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Maximum Permissive Exposure

FCC ID: 2AU3BU9W35
 Product Name: WiFi module
 M/N: U9W35

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation

GT Technology Chongqing Limited declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

2.1. Estimation Result

WiFi 2.4GHz (SISO):

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB
11b (DTS)	2412	15.74	17.38	37.50	54.70	-1.04	-2.8	0.79	0.52	0.00587	0.00571
	2437	16.08	17.75	40.55	59.57	-1.04	-2.8	0.79	0.52	0.00635	0.00622
	2462	16.02	17.63	39.99	57.94	-1.04	-2.8	0.79	0.52	0.00627	0.00605
11g (DTS)	2412	17.06	18.20	50.82	66.07	-1.04	-2.8	0.79	0.52	0.00796	0.00690
	2437	17.12	18.15	51.52	65.31	-1.04	-2.8	0.79	0.52	0.00807	0.00682
	2462	17.16	18.25	52.00	66.83	-1.04	-2.8	0.79	0.52	0.00815	0.00698
11n HT20 (DTS)	2412	16.14	16.54	41.11	45.08	-1.04	-2.8	0.79	0.52	0.00644	0.00471
	2437	16.12	16.53	40.93	44.98	-1.04	-2.8	0.79	0.52	0.00641	0.00470
	2462	16.32	16.51	42.85	44.77	-1.04	-2.8	0.79	0.52	0.00671	0.00468
11n HT40 (DTS)	2422	16.01	16.4	39.90	43.65	-1.04	-2.8	0.79	0.52	0.00625	0.00456
	2437	16.10	16.37	40.74	43.35	-1.04	-2.8	0.79	0.52	0.00638	0.00453
	2452	16.14	16.52	41.11	44.87	-1.04	-2.8	0.79	0.52	0.00644	0.00469

WiFi 2.4GHz (MIMO):

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)		
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	Total
11n HT20 (DTS)	2412	14.87	17.48	30.69	55.98	-1.04	-2.8	0.79	0.52	0.00481	0.00585	0.01066
	2437	14.97	17.54	31.41	56.75	-1.04	-2.8	0.79	0.52	0.00492	0.00593	0.01085
	2462	15.05	17.57	31.99	57.15	-1.04	-2.8	0.79	0.52	0.00501	0.00597	0.01098
11n HT40 (DTS)	2422	14.44	16.96	27.80	49.66	-1.04	-2.8	0.79	0.52	0.00435	0.00519	0.00954
	2437	14.54	17.06	28.44	50.82	-1.04	-2.8	0.79	0.52	0.00446	0.00531	0.00977
	2452	14.62	17.02	28.97	50.35	-1.04	-2.8	0.79	0.52	0.00454	0.00526	0.00980



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WiFi 5GHz (SISO):

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB
11a (U-NII-1)	5180	14.28	15.48	26.79	35.32	1.42	-4.67	1.39	0.34	0.00740	0.00240
	5200	14.37	15.3	27.35	33.88	1.42	-4.67	1.39	0.34	0.00755	0.00230
	5240	14.87	15.71	30.69	37.24	1.42	-4.67	1.39	0.34	0.00847	0.00253
11n HT20 (U-NII-1)	5180	14.85	15.35	30.55	34.28	1.42	-4.67	1.39	0.34	0.00843	0.00233
	5200	14.73	15.14	29.72	32.66	1.42	-4.67	1.39	0.34	0.00820	0.00222
	5240	15.12	15.50	32.51	35.48	1.42	-4.67	1.39	0.34	0.00897	0.00241
11n HT40 (U-NII-1)	5190	15.00	15.32	31.62	34.04	1.42	-4.67	1.39	0.34	0.00873	0.00231
	5230	15.26	15.46	33.57	35.16	1.42	-4.67	1.39	0.34	0.00927	0.00239

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB
11a (U-NII-2A)	5260	14.93	15.82	31.12	38.19	-4.34	-0.16	0.37	0.96	0.00228	0.00733
	5300	14.97	15.85	31.41	38.46	-4.34	-0.16	0.37	0.96	0.00230	0.00738
	5320	14.85	15.96	30.55	39.45	-4.34	-0.16	0.37	0.96	0.00224	0.00757
11n HT20 (U-NII-2A)	5260	14.77	15.21	29.99	33.19	-4.34	-0.16	0.37	0.96	0.00220	0.00637
	5300	14.85	15.24	30.55	33.42	-4.34	-0.16	0.37	0.96	0.00224	0.00641
	5320	14.85	15.33	30.55	34.12	-4.34	-0.16	0.37	0.96	0.00224	0.00655
11n HT40 (U-NII-2A)	5270	14.87	15.26	30.69	33.57	-4.34	-0.16	0.37	0.96	0.00225	0.00644
	5310	14.88	15.26	30.76	33.57	-4.34	-0.16	0.37	0.96	0.00225	0.00644

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB
11a (U-NII-2C)	5500	14.5	15.96	28.18	39.45	-4.03	0.09	0.40	1.02	0.00222	0.00802
	5600	14.06	15.76	25.47	37.67	-4.03	0.09	0.40	1.02	0.00200	0.00766
	5700	14.56	15.93	28.58	39.17	-4.03	0.09	0.40	1.02	0.00225	0.00796
11n HT20 (U-NII-2C)	5500	14.84	15.35	30.48	34.28	-4.03	0.09	0.40	1.02	0.00240	0.00697
	5600	14.58	15.02	28.71	31.77	-4.03	0.09	0.40	1.02	0.00226	0.00646
	5700	14.92	15.07	31.05	32.14	-4.03	0.09	0.40	1.02	0.00244	0.00653
11n HT40 (U-NII-2C)	5510	14.67	15.12	29.31	32.51	-4.03	0.09	0.40	1.02	0.00231	0.00661
	5590	14.72	15.17	29.65	32.89	-4.03	0.09	0.40	1.02	0.00233	0.00668
	5670	14.83	14.99	30.41	31.55	-4.03	0.09	0.40	1.02	0.00239	0.00641



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Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB
11a (U-NII-3)	5745	15.40	16.12	34.67	40.93	0.98	-4.36	1.25	0.37	0.00865	0.00299
	5785	15.32	16.00	34.04	39.81	0.98	-4.36	1.25	0.37	0.00849	0.00290
	5825	15.47	16.00	35.24	39.81	0.98	-4.36	1.25	0.37	0.00879	0.00290
11n HT20 (U-NII-3)	5745	15.24	15.36	33.42	34.36	0.98	-4.36	1.25	0.37	0.00834	0.00251
	5785	15.25	15.26	33.50	33.57	0.98	-4.36	1.25	0.37	0.00836	0.00245
	5825	15.25	15.10	33.50	32.36	0.98	-4.36	1.25	0.37	0.00836	0.00236
11n HT40 (U-NII-3)	5755	15.41	15.28	34.75	33.73	0.98	-4.36	1.25	0.37	0.00867	0.00246
	5795	15.37	15.4	34.43	34.67	0.98	-4.36	1.25	0.37	0.00859	0.00253

WiFi 5GHz (MIMO):

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)		
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	Total
11n HT20 (U-NII-1)	5180	13.63	15.35	23.07	34.28	1.42	-4.67	1.39	0.34	0.00637	0.00233	0.00870
	5200	13.23	15.14	21.04	32.66	1.42	-4.67	1.39	0.34	0.00581	0.00222	0.00803
	5240	13.78	15.5	23.88	35.48	1.42	-4.67	1.39	0.34	0.00659	0.00241	0.00900
11n HT40 (U-NII-1)	5190	13.36	15.32	21.68	34.04	1.42	-4.67	1.39	0.34	0.00598	0.00231	0.00829
	5230	13.71	15.46	23.50	35.16	1.42	-4.67	1.39	0.34	0.00649	0.00239	0.00888



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		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	Total
11n HT20 (U-NII-2A)	5260	13.91	15.55	24.60	35.89	-4.34	-0.16	0.37	0.96	0.00180	0.00689	0.00869
	5300	13.83	15.74	24.15	37.50	-4.34	-0.16	0.37	0.96	0.00177	0.00719	0.00896
	5320	14.11	15.85	25.76	38.46	-4.34	-0.16	0.37	0.96	0.00189	0.00738	0.00927
11n HT40 (U-NII-2A)	5270	14.00	15.61	25.12	36.39	-4.34	-0.16	0.37	0.96	0.00184	0.00698	0.00882
	5310	13.91	15.70	24.60	37.15	-4.34	-0.16	0.37	0.96	0.00180	0.00713	0.00893

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)		
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	Total
11n HT20 (U-NII-2C)	5500	14.4	15.78	27.54	37.84	-4.03	0.09	0.40	1.02	0.00217	0.00769	0.00986
	5600	13.89	15.7	24.49	37.15	-4.03	0.09	0.40	1.02	0.00193	0.00755	0.00948
	5700	14.34	15.77	27.16	37.76	-4.03	0.09	0.40	1.02	0.00214	0.00767	0.00981
11n HT40 (U-NII-2C)	5510	14.07	15.59	25.53	36.22	-4.03	0.09	0.40	1.02	0.00201	0.00736	0.00937
	5590	14.01	15.71	25.18	37.24	-4.03	0.09	0.40	1.02	0.00198	0.00757	0.00955
	5670	14.17	15.62	26.12	36.48	-4.03	0.09	0.40	1.02	0.00206	0.00741	0.00947

Mode	Frequency (MHz)	PK Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)		
		ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	ANTA	ANTB	Total
11n HT20 (U-NII-3)	5745	15.24	15.92	33.42	39.08	0.98	-4.36	1.25	0.37	0.00834	0.00285	0.01119
	5785	15.25	15.92	33.50	39.08	0.98	-4.36	1.25	0.37	0.00836	0.00285	0.01121
	5825	15.25	15.87	33.50	38.64	0.98	-4.36	1.25	0.37	0.00836	0.00282	0.01118
11n HT40 (U-NII-3)	5755	15.41	15.95	34.75	39.36	0.98	-4.36	1.25	0.37	0.00867	0.00287	0.01154
	5795	15.37	16	34.43	39.81	0.98	-4.36	1.25	0.37	0.00859	0.00290	0.01149

Based on safety distance (r) **20cm**, the antenna gain (G) is **ANTA: 1.25 Numerical, ANTB: 0.37 Numerical**, and the highest power output (P) is **ANTA: 34.43mW, ANTB: 39.81mW**, the power density (S) is **0.01149mW/cm²**.