

APPENDIX H: RU SAR EXCLUSION

H.1 IEEE 802.11ax/be 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, 52T+26T, 106T, 106T+26T, 242T, 484T, 484T+242T, 996T, 996T+242T, 996T+484T, 996Tx2 and for WIFI 6E additionally 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.

H.2 RU Target Powers

H.2.1 2.4 GHz WLAN 802.11ax/be RU WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=1

Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
	SISO/SISO in MIMO								SISO/SISO in MIMO							
	Ant R								Ant L							
	26T		52T, 52T+26T		106T, 106T+26T		242T		26T		52T, 52T+26T		106T, 106T+26T		242T	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.45 GHz 20MHz BW	19.00	18.00	19.00	18.00	19.00	18.00	18.50	17.50	19.00	18.00	19.00	18.00	19.00	18.00	18.50	17.50
			ch. 1: 18.50	17.50	ch. 1: 16.00	15.00	ch. 1: 14.00	13.00			ch. 1: 18.50	17.50	ch. 1: 16.00	15.00	ch. 1: 14.00	13.00
					ch. 2: 18.00	17.00	ch. 2: 15.50	14.50					ch. 2: 18.00	17.00	ch. 2: 15.50	14.50
							ch. 3: 17.00	16.00							ch. 3: 17.00	16.00
					ch. 9: 18.00	17.00	ch. 9: 18.00	17.00					ch. 9: 18.00	17.00	ch. 9: 18.00	17.00
					ch. 10: 18.00	17.00	ch. 10: 15.00	14.00					ch. 10: 18.00	17.00	ch. 10: 15.00	14.00
	ch. 11: 18.50	17.50			ch. 11: 17.50	16.50	ch. 11: 13.00	12.00	ch. 11: 18.50	17.50			ch. 11: 17.50	16.50	ch. 11: 13.00	12.00
	ch. 12: 16.00	15.00	ch. 12: 16.00	15.00	ch. 12: 13.50	12.50	ch. 12: 12.50	11.50	ch. 12: 16.00	15.00	ch. 12: 16.00	15.00	ch. 12: 13.50	12.50	ch. 12: 12.50	11.50
	ch. 13: -14.00	-15.00	ch. 13: -14.00	-15.00	ch. 13: -12.50	-13.50	ch. 13: -6.00	-7.00	ch. 13: -14.00	-15.00	ch. 13: -14.00	-15.00	ch. 13: -12.50	-13.50	ch. 13: -6.00	-7.00
Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
	SISO/SISO in MIMO								SISO/SISO in MIMO							
	Ant R				Ant L				Ant R				Ant L			
	484T, 484T+242T				484T, 484T+242T				484T, 484T+242T				484T, 484T+242T			
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.45 GHz 40MHz BW	16.00	15.00	16.00	15.00					16.00	15.00	16.00	15.00				
	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00					ch. 3: 14.00	13.00	ch. 3: 14.00	13.00				
	ch. 9: 13.50	12.50	ch. 9: 13.50	12.50					ch. 9: 13.50	12.50	ch. 9: 13.50	12.50				
	ch. 10: 11.00	10.00	ch. 10: 11.00	10.00					ch. 10: 11.00	10.00	ch. 10: 11.00	10.00				
	ch. 11: -6.00	-7.00	ch. 11: -6.00	-7.00					ch. 11: -6.00	-7.00	ch. 11: -6.00	-7.00				

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H.2.2 5GHz WLAN 802.11ax/be RU WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=1

Mode		Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)																
			SISO/SISO in MIMO								SISO/SISO in MIMO								
			Ant R				Ant L				Ant R				Ant L				
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
5 GHz WIFI (20MHz BW)	UNII-1	8.50	7.50	9.50	8.50	12.50	11.50	16.50	15.50	8.50	7.50	9.50	8.50	12.50	11.50	16.50	15.50		
		ch. 36: 7.00 ch. 40: 7.00 ch. 48: 7.00	6.00 6.00 6.00					ch. 36: 15.50 ch. 40: 14.50 ch. 48: 7.00	6.00 6.00 6.00							ch. 36: 15.50 ch. 40: 14.50 ch. 48: 7.00	6.00 6.00 6.00		
	UNII-2A	9.00	8.00	12.00	11.00	15.00	14.00	16.50	15.50	9.00	8.00	12.00	11.00	15.00	14.00	16.50	15.50		
	UNII-2C	8.50	7.50	11.50	10.50	14.50	13.50	16.50	15.50	8.50	7.50	11.50	10.50	14.50	13.50	16.50	15.50		
		ch. 104: 8.00 ch. 108: 8.00 ch. 112: 8.00 ch. 116: 8.00 ch. 120: 8.00 ch. 124: 8.00 ch. 128: 8.00 ch. 132: 8.00 ch. 136: 8.00 ch. 140: 8.00	7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00	ch. 104: 10.00 ch. 108: 10.00 ch. 112: 10.00 ch. 116: 10.00 ch. 120: 10.00 ch. 124: 10.00 ch. 128: 10.00 ch. 132: 10.00 ch. 136: 10.00 ch. 140: 10.50	9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.50	ch. 104: 12.50 ch. 108: 12.50 ch. 112: 12.50 ch. 116: 12.50 ch. 120: 12.50 ch. 124: 12.50 ch. 128: 12.50 ch. 132: 12.50 ch. 136: 12.50 ch. 140: 13.00	11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 12.00	ch. 104: 16.00 ch. 108: 16.00 ch. 112: 16.00 ch. 116: 16.00 ch. 120: 16.00 ch. 124: 16.00 ch. 128: 16.00 ch. 132: 16.00 ch. 136: 16.00 ch. 140: 16.00	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00	ch. 104: 8.00 ch. 108: 8.00 ch. 112: 8.00 ch. 116: 8.00 ch. 120: 8.00 ch. 124: 8.00 ch. 128: 8.00 ch. 132: 8.00 ch. 136: 8.00 ch. 140: 8.00	7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00	ch. 104: 10.00 ch. 108: 10.00 ch. 112: 10.00 ch. 116: 10.00 ch. 120: 10.00 ch. 124: 10.00 ch. 128: 10.00 ch. 132: 10.00 ch. 136: 10.00 ch. 140: 10.50	9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.50	ch. 104: 12.50 ch. 108: 12.50 ch. 112: 12.50 ch. 116: 12.50 ch. 120: 12.50 ch. 124: 12.50 ch. 128: 12.50 ch. 132: 12.50 ch. 136: 12.50 ch. 140: 13.00	11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 12.00	ch. 104: 16.00 ch. 108: 16.00 ch. 112: 16.00 ch. 116: 16.00 ch. 120: 16.00 ch. 124: 16.00 ch. 128: 16.00 ch. 132: 16.00 ch. 136: 16.00 ch. 140: 16.00	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00		
		UNII-3	19.00	18.00	19.00	18.00	19.00	18.00	21.00	20.00	19.00	18.00	19.00	18.00	19.00	18.00	21.00	20.00	
			ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	ch. 149: 16.00	15.00	
		UNII-4	6.00	5.00	9.00	8.00	11.50	10.50	15.50	14.50	6.00	5.00	9.00	8.00	11.50	10.50	15.50	14.50	
			ch. 173: 8.50	7.50	ch. 173: 8.50	7.50	ch. 173: 14.00	13.00	ch. 177: 14.00	13.00	ch. 173: 14.00	13.00	ch. 177: 14.00	13.00	ch. 173: 14.00	13.00	ch. 177: 14.00	13.00	
		Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
				SISO/SISO in MIMO								SISO/SISO in MIMO							
				Ant R				Ant L				Ant R				Ant L			
				484T, 484T+242T				484T, 484T+242T				484T, 484T+242T				484T, 484T+242T			
	Maximum / Nominal Power		Max	Nom.	Max	Nom.													
5 GHz WIFI (40MHz BW)	UNII-1	16.50	15.50	16.50	15.50														
		ch. 38: 14.00	13.00	ch. 38: 14.00	13.00														
	UNII-2A	15.50	14.50	15.50	14.50														
		ch. 62: 13.50	12.50	ch. 62: 13.50	12.50														
	UNII-2C	17.00	16.00	17.00	16.00														
		ch. 102: 14.00 ch. 142: 16.00	13.00 15.00	ch. 102: 14.00 ch. 142: 16.00	13.00 15.00														
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)																	
		SISO/SISO in MIMO								SISO/SISO in MIMO									
		Ant R				Ant L				Ant R				Ant L					
		996T, 996T+484T, 996T+484T+242T				996T, 996T+484T, 996T+484T+242T				996T, 996T+484T, 996T+484T+242T				996T, 996T+484T, 996T+484T+242T					
Maximum / Nominal Power		Max	Nom.	Max	Nom.														
5 GHz WIFI (80MHz BW)	UNII-1	11.00	10.00	11.00	10.00														
	UNII-2A	14.00	13.00	14.00	13.00														
	UNII-2C	17.00	16.00	17.00	16.00														
		ch. 106: 9.50	8.50	ch. 106: 9.50	8.50														
	UNII-3	12.00	11.00	12.00	11.00														
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)																	
		SISO/SISO in MIMO								SISO/SISO in MIMO									
		Ant R				Ant L				Ant R				Ant L					
		996T*2, 996T*2+484T, 996T*3, 996T*3+484T				996T*2, 996T*2+484T, 996T*3, 996T*3+484T				996T*2, 996T*2+484T, 996T*3, 996T*3+484T				996T*2, 996T*2+484T, 996T*3, 996T*3+484T					
Maximum / Nominal Power		Max	Nom.	Max	Nom.														
5 GHz WIFI (160MHz BW)	UNII-1/2A	12.00	11.00	12.00	11.00														
	UNII-2C	10.00	9.00	10.00	9.00														
	UNII-3/4	16.00	15.00	16.00	15.00														

H.2.3 6GHz WLAN 802.11ax/be RU WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=1 (LPI)

		IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
Mode	Band	SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R				Ant L				Ant R				Ant L			
		26T		52T, 52T+26T		106T, 106T+26T		242T		26T		52T, 52T+26T		106T, 106T+26T		242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - LPI	UNII-5	-10.00	-11.00	-6.50	-7.50	-4.00	-5.00	-2.00	-3.00	-10.00	-11.00	-6.50	-7.50	-4.00	-5.00	-2.00	-3.00
	UNII-6	-8.00	-9.00	-5.00	-6.00	-2.50	-3.50	0.00	-1.00	-8.00	-9.00	-5.00	-6.00	-2.50	-3.50	0.00	-1.00
	UNII-7	-9.50	-10.50	-6.50	-7.50	-4.00	-5.00	-2.00	-3.00	-9.50	-10.50	-6.50	-7.50	-4.00	-5.00	-2.00	-3.00
	UNII-8	-15.00	-16.00	-12.00	-13.00	-11.50	-12.50	-8.50	-9.50	-15.00	-16.00	-12.00	-13.00	-11.50	-12.50	-8.50	-9.50
		ch. 233: -15.50	-16.50							ch. 233: -15.50	-16.50						
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R				Ant L				Ant R				Ant L			
		484T, 484T+242T		484T, 484T+242T		484T, 484T+242T		484T, 484T+242T		484T, 484T+242T		484T, 484T+242T		484T, 484T+242T			
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (40MHz BW) - LPI	UNII-5	2.50	1.50	2.50	1.50												
	UNII-6	3.50	2.50	3.50	2.50												
	UNII-7	ch. 115: 2.50	1.50	ch. 115: 2.50	1.50												
	UNII-8	2.50	1.50	2.50	1.50												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R				Ant L				Ant R				Ant L			
		996T, 996T+484T, 996T+484T+242T		996T, 996T+484T, 996T+484T+242T		996T, 996T+484T, 996T+484T+242T		996T, 996T+484T, 996T+484T+242T		996T, 996T+484T, 996T+484T+242T		996T, 996T+484T, 996T+484T+242T		996T, 996T+484T, 996T+484T+242T			
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (80MHz BW) - LPI	UNII-5	6.00	5.00	6.00	5.00												
	UNII-6	ch. 87: 5.50	4.50	ch. 87: 5.50	4.50												
	UNII-7	6.50	5.50	6.50	5.50												
	UNII-8	5.50	4.50	5.50	4.50												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R				Ant L				Ant R				Ant L			
		996T*2, 996T*2+484T, 996T*3, 996T*3+484T		996T*2, 996T*2+484T, 996T*3, 996T*3+484T		996T*2, 996T*2+484T, 996T*3, 996T*3+484T		996T*2, 996T*2+484T, 996T*3, 996T*3+484T		996T*2, 996T*2+484T, 996T*3, 996T*3+484T		996T*2, 996T*2+484T, 996T*3, 996T*3+484T		996T*2, 996T*2+484T, 996T*3, 996T*3+484T			
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (160MHz BW) - LPI	UNII-5	8.00	7.00	8.00	7.00												
	UNII-6	8.00	7.00	8.00	7.00												
	UNII-7	8.00	7.00	8.00	7.00												
	UNII-8	ch. 175: 6.00	5.00	ch. 175: 6.00	5.00												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R				Ant L				Ant R				Ant L			
		996T*4		996T*4		996T*4		996T*4		996T*4		996T*4		996T*4			
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (320MHz BW) - LPI	UNII-5	11.00	10.00	11.00	10.00												
	UNII-6	11.00	10.00	11.00	10.00												
	UNII-7	11.00	10.00	11.00	10.00												
	UNII-8	ch. 159: 8.50	7.50	ch. 159: 8.50	7.50												

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The below table is applicable in the following conditions:

- Pmax (SP)

		IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
Mode	Band	SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		26T		52T, 52T+26T		106T, 106T+26T		242T		26T		52T, 52T+26T		106T, 106T+26T		242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - SP	UNII-5	8.00	7.00	11.00	10.00	14.00	13.00	16.00	15.00	8.00	7.00	11.00	10.00	14.00	13.00	16.00	15.00
	UNII-7	ch. 181: 6.50	5.50	ch. 181: 9.50	8.50	ch. 181: 12.00	11.00	ch. 181: 14.50	13.50	ch. 181: 6.50	5.50	ch. 181: 9.50	8.50	ch. 181: 12.00	11.00	ch. 181: 14.50	13.50
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		484T, 484T+242T				484T, 484T+242T											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (40MHz BW) - SP	UNII-5	18.00	17.00	18.00	17.00												
	UNII-7	18.00	17.00	18.00	17.00												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		996T, 996T+484T, 996T+484T+242T				996T, 996T+484T, 996T+484T+242T											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (80MHz BW) - SP	UNII-5	18.00	17.00	18.00	17.00												
		ch. 7: 16.00	15.00	ch. 7: 16.00	15.00												
	UNII-7	19.00	18.00	19.00	18.00												
		ch. 119: 17.50	16.50	ch. 119: 17.50	16.50	ch. 135: 17.50	16.50										
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		996T*2, 996T*2+484T, 996T*3, 996T*3+484T				996T*2, 996T*2+484T, 996T*3, 996T*3+484T											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (160MHz BW) - SP	UNII-5	18.50	17.50	18.50	17.50												
		ch. 15: 16.00	15.00	ch. 15: 16.00	15.00	ch. 47: 16.50	15.50										
	UNII-7	19.00	18.00	19.00	18.00												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		996T*4				996T*4											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WIFI (320MHz BW) - SP	UNII-5	18.00	17.00	18.00	17.00												

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The below table is applicable in the following conditions:

- DSI=1 (SP)

		IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
Mode	Band	SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		26T		52T, 52T+26T		106T, 106T+26T		242T		26T		52T, 52T+26T		106T, 106T+26T		242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	8.00	7.00	11.00	10.00	12.00	11.00	12.00	11.00	8.00	7.00	11.00	10.00	12.00	11.00	12.00	11.00
	UNII-7	8.00 ch. 181: 6.50	7.00 6.50	11.00 ch. 181: 9.50	10.00 9.50	12.75 ch. 181: 12.00	11.75 11.00	12.75	11.75	8.00 ch. 181: 6.50	7.00 6.50	11.00 ch. 181: 9.50	10.00 8.50	12.75 ch. 181: 12.00	11.75 11.00	12.75	11.75
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		484T, 484T+242T				484T, 484T+242T											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WiFi (40MHz BW) - SP	UNII-5	12.00	11.00	12.00	11.00												
	UNII-7	12.75	11.75	12.75	11.75												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		996T, 996T+484T, 996T+484T+242T				996T, 996T+484T, 996T+484T+242T											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WiFi (80MHz BW) - SP	UNII-5	12.00	11.00	12.00	11.00												
	UNII-7	12.75	11.75	12.75	11.75												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		996T*2, 996T*2+484T, 996T*3, 996T*3+484T				996T*2, 996T*2+484T, 996T*3, 996T*3+484T											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WiFi (160MHz BW) - SP	UNII-5	12.00	11.00	12.00	11.00												
	UNII-7	12.75	11.75	12.75	11.75												
Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)															
		SISO/SISO in MIMO								SISO/SISO in MIMO							
		Ant R								Ant L							
		996T*4				996T*4											
Maximum / Nominal Power		Max	Nom.	Max	Nom.												
6 GHz WiFi (320MHz BW) - SP	UNII-5	12.00	11.00	12.00	11.00												

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H.3 RU Conducted Powers

H.3.1 2.4 GHz WLAN Measured 802.11ax/be RU WLAN Power for Pmax – Ant R

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2412	1	26T	0	18.36
			4	18.24
			8	18.72
2437	6	26T	0	18.69
			4	18.10
			8	18.64
2457	10	26T	0	18.19
			4	18.00
			8	18.16
2462	11	26T	0	18.01
			4	17.56
			8	17.60

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2412	1	52T	37	17.73
			38	18.09
			40	18.03
2417	2	52T	37	18.18
			38	18.67
			40	18.45
2437	6	52T	37	18.63
			38	18.26
			40	18.59
2462	11	52T	37	18.54
			38	18.07
			40	18.09

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	15.04
			54	15.73
2417	2	106T	53	17.14
			54	17.77
2422	3	106T	53	18.35
			54	18.63
2437	6	106T	53	18.40
			54	18.33
2447	8	106T	53	18.19
			54	18.51
2452	9	106T	53	17.08
			54	17.27
2457	10	106T	53	17.07
			54	17.03
2462	11	106T	53	16.78
			54	16.40

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2412	1	242T	61	13.10
2417	2	242T	61	14.66
2422	3	242T	61	16.20
2427	4	242T	61	17.59
2437	6	242T	61	17.64
2447	8	242T	61	17.62
2452	9	242T	61	16.97
2457	10	242T	61	16.91
2462	11	242T	61	16.45

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2422	3	484T	65	13.28
2427	4	484T	65	15.19
2457	6	484T	65	15.15
2447	8	242T	65	15.27
2452	9	484T	65	12.51
2457	10	484T	65	10.08
2462	11	484T	65	-6.97

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H.3.2 2.4 GHz WLAN Measured 802.11ax/be RU WLAN Power for Pmax – Ant L

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2412	1	26T	0	18.36
			4	18.28
			8	18.55
2437	6	26T	0	18.38
			4	17.87
			8	18.52
2457	10	26T	0	18.34
			4	18.01
			8	18.05
2462	11	26T	0	18.32
			4	17.51
			8	17.57

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2412	1	52T	37	17.73
			38	18.10
			40	18.30
2417	2	52T	37	18.23
			38	18.56
			40	18.15
2437	6	52T	37	18.31
			38	18.08
			40	18.35
2462	11	52T	37	18.61
			38	17.99
			40	18.02

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	15.02
			54	15.62
2417	2	106T	53	17.14
			54	17.63
2422	3	106T	53	18.43
			54	18.53
2437	6	106T	53	18.19
			54	18.22
2447	8	106T	53	18.00
			54	18.33
2452	9	106T	53	17.10
			54	17.25
2457	10	106T	53	17.18
			54	17.00
2462	11	106T	53	16.83
			54	16.33

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2412	1	242T	61	13.10
2417	2	242T	61	14.57
2422	3	242T	61	16.18
2427	4	242T	61	17.45
2437	6	242T	61	17.58
2447	8	242T	61	17.57
2452	9	242T	61	17.04
2457	10	242T	61	16.94
2462	11	242T	61	16.46

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers [dBm]
2422	3	484T	65	13.20
2427	4	484T	65	15.03
2457	6	484T	65	15.11
2447	8	242T	65	15.10
2452	9	484T	65	12.56
2457	10	484T	65	9.95
2462	11	484T	65	-6.97

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H.3.3 5 GHz WLAN Measured 802.11ax/be RU WLAN Power for Pmax – Ant R

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
	1	5180	36	26T	5.01	5.60	5.03
		5200	40	26T	5.11	5.81	5.08
		5220	44	26T	7.13	7.69	7.09
		5240	48	26T	5.07	5.60	5.06
	2A	5260	52	26T	7.49	7.96	7.46
		5280	56	26T	7.35	7.82	7.30
		5320	64	26T	7.26	7.83	7.22
		5500	100	26T	6.98	7.32	6.75
	2C	5600	120	26T	6.21	6.82	6.44
		5720	144	26T	7.03	7.54	6.95
		5745	149	26T	14.58	15.13	14.61
		5765	153	26T	17.86	18.24	17.84
	3	5785	157	26T	17.92	18.17	17.75
		5825	165	26T	17.77	18.17	17.72
		5845	169	26T	4.10	4.45	4.05
		5865	173	26T	4.13	4.61	4.02
	4	5885	177	26T	4.81	4.42	4.81

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	39	40
	1	5180	36	52T	8.04	8.49	8.06
		5200	40	52T	8.14	8.55	8.10
		5240	48	52T	8.07	8.34	8.09
		5260	52	52T	11.00	11.33	10.98
	2A	5280	56	52T	10.88	11.19	10.87
		5320	64	52T	10.75	11.14	10.78
		5500	100	52T	8.43	8.68	8.26
	2C	5600	120	52T	8.54	8.85	8.52
		5700	140	52T	9.13	9.41	9.06
		5720	144	52T	10.33	10.69	10.31
		5745	149	52T	14.74	15.09	14.71
	3	5765	153	52T	17.94	18.24	17.92
		5785	157	52T	17.95	18.00	17.76
		5825	165	52T	17.94	18.18	17.84
		5845	169	52T	7.69	8.01	7.63
	4	5865	173	52T	7.06	7.42	7.00
		5885	177	52T	8.14	7.87	8.00

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	54	NA
	1	5180	36	106T	11.42	11.46	
		5200	40	106T	11.53	11.51	
		5240	48	106T	11.41	11.41	
		5260	52	106T	14.03	14.05	
	2A	5280	56	106T	13.94	13.98	
		5320	64	106T	13.98	13.95	
		5500	100	106T	11.67	11.54	
	2C	5600	120	106T	11.12	11.16	
		5700	140	106T	11.82	11.71	
		5720	144	106T	13.52	13.41	
		5745	149	106T	14.57	14.21	
	3	5765	153	106T	18.11	18.10	
		5785	157	106T	18.14	17.95	
		5825	165	106T	17.99	17.97	
		5845	169	106T	10.51	10.46	
	4	5865	173	106T	10.43	10.37	
		5885	177	106T	10.54	10.53	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	NA	NA
	1	5180	36	242T	14.40		
		5200	40	242T	15.27		
		5240	48	242T	15.33		
		5260	52	242T	15.36		
	2A	5280	56	242T	15.32		
		5320	64	242T	15.29		
		5500	100	242T	15.05		
	2C	5600	120	242T	14.64		
		5720	144	242T	15.36		
		5745	149	242T	14.82		
		5765	153	242T	19.94		
	3	5785	157	242T	19.82		
		5825	165	242T	19.91		
		5845	169	242T	14.31		
		5865	173	242T	12.81		
	4	5885	177	242T	12.99		

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	NA	NA
	1	5190	38	484T	12.94		
		5230	46	484T	15.45		
		5270	54	484T	14.58		
		5310	62	484T	12.34		
	2A	5510	102	484T	12.72		
		5550	110	484T	15.52		
		5590	118	484T	15.69		
		5670	134	484T	15.88		
	2C	5710	142	484T	14.96		
		5755	151	484T	15.90		
		5795	159	484T	17.91		
		5835	167	484T	17.01		
	4	5875	175	484T	17.09		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67	NA	NA
	1	5210	42	996T	9.84		
	2A	5290	58	996T	12.86		
		5330	106	996T	17.79		
	2C	5610	122	996T	15.69		
		5690	138	996T	15.77		
	3	5775	155	996T	10.70		
	4	5855	171	996T	17.99		

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					68	NA	NA
	1/2A	5250	50	2x996T	11.02		
	2C	5570	114	2x996T	8.57		
	3/4	5815	163	2x996T	14.82		

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H.3.4 5 GHz WLAN Measured 802.11ax/be RU WLAN Power for Pmax – Ant L

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
1		5180	36	26T	6.11	6.63	6.15
		5200	40	26T	6.01	6.62	6.06
		5220	44	26T	7.52	8.16	7.63
		5240	48	26T	6.19	6.66	6.09
2A		5260	52	26T	8.00	8.59	8.01
		5280	56	26T	7.94	8.53	8.03
		5320	64	26T	7.86	8.23	7.79
		5500	100	26T	7.79	8.28	7.69
2C		5600	120	26T	7.18	7.65	7.11
		5720	144	26T	7.35	7.82	7.37
		5745	149	26T	15.27	15.61	15.11
		5765	153	26T	18.39	18.62	18.33
3		5785	157	26T	18.30	18.62	18.19
		5825	165	26T	18.15	18.61	18.24
		5845	169	26T	4.49	5.05	4.49
		5865	173	26T	4.47	4.97	4.41
4		5885	177	26T	5.03	5.59	5.02

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	39	40
1		5180	36	52T	8.73	9.03	8.63
		5200	40	52T	8.62	8.88	8.61
		5240	48	52T	8.75	9.03	8.63
		5260	52	52T	11.34	11.76	11.42
2A		5280	56	52T	11.46	11.76	11.34
		5320	64	52T	11.12	11.45	11.08
		5500	100	52T	9.29	9.62	9.19
		5600	120	52T	9.37	9.65	9.28
2C		5700	140	52T	9.50	9.82	9.47
		5720	144	52T	10.57	10.90	10.51
		5745	149	52T	15.22	15.57	15.13
		5765	153	52T	18.38	18.57	18.36
3		5785	157	52T	18.29	18.55	18.22
		5825	165	52T	18.19	18.52	18.18
		5845	169	52T	7.98	8.29	7.89
		5865	173	52T	7.32	7.72	7.36
4		5885	177	52T	8.09	8.51	8.14

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	54	NA
1		5180	36	106T	11.95	11.92	
		5200	40	106T	11.88	11.88	
		5240	48	106T	11.99	11.91	
		5260	52	106T	14.46	14.46	
2A		5280	56	106T	14.39	14.41	
		5320	64	106T	14.42	14.32	
		5500	100	106T	12.51	12.49	
		5600	120	106T	12.13	11.88	
2C		5700	140	106T	12.37	12.25	
		5720	144	106T	13.69	13.84	
		5745	149	106T	15.43	15.32	
		5765	153	106T	18.43	18.39	
3		5785	157	106T	18.39	18.31	
		5825	165	106T	18.29	18.28	
		5845	169	106T	10.77	10.77	
		5865	173	106T	10.75	10.74	
4		5885	177	106T	10.86	10.86	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	NA	NA
1		5180	36	242T	14.78		
		5200	40	242T	15.74		
		5240	48	242T	15.82		
		5260	52	242T	15.88		
2A		5280	56	242T	15.89		
		5320	64	242T	15.72		
		5500	100	242T	15.94		
		5600	120	242T	15.42		
2C		5720	144	242T	15.81		
		5745	149	242T	15.26		
		5765	153	242T	20.54		
		5785	157	242T	20.24		
3		5825	165	242T	20.17		
		5845	169	242T	14.57		
		5865	173	242T	12.99		
		5885	177	242T	13.36		

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	NA	NA
1		5190	38	484T	13.60		
		5230	46	484T	16.15		
		5270	54	484T	15.17		
		5310	62	484T	13.18		
2A		5510	102	484T	13.76		
		5550	110	484T	16.63		
		5590	118	484T	16.77		
		5670	134	484T	16.45		
2C		5710	142	484T	15.50		
		5755	151	484T	16.56		
		5795	159	484T	18.49		
		5835	167	484T	17.52		
4		5875	175	484T	17.67		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67	NA	NA
1		5210	42	996T	10.44		
		5290	58	996T	13.62		
		5330	106	996T	8.93		
		5610	122	996T	16.56		
2A		5690	138	996T	16.45		
		5775	155	996T	11.39		
		5855	171	996T	18.53		

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					68	NA	NA
1/2A		5250	50	2x996T	11.69		
		5570	114	2x996T	9.51		
		5815	163	2x996T	15.67		

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H.3.5 6 GHz WLAN Measured 802.11ax/be RU WLAN Power for Pmax – Ant R

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
	5	5935	2	26T	7.28	7.48	7.00
		6175	45	26T	7.51	7.93	7.56
		6415	93	26T	7.84	7.29	7.85
	6	6435	97	26T	-8.90	-9.27	-9.00
		6475	105	26T	-8.98	-9.32	-8.91
		6515	113	26T	-8.89	-9.31	-8.92
	7	6535	117	26T	7.69	7.03	7.51
		6695	149	26T	7.51	7.92	7.41
		6835	177	26T	7.69	7.76	7.70
	8	6855	181	26T	6.49	6.40	6.34
		6895	189	26T	-15.22	-16.66	-15.18
		6995	209	26T	-15.57	-15.45	-15.45
		7115	233	26T	-15.10	-15.47	-15.06
20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	39	40
	5	5935	2	52T	10.67	10.91	10.45
		6175	45	52T	10.99	10.67	10.86
		6415	93	52T	10.62	10.95	10.66
	6	6435	97	52T	-5.37	-5.66	-5.14
		6475	105	52T	-5.24	-5.01	-5.26
		6515	113	52T	-5.25	-5.01	-5.35
	7	6535	117	52T	10.85	10.66	10.72
		6695	149	52T	10.81	10.57	10.77
		6835	177	52T	10.62	10.84	10.55
	8	6855	181	52T	9.04	9.31	9.39
		6895	189	52T	-12.31	-12.63	-12.37
		6995	209	52T	-12.19	-12.35	-12.13
		7115	233	52T	-12.25	-12.42	-12.24
20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	54	NA
		5935	2	106T	13.84	13.69	
		6175	45	106T	13.67	13.54	
		6415	93	106T	13.89	13.88	
	6	6435	97	106T	-2.94	-2.55	
		6475	105	106T	-2.66	-2.69	
		6515	113	106T	-2.64	-2.71	
	7	6535	117	106T	13.55	13.56	
		6695	149	106T	13.42	13.42	
		6835	177	106T	13.73	13.74	
	8	6855	181	106T	11.68	11.67	
		6895	189	106T	-11.94	-11.94	
		6995	209	106T	-11.80	-11.66	
		7115	233	106T	-11.87	-11.96	
20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	NA	NA
	5	5935	2	242T	15.63		
		6175	45	242T	15.99		
		6415	93	242T	15.70		
	6	6435	97	242T	-0.64		
		6475	105	242T	-0.13		
		6515	113	242T	-0.12		
	7	6535	117	242T	15.51		
		6695	149	242T	15.85		
		6835	177	242T	15.71		
	8	6855	181	242T	14.09		
		6895	189	242T	-0.09		
		6995	209	242T	-8.85		
		7115	233	242T	-8.95		
40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	NA	NA
	5	5965	3	484T	17.17		
		6165	43	484T	17.63		
		6405	91	484T	17.27		
	6	6445	99	484T	2.63		
		6485	107	484T	2.66		
		6525	115	484T	1.57		
	7	6565	123	484T	17.51		
		6685	147	484T	17.81		
		6845	179	484T	17.22		
	8	6885	187	484T	-0.31		
		7005	211	484T	-0.27		
		7085	227	484T	-0.42		
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67.00	NA	NA
	5	5985	7	996T	15.11		
		6055	23	996T	17.11		
		6145	39	996T	17.44		
	6	6385	87	996T	17.15		
		6465	103	996T	6.17		
		6545	119	996T	17.11		
	7	6625	135	996T	17.03		
		6705	151	996T	18.45		
		6865	183	996T	18.49		
	8	6945	199	996T	3.03		
		7025	215	996T	3.06		
160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					68	NA	NA
	5	6025	15	2x996T	14.18		
		6185	47	2x996T	15.02		
	6	6345	79	2x996T	17.36		
		6505	111	2x996T	15.51		
	8	6665	143	2x996T	17.62		
		6985	207	2x996T	4.23		
320MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					69	NA	NA
	5	6105	31	4x996T	17.42		
		6265	63	4x996T	17.17		
	6	6425	95	4x996T	9.87		
		6585	127	4x996T	17.22		
	8	6905	191	4x996T	7.70		

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H.3.6 6 GHz WLAN Measured 802.11ax/be RU WLAN Power for Pmax – Ant L

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
	5	5935	2	26T	6.81	7.24	6.66
		6175	45	26T	7.12	7.61	7.78
		6415	93	26T	7.31	7.31	7.21
	6	6435	97	26T	-8.58	-9.09	-8.58
		6475	105	26T	-8.72	-9.10	-8.69
		6515	113	26T	-8.65	-9.13	-8.69
	7	6535	117	26T	6.95	7.46	6.84
		6695	149	26T	7.15	7.75	7.22
		6835	177	26T	7.15	7.93	7.25
	8	6855	181	26T	5.41	6.42	5.35
		6895	189	26T	-16.03	-16.29	-15.81
		6995	209	26T	-15.35	-15.89	-15.27
	5	5935	2	52T	9.96	10.14	9.68
		6175	45	52T	10.14	10.63	10.00
		6415	93	52T	10.58	10.95	10.53
	6	6435	97	52T	-5.73	-5.34	-5.76
		6475	105	52T	-5.80	-5.44	-5.74
		6515	113	52T	-5.69	-5.41	-5.74
	7	6535	117	52T	9.96	10.54	9.86
		6695	149	52T	10.24	10.59	10.16
		6835	177	52T	10.55	10.87	10.49
	8	6855	181	52T	9.02	9.33	8.86
		6895	189	52T	-12.99	-13.12	-12.87
		6995	209	52T	-12.51	-12.67	-12.41
	5	5935	2	106T	13.30	13.15	NA
		6175	45	106T	13.44	13.37	NA
		6415	93	106T	13.73	13.76	NA
	6	6435	97	106T	-2.81	-2.93	NA
		6475	105	106T	-3.03	-3.00	NA
		6515	113	106T	-2.94	-2.98	NA
	7	6535	117	106T	13.44	13.33	NA
		6695	149	106T	13.54	13.58	NA
		6835	177	106T	13.75	13.78	NA
	8	6855	181	106T	11.71	11.68	NA
		6895	189	106T	-12.60	-12.55	NA
		6995	209	106T	-12.16	-12.06	NA
	5	5935	2	242T	15.12	NA	NA
		6175	45	242T	15.30	NA	NA
		6415	93	242T	15.66	NA	NA
	6	6435	97	242T	-0.56	NA	NA
		6475	105	242T	-0.70	NA	NA
		6515	113	242T	-0.72	NA	NA
	7	6535	117	242T	15.29	NA	NA
		6695	149	242T	15.47	NA	NA
		6835	177	242T	14.82	NA	NA
	8	6855	181	242T	14.05	NA	NA
		6895	189	242T	-9.70	NA	NA
		6995	209	242T	-9.28	NA	NA
	5	5965	3	484T	17.31	NA	NA
		6165	43	484T	17.27	NA	NA
		6405	91	484T	17.33	NA	NA
	6	6445	99	484T	2.96	NA	NA
		6485	107	484T	2.89	NA	NA
		6525	115	484T	1.54	NA	NA
	7	6565	123	484T	17.49	NA	NA
		6685	147	484T	17.70	NA	NA
		6845	179	484T	17.47	NA	NA
	8	6885	187	484T	-0.37	NA	NA
		7005	211	484T	-0.05	NA	NA
		7085	227	484T	-0.08	NA	NA
	5	5985	7	996T	17.22	NA	NA
		6055	23	996T	17.53	NA	NA
		6145	39	996T	17.13	NA	NA
	6	6385	87	996T	6.08	NA	NA
		6465	103	996T	17.05	NA	NA
		6545	119	996T	16.90	NA	NA
	7	6625	135	996T	18.36	NA	NA
		6705	151	996T	18.77	NA	NA
		6865	183	996T	3.03	NA	NA
	8	6945	199	996T	3.06	NA	NA
		7025	215	996T	NA	NA	NA
	5	6025	15	2x996T	14.61	NA	NA
		6185	47	2x996T	15.27	NA	NA
		6345	79	2x996T	17.36	NA	NA
	6	6505	111	2x996T	17.07	NA	NA
		6665	143	2x996T	17.59	NA	NA
		6985	207	2x996T	4.61	NA	NA
	5	6105	31	4x996T	17.49	NA	NA
		6265	63	4x996T	17.18	NA	NA
		6425	95	4x996T	10.07	NA	NA
	6	6585	127	4x996T	17.09	NA	NA
		6905	191	4x996T	7.98	NA	NA
		NA	NA	NA	NA	NA	NA
	7	6585	127	4x996T	17.09	NA	NA
		6905	191	4x996T	7.98	NA	NA
		NA	NA	NA	NA	NA	NA
	8	6905	191	4x996T	7.98	NA	NA
		NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA

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