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Maximum Permissive Exposure

FCC ID: Y9E-IAD-18010H
EUT: Room Booking Panel
M/N: IAD-18010H

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

IAdea Corporation 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

Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11b	2412	10.76	11.91	2.3	1.70	0.0040
	2437	11.19	13.15	2.3	1.70	0.0044
	2462	11.47	14.03	2.3	1.70	0.0047
11g	2412	11.45	13.96	2.3	1.70	0.0047
	2437	11.88	15.42	2.3	1.70	0.0052
	2462	12.04	16.00	2.3	1.70	0.0054
11n HT20	2412	12.17	16.48	2.3	1.70	0.0056
	2437	12.53	17.91	2.3	1.70	0.0061
	2462	12.74	18.79	2.3	1.70	0.0064

UNII-1

Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5180	11.01	12.62	3.5	2.24	0.0056
	5200	10.70	11.75	3.5	2.24	0.0052
	5240	11.05	12.74	3.5	2.24	0.0057
11n HT20	5180	10.66	11.64	3.5	2.24	0.0052
	5200	10.50	11.22	3.5	2.24	0.0050
	5240	10.67	11.67	3.5	2.24	0.0052
11n HT40	5190	10.42	11.02	3.5	2.24	0.0049
	5230	10.40	10.96	3.5	2.24	0.0049
11ac VHT20	5180	10.47	11.14	3.5	2.24	0.0050
	5200	10.49	11.19	3.5	2.24	0.0050
	5240	10.66	11.64	3.5	2.24	0.0052
11ac VHT40	5190	10.44	11.07	3.5	2.24	0.0049
	5230	10.42	11.02	3.5	2.24	0.0049
11ac VHT80	5210	9.9	9.77	3.5	2.24	0.0044



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UNII-3

Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5745	10.59	11.46	5.1	3.24	0.0074
	5785	10.46	11.12	5.1	3.24	0.0072
	5825	10.57	11.40	5.1	3.24	0.0073
11n HT20	5745	10.08	10.19	5.1	3.24	0.0066
	5785	10.10	10.23	5.1	3.24	0.0066
	5825	10.07	10.16	5.1	3.24	0.0065
11n HT40	5755	10.21	10.50	5.1	3.24	0.0068
	5795	10.15	10.35	5.1	3.24	0.0067
11ac VHT20	5745	10.30	10.72	5.1	3.24	0.0069
	5785	10.03	10.07	5.1	3.24	0.0065
	5825	10.01	10.02	5.1	3.24	0.0065
11ac VHT40	5755	10.20	10.47	5.1	3.24	0.0067
	5795	10.14	10.33	5.1	3.24	0.0067
11ac VHT80	5775	9.77	9.48	5.1	3.24	0.0061

Based on safety distance (r) **20cm**, the antenna gain (G) is **3.24 Numerical**, and the highest power output (P) is **11.46mW**, the power density (S) is **0.0074mW/cm²**.