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Maximum Permissive Exposure

FCC ID: Y9E-IAD16005E
EUT: Digital Signage Media Appliance
M/N: IAD-16005E

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	2102	12.32	17.06	1.79	1.51	0.0051
	2442	12.65	18.41	1.79	1.51	0.0055
	2462	13.21	20.94	1.79	1.51	0.0063
11g	2102	10.06	10.14	1.79	1.51	0.0030
	2442	10.34	10.81	1.79	1.51	0.0033
	2462	10.87	12.22	1.79	1.51	0.0037
11n HT20	2102	11.26	13.37	1.79	1.51	0.0040
	2442	11.70	14.79	1.79	1.51	0.0044
	2462	12.16	16.44	1.79	1.51	0.0049

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Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5180	12.79	19.01	4.44	2.78	0.0105
	5200	12.21	16.63	4.44	2.78	0.0092
	5240	12.25	16.79	4.44	2.78	0.0093
11n HT20	5180	12.37	17.26	4.44	2.78	0.0095
	5200	11.74	14.93	4.44	2.78	0.0083
	5240	11.78	15.07	4.44	2.78	0.0083
11n HT40	5190	10.29	10.69	4.44	2.78	0.0059
	5230	11.48	14.06	4.44	2.78	0.0078
11ac VHT20	5180	12.25	16.79	4.44	2.78	0.0093
	5200	11.68	14.72	4.44	2.78	0.0081
	5240	11.99	15.81	4.44	2.78	0.0087
11ac VHT40	5190	10.23	10.54	4.44	2.78	0.0058
	5230	11.52	14.19	4.44	2.78	0.0079
11ac VHT80	5210	9.94	9.86	4.44	2.78	0.0055



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Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm ²)
11a	5745	9.02	7.98	4.54	2.84	0.0045
	5785	8.53	7.13	4.54	2.84	0.0040
	5825	8.48	7.05	4.54	2.84	0.0040
11n HT20	5745	8.69	7.40	4.54	2.84	0.0042
	5785	8.32	6.79	4.54	2.84	0.0038
	5825	8.38	6.89	4.54	2.84	0.0039
11n HT40	5755	9.1	8.13	4.54	2.84	0.0046
	5795	8.83	7.64	4.54	2.84	0.0043
11ac VHT20	5745	8.59	7.23	4.54	2.84	0.0041
	5785	8.36	6.85	4.54	2.84	0.0039
	5825	8.34	6.82	4.54	2.84	0.0039
11ac VHT40	5755	9.14	8.20	4.54	2.84	0.0046
	5795	8.85	7.67	4.54	2.84	0.0043
11ac VHT80	5775	8.11	6.47	4.54	2.84	0.0037

Based on safety distance (r) **20cm**, the antenna gain (G) is **2.78 Numerical**, and the highest power output (P) is **19.01mW**, the power density (S) is **0.0105mW/cm²**.