FCC ID: 2ABHA0041

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:

| Operatin g Mode | Test Channel | Meas ured power (dBm) | Tune up tolerance (dBm) | Max tune up conducte d power(d Bm) | Output Peak power (mW) | Ant. Gain (dBi) | Ant. Gain (nume ric) | Power density at 20cm (mW/ cm2) | Power density Limits (mW/ cm2) |
|--------------------|-----------------|--------------------------------|-------------------------------|---|---------------------------------|-----------------------|-------------------------------|---------------------------------------|--|
| GFSK | 2402 | -5.92 | -6±1 | -5 | 0.31623 | 0 | 1 | 0.000063 | 1 |
| GFSK | 2441 | -5.73 | -6±1 | - 5 | 0.31623 | 0 | 1 | 0.000063 | 1 |
| GFSK | 2480 | -4.53 | -5±1 | -4 | 0.39811 | 0 | 1 | 0.000079 | 1 |
| 1/4Π- DQPSK | 2402 | -4.96 | -5±1 | -4 | 0.39811 | 0 | 1 | 0.000079 | 1 |
| 1/4Π- DQPSK | 2441 | -4.65 | -5±1 | -4 | 0.39811 | 0 | 1 | 0.000079 | 1 |
| 1/4Π- DQPSK | 2480 | -3.36 | -3±1 | -2 | 0.63096 | 0 | 1 | 0.000126 | 1 |
| 8DPSK | 2402 | -5.17 | -5±1 | -4 | 0.39811 | 0 | 1 | 0.000079 | 1 |
| 8DPSK | 2441 | -4.79 | -5±1 | -4 | 0.39811 | 0 | 1 | 0.000079 | 1 |
| 8DPSK | 2480 | -3.75 | -4±1 | -3 | 0.50119 | 0 | 1 | 0.000100 | 1 |

Signature:

Lisa Wang Date: 2018-07-25