

RF Exposure Evaluation Report

Product : EMEET Mic
Trade mark :  EMEET
Model/Type reference : E7103, E710301, E710302,
E710303, E710305
Serial Number : N/A
Report Number : EED32O81229007
FCC ID : 2ALCN-E7103
Date of Issue : Oct. 18, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF
Exposure Guidance v06
Test result : PASS

Prepared for:

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2 Version

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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 Mic
Model No.(EUT):	E7103, E710301, E710302, E710303, E710305
Test Model No.:	E7103
Trade Mark:	

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Test Power Grade:	Default
Test Software of EUT:	BT FCC Tool
Antenna Type:	FPC Antenna
Antenna Gain:	1.13dBi
Power Supply:	DC 3.7V
Max Conducted Peak Output Power:	2.74dBm
	The Max Conducted Peak Output Power data refer to the report EED32O81229005 Appendix BT Classic
Sample Received Date:	Aug. 11, 2022
Sample tested Date:	Aug. 11, 2022 to Sep. 27, 2022
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: E7103, E710301, E710302, E710303, E710305 Only the model E7103 was tested. E7103, E710301, E710302, E710303, E710305 have the same hardware,software,electrical circuit design, layout, components used and internal wiring. These models are mainly used for the division of sales areas,so only different in 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 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

1) For Bluetooth Classic Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.74	2±1	3	1.995
Middle(2441MHz)	1.73	2±1	3	1.995
Highest(2480MHz)	1.3	2±1	3	1.995

$\pi/4$ DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.58	2±1	3	1.995
Middle(2441MHz)	1.55	2±1	3	1.995
Highest(2480MHz)	0.94	0±1	1	1.259

8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.16	2±1	3	1.995
Middle(2441MHz)	1.18	2±1	3	1.995
Highest(2480MHz)	0.6	0±1	1	1.259

Worst case is : GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	2.74	2±1	3	1.995	0.628	3.0
Middle (2441MHz)	1.73	2±1	3	1.995	0.628	
Highest (2480MHz)	1.3	2±1	3	1.995	0.628	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EEED32O81229005
Appendix BT Classic

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 ***