MPE CALCULATION

For AVERY DENNISON –Ultra High Frequency Reader Module;
FCC ID: YCZ000700

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
EUT Frequency Band:	906.10 – 915.90 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300-1500 MHz
Power Density Limit:	f/1500 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

Prediction distance 20cm

Antenna Gain	Channel	Channel Frequency (MHz)	Measured Output Power(dBm)	Power Density Limit (mW/ cm^2)	Power Density (mW/ cm^2)
0dBi	Low	906.10	24.73	0.604	0.0591
0dBi	Mid	910.90	24.40	0.607	0.0548
0dBi	High	915.90	24.07	0.611	0.0508

Result

The Above Result had shown that Device complied with f/1500 mW/cm^2 Power density requirement for distance of 20cm.

Completed By : David Zhang

Date : Apr 13, 2010