

FCC RF Exposure

FCC ID: 2AC6AC61UHF

Applicant: Shenzhen Chainway Information Technology Co.,Ltd.

Exposure category: General population/uncontrolled environment

EUT Type: Production Unit

Device Type: C61 UHF

Refer Standard: FCC Part 2.1091: Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands)

FCC MPE Limited:

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

Test Data

Predication of MPE limit at a given distance

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

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, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Antenna Gain information

Antenna Gain: 4dBi

Conducted Output Power Results

Test Channel	Frequency (MHz)	RF Power(dBm)
1	902.75	28.24
26	915.25	28.72
50	927.25	28.86

Calculation results: pass

Frequency (MHz)	RF distance(cm)	Result (mW/cm ²)	Limit (mW/cm ²)
902.75	20	0.33	0.602
915.25	20	0.37	0.610
927.25	20	0.38	0.618