



TEST REPORT



Report No. : KES-EM253644

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KES Co., Ltd.

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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 : XND-A9085RV
- Variant model : -
- 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. 26. ~ 2025. 10. 27.

4. Location of Test : Permanent Testing Lab
○ Address : 473-21, Gayeo-ro, Yeuju-si, Gyeonggi-do, 12658, Republic of Korea

5. Test method used : AS/NZS CISPR 32:2015/AMD1:2020

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 : DongYun Lee	Name : DaeJung,Choi

2025. 11. 07.

KES Co., Ltd.

**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
2025. 11. 07.	KES-EM253644	Issued

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

- ☒ No decision rule is specified by the 1 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)



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1 Laboratory Information

1.1 Test Location

Category	Details
Address	473-21, Gayeo-ro, Yeosu-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, Yeosu-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 ☐ Class B	AC 240 V, 50 Hz

2.2 Summary of Test Results

Test Item	Test Standard	Test Result	Remark
Conducted Emissions at Mains Power Ports	AS/NZS CISPR 32:2015/AMD1:2020	PASS	NOTE 1
Conducted Emissions at Telecommunication Ports		PASS	-
Radiated Emissions(Below 1 GHz)		PASS	-
Radiated Emissions(Above 1 GHz)		PASS	-
* N/A: Not Applicable			
(NOTE 1) PoE port is considered to be wired network port, so power-related test items are excluded.			

2.3 Remarks when standards applied

N/A

2.4 Variant Model Differences

N/A

2.5 Device Modifications

N/A



3 General Product Description

Division		Specificity
Internal maximum operating frequency		3.2 GHz
Power	Rated power supply	DC 12 V, PoE
	Test Power	AC 240 V, 50 Hz
I/O Ports	User port	2 Pin 1 EA, 8 Pin (MIC, SPEAKER, Alarm IN, Alarm OUT) 1 EA, RJ-45 1 EA Micro SD Card Slot 2 EA
	Unused/Administrator Port	USB Type-C 1 EA
function	Product features	NETWORK CAMERA
	Wireless function	N/A
Components		Main body 1 EA, Cable 2 EA
Others		Please refer to the specifications listed below.



	XND-A9085RV
Video	
Imaging Device	1/1.8" CMOS
Resolution	3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1512, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps(@8MP Max. 5fps)
NETD	None
Pixel Size	None
Min. Illumination	Color: 0.04Lux(F1.3, 1/30sec, 30IRE) BW: 0.004Lux(F1.3, 1/30sec, 30IRE), 0Lux(IR LED on)
Video Out	USB: Micro USB Type C for installation
Video Transmission Distance	None
Lens	
Focal Length (Zoom Ratio)	4.4~9.3mm(2.1x) motorized varifocal
Optical Zoom	None
Max. Aperture Ratio	F1.3(Wide)~F2.15(Tele)
Angular Field of View	H: 113°(Wide)~47°(Tele) V: 58°(Wide)~26°(Tele) D: 138°(Wide)~54°(Tele)
Min. Object Distance	0.5m(1.64ft)
Focus Control	Simple focus, manual
Lens Type	P-iris(IR corrected)
Mount Type	None
Optional Lens	None
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / 0°~85° / 0°~355°
Operational	
Camera Title	Displayed up to 85 characters
Direction Indicator	None
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SDR
Wide Dynamic Range	extremeWDR (120dB)
Digital Noise Reduction	SSNRV, WiseNRII(Based on AI engine)
Digital Image Stabilization	Support (built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic Dynamic Privacy Mask(Based on AI engine) - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic
Gain Control	Off / Max Gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
LDC	Support(Fill/Stretch mode)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker(2~1/30,000sec) Prefer shutter control(Based on AI engine)
Digital PTZ	None
Video Rotation	Flip, mirror, hallway view(90°/270°)



Analytics	Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle)/License plate Attributes: Person(Gender, Clothing top/bottom color, Bag), Face(Age, Gender, Mask, Glasses), Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color) Support BestShot Support Re-ID(Person) Analytics events based on AI engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Slip & fall detection, Face mask detection, Social distancing detection, 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, DC 12V output(Max. 50mA) *Support extra alarm I/O via optional I/O box
Alarm Triggers	Analytics, Network disconnection, Alarm input, Time schedule, MQTT subscription, Day/Night, Storage disruption, Case tampering
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: call generation
Audio Streaming	None
Audio In	Selectable(mic in/line in/built-in MIC)
Audio Out	Line out
Light Type	IR LED
Light Viewable Length	WiseIR PoE+: 50m(164.04ft) PoE: 30m(98.43ft)
Network	
Ethernet	Metal shielded RJ-45(10/100/1000 BASE-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: 16kHz(48Kbps) OPUS: 48kHz(64Kbps)
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, 3 virtual channel support)



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
SIP support (VoIP, Peer-to-peer)	Support
Security	None
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform
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)
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(TBD), 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 2slot Max. 2TB(1TBx2)
Memory	4GB RAM, 8GB eMMC
Environmental & Electrical	
Operating Temperature / Humidity	-25°C~+50°C(-13°F~+122°F) / 0~100% RH(condensing) Humidity control with air vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Wind Load	None
EPA(Effective Projected Area)	0.0148m ²
Certification	IP52, IK10
Input Voltage	PoE(IEEE802.3af, Class3), PoE+(IEEE802.3at Type2, Class4), 12VDC
Power Consumption	PoE+ : Max. 14.2W, typical 9.4W PoE : Max. 12.9W, typical 8.3W 12VDC: Max. 9.5W, typical 14.5W Support Wisepower - Power monitoring(Max./Current/Avg.)
Mechanical	
Color / Material	White / Aluminum Bubble: Hard-coated dome
RAL Code	RAL9003
Product Dimensions / Weight	ø160x125mm(ø6.30x4.92"), 1560g(3.44 lb)
Compatible Conduit hole / Gang	19.1mm(3/4")(M25) 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	XND-A9085RV	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
AC/DC Adaptor	2ACB022F	-	Channel Well Technology (Guangzhou) Co., Ltd.	-
PoE Injector	PT-PSE109GBRO-A	-	Dongguan PROCET Network Technology Co.,Ltd	-
LED Alarm	-	-	-	-
Button Alarm	-	-	-	-
Headset	K550	-	Britz®	-
Micro SD Card 1	-	-	Sandisk	8 GB
Micro SD Card 2	-	-	Sandisk	8 GB
Laptop	LG15N54	411NZJV044052	LG	-
Laptop Adaptor	ADP-90WH B	84ZW19F1747	DELTA ELECTRONICS(JIAN GSU) LTD.	-

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)	2 Pin	AC/DC Adaptor	2 Pin	0.8	U
	RJ-45 (LAN)	Laptop	RJ-45 (LAN)	3.1	U
	Micro SD Slot	Micro SD Card 1	Micro SD Slot	-	-
	Micro SD Slot	Micro SD Card 2	Micro SD Slot	-	-
	Alarm OUT	LED Alarm	Alarm IN	3.1	U
	Alarm IN	Button Alarm	Alarm OUT	3.3	U
	MIC	Headset	3.5 mm	2.0	U
	SPEAKER		3.5 mm		
Laptop	DC Jack	Laptop Adaptor	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
	Micro SD Slot	Micro SD Card 1	Micro SD Slot	-	-
	Micro SD Slot	Micro SD Card 2	Micro SD Slot	-	-
	Alarm OUT	LED Alarm	Alarm IN	3.1	U
	Alarm IN	Button Alarm	Alarm OUT	3.3	U
	MIC	Headset	3.5 mm	2.0	U
	SPEAKER		3.5 mm		
Laptop	DC Jack	Laptop Adaptor	DC Jack	1.5	U

* Unshielded=U, Shielded=S

**4.4 EUT Operating Mode(s)**

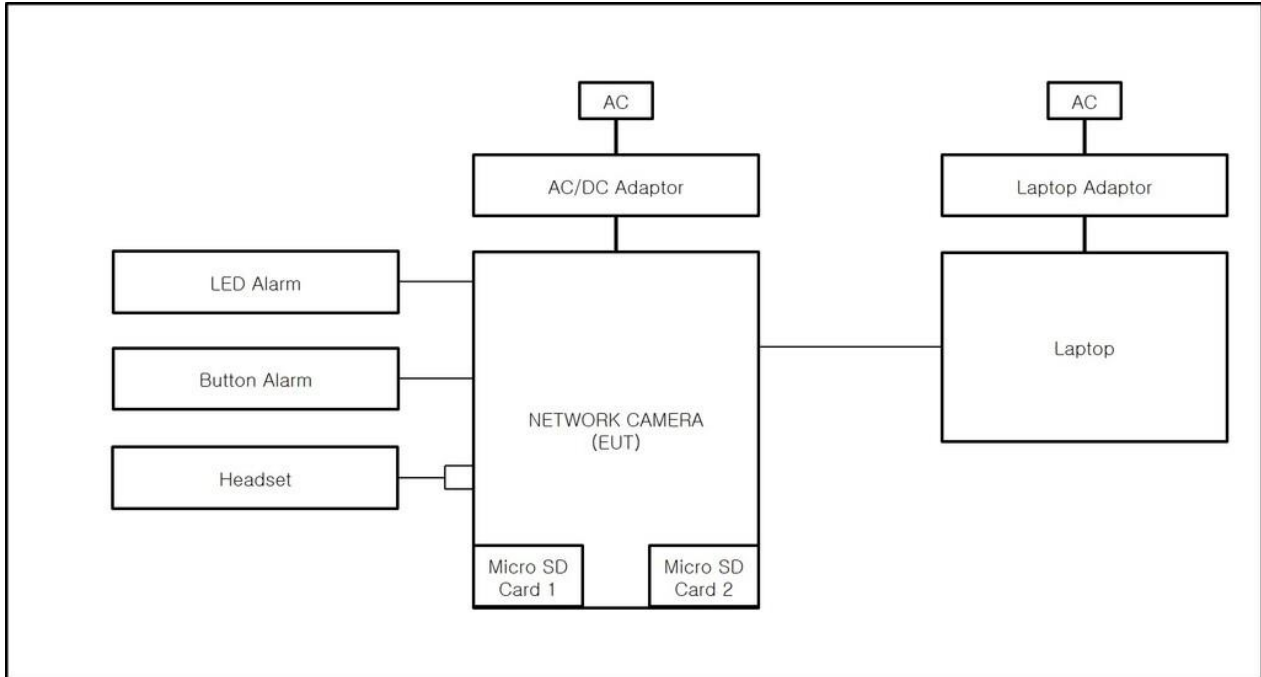
Category	Mode	Operating
Mode 1	AC/DC Adaptor	- Check the network behavior of the EUT with the laptop's ping test - View images of the camera through the Web Viewer - Play the 1 kHz tone through the Web Viewer to see the sound output with the headset
Mode 2	PoE	- When the alarm is pressed, make sure the button alarm is working - After testing, check the recording with Micro SD Card

4.5 Test operating S/W

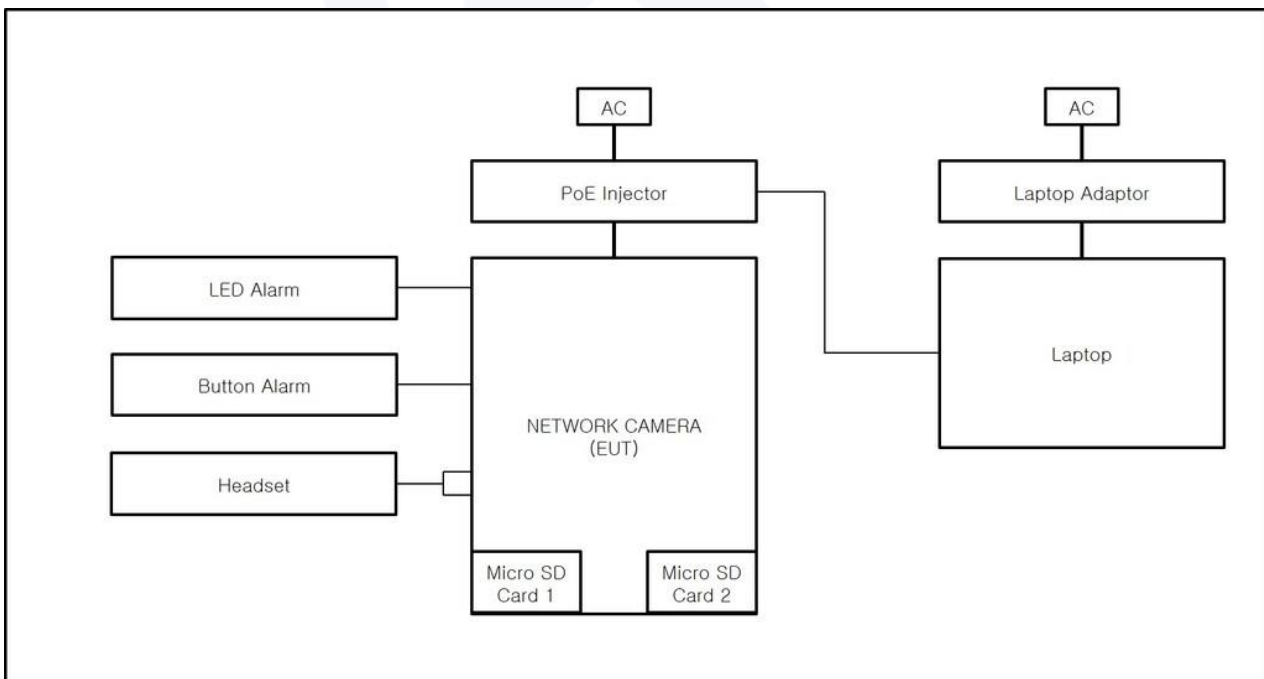
Name	Version	Manufacture Company
Web Viewer	-	HANWHA VISION VIETNAM COMPANY LIMITED



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 kHz to 30 MHz. 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 GHz at 10 m or 3 m distance and a Peak and Average detector above 1 GHz 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 GHz)) and 1 m (Radiated Emissions(Above 1 GHz)) 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

$\text{QuasiPeak[dBuV]} / \text{CAverage[dBuV]} = \text{Reading Value[dBuV]} + \text{Corr. [dB]}$

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 GHz)

$\text{Result(QP) [dB(μV/m)]} = (\text{Reading(QP)[dB(μV)]} + \text{c.f[dB(1/m)]})$

$\text{Margin(QP)[dB]} = \text{Limit[dB(μV/m)]} - \text{Result(QP) [dB(μV/m)]}$

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 GHz)

$\text{Result(PK/CAV) [dB(μV/m)]} = (\text{Reading(PK/CAV)[dB(μV)]} + \text{c.f[dB(1/m)]})$

$\text{Margin(PK/CAV)[dB]} = \text{Limit[dB(μV/m)]} - \text{Result(PK/CAV) [dB(μV/m)]}$

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
(23.8 ~ 23.8) °C	(52.4 ~ 52.4) % R.H.

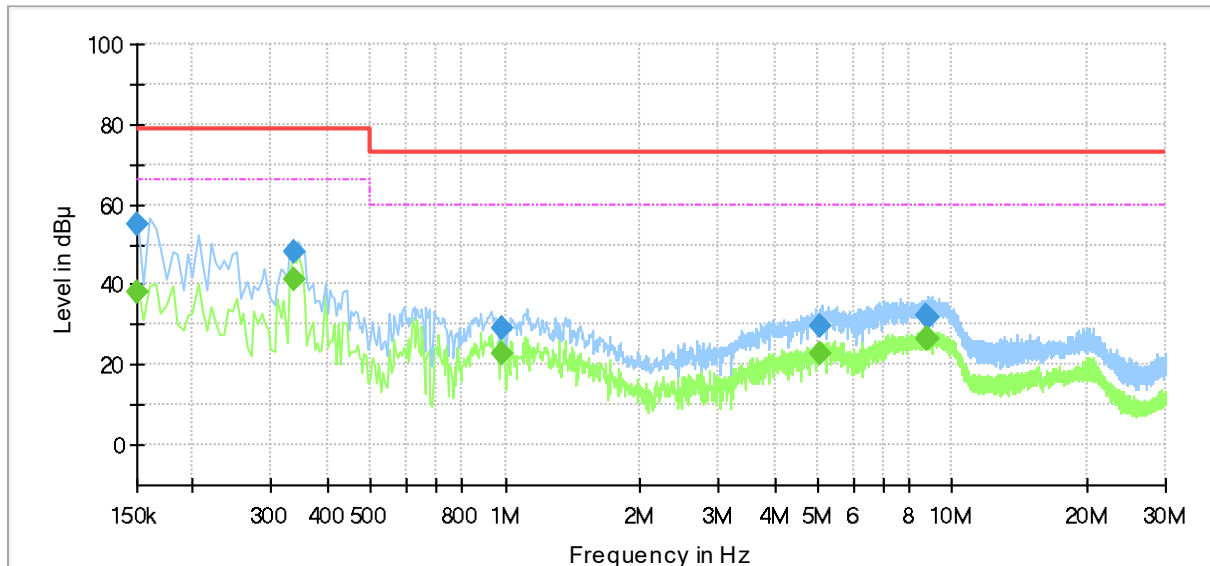


6.1.4 Test Result

- Test Date : 2025-10-26
- Test Mode : Mode 1

Test Report

Test Description: Conducted Emission
Job No.: KES-EM253644
Phase: L
Mode: Mode 1
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dB μV)	CAverage (dB μV)	Limit (dB μV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	38.33	66.00	27.67	1000.0	9.000	L1	19.5
0.150000	55.23	---	79.00	23.77	1000.0	9.000	L1	19.5
0.335000	---	41.24	66.00	24.76	1000.0	9.000	L1	19.6
0.335000	48.38	---	79.00	30.62	1000.0	9.000	L1	19.6
0.985000	---	22.77	60.00	37.23	1000.0	9.000	L1	19.6
0.985000	29.05	---	73.00	43.95	1000.0	9.000	L1	19.6
5.050000	---	22.81	60.00	37.19	1000.0	9.000	L1	19.9
5.050000	29.41	---	73.00	43.59	1000.0	9.000	L1	19.9
8.695000	---	26.40	60.00	33.60	1000.0	9.000	L1	20.0
8.695000	32.05	---	73.00	40.95	1000.0	9.000	L1	20.0
8.805000	---	26.42	60.00	33.58	1000.0	9.000	L1	20.0
8.805000	32.00	---	73.00	41.00	1000.0	9.000	L1	20.0



Report No. : KES-EM253644

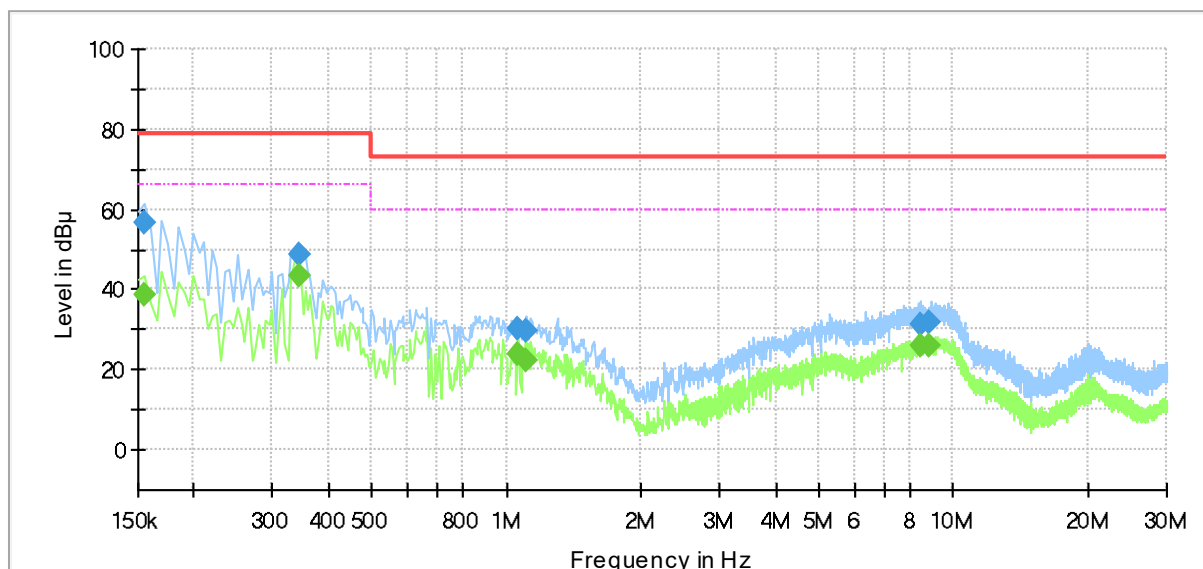
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○ Test Date : 2025-10-26

● Test Mode : Mode 1

Test Report

Test Description: Conducted Emission
Job No.: KES-EM253644
Phase: N
Mode: Mode 1
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	---	38.91	66.00	27.09	1000.0	9.000	N	19.5
0.155000	56.44	---	79.00	22.56	1000.0	9.000	N	19.5
0.345000	---	43.16	66.00	22.84	1000.0	9.000	N	19.5
0.345000	48.96	---	79.00	30.04	1000.0	9.000	N	19.5
1.065000	---	23.82	60.00	36.18	1000.0	9.000	N	19.6
1.065000	30.33	---	73.00	42.67	1000.0	9.000	N	19.6
1.110000	---	22.46	60.00	37.54	1000.0	9.000	N	19.6
1.110000	29.61	---	73.00	43.39	1000.0	9.000	N	19.6
8.440000	---	25.78	60.00	34.22	1000.0	9.000	N	20.0
8.440000	31.40	---	73.00	41.60	1000.0	9.000	N	20.0
8.790000	---	26.02	60.00	33.98	1000.0	9.000	N	20.0
8.790000	31.79	---	73.00	41.21	1000.0	9.000	N	20.0

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 CAT6	ENY81-CAT6	Rohde & Schwarz	101666	2025-02-27	2026-02-27	■

6.2.2 Test Location : SHIELD ROOM #6

6.2.3 Test Conditions :

Temperature	Relative Humidity
(23.8 ~ 23.8) °C	(52.4 ~ 52.4) % R.H.

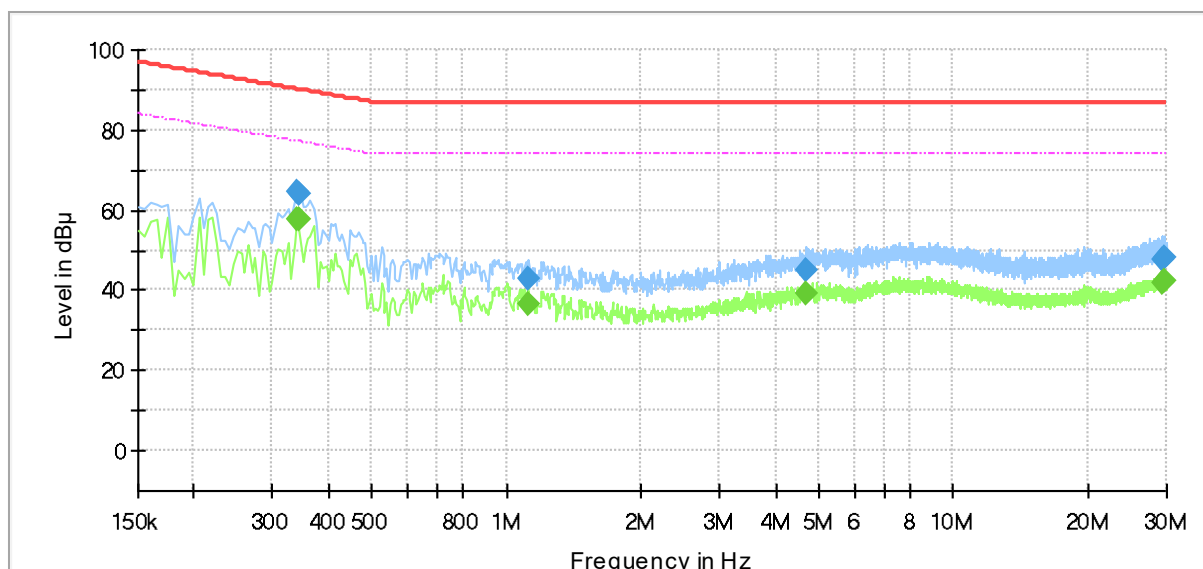


6.2.4 Test Result

- Test Date : 2025-10-26
- Test Mode : Mode 1

Test Report

Test Description: Telecommunication Emission
Job No.: KES-EM253644
Mode : Mode 1
Speed : 1 000 Mbps
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dB μV)	CAverage (dB μV)	Limit (dB μV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.340000	---	57.52	77.20	19.68	1000.0	9.000	Single Line	19.5
0.340000	64.35	---	90.20	25.85	1000.0	9.000	Single Line	19.5
0.345000	---	57.51	77.08	19.57	1000.0	9.000	Single Line	19.5
0.345000	64.18	---	90.08	25.90	1000.0	9.000	Single Line	19.5
1.115000	---	36.73	74.00	37.27	1000.0	9.000	Single Line	19.4
1.115000	43.14	---	87.00	43.86	1000.0	9.000	Single Line	19.4
4.700000	---	39.25	74.00	34.75	1000.0	9.000	Single Line	19.5
4.700000	45.07	---	87.00	41.93	1000.0	9.000	Single Line	19.5
29.345000	---	41.98	74.00	32.02	1000.0	9.000	Single Line	20.2
29.345000	47.75	---	87.00	39.25	1000.0	9.000	Single Line	20.2
29.740000	---	42.18	74.00	31.82	1000.0	9.000	Single Line	20.3
29.740000	47.94	---	87.00	39.06	1000.0	9.000	Single Line	20.3



Report No. : KES-EM253644

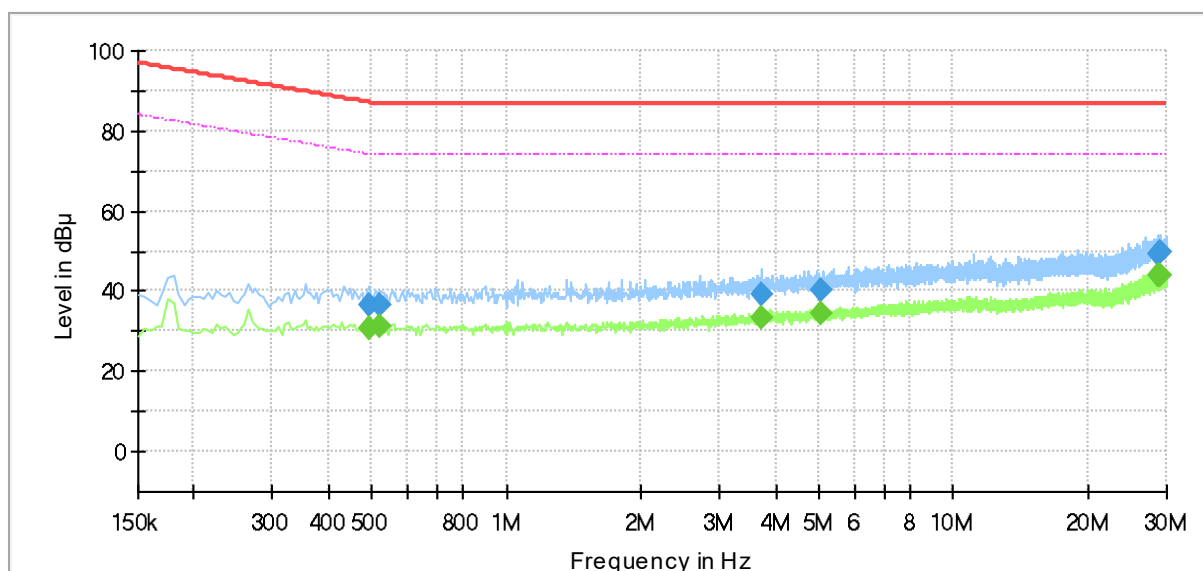
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○ Test Date : 2025-10-26

● Test Mode : Mode 2

Test Report

Test Description: Telecommunication Emission
Job No.: KES-EM253644
Mode : Mode 2
Speed : 1 000 Mbps
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dB μV)	CAverage (dB μV)	Limit (dB μV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.495000	---	30.93	74.08	43.15	1000.0	9.000	Single Line	19.5
0.495000	36.54	---	87.08	50.54	1000.0	9.000	Single Line	19.5
0.520000	---	31.01	74.00	42.99	1000.0	9.000	Single Line	19.5
0.520000	36.61	---	87.00	50.39	1000.0	9.000	Single Line	19.5
3.715000	---	33.24	74.00	40.76	1000.0	9.000	Single Line	19.5
3.715000	39.02	---	87.00	47.98	1000.0	9.000	Single Line	19.5
5.065000	---	34.30	74.00	39.70	1000.0	9.000	Single Line	19.5
5.065000	40.00	---	87.00	47.00	1000.0	9.000	Single Line	19.5
28.810000	---	44.01	74.00	29.99	1000.0	9.000	Single Line	20.2
28.810000	49.47	---	87.00	37.53	1000.0	9.000	Single Line	20.2
29.075000	---	44.19	74.00	29.81	1000.0	9.000	Single Line	20.2
29.075000	49.69	---	87.00	37.31	1000.0	9.000	Single Line	20.2

6.2.5 Remark

Complies with the test requirements.



6.3 Radiated Emissions(Below 1 GHz)

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	SCHWARZBEC K	9168-461	2024-05-09	2026-05-09	■
ATTENUATOR	6806.17.A	HUBER+SUHNE R	-	2025-02-13	2026-02-13	■

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

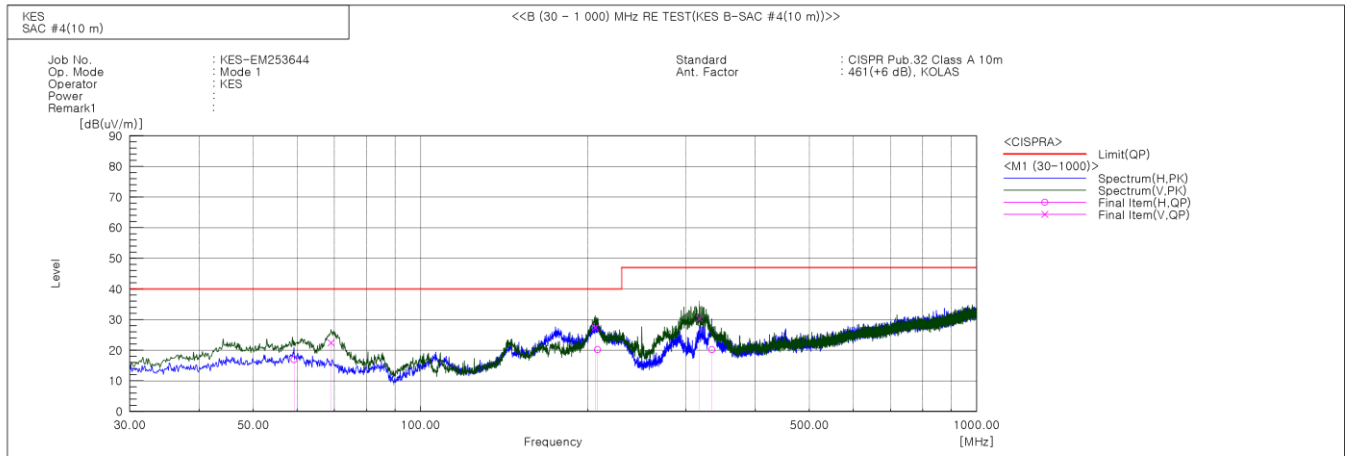
6.3.3 Test Conditions :

Temperature	Relative Humidity
(20.3 ~ 20.7) °C	(50.5 ~ 50.9) % R.H.



6.3.4 Test Result

- Test Date : 2025-10-27
- 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	59.221	H	38.3	-21.4	16.9	40.0	23.1	391.0	296.3	
2	69.043	V	45.0	-22.6	22.4	40.0	17.6	108.0	117.8	
3	206.176	V	49.2	-21.8	27.4	40.0	12.6	110.0	117.8	
4	208.116	H	42.0	-21.8	20.2	40.0	19.8	395.0	99.7	
5	317.241	V	46.8	-16.5	30.3	47.0	16.7	112.0	188.9	
6	334.095	H	36.2	-16.0	20.2	47.0	26.8	399.0	259.9	

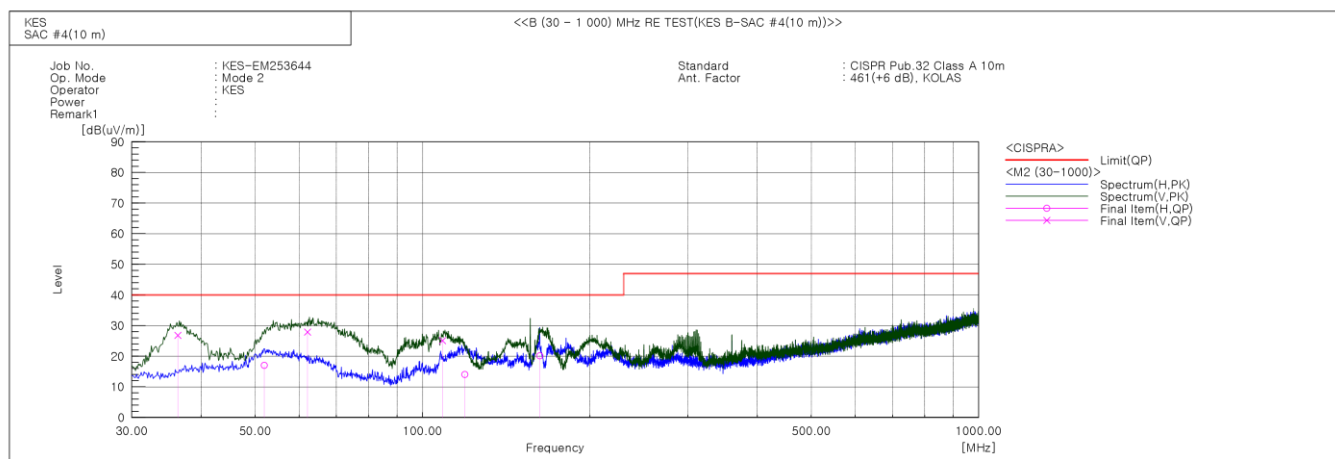
※ The data is the result measured by the detector in Quasi-Peak mode on the Peak graph.



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- Test Date : 2025-10-27
- Test Mode : Mode 2



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	36.305	V	49.0	-22.2	26.8	40.0	13.2	104.0	355.0	
2	51.946	H	38.0	-21.0	17.0	40.0	23.0	392.0	137.6	
3	62.131	V	49.5	-21.6	27.9	40.0	12.1	113.0	64.4	
4	108.570	V	48.8	-23.7	25.1	40.0	14.9	110.0	64.4	
5	119.119	H	36.5	-22.5	14.0	40.0	26.0	393.0	226.1	
6	162.526	H	39.7	-19.6	20.1	40.0	19.9	385.0	65.2	

※ 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 GHz)

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

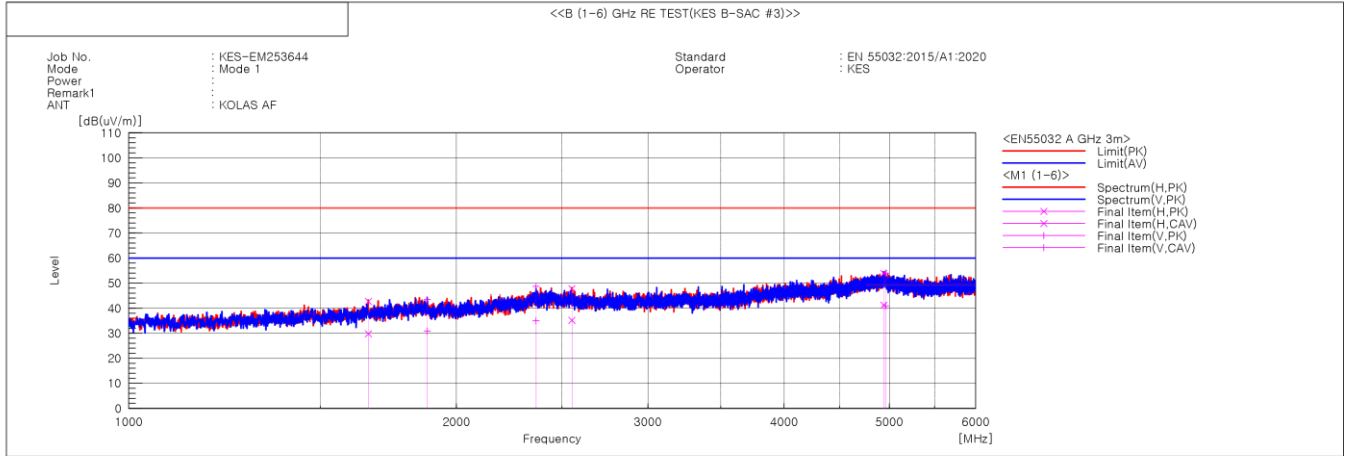
6.4.3 Test Conditions :

Temperature	Relative Humidity
(21.0 ~ 21.4) °C	(50.8 ~ 51.2) % R.H.



6.4.4 Test Result

- Test Date : 2025-10-26
- Test Mode : Mode 1



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	1660.277	H	40.8	27.9	1.9	42.7	29.8	80.0	60.0	37.3	30.2	100.0	289.0	
2	1880.621	V	39.4	26.8	4.1	43.5	30.9	80.0	60.0	36.5	29.1	100.0	55.3	
3	2367.313	V	41.3	27.6	7.4	48.7	35.0	80.0	60.0	31.3	25.0	100.0	55.3	
4	2553.120	H	40.4	27.8	7.4	47.8	35.2	80.0	60.0	32.2	24.8	100.0	90.4	
5	4940.617	H	37.3	24.6	16.6	53.9	41.2	80.0	60.0	26.1	18.8	100.0	252.4	
6	4958.299	V	37.3	24.2	16.7	54.0	40.9	80.0	60.0	26.0	19.1	100.0	55.3	

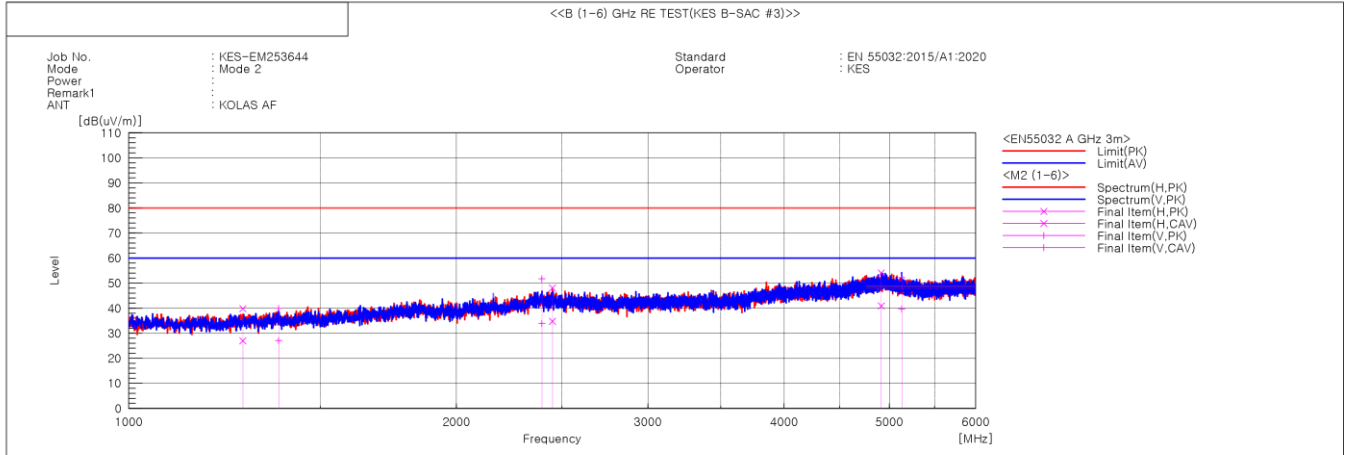
※ The data is the result of measured by the detector in PK and CISPR Average on the Peak graph.



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- Test Date : 2025-10-26
- Test Mode : Mode 2



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	1273.175	H	41.5	28.7	-1.7	39.8	27.0	80.0	60.0	40.2	33.0	100.0	177.9	
2	1373.122	V	40.6	27.8	-0.7	39.9	27.1	80.0	60.0	40.1	32.9	100.0	180.2	
3	2397.078	V	44.2	26.4	7.5	51.7	33.9	80.0	60.0	28.3	26.1	100.0	144.4	
4	2450.608	H	40.5	27.2	7.6	48.1	34.8	80.0	60.0	31.9	25.2	100.0	33.5	
5	4913.971	H	37.6	24.4	16.5	54.1	40.9	80.0	60.0	25.9	19.1	100.0	232.0	
6	5130.397	V	36.4	23.9	15.8	52.2	39.7	80.0	60.0	27.8	20.3	100.0	216.9	

※ 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



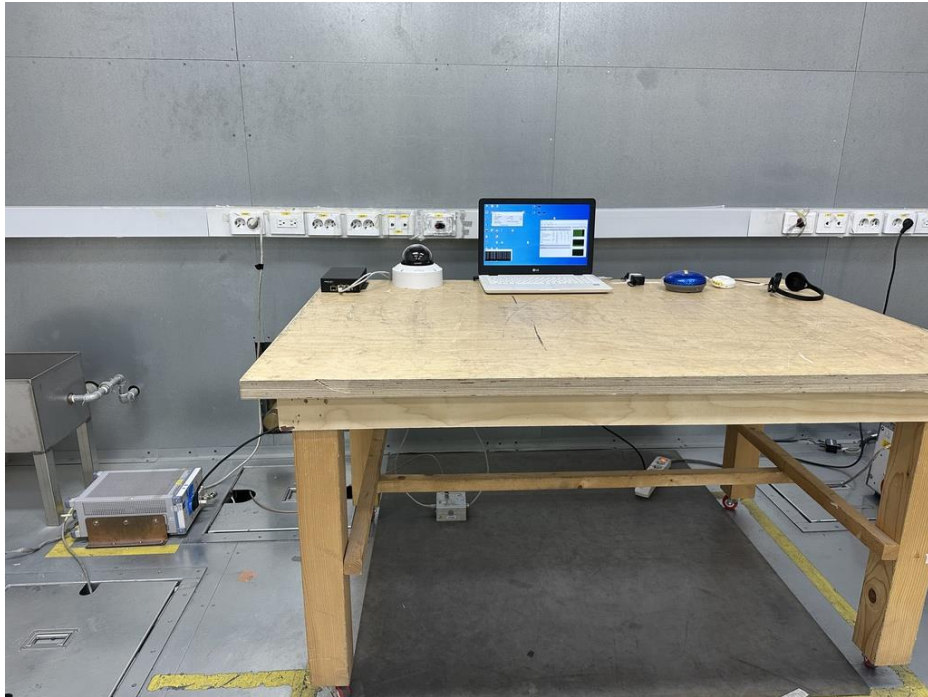
<Conducted Emissions at Mains Power Ports - Rear> Mode 1



<Conducted Emissions at Telecommunication Ports - Front> Mode 1



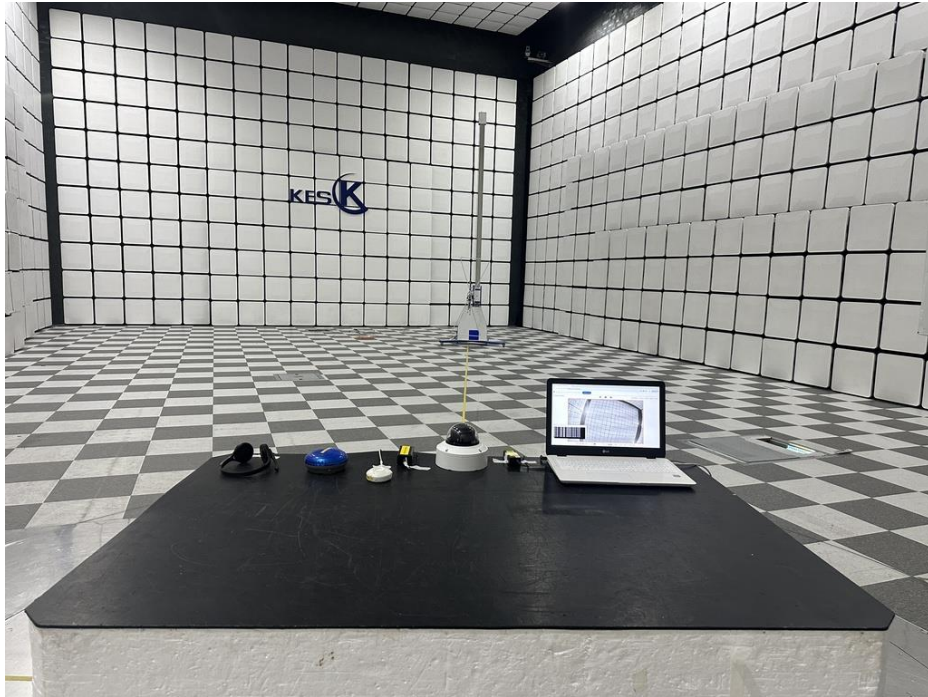
<Conducted Emissions at Telecommunication Ports - Rear> Mode 1



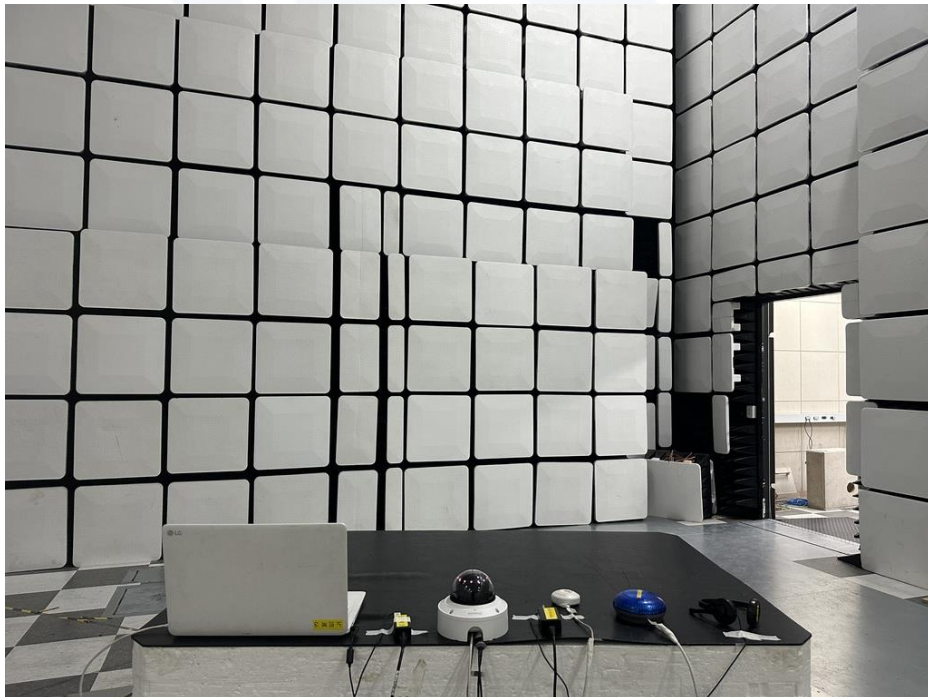
<Conducted Emissions at Telecommunication Ports - Front> Mode 2



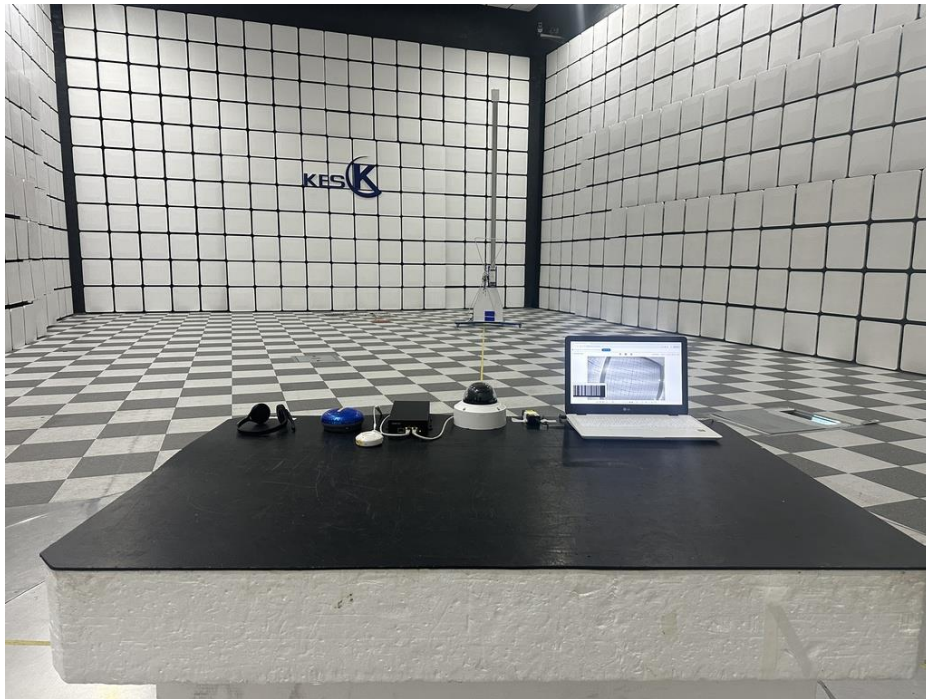
<Conducted Emissions at Telecommunication Ports - Rear> Mode 2



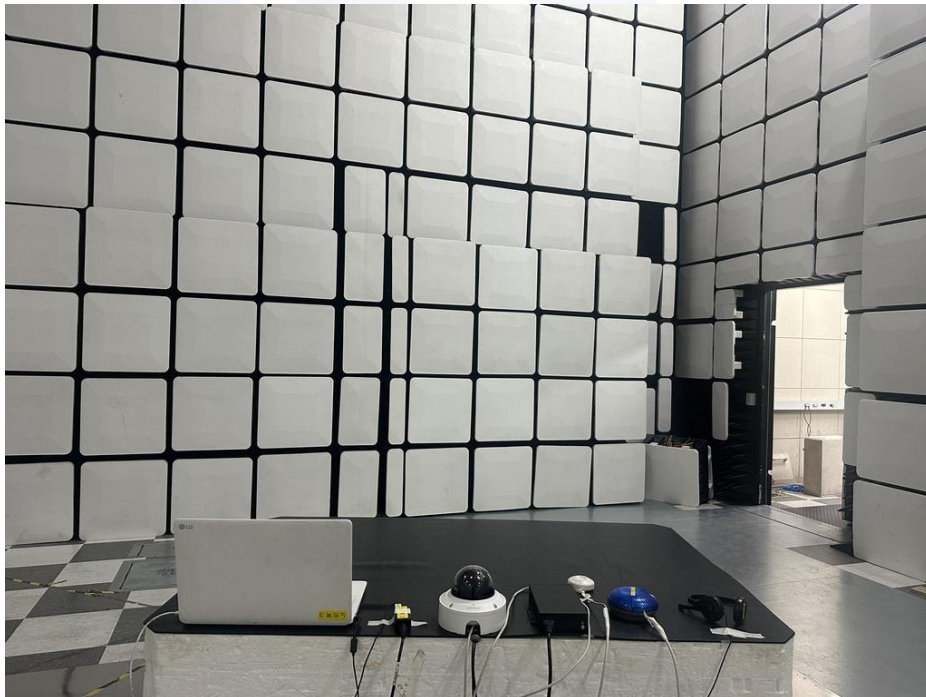
<Radiated Emissions(Below 1 GHz) - Front> Mode 1



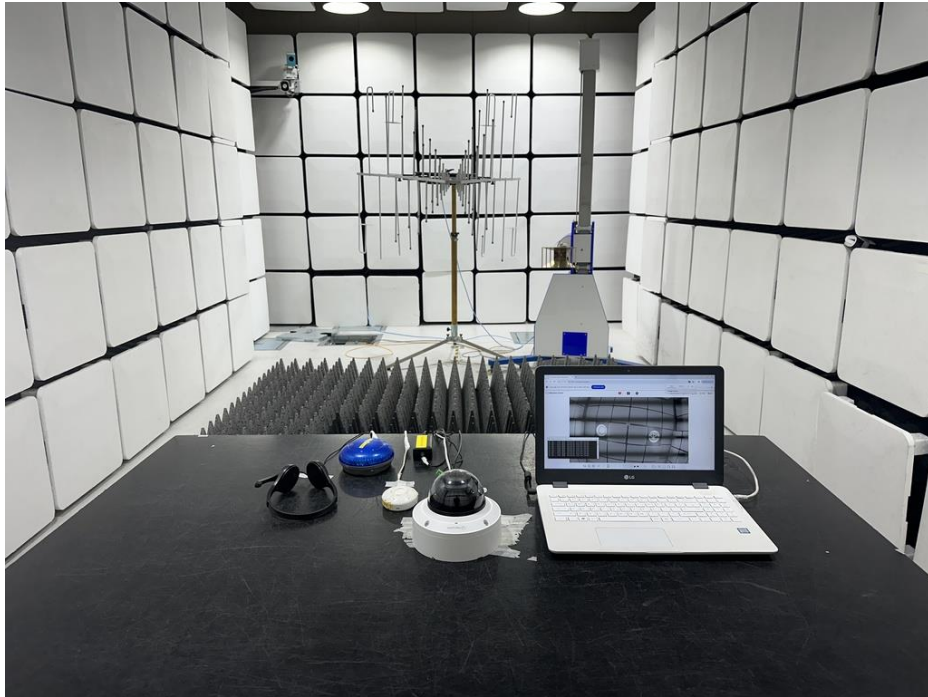
<Radiated Emissions(Below 1 GHz) - Rear> Mode 1



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



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



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



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



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



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



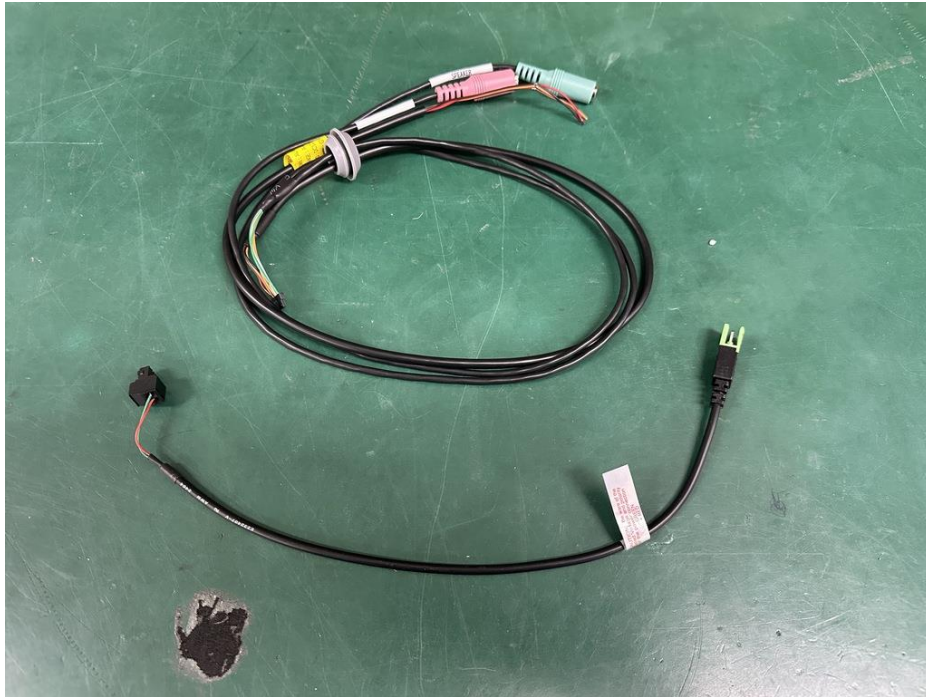
7.2 EUT Photographs



<EUT External Photographs - Top>



<EUT External Photographs - Bottom>



<Components>



<Port-1>



<Port-2>



<Port-3>



<Port-4>



<Administrator Port>



<EUT Internal Photographs>



7.3 Label



Name : Hanwha Vision Co., Ltd.
Product item : NETWORK CAMERA
Model name : XND-A9085RV

The End.

