

APPENDIX I: IEEE 802.11 RU SAR EXCLUSION

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax/be can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T, 996T and 996Tx2, 996Tx4.

Per FCC Guidance, 802.11ax/be was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax/be based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes.

I.1.1 2.4 GHz WLAN 802.11ax/be RU WLAN Output Power

The table below is applicable in the following conditions:

- Pmax, DSI=0 (Body-worn, Hotspot, or Phablet)

Mode	Band		IEEE 802.11ax/be RU (in dBm)											
			SISO Antenna H (in dBm)				SISO Antenna J (in dBm)				Antenna H & Antenna J in MIMO			
			26T	52T	106T	242T	26T	52T	106T	242T	26T	52T	106T	242T
2.4 GHz WiFi	2.45 GHz	Maximum	14	15	16	16	14	15	16	16	17	18	19	19
		Nominal	13	14	15	15	13	14	15	15	16	17	18	18

The table below is applicable in the following conditions:

- DSI=1 (Head)

Mode	Band		IEEE 802.11ax/be RU (in dBm)											
			SISO Antenna H (in dBm)				SISO Antenna J (in dBm)				Antenna H & Antenna J in MIMO			
			26T	52T	106T	242T	26T	52T	106T	242T	26T	52T	106T	242T
2.4 GHz WiFi	2.45 GHz	Maximum	14	14	14	14	14	14	14	17	17	17	17	
		Nominal	13	13	13	13	13	13	13	16	16	16	16	

I.1.2 5 GHz WLAN 802.11ax/be RU WLAN Output Power

The table below is applicable in the following conditions:

- Pmax, DSI=0 (Body-worn, Hotspot, or Phablet)

Mode	Band		IEEE 802.11ax (RU) (in dBm)																							
			SISO								SISO								Antenna 1, Antenna 2 in MIMO							
			Antenna 1								Antenna 2								Antenna 1 & Antenna 2 in MIMO							
	26T	52T	106T	242T	484T	996T	996T2	26T	52T	106T	242T	484T	996T	996T2	26T	52T	106T	242T	484T	996T	996T2					
5 GHz WiFi (20MHz BW)	UNII-1	Maximum	11.0	13.0	16.0	16.0			11.0	13.0	16.0	16.0				11.0	13.0	16.0	16.0							
			11.0	13.0	16.0	16.0				11.0	13.0	16.0	16.0				11.0	13.0	16.0	16.0						
			14.0	15.0	16.0	16.0				14.0	15.0	16.0	16.0				14.0	15.0	16.0	16.0						
			14.0	15.0	16.0	16.0				14.0	15.0	16.0	16.0				14.0	15.0	16.0	16.0						
			14.0	15.0	16.0	16.0				14.0	15.0	16.0	16.0				14.0	15.0	16.0	16.0						
	UNII-2A	Nominal	10.0	12.0	15.0	15.0				10.0	12.0	15.0	15.0				10.0	12.0	15.0	15.0						
			10.0	12.0	15.0	15.0				10.0	12.0	15.0	15.0				10.0	12.0	15.0	15.0						
			13.0	14.0	15.0	15.0				13.0	14.0	15.0	15.0				13.0	14.0	15.0	15.0						
			13.0	14.0	15.0	15.0				13.0	14.0	15.0	15.0				13.0	14.0	15.0	15.0						
			13.0	14.0	15.0	15.0				13.0	14.0	15.0	15.0				13.0	14.0	15.0	15.0						
5 GHz WiFi (40MHz BW)	UNII-1	Maximum	11.0	13.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0				
			11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
	UNII-2A	Nominal	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0				
			10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
5 GHz WiFi (80MHz BW)	UNII-1	Maximum	11.0	13.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0				
			11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
	UNII-2A	Nominal	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0				
			10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
5 GHz WiFi (160MHz BW)	UNII-1	Maximum	11.0	13.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0				
			11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0	16.0	11.0	13.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
			14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0	16.0	14.0	15.0	16.0	16.0	16.0	16.0				
	UNII-2A	Nominal	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0				
			10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	10.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				
			13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	13.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0				

FCC ID: A3LSMS936B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 1 of 3

- DSI=1 (Head)

I.1.3 6 GHz WLAN 802.11ax/be RU WLAN Output Power

- P_{max}

- DSI=0 (Body-worn, Hotspot, or Phablet)

Male	Event	RANK 600 (Last 600 per Athlete)																RANK 600 (Last 600 per Athlete)																RANK 600 (Last 600 per Athlete)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		RANK 600 (Last 600 per Athlete)								RANK 600 (Last 600 per Athlete)								RANK 600 (Last 600 per Athlete)								RANK 600 (Last 600 per Athlete)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017

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DUT Type: Portable Handset		APPENDIX I: Page 2 of 3

- DSI=1 (Head)

FCC ID: A3LSMS936B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 3 of 3