



EMC TEST REPORT

Test Report No. : KES-EM-21T0864-R1
Date of Issue : Feb. 24, 2023
Product name : NETWORK CAMERA
Model/Type No. : XNV-6010
Variant Model : -
Applicant : Hanwha Vision Co., Ltd
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
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 commune, Bac Ninh city, Bac Ninh province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do,
Korea (Suwon Industrial Complex)
Equipment authorization : **Supplier's Declaration of Conformity**
Date of Receipt : Aug. 27, 2021
Test date : Sep. 01, 2021 ~ Sep. 02, 2021
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Min Seong, Kim
EMC Test Engineer

Reviewed by

Dong-Hun, Jang
EMC Technical Manager

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

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Report No.:

KES-EM-21T0864-R1

Page (2) of (40)

REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Sep. 16, 2021	KES-EM-21T0864	Issued
Feb. 24, 2023	KES-EM-21T0864-R1	Change the Applicant and Manufacturer at the request of the customer

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Report No.:

KES-EM-21T0864-R1

Page (3) of (40)

TABLE OF CONTENTS

1.0	General Product Description.....	4
1.1	Test Voltage & Frequency	7
1.2	Variant Model Differences	7
1.3	Device Modifications	7
1.4	Equipment Under Test.....	7
1.5	Support Equipments	8
1.6	External I/O Cabling	8
1.7	EUT Operating Mode(s)	10
1.8	Configuration.....	11
1.9	Remarks when standards applied	12
1.10	Calibration Details of Equipment Used for Measurement	12
1.11	Test Facility	12
1.12	Laboratory Accreditations and Listings	12
2.0	Test Regulations.....	13
2.1	Conducted Emissions at Mains Power Ports	15
2.2	Radiated Electric Field Emissions(Below 1 GHz)	16
2.3	Radiated Electric Field Emissions(Above 1 GHz)	17
APPENDIX A – TEST DATA.....		18
Conducted Emissions at Mains Power Ports.....		18
Radiated Electric Field Emissions(Below 1 GHz)		22
Radiated Electric Field Emissions(Above 1 GHz)		26
Test Setup Photos and Configuration		28
Conducted Emissions at Mains Power Ports.....		28
Radiated Electric Field Emissions(Below 1 GHz)		30
Radiated Electric Field Emissions(Above 1 GHz)		32
EUT External Photographs		34
EUT Internal Photographs		35

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1.0 General Product Description

Main Specifications of EUT are:

Video	
Imaging Device	1/2.8" 2M CMOS (IMX291)
Total Pixels	1945(H) x 1109(V) 2.16M
Effective Pixels	1945(H) x 1097(V) 2.13M
Scanning System	Progressive Scan
Min. Illumination	Color : 0.07 lux (TBD)
S / N Ratio	50dB
Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation USB : Micro USB type B, 1920 x 1080(TBD), for installation
Lens	
Focal Length (Zoom Ratio)	2.5mm Fixed
Max. Aperture Ratio	F2.0
Angular Field of View	H: 139°, V:73°, D: 167°
Min. Object Distance	0.4m
Focus Control	Manual
Lens Type	Fixed
Mount Type	Board-in type(M12)
Pan / Tilt / Rotate	
Pan / Tilt / Rotate range	0° ~ 354° / 0° ~ 85°(TBD) / 0° ~ 355°
Operational	
IR LED	-
Viewable Length	-
Camera Title	Off / On (Displayed up to 55 characters) - W/W : English/Numeric/Special Characters - China : English/Numeric/Special/Chinese Characters - Common : Multi-line (Max 6), Color (Grey/Green/Red/Blue/Black/White), Transparency, Auto Scale by Resolution
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC(Masking/Dimming), WDR(Seamless transition TBD)
Wide Dynamic Range	150dB(TBD)
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNR5 (2D+3D Noise Filter) (Off / On)
Digital Image Stabilization	Off / On
Defog	Auto(input from fog&Dust detection) / Manual / Off
Motion Detection	Yes(8ea, 4point Polygonal zones)
Privacy Masking	Off / On (32ea, polygonal zones) - Color : Grey/Green/Red/Blue/Black/White - Mosaic

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Report No.:

KES-EM-21T0864-R1

Page (5) of (40)

Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor((included Mercury & Sodium))
Contrast	level adjustment
LDC	On/Off (5 levels with Min/Max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec → TBD)
Digital PTZ	24X, 'Digital PTZ(Preset, Group)
Flip / Mirror	Flip : On/Off Mirror : On/Off Hallway view : 90°/270°
Intelligent Video Analytics	Tampering, Loitering, Directional Detection, Defocus Detection, Fog&Dust Detection, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Motion Detection, Digital Auto Tracking, Sound Classification, Heatmap, People counting, Queue management
Alarm I/O	Input 1ea / Output 1ea
Remote Control Interface	-
RS-485 Protocol	-
Alarm Triggers	Alarm Input, Motion Detection, Intelligent Video Analytics, Network Disconnect
Alarm events	File upload via FTP, E-Mail Notification via E-Mail local storage(SD/SDHC/SDXC) or NAS recording at Event Triggers External output DPTZ preset
Audio In	Selectable (Mic IN/Line IN), Built-in MIC. Max output level : 1Vrms Supply voltage: 2.5VDC(4mA), Input impedance: approx. 2K Ohm
Audio out	Line out, Max output level: 1 Vrms
Fan / Heater	-
Pixel Counter	Support
Network	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Form	H.265/H.264 (MPEG-4 Part 10/AVC) : Main/Baseline/High , Motion JPEG
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x450, 720x576, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264 : Max. 60fps at all resolutions Motion JPEG : Max. 30fps
Smart Codec	Manual Mode (area-based : 5EA)
Video Quality Adjustment	H.264/H.265 : Target Bitrate Level Control MJPEG : Target Bitrate Level Control
Bitrate Control Method	H.264/H.265 : CBR or VBR, ※ WiseStream MJPEG : VBR
Streaming Capability	Multiple Streaming (Up to 10 Profiles)
Audio Compression Form	G.711 u-law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 8/16/32/48KHz
Audio Communication	Bi-directional (2-Way)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour

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Report No.:

KES-EM-21T0864-R1

Page (6) of (40)

Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication (EAP-TLS, EAP-LEAP) - Streaming Encryption
Streaming Method	Streaming Method
Max. User Access	20 users at Unicast Mode(TBD)
Edge Storage	SD/SDHC/SDXC 2slot (up to 512 GB) - Continuous recording(1'st slot to 2'nd slot) - (TBD) Redundant recording - Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded. NAS(Network Attached Storage) Local PC for Instant Recording
Application Programming	ONVIF Profile S/G SUNAPI(HTTP API) Open Platform
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Danish, Portuguese, Czech, Polish, Turkish, Rumanian, Serbian, Dutch, Croatia, Hungary, Greek, Norsk, Finnish
Web Viewer	Supported OS: Windows 7, 8, 10, Mac OS X 10.8, 10.9, 10.10, 10.11 Non-plugin Webviewer Supported Browser: Google Chrome 47, MS Edge 20 Support Codec : Video : H.264, MJPEG (MAX 1M 15FPS) Audio : G.711 Plug-in Webviewer Supported Browser : MS Explore 11 , Mozilla Firefox 43 , Apple Safari 9 * Mac OS X only
Central Management Soft	SmartViewer, SSM
Environmental	
Operating Temperature / Humidity	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH *Start up should be done at above -20°C
Storage Temperature / Humidity	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP67(TBD), IP66
Vandal Resistance	IK10
Electrical	
Input Voltage / Current	DC12V,PoE(IEEE802.3af,Class3)
Power Consumption	TBD
Mechanical	
Color / Material	Ivory / Metal
Dimension (WxHxD)	φ120 x H92
Weight	TBD

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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

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	XNV-6010	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

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Report No.:

KES-EM-21T0864-R1

Page (8) of (40)

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
AC/DC Adapter	2ACB022F	-	Channel Well Technology (Guangzhou) Co., Ltd.	-
PoE Injector	PSE156G	-	Ubiqunet	-
Notebook	P98F004	21599158359	DELL INC.	-
Notebook Adapter	LA240PM190	-	LITE-ON TECHNOLOGY (CHANGZHOU)CO.,LTD.	-
Speaker	BR1000A Cuve Black 2	-	DONGGUAN EDIFIER TECHNOLOGY Co., Ltd	-
MIC	MP1000	-	-	-
Alarm Relay	-	-	-	-
Alarm Adapter	TY-2000	-	Taeyoung Electronics	-
Alarm	SLE-0001 DO	-	-	-
Button Alarm	-	-	-	-
Micro SD Card	-	-	SanDisk	4 GB
Smart Phone	SM-N950N	R39JB0C3FB	Samsung Eletronics	-

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Report No.:

KES-EM-21T0864-R1

Page (9) of (40)

1.6 External I/O Cabling

■ DC Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	DC 12 V	AC/DC Adapter	DC 12 V	1.0	U
	RJ-45	Notebook	RJ-45	3.0	U
	Audio Out	Speaker	Line-Out (3.5 mm)	1.4	U
	Audio In	MIC	XLR	2.0	U
	Alarm Out	Alarm Relay	Alarm In	3.0	U
	Alarm In	Button Alarm	Alarm Out	3.0	U
	SLOT	Micro SD Card	SLOT	-	-
Notebook	DC Jack	Notebook Adapter	DC Jack	2.0	U
	3.5 mm	Smart Phone	3.5 mm	1.0	U
Alarm Relay	DC 12 V	Alarm Adapter	DC 12 V	2.0	U
	2 Pin	Alarm	2 Pin	0.2	U

* Unshielded=U, Shielded=S

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■ PoE Mode

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	RJ-45 (PoE)	PoE Injector	RJ-45 (PoE)	3.0	U
	Audio Out	Speaker	Line-Out (3.5 mm)	1.4	U
	Audio In	MIC	XLR	2.0	U
	Alarm Out	Alarm Relay	Alarm In	3.0	U
	Alarm In	Button Alarm	Alarm Out	3.0	U
	SLOT	Micro SD Card	SLOT	-	-
Notebook	RJ-45 (DATA)	PoE Injector	RJ-45 (DATA)	2.0	U
	DC Jack	Notebook Adapter	DC Jack	2.0	U
	3.5 mm	Smart Phone	3.5 mm	1.0	U
Alarm Relay	DC 12 V	Alarm Adapter	DC 12 V	2.0	U
	2 Pin	Alarm	2 Pin	0.2	U

* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

Test Mode	operating
Operation	- Checked the video output of the EUT by accessing the web viewer from the laptop and checked whether the network function is working normally while performing a ping test. - By playing the color bar on the Smart Phone, check whether the sound is normally output from the speaker and set the alarm to the always-on state to check whether the alarm operates continuously. - After the test, checked whether the video and audio stored in the Micro SD card are normal.

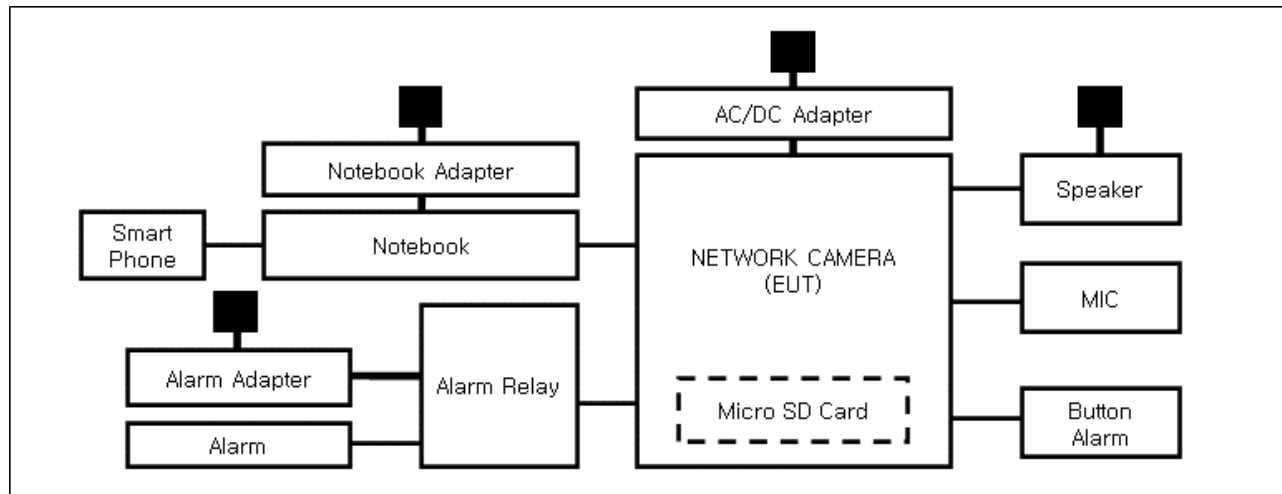
EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd

1.8 Configuration

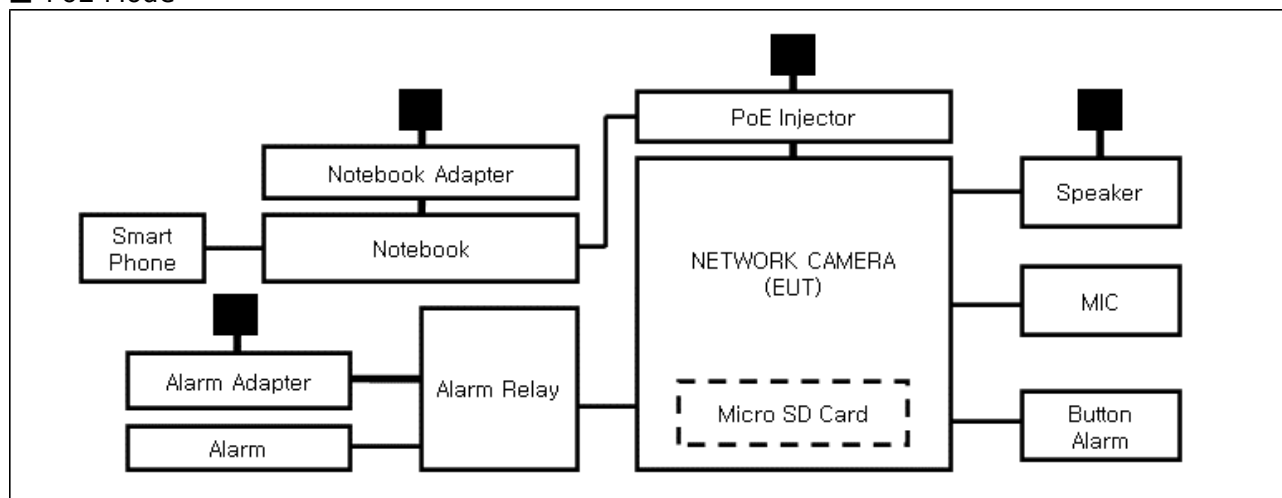
■ AC Main

□ DC Main

■ DC Mode



■ PoE Mode



1.9 Remarks when standards applied

USB Port, VIDEO Port are for administrator use only and excluded from testing.

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) 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:

☐ **EMC – Directive 2014/30/EU**

☐ EN 61000-6-3:2011

☐ EN 61000-6-1:2007

☐ EN 61000-6-4:2007 +A1:2011

☐ EN 61000-6-2:2005

☐ EN 55011:2007 +A1:2010

☐ Group 1

☐ Group 2

☐ Class A

☐ Class B

☐ EN 55014-1:2006 +A2:2011

☐ EN 55014-2:1997 +A2:2008

☐ EN 55015:2013

☐ EN 55032:2015

☐ Class A

☐ Class B

☐ EN 55024:2010

☐ EN 50130-4:2011 +A1:2014

☐ EN 61000-3-2:2014

☐ EN 61000-3-3:2013

☐ EN 61326-1:2013

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Report No.:

KES-EM-21T0864-R1

Page (14) of (40)

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|---|---|----------------------------------|
| ☐ VCCI-CISPR 32:2016 | ☐ Class A | ☐ Class B |
| ☐ AS/NZS CISPR32:2015 | ☐ Class A | ☐ Class B |
| ☒ 47 CFR Part 15, Subpart B | | |
| ☐ CISPR 22:2009 +A1:2010 | ☐ Class A | ☐ Class B |
| ☒ ANSI C63.4-2017 | ☒ Class A | ☐ Class B |
| ☒ IC Regulation ICES-003 Issue 7 | | |
| ☒ CAN/CSA CISPR 32-17 | ☒ Class A | ☐ Class B |
| ☐ ANSI C63.4-2017 | ☐ Class A | ☐ Class B |
| ☐ RE- Directive 2014/53/EU | | |
| ☐ EN 301 489-1 V1.9.2 | | |
| ☐ Equipment for fixed use | | |
| ☐ Equipment for vehicular use | | |
| ☐ Equipment for portable use | | |
| ☐ EN 301 489-3 V1.6.1 | | |
| ☐ EN 301 489-17 V2.2.1 | | |
| ☐ EN 60945:2002 | | |

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2.1 Conducted Emissions at Mains Power Ports

Test Date

Sep. 01, 2021

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	01, 15, 2022
☒	LISN	ENV216	R & S	101787	12, 29, 2021
☒	LISN	ESH2-Z5	R & S	100450	12, 29, 2021
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 29, 2021

Test Conditions

Temperature: (24,5 ± 0,1) °C

Relative Humidity: (50,4 ± 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 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Sep. 01, 2021

Test Location

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

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	04, 01, 2022
☒	AMPLIFIER	SCU 01	R & S	100603	11, 25, 2021
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
☒	ATTENUATOR	8491A	HP	32173	03, 10, 2022

Test Conditions

Temperature: (24,5 ± 0,2) °C

Relative Humidity: (49,2 ± 0,3) % 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

Sep. 02, 2021

Test Location

SEMI ANECHOIC CHAMBER #4

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	04, 01, 2022
☒	PREAMPLIFIER	8449B	AGILENT	3008A01742	03, 10, 2022
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 14, 2021

Test Conditions

Temperature: (24,7 ± 0,3) °C

Relative Humidity: (49,3 ± 0,5) % 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

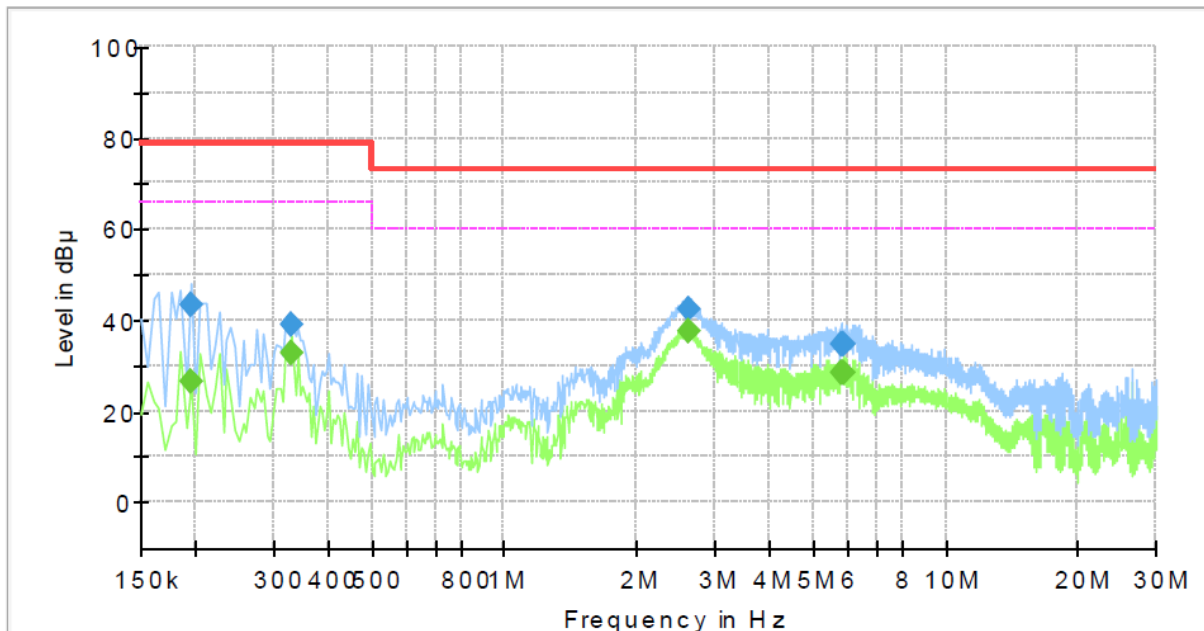
Conducted Emissions at Mains Power Ports

■ DC Mode

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XNV-6010
Phase:	H
Mode:	DC
Operator Name:	KES



Final Result

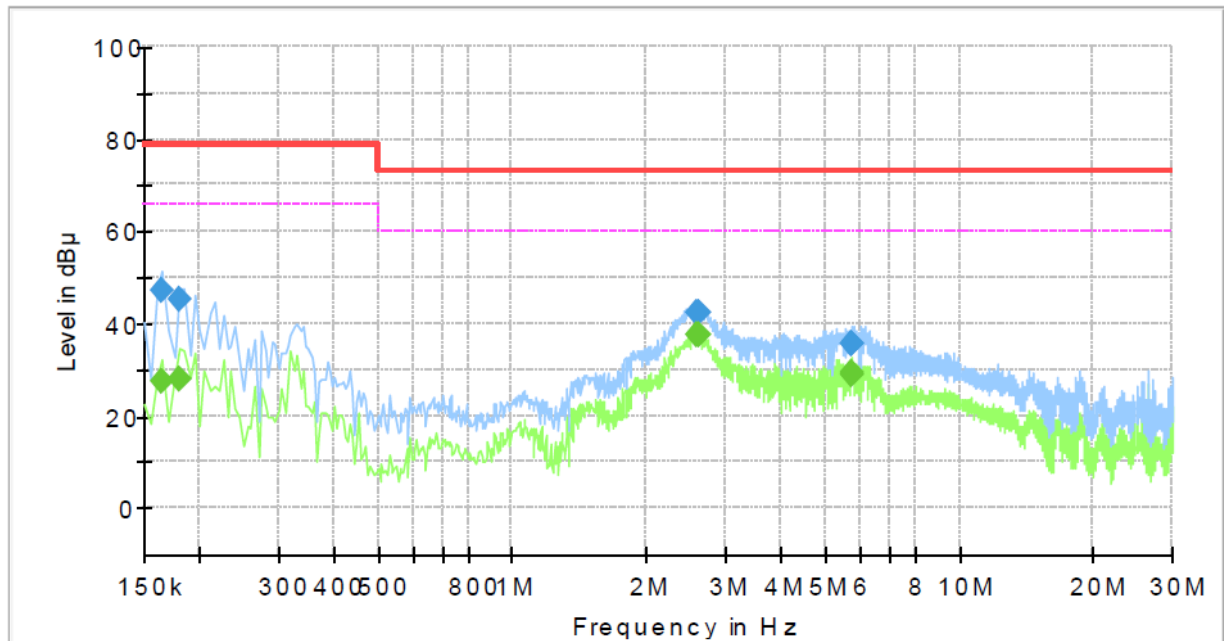
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.195000	---	26.50	66.00	39.50	1000.0	9.000	L1	19.5
0.195000	43.26	---	79.00	35.74	1000.0	9.000	L1	19.5
0.330000	---	32.56	66.00	33.44	1000.0	9.000	L1	19.6
0.330000	39.14	---	79.00	39.86	1000.0	9.000	L1	19.6
2.605000	---	37.73	60.00	22.27	1000.0	9.000	L1	20.2
2.605000	42.24	---	73.00	30.76	1000.0	9.000	L1	20.2
5.785000	---	28.54	60.00	31.46	1000.0	9.000	L1	19.6
5.785000	34.79	---	73.00	38.21	1000.0	9.000	L1	19.6
5.850000	---	28.46	60.00	31.54	1000.0	9.000	L1	19.6
5.850000	34.77	---	73.00	38.23	1000.0	9.000	L1	19.6

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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XNV-6010
Phase:	N
Mode:	DC
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165000	---	27.34	66.00	38.66	1000.0	9.000	N	19.4
0.165000	47.21	---	79.00	31.79	1000.0	9.000	N	19.4
0.180000	---	27.98	66.00	38.02	1000.0	9.000	N	19.4
0.180000	45.15	---	79.00	33.85	1000.0	9.000	N	19.4
2.575000	---	37.55	60.00	22.45	1000.0	9.000	N	20.3
2.575000	42.12	---	73.00	30.88	1000.0	9.000	N	20.3
2.605000	---	37.62	60.00	22.38	1000.0	9.000	N	20.2
2.605000	42.19	---	73.00	30.81	1000.0	9.000	N	20.2
5.725000	---	29.09	60.00	30.91	1000.0	9.000	N	19.6
5.725000	35.57	---	73.00	37.43	1000.0	9.000	N	19.6
5.750000	---	29.18	60.00	30.82	1000.0	9.000	N	19.6
5.750000	35.66	---	73.00	37.34	1000.0	9.000	N	19.6

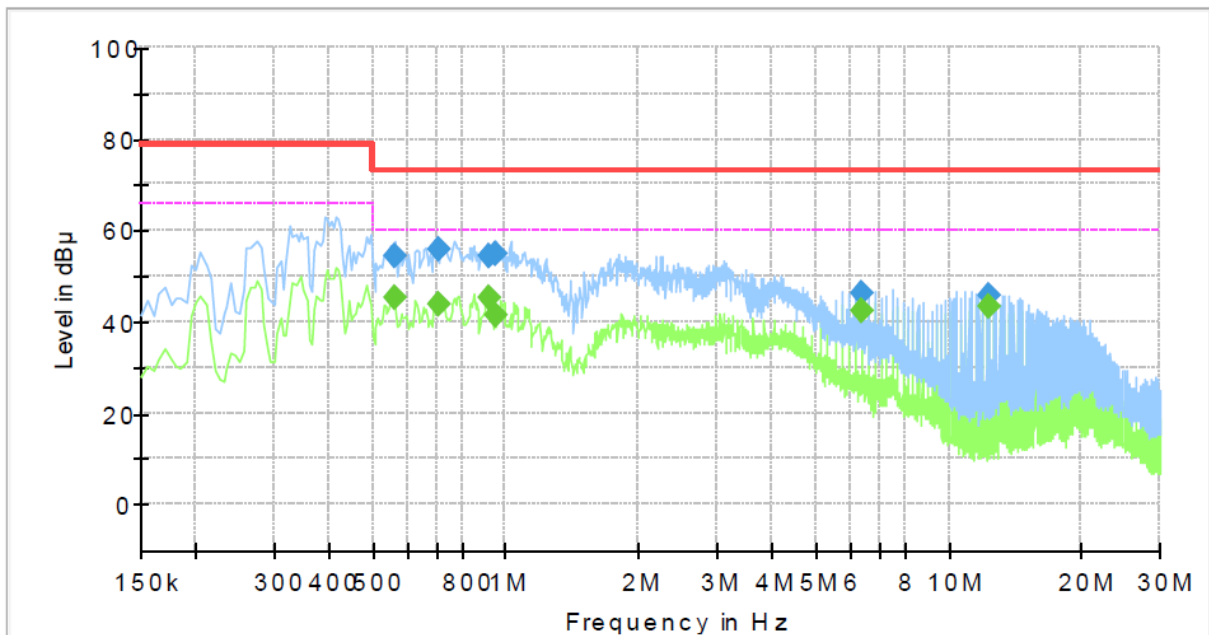
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PoE Mode
HOT LINE
Common Information

Test Description:	Conducted Emission
Model No.:	XNV-6010
Phase:	H
Mode:	PoE
Operator Name:	KES


Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.560000	---	45.17	60.00	14.83	1000.0	9.000	L1	19.8
0.560000	54.40	---	73.00	18.60	1000.0	9.000	L1	19.8
0.705000	---	43.61	60.00	16.39	1000.0	9.000	L1	19.9
0.705000	55.86	---	73.00	17.14	1000.0	9.000	L1	19.9
0.915000	---	45.43	60.00	14.57	1000.0	9.000	L1	20.1
0.915000	54.39	---	73.00	18.61	1000.0	9.000	L1	20.1
0.955000	---	41.52	60.00	18.48	1000.0	9.000	L1	20.1
0.955000	54.67	---	73.00	18.33	1000.0	9.000	L1	20.1
6.390000	---	42.55	60.00	17.45	1000.0	9.000	L1	19.6
6.390000	46.33	---	73.00	26.67	1000.0	9.000	L1	19.6
12.350000	---	43.13	60.00	16.87	1000.0	9.000	L1	20.0
12.350000	45.91	---	73.00	27.09	1000.0	9.000	L1	20.0

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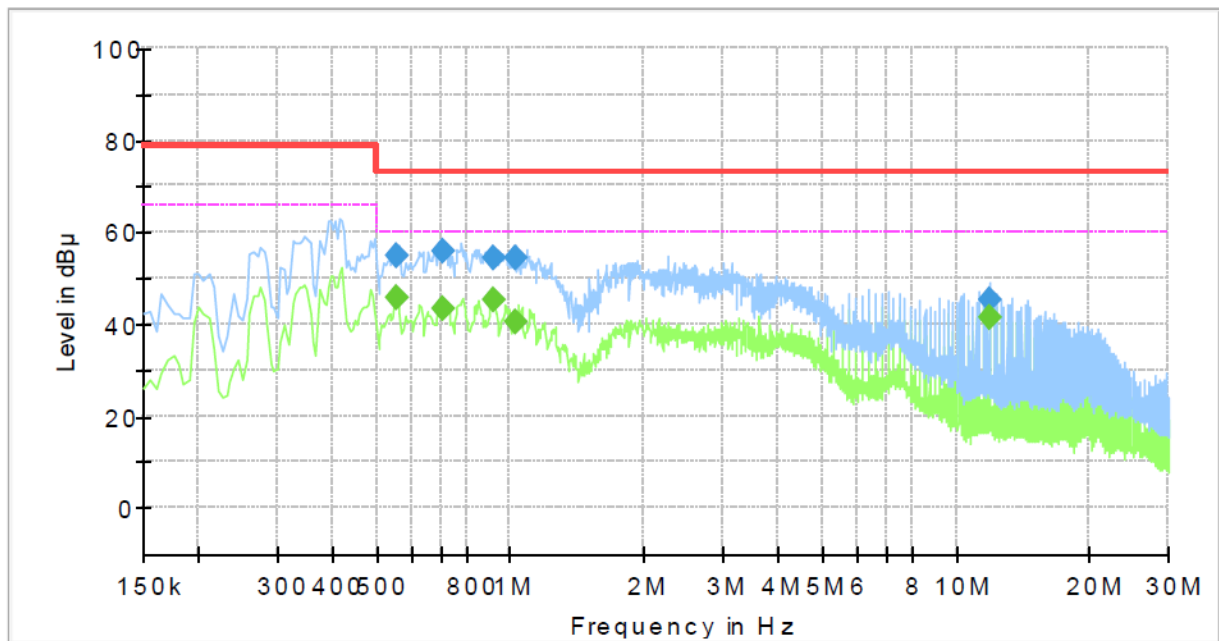
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Page (21) of (40)

NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Model No.: XNV-6010
Phase: N
Mode: PoE
Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.555000	---	45.76	60.00	14.24	1000.0	9.000	N	19.8
0.555000	54.89	---	73.00	18.11	1000.0	9.000	N	19.8
0.705000	---	43.36	60.00	16.64	1000.0	9.000	N	19.9
0.705000	55.68	---	73.00	17.32	1000.0	9.000	N	19.9
0.915000	---	45.30	60.00	14.70	1000.0	9.000	N	20.1
0.915000	54.25	---	73.00	18.75	1000.0	9.000	N	20.1
1.025000	---	40.44	60.00	19.56	1000.0	9.000	N	20.1
1.025000	54.42	---	73.00	18.58	1000.0	9.000	N	20.1
11.925000	---	41.55	60.00	18.45	1000.0	9.000	N	20.0
11.925000	45.28	---	73.00	27.72	1000.0	9.000	N	20.0

◆ 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))

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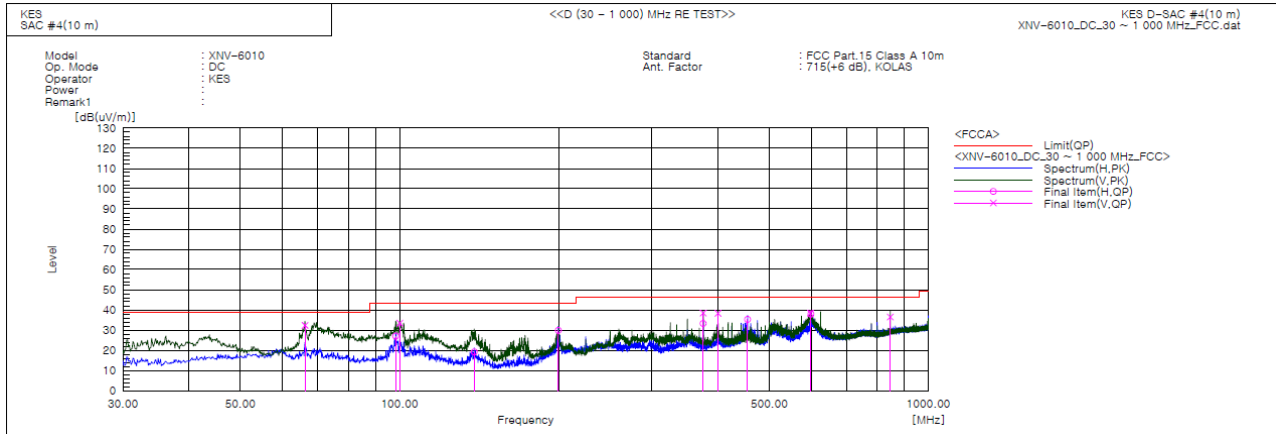
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Page (22) of (40)

Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

■ DC Mode



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	66.254	V	56.1	-23.7	32.4	39.0	6.6	134.0	4.0	
2	98.385	H	49.7	-22.7	27.0	43.5	16.5	374.0	15.0	
3	100.083	V	56.0	-22.5	33.5	43.5	10.0	145.0	97.0	
4	138.398	H	44.6	-25.4	19.2	43.5	24.3	400.0	170.0	
5	199.629	H	50.7	-20.8	29.9	43.5	13.6	364.0	317.0	
6	374.956	V	53.2	-14.8	38.4	46.5	8.1	100.0	196.0	
7	374.956	H	48.1	-14.8	33.3	46.5	13.2	327.0	34.0	
8	400.055	V	52.5	-14.2	38.3	46.5	8.2	102.0	162.0	
9	454.860	H	48.2	-12.9	35.3	46.5	11.2	335.0	185.0	
10	597.693	V	46.8	-8.4	38.4	46.5	8.1	181.0	192.0	
11	599.390	H	46.4	-8.4	38.0	46.5	8.5	400.0	220.0	
12	846.134	V	41.6	-5.1	36.5	46.5	10.0	100.0	166.0	

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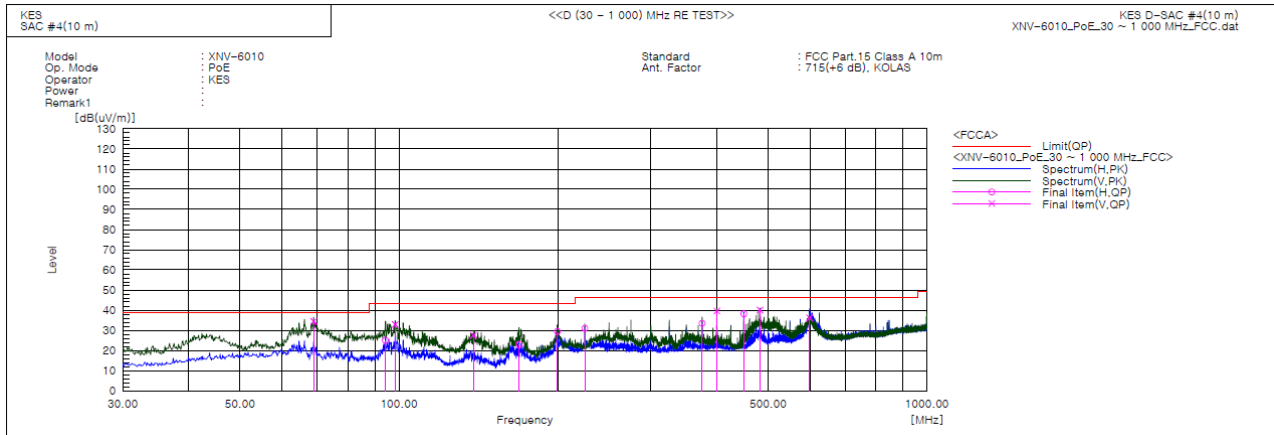
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Page (23) of (40)

PoE Mode



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	68.921	V	59.0	-24.5	34.5	39.0	4.5	127.0	130.0	
2	94.263	H	48.6	-23.6	25.0	43.5	18.5	400.0	189.0	
3	98.385	V	55.6	-22.7	32.9	43.5	10.6	141.0	122.0	
4	138.398	V	53.0	-25.4	27.6	43.5	15.9	132.0	15.0	
5	168.710	H	47.1	-24.1	23.0	43.5	20.5	400.0	323.0	
6	199.386	H	50.2	-20.8	29.4	43.5	14.1	378.0	111.0	
7	224.970	H	51.0	-20.0	31.0	46.5	15.5	400.0	263.0	
8	374.956	H	48.3	-14.8	33.5	46.5	13.0	277.0	178.0	
9	400.055	V	53.8	-14.2	39.6	46.5	6.9	100.0	354.0	
10	450.010	H	51.3	-13.1	38.2	46.5	8.3	400.0	25.0	
11	482.626	V	52.2	-12.1	40.1	46.5	6.4	124.0	212.0	
12	598.905	V	44.6	-8.4	36.2	46.5	10.3	176.0	167.0	

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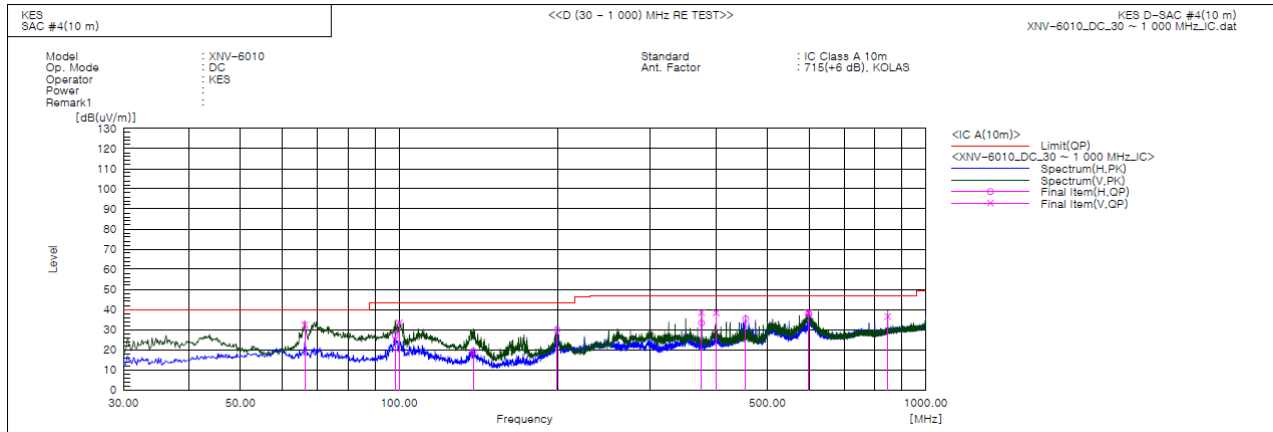
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Page (24) of (40)

- IC Regulation ICES-003 Issue 7

■ DC Mode



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	66.254	V	56.1	-23.7	32.4	40.0	7.6	134.0	4.0	
2	98.385	H	49.7	-22.7	27.0	43.5	16.5	374.0	15.0	
3	100.083	V	56.0	-22.5	33.5	43.5	10.0	145.0	97.0	
4	138.398	H	44.6	-25.4	19.2	43.5	24.3	400.0	170.0	
5	199.629	H	50.7	-20.8	29.9	43.5	13.6	364.0	317.0	
6	374.956	V	53.2	-14.8	38.4	47.0	8.6	100.0	196.0	
7	374.956	H	48.1	-14.8	33.3	47.0	13.7	327.0	34.0	
8	400.055	V	52.5	-14.2	38.3	47.0	8.7	102.0	162.0	
9	454.860	H	48.2	-12.9	35.3	47.0	11.7	335.0	185.0	
10	597.693	V	46.8	-8.4	38.4	47.0	8.6	181.0	192.0	
11	599.390	H	46.4	-8.4	38.0	47.0	9.0	400.0	220.0	
12	846.134	V	41.6	-5.1	36.5	47.0	10.5	100.0	166.0	

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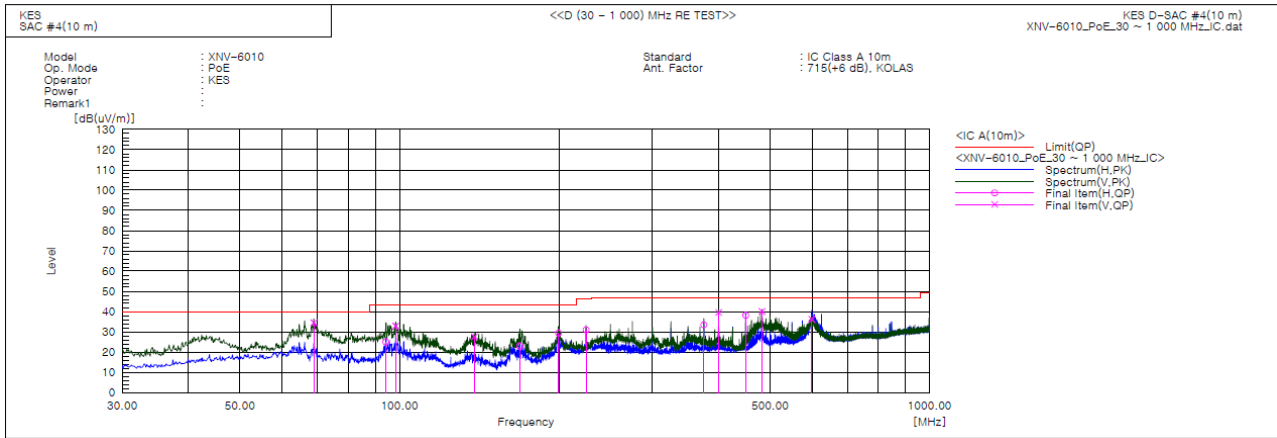
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Page (25) of (40)

PoE Mode



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	68.921	V	59.0	-24.5	34.5	40.0	5.5	127.0	130.0	
2	94.263	H	48.6	-23.6	25.0	43.5	18.5	400.0	189.0	
3	98.385	V	55.6	-22.7	32.9	43.5	10.6	141.0	122.0	
4	138.398	V	53.0	-25.4	27.6	43.5	15.9	132.0	15.0	
5	168.710	H	47.1	-24.1	23.0	43.5	20.5	400.0	323.0	
6	199.386	H	50.2	-20.8	29.4	43.5	14.1	378.0	111.0	
7	224.970	H	51.0	-20.0	31.0	46.4	15.4	400.0	263.0	
8	374.956	H	48.3	-14.8	33.5	47.0	13.5	277.0	178.0	
9	400.055	V	53.8	-14.2	39.6	47.0	7.4	100.0	354.0	
10	450.010	H	51.3	-13.1	38.2	47.0	8.8	400.0	25.0	
11	482.626	V	52.2	-12.1	40.1	47.0	6.9	124.0	212.0	
12	598.905	V	44.6	-8.4	36.2	47.0	10.8	176.0	167.0	

◆ Calculation – SAC #4(10 m)

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

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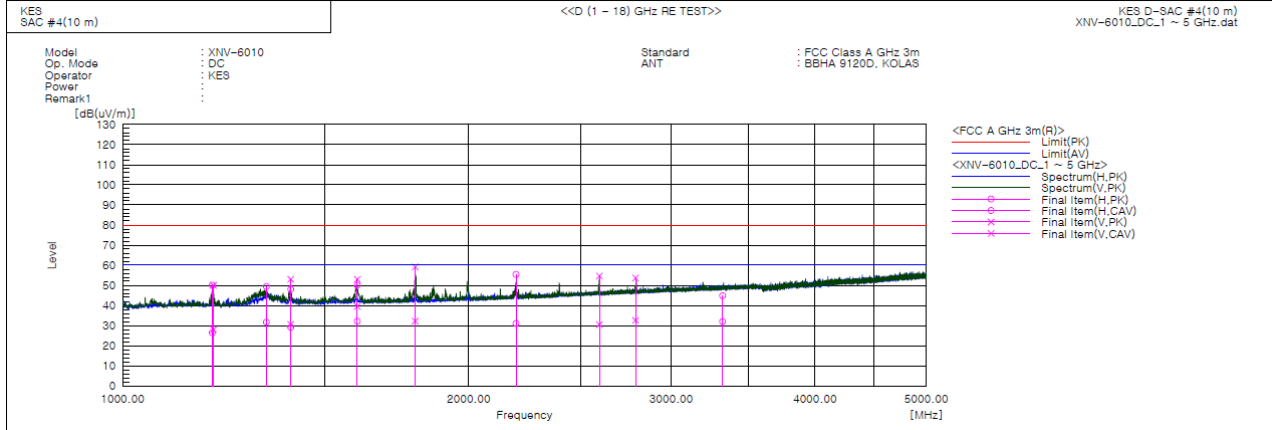
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Page (26) of (40)

Radiated Electric Field Emissions(Above 1 GHz)

■ DC Mode



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1196.480	H	52.9	29.3	-2.8	50.1	26.5	80.0	60.0	29.9	33.5	347.0	335.0	
2	1199.250	V	52.8	30.8	-2.8	50.0	28.0	80.0	60.0	30.0	32.0	114.0	357.0	
3	1333.700	H	51.4	33.6	-1.9	49.5	31.7	80.0	60.0	30.5	28.3	278.0	185.0	
4	1399.785	V	54.5	32.1	-1.5	53.0	30.6	80.0	60.0	27.0	29.4	100.0	328.0	
5	1400.250	H	49.6	30.6	-1.5	48.1	29.1	80.0	60.0	31.9	30.9	387.0	257.0	
6	1599.990	H	50.5	32.6	-0.4	50.1	32.2	80.0	60.0	29.9	27.8	400.0	345.0	
7	1600.020	V	53.4	40.0	-0.4	53.0	39.6	80.0	60.0	27.0	20.4	100.0	264.0	
8	1795.900	V	58.6	31.7	0.6	59.2	32.3	80.0	60.0	20.8	27.7	109.0	319.0	
9	2198.460	H	52.7	28.4	2.7	55.4	31.1	80.0	60.0	24.6	28.9	299.0	13.0	
10	2597.755	V	49.8	25.6	4.9	54.7	30.5	80.0	60.0	25.3	29.5	135.0	66.0	
11	2792.850	V	47.9	26.8	5.8	53.7	32.6	80.0	60.0	26.3	27.4	200.0	264.0	
12	3324.700	H	36.9	24.0	8.0	44.9	32.0	80.0	60.0	35.1	28.0	400.0	228.0	

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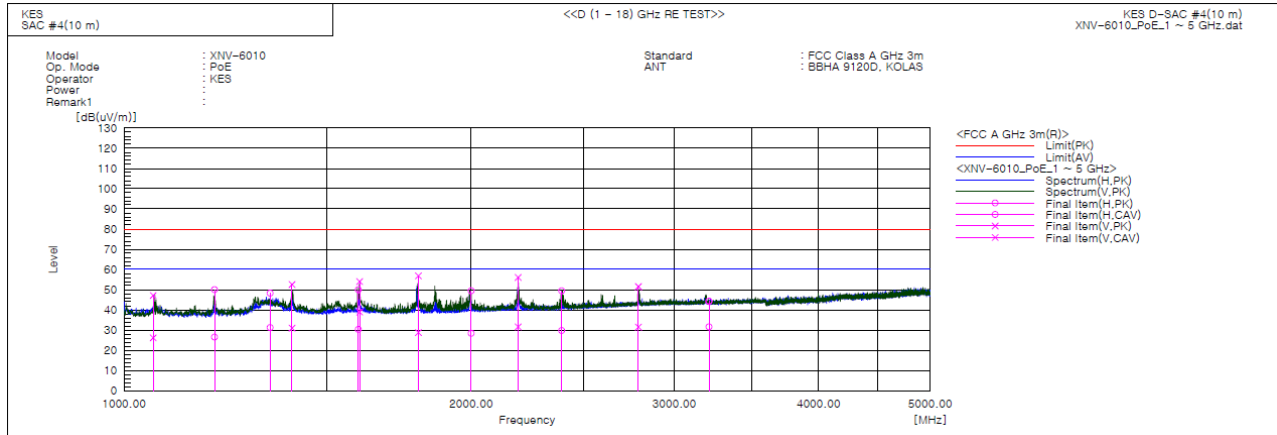
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KES-EM-21T0864-R1

Page (27) of (40)

PoE Mode



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1059.770	V	51.0	30.0	-3.8	47.2	26.2	80.0	60.0	32.8	33.8	142.0	17.0	
2	1197.875	H	52.8	29.4	-2.8	50.0	26.6	80.0	60.0	30.0	33.4	367.0	111.0	
3	1338.500	H	50.2	33.2	-1.9	48.3	31.3	80.0	60.0	31.7	28.7	363.0	311.0	
4	1398.245	V	54.2	32.6	-1.6	52.6	31.0	80.0	60.0	27.4	29.0	131.0	343.0	
5	1596.190	H	50.4	30.7	-0.4	50.0	30.3	80.0	60.0	30.0	29.7	400.0	347.0	
6	1600.130	V	54.5	39.3	-0.4	54.1	38.9	80.0	60.0	25.9	21.1	116.0	84.0	
7	1799.555	V	56.4	28.1	0.6	57.0	28.7	80.0	60.0	23.0	31.3	100.0	355.0	
8	1999.465	H	47.9	26.8	1.6	49.5	28.4	80.0	60.0	30.5	31.6	331.0	15.0	
9	2195.595	V	53.4	28.9	2.7	56.1	31.6	80.0	60.0	23.9	28.4	102.0	345.0	
10	2395.795	H	45.7	26.0	3.8	49.5	29.8	80.0	60.0	30.5	30.2	400.0	231.0	
11	2792.035	V	45.8	25.7	5.8	51.6	31.5	80.0	60.0	28.4	28.5	100.0	221.0	
12	3214.750	H	36.7	24.0	7.6	44.3	31.6	80.0	60.0	35.7	28.4	372.0	301.0	

◆ 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 - Preamp Factor), Margin: Margin value

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Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

■ DC Mode



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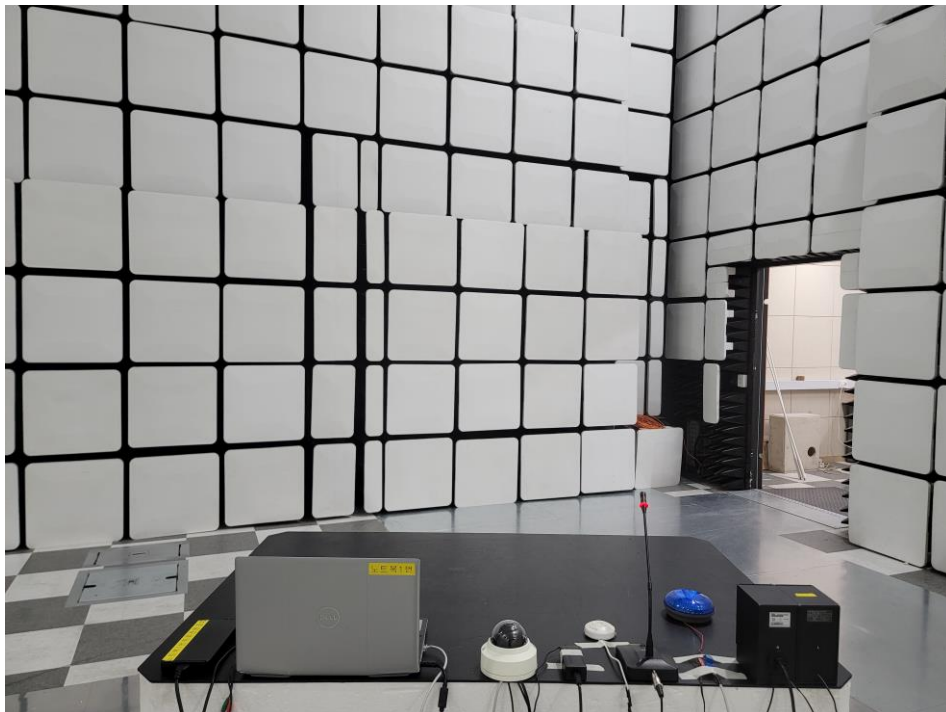
■ PoE Mode



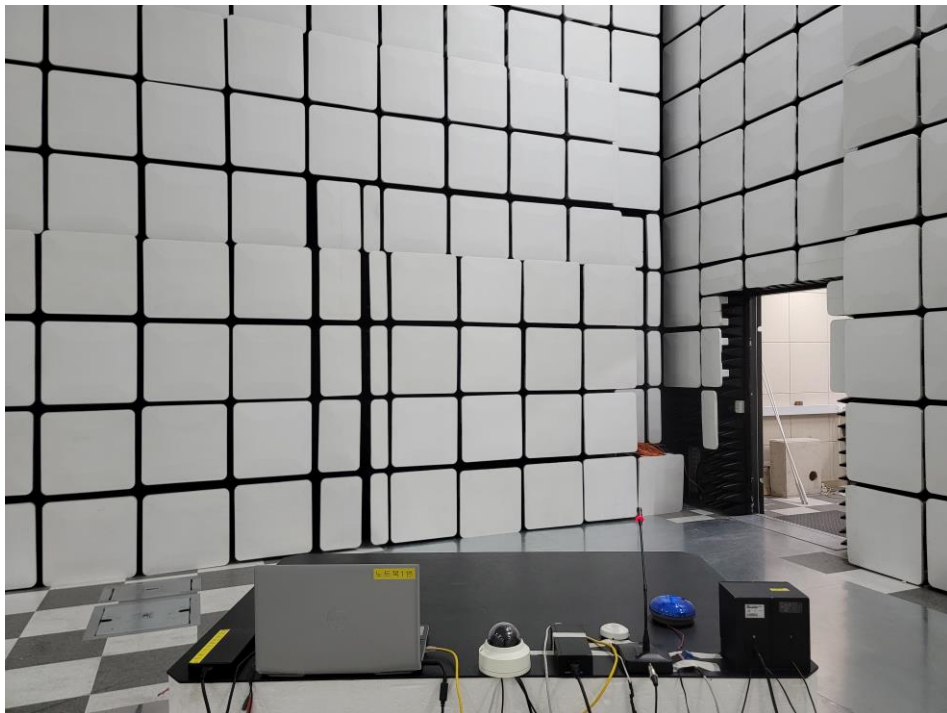
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Radiated Electric Field Emissions(Below 1 GHz)

■ DC Mode



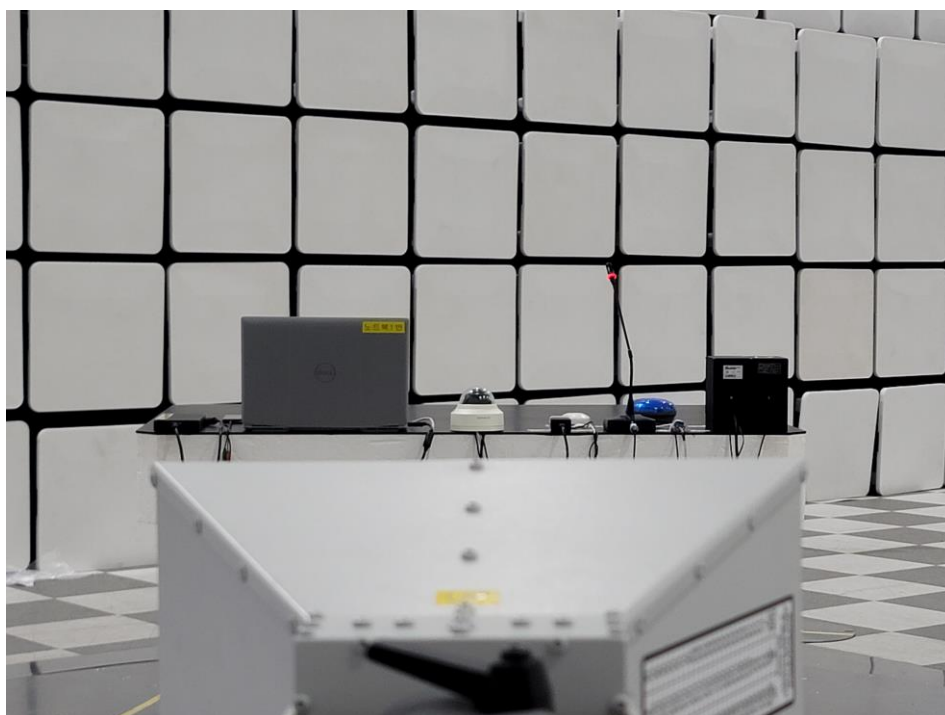
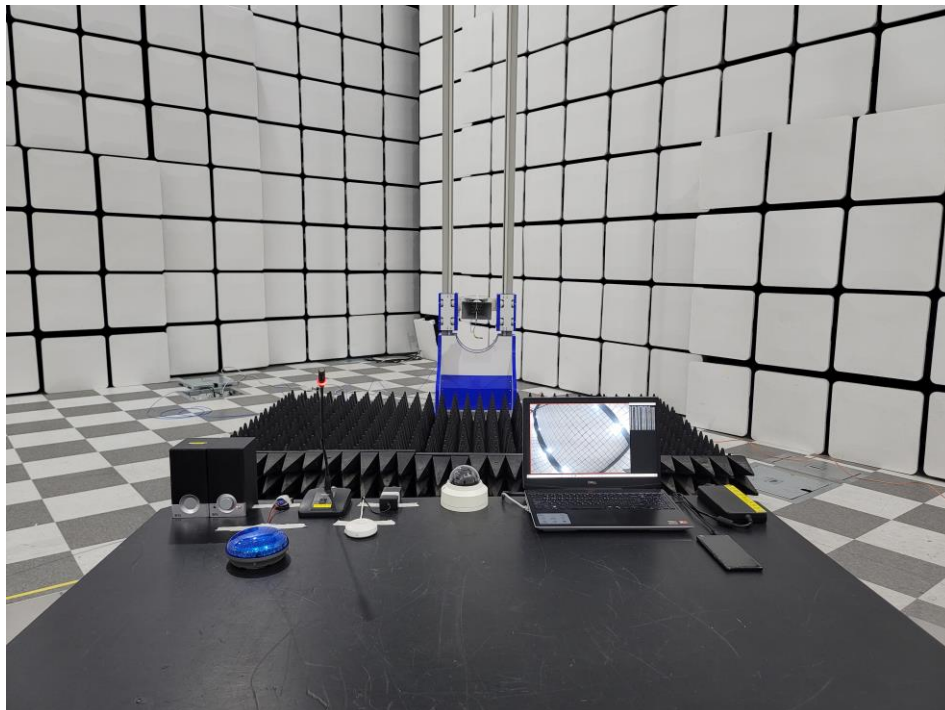
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■ PoE Mode

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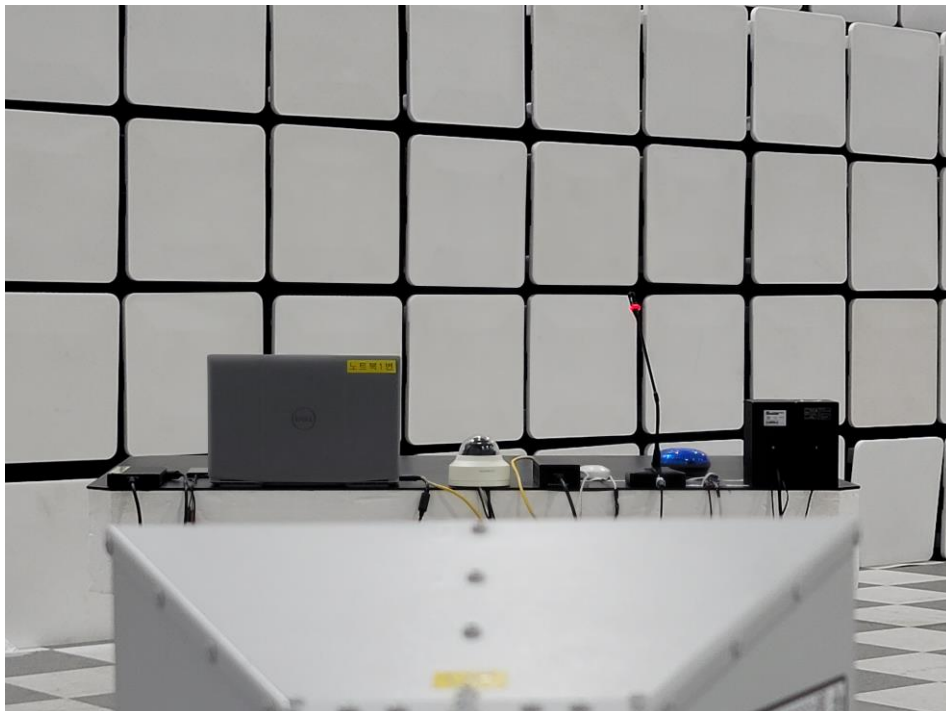
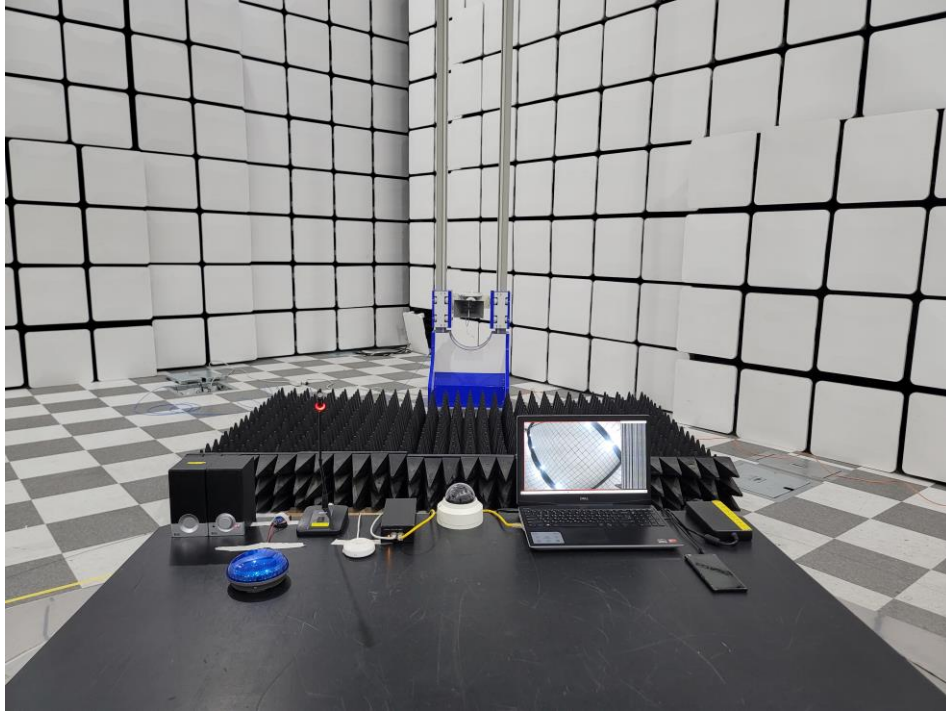
Radiated Electric Field Emissions(Above 1 GHz)

■ DC Mode



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■ PoE Mode



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EUT External Photographs

(Top)



(Bottom)



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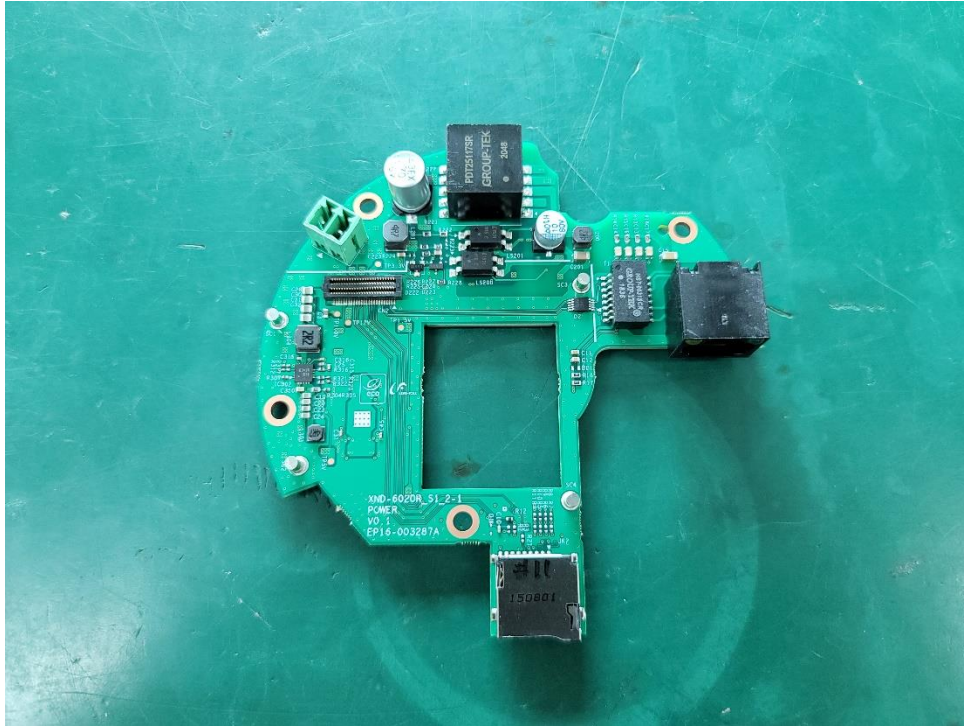
EUT Internal Photographs

(Internal View)

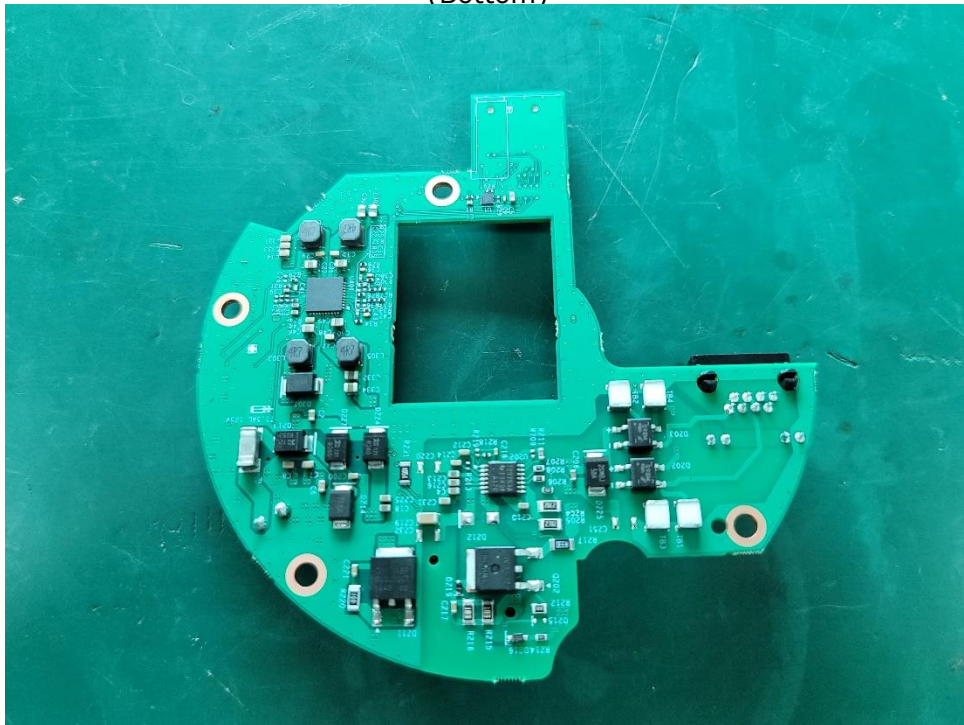


EUT Internal View – Board 1

(Top)



(Bottom)



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EUT Internal View – Board 2

(Top)



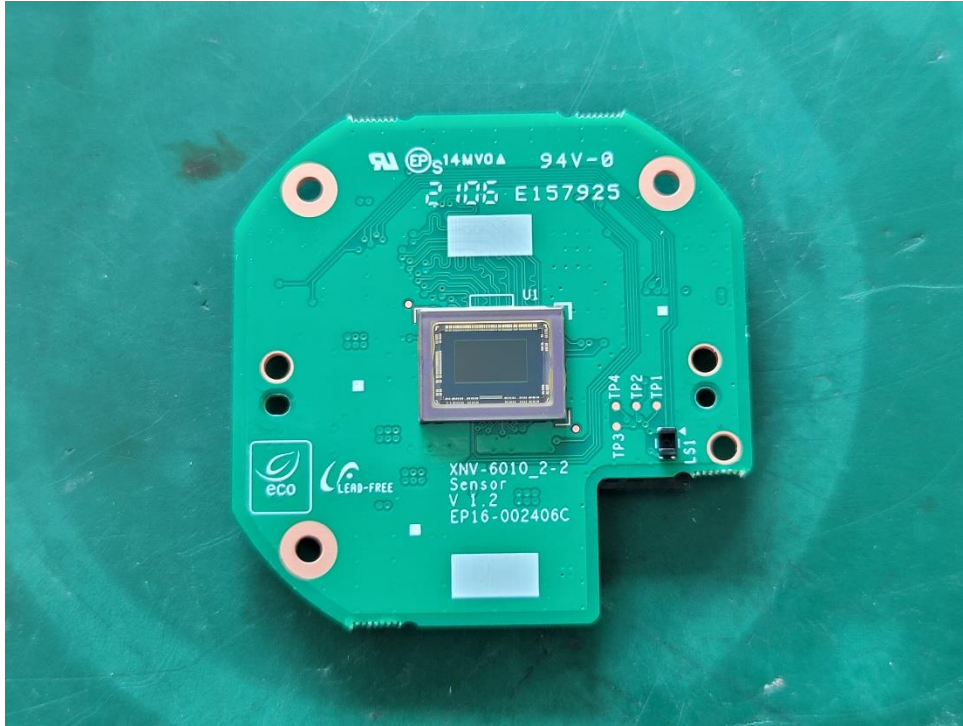
(Bottom)



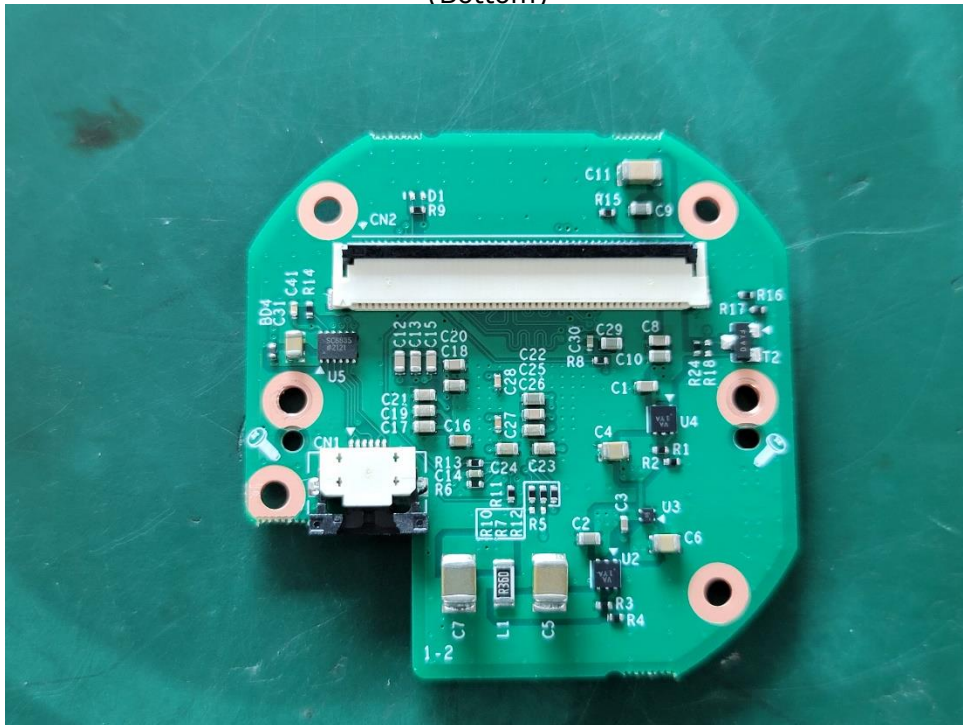
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EUT Internal View – Board 3

(Top)



(Bottom)



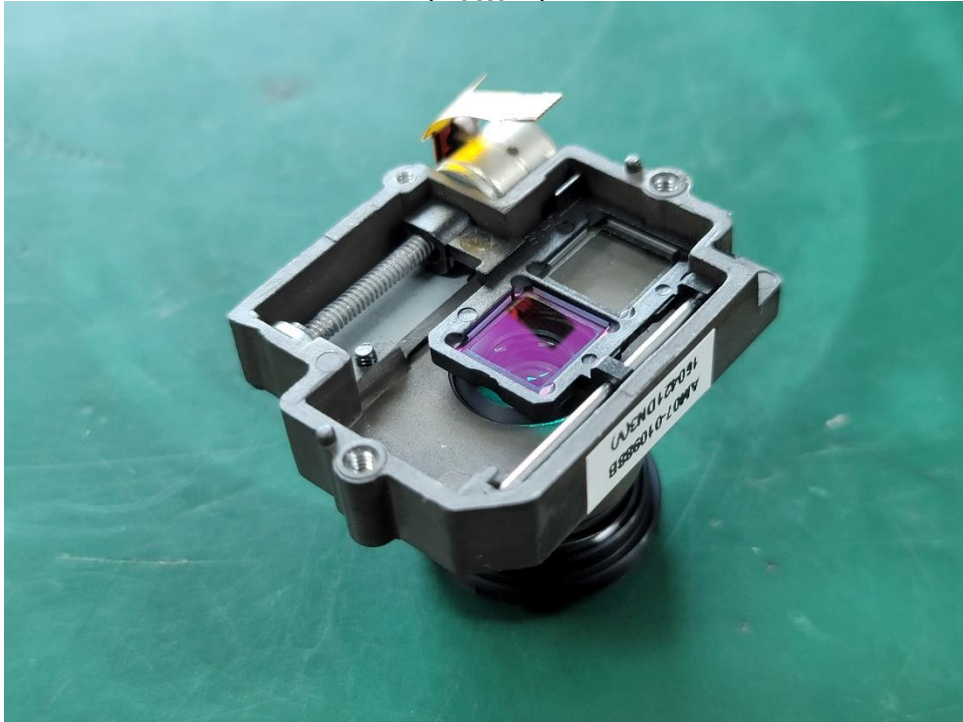
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EUT Internal View – Lens

(Top)

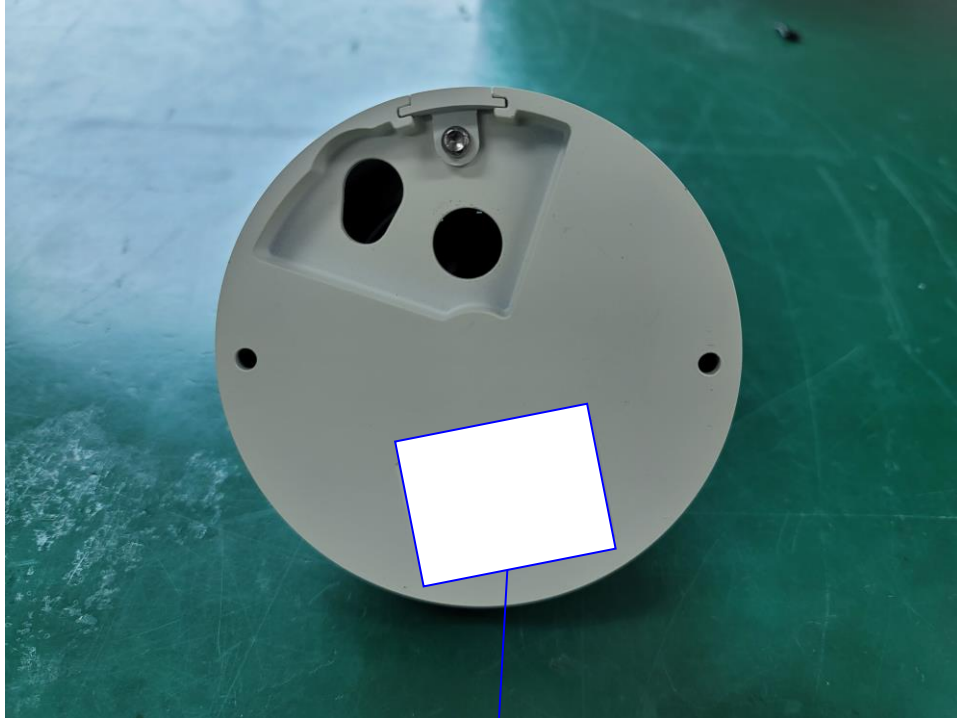


(Bottom)



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Label Photographs



CAN ICES-3(A) / NMB-3(A)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.