

# **MPE CALCULATION**

For *HYUNDAI MOBIS CO., LTD -* ; Model: AC1B1INAN

FCC ID: TQ8-AC1B1INAN

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65 / 47 CFR §2.1091
EUT Frequency Band:	2402 – 2480 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 – 100,000 MHz
Power Density Limit:	1.0mW/ cm <sup>2</sup> ;

Equation:  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$   
Where, S = Power Density  
P = Power Input to Antenna  
G = Antenna Gain  
R = distance to the center of radiated antenna

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Low Channel (2402 MHz): Power =3.49 dBm, Antenna Gain = 3.5 dBi, Prediction distance 20cm

$S = 0.000995 \text{ mW/cm}^2$

## Result

The Above Result had shown that Device complied with 1.0 mW/cm<sup>2</sup> Power density requirement for distance of 20cm.

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