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Hours 144

RF EXPOSURE REPORT

Report Reference No.....: TRE1605014402 R/C.....: 26610

FCC ID.....: WIGLEYU1

Applicant's name.....: SHENZHEN EVERBEST MACHINERY INDUSTRY CO.,LTD

Address....... 19th Building, 5th Region, Baiwangxin Industrial Park, Songbai Rd.,

Baimang, Xili, Nanshan, Shenzhen, China

Manufacturer...... SHENZHEN EVERBEST MACHINERY INDUSTRY CO.,LTD

Address...... 19th Building, 5th Region, Baiwangxin Industrial Park, Songbai Rd.,

Baimang, Xili, Nanshan, Shenzhen, China

Test item description: Non-Contact Forehead Infrared Thermometer

Trade Mark CEM

Model/Type reference...... LEYU1

Listed Model(s) LEYU2,LEYU3

Standard: FCC Per 47 CFR 2.1093(d)

Date of receipt of test sample............ May.25, 2016

Date of testing May.26, 2016- Jun.24,2016

Result.....: PASS

Compiled by

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Approved by

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Gongming, Shenzhen, China

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1. **SUMMARY**

1.1. Client Information

Applicant:	SHENZHEN EVERBEST MACHINERY INDUSTRY CO.,LTD				
Address:	19th Building, 5th Region, Baiwangxin Industrial Park,Songbai Rd., Baimang, Xili,Nanshan, Shenzhen, China				
Manufacturer:	SHENZHEN EVERBEST MACHINERY INDUSTRY CO.,LTD				
Address:	19th Building, 5th Region, Baiwangxin Industrial Park,Songbai Rd., Baimang, Xili,Nanshan, Shenzhen, China				

1.2. Product Description

Name of EUT	Non-Contact Forehead Infrared Thermometer	
Trade Mark:	CEM	
Model No.:	LEYU1	
Listed Model(s):	LEYU2,LEYU3	
Power supply:	DC 3.0V for internal battery	
Adapter information:	-	
Hardware version:	Leyu_4.0	
Software version:	V3.0	
Bluetooth		
Version:	Supported BT4.0+BLE	
Modulation:	GFSK	
Operation frequency: 2402MHz - 2480MHz		
Channel number: 40		
Channel separation:	2 MHz	
Antenna type: Internal Antenna		
Antenna gain:	0dBi	

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Operation Frequency List:

Bluetooth 4.0+BLE

Channel	Frequency (MHz)		
00	2402		
01	2404		
02	2408		
19	2440		
37	2476		
38	2478		
39	2480		

Note:In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

1.3. EUT operation mode

The EUT has been tested under test mode condition. The Applicant provides software to control the EUT for staying in continous transmitting and receiving mode for testing.

Test mode:GFSK Modulation

1.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- \bigcirc supplied by the lab

0	Power Cable	Length (m):	1
		Shield :	/
		Detachable :	1
0	Multimeter	Manufacturer:	/
		Model No. :	/

1.5. Modifications

No modifications were implemented to meet testing criteria.

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2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

2.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until December 31, 2016.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377A&5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec.03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

VCCI

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. h as been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

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2.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C		
lative Humidity:	30~60 %		
Air Pressure:	950~1050mba		

2.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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3. METHOD OF MEASUREMENT

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310,KDB447498 and §2.1093 RF exposure is required.

OET Bulletin 65 Supplement C [June 2001]: Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields

3.2. Limit

According to 447498 D01 General RF Exposure Guidance v06, exclusion threshold values at selected frequencies and distances table as following.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	SAR Test
1500	12	24	37	49	61	Exclusion
1900	11	22	33	44	54	Threshold
2450	10	19	29	38	48	(mW)
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

3.3. RF Exposure

TEST RESULS

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

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

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

The result is rounded to one decimal place for comparison

The Threshold values is 3.0

Bluetooth 4.0+BLE

Bidotooti 1:01BEE							
Modulation	Frequency (GHz)	Max.target power(dBm)	Max.target power(mW)	Test separation distances(mm)	Calculation Value	Threshold value	
GFSK	2480	-6.90	0.20	5	0.06	3	

4. CONCLUSION