

$$S = GP/(4\pi R^2)$$

S = power density

P = power output

G = antenna gain

R = distance to antenna

PD = power density

	<b>GPRS</b>			<b>BT</b>			<b>RFID</b>		
	<b>800</b>								
P	<b>30.63</b>	(dBm)		<b>2.06</b>	(dBm)		<b>29.43</b>	(dBm)	
P	<b>1156</b>	(mW)		<b>1.61</b>	(mW)		<b>877</b>	(mW)	
G	<b>2</b>	(dBi)		<b>1.3</b>	(dBi)		<b>1.5</b>	(dBi)	
G numeric	<b>1.58</b>	(numeric)		<b>1.35</b>	(numeric)		<b>1.41</b>	(numeric)	
R	<b>20</b>	(cm)		<b>20</b>	(cm)		<b>20</b>	(cm)	
Duty Cycle	<b>50</b>	(%)		<b>100</b>	(%)		<b>100</b>	(%)	
Frequency	<b>824</b>	(MHz)		<b>2402</b>	(MHz)		<b>902</b>	(MHz)	
MPE limit	<b>0.549</b>	(mW/cm^2)		<b>1.0</b>	(mW/cm^2)		<b>0.601</b>	(mW/cm^2)	
PD	<b>0.182</b>	(mW/cm^2)		<b>0.000431</b>	(mW/cm^2)		<b>0.246</b>	(mW/cm^2)	
Margin	<b>4.8</b>	(dB)		<b>33.7</b>	(dB)		<b>3.9</b>	(dB)	
Combined	0.33179	+		0.000431	+		0.41	=	0.74