

TEST REPORT

Application No.: BTEK230919011AE
Applicant: ZHONGSHAN SMART OPTOELECTRONICS TECHNOLOGY CO., LTD
Address of Applicant: 4501 and 4502B, Xinxing Science Park, No. 33 Xingteng Road, Tanzhou Town, Zhongshan City, Guangdong Province, China
Manufacturer: ZHONGSHAN SMART OPTOELECTRONICS TECHNOLOGY CO., LTD
Address of Manufacturer: 4501 and 4502B, Xinxing Science Park, No. 33 Xingteng Road, Tanzhou Town, Zhongshan City, Guangdong Province, China
Factory: ZHONGSHAN SMART OPTOELECTRONICS TECHNOLOGY CO., LTD
Address of Factory: 4501 and 4502B, Xinxing Science Park, No. 33 Xingteng Road, Tanzhou Town, Zhongshan City, Guangdong Province, China


Equipment Under Test (EUT):

EUT Name: 16-line laser level
Model No.: W02CG, W03CG, W03DG, W04CG, W02CR, W03CR, W03DR, W04CR, HP-W02CG, HP-W03CG, HP-W03DG, HP-W04CG, HP-W02CR, HP-W03CR, HP-W03DR, HP-W04CR
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: NA
Standard(s) : 47 CFR Part 2 Subpart J Section 2.1093
Date of Receipt: 2023-09-19
Date of Test: 2023-09-20 to 2023-10-16
Date of Issue: 2023-10-16

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.


Damon Su
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-10-16		Original

Authorized for issue by:			
			
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	Carl Yang /Project Engineer		
			
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	Keven Tan /Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power supply: The EUT received DC 11.1V by rechargeable Li-ion Battery(2600mAh) and recharged by usb port.

Cable(s): /

Frequency Range: 2402MHz to 2480MHz

Bluetooth Version: version 5.0

Modulation Type: GFSK

Number of Channels: 40

Antenna Type: PCB Antenna

Antenna Gain: -0.58dBi

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

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.			



3.3 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.,

A5&A6, Building B1&B2, No.45 Gangtuo Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518103

Tel:0755-2334 4200

Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



4 Test Requirement

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$

Where

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-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 according to 4.1 f) is applied to determine SAR test exclusion.

4.1 Assessment Result

Passed Not Applicable

Type	Frequency (MHz)	Conducted Power (dBm)	Maximum Tune-up (dBm)	Calculating data	Limit	Result
BLE	2402	1.81	2	0.49	3.0	Pass

Note: The exposure evaluation safety distance is 5mm.

- End of the Report -

