

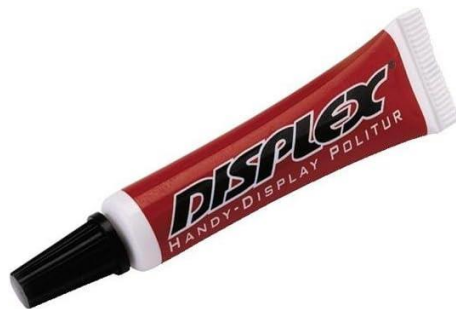
Polishing the scratched display of a R&S FSH6 spectrum analyzer

Matthias, DD1US, November 11th 2024, rev 1.0

Recently I acquired second hand a portable FSH6 spectrum analyzer from Rohde & Schwarz. The unit showed some signs of extensive use but overall, it was in a reasonable shape and technically fully intact.

After cleaning the encasing of the unit there was still the display which showed many scratches. Most of them were very small and some were medium sized. Especially the micro-scratches degraded the transparency of the display / made it opaque and I looked for a way to improve this. To be precise, I am not really talking about the display itself but about the transparent plastic cover which protects the display unit behind.

After some research for a possible solution I ended up buying a tube of “DISPLEX Handy-Display Politur” © for less than 10 Euro.

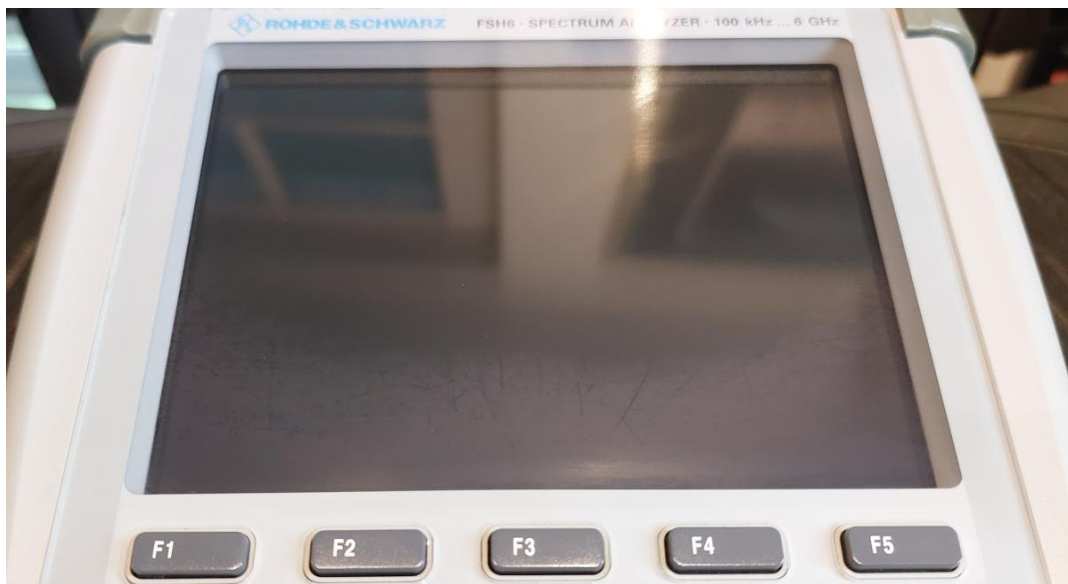


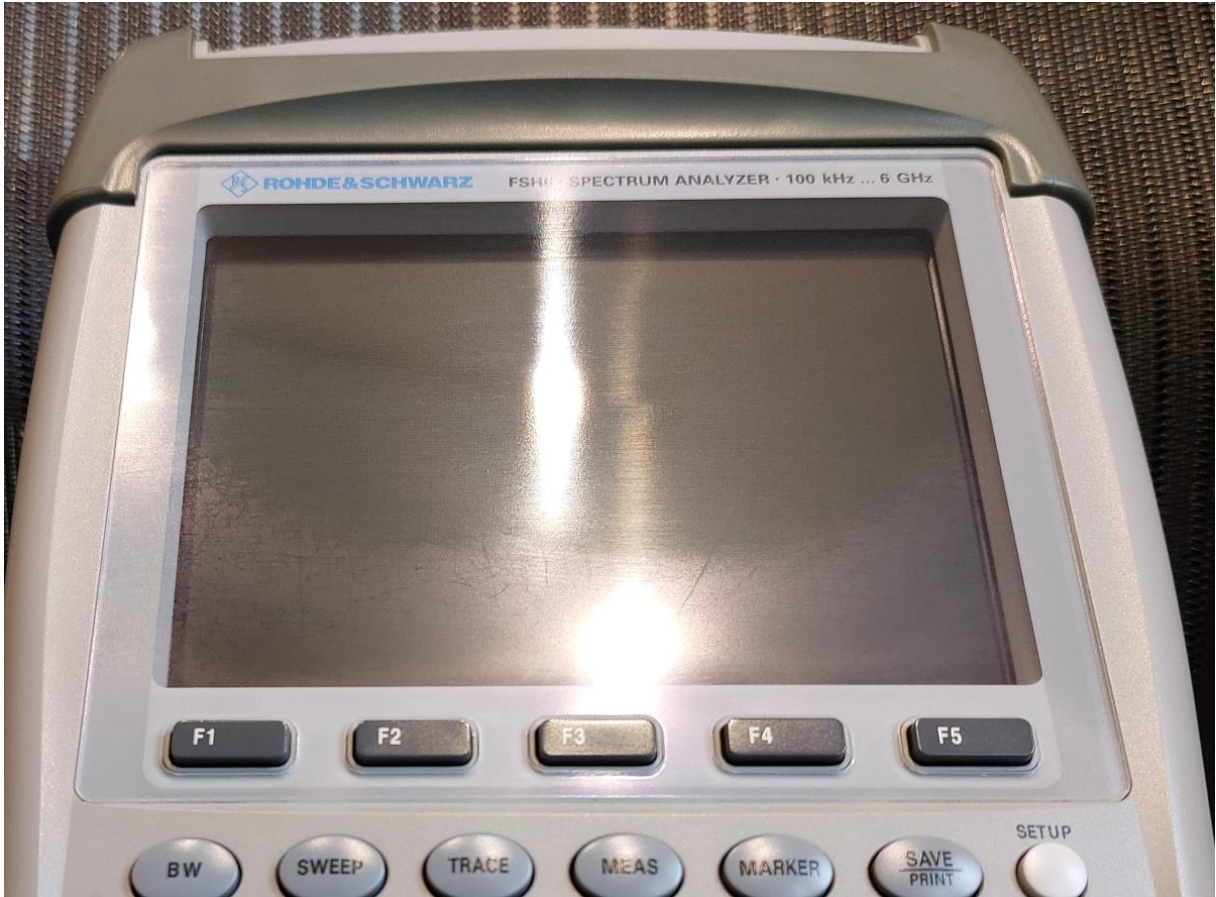
Online reviews about this solution were kind of mixed but apparently the best results were achieved with older displays which are softer and thus more prone to scratches. Newer display covers are usually harder and thus the scratches are harder to get rid of.

The instructions printed on the tube state, that “DISPLEX Handy-Display Politur” © must not be used with touch displays nor displays made from Polycarbonate “PC”. The FSH6 does clearly not feature a touch display but I did not know, whether the display might be made from Polycarbonate. Thus, I made some initial tests polishing a corner of the cover outside the actual area of the display behind.

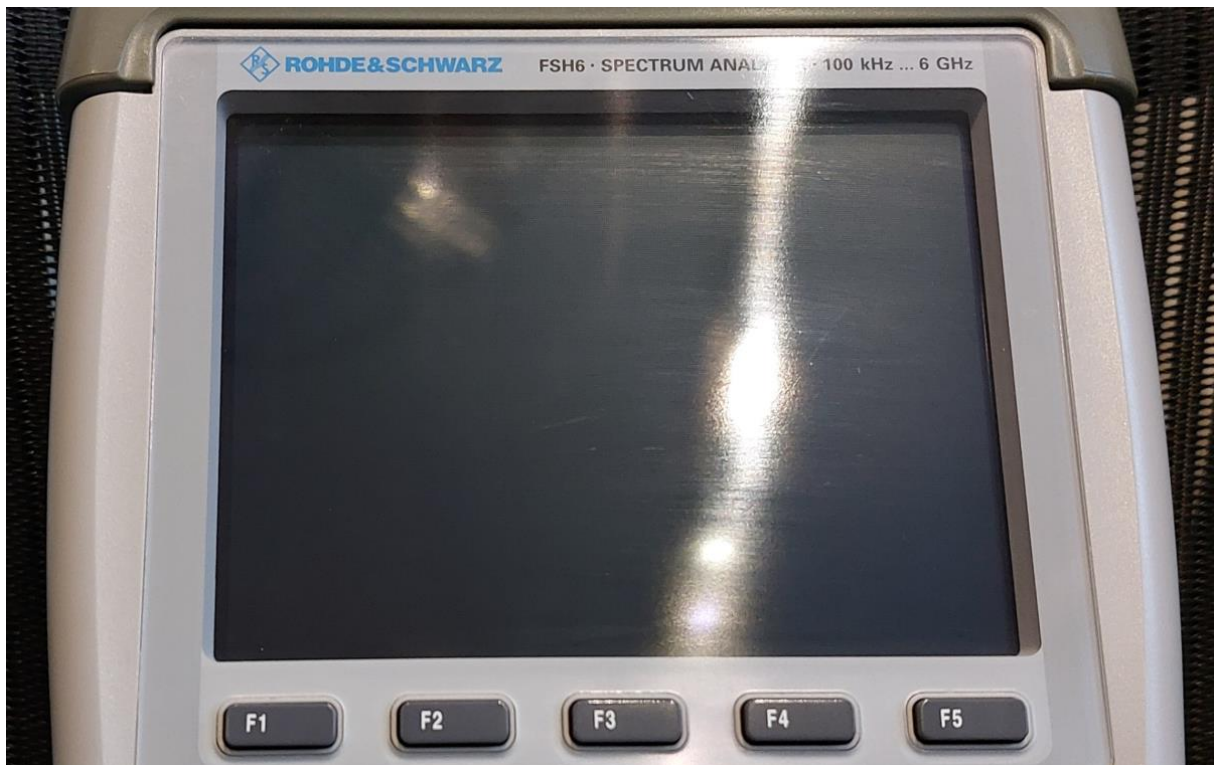
Fortunately, it turned to look good and thus I extended the polishing exercise to the whole display cover. I dispensed some polishing agent on the display and polished it using a piece of cotton cloth which I had received with the tube.

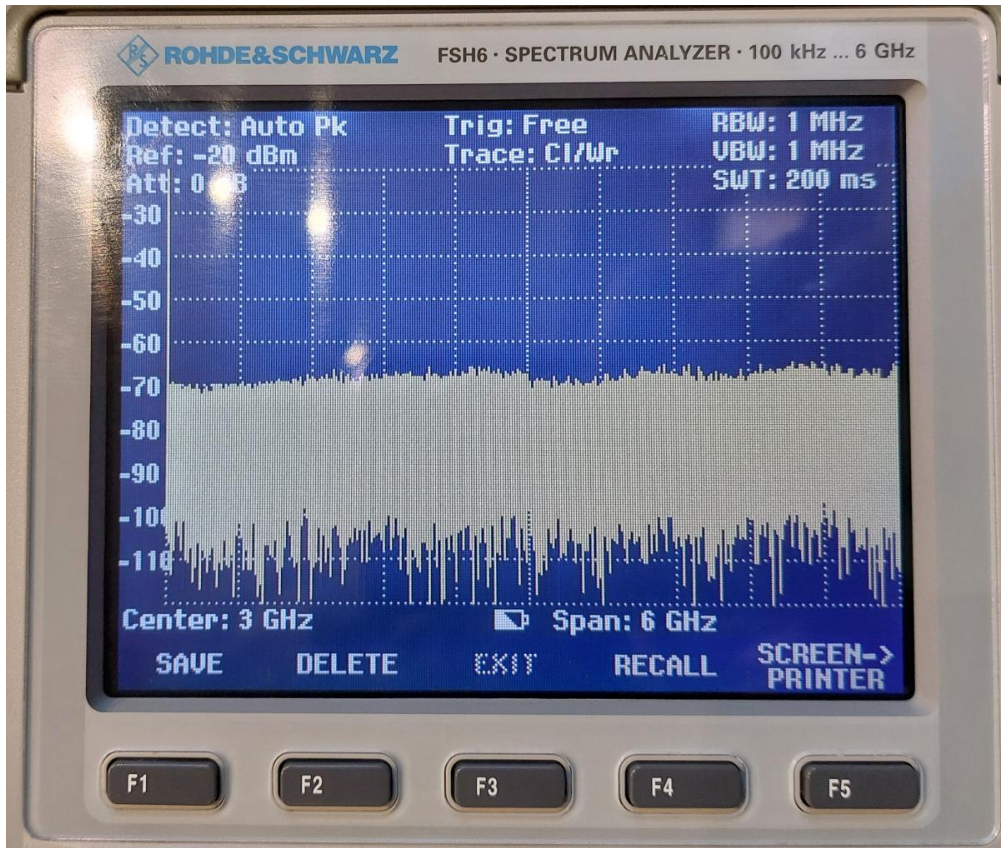
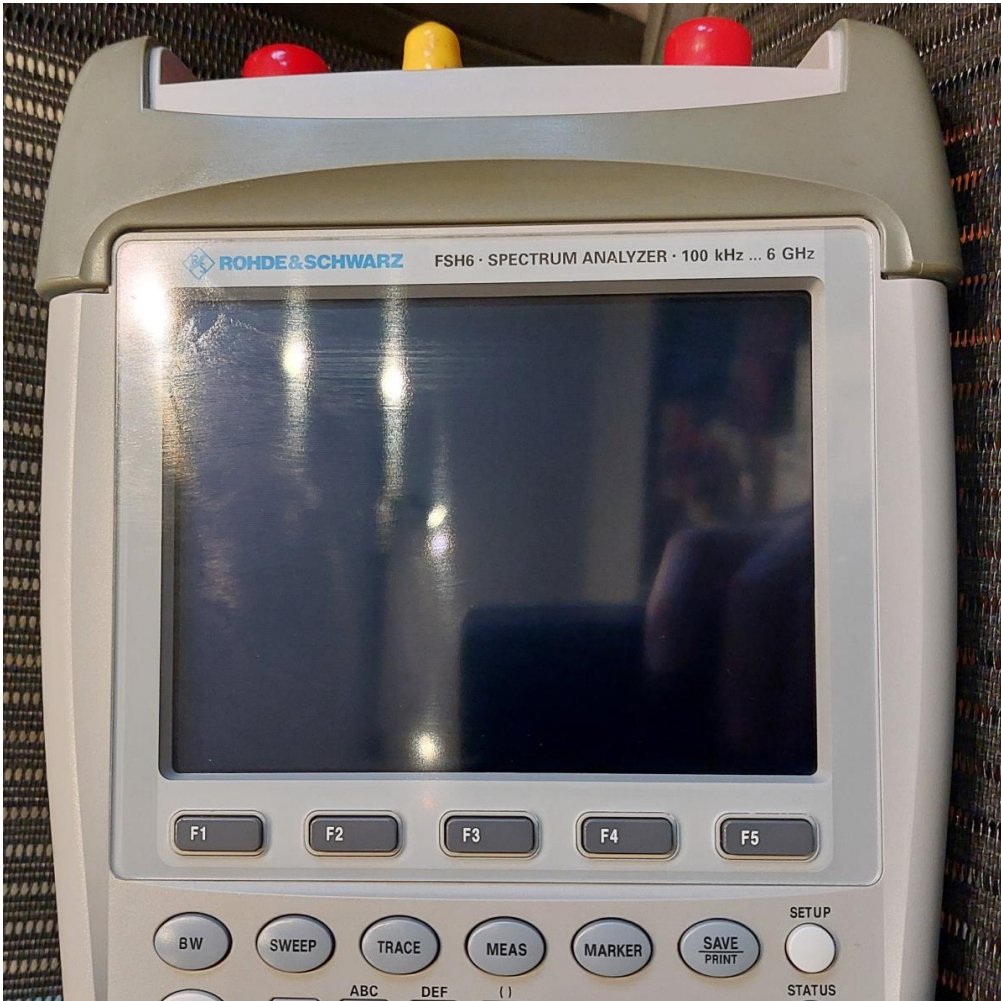
Here is a picture of the display after polishing the upper half of the display. You can see that the lower parts is still opaque because of the many micro-scratches.



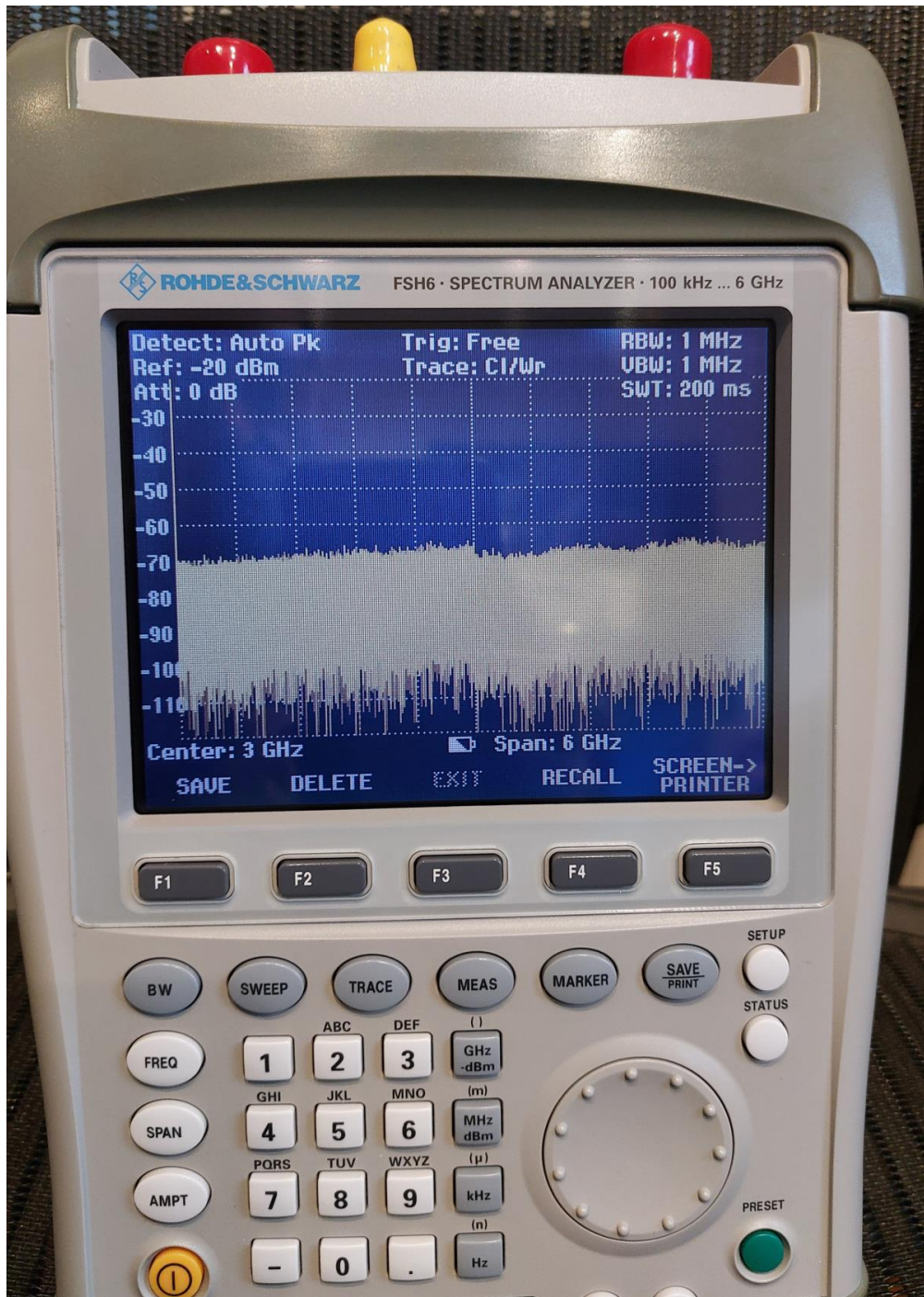


After polishing the complete display all the micro-scratches and most of the medium scratches had been gone.





Sorry for not taking more time to take better pictures but nevertheless I think the difference is quite obvious. When switching on the spectrum analyzer the display is now very clear.



In summary I am extremely happy with the result. If other polisher will get the same results is quite possible but I did not try and thus do not know for sure. Make sure you test the compatibility of your polisher and your display at a small portion of the display before applying it to the full display. The material may have changed compared to my unit.

I am always grateful to get feedback and will be happy to answer questions.

Please direct them to the Email address, which you find below.

Best regards

Matthias DD1US

Email: matthias.bopp@dd1us.de

Homepage: <http://www.dd1us.de>