

# ***EVALUATION REPORT***

## ***for Certification of Conformity***

### ***FCC Part 18***

**Applicant:** LG Electronics Inc.  
**222 LG-ro, Jinwi-myeon, Pyeongtaek-si,**  
**Gyeonggi-do 17709, South Korea**  
**Attn: Yongdeok Kwon/ Professional**

**Date of Issue:** Aug. 08, 2025  
**Order Number:** GETEC-C1-25-487  
**Test Report Number:** GETEC-E3-25-051  
**Test Site:** GUMI UNIVERSITY EMC CENTER  
**CAB Designation Number:** KR0033

**FCC ID. : 2BO3LD48213JB**

**Applicant: LG Electronics Inc.**

<b>Rule Part(s)</b>	<b>: FCC Part 18</b>
<b>Test Method</b>	<b>: FCC/OET MP-5</b>
<b>EUT Type</b>	<b>: HOUSEHOLD ELECTRIC RANGE</b>
<b>Equipment Class</b>	<b>: Part 18 Consumer Device(8CC)</b>
<b>Type of Authority</b>	<b>: Certification</b>
<b>Model Name</b>	<b>: LRIN6323YE</b>
<b>Trade Mark</b>	<b>: LG</b>

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,**



**Sang Hyug Park, Senior Engineer**  
**GUMI UNIVERSITY EMC CENTER**

**Reviewed by,**



**Soon Hoon Jeong, Technical Manager**  
**GUMI UNIVERSITY EMC CENTER**



### Revision list

Test Report No.	Issue Date	Description
GETEC-E3-25-051	Aug. 08, 2025	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 Inc.

**Applicant Address:** 222 LG-ro, Jinwi-myeon, Pyeongtaek-si,  
Gyeonggi-do 17709, South Korea

**Manufacturer:** LG Electronics Inc.

**Manufacturer Address#1:** 170, Sungsanpaechong-ro, Seongsan-gu, Changwon-si,  
Gyeongsangnam-do, 51533, Korea

**Manufacturer Address#2:** Av. Industrias No. 180, Fracc. Industrial Pimsa Ote., Apodaca,  
Nuevo Leon 66603, Mexico

**Manufacturer Address#3:** LG Electronics Vietnam Haiphong, CN2, Le Loi, An Duong,  
Hai Phong, Vietnam

**Contact Person:** Yongdeok Kwon / Professional

**Telephone Number:** 82-31-8066-5538



- **FCC ID.** 2BO3LD48213JB
- **EUT Type** HOUSEHOLD ELECTRIC RANGE
- **Model Name** LRIN6323YE
- **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** Aug. 01, 2025 ~ Aug. 06, 2025
- **Place of Test**  
**GUMI UNIVERSITY EMC CENTER**  
(FCC Test Firm Registration Number: 269701)  
37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 39213, Republic of Korea.
- **Test Report Number** GETEC-E3-25-051
- **Dates of Issue** Aug. 08, 2025



## 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 C63.4a-2017) was used in determining radiated and conducted emissions emanating from **HOUSEHOLD ELECTRIC RANGE (Model name: LRIN6323YE)**.

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 C63.4a(2017)

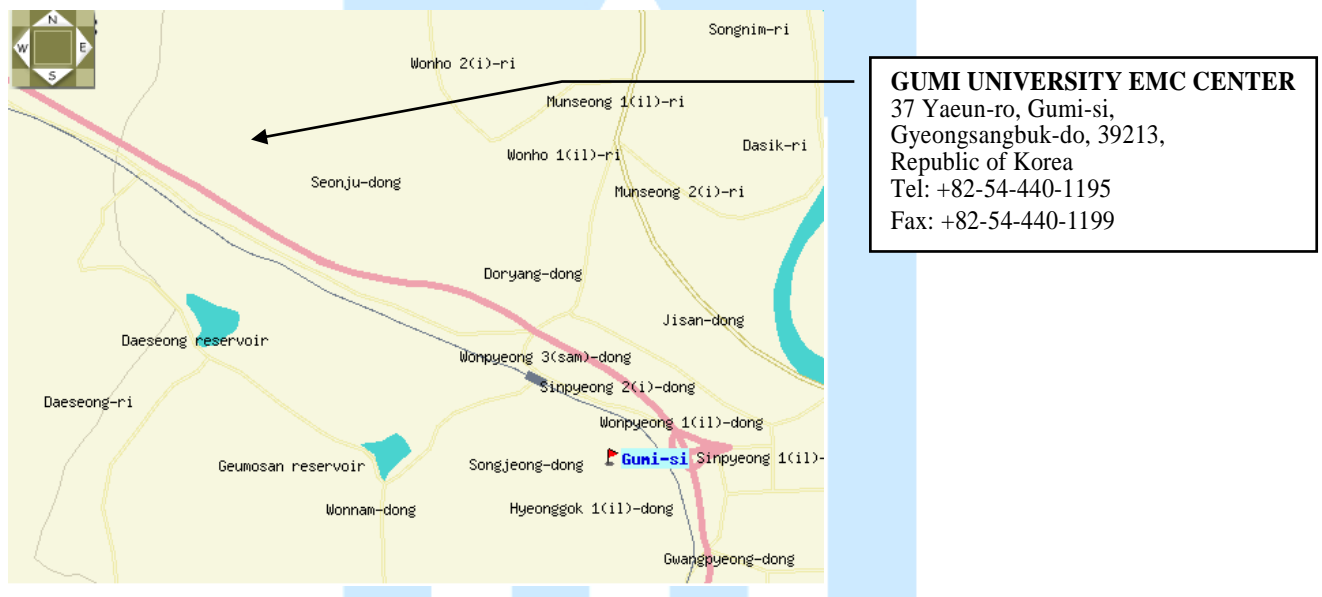


Fig 1. The map above shows the GUMI UNIVERSITY in vicinity area.



### 3. Product Information

#### 3.1 Description of EUT

The Equipment under Test (EUT) is the **HOUSEHOLD ELECTRIC RANGE (Model Name: LRIN6323YE)**  
**FCC ID.: 2BO3LD48213JB**

Oven Range Models	LRIN6323**
Description	Electric Oven Range
Electrical requirements	11.4 kW 120/240 VAC or 9.45 kW 120/208 VAC
Exterior Dimensions	29 7/8" (W) x 46 1/2" (H) x 26 3/4" (D) (D with door closed and excluding door handle) 76.2 cm (W) x 118.1 cm (H) x 68.0 cm (D) (D with door closed and excluding door handle)
Height to cooking surface	36" (91.3 cm)
Total capacity	6.3 cu. ft.

#### RF Module Specifications

Type	Operating Frequency Range	Output Power (Max.)
Wireless LAN	2 400 MHz - 2 472 MHz	< 1 W
Bluetooth <sup>†</sup>	2 400 MHz - 2 483.5 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 Right Front Hob	30 kHz	65 kHz
#4 Right Rear 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.
RF Module <sup>1)</sup>	LG Electronics Inc.	LCWB-008	S/N: -. FCC ID.: BEJ-LCWB008

1) Built-in RF module

#### 3.3.3 Used Cable(s)

Cable Name	Condition	Description
Power cable	Connected to the EUT and AC power	1.20 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 208 V / 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”= right front hob, “4”= right rear hob

Cooking vessels

“1” = 210 mm

“2”, “4” = 145 mm

“3” = 300 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 C63.4a (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 C63.4a (2017).

## 5. Summary of Test Results

FCC Part Section(s)	Test Description	Test Result
§18.305	Field strength	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.

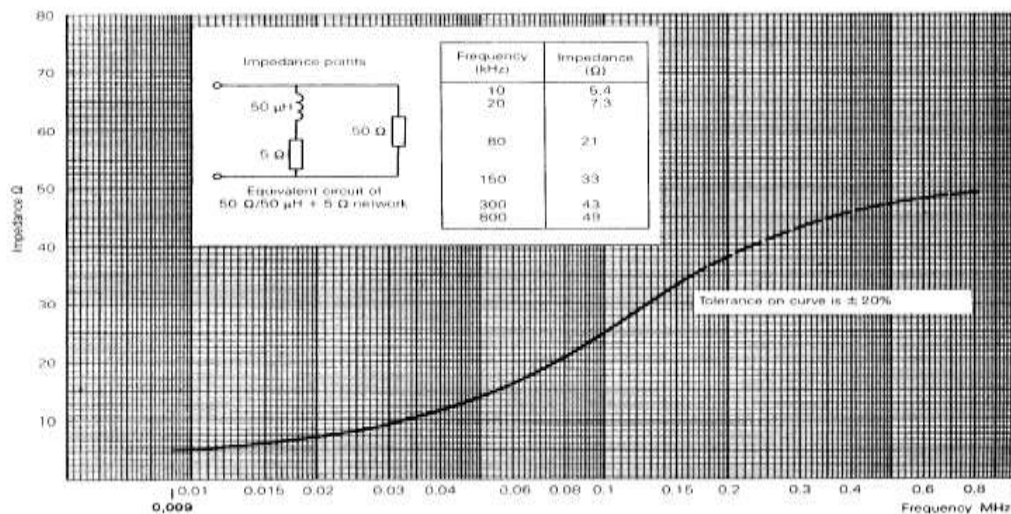


Fig 2. Impedance of LISN



## 6.1 Operating Environment

Temperature : 20.8 °C  
Relative Humidity : 57.6 %  
Air Pressure : 99.6 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 $\mu$ V)	
Freq. Range	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

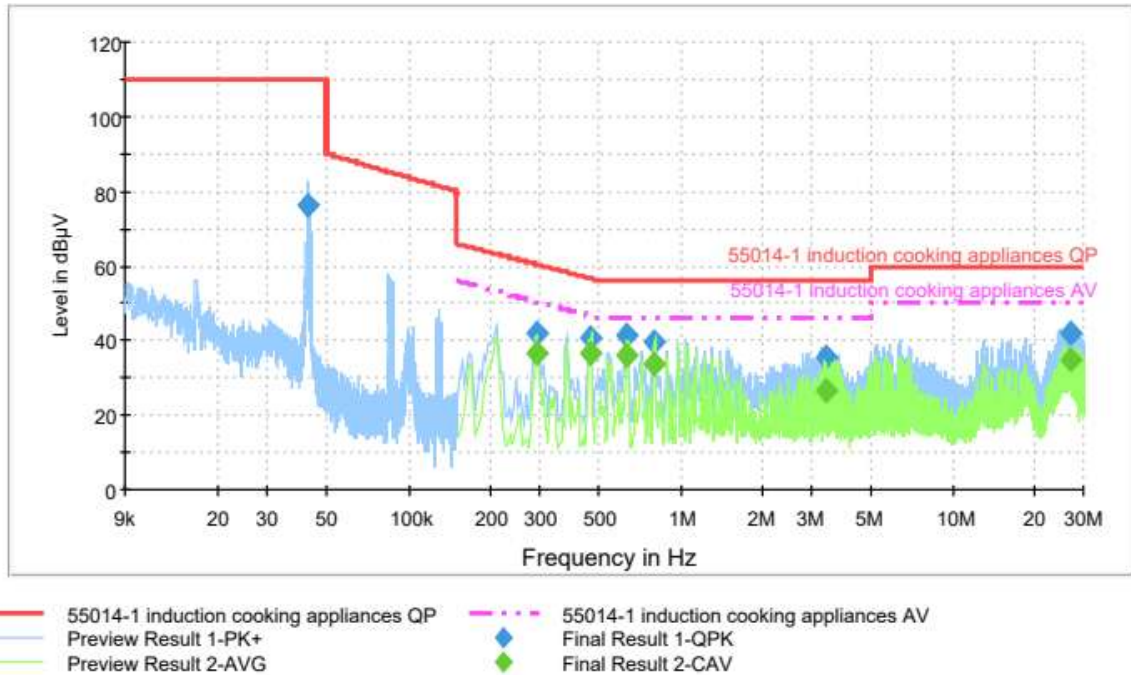
Model Name	Manufacturer	Description	Serial Number	Calibration Date
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100237	Apr. 03, 2025
□ - ENV216	Rohde & Schwarz	LISN	100173	Apr. 02, 2025
□ - ENV216	Rohde & Schwarz	LISN	100172	Apr. 02, 2025
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	Apr. 02, 2025
■ - VTSD 9561-F	SCHWARZBECK	Pulse Limiter	631	Apr. 02, 2025
■ - EMC 32	Rohde & Schwarz	Software	Ver.8.53	N/A

#### 6.6 Test data for Conducted Emission

- Test Date	: Aug. 01, 2025
- 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, N: Neutral, Ground
- Comment	: None



▪ Operating condition: Induction mode with WLAN  
**AC 208 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
0.042576	76.2	1000.0	0.200	GND	N	10.2	33.8	110.0	
0.294788	41.8	1000.0	9.000	GND	N	10.2	18.6	60.4	
0.462156	41.1	1000.0	9.000	GND	N	10.3	15.6	56.7	
0.630600	41.5	1000.0	9.000	GND	L1	10.2	14.5	56.0	
0.794238	39.6	1000.0	9.000	GND	N	10.3	16.4	56.0	
3.401338	35.2	1000.0	9.000	GND	L1	10.3	20.8	56.0	
27.079850	41.8	1000.0	9.000	GND	L2	10.8	18.2	60.0	

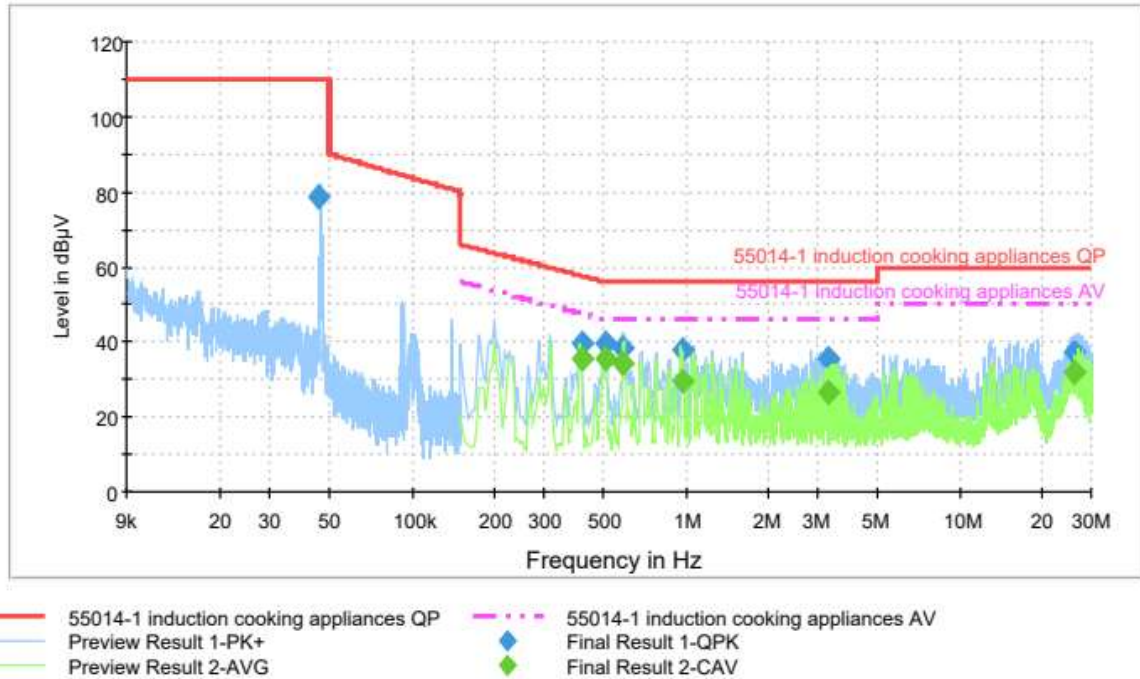
## Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.294788	36.9	1000.0	9.000	GND	N	10.2	13.5	50.4	
0.462156	36.7	1000.0	9.000	GND	N	10.3	10.0	46.7	
0.630600	36.1	1000.0	9.000	GND	L1	10.2	9.9	46.0	
0.794238	34.0	1000.0	9.000	GND	N	10.3	12.0	46.0	
3.401338	26.8	1000.0	9.000	GND	L1	10.3	19.2	46.0	
27.079850	35.0	1000.0	9.000	GND	L2	10.8	15.0	50.0	





## Cooking element #2



## Final Result 1

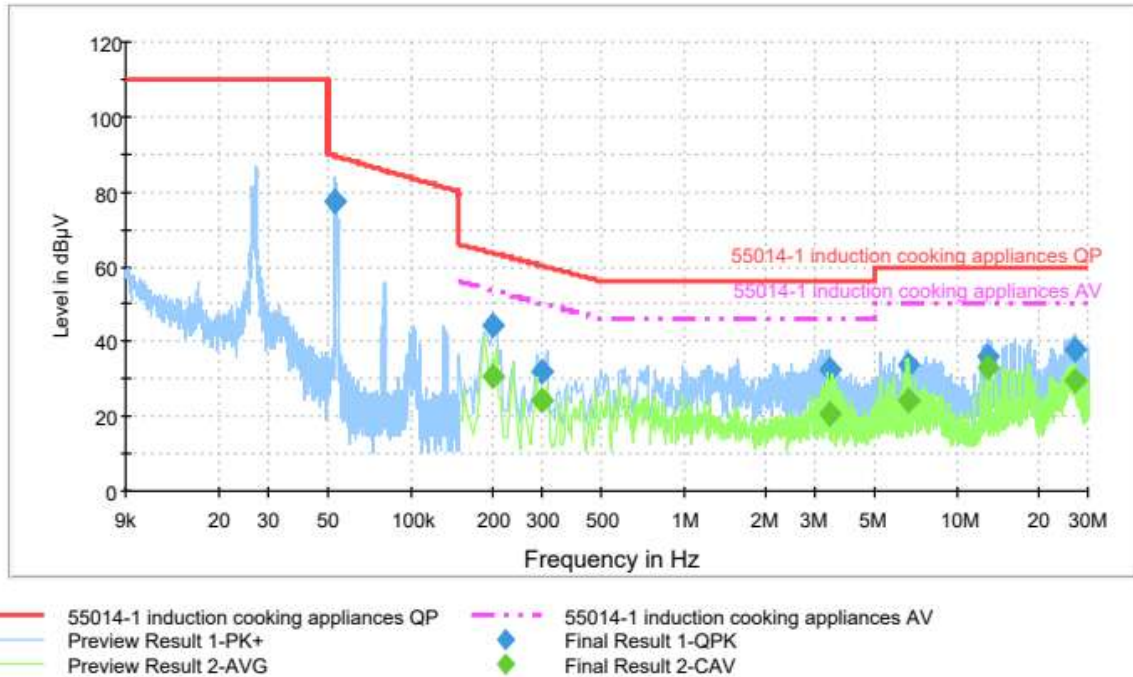
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.045661	78.4	1000.0	0.200	GND	L2	10.2	31.6	110.0	
0.414188	39.5	1000.0	9.000	GND	N	10.3	18.1	57.6	
0.503469	39.7	1000.0	9.000	GND	N	10.3	16.3	56.0	
0.585556	38.7	1000.0	9.000	GND	L2	10.3	17.3	56.0	
0.957875	37.9	1000.0	9.000	GND	N	10.3	18.1	56.0	
3.300294	35.2	1000.0	9.000	GND	N	10.6	20.8	56.0	
26.209631	37.3	1000.0	9.000	GND	L2	10.8	22.7	60.0	

## Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.414188	35.6	1000.0	9.000	GND	N	10.3	12.0	47.6	
0.503469	35.8	1000.0	9.000	GND	N	10.3	10.2	46.0	
0.585556	34.1	1000.0	9.000	GND	L2	10.3	11.9	46.0	
0.957875	29.7	1000.0	9.000	GND	N	10.3	16.3	46.0	
3.300294	26.8	1000.0	9.000	GND	N	10.6	19.2	46.0	
26.209631	32.0	1000.0	9.000	GND	L2	10.8	18.0	50.0	



### Cooking element #3



### Final Result 1

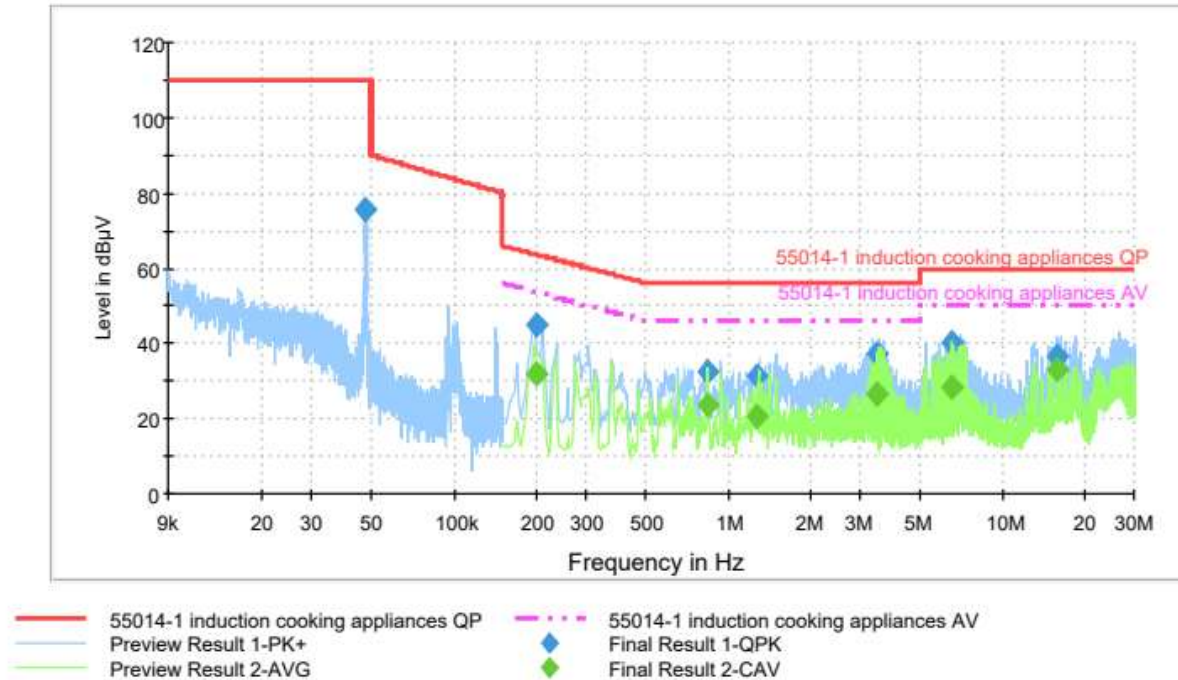
Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.052715	77.4	1000.0	0.200	GND	L1	10.2	12.1	89.5	
0.196969	44.6	1000.0	9.000	GND	N	10.2	19.1	63.7	
0.301175	31.8	1000.0	9.000	GND	L2	10.2	28.4	60.2	
3.405575	32.6	1000.0	9.000	GND	L2	10.4	23.4	56.0	
6.563825	33.7	1000.0	9.000	GND	L1	10.4	26.3	60.0	
12.774744	36.2	1000.0	9.000	GND	N	11.4	23.8	60.0	
26.889288	38.1	1000.0	9.000	GND	L2	10.8	21.9	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.196969	30.9	1000.0	9.000	GND	N	10.2	22.8	53.7	
0.301175	24.1	1000.0	9.000	GND	L2	10.2	26.1	50.2	
3.405575	20.4	1000.0	9.000	GND	L2	10.4	25.6	46.0	
6.563825	24.3	1000.0	9.000	GND	L1	10.4	25.7	50.0	
12.774744	33.0	1000.0	9.000	GND	N	11.4	17.0	50.0	
26.889288	29.4	1000.0	9.000	GND	L2	10.8	20.6	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
0.047079	75.6	1000.0	0.200	GND	L2	10.2	34.4	110.0	
0.198000	45.1	1000.0	9.000	GND	N	10.2	18.6	63.7	
0.839550	32.7	1000.0	9.000	GND	L2	10.3	23.3	56.0	
1.259569	31.3	1000.0	9.000	GND	N	10.3	24.7	56.0	
3.487125	37.1	1000.0	9.000	GND	N	10.6	18.9	56.0	
6.465469	40.0	1000.0	9.000	GND	L1	10.4	20.0	60.0	
15.700581	36.5	1000.0	9.000	GND	N	11.6	23.5	60.0	

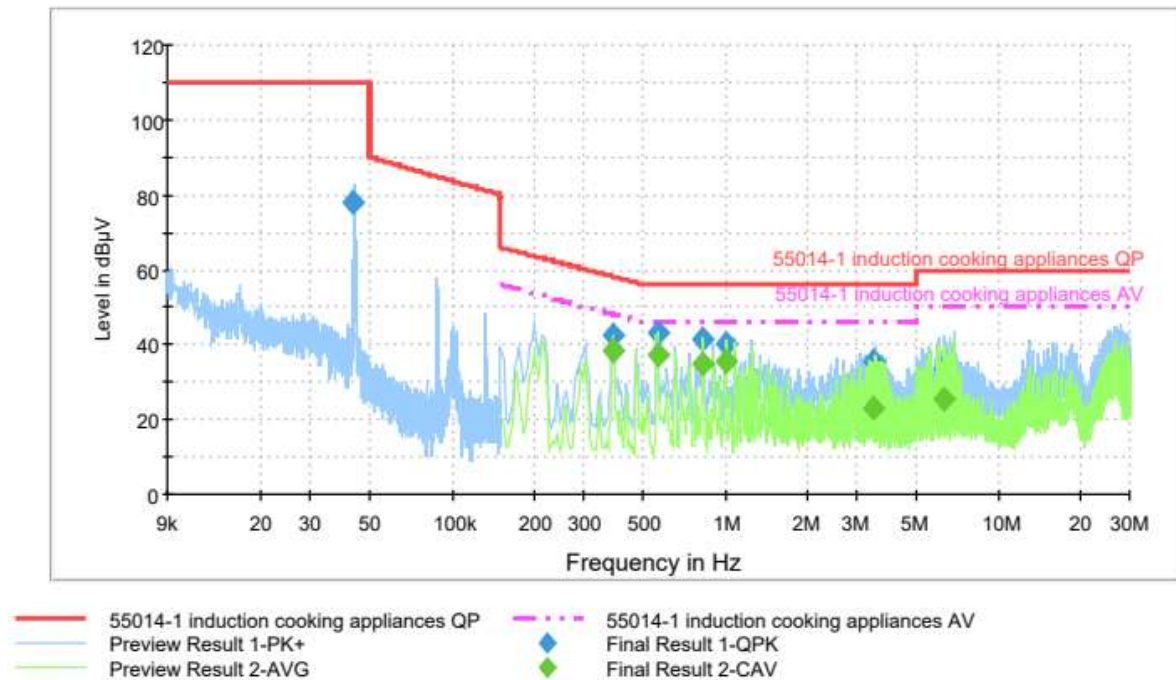
#### Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.198000	31.9	1000.0	9.000	GND	N	10.2	21.8	53.7	
0.839550	23.8	1000.0	9.000	GND	L2	10.3	22.2	46.0	
1.259569	21.0	1000.0	9.000	GND	N	10.3	25.0	46.0	
3.487125	26.7	1000.0	9.000	GND	N	10.6	19.3	46.0	
6.465469	28.3	1000.0	9.000	GND	L1	10.4	21.7	50.0	
15.700581	33.0	1000.0	9.000	GND	N	11.6	17.0	50.0	





AC 240 V / 60 Hz  
Cooking element #1



### Final Result 1

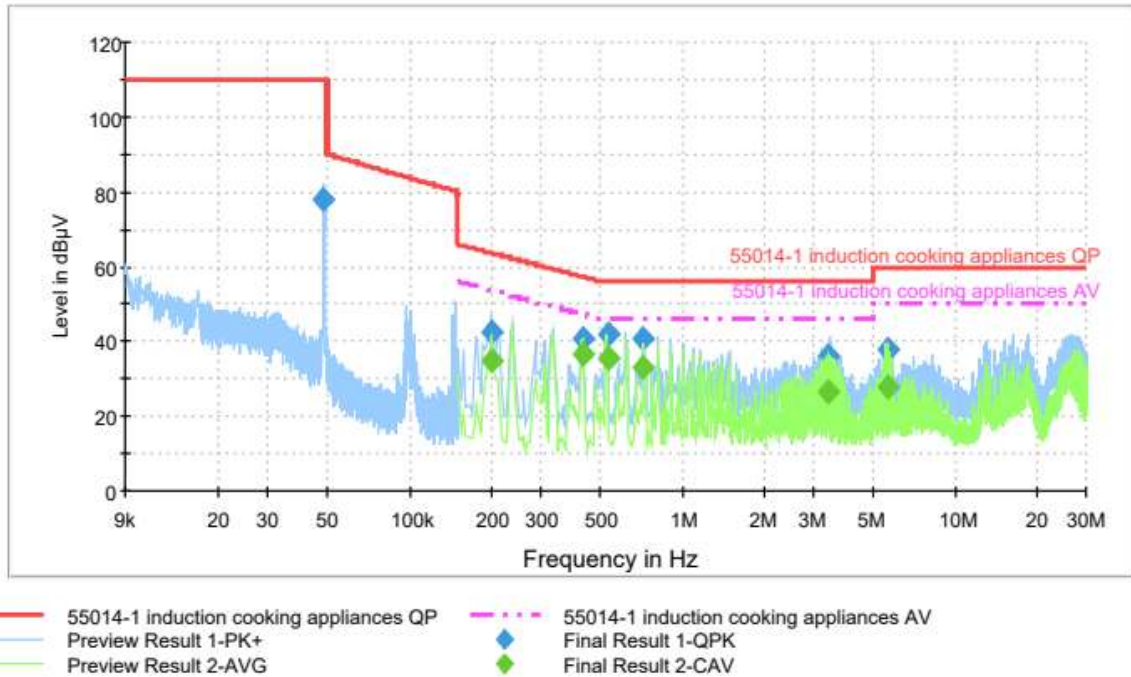
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.043345	78.3	1000.0	0.200	GND	L2	10.2	31.7	110.0	
0.387800	42.9	1000.0	9.000	GND	N	10.2	15.3	58.1	
0.559438	43.3	1000.0	9.000	GND	N	10.3	12.7	56.0	
0.828088	41.3	1000.0	9.000	GND	L1	10.2	14.7	56.0	
0.999994	40.4	1000.0	9.000	GND	L2	10.3	15.6	56.0	
3.483931	35.5	1000.0	9.000	GND	L2	10.4	20.5	56.0	
6.233863	33.7	1000.0	9.000	GND	L2	10.5	26.3	60.0	

### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.387800	38.7	1000.0	9.000	GND	N	10.2	9.4	48.1	
0.559438	37.0	1000.0	9.000	GND	N	10.3	9.0	46.0	
0.828088	35.1	1000.0	9.000	GND	L1	10.2	10.9	46.0	
0.999994	35.3	1000.0	9.000	GND	L2	10.3	10.7	46.0	
3.483931	23.0	1000.0	9.000	GND	L2	10.4	23.0	46.0	
6.233863	25.4	1000.0	9.000	GND	L2	10.5	24.6	50.0	



## Cooking element #2



## Final Result 1

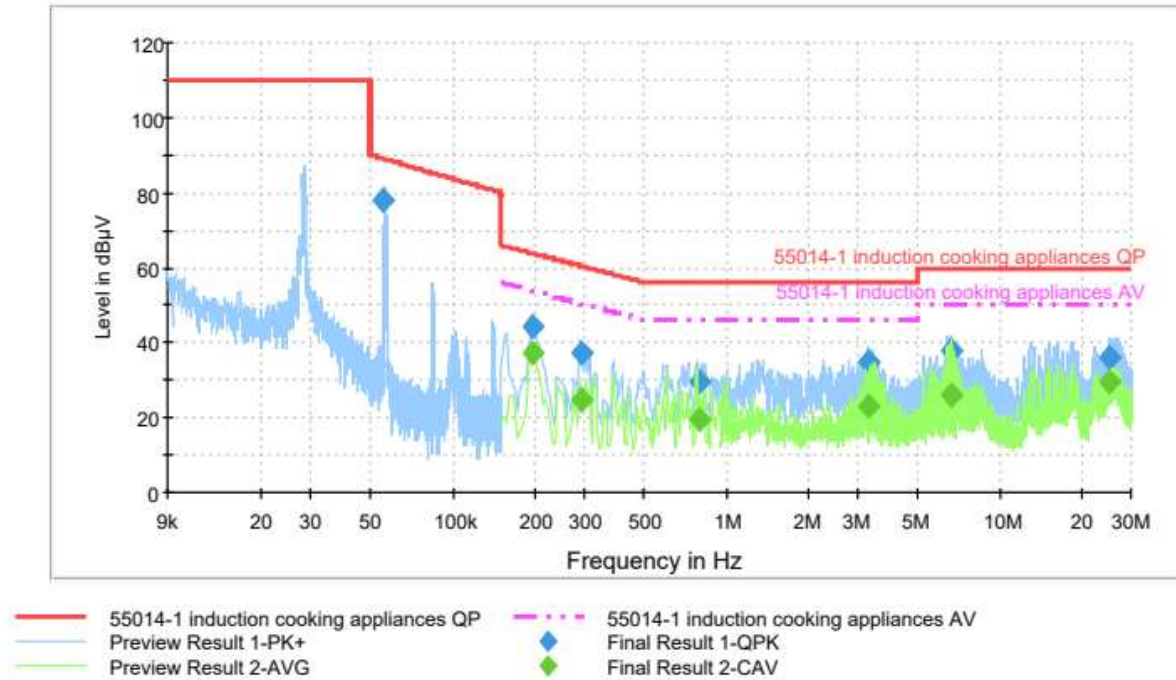
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.047902	78.0	1000.0	0.200	GND	L2	10.2	32.0	110.0	
0.198819	42.5	1000.0	9.000	GND	L2	10.2	21.1	63.7	
0.432844	41.0	1000.0	9.000	GND	N	10.3	16.2	57.2	
0.530125	41.7	1000.0	9.000	GND	N	10.3	14.3	56.0	
0.716419	40.8	1000.0	9.000	GND	N	10.3	15.2	56.0	
3.424231	36.0	1000.0	9.000	GND	L1	10.3	20.0	56.0	
5.639281	37.6	1000.0	9.000	GND	L2	10.5	22.4	60.0	

## Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.198819	34.9	1000.0	9.000	GND	L2	10.2	18.8	53.7	
0.432844	36.7	1000.0	9.000	GND	N	10.3	10.5	47.2	
0.530125	35.5	1000.0	9.000	GND	N	10.3	10.5	46.0	
0.716419	33.3	1000.0	9.000	GND	N	10.3	12.7	46.0	
3.424231	26.8	1000.0	9.000	GND	L1	10.3	19.2	46.0	
5.639281	27.7	1000.0	9.000	GND	L2	10.5	22.3	50.0	



### Cooking element #3



### Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.055297	77.9	1000.0	0.200	GND	N	10.2	11.2	89.1	
0.194000	44.4	1000.0	9.000	GND	N	10.2	19.5	63.9	
0.295056	37.4	1000.0	9.000	GND	N	10.2	23.0	60.4	
0.788119	29.8	1000.0	9.000	GND	L2	10.3	26.2	56.0	
3.298175	34.9	1000.0	9.000	GND	N	10.6	21.1	56.0	
6.603256	37.9	1000.0	9.000	GND	L2	10.5	22.1	60.0	
25.113988	36.3	1000.0	9.000	GND	L2	10.8	23.7	60.0	

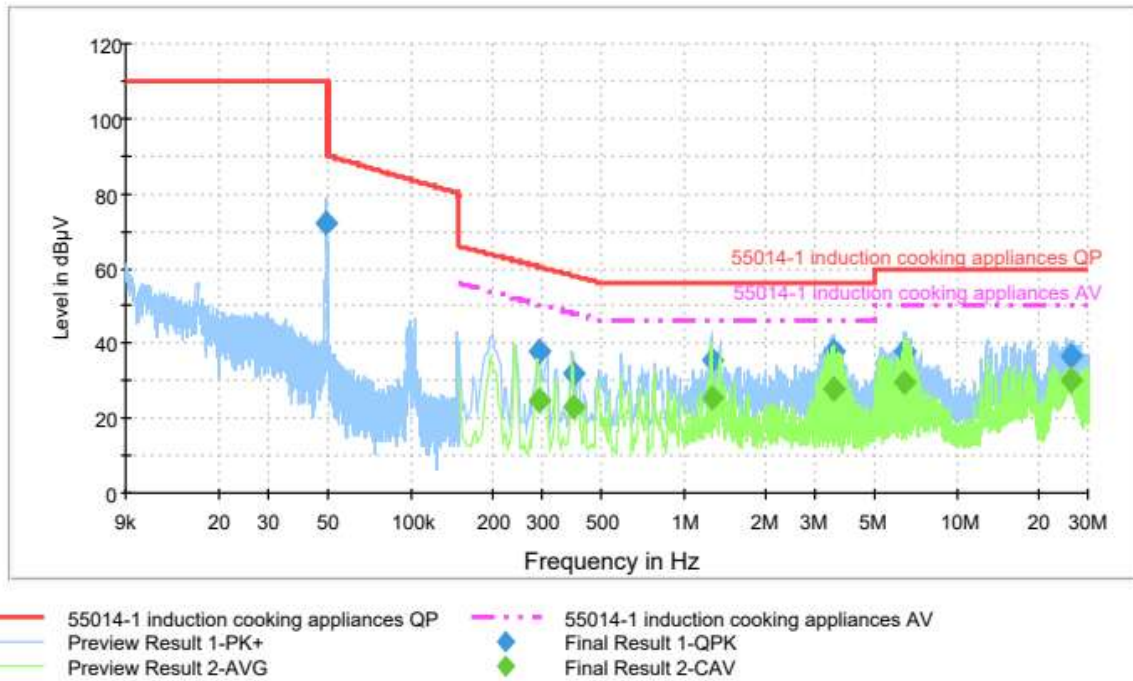
### Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.194000	37.2	1000.0	9.000	GND	N	10.2	16.6	53.9	
0.295056	25.0	1000.0	9.000	GND	N	10.2	25.4	50.4	
0.788119	19.6	1000.0	9.000	GND	L2	10.3	26.4	46.0	
3.298175	22.8	1000.0	9.000	GND	N	10.6	23.2	46.0	
6.603256	26.2	1000.0	9.000	GND	L2	10.5	23.8	50.0	
25.113988	29.7	1000.0	9.000	GND	L2	10.8	20.3	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
0.048900	72.3	1000.0	0.200	GND	L1	10.2	37.7	110.0	
0.294788	37.8	1000.0	9.000	GND	N	10.2	22.6	60.4	
0.391800	32.2	1000.0	9.000	GND	L1	10.2	25.8	58.0	
1.257450	35.2	1000.0	9.000	GND	N	10.3	20.8	56.0	
3.552438	38.1	1000.0	9.000	GND	N	10.6	17.9	56.0	
6.392188	38.0	1000.0	9.000	GND	L2	10.5	22.0	60.0	
25.924475	36.7	1000.0	9.000	GND	L2	10.8	23.3	60.0	

#### Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.294788	25.1	1000.0	9.000	GND	N	10.2	25.3	50.4	
0.391800	22.8	1000.0	9.000	GND	L1	10.2	25.2	48.0	
1.257450	25.6	1000.0	9.000	GND	N	10.3	20.4	46.0	
3.552438	27.6	1000.0	9.000	GND	N	10.6	18.4	46.0	
6.392188	29.3	1000.0	9.000	GND	L2	10.5	20.7	50.0	
25.924475	30.3	1000.0	9.000	GND	L2	10.8	19.7	50.0	



## 7. Radiated Emission

### 7.1 Operating Environment

Temperature : 21.0 °C  
Relative Humidity : 61.1 %  
Air Pressure : 99.5 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.

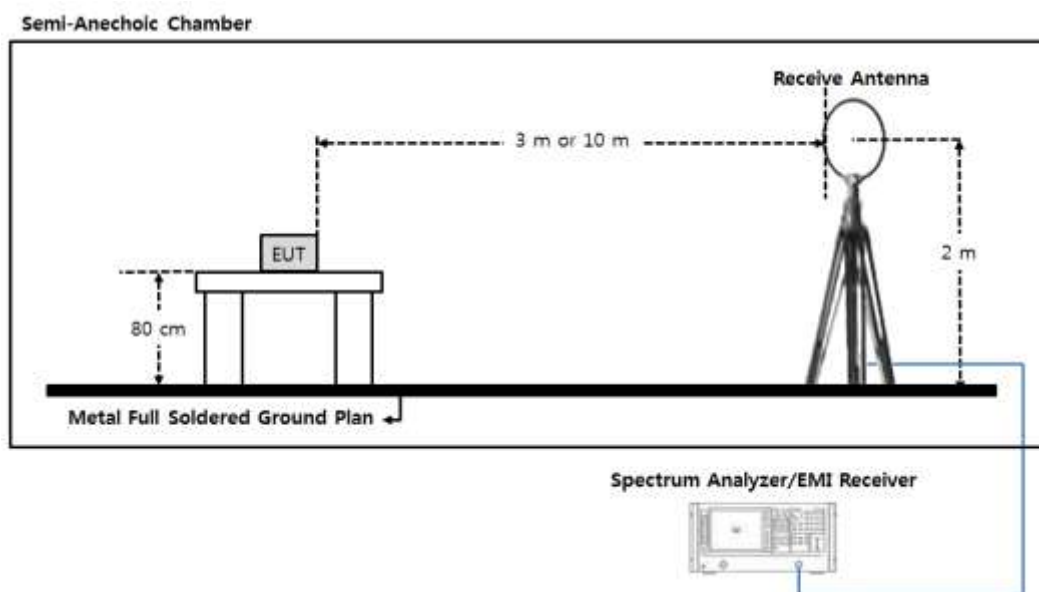


Fig 3. Configurations of Radiated emission test (9 kHz to 30 MHz)

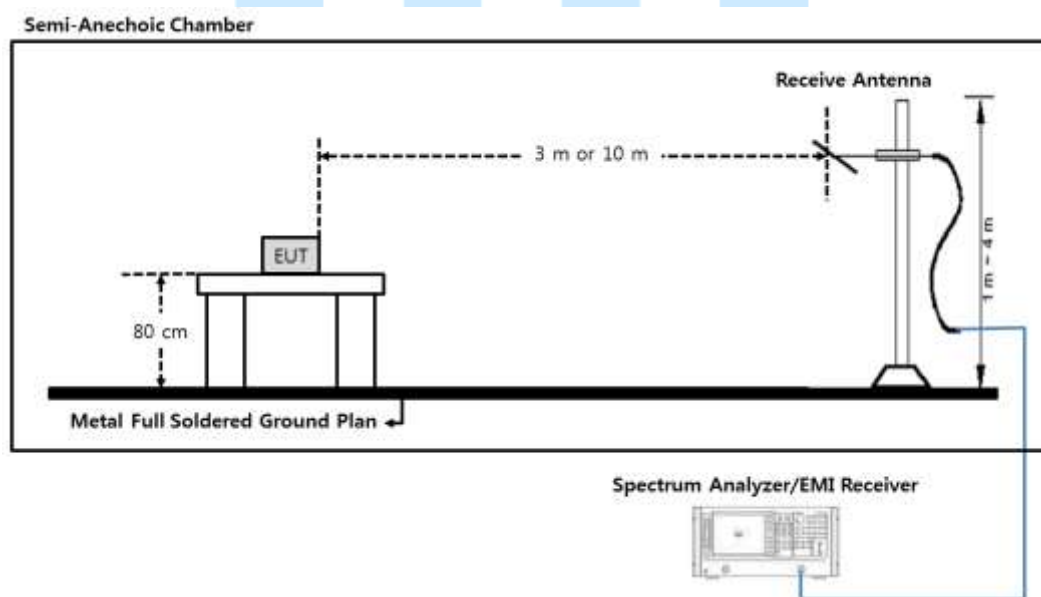


Fig 4. Configurations of Radiated emission test (30 MHz to 1 000 MHz)



### 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 % ( $k = 2$ )

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 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 ( <sup>2</sup> )	1,600 ( <sup>2</sup> )
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	$2,400/\text{F}(\text{kHz})$ $2,400/\text{F}(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 <sup>3</sup> 300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	$24,000/\text{F}(\text{kHz})$ 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	<sup>4</sup> 30 <sup>4</sup> 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. 02, 2025
■ - HFH2-Z2	Rohde & Schwarz	Loop ANT	100041	Apr. 15, 2024
■ - CO3000	Innco system GmbH	Position Controller	CO3000/779/33050314/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 : Aug. 06, 2025  
- Measurement Distance : 10 m  
- Note : Since the frequency band in which the EUT operates is less than 1.705 MHz, it was tested up to 30 MHz.

#### - Measurement setting

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

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 Distance Correction Factor (D.C.F.)

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

For 30 m:  $40\log(30/3) = 40.00 \text{ dB}$

Note.3 Sample calculation

Field Strength = Reading – D.C.F

Margin = Limit – Field Strength

Where, D.C.F = Distance Correction Factor

Note.4 “V1”= Vertical and perpendicular to the centerline / “V2”=vertical and parallel to the centerline

“H” = horizontal (parallel to the ground)

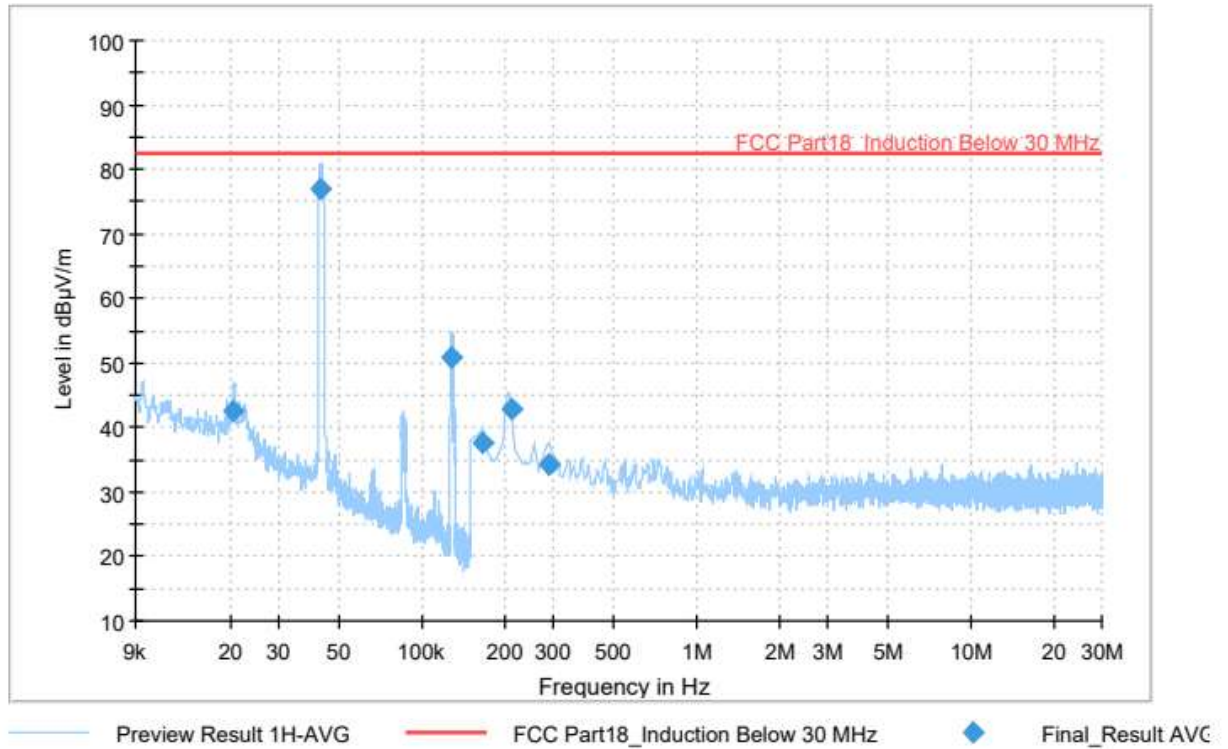
Note.5 Cooking element

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



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

Cooking Element #1\_H

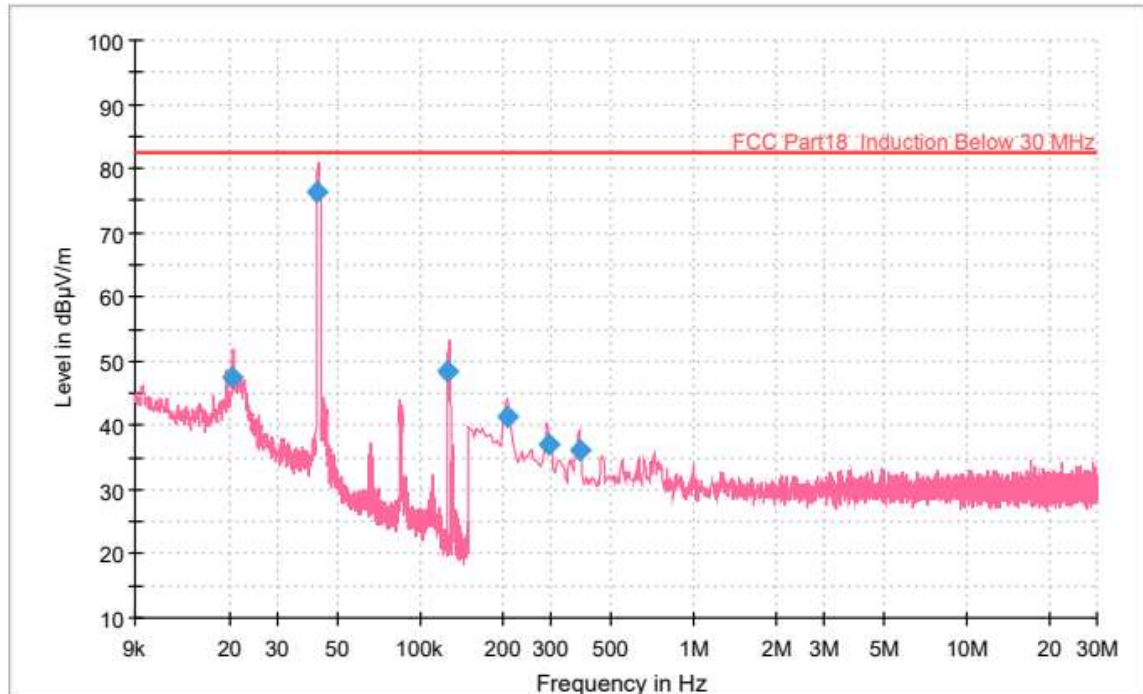


## Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020522	42.70	82.60	39.90	1000.0	0.200	H	354.0	20.3
0.042334	76.87	82.60	5.73	1000.0	0.200	H	69.0	20.1
0.127032	50.77	82.60	31.83	1000.0	0.200	H	69.0	20.0
0.164925	37.61	82.60	44.99	1000.0	9.000	H	44.0	19.9
0.209925	42.98	82.60	39.62	1000.0	9.000	H	69.0	19.9
0.291056	34.19	82.60	48.41	1000.0	9.000	H	87.0	19.9



### Cooking Element #1\_V



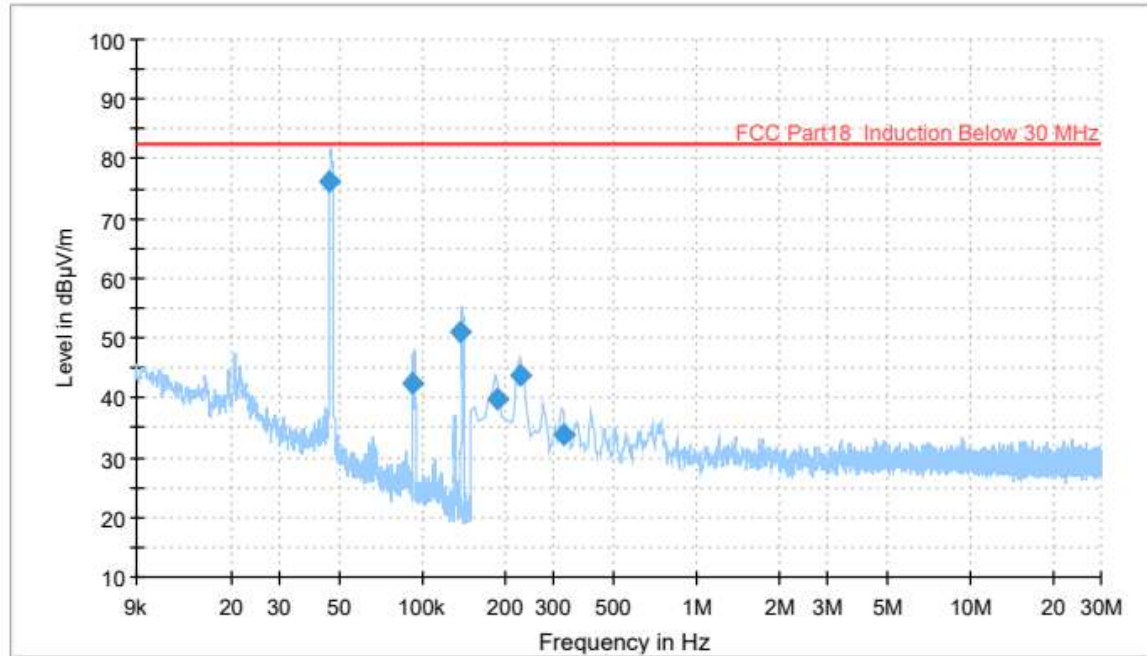
Preview Result 1H-AVG      FCC Part18\_Induction Below 30 MHz      Final\_Result AVC

### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020540	47.53	82.60	35.07	1000.0	0.200	V	64.0	20.3
0.042041	76.37	82.60	6.23	1000.0	0.200	V	142.0	20.1
0.126357	48.51	82.60	34.09	1000.0	0.200	V	142.0	20.0
0.208700	41.26	82.60	41.34	1000.0	9.000	V	132.0	19.9
0.294788	37.06	82.60	45.54	1000.0	9.000	V	96.0	19.9
0.384338	36.18	82.60	46.42	1000.0	9.000	V	161.0	19.9



## Cooking Element #2\_H



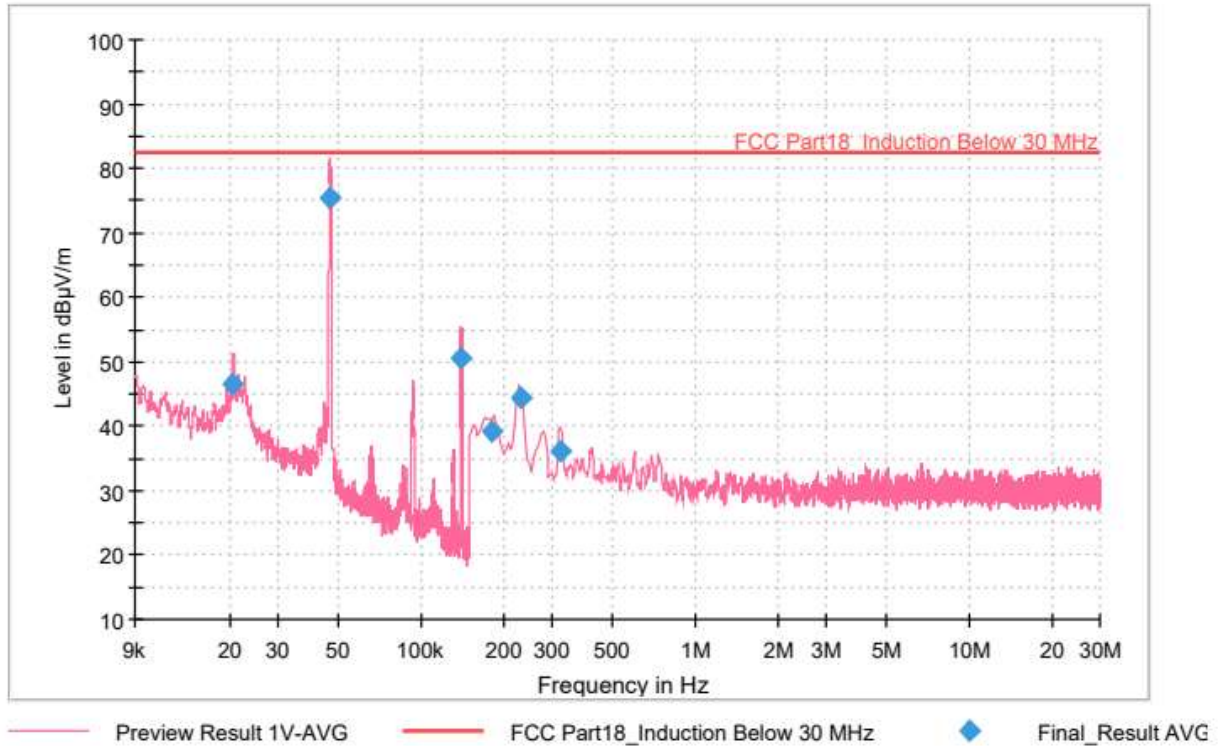
Preview Result 1H-AVG FCC Part18\_Induction Below 30 MHz Final\_Result AVC

## Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.045962	76.33	82.60	6.27	1000.0	0.200	H	160.0	20.0
0.091932	42.49	82.60	40.11	1000.0	0.200	H	0.0	20.0
0.137492	51.17	82.60	31.43	1000.0	0.200	H	354.0	20.0
0.187356	39.64	82.60	42.96	1000.0	9.000	H	0.0	19.9
0.228581	43.60	82.60	39.00	1000.0	9.000	H	41.0	19.8
0.324638	33.82	82.60	48.78	1000.0	9.000	H	0.0	19.8



## Cooking Element #2\_V



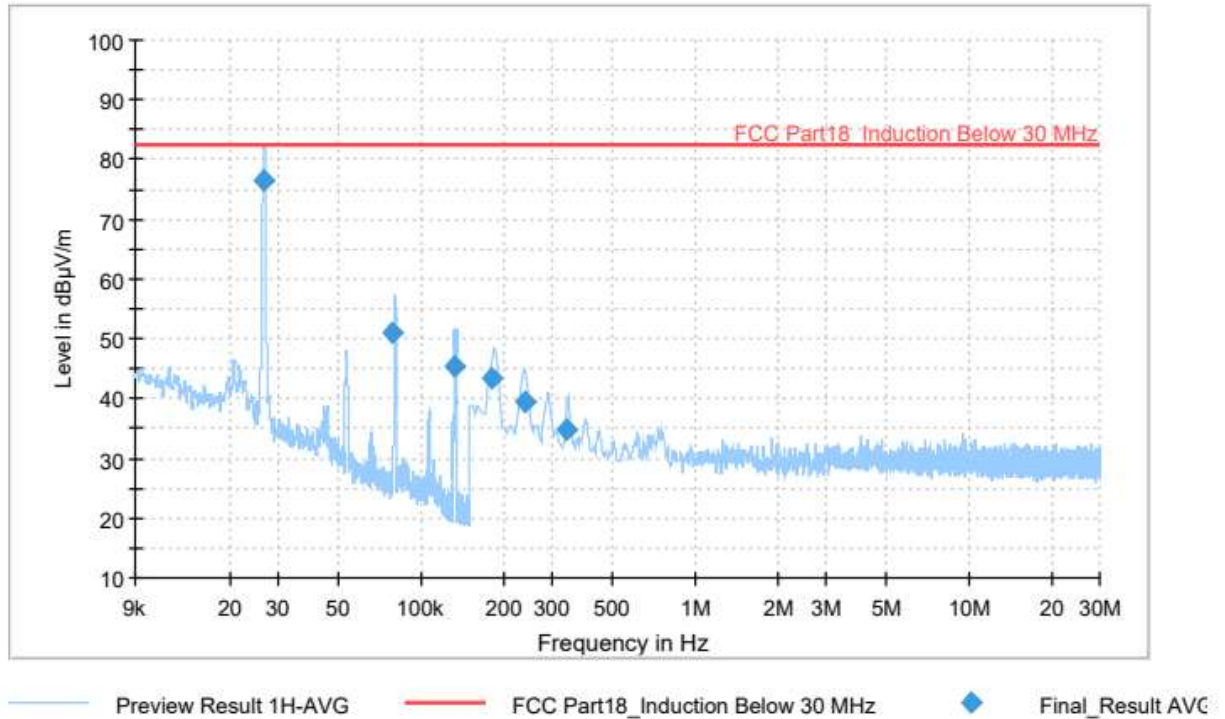
## Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020575	46.69	82.60	35.91	1000.0	0.200	V	351.0	20.3
0.046280	75.53	82.60	7.07	1000.0	0.200	V	103.0	20.1
0.138276	50.48	82.60	32.12	1000.0	0.200	V	103.0	20.0
0.182000	39.08	82.60	43.52	1000.0	9.000	V	110.0	20.0
0.231356	44.41	82.60	38.19	1000.0	9.000	V	122.0	19.9
0.320906	36.20	82.60	46.40	1000.0	9.000	V	138.0	19.9





### Cooking Element #3\_H

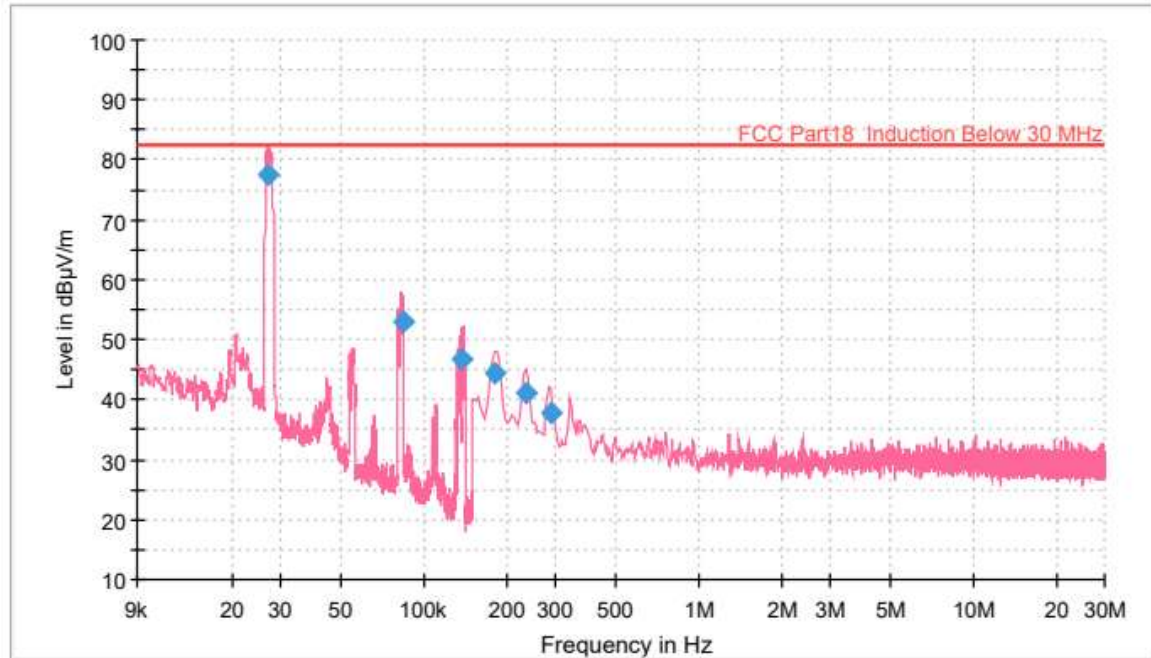


### Final Result

Frequency (MHz)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.026460	76.63	82.60	5.97	1000.0	0.200	H	76.0	20.1
0.078588	51.10	82.60	31.50	1000.0	0.200	H	222.0	20.0
0.131868	45.37	82.60	37.23	1000.0	0.200	H	238.0	20.0
0.182000	43.29	82.60	39.31	1000.0	9.000	H	279.0	19.9
0.238550	39.55	82.60	43.05	1000.0	9.000	H	102.0	19.8
0.339025	34.71	82.60	47.89	1000.0	9.000	H	246.0	19.8



### Cooking Element #3\_V



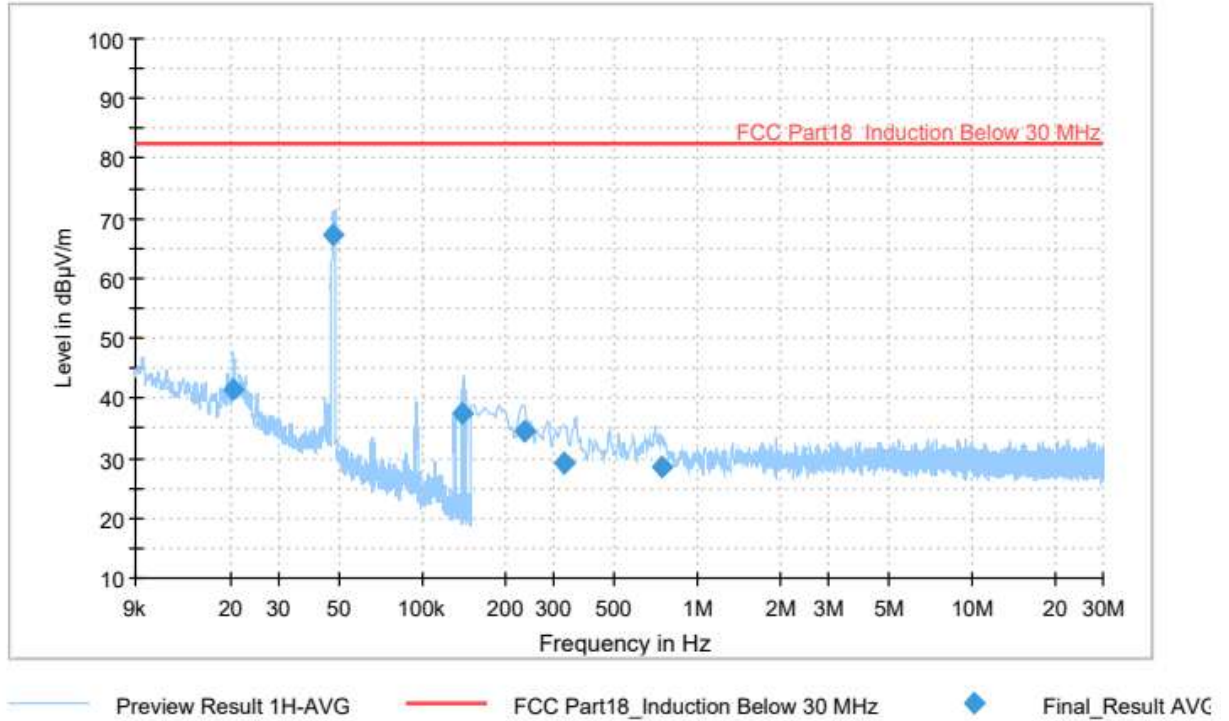
Preview Result 1V-AVG FCC Part18\_Induction Below 30 MHz Final\_Result AVG

### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.026942	77.48	82.60	5.12	1000.0	0.200	V	188.0	20.1
0.083479	53.06	82.60	29.54	1000.0	0.200	V	156.0	20.0
0.137366	46.89	82.60	35.71	1000.0	0.200	V	156.0	20.0
0.182000	44.51	82.60	38.09	1000.0	9.000	V	169.0	19.9
0.234819	41.08	82.60	41.52	1000.0	9.000	V	181.0	19.8
0.287325	37.96	82.60	44.64	1000.0	9.000	V	157.0	19.8



#### Cooking Element #4\_H



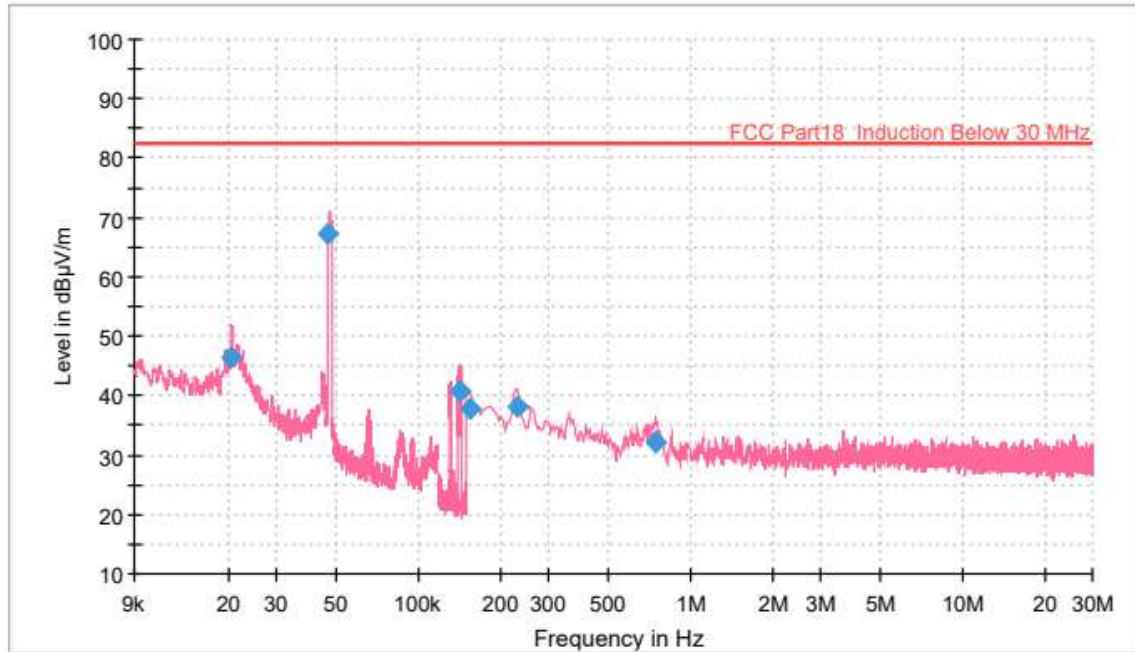
#### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020549	41.39	82.60	41.21	1000.0	0.200	H	351.0	20.3
0.047450	67.31	82.60	15.29	1000.0	0.200	H	84.0	20.0
0.140285	37.41	82.60	45.19	1000.0	0.200	H	157.0	20.0
0.235088	34.55	82.60	48.05	1000.0	9.000	H	29.0	19.8
0.325681	29.30	82.60	53.30	1000.0	9.000	H	359.0	19.8
0.744956	28.43	82.60	54.17	1000.0	9.000	H	37.0	19.8





#### Cooking Element #4\_V



Preview Result 1V-AVG      FCC Part18\_Induction Below 30 MHz      Final\_Result AVG

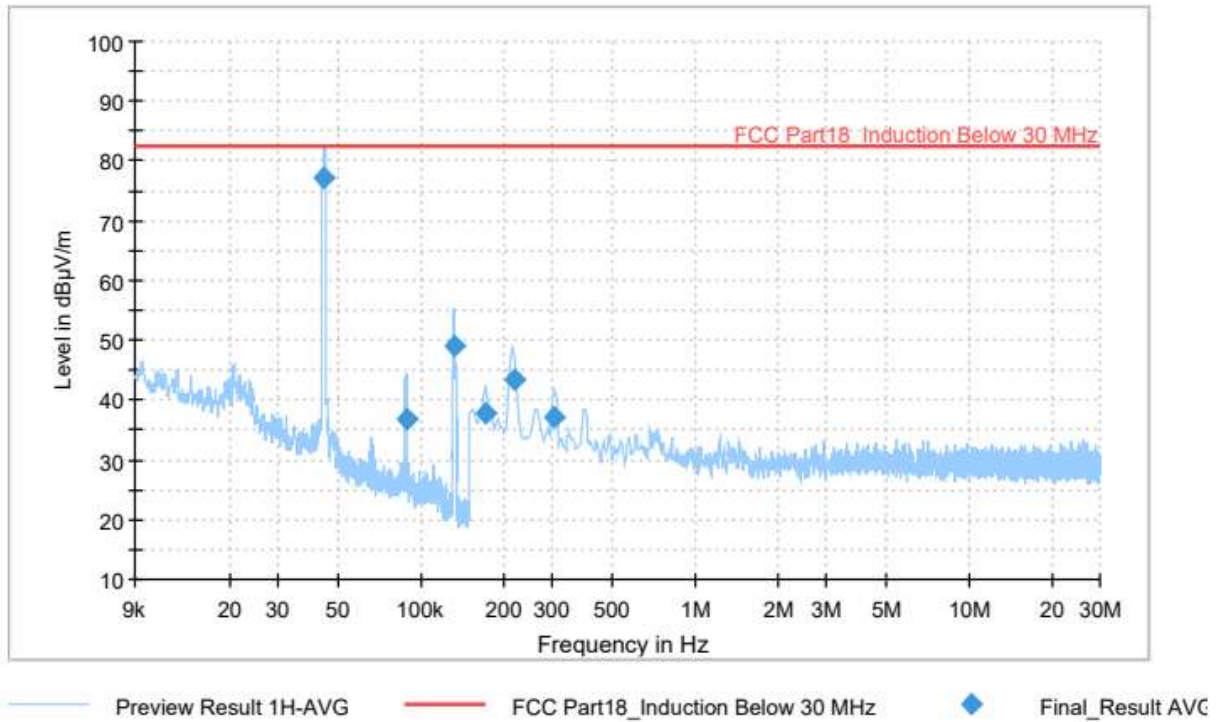
#### Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020407	46.43	82.60	36.17	1000.0	0.200	V	350.0	20.3
0.046630	67.15	82.60	15.45	1000.0	0.200	V	24.0	20.1
0.140760	40.91	82.60	41.69	1000.0	0.200	V	356.0	20.0
0.154000	37.77	82.60	44.83	1000.0	9.000	V	42.0	19.9
0.231088	38.14	82.60	44.46	1000.0	9.000	V	175.0	19.8
0.746269	32.01	82.60	50.59	1000.0	9.000	V	78.0	19.8



[AC 240 V, 60 Hz]

Cooking Element #1\_H

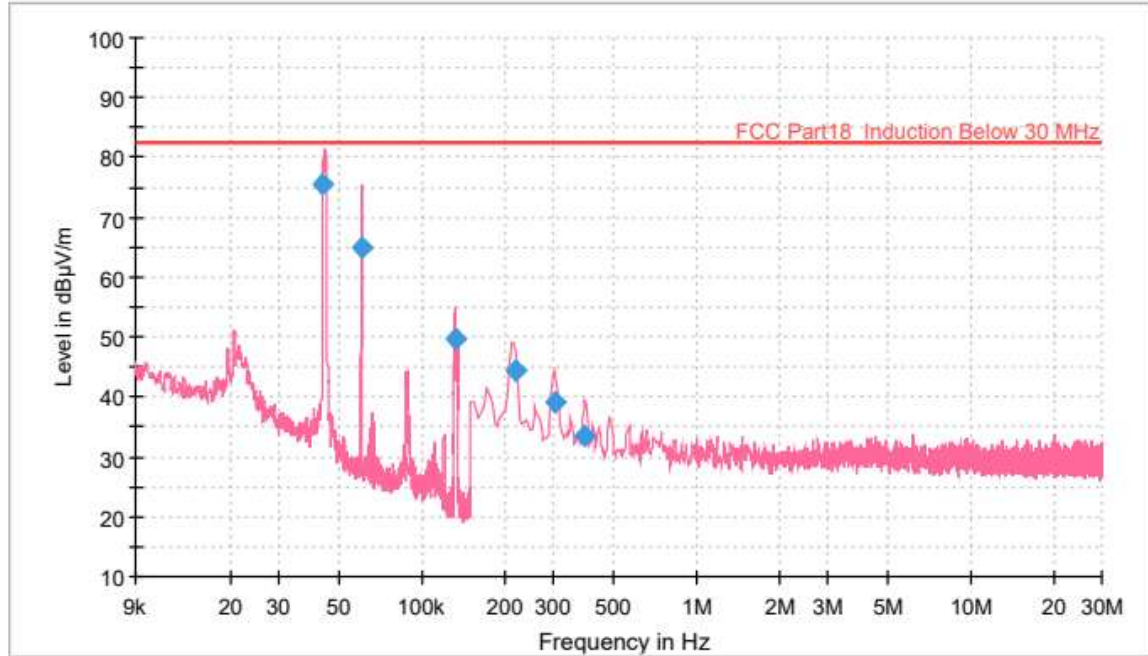


## Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.043996	77.30	82.60	5.30	1000.0	0.200	H	64.0	20.0
0.087718	36.87	82.60	45.73	1000.0	0.200	H	64.0	20.0
0.132062	48.96	82.60	33.64	1000.0	0.200	H	64.0	20.0
0.172388	37.83	82.60	44.77	1000.0	9.000	H	222.0	19.9
0.220431	43.44	82.60	39.16	1000.0	9.000	H	69.0	19.9
0.305981	37.12	82.60	45.48	1000.0	9.000	H	69.0	19.8



### Cooking Element #1\_V



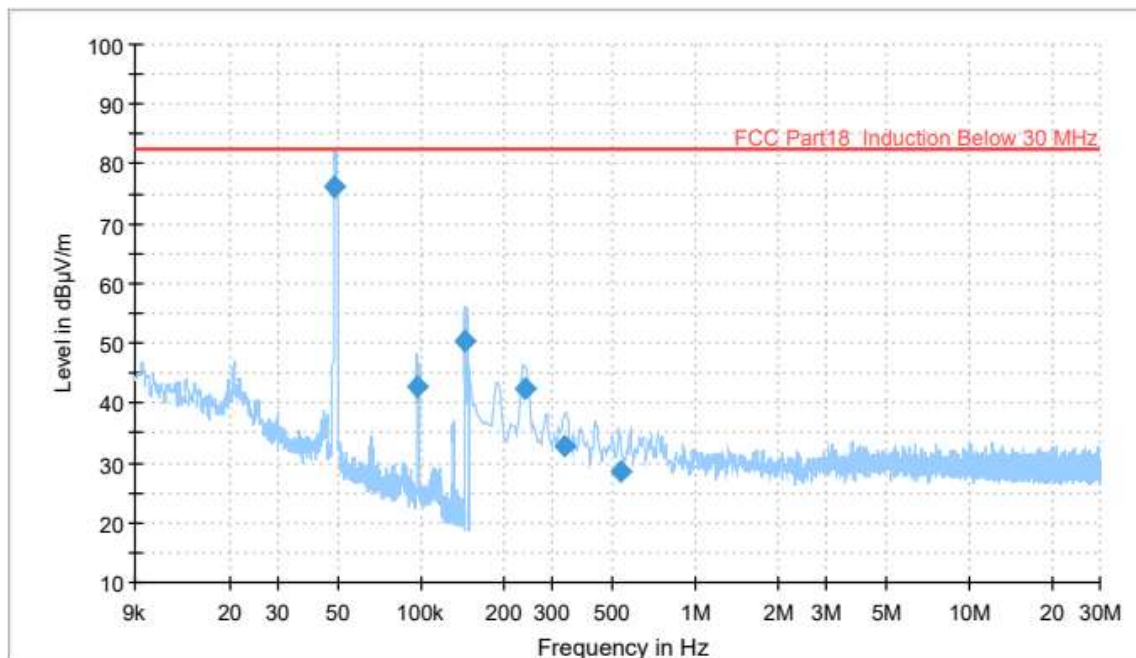
Preview Result 1V-AVG FCC Part18\_Induction Below 30 MHz Final\_Result AVG

### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.043516	75.59	82.60	7.01	1000.0	0.200	V	141.0	20.1
0.059744	64.90	82.60	17.70	1000.0	0.200	V	0.0	20.0
0.132382	49.84	82.60	32.76	1000.0	0.200	V	141.0	20.0
0.220163	44.27	82.60	38.33	1000.0	9.000	V	170.0	19.9
0.305981	39.21	82.60	43.39	1000.0	9.000	V	161.0	19.8
0.391531	33.53	82.60	49.07	1000.0	9.000	V	145.0	19.8



## Cooking Element #2\_H



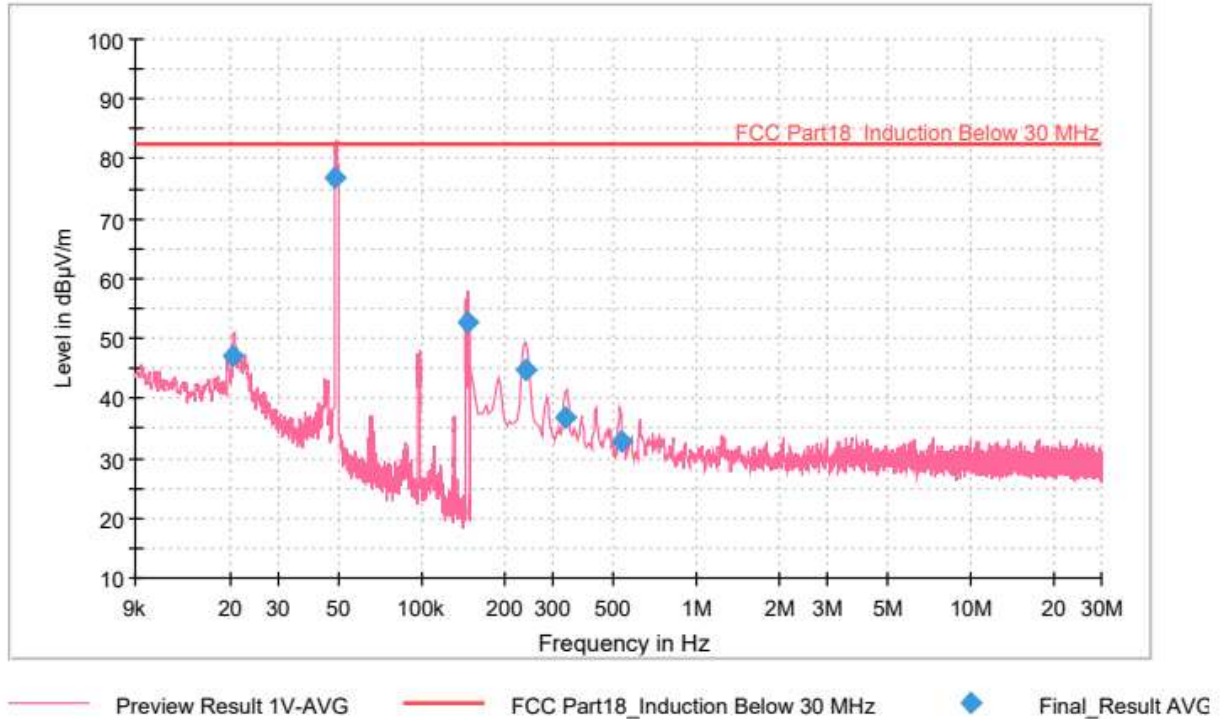
Preview Result 1H-AVG FCC Part18 Induction Below 30 MHz Final\_Result AVC

## Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.047881	76.15	82.60	6.45	1000.0	0.200	H	19.0	20.0
0.096369	42.71	82.60	39.89	1000.0	0.200	H	19.0	20.0
0.144554	50.47	82.60	32.13	1000.0	0.200	H	19.0	20.0
0.238550	42.45	82.60	40.15	1000.0	9.000	H	25.0	19.8
0.335563	32.96	82.60	49.64	1000.0	9.000	H	25.0	19.8
0.534094	28.39	82.60	54.21	1000.0	9.000	H	25.0	19.8



## Cooking Element #2\_V



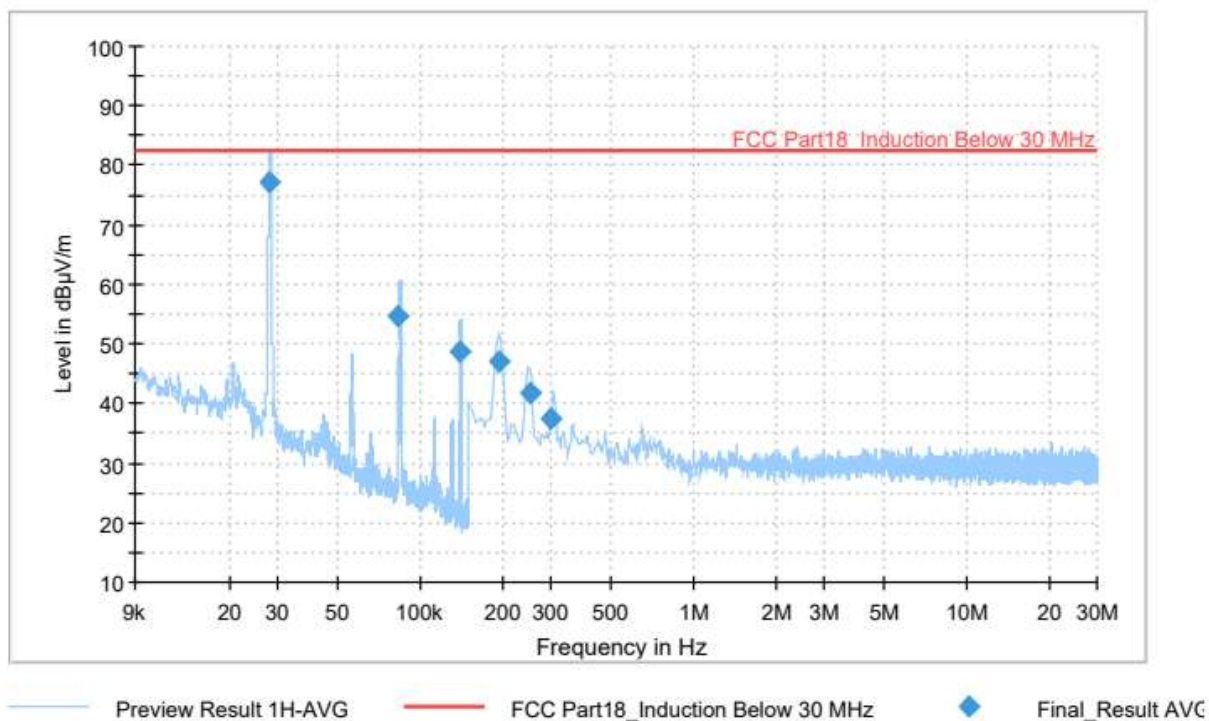
## Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020575	47.01	82.60	35.59	1000.0	0.200	V	212.0	20.3
0.048196	76.93	82.60	5.67	1000.0	0.200	V	88.0	20.1
0.145880	52.76	82.60	29.84	1000.0	0.200	V	88.0	20.0
0.238550	44.88	82.60	37.72	1000.0	9.000	V	130.0	19.8
0.335563	36.70	82.60	45.90	1000.0	9.000	V	55.0	19.8
0.529856	32.91	82.60	49.69	1000.0	9.000	V	110.0	19.8





### Cooking Element #3\_H

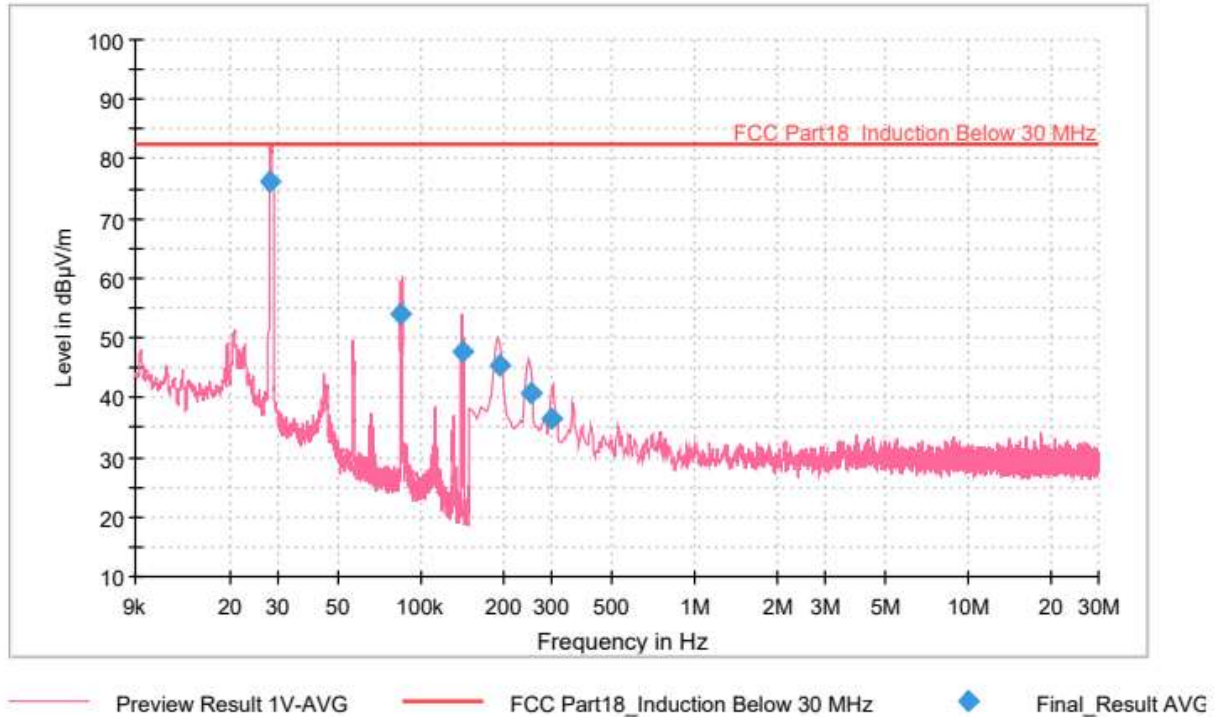


### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.028194	77.20	82.60	5.40	1000.0	0.200	H	84.0	20.1
0.083188	54.58	82.60	28.02	1000.0	0.200	H	223.0	20.0
0.140266	48.55	82.60	34.05	1000.0	0.200	H	223.0	20.0
0.194000	46.97	82.60	35.63	1000.0	9.000	H	267.0	19.9
0.249744	41.86	82.60	40.74	1000.0	9.000	H	88.0	19.8
0.301713	37.48	82.60	45.12	1000.0	9.000	H	88.0	19.8



### Cooking Element #3\_V

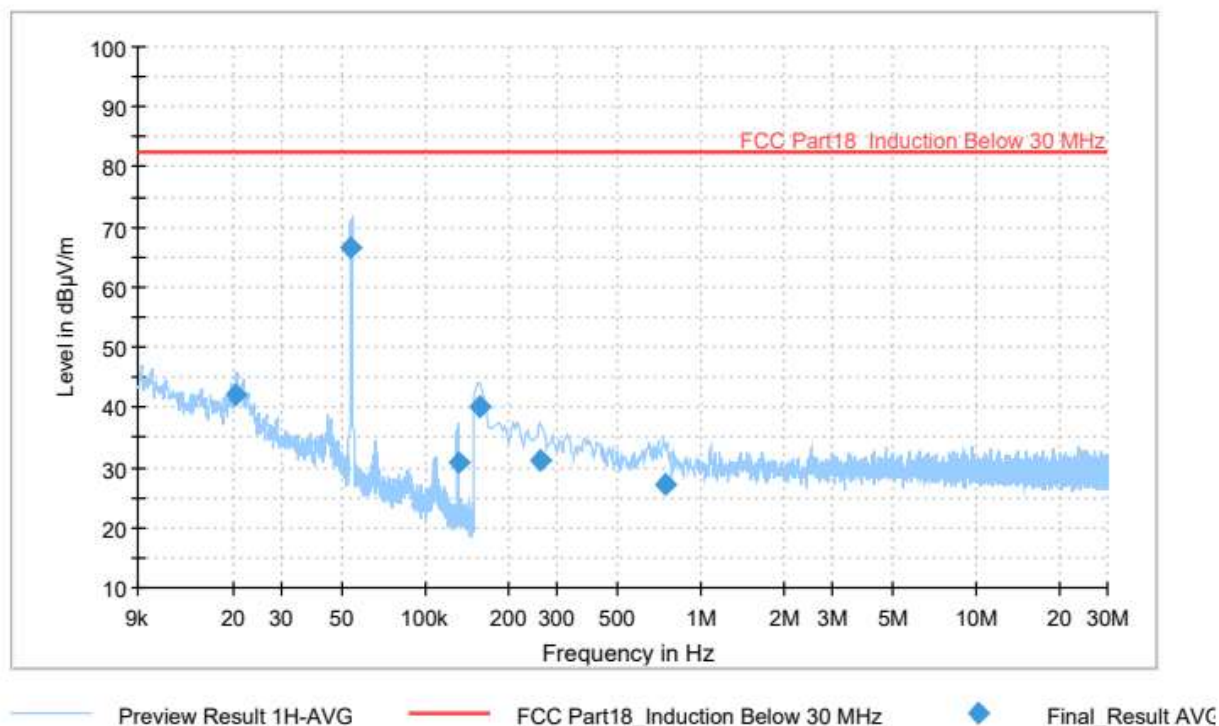


### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027986	76.03	82.60	6.57	1000.0	0.200	V	183.0	20.1
0.084379	53.87	82.60	28.73	1000.0	0.200	V	163.0	20.0
0.142117	47.84	82.60	34.76	1000.0	0.200	V	163.0	20.0
0.194000	45.54	82.60	37.06	1000.0	9.000	V	163.0	19.9
0.250013	40.67	82.60	41.93	1000.0	9.000	V	163.0	19.8
0.301981	36.41	82.60	46.19	1000.0	9.000	V	163.0	19.8



#### Cooking Element #4\_H



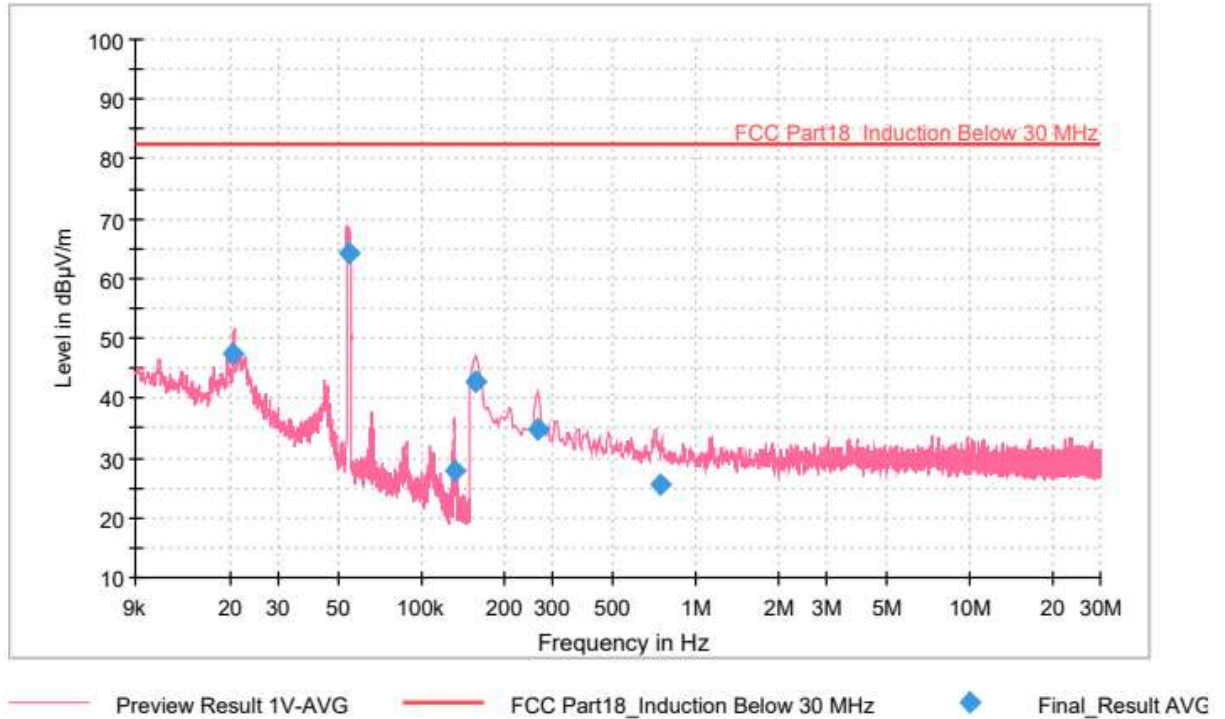
#### Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020610	42.10	82.60	40.50	1000.0	0.200	H	45.0	20.3
0.053094	66.64	82.60	15.96	1000.0	0.200	H	97.0	20.0
0.131252	31.01	82.60	51.59	1000.0	0.200	H	72.0	20.0
0.158000	40.22	82.60	42.38	1000.0	9.000	H	118.0	19.9
0.260938	31.31	82.60	51.29	1000.0	9.000	H	287.0	19.8
0.742806	27.21	82.60	55.39	1000.0	9.000	H	161.0	19.8





#### Cooking Element #4\_V



#### Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020592	47.23	82.60	35.37	1000.0	0.200	V	39.0	20.3
0.053839	64.14	82.60	18.46	1000.0	0.200	V	204.0	20.0
0.131427	27.73	82.60	54.87	1000.0	0.200	V	18.0	20.0
0.158000	42.72	82.60	39.88	1000.0	9.000	V	0.0	19.9
0.264669	34.73	82.60	47.87	1000.0	9.000	V	173.0	19.8
0.744419	25.42	82.60	57.18	1000.0	9.000	V	80.0	19.8



## 8. Sample Calculations

$$\begin{aligned} \text{dB}\mu\text{V} &= 20 \text{ Log}_{10}(\mu\text{V}/\text{m}) \\ \text{dB}\mu\text{V} &= \text{dBm} + 107 \\ \mu\text{V} &= 10^{(\text{dB}\mu\text{V}/20)} \end{aligned}$$

### 8.1 Example 1 :

#### ■ 20.3 MHz

Class B Limit	= 250 $\mu\text{V}$ = 48 dB $\mu\text{V}$
Reading	= 39.2 dB $\mu\text{V}$
$10^{(39.2\text{dB}\mu\text{V}/20)}$	= 91.2 $\mu\text{V}$
Margin	= 48 dB $\mu\text{V}$ - 39.2 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 dB $\mu\text{V}/\text{m}$
Reading	= 31.0 dB $\mu\text{V}$
Antenna Factor + Cable Loss	= 5.8 dB
Total	= 36.8 dB $\mu\text{V}/\text{m}$
Margin	= 40.0 dB $\mu\text{V}/\text{m}$ – 36.8 dB $\mu\text{V}/\text{m}$ = 3.2 dB



## 9. Recommendation & Conclusion

The data collected shows that the **HOUSEHOLD ELECTRIC RANGE (Model Name: LRIN6323YE)** was complies with §18.305 and 18.307 of the FCC Rules.

- The end -

