FCC ID : 2BABY696PJ580

RF EXPOSURE EVALUATION

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)

According to KDB 447498 D01 v06 RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm^2)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	**--**	**--**	**F/300**	**6**
1500-100000	**--**	**--**	**5**	**6**
(B) Limits for General Population/Uncontrol Exposures				
300-1500	**--**	**--**	**F/1500**	**6**
1500-100000	**--**	**--**	**1**	**30**

11.1 Friis transmission formula: Pd= (Pout*G)\ (4*pi*R^2)

Where

Pd= Power density in mW/cm^2

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1416

R= distance between observation point and center of the radiator in cm

Pd the limit of MPE, $1mW/cm^2$. If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

11.2 Measurement Result

Antenna gain: 3.24dBi

BT

Mode	Channel Freq. (MHz)	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
GFSK	2402	3.01	2±1.5	3.5	2.1086	0.0009	1
GFSK	2441	1.71	2±1.5	3.5	2.1086	0.0009	1
GFSK	2480	1.17	2±1.5	3.5	2.1086	0.0009	1
1/4Π-DQPSK	2402	3.34	2±1.5	3.5	2.1086	0.0009	1
1/4Π-DQPSK	2441	1.74	2±1.5	3.5	2.1086	0.0009	1
1/4Π-DQPSK	2480	1.25	2±1.5	3.5	2.1086	0.0009	1
8DPSK	2402	3.52	2±1.5	3.5	2.1086	0.0009	1
8DPSK	2441	1.86	2±1.5	3.5	2.1086	0.0009	1
8DPSK	2480	1.30	2±1.5	3.5	2.1086	0.0009	1