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RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2108020908AT (SGS SZ No.: T52110280193EM)			
Applicant:	NSI PRODUCTS (HK) LIMITED			
Address of Applicant:	FLAT A, 1/F BLOCK 4, GOLDEN DRAGON INDUSTRIAL CENTRE, 182- 190 TAI LIN PAI ROAD, KWAI CHUNG, N.T., HONG KONG			
Manufacturer:	NSI PRODUCTS (HK) LIMITED			
Address of Manufacturer:	FLAT A, 1/F BLOCK 4, GOLDEN DRAGON INDUSTRIAL CENTRE, 182- 190 TAI LIN PAI ROAD, KWAI CHUNG, N.T., HONG KONG			
Equipment Under Test (EUT):				
EUT Name:	SPYBOTS ROBOEAR			
Item No.:	68403			
Country of Origin:	CHINA			
Country of Destination:	US			
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310			
	47 CFR PART 2, Subpart J, Section 2.1093			
	KDB447498D01 General RF Exposure Guidance v06			
Date of Receipt:	2021-07-30			
Date of Evaluation:	2021-08-03 to 2021-08-25			
Date of Issue:	2021-09-07			
Evaluation Result:	Pass*			

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

oke. Jun

Kobe Jian EMC Laboratory Manager



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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021-09-07		Original	

Authorized for issue by		
Tested By	CQ-V/U Curry Wu/Project Engineer	
	Riday Lin	
Reviewed By	1000	
	Ricky Liu/Reviewer	



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Evaluation Summary 2

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 **General Information**

4.1 Details of E.U.T.

Power supply:
Frequency Range:
Modulation Type:
Emission Type:
Antenna Type:
Antenna Gain:

Input 4.5Vdc via 'AAA' battery*3 462.5625MHz FM F3E Inseparable Helical Antenna 2.3dBi

4.2 Evaluating Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.



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4.3 Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

Abnormalities from Standard Conditions 4.5

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 \leq 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 \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

5.1.2 Conclusion

The Max. power (including ANT max. gair 13.3 dBm on the highest chanr 0.463 GHz (*) 13.30 dBm logarithmic terms convert to numeric result is nearly 21.38 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distanc [√f(GHz)]

General RF Exposure = (21.38 mW / 5 mm) x √0.4625 GHz = 2.91	(1)
SAR requirement:	
<i>S</i> = <i>3</i> . <i>0</i>	(2)
(1) < (2)	

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210802090801



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EUT Constructional Details (EUT Photos) 6

Refer to appendix - external and internal photos for GZCR2108020908AT

- End of the Report -



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