TEST REPORT

KES Co., Ltd.
#3002, #3503, #3701, 40, Simin-daero365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea
Tel : +82-31-425-6200, Fax : +82-31-341-3838

1. Client

○ Name	:	Hanwha Vision Co., Ltd.
○ Address	:	6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Sample Description

◯ Product item	:	NETWORK CAMERA
◯ Model name	:	XNF-A9014R
◯ Variant model	:	XNF-A8014R
◯ Manufacturer etc.	:	HANWHA VISION VIETNAM COMPANY LIMITED
◯ Manufacturer address	:	Lot O-2, Que Vo Industrial Zone Extended Area, Nam Son Ward, Bac Ninh Province, Vietnam
◯ Manufacturer etc.	:	D-TECH CO.,LTD.
◯ Manufacturer address	:	173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)

3. Date of test : 2025. 10. 05. ~ 2025. 10. 06.

4. Location of Test : Permanent Testing Lab

○ Address : 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Republic of Korea

5. Test method used : VCCI-CISPR 32:2016

6. Test result : PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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This test report is not related to KOLAS accreditation.

Affirmation	Tested by	Technical Manager by
	Name : SeHeon Kim 김세헌 [김세헌]2025/11/11	Name : SeongMin Choi [최성민]2025/11/11

2025. 11. 11.

KES Co., Ltd.

REPORT REVISION HISTORY

Date	Test Report No.	Revision History
2025. 11. 11.	KES-EM253472	Issued

Use of uncertainty of measurement for decisions on conformity (decision rule):

■ No decision rule is specified by the1 standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty(“simple acceptance” decision rule, previously known as “accuracy method”).

□ Other (to be specified, for example when required by the standard or client)

TABLE OF CONTENTS

1 Laboratory Information

1.1 Test Location

Category	Details
Addres	473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Republic of Korea
Telephone Number	031-883-5092
Facsimile Number	031-883-5169

The measurement facility is located at 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.2 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	**RRA**	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	KR0100
International	**KOLAS**	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	KT489
USA	**FCC**	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	KR0100
Canada	**ISED**	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	23298
JAPAN	**VCCI**	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	C-20136, T-20137, R-20181, G-20176
Europe	**TÜV SÜD**	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	CARAT 001633 0008

2 Test Summary

2.1 Class and Voltage

Test Class	Test Voltage
Class A	AC 100 V, 60 Hz

2.2 Summary of Test Results

Test Item	Test Standard	Test Result	Remark
Conducted Emissions at Mains Power Ports	VCCI CISPR 32:2016	PASS	NOTE 1
Conducted Emissions at Telecommunication Ports		PASS	-
Radiated Emissions(Below 1 ㎓)		PASS	-
Radiated Emissions(Above 1 ㎓)		PASS	-
* N/A: Not Applicable (NOTE 1) PoE port is considered a wired network port, so power-related test items are excluded.			

2.3 Remarks when standards applied

N/A

2.4 Variant Model Differences

Add derivative model due to SW difference.

2.5 Device Modifications

N/A

3 General Product Description

Division		Specificity
Internal maximum operating frequency		1 600 ㎒
Power	Rated power supply	DC 12 V(AC/DC Adapter), PoE
	Test Power	AC 230 V, 50 ㎐
I/O Ports	User port	DC IN 1 EA, RJ-45 1 EA, 7 Pin 1 EA, Micro SD Slot 1 EA
	Unused/Administrator Port	N/A
function	Product features	NETWORK CAMERA
	Wireless function	N/A
Components		Main body 1 EA, Cable 2 EA
LAN Speed		10 /100 Mbps
Others		Please refer to the specifications listed below.

	XNF-A9014R
Video	
Imaging Device	1/1.6" CMOS
Resolution	Original view: 3536x3536, 3008x3008, 2560x2560, 1600x1600, 1280x1280, 800x800, 640x640, 480x480, 160x160 Double panorama: 3584x1792, 2560x1280, 1920x960, 1280x640, 1024x512, 640x320 Single panorama: 3584x896, 2560x640, 1920x480, 1280x320, 1024x256, 640x160 Quad view: 3584x2688, 2560x1920, 1792x1344, 1280x960, 1024x768, 800x600, 640x480 Q1/Q2/Q3/Q4: 1792x1344, 1280x960, 1024x768, 800x600, 640x480, 320x240
Max. Framerate	Original view: Max.30fps@3536x3536 Double panorama: Max.30fps@3584x1792 Single panorama: Max.30fps@3584x896 Quad view: Max.30fps@3584x2688 Q1/Q2/Q3/Q4(4:3): Max.30fps@1792x1344 MJPEG: Max.5fps
NETD	None
Pixel Size	None
Min. Illumination	Color: 0.02Lux (F1.8, 1/30sec) (TBD) BW: 0.001Lux (F1.8, 1/30sec) (TBD)
Video Out	None
Video Transmission Distance	None
Lens	
Focal Length (Zoom Ratio)	1.76mm fixed focal
Optical Zoom	None
Max. Aperture Ratio	F1.8
Angular Field of View	H: 185° / V: 185° / D: 185°
Min. Object Distance	0.5m(1.64ft)
Focus Control	None
Lens Type	None
Mount Type	None
Optional Lens	None
Pan / Tilt / Rotate	
Pan / Tilt / Rotate	**Digital Rotation**

Operational	
Camera Title	Displayed up to 85 characters
Direction Indicator	None
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, **WDR**, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNRV, WiseNRII(Based on AI engine/AI-ISP)
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white - Mosaic
Gain Control	Off / Max Gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
LDC	None
Electronic Shutter Speed	Minimum / Maximum / Anti flicker(2~1/30,000sec) Prefer shutter control(Based on AI engine)
Digital PTZ	Support
Video Rotation	Flip, mirror
Analytics	Classified object type: Person/Vehicle Attributes: Person(Upper/lower clothes color), Vehicle(Color) Support BestShot Analytics events based on AI engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Sound classification(To be released) Analytics events - Defocus detection, Tampering, Shock detection, Audio detection

Business Intelligence	Based on AI engine: People/Vehicle/Crowd counting, Queue management, Heatmap
Serial Interface	None
Alarm I/O	2 configurable I/O ports *Support extra alarm I/O via optional I/O box
Alarm Triggers	Analytics, Network disconnection, Alarm input, App event, Time schedule, MQTT subscription, Day/Night change, SD/NAS disruption, Case open tempering
Alarm Events	When alarm trigger occurred - File upload(image): e-mail/FTP/SFTP - File upload(video clip): FTP/SFTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback(WAV, MP3) - MQTT: publication - SIP(TBD)
Audio Streaming	None
Audio In	Selectable(mic in/line in). Built-in 3 mic with noise reduction
Audio Out	Line out
Light Type	IR LED
Light Viewable Length	WiseIR up to 15m(49.21ft)
IR Viewable Length	None
IR Illuminator (Optional)	None
IR Radiation angle	None
IR LED	None
IR Wavelength	850nm
IR Operation	None
Water Removal	None
Auto Tracking	None
Coaxial Protocol	None
Color Palettes	None

Network	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High MJPEG
Audio Compression	G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16/32/44.1/48kHz(48Kbps) OPUS: 8/16/48kHz
Smart Codec	WiseStream(Based on AI engine)
Video Quality Adjustment	None
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming (Up to 5 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog, SIP(TBD)
SIP support (VoIP, Peer-to-peer,	Support(TBD)
Security	None
Application Programming Interfa	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform - WiseAI application included - Cloud connector application included - Sound classification(Based on AI engine) application (To be released)
Security	
OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authentication, Prevent brute-force attack
Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2), 802.1AE(MACsec)
Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
Access Control	IP-based access control, MAC-based access control, Auto logout
Data Protect	Encryption Credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
Device ID	Device Certificate(Hanwha vision Root CA)
Secure Storage	Secure element, SDcard partition encrypt
Security Certificate	ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+)

General	
Webpage Language	English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Web Viewer	None
Edge Storage	Micro SD/SDHC/SDXC 1slot Max. 1TB
Edge Storage(OnCloud)	Micro SD/SDHC/SDXC 1slot Max. 1TB * Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.
Memory	4GB RAM, 8GB eMMC
Environmental & Electrical	
Operating Temperature / Humic	-10°C~+55°C (+14°F ~ +131°F) / Less than 95% RH In PoE+ mode, IR illuminator will turn off if the temperature is higher than 50°C
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~95% RH
Wind Load	None
EPA(Effective Projected Area)	0.008m²
Certification	IP42
Input Voltage	WisePower(PoE(IEEE802.3af, class3)/PoE+(IEEE802.3at type2, Class4)), 12VDC
Power Consumption	PoE+: Max. 19.8W, typical 10.5W for 15m IR LED distance 12VDC: Max 20.0W, typical 10.9W PoE: Max. 11.2W, typical 7.7W for 10m IR LED distance 12VDC: Max 11.3W, typical 7.9W Support Wisepower - Power monitoring(Max./Current/Avg.) - Power logging
Mechanical	
RAL Code	RAL9003
Product Dimensions / Weight	Ø160x60.4mm(6.23x2.38") / 1000g
Compatible Conduit hole / Gang	single, double, 4" octagon, 4" square

4 EUT Setup and Operation Mode

4.1 EUT Configuration

Product Name	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	XNF-A9014R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
AC/DC Adapter	ATS065T-P120	-	Adapter Technology Co., Ltd.	-
PoE Injector	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co.,Ltd	-
Laptop	NT550XDZ	-	Samsung Electronics	-
Laptop AC/DC Adapter	AD-4019A	-	Chicony	-
Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-
Headset	K550	-	Britz®	-
Micro SD Card	-	-	SanDisk	-

4.2 System Configuration

Product Name	Model Number	Serial Number	Manufacturer	Remarks
-	-	-	-	-

4.3 External I/O Cabling

Mode 1

Start		End		Cable Spec.	
Product Name	**I/O Port**	**Product Name**	**I/O Port**	**Length(m)**	**Shield**
NETWORK CAMERA (EUT)	DC IN	AC/DC Adapter	DC OUT	1.5	U
	RJ-45 (LAN)	Laptop	RJ-45 (LAN)	3.1	U
	7 Pin (Audio OUT)	Headset	3.5 ㎜	1.8	U
	7 Pin (Audio IN)		3.5 ㎜	1.8	U
	7 Pin (Alarm OUT)	Alarm	Alarm IN	3.5	U
	7 Pin (Alarm IN)	Button Alarm	Alarm OUT	3.5	U
	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
Laptop	DC Jack	Laptop AC/DC Adapter	DC Jack	1.5	U

Mode 2

Start		End		Cable Spec.	
Product Name	**I/O Port**	**Product Name**	**I/O Port**	**Length(m)**	**Shield**
NETWORK CAMERA (EUT)	RJ-45 (PoE)	PoE Injector	RJ-45 (PoE)	3.1	U
	7 Pin (Audio OUT)	Headset	3.5 ㎜	1.8	U
	7 Pin (Audio IN)		3.5 ㎜	1.8	U
	7 Pin (Alarm OUT)	Alarm	Alarm IN	3.5	U
	7 Pin (Alarm IN)	Button Alarm	Alarm OUT	3.5	U
	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
Laptop	DC Jack	Laptop AC/DC Adapter	DC Jack	1.5	U
PoE Injector	RJ-45 (LAN)	Laptop	RJ-45 (LAN)	2.0	U

* Unshielded=U, Shielded=S

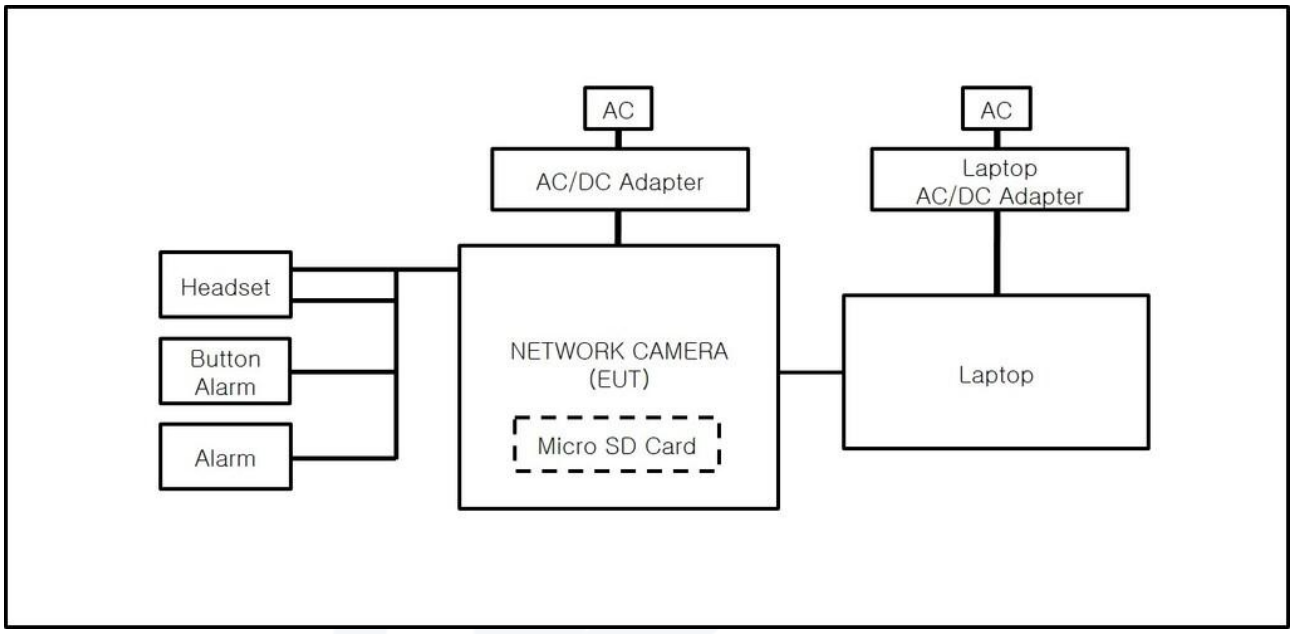
4.4 EUT Operating Mode(s)

Category	Mode	Operating
Mode 1	DC Power	- Monitoring EUT Using Web Viewer, Ping Test - When the Button Alarm is pressed, make sure the Alarm is working - Uploaded the 1 ㎑ tone sound to the Web Viewer and checked if the sound is output to the headset. - After the test, the recorded video stored on the Micro SD Card was checked and the microphone motion was also confirmed.
Mode 2	PoE Power	

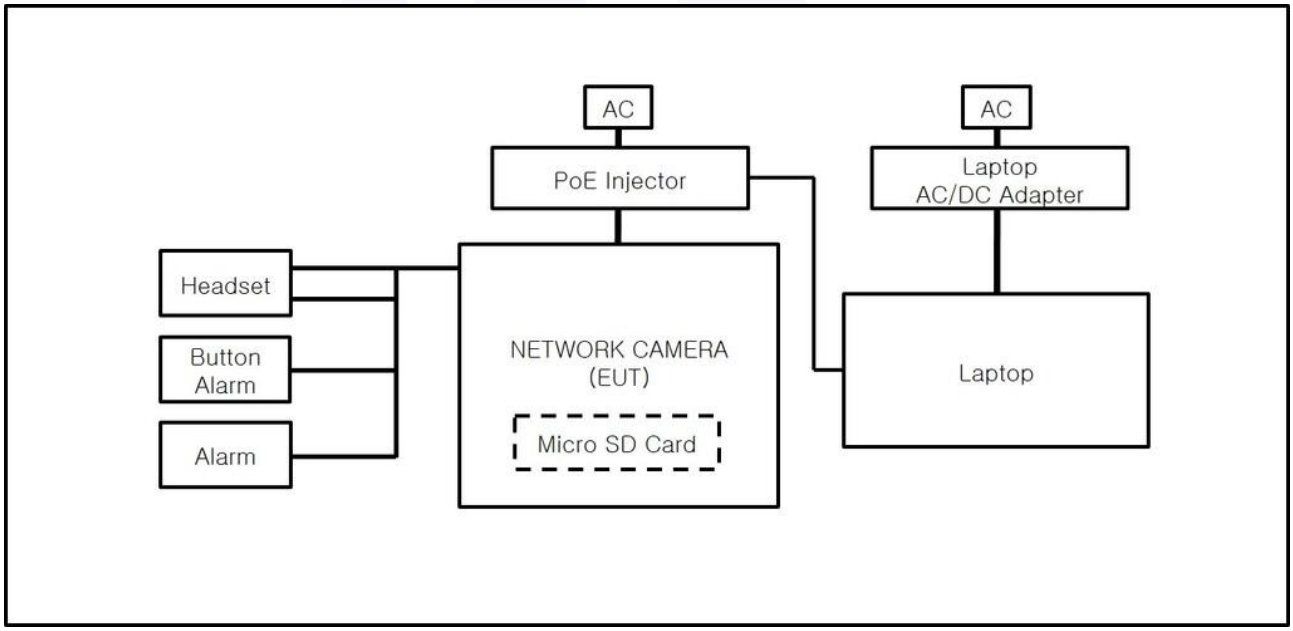
4.5 Test operating S/W

Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd.

4.6 Configuration



Mode 1



Mode 2

5 Measurement Procedure

- Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 ㎑ to 30 ㎒. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

- Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below 1 ㎓ at 10 m or 3 m distance and a Peak and Average detector above 1 ㎓ at 3 m distance. Test was proceeded worst case test mode and cable configuration. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m (Radiated Emissions(Below 1 ㎓)) and 1 m (Radiated Emissions(Above 1 ㎓)) and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4 or CISPR 32.

♦ Calculation

- Conducted Emissions

QuasiPeak[㏈uV] / CAverage [㏈uV] = Reading Value[㏈uV] + Corr. [㏈]
QuasiPeak / CAverage : The Final Value
Reading Value : Not shown in the table.
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

- Radiated Emissions(Below 1 ㎓)

Result(QP) [㏈(㎶/m)] = (Reading(QP)[㏈(㎶)] + c.f[㏈(1/m)]
Margin(QP)[㏈] = Limit[㏈(㎶/m)] - Result(QP) [㏈(㎶/m)]
Reading(QP) : Reading value, Result(QP) : Reading value + Factor value
Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

- Radiated Emissions(Above 1 ㎓)

Result(PK/CAV) [㏈(㎶/m)] = (Reading(PK/CAV)[㏈(㎶)] + c.f[㏈(1/m)]
Margin(PK/CAV)[㏈] = Limit[㏈(㎶/m)] - Result(PK/CAV) [㏈(㎶/m)]
Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value
Limit(PK/CAV) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

6 Test Item

6.1 Conducted Emissions at Mains Power Ports

6.1.1 Test Equipment

Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SHIELD ROOM #6	-	DYMSTEC	-	-	-	■
EMC32 Measurement Software	EMC32	R&S	9.12.00	-	-	■
EMI TEST RECEIVER	ESR3	Rohde & Schwarz	101783	2024-11-06	2025-11-06	■
LISN	ENV216	Rohde & Schwarz	101786	2025-01-09	2026-01-09	■
ARTIFICIAL MAINS NETWORK	ESH2-Z5	Rohde & Schwarz	100450	2024-11-06	2025-11-06	■
PULSE LIMITER	ESH3-Z2	Rohde & Schwarz	101915	2024-11-06	2025-11-06	■

6.1.2 Test Location : SHIELD ROOM #6

6.1.3 Test Conditions :

Temperature	Relative Humidity
(25.4 ~ 25.4) °C	(57.2 ~ 57.2) % R.H.

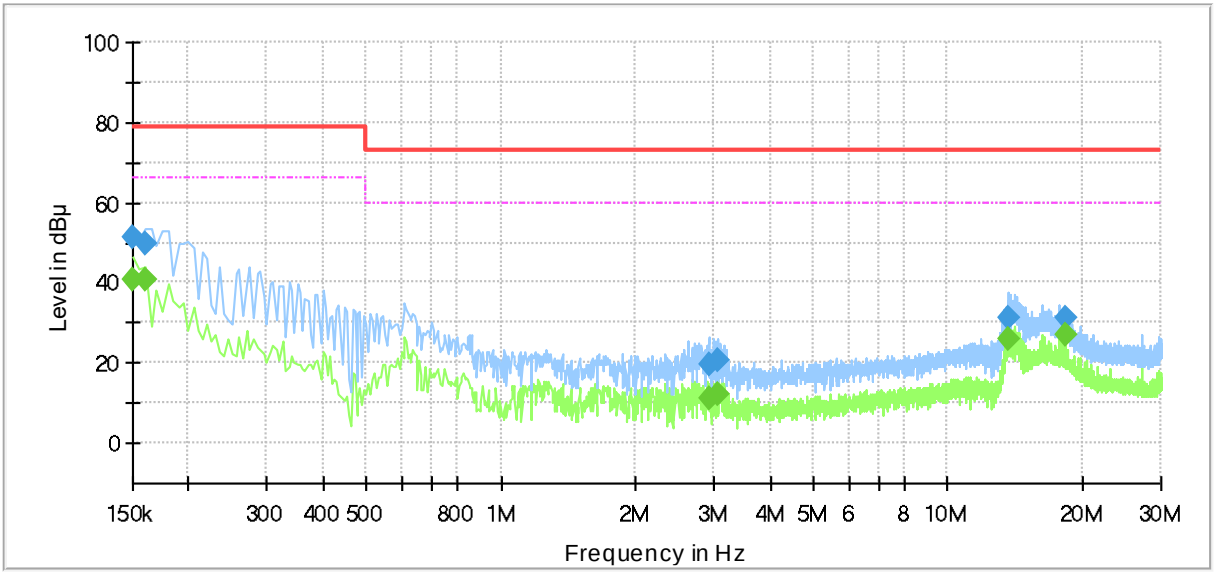
6.1.4 Test Result

○ Test Date : 2025-10-05

● Test Mode : Mode 1

Test Report

Test Description:	Conducted Emission
Job No.:	KES-EM253472
Phase:	L
Mode:	Mode 1
Operator Name:	KES



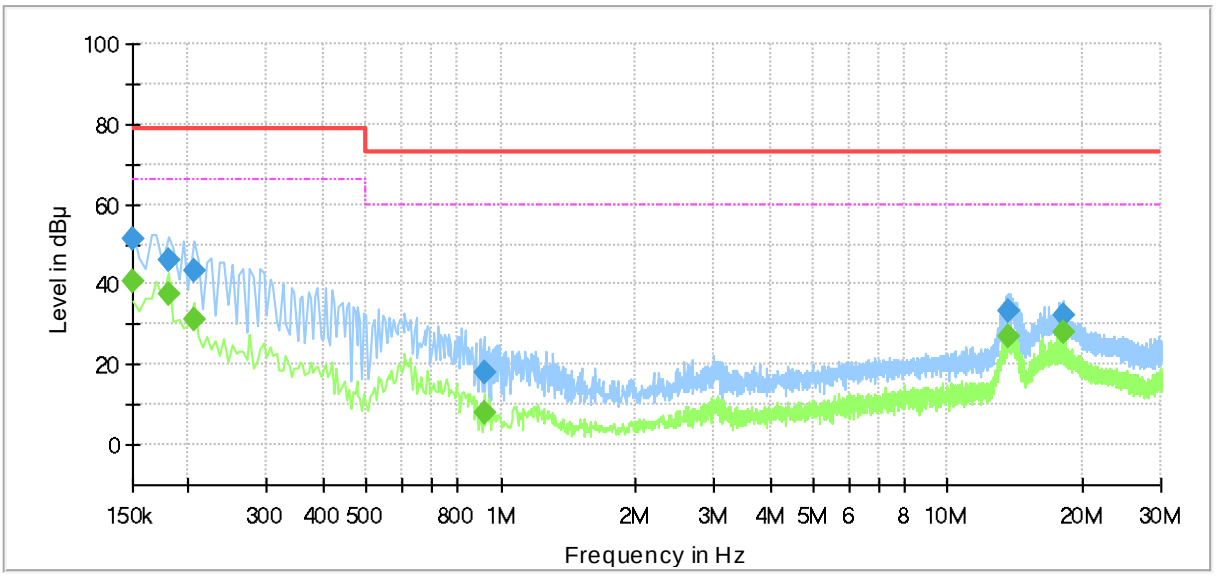
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	40.60	66.00	25.40	1000.0	9.000	L1	19.5
0.150000	51.43	---	79.00	27.57	1000.0	9.000	L1	19.5
0.160000	---	40.76	66.00	25.24	1000.0	9.000	L1	19.5
0.160000	49.83	---	79.00	29.17	1000.0	9.000	L1	19.5
2.915000	---	11.37	60.00	48.63	1000.0	9.000	L1	19.7
2.915000	19.59	---	73.00	53.41	1000.0	9.000	L1	19.7
3.045000	---	12.46	60.00	47.54	1000.0	9.000	L1	19.7
3.045000	20.71	---	73.00	52.29	1000.0	9.000	L1	19.7
13.695000	---	25.79	60.00	34.21	1000.0	9.000	L1	20.2
13.695000	31.45	---	73.00	41.55	1000.0	9.000	L1	20.2
18.305000	---	27.17	60.00	32.83	1000.0	9.000	L1	20.3
18.305000	31.27	---	73.00	41.73	1000.0	9.000	L1	20.3

○ Test Date : 2025-10-05
● Test Mode : Mode 1

Test Report

Test Description:	Conducted Emission
Job No.:	KES-EM253472
Phase:	N
Mode:	Mode 1
Operator Name:	KES



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	40.61	66.00	25.39	1000.0	9.000	N	19.5
0.150000	51.42	---	79.00	27.58	1000.0	9.000	N	19.5
0.180000	---	37.52	66.00	28.48	1000.0	9.000	N	19.5
0.180000	46.06	---	79.00	32.94	1000.0	9.000	N	19.5
0.205000	---	31.40	66.00	34.60	1000.0	9.000	N	19.5
0.205000	43.18	---	79.00	35.82	1000.0	9.000	N	19.5
0.915000	---	8.20	60.00	51.80	1000.0	9.000	N	19.6
0.915000	18.22	---	73.00	54.78	1000.0	9.000	N	19.6
13.710000	---	27.09	60.00	32.91	1000.0	9.000	N	20.2
13.710000	33.22	---	73.00	39.78	1000.0	9.000	N	20.2
18.245000	---	27.87	60.00	32.13	1000.0	9.000	N	20.3
18.245000	32.28	---	73.00	40.72	1000.0	9.000	N	20.3

6.1.5 Remark

Complies with the test requirements.

6.2 Conducted Emissions at Telecommunication Ports

6.2.1 Test Equipment

Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SHIELD ROOM #6	-	DYMSTEC	-	-	-	■
EMC32 Measurement Software	EMC32	R&S	9.12.00	-	-	■
EMI TEST RECEIVER	ESR3	Rohde & Schwarz	101783	2024-11-06	2025-11-06	■
LISN	ENV216	Rohde & Schwarz	101786	2025-01-09	2026-01-09	■
ARTIFICIAL MAINS NETWORK	ESH2-Z5	Rohde & Schwarz	100450	2024-11-06	2025-11-06	■
PULSE LIMITER	ESH3-Z2	Rohde & Schwarz	101915	2024-11-06	2025-11-06	■
8-WIRE ISN CAT3,5	ENY81	Rohde & Schwarz	100174	2024-11-12	2025-11-12	■

6.2.2 Test Location : SHIELD ROOM #6

6.2.3 Test Conditions :

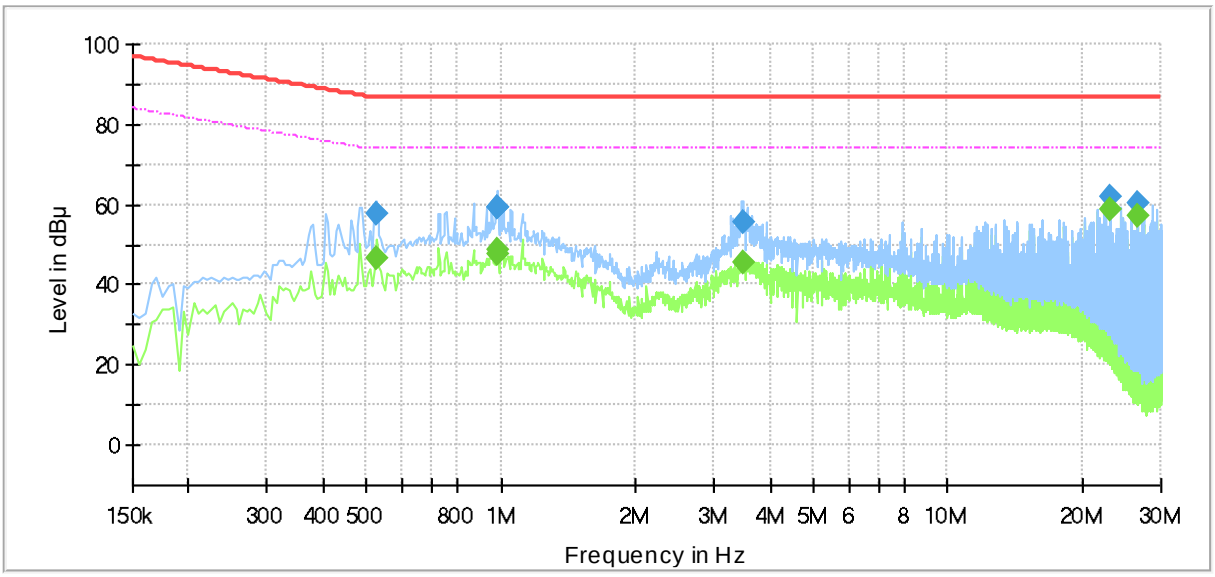
Temperature	Relative Humidity
(25.4 ~ 25.4) °C	(57.2 ~ 57.2) % R.H.

6.2.4 Test Result

○ Test Date : 2025-10-05
● Test Mode : Mode 1

Test Report

Test Description:	Telecommunication Emission
Job No.:	KES-EM253472
Mode :	Mode 1
Speed :	100 Mbps
Operator Name:	KES



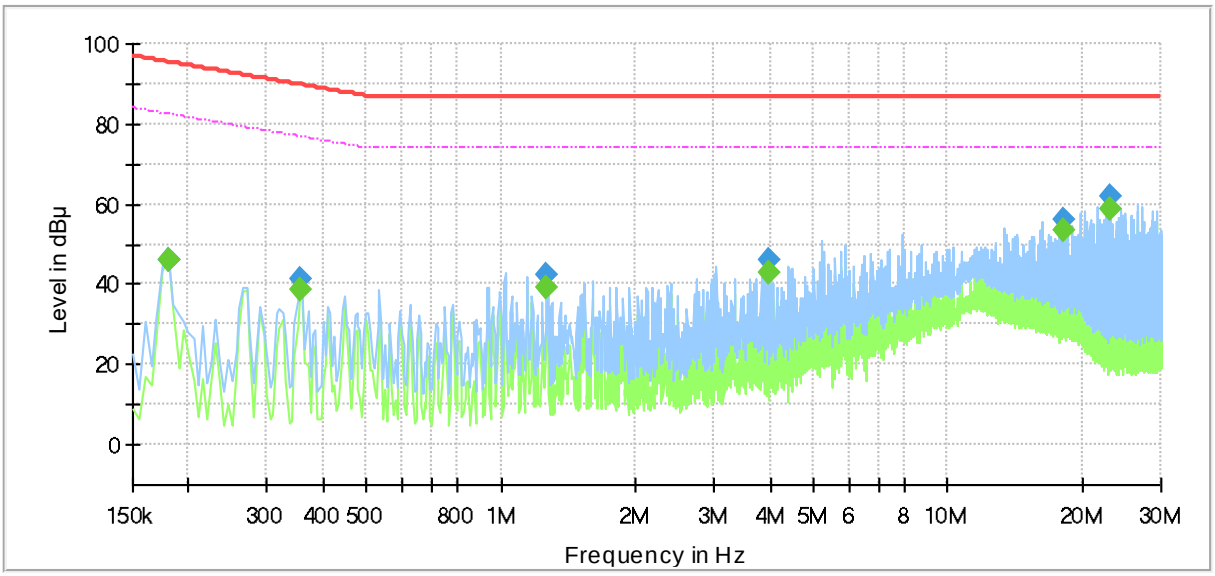
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.525000	---	46.79	74.00	27.21	1000.0	9.000	Single Line	19.5
0.525000	57.73	---	87.00	29.27	1000.0	9.000	Single Line	19.5
0.980000	---	47.87	74.00	26.13	1000.0	9.000	Single Line	19.4
0.980000	59.41	---	87.00	27.59	1000.0	9.000	Single Line	19.4
0.985000	---	48.56	74.00	25.44	1000.0	9.000	Single Line	19.4
0.985000	59.35	---	87.00	27.65	1000.0	9.000	Single Line	19.4
3.470000	---	45.67	74.00	28.33	1000.0	9.000	Single Line	19.4
3.470000	55.49	---	87.00	31.51	1000.0	9.000	Single Line	19.4
23.130000	---	58.62	74.00	15.38	1000.0	9.000	Single Line	20.1
23.130000	61.80	---	87.00	25.20	1000.0	9.000	Single Line	20.1
26.610000	---	57.07	74.00	16.93	1000.0	9.000	Single Line	20.1
26.610000	60.11	---	87.00	26.89	1000.0	9.000	Single Line	20.1

○ Test Date : 2025-10-05
● Test Mode : Mode 2

Test Report

Test Description:	Telecommunication Emission
Job No.:	KES-EM253472
Mode :	Mode 2
Speed :	100 Mbps
Operator Name:	KES



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.180000	---	46.26	82.49	36.23	1000.0	9.000	Single Line	19.7
0.180000	46.28	---	95.49	49.21	1000.0	9.000	Single Line	19.7
0.355000	---	38.51	76.84	38.33	1000.0	9.000	Single Line	19.5
0.355000	41.33	---	89.84	48.51	1000.0	9.000	Single Line	19.5
1.265000	---	39.37	74.00	34.63	1000.0	9.000	Single Line	19.4
1.265000	42.60	---	87.00	44.40	1000.0	9.000	Single Line	19.4
3.955000	---	42.71	74.00	31.29	1000.0	9.000	Single Line	19.5
3.955000	45.82	---	87.00	41.18	1000.0	9.000	Single Line	19.5
18.245000	---	53.49	74.00	20.51	1000.0	9.000	Single Line	19.8
18.245000	56.24	---	87.00	30.76	1000.0	9.000	Single Line	19.8
23.130000	---	58.81	74.00	15.19	1000.0	9.000	Single Line	20.1
23.130000	61.93	---	87.00	25.07	1000.0	9.000	Single Line	20.1

6.2.5 Remark

Complies with the test requirements.

6.3 Radiated Emissions(Below 1 ㎓)

6.3.1 Test Equipment

Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #4(10 m)	-	DYMSTEC	-	-	-	■
EP5/RE Software	EP5/RE	TOYO	6.0.0	-	-	■
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100551	2025-02-13	2026-02-13	■
AMPLIFIER	SCU 01	Rohde & Schwarz	100603	2024-11-06	2025-11-06	■
BILOG ANTENNA	VULB 9168	SCHWARZBECK	9168-461	2024-05-09	2026-05-09	■
ATTENUATOR	6806.17.A	HUBER+SUHNER	-	2025-02-13	2026-02-13	■

6.3.2 Test Location : SEMI ANECHOIC CHAMBER #4(10 m) Measurement Distance : □ 3 m, ■ 10 m

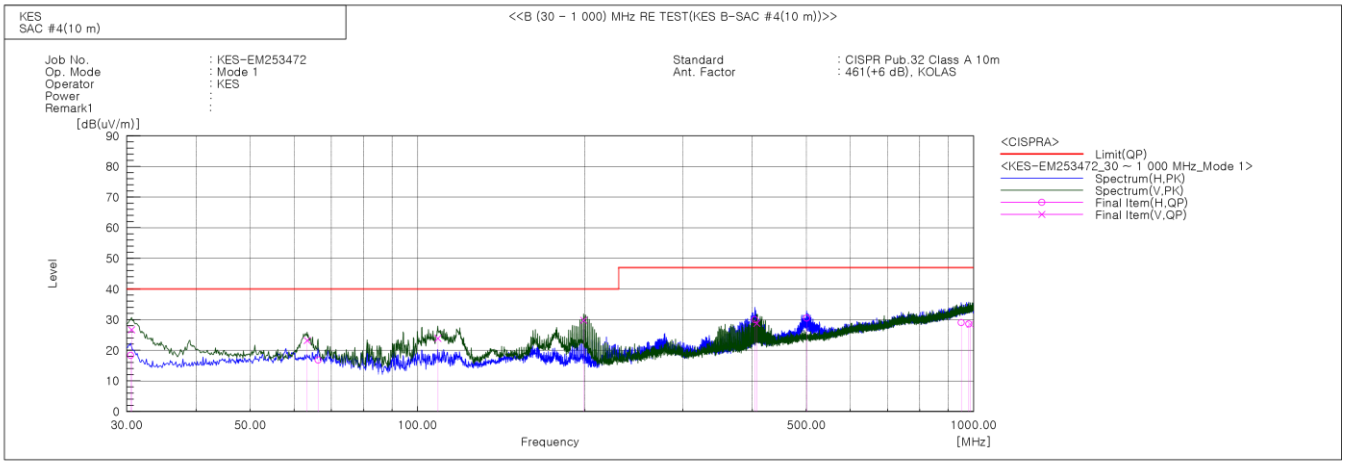
6.3.3 Test Conditions :

Temperature	Relative Humidity
(23.1 ~ 23.1) °C	(57.1 ~ 57.2) % R.H.

6.3.4 Test Result

○ Test Date : 2025-10-05

● Test Mode : Mode 1



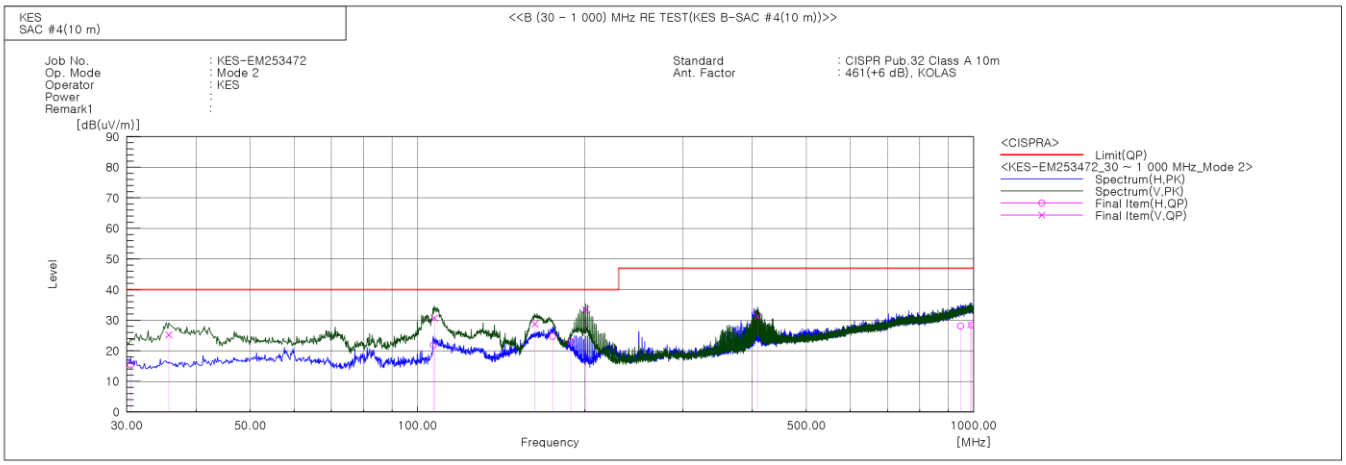
Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	30.485	H	41.1	-22.8	18.3	40.0	21.7	400.0	113.0	
2	30.606	V	49.4	-22.7	26.7	40.0	13.3	167.0	70.0	
3	63.344	V	44.9	-21.7	23.2	40.0	16.8	100.0	88.0	
4	66.254	H	38.9	-22.1	16.8	40.0	23.2	397.0	197.0	
5	108.813	V	47.6	-23.7	23.9	40.0	16.1	149.0	273.0	
6	199.023	V	51.8	-22.0	29.8	40.0	10.2	112.0	198.0	
7	404.178	H	43.5	-13.5	30.0	47.0	17.0	353.0	348.0	
8	407.330	V	42.2	-13.4	28.8	47.0	18.2	143.0	84.0	
9	500.571	H	40.7	-10.2	30.5	47.0	16.5	388.0	137.0	
10	949.803	H	29.6	-0.6	29.0	47.0	18.0	384.0	344.0	
11	980.358	H	28.7	-0.1	28.6	47.0	18.4	365.0	218.0	
12	985.571	V	28.5	0.0	28.5	47.0	18.5	159.0	179.0	

※ The data is the result measured by the detector in Quasi-Peak mode on the Peak graph.

○ Test Date : 2025-10-05

● Test Mode : Mode 2



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	30.485	H	38.2	-22.8	15.4	40.0	24.6	380.0	159.0	
2	35.699	V	47.5	-22.3	25.2	40.0	14.8	163.0	345.0	
3	106.751	H	45.7	-23.9	21.8	40.0	18.2	343.0	341.0	
4	107.236	V	54.6	-23.9	30.7	40.0	9.3	152.0	209.0	
5	162.526	V	48.4	-19.6	28.8	40.0	11.2	119.0	19.0	
6	175.015	H	45.2	-20.5	24.7	40.0	15.3	375.0	211.0	
7	188.474	H	44.7	-21.6	23.1	40.0	16.9	396.0	215.0	
8	200.599	V	55.4	-22.0	33.4	40.0	6.6	100.0	159.0	
9	408.785	V	44.5	-13.3	31.2	47.0	15.8	140.0	177.0	
10	947.135	H	28.7	-0.6	28.1	47.0	18.9	361.0	137.0	
11	986.905	V	28.5	0.0	28.5	47.0	18.5	118.0	80.0	
12	990.906	H	28.3	0.1	28.4	47.0	18.6	327.0	81.0	

※ The data is the result measured by the detector in Quasi-Peak mode on the Peak graph.

6.3.5 Remark

Complies with the test requirements.

6.4 Radiated Emissions(Above 1 ㎓)

6.4.1 Test Equipment

Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #3	-	DYMSTEC	-	-	-	■
EP5/RE Software	EP5/RE	TOYO	6.0.0	-	-	■
PREAMPLIFIER	8449B	AGILENT	3008A01967	2025-03-05	2026-03-05	■
ATTENUATOR	8491A	HP	35496	2025-02-13	2026-02-13	■
DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H. SYSTEM,INC	781	2025-03-05	2026-03-05	■
EMI TEST RECEIVER	ESR7	Rohde & Schwarz	101190	2025-04-30	2026-04-30	■

6.4.2 Test Location : SEMI ANECHOIC CHAMBER #3

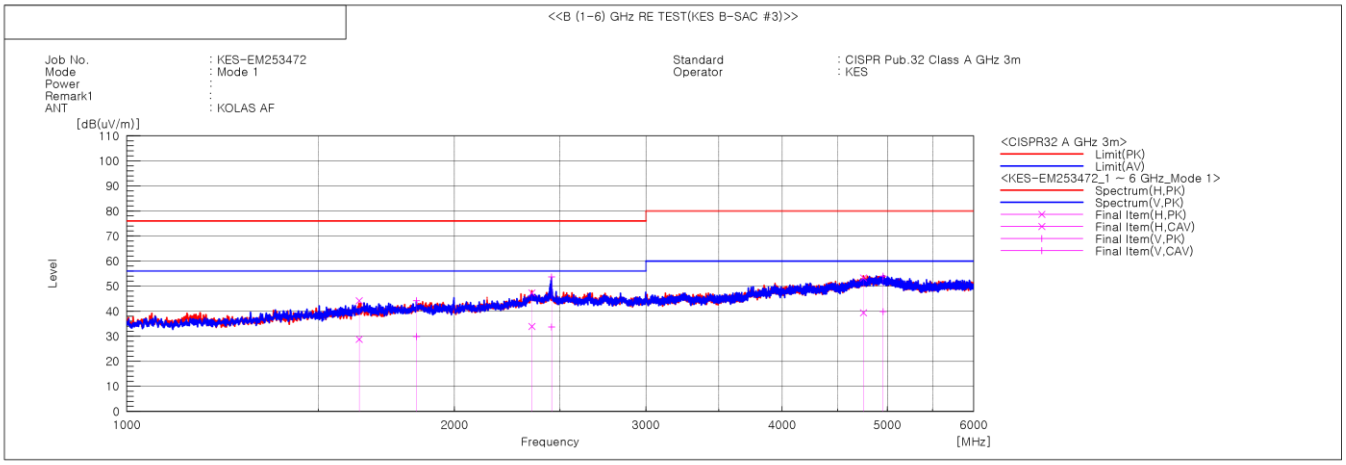
6.4.3 Test Conditions :

Temperature	Relative Humidity
(23.3 ~ 23.4) °C	(56.3 ~ 56.4) % R.H.

6.4.4 Test Result

○ Test Date : 2025-10-06

● Test Mode : Mode 1



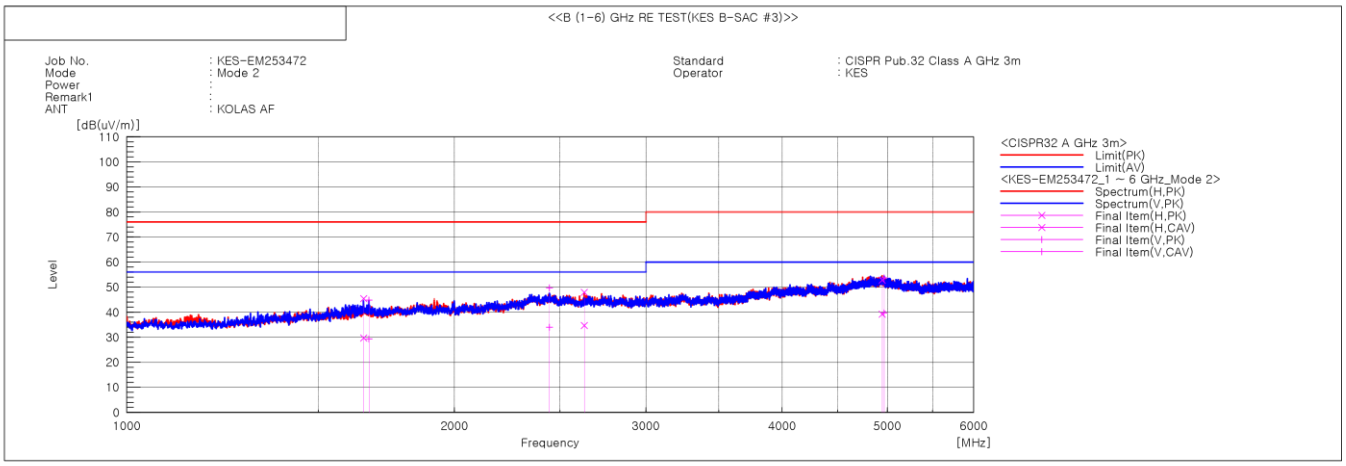
Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	2356.875	H	40.0	26.6	7.3	47.3	33.9	76.0	56.0	28.7	22.1	100.0	21.6	
2	2456.250	V	46.1	26.1	7.6	53.7	33.7	76.0	56.0	22.3	22.3	100.0	70.4	
3	1635.000	H	42.7	27.3	1.5	44.2	28.8	76.0	56.0	31.8	27.2	100.0	259.7	
4	4752.500	H	37.6	23.7	15.7	53.3	39.4	80.0	60.0	26.7	20.6	100.0	275.7	
5	1845.625	V	40.3	26.0	3.9	44.2	29.9	76.0	56.0	31.8	26.1	100.0	277.5	
6	4954.375	V	37.3	23.1	16.7	54.0	39.8	80.0	60.0	26.0	20.2	100.0	343.0	

※ The data is the result of measured by the detector in PK and CISPR Average on the Peak graph.

○ Test Date : 2025-10-06

● Test Mode :



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1650.625	H	43.7	28.0	1.7	45.4	29.7	76.0	56.0	30.6	26.3	100.0	273.4	
2	1669.375	V	42.8	27.3	2.0	44.8	29.3	76.0	56.0	31.2	26.7	100.0	301.9	
3	2445.245	V	42.1	26.4	7.6	49.7	34.0	76.0	56.0	26.3	22.0	100.0	336.7	
4	2632.590	H	40.3	27.1	7.6	47.9	34.7	76.0	56.0	28.1	21.3	100.0	243.6	
5	4943.125	H	36.2	22.6	16.6	52.8	39.2	80.0	60.0	27.2	20.8	100.0	114.2	
6	4964.375	V	37.0	23.0	16.7	53.7	39.7	80.0	60.0	26.3	20.3	100.0	82.0	

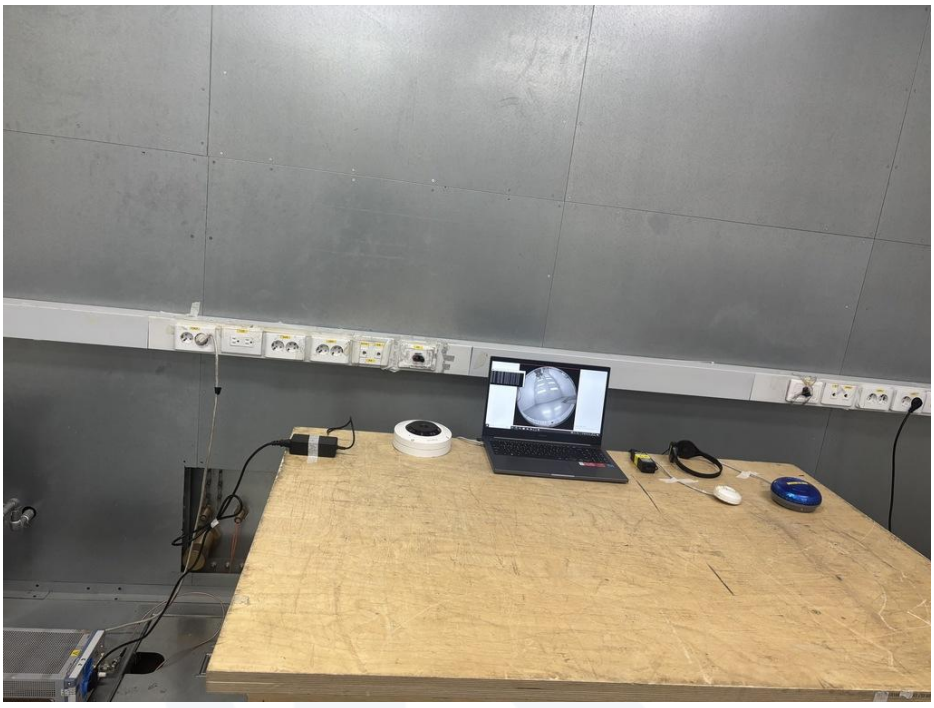
※ The data is the result of measured by the detector in PK and CISPR Average on the Peak graph.

6.4.5 Remark

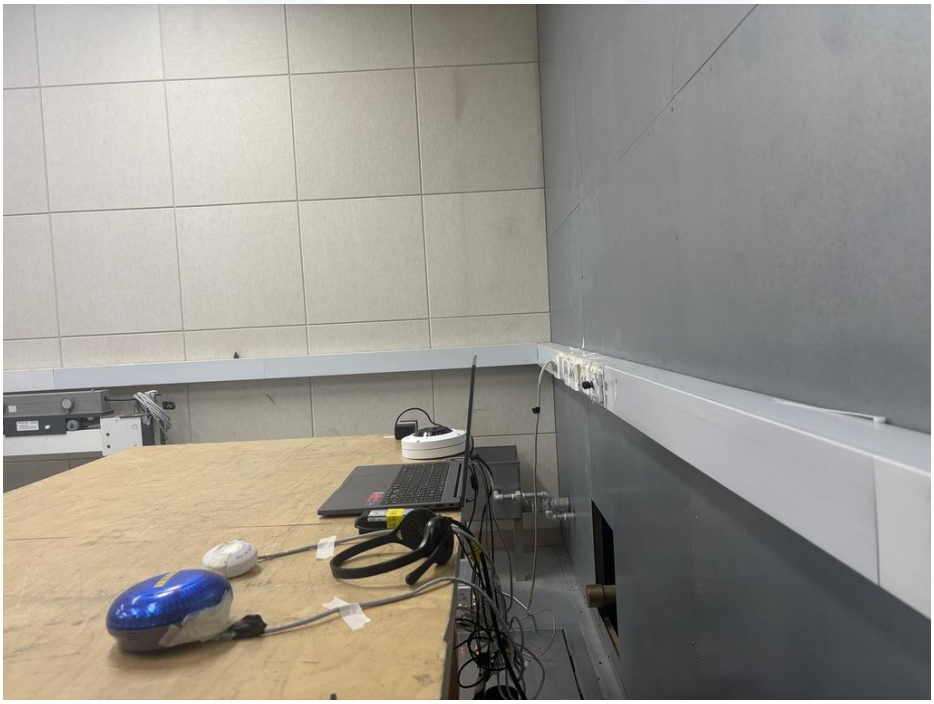
Complies with the test requirements.

7 Test Setup Photos and EUT Photographs

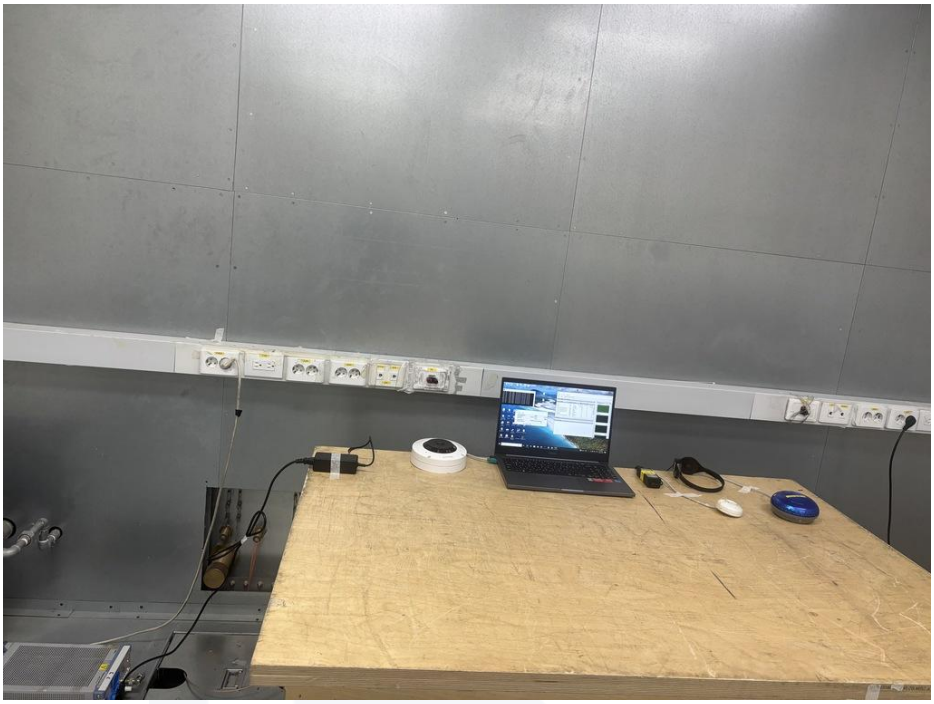
7.1 Test Setup Photos



<Conducted Emissions at Mains Power Ports - Front> Mode 1

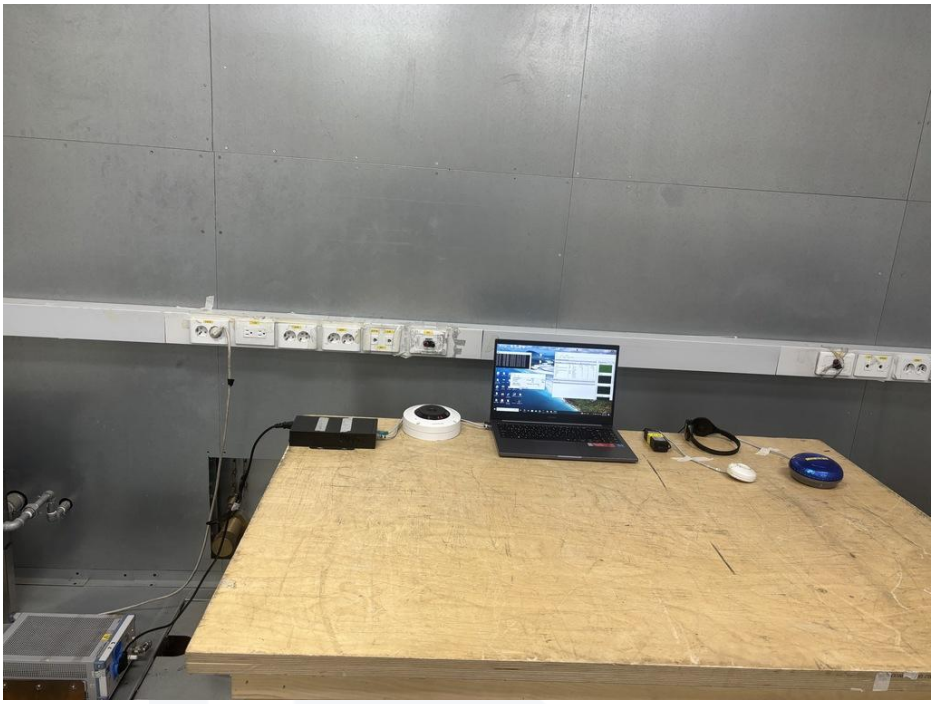


<Conducted Emissions at Mains Power Ports - Rear> Mode 1



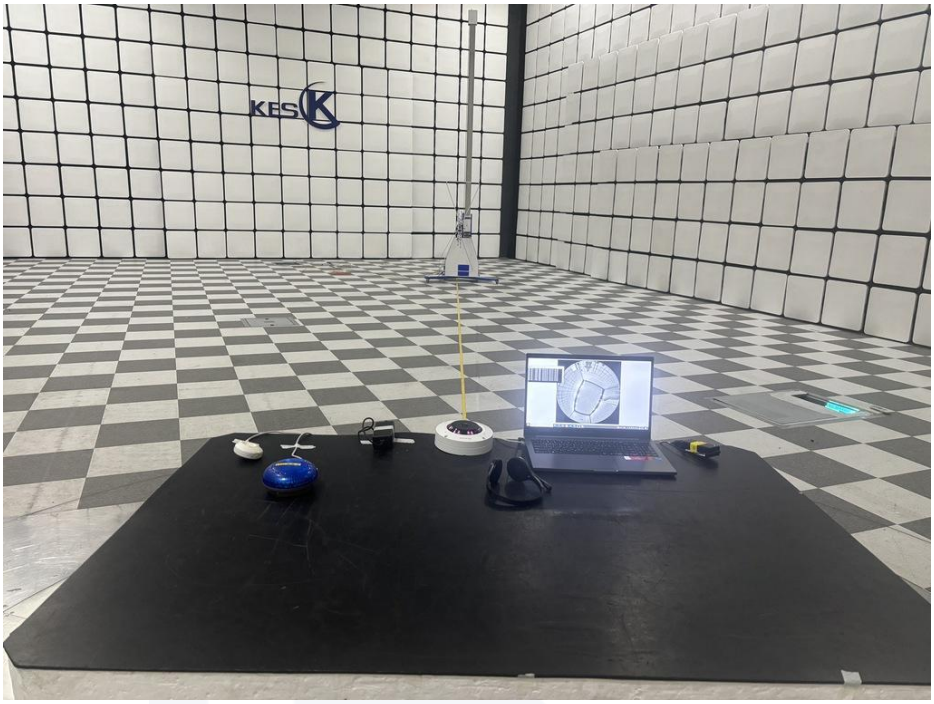
<Conducted Emissions at Telecommunication Ports - Front> Mode 1

<Conducted Emissions at Telecommunication Ports - Rear> Mode 1

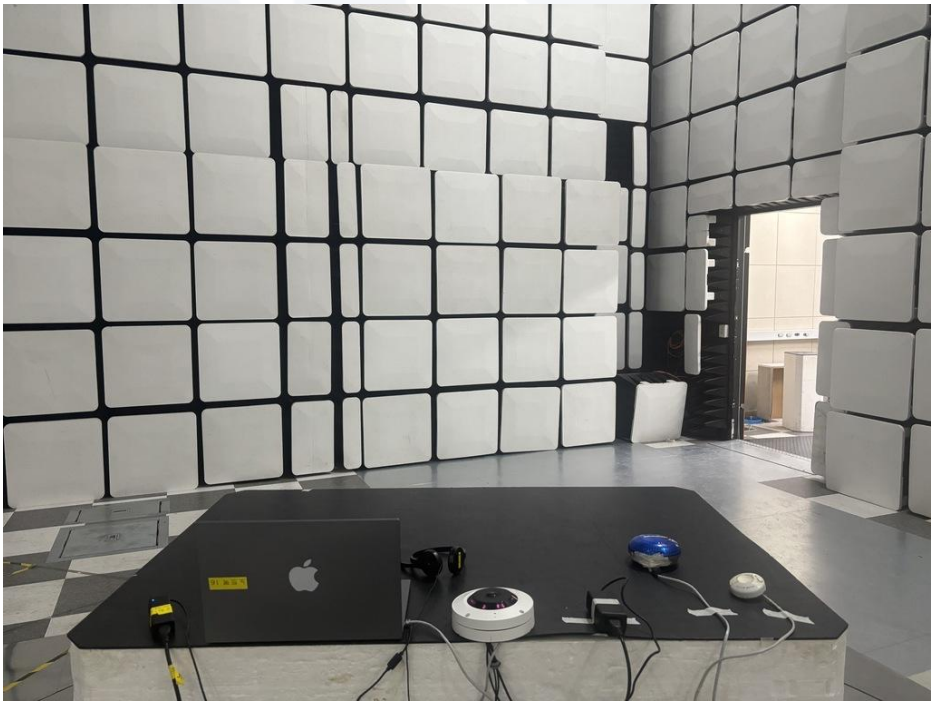


<Conducted Emissions at Telecommunication Ports - Front> Mode 2

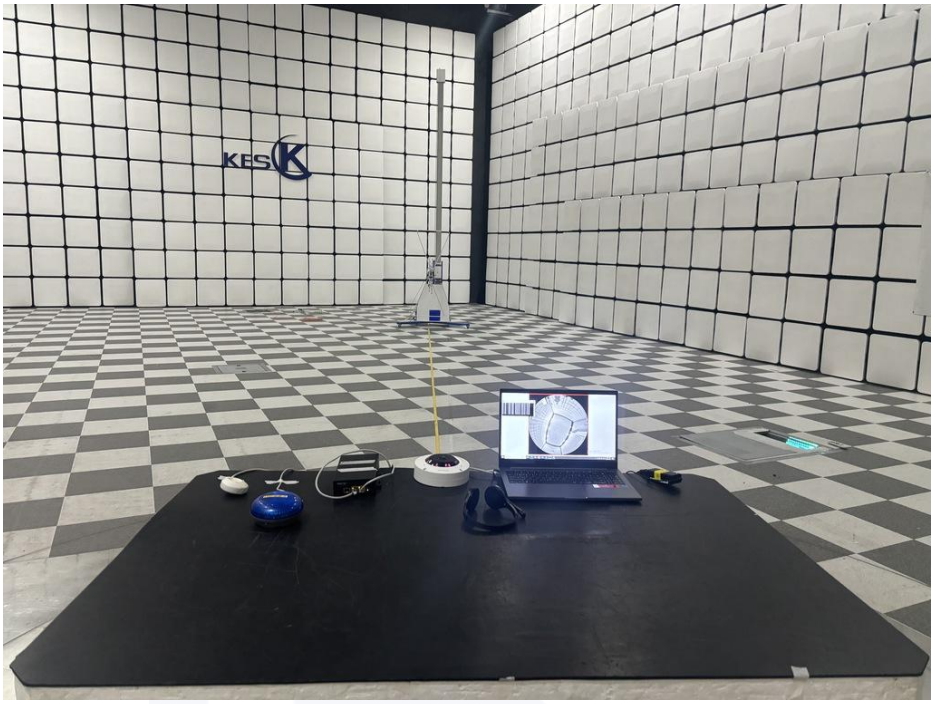
<Conducted Emissions at Telecommunication Ports - Rear> Mode 2



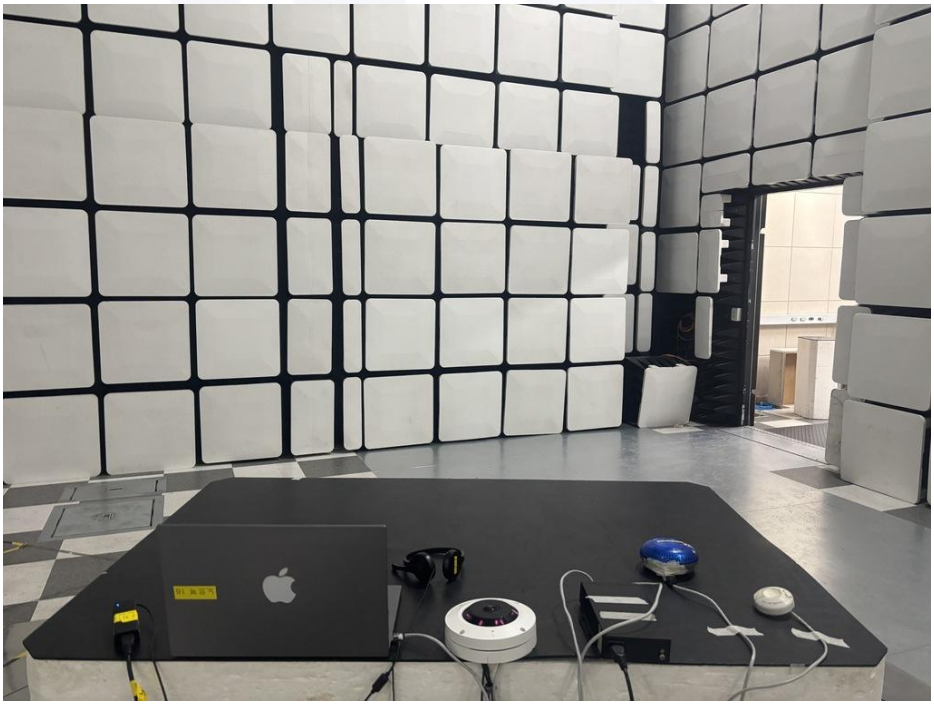
<Radiated Emissions(Below 1 ㎓) - Front> Mode 1



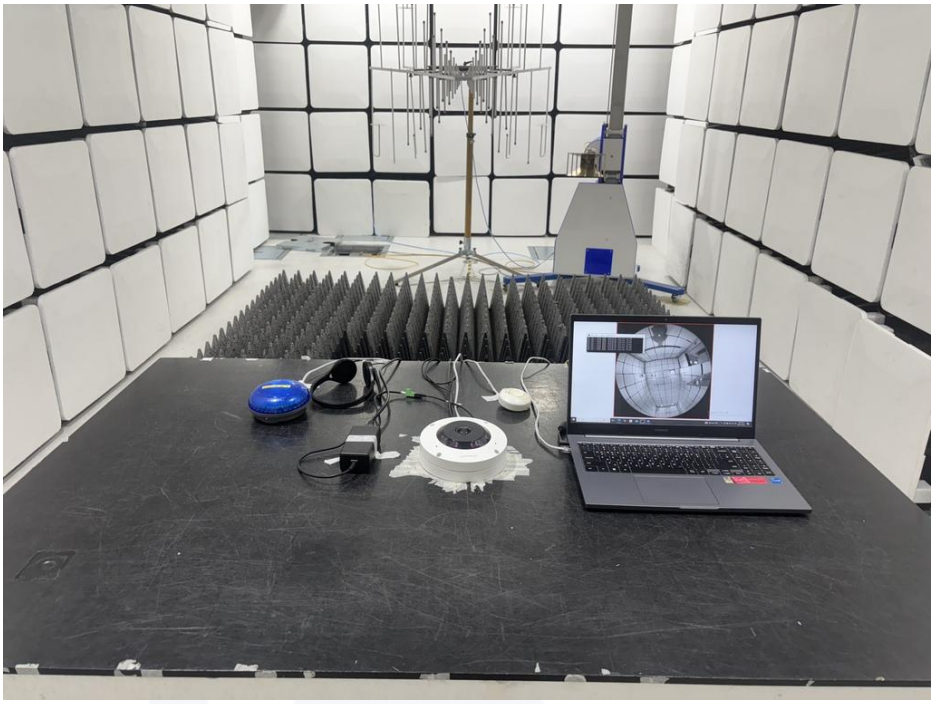
<Radiated Emissions(Below 1 ㎓) - Rear> Mode 1



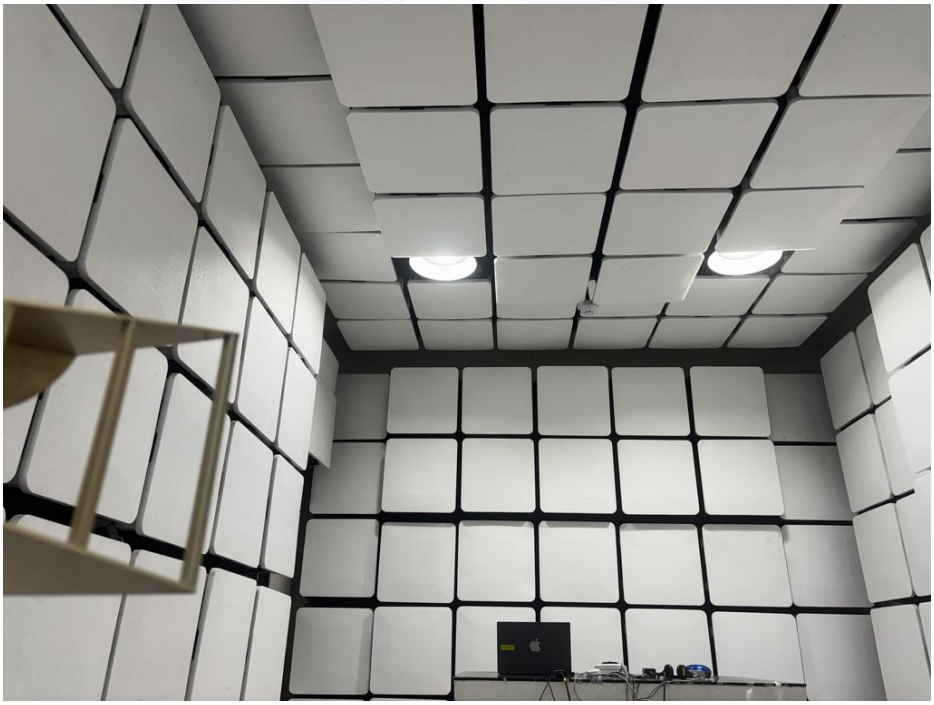
<Radiated Emissions(Below 1 ㎓) - Front> Mode 2



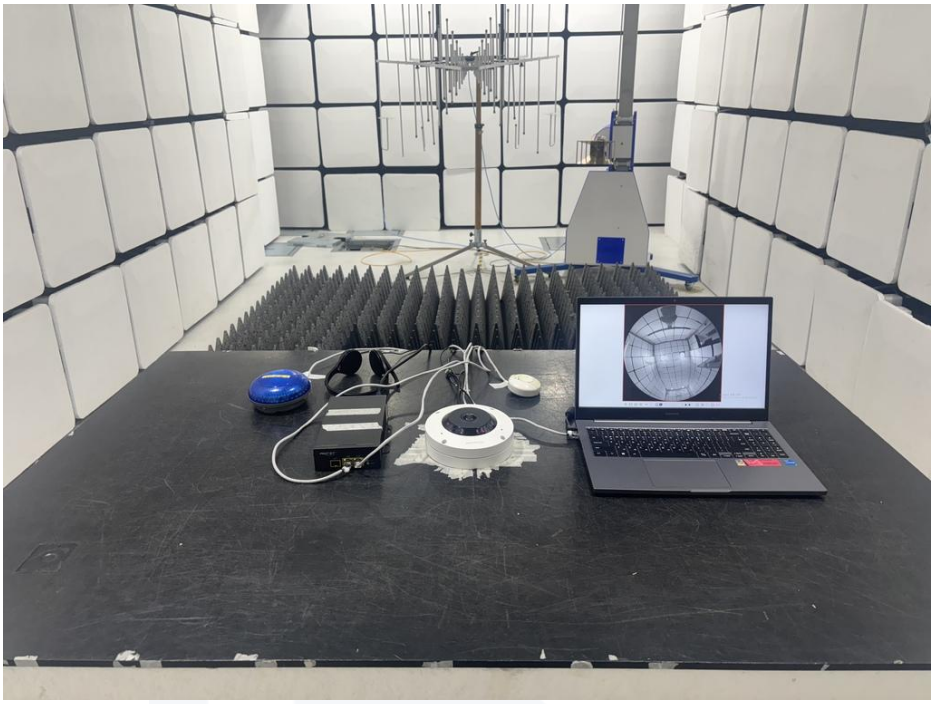
<Radiated Emissions(Below 1 ㎓) - Rear> Mode 2



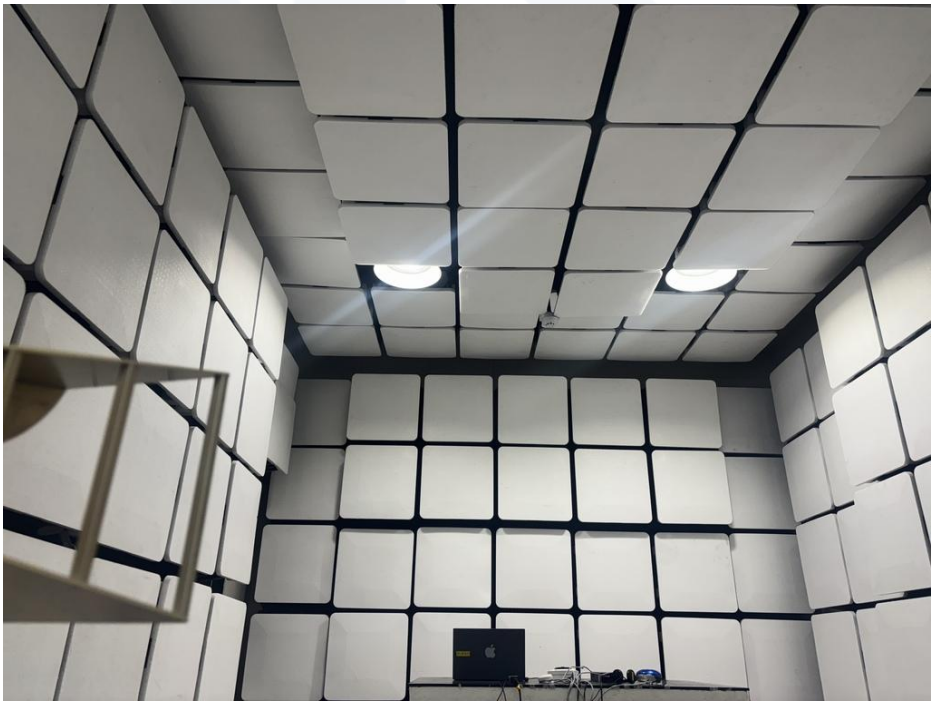
<Radiated Emissions(Above 1 ㎓) - Front> Mode 1



<Radiated Emissions(Above 1 ㎓) - Rear> Mode 1

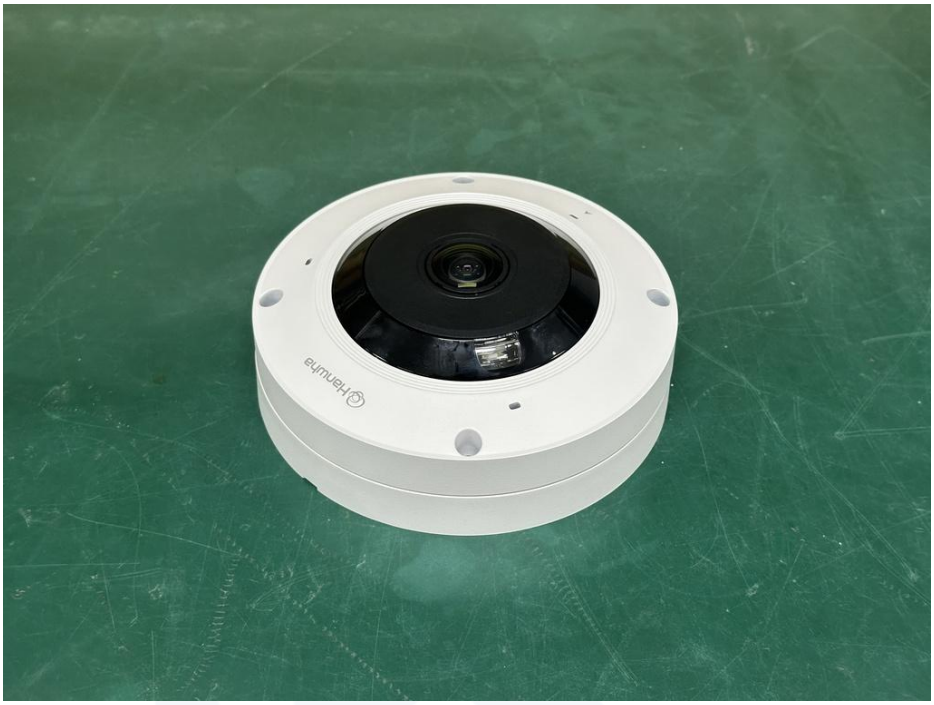


<Radiated Emissions(Above 1 ㎓) - Front> Mode 2



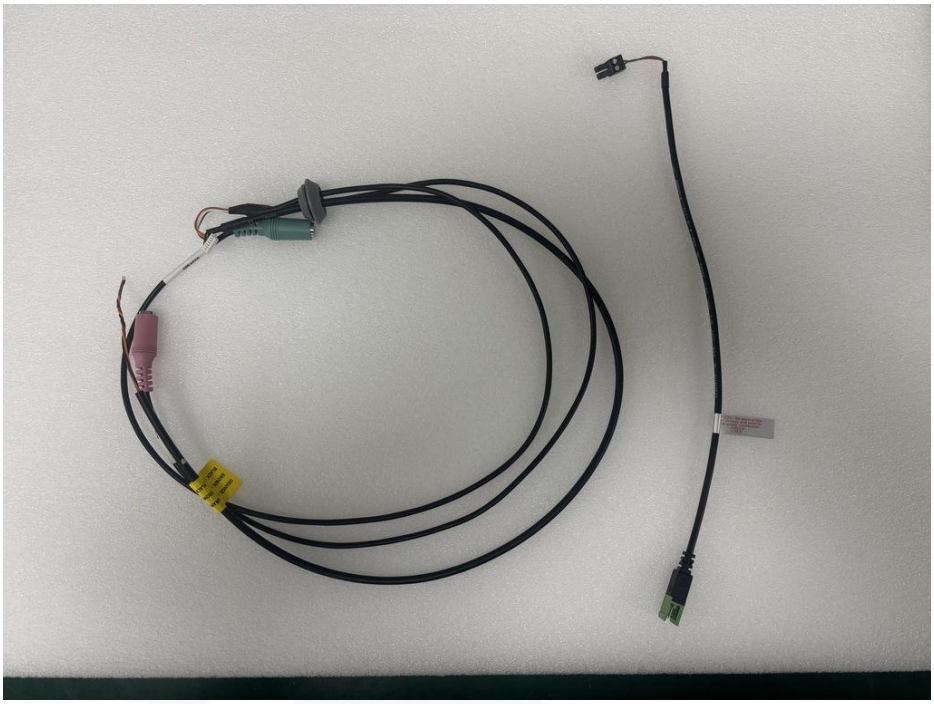
<Radiated Emissions(Above 1 ㎓) - Rear> Mode 2

7.2 EUT Photographs



<EUT External Photographs - Top>

<EUT External Photographs - Bottom>



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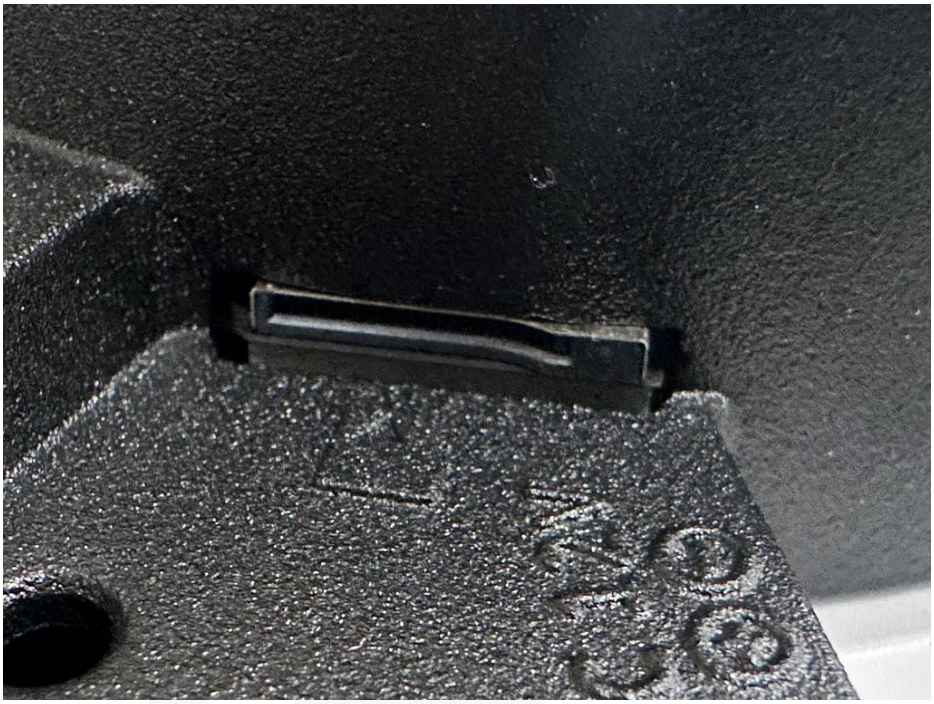
<Port-2>

<Port-3>



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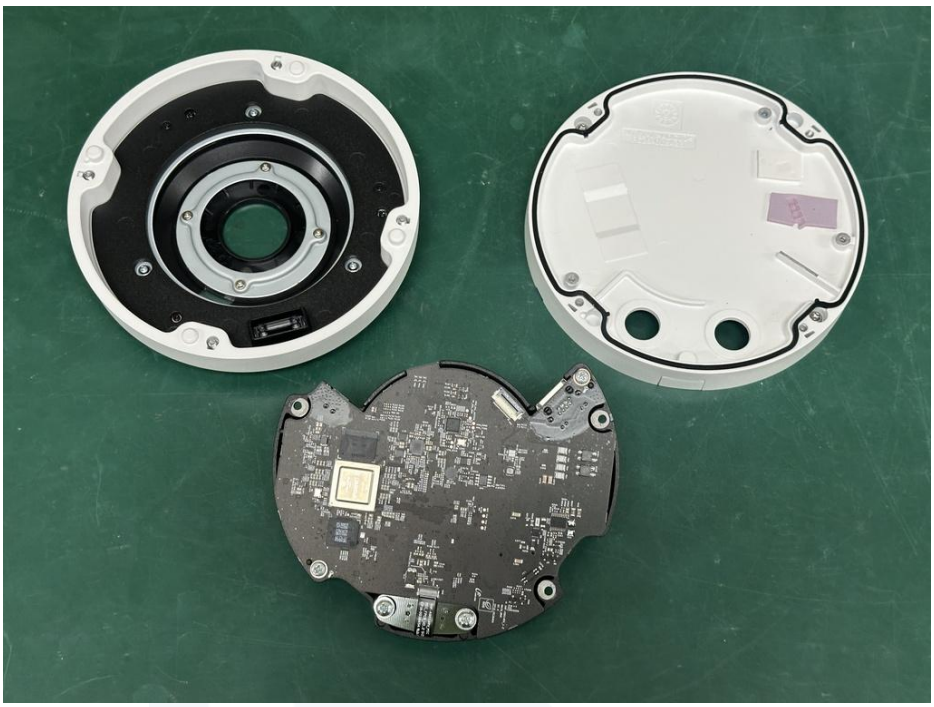

<EUT Internal Photographs>

7.3 Label

Name	:	Hanwha Vision Co., Ltd.
Product item	:	NETWORK CAMERA
Model name	:	XNF-A9014R

この装置は、クラスＡ情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 ＶＣＣＩ－Ａ

The End.