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RF EXPOSURE EVALUATION

FCC ID: 2AFWN-EL043G2

Standard Requirement

The following FCC Rule Parts and procedures are applicable:

Part 1.1310 Radiofrequency radiation exposure limits
Part 2.1091 Radiofrequency radiation exposure evaluation: Mobile device
KDB447498 D01 v06 Mobile and Portable Devices RF Exposure Procedures and Equipment
Authorization Policies

Table 1 below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Table 1—Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) |
|---|-------------------------------|-------------------------------|---------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 |
| 3.0-30 | 1842/f | 4.89/f | *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 General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *100 | 30 |
| 1.34-30 | 824/f | 2.19/f | *180/f ² | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | <u>1.0</u> | 30 |

f = frequency in MHz

^{* =} Plane-wave equivalent power density



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MPE calculation

 $S = EIRP / (4\pi R^2)$

Where S: Power density

EIRP: PxG

P: Maximum transmitter power

G: Antenna gain

R: distance to the centre of radiation of the antenna

EUT RF Exposure

P: 2.64 dBm (1.837 mW)

G: -4.3 (x 0.37)

R: 20 cm

 $S = 0.00014 \text{ mW/cm}^2$

Conclusion

This confirms compliance to the required Radio frequency radiation exposure limit.