

FCC RF EXPOSURE REPORT

FCC ID: 2ALQW-INTELLIPLUG

Project No. : 1704C010
Equipment : Smart plug
Test Model : intelliPLUG
Series
Model HME080021N, KK-MINI-US
Applicant : Inspiring Corporation Limited
Address : Room 327, Building I, Zhihuigu, Chezhan
Avenue, Lucheng District, Wenzhou, Zhejiang
According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	3

TEST RESULTS

EUT :	Smart plug	Model Name :	intelliPLUG
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Mode:	TX B Mode_CH01/06/11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.9953	10.28	10.6660	0.00424	1	Complies
3	1.9953	9.35	8.6099	0.00342	1	Complies
3	1.9953	8.16	6.5464	0.00260	1	Complies

EUT :	Smart plug	Model Name :	intelliPLUG
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Mode:	TX G Mode_CH01/06/11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.9953	21.7	147.9108	0.05874	1	Complies
3	1.9953	21.64	145.8814	0.05794	1	Complies
3	1.9953	21.74	149.2794	0.05929	1	Complies

EUT :	Smart plug	Model Name :	intelliPLUG
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Mode:	TX N20 Mode_CH01/06/11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.9953	17.65	58.2103	0.02312	1	Complies
3	1.9953	16.86	48.5289	0.01927	1	Complies
3	1.9953	16.99	50.0035	0.01986	1	Complies

Note: the calculated distance is 20 cm.