Specifications

The specifications below are based on the data sheet specifications of the Spectrum Analyzer R&S FSP and have not been checked separately.

Specifications apply under the following conditions:

15 minutes warmup time at ambient temperature, specified environmental conditions met, calibration cycle adhered to and internal calibration performed. Data with tolerances denotes measurement uncertainties with a confidence level of 95%.

Unless otherwise stated, specifications are quoted for an RF input level ± 30 dBm to ± 50 dBm within the *Bluetooth* band (ISM) 2400 MHz to 2483.5 MHz and default settings.

Output power				
Measurements	average and peak power to <i>Bluetooth</i> RF Test Specification			
Level range	+30 dBm to -50 dBm			
Level uncertainty	<0.7 dB (s = 0.25 dB)			
Packet type	longest supported (DH1, DH3, DH5)			
Payload	PRBS9			
Synchronization	RF burst or preamble			
Trigger	IF power, external, free run			
Modulation characteristics				
Measurements	FM deviation according to <i>Bluetooth</i> RF Test Specification Δ f1max, Δ f2max, Δ f1avg, Δ f2avg and Δ f2avg/ Δ f1avg			
Deviation range	±250 kHz			
Deviation uncertainty	<3 kHz (signal level >-25 dBm, 10 averages)			
Packet type	longest supported (DH1, DH3, DH5)			
Payload	10101010 and 11110000, auto detect			
Synchronization	preamble			
Trigger	IF power, external, free run			
Initial carrier frequency tolerance (ICFT)				
Measurements	ICFT to <i>Bluetooth</i> RF Test Specification			
Measurement range	±250 kHz			
Uncertainty	<2 kHz + carrier frequency x reference error (signal level >-30 dBm)			
Packet type	DH1			
Payload	PRBS9			
Synchronization	preamble			
Trigger	IF power, external, free run			
Carrier frequency drift				
Measurements	carrier frequency drift to <i>Bluetooth</i> RF Test Specification drift / packet and drift / 50 µs			
Measurement range	±250 kHz			
Uncertainty	<2 kHz (signal level > -30 dBm)			
Packet type	all supported (DH1, DH3, DH5)			
Payload	10101010			
Synchronization	preamble			
Trigger	IF power, external, free run			

Adjacent channel power (ACP)			
Measurements	adjacent channel power according to <i>Bluetooth</i> RF Test Specification		
Level range	max. +20 dBm		
Packet type	DH1		
Payload	PRBS9		
Synchronization	none		
Trigger	external, free run		

Ordering information

Order designation	- / F -	Order No.
Application Firmware for Bluetooth™ Measurements with R&S FSP and R&S FSU	R&S FS-K8	1157.2568.02
Spectrum Analyzer 9 kHz to 3 GHz	R&S FSP3	1093.4495.03
Spectrum Analyzer 9 kHz to 7 GHz	R&S FSP7	1093.4495.07
Spectrum Analyzer 9 kHz to 13.6 GHz	R&S FSP13	1093.4495.13
Spectrum Analyzer 9 kHz to 30 GHz	R&S FSP30	1093.4495.30
Spectrum Analyzer 9 kHz to 40 GHz	R&S FSP40	1093.4495.40
Spectrum Analyzer 20 Hz to 3.6 GHz	R&S FSU3	1129.9003.03
Spectrum Analyzer 20 Hz to 8 GHz	R&S FSU8	1129.9003.08
Spectrum Analyzer 20 Hz to 26.5 GHz	R&S FSU26	1129.9003.26



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