

Appendix G : DSI state & Sensor Back off verification

The following procedure shall be employed to verify the differences in device output power during different DSI state and Sensor mode.

Step 1. Configure the device to be in a call such that voice is routed to the earpiece.

Step 2. Record the output power and ensure that it is within the specific tune-up tolerance for this operating mode.

Step 3. Repeat steps 1 – 2 for any additional configurations involving voice routing to other speakers such as the speakerphone or headsets.

Test results

Case (Change DSI=2 to DSI=0 to DSI=3)

| Tech | Antenna | DSI=2 (RCV mode on) | | DSI=0 (Free-Speaker mode on) | | DSI=3 (HOTSPOT mode on) | |
|-----------------|---------|---------------------|-----------------------------|---------------------------------|-----------------------------|-------------------------|-----------------------------|
| | | Tune-up limit (dBm) | Measured output power (dBm) | Tune-up limit (dBm) | Measured output power (dBm) | Tune-up limit (dBm) | Measured output power (dBm) |
| WCDMA Band V | Main.1 | 25.8 | 24.77 | 23.5 | 23.02 | 23.5 | 22.92 |

Case (Change RCV mode on to RCV mode off)

| Tech | Antenna | RCV mode on | | RCV mode off | |
|--------------------------------|---------|---------------------|-----------------------------|---------------------|-----------------------------|
| | | Tune-up limit (dBm) | Measured output power (dBm) | Tune-up limit (dBm) | Measured output power (dBm) |
| DTS Ant.1 (802.11b) | Sub.4 | 13.0 | 12.34 | 15.0 | 14.33 |
| UNII Ant.1 (802.11ac 80MHz) | Sub.3 | 10.0 | 8.96 | 13.0 | 12.07 |

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