

5G Waveform Candidates

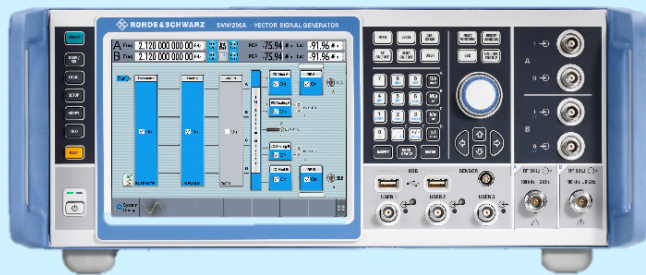
Generation & analysis demonstration

Millimetre wave range measurements with bandwidths up to 2 GHz.
Signal quality analysis of newly defined 5G waveforms.

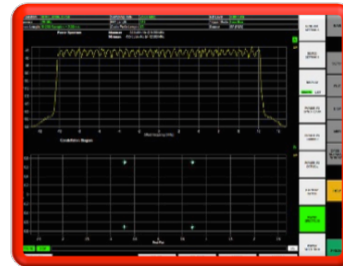
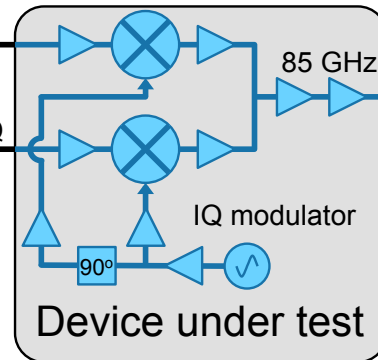
Alexander Naehring
Mark Bailey, CEng

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Rohde & Schwarz SMW200A signal generator

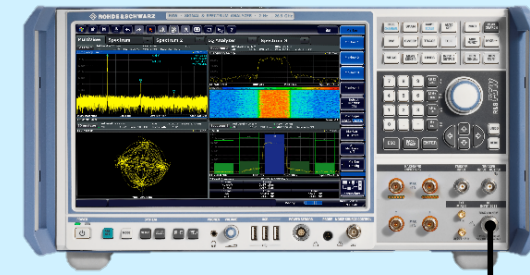


- Up to 40 GHz (dual source up to 20 GHz).
- 2 GHz bandwidth (external IQ).
- FW supported 5G waveforms:
 - Generalized frequency division multiplex (**GFDM**)
 - Filter bank multicarrier (**FBMC**)
 - Universal filtered multicarrier (**UFMC**)
 - Filtered OFDM (**f-OFDM**)



PC loaded with K196

Rohde & Schwarz FSW spectrum & signal analyser



- Up to 85 GHz.
- 2 GHz bandwidth (with external RTO oscilloscope).

LAN

PC based option K196, wide band OFDM vector signal analyser tool. Analysis of:

- GFDM & UFMC waveforms.