

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800270903

Page: 1 of 8

RF Exposure Report

SZCR2308002709AT **Application No.:** Applicant: **Avantronics Limited**

Address of Applicant: The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District,

Shenzhen, 518002, China

Manufacturer: Avantronics Limited

The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Address of Manufacturer:

Shenzhen, 518002, China

Factory: Shenzhen Feng Jing Sheng Electronics Technology Co., Ltd.

A3-5 Layer, XinGuiYuan DaFu Ind, ZhangGe Village GuanLan, LongHua New Address of Factory:

District, Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: Slumber

Model No.: SLP-370, SLP-360, SLP-380

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Avantree FCC ID: WJ5-SLP-370

Standards: FCC Rules 47 CFR §2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2023-08-22

Date of Test: 2023-08-23 to 2023-09-12

Date of Issue: 2023-09-16

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**



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In the configuration tested, the EUT complied with the standards specified above.



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2 **Version**

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-09-16		Original

Authorized for issue by:		
	Bris Cherr	
	Bill Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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General Information

4.1 General Description of E.U.T.

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

4.2 Details of EUT

Power supply:	AC 230V 50Hz
Cable(s):	USB cable:150cm unshielded
	AUX in cable:55cm unshielded
Bluetooth Version:	V5.3 Classic
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, Pi/4DQPSK, 8DPSK modulation
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Bulit-in Antenna
Antenna Gain:	5dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark:

Model No.: SLP-370, SLP-360, SLP-380

Only the model SLP-370 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on color, brand name, screen printing and packaging.



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4.3 Separation Distance

Minimum test separation distance:

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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4.4 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

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.5 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.

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.



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Technical Requirements Specification 5

5.1 RF Exposure Evaluation

5.1.1 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)] · $[\sqrt{f(GHz)}] \le 3.0$ 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 ≤ 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

5.1.2 Conclusion

The Max. power (including tune-up tolerance) is 4.11 dBm on the highest channe 2.48 GHz (*) 4.11 dBm logarithmic terms convert to numeric result is nearly 2.58 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 = (2.58 mW / 5 mm) x $\sqrt{2.48}$ GHz = 0.81 (1)

SAR requirement:

S = 3.0(2)

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR230800270902



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EUT Constructional Details (EUT Photos) 6

Refer to appendix - external and internal photos for SZCR2308002709AT.

- End of the Report -



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