IIREC

International Institute for Research on
Electromagnetic Compatibility

Test Report and Certificate on the Effect of the Product «Qi-Home Cell» in a magnetic field with geopathic distortion and upon water

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Contractee	**QI SWISS AG** Segantinistrasse 17 7000 Chur Switzerland
Contractor / Expert	**IIREC Dr. Medinger e.U.** Mag. Dr. Walter Hannes Medinger Ringstrasse 64 3500 Krems an der Donau Austria
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Number of annexes	**2**

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Important notes:

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The scope of this report is exclusively the documentation and evaluation of effects that were assessed by objective physical measurement. Neither the investigation of manufacturing nor of mode of operation of the product, nor rendering information to third parties was contracted. It is up to the manufacturer to care for constant product quality.

1. Subject of Investigation

The international institute IIREC was mandated by written contract of 3-30-2017 and diliverance of a test sample by 5-9-2017 to test the effect of the product «Qi-Home Cell» by objective measurements (with physical meters, independent of the subjective sensitivity of humans). The tests outlined here aimed at testing the effectiveness of the product, as claimed by the manufacturer, regarding the following items:

1. Improvement of the spatial magnetic field in geopathic zones
2. Resistance against possible impairment of this effect
3. Improvement of the biological quality of water

According to experience by IIREC the procedure of grid measurement of the vertical component of magnetic flux density, or induction, in the static (DC) measurement mode including the evaluation of the divergence of the magnetic field gradient is appropriate to give evidence if a product of this kind is able to **smoothen magnetic field gradients** («**magnetic field equalizing effect**»).

The questions relevant to the user whether the product will unfold its **effect reliably**, and whether this effect will be impaired by disturbing influences of extremely distorted magnetic fields, were examined by a stress test and a repetition of the original test of the impact of the product on a geopathic field.

A satisfying answer to these question is a precondition for awarding **the biophysical test seal** by IIREC.

In order to give evidence of the biological effect of the product by means of biophysical methods, an additional test was conducted by exposition of a **water sample** to the impact of the product and by investigation of resonance frequencies of documented biological relevance.

The **test sample** was applied as handed over by the manufacturer (special edition 11/25, cf. fig. 1). The device is shaped as a flat cylinder with a ribbon in copper color around it, and a wooden basement and cover. No electric supply is needed for its operation. The device is activated by bringing it to a horizontal position. In a vertical position it would not be effective.

Fig. 1: Qi-Home Cell special edition 11/25

As a **testing field for the spatial effect in the magnetic field,** a geopathic fault zone in the ground floor of the institute building was applied. The measuring field was realized as a measuring grid with 11 x 11 measuring points stenced in a wooden board, as shown in fig. 3.

For the conduct of the stress test a **synthetic magnetic field** was generated by an arrangement of two loudspeaker magnets at an angle of 90°. The test sample was exposed in the center of this field for 72 hours.

In order to investigate the **effect upon water,** the test sample as well as a reference sample (each of tap water) were exposed to sunlight for 8 hours in plastic bottles not containing softeners. The test sample of water was centered on the product sample as exhibited in fig. 2.

Fig. 2: Water test sample centered on Qi-Home Cell

2. Testing of Effects in the Magnetic Field

The magnetic field has particular biological relevance because it permeates the body, it is not easily shielded, it influences all life processes and exerts an immediate impact on the ions, the electrically charged particles in the body (e.g. sodium, potassium, calcium, magnesium, zinc and many others in our cells, iron in hemoglobine etc.). Signals imprinted to cell water and body water are magnetic in nature.

Testing in the magnetic field, therefore, is the first choice when examining the coherent effect of resonance products. In physics, coherence is defined as a constant phase correlation between oscillations of single elements. Coherence is the principle that maximizes the impact of subtle microscopic effects, e.g. it converts normal light to laser light. In biological systems coherence discerns wellness from illness. It is the basis for quantum effects (e.g. superconductivity, Josephson effect etc.) emerging at body temperature and in the complicated biochemical milieu.

2.1 Method of measurement and evaluation

Test measurements were conducted according to the **grid measurement procedure** of IIREC. The magnitude measured was the **vertical magnetic induction** in microtesla (μT). At the measuring site, a test field of 0.5 by 0.5 m was measured. In this measuring field there were 11 x 11 = 121 measuring points at a distance of 5 cm (fig. 3).

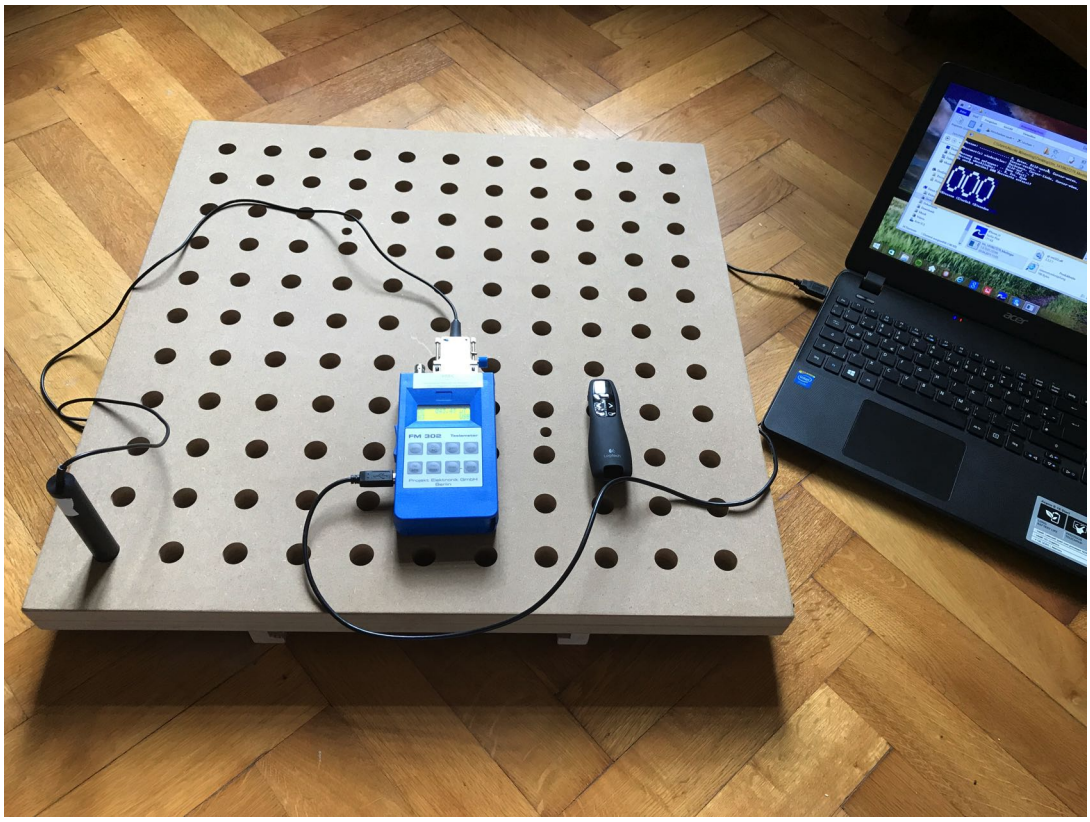


Fig. 3: Magnetfic field measuring apparatus with wooden measurement board and measuring grid, probe (black, left), meter (blue, center), presenter for taking measurement values (black, to the right in the measuring field) and measuring computer for data storage (to the right in the photograph)

The **meter** for the measurement of magnetic induction was the digital Teslameter FM 302 by Projekt Elektronik (Berlin) with an additional software for sampling the measurement data, with each set of data completed by the coordinates of the measuring point and the measuring time (date and clock time). The most important data of the measurement system are compiled in **table 1**.

The measuring field is realized by a wooden measurement board with stenced probe holes at the measuring points. This measurement **setting** makes it possible to move the probe to any measuring point avoiding deviations by inclination or torsion. Thus an optimal precision of measurement is guaranteed.

Teslameter	FM 302
Measurement range	± 200 μT
Measurement deviation	< 0,1% ± 2 Digit DC bei 25°C ± 1°C
Digital resolution	4 1/2 digits
Display range	25100 digits
Type of displayed value	mean (DC)
Display precision	0,01 μT
Sampling time	0,5 s
AS-UAP Lot axial probe	fluxgate, sensitive to direction
Bandwidth (- 3dB)	DC < 500 Hz

Table 1: Significant technical data of the measurement system

The **evaluation and mapping of measured data** was performed by the **data analysis software Surfer** by Golden Software. The values measured at single measuring points were interpolated by the software and *mapped* for the measurement area of 0.5 by 0.5 m. Contour lines were drawn along points of equal magnetic induction. The coordinate axes were labeled with lengths in m.

In the **diagrams** of annex 1 the areas between contour lines are colored. The respective value ranges of the vertical magnetic induction in μT can be read from the color scale. For a maximum of color differentiation a rainbow spectrum was applied in these diagrams.

The **contour lines** can be read in the same manner as the well-known lines of equal height in geographical maps. Lines lying close to each other indicate a strong gradient. Larger distances between the lines indicate a region with low gradients. A transition from a low gradient to a strong one or vice versa causes a disruption that will exert a biological irritation characteristic for geopathogenic zones. A smooth or "equalized" field is characterised by balanced gradients.

In order to be able to read this effect immediately from a diagram, **difference maps** were generated. In these diagrams, the mapped values are differences of measured values with and without the tested product, resp. For easy reading, these maps show threefold color: Blue color indicates a decrease, yellow color an increase (and white color constancy) of the measured value.

A **third type of diagrams** maps the degree of biological disturbance for each measuring point. From the view of mathematical physics, this is calculated as the divergence of the field gradient (**field gradient divergence FGD**). More details are found in the comments to the diagrams in the annex, and in the following sections, as well.

2.2 Detailed Investigations and Results

In the first measurement the magnetic induction was recorded in the measuring field as it was found before bringing in the test sample of the product (annex 1, fig. 1). The field turned out to be distorted by geopathic factors. The next measurement was conducted to record the impact of the test sample on the field (fig. 2). This measurement was repeated after the product sample had been put to test in an extremely inhomogeneous magnetic field (fig. 6).

The comparison of the measurement results of the geopathic background (fig. 1) and of the same test field after activation and 24 hours' impact of the test sample (fig. 2) reveals at first sight an effective balancing of field disturbances by the device to be tested. The difference mapping (fig. 3) confirms boldly the effect of the device. Moreover, from the comparison of fig. 5 to fig. 4 the geopathic degree of disturbances can be clearly seen to fade out by impact of the test sample.

2.3 Stress test in an extremely inhomogeneous magnetic field

As a matter of experience, products well suitable to perform an effective balance of magnetic field disturbances may lose or even revert this effect when exposed to a strong inhomogeneity of the magnetic field. Therefore, this type of stress test forms a standard element in the testing routines of IIREC.

The stress test was conducted by exposition of the test sample during a period of 72 hours to a magnetic field that was generated by two permanent magnets in an orthogonal configuration. After this period the test sample was taken back to the test field. The results of the following measurement of the field can be seen from fig. 6. This repetition of the field measurement under the impact of the product sample reveals some zones of disturbance, but the difference mapping (fig. 7) confirms that the sample was as effective as before the stress test. From this we conclude that the exposition to the stressing magnetic field did not result in an impairment of the efficacy of the product. The alteration in the resulting field compared to the excellent previous result finds its explanation in natural background fluctuations, but the original anomaly of spatial variations of magnetic field values was reliably damped.

The efficacy of the test sample after the stress test was even proved under harder conditions than before, because in the original measurement series the new moon phase had damped distortions, thus with the moon being in the first quarter after the stress test an elevated natural level of disturbance would be expected. Yet by impact of the test sample the measuring field was devoided of distortions to a similar degree as before, comparing with the original field at new moon.

3. Effect upon Water

3.1 Method of measurement and evaluation

From quantum electrodynamics of water it is known that frequency signals are imprinted to coherent domains of water molecules by magnetic means, and that these signals (coherent waves in the ELF band) are paralleled by microwave frequencies. By **coherence spectroscopy** developed in IIREC those imprinted signals in the biologically effective basic band from 0 to 100 Hz are detected in the microwave band. The measurement comprises excitation by clockwise and counterclockwise polarized waves.

From empirical data documented in tables and databases, the recorded signals are attributed to several fields of **biological significance,** such as resonances to organs and control systems of the human body (including psychical and cognitive functions) according to western medicine as well as eastern medicine (meridians, acupuncture points, chakras), and to physico-chemical and geological factors, as well.

The **measurement sample** was produced by 8 hours' exposition of 1.5 liters of tap water in a plastic bottle not containing softeners above the test sample resting in a horizontal position. A reference sample from tap water was stored for the same amount of time in the same kind of vessel in a neighboring room, without being exposed to the test sample.

3.2 Results and assessment

The spectra were recorded by plotting the measured resonance potentials against the basis frequencies from 0 to 100 Hz. The resulting **spectra of the test sample and the reference sample** are displayed in **annex 2**.

The uncertainty of frequency values is ± 0.5 Hz. Signals were accepted as significant if the resonance potential amounted at least at ± 30 Microvolt thus being clearly discernable from the noise level.

The **significance of the identified frequency** for important control functions in the human organism can be extracted from **table 2**.

The modification of the spectrum by impact of the product proves principally the **effectiveness of Qi-Home Cell upon water** (as a simple model of the biological organism), the interpretation of the frequencies thus imprinted in water **confirms a favorable biological effect on principal control functions**.

Regarding frequencies identified in the table on p. 11 note that the attribution of biological effects or functions is limited by the uncertainty of frequency of ± 0.5 Hz. For referenced frequencies differing from measured frequencies, the "theoretical" values are reported in brackets in the RHS column of table 2.

Interference (equivalent to frequency in Hz) ± 0,5	Interpretation
+7,5	control of hypothalamus
+11,5	control of basal nuclei (11)
-14,0	control of hypothalamus (15) ? solarplexus (15) ?
+16,0	control of basal nuclei (15,5)
+31,0	center of balance (30) ? 2nd harmonious of 31 referring to: thyroid (62) and parathyroid (62,5) glands
-33,0	pineal gland (32,5)
-41,0	heart centre (40) ?
-47,0	pineal gland, center of thinking (47,5)
+48,0	pineal gland, center of thinking (47,5)
-51,5	testes; artistic center (52,5) ?
-88,5	uterus (88), benevolence, well-mindedness (87,5) ?
+90,0	hypothalamus; umbilic chakra; recall centre

Table 2: Characteristic resonances of the test sample exposed to Qi-Home Cell (compared to non-exposed tap water) and their biological significance

+ / − sign of the frequency means a deviation of the spectral plot over resp. under the baseline.

4. Expert's Opinion

In this section, the author's opinion is given with regard to the question if the product that was tested **meets the conditions for being awarded the test seal by IIREC**. The expert judgement refers to the magnetic field measurements in DC mode as documented in section 2 and in annex 1.

4.1 Metrological significance of results

The **effects found in the measurements** – on one hand the disturbing effects in the geopathic test field, and on the other hand the alterations after positioning Qi-Home Cell in the field – have an order of magnitude that is distinctly above the measurement uncertainty, so they are clearly classified as **significant**.

The reading of DC values on the teslameter FM 302 (including des ELF) exhibits variations of 0,05 μT. Measured values, therefore, are certain if exceeding 0,1 μT. For effects evaluated as differences (between a "disturbed" field and a "balanced" one) according to laws of metrology, the threshold of certainty is computed at 0,14 μT (= 0,1 μT times square root of 2). Accordingly, DC effects from 0,15 μT upward are classified as certain.

The ranges of values in the difference maps (annex 1: figures 3 and 7) immediately tell us that this criterion is fulfilled at numerous measuring points. *The effects found exceed distinctly the measurement uncertainty and thus are metrologically significant.*

Thus, from the measurements reported in detail in section 2 and in annex 1 the following conclusions are drawn:

- Qi-Home Cell unfolds a **measurable effect of balancing the magnetic field in a geopathogenic field.** After **24 hours impact by** Qi-Home Cell, i.e. in a repetition of the measurement at the same day-time and practically the same moon phase, **the magnetic field shifts from the original distortions to generally normalized values.**

- The efficacy of the product is not lost after a 72 hours' **exposition to a strong and extremely inhomogeneous magnetic field.**

4.2 Biological relevance of results

The human body, as a "receiving antenna", is endowed with maximal biological sensitivity in those ranges where natural electromagnetic fields prevail or variate. The variations of the geomagnetic field e.g. range to an order of magnitude of 0,2 μT. In the measurement series conducted we gave evidence of the ability of the product to balance disturbances in this range of tenths of microtesla. This property is **of utmost biological importance, because it reduces the degree of disturbance to a scale that does no biological harm.**

To be sure in this point, the degree of biological disturbance, or irritation, was evaluated for the measuring points in the test field (**field gradient divergence FGD**, figures 4 to 5 and 8). The mapping of results of this data analysis reveals the improvement brought about by impact of the **Qi-Home Cell device**.

In the study documented here the **impact of the device on geopathogenic disturbances** was tested. Magnetic disturbances of these types imponder biologically quite often **at sleeping and working places**, because of long duration of stay.

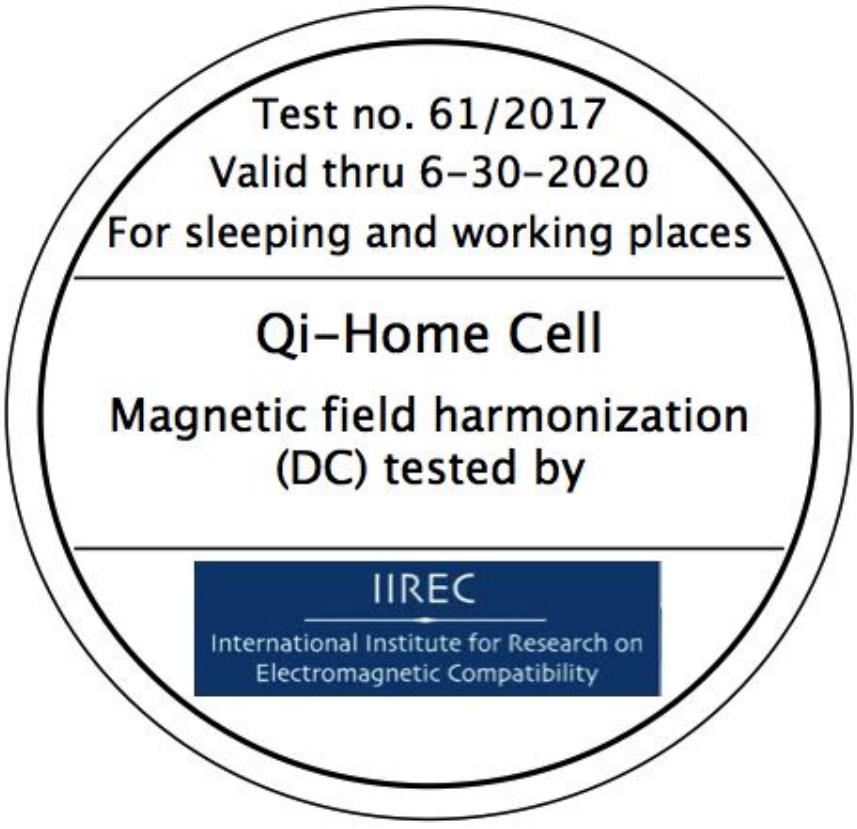
The **effects of Qi-Home Cell that were evidenced here (balance of geopathic disturbances,** and **resistance against strong magnetic field disruptions**) confirm, on the whole, a remarkable **reliability** of the product.

4.3 Awarding of test seal

Thus, by **objective physical measurements** with meters sensitive to **magnetic induction** the reliability and stress resistance of the biologically beneficial effect of Qi-Home Cell, namely its balancing of magnetiv field gradients, was proven.

The tests conducted along standard routines of IIREC have evidenced that the device is suitable for application in buildings (home and working place).

With this being evidenced, the conditions for awarding the test seal of IIREC to the product are fulfilled. The manufacturer/contractee is entitled – under the additional terms and premises quoted below – to declare the product «Qi-Home Cell» as »tested by IIREC« and to attach the following test seal to the product:



Terms:

(1) The validity of the test seal shall be prolongued in due time before expiration.

(2) IIREC shall be informed immediately of any alteration of the terms of manufacturing or of the effect of the product.

(3) The test seal shall not be applied any longer, should future testing by IIREC find a decline of product quality, or one of the terms of application not to be met any more.

Premises:

(1) The consumers of the product shall be notably informed on the proper application of the product, and that a combination with a different product might be counterproductive and should be avoided.

Important notes:

(1) The test seal may be applied with the product, the product documents, or the product wrapping, wherever a seal is attached by the manufacturer.

(2) IIREC will offer to the contractee in due time, before expiration of the validity of the test seal, a periodic audit and prolongue, in case of a positive result, the validity of the test seal.

(3) If desired, IIREC will elaborate suggestions for an extended quality assurance of the product.

(4) It is up to the manufacturer to care for constant product quality.

By his signature the expert confirms that the measurements and evaluations were conducted under his supervision, and the results being correct within the precision limits of measurement and evaluation.

Walter Hannes Medinger, MSc, PhD

Generally Sworn and Certified Expert at Court
Scientific Head of IIREC
International Institute for *EMC* Research
Electro***M***agnetic ***C***ompatibility on a biophysical foundation

(facsimile signature, an original signed personally was issued for the contractee)

Annex 1:

8 figures

Annex 2:

1 diagram including 2 spectra