



TEST REPORT



Report No. : KES-EM254057

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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 : XNV-A9016R
- 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. 11. 24. ~ 2025. 11. 25.

4. Location of Test : Permanent Testing Lab

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

5. Test method used : FCC 47 CFR Part 15, Subpart B (ANSI C63.4a-2017),
IC ICES-003 Issue 7 (ANSI C63.4a-2017)

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 : SeonHo Choi	Name : SeongMin Choi

2025. 12. 17.

KES Co., Ltd.

**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
2025. 12. 17.	KES-EM254057	Issued

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

- ☒ No decision rule is specified by the 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	PoE(AC 120 V, 60 Hz)

2.2 Summary of Test Results

Regulation			
47 CFR Part 15, Subpart B, ICES-003 Issue 7			
Test Item	Test Standard	Test Result	Remark
Conducted Emissions at Mains Power Ports	ANSI C63.4a-2017	PASS	-
Radiated Emissions(Below 1 GHz)		PASS	-
Radiated Emissions(Above 1 GHz)		PASS	-
* N/A: Not Applicable			

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		3 200 MHz
Power	Rated power supply	PoE
I/O Ports	User port	RJ-45 1 EA, Micro SD Slot 1 EA
	Unused	USB C Type 1 EA
function	Product features	NETWORK CAMERA
	Wireless function	N/A
Components		Main body 1 EA
Others		Please refer to the specifications listed below.

Video		
Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		3840x2160, 3328x1872, 3072x1728, 2592x1944, 2560x1440, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@8MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.015
	BW(1/30sec, 30IRE)	0.0015
Lens		
Focal Length (mm)		3.0
Zoom Ratio	Digital	None
Max Aperture Ratio (F number)	Wide	1.6
	Tele	1.6
Min. Object Distance		0.4m(1.31ft)
Focus Control		Simple focus, Manual
Lens Type		Fixed iris
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Pan	0°~351°
	Tilt	0°~64°
	Rotate	±90°
Operational		
Day & Night		Auto(ICR)



Backlight Compensation		BLC, HLC, WDR, SSSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization		Support
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	Polygonal zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
	Dynamic Privacy Masking: Color / Option	Green, Red, Blue, Black, White, Mosaic
Gain Control		Off, Max gain, Manual
White Balance		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor
LDC		Support(Fill/stretch mode)
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Speed Range	2~1/30,000sec
Digital PTZ		Support
Video Rotation		Flip, Mirror, Hallway view(90°/270°)
Alarm Interface	Others	Support alarm I/O via optional I/O box
Alarm Triggers		Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription, Day/Night, Storage disruption
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, MQTT: publication
Audio In		Support via optional I/O box
Audio Out		Support via optional I/O box
Light Type		IR LED
Light Viewable Length	IR	25m(82.02ft)
IR Wavelength		850nm



Analytics		
Classified Object Type		Person, Face, Vehicle, License plate
Attributes	Person	Upper/Lower clothes color, Gender, Bag
	Vehicle	Type(car, bus, truck, motorcycle, bicycle), Color
	Face	Age, Gender, Face mask, Glasses
Re-ID		Person
Thumbnail		BestShot
Analytics Events	Based on AI Engine	Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection, Face mask detection, Social distancing detection, Slip & fall detection, Stopped vehicle, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear)
	Normal	Defocus detection, Tampering, Audio detection
Business Intelligence	Based on AI Engine	People counting, Queue management, Heatmap, Vehicle counting, Crowd counting
Network		
Ethernet		Metal shielded RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		None
Smart Codec		Manual, WiseStream(Based on AI engine)
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	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, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT, PIM-SM, SMTP(StartTLS), SIP, Syslog
SIP support (VoIP, Peer-to-peer, SIP/PBX integration)		Support



Application Programming Interface	ONVIF	S, G, T, M
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support
Security		
OS / Firmware Protect		Encrypted firmware, Secure boot, Signed firmware
User authentication		Digest authentication, Prevent brute-force attack
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		HTTPS, WSS(WebSocket Secure), SRTP, 802.1AE(MACsec)
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		SDcard partition encrypt(AES-256), Secure element
Supply Chain Security		SBOM
Security Certificate		Secure element(FIPS 140-3 level3, CC EAL6+), Consumer IoT Security Standard (ETSI EN 303 645)
General		
Memory	RAM	4GB
	Flash	8GB eMMC
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 1slot
Edge Storage(OnCloud)	Micro SD/SDHC/SDXC	Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.
Environmental & Electrical		
	Humidity	0~100% RH(condensing)
	Others	+74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Start up should be done at above -30°C
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3)
Power Consumption	PoE	PoE: Max. 10.0W, typical 7.7W



Wisepower		Power monitoring, ECO mode
Mechanical		
Color		White
Material		Aluminum, Hard-coated dome
Material Management	Declaration	RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018), REACH(Regulation (EC) No. 1907/2006), Conflict mineral policy(Section 1502 of US Dodd Frank Act)
	Recycle Rate	Recycled plastic %
RAL Code		RAL9003
Product Dimensions		Ø120x65.5mm(Ø4.72x2.58")
Product Weight		555g(1.22b)



4 EUT Setup and Operation Mode

4.1 EUT Configuration

Product Name	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	XNV-A9016R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
PoE Injector	GS728TPP	-	NETGEAR	-
Laptop	LG15N54	410NZXE015458	LG Electronics.	-
Laptop Adaptor	ADP-90WH B	84ZW19F1747	DELTA ELECTRONICS(JIAN GSU) LTD.	-
Micro SD Card	-	-	SanDisk	32 GB

4.2 System Configuration

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

4.3 External I/O Cabling

Start		End		Cable Spec.	
Product Name	I/O Port	Product Name	I/O Port	Length(m)	Shield
EUT	RJ-45 (PoE)	PoE Injector	RJ-45 (PoE)	3.5	U
	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
Laptop	RJ-45 (LAN)	PoE Injector	RJ-45 (LAN)	0.8	U
	DC Jack	Laptop Adaptor	DC Jack	1.6	U

* Unshielded=U, Shielded=S

4.4 EUT Operating Mode(s)

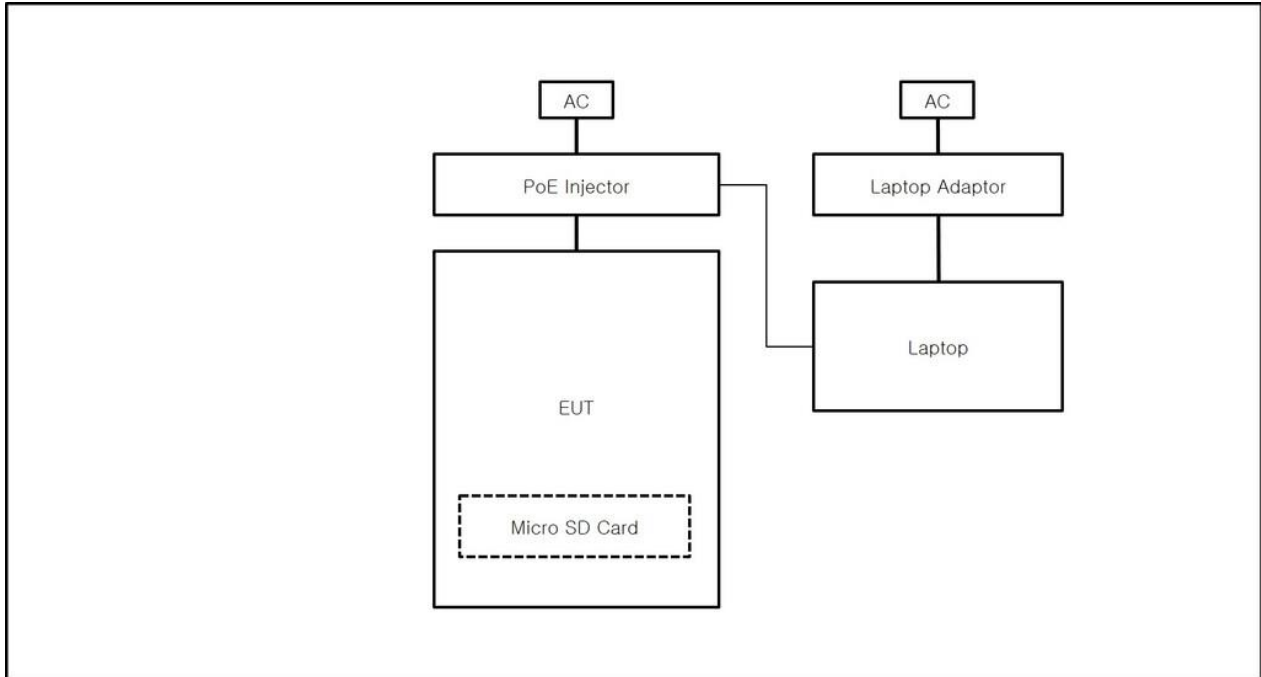
Category	Mode	Operating
Mode 1	Operation	- View images of the EUT through Web Viewer in Laptop. - Check the network of the EUT through Ping test on Laptop.

4.5 Test operating S/W

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



4.6 Configuration



Mode 1



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 exceeded 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 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)

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

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

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)

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

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

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

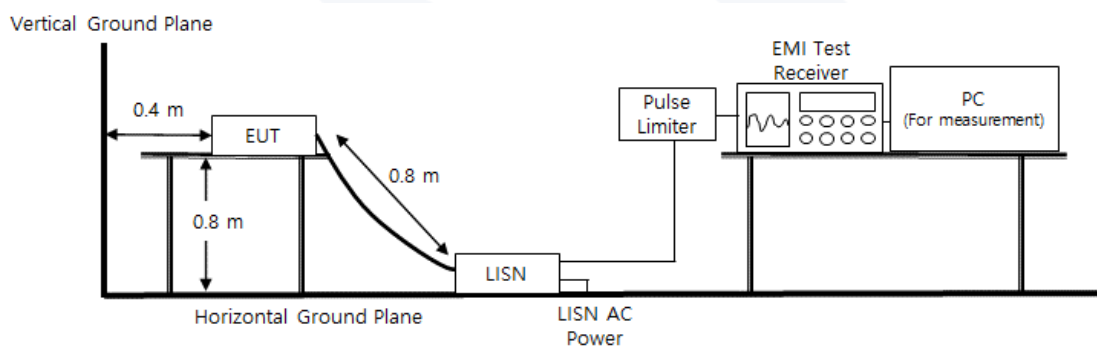
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SHIELD ROOM #6	-	DYMSTEC	-	-	-	■
EMC32 Measurement Software	EMC32	R&S	9.12.00	-	-	■
EMI TEST RECEIVER	ESR3	Rohde & Schwarz	101783	2025-11-03	2026-11-03	■
LISN	ENV216	Rohde & Schwarz	101786	2025-01-09	2026-01-09	■
ARTIFICIAL MAINS NETWORK	ESH2-Z5	Rohde & Schwarz	100450	2025-11-03	2026-11-03	■
PULSE LIMITER	ESH3-Z2	Rohde & Schwarz	101915	2025-11-03	2026-11-03	■

6.1.2 Test Location : SHIELD ROOM #6

6.1.3 Test Conditions :

Temperature	Relative Humidity
(25.6 ~ 25.8) °C	(34.1 ~ 34.4) % R.H.

6.1.4 Diagram of test setup





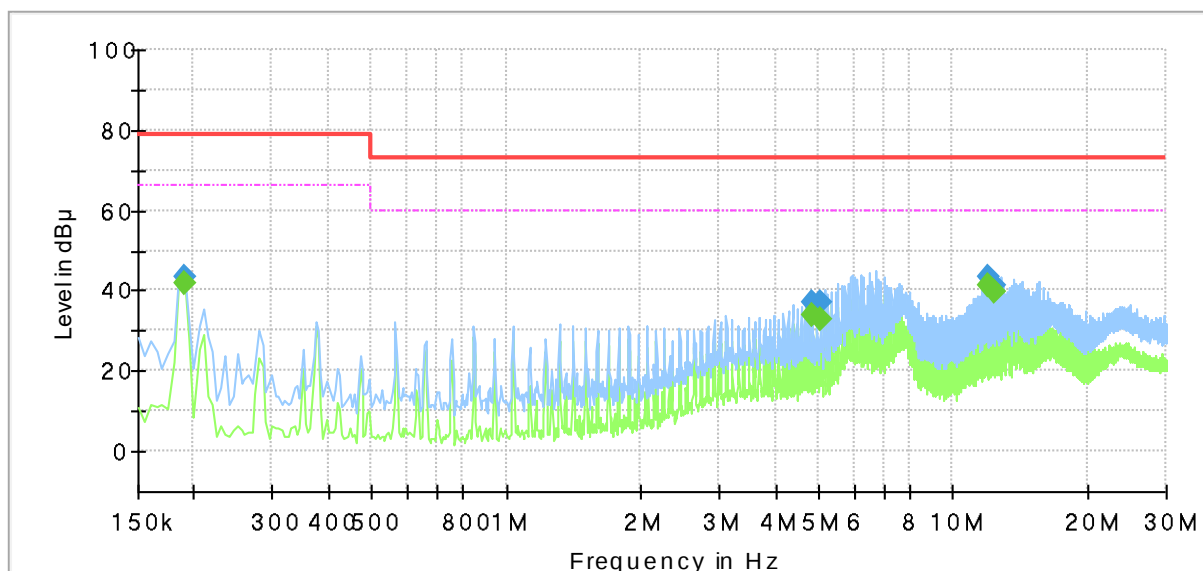
6.1.5 Test Result

- Test Date : 2025-11-24
- Test Mode : Mode 1

Test Report

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Test Description: Conducted Emission
Job No.: KES-EM254057
Phase: L
Mode:
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.190000	—	41.78	66.00	24.22	1000.0	9.000	L1	19.5
0.190000	43.38	—	79.00	35.62	1000.0	9.000	L1	19.5
4.855000	—	34.12	60.00	25.88	1000.0	9.000	L1	19.9
4.855000	36.92	—	73.00	36.08	1000.0	9.000	L1	19.9
5.050000	—	32.68	60.00	27.32	1000.0	9.000	L1	19.9
5.050000	37.13	—	73.00	35.87	1000.0	9.000	L1	19.9
12.040000	—	41.28	60.00	18.72	1000.0	9.000	L1	20.1
12.040000	43.65	—	73.00	29.35	1000.0	9.000	L1	20.1
12.325000	—	39.73	60.00	20.27	1000.0	9.000	L1	20.1
12.325000	41.43	—	73.00	31.57	1000.0	9.000	L1	20.1



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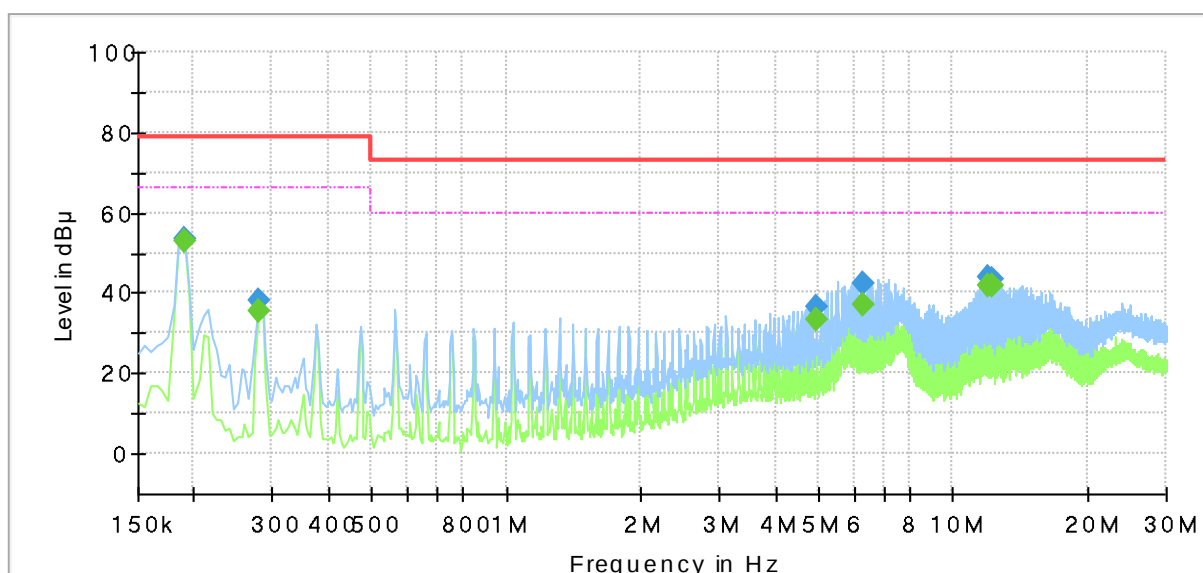
○ Test Date : 2025-11-24

● Test Mode : Mode 1

Test Report

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Test Description: Conducted Emission
Job No.: KES-EM254057
Phase: N
Mode:
Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.190000	—	52.98	66.00	13.02	1000.0	9.000	N	19.5
0.190000	53.31	—	79.00	25.69	1000.0	9.000	N	19.5
0.280000	—	35.54	66.00	30.46	1000.0	9.000	N	19.5
0.280000	37.93	—	79.00	41.07	1000.0	9.000	N	19.5
4.950000	—	33.33	60.00	26.67	1000.0	9.000	N	19.9
4.950000	36.75	—	73.00	36.25	1000.0	9.000	N	19.9
6.310000	—	37.11	60.00	22.89	1000.0	9.000	N	19.9
6.310000	42.43	—	73.00	30.57	1000.0	9.000	N	19.9
11.940000	—	41.99	60.00	18.01	1000.0	9.000	N	20.1
11.940000	44.08	—	73.00	28.92	1000.0	9.000	N	20.1
12.225000	—	41.92	60.00	18.08	1000.0	9.000	N	20.1
12.225000	43.20	—	73.00	29.80	1000.0	9.000	N	20.1

6.1.6 Remark

Complies with the test requirements.



6.2 Radiated Emissions(Below 1 GHz)

6.2.1 Test Equipment

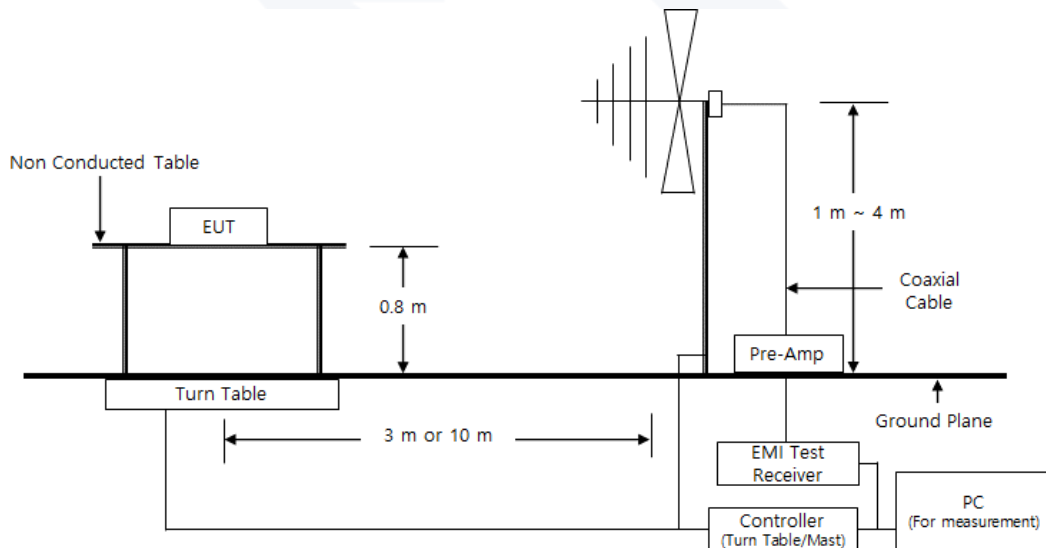
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #4(10 m)	-	DYMSTEC	-	-	-	■
EP5/RE Software	EP5/RE	TOYO	6.0.0	-	-	■
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100551	2025-02-13	2026-02-13	■
AMPLIFIER	SCU 01	Rohde & Schwarz	100603	2025-11-03	2026-11-03	■
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	■

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

6.2.3 Test Conditions :

Temperature	Relative Humidity
(20.1 ~ 20.3) °C	(35.5 ~ 35.8) % R.H.

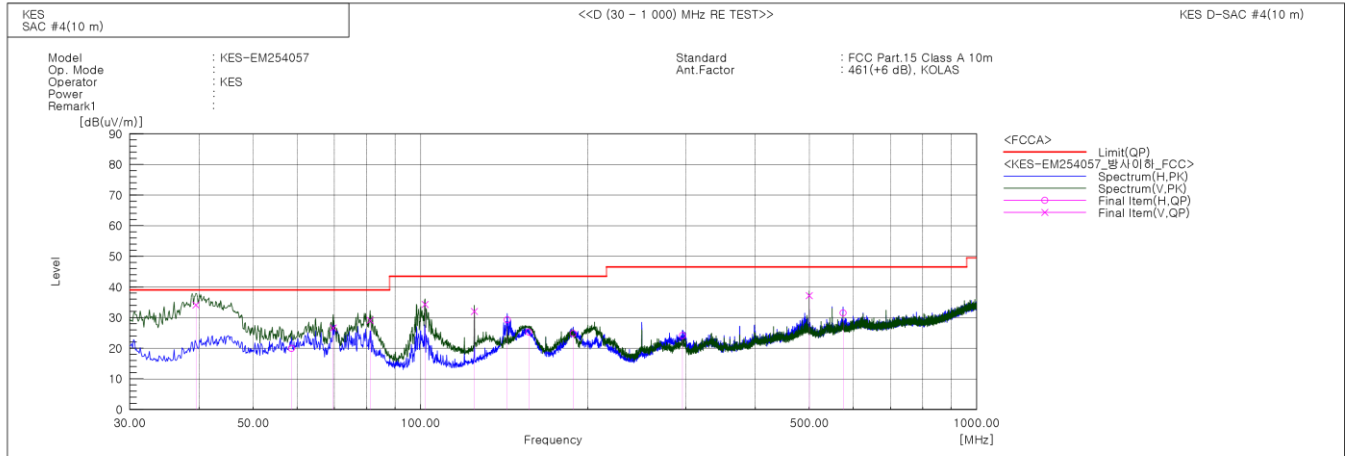
6.2.4 Diagram of test setup





6.2.5 Test Result

- Test Date : 2025-11-25
- Test Mode : Mode 1(FCC)



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	39.458	V	55.5	-21.4	34.1	39.0	4.9	100.0	75.0	
2	58.615	H	40.7	-20.8	19.9	39.0	19.1	306.0	165.0	
3	69.649	V	48.9	-22.3	26.6	39.0	12.4	111.0	117.0	
4	81.168	V	54.5	-25.4	29.1	39.0	9.9	100.0	41.0	
5	101.901	V	58.6	-24.3	34.3	43.5	9.2	191.0	117.0	
6	124.939	V	53.6	-21.6	32.0	43.5	11.5	100.0	82.0	
7	143.248	H	48.9	-19.6	29.3	43.5	14.2	400.0	138.0	
8	156.585	H	44.5	-19.2	25.3	43.5	18.2	303.0	318.0	
9	188.231	H	46.4	-21.6	24.8	43.5	18.7	400.0	255.0	
10	295.780	H	41.3	-17.2	24.1	46.5	22.4	301.0	185.0	
11	499.965	V	46.9	-9.7	37.2	46.5	9.3	102.0	199.0	
12	575.019	H	39.1	-7.6	31.5	46.5	15.0	300.0	13.0	

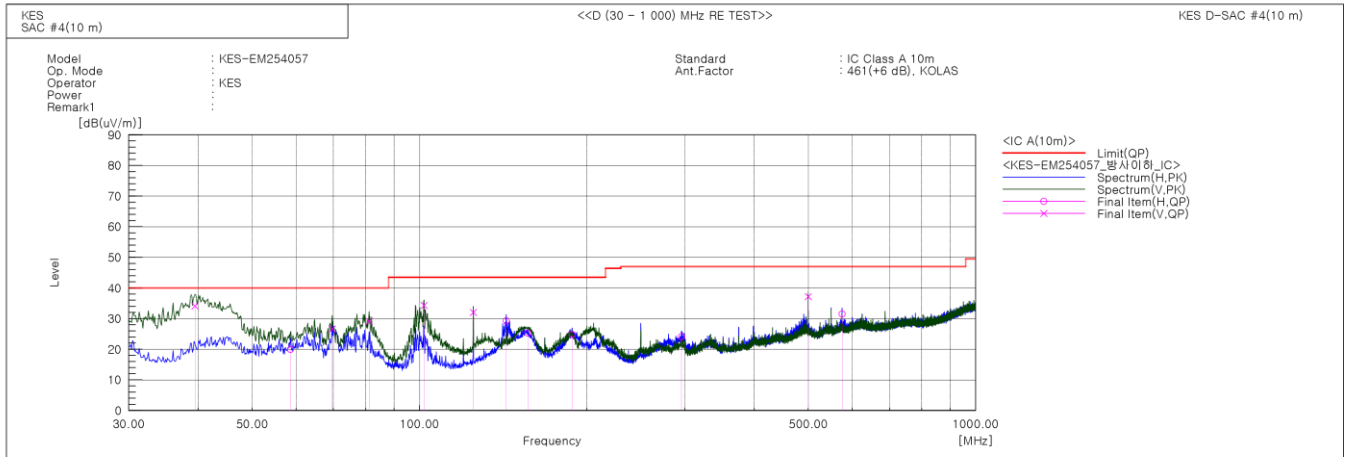
※ The data is the result measured by the detector in Quasi-Peak mode on the Peak graph.



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- Test Date : 2025-11-25
- Test Mode : Mode 1(IC)



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	39.458	V	55.5	-21.4	34.1	40.0	5.9	100.0	75.0	
2	58.615	H	40.7	-20.8	19.9	40.0	20.1	306.0	165.0	
3	69.649	V	48.9	-22.3	26.6	40.0	13.4	111.0	117.0	
4	81.168	V	54.5	-25.4	29.1	40.0	10.9	100.0	41.0	
5	101.901	V	58.6	-24.3	34.3	43.5	9.2	191.0	117.0	
6	124.939	V	53.6	-21.6	32.0	43.5	11.5	100.0	82.0	
7	143.248	H	48.9	-19.6	29.3	43.5	14.2	400.0	138.0	
8	156.585	H	44.5	-19.2	25.3	43.5	18.2	303.0	318.0	
9	188.231	H	46.4	-21.6	24.8	43.5	18.7	400.0	255.0	
10	295.780	H	41.3	-17.2	24.1	47.0	22.9	301.0	185.0	
11	499.965	V	46.9	-9.7	37.2	47.0	9.8	102.0	199.0	
12	575.019	H	39.1	-7.6	31.5	47.0	15.5	300.0	13.0	

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

6.2.6 Remark

Complies with the test requirements.



6.3 Radiated Emissions(Above 1 GHz)

6.3.1 Test Equipment

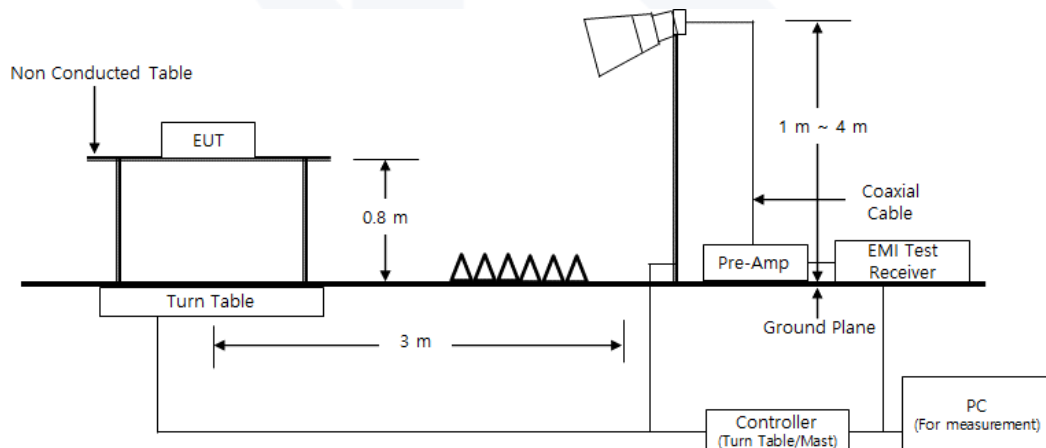
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #5	-	SY Corporation	-	-	-	■
ES10/RE Software	ES10/RE	TOYO	2022.01.000	-	-	■
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	2025-02-13	2026-02-13	■
PREAMPLIFIER	8449B	HP	3008A00538	2025-04-30	2026-04-30	■
HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	2025-11-05	2026-11-05	■
ATTENUATOR	8491B	HP	23094	2025-02-13	2026-02-13	■
HORN ANTENNA	SAS-571	A.H.	414	2025-01-13	2026-01-13	□

6.3.2 Test Location : SEMI ANECHOIC CHAMBER #5

6.3.3 Test Conditions :

Temperature	Relative Humidity
(23.1 ~ 23.3) °C	(36.9 ~ 37.1) % R.H.

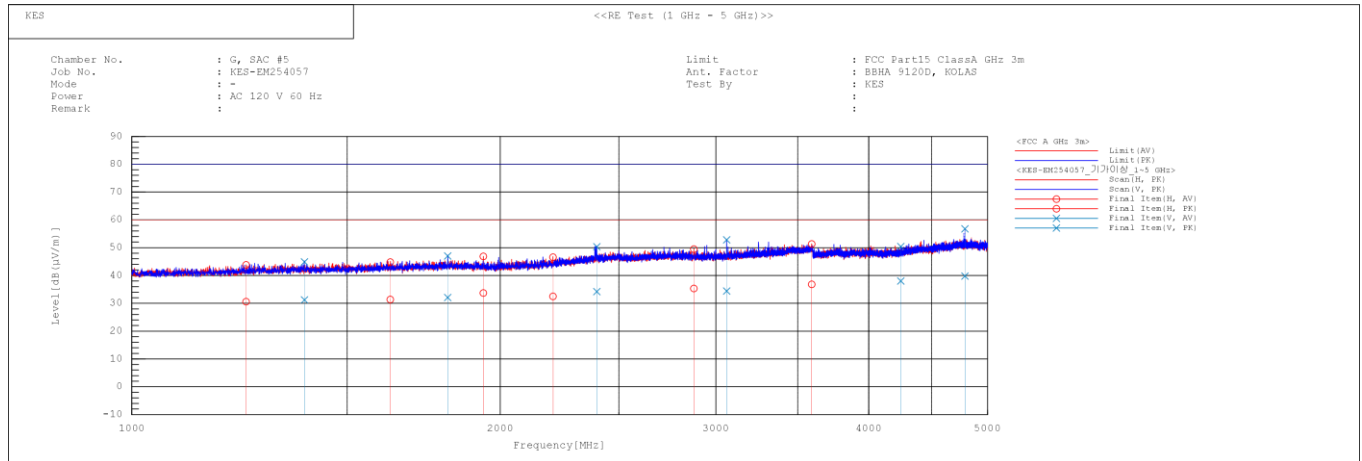
6.3.4 Diagram of test setup





6.3.5 Test Result

- Test Date : 2025-11-24
- Test Mode : Mode 1



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	1240.200	H	30.8	44.0	-0.2	30.6	43.8	60.0	80.0	29.4	36.2	395.0	185.9	
2	1383.990	V	30.5	44.2	0.7	31.2	44.9	60.0	80.0	28.8	35.1	101.0	28.5	
3	1626.615	H	29.8	43.2	1.6	31.4	44.8	60.0	80.0	28.6	35.2	400.0	298.3	
4	1812.165	V	29.6	44.5	2.5	32.1	47.0	60.0	80.0	27.9	33.0	100.0	257.9	
5	1937.321	H	30.9	44.1	2.8	33.7	46.9	60.0	80.0	26.3	33.1	400.0	52.7	
6	2208.410	H	28.6	42.7	3.9	32.5	46.6	60.0	80.0	27.5	33.4	305.0	251.3	
7	2398.894	V	29.2	45.3	5.0	34.2	50.3	60.0	80.0	25.8	29.7	100.0	197.4	
8	2878.306	H	28.8	43.0	6.5	35.3	49.5	60.0	80.0	24.7	30.5	396.0	61.2	
9	3062.016	V	27.6	46.0	6.8	34.4	52.8	60.0	80.0	25.6	27.2	106.0	151.9	
10	3592.160	H	29.0	43.5	7.8	36.8	51.3	60.0	80.0	23.2	28.7	300.0	20.3	
11	4248.243	V	28.1	40.5	9.9	38.0	50.4	60.0	80.0	22.0	29.6	193.0	46.4	
12	4792.375	V	28.0	45.0	11.8	39.8	56.8	60.0	80.0	20.2	23.2	199.0	161.8	

- ✖ The data is the result of measured by the detector in PK and CISPR Average on the Peak graph.
- ✖ The Average of the test data is the cispr average result.



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○ Test Date : 2025-11-24

● Test Mode : Mode 1

(5 ~ 16) GHz

PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 667.915	38.800	H	1.000	34.870	10.030	34.790	48.910	80.000	31.090
6 959.448	38.600	V	1.000	36.210	9.800	34.670	49.940	80.000	30.060

Cispr-AV

Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 667.915	32.400	H	1.000	34.870	10.030	34.790	42.510	60.000	17.490
6 959.448	32.400	V	1.000	36.210	9.800	34.670	43.740	60.000	16.260

※ No spurious emission were detected above 16 GHz

6.3.6 Remark

Complies with the test requirements.



7 Test Setup Photos and EUT Photographs

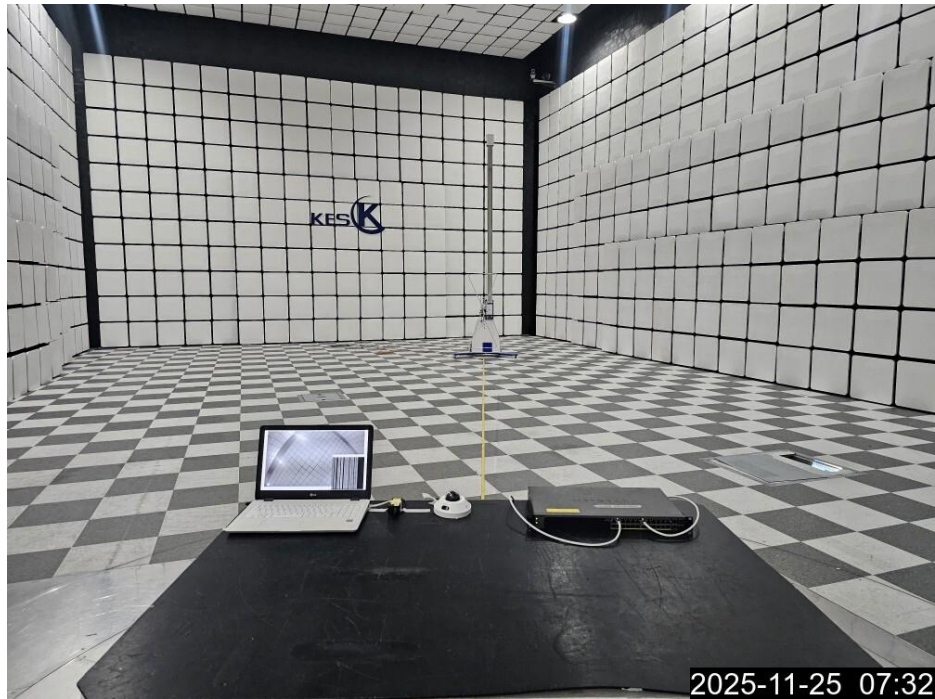
7.1 Test Setup Photos



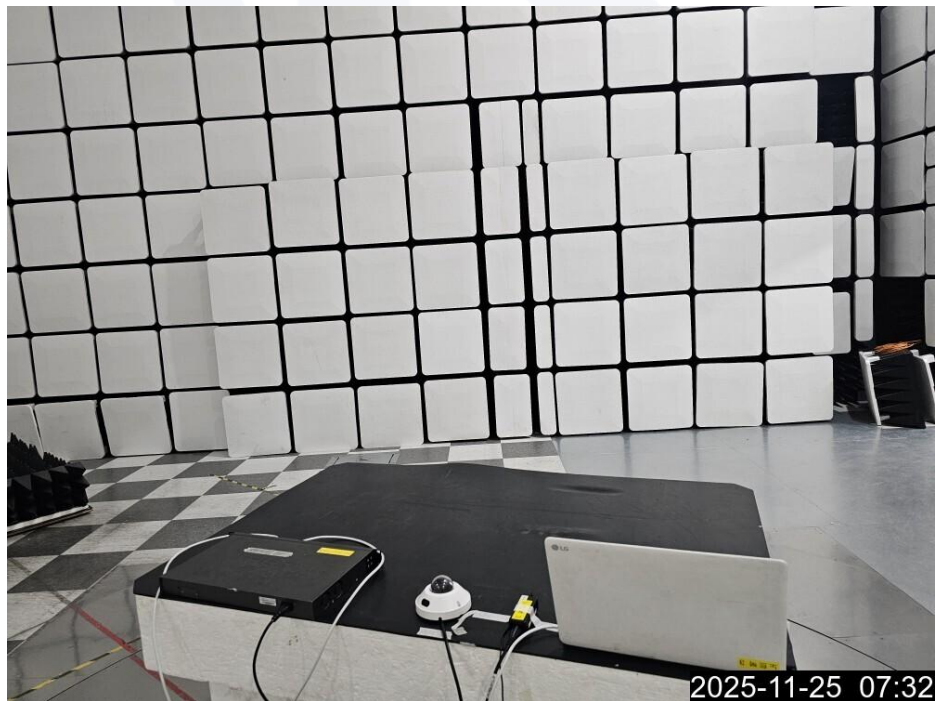
<Conducted Emissions at Mains Power Ports - Front>



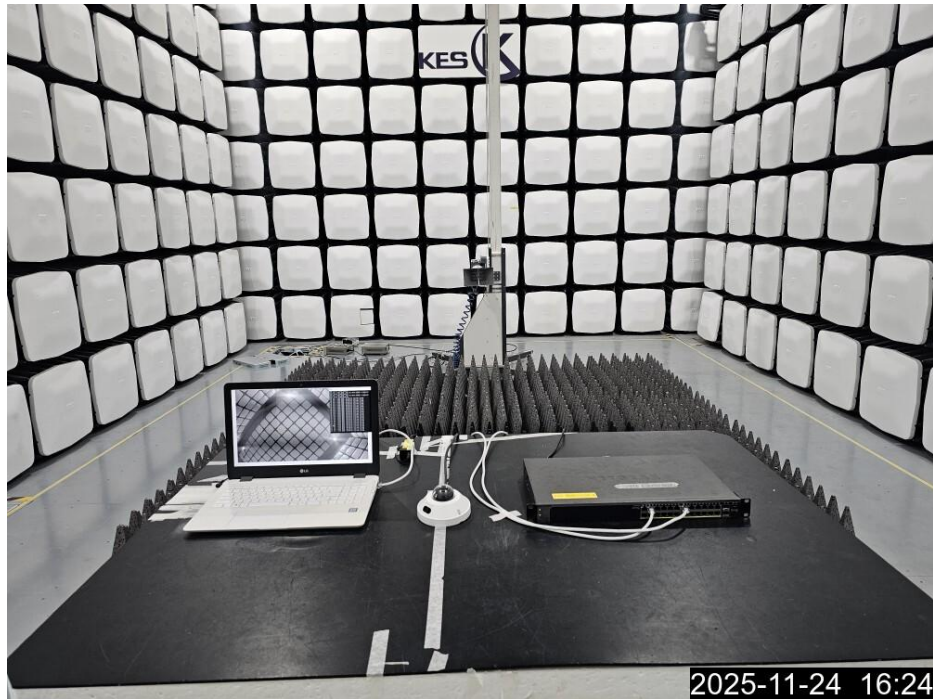
<Conducted Emissions at Mains Power Ports - Rear>



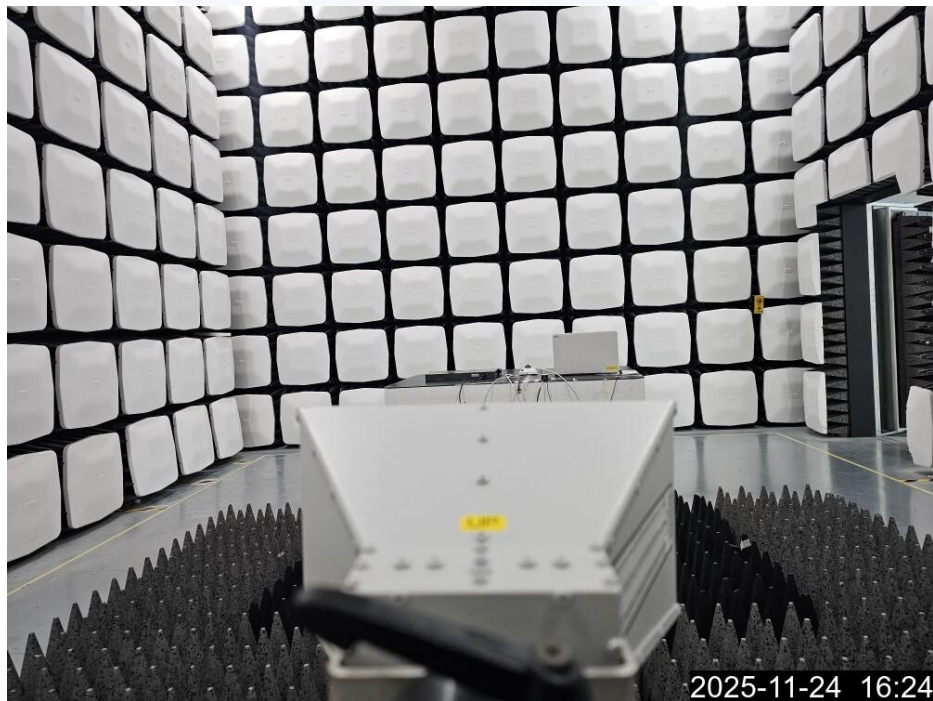
<Radiated Emissions(Below 1 GHz) - Front>



<Radiated Emissions(Below 1 GHz) - Rear>



<Radiated Emissions(Above 1 GHz) - Front>



<Radiated Emissions(Above 1 GHz) - Rear>



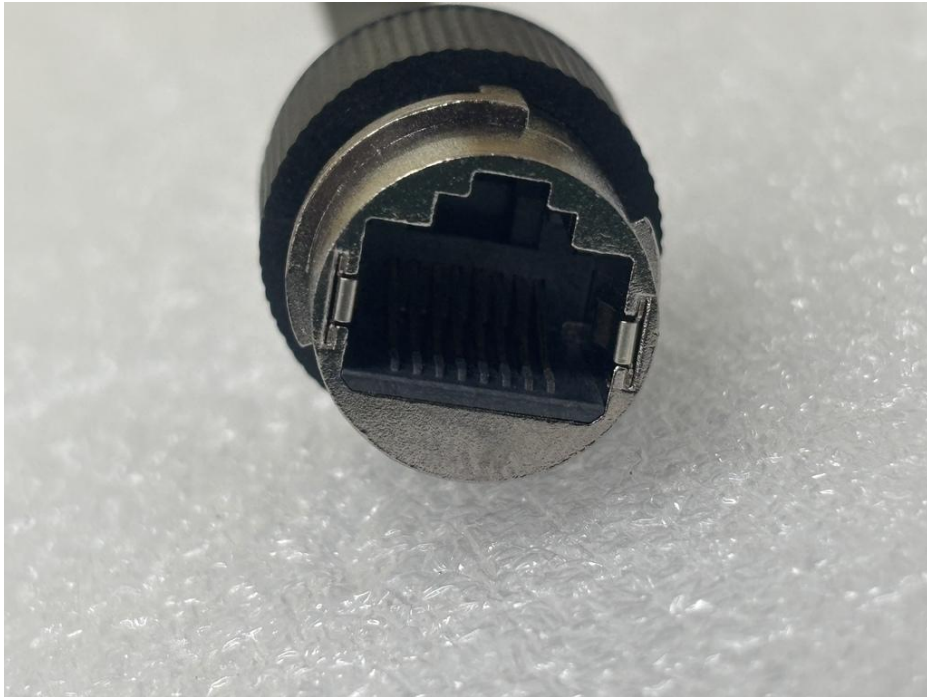
7.2 EUT Photographs



<EUT External Photographs - Top>



<EUT External Photographs - Bottom>



<Port-1>



<Port-2>



<Port-3>



<EUT Internal Photographs>



7.3 Label

	Name : Hanwha Vision Co., Ltd. Product item : NETWORK CAMERA Model name : XNV-A9016R
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.	
The above label is only an example. The specific format is left to the manufacturer to decide, as long as the label includes the required information, in accordance with ICES-Gen. The requirements specified in ICES-Gen shall apply. An example ISED compliance label, to be placed on each unit of an equipment model (or in the user manual, if allowed), is given below:	
CAN ICES-003(A) / NMB-003(A)	

The End.