

**\* RF Exposure**

**1. Regulation**

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this Chapter.

Limits for Maximum Permissible Exposure: RF exposure is calculated.

Frequency Range	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm <sup>2</sup> ]	Averaging Time [minute]
Limits for General Population / Uncontrolled Exposure				
0.3 ~ 1.34	614	1.63	*(100)	30
1.34 ~ 30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30 ~ 300	27.5	0.073	0.2	30
300 ~ 1 500	/	/	f/1 500	30
1 500 ~ 15 000	/	/	1.0	30

f=frequency in MHz, \*= plane-wave equivalent power density

**MPE (Maximum Permissible Exposure) Prediction**

Predication of MPE limit at a given distance: Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2 \quad (\Rightarrow R = \sqrt{PG/4\pi S})$$

S = power density [mW /cm<sup>2</sup>]

P = Power input to antenna [mW]

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna [cm]

Modee	Target power [dB]	Tune up tolerance [dB]	Max tune up power [dB]	Max tune up power [mW]	Ant Gain [dBi]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2.4 GHz (WiFi_n20 MIMO)	20.00	±2	26.77	475.47	9.09	8.11	0.767 10
5.0 GHz (WiFi_n20 MIMO)	11.00	±2	17.77	59.86	9.42	8.75	0.104 17

in case of 2.4G and rf4ce work same time : 0.87127 mW/cm<sup>2</sup>

**2. RF Exposure Compliance Issue**

The information should be included in the user's manual:

This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

### 3. Calculation Result of RF Exposure

#### -WiFi 2.4 GHz Band

##### \* 802.11b\_Ant 1

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	20.45	110.92	4.26	2.67	0.058 89
2 437	20.53	112.98	4.26	2.67	0.059 98
2 462	20.36	108.64	4.26	2.67	0.057 68

##### \* 802.11b\_Ant 2

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	20.40	109.65	4.32	2.70	0.05897
2 437	20.64	115.88	4.32	2.70	0.06232
2 462	20.22	105.20	4.32	2.70	0.05658

##### \* 802.11b\_Ant 3

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	20.29	106.91	3.27	2.13	0.04520
2 437	20.14	103.28	3.27	2.13	0.04366
2 462	20.03	100.69	3.27	2.13	0.04257

**\* 802.11g\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	18.71	74.30	4.26	2.67	0.03945
2 437	18.80	75.86	4.26	2.67	0.04027
2 462	18.67	73.62	4.26	2.67	0.03909

**\* 802.11g\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	18.73	74.64	4.32	2.70	0.04014
2 437	18.68	73.79	4.32	2.70	0.03969
2 462	18.57	71.94	4.32	2.70	0.03869

**\* 802.11g\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	18.40	69.18	3.27	2.13	0.02925
2 437	18.37	68.71	3.27	2.13	0.02905
2 462	18.21	66.22	3.27	2.13	0.02800

**\* 802.11n20\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	18.47	70.31	4.26	2.67	0.03733
2 437	18.14	65.16	4.26	2.67	0.03460
2 462	18.19	65.92	4.26	2.67	0.03500

**\* 802.11 n20\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	18.12	64.86	4.32	2.70	0.03488
2 437	18.15	65.31	4.32	2.70	0.03513
2 462	18.07	64.12	4.32	2.70	0.03448

**\* 802.11 n20\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	18.23	66.53	3.27	2.13	0.02813
2 437	18.19	65.92	3.27	2.13	0.02787
2 462	18.04	63.68	3.27	2.13	0.02692

**\* 802.11n20\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	20.36	108.64	7.33	5.41	0.11685
2 437	20.39	109.40	7.33	5.41	0.11766
2 462	20.12	102.80	7.33	5.41	0.11057

**\* 802.11n20\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	20.23	105.44	7.33	5.41	0.11340
2 437	20.05	101.16	7.33	5.41	0.10880
2 462	20.01	100.23	7.33	5.41	0.10780

**\* 802.11n20\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	20.40	109.65	7.33	5.41	0.11793
2 437	20.36	108.64	7.33	5.41	0.11685
2 462	20.14	103.28	7.33	5.41	0.11108

**\* 802.11n20\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 412	21.81	151.71	9.09	8.11	0.24475
2 437	21.79	151.01	9.09	8.11	0.24363
2 462	21.68	147.23	9.09	8.11	0.23754

**\* 802.11n40\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 422	16.70	46.77	4.26	2.67	0.02483
2 437	16.61	45.81	4.26	2.67	0.02432
2 462	16.53	44.98	4.26	2.67	0.02388

**\* 802.11 n40\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 422	16.59	45.60	4.26	2.67	0.024 21
2 437	16.69	46.67	4.26	2.67	0.024 78
2 462	16.56	45.29	4.26	2.67	0.024 05

**\* 802.11 n40\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 422	16.34	43.05	3.27	2.13	0.01820
2 437	16.42	43.85	3.27	2.13	0.01854
2 462	16.27	42.36	3.27	2.13	0.01791

**\* 802.11n40\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 422	18.60	72.44	7.33	5.41	0.07792
2 437	18.51	70.96	7.33	5.41	0.07632
2 462	18.40	69.18	7.33	5.41	0.07441

**\* 802.11 n40\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 422	18.52	71.12	7.33	5.41	0.07649
2 437	18.69	73.96	7.33	5.41	0.07955
2 462	18.63	72.95	7.33	5.41	0.07846

**\* 802.11 n40\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 422	18.62	72.78	7.33	5.41	0.07828
2 437	18.55	71.61	7.33	5.41	0.07702
2 462	18.49	70.63	7.33	5.41	0.07597

**\* 802.11 n40\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
2 422	19.22	83.56	9.09	8.11	0.13481
2 437	19.20	83.18	9.09	8.11	0.13419
2 462	19.15	82.22	9.09	8.11	0.13266

-WiFi 5 GHz Band 1

\* 802.11a\_Ant 1

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	15.30	33.88	4.65	2.92	0.01966
5 200	15.26	33.57	4.65	2.92	0.01948
5 240	15.23	33.34	4.65	2.92	0.01934

\* 802.11a\_Ant 2

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5180	15.31	33.96	4.44	2.78	0.01879
5200	15.27	33.65	4.44	2.78	0.01861
5240	15.16	32.81	4.44	2.78	0.01815

\* 802.11a\_Ant 3

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	15.37	34.43	4.49	2.81	0.01925
5 200	15.35	34.28	4.49	2.81	0.01917
5 240	15.24	33.42	4.49	2.81	0.01869



**\* 802.11an20\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	15.41	34.75	4.65	2.92	0.02016
5 200	15.37	34.43	4.65	2.92	0.01998
5 240	15.32	34.04	4.65	2.92	0.01975

**\* 802.11an20\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	15.57	36.06	4.44	2.78	0.01994
5 200	15.52	35.65	4.44	2.78	0.01972
5 240	15.44	34.99	4.44	2.78	0.01936

**\* 802.11an20\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	15.31	33.96	4.49	2.81	0.01899
5 200	15.24	33.42	4.49	2.81	0.01869
5 240	15.05	31.99	4.49	2.81	0.01789

**\* 802.11n20\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	14.89	30.83	7.66	5.83	0.03577
5 200	14.98	31.48	7.66	5.83	0.03652
5 240	14.82	30.34	7.66	5.83	0.03520

**\* 802.11 n20\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	14.96	31.33	7.66	5.83	0.03635
5 200	14.92	31.05	7.66	5.83	0.03602
5 240	14.96	31.33	7.66	5.83	0.03635

**\* 802.11 n20\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	14.89	30.83	7.66	5.83	0.03577
5 200	15.05	31.99	7.66	5.83	0.03711
5 240	14.94	31.19	7.66	5.83	0.03619

**\* 802.11 n20\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	18.38	68.87	9.42	8.75	0.11985
5 200	18.31	67.76	9.42	8.75	0.11793
5 240	18.23	66.53	9.42	8.75	0.11578

**\* 802.11an40\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	15.07	32.14	4.65	2.92	0.01864
5 230	14.85	30.55	4.65	2.92	0.01772

**\* 802.11an40\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	16.06	40.36	4.44	2.78	0.02233
5 230	15.80	38.02	4.44	2.78	0.02103

**\* 802.11an40\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	15.79	37.93	4.49	2.81	0.02121
5 230	15.74	37.50	4.49	2.81	0.02097

**\* 802.11n40\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	14.76	29.92	7.66	5.83	0.03472
5 230	15.04	31.92	7.66	5.83	0.03703

**\* 802.11 n40\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	15.06	32.06	7.66	5.83	0.03720
5 230	15.08	32.21	7.66	5.83	0.03737

**\* 802.11 n40\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	14.97	31.41	7.66	5.83	0.03644
5 230	14.95	31.26	7.66	5.83	0.03627

**\* 802.11 n40\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	18.23	66.53	9.42	8.75	0.11578
5 230	18.06	63.97	9.42	8.75	0.11133

**\* 802.11ac20\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	14.95	31.26	4.65	2.92	0.01814
5 200	14.97	31.41	4.65	2.92	0.01822
5 240	15.00	31.62	4.65	2.92	0.01835

**\* 802.11ac20\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	16.44	44.06	4.44	2.78	0.02437
5 200	16.39	43.55	4.44	2.78	0.02409
5 240	16.14	41.11	4.44	2.78	0.02274

**\* 802.11ac20\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	16.14	41.11	4.49	2.81	0.02299
5 200	16.29	42.56	4.49	2.81	0.02380
5 240	16.01	39.90	4.49	2.81	0.02231

**\* 802.11ac20\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	13.73	23.60	7.66	5.83	0.02739
5 200	14.13	25.88	7.66	5.83	0.03003
5 240	13.91	24.60	7.66	5.83	0.02855

**\* 802.11ac20\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	14.10	25.70	7.66	5.83	0.02982
5 200	14.03	25.29	7.66	5.83	0.02934
5 240	14.03	25.29	7.66	5.83	0.02934

**\* 802.11ac20\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	14.08	25.59	7.66	5.83	0.02968
5 200	14.15	26.00	7.66	5.83	0.03017
5 240	14.17	26.12	7.66	5.83	0.03031

**\* 802.11ac20\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 180	15.64	36.64	9.42	8.75	0.06377
5 200	15.60	36.31	9.42	8.75	0.06319
5 240	15.54	35.81	9.42	8.75	0.06232

**\* 802.11ac40\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	15.91	38.99	4.65	2.92	0.02262
5 230	16.00	39.81	4.65	2.92	0.02310

**\* 802.11ac40\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	17.29	53.58	4.44	2.78	0.02964
5 230	17.19	52.36	4.44	2.78	0.02896

**\* 802.11ac40\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	17.00	50.12	4.49	2.81	0.02802
5 230	16.77	47.53	4.49	2.81	0.02658

**\* 802.11ac40\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	13.48	22.28	7.66	5.83	0.02585
5 230	13.71	23.50	7.66	5.83	0.02726

**\* 802.11ac40\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	15.24	33.42	7.66	5.83	0.03877
5 230	15.13	32.58	7.66	5.83	0.03780

**\* 802.11ac40\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	15.10	32.36	7.66	5.83	0.03754
5 230	15.05	31.99	7.66	5.83	0.03711

**\* 802.11ac40\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 190	16.56	45.29	9.42	8.75	0.07882
5 230	16.50	44.67	9.42	8.75	0.07774



**\* 802.11ac80\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 210	12.89	19.45	4.65	2.92	0.01129

**\* 802.11ac80\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 210	14.11	25.76	4.44	2.78	0.01425

**\* 802.11ac80\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 210	14.11	25.76	4.49	2.81	0.01441

**\* 802.11ac80\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 210	13.37	21.73	7.66	5.83	0.02521

**\* 802.11ac80\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 210	13.33	21.53	7.66	5.83	0.02498

**\* 802.11ac80\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 210	13.49	22.34	7.66	5.83	0.02591

**\* 802.11ac80\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 210	15.80	38.02	9.42	8.75	0.06617

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\* 802.11a\_Ant 1

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.54	35.81	3.60	2.29	0.01631
5 785	15.60	36.31	3.60	2.29	0.01653
5 825	15.74	37.50	3.60	2.29	0.01707

\* 802.11a\_Ant 2

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.58	36.14	4.64	2.91	0.02093
5 785	15.54	35.81	4.64	2.91	0.02074
5 825	15.82	38.19	4.64	2.91	0.02212

\* 802.11a\_Ant 3

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.59	36.22	4.25	2.66	0.01918
5 785	15.69	37.07	4.25	2.66	0.01963
5 825	15.83	38.28	4.25	2.66	0.02027

**\* 802.11an20\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.48	35.32	3.60	2.29	0.01608
5 785	15.56	35.97	3.60	2.29	0.01638
5 825	15.76	37.67	3.60	2.29	0.01715

**\* 802.11an20\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.68	36.98	4.64	2.91	0.02142
5 785	15.64	36.64	4.64	2.91	0.02122
5 825	15.68	36.98	4.64	2.91	0.02142

**\* 802.11an20\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.37	34.43	4.25	2.66	0.01824
5 785	15.48	35.32	4.25	2.66	0.01870
5 825	15.59	36.22	4.25	2.66	0.01918

**\* 802.11n20\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.56	35.97	7.66	5.83	0.04174
5 785	15.79	37.93	7.66	5.83	0.04401
5 825	15.99	39.72	7.66	5.83	0.04608

**\* 802.11 n20\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.84	38.37	7.66	5.83	0.04452
5 785	15.83	38.28	7.66	5.83	0.04442
5 825	15.67	36.90	7.66	5.83	0.04281

**\* 802.11 n20\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.54	35.81	7.66	5.83	0.04155
5 785	15.66	36.81	7.66	5.83	0.04271
5 825	15.82	38.19	7.66	5.83	0.04431

**\* 802.11 n20\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.70	37.15	9.41	8.73	0.06453
5 785	15.71	37.24	9.41	8.73	0.06467
5 825	15.86	38.55	9.41	8.73	0.06695

**\* 802.11an40\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	11.35	13.65	3.60	2.29	0.00621
5 795	11.61	14.49	3.60	2.29	0.00660

**\* 802.11an40\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	11.58	14.39	4.64	2.91	0.00833
5 795	11.63	14.55	4.64	2.91	0.00843

**\* 802.11an40\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	11.35	13.65	4.25	2.66	0.00723
5 795	11.70	14.79	4.25	2.66	0.00783

**\* 802.11n40\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	11.27	13.40	7.66	5.83	0.01554
5 795	11.51	14.16	7.66	5.83	0.01643

**\* 802.11 n40\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	11.15	13.03	7.66	5.83	0.01512
5 795	11.53	14.22	7.66	5.83	0.01650

**\* 802.11 n40\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	11.30	13.49	7.66	5.83	0.01565
5 795	11.30	13.49	7.66	5.83	0.01565

**\* 802.11 n40\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	13.48	22.28	9.41	8.73	0.03870
5 795	13.57	22.75	9.41	8.73	0.03951

**\* 802.11ac20\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	14.47	27.99	3.60	2.29	0.01274
5 785	14.63	29.04	3.60	2.29	0.01322
5 825	14.71	29.58	3.60	2.29	0.01347

**\* 802.11ac20\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	14.71	29.58	4.64	2.91	0.01713
5 785	14.77	29.99	4.64	2.91	0.01737
5 825	14.69	29.44	4.64	2.91	0.01705

**\* 802.11ac20\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	14.16	26.06	4.25	2.66	0.01380
5 785	14.29	26.85	4.25	2.66	0.01422
5 825	14.70	29.51	4.25	2.66	0.01563

**\* 802.11ac20\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	14.55	28.51	7.66	5.83	0.03308
5 785	15.02	31.77	7.66	5.83	0.03686
5 825	15.08	32.21	7.66	5.83	0.03737

**\* 802.11ac20\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	14.76	29.92	7.66	5.83	0.03472
5 785	14.98	31.48	7.66	5.83	0.03652
5 825	15.12	32.51	7.66	5.83	0.03772

**\* 802.11ac20\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	14.82	30.34	7.66	5.83	0.03520
5 785	14.74	29.79	7.66	5.83	0.03456
5 825	14.92	31.05	7.66	5.83	0.03602

**\* 802.11ac20\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 745	15.04	31.92	9.41	8.73	0.05543
5 785	14.99	31.55	9.41	8.73	0.05479
5 825	14.98	31.48	9.41	8.73	0.05467



**\* 802.11ac40\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	12.13	16.33	3.60	2.29	0.00744
5 795	12.34	17.14	3.60	2.29	0.00780

**\* 802.11ac40\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	12.58	18.11	4.64	2.91	0.01049
5 795	12.63	18.32	4.64	2.91	0.01061

**\* 802.11ac40\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	12.14	16.37	4.25	2.66	0.00867
5 795	12.48	17.70	4.25	2.66	0.00937

**\* 802.11ac40\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	12.15	16.41	7.66	5.83	0.01903
5 795	12.53	17.91	7.66	5.83	0.02077

**\* 802.11ac40\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	12.48	17.70	7.66	5.83	0.02054
5 795	12.70	18.62	7.66	5.83	0.02160

**\* 802.11ac40\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	12.27	16.87	7.66	5.83	0.01957
5 795	12.54	17.95	7.66	5.83	0.02082

**\* 802.11ac40\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 755	13.27	21.23	9.41	8.73	0.03687
5 795	13.87	24.38	9.41	8.73	0.04234

**\* 802.11ac80\_Ant 1**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 775	11.35	13.65	3.60	2.29	0.00621

**\* 802.11ac80\_Ant 2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 775	11.84	15.28	4.64	2.91	0.00885

**\* 802.11ac80\_Ant 3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 775	11.22	13.24	4.25	2.66	0.00701

**\* 802.11ac80\_Ant 1+2**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 775	9.57	9.06	7.66	5.83	0.01051

**\* 802.11ac80\_Ant 2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 775	10.74	11.86	7.66	5.83	0.01376

**\* 802.11ac80\_Ant 1+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 775	9.63	9.18	7.66	5.83	0.01065

**\* 802.11ac80\_Ant 1+2+3**

Frequency [MHz]	Power [dBm]	Power [mW]	Ant Gain [dBm]	Ant Gain [mW]	Power Density at 20 cm [mW/cm <sup>2</sup> ]
5 775	13.68	23.33	9.41	8.73	0.04053