OPERATIONAL DESCRIPTION

The EUT is designed as "repeater device". It is designed by way of utilizing the DSSS technology to achieve the system operation.

The General Information of the Device

Operation Frequency	2405.00-2480.00MHz, (Channel Number: 16, Channel Frequency=2405+5(K-1), K=1, 2, 3 ……16)
Main Chipset	STM32F103RET6
OSC	32.768KHz, 8MHz
RF Output Power	14.04dBm(Max)
Channel Spacing	5MHz
Modulation	OQPSK
Number of channels	16
Hardware Version	V1.0
Software Version	N/A
Antenna Designation	Integrated Antenna
Antenna Gain	1.0dBi (Max.)
Power Supply	DC3.6V by (1/2 AA lithium Battery)

The equipment under test (EUT) is a transmitter of 2.405-2.480GHz repeater device.

The STM32F103RET6 TXpath produces an OQPSK-modulated signal using the analog front end and digital baseband. The area and power efficient Tx architecture uses a two-point modulation scheme to modulate the RF signal generated by the synthesizer. The modulated RF signal is fed to the integrated PA and then out of the STM32F103RET6.