



# TEST REPORT



Report No. : KES-EM251566

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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. : PNO-A7082R

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. Date of Receipt : Apr. 28, 2025

4. Test date : Apr. 29, 2025

5. Date of Issue : May. 29, 2025

6. Test Results : In Compliance

*Tested by*

*Reviewed by*

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Seong Min, Jang  
EMC Test Engineer

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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. 29, 2025 | KES-EM251566    | Issued           |
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## 1.0 General Product Description

Main Specifications of EUT are:

| Division                             |             | Specificity                                                     |
|--------------------------------------|-------------|-----------------------------------------------------------------|
| Internal highest operating frequency |             | 1.6 GHz                                                         |
| Power                                | Rated Power | DC 12 V, PoE                                                    |
|                                      | Test Power  | AC 240 V, 50 Hz                                                 |
| Ports                                | I/O Port    | Micro SD Slot 2 EA, DC 12 V 1 EA,<br>ALARMAUDIO 1 EA, PoE+ 1 EA |
|                                      | Unused Port | USB 1 EA                                                        |
| Components                           |             | Main Body 1 EA, Cable 1 EA                                      |
| Ethernet Speed                       |             | 100 Mbps                                                        |



|                             | PNO-A7082R                                                                                                                                                                                                                                           |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video</b>                |                                                                                                                                                                                                                                                      |
| Imaging Device              | 1/1.8" CMOS                                                                                                                                                                                                                                          |
| Resolution                  | 2592x1520, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180                                                                                                                                |
| Max. Framerate              | H.265/H.264: Max. 60fps/50fps(60Hz/50Hz)<br>MJPEG: Max. 30fps(@4MP Max. 5fps)                                                                                                                                                                        |
| NETD                        | None                                                                                                                                                                                                                                                 |
| Pixel Size                  | None                                                                                                                                                                                                                                                 |
| Video Out                   | USB: Micro USB Type C for installation                                                                                                                                                                                                               |
| Video Transmission Distance | None                                                                                                                                                                                                                                                 |
| <b>Lens</b>                 |                                                                                                                                                                                                                                                      |
| Focal Length (Zoom Ratio)   | 4.6~9.35mm(2.0x) motorized varifocal                                                                                                                                                                                                                 |
| Optical Zoom                | None                                                                                                                                                                                                                                                 |
| Max. Aperture Ratio         | F1.3(Wide)~F2.15(Tele)                                                                                                                                                                                                                               |
| Angular Field of View       | H: 105°(Wide)~47°(Tele)                                                                                                                                                                                                                              |
|                             | V: 58°(Wide)~27°(Tele)                                                                                                                                                                                                                               |
|                             | D: 128°(Wide)~55°(Tele)                                                                                                                                                                                                                              |
| Min. Object Distance        | 1.5m(4.92ft)                                                                                                                                                                                                                                         |
| Focus Control               | Simple focus                                                                                                                                                                                                                                         |
| Lens Type                   | P-iris(IR corrected)                                                                                                                                                                                                                                 |
| Mount Type                  | None                                                                                                                                                                                                                                                 |
| Optional Lens               | None                                                                                                                                                                                                                                                 |
| <b>Pan / Tilt / Rotate</b>  |                                                                                                                                                                                                                                                      |
| Pan / Tilt / Rotate Range   | 0°~360° / 0°~90° / 0°~180°                                                                                                                                                                                                                           |
| Pan Range                   | None                                                                                                                                                                                                                                                 |
| Pan Speed                   | None                                                                                                                                                                                                                                                 |
| Tilt Range                  | None                                                                                                                                                                                                                                                 |
| Tilt Speed                  | None                                                                                                                                                                                                                                                 |
| Rotate Range                | None                                                                                                                                                                                                                                                 |
| Sequence                    | None                                                                                                                                                                                                                                                 |
| Preset Accuracy             | None                                                                                                                                                                                                                                                 |
| <b>Operational</b>          |                                                                                                                                                                                                                                                      |
| Camera Title                | Displayed up to 85 characters                                                                                                                                                                                                                        |
| Direction Indicator         | None                                                                                                                                                                                                                                                 |
| Day & Night                 | Auto(ICR)                                                                                                                                                                                                                                            |
| Backlight Compensation      | BLC, HLC, WDR, SDR                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                          |
| Privacy Masking             | 32ea, 8point polygonal zones                                                                                                                                                                                                                         |
|                             | - Color: gray/green/red/blue/black/white/purple/yellow                                                                                                                                                                                               |
|                             | - Mosaic                                                                                                                                                                                                                                             |
| Gain Control                | Dynamic Privacy Mask(Based on AI engine)                                                                                                                                                                                                             |
|                             | - Color: gray/green/red/blue/black/white/purple/yellow                                                                                                                                                                                               |
|                             | - Mosaic                                                                                                                                                                                                                                             |
| White Balance               | ATW / NarrowATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                                                    |
| LDC                         | Support(Fill/Stretch mode)                                                                                                                                                                                                                           |
| Electronic Shutter Speed    | Minimum / Maximum / Anti flicker(2~1/30,000sec)<br>Prefer shutter control(Based on AI engine)                                                                                                                                                        |
| Digital PTZ                 | None                                                                                                                                                                                                                                                 |
| Video Rotation              | Flip, mirror, hallway view(90°/270°)                                                                                                                                                                                                                 |
| Analytics                   | Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle)/License plate                                                                                                                                                    |
|                             | Attributes: Person(Gender, Clothing top/bottom color, Bag), Face(Age, Gender, Mask, Glasses), Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color)                                                                                                 |
|                             | Support BestShot<br>Support Re-ID(Person)                                                                                                                                                                                                            |
| Business Intelligence       | 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<br>- Defocus detection, Tampering, Shock detection, Audio detection                                                                                                                                                                 |
| Serial Interface            | None                                                                                                                                                                                                                                                 |
| Alarm I/O                   | 2 configurable I/O ports, DC 12V output(Max. 50mA)                                                                                                                                                                                                   |



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|                                       |                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Triggers                        | Analytics, Network disconnection, Alarm input, Time schedule, MQTT subscription, Day/Night, Storage disruption, Case tampering                                                                                                                                                                                                              |
| Alarm Events                          | When alarm trigger occurred<br>- File upload(image): e-mail/FTP/SFTP<br>- File upload(video clip): FTP/SFTP<br>- Notification: e-mail<br>- Recording: SD/SDHC/SDXC or NAS recording at event triggers<br>- Alarm output<br>- Handover: PTZ preset, send message by HTTP/HTTPS/TCP<br>- Audio clip playback(WAV, MP3)<br>- MQTT: publication |
| Audio Streaming                       | None                                                                                                                                                                                                                                                                                                                                        |
| Audio In                              | Selectable(mic in/line in)                                                                                                                                                                                                                                                                                                                  |
| Audio Out                             | Line out                                                                                                                                                                                                                                                                                                                                    |
| Light Type                            | IR LED                                                                                                                                                                                                                                                                                                                                      |
| Light Viewable Length                 | WiseIR 60m(196.85ft)                                                                                                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                                                                                                                                        |
| <b>Radiometry</b>                     |                                                                                                                                                                                                                                                                                                                                             |
| Temperature Detect Range              | None                                                                                                                                                                                                                                                                                                                                        |
| Temperature Accuracy                  | None                                                                                                                                                                                                                                                                                                                                        |
| Temperature Detection                 | None                                                                                                                                                                                                                                                                                                                                        |
| Additional                            | None                                                                                                                                                                                                                                                                                                                                        |
| <b>Network</b>                        |                                                                                                                                                                                                                                                                                                                                             |
| Ethernet                              | Metal shielded RJ-45(10/100/1000BASE-T)                                                                                                                                                                                                                                                                                                     |
| Video Compression                     | H.265/H.264: Main/Baseline/High<br>MJPEG                                                                                                                                                                                                                                                                                                    |
| Audio Compression                     | G.711(PCM): 8kHz(64Kbps)<br>G.726(ADPCM): 8kHz(16/24/32/40Kbps)<br>AAC-LC: 16kHz(48Kbps)<br>OPUS: 48kHz(64Kbps)                                                                                                                                                                                                                             |
| Smart Codec                           | WiseStream(Based on AI engine)                                                                                                                                                                                                                                                                                                              |
| Video Quality Adjustment              | None                                                                                                                                                                                                                                                                                                                                        |
| Bitrate Control                       | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                                                                                                                                                       |
| Streaming                             | Unicast(20 users) / Multicast<br>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 support (VoIP, Peer-to-peer, )    | None                                                                                                                                                                                                                                                                                                                                        |
| Security                              | None                                                                                                                                                                                                                                                                                                                                        |
| Application Programming Interface     | ONVIF Profile S/G/T/M<br>SUNAPI(HTTP API)<br>Hanwha Vision Open Platform                                                                                                                                                                                                                                                                    |
| <b>Security</b>                       |                                                                                                                                                                                                                                                                                                                                             |
| OS / Firmware Protect                 | Encrypted Firmware, Secure boot, Signed Firmware                                                                                                                                                                                                                                                                                            |
| User authentication                   | Digest Authentication, Prevent brute-force attack                                                                                                                                                                                                                                                                                           |
| Network authentication                | 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)                                                                                                                                                                                                                                                                                 |
| Secure Communication                  | HTTPS, SRTP, WSS(Websocket secure)                                                                                                                                                                                                                                                                                                          |
| Access Control                        | IP-based access control, MAC-based access control, Auto logout                                                                                                                                                                                                                                                                              |
| Data Protect                          | Encryption Credentials, Encrypt compress for live recording file export                                                                                                                                                                                                                                                                     |
| Audit                                 | Access / System / Event Log management                                                                                                                                                                                                                                                                                                      |
| Device ID                             | Device Certificate(Hanwha vision Root CA)                                                                                                                                                                                                                                                                                                   |
| Secure Storage                        | Secure element, SDcard partition encrypt                                                                                                                                                                                                                                                                                                    |
| Security Certificate                  | ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+)                                                                                                                                                                                                                                                                                |
| <b>General</b>                        |                                                                                                                                                                                                                                                                                                                                             |
| 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 2slots 2TB(1TBx2)                                                                                                                                                                                                                                                                                                        |
| Memory                                | 4GB RAM, 8GB eMMC                                                                                                                                                                                                                                                                                                                           |
| <b>Environmental &amp; Electrical</b> |                                                                                                                                                                                                                                                                                                                                             |

KES-QP16-F01(00-23-01-01)

KES Co., Ltd.

The authenticity of this test report can be found on the verification page of our website (www.kes.co.kr)



|                                       |                                                                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature / Humidity      | -50°C~+55°C(-58°F~+131°F) / 0~100% RH<br>+74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7)<br>* Start up should be done at above -30°C<br>Humidity control /w AIR vent                                                      |
| Storage Temperature / Humidity        | -50°C~+60°C(-58°F~+140°F) / 0~90% RH                                                                                                                                                                                   |
| Wind Load                             | None                                                                                                                                                                                                                   |
| EPA(Effective Projected Area)         | 0.026m <sup>2</sup>                                                                                                                                                                                                    |
| Certification                         | IP66/IP67, NEMA4X, IK10, NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9)                                                                                                                                                            |
| Input Voltage                         | PoE+(IEEE802.3at type2, Class4), 12VDC                                                                                                                                                                                 |
| Power Consumption                     | PoE: Max. 15.0W, typical 9.0W<br>12VDC: Max. 12.7W, typical 7.8W<br>Support Wisepower<br>- Power monitoring(Max./Current/Avg.)<br>- Power Redundance Failover                                                          |
| <b>Mechanical</b>                     |                                                                                                                                                                                                                        |
| Color / Material                      | White / Aluminum<br>Window: Hard-coated window                                                                                                                                                                         |
| RAL Code                              | RAL9003                                                                                                                                                                                                                |
| Product Dimensions / Weight           | ø93.4x298.4mm(ø3.68x11.75"), 2,060g(4.54lb)                                                                                                                                                                            |
| Compatible Conduit hole / Gang        | 19.1mm(3/4")(M25)<br>single, double, 4" octagon, 4" square                                                                                                                                                             |
| <b>Certifications &amp; Standards</b> |                                                                                                                                                                                                                        |
| Network                               | None                                                                                                                                                                                                                   |
| EMC                                   | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A<br>KS C 9832 Class A, KS C 9835 |
| Safety                                | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC/EN 62471                                                                                                                                                                  |
| Environment                           | IEC/EN 63000<br>IEC/EN 60529 IP66/IP67/IP6K9K, IEC/EN 62262 IK11, NEMA 250 Type 4X, NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9)<br>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                                                                                                                                                                                                                   |
| <b>Compatible Models</b>              |                                                                                                                                                                                                                        |
| Hanging Adaptor                       | SBP-160HMMW1                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                |
| 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               | SBP-115PFA                                                                                                                                                                                                             |
| <b>DORI (EN62676-4 standard)</b>      |                                                                                                                                                                                                                        |
| Detect (25PPM/ 8PPF)                  | Wide: 39.8m(130.51ft) / Tele: 119.2m(391.15ft)                                                                                                                                                                         |
| Observe (63PPM/ 19PPF)                | Wide: 15.9m(52.20ft) / Tele: 47.7m(156.46ft)                                                                                                                                                                           |
| Recognize (125PPM/ 38PPF)             | Wide: 8.0m(26.10ft) / Tele: 23.8m(78.23ft)                                                                                                                                                                             |
| Identify (250PPM/ 76PPF)              | Wide: 4.0m(13.05ft) / Tele: 11.9m(39.12ft)                                                                                                                                                                             |



## 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 240 V, 50 Hz

## 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 | PNO-A7082R   | -             | HANWHA VISION VIETNAM COMPANY LIMITED | EUT     |

## 1.5 Support Equipments

| Description    | Model Number    | Serial Number | Manufacturer                                  | Remarks |
|----------------|-----------------|---------------|-----------------------------------------------|---------|
| AC/DC Adapter  | 2ACB022F        | -             | Channel Well Technology (Guangzhou) Co., Ltd. | -       |
| PoE Adapter    | PT-PSE109GBRO-A | -             | Dongguan PROCET Network Technology Co.,Ltd    |         |
| Laptop         | P95G001         | 9JM8HT2       | DELL INC.                                     | -       |
| Laptop Adapter | HA65NM130       | -             | Chicony Power Technology(Suzhou)Co.,Ltd.      | -       |
| Alarm          | -               | -             | -                                             | -       |
| Button Alarm   | -               | -             | -                                             | -       |
| Phone          | SHV-E330S       | -             | SAMSUNG                                       | -       |
| Headset        | K550            | -             | Britz®                                        | -       |
| Micro SD Card1 | -               | -             | Sandisk                                       | 8 GB    |
| Micro SD Card2 | -               | -             | Sandisk                                       | 8 GB    |



## 1.6 External I/O Cabling

■ mode 1

| Start                |                        | END            |               | Cable Spec. |        |
|----------------------|------------------------|----------------|---------------|-------------|--------|
| Description          | I/O Port               | Description    | I/O Port      | Length      | Shield |
| NETWORK CAMERA (EUT) | PoE+                   | Laptop         | RJ-45 (LAN)   | 3.1         | U      |
|                      | Micro SD Slot          | Micro SD Card1 | Micro SD Slot | -           | -      |
|                      | Micro SD Slot          | Micro SD Card2 | Micro SD Slot | -           | -      |
|                      | ALARMAUDIO (Alarm OUT) | Alarm          | Alarm IN      | 3.1         | U      |
|                      | ALARMAUDIO (Alarm IN)  | Button Alarm   | Alarm OUT     | 3.2         | U      |
|                      | ALARMAUDIO (Mic)       | Phone          | 3.5 mm        | 1.0         | U      |
|                      | ALARMAUDIO (Speaker)   | Headset        | 3.5 mm        | 1.8         | U      |
|                      | DC 12 V                | AC/DC Adapter  | Line          | 1.2         | U      |
| Laptop               | DC Jack                | Laptop Adapter | Line          | 1.7         | U      |

\* Unshielded=U, Shielded=S

■ mode 2

| Start                |                        | END            |               | Cable Spec. |        |
|----------------------|------------------------|----------------|---------------|-------------|--------|
| Description          | I/O Port               | Description    | I/O Port      | Length      | Shield |
| NETWORK CAMERA (EUT) | PoE+                   | PoE Adaptor    | RJ-45 (PoE)   | 3.1         | U      |
|                      | Micro SD Slot          | Micro SD Card1 | Micro SD Slot | -           | -      |
|                      | Micro SD Slot          | Micro SD Card2 | Micro SD Slot | -           | -      |
|                      | ALARMAUDIO (Alarm OUT) | Alarm          | Alarm IN      | 3.1         | U      |
|                      | ALARMAUDIO (Alarm IN)  | Button Alarm   | Alarm OUT     | 3.2         | U      |
|                      | ALARMAUDIO (Mic)       | Phone          | 3.5 mm        | 1.0         | U      |
|                      | ALARMAUDIO (Speaker)   | Headset        | 3.5 mm        | 1.8         | U      |
|                      |                        |                |               |             |        |
| Laptop               | RJ-45 (LAN)            | PoE Adapter    | RJ-45 (LAN)   | 1.0         | U      |
|                      | DC Jack                | Laptop Adapter | Line          | 1.7         | U      |

\* Unshielded=U, Shielded=S



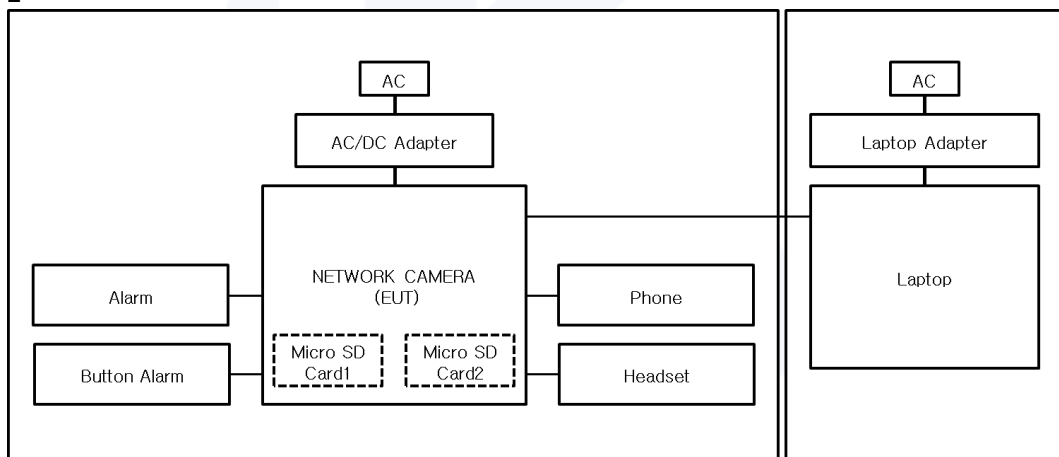
## 1.7 EUT Operating Mode(s)

| Test mode | Normal operating                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode 1    | <ul style="list-style-type: none"><li>- Check the network behavior of the EUT with the laptop's ping test</li><li>- View images of the camera through the Web Viewer</li><li>- Play the 1 kHz tone through the Phone to see the sound output with the headset</li><li>- When the alarm is pressed, make sure the button alarm is working</li><li>- After testing, check the recording with Micro SD Card</li></ul> |
| mode 2    |                                                                                                                                                                                                                                                                                                                                                                                                                    |

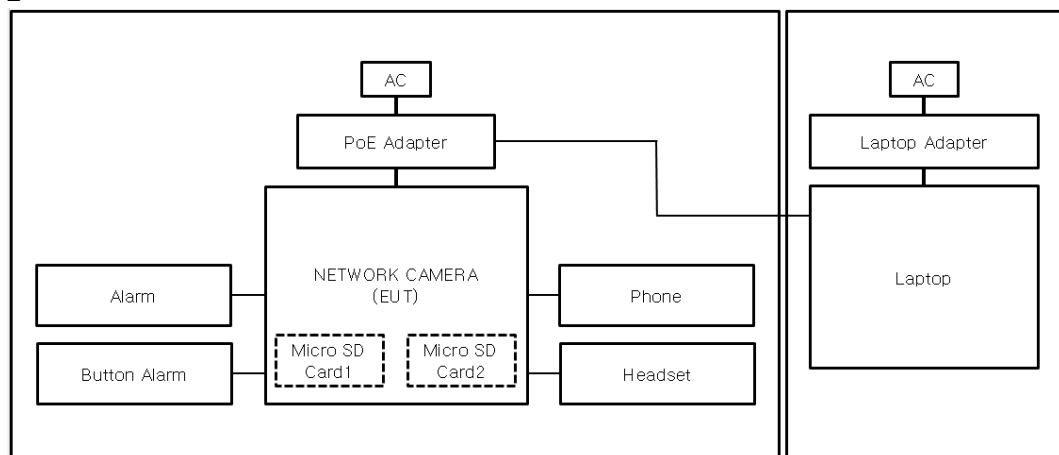
| EUT Test operating S/W |         |                                       |
|------------------------|---------|---------------------------------------|
| Name                   | Version | Manufacture Company                   |
| Web Viewer             | -       | HANWHA VISION VIETNAM COMPANY LIMITED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

## 1.8 Configuration

### ■ mode 1



### ■ mode 2



**1.9 Remarks when standards applied**

- USB port is unused and have not been tested.
- PoE port is considered to be wired network port, so power-related test items are excluded.

**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, 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

**1.12 Laboratory Accreditations and Listings**

| Country       | Agency  | Scope of Accreditation                                                                                                                  | Logo                                                                                                                           |
|---------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| KOREA         | RRA     | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>KR0100                                  |
| International | KOLAS   | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>KT489                                  |
| USA           | FCC     | 3 m & 10 m Semi-Anechoic Chamber<br>Conducted test site to perform FCC Part 15/18 measurements.                                         | <br>KR0100                                |
| Canada        | ISED    | 3 m & 10 m Semi-Anechoic Chamber and Conducted test site                                                                                | <br>23298                                 |
| JAPAN         | VCCI    | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)                                                                          | <br>C-20136, T-20137,<br>R-20181, G-20176 |
| Europe        | TÜV SÜD | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>CARAT 001633 0008                     |



## 2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **AS/NZS CISPR 32:2015 AMD 1:2020**

☒ Class A

☐ Class B





## 2.1 Conducted Emissions at Mains Power Ports

**Test Date**

Apr. 29, 2025

**Test Location**

Electro wave Shieldroom #6

**Test Equipment**

| Used                                | Description       | Model Number | Manufacturer | Serial Number | Cal. Due     |
|-------------------------------------|-------------------|--------------|--------------|---------------|--------------|
| <input checked="" type="checkbox"/> | EMI Test S/W      | EMC32        | R & S        | 9.12.00       | -            |
| <input checked="" type="checkbox"/> | EMI TEST RECEIVER | ESR3         | R & S        | 101783        | 11, 06, 2025 |
| <input checked="" type="checkbox"/> | LISN              | ENV216       | R & S        | 101786        | 01, 09, 2026 |
| <input checked="" type="checkbox"/> | PULSE LIMITER     | ESH3-Z2      | R & S        | 101915        | 11, 06, 2025 |

**Test Conditions**

Temperature: (23,4 ± 0,2) °C

Relative Humidity: (46,5 ± 0,1) % 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 Conducted Emissions at Telecommunication Ports

**Test Date**

Apr. 29, 2025

**Test Location**

Electro wave Shieldroom #6

**Test Equipment**

| Used                                | Description       | Model Number | Manufacturer | Serial Number | Cal. Due     |
|-------------------------------------|-------------------|--------------|--------------|---------------|--------------|
| <input checked="" type="checkbox"/> | EMI Test S/W      | EMC32        | R & S        | 9.12.00       | -            |
| <input checked="" type="checkbox"/> | EMI TEST RECEIVER | ESR3         | R & S        | 101783        | 11, 06, 2025 |
| <input checked="" type="checkbox"/> | LISN              | ENV216       | R & S        | 101786        | 01, 09, 2026 |
| <input checked="" type="checkbox"/> | PULSE LIMITER     | ESH3-Z2      | R & S        | 101915        | 11, 06, 2025 |
| <input checked="" type="checkbox"/> | 8-WIRE ISN CAT3,5 | ENY81        | R & S        | 100174        | 11, 12, 2025 |

**Test Conditions**

Temperature: (23,4 ± 0,2) °C

Relative Humidity: (46,5 ± 0,1) % 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.



## 2.3 Radiated Electric Field Emissions(Below 1 GHz)

**Test Date**

Apr. 29, 2025

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

| Used                                | Description       | Model Number | Manufacturer     | Serial Number | Cal. Due     |
|-------------------------------------|-------------------|--------------|------------------|---------------|--------------|
| <input checked="" type="checkbox"/> | EMI Test S/W      | EP5/RE       | TOYO Corporation | 6.0.0         | -            |
| <input checked="" type="checkbox"/> | EMI TEST RECEIVER | ESW8         | R & S            | 101319        | 03, 24, 2026 |
| <input checked="" type="checkbox"/> | AMPLIFIER         | SCU 01       | R & S            | 100603        | 11, 06, 2025 |
| <input checked="" type="checkbox"/> | BILOG ANTENNA     | VULB 9168    | SCHWARZBECK      | 9168-461      | 05, 09, 2026 |
| <input checked="" type="checkbox"/> | ATTENUATOR        | 6806.17.A    | HUBER+SUHNER     | -             | 02, 13, 2026 |

**Test Conditions**

Temperature: (23,0 ± 0,2) °C

Relative Humidity: (46,3 ± 0,2) % 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.



## 2.4 Radiated Electric Field Emissions(Above 1 GHz)

**Test Date**

Apr. 29, 2025

**Test Location**

SEMI ANECHOIC CHAMBER #5

**Test Equipment**

| Used                                | Description       | Model Number | Manufacturer     | Serial Number | Cal. Due     |
|-------------------------------------|-------------------|--------------|------------------|---------------|--------------|
| <input checked="" type="checkbox"/> | EMI Test S/W      | ES10/RE      | TOYO Corporation | 2022.01.000   | -            |
| <input checked="" type="checkbox"/> | EMI TEST RECEIVER | ESU26        | Rohde & Schwarz  | 100552        | 02, 13, 2026 |
| <input checked="" type="checkbox"/> | HORN ANTENNA      | BBHA 9120D   | SCHWARZBECK      | 9120D-1802    | 11, 04, 2025 |
| <input checked="" type="checkbox"/> | PREAMPLIFIER      | 8449B        | HP               | 3008A00538    | 04, 30, 2025 |
| <input checked="" type="checkbox"/> | ATTENUATOR        | 8491B        | HP               | 23094         | 02, 13, 2026 |

**Test Conditions**

Temperature: (23,4 ± 0,2) °C

Relative Humidity: (46,3 ± 0,1) % R.H.

**Frequency Range of Measurement**

1 GHz to 6 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.  
- The Average of the test data is the cispr average result.



## APPENDIX A – TEST DATA

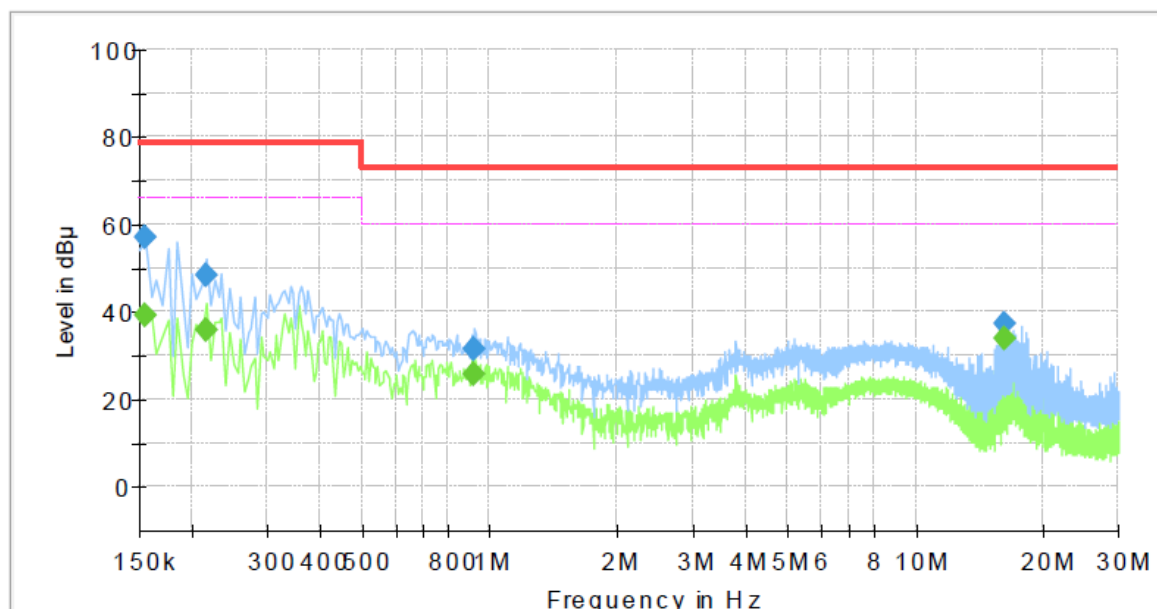
### Conducted Emissions at Mains Power Ports

■ mode 1

HOT LINE

1 / 1

Test Description: Conducted Emission  
Job No.: KES-EM251566  
Phase: L  
Mode: mode 1  
Operator Name: KES



### Final\_Result

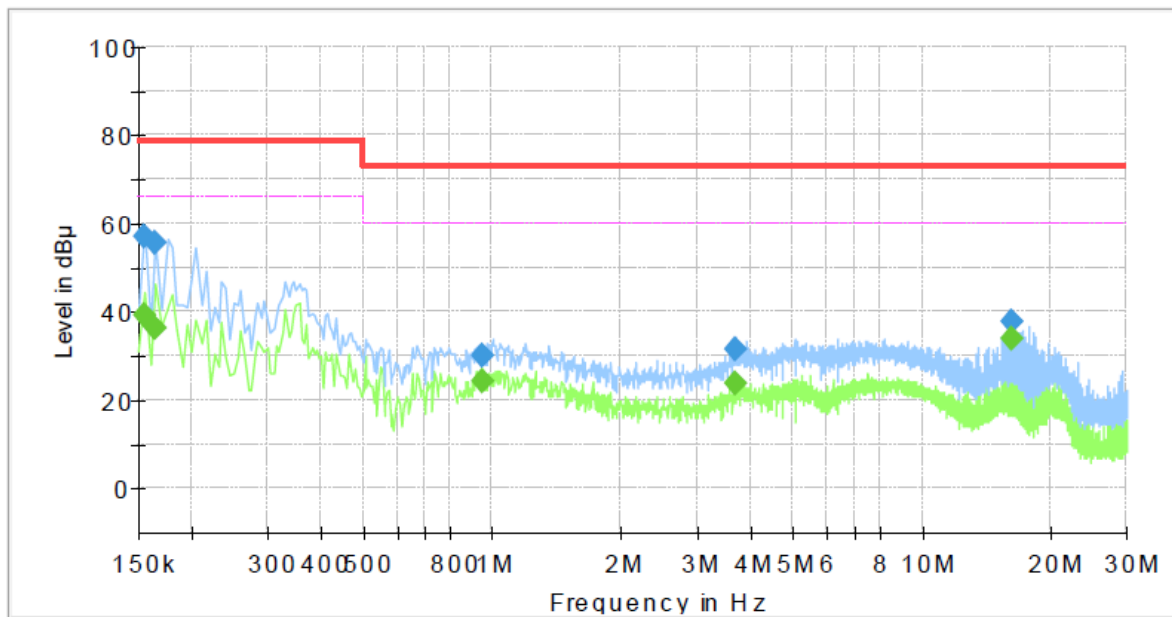
| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | CAverage (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------------|-----------------------|--------------------|-------------|-----------------|-----------------|------|------------|
| 0.155000        | —                      | 39.31                 | 66.00              | 26.69       | 1000.0          | 9.000           | L1   | 19.5       |
| 0.155000        | 56.83                  | —                     | 79.00              | 22.17       | 1000.0          | 9.000           | L1   | 19.5       |
| 0.215000        | —                      | 35.85                 | 66.00              | 30.15       | 1000.0          | 9.000           | L1   | 19.5       |
| 0.215000        | 48.48                  | —                     | 79.00              | 30.52       | 1000.0          | 9.000           | L1   | 19.5       |
| 0.920000        | —                      | 25.80                 | 60.00              | 34.20       | 1000.0          | 9.000           | L1   | 19.6       |
| 0.920000        | 31.31                  | —                     | 73.00              | 41.69       | 1000.0          | 9.000           | L1   | 19.6       |
| 16.230000       | —                      | 33.69                 | 60.00              | 26.31       | 1000.0          | 9.000           | L1   | 20.3       |
| 16.230000       | 37.11                  | —                     | 73.00              | 35.89       | 1000.0          | 9.000           | L1   | 20.3       |



## NEUTRAL LINE

1 / 1

Test Description: Conducted Emission  
Job No.: KES-EM251566  
Phase: N  
Mode: mode 1  
Operator Name: KES

**Final\_Result**

| Frequency (MHz) | QuasiPeak (dBμV) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.155000        | ---              | 39.17           | 66.00        | 26.83       | 1000.0          | 9.000           | N    | 19.5       |
| 0.155000        | 56.84            | ---             | 79.00        | 22.16       | 1000.0          | 9.000           | N    | 19.5       |
| 0.165000        | ---              | 36.51           | 66.00        | 29.49       | 1000.0          | 9.000           | N    | 19.5       |
| 0.165000        | 55.46            | ---             | 79.00        | 23.54       | 1000.0          | 9.000           | N    | 19.5       |
| 0.950000        | ---              | 24.48           | 60.00        | 35.52       | 1000.0          | 9.000           | N    | 19.6       |
| 0.950000        | 30.07            | ---             | 73.00        | 42.93       | 1000.0          | 9.000           | N    | 19.6       |
| 3.675000        | ---              | 23.86           | 60.00        | 36.14       | 1000.0          | 9.000           | N    | 19.8       |
| 3.675000        | 31.62            | ---             | 73.00        | 41.38       | 1000.0          | 9.000           | N    | 19.8       |
| 16.230000       | ---              | 34.13           | 60.00        | 25.87       | 1000.0          | 9.000           | N    | 20.3       |
| 16.230000       | 37.74            | ---             | 73.00        | 35.26       | 1000.0          | 9.000           | N    | 20.3       |

## ◆ Calculation

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

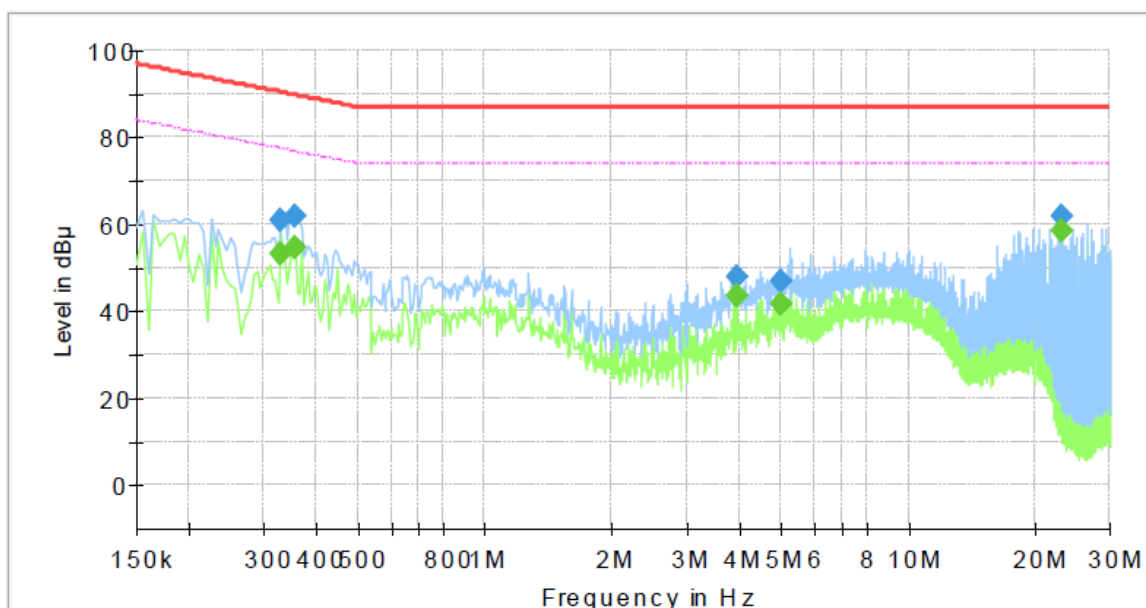
**Conducted Emissions at Telecommunication Ports**

■ mode 1

[100 Mbps]

1 / 1

Test Description: Telecommunication Emission  
Job No.: KES-EM251566  
Mode : mode 1  
Speed : 100 Mbps  
Operator Name: KES

**Final Result**

| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | CAverage (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line        | Corr. (dB) |
|-----------------|------------------------|-----------------------|--------------------|-------------|-----------------|-----------------|-------------|------------|
| 0.330000        | ---                    | 53.10                 | 77.45              | 24.35       | 1000.0          | 9.000           | Single Line | 19.5       |
| 0.330000        | 60.98                  | ---                   | 90.45              | 29.47       | 1000.0          | 9.000           | Single Line | 19.5       |
| 0.355000        | ---                    | 54.43                 | 76.84              | 22.41       | 1000.0          | 9.000           | Single Line | 19.5       |
| 0.355000        | 61.79                  | ---                   | 89.84              | 28.05       | 1000.0          | 9.000           | Single Line | 19.5       |
| 3.955000        | ---                    | 43.70                 | 74.00              | 30.30       | 1000.0          | 9.000           | Single Line | 19.5       |
| 3.955000        | 48.13                  | ---                   | 87.00              | 38.87       | 1000.0          | 9.000           | Single Line | 19.5       |
| 5.025000        | ---                    | 41.75                 | 74.00              | 32.25       | 1000.0          | 9.000           | Single Line | 19.5       |
| 5.025000        | 47.09                  | ---                   | 87.00              | 39.91       | 1000.0          | 9.000           | Single Line | 19.5       |
| 23.130000       | ---                    | 58.67                 | 74.00              | 15.33       | 1000.0          | 9.000           | Single Line | 20.1       |
| 23.130000       | 61.81                  | ---                   | 87.00              | 25.19       | 1000.0          | 9.000           | Single Line | 20.1       |

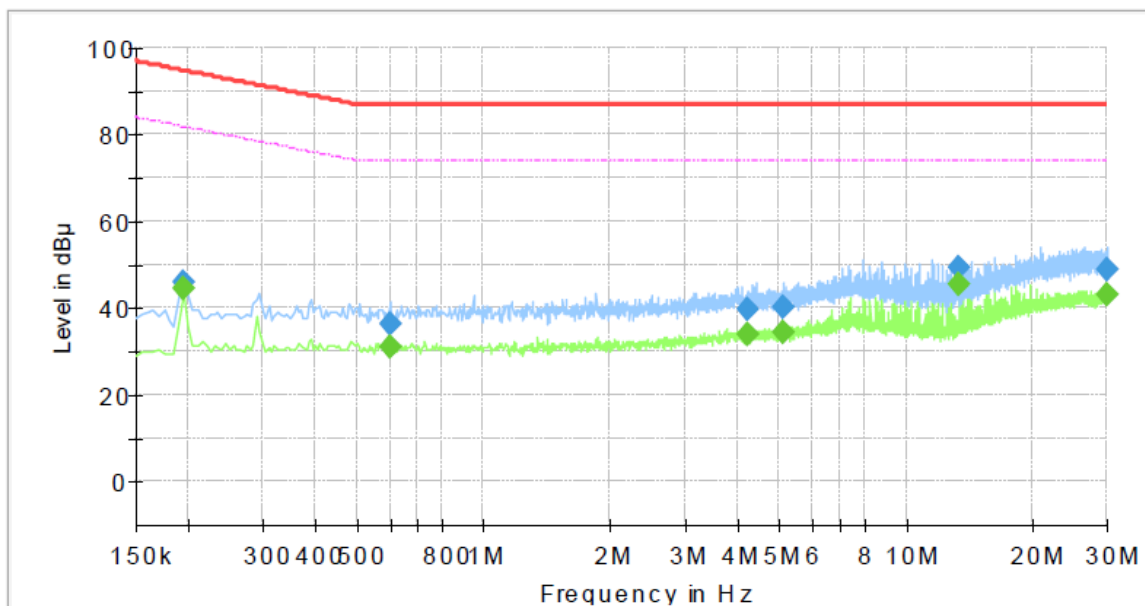


■ mode 2

[100 Mbps]

1 / 1

Test Description: Telecommunication Emission  
Job No.: KES-EM251566  
Mode : mode 2  
Speed : 100 Mbps  
Operator Name: KES



## Final\_Result

| Frequency (MHz) | QuasiPeak (dBμV) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line        | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|-------------|------------|
| 0.195000        | ---              | 44.30           | 81.82        | 37.52       | 1000.0          | 9.000           | Single Line | 19.7       |
| 0.195000        | 45.97            | ---             | 94.82        | 48.85       | 1000.0          | 9.000           | Single Line | 19.7       |
| 0.600000        | ---              | 30.86           | 74.00        | 43.14       | 1000.0          | 9.000           | Single Line | 19.5       |
| 0.600000        | 36.50            | ---             | 87.00        | 50.50       | 1000.0          | 9.000           | Single Line | 19.5       |
| 4.205000        | ---              | 33.88           | 74.00        | 40.12       | 1000.0          | 9.000           | Single Line | 19.5       |
| 4.205000        | 39.65            | ---             | 87.00        | 47.35       | 1000.0          | 9.000           | Single Line | 19.5       |
| 5.110000        | ---              | 34.27           | 74.00        | 39.73       | 1000.0          | 9.000           | Single Line | 19.5       |
| 5.110000        | 39.98            | ---             | 87.00        | 47.02       | 1000.0          | 9.000           | Single Line | 19.5       |
| 13.360000       | ---              | 45.65           | 74.00        | 28.35       | 1000.0          | 9.000           | Single Line | 19.7       |
| 13.360000       | 49.27            | ---             | 87.00        | 37.73       | 1000.0          | 9.000           | Single Line | 19.7       |
| 29.980000       | ---              | 43.09           | 74.00        | 30.91       | 1000.0          | 9.000           | Single Line | 20.3       |
| 29.980000       | 48.82            | ---             | 87.00        | 38.18       | 1000.0          | 9.000           | Single Line | 20.3       |

### ◆ Calculation

QuasiPeak[dBμV] / CAverage [dBμV] = Reading Value[dBμV] + Corr. [dB]

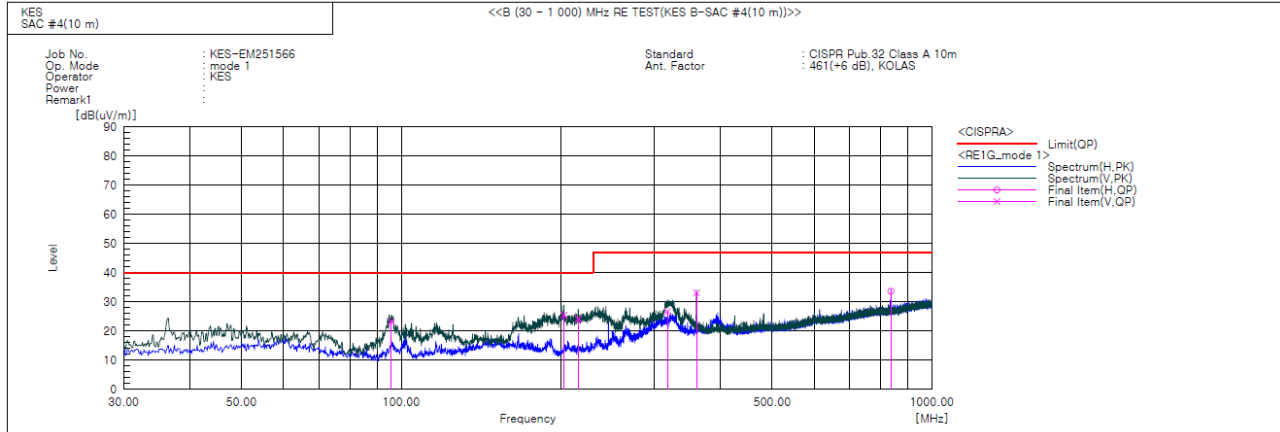
QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (ISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**Radiated Electric Field Emissions(Below 1 GHz)**

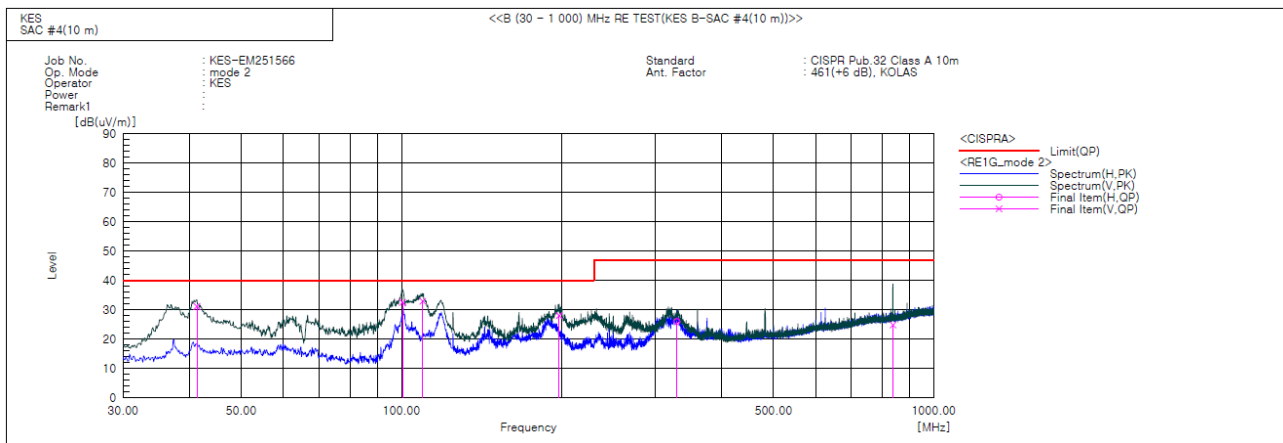
■ mode 1

**Final Result**

| No. | Frequency [MHz] | (P) | Reading QP [dB(uV)] | c.f [dB(1/m)] | Result QP [dB(uV/m)] | Limit QP [dB(uV/m)] | Margin QP [dB] | Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-------------|--------|
| 1   | 95.839          | V   | 48.6                | -25.5         | 23.1                 | 40.0                | 16.9           | 102.0       | 240.0       |        |
| 2   | 202.660         | V   | 47.2                | -21.8         | 25.4                 | 40.0                | 14.6           | 101.0       | 295.0       |        |
| 3   | 215.634         | V   | 45.5                | -21.4         | 24.1                 | 40.0                | 15.9           | 102.0       | 287.0       |        |
| 4   | 317.241         | V   | 43.1                | -16.4         | 26.7                 | 47.0                | 20.3           | 103.0       | 244.0       |        |
| 5   | 360.043         | V   | 48.2                | -15.1         | 33.1                 | 47.0                | 13.9           | 101.0       | 40.0        |        |
| 6   | 836.919         | H   | 36.6                | -3.0          | 33.6                 | 47.0                | 13.4           | 399.0       | 48.0        |        |



## mode 2



## 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   | 41.276          | V   | 52.8                | -21.7         | 31.1                 | 40.0                | 8.9            | 103.0       | 283.0       |        |
| 2   | 100.446         | V   | 57.3                | -24.8         | 32.5                 | 40.0                | 7.5            | 113.0       | 158.0       |        |
| 3   | 109.540         | V   | 56.4                | -23.5         | 32.9                 | 40.0                | 7.1            | 106.0       | 256.0       |        |
| 4   | 197.810         | V   | 49.9                | -21.9         | 28.0                 | 40.0                | 12.0           | 106.0       | 233.0       |        |
| 5   | 329.124         | H   | 42.1                | -16.1         | 26.0                 | 47.0                | 21.0           | 399.0       | 279.0       |        |
| 6   | 838.374         | V   | 27.8                | -3.0          | 24.8                 | 47.0                | 22.2           | 100.0       | 327.0       |        |

## ◆ Calculation

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

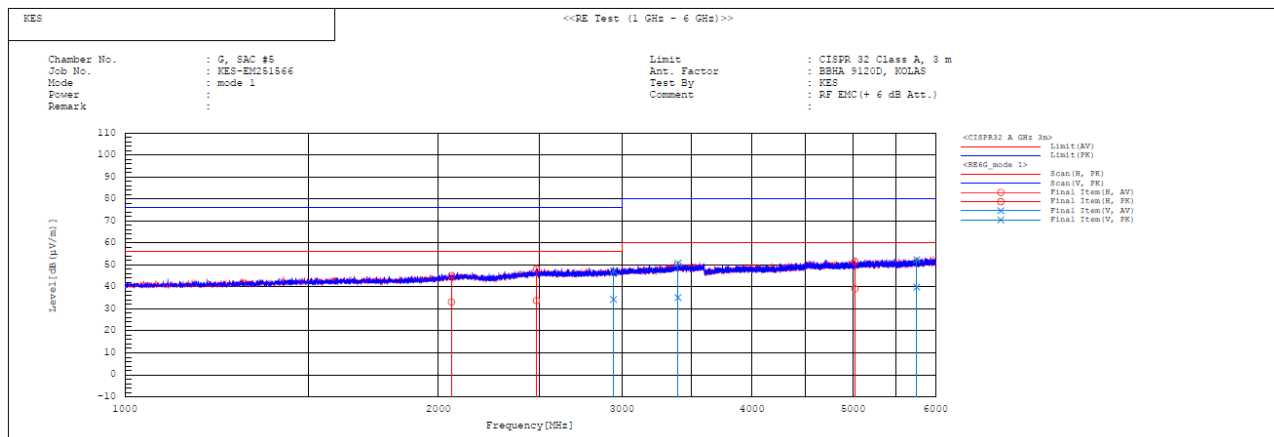
Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

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

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

**Radiated Electric Field Emissions(Above 1 GHz)**

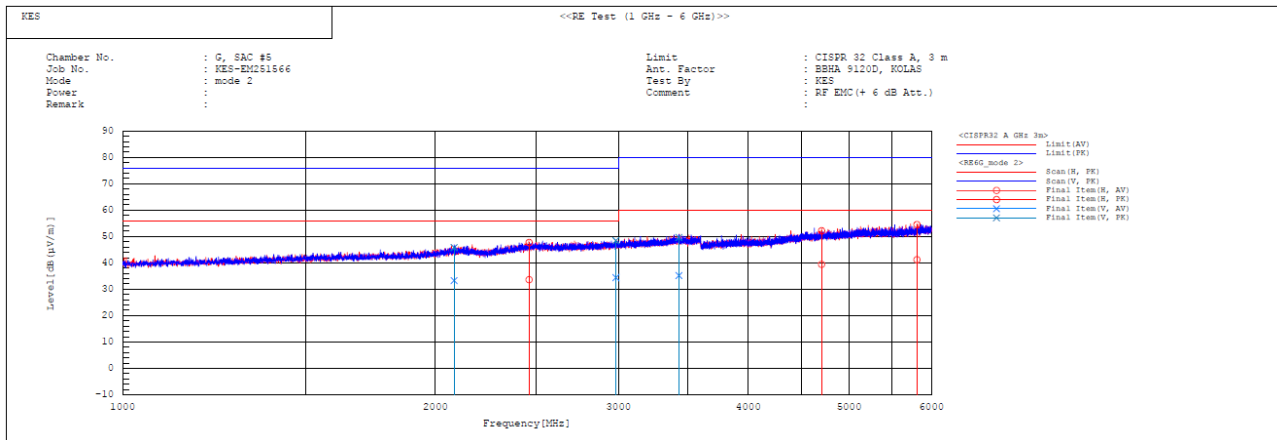
■ mode 1

**Final Result**

| No. | Frequency [MHz] | Pol | Reading AV [dB(μV)] | Reading PK [dB(μV)] | c.f [dB(1/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   | 2058.319        | H   | 29.7                | 41.8                | 3.4           | 45.2                 | 56.0                | 76.0                | 22.9           | 30.8           | 100.0       | 8.4         |        |
| 2   | 2483.204        | H   | 28.8                | 43.2                | 5.0           | 48.2                 | 56.0                | 76.0                | 22.2           | 27.8           | 100.0       | 260.3       |        |
| 3   | 2945.394        | V   | 28.2                | 41.1                | 6.1           | 47.2                 | 56.0                | 76.0                | 21.7           | 28.8           | 100.0       | 48.3        |        |
| 4   | 3396.700        | V   | 27.9                | 43.6                | 7.2           | 50.8                 | 60.0                | 80.0                | 24.9           | 29.2           | 100.0       | 27.9        |        |
| 5   | 5020.185        | H   | 27.5                | 40.0                | 11.6          | 51.6                 | 60.0                | 80.0                | 20.9           | 28.4           | 100.0       | 322.8       |        |
| 6   | 5756.006        | V   | 27.0                | 39.5                | 12.9          | 52.4                 | 60.0                | 80.0                | 20.1           | 27.6           | 100.0       | 78.0        |        |



## mode 2



| No. | Frequency [MHz] | Pol | Reading AV [dB (μV)] | Reading PK [dB (μV)] | c.f [dB (1/m)] | Result PK [dB (μV/m)] | Limit AV [dB (μV/m)] | Limit PK [dB (μV/m)] | Margin AV [dB] | Margin PK [dB] | Margin Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|----------------------|----------------------|----------------|-----------------------|----------------------|----------------------|----------------|----------------|--------------------|-------------|--------|
| 1   | 2085.102        | V   | 29.9                 | 42.4                 | 3.4            | 45.8                  | 56.0                 | 76.0                 | 22.7           | 30.2           | 100.0              | 338.1       |        |
| 2   | 2460.698        | H   | 28.7                 | 42.8                 | 4.9            | 47.7                  | 56.0                 | 76.0                 | 22.4           | 28.3           | 100.0              | 299.0       |        |
| 3   | 2983.006        | V   | 28.0                 | 42.0                 | 6.4            | 48.4                  | 56.0                 | 76.0                 | 21.6           | 27.6           | 100.0              | 216.8       |        |
| 4   | 3430.134        | V   | 28.1                 | 42.5                 | 7.6            | 49.6                  | 60.0                 | 80.0                 | 24.8           | 30.4           | 100.0              | 149.6       |        |
| 5   | 4705.332        | H   | 27.9                 | 40.7                 | 10.8           | 52.2                  | 60.0                 | 80.0                 | 20.6           | 27.8           | 100.0              | 187.6       |        |
| 6   | 5811.254        | H   | 27.0                 | 40.3                 | 13.2           | 54.5                  | 60.0                 | 80.0                 | 18.8           | 25.5           | 100.0              | 220.9       |        |

## ◆ 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(PK/CAV) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



## Test Setup Photos and Configuration

### Conducted Emissions at Mains Power Ports

■ mode 1





## Conducted Emissions at Telecommunication Ports

■ mode 1





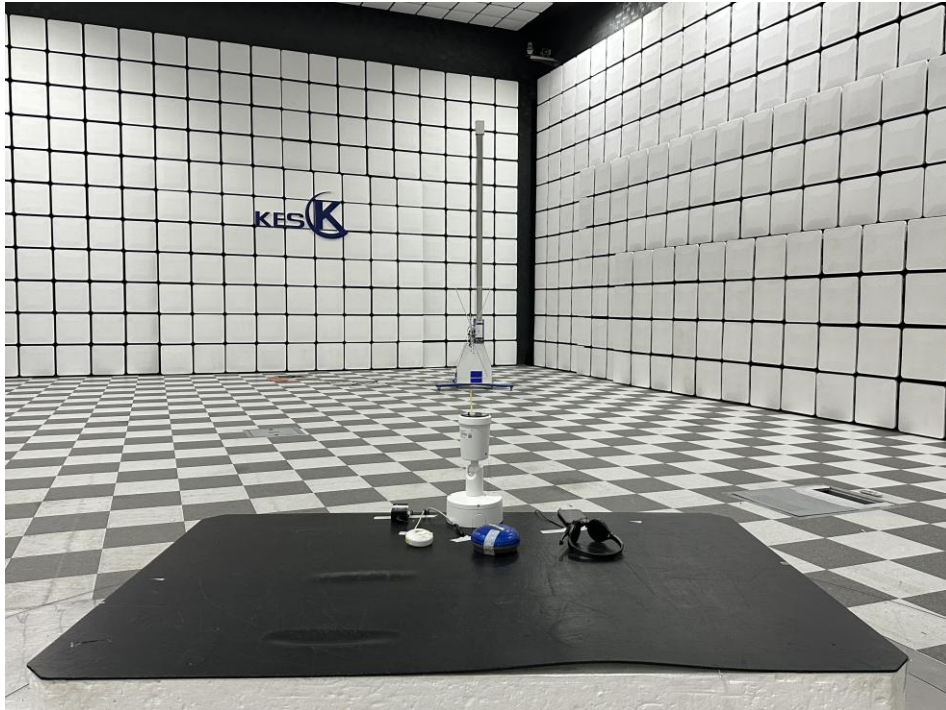
■ mode 2





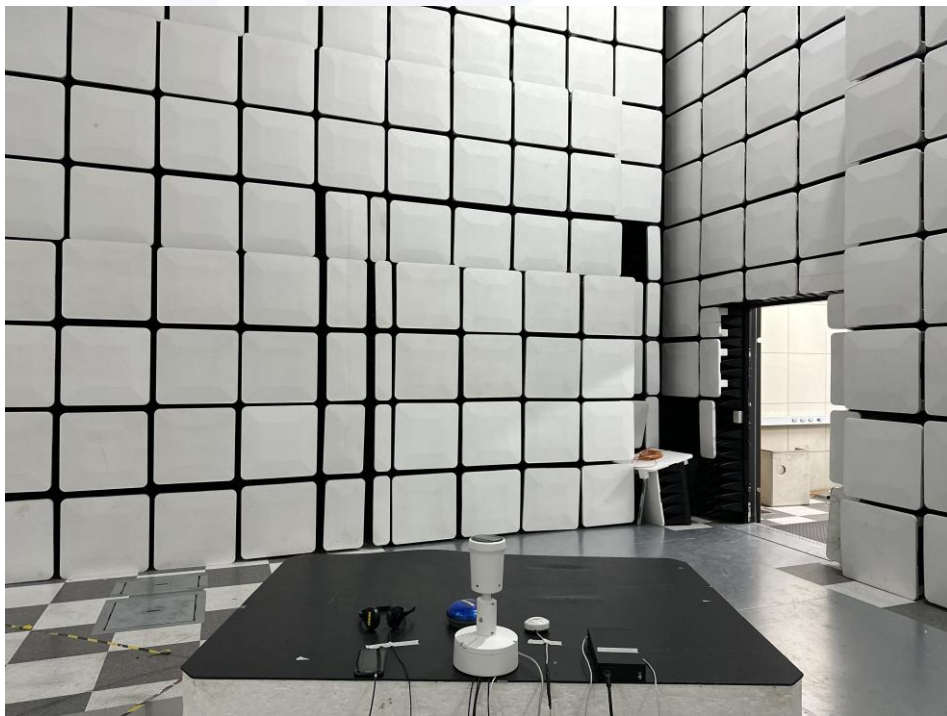
## Radiated Electric Field Emissions(Below 1 GHz)

■ mode 1





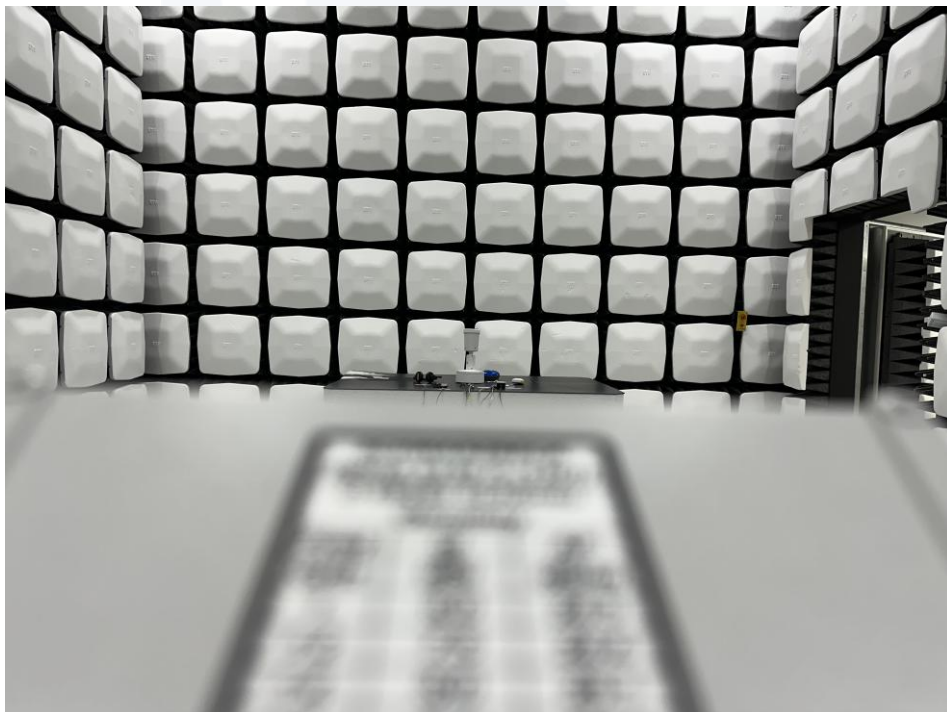
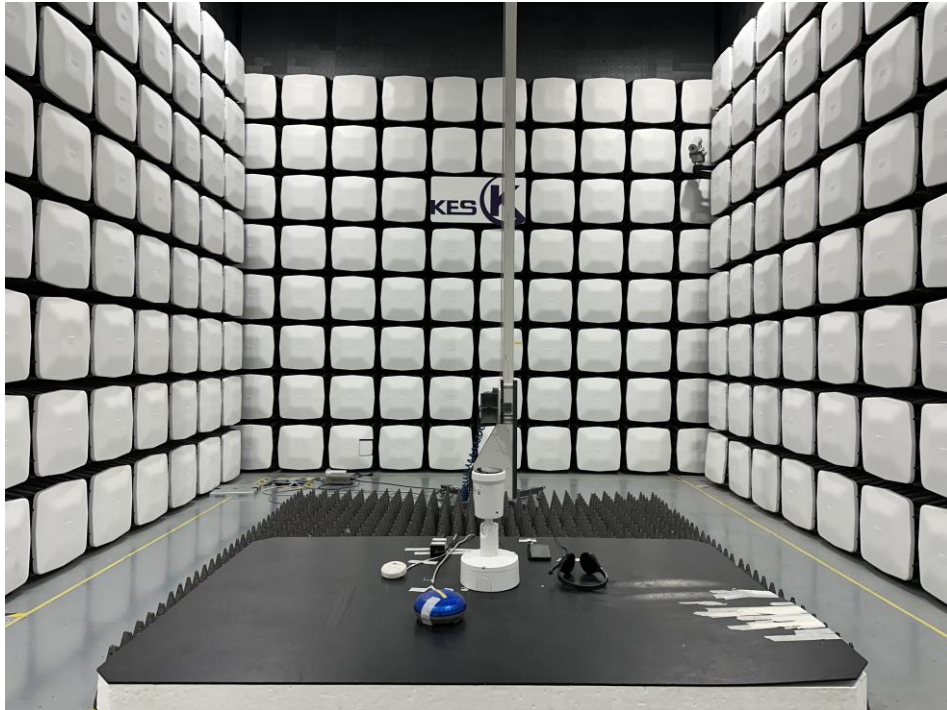
■ mode 2





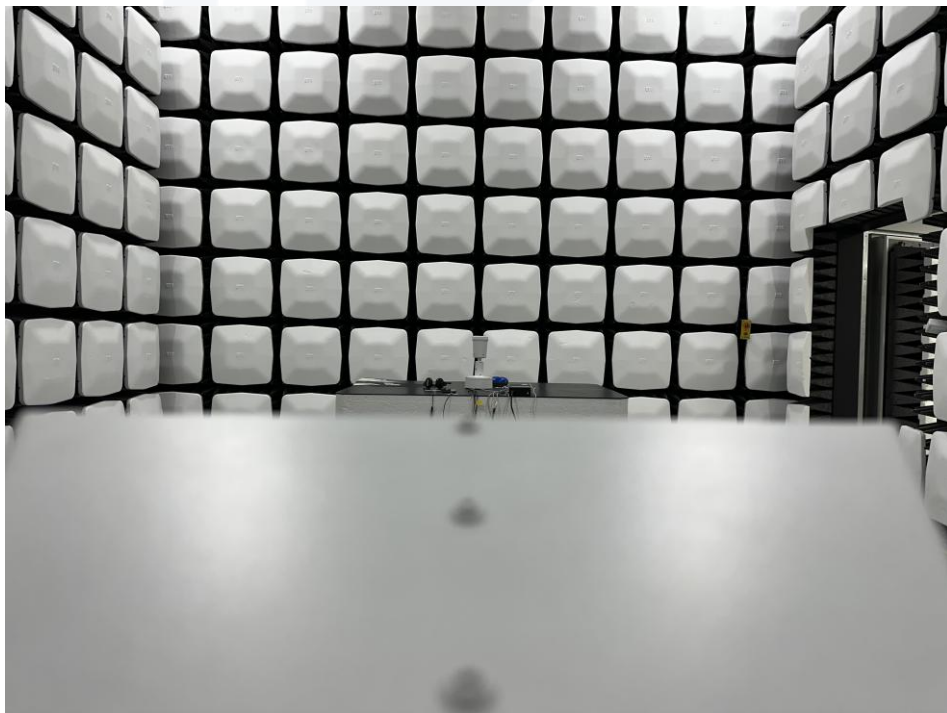
## Radiated Electric Field Emissions(Above 1 GHz)

■ mode 1





■ mode 2





### EUT External Photographs

(Top)



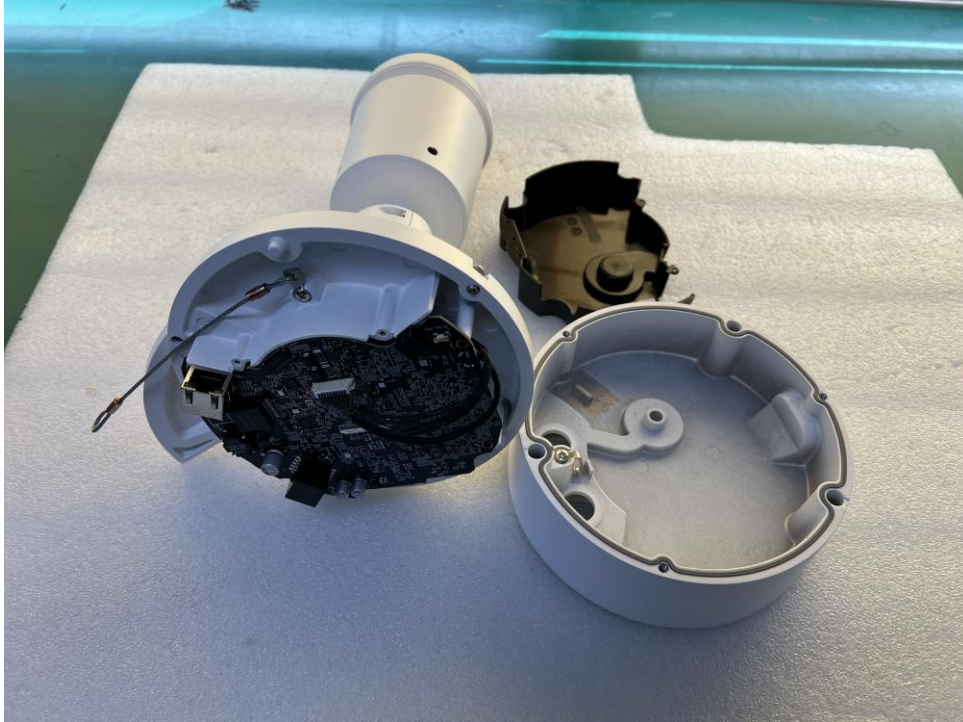
(Bottom)





## EUT Internal Photographs

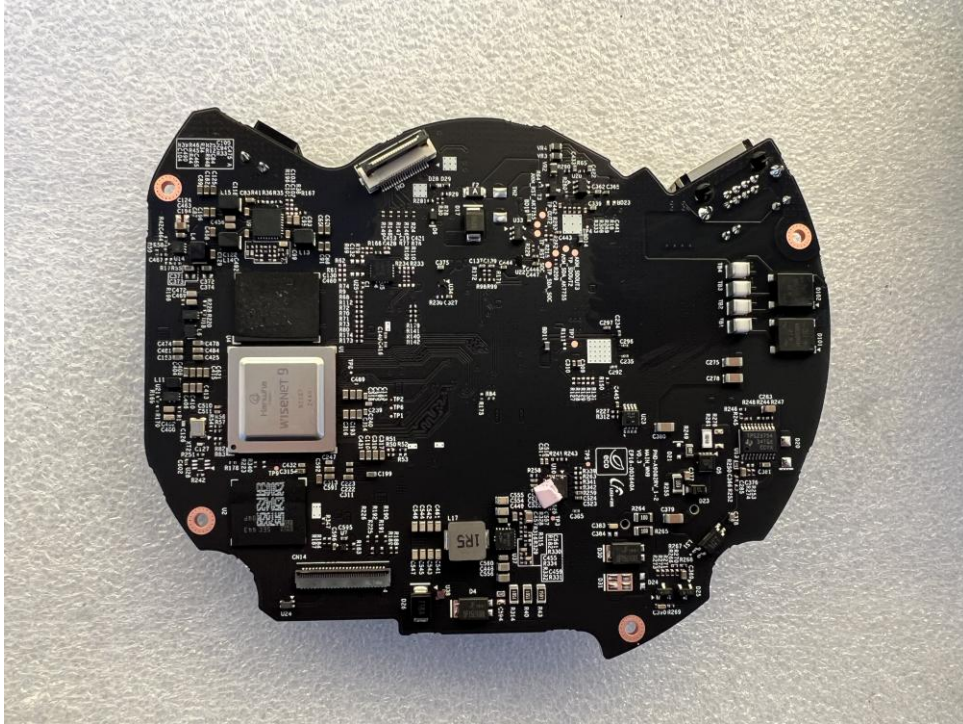
(Internal View)



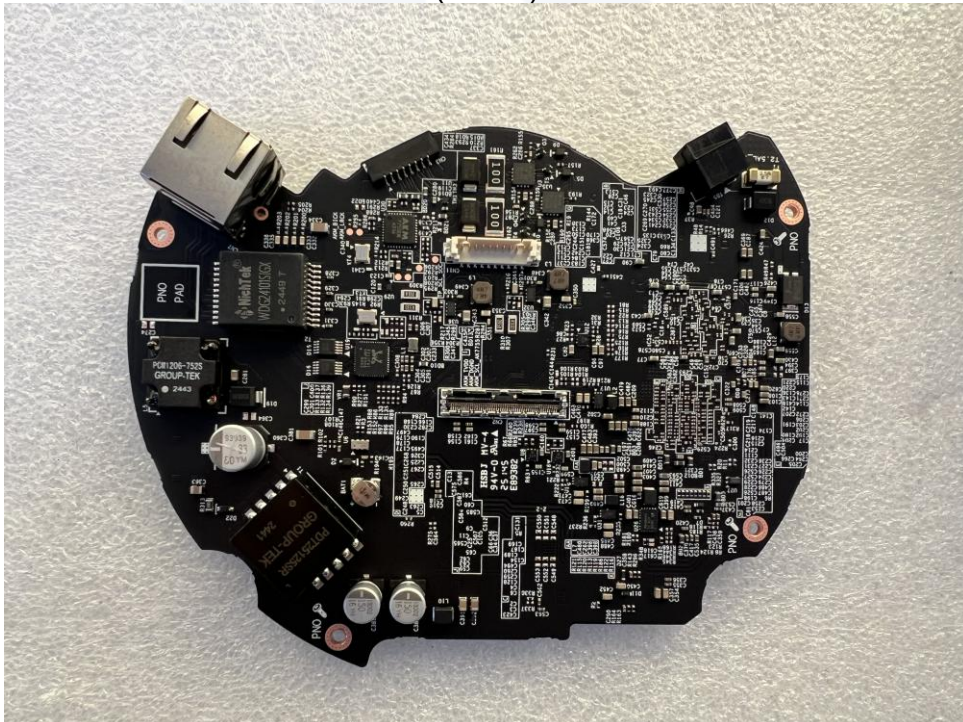


## EUT Internal View – Board 1

(Top)



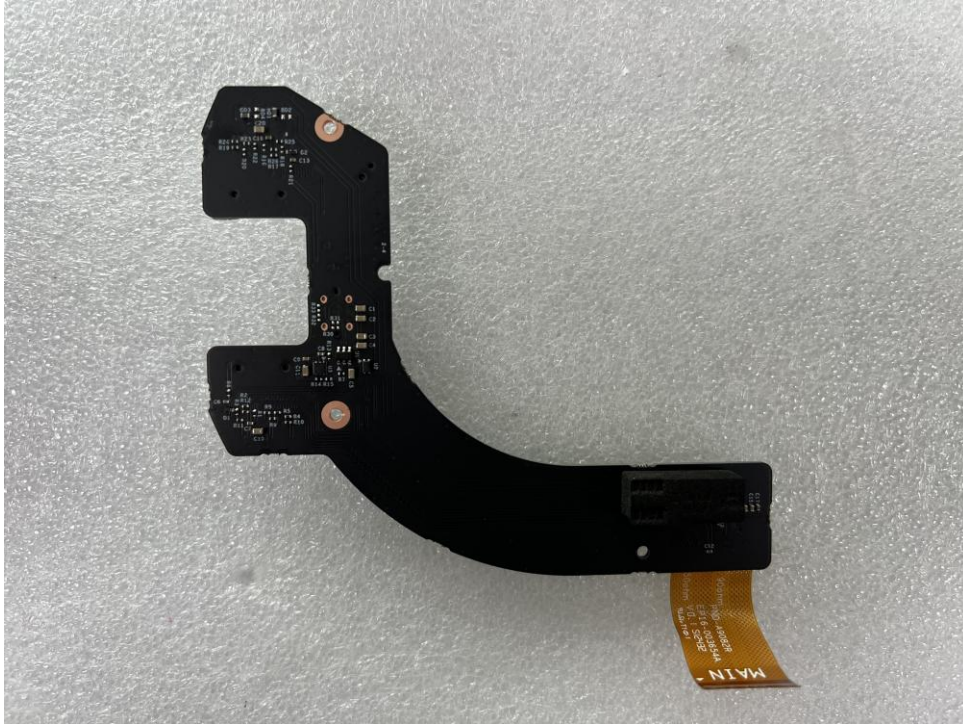
(Bottom)



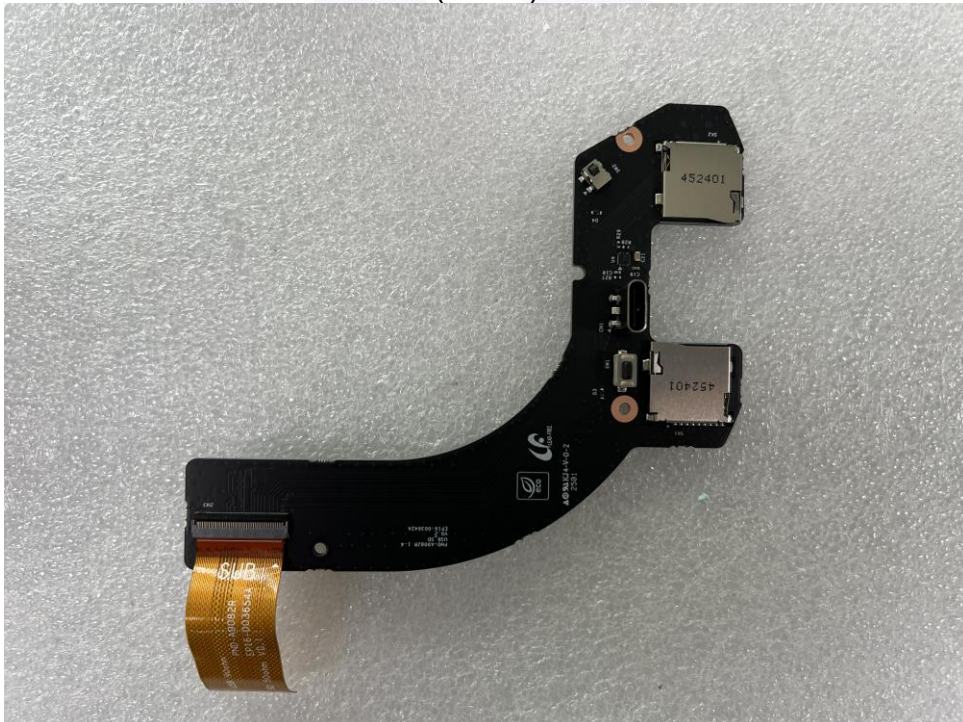


## EUT Internal View – Board 2

(Top)



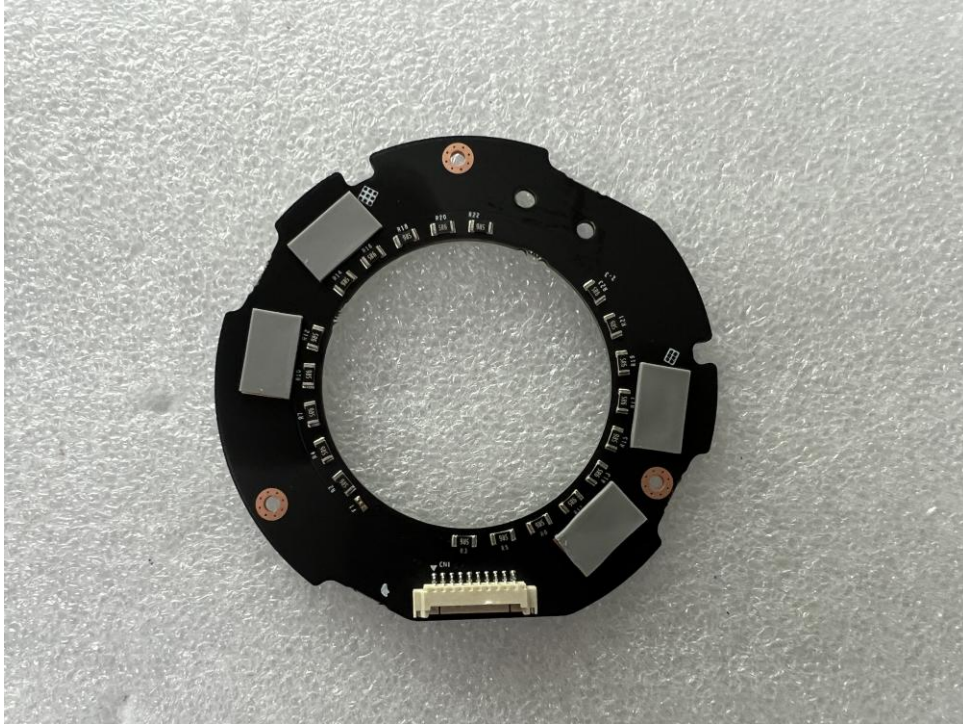
(Bottom)





### EUT Internal View – Board 3

(Top)



(Bottom)



