

CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER: CGZ3170105-00010-EF



CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China







	TEST REPORT For FCC ID	
Report Reference No	CGZ3170105-00010-EF	
Date of issue	20 February 2017	
Testing Laboratory Name	CENTRE OF TESTING SERVICE CO.,	LTD.
Address	A101,No.65,Zhuji Highway,Tianhe D	District,Guangzhou, China
Testing location/ procedure	Full application of Harmonised standard	ds ■
	Partial application of Harmonised stand	ards □
	Other standard testing method \square	
Applicant's name	Shen Zhen E-care Electronics Co.,Ltd.	
Address	5/F, B Building, Fuali Industrial Zone, D Guangdong, China. P.C: 518101	istrict 28, Baoan, Shenzhen
Test specification		
Standard	47 CFR PART 15 OCT, 2016 , ANSI 0	C63.10-2013
Test Report Form No	CTSEMC-1.0	
TRF Originator	CENTRE OF TESTING SERVICE CO.,	LTD.
Master TRF	Dated 2009-01	
CENTRE OF TESTING SERV	ICE CO., LTD. All rights reserved.	
CENTRE OF TESTING SERV material. CENTRE OF TESTING	duced in whole or in part for non-commercial puliCE CO., LTD is acknowledged as copyright or NG SERVICE CO., LTD takes no responsibility areader's interpretation of the reproduced mater	wner and source of the for and will not assume liability
Test item description	: Digital Multifunction Oven Thermomete	r
Trade Mark	/	
Manufacturer	Shen Zhen E-care Electronics Co.,Ltd.	
Model/Type reference	TP-07S	
Ratings	Battery 1.5V*2	
Operating Frequency	433.99MHz	
Result	PASSED	
Compiled by:	Supervised by:	Approved by:

Kate zhang / Fileadministrators

Duke yang / Technique principal

Vincent yao / Manager

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471

Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn





FCCID -- TEST REPORT

Test Report No. : CGZ3170105-00010-EF

20 February 2017
Date of issue

Type / Model	TP-07S		
EUT	Digital Multifunction Oven Thermometer		
Applicant	Shen Zhen E-care Electronics Co.,Ltd.		
Address	5/F, B Building, Fuali Industrial Zone, District 28, Baoan, Shenzhen		
Address	Guangdong, China. P.C: 518101		
Telephone	+86-0755-33931980		
Fax	+86-0755-33931982		
Contact	1		
Manufacturer	Shen Zhen E-care Electronics Co.,Ltd.		
Address	5/F, B Building, Fuali Industrial Zone, District 28, Baoan, Shenzhen		
Address	Guangdong, China. P.C: 518101		
Telephone	+86-0755-33931980		
Fax	+86-0755-33931982		
Contact	1		
Factory	Shen Zhen E-care Electronics Co.,Ltd.		
Address	5/F, B Building, Fuali Industrial Zone, District 28, Baoan, Shenzhen		
Addi Coo	Guangdong, China. P.C: 518101		
Telephone	+86-0755-33931980		
Fax	+86-0755-33931982		
Contact	1		

Test Result according to the standards on page 3: PASSED

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

CENTRE OF TESTING SERVICE





TABLE OF CONTENTS

<u>Des</u>	scription	Page
1. TE	EST STANDARDS	5
2. SI	UMMARY	5
2.	.1 GENERAL REMARKS	5
	.2 FINAL ASSESSMENT	
3. E	QUIPMENT UNDER TEST	6
3.	.1 Power supply system utilised	6
3.	.2 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)	6
3.	.3 EUT OPERATION MODE	6
3.	.4 EUT CONFIGURATION	7
4. TE	EST ENVIRONMENT	8
4.	.1 Address of the test laboratory	8
	.2 TEST FACILITY	
4.	.3 Environmental conditions	8
4.	.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT	8
	.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY	
4.	.6 MEASUREMENT UNCERTAINTY	9
5. Sı	ummary of standards and results	9
5.	.1.DESCRIPTION OF STANDARDS AND RESULTS	9
6. Po	ower Line Conducted Emission Test	10
6.	.1.1 DESCRIPTION OF THE TEST LOCATION	10
	.1.2Test Equipment	
	.2.1 BLOCK DIAGRAM OF TEST SETUP	
	.2.2 DESCRIPTION OF THE TEST SET-UP	
	.2.3 LIMITS OF DISTURBANCE (CLASS B)	
6.	.2.4 POWER LINE CONDUCTED EMISSION TEST RESULTS	11
7. R	adiated disturbance (electric field)	12
	.1.Test Equipment	
	.2.BLOCK DIAGRAM OF TEST SETUP	
	.3.RADIATED EMISSION LIMIT STANDARD: FCC 15.231,209	
	.4.Test Procedure	
7.	.5.RADIATED EMISSION TEST RESULTS	14
8. 20	0 dB Bandwidth test	22
8.	.1. TEST EQUIPMENT	22
8	2 Test Information	22

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn



CT5

CENTRE OF	TEST	ING S	SER\	/ICE
8.3. TEST RE	SULTS			

9. Stop Transmitting Time Test	24
9.1. TEST EQUIPMENT	24
9.2. Test Information	24
9.1. TEST EQUIPMENT	24
10. Pulse Desensitization Correction Factor	26
10.1. TEST EQUIPMENT	26
10.2. Test Information	26
10.3. TEST RESULTS	26
11. Antenna Requirements	29
11.1 STANDARD APPLICABLE	29
11.2 Antenna Construction and Directional Gain	29
12 Manufacturor/ Approval holder Declaration	29

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn







1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2016
- ANSI C63.10-2013

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	05 January 2017		
Testing commenced on	05 January~20 February 2017		
Testing concluded on	20 February 2017		

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

ed	١.
	ed

- not fulfilled.

The equipment under test

- fulfils the FCC requirements cited on page 1.
- - does not fulfil the FCC requirements cited on page 1.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471

Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 5 of 29







3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ Battery 1.5V*2 □ Other

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions: For Radiation emission:

■ -TX +X position□ -TX +Y position

☐ −TX +Z position

Operation mode 1: TX +X position

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 6 of 29







3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	Digital Multifunction Oven Thermometer
Model Number	:	TP-07S
Operation frequency	:	433.99MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	Internal Antenna

3.4.2. Tested Supporting System Details

N/A

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 7 of 29

CENTRE OF TESTING SERVICE





4. TEST ENVIRONMENT

4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD. has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on 22 May, 2014.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE 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 No.791995, June 15, 2018.

4.3 Environmental conditions

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

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 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 CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS 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.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406 Complaint line: +86-20-85533471 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 8 of 29







4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~18GHz	±3.54dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item Standard Re			
Conducted Emission Test	ANSI C63.10-2013 FCC Part 15 C: 15.207	N/A	
Radiated Emission Test	ANSI C63.10-2013 FCC Part 15 C: 15.209 FCC Part 15 C: 15.231(e)	PASSED	
20 dB Bandwidth Test	ANSI C63.10-2013 FCC Part 15 C: 15.231(e)	PASSED	
Stop Transmitting Time Test	ANSI C63.10-2013 FCC Part 15 C: 15.231(e)	PASSED	
N/A is an abbreviation for Not Applicable.			

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 9 of 29





6. Power Line Conducted Emission Test

6.1.1 Description of the test location

Test location : Shielding Room

6.1.2Test Equipment

Conduc	ted Disturbance				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2016/10/24
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2016/10/24
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2016/10/24
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2016/10/24
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2016/10/24

6.2.1 Block Diagram of Test Setup

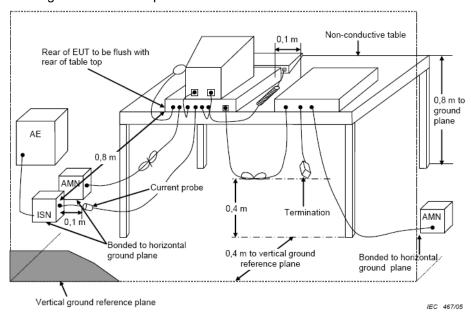
TX EUT

(EUT: Digital Multifunction Oven Thermometer)

6.2.2 Description of the test set-up

6.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded 6.1.2.2 Block Diagram of Test Setup



Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406 Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 10 of 29







6.2.3 Limits of disturbance (Class B)

		Maximum RF L	Maximum RF Line Voltage			
Frequ	uency	Quasi-Peak Level	Average Level			
		dB(μV)	dB(μV)			
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz	~ 5MHz	56	46			
5MHz	~ 30MHz	60	50			

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

6.2.4 Power Line Conducted Emission Test Results

Power supply by battery, Not applicable.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 11 of 29





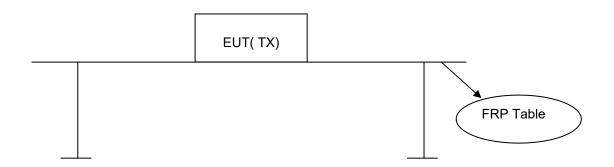
7. Radiated disturbance (electric field)

7.1.Test Equipment

Radia	Radiated disturbance (electric field)							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2016/10/24			
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2016/03/26			
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03/26			
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03/26			
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03/24			
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2016/10/24			

7.2.Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT:Digital Multifunction Oven Thermometer)

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

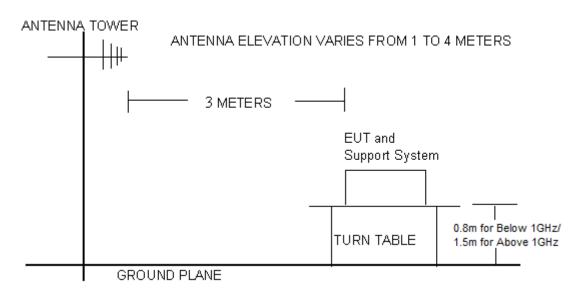
A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn





7.2.2 Anechoic Chamber Setup Diagram



7.3. Radiated Emission Limit Standard: FCC 15.231,209

FRE	FREQUENCY		DISTANCE	FIELD STREN	FIELD STRENGTHS LIMIT		
	MHz		Meters	μV/m	dB(μV)/m		
0.009	~	0.490	300	2400/F(KHz)			
0.490		1.705	30	24000/F(KHz)			
1.705		30	3	30			
30	~	88	3	100	40.0		
88	~	216	3	150	43.5		
216	~	960	3	200	46.0		
960	~	1000	3	500	54.0		
Δ1	hava 1	200	2	Other:74.0 dB(µ	ιV)/m (Peak)		
A	bove 10	JUU	3	54.0 dB(μV)/m (Average)			

Remark:

- (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter (1.5m for above 1GHz) high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406 Complaint line: +86-20-85533471 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 13 of 29







All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector be caluclated from peak value using duty cycle factor Both 30MHz to 1000MHz and above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX and RX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5. Radiated Emission Test Results

PASSED.

The frequency range from 9KHz to 30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 14 of 29







Test Mode:	TX –X Position Mode	Result:	■ - passed
Frequency range:	9KHz~30MHz		\square - not passed

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	
Rem	Remark:Other frequency no specific emission form the EUT (Margin > 20dB form the							
appli	cable Limit)							

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471

3 (32 lines) Fax: +86-20-38780406 20-85533471 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 15 of 29







Channel:	433.99 MHz (TX)	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz ~18GHz		'

EUT	Digital Multifunction Oven Thermometer		
Operating Condition	Battery 1.5V*2		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test Date:	05~09 January 2017		
Operator	Duke		
MODEL NO	TP-07S		

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dBµV)	Duty Cycle Correction Factor(dB)	Level (dBµV/m)	Limit (15.231e) (dBµV/m)	Margin (dB)	Det.
433.99	-9.15	79.04		69.89			Peak
433.99	-9.15	79.04	-10.11	59.78	72.87	-13.09	AVG

Note:Level=Reading+Factor. Margin= Level - Limit. Average Level=Peak level + Duty Factor

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

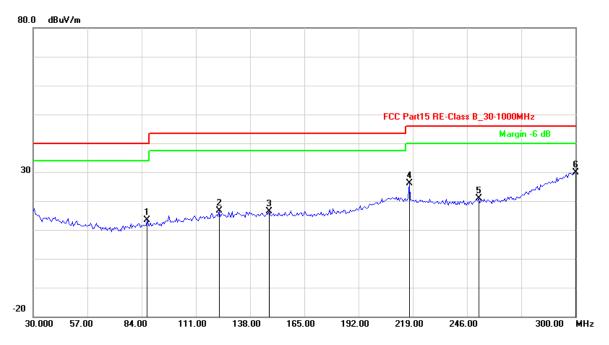
See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 16 of 29

CENTRE OF TESTING SERVICE







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	86.8136	-19.40	32.79	13.39	40.00	-26.61	QP
2	122.5250	-16.57	33.15	16.58	43.50	-26.92	QP
3	147.4148	-15.98	32.39	16.41	43.50	-27.09	QP
4	217.2144	-10.72	36.89	26.17	46.00	-19.83	QP
5	251.8437	-11.35	32.26	20.91	46.00	-25.09	QP
6	300.0000	-1.42	31.33	29.91	46.00	-16.09	QP

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

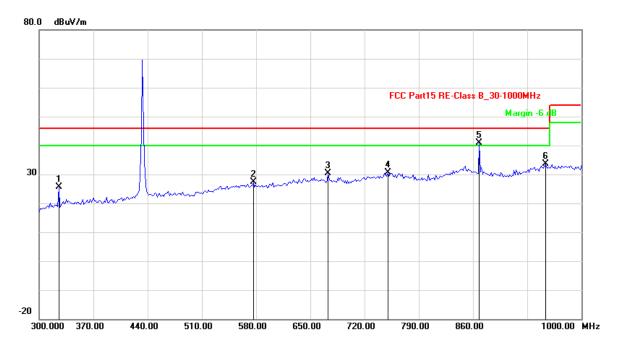
A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

CENTRE OF TESTING SERVICE







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	325.2505	-12.47	38.16	25.69	46.00	-20.31	QP
2	576.3527	-5.61	32.92	27.31	46.00	-18.69	QP
3	673.1462	-3.45	33.74	30.29	46.00	-15.71	QP
4	750.3006	-1.61	32.29	30.68	46.00	-15.32	QP
5	868.1362	-10.94	41.61	30.67	52.87	-22.20	AVG
6	953.7074	0.38	33.32	33.70	46.00	-12.30	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	1771.543	3.39	39.57	42.96	74.00	-31.04	peak
2	1771.543	3.39	26.39	29.78	54.00	-24.22	AVG
3	4725.451	5.01	37.56	42.57	74.00	-31.43	peak
4	4725.451	5.01	24.84	29.85	54.00	-24.15	AVG

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 18 of 29







Channel:	433.99 MHz (TX)	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHz ~18GHz		

EUT	Digital Multifunction Oven Thermometer
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	05 ~ 09 January 2017
Operator	Duke
MODEL NO	TP-07S

Fundamental and Harmonics Average Result							
Frequency (MHz)	Factor (dB/m)	Reading (dBµV)	Duty Cycle Correction Factor(dB)		Limit (15.231e) (dBµV/m)	Margin (dB)	Det.
433.99	-9.15	74.10		64.95			Peak
433.99	-9.15	74.10	-10.11	54.84	72.87	-18.03	AVG

Note:Level=Reading+Factor. Margin= Level - Limit . Average Level=Peak level + Duty Factor

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406 Complaint line: +86-20-85533471 E-mail: cts@cts-lab.com.cn

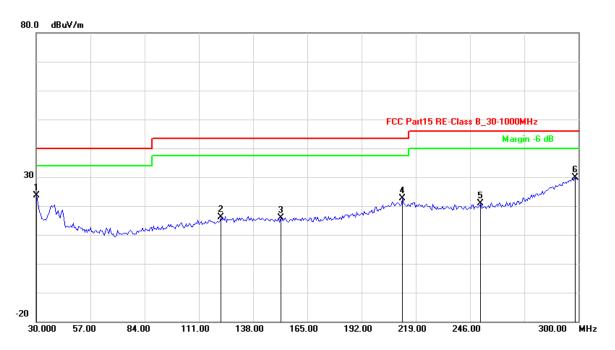
See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 19 of 29

CENTRE OF TESTING SERVICE







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	30.0000	-16.04	39.68	23.64	40.00	-16.36	QP
2	121.9839	-16.60	32.73	16.13	43.50	-27.37	QP
3	151.7434	-15.96	31.95	15.99	43.50	-27.51	QP
4	212.3446	-10.36	32.98	22.62	43.50	-20.88	QP
5	251.3026	-11.38	32.37	20.99	46.00	-25.01	QP
6	298.3767	-1.85	31.65	29.80	46.00	-16.20	QP

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

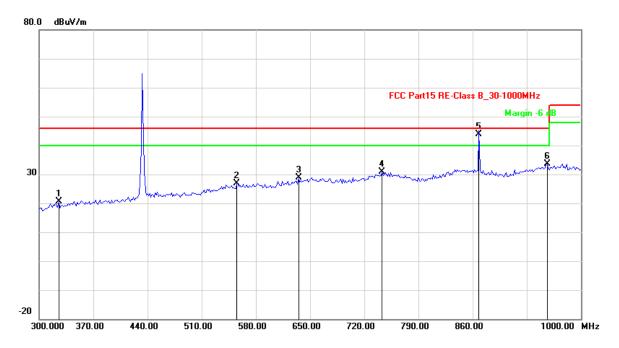
A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

CENTRE OF TESTING SERVICE







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	325.2505	-12.47	33.02	20.55	46.00	-25.45	QP
2	555.3106	-5.67	32.49	26.82	46.00	-19.18	QP
3	635.2705	-3.91	32.89	28.98	46.00	-17.02	QP
4	743.2866	-1.88	32.67	30.79	46.00	-15.21	QP
5	868.1363	-10.94	44.68	33.74	52.87	-19.13	AVG
6	956.5130	0.36	33.25	33.61	46.00	-12.39	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBµV/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.
1	1462.926	1.48	39.12	40.60	74.00	-33.40	peak
2	1462.926	1.48	26.37	27.85	54.00	-26.15	AVG
3	3557.114	3.47	36.33	39.80	74.00	-34.20	peak
4	3557.114	3.47	23.00	26.47	54.00	-27.53	AVG

Note:Level=Reading+Factor. Margin= Level-Limit.

Remark: Others frequency Radiated Emission level margin all >20dB of Limit.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 21 of 29





8.20 dB Bandwidth test

8.1. Test Equipment

20 dB l	20 dB Bandwidth test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2016/10/24			
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03/26			
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03/26			

8.2. Test Information

EUT:	Digital Multifunction Oven Thermometer
M/N:	TP-07S
Power supply:	Battery 1.5V*2
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231a
Test mode:	Transmitting
Test Frequency:	433.99 MHz
Test Date:	05~09 January 2017
Test By:	Duke

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 22 of 29



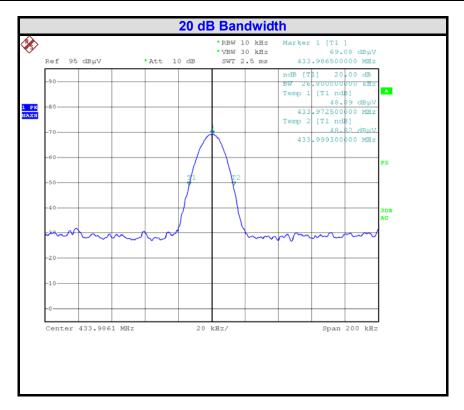




8.3. Test Results PASSED.

The testing data was attached in the next pages.

Frequency (MHz)	20 dB Bandwidth (KHz)	Limit(MHz): No wider than 0.25% of the center frequency	Conclusion
433.99	26.8KHz	433.99*0.25%=1.083MHz	PASSED



Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF





9. Stop Transmitting Time Test

9.1. Test Equipment

Band E	Band Edge Compliance test						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2016/10/24		
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03/26		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03/24		

9.2. Test Information

EUT:	Digital Multifunction Oven Thermometer
M/N:	TP-07S
Power supply:	Battery 1.5V*2
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231(e)
Test mode:	Transmitting
Test Frequency:	433.99 MHz
Test Date:	20 February 2017
Test By:	Duke

9.3. Test Results

PASSED.

The testing data was attached in the next pages.

Set the spectrum to zero span, activated the EUT automatically, And then, we could see the transmitting wave in the spectrum, when the time marker went to "1R", released the EUT, we could see the EUT stop transmitting.

Frequency (MHz)	Transmitting Time	Silent Period	Limit: the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10seconds	Conclusion
433.99	150.00ms	11.88s	>10s and 30 times of transmissions	PASSED

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

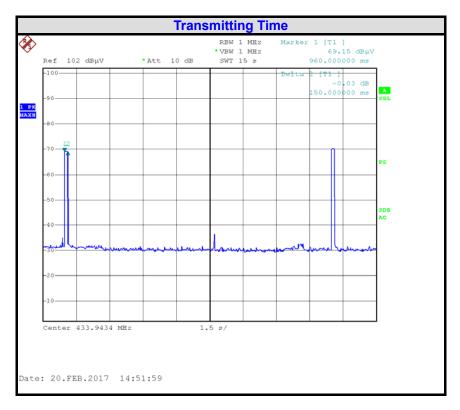
Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

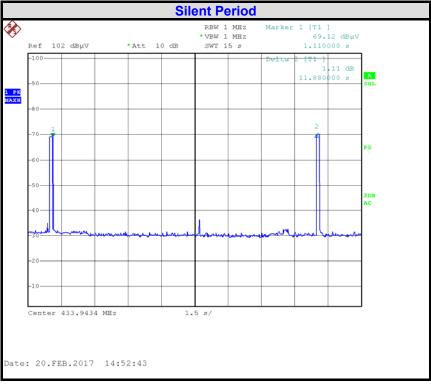
See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 24 of 29









Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn





10. Pulse Desensitization Correction Factor

10.1. Test Equipment

Band Edge Compliance test						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2016/10/24	
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03/24	
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03/24	

10.2. Test Information

EUT:	Digital Multifunction Oven Thermometer
M/N:	TP-07S
Power supply:	Battery 1.5V*2
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.231e
Test mode:	Transmitting
Test Frequency:	433.99 MHz
Test Date:	05~09 January 2017
Test By:	Duke

10.3. Test Results

PASSED.

The testing data was attached in the next pages.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

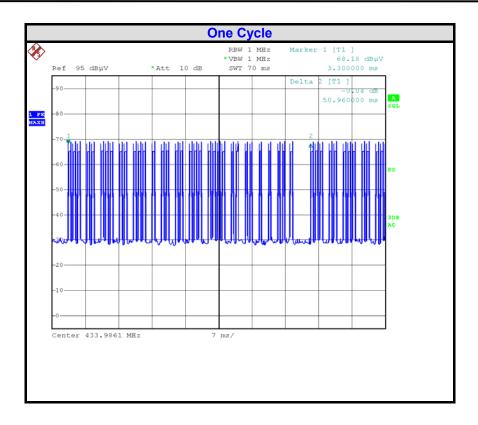
See Reverse For Terms And Conditions of Service

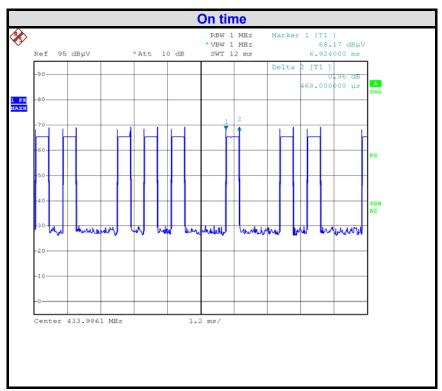
Report No.: CGZ3170105-00010-EF Page 26 of 29

CENTRE OF TESTING SERVICE









Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

CENTRE OF TESTING SERVICE





Test Data

Ton+off=50.96ms(which exceeds 0.1 seconds,and use the formula Ton/100ms to calculate the duty-cycle correction factor)

Ton=0.468 ms *34=15.91ms

Duty cycle Correction Factor=20*log(Ton/Ton+off)= 20Log 15.91ms/50.96ms =-10.11dB.

Pulse Desensitization Correction Factor (**PDCF**): (RBW>2/PW=2/0.000468s=4.3KHz)

PW=0.468 ms

T=50.96ms (which exceeds 0.1 seconds,and use the formula Ton/100ms to calculate the duty-cycle correction factor)

PDCFdB=20Log PW/T=20Log 0.468ms/50.96ms=-40.74dB.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 28 of 29

CENTRE OF TESTING SERVICE





11. Antenna Requirements

11.1 Standard Applicable

The EUT is Internal antenna with 0dBi, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

11.2 Antenna Construction and Directional Gain

Antenna type: Internal antenna

Antenna Gain: 0dBi

12. Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Product description: Digital Multifunction Oven Thermometer

Model name: TP-07S

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Complaint line: +86-20-85533471 Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CGZ3170105-00010-EF Page 29 of 29