

EMC

Brugen af spektrum- og network-analyser

2014

Lkaa



Forskellen mellem spektrum- og network-analyser

Spektrum analyser

- Modtager kun signaler og viser dem på skærmen
- Benyttes til:
 - Antennesignaler
 - Støj

Network analyser

- Består af både en modtager og en sender
- Benyttes til:
 - HF forstærkere
 - Filter karakteristikker
 - Refleksioner

Forskellen mellem spektrum- og network-analyser

Spektrum analyser

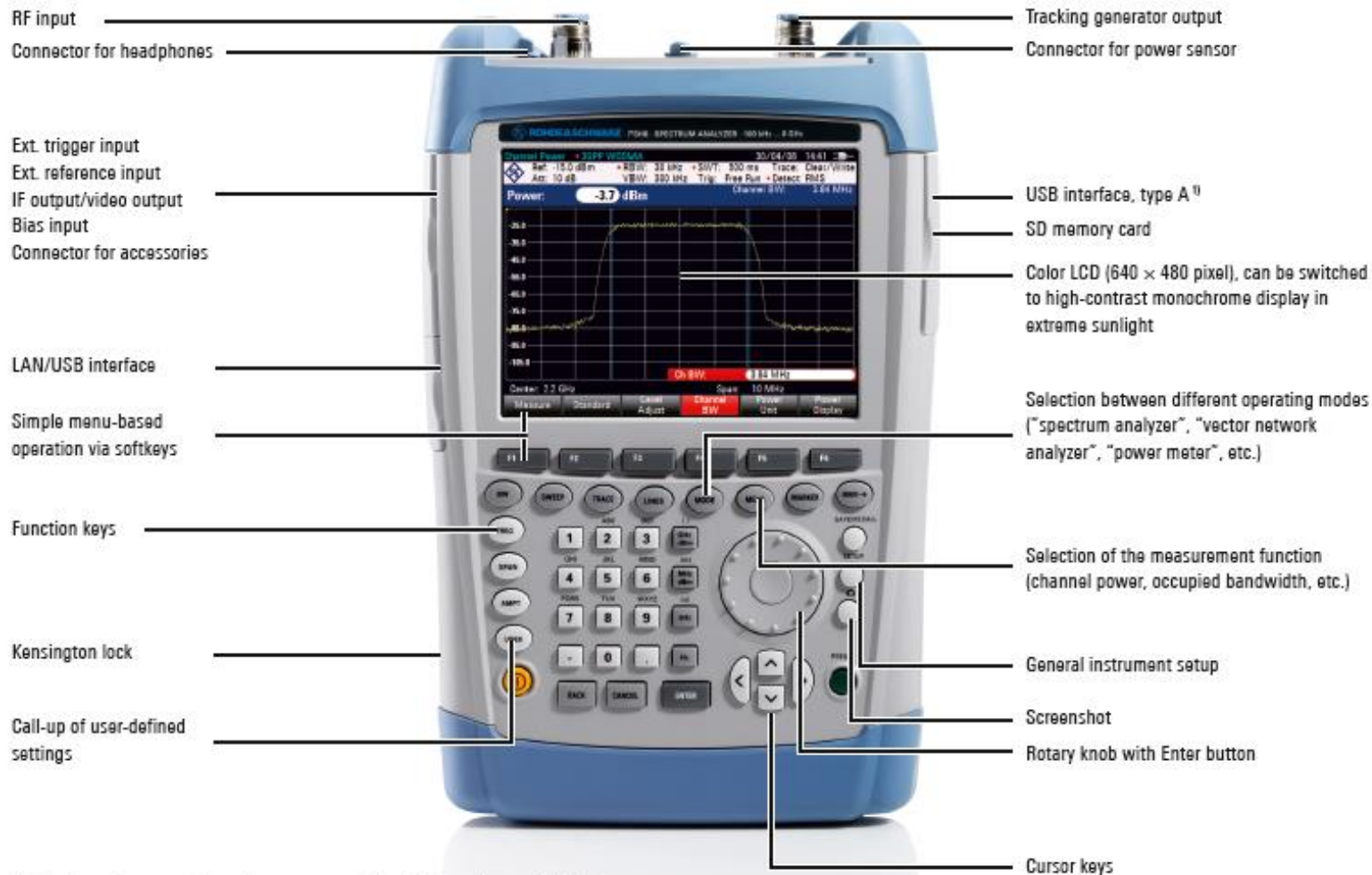


Network analyser

– DUT

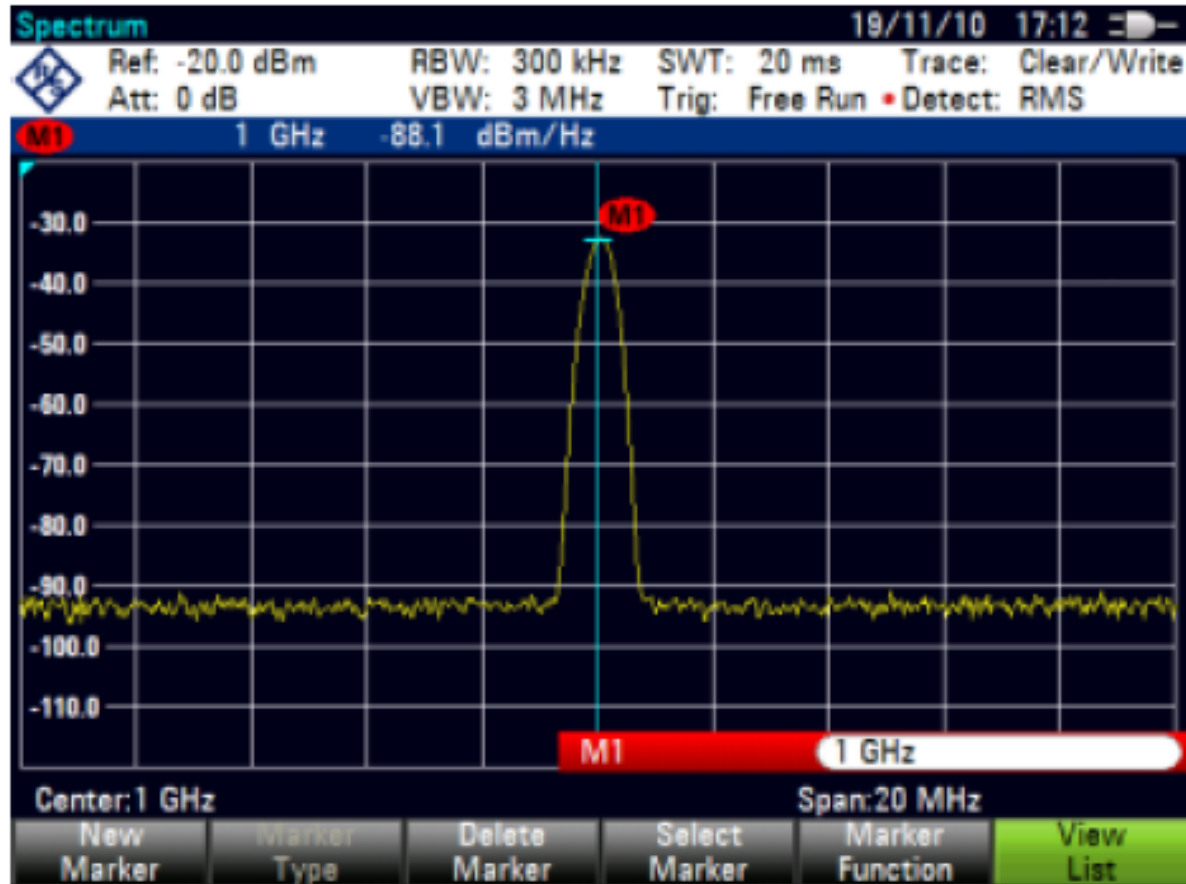


Front view



¹⁾ Interface integrated into instruments with serial numbers ≥ 105000 .
For connecting the R&S®NRP-Zxx power sensors and USB sticks.

Skærm visning



Spektrum analyser

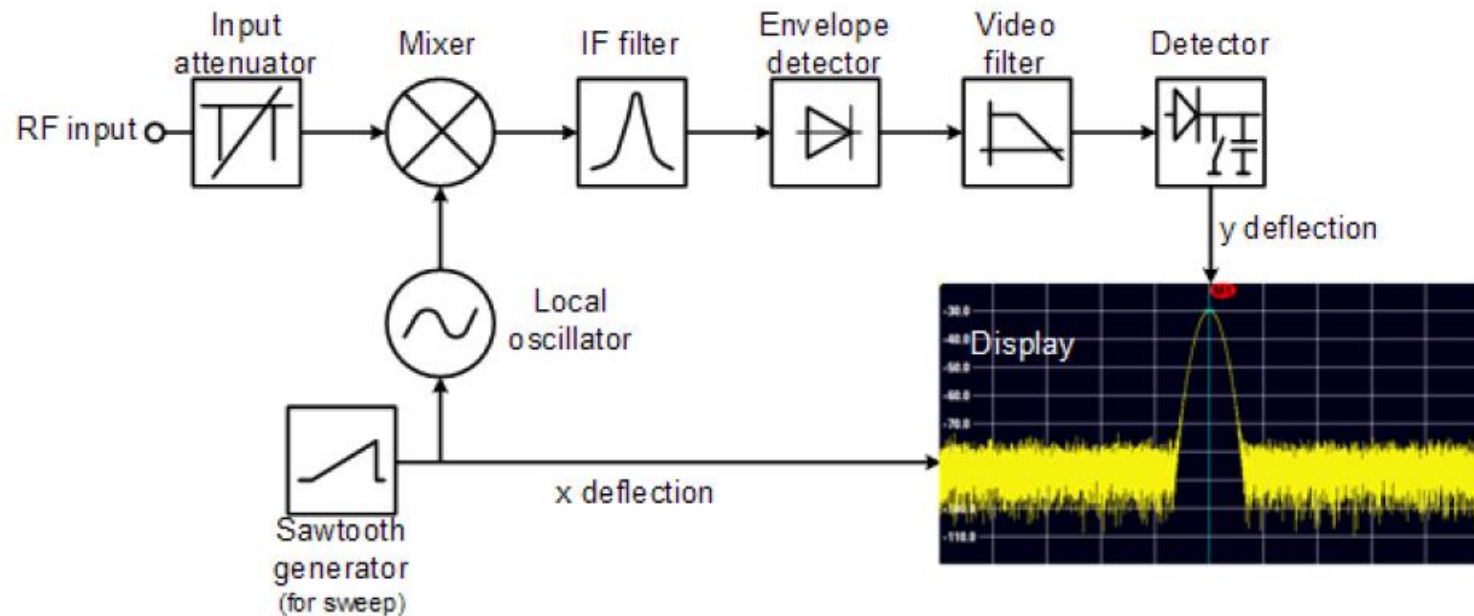
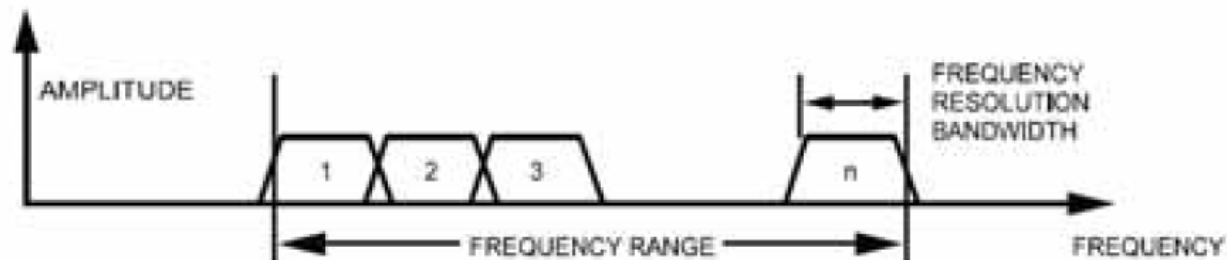
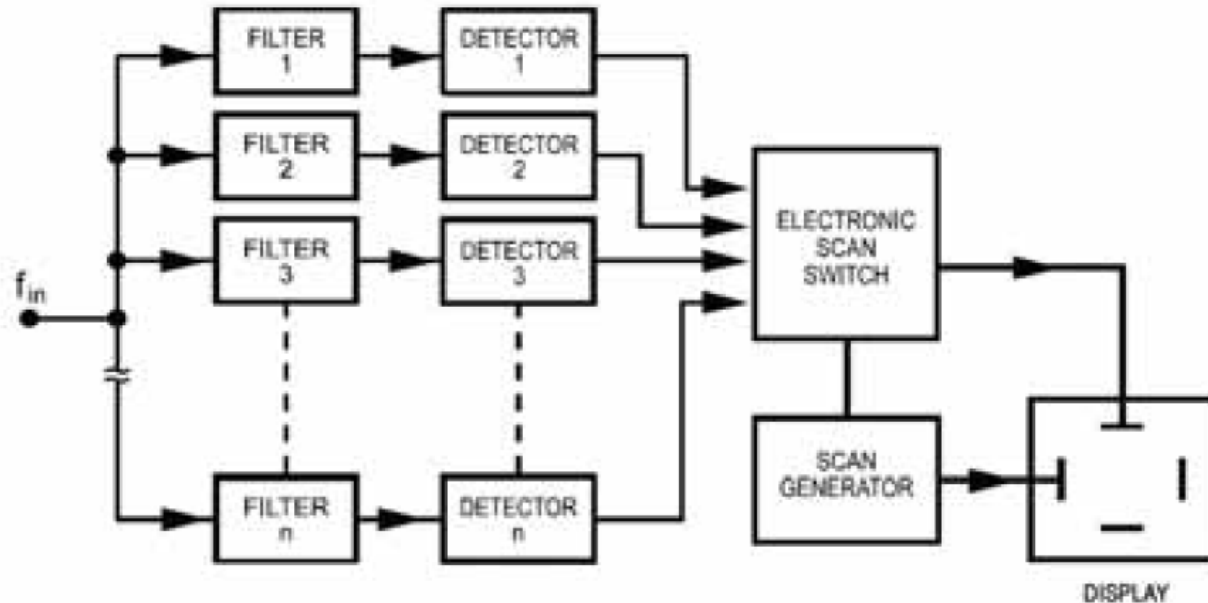
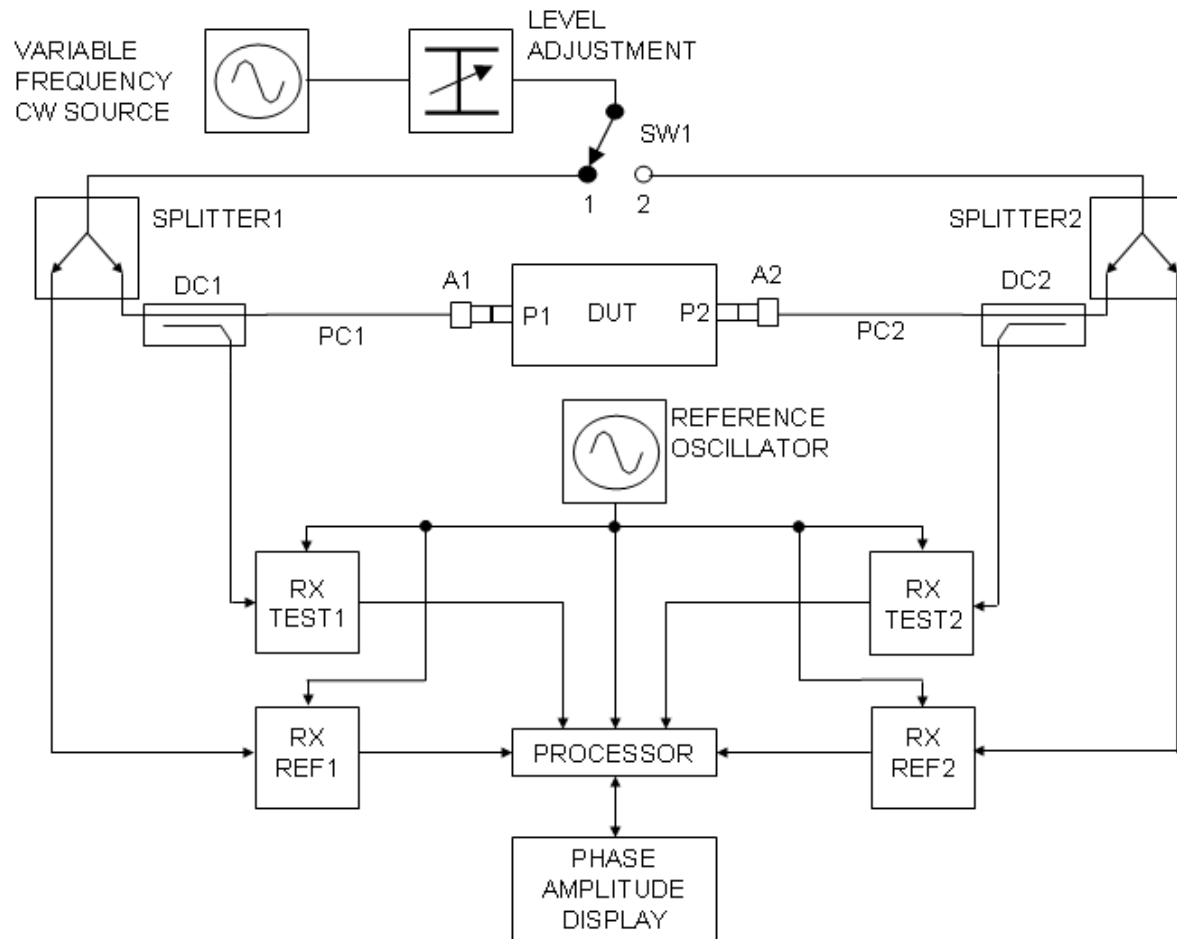


Figure 11-2: Block diagram showing the basic functionality of a spectrum analyzer

Spektrum analyser



Network analyser



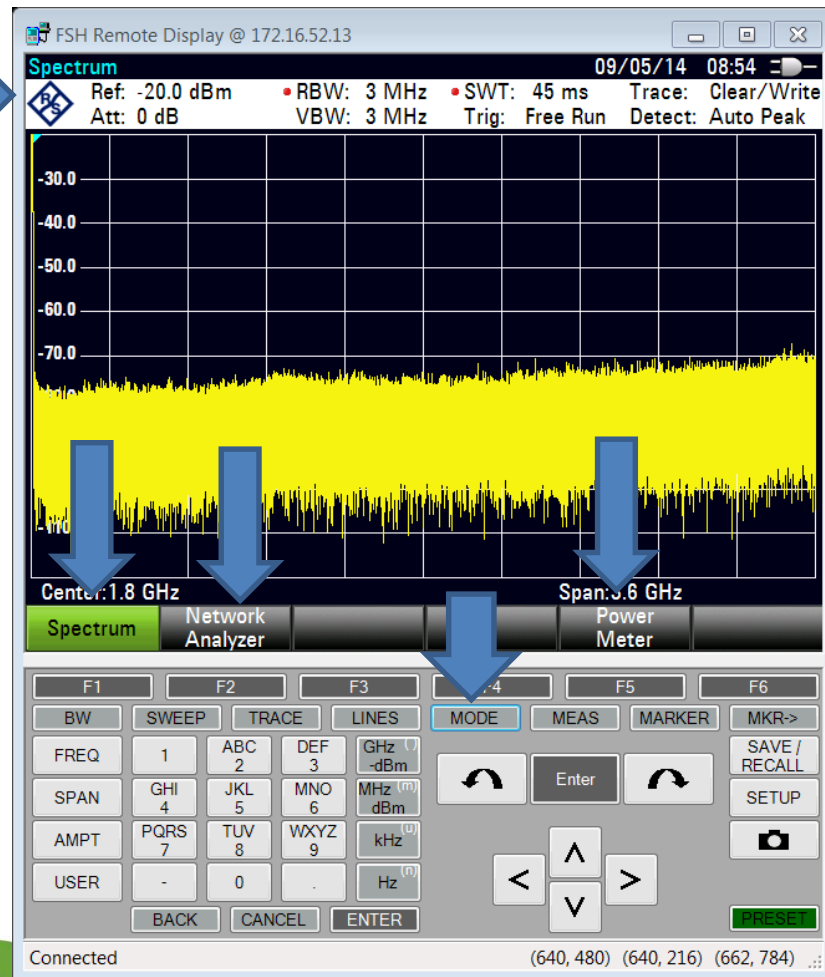
Støj måling



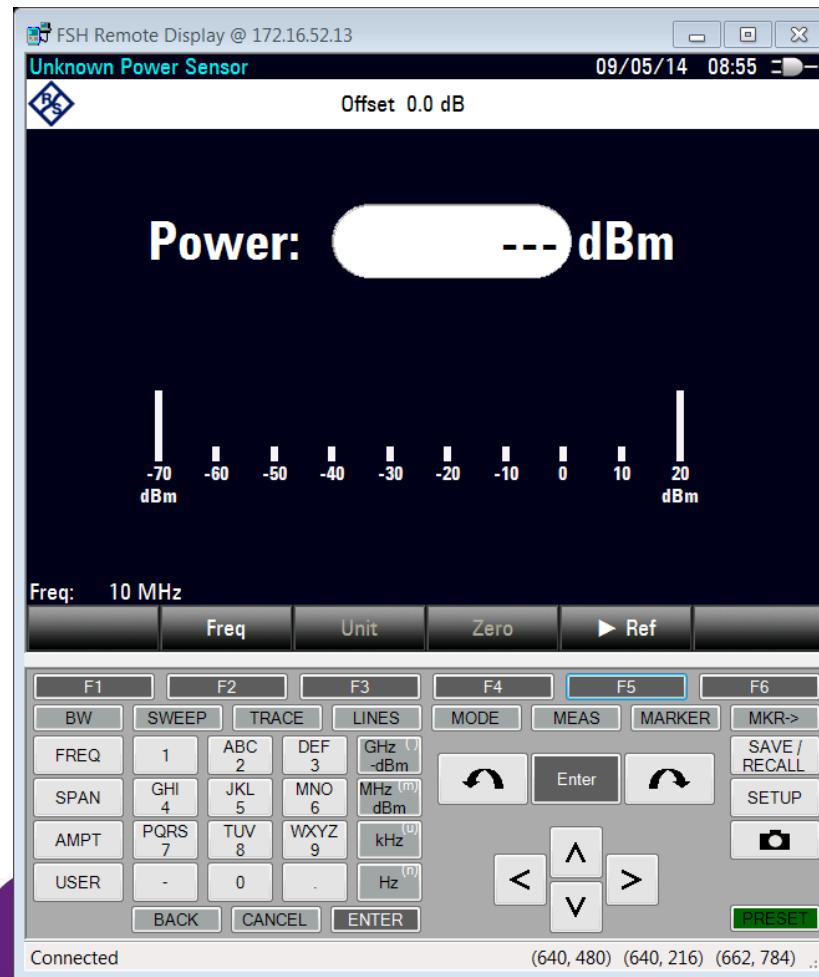
The R&S®FSH with isotropic antennas.

Mode

Oversigt over opsætning



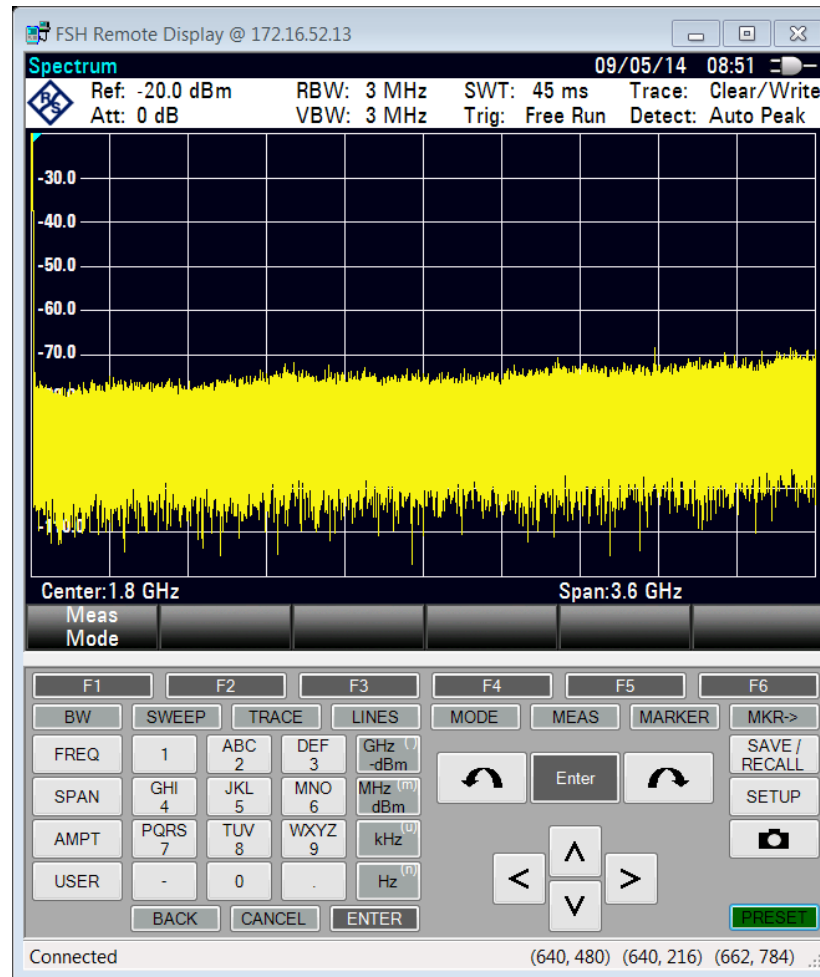
Powermeter



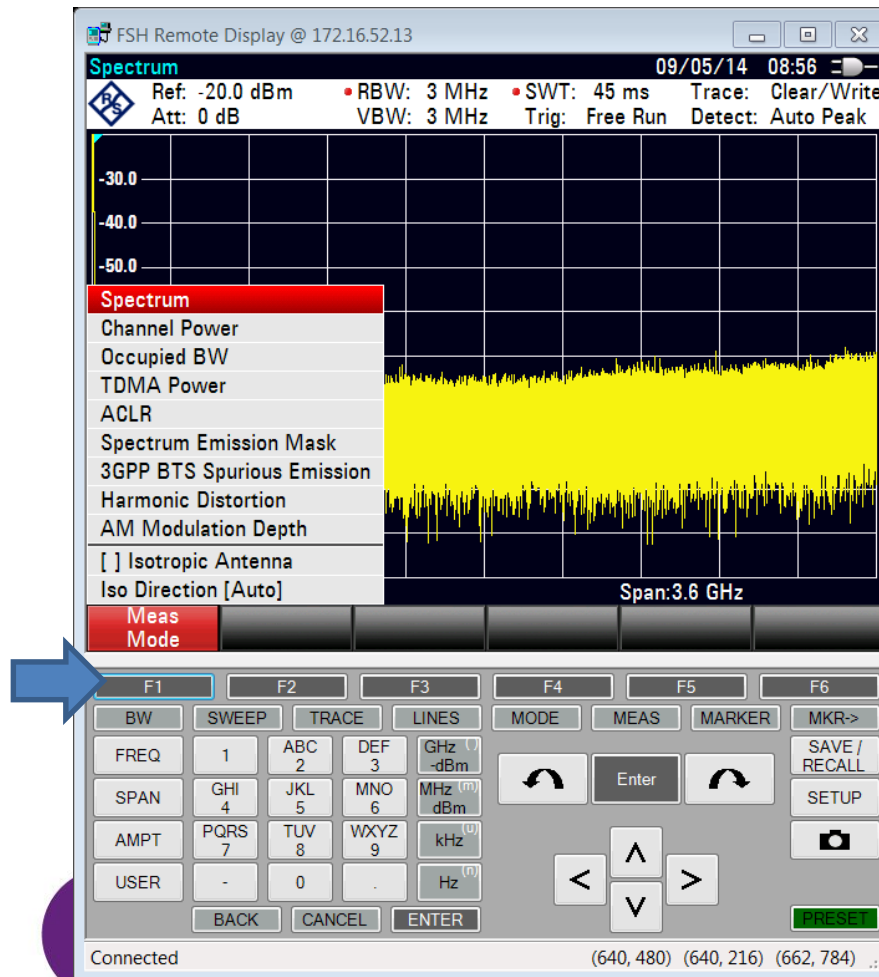
Network analyser



Spektrum analyser



Meas mode Spektrum analyser

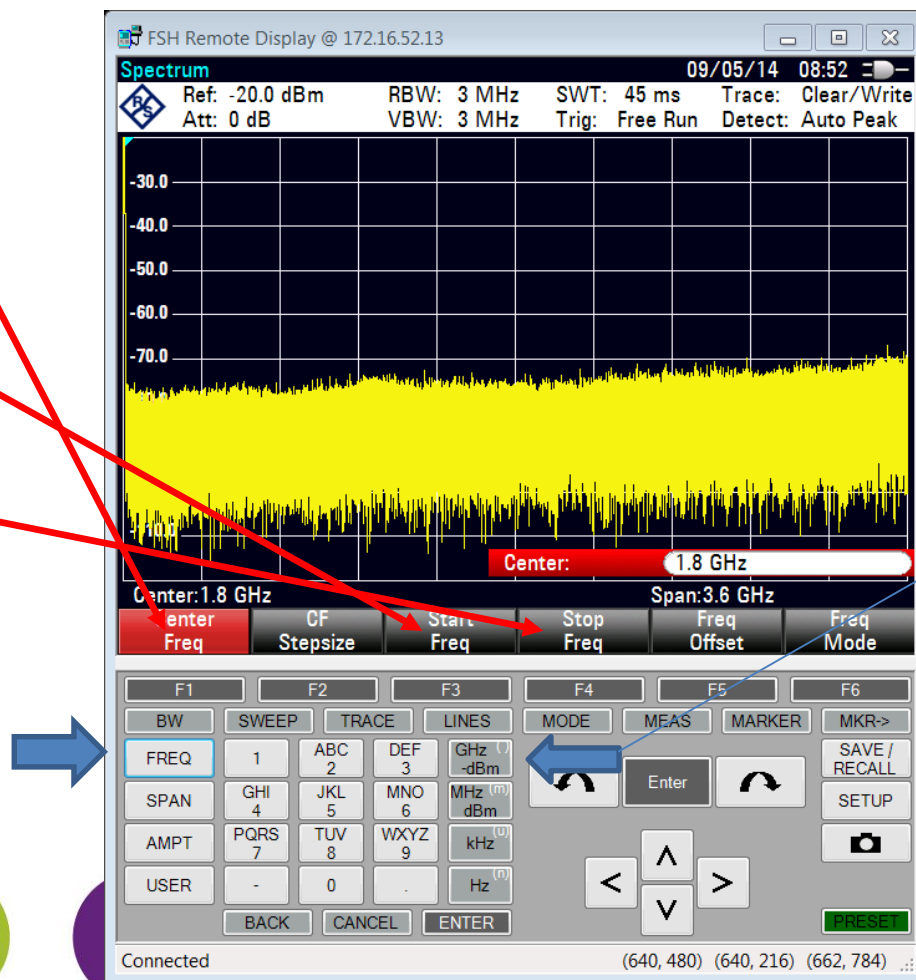


Freq

Centerfrekvens

Start frekvens

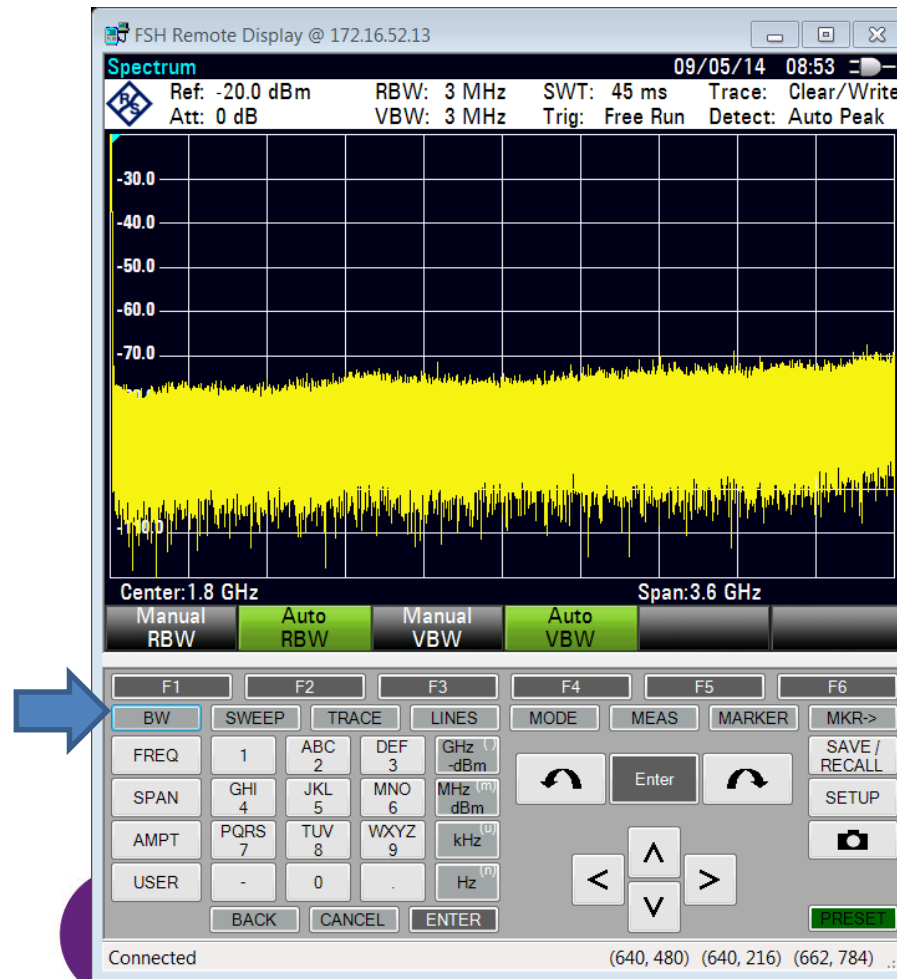
Stop frekvens



Indtast tal og derefter på
For eks. GHz

BW (Båndbredde)

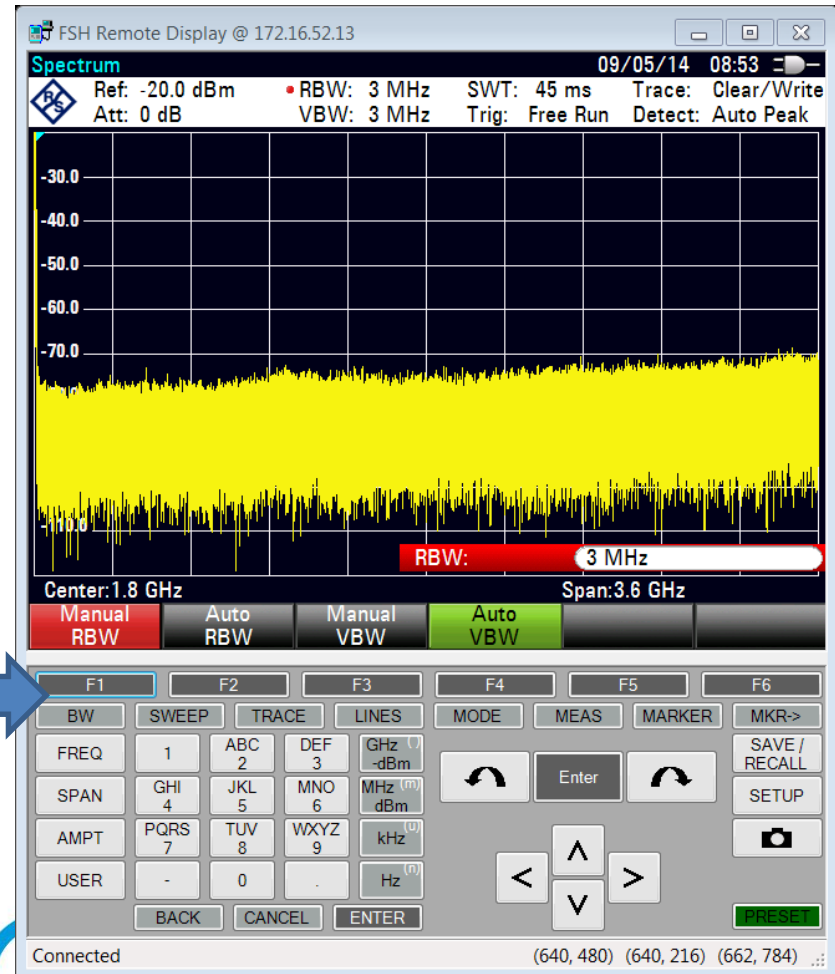
Båndbredde af filter



Manual RBW

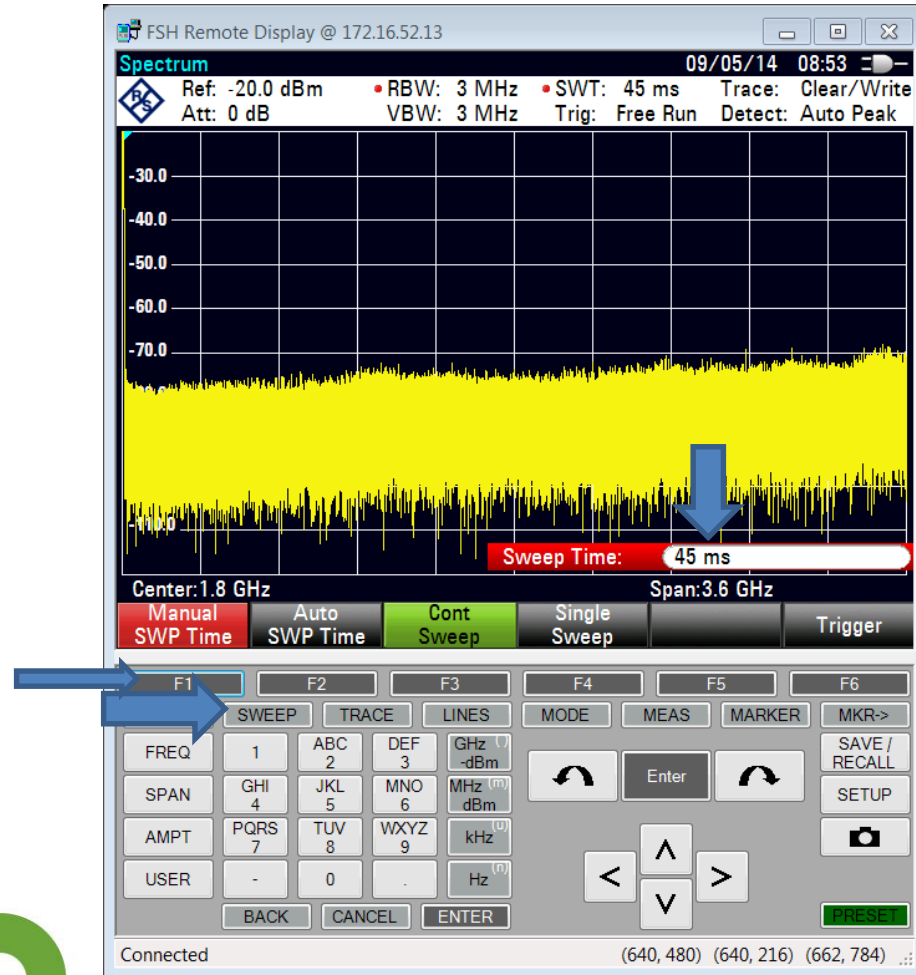
Filter båndbredde

Det tager længere tid
At opdatere skærmen, men målinger bliver
Mere nøjagtig!



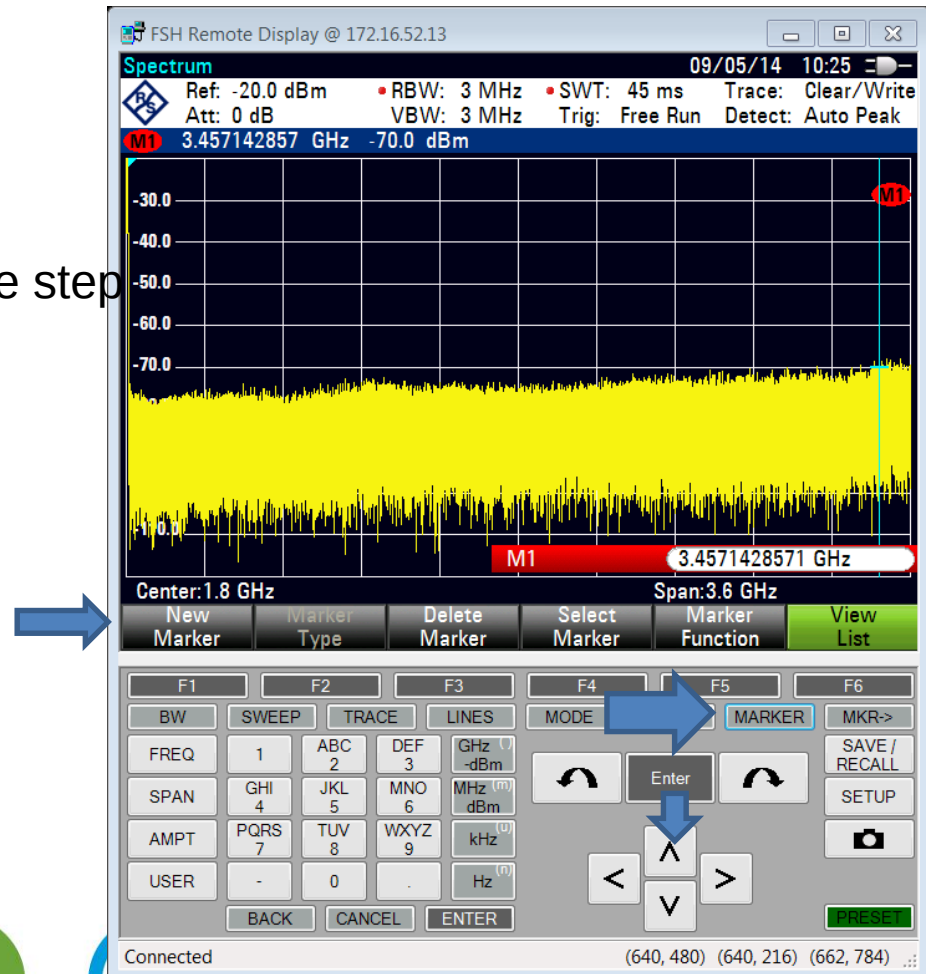
Sweep time

Tiden det tager at scanne over
Det indstillede frekvensomådet.



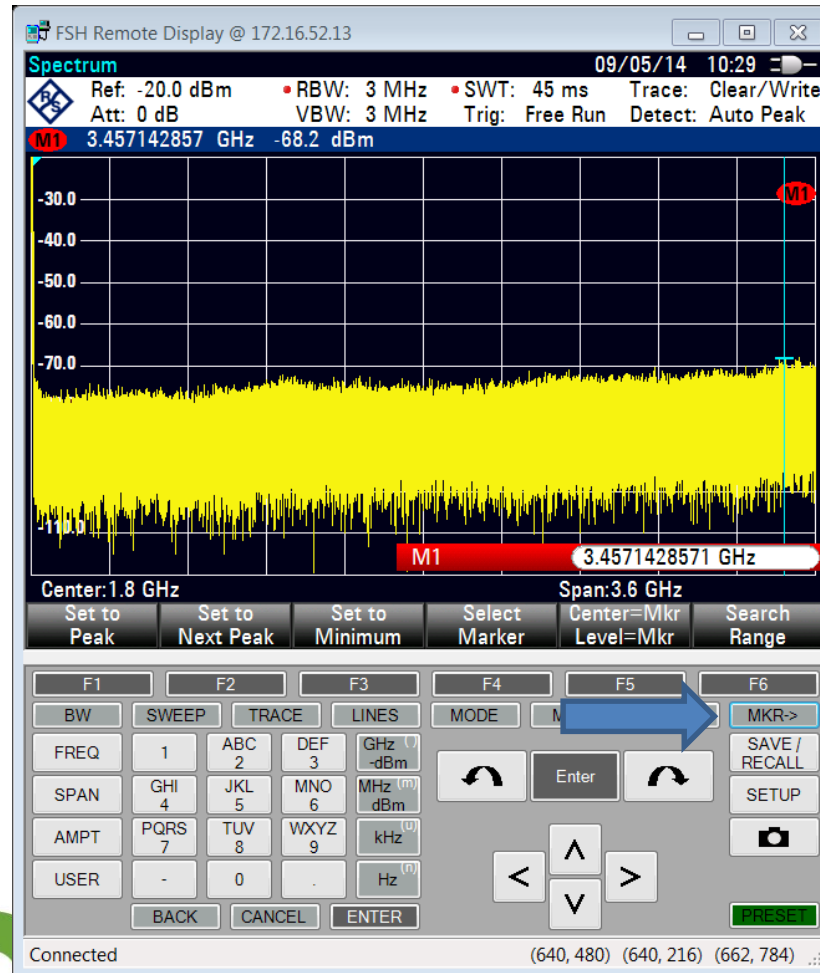
Markeres

M1 er marker til måle med.
New Marker opretter en ny marker.
Pile op og ned springer marker i store step



MKR

Peak søgning m.m.



Opgave

- Mål med R&S 6050-2 på Switchmode supply og sparepære både med Agilent scope(FFT) og spektrumanalyser

