

## Measurement of S meters of different transceivers

Author: DK1RI

During my last holiday in EA8 we were three Oms in locations a few hundred meters distance from each other, with similar equipment and had contact to stations in DL.

QSB was sometimes from S1 to S9+10dB, but also with this in mind, the reports for the DL stations varied significantly.

So I measured the S meter display for different Transceivers.

Generator is a (very old) 100MHz Sender W20272 from Siemens, delivering a signal of -50dBm at 3,6MHz, 14,2.MHz and 50,1MHz.

I added a 30dB and additionally a 10dB attenuator and wrote down the S meter readings.

Antenna Tuner switched off (or not used for FT987)

f	3,5	14,2	50,1	3,6	14,2	50,1	3,6	14,2	50,1
dB in	-50	-50	50	-80	-80	-80	-90	-90	-90
IC7400	S9+20	S9+20	S9+30	S7	S7	S9	S3,5	S3	S8
IC7000	S5	S9	S9+20	S6	S6	S9	S7,5	S7,5	S8
FT987	S8,5	S9+10	S9+20	S0	S4	S8	S0	S0	S7,5
F3000	S9+20	S9+20	S9+20	S8	S8	S8	S6	S6,5	S6
F3000 (dB)	-50	-50	-51	-80	-80	-80	91	-90	-91

The Flex seems to be very accurate, also the IC7400, the IC7000 shown less for high levels