

Prüfbericht - Nr.: **16029432 001**
Test Report no.:
Seite 1 von 25
Page 1 of 25
Auftraggeber: **IBC-HEARTHWARE.INC**
Client:
880 Lakeside Drive Gurnee
IL60031
U.S.A
Gegenstand der Prüfung:
Test item: **Induction Cooker**
Bezeichnung: **30101**
Identification: **30121** **FCC ID:** **Y74HHPIDC**
FCC ID
Wareneingangs-Nr.: **173058844** **Eingangsdatum:** **21.01.2011**
Receipt no.: *Date of receipt:*
Prüfort: **TÜV Rheinland (Guangdong) Ltd. EMC**
Testing location: **Laboratory**
Guangzhou Auto Market, Yuan Gang Section of
Guangshan Road, Guangzhou 510650
P. R. China **Listed test laboratory**
according to FCC rules
section 2.948 for
measuring devices under
Parts 18
Prüfgrundlage: **FCC Part 18: 2009-10-1**
Test specification: **Conduct Emissions with limits described at section 18.307 (a)**
Radiated Emissions with limits described at section 18.305 (b)
Prüfergebnis: **Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).**
Test result: **The test item passed the test specification(s).**
Prüflaboratorium: **TÜV Rheinland (Guangdong) Ltd.**
Testing laboratory:
geprüft / tested by: **kontrolliert/ reviewed by:**

 03.Mar.2011 Yvonne Zheng 
 Project Manager

| | | |
|---------------|---------------------------------|---------------------------|
| Datum Date | Name/ Stellung Name/Position | Unterschrift Signature |
|---------------|---------------------------------|---------------------------|

 04. Mar. 2011 Cherry He 
 Project Manager

| | | |
|---------------|---------------------------------|---------------------------|
| Datum Date | Name/ Stellung Name/Position | Unterschrift Signature |
|---------------|---------------------------------|---------------------------|

Sonstiges/ Other aspects:
Abkürzungen:

| | | |
|--------|---|--------------------------------|
| P(ass) | = | entspricht Prüfgrundlage |
| Fail) | = | entspricht nicht Prüfgrundlage |
| N/A | = | nicht anwendbar |
| N/T | = | nicht getestet |

Abbreviations:

| | | |
|--------|---|----------------|
| P(ass) | = | passed |
| Fail) | = | failed |
| N/A | = | not applicable |
| N/T | = | not tested |

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Prüfbericht - Nr.: **16029432 001**
Test Report no.:

Seite 2 von 25
Page 2 of 25

TEST SUMMARY

5.1 CONDUCTED EMISSION FOR FCC PART 18 PER SECTION 18.307 (A)

RESULT: Pass

5.2 RADIATED EMISSION FOR FCC PART 18 PER SECTION 18.305 (B)

RESULT: Pass

Contents

| | | |
|------------|---|-----------|
| 1 | GENERAL REMARKS | 4 |
| 1.1 | COMPLEMENTARY MATERIALS | 4 |
| 2 | TEST SITES | 4 |
| 2.1 | TEST FACILITIES..... | 4 |
| 2.2 | LIST OF TEST AND MEASUREMENT INSTRUMENTS..... | 5 |
| 2.3 | TRACEABILITY | 5 |
| 2.4 | CALIBRATION..... | 6 |
| 2.5 | MEASUREMENT UNCERTAINTY | 6 |
| 2.6 | LOCATION OF ORIGINAL DATA | 6 |
| 2.7 | STATUS OF FACILITY USED FOR TESTING | 6 |
| 3 | GENERAL PRODUCT INFORMATION | 7 |
| 3.1 | PRODUCT FUNCTION AND INTENDED USE..... | 7 |
| 3.2 | RATINGS AND SYSTEM DETAILS..... | 7 |
| 3.3 | INDEPENDENT OPERATION MODES..... | 8 |
| 3.4 | SUBMITTED DOCUMENTS | 8 |
| 4 | TEST SET-UP AND OPERATION MODE..... | 9 |
| 4.1 | PRINCIPLE OF CONFIGURATION SELECTION | 9 |
| 4.2 | TEST OPERATION AND TEST SOFTWARE | 9 |
| 4.3 | SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT..... | 9 |
| 4.4 | COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE | 9 |
| 4.5 | TEST SET-UP | 10 |
| 5 | TEST RESULTS EMISSION | 13 |
| 5.1 | CONDUCTED EMISSION FOR FCC PART 18 PER SECTION 18.307(A) | 13 |
| 5.2 | RADIATED EMISSION FOR FCC PART 18 PER SECTION 18.305(B) | 16 |
| 6 | PHOTOGRAPHS OF THE TEST SET-UP | 22 |
| 7 | LIST OF TABLES | 25 |
| 8 | LIST OF PHOTOGRAPHS | 25 |

1 General Remarks

1.1 Complementary Materials

None

2 Test Sites

2.1 Test Facilities

1) TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

Guangzhou Auto Market, Yuan Gang Section of Guangshan Road
Guangzhou 510650
P. R. China

2) SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

198 Kezhu Road, Scientech Park,
Guangzhou Economic & Technology Development District
Guangzhou, Guangdong, China 510663

The test at these test sites has been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Kind of Equipment | Type | Manufacturer | S/N | Calibrated until |
|--|-----------------|--------------------|----------|------------------|
| TÜV Rheinland (Guangdong) Ltd. EMC Laboratory | | | | |
| EMI Test Receiver | ESCI | Rohde & Schwarz | 100216 | 16.03.2011 |
| Trilog-Broadband Antenna | VULB9168 | Schwarzbeck | 210 | 16.03.2011 |
| Loop Antenna | HFH2-Z2 | Rohde & Schwarz | 100111 | 16.03.2011 |
| Band Reject Filter | BRM50702 | Micro-Tronics | 023 | 16.03.2011 |
| 3m Semi-anechoic chamber | --- | Albatross Projects | --- | 16.03.2011 |
| EMI Test Receiver | ESU26 | Rohde & Schwarz | 100209 | 04.11.2011 |
| Artificial Mains Network | ESH2-Z5 | Rohde&Schwarz | 100114 | 16.03.2011 |
| SGS-CSTC Standards Technical Services Co., Ltd. | | | | |
| EMI Test Receiver | Rohde&Schwarz | ESIB26 | 100249 | 28.10.2011 |
| Bi-log Type Antenna | Schaffner-Chase | CBL6112B | 2966 | 28.10.2011 |
| Bi-log Type Antenna | Schaffner-Chase | CBL6143 | 5070 | 28.10.2011 |
| 310N Amplifier | Sonama | 310N | 272683 | 28.10.2011 |
| 10m Semi-Anechoic Chamber | ETS | N/A | N/A | 28.10.2011 |
| Active Loop Antenna | EMCO | 6502 | 00042963 | 28.10.2011 |

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for conducted emissions measurements is ± 2.68 dB. The estimated combined standard uncertainty for radiated emissions measurements at TUV is ± 4.94 dB, at SGS is ± 2.468 dB.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached on Page 14-15, 18-21 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Guangzhou) file for certification follow-up purposes.

2.7 Status of facility used for testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory; Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 833845.

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, Guangdong, China 510663, is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 282399.

3 General Product Information

Brief description of the test sample:

The submitted samples 30101, 30121 are Induction Cookers for household use.

The two models are same except packing color. All the tests are performed on 30101.

3.1 Product Function and Intended Use

For details, refer to Technical Documentation and the User Manual.

3.2 Ratings and System Details

| | | |
|----------------------|-------|---------------|
| Type designation | 30101 | 30121 |
| Power Consumption | | 1350W |
| System input voltage | | AC 120V, 60Hz |
| Protection class | | II |

Refer to this report Technical Documentation for further information.

3.3 Independent Operation Modes

The basic operation modes are:

- A: On Power adjustable
Temperature adjustable
Timer
- B: Off

3.4 Submitted Documents

- Block Diagram
- Circuit Diagram
- PCB Layout
- External Photo
- Internal Photo
- Label and Location
- User Manual

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to Test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

Cooking Vessel (provided by TUV EMC lab):

Material: stainless steel

Contact surface diameter 18cm, Top surface diameter 27cm

4.4 Countermeasures to achieve EMC Compliance

No additional countermeasures to the submitted test sample(s) were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Measurement Equipment Configuration for Testing Conducted Emission

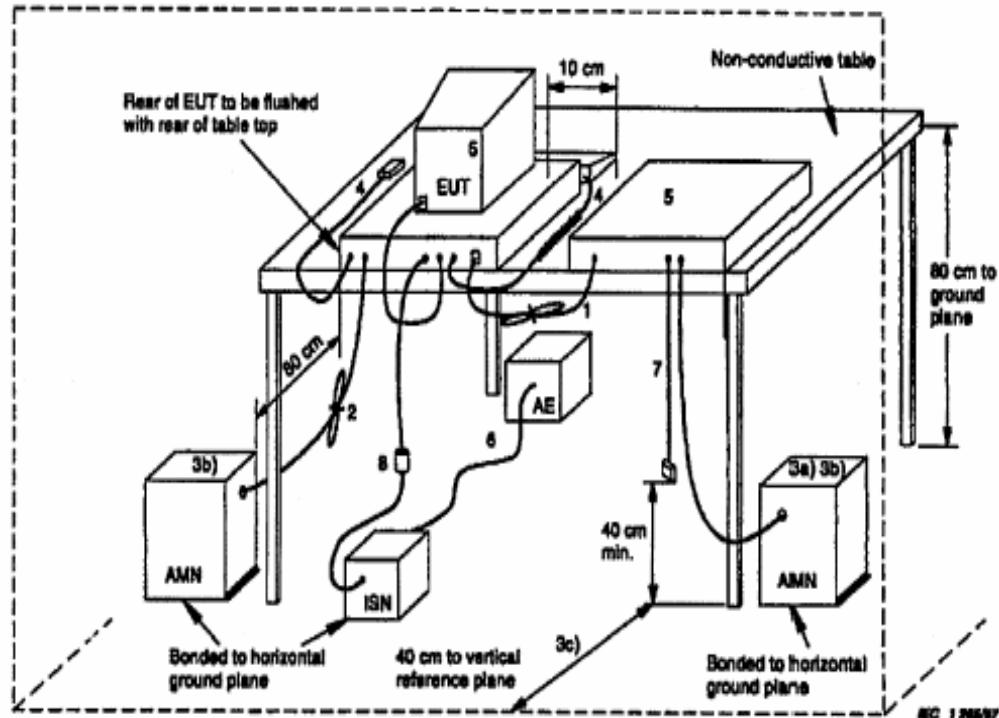


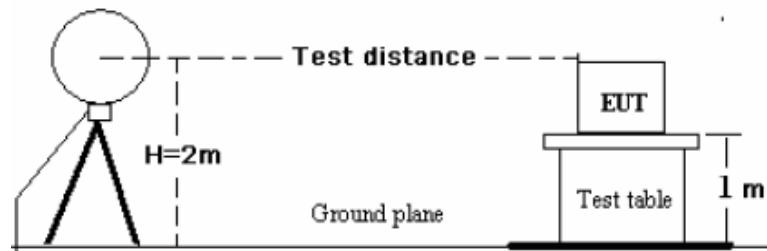
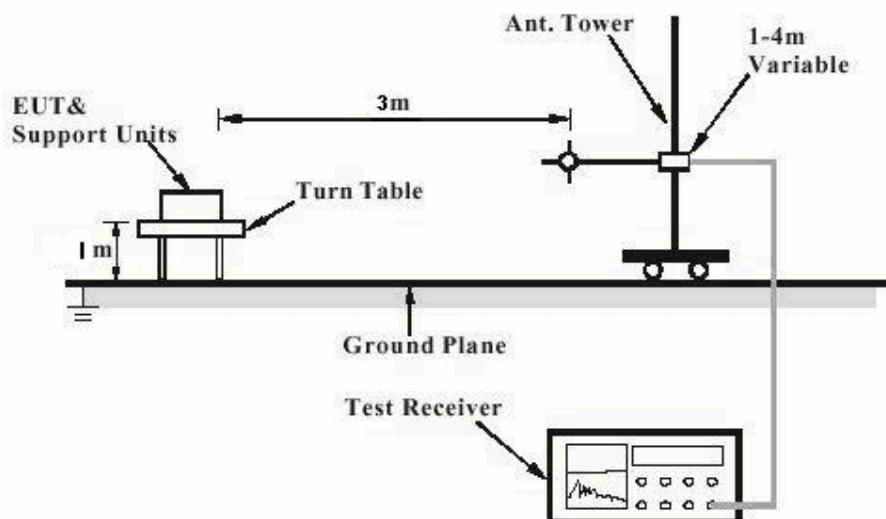
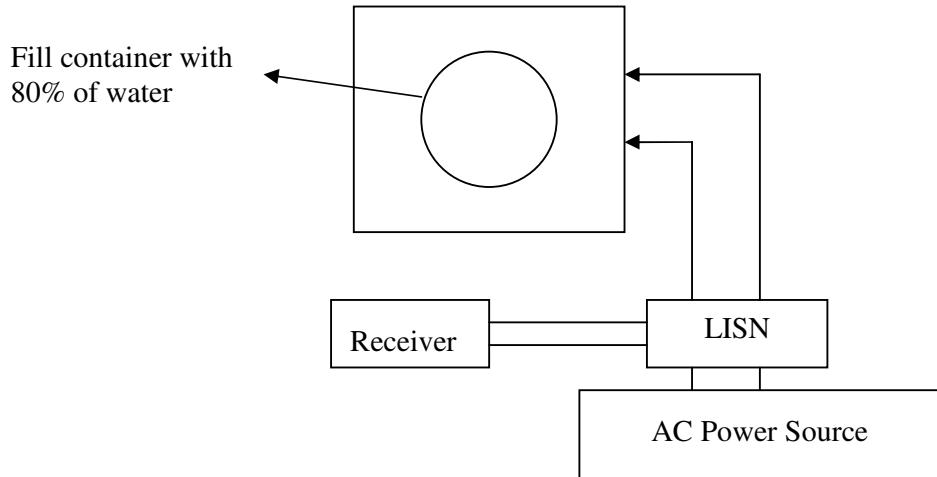
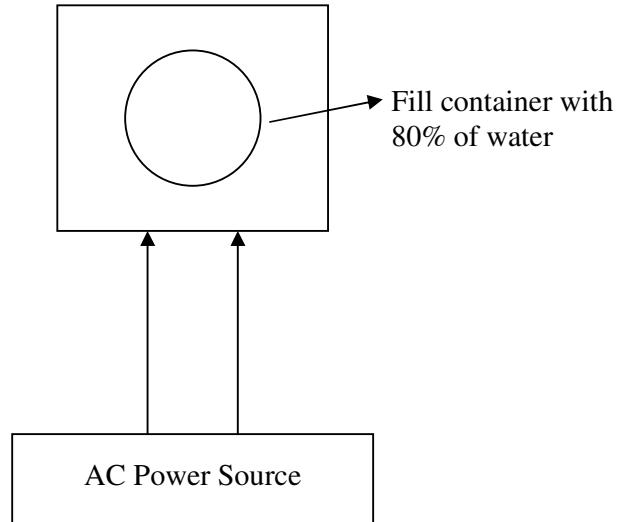
Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission**Active loop antenna with
pre-amplifier****10m Semi-anechoic chamber (for 9 kHz-30 MHz)****3m Semi-anechoic chamber (for 30 MHz-1 GHz)**

Diagram 3 of Equipment Configuration for Testing Conducted Emission**Diagram 4 of Equipment Configuration for Testing Radiated Emission**

5 Test Results EMISSION

5.1 Conducted Emission for FCC Part 18 per Section 18.307(a)

RESULT: Pass

| | | |
|--|---|---|
| Date of testing | : | 25.Feb.2011 |
| Test specification | : | FCC Part 18 Per Section 18.307(a) |
| Limits | : | FCC Part 18 Per Section 18.307(a) |
| Deviations from Standard Test procedures | : | None |
| Test procedure | : | Procedure specified in FCC/OST MP-5 were followed |
| Kind of test site | : | Shielded room |
| Operation mode | : | A: On with max. power |
| Temperature | : | 20°C |
| Humidity | : | 55% |

Test procedure:

1. Place the EUT as specified in FCC/OST MP-5 Clause 7. 1
2. Plug the LISN to a correct power source (pay attention to: AC/DC, voltage, frequency).
3. Connect the EUT to LISN.
4. Connect ESU26 and LISN via a 50-ohm coaxial cable and a pulse limiter then begin exploratory measurement.
5. Make final measurement.

If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector may be omitted.

Please refer to the following graphs for test data. Disturbances are far below the limit.

Prüfbericht - Nr.: **16029432 001**
Test Report no.:

Seite 14 von 25
Page 14 of 25

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EMC Test Service Hotline: +86-20-28391188

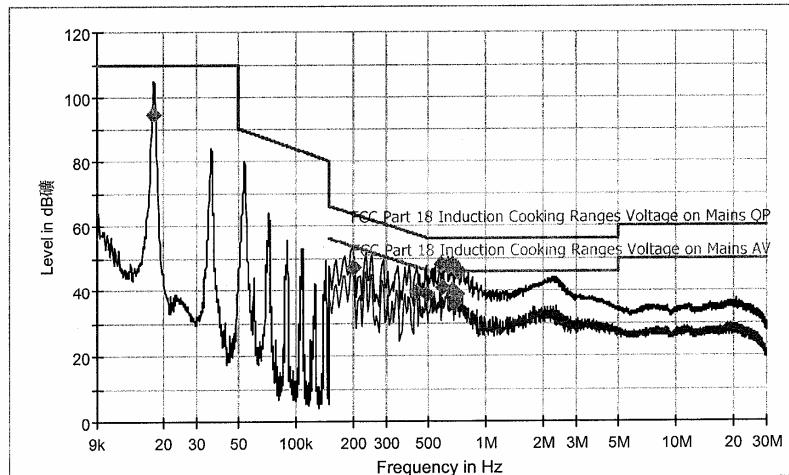
EMC Test Record (EMISSION)

Test Information

Manufacturer: IBC
Test Item: Induction Cooker
Identification: 30101
Test Standard: FCC part 18
Test Detail: Conducted Emission
Operation Mode: On with max power
Climate Condition: 20°C; 55 %RH; 101 kPa.
Test Voltage/ Freq.: AC120 V/ 60 Hz
Port / Line: L1 & N
Result: Pass
Hardware Setup: 1phase LISN ESH3-Z5 to ESU26
Level Unit: dBuV

| Subrange | Detectors | IF Bandwidth | Step Size | Meas. Time | Receiver |
|----------------|---------------|--------------|-----------|------------|----------|
| 9kHz – 150kHz | Peak | 200Hz | 100Hz | 50ms | ESU26 |
| 150kHz - 30MHz | Peak; Average | 9kHz | 4.5kHz | 10ms | ESU26 |

FCC Part 18 DV ESH3-Z5 9k to 30M ESCI



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2011.2.26
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Prüfbericht - Nr.: 16029432 001
Test Report no.:

Seite 15 von 25
Page 15 of 25

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Final Result 1

| Frequency (MHz) | QuasiPeak (dBuV) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) | Comment |
|-----------------|------------------|-----------------|-----------------|------|------------|-------------|--------------|---------|
| 0.017900 | 94.7 | 1000.0 | 0.200 | L1 | 10.0 | 15.3 | 110.0 | |
| 0.577500 | 47.9 | 1000.0 | 9.000 | L1 | 9.9 | 8.1 | 56.0 | |
| 0.591000 | 41.0 | 1000.0 | 9.000 | L1 | 9.9 | 15.0 | 56.0 | |
| 0.631500 | 47.5 | 1000.0 | 9.000 | L1 | 9.9 | 8.5 | 56.0 | |
| 0.667500 | 48.1 | 1000.0 | 9.000 | L1 | 9.9 | 7.9 | 56.0 | |
| 0.721500 | 45.7 | 1000.0 | 9.000 | N | 9.9 | 10.3 | 56.0 | |

Final Result 2

| Frequency (MHz) | Average (dBuV) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) | Comment |
|-----------------|----------------|-----------------|-----------------|------|------------|-------------|--------------|---------|
| 0.199500 | 46.9 | 1000.0 | 9.000 | L1 | 10.1 | 6.7 | 53.6 | |
| 0.443500 | 39.7 | 1000.0 | 9.000 | L1 | 9.9 | 7.5 | 47.2 | |
| 0.487500 | 38.9 | 1000.0 | 9.000 | L1 | 9.9 | 7.3 | 46.2 | |
| 0.667500 | 39.8 | 1000.0 | 9.000 | L1 | 9.9 | 6.2 | 46.0 | |
| 0.685500 | 35.9 | 1000.0 | 9.000 | L1 | 9.9 | 10.1 | 46.0 | |
| 0.703500 | 38.7 | 1000.0 | 9.000 | L1 | 9.9 | 7.3 | 46.0 | |



5.2 Radiated Emission for FCC Part 18 per Section 18.305(b)

RESULT:

Pass

| | | |
|--|---|---|
| Date of testing | : | 18.Feb.2011 |
| Test specification | : | FCC Part 18 Per Section 18.305(b) |
| Limits | : | FCC Part 18 Per Section 18.305(b) |
| Deviations from Standard Test procedures | : | None |
| Test procedure | : | Procedure specified in FCC/OST MP-5 were followed |
| Kind of test site | : | 10m Semi-anechoic chamber (for 9kHz-30MHz) 3m Semi-anechoic chamber (for 30MHz-1GHz) |
| Operation mode | : | A: On with max. power |
| Temperature | : | 23°C |
| Humidity | : | 52% |

Test procedure:

9 kHz-30MHz

1. An initial pre-scan was performed in the 10m chamber using the spectrum analyzer in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a 0.6m loop antenna.
2. The loop antenna was set to the vertical X, for suspected emission frequency point the antenna was rotated 180 degrees and the maximum emission value was recorded.
3. Then the loop antenna was set to the horizontal Z axis, step 1 is repeated.
3. For each suspected emission frequency point recorded in step 1, the EUT was arranged to its worst case and the EUT was turned from 0 degrees to 360 degrees to read the maximum emission.

30MHz-1GHz

1. The EUT was turned on and placed on the top of a rotatable table 1 meter above the ground with 3-orthogonal XYZ direction and be kept close enough to the measurement receiving antenna (especially for the measurement frequency range above 30MHz). The table was then rotated 360 degrees to detect the suspected emission frequency points. The position of the worst radiation case with both horizontal and vertical receiving antenna polarization was then recorded together with the suspected emission frequency points above-mentioned.
2. The EUT was then set 3 meters away from the receiving antenna, which was mounted on a variable-height antenna tower.

3. For each suspected emission frequency point recorded in step 1, the EUT was arranged to its worst case that the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to read the maximum emission.

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200Hz for frequency 9kHz to 150kHz, 9kHz for frequency 150kHz to 30MHz and 120 kHz for frequency 30MHz to 1GHz.

Please refer to the following graphs for test data.

Prüfbericht - Nr.: 16029432 001
Test Report no.:
Seite 18 von 25
Page 18 of 25


SGS-CSTC Standards Technical Services Co.,Ltd.

Tel:+86(0)20 8215 5314

Fax:+86(0)20 8207 5059

Conducted Emission Measurement

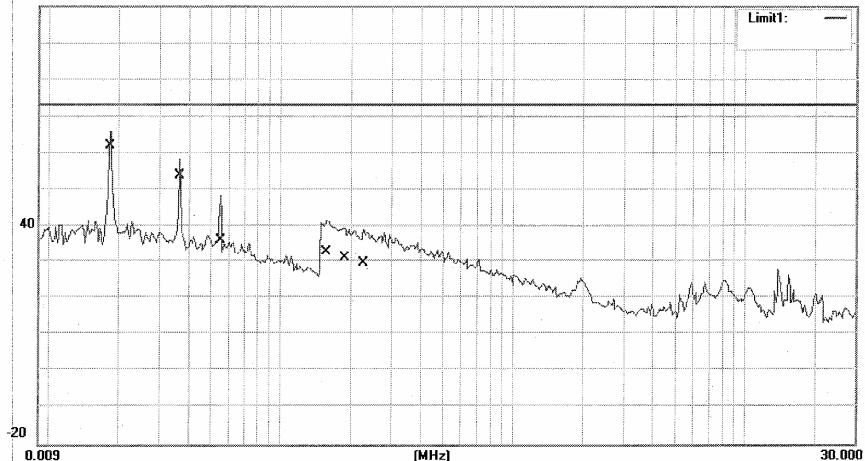
File :0394LR 0

Data #:1

Date: 2011-2-18

Time: 13:58:31

100.0 dBuV/m



Site Conduction #1

Phase:

Temperature: 23 C

Limit: FCC PART 18

Power: 120V

Humidity: 52 %

EUT:

M/N:

Mode: V

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|--------|---------------|----------------|------------------|-------|----------|---------|
| | | MHz | dBuV/m | dB | dBuV/m | dB | Detector | Comment |
| 1 | * | 0.0183 | 61.98 | 0.02 | 62.00 | 73.00 | -11.00 | AVG |
| 2 | | 0.0367 | 53.88 | 0.07 | 53.95 | 73.00 | -19.05 | AVG |
| 3 | | 0.0544 | 36.27 | 0.09 | 36.36 | 73.00 | -36.64 | AVG |
| 4 | | 0.1578 | 32.82 | 0.10 | 32.92 | 73.00 | -40.08 | AVG |
| 5 | | 0.1890 | 31.12 | 0.10 | 31.22 | 73.00 | -41.78 | AVG |
| 6 | | 0.2281 | 29.47 | 0.10 | 29.57 | 73.00 | -43.43 | AVG |

*:Maximum data x:Over limit !:over margin

The EMC test results obtained during lab rental or witness test are for reference only. They are not official SGS EMC test reports. All Official EMC test reports have to be reviewed and signed by our qualified reviewers based on the ISO17025 requirement. Therefore, SGS will not accept any liabilities if the customer or manufacturer decides in starting production without waiting for the official SGS EMC test reports.

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12.26



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Conducted Emission Measurement

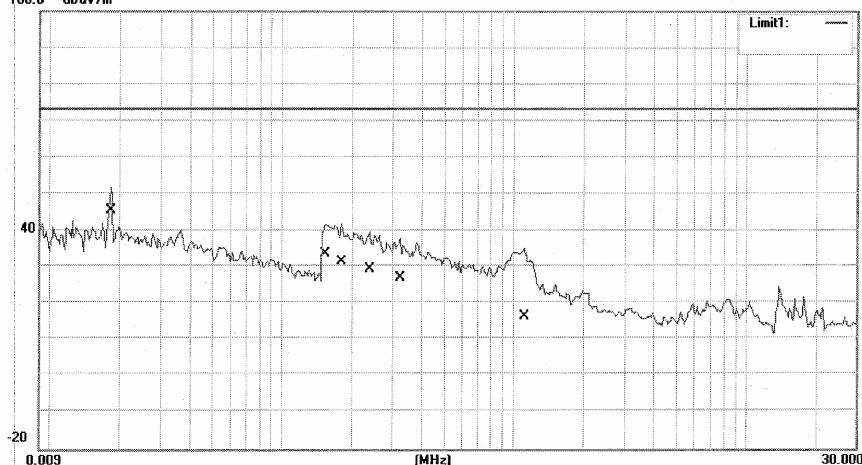
File :0394LR 0

Data #:2

Date: 2011-2-18

Time: 14:06:43

100.0 dBuV/m



Site Conduction #1

Phase:

Temperature: 23 C

Limit: FCC PART 18

Power: 120V

Humidity: 52 %

EUT:

M/N:

Mode: H

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|--------|---------------|----------------|------------------|-------|----------|---------|
| | | MHz | dBuV/m | dB | dBuV/m | dB | Detector | Comment |
| 1 | * | 0.0183 | 45.63 | 0.02 | 45.65 | 73.00 | -27.35 | AVG |
| 2 | | 0.1540 | 33.88 | 0.10 | 33.98 | 73.00 | -39.02 | AVG |
| 3 | | 0.1812 | 31.48 | 0.10 | 31.58 | 73.00 | -41.42 | AVG |
| 4 | | 0.2398 | 29.32 | 0.10 | 29.42 | 73.00 | -43.58 | AVG |
| 5 | | 0.3257 | 26.75 | 0.13 | 26.88 | 73.00 | -46.12 | AVG |
| 6 | | 1.1148 | 16.34 | 0.11 | 16.45 | 73.00 | -56.55 | AVG |

*:Maximum data x:Over limit !:over margin

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Prüfbericht - Nr.: **16029432 001**
Test Report no.:

Seite 20 von 25
Page 20 of 25

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EMC Test Record (Emission)

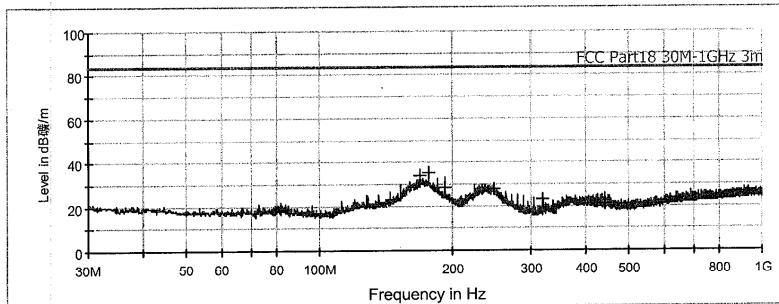
Common Information

Manufacturer: IBC
Test Item: Induction Cooker
Identification: 30101
Test Standard: FCC part 18
Test Detail: Radiated Emission
Operation Mode: On with max power
Climate Condition: 20°C; 55 %RH; 101 kPa.
Test Voltage/ Freq: AC120 V/ 60 Hz
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range: 25M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

Pre TUV 30M to 1G UVLB9168



Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Corr. (dB) | Margin (dB) | Limit (dBuV/m) | Polarization |
|-----------------|------------------|------------|-------------|----------------|--------------|
| 168.350000 | 33.9 | 13.3 | 49.6 | 83.5 | H |
| 176.400000 | 35.2 | 12.2 | 48.3 | 83.5 | H |
| 192.350000 | 28.5 | 10.4 | 55.0 | 83.5 | H |
| 248.500000 | 28.2 | 11.6 | 55.3 | 83.5 | H |
| 320.650000 | 23.1 | 13.3 | 60.4 | 83.5 | H |
| 440.900000 | 21.1 | 15.8 | 62.4 | 83.5 | H |



Prüfbericht - Nr.: **16029432 001**
Test Report no.:

Seite 21 von 25
Page 21 of 25

TUV Rheinland (Guangdong) Ltd.

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EMC Test Record (Emission)

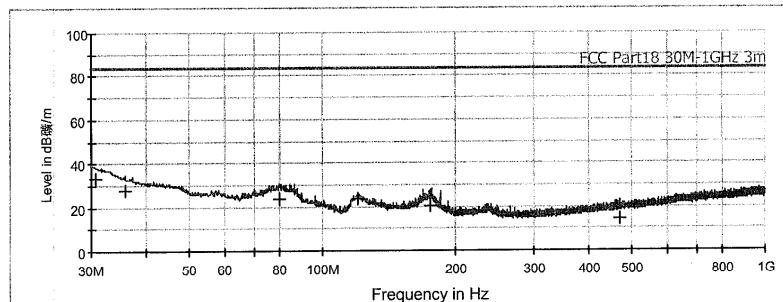
Common Information

Manufacturer: IBC
Test Item: Induction Cooker
Identification: 30101
Test Standard: FCC part 18
Test Detail: Radiated Emission
Operation Mode: On with max power
Climate Condition: 20°C; 55 %RH; 101 kPa.
Test Voltage/ Freq: AC120 V/ 60 Hz
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range: 25M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

Pre TUV 30M to 1G UVLB9168



Limit and Margin AV

| Frequency (MHz) | Average (dBuV/m) | Corr. (dB) | Margin (dB) | Limit (dBuV/m) | Polarization |
|-----------------|------------------|------------|-------------|----------------|--------------|
| 30.750000 | 33.5 | 13.2 | 50.0 | 83.5 | V |
| 35.700000 | 28.2 | 13.5 | 55.3 | 83.5 | V |
| 79.600000 | 23.8 | 9.4 | 59.7 | 83.5 | V |
| 120.550000 | 23.8 | 12.3 | 59.7 | 83.5 | V |
| 174.750000 | 20.3 | 12.5 | 63.2 | 83.5 | V |
| 470.600000 | 14.1 | 16.2 | 69.4 | 83.5 | V |

Date: 28/01/2011 - Time: 09:12:29

Tested by: _____ Reviewed by: _____

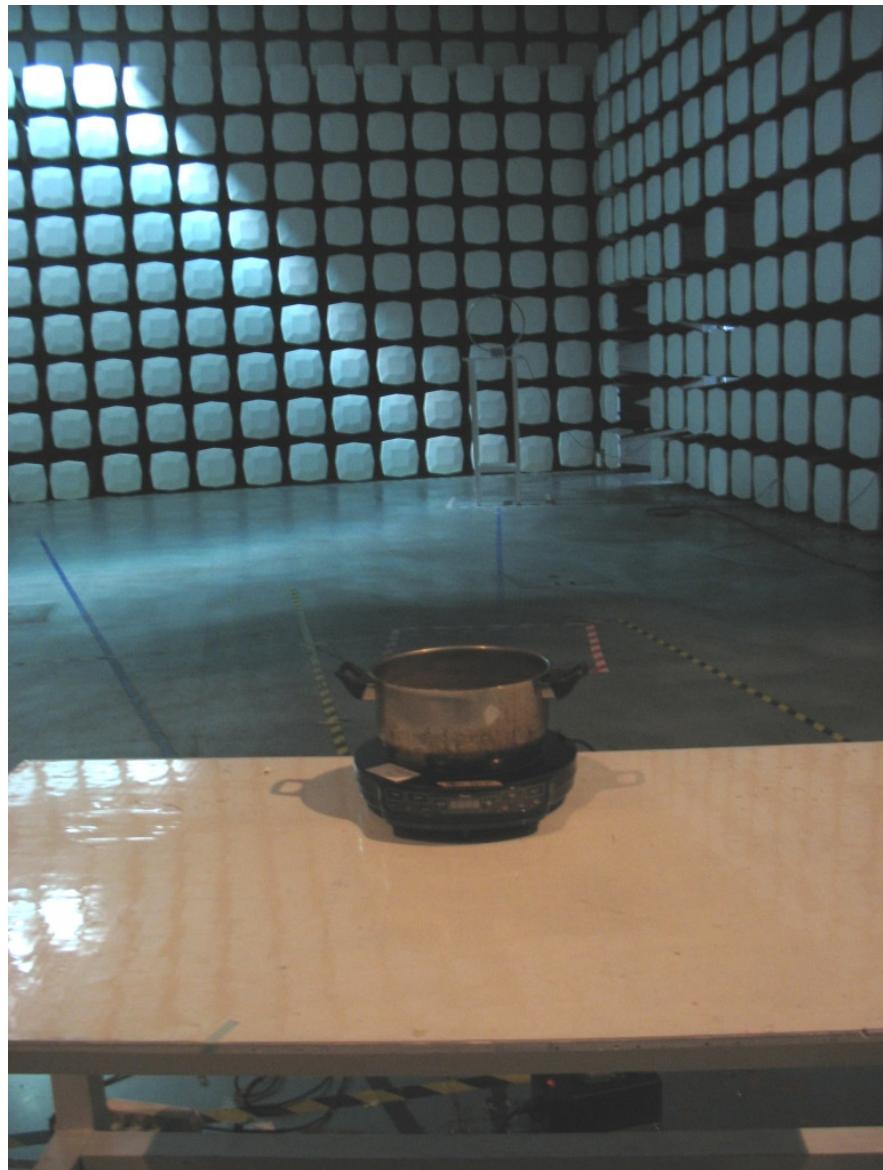


6 Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission



Photograph 2: Set-up for Radiated Emission



9 kHz – 30 MHz (10m distance)



30MHz - 1GHz (3m distance)

7 List of Tables

| | |
|--|---|
| Table 1: List of Test and Measurement Equipment..... | 5 |
|--|---|

8 List of Photographs

| | |
|---|----|
| Photograph 1: Set-up for Conducted Emission | 22 |
| Photograph 2: Set-up for Radiated Emission | 23 |