



TEST REPORT



Report No. : KES-EM243326

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KES Co., Ltd.

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Anyang-si, Gyeonggi-do, 14057, Republic of Korea
Tel : +82-31-425-6200, Fax : +82-31-341-3838

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 : SOUND DETECTOR

Model/Type No. : SPS-A100M

Variant Model : -

Manufacturer : 1. HANWHA VISION VIETNAM COMPANY LIMITED
2. D-TECH CO.,LTD.

Manufacturer Address : 1. Lot O-2, Que Vo Industrial Zone extended Area, Nam Son Ward,
Bac Ninh City, Bac Ninh Province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do, Korea
(Suwon Industrial Complex)

3. Date of Receipt : Sep. 25, 2024

4. Test date : Nov. 02, 2024 ~ Nov. 07, 2024

5. Date of Issue : Nov. 15, 2024

6. Test Results : In Compliance

Tested by

Reviewed by

Eun Gu, Jeon
EMC Test Engineer

Dong Hun, Jang
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 this test report can be found on the verification page of our website (www.kes.co.kr)



REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Nov. 15, 2024	KES-EM243326	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Highest Maximum Frequency	1.56 GHz
Video	
Imaging Device	None
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	Fake video for easy registration. H.265/H.264: Max. 10fps MJPEG: Max. 5fps
Video Out	USB: Micro USB Type C, 1280x720 for installation
Operational	
Analytics	Sound classification - Classified sound type: GunShot, Crashing glass, Screaming, Vehicle horn, Tire screech - Event metadata: sound type, sound direction, confidence, timestamp, audio clip, dB (Max:130dB , ±5dB 오차) Sound direction - Ceiling: ±15 degree , Wall: ±30 degree (No Noise / No Echo / No Obstacles condition)
Business Intelligence	None
Serial Interface	None
Alarm I/O	2 configurable I/O ports
Alarm Triggers	Analytics, Network disconnect, Alarm input, App event(Sound classification), Time schedule, MQTT subscription, Case open
Alarm Events	When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback(6MB, WAV/WAV in mono/stereo from 64 kbps to 320 kbps. Sampling rate from 16 kHz up to 48 kHz) - MQTT: publication - LED - Speaker
Audio Streaming	Two-way/one-way selectable, Full duplex, Echo cancellation and noise reduction
Audio In	Five built-in digital MICs
Audio Out	Max. Sound Pressure Level (PoE+) 90dB Frequency Range: 144Hz~20kHz
Light Type	LED
Network	
Ethernet	RJ-45(10/100 BASE-T)
Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz
Streaming	Unicast(6 users) / Multicast Multiple streaming(Up to 6 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast), MQTT
Application Programming Interface	ONVIF Profile S SUNAPI(HTTP API) Wisenet open platform - Sound classification AI pack included



Security	
OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authentication, Prevent brute-force attack
Network authentication	IEEE 802.1X (EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS (WebSocket Secure)
Access Control	IP-based access control
Data Protect	Encryption Credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
Device ID	Device certificate (Hanwha Techwin Root CA)
Secure Storage	TPM, 64-bit partition encrypt
Security Certificate	TPM with FIPS 140-3 level 3
General	
Webpage Language	English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek.
Web Viewer	None
Edge Storage	None
Memory	4096MB RAM, 512MB Flash
Environmental & Electrical	
Operating Temperature / Humidity	-20°C ~ +55°C (-4°F ~ +122°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Certification	None
Input Voltage	PoE+(IEEE802.3at, Class4)
Power Consumption	PoE+: Max 18.5W, typical 8.2W
Mechanical	
Color / Material	White / Plastic, Aluminum
RAL Code	RAL9003
Product Dimensions / Weight	215.1(W)x135.1(D)x52.8(H)mm(8.47"x5.32"x2.08") / 973g
Compatible Conduit hole / Gang	None / single, double, 4" octagon, 4" square Sold separately conduit hole accessory: SBP-060BA
Hanging Mount (Dome)	SBP-215HMB
Conduit Adaptor	SBP-060BA



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 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
SOUND DETECTOR	SPS-A100M	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Injector	-	-	PROCET	-
Laptop	15U590	-	LG Electronics Co., Ltd.	-
Laptop Adapter	A13-040N3A	-	CHICONY POWER TECHNOLOGY (SUZHOU) CO., LTD	-
Smartphone	SHV-E330S	-	Samsung Electronics Co., Ltd.	-
Alarm	-	-	-	-
Button Alarm	-	-	-	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
SOUND DETECTOR (EUT)	RJ-45	PoE Injector	RJ-45	3.5	U
	ALARM (3 Pin)	Alarm	Line	3.1	U
		Button Alarm	Line	3.1	U
Laptop	DC Jack	Laptop Adapter	Line	1.4	U
	3.5 mm	Smartphone	3.5 mm	0.8	U
	RJ-45	PoE Injector	RJ-45	1.0	U

* Unshielded=U, Shielded=S

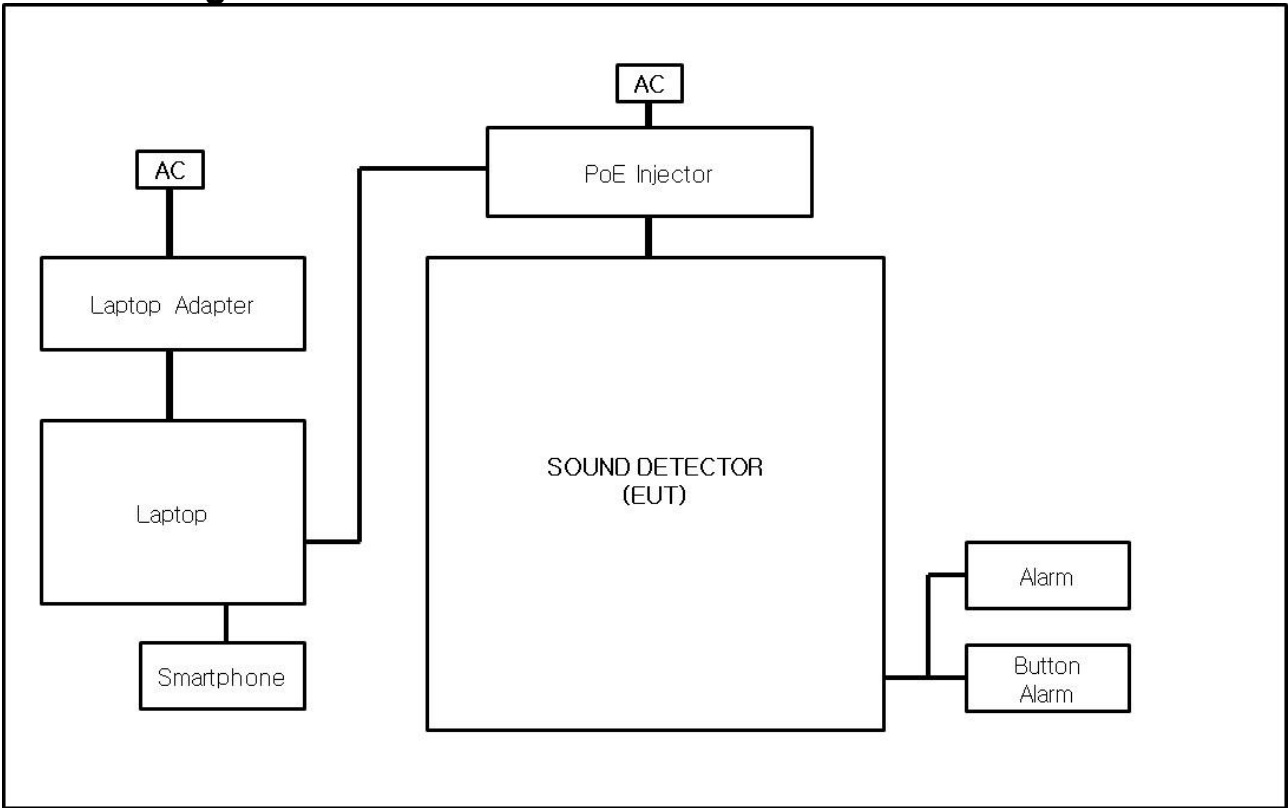


1.7 EUT Operating Mode(s)

- Web Viewer, use ping test to check EUT's behavior
- Play the 1 kHz tone of the smartphone and check the output through the EUT
- When the Button Alarm is pressed, make sure the Alarm is working

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

1.8 Configuration





1.9 Remarks when standards applied

- The USB C Type port was excluded from the test as a port for administrators.
- It receives PoE power, and the PoE port is considered a wired network port.
- 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 0008



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

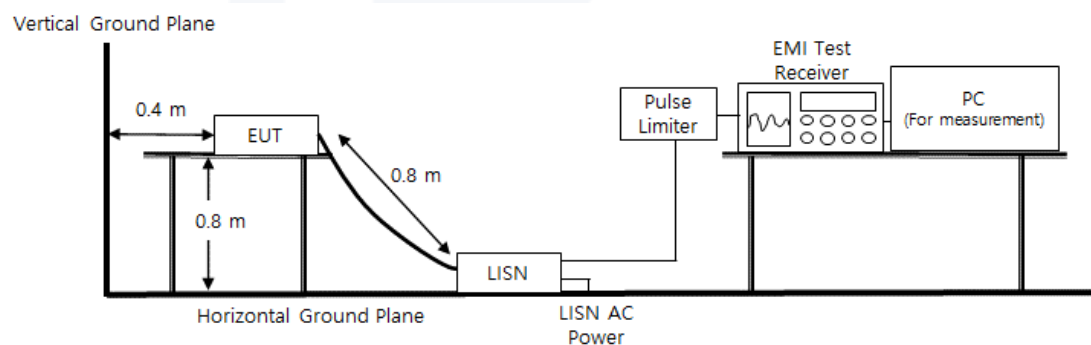
Nov. 06, 2024

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	11, 08, 2024
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101786	11, 10, 2025
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	11, 08, 2024
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 08, 2024

Diagram of test setup



Test Conditions

Temperature: (22,9 ± 0,1) °C
Relative Humidity: (46,2 ± 0,1) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

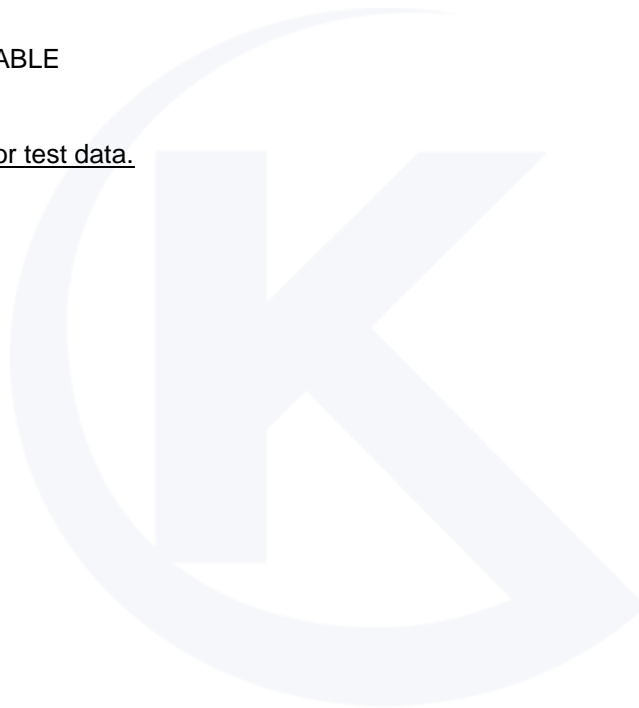
Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.





2.2 Radiated Electric Field Emissions(Below 1 GHz)

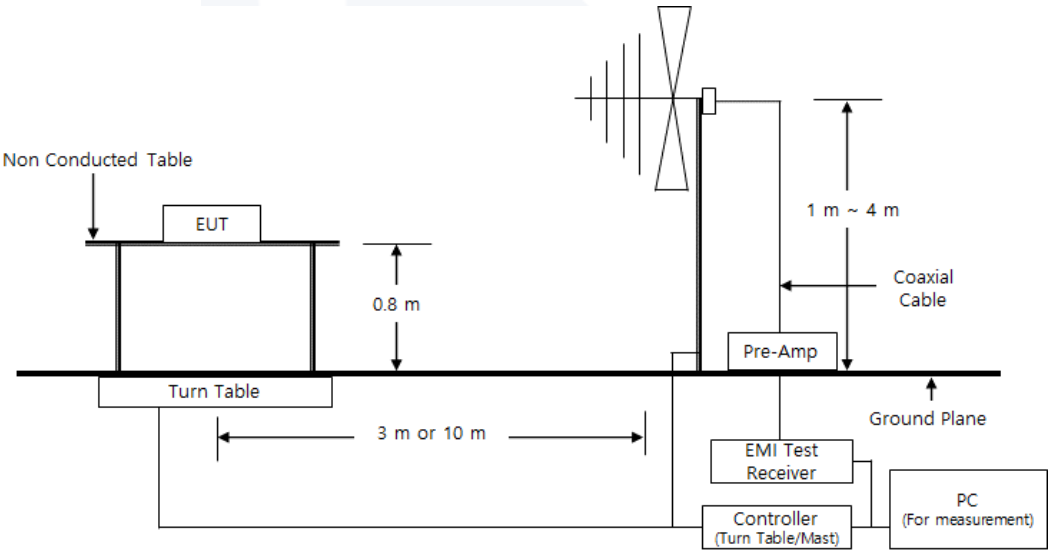
Test Date
Nov. 02, 2024

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	02, 13, 2025
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 06, 2025
<input checked="" type="checkbox"/>	BILOG ANTENNA	VULB 9168	SCHWARZBECK	9168-461	05, 09, 2026
<input checked="" type="checkbox"/>	ATTENUATOR	6806.17.A	HUBER+SUHNER	-	02, 13, 2025

Diagram of test setup





Test Conditions

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

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

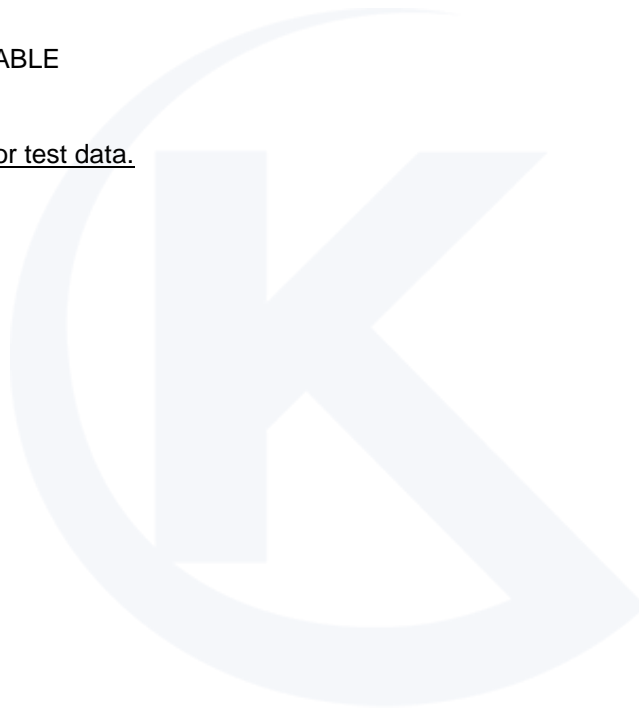
Test Results

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

Nov. 07, 2024

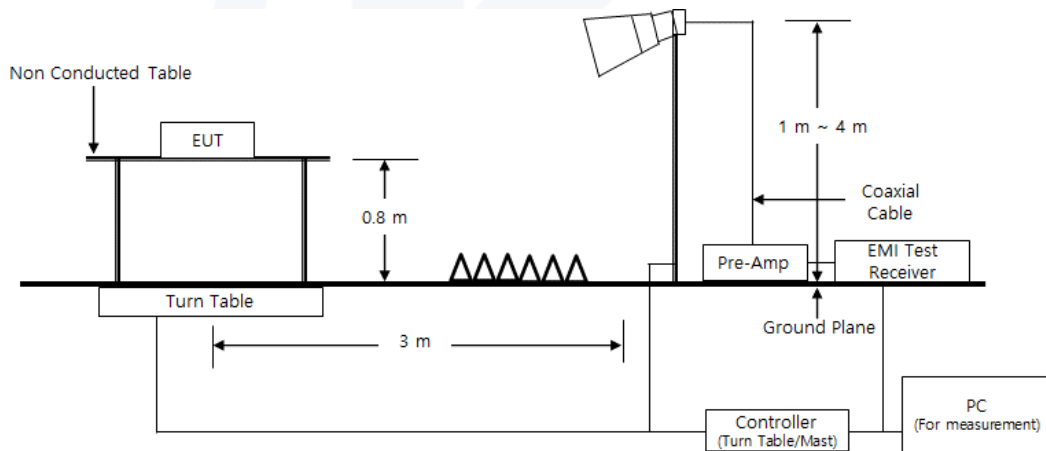
Test Location

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	02, 13, 2025
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01742	10, 23, 2025
<input checked="" type="checkbox"/>	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	02, 13, 2025

Diagram of test setup





Test Conditions

Temperature: (23,3 ± 0,1)°C
Relative Humidity: (46,7 ± 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 8 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.





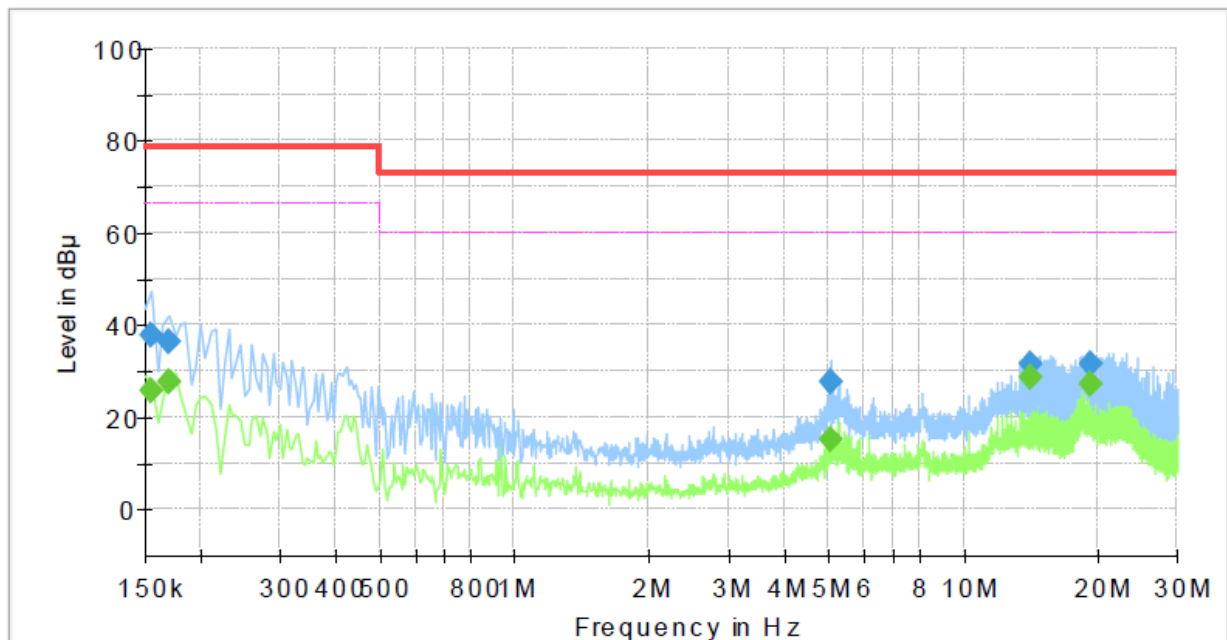
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description: Conducted Emission
Job No.: KES-EM243326
Phase: L
Mode:
Operator Name: KES



Final Result

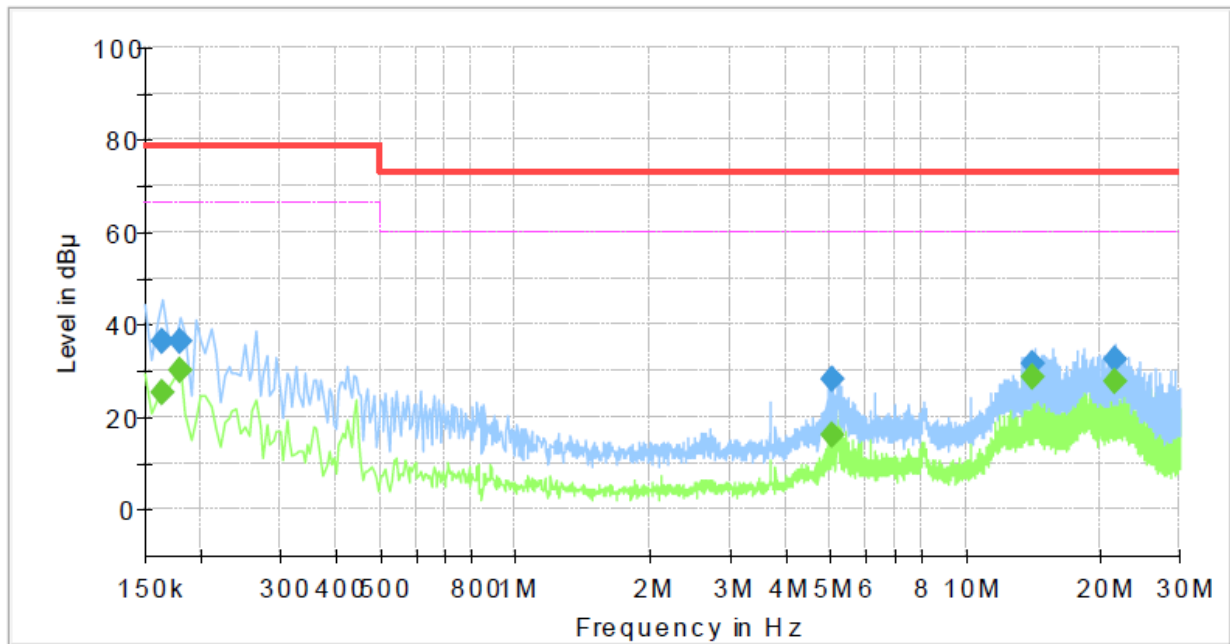
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	---	25.77	66.00	40.23	1000.0	9.000	L1	19.6
0.155000	37.74	---	79.00	41.26	1000.0	9.000	L1	19.6
0.170000	---	27.52	66.00	38.48	1000.0	9.000	L1	19.6
0.170000	36.51	---	79.00	42.49	1000.0	9.000	L1	19.6
5.045000	---	15.13	60.00	44.87	1000.0	9.000	L1	19.9
5.045000	27.64	---	73.00	45.36	1000.0	9.000	L1	19.9
14.215000	---	28.66	60.00	31.34	1000.0	9.000	L1	20.3
14.215000	31.68	---	73.00	41.32	1000.0	9.000	L1	20.3
19.160000	---	27.26	60.00	32.74	1000.0	9.000	L1	20.3
19.160000	31.70	---	73.00	41.30	1000.0	9.000	L1	20.3



NEUTRAL LINE

Common Information

Test Description: Conducted Emission
Job No.: KES-EM243326
Phase: N
Mode:
Operator Name: KES

**Final Result**

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165000	---	25.03	66.00	40.97	1000.0	9.000	N	19.5
0.165000	36.53	---	79.00	42.47	1000.0	9.000	N	19.5
0.180000	---	30.10	66.00	35.90	1000.0	9.000	N	19.5
0.180000	36.22	---	79.00	42.78	1000.0	9.000	N	19.5
5.045000	---	15.92	60.00	44.08	1000.0	9.000	N	19.9
5.045000	28.06	---	73.00	44.94	1000.0	9.000	N	19.9
14.215000	---	28.40	60.00	31.60	1000.0	9.000	N	20.3
14.215000	31.58	---	73.00	41.42	1000.0	9.000	N	20.3
21.660000	---	27.61	60.00	32.39	1000.0	9.000	N	20.4
21.660000	32.28	---	73.00	40.72	1000.0	9.000	N	20.4

◆ Calculation

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

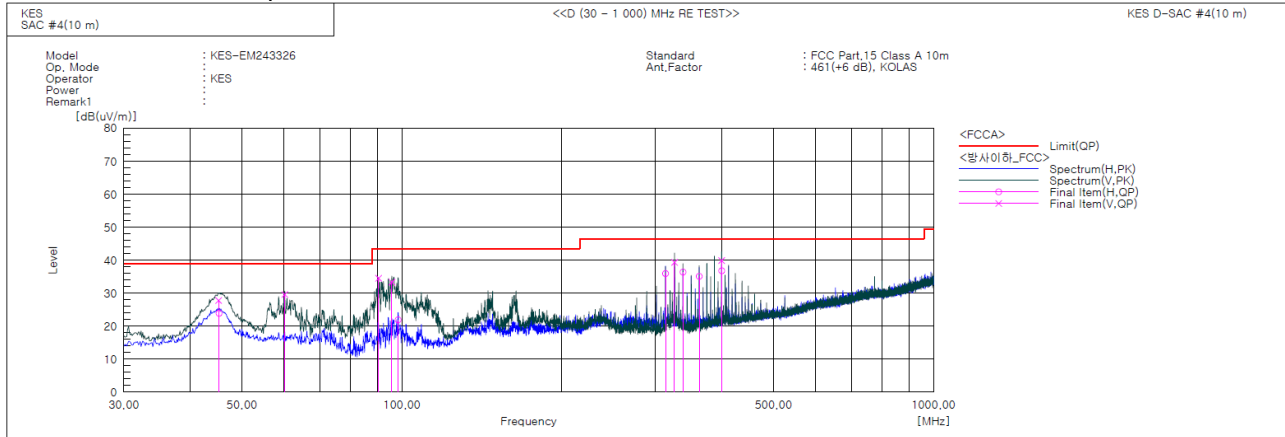
QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

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



Report No. : KES-EM243326

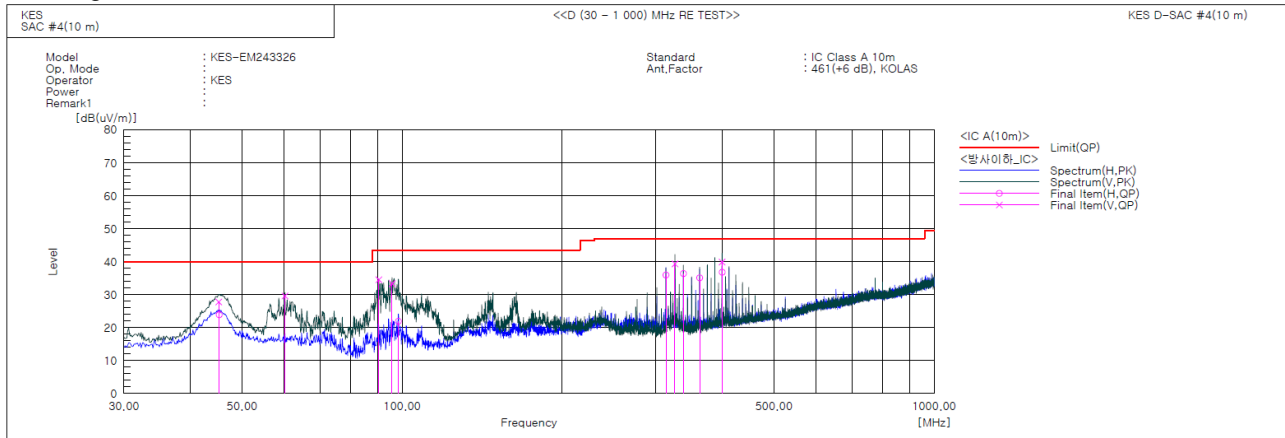
Radiated Electric Field Emissions(Below 1 GHz)**- 47 CFR Part 15, Subpart B****Final Result**

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	45.194	V	49.2	-21.4	27.8	39.0	11.2	133.0	101.0	
2	45.278	H	45.3	-21.4	23.9	39.0	15.1	314.0	13.0	
3	60.191	V	51.1	-21.5	29.6	39.0	9.4	121.0	71.0	
4	90.383	V	60.8	-26.3	34.5	43.5	9.0	155.0	112.0	
5	95.718	V	59.0	-25.7	33.3	43.5	10.2	114.0	142.0	
6	98.385	H	47.2	-25.3	21.9	43.5	21.6	379.0	181.0	
7	313.361	H	52.6	-16.7	35.9	46.5	10.6	386.0	121.0	
8	325.608	V	55.6	-16.3	39.3	46.5	7.2	133.0	338.0	
9	337.975	H	52.4	-16.0	36.4	46.5	10.1	348.0	128.0	
10	362.468	H	50.3	-15.2	35.1	46.5	11.4	371.0	117.0	
11	399.328	V	53.7	-13.8	39.9	46.5	6.6	107.0	138.0	
12	399.491	H	50.6	-13.8	36.8	46.5	9.7	339.0	279.0	



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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	45.194	V	49.2	-21.4	27.8	40.0	12.2	133.0	101.0	
2	45.278	H	45.3	-21.4	23.9	40.0	16.1	314.0	13.0	
3	60.191	V	51.1	-21.5	29.6	40.0	10.4	121.0	71.0	
4	90.383	V	60.8	-26.3	34.5	43.5	9.0	155.0	112.0	
5	95.718	V	59.0	-25.7	33.3	43.5	10.2	114.0	142.0	
6	98.385	H	47.2	-25.3	21.9	43.5	21.6	379.0	181.0	
7	313.361	H	52.6	-16.7	35.9	47.0	11.1	386.0	121.0	
8	325.608	V	55.6	-16.3	39.3	47.0	7.7	133.0	338.0	
9	337.975	H	52.4	-16.0	36.4	47.0	10.6	348.0	128.0	
10	362.468	H	50.3	-15.2	35.1	47.0	11.9	371.0	117.0	
11	399.328	V	53.7	-13.8	39.9	47.0	7.1	107.0	138.0	
12	399.491	H	50.6	-13.8	36.8	47.0	10.2	339.0	279.0	

◆ Calculation

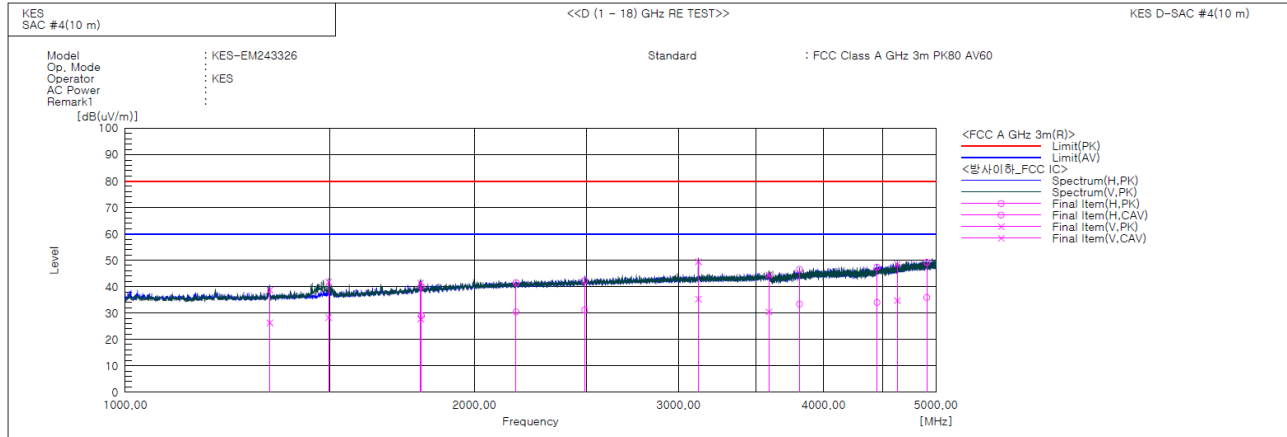
$$\text{Result(QP)} [\text{dB}(\mu\text{V/m})] = (\text{Reading(QP)} [\text{dB}(\mu\text{V})] + \text{c.f} [\text{dB}(1/\text{m})])$$
$$\text{Margin(QP)} [\text{dB}] = \text{Limit} [\text{dB}(\mu\text{V/m})] - \text{Result(QP)} [\text{dB}(\mu\text{V/m})]$$

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

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

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

(1 ~ 5) GHz



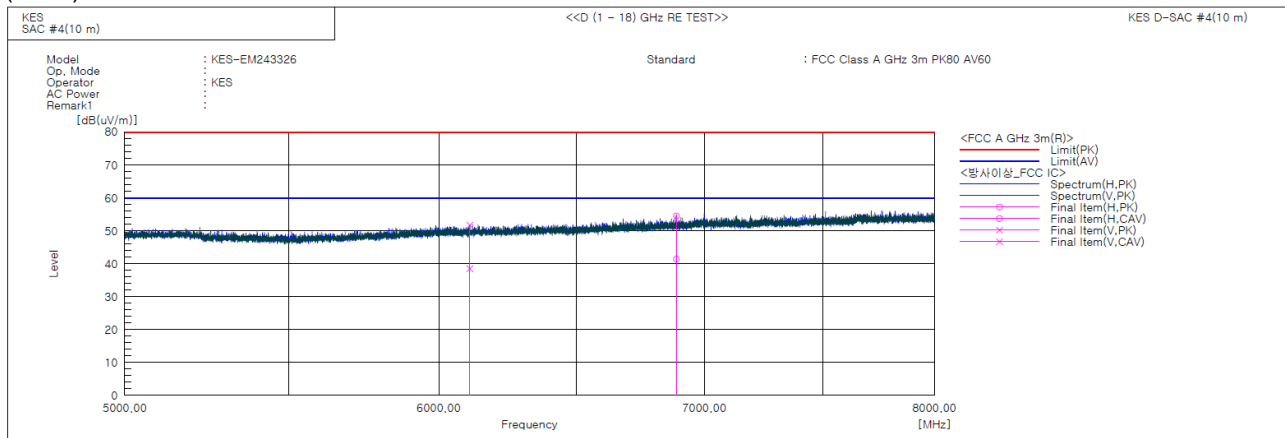
Final Result

No.	Frequency [MHz]	(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	1332.551	V	43.4	31.0	-4.7	38.7	26.3	80.0	60.0	41.3	33.7	113.0	146.0	
2	1497.521	V	45.1	31.7	-3.4	41.7	28.3	80.0	60.0	38.3	31.7	145.0	150.0	
3	1797.458	V	41.9	28.3	-0.5	41.4	27.8	80.0	60.0	38.6	32.2	107.0	71.0	
4	1800.039	H	40.6	29.4	-0.5	40.1	28.9	80.0	60.0	39.9	31.1	211.0	338.0	
5	2172.724	H	39.2	28.1	2.3	41.5	30.4	80.0	60.0	38.5	29.6	192.0	234.0	
6	2489.288	H	38.8	27.7	3.5	42.3	31.2	80.0	60.0	37.7	28.8	231.0	234.0	
7	3120.117	V	43.7	29.6	5.7	49.4	35.3	80.0	60.0	30.6	24.7	131.0	358.0	
8	3589.834	V	37.2	23.1	7.3	44.5	30.4	80.0	60.0	35.5	29.6	121.0	314.0	
9	3814.412	H	37.7	24.6	8.8	46.5	33.4	80.0	60.0	33.5	26.6	207.0	253.0	
10	4448.591	H	36.4	23.0	11.0	47.4	34.0	80.0	60.0	32.6	26.0	174.0	290.0	
11	4631.305	V	36.2	22.4	12.3	48.5	34.7	80.0	60.0	31.5	25.3	162.0	71.0	
12	4910.346	H	35.0	21.7	14.2	49.2	35.9	80.0	60.0	30.8	24.1	103.0	104.0	



Report No. : KES-EM243326

(5 ~ 8) GHz



- PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 109.248	35.100	V	1.000	34.910	17.460	35.010	52.460	74.000	21.540
6 887.031	35.500	H	1.000	35.870	18.730	35.360	54.740	74.000	19.260

- CISPR AV

Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 109.248	21.900	V	1.000	34.910	17.460	35.010	39.260	54.000	14.740
6 887.031	22.400	H	1.000	35.870	18.730	35.360	41.640	54.000	12.360

◆ Calculation

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

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

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



Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



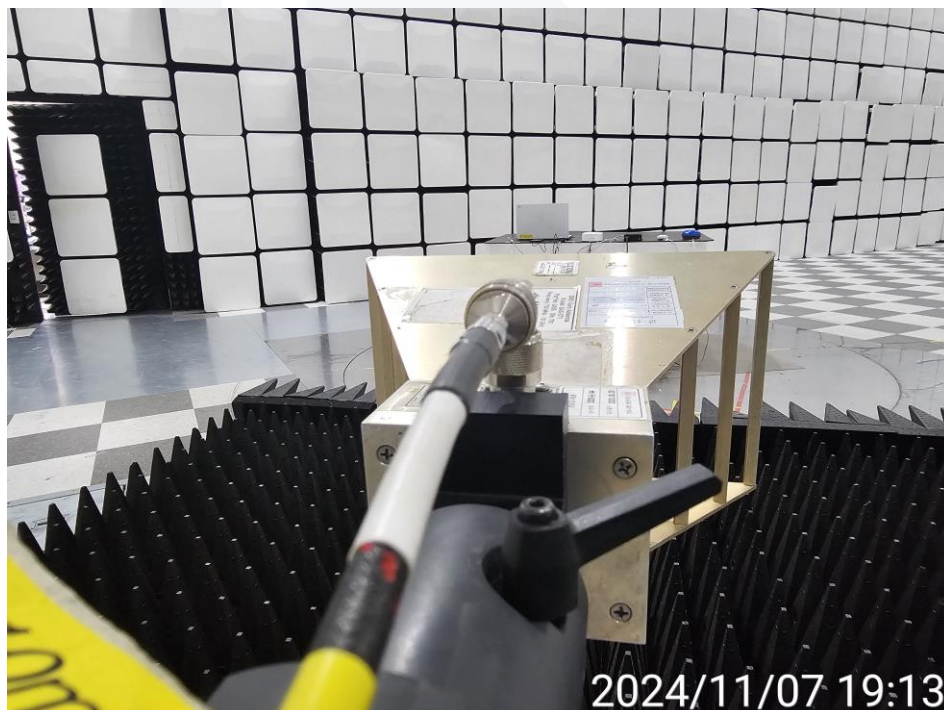


Radiated Electric Field Emissions(Below 1 GHz)





Radiated Electric Field Emissions(Above 1 GHz)





EUT External Photographs

(Top)



(Bottom)





EUT Internal Photographs

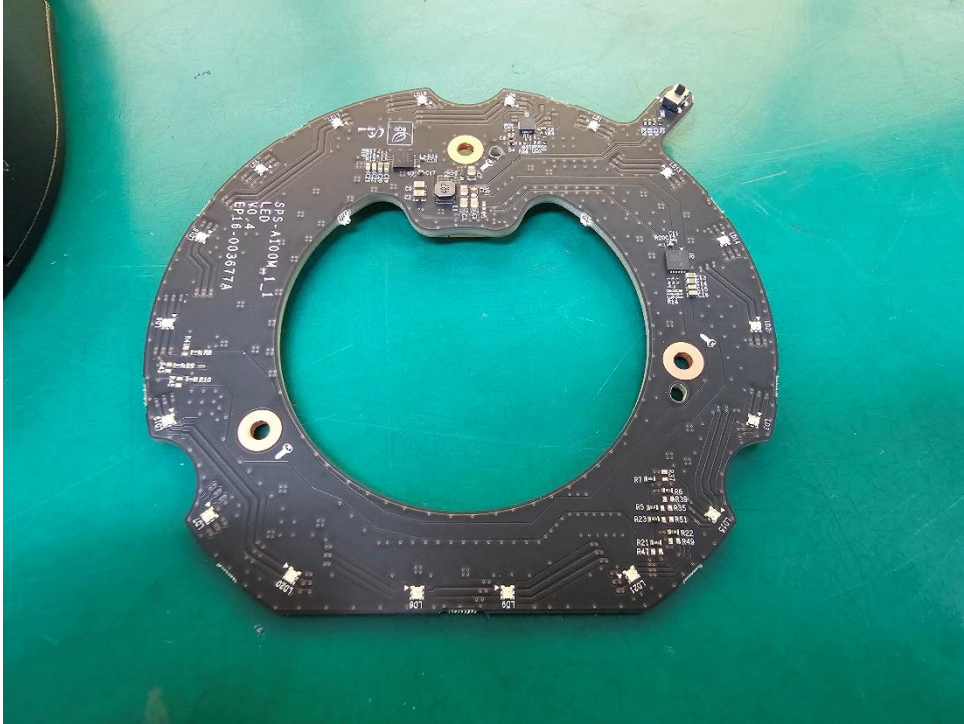
(Internal View)





EUT Internal View – Board 1

(Top)



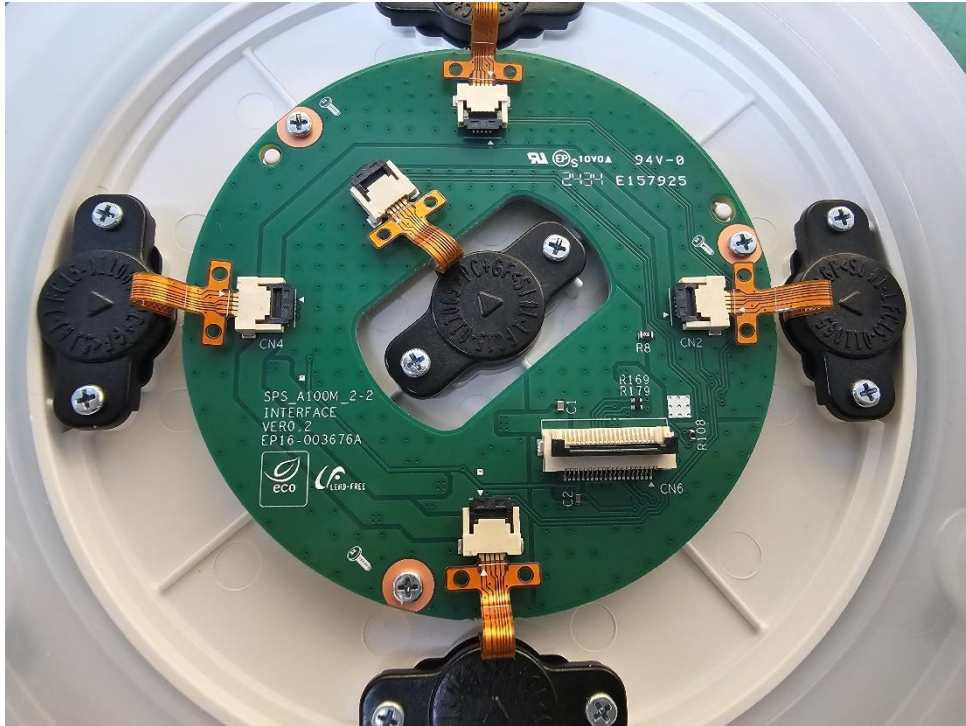
(Bottom)



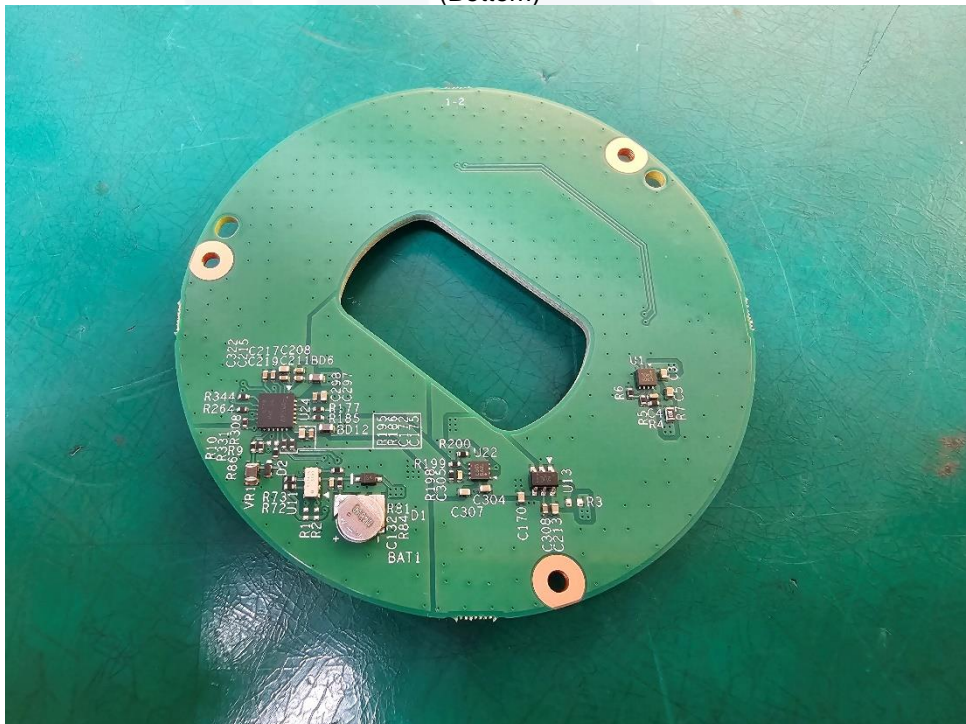


EUT Internal View – Board 2

(Top)



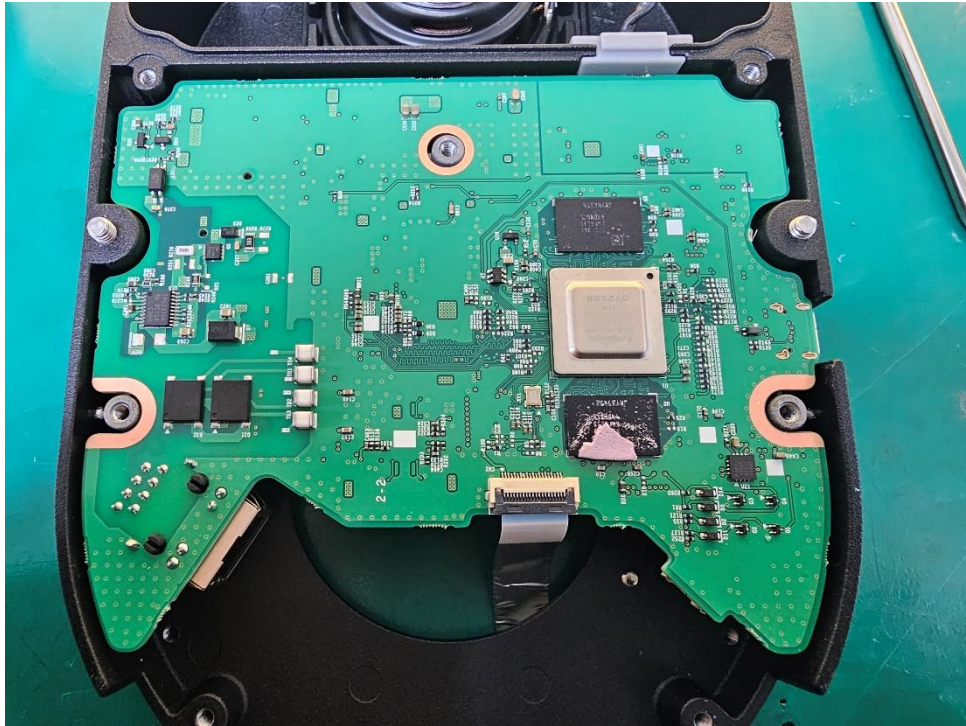
(Bottom)



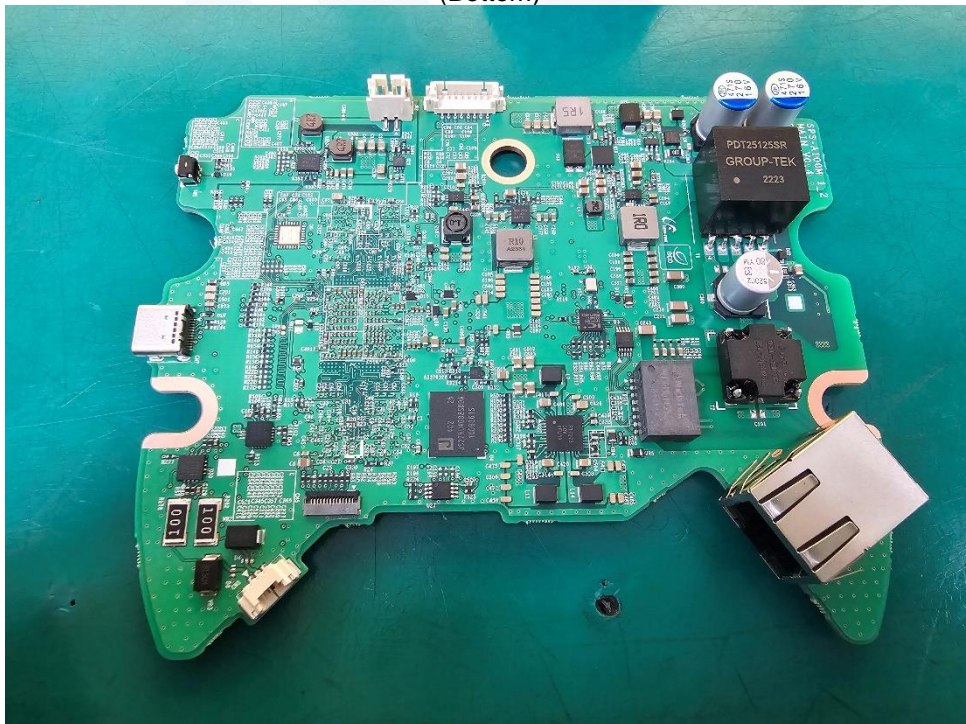


EUT Internal View – Board 3

(Top)



(Bottom)





EUT Internal View – Speaker

(Top)



(Bottom)





Label Photographs

FCC Label



SOUND DETECTOR

SPS-A100M

IC Label

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

This device complies with ICES-003 Canada Rules 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.

The End.