FCC ID: XN6-SB2821D6

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 Field | Power | Average Time | | | | | |
|---|----------------|----------------|------------------------------|--------------|--|--|--|--|--|
| Range(MHz) | Strength(V/m) | Strength(A/m) | Density(mW/cm ²) | | | | | | |
| (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(20cm)

Pd the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

mW=10^(dBm/10)

11.2 Measurement Result

Operation Frequency:BT 2402-2480MHz

Power density limited: 1mW/ cm² Antenna Type: PCB antenna

antenna gain: 0dBi

R=20cm

mW=10^(dBm/10)

BT ANT

| Channe I Freq. (MHz) | modulation | conducted power (mW) | conducted power (dBm) | Tune-up power (dBm) | Max tune-up power (dBm) | Antenna Gain Numeric | Evaluation result (mW/cm2) | Power density Limits (mW/cm2) |
|----------------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------------------|----------------------------|----------------------------|-------------------------------|
| 2.402 | GFSK | 2.30 | 3.61 | 4±1 | 5 | 1 | 0.000629 | 1 |
| 2.441 | GFSK | 2.35 | 3.71 | 4±1 | 5 | 1 | 0.000629 | 1 |
| 2.480 | GFSK | 2.66 | 4.25 | 4±1 | 5 | 1 | 0.000629 | 1 |
| 2.402 | π /4- DQPSK | 1.63 | 2.12 | 2±1 | 3 | 1 | 0.000397 | 1 |
| 2.441 | π /4- DQPSK | 1.60 | 2.05 | 2±1 | 3 | 1 | 0.000397 | 1 |
| 2.480 | π /4- DQPSK | 1.96 | 2.93 | 2±1 | 3 | 1 | 0.000397 | 1 |
| 2.402 | 8DPSK | 2.02 | 3.06 | 3±1 | 4 | 1 | 0.000500 | 1 |
| 2.441 | 8DPSK | 2.02 | 3.06 | 3±1 | 4 | 1 | 0.000500 | 1 |
| 2.480 | 8DPSK | 2.37 | 3.75 | 3±1 | 4 | 1 | 0.000500 | 1 |
| 2402 | GFSK | 1.32 | 2.21 | 3±1 | 4 | 1 | 0.000500 | 1 |
| 2440 | GFSK | 1.33 | 2.02 | 3±1 | 4 | 1 | 0.000500 | 1 |
| 2480 | GFSK | 1.38 | 3.05 | 3±1 | 4 | 1 | 0.000500 | 1 |

Conclusion:

For the max result: 0.000629≤ 1.0 for 1g SAR, No SAR is required.

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