



TEST REPORT



Report No. : KES-EM241203

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KES Co., Ltd.

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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. : PNM-C32084RQZ

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 : Apr. 17, 2024

5. Test date : Apr. 25, 2024

6. Date of Issue : May. 28, 2024

7. Test Results : In Compliance

Tested by

Reviewed by

Dae Soo, Kim
EMC Test Engineer

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
May. 28, 2024	KES-EM241203	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Highest internal Frequency : 2.6 GHz

Video	
Imaging Device	1/1.8" CMOS x 4CH
Resolution	3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 20fps MJPEG: Max. 20fps@8MP Max. 5fps
NETD	None
Pixel Size	None
Min. Illumination	Color: 0.07Lux(F1.3, 1/30sec, 30IRE) BW: 0Lux(IR LED on)
Video Out	None
Video Transmission Distance	None
Lens	
Focal Length (Zoom Ratio)	4.38~9.33mm(2.13x) motorized varifocal
Max. Aperture Ratio	F1.3(Wide) ~F2.15(Tele)
Angular Field of View	H: 112.1°(Wide)~47.5°(Tele) V: 58.0°(Wide)~26.6°(Tele) D: 137.5°(Wide)~54.6°(Tele)
Min. Object Distance	1.3m(4.27ft)
Focus Control	Simple focus
Lens Type	P-Iris
Mount Type	None
Optional Lens	None
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	Remote adjustment (Max. 200cycles) 0°~360° / 30°~90° / 0°~90°
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, WDR, SDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNRV
Digital Image Stabilization	None
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	6ea, 4point Polygonal zones - Color: Gray/Black/White

Gain Control	Off / Low / Middle / High
White Balance	ATW / RWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / prefer shutter / Anti flicker(1/5~1/12,000sec)
Digital PTZ	None
Video Rotation	Flip, Mirror, Halfway view(90°/270°) - each CH separately
Analytics	Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification
Business Intelligence	None
Serial Interface	None
Alarm I/O	2 configurable I/O ports * Support Alarm via optional SPM-4210 I/O box
Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription, Tampering
Alarm Events	When alarm trigger occurred - File upload(image): e-mail/FTP - 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 Audio via optional SPM-4210 I/O box
Audio Out	* Support Audio via optional SPM-4210 I/O box
IR Viewable Length	WiseIR 30m(98.43ft)
IR Illuminator (Optional)	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(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/High, MJPEG
Audio Compression	None
Smart Codec	Manual(Sea area), WiseStream II
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR

Streaming	Unicast(10 users) / Multicast Multiple streaming(Up to 3 profiles per CH)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP/UDP, RTP(TCP), RTCP, RTPS, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT
Security	OS / Firmware Protect: Secure boot, Signed firmware, Firmware encryption User authentication: Digest Authentication, Prevent brute-force attack Network authentication: 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) Secure Communication: HTTPS, WSS(Websocket secure) Access Control: IP address filtering Data Protect: Authentication information encryption, ZIP compression encryption Audit: User Access/System/Event log Device ID: Device Certificate(Hanwha Vision Root CA, pre-installed) Secure Storage: TPM 2.0 (TPM 140-2 level 2)
SIP support (VoIP, Peer-to-peer, SIP/PBX integration)	None
Application Programming Interface	ONVIF Profile S/T/M SUNAPI(HTTP API) Wisenet open platform
General	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian
Web Viewer	None
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2)
Memory	8GB RAM, 64GB eMMC
Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+55°C(-40°F~+131°F) / 0~95% RH(non-condensing) * Start up should be done at above -20°C Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Certification	IP66, NEMA 4X, IK10
Input Voltage	HPoE(IEEE802.3bt type4, Class8)
Power Consumption	HPoE: Max 71W, typical 77W
Mechanical	
Color / Material	White / Aluminum + PC Hard-coated dome bubble
RAL Code	RAL9003
Product Dimensions / Weight	ø315x180mm(m12.40x7.09") / 6100g (13.45lb)
Compatible Conduit hole / Gangbox	19.1mm(3/4")M25) single, double, 4" octagon, 4" square
Hanging Mount (Dome)	SBP-317HMWP
Skin Cover (Dome)	None
Weather Cap (Dome)	None
Power Module	None
Backbox	None

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 IEC/EN 63000
Environment	IEC/EN 60529 IP66, IEC/EN 62262 IK10 NEMA 250 type 4X
Video	None
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 51.7m(169.64ft) / Tele: 174.5m(572.64ft)
Observe (63PPM/ 19PPF)	Wide: 20.7m(67.85ft) / Tele: 69.8m(229.06ft)
Recognize (125PPM/ 38PPF)	Wide: 10.3m(33.93ft) / Tele: 34.9m(114.53ft)
Identify (250PPM/ 76PPF)	Wide: 5.2m(16.96ft) / Tele: 17.5m(57.26ft)



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	PNM-C32084RQZ	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 System Configuration

Description	Model Number	Serial Number	Manufacturer	Remarks
-	-	-	-	-

1.6 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Injector	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co., Ltd	-
Laptop	LG15U56	605NZ8J002174	LG	-
Laptop Adapter	ADS-65AI-19-3	EAY65689605	SHENZHEN HONOR ELECTRONIC CO.,LTD.	-
LED Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-
Micro SD Card 1	-	-	SanDisk	-
Micro SD Card 2	-	-	Transcend	-



1.7 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	Micro SD Slot 1	Micro SD Card 1	Micro SD Slot	-	-
	Micro SD Slot 2	Micro SD Card 2	Micro SD Slot	-	-
	RJ-45 (PoE)	PoE Injector	RJ-45 (PoE)	3.1	U
	ALARM OUT	LED Alarm	Alarm IN	3.1	U
	ALARM IN	Button Alarm	Alarm OUT	3.1	U
PoE Injector	RJ-45 (LAN)	Laptop	RJ-45 (LAN)	2.5	U
Laptop	DC jack	Laptop Adapter	DC jack	1.5	U

* Unshielded = U, Shielded = S

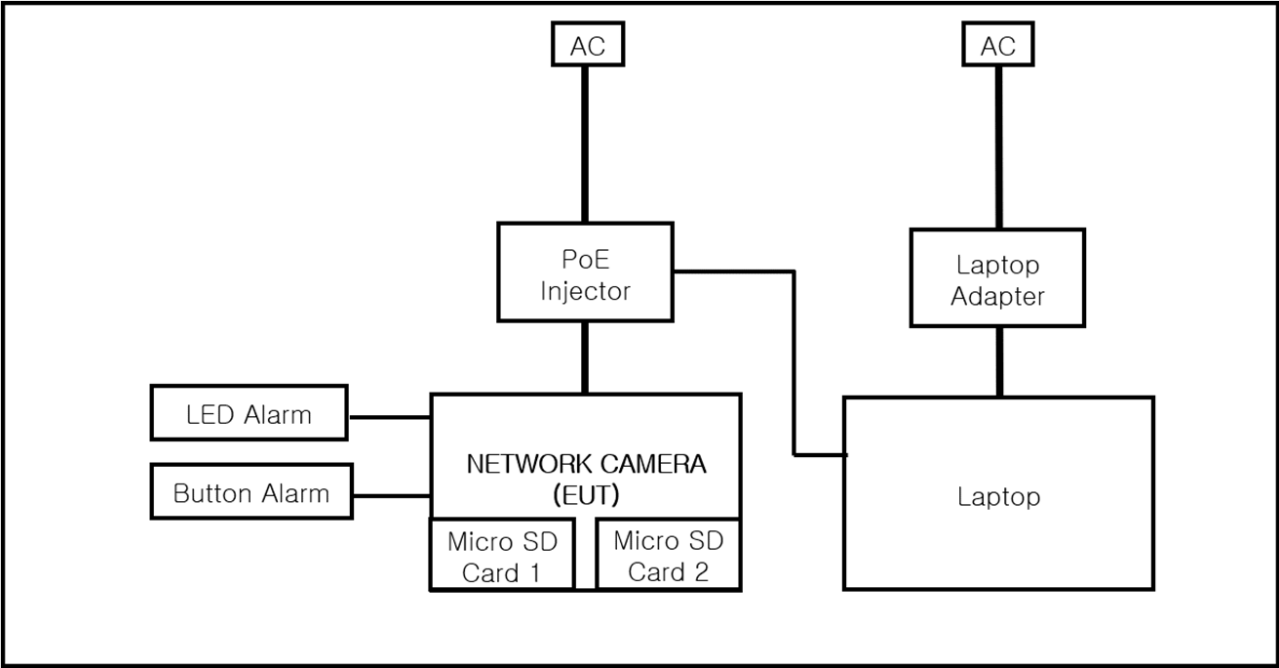
1.8 EUT Operating Mode(s)

Test mode	Normal operating	Test Voltages
Operating	Monitoring EUT Using Web Viewer, Ping Test	AC 120 V, 60 Hz

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd.



1.9 Configuration



**1.10 Remarks when standards applied**

N/A

1.11 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.

1.12 Test Facility

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

1.13 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 0004



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

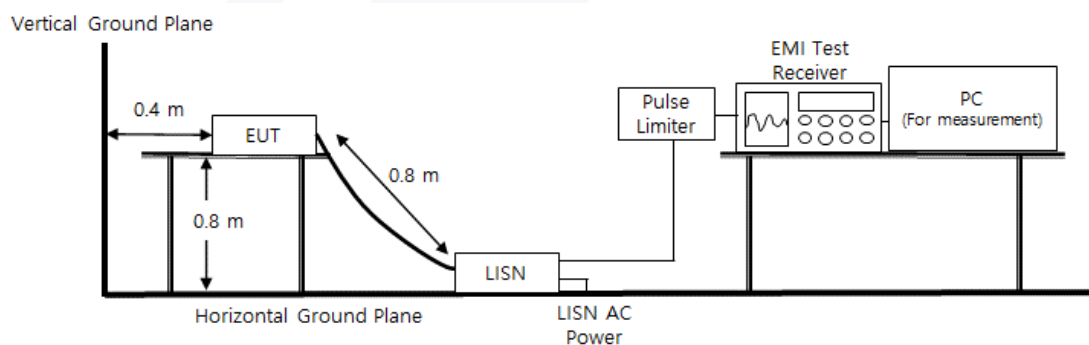
Apr. 25, 2024

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, 08, 2024
☒	LISN	ENV216	R & S	101787	11, 08, 2024
☒	LISN	ENV216	R & S	101137	01, 10, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 08, 2024

Diagram of test setup



Test Conditions

Temperature: (23,8 ± 0,0) °C
Relative Humidity: (45,2 ± 0,0) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

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 GHz)

Test Date

Apr. 25, 2024

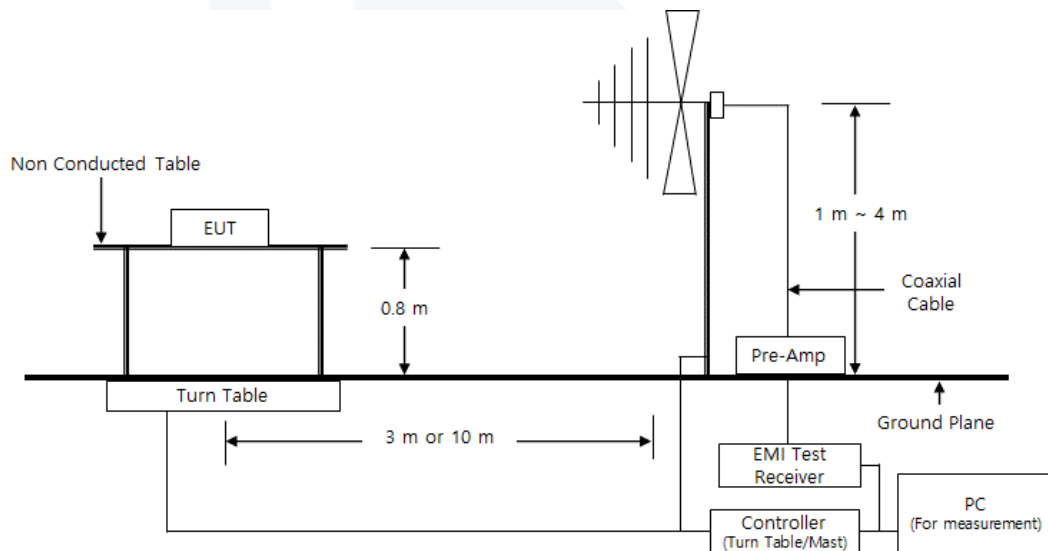
Test Location

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, 08, 2024
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 17, 2024
☒	ATTENUATOR	8491A	HP	32173	02, 13, 2025

Diagram of test setup





Test Conditions

Temperature: $(22,2 \pm 0,1) ^\circ\text{C}$
Relative Humidity: $(46,6 \pm 0,1) \% \text{ R.H.}$

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

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 GHz)

Test Date

Apr. 25, 2024

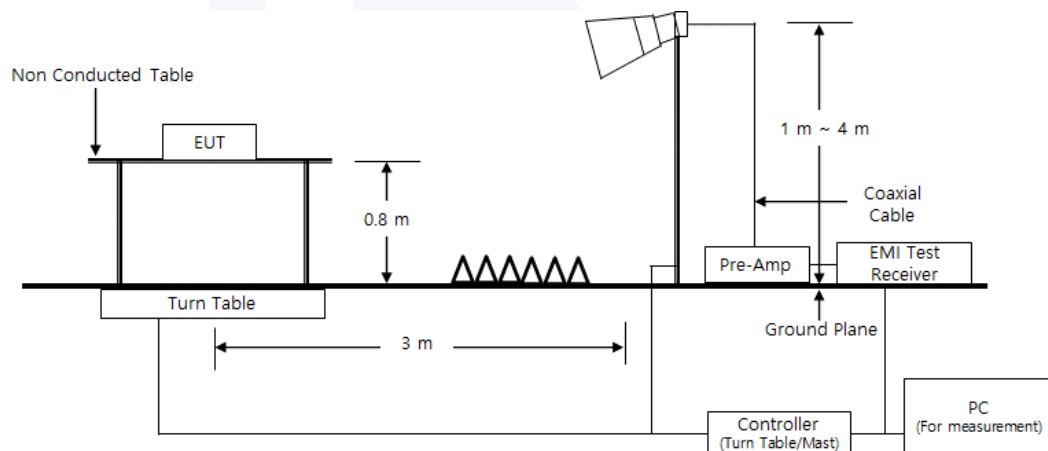
Test Location

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, 03, 2024
☒	PREAMPLIFIER	8449B	HP	3008A00538	05, 31, 2024
☒	ATTENUATOR	8491B	HP	23094	02, 13, 2025

Diagram of test setup





Test Conditions

Temperature: (23,3 ± 0,1) °C
Relative Humidity: (45,7 ± 0,0) % R.H.

Frequency Range of Measurement

1 GHz to 5 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.





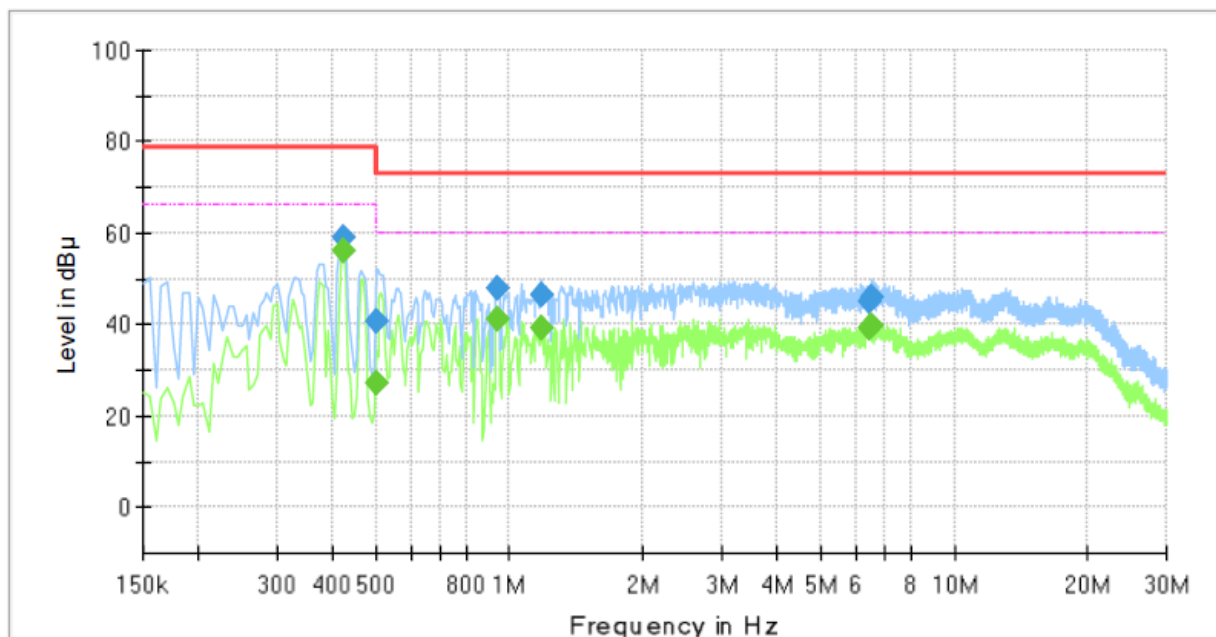
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description: Conducted Emission
Model No.: PNM-C32084RQZ
Phase: L
Mode:
Operator Name: KES



Final Result

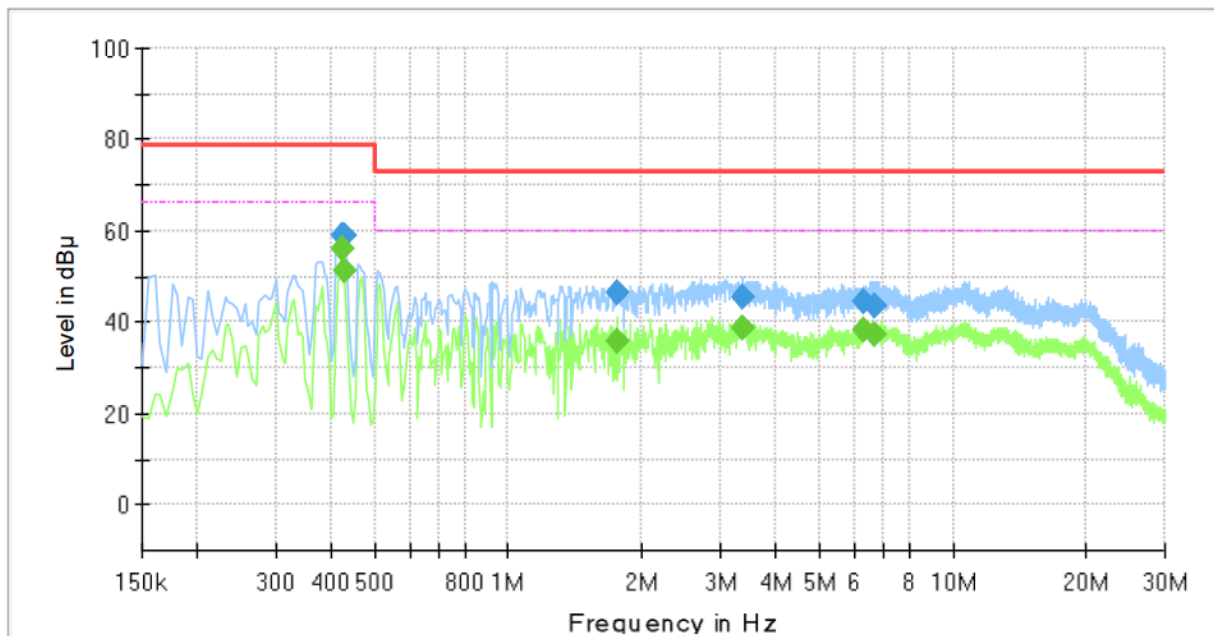
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.425000	---	55.87	66.00	10.13	1000.0	9.000	L1	19.4
0.425000	59.21	---	79.00	19.79	1000.0	9.000	L1	19.4
0.500000	---	27.00	60.00	33.00	1000.0	9.000	L1	19.4
0.500000	40.56	---	79.00	38.44	1000.0	9.000	L1	19.4
0.935000	---	41.33	60.00	18.67	1000.0	9.000	L1	19.4
0.935000	47.95	---	73.00	25.05	1000.0	9.000	L1	19.4
1.185000	---	39.10	60.00	20.90	1000.0	9.000	L1	19.5
1.185000	46.29	---	73.00	26.71	1000.0	9.000	L1	19.5
6.440000	---	39.26	60.00	20.74	1000.0	9.000	L1	19.8
6.440000	45.19	---	73.00	27.81	1000.0	9.000	L1	19.8
6.510000	---	39.59	60.00	20.41	1000.0	9.000	L1	19.8
6.510000	45.86	---	73.00	27.14	1000.0	9.000	L1	19.8



NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Model No.: PNM-C32084RQZ
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)
0.425000	---	56.09	66.00	9.91	1000.0	9.000	N	19.4
0.425000	59.12	---	79.00	19.88	1000.0	9.000	N	19.4
0.430000	---	51.27	66.00	14.73	1000.0	9.000	N	19.4
0.430000	58.81	---	79.00	20.19	1000.0	9.000	N	19.4
1.760000	---	35.62	60.00	24.38	1000.0	9.000	N	19.5
1.760000	46.40	---	73.00	26.60	1000.0	9.000	N	19.5
3.370000	---	38.66	60.00	21.34	1000.0	9.000	N	19.6
3.370000	45.30	---	73.00	27.70	1000.0	9.000	N	19.6
6.305000	---	38.01	60.00	21.99	1000.0	9.000	N	19.8
6.305000	44.72	---	73.00	28.28	1000.0	9.000	N	19.8
6.665000	---	37.18	60.00	22.82	1000.0	9.000	N	19.8
6.665000	43.35	---	73.00	29.65	1000.0	9.000	N	19.8

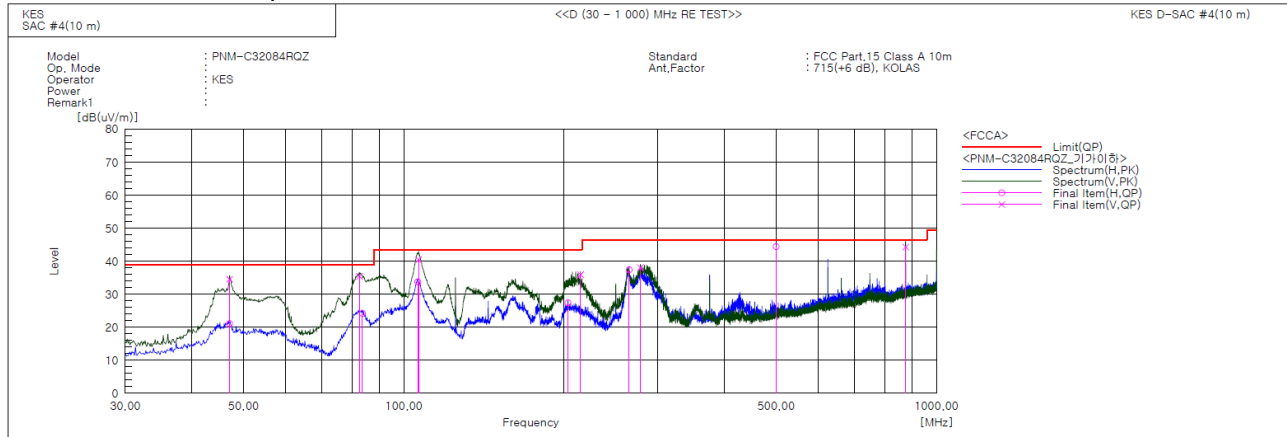
◆ Calculation

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))

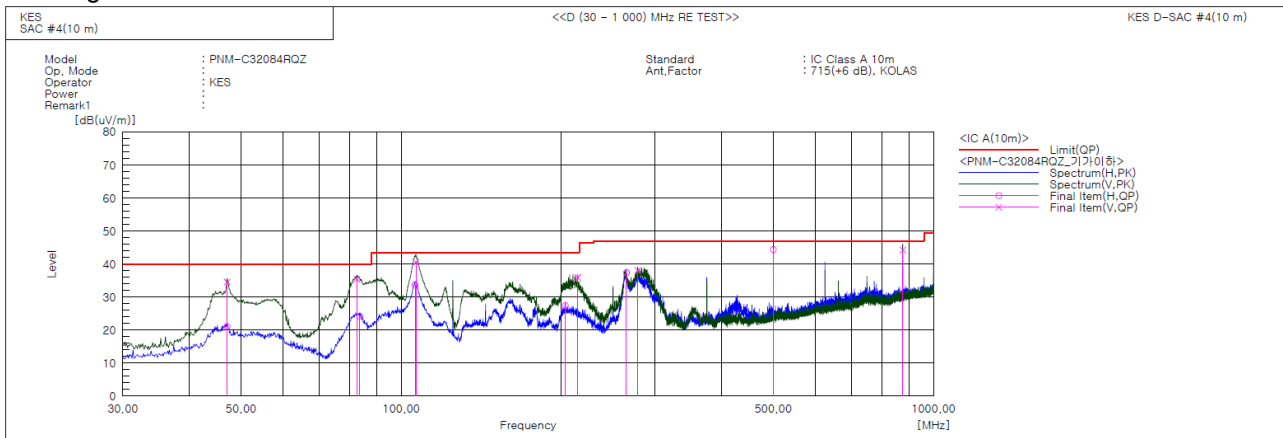
**Radiated Electric Field Emissions(Below 1 GHz)****- 47 CFR Part 15, Subpart B****Final Result**

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	47.096	V	55.8	-21.3	34.5	39.0	4.5	109.0	256.0	
2	47.096	H	42.4	-21.3	21.1	39.0	17.9	356.0	293.0	
3	82.501	V	62.7	-27.3	35.4	39.0	3.6	164.0	270.0	
4	83.593	H	51.1	-26.9	24.2	39.0	14.8	391.0	282.0	
5	106.145	H	56.3	-22.6	33.7	43.5	9.8	314.0	87.0	
6	106.509	V	63.1	-22.6	40.5	43.5	3.0	100.0	94.0	
7	203.266	H	48.0	-20.6	27.4	43.5	16.1	400.0	144.0	
8	214.543	V	55.6	-19.7	35.9	43.5	7.6	106.0	177.0	
9	264.861	H	55.9	-18.5	37.4	46.5	9.1	293.0	71.0	
10	277.956	V	56.3	-18.2	38.1	46.5	8.4	166.0	177.0	
11	499.965	H	55.5	-11.1	44.4	46.5	2.1	254.0	227.0	
12	875.113	V	47.7	-3.4	44.3	46.5	2.2	207.0	233.0	



Report No. : KES-EM241203

- IC Regulation ICES-003 Issue 7



Final Result

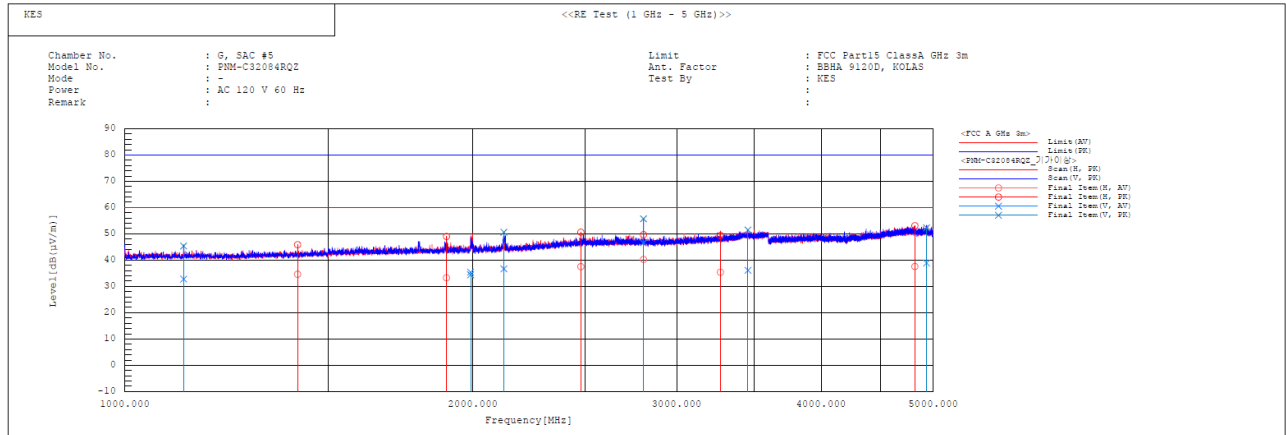
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	47.096	V	55.8	-21.3	34.5	40.0	5.5	109.0	256.0	
2	47.096	H	42.4	-21.3	21.1	40.0	18.9	356.0	293.0	
3	82.501	V	62.7	-27.3	35.4	40.0	4.6	164.0	270.0	
4	83.593	H	51.1	-26.9	24.2	40.0	15.8	391.0	282.0	
5	106.145	H	56.3	-22.6	33.7	43.5	9.8	314.0	87.0	
6	106.509	V	63.1	-22.6	40.5	43.5	3.0	100.0	94.0	
7	203.266	H	48.0	-20.6	27.4	43.5	16.1	400.0	144.0	
8	214.543	V	55.6	-19.7	35.9	43.5	7.6	106.0	177.0	
9	264.861	H	55.9	-18.5	37.4	47.0	9.6	293.0	71.0	
10	277.956	V	56.3	-18.2	38.1	47.0	8.9	166.0	177.0	
11	499.965	H	55.5	-11.1	44.4	47.0	2.6	254.0	227.0	
12	875.113	V	47.7	-3.4	44.3	47.0	2.7	207.0	233.0	

◆ Calculation

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

Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

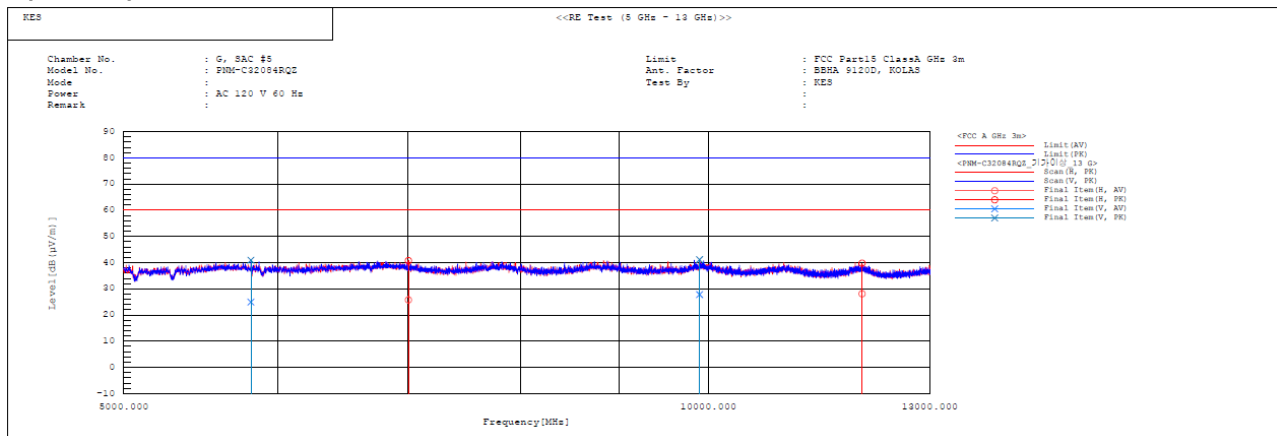
Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss – Preamp Factor), Margin: Margin value

**Radiated Electric Field Emissions(Above 1 GHz)****- (1 ~ 5) GHz****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	1124.400	V	33.7	46.3	-0.9	32.8	45.4	60.0	80.0	27.2	34.6	158.0	359.6	
2	1410.400	H	34.0	45.3	0.6	34.6	45.9	60.0	80.0	25.4	34.1	106.0	125.1	
3	1897.200	H	30.5	46.2	2.8	33.3	49.0	60.0	80.0	26.7	31.0	240.0	256.6	
4	1990.400	V	32.2	31.2	3.2	35.4	34.4	60.0	80.0	24.6	45.6	148.0	12.1	
5	2126.800	V	33.0	46.9	3.7	36.7	50.6	60.0	80.0	23.3	29.4	132.0	163.1	
6	2479.200	H	32.4	45.5	5.1	37.5	50.6	60.0	80.0	22.5	29.4	110.0	217.6	
7	2807.600	V	40.5	49.6	6.1	46.6	55.7	60.0	80.0	13.4	24.3	104.0	294.2	
8	2808.000	H	34.2	43.6	6.1	40.3	49.7	60.0	80.0	19.7	30.3	204.0	100.2	
9	3273.200	H	28.4	42.4	7.0	35.4	49.4	60.0	80.0	24.6	30.6	358.0	303.2	
10	3456.800	V	28.9	44.3	7.2	36.1	51.5	60.0	80.0	23.9	28.5	113.0	138.3	
11	4819.200	H	25.7	41.2	11.9	37.6	53.1	60.0	80.0	22.4	26.9	122.0	87.1	
12	4932.400	V	26.5	39.9	12.4	38.9	52.3	60.0	80.0	21.1	27.7	380.0	0.0	



- (5 ~ 13) GHz



- Peak

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5 813.800	41.500	V	1.000	32.960	8.580	33.700	49.340	80.000	30.660
7 007.200	40.800	H	1.000	35.130	9.630	34.570	50.990	80.000	29.010
9 894.500	41.100	V	1.000	39.470	12.070	33.990	58.650	80.000	21.350
11 996.600	39.800	H	1.000	38.310	12.430	32.360	58.180	80.000	21.820

- CISPR AV

Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5 813.800	27.000	V	1.000	33.260	9.160	33.700	35.720	60.000	24.280
7 007.200	25.800	H	1.000	35.430	10.020	34.570	36.680	60.000	23.320
9 894.500	27.800	V	1.000	39.730	10.960	33.990	44.500	60.000	15.500
11 996.600	28.110	H	1.000	38.710	11.690	32.360	46.150	60.000	13.850

◆ Calculation

Result(PK/CAV) [dB(μV/m)] = (Reading(PK/CAV)[dB(μV)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB(μV/m)] - Result(PK/CAV) [dB(μV/m)]

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

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



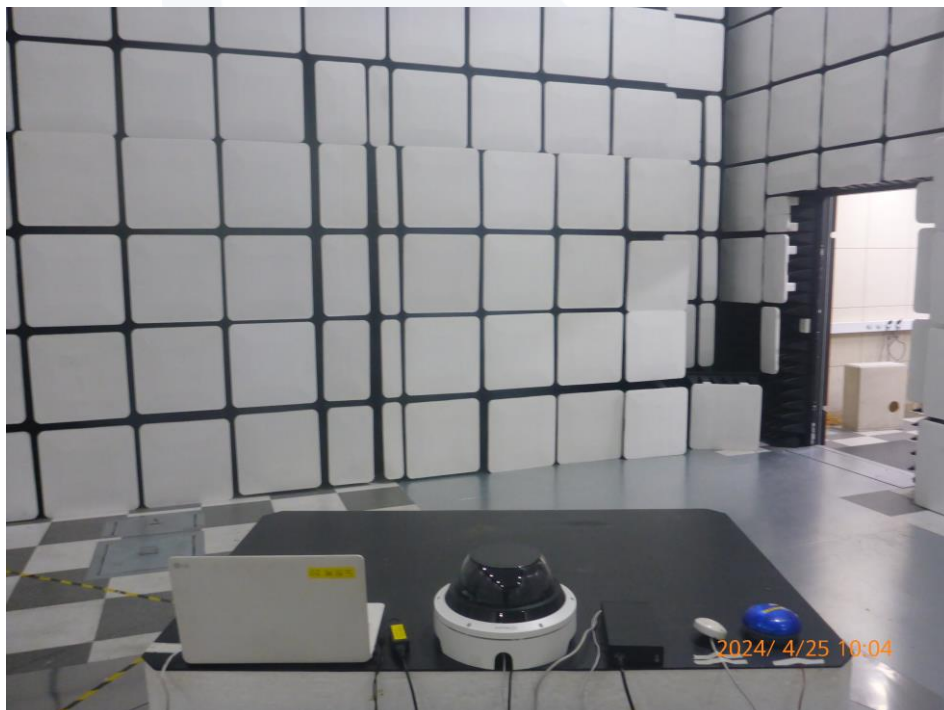
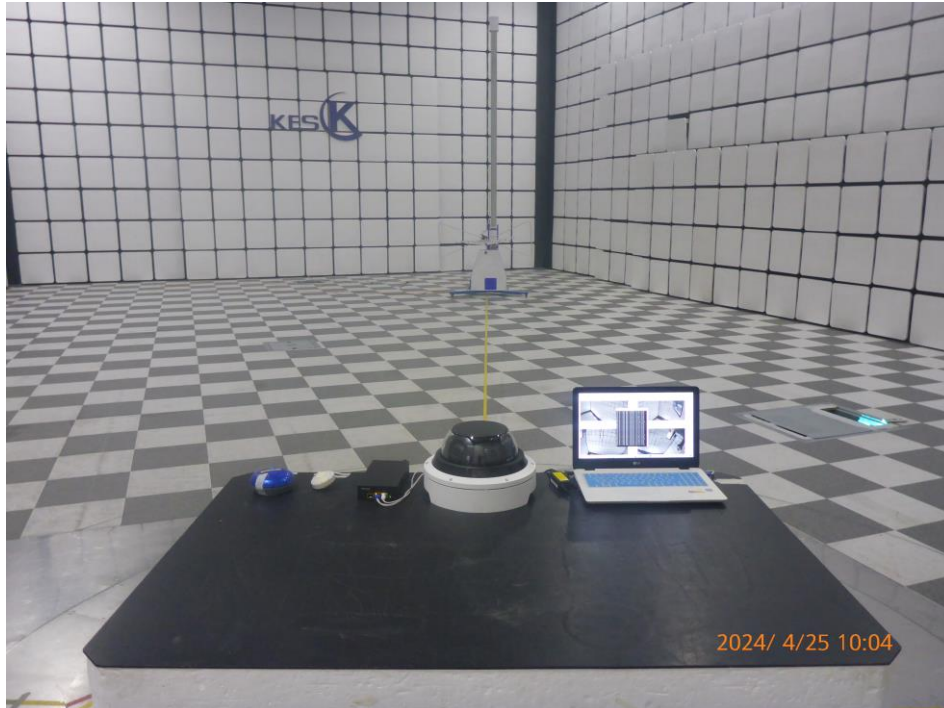
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



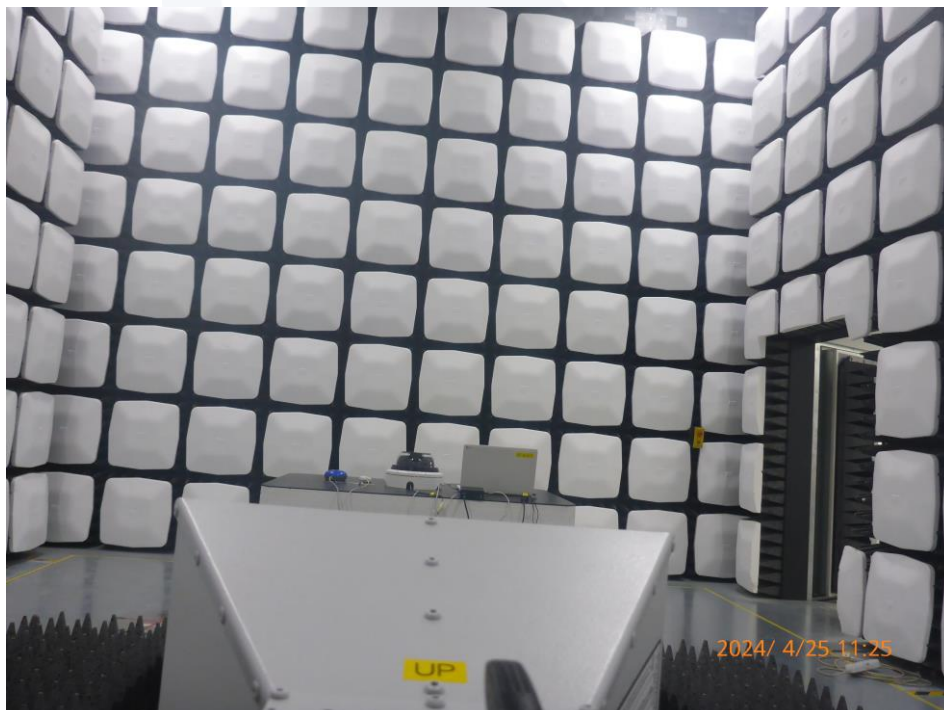
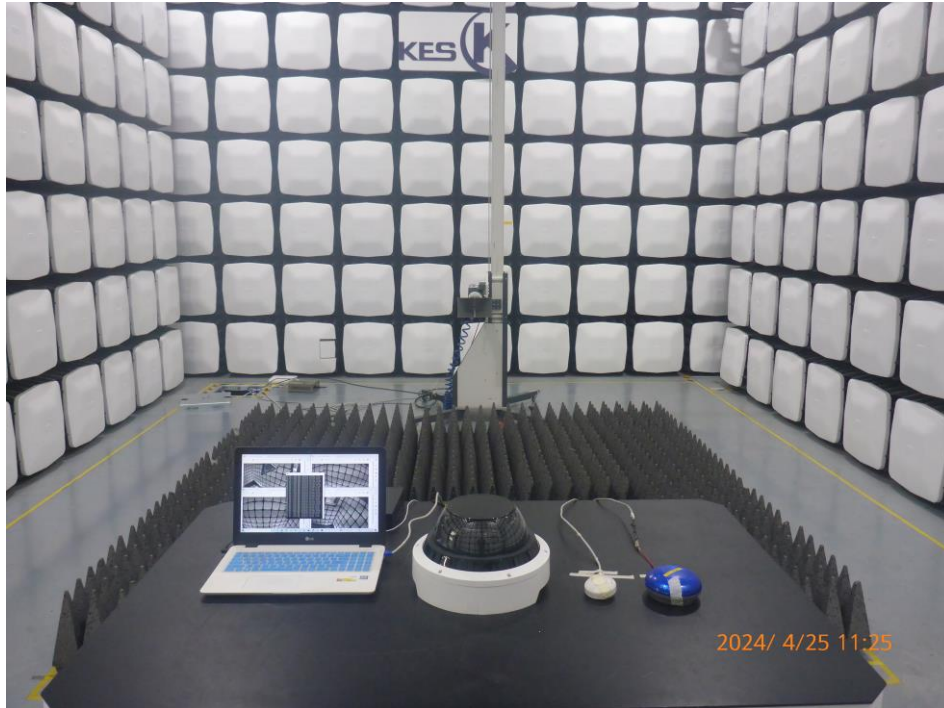


Radiated Electric Field Emissions(Below 1 GHz)





Radiated Electric Field Emissions(Above 1 GHz)



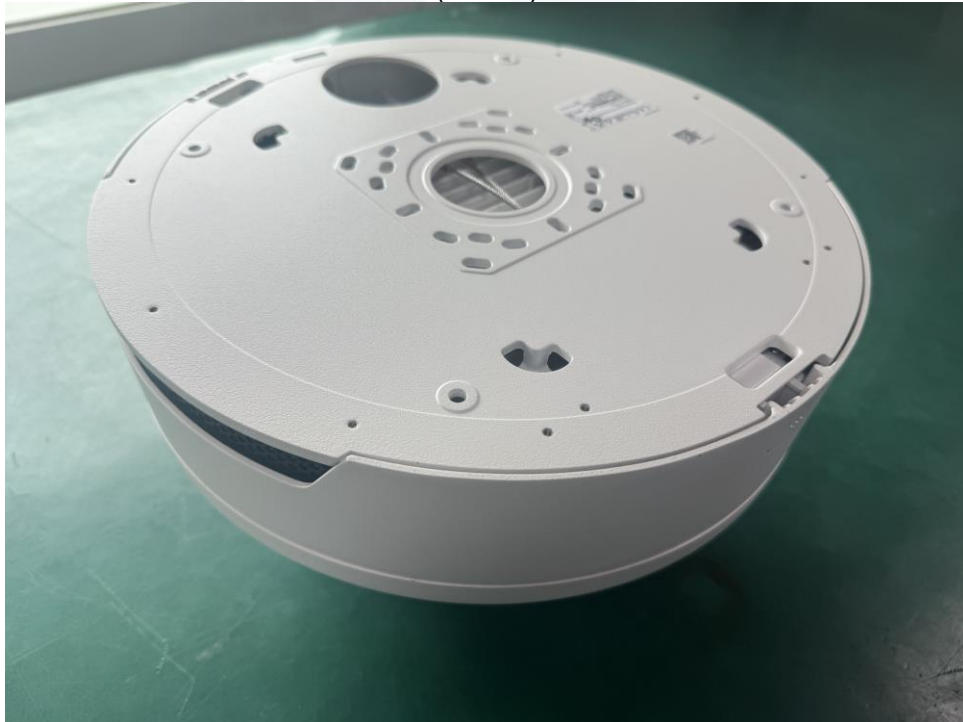


EUT External Photographs

(Top)



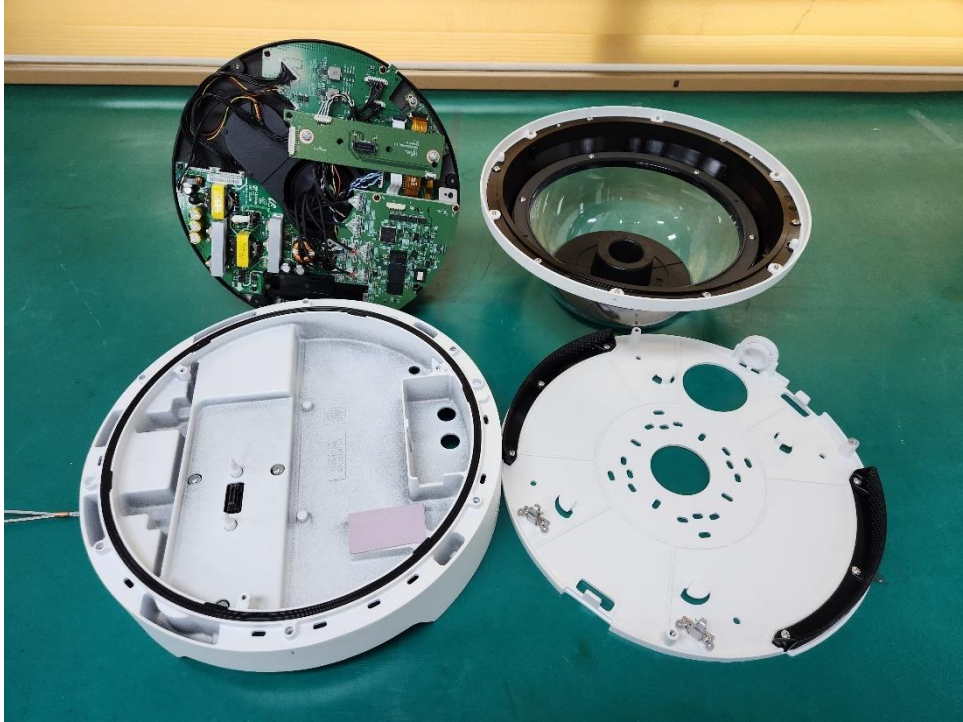
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EUT Internal Photographs

(Internal View)





EUT Internal View – Board 1

(Top)



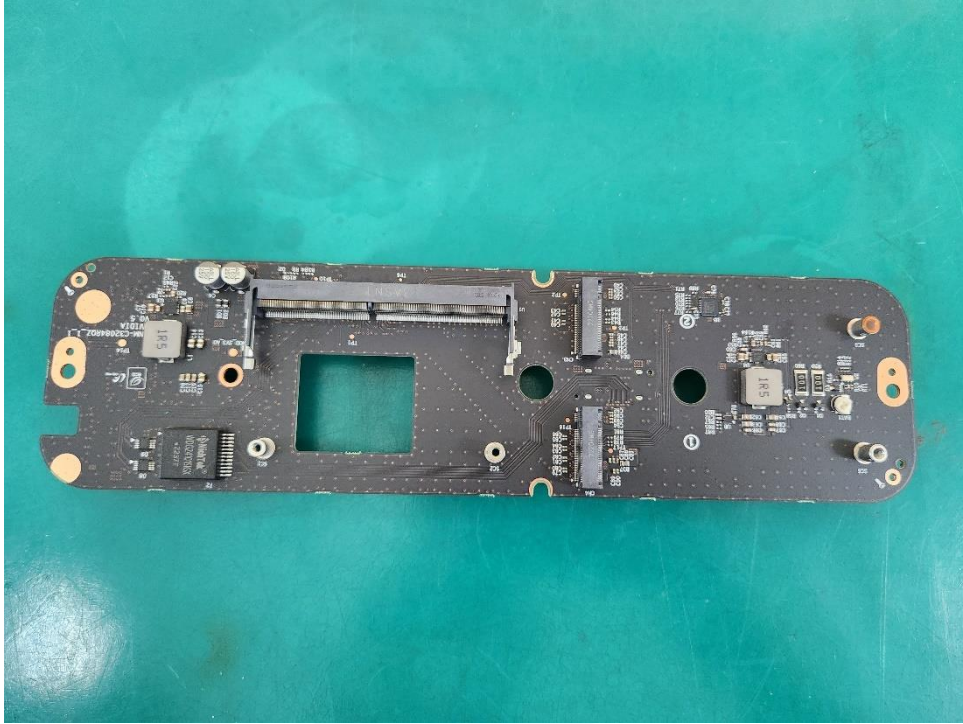
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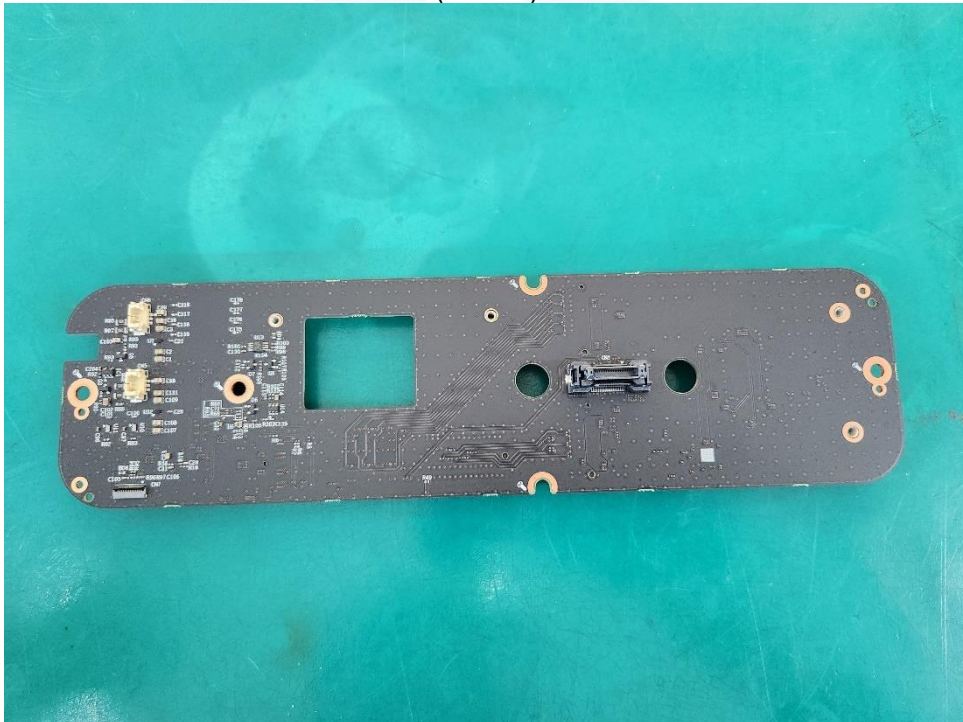


EUT Internal View – Board 2

(Top)



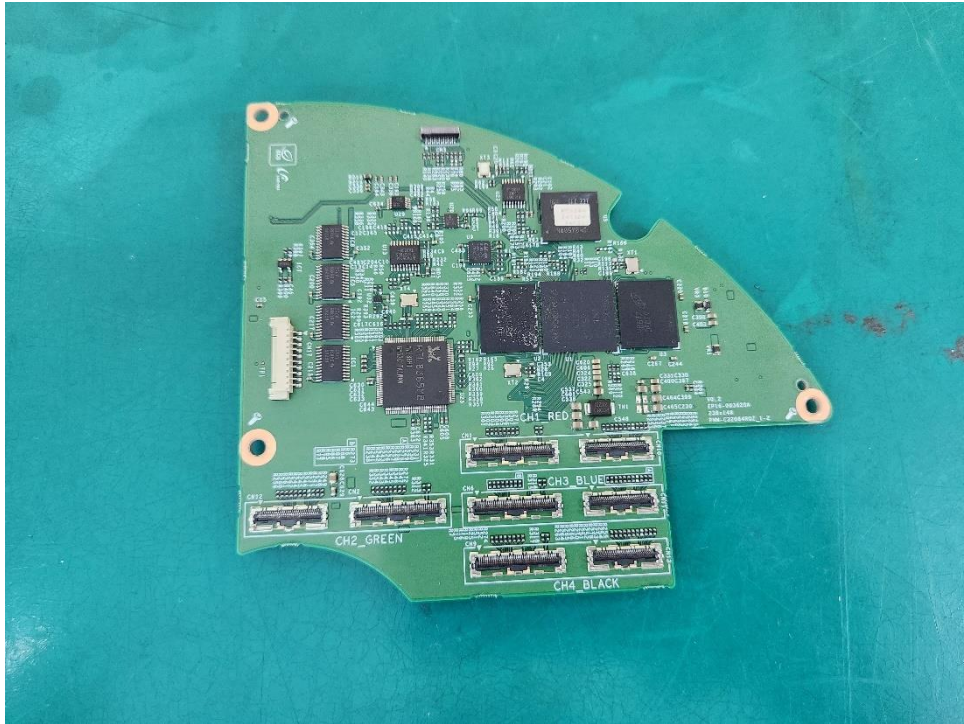
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EUT Internal View – Board 3

(Top)



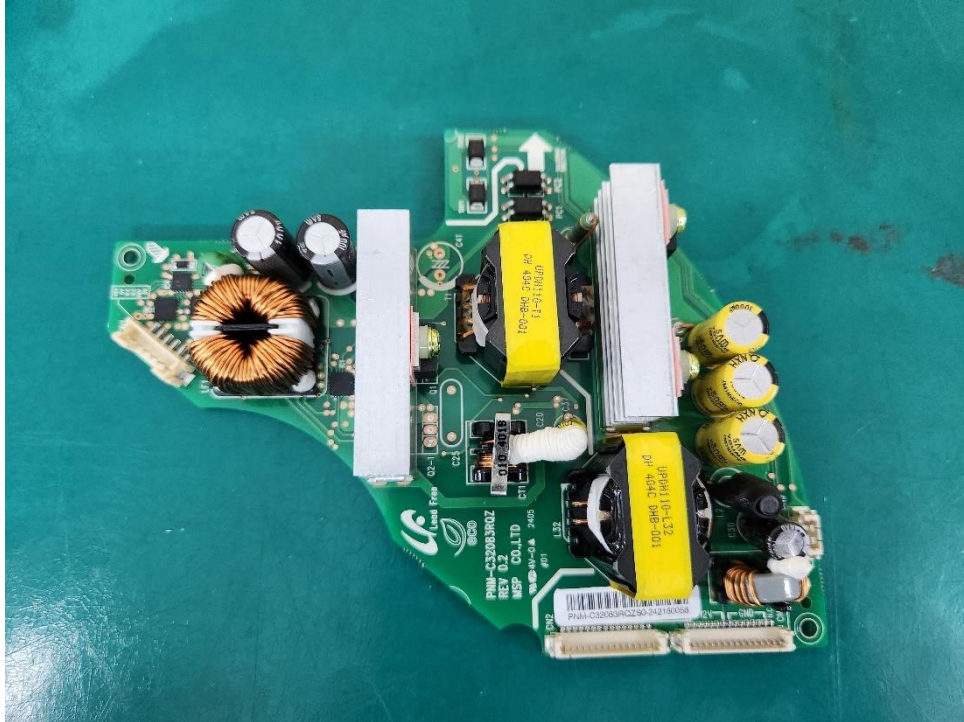
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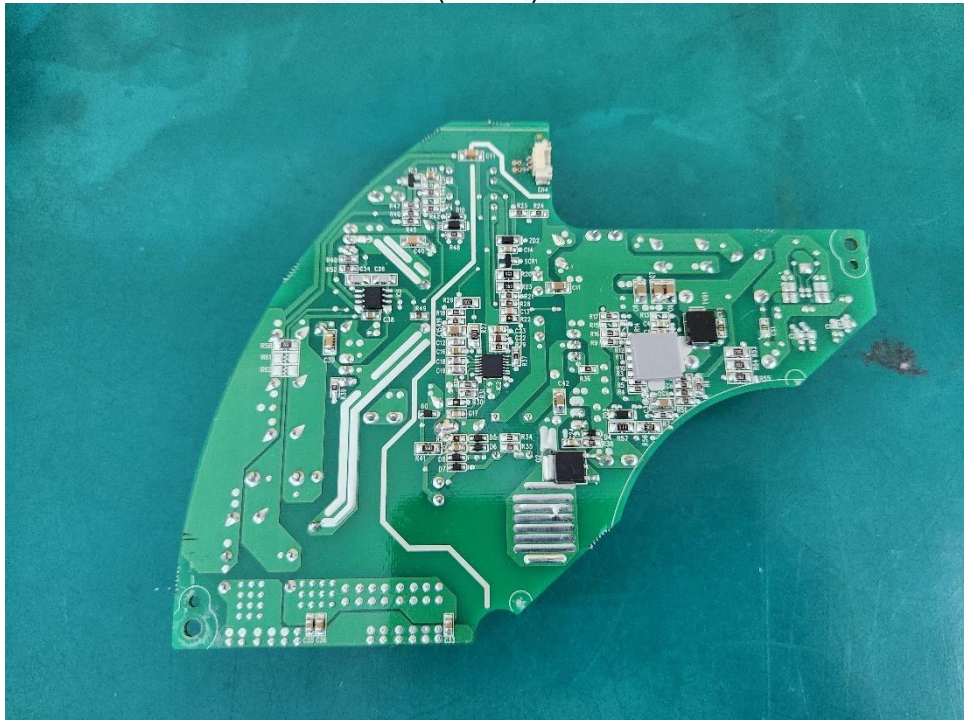


EUT Internal View – Board 4

(Top)



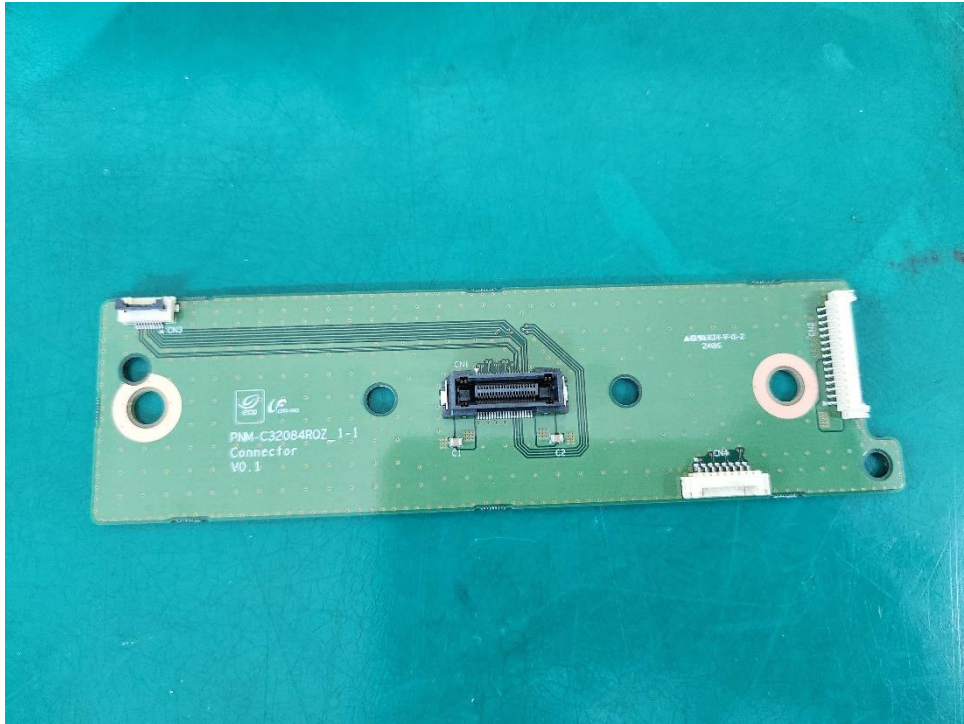
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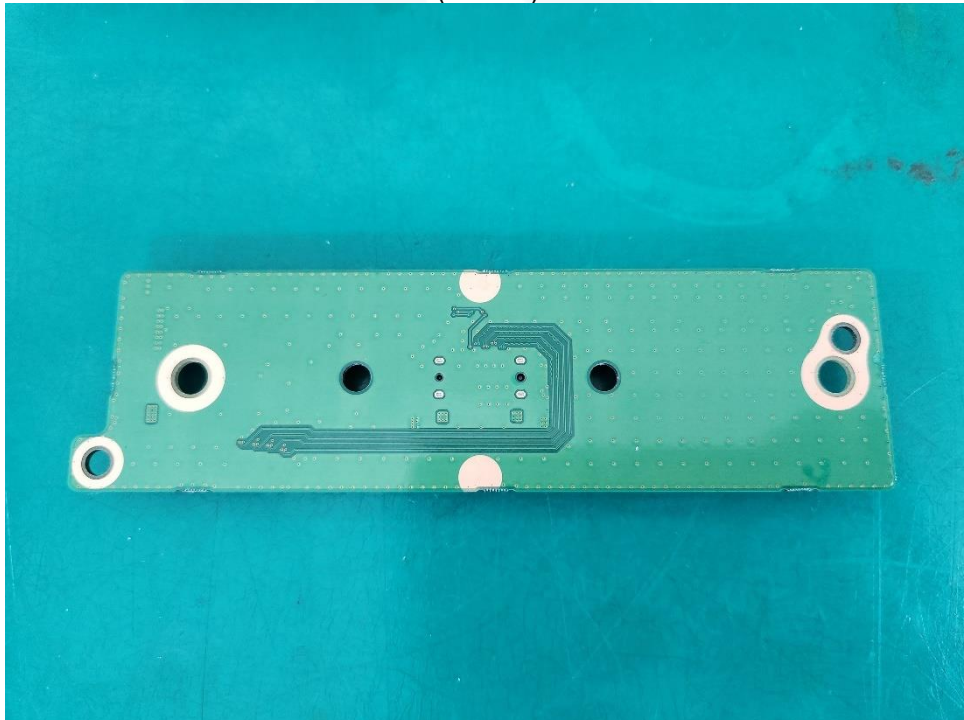


EUT Internal View – Board 5

(Top)



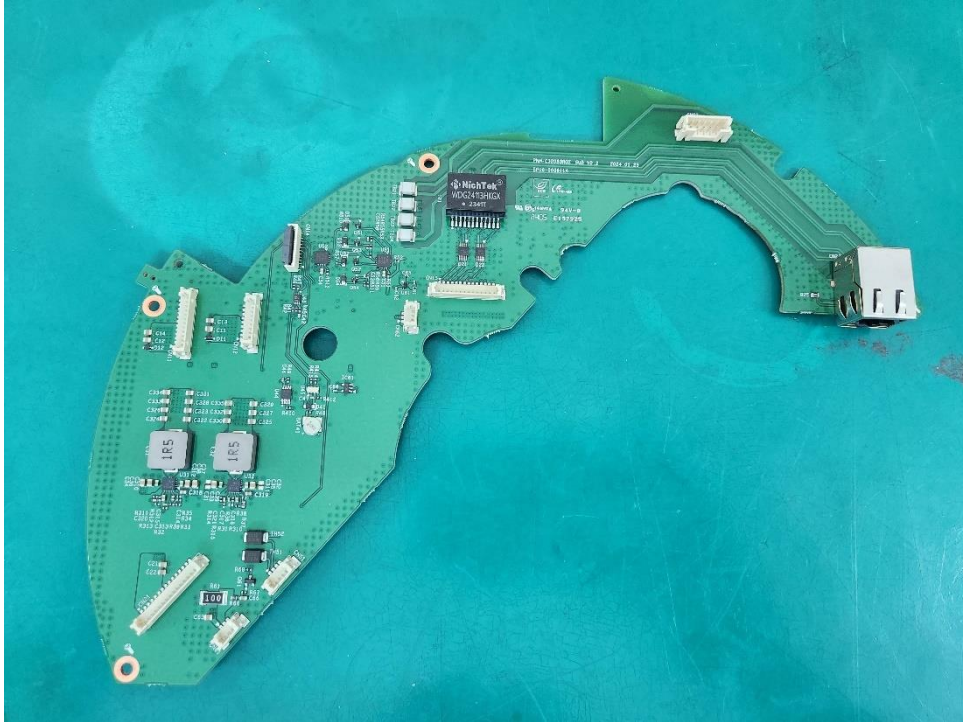
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EUT Internal View – Board 6

(Top)



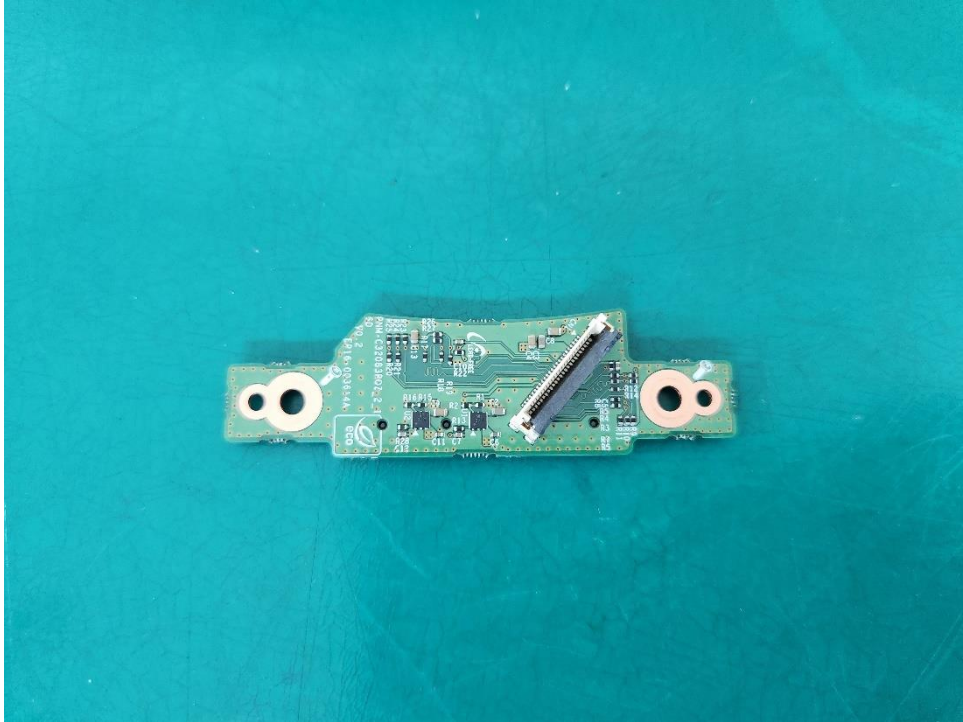
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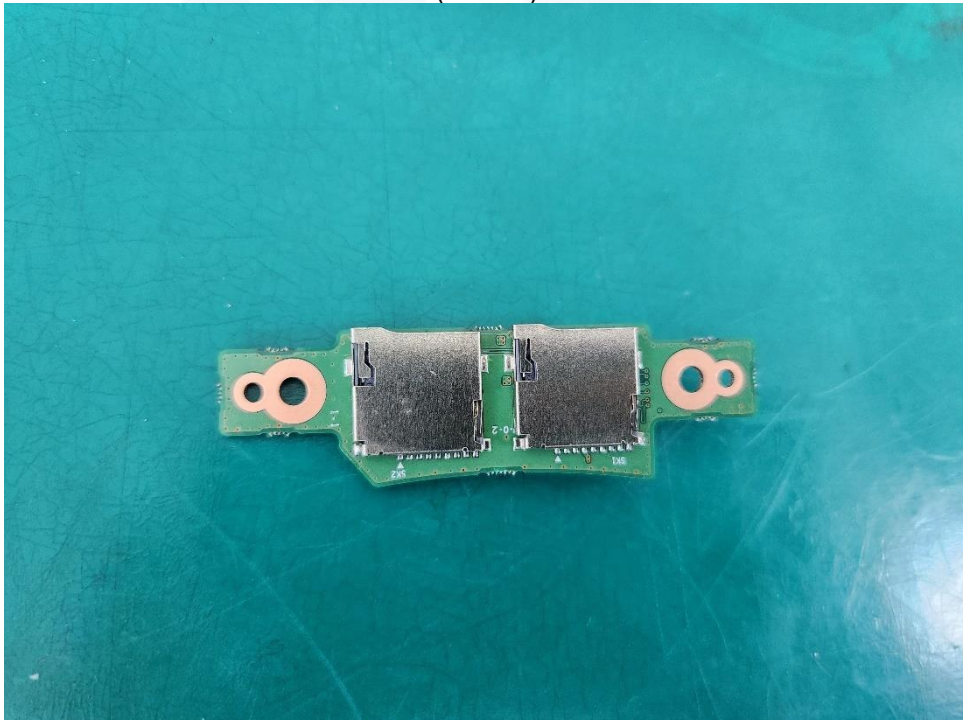


EUT Internal View – Board 7

(Top)



(Bottom)





EUT Internal View – Board 8

(Top)



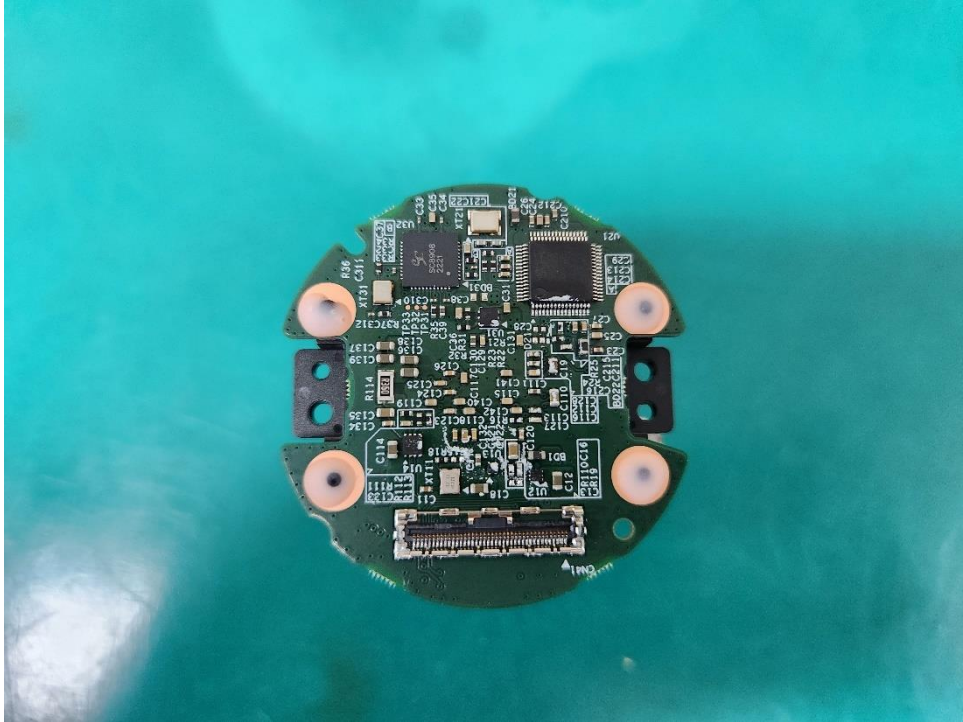
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EUT Internal View – Board 9

(Top)



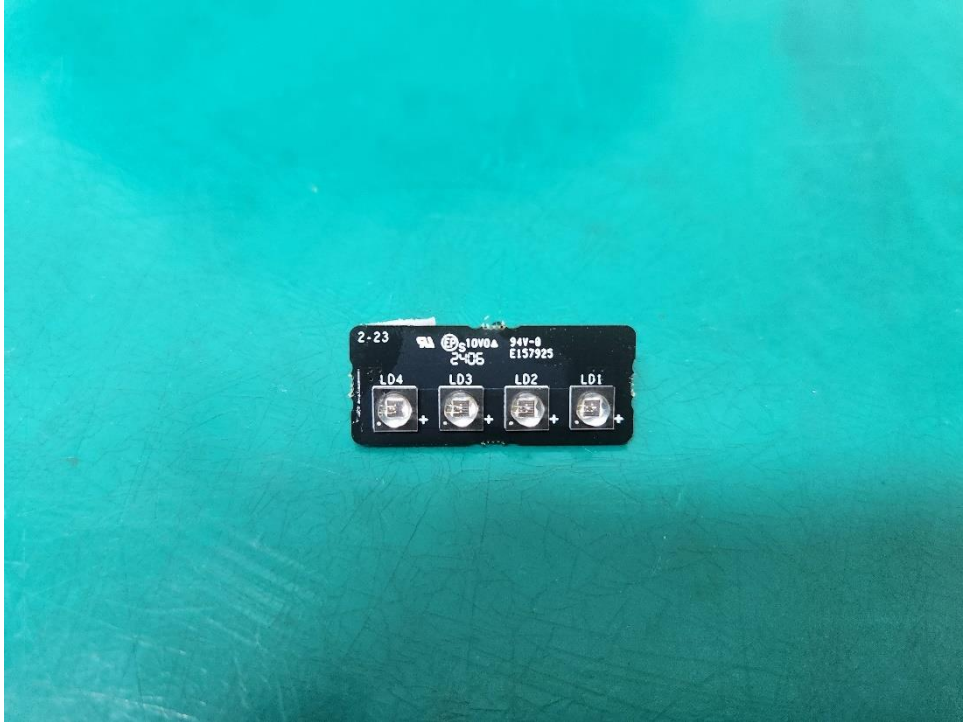
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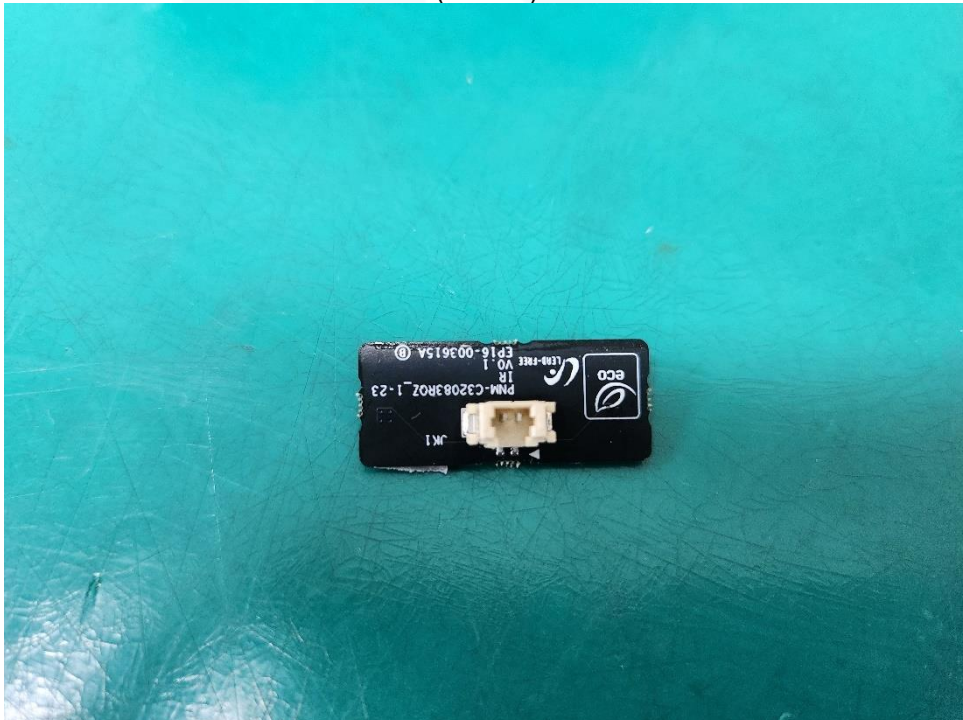


EUT Internal View – Board 10

(Top)



(Bottom)



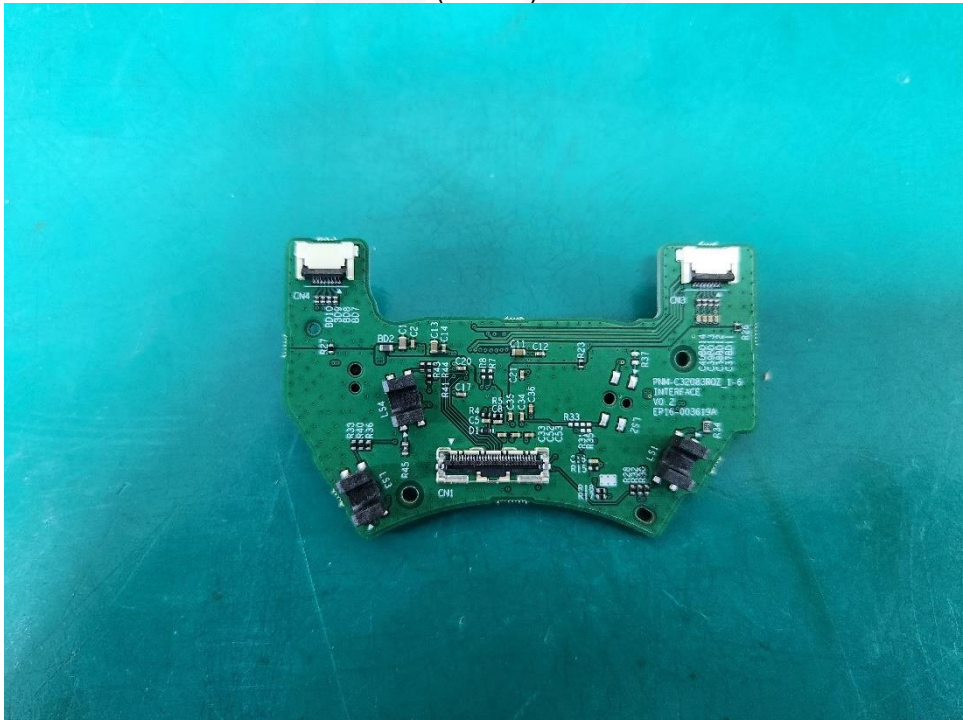


EUT Internal View – Board 11

(Top)



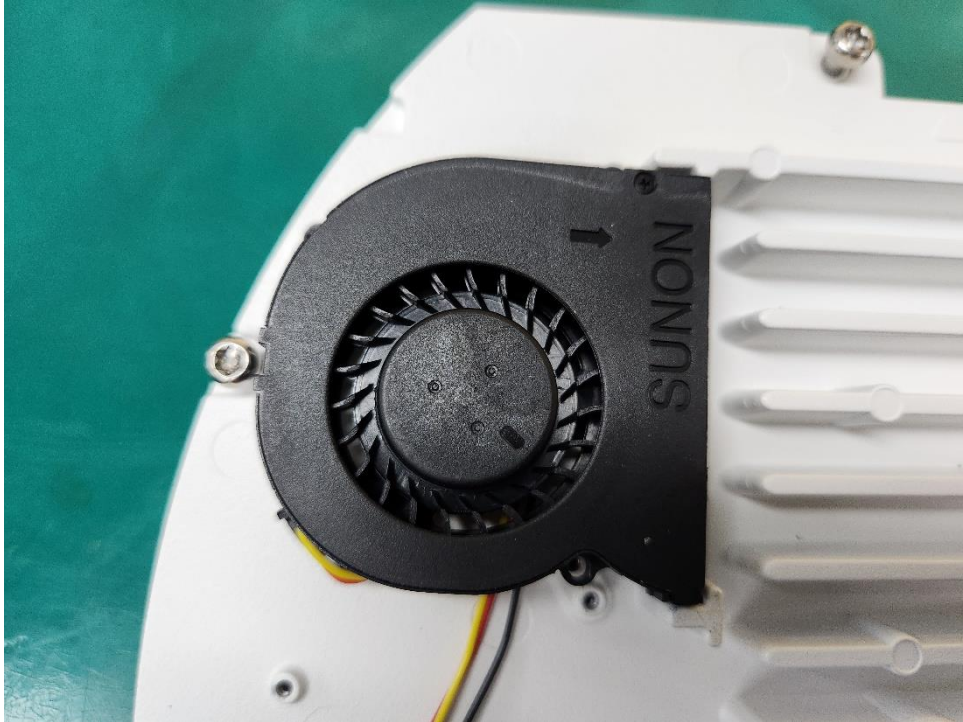
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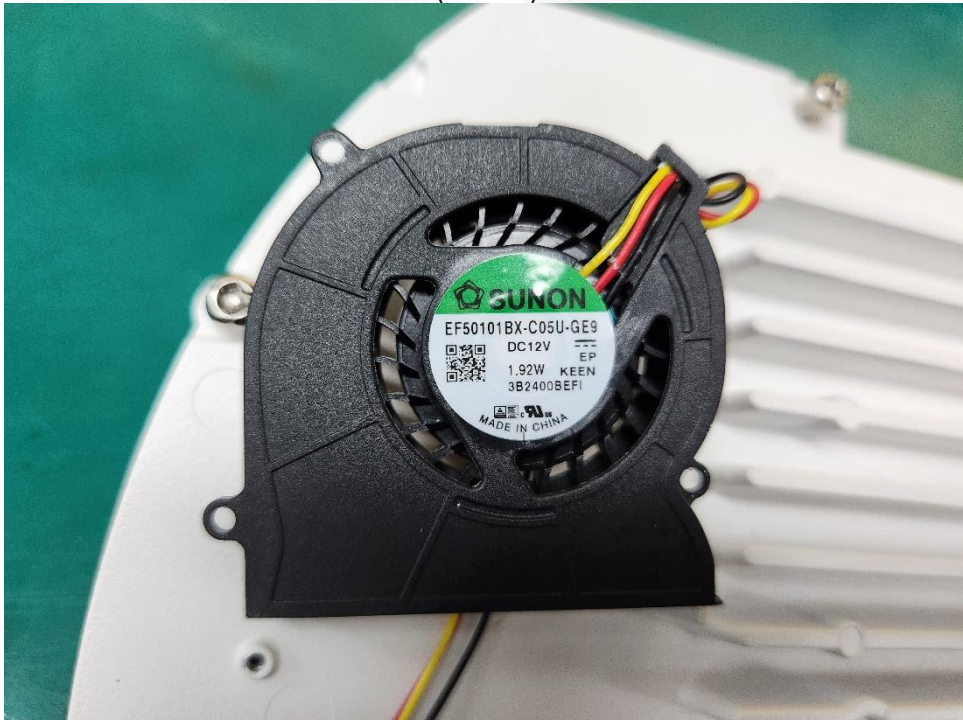


EUT Internal View – FAN 1

(Top)



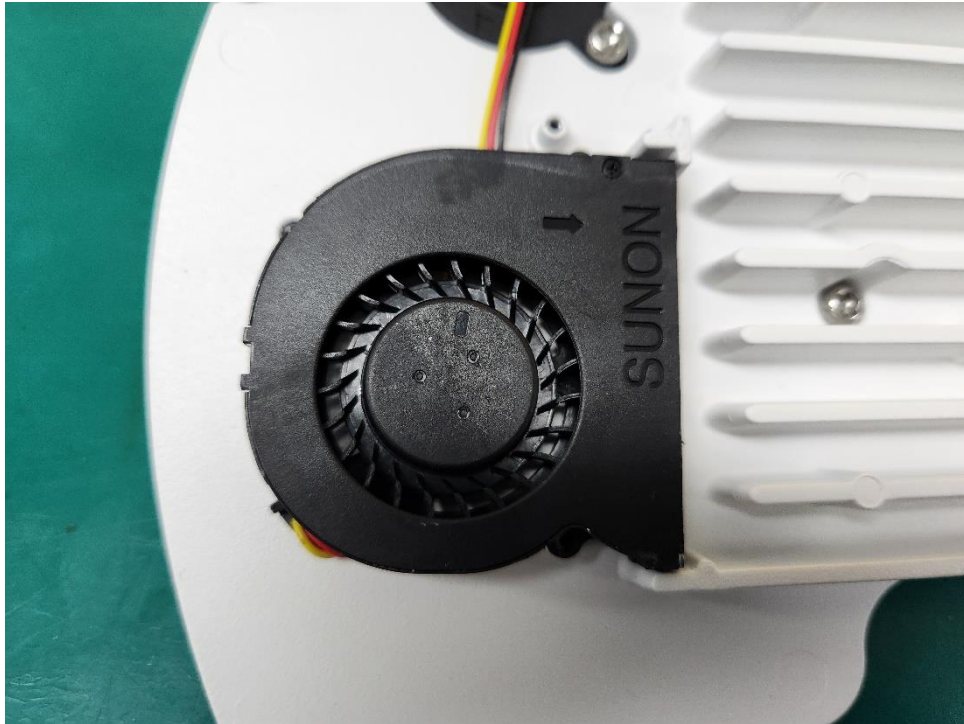
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EUT Internal View – FAN 2

(Top)



(Bottom)



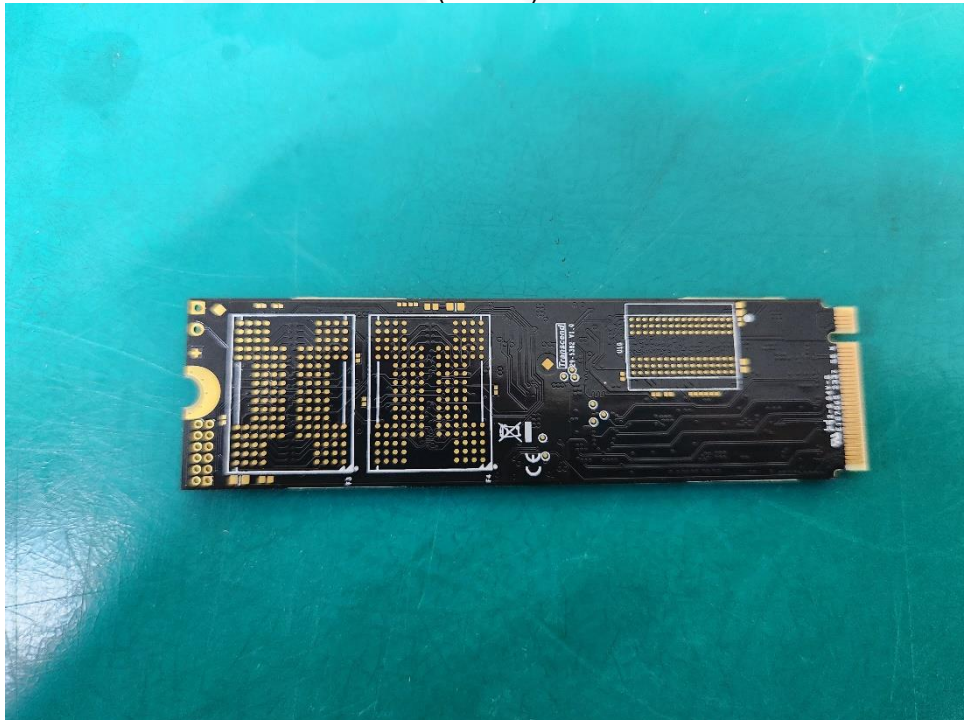


EUT Internal View – SSD

(Top)



(Bottom)





EUT Internal View – Lens

(Top)



(Bottom)





Label Photographs



Product name : NETWORK CAMERA

Model/Type No. : PNM-C32084RQZ

