

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

RF Exposure evaluation

Compiled by

(position+printed name+signature) .: File administrators Zoey Cao

Supervised by

(position+printed name+signature) . : Project Engineer Ace Chai

Approved by

(position+printed name+signature) .: RF Manager Eric Wang

Date of issue Jul. 28, 2025

Testing Laboratory Name: Shenzhen CTA Testing Technology Co., Ltd.

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: Shenzhen Xeme Communication Co., Ltd

Room 802, Building 2, Jiuzhou Industrial Park Factory, No. 10, No. 19

District, Shenzhen, China

47CFR §1.1310

Standard 47CFR §2.1093

KDB447498 D01 General RF Exposure Guidance v06

Shenzhen CTA Testing Technology Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purpses as long as the Shenzhen CTA Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen CTA Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description.....: XEME Bluetooth Remote Control

Trade Mark..... XEME

Manufacturer.....: Shenzhen Xeme Communication Co., Ltd.

Model/Type reference: XM-BT-26M

Listed Models XM-BT-26M-01, XM-BT-26M-02, XM-BT-26M-03, XM-BT-26M-04,

XM-BT-26M-05

Ratings...... 3.0V —— 0.5A (2X1.5VAAA dry batteries)

Result.....: PASS

Shenzhen CTA Testing Technology Co., Ltd.

Report No.: CTA25072100502 Page 2 of 8

TEST REPORT

Equipment under Test : XEME Bluetooth Remote Control

Model /Type : XM-BT-26M

Listed Models : XM-BT-26M-01, XM-BT-26M-02, XM-BT-26M-03, XM-BT-26M-04,

XM-BT-26M-05

The PCB board, circuit, structure and internal of these models are the Model difference

same, Only model number and colour is different for these model.

Applicant : Shenzhen Xeme Communication Co., Ltd

Address : Room 802, Building 2, Jiuzhou Industrial Park Factory, No. 10, No. 19

Tongguan Road, Yutang Community, Yutang Street, Guangming

District, Shenzhen, China

Manufacturer : Shenzhen Xeme Communication Co., Ltd

Address : Room 802, Building 2, Jiuzhou Industrial Park Factory, No. 10, No. 19

Tongguan Road, Yutang Community, Yutang Street, Guangming

District, Shenzhen, China

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1		51ANDARD54
2	SUMM	IARY5
	2.1	1ARY
	2.2	Product Description5
	2.3	Special Accessories 5
	2.4	Modifications 5
3	TEST	ENVIRONMENT 6
	3.1	ENVIRONMENT6 Address of the test laboratory6
	3.2	Test Facility 6
	3.3	Statement of the measurement uncertainty6
4	Test li	mit
	4.1	Requirement7
	4.2	Conducted Power Results7
	4.3	Manufacturing tolerance7
	4.4	Evaluation Result8
	4.5	Simultaneous Transmission for SAR Exclusion8
5	Conclu	usion8
		CTA'
		usion
		CTATESTING CTATESTING

Report No.: CTA25072100502 Page 4 of 8

1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

Report No.: CTA25072100502 Page 5 of 8

<u>SUMMARY</u>

General Remarks

Date of receipt of test sample	. 4	Jul. 21, 2025	NG
	G		GTIN
Testing commenced on	:	Jul. 21, 2025	TES
		CIP	
Testing concluded on	:	Jul. 28, 2025	

2.2 Product Description

3	pto nanan		CIA	
Testing concluded on	:	Jul. 28, 2025	(SAIN)	
2.2 Product Descrip	tion			CIN CIN
Product Name:	XEME	Bluetooth Remote	Control	
Model/Type reference:	XM-BT	Г-26М		
Power supply:	3.0V =	0.5A (2X1.5VA	AA dry batteries)	
Hardware version:	V1.0		TESTIN	. C.
Software version:	V1.0	G/F		ESTING
Testing sample ID:		50721005-1# (Engii 50721005-2# (Norm		CTATA
Bluetooth BLE		,	•	
Supported type:	Blueto	oth low Energy		(D. 13)
Modulation:	GFSK			
Operation frequency:	2402M	MHz to 2480MHz		
Channel number:	40			
Channel separation:	2 MHz	-ING		
Antenna type:	PCB A	ntenna		
Antenna gain:	0.66 dl	Bi		:NG

Special Accessories

	2.3 Spec	ial Accessor	ries				
	The following	is the EUT test	t of the auxiliary	equipment provided by the	e laboratory:		TES
	Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by	CTA
ESTING	/	/	/	/	/	/	123000
CTATL	2.4 Modi	fications	ING				-

Modifications

No modifications were implemented to meet testing criteria.

Shenzhen CTA Testing Technology Co., Ltd.

Report No.: CTA25072100502 Page 6 of 8

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

	Test	Range	Measurement Uncertainty	Notes	
	Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
	Radiated Emission	30~1000MHz	4.06 dB	(1)	
	Radiated Emission	1~18GHz	5.14 dB	(1)	
	Radiated Emission	18-40GHz	5.38 dB	(1)	ING
	Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	STIN
	Output Peak power	30MHz~18GHz	0.55 dB	(1)	LE-
	Power spectral density	/	0.57 dB	(1)	
	Spectrum bandwidth	/	1.1%	(1)	
	Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
	Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
	Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
	Time	1	±2%	(1)	
•			CTATEST		

Report No.: CTA25072100502 Page 7 of 8

Test limit

4.1 Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 " [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

4.2 **Conducted Power Results**

Туре	Channel	Output power (dBm)	
CIA	00	-3.06	
GFSK 1Mbps	19	-3.27	TING
	39	-3.22	51
4.3 Manufacturing tolerand	ce	CAN CALL	-

Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up		
BLE	-3.06	-3.0±1		
	CTATESTING	CTATESTING		

Page 8 of 8 Report No.: CTA25072100502

Evaluation Result

En C	Evaluation Results Evaluation Results f (GHz) Antenna Distance (mm)			RF output power (including tune-up		SAR Test Exclusion Threshold	SAR Test Exclusion Threshold	SAR Test Exclusion
			, ,	dBm	rance) mW		Limit	
	BLE	2.480	5	-2.0	0.6310	0.1987	3.0	Yes
CTATESTING	4.5 Simult	aneous	Transmi	ssion f	or SAR	Exclusion		

Simultaneous Transmission for SAR Exclusion 4.5

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01v06