

CERTIFICATE of EMC Compliance

Report No : EMC-FCC-1872
Type of equipment : Network Camera
Model Name : SND-6084RN
Applicant : Samsung Techwin Co., Ltd.
#42 Seongju-Dong, Changwon-Shi,
Kyungsangnam-Do, Korea
Manufacturer#1 : Samsung Techwin Co., Ltd.
#42 Seongju-Dong, Changwon-Shi,
Kyungsangnam-Do, Korea
Manufacturer#2 : TIANJIN SAMSUNG TECHWIN
OPTO-ELECTRONIC CO., LTD
No.11 Weiliu Road. Micro-Electronic Industrial
Park Jingang Road Tianjin 300385, China
Test standards : FCC part 15 subpart B, Class A
Classification : Verification

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

These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

Laboratory

EMC compliance Ltd.
480-5 Sin-dong, Yeongtong-gu,
Suwon-city, Gyeonggi-do, 443-390, Korea

Tel: 82 31 336 9919
Fax: 82 505 299 8311



Yeom, Han-Seok/ Manager

EMI TEST REPORT

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No.11 Weiliu Road. Micro-Electronic Industrial
Park Jingang Road Tianjin 300385, China
Test standards : FCC part 15 subpart B, Class A
Classification : Verification
Test Procedure and Items
- Radiated Emissions Measurement : ANSI C63.4-2009
Testing Laboratory : EMC Compliance Ltd.
Test result : Complied

The above equipment was tested by EMC compliance Testing Laboratory for compliance with the requirements of FCC Rules and Regulations. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

Date of receipt: 2013. 03. 20

Date of testing: 2013. 03. 28

Issued date: 2013. 04. 10

Tested by:


PARK, GUN-SU

Approved by:


YEOM, HAN-SEOK

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1. Applicant information

Applicant: SAMSUNG TECHWIN CO., LTD.
Address: #42 Seongju-Dong, Changwon-Shi,
Kyungsangnam-Do, Korea
Telephone: +82-70-7147-8361
Fax: +82-31-277-2784
E-mail: js2002.kang@samsung.com
Contact name: **Kang Jei Soon**

Manufacturer#1: SAMSUNG TECHWIN CO., LTD.
Address: #42 Seongju-Dong, Changwon-Shi,
Kyungsangnam-Do, Korea
Telephone: +82-70-7147-8361
Fax: +82-31-277-2784
E-mail: js2002.kang@samsung.com
Contact name: **Kang Jei Soon**

Manufacturer#2: TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD
Address: No.11 Weiliu Road. Micro-Electronic Industrial Park
Jingang Road Tianjin 300385, China

2. Laboratory information

Address

EMC compliance Ltd.

480-5 Sin-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, 443-390, Korea

Telephone Number: 82 31 336 9919

Facsimile Number: 82 505 299 8311

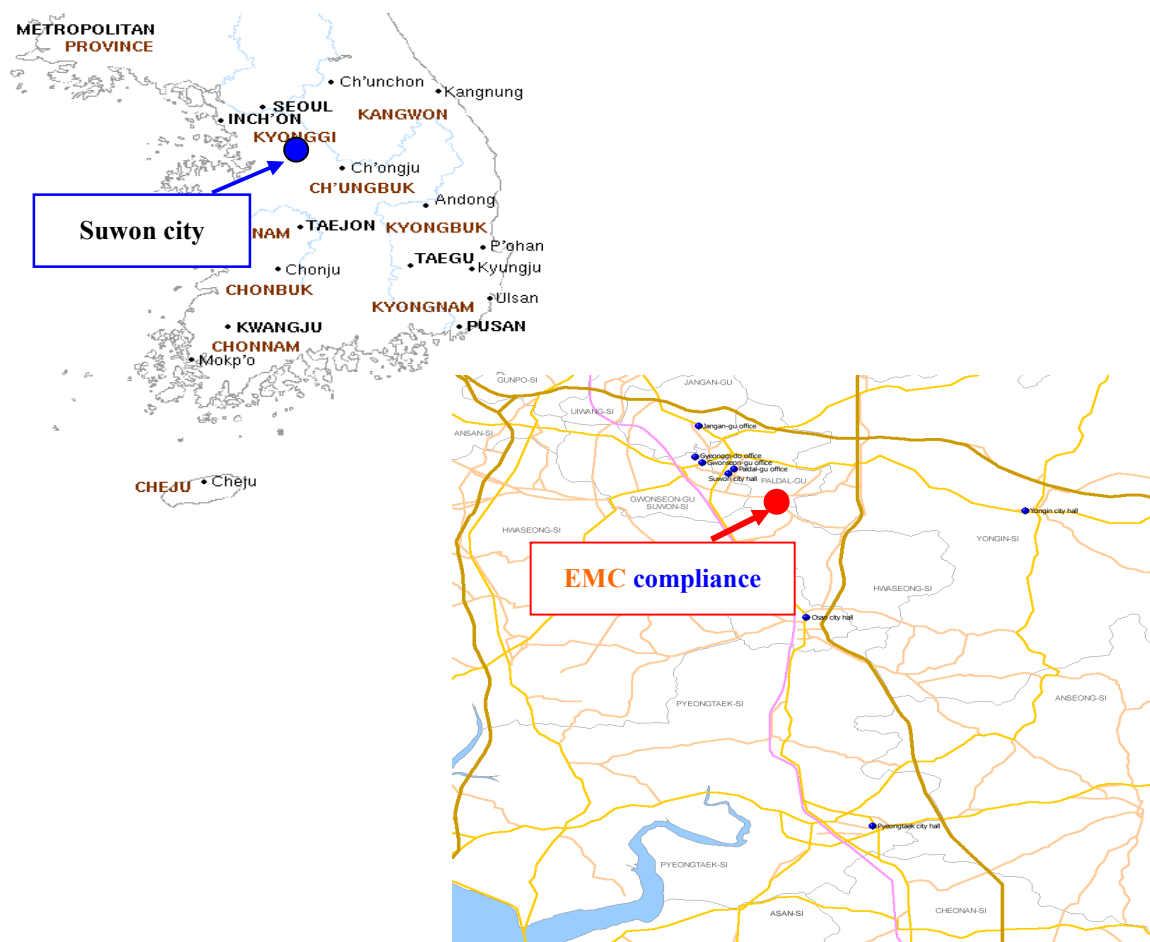
FCC CAB.: KR0040

VCCI Registration No. : R-3327, G-198, C-3706, T-1849

Industry Canada Registration No.: 8035A

KOLAS NO.: 231

SITE MAP



3. Test system configuration

3.1 Operation environment

	Temperature	Humidity	Pressure
Chamber(10 m)	: 24 °C	30 % R.H.	-

Test site

These testing items were performed following locations;

Test item	Test site
Conducted Emission	Shielded Room
Radiated Emission	10 m Chamber

3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Conducted emission measurement (C.L: Approx 95 %, k = 2)		
Shielded Room (CE#1)	9 kHz ~ 150 kHz: ± 3.82 dB 150 kHz ~ 30 MHz: ± 3.43 dB	
Shielded Room (CE#2)	9 kHz ~ 150 kHz: ± 3.82 dB 150 kHz ~ 30 MHz: ± 3.43 dB	
Shielded Room (CE#3)	9 kHz ~ 150 kHz: ± 4.00 dB 150 kHz ~ 30 MHz: ± 3.63 dB	
Radiated Emission measurement (C.L: Approx 95 %, k = 2)		
10 m Chamber (#F4)	30 MHz ~ 300 MHz	3 m: + 4.56 dB, - 4.58 dB 10 m: + 4.56 dB, - 4.56 dB
	300 MHz ~ 1 000 MHz	3 m: + 4.84 dB, - 4.85 dB 10 m: + 4.71 dB, - 4.72 dB
	1 GHz ~ 6 GHz	3 m: + 6.19 dB, - 6.20 dB
	6 GHz ~ 18 GHz	3 m: + 6.41 dB, - 6.53 dB
10 m Chamber (#F2)	30 MHz ~ 300 MHz	3 m: + 4.86 dB, - 4.88 dB 10 m: + 4.86 dB, - 4.86 dB
	300 MHz ~ 1 000 MHz	3 m: + 4.98 dB, - 4.99 dB 10 m: + 4.85 dB, - 4.87 dB
	1 GHz ~ 6 GHz	3 m: + 6.19 dB, - 6.20 dB
	6 GHz ~ 18 GHz	3 m: + 6.41 dB, - 6.53 dB

4. Description of E.U.T.

4.1 General information

Items		Description		
		SND-6084R	SNO-6084R	SNV-6084R
Video	Imaging Device	1/2.8" PS Exmor 2.38M CMOS (IMX136)		
	Total Pixels	1952(H) x 1116(V)		
	Effective Pixels	1944(H) x 1104(V)		
	Scanning System	Progressive		
	Min. Illumination	Color : 0.1 Lux (F1.2, 50IRE), 0.01Lux (30fps 2sec, 50IRE) B/W : 0 Lux(IR LED on)		
	S / N Ratio	50dB		
	Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 704x480(N), 704x576(P), for installation - DIP connector type		
Lens	Focal Length (Zoom Ratio)	3~ 8.5mm (2.8X) Varifocal		
	Max. Aperture Ratio	F1.2		
	Angular Field of View	H : 105.5° (Wide) ~ 37.1° (Tele), V : 57.5° (Wide) ~ 21.0° (Tele)		
	Min. Object Distance	0.5 m		
	Focus Control	Simple Focus (Motorized V/F) / Manual - Remote control via network (Manual, Simple Focus, Day&Night)	Simple Focus (Motorized V/F) / Manual - Remote control via network (Manual, Simple Focus)	Simple Focus (Motorized V/F) / Manual - Remote control via network (Manual, Simple Focus, Day&Night)
Lens	Lens Type	DC Auto Iris		
	Mount Type	Board-in type		
Pan / Tilt / Rotate	Pan Range	0° ~ +354°	-	0° ~ +354°
	Tilt Range	0° ~ +67°	-	0° ~ +67°
	Rotate Range	0° ~ +355°	-	0° ~ +355°

Items		Description		
		SND-6084R	SNO-6084R	SNV-6084R
Operational	IR LED	12 ea	20 ea	12 ea
	Viewable Length	15m	30m	15m
	Camera Title	Off / On (Displayed up to 45 characters)		
	Day & Night	Auto (ICR) / Color / B/W / External / Schedule		
	Backlight Compensation	Off / BLC		
	Wide Dynamic Range	100dB↑		
	Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)		
	Digital Noise Reduction	SSNRlll (2D+3D Noise Filter) (Off / On)		
	Digital Image Stabilization	Off / On		
	Defog	Auto/Manual/Off		
	Motion Detection	Off / On (4ea 4 Points Polygonal zones)		
	Privacy Masking	Off / On (32 Zones with 4 Points of Polygonal)		
	Gain Control	Off / Low / Middle / High		
	White Balance	ATW / AWC / Manual / Indoor / Outdoor		
	Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)		
	Digital PTZ	-		

Items	Description		
	SND-6084R	SNO-6084R	SNV-6084R
Operational	Flip / Mirror	Off / On	
	Intelligent Video Analytics	Tampering, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Face Detection	
	Alarm I/O	Input 1ea / Output 1ea	
	Alarm Triggers	Motion detection, Tampering, Audio Detection, Face Detection, Video Analytics, Alarm Input, Network Disconnection	
	Alarm events	• File upload via FTP, E-Mail • Notification via E-Mail, TCP • local storage(SD/SDHC/SDXC) recording at Network disconnected • External output	
Network	Ethernet	RJ-45 (10/100BASE-T)	
	Video Compression Format	H.264(MPEG-4 Part 10/AVC), Motion JPEG	
	Resolution	1920x1080 / 1600x1200 / 1280x1024 / 1280x960 / 1280x720 / 1024x768 / 800x600 / 800x450 / 640x480 / 640x360 / 320x240 / 320x180	
	Max. Framerate	H.264 : Max 60fps at all resolutions Motion JPEG : 1920x1080 / 1600x1200 / 1280x1024 / 1280x960 / 1280x720 / 1024x768 : Max. 15 fps 800x600 / 800x450 / 640x480 / 640x360 / 320x240 / 320x180 : Max. 30fps	
	Video Quality Adjustment	H.264 : Compression Level, Target Bitrate Level Control MJPEG : Quality Level Control	
	Bitrate Control Method	H.264 : CBR or VBR Motion JPEG : VBR	

Items	Description		
	SND-6084R	SNO-6084R	SNV-6084R
Network	Streaming Capability	Multiple Streaming (Up to 10 Profiles)	
	Audio I/O	Mic(Line) in / Line out (1Vrms)	
	Audio Compression Format	G.711 u-law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps	
	Audio Communication	Bi-directional	
	IP	IPv4, IPv6	
	Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	
	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1x Authentication	
	Streaming Method	Unicast / Multicast	
	Max. User Access	15 users at Unicast Mode	
	Memory Slot	micro SD/SDHC/SDXC - motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded.	
	Application Programming Interface	ONVIF Profile S HTTP API v2.0 SVNP 1.2	

Items		Description		
		SND-6084R	SNO-6084R	SNV-6084R
Network	Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Czech, Polish, Turkish, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek, Norway, Finland		
	Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS X 10.7 or Higher Supported Browser : Internet Explorer 7.0 or Higher, Firefox 9.0 or Higher, Chrome 15.0 or Higher, Safari 5.1 or Higher		
	Central Management Software	SmartViewer 4.0		
Environmental	Operating Temperature / Humidity	-10°C ~ +55°C / Less than 90% RH	AC24V : -50°C to +55°C / Less than 90% RH DC12V, PoE (IEEE802.3af) : -10°C to +55°C / Less than 90% RH	AC24V : -40°C to +55°C / Less than 90% RH DC12V, PoE (IEEE802.3af) : -10°C to +55°C / Less than 90% RH
	Storage Temperature / Humidity	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH		
	Ingress Protection	-	IP66 Grade (Waterproof)	IP66 Grade
	Vandal Resistance	-		IK10
Electrical	Input Voltage / Current	DC12V, PoE(IEEE802.3af)	AC24V, DC12V, PoE(IEEE802.3af)	
	Power Consumption	Max 8.5W	Max 11W (Heater Off) Max 17W (AC 24V, Heater On)	Max 9.5W (Heater Off) Max 13.5W (AC 24V, Heater On)
Mechanical	Color / Material	IVORY / Polycarbonate(PC)	Dark Gray / Metal	Ivory / Aluminum
	Dimension	Ø132.1 x H107.6mm	Ø90.4X96 x H333.2mm	Ø160 x H118.5mm
	Weight	TBD	1,190g	950g

4.2 Product description

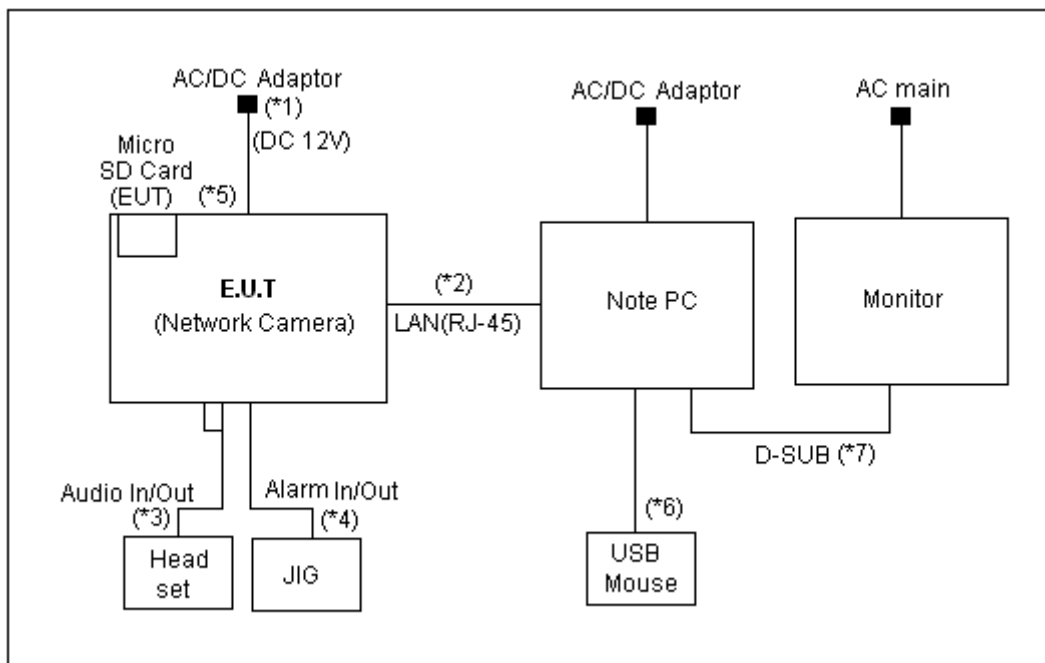
Type of product	Network Camera
Model name (Basic)	SND-6084RN
Model name (Variant)	-
Difference	-
Trade name	-
Serial no	Engineering Sample
Testing voltage	DC 12 V , PoE
Product rating	DC 12 V , PoE
Internal clock frequency	Above 108 MHz
Note	* AC/DC adaptor was not provided by the manufacturer. * PoE Switch was not provided by the manufacturer.

4.3 Auxiliary equipments

Type	Model / Part #	Serial number	Manufacturer
Note PC	PSLQ0K-02N005	2A058417Q	TOSHIBA
Monitor	HSTND-2681-W	CN40090CYF	HP
USB Mouse	1088	8165900241827	Microsoft
Headset	SHS-250V	-	SAMSUNG
JIG	-	-	-
AC/DC Adaptor	-	-	-
PoE Switch	FS108P	1DL20C3K00541	NETGEAR

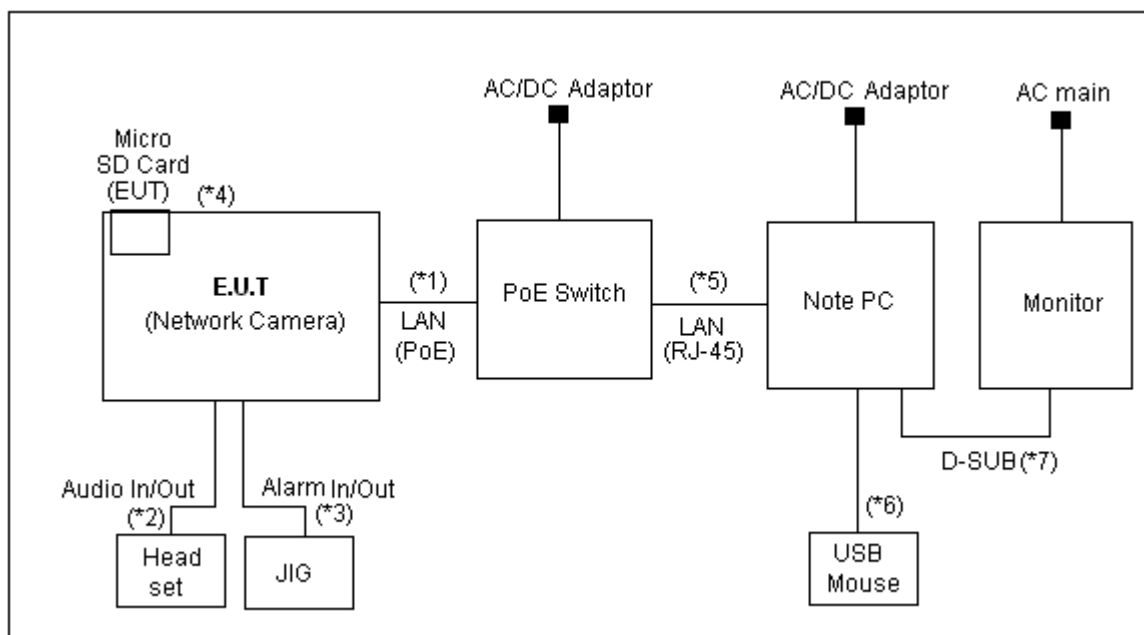
4.4 Test configuration

* DC 12 V



Note	Start		End		Cable	
	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT (Network Camera)	Power	AC/DC Adaptor	Power	1.7	Non-Shield
2		LAN(RJ-45)	Note PC	LAN(RJ-45)	3.0	Non-Shield
3		Audio In/Out	Headset	Audio In/Out	1.8	Non-Shield
4		Alarm In/Out	JIG	Alarm In/Out	3.0	Non-Shield
5		Micro SD Card	Micro SD Card (EUT)	Micro SD Card	Direct	-
6	Note PC	USB	USB Mouse	USB	1.8	Shield
7		D-SUB	Monitor	D-SUB	1.5	Shield

* PoE



*Power supplied from PoE Switch

Note *	Start		End		Cable	
	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT (Network Camera)	LAN(PoE)	PoE Switch	LAN(PoE)	3.0	Non-Shield
2		Audio In/Out	Headset	Audio In/Out	1.8	Non-Shield
3		Alarm In/Out	JIG	Alarm In/Out	3.0	Non-Shield
4		Micro SD Card	Micro SD Card (EUT)	Micro SD Card	Direct	-
5	Note PC	LAN(RJ-45)	PoE Switch	LAN(RJ-45)	3.0	Non-Shield
6		USB	USB Mouse	USB	1.8	Shield
7		D-SUB	Monitor	D-SUB	1.5	Shield

4.5 Operating conditions

The EUT was configured as normal intended use.

Test mode	Normal operating
1	Check the video image with webview.

* Note: 2 types of powers are available for the product, that are AC/DC adaptor (DC 12 V), PoE switch.

Therefore, tests were performed for 2 different types of powers.

5. Summary of test results

In the above configuration tested, The EUT complied with the requirement of the specification

5.1 Summary of EMI emission test results

FCC Part 15 Subpart B (Class A)

ANSI C63.4 – 2009

Applied	Test items	Test method	Result
☐	Conducted Emission	ANSI C63.4 – 2009	N/A
☒	Radiated Emission	ANSI C63.4 – 2009	Complied

6. Test results

6.1 Radiated Emission

Test specification	FCC Part 15, Section 15.109(g), Class A		
Testing voltage	DC 12 V, PoE		
Test facility	10 m Chamber (#F2)		
Test distance	10 m, 3 m		
Date	2013. 03. 28		
Temperature (°C)	24 °C	Humidity (% R.H.)	30 % R.H.
Remarks	Complied		

6.1.1 Limits of radiated emission measurement

Frequency [MHz]	Class A (dB(μ V/m)) @ 10 m	Class B (dB(μ V/m)) @ 3 m
30-88	39	40
88-216	43.5	43.5
216-960	46.4	46
Above 960	49.5	54

* Note- Alternative standard: CISPR, Pub. 22 *

6.1.2 Measurement procedure

The test was done at a 10 m chamber with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane.

Cables connected to EUT were fixed to cause maximum emission. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

6.1.3 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
Test Receiver	ESCI7	100732	R&S	2014.02.18	☒
Bi-Log Antenna	VULB 9168	9168-440	SCHWARZBECK	2013.10.04	☒
Amplifier	310N	293004	SONOMA INSTRUMENT	2013.11.06	☒
3 dB Attenuator	8491A	27444	HP	2013.11.06	☒
Antenna Mast	MA4000-EP	303	Innco Systems	-	☒
Turn Table	DT2000S-1t	079	Innco Systems	-	☒
Horn ANT	3115	00086706	ETS	2013.11.21	☒
Amplifier	8449B	3008A02343	AGILENT	2013.11.06	☒
Spectrum Analyzer	FSP7	100289	R&S	2013.12.14	☐

6.1.4 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

$$\text{Result} = \text{M.R} + \text{C.F}(\text{A.F} + \text{C.L} + 3 \text{ dB Att} - \text{A.G})$$

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G= Amplifier Gain

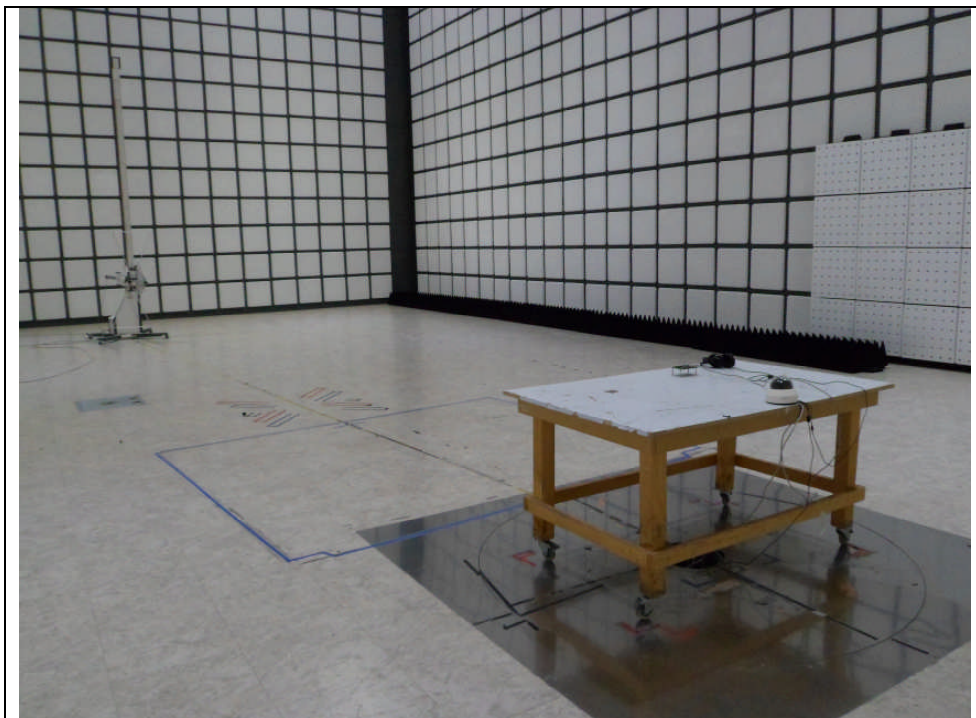
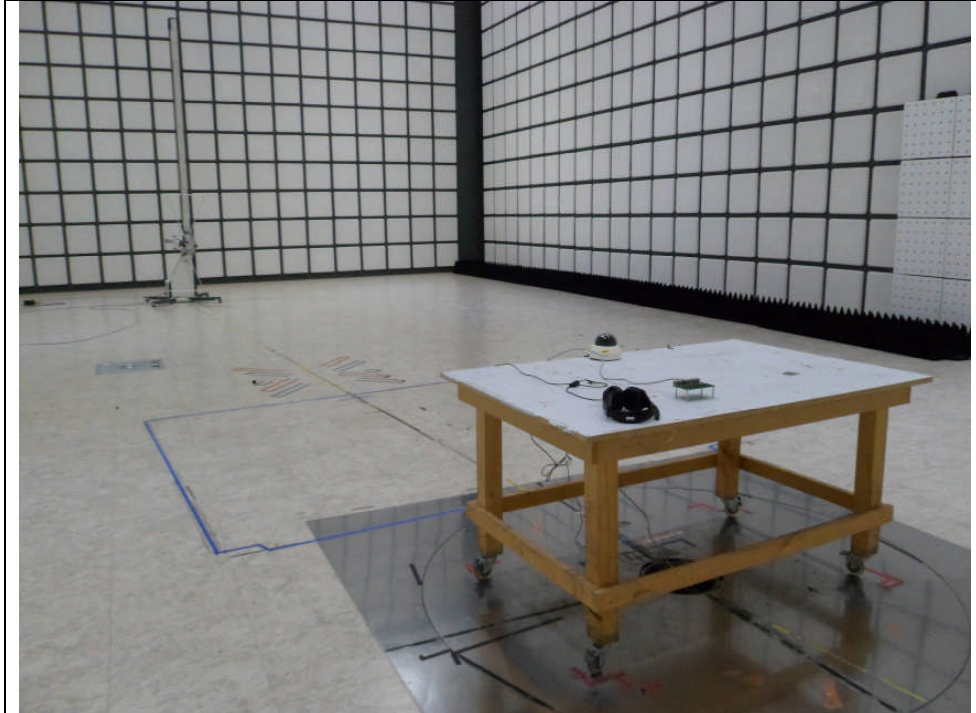
3 dB Att = 3 dB Attenuator

If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 3 dB, A.G 35 dB

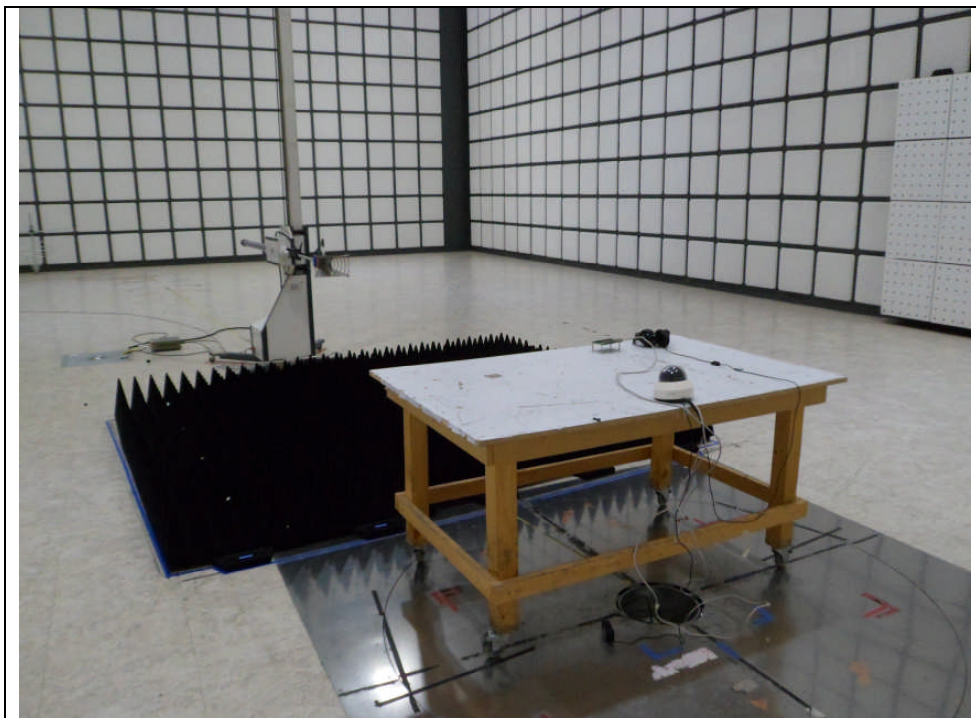
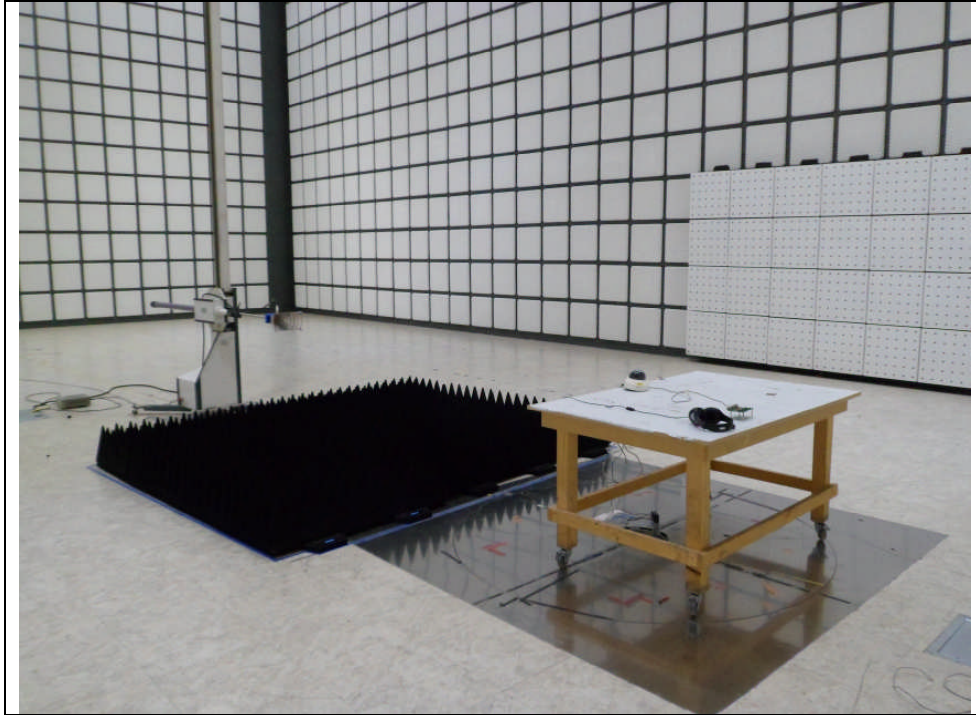
The result is $30 + 12 + 5 + 3 - 35 = 15 \text{ dB}(\mu\text{V/m})$

6.1.5 Photographs of test setup

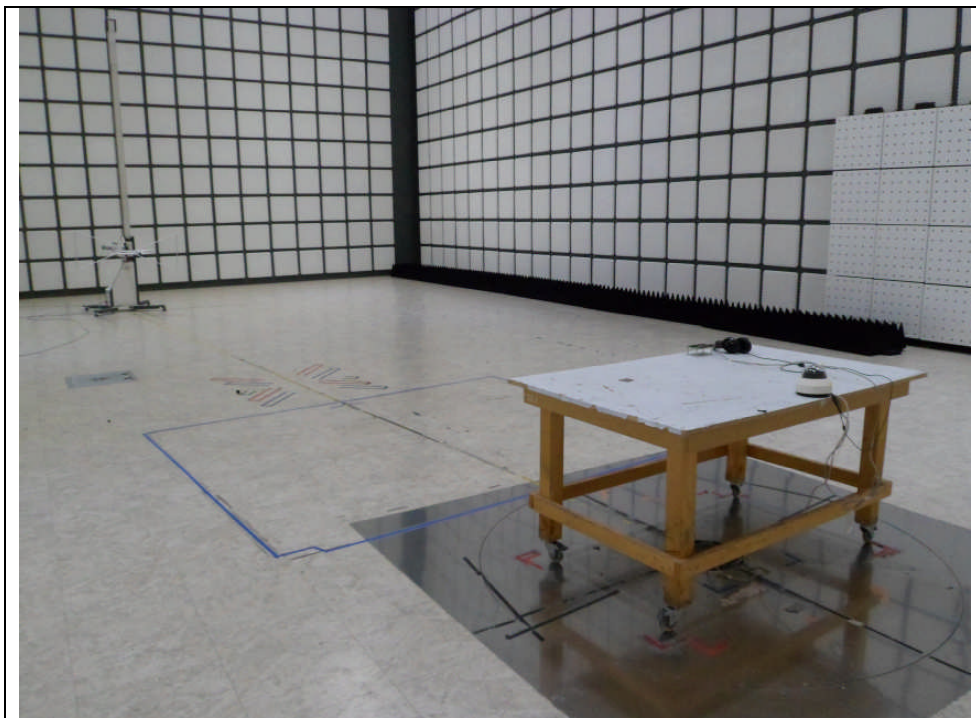
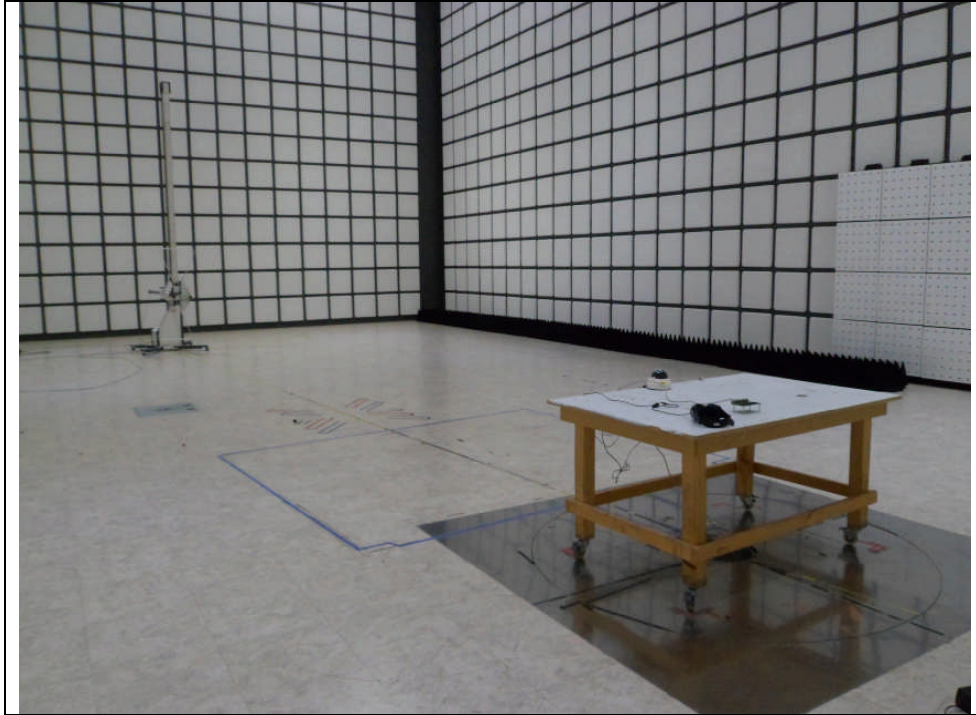
* 30 MHz ~ 1 GHz (DC 12 V)



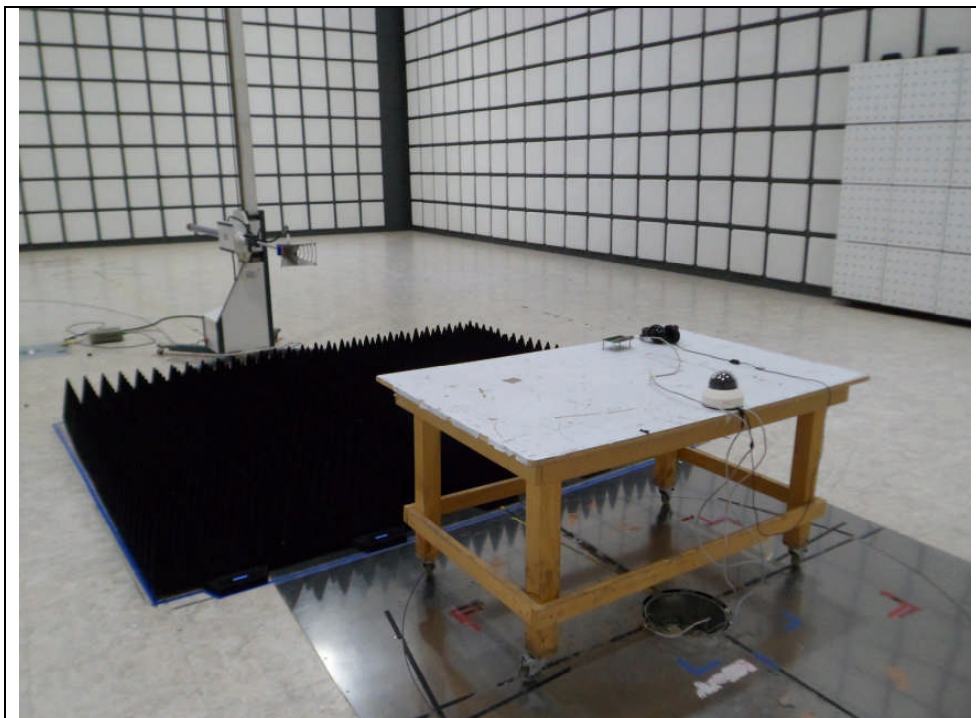
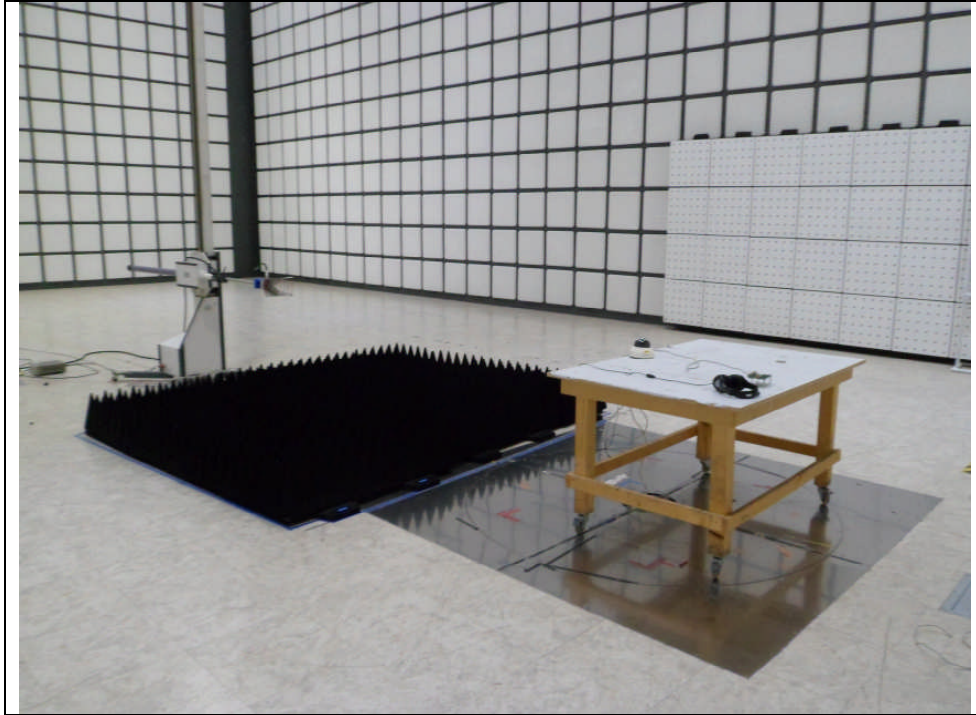
* 1 GHz ~ 6 GHz (DC 12 V)



* 30 MHz ~ 1 GHz (PoE)



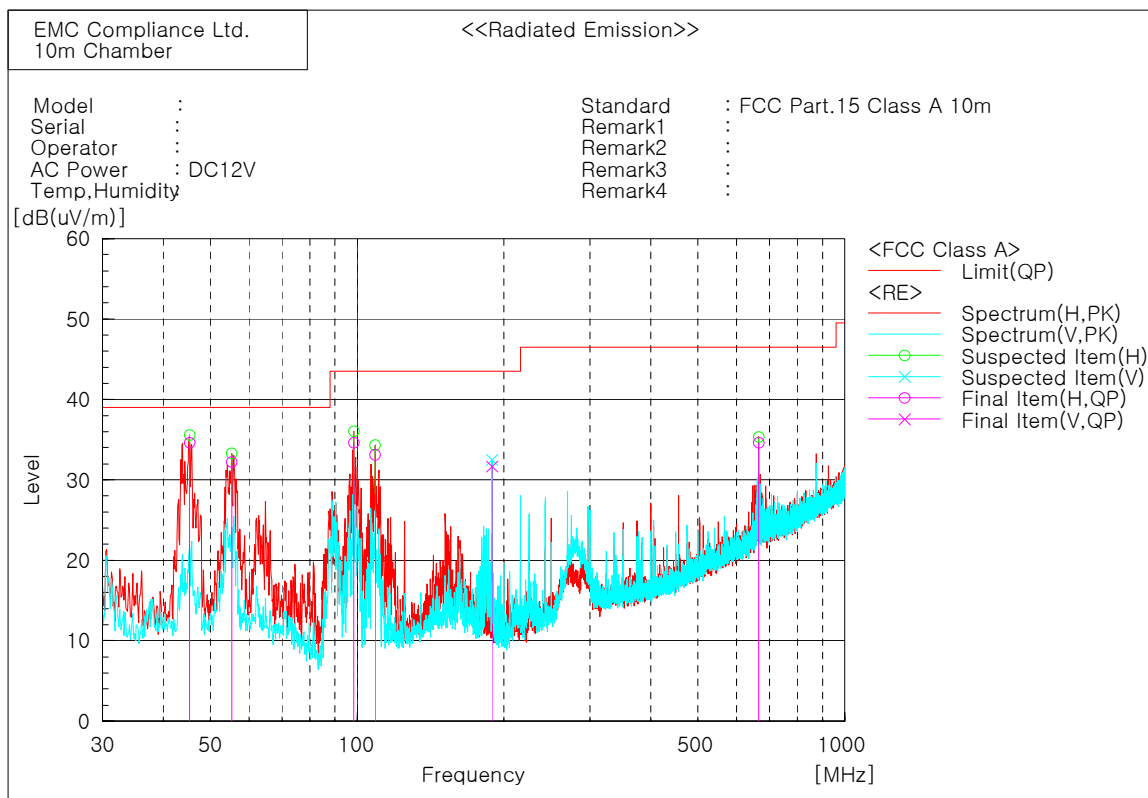
* 1 GHz ~ 6 GHz (PoE)



6.1.6 Radiated emission measurement result

* Graph and Data

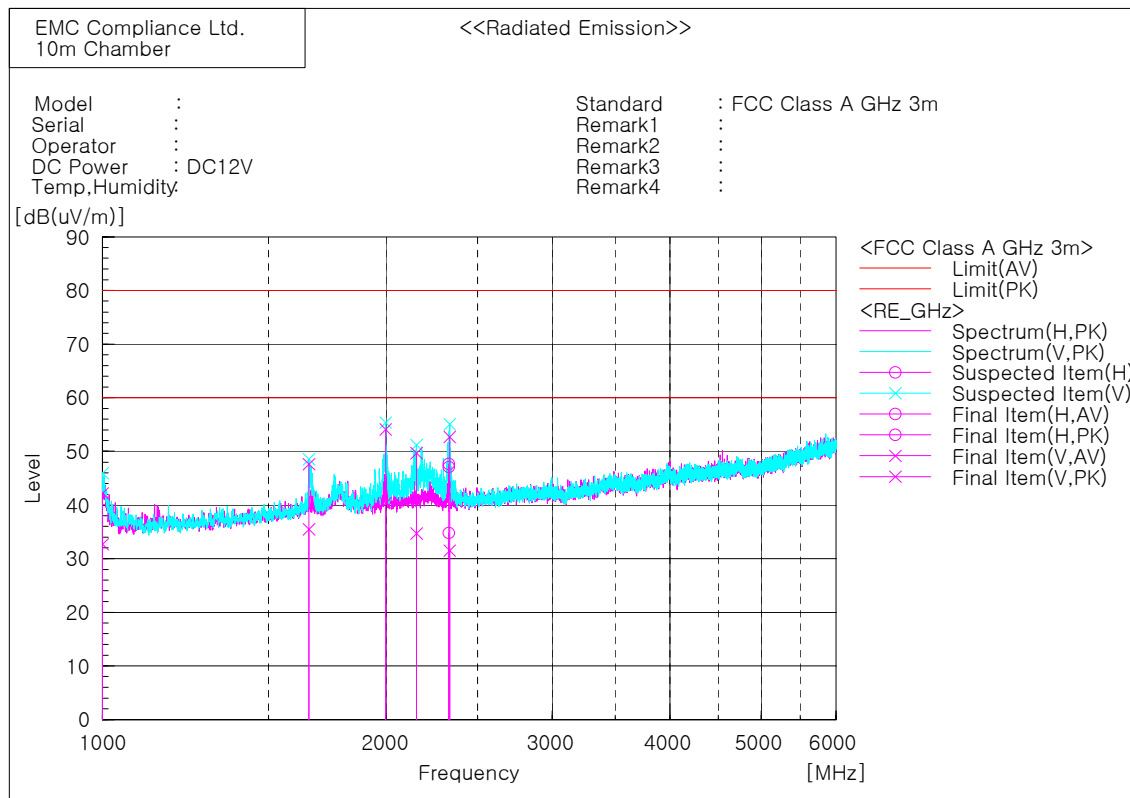
* 30 MHz ~ 1 GHz (SND-6084RN)_DC 12V



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]
1	45.278	H	48.7	-14.1	34.6	39.0	4.4	200.0	71.6
2	55.220	H	46.2	-14.0	32.2	39.0	6.8	200.0	200.8
3	98.385	H	53.1	-18.5	34.6	43.5	8.9	200.0	142.3
4	108.813	H	50.2	-17.1	33.1	43.5	10.4	200.0	152.8
5	188.959	V	47.2	-15.5	31.7	43.5	11.8	400.0	255.6
6	666.078	H	37.7	-3.1	34.6	46.5	11.9	200.0	103.2

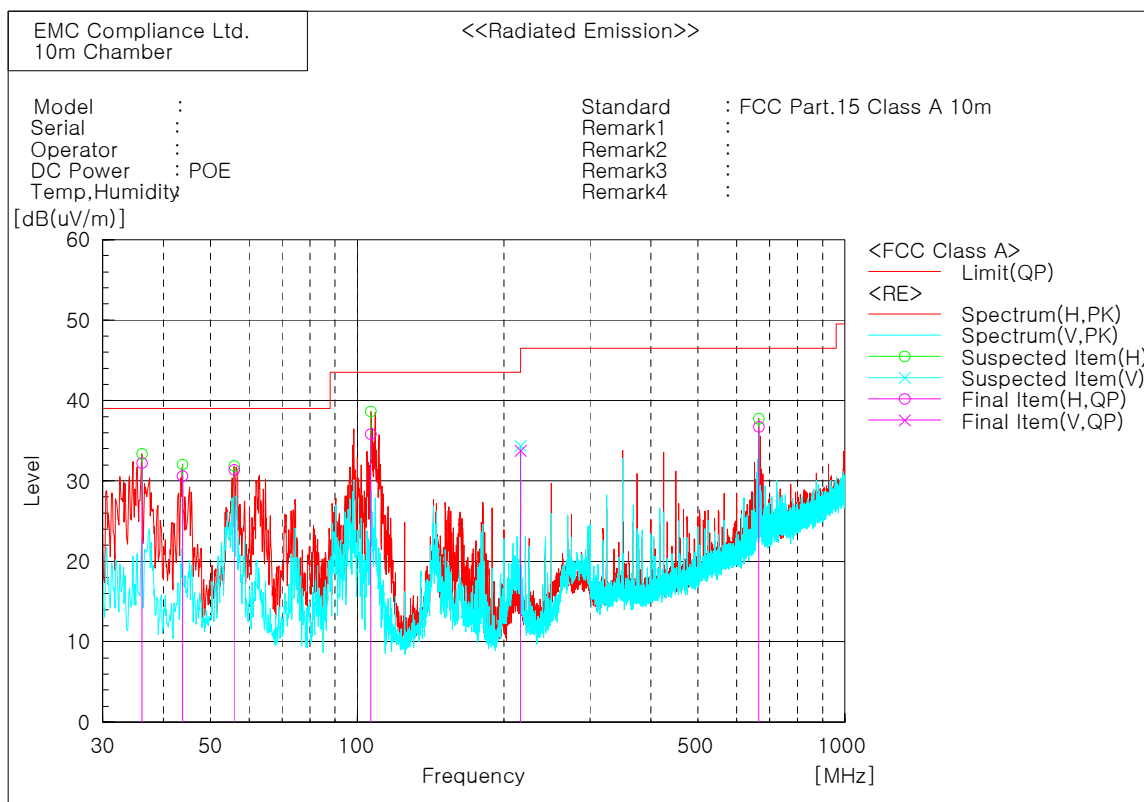
* 1 GHz ~ 6 GHz (SND-6084RN)_DC 12V



Final Result

No.	Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	c.f [dB(1/m)]	Result AV [dB(uV/m)]	Result PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]
1	1000.625	V	41.9	51.4	-9.2	32.7	42.2	60.0	80.0	27.3	37.8	100.0	124.3
2	1656.250	V	39.5	51.6	-4.0	35.5	47.6	60.0	80.0	24.5	32.4	100.0	21.7
3	1996.875	V	42.7	56.4	-2.3	40.4	54.1	60.0	80.0	19.6	25.9	100.0	163.2
4	2153.750	V	36.4	51.4	-1.7	34.7	49.7	60.0	80.0	25.3	30.3	100.0	58.3
5	2330.625	H	36.2	48.5	-1.4	34.8	47.1	60.0	80.0	25.2	32.9	100.0	215.3
6	2335.000	V	32.9	54.1	-1.4	31.5	52.7	60.0	80.0	28.5	27.3	100.0	52.4

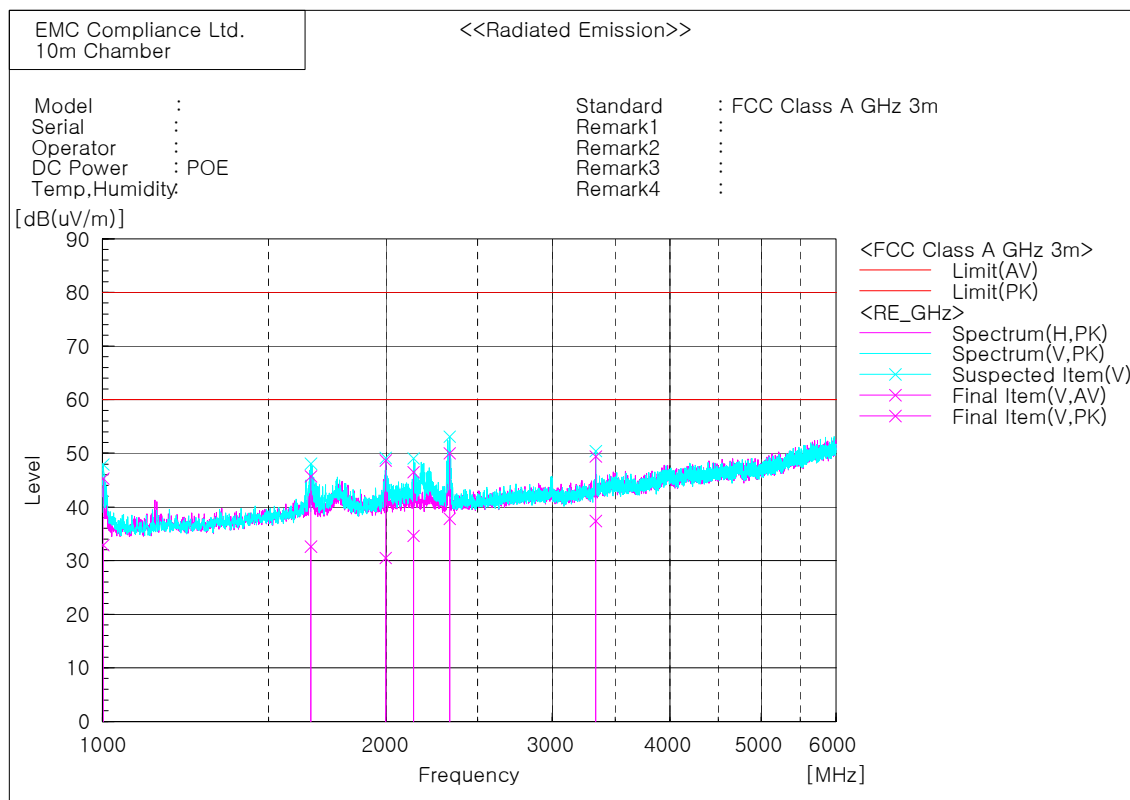
* 30 MHz ~ 1 GHz (SND-6084RN)_PoE



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]
1	36.184	H	47.3	-15.1	32.2	39.0	6.8	201.0	337.7
2	43.823	H	44.7	-14.1	30.6	39.0	8.4	400.0	105.3
3	55.948	H	45.4	-14.0	31.4	39.0	7.6	201.0	96.1
4	106.630	H	53.2	-17.4	35.8	43.5	7.7	400.0	353.3
5	215.998	V	49.4	-15.6	33.8	43.5	9.7	400.0	314.0
6	666.199	H	39.8	-3.1	36.7	46.5	9.8	201.0	126.1

* 1 GHz ~ 6 GHz (SND-6084RN)_PoE



Final Result

No.	Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	c.f [dB(1/m)]	Result AV [dB(uV/m)]	Result PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]
1	1001.875	V	42.1	54.5	-9.2	32.9	45.3	60.0	80.0	27.1	34.7	100.0	233.6
2	1664.375	V	36.5	49.6	-3.9	32.6	45.7	60.0	80.0	27.4	34.3	100.0	72.9
3	1996.875	V	32.8	51.0	-2.3	30.5	48.7	60.0	80.0	29.5	31.3	100.0	14.5
4	2137.500	V	36.3	48.2	-1.7	34.6	46.5	60.0	80.0	25.4	33.5	100.0	49.0
5	2335.625	V	39.2	51.4	-1.4	37.8	50.0	60.0	80.0	22.2	30.0	100.0	49.0
6	3335.625	V	36.2	48.2	1.2	37.4	49.4	60.0	80.0	22.6	30.6	100.0	46.0

7. E.U.T. photographs

Front View



Rear View



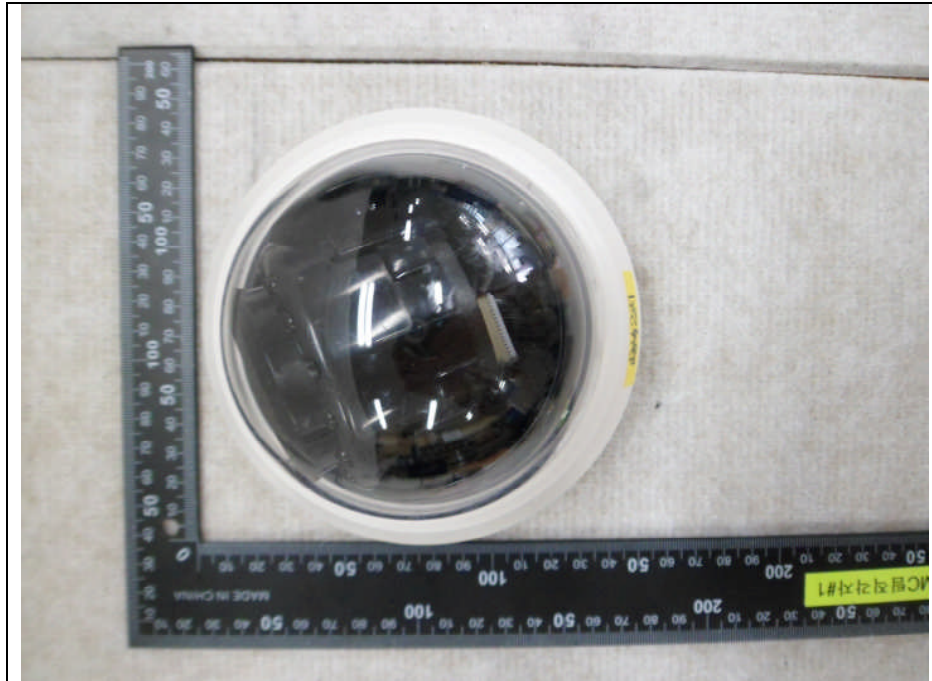
Left View



Right View



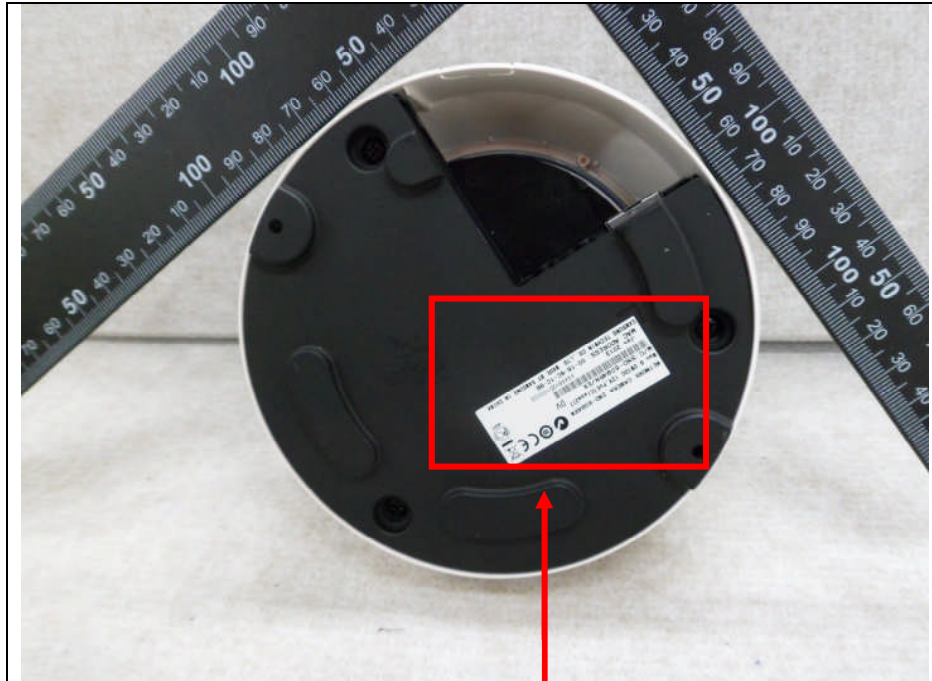
Top View



Bottom View



Label



FCC Label Location

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.

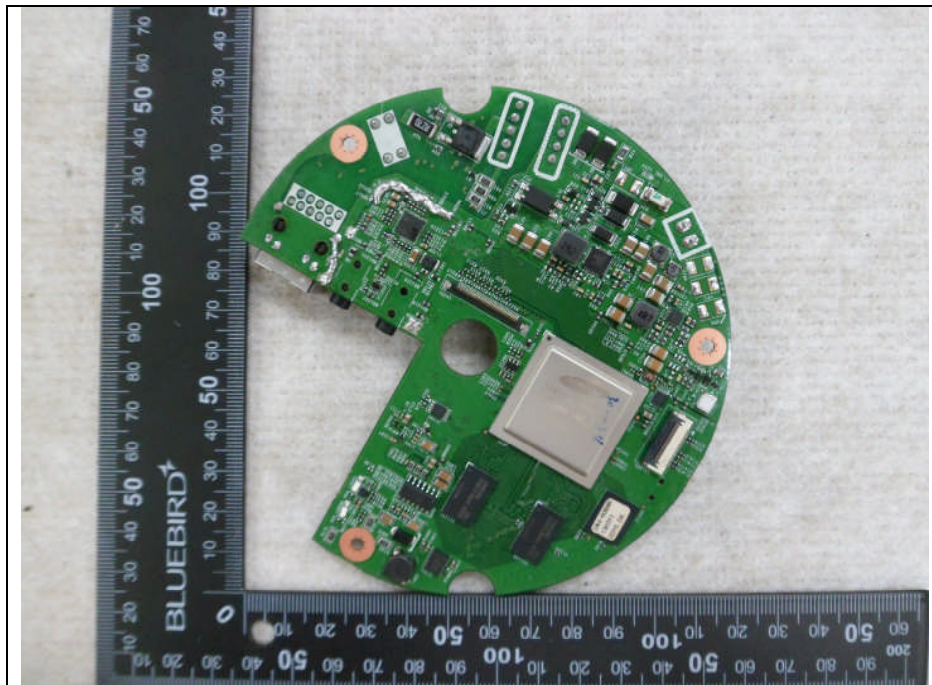
Port



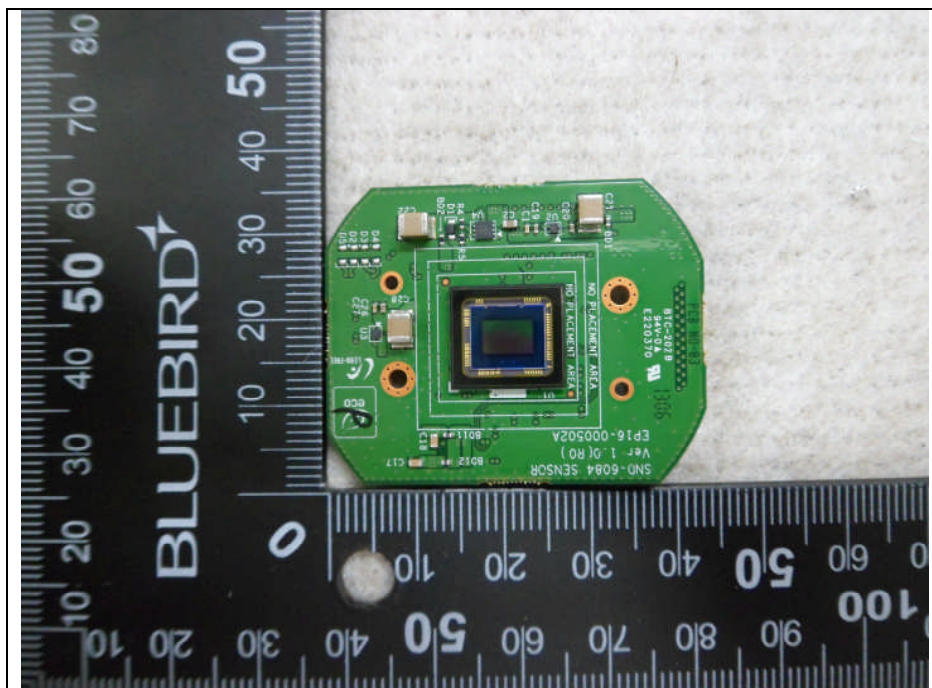
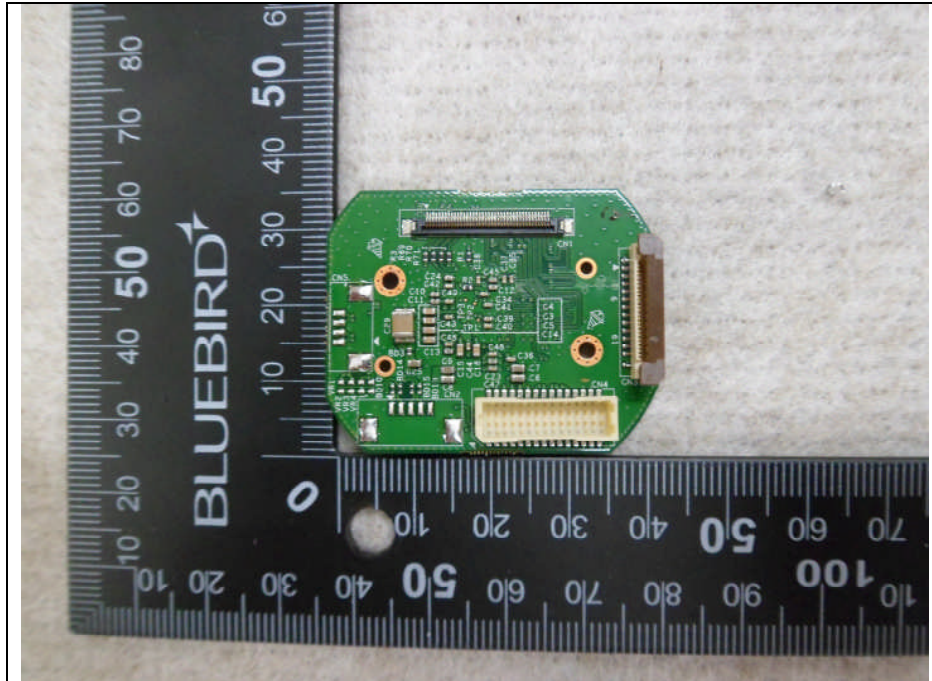
Inside



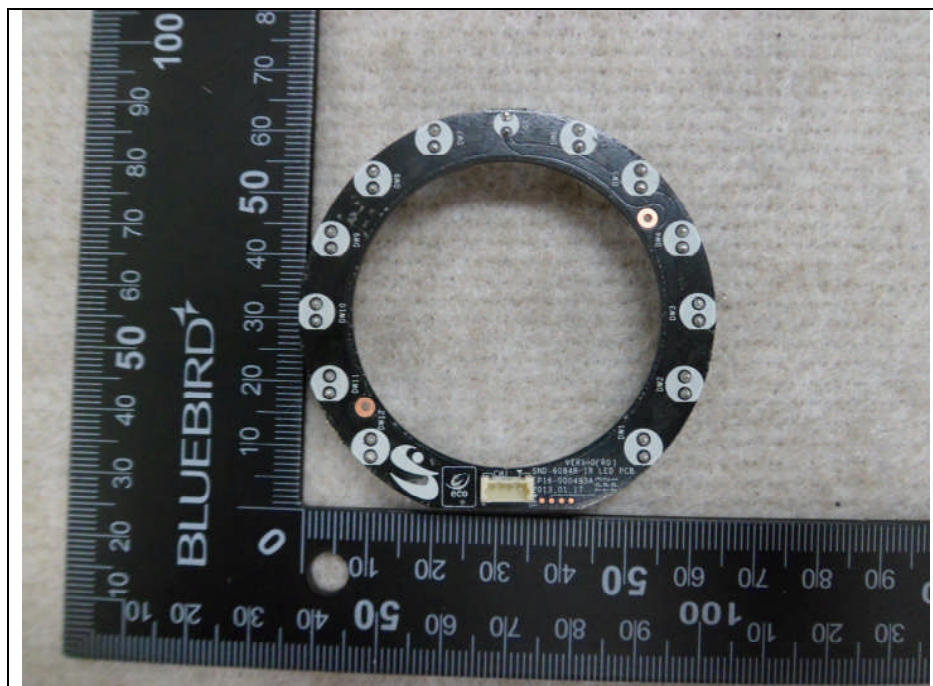
Main Board



CCD Board



IR Board



Micro SD Card

