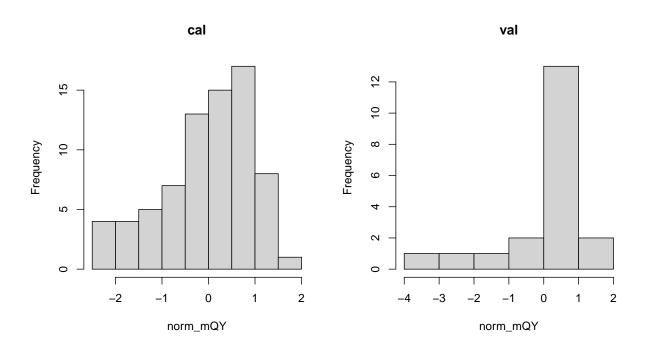
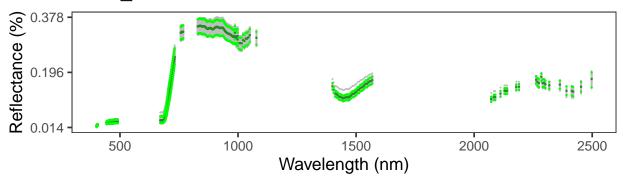
Use side-view HSI data to predict mQY

2023-08-08

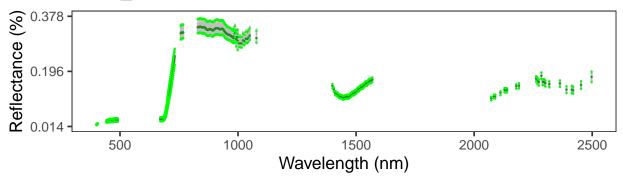
```
## $plsralg
## [1] "oscorespls"
   [1] "906" "931" "948" "943" "940" "920" "919" "937" "941" "907" "910" "917"
  [13] "918" "947" "930" "942" "905" "914" "946" "944" "923" "904" "927" "921"
   [25] "903" "926" "913" "932" "925" "911" "936" "939" "909" "934" "928" "922"
   [37] "929" "950" "984" "972" "989" "964" "983" "992" "981" "965" "976" "971"
   [49] "969" "963" "985" "954" "957" "962" "967" "996" "953" "995" "970" "993"
   [61] "987" "994" "975" "952" "982" "958" "979" "951" "961" "956" "978" "959"
   [73] "990" "980"
   [1] "902" "908" "912" "915" "916" "924" "933" "935" "938" "945" "955" "960"
## [13] "966" "968" "973" "974" "977" "986" "988" "991"
            value
## 344 0.03452470
                  829.5796
## 36 0.03440495 442.8147
## 687 0.03430261 2178.7600
## 220 0.03397651 670.9629
## 704 0.03389868 2273.8000
## 744 0.03387148 2497.5600
```

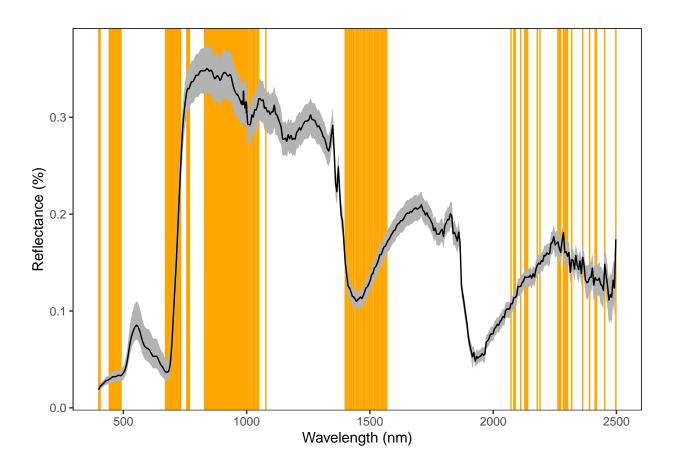


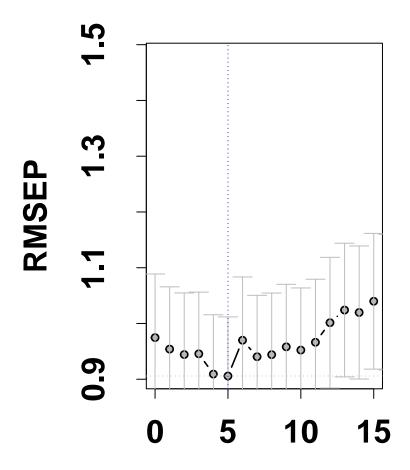
norm_mQY calibration dataset



norm_mQY validation dataset

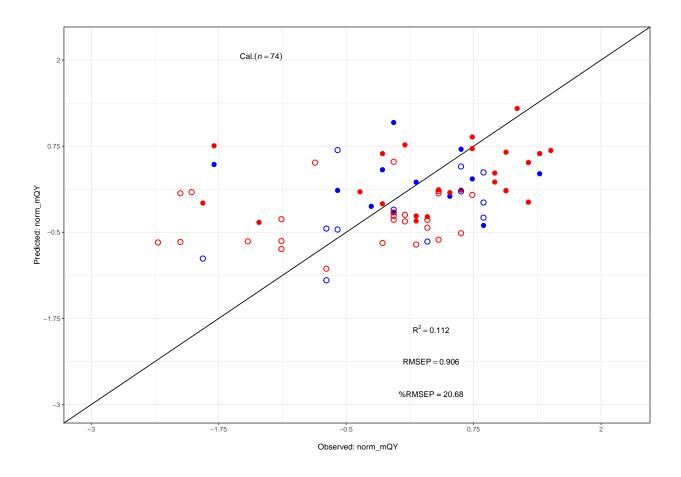


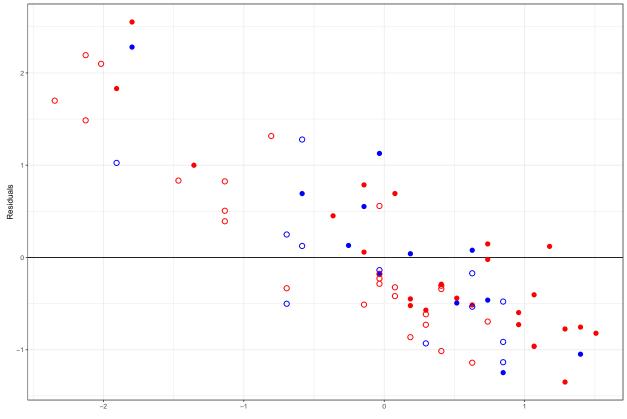


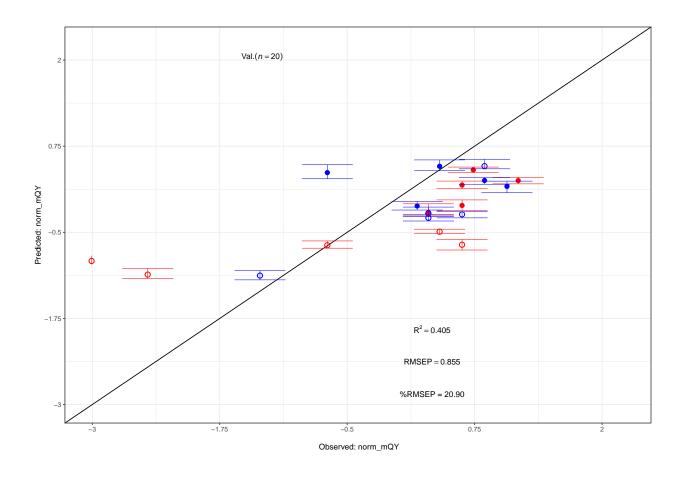


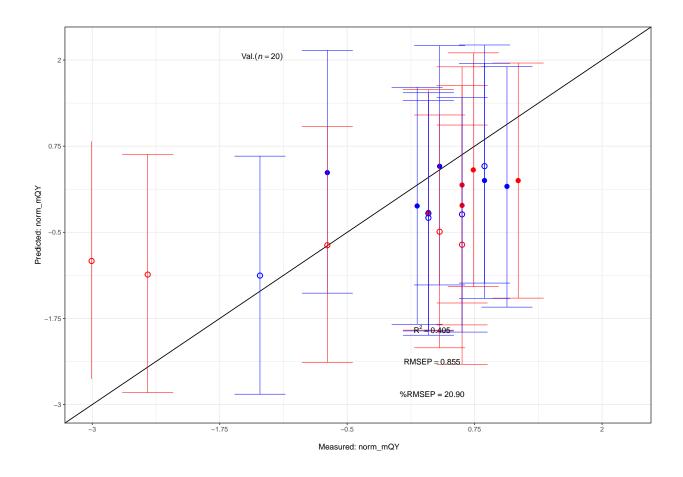
Number of compone

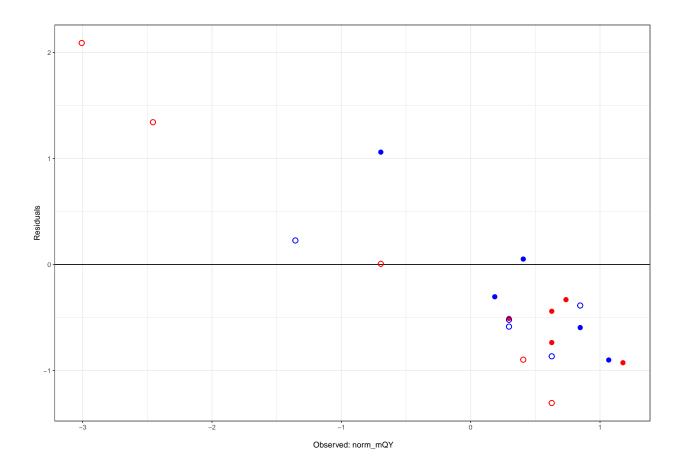
```
data_set
                R2 RMSEP NRMSEP
## 1
         cal 0.112 0.906 23.503
## 2
         val 0.405 0.855 20.423
##
      Observed Predicted
                           Residuals Treatment Subpop
                                                                       lci
## 1 0.4064844 0.4582014 0.05171696
                                           N1
                                                 TRJ
                                                      0.55065258 0.3944822
## 2 0.2963705 -0.2120518 -0.50842225
                                            N1
                                                 IND -0.08677174 -0.2612385
## 3 0.1862566 -0.1179451 -0.30420168
                                           N1
                                                 TRJ -0.05268490 -0.1768263
## 4 -0.6946549 0.3660784 1.06073331
                                                      0.48098280 0.2769884
                                            N1
                                                 TRJ
    0.7368262  0.4054337  -0.33139256
                                            N1
                                                 IND
                                                      0.44682066 0.3681475
    N1
                                                 IND
                                                      0.24346774 0.1319015
##
         upi
                   lpi
## 1 2.209319 -1.264184
## 2 1.571725 -1.919735
## 3 1.605488 -1.834999
## 4 2.140872 -1.382901
## 5 2.104329 -1.289361
## 6 1.901373 -1.526004
```











```
## coefs
## 1445.01 2.247304
## 1473.13 2.074280
## 1456.26 2.323162
## 1439.39 2.090824
## 1495.62 1.609235
## 1467.51 2.359172
```