

The following tables tell you the approximate distances required to reach the Salzburg Precautionary Limit of 2001 and 2002.

2. Cell Tower/Mobile Phone Mast (10 W)



Distance	Approximate power density assuming 17 dB gain	Notes
100m	4 mW/m ²	$10000\text{mW}/(4\pi(100\text{m})^2) \cdot 10^{(17/10)} = 0.08 \cdot 50 = 4 \text{ mW}/\text{m}^2$
200m	1 mW/m ²	<== Salzburg Precautionary Limit (2001)
630m	100 μW/m ²	<== EU STOA 2001
2 km	10 μW/m ²	<== New Salzburg Precautionary Outdoor (2002)

Recommended Distances for Wireless Towers

Transmitter	Transmit Power	Salzburg(2001)* assuming 17 dB gain	Salzburg(2002)* assuming 17 dB gain	Comments
Very Weak Transmitter	1 W	63m	630m	
Weak Cell Tower	10 W	200m	2 km	
Strong Cell Tower	50 W	446m	4.46 km	Many surveys find cancer or other health effects within 300-400 meters.
Stronger Cell Tower	100 W	630m	6.3 km	

Radio Tower

Radio Tower	Transmit Power	Salzburg (2001)	Salzburg (2002)	Comments
Radio Tower	6 kW	690m	6900m	
Radio Tower	20 kW	1.26 km	12.6 km	Korean study (Mina Ha) finds risk of childhood leukemia within 2 km
Strong Radio Tower	100 kW	2.82 km	28.2 km	
Stronger Radio Tower	500 kW	6.3 km	63 km	Vatican radio tower cancer risk within 5.5 mile radius = 8.85 km. Said to include a 500 kW transmitter for the Far East and Latin America
Very Strong Radio Tower	1000 kW	8.9 km	89.2 km	