



TEST REPORT



Report No. : KES-EM-23T9040

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KES Co., Ltd.3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si,
Gyeonggi-do, 14057, Korea
Tel : +82-31-425-6200, Fax : +82-31-425-6200

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 : Public view monitor

Model/Type No. : SMT-3231PV

Variant Model : -

Manufacturer : OIC KOREA Co., Ltd.

Manufacturer Address : 5F, 12, Annam-ro 369beon-gil, Bupyeong-gu, Incheon, 21312, Korea

3. Equipment authorization

 : Supplier's Declaration of Conformity

4. Date of Receipt

 : Sep. 25, 2023

5. Test date

 : Oct. 06, 2023 ~ Oct. 17, 2023

6. Date of Issue

 : Nov. 06, 2023

7. Test Results

 : In Compliance

Tested by

Dae Soo Kim
EMC Test Engineer

Reviewed by

Seong Min Choi
EMC Technical Manager

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

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

KES Co., Ltd.

The authenticity of the test report, contact kes@kes.co.kr



REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Nov. 06, 2023	KES-EM-23T0940	Issued

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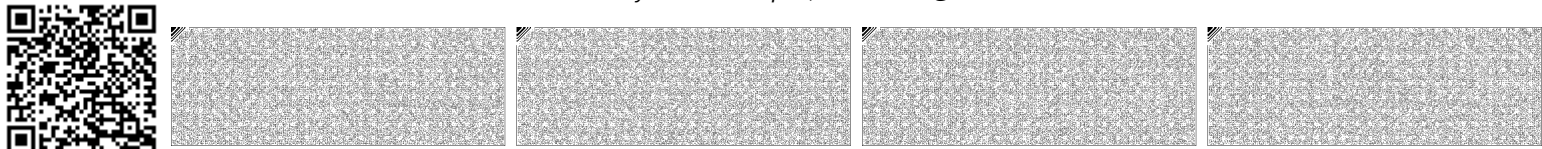


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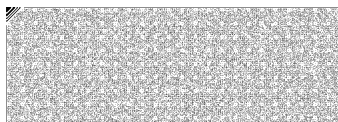
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1.0 General Product Description

Main Specifications of EUT are:

Display		
Type	LED Monitor	
Screen Size	31.55"	
Max. Resolution	1920*1080 60Hz (FHD)	
Brightness	400 cd/m²	
Contrast Ratio	1300:1	
Aspect Ratio	16:9	
Viewing Angle (H/V)	178°/178°	
Display Color	16.7M Colors	
Response Time	25ms	
Video System	None	
Panel Life	30,000 hours	
Filter Type	None	
Interface		
Video	Connectors	Camera(Internal, PIP/PBP), HDMI#1(PIP/PBP), HDMI#2 * two windows PIP/PBP : Internal Camera and HDMI#1
Composite Video	Input	None
VGA	Connector	None
	Input Signal	None
	Available Format	None
HDMI	Connector	HDMI 1.4 x 2
	Available Format	- 640×480@60Hz/72Hz/75Hz - 800×600@60Hz/72Hz/75Hz - 1024×768@60Hz/75Hz, - 1280x720p@50Hz/60Hz - 1280x1024@60Hz/75Hz - 1440x900@60Hz - 1680x1050@60Hz - 1920×1080@60Hz
DP	Connector	None
	Available Format	None
Audio	Connector	None
	Output Signal	Speakers : 8Ω 2Wx 2
Alarm	Alarm I/O	Input 1ea / Output 1ea
Network	Ethernet	1 RJ-45 10/100BASE-T,
General	Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Application Support	None	
On Screen Display		
Functions	VESA™ DPM Compatible	
Language	English, Spanish, French	
General		
Electrical	Input Voltage	DC24V, HPOE 802.3bt
	Power Consumption	56W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	10% ~ 80% (non-condensing)
Mechanical	Dimensions with Stand (WxHxD)	None
	Dimensions without Stand (WxHxD)	734mm(W) x 490mm(H) x 68mm(D)
	Weight with Packing	16.1Kg
	Weight without Packing	12.4kg
	Protection Glass	None
	Cabinet Color	Black
	Wall Mounts	None
	VESA Mounts Interface	VESA 100 x 100mm, 200 x 100mm, 200 x 200mm



Camera		
Video	Imaging Device	1/2.8" 2MP CMOS
	Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps/12fps(60Hz/50Hz)
	Min. Illumination	Color: 0.03Lux (F1.6, 1/30sec) (TBD)
Lens	Focal Length (Zoom Ratio)	3.06mm fixed focal
	Max. Aperture Ratio	F1.6
	Angular Field of View	H: 107.7° / V: 59.0° / D: 126.7°
Operational	Backlight Compensation	BLC, WDR, SSDR
	Wide Dynamic Range	120dB
	Digital Noise Reduction	SSNR V, WiseNR II (Based on AI engine)
	Motion Detection	8ea, 8point Polygonal zones
	Privacy Masking	32ea, 4point Quadrangle zones
	Gain Control	Low / Middle / High
	White Balance	ATW / AWC / Manual / Indoor / Outdoor
	LDC	Support
	Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)
	Digital PTZ	Support
	Video Rotation	Flip, Mirror, Hallway view(90°/270°)
	Analytics	Classified object type: Person/Face Attributes: Not support Support DetectionShot Analytics events based on AI engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Appear/Disappear)
	Business Intelligence	People counting, Queue management, Heatmap based on AI engine
	Alarm Triggers	Analytics, Network disconnect, Alarm input
	Alarm Events	When alarm trigger occurred - File upload(image) : e-mail/FTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP)
	Smart Codec	WiseStream III
	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin Root CA, pre-installed)
	Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API)
	Memory	2GB RAM, 1GB Flash



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(AC/DC ADAPTOR) ☒ PoE

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

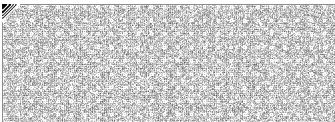
Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
Public view monitor	SMT-3231PV	-	OIC KOREA Co., Ltd.	EUT
AC/DC ADAPTOR	FSP060-DAAN3	-	FSP	EUT
IR REMOCON	-	-	-	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Micro SD Card	-	-	SanDisk	-
Laptop 1	LG15N54	506NZGK000615	LG ELECTRONICS NANJING NEW TECHNOLOGY CO., LTD	-
Laptop 1 Adapter	PA-1650-43(65W)	OF58U63849302Y6 09	LITE-ON TECHNOLOGY (CHANGZHOU)CO., LTD	-
Laptop 2	LG15N54	411NZJV044052	LG ELECTRONICS NANJING NEW TECHNOLOGY CO., LTD	-
Laptop 2 Adapter	PA-1900-14	-	LITE-ON TECHNOLOGY (CHANGZHOU)CO., LTD	-
PoE Injector	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co., Ltd	-
LED Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-



1.6 External I/O Cabling

■ DC-HDMI, DC-CAMERA MODE

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
Public view monitor (EUT)	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
	DC JACK	AC/DC ADAPTOR	DC JACK	1.0	U
	ALARM IN	Button Alarm	Alarm Out	3.1	U
	ALARM OUT	LED Alarm	Alarm In	3.1	U
	PoE	Laptop 1	RJ-45	3.1	S
	HDMI 1		HDMI	1.6	S
	HDMI 2	Laptop 2	HDMI	1.6	S
	IR	IR REMOCON	IR	-	-
Laptop 1	DC jack	Laptop Adapter 1	DC jack	1.5	U
Laptop 2	DC jack	Laptop Adapter 2	DC jack	1.5	U

* Unshielded=U, Shielded=S

■ PoE-HDMI, PoE-CAMERA MODE

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
Public view monitor (EUT)	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
	PoE	PoE Injector	RJ-45 (PoE)	3.1	S
	ALARM IN	Button Alarm	Alarm Out	3.1	U
	ALARM OUT	LED Alarm	Alarm In	3.1	U
	HDMI 1	Laptop 1	HDMI	1.6	S
	HDMI 2	Laptop 2	HDMI	1.6	S
	IR	IR REMOCON	IR	-	-
PoE Injector	RJ-45 (DATA)	Laptop	RJ-45	2.5	U
Laptop 1	DC jack	Laptop Adapter 1	DC jack	1.5	U
Laptop 2	DC jack	Laptop Adapter 2	DC jack	1.5	U

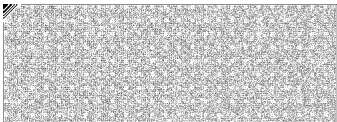
* Unshielded=U, Shielded=S



1.7 EUT Operating Mode(s)

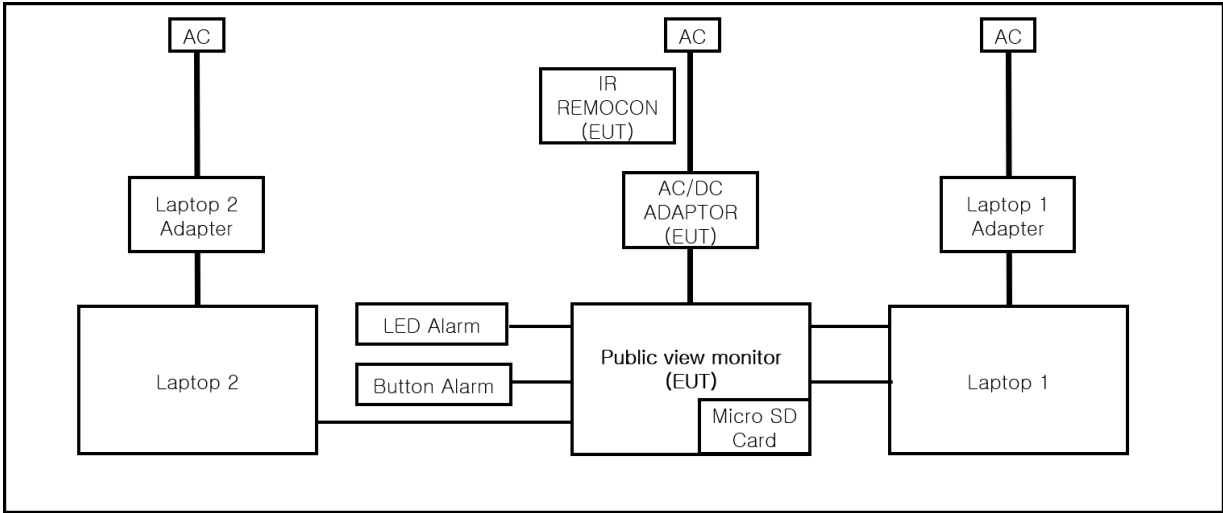
Test mode	operating
Operation MODE (DC-HDMI, DC-CAMERA MODE PoE-HDMI, PoE-CAMERA MODE)	Monitoring EUT Using Web Viewer, Ping Test HDMI : The screen of the laptop is output on the EUT as HDMI. CAMERA : The camera screen is output on the EUT. SD CARD : After the test, check if the EUT video has been recorded normally.

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

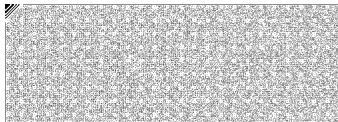
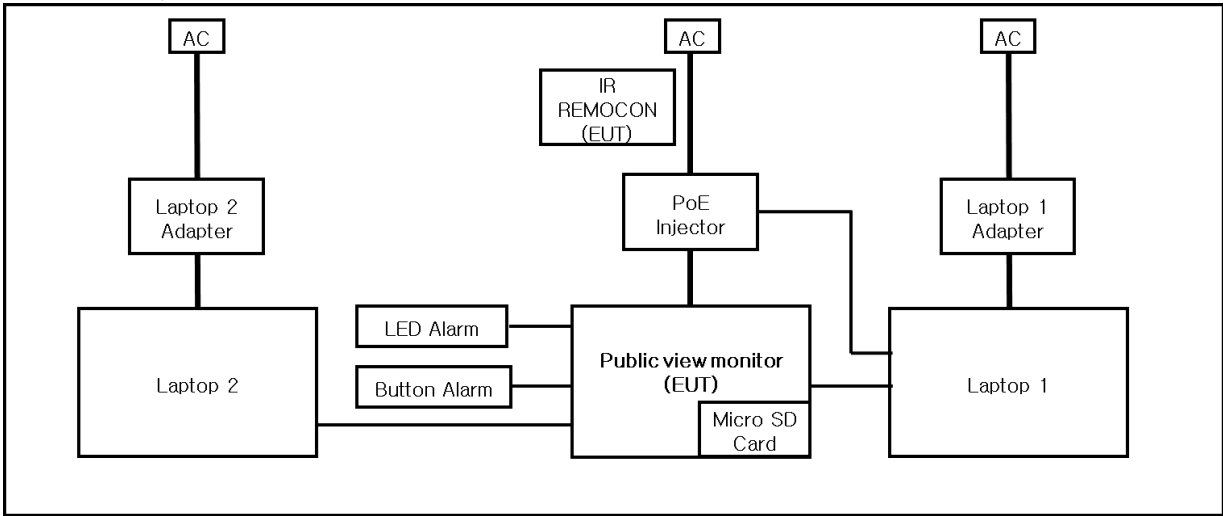


1.8 Configuration

■ DC-HDMI, DC-CAMERA MODE



■ PoE-HDMI, PoE-CAMERA MODE



1.9 Remarks when standards applied

- The USB port was excluded from the test because it was for administrators.
- The PoE mode of this test equipment receives PoE power, and the PoE port is considered a wired network port, so the test items related to the power port are not applicable.

1.10 Calibration Details of Equipment Used for Measurement

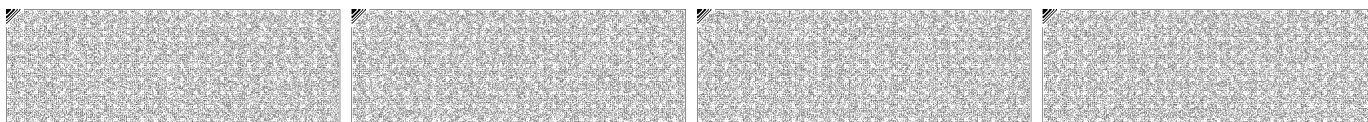
Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

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:

- ☒ 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

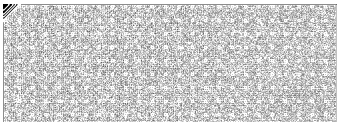
☐ Class A

☐ Class B

☒ ANSI C63.4a-2017

☒ Class A

☐ Class B



2.1 Conducted Emissions at Mains Power Ports

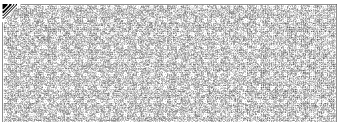
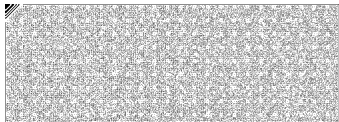
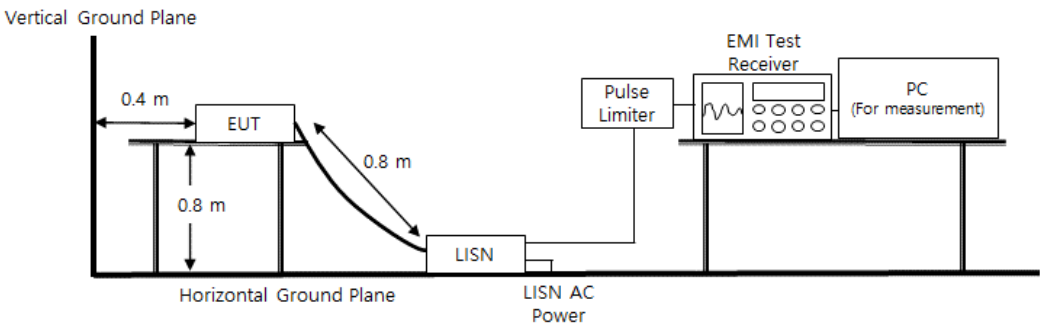
Test Date
Oct. 17, 2023

Test Location
Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test SW	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 11, 2023
☒	LISN	ENV216	R & S	101787	11, 10, 2023
☒	LISN	ESH2-Z5	R & S	100450	11, 10, 2023
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 10, 2023

Diagram of test setup



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Test Conditions

Temperature: (23,1 ± 0,1) °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 Radiated Electric Field Emissions(Below 1 GHz)

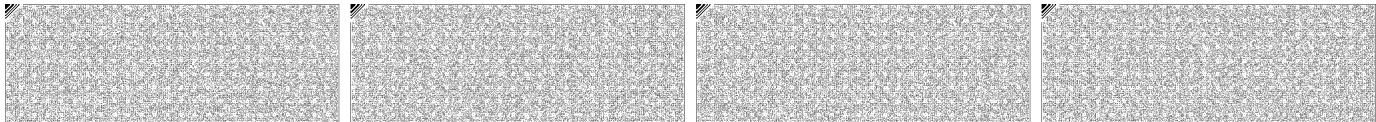
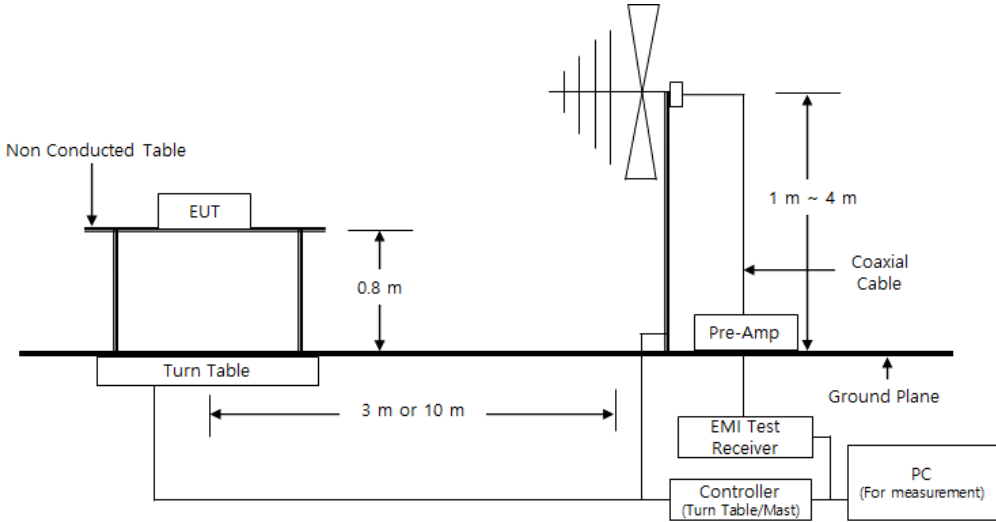
Test Date
Oct. 07, 2023

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	03, 21, 2024
☒	AMPLIFIER	SCU 01	R & S	100603	11, 10, 2023
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 17, 2024
☒	ATTENUATOR	8491A	HP	32173	03, 03, 2024

Diagram of test setup



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Test Conditions

Temperature: (22,9 ± 0,1) °C
Relative Humidity: (45,2 ± 0,1) % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

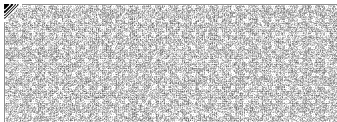
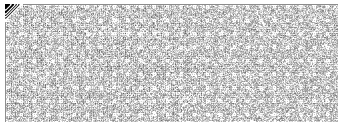
Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.



2.3 Radiated Electric Field Emissions(Above 1 GHz)

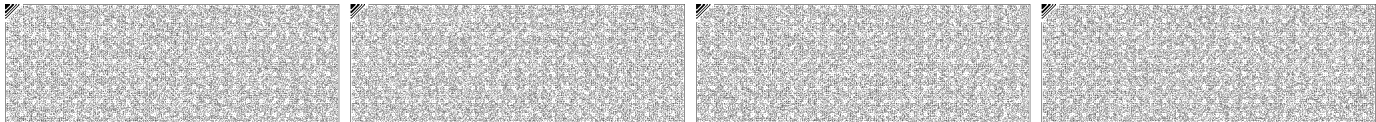
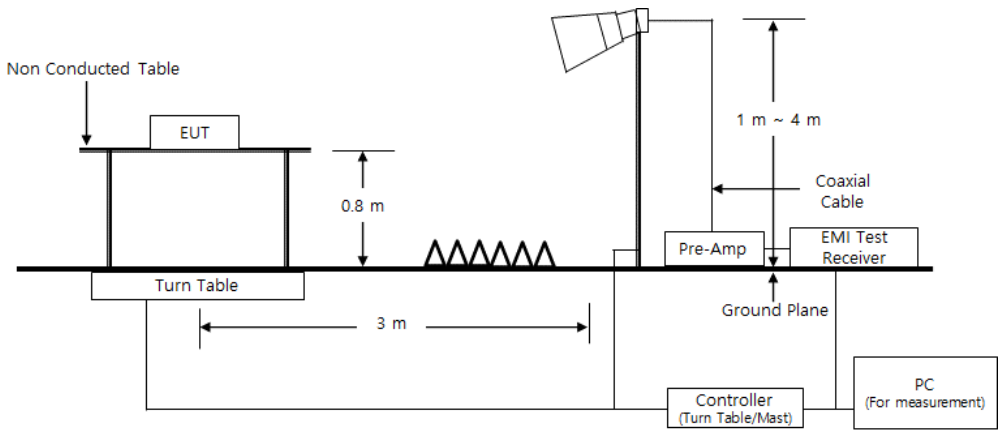
Test Date
Oct. 06, 2023

Test Location
SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	ES10/RE	TOYO Corporation	2022.01.000	-
☒	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	03, 21, 2024
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	11, 08, 2023
☒	PREAMPLIFIER	8449B	HP	3008A00538	05, 31, 2024
☒	ATTENUATOR	8491B	HP	23094	03, 21, 2024

Diagram of test setup



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Test Conditions

Temperature: (23,3 ± 0,2) °C
Relative Humidity: (47,5 ± 0,2) % 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

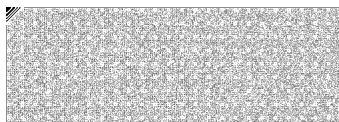
Remarks

- See Appendix A for test data.
-The Average of the test data is the cispr average result.

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

KES Co., Ltd.

The authenticity of the test report, contact kes@kes.co.kr



APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

■ DC-HDMI MODE

HOT LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

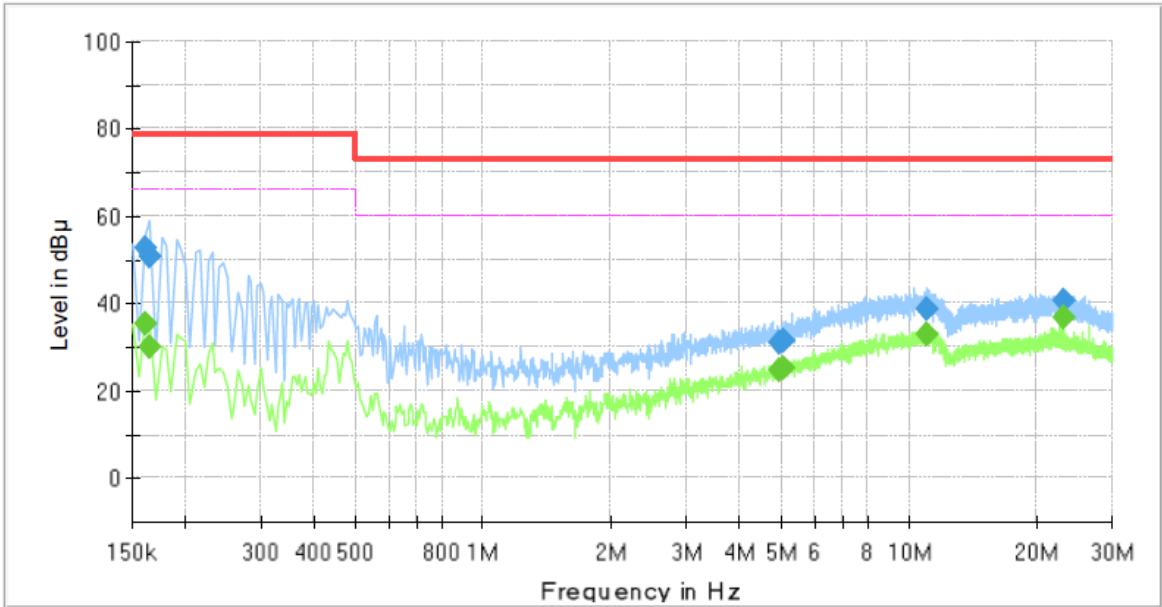
Conducted Emission

SMT-3231PV

H

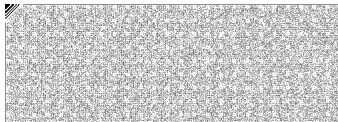
DC_HDMI

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	35.34	66.00	30.66	1000.0	9.000	L1	19.4
0.160000	52.92	---	79.00	26.08	1000.0	9.000	L1	19.4
0.165000	---	30.14	66.00	35.86	1000.0	9.000	L1	19.4
0.165000	50.69	---	79.00	28.31	1000.0	9.000	L1	19.4
4.945000	---	24.79	60.00	35.21	1000.0	9.000	L1	19.7
4.945000	31.02	---	73.00	41.98	1000.0	9.000	L1	19.7
5.075000	---	25.21	60.00	34.79	1000.0	9.000	L1	19.7
5.075000	31.71	---	73.00	41.29	1000.0	9.000	L1	19.7
10.975000	---	32.91	60.00	27.09	1000.0	9.000	L1	19.9
10.975000	38.63	---	73.00	34.37	1000.0	9.000	L1	19.9
23.130000	---	36.83	60.00	23.17	1000.0	9.000	L1	20.3
23.130000	40.80	---	73.00	32.20	1000.0	9.000	L1	20.3

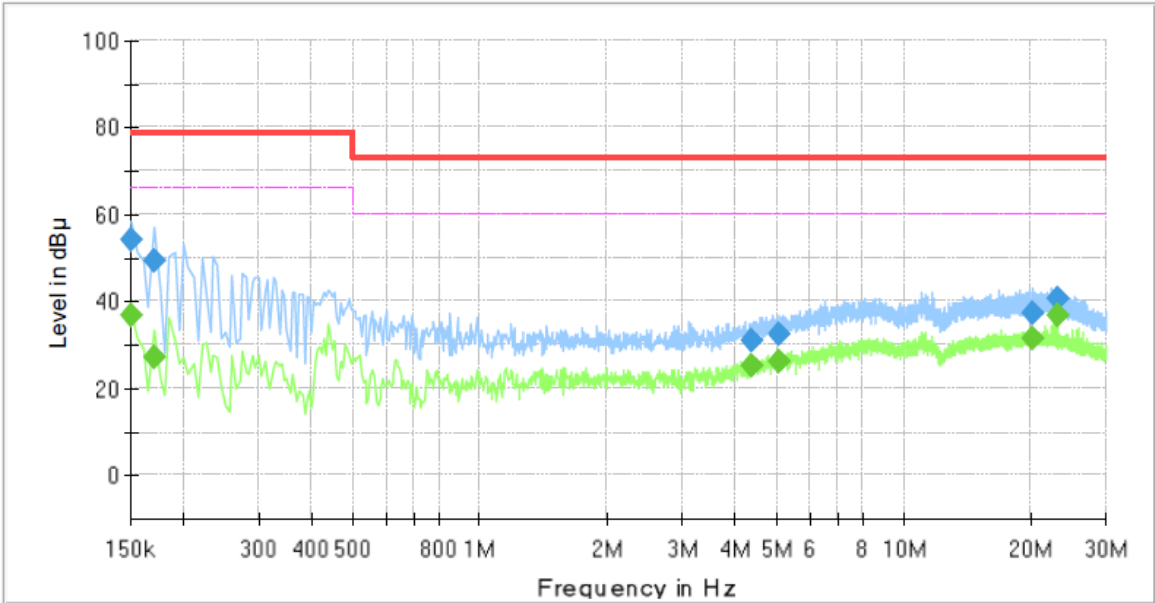


NEUTRAL LINE

Common Information

Test Description:
Model No.:
Phase:
Mode:
Operator Name:

Conducted Emission
SMT-3231PV
N
DC_HDMI
KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	53.98	---	79.00	25.02	1000.0	9.000	N	19.4
0.150000	---	36.98	66.00	29.02	1000.0	9.000	N	19.4
0.170000	---	26.98	66.00	39.02	1000.0	9.000	N	19.4
0.170000	49.53	---	79.00	29.47	1000.0	9.000	N	19.4
4.355000	---	25.10	60.00	34.90	1000.0	9.000	N	19.7
4.355000	31.20	---	73.00	41.80	1000.0	9.000	N	19.7
5.090000	---	26.29	60.00	33.71	1000.0	9.000	N	19.7
5.090000	32.55	---	73.00	40.45	1000.0	9.000	N	19.7
20.125000	---	31.55	60.00	28.45	1000.0	9.000	N	20.2
20.125000	37.23	---	73.00	35.77	1000.0	9.000	N	20.2
23.130000	---	36.61	60.00	23.39	1000.0	9.000	N	20.3
23.130000	40.62	---	73.00	32.38	1000.0	9.000	N	20.3



■ DC-CAMERA MODE

HOT LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

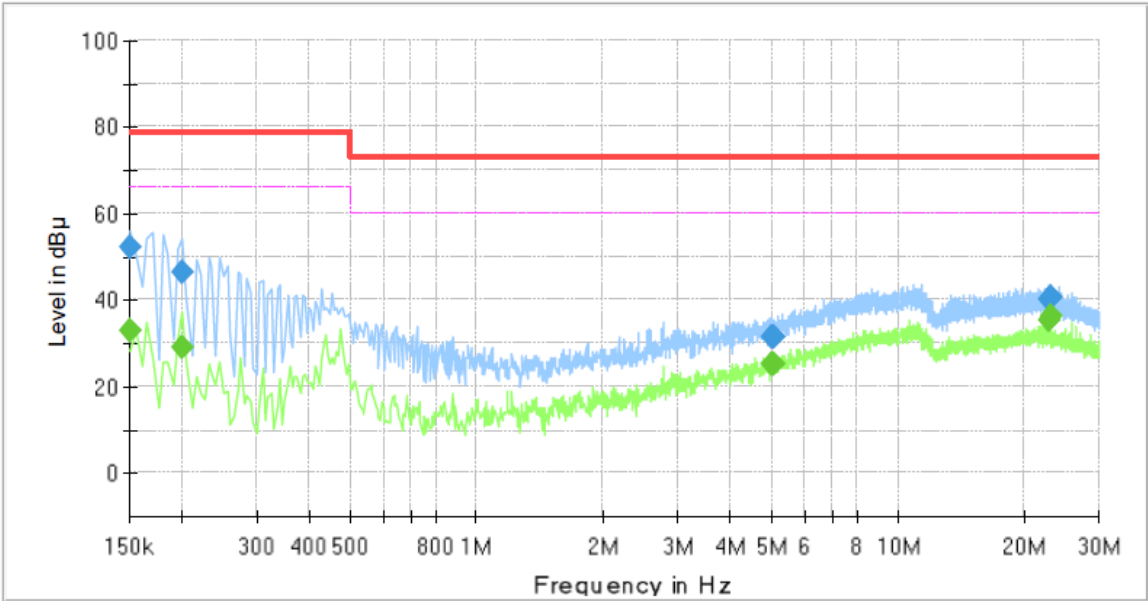
Conducted Emission

SMT-3231PV

H

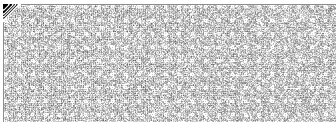
DC_CAMERA

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	32.99	66.00	33.01	1000.0	9.000	L1	19.4
0.150000	52.26	---	79.00	26.74	1000.0	9.000	L1	19.4
0.200000	---	29.12	66.00	36.88	1000.0	9.000	L1	19.4
0.200000	46.42	---	79.00	32.58	1000.0	9.000	L1	19.4
5.025000	---	25.23	60.00	34.77	1000.0	9.000	L1	19.7
5.025000	31.48	---	73.00	41.52	1000.0	9.000	L1	19.7
5.075000	---	25.30	60.00	34.70	1000.0	9.000	L1	19.7
5.075000	31.48	---	73.00	41.52	1000.0	9.000	L1	19.7
22.885000	---	35.29	60.00	24.71	1000.0	9.000	L1	20.2
22.885000	39.97	---	73.00	33.03	1000.0	9.000	L1	20.2
23.130000	---	36.38	60.00	23.62	1000.0	9.000	L1	20.3
23.130000	40.47	---	73.00	32.53	1000.0	9.000	L1	20.3

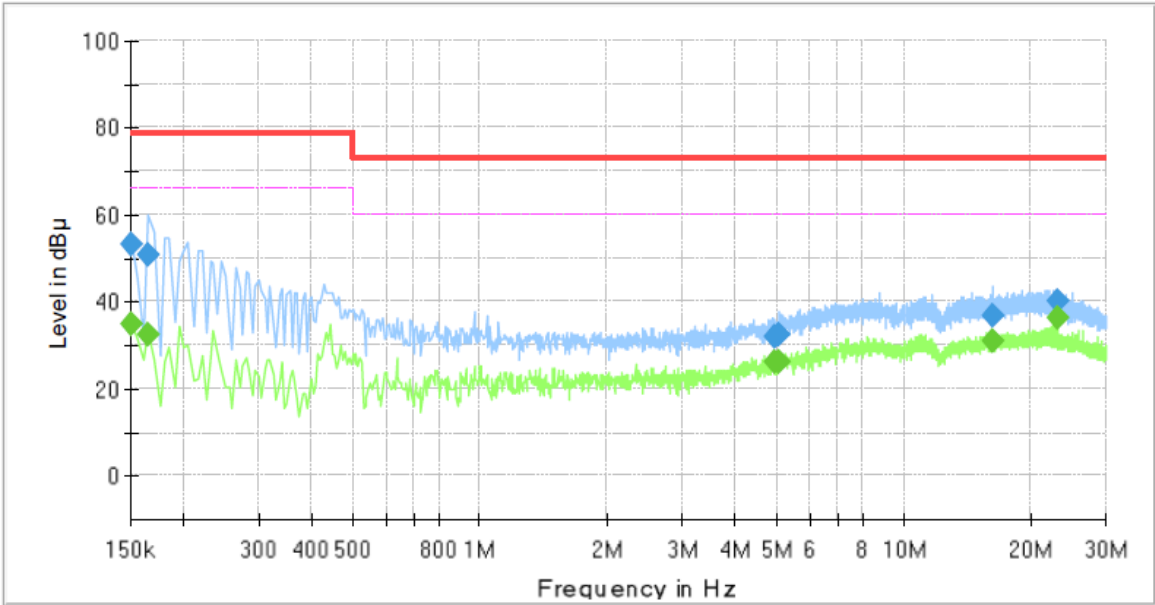


NEUTRAL LINE

Common Information

Test Description:
Model No.:
Phase:
Mode:
Operator Name:

Conducted Emission
SMT-3231PV
N
DC_CAMERA
KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	34.75	66.00	31.25	1000.0	9.000	N	19.4
0.150000	53.20	---	79.00	25.80	1000.0	9.000	N	19.4
0.165000	---	32.22	66.00	33.78	1000.0	9.000	N	19.4
0.165000	50.84	---	79.00	28.16	1000.0	9.000	N	19.4
4.930000	---	26.16	60.00	33.84	1000.0	9.000	N	19.7
4.930000	32.06	---	73.00	40.94	1000.0	9.000	N	19.7
5.070000	---	26.15	60.00	33.85	1000.0	9.000	N	19.7
5.070000	32.27	---	73.00	40.73	1000.0	9.000	N	19.7
16.220000	---	30.79	60.00	29.21	1000.0	9.000	N	20.1
16.220000	36.60	---	73.00	36.40	1000.0	9.000	N	20.1
23.130000	---	36.30	60.00	23.70	1000.0	9.000	N	20.3
23.130000	40.38	---	73.00	32.62	1000.0	9.000	N	20.3



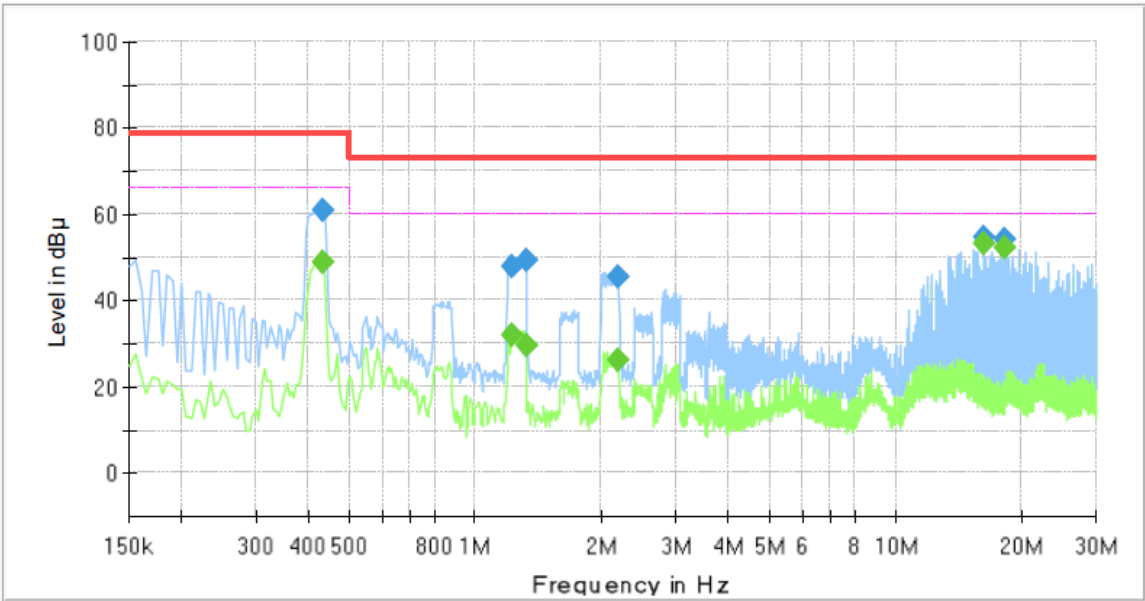
■ PoE-HDMI MODE

HOT LINE

Common Information

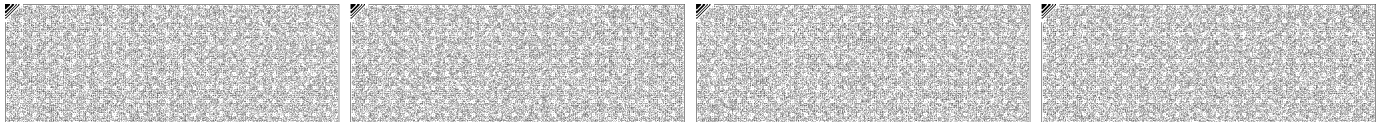
Test Description:
Model No.:
Phase:
Mode:
Operator Name:

Conducted Emission
SMT-3231PV
H
PoE_HDMI
KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.435000	60.82	---	79.00	18.18	1000.0	9.000	L1	19.4
0.435000	---	49.08	66.00	16.92	1000.0	9.000	L1	19.4
1.225000	47.83	---	73.00	25.17	1000.0	9.000	L1	19.5
1.225000	---	32.08	60.00	27.92	1000.0	9.000	L1	19.5
1.315000	49.36	---	73.00	23.64	1000.0	9.000	L1	19.5
1.315000	---	29.72	60.00	30.28	1000.0	9.000	L1	19.5
2.190000	45.37	---	73.00	27.63	1000.0	9.000	L1	19.5
2.190000	---	26.26	60.00	33.74	1000.0	9.000	L1	19.5
16.230000	---	53.10	60.00	6.90	1000.0	9.000	L1	20.1
16.230000	54.44	---	73.00	18.56	1000.0	9.000	L1	20.1
18.245000	---	52.37	60.00	7.63	1000.0	9.000	L1	20.2
18.245000	53.96	---	73.00	19.04	1000.0	9.000	L1	20.2

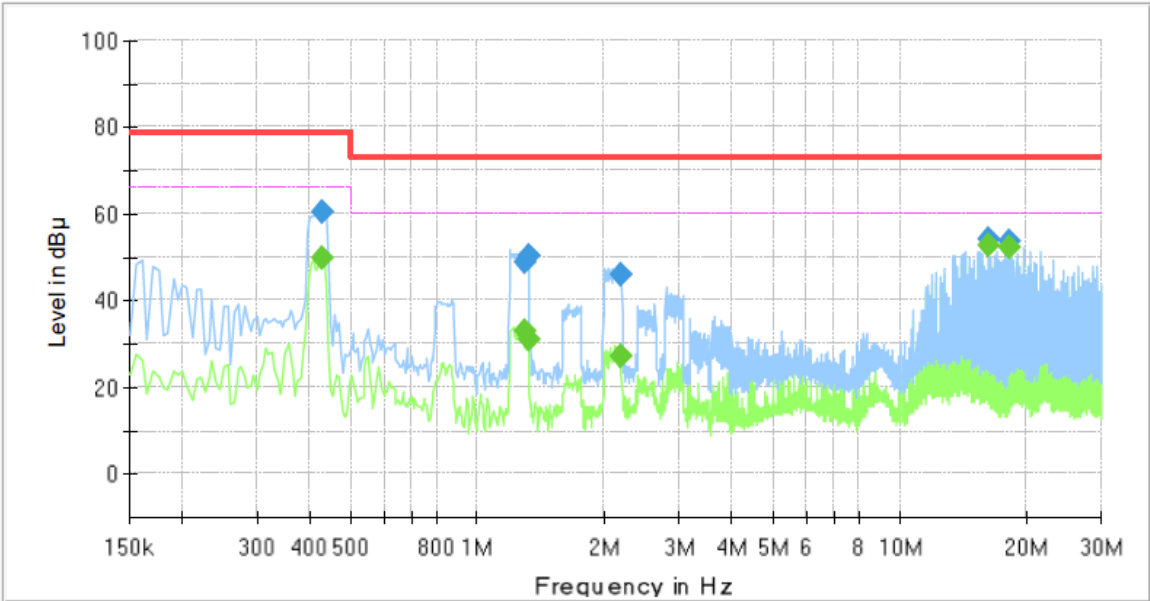


NEUTRAL LINE

Common Information

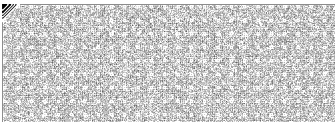
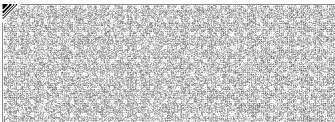
Test Description:
Model No.:
Phase:
Mode:
Operator Name:

Conducted Emission
SMT-3231PV
N
PoE_HDMI
KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.430000	60.24	---	79.00	18.76	1000.0	9.000	N	19.4
0.430000	---	49.99	66.00	16.01	1000.0	9.000	N	19.4
1.285000	49.09	---	73.00	23.91	1000.0	9.000	N	19.5
1.285000	---	33.13	60.00	26.87	1000.0	9.000	N	19.5
1.315000	50.45	---	73.00	22.55	1000.0	9.000	N	19.5
1.315000	---	31.09	60.00	28.91	1000.0	9.000	N	19.5
2.190000	46.14	---	73.00	26.86	1000.0	9.000	N	19.5
2.190000	---	27.03	60.00	32.97	1000.0	9.000	N	19.5
16.230000	---	52.92	60.00	7.08	1000.0	9.000	N	20.1
16.230000	54.29	---	73.00	18.71	1000.0	9.000	N	20.1
18.245000	---	52.14	60.00	7.86	1000.0	9.000	N	20.2
18.245000	53.82	---	73.00	19.18	1000.0	9.000	N	20.2



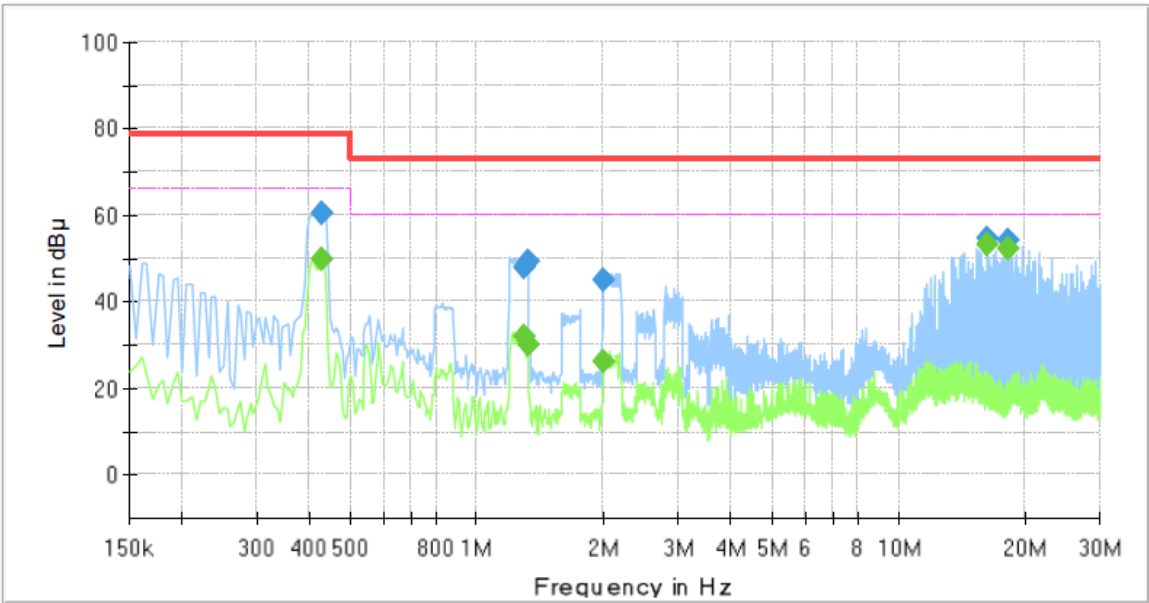
■ PoE-CAMERA MODE

HOT LINE

Common Information

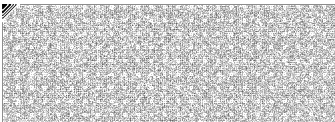
Test Description:
Model No.:
Phase:
Mode:
Operator Name:

Conducted Emission
SMT-3231PV
H
PoE_CAMERA
KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.430000	60.62	---	79.00	18.38	1000.0	9.000	L1	19.4
0.430000	---	49.80	66.00	16.20	1000.0	9.000	L1	19.4
1.285000	48.01	---	73.00	24.99	1000.0	9.000	L1	19.5
1.285000	---	31.98	60.00	28.02	1000.0	9.000	L1	19.5
1.315000	49.40	---	73.00	23.60	1000.0	9.000	L1	19.5
1.315000	---	30.04	60.00	29.96	1000.0	9.000	L1	19.5
1.995000	45.00	---	73.00	28.00	1000.0	9.000	L1	19.5
1.995000	---	26.14	60.00	33.86	1000.0	9.000	L1	19.5
16.230000	---	53.12	60.00	6.88	1000.0	9.000	L1	20.1
16.230000	54.58	---	73.00	18.42	1000.0	9.000	L1	20.1
18.245000	---	52.40	60.00	7.60	1000.0	9.000	L1	20.2
18.245000	54.07	---	73.00	18.93	1000.0	9.000	L1	20.2

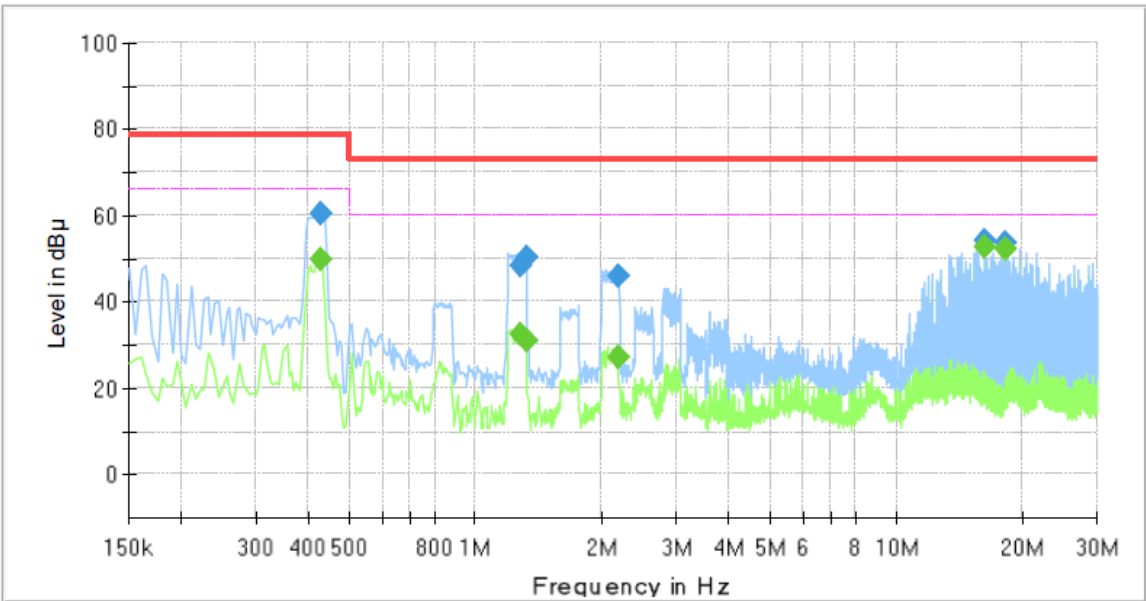


NEUTRAL LINE

Common Information

Test Description:
Model No.:
Phase:
Mode:
Operator Name:

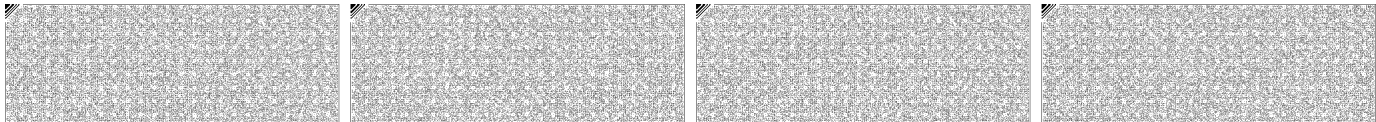
Conducted Emission
SMT-3231PV
N
PoE_CAMERA
KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.430000	60.23	---	79.00	18.77	1000.0	9.000	N	19.4
0.430000	---	50.02	66.00	15.98	1000.0	9.000	N	19.4
1.280000	48.20	---	73.00	24.80	1000.0	9.000	N	19.5
1.280000	---	32.41	60.00	27.59	1000.0	9.000	N	19.5
1.315000	50.49	---	73.00	22.51	1000.0	9.000	N	19.5
1.315000	---	30.96	60.00	29.04	1000.0	9.000	N	19.5
2.190000	46.07	---	73.00	26.93	1000.0	9.000	N	19.5
2.190000	---	27.01	60.00	32.99	1000.0	9.000	N	19.5
16.230000	---	52.92	60.00	7.08	1000.0	9.000	N	20.1
16.230000	54.32	---	73.00	18.68	1000.0	9.000	N	20.1
18.245000	---	52.19	60.00	7.81	1000.0	9.000	N	20.2
18.245000	53.87	---	73.00	19.13	1000.0	9.000	N	20.2

◆ 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))



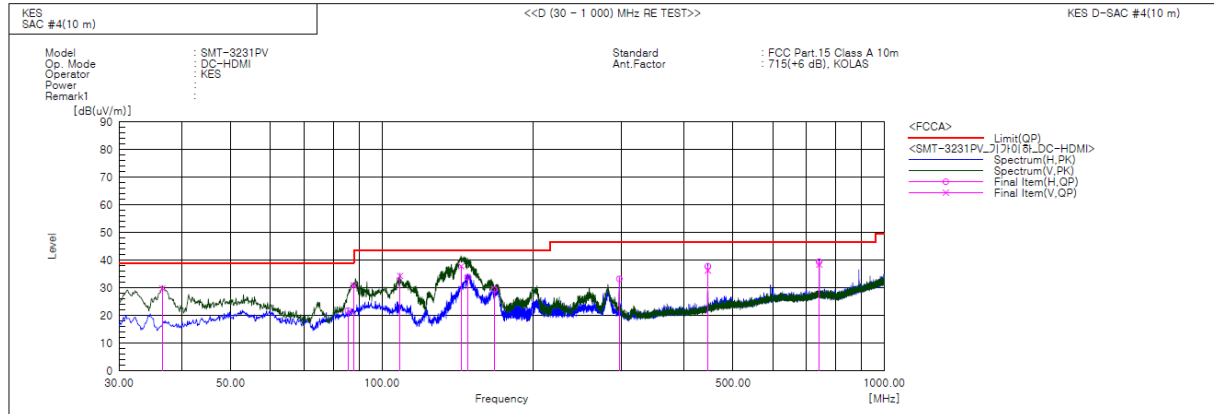
Report No. : KES-EM-23T0940

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Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B

■ DC-HDMI 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	36.548	V	53.4	-23.6	29.8	39.0	9.2	147.0	96.0	
2	85.654	H	47.5	-25.7	21.8	39.0	17.2	400.0	163.0	
3	87.836	V	55.6	-24.7	30.9	39.0	8.1	155.0	119.0	
4	108.691	V	56.7	-22.4	34.3	43.5	9.2	108.0	290.0	
5	143.733	V	62.8	-25.0	37.8	43.5	5.7	100.0	234.0	
6	148.098	H	58.9	-25.0	33.9	43.5	9.6	391.0	212.0	
7	167.619	H	53.7	-24.3	29.4	43.5	14.1	312.0	230.0	
8	296.993	H	50.8	-17.6	33.2	46.5	13.3	227.0	23.0	
9	445.524	H	50.3	-12.5	37.8	46.5	8.7	296.0	186.0	
10	445.524	V	48.8	-12.5	36.3	46.5	10.2	121.0	60.0	
11	741.738	H	45.5	-6.1	39.4	46.5	7.1	305.0	312.0	
12	742.586	V	44.5	-6.1	38.4	46.5	8.1	116.0	11.0	

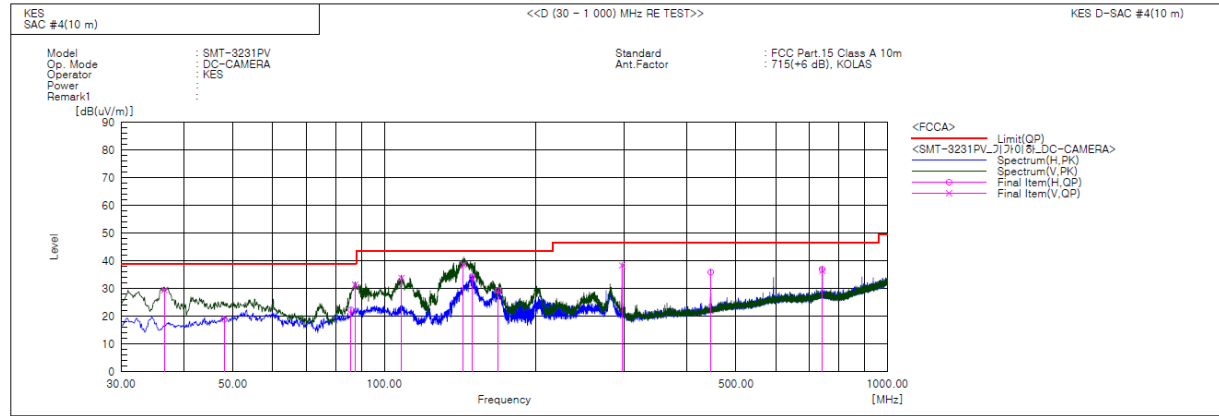
KES-QP16-F01(00-23-01-01)

KES Co., Ltd.

The authenticity of the test report, contact kes@kes.co.kr

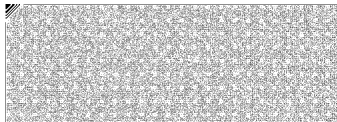


DC-CAMERA MODE

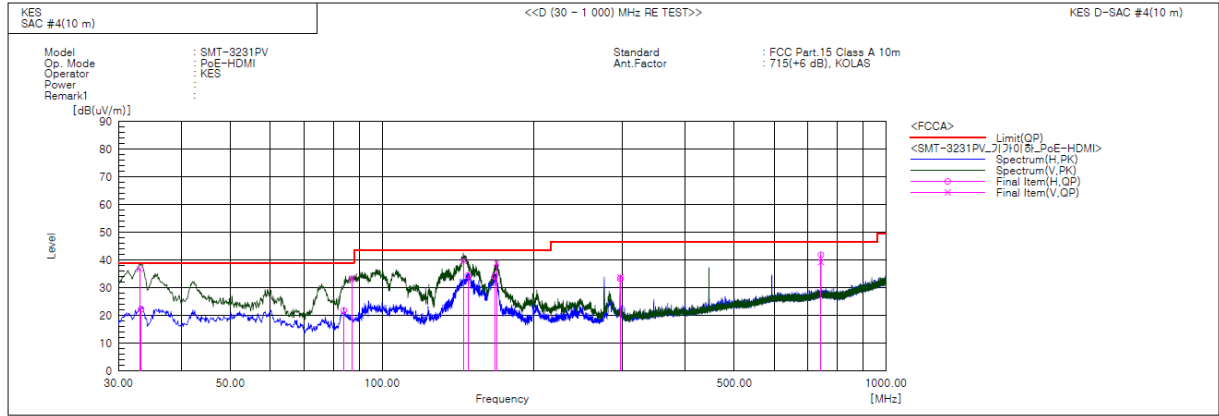


Final Result

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	36.548	V	53.1	-23.6	29.5	39.0	9.5	129.0	67.0	
2	48.066	H	39.4	-20.5	18.9	39.0	20.1	289.0	287.0	
3	85.896	H	47.9	-25.6	22.3	39.0	16.7	354.0	154.0	
4	87.594	V	56.2	-24.8	31.4	39.0	7.6	144.0	123.0	
5	108.206	V	56.2	-22.4	33.8	43.5	9.7	122.0	314.0	
6	143.611	V	63.6	-25.0	38.6	43.5	4.9	100.0	220.0	
7	149.431	H	59.3	-25.0	34.3	43.5	9.2	303.0	206.0	
8	168.589	H	53.6	-24.2	29.4	43.5	14.1	400.0	154.0	
9	296.993	V	55.9	-17.6	38.3	46.5	8.2	115.0	359.0	
10	445.524	H	48.4	-12.5	35.9	46.5	10.6	259.0	180.0	
11	741.738	H	43.0	-6.1	36.9	46.5	9.6	391.0	222.0	
12	742.465	V	42.5	-6.1	36.4	46.5	10.1	107.0	7.0	

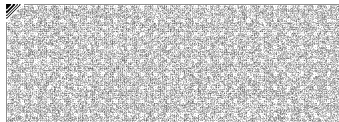
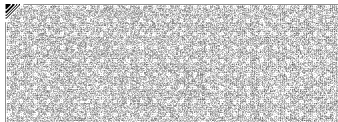


PoE-HDMI MODE

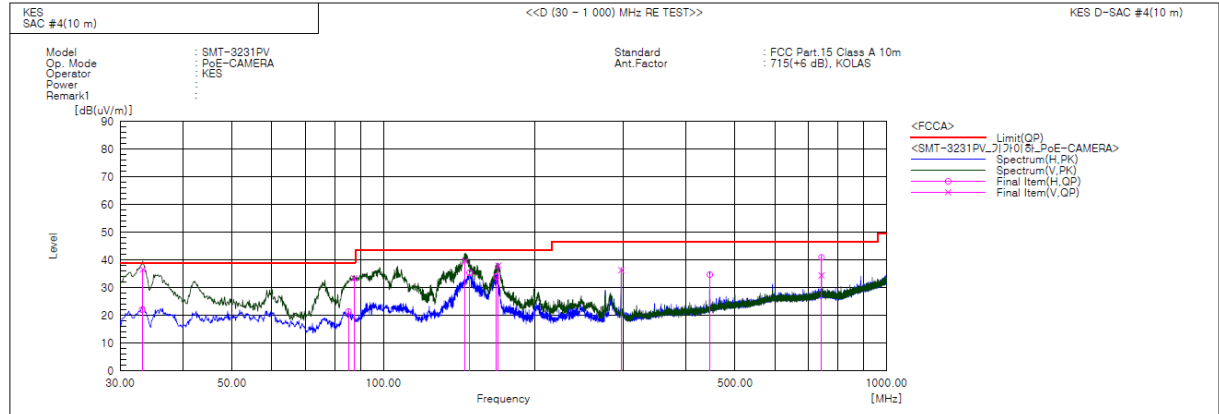


Final Result

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	33.031	V	61.2	-24.5	36.7	39.0	2.3	100.0	17.0	
2	33.274	H	46.7	-24.4	22.3	39.0	16.7	315.0	250.0	
3	83.956	H	48.2	-26.4	21.8	39.0	17.2	366.0	324.0	
4	87.109	V	58.4	-25.0	33.4	39.0	5.6	108.0	195.0	
5	144.945	V	64.7	-25.0	39.7	43.5	3.8	124.0	267.0	
6	147.976	H	59.4	-25.0	34.4	43.5	9.1	392.0	231.0	
7	167.498	H	58.5	-24.3	34.2	43.5	9.3	296.0	235.0	
8	168.831	V	63.1	-24.2	38.9	43.5	4.6	115.0	260.0	
9	296.993	V	51.4	-17.6	33.8	46.5	12.7	167.0	226.0	
10	296.993	H	50.9	-17.6	33.3	46.5	13.2	314.0	39.0	
11	742.465	V	45.4	-6.1	39.3	46.5	7.2	145.0	219.0	
12	742.586	H	48.0	-6.1	41.9	46.5	4.6	400.0	317.0	

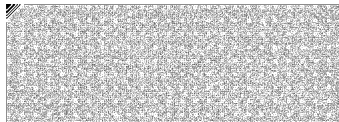
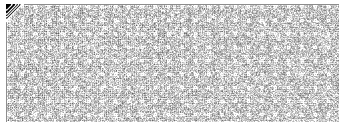


PoE-CAMERA MODE



Final Result

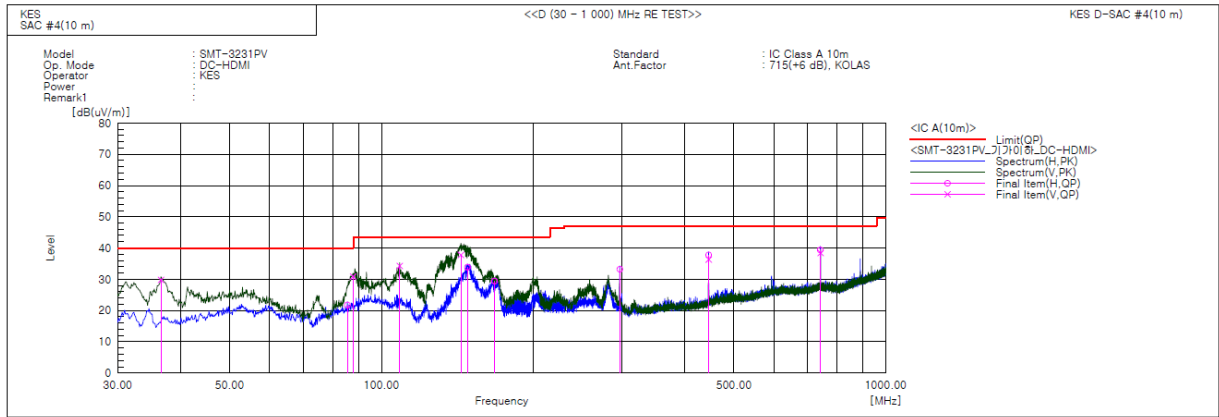
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	33.153	H	46.6	-24.5	22.1	39.0	16.9	346.0	217.0	
2	33.274	V	61.0	-24.4	36.6	39.0	2.4	100.0	121.0	
3	85.290	H	47.2	-25.8	21.4	39.0	17.6	400.0	334.0	
4	87.473	V	58.3	-24.9	33.4	39.0	5.6	117.0	200.0	
5	145.430	V	64.5	-25.0	39.5	43.5	4.0	100.0	288.0	
6	148.340	H	60.4	-25.0	35.4	43.5	8.1	366.0	229.0	
7	167.861	H	58.2	-24.2	34.0	43.5	9.5	312.0	225.0	
8	169.316	V	62.1	-24.1	38.0	43.5	5.5	124.0	273.0	
9	296.993	V	53.9	-17.6	36.3	46.5	10.2	106.0	243.0	
10	445.524	H	47.2	-12.5	34.7	46.5	11.8	279.0	11.0	
11	742.586	V	40.5	-6.1	34.4	46.5	12.1	102.0	125.0	
12	742.586	H	47.0	-6.1	40.9	46.5	5.6	304.0	305.0	



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- IC Regulation ICES-003 Issue 7
■ DC-HDMI 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	36.548	V	53.4	-23.6	29.8	40.0	10.2	147.0	96.0	
2	85.654	H	47.5	-25.7	21.8	40.0	18.2	400.0	163.0	
3	87.836	V	55.6	-24.7	30.9	40.0	9.1	155.0	119.0	
4	108.691	V	56.7	-22.4	34.3	43.5	9.2	108.0	290.0	
5	143.733	V	62.8	-25.0	37.8	43.5	5.7	100.0	234.0	
6	148.098	H	58.9	-25.0	33.9	43.5	9.6	391.0	212.0	
7	167.619	H	53.7	-24.3	29.4	43.5	14.1	312.0	230.0	
8	296.993	H	50.8	-17.6	33.2	47.0	13.8	227.0	23.0	
9	445.524	H	50.3	-12.5	37.8	47.0	9.2	296.0	186.0	
10	445.524	V	48.8	-12.5	36.3	47.0	10.7	121.0	60.0	
11	741.738	H	45.5	-6.1	39.4	47.0	7.6	305.0	312.0	
12	742.586	V	44.5	-6.1	38.4	47.0	8.6	116.0	11.0	

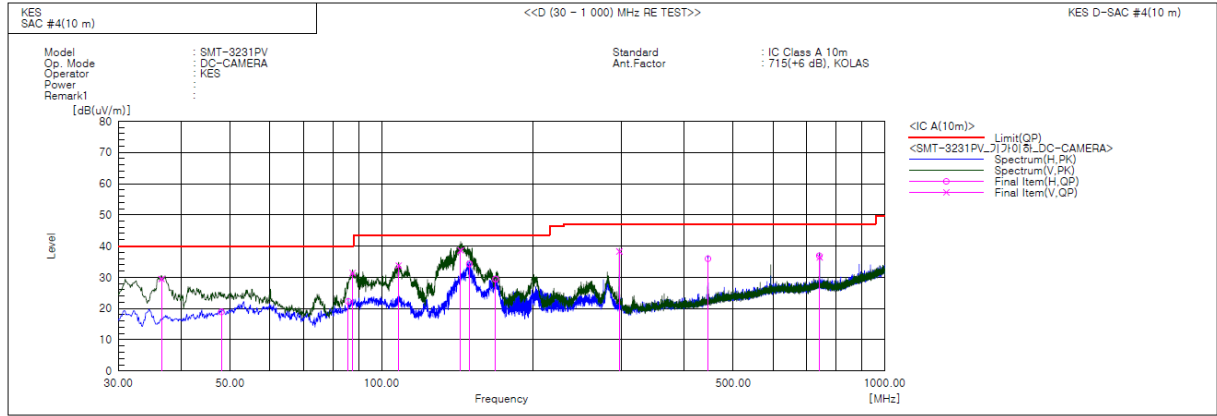
KES-QP16-F01(00-23-01-01)

KES Co., Ltd.

The authenticity of the test report, contact kes@kes.co.kr

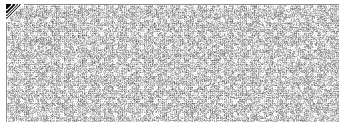
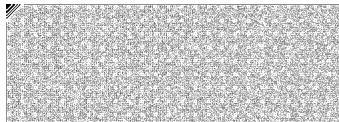


DC-CAMERA MODE

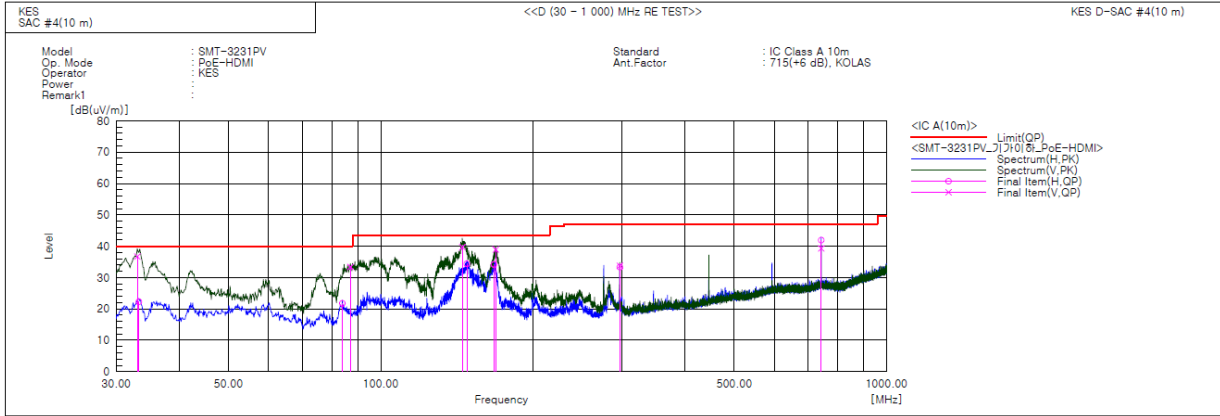


Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	36.548	V	53.1	-23.6	29.5	40.0	10.5	129.0	67.0	
2	48.066	H	39.4	-20.5	18.9	40.0	21.1	289.0	287.0	
3	85.896	H	47.9	-25.6	22.3	40.0	17.7	354.0	154.0	
4	87.594	V	56.2	-24.8	31.4	40.0	8.6	144.0	123.0	
5	108.206	V	56.2	-22.4	33.8	43.5	9.7	122.0	314.0	
6	143.611	V	63.6	-25.0	38.6	43.5	4.9	100.0	220.0	
7	149.431	H	59.3	-25.0	34.3	43.5	9.2	303.0	206.0	
8	168.589	H	53.6	-24.2	29.4	43.5	14.1	400.0	154.0	
9	296.993	V	55.9	-17.6	38.3	47.0	8.7	115.0	359.0	
10	445.524	H	48.4	-12.5	35.9	47.0	11.1	259.0	180.0	
11	741.738	H	43.0	-6.1	36.9	47.0	10.1	391.0	222.0	
12	742.465	V	42.5	-6.1	36.4	47.0	10.6	107.0	7.0	



PoE-HDMI MODE



Final Result

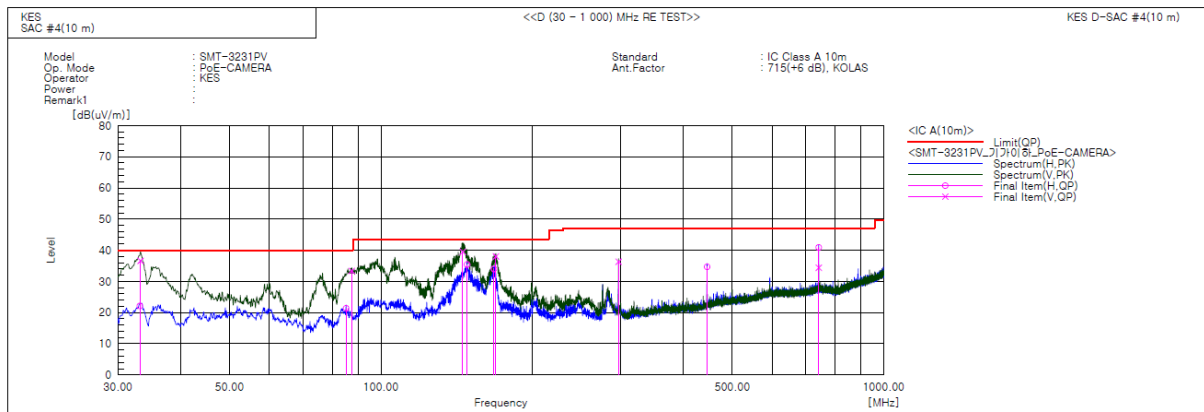
No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	33.031	V	61.2	-24.5	36.7	40.0	3.3	100.0	17.0	
2	33.274	H	46.7	-24.4	22.3	40.0	17.7	315.0	250.0	
3	83.956	H	48.2	-26.4	21.8	40.0	18.2	366.0	324.0	
4	87.109	V	58.4	-25.0	33.4	40.0	6.6	108.0	195.0	
5	144.945	V	64.7	-25.0	39.7	43.5	3.8	124.0	267.0	
6	147.976	H	59.4	-25.0	34.4	43.5	9.1	392.0	231.0	
7	167.498	H	58.5	-24.3	34.2	43.5	9.3	296.0	235.0	
8	168.831	V	63.1	-24.2	38.9	43.5	4.6	115.0	260.0	
9	296.993	V	51.4	-17.6	33.8	47.0	13.2	167.0	226.0	
10	296.993	H	50.9	-17.6	33.3	47.0	13.7	314.0	39.0	
11	742.465	V	45.4	-6.1	39.3	47.0	7.7	145.0	219.0	
12	742.586	H	48.0	-6.1	41.9	47.0	5.1	400.0	317.0	



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PoE-CAMERA 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	33.153	H	46.6	-24.5	22.1	40.0	17.9	346.0	217.0	
2	33.274	V	61.0	-24.4	36.6	40.0	3.4	100.0	121.0	
3	85.290	H	47.2	-25.8	21.4	40.0	18.6	400.0	334.0	
4	87.473	V	58.3	-24.9	33.4	40.0	6.6	117.0	200.0	
5	145.430	V	64.5	-25.0	39.5	43.5	4.0	100.0	288.0	
6	148.340	H	60.4	-25.0	35.4	43.5	8.1	366.0	229.0	
7	167.861	H	58.2	-24.2	34.0	43.5	9.5	312.0	225.0	
8	169.316	V	62.1	-24.1	38.0	43.5	5.5	124.0	273.0	
9	296.993	V	53.9	-17.6	36.3	47.0	10.7	106.0	243.0	
10	445.524	H	47.2	-12.5	34.7	47.0	12.3	279.0	11.0	
11	742.586	V	40.5	-6.1	34.4	47.0	12.6	102.0	125.0	
12	742.586	H	47.0	-6.1	40.9	47.0	6.1	304.0	305.0	

◆ 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

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

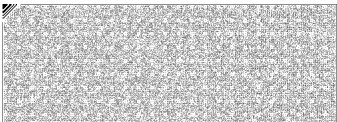
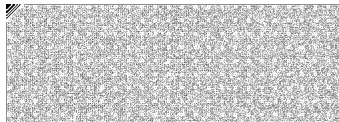
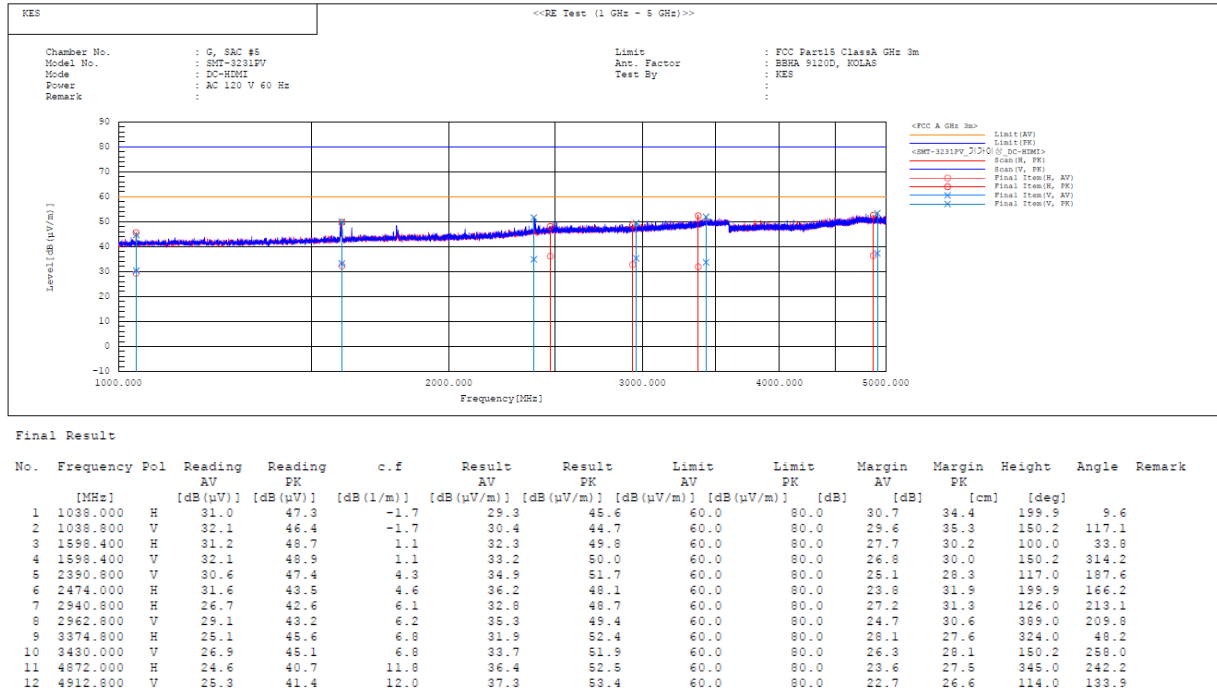
KES Co., Ltd.

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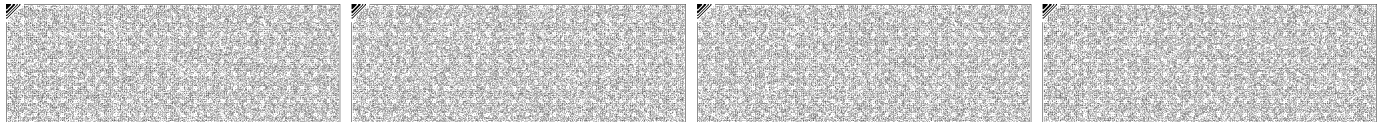
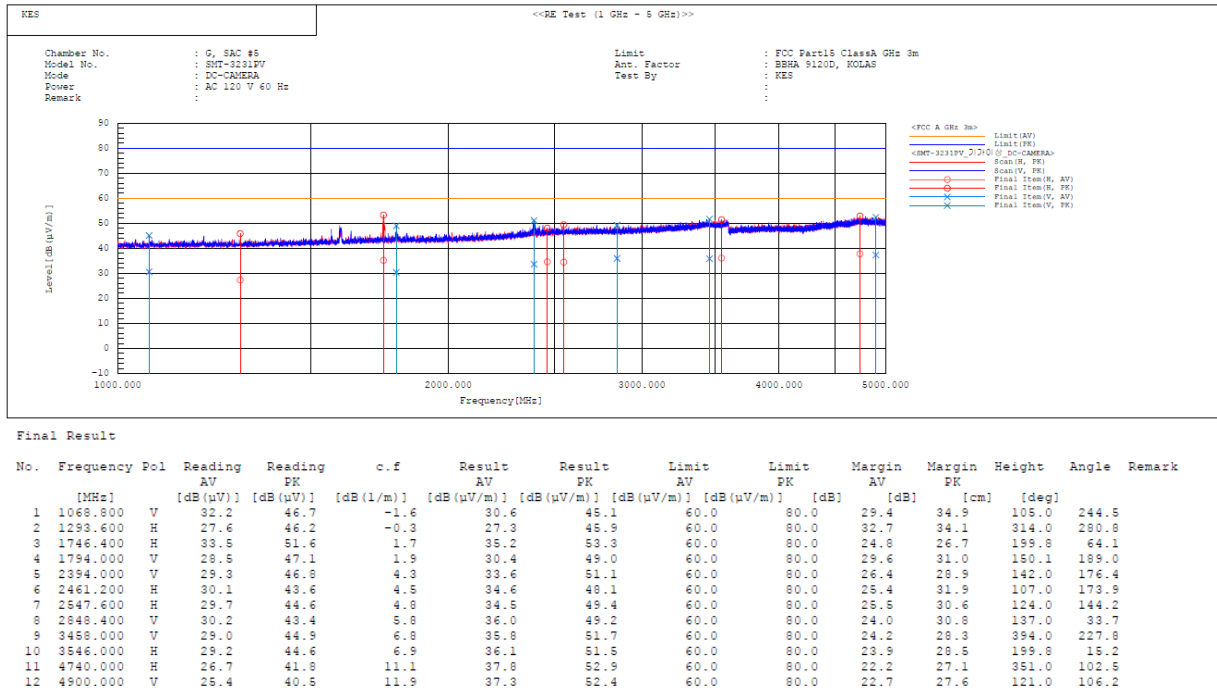


Radiated Electric Field Emissions(Above 1 GHz)

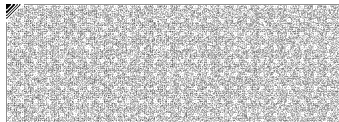
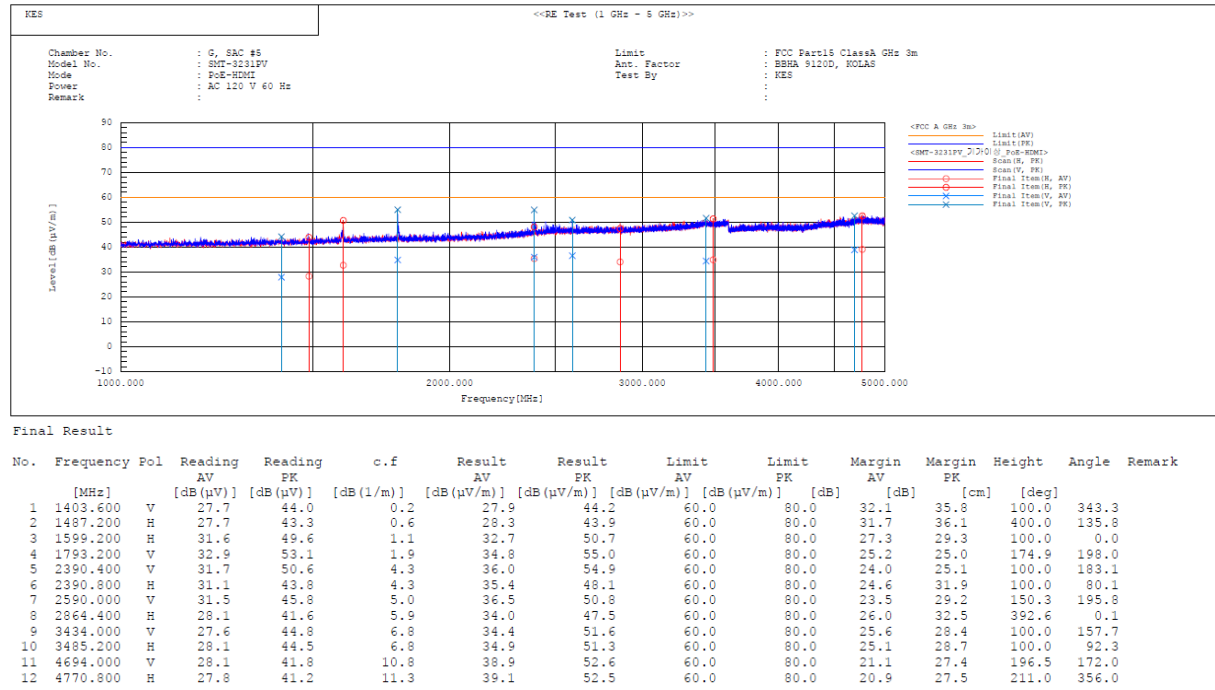
DC-HDMI MODE



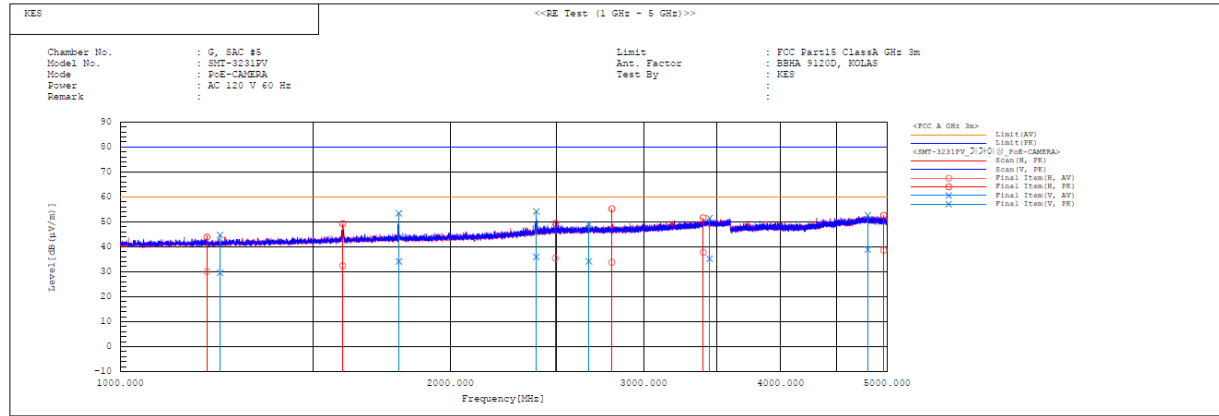
DC-CAMERA MODE



PoE-HDMI MODE



PoE-CAMERA MODE



Final Result													
No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]
1	1200.000	H	30.9	44.7	-0.8	30.1	43.9	60.0	80.0	29.9	36.1	200.2	295.5
2	1233.600	V	30.2	45.3	-0.6	29.6	44.7	60.0	80.0	30.4	35.3	100.0	181.9
3	1595.600	H	31.3	48.2	1.1	32.4	49.3	60.0	80.0	27.6	30.7	100.3	0.2
4	1795.200	V	32.2	51.5	1.9	34.1	53.4	60.0	80.0	25.9	26.6	112.5	188.9
5	2356.000	V	31.6	49.8	4.3	35.9	54.1	60.0	80.0	24.1	25.9	126.9	185.9
6	2452.400	H	30.9	44.8	4.6	35.5	49.4	60.0	80.0	24.5	30.6	289.0	90.5
7	2675.200	V	28.9	43.6	5.3	34.2	48.9	60.0	80.0	25.8	31.1	100.0	303.9
8	2807.200	H	28.2	45.6	5.6	33.8	55.2	60.0	80.0	26.2	24.8	232.0	224.6
9	3400.000	H	30.9	44.8	6.8	37.7	51.6	60.0	80.0	22.3	28.4	100.0	223.8
10	3446.400	V	28.4	44.7	6.8	35.2	51.5	60.0	80.0	24.8	28.5	149.8	277.7
11	4802.400	V	27.5	41.2	11.4	38.9	52.6	60.0	80.0	21.1	27.4	100.0	359.4
12	4965.200	H	26.4	40.4	12.2	38.6	52.6	60.0	80.0	21.4	27.4	310.0	225.0

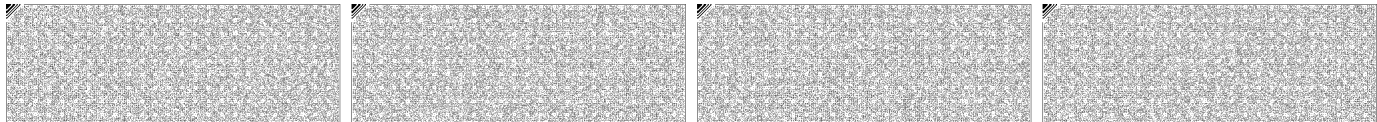
Calculation

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

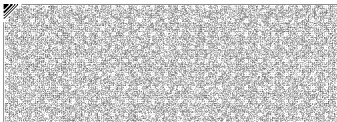
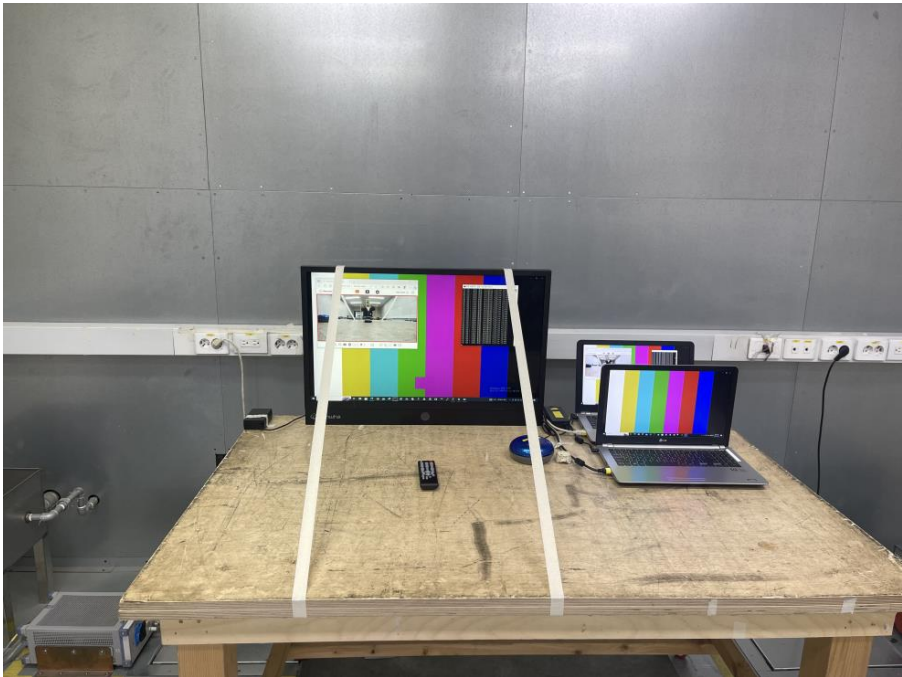
Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

■ DC-HDMI, DC-CAMERA MODE



Report No. : KES-EM-23T0940

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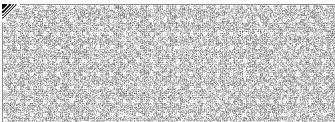
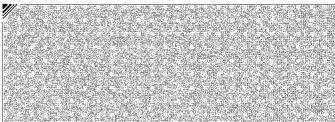
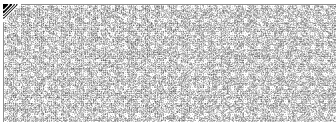
■ PoE-HDMI, PoE-CAMERA MODE



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

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Report No. : KES-EM-23T0940

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Radiated Electric Field Emissions(Below 1 GHz)

■ DC-HDMI, DC-CAMERA MODE



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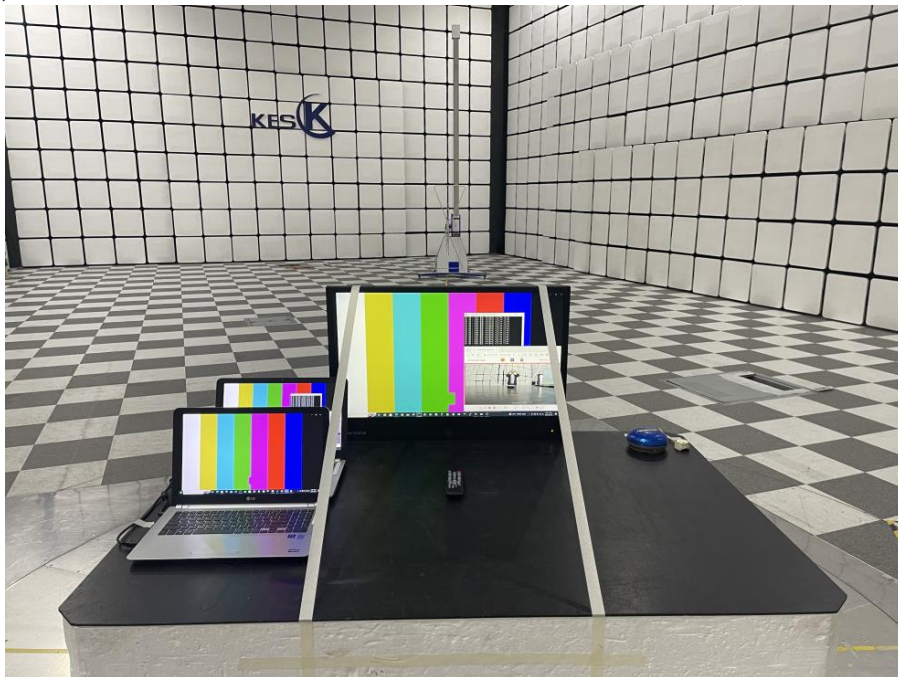
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■ PoE-HDMI, PoE-CAMERA MODE



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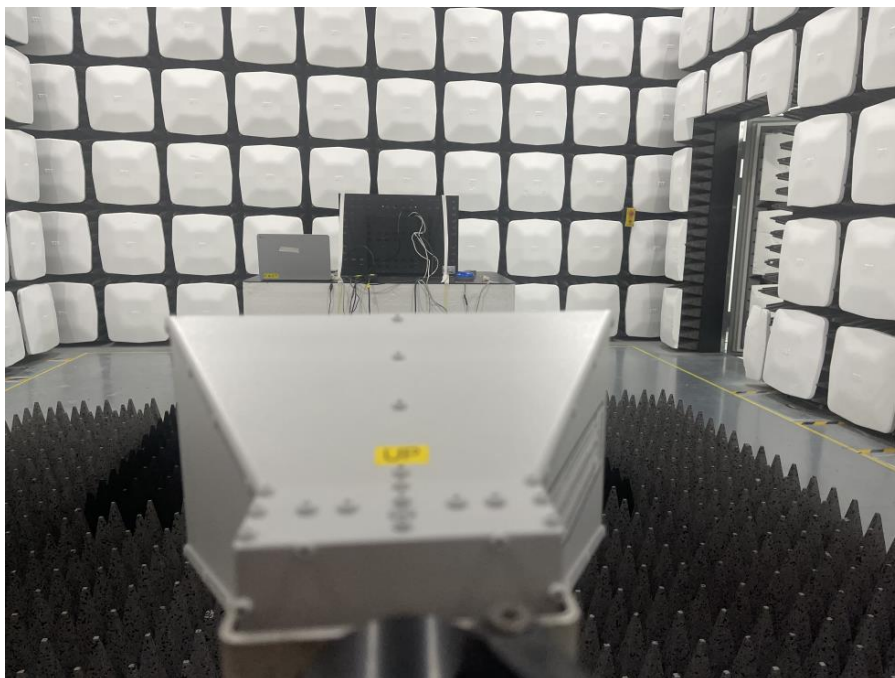
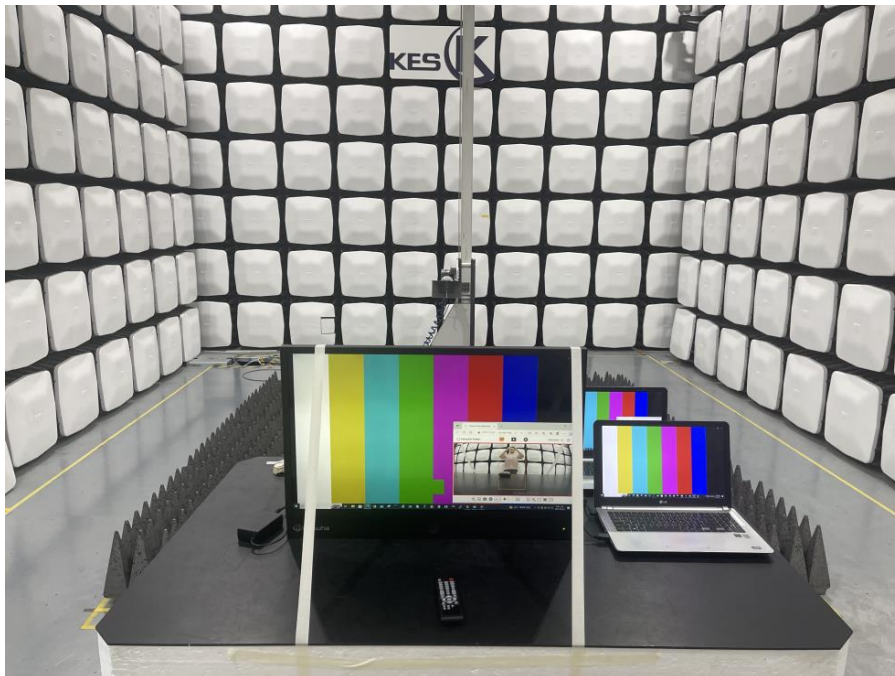


Report No. : KES-EM-23T0940

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Radiated Electric Field Emissions(Above 1 GHz)

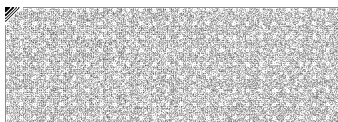
■ DC-HDMI, DC-CAMERA MODE



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

KES Co., Ltd.

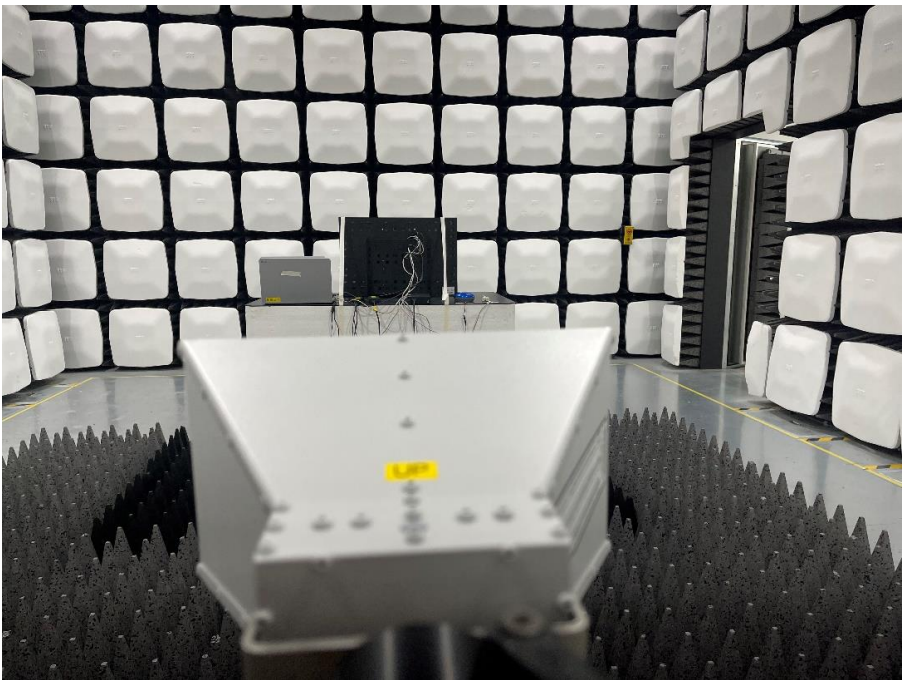
The authenticity of the test report, contact kes@kes.co.kr



Report No. : KES-EM-23T0940

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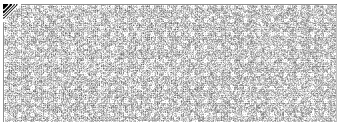
■ PoE-HDMI, PoE-CAMERA MODE



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

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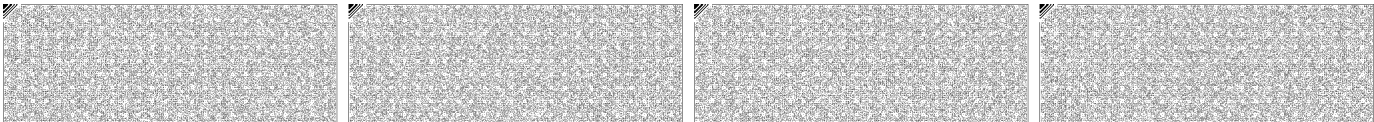


EUT External Photographs

(Top)

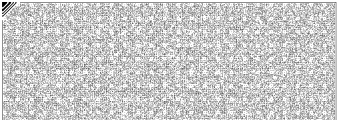
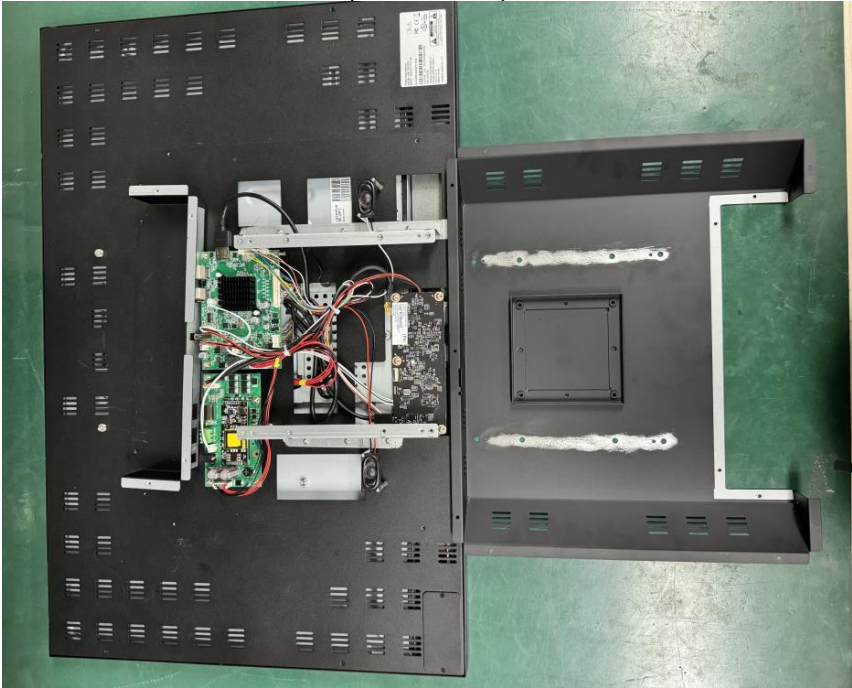


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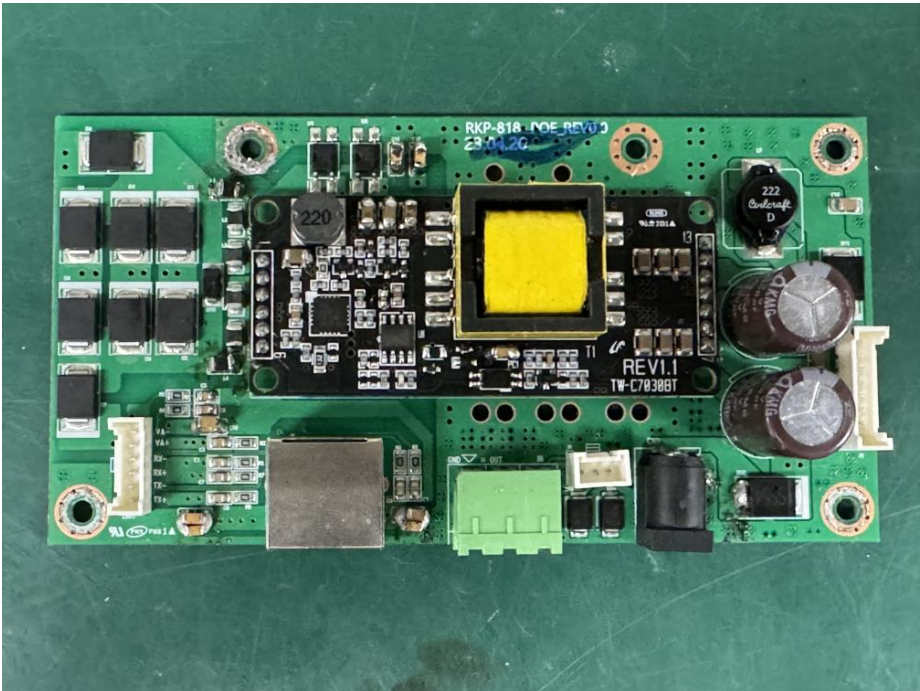
EUT Internal Photographs

(Internal View)

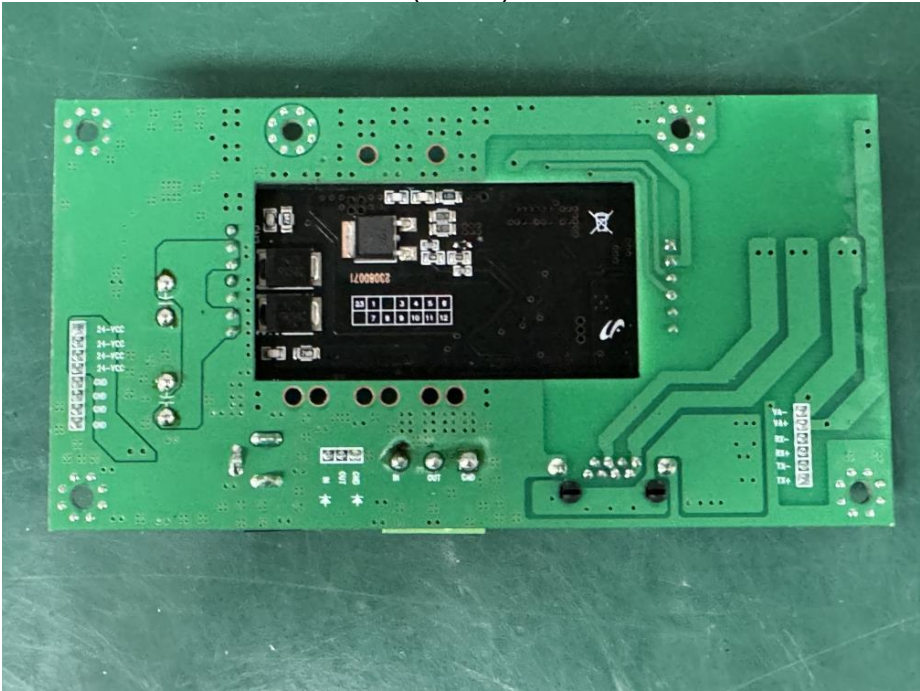


EUT Internal View – Board 1

(Top)

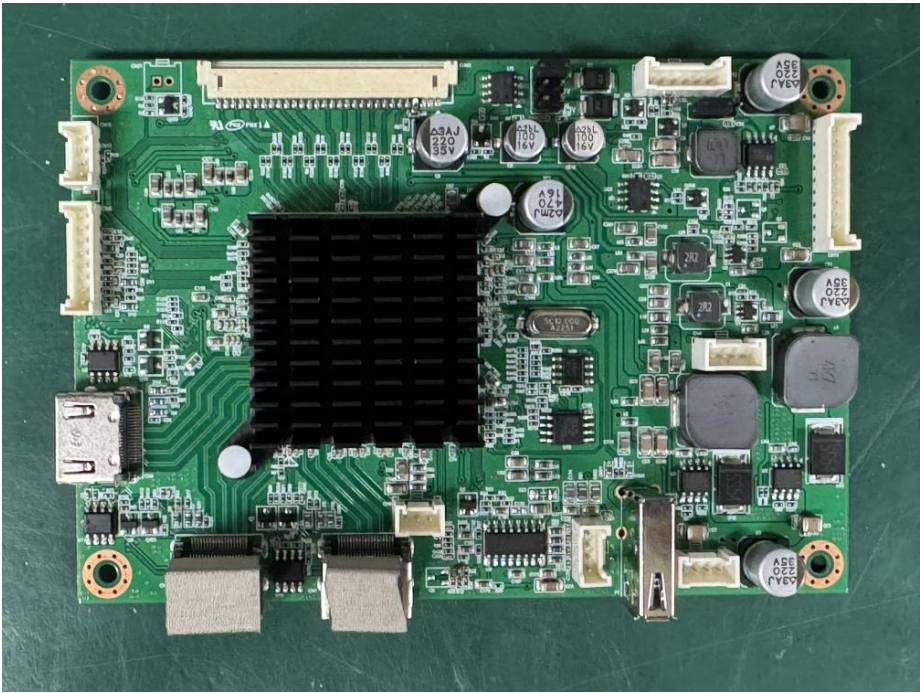


(Bottom)

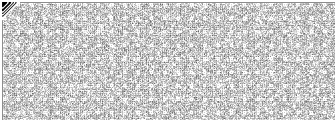
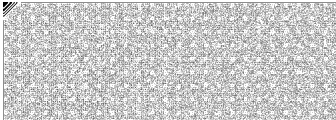
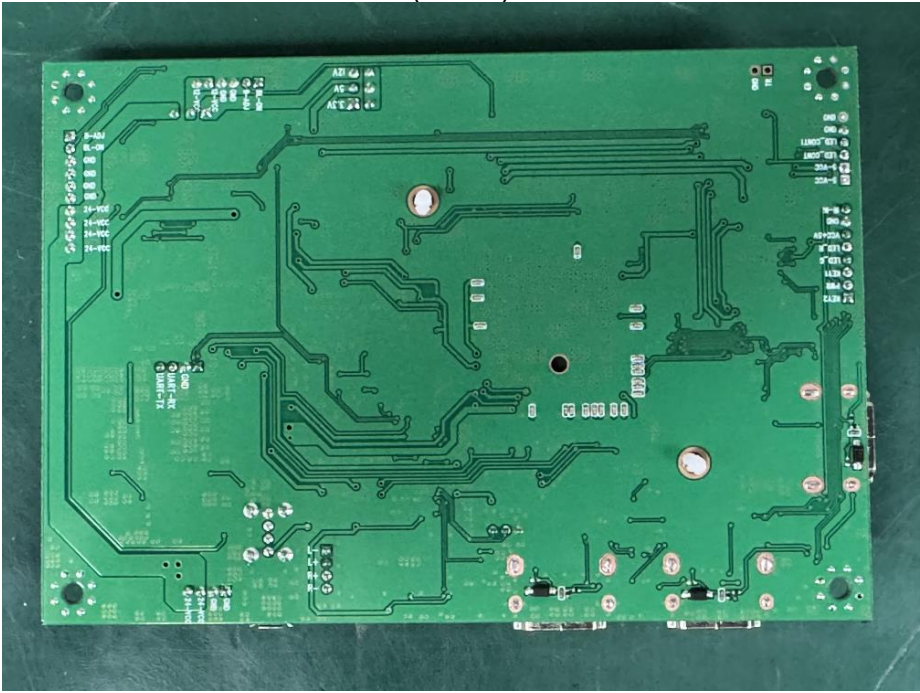


EUT Internal View – Board 2

(Top)

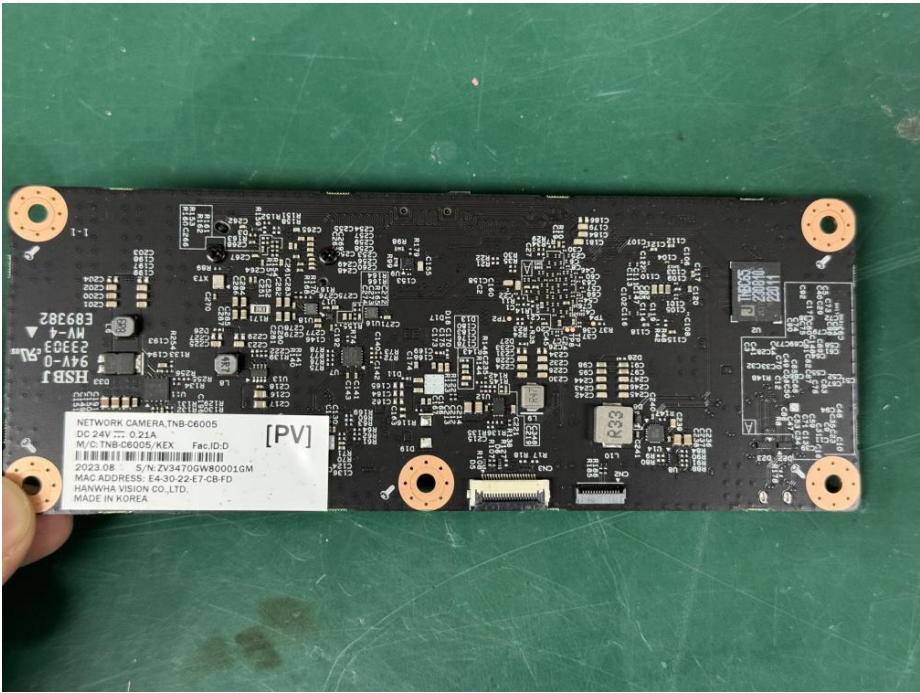


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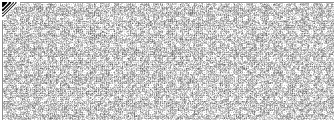
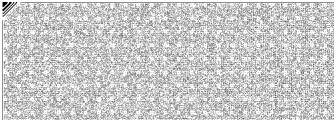
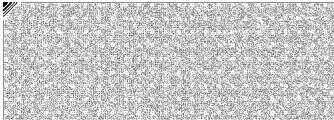
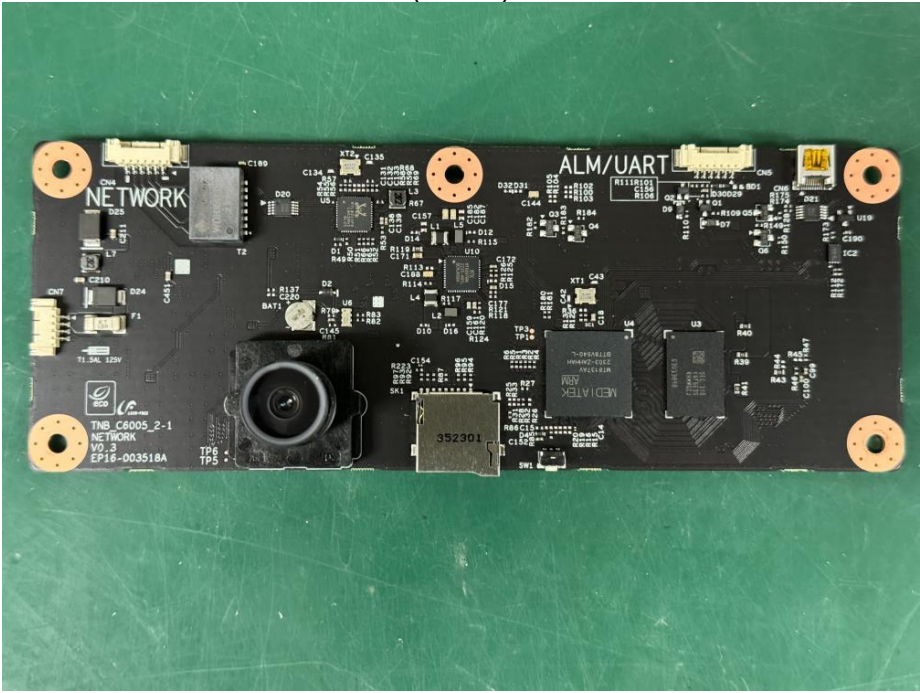


EUT Internal View – Board 3

(Top)

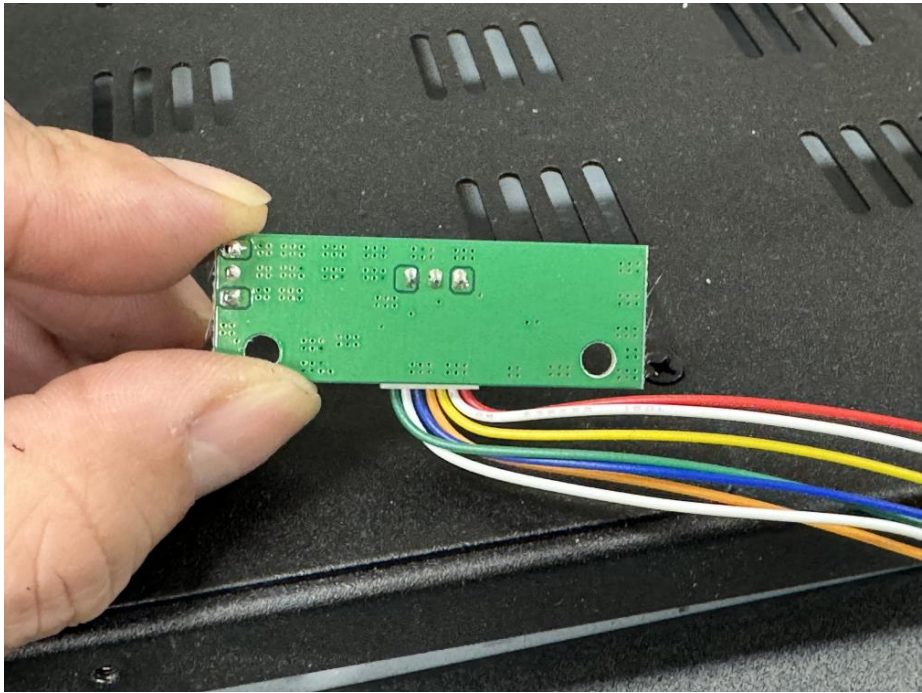


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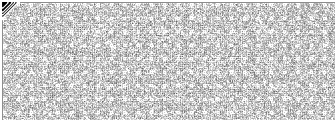
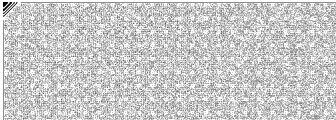
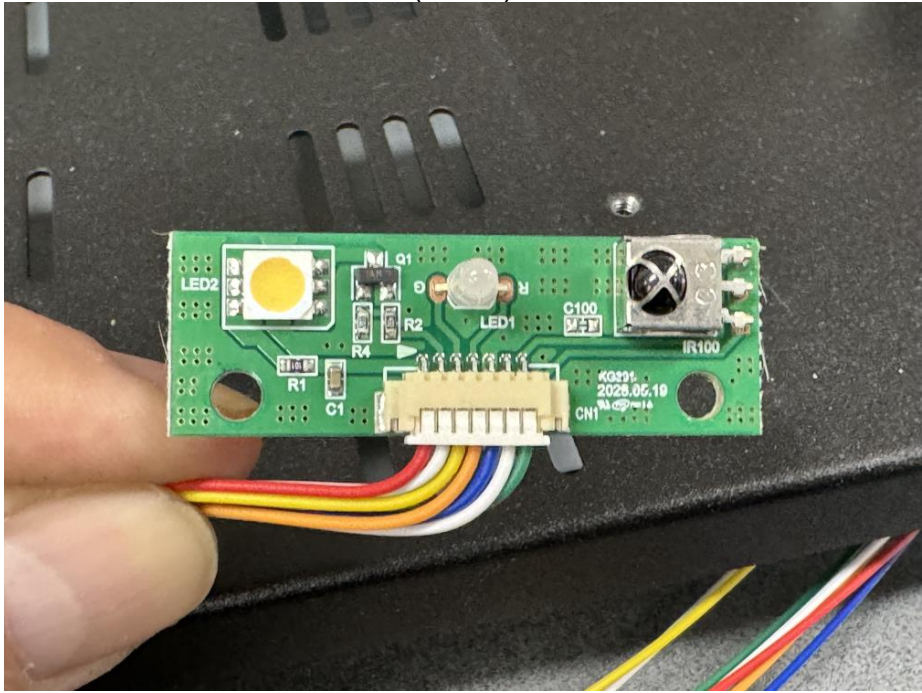


EUT Internal View – Board 4

(Top)

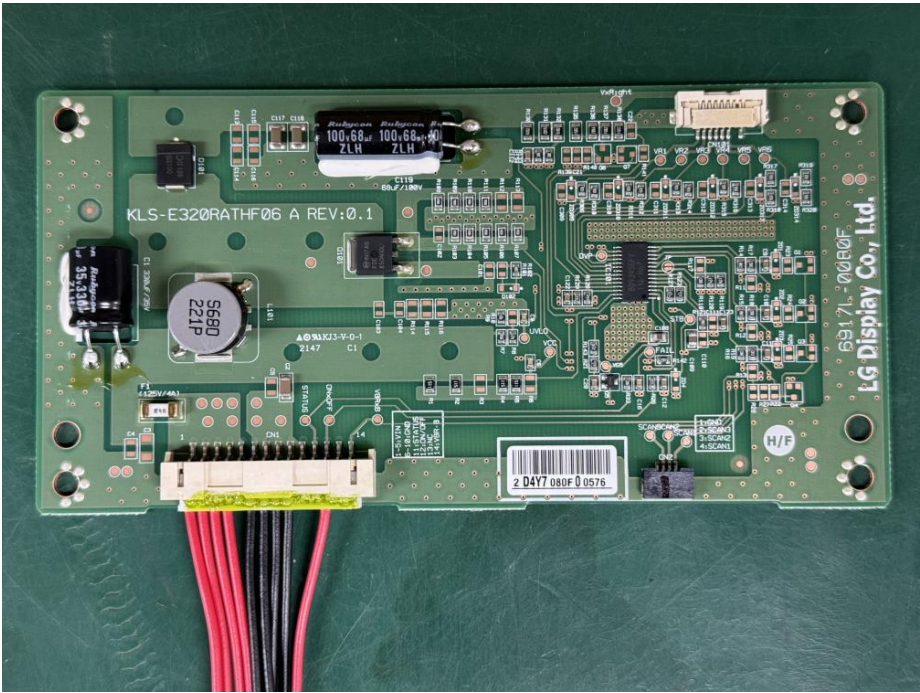


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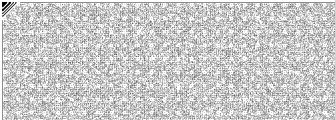
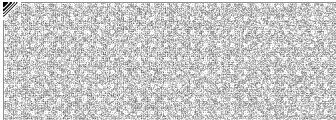
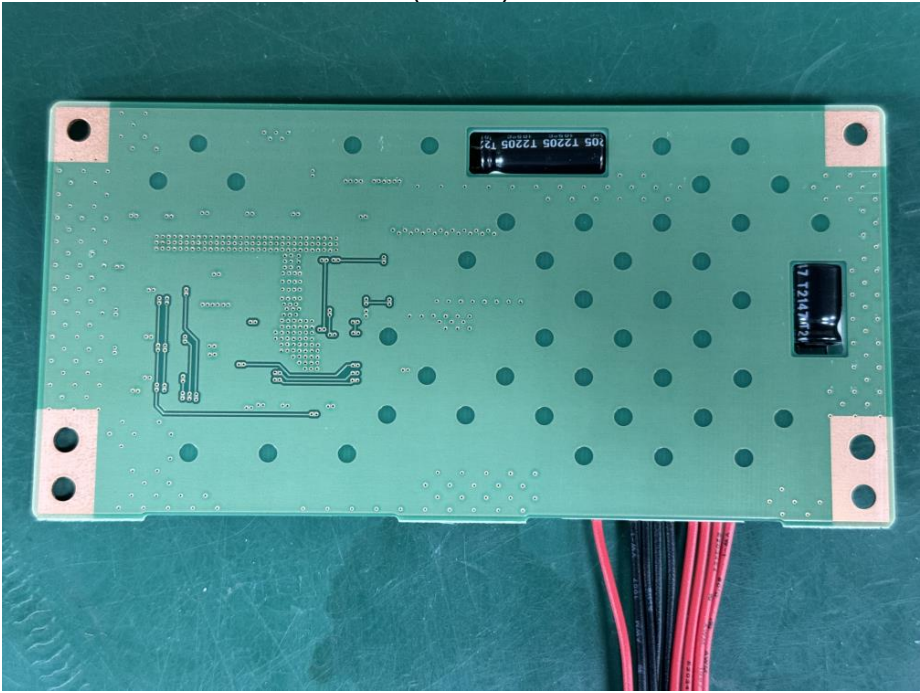


EUT Internal View – Board 5

(Top)

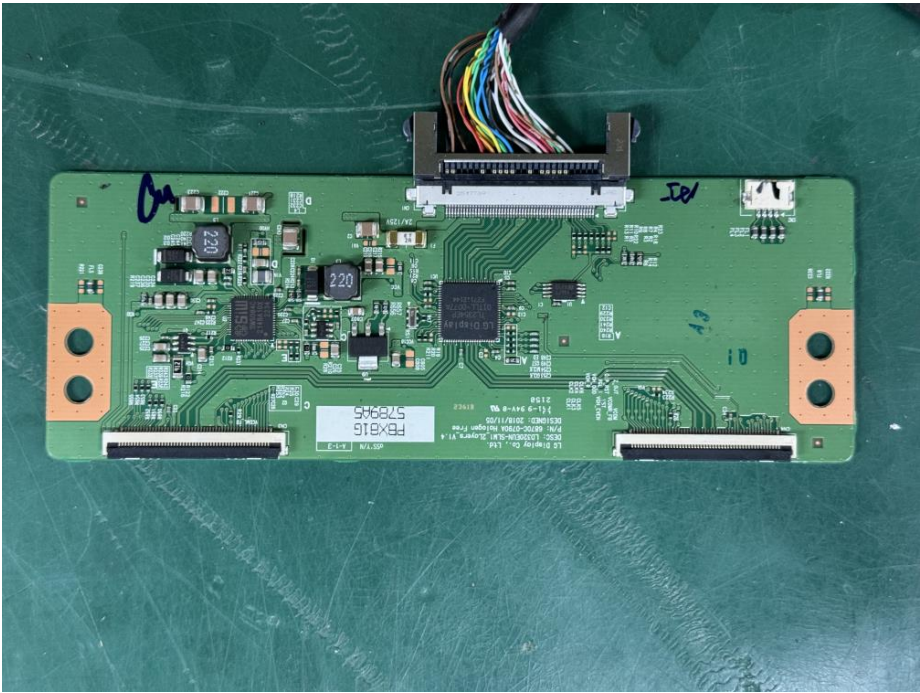


(Bottom)

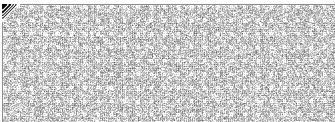
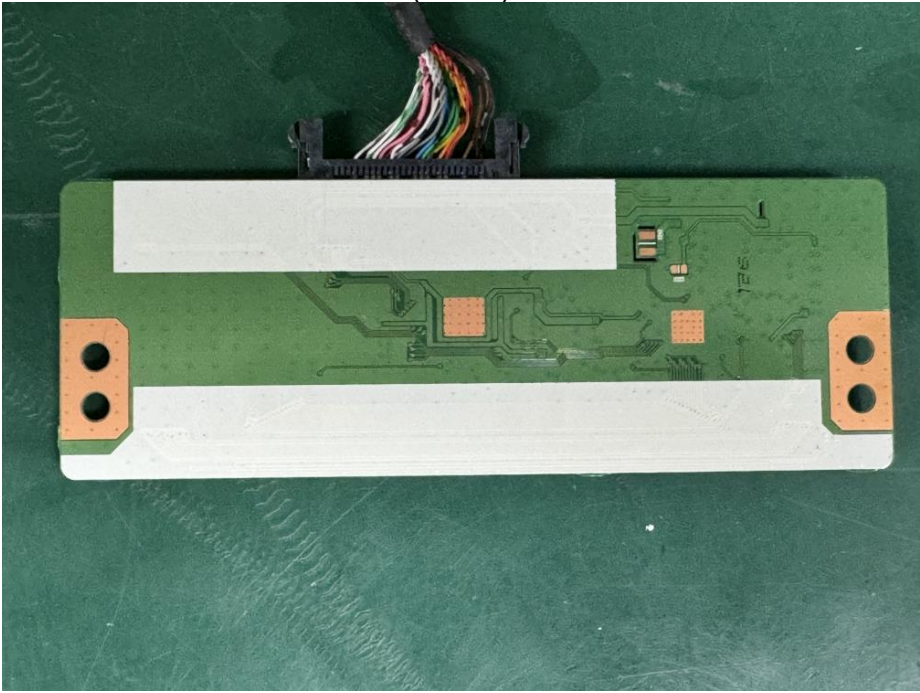


EUT Internal View – Board 6

(Top)



(Bottom)

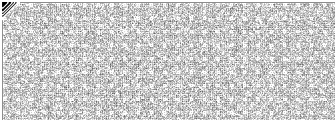
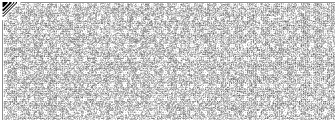
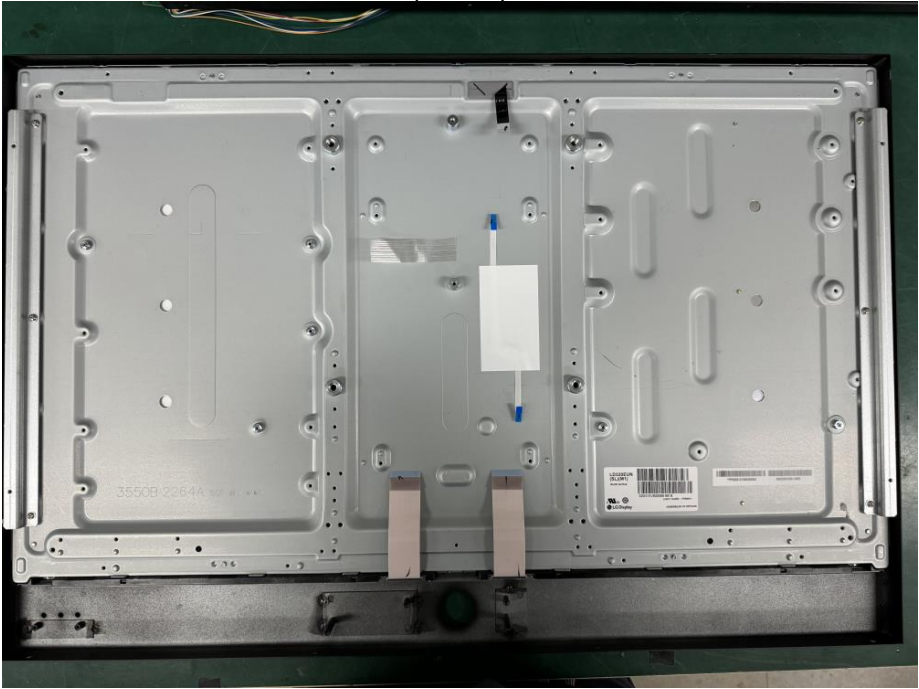


EUT Internal View – Panel

(Top)



(Bottom)



Label Photographs**FCC Label**

Public view monitor

SMT-3231PV

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.

