

DECLARATION OF CONFORMITY

We; Samsung Techwin Co., Ltd.
DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE PRODUCT;

Report No: KES-E1-15T0074
Type of equipment: NETWORK CAMERA
Model Name: SND-L5013P
Applicant: Samsung Techwin Co., Ltd.
Address: 84, Jeongdong-ro, Sengsan-gu, Changwon-si,
Gyeongsangnam-do, Korea
Manufacturer : TIANJIN SAMSUNG TECHWIN
OPTO-ELECTRONIC CO.,LTD
No.11 Weiliu Road, Micro-Electronic
Address: Industrial Park, Jingang Road,
Tianjin, 300385, China

Test standards : AS/NZS CISPR22:2009+A1:2010

Classification: C-Tick

The above equipment was tested by EMC compliance Testing Laboratory for with the requirements of C-tick Rules and Regulations. The results of testing in this report apply to the product / system which was tested only.

MAR. 13. 2015
(Date of issue)

(Name and signature of authorized person)



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AS/NZS EMI Test Report

Test Report No. : KES-E1-15T0074
Date of Issue : 03. 13. 2015
Description of Product : NETWORK CAMERA
Model No. : SND-L5013P
Variant Model : -
Applicant : Samsung Techwin Co., Ltd.
Address : 84, Jeongdong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea
Manufacturer : TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO.,LTD
Address : No.11 Weiliu Road, Micro-Electronic Industrial Park, Jingang Road,Tianjin, 300385, China
Applicable Regulation : AS/NZS CISPR22:2009 + A1:2010

Date of Receipt : 02. 26.2015
Test Date : 03. 04. 2015

Tested by:

Kang Hyeon, Kim
Test Engineer

Reviewed by:

Dong Hun, Jang
Technical Manager

Testing Laboratories for Safety and RF Compliance
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Revision history

Revision	Date of issue	Test report No.	Description
-	03. 13. 2015	KES-E1-15T0074	Initial

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1. General Information

1.1 Introduction

The EMI Test Report for CE Declaration of Conformity is prepared on behalf of named applicant in accordance with the EMC Directive(2004/108/EC) of the European Economic Community. The test results reported in this document relate only to the item that was tested.

All radiated emission, conducted emission measurements required by the EMC Directive were performed manually at KES Co., Ltd. (here in after called KES), 473-29, Gayeo-ro, Yeoju-si, Gyeonggi-do, Korea

The radiated emission measurements performed on 10 meter, Open Area Test Site, test range maintained by KES. Complete ANSI63.4;2009 description and site attenuation measurement data records are maintained at the test facility and have been placed on file with the Federal Communications Commission.

The KES EMC test facilities in and Yeoju-si are designated testing laboratory according to ISO/IEC 17025 by Radio Research Agency(RRA), Korea Communication Commission.



1.2 Product Description for Equipment Under Test (EUT)

Samsung Techwin Co., Ltd., NETWORK CAMERA, Model No: SND-L5013P or the "E.U.T". as referred to in this report is base model.

Main Specifications of EUT are:

Video	
Imaging Device	1/2.9" 2.19M CMOS
Total Pixels	2,000(H) x 1,121(V)
Effective Pixels	1,984(H) x 1,105(V)
Scanning System	Progressive
Min. Illumination	Color:0.3Lux(1/30sec,F1.8,50IRE),0.005Lux(2sec,50IRE) Color:0.1Lux(1/30sec,F1.8,30IRE) B/W : 0 Lux (IR LED on)
Lens	
Focal Length (Zoom Ratio)	3.6mm
Max. Aperture Ratio	F1.8
Angular Field of View	H: 86.5°, V: 47.8°, D: 101.2° (±5%)
Min. Object Distance	0.5m
Lens Type	Fixed
Mount Type	Board type
Pan / Tilt / Rotate	
Pan Range	0~350°
Tilt Range	0~67°
Rotate Range	0~355°
Operational	
IR Viewable Length	10m
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	True Day & Night
Backlight Compensation	Off / BLC
Contrast Enhancement	SSDR(SamsungSuperDynamicRange) (Off / On)
Digital Noise Reduction	SSNR(Off / On)
Motion Detection	Off / On (4ea rectangler zones)
Privacy Masking	Off / On (6ea rectangler zones)
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC(Lens distortion correction)	On/Off (5 Levels Min/Max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker
Flip / Mirror	Flip / Mirror / Hallway view
Intelligent Video Analytics	Motion Detection with metadata, Tampering
Alarm Triggers	Motiondetection, Tampering Detection, SD card error
Alarm Events	FileuploadviaFTPandE-Mail LocalstoragerecordingatEvent NotificationviaE-Mail
Network	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MJPEG
Resolution	1920x1080 /1280x960 / 1280x720 / 1024x768 /800x600 / 720x576 / 640x480 / 320x240
Max. Framerate	H.264:Max30fpsatallresolutions MJPEG:Max1fpsat1920x1080/1280x1024/1280x720/1024x768,Max.15fpsatotherresolution
Video Quality Ajustment	H.264:TargetBitrateLevelControl

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	MJPEG:QualityLevelControl
Bitrate control method	H.264:CBRorVBR MJPEG:VBR
Streaming Capability	Multiple Streaming(Up to 3 Profiles)
Audio I/O	Built-in Mic
Audio Compression Format	G.711u-law/G.726Selectable G.726(ADPCM)8KHz,G.7118KHz G.726:16Kbps,24Kbps,32Kbps,40Kbps
Audio Communication	Uni-directional
IP	IPv4, IPv6
Protocol	TCP/IP,UDP/IP,RTP(UDP),RTP(TCP),RTSP,RTSP,NTP,HTTP,HTTPS,SSL,DHCP,PPPoE,FTP,SMT P,ICMP,IGMP,SNMPv1/v2c/v3(MIB-2),ARP,DNS,DDNS,QoS,PIM-SM,UPnP,Bonjour
Security	HTTPS(SSL>LoginAuthentication DigestLoginAuthentication IPAddressFiltering UseraccessLog 802.1XAuthentication
Streaming Method	Unicast / Multicast
Max. User Access	6 users at Unicast Mode
Edge storage	MicroSD/SDHCMax32G,NAS (MotionimagesrecordedintheSDmemorycardcanbedownloaded) (ManualrecordingatLocalPC)
Application Programming Interface	ONVIFProfileS,G SUNAPI(HTTPAPI)
Webpage Language	English,French,German,Spanish,Italian,Chinese,Korean, Russian,Japanese,Swedish,Denish,Portuguese,Turkish,Polish,Czech,Rumanian,Serbian,Dutch,Croat ia,Hungary,Greek,Finnish,Norwegian
Web Viewer	SupportedOS:WindowsXP/VISTA/7/8/8.1,MACOSX10.7~10.10 SupportedBrowser:MicrosoftInternetExplorer(Ver.8~11),MozillaFirefox(Ver.9~35), Google Chrome (Ver. 15~40), Apple Safari (Ver. 8.0.2(Mac OS X 10.10), 8.0.2(Mac OS X 10.9), 6.0.2 (Mac OS X 10.8, 10.7 only), 5.1.7) * Mac OS X only
CentralManagement Software	SmartViewer, SSM
Environmental	
Operating Temperature / Humidity	-10°C ~ +55°C / Less than 90% RH
Storage Temperature / Humidity	-30°C~+60°C(-22°F~+140°F)/ Less than 90% RH
Electrical	
Input Voltage / Current	PoE
Power Consumption	Max. 7.0W
Mechanical	
Color / Material	Ivory / Plastic
Dimension (WxHxD)	Φ110mm x 86mm
Weight	250g

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1.3 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	SND-L5013P	-	TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD	E.U.T

1.4 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Notebook	NT63025J	JK9091EF400432X	SAMSUNG	
Switching Adapter	A13-040N2A	CN60BA4400313AD0N843 KO243	Chicony Power Technology(suzhou) Co., Ltd.	
POE Switch	ANY4805C-LT1	10H300002	ANY ELECTRONICS CO., LTD	
Micro SD Card	-	-	Sadisk	

1.5 External I/O Cabling

Start		End		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
	RJ-45	POE Switch	RJ-45	3.0	Unshielded
Notebook	RJ-45	POE Adapter	RJ-45	3.0	Unshielded

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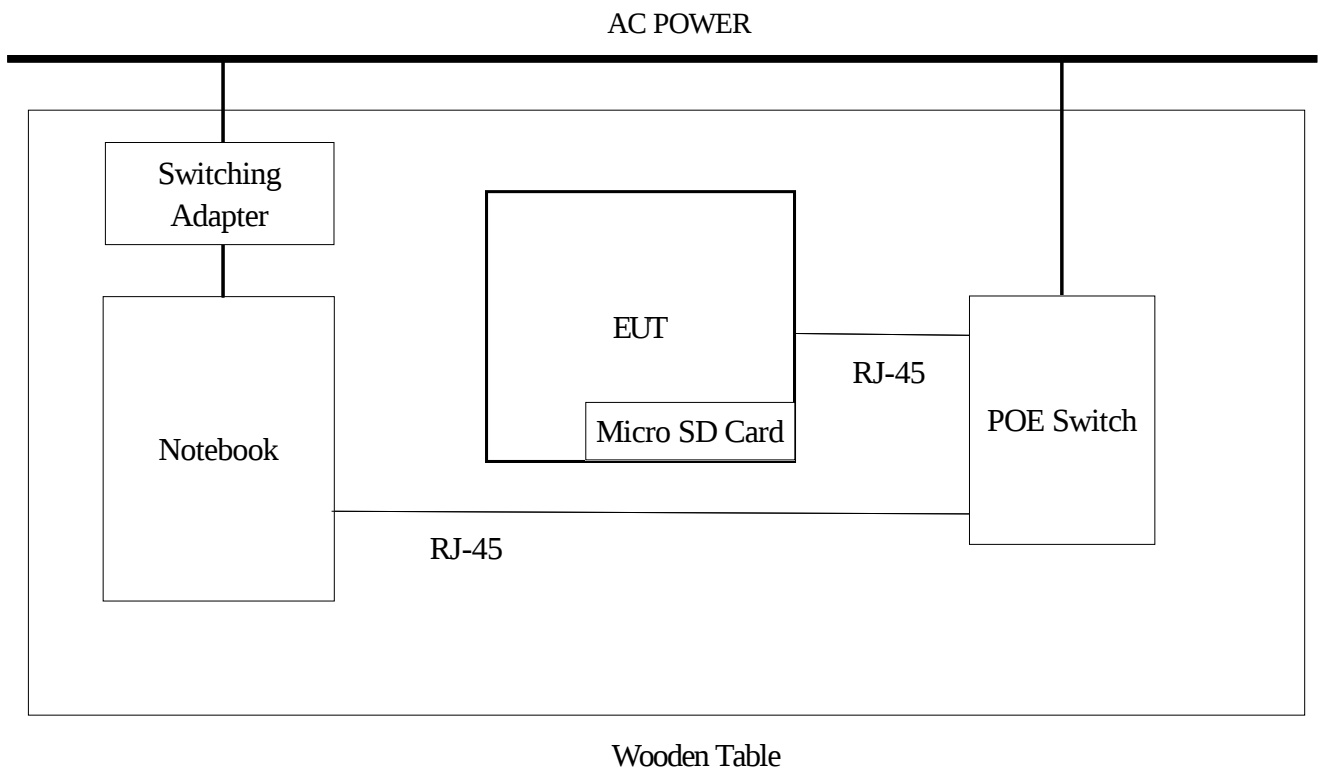
1.6 Special Accessories

As shown in section 1.8, all interface cables used for compliance testing are shielded as normally supplied or by use respective component manufacturers.

1.7 EUT Modifications

No modifications were made to the EUT in order to achieve and maintain compliance to the standards described in this report.

1.8 Configuration of Test System



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1.9 Operating condition

- Ping test
- web view monitoring

Test standards and results

Specifications	Description	Test Point	Remark
CISPR22, Class A	Conducted Emission	AC Input Port	N/A(1)
CISPR22, Class A	Radiated Emission	Enclosure	C

Note : C=Complies N/C=Not Complies N/T=Not Tested N/A=Not Applicable

Note (1) : This device is operate by POE power. Test is not applicable.

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1. Test Performed

1.1 Conducted Emission Measurements

1.1.1 Test Description

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was placed on a wooden table, 80 centimeters height above the floor. Power was fed to the EUT through a 50 ohm/ 50 micro henry Line Impedance Stabilization Network (LISN). The ground plane that was electrically bonded to the shield room ground system and all power lines entering the shield room were filtered.

1.1.2 Test Equipments

Description	Manufacturer	Model Number	Serial Number	Cal. Due
EMI Receiver/Signal Analyzer	Narda S.T.S / PMM	PMM 9010F	020WW31006	04. 04. 2015
LISN	R&S	ENV216	101137	02. 10. 2016
LISN	EMCO	3810/2	2228	-
8-Wire ISN CAT3	Schwarzbeck Mess	CAT3 8158	8158-0019	04.08.2015
8-Wire ISN CAT5	Schwarzbeck Mess	NTFM 8158	8158-0030	05.21.2015
8-Wire ISN CAT6	Schwarzbeck Mess	NTFM 8158	8158-0029	08.15.2015
Electro wave Shieldroom	SEMITEC	-	-	-

1.1.3 Test Environments

Ambient Temperatures : see the data
Relative Humidity : see the data

1.1.4 Test Limits

Frequency (MHz)	CISPR Publication 22			
	Class B		Class A	
	QP	AV	QP	AV
0.15 to 0.50	66 to 56	56 to 46	79	66
0.50 to 5.00	56	46	73	60
5.00 to 30.00	60	50	73	60

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- Telecommunication

Frequency (MHz)	CISPR 22(Voltage)			
	Class B (dB μ V)		Class A (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0.50	84.0 to 74.0	74.0 to 64.0	97.0 to 87.0	84.0 to 74.0
0.50 to 30.00	74.0	64.0	87.0	74.0

Frequency (MHz)	CISPR 22(Current)			
	Class B (dB μ A)		Class A (dB μ A)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0.50	40.0 to 30.0	30.0 to 20.0	53.0 to 43.0	40.0 to 30.0
0.50 to 30.00	30.0	20.0	43.0	30.0

1.1.5 Test Procedure

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The analyzer's 6 dB bandwidth was set to 9 kHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

The conducted emission test was performed with the EUT exercise program loaded, and the emissions were scanned between 150 kHz to 30 MHz on the HOT side and NEUTRAL side, herein referred to as H and N, respectively.

1.1.6 Test Results

According to the data in section 2.1.7, the EUT complied with the CISPR22 standards.



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1.1.7 Test Data

Temperature: °C Humidity: R.H. Test Date: Tested by:

Polarization: HOT

N/A

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Polarization: NEUTRAL

N/A

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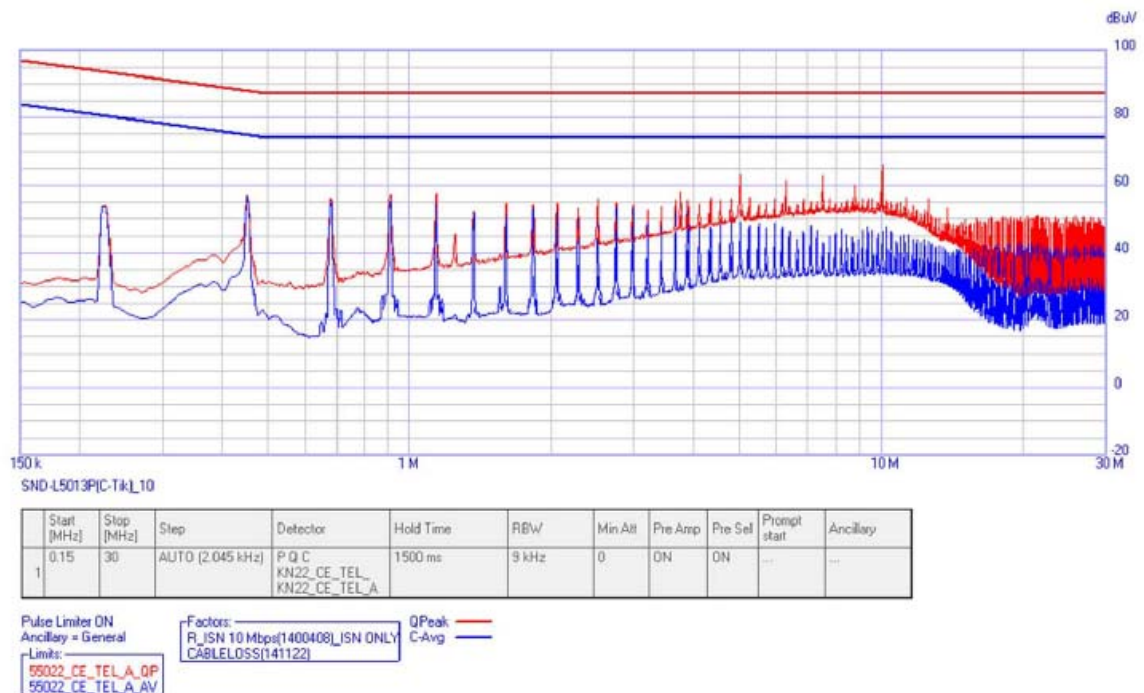
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- Telecommunication

Temperature: 20.1 °C Humidity: 36.0 % R.H. Test Date: 03. 04. 2015 Tested by: Kang Hyeon, Kim
[10 Mbps]



Frequency [MHz]	Q-Peak [dBμV]	Limit [dBμV]	Margin [dB]	C-Avg [dBμV]	Limit [dBμV]	Margin [dB]	Factor (ISN) [dB]	Factor (Cable Loss) [dB]
0.226	53.980	93.610	-39.630	53.550	80.610	-27.060	10.170	0.030
0.442	43.660	88.020	-44.360	35.760	75.020	-39.260	10.040	0.030
0.453	56.760	87.830	-31.070	56.000	74.830	-18.830	10.050	0.030
0.455	56.760	87.790	-31.030	56.000	74.790	-18.790	10.050	0.030
5.019	63.040	87.000	-23.960	43.760	74.000	-30.240	9.850	0.180
6.269	61.300	87.000	-25.700	34.590	74.000	-39.410	9.830	0.210
7.508	62.760	87.000	-24.240	39.140	74.000	-34.860	9.820	0.250
8.753	59.930	87.000	-27.070	34.870	74.000	-39.130	9.820	0.280
10.046	66.060	87.000	-20.940	41.730	74.000	-32.270	9.810	0.280

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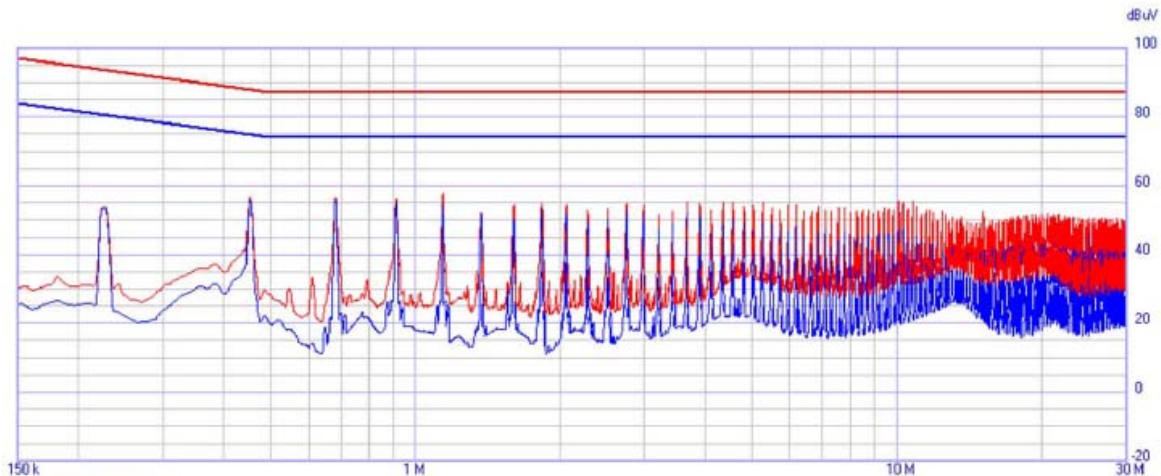


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[100 Mbps]



SND-L5013P[C-Tk]_100

Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
0.15	30	AUTO (2.045 kHz)	P Q C KN22_CE_TEL KN22_CE_TEL_A	1500 ms	9 kHz	0	ON	ON	...	...

Pulse Limiter ON

Ancillary = General

Limits:

55022_CE_TEL_A_QP

55022_CE_TEL_A_AV

Factors:
R_ISN 100 Mbps(1400521)_ISN ONLY
CABLELOSS(141122)

QPeak

C-Avg

Frequency [MHz]	Q-Peak [dBμV]	Limit [dBμV]	Margin [dB]	C-Avg [dBμV]	Limit [dBμV]	Margin [dB]	Factor (ISN) [dB]	Factor (Cable Loss) [dB]
0.226	53.950	93.610	-39.660	53.460	80.610	-27.150	9.710	0.030
0.453	56.610	87.830	-31.220	55.620	74.830	-19.210	9.590	0.030
0.455	56.610	87.790	-31.180	55.620	74.790	-19.170	9.590	0.030
0.682	56.300	87.000	-30.700	55.380	74.000	-18.620	9.530	0.040
0.909	56.110	87.000	-30.890	54.600	74.000	-19.400	9.490	0.040
0.913	56.110	87.000	-30.890	54.600	74.000	-19.400	9.490	0.040
1.140	57.880	87.000	-29.120	54.640	74.000	-19.360	9.470	0.040
10.046	55.520	87.000	-31.480	42.100	74.000	-31.900	9.270	0.280
10.762	55.250	87.000	-31.750	40.100	74.000	-33.900	9.260	0.310

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[1 000 Mbps]

N/A

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1.2 Radiated Emission Measurements

1.2.1 Test Description

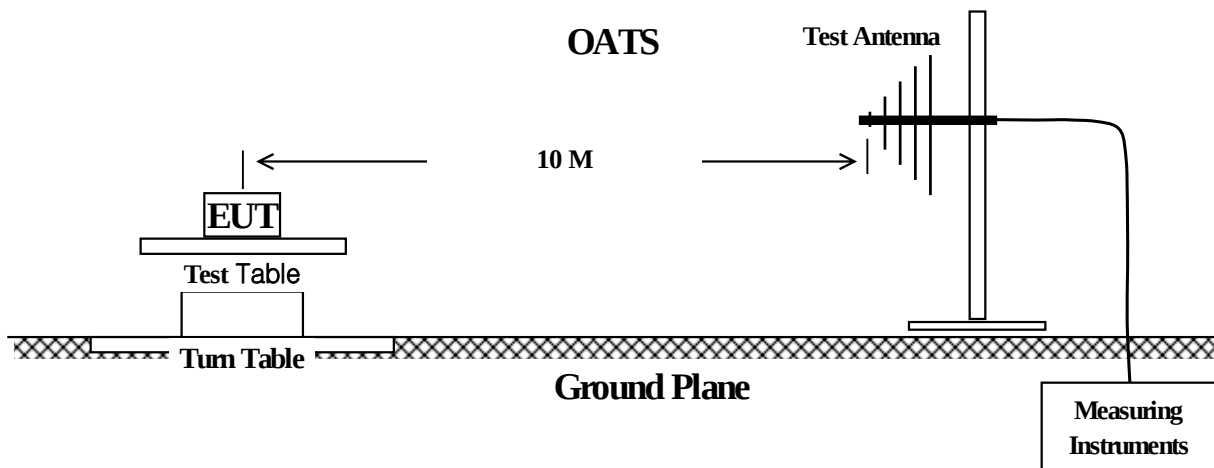
The radiated emissions measurements were performed on the ten-meter, open-field test site. The EUT was placed on a nonconductive turntable approximately 0.8 meters above the ground plane.

The frequency spectrum from 30 MHz to 1 000 MHz and 1 000 MHz to 6 000 MHz was scanned and maximum emission levels at each frequency recorded.

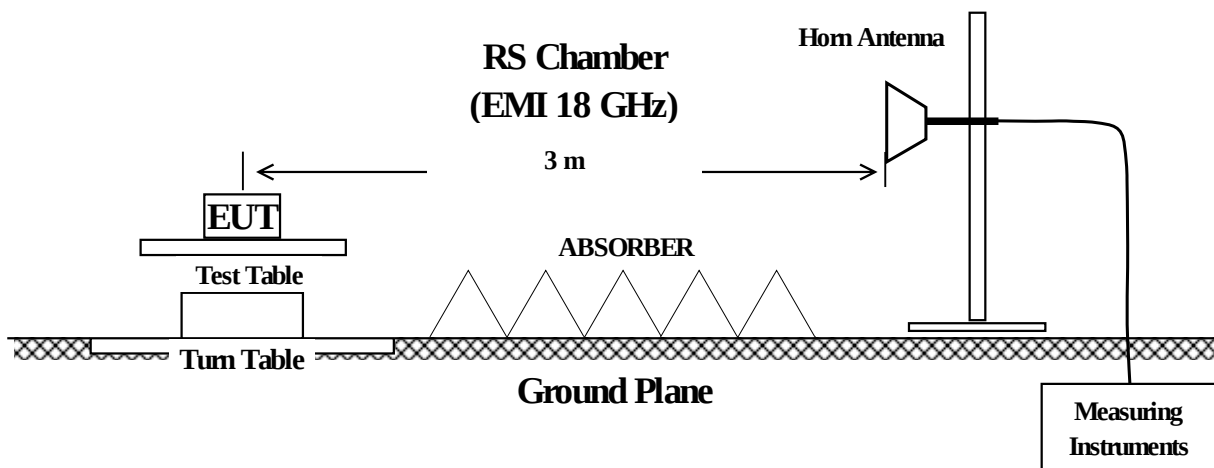
The system was rotated 360°, and the antenna was varied in the height between 1.0 and 4.0 meters in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

- above 1 GHz : Antenna height is fixed to 1.0 m

* Below 1 GHz



* Above 1 GHz



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1.2.2 Test Equipments

Description	Manufacturer	Model Number	Serial Number	Cal. Due
EMI TEST Receiver	R & S	ESVS10	826008/014	04.09.2014
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-385	05.09.2015
EMC Analyzer	Agilent	E7405A	US41160306	08.16.2014
PREAMPLIFIER	8449B	H.P	3008A00538	07.23.2015
DOUBLE RIDGED HORN ANTENNA	A.H. SYSTEMS, INC	SAS-571	781	05.13.2015
RS Chamber (EMI 18GHz)	SEMITEC	-	-	-

1.2.3 Test Environments

Temperatures : see the data

Humidity : see the data

1.2.4 Test Limits*** Below 1 GHz**

Frequency (MHz)	CISPR Publication 22	
	Class B	Class A
	Quasi-peak dB(uV/m)	Quasi-peak dB(uV/m)
0,15 to 30	Under consideration	Under consideration
30 to 230	30	40
230 to 1 000	37	47

*** Above 1 GHz**

Frequency (MHz)	CISPR Publication 22			
	Class B @ 3 m (dB μ V/m)		Class A @ 3 m (dB μ V/m)	
	PK	AV	PK	AV
1 000 to 3 000	70	50	76	56
3 000 to 6000	74	54	80	60

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1.2.5 Test Procedure

Before final measurements of radiated emission were made on the OATS, the EUT was scanned in semi-anechoic chamber in order to determine its emission spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emission in amplitude, direction and frequency. This process was repeated during final radiated emission measurements on the OATS range, at each frequency, in order to ensure that maximum emissions amplitudes were attained.

The radiated emission test was performed with EUT exercise program loaded, and the emissions were scanned between 30 MHz to 1 000 MHz and 1 000 MHz to 6 000 MHz using the spectrum analyzer. The spectrum analyzer's 6 dB bandwidth was set to 120 kHz(1 MHz), and the analyzer was operated in the CISPR quasi-peak (Peak) detection mode.

Measurements were taken using both HORIZONTAL and VERTICAL antenna polarization, herein referred to as H and V, respectively.

3.1.1 Field Strength Calculation

The Field Strength (FS) is calculated by adding the Antenna Factor (AF) and Cable Factor (CF) and Amplifier Gain(AG) from the Measured Reading (MR). The basic equation with a sample calculation is as follows:

$$\text{* Below 1 GHz : FS(dB}\mu\text{V/m)} = \text{MR(dB}\mu\text{V)} + [\text{AF(dB/m)} + \text{CF(dB)}]$$

$$\text{* Above 1 GHz : FS(dB}\mu\text{V/m)} = \text{MR(dB}\mu\text{V)} + [\text{AF(dB/m)} + \text{CF(dB)}] - \text{AG}$$

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1.2.6 Test Results

According to the data in section 3.2.7, the EUT complied with the CISPR22 standards.

1.2.7 Test Data*** Below 1 GHz**

Temperature: 3.0 °C Humidity: 42.0 % R.H. Test Date: 03. 04. 2015 Tested by: Kang Hyeon, Kim

Frequency (MHz)	Amplitude (dB μ V/m)	Antenna		Correction Factor		Corrected Amplitude (dB μ V/m)	Applicable Limit (dB μ V/m)	Margin (dB)
		Polar. (H/V)	Height (m)	Ant. (dB)	Cable (dB)			
49.425	19.400	V	1.170	13.630	1.610	34.640	40.000	5.360
74.622	20.300	V	1.000	10.470	2.030	32.800	40.000	7.200
149.315	15.600	H	3.690	13.010	2.900	31.510	40.000	8.490
259.878	17.200	V	1.000	12.080	3.970	33.250	47.000	13.750
334.528	22.200	H	4.000	14.150	4.640	40.990	47.000	6.010
389.874	19.100	H	4.000	15.360	5.060	39.520	47.000	7.480
497.514	15.800	H	3.600	17.700	5.890	39.390	47.000	7.610
594.254	13.300	V	1.820	19.500	6.520	39.320	47.000	7.680

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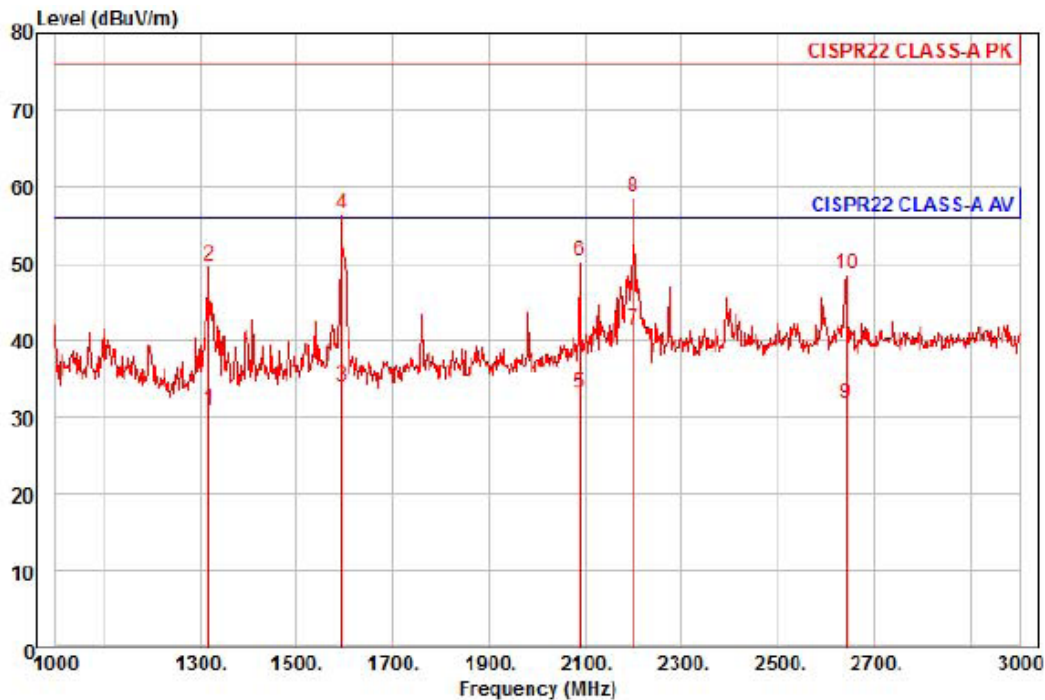
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* Above 1 GHz

Temperature: 20.1 °C Humidity: 36.0 % R.H. Test Date: 03. 04. 2015 Tested by: Kang Hyeon, Kim



Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SND-L5013P
Mode : C-Tik
Memo : (1 - 3) GHz

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	1320.00	36.22	24.29	6.21	35.67	298	56.00	-24.95	horizontal	Average
2	1320.00	54.92	24.29	6.21	35.67	298	76.00	-26.25	horizontal	Peak
3	1594.00	36.81	25.62	6.88	35.21	276	56.00	-21.90	horizontal	Average
4	1594.00	59.09	25.62	6.88	35.21	276	76.00	-19.62	horizontal	Peak
5	2090.00	31.22	28.38	8.05	34.47	328	56.00	-22.82	horizontal	Average
6	2090.00	48.50	28.38	8.05	34.47	328	76.00	-25.54	horizontal	Peak
7 pp	2200.00	38.88	28.62	8.28	34.39	72	56.00	-14.61	horizontal	Average
8 pk	2200.00	56.09	28.62	8.28	34.39	72	76.00	-17.40	horizontal	Peak
9	2642.00	27.18	29.54	9.21	34.09	320	56.00	-24.16	horizontal	Average
10	2642.00	43.86	29.54	9.21	34.09	320	76.00	-27.48	horizontal	Peak

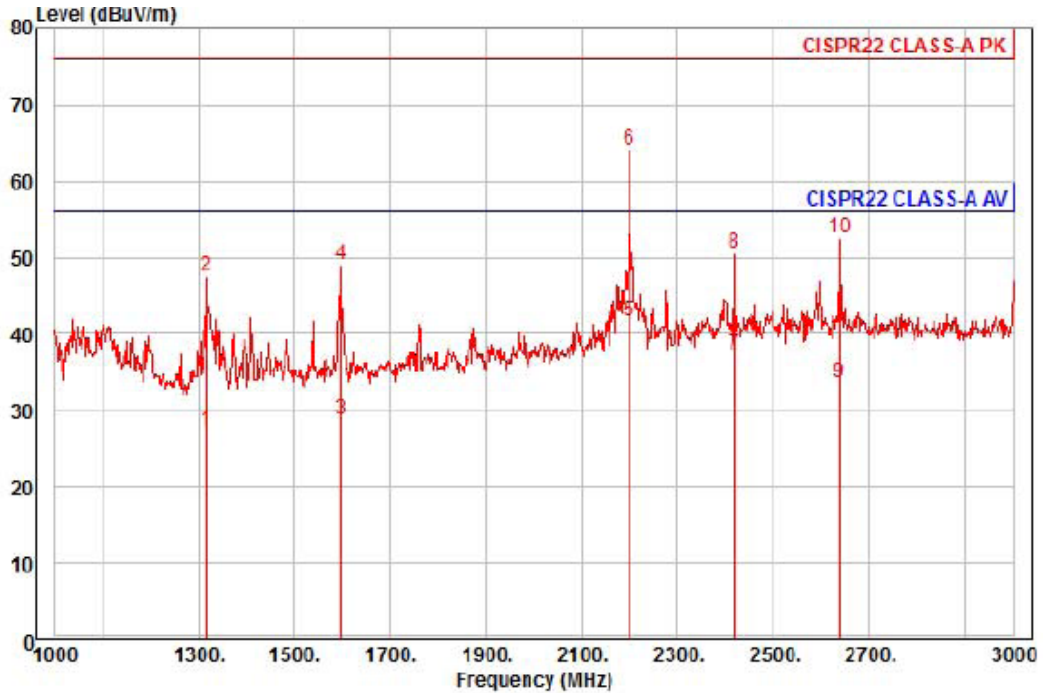
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Test report No.:
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Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SND-L5013P
Mode : C-Tik
Memo : (1 - 3) GHz

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	1318.00	32.40	24.28	6.21	35.67	82	56.00	-28.78	vertical	Average
2	1318.00	52.63	24.28	6.21	35.67	82	76.00	-28.55	vertical	Peak
3	1598.00	31.47	25.64	6.89	35.20	29	56.00	-27.20	vertical	Average
4	1598.00	51.71	25.64	6.89	35.20	29	76.00	-26.96	vertical	Peak
5 av	2200.00	39.12	28.62	8.28	34.39	86	56.00	-14.37	vertical	Average
6 pp	2200.00	61.48	28.62	8.28	34.39	86	76.00	-12.01	vertical	Peak
7	2420.00	33.67	29.09	8.74	34.24	113	56.00	-18.74	vertical	Average
8	2420.00	46.97	29.09	8.74	34.24	113	76.00	-25.44	vertical	Peak
9	2640.00	29.00	29.54	9.20	34.09	24	56.00	-22.35	vertical	Average
10	2640.00	47.92	29.54	9.20	34.09	24	76.00	-23.43	vertical	Peak

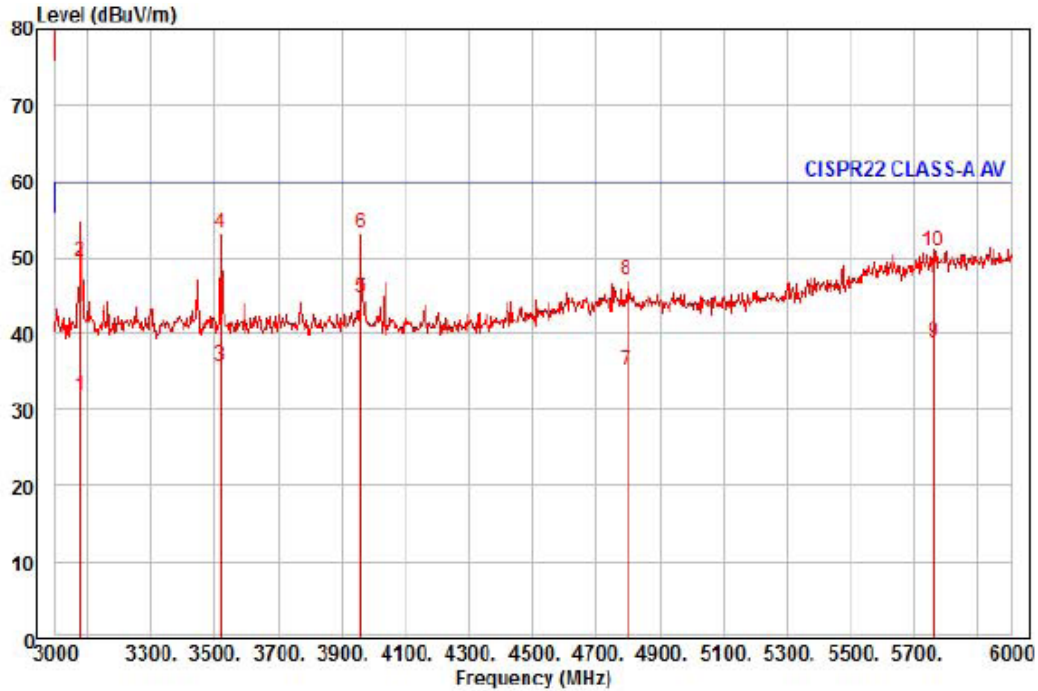
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Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SND-L5013P
Mode : C-Tik
Memo : (3 - 6) GHz

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	3078.00	25.50	30.28	10.08	33.93	139	60.00	-28.07	horizontal	Average
2	3078.00	43.10	30.28	10.08	33.93	139	80.00	-30.47	horizontal	Peak
3	3519.00	28.89	30.49	10.77	34.43	96	60.00	-24.28	horizontal	Average
4	3519.00	46.40	30.49	10.77	34.43	96	80.00	-26.77	horizontal	Peak
5 pp	3960.00	36.33	31.80	11.46	34.92	101	60.00	-15.33	horizontal	Average
6 pk	3960.00	44.91	31.80	11.46	34.92	101	80.00	-26.75	horizontal	Peak
7	4797.00	22.76	33.05	12.84	33.57	40	60.00	-24.92	horizontal	Average
8	4797.00	34.70	33.05	12.84	33.57	40	80.00	-32.98	horizontal	Peak
9	5760.00	20.94	34.52	16.57	33.32	126	60.00	-21.29	horizontal	Average
10	5760.00	32.98	34.52	16.57	33.32	126	80.00	-29.25	horizontal	Peak

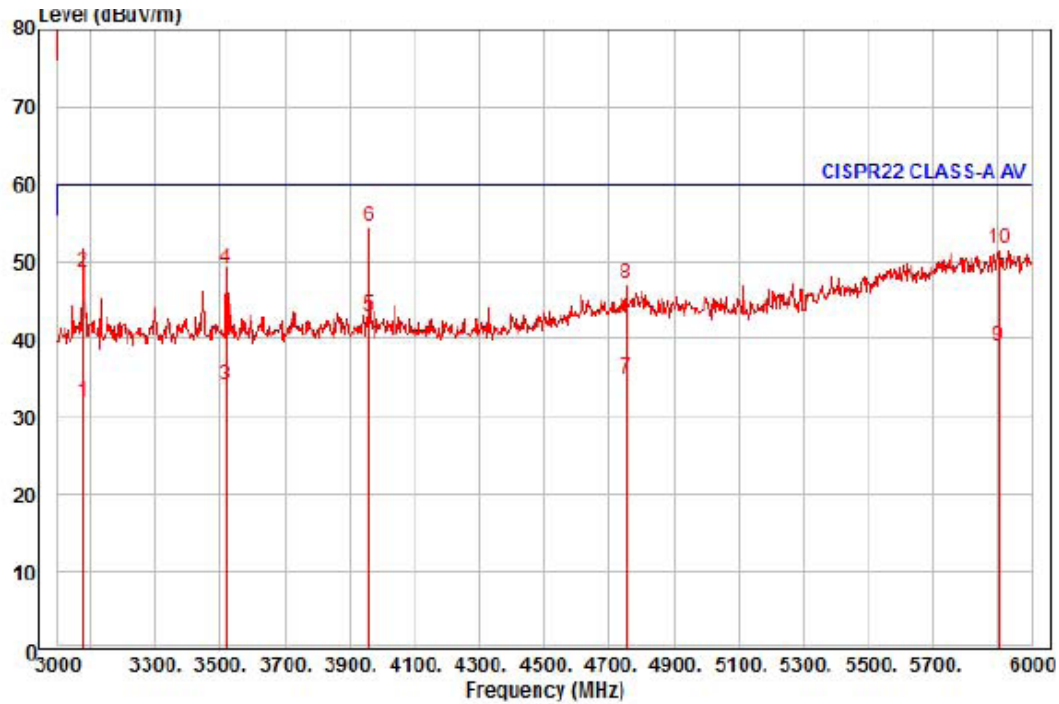
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Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN ANT (2014.03.10) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : NETWORK CAMERA
EUT : SND-L5013P
Mode : C-Tik
Memo : (3 - 6) GHz

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	3078.00	25.36	30.28	10.08	33.93	322	60.00	-28.21	vertical	Average
2	3078.00	42.14	30.28	10.08	33.93	322	80.00	-31.43	vertical	Peak
3	3519.00	27.14	30.49	10.77	34.43	209	60.00	-26.03	vertical	Average
4	3519.00	42.14	30.49	10.77	34.43	209	80.00	-31.03	vertical	Peak
5 pp	3960.00	34.62	31.80	11.46	34.92	220	60.00	-17.04	vertical	Average
6 pk	3960.00	46.09	31.80	11.46	34.92	220	80.00	-25.57	vertical	Peak
7	4755.00	22.88	32.90	12.77	33.64	151	60.00	-25.09	vertical	Average
8	4755.00	35.03	32.90	12.77	33.64	151	80.00	-32.94	vertical	Peak
9	5901.00	20.26	34.97	17.20	33.34	123	60.00	-20.91	vertical	Average
10	5901.00	32.89	34.97	17.20	33.34	123	80.00	-28.28	vertical	Peak

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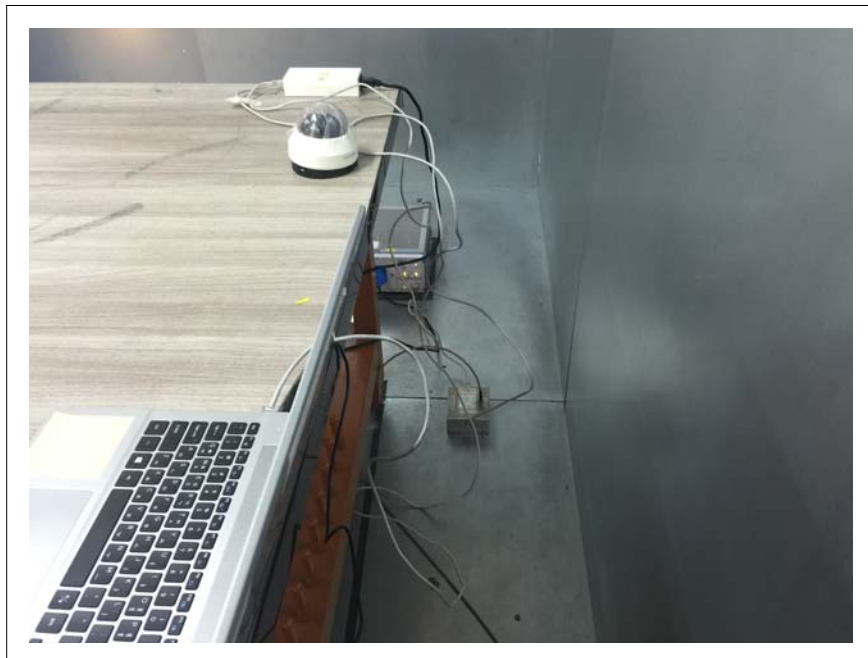
2. Test Setup Photographs

2.1 Conducted Emission

N/A

N/A

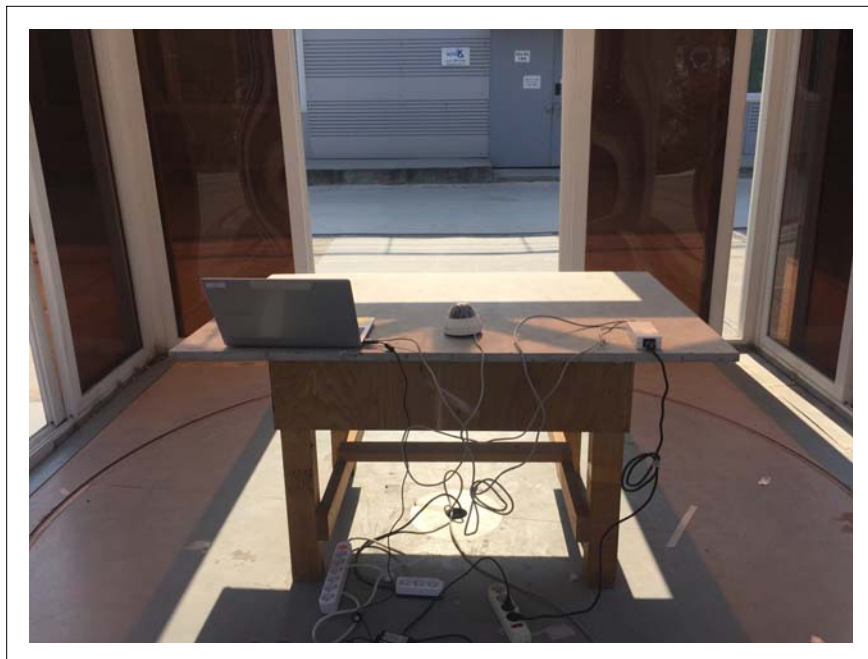
- **Telecommunication Emission**



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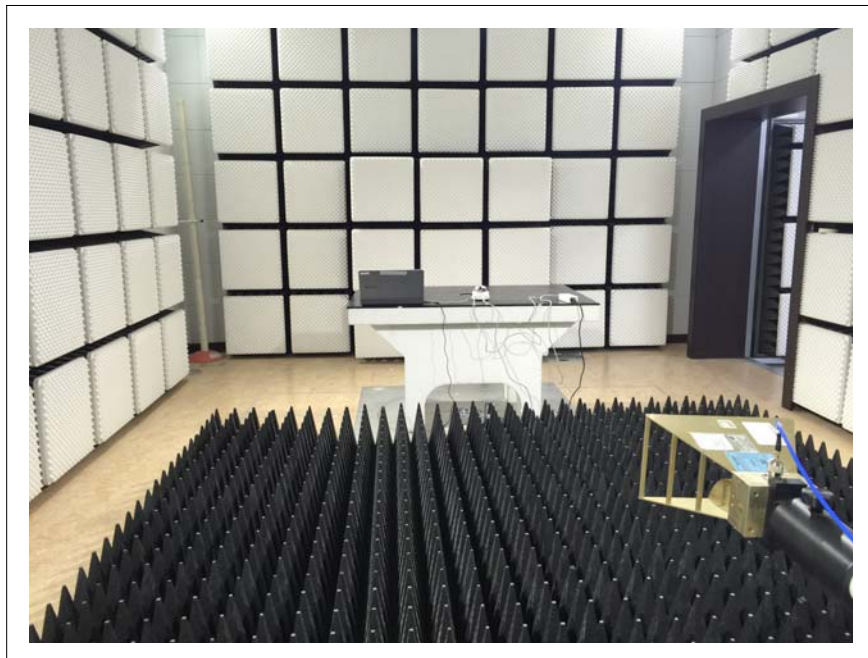
2.2 Radiated Emission

* Blow 1 GHz



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*** Above 1 GHz**



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3. External Photographs



[FRONT VIEW]



[REAR VIEW]

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4. Internal Photographs



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E.U.T: Internal View(Top) - Main Board



E.U.T: Internal View(Bottom) - Main Board



E.U.T: Internal View(Top) - Lens Board



E.U.T: Internal View(Bottom) - Lens Board

