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The goal of this study is to answer this question, and to provide a better level of understanding concerning interference issues for the different user groups of avalanche transceivers. The conclusions include recommendations on how to practically avoid situations which may lead to problems during companion rescue or in an organized rescue mission.

## 2 BACKGROUND

Complex electronic devices consisting of a printed circuit board with various integrated switching circuits cause due to their switching processes in operation a perpetual magnetic field of different intensity. Hans Oested in the early 1819 for example already demonstrated such a phenomenon, when he observed that electric current could deflect a magnetic needle.

Based on this discovery it is obvious that any product which consumes electric power creates a perpetual magnetic field – even if this magnetic field is still small.

Instancing displays which are used in many devices are a special "source" of generating electromagnetic fields. To run a display needs on one hand electric power and furthermore creates constantly changing magnetic fields. As well electronic components such as charge pumps and processors are creating magnetic fields.

## 3 AVALANCHE TRANSCIEVER

Each transceiver consists of a transmitter and a receiver. To reach the goal of this study it is required to analyse both modes, "SEND" and "SEARCH" individually.

The aim of "SEND" mode is to transmit a magnetic field in compliance with EN 300 718.

The aim of "SEARCH" mode is to be able to detect even very weak signals from buried subjects far apart and to process the signal into an easy to interpret distance and direction indication to guide the rescuer.

## 4 METHODS

We applied quantitative laboratory measurements for both, "SEND" and "SEARCH" mode with a number of different beacons which were available on the market in the 2013/14 season.

In each test, interfering objects were positioned in different distances away from the searching or sending beacon.

The tests started at that distance where no influence to the sending or receiving beacon has been observed. Then the distance between the beacon and the interfering object was decreased in steps (e.g. 10cm) and the influence measured.

The first objects – different metallic items which are more or less common or useful for backcountry trips - had the potential to disturb the transmit mode of an avalanche transceiver [Tab. 1].

Metallic items influence magnetic fields and resonant circuits. Most products like electronic devices, shovels, beverage and food packaging, etc. contain metals, even if this is not always obvious for the user. For testing purposes, a standardized aluminum plate of 83x188x1 mm has been chosen. This dimension allowed that each tested beacon could be fully covered during the test.

The second object was to create interference to a receiving beacon. We decided to choose commonly used consumer electronics for this purpose [Tab. 2].

To exclude external interference during the measurements all tests were made in a shielded radio frequency chamber. A reference loop antenna was used to generate a reference 457kHz signal. The signal was generated outside of the shielded chamber and supplied by an again shielded cable.

The signals measured during the tests were recorded by a PULSEBarryvox via its earphone jack connection. The amplitude of the 457kHz signal was equal to a signal which can be expected in a real avalanche scenario in 50m distance from a buried subject.

All measurements concerning SEARCH mode were performed in coaxial direction between the transceiver and the consumer electronics.

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