RF Exposure MPE

Report Reference No.....:	**CTA25101401802**
FCC ID..... :	**2BS2P-C5**
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 .....:	Nov. 06, 2025
Testing Laboratory Name.....:	**Shenzhen CTA Testing Technology Co., Ltd.**
Address.....:	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name.....:	**Foshan Sesame Open Door Technology Co., LTD**
Address.....:	111, 1st Floor, No. 25-7, Zone C, Southwest Park, Sanshui Central Science and Technology Industrial Zone, Foshan City, China
Standard.....:	**47CFR §1.1310** **47CFR §2.1091** **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 .....:	**Hidden recorder**
Trade Mark	N/A
Manufacturer .....:	Shenzhen FenghangIndustrial Co., Ltd
Model/Type reference .....:	C5
Listed Models .....:	Refer to page 2
Rating .....:	Input: 5V⎓ 1.0A Battery: 3.7V 200mAh 0.74Wh
Result .....:	**PASS**

TEST REPORT

Equipment under Test	:	Hidden recorder
Model /Type	:	C5
Listed Models	:	C6, C7, C8, C9, A5, A6, A7, A8, A9, Z5, Z6, Z7, Z8, Z9, M5, M6, M7, M8, M9, C5pro, C6pro, C7pro, C8pro, C9pro, A5pro, A6pro, A7pro, A8pro, A9pro, Z5pro, Z6pro, Z7pro, Z8pro, Z9pro, M5pro, M6pro, M7pro, M8peo, M9pro
Model difference	:	The PCB board, circuit, structure and internal of these models are the same, Only model number and colour is different for these model.
Applicant	:	**Foshan Sesame Open Door Technology Co., LTD**
Address	:	111, 1st Floor, No. 25-7, Zone C, Southwest Park, Sanshui Central Science and Technology Industrial Zone, Foshan City, China
Manufacturer	:	**Shenzhen FenghangIndustrial Co., Ltd**
Address	:	303, Building C, Huafeng International Robot Fosun Industrial Park, Hangcheng Avenue, Guxing Community, Xixiang Street, Bao'an 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 TEST STANDARDS 4
2 SUMMARY 5
2.1 General Remarks 5
2.2 Product Description 5
2.3 Special Accessories 5
2.4 Modifications 5
3 TEST ENVIRONMENT 6
3.1 Address of the test laboratory 6
3.2 Test Facility 6
3.3 Statement of the measurement uncertainty 6
4 Test limit 7
4.1 Requirement 7
4.2 MPE Calculation Method 7
4.3 Conducted Power Results 8
4.4 Manufacturing tolerance 8
4.5 Standalone MPE Result 8
4.6 Simultaneous Transmission for MPE Result 8
5 Conclusion 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 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Oct. 14, 2025
Testing commenced on	:	Oct. 14, 2025
Testing concluded on	:	Nov. 06, 2025

2.2 Product Description

Product Name:	Hidden recorder
Model/Type reference:	C5
Power supply:	Input: 5V⎓ 1.0A Battery: 3.7V 200mAh 0.74Wh
Charger information:	Input: 12/24Vdc, Output: 5.0Vdc, 2.5A
Hardware version:	V1.0
Software version:	V1.0
Testing sample ID：	CTA251014018-1# (Engineer sample) CTA251014018-2# (Normal sample)
2.4GWIFI :	
Supported type:	802.11b/802.11g/802.11n(HT20)/ 802.11n(HT40)
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20)/ 802.11n(HT40): OFDM
Operation frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40):7
Channel separation:	5MHz
Antenna type:	PIFA antenna
Antenna gain:	2.24 dBi

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

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, Bao'an 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.

ISED#: 27890 CAB identifier: CN0127
Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

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)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
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	/	±2%	(1)

4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density

4.2 MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

$S=PG/4\pi R^2$
Where: S=power density
P=power input to antenna
G=power gain of the antenna in the direction of interest relative to an isotropic radiator
R=distance to the center of radiation of the antenna

4.3 Conducted Power Results

Type	Channel	Output power PK (dBm)
802.11b	01	14.35
	06	14.79
	11	14.74
802.11g	01	13.17
	06	13.67
	11	13.48
802.11n(HT20)	01	13.52
	06	14.06
	11	13.75
802.11n(HT40)	03	12.84
	06	13.12
	09	12.87

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
2.4GWIFI	14.79	14.0±1

4.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
2.4GWIFI	15.0	31.6228	2.24	1.6749	0.0105	1.0000

Remark:
1. Output power (Peak) including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

4.6 Simultaneous Transmission for MPE Result

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

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