

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 was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

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.

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F.2 WIFI Verification Summary

Table F-1
Power Measurement Verification WIFI

Mode/Band	Conducted powers			Mechanism
	Triggered	Un-triggered	Triggered	
2.4 GHz 802.11b	15.87	10.59	15.86	Grip
2.4 GHz 802.11g	15.93	10.62	15.8	Grip
2.4 GHz 802.11n	15.76	10.67	15.95	Grip
2.4 GHz 802.11ac	15.61	10.46	15.5	Grip
2.4 GHz 802.11ax	15.24	10.45	15.16	Grip
5 GHz 802.11a (20MHz)	12.2	8.04	12.24	Grip
5 GHz 802.11n (20MHz)	11.87	7.73	12	Grip
5 GHz 802.11ac (20MHz)	11.85	7.85	11.91	Grip
5 GHz 802.11ax (20MHz)	11.8	8.25	11.74	Grip
5 GHz 802.11n (40MHz)	11.97	7.84	11.84	Grip
5 GHz 802.11ac (40MHz)	12.01	8.1	12.02	Grip
5 GHz 802.11ax (40MHz)	12.1	8.51	12.02	Grip
5 GHz 802.11ac (80MHz)	12.06	7.5	11.93	Grip
5 GHz 802.11ax (80MHz)	12.09	8.01	11.99	Grip
5 GHz 802.11ac (160MHz)	11.93	8.07	12.06	Grip
5 GHz 802.11ax (160MHz)	12.12	8.12	12.1	Grip
6 GHz 802.11a (20MHz)	8.45	6.2	8.25	Grip
6 GHz 802.11ax (20MHz)	8.12	6.01	8.08	Grip
6 GHz 802.11ax (40MHz)	10.72	5.63	10.68	Grip
6 GHz 802.11ax (80MHz)	11.01	6.05	10.97	Grip
6 GHz 802.11ax (160MHz)	11.04	5.99	10.89	Grip

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