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Maximum Permissible Exposure

FCC ID: 2AUGG-G307001
EUT: Color Monitor
M/N: G307-001

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

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

Mode	CH	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
GFSK (DSS)	CH0	2402	4.894	3.09	2.73	1.87	0.0012
	CH39	2441	4.889	3.08	2.73	1.87	0.0012
	CH78	2480	3.640	2.31	2.73	1.87	0.0009
8-DPSK (DSS)	CH0	2402	6.194	4.16	2.73	1.87	0.0016
	CH39	2441	4.562	2.86	2.73	1.87	0.0011
	CH78	2480	6.732	4.71	2.73	1.87	0.0018
GFSK (DTS)	CH0	2402	4.178	2.62	2.73	1.87	0.0010
	CH19	2440	4.082	2.56	2.73	1.87	0.0010
	CH39	2480	4.141	2.59	2.73	1.87	0.0010
11b	CH1	2412	15.05	31.99	2.73	1.87	0.0119
	CH6	2437	15.21	33.19	2.73	1.87	0.0124
	CH11	2462	15.50	35.48	2.73	1.87	0.0132
11g	CH1	2412	11.04	12.71	2.73	1.87	0.0047
	CH6	2437	13.42	21.98	2.73	1.87	0.0082
	CH11	2462	11.97	15.74	2.73	1.87	0.0059
11n HT20	CH1	2412	10.88	12.25	2.73	1.87	0.0046
	CH6	2437	13.34	21.58	2.73	1.87	0.0081
	CH11	2462	11.37	13.71	2.73	1.87	0.0051
11n HT40	CH3	2422	10.30	10.72	2.73	1.87	0.0040
	CH6	2437	10.08	10.19	2.73	1.87	0.0038
	CH9	2452	10.19	10.45	2.73	1.87	0.0039

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.87 Numerical**, and the highest power output (P) is **35.48mW**, the power density (S) is **0.0132mW/cm²**.