FCC 47 CFR PART 15 SUBPART B

SDoC TEST REPORT

FOR

RealScan-G10

MODEL NUMBER : RS-G10

REPORT NUMBER: 4789903109-FE1V3

ISSUE DATE: Aug. 10, 2023

Prepared for

Xperix Inc.
1207, 37, Sagimakgol-ro, 62beon-gill, Jungwon-gu,
Seongnam-si, Gyeonggi-do 13211 Republic of Korea

Prepared by

UL Korea, Ltd. Suwon Laboratory
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IAS ACCREDITED
Testing Laboratory
TL-637

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	06/14/21	Initial issue	Hyerim Song
V2	03/25/22	added Variant Model	Hyerim Song
V3	08/10/23	Changed company name and manufacturer name	Hyerim Song

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME :	Xperix Inc.
MANUFACTURER NAME :	Xperix Inc. 1207, 37, Sagimakgol-ro 62beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do 13211 Republic of Korea
EUT DESCRIPTION :	RealScan-G10
MODEL NUMBER :	RS-G10
VARIANT MODEL :	RealScan-G10i, RS-G10i
MODEL DIFFIERENCE	RealScan-G10i and RS-G10i are no technical difference from basic model only except for model number because of marketing purposes.
SERIAL NUMBER :	N/A
DATE TESTED :	Jun. 01 ~ Jun. 02, 2021

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APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC PART 15 SUBPART B	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:

Anthony Kim
Senior Laboratory Engineer
UL Korea, Ltd

Tested By:

Hyerim Song
Laboratory Engineer
UL Korea, Ltd.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2014, FCC CFR 47 Part 2, FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro
☐ Chamber 1
☐ Chamber 2
☐ Chamber 3
☒ 10m Chamber
☒ Shield room 5
☐ Shield room 6

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New-1.pdf

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement uncertainty
Conducted Emission (0.15 to 30 MHz Below)	2.87 dB, Note 1
Radiated emission (1 GHz Below)	4.40 dB, Note 1
Radiated emission (1 GHz Above)	4.66 dB, Note 1
Note 1: Measurement uncertainty is calculated in according with CISPR 16-4-2 (2011-06). The measurement uncertainty is given with a confidence of 95 % with the coverage factor, *k*=2.	

Uncertainty figures are valid to a confidence level of 95%, k=2.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Accuracy Method specified in Procedure 2, Clause 4.4.3 in IEC Guide 115:2007.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

GENERAL INFORMATION

Type of device	RealScan-G10
EUT Power	DC 5 V / 500 mA

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5.2. PRELIMINARY TEST CONFIGURATIONS

The system was configured for testing in a typical fashion that a customer would normally use.
No modifications were made during testing.

5.3. MODE(S) OF OPERATION INVESTIGATED

Mode	Description
Operating Mode	The EUT was tested in continuous operating mode.

5.4. MODIFICATIONS

No modifications were made during testing.

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5.5. RESULTS CONCLUSION

Test requirements	Applied standards	Results
Conducted emission	FCC Part15 Subpart B	Comply
Radiated emission (Below 1 GHz)	FCC Part15 Subpart B	Comply
Radiated emission (Above 1 GHz)	FCC Part15 Subpart B	Comply
Note : N/A		

5.6. TEST ENVIRONMENT AND CONDITIONS

Test requirements	Test Site	Test date (YY-MM-DD)	Temp (°C)	Humidity (% R.H)
Conducted emission	Shield room 5	21-06-02	24.6 ± 1	36.6 ± 1
Radiated emission (30 MHz ~ 1 GHz)	10 m Chamber	21-06-01	24.2 ± 1	36.1 ± 1
Radiated emission (Above 1 GHz)	10 m Chamber	21-06-01	24.2 ± 1	36.1 ± 1
Note : N/A				

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5.7. DETAILS OF TESTED SYSTEM

SUPPORT EQUIPMENT & PERIPHERALS

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID/SDoC
RealScan-G10	Xperix Inc.	RS-G10	N/A	SDoC
Notebook PC	HP	15-cs1010TU	N/A	SDoC
Notebook PC Adapter	LITE ON TECHNOLOGY(CHANGZHOU) CO.,LTD.	HSTNN-LA40	N/A	SDoC

I/O CABLES

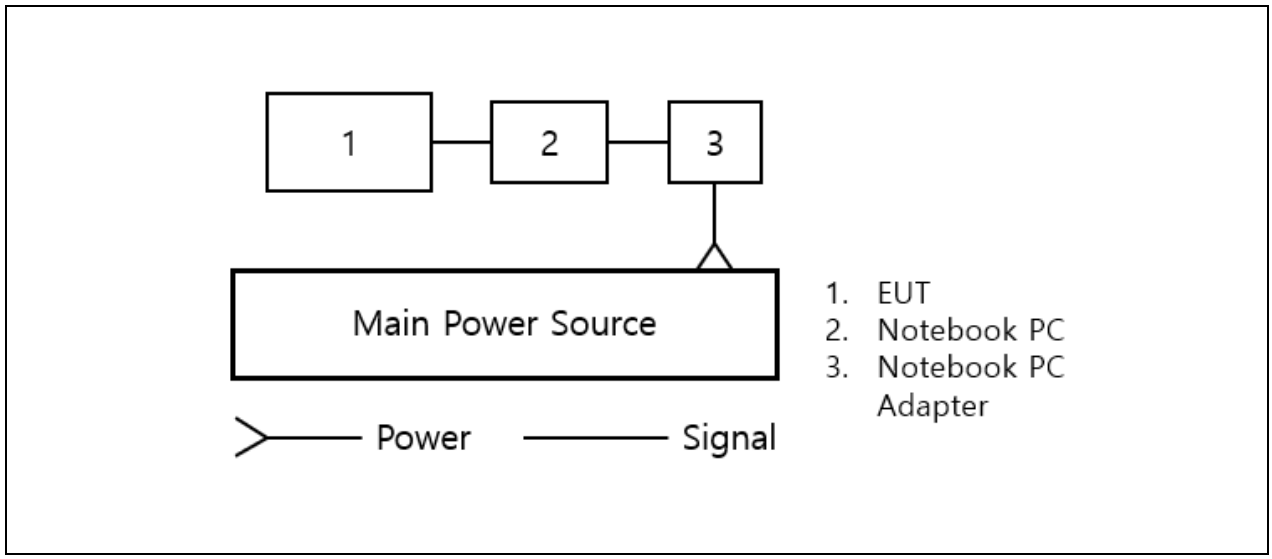
I/O Cable List							
Cable No	Start		End		Cable		
	Name	I/O Port	Name	I/O Port	Cable Length (m)	Shield	With Ferrite
1	EUT	USB	Notebook PC	USB	1.2	Shield	-
2	Notebook PC	DC In	AC Adapter	DC Out	1.2	Shield	-
3	Notebook PC Adapter	AC In	AC Outlet	AC Out	2.0	Unshield	-

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TEST SETUP

The EUT was tested in continuous operating mode.

TEST SETUP DIAGRAM



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6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	**Manufacturer**	**Model**	**S/N**	**Cal Due**
EMI Test Receiver	R&S	ESW44	101848	2021.08.03
EMI Test Receiver	R&S	ESR3	102592	2021.08.06
Open Switch and Control Platform	R&S	OSP220	101456	N/A
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	1241	2021.09.30
HORN ANTENNA	ETS-LINDGREN	3117	227048	2021.09.18
Pre-Amplifier	R&S	SCU08F2	100725	2021.08.03
PRE-AMPLIFIER	R&S	SCU18F	100726	2021.08.03
LISN	R&S	ENV216	102478	2021.08.07

Note: The testing was performed in accordance with ANSI C63.4-2014.

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7. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4: 2014
The radiated disturbance was measured and set-up was made accordance with ANSI C63.4.
If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the 10m semi-anechoic chamber.
Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.
Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.
The measurement was made in both the vertical and horizontal polarization, and the maximum
value is presented in the report.
For below 1 ㎓ frequency range, Quasi-Peak detector with 120 ㎑ RBW was used.
Also Peak and Average detector with 1 ㎒ RBW were used for above 1 ㎓ frequency range.
For further description of the configuration refer to the picture of the test set-up.

LIMIT

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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(1) Limit for Radiated Emission below 1 000 MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBµV/m)	Quasi-peak (dBµV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54
Note 1 The lower limit shall apply at the transition frequency. Note 2 Additional provisions may be required for cases where interference occurs. Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.		
Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBµV/m)	Quasi-peak (dBµV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000 MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBµV/m)	Average (dBµV/m)	Peak (dBµV/m)	Average (dBµV/m)
1 to 40	80	60	74	54

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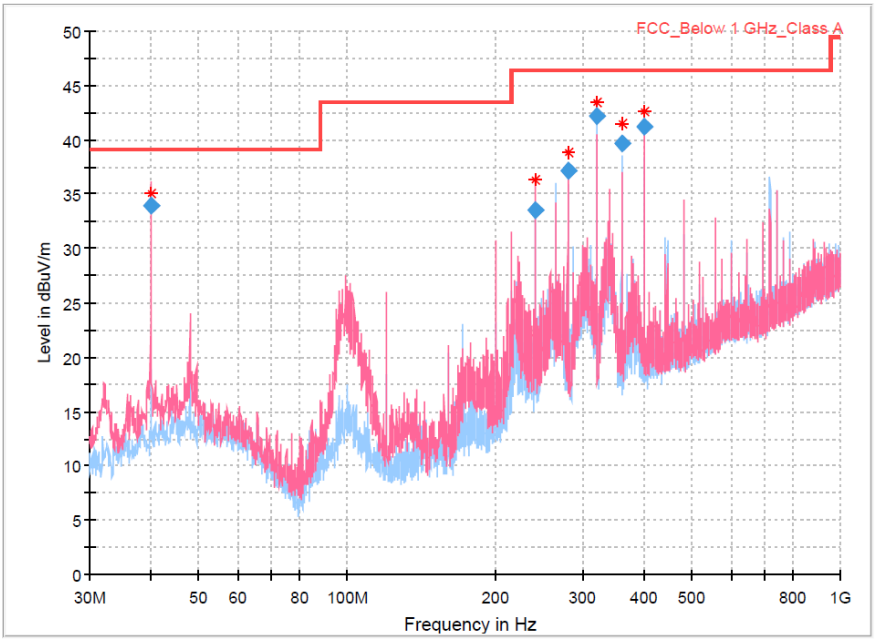
RESULTS

RADIATED EMISSIONS 30 TO 1000 MHz

[Below 1 GHz]

Common Information

Test Description: 4789903109
Comment1: 120 V 60 Hz



Final Result

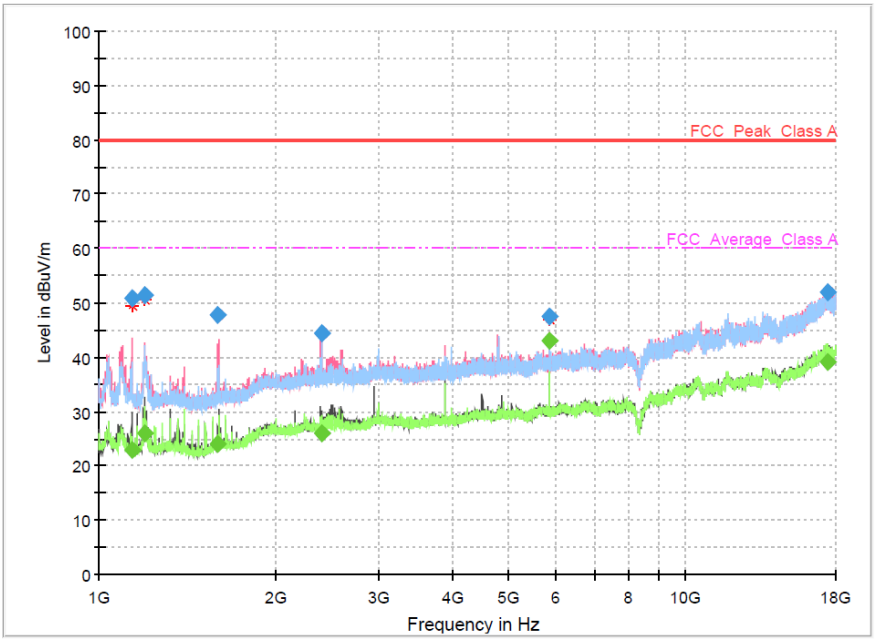
Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.989444	33.88	39.10	5.22	256.0	V	220.0	-21.2
239.985000	33.49	46.40	12.91	100.0	V	327.0	-20.0
279.970556	37.11	46.40	9.29	100.0	V	49.0	-19.4
319.996111	42.20	46.40	4.20	295.0	H	37.0	-18.4
359.995556	39.66	46.40	6.74	278.0	H	188.0	-17.4
399.981111	41.21	46.40	5.19	100.0	V	92.0	-16.1

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[Above 1 GHz]

Common Information

Test Description: 4789903109
Comment1: 120 V 60 Hz



Final Result PK+

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1139.950000	50.82	80.00	29.18	150.0	V	342.0	-9.7
1199.725000	51.51	80.00	28.49	410.0	V	9.0	-9.6
1595.875000	47.81	80.00	32.19	392.0	V	298.0	-8.1
2392.725000	44.39	80.00	35.61	101.0	V	223.0	-2.8
5864.750000	47.49	80.00	32.51	397.0	V	26.0	6.3
17458.100000	51.88	80.00	28.12	366.0	V	91.0	22.2

Final Result CAV

Frequency (MHz)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1139.950000	22.92	60.00	37.08	150.0	V	342.0	-9.7
1199.725000	26.01	60.00	33.99	410.0	V	9.0	-9.6
1595.875000	24.15	60.00	35.85	392.0	V	298.0	-8.1
2392.725000	25.87	60.00	34.13	101.0	V	223.0	-2.8
5864.750000	43.02	60.00	16.98	397.0	V	26.0	6.3
17458.100000	39.06	60.00	20.94	366.0	V	91.0	22.2

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7.2. AC MAINS LINE CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4: 2014
If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.
Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.
Connect the EUT's power source lines to the appropriate power mains / peripherals through the
LISN. All the other peripherals are connected to the 2nd LISN, if any.
Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.
The measuring port of the LISN for EUT was connected to spectrum analyzer.
Using conducted emission test software, the emissions were scanned with peak detector mode.
After scanning over the frequency range, suspected emissions were selected to perform final
measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.
By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.
For further description of the configuration refer to the picture of the test set-up

LIMIT

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies. Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

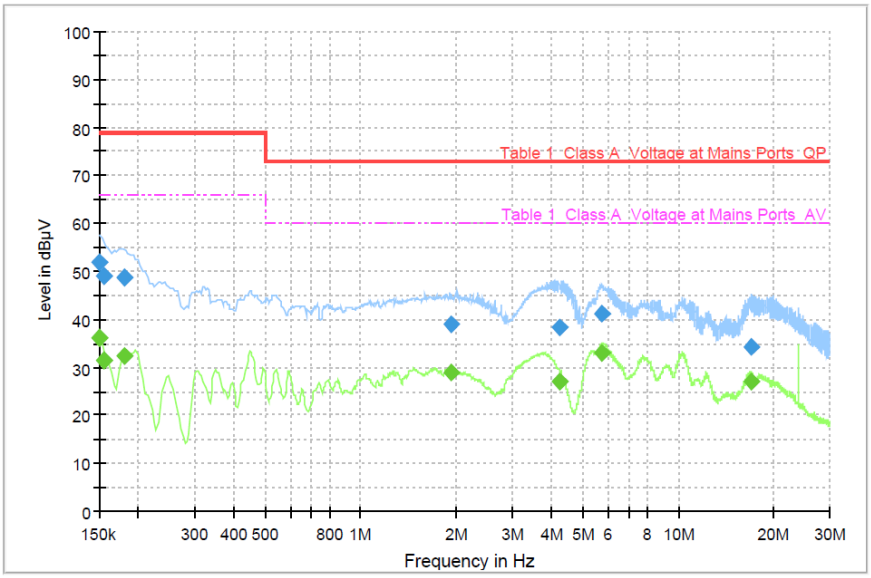
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RESULTS

[L]

Common Information

Test Description	4789903109
Comment1:	120 V 60 Hz
Comment2:	L1



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	51.78	79.00	27.22	L1	ON	9.8
0.155500	49.21	79.00	29.79	L1	ON	9.8
0.180500	48.60	79.00	30.40	L1	ON	10.0
1.918000	39.07	73.00	33.93	L1	ON	9.8
4.215000	38.52	73.00	34.48	L1	ON	9.9
5.759833	41.13	73.00	31.87	L1	ON	9.9
17.023333	34.17	73.00	38.83	L1	ON	10.1

Final_Result_CAV

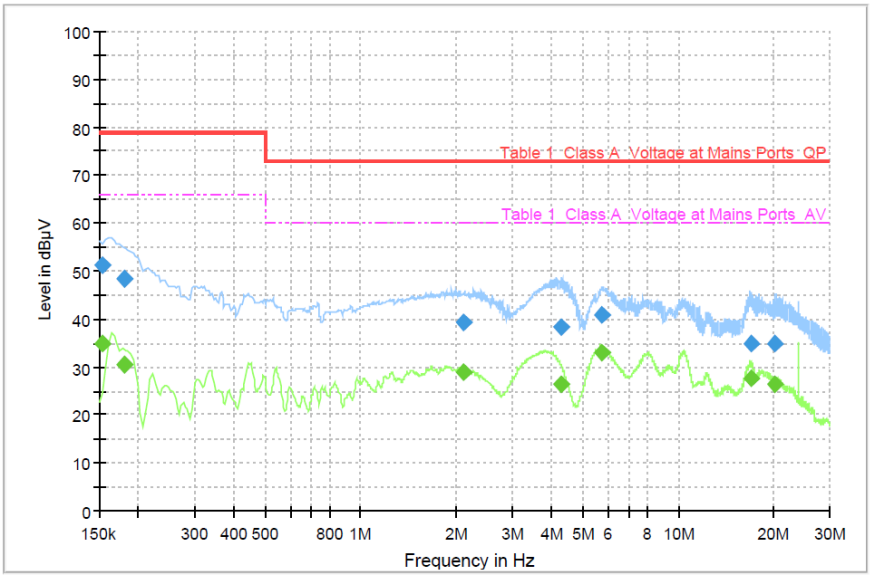
Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	36.10	66.00	29.90	L1	ON	9.8
0.155500	31.33	66.00	34.67	L1	ON	9.8
0.180500	32.23	66.00	33.77	L1	ON	10.0
1.918000	29.07	60.00	30.93	L1	ON	9.8
4.215000	27.13	60.00	32.87	L1	ON	9.9
5.759833	32.93	60.00	27.07	L1	ON	9.9
17.023333	26.91	60.00	33.09	L1	ON	10.1

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[N]

Common Information

Test Description	4789903109
Comment1:	120 V 60 Hz
Comment2:	N



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000	51.26	79.00	27.74	N	ON	9.8
0.180500	48.41	79.00	30.59	N	ON	10.0
2.112750	39.30	73.00	33.70	N	ON	9.7
4.277750	38.22	73.00	34.78	N	ON	9.9
5.750667	40.84	73.00	32.16	N	ON	9.9
16.922667	34.88	73.00	38.12	N	ON	10.1
20.060500	34.90	73.00	38.10	N	ON	10.1

Final_Result_CAV

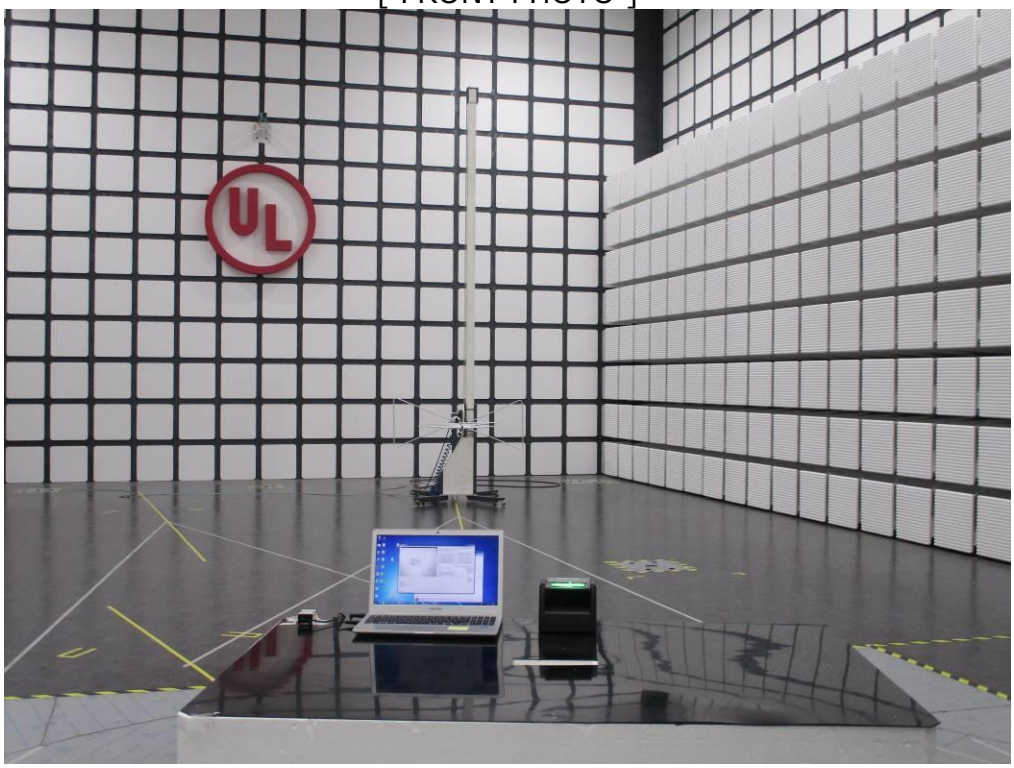
Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000	34.89	66.00	31.11	N	ON	9.8
0.180500	30.38	66.00	35.62	N	ON	10.0
2.112750	28.80	60.00	31.20	N	ON	9.7
4.277750	26.49	60.00	33.51	N	ON	9.9
5.750667	32.90	60.00	27.10	N	ON	9.9
16.922667	27.68	60.00	32.32	N	ON	10.1
20.060500	26.46	60.00	33.54	N	ON	10.1

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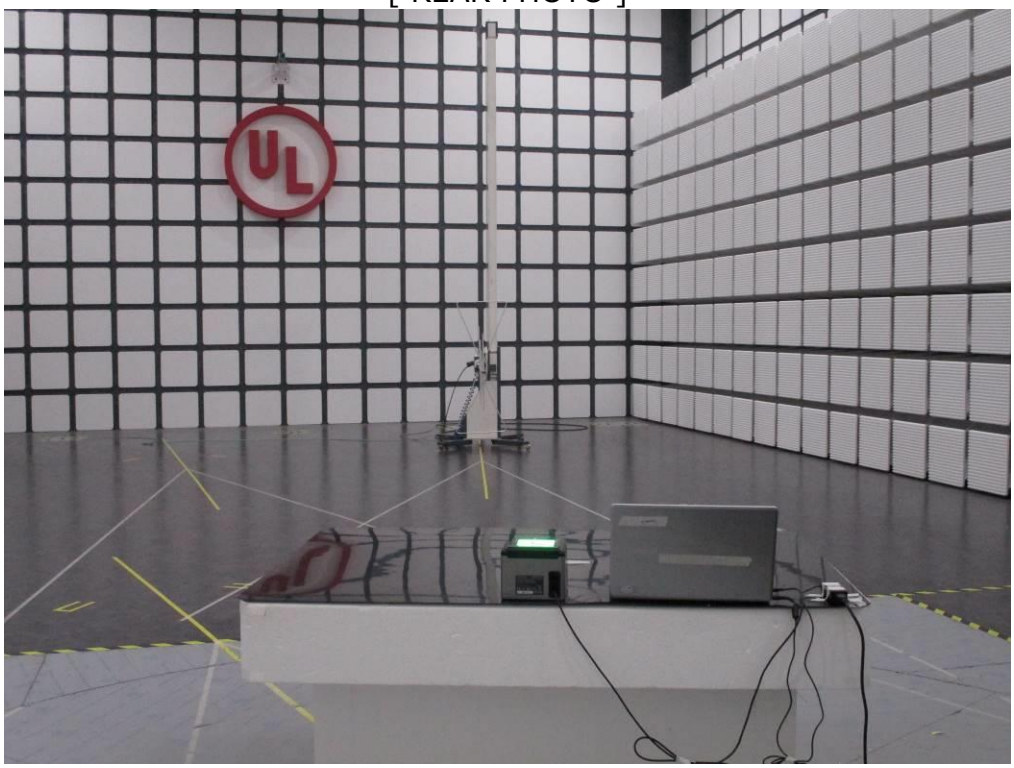
8. SETUP PHOTOS

8.1. RADIATED EMISSIONS EMISSIONS (Below 1 GHz)

[FRONT PHOTO]



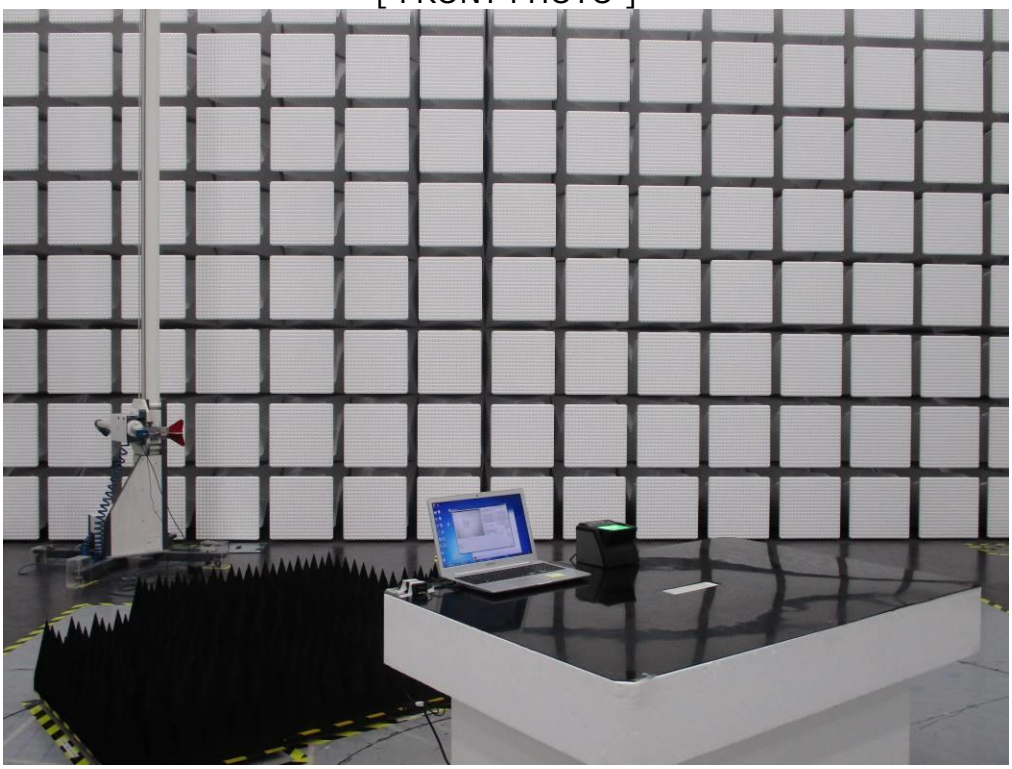
[REAR PHOTO]



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8.2 RADIATED EMISSIONS EMISSIONS (Above 1 GHz)

[FRONT PHOTO]



[REAR PHOTO]



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8.3 POWERLINE CONDUCTED EMISSIONS

[FRONT PHOTO]



[REAR PHOTO]



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9. EUT PHOTOS

[FRONT]



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[INSIDE]



[INSIDE(Left)]



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[INSIDE(Right)]



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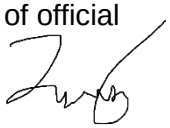
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APPENDIX A Signature of an official of the responsible party

To comply with the following requirements, the official of the responsible party gives a signature:

FCC §2.938 Retention of records
(b) For equipment subject to Supplier's Declaration of Conformity, the responsible party shall, in addition to the requirements in paragraph (a) of this section, maintain a record of the measurements made on an appropriate test site that demonstrates compliance with the applicable regulations in this chapter. The record shall:
(10) Contain, on the test report, the signature of the individual responsible for testing the product along with the name and signature of an official of the responsible party, as designated in §2.909;

* Where old rule is applied, refer to the applicable sections of FCC.

Printed name of official	Signature of official
Byoung Joon Jang	
Address **1207, Star Tower, 37 Sagimakgol-ro 62beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea**	Date **2023-08-10**
Telephone number	Email address of official
+82-10-3161-3686	**bjjang@suprema.co.kr**

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