

Appendix I. – Power Reduction Verification

Per the May 2017 TCBC Workshop notes, demonstration of proper functioning of the power reduction mechanism is required to support the corresponding SAR Configurations.

1. Power reduction Verification for WLAN Ant

This device uses a power reduction mechanism for SAR compliance for WLAN operations during voice or VoIP held to ear scenarios.

When a user makes or receives a WLAN voice or WLAN VOIP call for WLAN Ant the audio of the call is sent through the Receiver at the top of the device will trigger the Power reduction for WLAN Ant (i.e. reducing output power for Head SAR compliance)

Detailed descriptions of the power reduction mechanism are included in the Technical description document

Condition for Power reduction	Wireless Technologies	Conducted Power[dBm]	
		Un-Triggered (Max Power)	Triggered (Reduced Power)
RCV-on	2.4GHz 802.11b(Ant.1)	17.41	15.40
RCV-on	2.4GHz 802.11b(Ant.1+2)	20.32	18.15
RCV-on	5GHz 802.11a(Ant.2)	15.10	11.73
RCV-on	5GHz 802.11n 20MHz(Ant.2)	15.05	11.68
RCV-on	5GHz 802.11n 40MHz(Ant.2)	13.92	11.46
RCV-on	5GHz 802.11ac 20MHz(Ant.2)	15.01	11.59
RCV-on	5GHz 802.11ac 40MHz(Ant.2)	13.91	11.74
RCV-on	5GHz 802.11ac 80MHz(Ant.2)	12.95	11.92
RCV-on	5GHz 802.11ax 20MHz(Ant.2)	15.03	11.88
RCV-on	5GHz 802.11ax 40MHz(Ant.2)	13.94	11.60
RCV-on	5GHz 802.11ax 80MHz(Ant.2)	12.92	11.55
RCV-on	5GHz 802.11a(Ant.1+2)	17.99	14.97
RCV-on	5GHz 802.11n 20MHz(Ant.1+2)	18.01	14.58
RCV-on	5GHz 802.11n 40MHz(Ant.1+2)	16.82	14.32
RCV-on	5GHz 802.11ac 20MHz(Ant.1+2)	17.94	14.57
RCV-on	5GHz 802.11ac 40MHz(Ant.1+2)	16.90	14.49
RCV-on	5GHz 802.11ac 80MHz(Ant.1+2)	15.86	14.39
RCV-on	5GHz 802.11ax 20MHz(Ant.1+2)	17.94	14.79
RCV-on	5GHz 802.11ax 40MHz(Ant.1+2)	16.89	14.47
RCV-on	5GHz 802.11ax 80MHz(Ant.1+2)	15.68	14.59