

Response to Inquiry to FCC (Tracking Number 747837)

george.tannahill 代表 oetech@fcc.gov

发给 eric.yang@bctc-lab.com.cn

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发件人: george.tannahill<george.tannahill@fcc.gov> 代表 oetech@fcc.gov<oetech@fcc.gov>

收件人: eric.yang@bctc-lab.com.cn<eric.yang@bctc-lab.com.cn>

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Inquiry on 03/13/2018 :

Inquiry:

Here is a coupling surface area was 49cm² and maximum output power 10W wireless charger . It is a desktop device . please review whether the test method is correct or not. If ok, we will submit to a TCB to apply for FCC certificate.Thanks

FCC response on 03/14/2018

The wireless power transfer procedures for this PAG is described in the knowledge data base, KDB publication 680106. Please answer questions i. through ix.

Publication

Number: 680106

Rule Parts: 18, 15B

Publication Date: 05/30/2013

Keyword: Part 15B, Part 18, Wireless Chargers, Inductive Chargers, Wireless Charging Pads

First Category: Equipment Authorization Process *

Second Category: General [Equipment Authorization Process]

Question: What rules regulate short distance wireless inductive coupled charging pads or charging devices?

Answer:

Wireless power transfer devices operating at frequencies above 9 kHz are intentional radiators and are subject to either Part 15 and/or Part 18 of the FCC rules. The specific applicable rule part depends on how the device operates, and if there is communication between the charger and device being charged.

Devices specifically intended for use for wireless power transfer, or inductive charging, require FCC guidance for frequency exposure review. This includes Part 18 devices. The responsible party or manufacturer must seek guidance from the FCC by submitting a wireless charging application inquiry at <http://www.fcc.gov/labhelp>.

The initial inquiry shall include the following:

- i. In the "Subject" line, fill the field as follows: Seeking guidance for wireless chargers;
- ii. complete product description, including coil diameters , number of turns and current;
- iii. the rule part(s) the device will operate in and the reasoning for rule part(s);
- iv. planned equipment authorization procedure;
- v. drawings, illustrations;
- vi. frequencies;

- vii. radiated power;
- viii. operating configurations
- ix. conditions for human exposure [1], and

Intentional radiators transmitting information must be certified under the appropriate Part 15 rules and will generally require an equipment certification, except for special types of devices meeting requirements under Section 15.201 which are subject to verification. A charger may operate in two different modes: charging and communications. It is possible for the device to be approved under Part 18 for the charging mode and Part 15 for the communications mode, if it can be shown that (1) the device complies with the relevant rule parts and (2) the functions are independent. Part 18 consumer devices can be either certified or approved under DoC, only after the required SAR guidance has been given (as noted above ". . . by submitting an inquiry at www.fcc.gov/labhelp" . . .) and the necessary test requirements have been completed.

Finally, it is possible that the power charging function could be approved under Part 15 rather than Part 18 if the device meets all of the requirements of the appropriate Part 15 rule.

Attachment [680106 D01 RF Exposure Wireless Charging Apps v02](#) provides general guidance on the information necessary to determine RF exposure evaluation and compliance requirements when submitting a wireless charging application inquiry.

Attachment List:

[680106 D01 RF Exposure Wireless Charging Apps v02](#)

Please provide an RF exposure attachment to this KDB number 747837

The RF exposure enclosed file should have an electric and magnetic field measurements of the device using a Narda EHP-200A electric and magnetic field probe - analyzer from 9 KHz - 30 MHz or similar probe. There should be 5 measurements, top and 4 sides. For each measurement location there should be measurements made at 1%, 50%, and 99% battery levels. Also, please provide photos at each of the 5 locations. Be sure that the markings on the ruler are legible in the photographs.

---Reply from Customer on 03/27/2018---

Dear Sir/Madam:

Please check whether the attached report is incorrect. If there is no problem, we will apply for the certificate. Thank you very much.

FCC response on 03/28/2018

The item subject to PAG has been reviewed. The TCB may proceed with the grant of the application pending its review of all non-PAG items.

Attachment Details:

Test Reprot,User Manaul

EMF-Test Report

User Manaul

Do not reply to this message. Please select the [Reply to an Inquiry Response](#) link from the OET Inquiry System to add any additional information pertaining to this inquiry.