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

Applicant : Hanwha Vision Co., Ltd

Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Sample Description

Product name : NETWORK CAMERA

Model/Type No. : XNO-A8084R

Variant Model : -

Manufacturer : 1. HANWHA VISION VIETNAM COMPANY LIMITED
2. D-TECH CO.,LTD.

Manufacturer Address : 1. Lot O-2, Que Vo Industrial Zone extended Area, Nam Son Ward, Bac Ninh City, Bac Ninh Province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do, Korea (Suwon Industrial Complex)

3. Equipment authorization : Supplier's Declaration of Conformity

4. Date of Receipt : Jan. 20, 2025

5. Test date : Jan. 25, 2025 ~ Jan. 26, 2025

6. Date of Issue : Feb. 24, 2025

7. Test Results : In Compliance

Tested by

[전은구]2025/02/24

Eun Gu, Jeon
EMC Test Engineer

Reviewed by

[장동훈]2025/02/24

Dong Hun, Jang
EMC Technical Manager

This test report is not related to KS Q ISO/IEC 17025 and KOLAS.

REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Feb. 24, 2025	KES-EM250229	Issued

TABLE OF CONTENTS

1.0 General Product Description

Main Specifications of EUT are:

Division		Specificity
Internal highest clock frequency		3 200 ㎒
Power	Rated Power	PoE
	Test Power	AC 230 V, 50 ㎐
Ports	I/O Port	RJ-45(PoE) 1 EA, Micro SD Slot 1 EA, ALARM AUDIO 1 EA
	Unused Port	USB C Type 1 EA
Components		EUT 1 EA, ALARM AUDIO Cable 1 EA
Ethernet Speed		100 Mbps

Video	
Imaging Device	1/2.8" CMOS
Resolution	**2560x1920**, **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(@5MP Max. 5fps)
NETD	None
Pixel Size	None
Video Out	USB: Micro USB Type C for installation
Video Transmission Distance	None
Lens	
Focal Length (Zoom Ratio)	3.3~9.3mm(2.8x) motorized varifocal
Optical Zoom	None
Max. Aperture Ratio	F1.3(Wide)~F2.3(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°~90° / 0°~360°
Pan Range	None
Pan Speed	None
Tilt Range	None
Tilt Speed	None
Rotate Range	None
Sequence	None
Preset Accuracy	None
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	SSNR V, WiseNR II (Based on AI engine)
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Gain Control	Off / Max Gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
LDC	Support(Fill/Stretch mode)
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 *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
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)
Audio Out	Line out
Light Type	IR LED
Light Viewable Length	WiseIR 40m(131.23ft)
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
Radiometry	
Temperature Detect Range	None
Temperature Accuracy	None
Temperature Detection	None
Additional	None

Network	
Ethernet	Metal shielded 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: 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, S	Support
Security	None
Application Programming Interfac	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
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 1TB
Memory	4GB RAM, 8GB eMMC
Environmental & Electrical	
Operating Temperature / Humidi	-40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 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
Certification	IP66/IP67, NEMA4X, IK10, **NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9)**
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	PoE: Max. 12.95W

Mechanical	
Color / Material	White / Aluminum Hard-coated window Recycled plastic: ??%
RAL Code	RAL9003
Product Dimensions / Weight	ø93.4x276.6mm(3.68x10.89"), 1630g(3.59lb)
Compatible Conduit hole / Gangb	Single, double, 4" octagon, 4" square
Certifications & Standards	
Network	None
EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A KS C 9832 Class A , KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9) IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78
Video	None
Compatible Models	
Hanging Adaptor	SBP-160HMW1
Back Box	Included
Ceiling Mount (Assy)	SBP-150CMI, SBP-300CMI, SBP-300CMW1, SBP-900CMW, SBP-300CMTW, SBP-300CMTS
Ceiling Mount (Single Unit)	SBP-180CMB, SBP-140CMB, SBP-180CMS, SBP-900CMP, SBP-300CMP, SBP-150CMP, SBP-C15P, SBP-C15H
Wall Mount	SBP-160WMW1, SBP-400WMW, SBP-250WMW, SBP-300WMW, SBP-300WMW1
Wall Mount Adaptor	None
Pole Mount	SBD-180PMW, SBP-300PMW2
In-ceiling Mount	None
Corner Mount	SBP-156KMW, SBP-300KMW1, SBD-180KMA
Parapet Mount	SBP-156LMW1, SBP-300LMW
Tilt Mount	None
Cabinet	SBP-150NBW, SBP-300NBW
Housing	None
Gang Plate	None
Skin Cover	None
Weather Cap	None
Dome Cover	None
Conduit Adaptor	SBP-060BA
Power Module	None
Interface Box	SPM-4210
Other Compatible Models	SPP-C7400, SBP-115PFA

1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

☒ AC 120 V, 60 Hz (PoE Adapter Input Power)

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	XNO-A8084R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Injector	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co.,Ltd	-
Laptop	P95G001	9JM8HT2	DELL INC.	-
Laptop Adapter	HA65NM130	-	Chicony Power Technology(Suzhou)Co.,Ltd.	-
Micro SD Card	-	-	-	-
Headset	K550	-	Britz®	-
Alarm	-	-	-	-
Button Alarm	-	-	-	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	**I/O Port**	**Description**	**I/O Port**	**Length**	**Shield**
NETWORK CAMERA (EUT)	RJ-45 (PoE)	PoE Injector	RJ-45 (PoE)	3.1	U
	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
	ALARM AUDIO (SPEAKER)	Headset	Line	1.8	U
	ALARM AUDIO (MIC)				
	ALARM AUDIO (ALARM IN)	Alarm	Line	3.1	U
	ALARM AUDIO (ALARM OUT)	Button Alarm	Line	3.1	U
PoE Adapter	RJ-45 (LAN)	Laptop	RJ-45 (LAN)	1.8	U
Laptop	DC Jack	Laptop Adapter	Line	1.2	U

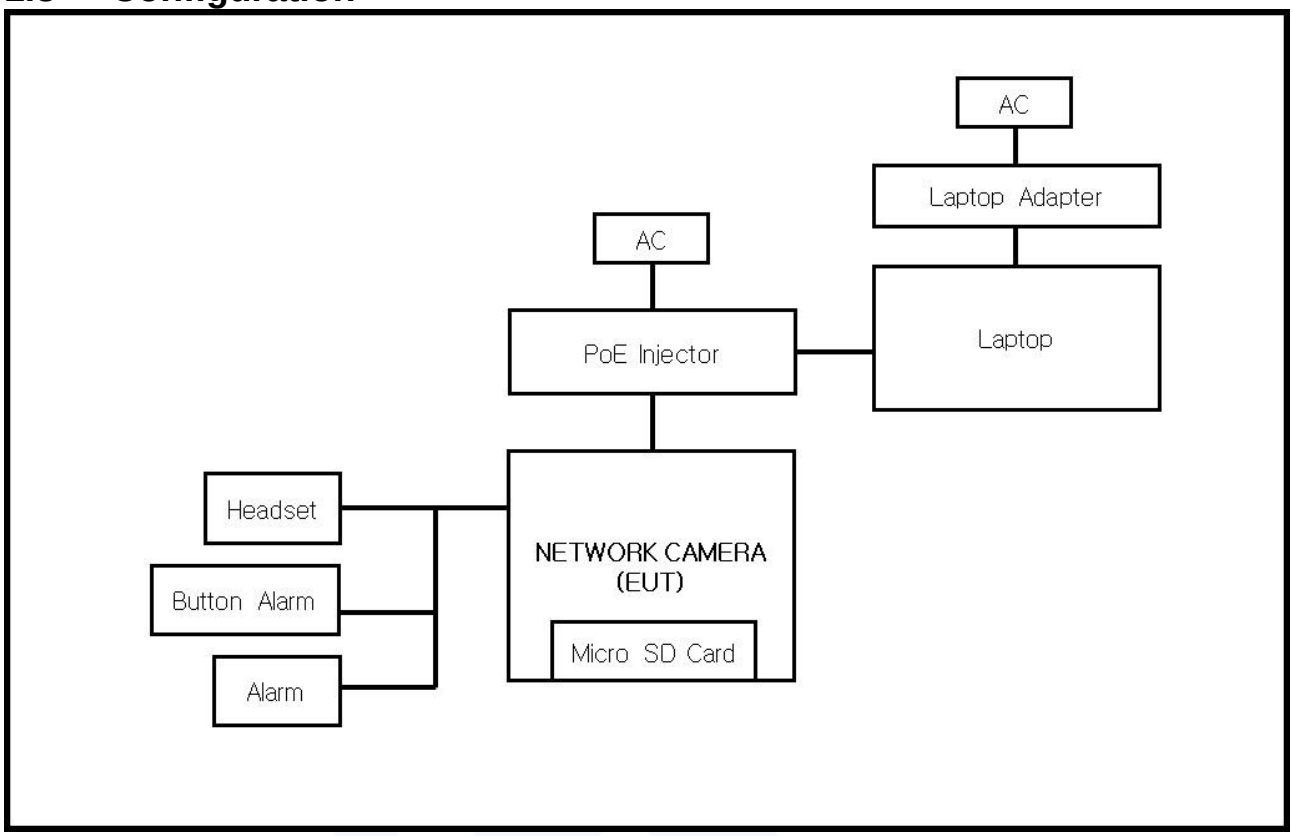
* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

Test mode	Normal operating
Operating	- Check the network behavior of the EUT with the laptop's ping test - View images of the camera through the Web Viewer - Insert 1 ㎑ tone through the web viewer to see if the sound is output to the headset - Enable the MIC through the Web Viewer to check the operation of the headset microphone - After testing, check the recording with Micro SD Card

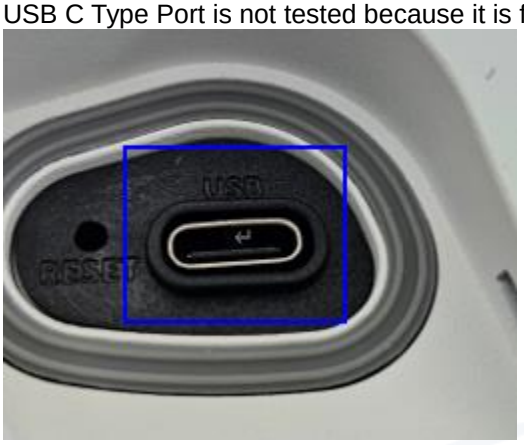
EUT Test operating S/W		
Name	**Version**	**Manufacture Company**
Web Viewer	-	HANWHA VISION VIETNAM COMPANY LIMITED

1.8 Configuration



1.9 Remarks when standards applied

USB C Type Port is not tested because it is for unused port.



1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

1.11 Test Facility

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

1.12 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

2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **47 CFR Part 15, Subpart B**

☐ CISPR 22:2009 +A1:2010	☐ Class A	☐ Class B
☒ ANSI C63.4a-2017	☒ Class A	☐ Class B

☒ **IC Regulation ICES-003 Issue 7**

☐ CAN/CSA-CISPR 32:17	☐ Class A	☐ Class B
☒ ANSI C63.4a-2017	☒ Class A	☐ Class B

2.1 Conducted Emissions at Mains Power Ports

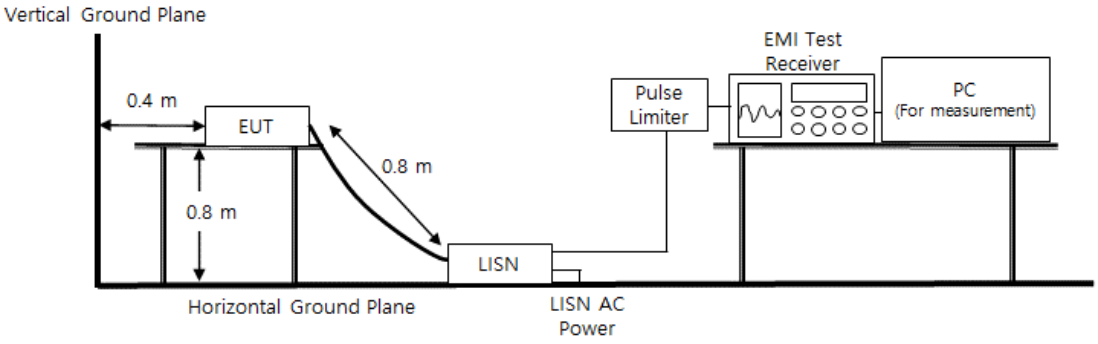
Test Date
Jan. 25, 2025

Test Location
Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 06, 2025
☒	LISN	ENV216	R & S	101786	01, 09, 2026
☒	ARTIFICIAL MAINS NETWORK	ESH2-Z5	R & S	100450	11, 06, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025

Diagram of test setup



Test Conditions

Temperature: (23,6 ± 0,1) ℃

Relative Humidity: (46,2 ± 0,1) % R.H.

Frequency Range of Measurement

150 ㎑ to 30 ㎒

Instrument Settings

IF Band Width: 9 ㎑

Test Results

The requirements are:

☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

2.2 Radiated Electric Field Emissions(Below 1 ㎓)

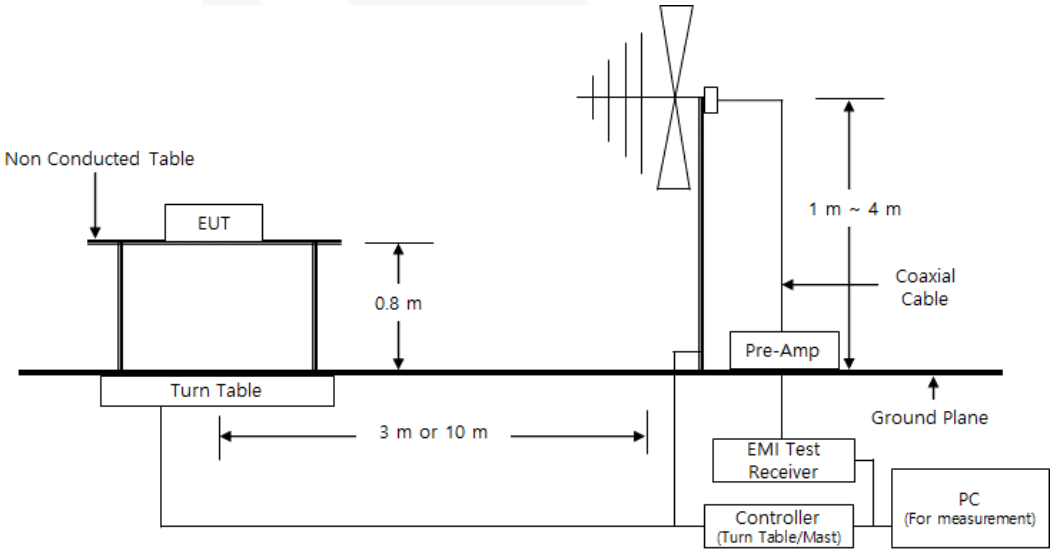
Test Date
Jan. 25, 2025

Test Location
☐ OPEN AREA TEST SITE #2 ☒ SEMI ANECHOIC CHAMBER #4(10m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	02, 13, 2025
☒	AMPLIFIER	SCU 01	R & S	100603	11, 06, 2025
☒	BILOG ANTENNA	VULB 9168	SCHWARZBECK	9168-461	05, 09, 2026
☒	ATTENUATOR	6806.17.A	HUBER+SUHNER	-	02, 13, 2025

Diagram of test setup



Test Conditions

Temperature: (22,7 ± 0,1) ℃

Relative Humidity: (46,0 ± 0,1) % R.H.

Frequency Range of Measurement

30 ㎒ to 1 ㎓

Instrument Settings

IF Band Width: 120 ㎑

Test Results

The requirements are:

☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

2.3 Radiated Electric Field Emissions(Above 1 ㎓)

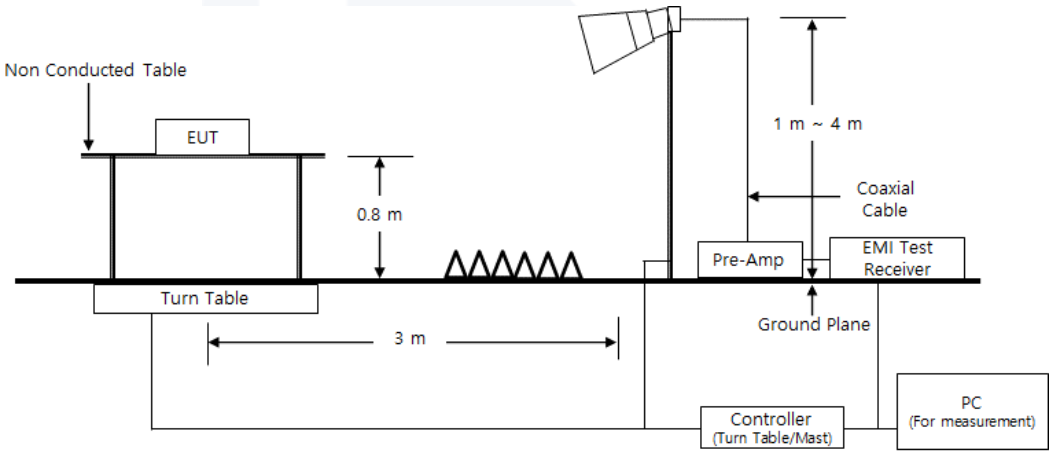
Test Date
Jan. 26, 2025

Test Location
SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	ES10/RE	TOYO Corporation	2022.01.000	-
☒	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	02, 13, 2025
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	11, 04, 2025
☒	PREAMPLIFIER	8449B	HP	3008A00538	04, 30, 2025
☒	ATTENUATOR	8491B	HP	23094	02, 13, 2025

Diagram of test setup



Test Conditions

Temperature: (22,7 ± 0,1)℃

Relative Humidity: (45,8 ± 0,1) % R.H.

Frequency Range of Measurement

1 ㎓ to 9 ㎓

Instrument Settings

IF Band Width: 1 ㎒

Test Results

The requirements are:

☒ PASS

☐ NOT PASS

☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

The Average of the test data is the cispr average result.

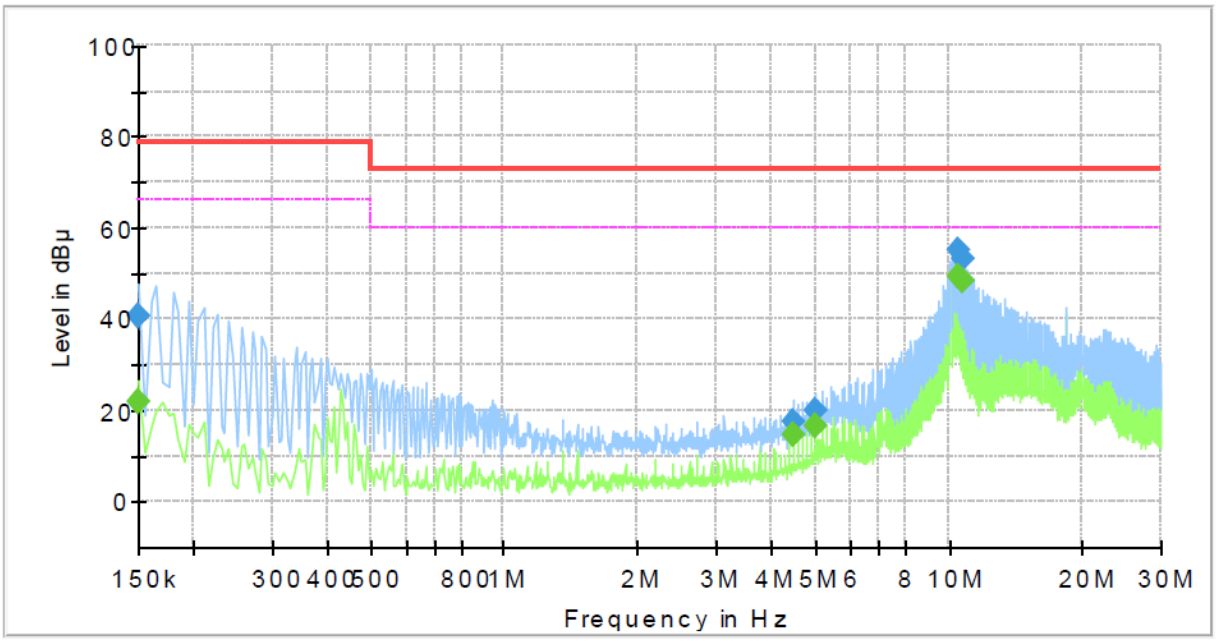
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description:	Conducted Emission
Job No.:	KES-EM250229
Phase:	L
Mode:	
Operator Name:	KES



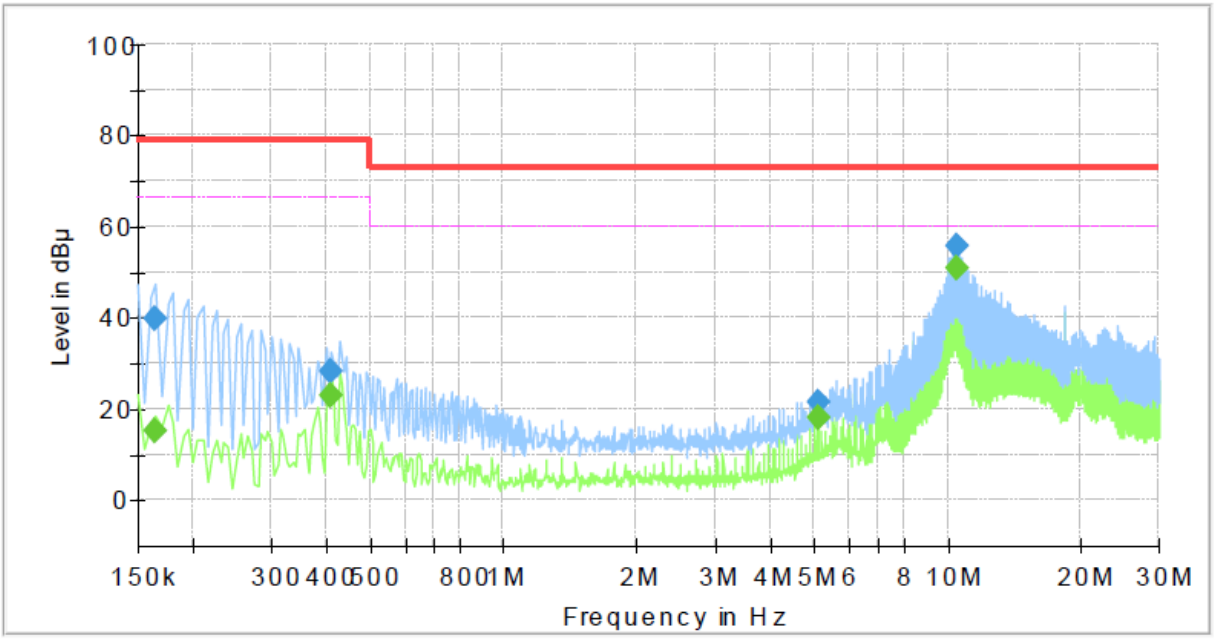
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	21.87	66.00	44.13	1000.0	9.000	L1	19.6
0.150000	40.54	---	79.00	38.46	1000.0	9.000	L1	19.6
4.480000	---	14.57	60.00	45.43	1000.0	9.000	L1	19.9
4.480000	17.62	---	73.00	55.38	1000.0	9.000	L1	19.9
5.000000	---	16.72	60.00	43.28	1000.0	9.000	L1	20.0
5.000000	20.10	---	73.00	52.90	1000.0	9.000	L1	20.0
10.520000	---	49.53	60.00	10.47	1000.0	9.000	L1	20.1
10.520000	54.93	---	73.00	18.07	1000.0	9.000	L1	20.1
10.730000	---	48.50	60.00	11.50	1000.0	9.000	L1	20.1
10.730000	53.28	---	73.00	19.72	1000.0	9.000	L1	20.1

NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Job No.:	KES-EM250229
Phase:	N
Mode:	
Operator Name:	KES



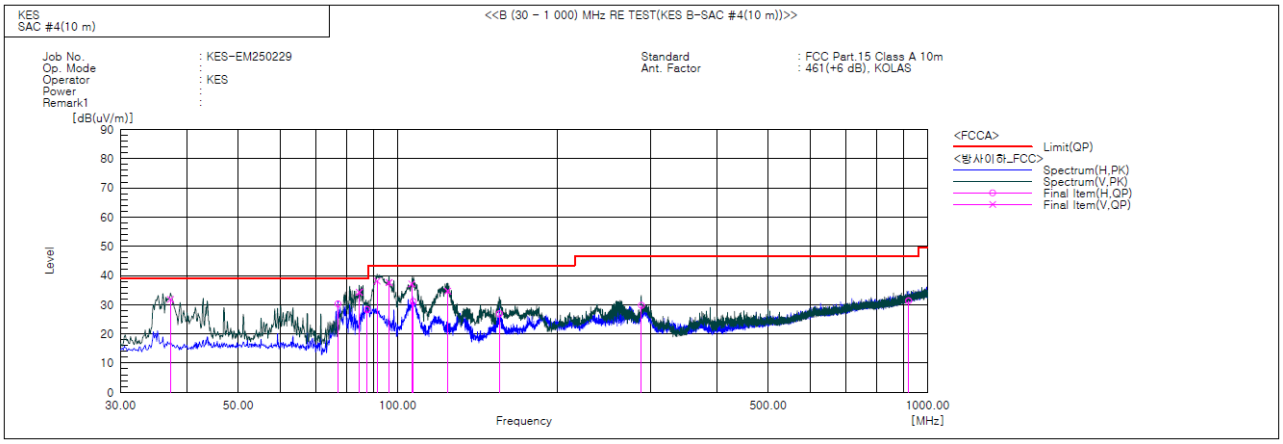
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165000	---	15.00	66.00	51.00	1000.0	9.000	N	19.6
0.165000	39.78	---	79.00	39.22	1000.0	9.000	N	19.6
0.410000	---	22.97	66.00	43.03	1000.0	9.000	N	19.6
0.410000	28.06	---	79.00	50.94	1000.0	9.000	N	19.6
5.105000	---	18.02	60.00	41.98	1000.0	9.000	N	19.9
5.105000	21.26	---	73.00	51.74	1000.0	9.000	N	19.9
10.520000	---	50.90	60.00	9.10	1000.0	9.000	N	20.1
10.520000	55.56	---	73.00	17.44	1000.0	9.000	N	20.1

♦ Calculation
QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + 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 Electric Field Emissions(Below 1 ㎓)

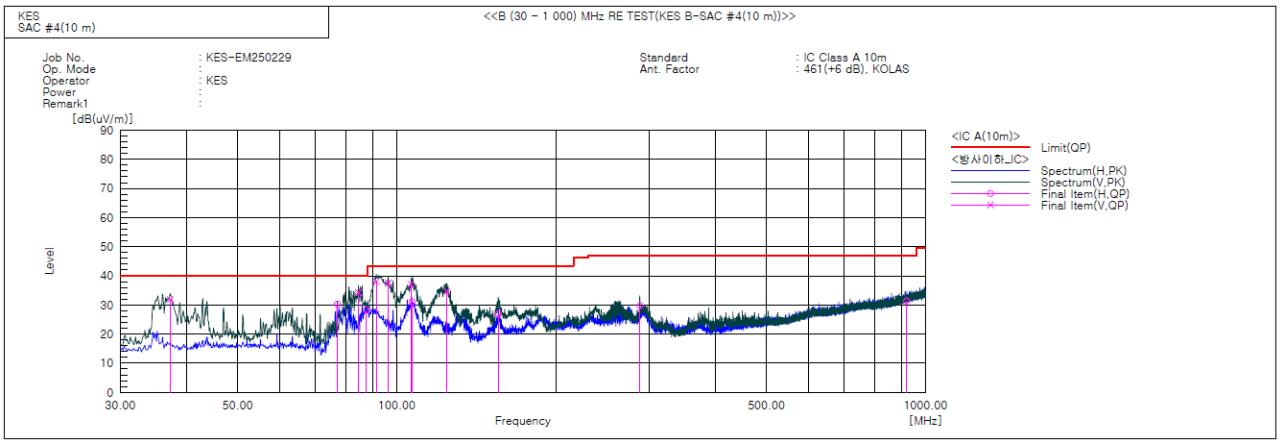
- 47 CFR Part 15, Subpart B



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	37.275	V	54.0	-22.2	31.8	39.0	7.2	124.0	353.0	
2	77.166	H	55.3	-25.0	30.3	39.0	8.7	366.0	209.0	
3	84.563	V	60.5	-26.2	34.3	39.0	4.7	167.0	295.0	
4	87.473	H	54.6	-26.3	28.3	39.0	10.7	382.0	353.0	
5	91.474	V	64.3	-26.2	38.1	43.5	5.4	134.0	246.0	
6	96.324	V	63.2	-25.6	37.6	43.5	5.9	162.0	248.0	
7	106.267	V	61.3	-24.1	37.2	43.5	6.3	113.0	270.0	
8	106.921	H	55.1	-24.0	31.1	43.5	12.4	351.0	213.0	
9	124.211	V	56.7	-22.0	34.7	43.5	8.8	113.0	118.0	
10	155.615	H	46.4	-19.5	26.9	43.5	16.6	366.0	240.0	
11	288.195	H	47.5	-17.7	29.8	46.5	16.7	399.0	357.0	
12	920.460	H	32.6	-1.3	31.3	46.5	15.2	378.0	218.0	

- IC Regulation ICES-003 Issue 7



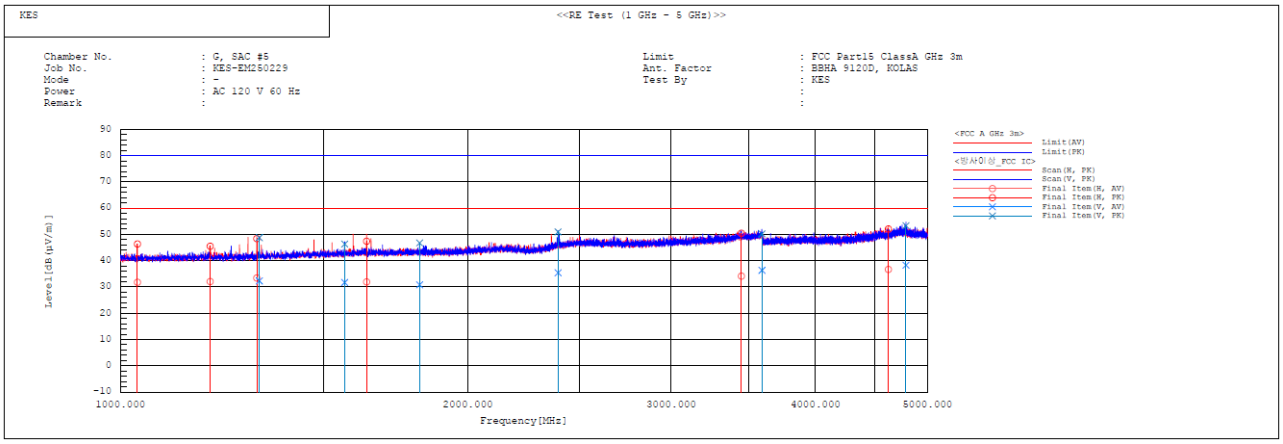
Final Result

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	37.275	V	54.0	-22.2	31.8	40.0	8.2	124.0	353.0	
2	77.166	H	55.3	-25.0	30.3	40.0	9.7	366.0	209.0	
3	84.563	V	60.5	-26.2	34.3	40.0	5.7	167.0	295.0	
4	87.473	H	54.6	-26.3	28.3	40.0	11.7	382.0	353.0	
5	91.474	V	64.3	-26.2	38.1	43.5	5.4	134.0	246.0	
6	96.324	V	63.2	-25.6	37.6	43.5	5.9	162.0	248.0	
7	106.267	V	61.3	-24.1	37.2	43.5	6.3	113.0	270.0	
8	106.921	H	55.1	-24.0	31.1	43.5	12.4	351.0	213.0	
9	124.211	V	56.7	-22.0	34.7	43.5	8.8	113.0	118.0	
10	155.615	H	46.4	-19.5	26.9	43.5	16.6	366.0	240.0	
11	288.195	H	47.5	-17.7	29.8	47.0	17.2	399.0	357.0	
12	920.460	H	32.6	-1.3	31.3	47.0	15.7	378.0	218.0	

♦ Calculation
Result(QP) [dB(㎶/m)] = (Reading(QP)[dB(㎶)] + c.f[dB(1/m)]
Margin(QP)[dB] = Limit[dB(㎶/m)] – Result(QP) [dB(㎶/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 Electric Field Emissions(Above 1 ㎓)

(1 ~ 5) ㎓



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	1034.861	H	33.3	47.9	-1.5	31.8	46.4	60.0	80.0	28.2	33.6	194.0	163.2	
2	1196.461	H	32.7	46.1	-0.6	32.1	45.5	60.0	80.0	27.9	34.5	221.0	226.1	
3	1312.561	H	33.4	48.4	0.0	33.4	48.4	60.0	80.0	26.6	31.6	271.0	157.5	
4	1319.461	V	32.2	48.7	0.1	32.3	48.8	60.0	80.0	27.7	31.2	114.0	27.1	
5	1564.632	V	30.5	45.2	1.2	31.7	46.4	60.0	80.0	28.3	33.6	127.0	69.5	
6	1634.007	H	30.4	45.9	1.5	31.9	47.4	60.0	80.0	28.1	32.6	177.0	151.4	
7	1816.351	V	28.7	44.7	2.1	30.8	46.8	60.0	80.0	29.2	33.2	152.0	212.4	
8	2394.346	V	31.0	46.6	4.4	35.4	51.0	60.0	80.0	24.6	29.0	106.0	265.9	
9	3451.162	H	27.2	43.6	6.9	34.1	50.5	60.0	80.0	25.9	29.5	197.0	347.0	
10	3594.712	V	29.0	42.9	7.3	36.3	50.2	60.0	80.0	23.7	29.8	142.0	200.6	
11	4625.606	H	25.9	41.3	10.8	36.7	52.1	60.0	80.0	23.3	27.9	235.0	176.1	
12	4791.238	V	26.9	41.9	11.4	38.3	53.3	60.0	80.0	21.7	26.7	128.0	135.2	

(5 ~ 9) ㎓

- 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)
6 710.200	42.600	H	1.000	34.910	9.350	34.740	52.120	80.000	27.880
8 914.600	39.600	V	1.000	38.180	10.710	34.450	54.040	80.000	25.960

- 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)
6 710.200	28.100	H	1.000	34.910	9.350	34.740	37.620	60.000	22.380
8 914.600	26.700	V	1.000	38.180	10.710	34.450	41.140	60.000	18.860

♦ Calculation

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

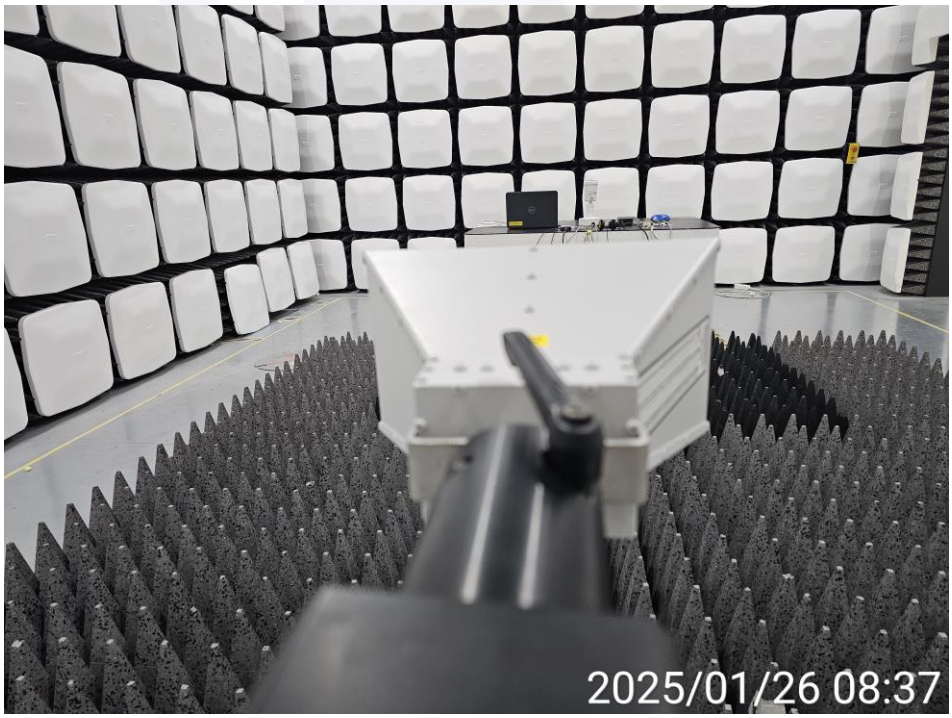
Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

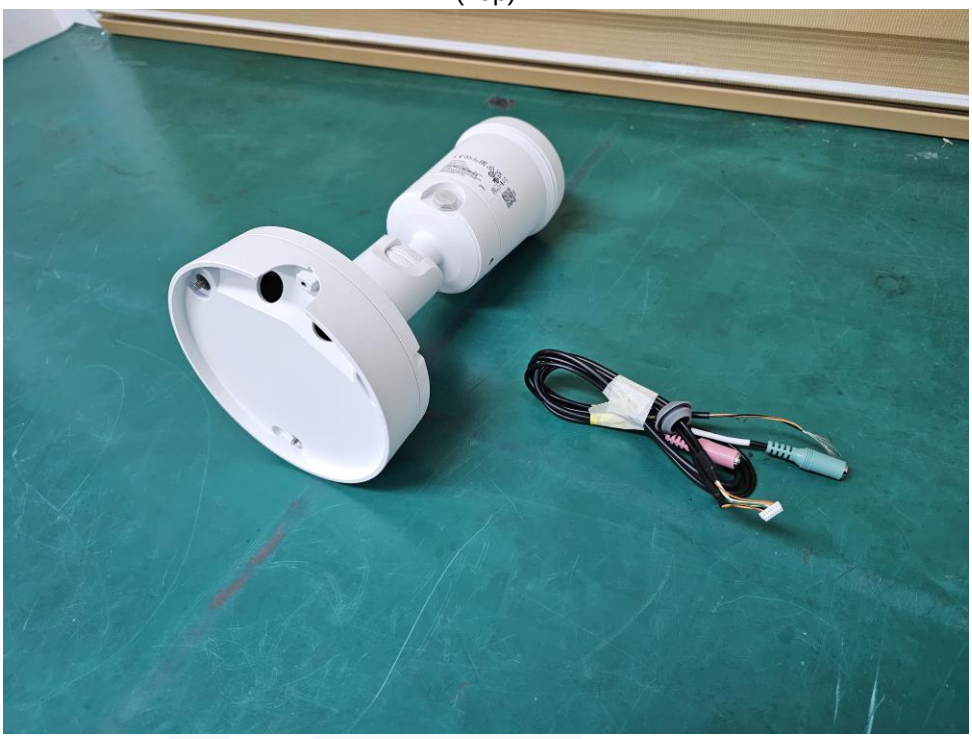
Radiated Electric Field Emissions(Below 1 ㎓)

Radiated Electric Field Emissions(Above 1 ㎓)



EUT External Photographs

(Top)



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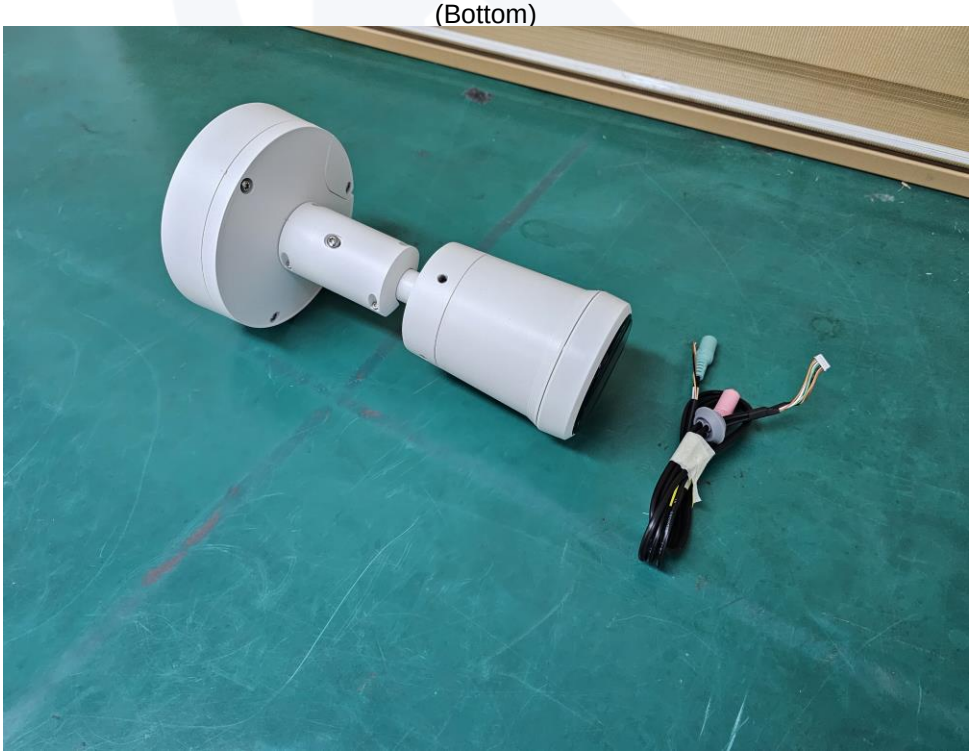
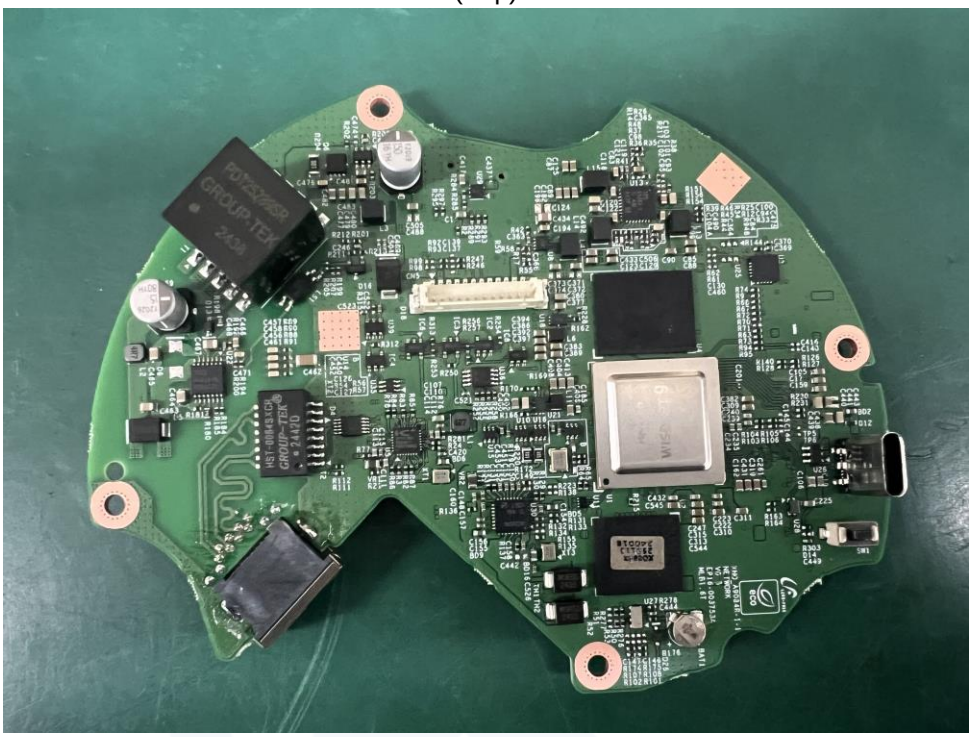


EUT Internal Photographs

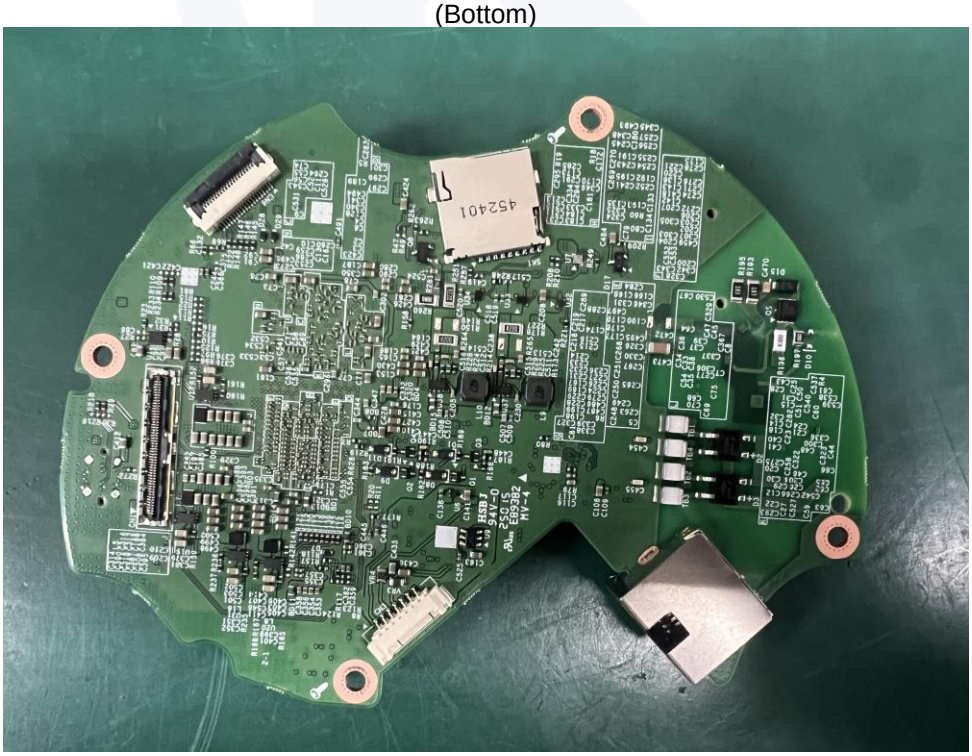
(Internal View)

EUT Internal View – Main Board

(Top)

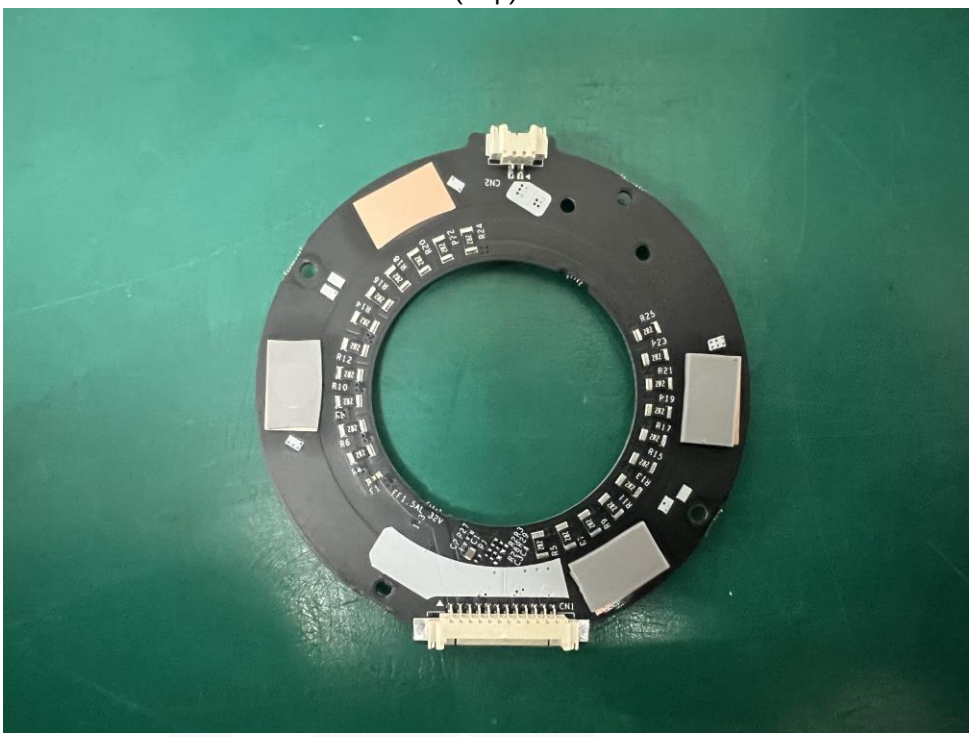


(Bottom)



EUT Internal View – Board

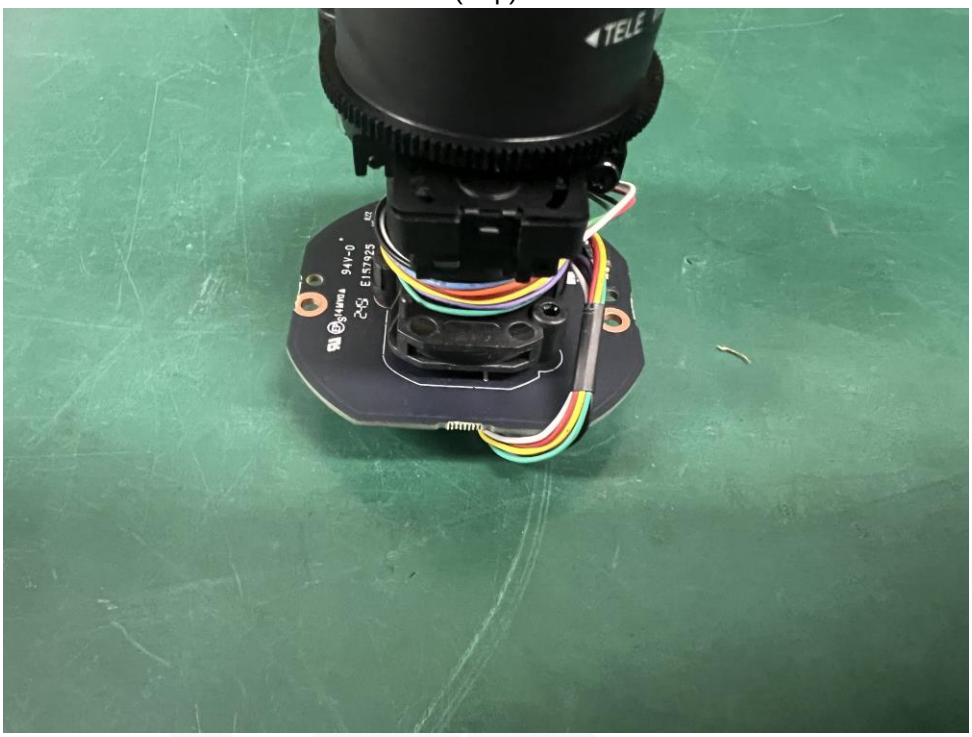
(Top)



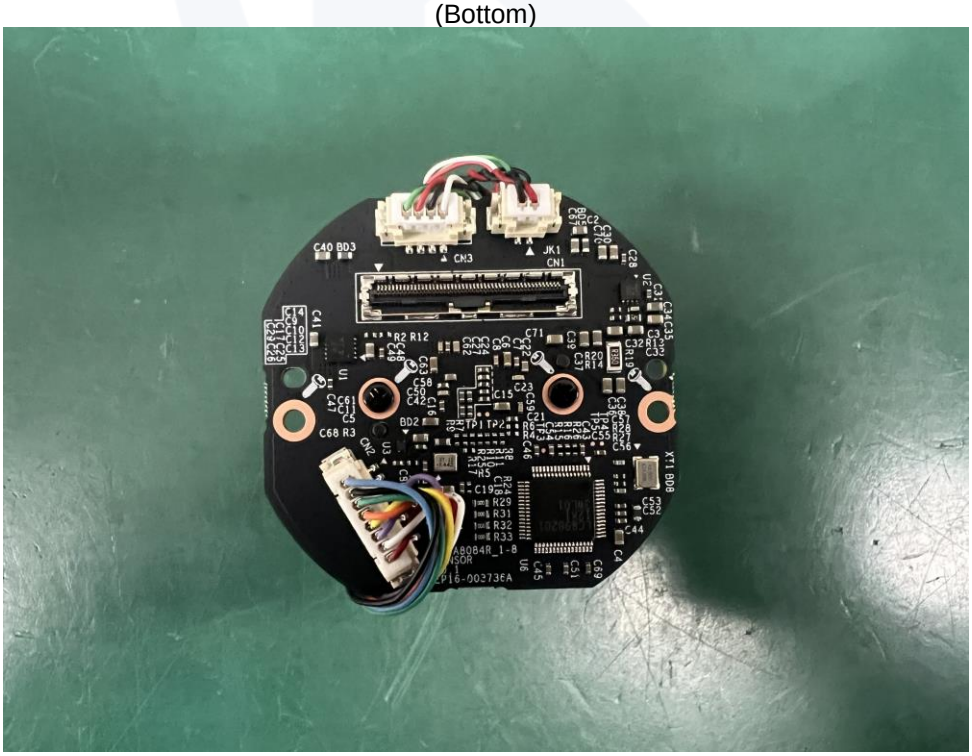
(Bottom)

EUT Internal View – Camera board

(Top)



(Bottom)



Label Photographs

FCC Label

NETWORK CAMERA

XNO-A8084R

IC Label

CAN ICES-003(A) / NMB-003(A)

This device complies with ICES-003 Canada Rules Operation is subject to the following two conditions:
(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The End.