FCC ID: 2AC37PBB-300S

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)

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic	Power	Average						
Range(MHz)	Strength(V/m)	Field	Density(mW/cm ²)	Time						
		Strength(A/m)								
(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*R²)

Where

Pd= Power density in mW/cm²

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/cm². 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: 0 dBi

BT DSS:

Mode	Channel Freq. (MHz)	Measured power (dBm)	Tune-up power (dBm)	Max tune- up power (dBm)	Max tune-up power (mW)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
GFSK	2402	-2.76	-3±1	-2	0.6310	1	0.000126	1
GFSK	2441	-3.46	-4±1	-3	0.5012	1	0.00010	1
GFSK	2480	-4.16	-4±1	-3	0.5012	1	0.00010	1
1/4Π- DQPSK	2402	-2.5	-3±1	-2	0.6310	1	0.000126	1
1/4Π- DQPSK	2441	-3.17	-3±1	-2	0.6310	1	0.000126	1
1/4Π- DQPSK	2480	-3.92	-4±1	-3	0.5012	1	0.00010	1
8DPSK	2402	-2.82	-3±1	-2	0.6310	1	0.000126	1
8DPSK	2441	-3.47	-4±1	-3	0.5012	1	0.00010	1
8DPSK	2480	-4.15	-4±1	-3	0.5012	1	0.00010	1

Signature:

Sam Lv

Date: 2017-08-02