

Response to Inquiry to FCC (Tracking Number 978421)

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发给 FCCPBA@agc-cert.com

2020-12-26 06:40 [隐藏信息](#)

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收件人: FCCPBA@agc-cert.com <FCCPBA@agc-cert.com>

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大小: 8 KB

Inquiry on 11/26/2020 :

Inquiry:

Dear FCC

This is a a portable Bluetooth speaker that need to test SAR. The working frequency is 2402-248MHz. Peak power :12dBm, Duty Cycle?77%, Antenna Gain: 4.53dBi. Please refer the attachment for more details. Could you help us to suggest a test procedure kindly?

---Reply from Customer on 11/26/2020---

Dear FCC

This is a a portable Bluetooth speaker that need to test SAR. The working frequency is 2402-2480 MHz. Peak power :12dBm, Duty Cycle77%, Antenna Gain: 4.53dBi. Please refer the attachment for more details. Could you help us to suggest a test procedure kindly?

FCC response on 11/26/2020

In the photo, particularly the top right one, is that cable a modification in order to enable a Bluetooth test mode?

---Reply from Customer on 11/26/2020---

Dear FCC:

Please see attach file.

Thanks!

FCC response on 11/27/2020

Concerning the cable, though it is preferable to test devices completely free of physical modification, sometimes slight modifications are necessary to create a test mode. Use caution when measuring in the area as to not affect the SAR measurements.

Measurements should be made on all sides of the device where the Bluetooth antenna is located 2.5 cm or closer. Test separation distance from the flat bottom phantom should be ≤ 5 mm to support compliance.

Looking at your page 2 of attachment Antenna Position Relative EUT, is the Bluetooth antenna closest to the top? (Underneath the handle?)

---Reply from Customer on 11/29/2020---

Dear FCC:

Yes, the Bluetooth antenna is closest to the top and is located below the handle.

---Reply from Customer on 12/04/2020---

Dear FCC

Is there any reply?

FCC response on 12/04/2020

For this particular case, we would recommend to physically remove the handle and test at 0 mm separation from the flat bottom phantom. The handle creates a physical obstruction, but since it is plastic and contains no electronics, so its removal should not have an impact on measured SAR values.

---Reply from Customer on 12/23/2020---

Dear FCC

The manufacturer has changed the position of the Bluetooth antenna. The Bluetooth antenna is located inside the handle rather than under it. Please see attach file.

Could you suggest a new test program for us?

FCC response on 12/25/2020

You could try one of three approaches.

- 1) Carefully remove the handle as to not break the antenna or antenna cable. Place the radio underneath the flat bottom phantom with the handle flat against the phantom (antenna side facing).
- 2) Carefully remove the handle and remove the antenna from the handle. Use caution to not break the antenna or connecting cable. Place the antenna against the bottom of the flat bottom phantom. (This approach is most conservative.)
- 3) Carefully remove the handle and remove the antenna from the handle. Face the antenna against the bottom of the phantom. You can use a spacing between the antenna and the phantom which would represent the spacing that would have been provided by the handle.

Take good pictures of the test setup and good documentation.

Attachment Details:

[photo](#)

[photo and antenna position](#)

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