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Maximum Permissive Exposure

FCC ID: 2AU3BU9W34
EUT: WiFi module
Model No.: U9W34

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



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2. MPE Calculation

Funai Electric R & D (Shenzhen) Co., Ltd. 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

DTS Band MPE:

Mode	Frequency (MHz)	Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		Ant A	Ant B	Ant A	Ant B	Ant A	Ant B	Ant A	Ant B	Ant A	Ant B
11b	2412	11.62	12.20	14.52	16.60	2.55	0.94	1.80	1.24	0.00520	0.00410
	2437	11.43	11.96	13.90	15.70	2.55	0.94	1.80	1.24	0.00498	0.00388
	2462	11.33	11.77	13.58	15.03	2.55	0.94	1.80	1.24	0.00486	0.00371
11g	2412	14.61	15.17	28.91	32.89	2.55	0.94	1.80	1.24	0.01035	0.00813
	2437	15.48	15.87	35.32	38.64	2.55	0.94	1.80	1.24	0.01265	0.00955
	2462	14.94	15.31	31.19	33.96	2.55	0.94	1.80	1.24	0.01117	0.00839
11n HT20	2412	14.59	15.19	28.77	33.04	2.55	0.94	1.80	1.24	0.01030	0.00816
	2437	15.40	15.92	34.67	39.08	2.55	0.94	1.80	1.24	0.01242	0.00966
	2462	14.87	15.35	30.69	34.28	2.55	0.94	1.80	1.24	0.01099	0.00847
11n HT40	2422	13.84	14.36	24.21	27.29	2.55	0.94	1.80	1.24	0.00867	0.00674
	2437	14.12	14.62	25.82	28.97	2.55	0.94	1.80	1.24	0.00925	0.00716
	2452	13.68	14.13	23.33	25.88	2.55	0.94	1.80	1.24	0.00836	0.00640



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U-NII-1 Band MPE:

Mode	Frequency (MHz)	Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		Ant A	Ant B	Ant A	Ant B	Ant A	Ant B	Ant A	Ant B	Ant A	Ant B
11a	5180	13.10	12.23	20.42	16.71	1.90	0.8	1.55	1.20	0.00629	0.00400
	5200	12.86	12.34	19.32	17.14	1.90	0.8	1.55	1.20	0.00596	0.00410
	5240	13.22	13.51	20.99	22.44	1.90	0.8	1.55	1.20	0.00647	0.00537
11n HT20	5180	12.58	12.56	18.11	18.03	1.90	0.8	1.55	1.20	0.00558	0.00431
	5200	12.41	12.94	17.42	19.68	1.90	0.8	1.55	1.20	0.00537	0.00471
	5240	13.11	12.99	20.46	19.91	1.90	0.8	1.55	1.20	0.00631	0.00476
11n HT40	5190	13.41	12.29	21.93	16.94	1.90	0.8	1.55	1.20	0.00676	0.00405
	5230	13.26	12.74	21.18	18.79	1.90	0.8	1.55	1.20	0.00653	0.00450
11ac VHT20	5180	12.12	12.47	16.29	17.66	1.90	0.8	1.55	1.20	0.00502	0.00423
	5200	12.37	12.59	17.26	18.16	1.90	0.8	1.55	1.20	0.00532	0.00434
	5240	12.89	12.19	19.45	16.56	1.90	0.8	1.55	1.20	0.00600	0.00396
11ac VHT40	5190	13.52	13.48	22.49	22.28	1.90	0.8	1.55	1.20	0.00693	0.00533
	5230	13.19	12.57	20.84	18.07	1.90	0.8	1.55	1.20	0.00643	0.00432
11ac VHT80	5210	12.89	13.23	19.45	21.04	1.90	0.8	1.55	1.20	0.00600	0.00503



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U-NII-3 Band MPE:

Mode	Frequency (MHz)	Output power (dBm)		Output power (mW)		antenna Gain (dBi)		antenna Gain (linear)		MPE (mW/cm ²)	
		Ant A	Ant B	Ant A	Ant B	Ant A	Ant B	Ant A	Ant B	Ant A	Ant B
11a	5745	12.78	13.18	18.97	20.80	-0.04	-3.17	0.99	0.48	0.00374	0.00200
	5785	13.09	12.92	20.37	19.59	-0.04	-3.17	0.99	0.48	0.00402	0.00188
	5825	13.07	13.01	20.28	20.00	-0.04	-3.17	0.99	0.48	0.00400	0.00192
11n HT20	5745	12.64	12.53	18.37	17.91	-0.04	-3.17	0.99	0.48	0.00362	0.00172
	5785	13.11	12.93	20.46	19.63	-0.04	-3.17	0.99	0.48	0.00404	0.00188
	5825	12.72	13.05	18.71	20.18	-0.04	-3.17	0.99	0.48	0.00369	0.00194
11n HT40	5755	13.26	13.65	21.18	23.17	-0.04	-3.17	0.99	0.48	0.00418	0.00222
	5795	13.02	13.24	20.04	21.09	-0.04	-3.17	0.99	0.48	0.00395	0.00202
11ac VHT20	5745	12.45	12.23	17.58	16.71	-0.04	-3.17	0.99	0.48	0.00347	0.00160
	5785	12.54	12.72	17.95	18.71	-0.04	-3.17	0.99	0.48	0.00354	0.00179
	5825	12.75	12.31	18.84	17.02	-0.04	-3.17	0.99	0.48	0.00371	0.00163
11ac VHT40	5755	13.38	13.62	21.78	23.01	-0.04	-3.17	0.99	0.48	0.00429	0.00221
	5795	13.43	13.32	22.03	21.48	-0.04	-3.17	0.99	0.48	0.00434	0.00206
11ac VHT80	5775	12.79	12.40	19.01	17.38	-0.04	-3.17	0.99	0.48	0.00375	0.00167

Based on **safety** distance (r) **20cm**, the antenna gain (G) is **1.80 Numerical**, and the highest power output (P) is **35.32mW**, the power density (S) is **0.01265mW/cm²**.