




Subject: Response to Inquiry to FCC (Tracking Number 874729)
From: "oetech" <oetech@fccsun27w.fcc.gov>
Date: 11/08/2013 02:34 PM
To: <mark.koop@teleconformity.com>

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 Office of Engineering and Technology 

Office of Engineering and Technology

Inquiry on 10/27/2013 :

Inquiry:

Dear Sir/Ms.,

In accordance with KDB 680106, I am submitting an inquiry concerning a new FCC certification filing for a 112 - 205 kHz wireless inductive charger. Before sending this to a TCB for examination and upload, we seek this mandatory guidance via labhelp that currently is integrated in the KDB system. The product description of this device is included in the attachment of this inquiry, see "operation description". The outer diameter of the coil is approx. 4.5 cm and has 10 turns, see internal photo with ruler. The device operates in 15.207 and 15.209. Drawings and illustrations are attached. The radiated levels measured are 117.75 dBuV/m in 15.209 report. In the EMF report we see max.. 3.17 V/m for the E field and 0.2703 A/m for the H field both measured at 10cm distance.

Q1. Are the test methods followed by the lab okay?

Q2. How shall we inform the TCB about the outcome of this lab-help inquiry? Maybe we first have to do some corrections depending on your answer, but after getting a final "go ahead", shall we then include the FCC reply to this KDB inquiry in the exhibits to be uploaded for certification?

Q3. Would a "10cm distance" or other RF exposure warning, differently than currently stated in the "user manual addendum" be required?

Best Regards,
Mark Koop

FCC response on 11/04/2013

Based upon the submitted documentation, the following is understood to be true:

1. Power transfer is at a frequency of 112kHz to 205kHz
2. Output power from the primary is equal to or less than 5W
3. There is only a single primary transmitting coil
4. The client device must be placed directly in contact with the transmitter
5. Based upon a coil diameter of 4.35cm, the maximum coupling surface area is 14.9cm²
6. Leakage fields at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

Per the submitted User's Manual and photos, this EUT is considered to be designed for typical desktop

applications, as defined by KDB 680106 D01 Paragraph 3(3) and is subject to the evaluation considerations therein.

Due to understanding #5, this EUT does not qualify for the test exclusion defined under Paragraph 5(2) and must submit an RF exposure evaluation report for review through either a KDB or PBA prior to authorization of the equipment.

The submitted document titled "EMF Report" does qualify as a RF exposure evaluation and is consistent with previously accepted documents. However, it does not appear to include measurements from the top of the primary/client pair as described in Paragraph 3(3). Please clarify if such measurements have taken place and describe the positions listed in Tables 1 & 2 (i.e. Position A, Position B, etc.).

Upon acceptance via this KDB inquiry, as described in Paragraph 5(3), no PBA will be required for the EUT.

Q1. Are the test methods followed by the lab okay?

A1: Not yet. Please review the recommended testing guidance described in Paragraph 3(3) of KDB 680106 D01.

Q2. How shall we inform the TCB about the outcome of this lab-help inquiry? Maybe we first have to do some corrections depending on your answer, but after getting a final "go ahead", shall we then include the FCC reply to this KDB inquiry in the exhibits to be uploaded for certification?

A2: Once accepted, please submit to the TCB the entirety of this correspondence, including inquiry reply and all documentation submitted to the FCC.

Q3. Would a "10cm distance" or other RF exposure warning, differently than currently stated in the "user manual addendum" be required?

A3: No labeling other than what is called for under KDB 784748 D01 is required by the FCC.

Finally, please be aware that the E-field values in Table 1 of EMF report are labeled as A/m. This should be V/m.

---Reply from Customer on 11/07/2013---

Dear Sir/Ms.,

As requested, I am sending the corrected EMF report, it now includes the measurements from the top of the primary/client pair, and the A/m unit was also corrected to V/m. Please inform us, if this the submitted exhibits, including this updated EMF report, are now of sufficient quality to forward to the TCB for certification filing.

Best Regards,
Mark Koop

FCC response on 11/08/2013

The revised E and H field measurements meet the criteria described in KDB 680106 D01 Paragraph 3(3) and are considered acceptable. No PBA will be required for the EUT.

Attachment Details:

[RF setup photos](#)

[Operational description](#)

[PCB layout](#)

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