

EVALUATION REPORT

for Certification of Conformity

FCC Part 18

Applicant: LG Electronics USA, Inc.
111 Sylvan Avenue North Building
Englewood Cliffs New Jersey United States 07632,
Attn: David Kim / Team leader

Date of Issue: Oct. 21, 2024
Order Number: GETEC-C1-24-735
Test Report Number: GETEC-E3-24-132
Test Site: GUMI UNIVERSITY EMC CENTER
CAB Designation Number: KR0033

FCC ID. : BEJQ40A41IA
Applicant: LG Electronics USA, Inc.

Rule Part(s) : FCC Part 18
Test Method : FCC/OET MP-5
EUT Type : HOUSEHOLD COOKTOP
Equipment Class : Part 18 Consumer Device(8CC)
Type of Authority : Certification
Model Name : CBIH3017BE
Trade Mark : LG

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC/OET MP-5 (1986)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the vest of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested by,



**Tak Dong Kim, Associate Engineer
GUMI UNIVERSITY EMC CENTER**

Reviewed by,



**Hyun Kim, Technical Manager
GUMI UNIVERSITY EMC CENTER**



Revision list

Test Report No.	Issue Date	Description
GETEC-E3-24-132	Oct. 21, 2024	First Approval Test Report

※ This test report is not related to the accredited test result by ISO/IEC 17025 and KOLAS





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Scope: Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and / or unintentional radiators for compliance with technical rules and regulations of the Federal Communications Commission.

1. General Information

Applicant: LG Electronics USA, Inc.

**Applicant Address: 111 Sylvan Avenue North Building
Englewood Cliffs New Jersey United States 07632**

Manufacturer: LG Electronics Inc.

**Manufacturer Address: 170, Sungsanpaechong-ro, Seongsan-gu, Changwon-si,
Gyeongsangnam-do, 51533, Korea**

Manufacturer: Shinsung Delta Tech Co., LTD.

**1. Manufacturer Address: 39, Gongdan-ro 271 beon-gil, Seongsan-gu, Changwon-si,
Gyeongsangnam-do, 51558, Korea**

**2. Manufacturer Address: Standard Factory 6, 200 Free Trade 3-gil, Masanhoewon-gu,
Changwon-si, Gyeongsangnam-do, 51340, Korea**

Contact Person: David Kim / Team leader

Telephone Number: 1-201-266-2443



- **FCC ID.** BEJQ40A41IA
- **EUT Type** HOUSEHOLD COOKTOP
- **Model Name** CBIH3017BE
- **Rule Part(s)** FCC Part 18
- **Test Method** FCC/OET MP-5
- **Type of Authority** Certification
- **Test Procedure(s)** FCC/OET MP-5
- **Dates of Test** Oct. 08, 2024 ~ Oct. 16, 2024
- **Place of Test**
GUMI UNIVERSITY EMC CENTER
(FCC Test Firm Registration Number: 269701)
(ISED Test Site Registration Number: 7920A)
37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 39213, Republic of Korea.
- **Test Report Number** GETEC-E3-24-132
- **Dates of Issue** Oct. 21, 2024



2. Introduction

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2017) was used in determining radiated and conducted emissions emanating from **HOUSEHOLD COOKTOP (Model name:CBIH3017BE)**.

These measurement tests were conducted at **GUMI UNIVERSITY EMC CENTER**

The site address is 37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 39213, Republic of Korea.

This test site is one of the highest point of Gumi UNIVERSITY at about 200 km away from Seoul city and 40 km away from Daegu city. It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures. The detailed description of the measurement facility was found to be in compliance with the requirements of §2.948 according to ANSI C63.4 (2017)

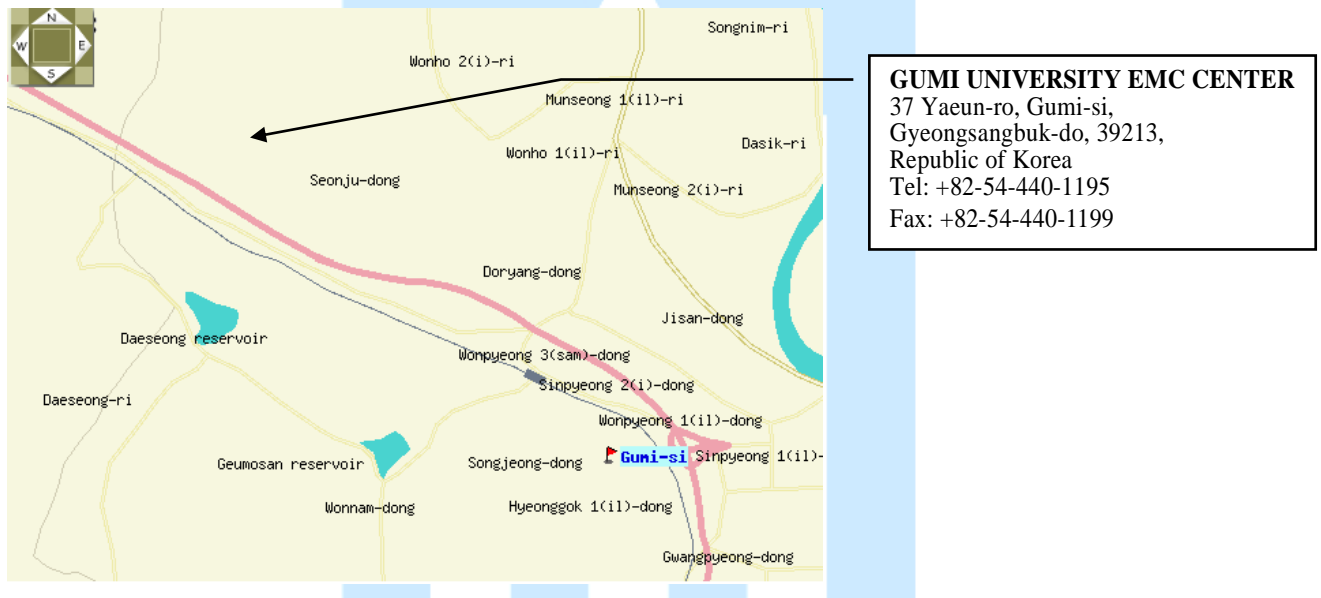


Fig 1. The map above shows the GUMI UNIVERSITY in vicinity area.



3. Product Information

3.1 Description of EUT

The Equipment under Test (EUT) is the **HOUSEHOLD COOKTOP (Model Name:CBIH3017BE)**
FCC ID.: BEJQ40A41IA

Models		CBIH3017BE
Description		Induction Cooktop
Electrical Specifications	Connection voltage	240/208 VAC 60 Hz., 36.7 A / 34.6 A
	Maximum connected power load	8800 W / 7197 W
Cooktop Dimensions		30 11/16" (781 mm) (W) × 4 1/8" (105mm) (H) × 21 1/16" (534 mm) (D)
Countertop Cutout Dimensions		Standard Installation 28 1/2" (724 mm) (W) × 5 7/8" (149 mm) (H) × 19 5/8" (498 mm) (D)

Models	CBIH3017BE		
Cooking Zones	Position	Size	Power (Level 9 / Boost)
	Front Left	8 1/2" x 7 1/4" (216.2 x 185 mm)	1513/3026 W (208 V) 1850/3700 W (240 V)
	Front Right	6 1/2" (165 mm)	1145/1472 W (208 V) 1400/1800 W (240 V)
	Flex Left	8 1/2" x 14 9/16" (216.2 x 370 mm)	2699/3026 W (208 V) 3300/3700 W (240 V)
	Rear Left	8 1/2" x 7 1/4" (216.2 x 185 mm)	1513/3026 W (208 V) 1850/3700 W (240 V)
	Center	11 1/8", 7 1/16" (283, 180 mm)	Inner Burner: 1513/3026 W (208 V) 1850/3700 W (240 V) Dual Burner: 3026/4089 W (208 V) 3700/5000 W (240 V)

RF Module Specifications

Type	Frequency Range	Output Power (Max)
Wi-Fi	2412 MHz - 2462 MHz	< 30 dBm
Bluetooth	2402 MHz - 2480 MHz	

Induction heating mode

Cooking Element	Low frequency (Maximum power)	High frequency (Minimum power)
#1 Left Front Hob	30 kHz	65 kHz
#2 Left Rear Hob	30 kHz	65 kHz
#3 Center	30 kHz	65 kHz
#4 Right Front Hob	30 kHz	65 kHz



3.2 Support Equipment / Cables used

3.3.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID.
None	-	-	S/N: - FCC ID.: -

See "Appendix D – Test Setup Photographs" for actual system test set-up

3.3.2 System configuration

Description	Manufacturer	Model Name	S/N & FCC ID.
WLAN module	LG Electronics Inc.	LCWB-001	S/N: -. FCC ID.: BEJ-LCWB001

3.3.3 Used Cable(s)

Cable Name	Condition	Description
Power cable	Connected to the EUT and AC power	1.80 m Unshielded.

3.3 Modification Item(s)

-. None



4. Description of tests

4.1 Test Condition

The EUT was installed, arranged and operated in a manner that is most representative of equipment as typically used. The measurements were carried out while varying operating modes and cable positions within typically arrangement to determine maximum emission level.

The representative and worst test mode(s) were noted in the test report.

- Test Voltage / Frequency: AC 208V/ 60 Hz, AC 240 V / 60 Hz
- Operating condition during the test(s) :
 This device has been tested in the configurations of Induction mode with WLAN module operating.
Induction mode: This device has been operated (boost mode) with an enameled steel vessel filled with tap water up to 80 % of its maximum capacity.

Cooking element "1"= left front hob ,"2"= left rear hob, "3"= Center hob, "4"= right hob

Cooking vessels

"1" ,"2"= 215 mm x 180 mm

"3"= 300 mm

"4"=180 mm

4.2 General Test Procedures

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 (2017) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which Fixed at 2 m above the ground plane to find out the highest emission.

And also, each emission was to be maximized by the table was turned from 0 degrees to 360 degrees. In order to find out the max emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4 (2017).

5. Summary of Test Results

FCC Part Section(s)	Test Description	Test Result
§18.305	Radiated Emission	Pass
§18.307	Conducted Emission	Pass



6. Conducted Emission

-Test Description

The Line conducted emission test facility is inside a 4 m × 8 m × 2.5 m shielded enclosure.
(FCC Test Firm Registration No.: 269701)

The EUT was placed on a non-conducting 1.0 m by 1.5 m table, which is 0.8 m in height and 0.4 m away from the vertical wall of the shielded enclosure.

The EUT is powered from the Rohde & Schwarz LISN and the support equipment is powered from the Rohde & Schwarz LISN Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver

Exploratory measurements were conducted to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Exploratory measurements were scanned using Peak mode of EMI Test receiver from 150 kHz to 30 MHz with 20 ms sweep time. The final measurements were measured with Quasi-Peak and Average mode.

The bandwidth of EMI Test Receiver was set to 9 kHz. Interface cables were connected to the available interface ports of the test unit. Excess cable lengths were bundled at center with 30 cm ~ 40 cm.

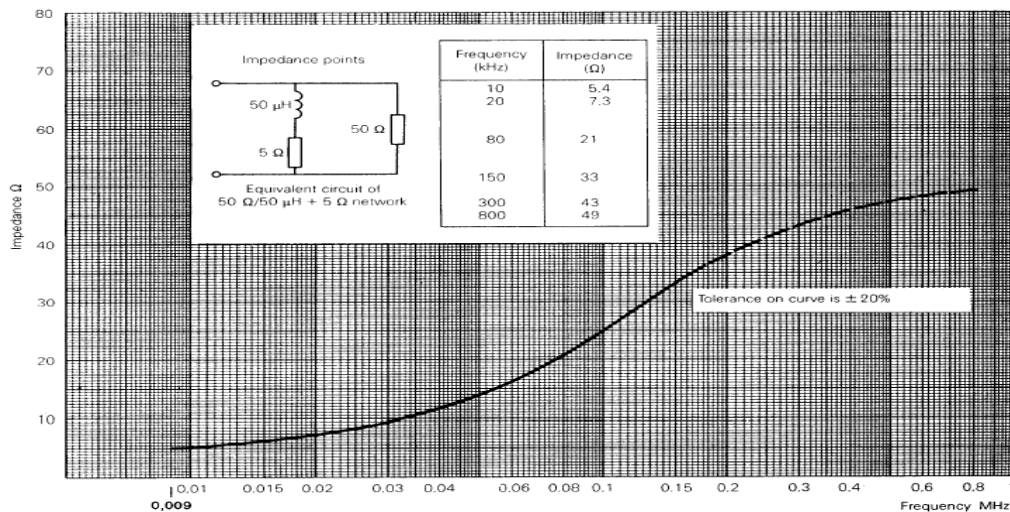


Fig 2. Impedance of LISN



6.1 Operating Environment

Temperature : 21.6 °C
Relative Humidity : 43.3 %
Air Pressure : 100.9 kPa

6.2 Test Set-up

The conducted emission measurements were performed in the shielded room.

The EUT was placed on wooden table, 0.8 m heights above the floor, 0.4 m from the reference ground plane (GRP) wall and 0.8 m from AMN & ISN.

AMN is bonded on horizontal reference ground plane.

The ground plane, which was electrically bonded to the shield room, ground system and all power lines entering the shield room, were filtered.

6.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO “Guide to the expression of uncertainty in measurement.”

The measurement uncertainty was given with a confidence of 95 %.

Test Items	Uncertainty	Remark
Conducted emission (9 kHz ~ 150 kHz)	3.83 dB	Confidence level of approximately 95 % ($k = 2$)
Conducted emission (150 kHz ~ 30 MHz)	3.44 dB	Confidence level of approximately 95 % ($k = 2$)

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

The listed uncertainties are the worst case uncertainty for the entire range of measurement. please note that the uncertainty values are provided for informational purposes only are not used in determining the PASS/FAIL results



6.4 Limit

RFI Conducted	FCC Limit(dB μ V/m)	
	Quasi-Peak	Average
0.009 MHz ~ 0.05 MHz	110	-
0.05 MHz ~ 0.15 MHz	90 ~ 80*	-
0.15 MHz ~ 0.5 MHz	66 ~ 56*	56 ~ 46*
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50
*Limits decreases linearly with the logarithm of frequency.		

6.5 Test Equipment used

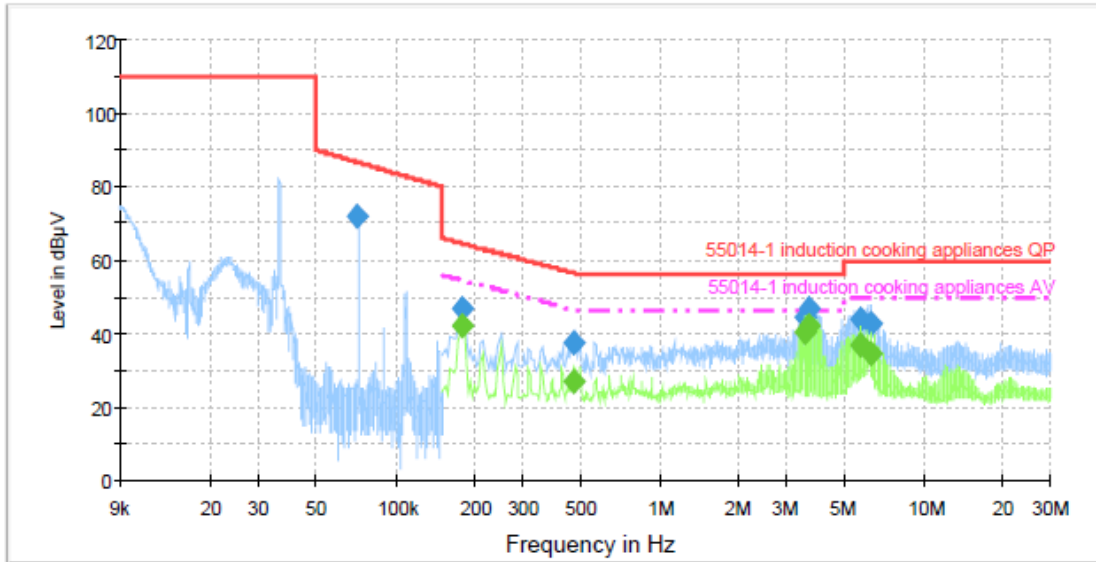
Model Name	Manufacturer	Description	Serial Number	Calibration Date
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100237	Apr. 03, 2024
□ - ENV216	Rohde & Schwarz	LISN	100173	Apr. 03, 2024
□ - ENV216	Rohde & Schwarz	LISN	100172	Apr. 03, 2024
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	Apr. 04, 2024
■ - VTSD 9561-D	SCHWARZBECK	Pulse Limiter	32	Apr. 04, 2024
■ - EMC 32	Rohde & Schwarz	Software	Ver.8.53	N/A

6.6 Test data for Conducted Emission

- Test Date : Oct. 08, 2024 ~ Oct. 10, 2024
- Resolution Bandwidth : 200 Hz (9 kHz ~ 0.15 MHz) / 9 kHz (0.15 MHz ~ 30 MHz)
- Frequency Range : 9 kHz ~ 30 MHz
- Line : L1: Live, L2: Live
- Comment : None



- Operating condition: Induction mode with WLAN
- AC 208 V / 60 Hz**
Cooking element #1



— 55014-1 induction cooking appliances QP - - - 55014-1 induction cooking appliances AV
— Preview Result 1-PK+ ◆ Final Result 1-QPK
— Preview Result 2-AVG ◆ Final Result 2-CAV

Final Result 1

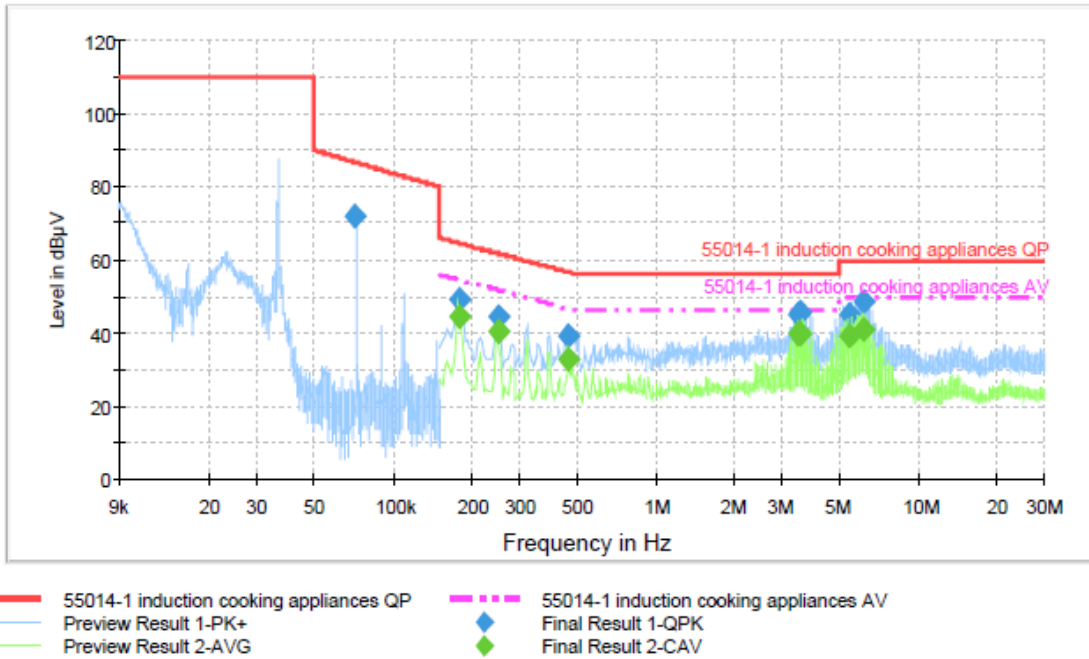
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.071309	71.9	1000.0	0.200	GND	L1	20.2	14.9	86.8	
0.178000	46.8	1000.0	9.000	GND	L1	20.7	17.7	64.6	
0.473081	37.5	1000.0	9.000	GND	L1	20.7	18.9	56.5	
3.544706	44.6	1000.0	9.000	GND	L1	20.7	11.4	56.0	
3.682494	47.0	1000.0	9.000	GND	L1	20.8	9.0	56.0	
5.689638	43.9	1000.0	9.000	GND	L1	20.8	16.1	60.0	
6.261056	42.9	1000.0	9.000	GND	L1	20.8	17.1	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.178000	42.0	1000.0	9.000	GND	L1	20.7	12.6	54.6	
0.473081	27.2	1000.0	9.000	GND	L1	20.7	19.3	46.5	
3.544706	40.2	1000.0	9.000	GND	L1	20.7	5.8	46.0	
3.682494	42.1	1000.0	9.000	GND	L1	20.8	3.9	46.0	
5.689638	36.8	1000.0	9.000	GND	L1	20.8	13.2	50.0	
6.261056	34.6	1000.0	9.000	GND	L1	20.8	15.4	50.0	



Cooking element #2



Final Result 1

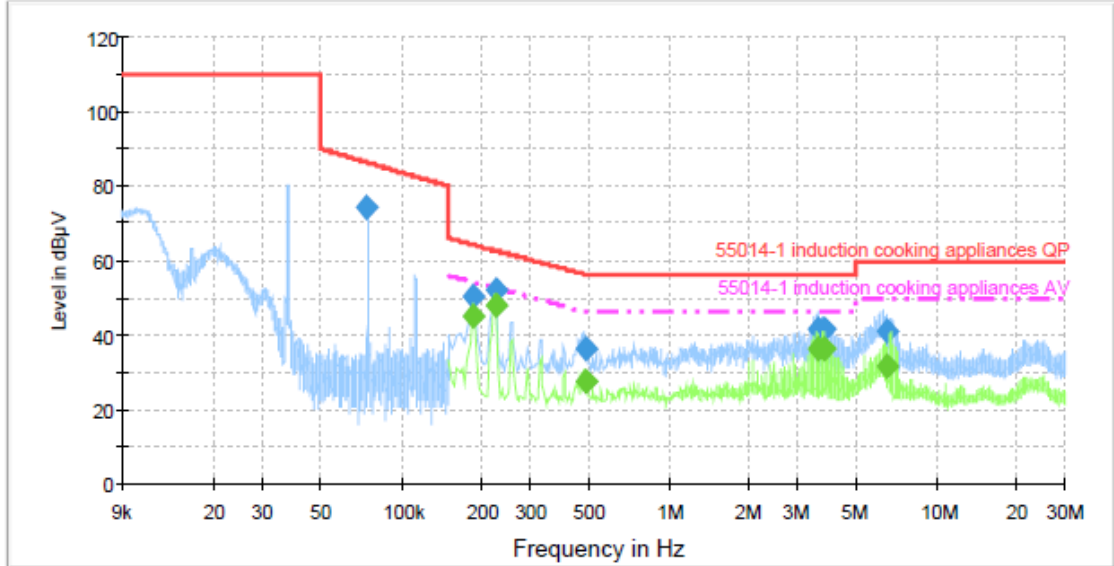
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.071696	71.7	1000.0	0.200	GND	L2	20.1	15.0	86.7	
0.178000	49.1	1000.0	9.000	GND	L2	20.6	15.5	64.6	
0.250012	44.2	1000.0	9.000	GND	L2	20.6	17.6	61.8	
0.466425	39.2	1000.0	9.000	GND	L2	20.6	17.4	56.6	
3.472738	44.8	1000.0	9.000	GND	L1	20.7	11.2	56.0	
3.543362	45.5	1000.0	9.000	GND	L1	20.7	10.5	56.0	
5.479612	45.0	1000.0	9.000	GND	L1	20.7	15.0	60.0	
6.119806	48.6	1000.0	9.000	GND	L2	20.7	11.4	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.178000	44.7	1000.0	9.000	GND	L2	20.6	9.9	54.6	
0.250012	40.2	1000.0	9.000	GND	L2	20.6	11.6	51.8	
0.466425	32.7	1000.0	9.000	GND	L2	20.6	13.9	46.6	
3.472738	39.6	1000.0	9.000	GND	L1	20.7	6.4	46.0	
3.543362	39.9	1000.0	9.000	GND	L1	20.7	6.1	46.0	
5.479612	39.4	1000.0	9.000	GND	L1	20.7	10.6	50.0	
6.119806	40.8	1000.0	9.000	GND	L2	20.7	9.2	50.0	



Cooking element #3



- 55014-1 induction cooking appliances QP
- - - 55014-1 induction cooking appliances AV
- Preview Result 1-PK+
- Preview Result 2-AVG
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.073794	74.2	1000.0	0.200	GND	L1	20.2	12.3	86.5	
0.184069	50.4	1000.0	9.000	GND	L1	20.7	13.9	64.3	
0.223894	51.8	1000.0	9.000	GND	L2	20.6	10.9	62.7	
0.485888	36.4	1000.0	9.000	GND	L1	20.7	19.8	56.2	
3.575362	41.7	1000.0	9.000	GND	L2	20.7	14.3	56.0	
3.784044	41.3	1000.0	9.000	GND	L2	20.7	14.7	56.0	
6.492125	40.9	1000.0	9.000	GND	L2	20.7	19.1	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.184069	45.1	1000.0	9.000	GND	L1	20.7	9.2	54.3	
0.223894	47.8	1000.0	9.000	GND	L2	20.6	4.9	52.7	
0.485888	27.4	1000.0	9.000	GND	L1	20.7	18.8	46.2	
3.575362	36.5	1000.0	9.000	GND	L2	20.7	9.5	46.0	
3.784044	36.2	1000.0	9.000	GND	L2	20.7	9.8	46.0	
6.492125	31.7	1000.0	9.000	GND	L2	20.7	18.3	50.0	



Cooking element #4



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.070841	69.4	1000.0	0.200	GND	L2	20.1	17.4	86.8	
0.208700	48.6	1000.0	9.000	GND	L1	20.7	14.7	63.3	
0.481350	38.3	1000.0	9.000	GND	L2	20.6	18.1	56.3	
2.011431	33.9	1000.0	9.000	GND	L2	20.6	22.1	56.0	
3.804044	34.0	1000.0	9.000	GND	L2	20.7	22.0	56.0	
5.995094	39.4	1000.0	9.000	GND	L2	20.7	20.6	60.0	
21.780400	31.9	1000.0	9.000	GND	L1	21.0	28.1	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.208700	44.3	1000.0	9.000	GND	L1	20.7	8.9	53.3	
0.481350	28.2	1000.0	9.000	GND	L2	20.6	18.1	46.3	
2.011431	22.9	1000.0	9.000	GND	L2	20.6	23.1	46.0	
3.804044	26.8	1000.0	9.000	GND	L2	20.7	19.2	46.0	
5.995094	29.2	1000.0	9.000	GND	L2	20.7	20.8	50.0	
21.780400	26.2	1000.0	9.000	GND	L1	21.0	23.8	50.0	



AC 240 V / 60 Hz
Cooking element #1



Final Result 1

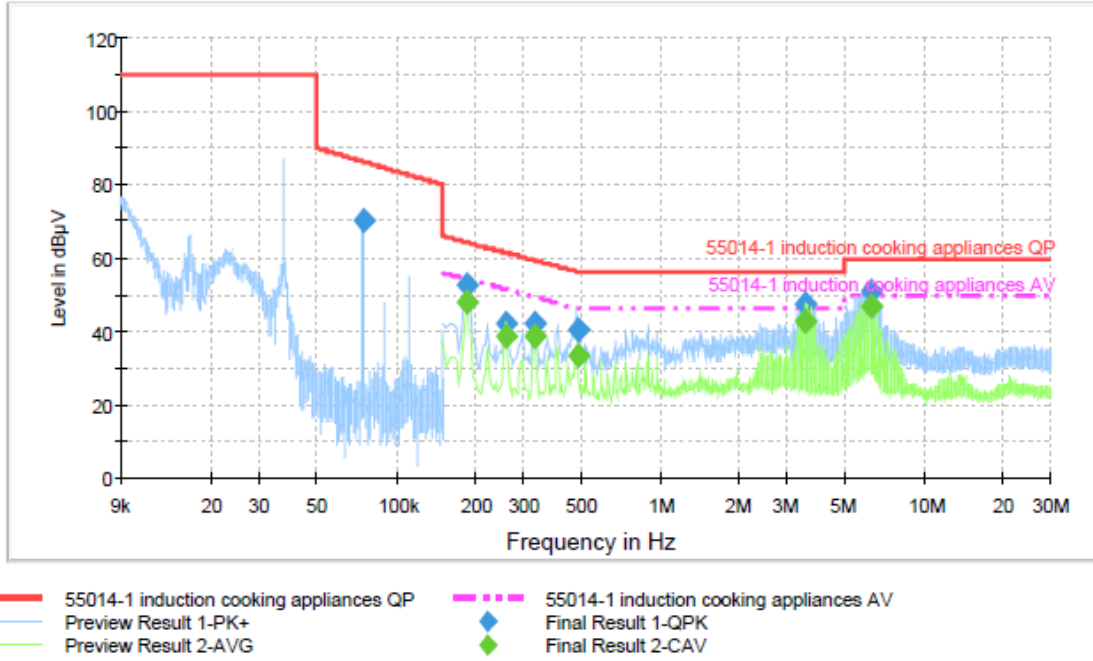
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.074904	71.4	1000.0	0.200	GND	L2	20.1	14.9	86.3	
0.186000	47.2	1000.0	9.000	GND	L1	20.7	17.0	64.2	
0.484812	37.8	1000.0	9.000	GND	L2	20.6	18.5	56.3	
3.689150	49.1	1000.0	9.000	GND	L2	20.7	6.9	56.0	
3.834400	48.7	1000.0	9.000	GND	L1	20.8	7.3	56.0	
5.997988	45.0	1000.0	9.000	GND	L2	20.7	15.0	60.0	
6.586631	45.5	1000.0	9.000	GND	L2	20.7	14.5	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.186000	42.5	1000.0	9.000	GND	L1	20.7	11.7	54.2	
0.484812	28.1	1000.0	9.000	GND	L2	20.6	18.2	46.3	
3.689150	42.4	1000.0	9.000	GND	L2	20.7	3.6	46.0	
3.834400	42.8	1000.0	9.000	GND	L1	20.8	3.2	46.0	
5.997988	37.1	1000.0	9.000	GND	L2	20.7	12.9	50.0	
6.586631	37.5	1000.0	9.000	GND	L2	20.7	12.5	50.0	



Cooking element #2



Final Result 1

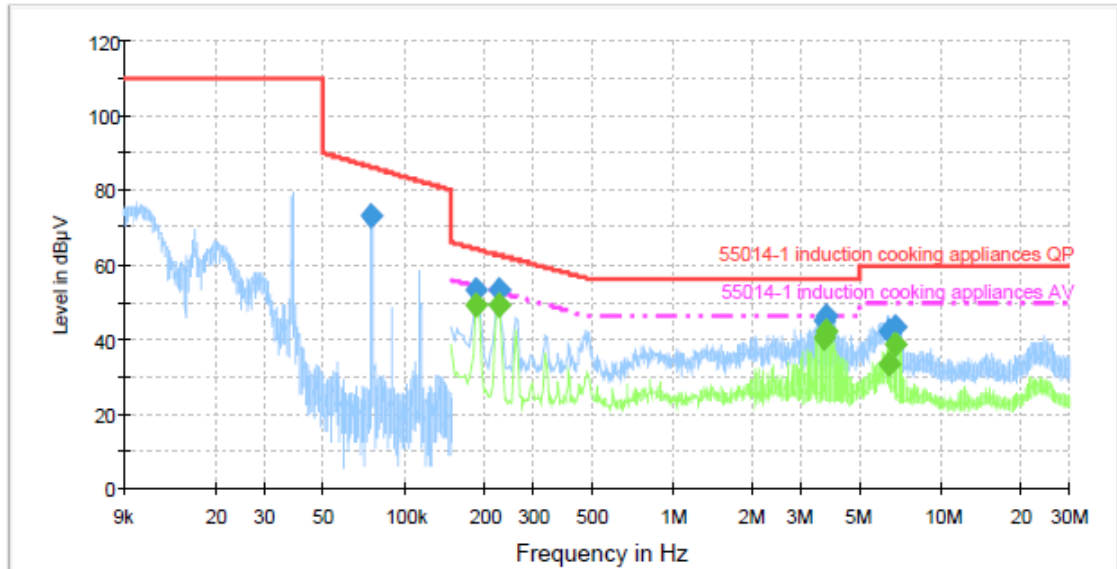
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.075318	70.5	1000.0	0.200	GND	L2	20.1	15.8	86.3	
0.186000	52.6	1000.0	9.000	GND	L2	20.6	11.6	64.2	
0.260985	42.1	1000.0	9.000	GND	L2	20.6	19.3	61.4	
0.332041	42.1	1000.0	9.000	GND	L2	20.6	17.3	59.4	
0.485081	40.4	1000.0	9.000	GND	L1	20.7	15.9	56.3	
3.540975	47.5	1000.0	9.000	GND	L1	20.7	8.5	56.0	
6.219475	51.0	1000.0	9.000	GND	L2	20.7	9.0	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.186000	47.9	1000.0	9.000	GND	L2	20.6	6.3	54.2	
0.260985	38.8	1000.0	9.000	GND	L2	20.6	12.6	51.4	
0.332041	38.7	1000.0	9.000	GND	L2	20.6	10.7	49.4	
0.485081	33.4	1000.0	9.000	GND	L1	20.7	12.9	46.3	
3.540975	42.9	1000.0	9.000	GND	L1	20.7	3.1	46.0	
6.219475	46.7	1000.0	9.000	GND	L2	20.7	3.3	50.0	



Cooking element #3



- 55014-1 induction cooking appliances QP
- Preview Result 1-PK+
- Preview Result 2-AVG
- - - 55014-1 induction cooking appliances AV
- ◆ Final Result 1-QPK
- ◆ Final Result 2-CAV

Final Result 1

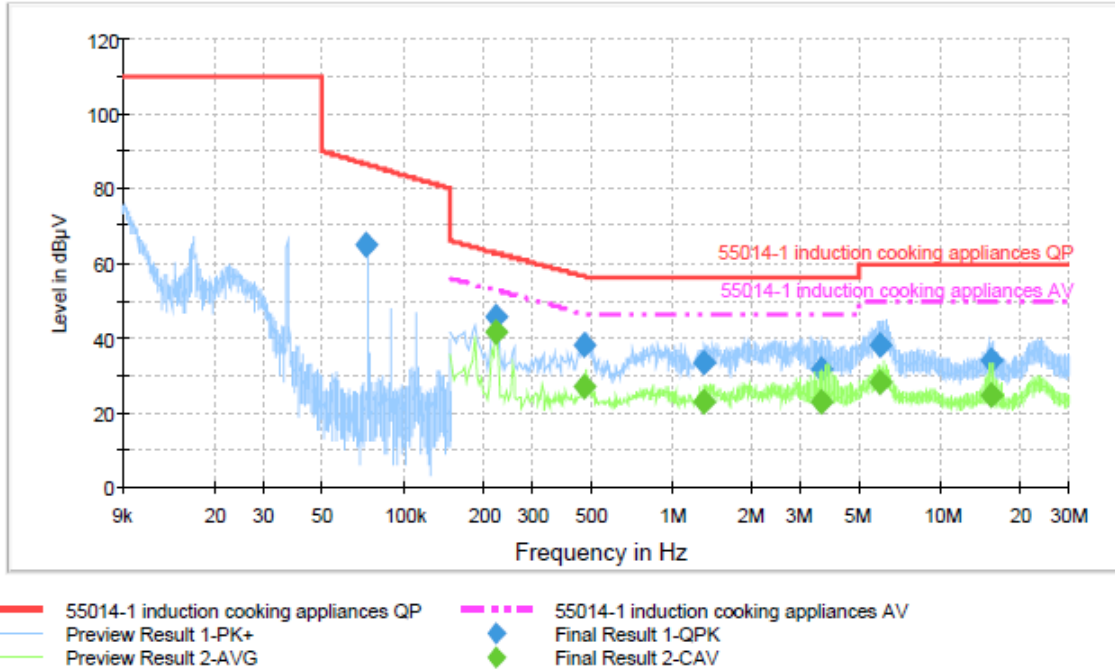
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.074745	73.2	1000.0	0.200	GND	L1	20.2	13.1	86.3	
0.186000	53.5	1000.0	9.000	GND	L2	20.6	10.7	64.2	
0.223625	53.1	1000.0	9.000	GND	L2	20.6	9.6	62.7	
3.650138	44.8	1000.0	9.000	GND	L2	20.6	11.2	56.0	
3.725388	46.3	1000.0	9.000	GND	L1	20.8	9.7	56.0	
6.374606	42.2	1000.0	9.000	GND	L2	20.7	17.8	60.0	
6.744506	43.3	1000.0	9.000	GND	L2	20.7	16.7	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.186000	49.1	1000.0	9.000	GND	L2	20.6	5.1	54.2	
0.223625	48.9	1000.0	9.000	GND	L2	20.6	3.7	52.7	
3.650138	40.5	1000.0	9.000	GND	L2	20.6	5.5	46.0	
3.725388	41.9	1000.0	9.000	GND	L1	20.8	4.1	46.0	
6.374606	33.5	1000.0	9.000	GND	L2	20.7	16.5	50.0	
6.744506	38.8	1000.0	9.000	GND	L2	20.7	11.2	50.0	



Cooking element #4



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.073124	65.1	1000.0	0.200	GND	L2	20.1	21.4	86.5	
0.219894	45.7	1000.0	9.000	GND	L1	20.7	17.2	62.8	
0.473350	37.9	1000.0	9.000	GND	L2	20.6	18.6	56.5	
1.317656	33.5	1000.0	9.000	GND	L2	20.6	22.5	56.0	
3.612138	31.4	1000.0	9.000	GND	L2	20.7	24.6	56.0	
5.896975	38.1	1000.0	9.000	GND	L1	20.8	21.9	60.0	
15.341606	33.9	1000.0	9.000	GND	L2	20.8	26.1	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.219894	41.4	1000.0	9.000	GND	L1	20.7	11.5	52.8	
0.473350	27.2	1000.0	9.000	GND	L2	20.6	19.2	46.5	
1.317656	23.1	1000.0	9.000	GND	L2	20.6	22.9	46.0	
3.612138	22.8	1000.0	9.000	GND	L2	20.7	23.2	46.0	
5.896975	28.3	1000.0	9.000	GND	L1	20.8	21.7	50.0	
15.341606	24.6	1000.0	9.000	GND	L2	20.8	25.4	50.0	



7. Radiated Emission

7.1 Operating Environment

Temperature : 20.6 °C
Relative Humidity : 46.9 %
Air Pressure : 100.9 kPa

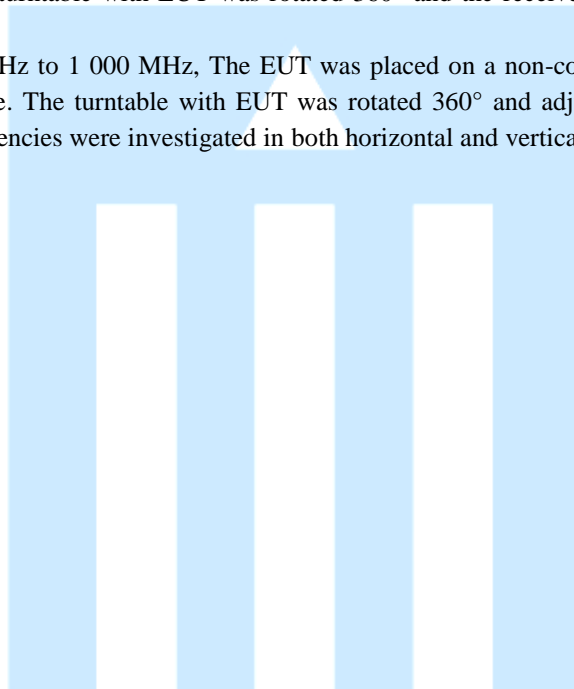
7.2 Test Set-up

The Radiated emission measurements were conducted at the worst test conditions.

The measurements of below 1 GHz were made at 3 m Semi Anechoic Chamber or 10 m Semi Anechoic Chamber (FCC Test Firm Registration No.: 269701) that complies with CISPR 16 / ANSI C63.4.

The frequency range of 9 kHz to 30 MHz, The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane. The turntable with EUT was rotated 360° and the receive antenna was fixed 2.0 m on the ground plane.

The frequency range of 30 MHz to 1 000 MHz, The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane. The turntable with EUT was rotated 360° and adjusting the receive antenna height from 1.0 m to 4.0 m. All frequencies were investigated in both horizontal and vertical antenna polarity.



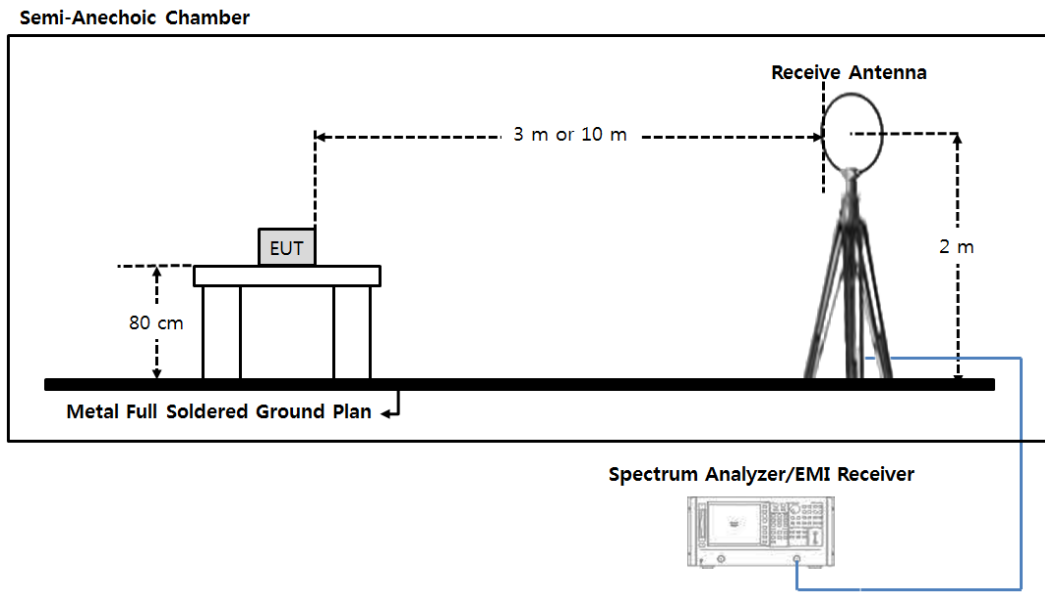


Fig 3. Configurations of Radiated emission test (9 kHz to 30 MHz)

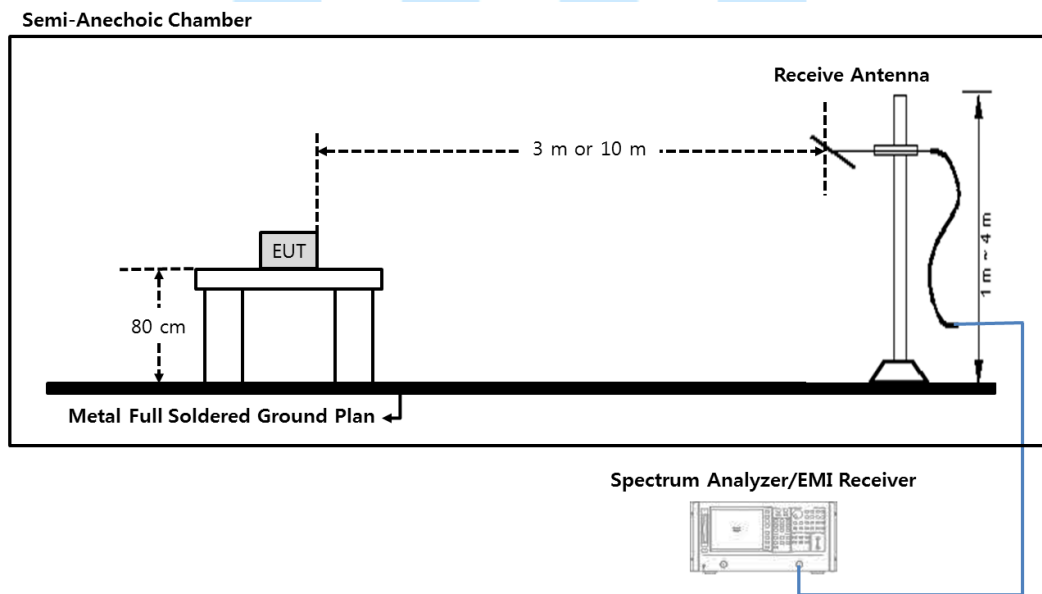


Fig 4. Configurations of Radiated emission test (30 MHz to 1 000 MHz)



7.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO “Guide to the expression of uncertainty in measurement”.

The measurement uncertainty was given with a confidence of 95 %.

Test Items(10 m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 10 m, Vertical)	4.77 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 10 m, Horizontal)	4.79 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Vertical)	4.91 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Horizontal)	4.90 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (1 000 MHz ~ 6 000 MHz, 3 m)	4.64 dB	Confidence level of approximately 95 % ($k = 2$)
Test items (3 m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	4.90 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	4.79 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	6.23 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	5.16 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (1 GHz ~ 6 GHz, 3 m)	4.56 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (6 GHz ~ 18 GHz, 3 m)	4.89 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (18 GHz ~ 26 GHz, 3 m)	5.16 dB	Confidence level of approximately 95 % ($k = 2$)

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

The listed uncertainties are the worst case uncertainty for the entire range of measurement. please note that the uncertainty values are provided for informational purposes only are not used in determining the PASS/FAIL results



7.4 Limit

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	25	300
		500 or more	$25 \times \text{SQRT}(\text{power}/500)$	¹ 300
	Any non-ISM frequency	Below 500	15	300
		500 or more	$15 \times \text{SQRT}(\text{power}/500)$	¹ 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz	Any	10	1,600
	Above 5,725 MHz	Any	⁽²⁾	⁽²⁾
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500	$2,400/\text{F}(\text{kHz})$	300
		500 or more	$2,400/\text{F}(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	³ 300
	490 to 1,600 kHz	Any	$24,000/\text{F}(\text{kHz})$	30
	Above 1,600 kHz	Any	15	30
Induction cooking ranges	Below 90 kHz	Any	1,500	⁴ 30
	On or above 90 kHz	Any	300	⁴ 30

Note.

- 1) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
- 2) Reduced to the greatest extent possible.
- 3) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
- 4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

7.5 Test Equipment used

Model Name	Manufacturer	Description	Serial Number	Calibration Date
■ - ESR7	Rohde & Schwarz	EMI Test Receiver	101382	Apr. 03, 2024
■ - HFH2-Z2	Rohde & Schwarz	Loop ANT	100041	Apr. 15, 2024
■ - CO3000	Innco system GmbH	Position Controller	CO3000/779/330 50314/L	N/A
■ - DT3000	Innco system GmbH	Turntable	1280314	N/A
□ - MA4000-EP	Innco system GmbH	Antenna Mast	4420314	N/A
□ - MA4640-XP-ET	Innco system GmbH	Antenna Mast	MA4640/558	N/A
■ - EMC 32	Rohde & Schwarz	Software	Ver.10.60.20	N/A

All test equipment used is calibrated on a regular basis.



7.6 Test data for Radiated Emission

- Test Date : Oct. 15, 2024 ~ Oct. 16, 2024
- Measurement Distance : 10 m
- Note : frequency range to be scanned up to 30 MHz, because the frequency band in which the EUT operates less than 1.705 MHz

- Measurement setting

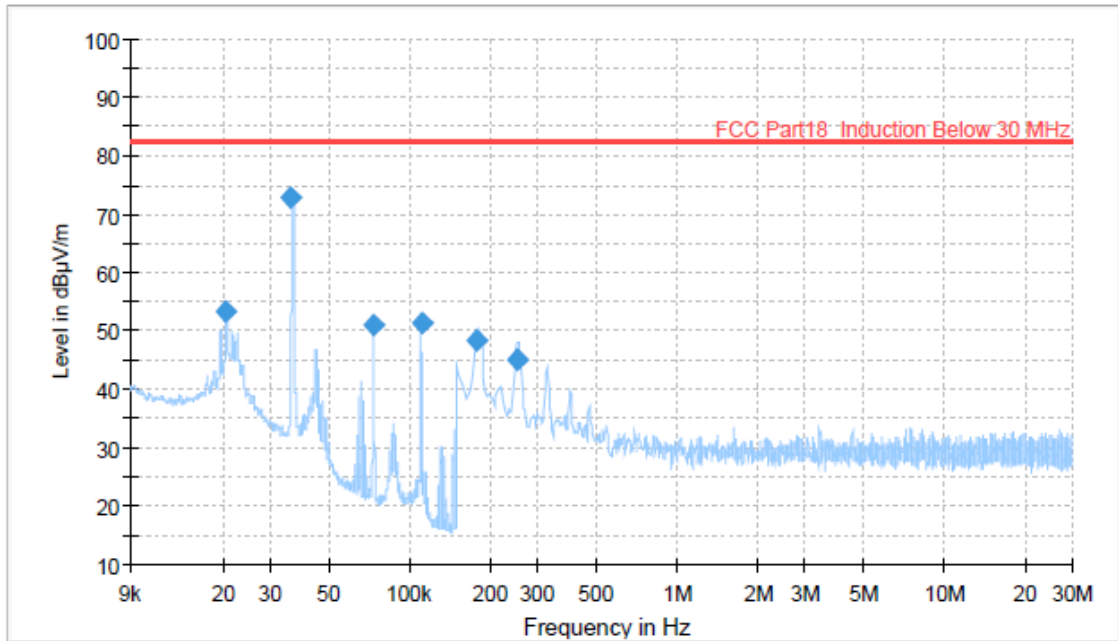
Frequency range	9 kHz ~ 150 kHz	0.15 MHz ~ 30 MHz
Detector mode	Average	Average
Resolution bandwidth	200 Hz	9 kHz





-. Measurement Data: Induction mode with WLAN
 [AC 208V, 60 Hz]

Cooking Element #1_H



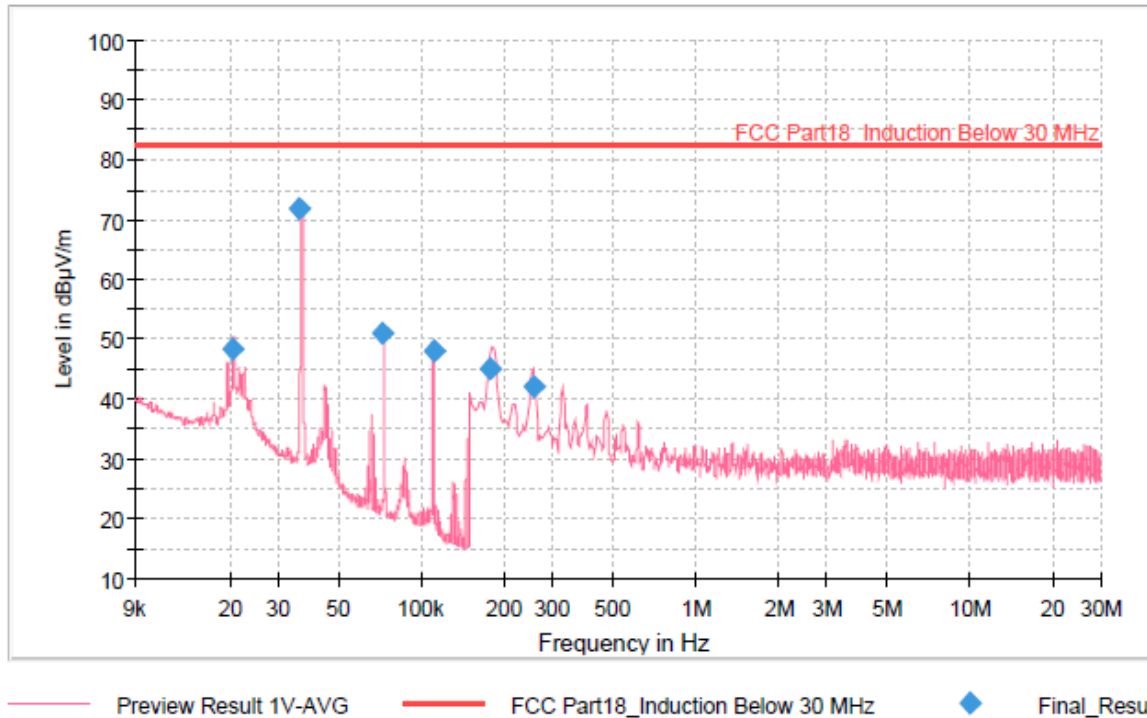
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020470	53.27	82.60	29.33	1000.0	0.200	H	285.0	20.3
0.035994	72.81	82.60	9.79	1000.0	0.200	H	91.0	20.1
0.073143	50.92	82.60	31.68	1000.0	0.200	H	119.0	20.0
0.110344	51.48	82.60	31.12	1000.0	0.200	H	86.0	20.0
0.178000	48.34	82.60	34.26	1000.0	9.000	H	96.0	20.0
0.253475	44.99	82.60	37.61	1000.0	9.000	H	96.0	20.0



Cooking Element #1_V

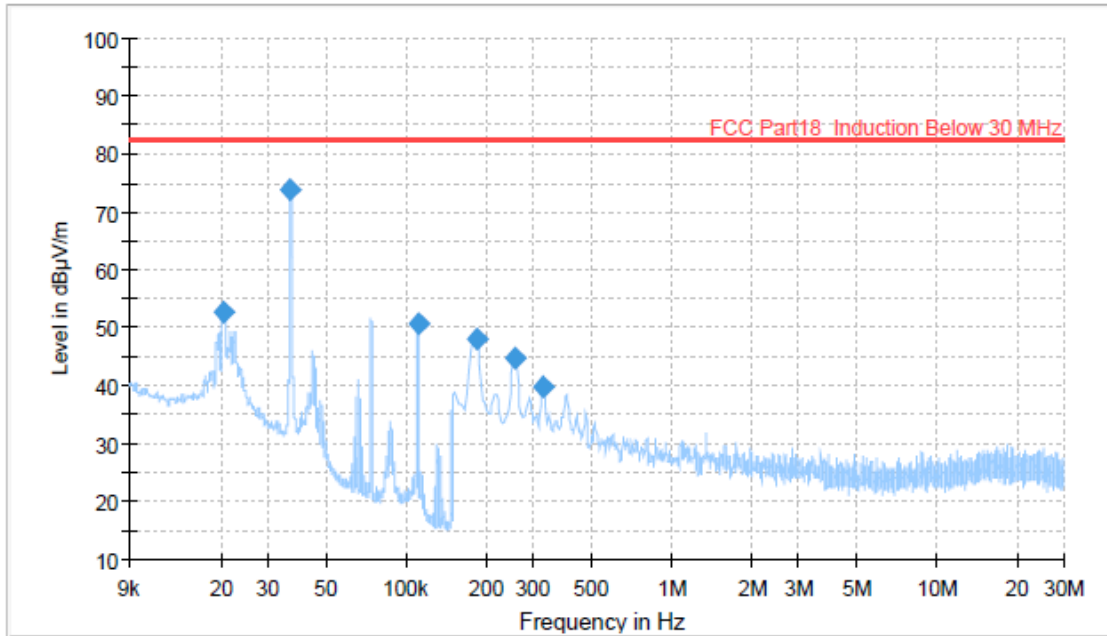


Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020456	48.49	82.60	34.11	1000.0	0.200	V	299.0	20.3
0.035980	71.83	82.60	10.77	1000.0	0.200	V	144.0	20.1
0.072197	50.93	82.60	31.67	1000.0	0.200	V	44.0	20.0
0.110406	48.12	82.60	34.48	1000.0	0.200	V	0.0	20.0
0.178000	45.11	82.60	37.49	1000.0	9.000	V	148.0	20.0
0.254475	42.18	82.60	40.42	1000.0	9.000	V	161.0	20.0



Cooking Element #2_H



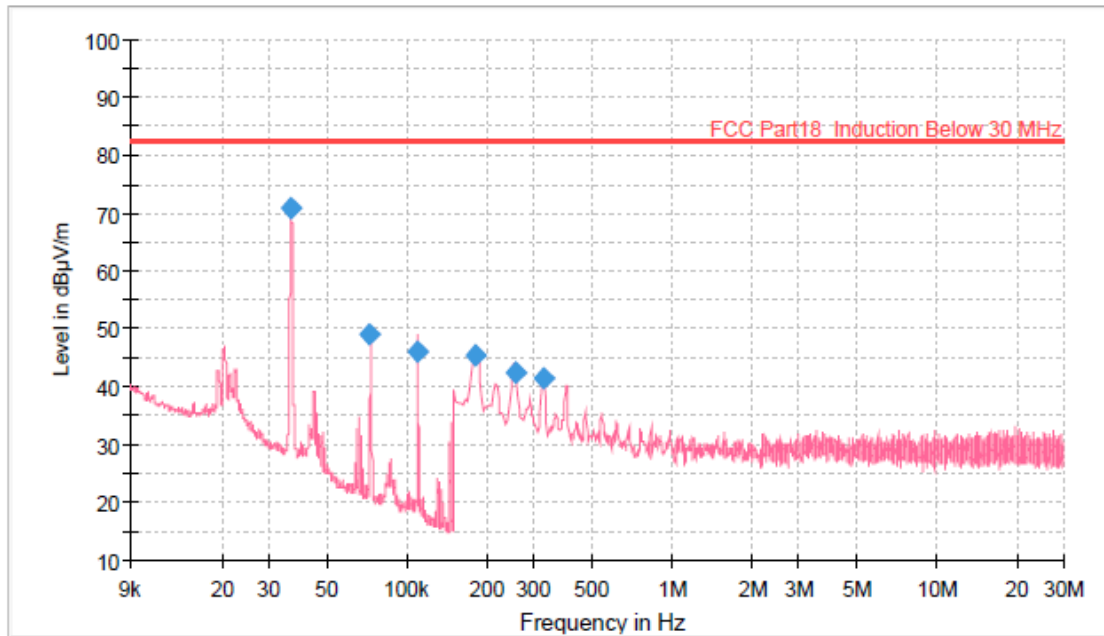
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020418	52.71	82.60	29.89	1000.0	0.200	H	50.0	20.3
0.036083	73.72	82.60	8.88	1000.0	0.200	H	78.0	20.1
0.110386	50.56	82.60	32.04	1000.0	0.200	H	31.0	20.0
0.182835	48.15	82.60	34.45	1000.0	9.000	H	16.0	20.0
0.254475	44.84	82.60	37.76	1000.0	9.000	H	66.0	20.0
0.325115	39.76	82.60	42.84	1000.0	9.000	H	0.0	20.0



Cooking Element #2_V



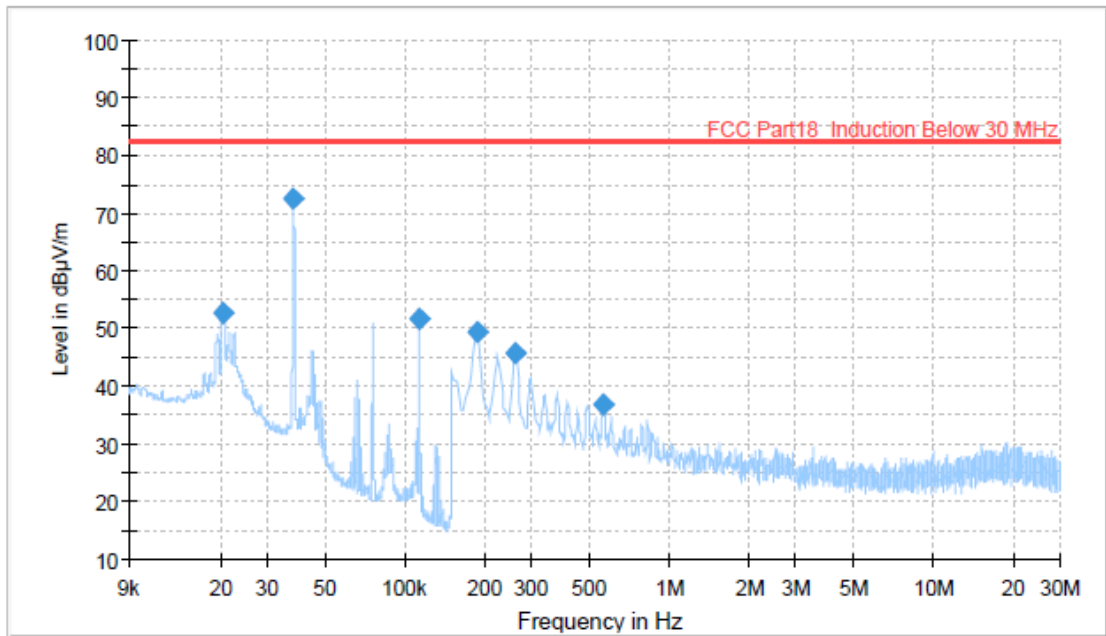
— Preview Result 1V-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036177	70.99	82.60	11.61	1000.0	0.200	V	154.0	20.1
0.072164	48.89	82.60	33.71	1000.0	0.200	V	54.0	20.0
0.108646	46.15	82.60	36.45	1000.0	0.200	V	66.0	20.0
0.182000	45.49	82.60	37.11	1000.0	9.000	V	116.0	20.0
0.254490	42.37	82.60	40.23	1000.0	9.000	V	116.0	20.0
0.325115	41.34	82.60	41.26	1000.0	9.000	V	97.0	20.0



Cooking Element #3_H



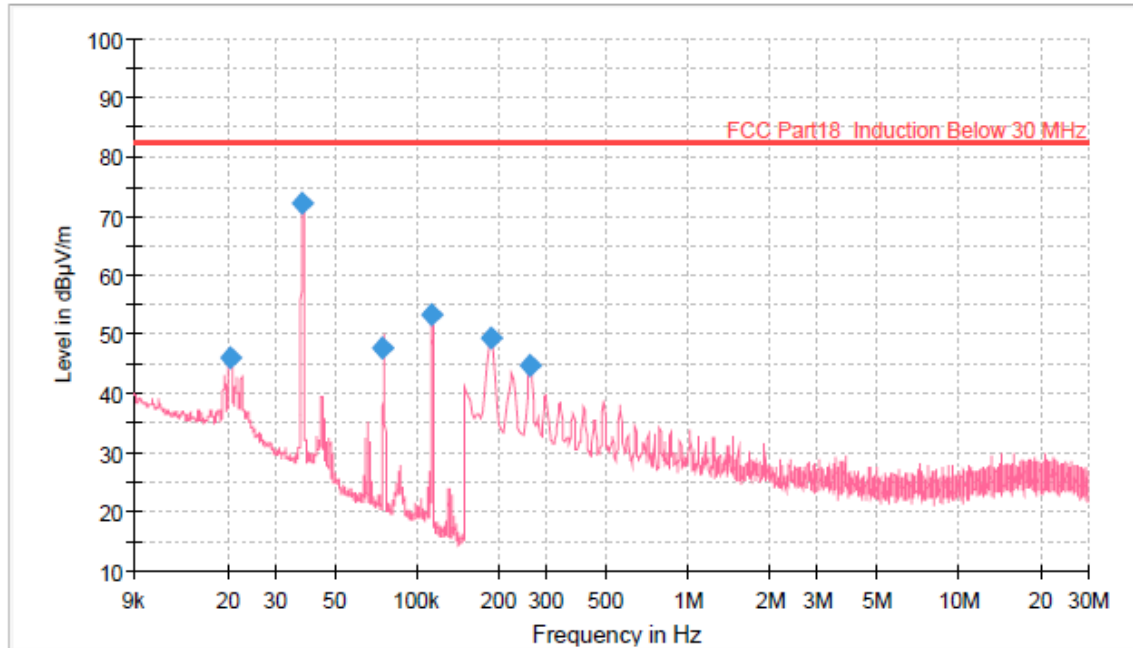
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020306	52.77	82.60	29.83	1000.0	0.200	H	292.0	20.3
0.037778	72.38	82.60	10.22	1000.0	0.200	H	94.0	20.1
0.113648	51.84	82.60	30.76	1000.0	0.200	H	94.0	20.0
0.185820	49.47	82.60	33.13	1000.0	9.000	H	249.0	20.0
0.260445	45.78	82.60	36.82	1000.0	9.000	H	253.0	20.0
0.564915	36.64	82.60	45.96	1000.0	9.000	H	253.0	20.0



Cooking Element #3_V



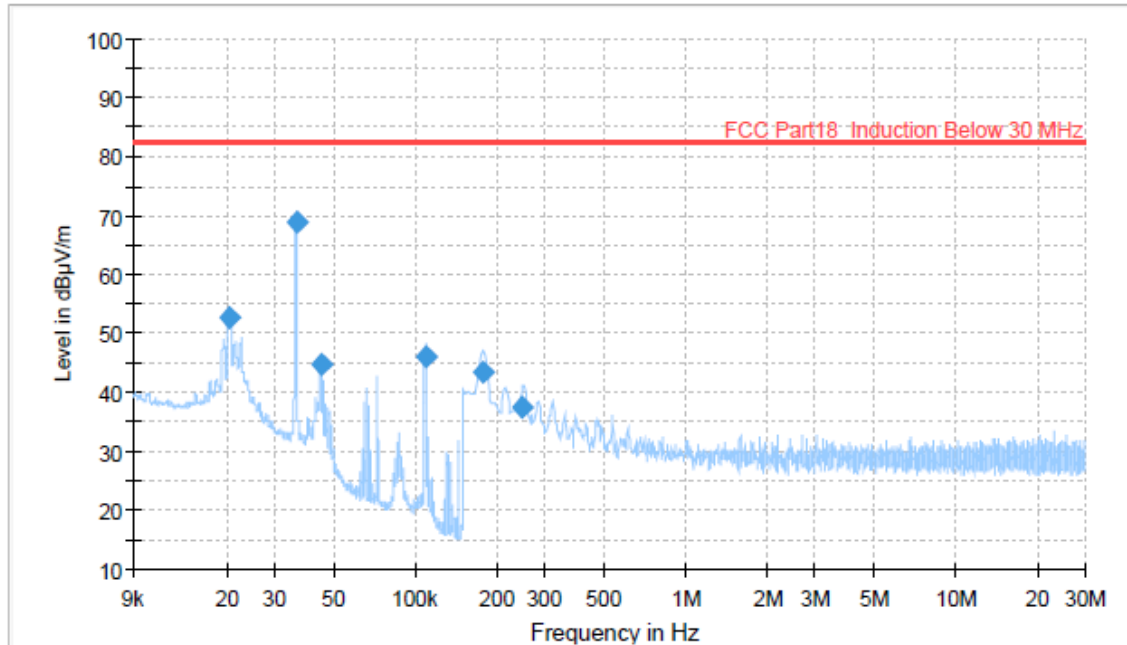
— Preview Result 1V-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020343	46.11	82.60	36.49	1000.0	0.200	V	9.0	20.3
0.037602	72.23	82.60	10.37	1000.0	0.200	V	179.0	20.1
0.074646	47.77	82.60	34.83	1000.0	0.200	V	62.0	20.0
0.113597	53.21	82.60	29.39	1000.0	0.200	V	179.0	20.0
0.185820	49.23	82.60	33.37	1000.0	9.000	V	168.0	20.0
0.260445	44.76	82.60	37.84	1000.0	9.000	V	168.0	20.0



Cooking Element #4_H



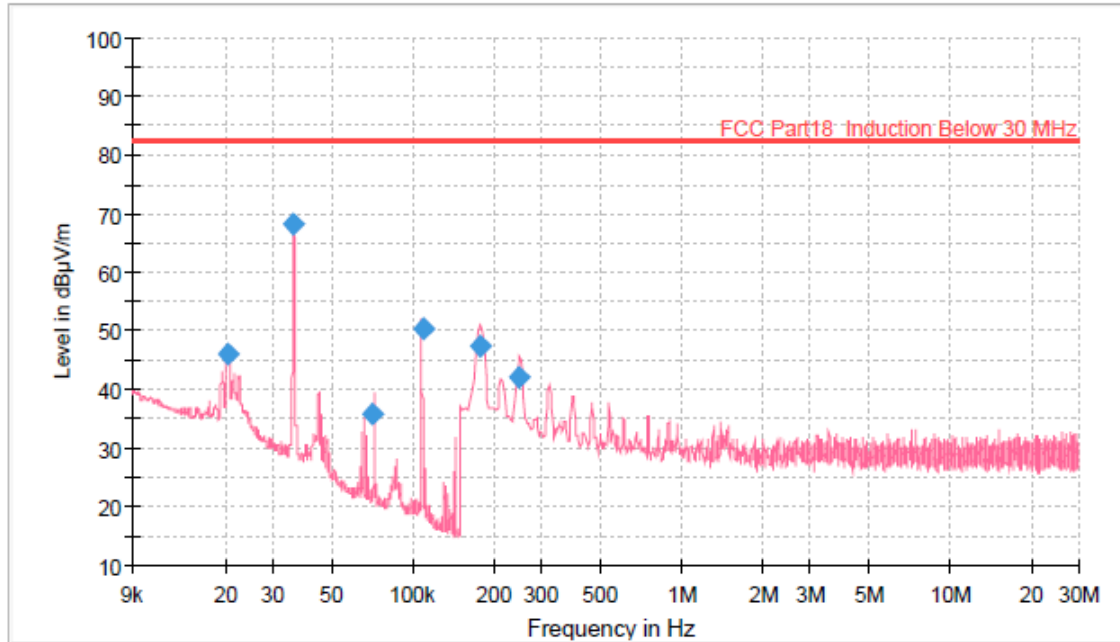
— Preview Result 1H-AVG — FCC Part18 Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020310	52.73	82.60	29.87	1000.0	0.200	H	0.0	20.3
0.036298	68.74	82.60	13.86	1000.0	0.200	H	142.0	20.1
0.044591	44.74	82.60	37.86	1000.0	0.200	H	86.0	20.1
0.108676	45.96	82.60	36.64	1000.0	0.200	H	160.0	20.0
0.178000	43.35	82.60	39.25	1000.0	9.000	H	0.0	20.0
0.248505	37.36	82.60	45.24	1000.0	9.000	H	116.0	20.0



Cooking Element #4_V



— Preview Result 1V-AVG — FCC Part18 Induction Below 30 MHz ◆ Final Result AVC

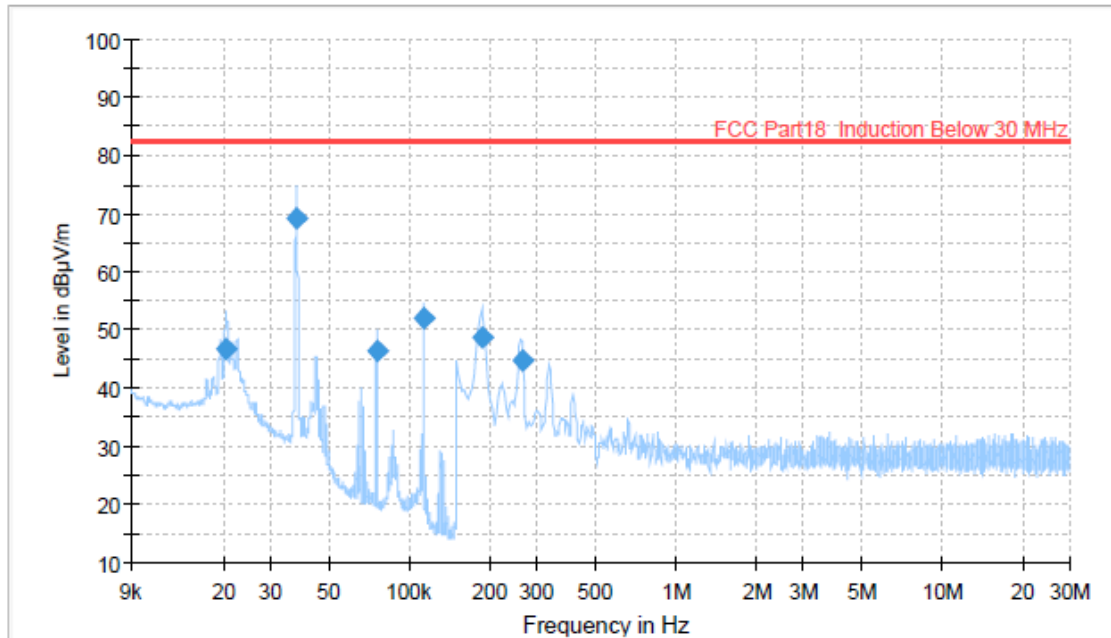
Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020357	45.90	82.60	36.70	1000.0	0.200	V	306.0	20.3
0.035557	68.13	82.60	14.47	1000.0	0.200	V	84.0	20.1
0.071027	35.73	82.60	46.87	1000.0	0.200	V	203.0	20.0
0.108408	50.26	82.60	32.34	1000.0	0.200	V	232.0	20.0
0.176865	47.37	82.60	35.23	1000.0	9.000	V	238.0	20.0
0.248505	42.25	82.60	40.35	1000.0	9.000	V	226.0	20.0



[AC 240V, 60 Hz]

Cooking Element #1_H



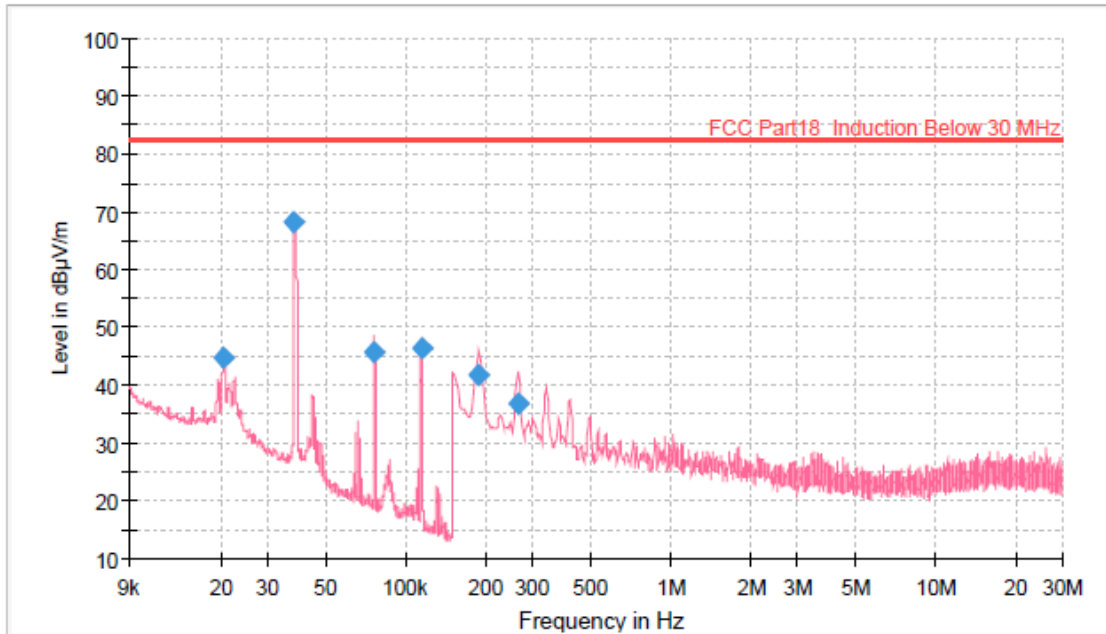
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020372	46.73	82.60	35.87	1000.0	0.200	H	356.0	20.3
0.037489	69.32	82.60	13.28	1000.0	0.200	H	59.0	20.1
0.075828	46.47	82.60	36.13	1000.0	0.200	H	121.0	20.0
0.112552	51.90	82.60	30.70	1000.0	0.200	H	59.0	20.0
0.185820	48.85	82.60	33.75	1000.0	9.000	H	82.0	20.0
0.263445	44.69	82.60	37.91	1000.0	9.000	H	49.0	20.0



Cooking Element #1_V



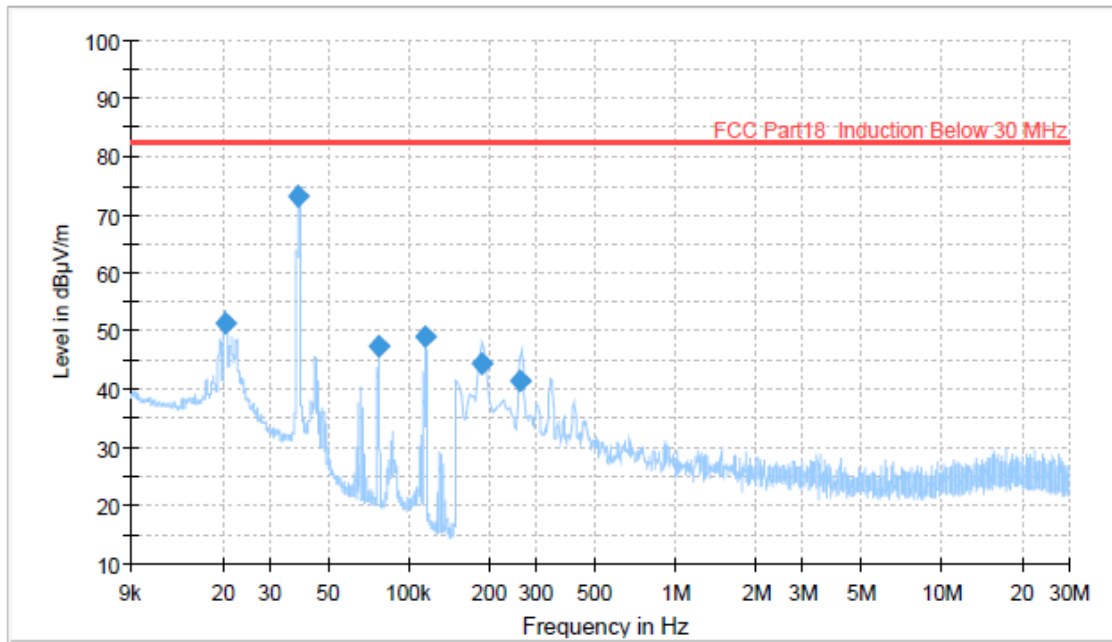
— Preview Result 1V-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020400	44.82	82.60	37.78	1000.0	0.200	V	5.0	20.3
0.037686	68.11	82.60	14.49	1000.0	0.200	V	47.0	20.1
0.075102	45.80	82.60	36.80	1000.0	0.200	V	38.0	20.0
0.114556	46.26	82.60	36.34	1000.0	0.200	V	47.0	20.0
0.186000	41.63	82.60	40.97	1000.0	9.000	V	38.0	20.0
0.264430	36.88	82.60	45.72	1000.0	9.000	V	42.0	20.0



Cooking Element #2_H



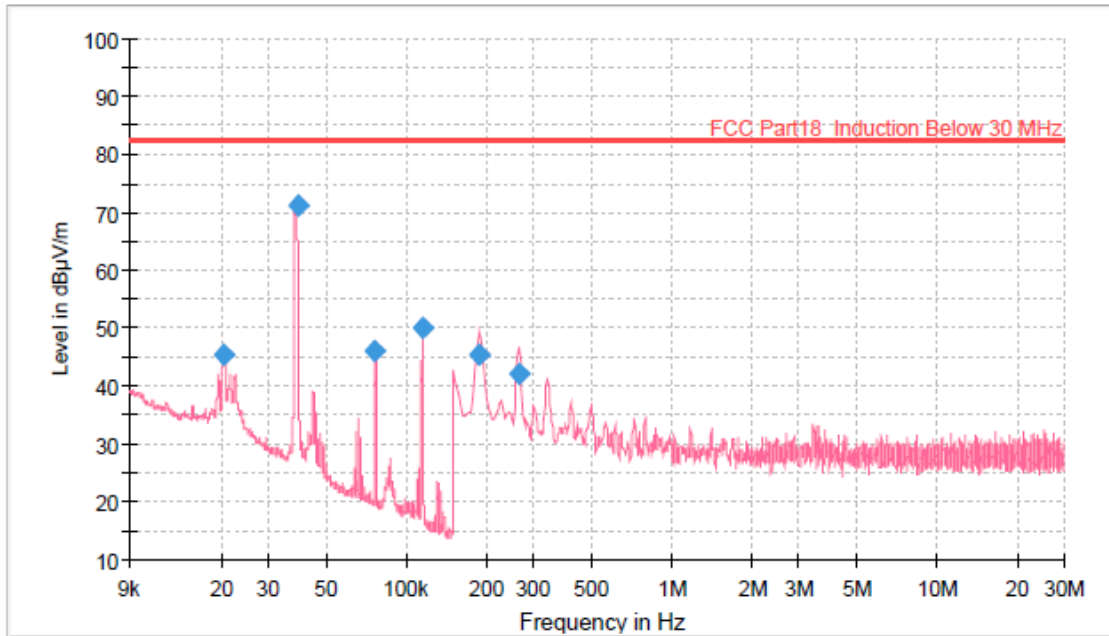
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020400	51.29	82.60	31.31	1000.0	0.200	H	331.0	20.3
0.038463	73.32	82.60	9.28	1000.0	0.200	H	81.0	20.1
0.076842	47.53	82.60	35.07	1000.0	0.200	H	114.0	20.0
0.114582	49.09	82.60	33.51	1000.0	0.200	H	65.0	20.0
0.188805	44.52	82.60	38.08	1000.0	9.000	H	81.0	20.0
0.262430	41.42	82.60	41.18	1000.0	9.000	H	70.0	20.0



Cooking Element #2_V



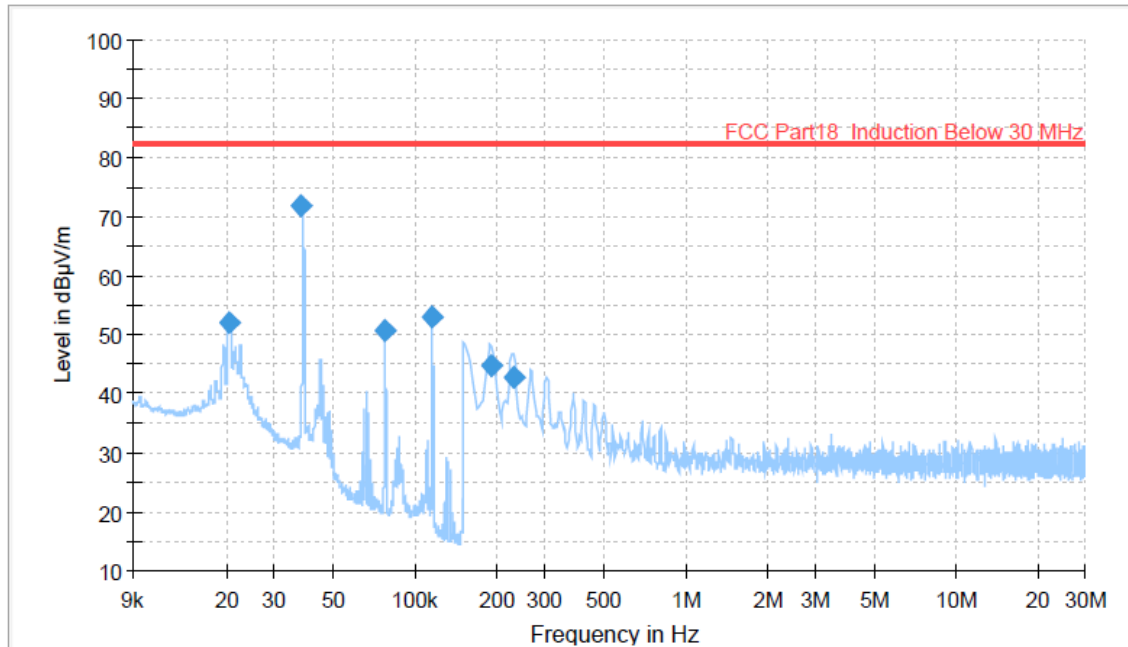
— Preview Result 1V-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020386	45.56	82.60	37.04	1000.0	0.200	V	37.0	20.3
0.038740	71.33	82.60	11.27	1000.0	0.200	V	150.0	20.1
0.076108	46.23	82.60	36.37	1000.0	0.200	V	42.0	20.0
0.115613	50.04	82.60	32.56	1000.0	0.200	V	124.0	20.0
0.188805	45.50	82.60	37.10	1000.0	9.000	V	124.0	20.0
0.263430	42.14	82.60	40.46	1000.0	9.000	V	124.0	20.0



Cooking Element #3_H



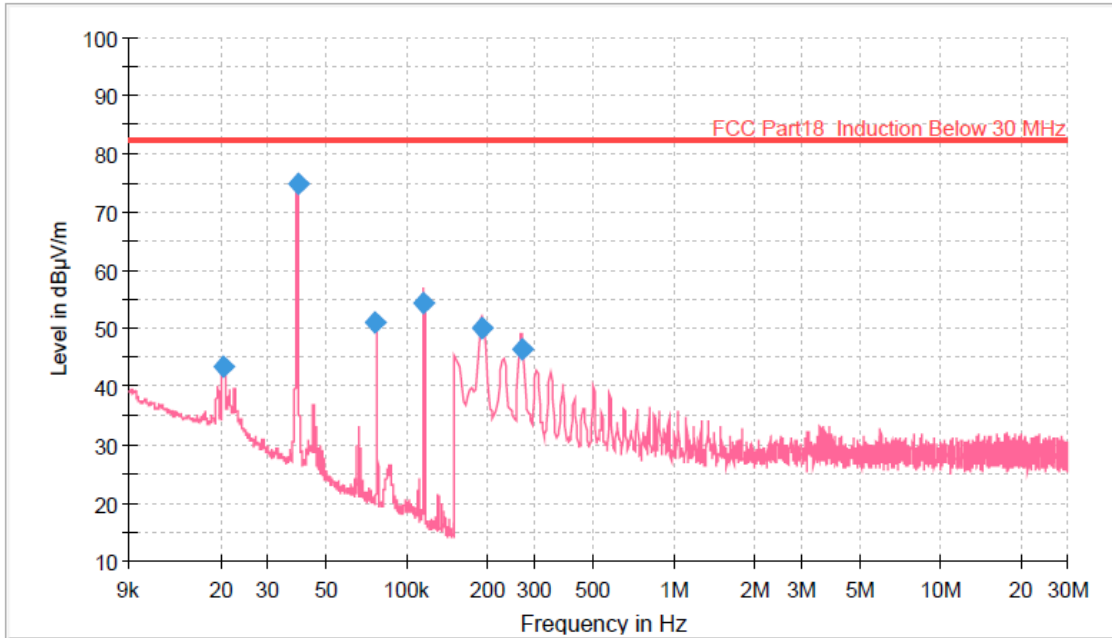
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	PoI	Azimuth (deg)	Corr. (dB/m)
0.020372	52.09	82.60	30.51	1000.0	0.200	H	38.0	20.3
0.037878	71.82	82.60	10.78	1000.0	0.200	H	98.0	20.1
0.076367	50.53	82.60	32.07	1000.0	0.200	H	133.0	20.0
0.114615	52.86	82.60	29.74	1000.0	0.200	H	98.0	20.0
0.190000	44.62	82.60	37.98	1000.0	9.000	H	78.0	20.0
0.230595	42.73	82.60	39.87	1000.0	9.000	H	296.0	20.0



Cooking Element #3_V



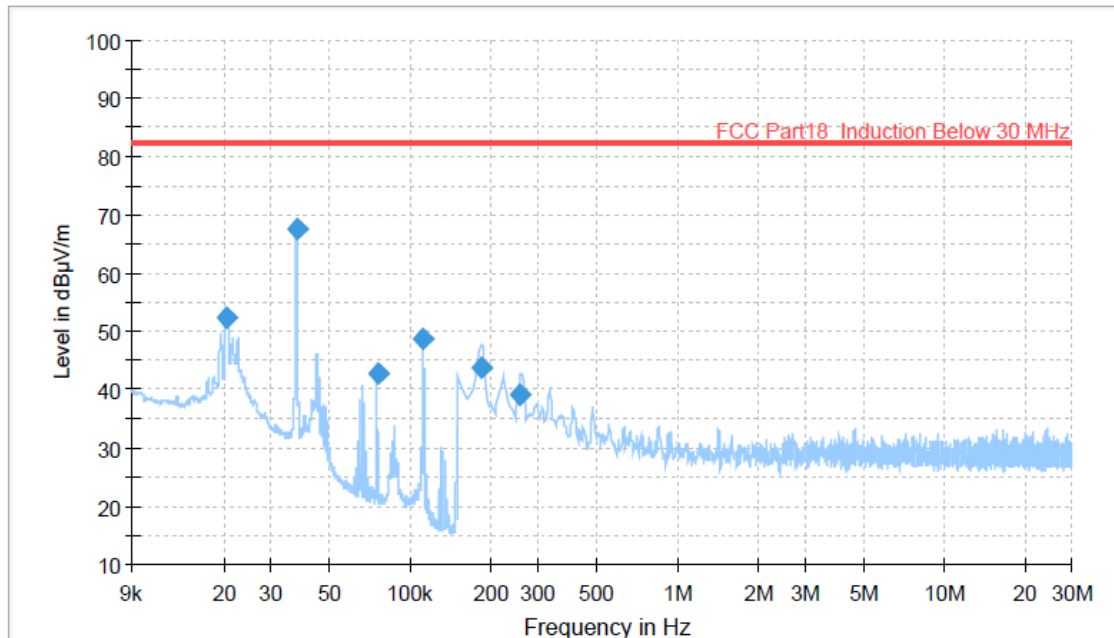
— Preview Result 1V-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020306	43.32	82.60	39.28	1000.0	0.200	V	220.0	20.3
0.038631	74.91	82.60	7.69	1000.0	0.200	V	180.0	20.1
0.076018	51.16	82.60	31.44	1000.0	0.200	V	55.0	20.0
0.114526	54.31	82.60	28.29	1000.0	0.200	V	159.0	20.0
0.190000	50.08	82.60	32.52	1000.0	9.000	V	151.0	20.0
0.269400	46.52	82.60	36.08	1000.0	9.000	V	170.0	20.0



Cooking Element #4_H



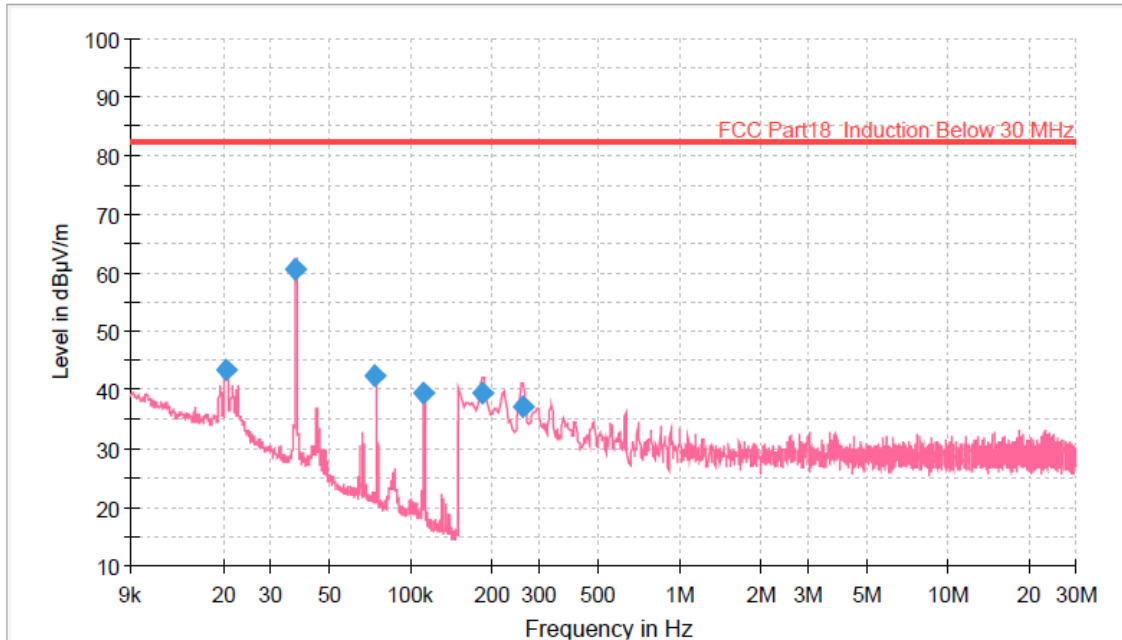
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020357	52.27	82.60	30.33	1000.0	0.200	H	134.0	20.3
0.037626	67.52	82.60	15.08	1000.0	0.200	H	155.0	20.1
0.074982	42.73	82.60	39.87	1000.0	0.200	H	308.0	20.0
0.110592	48.86	82.60	33.74	1000.0	0.200	H	122.0	20.0
0.182835	43.63	82.60	38.97	1000.0	9.000	H	279.0	20.0
0.255445	39.16	82.60	43.44	1000.0	9.000	H	134.0	20.0



Cooking Element #4_V



— Preview Result 1V-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020306	43.55	82.60	39.05	1000.0	0.200	V	336.0	20.3
0.036948	60.69	82.60	21.91	1000.0	0.200	V	64.0	20.1
0.073598	42.44	82.60	40.16	1000.0	0.200	V	194.0	20.0
0.110714	39.40	82.60	43.20	1000.0	0.200	V	194.0	20.0
0.182835	39.52	82.60	43.08	1000.0	9.000	V	199.0	20.0
0.260445	37.12	82.60	45.48	1000.0	9.000	V	296.0	20.0



Note.1 The worst case data were reported

And no other spurious and harmonic emissions were reported greater than listed emission above table

Note.2 “F”=Fundamental / “S”=Spurious / “*” = Noise Floor

Note.3 All measurements were recorded using a spectrum analyzer employing a Average detector for below 30 MHz

Note.4 Distance Correction Factor (D.C.F.)

For 30 m: $40\log(30/10) = 19.08$ dB

Note.5 Sample calculation

Field Strength = Reading – D.C.F

Margin = Limit – Field Strength

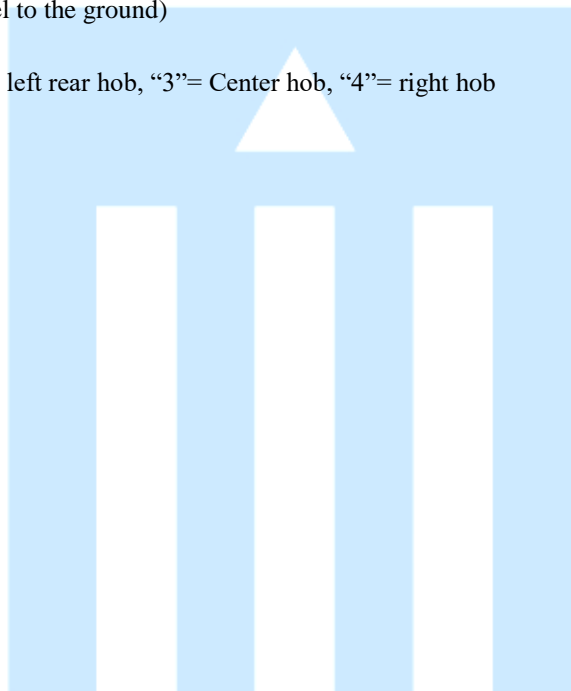
Where, D.C.F = Distance Correction Factor

Note.6 “V1”= Vertical and perpendicular to the centerline / “V2”=vertical and parallel to the centerline

“H” = horizontal (parallel to the ground)

Note.7 Cooking element

“1”= left front hob ,”2”= left rear hob, “3”= Center hob, “4”= right hob





8. Sample Calculations

$$\text{dB}\mu\text{V} = 20 \text{ Log}_{10}(\mu\text{V}/\text{m})$$

$$\text{dB}\mu\text{V} = \text{dBm} + 107$$

$$\mu\text{V} = 10^{(\text{dB}\mu\text{V}/20)}$$

8.1 Example 1 :

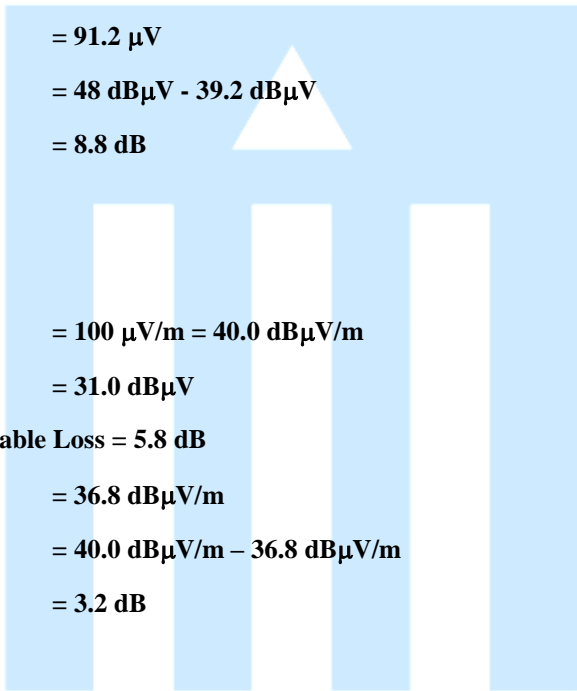
■ 20.3 MHz

Class B Limit = 250 μV = 48 $\text{dB}\mu\text{V}$

Reading = 39.2 $\text{dB}\mu\text{V}$

$10^{(39.2\text{dB}\mu\text{V}/20)}$ = 91.2 μV

Margin = 48 $\text{dB}\mu\text{V}$ - 39.2 $\text{dB}\mu\text{V}$
 = 8.8 dB



8.2 Example 2 :

■ 66.7 MHz

Class B Limit = 100 $\mu\text{V}/\text{m}$ = 40.0 $\text{dB}\mu\text{V}/\text{m}$

Reading = 31.0 $\text{dB}\mu\text{V}$

Antenna Factor + Cable Loss = 5.8 dB

Total = 36.8 $\text{dB}\mu\text{V}/\text{m}$

Margin = 40.0 $\text{dB}\mu\text{V}/\text{m}$ - 36.8 $\text{dB}\mu\text{V}/\text{m}$
 = 3.2 dB



9. Recommendation & Conclusion

The data collected shows that the **HOUSEHOLD COOKTOP (Model Name:CBIH3017BE)** was complies with § 18.305 and 18.307 of the FCC Rules.

- The end -

