FCC ID: 2BFAD-AUTOSALI

Maximum Permissible Exposure (MPE)

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)						
(A) Limits for Occupational/Controlled Exposure										
0.3-3.0	614	1.63	*100	6						
3.0-30	1842/1	4.89/1	*900/f ²	6						
30-300	61.4	0.163	1.0	6						
300-1,500			f/300	6						
1,500-100,000			5	6						
(B) Limits for General Population/Uncontrolled Exposure										
0.3-1.34	614	1.63	*100	30						
1.34-30	824/1	2.19/1	*180/f ²	30						
30-300	27.5	0.073	0.2	30						
300-1,500			f/1500	30						
1,500-100,000			1.0	30						

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

$$E (V/m) = \frac{\sqrt{30*P*G}}{d}$$
 Power Density: $Pd (W/m^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Average RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 * P * G}{377 * D^2}$$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

GSM/GPRS

Antenna Type: FPC antenna

Gain: GSM 850: 0.24 dBi; PCS 1900: 1.22 dBi;

modulation	Max		Antenna		Evaluation result	Power density Limits
	tune-up power		Gain		(mW/cm2)	(mW/cm2)
	(dBm)	(mW)	(dBi)	Numeric	(IIIVV/CITIZ)	(IIIVV/CIIIZ)
GSM850	33.5	2238.721	0.24	1.06	0.4707	0.549
PCS1900	30.5	1122.018	1.22	1.32	0.2956	1.000

Signature:

Date: 2024-03-26

NAME AND TITLE (Please print or type): alex li/Manager

COMPANY (Please print or type): Shenzhen NTEK Testing Technology Co., Ltd./ 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China.

Alex