

## Executive Summary

# **The Ability of a Rare-Earth Element-Enriched Mineral Blend to Reduce Mobile Wireless Phone Radiation**

There is now accumulating scientific evidence that cellular phone and mobile phone radiation are harmful to the body. A previous study with cellular phones demonstrated the efficacy of the Aulterra Neutralizer in this regard, and the present study extends these results to radiation from mobile phones. The Neutralizer is composed primarily of a mineral blend containing large amounts of para-magnetic elements.

### **Methodology**

The radiation emitted by a GE wireless 2.45 GHz phone was measured while actively receiving a repeating, pre-recorded weather channel transmission. The signal detected by the antenna was then transferred to a spectrum analyzer. The same test was performed with and without the Aulterra Neutralizer, thereby allowing direct comparisons.

### **Results**

The mobile phone generated only one peak at 2.48GHz with two smaller side peaks on either side of the main peak. In the absence of the Neutralizer the amplitude of this main peak was 61.0 dBm. **With the Neutralizer the intensity was reduced to 42.9 dBm. This 30% reduction was statistically significant.** In addition both shoulder peaks present in the mobile phone measures were completely eliminated in the presence of the Neutralizer. The results of these experiments indicate that the Aulterra Neutralizer weakens mobile phone radiation by reducing the intensity of its signature frequency peaks.

This new data should be taken in conjunction with the previous observation that the Neutralizer also reduces the intensity of cell phone radiation and its damaging effects on the conformational state of human DNA. These studies suggest that the Neutralizer protects the body by two different mechanisms; a biochemical defense response and a physical alteration of the cellular/mobile phone signal.

See below to view research.

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### **THE ABILITY OF A REAR-EARTH ELEMENT-ENRICHED MINERAL BLEND TO REDUCE MOBILE WIRELESS PHONE RADIATION**

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There is now accumulating scientific evidence that cell phone (1) and mobile phone (2) radiation is harmful to the body. Most studies use single isolated frequencies known to be emitted by these phones, rather than using the phone itself which emits a complex, broader spectrum of frequencies. Many studies do not report detrimental effects of cell/mobile phone radiation, assumedly because the appropriate experimental conditions were not used. Several official government organizations recommend the Precautionary Principle regarding Electropollution and there is clearly a need for technology to prevent or reduce such damage. A previous study (3) with cell phones demonstrated the efficacy the Aulterra Neutralizer in this regard and the present study extends these results to radiation from mobile phones. The Neutralizer is composed primarily of a mineral blend containing large amounts of ferro- and para-magnetic elements.

### Methodology

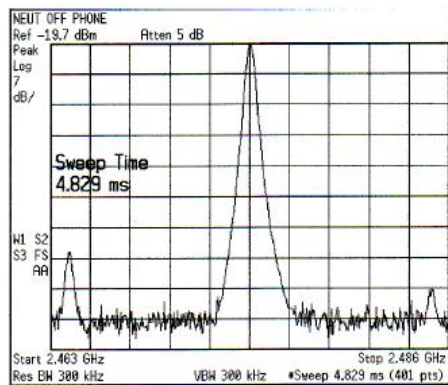
The radiation emitted by a GE wireless 2.45 GHz phone (2002) was measured by placing a broad-band antennae (telescope variety from Radio Shack) on top of the mobile phone while actively receiving a repeating, pre-recorded weather channel transmission. The signal detected by the antenna was then transferred to a spectrum analyzer (Agilent ESAE series with FM modulation). Six separate analyzer graphs, plotting intensity of emitted radiation vs frequency, were generated from the mobile phone and six additional graphs were then generated using the same phone with the Aulterra Neutralizer attached. Representative graphs are presented here with the same scale (Dbm intensity scale) thereby allowing direct comparisons.

### Results

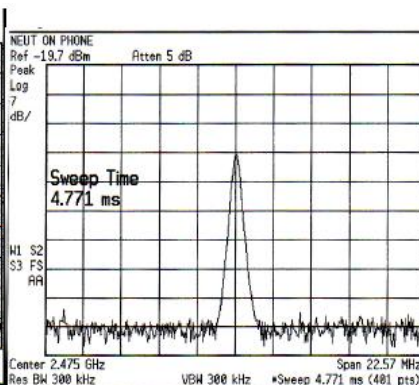
For these experiments, the background noise was weak. The mobile phone generated only one peak at 2.48GHz with two smaller side peaks on either side of the main peak. In the absence of the Neutralizer the amplitude of this main peak was  $61.0 \pm 1.64$  dBm. With the Neutralizer the intensity was reduced to  $42.9 \pm 1.16$  dBm. This 30% reduction was statistically significant ( $p < 0.0001$ ). In addition the both shoulder peaks present in mobile phone measures were completely eliminated in the presence of the Neutralizer.

The results of these experiments indicate that the Aulterra Neutralizer weakens Mobile phone radiation by reducing the intensity of its signature frequency peaks. This new data should be taken in conjunction with the previous observation that the Neutralizer also reduces the intensity of cell phone radiation and its damaging effects on the conformational state of human DNA. These studies suggest the Neutralizer protects the body by two different mechanisms, a biochemical defense response and a physical alteration of the cell/mobile phone signal.

**Wireless Phone**



**Wireless Phone with Neutralizer**



## References

1. Omura, Y., and Losco M., Electro-magnetic fields in the home environment (color TV, computer monitor, microwave oven, cellular phone, etc) as potential contributing factors for the induction of oncogene C-fos Ab1, oncogene C-fos Ab2, integrin  $\alpha 5 \beta 1$  and the development of cancer, as well as effects of microwave on amino acid composition of food and living human brain. *Acupuncture and Electrotherapeutics Research, the International Journal*. Vol 18, pp.33-73, 1993.
2. Hardell L, Carlberg M, Söderqvist F, Hansson Mild K. Meta-analysis of long-term mobile phone use and the association with brain tumours. *Int J Oncol*. 2008;32:1097-103.
3. Syldona M. "Reducing the In-Vitro Electromagnetic Field Effect of Cellular Phones on Human DNA and the Intensity of Their Emitted Radiation." *Acupuncture and Electro Therapeutics Research*. 2007;32 (1-2):1-14