Tune-up procedure

Each device is individually calibrated during manufacturing. Measurement is performed in a full calibrated setup using Wideband Radio Communication Tester or spectrum analyzer and power meter.

Measurement procedure is outlined below:

1. Set the device to operational voltage and on a predefined band class and channel.
2. The WIFI specific RF characteristics were measured by spectrum analyzer and power meter.

The user has no possibility to change these settings.

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

1. It must provide an operational voltage to turn on the device and on one certain channel in service mode by means of company proprietary software.
2. The maximum gains of each individual device are adjusted until the target value met.

Conducted Power Table

2.4G WLAN

Band	Mode	Target Power (dBm)	Tolerance (dB)
2.4GHz WLAN	802.11b	7.50	(-1.5,+0.5)
	802.11g	8.50	(-1.5,+0.5)
	802.11n HT20	7.50	(-1.5,+0.5)

BT

Band	Mode	Target Power (dBm)	Tolerance (dB)
BT	LE	1.50	(-1.5,+0.5)

5G WLAN

Band	Mode	Target Power (dBm)	Tolerance (dB)
5.2GHz WLAN	802.11a	8.50	(-1.5,+0.5)
	802.11n HT20	8.50	(-1.5,+0.5)
	802.11n HT40	9.00	(-1.5,+0.5)
	802.11ac VHT20	8.00	(-1.5,+0.5)
	802.11ac VHT40	9.00	(-1.5,+0.5)
	802.11ac VHT80	7.50	(-1.5,+0.5)
5.3GHz WLAN	802.11a	8.50	(-1.5,+0.5)
	802.11n HT20	8.50	(-1.5,+0.5)
	802.11n HT40	8.50	(-1.5,+0.5)
	802.11ac VHT20	8.00	(-1.5,+0.5)
	802.11ac VHT40	8.50	(-1.5,+0.5)
	802.11ac VHT80	7.00	(-1.5,+0.5)
5.6GHz WLAN	802.11a	6.50	(-1.5,+0.5)
	802.11n HT20	6.50	(-1.5,+0.5)
	802.11n HT40	6.50	(-1.5,+0.5)
	802.11ac VHT20	5.50	(-1.5,+0.5)
	802.11ac VHT40	6.00	(-1.5,+0.5)
	802.11ac VHT80	5.00	(-1.5,+0.5)
5.8G WLAN	802.11a	6.50	(-1.5,+0.5)
	802.11n HT20	6.50	(-1.5,+0.5)
	802.11n HT40	7.00	(-1.5,+0.5)
	802.11ac VHT20	6.00	(-1.5,+0.5)

	802.11ac VHT40	7.00	(-1.5,+0.5)
	802.11ac VHT80	5.50	(-1.5,+0.5)