

TEST REPORT

This laboratory is accredited by National Radio Research Agency Laboratory and National Voluntary Laboratory Accreditation Program.

The tests reported herein have been performed in accordance with its terms of accreditation.

Test Report No. : LR500112510H
Issue Date : October 23, 2025
Applied Standard : FCC Part 15, Subpart B & ICES-003 (Issue.7)
Trade Name : Hanwha Vision Co., Ltd
Equipment Name : VMS(Video Management Software) Appliance
Model Name : BRB-X1610SE
Additional Model Name : -
Serial Number : Identification

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory.

This test report is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.

Revision history

Revision	Date of issue	Test report No.	Description
0	23.10.2025	LR500112510H	Initial

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LTA Certification

Applicant

Company name : Hanwha Vision Co., Ltd
Address : 6, Pangyo-ro 319 Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488, KOREA
Telephone / Facsimile : +82-10-2221-6513 / +82-70-7147-8367

Factory #1

Company name : HANWHA VISION VIETNAM COMPANY LIMITED
Address : Lot O-2, Que Vo Industrial Zone Extended Area, Nam Son Ward, Bac Ninh Province, Vietnam

Factory #2

Company name : D-TECH CO.,LTD.
Address : 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)

Equipment Under Test (EUT)

Equipment Name : VMS(Video Management Software) Appliance
Model Name : BRB-X1610SE
Additional Model Name : -
Serial number : Identification
Intended environment : Residential area
Date of receipt : September 19, 2025
EUT condition : Pre-production,
POE #1 to #8 of EUT is the same port, so it is tested only in POE #1.
Test Mode : Operating mode
Interface ports : DP, HDMI, USB#1~#4, NETWORK #1~#2, POE #1 ~ #8, AC IN, AUX OUT, GND
Power rating : AC 120 V, 60 Hz
Test Voltage : AC 120 V, 60 Hz

Model Description

- NONE.

LTA Certification –cont.-

Test Performed

Test started & completed : October 14, 2025
Location : LTA Co., Ltd.

Test Specification

Purpose of the test : Compliance test to the following standard
Applied standard : FCC Part 15, Subpart B & ICES-003 (Issue.7)
Classification : Class A
Deviations from Standard Test Method : N/A

Test Results

Measurement	Results*	Test method
Conducted Emissions	Complies	ANSI C 63.4 ICES-003 (Issue.7)
Radiated Emissions	Complies	ANSI C 63.4 ICES-003 (Issue.7)

* : The compliance statement is based on nominal value only.

Modification performed by the lab.:

- Complementary part: Shielding tape is applied to the
Inside the EUT: Shielding tape (Model name: N/A, Manufacturer: N/A)
and the manufacturer directly takes measures to suppress noise by using Shielding tape on the display area of the photo.

Laboratory's Certificate

Project number : 250919-1429
Issue date : October 23, 2025

This test report is issued under the authority of:

The test was supervised by:



Young Kyu Shin, Technical Manager



Hyun Young Ahn, Test Engineer

The results in this report apply only to the sample(s) tested.

It is not allowed to copy this report even partly without the allowance of the test laboratory.

General information's

Purpose

This document is based on the Electromagnetic Interference (EMI) tests performed on the “**BRB-X1610SE**”. The measurements were performed according to the measurement procedure described in ICES-003 and ANSI C 63.4. The tests were carried out in order to confirm whether the electromagnetic emissions from the EUT (Equipment Under Test), are within the Class A limits defined in ICES-003 and FCC Part 15.

Test Performed

Company name : **LTA Co., Ltd.**
Address : 4, Songju-ro 236beon-gil, Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17159, Korea
Telephone : +82-31-323-6008
Facsimile : +82-31-323-6010

Measurement uncertainty

Conducted Emissions (0.15 to 30 MHz) : ± 2.81 [dB] (k=2)
Radiated Emissions (30 to 1,000 MHz) : H : ± 4.62 [dB] (k=2) V : ± 4.61 [dB] (k=2)
(1 GHz to 6 GHz) : H : ± 5.73 [dB] (k=2) V : ± 5.72 [dB] (k=2)
(6 GHz to 18 GHz) : H : ± 5.93 [dB] (k=2) V : ± 5.76 [dB] (k=2)

The coverage factor k=2 yields approx. a 95% level of confidence for near-normal distribution typical of most measurement results.

Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
RRA	KOREA		-	RRA accredited Lab.
	U.S.A	KR0049	2027-02-27	
	CANADA		2026-08-05	
VCCI	JAPAN	C-14948	2026-09-10	VCCI registration
		T-12416	2026-09-10	
		R-14483	2026-10-15	
		G-10847	2027-12-13	
KOLAS	KOREA	KT551	2029-10-12	KOLAS accredited Lab.

1- Brief Information

1-1 Test Summary

Parameter	Applied Standard	Status (note 1)
I. Emission		
Conducted Emissions	FCC Part 15.107 / ICES-003 Clause 3.2.1	C
Radiated Emissions	FCC Part 15.109 / ICES-003 Clause 3.2.2	C
Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable * The data in this test report are traceable to the national or international standards.		

Frequency range to be scanned:

0.15 MHz - 30 MHz as conducted measurement

30 MHz to 5th harmonic of the highest frequency or 40 GHz, whichever is lower as radiated measurement.

Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz to 30 MHz and 120 kHz in the frequency 30 MHz to 1,000 MHz.

Measured by the Peak function Bandwidth is 1 MHz in the frequency 1 GHz to 40 GHz.

A sample calculation:

COR. F (correction factor)= Antenna factor + Cable loss- Amp.gain- Distance correction

Emission Level= meter reading + COR.F

1-2 Test mode of the EUT

The tests have been conducted with the following operational mode(s) of the EUT.

Operating mode

1-3 Modification

- Supplementary area: gasket tape inside the device to be tested / Material: gasket tape (model name: N/A, manufacturer: N/A number: 1EA) / Use gasket tape directly to supplement noise suppression on the marked area of the picture.

1-4 List of EUT and ACCESSORY

EUT				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
VMS(Video Management Software) Appliance	BRB-X3210S1E	N/A	HANWHA VISION VIETNAM COMPANY LIMITED D-TECH CO.,LTD.	EUT
Keyboard	K8862	N/A	N/A	EUT
Mouse	MOKJUO	N/A	Primax Electronics Ltd.	EUT
ACCESSORY				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
Monitor #1	S22E450F	N/A	SAMSUNG	-
Monitor #2	24BK550Y	N/A	LG	-
PoE Injector	PT-PSE109GBRO-AH-S	N/A	Dongguan PROCET Network Technology Co.,Ltd	-
Notebook Computer	ELITE BOOK	N/A	HP	-
POE	SW1600-mini	SW1600-mini 73N00673	ipTIME	-
Camera #1	XND-8020RP	N/A	HANWHA TECHWIN CO.,LTD.	-
Camera #2	LND-6011R	ZNDE6V4M 900007T	HANWHA TECHWIN CO.,LTD.	-
USB Memory	N/A	N/A	Sandisk	2 EA
HEADSET	N/A	N/A	SAMSUNG	-

1-5 Cable List

Cable List					
From		To		Length (m)	Shield
Type	I/O Port	Type	I/O Port		
EUT	AC IN	AC POWER SOURCE	AC OUT	1.0	NO
	DP	Monitor #2	DP	1.1	YES
	HDMI	Monitor #1	HDMI	1.2	YES
	NETWORK #1	PoE Injector	LAN DATA	3.0	NO
	NETWORK #2	Notebook Computer	LAN	3.0	NO
	POE #1	Camera #1	LAN	3.0	NO
	POE #2 ~ #8	POE	LAN #1 ~ #7	1.0	NO
	USB #1	EUT (Keyboard)	USB	1.0	-
	USB #2	EUT (Mouse)	USB	0.9	-
	USB #3	USB Memory#1	USB	-	-
	USB #4	USB Memory#2	USB	-	-
	AUX OUT	HEADSET	AUX IN	1.3	NO
	GND	GND	-	1.2	YES

2- Test Site Description

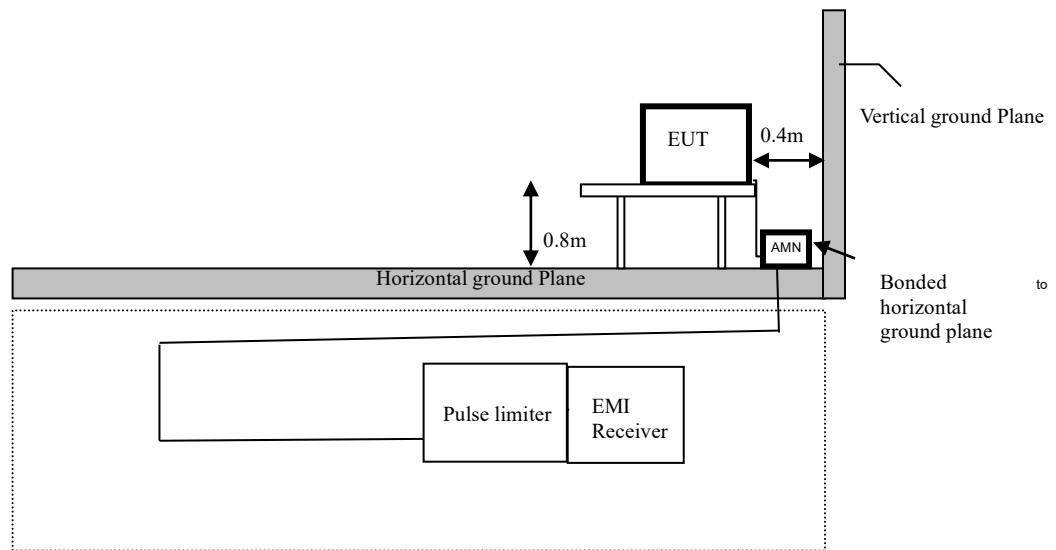
1-Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 1 year facility check for the facilities and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4.

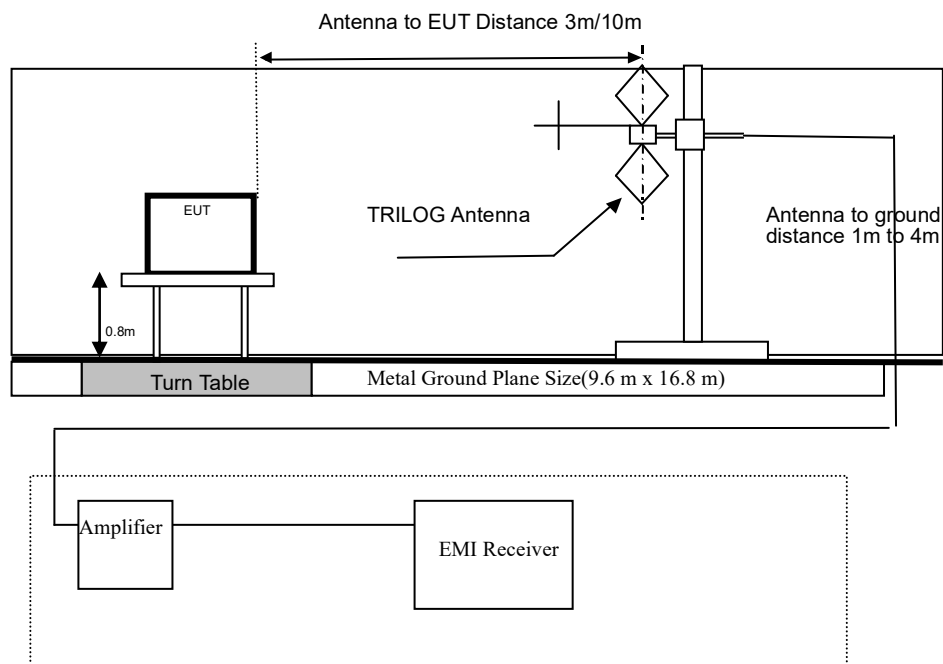
The NSA measurement of the 10 m chamber was performed on January 13, 2025 according to ANSI C 63.4.

The SVSWR measurement of the 10 m chamber was performed on October 10, 2025 according to ANSI C 63.4.

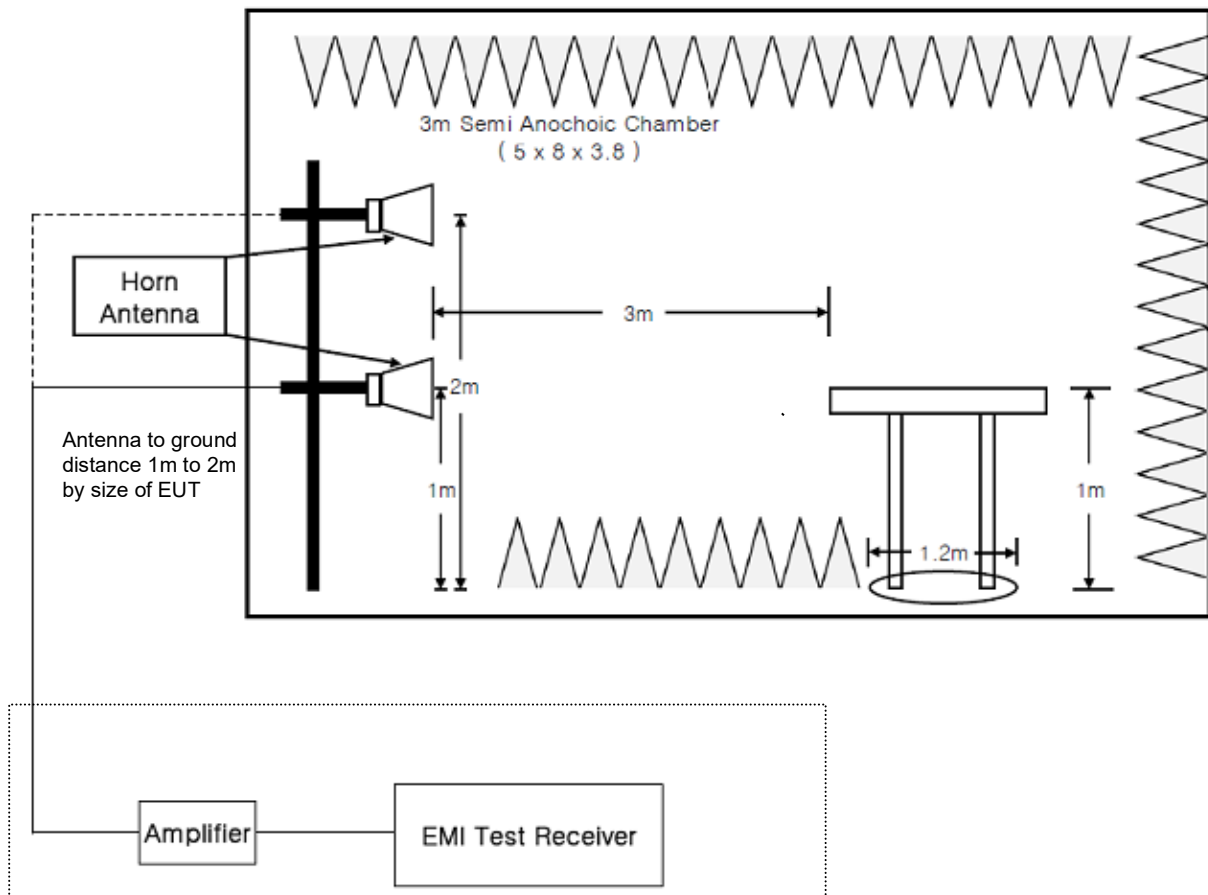
2-1 Conducted Emissions



2-2 Radiated Emissions – Below 1 GHz



2-3 Radiated Emissions – Above 1 GHz



3- Test Procedure

3-1 Conducted Emissions

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance ($50\ \Omega$ / $50\ \mu\text{H}$) as defined in ANSI C 63.4, shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector.
(Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
 - searching the maximum frequency point of the disturbance wave in each frequency range.
 - reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
 - calculating the measurement result with the following formula or equation.
(Result = Reading + Cor.F.(LISN Factor + Cable Loss + Pulse Limiter)
(ex) = $13.23\ \text{dB}\mu\text{V} + (9.63\ \text{dB} + 0.01\ \text{dB} + 9.86\ \text{dB})$
 = $32.73\ \text{dB}\mu\text{V}$

3-2 Radiated Emissions – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4 and the distance between the EUT and the antenna is adjusted 3 m or 10 m.
 - The turntable can be rotated 360 degrees.
 - The antenna can be adjusted between 1 m and 4 m in height above the ground.
 - The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
 - Measurements are carried out using an EMI receiver with quasi-peak detectors (120 kHz bandwidth).
 - Refer to the list of test equipment used for the test.
 - The TRILOG antenna are used as wideband antenna.
 - The TRILOG antenna is used in the frequency range of 30 MHz to 1 000 MHz.
 - A variable attenuator is used for verifying amplifier's linearity.
 - Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
 - Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
 - Measurement is carried out by a LTA operator as manual operation.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m.
- reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:
- (Result = Reading + Cor.F (antenna factor + cable loss – PreAmp Gain)
- (ex) = 50.6 dBμV/m + (11.08 dB(1/m) + 1.31 dB - 27.32 dB)
- = 35.67 dBμV/m

3-3 Radiated Emissions – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- The HORN antenna are used as wideband antenna.
- The HORN antenna is used in the frequency range of 1 GHz to 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 7-9) about details of the EUT and configuration of the cables.
- Measurement is carried out by a LTA operator as manual operation.
 - searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
 - setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m
 - reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4.
 - measuring to vertical and horizontal polarization.
 - calculating the measurement result with the following formula or equation:
(Result = Reading + Cor.F (antenna factor + cable loss – PreAmp Gain)
(ex) = 35.9 dBμV/m + (23.92 dB(1/m) + 7.01 dB - 38.33 dB)
 = 28.5 dBμV/m

4- List of Equipment Used For the Tests

Conducted Emissions

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESR	Rohde & Schwarz	101499	2026.03.05	1 year
☒	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100710	2026.03.05	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	100378	2026.08.18	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	101468	2026.08.18	1 year
☒	LISN(main)	ENV216	Rohde & Schwarz	102872	2026.08.18	1 year
☒	LISN(sub)	ENV216	Rohde & Schwarz	101222	2026.08.18	1 year
☒	TEST PROGRAM	e3_ce 20181212a (V9)	AUDIX	-	-	-

Radiated Emissions – Below 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESCI7	Rohde & Schwarz	100772	2026.08.18	1 year
☒	Amplifier	310N	SONOMA INSTRUMENT	240504	2026.03.11	1 year
☒	BILOG Antenna	VULB 9168	SCHWARZBECK	749	2027.03.13	2 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

Radiated Emissions – Above 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESCI7	Rohde & Schwarz	100772	2026.08.18	1 year
☒	EMI TEST Receiver	ESU	Rohde & Schwarz	100092	2026.08.18	1 year
☒	Amplifier	8449B	Agilent	3008A02126	2026.03.05	1 year
☒	HORN ANTENNA	3115	ETS	114105	2026.03.24	1 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

5- EMISSION

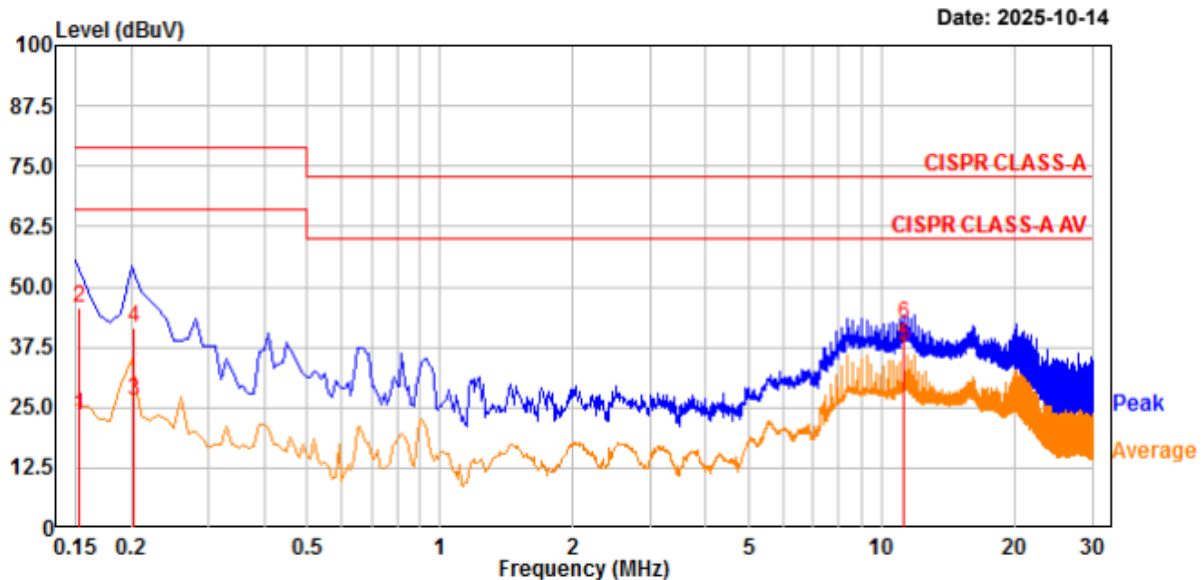
5-1 Conducted Emissions

(LINE)



4, Songjuro 236 Beon-gil, Yangji-myeon
Cheoin-gu, Youngin-si, Gyeonggi-do
449-822 Korea
Tel:+82-31-3236008,9
Fax:+82-31-3236010

Project No.	: 250919-1429	Phase	: Line
Test Mode	: Operating	Test Power	: AC 120 V / 60 Hz
Temp./ Humi.	: 24 'C / 54 % R.H.	Test Engineer	: AHN H Y



No.	Freq MHz	RD QP dBμV	RD AV dBμV	C.F dB	Result QP dBμV	Result AV dBμV	Limit QP dBμV	Limit AV dBμV	Margin QP dB	Margin AV dB	Phase
2.	0.153	26.10	3.96	19.50	45.60	23.46	79.00	66.00	33.40	42.54	Line
4.	0.203	22.10	6.83	19.50	41.60	26.33	79.00	66.00	37.40	39.67	Line
6.	11.225	22.41	17.97	19.87	42.28	37.84	73.00	60.00	30.72	22.16	Line

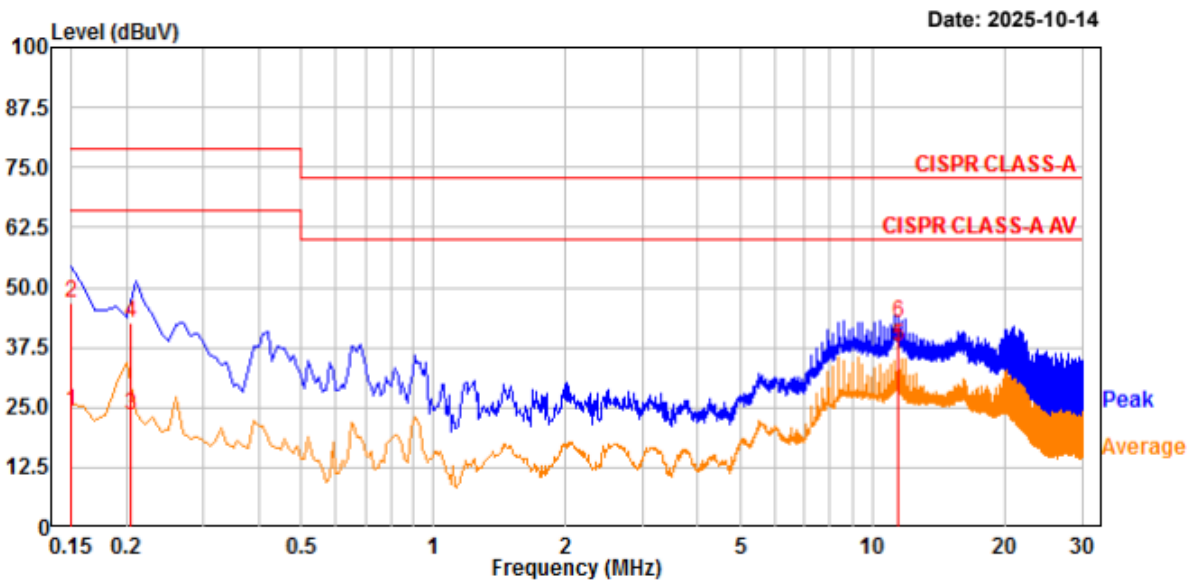
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

(NEUTRAL)



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Project No.	: 250919-1429	Phase	: Neutral
Test Mode	: Operating	Test Power	: AC 120 V / 60 Hz
Temp./ Humi.	: 24 °C / 54 % R.H.	Test Engineer	: AHN H Y



No.	Freq MHz	RD QP dBμV	RD AV dBμV	C.F dB	Result QP dBμV	Result AV dBμV	Limit QP dBμV	Limit AV dBμV	Margin QP dB	Margin AV dB	Phase
2.	0.150	27.20	4.84	19.46	46.66	24.30	79.00	66.00	32.34	41.70	neutral
4.	0.205	23.17	4.01	19.47	42.64	23.48	79.00	66.00	36.36	42.52	neutral
6.	11.444	22.85	17.99	19.86	42.71	37.85	73.00	60.00	30.29	22.15	neutral

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

5-2 Radiated Emissions (FCC)

(Below 1 GHz) / H



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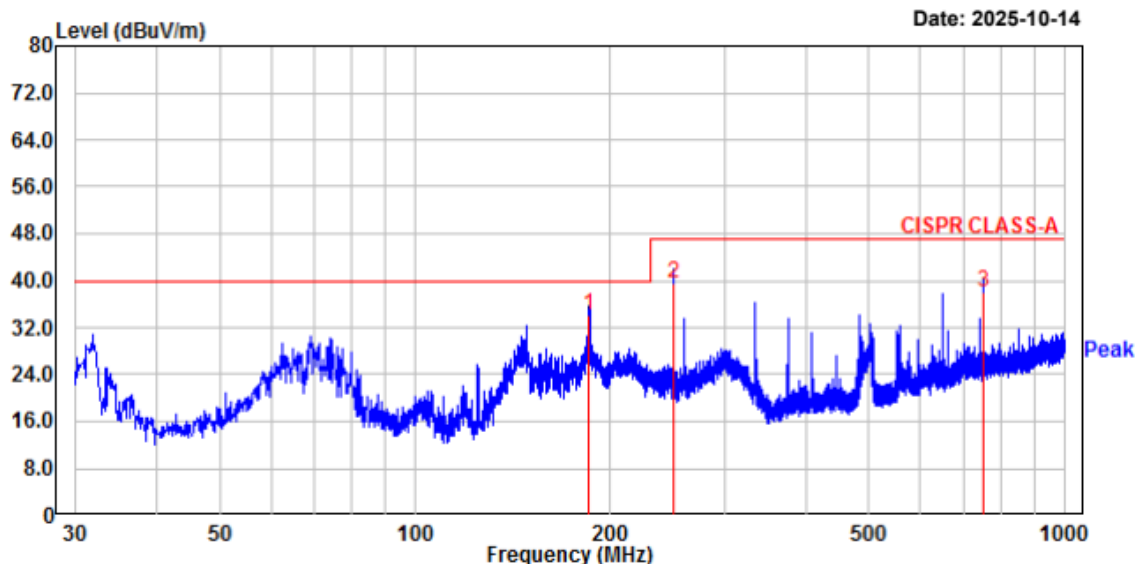
Project No. : 250919-1429

Temp/Humi: 23 'C / 51 % R.H.

Test Mode : Operating

Tested by: AHN H Y

Power : AC 120 V / 60 Hz



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	185.56	45.16	-11.13	34.03	40.00	5.97	155	396	horizontal
2.	250.07	49.52	-9.83	39.69	47.00	7.31	400	182	horizontal
3.	749.98	35.50	2.63	38.13	47.00	8.87	111	51	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

(Below 1 GHz) / V



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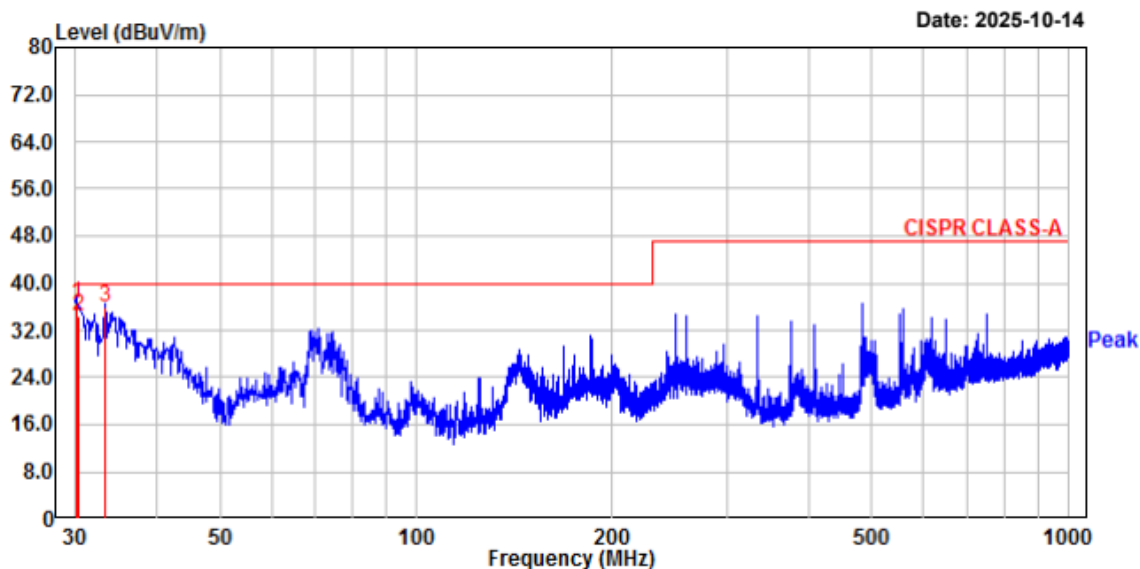
Project No. : 250919-1429

Temp/Humi: 23 'C / 51 % R.H.

Test Mode : Operating

Tested by: AHN H Y

Power : AC 120 V / 60 Hz



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	30.12	47.90	-11.50	36.40	40.00	3.60	158	49	vertical
2.	30.36	45.81	-11.46	34.35	40.00	5.65	169	244	vertical
3.	33.40	47.16	-11.38	35.78	40.00	4.22	136	220	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions (IC)

(Below 1 GHz) / H



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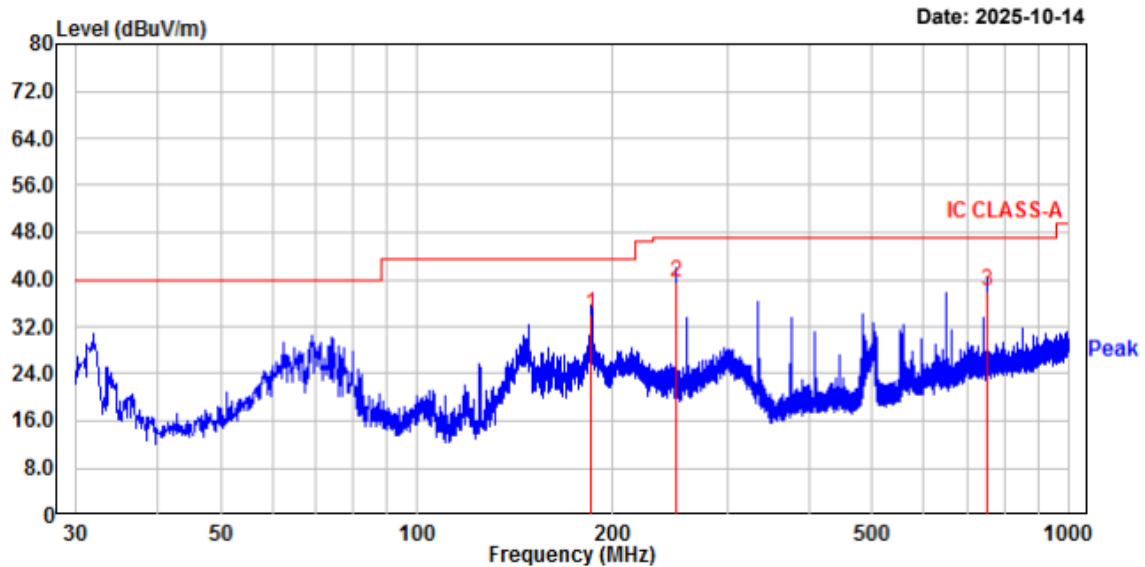
Project No. : 250919-1429

Temp/Humi: 23 'C / 51 % R.H.

Test Mode : Operating

Tested by: AHN H Y

Power : AC 120 V / 60 Hz



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	185.56	45.16	-11.13	34.03	43.50	9.47	155	396	horizontal
2.	250.07	49.52	-9.83	39.69	47.00	7.31	400	182	horizontal
3.	749.98	35.50	2.63	38.13	47.00	8.87	111	51	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

(Below 1 GHz) / V



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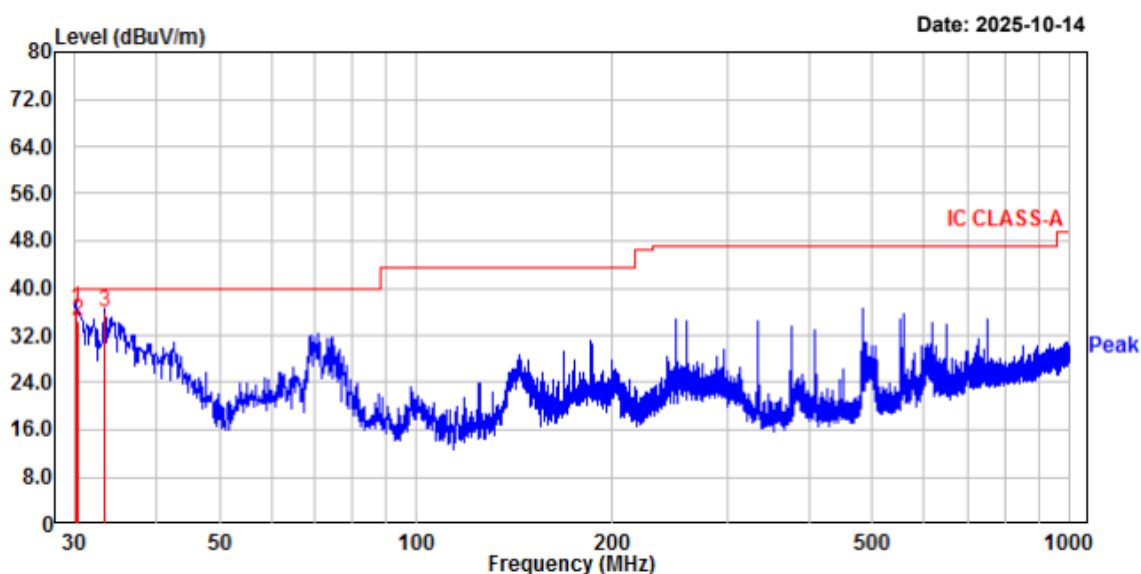
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Test Mode : Operating

Tested by: AHN H Y

Power : AC 120 V / 60 Hz



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	30.12	47.90	-11.50	36.40	40.00	3.60	158	49	vertical
2.	30.36	45.81	-11.46	34.35	40.00	5.65	169	244	vertical
3.	33.40	47.16	-11.38	35.78	40.00	4.22	136	220	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

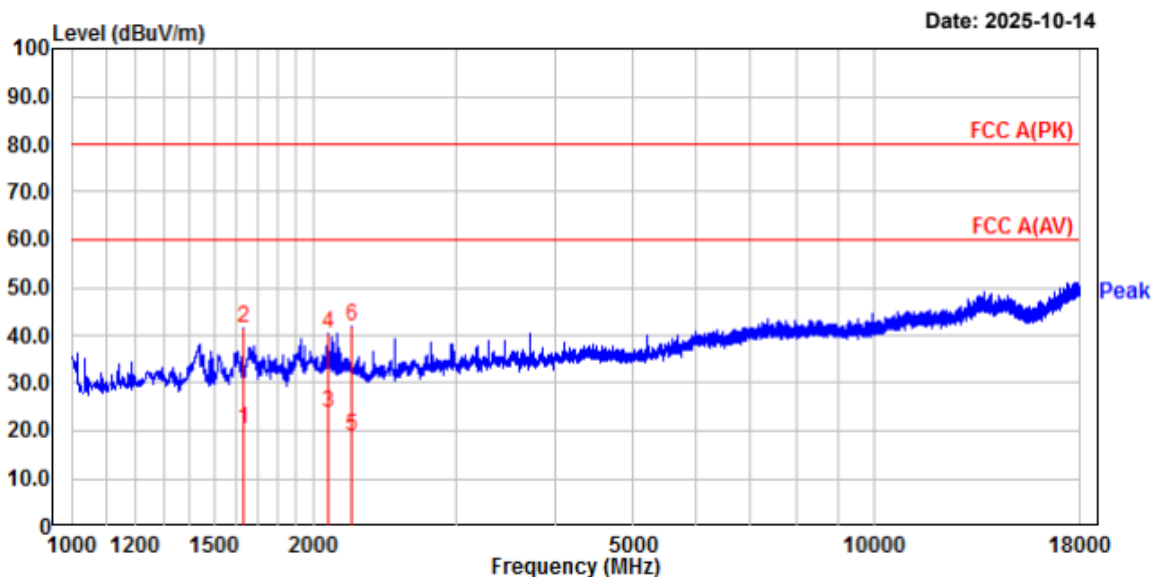
Radiated Emissions (FCC / IC)

(Above 1 GHz) / H



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www.ltalab.com

Project No. : 250919-1429	Temp/Humi: 23 'C / 51 % R.H.
Test Mode : Operating	Tested by: AHN H Y
Power : AC 120 V / 60 Hz	Measure distance : 3.5 m



No.	Freq MHz	RD		C.F	Result		Limit		Margin		Height	Angle	Polarity
		PK dBuV	AV dBuV		PK dBuV	AV dBuV	PK dBuV	AV dBuV	PK dB	AV dB			
2.	1633.25	49.54	28.51	-8.01	41.53	20.50	80.00	60.00	38.47	39.50	250	191	horizontal
4.	2085.88	44.07	27.40	-3.62	40.45	23.78	80.00	60.00	39.55	36.22	100	326	horizontal
6.	2226.13	45.87	22.89	-4.14	41.73	18.75	80.00	60.00	38.27	41.25	310	39	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

(Above 1 GHz) / V



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www.ltalab.com

Project No. : 250919-1429

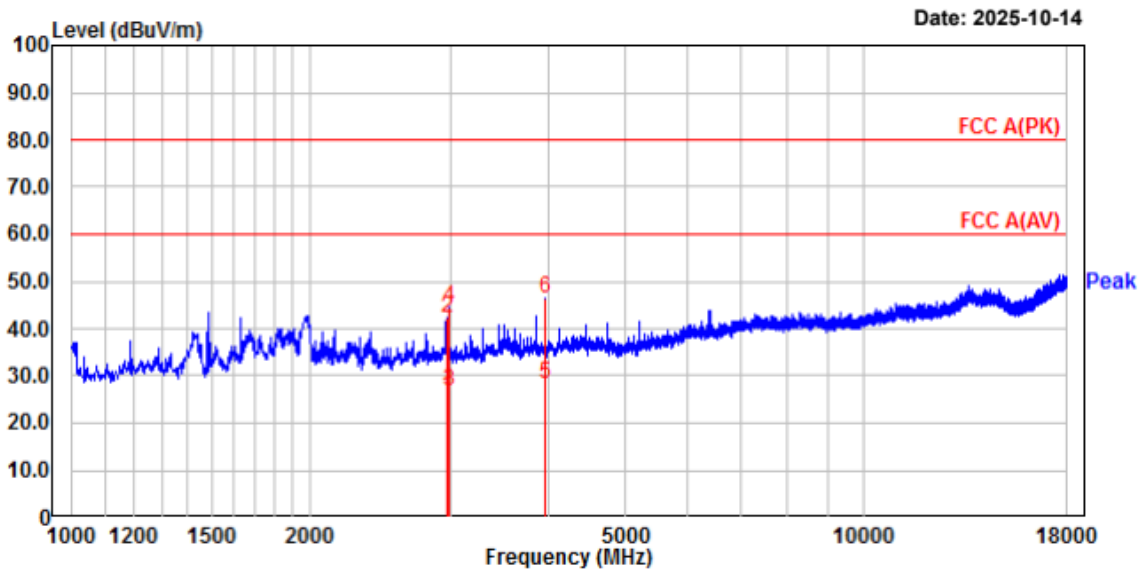
Temp/Humi: 23 'C / 51 % R.H.

Test Mode : Operating

Tested by: AHN H Y

Power : AC 120 V / 60 Hz

Measure distance : 3.5 m



No.	Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Polarity
	MHz	PK	AV	dB	PK	AV	PK	AV	PK	AV	cm	deg	
		dBuV	dBuV		dBuV	dBuV	dBuV	dBuV	dB	dB			
2.	2969.88	44.30	27.49	-1.96	42.34	25.53	80.00	60.00	37.66	34.47	250	0	vertical
4.	2995.38	46.36	28.90	-1.94	44.42	26.96	80.00	60.00	35.58	33.04	100	233	vertical
6.	3958.00	44.63	26.41	1.91	46.54	28.32	80.00	60.00	33.46	31.68	190	50	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

Conclusions

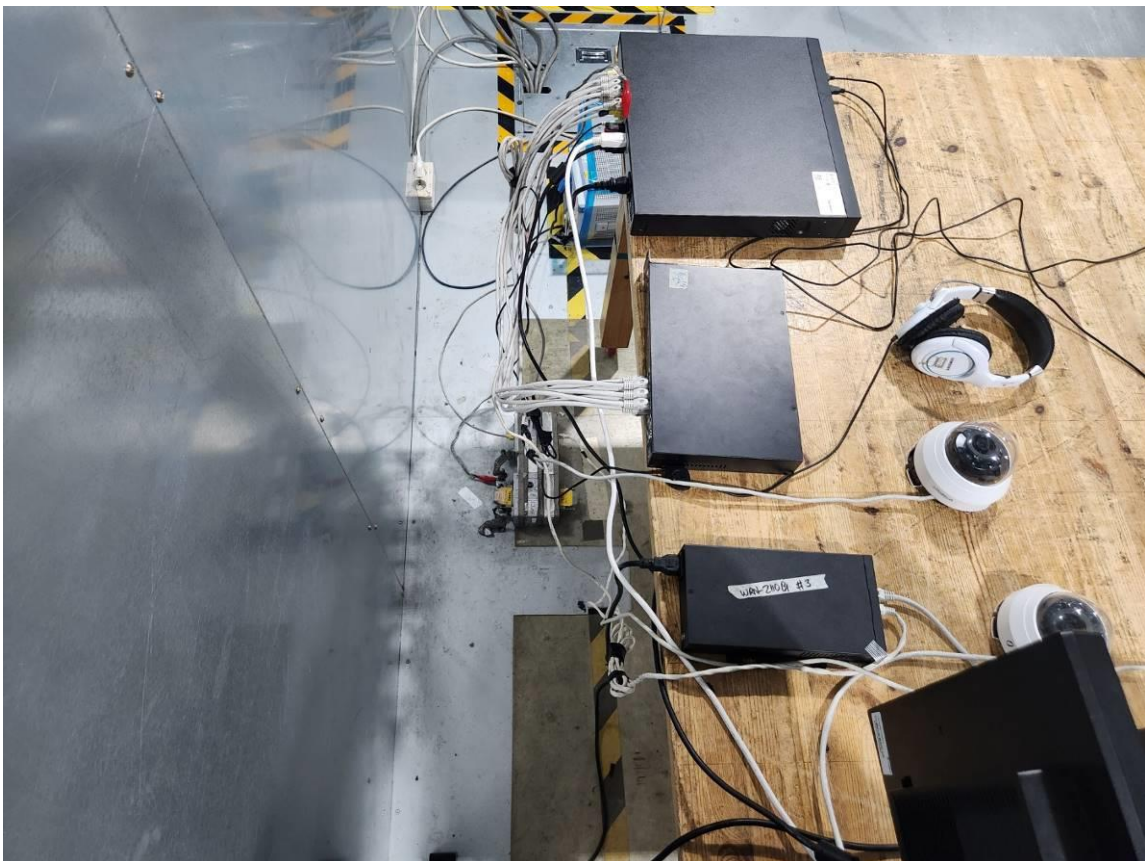
Product models "**BRB-X1610SE**" meets all of the Class A requirements of the FCC Part 15, Subpart B. Limits of radio disturbance characteristics of ITE).

(Refer to Test Specification and Test Results in the "LTA certification", page 4 and 5)

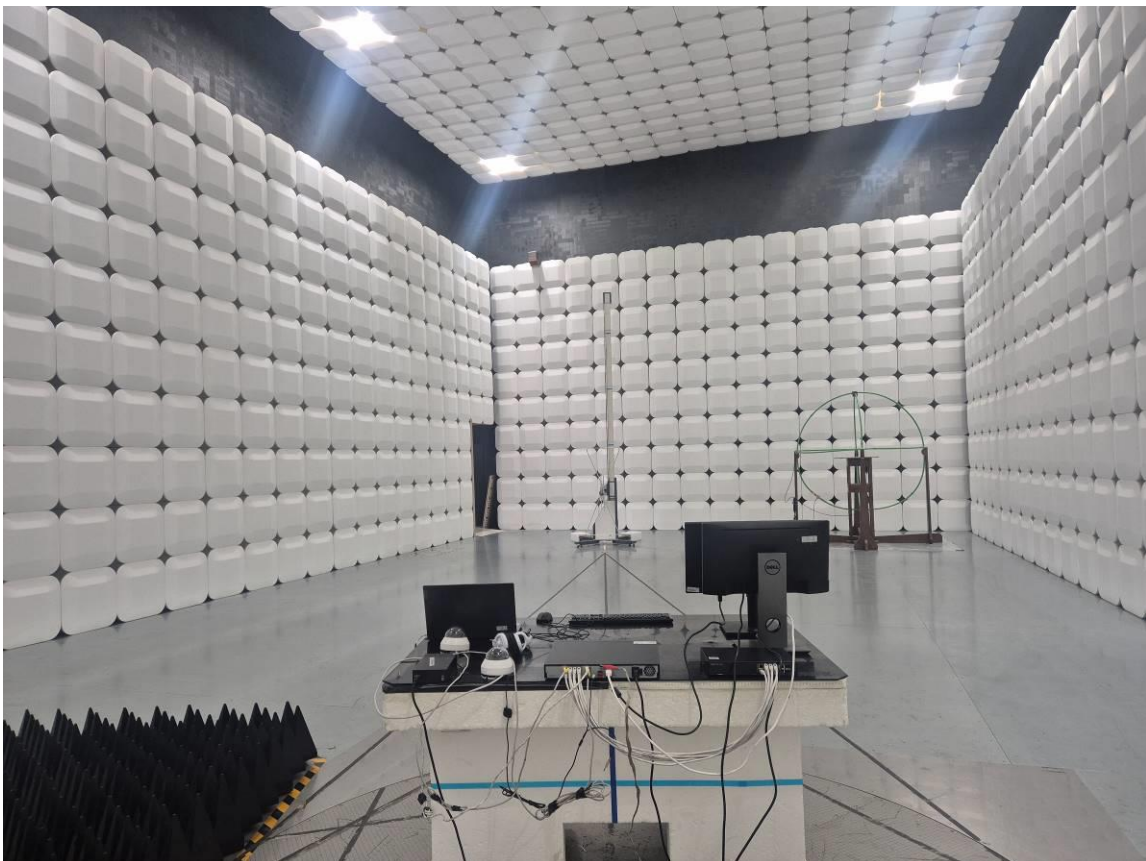
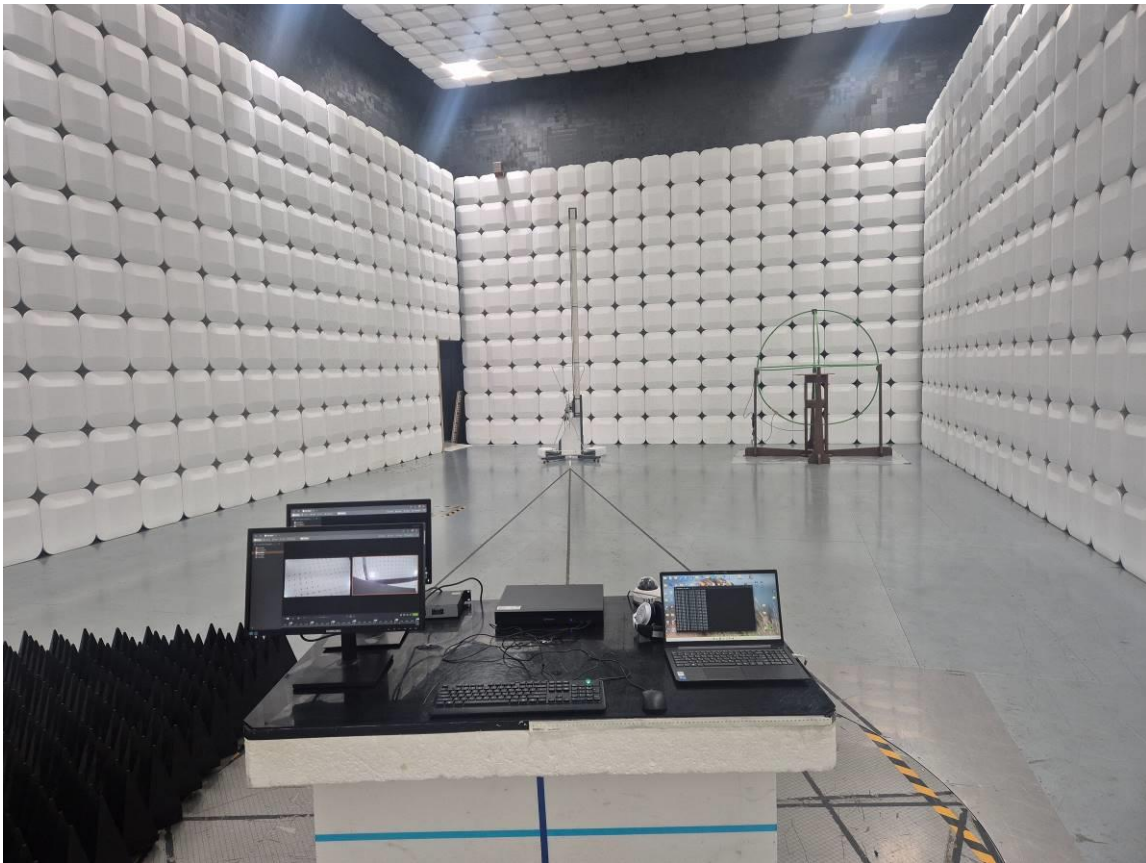
- The highest internal source of an EUT is 3.4 GHz, the measurement shall be made up to 18 GHz.

Photograph of the measurements

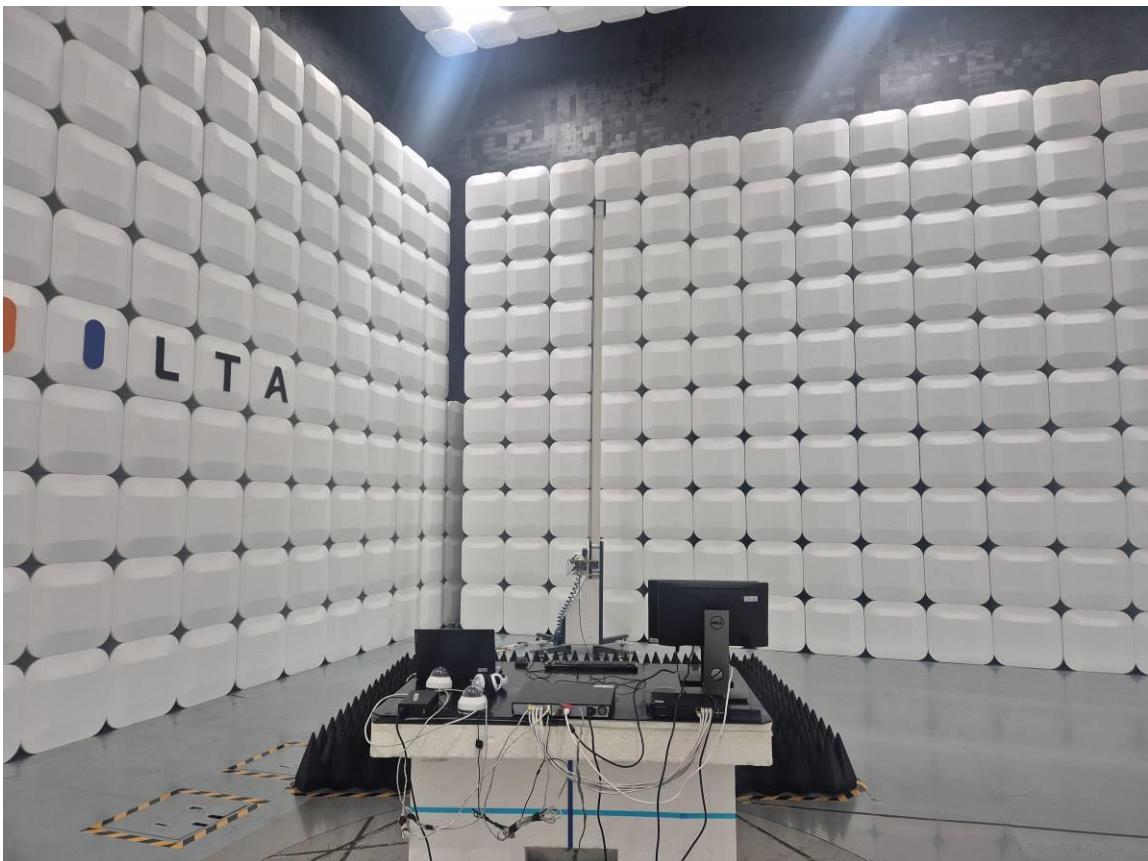
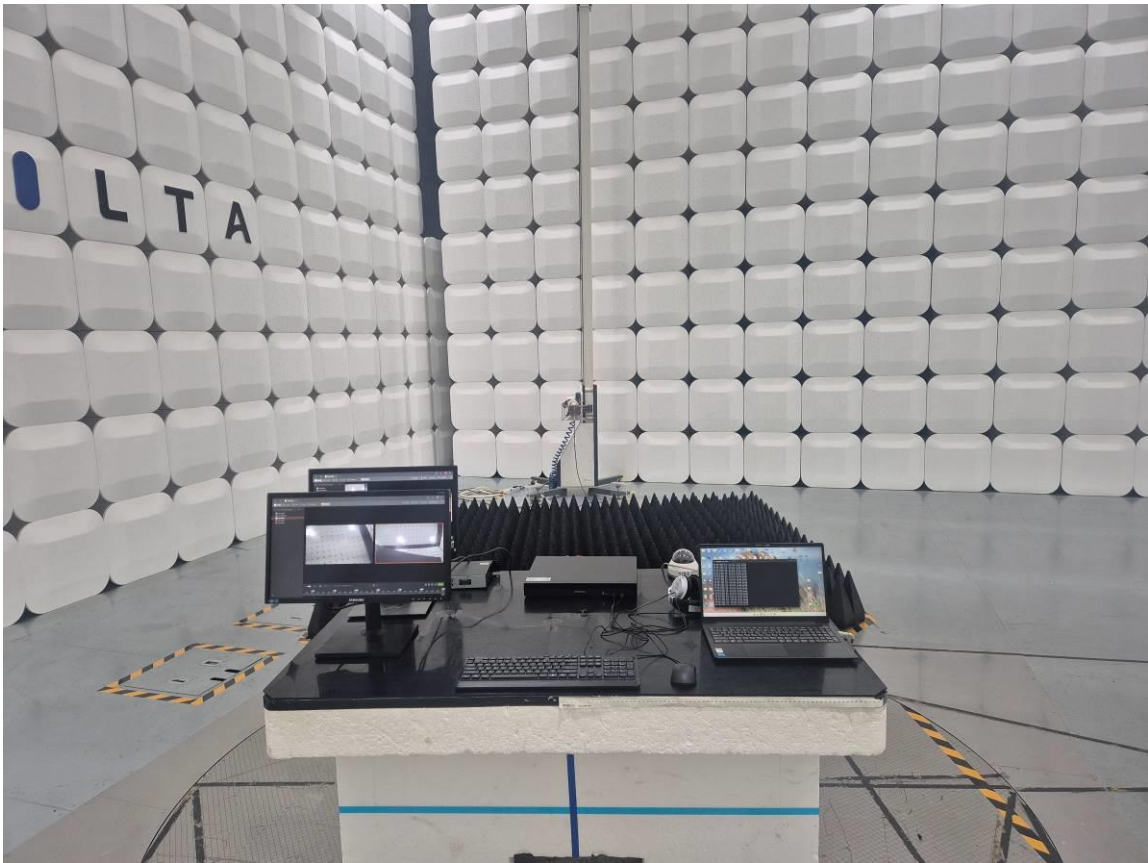
Conducted Emissions



Radiated Emissions - Below 1 GHz

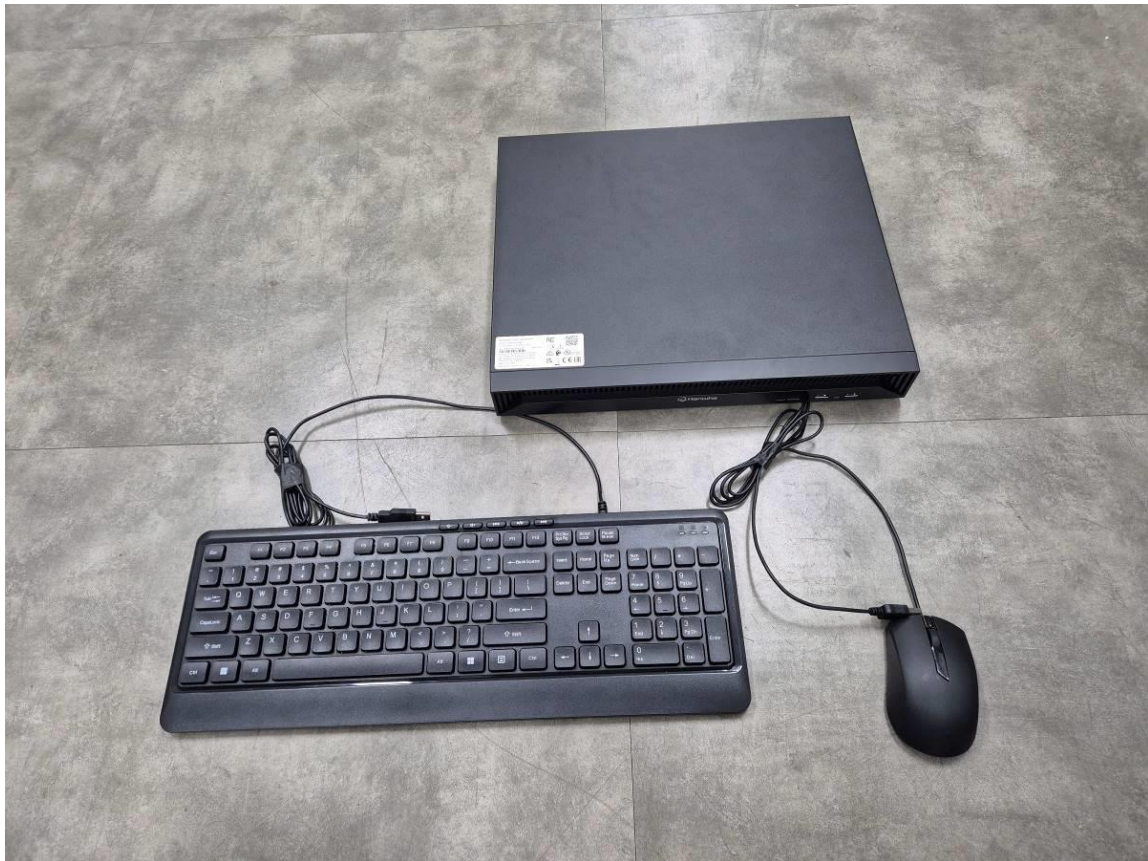


Radiated Emissions - Above 1 GHz

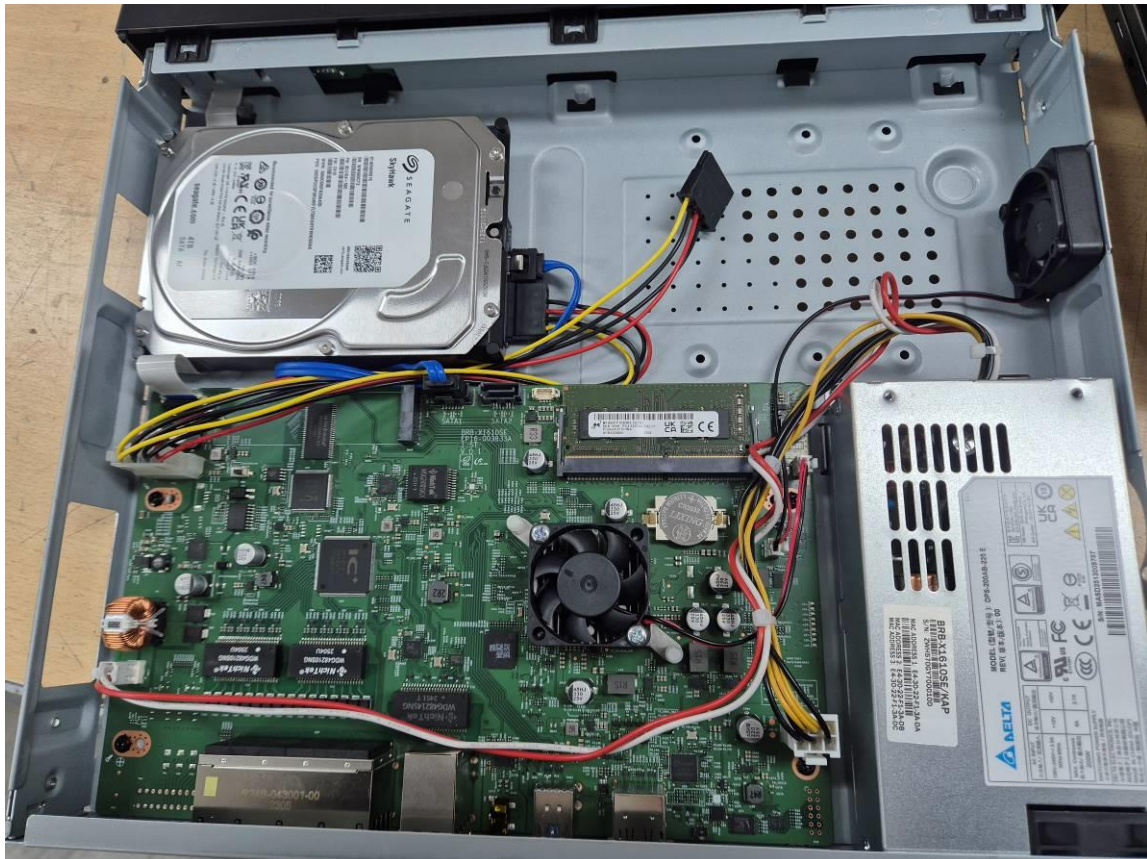


Photograph of the EUT

EUT



EUT



Modification

