

## APPENDIX F: POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process includes evaluation of output power levels for individual or multiple triggering mechanisms.

### F.1 Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

### F.2 Main Antenna Verification Summary

**Table F-1**  
**Power Measurement Verification for Main Antenna**

Mechanism(s)		Mode/Band	Deice State Index (DSI)		
1st	2nd		Free Space	Mechanism #1	Mechanism #2
Hotspot On	Held-to-Ear	Low Band Ant 1	0	3	2
Hotspot On	Held-to-Ear	Mid Band Ant 2	0	3	2
Hotspot On	Held-to-Ear	Mid Band Ant 4	0	3	2
Hotspot On	Held-to-Ear	High Band Ant 2	0	3	2
Hotspot On	Held-to-Ear	High Band Ant 4	0	3	2
Hotspot On	Held-to-Ear	Ultra High Band Ant 6	0	3	2

\*Note: Low band refers to: GSM850, UMTS B5, LTE B5/12/13/14/26/71, NR n5/14/71; Mid band refers to: GSM1900, UMTS B2/4, LTE B2/4/25/66/70, NR n2/25/66/70; High band refers to: LTE B7/30/38/41, NR n30/41, Ultra High band refers to LTE B48, NR n48/77/78

FCC ID A3LSMG766U	RF Exposure Part 1 Test Report	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX F: Page 1 of 2

### F.3 Bluetooth Verification Summary

**Table F-2**  
**Power Measurement Verification for Bluetooth Antennas**

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
1st		Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	Bluetooth Ant 5	15.48	13.05
Held-to-Ear	Bluetooth Ant 7	14.39	12.17