



UL Korea, Ltd

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Project: 10CA25414
File: TC8312
Report 10CA25414-FCC
Date: June 16, 2010
Model: FS-L4201C

FCC Certification Test report

Part 15 Subpart B Class B Permissive Change class II

For

D&T Inc.

59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA

UL Korea Ltd.

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Project Number: 10CA25414 File Number TC8312 Test Report No: 10CA25414-FCC
Model Number: FS-L4201C Date of Issue: June 16, 2010

TEST REPORT DETAILS

Test report No: 10CA25414-FCC
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: D&T Inc.
59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA
Manufacturer: D&T Inc.
59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA
Factory: D&T Inc.
59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA
Applicant Contact: Mr. Kyutae Park
Phone: Senior Engineer
E-mail: ktpark@dentinc.co.kr
Product Type: 42" Color TFT LCD Monitor
FCC ID: THCFS-L4201C
Model Number: FS-L4201C
Trademark: TANDBERG
Product standards: FCC Part 15 Subpart B Class B
Sample Serial Number: N/A
Sample Receive Date: June 3, 2010
Testing Start Date: June 7, 2010
Date Testing Complete: June 18, 2010
Test Report Date: June 16, 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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TEST SUMMARY

Test Result

Requirement – Test	Reference standards	Verdict
AC Power line Conducted Emission Test	47CFR Part 15.107(a) / 47CFR Part 15.109(g)	Complied
Radiated Emission Test		Complied

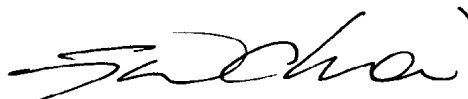
The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL Korea, Ltd. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under 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.
June 16, 2010



Reviewed by
Jeawoon, Choi, Senior Project Engineer
Conformity Assessment Services – 3014ASEO
UL Korea Ltd.
June 21, 2010

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1. EQUIPMENT UNDER TEST (EUT)

1.1 Report Revision history

Revision Date	Description	Remarks
Jan. 12, 2007	Basic model	HCT-F07-0101 by HCT CO Ltd.
Feb. 26, 2008	<u>Permissive change:</u> LCD Panel alternation (LC420WX5 -> LC420WXN)	08CA10346-FCC
June 16, 2010	<u>Permissive change:</u> SMPS (model #: 0627D04349) has been changed two components. One is transformer (T201) and the other is Y-Cap (C216). SMPS part initial number and it's manufacturer were not changed.	10CA25414-FCC

1.2 Equipment Description

Description:
42" Color TFT LCD Monitor

1.3 Details of Test Equipment (EUT)

Equipment Configuration:				
No.	Product Type	Manufacturer	Model	Comments
1	42" Color TFT LCD Monitor	D&T Inc.	FS-L4201C	EUT

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1.4 Equipment Specification

Specification	
Display area	Diagonal: 1067.308
	Viewable: 930.25(H) × 523.01(V)
Driver element	a-Si TFT Active matrix
Number of Pixels	1366x768, 1.05Million
Pixel Pitch	0.681(H) × 0.227(V)
Pixel arrangement	R, B, G Vertical Stripe
Display colors	16.7M (RGB 8-bit data)
Viewing angle	178(H), 178(V)
Display mode	Normally black
AC power voltage and frequency	AC 100 ~ 240V±10%, 60Hz/50Hz±3Hz
DC Power Supply (Internal AC-DC Multi power SMPS)	
Line input voltage range	100 ~ 240 VAC
Line input frequency range	50~60 Hz ±3Hz
Power factor	More than 0.9
Power Consumption	Maximum 300W
	Standby Mode Under 20W
Leakage current	Less than 3.5mA at AC 240V/50Hz
Synchronization	Horizontal Frequency: 91 kHz (Max.)
	Vertical Frequency: 85 Hz (Max.)
Input Signal	Analog RGB
	DVI Digital
	S/PDIF (Coaxial)
Dimension	1022 X 615 X 98 / 29 kg

1.5 Technical descriptions and documents

No.	Document Title and Description
1	FS-L4201C User Manual
Note: The manufacturer provided the following document.	

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1.6 Equipment Used During Test

Use*	Product Type	Manufacturer	Model	Comments
EUT	42" Color TFT LCD Monitor	D&T Inc.	FS-L4201C	-
AE	PC	DELL	OPTIPLEX 760	Connected to EUT through The VGA Cable and DVI Cable.
AE	USB Mouse	ANYZEN	SMOU5000WX	1EA
AE	Keyboard	GP Electronics Co., Ltd	SWT1200	1EA
AE	Resistor	RARA	KR500G	8 ohm
* Note: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, SIM - Simulator (Not Subjected to Test)				

1.7 EUT Input/Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	DVI In	I/O	1.8 m	Shielded	24 Pin DVI Connector for Digital TMDS
2	DSUB In	I/O	1.8m	Shielded	15 Pin D-Sub Connector for Analog RGB
3	Audio In	I/O	1.0m	Shielded	RCA Coaxial S/PDIF Audio input
4	Audio Out	I/O	1.0m	Unshielded	9 Pin D-Sub connector for Speaker Out
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					

1.8 EUT Internal Operating Frequencies

Frequency (MHz)	Description	Frequency (MHz)	Description
27.000 MHz	System Clock	85.000 MHz	Display Clock
28.322 MHz	TMDS Clock	152.000 MHz	Memory Clock

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1.9 Power Interface

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

2. EUT Operation Modes for Testing

2.1 Test Mode of LCD Color Display Monitor

Mode #	Mode	Comments
1	DVI Mode	-
2	VGA Mode	-

Note: EUT has been performed under continuous displaying "H" Patten for configuration modes of 1 to 2.

2.2 Modes of Video resolution

Mode #	Resolution	Comments
1	DVI Mode	320 * 200 @ 60Hz
2		640 * 480 @ 75Hz
3		1360 * 768 @ 60Hz
4	VGA Mode	320 * 200 @ 60Hz
5		640 * 480 @ 75Hz
6		1360 * 768 @ 60Hz

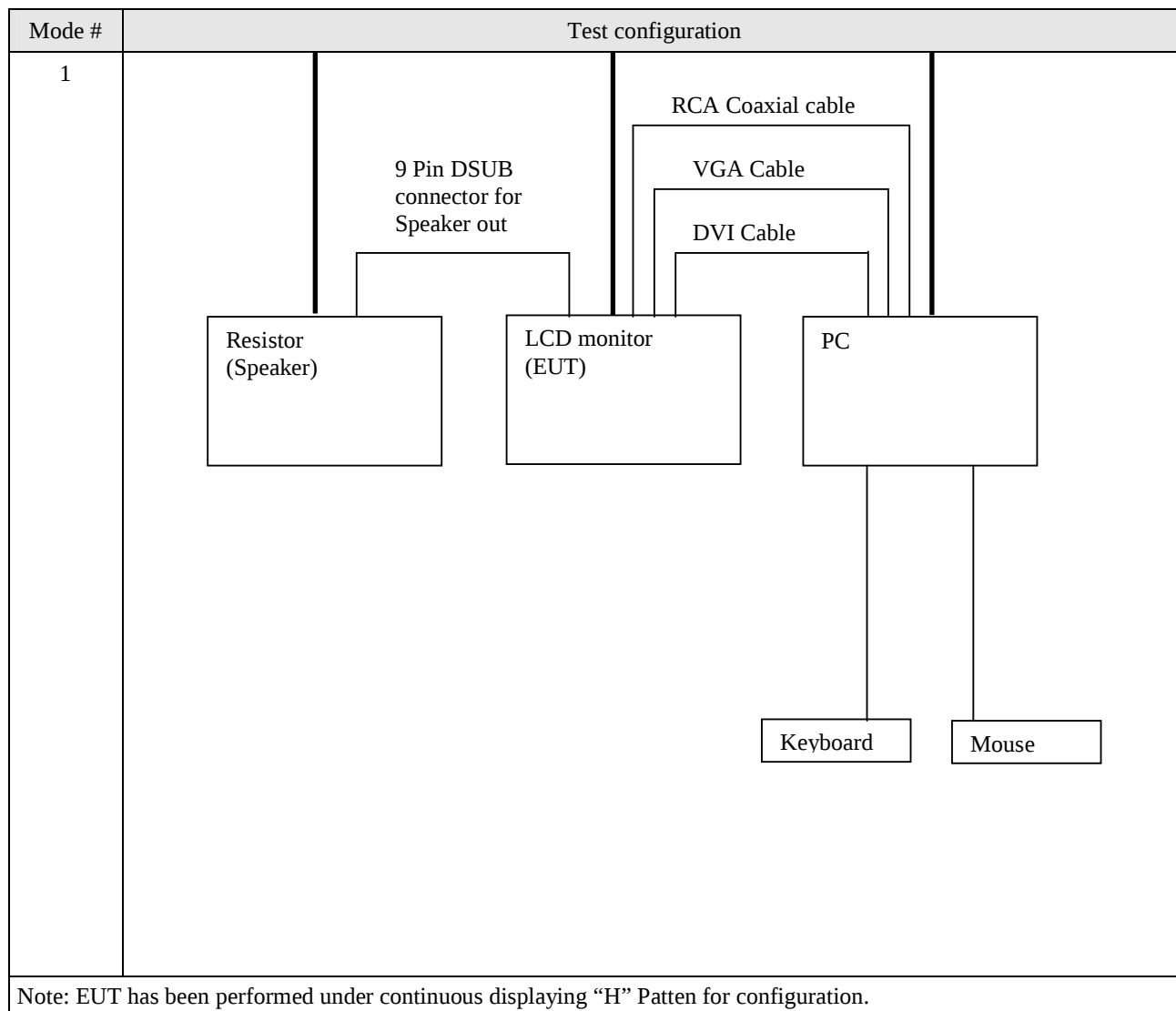
Note: Video resolution where it refers from above is representative worst case.

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2.3 Test Configuration



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3. AC POWER LINE CONDUCTED EMISSION 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		27.5 °C
		Relative Humidity		40.8 %
-		Frequency range on each side of line		Measurement Point
Fully configured sample scanned over the following frequency range		150 kHz to 30 MHz		AC Mains ports of EUT
Limits – Class B				
Frequency (MHz)	Limit (dBµV)			
	Quasi-Peak	Results	Average	Results
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
Conducted Emissions EUT Configuration Settings				
Power Interface Mode # (See Section 1.10)		EUT Operation Mode # (See 2.1)	EUT Configurations Mode # (See Section 2.3)	
1		1 and 2	1and 2	
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

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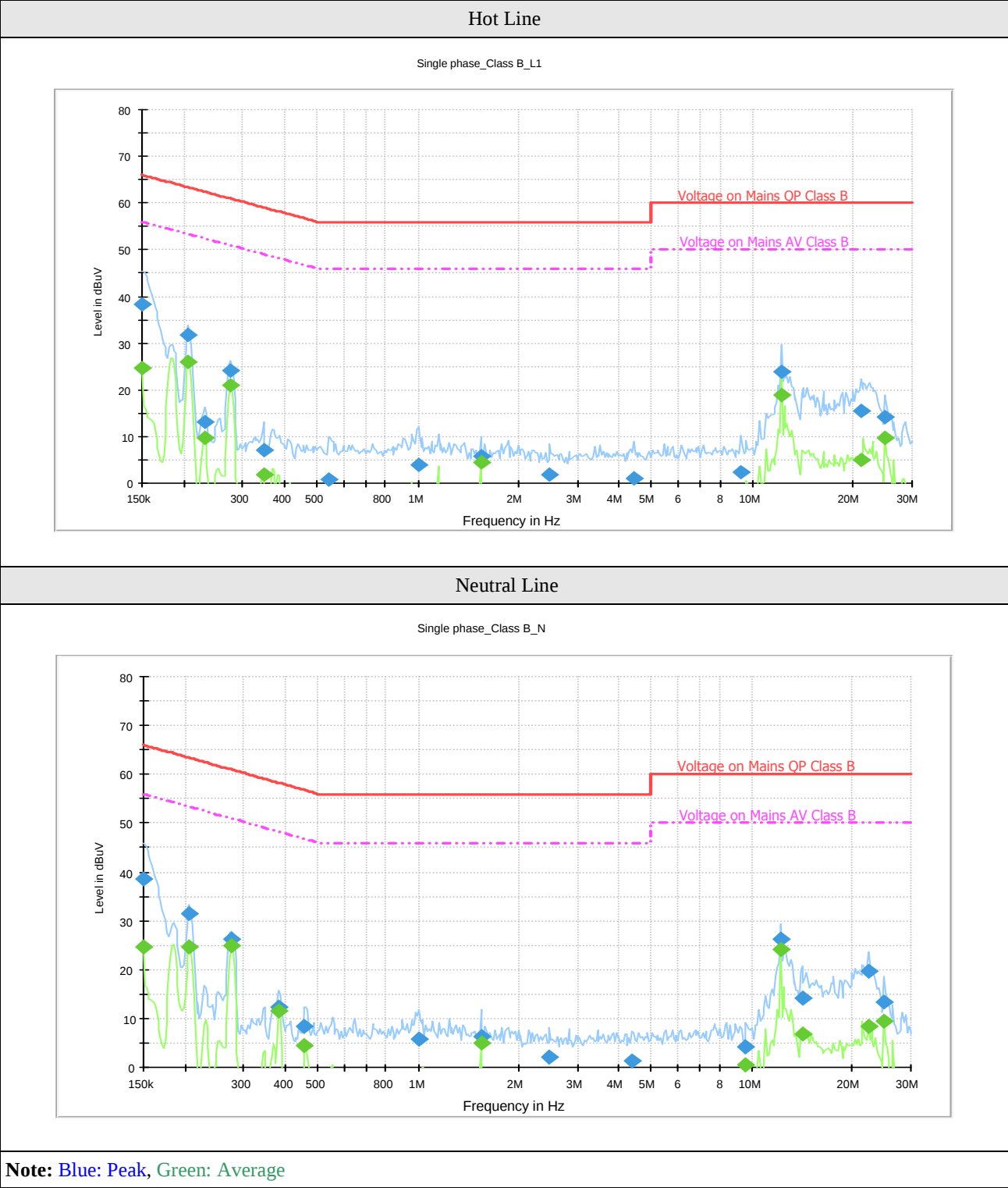
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Figure 1. Conducted Emission Test Setup



Figure 2. Graphical representation, VGA mode



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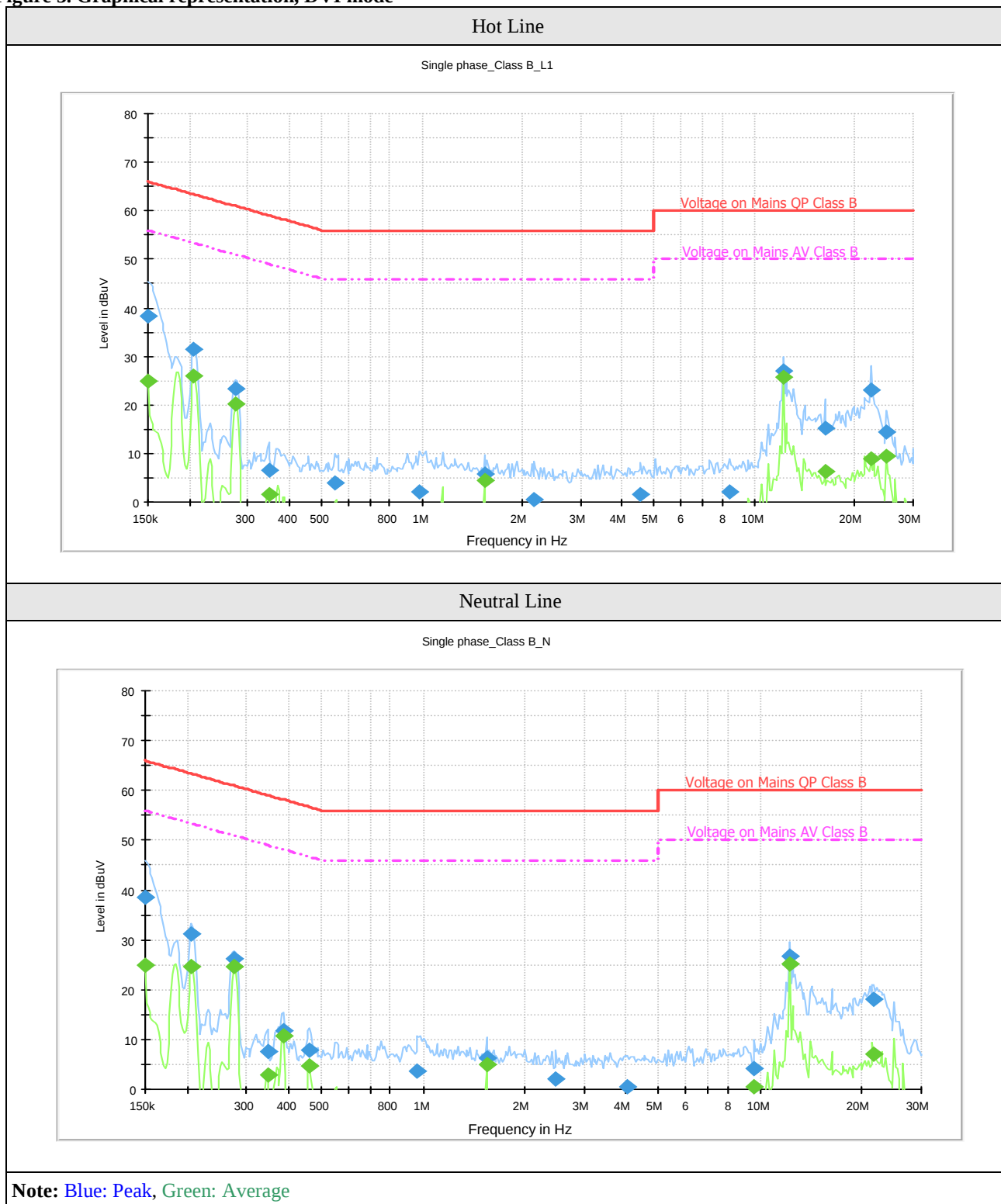
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Table 1. Test data for conducted emission, VGA mode

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
0.15	9.75	0.12	28.6	14.8	N	38.5	24.7	66.0	56.0	27.5	31.3
0.20	9.75	0.12	21.9	16.1	H	31.8	26.0	63.0	53.0	31.2	27.0
0.27	9.76	0.13	16.5	15.0	N	26.4	24.9	61.0	51.0	34.6	26.1
0.38	9.77	0.14	2.5	1.6	N	12.4	11.5	58.0	48.0	45.6	36.5
12.19	10.08	0.55	15.5	13.6	N	26.1	24.2	60.0	50.0	33.9	25.8
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 3. Graphical representation, DVI mode



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Table 2. Test data for conducted emission, DVI mode

DVI 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
0.15	9.75	0.12	28.6	14.9	N	38.5	24.8	66.0	56.0	27.5	31.2
0.21	9.75	0.12	21.4	14.8	N	31.3	24.7	63.0	53.0	31.7	28.3
0.28	9.76	0.13	16.3	14.8	N	26.2	24.7	61.0	51.0	34.8	26.3
0.39	9.77	0.14	1.9	0.9	N	11.8	10.8	58.0	48.0	46.2	37.2
12.19	10.08	0.62	16.3	14.9	H	27	25.6	60.0	50.0	33.0	24.4
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.											

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4. RADIATED EMISSION TEST

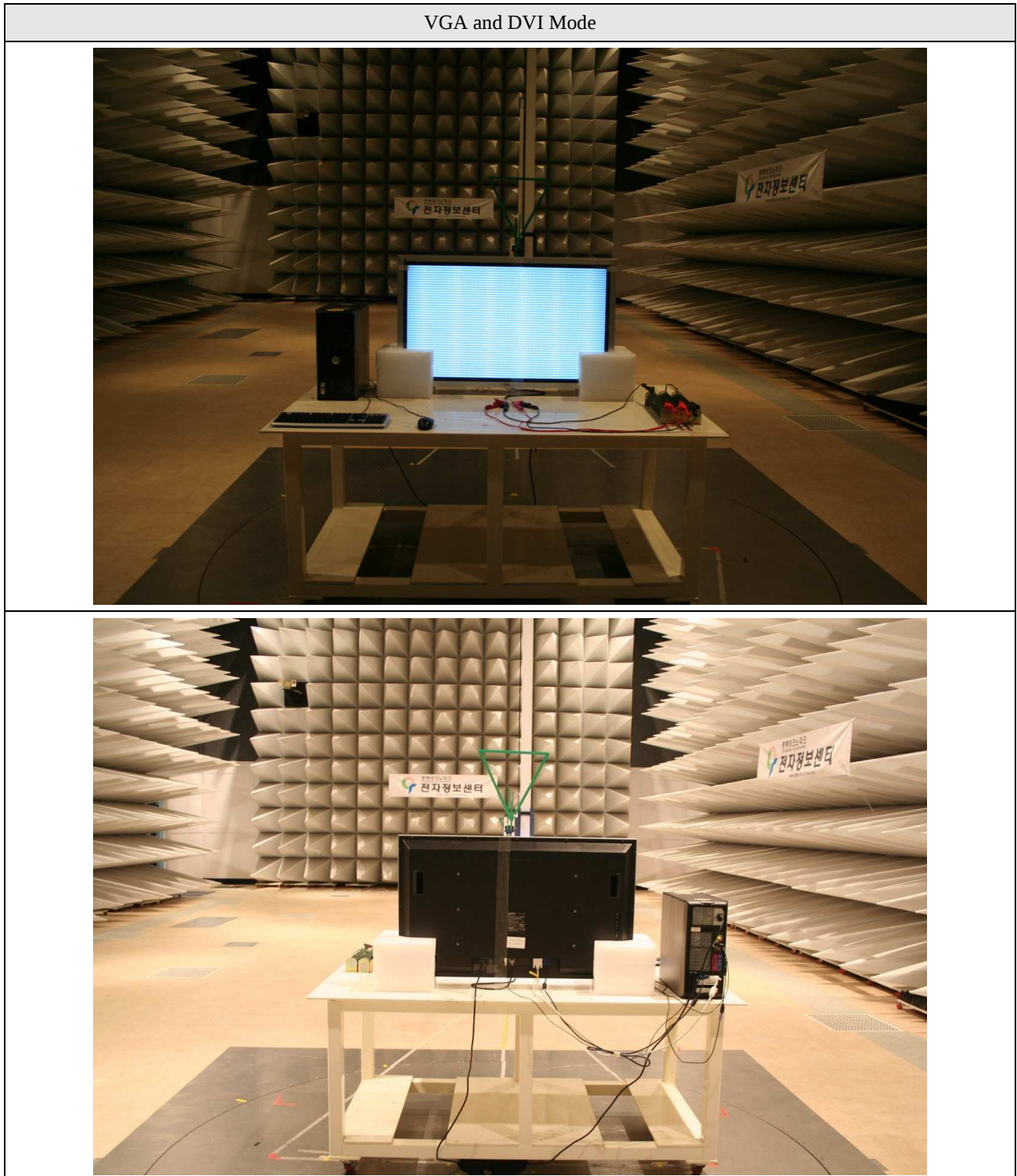
TEST: Limits for radiated disturbance				
Method	Measurements were made at Open area test site that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at 1, 2, 3 and 4 meter heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.			
Parameters recorded during the test		Laboratory Ambient Temperature		26.7 °C
		Relative Humidity		30.3 %
-		Frequency range		Measurement Point
Fully configured sample scanned over the following frequency range		30 MHz – 2.0 GHz		3 meter measurement distance
Limits - Class B				
-		Limit (dBµV/m)		
Frequency (MHz)		Quasi-Peak		Results
30 to 88		40.00		Pass
88 to 216		43.52		Pass
216 to 960		46.02		Pass
960 to 2000		54 (Average), 74 (Peak)		Pass
Conducted Emissions EUT Configuration Settings				
Power Interface Mode # (See Section 1.10)		EUT Operation Mode # (See 2.1)		EUT Configurations Mode # (See Section 2.3)
1		1 and 2		1 and 2
Test Equipment Used				
Description	Manufacturer	Model	Identifier	Cal. Due
Test Receiver	Rohde & Schwarz	ESIB26	100359	2011.04.24
BiconiLog ANT	Schaffner	CBL6112D	22022	2011.10.08
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-539	2011.04.24
Position controller	Inn-co	CO 2000	11261105/L	-
Antenna Mast	Inn-co	MA 4000	-	-
Turntable	Inn-co	DT 3000	-	-

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Figure 4, Photo of Radiated emission test setup, 30 MHz to 1000 MHz



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Figure 5. Graphical representation, VGA mode, 30 MHz to 1000 MHz

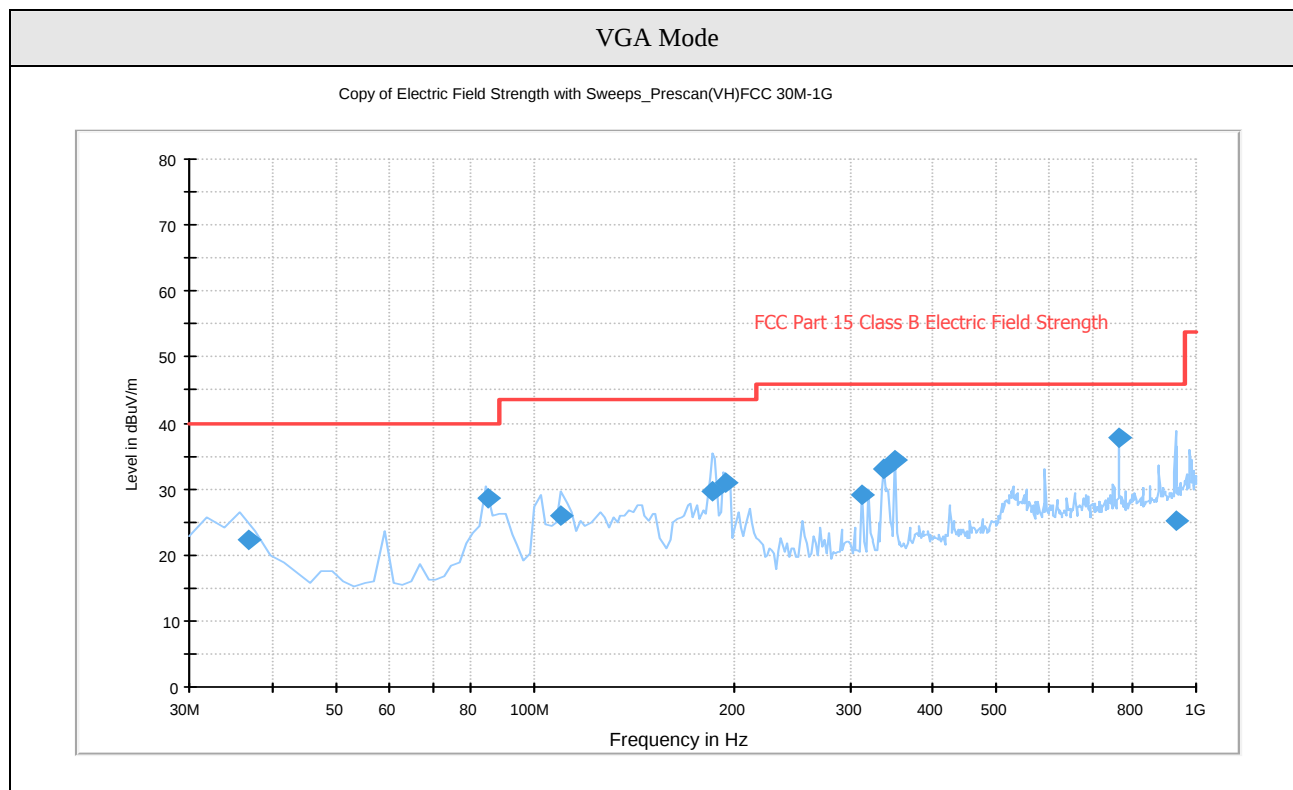


Table 3. Radiated emission Test data, VGA model, 30 MHz to 1000 MHz

VGA mode										
Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Gain/Loss Factor (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
84.84	19.03	QP	H	199	2.05	1.45	8.02	28.50	40.00	11.50
109.75	13.17	QP	V	0	1.05	1.62	11.21	26.00	43.50	17.50
185.22	17.36	QP	H	58	1.05	2.16	10.18	29.70	43.50	13.80
193.56	18.35	QP	H	40	1.05	2.20	10.36	30.90	43.50	12.60
312.16	12.02	QP	H	120	1.00	2.87	14.12	29.00	46.00	17.00
337.52	15.35	QP	H	125	1.05	3.01	14.65	33.00	46.00	13.00
350.99	16.49	QP	H	268	1.05	3.08	14.93	34.50	46.00	11.50
763.68	14.55	QP	V	338	1.00	4.77	18.48	37.80	46.00	8.20

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.

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Figure 6. Graphical representation, DVI mode, 30 MHz to 1000 MHz

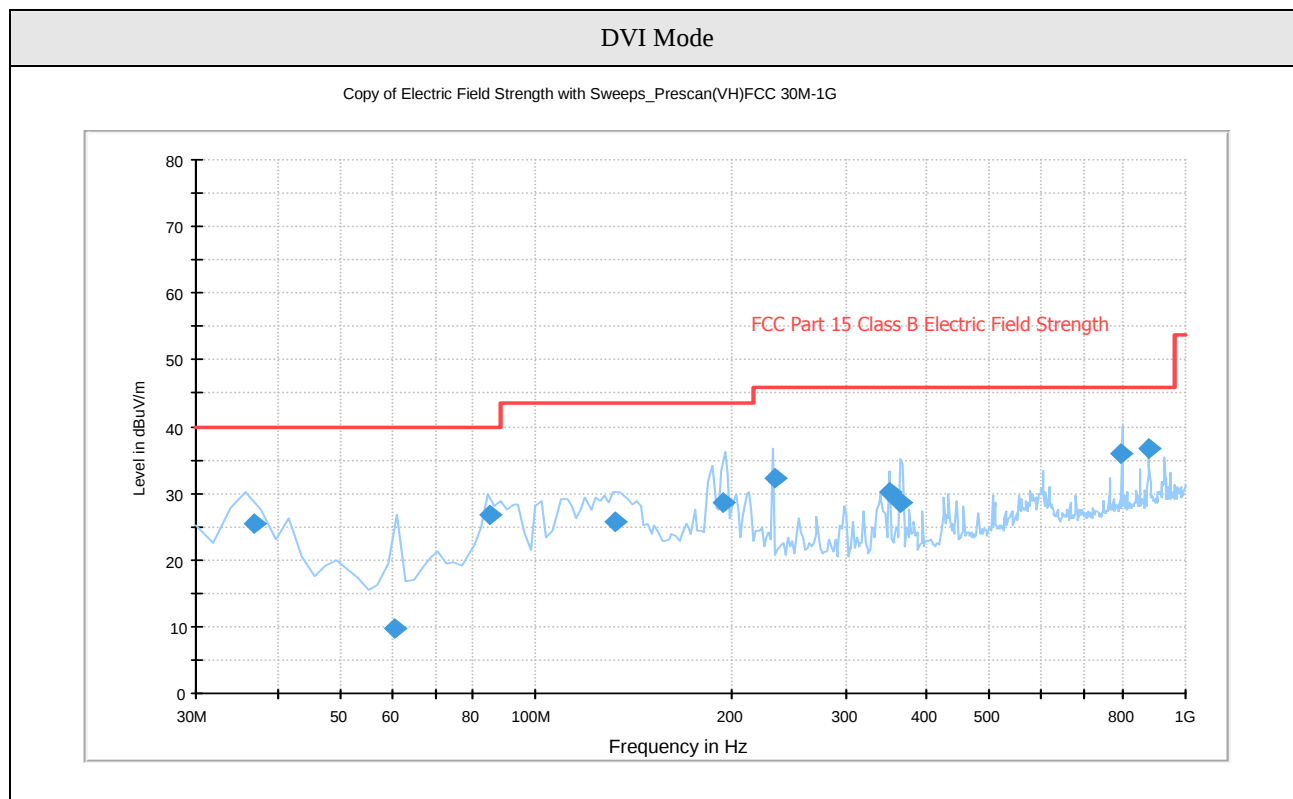


Table 4. Radiated emission Test data, DVI mode, 30 MHz to 1000 MHz

DVI mode										
Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Gain/Loss Factor (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
36.83	9.47	QP	V	242	1.00	0.93	15.00	25.40	40.00	14.60
84.86	17.32	QP	V	0	1.00	1.45	8.02	26.80	40.00	13.20
131.98	12.43	QP	H	8	2.05	1.81	11.56	25.80	43.50	17.70
194.78	15.91	QP	H	331	1.05	2.20	10.38	28.50	43.50	15.00
233.13	17.49	QP	V	3	1.05	2.44	12.27	32.20	46.00	13.80
350.97	12.19	QP	H	5	1.05	3.08	14.93	30.20	46.00	15.80
796.77	12.30	QP	V	9	1.00	4.89	18.71	35.90	46.00	10.10
877.44	12.81	QP	H	248	1.05	5.17	18.82	36.80	46.00	9.20

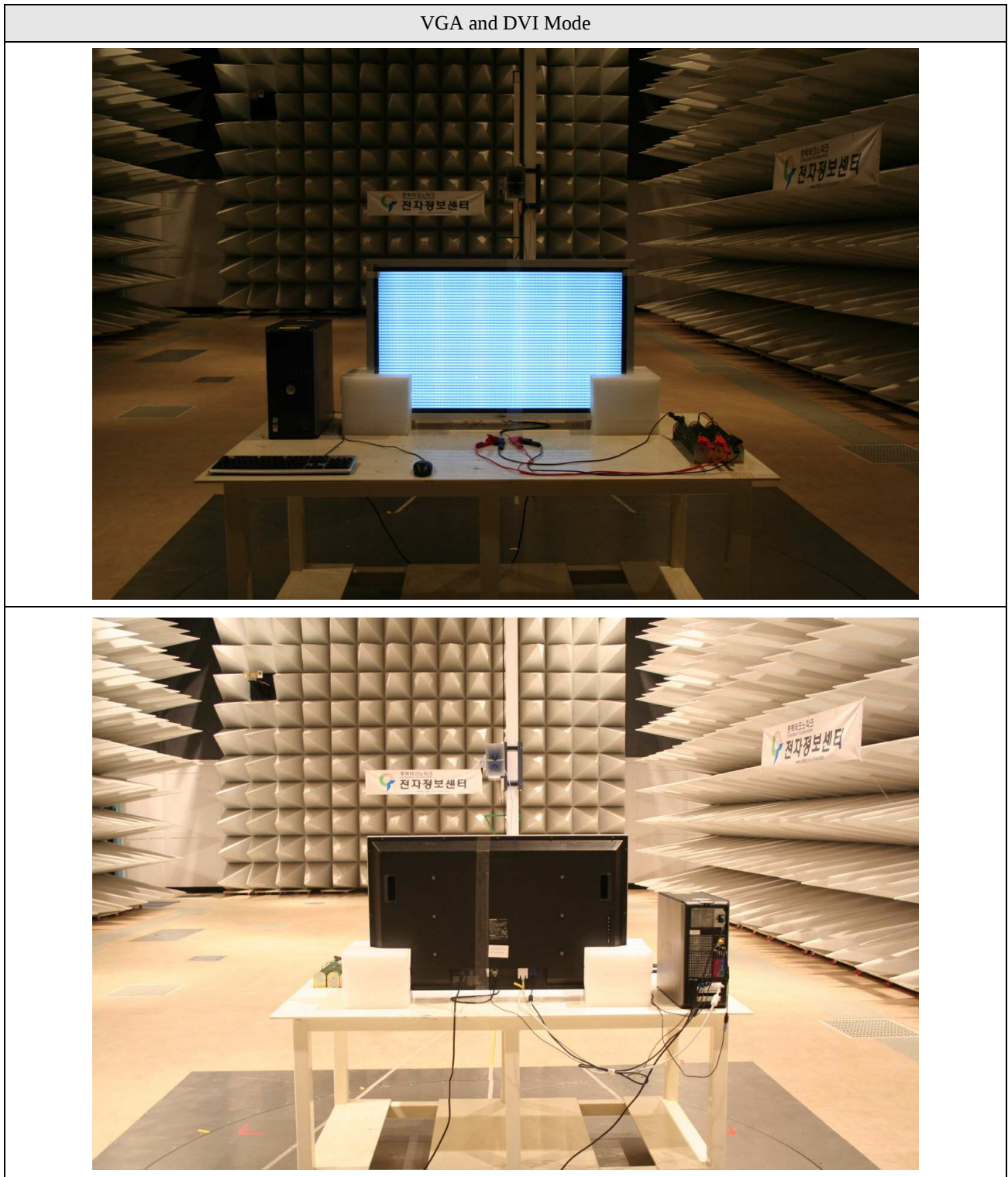
Note:
1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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



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Figure 8. Graphical representation, VGA mode, 1.0 GHz to 2.0 GHz

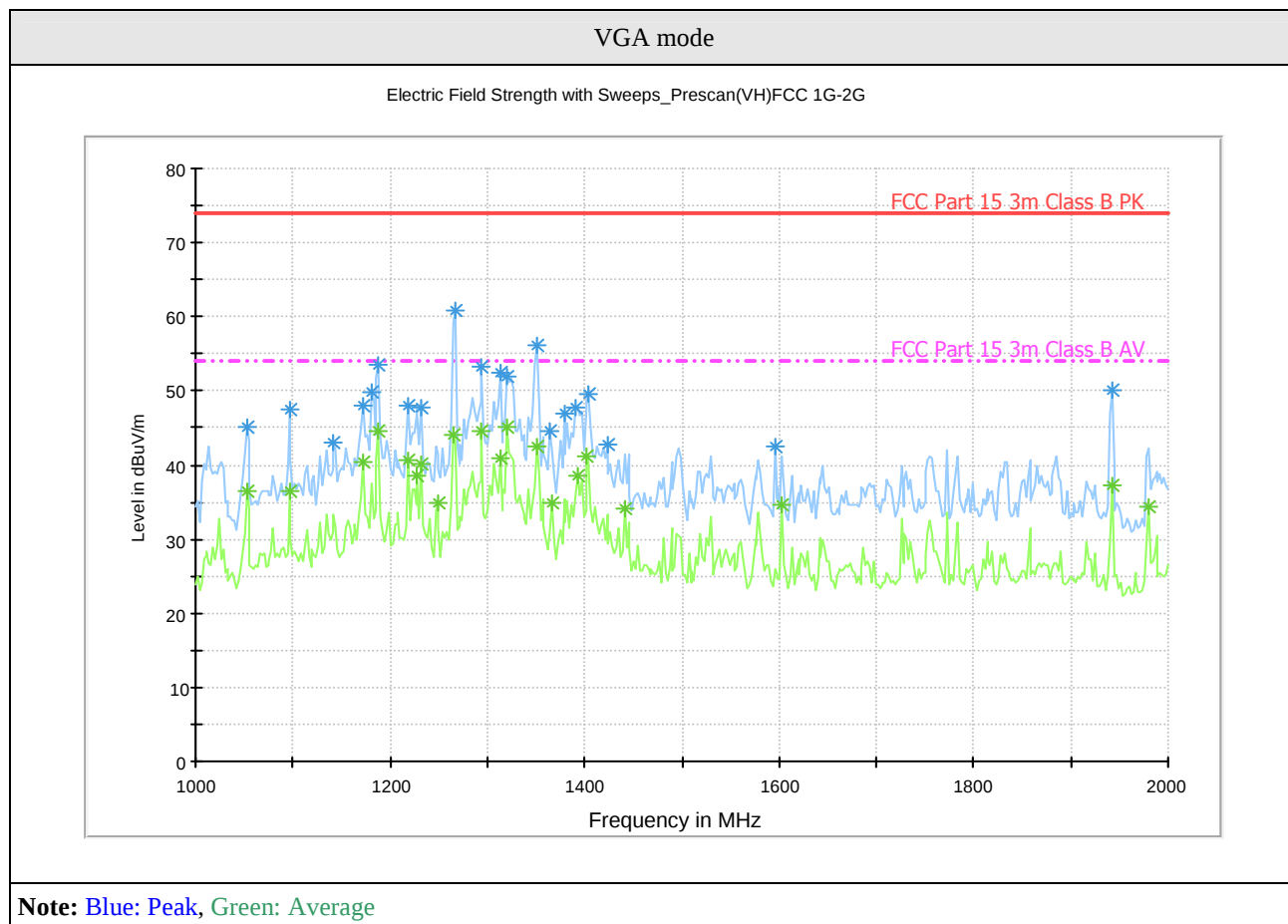


Table 5. Radiated emission Test data, VGA model, 1.0 GHz to 2.0 GHz

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	1.88	V	74.00	65.00	53.60	20.40
1266.53	24.80	41.00	5.00	2.34	V	74.00	72.00	60.80	13.20
1294.59	24.99	41.00	4.91	2.50	V	74.00	64.40	53.30	20.70
1312.63	25.04	41.00	4.96	2.50	V	74.00	63.40	52.40	21.60
1320.64	25.05	41.00	4.95	2.34	V	74.00	63.00	52.00	22.00
1350.70	25.09	41.00	5.01	2.34	V	74.00	67.10	56.20	17.80

Note:

- Margin (dB) = Limit (dBuV) - Result (dBuV)
- Result (dBuV) = Reading (dBuV) + Antenna (dB) + Cable (dB) - Amp (dB).

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Table 6. Radiated emission Test data, VGA model, 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	1.88	V	54.00	56.00	44.60	9.40
1266.53	24.80	41.00	5.00	2.34	V	54.00	54.60	43.40	10.60
1294.59	24.99	41.00	4.91	2.50	V	54.00	55.60	44.50	9.50
1312.63	25.04	41.00	4.96	2.50	V	54.00	51.90	40.90	13.10
1320.64	25.05	41.00	4.95	2.34	V	54.00	56.10	45.10	8.90
1350.70	25.09	41.00	5.01	2.34	V	54.00	53.30	42.40	11.60

Note:

1. Margin (dB)= Limit (dBuV) - Result (dBuV)
2. Result (dBuV) = Reading (dBuV) + Antenna (dB)+ Cable (dB) – Amp (dB).

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Figure 9. Graphical representation, DVI mode, 1.0 GHz to 2.0 GHz

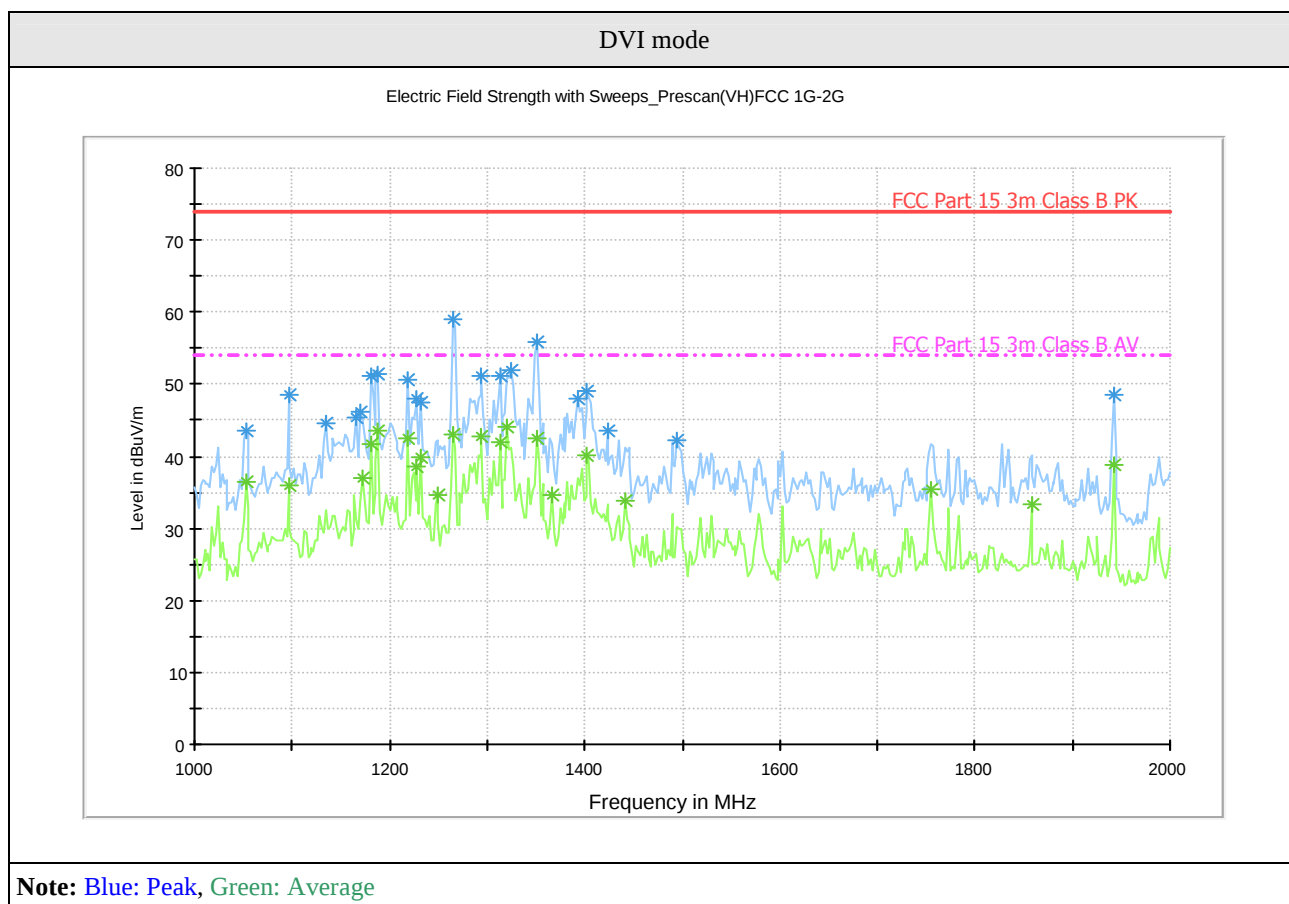


Table 7. Radiated emission Test data, DVI mode, 1.0 GHz to 2.0 GHz

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	V	74.00	62.90	51.50	22.50
1264.53	24.79	41.00	5.01	1.00	V	74.00	70.10	58.90	15.10
1294.59	24.99	41.00	4.91	1.00	V	74.00	62.30	51.20	22.80
1312.63	25.04	41.00	4.96	1.00	V	74.00	62.10	51.10	22.90
1324.65	25.06	41.00	4.94	1.00	V	74.00	62.80	51.80	22.20
1350.70	25.09	41.00	5.01	1.00	V	74.00	66.60	55.70	18.30

Note:

- Margin (dB)= Limit (dBuV) - Result (dBuV)
- Result (dBuV) = Reading (dBuV) + Antenna (dB)+ Cable (dB) – Amp (dB).

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Table 8. Radiated emission Test data, DVI 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	V	54.00	54.90	43.50	10.50
1264.53	24.79	41.00	5.01	1.00	V	54.00	54.30	43.10	10.90
1294.59	24.99	41.00	4.91	1.00	V	54.00	53.80	42.70	11.30
1312.63	25.04	41.00	4.96	1.00	V	54.00	53.00	42.00	12.00
1324.65	25.06	41.00	4.94	1.00	V	54.00	52.20	41.20	12.80
1350.70	25.09	41.00	5.01	1.00	V	54.00	53.40	42.50	11.50
Note: 1. Margin (dB)= Limit (dBuV) - Result (dBuV) 2. Result (dBuV) = Reading (dBuV) + Antenna (dB)+ Cable (dB) – Amp (dB).									