FCC ID: 2AX5VSTRSIJ1

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 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 Gene | ral 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.

Measurement Result

Operation Frequency: GFSK: 905 MHz~926.5MHz Antenna Type: Antenna Type: Planar Inverted L- Antenna Antenna gain: Antenna:-4 dBi R=20cm

905MHz OCW=120KHz

| Channel Freq. (MHz) | Channel | | conducted power | Tune-up | Мах | | Antenna | | Evaluation result | Power density Limits |
|------------------------|------------|------------------|-----------------|---------------|------|--------|---------|--------------|----------------------|-------------------------|
| | modulation | nodulation (dBm) | power (dBm) | tune-up power | | Gain | | (mW/cm2) | (mW/cm2) | |
| | | | | (dBm) | (mW) | (dBi) | Numeric | (IIIV/CIIIZ) | (IIIW/CIIIZ) | |
| | 905.00 | GFSK | 10.63 | 11±1 | 12 | 15.849 | -4.00 | 0.40 | 0.0013 | 0.60 |

915.85MHz OCW=120KHz

| Channel Freq. (MHz) | modulation | conducted power | Tune-up | M | ax | Antenna | | Evaluation result | Power density Limits | |
|------------------------|------------|-----------------|-------------|---------------|------|---------|---------|----------------------|-------------------------|------|
| | | dulation (dBm) | power (dBm) | tune-up power | | Gain | | (mW/cm2) | (mW/cm2) | |
| | | | | (dBm) | (mW) | (dBi) | Numeric | (IIIV/CIIIZ) | (IIIW/CIIIZ) | |
| 915.8 | 85 | GFSK | 11.21 | 11±1 | 12 | 15.849 | -4.00 | 0.40 | 0.0013 | 0.61 |

926.5MHz OCW=120KHz

| Channel Freq. (MHz) modul | conducted power | | Tune-up | Max Tune-up | | Antenna | | Evaluation result | Power density Limits |
|------------------------------|--------------------|---------------------|-------------|----------------|--------|---------|---------|----------------------|-------------------------|
| | modulation | nodulation (dBm) | power (dBm) | tune-up power | | Gain | | (mW/cm2) | (mW/cm2) |
| | | | | (dBm) | (mW) | (dBi) | Numeric | (IIIW/CIIIZ) | (mw/cmz) |
| 926.50 | GFSK | 10.79 | 11±1 | 12 | 15.849 | -4.00 | 0.40 | 0.0013 | 0.62 |

Conclusion:

For the max result : 0.0013≤ 0.60 for Max Power Density, compliance RF exposure..

Note: This product does not support simultaneous delivery.

Alex

Signature:

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