

# EMC Test Report



Test report file No. : S16069-F

Date of issue: 11 October, 2016

Type : Commercial Induction Cooktop

Model : KY-MK3500

Serial No. : P3 00009

EUT received : 4 October, 2016

Applicant : Panasonic Appliances Company of America  
Kitchen Appliances Certification Liaison

Address : 1701 Golf Road Suite 3-106 Rolling Meadows, IL 60008

Manufacturer : Panasonic Corporation  
Appliances Company Kitchen Appliances Business Division

Address : 1-5-1 Takatsukadai, Nishi-ku, Kobe City 651-2271, Japan

Test results according to the  
standard(s) at page 3 :



**Compliance**



**Non-compliance**

This test report with appendix consists of 20 pages.

This test result only responds to the tested sample.

It is not allowed to copy this test report even partly without the allowance of the test laboratory.

|               | Title                                                                 | Signer                                                                                                  |
|---------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Tested by :   | Test engineer                                                         | <br>Masaki Yamanaka |
| Reviewed :    | Manager,<br>Quality System Representative<br>and Responsible engineer | <br>Satoshi Arita  |
| Approved by : | Laboratory Director,<br>EMC Test Laboratory                           | <br>Tsutomu Inada  |

# A) DOCUMENTATION

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This test report contains only the results of a single investigation carried out on the product submitted. It is not a generally valid judgement by the EMC Test Laboratory of Panasonic Corporation Product Analysis Center regarding the properties of similar products taken from current production. It does not apply to all the EMC Test Laboratory of Panasonic Corporation Product Analysis Center specifications applicable to the tested products.

This test report may only be passed to a third party in its complete wording including this preamble and the date of issue. Any publication or reproduction require the prior written approval of the EMC Test Laboratory of Panasonic Corporation Product Analysis Center.

## **TEST STANDARD(S)**

The tests were performed according to the following standard(s) :

- ☒ - FCC Rules and Regulations Part18 Subpart C - Technical Standards
- ☒ - FCC / OST MP-5 (1986) - Test Procedure.

---

Deviations from, additions to the test method from the standard: No deviation

## **TEST LABORATORY**

Laboratory Name : EMC Test Laboratory, Product Analysis Center,  
Panasonic Corporation

Corporation : Panasonic Corporation

JAB Code : RTL02730

Sasayama Site  
Address : 231-1 Yashiro, Sasayama City, Hyogo 669-2356, Japan  
TEL : +81(79) 552-5681  
FAX : +81(79) 552-5682

E-mail : inada.tsutomu@jp.panasonic.com

## **ENVIRONMENTAL CONDITIONS**

Temperature, Humidity and Atmospheric pressure : refer to Test Conditions and Result

## **POWER SUPPLY SYSTEM UTILIZED**

Power supply system : AC 208 V / 60 Hz / 1 phase  
: AC 240 V / 60 Hz / 1 phase

## **STATEMENT OF TRACEABILITY AND MEASUREMENT UNCERTAINTY**

The data and results referenced in this document are true and accurate. The test results are traceable to the national or international standards. The reader is cautioned that there may be measurement uncertainty within the calibration limits of the equipment and facilities that can account for a nominal measurement uncertainty of each test remarks. 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.

## **SHORT DESCRIPTION OF THE EQUIPMENT UNDERTEST (EUT)**

This product is a commercial cooking appliances.

It is equipped with an induction heater for heating the pan was placed on top.

## **DEVIATION FROM THE STANDARDS**

Deviations from or additions to the test method: No deviation or addition

## **DEFINITIONS FOR SYMBOLS USED IN THIS TEST REPORT**

- ☒ - Check box indicates that the listed condition, standard or equipment was applicable for this test report.
- ☐ - Blank box indicates that the listed condition, standard or equipment was not applicable for this test report.

## B) TEST CONDITIONS AND RESULTS

### Conducted Emissions (Mains Port)

The measurement of the conducted emissions (interference voltage) at the mains ports in the frequency range of 9 kHz- 30 MHz were performed.

☒ - Test applicable

**Test terminals :**

- ☒ - Mains terminals  
☐ - Discontinuous disturbance

**Site location :**

☒ - Sasayama EMC Site

**Test location :**

☒ - EMI Shielded Room

**Test mains port :**

- ☒ - AC  
☐ - DC

Used test instruments and test accessories are shown in appendix B

All used test-instruments as well as the test-accessories are calibrated regularly.

**Result :**

**The requirements are: MET** ☒ **NOT MET** ☐

Min. limit margin 5.3 dB at 10.840 MHz

Max. limit exceeding            dB at            MHz

**Remarks :** -Temperature: 24 °C, Humidity: 64 %, Atmospheric pressure: 984 hPa

(5 October, 2016)

-Results of the mains port tests are shown in appendix A.

-The minimum margin was found with Ave. detector receiver on VA Phase (Neutral Phase) at 208 V 60 Hz.

-Measurement uncertainty = 3.43 dB

## **Radiated Emissions (Below 1 GHz : Magnetic Field)**

The measurement of the radiated emissions (magnetic field)

in the frequency range of 9 kHz- 30 MHz were performed in horizontal and vertical antenna polarization.

☒ - Test applicable

Site location :

☒ - Sasayama EMC Site

Test location :

☒ - Reference Open Area Test Site

Test distance :

☐ - 3 meters

☐ - 10 meters

☒ - 30 meters

Used test instruments and test accessories are shown in appendix B

All used test-instruments as well as the test-accessories are calibrated regularly.

### **Result :**

The requirements are: **MET** ☒

**NOT MET** ☐

Min. limit margin 17.0 dB at 0.024 MHz

Max. limit exceeding            dB at            MHz

Remarks : -Temperature: 24 °C, Humidity: 68 %, Atmospheric pressure: 986 hPa

(4 October, 2016)

-Results of the radiated emission tests are shown in appendix A.

-The minimum margin was found with X axis antenna polarization at 240 V 60 Hz.

-Measurement uncertainty = 2.38 dB

## EQUIPMENT UNDER TEST

### Operation - mode of the EUT :

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

☒ Power mode

**Modification of the EUT :** The test laboratory did not modify the EUT during the test.

Following peripheral devices and interface cables were connected during the measurement:

### < EUT >

| No. | Device                       | Model     | Serial No. | Manufacturer | Date of manufacture | EUT condition |
|-----|------------------------------|-----------|------------|--------------|---------------------|---------------|
| A   | Commercial Induction Cooktop | KY-MK3500 | P3 00009   | Panasonic    | September, 2016     | Pre           |

[Pre] = Pre Production, [Pro] = Production

| No. | Device                       | Equipment authorization | FCC ID    |
|-----|------------------------------|-------------------------|-----------|
| A   | Commercial Induction Cooktop | Certification           | ACLAPZC93 |

### < Details of ports >

| No. | Name of port | Connection | Status of lines | Analog / Digital | Remarks |
|-----|--------------|------------|-----------------|------------------|---------|
| ①   | AC IN        | EUT / AC   | Passive         | Analog           | -       |

Note :

-The status of lines shows direction of signals on the EUT; "active" is "OUT" and "passive" is "IN".

### < AC Power Cable >

| No. | Name of cable<br>-----<br>Manufacturer / Type                            | Cable type | Pin | Length (m) | Shielded   | Ferrite quantity | Ground line |
|-----|--------------------------------------------------------------------------|------------|-----|------------|------------|------------------|-------------|
| 1   | POWER CORD<br>-----<br>TA HSING Electric Wire & Cable Co.,Ltd / ZN01AC93 | e          | 3   | 1.80       | Unshielded | None             | Yes         |

Note :

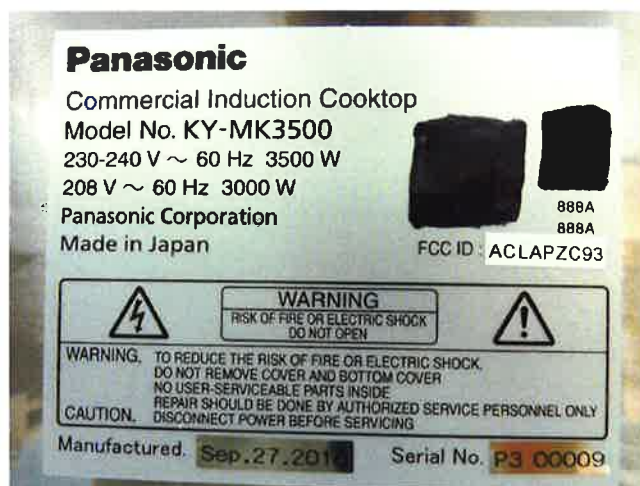
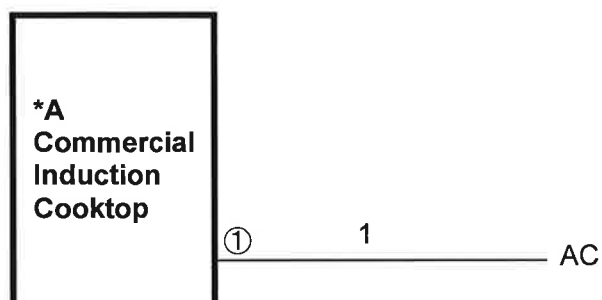
-Explanation of the abbreviations of the cable type and ferrite is shown in the table titled "characters of the cable type and ferrite".

**Characters of the cable type and ferrite :**

| Character | Cable type and Ferrite                                                                                                           |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| a         | Enclosed cable                                                                                                                   |
| b         | Available accessory (exclusive cable)                                                                                            |
| c         | Commercially available cable (with no designation)                                                                               |
| d         | Commercially available cable.<br>(The selection and mounting procedure of the cable is designated in the instruction manual.)    |
| e         | Fixed cable                                                                                                                      |
| f         | Enclosed ferrite<br>(Setting up method of the ferrite is designated in the instruction manual.)                                  |
| g         | Commercially available ferrite.<br>(The selection and setting up method of the ferrite is designated in the instruction manual.) |
| h         | Fixed ferrite (Already fixed)                                                                                                    |

## BLOCK DIAGRAM OF THE EQUIPMENT UNDER TEST (EUT)

\*: EUT



## **SUMMARY**

### **General remarks :**

Emission tests were all good results.

### **Final judgment :**

The requirements according to the technical standard(s) and tested operation modes are

☒ **MET**

☐ **NOT MET**

The equipment under test

☒ **Fulfills** the general approval requirements cited on page 3.

☐ **Does not fulfill** the general approval requirements cited on page 3.

Testing Start Date : 4 October, 2016

Testing End Date : 5 October, 2016

## **CONSTRUCTIONAL DATAFORM FOR EMC-TESTING**

**Applicant** : Panasonic Appliances Company of America  
Kitchen Appliances Certification Liaison

**Address** : 1701 Golf Road Suite 3-106 Rolling Meadows, IL 60008

**Manufacturer** : Panasonic Corporation  
Appliances Company Kitchen Appliances Business Division

**Address** : 1-5-1 Takatsukadai, Nishi-ku, Kobe City 651-2271, Japan

**Factory** : Panasonic Corporation  
Appliances Company Kitchen Appliances Business Division

**Address** : 1-5-1 Takatsukadai, Nishi-ku, Kobe City 651-2271, Japan

**Type** : Commercial Induction Cooktop **Rated voltage** : 208 V / 60Hz  
230V – 240 V / 60Hz

**Model** : KY-MK3500 **Rated input power** : 3000 W / 208 V  
3500 W / 230V – 240 V

**Serial No** : P3 00009 **Protection class** : Class I

**Configuration of equipment:**

Commercial Induction Cooktop : KY-MK3500

**Source of interference & internal frequencies:**

Source frequency  
Micro computer : 40 MHz / 32 MHz  
PFC : 70 kHz  
Inveter for Induction heating : 23 kHz - 85 kHz  
: \_\_\_\_\_

**Noise suppression components:**

None.

**Measures for electromagnetic shielding:**

None.

**Place of issue** : Hyogo Japan

**Date** : 3 October, 2016

**Seal and signature of applicant** :

  
Keiko Isoda

**Section of the signer** :

IH CookTop Engineering Department

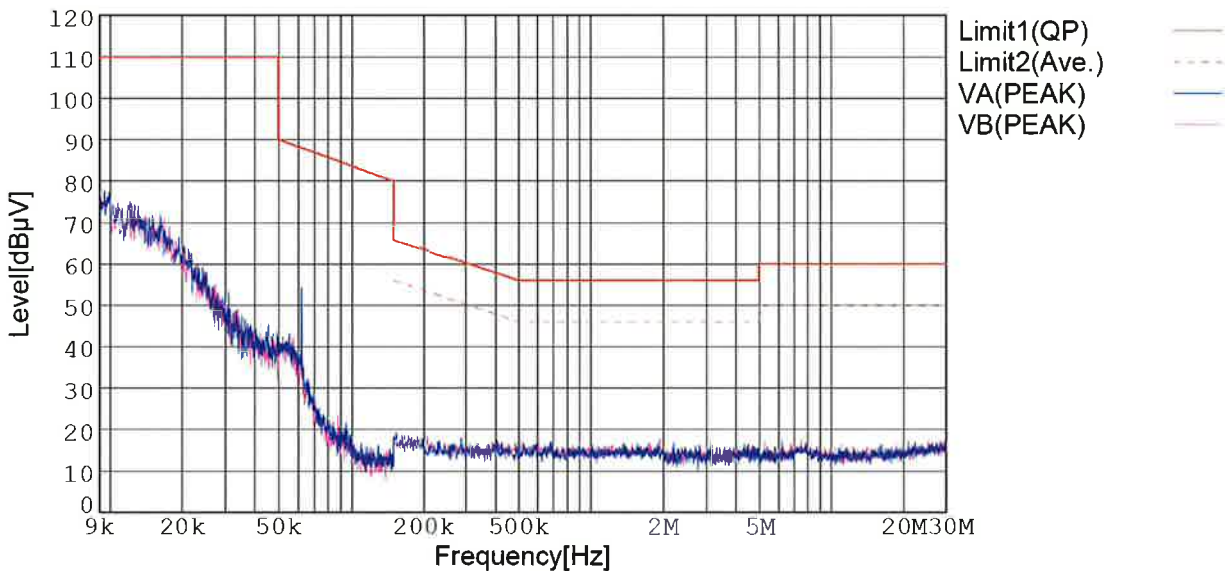
# C) Appendix

## Appendix A : Test Data

### Conducted Emissions (Mains Port)

#### Conducted Emissions

|                                                 |   |            |             |   |                |
|-------------------------------------------------|---|------------|-------------|---|----------------|
| Model Name                                      | : |            | Temp.       | : | 24deg.C        |
| Model No.                                       | : |            | Humi.       | : | 64%            |
| Serial No.                                      | : |            | Pressure    | : | 984hPa         |
| Operator                                        | : | M.Yamanaka | Date        | : | 2016/10/5 9:18 |
| Bands                                           | : | 9          | Test Equip. | : | ESCI-3         |
| Detector                                        | : | PEAK       | Comment     | : | Floor Noise    |
| Limit1: [FCC Part 18] cooking/ultrasonic (QP)   |   |            |             |   |                |
| Limit2: [FCC Part 18] cooking/ultrasonic (Ave.) |   |            |             |   |                |



\*VA = Neutral Phase, VB = Line Phase

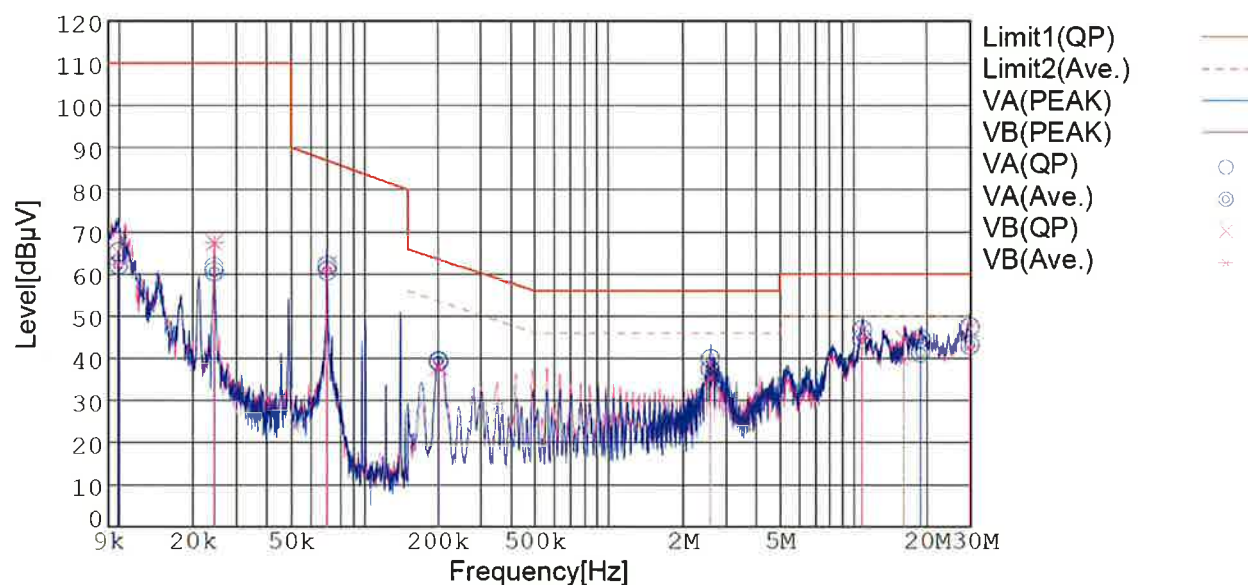
# Conducted Emissions

Model Name : Commercial Induction Cooktop  
Model No. : KY-MK3500  
Serial No. : P3 00009  
Operator : M.Yamanaka  
Points : 16  
Detector : PEAK

Temp. : 24deg.C  
Humi. : 64%  
Pressure : 984hPa  
Date : 2016/10/5 10:29  
Test Equip. : ESCI-3  
Comment : 208V 60Hz

Limit1: [FCC Part 18] cooking/ultrasonic (QP)

Limit2: [FCC Part 18] cooking/ultrasonic (Ave.)



| Frequency [MHz] | Meter Reading (QP) [dBμV] | Meter Reading (Ave.) [dBμV] | Factor [dB] | Level (QP) [dBμV] | Level (Ave.) [dBμV] | Line | Limit (QP) [dBμV] | Limit (Ave.) [dBμV] | Margin (QP)[dB] | Margin (Ave.) [dB] |
|-----------------|---------------------------|-----------------------------|-------------|-------------------|---------------------|------|-------------------|---------------------|-----------------|--------------------|
| 0.0099          | 49.8                      | 46.7                        | 15.5        | 65.3              | 62.2                | VA   | 110.0             | —                   | 44.7            | —                  |
| 0.0244          | 50.8                      | 49.7                        | 10.9        | 61.7              | 60.6                | VA   | 110.0             | —                   | 48.3            | —                  |
| 0.0700          | 51.9                      | 50.7                        | 10.1        | 62.0              | 60.8                | VA   | 86.9              | —                   | 24.9            | —                  |
| 0.2012          | 29.1                      | 29.3                        | 10.1        | 39.2              | 39.4                | VA   | 63.6              | 53.6                | 24.4            | 14.2               |
| 2.5860          | 29.9                      | 27.3                        | 10.1        | 40.0              | 37.4                | VA   | 56.0              | 46.0                | 16.0            | 8.6                |
| 10.8400         | 36.4                      | 34.3                        | 10.4        | 46.8              | 44.7                | VA   | 60.0              | 50.0                | 13.2            | 5.3                |
| 18.8500         | 34.0                      | 30.7                        | 10.7        | 44.7              | 41.4                | VA   | 60.0              | 50.0                | 15.3            | 8.6                |
| 29.9370         | 36.3                      | 31.9                        | 11.2        | 47.5              | 43.1                | VA   | 60.0              | 50.0                | 12.5            | 6.9                |
| 0.0098          | 49.8                      | 46.8                        | 15.5        | 65.3              | 62.3                | VB   | 110.0             | —                   | 44.7            | —                  |
| 0.0244          | 56.5                      | 56.5                        | 10.9        | 67.4              | 67.4                | VB   | 110.0             | —                   | 42.6            | —                  |
| 0.0700          | 51.9                      | 50.7                        | 10.1        | 62.0              | 60.8                | VB   | 86.9              | —                   | 24.9            | —                  |
| 0.2010          | 27.8                      | 28.1                        | 10.1        | 37.9              | 38.2                | VB   | 63.6              | 53.6                | 25.7            | 15.4               |
| 2.5890          | 28.4                      | 25.0                        | 10.2        | 38.6              | 35.2                | VB   | 56.0              | 46.0                | 17.4            | 10.8               |
| 10.8400         | 36.2                      | 34.2                        | 10.4        | 46.6              | 44.6                | VB   | 60.0              | 50.0                | 13.4            | 5.4                |
| 16.0900         | 34.1                      | 28.9                        | 10.6        | 44.7              | 39.5                | VB   | 60.0              | 50.0                | 15.3            | 10.5               |
| 29.8900         | 35.9                      | 31.5                        | 11.2        | 47.1              | 42.7                | VB   | 60.0              | 50.0                | 12.9            | 7.3                |

\*VA = Neutral Phase, VB = Line Phase

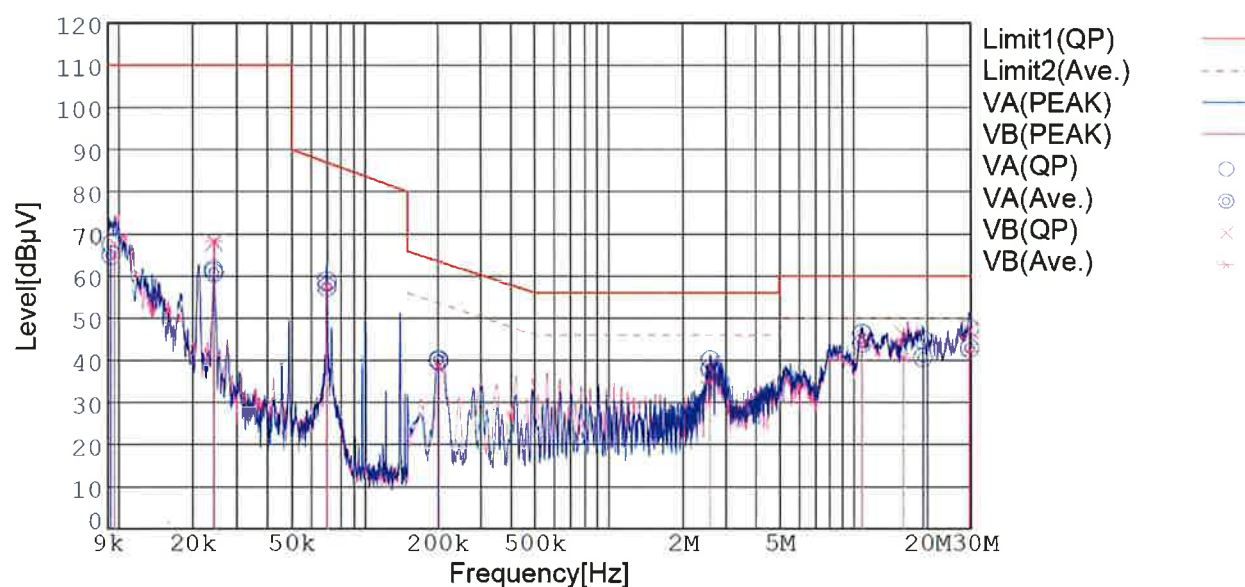
# Conducted Emissions

Model Name : Commercial Induction Cooktop  
Model No. : KY-MK3500  
Serial No. : P3 00009  
Operator : M.Yamanaka  
Points : 16  
Detector : PEAK

Temp. : 24deg.C  
Humi. : 64%  
Pressure : 984hPa  
Date : 2016/10/5 9:27  
Test Equip. : ESCI-3  
Comment : 240V 60Hz

Limit1: [FCC Part 18] cooking/ultrasonic (QP)

Limit2: [FCC Part 18] cooking/ultrasonic (Ave.)



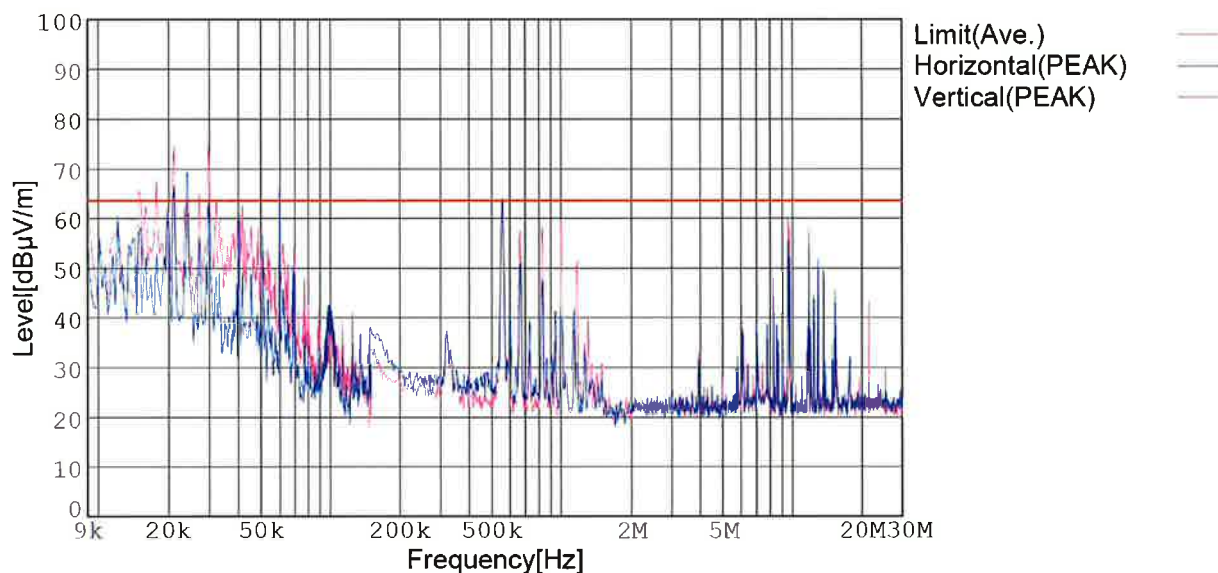
| Frequency [MHz] | Meter Reading (QP) [dBμV] | Meter Reading (Ave.) [dBμV] | Factor [dB] | Level (QP) [dBμV] | Level (Ave.) [dBμV] | Line | Limit (QP) [dBμV] | Limit (Ave.) [dBμV] | Margin (QP)[dB] | Margin (Ave.) [dB] |
|-----------------|---------------------------|-----------------------------|-------------|-------------------|---------------------|------|-------------------|---------------------|-----------------|--------------------|
| 0.0093          | 51.7                      | 49.2                        | 15.8        | 67.5              | 65.0                | VA   | 110.0             | —                   | 42.5            | —                  |
| 0.0244          | 50.6                      | 50.0                        | 10.9        | 61.5              | 60.9                | VA   | 110.0             | —                   | 48.5            | —                  |
| 0.0699          | 48.7                      | 47.3                        | 10.1        | 58.8              | 57.4                | VA   | 87.0              | —                   | 28.2            | —                  |
| 0.2015          | 29.8                      | 30.0                        | 10.1        | 39.9              | 40.1                | VA   | 63.6              | 53.6                | 23.7            | 13.5               |
| 2.5880          | 30.2                      | 27.9                        | 10.1        | 40.3              | 38.0                | VA   | 56.0              | 46.0                | 15.7            | 8.0                |
| 10.8400         | 36.0                      | 33.7                        | 10.4        | 46.4              | 44.1                | VA   | 60.0              | 50.0                | 13.6            | 5.9                |
| 19.2400         | 34.1                      | 29.9                        | 10.8        | 44.9              | 40.7                | VA   | 60.0              | 50.0                | 15.1            | 9.3                |
| 29.8600         | 36.5                      | 31.6                        | 11.2        | 47.7              | 42.8                | VA   | 60.0              | 50.0                | 12.3            | 7.2                |
| 0.0096          | 52.0                      | 49.2                        | 15.6        | 67.6              | 64.8                | VB   | 110.0             | —                   | 42.4            | —                  |
| 0.0244          | 57.1                      | 57.3                        | 10.9        | 68.0              | 68.2                | VB   | 110.0             | —                   | 42.0            | —                  |
| 0.0700          | 48.5                      | 47.1                        | 10.1        | 58.6              | 57.2                | VB   | 86.9              | —                   | 28.3            | —                  |
| 0.2010          | 28.5                      | 28.8                        | 10.1        | 38.6              | 38.9                | VB   | 63.6              | 53.6                | 25.0            | 14.7               |
| 2.5890          | 28.1                      | 24.7                        | 10.2        | 38.3              | 34.9                | VB   | 56.0              | 46.0                | 17.7            | 11.1               |
| 10.8400         | 35.3                      | 33.1                        | 10.4        | 45.7              | 43.5                | VB   | 60.0              | 50.0                | 14.3            | 6.5                |
| 16.0900         | 35.3                      | 30.0                        | 10.6        | 45.9              | 40.6                | VB   | 60.0              | 50.0                | 14.1            | 9.4                |
| 29.8380         | 35.9                      | 31.0                        | 11.2        | 47.1              | 42.2                | VB   | 60.0              | 50.0                | 12.9            | 7.8                |

\*VA = Neutral Phase, VB = Line Phase

## Radiated Emissions (Below 1 GHz : Magnetic Field)

### Radiated Emissions

|              |                             |               |             |   |                 |
|--------------|-----------------------------|---------------|-------------|---|-----------------|
| Model Name   | :                           |               | Temp.       | : | 24deg.C         |
| Model No.    | :                           |               | Humi.       | : | 68%             |
| Serial No.   | :                           |               | Date        | : | 2016/10/4 11:42 |
| Operator     | :                           | M.Yamanaka    | Test Equip. | : | ESI 26          |
| Bands        | :                           | 5             | Comment     | : | 986hPa          |
| Detector     | :                           | PEAK          | Floor Noise | : |                 |
| Polarization | :                           | Hori. & Vert. |             |   |                 |
| Limit:       | [FCC Part18] AV (<90k)<30m> |               |             |   |                 |



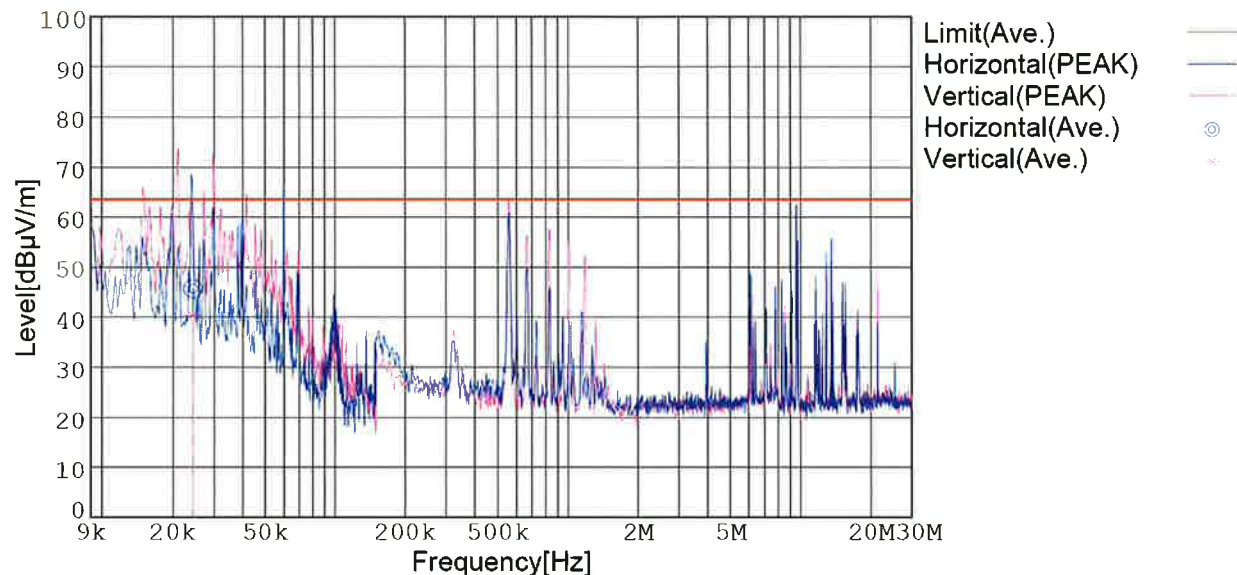
\*Hori. = X Axis, Vert. = Y Axis

# Radiated Emissions

Model Name : Commercial Induction Cooktop  
Model No. : KY-MK3500  
Serial No. : P3 00009  
Operator : M.Yamanaka  
Points : 2  
Detector : PEAK  
Polarization : Hori. & Vert.

Temp. : 24 deg.C  
Humi. : 68 %  
Date : 2016/10/4 13:36  
Test Equip. : ESI 26  
Comment : 986 hPa  
208V 60Hz

Limit: [FCC Part18] AV (<90k)<30m>



| Frequency[MHz] | Meter Reading (Ave.) [dBμV] | Factor[dB] | Level(Ave.) [dBμV/m] | Angle[°] | Height [cm] | Polar. | Limit [dBμV/m] | Margin[dB] |
|----------------|-----------------------------|------------|----------------------|----------|-------------|--------|----------------|------------|
| 0.024          | 24.7                        | 21.0       | 45.7                 | 28       | 200         | Hori.  | 63.5           | 17.8       |
| 0.024          | 19.3                        | 21.0       | 40.3                 | 75       | 200         | Vert.  | 63.5           | 23.2       |

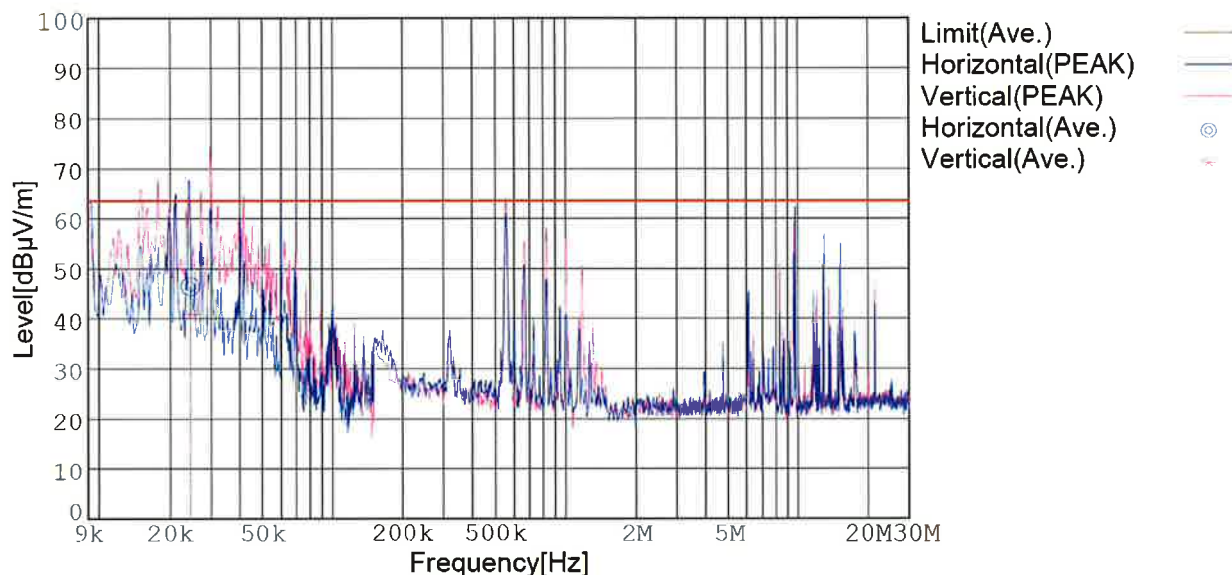
\*Hori. = X Axis, Vert. = Y Axis

# Radiated Emissions

Model Name : Commercial Induction Cooktop  
Model No. : KY-MK3500  
Serial No. : P3 00009  
Operator : M.Yamanaka  
Points : 2  
Detector : PEAK  
Polarization : Hori. & Vert.

Temp. : 24 deg.C  
Humi. : 68 %  
Date : 2016/10/4 13:07  
Test Equip. : ESI 26  
Comment : 986 hPa  
240V 60Hz

Limit: [FCC Part18] AV (<90k)<30m>



| Frequency[MHz] | Meter Reading (Ave.) [dBμV] | Factor[dB] | Level(Ave.) [dBμV/m] | Angle[°] | Height [cm] | Polar. | Limit [dBμV/m] | Margin[dB] |
|----------------|-----------------------------|------------|----------------------|----------|-------------|--------|----------------|------------|
| 0.024          | 25.5                        | 21.0       | 46.5                 | 25       | 200         | Hori.  | 63.5           | 17.0       |
| 0.024          | 19.8                        | 21.0       | 40.8                 | 57       | 200         | Vert.  | 63.5           | 22.7       |

\*Hori. = X Axis, Vert. = Y Axis

## **Appendix B : Test Equipment List**

### **Conducted Emissions (AC Power Port)**

Test equipment list used to perform the conducted emissions (AC Power Port).

| Device                               | Model No.                    | Serial. No. | Reg. No. | Frequency range | Last Cal.        | Next Cal.        |
|--------------------------------------|------------------------------|-------------|----------|-----------------|------------------|------------------|
| EMI test receiver                    | Rohde & Schwarz ESCI         | 100048      | RCV0770  | 9 kHz – 3 GHz   | 23 March, 2016   | 31 March, 2017   |
| Line impedance stabilization network | Kyoritsu Technology KNW-242C | 8-1312-5    | AMN0426  | 9 kHz – 30 MHz  | 26 January, 2016 | 31 January, 2017 |

| Device   | Model No.             | Version | Reg. No.  |
|----------|-----------------------|---------|-----------|
| Software | VITEC Co., Ltd. EMI96 | E26     | S-SW006-1 |

### **Radiated Emissions (Magnetic Field)**

Test equipment list used to perform the radiated emissions (magnetic field 9 kHz – 30 MHz).

| Device            | Model No.               | Serial. No. | Reg. No. | Frequency range  | Last Cal.          | Next Cal.          |
|-------------------|-------------------------|-------------|----------|------------------|--------------------|--------------------|
| EMI test receiver | Rohde & Schwarz ESI26   | 835336/006  | RCV0526  | 9 kHz – 26.5 GHz | 20 February, 2016  | 28 February, 2017  |
| Loop antenna      | Rohde & Schwarz HFH2-Z2 | 871398/33   | ANT0851  | 9 kHz – 30 MHz   | 10 September, 2016 | 30 September, 2017 |

| Device   | Model No.             | Version | Reg. No.  |
|----------|-----------------------|---------|-----------|
| Software | VITEC Co., Ltd. EMI96 | E26     | S-SW001-1 |