

RF Testing Results

Date: 19 September 2010 Time: 3-4 pm Place: 4537 Rocky Point Rd. (gate)

Testing Equipment: RF broad-spectrum meter HFE59B/HFW35C by Gigahertz-Solutions

All RF measurements provided below are spot measurements with peak hold values.

	Exposure Levels in $\mu\text{W}/\text{m}^2$
World Health Organization International Commission of Non-ionizing Radiation Protection (1998) Canada Safety Code 6 (1999): 1800 MHz	10,000,000
RF radiation exposure from cell phone handset held next to head	up to 10,000,000
Russia for sum total of RF exposure (1996) China for sum total of RF exposure (1987)	100,000
Switzerland (NISV 2000): 1800 MHz	70,000
In the vicinity of cell phone base stations (up to 400 m)	1,000-100,000
Cordless phone (DECT/GHz technology) (1 m distance)	2,000-20,000
Wi-Fi router/access point/PC card (1 m distance)	2,500-10,000
Salzburg Resolution (2000) BioInitiative Working Group recommendation for outdoor environment (2007) Building Biology Recommendation for Sleeping Areas SBM-2008 "extreme concern"	< 1,000 < 1,000 $\geq 1,000$
Health effects observed in populations near cell phone towers (Kundi 2009)	$\geq 500-1,000$
Melatonin suppression during sleep (Altpeter 1995)	≥ 500
Building Biology Recommendation for Sleeping Areas SBM-2008 "strong concern"	10-1,000
BioInitiative Working Group recommendation for indoor environment (2007) European Parliament (STOA 2001)	100
Salzburg Public Health Office Recommendation for GSM sum total—outdoor environment (2002)	10
Building Biology Recommendation for Sleeping Areas SBM-2008 "slight concern"	0.1-10
Salzburg Public Health Office Recommendation for GSM sum total—indoor environment (2002)	1
4537 Rocky Point Rd. and surrounding area	30-800 MHz 4-8 800-2400 MHz 0.2-1.2 2400-6000 MHz < 0.2
Building Biology Recommendation for Sleeping Areas SBM-2008 "no concern"	≤ 0.1
Minimum power density level required to maintain connection with cell phone handset	0.001
Natural Background	< 0.000 001

$$100 \text{ mW}/\text{m}^2 = 100,000 \text{ } \mu\text{W}/\text{m}^2 = 10 \text{ } \mu\text{W}/\text{cm}^2$$

DECT – Digital Enhanced Cordless Telecommunications

GHz – Gigahertz (unit of frequency) GSM – Global System for Mobile Communications

NISV – Swiss regulation concerning protection against nonionizing radiation

SBM – Standard of Building Biology Testing Methods

MHz – Megahertz (unit of frequency)

RF – Radiofrequency

STOA – Science and Technology Options Assessment (EU)

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