

TEST REPORT

Applicant: North American Blue Tiger Company, LLC

Address: 2403 W Stan Schlueter Loop #690160, Killeen, TX

76549

Equipment Type: Blue Tiger Solare

Model Name: 17-160300

Brand Name: BLUE TIGER

FCC ID: 2ASKG00002

Test Standard: 47 CFR Part 2.1093 KDB 447498 D01 v06

Test Date: Apr. 21, 2022 - Jun. 08, 2022

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ISSUED BY:

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Page No. 1 / 10

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Revision History

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TABLE OF CONTENTS

1	GENER	AL INFORMATION	. 3
	1.1	Identification of the Testing Laboratory	3
	1.2	Identification of the Responsible Testing Location	3
2	PRODL	JCT INFORMATION	. 4
	2.1	Applicant Information	. 4
	2.2	Manufacturer Information	. 4
	2.3	Factory Information	. 4
	2.4	General Description for Equipment under Test (EUT)	. 4
	2.5	Ancillary Equipment	. 4
	2.6	Technical Information	. 5
3	SUMMA	ARY OF TEST RESULT	. 6
	3.1	Test Standards	. 6
4	DEVICE	E CATEGORY AND LEVELS LIMITS	. 7
5	ASSES	SMENT RESULT	. 9
	5.1	Output Power	. 9
	5.2	Turn-up power	. 9
	5.3	RF Exposure Evaluation Result	. 9
	5.4	Conclusion	. 9



GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.		
Addraga	Block B, 1/F, Baisha Science and Technology Park, Shahe West		
Address	Road, Nanshan District, ShenZhen, GuangDong Province, China		
Phone Number	+86 755 6685 0100		

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.		
A ddraga	Block B, 1/F, Baisha Science and Technology Park, Shahe West		
Address	Road, Nanshan District, ShenZhen, GuangDong Province, China		
Accreditation	The laboratory is a testing organization accredited by FCC as a		
Certificate	accredited testing laboratory. The designation number is CN1196.		
	All measurement facilities used to collect the measurement data are		
Description	located at Block B, 1/F, Baisha Science and Technology Park, Shahe		
Description	West Road, Nanshan District, ShenZhen, GuangDong Province,		
	China		



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	North American Blue Tiger Company, LLC	
Address	2403 W Stan Schlueter Loop #690160, Killeen, TX 76549	

2.2 Manufacturer Information

Manufacturer	North American Blue Tiger Company, LLC	
Address	2403 W Stan Schlueter Loop #690160, Killeen, TX 76549	

2.3 Factory Information

Factory	OSM HUIZHOU LIMITED		
Address	A02, Taixiang Road, High-techIndustrial Park, Sandong Town,		
Address	Huicheng District, Huizhou City, Guangdong Province, China		

2.4 General Description for Equipment under Test (EUT)

EUT Name	Blue Tiger Solare
Model Name Under Test	17-160300
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	R3.0A
Software Version	2.12.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

	Battery		
	Brand Name	VDL	
Ancillary Equipment 1	Model No.	532530	
	Serial No.	N/A	
	Capacity	400 mAh	
	Rated Voltage	3.7 V	
	Limit Charge Voltage	4.2 V	

Report No.: BL-SZ2240647-701



2.6 Technical Information

Network and Wireless	Bluetooth (BR+EDR+BLE)
connectivity	NFC

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	Bluetooth		
Frequency Range	Bluetooth	2400 ~ 2483.5 MHz	
Antenna Type	Bluetooth	PCB Antenna	
Exposure Category	General Population/Uncontrolled Exposure		
EUT Stage	Portable Device		

Report No.: BL-SZ2240647-701



3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	KDB 447498 D01 v06	KDB 447498 General RF Exposure Guidance D01 v06



4 DEVICE CATEGORY AND LEVELS LIMITS

Portable Derives:

CFR Title 47 §2.1093(b)

(b) For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

FCC KDB 447498 D01 General RF Exposure Guidance v06 Limit

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. 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.

a) 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)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR Where

- o f (GHz) is the RF channel transmit frequency in GHz
- o Power and distance are rounded to the nearest mW and mm before calculation
- o 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.

- b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):
 - 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance
 - 50 mm) · (f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
 - 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50



mm) \cdot 10]} mW, for > 1500 MHz and \leq 6 GHz

- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
 - 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]
 - 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1)

for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

3) SAR measurement procedures are not established below 100 MHz.



ASSESSMENT RESULT

5.1 Output Power

Bluetooth					
Mode	BR+EDR			BLE	
Mode	GFSK	π/4-DQPSK	8-DPSK	GFSK (1Mbps)	GFSK (2Mbps)
Average Power (dBm)	2.27	1.80	1.75	1.98	2.11

5.2 Turn-up power

Mode	Conducted Power Range (dBm)		
Bluetooth	1.00-2.50		

5.3 RF Exposure Evaluation Result

Mode	Tune-up limit power (dBm)	Distance (mm)	Calculation Frequency (MHz)	Calculation Results	Threshold Value	Verdict
Bluetooth	2.5	5	2480	0.56	3.0	Compliance

5.4 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.



Page No. 10 / 10

Statement

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