

EMC Test Report



Test report file No. : S16031-F

Date of issue: 17 June, 2016

Type : Countertop Induction Oven

Model : NU-HX100S

Serial No. : 42-19

EUT received : 1 June, 2016

Applicant : Panasonic Appliances Company of America

Kitchen Appliances Certification Liaison

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

Manufacturer : Panasonic Appliances Microwave Oven (Shanghai) Co., Ltd.

Address : 888,898 Long Dong Rd., Pu Dong New Area, Shanghai 201203, China

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



Compliance



Non-compliance

This test report with appendix consists of 22 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	 Masaki Yamanaka
Reviewed :	Manager, Quality System Representative and Responsible engineer	 Satoshi Arita
Approved by :	Laboratory Director, EMC Test Laboratory	 Tsutomu Inada

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DIRECTORY

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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 120 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 household cooking appliances.

It features an electric heater at the top and a induction heater at the bottom, Heating by selectively using the upper and lower heaters with Grill-plate, depending on the purpose of cooking.

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 7.1 dB at 0.0247 MHz

Max. limit exceeding dB at MHz

Remarks : -Temperature: 21 °C, Humidity: 51 %, Atmospheric pressure: 986 hPa

(6 June, 2016)

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

-The minimum margin was found with QP detector receiver on VB Phase (Line Phase) at Grill mode.

-Measurement uncertainty = 3.00 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 :

☒ - 10 m Anechoic Chamber

Test distance :

☐ - 3 meters

☒ - 10 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 24.9 dB at 0.025 MHz

Max. limit exceeding dB at MHz

Remarks : -Temperature: 17 °C, Humidity: 52 %, Atmospheric pressure: 987 hPa

(3 June, 2016)

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

-The minimum margin was found with Horizontal antenna polarization at Grill mode.

-Measurement uncertainty = 2.38 dB

-Test was performed at a distance of 10 m.

-Limit (Ave.)=20 x log(30 / 10) + 20 x log1500 = 73.1 (dBμV/m)

EQUIPMENT UNDER TEST

Operation - mode of the EUT :

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

- ☒ Grill mode
- ☒ Broil mode
- ☒ Combo 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	Countertop Induction Oven	NU-HX100S	42-19	Panasonic	April,2016	Pre

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

No.	Device	Equipment authorization	FCC ID
A	Countertop Induction Oven	Certification	ACLAPBV00

< 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	Cable type	Pin	Length (m)	Shielded	Ferrite quantity	Ground line
	Manufacturer / Type						
1	AC Cable for EUT	e	3	1.05	Unshielded	None	YES
	ZHEJIANG YUEHUA TELECOMMUNICATION CO.,LTD / F900CBV00AP						

Note :

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

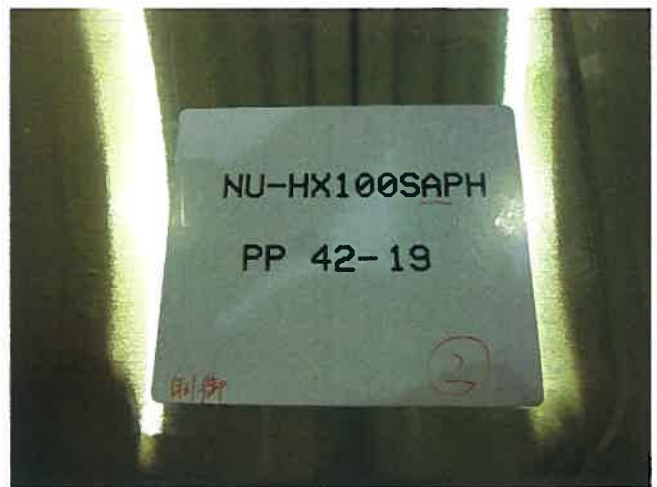
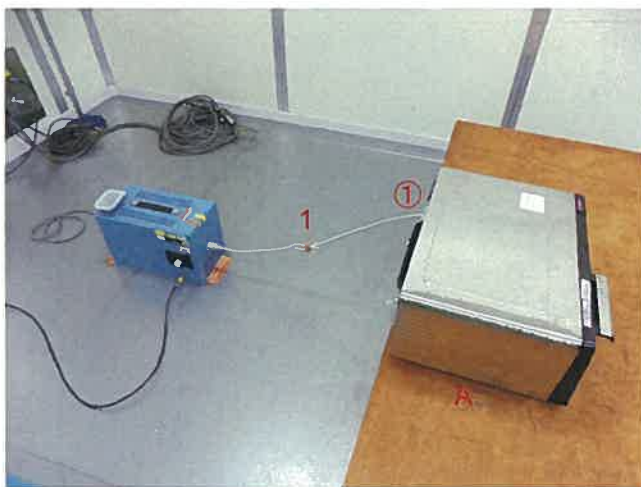
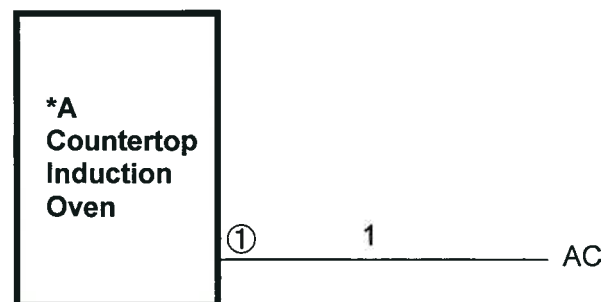
-(*A) Packed together with the Box Computer.

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. (The selection and mounting procedure of the cable is designated in the instruction manual.)
e	Fixed cable
f	Enclosed ferrite (Setting up method of the ferrite is designated in the instruction manual.)
g	Commercially available ferrite. (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)

Drawing :



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 : 3 June, 2016

Testing End Date : 6 June, 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 Appliances Microwave Oven (Shanghai) Co., Ltd.

Address : 888,898 Long Dong Rd., Pu Dong New Area, Shanghai 201203,China

Factory : Panasonic Appliances Microwave Oven (Shanghai) Co., Ltd.

Address : 888,898 Long Dong Rd.,Pu Dong New Area,Shanghai 201203,China

Type	: <u>Countertop Induction Oven</u>	Rated voltage	: <u>120 V</u>
Model	: <u>NU-HX100S</u>	Rated input power	: <u>1710 W</u>
Serial No	: <u>42-19</u>	Protection class	: <u>Class I</u>

Configuration of equipment:

Countertop Induction Oven : 42-19

Source of interference & internal frequencies:

Source	frequency	Source	frequency
Micro computer	: 20 MHz		:
Switching DC power supply	: 44 kHz		:
Inveter for Induction heating	: 47 kHz – 24 kHz		:
	:		:
	:		:
	:		:
	:		:

Noise suppression components:

None

Measures for electromagnetic shielding:

None

Place of issue : Shiga Japan

Date : 10 June, 2016

Seal and signature of applicant :

Yuji Fujii
Yuji Fujii

Section of the signer :

Microwave Oven Engineering Department

C) Appendix

Appendix A : Test Data

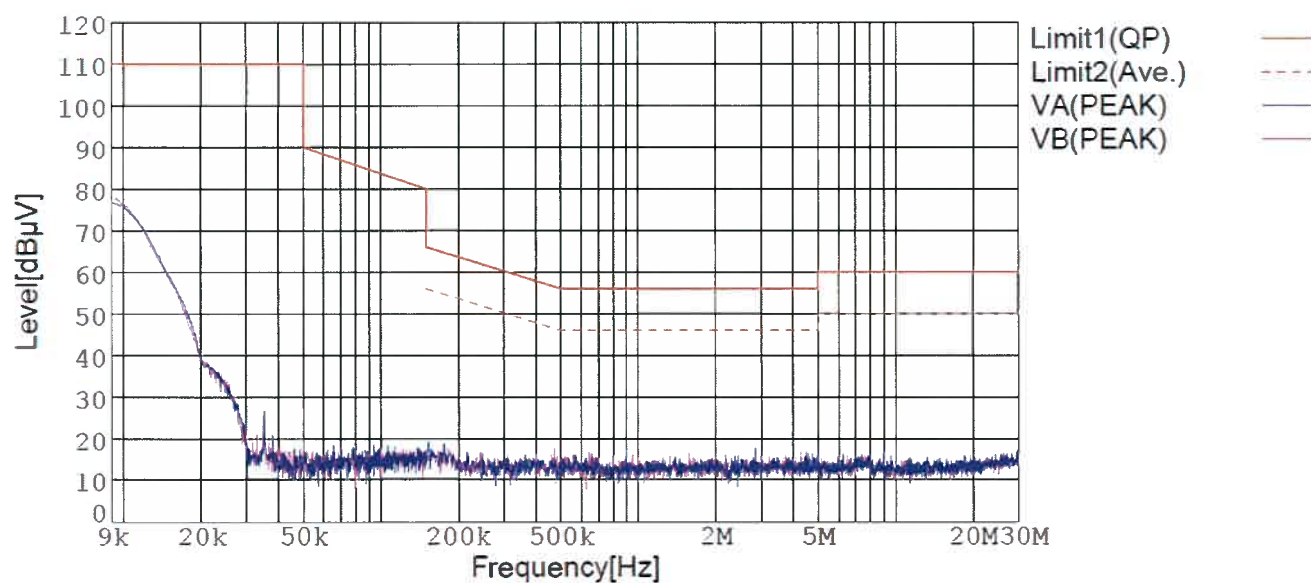
Conducted Emissions (Mains Port)

Conducted Emissions

Model Name	: Floor noise	Temp.	: deg.C
Model No.	:	Humi.	: %
Serial No.	:	Pressure	: hPa
Operator	: M.Kikuta	Date	: 2016/6/6 17:58
Bands	: 7	Test Equip.	: ESCI-3
Detector	: PEAK	Voltage / Frequency	:
		Comment	:

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

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

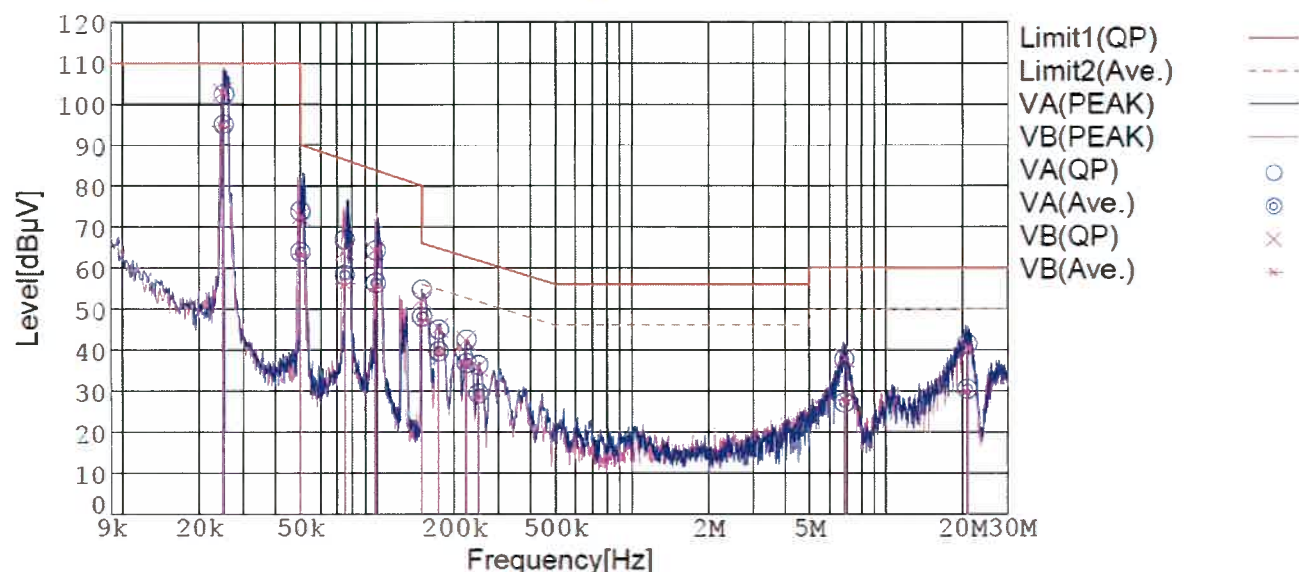


Conducted Emissions

Model Name	: Countertop Induction Oven	Temp.	: 21deg.C
Model No.	: NU-HX100S	Humi.	: 51%
Serial No.	: 42-19	Pressure	: 986hPa
Operator	: M.Kikuta	Date	: 2016/6/6 14:11
Points	: 20	Test Equip.	: ESCI-3
Detector	: PEAK	Voltage / Frequency	: 120V 60Hz
		Comment	: Grill Mode

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]
0.0251	91.7	84.4	10.8	102.5	95.2	VA	110.0	—	7.5	—
0.0501	63.6	53.6	10.2	73.8	63.8	VA	90.0	—	16.2	—
0.0747	56.7	48.1	10.1	66.8	58.2	VA	86.4	—	19.6	—
0.0991	54.1	46.2	10.1	64.2	56.3	VA	83.8	—	19.6	—
0.1500	44.6	38.0	10.1	54.7	48.1	VA	66.0	56.0	11.3	7.9
0.1746	34.8	29.5	10.1	44.9	39.6	VA	64.7	54.7	19.8	15.1
0.2243	32.4	26.6	10.1	42.5	36.7	VA	62.7	52.7	20.2	16.0
0.2491	26.2	19.3	10.1	36.3	29.4	VA	61.8	51.8	25.5	22.4
6.8520	27.4	16.8	10.3	37.7	27.1	VA	60.0	50.0	22.3	22.9
20.8800	30.6	19.6	10.8	41.4	30.4	VA	60.0	50.0	18.6	19.6
0.0247	92.0	83.8	10.9	102.9	94.7	VB	110.0	—	7.1	—
0.0501	62.4	53.0	10.2	72.6	63.2	VB	90.0	—	17.4	—
0.0750	54.0	46.0	10.1	64.1	56.1	VB	86.3	—	22.2	—
0.0981	54.1	45.0	10.1	64.2	55.1	VB	83.9	—	19.7	—
0.1502	42.3	36.8	10.1	52.4	46.9	VB	66.0	56.0	13.6	9.1
0.1745	35.3	29.5	10.1	45.4	39.6	VB	64.8	54.8	19.4	15.2
0.2230	32.3	26.5	10.1	42.4	36.6	VB	62.7	52.7	20.3	16.1
0.2497	25.7	18.6	10.1	35.8	28.7	VB	61.8	51.8	26.0	23.1
6.9000	27.6	17.3	10.4	38.0	27.7	VB	60.0	50.0	22.0	22.3
20.7900	29.6	18.9	10.8	40.4	29.7	VB	60.0	50.0	19.6	20.3

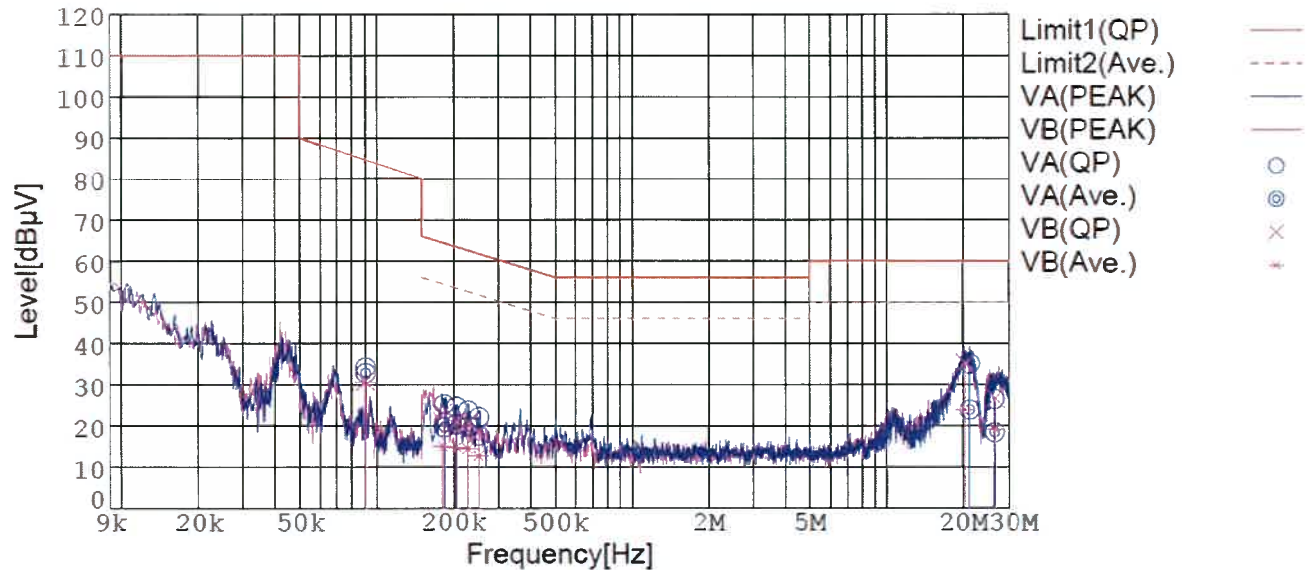
*VA = Neutral Phase, VB = Line Phase

Conducted Emissions

Model Name	: Countertop Induction Oven	Temp.	: 21deg.C
Model No.	: NU-HX100S	Humi.	: 51%
Serial No.	: 42-19	Pressure	: 986hPa
Operator	: M.Kikuta	Date	: 2016/6/6 15:11
Points	: 14	Test Equip.	: ESCI-3
Detector	: PEAK	Voltage / Frequency	: 120V 60Hz
		Comment	: Broil Mode

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]
0.0905	24.0	22.7	10.1	34.1	32.8	VA	84.6	—	50.5	—
0.1835	15.2	9.5	10.1	25.3	19.6	VA	64.3	54.3	39.0	34.7
0.2047	14.5	10.3	10.1	24.6	20.4	VA	63.4	53.4	38.8	33.0
0.2275	13.6	9.8	10.1	23.7	19.9	VA	62.6	52.6	38.9	32.7
0.2508	12.0	7.5	10.1	22.1	17.6	VA	61.7	51.7	39.6	34.1
21.0800	24.2	13.0	10.8	35.0	23.8	VA	60.0	50.0	25.0	26.2
26.3900	15.4	7.4	11.0	26.4	18.4	VA	60.0	50.0	33.6	31.6
0.0905	20.8	20.5	10.1	30.9	30.6	VB	84.6	—	53.7	—
0.1815	13.0	4.8	10.1	23.1	14.9	VB	64.4	54.4	41.3	39.5
0.2058	10.9	4.7	10.1	21.0	14.8	VB	63.4	53.4	42.4	38.6
0.2271	10.7	4.3	10.1	20.8	14.4	VB	62.6	52.6	41.8	38.2
0.2507	8.2	2.6	10.1	18.3	12.7	VB	61.7	51.7	43.4	39.0
20.3300	24.3	13.1	10.8	35.1	23.9	VB	60.0	50.0	24.9	26.1
26.6000	15.8	8.1	10.9	26.7	19.0	VB	60.0	50.0	33.3	31.0

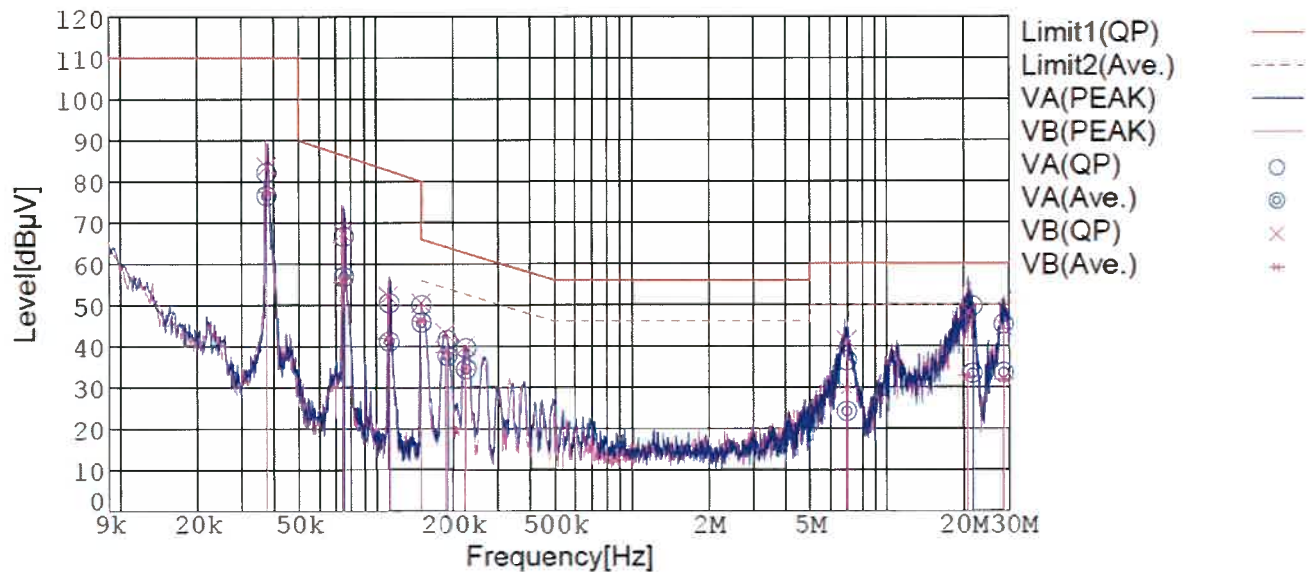
*VA = Neutral Phase, VB = Line Phase

Conducted Emissions

Model Name	: Countertop Induction Oven	Temp.	: 21deg.C
Model No.	: NU-HX100S	Humi.	: 51%
Serial No.	: 42-19	Pressure	: 986hPa
Operator	: M.Kikuta	Date	: 2016/6/6 15:25
Points	: 18	Test Equip.	: ESCI-3
Detector	: PEAK	Voltage / Frequency	: 120V 60Hz
		Comment	: Combo Mode

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]
0.0374	71.9	66.2	10.3	82.2	76.5	VA	110.0	—	27.8	—
0.0749	56.5	46.8	10.1	66.6	56.9	VA	86.3	—	19.7	—
0.1124	40.4	31.1	10.1	50.5	41.2	VA	82.6	—	32.1	—
0.1500	39.9	35.7	10.1	50.0	45.8	VA	66.0	56.0	16.0	10.2
0.1893	31.4	27.5	10.1	41.5	37.6	VA	64.1	54.1	22.6	16.5
0.2245	29.4	24.4	10.1	39.5	34.5	VA	62.7	52.7	23.2	18.2
6.9500	26.1	13.8	10.3	36.4	24.1	VA	60.0	50.0	23.6	25.9
21.5500	38.8	22.5	10.8	49.6	33.3	VA	60.0	50.0	10.4	16.7
28.5400	34.1	22.3	11.2	45.3	33.5	VA	60.0	50.0	14.7	16.5
0.0374	73.2	67.0	10.4	83.6	77.4	VB	110.0	—	26.4	—
0.0742	57.3	45.5	10.1	67.4	55.6	VB	86.4	—	19.0	—
0.1114	42.2	31.8	10.1	52.3	41.9	VB	82.7	—	30.4	—
0.1501	40.5	35.9	10.1	50.6	46.0	VB	66.0	56.0	15.4	10.0
0.1864	33.1	28.4	10.1	43.2	38.5	VB	64.2	54.2	21.0	15.7
0.2236	29.9	24.3	10.1	40.0	34.4	VB	62.7	52.7	22.7	18.3
6.9620	31.0	19.3	10.4	41.4	29.7	VB	60.0	50.0	18.6	20.3
20.6300	37.4	21.8	10.8	48.2	32.6	VB	60.0	50.0	11.8	17.4
28.7300	33.4	20.9	11.1	44.5	32.0	VB	60.0	50.0	15.5	18.0

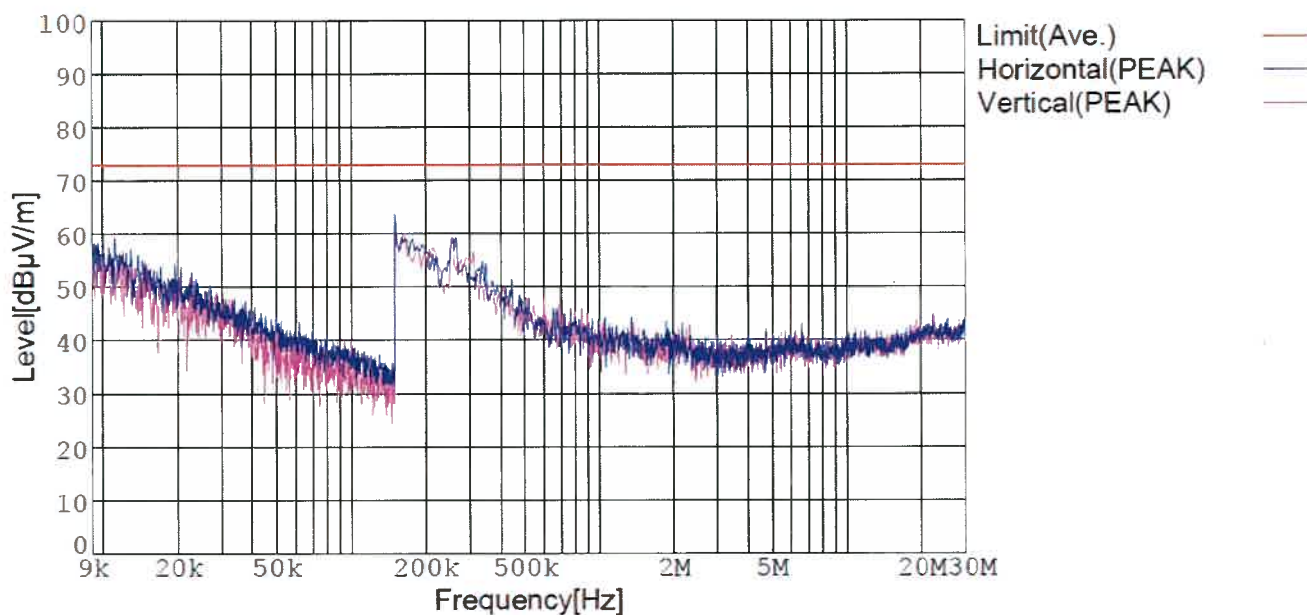
*VA = Neutral Phase, VB = Line Phase

Radiated Emissions (Below 1 GHz : Magnetic Field)

Radiated Emissions

Model Name	: Floor Noise	Temp.	: 21deg.C
Model No.	:	Humi.	: 47%
Serial No.	:	Pressure	: 982hPa
Operator	: T.Gotoh	Date	: 2016/6/2 16:31
Bands	: 2	Test Equip.	: N9038A
Detector	: PEAK	Voltage / Frequency	:
		Comment	:

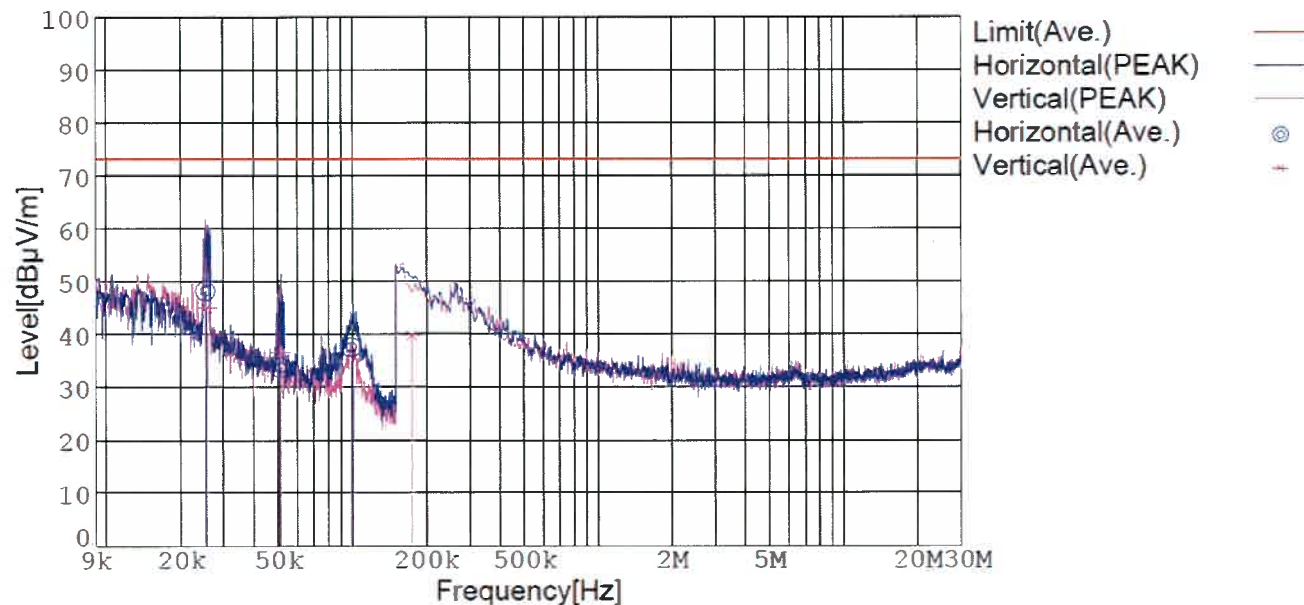
Limit: [FCC Part18] AV (<90k)<10m>



Radiated Emissions

Model Name	: Countertop Induction Oven	Temp.	: 17deg.C
Model No.	: NU-HX100S	Humi.	: 52%
Serial No.	: 42-19	Pressure	: 987hPa
Operator	: T.Gotoh	Date	: 2016/6/3 9:36
Points	: 6	Test Equip.	: N9038A
Detector	: PEAK	Voltage / Frequency	: 120V 60Hz
		Comment	: Grill Mode

Limit: [FCC Part18] AV (<90k)<10m>

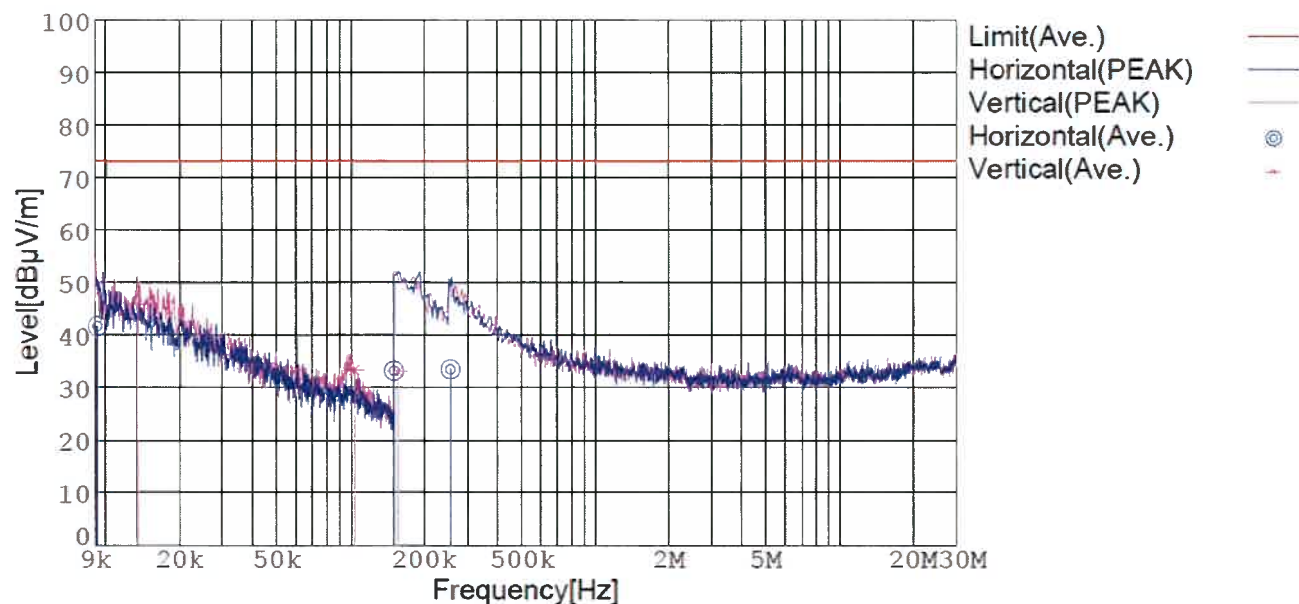


Frequency[MHz]	Meter Reading (Ave.) [dBμV]	Factor[dB]	Level(Ave.) [dBμV/m]	Angle[°]	Height [cm]	Polar.	Limit [dBμV/m]	Margin[dB]
0.025	27.5	20.7	48.2	70	200	Hori.	73.1	24.9
0.051	13.5	20.2	33.7	281	200	Hori.	73.1	39.4
0.099	17.6	20.0	37.6	70	200	Hori.	73.1	35.5
0.026	24.4	20.7	45.1	180	200	Vert.	73.1	28.0
0.051	16.3	20.2	36.5	175	200	Vert.	73.1	36.6
0.175	19.9	19.9	39.8	247	200	Vert.	73.1	33.3

Radiated Emissions

Model Name	: Countertop Induction Oven	Temp.	: 17deg.C
Model No.	: NU-HX100S	Humi.	: 52%
Serial No.	: 42-19	Pressure	: 987hPa
Operator	: T.Gotoh	Date	: 2016/6/3 12:57
Points	: 6	Test Equip.	: N9038A
Detector	: PEAK	Voltage / Frequency	: 120V 60Hz
		Comment	: Broil Mode

Limit: [FCC Part18] AV (<90k)<10m>

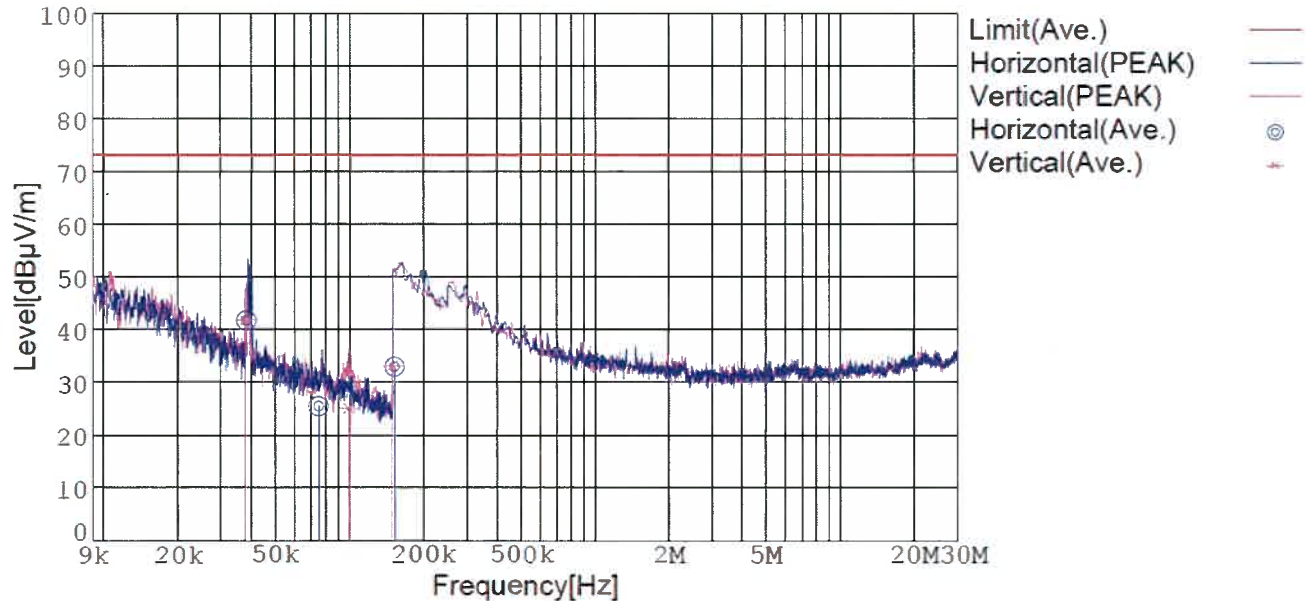


Frequency[MHz]	Meter Reading (Ave.) [dBμV]	Factor[dB]	Level(Ave.) [dBμV/m]	Angle[°]	Height [cm]	Polar.	Limit [dBμV/m]	Margin[dB]
0.009	18.9	22.8	41.7	46	200	Hori.	73.1	31.4
0.150	13.3	19.9	33.2	120	200	Hori.	73.1	39.9
0.256	13.6	19.9	33.5	116	200	Hori.	73.1	39.6
0.013	24.1	21.8	45.9	48	200	Vert.	73.1	27.2
0.103	13.3	20.0	33.3	41	200	Vert.	73.1	39.8
0.156	13.2	19.9	33.1	337	200	Vert.	73.1	40.0

Radiated Emissions

Model Name	: Countertop Induction Oven	Temp.	: 17deg.C
Model No.	: NU-HX100S	Humi.	: 52%
Serial No.	: 42-19	Pressure	: 987hPa
Operator	: T.Gotoh	Date	: 2016/6/3 11:33
Points	: 6	Test Equip.	: N9038A
Detector	: PEAK	Voltage / Frequency	: 120V 60Hz
		Comment	: Combo Mode

Limit: [FCC Part18] AV (<90k)<10m>



Frequency [MHz]	Meter Reading (Ave.) [dBμV]	Factor [dB]	Level(Ave.) [dBμV/m]	Angle [°]	Height [cm]	Polar.	Limit [dBμV/m]	Margin [dB]
0.038	21.4	20.3	41.7	275	200	Hori.	73.1	31.4
0.075	5.4	20.1	25.5	302	200	Hori.	73.1	47.6
0.152	13.0	19.9	32.9	147	200	Hori.	73.1	40.2
0.038	21.4	20.3	41.7	15	200	Vert.	73.1	31.4
0.100	5.1	20.0	25.1	29	200	Vert.	73.1	48.0
0.150	13.3	19.9	33.2	59	200	Vert.	73.1	39.9

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	4 March, 2016	31 March, 2017
line impedance stabilization network (for EUT)	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	Agilent technologies N9038A	MY51210144	RCV1001	9 kHz - 26.5 GHz	14 November, 2015	30 November, 2016
Loop antenna	Rohde & Schwarz HFH2-Z2	871398/33	ANT0851	9 kHz - 30 MHz	19 September, 2015	30 September, 2016

Device	Model No.	Version	Reg. No.
Software	VITEC Co., Ltd. EMI96	E26	S-SW003-1