


RF Exposure Evaluation Report

Product : EMEET Adapter A351 / EMEET Adapter A300/EMEET Adapter A200

Trade mark :  EMEET

Model/Type reference : E5107,E510701,E510702,E510703,E510704,E510705, E510706,eMeet Adapter A300,eMeet Adapter A200

Serial Number : N/A

Report Number : EED32P80288204

FCC ID : 2ALCN-E5107

Date of Issue : Apr. 27, 2023

Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01

Test result : PASS

Prepared for:

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Apr. 27, 2023

Check No.:5651060323

1 Version

Version No.	Date	Description
00	Apr. 27, 2023	Original

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3 General Information

3.1 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

3.2 General Description of EUT

Product Name:	EMEET Adapter A351/EMEET Adapter A300/EMEET Adapter A200
Model No.:	E5107, E510701, E510702, E510703, E510704, E510705, E510706, eMeet Adapter A300,eMeet Adapter A200
Test Model No.:	E5107
Trade Mark:	

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK	
Test Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)	
Test Software of EUT:	FCC_assist_1.0.2.2.exe	
Antenna Type:	Onboard IFA antenna	
Antenna Gain:	1.90dBi	
Power Supply:	USB port:	DC 5.0V
Test Voltage:	DC 5.0V	
Sample Received Date:	Mar. 23, 2023	
Sample tested Date:	Mar. 23, 2023 - Mar. 27, 2023	
Remark:	<p>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.</p> <p>Model No.: E5107, E510701, E510702, E510703, E510704, E510705, E510706,eMeet Adapter A300,eMeet Adapter A200</p> <p>They have the same hardware and software, only different in model name for marketing requirements, the main test model name is E5107, all parameters remain the same.</p>	

3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

For Bluetooth classic

Frequency (MHz)	Separation distance(cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2480	0.5	3.14	1.96	2.89	1.945	2.717	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15
- ③ The test data please refer to the report of EED32P80288203, 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 ***