

Yang, Viola-xx (Shenzhen)

From: oetech@fcc.gov
Sent: 2018年4月6日星期五 1:16
To: Geng, Peter (Shenzhen)
Subject: Response to Inquiry to FCC (Tracking Number 210796)

Inquiry on 03/21/2018 :

Inquiry:

Dear Sir/Madam,

This is an engineer from SGS shenzhen China. I have a wireless charger to apply certificate.

It is a QI wireless charger. According to the specification of the device, it support the power transfer only without any other types of data transfer. It is ok to certify under part 18 per KDB 680106 D01 Apps v02.

It's specification as below:

operation frequency: 111.9-184.6 kHz

three coil maximum diameters:80mm

each turns number: 9

max. output power 10W

Input: DC 5V/2A, DC 9V/1.8A

Output: 10W max.

An RF exposure evaluation, internal and external photos and user manual are submitted. please help to check the report is acceptable or not? thanks.

---Reply from Customer on 03/22/2018---

Dear Sir/Madam,

May I have your comment asap? thanks.

---Reply from Customer on 03/26/2018---

Dear Sir/Madam,

It is urgent. May I have your comment asap? thanks.

---Reply from Customer on 04/02/2018---

Dear Sir/Madam,

It is urgent. I am looking forward to you. Thanks.

FCC response on 04/03/2018

In order to assist us with providing adequate guidance ,description of specific device in which the wireless device is intended to be used is required, please provide us with the following information

1) Provide a detailed operational description of the device including all modes of operation and use condition, internal and external photos showing the location of the antennas, and the form size
signal characteristics, message types and channels

Please provide detail information of the RF exposure analysis the coil design to simulate the actual coil. all . line feed of coil including z-component H-fields considered, watt, voltage or ampere driven, calibration for custom H-field probe.

Provide description on the description on the message exchanges between the transmitter and the receiver and clarify if single channel is used for both transmitting and receiving the messages

Provide information on how the IEC code validation procedures were properly followed noting that the 1-g SAR validation does follow procedures for all occasion.

Per KDN 680106, If your device does not meet the approval requirement in a-f for item 2

" Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation "

. You need to apply the item 3 requirement which states as follows:

"In all other cases, unless excluded by 2) above, an RF exposure evaluation report must be reviewed and accepted through a KDB or PBA inquiry to enable authorization of the equipment. When evaluation is required to show compliance; for example, using field strength, power density, SAR measurements or computational modeling etc., the specific authorization requirements will be determined based on the results of the RF exposure evaluation."

insure that your tabulated data are complete. Need to provide results at different charging conditions at 10%, 50% and 90. The provided 70% charging condition is not acceptable

Provide conducted power test results for all modes,. Is the device battery operated?

---Reply from Customer on 04/04/2018---

Dear Sir/Madam,

- 1) Tests in 0%, 50% and 100% charging condition were conducted accurately. But the test setup indicated the test configuration only. Please do not focus on the displaying in setup. Thanks very much.
- 2) The device can work in idle mode, charging mode with an fixed environment.
- 3) Internal and external photos of the device has submitted. Please check it and you can find the inductive coil which is the antenna
- 4) The device can transfer energy only without any other type of signal. During each transmission, it can transmit in a single channel
- 5) I have noted the KDB680106 and noted that the device cannot meet all items from a) to f), so an exposure report has submitted for review
- 6) The device does not contain a built-in battery

according to my response above, please help to give your comment again. thanks.

FCC response on 04/05/2018

Test proposal has been accepted and approved.

Attachment Details:

[RF exposure test report](#)

[user manual](#)

[internal and external photos](#)

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.