

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: May 23, 2024
Order Number: GETEC-C1-24-362
Test Report Number: GETEC-E3-24-081
Test Site: GUMI UNIVERSITY EMC CENTER
CAB Designation Number: KR0033

FCC ID. : BEJQ40A41IB

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	: SKSIT3001GE
Family Model	: CBIS3018BE, CBIK3019GE
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 best 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,



Reviewed by,



Tak Dong Kim, Associate Engineer
GUMI UNIVERSITY EMC CENTER

Sung Joo Park, Technical Manager
GUMI UNIVERSITY EMC CENTER

GETEC-QP-16-008 (Rev.01)

EMC CENTER

This test report only contains the result of a specific sample supplied by applicant for the testing.
It is not allowed to copy this report even partly without the approval of EMC center



Revision list

Test Report No.	Issue Date	Description
GETEC-E3-24-081	May 23, 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

Contact Person: David Kim / Team leader

Telephone Number: 1-201-266-2443

● FCC ID.	BEJQ40A41IB
● EUT Type	HOUSEHOLD COOKTOP
● Model Name	SKSIT3001GE
● Family Model	CBIS3018BE, CBIK3019GE
● 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	May 17, 2024 ~ May 18, 2024
● 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-E3-24-081
● Dates of Issue	May 23, 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: SKSIT3001GE)**.

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)

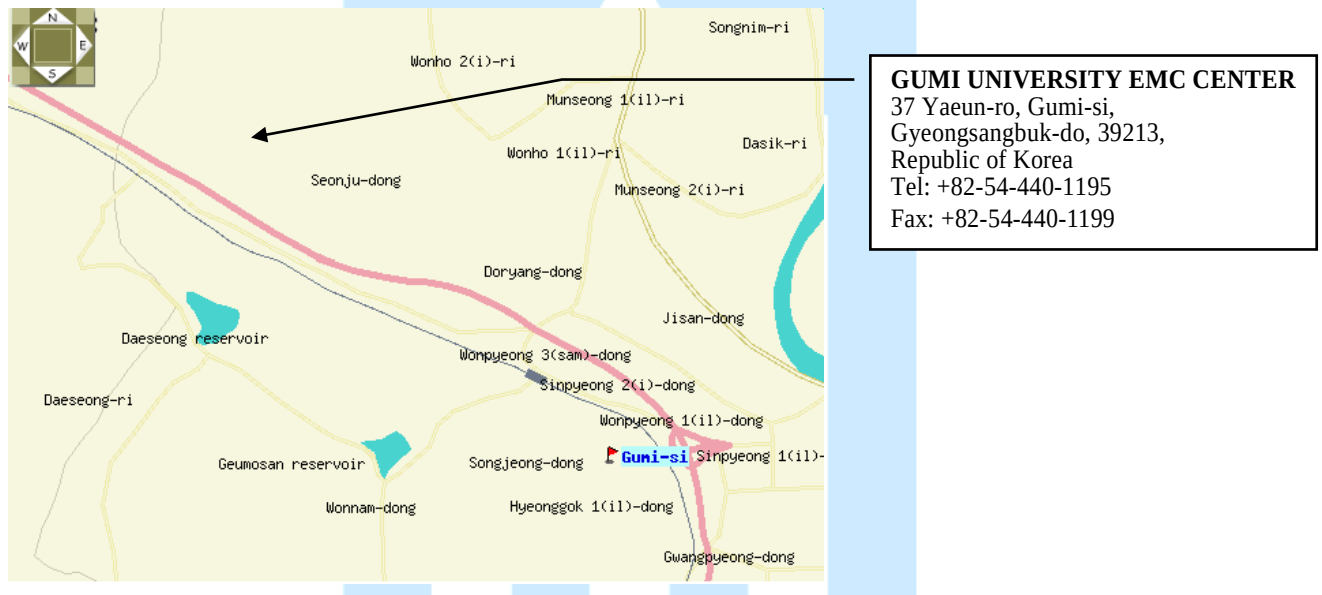


Fig 1. The map above shows the GUMI UNIVERSITY in vicinity area.



3. Product Information

3.1 Description of EUT

The Equipment under Test (EUT) is the **HOUSEHOLD COOKTOP (Model Name: SKSIT3001GE)**
FCC ID.: BEJQ40A41IB

Models		SKSIT3001GE	
Description		Induction Cooktop	
Electrical Specifications	Connection voltage	240/208 VAC 60 Hz., 39.2 A / 37.0 A	
	Maximum connected power load	9400 W / 7688 W	
Cooktop Dimensions		30 11/16" (781 mm) (W) × 4 1/8" (105 mm) (H) × 21 1/16" (534 mm) (D)	
Countertop Cutout Dimensions		Standard Installation 28 1/2" (724 mm) (W) × 5 3/4" (146 mm) (H) × 19 5/8" (498 mm) (D) Flush Installation 31" (787 mm) (W) × 6 1/16" (153 mm) (H) × 21 1/4" (540 mm) (D)	
Cooking Zones	Position	Size	Power (Level 9 / Boost)
	Front Left	8 1/2" x 7 1/8" (216.2 mm x 180.2 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)
	Rear Left	8 1/2" x 7 1/8" (216.2 mm x 180.2 mm)	1513/3026 W (208 V) 1850/3700 W (240 V)
	Flex Left	8 1/2" x 14 3/16" (216.2 mm x 360.4 mm)	2699/3026 W (208 V) 3300/3700 W (240 V)
	Center	11 1/8" / 7 1/16" (283 mm / 180 mm)	Inner Burner: 1513/3026 W (208 V) 1850/3700 W (240 V) Dual Burner: 3026/4662 W (208 V) 3700/5700 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 Front Left Hob	30 kHz	65 kHz
#2 Rear Left Hob	30 kHz	65 kHz
#3 Center	30 kHz	65 kHz
#4 Right 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-002	S/N: -, FCC ID.: BEJ-LCWB002

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

Cooking vessels

“1” , “2”= 215 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.

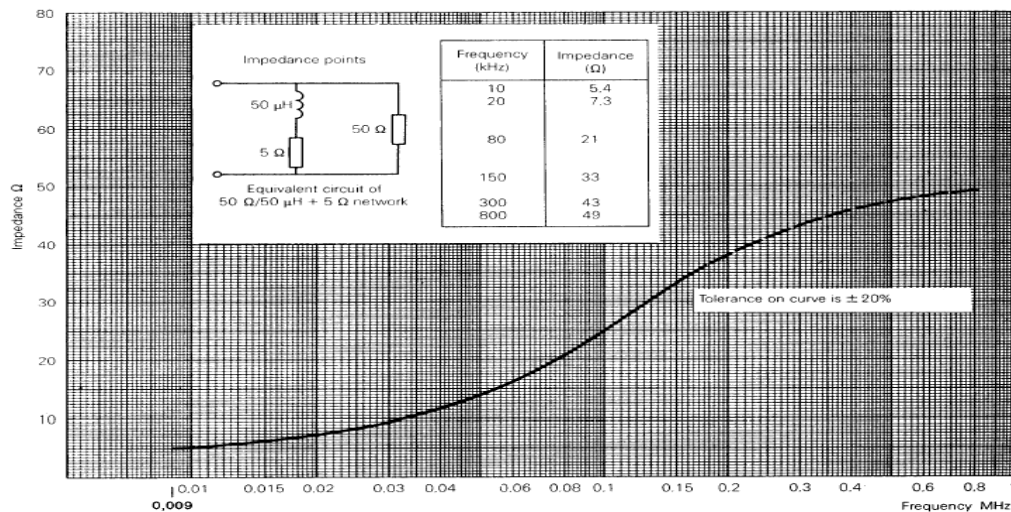


Fig 2. Impedance of LISN



6.1 Operating Environment

Temperature : 20.9 °C
Relative Humidity : 40.2 %
Air Pressure : 100.6 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)	3.69 dB	Confidence level of approximately 95 % ($k = 2$)
Conducted emission (150 kHz ~ 30 MHz)	3.32 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(dBμV/m)	
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

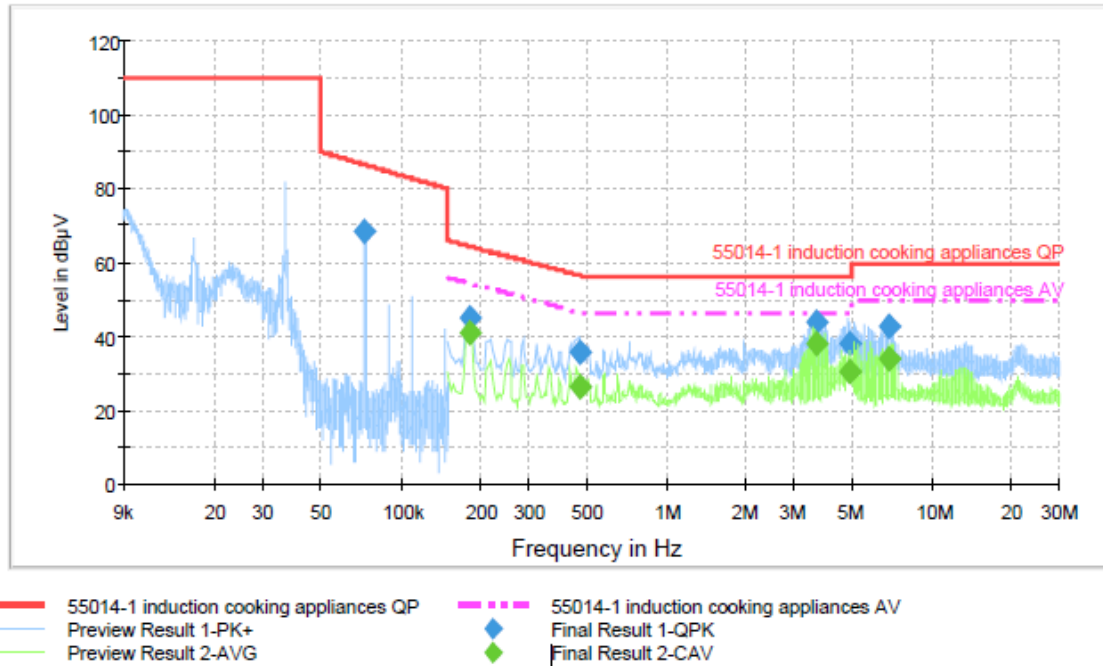
Model Name	Manufacturer	Description	Serial Number	Calibration Date
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100237	Apr. 03, 2024
□ - ENV216	Rohde & Schwarz	LISN	100173	Apr. 03, 2024
□ - ENV216	Rohde & Schwarz	LISN	100172	Apr. 03, 2024
■ - ESH2-Z5	Rohde & Schwarz	LISN	829991/009	Apr. 04, 2024
■ - VTSD 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	: May 17, 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, N: Neutral
- Comment	: None



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



Final Result 1

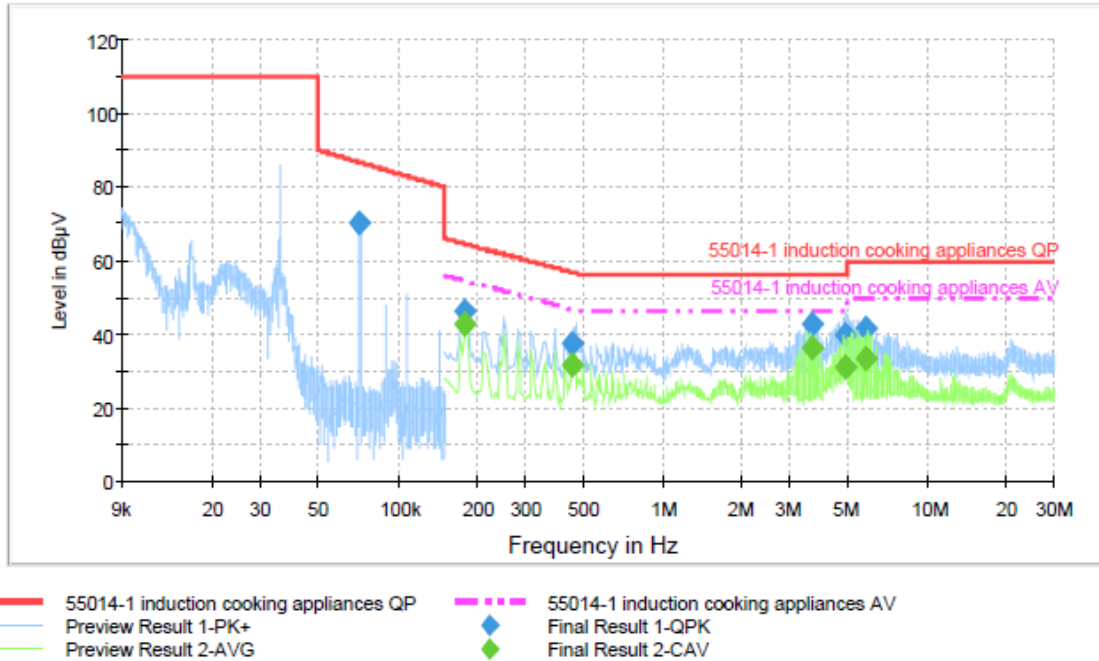
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.072102	68.4	1000.0	0.200	GND	L2	20.1	18.3	86.7	
0.182000	45.1	1000.0	9.000	GND	L1	20.7	19.3	64.4	
0.471231	35.6	1000.0	9.000	GND	L1	20.7	20.9	56.5	
3.631031	43.8	1000.0	9.000	GND	L2	20.7	12.2	56.0	
4.867181	38.0	1000.0	9.000	GND	L1	20.7	18.0	56.0	
6.892712	42.8	1000.0	9.000	GND	L2	20.7	17.2	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.182000	40.7	1000.0	9.000	GND	L1	20.7	13.7	54.4	
0.471231	26.6	1000.0	9.000	GND	L1	20.7	19.9	46.5	
3.631031	37.9	1000.0	9.000	GND	L2	20.7	8.1	46.0	
4.867181	30.5	1000.0	9.000	GND	L1	20.7	15.5	46.0	
6.892712	33.9	1000.0	9.000	GND	L2	20.7	16.1	50.0	



Cooking element #2



Final Result 1

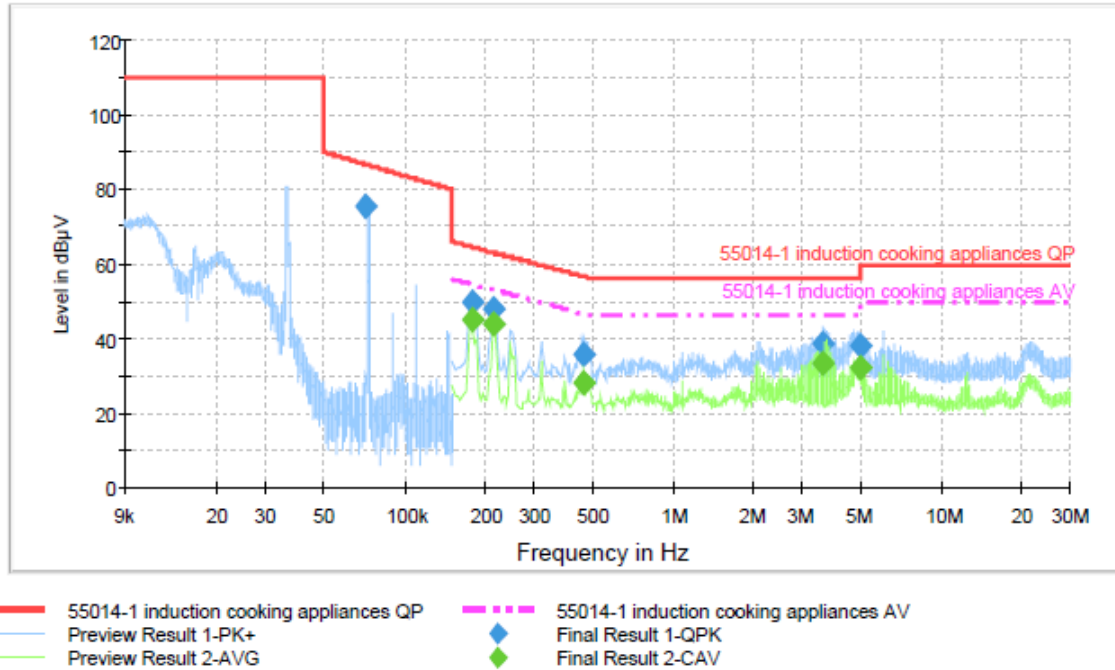
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.070674	70.0	1000.0	0.200	GND	L2	20.1	16.9	86.9	
0.179690	46.1	1000.0	9.000	GND	L2	20.6	18.4	64.5	
0.454694	37.7	1000.0	9.000	GND	L1	20.7	19.1	56.8	
3.627062	42.8	1000.0	9.000	GND	L2	20.7	13.2	56.0	
4.901806	39.6	1000.0	9.000	GND	L2	20.7	16.4	56.0	
5.890619	41.6	1000.0	9.000	GND	L1	20.8	18.4	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.179690	42.7	1000.0	9.000	GND	L2	20.6	11.8	54.5	
0.454694	31.8	1000.0	9.000	GND	L1	20.7	15.0	46.8	
3.627062	36.3	1000.0	9.000	GND	L2	20.7	9.7	46.0	
4.901806	30.9	1000.0	9.000	GND	L2	20.7	15.1	46.0	
5.890619	33.6	1000.0	9.000	GND	L1	20.8	16.4	50.0	



Cooking element #3



Final Result 1

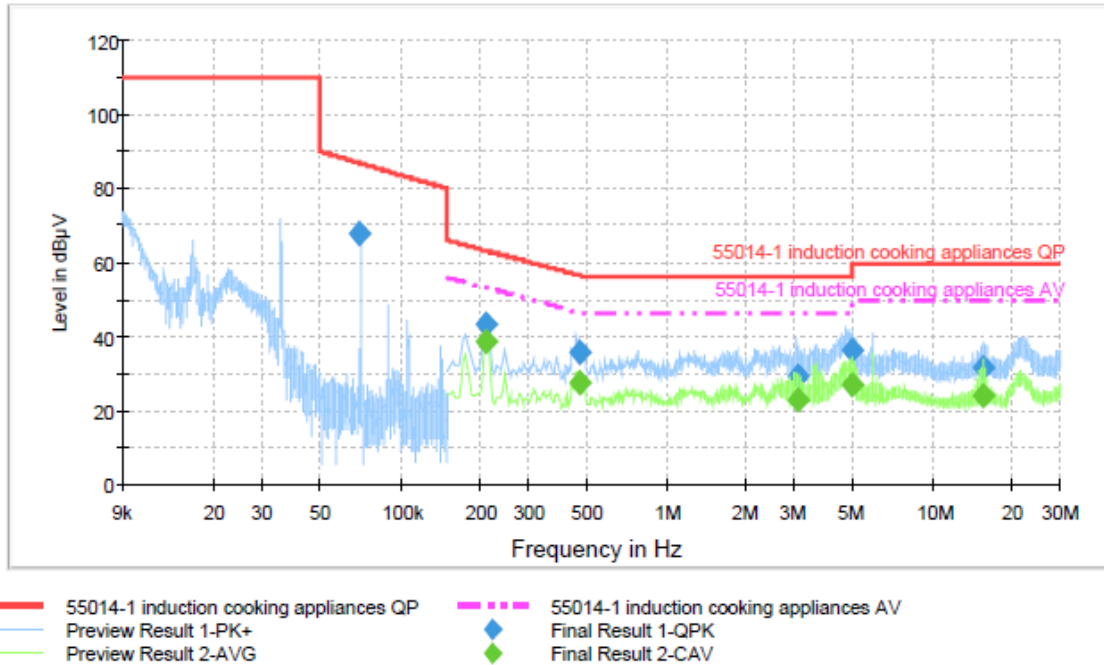
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.071626	75.4	1000.0	0.200	GND	L1	20.2	11.3	86.7	
0.178000	49.6	1000.0	9.000	GND	L1	20.6	15.0	64.6	
0.212680	48.0	1000.0	9.000	GND	L2	20.5	15.1	63.1	
0.462962	35.5	1000.0	9.000	GND	L2	20.6	21.1	56.6	
3.608675	38.9	1000.0	9.000	GND	L2	20.7	17.1	56.0	
4.930881	37.8	1000.0	9.000	GND	L2	20.7	18.2	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.178000	45.3	1000.0	9.000	GND	L1	20.6	9.3	54.6	
0.212680	43.8	1000.0	9.000	GND	L2	20.5	9.3	53.1	
0.462962	28.1	1000.0	9.000	GND	L2	20.6	18.5	46.6	
3.608675	33.7	1000.0	9.000	GND	L2	20.7	12.3	46.0	
4.930881	32.0	1000.0	9.000	GND	L2	20.7	14.0	46.0	



Cooking element #4



Final Result 1

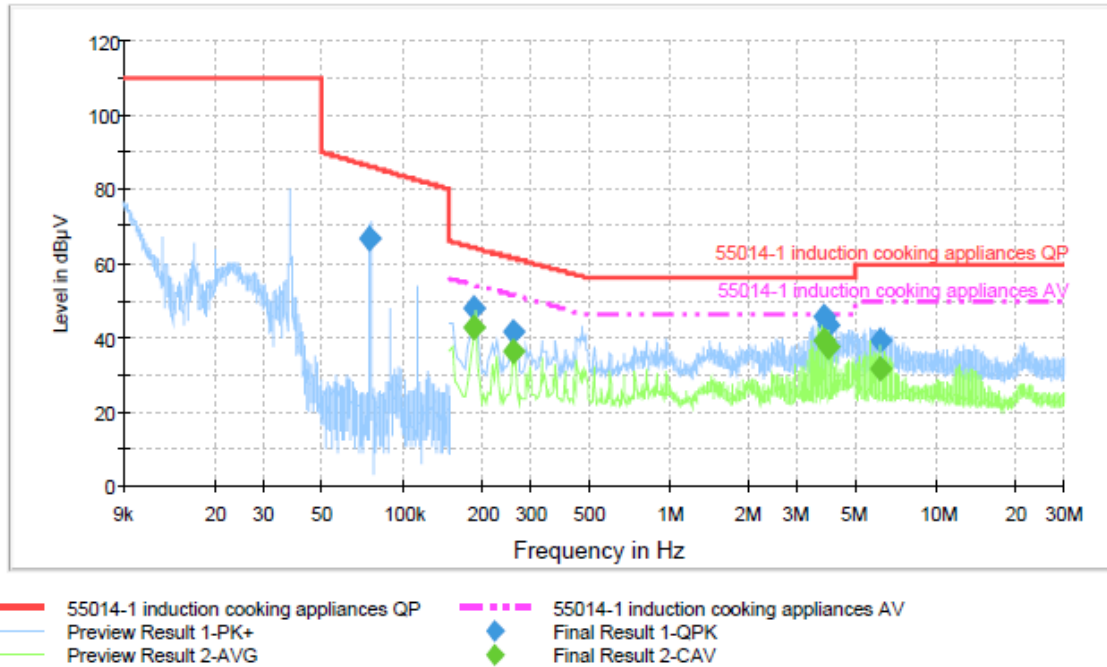
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.069828	68.0	1000.0	0.200	GND	L1	20.2	19.0	87.0	
0.208700	43.1	1000.0	9.000	GND	L1	20.7	20.2	63.3	
0.466962	35.8	1000.0	9.000	GND	L1	20.7	20.8	56.6	
3.113762	29.1	1000.0	9.000	GND	L1	20.8	26.9	56.0	
4.971119	36.4	1000.0	9.000	GND	L2	20.7	19.6	56.0	
15.297338	31.4	1000.0	9.000	GND	L2	20.9	28.6	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	38.5	1000.0	9.000	GND	L1	20.7	14.8	53.3	
0.466962	27.4	1000.0	9.000	GND	L1	20.7	19.2	46.6	
3.113762	22.9	1000.0	9.000	GND	L1	20.8	23.1	46.0	
4.971119	26.9	1000.0	9.000	GND	L2	20.7	19.1	46.0	
15.297338	23.9	1000.0	9.000	GND	L2	20.9	26.1	50.0	



AC 240 V / 60 Hz
Cooking element #1



Final Result 1

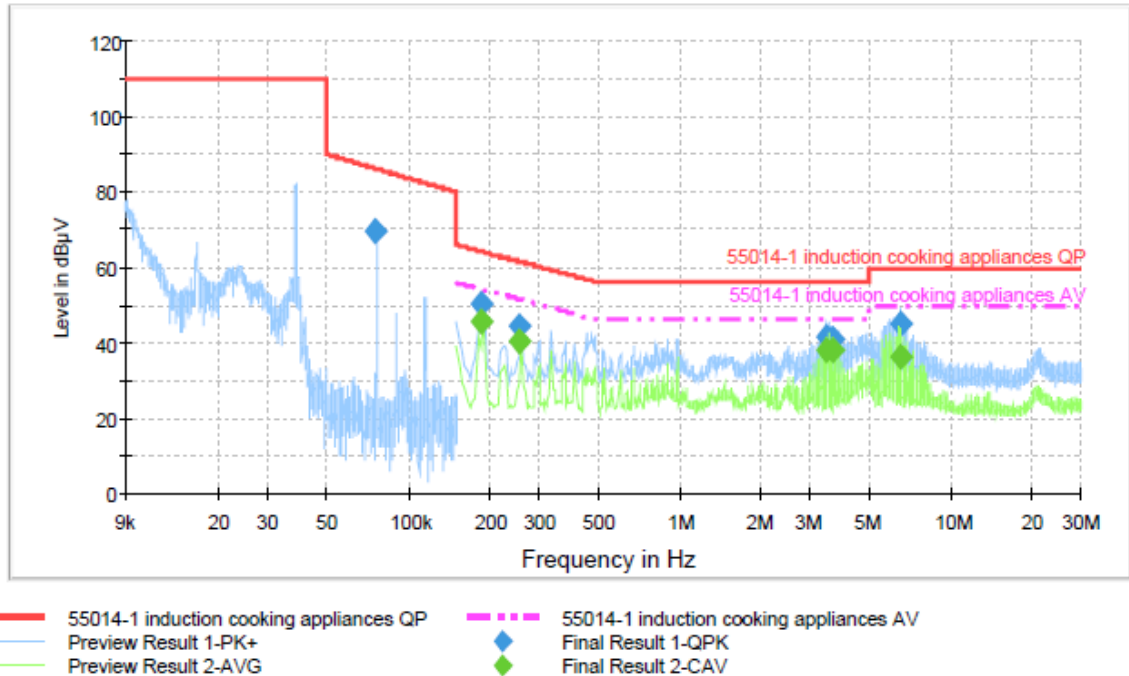
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.075063	66.9	1000.0	0.200	GND	L1	20.2	19.4	86.3	
0.186000	48.0	1000.0	9.000	GND	L2	20.6	16.2	64.2	
0.261206	41.3	1000.0	9.000	GND	L2	20.6	20.1	61.4	
3.760075	45.5	1000.0	9.000	GND	L1	20.8	10.5	56.0	
3.895950	43.2	1000.0	9.000	GND	L1	20.8	12.8	56.0	
6.149625	39.2	1000.0	9.000	GND	L1	20.8	20.8	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	42.8	1000.0	9.000	GND	L2	20.6	11.4	54.2	
0.261206	36.4	1000.0	9.000	GND	L2	20.6	15.0	51.4	
3.760075	39.4	1000.0	9.000	GND	L1	20.8	6.6	46.0	
3.895950	37.6	1000.0	9.000	GND	L1	20.8	8.4	46.0	
6.149625	31.9	1000.0	9.000	GND	L1	20.8	18.1	50.0	



Cooking element #2



Final Result 1

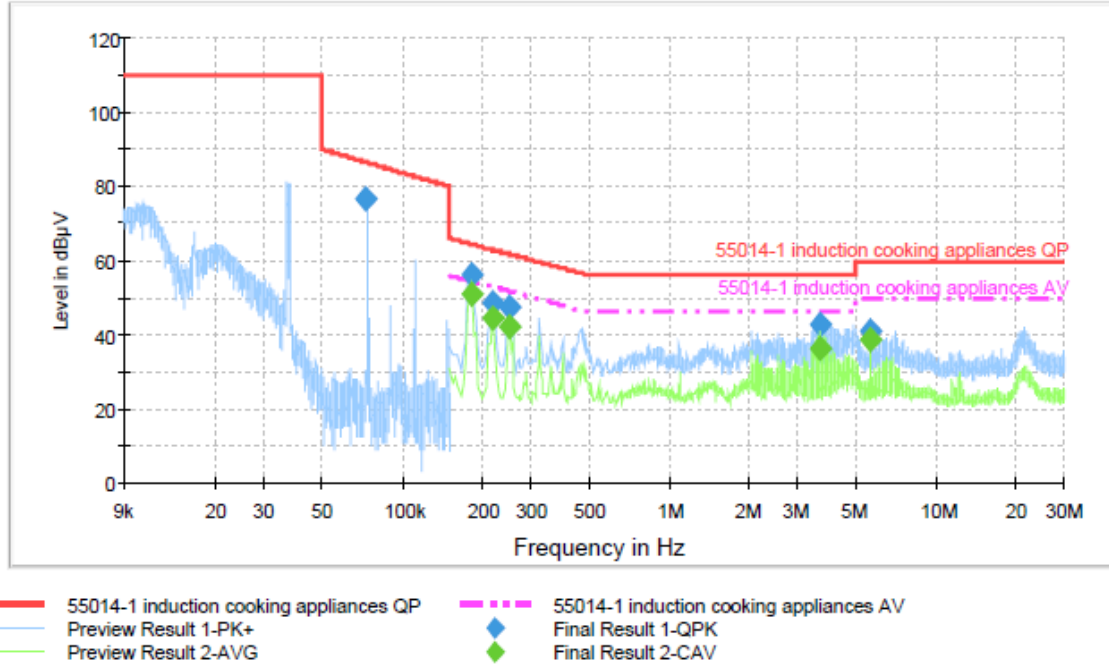
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.075591	69.7	1000.0	0.200	GND	L1	20.2	16.5	86.2	
0.186000	50.4	1000.0	9.000	GND	L2	20.5	13.8	64.2	
0.257206	44.5	1000.0	9.000	GND	L2	20.6	17.0	61.5	
3.479662	41.3	1000.0	9.000	GND	L2	20.6	14.7	56.0	
3.633181	40.7	1000.0	9.000	GND	L2	20.7	15.3	56.0	
6.471856	45.1	1000.0	9.000	GND	L2	20.7	14.9	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.186000	45.8	1000.0	9.000	GND	L2	20.5	8.4	54.2	
0.257206	40.1	1000.0	9.000	GND	L2	20.6	11.4	51.5	
3.479662	38.1	1000.0	9.000	GND	L2	20.6	7.9	46.0	
3.633181	37.8	1000.0	9.000	GND	L2	20.7	8.2	46.0	
6.471856	36.3	1000.0	9.000	GND	L2	20.7	13.7	50.0	



Cooking element #3



Final Result 1

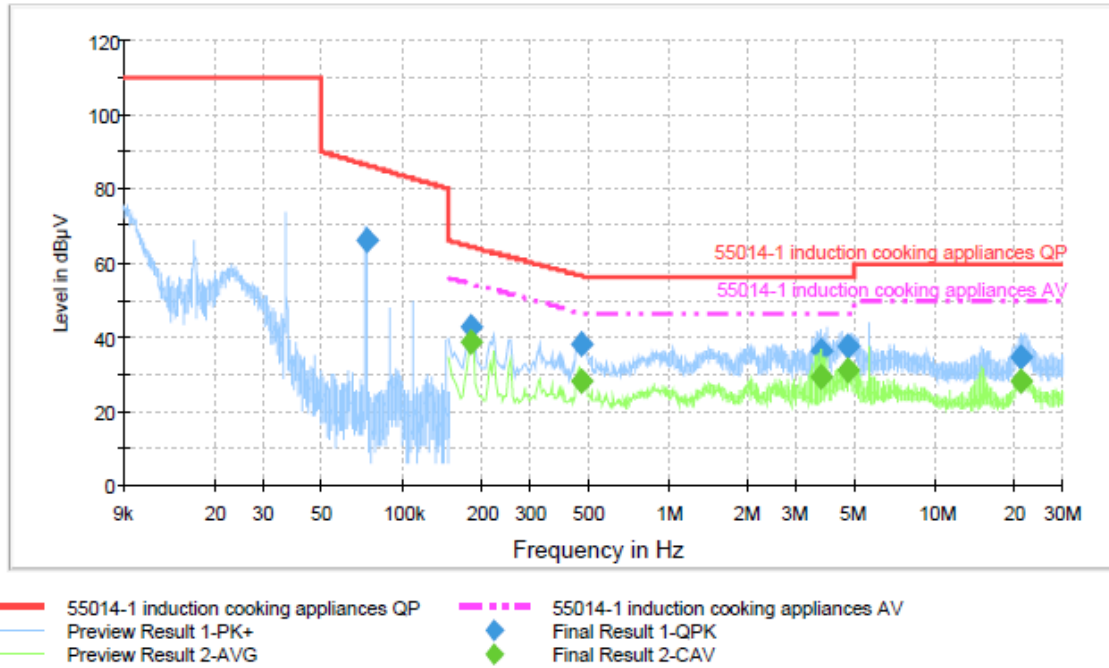
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.072542	76.4	1000.0	0.200	GND	L2	20.1	10.2	86.6	
0.180162	56.2	1000.0	9.000	GND	L2	20.6	8.3	64.5	
0.217744	48.4	1000.0	9.000	GND	L2	20.6	14.5	62.9	
0.251727	47.6	1000.0	9.000	GND	L2	20.6	14.1	61.7	
3.681450	42.7	1000.0	9.000	GND	L1	20.8	13.3	56.0	
5.663250	40.9	1000.0	9.000	GND	L1	20.8	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
0.180162	51.2	1000.0	9.000	GND	L2	20.6	3.3	54.5	
0.217744	44.4	1000.0	9.000	GND	L2	20.6	8.5	52.9	
0.251727	42.4	1000.0	9.000	GND	L2	20.6	9.3	51.7	
3.681450	36.1	1000.0	9.000	GND	L1	20.8	9.9	46.0	
5.663250	38.6	1000.0	9.000	GND	L1	20.8	11.4	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
0.074172	65.9	1000.0	0.200	GND	L1	20.2	20.5	86.4	
0.182000	42.5	1000.0	9.000	GND	L2	20.5	21.9	64.4	
0.469888	38.0	1000.0	9.000	GND	L1	20.7	18.5	56.5	
3.711000	36.3	1000.0	9.000	GND	L2	20.7	19.7	56.0	
4.669125	37.2	1000.0	9.000	GND	L2	20.7	18.8	56.0	
20.922212	34.6	1000.0	9.000	GND	L1	21.0	25.4	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.182000	38.7	1000.0	9.000	GND	L2	20.5	15.7	54.4	
0.469888	28.1	1000.0	9.000	GND	L1	20.7	18.4	46.5	
3.711000	29.4	1000.0	9.000	GND	L2	20.7	16.6	46.0	
4.669125	31.3	1000.0	9.000	GND	L2	20.7	14.7	46.0	
20.922212	28.3	1000.0	9.000	GND	L1	21.0	21.7	50.0	



7. Radiated Emission

7.1 Operating Environment

Temperature : 20.8 °C
Relative Humidity : 42.1 %
Air Pressure : 100.1 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.

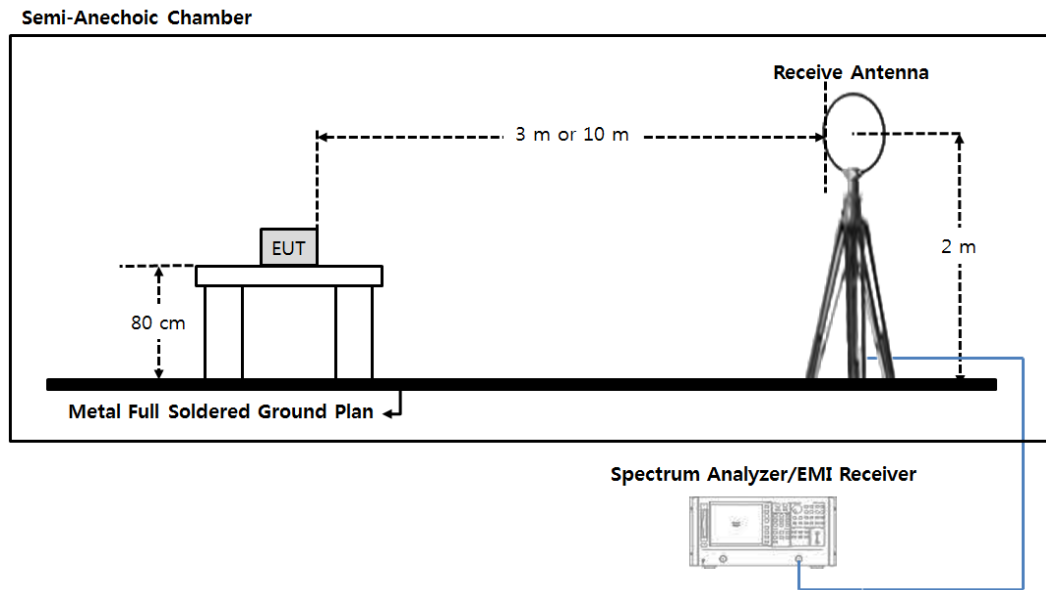


Fig 3. Configurations of Radiated emission test (9 kHz to 30 MHz)

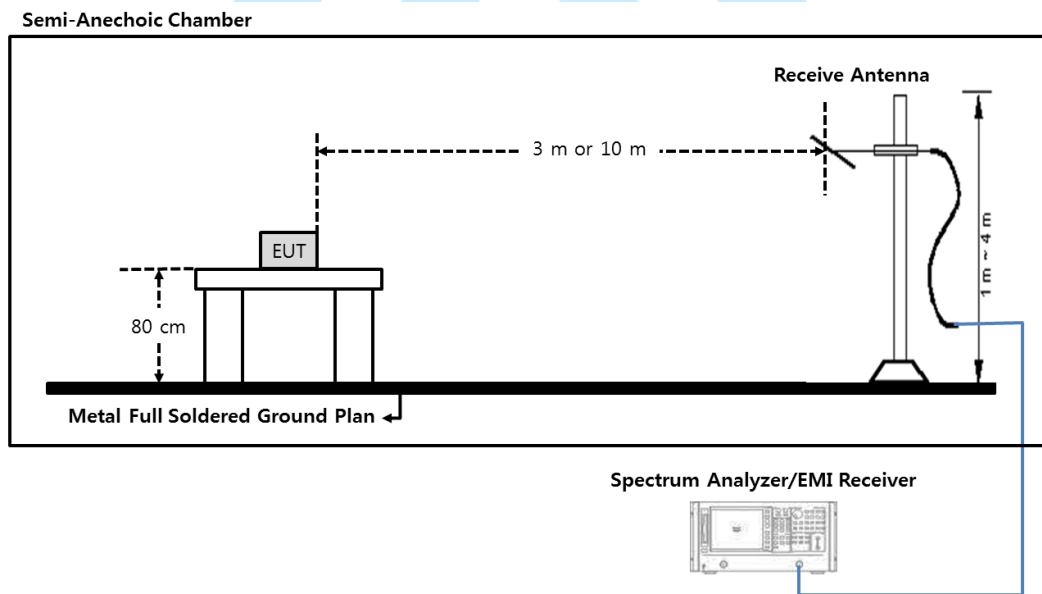


Fig 4. Configurations of Radiated emission test (30 MHz to 1 000 MHz)



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)	4.63 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)	4.88 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 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 ¹ 300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 ¹ 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
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 ³ 300
	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	⁴ 30 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.10.40.10	N/A

All test equipment used is calibrated on a regular basis.

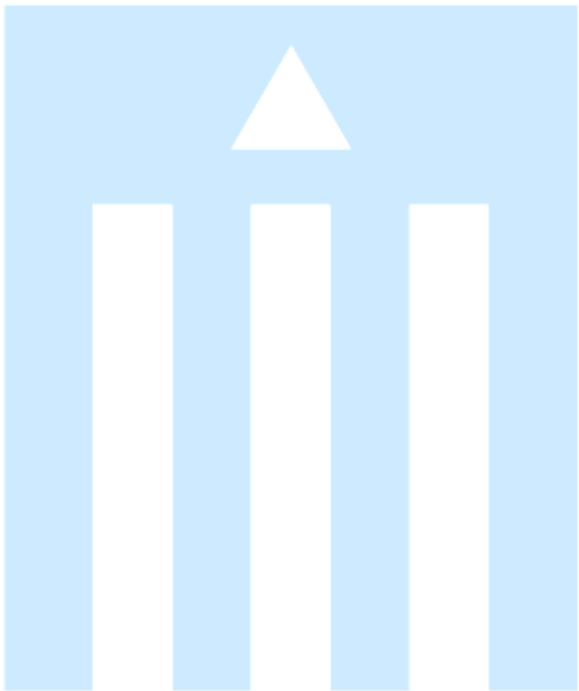


7.6 Test data for Radiated Emission

- Test Date : May 18, 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

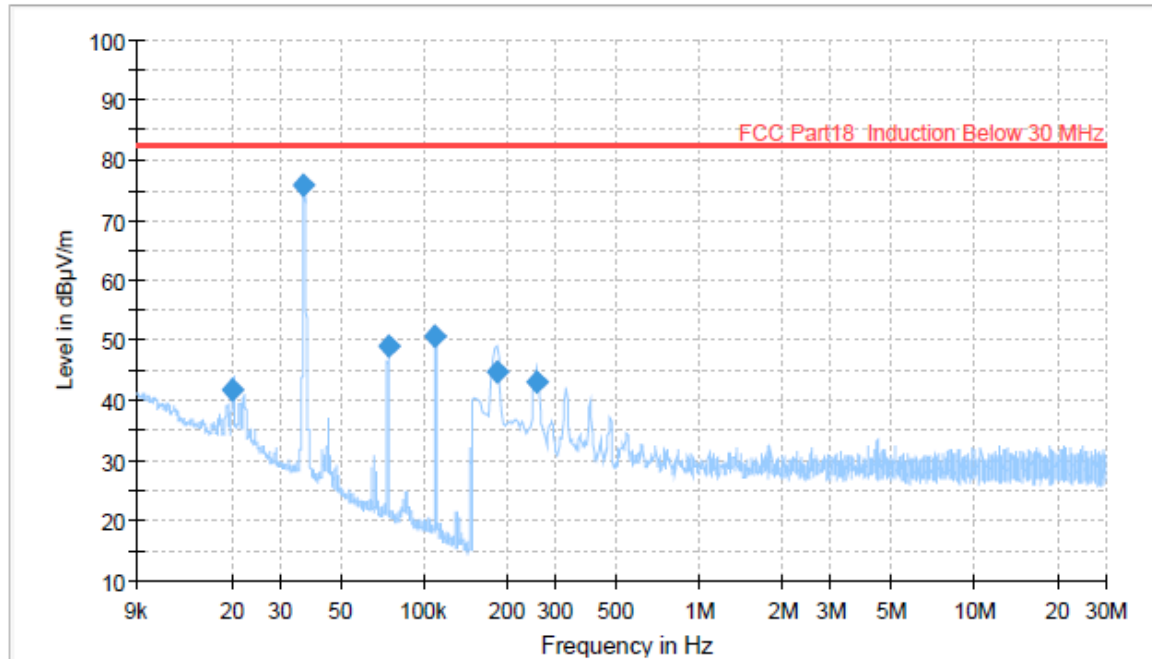
Frequency range	9 kHz ~ 150 kHz	0.15 MHz ~ 30 MHz
Detector mode	Average	Average
Resolution bandwidth	200 Hz	9 kHz





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

Cooking Element #1_H



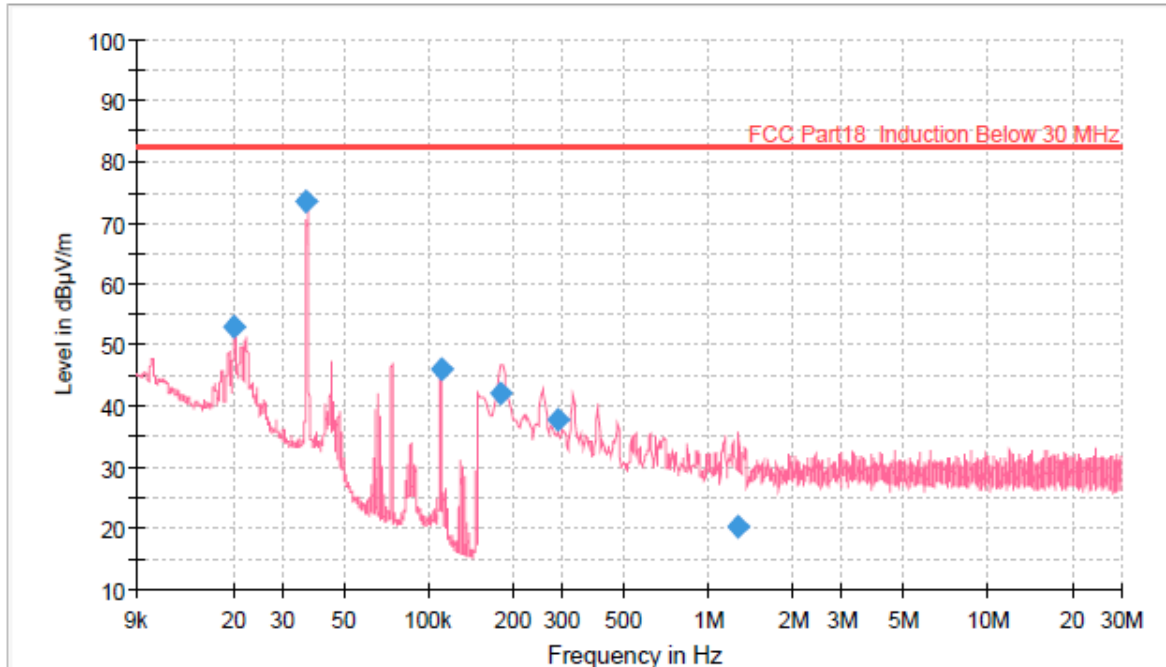
Preview Result 1H-AVG FCC Part18 Induction Below 30 MHz Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020094	41.76	82.60	40.84	1000.0	0.200	H	187.0	20.2
0.036200	75.87	82.60	6.73	1000.0	0.200	H	358.0	20.0
0.073806	49.07	82.60	33.53	1000.0	0.200	H	131.0	20.0
0.109741	50.54	82.60	32.06	1000.0	0.200	H	358.0	20.0
0.182835	44.70	82.60	37.90	1000.0	9.000	H	131.0	19.9
0.254475	43.15	82.60	39.45	1000.0	9.000	H	128.0	19.9



Cooking Element #1_V



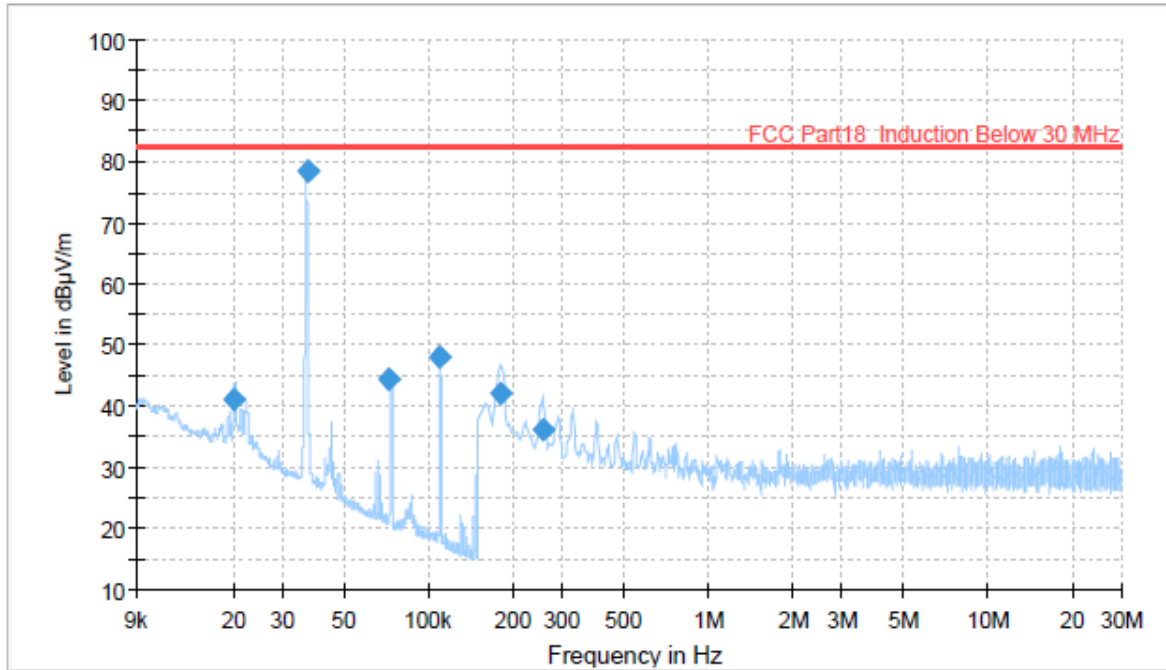
Preview Result 1V-AVG FCC Part18_Induction Below 30 MHz Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020056	52.93	82.60	29.67	1000.0	0.200	V	149.0	20.2
0.036182	73.51	82.60	9.09	1000.0	0.200	V	133.0	20.0
0.110576	46.20	82.60	36.40	1000.0	0.200	V	133.0	20.0
0.179580	42.17	82.60	40.43	1000.0	9.000	V	358.0	19.9
0.288100	37.85	82.60	44.75	1000.0	9.000	V	353.0	19.9
1.268315	20.21	82.60	62.39	1000.0	9.000	V	109.0	20.1



Cooking Element #2_H



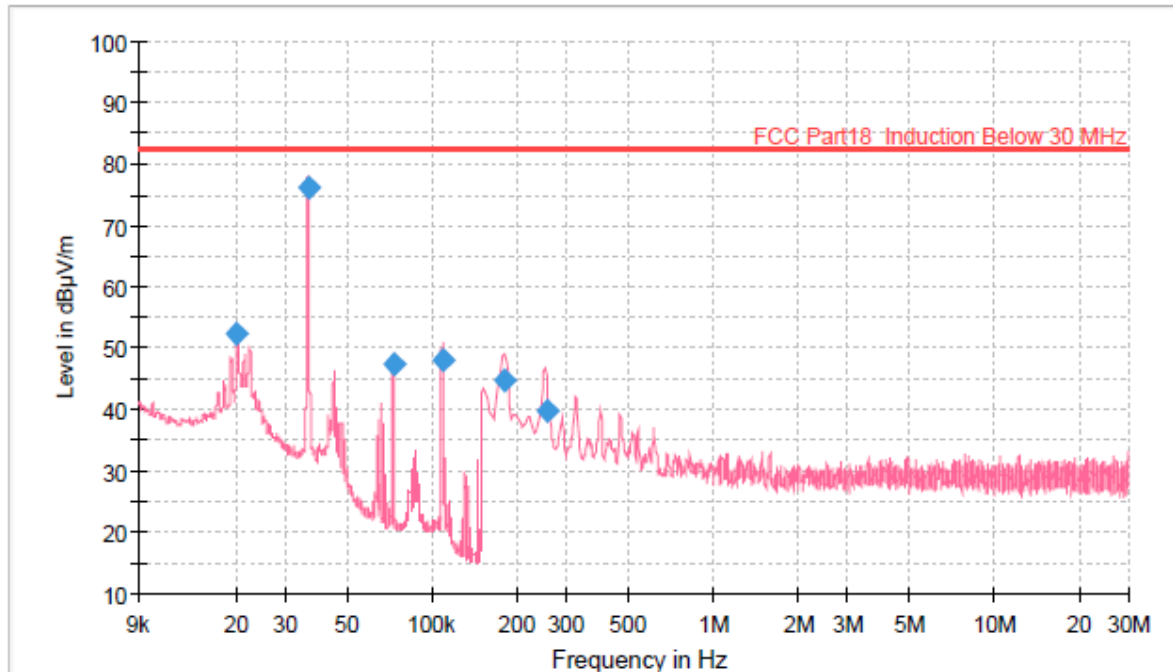
Preview Result 1H-AVG FCC Part18 Induction Below 30 MHz Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020056	41.10	82.60	41.50	1000.0	0.200	H	165.0	20.2
0.036881	78.42	82.60	4.18	1000.0	0.200	H	93.0	20.0
0.072132	44.34	82.60	38.26	1000.0	0.200	H	131.0	20.0
0.109785	48.17	82.60	34.43	1000.0	0.200	H	86.0	20.0
0.179850	42.25	82.60	40.35	1000.0	9.000	H	48.0	19.9
0.254475	36.27	82.60	46.33	1000.0	9.000	H	206.0	19.9



Cooking Element #2_V



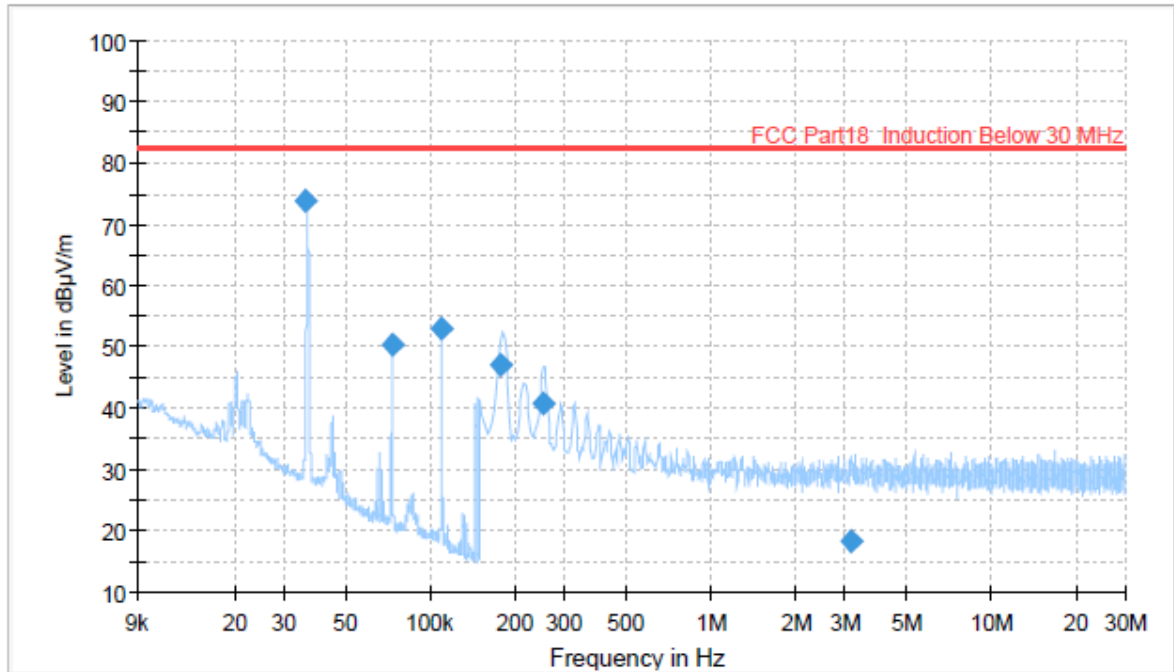
Preview Result 1V-AVG FCC Part18_Induction Below 30 MHz Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020165	52.27	82.60	30.33	1000.0	0.200	V	183.0	20.2
0.036126	76.30	82.60	6.30	1000.0	0.200	V	148.0	20.0
0.072834	47.47	82.60	35.13	1000.0	0.200	V	202.0	20.0
0.108520	48.17	82.60	34.43	1000.0	0.200	V	49.0	20.0
0.182000	44.61	82.60	37.99	1000.0	9.000	V	76.0	20.0
0.254490	39.91	82.60	42.69	1000.0	9.000	V	93.0	19.9



Cooking Element #3_H



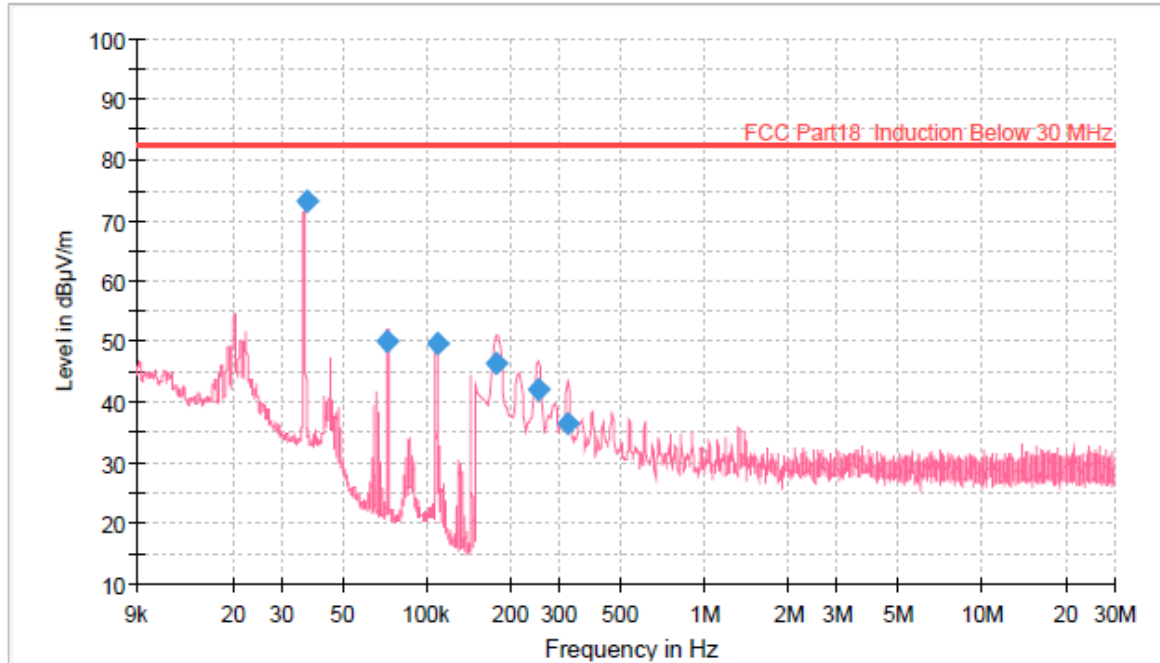
Preview Result 1H-AVG FCC Part18_Induction Below 30 MHz Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.035890	73.81	82.60	8.79	1000.0	0.200	H	129.0	20.0
0.072887	50.51	82.60	32.09	1000.0	0.200	H	311.0	20.0
0.109138	52.90	82.60	29.70	1000.0	0.200	H	114.0	20.0
0.178000	46.93	82.60	35.67	1000.0	9.000	H	114.0	20.0
0.253475	40.62	82.60	41.98	1000.0	9.000	H	105.0	19.9
3.180000	18.22	82.60	64.38	1000.0	9.000	H	255.0	20.4



Cooking Element #3_V



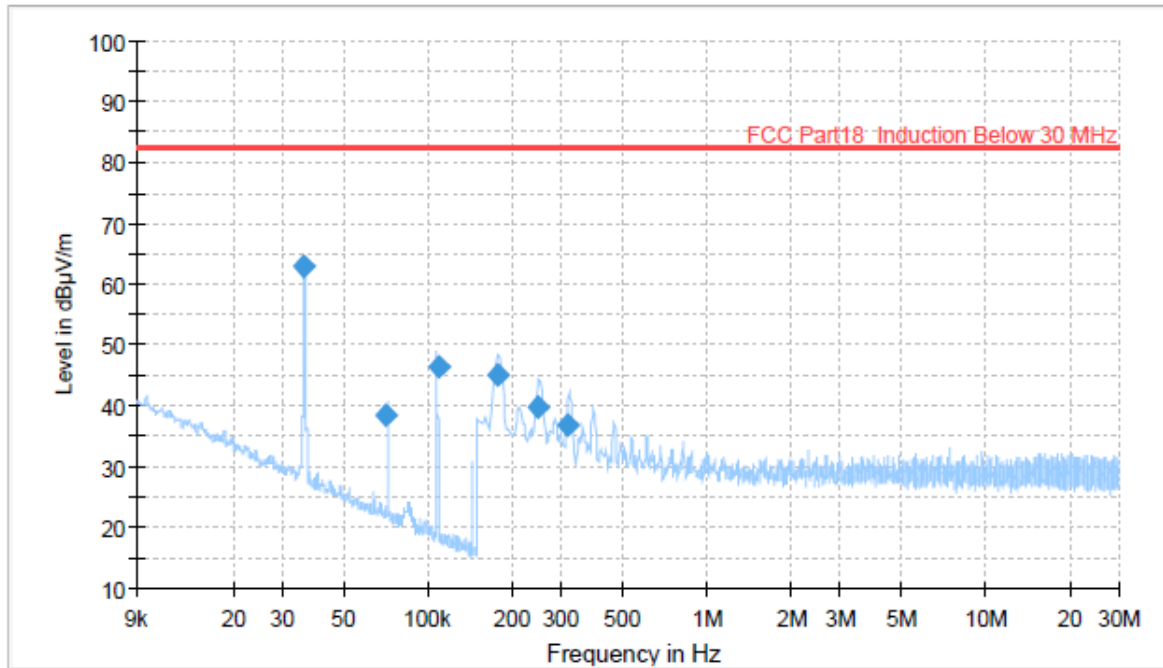
Preview Result 1V-AVG FCC Part18_Induction Below 30 MHz Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036945	73.26	82.60	9.34	1000.0	0.200	V	214.0	20.0
0.071671	50.20	82.60	32.40	1000.0	0.200	V	214.0	20.0
0.109000	49.57	82.60	33.03	1000.0	0.200	V	190.0	20.0
0.178000	46.39	82.60	36.21	1000.0	9.000	V	156.0	20.0
0.250490	42.07	82.60	40.53	1000.0	9.000	V	148.0	19.9
0.322130	36.43	82.60	46.17	1000.0	9.000	V	152.0	19.9



Cooking Element #4_H



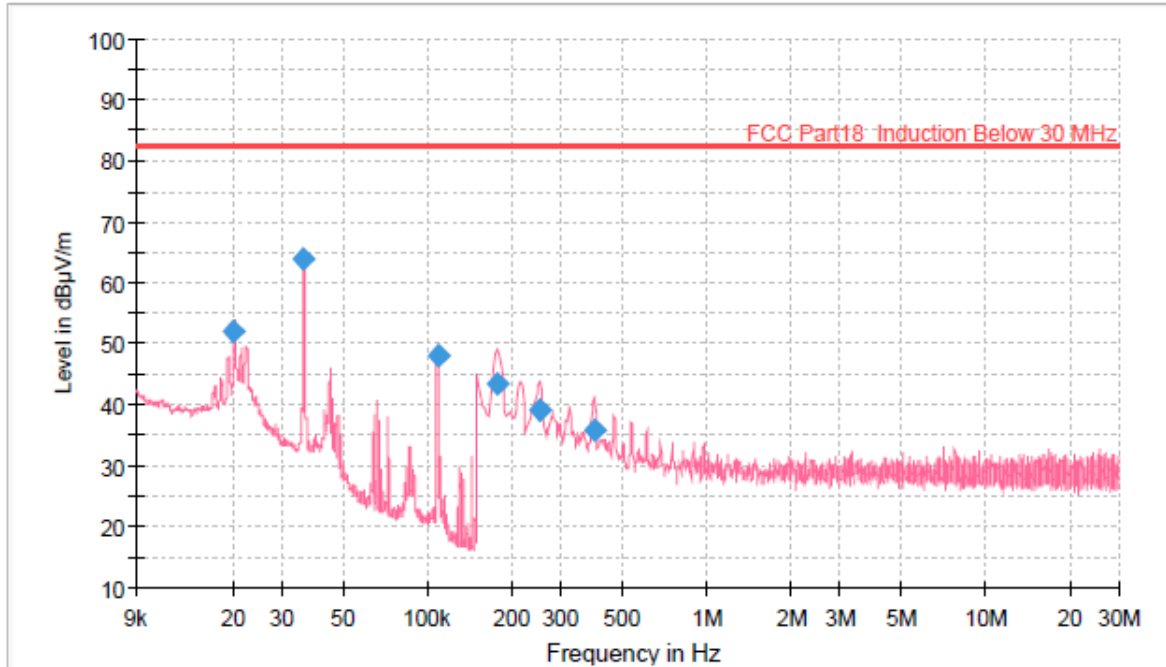
Preview Result 1H-AVG FCC Part18_Induction Below 30 MHz Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.035411	62.93	82.60	19.67	1000.0	0.200	H	336.0	20.0
0.070759	38.57	82.60	44.03	1000.0	0.200	H	299.0	20.0
0.108436	46.47	82.60	36.13	1000.0	0.200	H	124.0	20.0
0.178000	44.98	82.60	37.62	1000.0	9.000	H	96.0	20.0
0.247505	39.74	82.60	42.86	1000.0	9.000	H	87.0	19.9
0.318130	36.67	82.60	45.93	1000.0	9.000	H	96.0	19.9



Cooking Element #4_V



Preview Result 1V-AVG FCC Part18 Induction Below 30 MHz Final_Result AVG

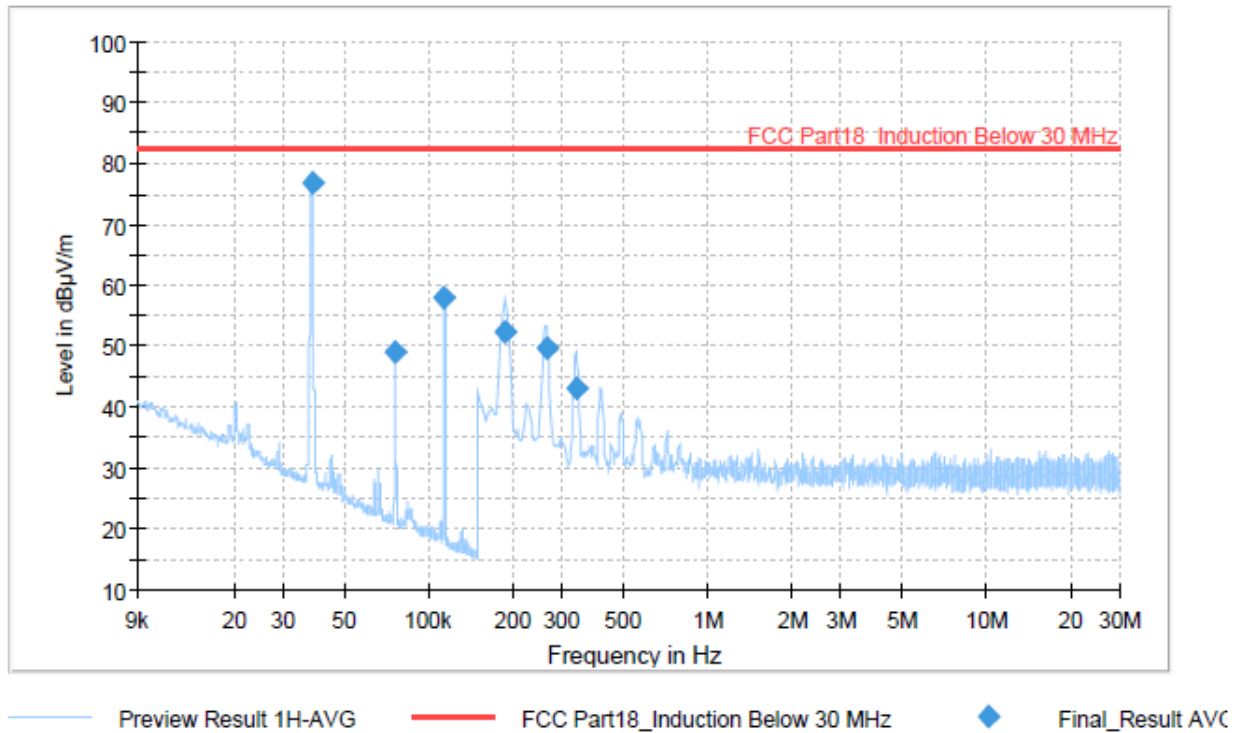
Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020193	52.16	82.60	30.44	1000.0	0.200	V	347.0	20.2
0.035918	64.02	82.60	18.58	1000.0	0.200	V	95.0	20.0
0.109306	48.10	82.60	34.50	1000.0	0.200	V	237.0	20.0
0.176865	43.56	82.60	39.04	1000.0	9.000	V	224.0	20.0
0.251490	39.12	82.60	43.48	1000.0	9.000	V	201.0	19.9
0.394770	35.78	82.60	46.82	1000.0	9.000	V	12.0	19.9



[AC 240V, 60 Hz]

Cooking Element #1_H

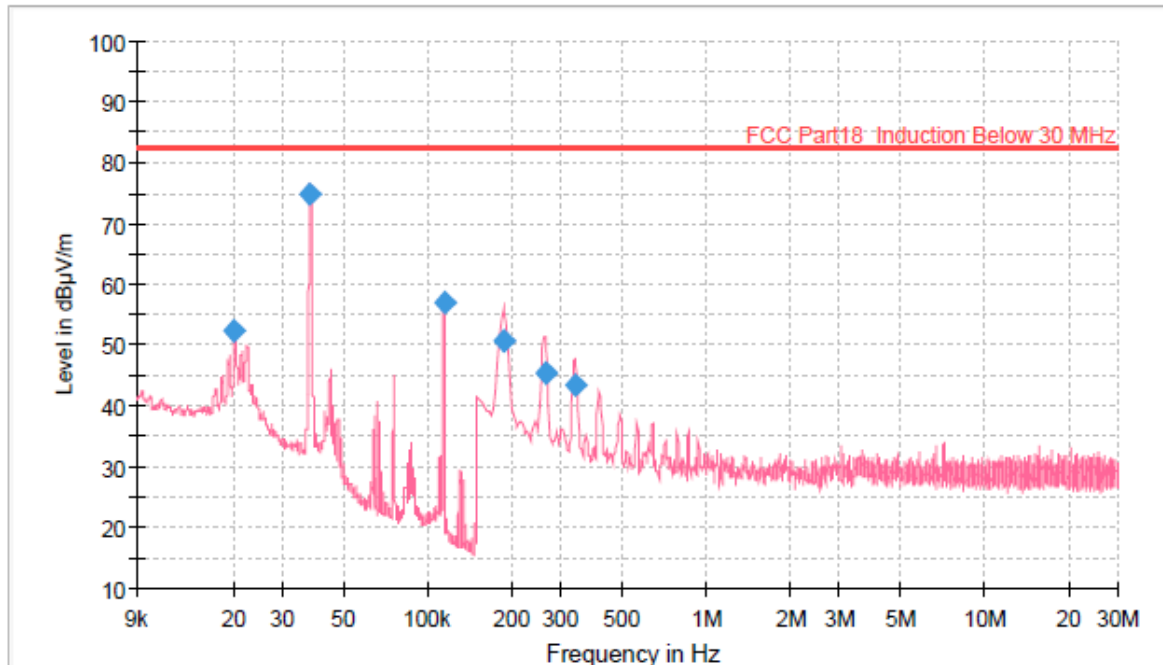


Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.038201	76.85	82.60	5.75	1000.0	0.200	H	117.0	20.0
0.075850	49.09	82.60	33.51	1000.0	0.200	H	117.0	20.0
0.113836	57.88	82.60	24.72	1000.0	0.200	H	117.0	20.0
0.186000	52.43	82.60	30.17	1000.0	9.000	H	117.0	20.0
0.263445	49.77	82.60	32.83	1000.0	9.000	H	117.0	19.9
0.337055	43.01	82.60	39.59	1000.0	9.000	H	93.0	19.9



Cooking Element #1_V



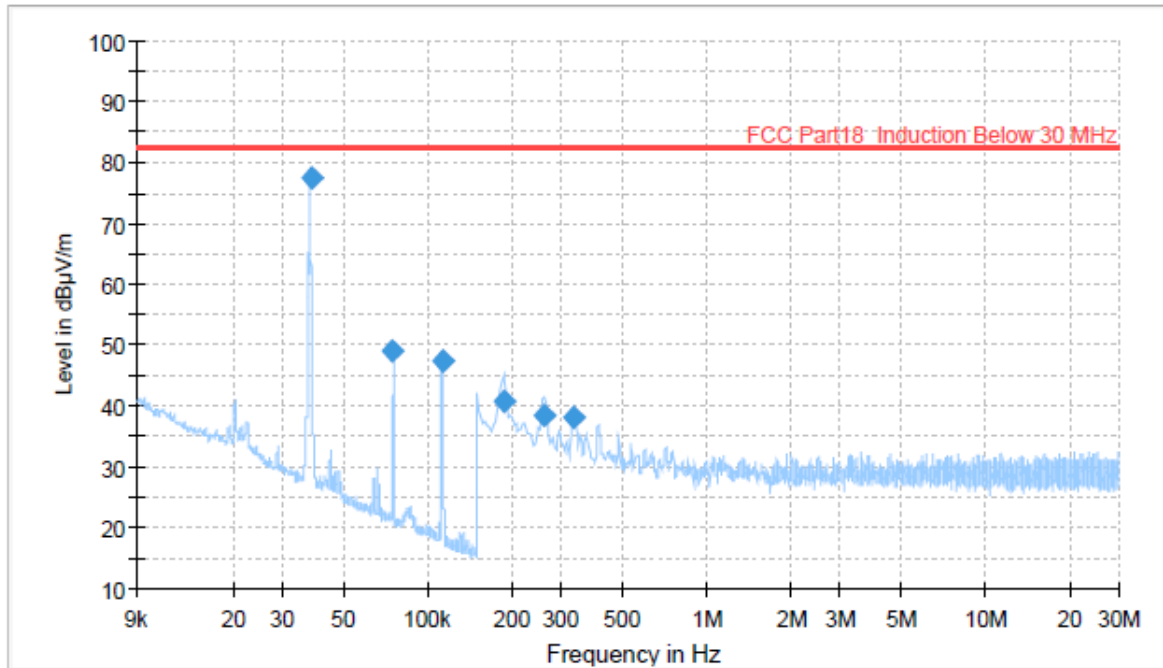
Preview Result 1V-AVG FCC Part18 Induction Below 30 MHz Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azim uth (deg)	Corr. (dB/m)
0.020193	52.29	82.60	30.31	1000.0	0.200	V	13.0	20.2
0.037687	74.75	82.60	7.85	1000.0	0.200	V	13.0	20.0
0.114805	56.86	82.60	25.74	1000.0	0.200	V	13.0	20.0
0.185820	50.74	82.60	31.86	1000.0	9.000	V	50.0	19.9
0.263430	45.38	82.60	37.22	1000.0	9.000	V	50.0	19.9
0.338055	43.41	82.60	39.19	1000.0	9.000	V	50.0	19.9



Cooking Element #2_H



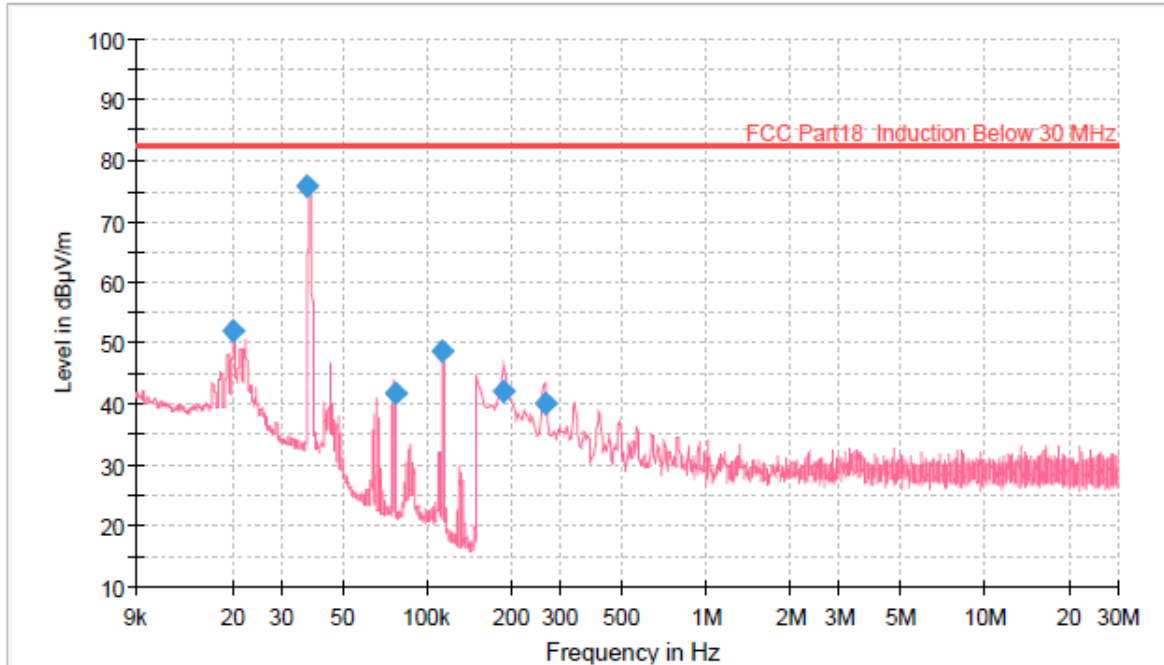
Preview Result 1H-AVG FCC Part18_Induction Below 30 MHz Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.038265	77.60	82.60	5.00	1000.0	0.200	H	102.0	20.0
0.074646	48.94	82.60	33.66	1000.0	0.200	H	102.0	20.0
0.112868	47.47	82.60	35.13	1000.0	0.200	H	136.0	20.0
0.185820	40.70	82.60	41.90	1000.0	9.000	H	77.0	19.9
0.260445	38.49	82.60	44.11	1000.0	9.000	H	77.0	19.9
0.335070	38.06	82.60	44.54	1000.0	9.000	H	82.0	19.9



Cooking Element #2_V



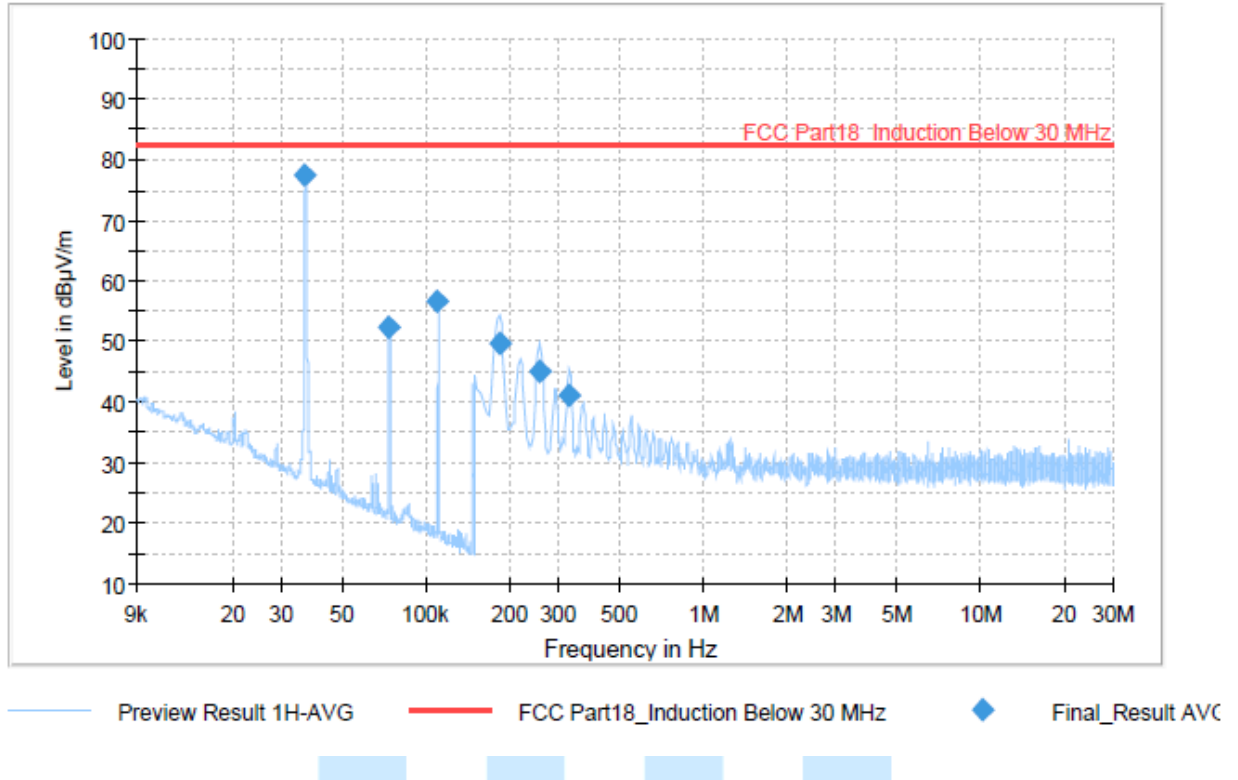
Preview Result 1V-AVG FCC Part18 Induction Below 30 MHz Final_Result AVG

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020174	51.99	82.60	30.61	1000.0	0.200	V	58.0	20.2
0.037121	75.74	82.60	6.86	1000.0	0.200	V	34.0	20.0
0.076547	41.89	82.60	40.71	1000.0	0.200	V	34.0	20.0
0.113779	48.69	82.60	33.91	1000.0	0.200	V	79.0	20.0
0.188805	42.05	82.60	40.55	1000.0	9.000	V	89.0	19.9
0.263430	40.25	82.60	42.35	1000.0	9.000	V	128.0	19.9



Cooking Element #3_H

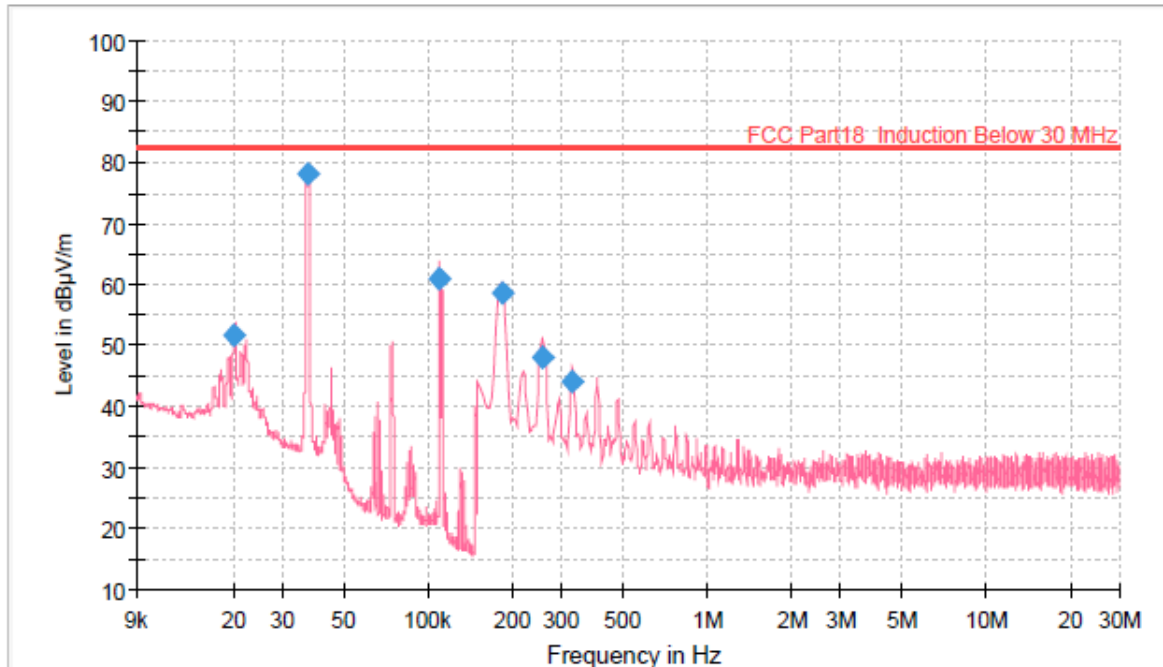


Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036608	77.55	82.60	5.05	1000.0	0.200	H	125.0	20.0
0.072870	52.43	82.60	30.17	1000.0	0.200	H	120.0	20.0
0.109666	56.74	82.60	25.86	1000.0	0.200	H	296.0	20.0
0.182835	49.70	82.60	32.90	1000.0	9.000	H	265.0	19.9
0.257460	45.15	82.60	37.45	1000.0	9.000	H	265.0	19.9
0.329100	41.19	82.60	41.41	1000.0	9.000	H	265.0	19.9



Cooking Element #3_V



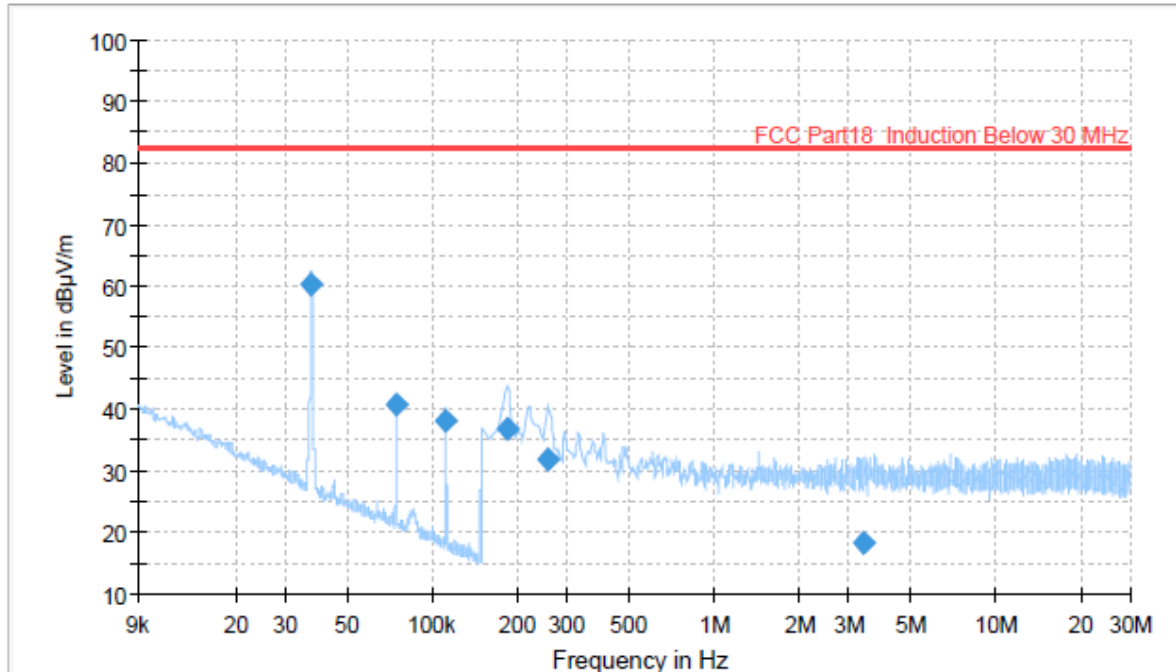
Preview Result 1V-AVG FCC Part18_Induction Below 30 MHz Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020108	51.63	82.60	30.97	1000.0	0.200	V	31.0	20.2
0.036934	78.16	82.60	4.44	1000.0	0.200	V	27.0	20.0
0.109700	60.98	82.60	21.62	1000.0	0.200	V	0.0	20.0
0.182835	58.51	82.60	24.09	1000.0	9.000	V	183.0	19.9
0.254460	48.09	82.60	34.51	1000.0	9.000	V	183.0	19.9
0.329725	44.08	82.60	38.52	1000.0	9.000	V	183.0	19.9



Cooking Element #4_H



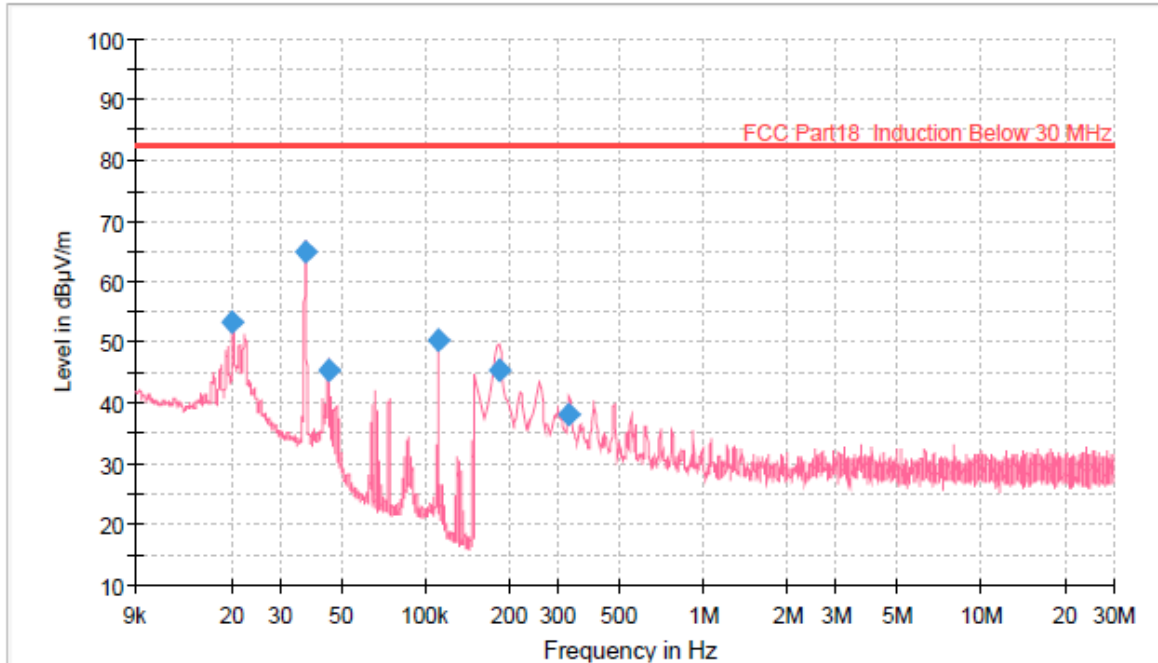
— Preview Result 1H-AVG — FCC Part18_Induction Below 30 MHz ◆ Final_Result AVC

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.037186	60.28	82.60	22.32	1000.0	0.200	H	48.0	20.0
0.074154	40.91	82.60	41.69	1000.0	0.200	H	318.0	20.0
0.111281	38.08	82.60	44.52	1000.0	0.200	H	231.0	20.0
0.182835	36.90	82.60	45.70	1000.0	9.000	H	0.0	20.0
0.257460	31.84	82.60	50.76	1000.0	9.000	H	273.0	19.9
3.365695	18.41	82.60	64.19	1000.0	9.000	H	217.0	20.4



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)
0.020122	53.35	82.60	29.25	1000.0	0.200	V	3.0	20.2
0.037198	65.04	82.60	17.56	1000.0	0.200	V	114.0	20.0
0.044746	45.52	82.60	37.08	1000.0	0.200	V	327.0	20.0
0.110696	50.39	82.60	32.21	1000.0	0.200	V	93.0	20.0
0.182835	45.26	82.60	37.34	1000.0	9.000	V	235.0	20.0
0.329100	38.23	82.60	44.37	1000.0	9.000	V	68.0	19.9



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

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





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 μV = 48 dB μV
Reading	= 39.2 dB μV
$10^{(39.2\text{dB}\mu\text{V}/20)}$	= 91.2 μV
Margin	= 48 dB μV - 39.2 dB μV = 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 μV
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 COOKTOP (Model Name: SKSIT3001GE)** was complies with §18.305 and 18.307 of the FCC Rules.

- The end -

