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Project: 10CA46552

File: TC8352

Report: 10CA46552-FCC

Date: October 13, 2010

Model: EX190W (Basic), RadiForce EX190W

FCC Test Report

For

Color LCD Monitor

FCC Certification Part 15 Subpart B Class B

EIZO NANA CORPORATION
153 Shimokashiwano, Hakusan, Ishikawa 924-8566 Japan

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Summary of Test Results:

The following tests were performed on a sample submitted for evaluation of compliance with 47CFR Part 15.107(a) / 47CFR Part 15.109(g)				
Test #	Test Name Test Requirement/Specification	Compliant	Not Compliant	See Remark
1	AC Power line Conducted Emission Test	X	-	-
2	Radiated Emission Test	X	-	-

Conclusion:

The tests listed in the Summary of Testing section of this report have been performed as a witness testing and the results recorded by UL Korea Ltd. in accordance with the procedures stated in each test requirement and specification. The test list was determined by the Applicant as being applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

The equipment under test has

- ☒ Met the technical requirements
☐ Not met the technical requirements



Tested by
 Sung Hoon Baek, Project Engineer
 Conformity Assessment Services – 3014ASEO
 UL Korea Ltd.
 October 13, 2010



Reviewed by
 Jea Woon Choi, Senior Project Engineer
 Conformity Assessment Services – 3014ASEO
 UL Korea Ltd.
 October 13, 2010

Test Report Details

Tests Performed By: UL Korea Ltd.
33rd FL. GFC Bldg. 737 Yeoksam-dong,
Kangnam-ku, Seoul, 135-984, Korea

Test Site: CHUNGBUK TECHNOPARK
685-3 Yangcheong-ri, Ochang-eub, Cheongwon-kun, Chungbuk-province, Republic of Korea
The test facility was deemed to have the environment and capabilities necessary to perform the tests included in the test package.


Applicant: EIZO NANA CORPORATION
153 Shimokashiwano, Hakusan, Ishikawa 924-8566 Japan

Manufacturer: EIZO NANA CORPORATION
153 Shimokashiwano, Hakusan, Ishikawa 924-8566 Japan

Factory: D&T Inc.
59-9 JANG-DONG, YUSEONG-GU, DAEJEON 305-343 KOREA

Applicant Contact: Wataru Takashima
Title: Manager
Phone: +81-76-277-6794
E-mail: takasima@eizo.co.jp

Product Type: Color LCD Monitor

Trademark: 

Model Number: EX190W
Multilisting model number: RadiForce EX190W
The manufacturer has declared to all the multiple model names into the basic model without any further evaluation by UL.

FCC ID: GCJEX190W

Product standards: FCC Part 15 Subpart B Class B

Sample Serial Number: N/A

Sample Receive Date: January 29, 2010

Testing Start Date: January 29, 2010

Date Testing Complete: May 06, 2010

Test Report Date: October 13, 2010

Overall Results: Pass

UL Korea Ltd. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL Korea Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL Korea Ltd. issued reports.

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1. GENERAL PRODUCT DESCRIPTION

1.1 Report Revision History

Revision Date	Description	Remarks	Revision reviewed By
-	Original Report	-	-

1.2 Equipment Description

Description:
The EX190W is intended for use by general surgeons, gynecologists, urologists, thoracic, orthopedic, ENT, and plastic surgeons adequately trained in these surgical procedures.

1.3 Details of Test Equipment (EUT)

Equipment Configuration:				
No.	Product Type	Manufacturer	Model	Comments
1	19" LCD COLOR MEDICAL MONITOR	EIZO NANA CORPORATION	EX190W	-
2	AC/DC Adapter	BridgePower Corp.	JMW1100KA1800F**	1 EA
3	DC Extension Cable	BridgePower Corp.	CB-1501047004	5 ft
4	DC Extension Cable	BridgePower Corp.	CB-1501047005	15 ft
5	DC Extension Cable	BridgePower Corp.	CB-1501047006	75 ft
6	DVI-D cable	-	-	1 EA
7	HD15 VGA cable	-	-	1 EA
8	Hospital-grade AC power cord	-	-	1 EA
9	Composite Video BNC Jack Cable	-	-	1 EA
10	Super Video Cable	-	-	1 EA

1.4 Technical Data

Item	Description
LCD Panel	19 TFT LCD Panel
Resolution	1680 x 1050 @ 60Hz
Input Signal (Analog & Digital)	DVI, HD15, SD/HD-SDI 1 and 2, Component Y/G, Pb/B, Pr/R, H/CS, VS, C-Video and S-Video
Display Size	16.1 x 10.1 (409.5mm x 255.94mm)
Power Source	Display Monitor: DC 18V 6.67A
	AC-Adapter: AC100~240V 50/60Hz, 1.4~0.6A

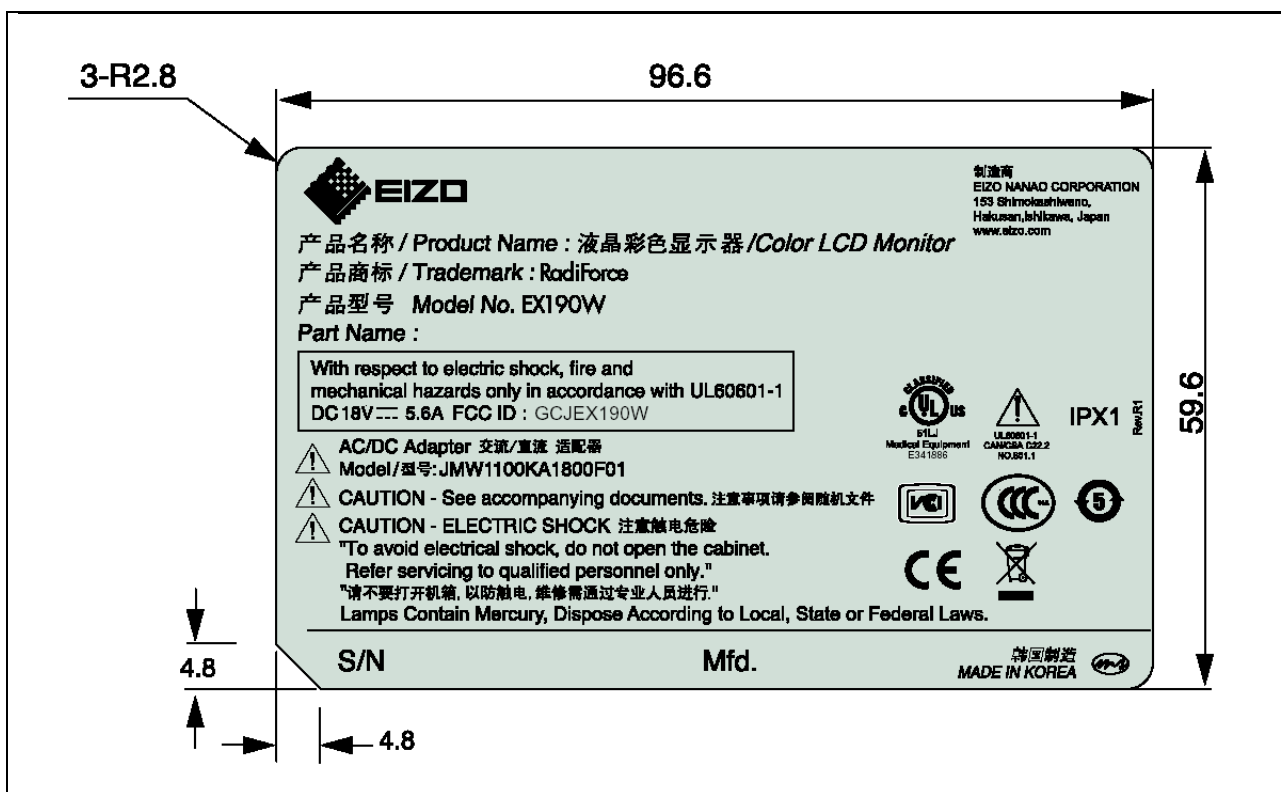
1.5 EUT Internal operating frequency

Frequency (MHz)	Description	Frequency (MHz)	Description
324.00 MHz	Memory Clock	27.000 MHz	System Clock
119.8 MHz	Display Clock	28.322 MHz	System Clock

1.6 Technical descriptions and documents

No.	Document Title and Description
1	EX190W User Manual
Note: The manufacturer provided the following document.	

1.7 Equipment Marking Plate



2. TEST CONDITION

2.1 Equipment Used During Test:

Use*	Product Type	Manufacturer	Model	Comments
EUT	19" Color LCD Monitor	EIZO NANA CORPORATION	EX190W	-
EUT	AC/DC Adapter	BridgePower Corp.	JMW1100KA1800F**	-
EUT	D.C. Extension Cable	BridgePower Corp.	CB-1501047004	5ft
EUT	D.C. Extension Cable	BridgePower Corp.	CB-1501047005	15ft
EUT	D.C. Extension Cable	BridgePower Corp.	CB-1501047006	75ft
AE	PC	DELL	OPTIPLEX 755	
AE	Headset	PILLAR	CH-1700	-
AE	Printer	SAMSUNG	ML-2250G	-
AE	USB mouse	LOGITECH	M-BJ58	-
AE	USB Keyboard	DELL	L30U	-
AE	Video Signal Generator	Quantum data	881	Used for SDI mode
AE	Pattern generator	Chroma	22291	Used for C-video, S-Video, Component mode
AE	LCD Monitor	EIZO NANA CORPORATION	EX190W	Used for External monitor
AE	AC/DC Adapter	BridgePower Corp.	JMW1100KA1800F**	Connected with External monitor

* **Note:** EUT -Equipment Under Test, AE -Auxiliary/Associated Equipment, SIM -Simulator (Not Subjected to Test)

2.2 Power Interface:

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Comments
Rated	100-240 Vac	2.0 A	-	50-60	-
1	120 V	-	-	60	-

2.3 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Mains	AC	1.8 m	Unshielded	Hospital-grade AC power cord
2	DVI In	I/O	1.8 m	Shielded	24 pin DVI-D
3	VGA In	I/O	1.8 m	Shielded	15 pin D-Sub
4	SDI In, Out	I/O	1.8 m	Shielded	BNC
5	S-Video In, Out	I/O	1.8 m	Shielded	S-Video
6	C-Video In, Out	I/O	1.8 m	Shielded	BNC
7	Component In, Out	I/O	1.8 m	Shielded	BNC

Note:

*AC = AC Power Port, DC = DC Power Port, N/E = Non-Electrical, I/O= Signal Input or Output Port (Not Involved in Process Control), TP = Telecommunication Ports.

* RS-232 port is used for service purpose only. No user interface port

2.4 Test Mode of LCD Color Display Monitor for Test:

Mode #	Mode	Comments
1	DVI Mode	-
2	VGA Mode	Worst case condition
3	SDI In/Out Mode	-
4	S-VIDEO In/Out Mode	-
5	C-Video In/Out Mode	-
6	Component In/Out Mode	Worst case condition

Note:

1. All the configuration described above has been investigated during the preliminary testing and selected two cases as worst-case condition for final measurements.
2. EUT have been performed under continuous displaying "H" Patten for configuration modes of 1 to 2.
3. EUT has been performed under continuous displaying "Color Bar" Patten for configuration modes of 3 to 7.

2.5 Test Resolution of LCD Color Display Monitor for Test:

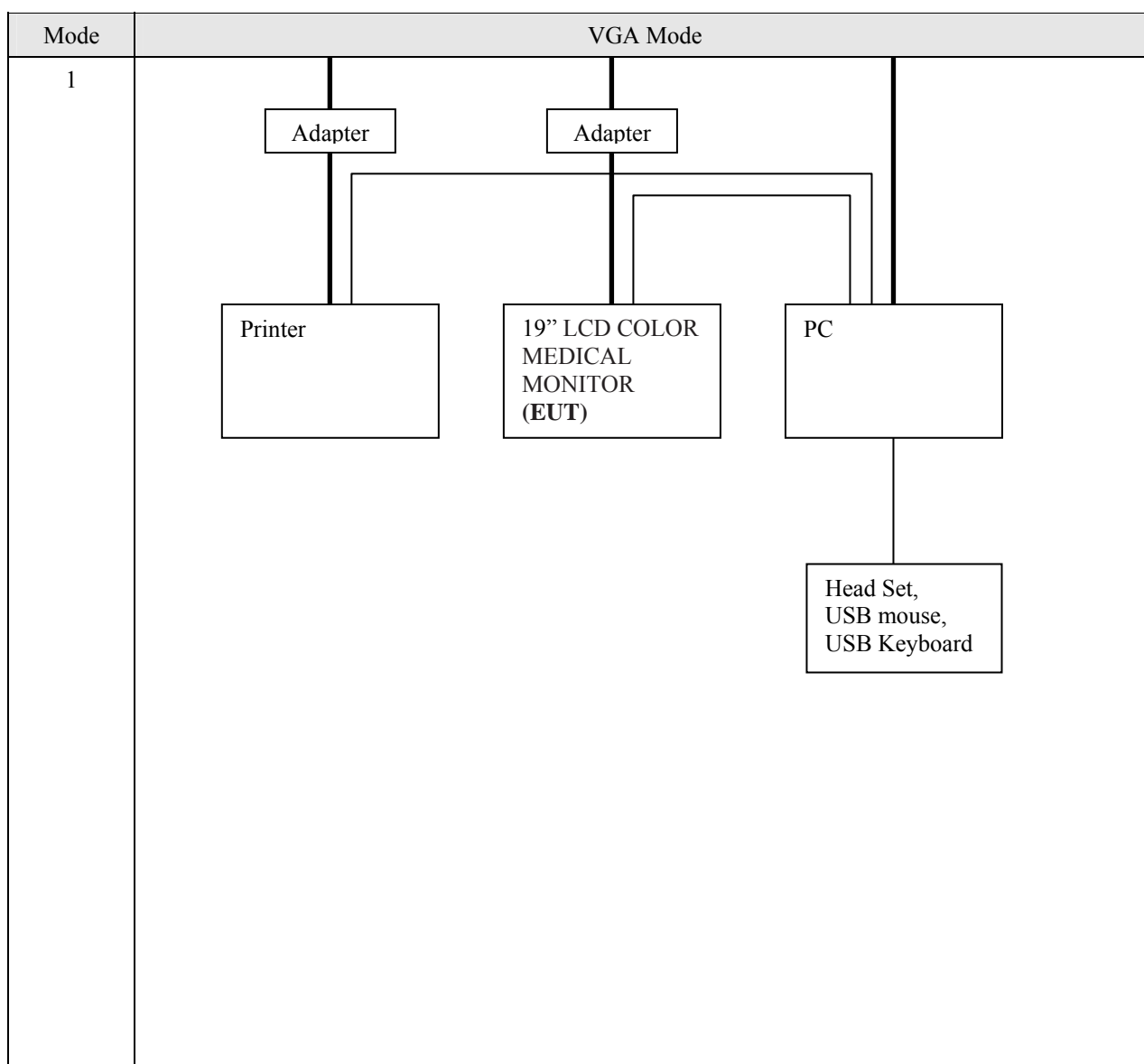
Mode #	Resolution	Comments
1	640 * 480 @ 60Hz	-
2	1024 * 768 @ 60Hz	Worst case condition
3	1600 * 1200 @ 60Hz	-
4	1080i	Worst case condition

Note: Video resolution where it refers from above is representative worst case.

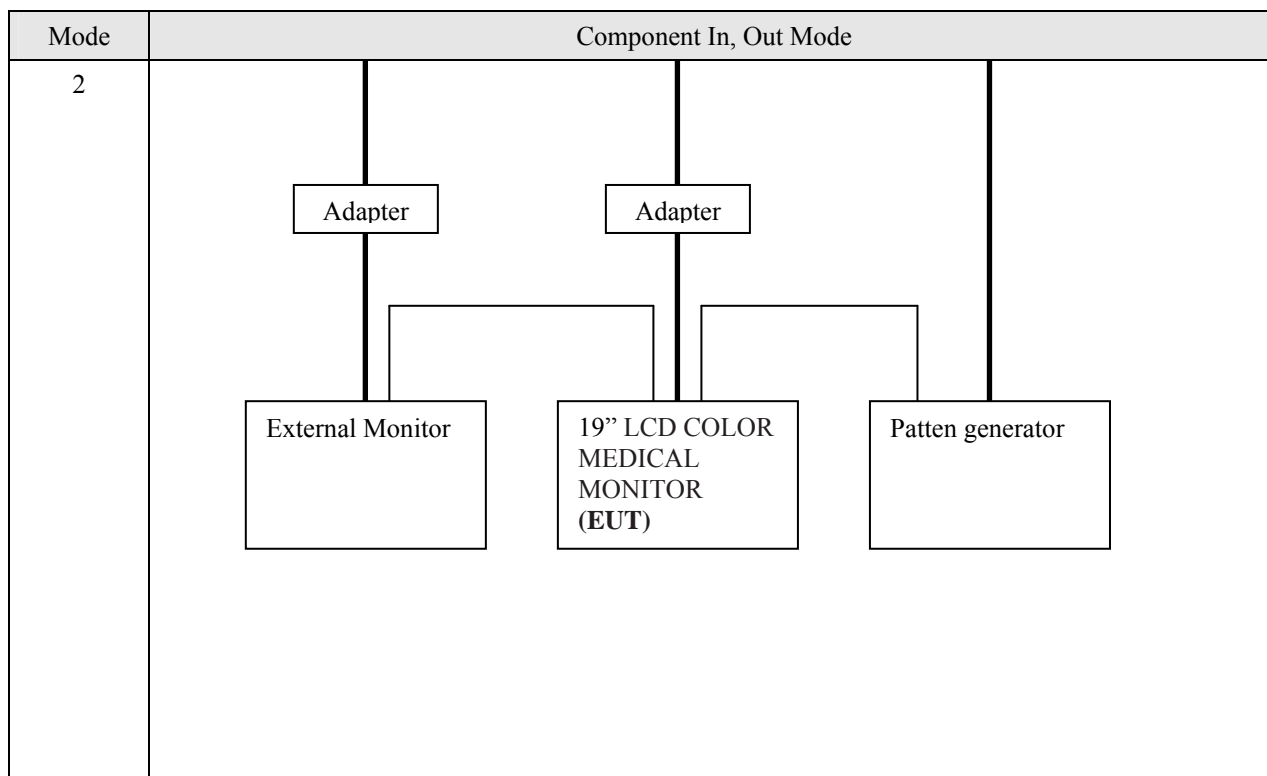
2.6 Used DC extension Cable for Test:

No.	Cable Length	Preliminary Test	Comment
1	5ft	DVI, VGA, SDI, S-Video, C-Video, Component Mode.	-
2	15ft		-
3	75ft		Worst case condition
Note: Radiated emission and conducted emission test were performed for all extension power cable during the preliminary testing and selected worst-case condition for final measurements.			

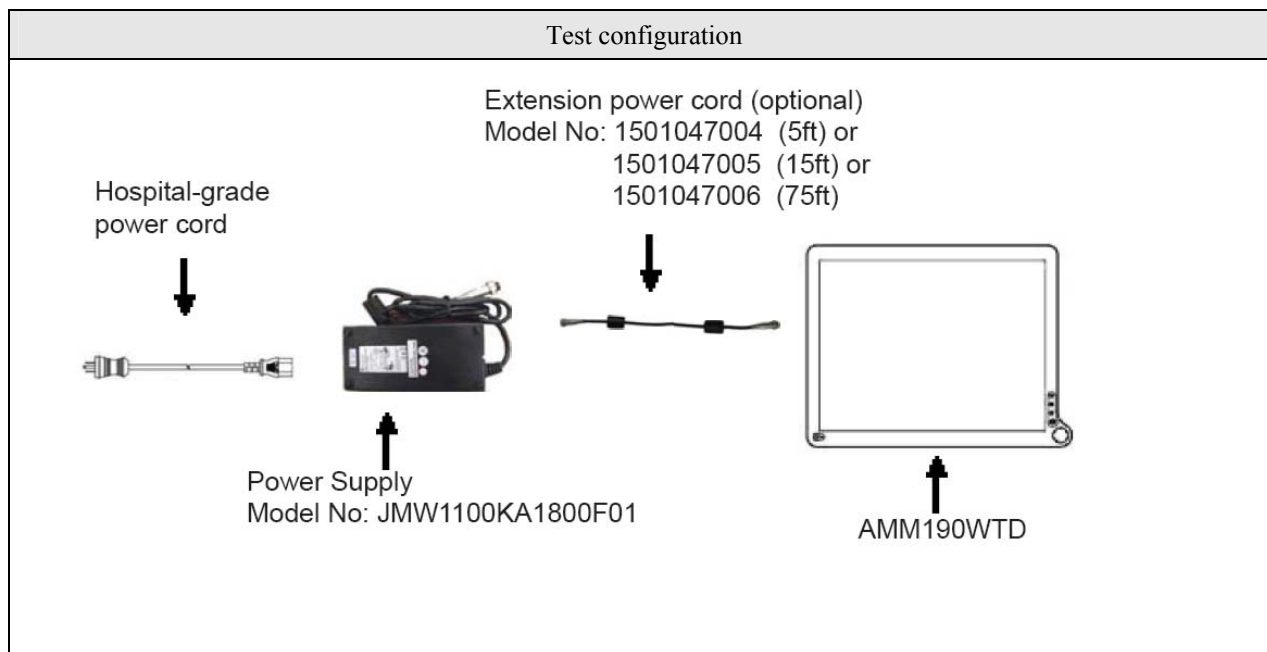
2.7 Test Configuration for VGA Mode:



2.8 Test Configuration for Component In, Out Mode:



2.9 Test configuration of Extension cable:



3. TEST CONDITION AND RESULTS

3.1 Mains Terminal Disturbance Voltage Test

TEST: Limits of mains terminal disturbance voltage				
Method	Measurements were made on a ground plane that extends 1-meter minimum beyond all sides of the system under test. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.			
Parameters recorded during the test		Laboratory Ambient Temperature		18.6 °C
		Relative Humidity		39.1 %
-		Frequency range on each side of line		Measurement Point
Fully configured sample scanned over the following frequency range		150 kHz to 30 MHz		A. C. Input Power port of Adapter.
Limits - Class B				
Frequency (MHz)	Limit (dBμV)			
	Quasi-Peak	Result	Average	Result
0.15 to 0.50	66 to 56	Pass	56 to 46	Pass
0.50 to 5	56	Pass	46	Pass
5 to 30	60	Pass	50	Pass
EUT Configuration Settings:				
Power Interface Mode # (See Section 2.3)		EUT Operation Mode # (See 2.4)		EUT Configurations Mode # (See Section 2.7)
1		2 and 4		1 and 2
Conducted Emissions Test Equipment used:				
Description	Manufacturer	Model	Identifier	Cal. Due
Test Receiver	Rohde & Schwarz	ESPI	101088	2011.04.24
LISN	Rohde & Schwarz	ESH2-Z5	100146	2011.04.24
LISN	Schwarzbeck	NNLK8129	8129162	2011.04.24

Figure 1. Conducted Emission Test Setup



Figure 2. Conducted Emission Test Setup



Figure 3. Graphical representation of conducted emissions, VGA Mode

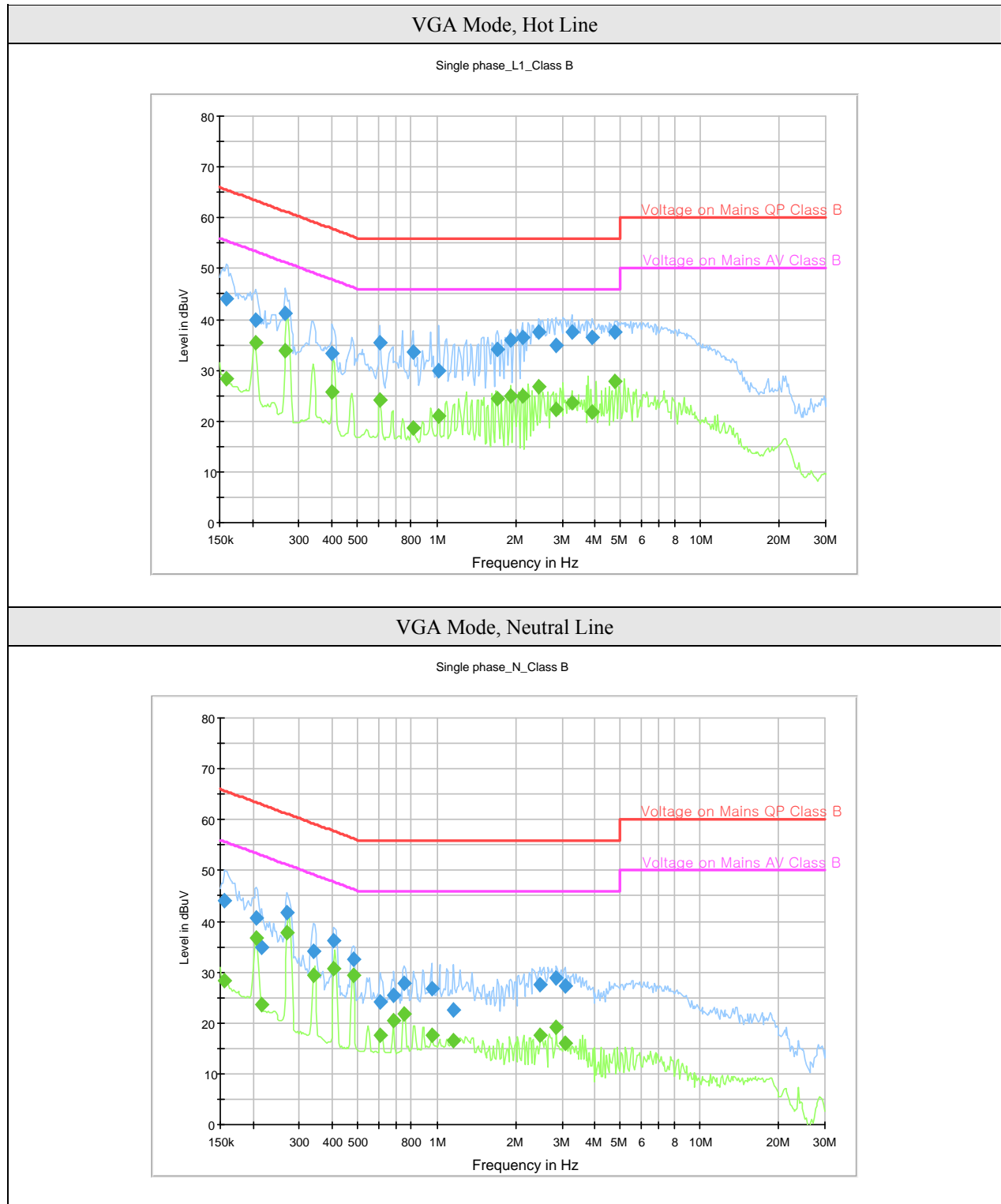


Figure 4. Graphical representation of conducted emissions, COMPONENT In, Out Mode

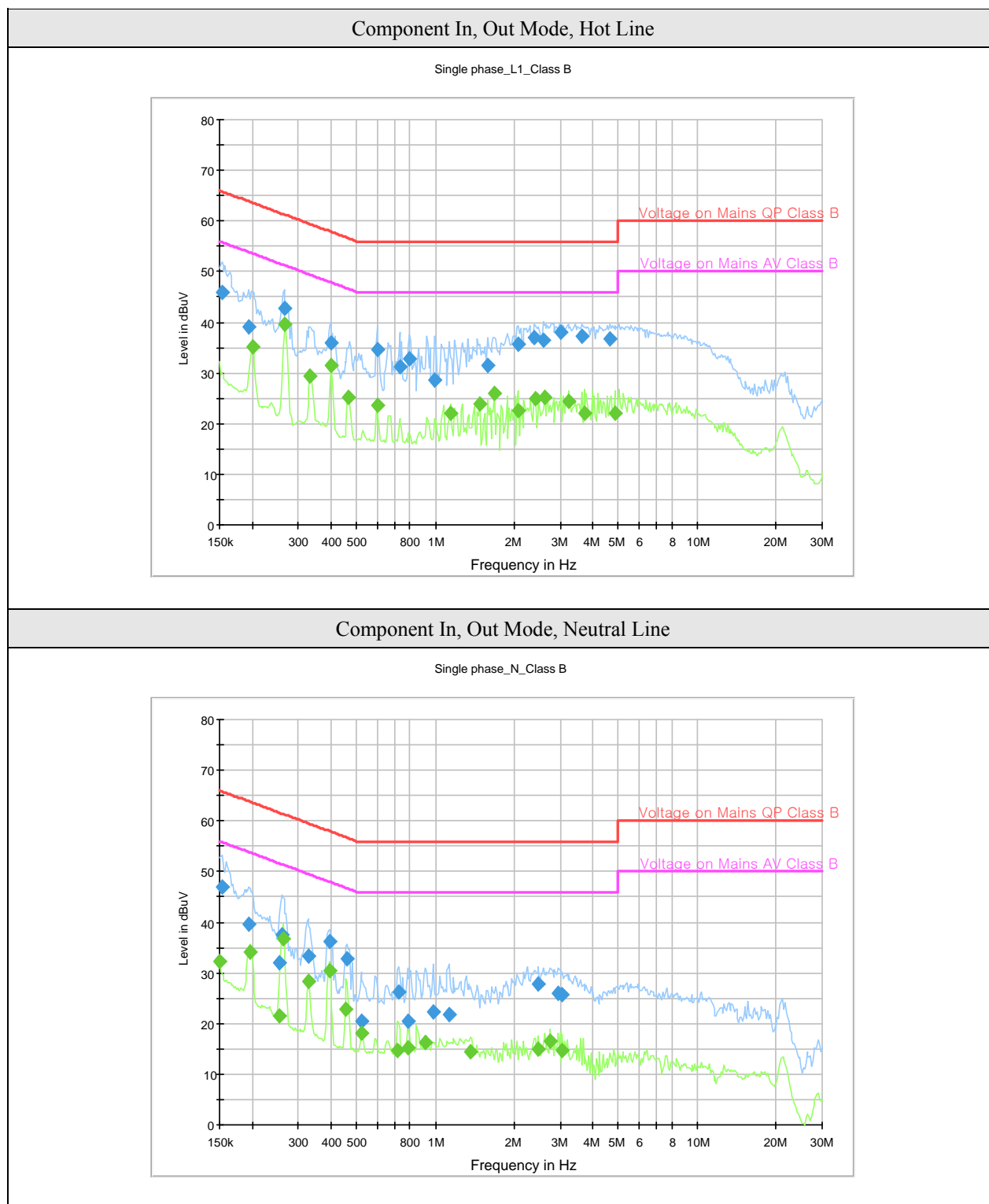


Table 1. Test data for conducted emission, VGA Mode

Test Frequency (MHz)	Correction Factor		Reading value (dBuV)		Line	Level (dBuV)		Limit (dBuV)		Margin (dB)	
	Cable	LISN	QP	AV		QP	AV	QP	AV	QP	AV
0.159	9.75	0.12	34.2	18.3	H	44.1	28.2	66.0	56.0	21.9	27.8
0.206	9.75	0.12	30.8	26.7	N	40.7	36.6	63.0	53.0	22.3	16.4
0.267	9.76	0.13	31.3	23.9	H	41.2	33.8	61.0	51.0	19.8	17.2
0.270	9.76	0.13	31.7	27.7	N	41.6	37.6	61.0	51.0	19.4	13.4
0.406	9.77	0.14	26.3	20.7	N	36.2	30.6	58.0	48.0	21.8	17.4
0.610	9.78	0.13	25.4	14.3	H	35.3	24.2	56.0	46.0	20.7	21.8
0.814	9.80	0.14	23.5	8.8	H	33.4	18.7	56.0	46.0	22.6	27.3
1.700	9.86	0.18	24.1	14.3	H	34.1	24.3	56.0	46.0	21.9	21.7
1.916	9.87	0.19	25.8	14.8	H	35.9	24.9	56.0	46.0	20.1	21.1
2.116	9.89	0.19	26.5	14.8	H	36.6	24.9	56.0	46.0	19.4	21.1
2.433	9.91	0.20	27.5	16.7	H	37.6	26.8	56.0	46.0	18.4	19.2
3.279	9.96	0.23	27.3	13.3	H	37.5	23.5	56.0	46.0	18.5	22.5
3.883	9.99	0.25	26.2	11.7	H	36.4	21.9	56.0	46.0	19.6	24.1
4.738	10.04	0.28	27.1	17.4	H	37.4	27.7	56.0	46.0	18.6	18.3

Note:

1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

Table 2. Test data for conducted emission, Component In, Out Mode

Test Frequency (MHz)	Correction Factor		Reading value (dBuV)		Line	Level (dBuV)		Limit (dBuV)		Margin (dB)	
	Cable	LISN	QP	AV		QP	AV	QP	AV	QP	AV
0.153	9.75	0.12	36.9	22.3	N	46.8	32.2	66.0	56.0	19.2	23.8
0.254	9.76	0.13	22.0	11.6	N	31.9	21.5	62.0	52.0	30.1	30.5
0.264	9.76	0.13	32.8	29.7	H	42.7	39.6	61.0	51.0	18.3	11.4
0.394	9.77	0.14	26.2	20.5	N	36.1	30.4	58.0	48.0	21.9	17.6
0.520	9.78	0.15	10.5	8.3	N	20.4	18.2	56.0	46.0	35.6	27.8
0.598	9.78	0.13	24.8	13.8	H	34.7	23.7	56.0	46.0	21.3	22.3
0.723	9.79	0.16	16.3	4.8	N	26.3	14.8	56.0	46.0	29.7	31.2
0.782	9.79	0.16	10.5	5.2	N	20.5	15.2	56.0	46.0	35.5	30.8
2.075	9.88	0.19	25.7	12.3	H	35.8	22.4	56.0	46.0	20.2	23.6
2.482	9.91	0.22	17.6	5.0	N	27.7	15.1	56.0	46.0	28.3	30.9
3.058	9.94	0.24	15.5	4.4	N	25.7	14.6	56.0	46.0	30.3	31.4
3.622	9.98	0.24	26.9	11.9	H	37.1	22.1	56.0	46.0	18.9	23.9

Note:

1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

3.2 Radiated disturbance

TEST: Limits for radiated disturbance				
Method	A pretest was performed at 3m distances in an anechoic screened enclosure, scanning the frequency range, and locating any frequencies at the which EUT radiated. Frequency scans were conducted with a peak detector with horizontal and vertical polarization of the antenna. Measurements were done in the frequency range 30-1000 MHz. The main test was then conducted by measurements at each frequency found in the pretest. These measurements were done at an open area test site at 10m distances, with a quasi-peak detector. EUT was positioned on a wooden table 0.8m above the floor, at the edge of the turntable. Cables connected to EUT were fixed to cause maximum emission. A maximum emitting point for each frequency was found by turning EUT 0-360 degrees, and adjust the antenna height between 1-4m.			
Parameters recorded during the test		Laboratory Ambient Temperature		18.9 °C
		Relative Humidity		38.5 %
-		Frequency range		Measurement Point
Fully configured sample scanned over the following frequency range		30 MHz – 2.0 GHz		10 meter measurement distance
Limits – Class B				
Frequency (MHz)		Limit (dBµV/m)		
		Quasi-Peak		Results
30 to 230		30		Pass
230 to 1000		37		Pass
1000 to 2000		54 (Average), 74 (Peak) at 3 m		Pass
EUT Configuration Settings:				
Power Interface Mode # (See Section 2.3)		EUT Operation Mode # (See 2.4)		EUT Configurations Mode # (See Section 2.7)
1		2 and 6		1 and 2
Radiated Emissions Test Equipment:				
Description	Manufacturer	Model	Identifier	Cal. Due
Test Receiver	Rohde & Schwarz	ESIB26	100359	2011.04.24
BiconiLog ANT	Schaffner	CBL6112D	22022	2010.10.08
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-539	2011.04.24

Figure 5. Photo of Radiated emission test setup, 30 MHz to 1000 MHz

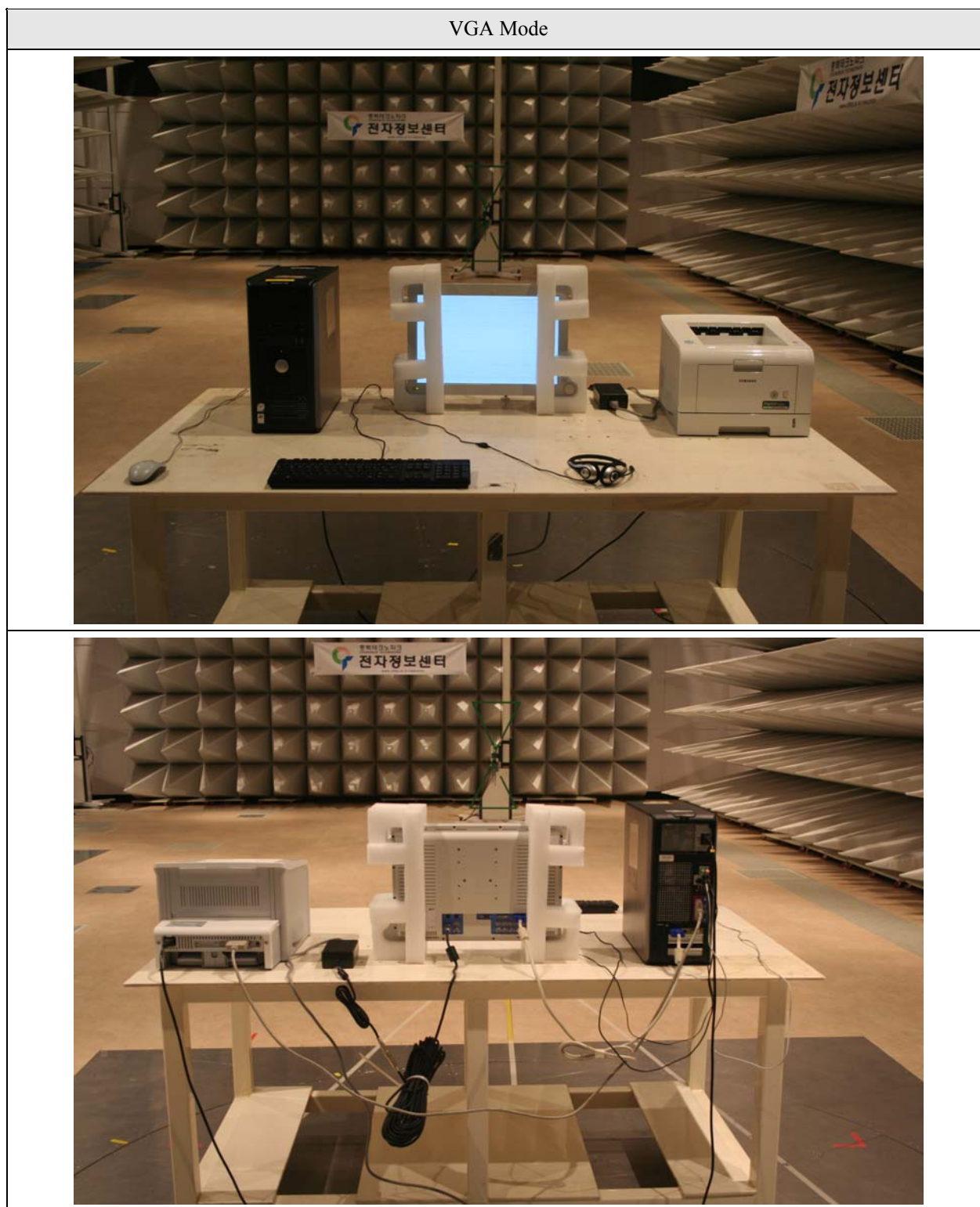


Figure 6. Graphical representation, 30 MHz to 1000 MHz

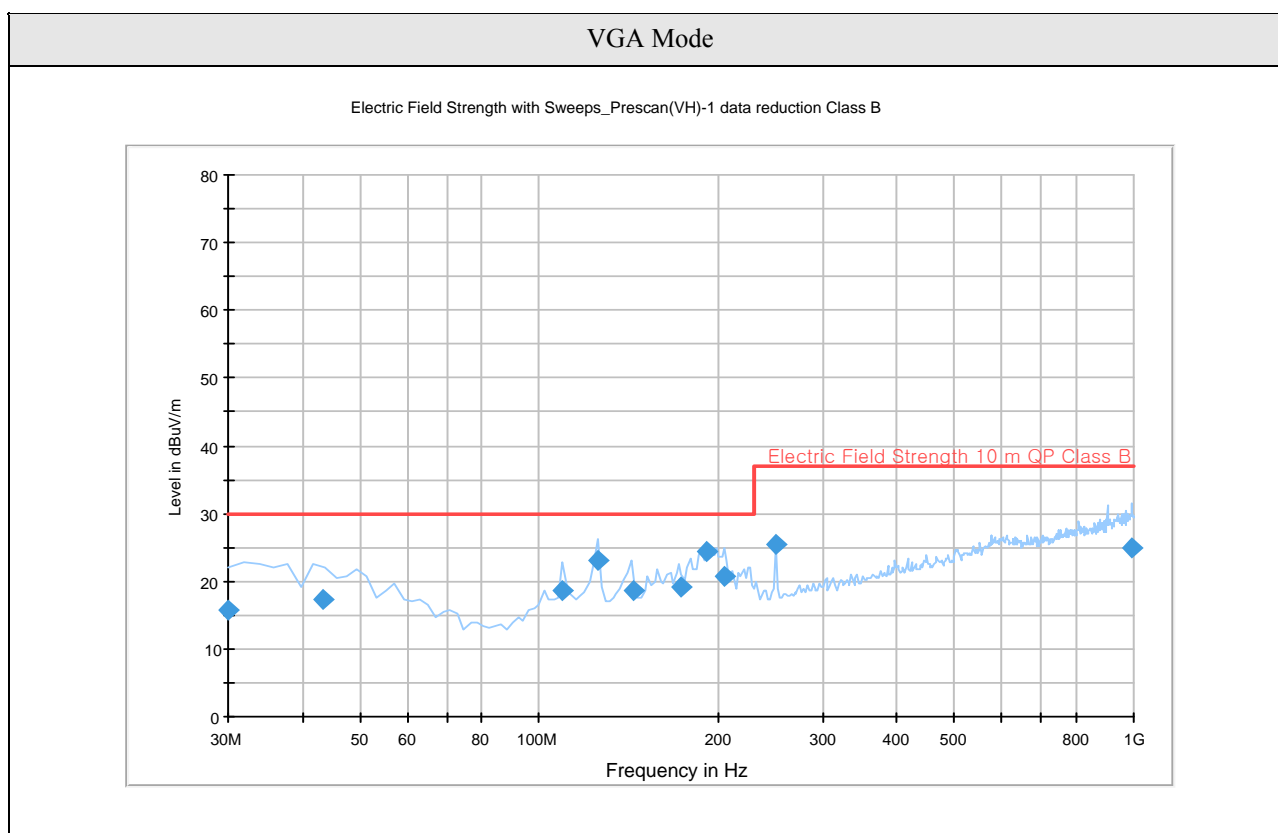


Table 3. Radiated emission Test data, VGA Mode, 30 MHz to 1000 MHz

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Cable Loss Factor (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
43.43	5.66	QP	V	282	2.05	1.04	10.70	17.40	30.00	12.60
109.53	5.89	QP	V	353	1.00	1.62	11.20	18.70	30.00	11.30
125.17	9.22	QP	V	-1	1.00	1.77	12.01	23.00	30.00	7.00
144.03	5.96	QP	V	266	2.05	1.87	10.77	18.60	30.00	11.40
172.90	7.01	QP	V	26	1.05	2.09	10.00	19.10	30.00	10.90
191.99	11.79	QP	V	-1	1.00	2.19	10.32	24.30	30.00	5.70
204.89	7.69	QP	H	0	3.05	2.26	10.75	20.70	30.00	9.30
250.24	9.78	QP	V	315	1.05	2.55	13.17	25.50	37.00	11.50
996.00	-0.65	QP	H	0	2.95	5.46	19.99	24.80	37.00	12.20

Note:

1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

Figure 7. Photo of Radiated emission test setup, 1.0 GHz to 2.0 GHz

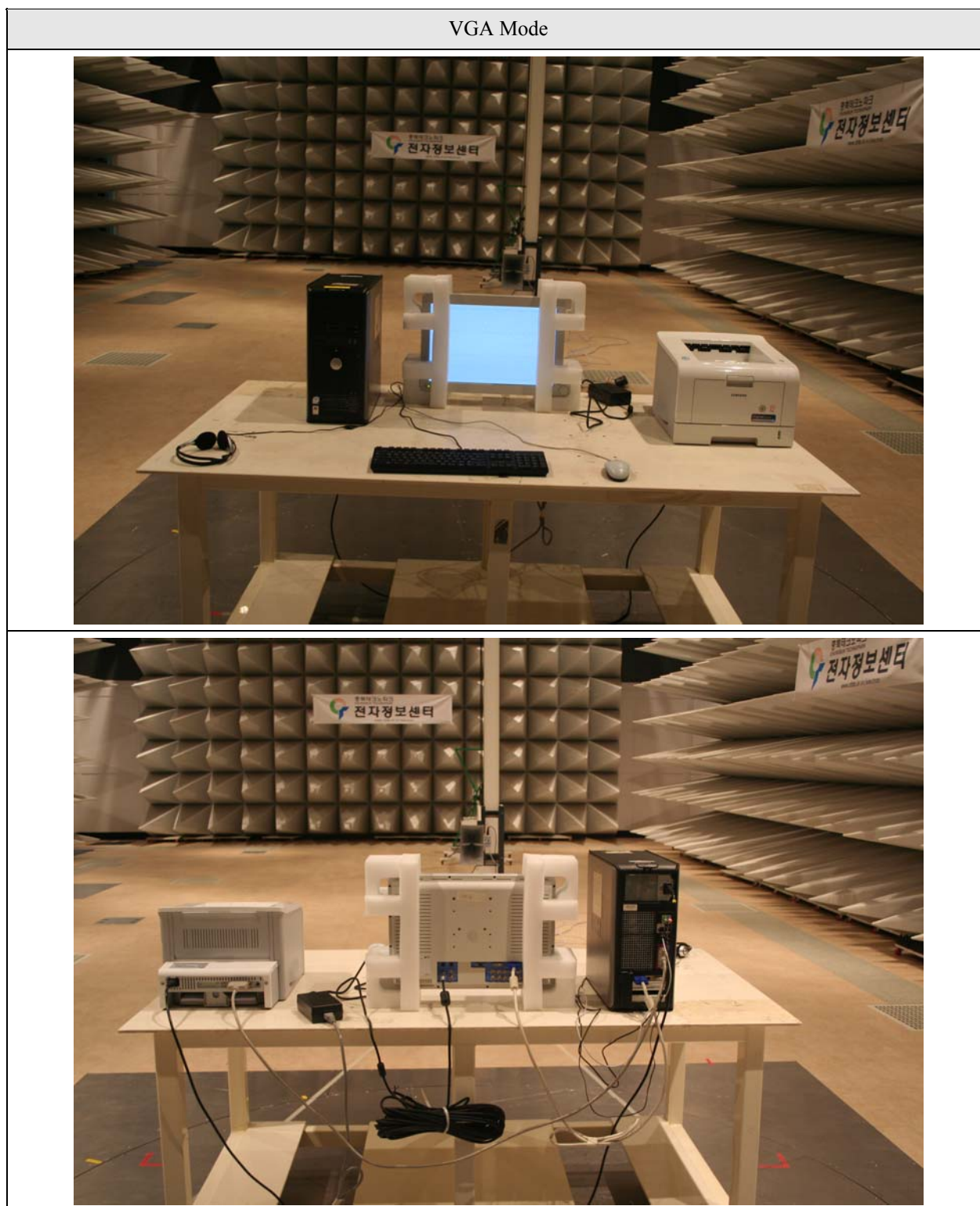


Figure 8. Graphical representation, 1.0 GHz to 2.0 GHz

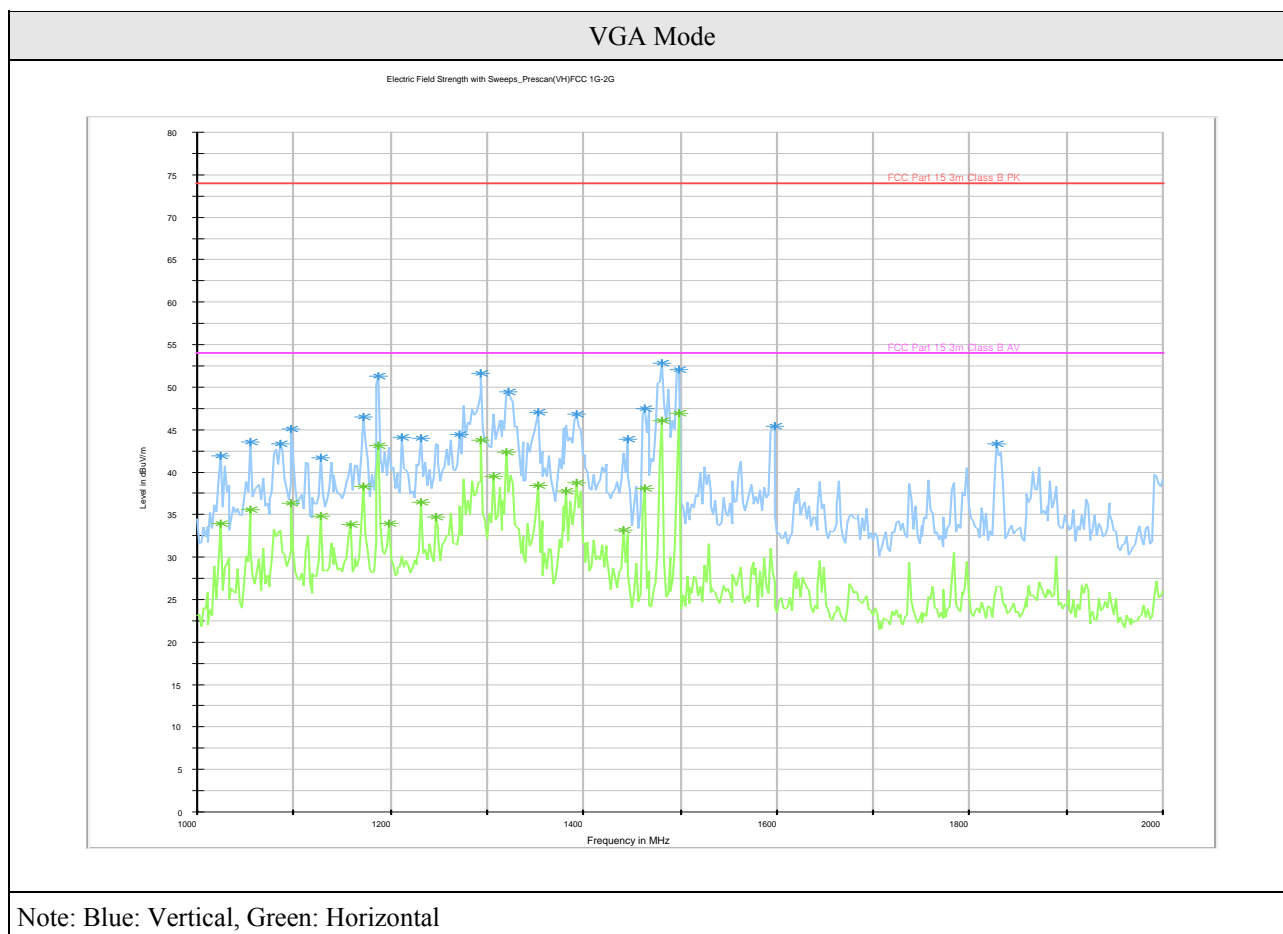


Table 4-1. Radiated emission Test data, VGA Mode, 1.0 GHz to 2.0 GHz

Frequency (MHz)	Correction Factor			Antenna Height (m)	Peak				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1188.38	24.33	41.00	5.27	1.00	H	74.00	39.90	51.30	22.70
1294.59	24.99	41.00	4.91	1.00	V	74.00	40.60	51.70	22.30
1322.65	25.05	41.00	4.95	1.00	H	74.00	38.40	49.40	24.60
1462.93	24.99	41.31	5.63	2.00	V	74.00	36.80	47.50	26.50
1480.96	24.95	41.40	5.76	2.00	H	74.00	42.20	52.90	21.10
1499.00	24.90	41.49	5.99	2.00	H	74.00	41.50	52.10	21.90

Table 4-2. Radiated emission Test data, VGA Mode, 1.0 GHz to 2.0 GHz

Frequency (MHz)	Correction Factor			Antenna Height (m)	Average				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1188.38	24.33	41.00	5.27	1.00	H	54.00	31.70	43.10	10.90
1294.59	24.99	41.00	4.91	1.00	V	54.00	32.60	43.70	10.30
1322.65	25.05	41.00	4.95	1.00	H	54.00	26.50	37.50	16.50
1462.93	24.99	41.31	5.63	2.00	V	54.00	27.40	38.10	15.90
1480.96	24.95	41.40	5.76	2.00	H	54.00	35.30	46.00	8.00
1499.00	24.90	41.49	5.99	2.00	H	54.00	36.30	46.90	7.10

Figure 9. Photo of Radiated emission test setup for 30 MHz to 1000 MHz

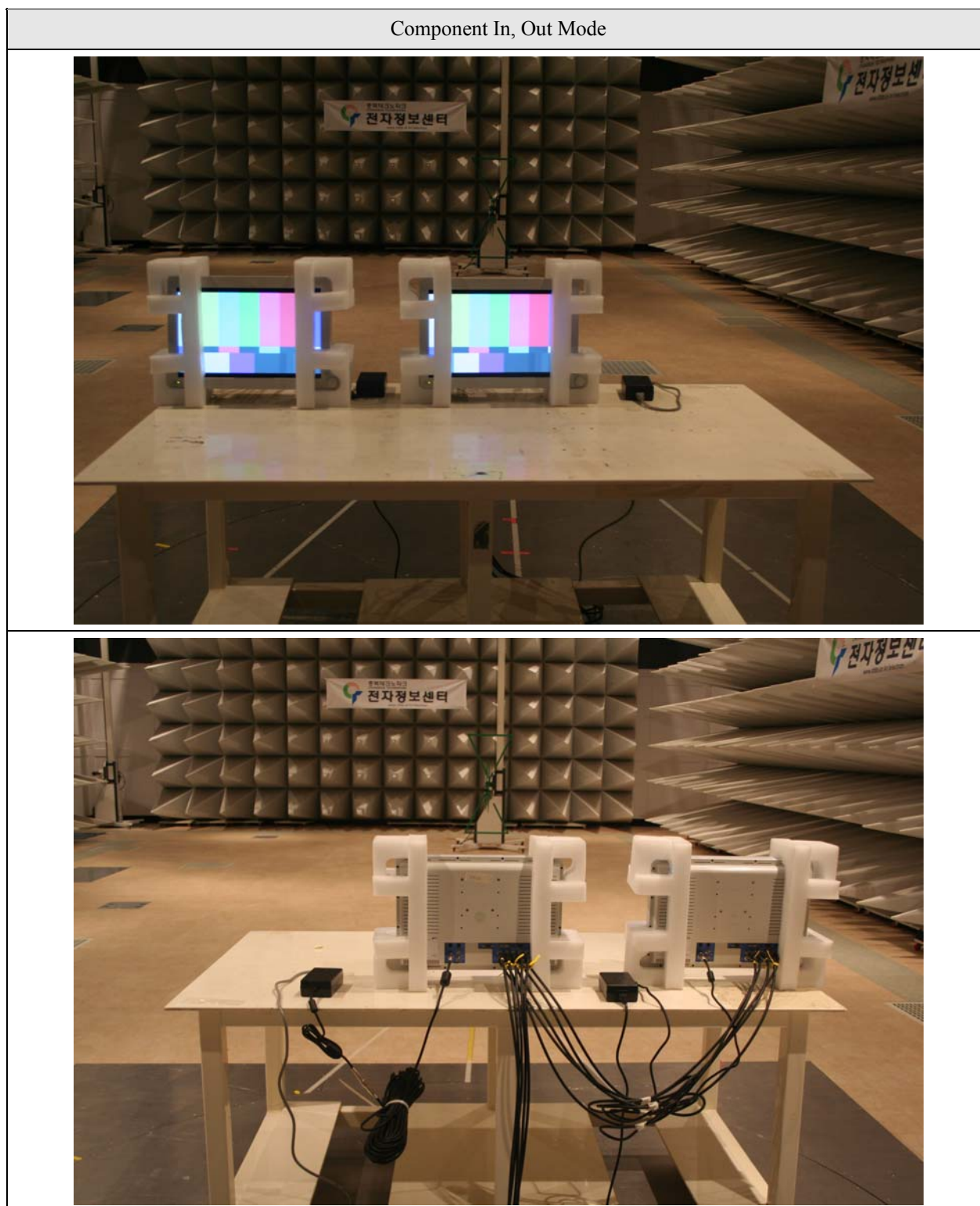


Figure 10. Graphical representation_ 30 MHz to 1000 MHz

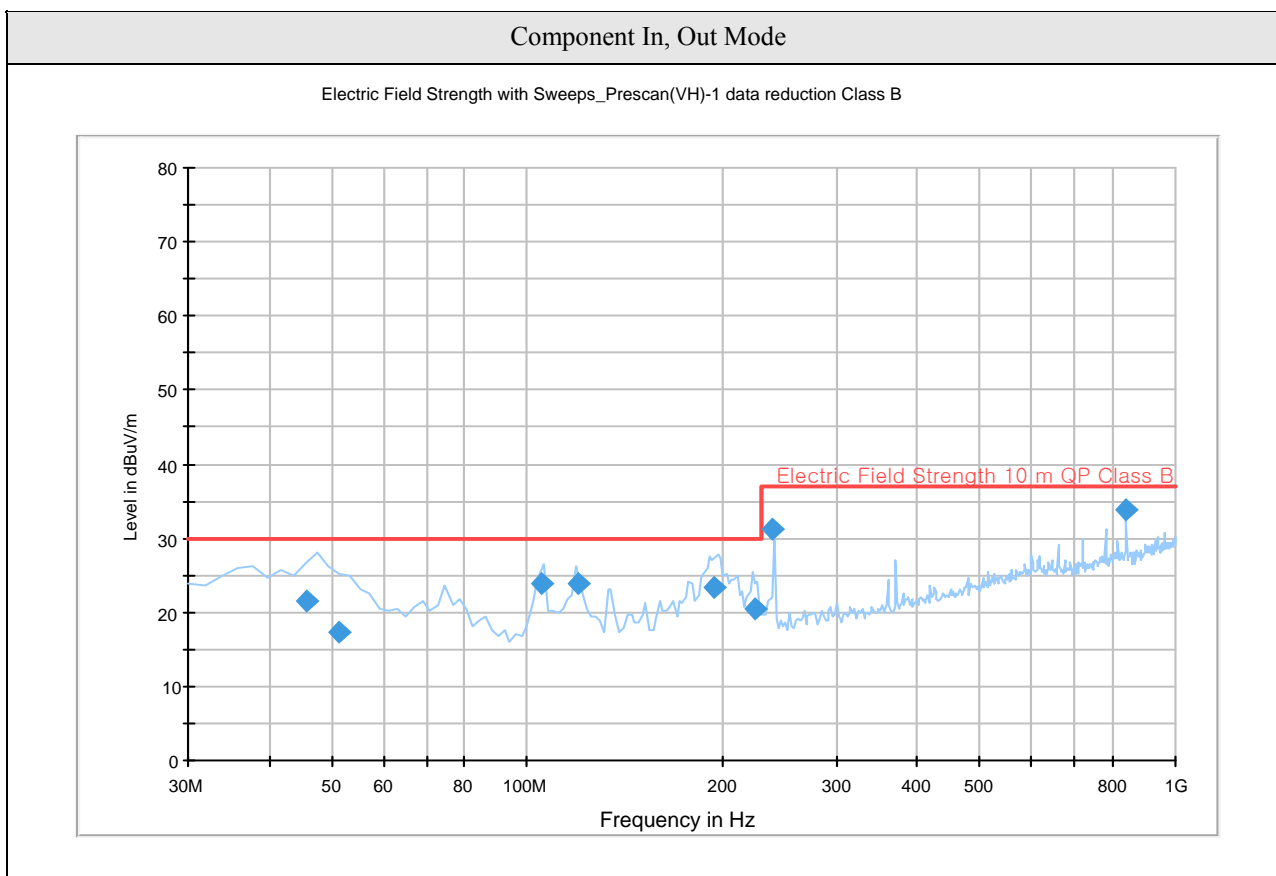


Table 5. Radiated emission Test data, Component In, Out Mode, 30 MHz to 1000 MHz

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Cable Loss Factor (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
45.54	10.92	QP	V	280	1.05	1.07	9.61	21.60	30.00	8.40
51.27	8.92	QP	V	243	2.05	1.10	7.27	17.30	30.00	12.70
105.51	11.44	QP	V	5	1.05	1.58	10.98	24.00	30.00	6.00
119.87	10.33	QP	V	0	1.05	1.72	11.75	23.80	30.00	6.20
194.72	10.72	QP	V	36	1.00	2.20	10.38	23.30	30.00	6.70
223.86	6.35	QP	H	36	3.05	2.38	11.77	20.50	30.00	9.50
239.63	16.10	QP	V	0	1.05	2.48	12.61	31.20	37.00	5.80
838.75	10.09	QP	V	0	3.05	5.04	18.77	33.90	37.00	3.10

Note:

- Margin (dB)= Limit (dBuV) - Level (dBuV)
- If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

Figure 11. Photo of Radiated emission test setup, COMPONENT in, out Mode, 1.0 GHz to 2.0 GHz

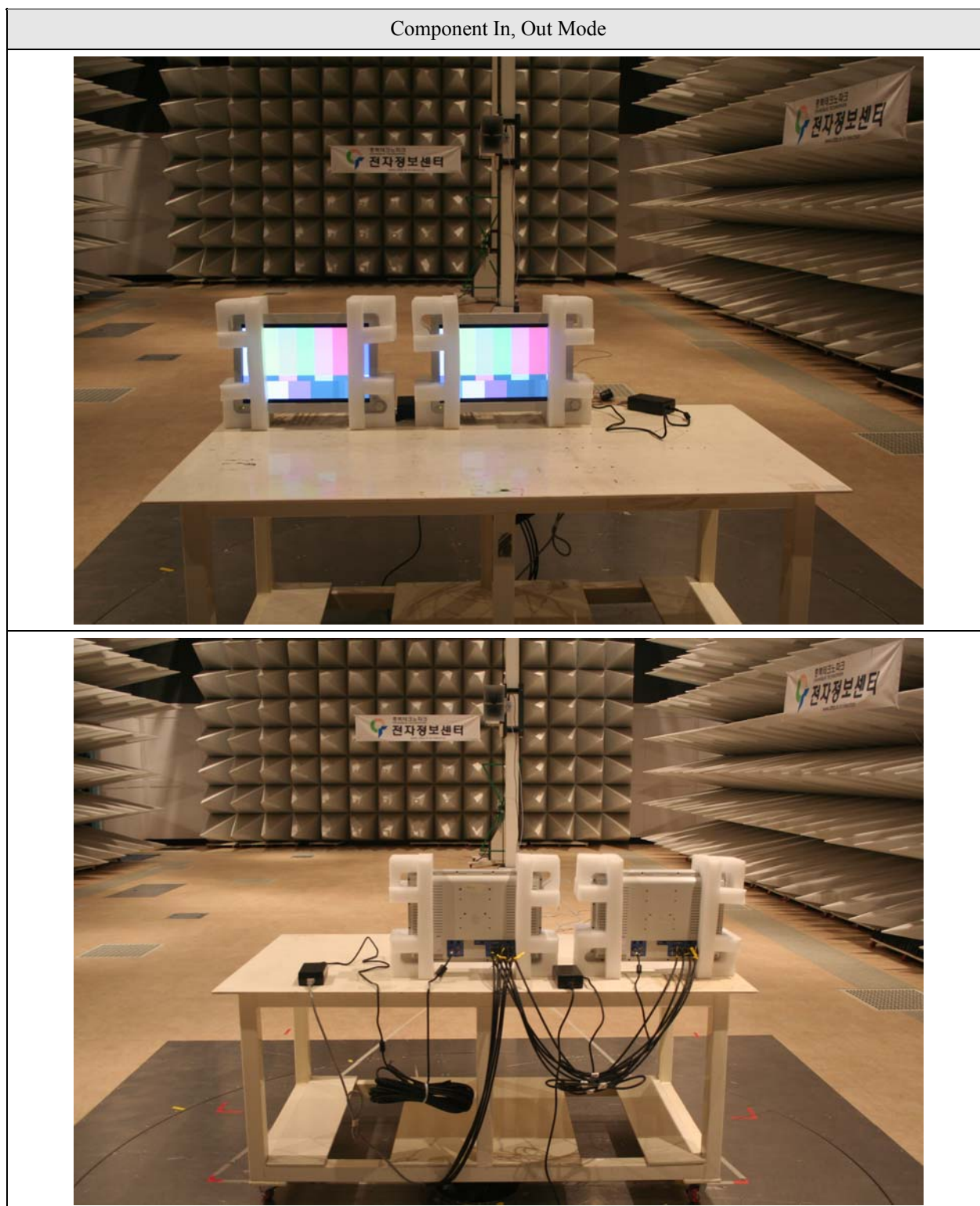


Figure 12. Graphical representation, 1.0 GHz to 2.0 GHz

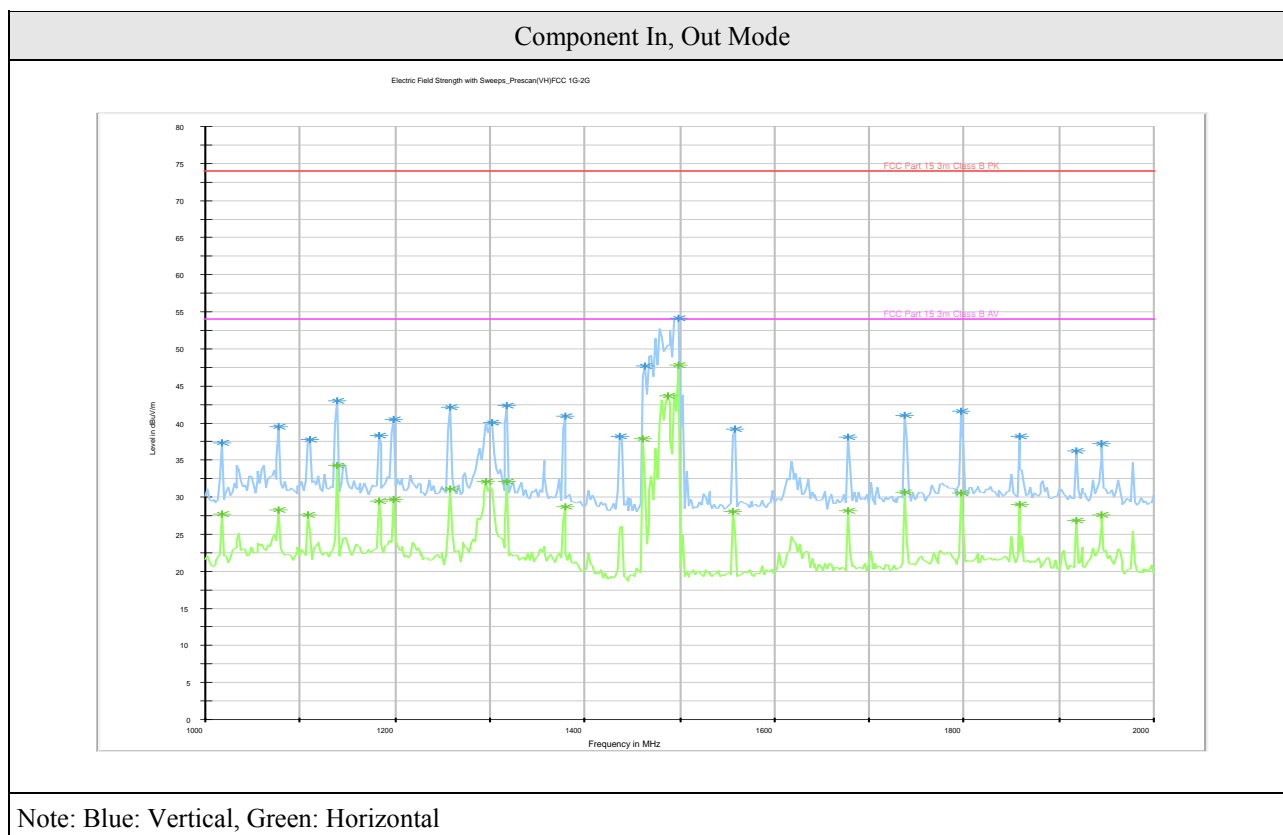


Table 6-1. Radiated emission Test data, Component in, out Mode, 1.0 GHz to 2.0 GHz

Frequency (MHz)	Correction Factor			Antenna Height (m)	Peak				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1018.04	24.23	41.57	5.44	1.00	V	74.00	25.40	37.30	36.70
1138.28	24.23	41.00	5.37	1.00	V	74.00	31.60	43.00	31.00
1258.52	24.75	41.00	5.05	1.00	V	74.00	30.90	42.10	31.90
1318.64	25.05	41.00	4.95	1.00	V	74.00	31.30	42.30	31.70
1462.93	24.99	41.31	5.63	2.00	H	74.00	37.00	47.70	26.30
1499.00	24.90	41.49	5.99	2.00	H	74.00	43.60	54.20	19.80

Table 6-2. Radiated emission Test data, Component in, out Mode, 1.0 GHz to 2.0 GHz

Frequency (MHz)	Correction Factor			Antenna Height (m)	Average				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1018.04	24.23	41.57	5.44	1.00	V	54.00	15.80	27.70	26.30
1138.28	24.23	41.00	5.37	1.00	V	54.00	22.80	34.20	19.80
1258.52	24.75	41.00	5.05	1.00	V	54.00	19.90	31.10	22.90
1318.64	25.05	41.00	4.95	1.00	V	54.00	21.10	32.10	21.90
1462.93	24.99	41.31	5.63	2.00	H	54.00	21.30	32.00	22.00
1499.00	24.90	41.49	5.99	2.00	H	54.00	37.20	47.80	6.20