


RF Exposure Evaluation Report

Product : EMEET Adapter A350
Trade mark :  EMEET
Model/Type reference : E5106,E510601,E510602,
E510603,E510604,E510605,
E510606
Serial Number : N/A
Report Number : EED32P80286502
FCC ID : 2ALCN-E5106
Date of Issue : Mar. 31, 2023
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093(portable devices)
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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Prepared by:

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Check No.: 5651060323

2 Version

Version No.	Date	Description
00	Mar. 31, 2023	Original

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4 General Information

4.1 Client Information

Applicant:	SHENZHEN EMEET TECHNOLOGY CO., LTD.
Address of Applicant:	Unit 2C, Building A6, Guangming Science Park, Guanguang Road 3009, Guangming District, Shenzhen, China
Manufacturer:	SHENZHEN EMEET TECHNOLOGY CO., LTD.
Address of Manufacturer:	Unit 2C, Building A6, Guangming Science Park, Guanguang Road 3009, Guangming District, Shenzhen, China
Factory:	SHENZHEN EMEET INTELLIGENT TECHNOLOGY CO., LTD
Address of Factory:	A401, B401, Building B5, Guangming Science Park, Guanguang Road, Fenghuang community, Fenghuang Street, Guangming District, Shenzhen, China

4.2 General Description of EUT

Product Name:	EMEET Adapter A350
Model No.:	E5106,E510601,E510602,E510603,E510604,E510605,E510606
Test Model No.:	E5106
Trade mark:	 EMEET

4.3 Product Specification subjective to this standard

Frequency Range:	BLE 1Mbps: 2402 MHz to 2480 MHz; BLE 2Mbps: 2404 MHz to 2478 MHz;	
Modulation Type:	GFSK	
Test Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)	
Test Software of EUT:	Airoha.Tool.Kit.exe (manufacturer declare)	
Antenna Type:	Internal Antenna	
Antenna Gain:	4.61Bi	
Power Supply:	USB port:	DC 5.0V
Test Voltage:	DC 5.0V	
Sample Received Date:	Mar. 07, 2023	
Sample tested Date:	Mar. 07, 2023 to Mar. 26, 2023	

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: E5106,E510601,E510602,E510603,E510604,E510605,E510606

Only the model E5106 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation**For Stand alone:****For BLE**

Frequency (MHz)	Separation distance(cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.50	2.57	4.61	5.03	3.184	4.452	PASS
2404	0.50	2.57	4.61	5.03	3.184	4.450	PASS

Note:

①EIRP=conducted power+antenna gain;

②ERP=EIRP-2.15

③The test data please refer to the report of EED32P80286501, and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

***** End of Report *****