Shenzhen Huatongwei International Inspection Co., Ltd.
Keji S,12th , Road, Hi-tech Industrial Park, Shenzhen, Guangdong, China
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TEST REPORT

FCC Rules and Regulations Part 18 2006

Industrial, scientific, and medical equipment – Limits and methods of measurement

Report Reference No. ..... :	**WE07050003**
Compiled by (position+printed name+signature) . :	File administrator May Hu
Supervised by (position+printed name+signature) . :	Technique principal Byron Lai
Approved by (position+printed name+signature) . :	Manager Jimmy Li
Date of issue ..... :	Jun 20, 2007
Testing Laboratory Name ..... :	**Shenzhen Huatongwei International Inspection Co., Ltd**
Address ..... :	Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Testing location/ procedure ..... :	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing methods ☐
Applicant's name ..... :	**Continental Conair Limited**
Address ..... :	35/F, Standard Chartered Tower, Millennium City 1, 388 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong
Test specification:	
Standard ..... :	**FCC Rules and Regulations Part 18 2006**
Non-standard test method……..:	/
Test Report Form No. ..... :	HTWEMCFCC_1A
TRF Originator ..... :	Shenzhen Huatongwei International Inspection Co., Ltd
Master TRF ..... :	Dated 2006-06

Test item description..... :	Induction Cooktop			
Trade Mark..... :	/			
Manufacturer..... :	Guangdong Elecpro Electric Appliance Holding Co., Ltd.			
Model/Type reference..... :	ICT100			
FCC ID ..... :	U43ICT100B			
Ratings..... :	120Vac	11.7A	60Hz	1400W
Result..... :	**Positive**			

EMC -- T E S T R E P O R T

Test Report No. :	WE07050003	Jun 20, 2007 Date of issue

Equipment under Test	:	Induction Cooktop
Type / Model	:	ICT100
FCC ID	:	U43ICT100B
Applicant	:	Continental Conair Limited
Address	:	35/F, Standard Chartered Tower, Millennium City 1, 388 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong
Manufacturer	:	Guangdong Elecpro Electric Appliance Holding Co., Ltd.
Address	:	Gongye Ave West, Songxia Industrial Park, Nanhai, Foshan, Guangdong, China

Test Result according to the standards on page 4:	**Positive**

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.

Contents

1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 18 2006 Industrial, scientific, and medical equipment – Limits and methods of measurement

2 . SUMMARY

2.1. General Remarks:

Date of receipt of test sample : Jun 01, 2007

Testing commenced on : Jun 08, 2007

Testing concluded on : Jun 19, 2007

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage : o 230V / 50 Hz o 115V / 60Hz
o 12 V DC o 24 V DC
■ Other (specified in blank below)

120V/60Hz

2.3. Short description of the Equipment under Test (EUT)

The EUT is Induction Cooktop

Series number: Prototype

2.4. EUT operation mode:

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

The tests are carried out with surge protective devices disconnected.

Test program (customer specific)

Emissions tests……..: According to FCC Rules and Regulations Part 18 2006 and MP-5 1986, searching for the highest disturbance.

2.5. EUT configuration:

(The CDF filled by the applicant can be viewed at the test laboratory.)

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

■ - supplied by the manufacturer

o - supplied by the lab

■ Power cord for EUT Length (m) : 1.2
Shield : Unshield
Detachable : Undetachable

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

3.2. 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/IEC 17025: 1999 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 2243.01

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: 1999 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is from Aug 24, 2005 to Sept 30, 2007

FCC-Registration No.: 662850

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 662850, Renewal date September 12, 2006.

IC-Registration No.: 5377

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. 5377 on November 28th, 2005.

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.

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: December 20, 2006. Valid time is until December 19, 2009.

Main 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.: C-2726. Date of Registration: December 20, 2006. Valid time is until December 19, 2009.

IECEE CB

Shenzhen Huatongwei International Inspection Co Ltd has been assessed and determined to fully comply with the requirements of ISO/IEC 17025: 2005-05, The Basic Rules, IECEE 01: 2006-10 and Rules of Procedure IECEE 02: 2006-10, and the relevant IECEE CB-Scheme Operational Documents.
It is therefore entitled to operate as a CB Testing Laboratory under the responsibility of Nemko A/S. This certificate remains valid until May 25th 2009 at which time it will be reissued by the IECEE Executive Secretary upon successful completion of the normally scheduled 3-year Reassessment Program administered by the IECEE CB Scheme.

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 19 April, 2007.

3.3. Environmental conditions

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

Temperature:	22-25 ° C
Humidity:	40-54 %
Atmospheric pressure:	950-1050mbar

3.4. Test Description

Emission Measurement		
Radiated Emission	FCC Rules and Regulations Part 18 2006	PASS
Conducted Disturbance	FCC Rules and Regulations Part 18 2006	PASS

Remark: The test result PASS and /or FAIL has no relationship with the measurement uncertainty.

3.5. 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 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	Range	Measurement Uncertainty	Notes
Radiated Emission	0.009~30MHz	3.89dB	(1)
Radiated Emission	30~1000MHz	4.22dB	(1)
Conducted Disturbance	0.009~30MHz	3.29dB	(1)

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

3.6. Equipments Used during the Test

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100038	2006/10
2	Artificial Mains	ROHDE & SCHWARZ	ESH2-Z5	100028	2006/10
3	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100044	2006/10
4	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2006/10

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Loop Antenna	ROHDE & SCHWARZ	HFH2-Z2	100020	2006/10
2	ULTRA-BROADBAND ANTENNA	ROHDE & SCHWARZ	HL562	100015	2006/10
3	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESI 26	100009	2006/10
4	RF TEST PANEL	ROHDE & SCHWARZ	TS / RSP	335015/ 0017	2006/10
5	TURNTABLE	ETS	2088	2149	2006/10
6	ANTENNA MAST	ETS	2075	2346	2006/10
7	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ESK1	N/A	2006/10

4. TEST CONDITIONS AND RESULTS

4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

4.1.1. Description of the test location

Test location: Shielded room No. 4

4.1.2. Limits of disturbance

Frequency (MHz)	Field Strengths Limits (μV/m)	Distance (Meters)	Field Strengths Limits (dBμV/m)
0.009 ~ 0.090	1500	30	73(10m)
0.090~30.000	300	30	59(10m)
30~1000	300	30	69(3m)

Note: (1) The E.U.T. is needed to measure up to the highest frequency 400MHz due to the operation frequency of the E.U.T. is 1.705~30MHz.

(2) The tighter limit shall apply at the edge between two frequency bands.

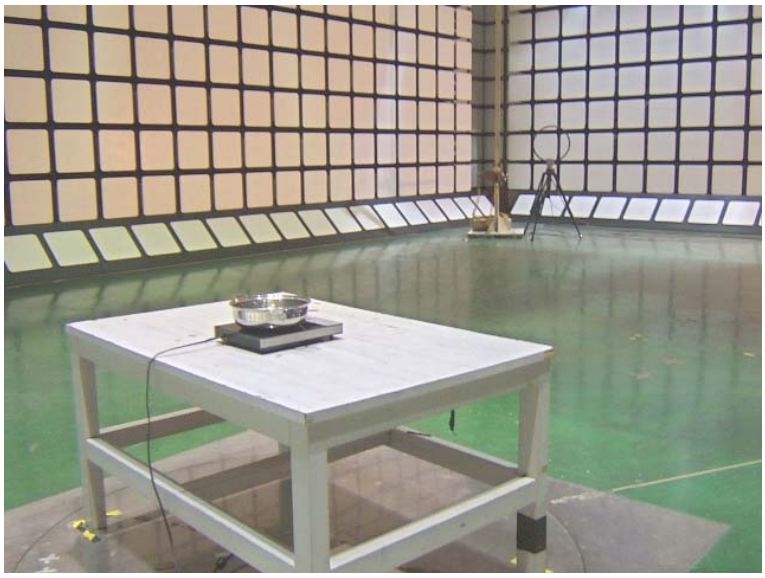
(3) Distance 10m refers to the frequency in 0.009~30MHz and 3m refers to the frequency in 30~1000MHz.

4.1.3. Description of the test set-up

4.1.3.1. Operating Condition

The EUT is set to work in water cooking mode during the test, and the results of the maximum emanation are recorded.

4.1.3.2. Photos of the test set-up



4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 200Hz

Frequency Range: 9KHz to 150KHz

Band Width: 9KHz

Frequency Range: 150KHz to 30MHz

Band Width: 120KHz

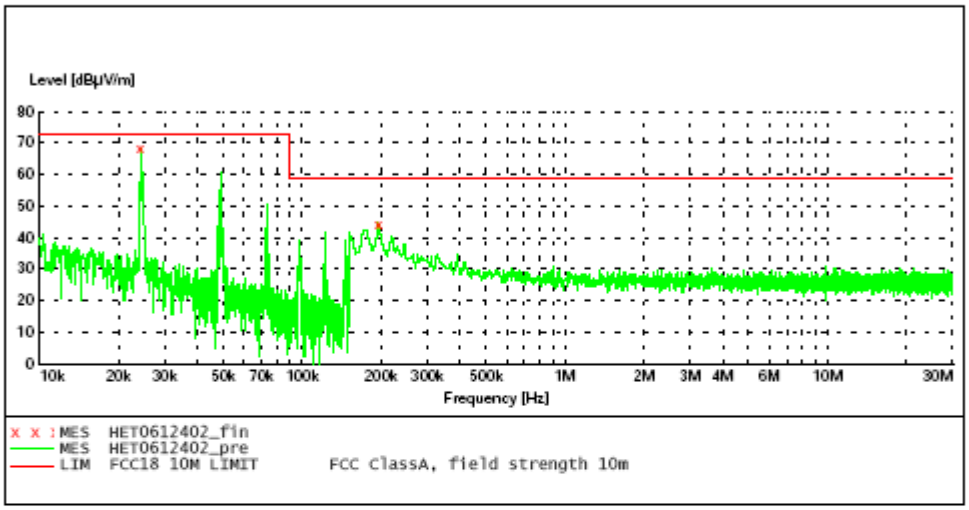
Frequency Range: 30MHz to 1000MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

Shenzhen HuaTongWei International Inspection CO.,LTD

Radiated Emission Test FCC PART18 B

EUT: Induction Cooktop M/N:ICT100
Manufacturer: Continental Conair Limited
Operating Condition: HIGH
Test Site: 3M CHAMBER
Operator: Byron
Test Specification: AC 120V/60Hz
Comment: Temp:26'c Humi: 51%
Start of Test: 6/12/07 / 9:07:33AM



MEASUREMENT RESULT: "HET0612402_fin "

6/12/07 9:10AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.024400	68.50	20.0	73.0	4.5	QP	100.0	0.00	HORIZONTAL
0.195000	44.40	20.0	59.0	14.6	QP	100.0	0.00	HORIZONTAL

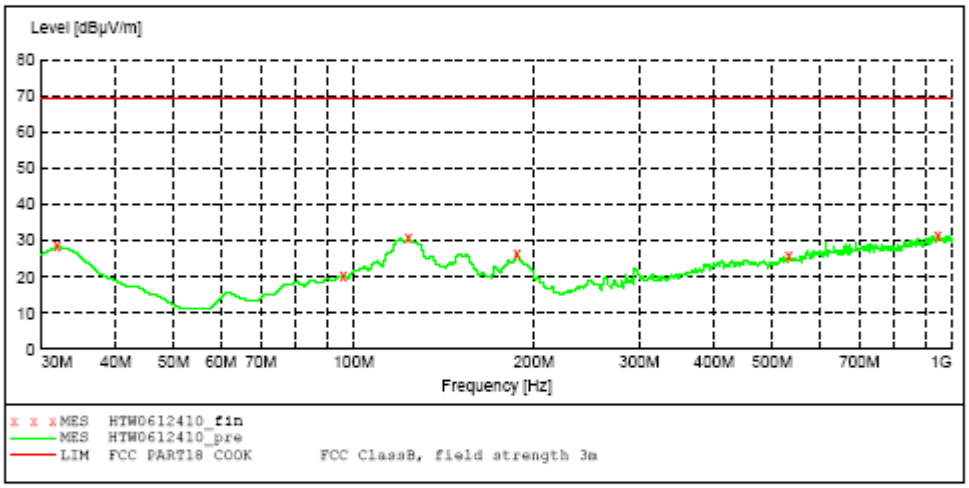
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION FCC PART18

```
EUT:                  Induction Cooktop M/N:ICT100
Manufacturer:         Continental Conair Limited
Operating Condition:  HIGH
Test Site:            3M CHAMBER
Operator:             Andy
Test Specification:   AC 120V/60Hz
Comment:
Start of Test:        6/12/07 / 9:24:03AM
```

SCAN TABLE: "test Field(30M-1G)OP"

```
  Short Description:              Field Strength(30M-1G)
  Start      Stop      Step       Detector  Meas.     IF      Transducer
  Frequency  Frequency Width                Time      Bandw.
  30.0 MHz   1.0 GHz   60.0 kHz   QuasiPeak 1.0 s     120 kHz HL562 07
```



MEASUREMENT RESULT: "HTW0612410_fin"

6/12/07 9:36AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.943888	28.50	20.1	69.5	41.0	QP	300.0	242.00	HORIZONTAL
96.092184	20.10	13.7	69.5	49.4	QP	300.0	86.00	HORIZONTAL
123.306613	30.80	12.7	69.5	38.7	QP	300.0	105.00	HORIZONTAL
187.454910	26.50	11.2	69.5	43.0	QP	100.0	142.00	HORIZONTAL
533.466934	25.70	21.1	69.5	43.8	QP	100.0	201.00	HORIZONTAL
947.515030	31.60	25.5	69.5	37.9	QP	100.0	5.00	HORIZONTAL

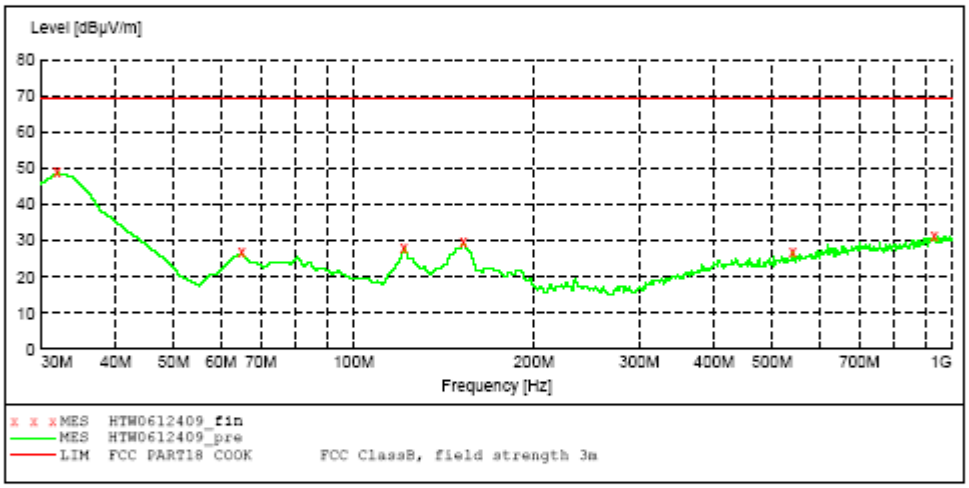
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION FCC PART18

```
EUT:                  Induction Cooktop M/N:ICT100
Manufacturer:         Continental Conair Limited
Operating Condition:  HIGH
Test Site:            3M CHAMBER
Operator:             Andy
Test Specification:   AC 120V/60Hz
Comment:
Start of Test:        6/12/07 / 9:10:05AM
```

SCAN TABLE: "test Field(30M-1G)OP"

```
  Short Description:              Field Strength(30M-1G)
  Start      Stop      Step       Detector  Meas.     IF      Transducer
  Frequency  Frequency Width                Time      Bandw.
  30.0 MHz   1.0 GHz   60.0 kHz   QuasiPeak 1.0 s     120 kHz HL562 07
```



MEASUREMENT RESULT: "HTW0612409_fin"

6/12/07 9:21AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.943888	48.90	20.1	69.5	20.6	QP	100.0	239.00	VERTICAL
64.989980	26.70	8.7	69.5	42.7	QP	100.0	277.00	VERTICAL
121.362725	28.10	12.9	69.5	41.4	QP	300.0	198.00	VERTICAL
152.464930	29.80	10.7	69.5	39.8	QP	100.0	67.00	VERTICAL
541.242485	26.70	21.3	69.5	42.8	QP	100.0	277.00	VERTICAL
933.907816	31.50	25.5	69.5	38.0	QP	300.0	276.00	VERTICAL

4.2. Conducted disturbance

For test instruments and accessories used see section 3.6.

4.2.1. Description of the test location

Test location: Shielded room No. 3

4.2.2. Limits of disturbance

Limit of Conducted Disturbance at Mains Ports

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.009～0.050	110	-
0.050～0.150	90-80	-
0.150～0.500	66 to 56	56 to 46
0.500～5.000	56	46
5.000～30.000	60	50

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

4.2.3. Description of the test set-up

4.2.3.1. Operating Condition

The EUT is set to work in water cooking mode during the test, and the results of the maximum emanation are recorded.

4.2.3.2. Photo of the test set-up

4.2.4. Test result

The requirements are **Fulfilled**

Band Width: 200Hz

Frequency Range: 9KHz to 150KHz

Band Width: 9KHz

Frequency Range: 150KHz to 30MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

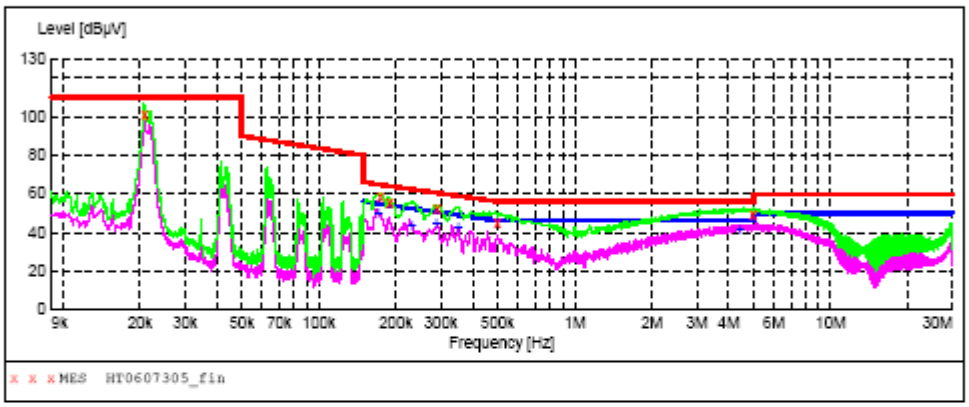
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART18 B

```
EUT:                    Induction Cooktop M/N:ICT100
Manufacturer:           Continental Conair Limited
Operating Condition:    HIGH
Test Site:              3# SHIELDED ROOM
Operator:               SAM
Test Specification:     AC 120V/60Hz
Comment:
Start of Test:          6/7/2007 / 11:44:41AM
```

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HT0607305_fin"

6/7/2007 11:49AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.020800	101.20	10.4	110	8.8	QP	L1	GND
0.174000	58.20	10.0	65	6.6	QP	L1	GND
0.189000	55.60	10.0	64	8.5	QP	L1	GND
0.291000	52.20	10.1	61	8.3	QP	L1	GND
0.498000	44.80	10.1	56	11.2	QP	L1	GND
4.976000	49.50	10.3	56	6.5	QP	L1	GND

MEASUREMENT RESULT: "HT0607305_fin2"

6/7/2007 11:49AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.171000	50.20	10.0	55	4.7	AV	L1	GND
0.231000	44.30	10.1	52	8.1	AV	L1	GND
0.288000	44.40	10.1	51	6.2	AV	L1	GND
0.351000	43.10	10.1	49	5.8	AV	L1	GND
4.436000	42.10	10.3	46	3.9	AV	L1	GND

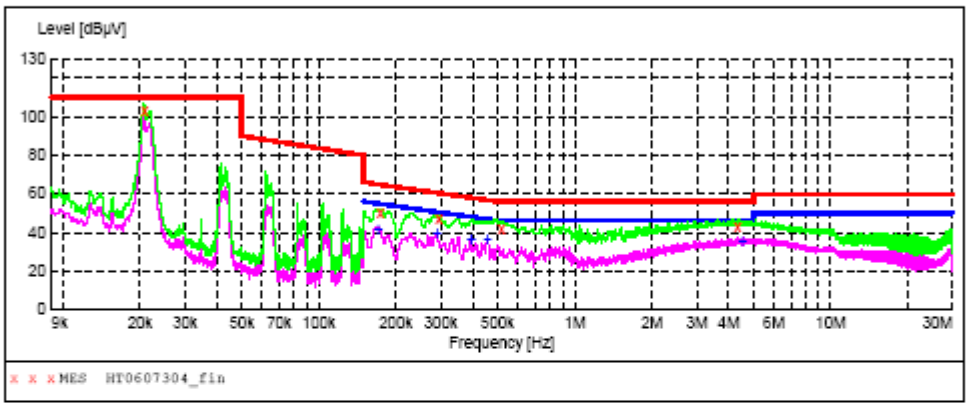
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART18 B

```
EUT:                  Induction Cooktop M/N:ICT100
Manufacturer:         Continental Conair Limited
Operating Condition:  HIGH
Test Site:            3# SHIELDED ROOM
Operator:             SAM
Test Specification:   AC 120V/60Hz
Comment:
Start of Test:        6/7/2007 / 11:39:43AM
```

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HT0607304_fin"

6/7/2007 11:44AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.020800	103.30	10.4	110	6.7	QP	N	GND
0.174000	50.30	10.0	65	14.5	QP	N	GND
0.294000	47.00	10.1	60	13.4	QP	N	GND
0.518000	41.60	10.1	56	14.4	QP	N	GND
4.334000	42.60	10.3	56	13.4	QP	N	GND

MEASUREMENT RESULT: "HT0607304_fin2"

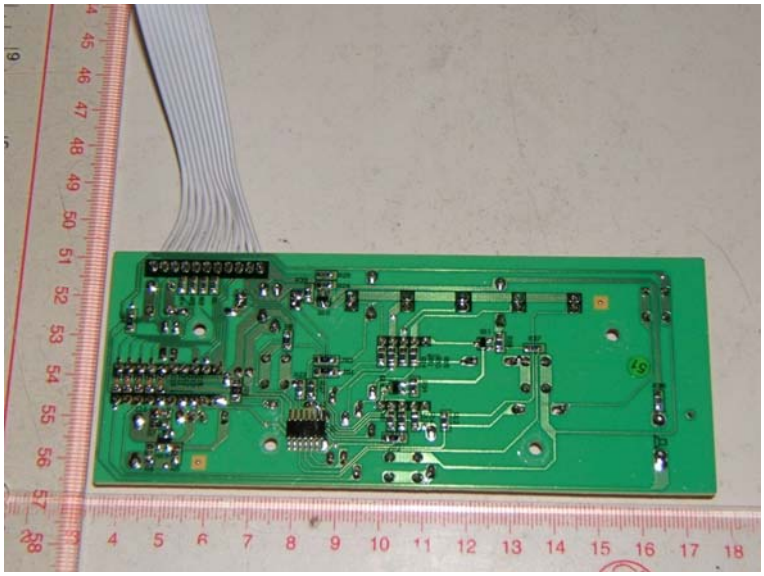
6/7/2007 11:44AM

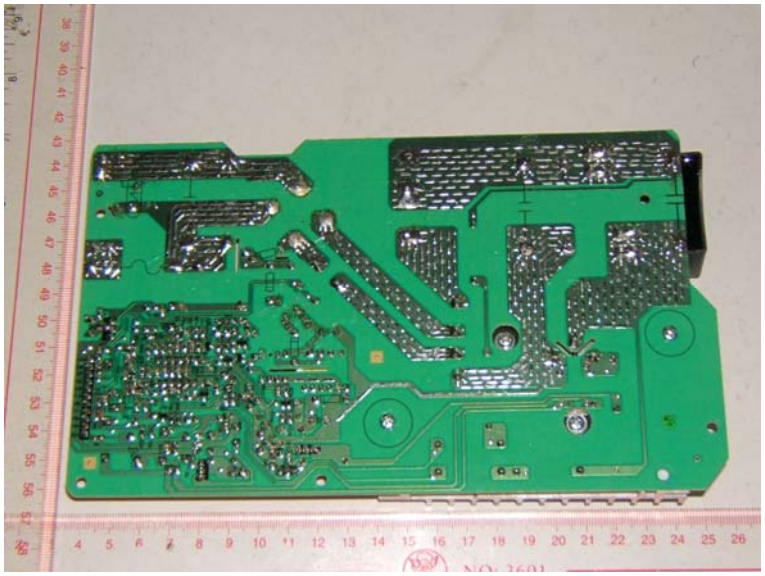
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.171000	42.10	10.0	55	12.8	AV	N	GND
0.291000	39.20	10.1	51	11.3	AV	N	GND
0.393000	36.90	10.1	48	11.1	AV	N	GND
0.396000	36.20	10.1	48	11.7	AV	N	GND
0.456000	36.40	10.1	47	10.4	AV	N	GND
4.532000	35.10	10.3	46	10.9	AV	N	GND

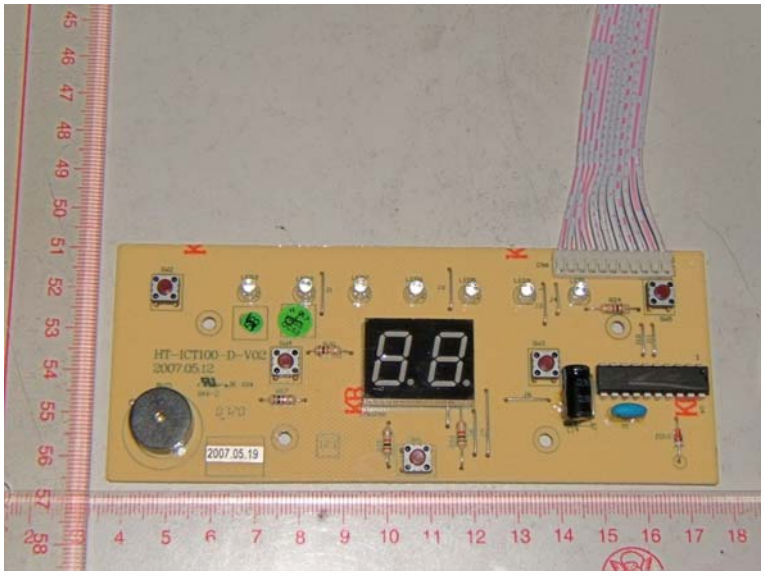
5. External and Internal Photos of the EUT

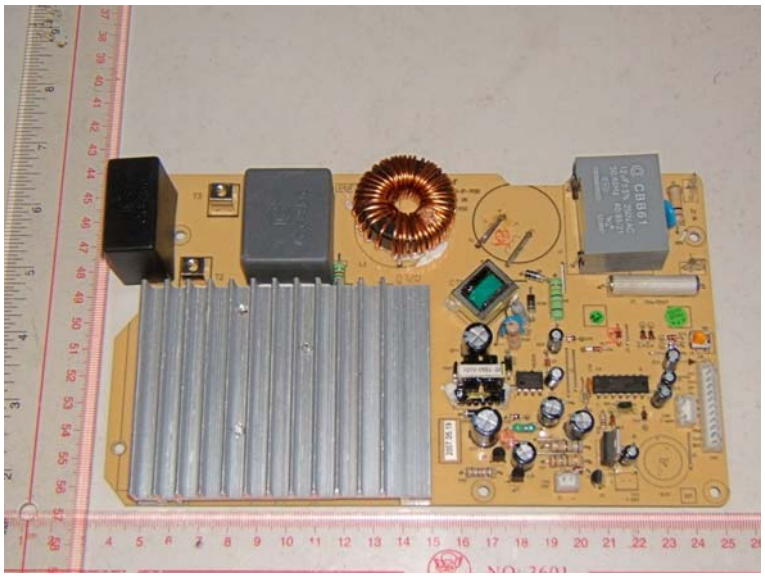
5.1. External photos of the EUT

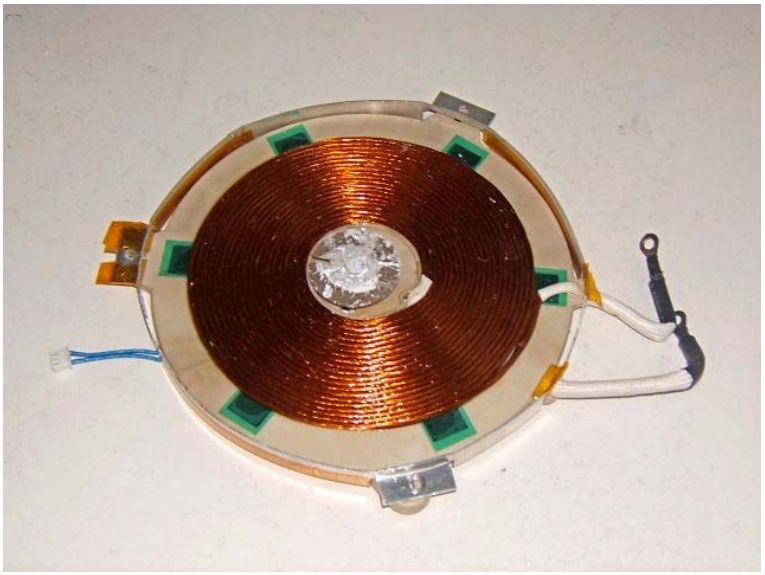
5.2. Internal photos of the EUT

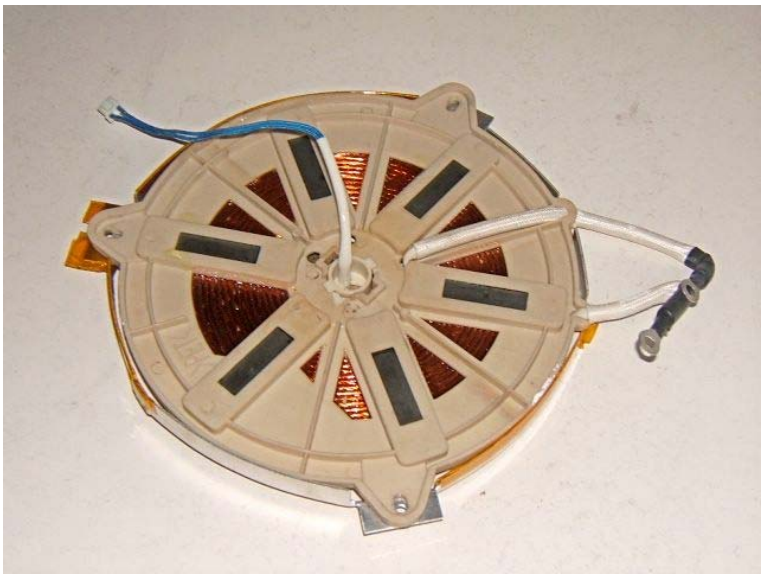


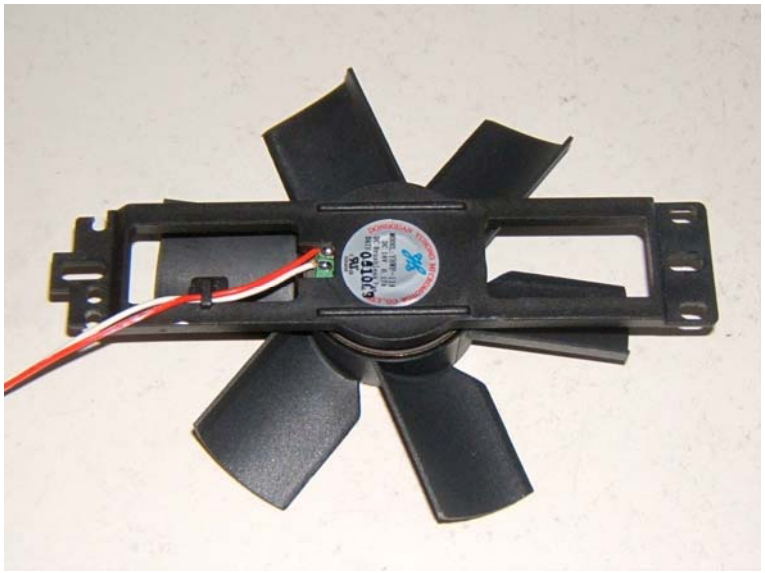



HT-ICT100-D-V02
2007.05.12
2007.05.19









..... End Of Report.....