

## Dosimetric Assessment of a mobile telephone with and without “*Wave Buster*”

### Summary of the IMST test report 6575\_49

Ilssan Elecom Corp. (Korea) produces an accessory (product name: “*Wave Buster*”) for mobile phones in order to reduce the electromagnetic fields inside the users head. The objective of the measurements done by IMST was the dosimetric assessment of a mobile phone with and without “*Wave Buster*”. The “*Wave Buster*” consists of two pads which were attached to the mobile phone in the vicinity of the earpiece between mobile phone and the users head. The mobile phone operates in the 900 MHz frequency range. The system concept used is the GSM 900 standard.

The examinations have been carried out by the use of the commercially available dosimetric assessment system „DASY“ from Schmid & Partner Engineering AG (Switzerland). The measurements of the specific absorption rate SAR were performed according the European specification ES 59005: "Considerations for evaluation of human exposure to Electromagnetic Fields (EMFs) from Mobile Telecommunication Equipment (MTE) in the frequency range 30 MHz - 6 GHz". The maximum SAR was compared to the European CENELEC prestandard ENV 50166-2 and the German draft DIN VDE 0848 (Teil 2). The measurement results are compiled in Figure 1.

**Using “*Wave Buster*” a reduction of the maximum SAR value – measured in the worst case position (touch position) – of 4.5 % is found. Depending on the position of the mobile phone a maximum reduction of 29.6 % is measured.**

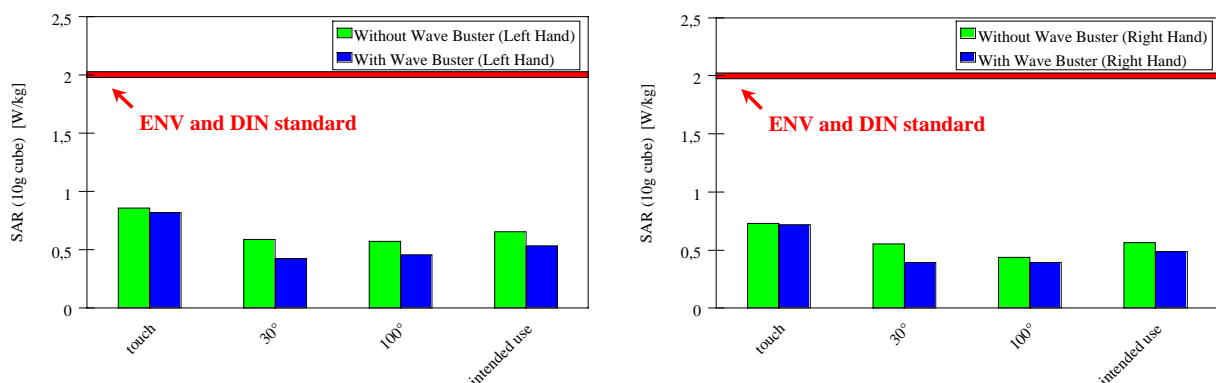


Fig.1: The measured SAR values using a mobile phone for left and right hand use in comparison to the European prestandard with and without *Wave Buster*.