

EMC TEST REPORT

Test Report No. : KES-EM-22T0731
Date of Issue : Aug. 25, 2022
Product name : NETWORK CAMERA
Model/Type No. : XNV-6083RZ
Variant Model : -
Applicant : Hanwha Techwin Co., Ltd.
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
Manufacturer : 1. HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.
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 : Jul. 29, 2022
Test date : Aug. 03, 2022 ~ Aug. 04, 2022
Test Results : In Compliance Not in Compliance

Tested by

Dae Hyun, 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 REVISION HISTORY

Date	Test Report No.	Revision History
Aug. 25, 2022	KES-EM-22T0731	Issued

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1.0 General Product Description

Main Specifications of EUT are:

XNV-6083RZ		Radiometry	
Video		Temperature Detect Range	None
Imaging Device	1/2.8" progressive CMOS	Temperature Accuracy	None
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	Temperature Detection	None
Max. Frame Rate	H.265/H.264: Max. 120fps/100fps(60Hz/50Hz)(WDR on) Max. 60fps/50fps(60Hz/50Hz)(WDR on)	Additional	None
NETD	MJFEG: Max. 30fps/25fps(60Hz/50Hz)	Network	
Pixel Size	None	Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
Min. Illumination	Color: 0.01Lux(F1.4, 1/30sec, 30IRE) B/W: 0.001Lux(F1.4, 1/30sec, 30IRE), 0Lux(IR LED on), 30/25fps Color: 0.02Lux(F1.4, 1/60sec, 30IRE) B/W: 0.002Lux(F1.4, 1/60sec, 30IRE), 0Lux(IR LED on), 60/50fps Color: 0.04Lux(F1.4, 1/120sec, 30IRE) B/W: 0.004Lux(F1.4, 1/120sec, 30IRE), 0Lux(IR LED on), 120/190fps	Video Compression	H.265/H.264 Main/High, MJPEG
Video Transmission Distance	None	Audio Compression	None
Lens		Smart Codec	Manual/Ser. anal. WioStreamII, WioStreamIII(Based on AI engine)
Focal Length (Zoom Ratio)	2.8~12mm(4.3x) motorized varifocal	Video Quality Adjustment	H.264/H.265 Target bitrate level control MJPEG target bitrate level control
Max. Aperture Ratio	F1.4(Wide) ~ F3.6(Tele)	Bitrate Control	H.264/H.265 CBR or VBR MJPEG VBR
Angular Field of View	H: 120°(Wide) ~ 27°(Tele) V: 63°(Wide) ~ 15°(Tele) D: 343°(Wide) ~ 32°(Tele)	Streaming	Unicast(20 users) / Multicast Multiple streaming(up to 10 profiles, 3 virtual channel support)
Min. Object Distance	0.5m(1.64)	Protocol	IP: IPv6, TCP/IP, UDP/IP, RTP/UDP, RTSP/RTSP, NTP, HTTP, HTTPS, SSI/TLS, DHCP, TFTP, SMTP, CIFS, SMB, Samba(1/2/3/5/SMB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTT, TFTP, UDP Unicast
Focus Control	Simple focus, Manual		TFM 2.0 (FPS 140~2 level 2) HTTP(S) Login Authentication Digest Login Authentication IP Address Filtering
Lens Type	DC auto iris with hall sensor (IR connected)	Security	User access log 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) Device Certificate/lanhua Technin Root CA, pre-installed Secure by default certificate Secure OS/Boot/Storage, Verify firmware forgery
Mount Type	None	SIP support (VoIP, Peer-to-peer, SIP/P)	None
Optional Lens	None	Application Programming interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Wiscnet open platform
Pan / Tilt / Rotate		General	
Pan / Tilt / Rotate Range	Remote adjustment(Max. 200cycles) 0°~350° / 0°~85° / 0°~340°	Homepage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian
Pan Range	None	Web Viewer	None
Pan Speed	None	Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB (S12GB * 2)
Tilt Range	None	Memory	2GB RAM, 512MB Flash
Tilt Speed	None	Environmental & Electrical	
Rotate Range	None	Operating Temperature / Humidity	50°C ~ +55°C(58°F ~ +131°F) +74°C(165°F)(Max) based on NEMA TS-2(2,7) * Start up should be done at above -30°C 0~95%RH(non-condensing) Humidity control /w AIR vent
Sequence	None	Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
Pinset Accuracy	None	Certification	IP66/IP67/IP68, NEMA4X, IK10+
Operational		Input Voltage	PoE+ (IEEE802.3at, Class4)
Camera Tilt	Displayed up to 85 characters	Power Consumption	PoE+, Max 22.5W, typical 11W
Direction Indicator	None	Mechanical	
Day & Night	Auto(ICR)	Color / Material	White / Aluminum Hard-coated dome bubble
Backlight Compensation	BLC, HLC, WDR, SDR	RAL Code	RAL9003
Wide Dynamic Range	extreme(WDR) (150dB)	Product Dimensions / Weight	Ø180x135mm(7.09x5.31"), 2000g(4.41 lb)
Digital Noise Reduction	WideNR(Based on AI engine), SSNRV	Compatible Conduit hole / Gangbox	151mm(5.9")/M25
Digital Image Stabilization	Support	Hanging Mount (Dome)	SFP-187HMM
Defog	Support	Skin Cover (Dome)	None
Motion Detection	Box, Spot, Polygonal zones 32ea, Apoint Quadrangle zones - Color: Gray, Green, Red, Blue, Black, White - Mask: []	Weather Cap (Dome)	include
Privacy Masking	Color: Gray, Green, Red, Blue, Black, White - Mask: []	Power Module	None
Gain Control	Off / Max Gain / Manual	Backbox	None
White Balance	AWB / Narrow AWB / AWC / Manual / Indoor / Outdoor	Certifications & Standards	
WDR	Support (Full stretch mode)	Network	None
Electronic Shutter Speed	Minimum / Maximum / Prefer / Anti Flicker (2~1/10,000sec)	EMC	EN 50121-4 FCC 47 CFR 15 Subpart B Class A CSES 301/NMB-30/1 CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI C/SRP 32 Class A RCM AS/NZS CISPR 32 Class A KS C 9832 Class A, KS C 9835
Support (Reset/group)	Auto Prefer shutter control(Based on AI engine)	Safety	UL 5236B-1, CAN/CSA C22.2 NO. 6236B-1
Digital PTZ	Support(preset/group)	Environment	EN IEC 60000 IEC 60529 IP66/IP67, ISO 20653 IP68/IK7, IEC 62262 IK10+ NEMA 250 type 4X
Video Rotation	Flip, Mirror, Halfway view(90°/270°)	Video	None
	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(type:car/bus/truck/motorcycle/bicycle) Support Detection/Stat Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Motion detection, Tampering, Fog detection, Virtual area(Appear/Disappear) * Audio detection, Sound classification(with NW I/O box SPM-4210)	DRR (EN62676-4 standard)	
Business Intelligence	None	Detect (25PPM/ 80PF)	Wide: 22.2m(72.74ft) / Tele: 159.9m(524.76ft)
Serial Interface	None	Observe (3PPM/ 19PPF)	Wide: 8.9m(29.09ft) / Tele: 64.0m(209.90ft)
Alarm I/O	None	Recognize (125PPM/ 38PPF)	Wide: 4.4m(14.55ft) / Tele: 32.0m(104.95ft)
Alarm Triggers	Analytics, Network disconnect, App event, Tame schedule * Alarm input(with NW I/O Box SPM-4210)	Identify (250PPM/ 76PPF)	Wide: 2.2m(7.2ft) / Tele: 16.0m(52.48ft)
Alarm Events	When alarm trigger occurred - File upload(image) : e-mail/FTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Alarm output(with NW I/O box SPM-4210) - Handover/PIZ preset, Send message by HTTP/HTTPS/TCP		
Audio In	None		
Audio Out	None		
IR Viewable Length	15m(49.21ft)		
IR Illuminator (Optional)	30m(98.43ft) based on scene		
Water Removal	None		
Auto Tracking	None		
Coaxial Protocol	None		
Color Palettes	None		

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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 Adapter Input Power)

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	XNV-6083RZ	-	HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Adapter	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co.,Ltd	-
Notebook	P95G001	8KM8HT2	DELL INC.	-
Notebook Adapter	HA65NM130	-	Chicony Power Technology(Suzhou) Co.,Ltd.	-
Micro SD Card	-	-	Sandisk	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
	RJ-45 (PoE)	PoE Adapter	RJ-45 (PoE)	3.0	S
PoE Adapter	RJ-45 (LAN)	Notebook	RJ-45 (LAN)	1.5	U
Notebook	DC Jack	Notebook Adapter	DC Jack	1.8	U

* Unshielded=U, Shielded=S

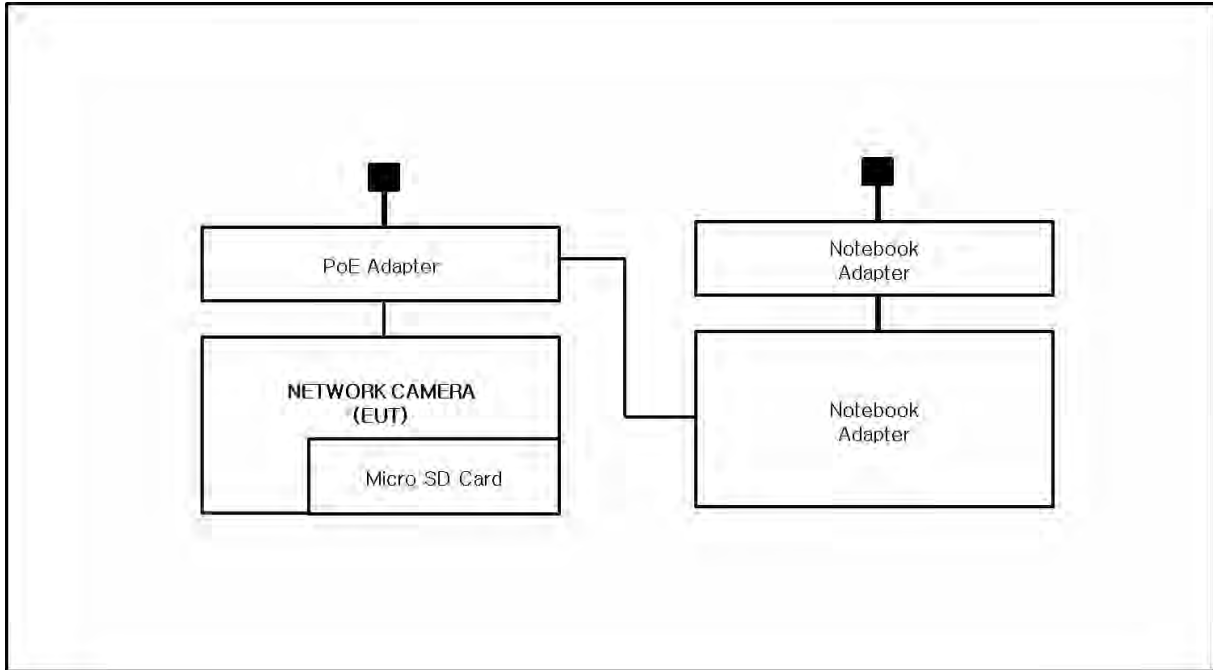
1.7 EUT Operating Mode(s)

Test Mode	operating
Operating	Check the Normal Operation status. after testing, check if the recording is normally done on the Micro SD Card

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

1.8 Configuration

■ AC Main
□ DC Main



1.9 Remarks when standards applied

The USB, VIDEO ports were excluded from the test as administrator ports.







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 , 10 m Open Area 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, 10 m Open Area and 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	Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1 GHz	 R-20056, C-20036, T-20040, G-20057
Europe	TÜ V SÜ D	EMI (3 m & 10 m Semi-Anechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004

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2.0 Test Regulations

The emissions tests were performed according to following regulations:

47 CFR Part 15, Subpart B

CISPR 22:2009 +A1:2010

Class A

Class B

ANSI C63.4a-2017

Class A

Class B

IC Regulation ICES-003 Issue 7

CAN/CSA-CISPR 32:17

Class A

Class B

ANSI C63.4a-2017

Class A

Class B

2.1 Conducted Emissions at Mains Power Ports

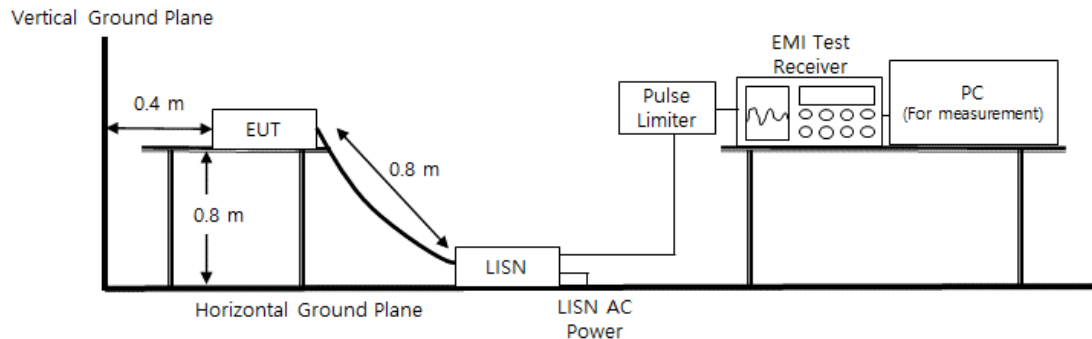
Test Date
Aug. 04, 2022

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	12, 28, 2022
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	12, 27, 2022
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022

Diagram of test setup



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Test Conditions

Temperature: (24,6 ± 0,1) °C
Relative Humidity: (45,9 ± 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)

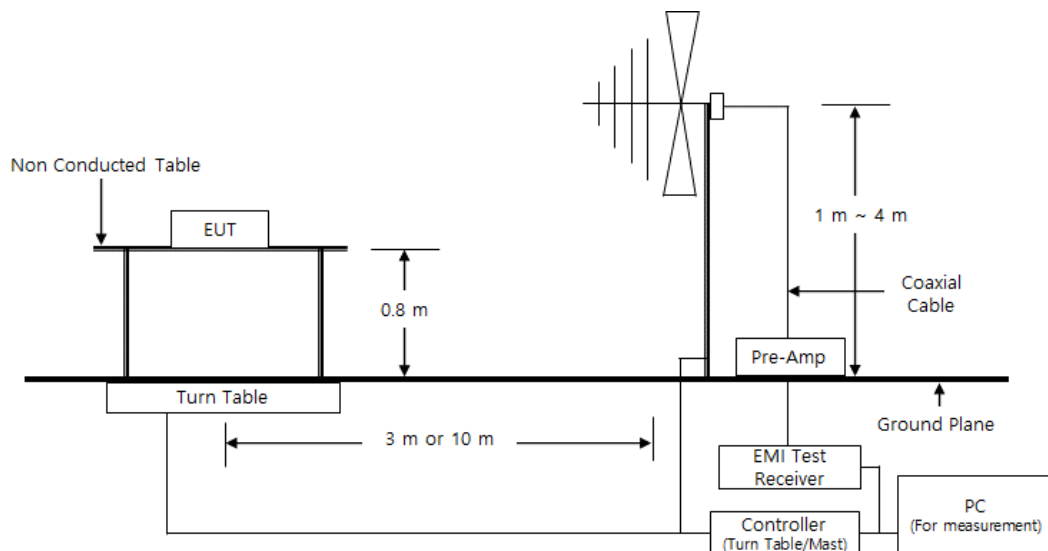
Test Date
Aug. 03, 2022

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	ESU26	R & S	100551	03, 31, 2023
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 08, 2023

Diagram of test setup



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Test Conditions

Temperature: (24,5 ± 0,2) °C
Relative Humidity: (46,3 ± 0,1) % 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.

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

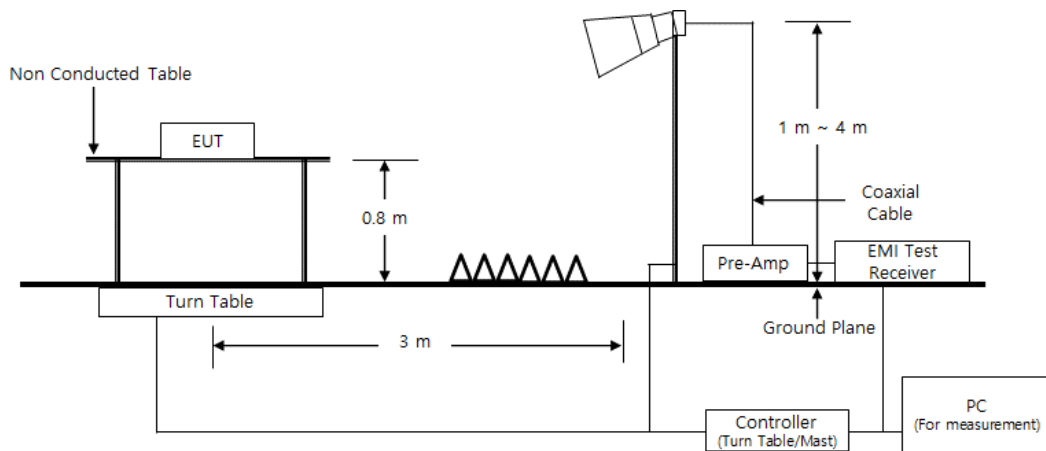
Test Date
Aug. 03, 2022

Test Location
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	ESU26	R & S	100551	03, 31, 2023
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01742	12, 27, 2022
<input checked="" type="checkbox"/>	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022

Diagram of test setup



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Test Conditions

Temperature: (24,6 ± 0,2) °C
Relative Humidity: (45,9 ± 0,2) % 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.

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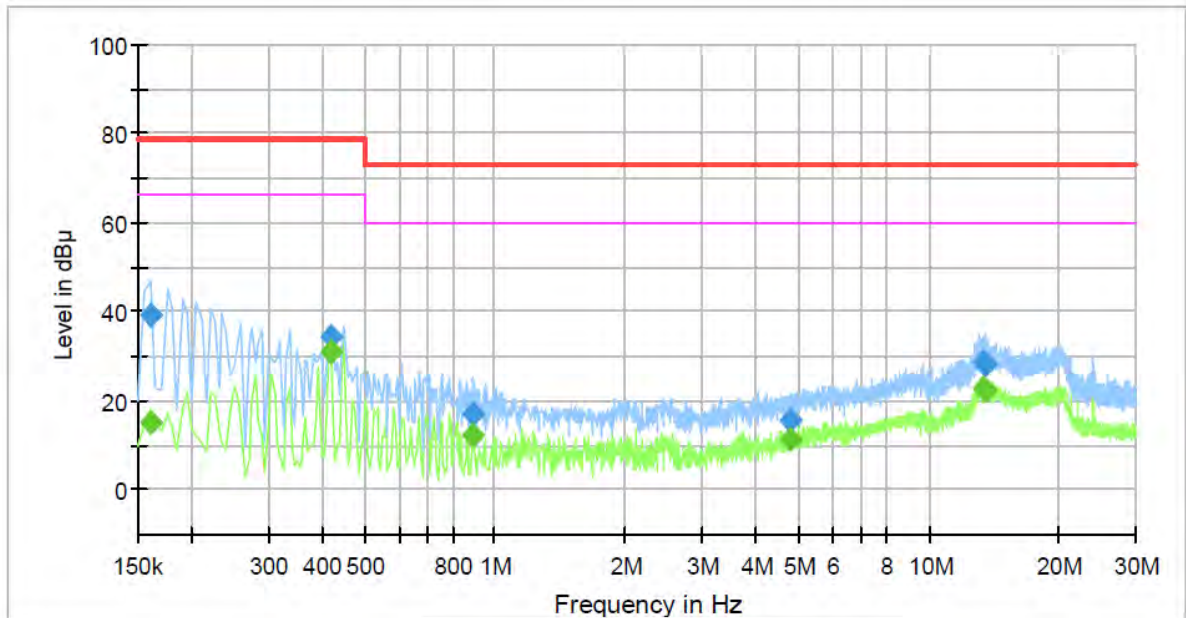
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XNV-6083RZ
Phase:	
Mode:	
Operator Name:	KES



Final Result

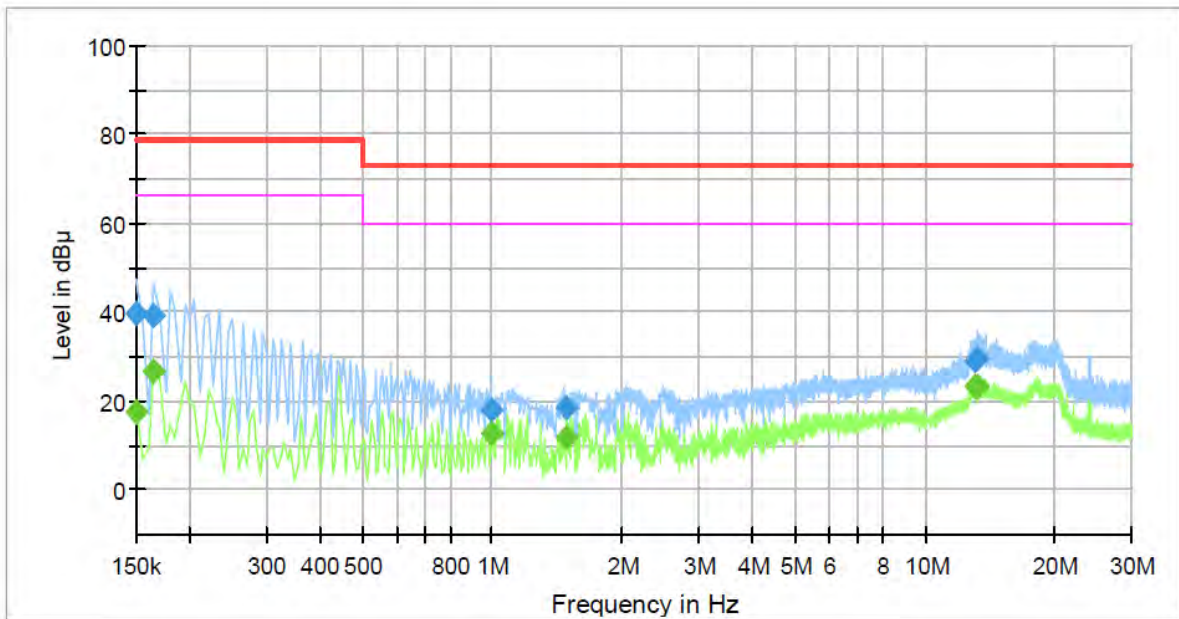
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	15.20	66.00	50.80	1000.0	9.000	L1	19.4
0.160000	39.42	---	79.00	39.58	1000.0	9.000	L1	19.4
0.420000	---	30.79	66.00	35.21	1000.0	9.000	L1	19.6
0.420000	34.38	---	79.00	44.62	1000.0	9.000	L1	19.6
0.890000	---	12.07	60.00	47.93	1000.0	9.000	L1	20.1
0.890000	17.09	---	73.00	55.91	1000.0	9.000	L1	20.1
4.805000	---	11.18	60.00	48.82	1000.0	9.000	L1	19.7
4.805000	15.59	---	73.00	57.41	1000.0	9.000	L1	19.7
13.340000	---	22.75	60.00	37.25	1000.0	9.000	L1	19.9
13.340000	28.80	---	73.00	44.20	1000.0	9.000	L1	19.9
13.500000	---	22.51	60.00	37.49	1000.0	9.000	L1	19.9
13.500000	28.24	---	73.00	44.76	1000.0	9.000	L1	19.9

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NEUTRAL LINE

Common Information

Test Description: Conducted Emission
 Model No.: XNV-6083RZ
 Phase:
 Mode:
 Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	17.29	66.00	48.71	1000.0	9.000	N	19.4
0.150000	39.68	---	79.00	39.32	1000.0	9.000	N	19.4
0.165000	---	26.74	66.00	39.26	1000.0	9.000	N	19.4
0.165000	39.17	---	79.00	39.83	1000.0	9.000	N	19.4
0.995000	---	12.76	60.00	47.24	1000.0	9.000	N	20.0
0.995000	18.01	---	73.00	54.99	1000.0	9.000	N	20.0
1.490000	---	11.72	60.00	48.28	1000.0	9.000	N	20.2
1.490000	18.30	---	73.00	54.70	1000.0	9.000	N	20.2
13.125000	---	23.32	60.00	36.68	1000.0	9.000	N	19.9
13.125000	29.25	---	73.00	43.75	1000.0	9.000	N	19.9
13.210000	---	23.32	60.00	36.68	1000.0	9.000	N	19.9
13.210000	29.35	---	73.00	43.65	1000.0	9.000	N	19.9

◆ Calculation

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

QuasiPeak / CAverage : The Final Value

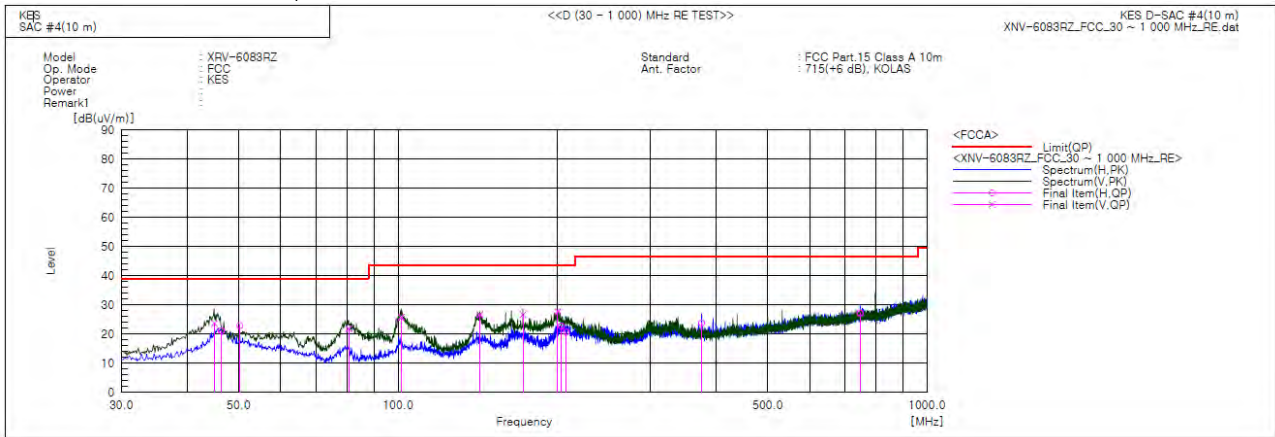
Reading Value : Not shown in the table.

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

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Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

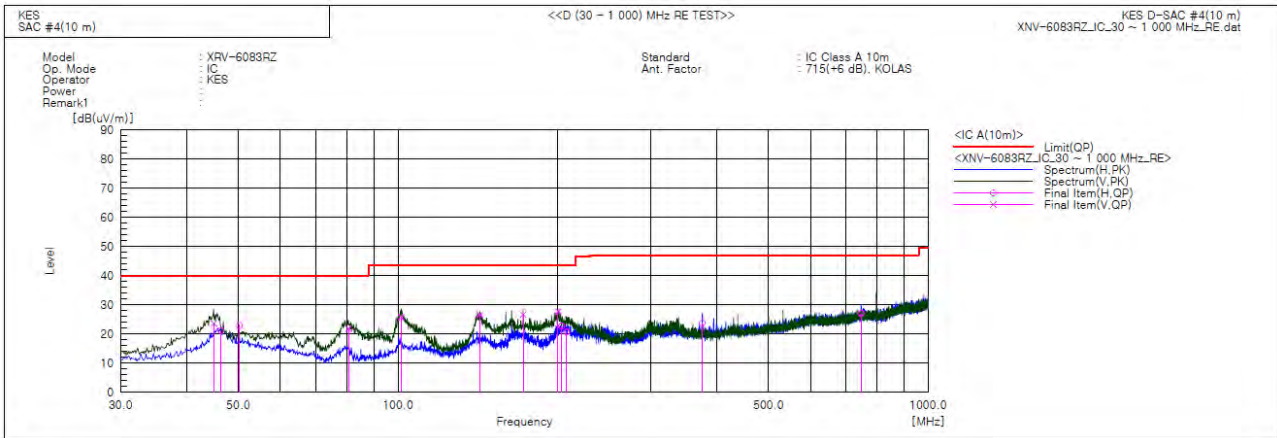


Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	44.956	V	45.0	-21.4	23.6	39.0	15.4	105.0	288.0	
2	46.369	H	42.4	-21.3	21.1	39.0	17.9	400.0	314.0	
3	50.249	H	43.9	-21.0	22.9	39.0	16.1	369.0	276.0	
4	80.683	V	49.4	-27.6	21.8	39.0	17.2	113.0	125.0	
5	101.425	V	48.3	-22.5	25.8	43.5	17.7	100.0	51.0	
6	142.770	V	52.2	-25.5	26.7	43.5	16.8	100.0	178.0	
7	172.226	V	50.8	-24.1	26.7	43.5	16.8	100.0	288.0	
8	200.356	V	48.6	-20.9	27.7	43.5	15.8	100.0	269.0	
9	203.509	H	43.6	-20.9	22.7	43.5	20.8	400.0	109.0	
10	208.116	H	41.5	-20.8	20.7	43.5	22.8	400.0	332.0	
11	374.956	H	38.6	-14.8	23.8	46.5	22.7	265.0	332.0	
12	747.800	H	33.4	-6.3	27.1	46.5	19.4	400.0	239.0	

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- IC Regulation ICES-003 Issue 7



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	44.956	V	45.0	-21.4	23.6	40.0	16.4	105.0	288.0	
2	46.369	H	42.4	-21.3	21.1	40.0	18.9	400.0	314.0	
3	50.249	H	43.9	-21.0	22.9	40.0	17.1	369.0	276.0	
4	80.683	V	49.4	-27.6	21.8	40.0	18.2	113.0	125.0	
5	101.425	V	48.3	-22.5	25.8	43.5	17.7	100.0	51.0	
6	142.770	V	52.2	-25.5	26.7	43.5	16.8	100.0	178.0	
7	172.226	V	50.8	-24.1	26.7	43.5	16.8	100.0	288.0	
8	200.356	V	48.6	-20.9	27.7	43.5	15.8	100.0	269.0	
9	203.509	H	43.6	-20.9	22.7	43.5	20.8	400.0	109.0	
10	208.116	H	41.5	-20.8	20.7	43.5	22.8	400.0	332.0	
11	374.956	H	38.6	-14.8	23.8	47.0	23.2	265.0	332.0	
12	747.800	H	33.4	-6.3	27.1	47.0	19.9	400.0	239.0	

◆ Calculation – SAC #4(10 m)

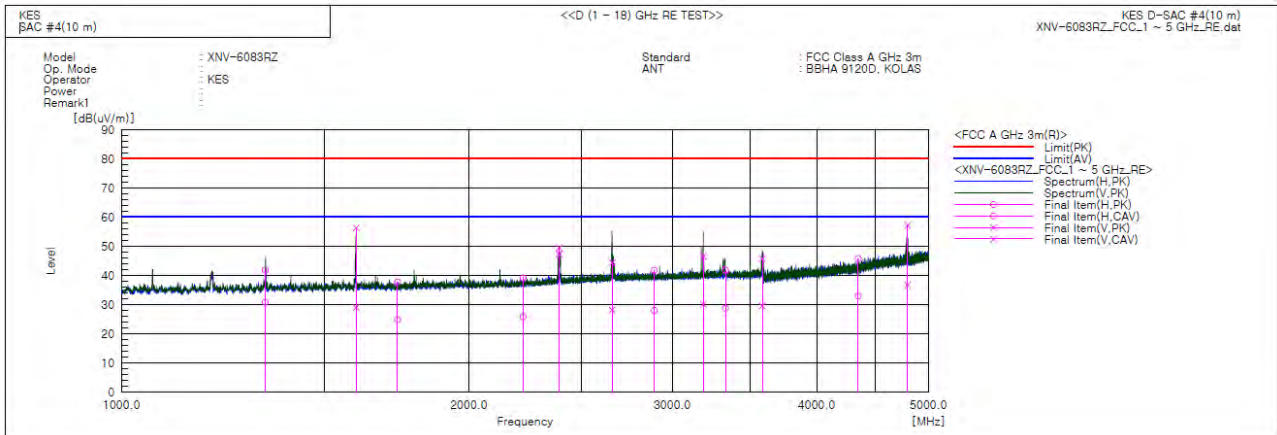
Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

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

Radiated Electric Field Emissions(Above 1 GHz)



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	1332.089	H	46.1	35.0	-4.2	41.9	30.8	80.0	60.0	38.1	29.2	355.0	89.0	
2	1596.123	V	59.2	31.9	-2.9	56.3	29.0	80.0	60.0	23.7	31.0	120.0	53.0	
3	1734.156	H	40.2	27.3	-2.4	37.8	24.9	80.0	60.0	42.2	35.1	400.0	35.0	
4	2228.200	H	39.3	26.0	-0.1	39.2	25.9	80.0	60.0	40.8	34.1	265.0	126.0	
5	2393.500	V	48.7	46.6	0.8	49.5	47.4	80.0	60.0	30.5	12.6	110.0	328.0	
6	2660.095	V	42.4	26.2	2.0	44.4	28.2	80.0	60.0	35.6	31.8	100.0	107.0	
7	2894.220	H	38.9	25.2	2.9	41.8	28.1	80.0	60.0	38.2	31.9	400.0	332.0	
8	3191.144	V	42.8	26.3	3.8	46.6	30.1	80.0	60.0	33.4	29.9	124.0	254.0	
9	3335.519	H	37.7	24.7	4.1	41.8	28.8	80.0	60.0	38.2	31.2	300.0	187.0	
10	3589.001	V	41.1	24.9	4.7	45.8	29.6	80.0	60.0	34.2	30.4	105.0	126.0	
11	4345.980	H	36.7	23.9	9.1	45.8	33.0	80.0	60.0	34.2	27.0	347.0	291.0	
12	4794.735	V	45.3	24.8	11.9	57.2	36.7	80.0	60.0	22.8	23.3	100.0	145.0	

◆ 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

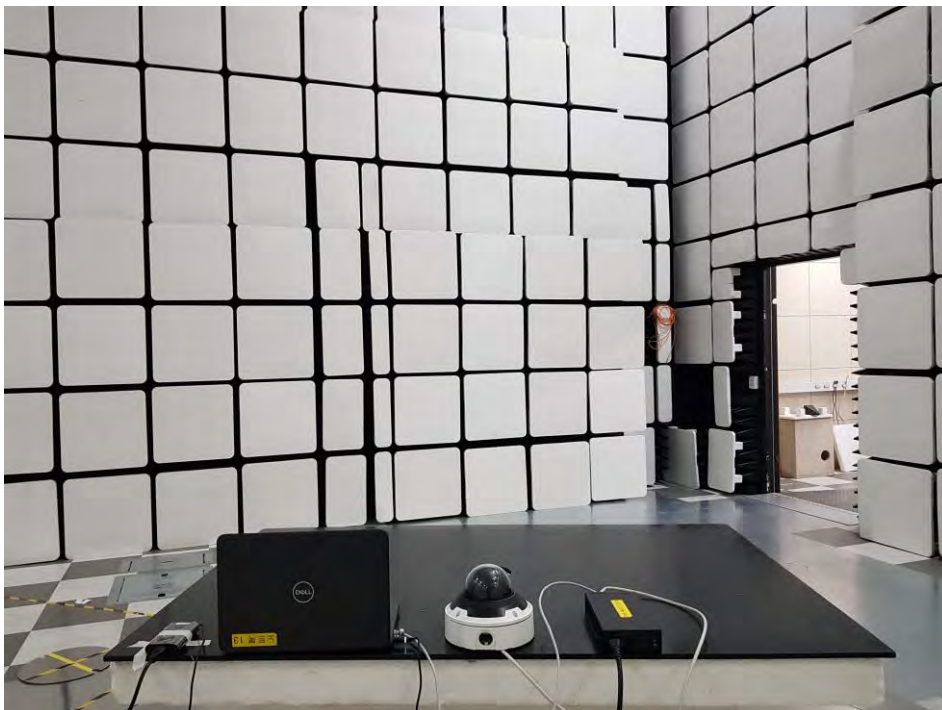
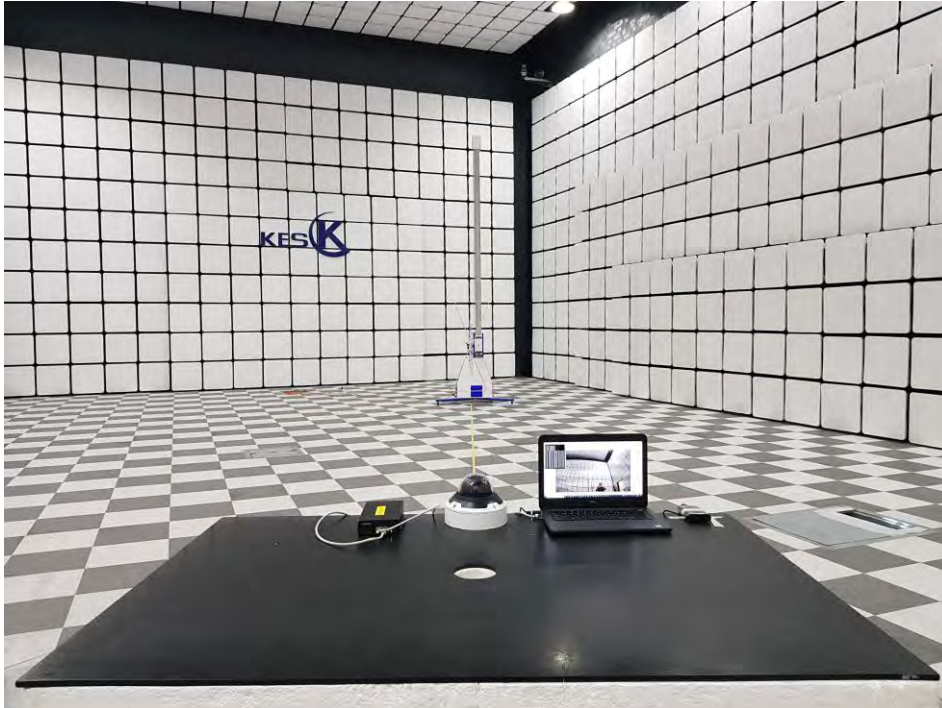
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



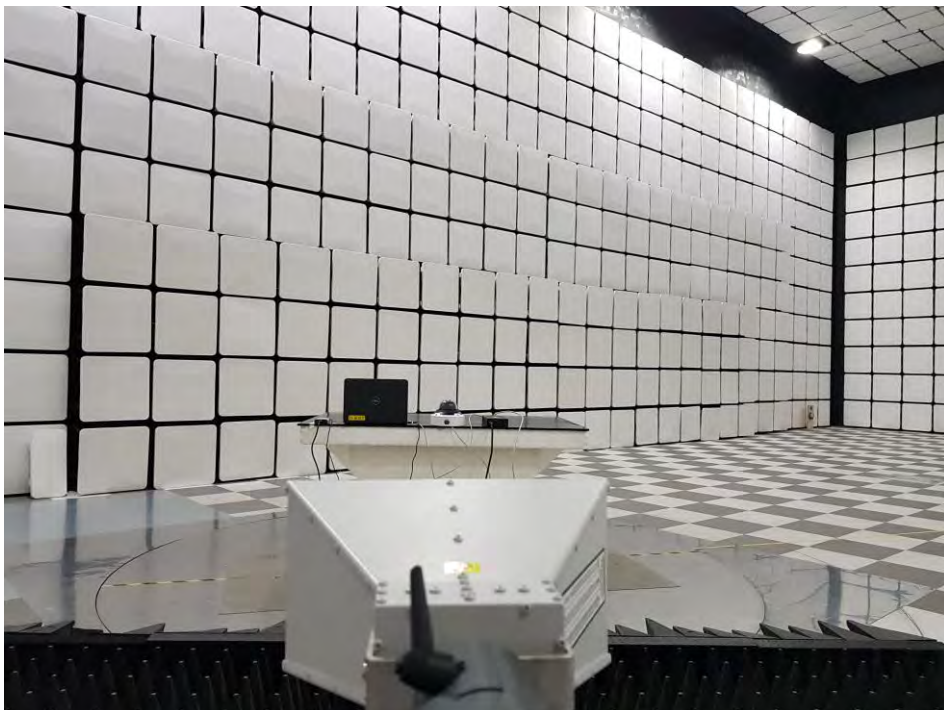
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Radiated Electric Field Emissions(Below 1 GHz)



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Radiated Electric Field Emissions(Above 1 GHz)



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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

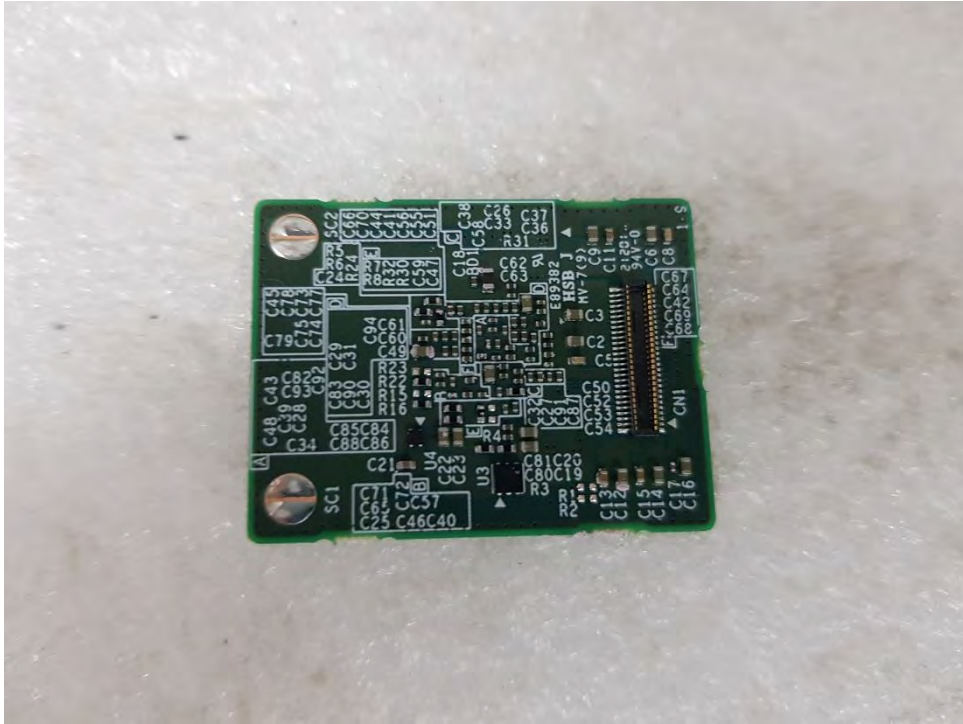
(Internal View)



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EUT Internal View – Board 1

(Top)



(Bottom)



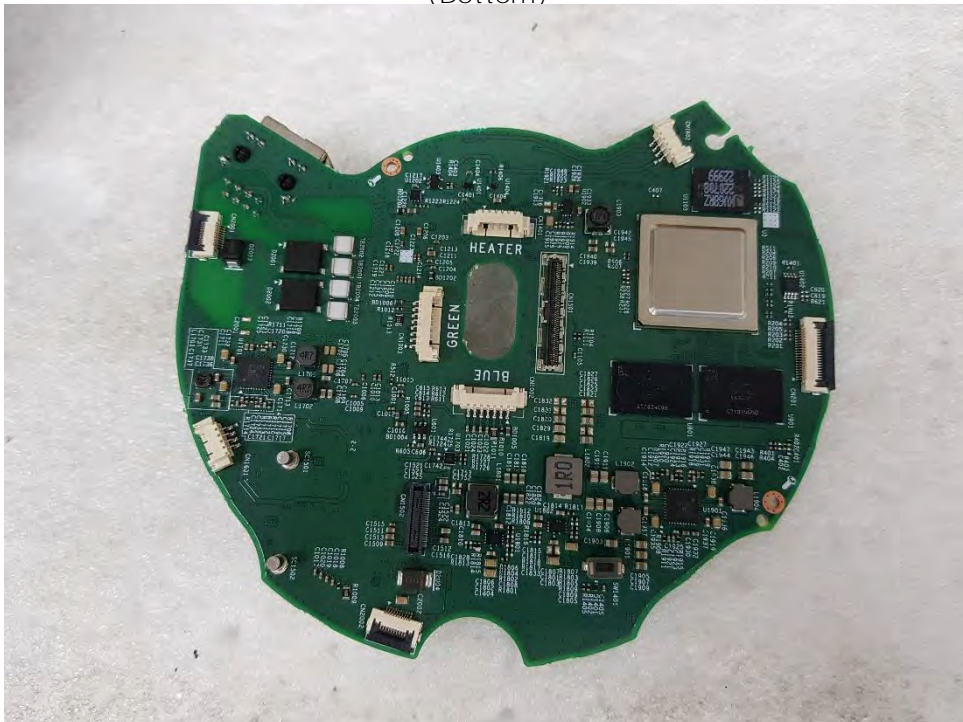
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EUT Internal View – Board 2

(Top)



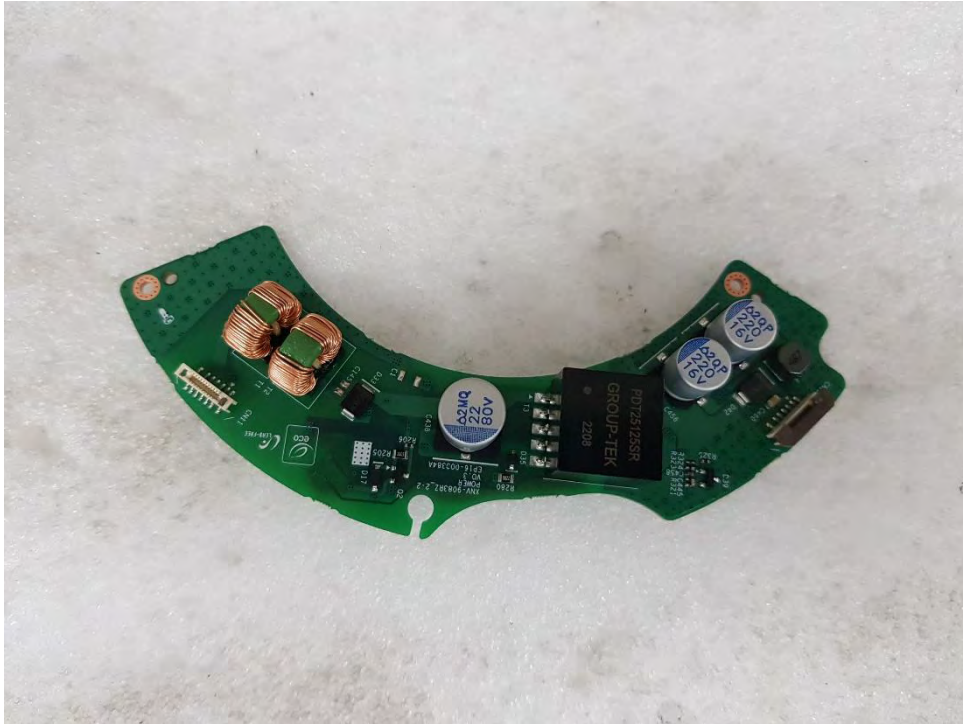
(Bottom)



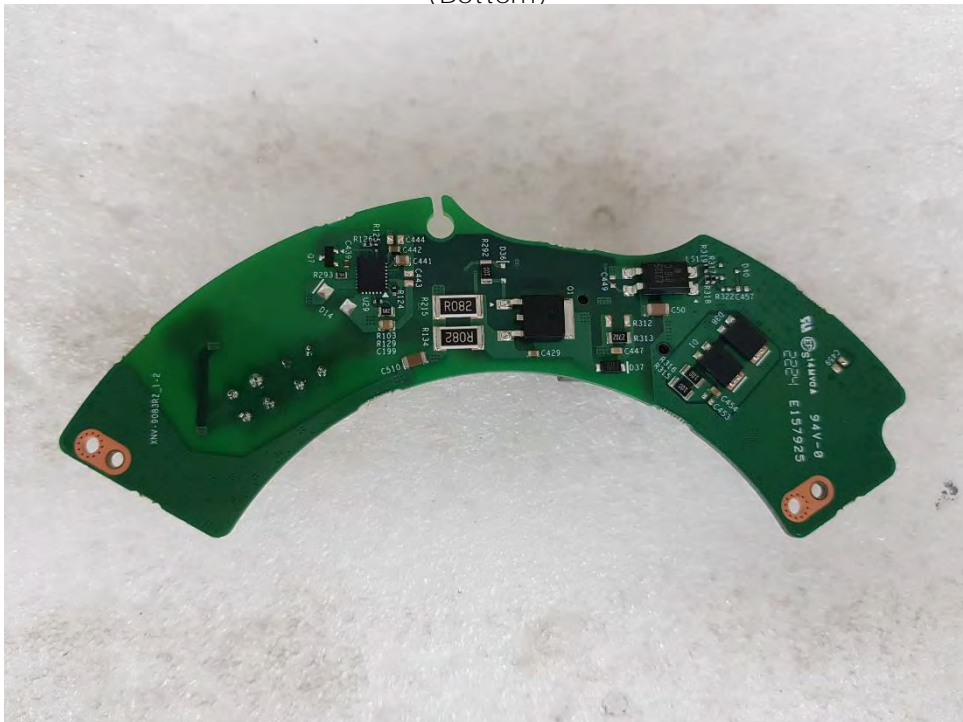
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EUT Internal View – Board 3

(Top)



(Bottom)



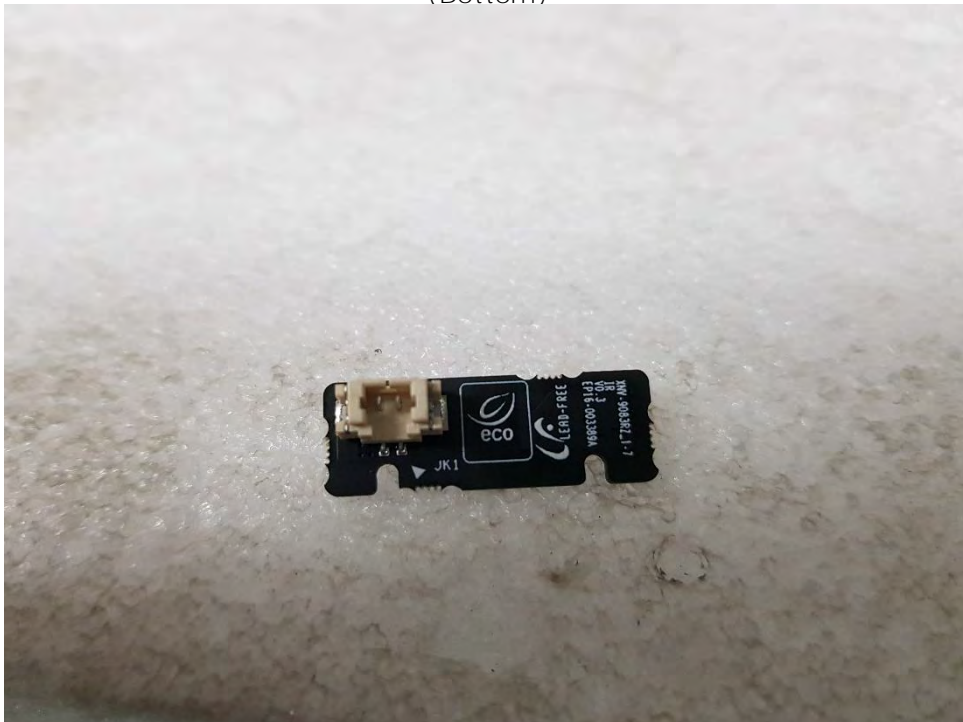
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EUT Internal View – Board 4

(Top)



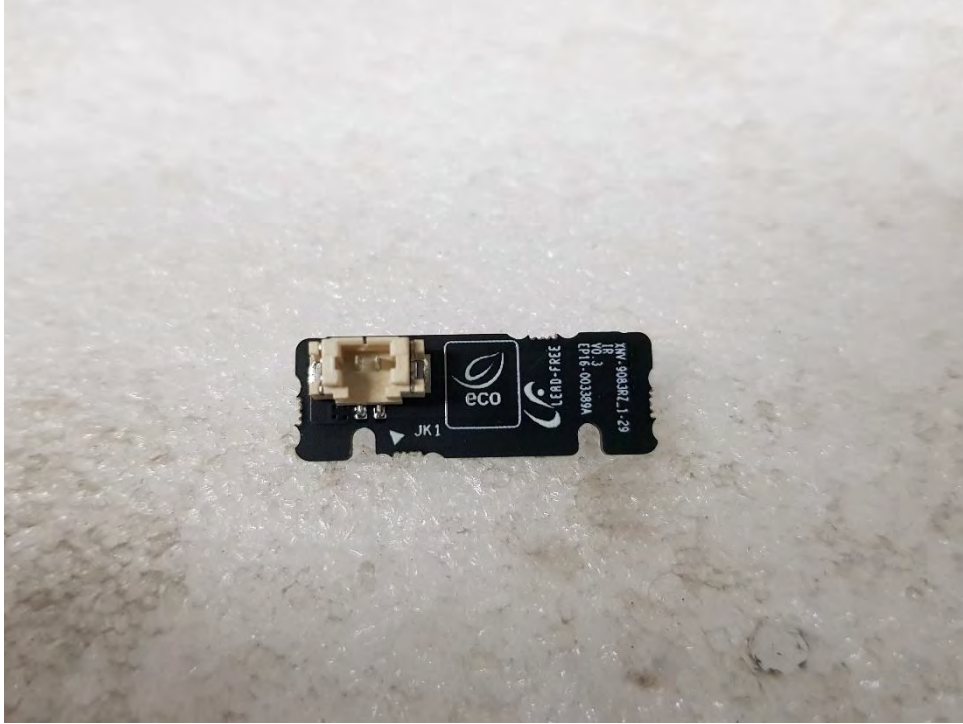
(Bottom)



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EUT Internal View – Board 5

(Top)



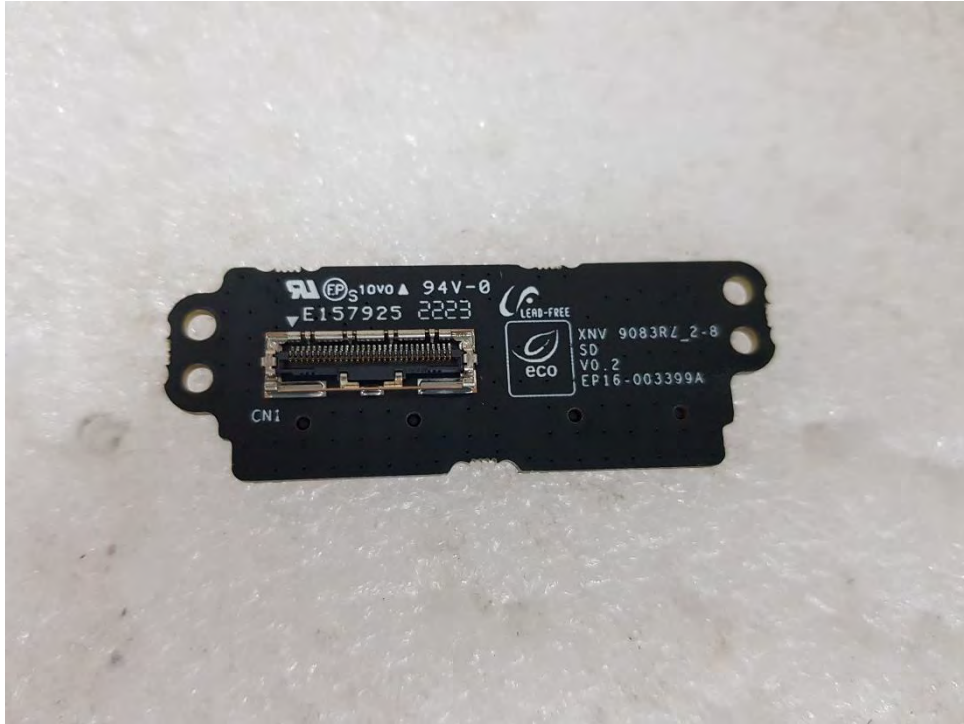
(Bottom)



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EUT Internal View – Board 6

(Top)



(Bottom)



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EUT Internal View – Board 7

(Top)



(Bottom)



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EUT Internal View – Board 8

(Top)



(Bottom)



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EUT Internal View – Board 9

(Top)



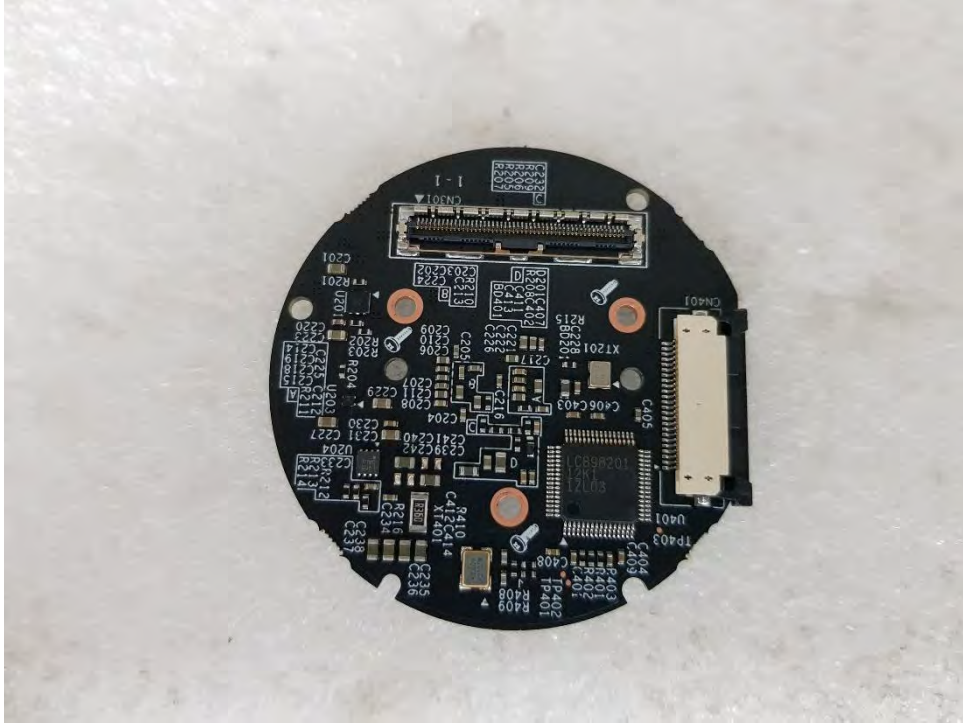
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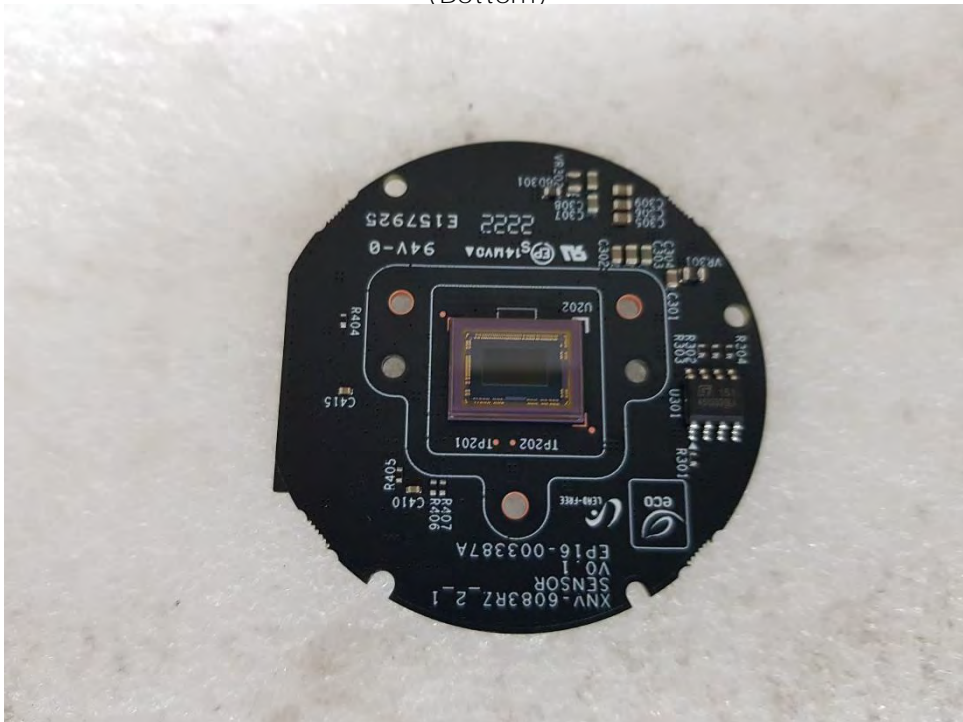
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EUT Internal View – Board 10

(Top)



(Bottom)



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EUT Internal View – Lens

(Top)



(Bottom)



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Label Photographs

FCC Label



Hanwha Techwin Co., Ltd.

XNV-6083RZ

IC Label

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

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.