

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200463604

> Page: 1 of 8

RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2412004636AT

Applicant: **Edifier International Limited**

Address of Applicant: P.O. Box 6264 General Post Office, Hong Kong

Manufacturer: Beijing Edifier Technology Co., Ltd.

Address of Manufacturer: 815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road,

Haidian District, 100080 Beijing, P.R. China

Equipment Under Test (EUT):

EUT Name: Wireless Stereo Headset with Microphone

Model No.: EDF200120 Trade Mark: **EDIFIER** FCC ID: Z9G-EDF271

47 CFR PART 1, Subpart I, Section 1.1310 Standard(s):

47 CFR PART 2, Subpart J, Section 2.1093

KDB447498D01 General RF Exposure Guidance v06

2024-12-10 Date of Receipt:

Date of Evaluation: 2024-12-12 to 2024-12-19

2024-12-22 Date of Issue:

Pass* **Evaluation Result:**





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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200463604

Page: 2 of 8

	Revision Record			
Version	Chapter	Date	Modifier	Remark
01		2024-12-22		Original

Authorized for issue by:		
	Brie Chan	
	Bill Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200463604

Page: 3 of 8

Contents

		Pa	ge
1	Cov	er Page	1
2	Con	tents	3
3	Gen	eral Information	4
	3.1	General Description of E.U.T.	4
	3.2	Details of E.U.T.	
	3.3	Separation Distance	
	3.4	Test Location	
	3.5	Test Facility	
	3.6	Deviation from Standards	6
	3.7	Abnormalities from Standard Conditions	6
4	Tech	nnical Requirements Specification	7
	4.1	RF Exposure Evaluation	7
	4.1.1	Limit & Test Method	7
		2 Conclusion	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200463604

Page: 4 of 8

3 General Information

3.1 General Description of E.U.T.

	□ Portable device □
Product Type:	☐ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

	Power supply:	Lithium Ion Battery: DC 3.8V 350mAh 1.33Wh rechargeable battery which charged by USB port
	Cable(s):	Type C cable:30cm unshielded
	RF cable loss:	0.5dB
ВТ		
	Operation Frequency:	2402MHz to 2480MHz
	Bluetooth Version:	V5.4 Dual mode
	Modulation Type:	GFSK, pi/4DQPSK
	Number of Channels:	79
	Channel Spacing:	1MHz
	Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
	Antenna Type:	PCB Antenna
	Antenna Gain:	0.23dBi
BLE		
	Operation Frequency:	2402MHz to 2480MHz
	Bluetooth Version:	V5.4 Dual mode
	Modulation Type:	GFSK
	Number of Channels:	40
	Channel Spacing:	2MHz
	Rate data:	1Mbps
	Antenna Type:	PCB Antenna
	Antenna Gain:	0.23dBi

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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200463604

Page: 5 of 8

3.3 Separation Distance

Minimum test separation distance: 5mm

Remark: This 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.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200463604

Page: 6 of 8

3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200463604

Page: 7 of 8

4 Technical Requirements Specification

4.1 RF Exposure Evaluation

4.1.1 Limit & Test Method

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 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 calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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

4.1.2 Conclusion

For BT:

The Max. power (including tune-up tolerance) is 4.24 dBm on the highest channe 2.48 GHz (*) 4.24 dBm logarithmic terms convert to numeric result is nearly 2.65 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

General RF Exposure = (2.65 mW / 5 mm) x $\sqrt{2.48}$ GHz = 0.83

(1)

SAR requirement:

 $S = 3.0 \tag{2}$

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR241200463602



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200463604

> Page: 8 of 8

For BLE:

-2.88 dBm on the highest channe 2.48 GHz (*) The Max. power (including tune-up tolerance) is -2.88 dBm logarithmic terms convert to numeric result is nearly 0.52 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [Vf(GHz)] General RF Exposure = (0.52 mW / 5 mm) x $\sqrt{2.48}$ GHz = 0.16

(1)

SAR requirement:

S = 3.0(2)

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR241200463603

-- End of the Report--



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