FCC ID: 2AIV9-D706

Maximum Permissible Exposure (MPE)

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/ | 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/ | 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

2.4G WIFI:

Operation Frequency: 802.11b/g/n20: 2412MHz~2460MHz;

802.11n40: 2422MHz~2452MHz

Power density limited: 1mW/ cm² Antenna Type: Metal Antenna

Antenna gain:2.75 dBi,

R=20cm Bluetooth DTS:

| Channel Freq. (MHz) | | conducted power | Tune-up power (dBm) | Max | | Antenna | | Evaluation result | Power density |
|------------------------|----------------|-----------------|------------------------|---------------|--------|---------|---------|-------------------|---------------|
| | modulation | (dBm) | | tune-up power | | Gain | | (mW/cm2) | (mW/cm2) |
| | | | | (dBm) | (mW) | (dBi) | Numeric | (IIIVV/CIIIZ) | (IIIVV/CIIIZ) |
| 2412 | 802.11b | 14.5 | 15±1 | 16 | 39.811 | 2.75 | 1.88 | 0.01492 | 1 |
| 2437 | | 14 | 15±1 | 16 | 39.811 | 2.75 | 1.88 | 0.01492 | 1 |
| 2462 | | 14.1 | 15±1 | 16 | 39.811 | 2.75 | 1.88 | 0.01492 | 1 |
| 2412 | 802.11g | 14 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2437 | | 13.5 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2462 | | 13.9 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2412 | 802.11n20 | 14.2 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2437 | | 14.2 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2462 | | 13.5 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2422 | 802. 11n4 0 | 14 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2437 | | 13.9 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |
| 2452 | | 14.5 | 14±1 | 15 | 31.623 | 2.75 | 1.88 | 0.01185 | 1 |

Conclusion:

For the max result : 0.01492≤ 1.0 for Max Power Density, compliance the RF Exposure.

Signature: Date: 2018-06-25

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