CERTIFICATE of EMC Compliance

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of EMC Compliance

Report No	:	**EMC-FCC-1999**
Type of equipment	:	**Network Camera**
Model Name	:	**SNP-6201HN**
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.

Yeom, Han-Seok/ Manager

Laboratory

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

Tel: 82 31 336 9919
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EMI TEST REPORT

Test report No	:	**EMC-FCC-1999**
Type of Equipment	:	**Network Camera**
Model Name	:	**SNP-6201HN**
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**

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. 07. 03

Date of testing: 2013. 07. 23

Issued date: 2013. 07. 29

Tested by: JUNG, YOUNG-JUN

Approved by: YEOM, HAN-SEOK

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1. Applicant information

Applicant:	SAMSUNG TECHWIN CO., LTD.
Address:	#42 Seongju-Dong, Changwon-Shi,
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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

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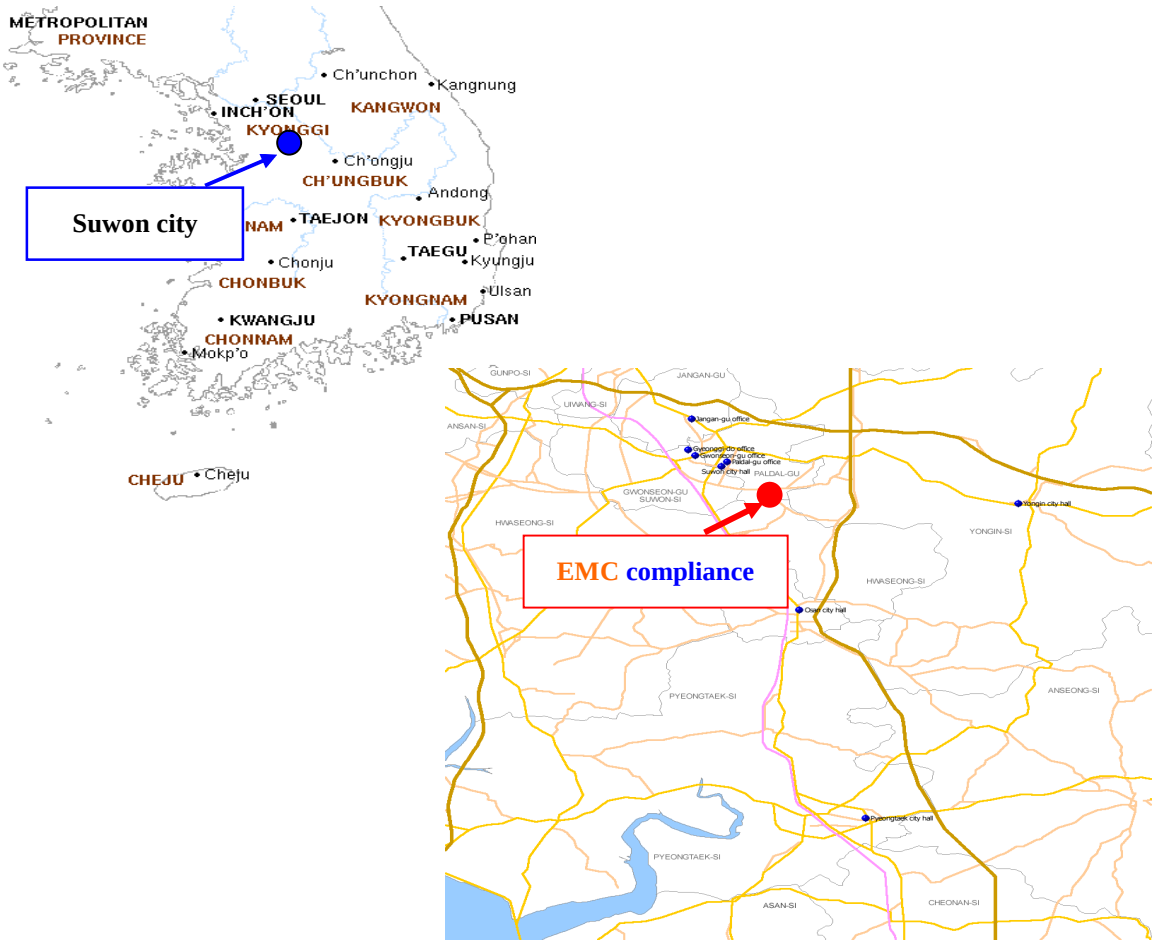
2. Laboratory information

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



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3. Test system configuration

3.1 Operation environment

		Temperature	Humidity	Pressure
Chamber(10 m)	:	24 °C	43 % R.H.	-

Test site

These testing items were performed following locations;

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

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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

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4. Description of E.U.T.

4.1 General information

	SNP-6201N/HN	SNP-6201P/HP
Video		
Imaging Device	1/3-type PS CMOS (Panasonic MN34041)	
Total Pixels	2,010(H) x 1,108(V), 2.2M Pixels	
Effective Pixels	1,944(H) x 1,092(V), 2.1M Pixels	
Scanning System	Progressive Scan	
Min. Illumination	SNP-6201 : Color 1.5 Lux @ F1.6 (50IRE) B/W 0.1 Lux @ F1.6 (50IRE) SNP-6201H :Color 1.5 Lux @ F1.6 (50IRE) B/W 0.1 Lux @ F1.6 (50IRE)	
S / N Ratio	50dB	
Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 704x480(N), 704x576(P), for installation	
Lens		
Focal Length (Zoom Ratio)	4.45 ~ 89mm (20X)	
Max. Aperture Ratio	F1.6(Wide) / F2.9(Tele)	
Angular Field of View	H : 63˚(Wide) ~ 3.49˚(Tele) / V : 37˚(Wide) ~ 1.99˚(Tele)	
Min. Object Distance	**INDOOR**	**OUTDOOR**
	1m (3.28ft)	1m (3.28ft)
Focus Control	AF / One-Shot AF / Manual	
Lens Type	DC Auto Iris	
Mount Type	Board-in type	
Pan / Tilt / Rotate		
Pan Range	360˚ Endless	
Pan Speed	Preset : 500˚/sec, Manual : 0.024˚/sec ~120˚/sec	
Tilt Range	210˚(-15˚ ~195˚)	
Tilt Speed	Preset : 500˚/sec, Manual : 0.024˚/sec ~120˚/sec	
Rotate Range	-	
Preset	255ea	
Preset Accuracy	±0.2˚	
Auto Tracking	N/A	

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Operational		
Camera Title	Off / On (Displayed up to 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / WDR / HLC	
Wide Dynamic Range	128X (60dB)	
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)	
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter) (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Yes (4EA)	
Privacy Masking	Off / On (12 Rectangle zones)	
Sens-up (Frame Integration)	Off / Auto (2X ~ 60X)	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	AWC, Manual, Indoor, Outdoor, ATW (2,400°K ~ 10,500°K)	
Electronic Shutter Speed	ESC / FLK / Manual (1/30 ~ 1/33,000)	ESC / FLK / Manual (1/30 ~ 1/33,000)
Digital Zoom	8X	
Flip / Mirror	Off / On	
Intelligent Video Analytics	Tampering(Scene Change), Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Face Detection(5ea)	
Tracking Module	-	
Schedule	-	
Alarm I/O	Input 4ea / Output 2ea	
Remote Control Interface	RS-485/422	
RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Honeywell, AD, Vicon, GE, BOSCH	
Alarm Triggers	Alarm Input, Motion Detection, Intelligent Video Analytics, Network Disconnect	
Alarm events	• File upload via FTP, E-Mail • Notification via E-Mail, TCP and • local storage(SD/SDHC) recording at Network disconnected • External output • PTZ preset	

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Network		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264 (MPEG-4 Part 10/AVC), Motion JPEG	
Resolution	1920x1080P(Full HD),SXGA (1280 x 1024), 1280 x 960, HD (16 : 9, 1280 x 720p), 1024 x 768, SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240)	
Max. Framerate	Max 30fps at all resolutions * When WDR ON, Max. framerate is Max 15fps.	
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	
Streaming Capability	Multiple Streaming (Up to 10 Profiles)	
Audio I/O	Mic(Line)-in Selectable via UI, Line-out (Mono, 1Vrms)	
Audio Compression Format	G.711 u-law, G.726	
Audio Communication	Bi-dierctional (2-Way)	
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	
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at Unicast Mode	
Memory Slot	SD/SDHC Memory Slot	
ONVIF Conformance	Yes(v.2.1)	

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Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Denish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatia, Hungary, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 7.0 or Higher, Firefox Google Chrome, Apple Safari *Apple Safari, Windows Internet Explorer 9.0(32bit)/8.0(32bit)/7.0(32bit) *For Mac OS X, only the Safari browser is supported.
Central Management Software	Smart Viewer
Environmental	
Operating Temperature / Humidity	SNP-6201 : -10°C ~ +55°C (+14°F ~ +131°F) / 20% ~ 80% RH SNP-6201H : AC24V Mode : -50°C ~ +55°C (-58°F ~ +131°F) / ~ 90% RH PoE+ Mode : -30°C ~ +55°C (-22°F ~ +131°F) / ~ 90% RH
Ingress Protection	IP66 (SNP-6201H only)
Vandal Resistance	SNP-6201 only (When SNP-6201 + SHP-3701H : IK10 Accessary Housing)
Electrical	
Input Voltage / Current	24V AC, PoE+ (IEEE802.3at)
Power Consumption	SNP-6201 : 15W(AC24V), 13W(PoE+) SNP-6201H : 15W(AC24/PoE+, Heater Off), 53W(AC24V Heater On), 25W(PoE+ Heater On)
Mechanical	
Color / Material	SNP-6201 : Ivory / Plastic SNP-6201H : Ivory / Aluminum / Plastic Sun-Shield
Dimension (WxHxD)	SNP-6201 : H218 x Ø152 mm SNP-6201H : H293.6 x Ø220 mm
Weight	SNP-6201 : 1.8kg SNP-6201H : 3.2kg

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4.2 Product description

Type of product	Network Camera
Model name (Basic)	SNP-6201HN
Model name (Variant)	-
Difference	-
Trade name	-
Serial no	Engineering Sample
Testing voltage	AC 24 V, PoE
Product rating	AC 24 V, PoE
Internal clock frequency	Above 108 ㎒
Note	* AC/AC 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	2A078516Q	TOSHIBA
USB Mouse	1088	8165900106545	Microsoft
Headset#1	SHS-250V	-	SAMSUNG
Headset#2	SHS-250V	-	SAMSUNG
JIG	-	-	-
AC/AC Adaptor (AC 24V)	STA-220	-	Dream Electronics
PoE Switch	MHPSE-01	-	-

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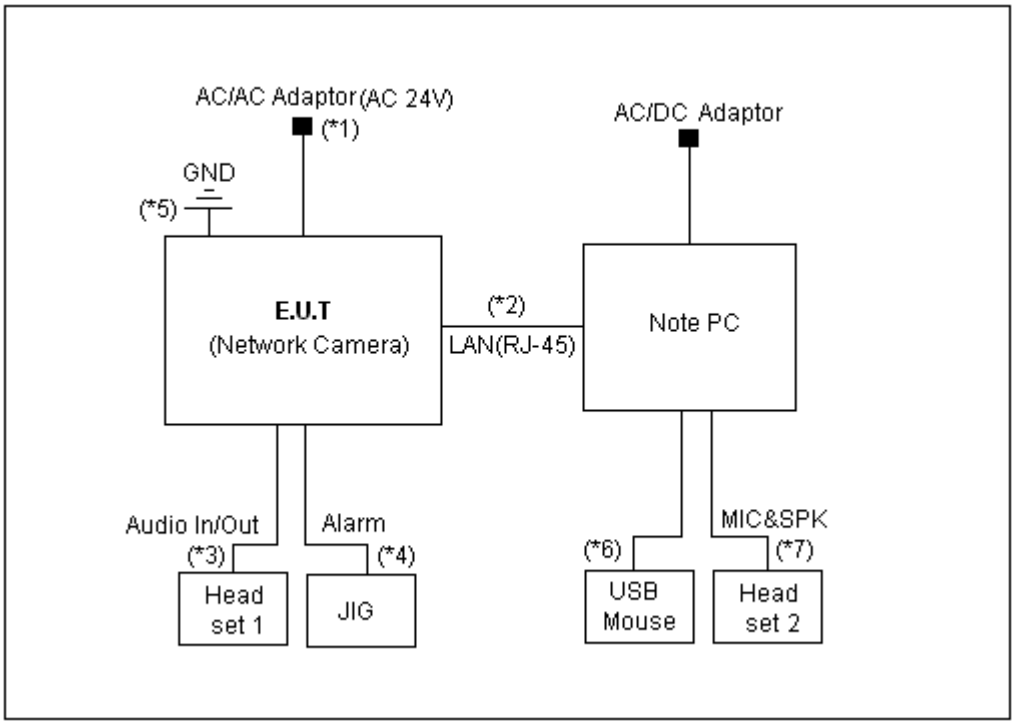
4.4 Test configuration

#1- AC 24V



Note	Start		End		Cable	
*	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	**EUT** (Network Camera)	Power	AC/AC Adaptor	Power	1.4	Non-Shield
2		LAN(RJ-45)	Note PC	LAN(RJ-45)	3.0	Non-Shield
3		Audio In/Out	Headset 1	Audio In/Out	3.0	Non-Shield
4		Alarm	JIG	Alarm	3.0	Non-Shield
5		GND	GND	GND	1.2	-
6	Note PC	USB	USB Mouse	USB	1.8	Shield
7		MIC&SPK	Headset 2	MIC&SPK	2.0	Non-Shield

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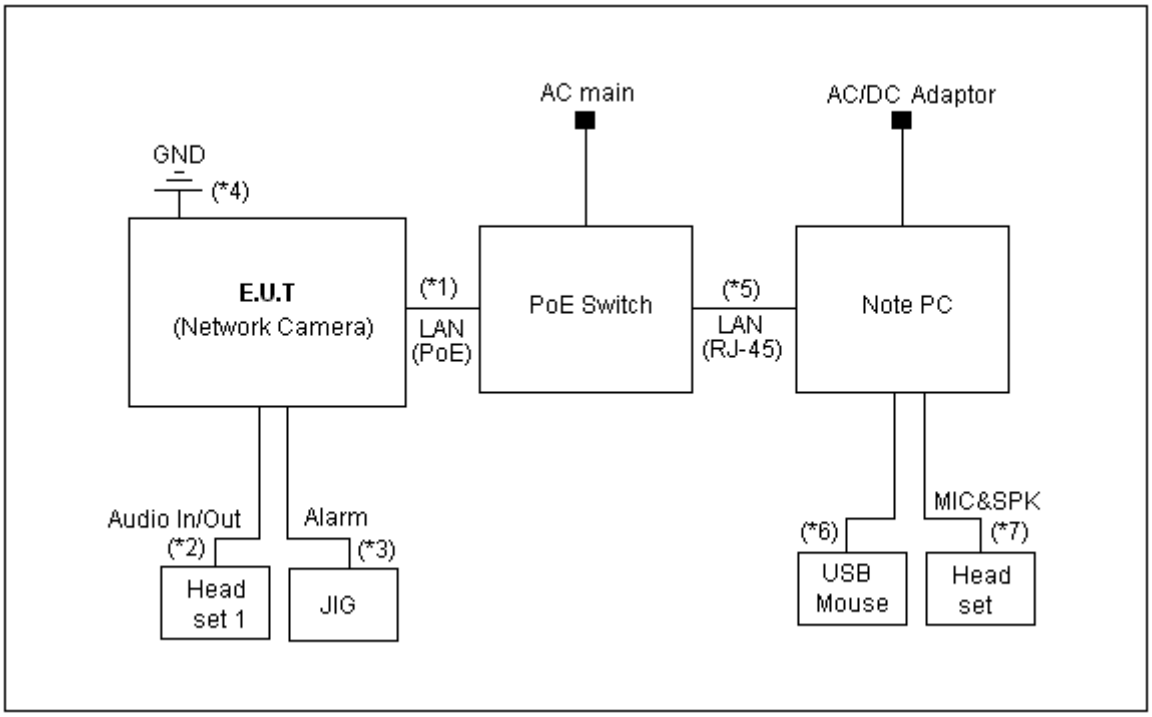
#2- PoE



* 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 1	Audio In/Out	3.0	Non-Shield
3		Alarm	JIG	Alarm	3.0	Non-Shield
4		GND	GND	GND	1.2	-
5	Note PC	LAN(RJ-45)	PoE Switch	LAN(RJ-45)	3.0	Non-Shield
6		USB	USB Mouse	USB	1.8	Shield
7		MIC&SPK	Headset 2	MIC&SPK	2.0	Non-Shield

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4.5 Operating conditions

The EUT was configured as normal intended use.

Test mode	Normal operating
1	Camera monitoring test. (Web viewer)
	Alarm test
	Audio In/Out test.

* Note: 2 types of powers are available for the product, that are AC 24 Ⅴ, PoE.

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

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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

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6. Test results

6.1 Radiated Emission

Test specification	FCC Part 15, Section 15.109(g), Class A		
Testing voltage	AC 24 V, PoE		
Test facility	10 m Chamber (#F2)		
Test distance	10 m, 3 m		
Date	2013. 07. 23		
Temperature (°C)	24 °C	Humidity (% R.H.)	43 % R.H.
Remarks	Complied		

6.1.1 Limits of radiated emission measurement

Frequency [MHz]	Class A (dB(μV/m)) @ 10 m	Class B (dB(μV/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.

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6.1.3 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
Test Receiver	ESCI7	100732	R&S	2014.02.18	☒
Test Receiver	ESCI	100001	R&S	2014.07.25	☐
Test Receiver	ESCI	100710	R&S	2013.11.06	☐
Bi-Log Antenna	VULB 9168	440	SCHWARZBECK	2013.10.04	☒
Amplifier	310N	293004	SONOMA INSTRUMENT	2013.11.06	☒
3 dB Attenuator	8491B	22981	HP	2014.03.19	☒
Antenna Mast	MA4000-EP	303	Innco Systems	-	☒
Turn Table	DT2000S-1t	079	Innco Systems	-	☒
Amplifier	8449B	3008A02343	AGILENT	2013.11.06	☒
Horn ANT	3115	00086706	ETS	2013.11.21	☒
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:

Result = M.R + C.F(A.F + C.L +3 dB Att – 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 dB(μV/m)

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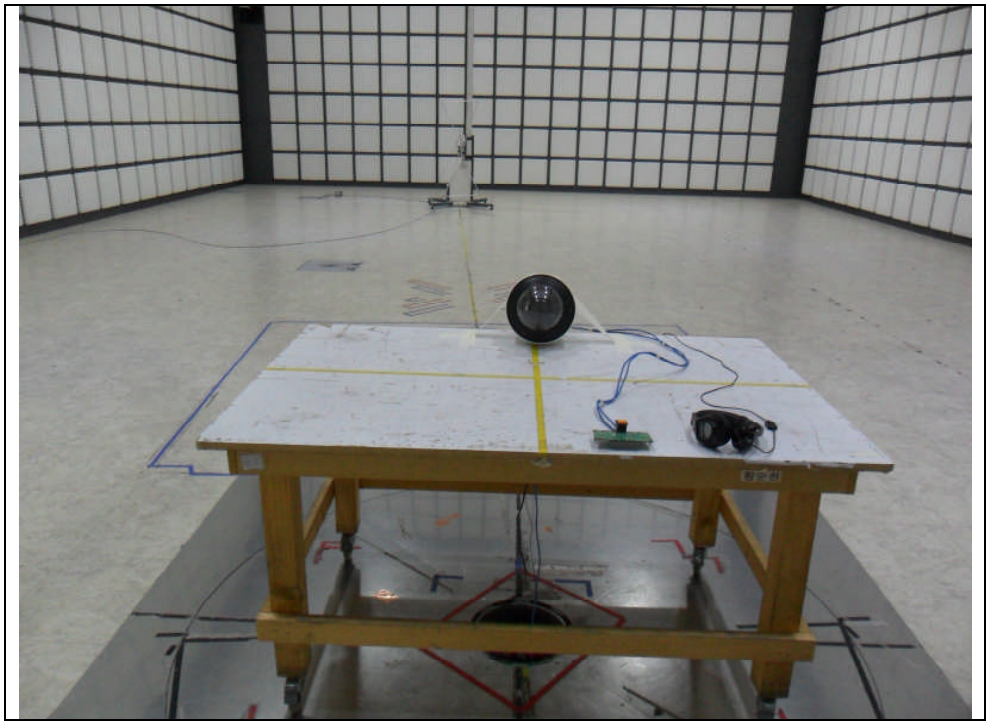
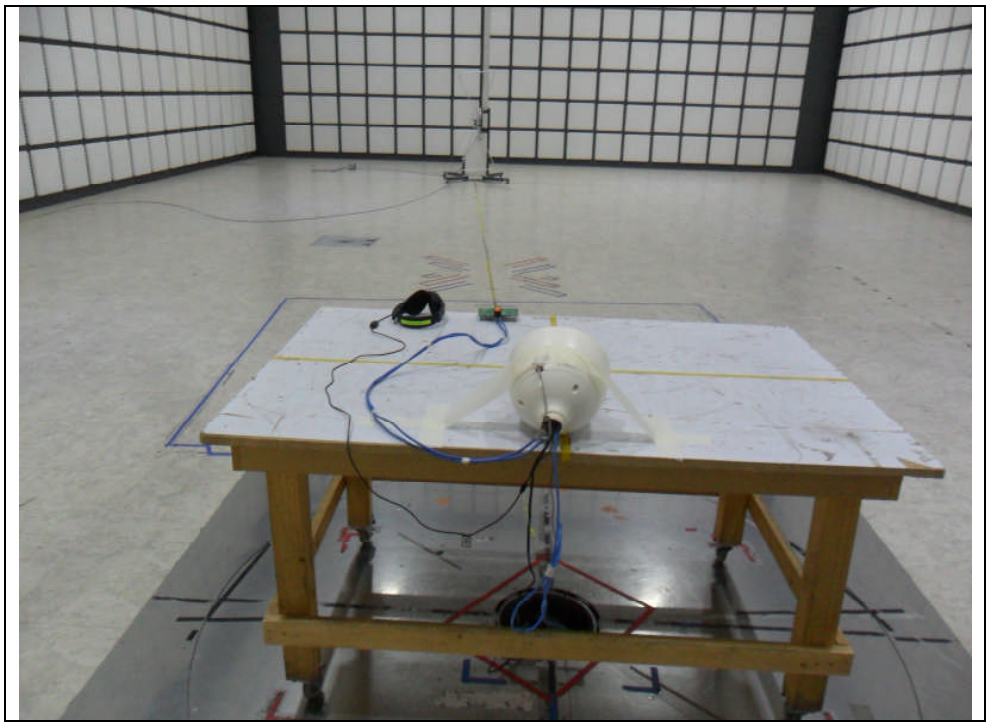
6.1.5 Photographs of test setup

* 30 ㎒ ~ 1 ㎓ (#1- AC 24V)





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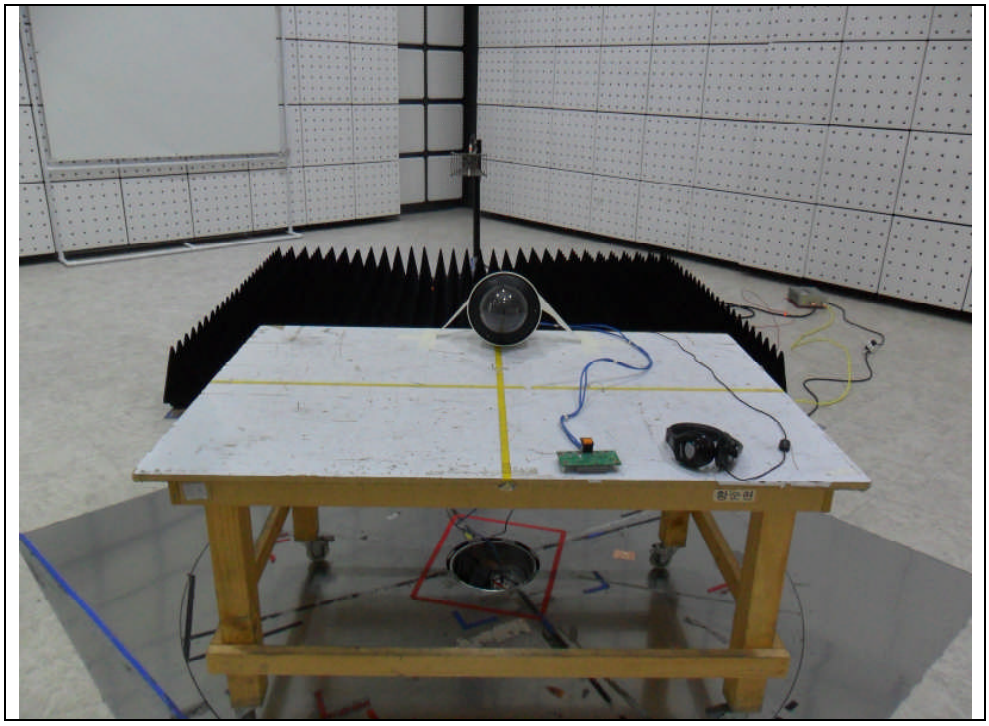
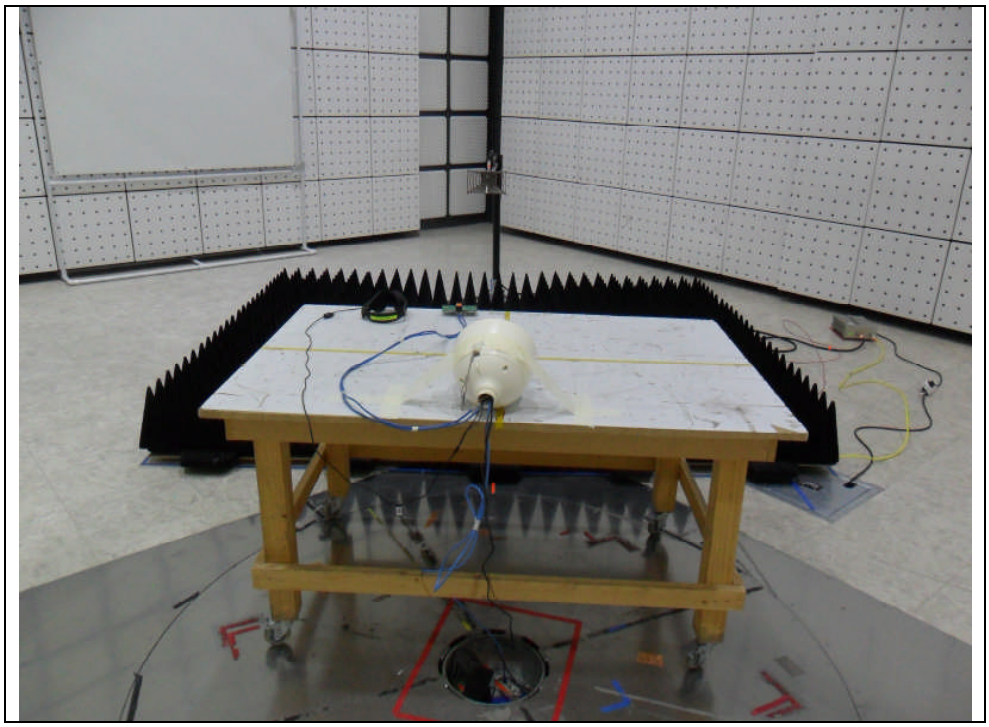
* 1 ㎓ ~ 5 ㎓ (#1- AC 24V)





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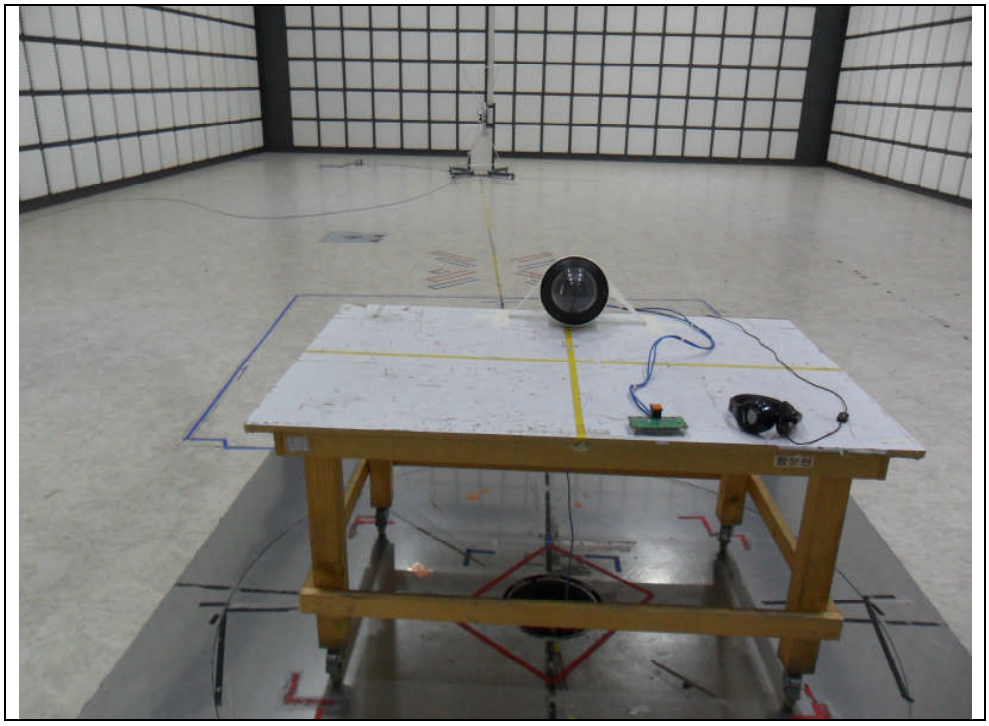
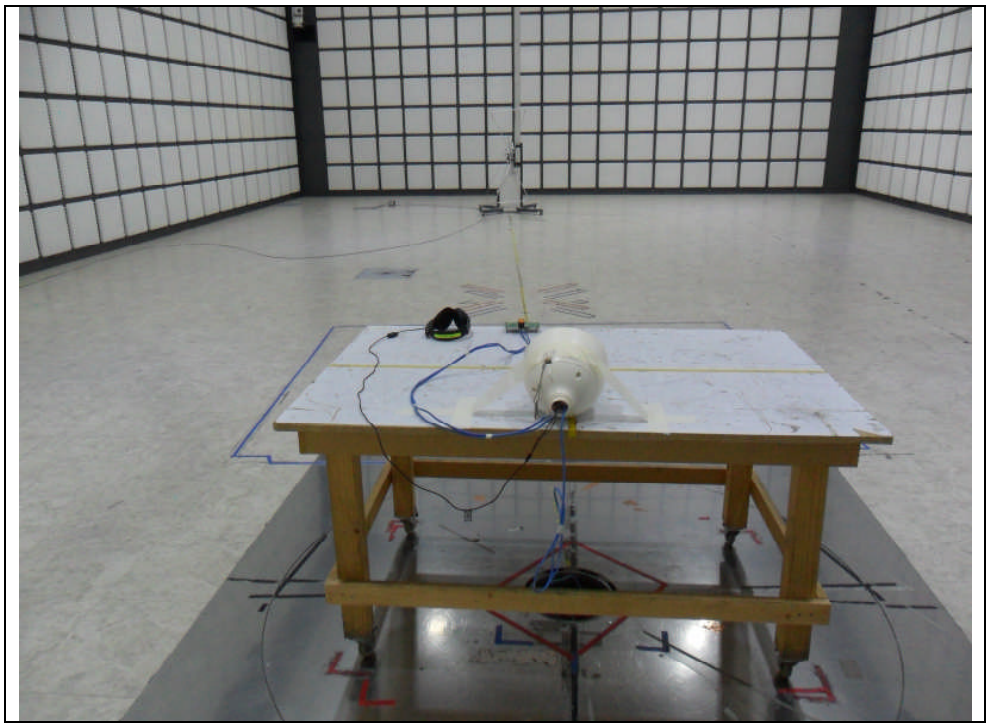
* 30 ㎒ ~ 1 ㎓ (#2-PoE)





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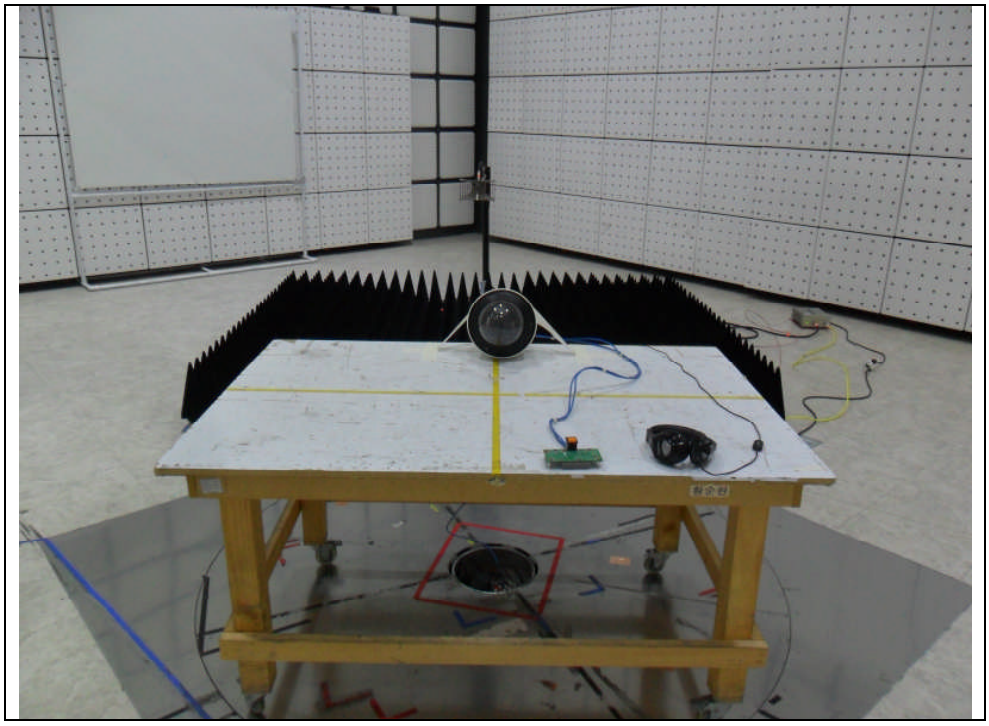
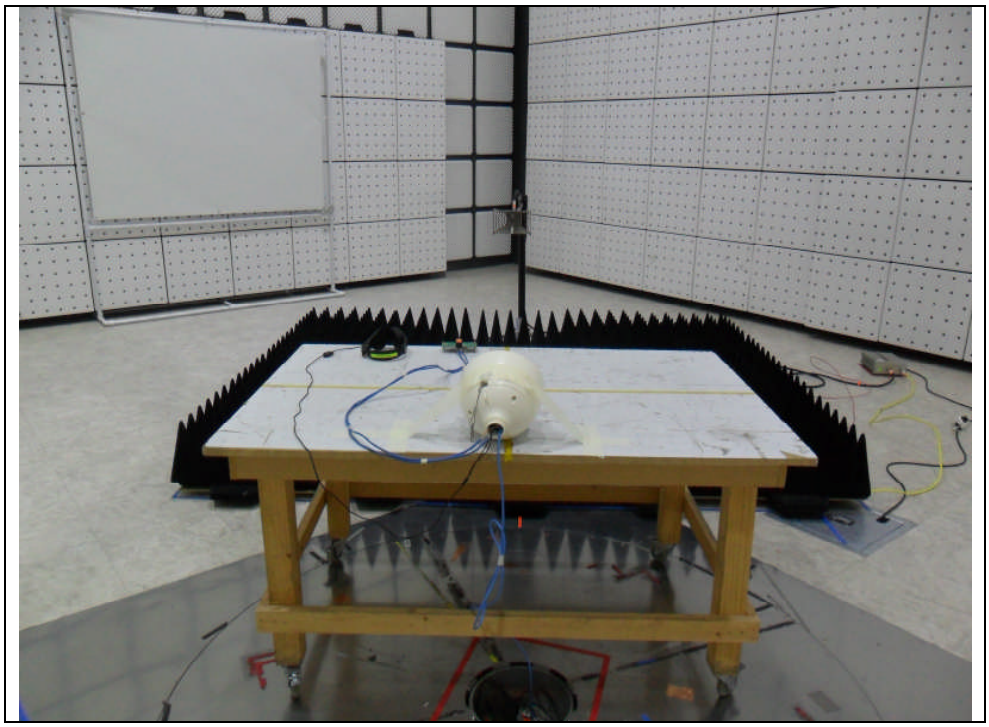
* 1 ㎓ ~ 5 ㎓ (#2-PoE)





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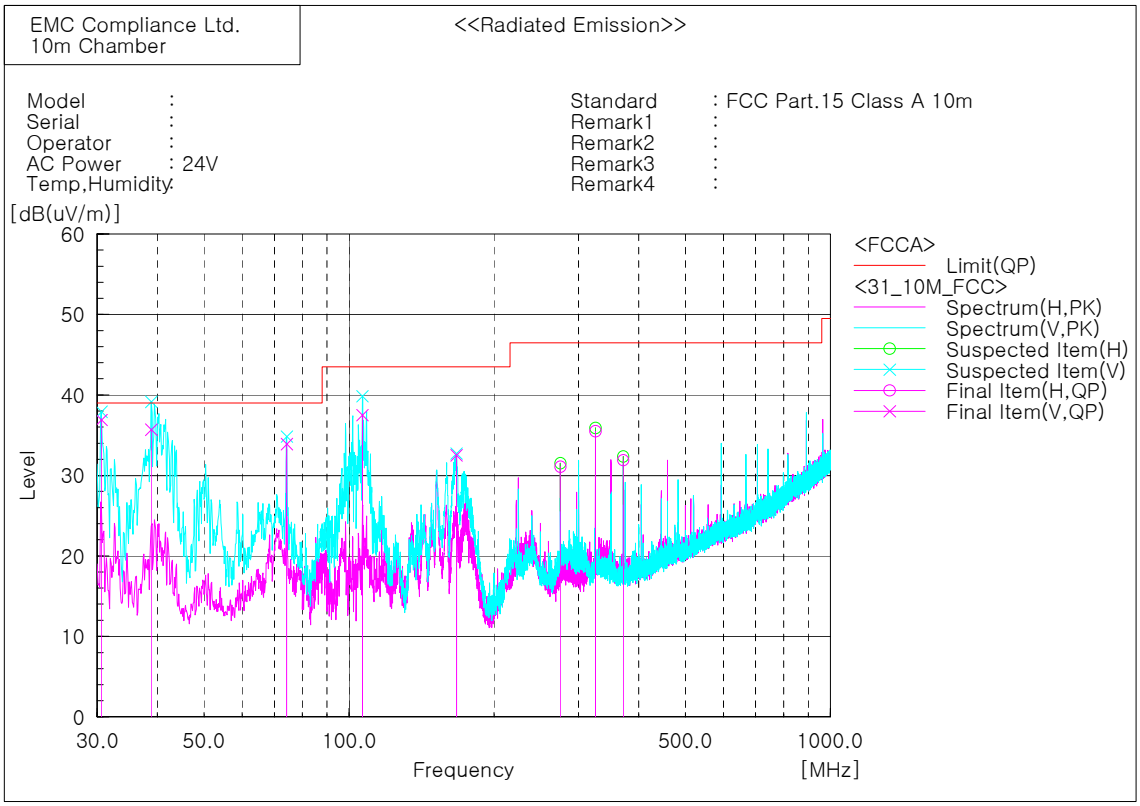
6.1.6 Radiated emission measurement result

*** Graph and Data**

* 30 ㎒ ~ 1 ㎓ (#1- AC 24V) _ SNP-6201HN



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	30.606	V	52.1	-15.2	36.9	39.0	2.1	100.0	8.9
2	38.851	V	50.0	-14.3	35.7	39.0	3.3	298.0	143.2
3	74.256	V	49.5	-15.6	33.9	39.0	5.1	100.0	218.4
4	106.630	V	54.0	-16.5	37.5	43.5	6.0	100.0	168.8
5	167.255	V	44.8	-12.3	32.5	43.5	11.0	100.0	48.5
6	275.046	H	42.4	-11.3	31.1	46.5	15.4	400.0	244.7
7	325.001	H	44.9	-9.4	35.5	46.5	11.0	301.0	353.5
8	371.198	H	40.1	-8.2	31.9	46.5	14.6	201.0	262.1

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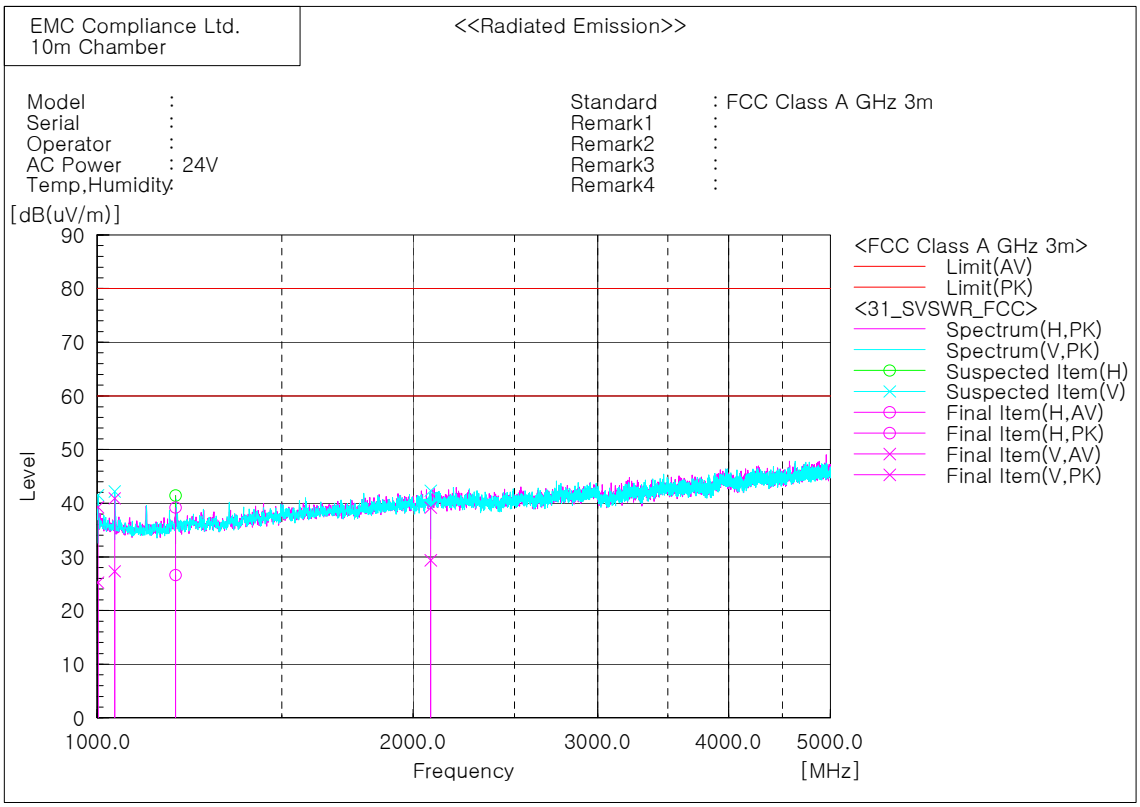
* 1 ㎓ ~ 5 ㎓ (#1- AC 24V)_SNP-6201HN



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	32.5	46.6	-7.3	25.2	39.3	60.0	80.0	34.8	40.7	100.0	135.3
2	1038.750	V	35.1	48.7	-7.8	27.3	40.9	60.0	80.0	32.7	39.1	100.0	85.6
3	1187.500	H	33.7	46.3	-7.1	26.6	39.2	60.0	80.0	33.4	40.8	100.0	317.6
4	2079.375	V	30.4	40.2	-1.0	29.4	39.2	60.0	80.0	30.6	40.8	100.0	267.7

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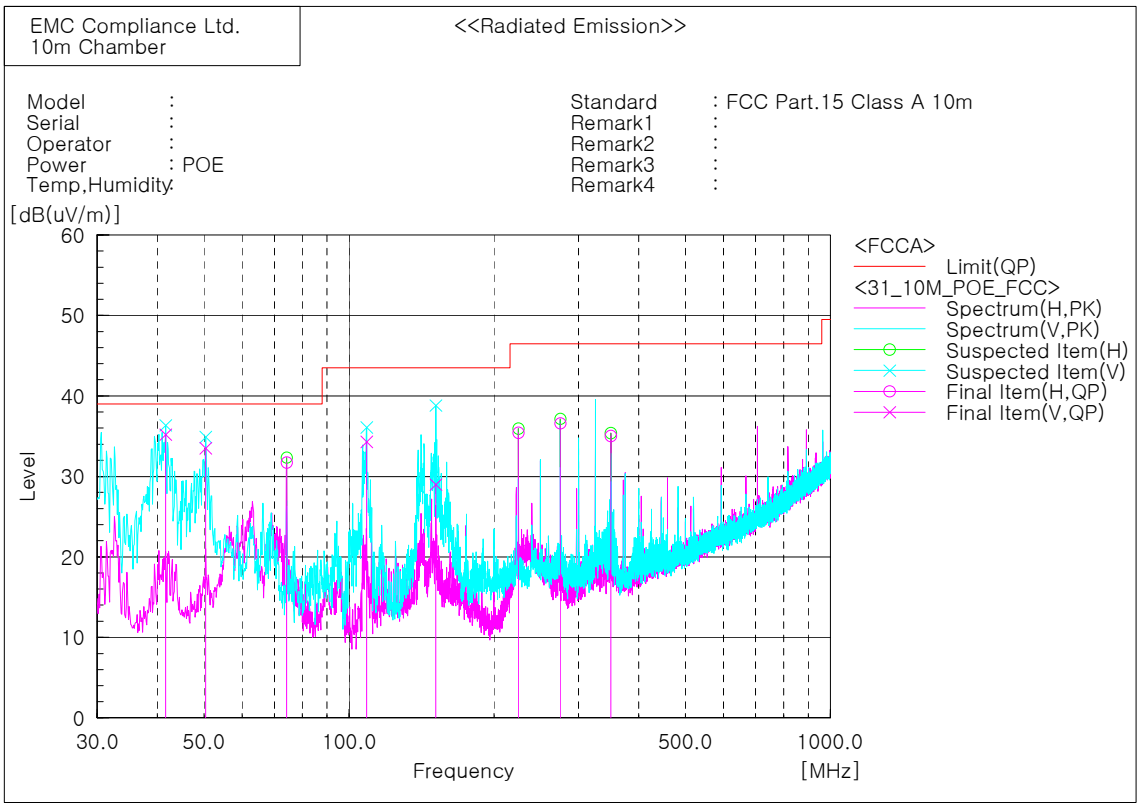
* 30 ㎒ ~ 1 ㎓ (#2- PoE) _ SNP-6201HN



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	41.640	V	49.0	-13.8	35.2	39.0	3.8	100.0	106.4
2	50.370	V	46.8	-13.3	33.5	39.0	5.5	100.0	119.9
3	74.256	H	47.3	-15.6	31.7	39.0	7.3	400.0	231.1
4	108.813	V	50.5	-16.2	34.3	43.5	9.2	100.0	192.0
5	151.614	V	41.4	-12.4	29.0	43.5	14.5	100.0	283.7
6	224.970	H	49.2	-13.8	35.4	46.5	11.1	400.0	285.1
7	275.046	H	47.9	-11.3	36.6	46.5	9.9	400.0	40.5
8	349.979	H	43.8	-8.8	35.0	46.5	11.5	400.0	27.0

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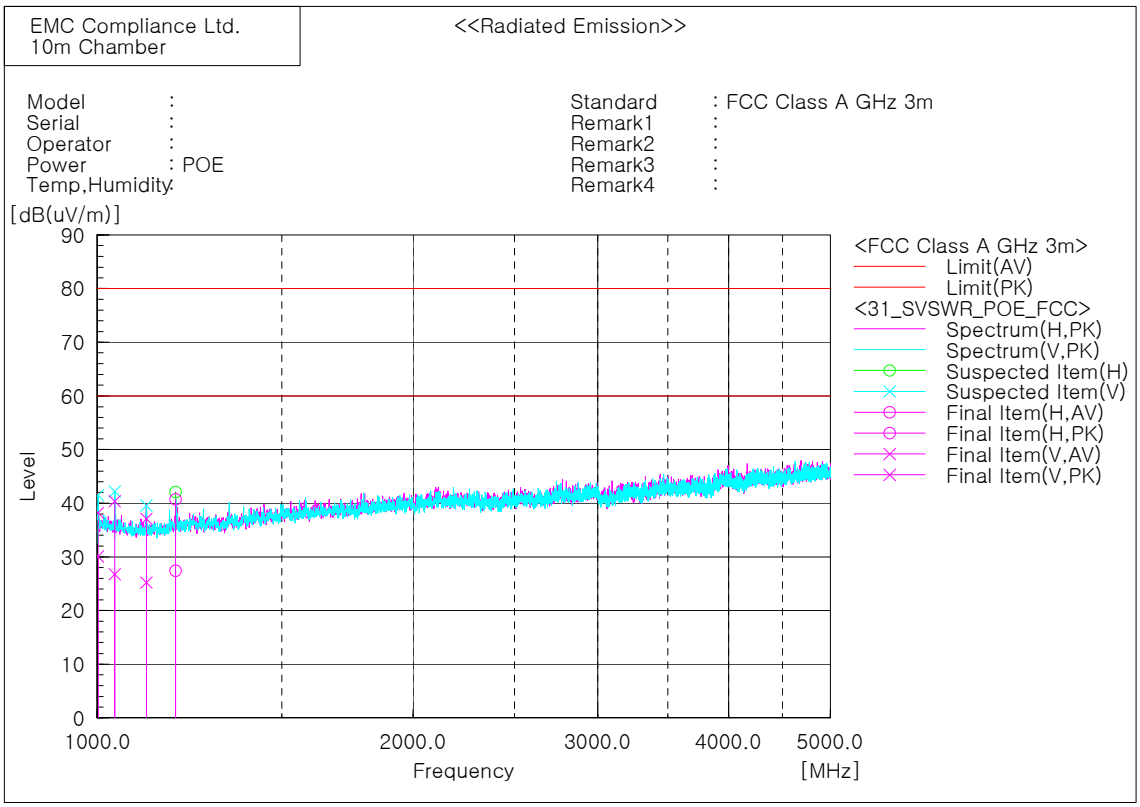
* 1 ㎓ ~ 5 ㎓ (#2- PoE) _ SNP-6201HN



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	37.4	45.5	-7.3	30.1	38.2	60.0	80.0	29.9	41.8	100.0	135.3
2	1038.750	V	34.6	48.2	-7.8	26.8	40.4	60.0	80.0	33.2	39.6	100.0	85.6
3	1113.750	V	33.2	45.1	-8.0	25.2	37.1	60.0	80.0	34.8	42.9	100.0	117.2
4	1188.125	H	34.5	47.8	-7.1	27.4	40.7	60.0	80.0	32.6	39.3	100.0	197.5

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7. E.U.T. photographs

Front View

Rear View

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Left View

Right View

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Top View

Bottom View

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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.

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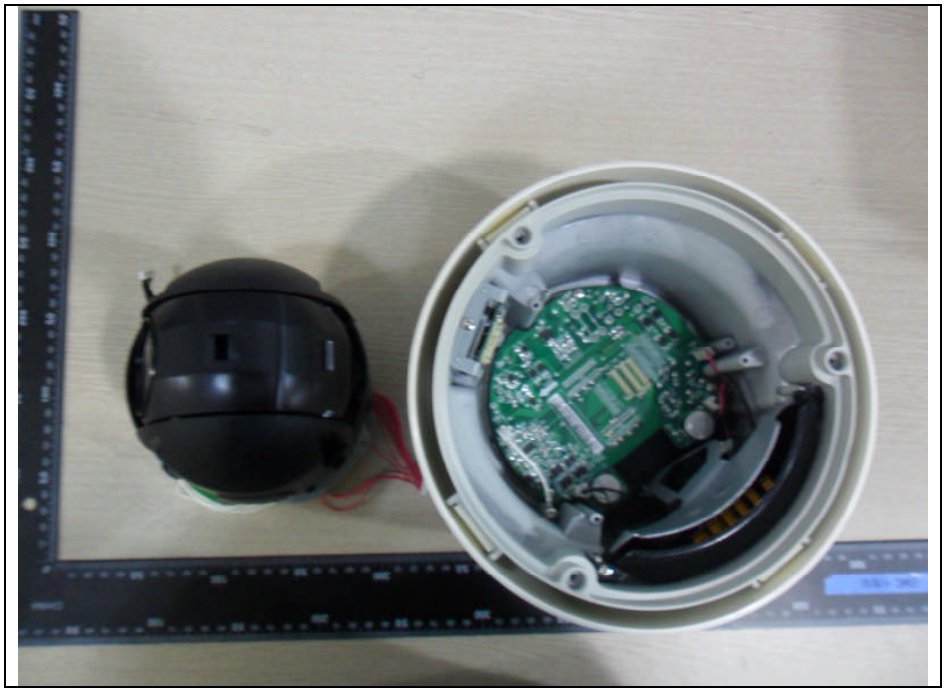
Inside



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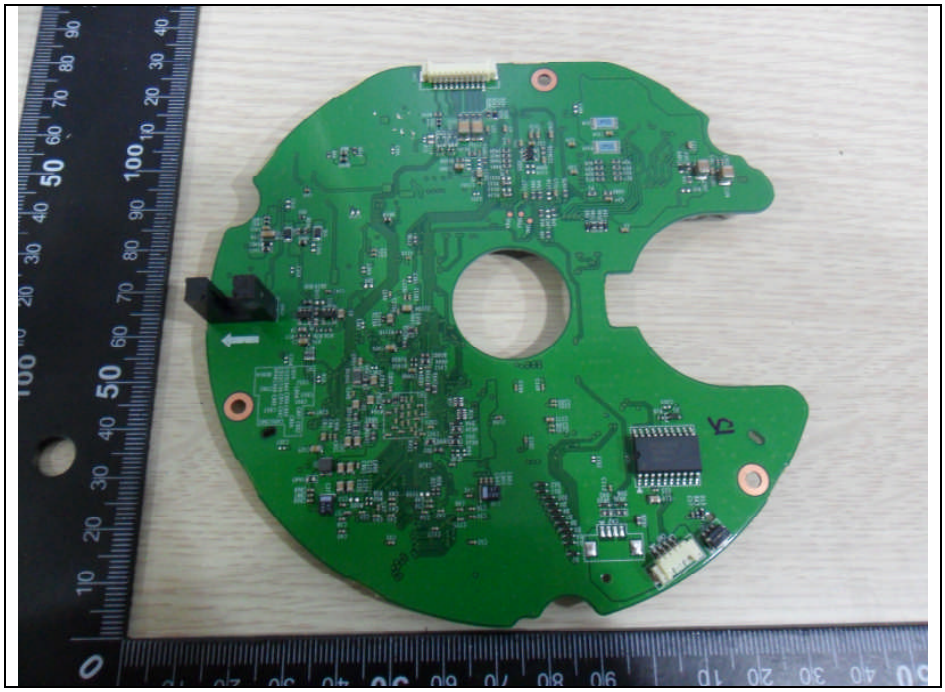
Main Board



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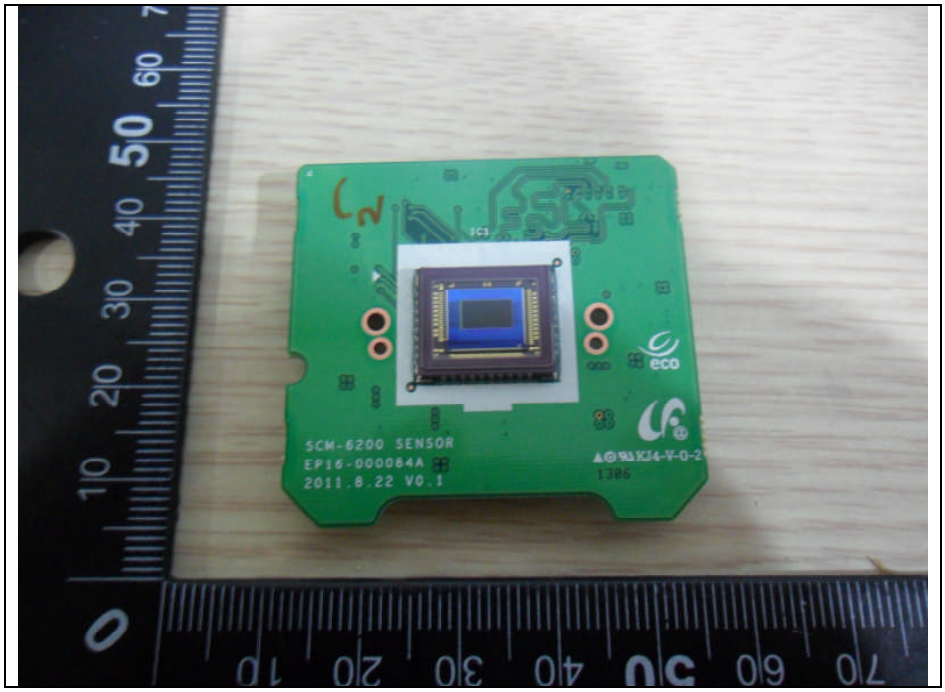
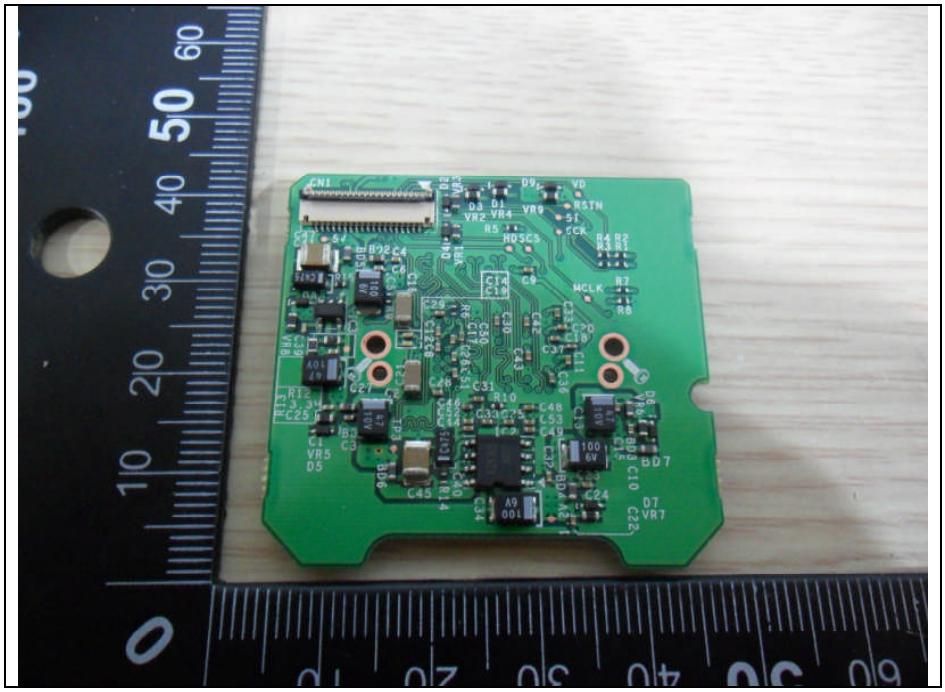
CCD Board





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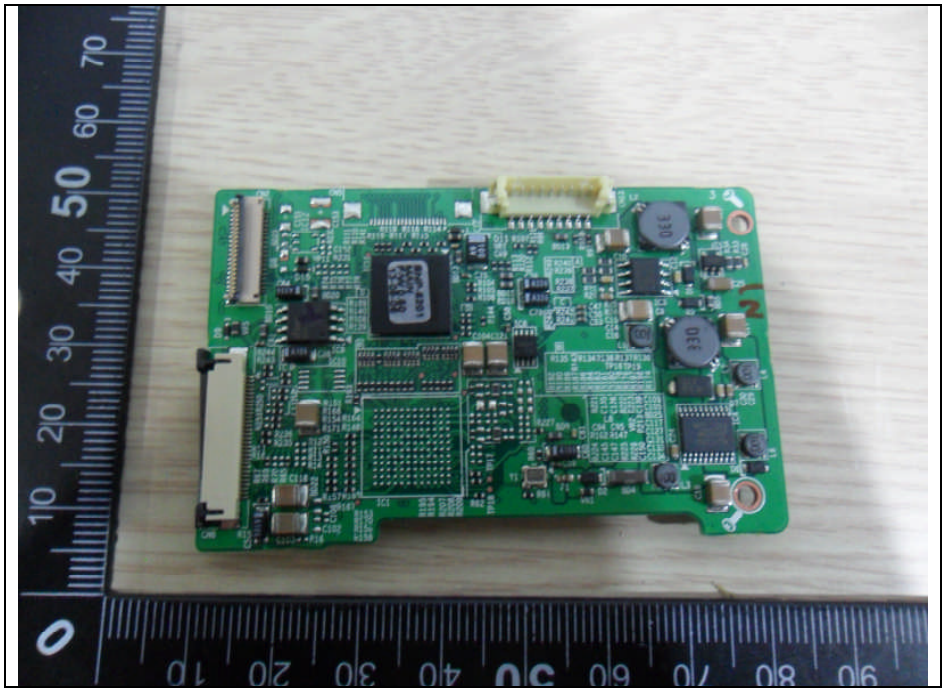
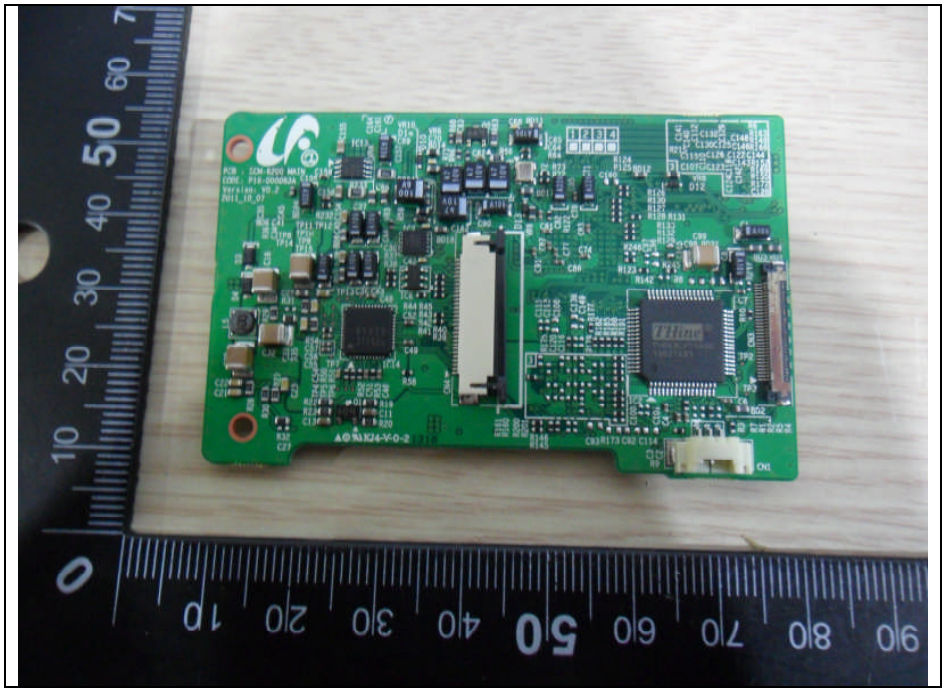
CCD SUB Board





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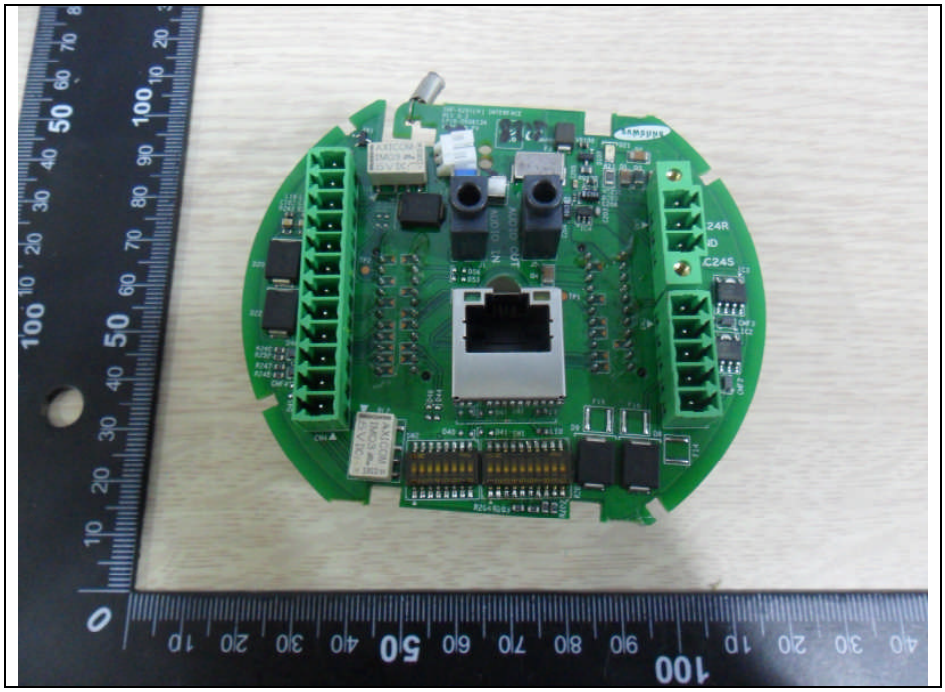
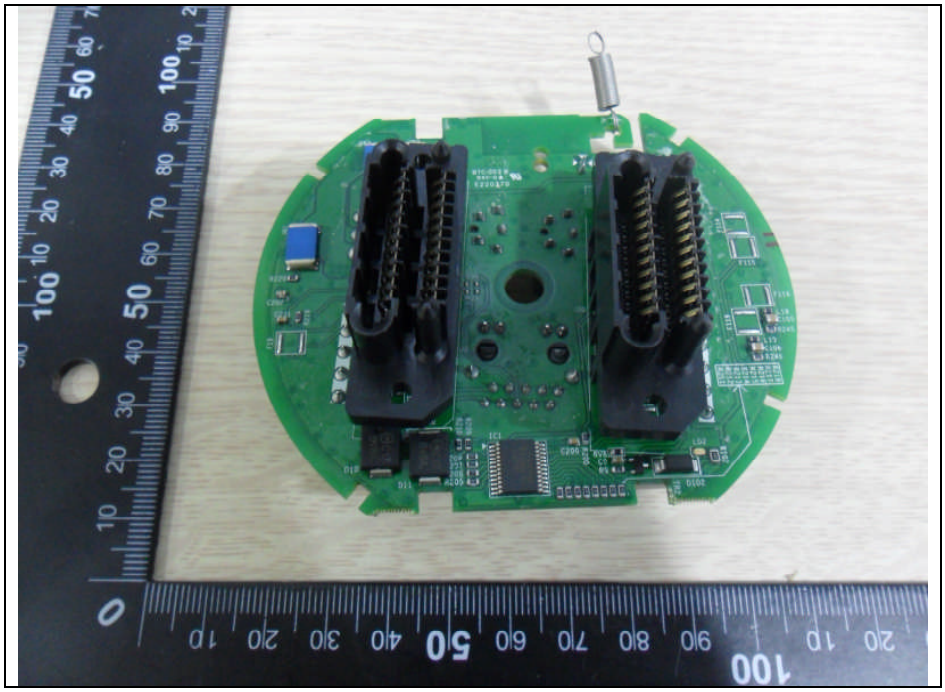
Interface Board





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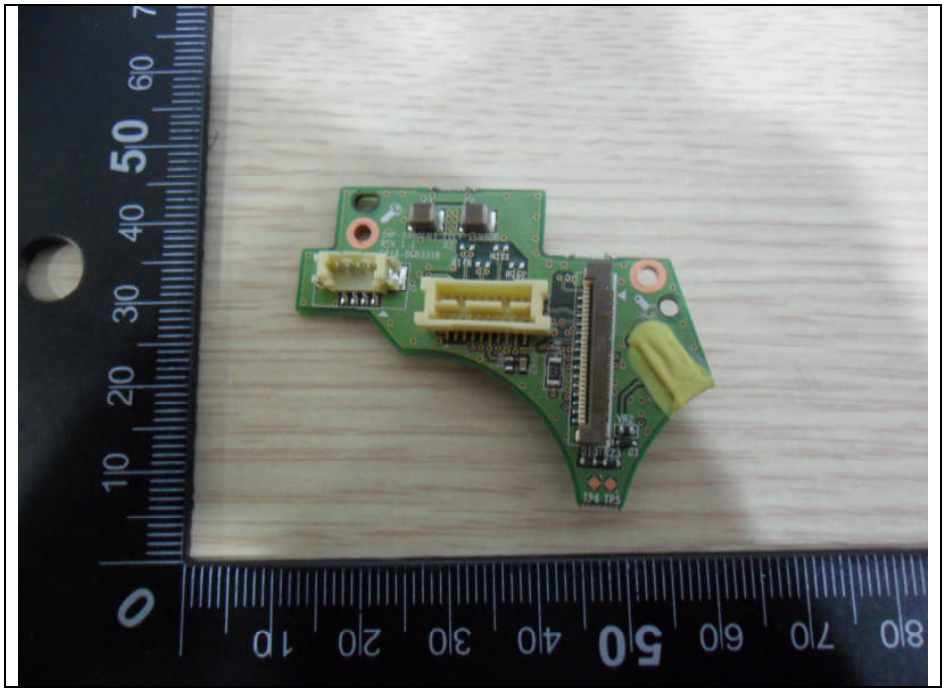
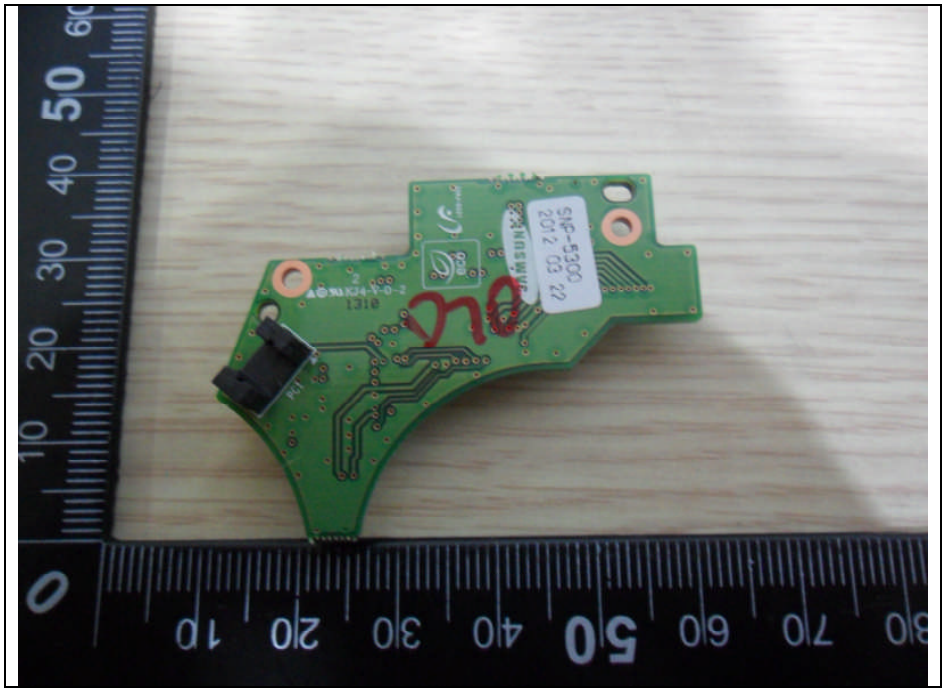
SUB Board





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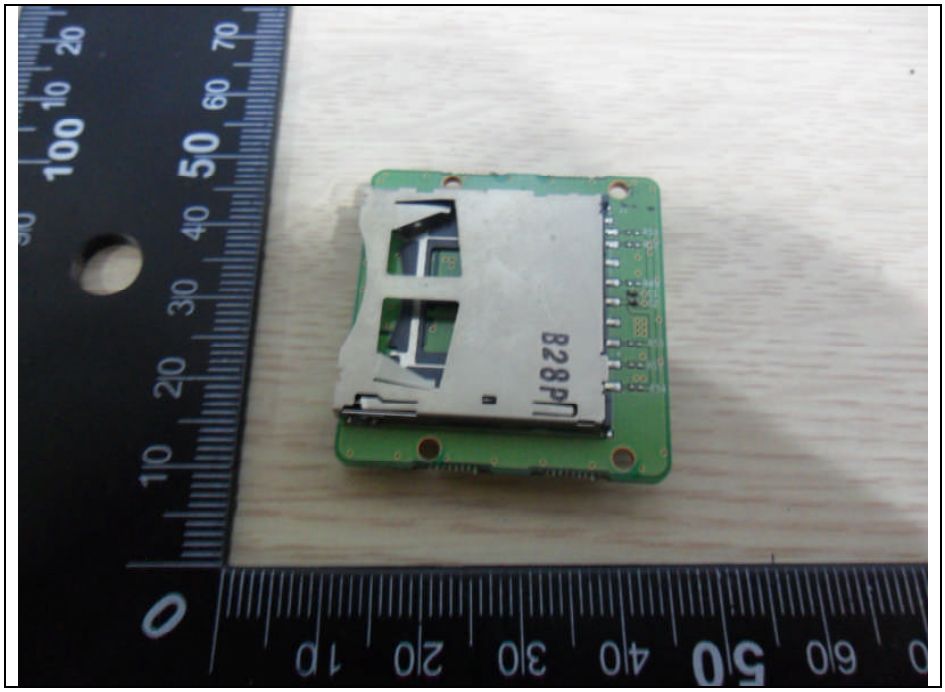
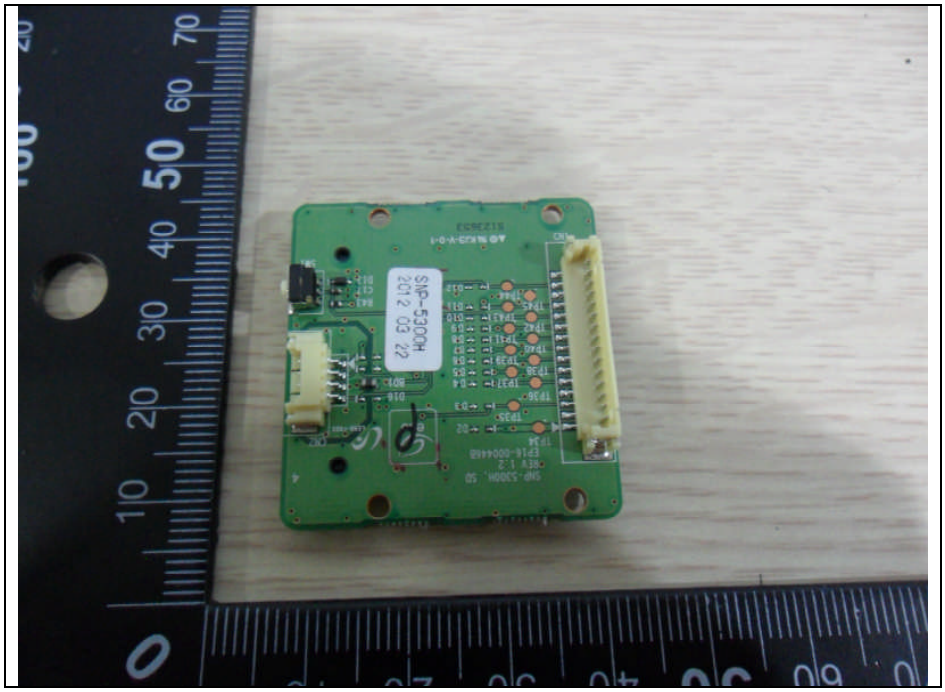
Power Board





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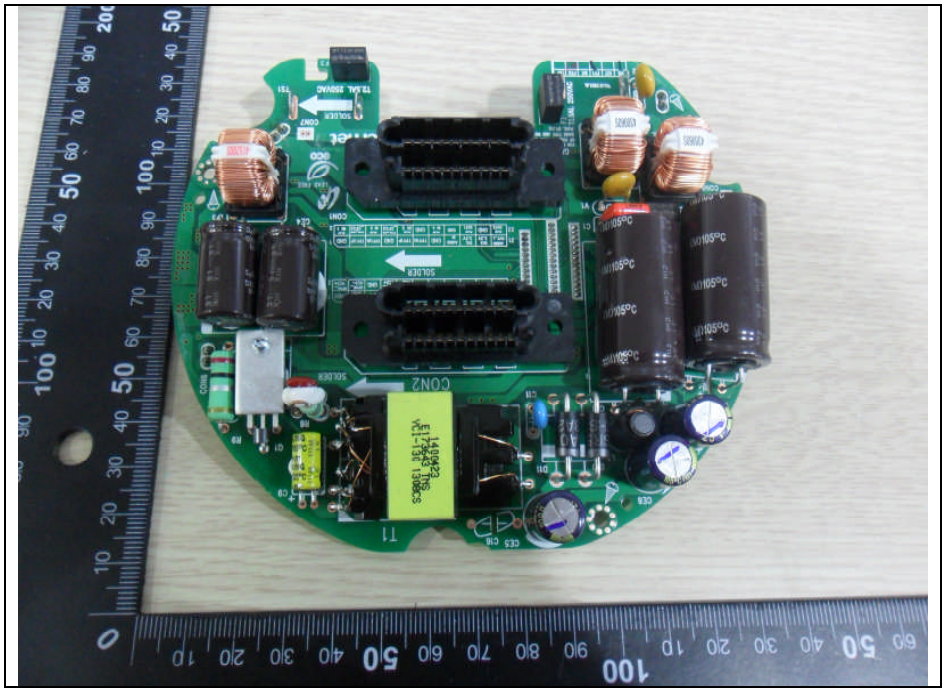
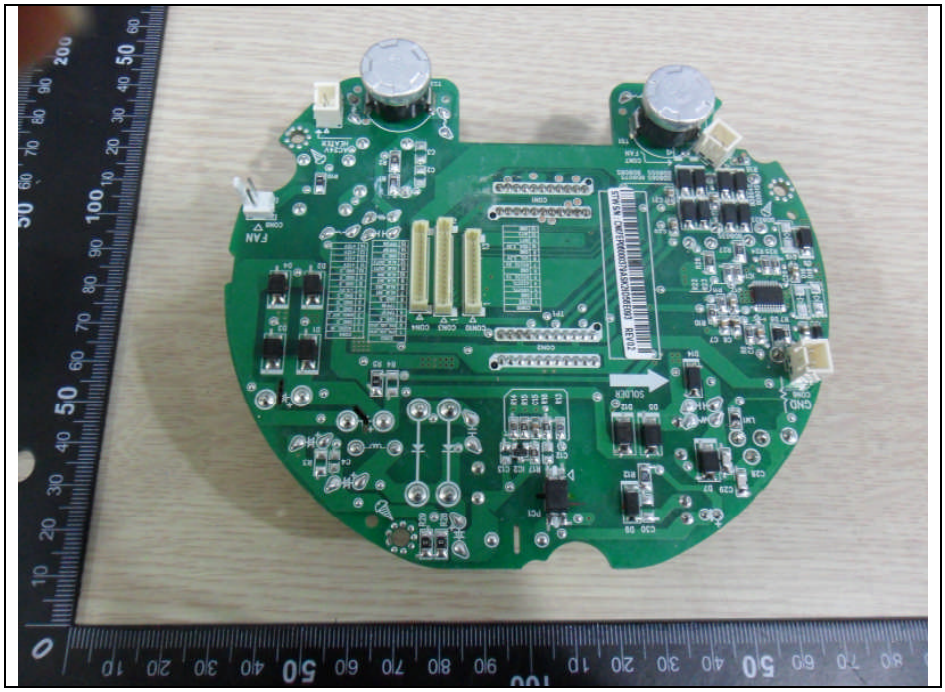
Power Board





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