

APPENDIX I: IEEE 802.11AX RU SAR EXCLUSION

1.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax 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 and 996T.

Per FCC Guidance, 802.11ax 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 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.

1.2 IEEE 802.11ax RU Target Powers

1.2.1 Maximum 802.11ax RU WLAN Output Power

Tones		SISO (ANT1/2) /in dBm				MIMO (ALL) /in dBm			
		2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz	2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz
26T	Maximum	15	10.5	10.5	10.5	18	13.5	13.5	13.5
	Nominal	14	9.5	9.5	9.5	17	12.5	12.5	12.5
52T	Maximum	15	11	11	11	18	14	14	14
	Nominal	14	10	10	10	17	13	13	13
106T	Maximum	16	14.5	14.5	14.5	19	17.5	17.5	17.5
	Nominal	15	13.5	13.5	13.5	18	16.5	16.5	16.5
242T	Maximum	16.5	15	15	15	19.5	18	18	18
				Ch. 38: 13.5 Ch. 62: 13.0 Ch. 102: 13.0	Ch. 42: 13.0 Ch. 58: 11.5 Ch. 106: 11.5			Ch. 38: 16.5 Ch. 62: 16.0 Ch. 102: 16.0	Ch. 42: 16.0 Ch. 58: 14.5 Ch. 106: 14.5
	Nominal	15.5	14	14	14	18.5	17	17	17
				Ch. 38: 12.5 Ch. 62: 12.0 Ch. 102: 12.0	Ch. 42: 12.0 Ch. 58: 10.5 Ch. 106: 10.5			Ch. 38: 15.5 Ch. 62: 15.0 Ch. 102: 15.0	Ch. 42: 15.0 Ch. 58: 13.5 Ch. 106: 13.5
484T	Maximum			15	15			18	18
				Ch. 38: 13.5 Ch. 62: 13.0 Ch. 102: 13.0	Ch. 42: 13.0 Ch. 58: 11.5 Ch. 106: 11.5			Ch. 38: 16.5 Ch. 62: 16.0 Ch. 102: 16.0	Ch. 42: 16.0 Ch. 58: 14.5 Ch. 106: 14.5
	Nominal			14	14			17	17
				Ch. 38: 12.5 Ch. 62: 12.0 Ch. 102: 12.0	Ch. 42: 12.0 Ch. 58: 10.5 Ch. 106: 10.5			Ch. 38: 15.5 Ch. 62: 15.0 Ch. 102: 15.0	Ch. 42: 15.0 Ch. 58: 13.5 Ch. 106: 13.5
996T	Maximum				15				18
					Ch. 42: 13.0 Ch. 58: 11.5 Ch. 106: 11.5				Ch. 42: 16.0 Ch. 58: 14.5 Ch. 106: 14.5
	Nominal				14				17
					Ch. 42: 12.0 Ch. 58: 10.5 Ch. 106: 10.5				Ch. 42: 15.0 Ch. 58: 13.5 Ch. 106: 13.5

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1.2.2 Reduced 802.11ax RU WLAN Output Power during conditions with simultaneous 2.4 GHz and 5 GHz WLAN and/or 5G NR Active

Tones		SISO (ANT1/2) /in dBm				MIMO (ALL) /in dBm			
		2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz	2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz
26T	Maximum	15	10.5	10.5	10.5	18	13.5	13.5	13.5
	Nominal	14	9.5	9.5	9.5	17	12.5	12.5	12.5
52T	Maximum	15	11	11	11	18	14	14	14
	Nominal	14	10	10	10	17	13	13	13
106T	Maximum	15	14.5	14.5	14.5	18	17.5	17.5	17.5
	Nominal	14	13.5	13.5	13.5	17	16.5	16.5	16.5
242T	Maximum	15	15	15	15	18	18	18	18
				Ch. 38: 13.5 Ch. 62: 13.0 Ch. 102: 13.0	Ch. 42: 13.0 Ch. 58: 11.5 Ch. 106: 11.5			Ch. 38: 16.5 Ch. 62: 16.0 Ch. 102: 16.0	Ch. 42: 16.0 Ch. 58: 14.5 Ch. 106: 14.5
	Nominal	14	14	14	14	17	17	17	17
				Ch. 38: 12.5 Ch. 62: 12.0 Ch. 102: 12.0	Ch. 42: 12.0 Ch. 58: 10.5 Ch. 106: 10.5			Ch. 38: 15.5 Ch. 62: 15.0 Ch. 102: 15.0	Ch. 42: 15.0 Ch. 58: 13.5 Ch. 106: 13.5
484T	Maximum			15	15			18	18
				Ch. 38: 13.5 Ch. 62: 13.0 Ch. 102: 13.0	Ch. 42: 13.0 Ch. 58: 11.5 Ch. 106: 11.5			Ch. 38: 16.5 Ch. 62: 16.0 Ch. 102: 16.0	Ch. 42: 16.0 Ch. 58: 14.5 Ch. 106: 14.5
	Nominal			14	14			17	17
				Ch. 38: 12.5 Ch. 62: 12.0 Ch. 102: 12.0	Ch. 42: 12.0 Ch. 58: 10.5 Ch. 106: 10.5			Ch. 38: 15.5 Ch. 62: 15.0 Ch. 102: 15.0	Ch. 42: 15.0 Ch. 58: 13.5 Ch. 106: 13.5
996T	Maximum				15				18
					Ch. 42: 13.0 Ch. 58: 11.5 Ch. 106: 11.5				Ch. 42: 16.0 Ch. 58: 14.5 Ch. 106: 14.5
	Nominal				14				17
					Ch. 42: 12.0 Ch. 58: 10.5 Ch. 106: 10.5				Ch. 42: 15.0 Ch. 58: 13.5 Ch. 106: 13.5

1.2.3 Reduced 802.11ax RU WLAN Output Power during conditions with Receiver active or with Receiver active during simultaneous 2.4 GHz WLAN and 5 GHz WLAN and/or 5G NR FR1 Active

Tones		SISO (ANT1/2) /in dBm				MIMO (ALL) /in dBm			
		2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz	2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz
26T	Maximum	13	10.5	10.5	10.5	16	13.5	13.5	13.5
	Nominal	12	9.5	9.5	9.5	15	12.5	12.5	12.5
52T	Maximum	13	11	11	11	16	14	14	14
	Nominal	12	10	10	10	15	13	13	13
106T	Maximum	13	11	11	11	16	14	14	14
	Nominal	12	10	10	10	15	13	13	13
242T	Maximum	13	11	11	11	16	14	14	14
	Nominal	12	10	10	10	15	13	13	13
484T	Maximum			11	11			14	14
	Nominal			10	10			13	13
996T	Maximum				11				14
	Nominal				10				13

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1.2.4

Reduced 802.11ax RU WLAN Output Power during conditions with Receiver active or with Receiver active during simultaneous 2.4 GHz WLAN and 5 GHz WLAN and/or 5G NR FR2 Active

Tones		SISO (ANT1/2) /in dBm				MIMO (ALL) /in dBm			
		2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz	2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz
26T	Maximum	11	10.5	10.5	10.5	14	13.5	13.5	13.5
	Nominal	10	9.5	9.5	9.5	13	12.5	12.5	12.5
52T	Maximum	11	11	11	11	14	14	14	14
	Nominal	10	10	10	10	13	13	13	13
106T	Maximum	11	11	11	11	14	14	14	14
	Nominal	10	10	10	10	13	13	13	13
242T	Maximum	11	11	11	11	14	14	14	14
	Nominal	10	10	10	10	13	13	13	13
484T	Maximum			11	11			14	14
	Nominal			10	10			13	13
996T	Maximum				11				14
	Nominal				10				13

1.3 IEEE 802.11ax Measured Powers.

Table 1
Maximum 2.4 GHz 802.11ax RU Output Power – Ant 2 – Q

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	14.54	2412	1	52T	37	14.73
			4	14.49				38	14.99
			8	14.87				40	14.71
2437	6	26T	0	14.56	2437	6	52T	37	14.72
			4	14.66				38	14.74
			8	14.58				40	14.51
2462	11	26T	0	14.62	2462	11	52T	37	14.73
			4	14.62				38	14.76
			8	14.53				40	14.52

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)					
2412	1	106T	53	15.92	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
			54	15.95					
2437	6	106T	53	15.80	2412	1	242T	61	16.39
			54	15.72	2437	6	242T	61	15.95
2462	11	106T	53	15.80	2462	11	242T	61	16.21
			54	15.82					

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Table 2
Maximum 2.4 GHz 802.11ax RU Output Power – MIMO– Q

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]	Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]
				MIMO					MIMO
				AVG					AVG
2412	1	26T	0	17.78	2412	1	52T	37	17.60
			4	17.52				38	17.89
			8	17.74				40	17.78
2437	6	26T	0	17.69	2437	6	52T	37	17.78
			4	17.79				38	17.82
			8	17.61				40	17.77
2462	11	26T	0	17.70	2462	11	52T	37	17.86
			4	17.77				38	17.69
			8	17.37				40	17.39

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]	Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]
				MIMO					MIMO
				AVG					AVG
2412	1	106T	53	18.92	2412	1	242T	61	19.31
			54	18.83					
2437	6	106T	53	18.65					
			54	18.76					
2462	11	106T	53	18.87	2437	6	242T	61	19.12
			54	18.84					
					2462	11	242T	61	19.22

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Table 3
Maximum 5 GHz 802.11ax RU Output Power – Ant 1 – Q

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
20MHz BW	1	5180	36	26T	10.43	10.48	10.41
		5200	40	26T	10.21	10.26	10.09
		5240	48	26T	10.37	10.39	10.23
	2A	5260	52	26T	10.35	10.34	10.15
		5280	56	26T	10.42	10.45	10.27
		5320	64	26T	10.23	10.24	10.49
	2C	5500	100	26T	10.26	10.38	10.34
		5600	120	26T	10.07	10.12	10.08
		5720	144	26T	10.48	10.11	10.08
	3	5745	149	26T	10.41	10.48	10.47
20MHz BW	1	5180	36	52T	10.93	10.97	10.91
		5200	40	52T	10.92	10.86	10.79
		5240	48	52T	10.86	10.91	10.76
	2A	5260	52	52T	10.88	10.89	10.77
		5280	56	52T	10.92	10.91	10.78
		5320	64	52T	10.67	10.66	10.98
	2C	5500	100	52T	10.41	10.48	10.39
		5600	120	52T	10.72	10.79	10.65
		5720	144	52T	10.62	10.81	10.79
	3	5745	149	52T	10.91	10.63	10.58
20MHz BW	1	5180	36	106T	14.32	14.27	
		5200	40	106T	14.15	14.05	
		5240	48	106T	14.11	14.03	
	2A	5260	52	106T	14.15	14.04	
		5280	56	106T	14.15	14.08	
		5320	64	106T	14.05	14.02	
	2C	5500	100	106T	14.27	14.27	
		5600	120	106T	14.19	14.10	
		5720	144	106T	14.01	14.06	
	3	5745	149	106T	14.25	14.29	
20MHz BW	1	5180	36	242T	14.73		
		5200	40	242T	14.62		
		5240	48	242T	14.64		
	2A	5260	52	242T	14.55		
		5280	56	242T	14.70		
		5320	64	242T	14.65		
	2C	5500	100	242T	14.57		
		5600	120	242T	14.84		
		5720	144	242T	14.81		
	3	5745	149	242T	14.44		
20MHz BW	1	5180	36	484T	13.47		
		5200	40	484T	14.85		
		5240	48	484T	14.86		
	2A	5260	52	484T	12.77		
		5280	56	484T			
		5320	64	484T			
	2C	5500	100	484T	12.98		
		5590	118	484T	14.49		
		5710	142	484T	14.64		
	3	5755	151	484T	14.53		
40MHz BW	1	5190	38	26T	10.11	10.16	10.02
		5230	46	26T	10.42	10.25	10.07
		5270	54	26T	10.13	10.49	10.42
	2A	5310	62	26T	10.13	10.48	10.46
		5510	102	26T	10.10	9.89	10.01
		5590	118	26T	10.24	10.06	10.17
	2C	5710	142	26T	10.02	10.28	10.02
		5755	151	26T	10.41	10.46	10.07
		5795	159	26T	10.13	10.23	10.44
	3	5755	151	26T	10.41	10.46	10.07
40MHz BW	1	5190	38	52T	10.73	10.54	10.55
		5230	46	52T	10.47	10.76	10.68
		5270	54	52T	10.67	10.99	10.50
	2A	5310	62	52T	10.72	10.48	10.57
		5510	102	52T	10.25	10.67	10.23
		5590	118	52T	10.34	10.81	10.48
	2C	5710	142	52T	10.75	10.79	10.52
		5755	151	52T	10.59	10.76	10.41
		5795	159	52T	10.72	10.80	10.53
	3	5755	151	52T	10.59	10.76	10.41
40MHz BW	1	5190	38	106T	14.18	14.47	14.07
		5230	46	106T	14.17	14.25	13.96
		5270	54	106T	14.19	14.28	13.94
	2A	5310	62	106T	14.44	14.10	14.29
		5510	102	106T	14.43	14.04	14.33
		5590	118	106T	14.12	14.42	14.16
	2C	5710	142	106T	14.09	14.46	14.20
		5755	151	106T	14.04	14.32	14.11
		5795	159	106T	14.08	14.34	14.06
	3	5755	151	106T	14.04	14.32	14.11
40MHz BW	1	5190	38	242T	13.25	13.07	
		5230	46	242T	14.90	14.76	
		5270	54	242T	14.97	14.80	
	2A	5310	62	242T	12.63	12.97	
		5510	102	242T	12.94	12.85	
		5590	118	242T	14.50	14.59	
	2C	5710	142	242T	14.58	14.81	
		5755	151	242T	14.46	14.62	
		5795	159	242T	14.60	14.56	
	3	5755	151	242T	14.46	14.62	
40MHz BW	1	5190	38	484T	13.47		
		5230	46	484T	14.85		
		5270	54	484T	14.86		
	2A	5310	62	484T	12.77		
		5280	56	484T			
		5320	64	484T			
	2C	5510	102	484T	12.98		
		5590	118	484T	14.49		
		5710	142	484T	14.64		
	3	5755	151	484T	14.53		
		5795	159	484T	14.54		

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80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	18	36
	1	5210	42	26T	10.26	10.39	10.27
	2A	5290	58	26T	10.35	10.47	10.23
	2C	5530	106	26T	10.27	10.14	10.46
		5610	122	26T	10.42	10.36	10.25
		5690	138	26T	9.91	10.44	10.43
	3	5775	155	26T	9.97	10.23	10.02
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	44	52
	1	5210	42	52T	10.75	10.89	10.81
	2A	5290	58	52T	10.87	10.81	10.74
	2C	5530	106	52T	10.57	10.88	10.73
		5610	122	52T	10.93	10.88	10.76
		5690	138	52T	10.64	10.62	10.69
	3	5775	155	52T	10.36	10.97	10.77
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	56	60
	1	5210	42	106T	14.37	14.42	14.26
	2A	5290	58	106T	14.28	14.33	14.23
	2C	5530	106	106T	14.20	14.45	14.32
		5610	122	106T	14.22	14.49	14.48
		5690	138	106T	13.89	14.37	14.38
	3	5775	155	106T	13.86	14.32	14.17
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	62	64
	1	5210	42	242T	12.81	12.82	12.42
	2A	5290	58	242T	11.16	11.04	10.93
	2C	5530	106	242T	11.06	11.23	11.20
		5610	122	242T	14.80	14.96	14.99
		5690	138	242T	14.96	14.32	14.48
	3	5775	155	242T	14.82	14.95	14.99
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	66	N/A
	1	5210	42	484T	12.79	12.55	
	2A	5290	58	484T	11.16	11.07	
	2C	5530	106	484T	11.32	11.49	
		5610	122	484T	14.89	14.98	
		5690	138	484T	14.28	14.49	
	3	5775	155	484T	14.82	14.99	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67	N/A	N/A
	1	5210	42	996T	12.84		
	2A	5290	58	996T	11.30		
	2C	5530	106	996T	11.47		
		5610	122	996T	14.72		
		5690	138	996T	14.96		
	3	5775	155	996T	14.74		

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Table 4
Maximum 5 GHz 802.11ax RU Output Power – MIMO– Q

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 4	RU Index: 8
					MIMO	MIMO	MIMO
1	1	5180	36	26T	13.31	13.40	13.28
		5200	40	26T	13.28	13.37	13.22
		5240	48	26T	13.34	13.42	13.29
		5260	52	26T	13.38	13.42	13.27
	2A	5280	56	26T	13.13	13.34	13.15
		5320	64	26T	13.11	13.20	13.48
2C	2C	5500	100	26T	13.27	13.39	13.31
		5600	120	26T	13.05	13.16	13.01
		5720	144	26T	13.43	13.29	13.19
	3	5745	149	26T	13.35	13.40	13.34
		5785	157	26T	13.44	13.31	13.21
		5825	165	26T	13.22	13.27	13.37
20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 39	RU Index: 40
					MIMO	MIMO	MIMO
1	1	5180	36	52T	13.86	13.90	13.77
		5200	40	52T	13.95	13.88	13.83
		5240	48	52T	13.86	13.95	13.79
		5260	52	52T	13.91	13.91	13.82
	2A	5280	56	52T	13.77	13.75	13.65
		5320	64	52T	13.60	13.59	13.74
2C	2C	5500	100	52T	13.65	13.66	13.58
		5600	120	52T	13.86	13.90	13.78
		5720	144	52T	13.57	13.63	13.55
	3	5745	149	52T	13.91	13.75	13.69
		5785	157	52T	13.74	13.58	13.49
		5825	165	52T	13.73	13.72	13.66
20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 54	N/A
					MIMO	MIMO	MIMO
1	1	5180	36	106T	17.24	17.20	
		5200	40	106T	17.20	17.12	
		5240	48	106T	17.15	17.07	
		5260	52	106T	17.17	17.13	
	2A	5280	56	106T	17.06	16.98	
		5320	64	106T	17.00	16.93	
2C	2C	5500	100	106T	17.13	17.09	
		5600	120	106T	17.30	17.22	
		5720	144	106T	17.20	17.10	
	3	5745	149	106T	17.11	17.13	
		5785	157	106T	17.35	17.29	
		5825	165	106T	17.39	17.37	
20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	N/A	N/A
					MIMO	MIMO	MIMO
1	1	5180	36	242T	17.81		
		5200	40	242T	17.72		
		5240	48	242T	17.77		
		5260	52	242T	17.73		
	2A	5280	56	242T	17.67		
		5320	64	242T	17.56		
2C	2C	5500	100	242T	17.55		
		5600	120	242T	17.80		
		5720	144	242T	17.81		
	3	5745	149	242T	17.72		
		5785	157	242T	17.56		
		5825	165	242T	17.61		
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 8	RU Index: 17
					MIMO	MIMO	MIMO
1	1	5190	38	26T	13.13	13.24	13.08
		5230	46	26T	13.20	13.31	12.89
		5270	54	26T	13.22	13.38	13.35
		5310	62	26T	13.22	13.38	13.31
	2A	5510	102	26T	13.16	13.05	13.08
		5590	118	26T	13.07	13.20	13.00
2C	2C	5710	142	26T	13.11	13.39	12.95
		5755	151	26T	13.30	13.48	13.02
		5795	159	26T	13.29	13.30	13.33
	3	5755	151	26T	13.30	13.48	13.02
		5795	159	26T	13.29	13.30	13.33
		5795	159	26T	13.29	13.30	13.33
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 40	RU Index: 44
					MIMO	MIMO	MIMO
1	1	5190	38	52T	13.77	13.63	13.63
		5230	46	52T	13.61	13.88	13.62
		5270	54	52T	13.82	13.84	13.62
		5310	62	52T	13.81	13.59	13.67
	2A	5510	102	52T	13.48	13.83	13.43
		5590	118	52T	13.52	13.87	13.53
2C	2C	5710	142	52T	13.53	13.64	13.28
		5755	151	52T	13.75	13.66	13.51
		5795	159	52T	13.67	13.81	13.72
	3	5755	151	52T	13.75	13.66	13.51
		5795	159	52T	13.67	13.81	13.72
		5795	159	52T	13.67	13.81	13.72
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 54	RU Index: 56
					MIMO	MIMO	MIMO
1	1	5190	38	106T	17.10	17.38	17.02
		5230	46	106T	17.06	17.21	17.09
		5270	54	106T	17.28	17.14	17.09
		5310	62	106T	17.23	17.13	17.30
	2A	5510	102	106T	17.29	17.20	17.37
		5590	118	106T	17.18	17.47	17.15
2C	2C	5710	142	106T	16.92	17.22	17.24
		5755	151	106T	17.18	17.41	17.05
		5795	159	106T	17.13	17.30	17.24
	3	5755	151	106T	17.18	17.41	17.05
		5795	159	106T	17.13	17.30	17.24
		5795	159	106T	17.13	17.30	17.24
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	N/A
					MIMO	MIMO	MIMO
1	1	5190	38	242T	16.16	16.21	
		5230	46	242T	17.69	17.89	
		5270	54	242T	17.73	17.85	
		5310	62	242T	15.69	15.81	
	2A	5510	102	242T	15.96	15.85	
		5590	118	242T	17.60	17.60	
2C	2C	5710	142	242T	17.62	17.87	
		5755	151	242T	17.60	17.54	
		5795	159	242T	17.71	17.55	
	3	5755	151	242T	17.60	17.54	
		5795	159	242T	17.71	17.55	
		5795	159	242T	17.71	17.55	
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 65	N/A	N/A
					MIMO	MIMO	MIMO
1	1	5190	38	484T	16.48		
		5230	46	484T	17.76		
		5270	54	484T	17.92		
		5310	62	484T	15.76		
	2A	5510	102	484T	15.99		
		5590	118	484T	17.49		
2C	2C	5710	142	484T	17.69		
		5755	151	484T	17.60		
		5795	159	484T	17.63		
	3	5755	151	484T	17.60		
		5795	159	484T	17.63		
		5795	159	484T	17.63		

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80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
	1	5210	42	26T	13.28	13.45	13.14
	2A	5290	58	26T	13.27	13.40	13.27
	2C	5530	106	26T	13.35	13.13	13.30
		5610	122	26T	13.27	13.35	13.35
		5690	138	26T	13.19	13.47	13.38
	3	5775	155	26T	13.22	13.34	13.09
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO
	1	5210	42	52T	13.81	13.94	13.83
	2A	5290	58	52T	13.79	13.82	13.75
	2C	5530	106	52T	13.66	13.90	13.63
		5610	122	52T	13.95	13.82	13.67
		5690	138	52T	13.79	13.81	13.69
	3	5775	155	52T	13.66	13.91	13.66
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
	1	5210	42	106T	17.29	17.37	17.32
	2A	5290	58	106T	17.22	17.30	17.25
	2C	5530	106	106T	17.21	17.36	17.31
		5610	122	106T	17.13	17.32	17.27
		5690	138	106T	17.04	17.27	17.17
	3	5775	155	106T	17.17	17.35	17.24
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
	1	5210	42	242T	15.62	15.84	15.62
	2A	5290	58	242T	14.30	14.25	14.14
	2C	5530	106	242T	13.97	14.15	14.09
		5610	122	242T	17.68	17.79	17.87
		5690	138	242T	17.86	17.50	17.60
	3	5775	155	242T	17.68	17.69	17.77
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 65	RU Index: 66	N/A
					MIMO	MIMO	MIMO
	1	5210	42	484T	15.71	15.68	
	2A	5290	58	484T	14.28	14.25	
	2C	5530	106	484T	14.40	14.50	
		5610	122	484T	17.74	17.93	
		5690	138	484T	17.49	17.68	
	3	5775	155	484T	17.92	17.79	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 67	N/A	N/A
					MIMO	MIMO	MIMO
	1	5210	42	996T	15.74		
	2A	5290	58	996T	14.40		
	6.5	5530	106	996T	14.30		
		5610	122	996T	17.74		
		5690	138	996T	17.94		
	3	5775	155	996T	17.70		

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Table 5
Maximum 2.4 GHz 802.11ax RU Output Power – Ant 2 – N

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	14.76	2412	1	52T	37	14.89
			4	14.98				38	14.79
			8	14.85				40	14.87
2437	6	26T	0	14.83	2437	6	52T	37	14.88
			4	14.89				38	14.95
			8	14.98				40	14.72
2462	11	26T	0	14.92	2462	11	52T	37	14.95
			4	14.88				38	14.98
			8	14.75				40	14.85

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	15.97	2412	1	242T	61	16.39
			54	15.78					
2437	6	106T	53	15.98					
			54	15.82					
2462	11	106T	53	15.99	2437	6	242T	61	16.49
			54	15.67	2462	11	242T	61	16.47

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Table 6
Maximum 2.4 GHz 802.11ax RU Output Power – MIMO– N

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]	Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]
				MIMO					MIMO
				AVG					AVG
2412	1	26T	0	17.98	2412	1	52T	37	17.72
			4	17.85				38	17.95
			8	17.75				40	17.48
2437	6	26T	0	17.81	2437	6	52T	37	17.87
			4	17.83				38	17.56
			8	17.74				40	17.84
2462	11	26T	0	17.67	2462	11	52T	37	17.50
			4	17.70				38	17.55
			8	17.73				40	17.47

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]	Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]
				MIMO					MIMO
				AVG					AVG
2412	1	106T	53	18.93	2412	1	242T	61	19.16
			54	18.71					
2437	6	106T	53	18.99					
			54	18.65					
2462	11	106T	53	18.58	2462	11	242T	61	19.48
			54	18.47					

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Table 7
Maximum 5 GHz 802.11ax RU Output Power – Ant 1 – N

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
20MHz BW	1	5180	36	26T	10.34	10.39	10.33
		5200	40	26T	10.18	10.27	10.21
		5240	48	26T	10.15	10.23	10.18
		5260	52	26T	10.26	10.32	10.25
	2A	5280	56	26T	10.09	10.16	10.13
		5320	64	26T	10.38	10.42	10.31
		5500	100	26T	10.16	10.18	10.08
	2C	5600	120	26T	10.34	10.33	10.25
		5720	144	26T	10.39	10.35	10.26
		5745	149	26T	10.11	10.14	10.09
20MHz BW	1	5180	36	52T	10.78	10.86	10.77
		5200	40	52T	10.83	10.92	10.85
		5240	48	52T	10.91	10.98	10.93
		5260	52	52T	10.31	10.39	10.33
	2A	5280	56	52T	10.83	10.88	10.81
		5320	64	52T	10.97	10.97	10.94
		5500	100	52T	10.89	10.87	10.79
	2C	5600	120	52T	10.96	10.97	10.89
		5720	144	52T	10.93	10.94	10.85
		5745	149	52T	10.82	10.81	10.74
20MHz BW	1	5180	36	106T	14.43	14.45	
		5200	40	106T	14.36	14.35	
		5240	48	106T	14.39	14.41	
		5260	52	106T	14.48	14.49	
	2A	5280	56	106T	13.89	13.92	
		5320	64	106T	13.81	13.83	
		5500	100	106T	13.88	13.84	
	2C	5600	120	106T	13.71	13.66	
		5720	144	106T	14.48	14.39	
		5745	149	106T	13.76	13.73	
20MHz BW	1	5180	36	242T	14.87		
		5200	40	242T	14.96		
		5240	48	242T	14.93		
		5260	52	242T	14.73		
	2A	5280	56	242T	14.92		
		5320	64	242T	14.94		
		5500	100	242T	14.98		
	2C	5600	120	242T	14.83		
		5720	144	242T	14.99		
		5745	149	242T	14.82		
20MHz BW	1	5180	36	484T	13.21		
		5200	40	484T	14.73		
		5270	54	484T	14.98		
		5310	62	484T	12.69		
	2A	5510	102	484T	12.64		
		5590	118	484T	14.97		
		5710	142	484T	14.48		
	2C	5755	151	484T	14.87		
		5795	159	484T	14.57		

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80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	18	36
					10.49	10.45	10.32
	1	5210	42	26T	10.48	10.47	10.31
	2A	5290	58	26T	10.43	10.48	10.34
	2C	5530	106	26T	10.46	10.49	10.31
		5610	122	26T	10.15	10.48	10.08
		5690	138	26T	10.23	10.45	10.43
	3	5775	155	26T			
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	44	52
					10.63	10.73	10.98
	1	5210	42	52T	10.65	10.98	10.89
	2A	5290	58	52T	10.83	10.97	10.98
	2C	5530	106	52T	10.93	10.98	10.73
		5610	122	52T	10.86	10.55	10.78
		5690	138	52T	10.94	10.98	10.67
	3	5775	155	52T			
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	56	60
					14.23	14.15	14.16
	1	5210	42	106T	14.29	13.95	14.48
	2A	5290	58	106T	14.47	14.49	14.48
	2C	5530	106	106T	14.24	14.21	14.49
		5610	122	106T	14.22	14.43	14.11
		5690	138	106T	14.47	14.48	14.17
	3	5775	155	106T			
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	62	64
					12.82	12.97	12.67
	1	5210	42	242T	11.33	11.46	10.98
	2A	5290	58	242T	11.09	11.24	11.15
	2C	5530	106	242T	14.91	14.86	14.69
		5610	122	242T	14.82	14.94	14.73
		5690	138	242T	14.45	14.48	14.85
	3	5775	155	242T			
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	66	N/A
					12.85	12.65	
	1	5210	42	484T	11.39	10.96	
	2A	5290	58	484T	11.22	11.28	
	2C	5530	106	484T	14.84	14.72	
		5610	122	484T	14.83	14.77	
		5690	138	484T	14.98	14.91	
	3	5775	155	484T			
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67	N/A	N/A
					12.78		
	1	5210	42	996T	11.47		
	2A	5290	58	996T	11.46		
	2C	5530	106	996T	14.96		
		5610	122	996T	14.98		
		5690	138	996T	14.76		
	3	5775	155	996T			

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Table 8
Maximum 5 GHz 802.11ax RU Output Power – MIMO– N

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 4	RU Index: 8
					MIMO	MIMO	MIMO
20MHz BW	1	5180	36	26T	13.33	13.43	13.34
		5200	40	26T	13.03	13.07	13.04
		5240	48	26T	13.26	13.30	13.14
		5260	52	26T	13.27	13.22	13.09
	2A	5280	56	26T	13.07	13.08	13.01
		5320	64	26T	13.48	13.13	13.43
		5500	100	26T	13.34	13.28	13.35
	2C	5600	120	26T	13.14	13.19	13.16
		5720	144	26T	12.95	13.03	13.04
20MHz BW	3	5745	149	26T	13.25	13.22	13.19
		5785	157	26T	12.97	12.97	12.82
		5825	165	26T	13.33	13.35	13.16
20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 39	RU Index: 40
					MIMO	MIMO	MIMO
20MHz BW	1	5180	36	52T	13.52	13.55	13.54
		5200	40	52T	13.21	13.24	13.22
		5240	48	52T	13.62	13.59	13.57
		5260	52	52T	13.38	13.38	13.35
	2A	5280	56	52T	13.40	13.38	13.26
		5320	64	52T	13.83	13.71	13.69
		5500	100	52T	13.92	13.59	13.90
	2C	5600	120	52T	13.53	13.51	13.54
		5720	144	52T	13.77	13.83	13.81
20MHz BW	3	5745	149	52T	13.91	13.91	13.89
		5785	157	52T	13.50	13.50	13.49
		5825	165	52T	13.55	13.51	13.54
20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 54	N/A
					MIMO	MIMO	MIMO
20MHz BW	1	5180	36	106T	17.01	17.12	
		5200	40	106T	17.04	17.04	
		5240	48	106T	17.32	17.36	
		5260	52	106T	17.38	17.30	
	2A	5280	56	106T	17.07	16.83	
		5320	64	106T	17.08	17.17	
		5500	100	106T	17.32	17.23	
	2C	5600	120	106T	17.27	17.30	
		5720	144	106T	17.14	17.26	
20MHz BW	3	5745	149	106T	17.29	17.28	
		5785	157	106T	17.26	17.17	
		5825	165	106T	17.09	17.21	
20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	N/A	N/A
					MIMO	MIMO	MIMO
20MHz BW	1	5180	36	242T	17.23		
		5200	40	242T	17.29		
		5240	48	242T	17.69		
		5260	52	242T	17.65		
	2A	5280	56	242T	17.41		
		5320	64	242T	17.86		
		5500	100	242T	17.30		
	2C	5600	120	242T	17.56		
		5720	144	242T	17.98		
20MHz BW	3	5745	149	242T	17.50		
		5785	157	242T	17.69		
		5825	165	242T	17.54		
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 8	RU Index: 17
					MIMO	MIMO	MIMO
40MHz BW	1	5190	38	26T	13.10	13.27	13.11
		5230	46	26T	13.29	13.22	13.09
		5270	54	26T	13.21	12.97	13.07
		5310	62	26T	13.34	13.30	13.17
	2A	5510	102	26T	13.46	13.31	13.45
		5590	118	26T	13.04	13.42	13.23
		5710	142	26T	13.33	12.98	13.33
	3	5755	151	26T	13.01	13.30	13.38
		5795	159	26T	13.13	12.97	13.04
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 40	RU Index: 44
					MIMO	MIMO	MIMO
40MHz BW	1	5190	38	52T	13.62	13.55	13.67
		5230	46	52T	13.52	13.68	13.52
		5270	54	52T	13.53	13.53	13.54
		5310	62	52T	13.58	13.72	13.47
	2C	5510	102	52T	13.66	13.86	13.67
		5590	118	52T	13.68	13.58	13.86
		5710	142	52T	13.70	13.69	13.47
	3	5755	151	52T	13.71	13.83	13.98
		5795	159	52T	13.64	13.69	13.51
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 54	RU Index: 56
					MIMO	MIMO	MIMO
40MHz BW	1	5190	38	106T	16.85	16.78	16.78
		5230	46	106T	17.06	17.17	16.97
		5270	54	106T	17.08	17.07	16.88
		5310	62	106T	17.28	17.03	17.09
	2C	5510	102	106T	17.29	17.32	17.05
		5590	118	106T	17.28	17.40	17.32
		5710	142	106T	17.10	17.35	17.24
	3	5755	151	106T	16.99	17.08	17.22
		5795	159	106T	17.26	17.36	17.09
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	N/A
					MIMO	MIMO	MIMO
40MHz BW	1	5190	38	242T	16.24	16.18	
		5230	46	242T	17.53	17.75	
		5270	54	242T	17.39	17.28	
		5310	62	242T	15.72	15.55	
	2C	5510	102	242T	15.27	15.29	
		5590	118	242T	17.78	17.89	
		5710	142	242T	17.78	17.80	
	3	5755	151	242T	17.54	17.79	
		5795	159	242T	17.83	17.72	
40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 65	N/A	N/A
					MIMO	MIMO	MIMO
40MHz BW	1	5190	38	484T	15.59		
		5230	46	484T	17.53		
		5270	54	484T	17.31		
		5310	62	484T	15.50		
	2C	5510	102	484T	15.37		
		5590	118	484T	17.79		
		5710	142	484T	17.91		
	3	5755	151	484T	17.49		
		5795	159	484T	17.77		

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80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
	1	5210	42	26T	13.32	13.02	13.05
	2A	5290	58	26T	13.11	12.73	12.87
	2C	5530	106	26T	13.19	13.39	13.42
		5610	122	26T	13.08	13.37	13.25
		5690	138	26T	12.97	13.26	13.19
	3	5775	155	26T	13.05	13.20	13.08
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO
	1	5210	42	52T	13.58	13.55	13.45
	2A	5290	58	52T	13.70	13.62	13.51
	2C	5530	106	52T	13.68	13.82	13.90
		5610	122	52T	13.64	13.57	13.77
		5690	138	52T	13.61	13.69	13.68
	3	5775	155	52T	13.55	13.73	13.64
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
	1	5210	42	106T	17.14	17.13	17.18
	2A	5290	58	106T	17.49	17.19	17.02
	2C	5530	106	106T	17.19	17.36	17.37
		5610	122	106T	17.07	17.20	16.92
		5690	138	106T	17.06	17.23	17.30
	3	5775	155	106T	17.07	17.16	17.10
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
	1	5210	42	242T	15.64	15.66	15.44
	2A	5290	58	242T	13.92	14.34	14.05
	2C	5530	106	242T	14.19	14.39	14.17
		5610	122	242T	17.57	17.72	17.83
		5690	138	242T	17.56	17.63	17.65
	3	5775	155	242T	17.43	17.83	17.80
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 65	RU Index: 66	N/A
					MIMO	MIMO	MIMO
	1	5210	42	484T	15.70	15.97	
	2A	5290	58	484T	13.90	14.02	
	2C	5530	106	484T	14.25	14.39	
		5610	122	484T	17.51	17.61	
		5690	138	484T	17.62	17.71	
	3	5775	155	484T	17.79	17.78	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 67	N/A	N/A
					MIMO	MIMO	MIMO
	1	5210	42	996T	15.54		
	2A	5290	58	996T	14.25		
	2C	5530	106	996T	14.25		
		5610	122	996T	17.58		
		5690	138	996T	17.53		
	3	5775	155	996T	17.60		

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