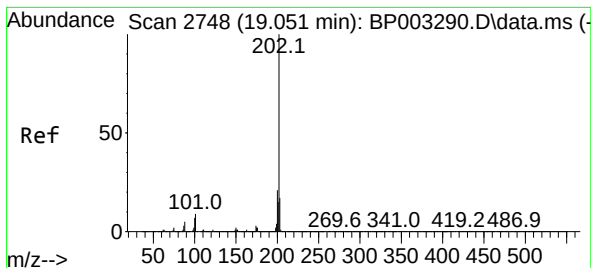
Tgt Ion:178 Resp: 2916540  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.3 22.9  
179 15.8 12.5 18.7



#72  
Anthracene  
Concen: 13.18 ng  
RT: 17.104 min Scan# 2417  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:178 Resp: 777780  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.4  
179 15.7 12.5 18.7

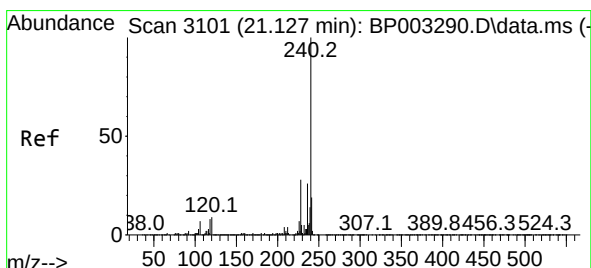
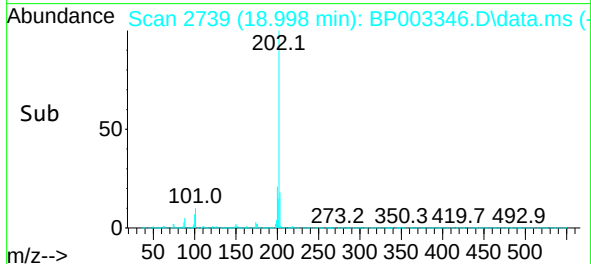
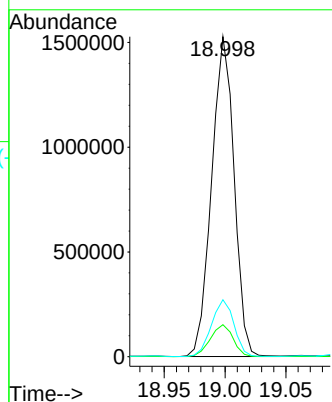
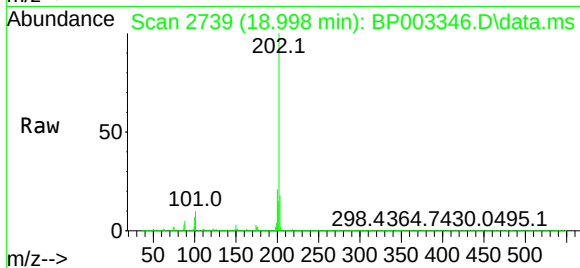




#75  
Fluoranthene  
Concen: 26.03 ng  
RT: 18.998 min Scan# 2739  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

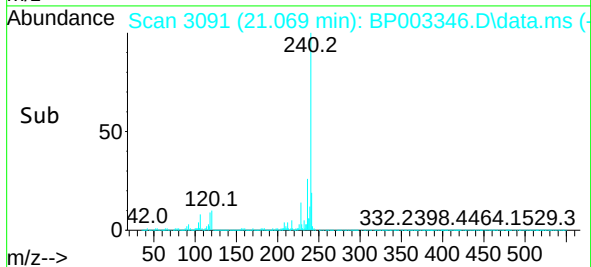
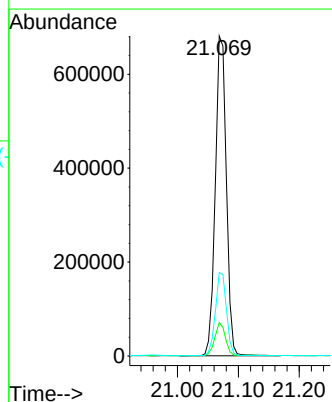
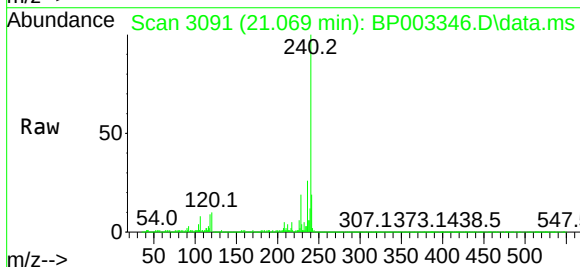
Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

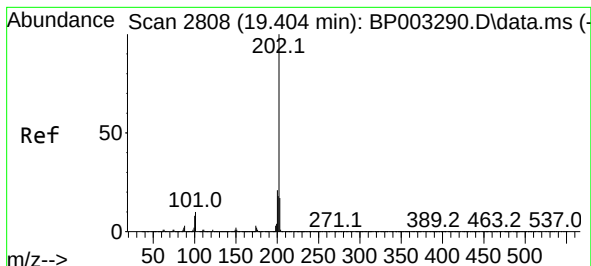
Tgt Ion:202 Resp: 1960442  
Ion Ratio Lower Upper  
202 100  
101 10.0 0.0 29.4  
203 17.8 0.0 37.8



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.069 min Scan# 3091  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:240 Resp: 859382  
Ion Ratio Lower Upper  
240 100  
120 10.4 7.8 11.6  
236 26.1 20.8 31.2





#78

Pyrene

Concen: 31.39 ng

RT: 19.351 min Scan# 2799

Delta R.T. 0.000 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

Instrument :

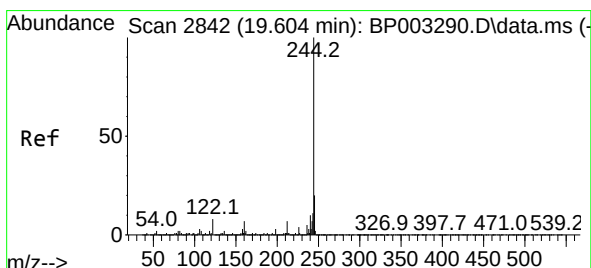
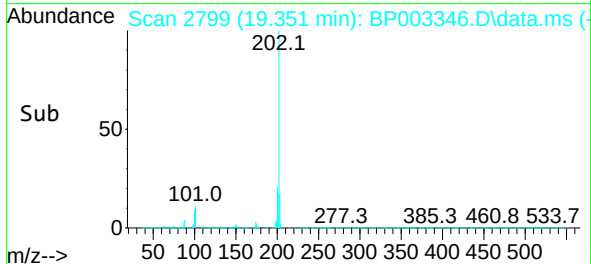
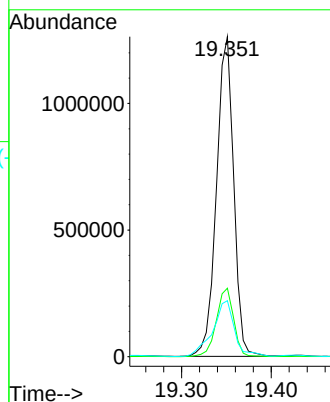
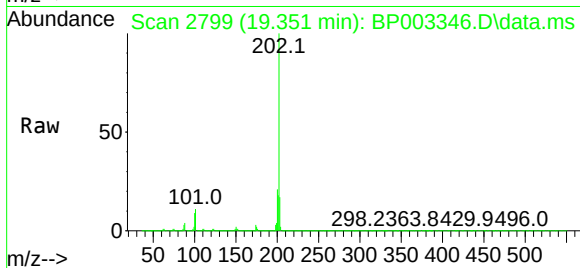
BNA\_P

ClientSampleId :

OR-02-091820DL

Tgt Ion:202 Resp: 1682339

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.4  | 17.1  | 25.7  |
| 203 | 17.5  | 14.2  | 21.2  |



#79

Terphenyl-d14

Concen: 16.12 ng

RT: 19.551 min Scan# 2833

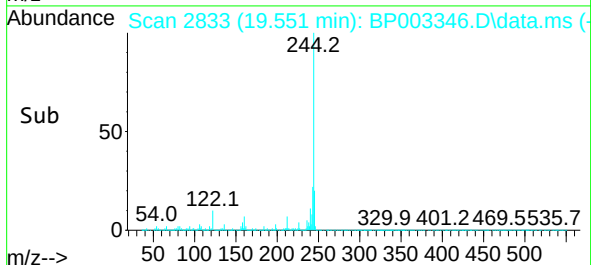
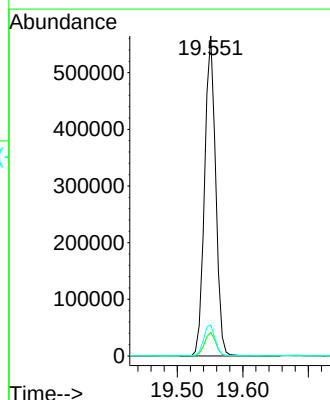
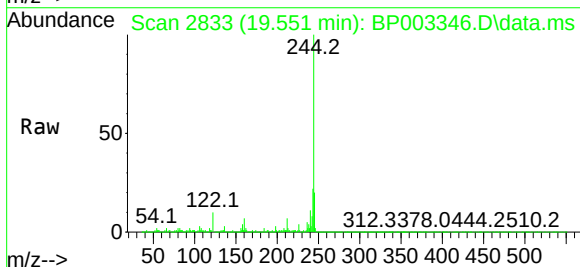
Delta R.T. 0.000 min

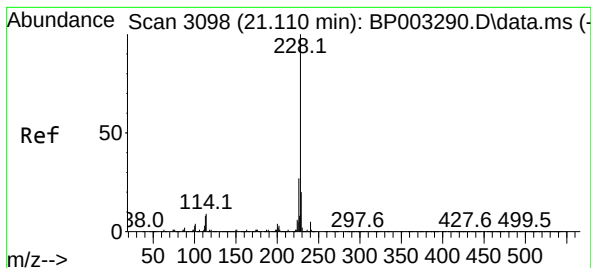
Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

Tgt Ion:244 Resp: 664707

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.3   | 5.8   | 8.6   |
| 122 | 9.7   | 7.8   | 11.8  |





#81

Benzo(a)anthracene

Concen: 8.73 ng

RT: 21.057 min Scan# 3089

Delta R.T. 0.000 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

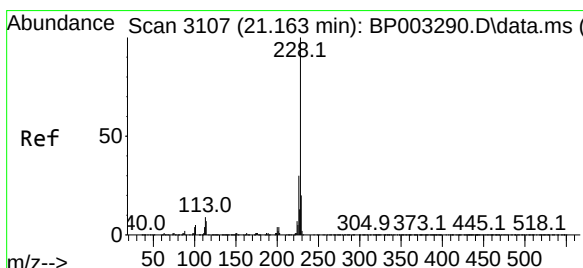
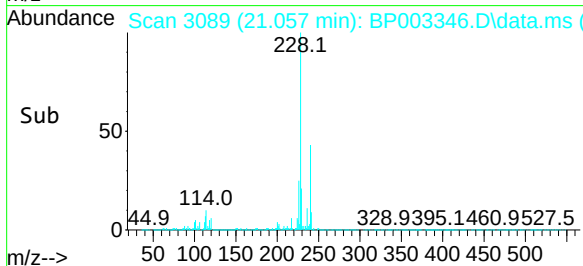
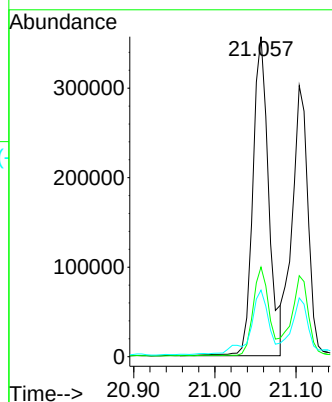
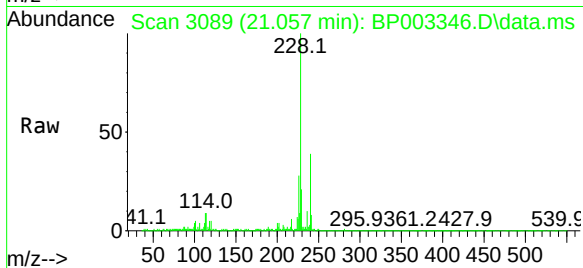
Instrument :

BNA\_P

ClientSampleId :

OR-02-091820DL

|             |              |       |      |
|-------------|--------------|-------|------|
| Tgt Ion:228 | Resp: 485229 |       |      |
| Ion Ratio   | Lower        | Upper |      |
| 228         | 100          |       |      |
| 226         | 28.0         | 22.1  | 33.1 |
| 229         | 20.8         | 15.9  | 23.9 |



#83

Chrysene

Concen: 7.64 ng

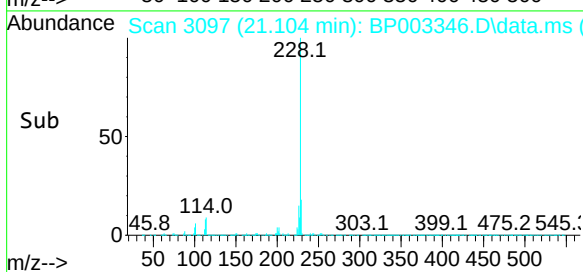
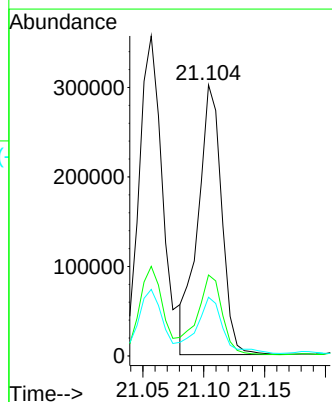
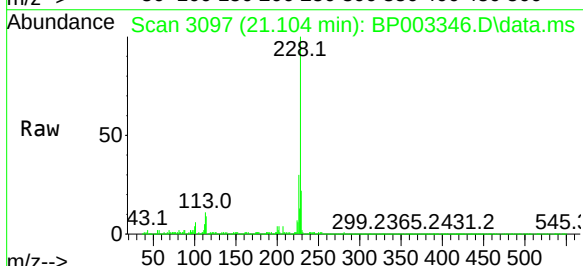
RT: 21.104 min Scan# 3097

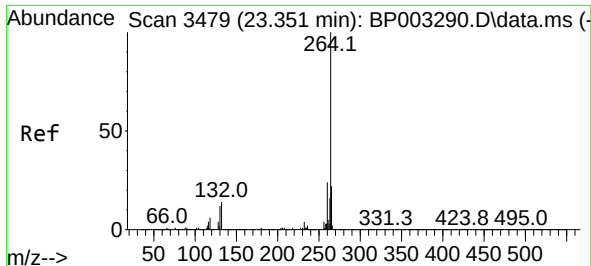
Delta R.T. 0.000 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

|             |              |       |  |
|-------------|--------------|-------|--|
| Tgt Ion:228 | Resp: 407787 |       |  |
| Ion Ratio   | Lower        | Upper |  |
| 228 100     |              |       |  |
| 226 29.9    | 24.4         | 36.6  |  |
| 229 21.7    | 15.8         | 23.6  |  |



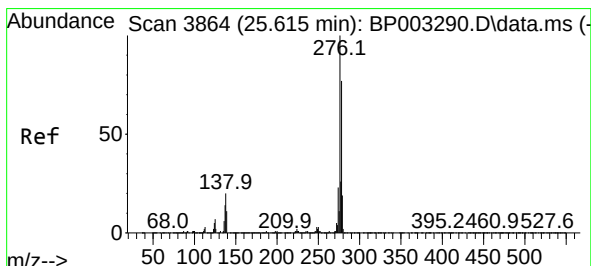
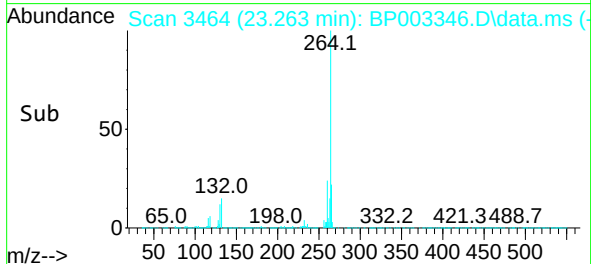
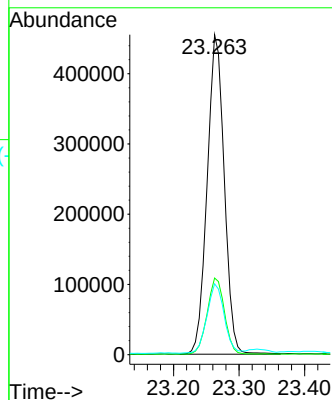
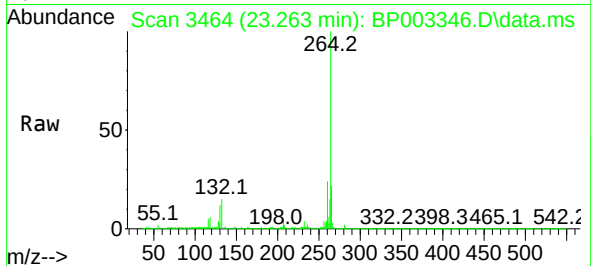


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.263 min Scan# 3464  
Delta R.T. 0.000 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Instrument :  
BNA\_P  
ClientSampleId :  
OR-02-091820DL

Tgt Ion:264 Resp: 826043  

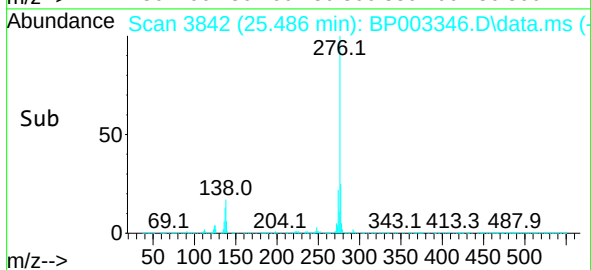
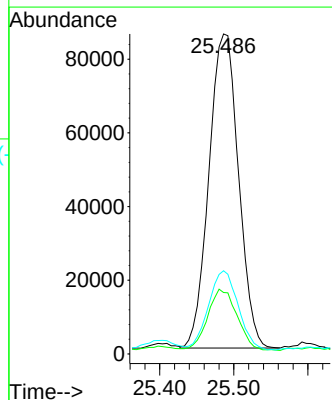
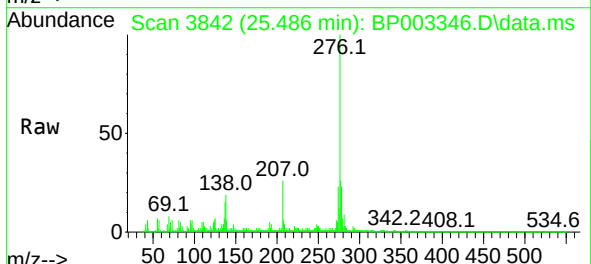
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.0  | 18.8  | 28.2  |
| 265 | 22.1  | 17.4  | 26.2  |



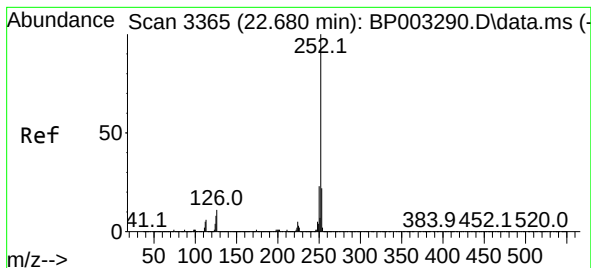
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.78 ng  
RT: 25.486 min Scan# 3842  
Delta R.T. -0.006 min  
Lab File: BP003346.D  
Acq: 22 Sep 2020 19:11

Tgt Ion:276 Resp: 236670  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 19.4  | 18.7  | 28.1  |
| 277 | 25.4  | 20.4  | 30.6  |







#88

Benzo(b)fluoranthene

Concen: 8.94 ng

RT: 22.610 min Scan# 3353

Delta R.T. 0.006 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

Instrument :

BNA\_P

ClientSampleId :

OR-02-091820DL

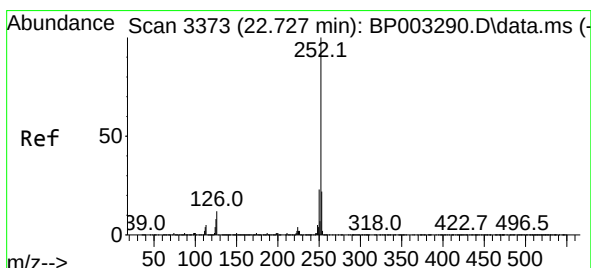
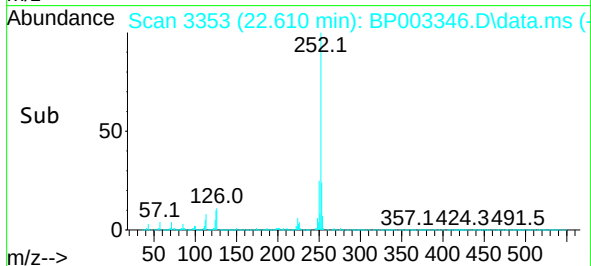
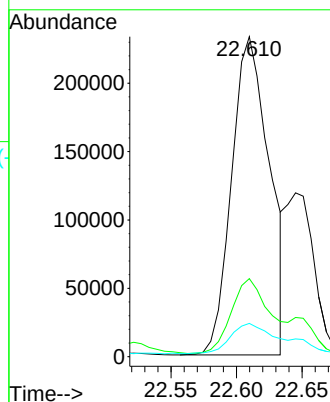
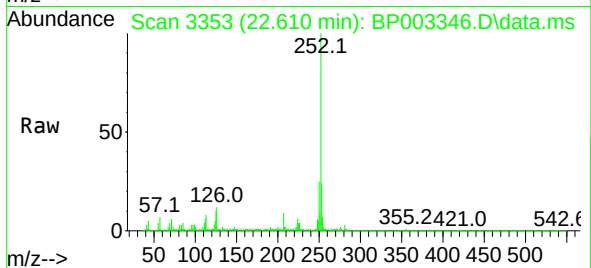
Tgt Ion:252 Resp: 466375

Ion Ratio Lower Upper

252 100

253 24.4 17.6 26.4

125 10.4 7.3 10.9



#89

Benzo(k)fluoranthene

Concen: 9.33 ng

RT: 22.610 min Scan# 3353

Delta R.T. -0.041 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

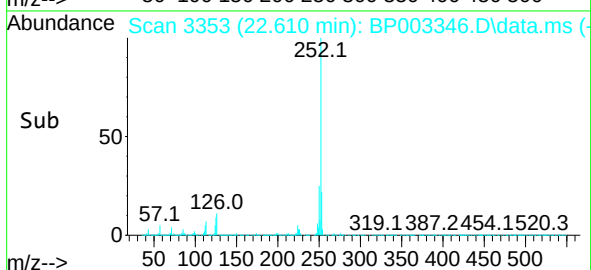
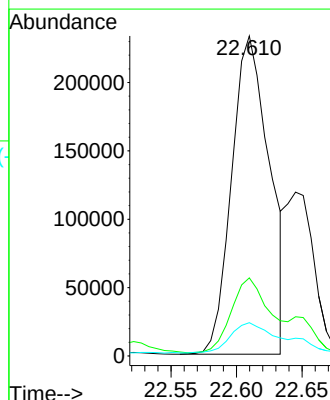
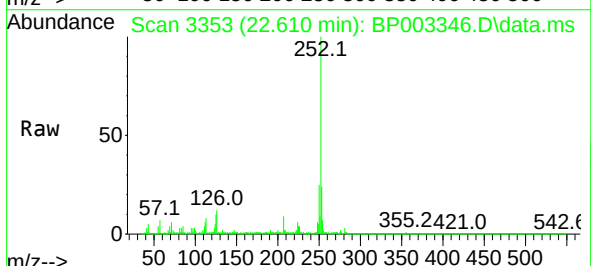
Tgt Ion:252 Resp: 466375

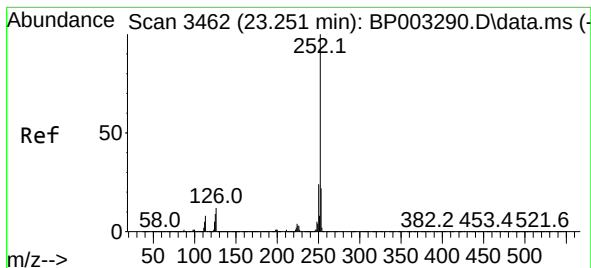
Ion Ratio Lower Upper

252 100

253 24.4 17.8 26.8

125 10.4 7.4 11.2





#90

Benzo(a)pyrene

Concen: 7.22 ng

RT: 23.169 min Scan# 3448

Delta R.T. 0.000 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

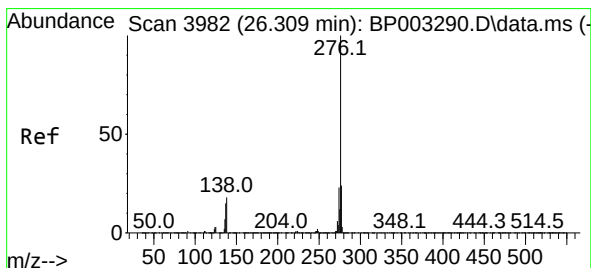
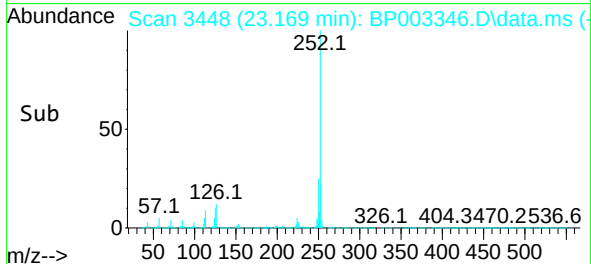
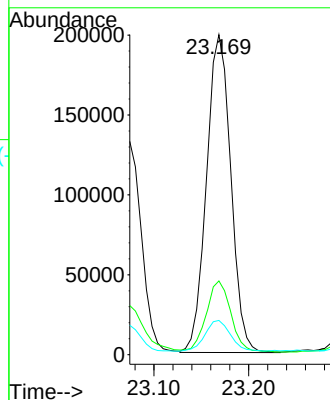
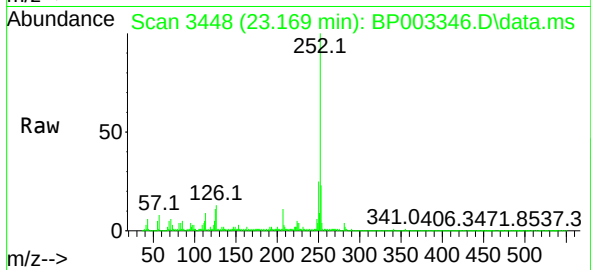
Instrument :

BNA\_P

ClientSampleId :

OR-02-091820DL

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 355196    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.0  | 17.4 26.0 |
| 125         | 10.7  | 8.2 12.4  |



#92

Benzo(g,h,i)perylene

Concen: 4.59 ng

RT: 26.168 min Scan# 3958

Delta R.T. 0.006 min

Lab File: BP003346.D

Acq: 22 Sep 2020 19:11

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:276 | Resp: | 236672    |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 277         | 25.0  | 19.0 28.6 |
| 138         | 20.3  | 16.6 24.8 |

