

1. Client

1.1 Name : LG Electronics USA

1.2 Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States

1.3 Date of Receipt : July 19, 2018

2. Use of Report : Certification**3. Test Sample :**

3.1 Product Name : HOUSEHOLD COOKTOP

3.2 Basic Model Name : HN951VA

3.3 Alt. Model Name : SKSIT3601G

4. Date of Test : July 20, 2018 ~ July 21, 2018**5. Test Method Used :**

47 CFR FCC Part 18

6. Testing Environment :

6.1 Temp. (Minimum 21.3 °C, Maximum 22.6 °C)

6.2 Humidity (Minimum 41.0 % R.H., Maximum 55.0 % R.H.)

6.3 Atmospheric Pressure : (Minimum 100.0 kPa, Maximum 100.7 kPa)

7. Test Results : Refer to Page 4.**8. Measurement Uncertainty : Refer to attachment**The confidence level is about 95 %, $k = 2$

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Affirmation	Test by	Technical Manager
	Name : Rina Bae (Signature) 	Name : Julia Choi (Signature) 

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

July 23, 2018**Accredited by KOLAS Republic of KOREA****SGS Korea Co., Ltd. Gunpo Laboratory**

4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

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Revision History

Revision	Report number	Description
0	F690501/RF-EMC003721(H)	Initial
1		- Test Laboratory address has been modified. - Used Cables have been listed. - Radiated Emission limit below 1 GHz of the each test graph has been modified.

1. General Information**1.1 Client Information**

Applicant : LG Electronics USA
Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States

Manufacturer : LG Electronics Inc.
Address : 170, Seongsanpaechong-Ro, Seongsan-Gu, Changwon-Si,
Gyeongsangnam-Do, 51533, Korea

1.2 Test Laboratory

Name and Address : SGS Korea Co., Ltd.
4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea, 15807
FCC Registration No. : KR0150
Phone : + 82 31 548 0710
Fax : + 82 31 548 0719
e-mail : Julia.Choi@sgs.com

1.3 General Information of E.U.T.

Classification	Specification	
Product Name	HOUSEHOLD COOKTOP	
Basic Model Name	HN951VA	
Alt. Model Name	SKSIT3601G	
Model Description	The alt. model – SKSIT3601G – is identical to the basic model – HN951VA – except for model name according to buyer code.	
Internal Clock Freq.	40 kHz	
Test Power	240 V~, 60 Hz	
Electrical Specifications	Connection Voltage	240 V~, 208 V~, 60 Hz, 46.3 A, 45.7 A
	Maximum Connected Power Load	11 100 W, 9 500 W
Dimensions (W*H*D)	930 mm * 108 mm * 547 mm	
Function	A electric stove using an induction coil	

1.4 Operating Modes and Conditions

Operating mode	Operating condition
1) L-R Cooking Zone Operating	A state that a pot filled with water is being heated in the Left – Rear Cooking Zone
2) L-F Cooking Zone Operating	A state that a pot filled with water is being heated in the Left – Front Cooking Zone
3) R-F Cooking Zone Operating	A state that a pot filled with water is being heated in the Right – Front Cooking Zone
4) R-R Cooking Zone Operating	A state that a pot filled with water is being heated in the Right – Rear Cooking Zone
5) Dual Cooking Zone Operating	A state that a pot filled with water is being heated in the Dual Cooking Zone

1.5 Auxiliary Equipments

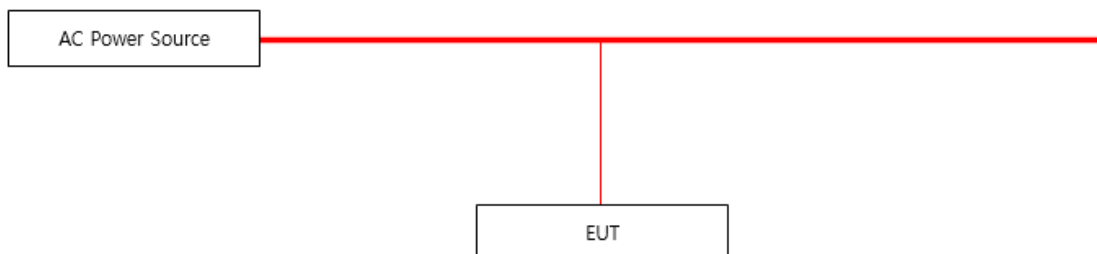
Description	Model	Serial No.	Manufacturer
-	-	-	-

1.6 Cable List

Start		END		Cable Spec.		Used core
Name	I/O Port	Name	I/O Port	Length	Shield	
EUT	AC IN	AC Power Source	-	1.5	Unshield	No

1.7 System Configurations

Description	Model	Serial No.	Manufacturer
Buzzer PCB	EAX61768202 Ver.1	-	-
EMI Filter PCB	EAX68172301-D	-	LG Electronics Inc.
Interface PCB	EAX68029301-F	-	LG Electronics Inc.
Inverter 2IH PCB	EAX68084801-E	-	LG Electronics Inc.
Inverter 4IH PCB	EAX68045801-G	-	LG Electronics Inc.
Power Key PCB	CLAS IKEY TOUCH LED	-	-
SMPS PCB	EAX68028301-E	-	LG Electronics Inc.
TFT LCD PCB	EAX68182501-B	-	LG Electronics Inc.
Wifi Module	LCW-009	-	-

1.8 Test System Layout**1.9 Modifications**

- There was no modified item during the test.

1.10 Applicable Standards for Testing

Standards	Status	Deviation
47 CFR FCC Part 18	Applicable	No Deviation

1.11 Summary of Test Results

Test Item	Standards	Results
Conducted Emission	FCC Part 18 Subpart C Section 18.307	Complied
Radiated Emission	FCC Part 18 Subpart C Section 18.305	Complied

Note : Test methods of all test items are performed according to the basic standards in this table.

EMISSION

2.1 Test Results

Test Items	Standards	Test Results
Conducted Emission	FCC Part 18 Subpart C Section 18.307	Complied
Radiated Emission	FCC Part 18 Subpart C Section 18.305	Complied

2.2 Test Method and Limits

2.2.1 Test Method

Test Items	Measuring Frequency Range	RBW	Measuring Distance
Conducted Emission	9 kHz ~ 30 MHz	200 Hz & 9 kHz	-
Radiated Emission	9 kHz ~ 30 MHz	200 Hz & 9 kHz	10 m

2.2.2 Test Limits

-Conducted Emission Limits

Frequency Range	Limits(dB μ V)	
	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 to 56*	56 to 46*
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

*Decreases with the logarithm of the frequency.

- Radiated Emission Limits below 1 GHz

Frequency Range	Limits(dB μ V/m)
	Average
9 MHz ~ 30 MHz	82.6

* Since the operating frequency is 40 kHz, it was tested up to 30 MHz.

2.3 Conducted Emission

The initial preliminary exploratory scans were performed over the measuring frequency range (9 kHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the software of EMC32 (Version V8.53 from R&S). The final test data was measured using a Quasi-Peak detector and an Average detector.

2.3.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESU8	R&S	100128	2019.05.21
2-LINE V-NETWORK	ENV216	R&S	100415	2019.06.15
PULSE LIMITER	ESH3-Z2	R&S	100850	2019.04.12
RF Cable	-	-	EMH-2Lab-CE-01	2018.11.14
Shield Room	-	SY CORPORATION	-	-

2.3.2 Test Site

Shield Room in Giheung 2 Laboratory

2.3.3 Environment Conditions

Temperature : (minimum 21.3, maximum 22.6) °C

Humidity : (minimum 51.0, maximum 55.0) %R.H.

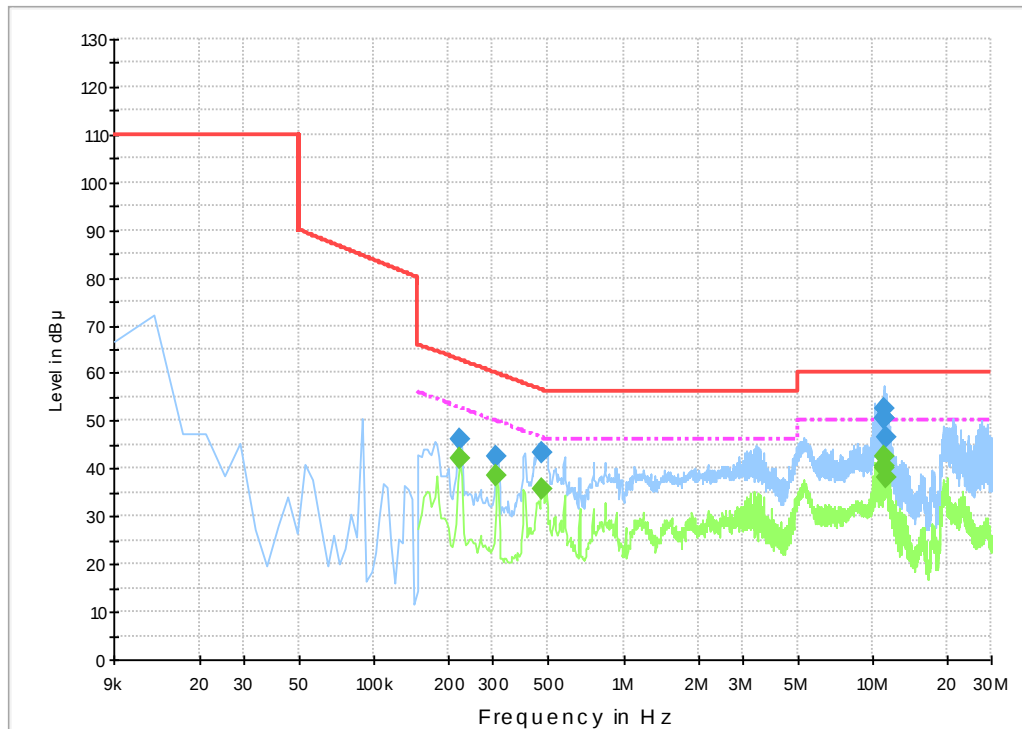
Atmospheric Pressure : (minimum 100.0, maximum 100.0) kPa

Test Date : July 20, 2018

2.3.4 Test Results

- L-R Cooking Zone Operating mode

LISN ENV216 (9kHz-30MHz)_L1



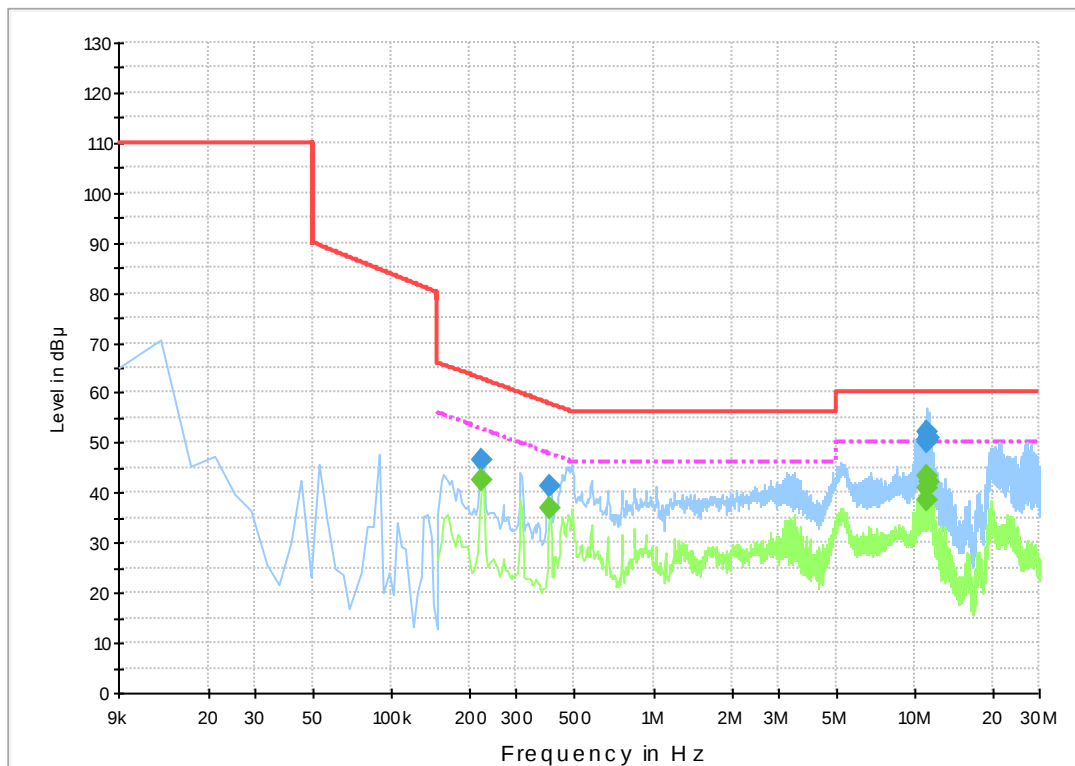
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222 000	46.1	15 000.0	9.000	Off	L1	19.5	16.6	62.7
0.310 000	42.6	15 000.0	9.000	Off	L1	19.5	17.4	60.0
0.474 000	43.4	15 000.0	9.000	Off	L1	19.5	13.0	56.4
11.110 000	50.5	15 000.0	9.000	Off	L1	19.7	9.5	60.0
11.110 000	50.4	15 000.0	9.000	Off	L1	19.7	9.6	60.0
11.210 000	52.6	15 000.0	9.000	Off	L1	19.7	7.4	60.0
11.278 000	46.6	15 000.0	9.000	Off	L1	19.7	13.4	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222 000	46.1	15 000.0	9.000	Off	L1	19.5	16.6	62.7
0.310 000	42.6	15 000.0	9.000	Off	L1	19.5	17.4	60.0
0.474 000	43.4	15 000.0	9.000	Off	L1	19.5	13.0	56.4
11.110 000	50.5	15 000.0	9.000	Off	L1	19.7	9.5	60.0
11.110 000	50.4	15 000.0	9.000	Off	L1	19.7	9.6	60.0
11.210 000	52.6	15 000.0	9.000	Off	L1	19.7	7.4	60.0
11.278 000	46.6	15 000.0	9.000	Off	L1	19.7	13.4	60.0

LISN ENV216 (9kHz-30MHz)_N



Final Result 1

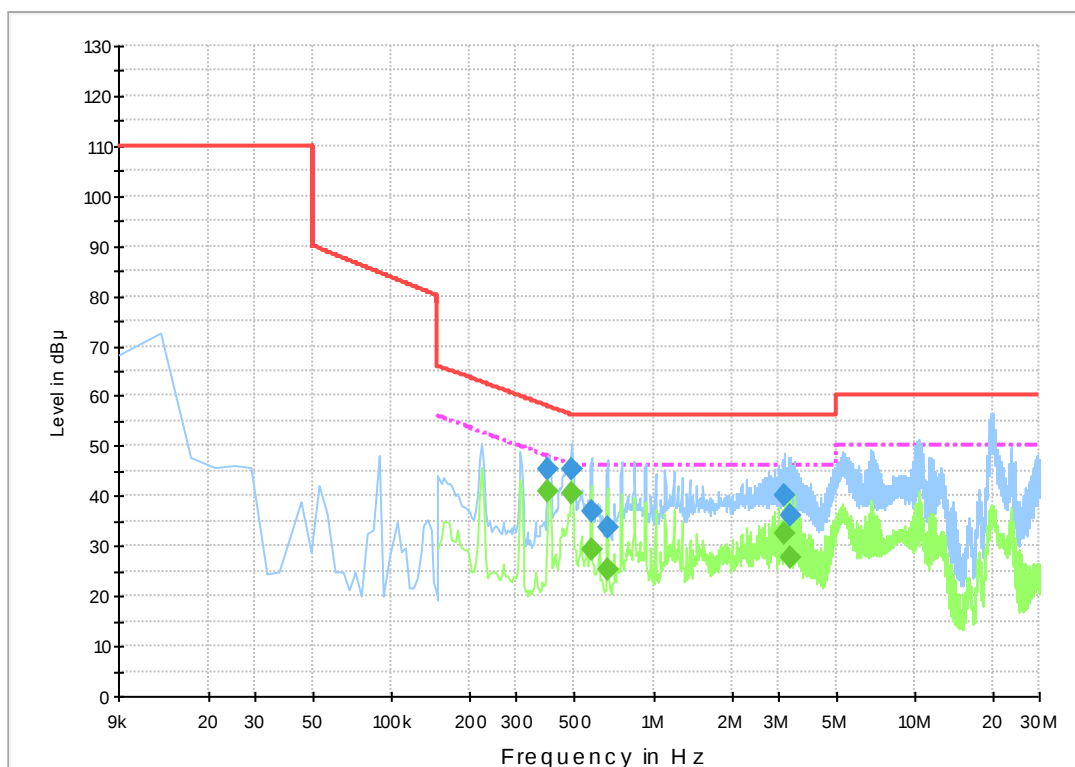
Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222 000	46.6	15 000.0	9.000	Off	N	19.5	16.1	62.7
0.402 000	41.3	15 000.0	9.000	Off	N	19.5	16.5	57.8
11.058 000	52.2	15 000.0	9.000	Off	N	19.7	7.8	60.0
11.134 000	50.2	15 000.0	9.000	Off	N	19.7	9.8	60.0
11.210 000	50.6	15 000.0	9.000	Off	N	19.7	9.4	60.0
11.358 000	51.0	15 000.0	9.000	Off	N	19.7	9.0	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222 000	42.6	15 000.0	9.000	Off	N	19.5	10.1	52.7
0.402 000	37.1	15 000.0	9.000	Off	N	19.5	10.7	47.8
11.058 000	43.5	15 000.0	9.000	Off	N	19.7	6.5	50.0
11.134 000	38.6	15 000.0	9.000	Off	N	19.7	11.4	50.0
11.210 000	41.1	15 000.0	9.000	Off	N	19.7	8.9	50.0
11.358 000	42.1	15 000.0	9.000	Off	N	19.7	7.9	50.0

- L-F Cooking Zone Operating mode

LISN ENV216 (9kHz-30MHz)_L1



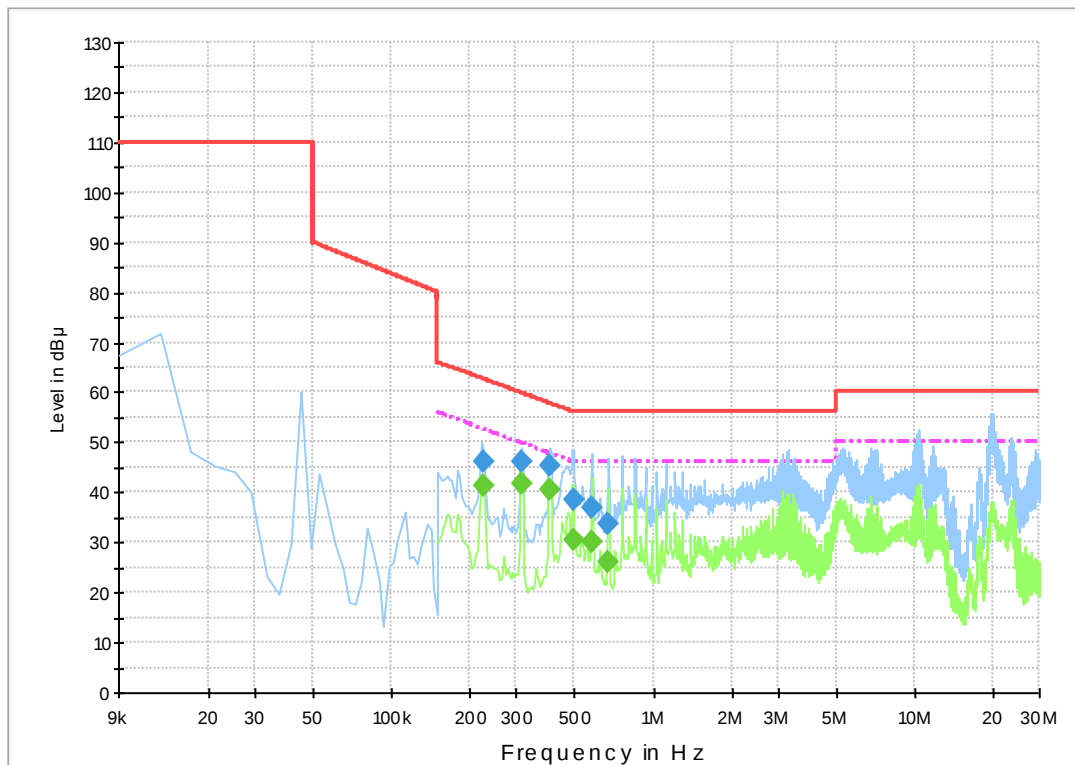
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.398 000	45.3	15 000.0	9.000	Off	L1	19.5	12.6	57.9
0.486 000	45.4	15 000.0	9.000	Off	L1	19.5	10.8	56.2
0.582 000	36.8	15 000.0	9.000	Off	L1	19.5	19.2	56.0
0.670 000	33.8	15 000.0	9.000	Off	L1	19.5	22.2	56.0
3.194 000	39.9	15 000.0	9.000	Off	L1	19.5	16.1	56.0
3.362 000	36.3	15 000.0	9.000	Off	L1	19.5	19.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.398 000	40.9	15 000.0	9.000	Off	L1	19.5	7.0	47.9
0.486 000	40.4	15 000.0	9.000	Off	L1	19.5	5.8	46.2
0.582 000	29.4	15 000.0	9.000	Off	L1	19.5	16.6	46.0
0.670 000	25.1	15 000.0	9.000	Off	L1	19.5	20.9	46.0
3.194 000	32.6	15 000.0	9.000	Off	L1	19.5	13.4	46.0
3.362 000	27.7	15 000.0	9.000	Off	L1	19.5	18.3	46.0

LISN ENV216 (9kHz-30MHz)_N



Final Result 1

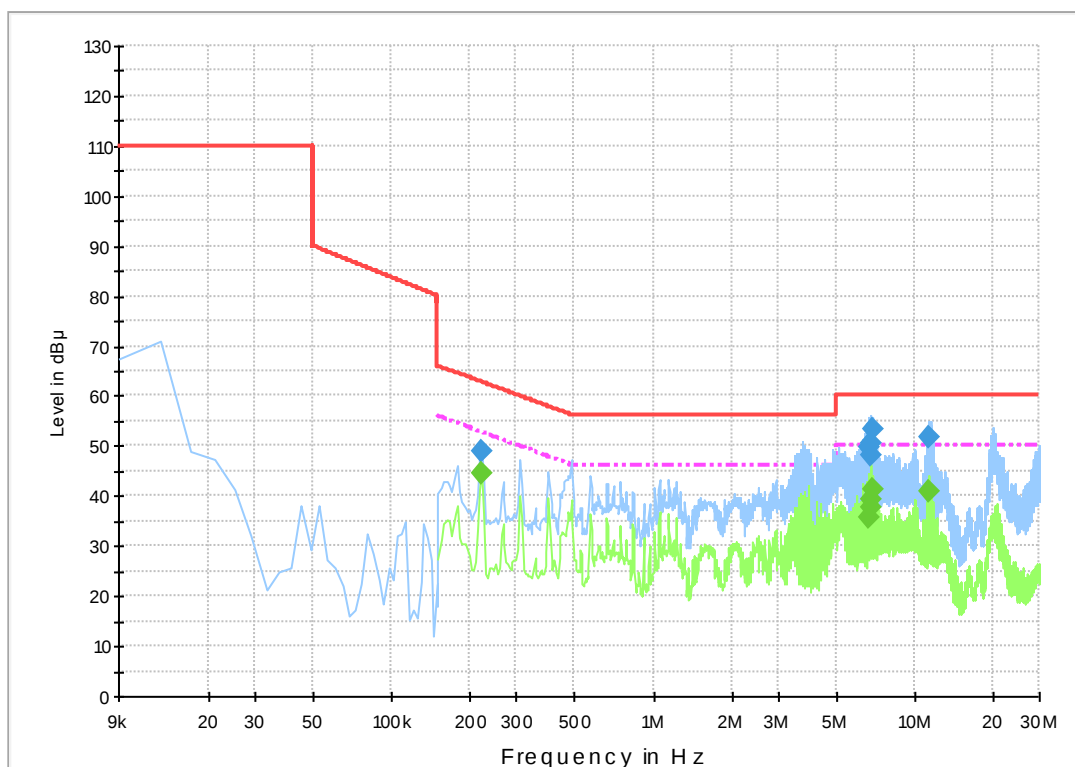
Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.226 000	46.1	15 000.0	9.000	Off	N	19.5	16.5	62.6
0.314 000	46.2	15 000.0	9.000	Off	N	19.5	13.7	59.9
0.402 000	45.3	15 000.0	9.000	Off	N	19.5	12.5	57.8
0.498 000	38.5	15 000.0	9.000	Off	N	19.5	17.5	56.0
0.582 000	36.8	15 000.0	9.000	Off	N	19.5	19.2	56.0
0.670 000	33.9	15 000.0	9.000	Off	N	19.5	22.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.226 000	41.3	15 000.0	9.000	Off	N	19.5	11.3	52.6
0.314 000	41.6	15 000.0	9.000	Off	N	19.5	8.3	49.9
0.402 000	40.4	15 000.0	9.000	Off	N	19.5	7.4	47.8
0.498 000	30.3	15 000.0	9.000	Off	N	19.5	15.7	46.0
0.582 000	30.0	15 000.0	9.000	Off	N	19.5	16.0	46.0
0.670 000	26.1	15 000.0	9.000	Off	N	19.5	19.9	46.0

- R-F Cooking Zone Operating mode

LISN ENV216 (9kHz-30MHz)_L1



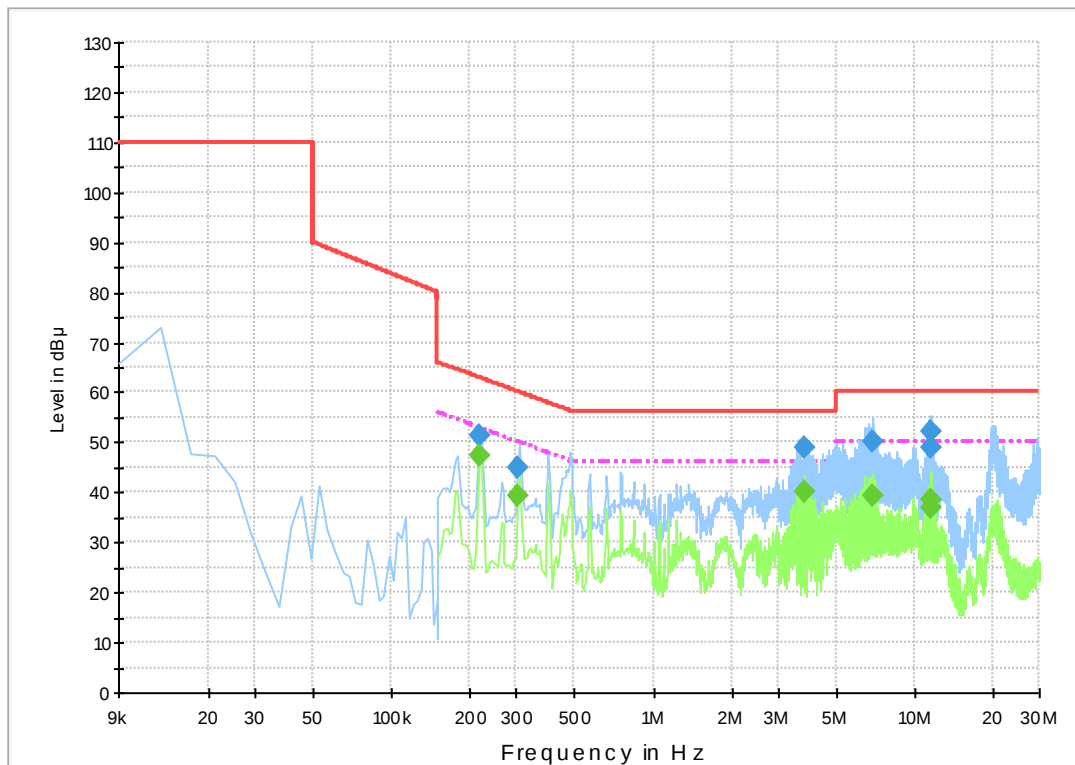
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.222 000	48.9	15 000.0	9.000	Off	L1	19.5	13.8	62.7
6.734 000	49.7	15 000.0	9.000	Off	L1	19.5	10.3	60.0
6.778 000	50.5	15 000.0	9.000	Off	L1	19.5	9.5	60.0
6.782 000	48.1	15 000.0	9.000	Off	L1	19.5	11.9	60.0
6.898 000	53.4	15 000.0	9.000	Off	L1	19.5	6.6	60.0
11.410 000	51.8	15 000.0	9.000	Off	L1	19.7	8.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.222 000	44.7	15 000.0	9.000	Off	L1	19.5	8.0	52.7
6.734 000	35.6	15 000.0	9.000	Off	L1	19.5	14.4	50.0
6.778 000	39.3	15 000.0	9.000	Off	L1	19.5	10.7	50.0
6.782 000	37.7	15 000.0	9.000	Off	L1	19.5	12.3	50.0
6.898 000	41.3	15 000.0	9.000	Off	L1	19.5	8.7	50.0
11.410 000	40.9	15 000.0	9.000	Off	L1	19.7	9.1	50.0

LISN ENV216 (9kHz-30MHz)_N



Final Result 1

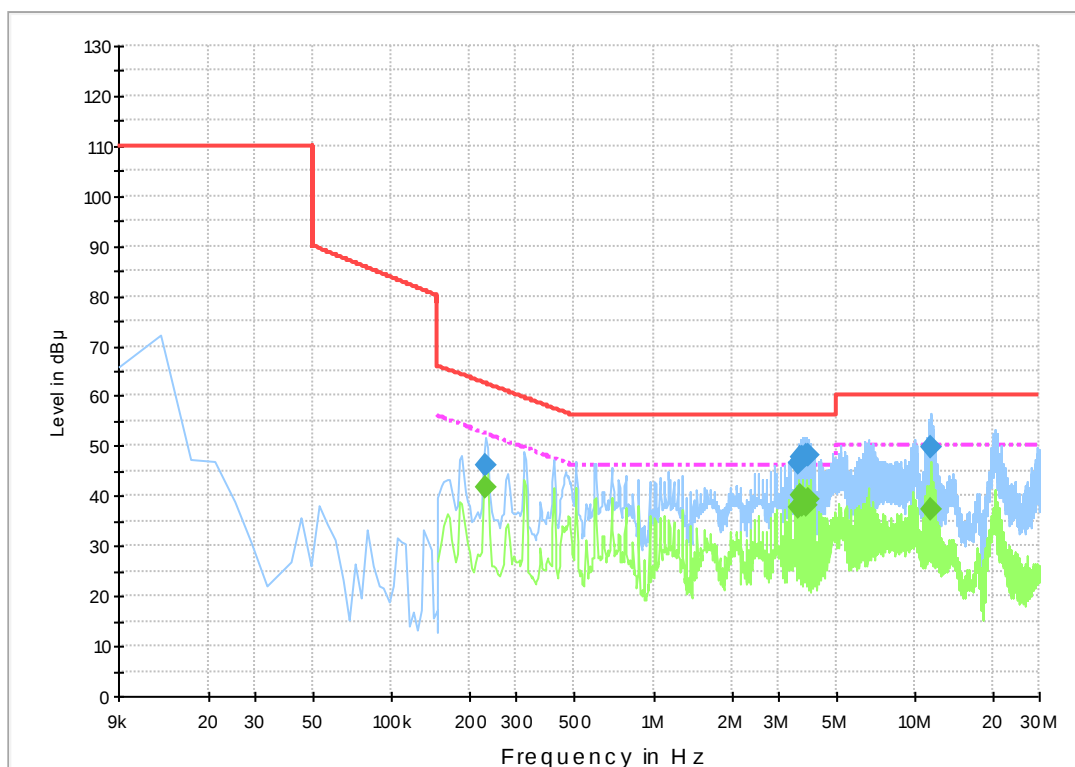
Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.218 000	51.2	15 000.0	9.000	Off	N	19.5	11.7	62.9
0.302 000	45.1	15 000.0	9.000	Off	N	19.5	15.1	60.2
3.774 000	49.1	15 000.0	9.000	Off	N	19.5	6.9	56.0
6.862 000	50.0	15 000.0	9.000	Off	N	19.5	10.0	60.0
11.458 000	52.3	15 000.0	9.000	Off	N	19.7	7.7	60.0
11.622 000	49.0	15 000.0	9.000	Off	N	19.7	11.0	60.0

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.218 000	47.3	15 000.0	9.000	Off	N	19.5	5.6	52.9
0.302 000	39.3	15 000.0	9.000	Off	N	19.5	10.9	50.2
3.774 000	40.2	15 000.0	9.000	Off	N	19.5	5.8	46.0
6.862 000	39.2	15 000.0	9.000	Off	N	19.5	10.8	50.0
11.458 000	38.5	15 000.0	9.000	Off	N	19.7	11.5	50.0
11.622 000	36.9	15 000.0	9.000	Off	N	19.7	13.1	50.0

- R-R Cooking Zone Operating mode

LISN ENV216 (9kHz-30MHz)_L1



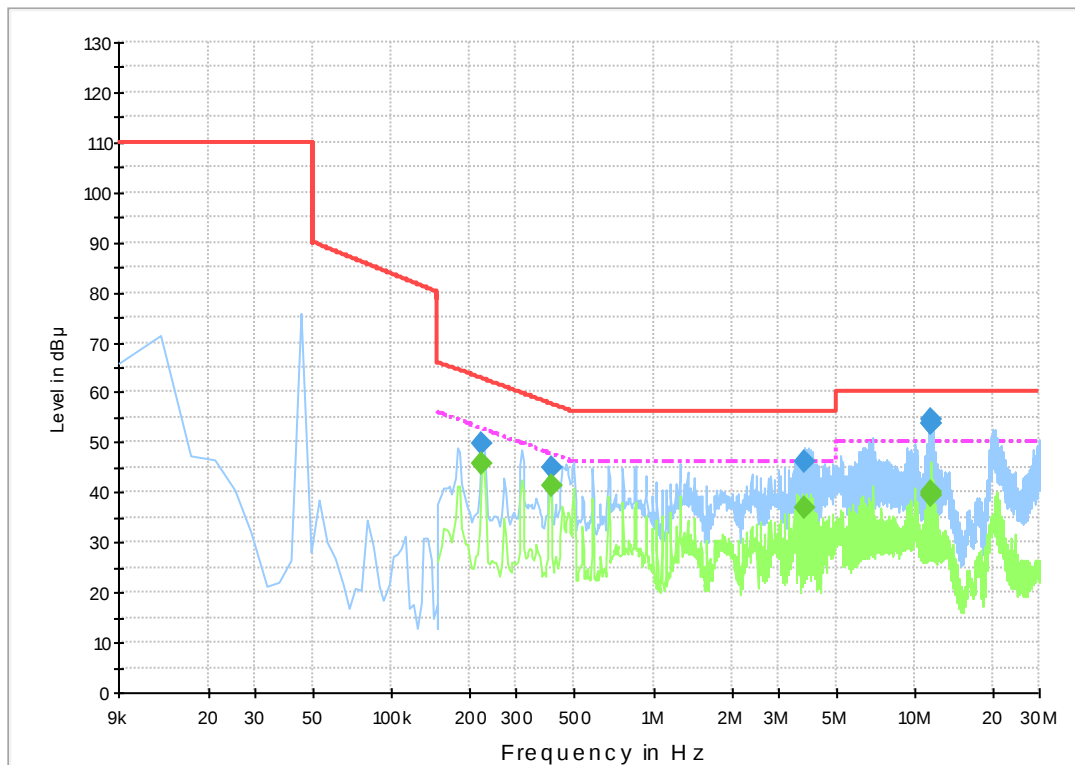
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.230 000	46.2	15 000.0	9.000	Off	L1	19.5	16.2	62.4
3.630 000	46.6	15 000.0	9.000	Off	L1	19.5	9.4	56.0
3.638 000	47.7	15 000.0	9.000	Off	L1	19.5	8.3	56.0
3.718 000	47.9	15 000.0	9.000	Off	L1	19.5	8.1	56.0
3.830 000	48.2	15 000.0	9.000	Off	L1	19.5	7.8	56.0
3.910 000	48.0	15 000.0	9.000	Off	L1	19.5	8.0	56.0
11.574 000	49.9	15 000.0	9.000	Off	L1	19.7	10.1	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.230 000	41.7	15 000.0	9.000	Off	L1	19.5	10.7	52.4
3.630 000	37.7	15 000.0	9.000	Off	L1	19.5	8.3	46.0
3.638 000	40.1	15 000.0	9.000	Off	L1	19.5	5.9	46.0
3.718 000	38.2	15 000.0	9.000	Off	L1	19.5	7.8	46.0
3.830 000	38.0	15 000.0	9.000	Off	L1	19.5	8.0	46.0
3.910 000	39.5	15 000.0	9.000	Off	L1	19.5	6.5	46.0
11.574 000	37.5	15 000.0	9.000	Off	L1	19.7	12.5	50.0

LISN ENV216 (9kHz-30MHz)_N



Final Result 1

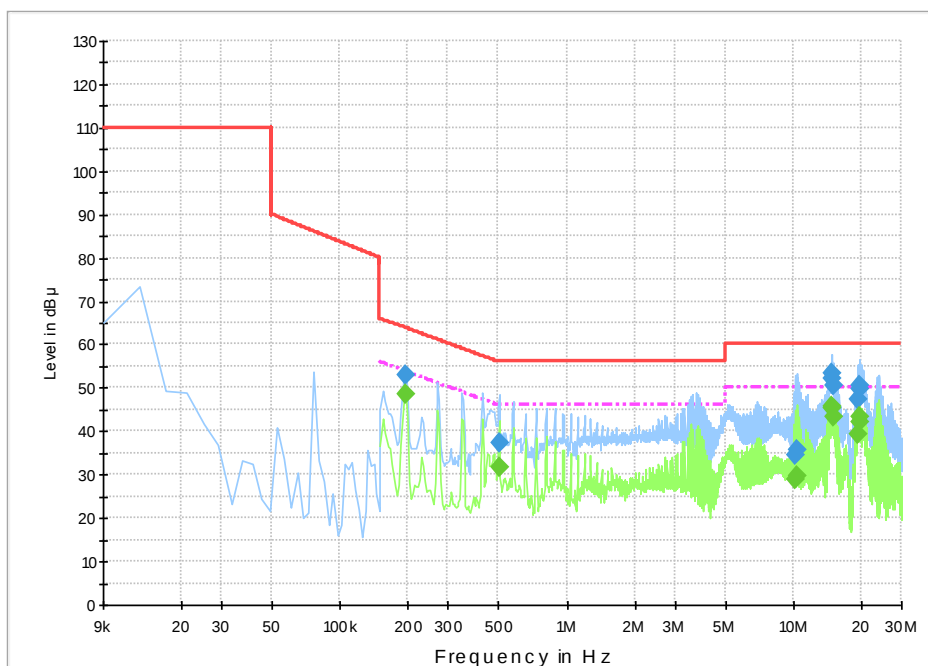
Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222 000	49.8	15 000.0	9.000	Off	N	19.5	12.9	62.7
0.406 000	45.1	15 000.0	9.000	Off	N	19.5	12.6	57.7
3.822 000	46.1	15 000.0	9.000	Off	N	19.5	9.9	56.0
11.554 000	53.8	15 000.0	9.000	Off	N	19.7	6.2	60.0
11.566 000	54.4	15 000.0	9.000	Off	N	19.7	5.6	60.0
11.578 000	53.8	15 000.0	9.000	Off	N	19.7	6.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222 000	45.8	15 000.0	9.000	Off	N	19.5	6.9	52.7
0.406 000	41.2	15 000.0	9.000	Off	N	19.5	6.5	47.7
3.822 000	37.0	15 000.0	9.000	Off	N	19.5	9.0	46.0
11.554 000	39.4	15 000.0	9.000	Off	N	19.7	10.6	50.0
11.566 000	39.7	15 000.0	9.000	Off	N	19.7	10.3	50.0
11.578 000	40.1	15 000.0	9.000	Off	N	19.7	9.9	50.0

- Dual Cooking Zone Operating mode

LISN ENV216 (9kHz-30MHz)_L1



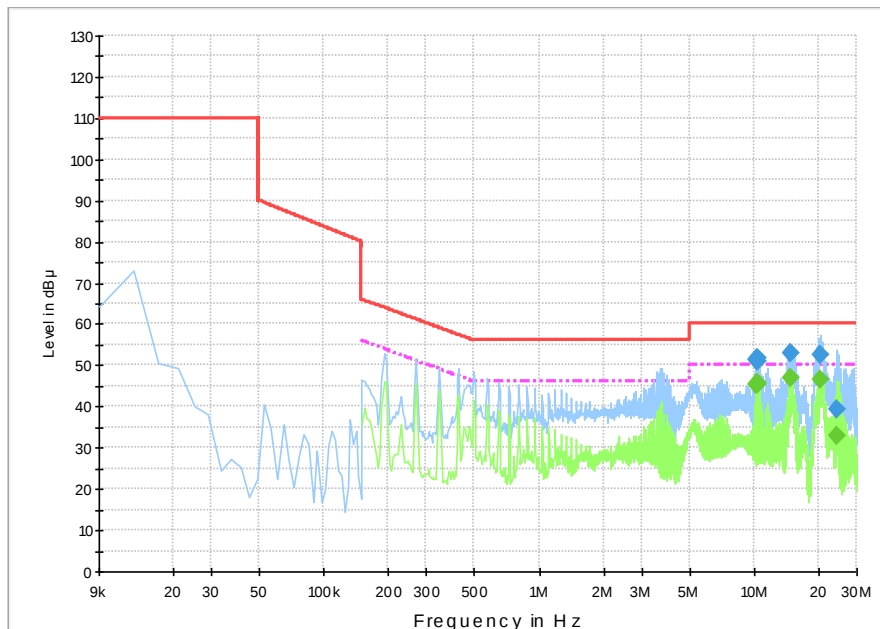
Final Result 1

Frequency (Mhz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.194 000	52.9	15 000.0	9.000	Off	L1	19.5	11.0	63.9
0.506 000	37.1	15 000.0	9.000	Off	L1	19.5	18.9	56.0
10.274 000	34.7	15 000.0	9.000	Off	L1	19.7	25.3	60.0
10.350 000	35.8	15 000.0	9.000	Off	L1	19.7	24.2	60.0
14.686 000	53.3	15 000.0	9.000	Off	L1	19.7	6.7	60.0
14.878 000	52.2	15 000.0	9.000	Off	L1	19.7	7.8	60.0
15.070 000	50.6	15 000.0	9.000	Off	L1	19.7	9.4	60.0
19.318 000	47.3	15 000.0	9.000	Off	L1	19.7	12.7	60.0
19.490 000	50.7	15 000.0	9.000	Off	L1	19.7	9.3	60.0
19.798 000	49.7	15 000.0	9.000	Off	L1	19.7	10.3	60.0

Final Result 2

Frequency (Mhz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.194 000	48.6	15 000.0	9.000	Off	L1	19.5	5.3	53.9
0.506 000	31.9	15 000.0	9.000	Off	L1	19.5	14.1	46.0
10.274 000	29.0	15 000.0	9.000	Off	L1	19.7	21.0	50.0
10.350 000	29.6	15 000.0	9.000	Off	L1	19.7	20.4	50.0
14.686 000	45.3	15 000.0	9.000	Off	L1	19.7	4.7	50.0
14.878 000	45.6	15 000.0	9.000	Off	L1	19.7	4.4	50.0
15.070 000	43.3	15 000.0	9.000	Off	L1	19.7	6.7	50.0
19.318 000	39.3	15 000.0	9.000	Off	L1	19.7	10.7	50.0
19.490 000	43.5	15 000.0	9.000	Off	L1	19.7	6.5	50.0
19.798 000	42.2	15 000.0	9.000	Off	L1	19.7	7.8	50.0

LISN ENV216 (9kHz-30MHz)_N



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
10.262 000	51.2	15 000.0	9.000	Off	N	19.7	8.8	60.0
10.338 000	51.7	15 000.0	9.000	Off	N	19.7	8.3	60.0
10.414 000	50.9	15 000.0	9.000	Off	N	19.7	9.1	60.0
14.878 000	52.9	15 000.0	9.000	Off	N	19.8	7.1	60.0
20.402 000	52.8	15 000.0	9.000	Off	N	19.8	7.2	60.0
24.318 000	39.2	15 000.0	9.000	Off	N	20.0	20.8	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
10.262 000	45.4	15 000.0	9.000	Off	N	19.7	4.6	50.0
10.338 000	45.9	15 000.0	9.000	Off	N	19.7	4.1	50.0
10.414 000	45.2	15 000.0	9.000	Off	N	19.7	4.8	50.0
14.878 000	46.9	15 000.0	9.000	Off	N	19.8	3.1	50.0
20.402 000	46.6	15 000.0	9.000	Off	N	19.8	3.4	50.0
24.318 000	32.8	15 000.0	9.000	Off	N	20.0	17.2	50.0

Measurement Uncertainty : 3.92 dB (The confidential level is about 95 %, $k = 2$)

Note1 : • Line (L1) : Hot • Line (N) : Neutral
 • Margin = Limit – Quasi Peak or CAverage
 • Corr. = LISN Factor + Cable loss + Pulse Limiter Factor

Note2 : This test has been conducted at 240 V~ which is the worst condition from operating voltages 208 V~ or 240 V~.

Ex) In case

Freq ; 0.5 MHz, level ; 30 dB(μV), CL ; 0.2 dB, LISN ; 9.5 dB, P/L: 9.8 dB

Result = Level + CL + LISN + P/L
 = 30 + 0.2 + 9.5 + 9.8 = 49.5

Margin = Limit – Result
 = 79 - 49.5 = 29.5

2.4 Radiated Emission

The initial preliminary exploratory scans were performed at 10 m distance over the measuring frequency range (9 kHz to 30 MHz) using a max hold mode incorporating a Peak detector and using the software of EMC32 (Version V9.15 from R&S). The final test data was measured using a Quasi-Peak detector. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was 2 m under 30 MHz.

2.4.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESU26	R&S	100570	2019.02.23
LOOP ANTENNA	HFH2-Z2	R&S	827525/002	2018.09.26
RF Cable	-	HUBER+ SUHNER	EMH-1Lab-RE-02, EMH-1Lab-RE-03	2018.12.16
10m SEMI-ANECHOIC CHAMBER	-	SY CORPORATION	-	-

Note : The Antenna calibration period is 2 years, but the other equipment calibration period are 1 year.

2.4.2 Test Site

10m SEMI-ANECHOIC CHAMBER in Giheung 1 Laboratory

2.4.3 Environment Conditions

Temperature : (Minimum 21.3, Maximum 21.5) °C

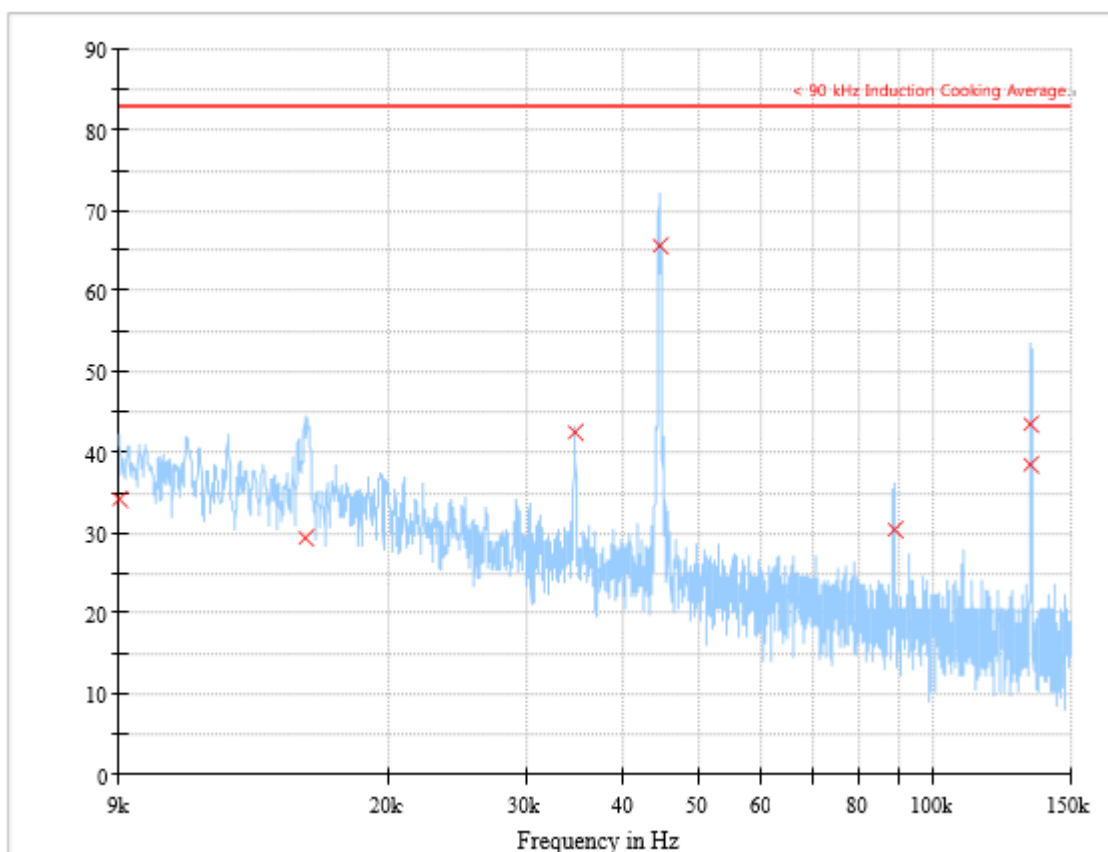
Humidity : (Minimum 41.0, Maximum 43.0) %R.H.

Atmospheric Pressure : (Minimum 100.7, Maximum 100.7) kPa

Test Date : July 21, 2018

2.4.4 Test Results

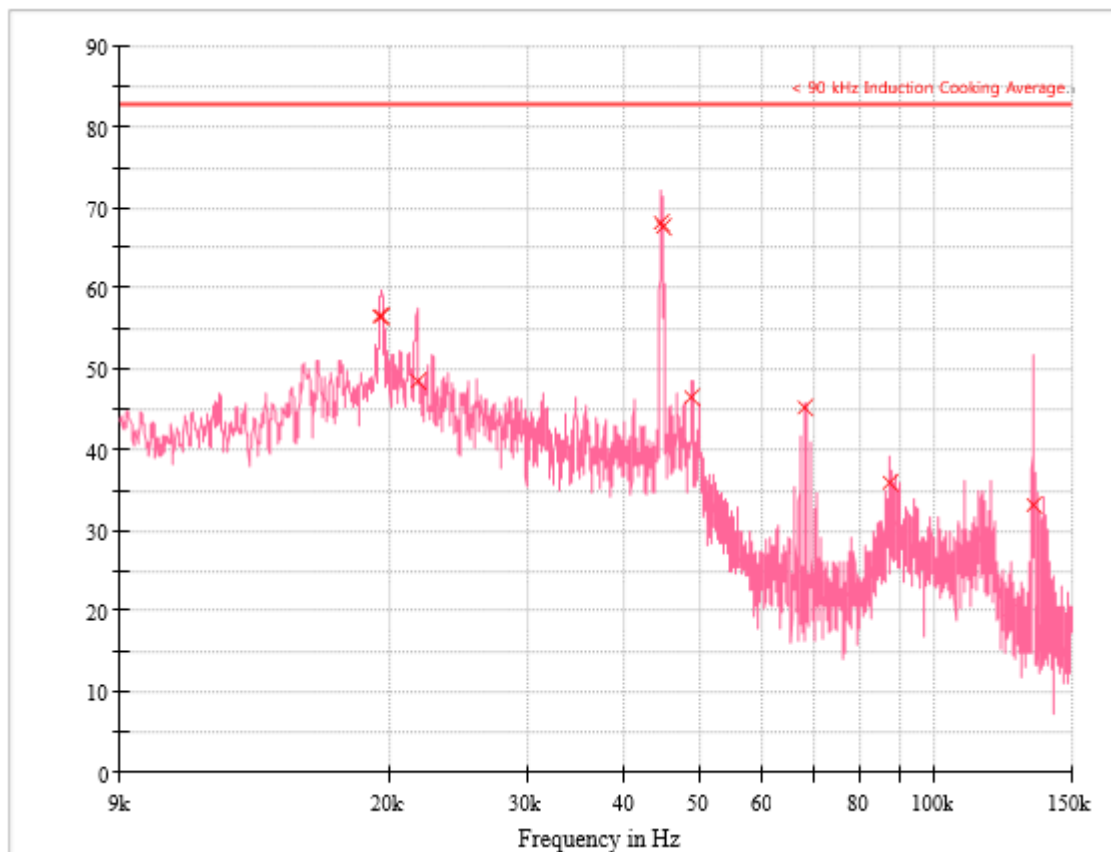
- L-R Cooking Zone Operating mode
 - Test Frequency: 9 kHz ~ 150 kHz
 - < Horizontal >



Final Result

Frequency (MHz)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.009000	34.16	82.6	48.44	15 000.0	0.200	H	59.0	19.4
0.015585	29.44	82.6	53.16	15 000.0	0.200	H	210.0	19.5
0.034634	42.50	82.6	40.10	15 000.0	0.200	H	285.0	19.7
0.044447	65.60	82.6	17.00	15 000.0	0.200	H	359.0	19.8
0.089000	30.34	82.6	52.26	15 000.0	0.200	H	359.0	19.8
0.133362	38.54	82.6	44.06	15 000.0	0.200	H	210.0	19.8
0.133404	43.50	82.6	39.10	15 000.0	0.200	H	359.0	19.8

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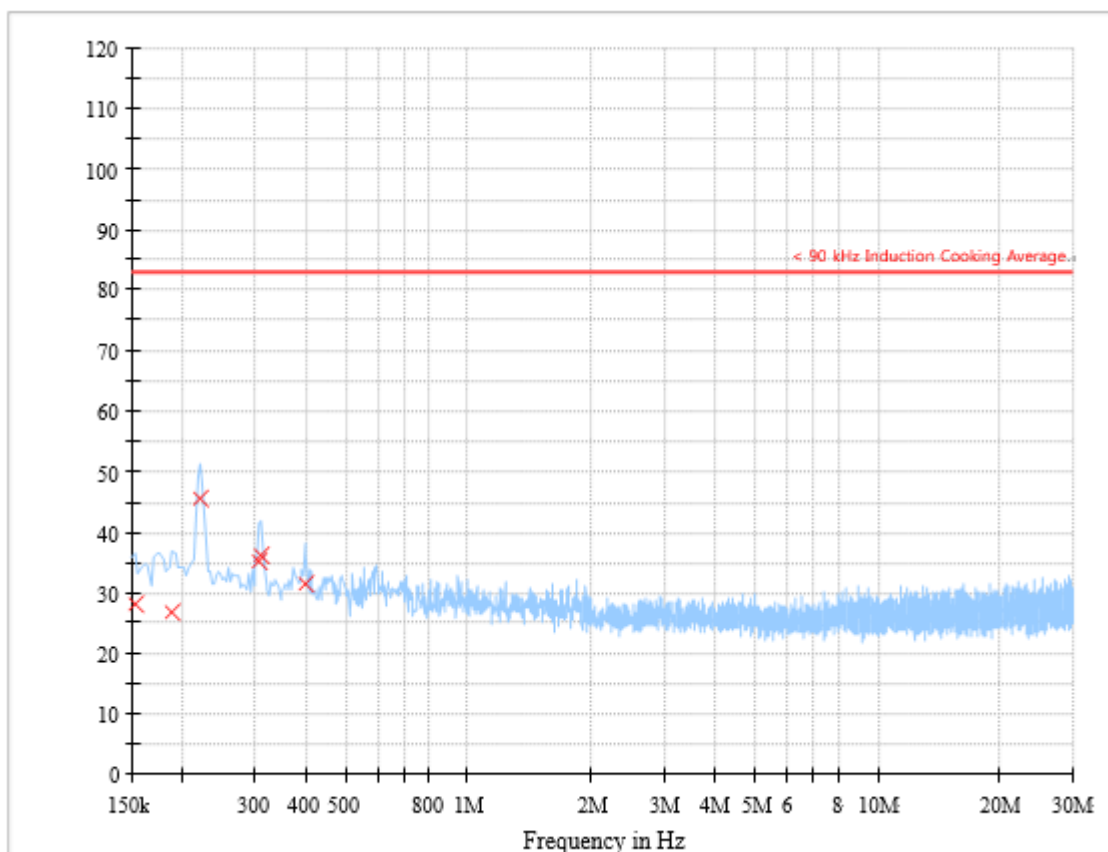


Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.019392	56.49	82.6	26.11	15 000.0	0.200	V	0.0	19.7
0.019504	56.58	82.6	26.02	15 000.0	0.200	V	285.0	19.7
0.021648	48.64	82.6	33.96	15 000.0	0.200	V	359.0	19.7
0.044574	68.15	82.6	14.45	15 000.0	0.200	V	58.0	19.8
0.044645	67.52	82.6	15.08	15 000.0	0.200	V	0.0	19.8
0.048818	46.55	82.6	36.05	15 000.0	0.200	V	0.0	19.8
0.068248	45.14	82.6	37.46	15 000.0	0.200	V	58.0	19.8
0.087748	35.86	82.6	46.74	15 000.0	0.200	V	285.0	19.8
0.133841	33.29	82.6	49.31	15 000.0	0.200	V	133.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

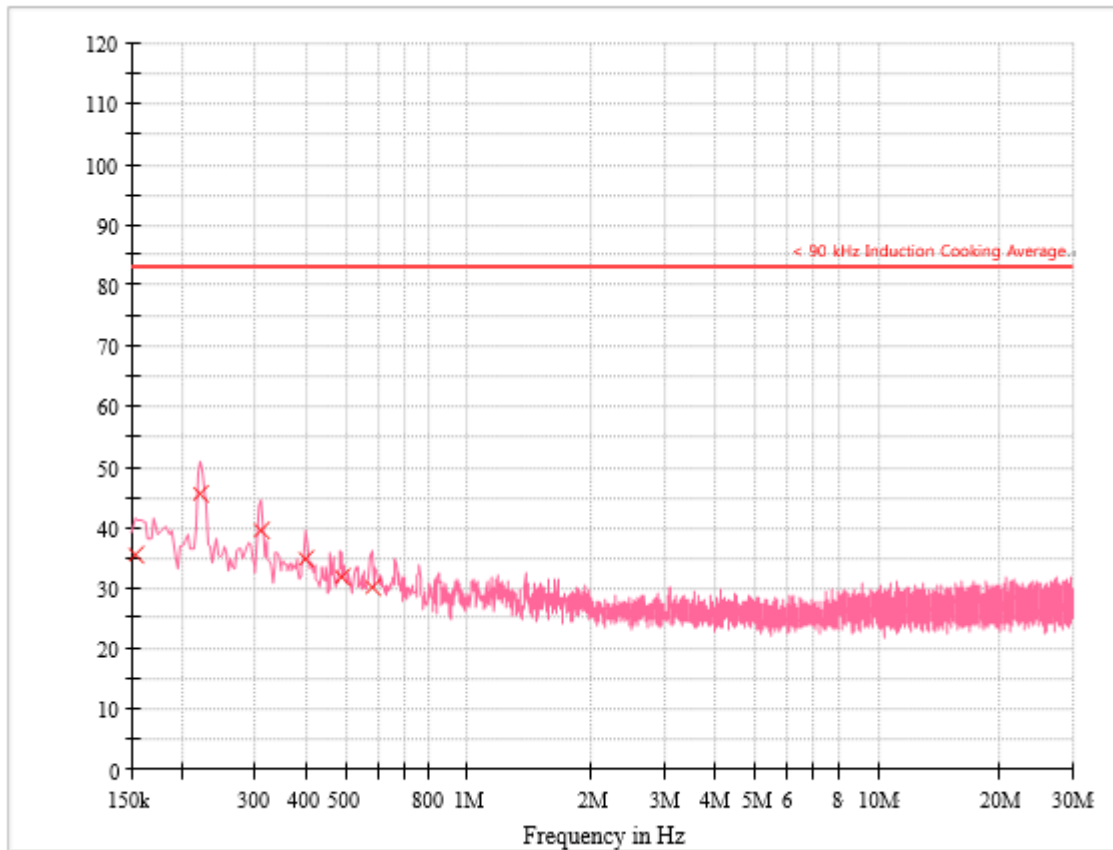
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.152 985	28.07	82.6	54.53	15 000.0	9.000	H	359.0	19.8
0.188 805	26.79	82.6	55.81	15 000.0	9.000	H	39.0	19.7
0.221 640	45.54	82.6	37.06	15 000.0	9.000	H	341.0	19.7
0.308 205	35.16	82.6	47.44	15 000.0	9.000	H	279.0	19.7
0.311 190	36.05	82.6	46.55	15 000.0	9.000	H	258.0	19.7
0.397 755	31.39	82.6	51.21	15 000.0	9.000	H	320.0	19.7

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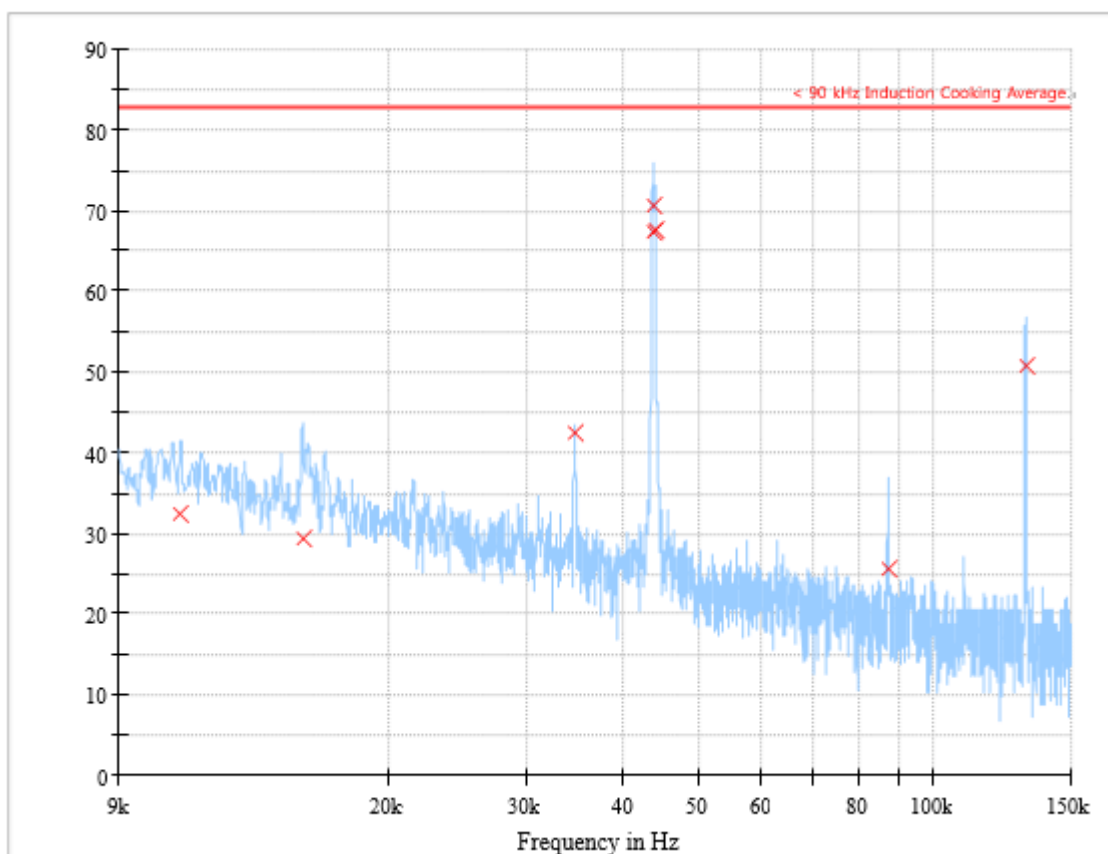
Final Result

Frequency (MHz)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.152 985	35.65	82.6	46.95	15 000.0	9.000	V	22.0	19.8
0.221 640	45.59	82.6	37.01	15 000.0	9.000	V	41.0	19.7
0.311 190	39.63	82.6	42.97	15 000.0	9.000	V	6.0	19.7
0.400 740	35.01	82.6	47.59	15 000.0	9.000	V	357.0	19.7
0.490 290	31.87	82.6	50.73	15 000.0	9.000	V	0.0	19.7
0.579 840	30.19	82.6	52.41	15 000.0	9.000	V	0.0	19.7

- L-F Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

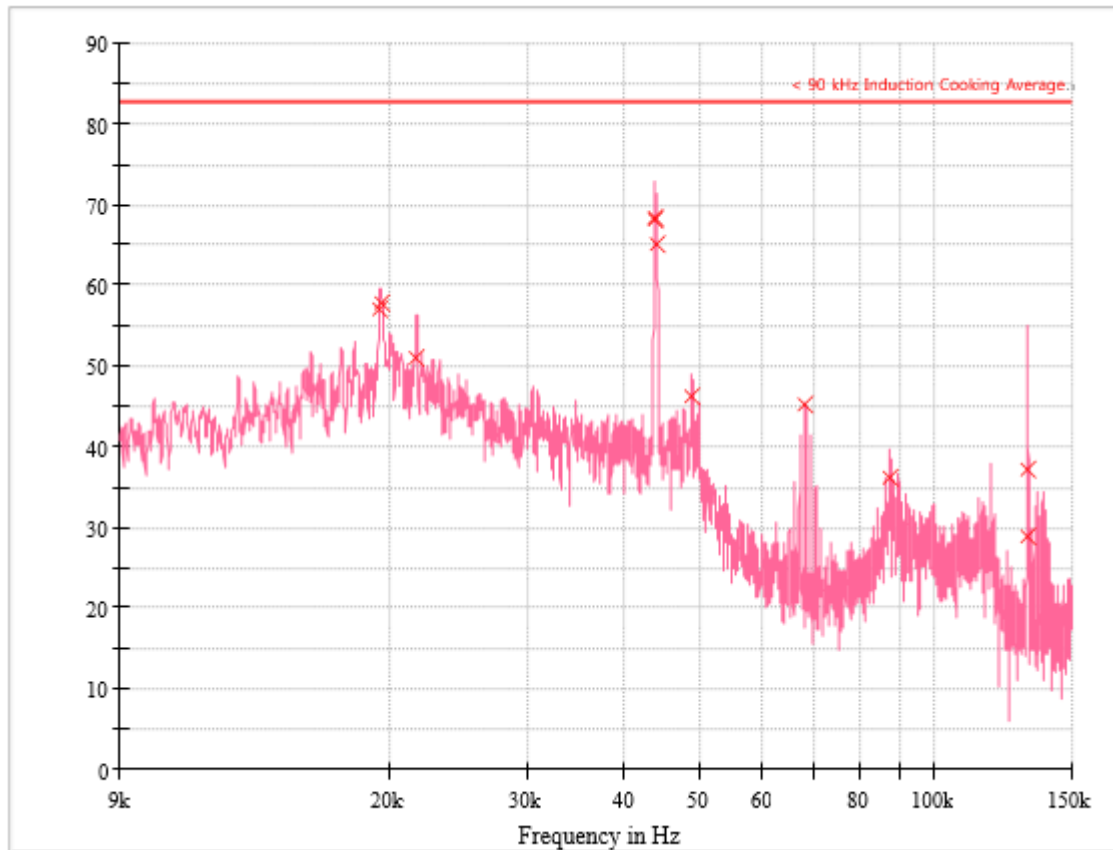
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.010 791	32.37	82.6	50.23	15 000.0	0.200	H	0.0	19.3
0.015 486	29.41	82.6	53.19	15 000.0	0.200	H	283.0	19.5
0.034 620	42.43	82.6	40.17	15 000.0	0.200	H	357.0	19.7
0.043 616	67.41	82.6	15.19	15 000.0	0.200	H	357.0	19.8
0.043 686	70.61	82.6	11.99	15 000.0	0.200	H	357.0	19.8
0.043 841	67.68	82.6	14.92	15 000.0	0.200	H	357.0	19.8
0.087 565	25.54	82.6	57.06	15 000.0	0.200	H	357.0	19.8
0.131 162	50.80	82.6	31.80	15 000.0	0.200	H	0.0	19.8

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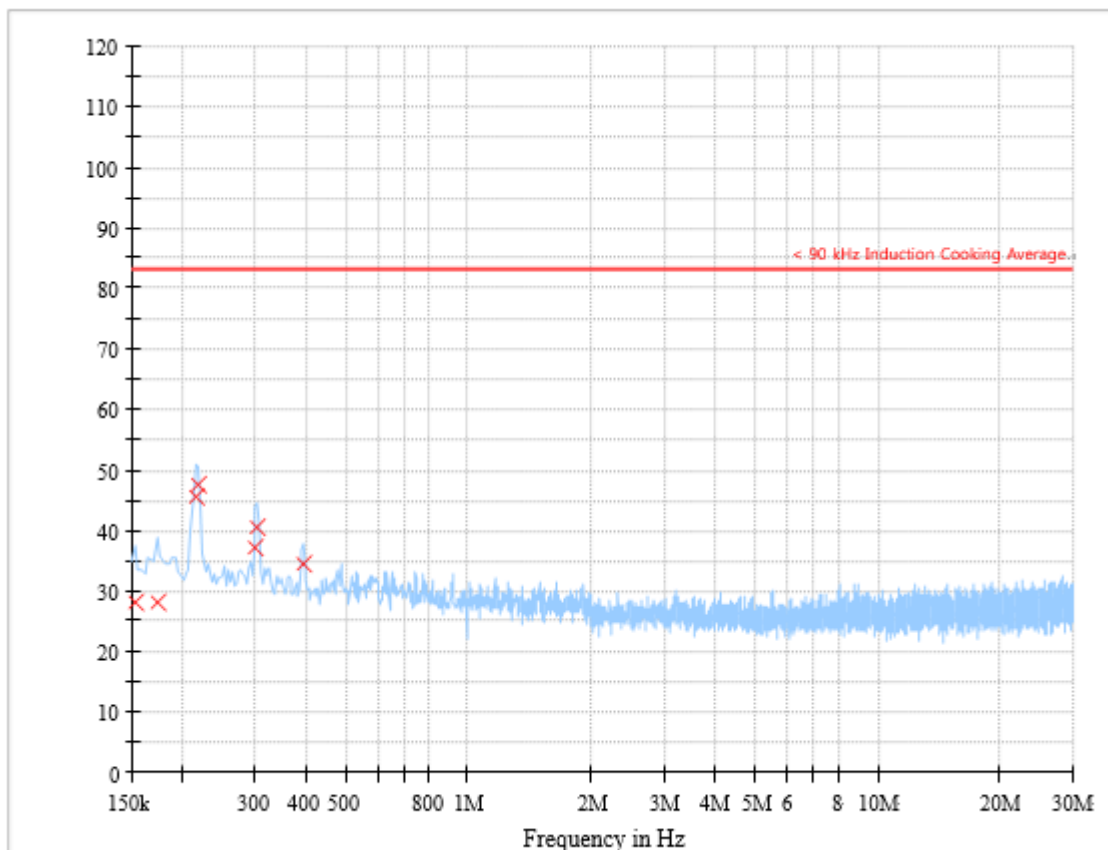


Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.019 406	57.11	82.6	25.49	15 000.0	0.200	V	0.0	19.7
0.019 434	57.90	82.6	24.70	15 000.0	0.200	V	283.0	19.7
0.021 620	51.02	82.6	31.58	15 000.0	0.200	V	56.0	19.7
0.043 728	68.03	82.6	14.57	15 000.0	0.200	V	56.0	19.8
0.043 742	68.28	82.6	14.32	15 000.0	0.200	V	56.0	19.8
0.043 883	65.02	82.6	17.58	15 000.0	0.200	V	283.0	19.8
0.048 776	46.21	82.6	36.39	15 000.0	0.200	V	131.0	19.8
0.068 248	45.29	82.6	37.31	15 000.0	0.200	V	357.0	19.8
0.087 678	36.24	82.6	46.36	15 000.0	0.200	V	0.0	19.8
0.131 585	37.16	82.6	45.44	15 000.0	0.200	V	131.0	19.8
0.131 740	28.99	82.6	53.61	15 000.0	0.200	V	131.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

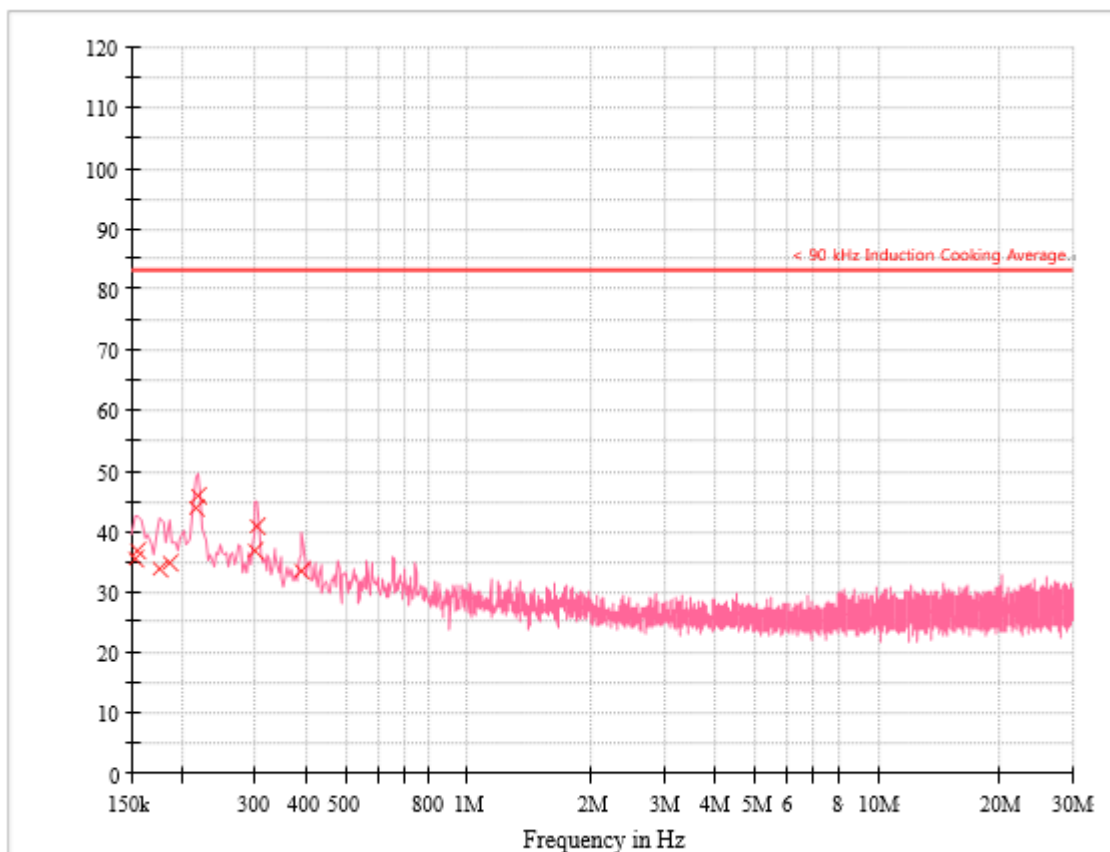
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.152 985	28.07	82.6	54.53	15 000.0	9.000	H	61.0	19.8
0.173 880	28.31	82.6	54.29	15 000.0	9.000	H	238.0	19.8
0.215 670	45.52	82.6	37.08	15 000.0	9.000	H	298.0	19.7
0.218 655	47.64	82.6	34.96	15 000.0	9.000	H	356.0	19.7
0.302 235	37.12	82.6	45.48	15 000.0	9.000	H	356.0	19.8
0.305 220	40.63	82.6	41.97	15 000.0	9.000	H	356.0	19.7
0.394 770	34.62	82.6	47.98	15 000.0	9.000	H	339.0	19.7

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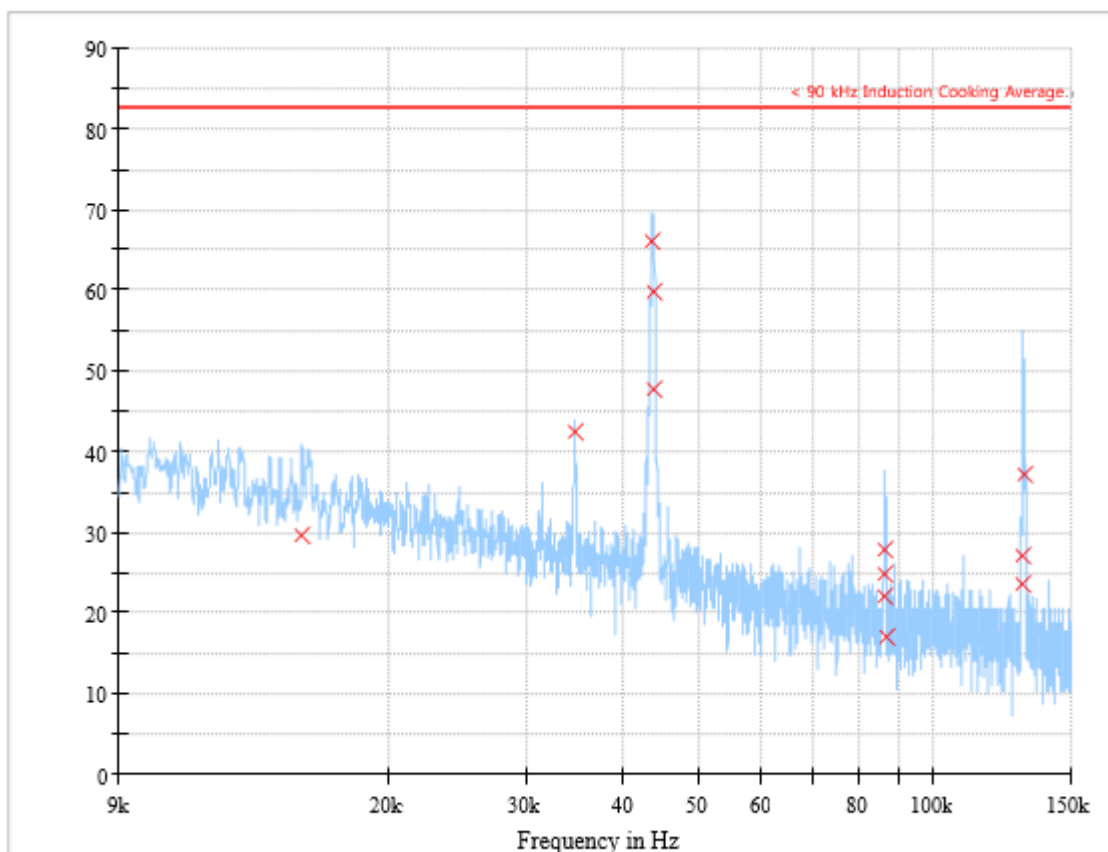
Final Result

Frequency (MHz)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.152 985	35.61	82.6	46.99	15 000.0	9.000	V	177.0	19.8
0.155 970	36.99	82.6	45.61	15 000.0	9.000	V	137.0	19.8
0.176 865	33.71	82.6	48.89	15 000.0	9.000	V	318.0	19.8
0.185 820	34.78	82.6	47.82	15 000.0	9.000	V	0.0	19.8
0.215 670	43.83	82.6	38.77	15 000.0	9.000	V	68.0	19.7
0.218 655	45.87	82.6	36.73	15 000.0	9.000	V	257.0	19.7
0.302 235	36.75	82.6	45.85	15 000.0	9.000	V	48.0	19.8
0.305 220	40.89	82.6	41.71	15 000.0	9.000	V	48.0	19.7
0.391 785	33.48	82.6	49.12	15 000.0	9.000	V	357.0	19.7

● R-F Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

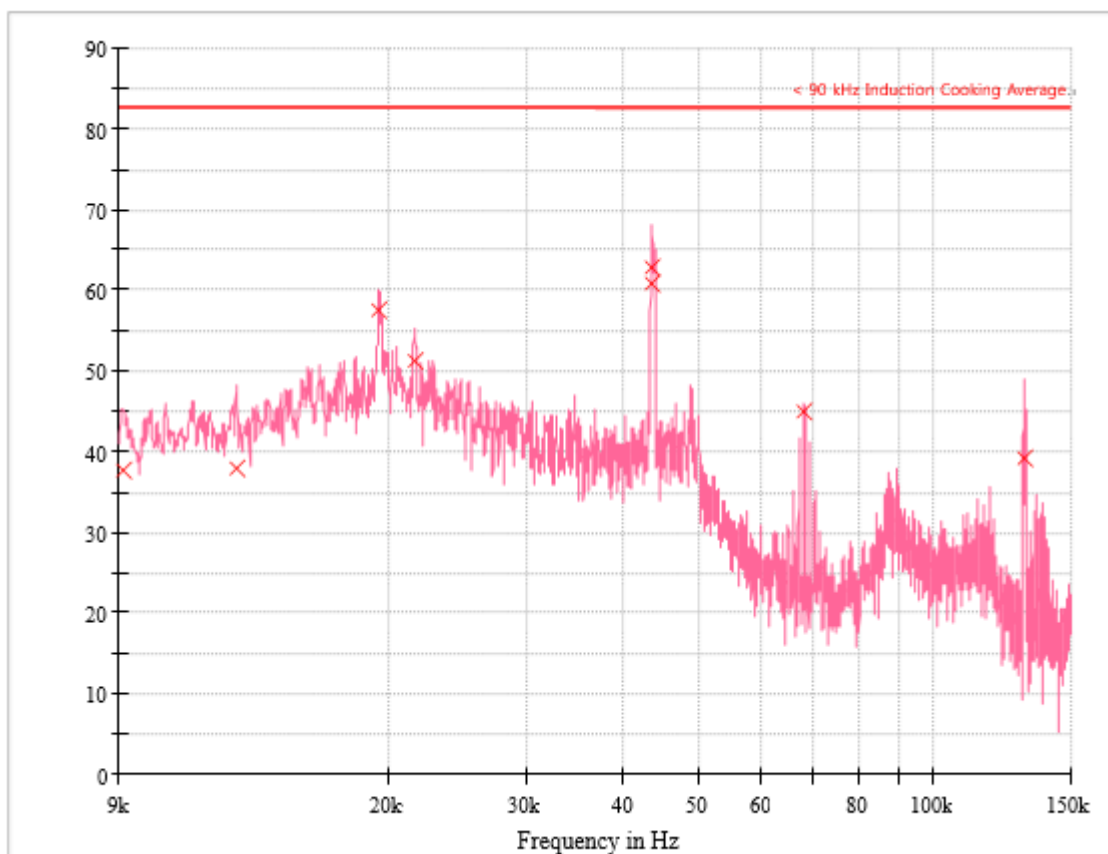
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.015 444	29.54	82.6	53.06	15 000.0	0.200	H	135.0	19.5
0.034 620	42.45	82.6	40.15	15 000.0	0.200	H	0.0	19.7
0.043 460	66.23	82.6	16.37	15 000.0	0.200	H	59.0	19.8
0.043 616	59.75	82.6	22.85	15 000.0	0.200	H	286.0	19.8
0.043 771	47.78	82.6	34.82	15 000.0	0.200	H	135.0	19.8
0.086 494	22.16	82.6	60.44	15 000.0	0.200	H	0.0	19.8
0.086 620	27.92	82.6	54.68	15 000.0	0.200	H	0.0	19.8
0.086 677	24.85	82.6	57.75	15 000.0	0.200	H	59.0	19.8
0.087 001	17.15	82.6	65.45	15 000.0	0.200	H	135.0	19.8
0.129 781	23.64	82.6	58.96	15 000.0	0.200	H	135.0	19.8
0.129 936	27.14	82.6	55.46	15 000.0	0.200	H	135.0	19.8
0.130 598	37.33	82.6	45.27	15 000.0	0.200	H	286.0	19.8

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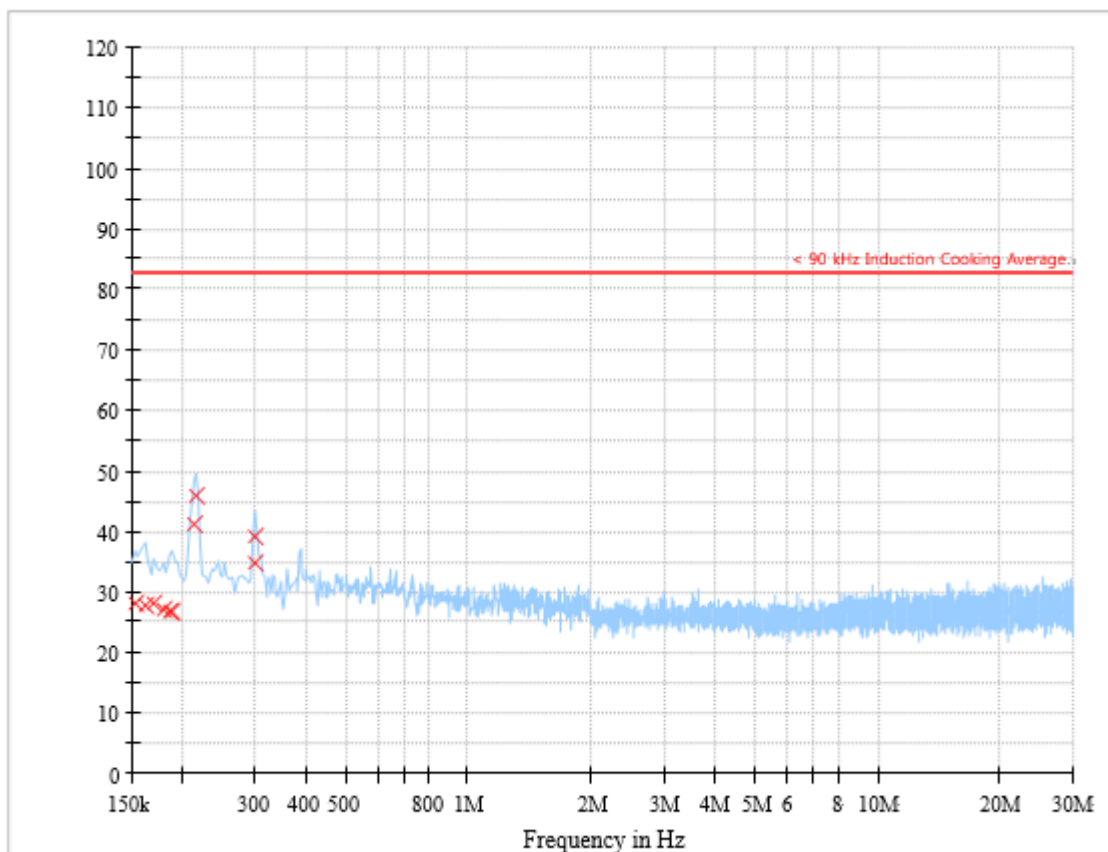


Final Result

Frequency (MHz)	Average (dB μ /m)	Limit (dB μ /m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.009 085	37.73	82.6	44.87	15 000.0	0.200	V	0.0	19.4
0.012 722	37.97	82.6	44.63	15 000.0	0.200	V	0.0	19.4
0.019 392	57.52	82.6	25.08	15 000.0	0.200	V	0.0	19.7
0.021 577	51.33	82.6	31.27	15 000.0	0.200	V	210.0	19.7
0.043 517	60.87	82.6	21.73	15 000.0	0.200	V	0.0	19.8
0.043 545	62.84	82.6	19.76	15 000.0	0.200	V	0.0	19.8
0.068 234	44.93	82.6	37.67	15 000.0	0.200	V	0.0	19.8
0.130 683	39.29	82.6	43.31	15 000.0	0.200	V	0.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

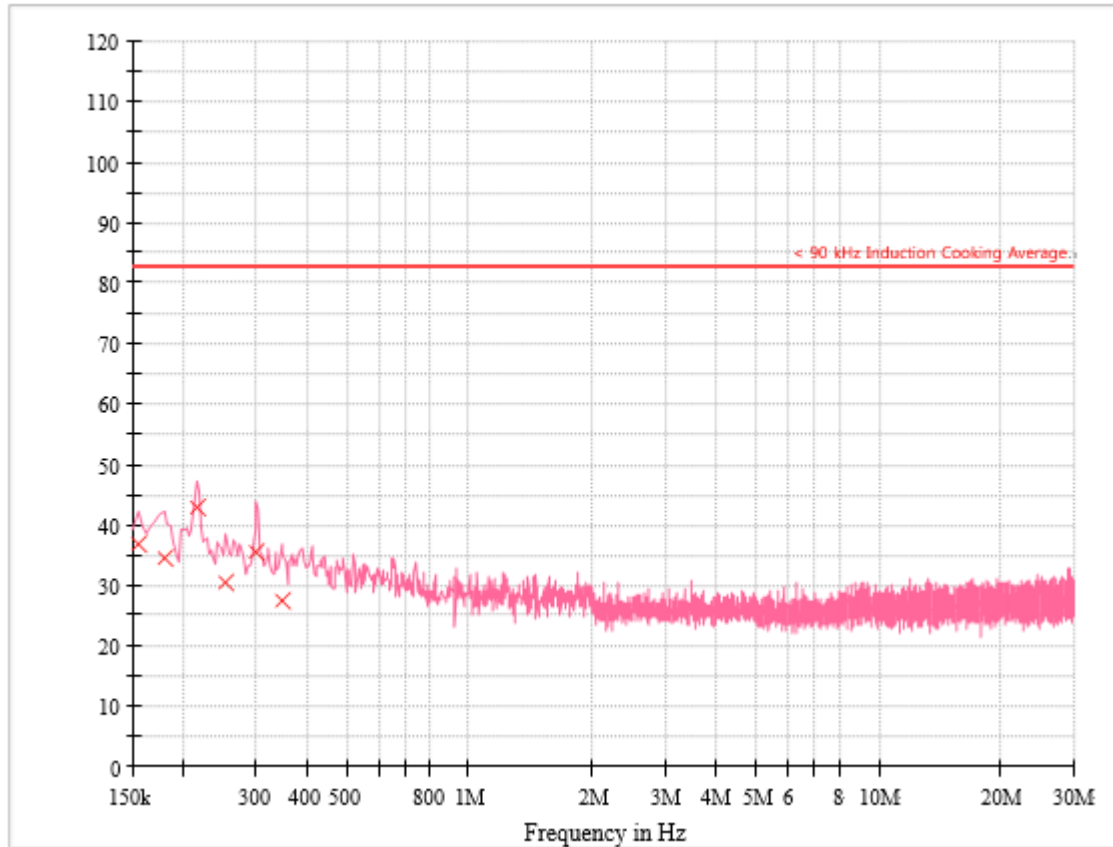
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Final Result

Frequency (MHz)	Average (dB μ /m)	Limit (dB μ /m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.152 985	28.12	82.6	54.48	15 000.0	9.000	H	342.0	19.8
0.161 940	27.65	82.6	54.95	15 000.0	9.000	H	137.0	19.8
0.170 895	28.27	82.6	54.33	15 000.0	9.000	H	97.0	19.8
0.179 850	27.10	82.6	55.50	15 000.0	9.000	H	342.0	19.8
0.185 820	26.90	82.6	55.70	15 000.0	9.000	H	56.0	19.8
0.188 805	26.76	82.6	55.84	15 000.0	9.000	H	116.0	19.7
0.212 685	41.38	82.6	41.22	15 000.0	9.000	H	76.0	19.7
0.215 670	45.90	82.6	36.70	15 000.0	9.000	H	76.0	19.7
0.299 250	34.74	82.6	47.86	15 000.0	9.000	H	56.0	19.8
0.302 235	39.30	82.6	43.30	15 000.0	9.000	H	56.0	19.8

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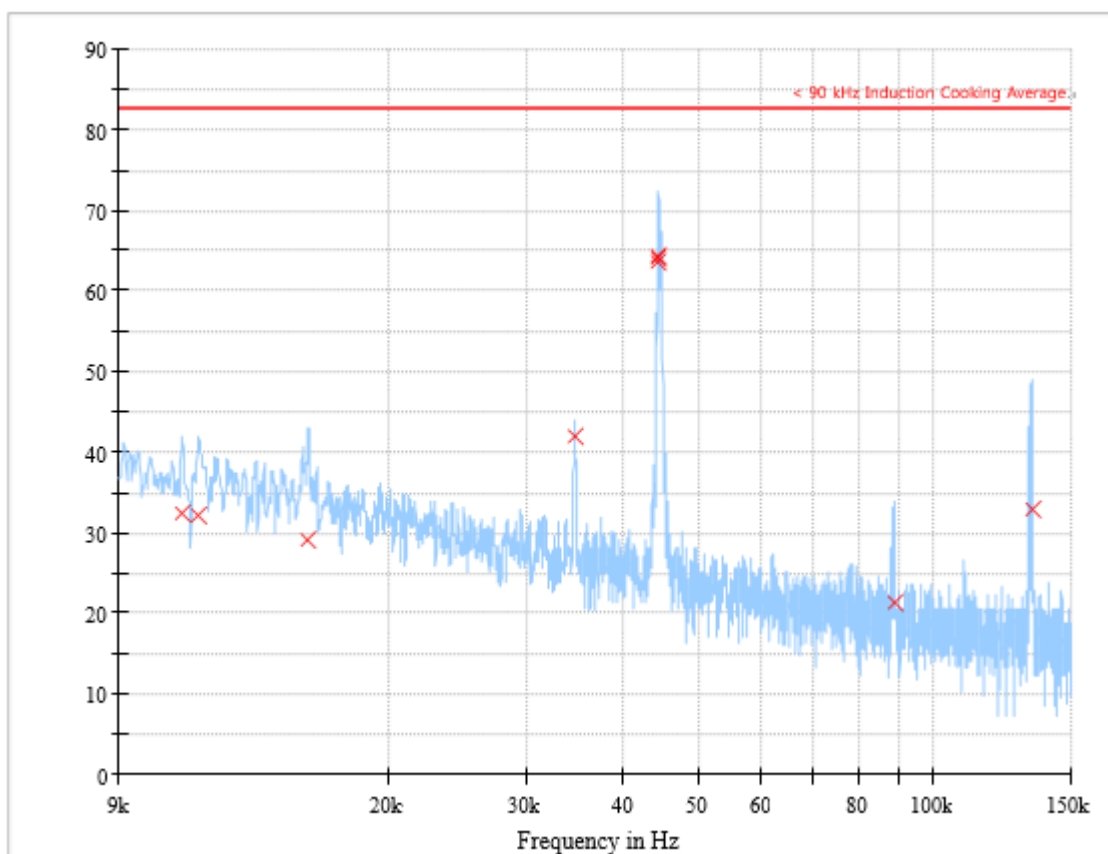
Final Result

Frequency (Mhz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.155 970	37.01	82.6	45.59	15 000.0	9.000	V	301.0	19.8
0.179 850	34.65	82.6	47.95	15 000.0	9.000	V	0.0	19.8
0.215 670	42.79	82.6	39.81	15 000.0	9.000	V	161.0	19.7
0.254 475	30.54	82.6	52.06	15 000.0	9.000	V	22.0	19.7
0.302 235	35.40	82.6	47.20	15 000.0	9.000	V	221.0	19.8
0.347 010	27.65	82.6	54.95	15 000.0	9.000	V	42.0	19.7

● R-R Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

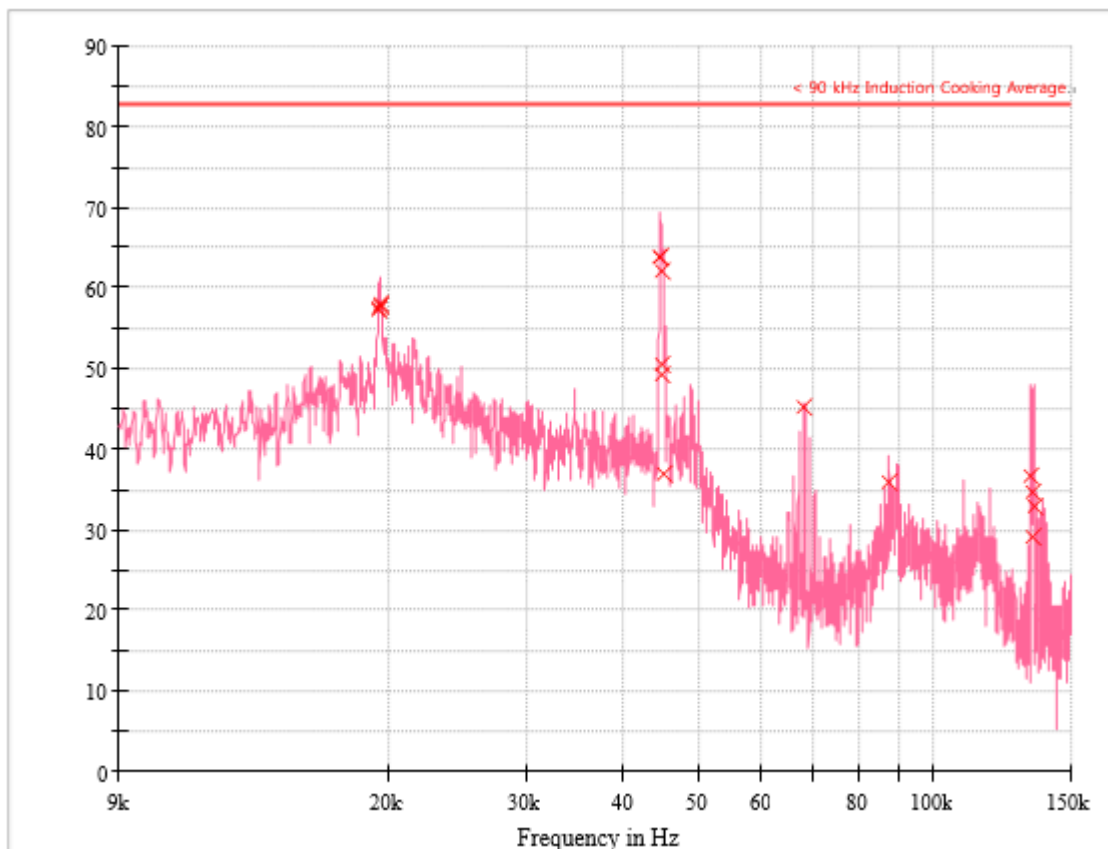
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.010 833	32.47	82.6	50.13	15 000.0	0.200	H	211.0	19.3
0.011 397	32.06	82.6	50.54	15 000.0	0.200	H	61.0	19.3
0.015 740	29.23	82.6	53.37	15 000.0	0.200	H	136.0	19.5
0.034 592	42.09	82.6	40.51	15 000.0	0.200	H	0.0	19.7
0.044 335	64.36	82.6	18.24	15 000.0	0.200	H	136.0	19.8
0.044 349	63.60	82.6	19.00	15 000.0	0.200	H	136.0	19.8
0.044 363	64.21	82.6	18.39	15 000.0	0.200	H	136.0	19.8
0.089 018	21.47	82.6	61.13	15 000.0	0.200	H	211.0	19.8
0.133 616	32.97	82.6	49.63	15 000.0	0.200	H	136.0	19.8

< Vertical >

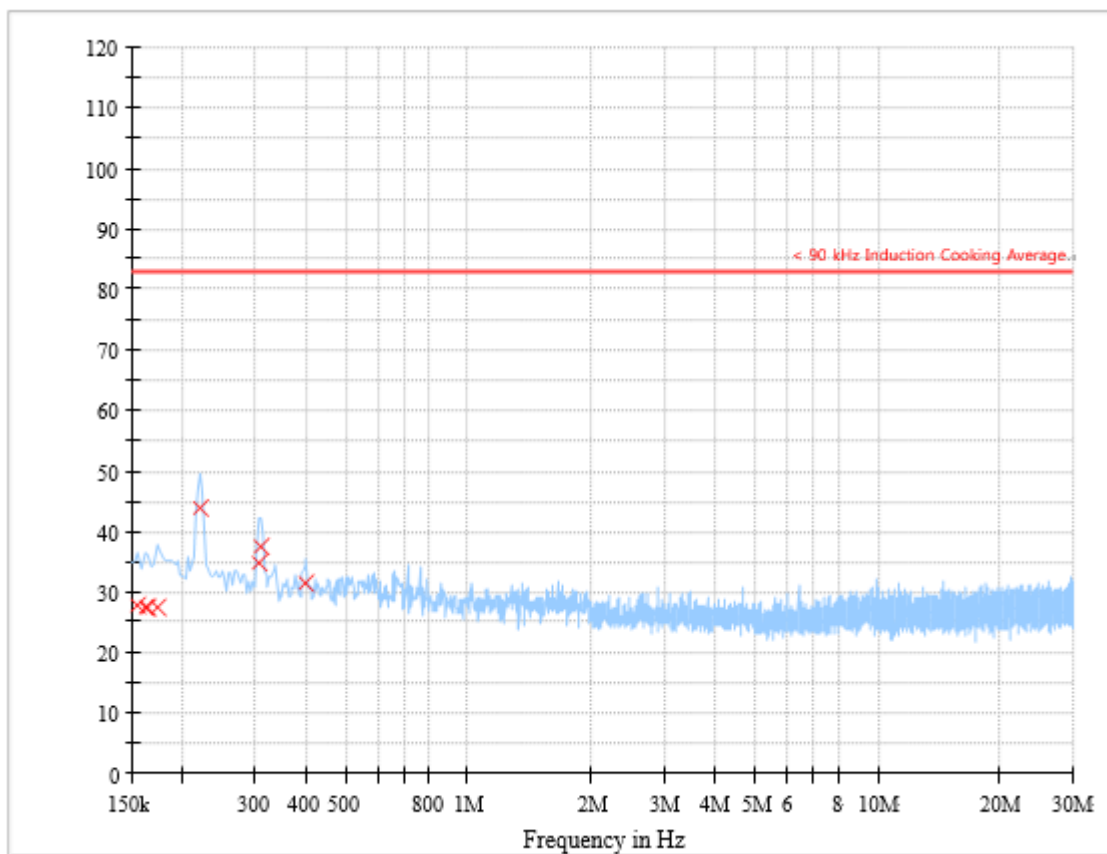


Final Result

Frequency (MHz)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.019 392	57.27	82.6	25.33	15 000.0	0.200	V	135.0	19.7
0.019 406	57.59	82.6	25.01	15 000.0	0.200	V	135.0	19.7
0.019 448	58.07	82.6	24.53	15 000.0	0.200	V	0.0	19.7
0.019 462	57.79	82.6	24.81	15 000.0	0.200	V	0.0	19.7
0.044 602	63.90	82.6	18.70	15 000.0	0.200	V	60.0	19.8
0.044 617	63.74	82.6	18.86	15 000.0	0.200	V	60.0	19.8
0.044 659	62.01	82.6	20.59	15 000.0	0.200	V	0.0	19.8
0.044 842	50.51	82.6	32.09	15 000.0	0.200	V	0.0	19.8
0.044 856	49.38	82.6	33.22	15 000.0	0.200	V	0.0	19.8
0.045 011	37.00	82.6	45.60	15 000.0	0.200	V	0.0	19.8
0.068 248	45.32	82.6	37.28	15 000.0	0.200	V	0.0	19.8
0.087 678	36.04	82.6	46.56	15 000.0	0.200	V	135.0	19.8
0.133 447	36.69	82.6	45.91	15 000.0	0.200	V	0.0	19.8
0.133 884	34.73	82.6	47.87	15 000.0	0.200	V	60.0	19.8
0.134 180	29.14	82.6	53.46	15 000.0	0.200	V	0.0	19.8
0.134 349	32.84	82.6	49.76	15 000.0	0.200	V	0.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

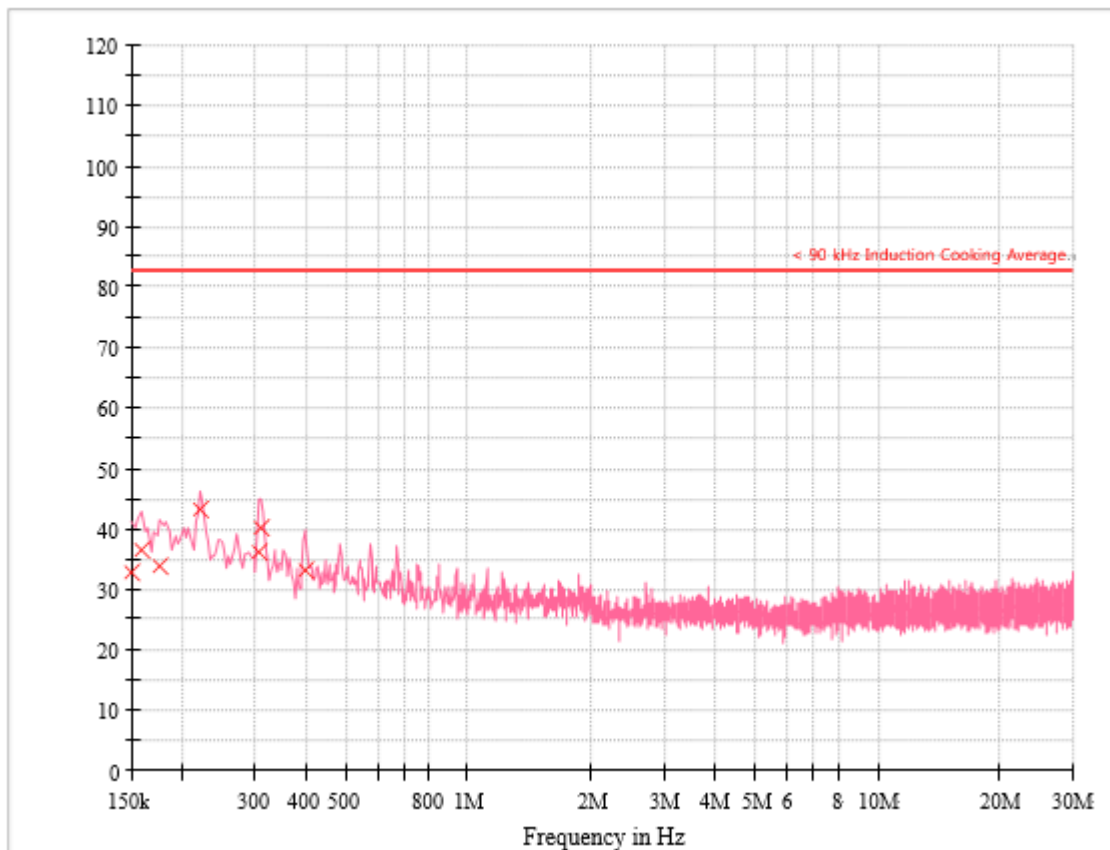
< Horizontal >



Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.155 970	27.88	82.6	54.72	15 000.0	9.000	H	0.0	19.8
0.161 940	27.62	82.6	54.98	15 000.0	9.000	H	262.0	19.8
0.164 925	27.55	82.6	55.05	15 000.0	9.000	H	262.0	19.8
0.173 880	27.48	82.6	55.12	15 000.0	9.000	H	0.0	19.8
0.221 640	43.87	82.6	38.73	15 000.0	9.000	H	125.0	19.7
0.308 205	34.96	82.6	47.64	15 000.0	9.000	H	322.0	19.7
0.311 190	37.43	82.6	45.17	15 000.0	9.000	H	85.0	19.7
0.400 740	31.49	82.6	51.11	15 000.0	9.000	H	165.0	19.7

< Vertical >



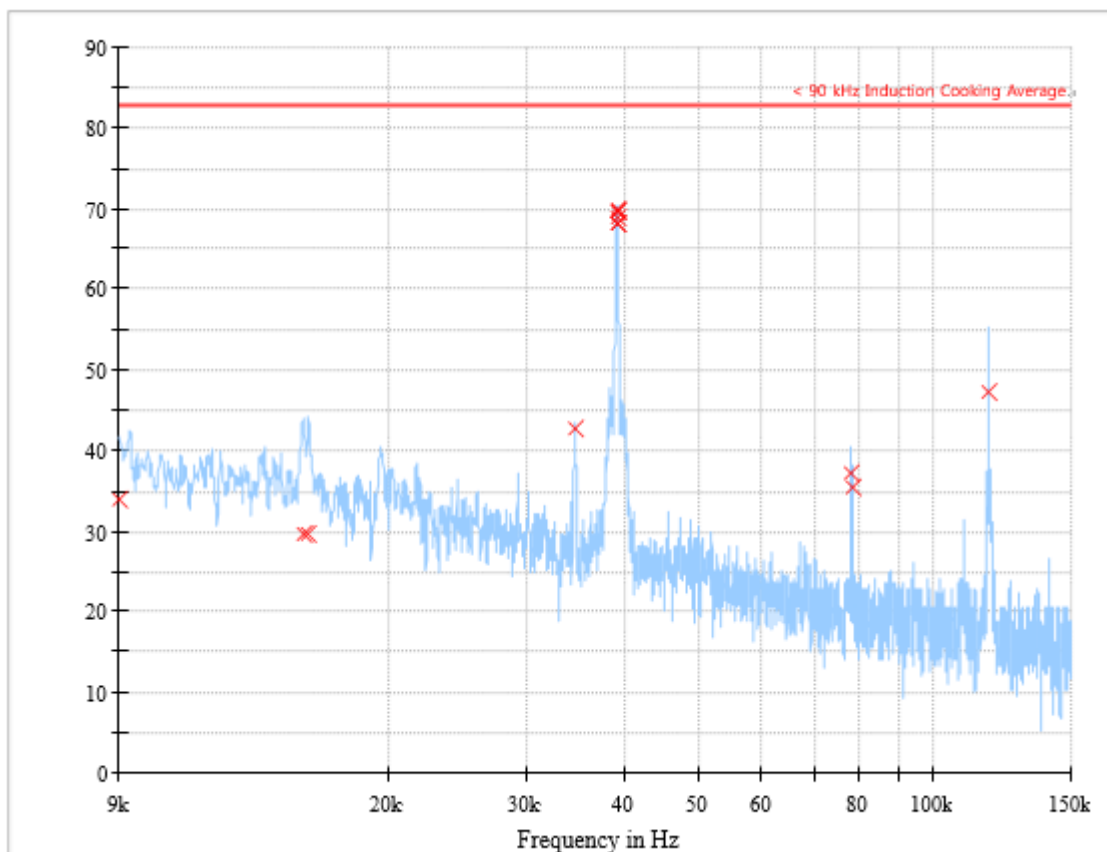
Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.150 000	32.96	82.6	49.64	15 000.0	9.000	V	166.0	19.8
0.158 955	36.54	82.6	46.06	15 000.0	9.000	V	287.0	19.8
0.176 865	34.02	82.6	48.58	15 000.0	9.000	V	226.0	19.8
0.221 640	43.12	82.6	39.48	15 000.0	9.000	V	0.0	19.7
0.308 205	36.24	82.6	46.36	15 000.0	9.000	V	65.0	19.7
0.311 190	40.23	82.6	42.37	15 000.0	9.000	V	46.0	19.7
0.397 755	33.06	82.6	49.54	15 000.0	9.000	V	5.0	19.7

● Dual Cooking Zone Operating mode

- Test Frequency: 9 kHz ~ 150 kHz

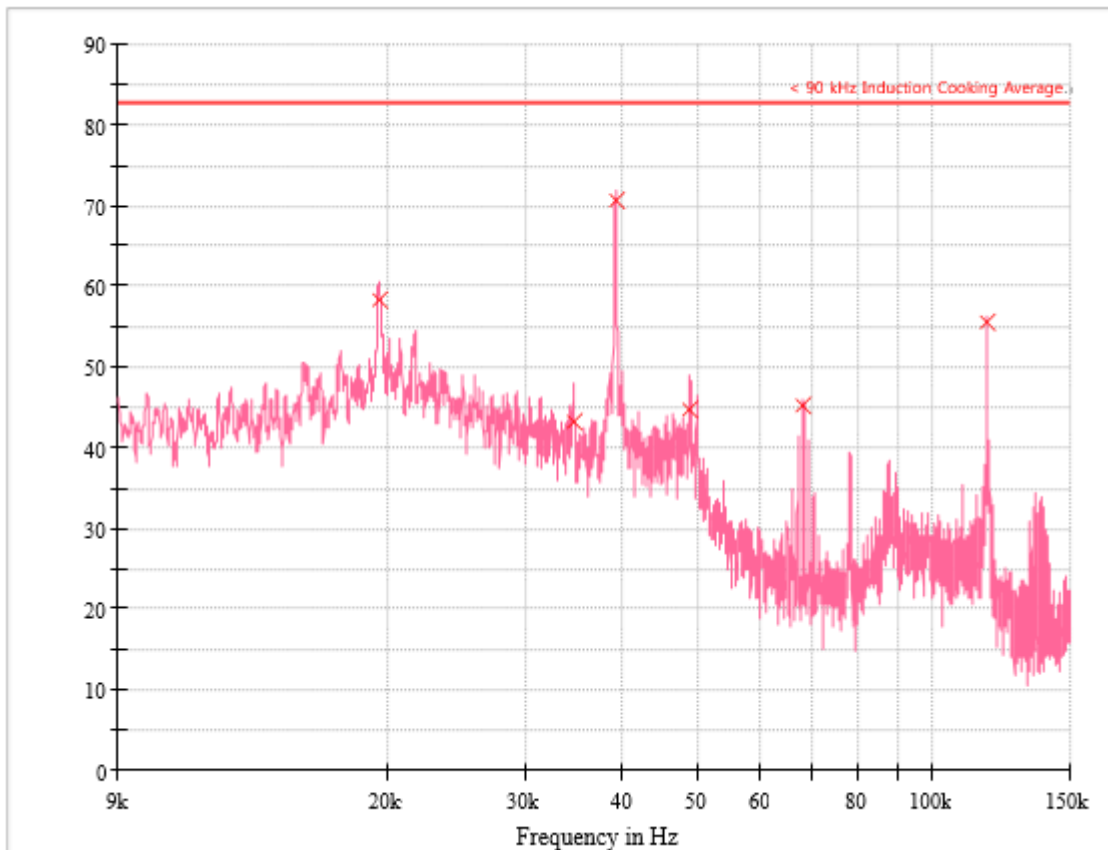
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Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.009 000	34.02	82.6	48.58	15 000.0	0.200	H	0.0	19.4
0.015 500	29.78	82.6	52.82	15 000.0	0.200	H	310.0	19.5
0.015 726	29.71	82.6	52.89	15 000.0	0.200	H	160.0	19.5
0.034 620	42.77	82.6	39.83	15 000.0	0.200	H	160.0	19.7
0.039 132	69.52	82.6	13.08	15 000.0	0.200	H	74.0	19.8
0.039 146	69.75	82.6	12.85	15 000.0	0.200	H	74.0	19.8
0.039 160	69.77	82.6	12.83	15 000.0	0.200	H	74.0	19.8
0.039 202	68.99	82.6	13.61	15 000.0	0.200	H	235.0	19.8
0.039 216	68.11	82.6	14.49	15 000.0	0.200	H	235.0	19.8
0.039 216	68.21	82.6	14.39	15 000.0	0.200	H	235.0	19.8
0.078 302	37.33	82.6	45.27	15 000.0	0.200	H	0.0	19.8
0.078 372	35.35	82.6	47.25	15 000.0	0.200	H	0.0	19.8
0.117 485	47.22	82.6	35.38	15 000.0	0.200	H	0.0	19.8

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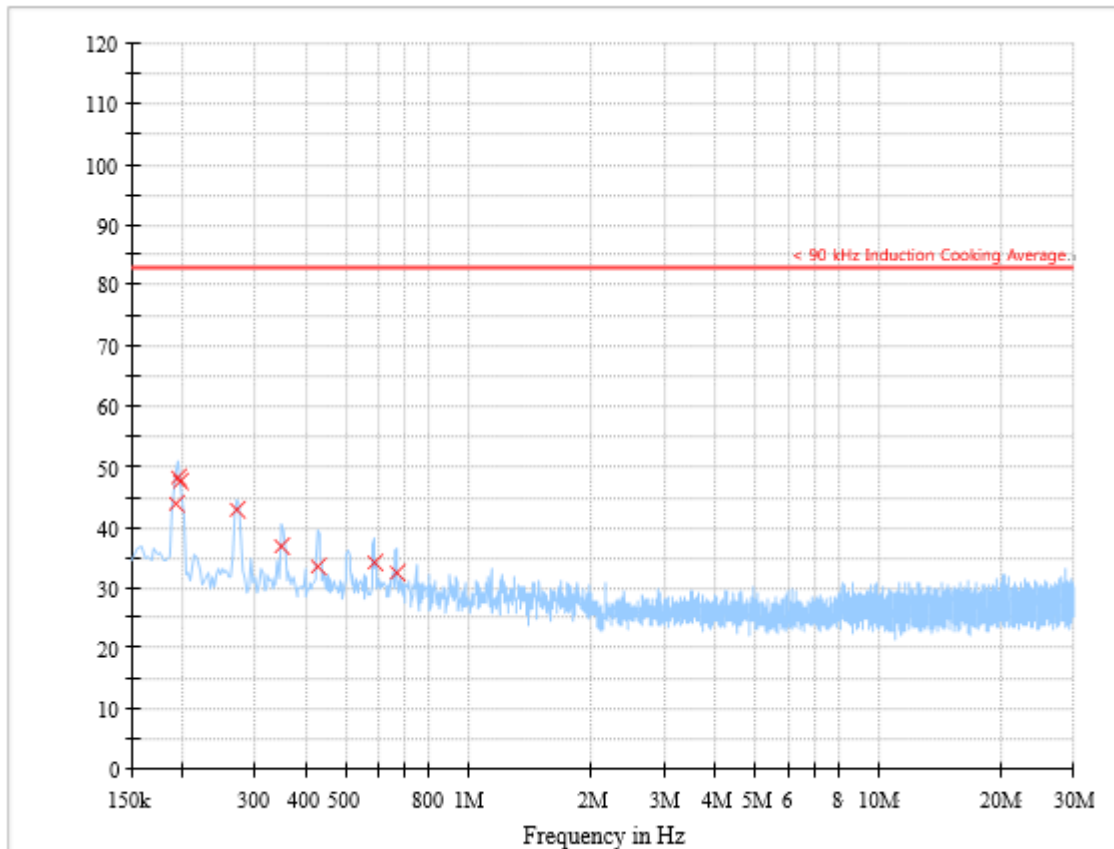


Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.019 448	58.33	82.6	24.27	15 000.0	0.200	V	0.0	19.7
0.034 620	43.26	82.6	39.34	15 000.0	0.200	V	0.0	19.7
0.039 174	70.58	82.6	12.02	15 000.0	0.200	V	0.0	19.8
0.048 734	44.77	82.6	37.83	15 000.0	0.200	V	60.0	19.8
0.068 248	45.27	82.6	37.33	15 000.0	0.200	V	0.0	19.8
0.117 471	55.49	82.6	27.11	15 000.0	0.200	V	0.0	19.8

- Test Frequency: 150 kHz ~ 30 MHz

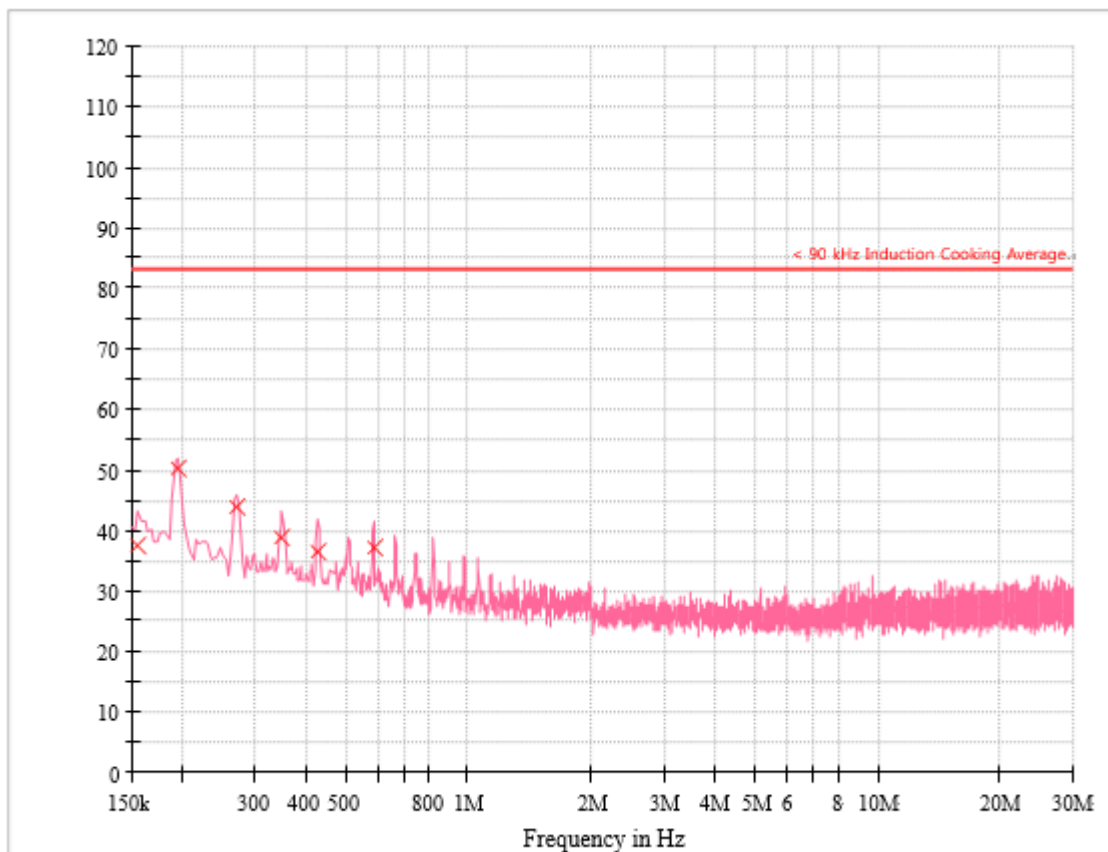
< Horizontal >



Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.191 790	44.05	82.6	38.55	15 000.0	9.000	H	282.0	19.7
0.194 775	48.38	82.6	34.22	15 000.0	9.000	H	282.0	19.7
0.197 760	47.50	82.6	35.10	15 000.0	9.000	H	282.0	19.7
0.272 385	42.76	82.6	39.84	15 000.0	9.000	H	243.0	19.7
0.349 995	36.90	82.6	45.70	15 000.0	9.000	H	66.0	19.7
0.427 605	33.47	82.6	49.13	15 000.0	9.000	H	66.0	19.7
0.585 810	34.25	82.6	48.35	15 000.0	9.000	H	262.0	19.7
0.666 405	32.40	82.6	50.20	15 000.0	9.000	H	243.0	19.8

< Vertical >



Final Result

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
0.155 970	37.57	82.6	45.03	15 000.0	9.000	V	223.0	19.8
0.194 775	50.39	82.6	32.21	15 000.0	9.000	V	321.0	19.7
0.272 385	43.92	82.6	38.68	15 000.0	9.000	V	0.0	19.7
0.349 995	38.80	82.6	43.80	15 000.0	9.000	V	160.0	19.7
0.427 605	36.59	82.6	46.01	15 000.0	9.000	V	139.0	19.7
0.585 810	37.36	82.6	45.24	15 000.0	9.000	V	340.0	19.7

Measurement Uncertainty (Horizontal) : 4.24 dB (The confidential level is about 95 %, $k = 2$)

Measurement Uncertainty (Vertical) : 4.24 dB (The confidential level is about 95 %, $k = 2$)

Note1 : • Margin = Limit – Average

• Corr. = Antenna Factor + Cable loss

Note2 : This test has been conducted at 240 V~ which is the worst condition from operating voltages 208 V~ or 240 V~.

- End of Test Report -