

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP093020\  
 Data File : BP003428.D  
 Acq On : 30 Sep 2020 23:27  
 Operator : CG/JU  
 Sample : L4172DL 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 B-6(7-9)DL

Quant Time: Oct 01 02:19:02 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 30 17:14:02 2020  
 Response via : Initial Calibration

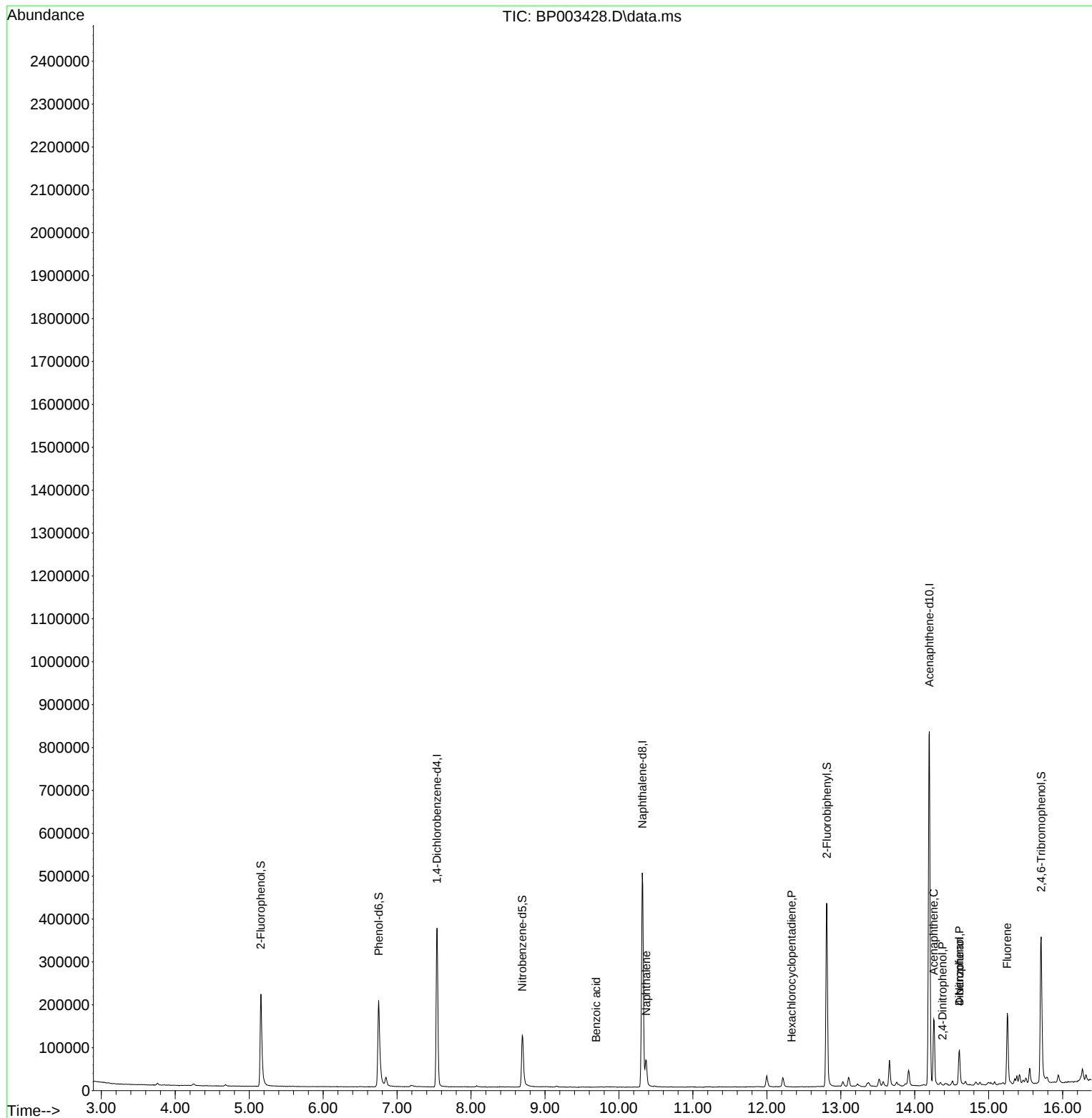
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.540  | 152  | 103801   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.316 | 136  | 444890   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.198 | 164  | 287976   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 16.957 | 188  | 659508   | 20.00 | ng    | # 0.01   |
| 76) Chrysene-d12              | 21.145 | 240  | 627309   | 20.00 | ng    | 0.08     |
| 86) Perylene-d12              | 23.580 | 264  | 432921   | 20.00 | ng    | 0.32     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.158  | 112  | 121152   | 20.38 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.752  | 99   | 159565   | 20.14 | ng    | 0.01     |
| 23) Nitrobenzene-d5           | 8.693  | 82   | 93482    | 12.34 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.710 | 330  | 68098    | 15.50 | ng    | 0.02     |
| 45) 2-Fluorobiphenyl          | 12.810 | 172  | 229275   | 11.64 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.563 | 244  | 336853   | 11.19 | ng    | 0.03     |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 31) Naphthalene               | 10.369 | 128  | 49701    | 2.11  | ng    | 98       |
| 32) Benzoic acid              | 9.693  | 122  | 27       | 9.16  | ng    | # 1      |
| 41) Hexachlorocyclopentadiene | 12.334 | 237  | 12       | 6.84  | ng    | 85       |
| 52) Acenaphthene              | 14.257 | 154  | 56282    | 3.40  | ng    | 98       |
| 54) 2,4-Dinitrophenol         | 14.375 | 184  | 22       | 7.26  | ng    | # 1      |
| 55) Dibenzofuran              | 14.604 | 168  | 56650    | 2.15  | ng    | 95       |
| 56) 4-Nitrophenol             | 14.604 | 139  | 21888    | 6.70  | ng    | # 21     |
| 58) Fluorene                  | 15.251 | 166  | 75207    | 3.61  | ng    | 99       |
| 70) Pentachlorophenol         | 16.633 | 266  | 31       | 6.78  | ng    | 90       |
| 71) Phenanthrene              | 17.004 | 178  | 1002727  | 27.94 | ng    | 99       |
| 72) Anthracene                | 17.092 | 178  | 259382   | 7.33  | ng    | 99       |
| 73) Carbazole                 | 17.381 | 167  | 135975   | 4.05  | ng    | 99       |
| 75) Fluoranthene              | 19.010 | 202  | 1416051  | 31.39 | ng    | 99       |
| 78) Pyrene                    | 19.363 | 202  | 1128253  | 28.84 | ng    | 100      |
| 81) Benzo(a)anthracene        | 21.127 | 228  | 625468   | 15.42 | ng    | # 94     |
| 83) Chrysene                  | 21.127 | 228  | 625468   | 16.05 | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 22.845 | 252  | 947471   | 34.66 | ng    | # 94     |
| 89) Benzo(k)fluoranthene      | 22.845 | 252  | 947471   | 36.16 | ng    | # 94     |
| 90) Benzo(a)pyrene            | 23.463 | 252  | 819011   | 31.77 | ng    | # 85     |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP093020\  
Data File : BP003428.D  
Acq On : 30 Sep 2020 23:27  
Operator : CG/JU  
Sample : L4172DL 5X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

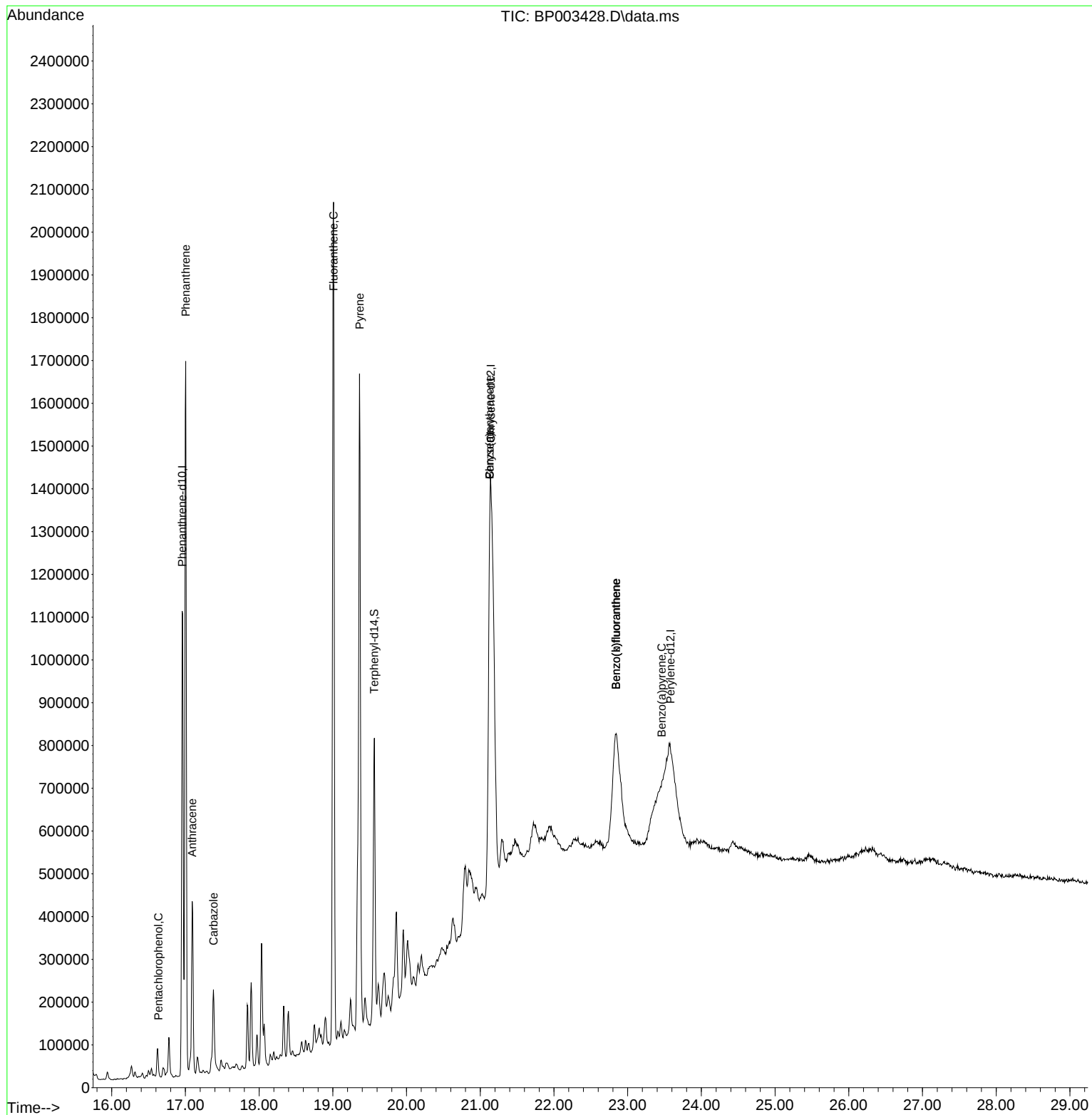
Quant Time: Oct 01 02:19:02 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 30 17:14:02 2020  
Response via : Initial Calibration

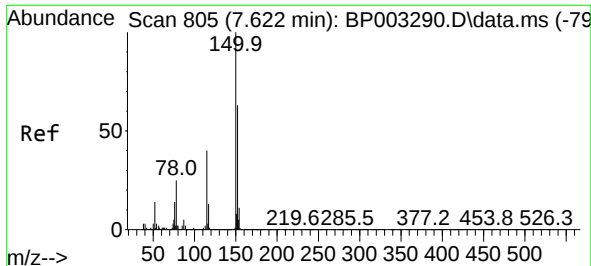


Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP093020\  
Data File : BP003428.D  
Acq On : 30 Sep 2020 23:27  
Operator : CG/JU  
Sample : L4172DL 5X  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

Quant Time: Oct 01 02:19:02 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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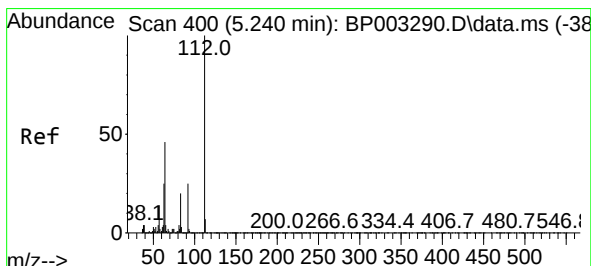
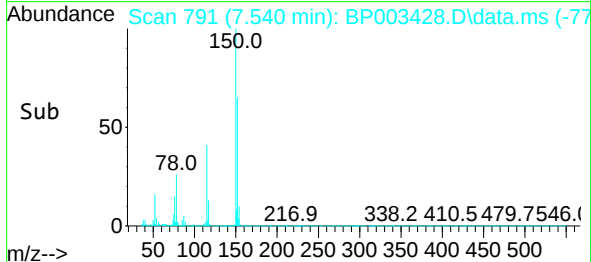
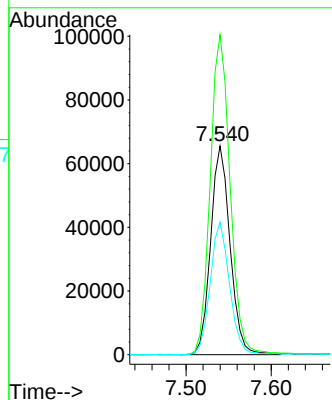
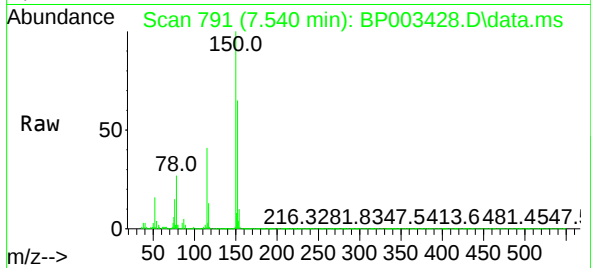




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.540 min Scan# 791  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

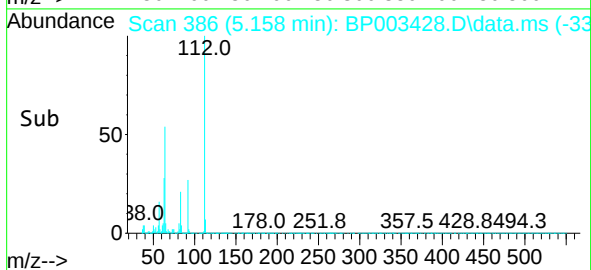
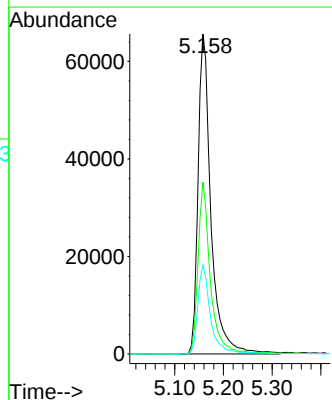
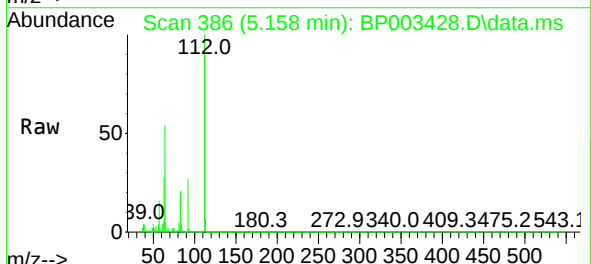
Instrument :  
BNA\_P  
ClientSampleID :  
B-6(7-9)DL

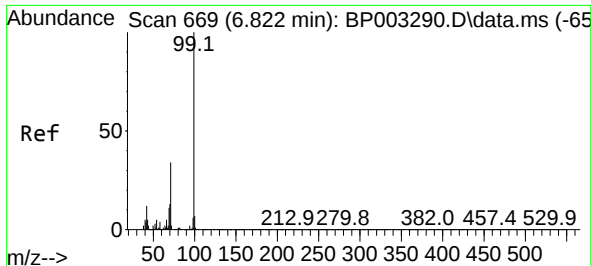
Tgt Ion:152 Resp: 103801  
Ion Ratio Lower Upper  
152 100  
150 153.4 123.8 185.6  
115 63.5 43.8 65.6



#5  
2-Fluorophenol  
Concen: 20.38 ng  
RT: 5.158 min Scan# 386  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:112 Resp: 121152  
Ion Ratio Lower Upper  
112 100  
64 53.7 32.8 49.2#  
63 27.8 17.0 25.4#

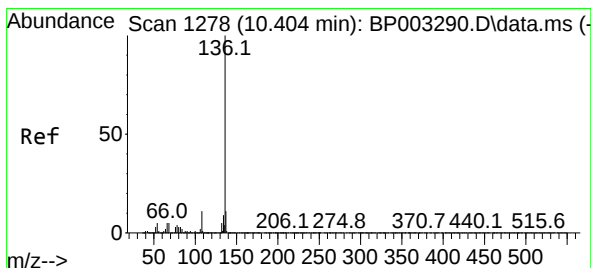
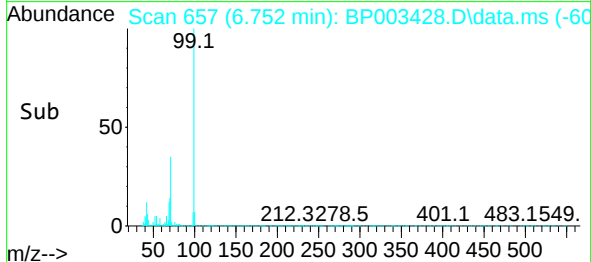
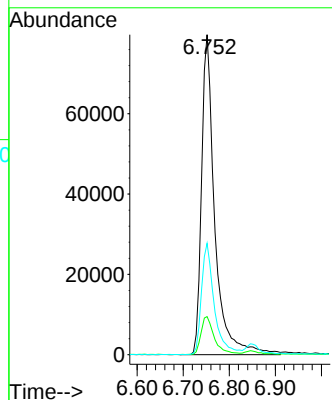
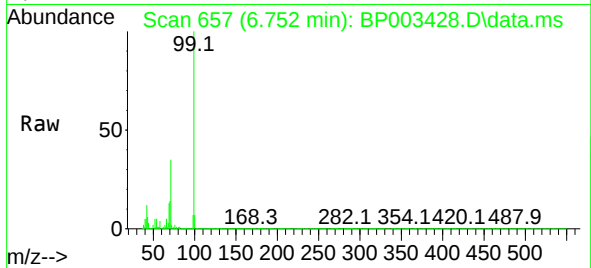




#7  
Phenol-d6  
Concen: 20.14 ng  
RT: 6.752 min Scan# 657  
Delta R.T. 0.012 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

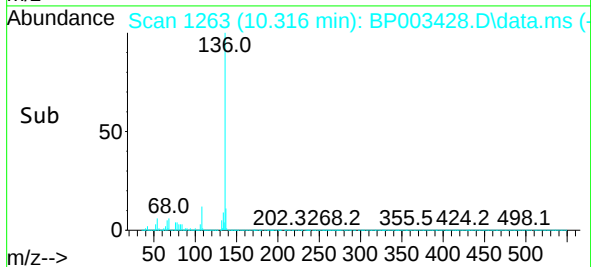
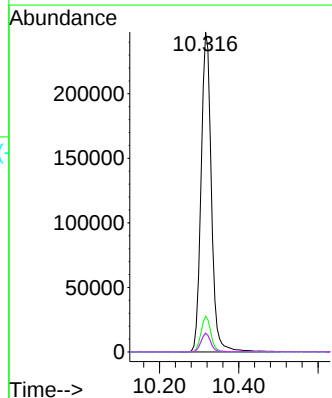
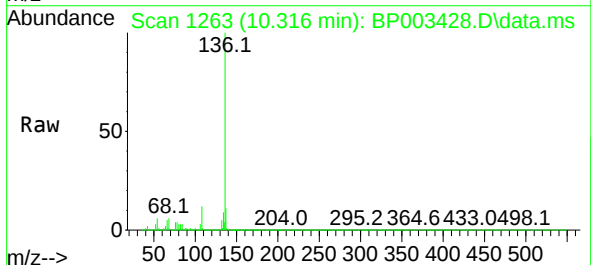
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

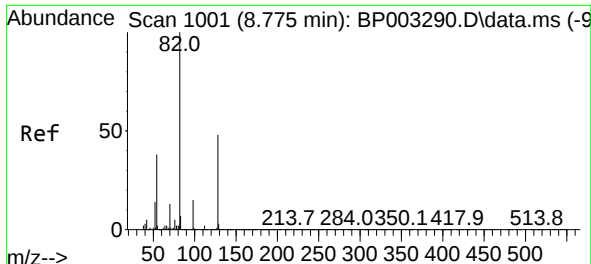
Tgt Ion: 99 Resp: 159565  
Ion Ratio Lower Upper  
99 100  
42 11.9 8.6 13.0  
71 34.8 23.4 35.2



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.316 min Scan# 1263  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion: 136 Resp: 444890  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.6 13.0  
54 5.6 3.6 5.4#  
68 5.9 3.3 4.9#

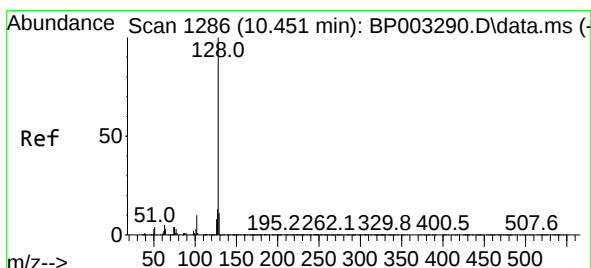
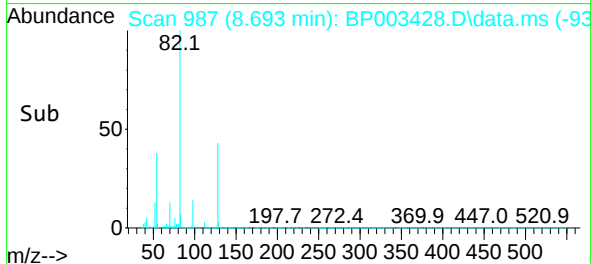
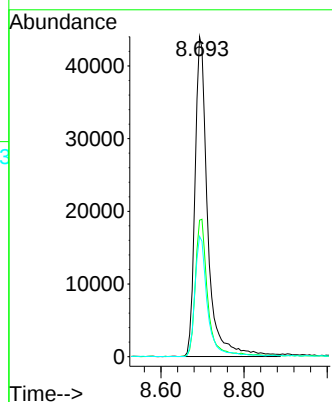
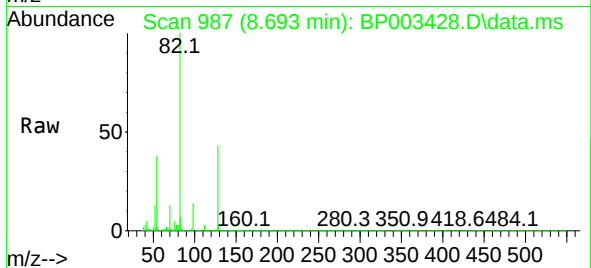




#23  
Nitrobenzene-d5  
Concen: 12.34 ng  
RT: 8.693 min Scan# 987  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

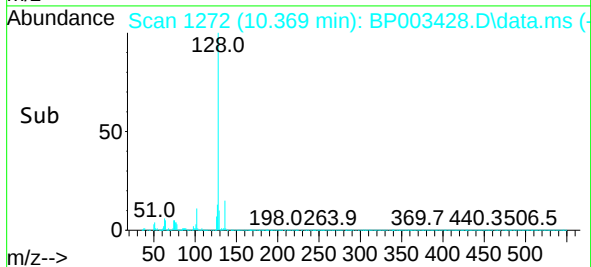
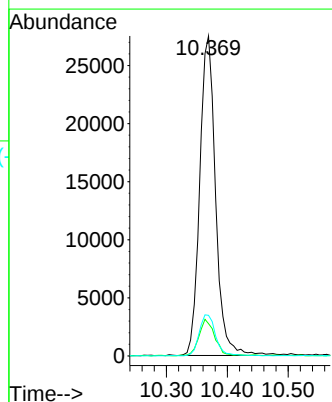
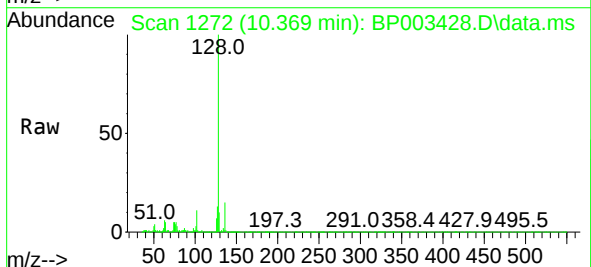
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

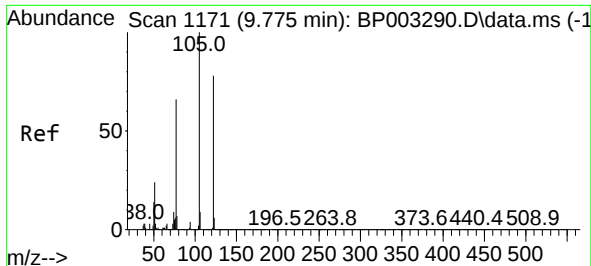
Tgt Ion: 82 Resp: 93482  
Ion Ratio Lower Upper  
82 100  
128 42.6 45.6 68.4#  
54 37.6 30.1 45.1



#31  
Naphthalene  
Concen: 2.11 ng  
RT: 10.369 min Scan# 1272  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion: 128 Resp: 49701  
Ion Ratio Lower Upper  
128 100  
129 10.1 8.8 13.2  
127 12.7 10.6 15.8

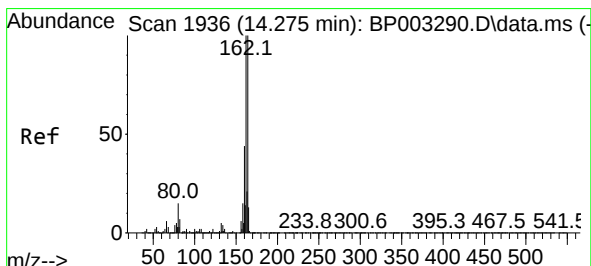
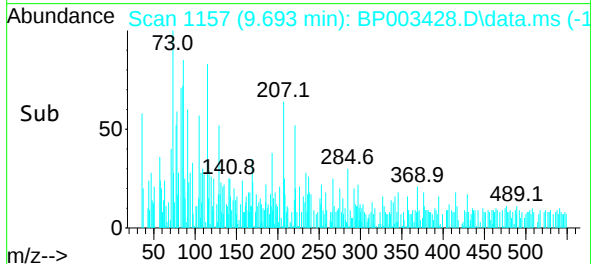
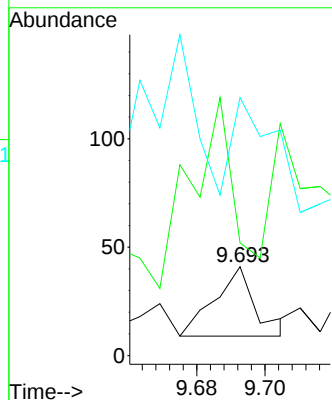
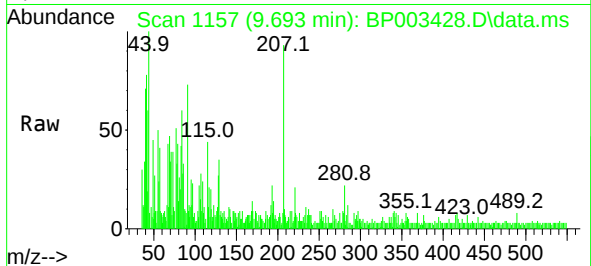




#32  
Benzoic acid  
Concen: 9.16 ng  
RT: 9.693 min Scan# 1157  
Delta R.T. -0.024 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

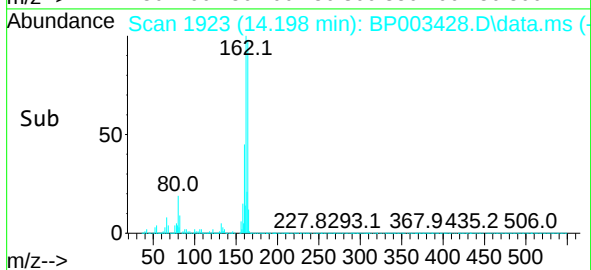
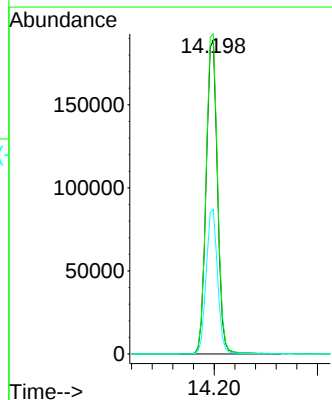
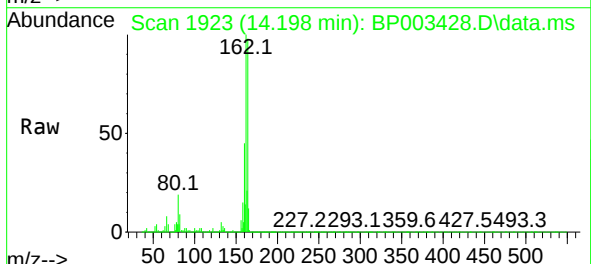
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

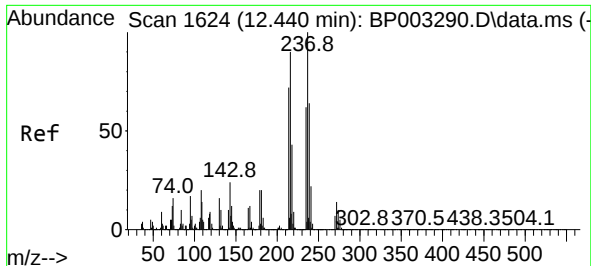
Tgt Ion:122 Resp: 27  
Ion Ratio Lower Upper  
122 100  
105 126.8 94.1 134.1  
77 290.2 50.1 90.1#



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.198 min Scan# 1923  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:164 Resp: 287976  
Ion Ratio Lower Upper  
164 100  
162 102.2 79.4 119.2  
160 46.1 36.1 54.1

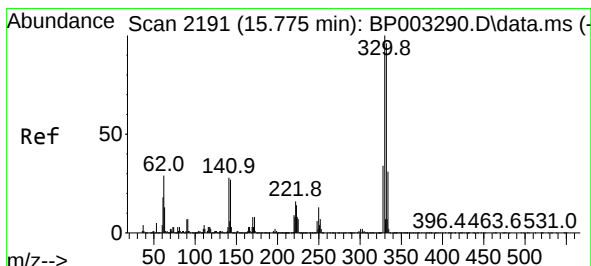
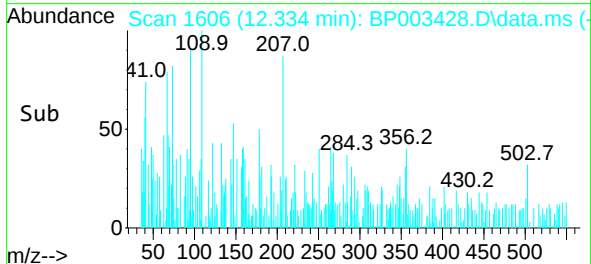
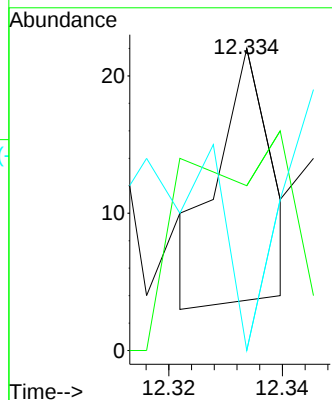
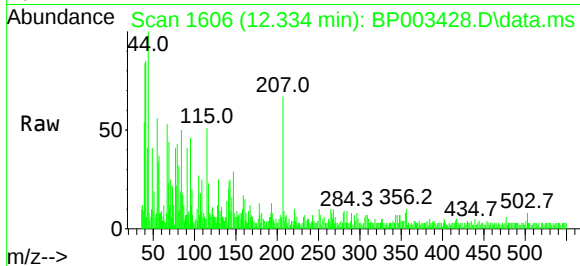




#41  
Hexachlorocyclopentadiene  
Concen: 6.84 ng  
RT: 12.334 min Scan# 1606  
Delta R.T. -0.018 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

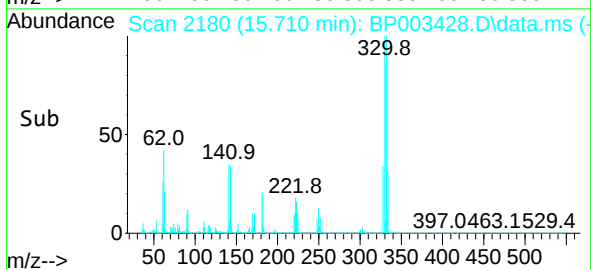
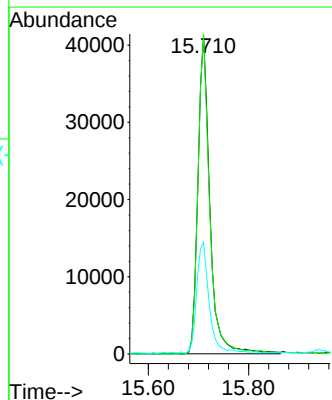
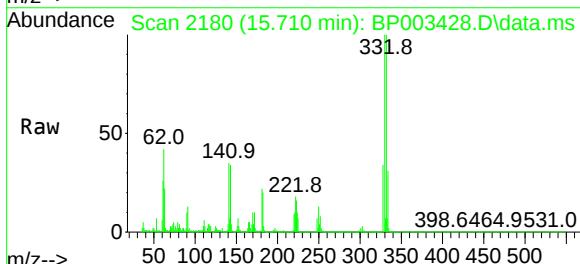
Instrument :  
BNA\_P  
ClientSampled :  
B-6(7-9)DL

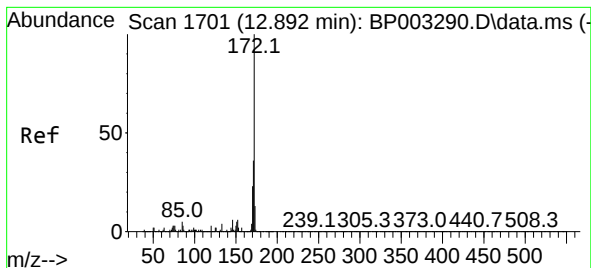
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|----------|-------|-------|-------|
| Tgt Ion: | 237   | Resp: | 12    |
| Ion      | Ratio | Lower | Upper |
| 237      | 100   |       |       |
| 235      | 54.5  | 43.2  | 83.2  |
| 272      | 0.0   | 0.0   | 33.3  |



#42  
2,4,6-Tribromophenol  
Concen: 15.50 ng  
RT: 15.710 min Scan# 2180  
Delta R.T. 0.018 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 68098 |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 97.7  | 77.1  | 115.7 |
| 141      | 35.9  | 23.4  | 35.2# |

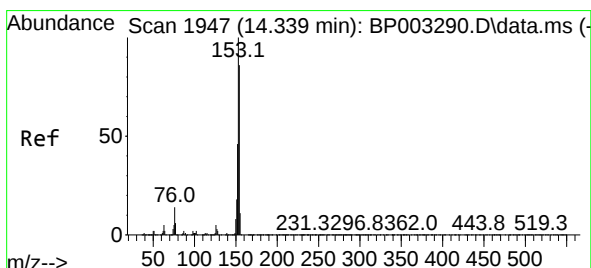
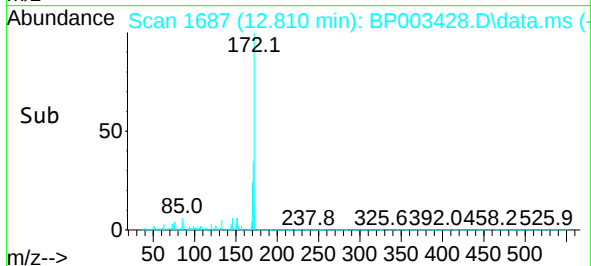
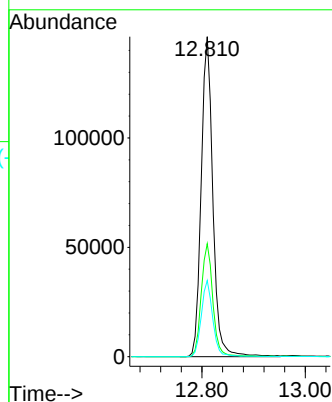
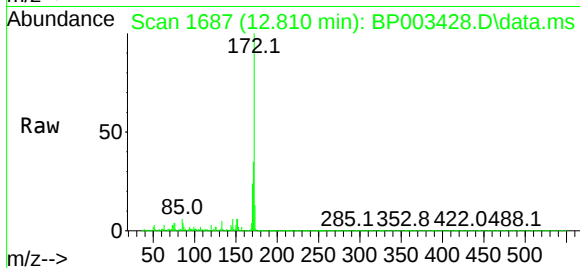




#45  
2-Fluorobiphenyl  
Concen: 11.64 ng  
RT: 12.810 min Scan# 1687  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

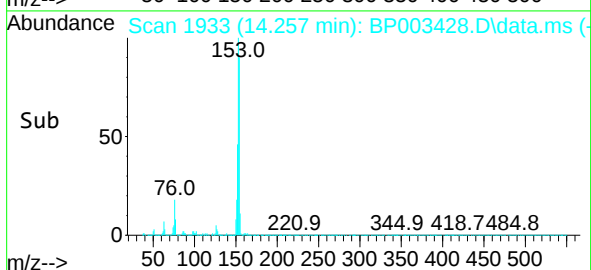
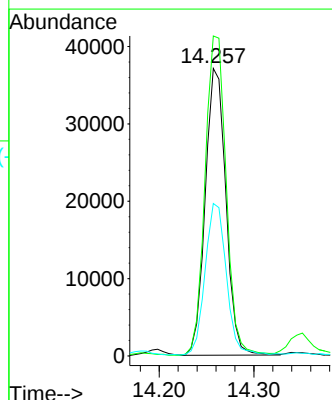
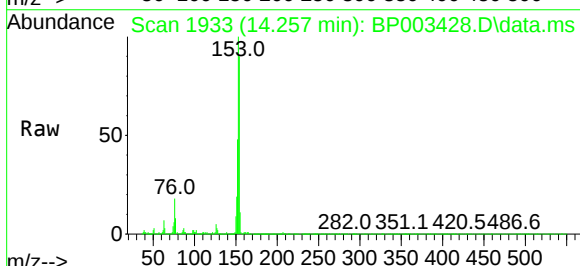
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

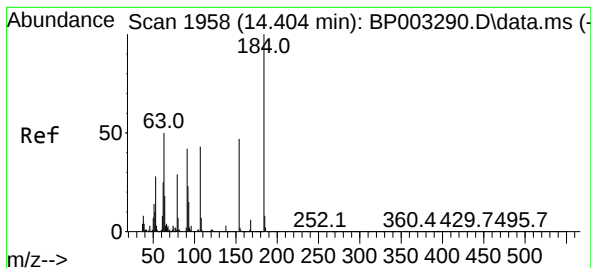
Tgt Ion:172 Resp: 229275  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.5 42.7  
170 23.8 19.2 28.8



#52  
Acenaphthene  
Concen: 3.40 ng  
RT: 14.257 min Scan# 1933  
Delta R.T. -0.000 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:154 Resp: 56282  
Ion Ratio Lower Upper  
154 100  
153 111.3 91.0 136.6  
152 53.0 43.0 64.6

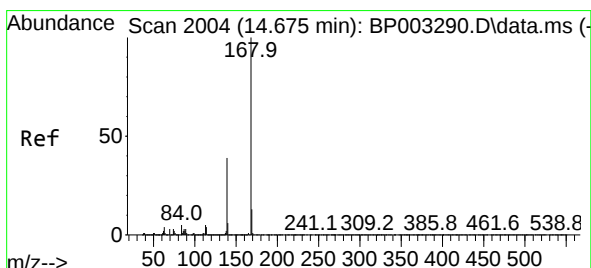
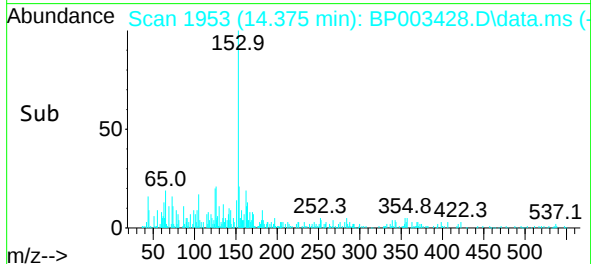
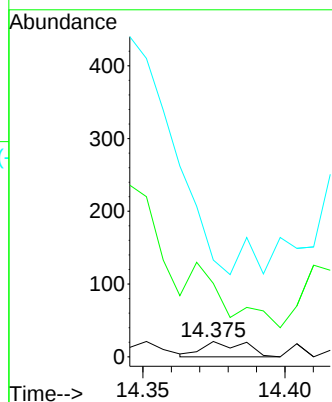
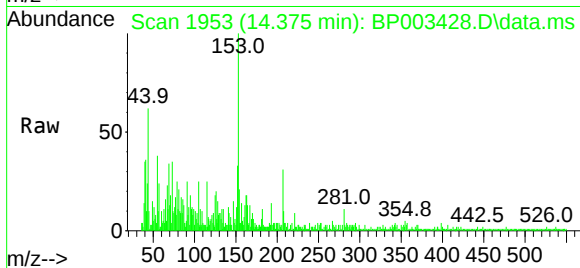




#54  
2,4-Dinitrophenol  
Concen: 7.26 ng  
RT: 14.375 min Scan# 1953  
Delta R.T. 0.029 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

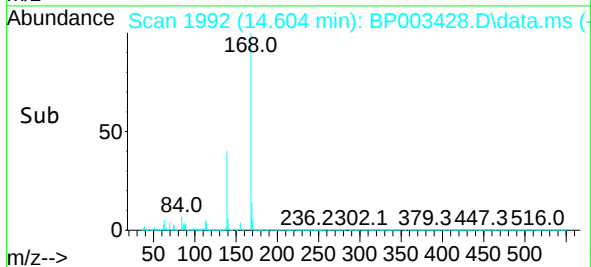
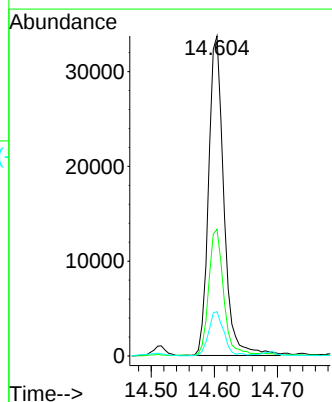
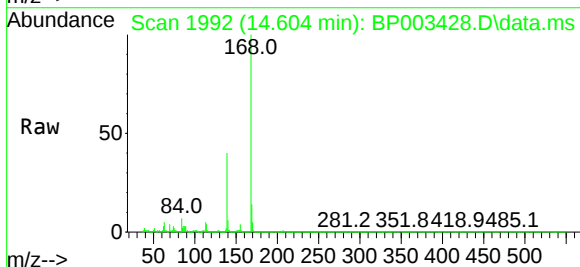
Instrument :  
BNA\_P  
ClientSampleID :  
B-6(7-9)DL

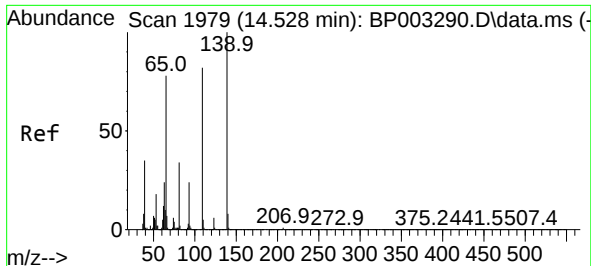
Tgt Ion:184 Resp: 22  
Ion Ratio Lower Upper  
184 100  
63 481.0 32.3 48.5#  
154 766.7 49.1 73.7#



#55  
Dibenzofuran  
Concen: 2.15 ng  
RT: 14.604 min Scan# 1992  
Delta R.T. 0.006 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:168 Resp: 56650  
Ion Ratio Lower Upper  
168 100  
139 39.6 29.1 43.7  
169 13.9 10.4 15.6

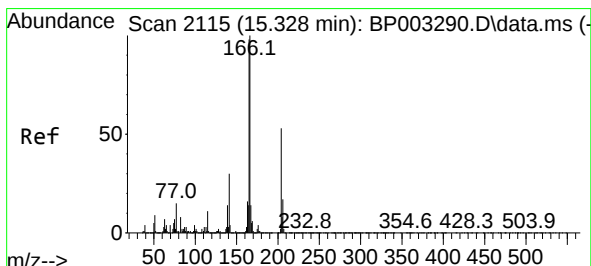
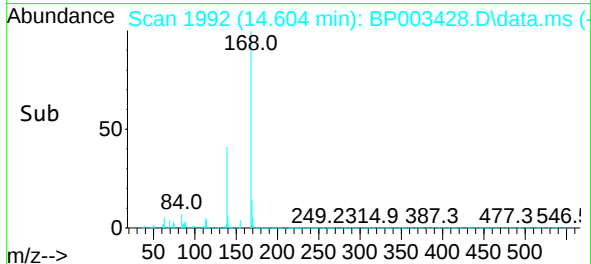
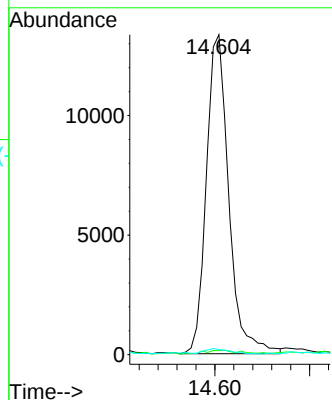
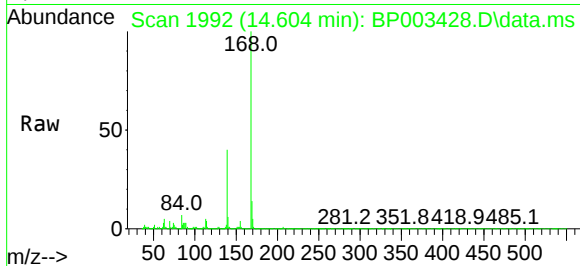




#56  
4-Nitrophenol  
Concen: 6.70 ng  
RT: 14.604 min Scan# 1992  
Delta R.T. 0.129 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

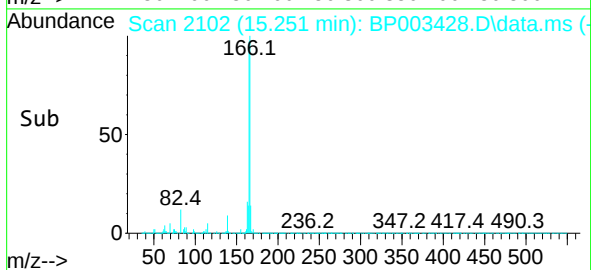
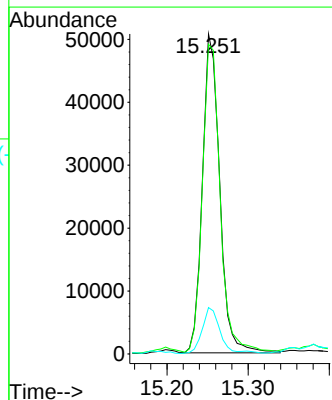
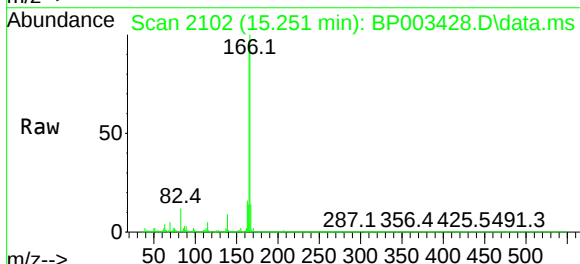
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

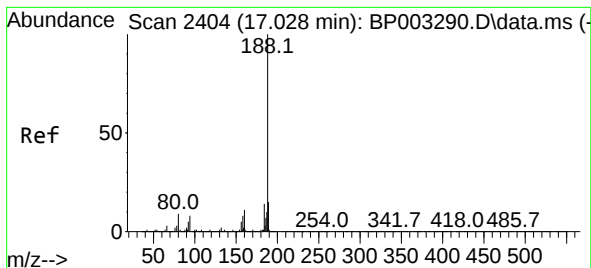
Tgt Ion:139 Resp: 21888  
Ion Ratio Lower Upper  
139 100  
109 1.2 44.6 84.6#  
65 1.6 41.6 81.6#



#58  
Fluorene  
Concen: 3.61 ng  
RT: 15.251 min Scan# 2102  
Delta R.T. -0.000 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:166 Resp: 75207  
Ion Ratio Lower Upper  
166 100  
165 96.8 77.8 116.8  
167 14.5 11.0 16.4

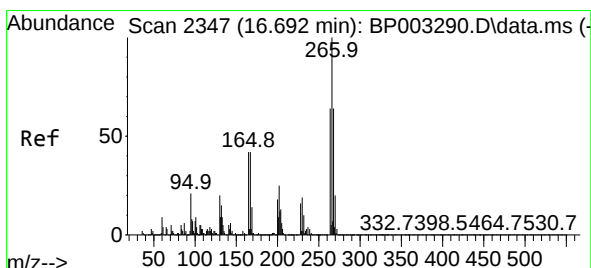
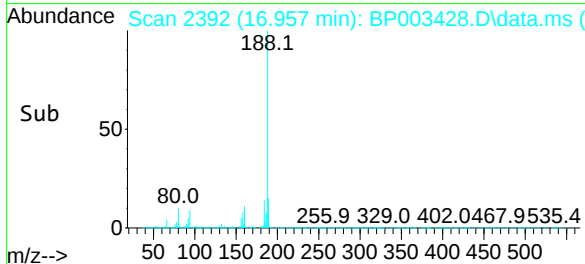
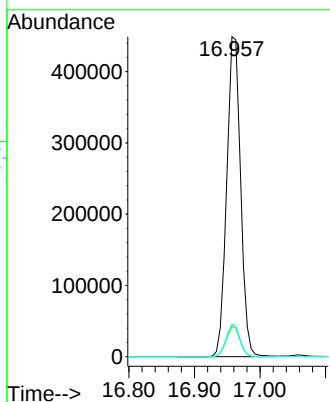
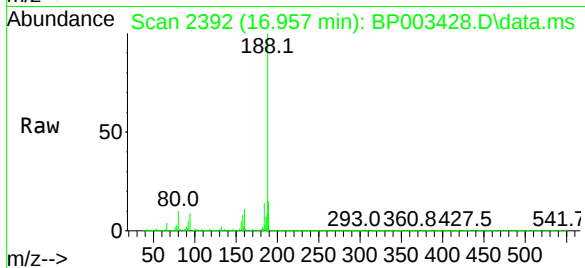




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 16.957 min Scan# 2392  
Delta R.T. 0.012 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

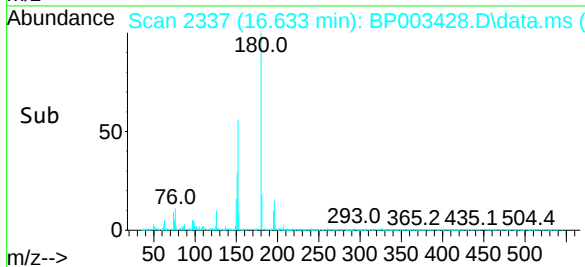
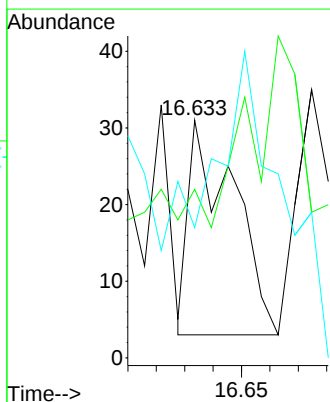
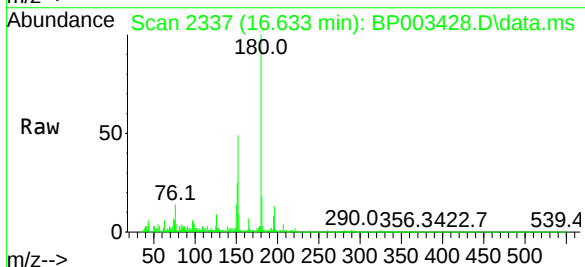
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

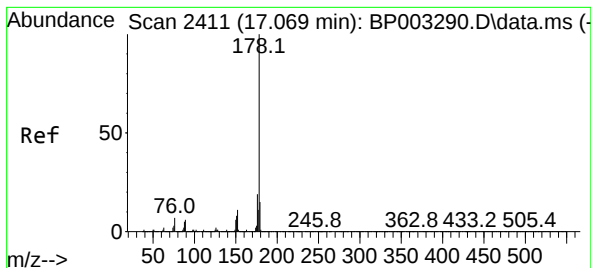
Tgt Ion:188 Resp: 659508  
Ion Ratio Lower Upper  
188 100  
94 9.4 6.2 9.2#  
80 10.2 6.2 9.2#



#70  
Pentachlorophenol  
Concen: 6.78 ng  
RT: 16.633 min Scan# 2337  
Delta R.T. 0.012 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:266 Resp: 31  
Ion Ratio Lower Upper  
266 100  
268 71.0 51.1 76.7  
264 54.8 50.6 76.0

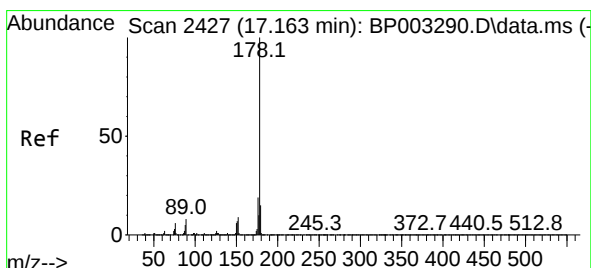
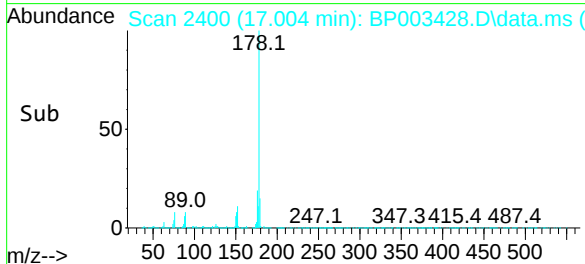
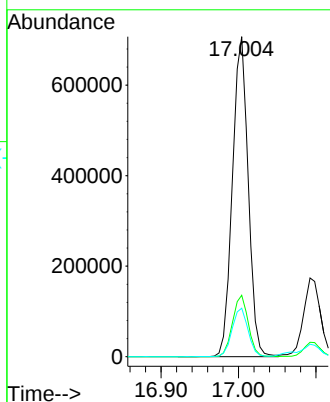
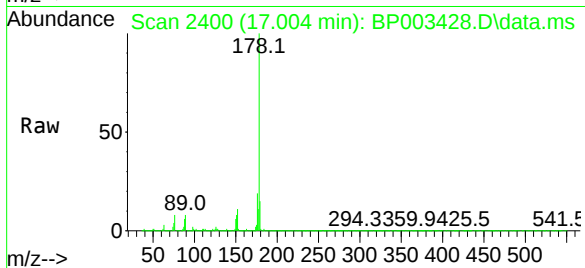




#71  
Phenanthrene  
Concen: 27.94 ng  
RT: 17.004 min Scan# 2400  
Delta R.T. 0.012 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

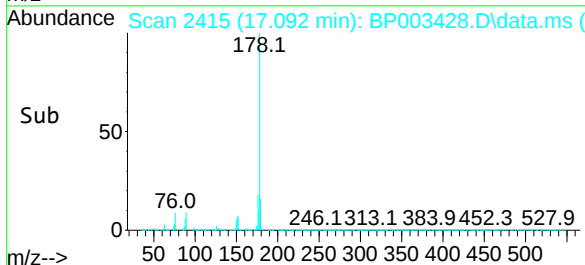
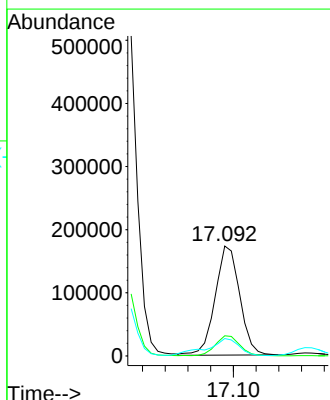
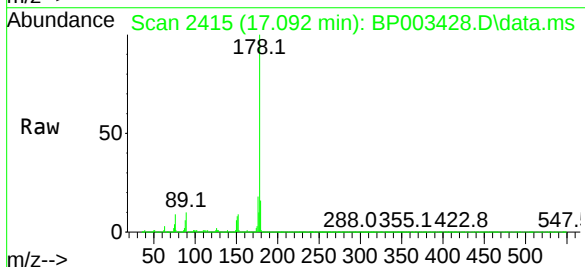
Instrument :  
BNA\_P  
ClientSampleID :  
B-6(7-9)DL

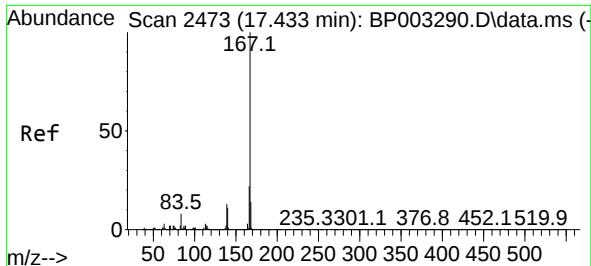
Tgt Ion:178 Resp: 1002727  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.3 22.9  
179 15.2 12.5 18.7



#72  
Anthracene  
Concen: 7.33 ng  
RT: 17.092 min Scan# 2415  
Delta R.T. 0.012 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:178 Resp: 259382  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.0 22.4  
179 15.8 12.5 18.7

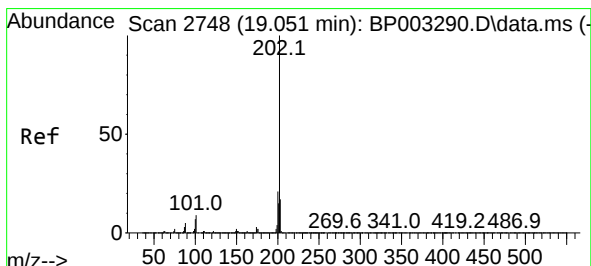
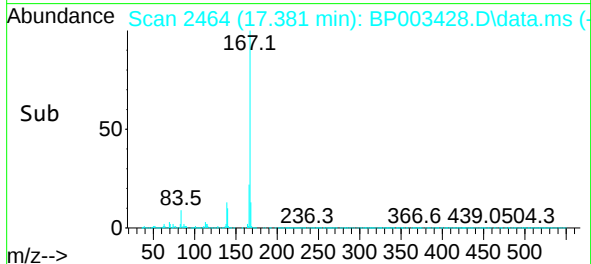
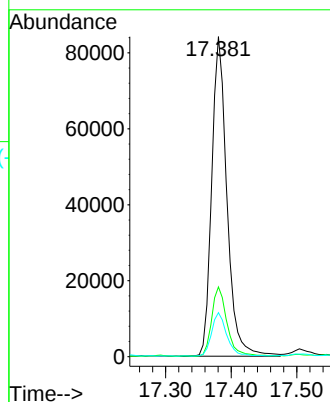
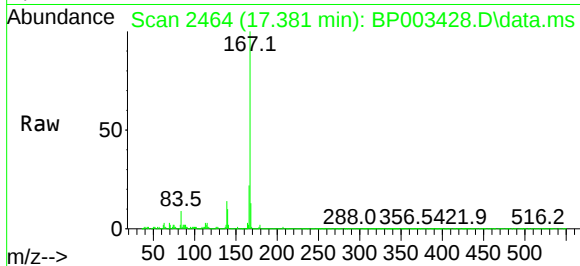




#73  
 Carbazole  
 Concen: 4.05 ng  
 RT: 17.381 min Scan# 2464  
 Delta R.T. 0.018 min  
 Lab File: BP003428.D  
 Acq: 30 Sep 2020 23:27

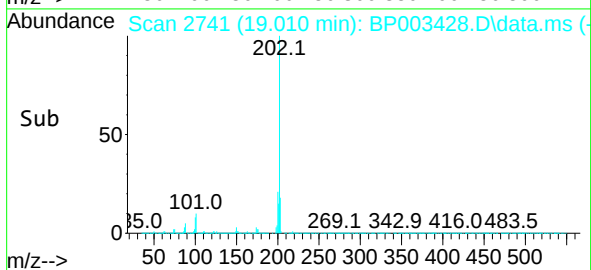
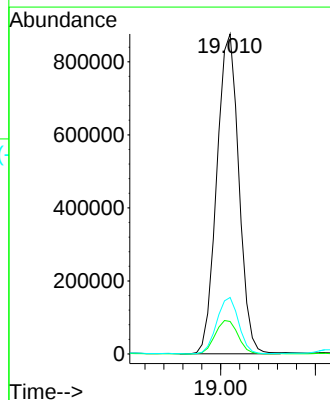
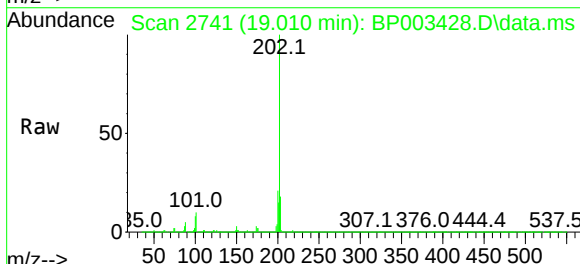
Instrument :  
 BNA\_P  
 ClientSampleID :  
 B-6(7-9)DL

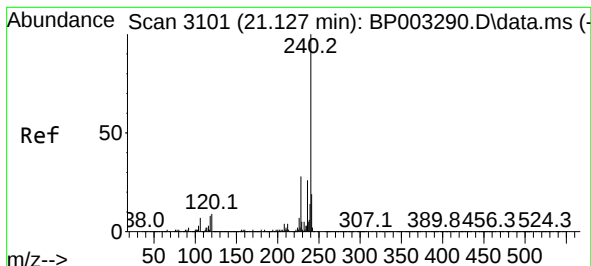
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 135975    |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 21.8  | 17.6 26.4 |
| 139         | 13.8  | 10.2 15.4 |



#75  
 Fluoranthene  
 Concen: 31.39 ng  
 RT: 19.010 min Scan# 2741  
 Delta R.T. 0.029 min  
 Lab File: BP003428.D  
 Acq: 30 Sep 2020 23:27

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 1416051  |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 10.2  | 0.0 29.4 |
| 203         | 17.6  | 0.0 37.8 |





#76

Chrysene-d12

Concen: 20.00 ng

RT: 21.145 min Scan# 3104

Delta R.T. 0.082 min

Lab File: BP003428.D

Acq: 30 Sep 2020 23:27

Tgt Ion:240 Resp: 627309

Ion Ratio Lower Upper

240 100

120 10.8 7.8 11.6

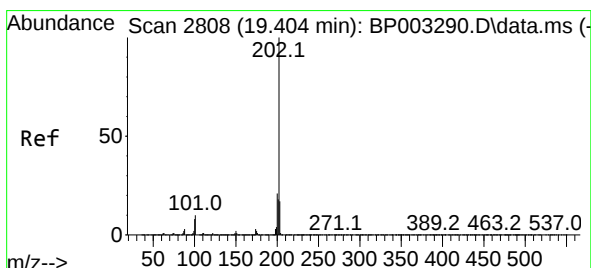
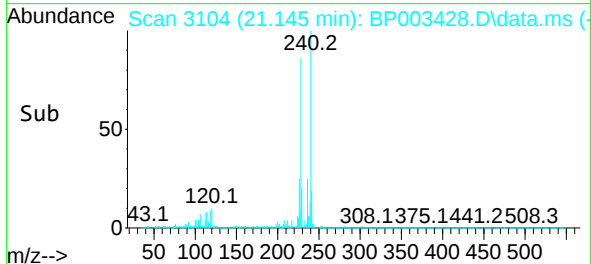
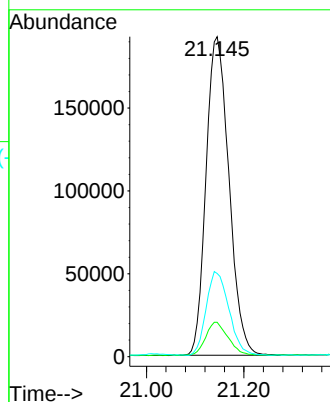
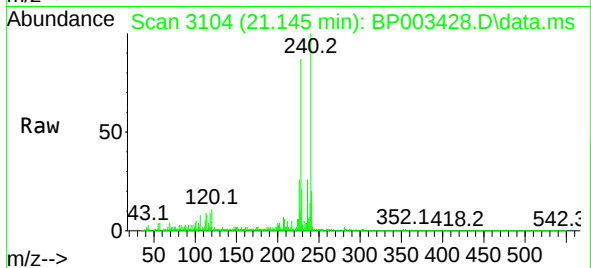
236 26.0 20.8 31.2

Instrument :

BNA\_P

ClientSampleId :

B-6(7-9)DL



#78

Pyrene

Concen: 28.84 ng

RT: 19.363 min Scan# 2801

Delta R.T. 0.029 min

Lab File: BP003428.D

Acq: 30 Sep 2020 23:27

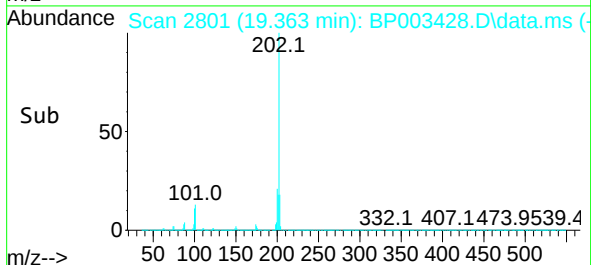
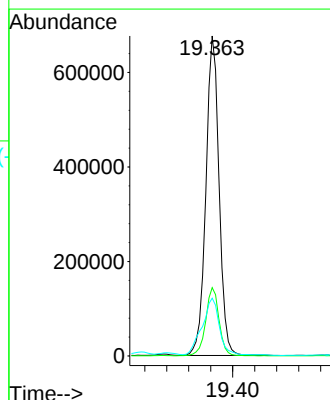
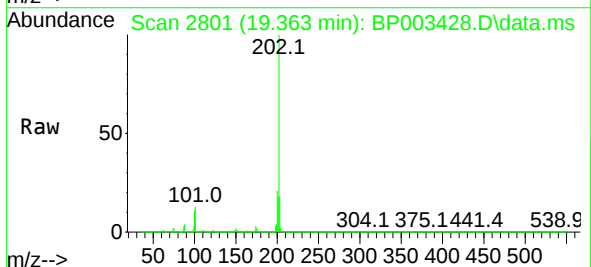
Tgt Ion:202 Resp: 1128253

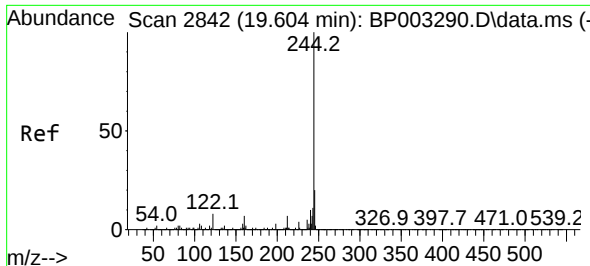
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 18.1 14.2 21.2

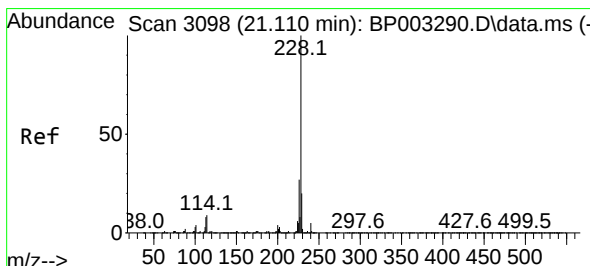
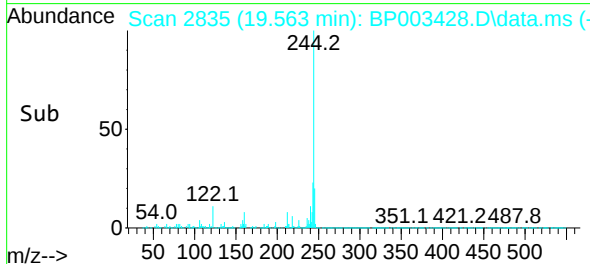
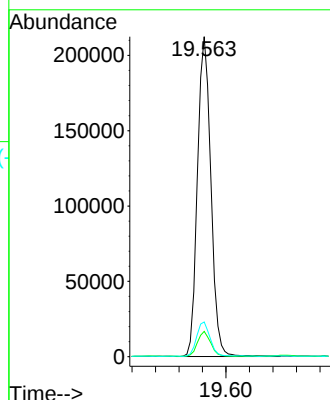
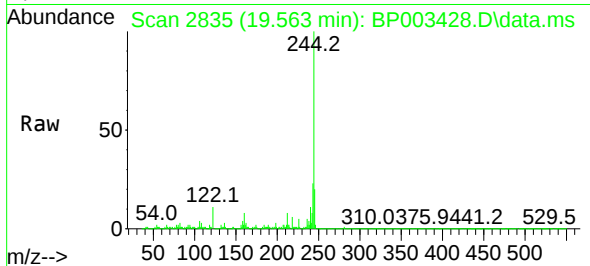




#79  
Terphenyl-d14  
Concen: 11.19 ng  
RT: 19.563 min Scan# 2835  
Delta R.T. 0.029 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

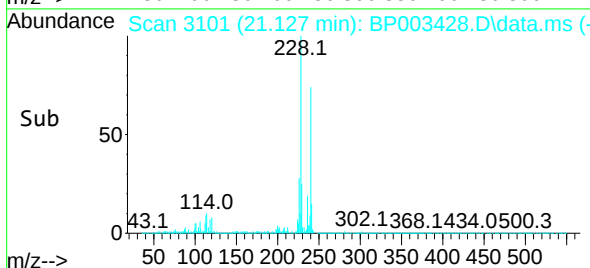
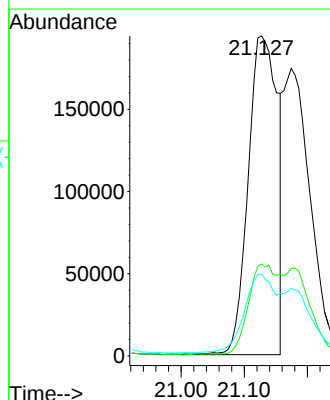
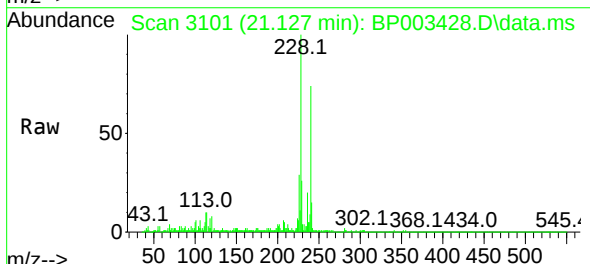
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

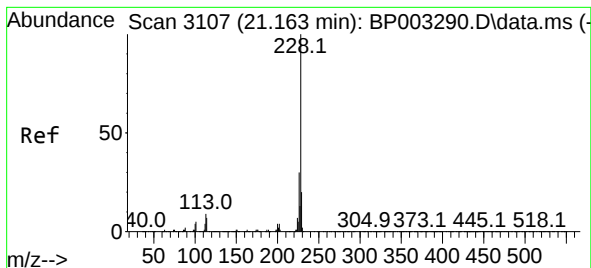
Tgt Ion:244 Resp: 336853  
Ion Ratio Lower Upper  
244 100  
212 7.9 5.8 8.6  
122 10.8 7.8 11.8



#81  
Benzo(a)anthracene  
Concen: 15.42 ng  
RT: 21.127 min Scan# 3101  
Delta R.T. 0.082 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Tgt Ion:228 Resp: 625468  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.1 33.1  
229 25.5 15.9 23.9#





#83

Chrysene

Concen: 16.05 ng

RT: 21.127 min Scan# 3101

Delta R.T. 0.029 min

Lab File: BP003428.D

Acq: 30 Sep 2020 23:27

Tgt Ion:228 Resp: 625468

Ion Ratio Lower Upper

228 100

226 28.8 24.4 36.6

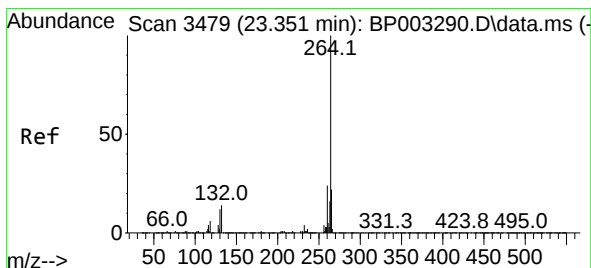
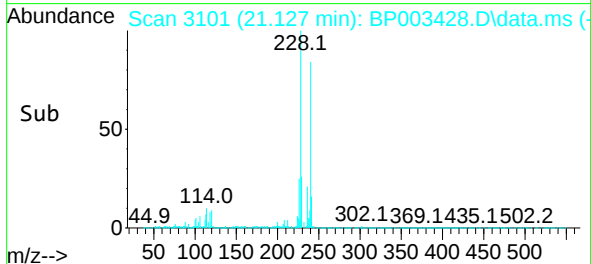
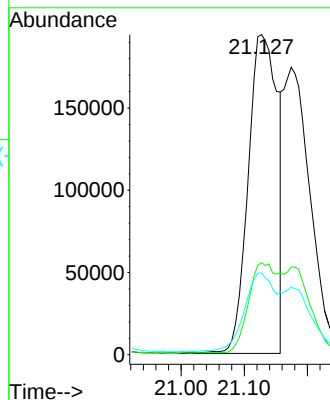
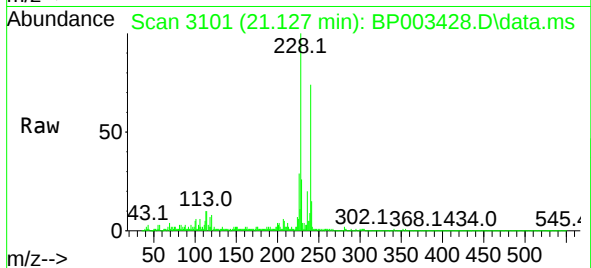
229 25.5 15.8 23.6#

Instrument :

BNA\_P

ClientSampleID :

B-6(7-9)DL



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.580 min Scan# 3518

Delta R.T. 0.323 min

Lab File: BP003428.D

Acq: 30 Sep 2020 23:27

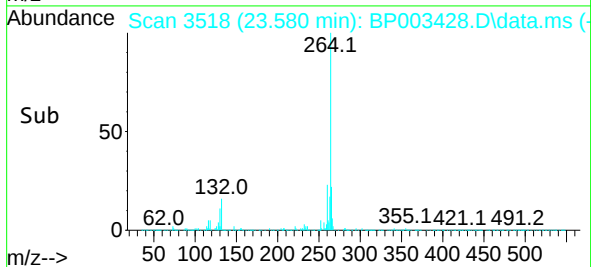
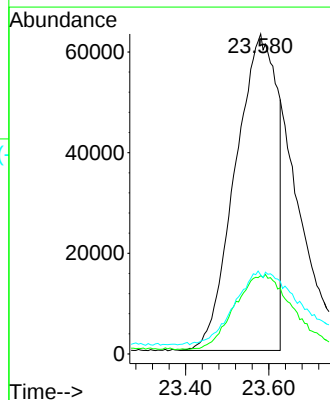
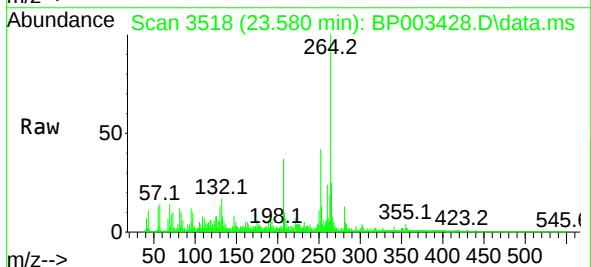
Tgt Ion:264 Resp: 432921

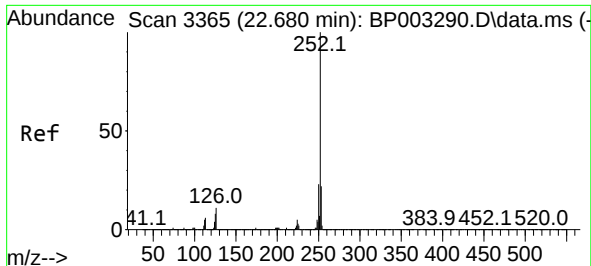
Ion Ratio Lower Upper

264 100

260 24.5 18.8 28.2

265 24.7 17.4 26.2

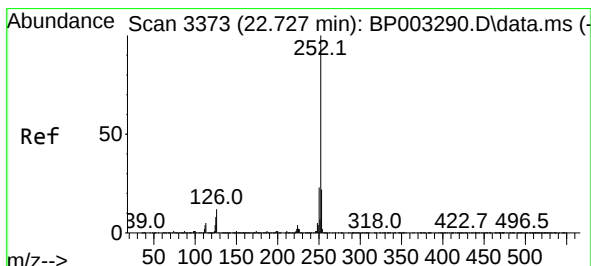
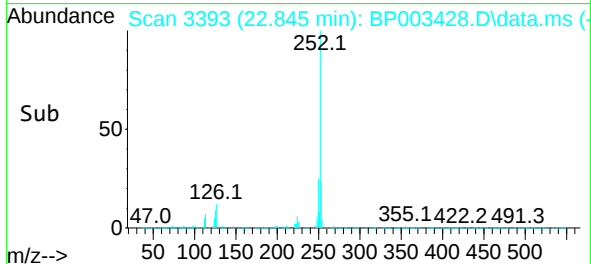
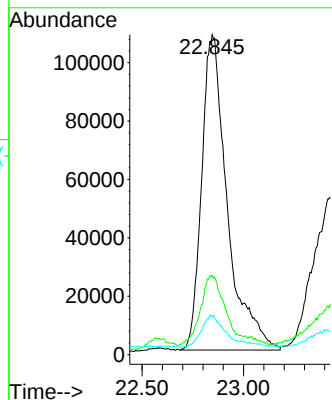
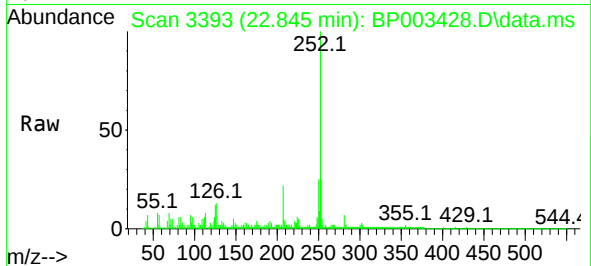




#88  
Benzo(b)fluoranthene  
Concen: 34.66 ng  
RT: 22.845 min Scan# 3393  
Delta R.T. 0.253 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

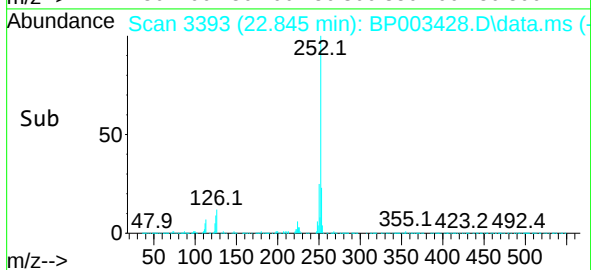
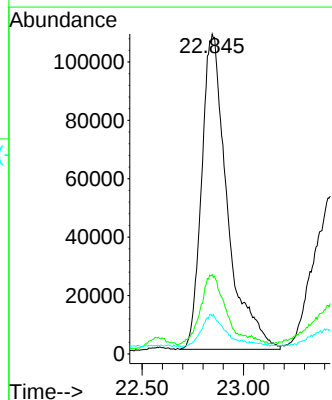
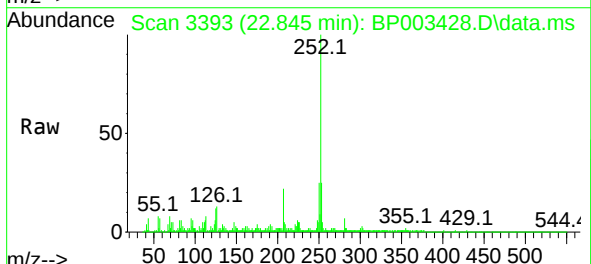
Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL

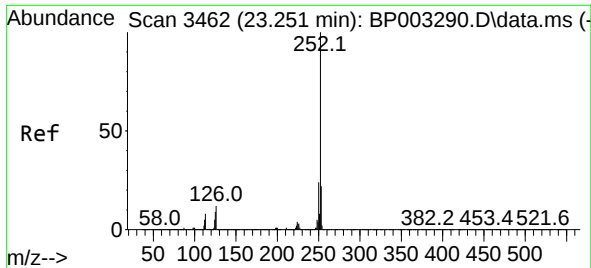
Tgt Ion:252 Resp: 947471  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.6 26.4  
125 11.8 7.3 10.9#



#89  
Benzo(k)fluoranthene  
Concen: 36.16 ng  
RT: 22.845 min Scan# 3393  
Delta R.T. 0.200 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

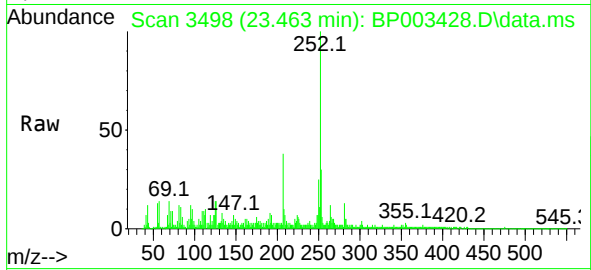
Tgt Ion:252 Resp: 947471  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.8 26.8  
125 11.8 7.4 11.2#





#90  
Benzo(a)pyrene  
Concen: 31.77 ng  
RT: 23.463 min Scan# 3498  
Delta R.T. 0.300 min  
Lab File: BP003428.D  
Acq: 30 Sep 2020 23:27

Instrument :  
BNA\_P  
ClientSampleId :  
B-6(7-9)DL



Tgt Ion:252 Resp: 819011  
Ion Ratio Lower Upper  
252 100  
253 29.7 17.4 26.0#  
125 14.1 8.2 12.4#

