

Tune Up Procedure

Tune up procedure shall be over the power range or at specific operating power levels.

1. It must provide an operational voltage (3.55~4.2V DC) to turn on the tablet PC and on one certain channel in service mode by means of company proprietary software.
2. Spectrum(R&S FSV40) measures the BT, WiFi specific RF characteristics.
3. The maximum gain of each individual tablet PC is adjusted until the target value met.

Conducted Output Power Limits		
Mode	Nominal Peak Power	Tolerance(dB)
BT 4.0	-3 dBm	+/- 3
WiFi: 802.11 b	9 dBm	+/- 0.7
WiFi: 802.11 g	8 dBm	+/- 1
WiFi: 802.11 n(HT20)	8 dBm	+/- 1

Mode	Frequency (MHz)	Measured conducted peak output power (dBm)
BT4.0	2402	-3.63
	2440	-4.37
	2480	-3.64
WiFi: 802.11 b	2412	9.28
	2437	9.45
	2462	9.68
WiFi: 802.11 g	2412	8.16
	2437	8.54
	2462	8.29
WiFi: 802.11 n(HT20)	2412	7.30
	2437	7.55
	2462	7.49

The user has no possibility to change these settings later on, and during manufacturing each tablet PC will be individual calibrated. The measurement is done in fully calibrated setup, which is based on a R&S FSV40. Furthermore, the highest power level is verified afterwards in measurement on three channels (low, middle and high).