

**KES Co., Ltd.**

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
www.kes.co.kr

Report No.:

KES-EM-20T0743-R2

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EMC TEST REPORT

Test Report No. : KES-EM-20T0743-R2

Date of Issue : Feb. 24, 2023

Product name : LENS MODULE

Model/Type No. : SLA-T2480VA

Variant Mode : -

Applicant : Hanwha Vision Co., Ltd

Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea

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

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

Equipment authorization : **Supplier's Declaration of Conformity**

Date of Receipt : Oct. 06, 2020

Test date : Oct. 12, 2020

Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Dae Jung, Choi
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
Oct. 28, 2020	KES-EM-20T0743	Issued
Nov. 02, 2021	KES-EM-20T0743-R1	IC Regulation ICES-003 Issue 7 Update ANSI C63.4-2014 amended as per ANSI C63.4a-2017
Feb. 24, 2023	KES-EM-20T0743-R2	Change the Applicant and manufacturer at the request of the customer

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1.0 General Product Description

Main Specifications of EUT are:

Video	
Imaging Device	1/2.8" 2M CMOS
Total Pixels	1945(H) x 1109(V) 2.16M
Effective Pixels	1945(H) x 1097(V) 2.13M
Scanning System	Progressive Scan
Min. Illumination	Color : 0.45lux(F2.0, 1/30sec)
S / N Ratio	50dB
Wide Dynamic Range	120dB
Day & Night	Electrical
Lens	
Focal Length (Zoom Ratio)	2.4mm
Max. Aperture Ratio	F2.0
Angular Field of View	H: 138°, V: 73°, D: 165°
Min. Object Distance	0.3m(0.98ft)
Focus Control	-
Lens Type	Fixed focal
Mount Type	RJ12 connected with main unit
Environmental	
Operating Temperature / Humidity	-10°C ~ +55°C (-14°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Ingress Protection	-
Vandal Resistance	-
Mechanical	
Color / Material	Lens : Black / Plastic, Metal Cable : Black
Dimension (WxHxD)	Lens : W30 x H27.9 x D45 Cable : 8m
Weight	328g



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.

Voltage ☐ 230 Vac ☒ 120 Vac ☐ 24 Vac ☐ 12 Vdc ☐ PoE

Frequency ☐ 50 Hz ☒ 60 Hz ☐ Hz

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
LENS MODULE	SLA-T2480VA	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	PNM-9000QB	-	HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.	-
LENS MODULE	SLA-T1080FA	-	HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.	-
LENS MODULE	SLA-T4680A	-	HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.	-
LENS MODULE	SLA-T2480A	-	HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.	-
DC Adaptor	2ACB022F	-	Channel Well Technology (Guangzhou) Co.,Ltd.	-
Monitor	SMT-2232	C95V67VF90002 5B	Weihai Daewoo Electronics Co., Ltd.	-



1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
LENS MODULE (EUT)	6 Pin	NETWORK CAMERA	6 Pin	15.0	S
NETWORK CAMERA	6 Pin	LENS MODULE	6 Pin	15.0	S
	6 Pin	LENS MODULE	6 Pin	15.0	S
	6 Pin	LENS MODULE	6 Pin	15.0	S
	HDMI	Monitor	HDMI	1.5	S

* Unshielded=U, Shielded=S

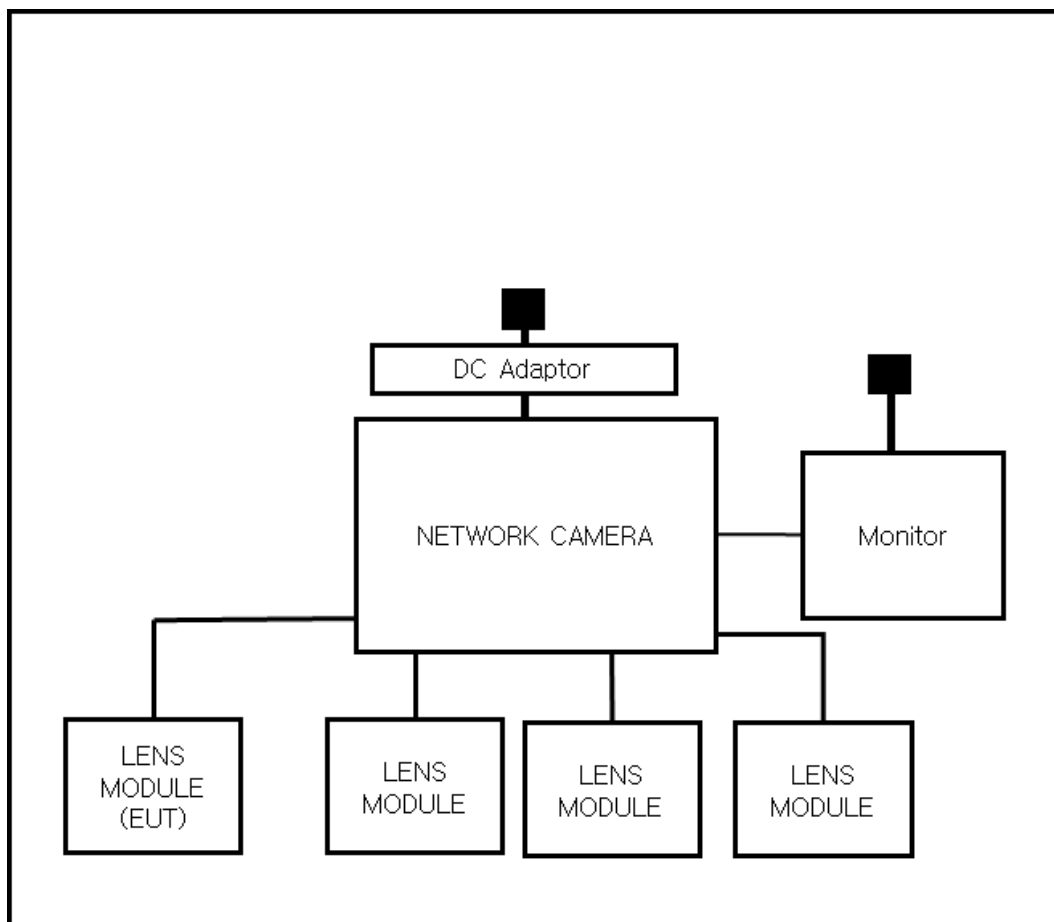
1.7 EUT Operating Mode(s)

Test Mode	operating
Operation mode	Monitoring EUT

EUT Test operating S/W		
Name	Version	Manufacture Company
-	-	-

1.8 Configuration

■ AC Main
 □ DC Main



1.9 Remarks when standards applied

N/A

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. 12, 2020

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	01, 20, 2021
☒	LISN	ENV216	R & S	101787	01, 02, 2021
☒	LISN	ESH2-Z5	R & S	100450	01, 02, 2021
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	01, 02, 2021

Test Conditions

Temperature: 22,3 °C
Relative Humidity: 46,7 % 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.

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2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Oct. 12, 2020

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

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	04, 01, 2021
☒	AMPLIFIER	SCU 01	R & S	100603	11, 25, 2020
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 29, 2020
☒	ATTENUATOR	8491A	HP	32173	03, 10, 2021

Test Conditions

Temperature: 22,7 °C
Relative Humidity: 52,0 % 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

RemarksSee Appendix A for test data.

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Oct. 12, 2020

Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	04, 01, 2021
☒	PREAMPLIFIER	8449B	AGILENT	3008A01742	01, 02, 2021
☐	ATTENUATOR	8491A	HP	35496	03, 10, 2021
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 13, 2020

Test Conditions

Temperature: 22,7 °C
Relative Humidity: 52,0 % 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

RemarksSee Appendix A for test data.

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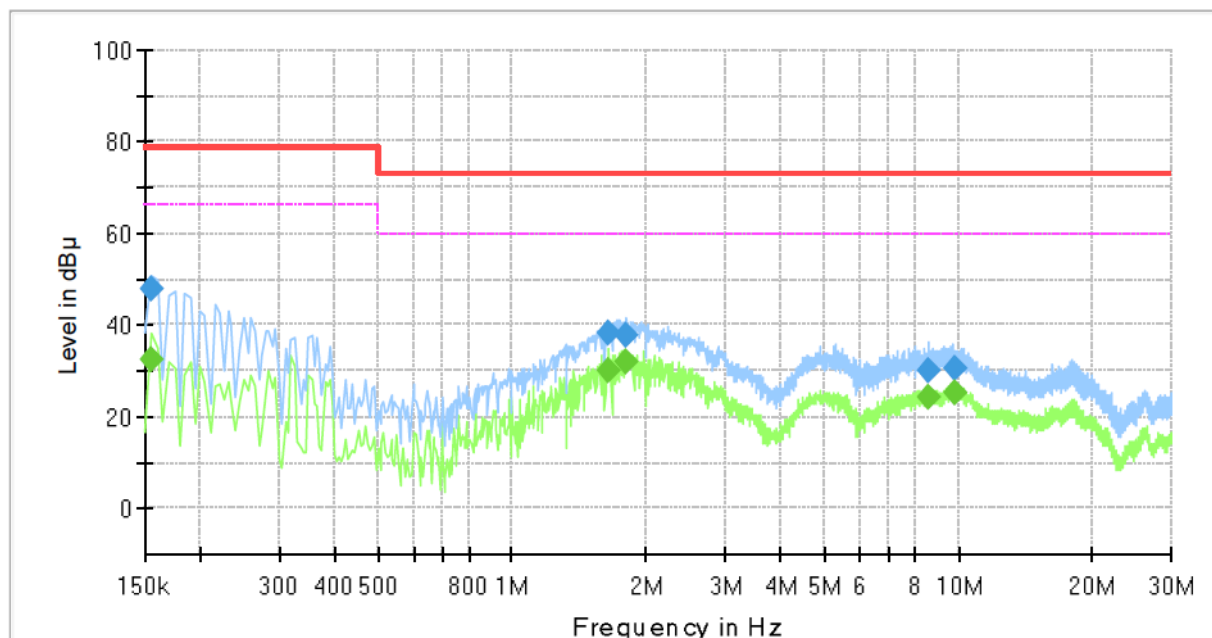
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	SLA-T2480VA
Phase:	L1
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	---	32.62	66.00	33.38	1000.0	9.000	L1	19.5
0.155000	47.71	---	79.00	31.29	1000.0	9.000	L1	19.5
1.645000	---	29.99	60.00	30.01	1000.0	9.000	L1	20.2
1.645000	38.40	---	73.00	34.60	1000.0	9.000	L1	20.2
1.805000	---	32.10	60.00	27.90	1000.0	9.000	L1	20.2
1.805000	37.78	---	73.00	35.22	1000.0	9.000	L1	20.2
8.550000	---	24.42	60.00	35.58	1000.0	9.000	L1	19.8
8.550000	29.88	---	73.00	43.12	1000.0	9.000	L1	19.8
9.845000	---	25.31	60.00	34.69	1000.0	9.000	L1	19.9
9.845000	30.48	---	73.00	42.52	1000.0	9.000	L1	19.9

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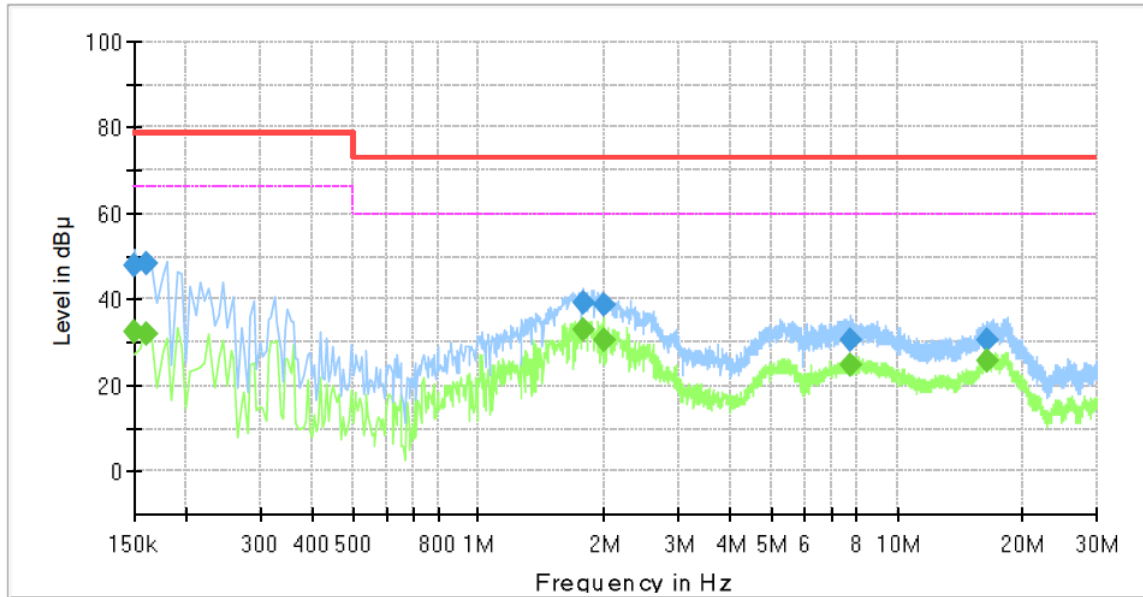
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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	SLA-T2480VA
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)
0.150000	---	32.30	66.00	33.70	1000.0	9.000	N	19.4
0.150000	47.92	---	79.00	31.08	1000.0	9.000	N	19.4
0.160000	---	32.11	66.00	33.89	1000.0	9.000	N	19.4
0.160000	48.56	---	79.00	30.44	1000.0	9.000	N	19.4
1.780000	---	32.92	60.00	27.08	1000.0	9.000	N	20.2
1.780000	39.07	---	73.00	33.93	1000.0	9.000	N	20.2
1.985000	---	30.67	60.00	29.33	1000.0	9.000	N	20.3
1.985000	38.86	---	73.00	34.14	1000.0	9.000	N	20.3
7.700000	---	24.84	60.00	35.16	1000.0	9.000	N	19.6
7.700000	30.41	---	73.00	42.59	1000.0	9.000	N	19.6
16.490000	---	25.55	60.00	34.45	1000.0	9.000	N	20.1
16.490000	30.58	---	73.00	42.42	1000.0	9.000	N	20.1

◆ 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))

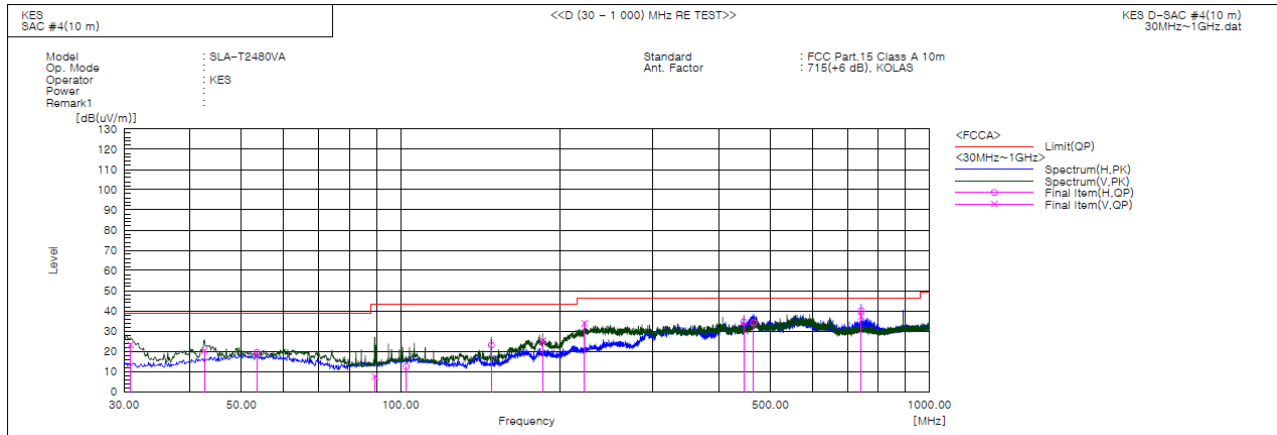
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Radiated Electric Field Emissions(Below 1 GHz)



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	30.849	V	48.3	-25.0	23.3	39.0	15.7	100.0	23.0	
2	42.610	V	42.6	-22.2	20.4	39.0	18.6	400.0	143.0	
3	53.523	H	41.0	-21.6	19.4	39.0	19.6	374.0	11.0	
4	89.413	V	32.6	-25.0	7.6	43.5	35.9	134.0	115.0	
5	102.508	H	34.9	-22.5	12.4	43.5	31.1	162.0	80.0	
6	148.461	H	49.2	-26.1	23.1	43.5	20.4	351.0	354.0	
7	185.564	V	48.6	-23.3	25.3	43.5	18.2	127.0	274.0	
8	222.788	V	54.3	-20.5	33.8	46.5	12.7	194.0	267.0	
9	445.524	H	49.3	-14.7	34.6	46.5	11.9	274.0	260.0	
10	465.045	H	48.2	-14.1	34.1	46.5	12.4	142.0	260.0	
11	742.465	V	44.6	-7.4	37.2	46.5	9.3	100.0	144.0	
12	742.465	H	47.5	-7.4	40.1	46.5	6.4	100.0	329.0	

◆ Calculation – SAC #4(10 m)

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

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

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

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

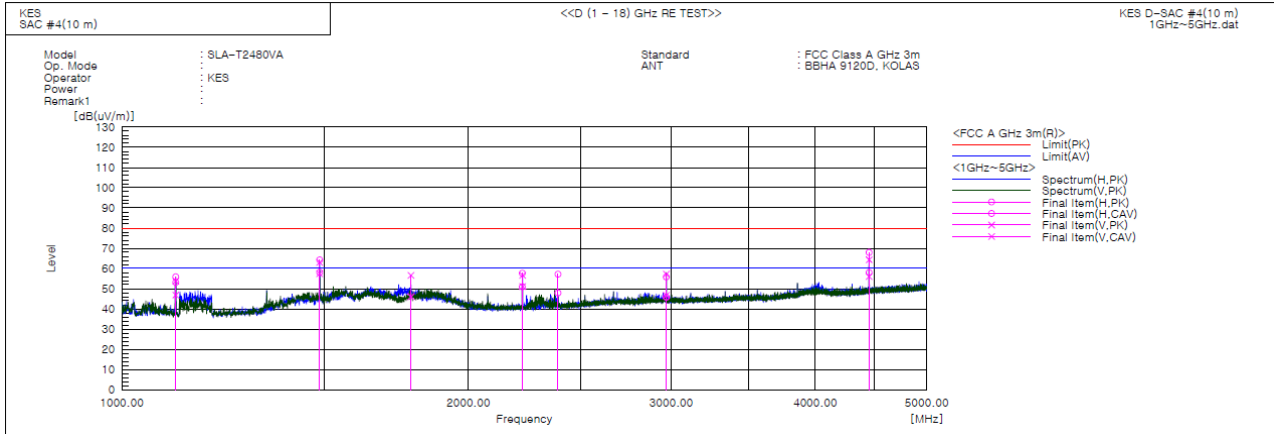
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Radiated Electric Field Emissions(Above 1 GHz)



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	1113.500	V	58.5	51.6	-4.7	53.8	46.9	80.0	60.0	26.2	13.1	152.0	345.0	
2	1113.500	H	60.6	57.8	-4.7	55.9	53.1	80.0	60.0	24.1	6.9	136.0	335.0	
3	1484.500	V	65.8	60.2	-2.7	63.1	57.5	80.0	60.0	16.9	2.5	361.0	32.0	
4	1485.000	H	67.0	60.8	-2.7	64.3	58.1	80.0	60.0	15.7	1.9	332.0	22.0	
5	1782.000	V	57.9	47.4	-1.3	56.6	46.1	80.0	60.0	23.4	13.9	105.0	321.0	
6	2227.000	H	57.0	50.3	0.6	57.6	50.9	80.0	60.0	22.4	9.1	142.0	2.0	
7	2227.500	V	56.0	50.5	0.6	56.6	51.1	80.0	60.0	23.4	8.9	261.0	338.0	
8	2391.500	H	55.7	46.4	1.5	57.2	47.9	80.0	60.0	22.8	12.1	315.0	9.0	
9	2970.000	V	53.0	42.5	4.3	57.3	46.8	80.0	60.0	22.7	13.2	400.0	72.0	
10	2970.000	H	51.5	41.6	4.3	55.8	45.9	80.0	60.0	24.2	14.1	322.0	78.0	
11	4455.500	V	54.2	45.9	10.2	64.4	56.1	80.0	60.0	15.6	3.9	271.0	57.0	
12	4455.500	H	57.7	47.8	10.2	67.9	58.0	80.0	60.0	12.1	2.0	285.0	5.0	

◆ Calculation

Result(PK/CAV) [dB(uV/m)] = (Reading(PK/CAV)[dB(uV)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB(uV/m)] - Result(PK/CAV) [dB(uV/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

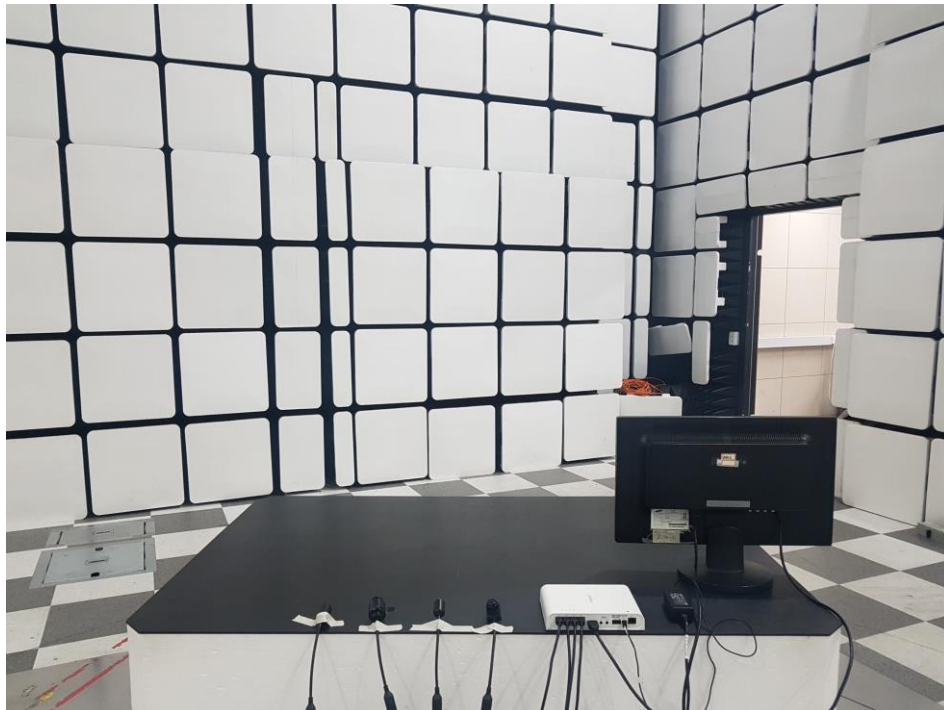
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



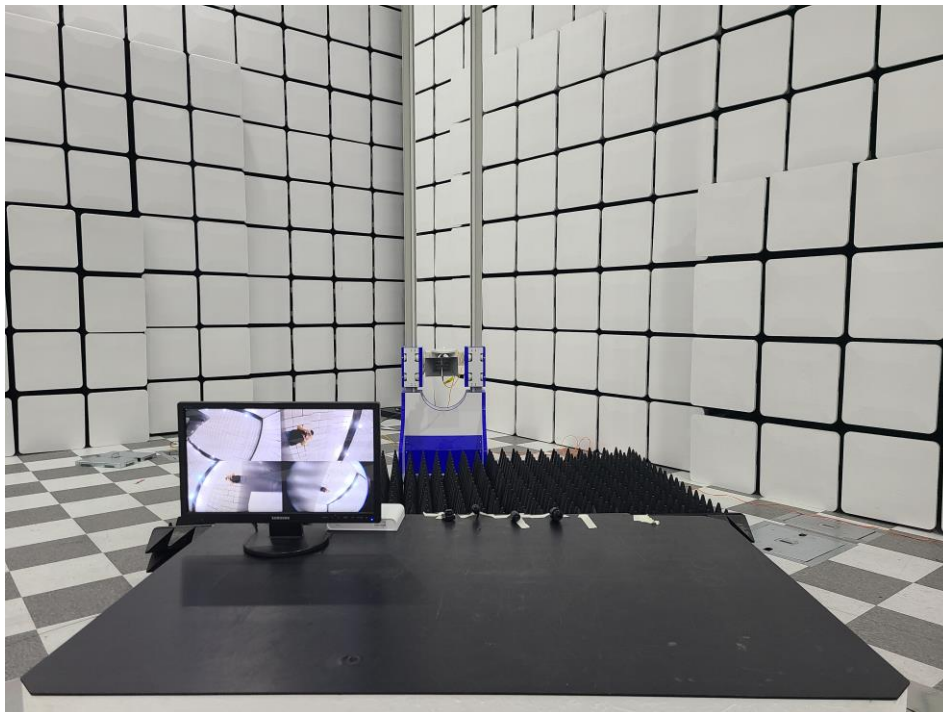
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Radiated Electric Field Emissions(Below 1 GHz)



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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)



EUT Internal View – LENS

(Top)



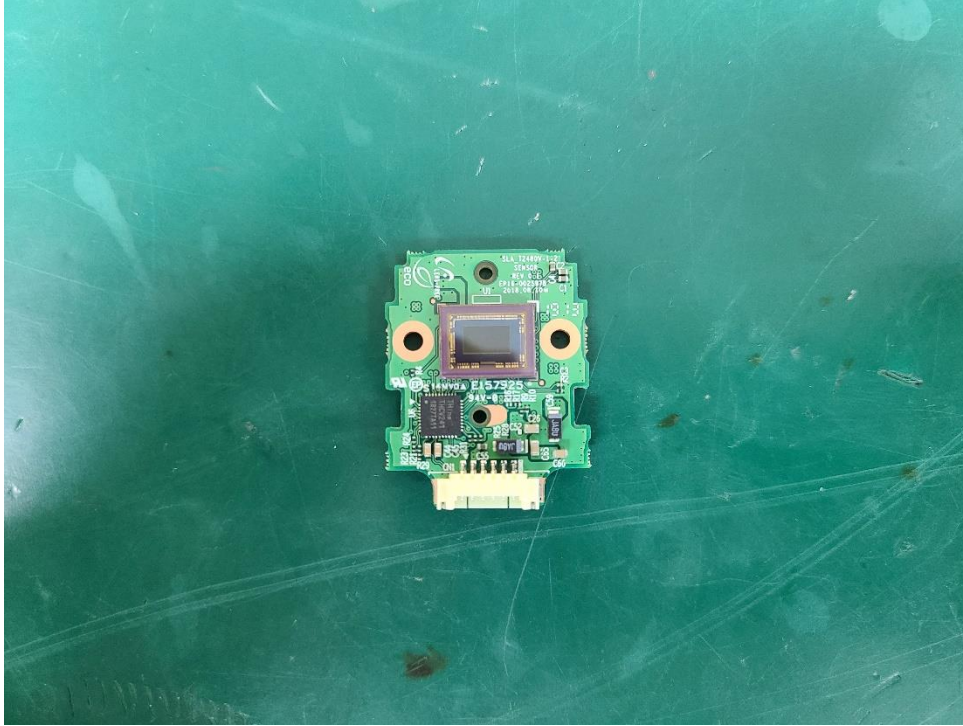
(Bottom)



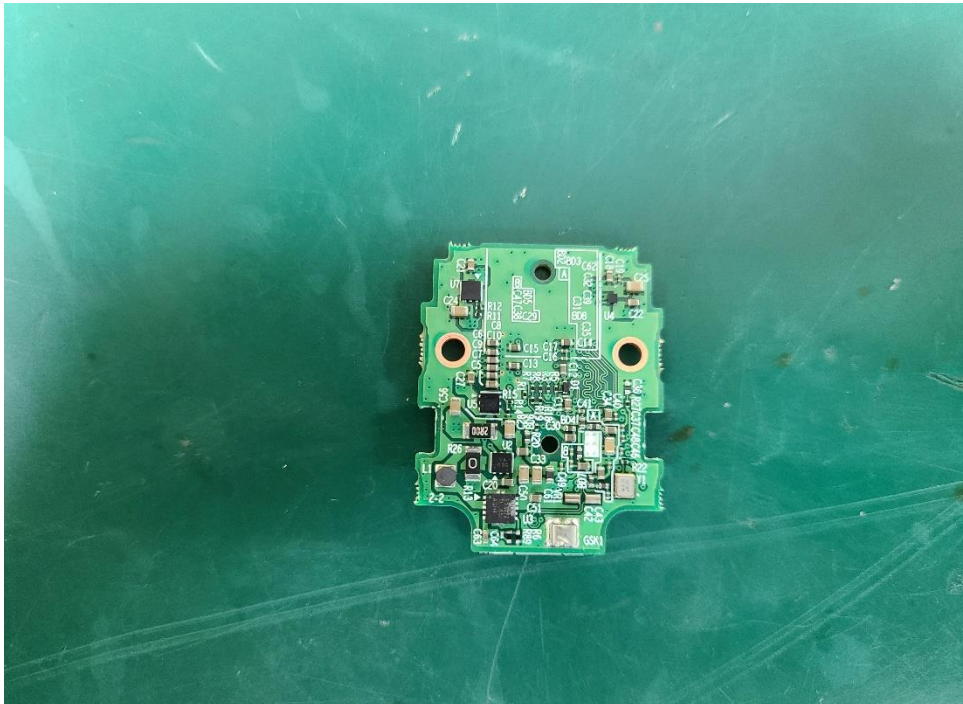
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EUT Internal View – Board

(Top)



(Bottom)



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Label Photographs



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

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

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

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

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