

MPE CALCULATION

For Zebra Technologies – Thermal Card Printer; Model: P430i

FCC ID: I28-P430I-UHF

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:	13.56 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1.34 – 30 MHz
Power Density Limit:	0.979 mW/ cm ² ;

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

Frequency: 13.56 MHz, ERP = -41.99dBm, Prediction distance 20cm

S = 0.00000001258 mW/cm²

Result

The Above Result had shown that Device complied with 0.979 mW/cm² Power density requirement for distance of 20cm.

Completed By : Dan Coronia

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