FCC TEST REPORT

Report No.	: LGN1-2012021
Applicant	: Ericsson-LG Co., Ltd.
Brand Name	: Ericsson-LG
Product Name	: IP Gigabit Video Phone
Model Name	: LIP-9070
EUT Type	: Unintentional Radiators - Digital device
Test Standards	: FCC Part 15 Subpart B, ICES-003:2004,
	: ANSI C63.4-2009, CISPR 22:2008
FCC Classification	: Class B
FCC Procedure	: Verification
Test Results	: Pass
Date of Receipt	: Apr 25, 2012
Date of Test	: Apr 25, 2012 ~ Sep 5, 2012
Date of Issue	: Sep 27, 2012

This report may apply only to the sample(s) tested. It is the manufacturer's responsibility to assure that the additional production units of this product are manufactured with identical electrical and mechanical components.

This device has been verified to comply with the applicable requirements in the FCC Part 15 and was tested in accordance with the measurement procedures specified din ANSI C63.4-2009.

This test report consists of 46 pages in total. It may be duplicated completely for legal use with the allowance of the applicant.

Tested by :

Chan Moon
Senior Manager

Reviewed by :

Young-Ho Son
Principal Research Engineer

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1.0 GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant	Ericsson-LG Co., Ltd.
Address of Applicant	LG R&D Complex. 533, Hogye-dong, Dongan-gu, Anyang-si, Gyeonggi-do, 431-749, Korea
Manufacturer	Ericsson-LG Co., Ltd.
Address of Manufacturer	LG R&D Complex. 533, Hogye-dong, Dongan-gu, Anyang-si, Gyeonggi-do, 431-749, Korea

1.2 TEST LABORATORY

Name and Address	Ericsson-LG Co., Ltd. 299, Gongdan-dong, Gumi-si, Gyeongsangbuk-do, Korea
Telephone Number	+82 54 460 7187
Fax. Number	+82 54 460 7187
E-Mail	chan.moon@ericssonlg.com

1.3 GENERAL INFORMATION OF EUT

Brand Name	Ericsson-LG
Product Name	IP Gigabit Video Phone
Model Name	LIP-9070
Serial No.	Prototype
Test Voltage (Used Adaptor)	Input : AC 110 V, 60 Hz Output : DC 48 V, 0.3 A
Test Voltage (Used POE)	DC +48 V
Description	This phone is IP Gigabit Video Phone which is operated by POE or Adaptor. It is Gigabit Internet Protocol Phone designed to support hosted telephony service and video calls service over a managed IP network.

1.4 OPERATION MODES AND CONDITIONS

Operating Mode	Operating Condition
Mode 1 - Used Adaptor	We made Video Calls with AE and Ping Test for PC Port.
Mode 2 - Used POE Mode	We made Video Calls with AE and Ping Test for PC Port.
Mode 3 - Used Adaptor	We made Bluetooth Calls with AE and Ping Test for PC Port.
Mode 4 - Used POE Mode	We made Bluetooth Calls with AE and Ping Test for PC Port.

1.5 PERIPHERAL EQUIPMENT

Description	Model	Serial No.	Manufacturer
IP Gigabit Video Phone (EUT)	LIP-9070	Prototype	Ericsson-LG
Advanced Smart 24 Port GE POE Switch	ES-2024GP	LN11160030	Ericsson-LG
IP PABX	MFIM600	Prototype	Ericsson-LG
Laptop	LS70 Express	604KIKX024469	LG Electronics Inc.
IP Gigabit Video Phone	LIP-9070	Prototype	Ericsson-LG
Bluetooth Earset	BT2010	004NYDA0098	Jabra

1.6 INPUT/OUTPUT PORTS

Name	Type*	Cable Length	Cable Type	Comments
Main Power Input	DC	1.5 m	Unshielded	Connected to Adaptor
LAN	TP	15 m	Unshielded	Connected to ES-2024GP
PC	TP	15 m	Unshielded	Connected to Laptop

* Type:
AC - AC Power Port, DC - DC Power Port, N/E - Non-Electrical
TP - Telecommunication Port
I/O - Signal Input or Output Port (not involved in process control)

1.7 INTERNAL OPERATING FREQUENCIES OF EUT

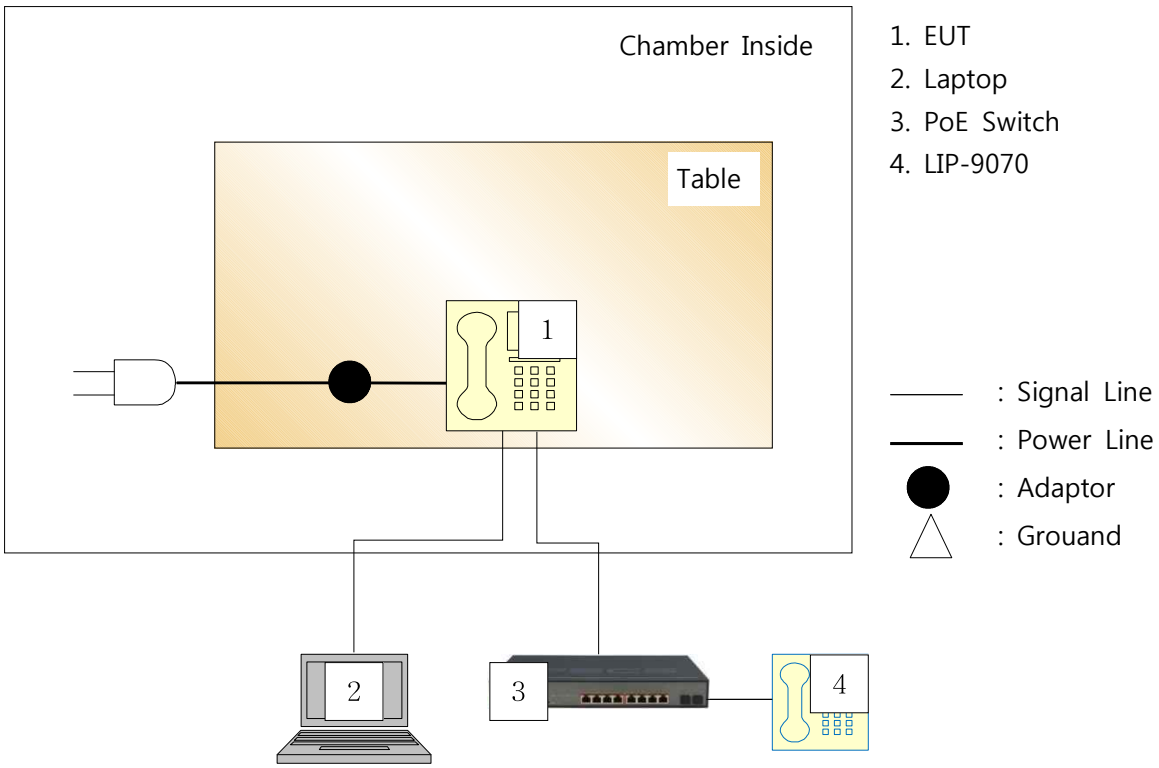
Board	Frequency	Description
MBU	32.76 KHz	RTC
MBU	12 MHz	CPU
MBU	13.824 MHz	AUDIO
MBU	25 MHz	LAN
MBU	400 MHz	DDR

1.8 SYSTEM CONFIGURATIONS

<Not applicable - only applicable for system type EUT>

Description	Model	Serial No.	Manufacturer

1.9 TEST CONFIGURATIONS



■ Operation conditions :

The EUT is provided 48Vdc by adapter or PoE of Switch.
It has two RJ45 ports. One is LAN port and the other is PC port. LAN port was connected to PoE Switch and PC port was connected to the Laptop PC. Laptop PC was on ping test to the PoE Switch via EUT.
The MFIM600 operates as the exchanger by connecting to PoE Switch.
To test the call status for Bluetooth headset with another Video Phone, first Bluetooth headset is paired with EUT.
And Video call or Bluetooth call were maintained between EUT and another Video Phone.

1.10 MODIFICATIONS

There was no modified item during the test.

2.0 TEST SUMMARY

Test Type	Standard	Result	Remarks
Conducted Emission	FCC Part 15 Subpart B, Class B, ICES-003:2004, ANSI C63.4-2009, CISPR 22:2008	PASS	150 kHz ~ 30 MHz
Radiated Emission		PASS	30 MHz ~ 1 GHz
Radiated Emission		PASS	1 GHz ~ 6 GHz
The highest emission observed was at 8.0386 MHz for conducted emission with a A.V margin of 8.66 dB, at 190.15 MHz for radiated emission with a Q.P margin of 3.06 dB (Mode 3).			

Remark:
The EUT Has been tested / evaluated and passed the above standards without modification.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

Measurement	Frequency	Uncertainty
Conducted Emission	150 kHz ~ 30 MHz	2.48 dB
Radiated Emission	30 MHz ~ 300 MHz	5.12 dB
	300 MHz ~ 1000 MHz	3.38 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a converge factor of k=2.

3.0 EMISSION TEST

3.1 POWER-LINE CONDUCTED EMISSION

3.1.1 LIMITS OF POWER-LINE CONDUCTED EMISSION

Class	Frequency [MHz]	Limit [dB(μV)]	
		Quasi-peak	Average
A	0.15 to 0.5	79	66
	0.5 to 30	73	60
B	0.15 to 0.5	66 to 56	56 to 46
	0.5 to 5	56	46
	5 to 30	60	50
Note: The lower limit shall apply at the transition frequencies. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.			

3.1.2 TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due Date of Calibration	Used
EMI Test Receiver	ESU26	ROHDE&SCHWARZ	100368	2012.11.25	☒
EMI Test Receiver	ESI26	ROHDE&SCHWARZ	834000/002	2012.11.25	☐
LISN	3825/2	EMCO	9502-1944	2013.03.30	☐
LISN	3825/2	EMCO	9502-2334	2013.08.17	☒

3.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 m from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ω / 50 μH of coupling impedance for the measuring instrument.
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
c. The frequency range from 150 kHz to 30 MHz was searched. Emission level under limit -20 dB was not reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

3.1.5 ENVIRONMENT CONDITIONS

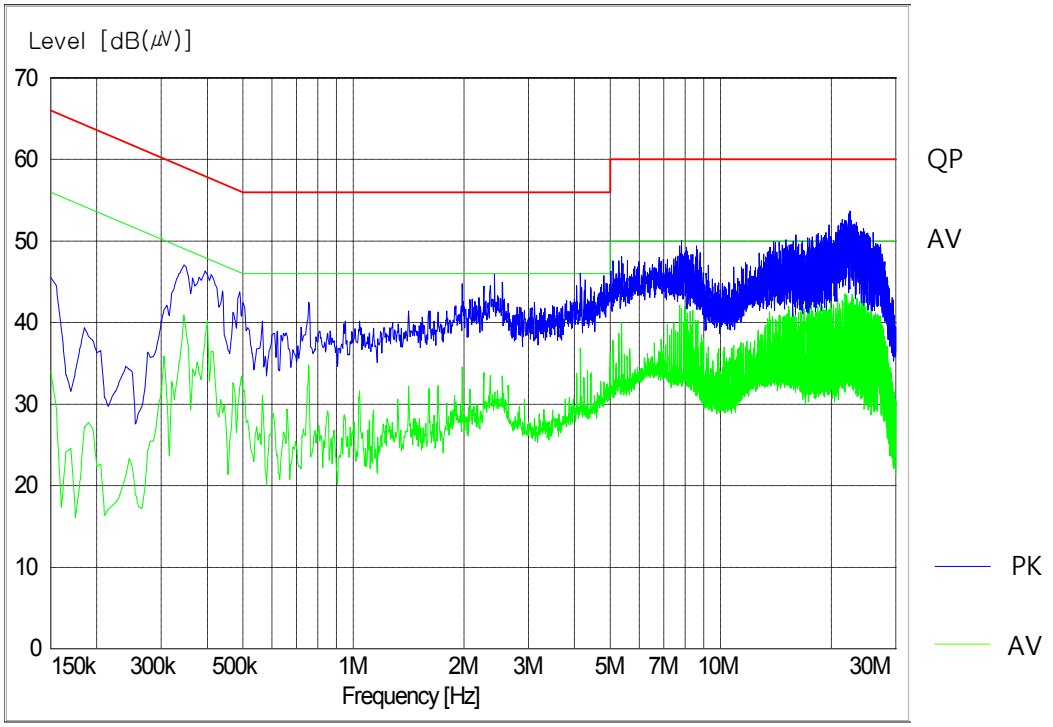
Test Site	Shield Room
Temperature	23 ℃
Humidity	57 % R.H.
Atmospheric Pressure	1009 hPa

3.1.6 TEST RESULTS

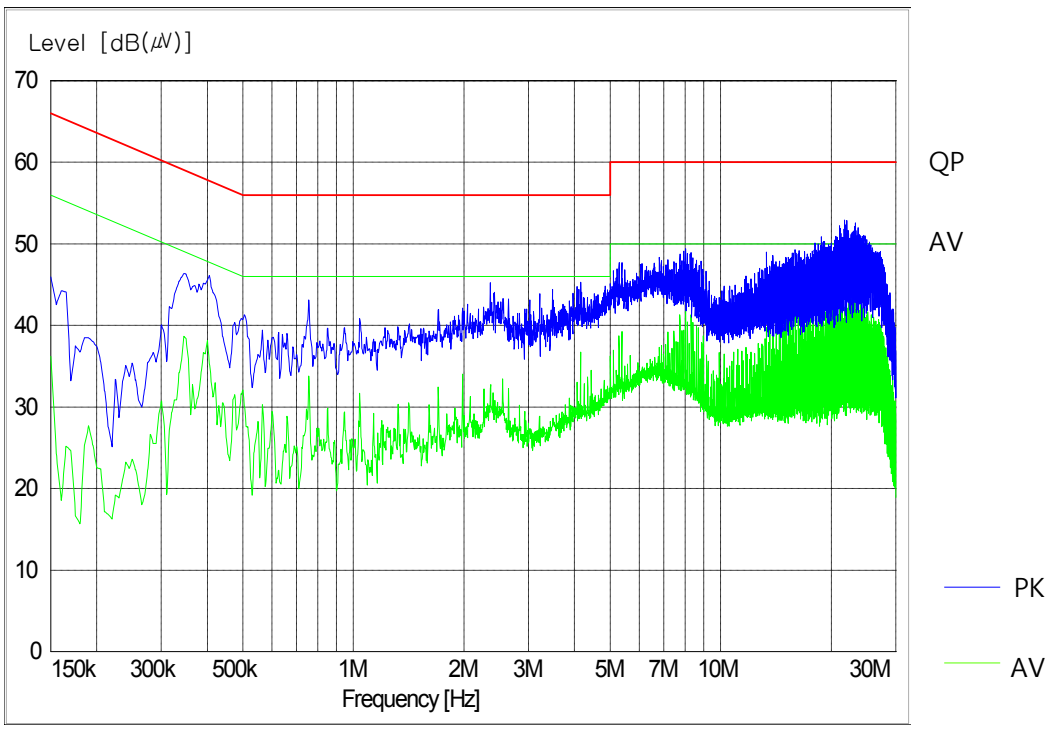
INPUT POWER	110 Vac, 60 Hz	6 dB BANDWIDTH	9 kHz
DATE OF TEST	2012.09.03	TEST MODE	Mode 1

Freq. [MHz]	Corr. Factor [dB]		LINE	Quasi-Peak			Average		
	LISN	Cable		Limit [dB(μV)]	Level [dB(μV)]	Margin [dB]	Limit [dB(μV)]	Level [dB(μV)]	Margin [dB]
0.3449	0.04	0.06	HOT	59.08	46.18	12.90	49.08	39.39	9.69
0.4000	0.04	0.05	HOT	57.85	45.18	12.67	47.85	37.69	10.16
0.7554	0.03	0.06	HOT	56	41.19	14.81	46	35.49	10.51
4.1550	0.03	0.14	HOT		42.04	13.96		35.98	10.02
8.0308	0.05	0.19	HOT	60	45.49	14.51	50	40.28	9.72
13.3216	0.11	0.25	NEU		43.86	16.14		37.32	12.68
21.4700	0.07	0.28	HOT		46.32	13.68		33.21	16.79
23.2460	0.11	0.30	NEU		46.02	13.98		39.08	10.92
* Margin = Limit – Level									

- HOT LINE (Mode 1)



- NEUTRAL LINE (Mode 1)

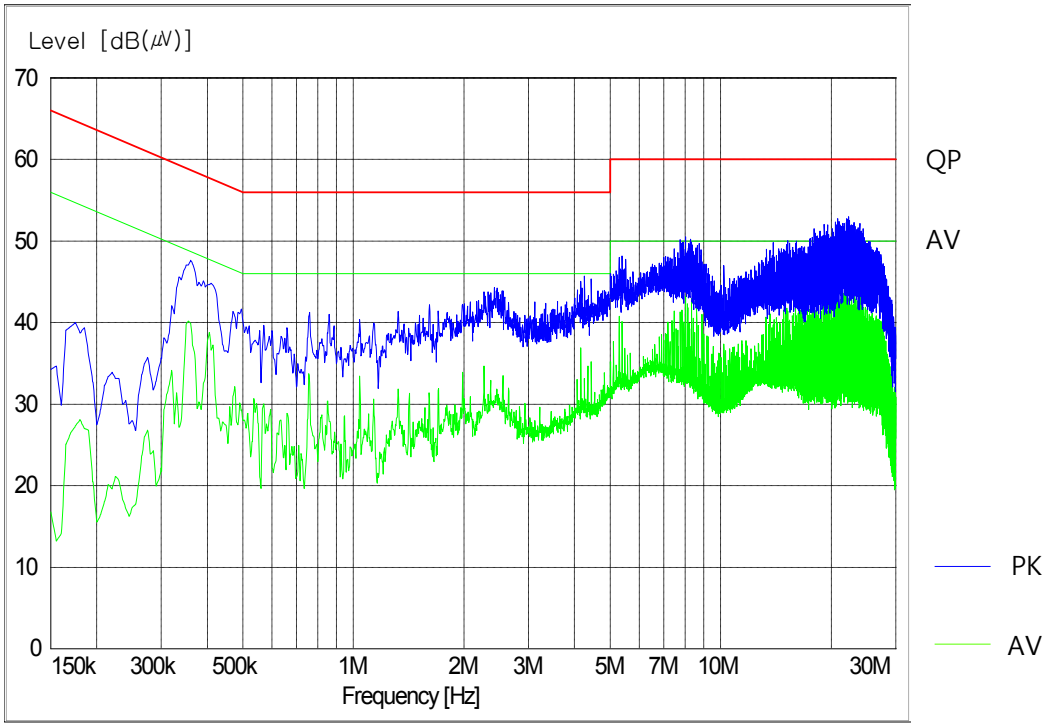


INPUT POWER	110 Vac, 60 Hz	6 dB BANDWIDTH	9 kHz
DATE OF TEST	2012.09.03	TEST MODE	Mode 3

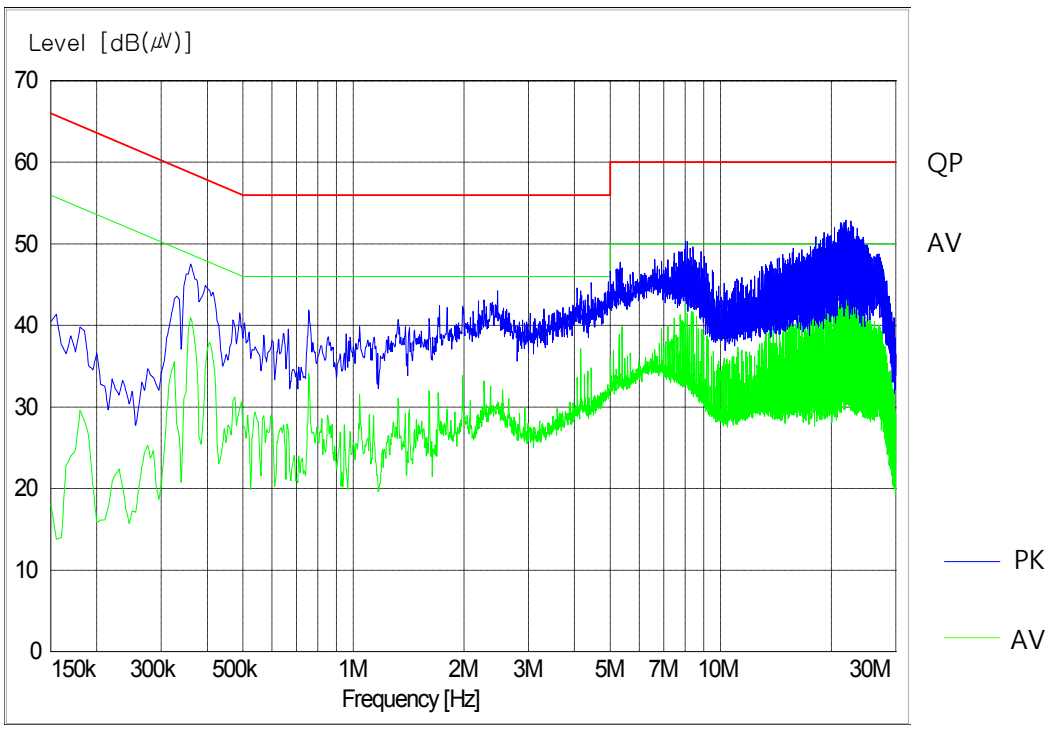
Freq. [MHz]	Corr. Factor [dB]		LINE	Quasi-Peak			Average		
	LISN	Cable		Limit [dB(μV)]	Level [dB(μV)]	Margin [dB]	Limit [dB(μV)]	Level [dB(μV)]	Margin [dB]
0.3600	0.04	0.06	HOT	58.73	46.01	12.72	48.73	39.98	8.75
0.4059	0.04	0.05	HOT	57.73	43.05	14.68	47.73	36.06	11.67
0.7566	0.03	0.06	HOT	56	39.28	16.72	46	33.82	12.18
8.0386	0.05	0.19	HOT	60	46.74	13.26	50	41.34	8.66
20.8056	0.06	0.27	HOT		46.37	13.63		38.79	11.21
21.1760	0.09	0.28	NEU		46.79	13.21		39.77	10.23
21.8471	0.07	0.29	HOT		47.74	12.26		40.18	9.82
22.0260	0.10	0.29	NEU		46.56	13.44		39.01	10.99

* Margin = Limit – Level

- HOT LINE (Mode 3)



- NEUTRAL LINE (Mode 3)



3.2 RADIATED EMISSION (BELOW 1 GHz)

3.2.1 LIMITS OF RADIATED EMISSION

Frequency [MHz]	Limit [dB(μV/m)]	
	Class A (10 m)	Class B (10 m)
30 ~ 230	40	30
230 ~ 1000	47	37

3.2.2 TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due Date of Calibration	Used
EMI Test Receiver	ESU26	ROHDE&SCHWARZ	100368	2012.11.25	☐
EMI Test Receiver	ESI26	ROHDE&SCHWARZ	834000/002	2012.11.25	☒
BiconiLog Antenna	3142B	EMCO	9910-1432	2013.08.24	☐
Biconical Antenna	VHA9103	SCHWARZBECK	BI-02	2012.10.15	☒
Log-periodic Antenna	UHALP9107	SCHWARZBECK	1426	2012.10.15	☒

3.2.3 TEST PROCEDURE

a. Radiated emission testing was performed at a 10 meters semi-anechoic chamber. The EUT was placed on a turntable top 0.8 m above ground. The table rotated 360 degrees to determine the position of the highest radiation.
b. EUT was set 10 meters from the EMI receiving antenna, which was mounted on a variable-height antenna tower.
c. The antenna height was varied between 1 meter and 4 meters above ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

NOTE: The IF bandwidth of test receiver is 120 kHz for quasi-peak detection (QP) at frequency below 1 GHz.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 ENVIRONMENT CONDITIONS

Test Site	10 m Semi-anechoic Chamber
Temperature	24 ℃
Humidity	45 % R.H.
Atmospheric Pressure	1008 hPa

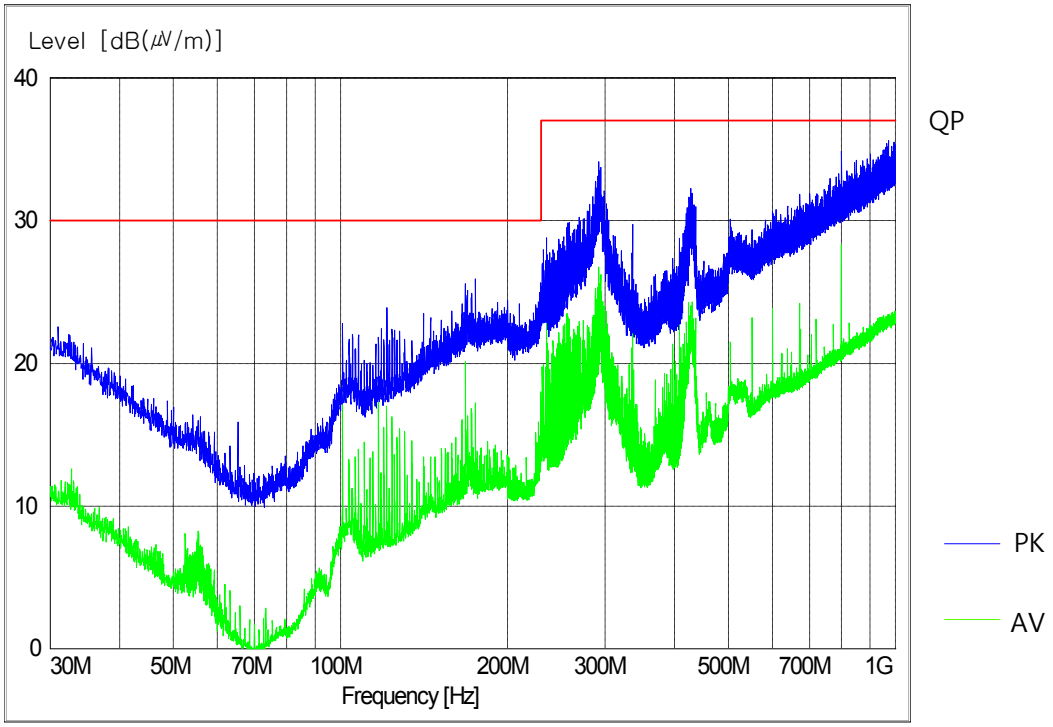
3.2.6 TEST RESULTS

TEST DISTANCE	10 m	6 dB BANDWIDTH	120 kHz
DATE OF TEST	2012.08.31	TEST MODE	Mode 1

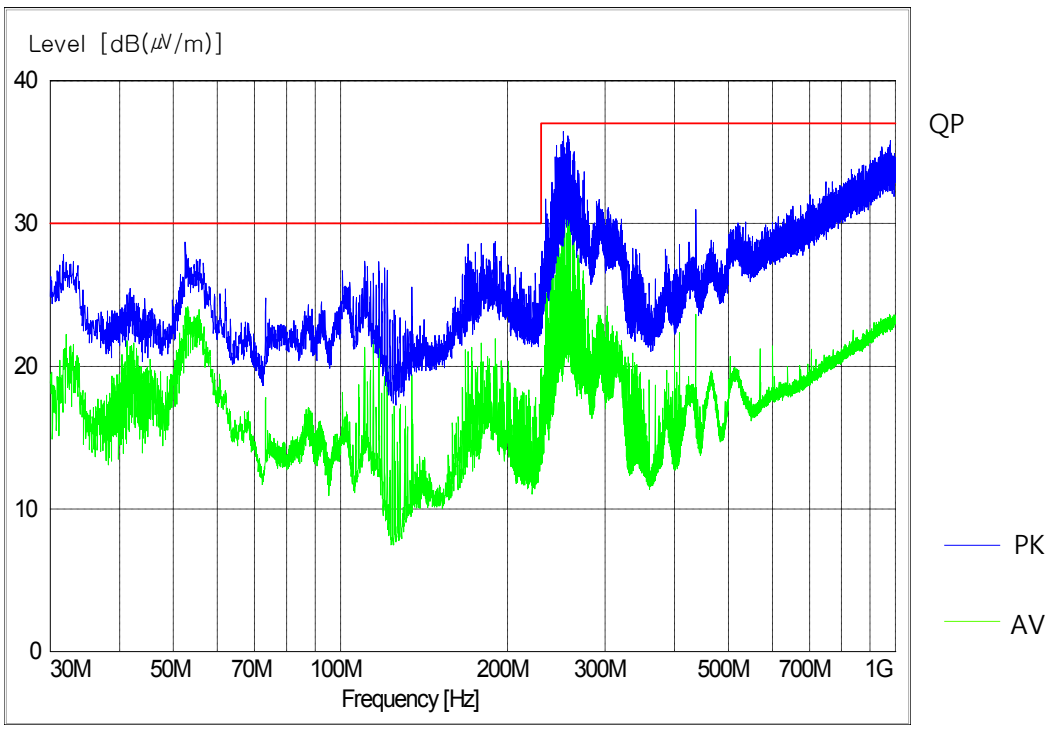
Freq. [MHz]	Pol.	Antenna Height [m]	Table Angle (°)	Corr. Factor		Read Level [dB(μV)]	Limit [dB(μV/m)]	Level [dB(μV/m)]	Margin [dB]
				Antenna [dB/m]	Cable [dB]				
33.10	V	1.00	0	17.34	0.78	6.60	30	24.72	5.28
53.10	V	3.05	92	10.08	1.00	15.24		26.32	3.68
73.30	V	2.21	299	6.47	1.18	14.49		22.14	7.86
100.80	H	3.16	360	10.36	1.38	8.93		20.67	9.33
117.05	V	1.00	292	12.51	1.49	10.67		24.67	5.33
191.45	V	1.00	353	16.03	1.98	8.78		26.79	3.21
252.40	V	1.00	360	16.98	2.19	13.87	37	33.04	3.96
257.20	V	1.00	0	17.17	2.22	13.80		33.19	3.81
800.00	H	1.00	346	22.97	4.07	5.40		32.44	4.56

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB]
* Margin = Limit – Level

- HORIZONTAL (Mode 1)



- VERTICAL (Mode 1)

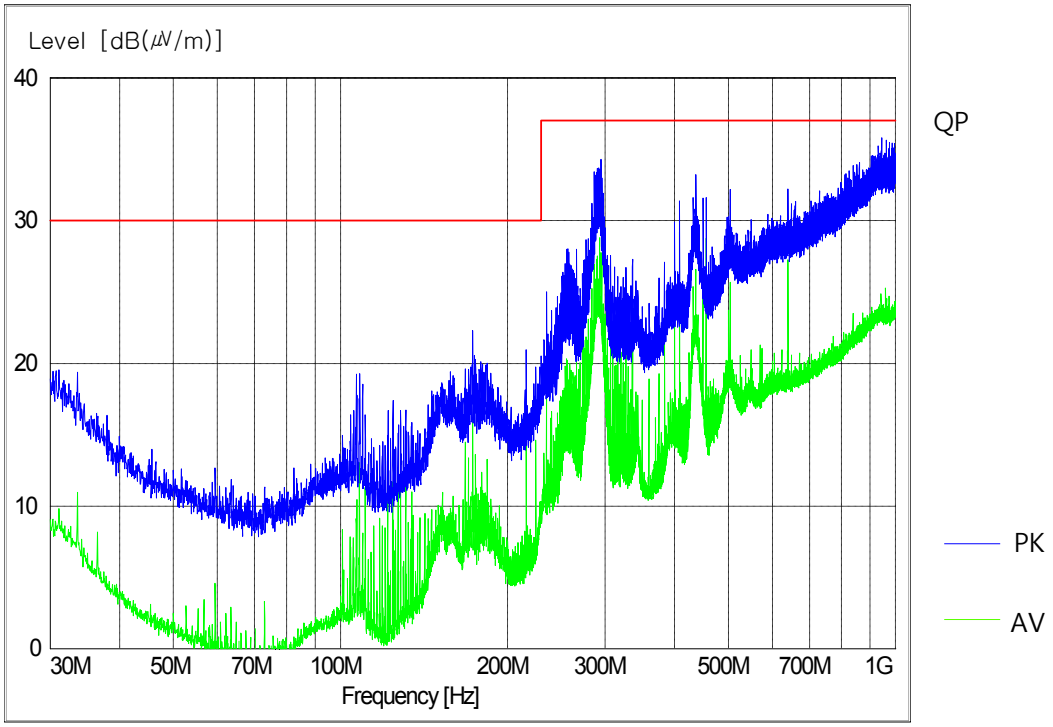


TEST DISTANCE	10 m	6 dB BANDWIDTH	120 kHz
DATE OF TEST	2012.04.25	TEST MODE	Mode 2

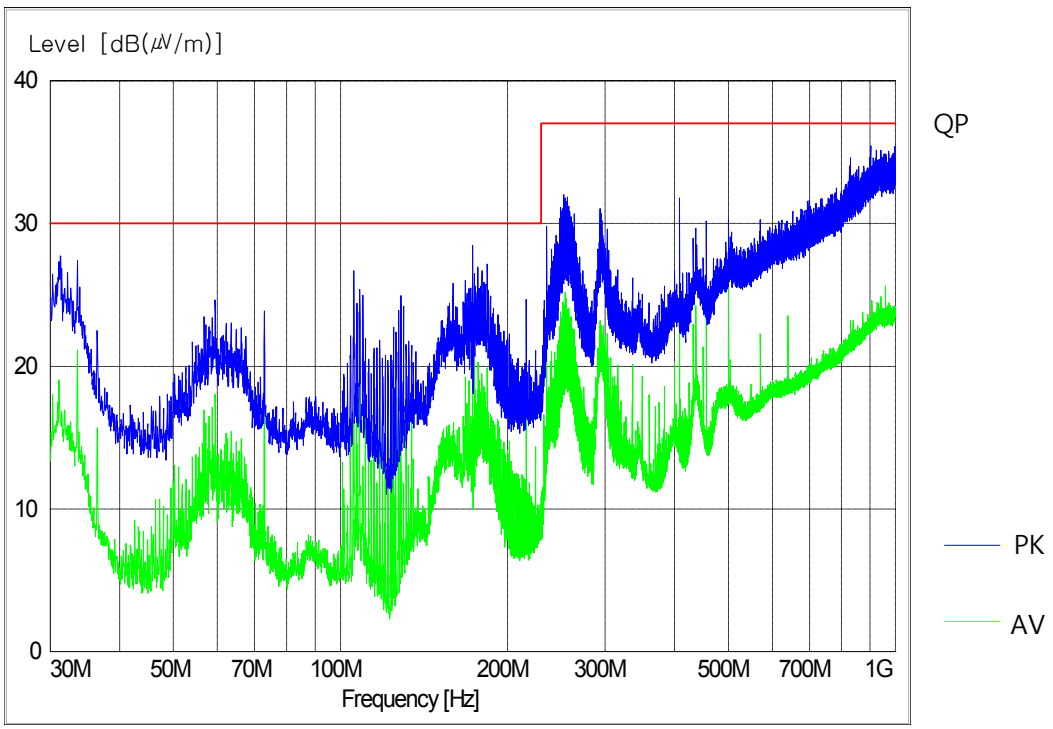
Freq. [MHz]	Pol.	Antenna Height [m]	Table Angle (°)	Corr. Factor		Read Level [dB(μV)]	Limit [dB(μV/m)]	Level [dB(μV/m)]	Margin [dB]
				Antenna [dB/m]	Cable [dB]				
31.08	V	1.00	0	15.55	0.78	7.19	30	23.52	6.48
33.60	V	1.00	325	14.16	0.79	6.84		21.79	8.21
59.48	V	2.98	0	6.19	1.06	11.31		18.56	11.44
105.60	V	1.00	281	7.21	1.42	15.56		24.19	5.81
128.36	V	1.00	4	6.40	1.58	13.75		21.73	8.27
172.94	V	1.00	360	9.12	1.85	10.71		21.68	8.32
291.84	H	3.46	12	13.29	2.42	17.43	37	33.14	3.86
408.00	H	2.21	58	16.60	2.89	13.58		33.07	3.93
436.80	H	2.12	261	17.24	3.00	11.93		32.17	4.83

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB]
* Margin = Limit – Level

- HORIZONTAL (Mode 2)



- VERTICAL (Mode 2)

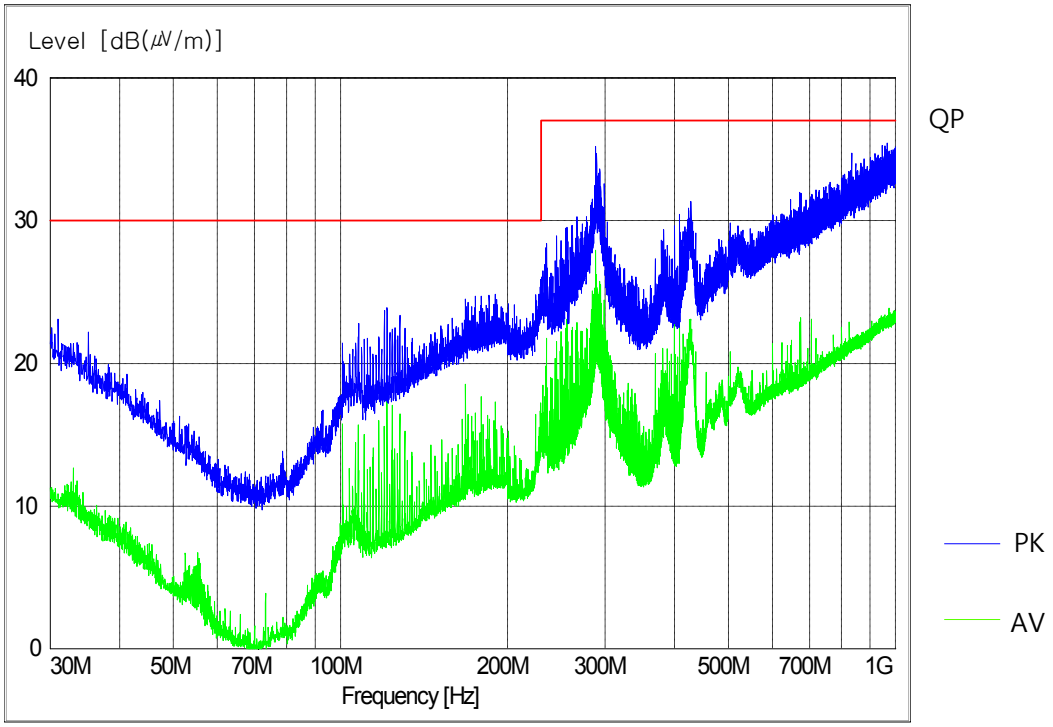


TEST DISTANCE	10 m	6 dB BANDWIDTH	120 kHz
DATE OF TEST	2012.08.31	TEST MODE	Mode 3

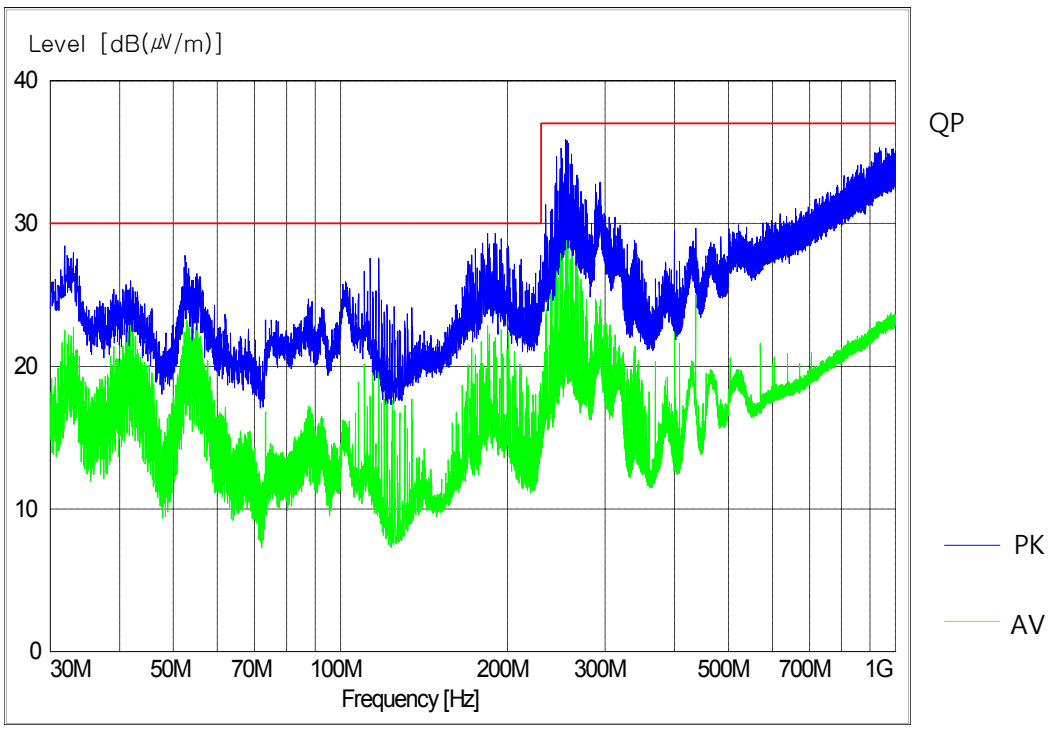
Freq. [MHz]	Pol.	Antenna Height [m]	Table Angle (°)	Corr. Factor		Read Level [dB(μV)]	Limit [dB(μV/m)]	Level [dB(μV/m)]	Margin [dB]
				Antenna [dB/m]	Cable [dB]				
33.50	V	1.00	0	17.18	0.79	7.19	30	25.16	4.84
52.55	V	3.51	287	10.27	0.99	9.85		21.11	8.89
110.45	V	1.00	81	11.63	1.45	11.11		24.19	5.81
117.15	V	1.00	271	12.52	1.50	7.69		21.71	8.29
175.05	V	1.00	327	15.57	1.86	6.73		24.16	5.84
190.15	V	1.00	334	15.99	1.97	8.98		26.94	3.06
254.70	V	1.00	325	17.07	2.20	13.85	37	33.12	3.88
255.85	V	1.00	357	17.12	2.21	13.89		33.22	3.78
400.00	H	2.11	355	16.71	2.86	9.61		29.18	7.82

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB]
* Margin = Limit – Level

- HORIZONTAL (Mode 3)



- VERTICAL (Mode 3)

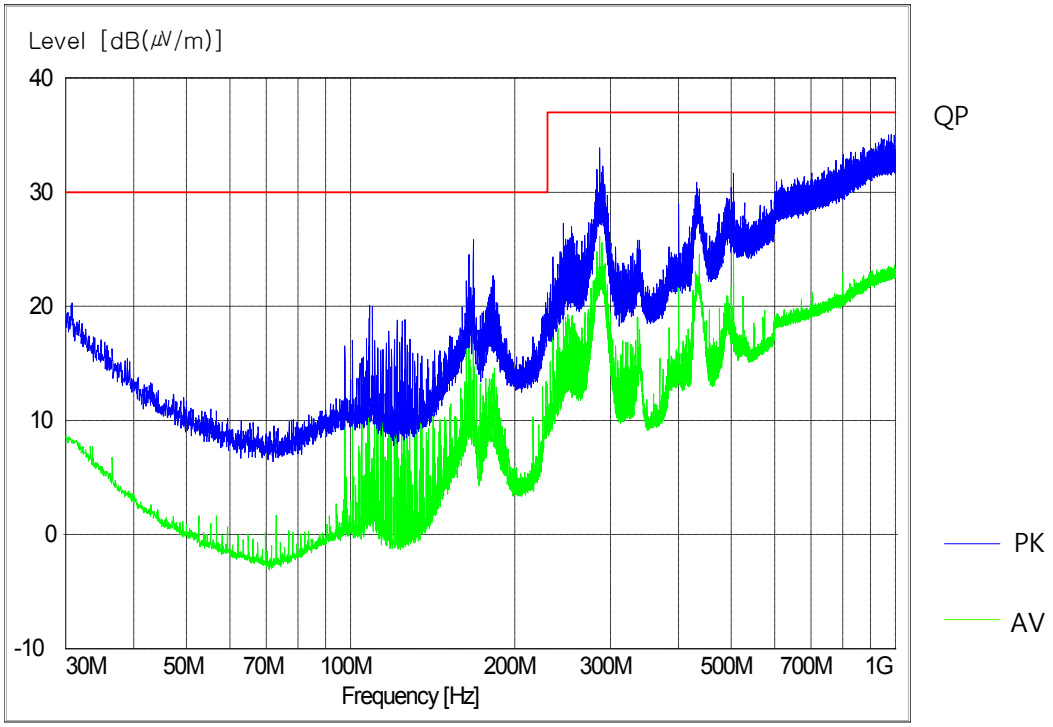


TEST DISTANCE	10 m	6 dB BANDWIDTH	120 kHz
DATE OF TEST	2012.05.04	TEST MODE	Mode 4

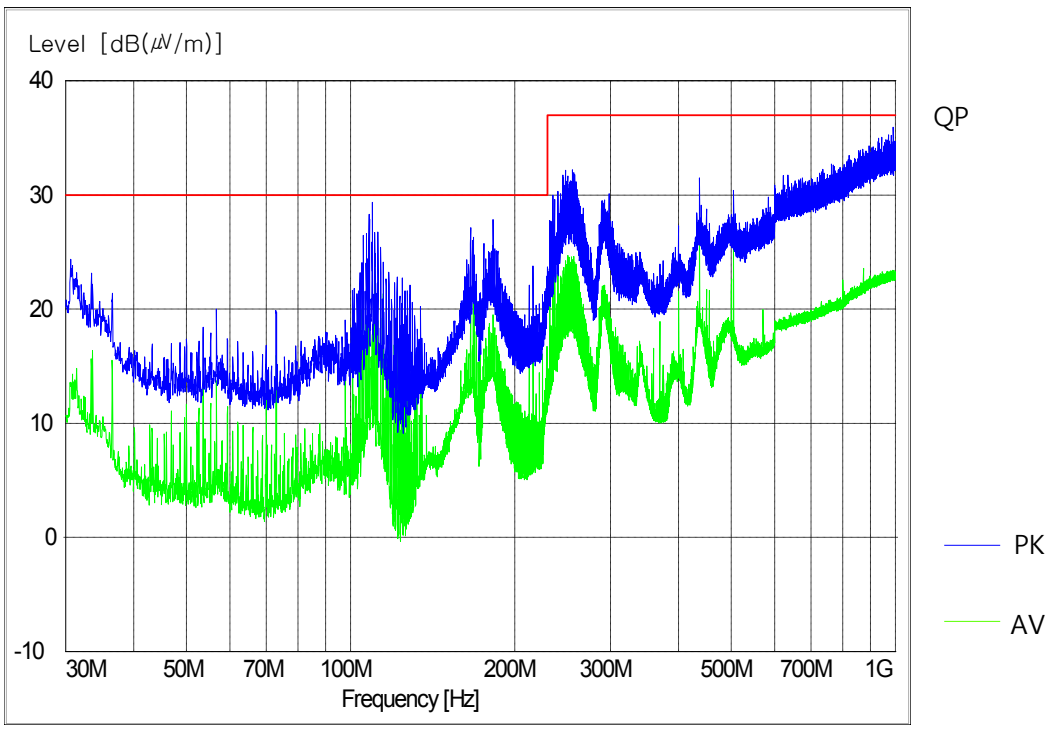
Freq. [MHz]	Pol.	Antenna Height [m]	Table Angle (°)	Corr. Factor		Read Level [dB(μV)]	Limit [dB(μV/m)]	Level [dB(μV/m)]	Margin [dB]
				Antenna [dB/m]	Cable [dB]				
30.64	V	1.00	5	15.80	0.77	3.86	30	20.43	9.57
33.60	V	1.00	15	14.16	0.79	5.44		20.39	9.61
110.80	V	1.00	51	6.76	1.46	18.18		26.40	3.60
166.17	V	1.00	339	8.92	1.81	14.52		25.25	4.75
182.39	V	1.00	351	9.30	1.92	11.08		22.30	7.70
245.90	V	1.00	218	12.12	2.17	16.21	37	30.50	6.50
286.42	H	3.39	320	13.17	2.39	17.11		32.67	4.33

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB]
* Margin = Limit – Level

- HORIZONTAL (Mode 4)



- VERTICAL (Mode 4)



3.3 RADIATED EMISSION (ABOVE 1 GHz)

3.3.1 LIMITS OF RADIATED EMISSION

Class	Frequency [GHz]	Limit [dB(μV/m)]	
		Peak	Average
A (3 m)	1 ~ 6	80	60
B (3 m)	1 ~ 6	74	54

Note: The highest internal source of a EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes.

1. If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz.

2. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz.

3. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz.

4. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

3.3.2 TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due Date of Calibration	Used
EMI Test Receiver	ESU26	ROHDE&SCHWARZ	100368	2012.11.25	☐
EMI Test Receiver	ESI26	ROHDE&SCHWARZ	834000/002	2012.11.25	☒
Horn Antenna	3115	EMCO	9202-3820	2013.09.08	☒
Low Noise Amplifier	TK-LS1	TESTEK	110001	2013.08.17	☒

3.3.3 TEST PROCEDURE

a. Radiated testing was performed at a 3 meters semi-anechoic chamber. The EUT was placed on a turntable top 0.8 m above ground. The table was 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters from the EMI receiving antenna, which was mounted on a variable -height antenna tower.
c. The antenna height was the center of the EUT. Both horizontal and vertical polarizations of the antenna were set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna

was fixed to height at the center of the EUT and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 1 MHz for peak and average detection at frequency above 1 GHz.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 ENVIRONMENT CONDITIONS

Test Site	3 m Semi-anechoic Chamber
Temperature	24 ℃
Humidity	59 % R.H.
Atmospheric Pressure	1010 hPa

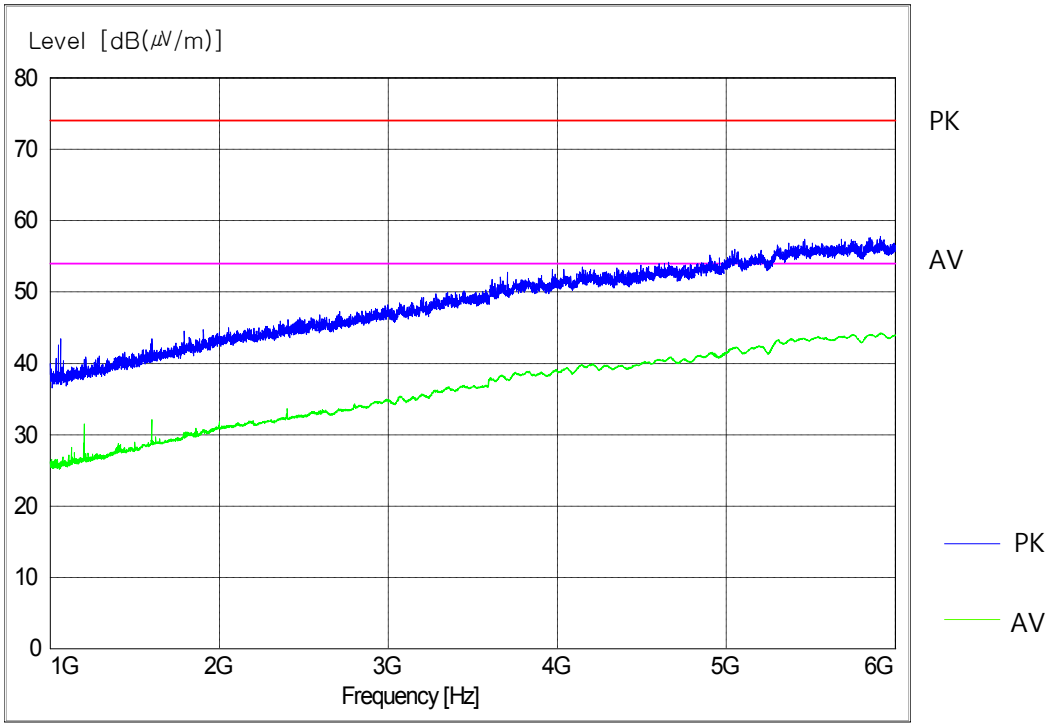
3.3.6 TEST RESULTS

TEST DISTANCE	3 m	6 dB BANDWIDTH	1 MHz
DATE OF TEST	2012.09.04	TEST MODE	Mode 1

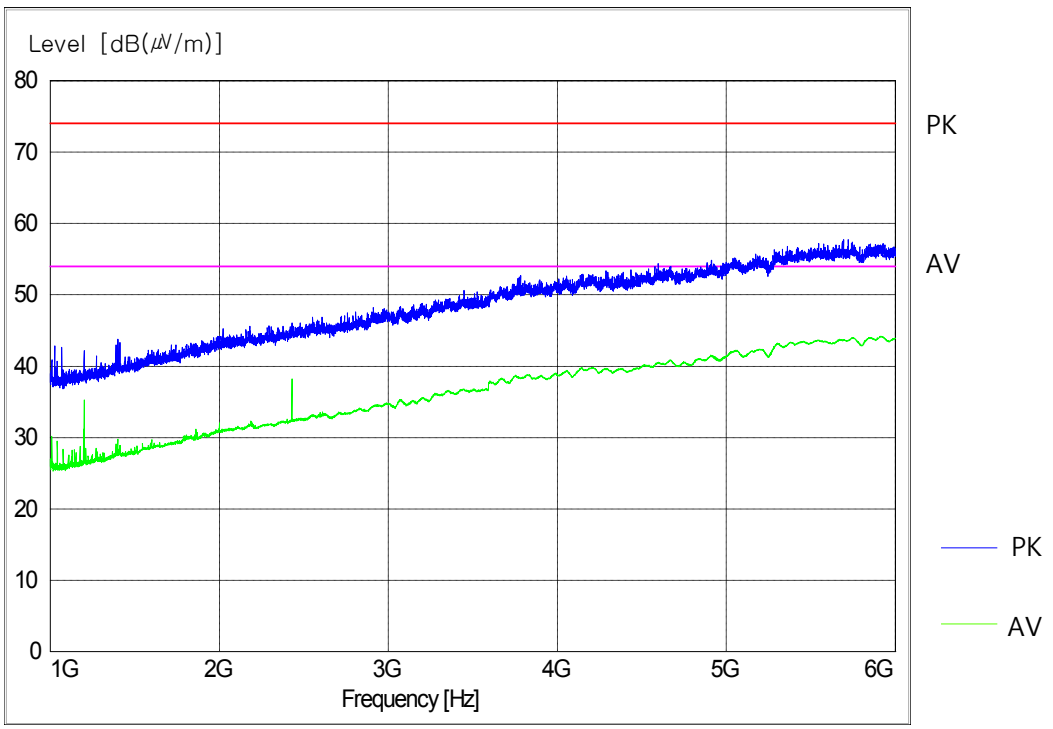
Freq. [GHz]	Read Level [dB(μV)]		Pol.*	Ant. Height [m]	Table Angle (°)	Correction Factor*			Limit [dB(μV/m)]		Level [dB(μV/m)]*	
	Peak	AV				Ant. [dB/m]	Cable [dB]	Amp [dB]	Peak	AV	Peak	AV
1.00799	55.61	54.12	V	1.00	203	24.16	6.20	-45.09	74	54	40.88	39.39
1.19999	56.61	48.22	V	1.00	167	24.81	6.69	-44.94			43.17	34.78

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB] + Amp [dB]

- HORIZONTAL (Mode 1)



- VERTICAL (Mode 1)

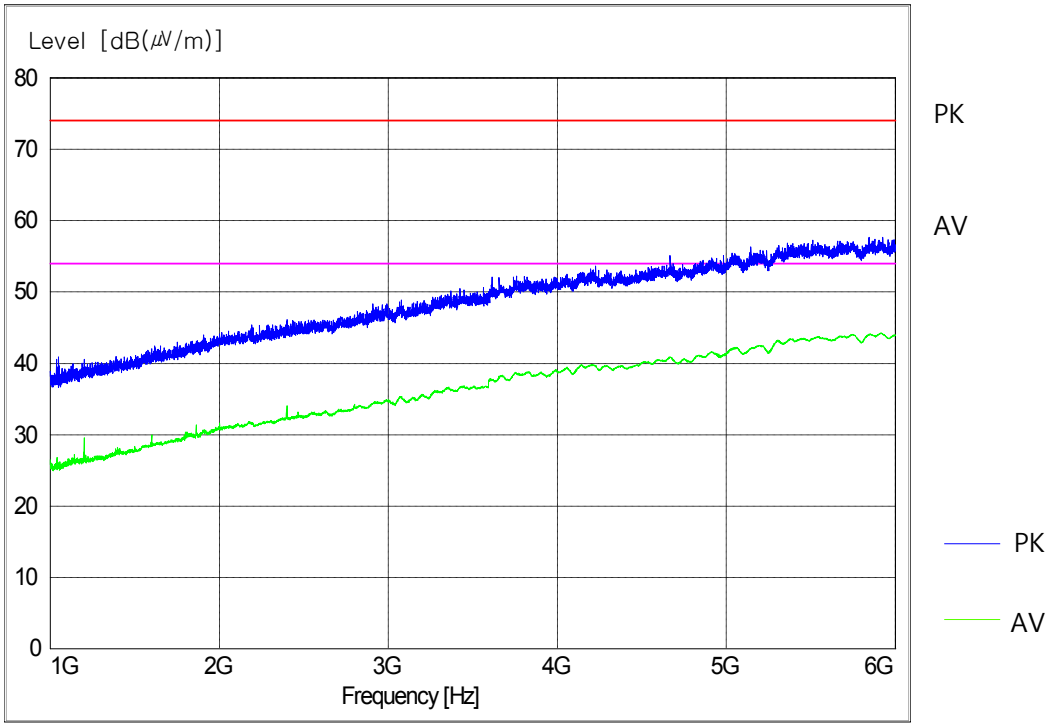


TEST DISTANCE	3 m	6 dB BANDWIDTH	1 MHz
DATE OF TEST	2012.05.17	TEST MODE	Mode 2

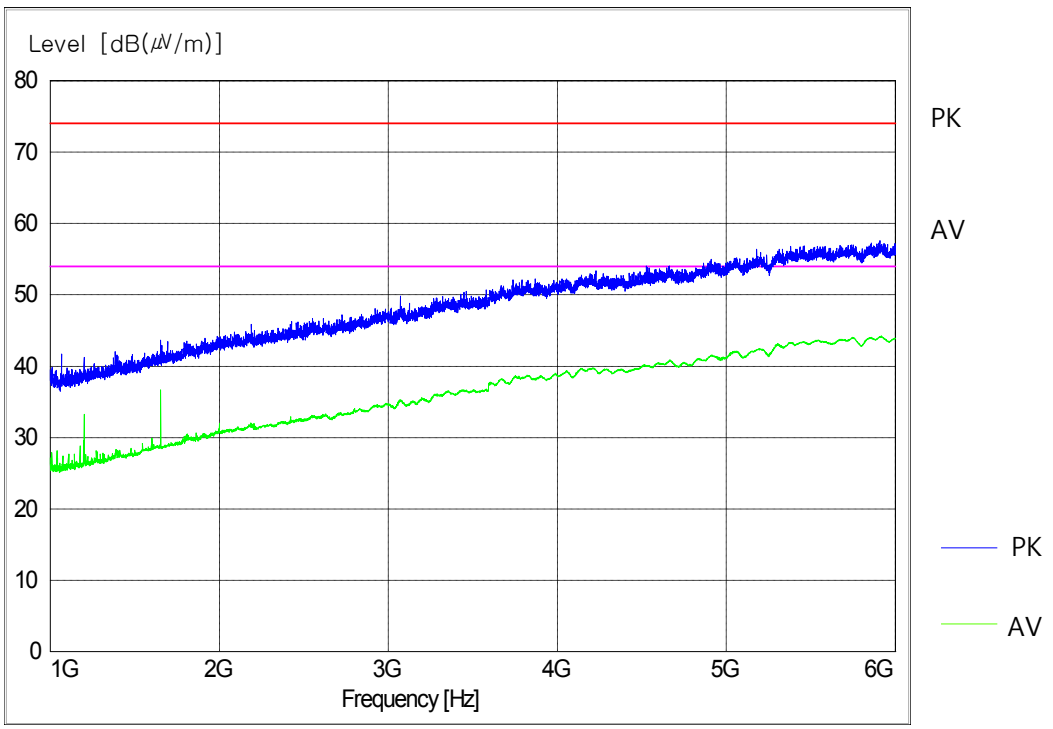
Freq. [GHz]	Read Level [dB(μV)]		Pol.*	Ant. Height [m]	Table Angle (°)	Correction Factor*			Limit [dB(μV/m)]		Level [dB(μV/m)]*	
	Peak	AV				Ant. [dB/m]	Cable [dB]	Amp [dB]	Peak	AV	Peak	AV
1.19989	54.86	44.67	V	1.00	304	24.82	6.70	-46.04	74	54	40.34	30.15
1.65162	56.63	42.87	V	1.00	57	26.35	7.92	-45.59			45.31	31.55

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB] + Amp [dB]

- HORIZONTAL (Mode 2)



- VERTICAL (Mode 2)

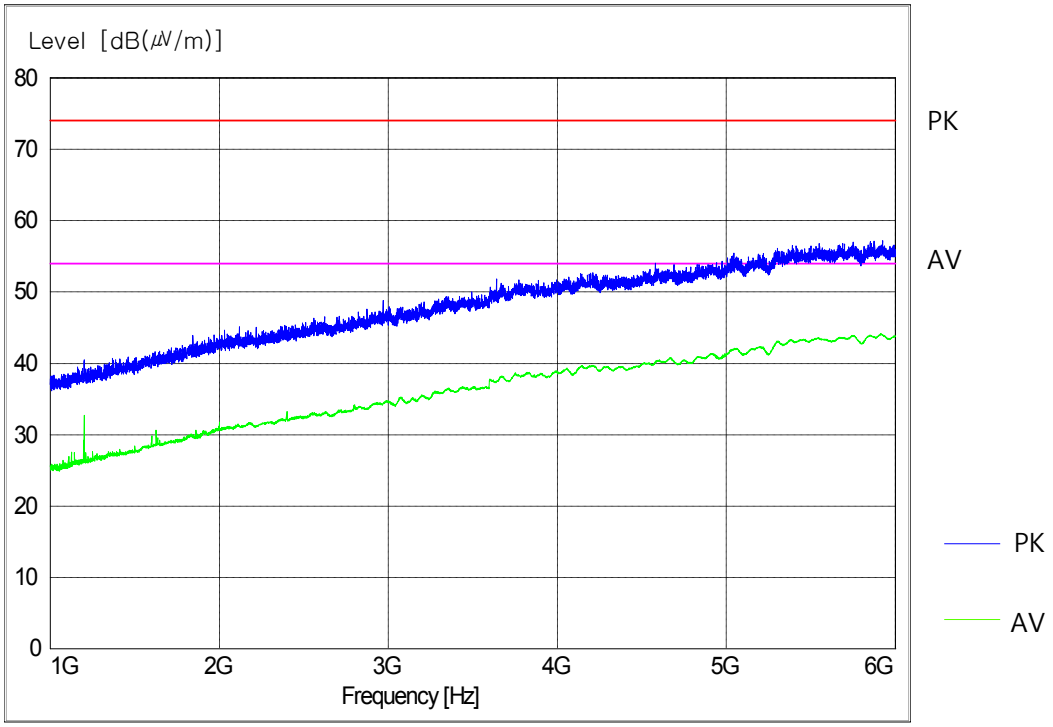


TEST DISTANCE	3 m	6 dB BANDWIDTH	1 MHz
DATE OF TEST	2012.09.03	TEST MODE	Mode 3

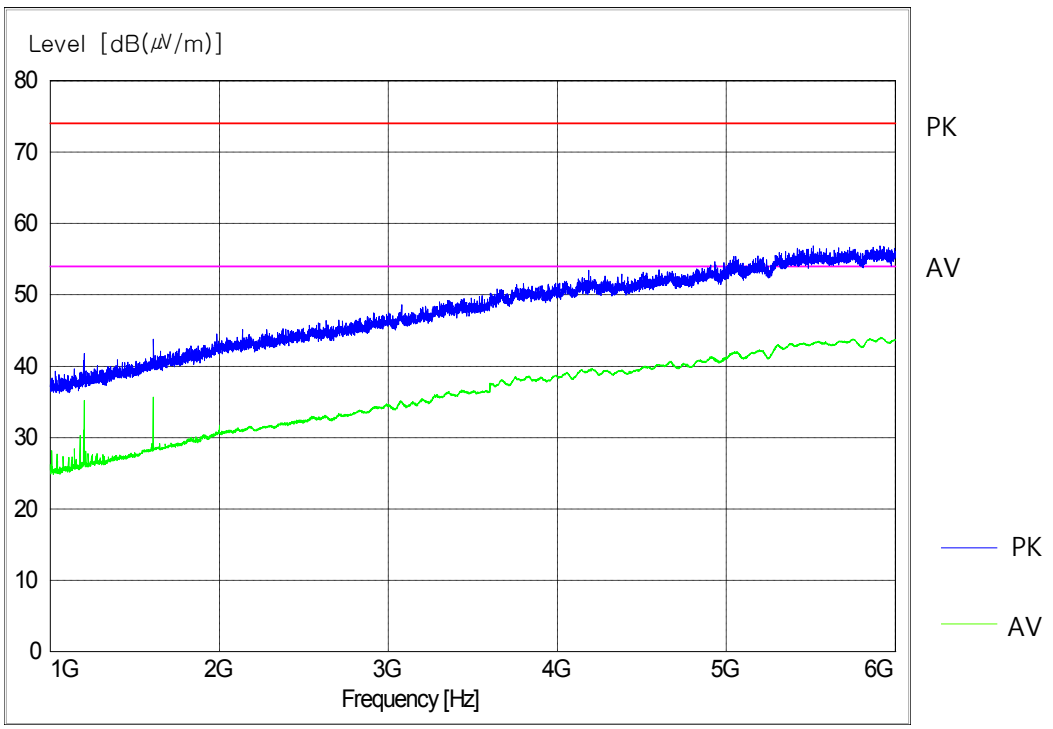
Freq. [GHz]	Read Level [dB(μV)]		Pol.*	Ant. Height [m]	Table Angle (°)	Correction Factor*			Limit [dB(μV/m)]		Level [dB(μV/m)]*	
	Peak	AV				Ant. [dB/m]	Cable [dB]	Amp [dB]	Peak	AV	Peak	AV
1.19999	57.15	48.37	V	1.18	182	24.81	6.69	-44.94	74	54	43.71	34.93
1.60850	54.39	46.29	V	1.00	0	26.20	7.79	-44.61			43.77	35.67

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB] + Amp [dB]

- HORIZONTAL (Mode 3)



- VERTICAL (Mode 3)

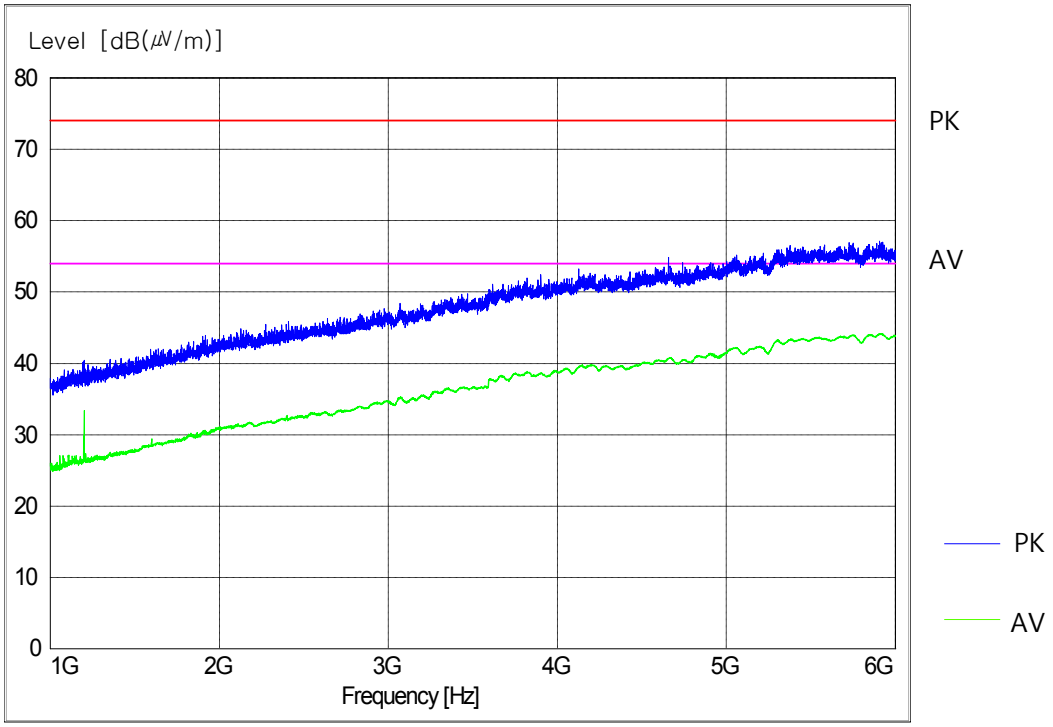


TEST DISTANCE	3 m	6 dB BANDWIDTH	1 MHz
DATE OF TEST	2012.05.17	TEST MODE	Mode 4

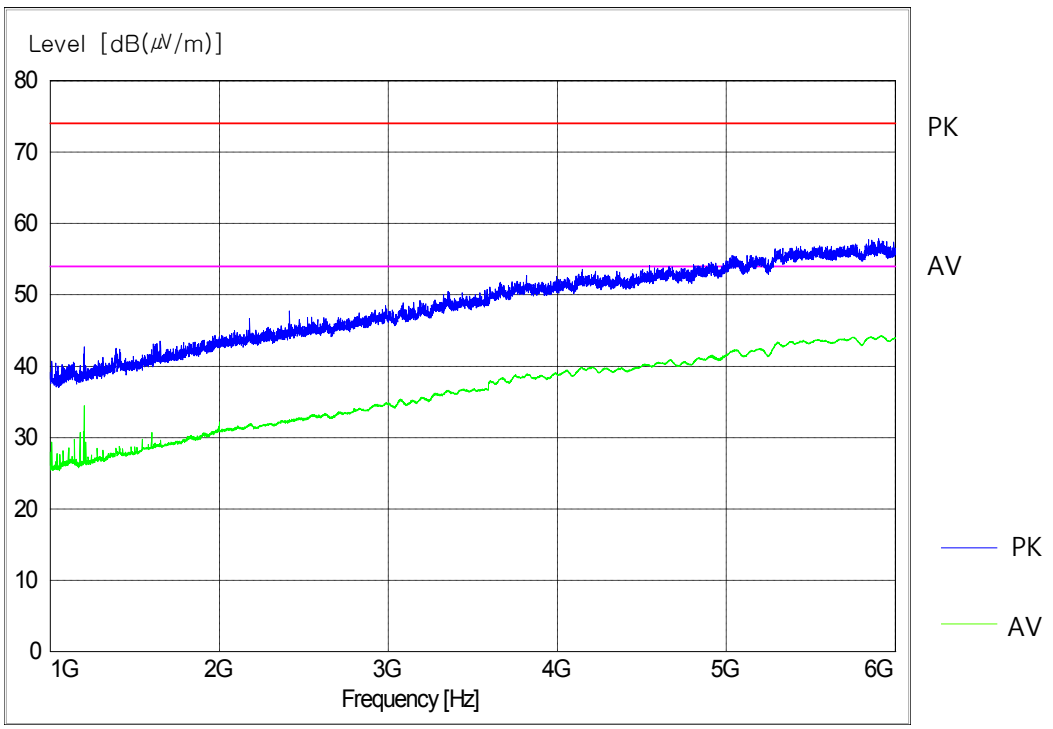
Freq. [GHz]	Read Level [dB(μV)]		Pol.*	Ant. Height [m]	Table Angle (°)	Correction Factor*			Limit [dB(μV/m)]		Level [dB(μV/m)]*	
	Peak	AV				Ant. [dB/m]	Cable [dB]	Amp [dB]	Peak	AV	Peak	AV
1.19999	58.94	48.99	V	1.00	175	24.82	6.70	-46.04	74	54	44.42	34.47

* Polarization (Pol.): H = Horizontal, V = Vertical
* Level [dB(μV/m)] = Read Level [dB(μV)] + Correction Factor [dB/m]
* Correction Factor [dB/m] = Antenna Factor [dB/m] + Cable Factor [dB] + Amp [dB]

- HORIZONTAL (Mode 4)



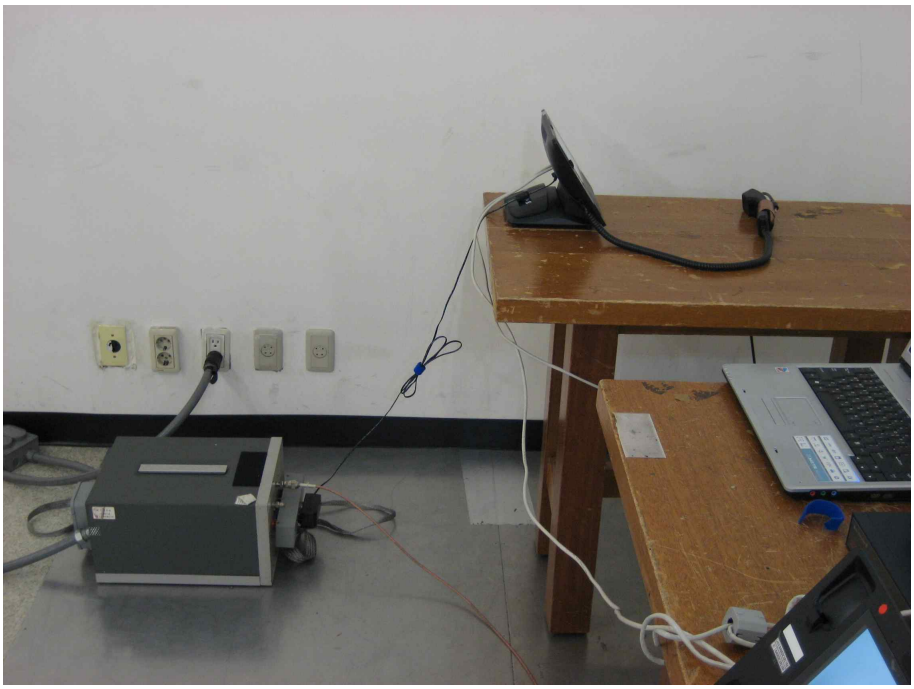
- VERTICAL (Mode 4)



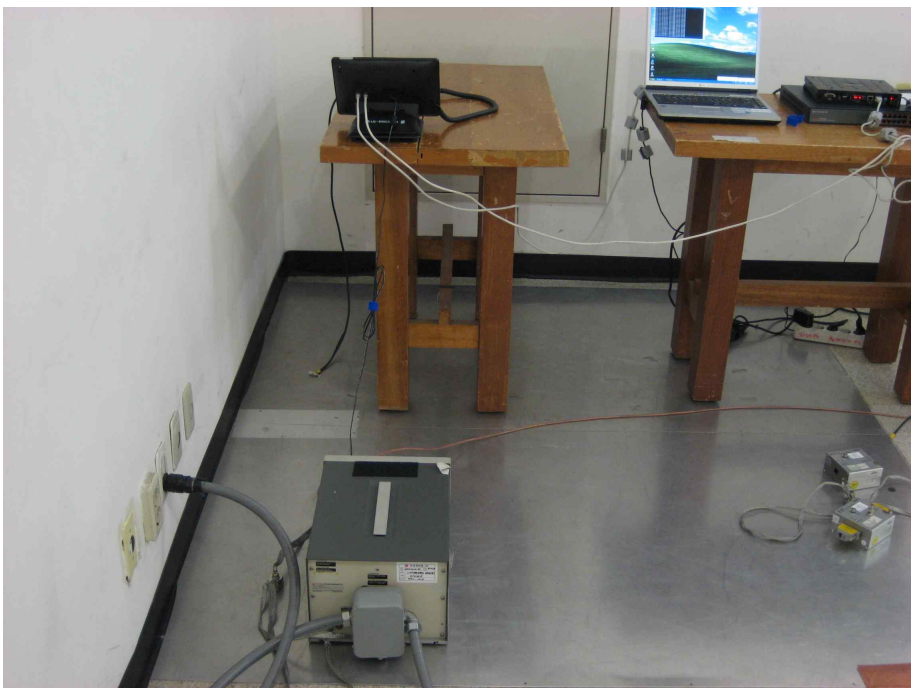
4.0 PHOTOGRAPHS OF THE TEST CONFIGURATION

4.1 POWER-LINE CONDUCTED EMISSION

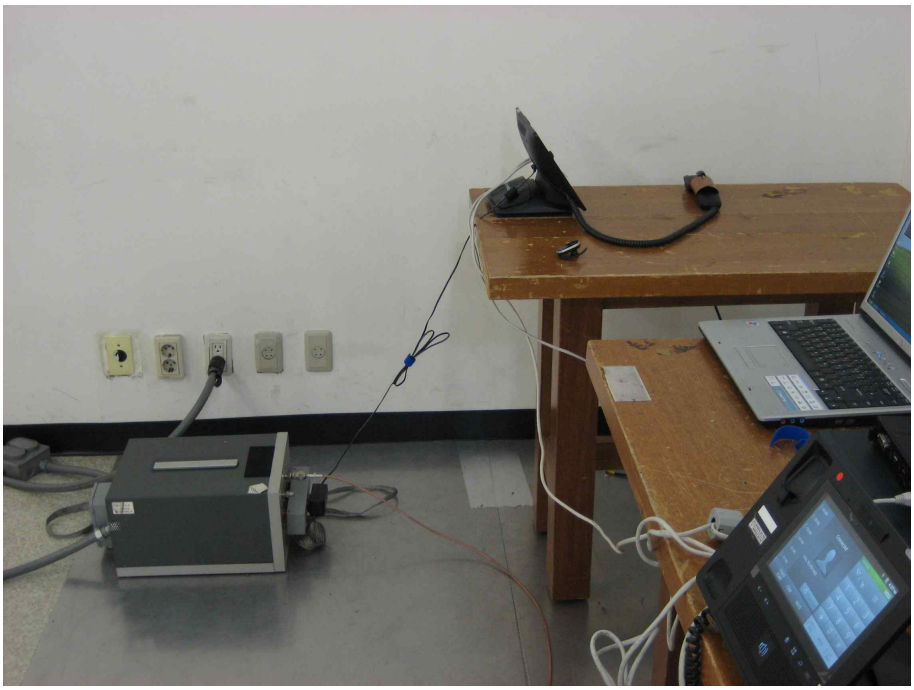
- Mode 1_Front



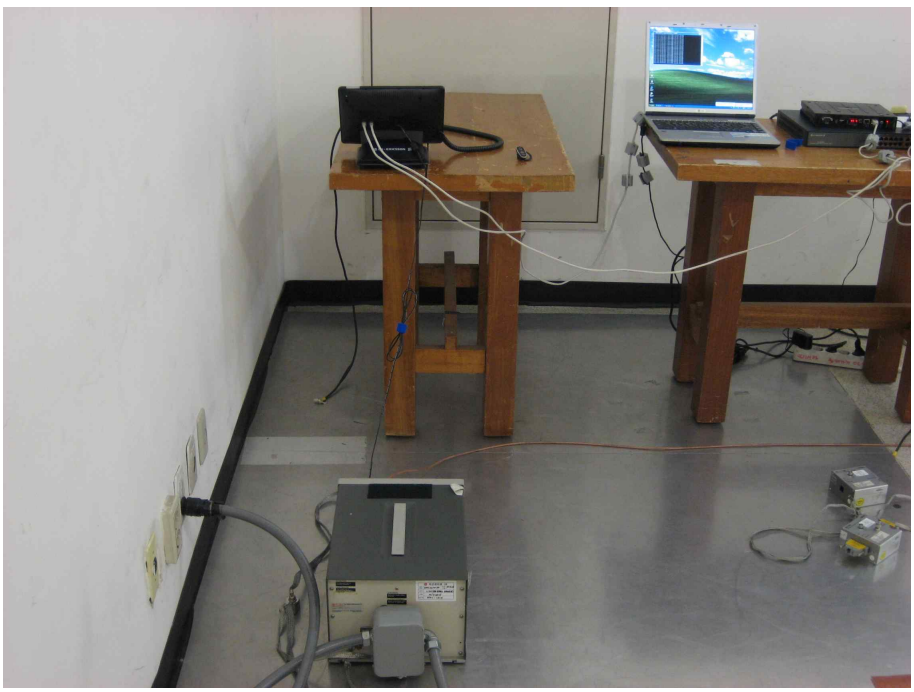
- Mode 1_Rear



- Mode 3_Front

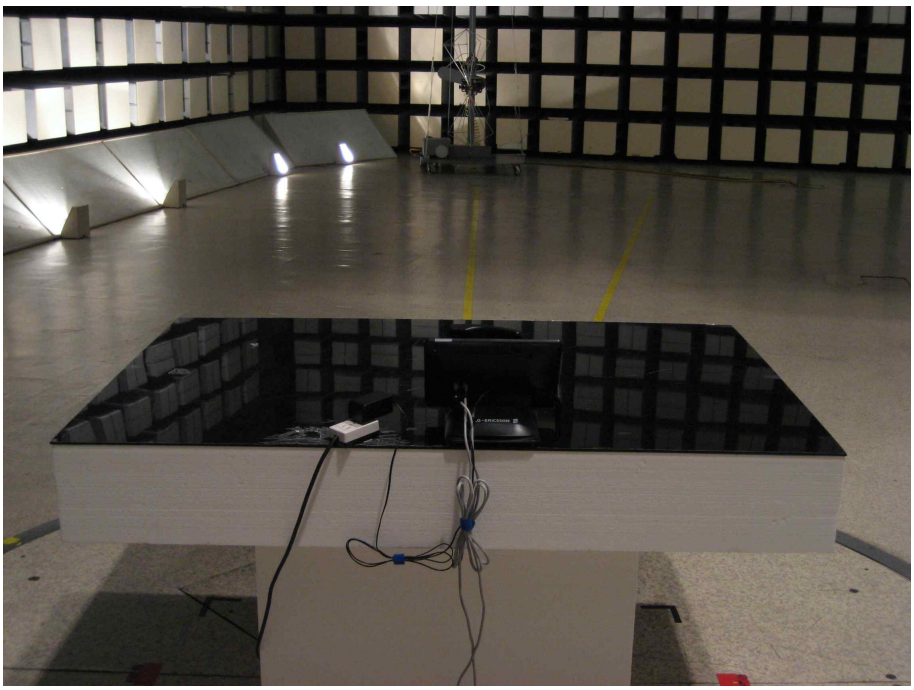


- Mode 3_Rear

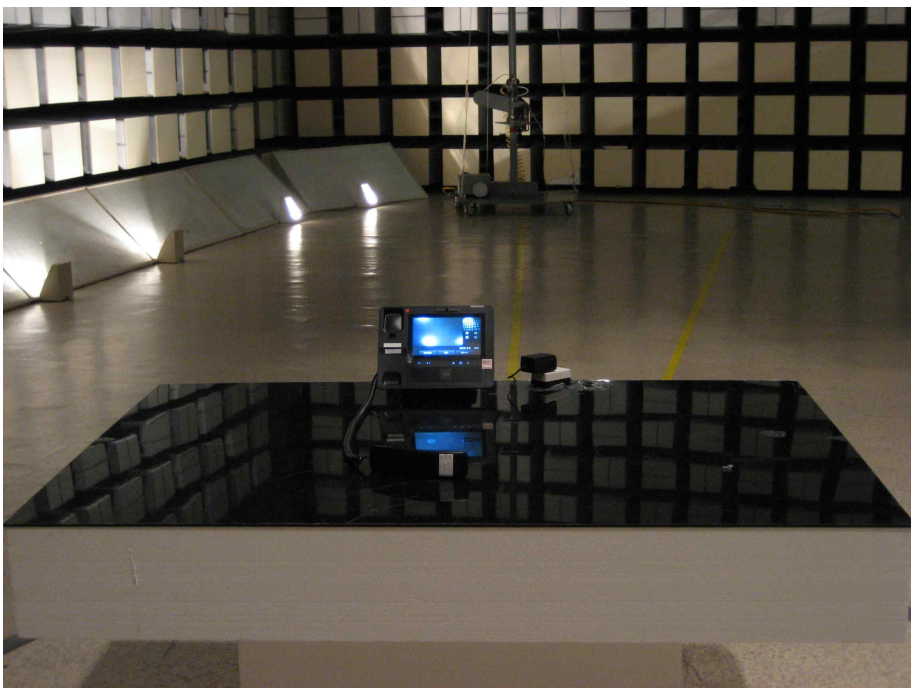


4.2 RADIATED EMISSION (BELOW 1 GHz)

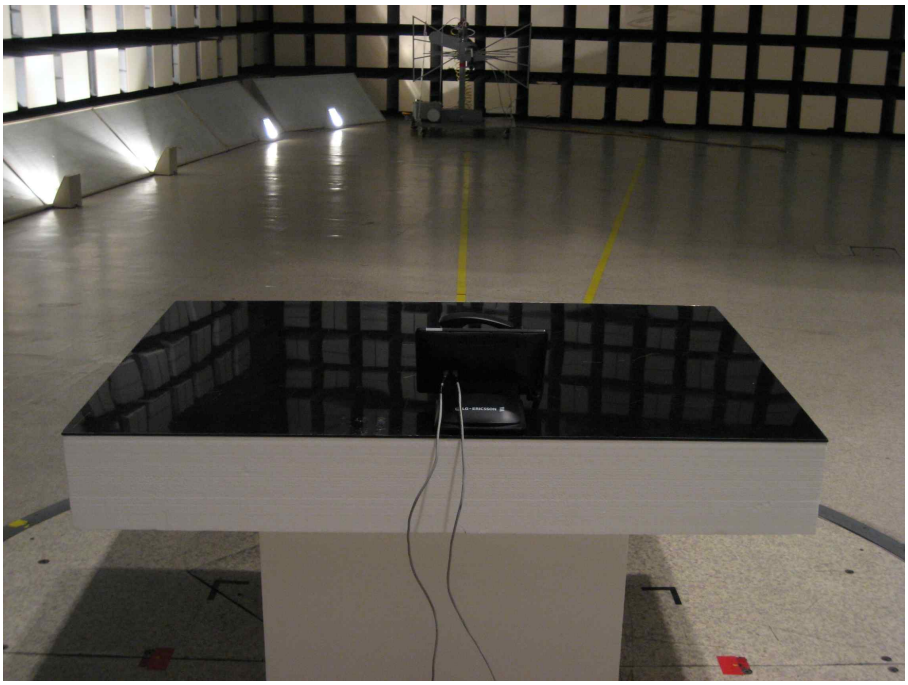
- Mode 1_Front



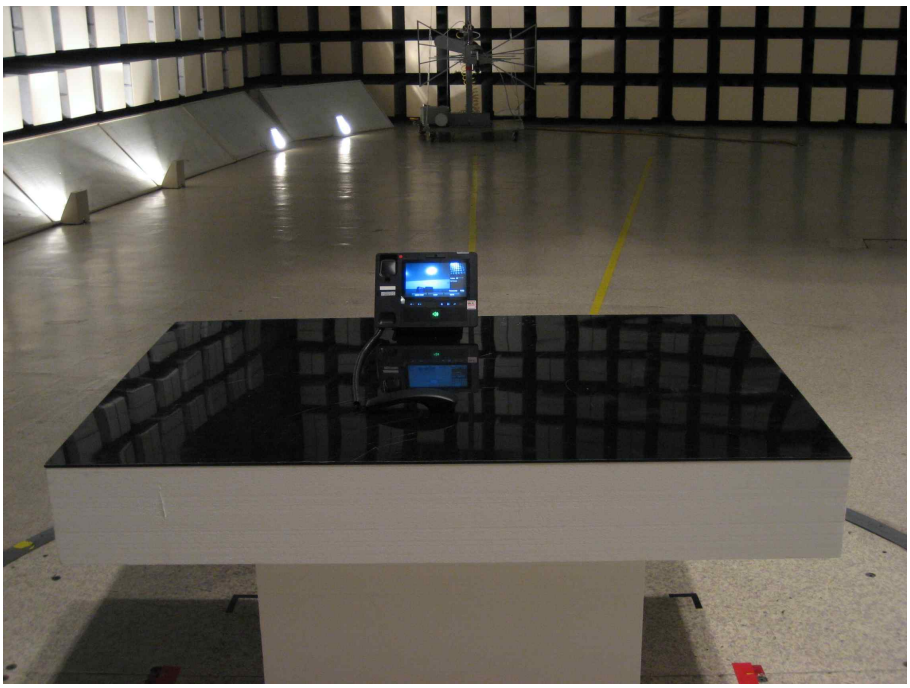
- Mode 1_Rear



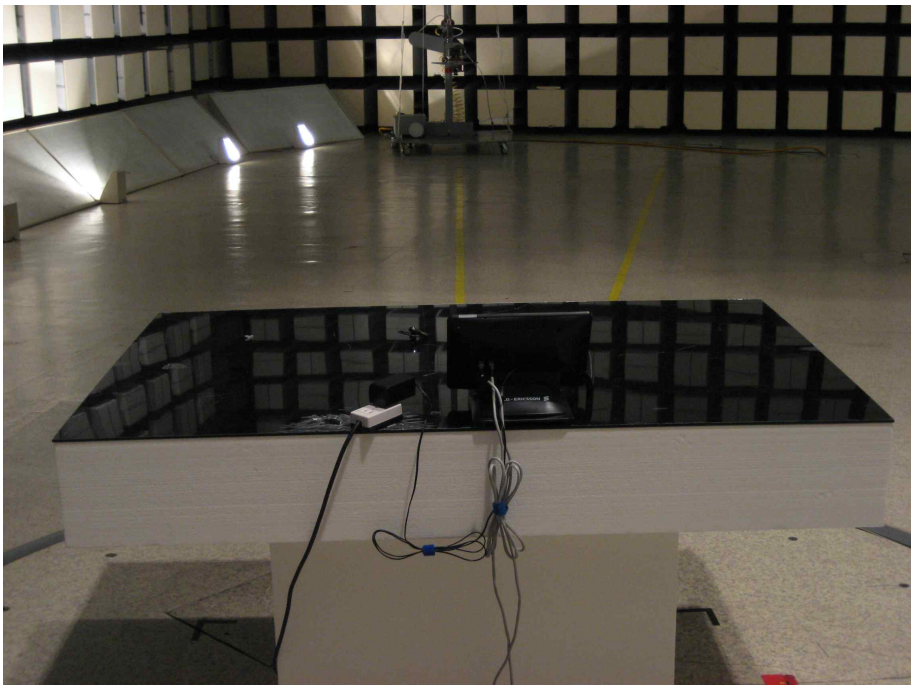
- Mode 2_Front



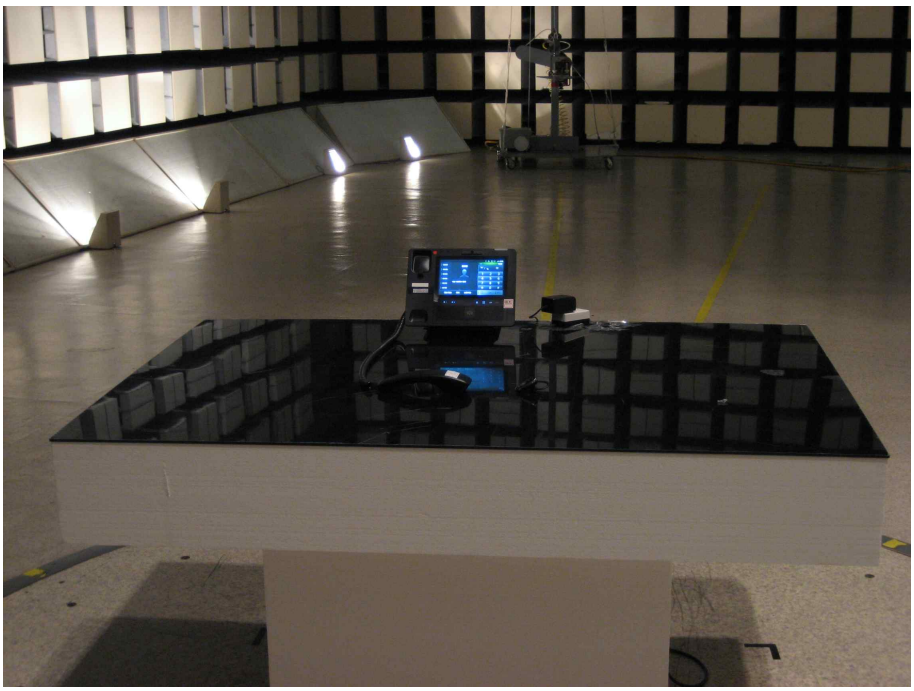
- Mode 2_Rear



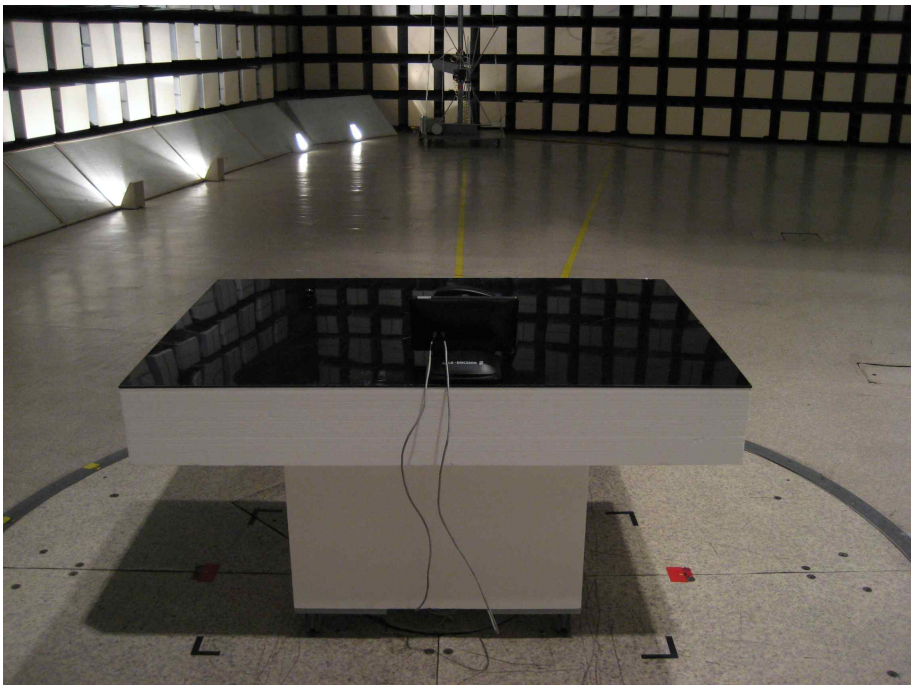
- Mode 3_Front



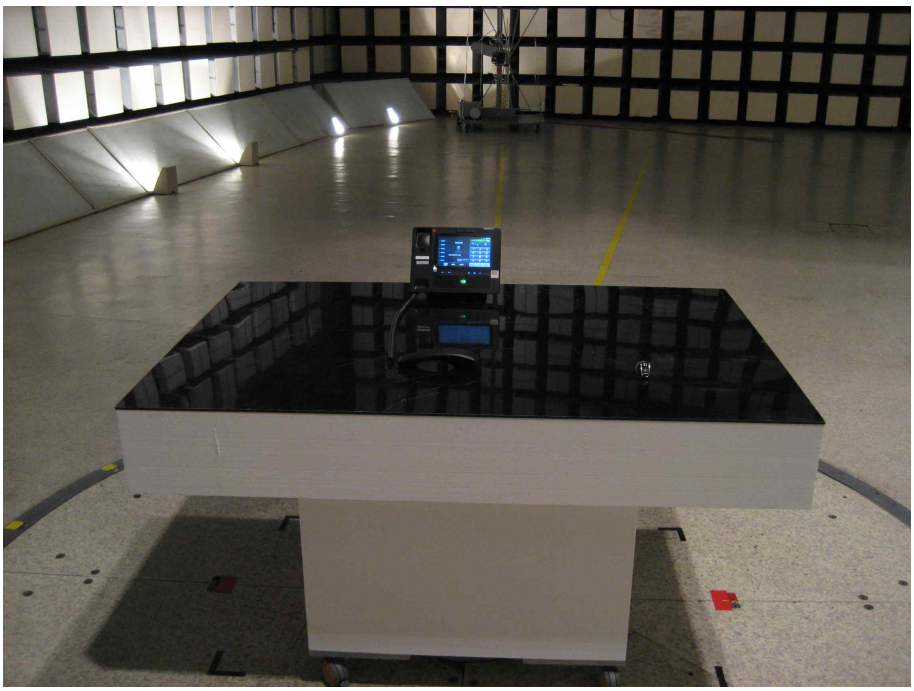
- Mode 3_Rear



- Mode 4_Front

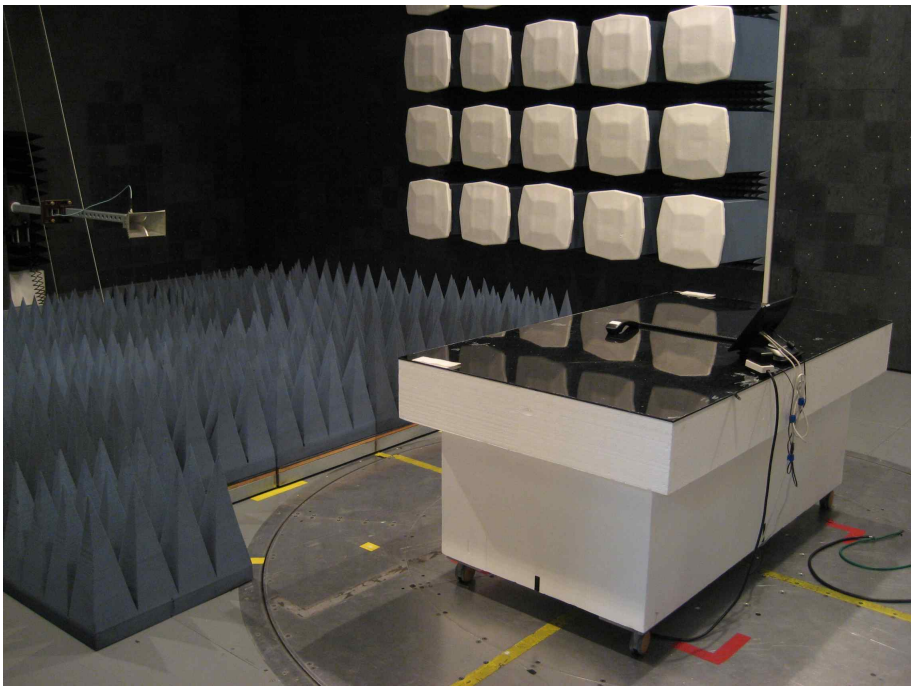


- Mode 4_Rear

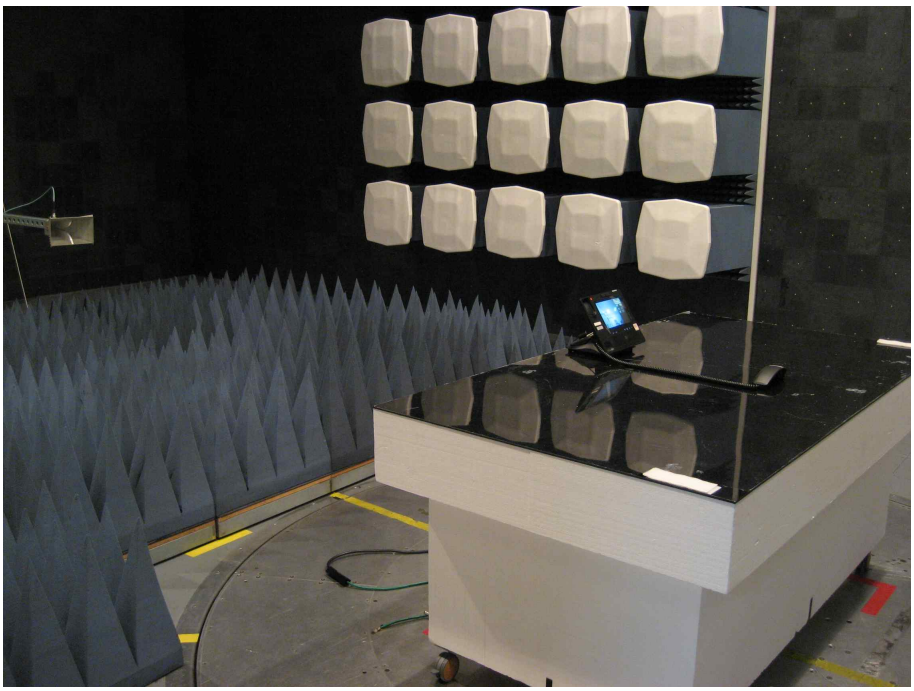


4.3 RADIATED EMISSION (ABOVE 1 GHz)

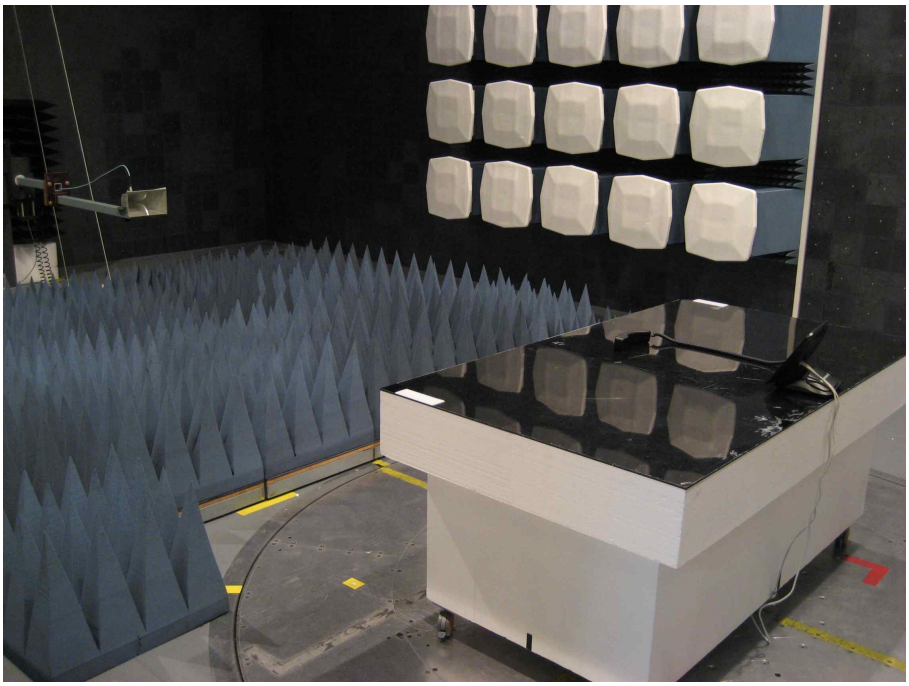
- Mode 1_Front



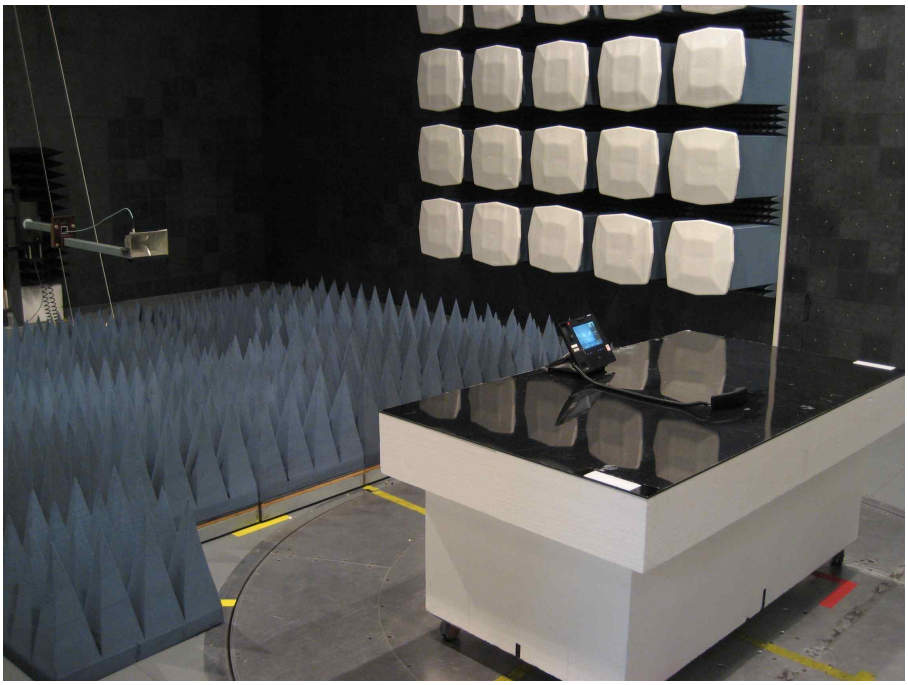
- Mode 1_Rear



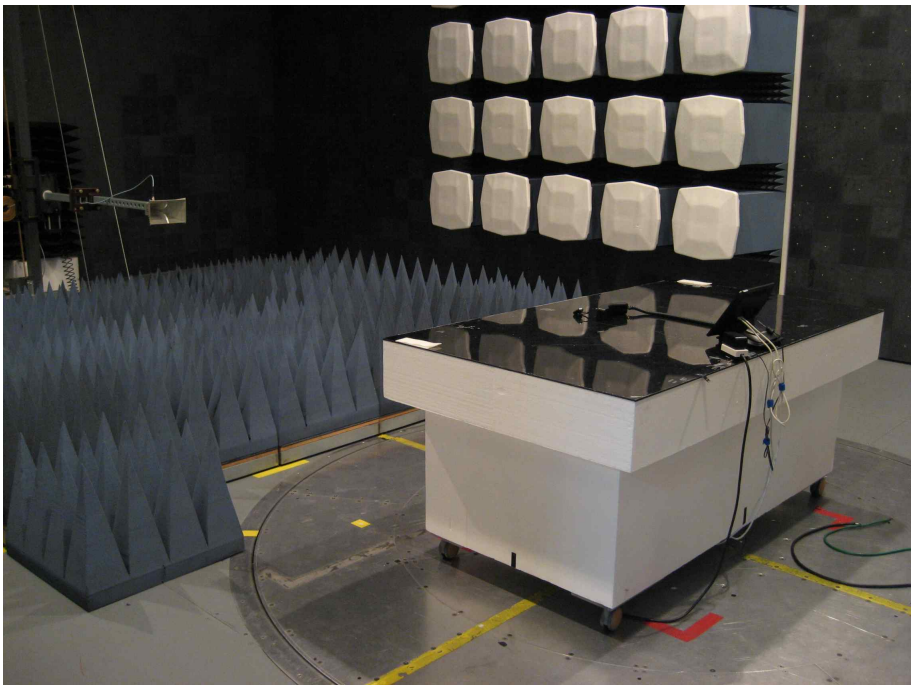
- Mode 2_Front



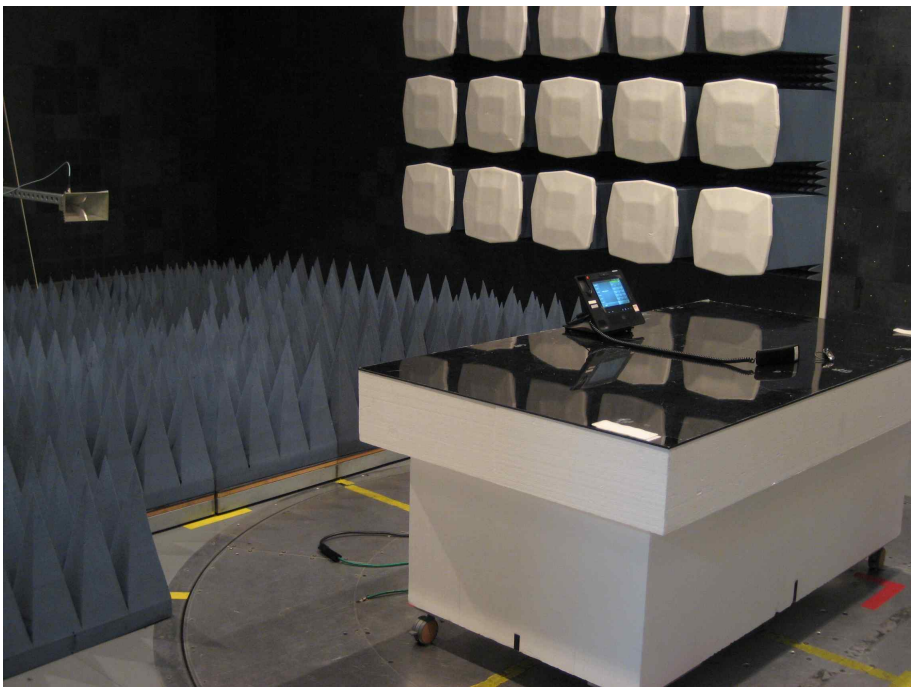
- Mode 2_Rear



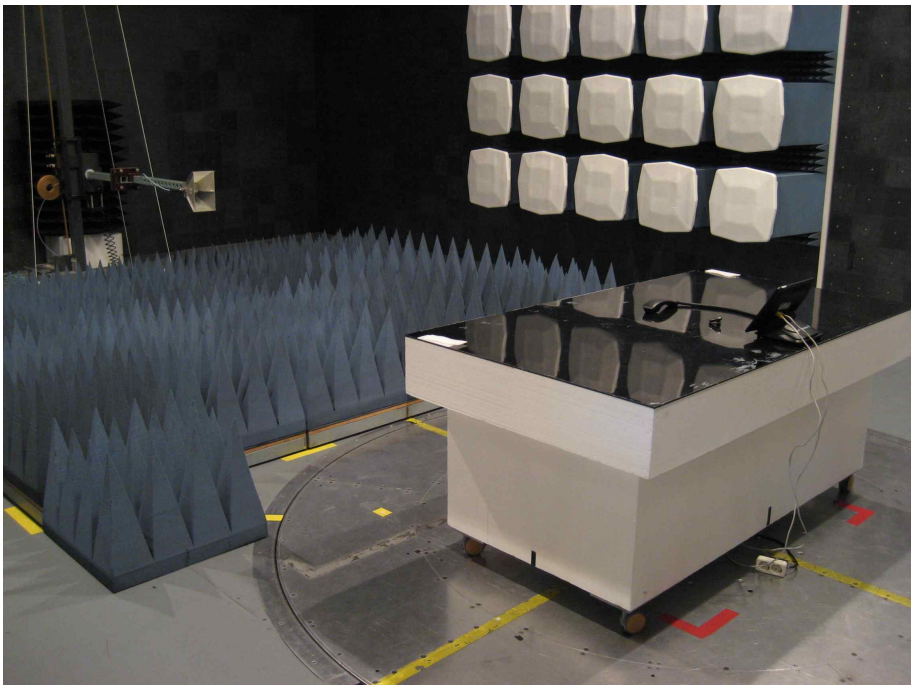
- Mode 3_Front



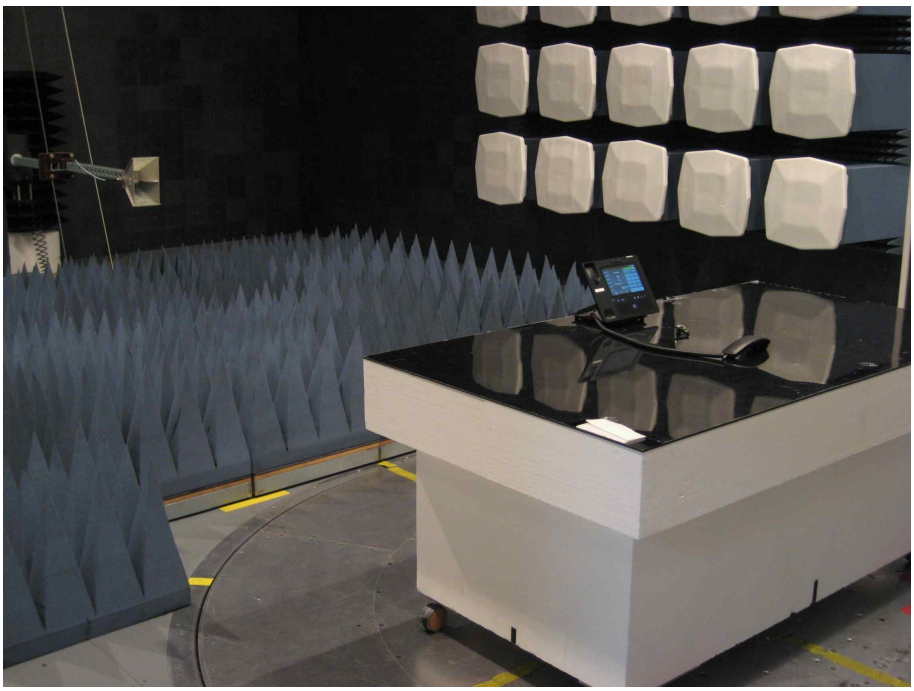
- Mode 3_Rear



- Mode 4_Front



- Mode 4_Rear



5.0 PHOTOGRAPHS OF EUT

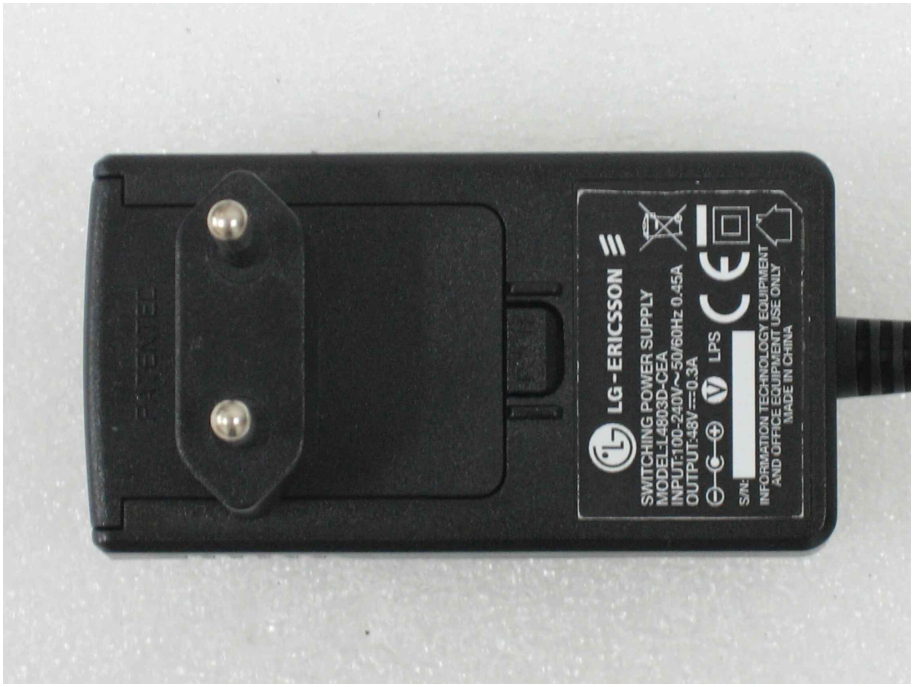
- FRONT

- REAR

- INSIDE

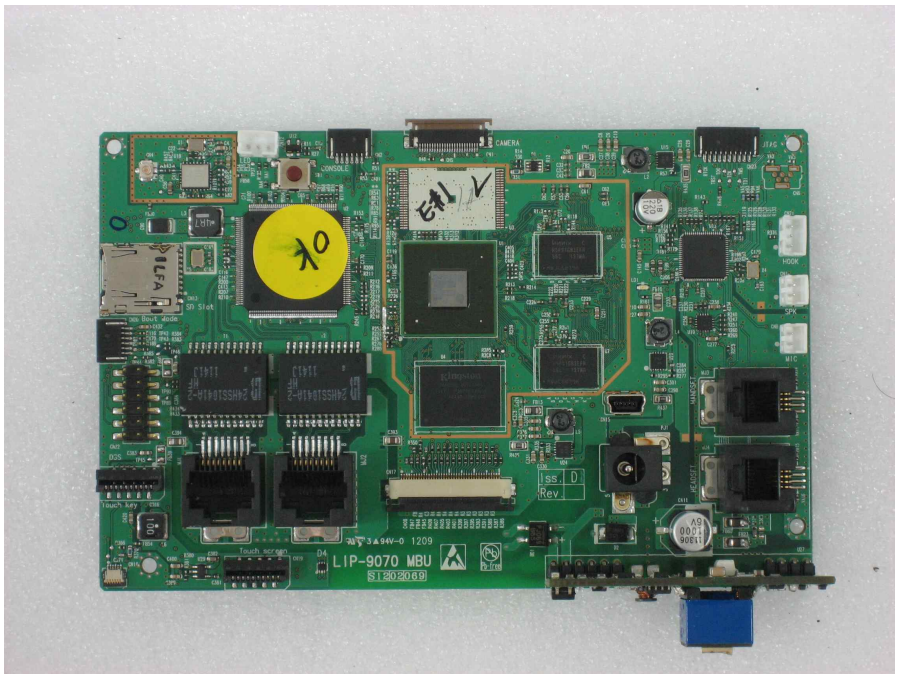
- PORT

- ADAPTOR

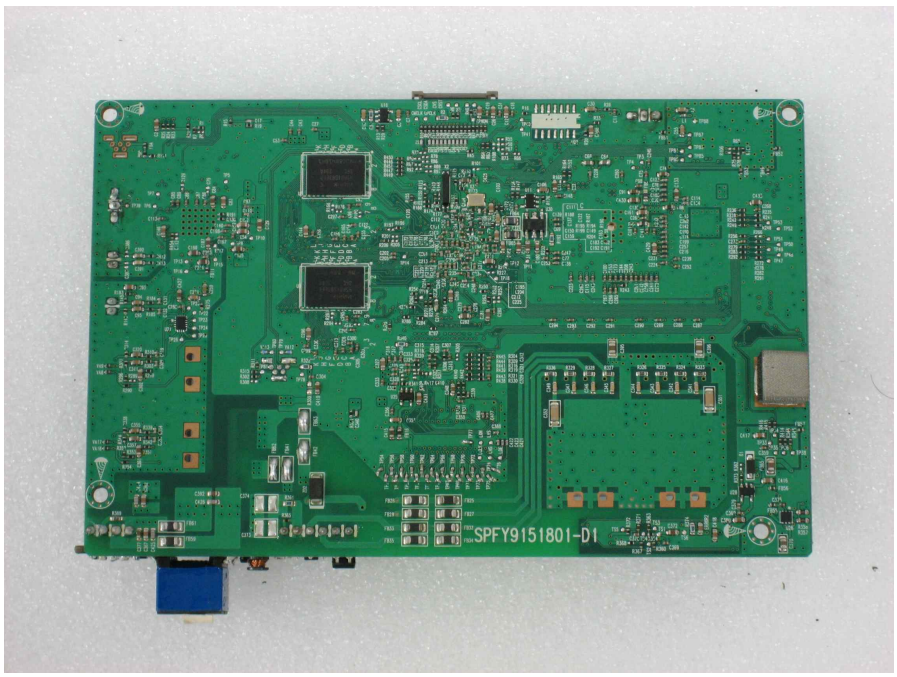


- LABEL

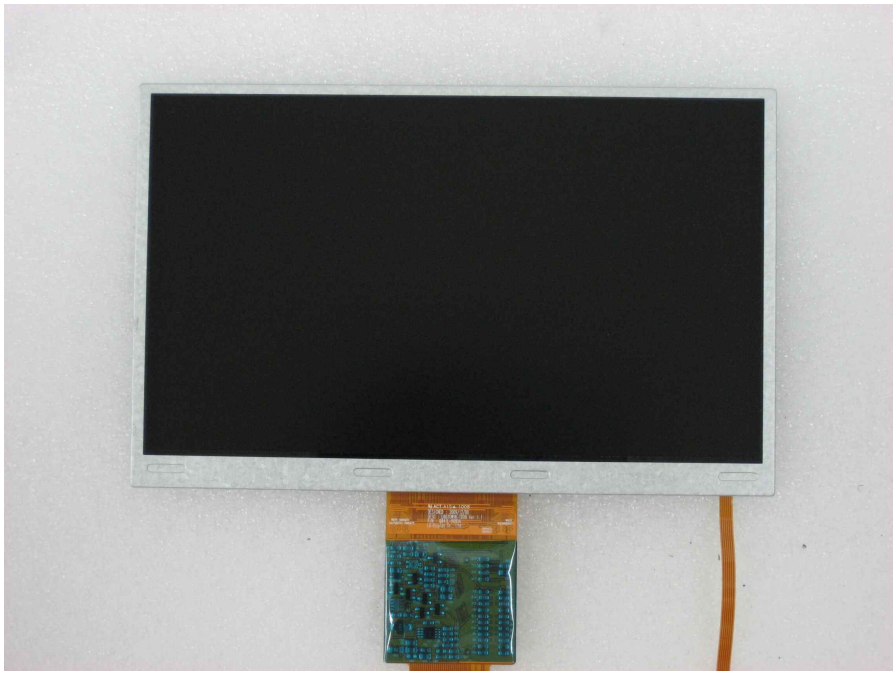
- MAIN_BOARD_FRONT



- MAIN_BOARD_REAR

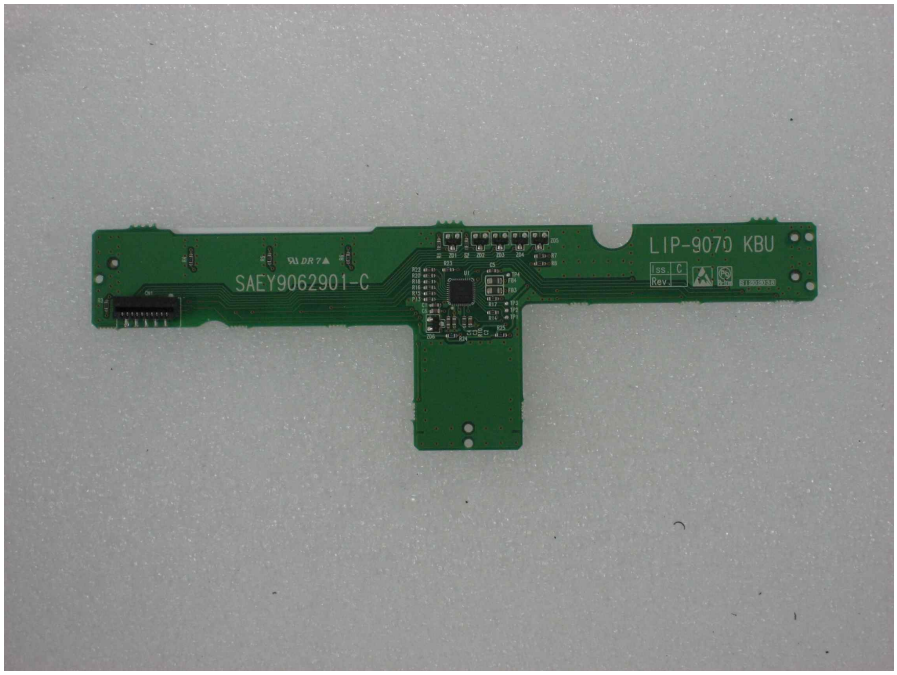


- LCD_FRONT

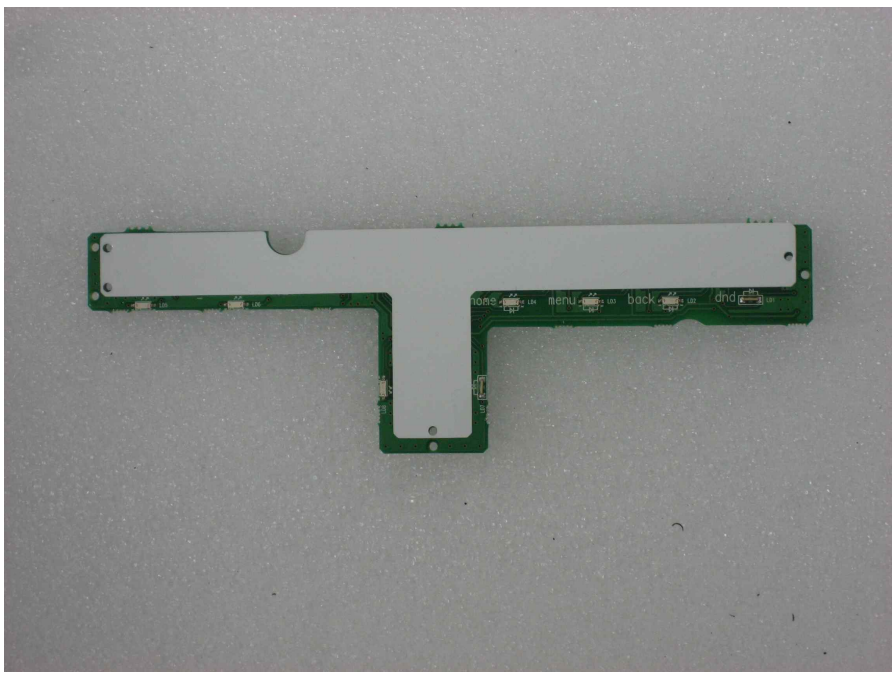


- LCD_REAR

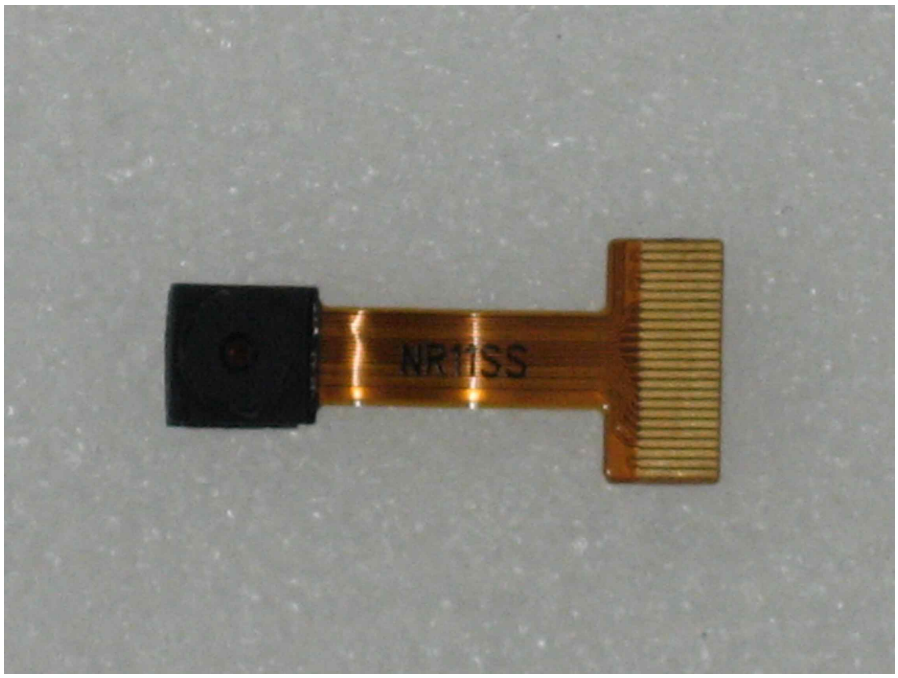
- Key Pad_FRONT



- Key Pad_REAR



- Camera_FRONT



- Camera_REAR