Maximum Permissible Exposure

FCC ID: BEJWN8122E
Product Name: Wi-Fi module
Model No: WN8122E

Futaba Corporation declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation. Based on safety distance 20cm,

For 2.4GHz band, RF Exposure Calculations:

$S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where S = Power Density in mW/cm^2
P = 19.38dBm =86.696mW
G = -0.68dBi = 0.85 Numerical
r = 20cm

$S = 86.696*0.85 / 4*\pi * 20^2 = 0.0146mW/cm^2$

For 5.2GHz band, RF Exposure Calculations:

RF Exposure Calculations:
$S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where S = Power Density in mW/cm^2
P = 15.44dBm =34.99mW
G = 0.62dBi = 1.15 Numerical
r = 20cm

$S = 34.99*1.15 / 4*\pi * 20^2 = 0.008mW/cm^2$

For 5.8GHz band, RF Exposure Calculations:

RF Exposure Calculations:
$S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where S = Power Density in mW/cm^2
P = 19.76dBm =94.62mW
G = 0.52dBi = 1.127 Numerical
r = 20cm

$S = 94.62*1.127 / 4 * \pi * 20^2 = 0.0212 mW/cm^2$

Sincerely Yours,

Mr. Ben Cheng
Manager
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