

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. : LR500122310E
Issue Date : October 20, 2023
Applied Standard : FCC Part 15, Subpart B & ICES-003 (Issue.7)
Trade Name : Hanwha Vision Co., Ltd
Equipment Name : Network Video Recorder
Model Name : XRN-6420DB4
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	07.08.2023	LR500112308A	Initial
1	20.10.2023	LR500122310E	Change hardware parts (PCBs and fan)

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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 : +82-10-2667-4196 / +82-70-7147-8361

Factory #1

Company name : HANWHA VISION VIETNAM COMPANY LIMITED
Address : Lot O-2, Que Vo Industrial Zone extended area ,Nam Son commune, Bac Ninh city,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 : Network Video Recorder
Model Name : XRN-6420DB4
Additional Model Name : -
Serial number : Identification
Intended environment : Residential area
Date of receipt : August 31, 2023
EUT condition : Pre-production, not damaged
Test Mode : Operating mode
Interface ports : AC IN #1~#2, HDMI #1~#2, ALARM IN, ALARM OUT, AUDIO OUT, USB #1~#4, NETWORK #1~#3, Ground
Power rating : AC 120 V, 60 Hz
Test Voltage : AC 120 V, 60 Hz

Model Description

- NONE

Model Specification

- The console port of the device to be tested is a port for administrators and is excluded from the test item.

*** To be continued next page ***

LTA Certification –cont.-**Test Performed**

Test started & completed : September 15 - 21, 2023
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.:

- Supplementary area: gasket tape inside the device / Material: gasket tape (model name: N/A, manufacturer: N/A number: 1 EA)

Laboratory's Certificate

Project number : 230831-0147
Issue date : September 25, 2023

This test report is issued under the authority of:

The test was supervised by:



Young Kyu Shin, Technical Manager



Min Su Han, 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 “**XRN-6420DB4**”.

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 : ± 4.85 [dB] (k=2)

(1 GHz to 6 GHz) : H : ± 5.65 [dB] (k=2) V : ± 5.68 [dB] (k=2)

(6 GHz to 18 GHz) : H : ± 5.90 [dB] (k=2) V : ± 5.74 [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	2025-03-29	
	CANADA		2024-08-15	
VCCI	JAPAN	C-14948	2026-09-10	VCCI registration
		T-12416	2026-09-10	
		R-14483	2026-10-15	
		G-10847	2024-12-13	
KOLAS	KOREA	KT551	2025-10-12	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
Network Video Recorder	XRN-3320B4	N/A	HANWHA VISION VIETNAM COMPANY LIMITED D-TECH CO.,LTD.	EUT
Mouse	MOKJUO	34004812	Primax Electronics Ltd.	EUT
ACCESSORY				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
NOTEBOOK	ELITE BOOK	N/A	HP	-
MONITOR #1	6230VP	73010478A2 20371	Lien Fong(Wujiang) Electronics Co.,Ltd.	-
MONITOR #2	AM24MB	N/A	ATEC	-
Keyboard	K120	1547SC5034 U8	Logitech	-
POE Injector	ipTIMEPoE408	POE408 4BC00624	ipTIME	-
POE Injector adapter	ANY480A5C-NI	N/A	Wwnedng Any Electronics Co.,Ltd	-
ALARM JIG #1	N/A	N/A	N/A	-
ALARM JIG #2	N/A	N/A	N/A	-
Earphone	N/A	N/A	N/A	-
USB Memory Stick	Cruzer Blade 8GB	N/A	SanDisk	2 EA
IP Camera #1	LND-6032R	ZNDJ6V4M 90000CM	HANWHA TECHWIN CO.,LTD.	-
IP Camera #2	LND-6022R	ZNDE6V4M 90000EV	HANWHA TECHWIN CO.,LTD.	-

1-5 Cable List

Cable List					
From		To		Length (m)	Shielding
Type	I/O Port	Type	I/O Port		
EUT	AC IN #1	AC POWER SOURCE	3 PIN AC LINE	1.0	NO
EUT	AC IN #2	AC POWER SOURCE	3 PIN AC LINE	1.0	NO
EUT	USB #1	MOUSE	-	1.0	NO
EUT	USB #2	KEY BOARD	-	1.0	NO
EUT	USB #3	USB MEMORY STICK #1	-	-	NO
EUT	USB #4	USB MEMORY STICK #2	-	-	NO
EUT	HDMI #1	MONITOR #1	HDMI	1.0	YES
EUT	HDMI #2	MONITOR #2	HDMI	1.0	YES
EUT	NETWORK #1	POE INJECTOR	LAN #1	3.0	NO
EUT	NETWORK #2	NOTEBOOK	LAN	3.0	NO
EUT	NETWORK #3	POE INJECTOR	LAN #2	3.0	NO
EUT	AUDIO OUT	EAR PHONE	-	1.0	NO
EUT	ALARM IN	ALARM ZIG #1	-	1.0	NO
EUT	ALARM OUT	ALARM ZIG #2	-	1.0	
EUT	GROUND	GROUND	GROUND	1.4	NO
POE INJECTOR	DC IN	POE INJECTOR ADAPTER	DC OUT	1.0	NO
POE INJECTOR ADAPTER	AC IN	AC POWER SOURCE	2 PIN AC LINE	1.0	NO
MONITOR #1	AC IN	AC POWER SOURCE	3 PIN AC LINE	1.0	NO
MONITOR #2	AC IN	AC POWER SOURCE	3 PIN AC LINE	1.0	NO
POE INJECTOR	POE #1	IP CAMERA #1	LAN	1.0	NO
POE INJECTOR	POE #2	IP CAMERA #2	LAN	1.0	NO

2- Test Site Description

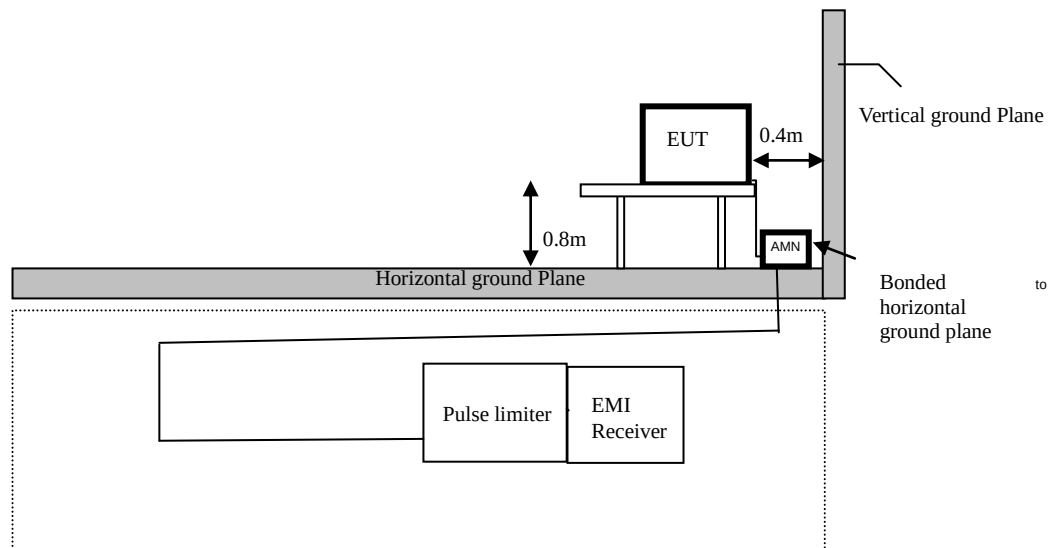
1-Facility

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.

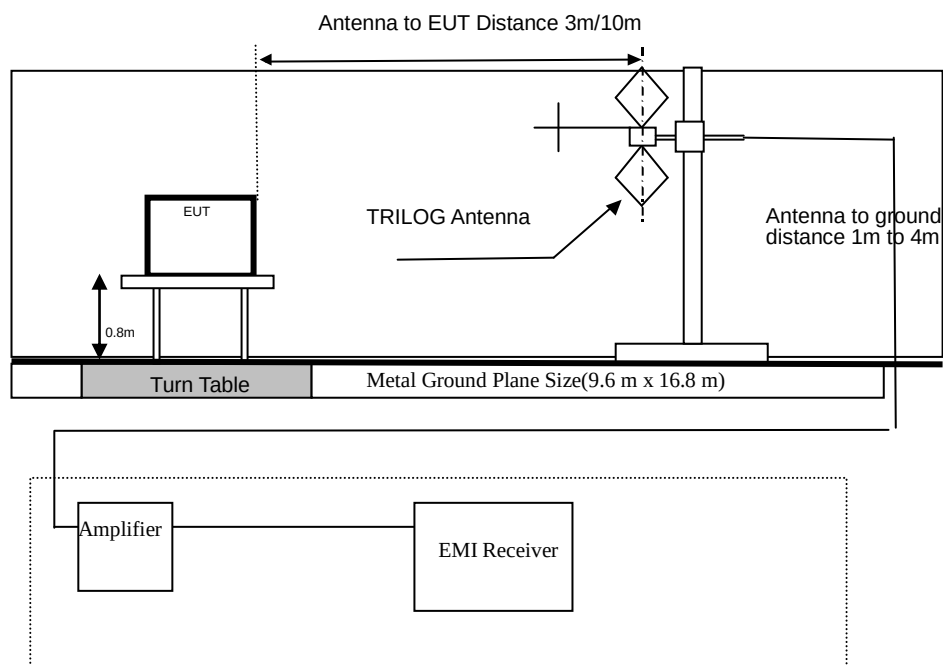
The NSA measurement of the 10 m chamber was performed on January 15, 2023 according to ANSI C 63.4.

The SVSWR measurement of the 10 m chamber was performed on October 16, 2023 according to ANSI C 63.4.

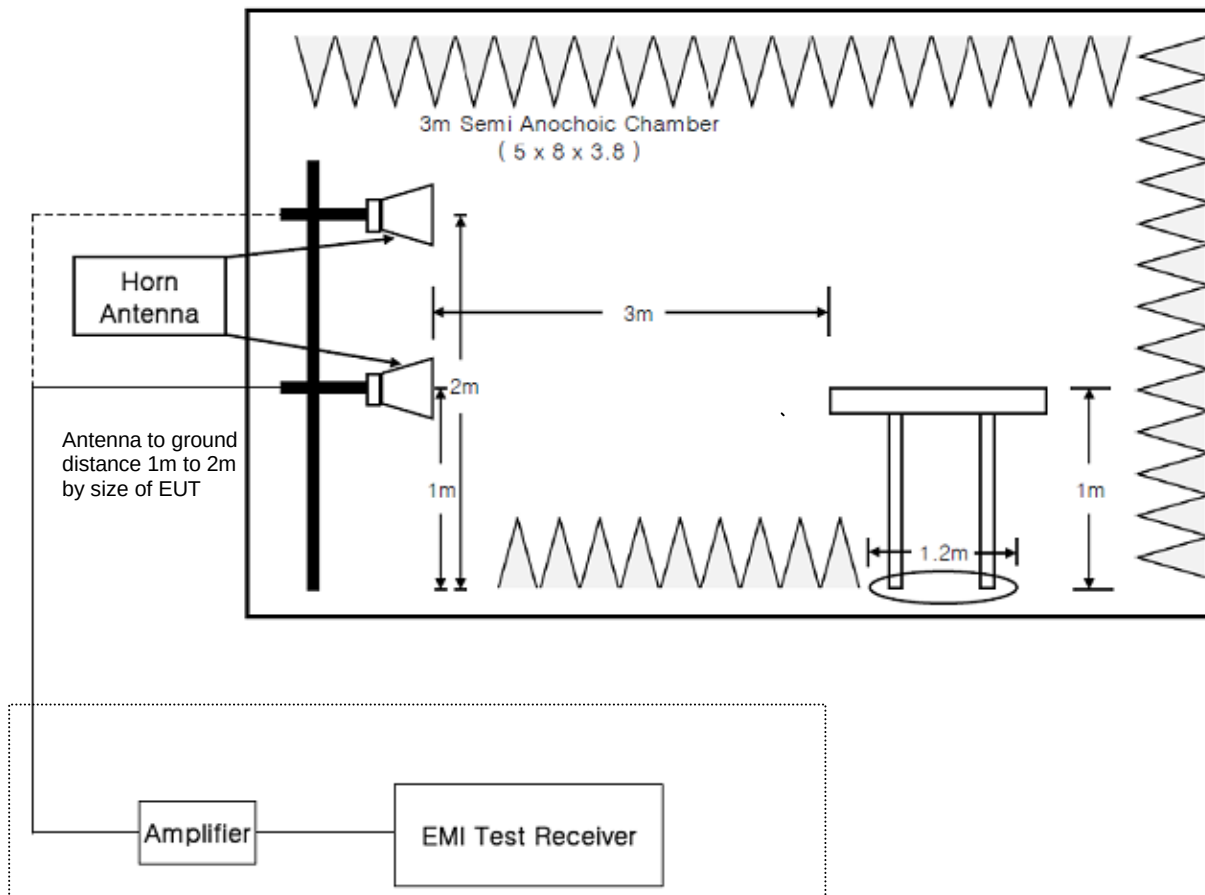
2-1 Conducted Emissions



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 dB μ V/m + (11.08 dB(1/m) + 1.31 dB - 27.32 dB)
- = 35.67 dB μ V/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	2024.03.13	1 year
☒	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100710	2024.03.13	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	100378	2024.08.22	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	101468	2024.08.22	1 year
☒	LISN(main)	ENV216	Rohde & Schwarz	102872	2024.09.07	1 year
☒	LISN(sub)	LT32C/10	AFJ	32031518210	2024.08.22	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	2024.08.22	1 year
☒	Amplifier	8447D	HP	1937A03453	2024.08.22	1 year
☒	BILOG Antenna	VULB 9168	SCHWARZBECK	749	2025.03.29	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	2024.08.22	1 year
☐	EMI TEST Receiver	ESU	Rohde & Schwarz	100092	2024.08.22	1 year
☒	Amplifier	8449B	Agilent	3008A02126	2024.03.14	1 year
☐	Amplifier	PAM-840A	COM-POWER	461314	2024.03.15	1 year
☐	HORN ANTENNA	3116B	ETS	133350	2024.03.22	1 year
☐	HORN ANTENNA	3116B	ETS	81109	2024.04.25	1 year
☒	HORN ANTENNA	3115	ETS	114105	2024.04.20	1 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

5- EMISSION

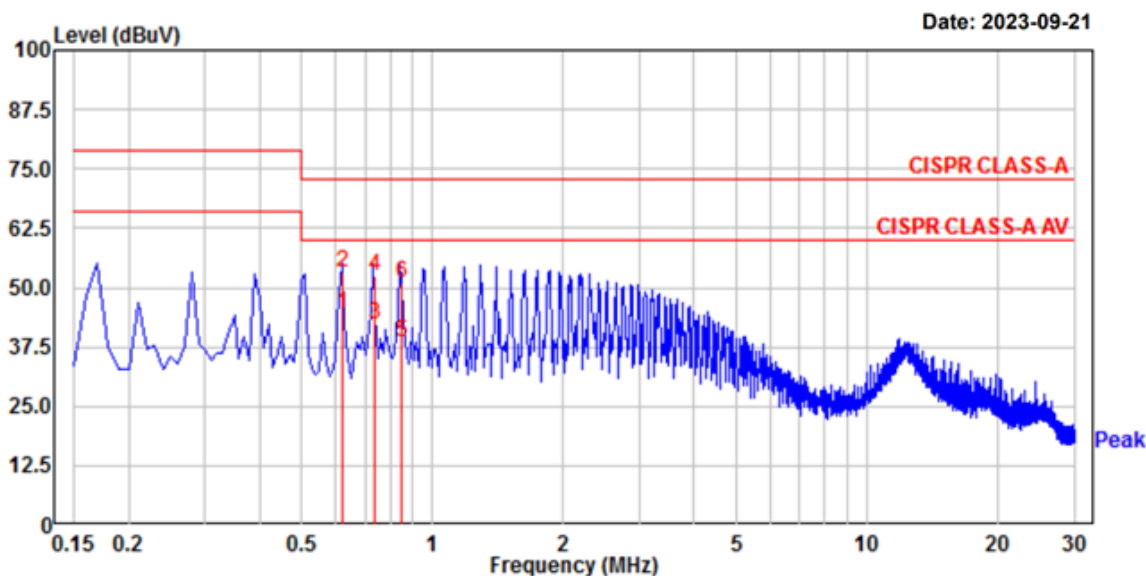
5-1 Conducted Emissions

(LINE) / #1



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Project No.	: 230831-0147	Phase	: Line #1
Test Mode	: Operating	Test Power	: AC 120 V / 60 Hz
Temp./ Humi.	: 23 'C / 55 % R.H.	Test Engineer	: HAN M S



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.	0.620	33.71	25.15	19.45	53.16	44.60	73.00	60.00	19.84	15.40	Line
4.	0.734	33.12	22.99	19.45	52.57	42.44	73.00	60.00	20.43	17.56	Line
6.	0.849	31.45	19.18	19.47	50.92	38.65	73.00	60.00	22.08	21.35	Line

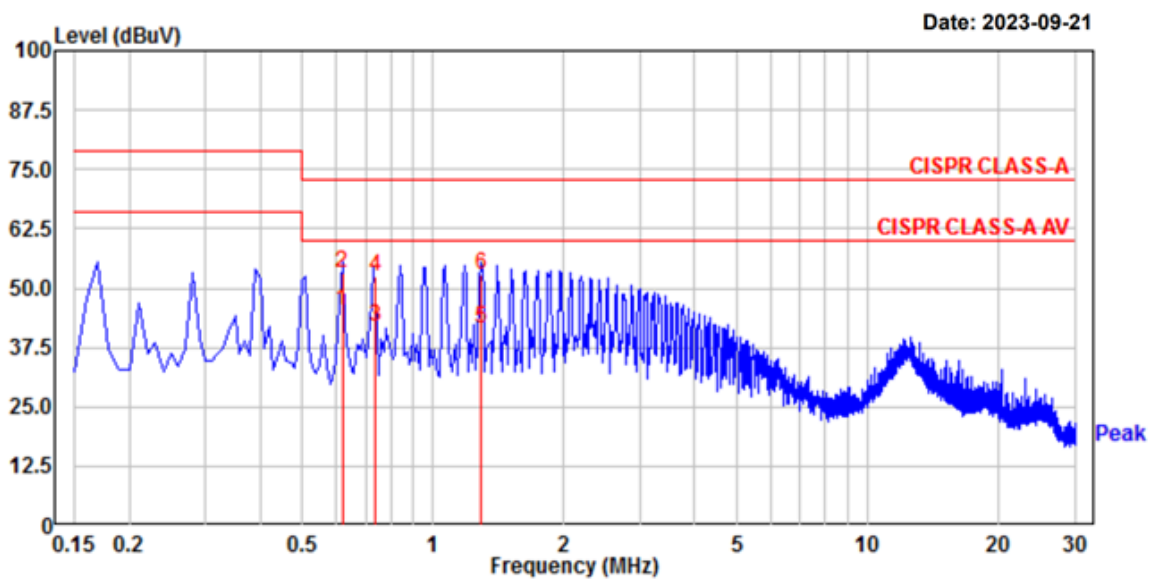
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

(NEUTRAL) / #1



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Project No.	: 230831-0147	Phase	: Neutral #1
Test Mode	: Operating	Test Power	: AC 120 V / 60 Hz
Temp./ Humi.	: 23 'C / 55 % R.H.	Test Engineer	: HAN M S



No.	Freq MHz	RD QP dBuV	RD AV dBuV	C.F dB	Result QP dBuV	Result AV dBuV	Limit QP dBuV	Limit AV dBuV	Margin QP dB	Margin AV dB	Phase
2.	0.618	33.95	25.76	19.44	53.39	45.20	73.00	60.00	19.61	14.80	neutral
4.	0.735	32.90	22.42	19.45	52.35	41.87	73.00	60.00	20.65	18.13	neutral
6.	1.288	33.41	22.03	19.48	52.89	41.51	73.00	60.00	20.11	18.49	neutral

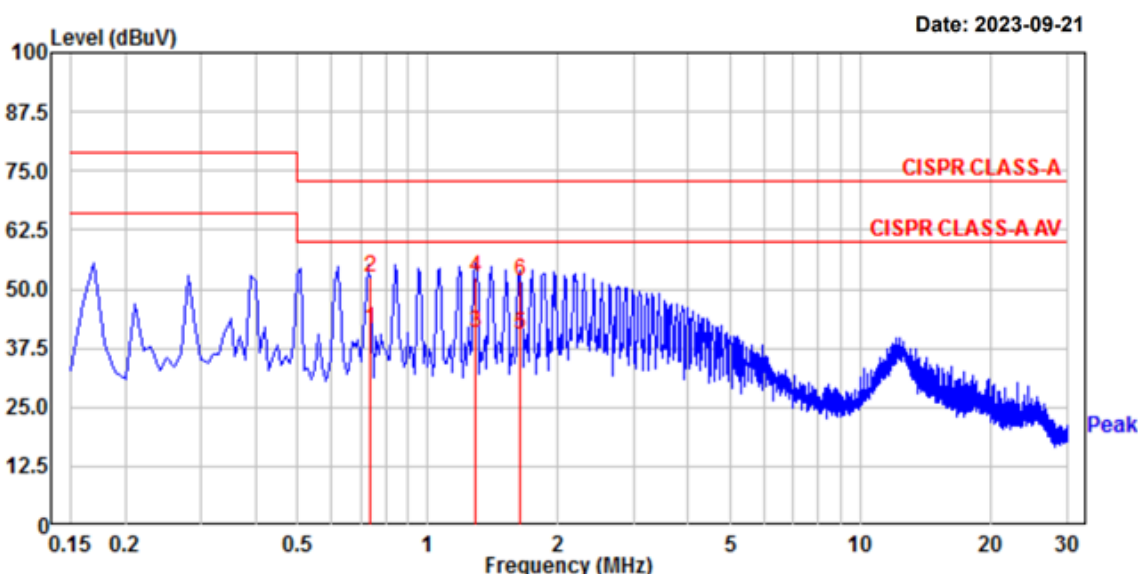
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

(LINE) / #2



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Project No.	: 230831-0147	Phase	: Line #2
Test Mode	: Operating	Test Power	: AC 120 V / 60 Hz
Temp./ Humi.	: 23 'C / 55 % R.H.	Test Engineer	: HAN M S



No.	Freq MHz	RD QP dBuV	RD AV dBuV	C.F dB	Result QP dBuV	Result AV dBuV	Limit QP dBuV	Limit AV dBuV	Margin QP dB	Margin AV dB	Phase
2.	0.735	32.87	22.23	19.45	52.32	41.68	73.00	60.00	20.68	18.32	Line
4.	1.287	32.87	21.23	19.48	52.35	40.71	73.00	60.00	20.65	19.29	Line
6.	1.631	32.26	20.71	19.49	51.75	40.20	73.00	60.00	21.25	19.80	Line

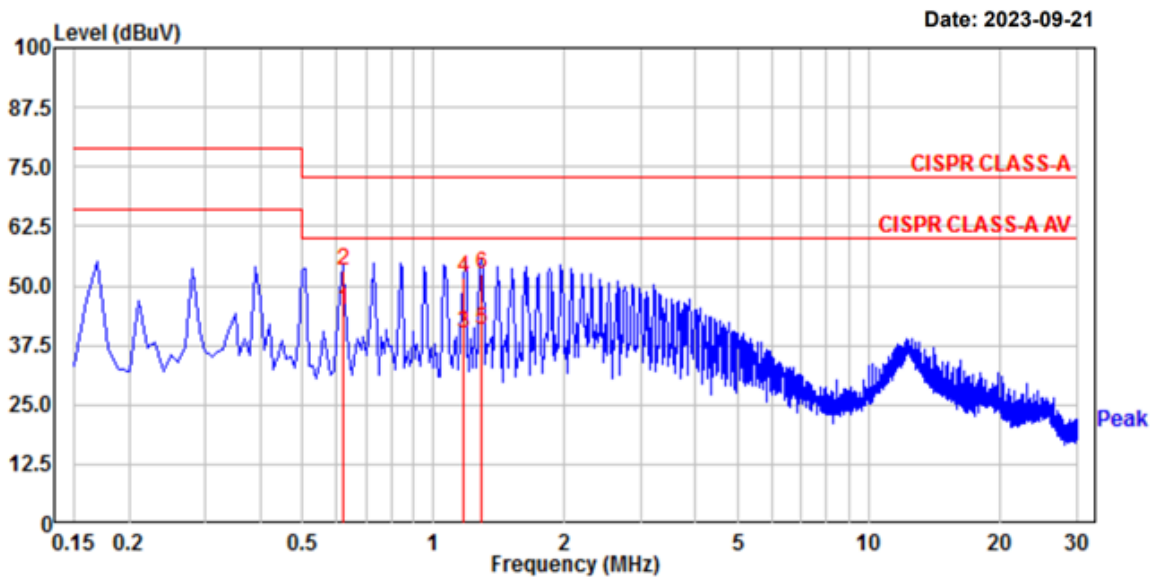
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

(NEUTRAL) / #2



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Project No.	: 230831-0147	Phase	: Neutral #2
Test Mode	: Operating	Test Power	: AC 120 V / 60 Hz
Temp./ Humi.	: 23 'C / 55 % R.H.	Test Engineer	: HAN M S



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.	0.619	33.84	25.58	19.44	53.28	45.02	73.00	60.00	19.72	14.98	neutral
4.	1.173	32.13	20.36	19.47	51.60	39.83	73.00	60.00	21.40	20.17	neutral
6.	1.287	33.15	21.32	19.48	52.63	40.80	73.00	60.00	20.37	19.20	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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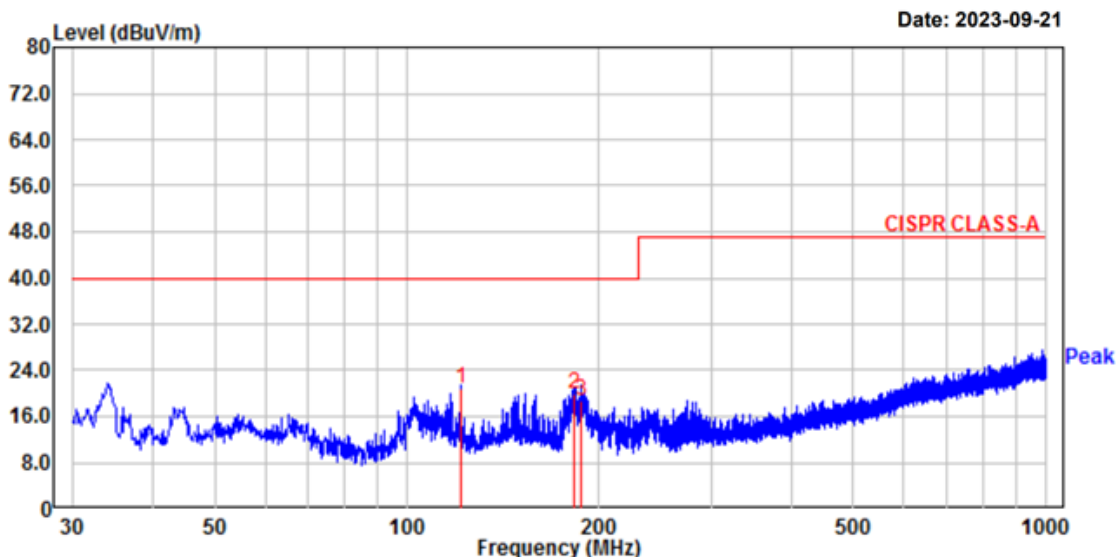
Project No. : 230831-0147

Temp/Humi: 21 'C / 53 % R.H.

Test Mode : Operating

Tested by: HAN M S

Power : AC 120 V / 60 Hz



No.	Freq MHz	Reading dBuV	C.F dB	Result QP dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
1.	121.42	34.51	-13.65	20.86	40.00	19.14	250	187	horizontal
2.	183.26	32.60	-12.68	19.92	40.00	20.08	400	239	horizontal
3.	187.02	31.80	-13.02	18.78	40.00	21.22	310	222	horizontal

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

(Below 1 GHz) / V



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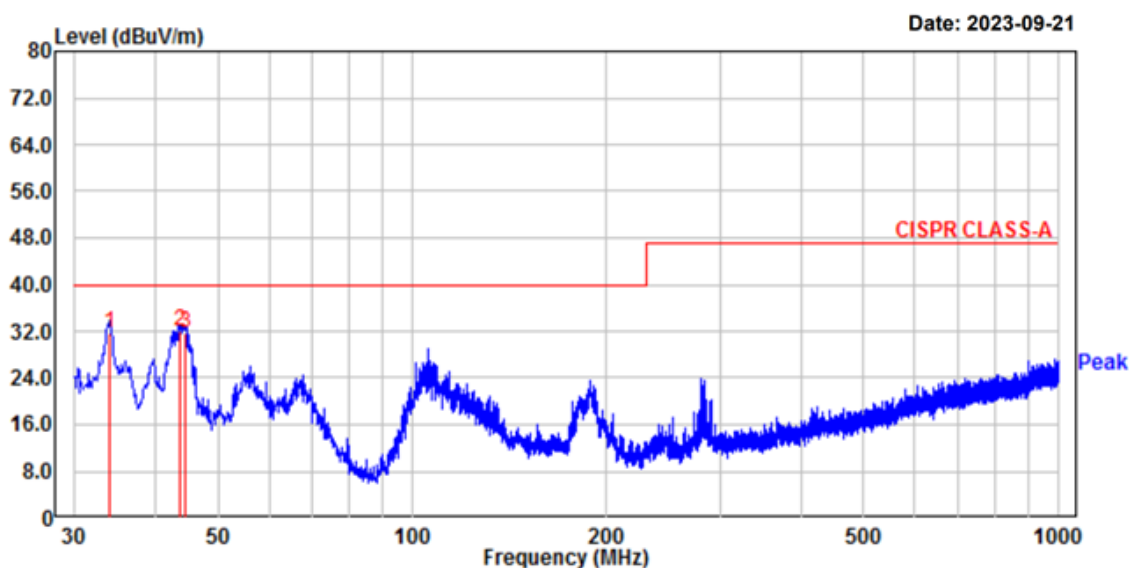
Project No. : 230831-0147

Temp/Humi: 21 'C / 53 % R.H.

Test Mode : Operating

Tested by: HAN M S

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.	33.88	44.80	-13.21	31.59	40.00	8.41	250	165	vertical
2.	43.70	43.90	-11.99	31.91	40.00	8.09	125	360	vertical
3.	44.55	43.50	-11.94	31.56	40.00	8.44	100	345	vertical

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

Radiated Emissions (IC)

(Below 1 GHz) / H



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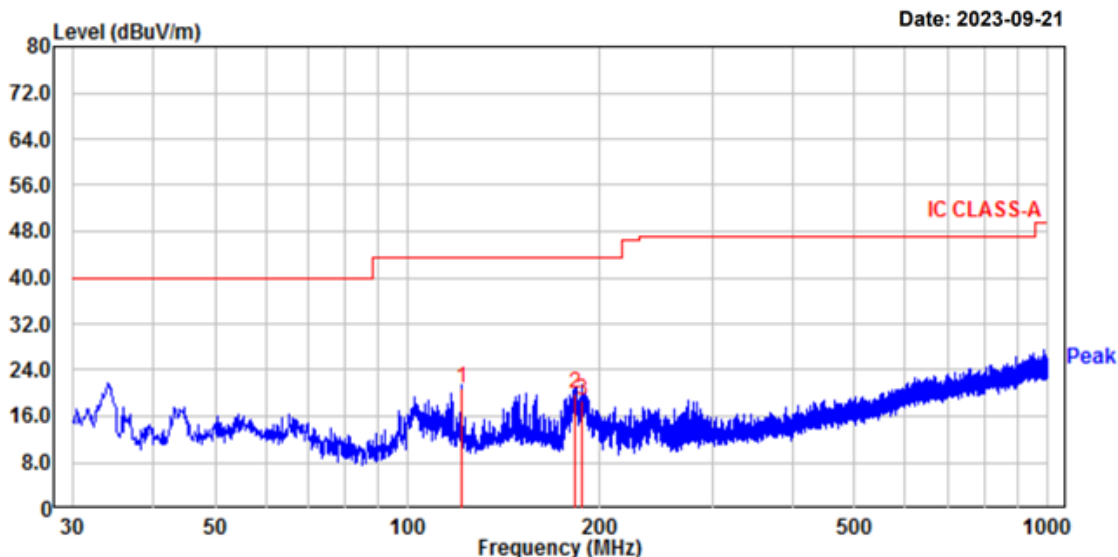
Project No. : 230831-0147

Temp/Humi: 21 'C / 53 % R.H.

Test Mode : Operating

Tested by: HAN M S

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.	121.42	34.51	-13.65	20.86	43.50	22.64	250	187	horizontal
2.	183.26	32.60	-12.68	19.92	43.50	23.58	400	239	horizontal
3.	187.02	31.80	-13.02	18.78	43.50	24.72	310	222	horizontal

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

(Below 1 GHz) / V



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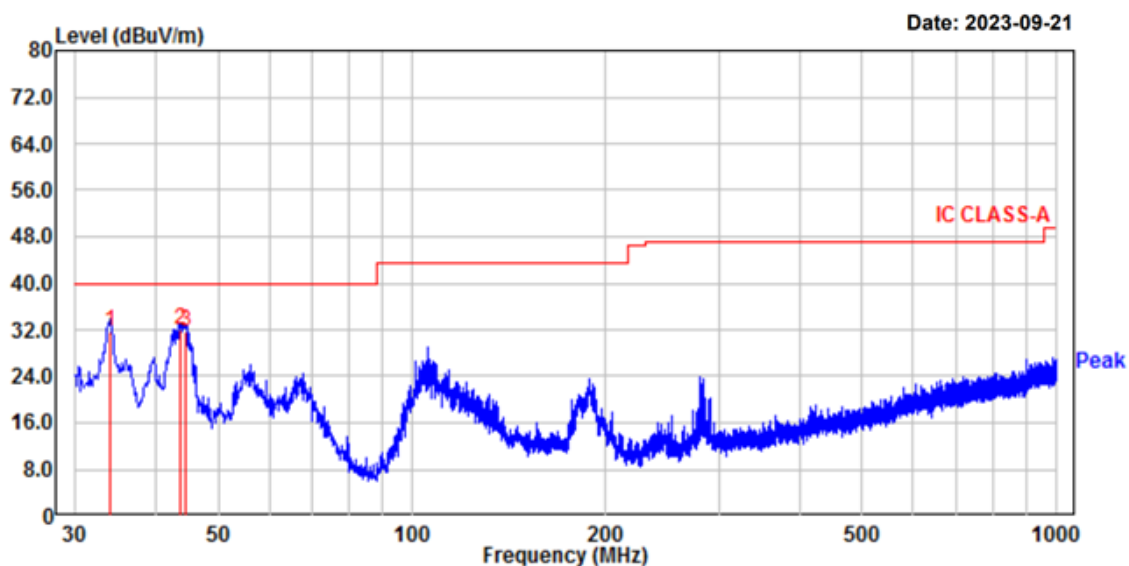
Project No. : 230831-0147

Temp/Humi: 21 'C / 53 % R.H.

Test Mode : Operating

Tested by: HAN M S

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.	33.88	44.80	-13.21	31.59	40.00	8.41	250	165	vertical
2.	43.70	43.90	-11.99	31.91	40.00	8.09	125	360	vertical
3.	44.55	43.50	-11.94	31.56	40.00	8.44	100	345	vertical

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

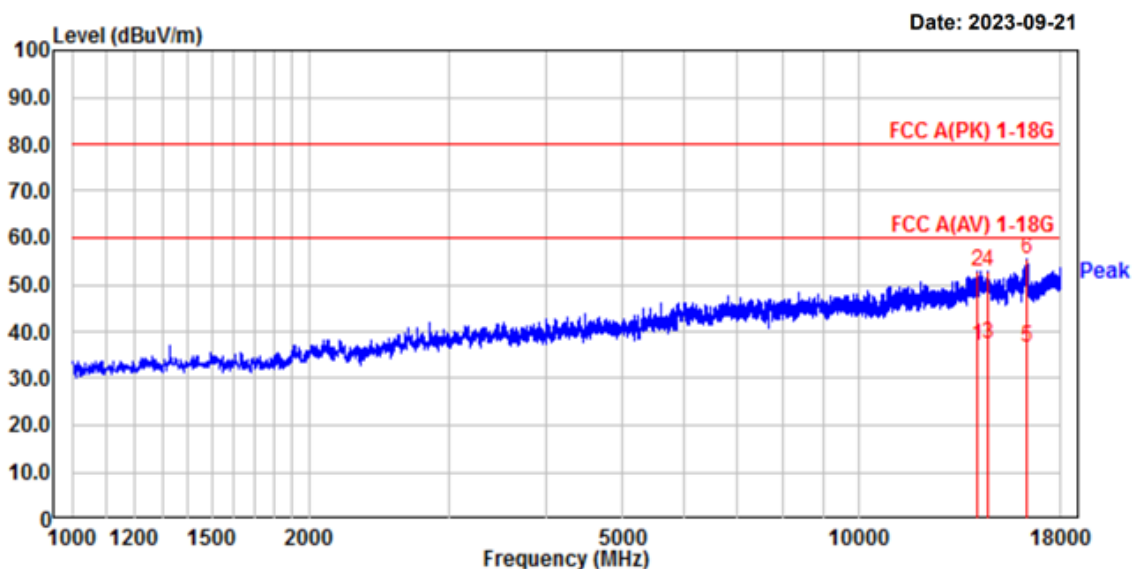
Radiated Emissions (FCC / IC)

(Above 1 GHz) / H



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Project No. : 230831-0147	Temp/Humi: 21 'C / 53 % R.H.
Test Mode : Operating	Tested by: HAN M S
Power : AC 120 V / 60 Hz	Measure distance : 3.8 m



No.	Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Polarity
	MHz	PK	AV		PK	AV	PK	AV	PK	AV	cm	deg	
2.	14094.25	37.27	21.50	15.42	52.69	36.92	80.00	60.00	27.31	23.08	100	162	horizontal
4.	14557.50	38.16	22.59	14.64	52.80	37.23	80.00	60.00	27.20	22.77	100	0	horizontal
6.	16302.13	41.58	22.80	13.85	55.43	36.65	80.00	60.00	24.57	23.35	100	204	horizontal

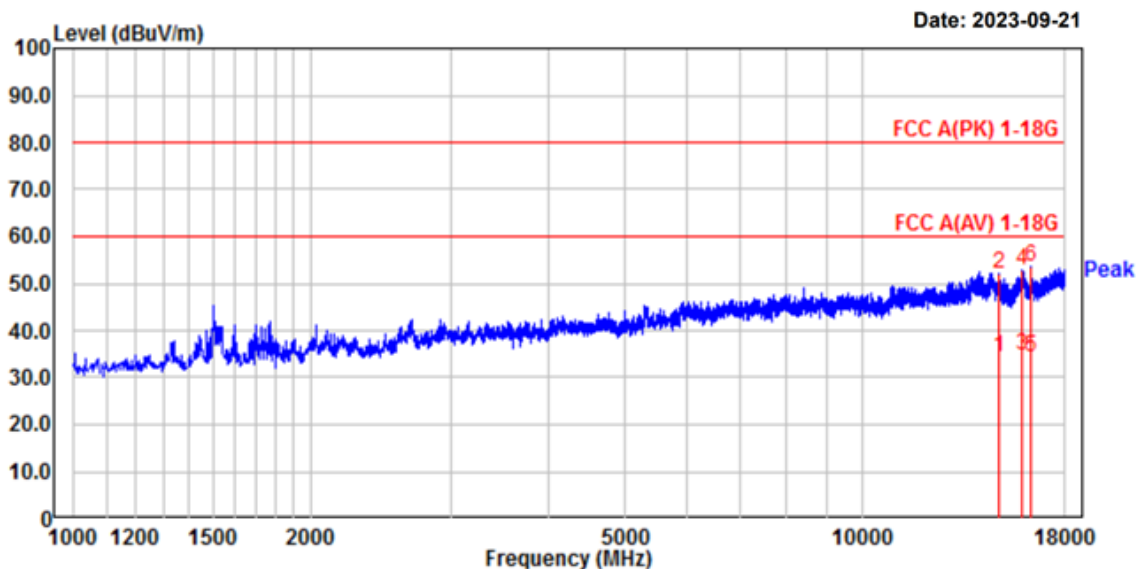
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

(Above 1 GHz) / V



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Project No. : 230831-0147 Temp/Humi: 21 'C / 53 % R.H.
Test Mode : Operating Tested by: HAN M S
Power : AC 120 V / 60 Hz Measure distance : 3.8 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.	14889.00	39.22	21.50	12.91	52.13	34.41	80.00	60.00	27.87	25.59	100	335	vertical
4.	15932.38	40.52	22.61	12.16	52.68	34.77	80.00	60.00	27.32	25.23	100	0	vertical
6.	16312.75	39.87	20.80	13.68	53.55	34.48	80.00	60.00	26.45	25.52	100	106	vertical

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

Conclusions

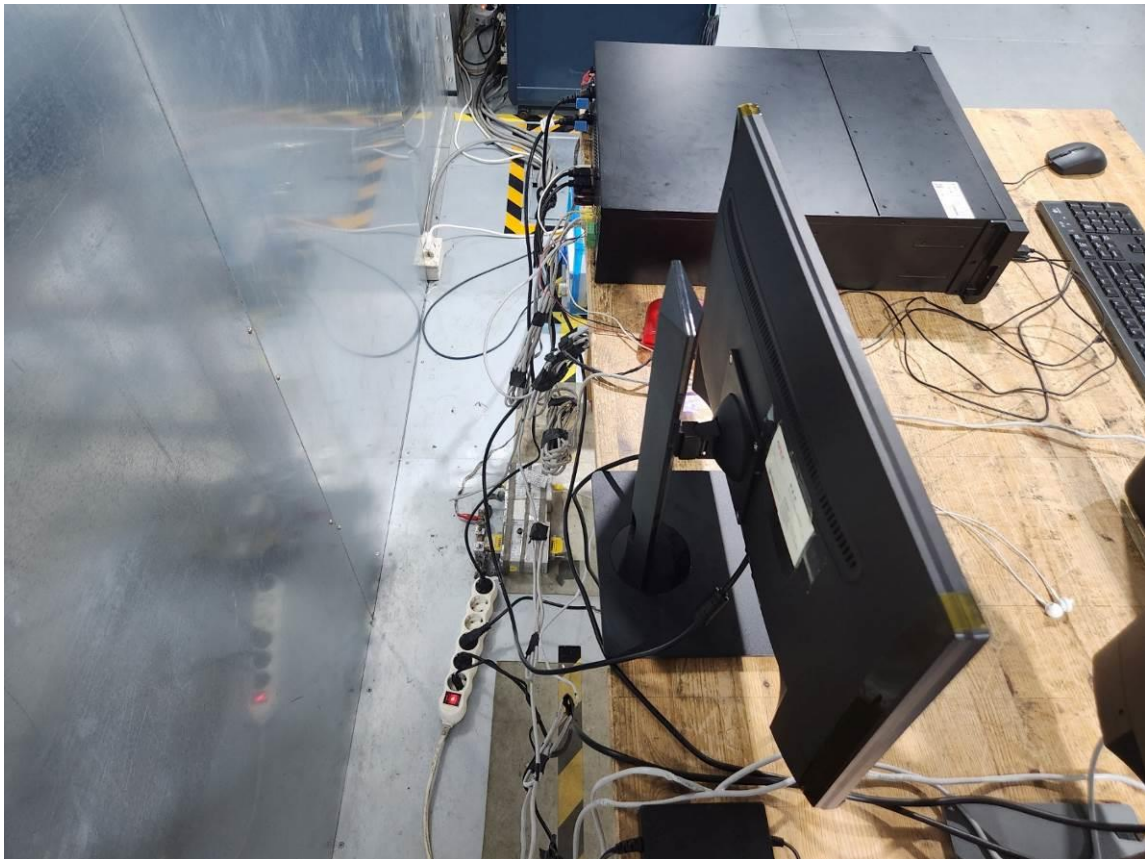
Product models "**XRN-6420DB4**" meets all of the Class A requirements of the FCC Part 15, Subpart B. Limits of radio disturbance characteristics of ITE).

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

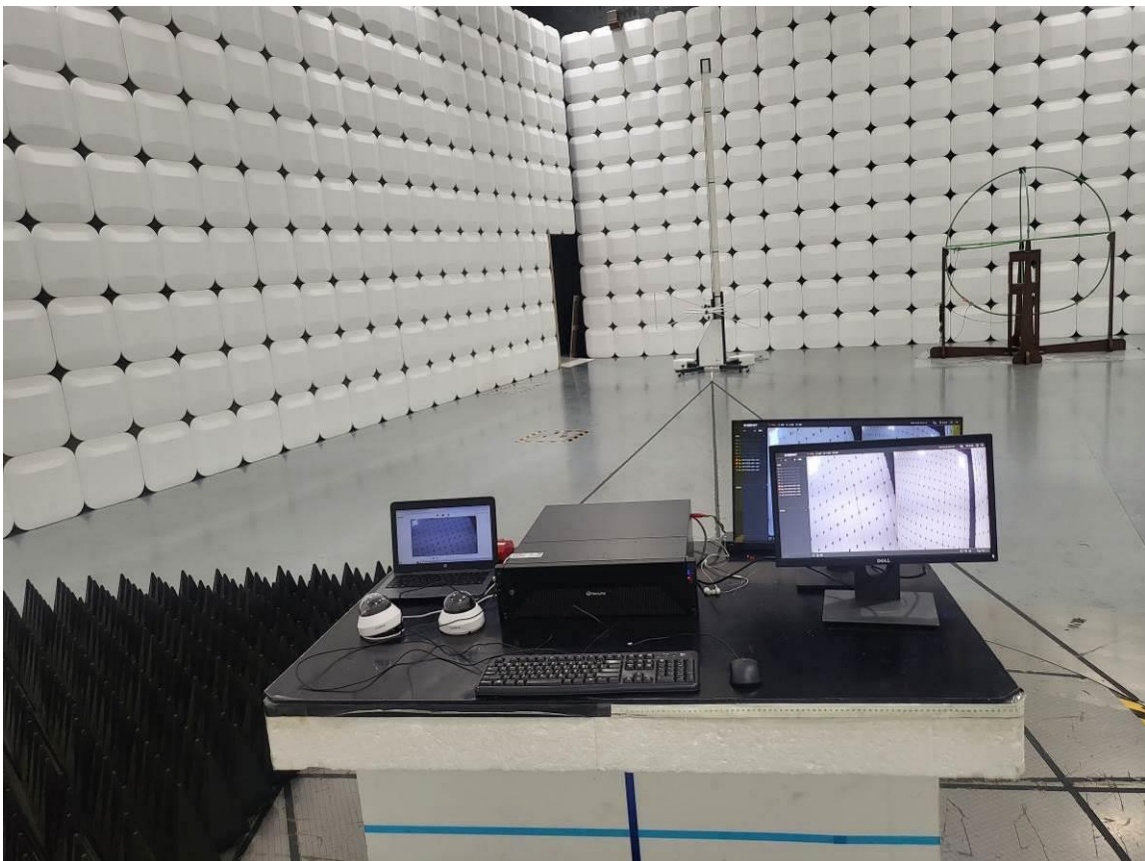
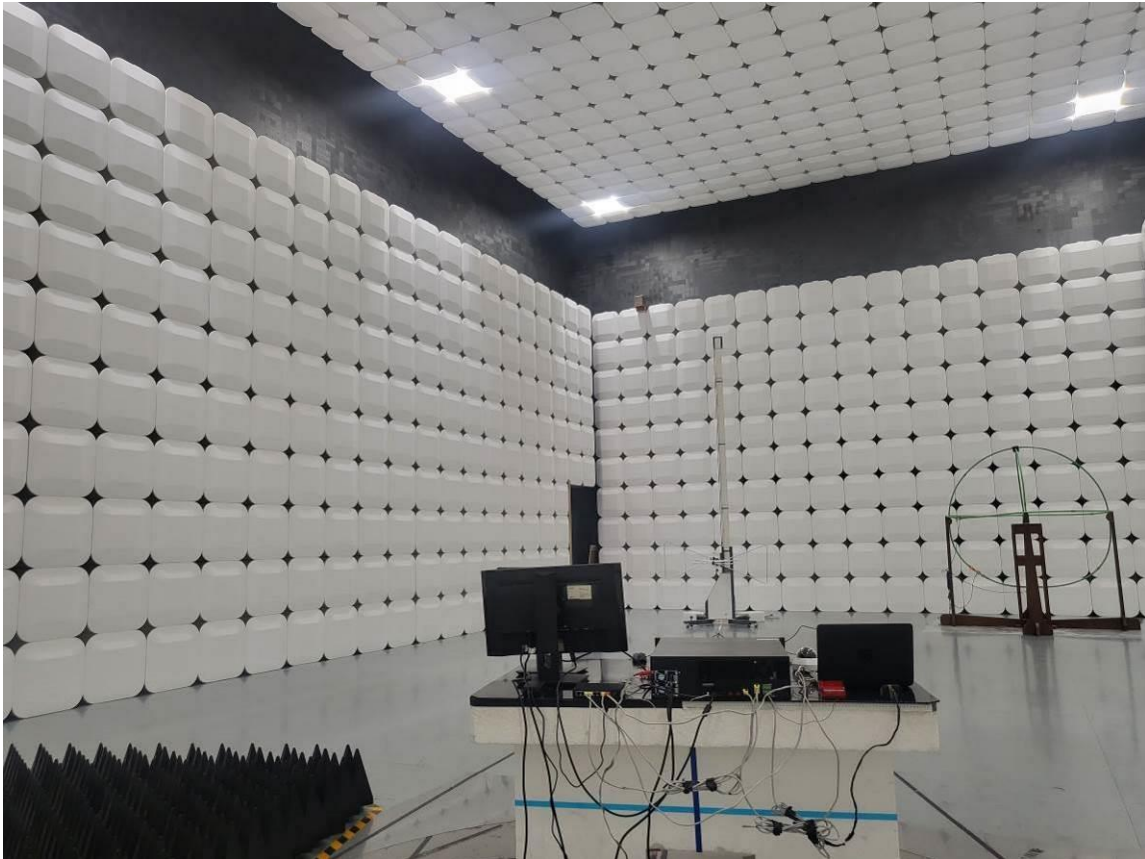
- The highest internal source of an EUT is higher than 3.0 GHz, the measurement shall be made up to 18 GHz.

Photograph of the measurements

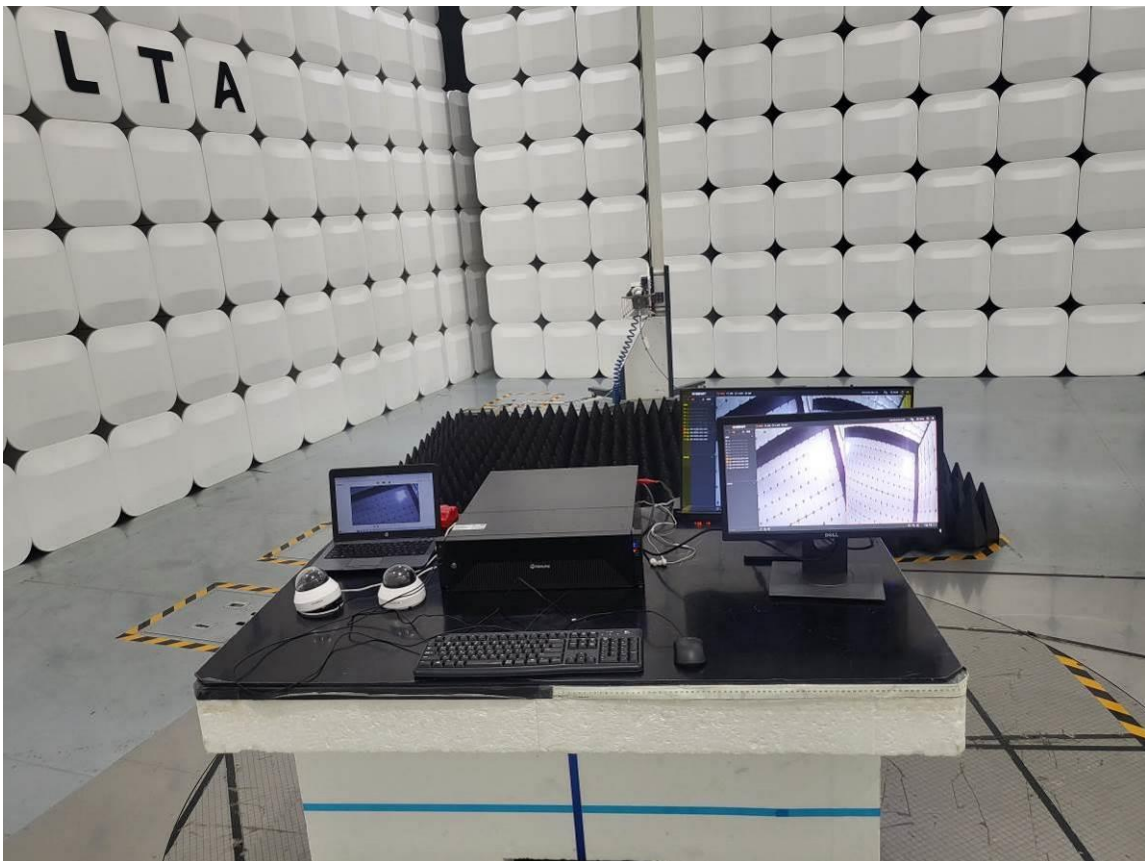
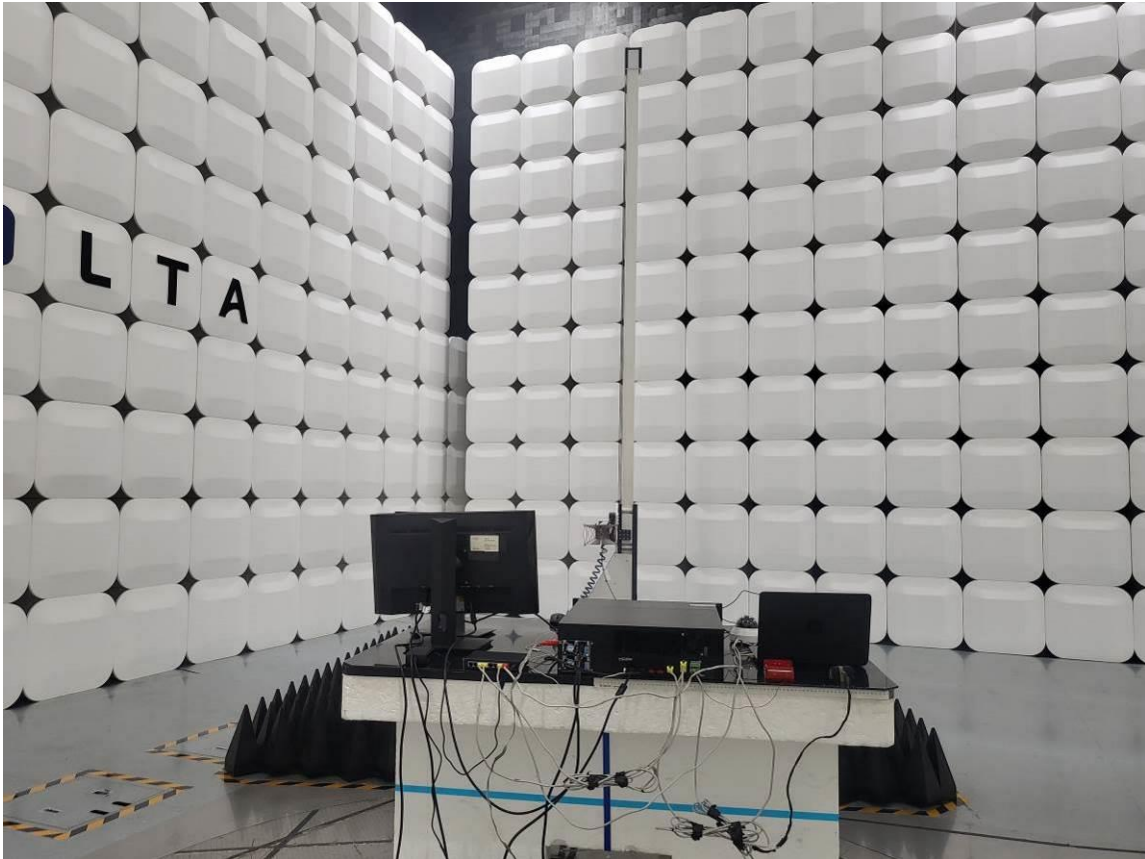
Conducted Emissions



Radiated Emissions - Below 1 GHz



Radiated Emissions - Above 1 GHz



Photograph of the EUT

EUT



EUT



Modification

