

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP100220\  
 Data File : BP003460.D  
 Acq On : 02 Oct 2020 15:15  
 Operator : CG/JU  
 Sample : L4198-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 RO-21

Quant Time: Oct 02 16:37:46 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 02 11:17:24 2020  
 Response via : Initial Calibration

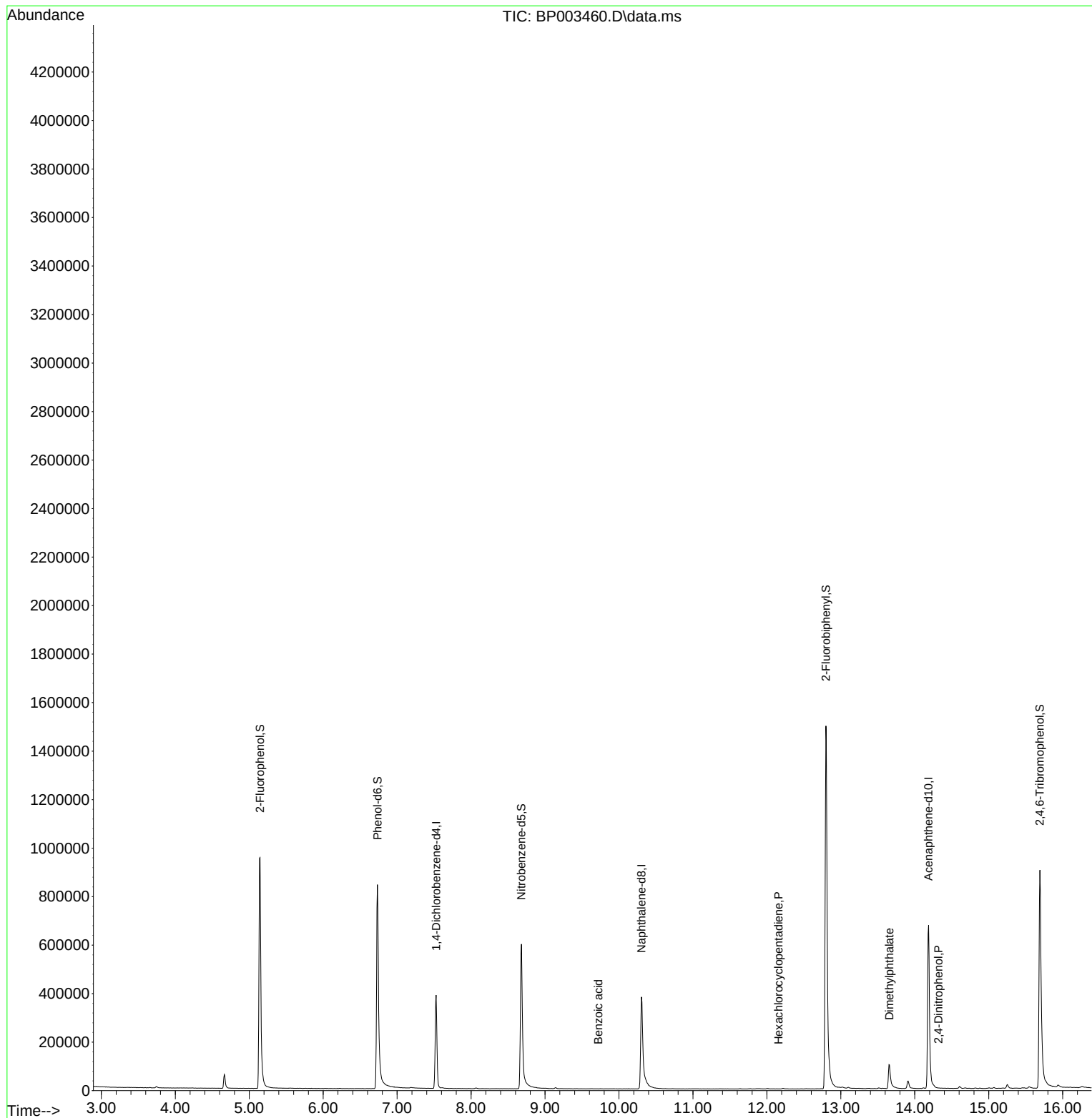
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.528  | 152  | 110057   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.304 | 136  | 450581   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.186 | 164  | 274840   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 16.945 | 188  | 593985   | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.045 | 240  | 650461   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12              | 23.233 | 264  | 670515   | 20.00 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.146  | 112  | 526805   | 83.58 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.734  | 99   | 673065   | 80.12 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.681  | 82   | 467687   | 60.98 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.692 | 330  | 246438   | 58.79 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.798 | 172  | 1022601  | 54.42 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.527 | 244  | 1500152  | 48.05 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 32) Benzoic acid              | 9.722  | 122  | 33       | 9.16  | ng    | # 1      |
| 41) Hexachlorocyclopentadiene | 12.157 | 237  | 15       | 6.84  | ng    | 83       |
| 50) Dimethylphthalate         | 13.657 | 163  | 101365   | 4.62  | ng    | 98       |
| 54) 2,4-Dinitrophenol         | 14.322 | 184  | 22       | 7.26  | ng    | # 1      |
| 70) Pentachlorophenol         | 16.557 | 266  | 22       | 6.78  | ng    | 96       |
| 71) Phenanthrene              | 16.986 | 178  | 170686   | 5.28  | ng    | 100      |
| 75) Fluoranthene              | 18.974 | 202  | 353287   | 8.69  | ng    | 97       |
| 78) Pyrene                    | 19.327 | 202  | 289609   | 7.14  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.033 | 228  | 148469   | 3.53  | ng    | 99       |
| 83) Chrysene                  | 21.086 | 228  | 164751   | 4.08  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 25.450 | 276  | 109261   | 2.15  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 22.580 | 252  | 253109   | 5.98  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 22.580 | 252  | 253109   | 6.24  | ng    | 99       |
| 90) Benzo(a)pyrene            | 23.139 | 252  | 154870   | 3.88  | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 26.133 | 276  | 102943   | 2.46  | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP100220\  
Data File : BP003460.D  
Acq On : 02 Oct 2020 15:15  
Operator : CG/JU  
Sample : L4198-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

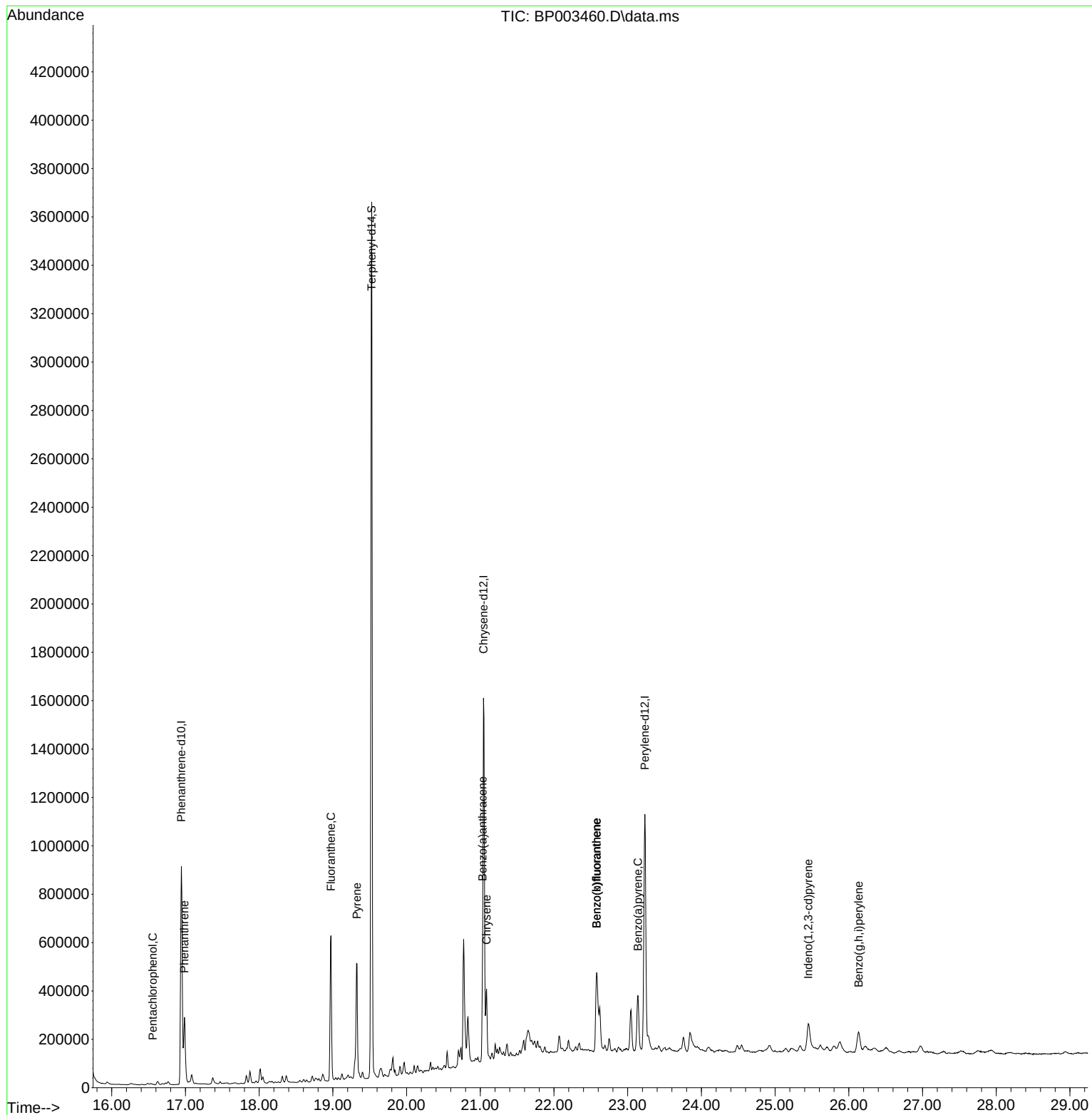
Quant Time: Oct 02 16:37:46 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP091520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 02 11:17:24 2020  
Response via : Initial Calibration

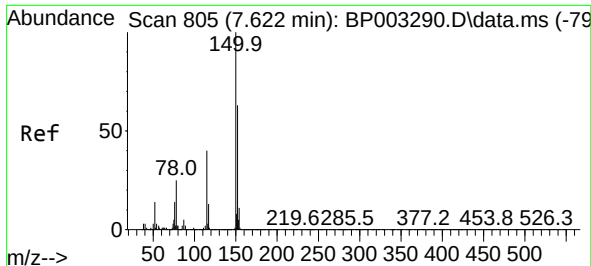


Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP100220\  
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QLast Update : Fri Oct 02 11:17:24 2020  
Response via : Initial Calibration

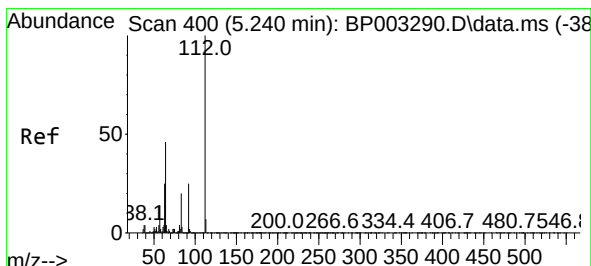
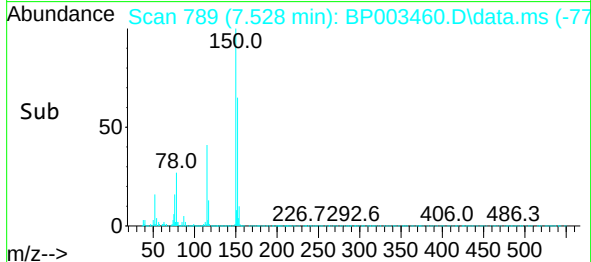
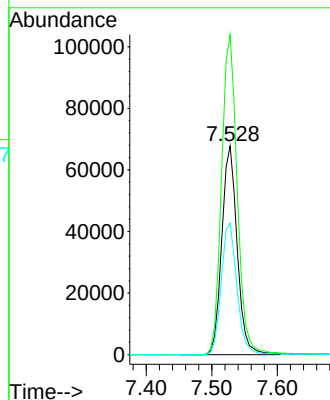
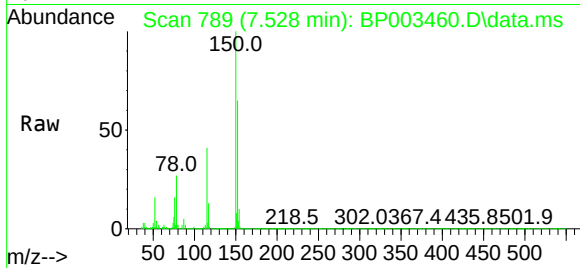




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.528 min Scan# 789  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

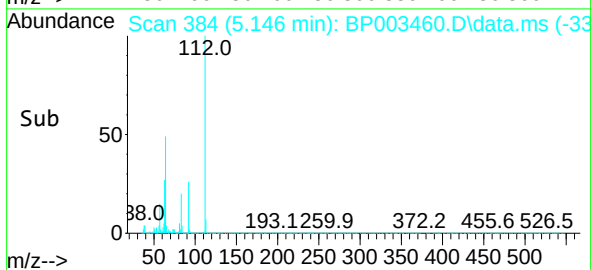
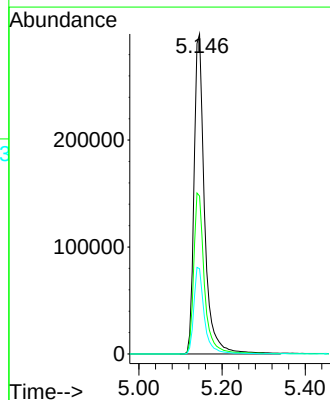
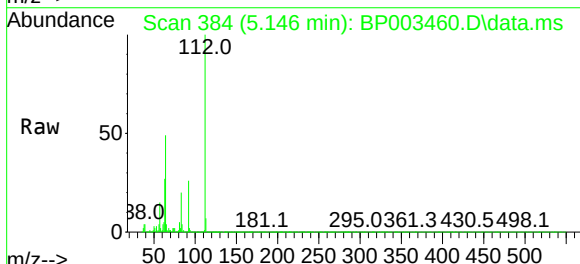
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

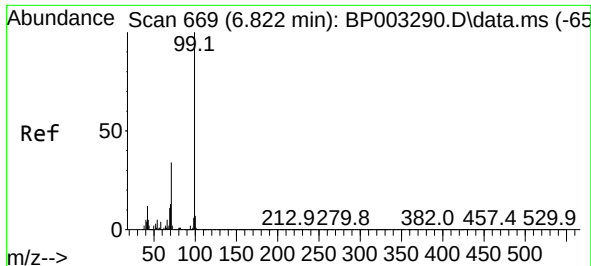
Tgt Ion:152 Resp: 110057  
Ion Ratio Lower Upper  
152 100  
150 153.3 123.8 185.6  
115 63.0 43.8 65.6



#5  
2-Fluorophenol  
Concen: 83.58 ng  
RT: 5.146 min Scan# 384  
Delta R.T. 0.006 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:112 Resp: 526805  
Ion Ratio Lower Upper  
112 100  
64 49.3 32.8 49.2#  
63 26.6 17.0 25.4#

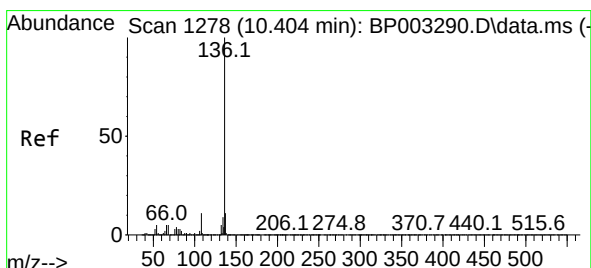
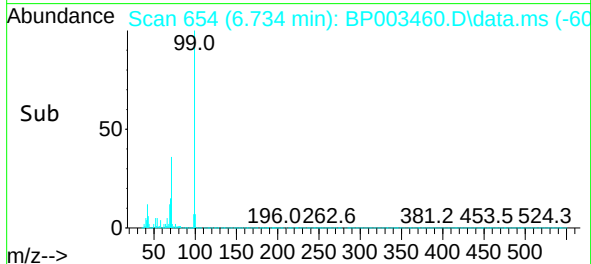
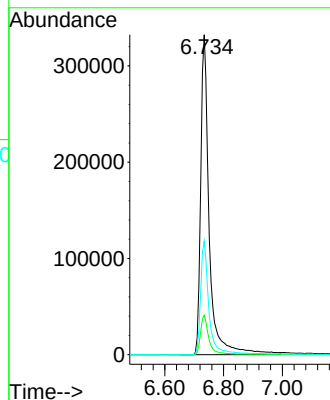
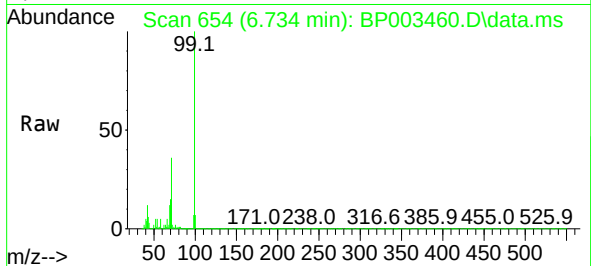




#7  
Phenol-d6  
Concen: 80.12 ng  
RT: 6.734 min Scan# 654  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

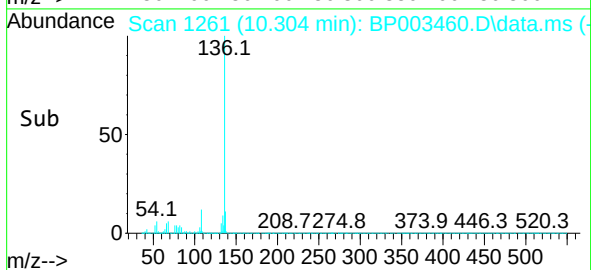
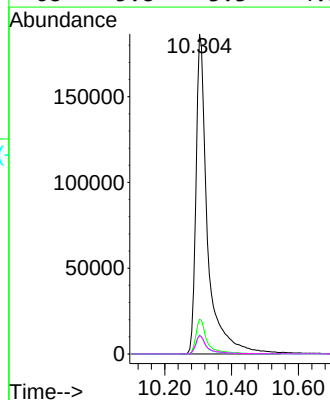
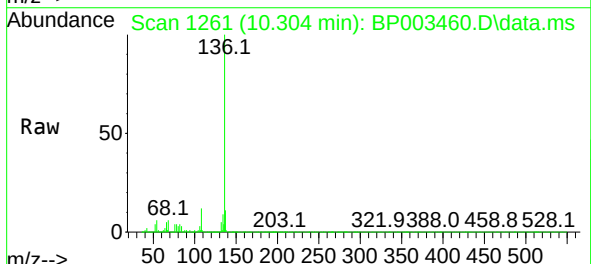
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

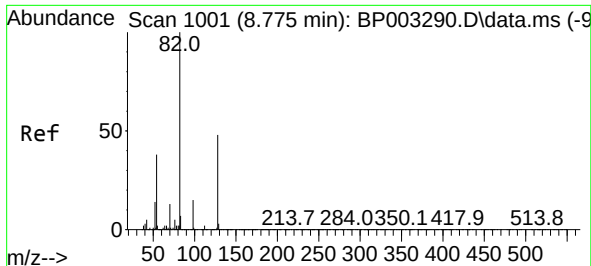
Tgt Ion: 99 Resp: 673065  
Ion Ratio Lower Upper  
99 100  
42 12.3 8.6 13.0  
71 35.6 23.4 35.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.304 min Scan# 1261  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion: 136 Resp: 450581  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 13.0  
54 5.9 3.6 5.4#  
68 5.8 3.3 4.9#

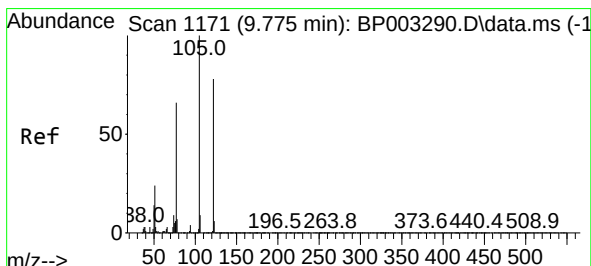
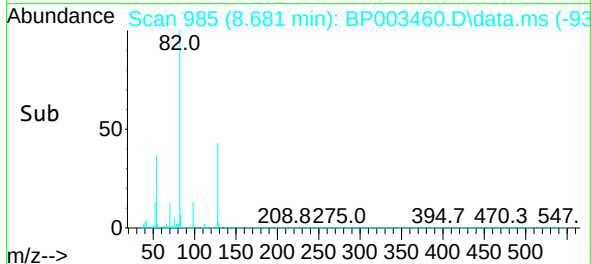
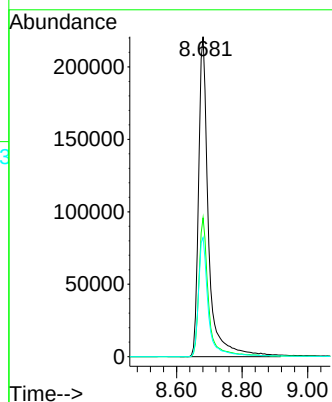
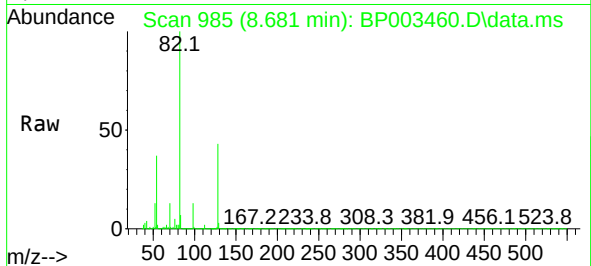




#23  
Nitrobenzene-d5  
Concen: 60.98 ng  
RT: 8.681 min Scan# 985  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

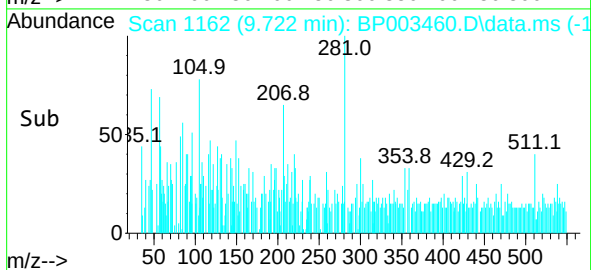
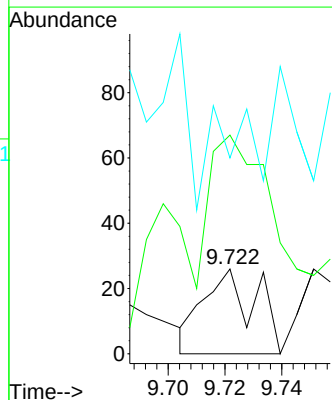
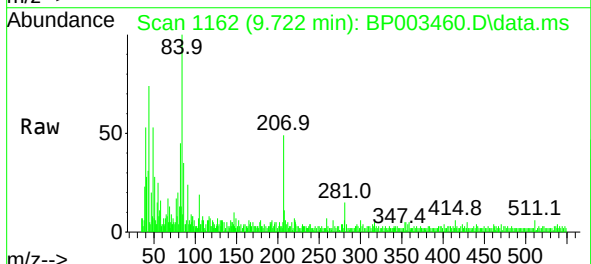
Instrument :  
BNA\_P  
ClientSampled :  
RO-21

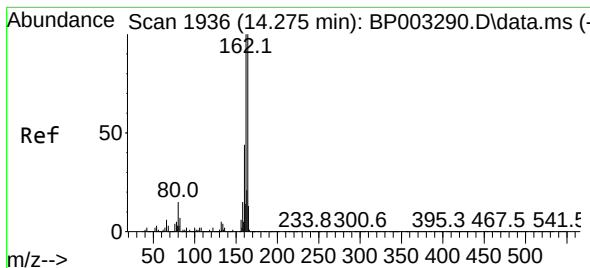
Tgt Ion: 82 Resp: 467687  
Ion Ratio Lower Upper  
82 100  
128 43.4 45.6 68.4#  
54 37.3 30.1 45.1



#32  
Benzoic acid  
Concen: 9.16 ng  
RT: 9.722 min Scan# 1162  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion: 122 Resp: 33  
Ion Ratio Lower Upper  
122 100  
105 284.6 94.1 134.1#  
77 230.8 50.1 90.1#

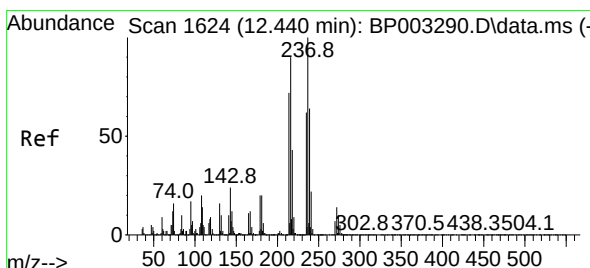
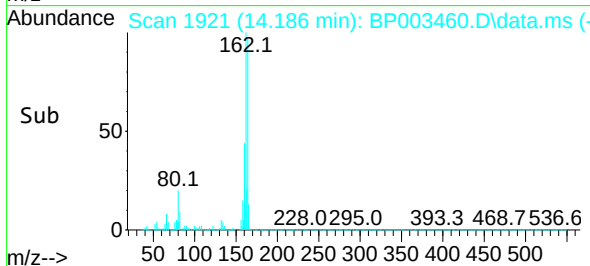
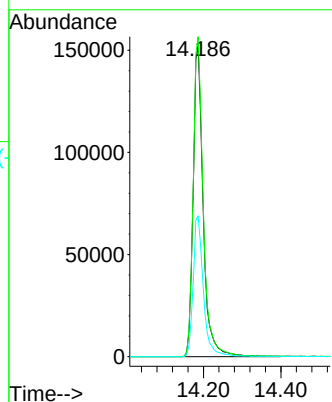
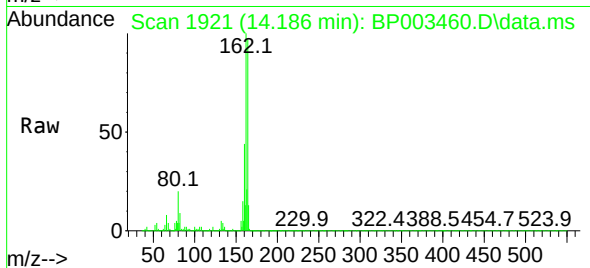




#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.186 min Scan# 1921  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

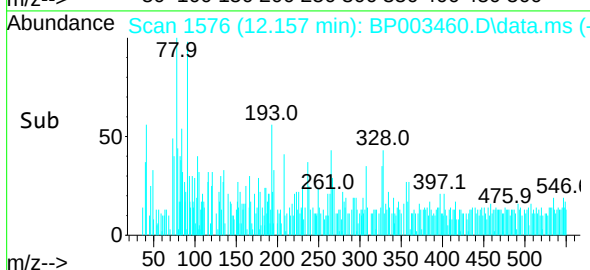
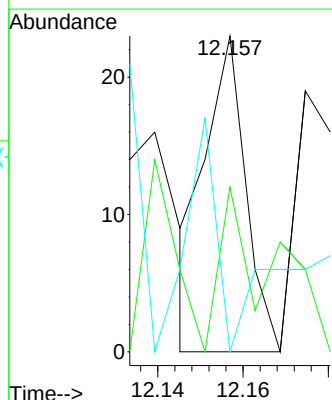
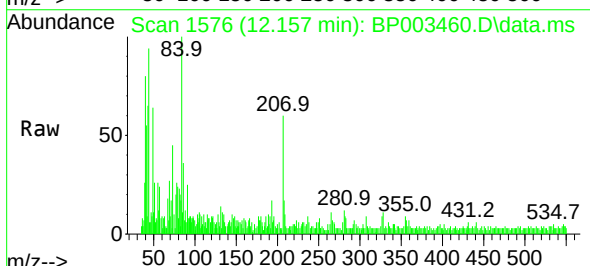
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

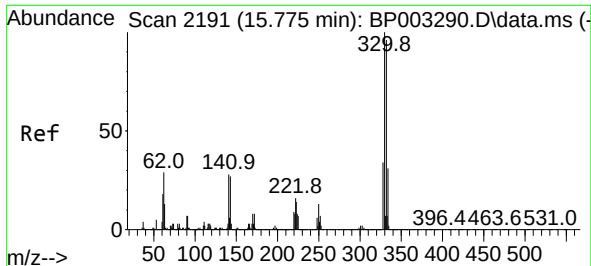
Tgt Ion:164 Resp: 274840  
Ion Ratio Lower Upper  
164 100  
162 103.1 79.4 119.2  
160 45.3 36.1 54.1



#41  
Hexachlorocyclopentadiene  
Concen: 6.84 ng  
RT: 12.157 min Scan# 1576  
Delta R.T. -0.183 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:237 Resp: 15  
Ion Ratio Lower Upper  
237 100  
235 52.2 43.2 83.2  
272 0.0 0.0 33.3

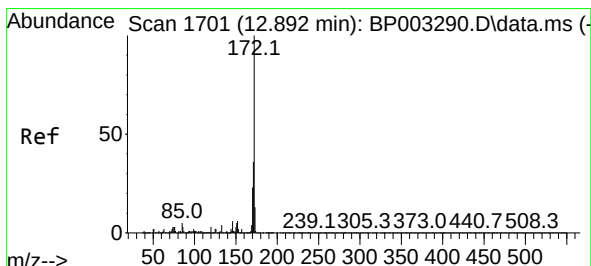
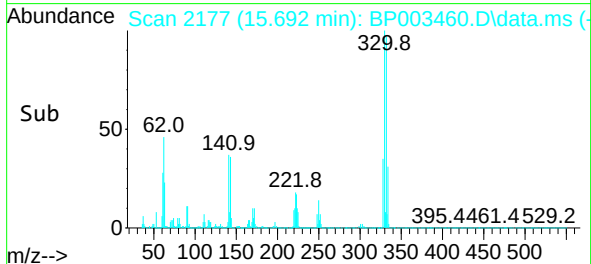
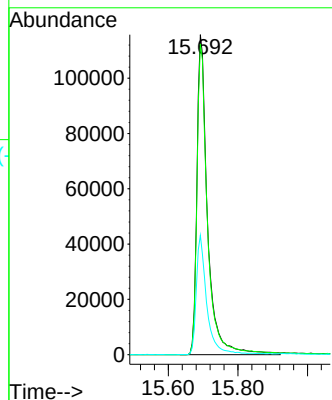
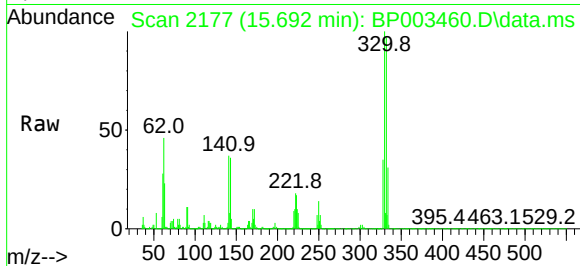




#42  
2,4,6-Tribromophenol  
Concen: 58.79 ng  
RT: 15.692 min Scan# 2177  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

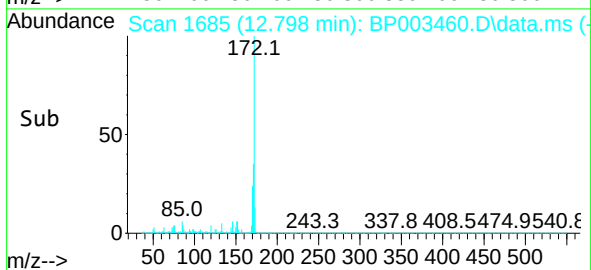
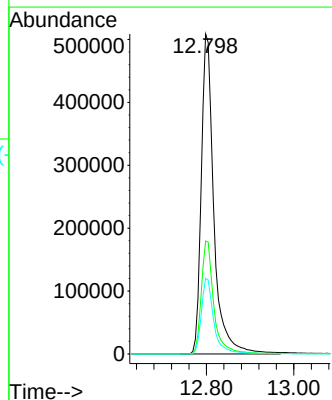
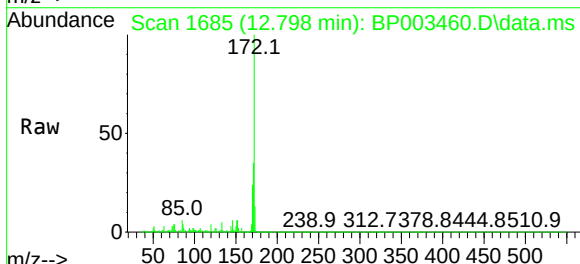
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

Tgt Ion:330 Resp: 246438  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.1 115.7  
141 36.5 23.4 35.2#

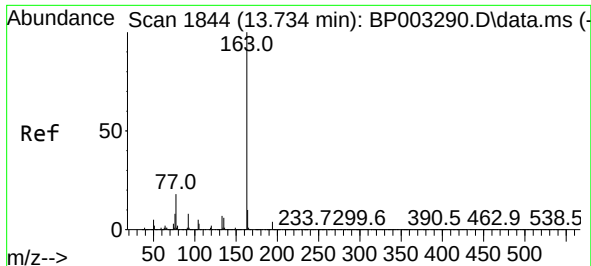


#45  
2-Fluorobiphenyl  
Concen: 54.42 ng  
RT: 12.798 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:172 Resp: 1022601  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.5 42.7  
170 23.7 19.2 28.8



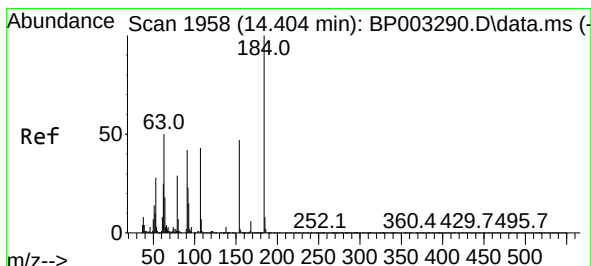
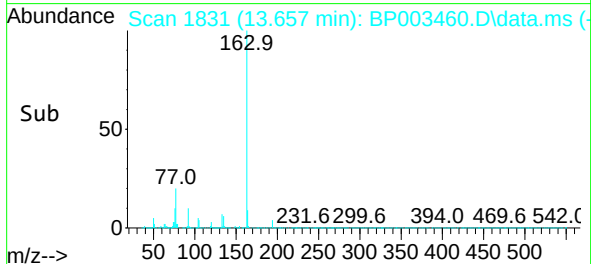
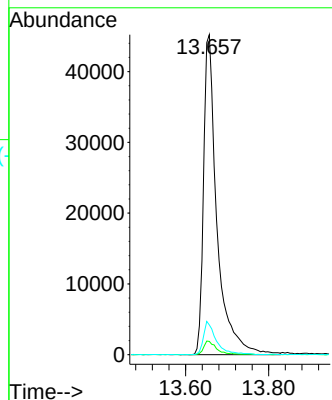
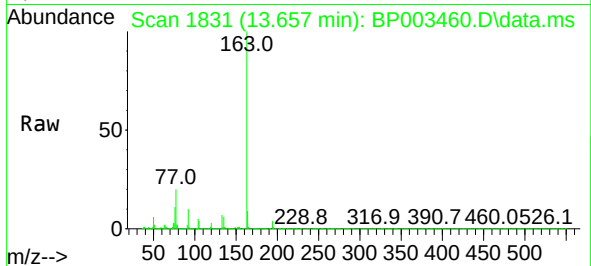




#50  
Dimethylphthalate  
Concen: 4.62 ng  
RT: 13.657 min Scan# 1831  
Delta R.T. 0.006 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

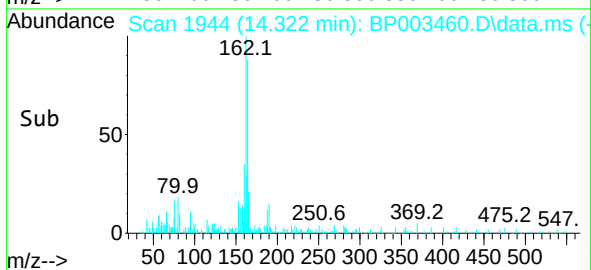
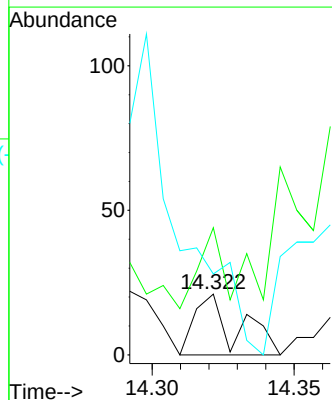
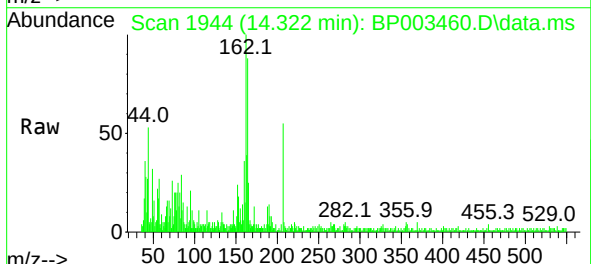
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

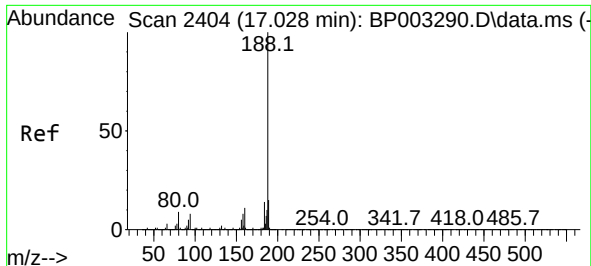
Tgt Ion:163 Resp: 101365  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.3 4.9  
164 9.3 8.2 12.2



#54  
2,4-Dinitrophenol  
Concen: 7.26 ng  
RT: 14.322 min Scan# 1944  
Delta R.T. -0.024 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:184 Resp: 22  
Ion Ratio Lower Upper  
184 100  
63 209.5 32.3 48.5#  
154 133.3 49.1 73.7#

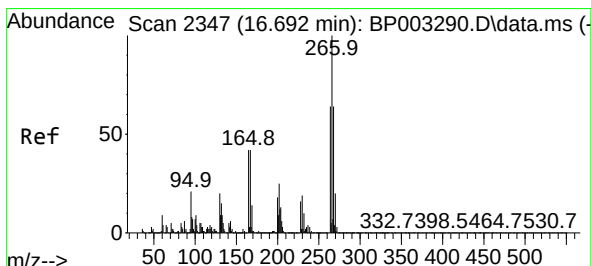
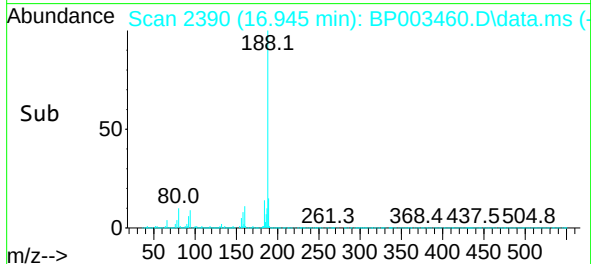
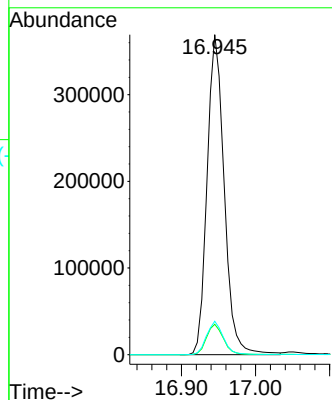
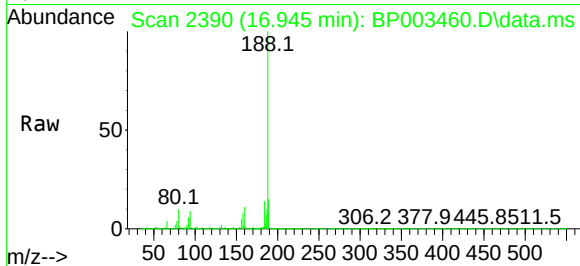




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 16.945 min Scan# 2390  
Delta R.T. 0.006 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

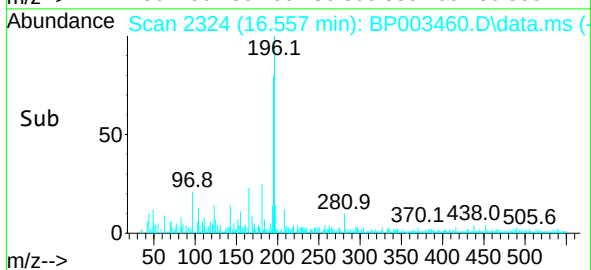
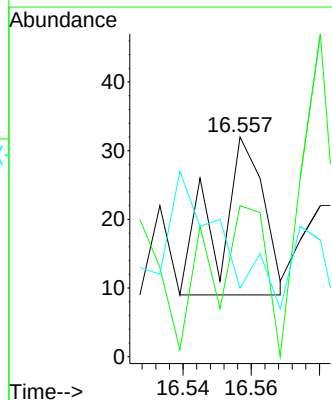
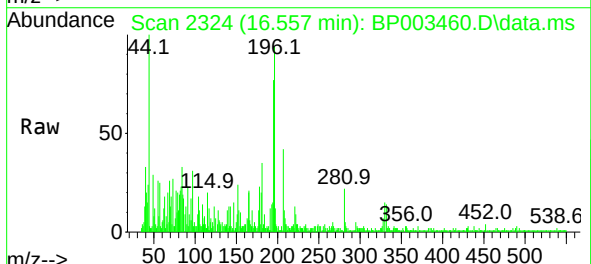
Instrument :  
BNA\_P  
ClientSampled :  
RO-21

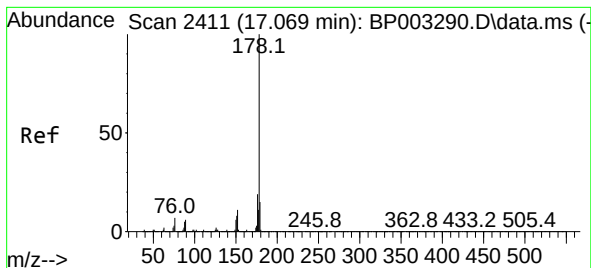
Tgt Ion:188 Resp: 593985  
Ion Ratio Lower Upper  
188 100  
94 9.5 6.2 9.2#  
80 10.5 6.2 9.2#



#70  
Pentachlorophenol  
Concen: 6.78 ng  
RT: 16.557 min Scan# 2324  
Delta R.T. -0.065 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:266 Resp: 22  
Ion Ratio Lower Upper  
266 100  
268 68.8 51.1 76.7  
264 62.5 50.6 76.0

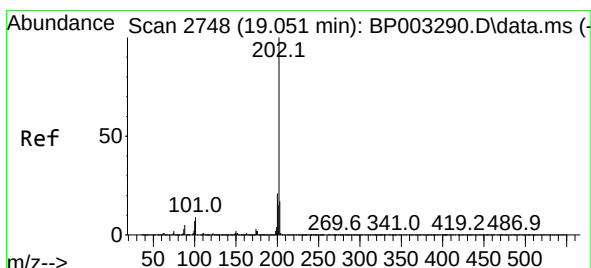
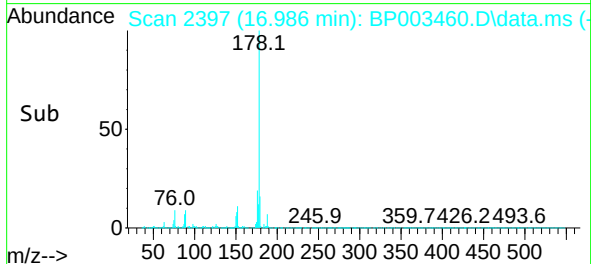
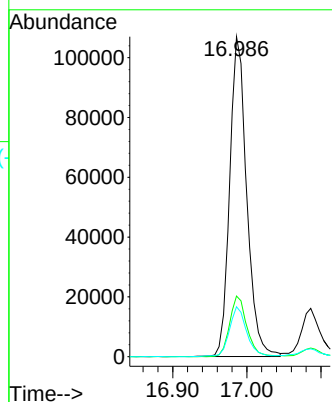
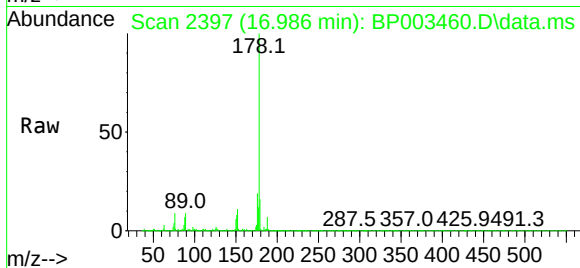




#71  
Phenanthrene  
Concen: 5.28 ng  
RT: 16.986 min Scan# 2397  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

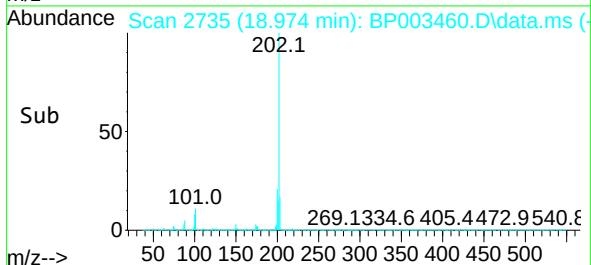
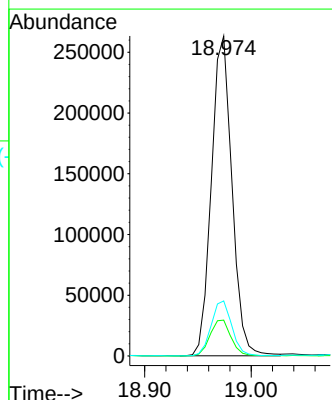
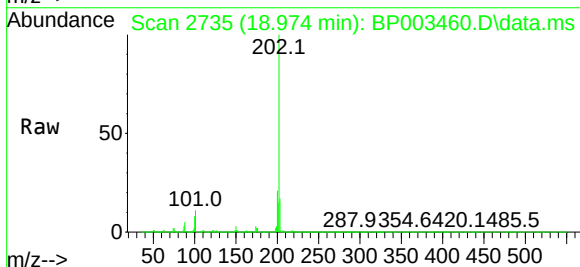
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

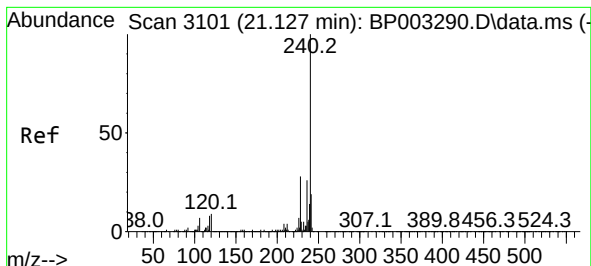
Tgt Ion:178 Resp: 170686  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.3 22.9  
179 15.6 12.5 18.7



#75  
Fluoranthene  
Concen: 8.69 ng  
RT: 18.974 min Scan# 2735  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:202 Resp: 353287  
Ion Ratio Lower Upper  
202 100  
101 11.2 0.0 29.4  
203 17.2 0.0 37.8

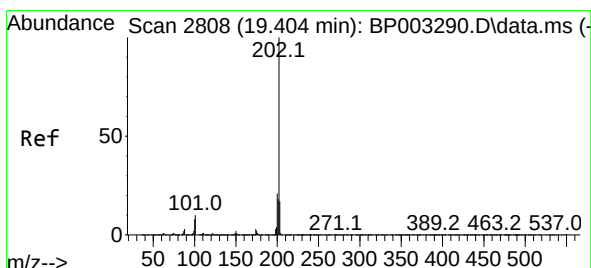
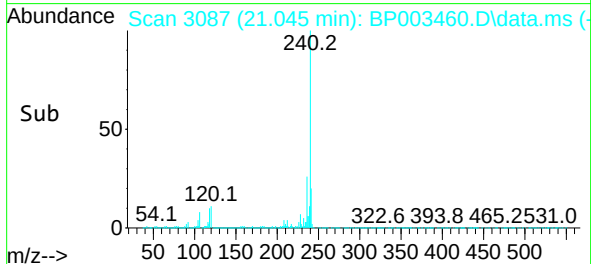
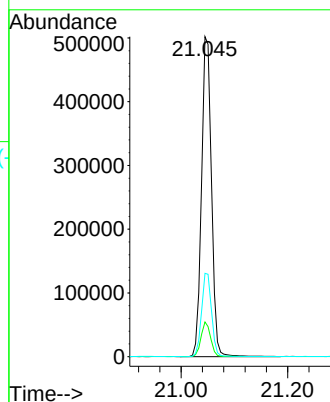
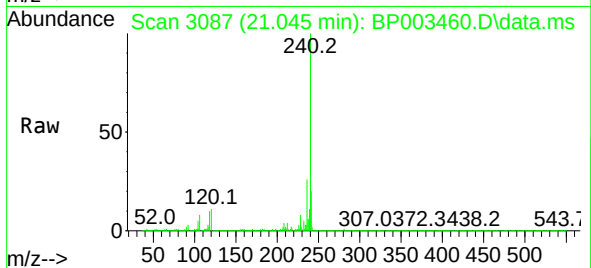




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.045 min Scan# 3087  
Delta R.T. -0.006 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

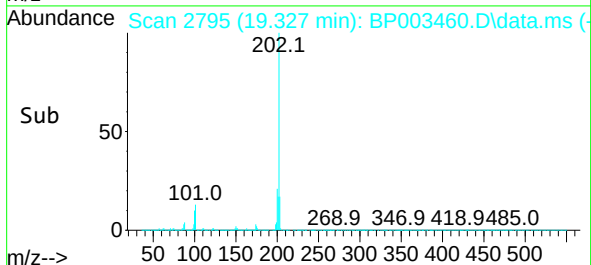
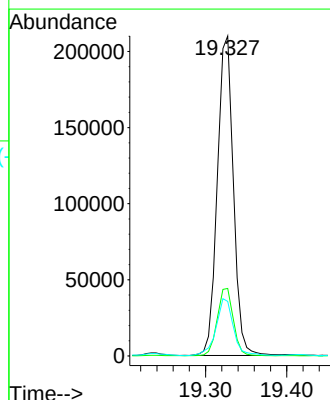
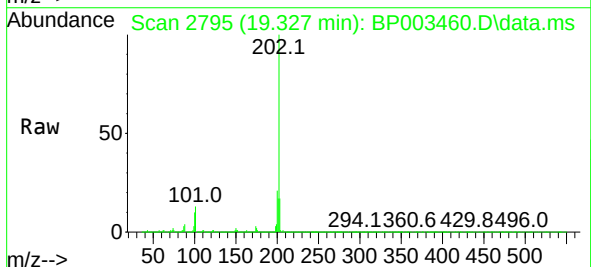
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

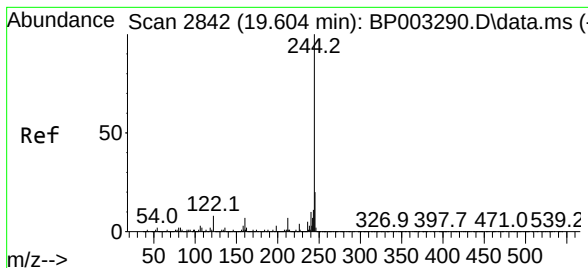
Tgt Ion:240 Resp: 650461  
Ion Ratio Lower Upper  
240 100  
120 10.9 7.8 11.6  
236 26.0 20.8 31.2



#78  
Pyrene  
Concen: 7.14 ng  
RT: 19.327 min Scan# 2795  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:202 Resp: 289609  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.1 25.7  
203 17.0 14.2 21.2

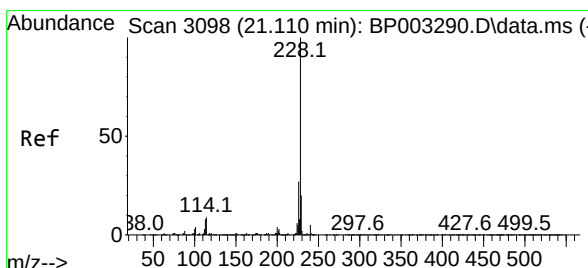
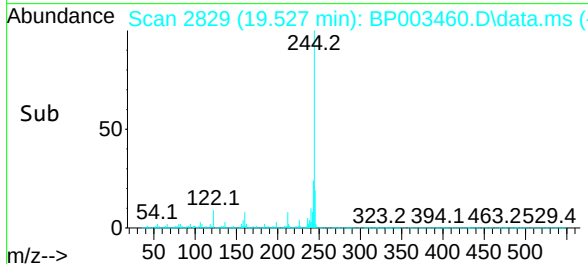
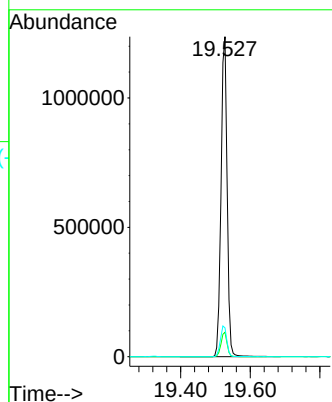
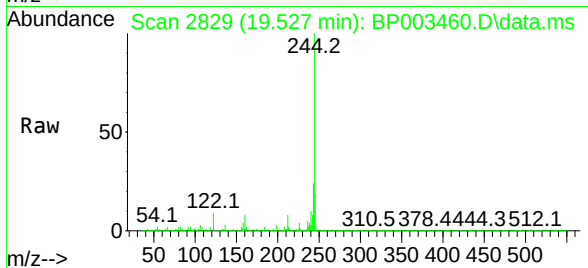




#79  
Terphenyl-d14  
Concen: 48.05 ng  
RT: 19.527 min Scan# 2829  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

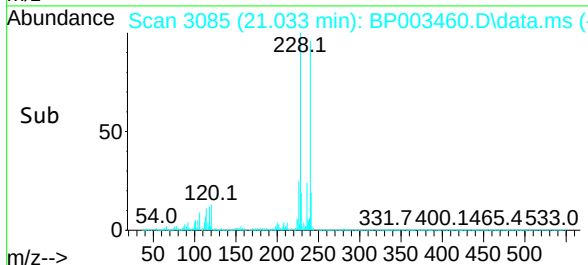
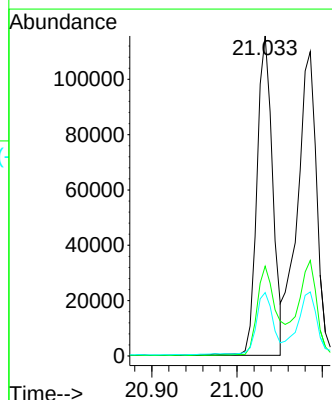
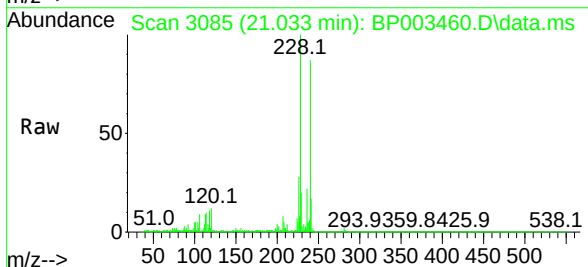
Instrument :  
BNA\_P  
ClientSampled :  
RO-21

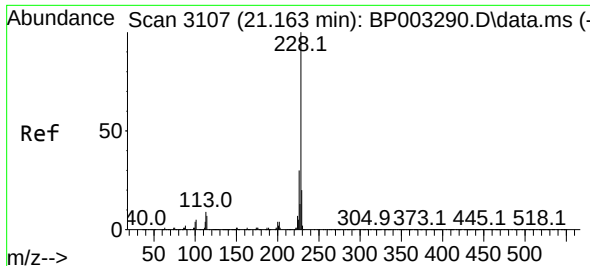
Tgt Ion:244 Resp: 1500152  
Ion Ratio Lower Upper  
244 100  
212 7.7 5.8 8.6  
122 9.0 7.8 11.8



#81  
Benzo(a)anthracene  
Concen: 3.53 ng  
RT: 21.033 min Scan# 3085  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:228 Resp: 148469  
Ion Ratio Lower Upper  
228 100  
226 28.1 22.1 33.1  
229 19.8 15.9 23.9

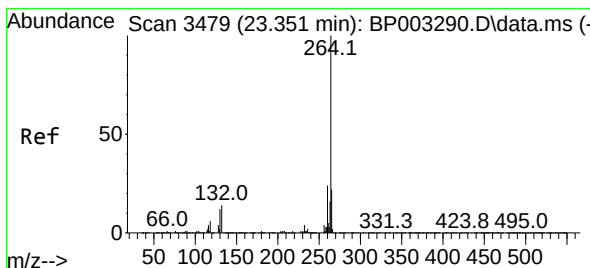
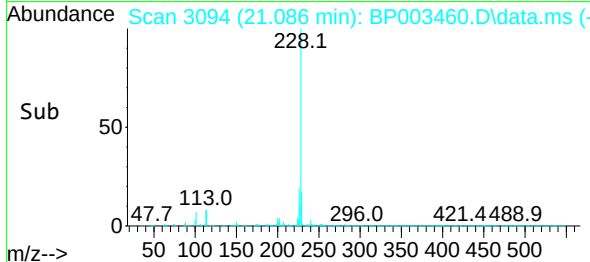
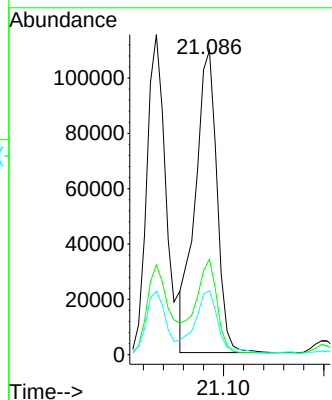
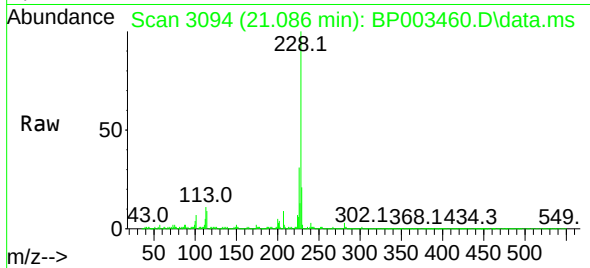




#83  
Chrysene  
Concen: 4.08 ng  
RT: 21.086 min Scan# 3094  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

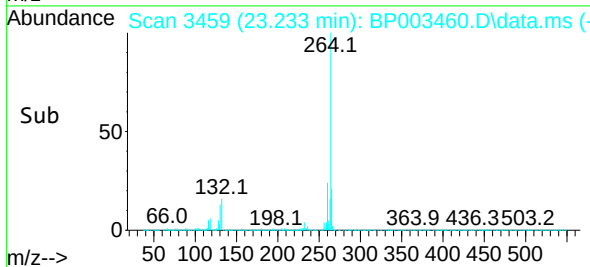
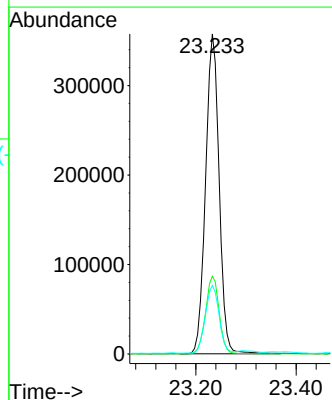
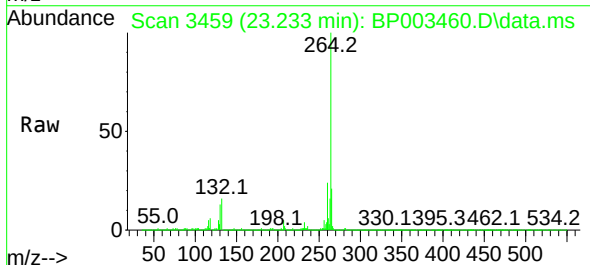
Instrument :  
BNA\_P  
ClientSampled :  
RO-21

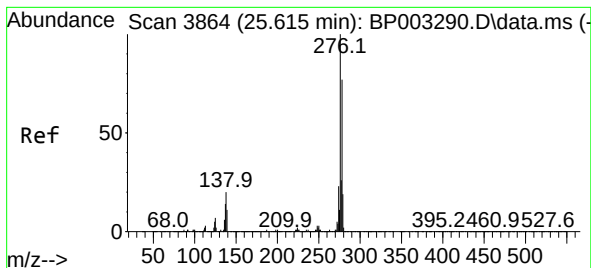
Tgt Ion:228 Resp: 164751  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.4 36.6  
229 21.0 15.8 23.6



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.233 min Scan# 3459  
Delta R.T. -0.000 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:264 Resp: 670515  
Ion Ratio Lower Upper  
264 100  
260 24.3 18.8 28.2  
265 21.5 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.15 ng

RT: 25.450 min Scan# 3836

Delta R.T. -0.012 min

Lab File: BP003460.D

Acq: 02 Oct 2020 15:15

Instrument :

BNA\_P

ClientSampled :

RO-21

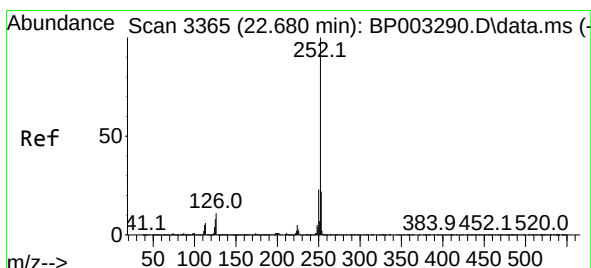
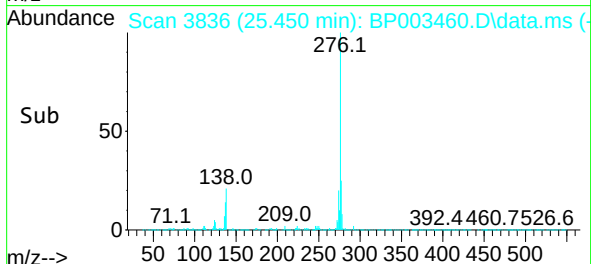
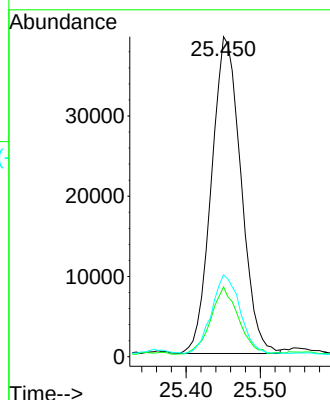
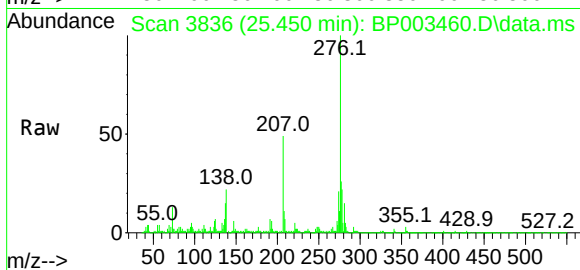
Tgt Ion:276 Resp: 109261

Ion Ratio Lower Upper

276 100

138 19.9 18.7 28.1

277 23.8 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 5.98 ng

RT: 22.580 min Scan# 3348

Delta R.T. -0.000 min

Lab File: BP003460.D

Acq: 02 Oct 2020 15:15

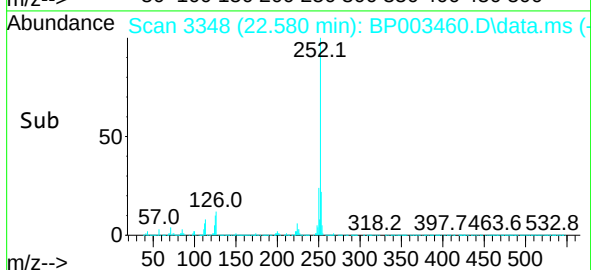
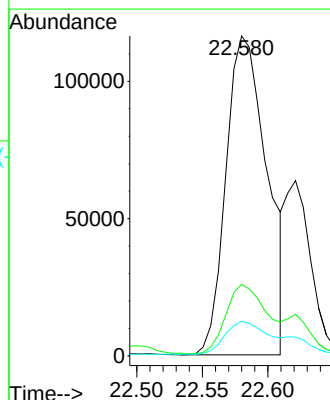
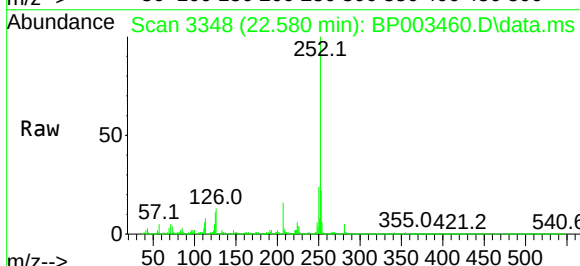
Tgt Ion:252 Resp: 253109

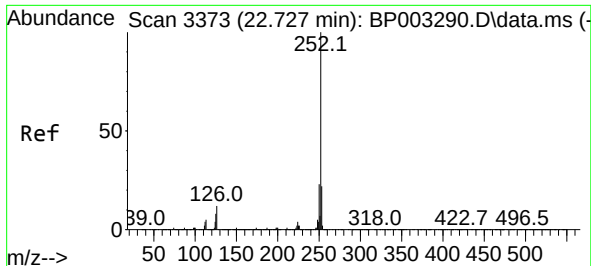
Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

125 10.9 7.3 10.9

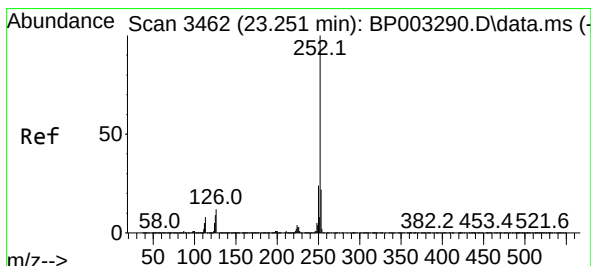
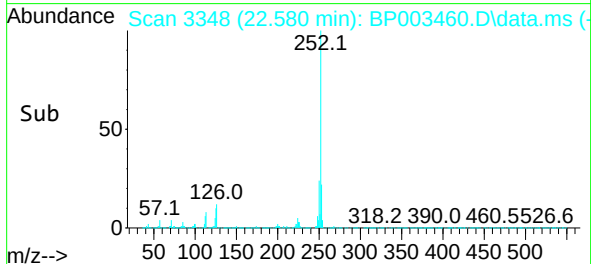
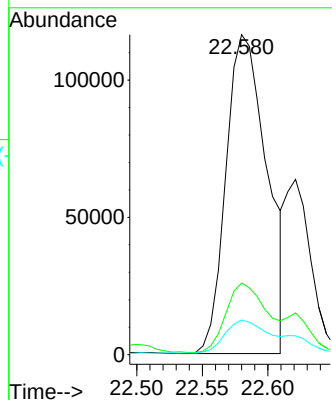
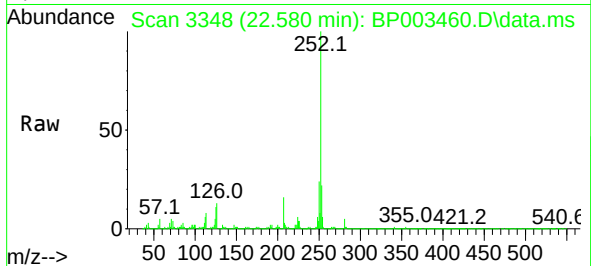




#89  
Benzo(k)fluoranthene  
Concen: 6.24 ng  
RT: 22.580 min Scan# 3348  
Delta R.T. -0.041 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

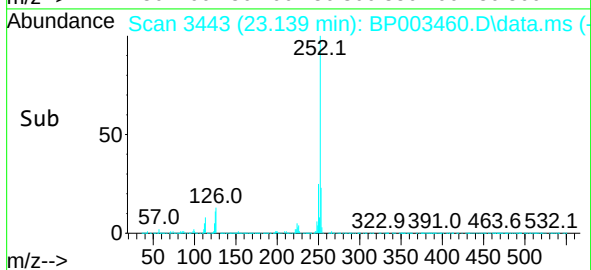
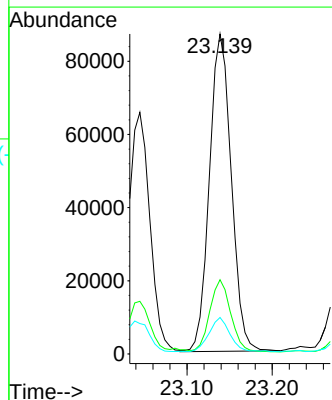
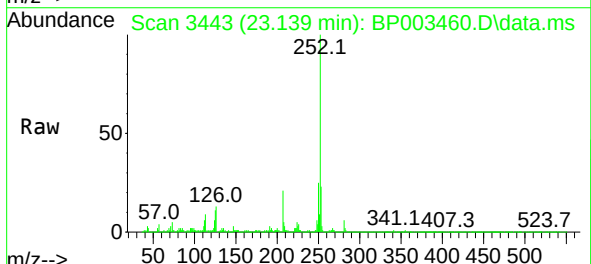
Instrument :  
BNA\_P  
ClientSampleId :  
RO-21

Tgt Ion:252 Resp: 253109  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.8 26.8  
125 10.9 7.4 11.2

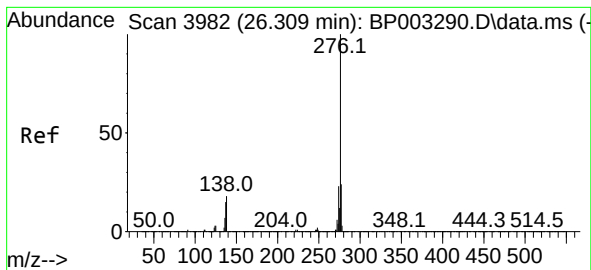


#90  
Benzo(a)pyrene  
Concen: 3.88 ng  
RT: 23.139 min Scan# 3443  
Delta R.T. -0.006 min  
Lab File: BP003460.D  
Acq: 02 Oct 2020 15:15

Tgt Ion:252 Resp: 154870  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.4 26.0  
125 11.4 8.2 12.4

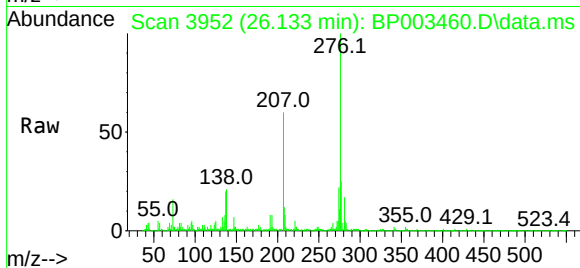






#92  
 Benzo(g,h,i)perylene  
 Concen: 2.46 ng  
 RT: 26.133 min Scan# 3952  
 Delta R.T. -0.000 min  
 Lab File: BP003460.D  
 Acq: 02 Oct 2020 15:15

Instrument :  
 BNA\_P  
 ClientSampleId :  
 RO-21



Tgt Ion: 276 Resp: 102943  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.7  | 19.0  | 28.6  |
| 138 | 20.6  | 16.6  | 24.8  |

