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## Maximum Permissive Exposure

FCC ID: 2ADQY525404-300N  
EUT: 300N Access Point  
M/N: 525404-300N

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 <sup>2</sup> )	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

**Sony 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

Test Mode	Frequency ( MHz )	Peak Output Power (dBm)		Peak Output Power (mW)		Antenna Gain (dBi)		Antenna Gain (Linear)		MPE		
		Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Total
11b	2412	16.77	16.62	47.53	45.92	5	5	3.16	3.16	0.0299	0.0289	N/A
	2437	17.33	16.62	54.08	45.92	5	5	3.16	3.16	0.0340	0.0289	N/A
	2462	17.24	16.83	52.97	48.19	5	5	3.16	3.16	0.0333	0.0303	N/A
11g	2412	14.51	14.19	28.25	26.24	5	5	3.16	3.16	0.0178	0.0165	N/A
	2437	14.77	14.14	29.99	25.94	5	5	3.16	3.16	0.0189	0.0163	N/A
	2462	15.37	14.74	34.43	29.79	5	5	3.16	3.16	0.0217	0.0187	N/A
11n HT20	2412	7.42	7.74	5.52	5.94	5	5	3.16	3.16	0.0035	0.0037	0.0072
	2437	7.25	7.01	5.31	5.02	5	5	3.16	3.16	0.0033	0.0032	0.0065
	2462	7.23	7.62	5.28	5.78	5	5	3.16	3.16	0.0033	0.0036	0.0069
11n HT40	2422	6.60	6.20	4.57	4.17	5	5	3.16	3.16	0.0029	0.0026	0.0055
	2437	6.45	6.56	4.42	4.53	5	5	3.16	3.16	0.0028	0.0029	0.0057
	2452	6.48	6.60	4.45	4.57	5	5	3.16	3.16	0.0028	0.0029	0.0057

Based on safety distance (r) **20cm**, the power density (S) is **0.0340mW/cm<sup>2</sup>**.