TEST REPORT

KES Co., Ltd.
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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	:	PNM-A32084RQZ
◯ 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 : 2026. 08. 17. ~ 2026. 08. 20.

4. Location of Test : Permanent Testing Lab

○ Address : 473-21, Gayeo-ro, Yeoju-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 laboratory is not accredited for the test results marked *.
This test report is not related to KOLAS accreditation.

	Tested by	Technical Manager by
Affirmation	Name : SeonHo Choi [최선호]2026/09/15	Name : DongHun Jang [장동훈]2026/09/15

2026. 09. 15.

KES Co., Ltd.

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
2026. 09. 15.	KES-EM262827	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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TABLE OF CONTENTS

1 Laboratory Information 4
1.1 Test Location 4
1.2 Laboratory Accreditations and Listings 4
2 Test Summary 5
2.1 Class and Voltage 5
2.2 Summary of Test Results 5
2.3 Remarks when standards applied 5
2.4 Variant Model Differences 5
2.5 Device Modifications 5
3 General Product Description 6
4 EUT Setup and Operation Mode 10
4.1 EUT Configuration 10
4.2 System Configuration 10
4.3 External I/O Cabling 11
4.4 EUT Operating Mode(s) 11
4.5 Test operating S/W 11
4.6 Configuration 12
5 Measurement Procedure 13
6 Test Item 14
6.1 Conducted Emissions at Mains Power Ports 14
6.2 Radiated Emissions(Below 1 ㎓) 17
6.3 Radiated Emissions(Above 1 ㎓) 20
7 Test Setup Photos and EUT Photographs 23
7.1 Test Setup Photos 23
7.2 EUT Photographs 26
7.3 Label 30

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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, Republic of Korea. 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

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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

Test Item	Test Standard	Test Result	Remark
Conducted Emissions at Mains Power Ports	ANSI C63.4a-2017	PASS	-
Radiated Emissions(Below 1 ㎓)		PASS	-
Radiated Emissions(Above 1 ㎓)		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

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3 General Product Description

Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		3840x2160, 3328x1872, 3072x1728, 2688x1512, 2592x1944, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264	15fps(60Hz/50Hz)
	MJPEG	15fps(@8MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.12
	BW(1/30sec, 30IRE)	0.012
Lens		
Focal Length (mm)		3.18~7.42
Zoom Ratio	Optical	2.33x
	Digital	None
Max Aperture Ratio (F number)	Wide	1.6
	Tele	2.7
Angular Field of View	Horizontal	108.8°~42.8°
	Vertical	57.6°~24.1°
	Diagonal	130.8°~49.1°
iFoV		None
Min. Object Distance		1.5m(1.64ft)
Focus Control		Simple focus
Lens Type		Fixed iris
Mount Type		None
Optional Lens		None
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	15°~100°
	Rotate	-10°~100°

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Operational		
Direction Indicator		None
Day & Night		Auto(ICR)
Backlight Compensation		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNRⅡ(Based on AI engine), SSNRⅤ
Digital Image Stabilization		Support
Defog		None
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	8point Polygonal zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic, Purple, Yellow
	Dynamic Privacy Masking: Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic, Purple, Yellow
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
	Speed Range	2~1/30,000sec
Digital PTZ		None
Video Rotation		Flip, Mirror, Hallway view(90°/270°) - Each channel separately
Serial Interface		None
Alarm Interface	In/Out	Selectable I/O 2 Port
	Others	Support alarm I/O via optional I/O box
Alarm Triggers		Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription, Case tampering, 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, Audio clip playback, MQTT: publication
Audio Streaming		None
Audio In		Support via optional I/O box
Audio Out		Support via optional I/O box
Light Type		IR LED
Light Viewable Length	Warm Light	None
	IR	PoE++ : WiseIR 25m(82.02ft) PoE+ : WiseIR 15m(49.21ft)
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, Vehicle
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, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear)
	Normal	Defocus detection, Tampering, Audio detection, Shock detection
Business Intelligence	Based on AI Engine	People counting, Queue management, Heatmap, Vehicle counting, Crowd counting
	Normal	None

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Network		
Ethernet		Metal shielded RJ-45(10/100/1000BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		None
Smart Codec		WiseStream(Based on AI engine)
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 5 profiles - 4K 2 Profiles - FHD 3 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, SMTP(StartTLS), Syslog
SIP support (VoIP, Peer-to-peer, SIP/PBX integration)		None
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, LDAP authentication
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), Security Built-in Process Certification (IEC 62443-4-1)
General		
Memory	RAM	8GB (4GB X 2)
	Flash	8GB eMMC (4GB X 2)
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 2slot(Total 2TB)
	SSD	None

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Environmental & Electrical		
Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	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 -20°C
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~100% RH(condensing)
Wind Load		None
EPA(Effective Projected Area)		None
Input Voltage		PoE+(IEEE802.3at, Class4), PoE++(IEEE802.3bt type3, Class5)
Power Consumption	PoE	PNM-A32084RQZ : Max. 36.5W, typical 23.3W PNM-A20084RQZ : Max. 38.1W, typical 25.2W
Wisepower		Power mode, Power monitoring
Power Redundance Failover		None
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)
RAL Code		RAL9003
Product Dimensions		Φ315x129.5(H)mm
Product Weight		PNM-A32084RQZ(4CH) : 3.8kg PNM-A24084RTZ(3CH) : 3.6kg
Compatible Conduit Hole		19.1mm(3/4")(M25)
Compatible Gang Box		Single, Double, 4" Octagon, Square
Status LED		Support

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4 EUT Setup and Operation Mode

4.1 EUT Configuration

Product Name	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	PNM-A32084RQZ	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
PoE Injector	GS728TPP	-	NETGEAR	-
Button Alarm	-	-	-	-
LED Alarm	PRO-SL	-	SENSOR PRO	-
Micro SD Card 1	-	-	SanDisk	-
Micro SD Card 2	-	-	SanDisk	-
Laptop	LG15U47	-	Tech-Front (Chongqing) Computer Co., Ltd.	-
Laptop Adapter	A13-040N3A	-	CHICONY POWER TECHNOLOGY (Chongqing) CO., LTD.	-

4.2 System Configuration

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

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4.3 External I/O Cabling

Start		END		Cable Spec	
Description	**I/O Port**	**Description**	**I/O Port**	**Length**	**Shield**
EUT	PoE++	PoE Injector	RJ-45(PoE)	5.0	U
	ALARM	Button Alarm	Alarm IN	3.1	U
		LED Alarm	Alarm OUT	3.2	U
	Micro SD Card Slot 1	Micro SD Card 1	Micro SD Card Slot 1	-	-
	Micro SD Card Slot 2	Micro SD Card 2	Micro SD Card Slot 2	-	-
PoE Injector	RJ-45(LAN)	Laptop	RJ-45(LAN)	5.0	U
Laptop Adapter	DC Jack		DC Jack	1.5	U

* Unshielded=U, Shielded=S

4.4 EUT Operating Mode(s)

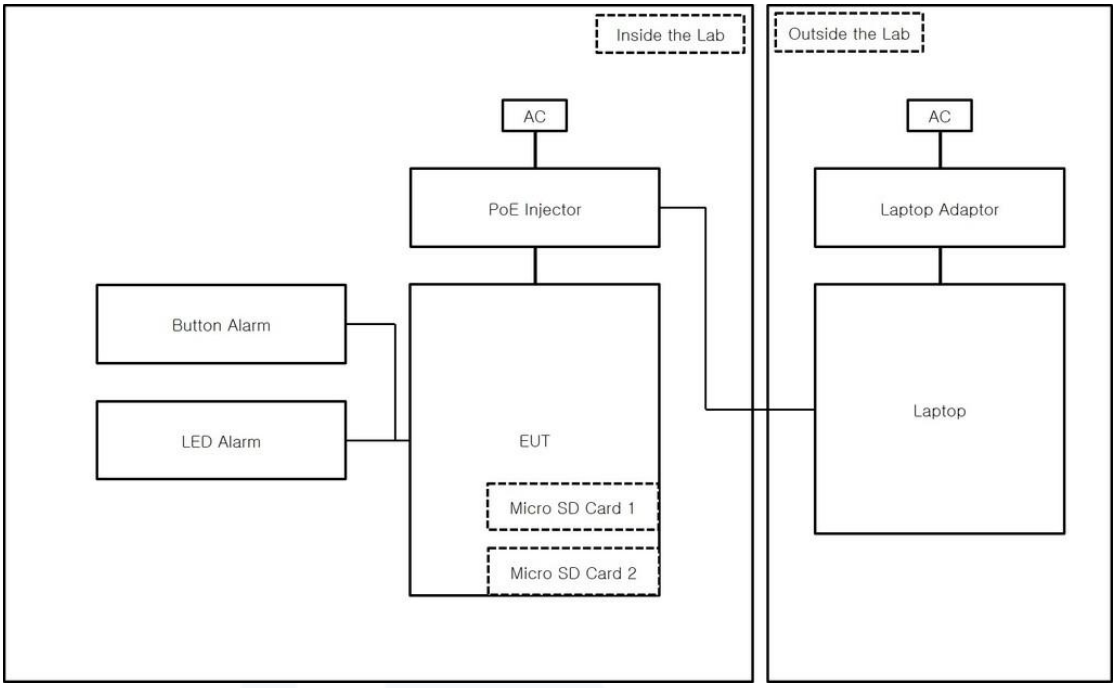
Category	Mode	Operating
Mode 1	PoE	1. Monitoring EUT Using Web Viewer, Ping Test 2. After testing, checked the files stored on Micro SD card #1, #2.

4.5 Test operating S/W

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

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4.6 Configuration



Mode 1

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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 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

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6 Test Item

6.1 Conducted Emissions at Mains Power Ports

6.1.1 Test Equipment

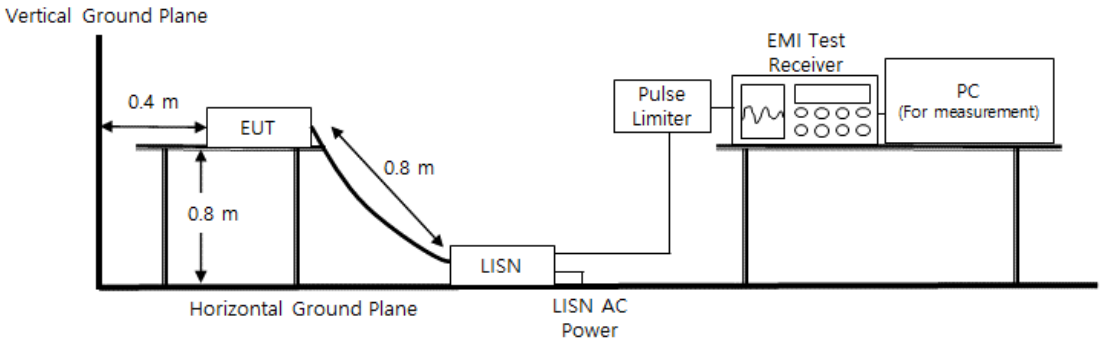
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SHIELD ROOM #6	-	DYMSTEC	-	-	-	■
EMC32 Measurement Software	EMC32	R&S	9.12.00	-	-	■
EMI TEST RECEIVER	ESR3	Rohde & Schwarz	101783	2025-11-03	2026-11-03	■
LISN	ENV216	Rohde & Schwarz	101787	2026-07-27	2027-07-27	■
ARTIFICIAL 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
(23.3 ~ 23.5) °C	(53.4 ~ 53.7) % R.H.

6.1.4 Diagram of test setup



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6.1.5 Test Result

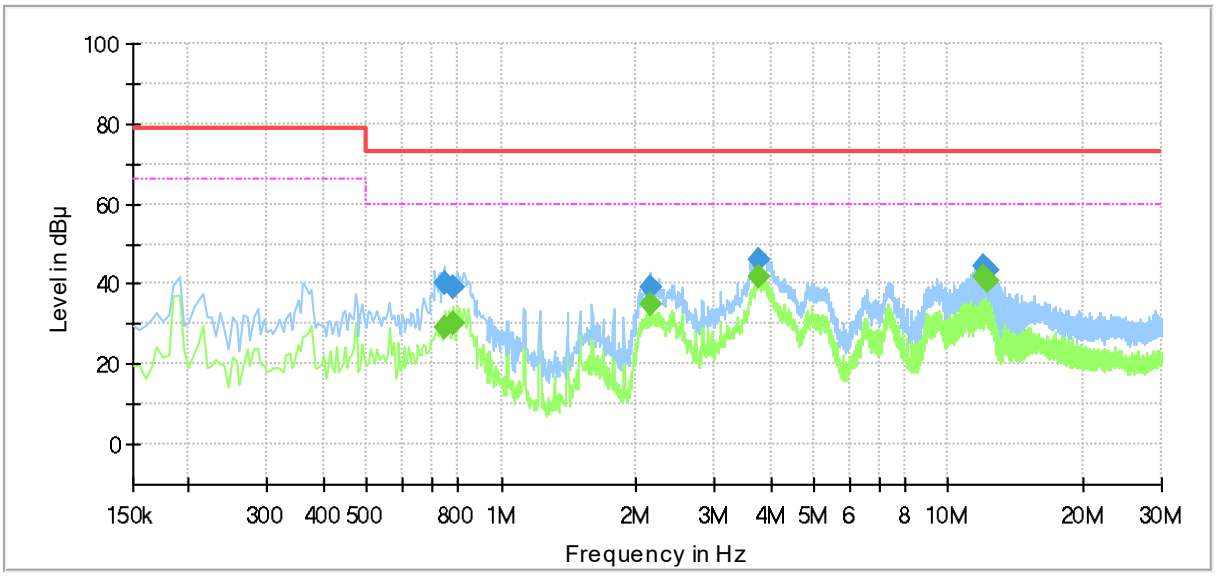
○ Test Date : 2026-08-20

● Test Mode : Mode 1

Test Report

Common Information

Test Description:	Conducted Emission
Job No.:	KES-EM262827
Phase:	L
Mode:	
Operator Name:	KES



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Corr. (dB)
0.745000	40.12	---	73.00	32.88	1000.0	9.000	L1	19.6
0.745000	---	28.93	60.00	31.07	1000.0	9.000	L1	19.6
0.780000	39.40	---	73.00	33.60	1000.0	9.000	L1	19.6
0.780000	---	30.19	60.00	29.81	1000.0	9.000	L1	19.6
2.160000	39.40	---	73.00	33.60	1000.0	9.000	L1	19.6
2.160000	---	34.71	60.00	25.29	1000.0	9.000	L1	19.6
3.765000	45.99	---	73.00	27.01	1000.0	9.000	L1	19.7
3.765000	---	42.02	60.00	17.98	1000.0	9.000	L1	19.7
12.020000	44.33	---	73.00	28.67	1000.0	9.000	L1	19.9
12.020000	---	41.85	60.00	18.15	1000.0	9.000	L1	19.9
12.210000	43.53	---	73.00	29.47	1000.0	9.000	L1	19.9
12.210000	---	40.92	60.00	19.08	1000.0	9.000	L1	19.9

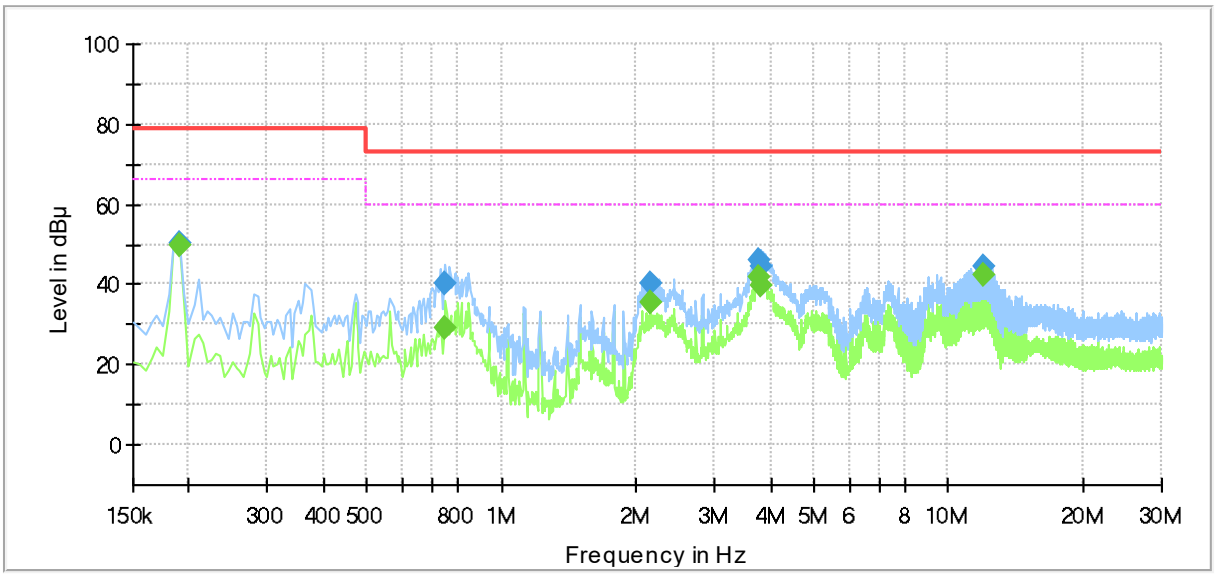
You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

○ Test Date : 2026-08-20
● Test Mode : Mode 1

Test Report

Common Information

Test Description:	Conducted Emission
Job No.:	KES-EM262827
Phase:	N
Mode:	
Operator Name:	KES



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Corr. (dB)
0.190000	50.04	---	79.00	28.96	1000.0	9.000	N	19.5
0.190000	---	49.68	66.00	16.32	1000.0	9.000	N	19.5
0.745000	40.01	---	73.00	32.99	1000.0	9.000	N	19.6
0.745000	---	29.13	60.00	30.87	1000.0	9.000	N	19.6
2.160000	40.04	---	73.00	32.96	1000.0	9.000	N	19.6
2.160000	---	35.48	60.00	24.52	1000.0	9.000	N	19.6
3.765000	45.87	---	73.00	27.13	1000.0	9.000	N	19.7
3.765000	---	41.91	60.00	18.09	1000.0	9.000	N	19.7
3.820000	44.72	---	73.00	28.28	1000.0	9.000	N	19.7
3.820000	---	39.49	60.00	20.51	1000.0	9.000	N	19.7
12.020000	44.40	---	73.00	28.60	1000.0	9.000	N	19.9
12.020000	---	42.22	60.00	17.78	1000.0	9.000	N	19.9

6.1.6 Remark

Complies with the test requirements.

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6.2 Radiated Emissions(Below 1 ㎓)

6.2.1 Test Equipment

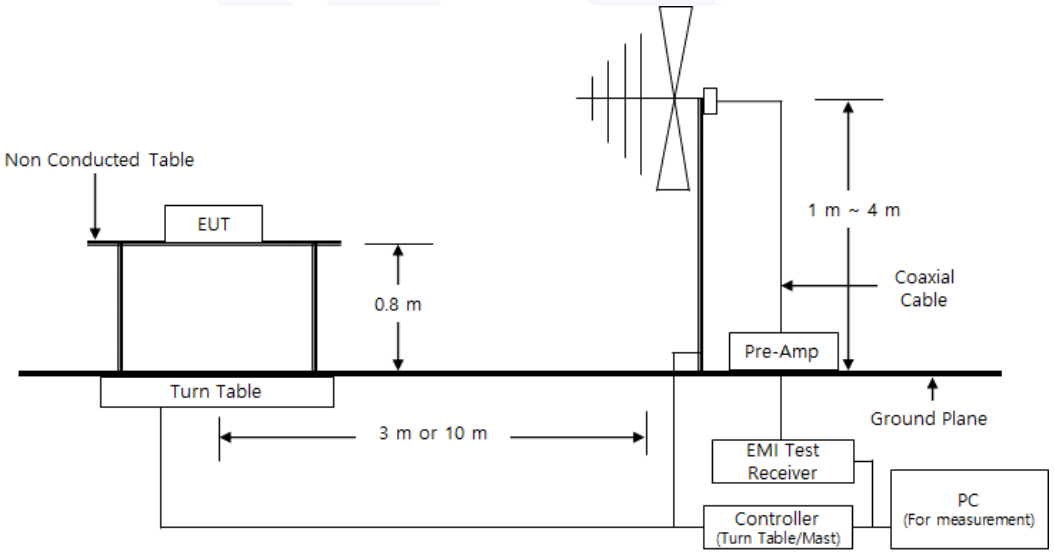
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #4(10 m)	-	DYMSTEC	-	-	-	■
EP5/RE Software	EP5/RE	TOYO	6.0.0	-	-	■
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100551	2026-02-12	2027-02-12	■
AMPLIFIER	SCU 01	Rohde & Schwarz	100574	2026-04-24	2027-04-24	■
TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	2024-11-08	2026-11-08	■

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
(25.6 ~ 25.9) °C	(57.6 ~ 57.9) % R.H.

6.2.4 Diafram of test setup

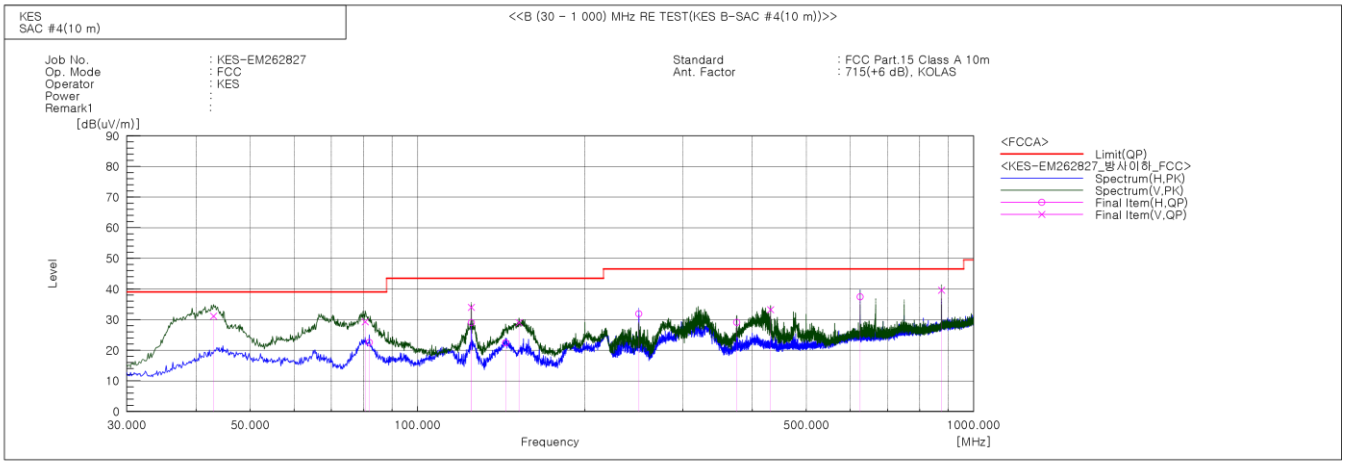


You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

6.2.5 Test Result

○ Test Date : 2026-08-20

● Test Mode : Mode 1_FCC



Final Result

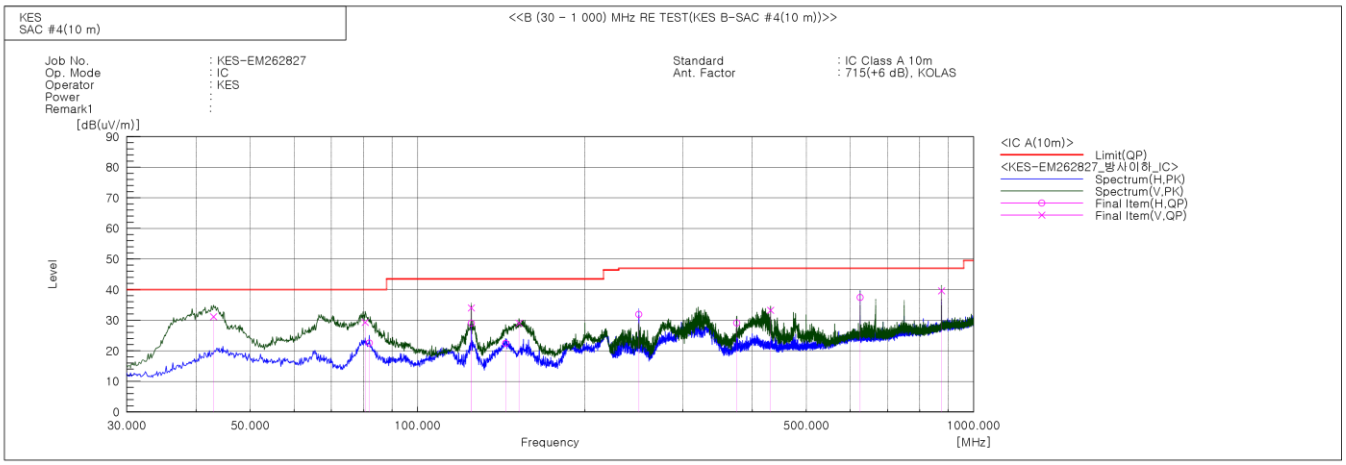
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	42.974	V	53.2	-22.1	31.1	39.0	7.9	100.0	231.0	
2	80.561	V	57.2	-27.9	29.3	39.0	9.7	103.0	217.0	
3	81.895	H	50.1	-27.6	22.5	39.0	16.5	400.0	289.0	
4	124.939	V	58.8	-24.8	34.0	43.5	9.5	100.0	72.0	
5	124.939	H	53.8	-24.8	29.0	43.5	14.5	391.0	154.0	
6	143.975	H	48.2	-25.8	22.4	43.5	21.1	400.0	317.0	
7	152.220	V	54.8	-25.8	29.0	43.5	14.5	100.0	333.0	
8	249.948	H	52.0	-20.1	31.9	46.5	14.6	400.0	142.0	
9	374.956	H	44.9	-15.8	29.1	46.5	17.4	306.0	305.0	
10	431.216	V	47.9	-14.7	33.2	46.5	13.3	101.0	275.0	
11	624.974	H	46.7	-9.3	37.4	46.5	9.1	400.0	223.0	
12	875.113	V	44.9	-5.3	39.6	46.5	6.9	196.0	275.0	

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

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

○ Test Date : 2026-08-20

● Test Mode : Mode 1_IC



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	42.974	V	53.2	-22.1	31.1	40.0	8.9	100.0	231.0	
2	80.561	V	57.2	-27.9	29.3	40.0	10.7	103.0	217.0	
3	81.895	H	50.1	-27.6	22.5	40.0	17.5	400.0	289.0	
4	124.939	V	58.8	-24.8	34.0	43.5	9.5	100.0	72.0	
5	124.939	H	53.8	-24.8	29.0	43.5	14.5	391.0	154.0	
6	143.975	H	48.2	-25.8	22.4	43.5	21.1	400.0	317.0	
7	152.220	V	54.8	-25.8	29.0	43.5	14.5	100.0	333.0	
8	249.948	H	52.0	-20.1	31.9	47.0	15.1	400.0	142.0	
9	374.956	H	44.9	-15.8	29.1	47.0	17.9	306.0	305.0	
10	431.216	V	47.9	-14.7	33.2	47.0	13.8	101.0	275.0	
11	624.974	H	46.7	-9.3	37.4	47.0	9.6	400.0	223.0	
12	875.113	V	44.9	-5.3	39.6	47.0	7.4	196.0	275.0	

※ 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.

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

6.3 Radiated Emissions(Above 1 ㎓)

6.3.1 Test Equipment

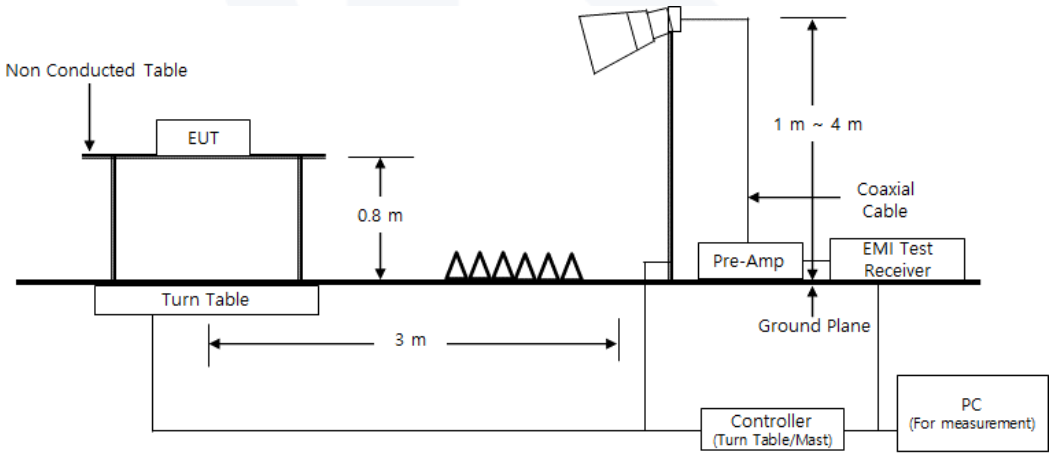
Equipment Name	Model Number	Manufacturer	Serial No.	Cal. Date	Next Cal. Date	Used
SEMI ANECHOIC CHAMBER #5	-	SY Corporation	-	-	-	■
ES10/RE Software	ES10/RE	TOYO	2022.01.000	-	-	■
EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	2026-02-12	2027-02-12	■
PREAMPLIFIER	8449B	HP	3008A00538	2026-04-29	2027-04-29	■
HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	2025-11-05	2026-11-05	■
ATTENUATOR	8491B	HP	23094	2026-02-12	2027-02-12	■

6.3.2 Test Location : SEMI ANECHOIC CHAMBER #5

6.3.3 Test Conditions :

Temperature	Relative Humidity
(24.9 ~ 25.1) °C	(54.5 ~ 54.9) % R.H.

6.3.4 Diagram of test setup

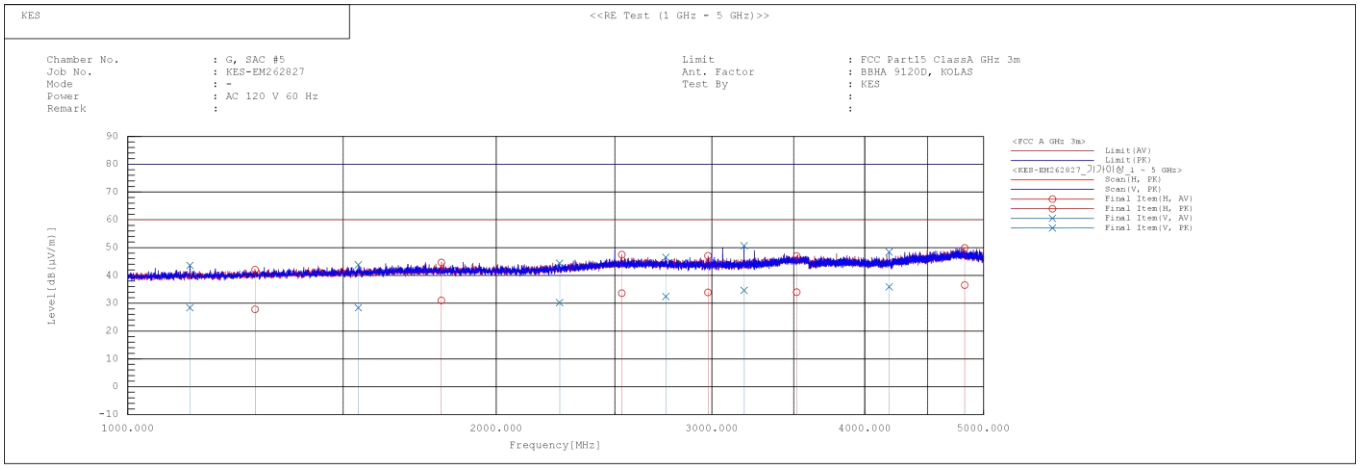


You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

6.3.5 Test Result

○ Test Date : 2026-08-17

● 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]	Angle [deg]
1	1124.117	V	29.9	45.1	-1.5	28.4	43.6	60.0	80.0	31.6	36.4	163.9
2	1270.679	H	28.4	42.7	-0.6	27.8	42.1	60.0	80.0	32.2	37.9	95.9
3	1543.255	V	27.8	43.2	0.6	28.4	43.8	60.0	80.0	31.6	36.2	99.1
4	1804.114	H	29.5	43.2	1.5	31.0	44.7	60.0	80.0	29.0	35.3	294.7
5	2253.455	V	26.9	41.1	3.3	30.2	44.4	60.0	80.0	29.8	35.6	338.9
6	2532.575	H	29.2	43.1	4.4	33.6	47.5	60.0	80.0	26.4	32.5	359.3
7	2750.976	V	27.3	41.4	5.1	32.4	46.5	60.0	80.0	27.6	33.5	189.2
8	2978.247	H	28.1	41.3	5.8	33.9	47.1	60.0	80.0	26.1	32.9	245.6
9	3187.855	V	28.6	44.7	6.0	34.6	50.7	60.0	80.0	25.4	29.3	162.1
10	3519.334	H	27.7	40.7	6.3	34.0	47.0	60.0	80.0	26.0	33.0	177.5
11	4187.764	V	27.5	40.0	8.4	35.9	48.4	60.0	80.0	24.1	31.6	152.3
12	4825.601	H	25.5	38.9	11.0	36.5	49.9	60.0	80.0	23.5	30.1	48.7

※ 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.

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

○ Test Date : 2026-08-17

● Test Mode : Mode 1

(5 ~ 16) GHz

PK

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)
6 752.400	38.700	V	1.000	35.260	9.650	34.780	48.830	80.000	31.170
6 781.000	38.700	H	1.000	35.390	9.700	34.770	49.020	80.000	30.980

Cispr-AV

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)
6 752.400	22.900	V	1.000	35.260	9.650	34.780	33.030	60.000	26.970
6 781.000	22.600	H	1.000	35.390	9.700	34.770	32.920	60.000	27.080

※ No spurious emission were detected above 16 GHz

6.3.6 Remark

Complies with the test requirements.

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

7 Test Setup Photos and EUT Photographs

7.1 Test Setup Photos

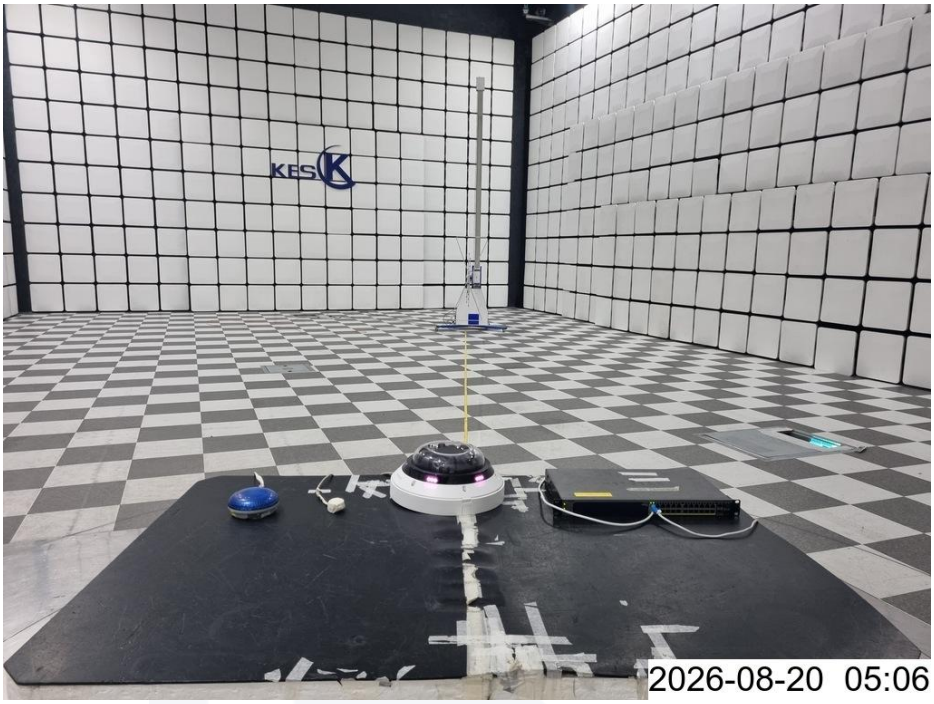


<Conducted Emissions at Mains Power Ports - Front>

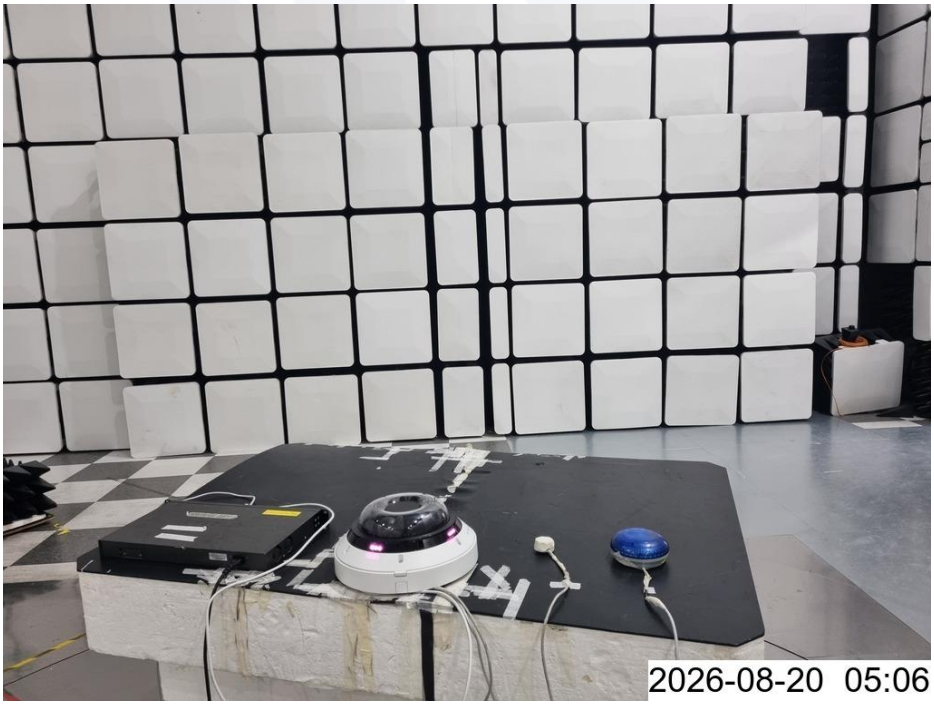


<Conducted Emissions at Mains Power Ports - Rear>

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).



<Radiated Emissions(Below 1 ㎓) - Front>

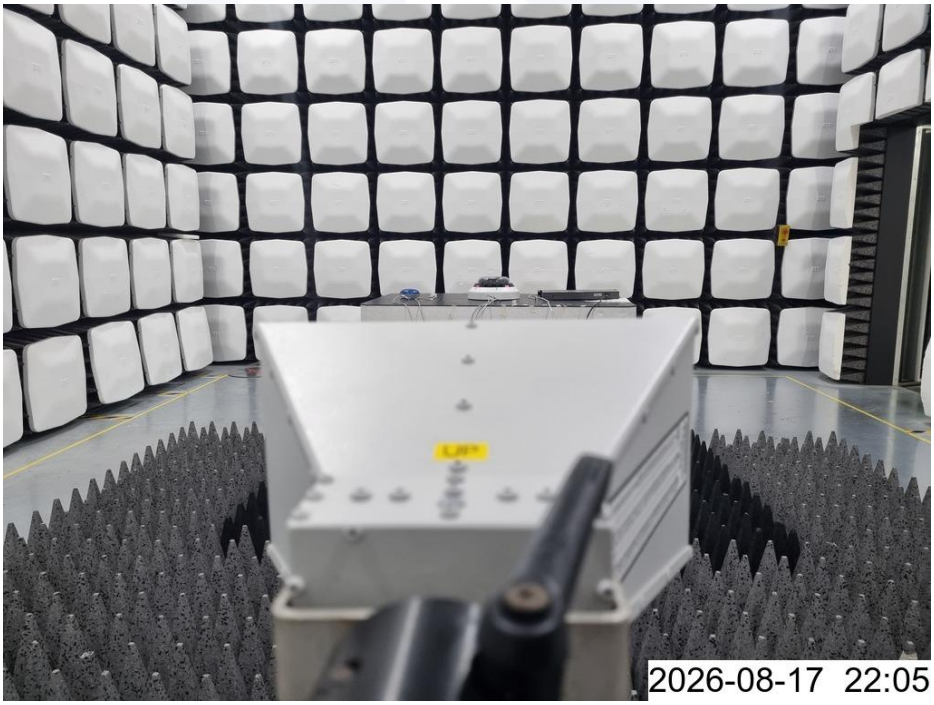


<Radiated Emissions(Below 1 ㎓) - Rear>

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).



<Radiated Emissions(Above 1 ㎓) - Front>



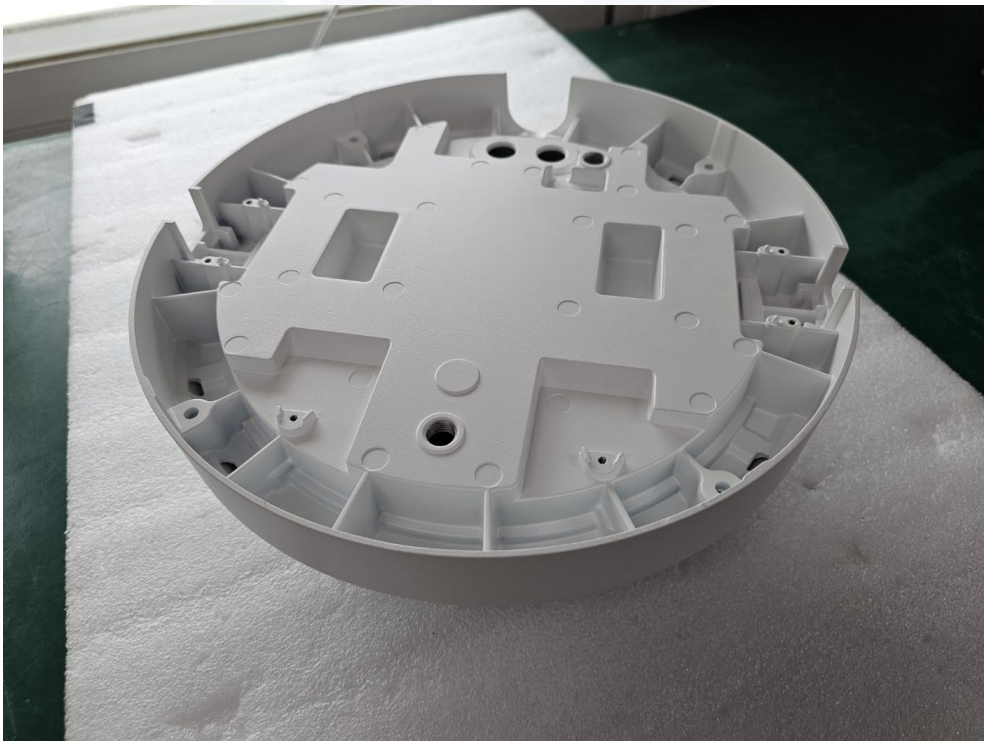
<Radiated Emissions(Above 1 ㎓) - Rear>

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

7.2 EUT Photographs



<EUT External Photographs - Top>



<EUT External Photographs - Bottom>

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).



<Components>



<Port-1>

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

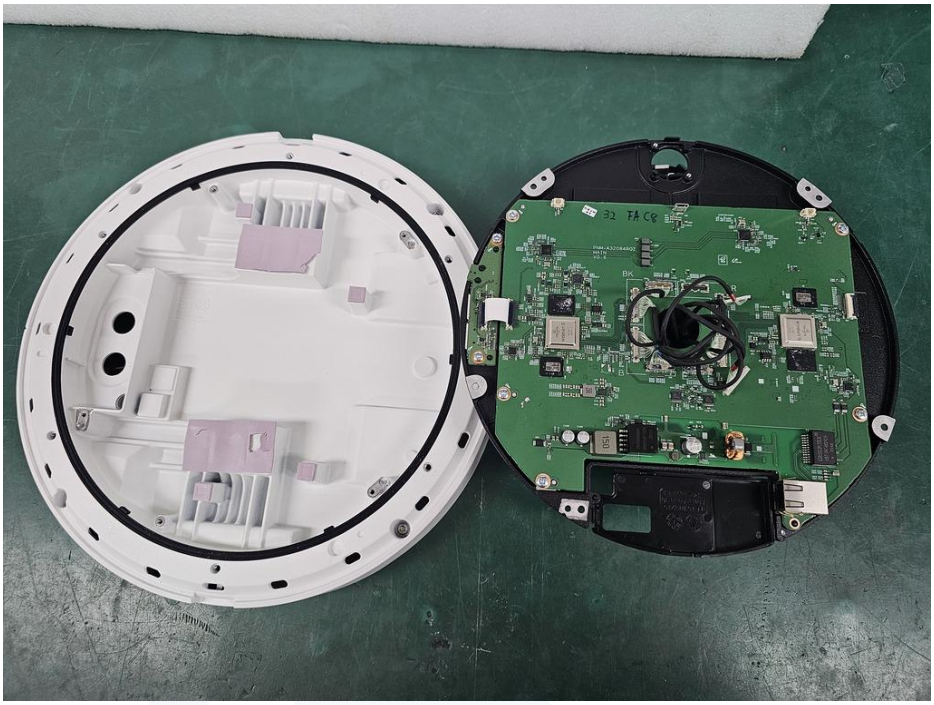


<Port-2>



<Port-3>

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).



<EUT Internal Photographs>

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).

7.3 Label

	Name	: Hanwha Vision Co., Ltd.
	Product item	: NETWORK CAMERA
	Model name	: PNM-A32084RQZ
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.

You can check the authenticity of this test report on the authenticity verification page on our website (www.kes.co.kr).