ATTACHMENT FCC ID: 2AGENWAYH

** MPE Calculations **

The peak radiated output power (EIRP) is calculated as follows:

EIRP = P + G EIRP = -0.40 dBm + 1.99 dBi EIRP = 1.59 dBm	Where, P = Power input to the antenna (mW) G = Power gain of the antenna (dBi)

Power density at the specific separation:

$S = PG/(4R^2\pi)$ $S = (0.91*1.58) / (4 * 0.34^2 * \pi)$ $S = 0.46\ mW/cm^2$	Where, S = Maximum power density (mW/cm^2) P = Power input to the antenna (mW) G = Numeric power gain of the antenna R = Distance to the center of the radiation of the antenna (0.5cm = limit for MPE)

The Maximum permissible exposure (MPE) for the general population is 1 mW/cm^2 .

The power density at 0.5cm does not exceed the 1 mW/cm^2 limit.

Therefore, the exposure condition is compliant with FCC rules.

Estimated safe separation:

$R = \sqrt{(PG / 4\pi)}$ $R = \sqrt{(0.91* 1.58 / 4\pi)}$ R = 0.34 Cm	Where, P = Power input to the antenna (mW) G = Numeric power gain of the antenna R = Distance to the center of the radiation of the antenna (0.5cm = limit for MPE)

The numeric gain(G) of the antenna with a gain specified in dB is determined by:

$G = Log^{-1}$ (dB antenna gain / 10)

G = Log-1 (1.99 / 10)

G = 1.58

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- Min. transmitting frequency = 2402 MHz
- Min. test separation distance = 5 mm
- Max. Power with tune-up tolerance = 0 dBm = 1 mW

(Measured power 0 dBm ± 0.5dB)

Step 1)

SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm = **Used**

[(max.power of channel, including tune-up torelance, mW)/(min. test separation distance, mm)] * [√f(GHz)]

= [0.91 / 5] * [√ 2.402] = 0.28 ≤ 3, for 1g SAR

Thus, SAR for this device is not required.

Step 2)

SAR Test exclusion thresholds for 100MHz to 1500MHz at test separation distance > 50 mm = **N/A**

[Threshold at 50mm in step 1) + (test separation distance - 50 mm) * (√f(MHz)/150] mW

Step 3)

SAR Test exclusion thresholds for 1500MHz to 6GHz at test separation distance > 50 mm = **N/A**

[Threshold at 50mm in step 1) + (test separation distance - 50 mm) * 10] mW