

Li, Jacky-sl (Shenzhen)

From: oetech@fcc.gov
Sent: 2018年8月30日星期四 21:05
To: Chen, Bill (Shenzhen)
Subject: Response to Inquiry to FCC (Tracking Number 257922)

Inquiry on 08/16/2018 :

Inquiry:

Dear Officer:

At first, this is a Qi wireless charger, Qi version: 1.2.4, with Input: 5V/2A, 9V/1.67A, Output: 7.5W/10W, which install in vehicle.

As we know, 680106 D01 RF Exposure Wireless Charging Apps v03 replaces 680106 D01 RF Exposure Wireless Charging Apps v02. Updates to section 5 on equipment authorization considerations. And most of wireless charger don't need send inquire to FCC once the equipment can fulfil chapter 5 b) of this KDB except for the vehicle wireless charger that 15cm RF exposure evaluation identified therein is not directly applicable. As this EUT is designed for usage in a vehicle, so shall we follow the new KDB like others table use wireless charger to evaluate the RF exposure in Mobile conditions and completed under maximum loading conditions? Or some others condition is needed?

Thanks
for your attention and look forward to your reply.

Best
Regards!

Bill Chen

FCC response on 08/23/2018

Thank you for your inquiry.

Please address the below items:

1. Does the DUT battery chargeable?
2. Based on what you have determined the 6.5cm?
3. Where in the vehicle DUT will be installed? Will it be always installed a particular location?
4. Vehicles come in different shape and size, then how would you ensure the minimum distance?
5. Who will install the DUT, use/operator or will be installed professionally?
6. It appears from the form factor and size of the device, the DUT will be considered as a portable. For portable device, refer to 680106 D01 RF Exposure Wireless Charging App v03, section 3()(d) as stated below:

d) Portable exposure conditions from 100 kHz to 6 GHz are determined with respect to SAR requirements. Existing SAR systems and test procedures are generally intended for measurements above 100 MHz. While numerical modeling can be an alternative, the constraints of substantial computational resources at low frequencies could introduce further limitations. Under these circumstances, including operations below 100 kHz, the Commission may consider a combination of analytical analysis, field strength, radiated and conducted power measurements, in conjunction with some limited numerical modeling to assess compliance.

---Reply from Customer on 08/24/2018---

Dear Sir/Madam:

Please refer to the following reply:

1. Does the DUT battery chargeable?

Not rechargeable battery

2. Based on what you have determined the 6.5cm?

Add test determined by 4cm

3. Where in the vehicle DUT will be installed? Will it be always installed a particular location?

Installed in select the suction mount or air vent clip

4. Vehicles come in different shape and size, then how would you ensure the minimum distance?

Test at the smallest distance, The nearest distance from the probe to the sample is 4cm

5. Who will install the DUT, use/operator or will be installed professionally?

Users to install

6. It appears from the form factor and size of the device, the DUT will be considered as a portable. For portable device, refer to 680106 D01 RF Exposure Wireless Charging App v03, section 3()(d) as stated below:

d) Portable exposure conditions from 100 kHz to 6 GHz are determined with respect to SAR requirements. Existing SAR systems and test procedures are generally intended for measurements above 100 MHz. While numerical modeling can be an alternative, the constraints of substantial computational resources at low frequencies could introduce further limitations. Under these circumstances, including operations below 100 kHz, the Commission may consider a combination of analytical analysis, field strength, radiated and conducted power measurements, in conjunction with some limited numerical modeling to assess compliance.

Sample is mobile device? is not portable device.

FCC response on 08/30/2018

Thank you for your response.

You may proceed.

However, for future reference, please see below:

1. Regarding your response to #6, please refer again to the statement you copied and pasted. It doesn't say that it only applies to the mobile devices. Please see the last sentence of the statement: "Under these circumstances, including operations below 100 kHz, the Commission may consider a combination of analytical analysis, field strength, radiated and conducted power measurements, in conjunction with some limited numerical modeling to assess compliance." For portable devices, the last sentence in the statement applies, i.e. combination ofas described above even for the low frequencies.
2. To distinguish between portable and mobile, §2.1091 and §2.1093 respectively apply even for low frequencies.

Attachment Details:

[appendixA](#)

[Block diagram](#)

[RF exposure setup](#)

[SCH](#)

[Test report](#)

[MPE report](#)

[operating](#)

[specification](#)

[user manual](#)

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