Reply to an OET Inquiry Response

Currently Displaying Inquiry Tracking Number: 902033

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Zip Code:
Country: China

Inquiry Details on 03/07/2024:

First category: RF Exposure *
Second category: Mobile (Section 2.1091)
Third category:
Subject: Air-to-air mobile wireless charger exposure assessment and testing consultation
Inquiry: Hi, The device is a mobile single-coil long-distance wireless charger with a maximum wireless output power of 10W. The distance between the EUT and the load is 15mm to 45mm. In normal use, the device mounts to the bottom of a desktop and is powered by an AC-DC adapter. Since there is a usage requirement of 15mm to 45mm between the device and the load, I would like to confirm with the FCC whether the RF EXPOSURE testing should still be conducted based on the type of product where the wireless charger is in 0-distance contact with the load? Attached is the product user manual. Thanks!

FCC Response on 03/07/2024:

Thank you for your inquiry. There is no user manual attached. Please re-upload that document. Additionally, please provide the following information:

1. Please provide photographs of the device from several angles (if available) with a ruler for scale.

2. Please provide the dimensions of the device as well as a diagram indicating the location of the antennas within the device. The diagram should also include the distance of each antenna to each surface and edge of the device.

3. Please provide more details on the transmission capabilities of the device including frequency bands and modulations supported by the various wireless technologies.

4. How often does the device transmit? Does the device transmit continuously, or does it support a duty cycle? If the device does have a duty cycle, please provide details.

5. Does the device support power reduction or proximity sensors of any kind? If yes, please provide details.

6. Does the device support Smart-Transmit or other Time-Averaged SAR mechanism to provide dynamic, real-time power reduction? If so, please provide details.

---Reply from Customer on 03/20/2024---

Hi?
Thank you for your inquiry. There is no user manual attached. Please re-upload that document. Additionally, please provide the following information:
Answer: Supplemented, please refer to the attached user manual.

1. Please provide photographs of the device from several angles (if available) with a ruler for scale.
Answer: Supplemented, please check the attached product photos.

2. Please provide the dimensions of the device as well as a diagram indicating the location of the antennas within the device. The diagram should also include the distance of each antenna to each surface and edge of the device.
Answer: Supplemented, please refer to the attached coil specification sheet

3. Please provide more details on the transmission capabilities of the device including frequency bands and modulations supported by the various wireless technologies.
Answer: The working frequency of this product: 115kHz -205kHz?Modulation type: FSK

4. How often does the device transmit? Does the device transmit continuously, or does it support a duty cycle? If the device does have a duty cycle, please provide details.
Answer: The operating transmission frequency of the equipment is 115kHz-205kHz. This product is a continuous transmission equipment. The duty cycle during continuous transmission is 100%.

5. Does the device support power reduction or proximity sensors of any kind? If yes, please provide details.
Answer: No.

6. Does the device support Smart-Transmit or other Time-Averaged SAR mechanism to provide dynamic, real-time power reduction? If so, please provide details.
Answer: No.

---Reply from Customer on 03/21/2024---

Hi,
The attached report was prepared based on RF exposure testing of zero-contact wireless charger product types. Please combine the above supplementary information and refer to the product type to evaluate whether the RF exposure test can be directly evaluated according to the zero-distance contact wireless charger?
Looking forward to your reply!
Thank you!

FCC Response on 04/10/2024:

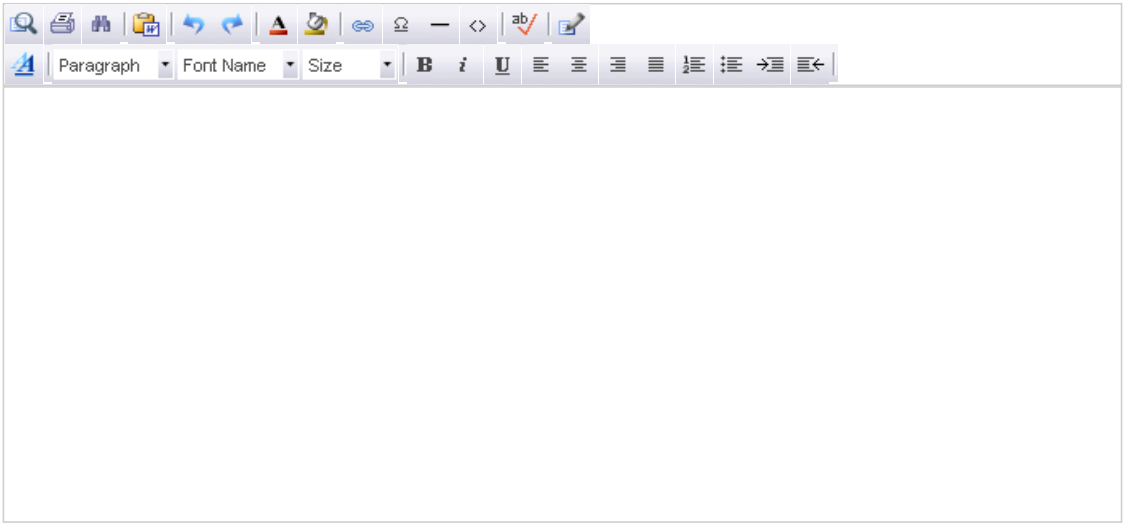
Thank you for the additional information. The desktop WPT procedure you mention should not be used for this device. A WPT device on top of a desk may occasionally be within 20 cm of a user's hands/extremities. However, with the installation of this device under a desk/table, it can be expected the user's legs will be in direct contact with the device for an extended period of time. Therefore, to be conservative, this device should be evaluated as a portable WPT and the field strength measured and estimated down to 0 mm according to the provisions of section 3.3 of FCC KDB Publication 680106 D01 Wireless Power Transfer v04. This guidance document can be found online at https://apps.fcc.gov/oetcf/kdb/forms/FTSSearchResultPage.cfm?switch=P&id=41701

Attachment List:

Coil specifications
Product photo
RF Exposure Report
User Manual

Enter any additional comments below:

*(This is a text only field. Users will be able to upload attachments after clicking on the "Proceed" button below)



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