

EMC-TRF-03 Rev 1.0

Report No.: GZCR210802091203 Page: 1 of 7 FCC ID: 2ANDXTH10A

SAR Evaluation Report

Application No.:	GZCR2108020912ME	
Applicant:	Shenzhen Yolanda Technology Co., Ltd	
Address of Applicant:	Room 201, Jinfulai Building, No.49-1, Dabao Road, Dalang Area, Xinan Street, Baoan, Shenzhen, China	
Manufacturer:	Shenzhen Yolanda Technology Co., Ltd	
Address of Manufacturer:	Room 201, Jinfulai Building, No.49-1, Dabao Road, Dalang Area, Xinan Street, Baoan, Shenzhen, China	
Factory:	Shenzhen Yolanda Technology Co., Ltd	
Address of Factory:	Building A3, Abao Guangyao International Industrial Park, ShuiTian Fourth Industrial Zone, ShuiTian Community, ShiYan Street, BaoAn District, ShenZhen, China	
Equipment Under Test (EUT):		
EUT Name:	Infrared Thermometer	
Model No.:	TH10A, TH10B 🔹	
*	Please refer to section 4 of this report which indicates which model was actually tested and which were electrically identical.	
Trade Mark:	YOlanda	
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06	
Date of Receipt:	2021-08-15	
Date of Test:	2021-08-16 to 2021-08-31	
Date of Issue:	2021-09-01	
Test Result :	PASS*	

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

Foke. Jun

Kobe Jian EMC Laboratory Manager



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2 Version

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

Authorized for issue by		
	CJ Vu	
	Curry Wu/Project Engineer	—
	Ridey Liv	
	Ricky Liu/Reviewer	-



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General Information 4

4.1 General Description of EUT

Power supply:	DC 3V by 2*AAA battery
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.1
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data Rate:	1Mbps, 2Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

Declaration of EUT Family Grouping:

Model No.: TH10A, TH10B

Only the model TH10A was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on with forehead temperature measurement function and TH10B without forehead temperature measurement function.

4.2 Test 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



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4.3 Test Facility

• 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.





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4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

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 Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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)] \cdot [$\sqrt{f}(GHz)$] \leq 3.0 for 1-g SAR and \leq 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

5.1.3 EUT RF Exposure

The Max. power refer to manual is 6 dBm on the middle channel 2.48 GHz (*) 6.00 dBm logarithmic terms convert to numeric result is nearly 3.98 mW

According to the formula. calculate the test exclusion thresholds:

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

General RF Exposure = $(3.98 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 1.25$	(1)
SAR requirement:	
<i>S</i> = 3.0	(2)
(1) < (2)	

So the SAR report is not required.

(*) Max. power refer to Manual

- End of the Report -



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