photobiologyFilters Version 0.3.1 Catalogue of filters

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1	Introduction	

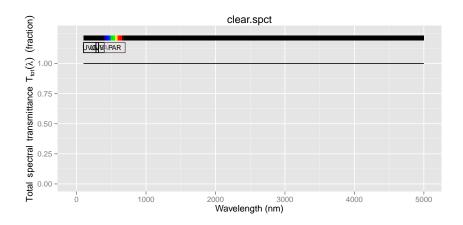
library(ggplot2)
library(photobiologyFilters)
library(photobiologygg)

```
options(photobiology.plot.annotations = c("boxes", "labels", "colour.guide", "title"))
```

2 Dummy filters

2.1 Perfectly clear filter

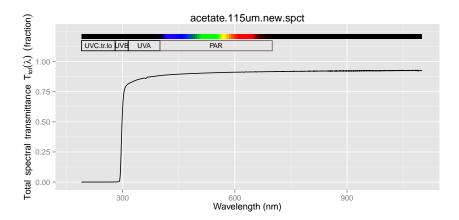
plot(clear.spct)

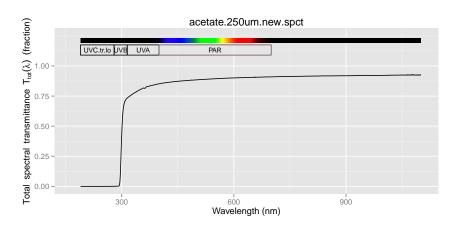


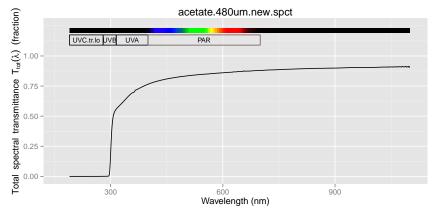
3 Plastic films

3.1 Cellulose diacetate

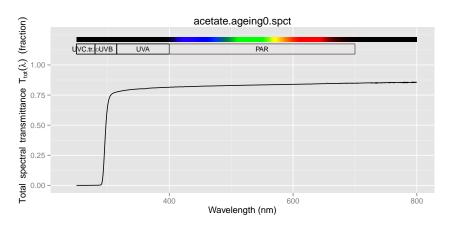
```
plot(acetate.115um.new.spct)
plot(acetate.250um.new.spct)
plot(acetate.480um.new.spct)
```

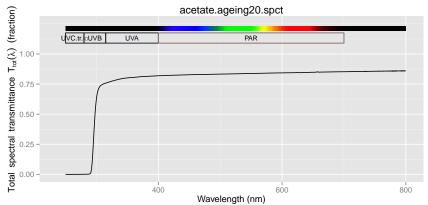


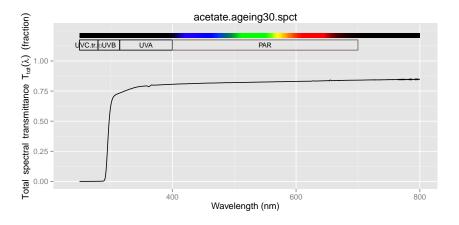


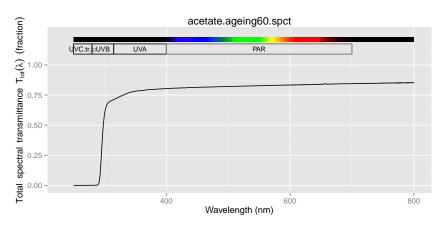


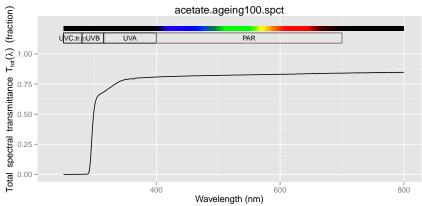
```
plot(acetate.ageing0.spct)
plot(acetate.ageing30.spct)
plot(acetate.ageing60.spct)
plot(acetate.ageing60.spct)
plot(acetate.ageing100.spct)
plot(acetate.ageing180.spct)
plot(acetate.ageing300.spct)
```

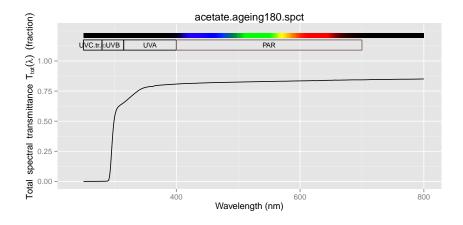


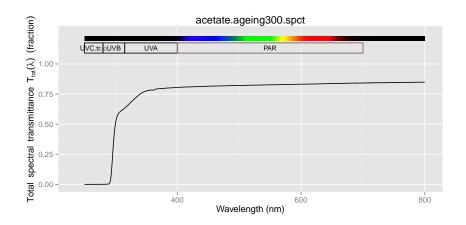






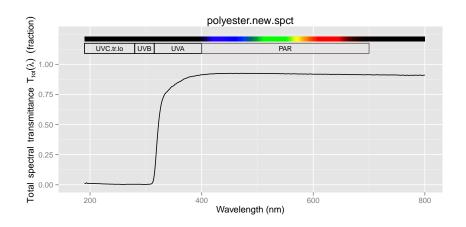






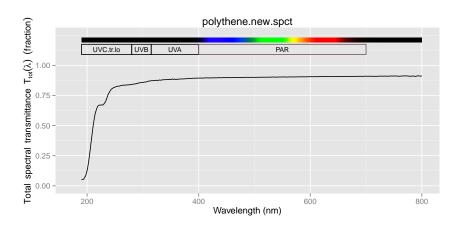
3.2 Polyester

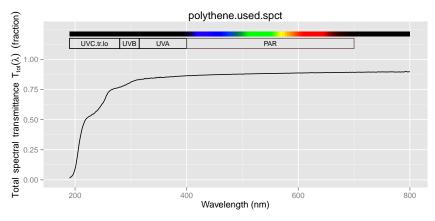
plot(polyester.new.spct)



3.3 Polythene

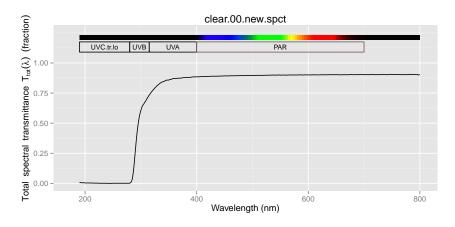
```
plot(polythene.new.spct)
plot(polythene.used.spct)
```

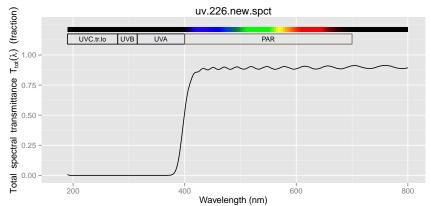


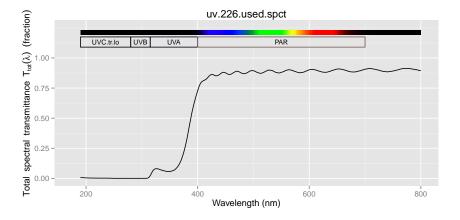


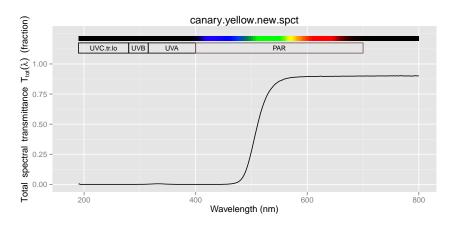
3.4 Rosco theatrical filters

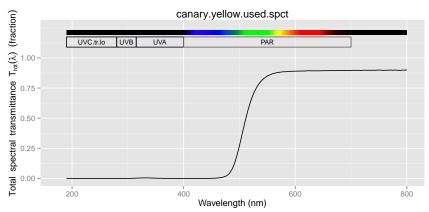
```
plot(clear.00.new.spct)
plot(uv.226.new.spct)
plot(uv.226.used.spct)
plot(canary.yellow.new.spct)
plot(canary.yellow.used.spct)
plot(moss.green.new.spct)
plot(moss.green.used.spct)
plot(rose.pink.new.spct)
plot(neon.pink.used.spct)
```

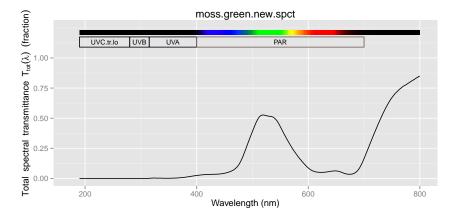


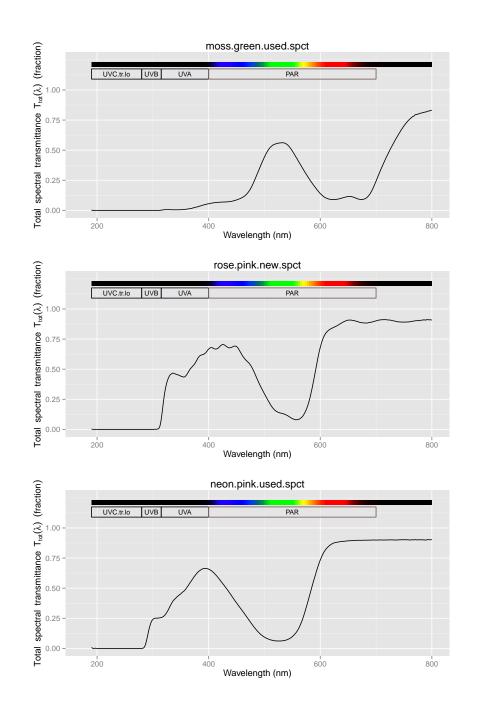




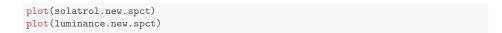


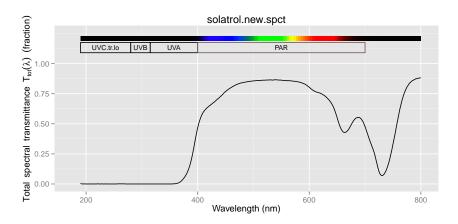


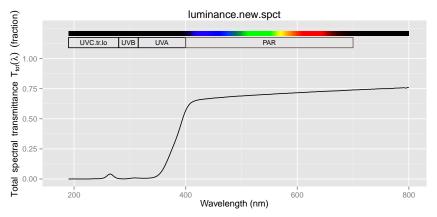




3.5 Commercial greenhouse films from BPI Agri Visqueen



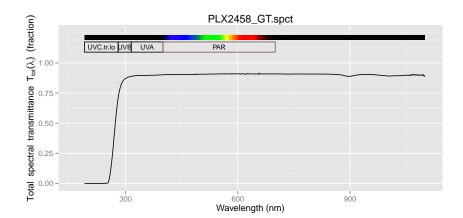


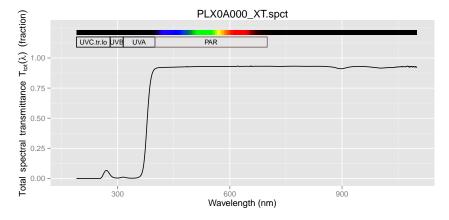


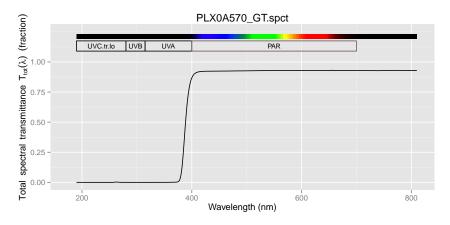
4 Plastic sheets

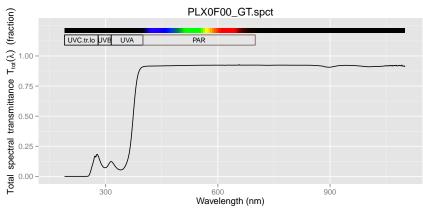
4.1 Plexiglas

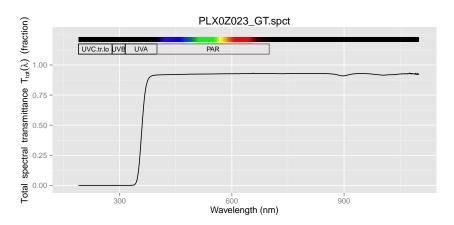
```
plot(PLX2458_GT.spct)
plot(PLX0A000_XT.spct)
plot(PLX0A570_GT.spct)
plot(PLX0F00_GT.spct)
plot(PLX0F00_GT.spct)
```



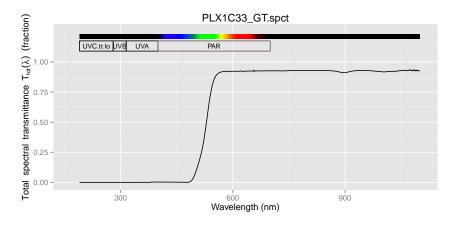


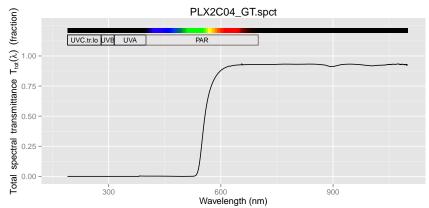


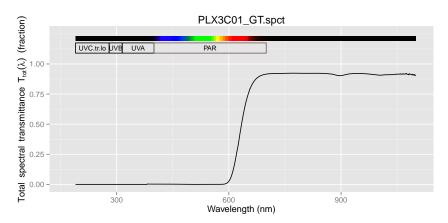


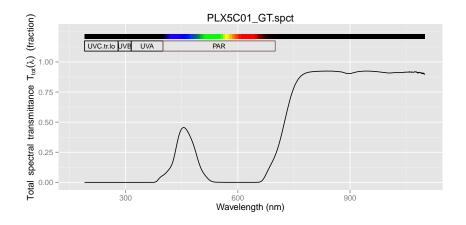


```
plot(PLX1C33_GT.spct)
plot(PLX2C04_GT.spct)
plot(PLX3C01_GT.spct)
plot(PLX5C01_GT.spct)
```

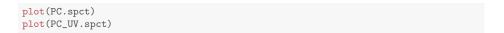


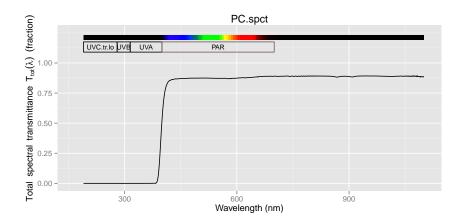


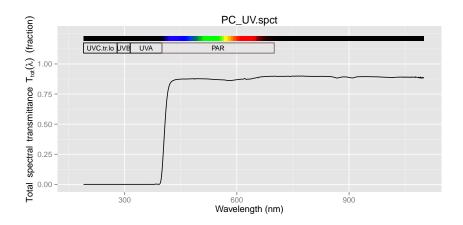




4.2 Polycarbonate

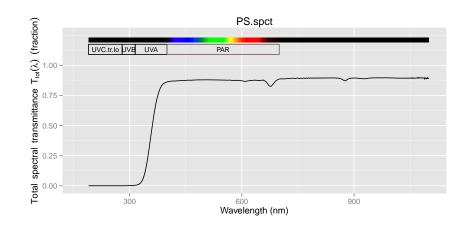






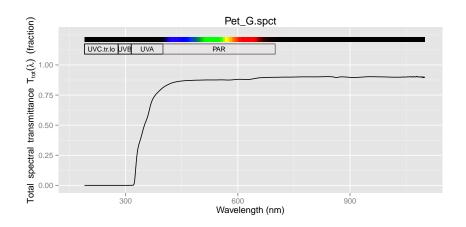
4.3 Polyestyrene

plot(PS.spct)

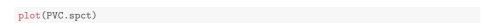


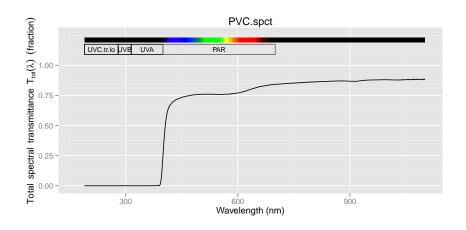
4.4 Polyester

plot(Pet_G.spct)



4.5 Polyvinilchloride

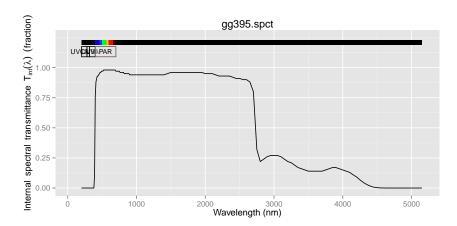


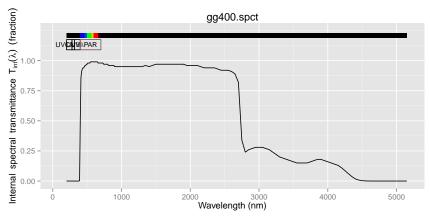


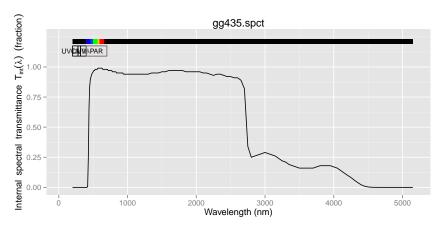
5 Optical glass filters

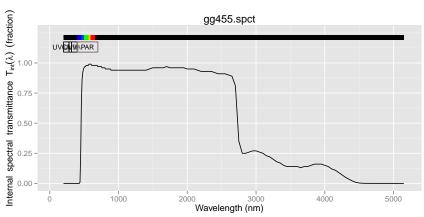
5.1 Schott long-pass filters

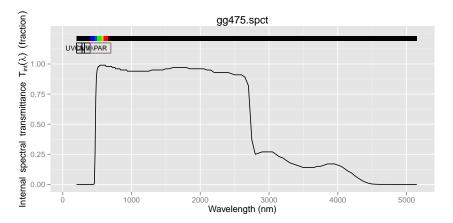
```
plot(gg395.spct)
plot(gg400.spct)
plot(gg435.spct)
plot(gg455.spct)
plot(gg475.spct)
plot(gg495.spct)
```

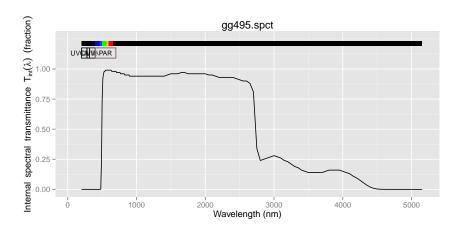




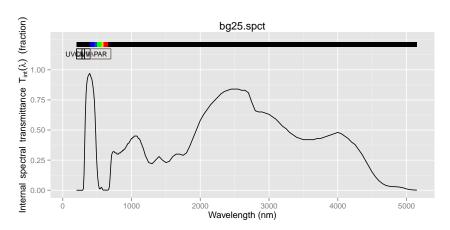


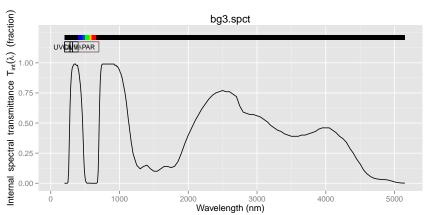


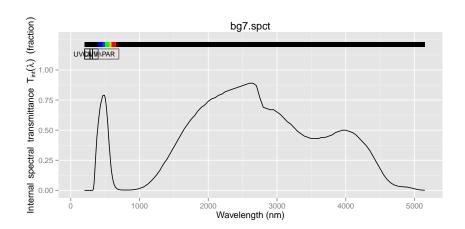




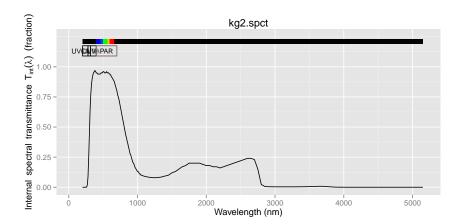
plot(bg25.spct)
plot(bg3.spct)
plot(bg7.spct)

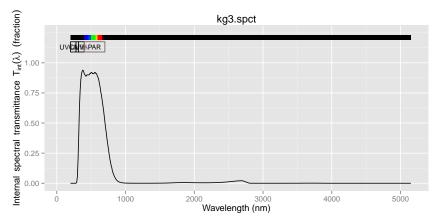


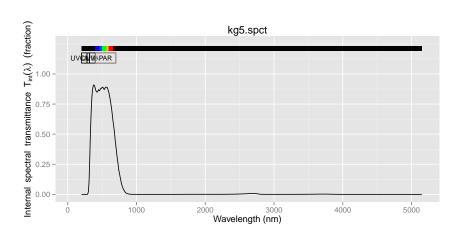




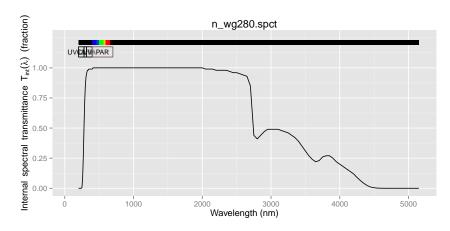
plot(kg2.spct)
plot(kg3.spct)
plot(kg5.spct)

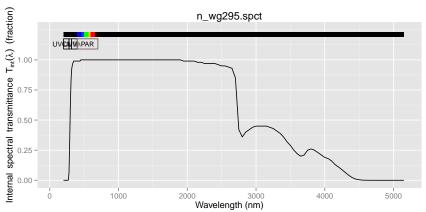


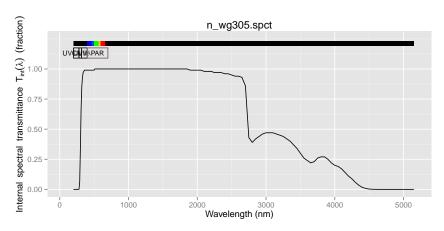


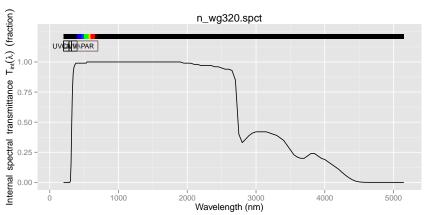


```
plot(n_wg280.spct)
plot(n_wg295.spct)
plot(n_wg305.spct)
plot(n_wg320.spct)
```

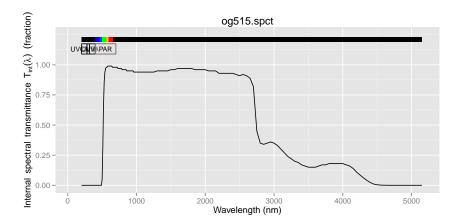


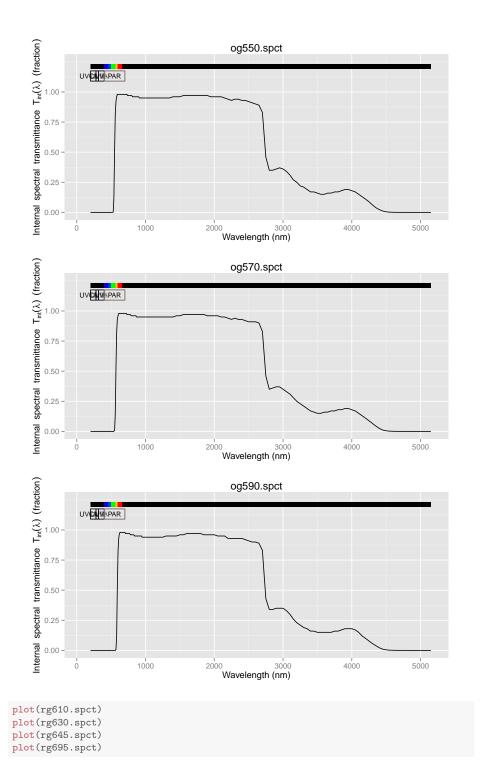




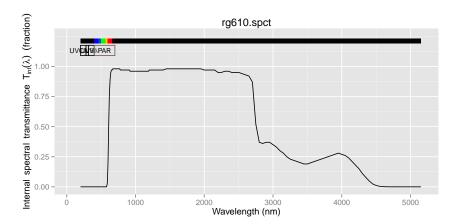


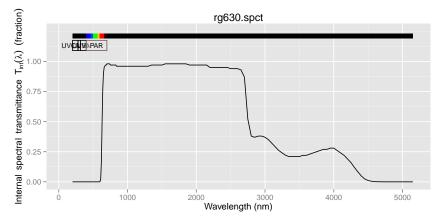
```
plot(og515.spct)
plot(og550.spct)
plot(og570.spct)
plot(og590.spct)
```

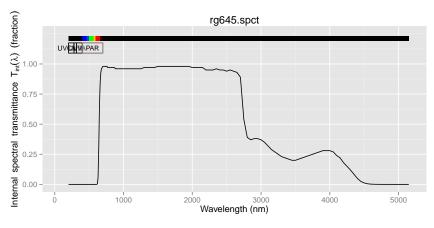


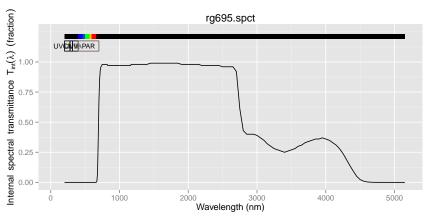


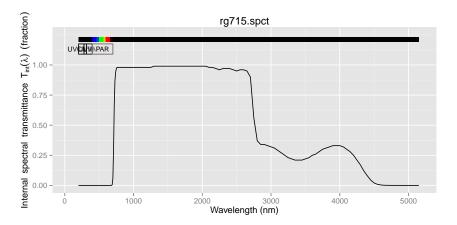
```
plot(rg715.spct)
plot(rg780.spct)
plot(rg830.spct)
plot(rg850.spct)
plot(rg9.spct)
```

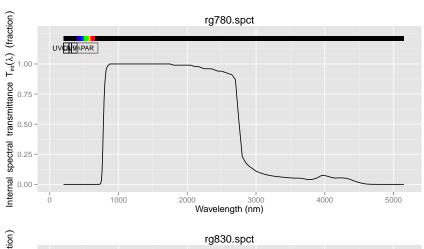


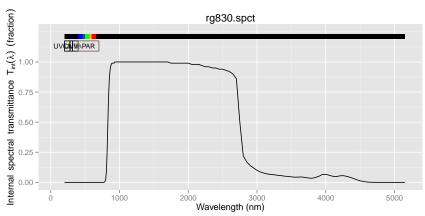


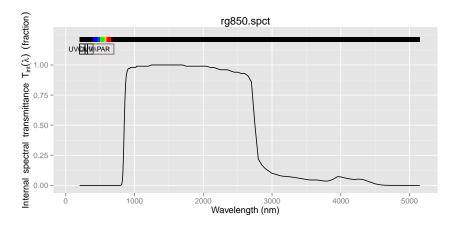


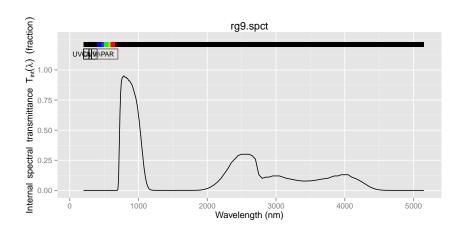






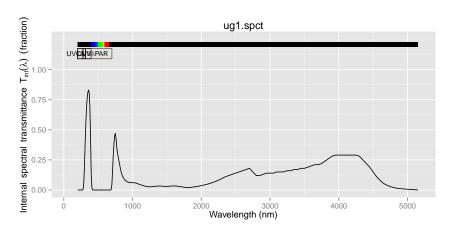


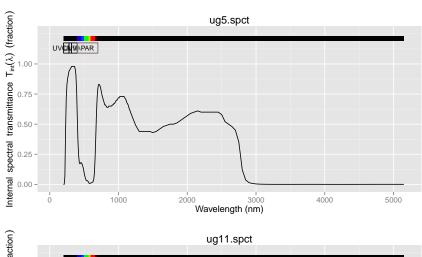


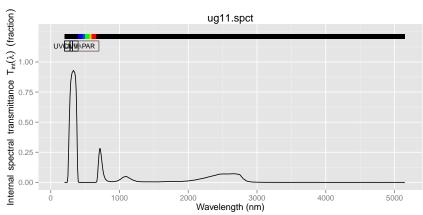


5.2 Schott band-pass filters

```
plot(ug1.spct)
plot(ug5.spct)
plot(ug11.spct)
```







6 Petri dishes

```
plot(Petri_dish_PS_101.spct)
plot(Petri_dish_PS_109.spct)
plot(Petri_dish_glass.spct)
```

