

## MPE CALCULATION

**For SCHMIDT – G-BOX Intelligent RF Reader; Model: GBOX-P18SK**  
**FCC ID: VW6-GBOXPSKGEN2**

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC CFR 2.1091
EUT Frequency Band:	902.7-927.3 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 – 1500 GHz
Power Density Limit:	0.602 mW/ 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 (902.700 MHz): Power = 26.70dBm, Antenna Gain = 8dBi, Prediction distance 20cm

S = 0.58 mW/cm<sup>2</sup>

### Result

The Above Result had shown that Device complied with 0.602 mW/cm<sup>2</sup> Power density requirement for distance of 20cm.

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