

EMC TEST REPORT
For

Shenzhen Beacon Display Technology Co., Ltd.,

LCD Monitor

Model No.: C22WT***, C22WP***, C22W***

FCC ID: Z5QC22WTC22WPC22W

Prepared for : Shenzhen Beacon Display Technology Co., Ltd.,
Address : Room 201, Incubator Bld, CASTD, High-tech South 1st Street,
Nanshan District, Shenzhen 518057, China

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Report Number : ES120518092F-1
Date of Test : June 25, 2014 to August 19, 2014
Date of Report : August 25, 2014

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TEST REPORT DESCRIPTION

Applicant : Shenzhen Beacon Display Technology Co., Ltd.,
Manufacturer : Shenzhen Beacon Display Technology Co., Ltd.,
Trade Mark : INSIGNIA
EUT : LCD Monitor
Model No. : C22WT***, C22WP***, C22W***
Power Supply : DC 24V from Adapter

Measurement Procedure Used:

FCC Rules and Regulations Part 15: 2013 Subpart B Class B & FCC / ANSI C63.4-2009

The device described above is tested by SHENZHEN EMTEK CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and SHENZHEN EMTEK CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of SHENZHEN EMTEK CO., LTD.

Date of Test : June 25, 2014 to August 19, 2014

Prepared by : Jack Li
Jack Li/Editor

Reviewer : Joe Xia
Joe Xia/Supervisor

Approved & Authorized Signer : Lisa Wang
Lisa Wang/Manager

1. SUMMARY OF TEST RESULT

Emission		
Description of Test Item	Standard & Limits	Results
Conducted Disturbance at Mains Terminals	FCC Part 15, Subpart B, Class B ANSI C63.4: 2009	Pass
Disturbance Voltage at the Antenna Terminal	FCC Part 15, Subpart B, Class B ANSI C63.4: 2009	N/A
Radiated Disturbance	FCC Part 15, Subpart B, Class B ANSI C63.4: 2009	Pass

Note: N/A is an abbreviation for Not Applicable.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : LCD Monitor

Model Number : C22WT***, C22WP***, C22W*** ("*" stands for "A-Z", All models are almost the same, P means with front protection glass with brightness sensor, "*" stands for "A-Z", "0-9" or "blank", indicate different colours of appearance and different designation of model, and not influential with the products' feature of safety and EMC. We take C22WT to test. C22WT has two different appearance of the sample, LM215WF3 corresponds to a panel model: LM215WF3; T215HVN01.0 corresponds to a panel model: T215HVN01.0.

Adapter : Model: SSA-0601D-12
Input: AC 100-240V, 50/60Hz, 2A
Output: DC 12V, 5A, 60W Max

Test Voltage : AC 120V/60Hz

Applicant : Shenzhen Beacon Display Technology Co., Ltd.,

Address : Room 201, Incubator Bld, CASTD, High-tech South 1st Street, Nanshan District, Shenzhen 518057, China

Manufacturer : Shenzhen Beacon Display Technology Co., Ltd.,

Address : Room 201, Incubator Bld, CASTD, High-tech South 1st Street, Nanshan District, Shenzhen 518057, China

Date of Received : June 25, 2014

Date of Test : June 25, 2014 to August 19, 2014

2.2.Description of Support Device

PC (For EMI test)	:	Manufacturer: Lenovo M/N: ThinkCentre 8701 S/N: 8701A53L3BC108 CE, FCC: DOC
Mouse	:	Manufacturer: HP M/N: M-S48a S/N: LZE14823966AW CE, FCC: DOC
Keyboard	:	Manufacturer: HP M/N: SK-2502C S/N: C0111141546 CE, FCC: DOC
Printer	:	Manufacturer: HP M/N: C89520 S/N: CN25S182N6 CE, FCC: DOC

2.3.Description of Test Facility

Site Description	
EMC Lab.	: Accredited by CNAS, 2013.10.29 The certificate is valid until 2016.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L2291.
	: Accredited by TUV Rheinland Shenzhen 2010.5.25 The Laboratory has been assessed according to the requirements ISO/IEC 17025.
	: Accredited by FCC, April 17, 2013 The Certificate Registration Number is 709623.
	: Accredited by Industry Canada, November 15, 2010 The Certificate Registration Number is 46405-4480.
Name of Firm	: SHENZHEN EMTEK CO., LTD
Site Location	: Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

2.4.Measurement Uncertainty

Conducted Emission Uncertainty : 2.96dB(9k~150kHz Conduction 1#)
2.74dB(150k-30MHzConduction 1#)

Radiated Emission Uncertainty : 3.78dB (30M~1GHz Polarize: H)
4.27dB (30M~1GHz Polarize: V)
4.46dB (1~6GHz)
4.96dB (6~18GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

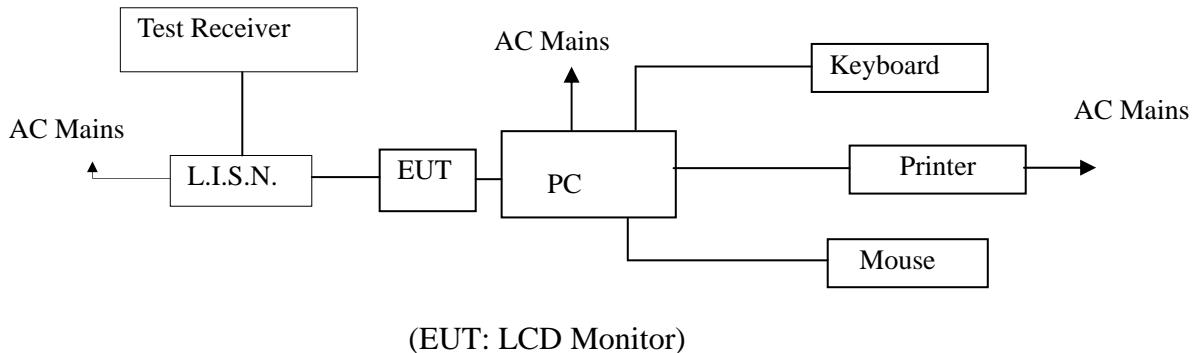
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	L.I.S.N.	Schwarzbeck	NNLK8129	8129-203	May 17, 2014	1 Year
<input type="checkbox"/>	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z6	100011	May 17, 2014	1 Year
<input type="checkbox"/>	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z6	100253	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z5	100191	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
<input type="checkbox"/>	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 17, 2014	1 Year
<input type="checkbox"/>	Current probe	Rohde & Schwarz	EZ-17	0816.2063.02	May 17, 2014	1 Year

3.2. For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	HP	8447D	2944A07999	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Bilog Antenna	Schwarzbeck	VULB9163	142	May 17, 2014	1 Year
<input type="checkbox"/>	Loop Antenna	Schwarzbeck	FMZB 1519	012	May 17, 2014	1 Year
<input type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	ACRX1	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Cable	Rosenberger	N/A	FP2RX2	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	CRPX1	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Cable	Schwarzbeck	AK9513	CRRX2	May 17, 2014	1 Year
<input checked="" type="checkbox"/>	Pre-Amplifier	A.H.	PAM-0126	1415261	May 17, 2014	1 Year

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



4.2. Measuring Standard

FCC Part 15, Subpart B, Class B ANSI C63.4: 2009

4.3. Power Line Conducted Emission Limits (Class B)

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.4. Configuration of EUT on Measurement

The following equipments are installed on Conducted Emission Measurement to meet FCC requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

EUT : LCD Monitor
Model Number : C22WT

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown on Section 4.1.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3. Let the EUT work in measuring mode (DP, DVI, VGA) and measure it.

4.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the FCC regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCS30) is set at 9kHz in 150kHz~30MHz and 200Hz in 9kHz~150kHz.

The frequency range from 150kHz to 30MHz is investigated

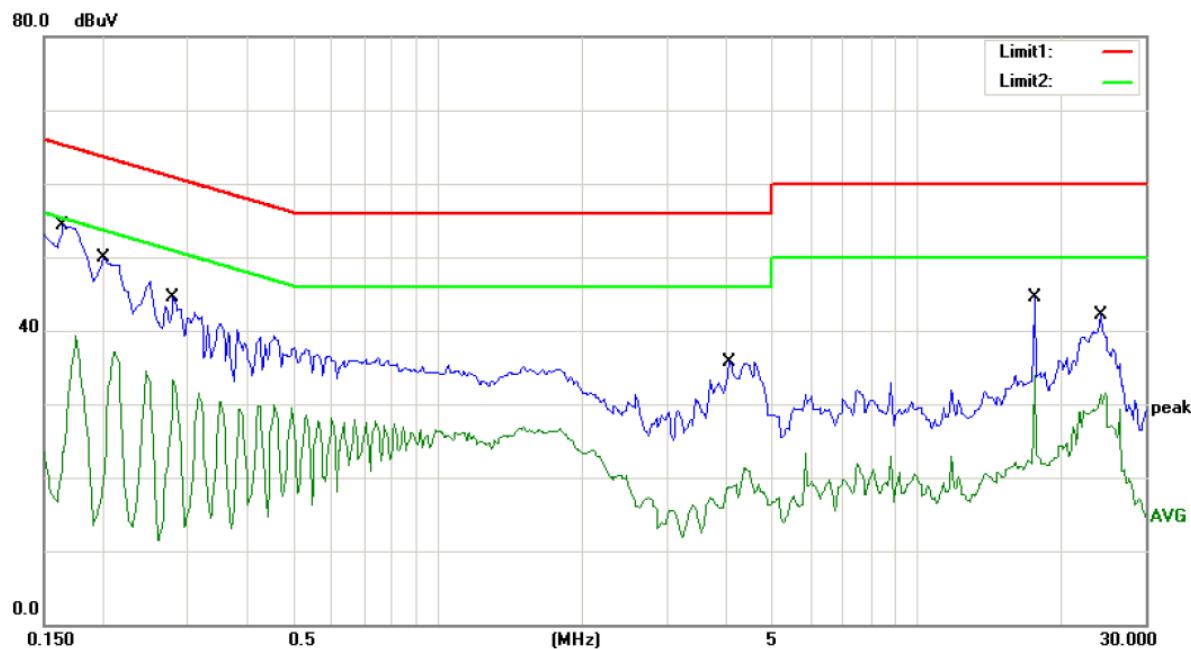
The worst (DP 1366*768, DVI 1366*768, VGA 1920*1080) scanning waveforms in below a few pages.

4.7. Measuring Results

PASS.

Please refer to below a few pages.

LM215WF3:



Site Conduction #2

Phase: *L1*

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

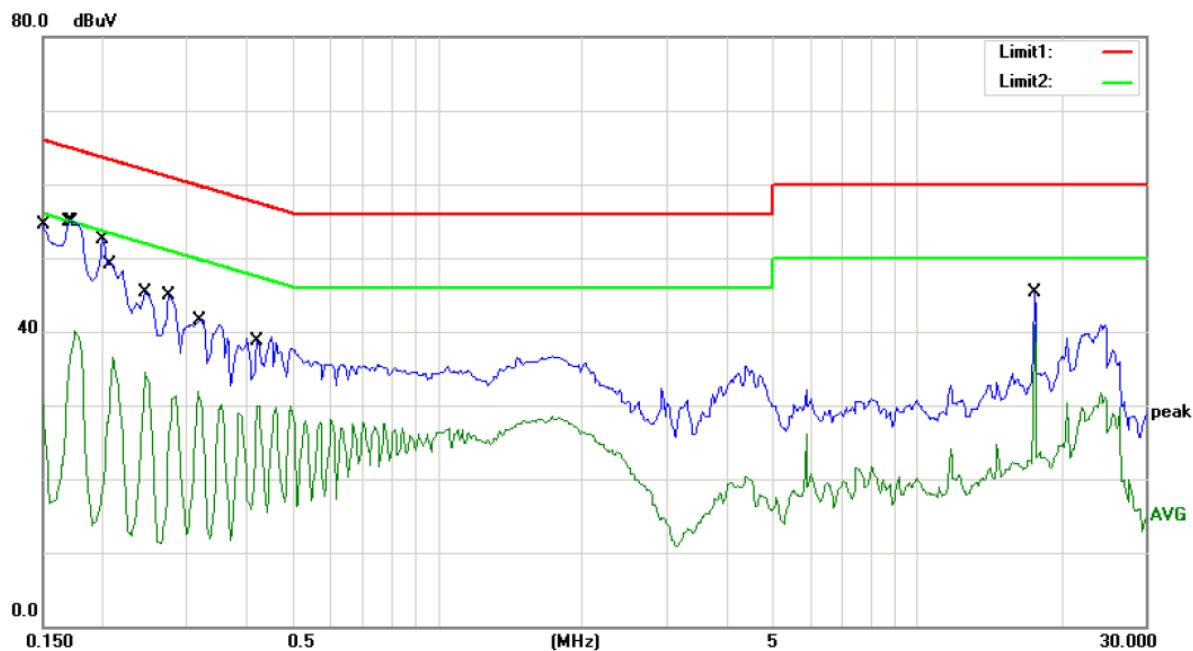
Humidity: 53 %

Mode: VGA IN (1920*1080)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1	*	0.1650	54.23	0.00	54.23	65.21	-10.98	QP	
2		0.1650	39.39	0.00	39.39	55.21	-15.82	AVG	
3		0.2000	49.86	0.00	49.86	63.61	-13.75	QP	
4		0.2000	37.18	0.00	37.18	53.61	-16.43	AVG	
5		0.2800	44.43	0.00	44.43	60.82	-16.39	QP	
6		0.2800	33.22	0.00	33.22	50.82	-17.60	AVG	
7		4.0700	35.71	0.00	35.71	56.00	-20.29	QP	
8		4.0700	21.30	0.00	21.30	46.00	-24.70	AVG	
9		17.6250	44.53	0.00	44.53	60.00	-15.47	QP	
10		17.6250	33.84	0.00	33.84	50.00	-16.16	AVG	
11		24.2000	42.10	0.00	42.10	60.00	-17.90	QP	
12		24.2000	31.48	0.00	31.48	50.00	-18.52	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: ZHL



Site Conduction #2

Phase: **N**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

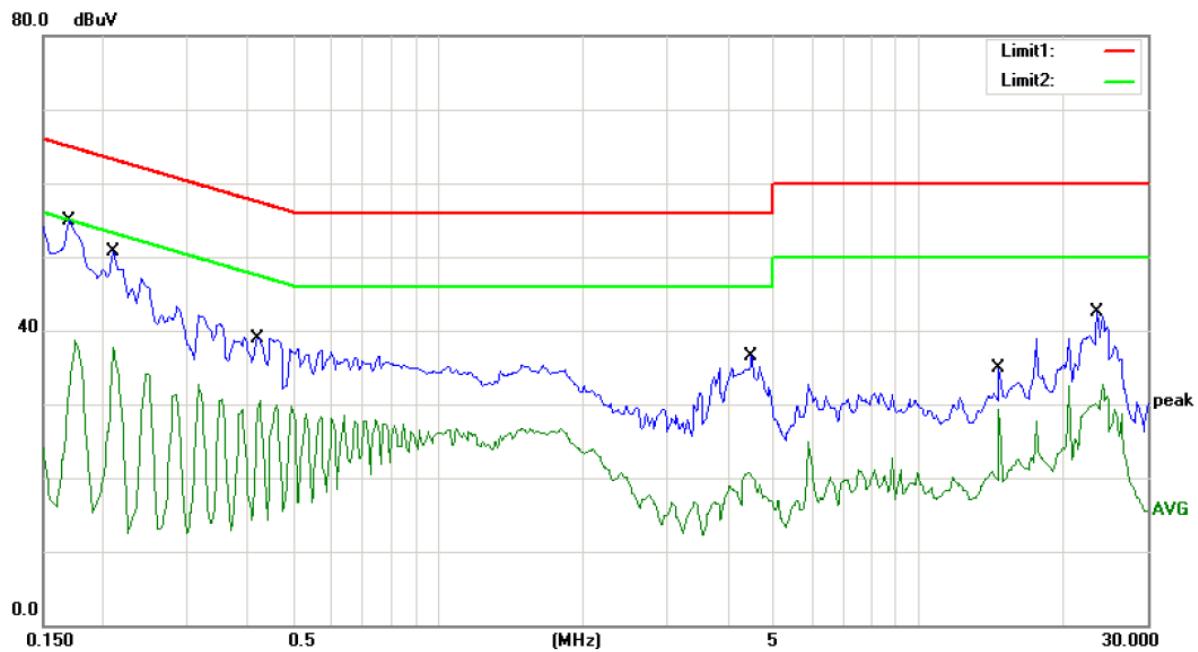
Humidity: 53 %

Mode: VGA IN (1920*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
							dBuV	dB
1		0.1500	54.56	0.00	54.56	66.00	-11.44	QP
2		0.1700	54.88	0.00	54.88	64.96	-10.08	QP
3		0.1750	40.07	0.00	40.07	54.72	-14.65	AVG
4		0.2000	52.51	0.00	52.51	63.61	-11.10	QP
5		0.2100	36.43	0.00	36.43	53.21	-16.78	AVG
6		0.2450	45.34	0.00	45.34	61.92	-16.58	QP
7		0.2450	34.50	0.00	34.50	51.92	-17.42	AVG
8		0.2750	44.87	0.00	44.87	60.97	-16.10	QP
9		0.3150	31.91	0.00	31.91	59.84	-27.93	QP
10		0.4250	29.89	0.00	29.89	47.35	-17.46	AVG
11	*	17.6250	45.39	0.00	45.39	60.00	-14.61	QP
12	*	17.6250	40.91	0.00	40.91	50.00	-9.09	AVG

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: ZHL



Site Conduction #2

Phase: **L1**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

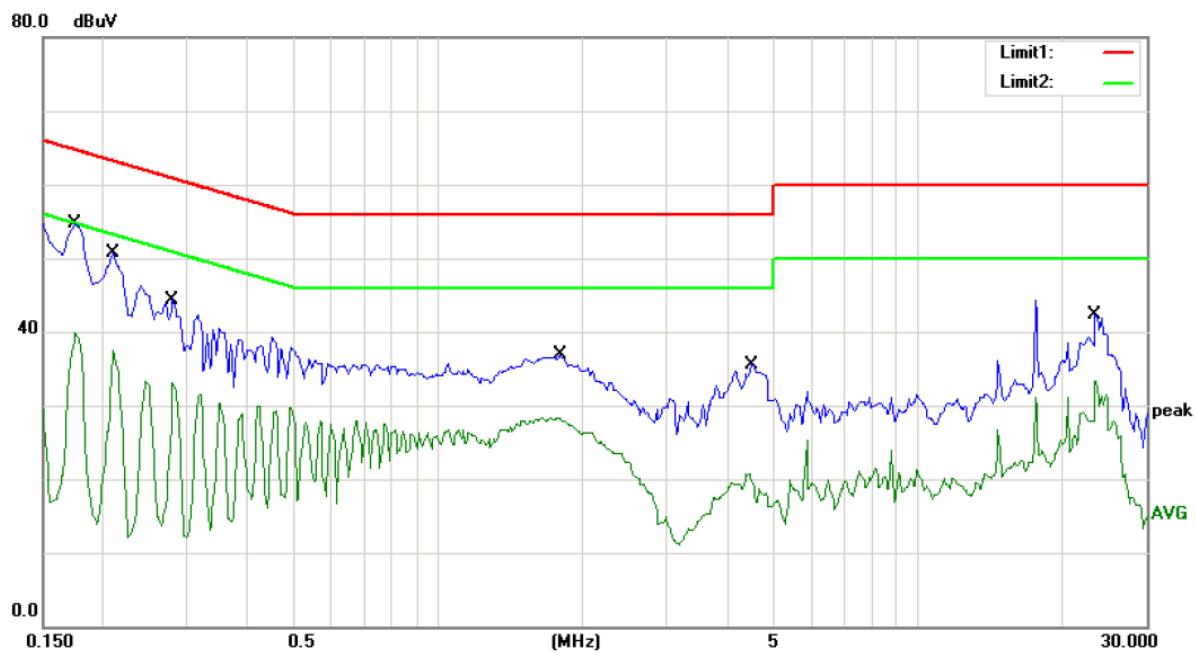
Humidity: 53 %

Mode: DVI IN (1920*1080)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over	
								Detector	Comment
1	*	0.1700	54.94	0.00	54.94	64.96	-10.02	QP	
2		0.1700	38.72	0.00	38.72	54.96	-16.24	AVG	
3		0.2100	49.89	0.00	49.89	63.21	-13.32	QP	
4		0.2100	37.67	0.00	37.67	53.21	-15.54	AVG	
5		0.4250	38.96	0.00	38.96	57.35	-18.39	QP	
6		0.4250	30.59	0.00	30.59	47.35	-16.76	AVG	
7		4.5000	36.52	0.00	36.52	56.00	-19.48	QP	
8		4.5000	20.67	0.00	20.67	46.00	-25.33	AVG	
9		14.7000	34.86	0.00	34.86	60.00	-25.14	QP	
10		14.7000	29.36	0.00	29.36	50.00	-20.64	AVG	
11		23.5250	42.43	0.00	42.43	60.00	-17.57	QP	
12		23.5250	32.67	0.00	32.67	50.00	-17.33	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: ZHL



Site Conduction #2

Phase: **N**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

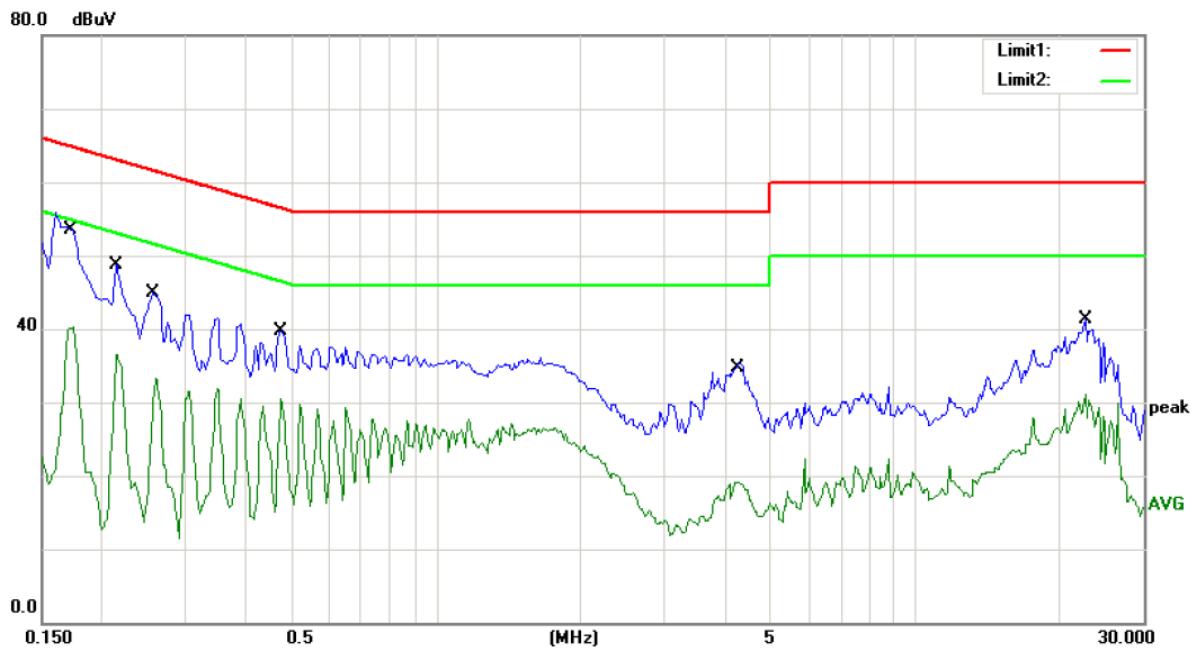
Humidity: 53 %

Mode: DVI IN (1920*1080)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1750	54.68	0.00	54.68	64.72	-10.04	QP	
2		0.1750	40.00	0.00	40.00	54.72	-14.72	AVG	
3		0.2100	50.62	0.00	50.62	63.21	-12.59	QP	
4		0.2100	37.43	0.00	37.43	53.21	-15.78	AVG	
5		0.2800	44.39	0.00	44.39	60.82	-16.43	QP	
6		0.2800	33.06	0.00	33.06	50.82	-17.76	AVG	
7		1.8000	36.81	0.00	36.81	56.00	-19.19	QP	
8		1.8000	28.39	0.00	28.39	46.00	-17.61	AVG	
9		4.5200	35.54	0.00	35.54	56.00	-20.46	QP	
10		4.5200	20.77	0.00	20.77	46.00	-25.23	AVG	
11		23.5000	42.35	0.00	42.35	60.00	-17.65	QP	
12		23.5000	33.40	0.00	33.40	50.00	-16.60	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: ZHL



Site Conduction #2

Phase: **L1**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

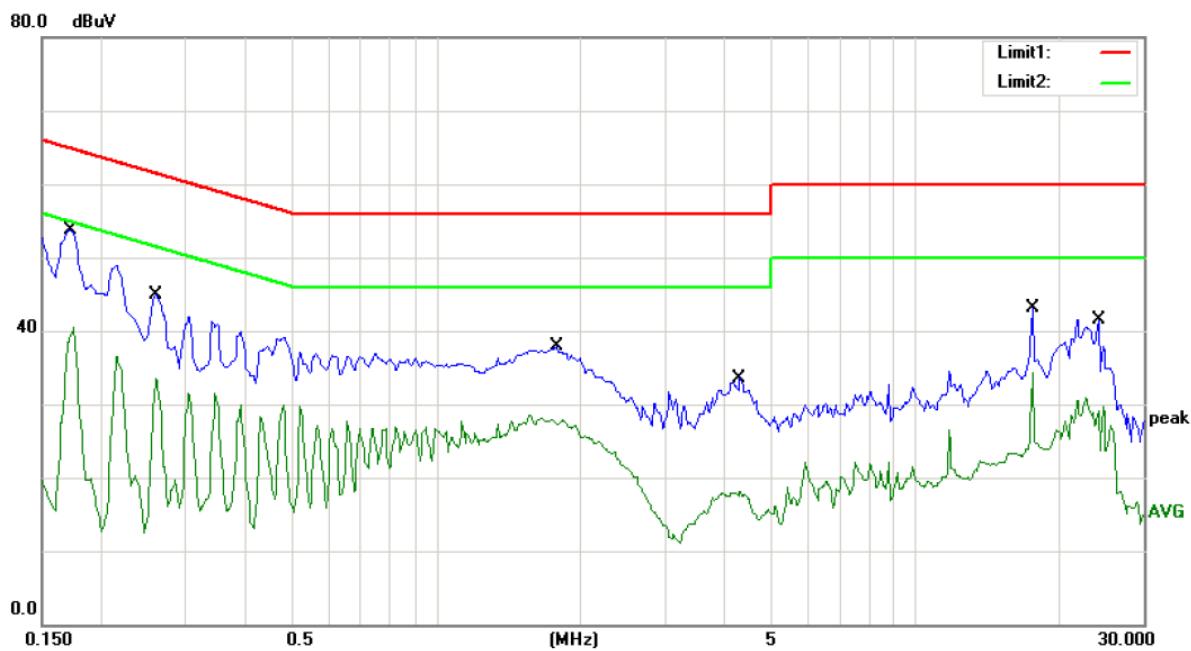
Humidity: 53 %

Mode: DP IN (1920*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
							MHz	dBuV
1	*	0.1750	54.95	0.00	54.95	64.72	-9.77	QP
2		0.1750	40.30	0.00	40.30	54.72	-14.42	AVG
3		0.2150	48.72	0.00	48.72	63.01	-14.29	QP
4		0.2150	36.54	0.00	36.54	53.01	-16.47	AVG
5		0.2600	44.95	0.00	44.95	61.43	-16.48	QP
6		0.2600	33.30	0.00	33.30	51.43	-18.13	AVG
7		0.4750	39.71	0.00	39.71	56.43	-16.72	QP
8		0.4750	30.58	0.00	30.58	46.43	-15.85	AVG
9		4.1900	35.29	0.00	35.29	56.00	-20.71	QP
10		4.1900	19.15	0.00	19.15	46.00	-26.85	AVG
11		22.7000	41.21	0.00	41.21	60.00	-18.79	QP
12		22.7000	31.04	0.00	31.04	50.00	-18.96	AVG

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: ZHL



Site Conduction #2

Phase: **N**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 53 %

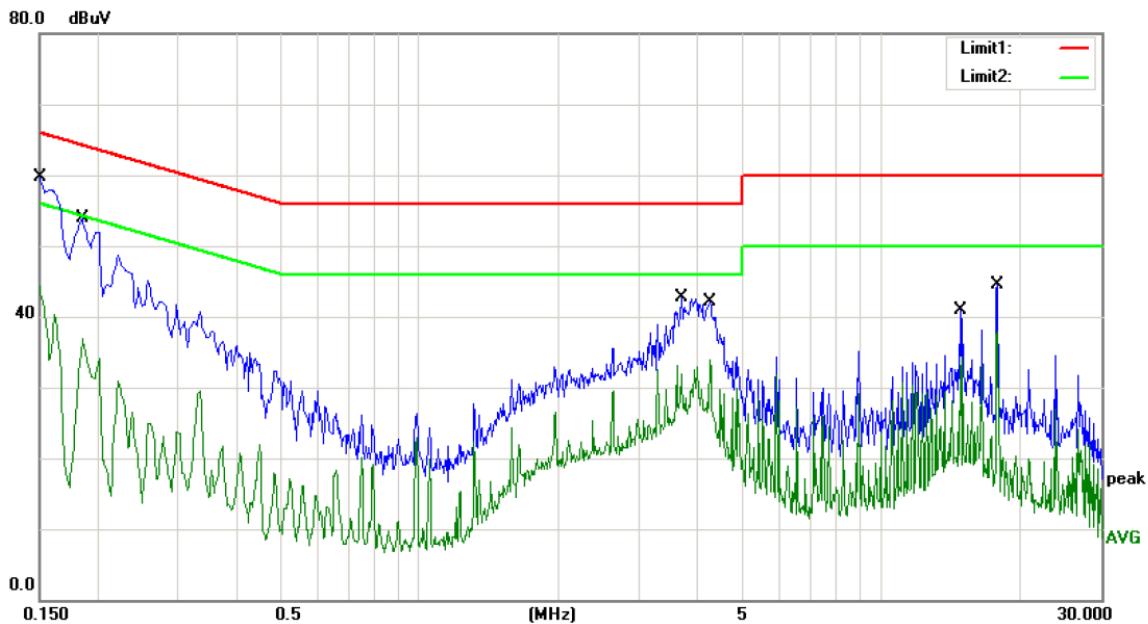
Mode: DP IN (1920*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
							dB	dBuV
1	*	0.1750	53.51	0.00	53.51	64.72	-11.21	QP
2		0.1750	40.51	0.00	40.51	54.72	-14.21	AVG
3		0.2600	44.99	0.00	44.99	61.43	-16.44	QP
4		0.2600	33.45	0.00	33.45	51.43	-17.98	AVG
5		1.7850	37.90	0.00	37.90	56.00	-18.10	QP
6		1.7850	28.52	0.00	28.52	46.00	-17.48	AVG
7		4.3100	33.56	0.00	33.56	56.00	-22.44	QP
8		4.3100	18.12	0.00	18.12	46.00	-27.88	AVG
9		17.6250	43.10	0.00	43.10	60.00	-16.90	QP
10		17.6250	34.23	0.00	34.23	50.00	-15.77	AVG
11		24.1750	41.49	0.00	41.49	60.00	-18.51	QP
12		24.1750	30.80	0.00	30.80	50.00	-19.20	AVG

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: ZHL

T215HVN01.0:



Site Conduction #1

Phase: *L1*

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

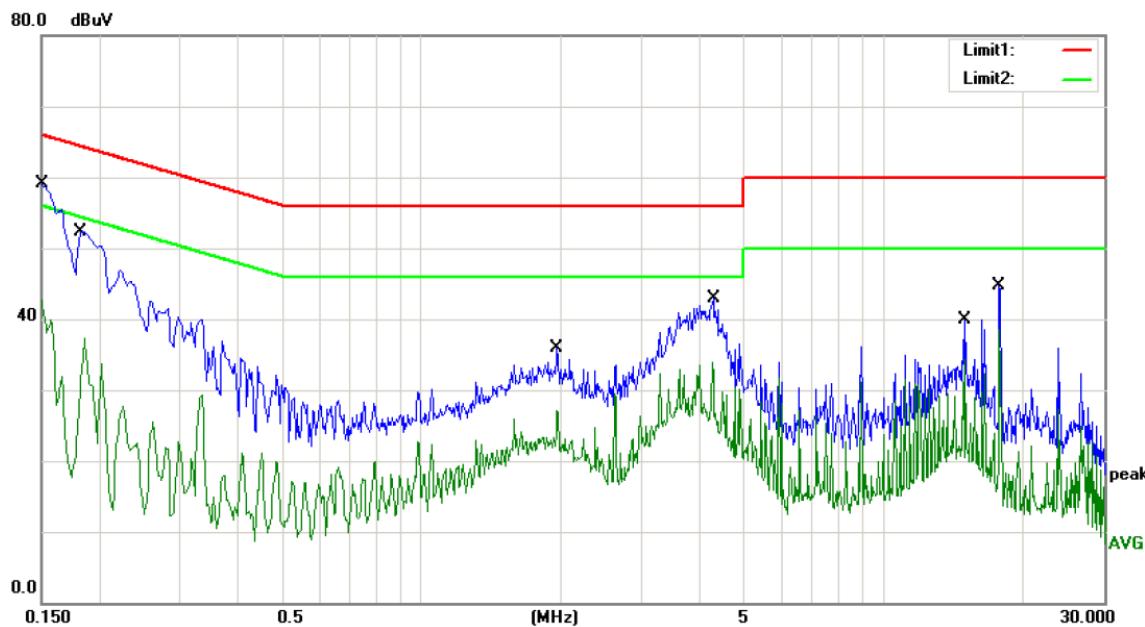
Humidity: 60 %

Mode: VGA IN(1920*1080)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	*	0.1500	59.69	0.00	59.69	66.00	-6.31	QP	
2		0.1500	44.25	0.00	44.25	56.00	-11.75	AVG	
3		0.1860	53.84	0.00	53.84	64.21	-10.37	QP	
4		0.1860	36.80	0.00	36.80	54.21	-17.41	AVG	
5		3.7100	42.68	0.00	42.68	56.00	-13.32	QP	
6		3.7100	33.02	0.00	33.02	46.00	-12.98	AVG	
7		4.2660	42.06	0.00	42.06	56.00	-13.94	QP	
8		4.2660	33.90	0.00	33.90	46.00	-12.10	AVG	
9		14.8700	40.88	0.00	40.88	60.00	-19.12	QP	
10		14.8700	34.36	0.00	34.36	50.00	-15.64	AVG	
11		17.8500	44.41	0.00	44.41	60.00	-15.59	QP	
12		17.8500	37.88	0.00	37.88	50.00	-12.12	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP



Site Conduction #1

Phase: *N*

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

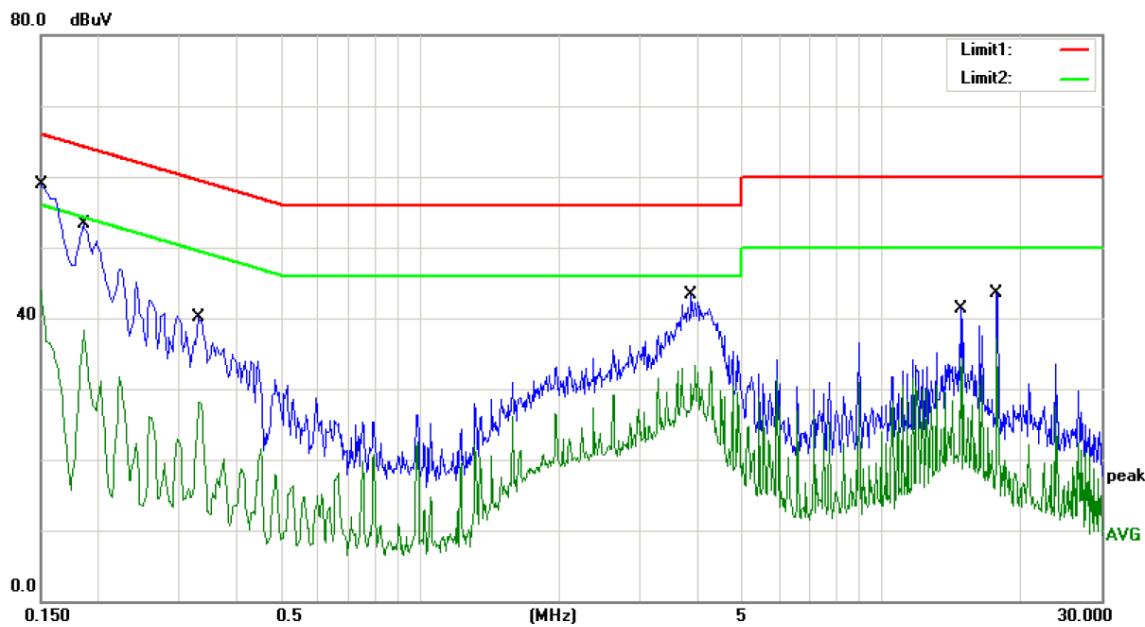
Humidity: 60 %

Mode: VGA IN(1920*1080)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	59.04	0.00	59.04	66.00	-6.96	QP	
2		0.1500	42.75	0.00	42.75	56.00	-13.25	AVG	
3		0.1820	52.39	0.00	52.39	64.39	-12.00	QP	
4		0.1820	37.23	0.00	37.23	54.39	-17.16	AVG	
5		1.9660	35.81	0.00	35.81	56.00	-20.19	QP	
6		1.9660	27.14	0.00	27.14	46.00	-18.86	AVG	
7		4.2820	42.96	0.00	42.96	56.00	-13.04	QP	
8		4.2820	33.89	0.00	33.89	46.00	-12.11	AVG	
9		15.0300	39.94	0.00	39.94	60.00	-20.06	QP	
10		15.0300	34.29	0.00	34.29	50.00	-15.71	AVG	
11		17.8420	44.80	0.00	44.80	60.00	-15.20	QP	
12		17.8420	38.48	0.00	38.48	50.00	-11.52	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP



Site Conduction #1

Phase: **L1**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

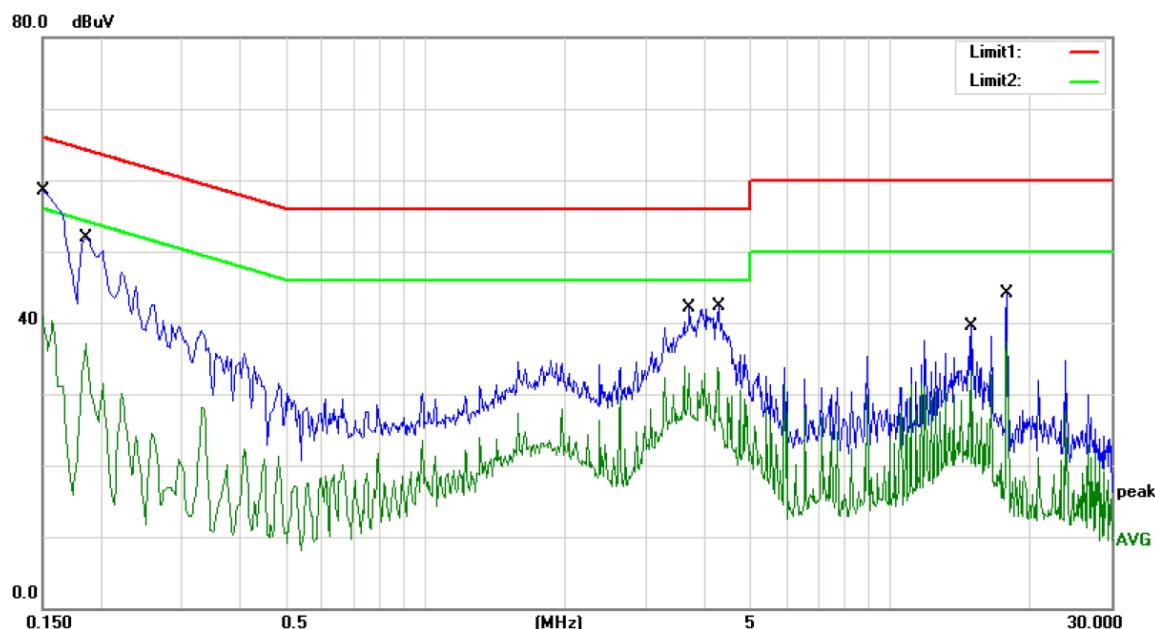
Humidity: 60 %

Mode: DVI IN(1920*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	58.91	0.00	58.91	66.00	-7.09	QP	
2		0.1500	43.99	0.00	43.99	56.00	-12.01	AVG	
3		0.1864	52.92	0.00	52.92	64.20	-11.28	QP	
4		0.1864	38.39	0.00	38.39	54.20	-15.81	AVG	
5		0.3300	40.03	0.00	40.03	59.45	-19.42	QP	
6		0.3300	28.08	0.00	28.08	49.45	-21.37	AVG	
7		3.8780	43.30	0.00	43.30	56.00	-12.70	QP	
8		3.8780	33.34	0.00	33.34	46.00	-12.66	AVG	
9		14.8740	41.29	0.00	41.29	60.00	-18.71	QP	
10		14.8740	34.33	0.00	34.33	50.00	-15.67	AVG	
11		17.8380	43.48	0.00	43.48	60.00	-16.52	QP	
12		17.8380	37.16	0.00	37.16	50.00	-12.84	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP



Site Conduction #1

Phase: **N**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

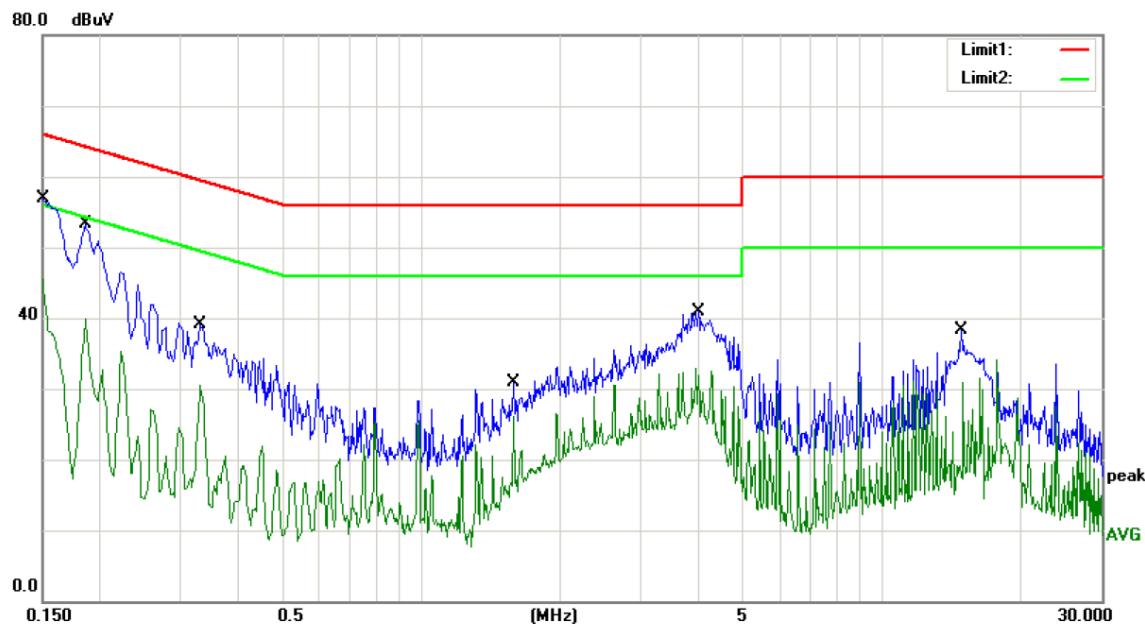
Humidity: 60 %

Mode: DVI IN(1920*1080)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	58.53	0.00	58.53	66.00	-7.47	QP	
2		0.1500	40.85	0.00	40.85	56.00	-15.15	AVG	
3		0.1860	51.95	0.00	51.95	64.21	-12.26	QP	
4		0.1860	37.03	0.00	37.03	54.21	-17.18	AVG	
5		3.7100	42.18	0.00	42.18	56.00	-13.82	QP	
6		3.7100	33.86	0.00	33.86	46.00	-12.14	AVG	
7		4.2820	42.39	0.00	42.39	56.00	-13.61	QP	
8		4.2820	33.61	0.00	33.61	46.00	-12.39	AVG	
9		15.0300	39.41	0.00	39.41	60.00	-20.59	QP	
10		15.0300	33.02	0.00	33.02	50.00	-16.98	AVG	
11		17.8500	44.14	0.00	44.14	60.00	-15.86	QP	
12		17.8500	37.34	0.00	37.34	50.00	-12.66	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP



Site Conduction #1

Phase: **L1**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

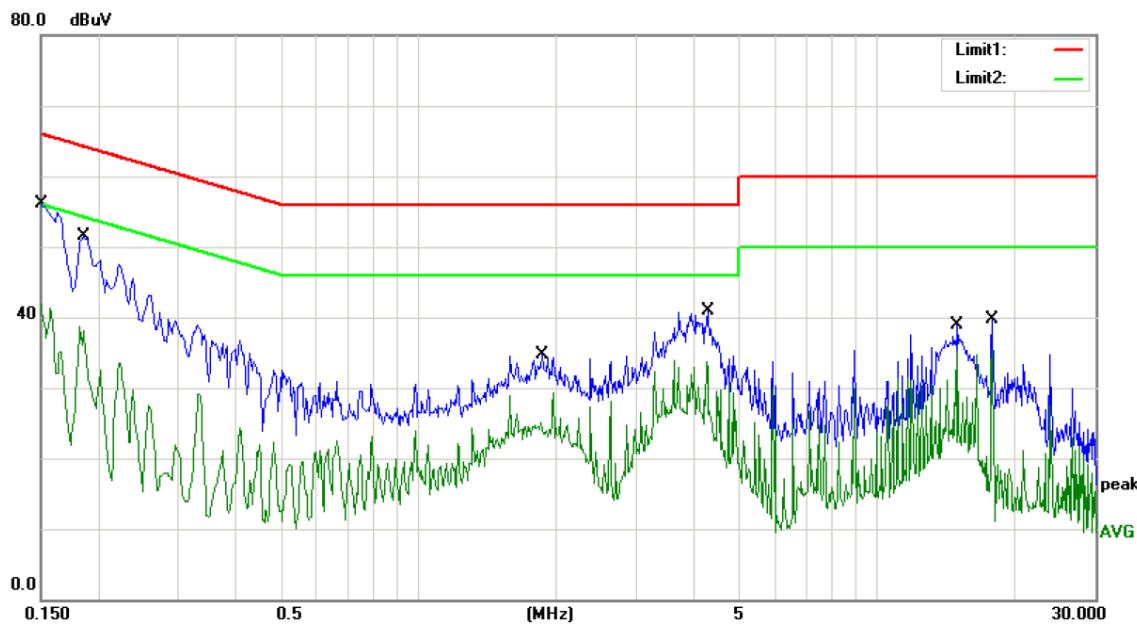
Humidity: 60 %

Mode: DP IN(1920*1080)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	56.91	0.00	56.91	66.00	-9.09	QP	
2		0.1500	45.49	0.00	45.49	56.00	-10.51	AVG	
3		0.1860	53.26	0.00	53.26	64.21	-10.95	QP	
4		0.1860	39.89	0.00	39.89	54.21	-14.32	AVG	
5		0.3300	39.03	0.00	39.03	59.45	-20.42	QP	
6		0.3300	30.58	0.00	30.58	49.45	-18.87	AVG	
7		1.5860	30.98	0.00	30.98	56.00	-25.02	QP	
8		1.5860	26.13	0.00	26.13	46.00	-19.87	AVG	
9		3.9980	40.89	0.00	40.89	56.00	-15.11	QP	
10		3.9980	32.84	0.00	32.84	46.00	-13.16	AVG	
11		14.8740	38.29	0.00	38.29	60.00	-21.71	QP	
12		14.8740	30.83	0.00	30.83	50.00	-19.17	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP



Site Conduction #1

Phase: **N**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 60 %

Mode: DP IN(1920*1080)

Note:

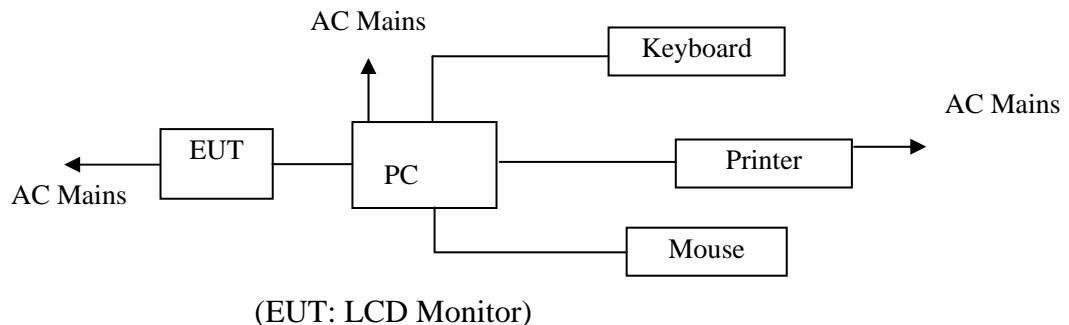
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1	*	0.1500	56.03	0.00	56.03	66.00	-9.97	QP
2		0.1500	41.85	0.00	41.85	56.00	-14.15	AVG
3		0.1860	51.45	0.00	51.45	64.21	-12.76	QP
4		0.1860	38.78	0.00	38.78	54.21	-15.43	AVG
5		1.8620	34.78	0.00	34.78	56.00	-21.22	QP
6		1.8620	29.34	0.00	29.34	46.00	-16.66	AVG
7		4.2820	40.89	0.00	40.89	56.00	-15.11	QP
8		4.2820	33.86	0.00	33.86	46.00	-12.14	AVG
9		15.0300	38.91	0.00	38.91	60.00	-21.09	QP
10		15.0300	35.02	0.00	35.02	50.00	-14.98	AVG
11		17.8500	39.64	0.00	39.64	60.00	-20.36	QP
12		17.8500	35.34	0.00	35.34	50.00	-14.66	AVG

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP

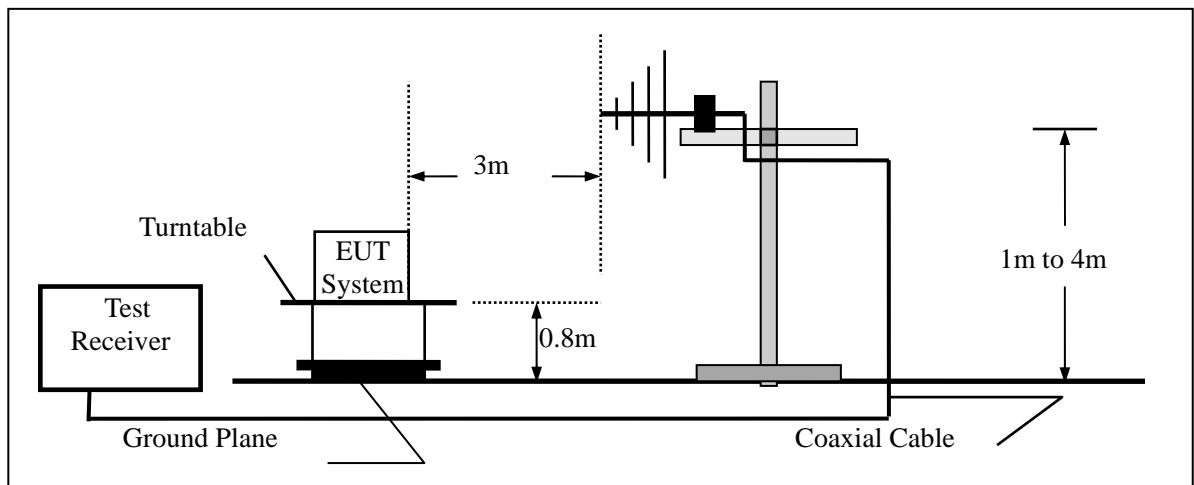
5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

5.1.1. Block diagram of EUT System



5.1.2. Block diagram of test setup (In chamber)



5.2. Measuring Standard

FCC Part 15, Subpart B, Class B ANSI C63.4: 2009

5.3.Radiated Emission Limits (class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μ V/m	dB(μ V)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Frequency (GHz)	Distance (Meters)	Field Strengths Limit	
		Average (dB μ V/m)	Peak (dB μ V/m)
1~6	3	54	74

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

5.4.Configuration of EUT on Measurement

The FCC Class B regulations test method must be used to find the maximum emission during radiated emission measurement.

EUT : LCD Monitor
Model Number : C22WT

5.5.Operating Condition of EUT

5.5.1.Setup the EUT as shown on Section 5.1.

5.5.2.Turn on the power of all equipments.

5.5.3.Let the EUT work in measuring mode (DP, DVI, VGA) and measure it.

5.6.Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) or horn antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESU26) is set at 120kHz.

The worst(VGA mode 1920*1080, VGA mode 800*600, DP 1920*1080, DP 800*600, CVBS in) scanning curves in below a few pages.

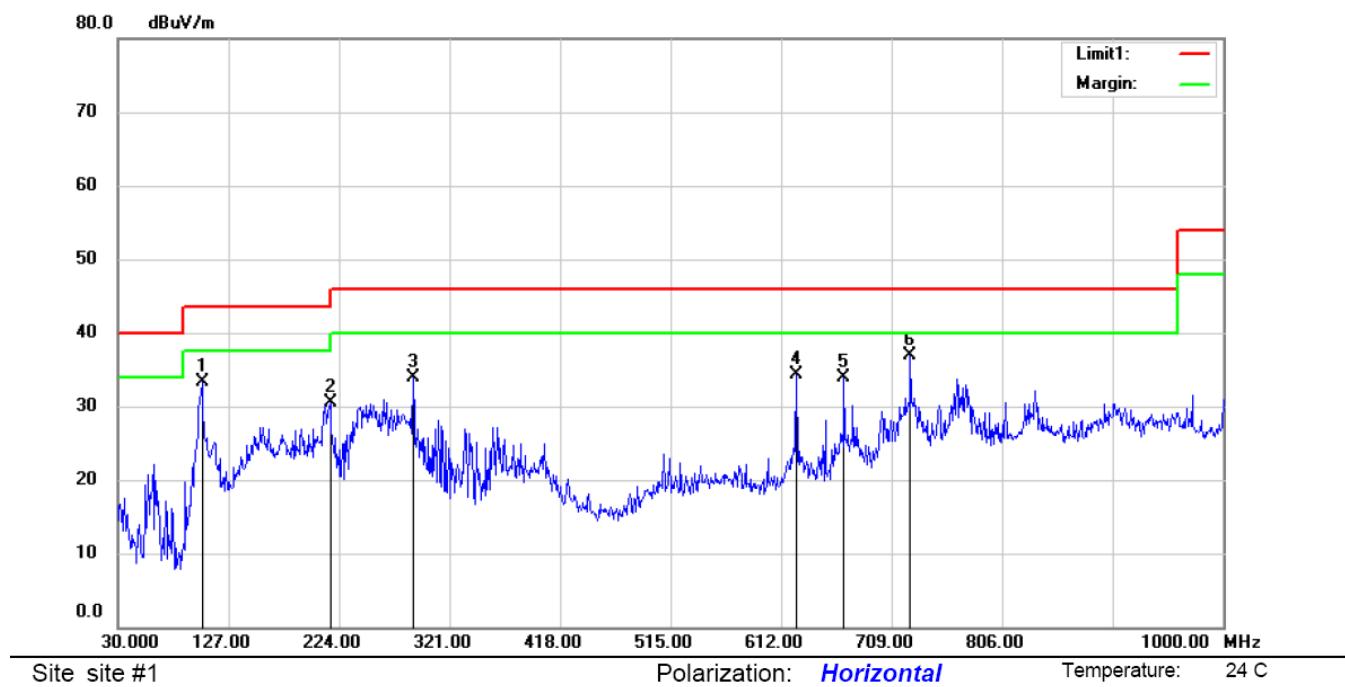
5.7.Measuring Results

PASS.

The frequency range from 30MHz to 6GHz is investigated.

Please refer to below a few pages.

LM215WF3:



Site site #1

Polarization: *Horizontal*

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

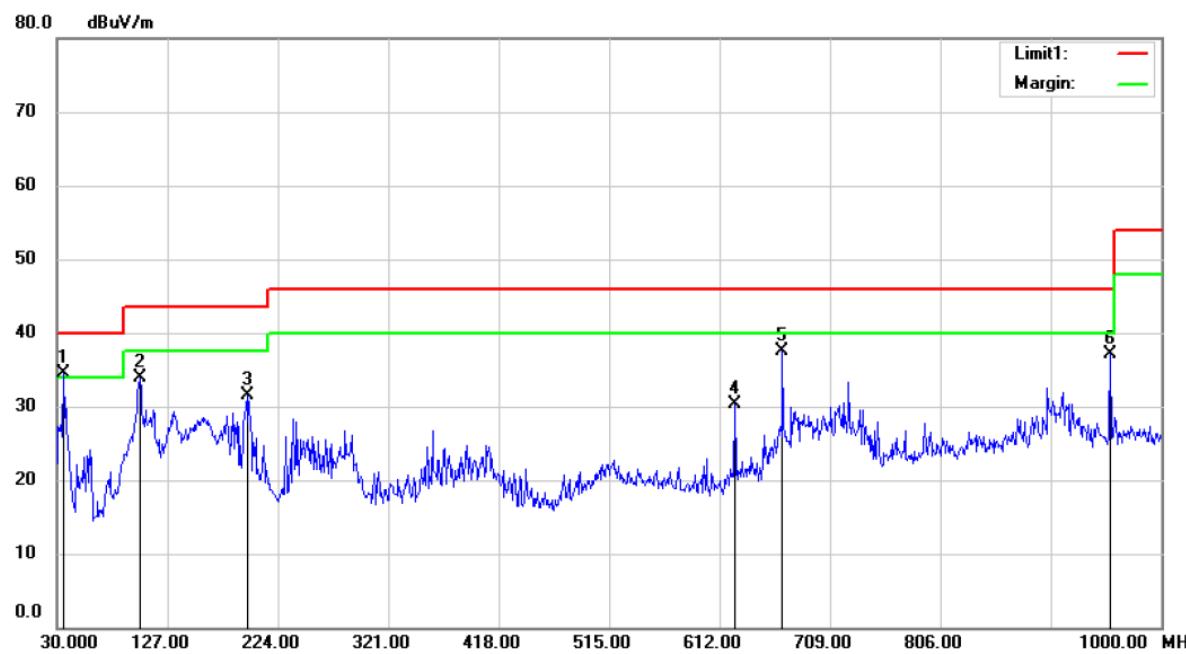
Mode: VGA IN 1920*1080

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	103.7200	54.95	-21.70	33.25	43.50	-10.25	QP			
2	216.2400	53.53	-23.10	30.43	46.00	-15.57	QP			
3	288.9900	53.39	-19.42	33.97	46.00	-12.03	QP			
4	625.5800	46.27	-11.95	34.32	46.00	-11.68	QP			
5	667.2900	45.28	-11.31	33.97	46.00	-12.03	QP			
6	*	725.4900	46.82	-9.88	36.94	46.00	-9.06	QP		

*:Maximum data x:Over limit !:over margin

Operator: Wang



Site site #1

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V//60Hz

Humidity: 53 %

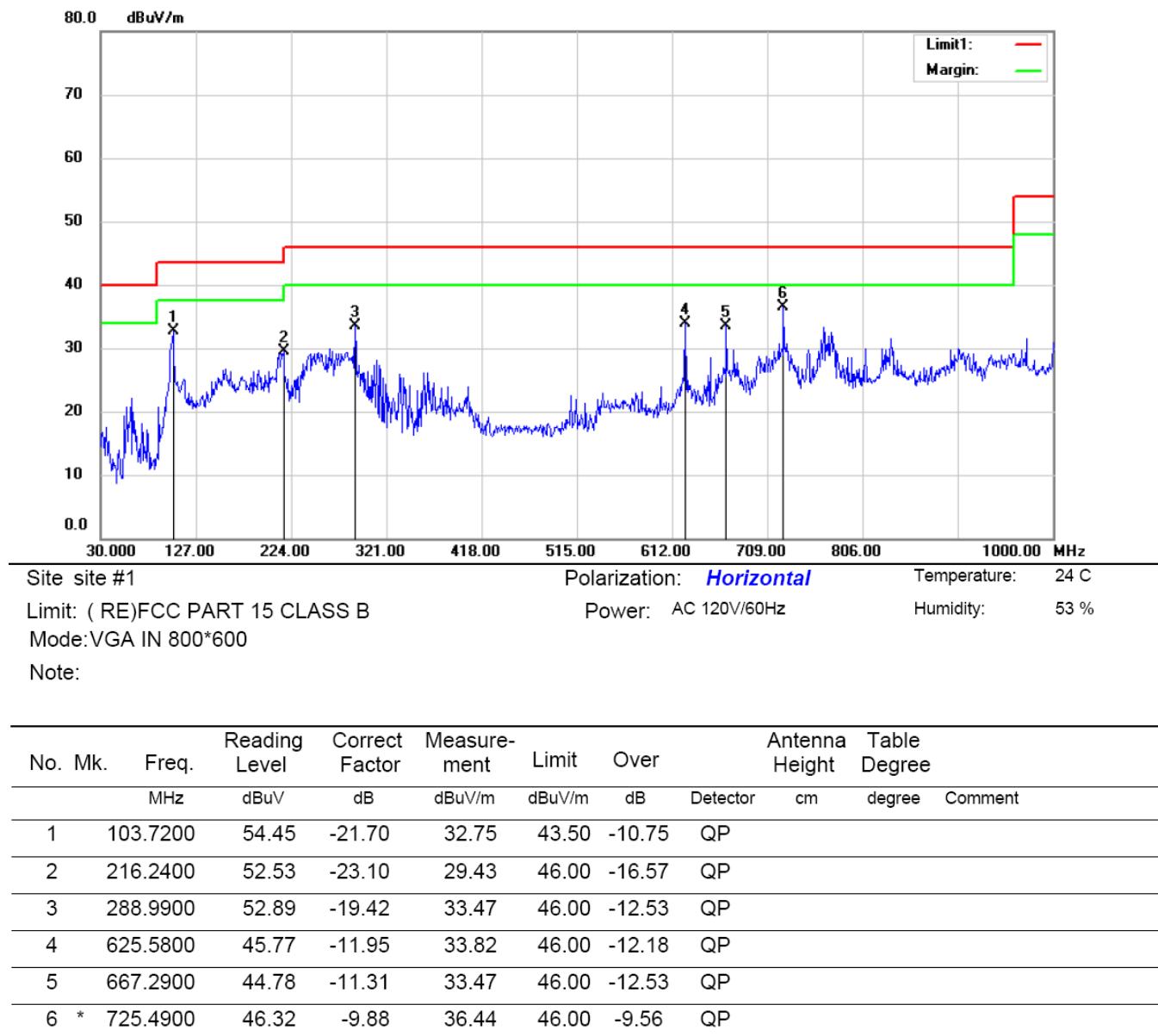
Mode: VGA IN 1920*1080

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	35.8200	56.44	-22.01	34.43	40.00	-5.57	QP		
2		102.7500	55.63	-21.69	33.94	43.50	-9.56	QP		
3		196.8400	54.97	-23.54	31.43	43.50	-12.07	QP		
4		625.5800	42.23	-11.95	30.28	46.00	-15.72	QP		
5		667.2900	48.73	-11.31	37.42	46.00	-8.58	QP		
6		955.3800	41.80	-4.73	37.07	46.00	-8.93	QP		

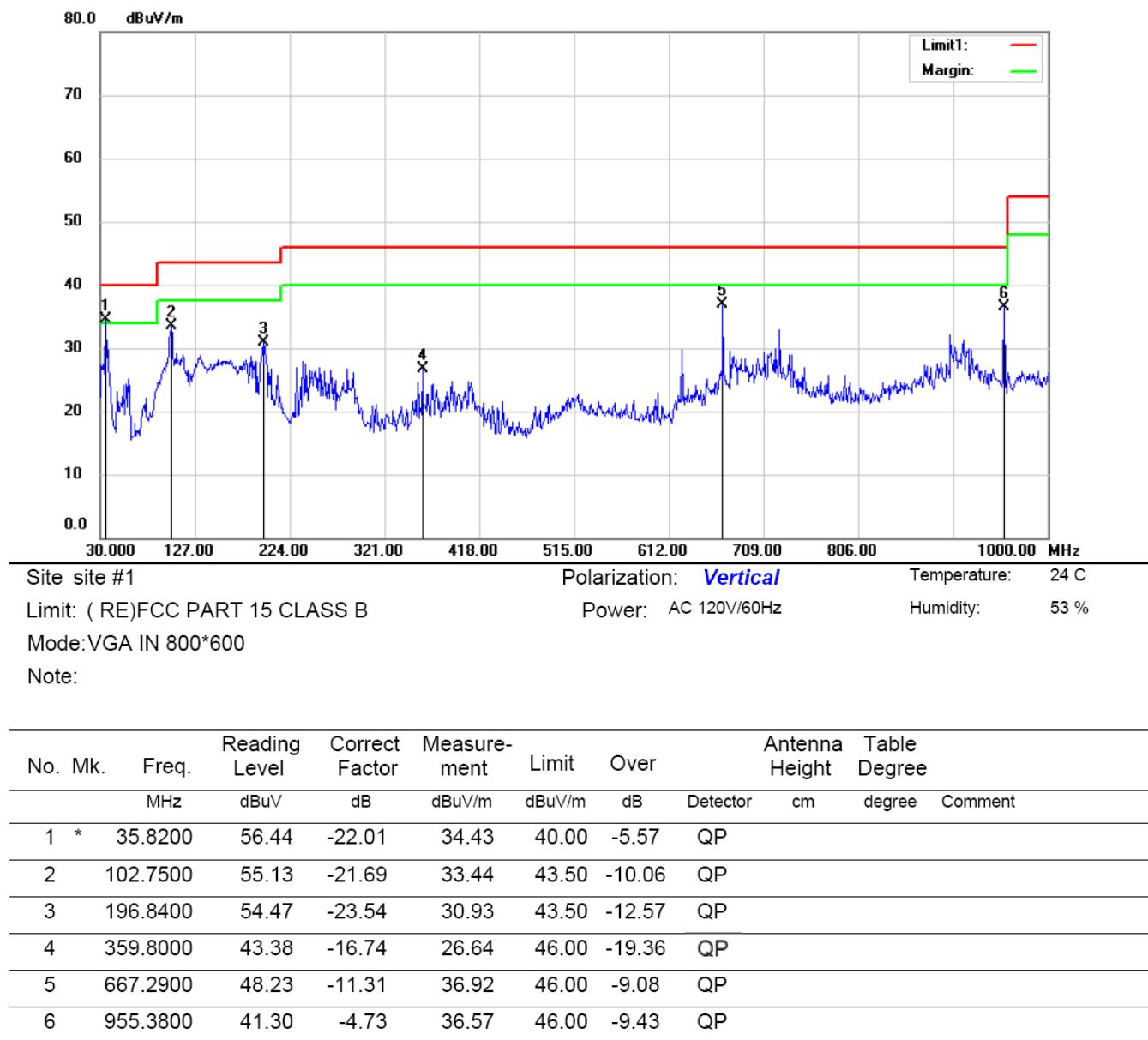
*:Maximum data x:Over limit !:over margin

Operator: Wang



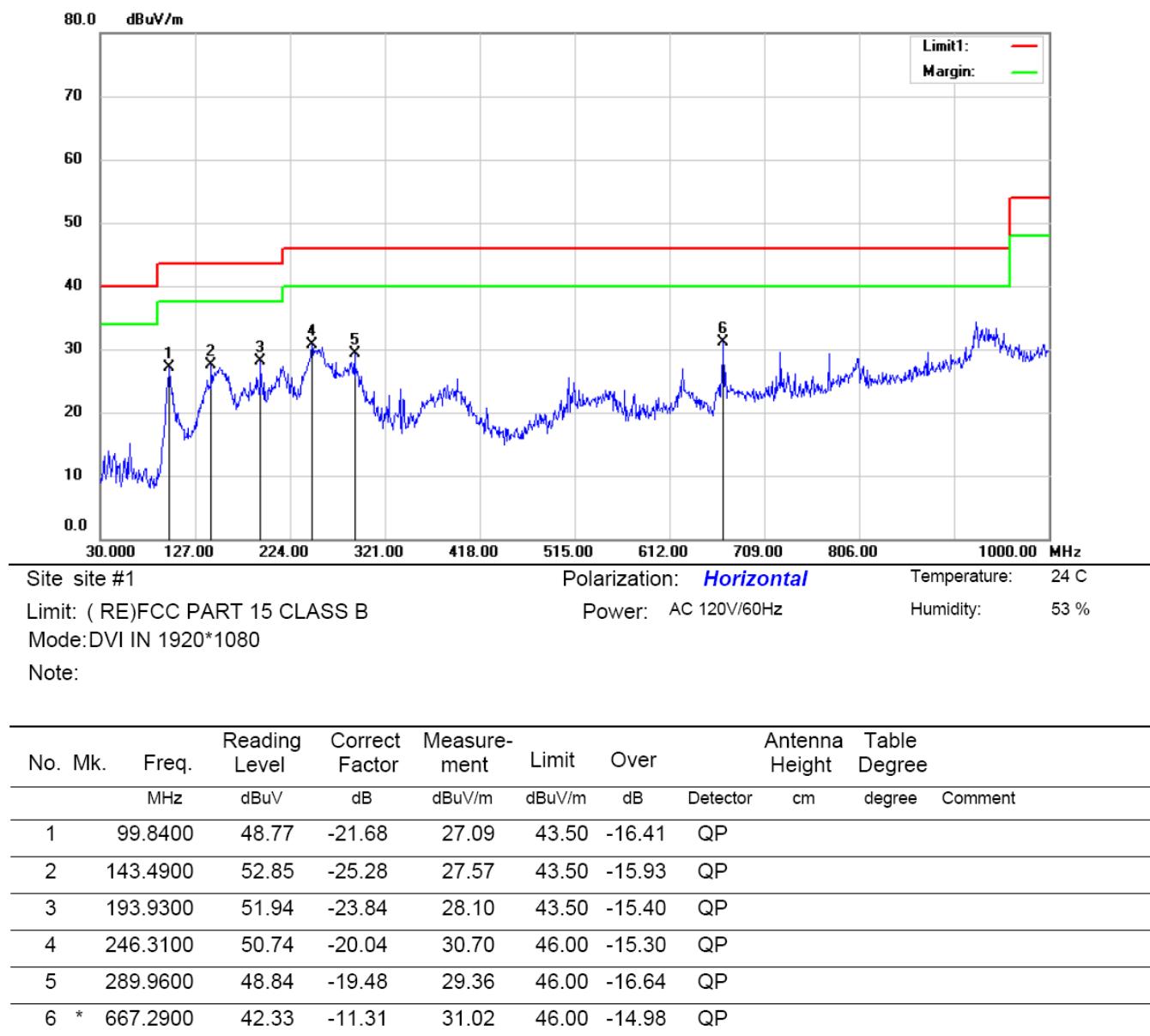
*:Maximum data x:Over limit !:over margin

Operator: Wang



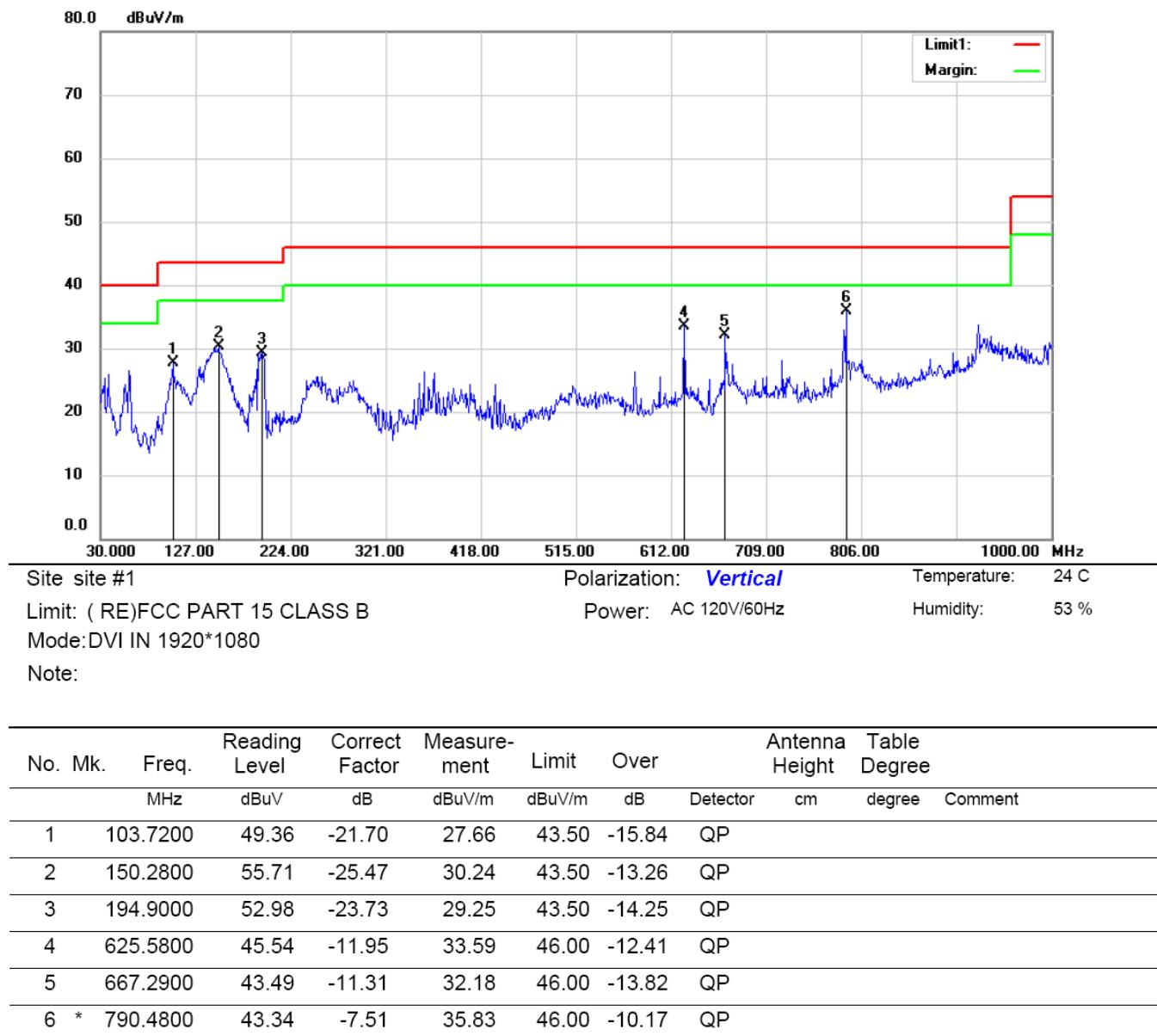
*:Maximum data x:Over limit !:over margin

Operator: Wang



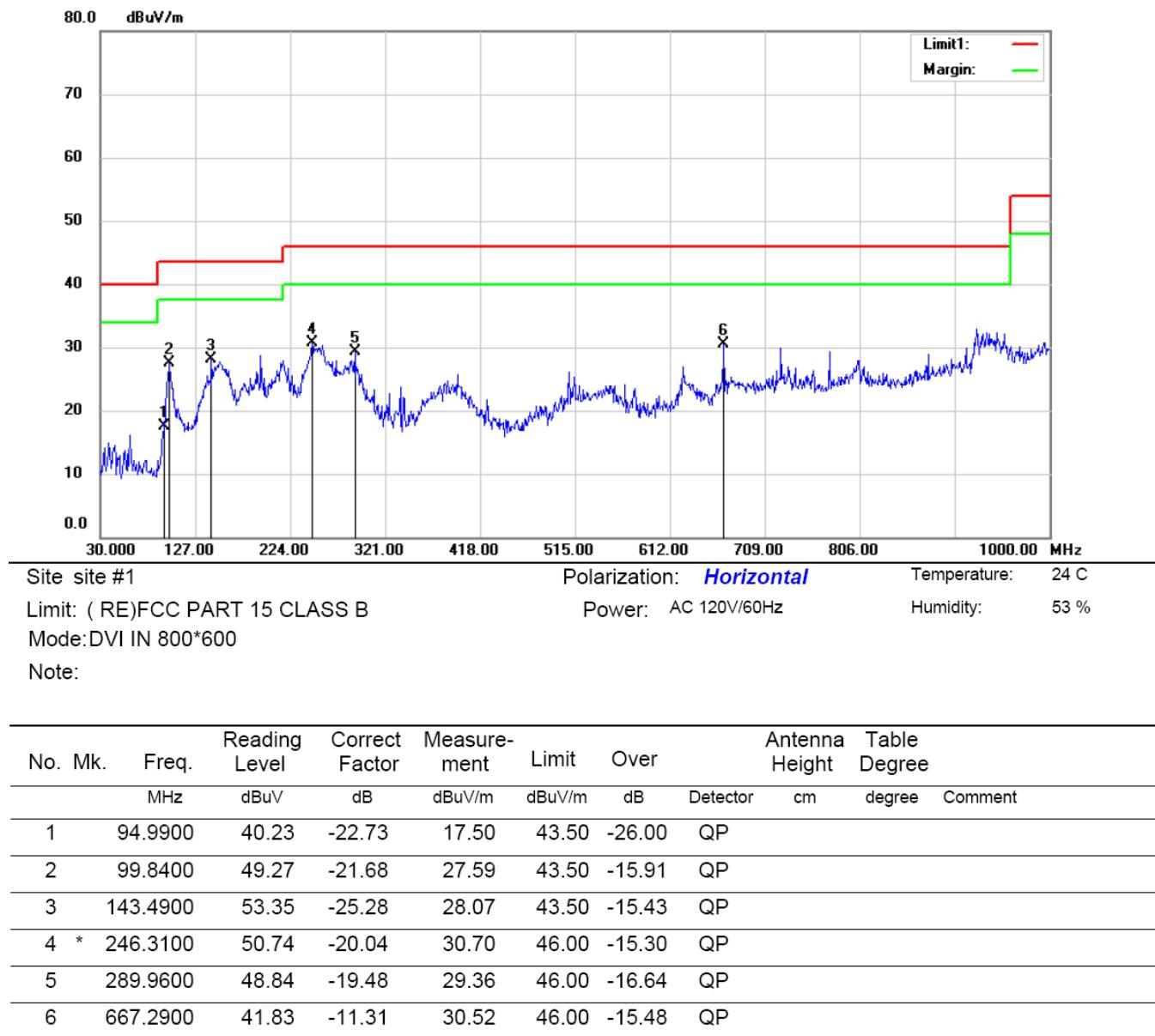
*:Maximum data x:Over limit !:over margin

Operator: Wang



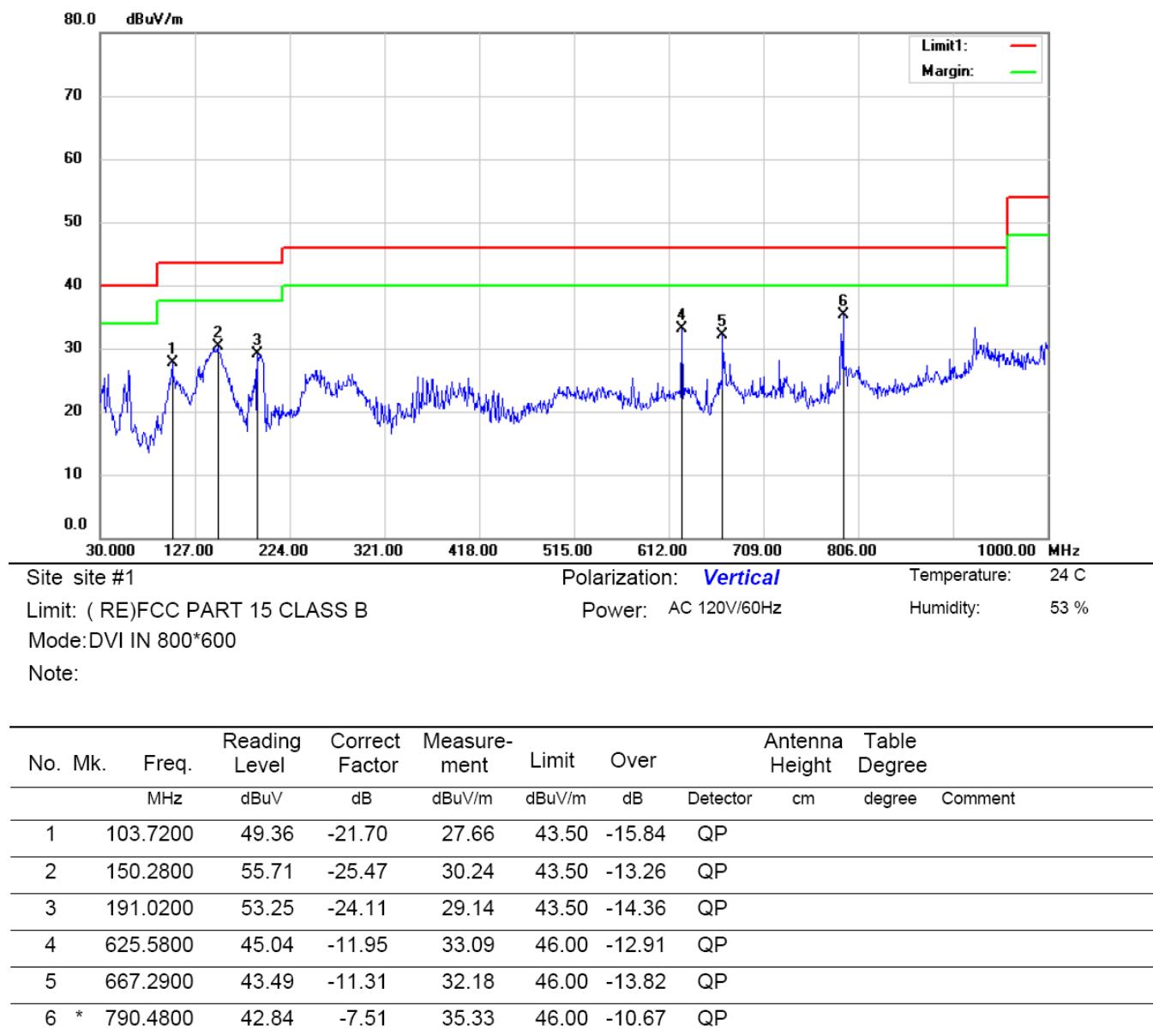
*:Maximum data x:Over limit l:over margin

Operator: Wang



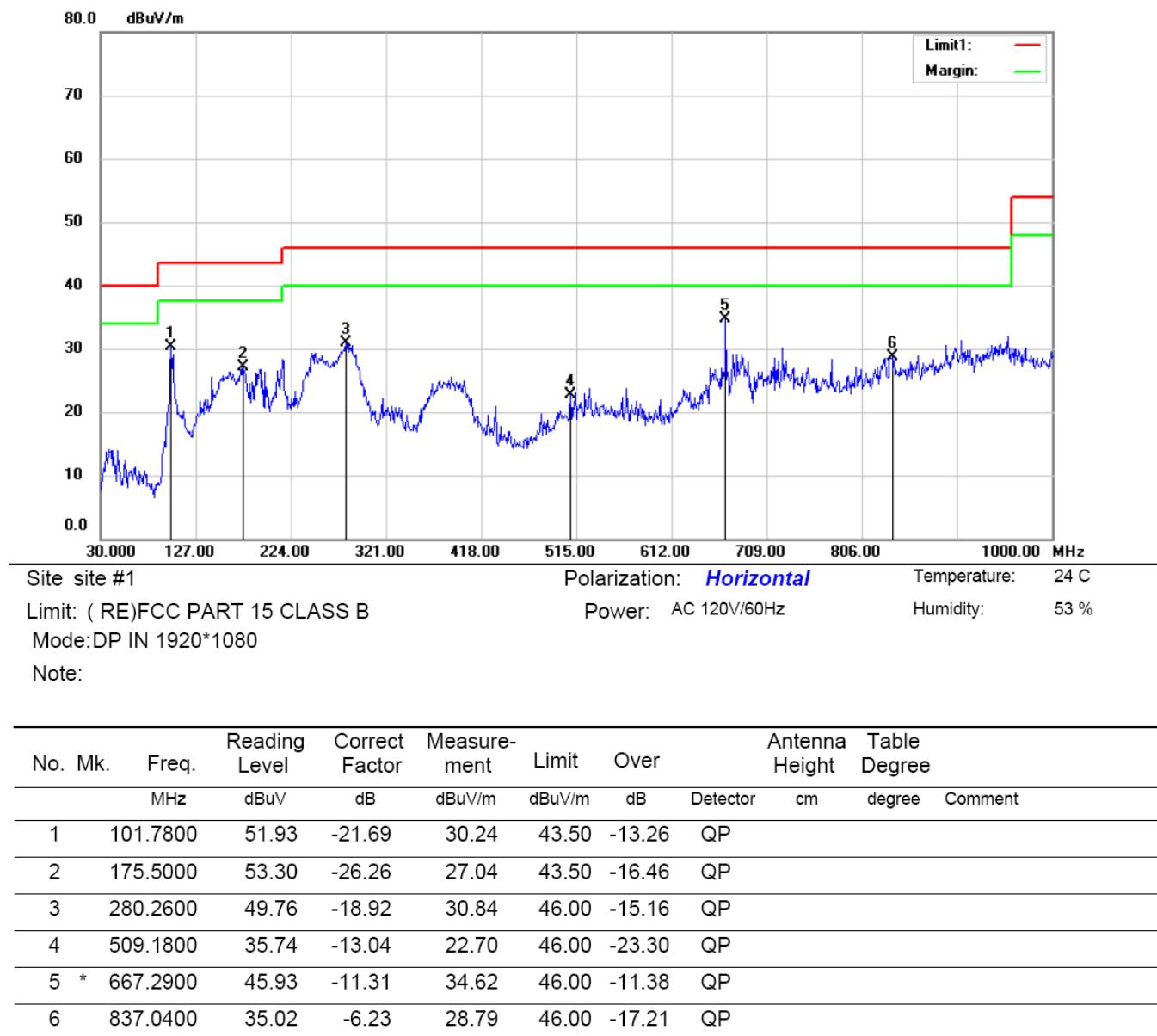
*:Maximum data x:Over limit !:over margin

Operator: Wang



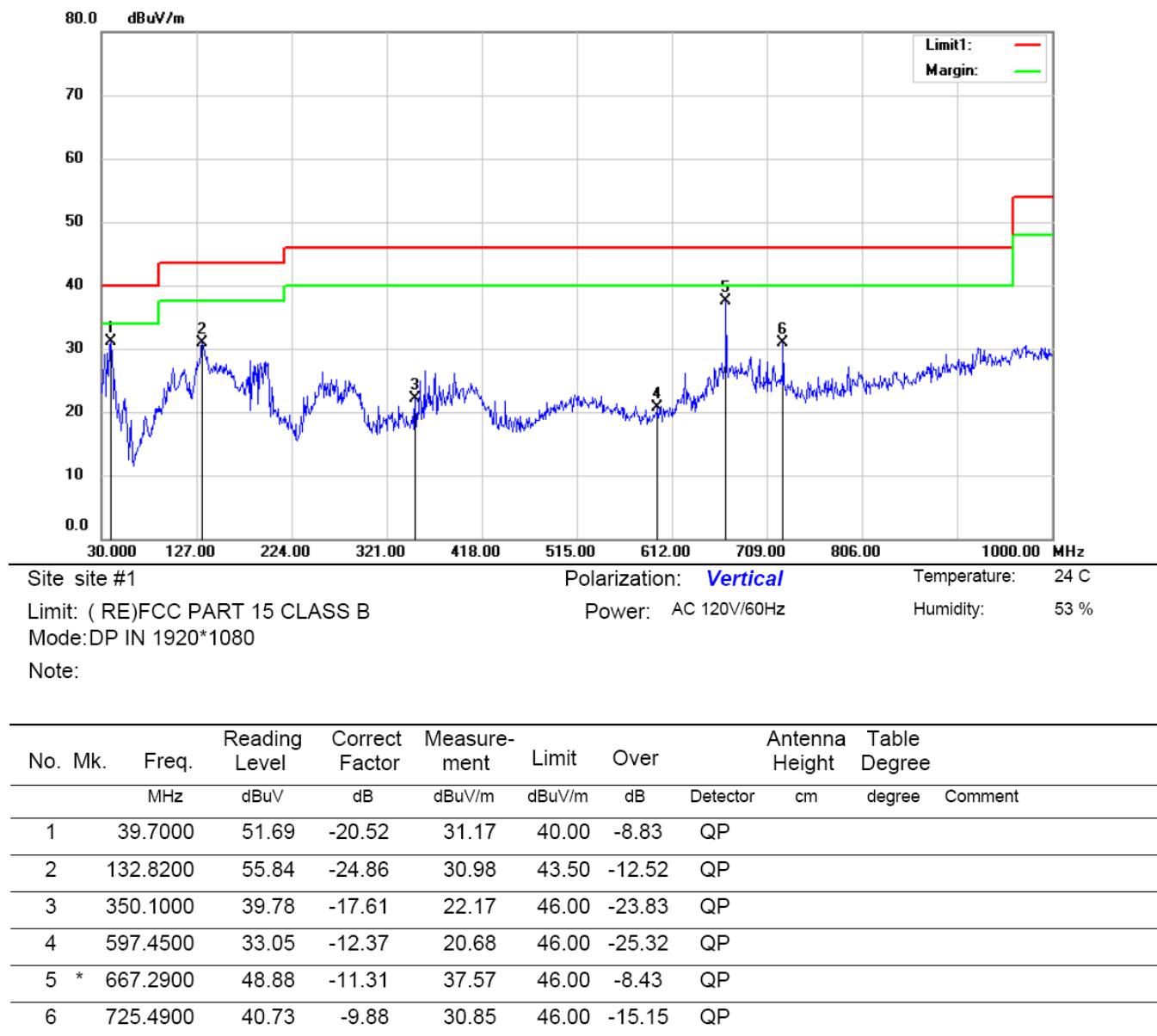
*:Maximum data x:Over limit !:over margin

Operator: Wang



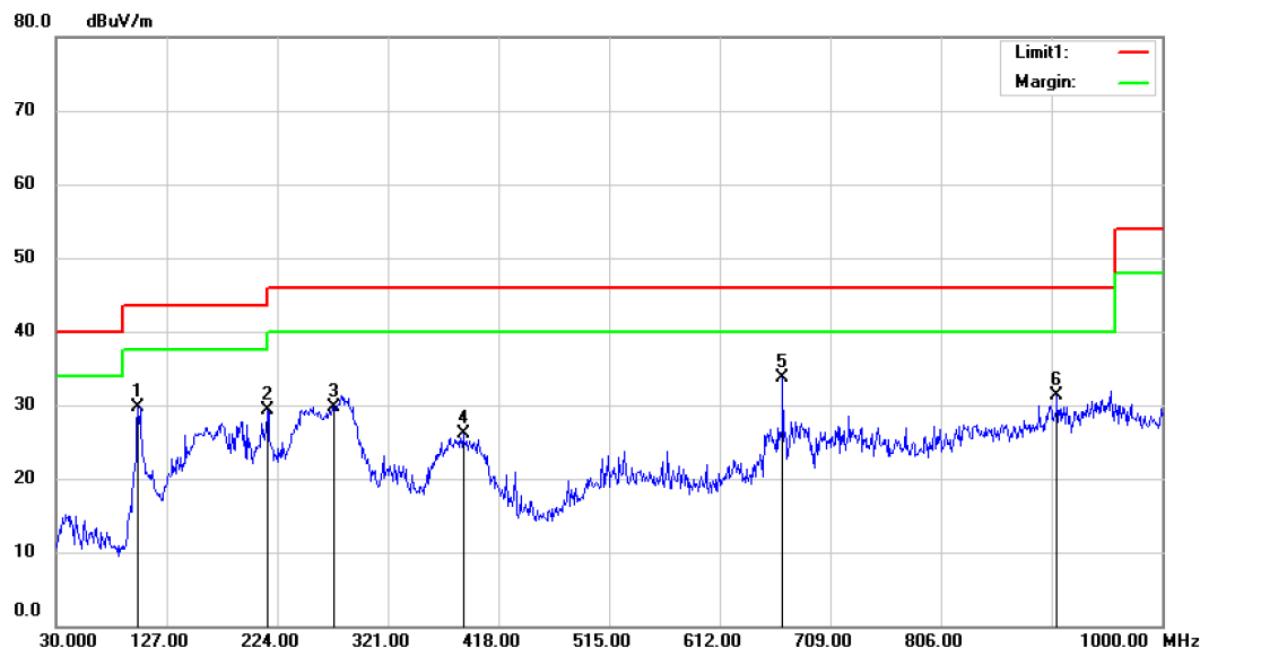
*:Maximum data x:Over limit !:over margin

Operator: Wang



*:Maximum data x:Over limit !:over margin

Operator: Wang



Site site #1

Polarization: *Horizontal*

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

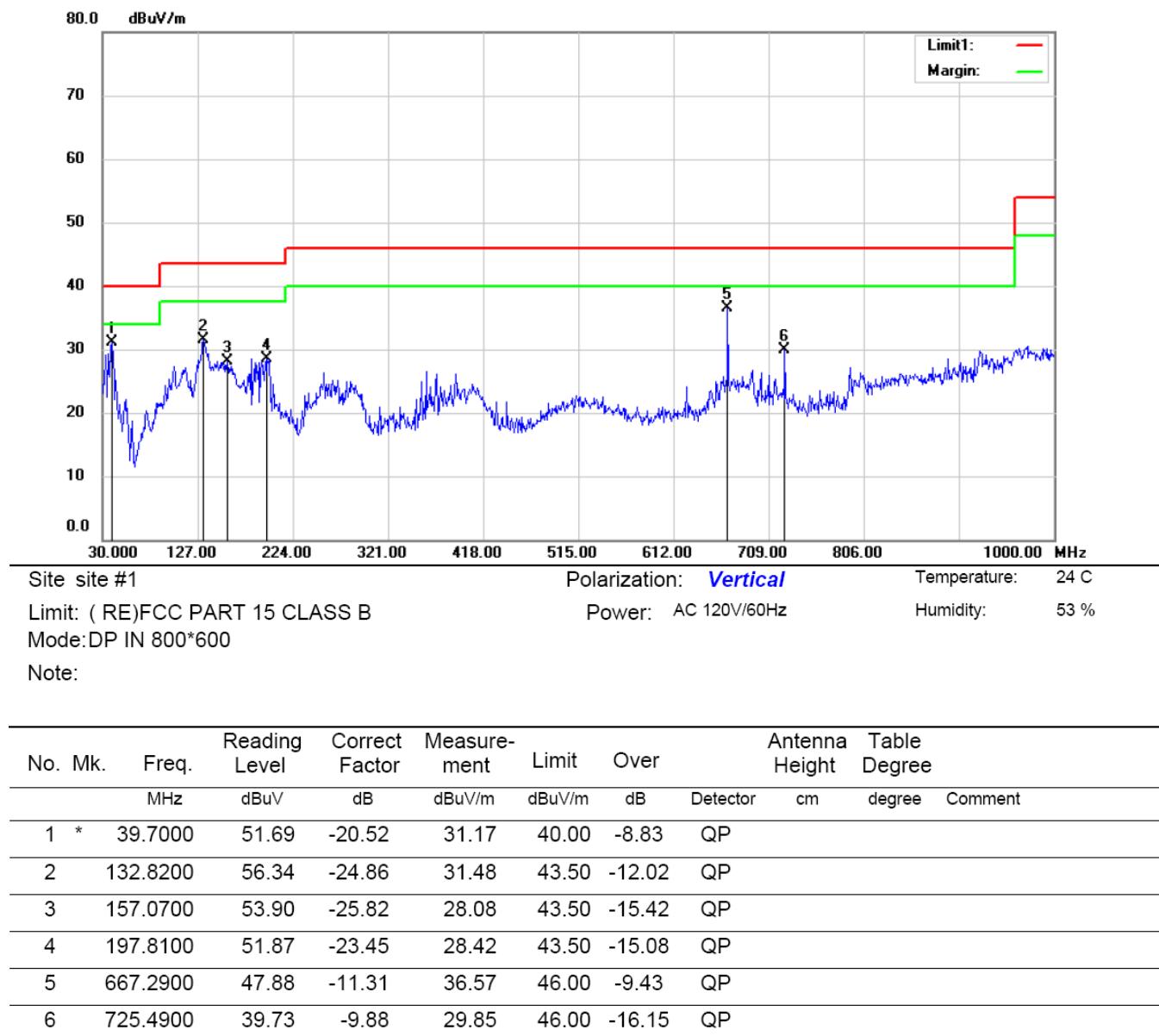
Mode:DP IN 800*600

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		101.7800	51.43	-21.69	29.74	43.50	-13.76	QP		
2		215.2700	52.46	-23.11	29.35	43.50	-14.15	QP		
3		273.4700	48.77	-19.03	29.74	46.00	-16.26	QP		
4		386.9600	41.51	-15.48	26.03	46.00	-19.97	QP		
5	*	667.2900	44.93	-11.31	33.62	46.00	-12.38	QP		
6		907.8500	35.89	-4.64	31.25	46.00	-14.75	QP		

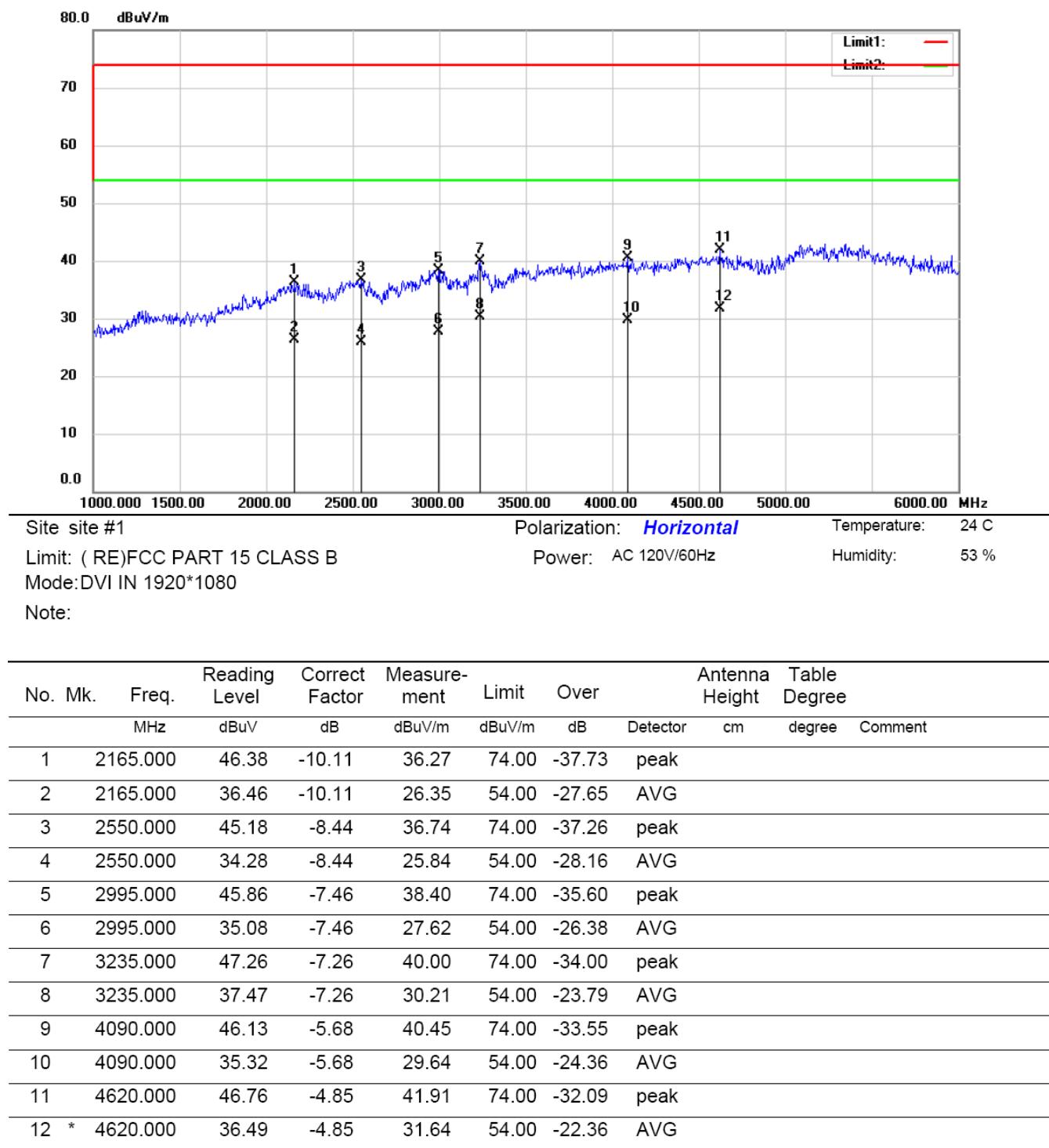
*:Maximum data x:Over limit !:over margin

Operator: Wang



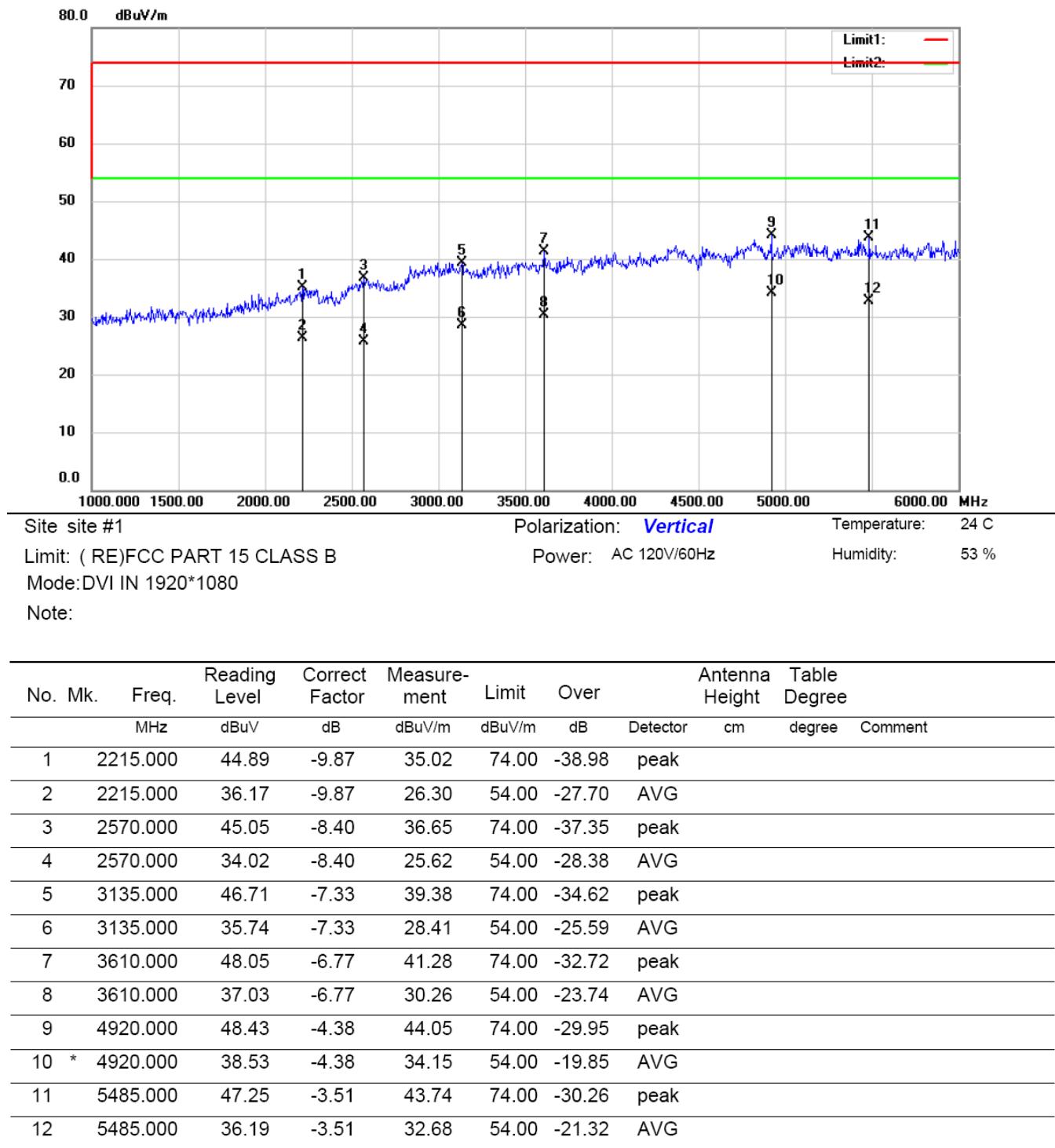
*:Maximum data x:Over limit !:over margin

Operator: Wang



*:Maximum data x:Over limit !:over margin

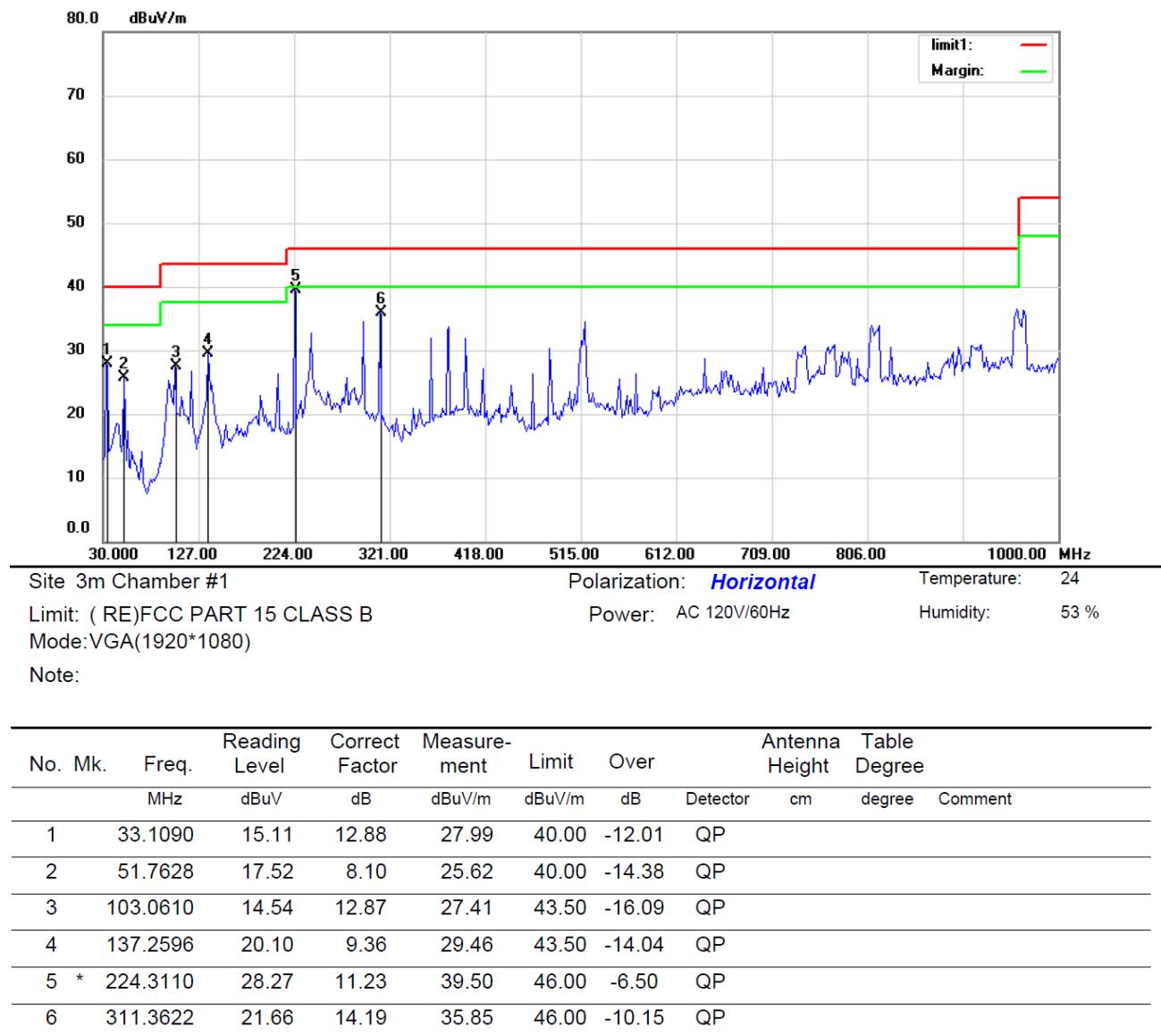
Operator: Wang



*:Maximum data x:Over limit !:over margin

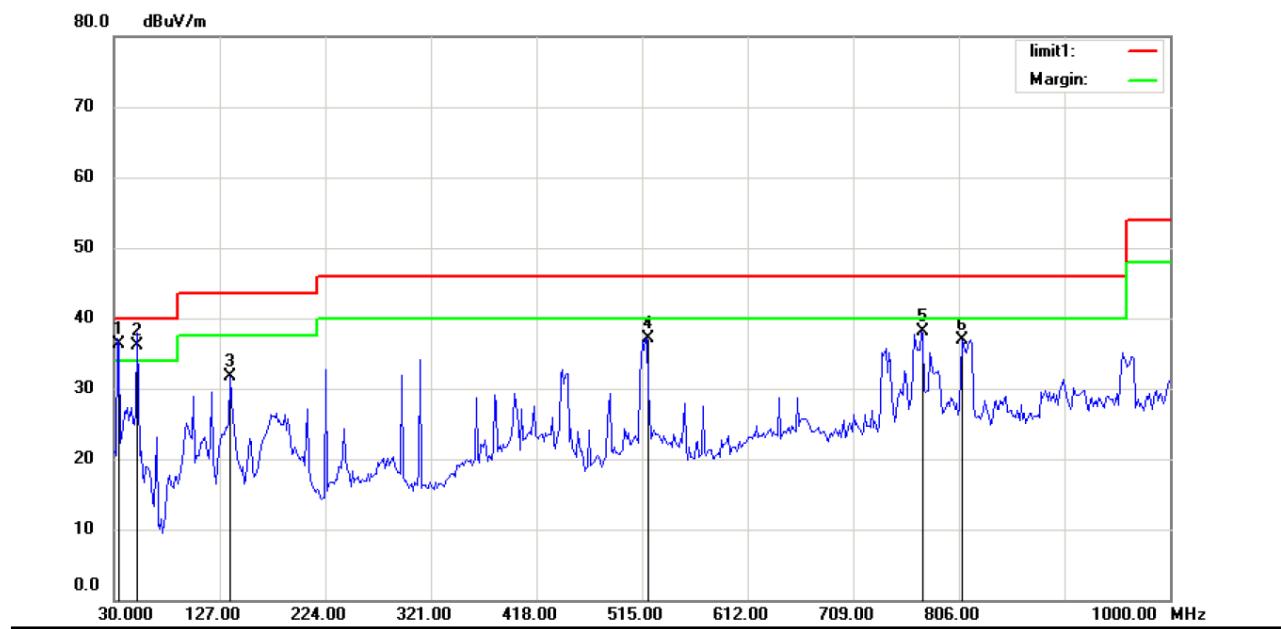
Operator: Wang

T215HVN01.0:



*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Vertical**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

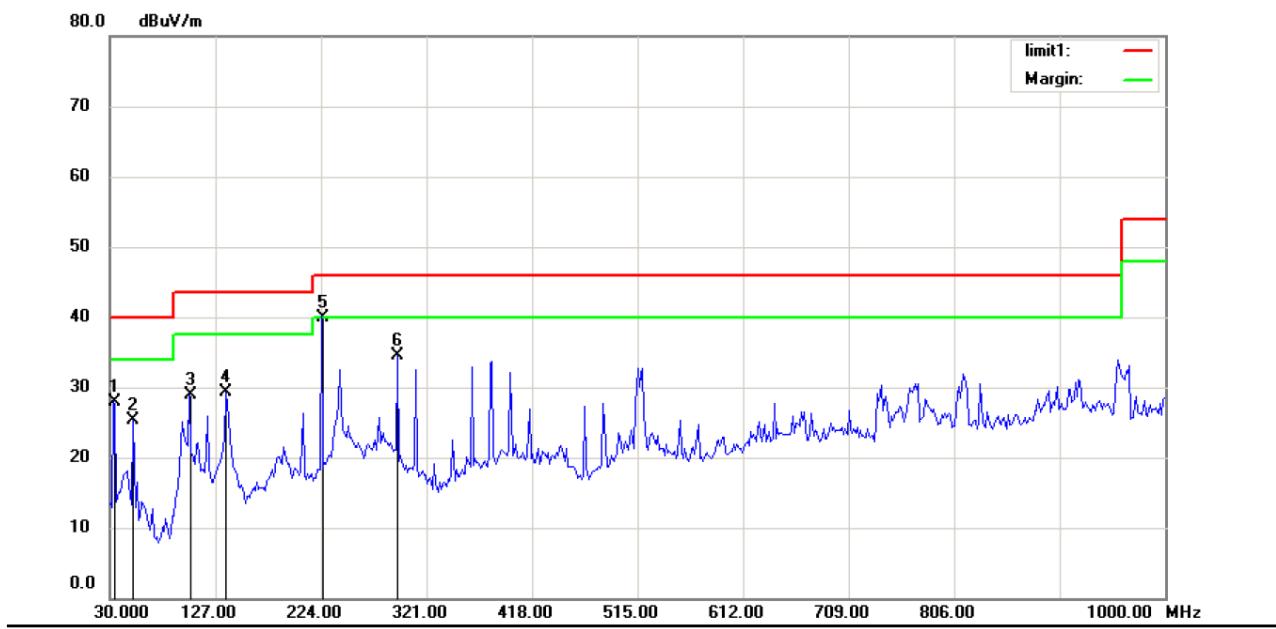
Mode: VGA(1920*1080)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm		Table Degree degree	Comment
								Detector			
1	*	33.1090	23.50	12.88	36.38	40.00	-3.62	QP			
2	!	51.7628	28.00	8.10	36.10	40.00	-3.90	QP			
3		137.2596	22.37	9.36	31.73	43.50	-11.77	QP			
4		519.6635	15.70	21.42	37.12	46.00	-8.88	QP			
5		771.4904	13.15	24.95	38.10	46.00	-7.90	QP			
6		808.7980	12.44	24.56	37.00	46.00	-9.00	QP			

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Horizontal**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

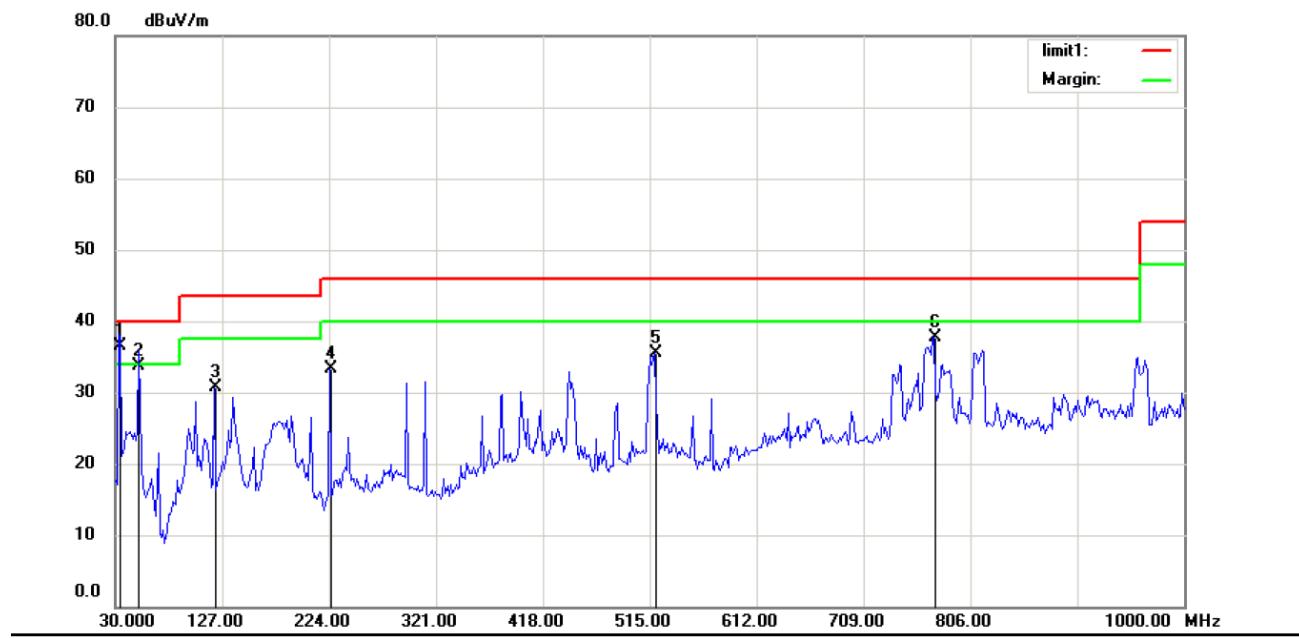
Mode: VGA(800*600)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment					Height	Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		33.1090	15.07	12.88	27.95	40.00	-12.05	QP			
2		51.7628	17.30	8.10	25.40	40.00	-14.60	QP			
3		103.0610	16.04	12.87	28.91	43.50	-14.59	QP			
4		137.2596	19.99	9.36	29.35	43.50	-14.15	QP			
5	*	224.3110	28.77	11.23	40.00	46.00	-6.00	QP			
6		294.2628	19.85	14.62	34.47	46.00	-11.53	QP			

*:Maximum data x:Over limit !:over margin

Operator: ZHL

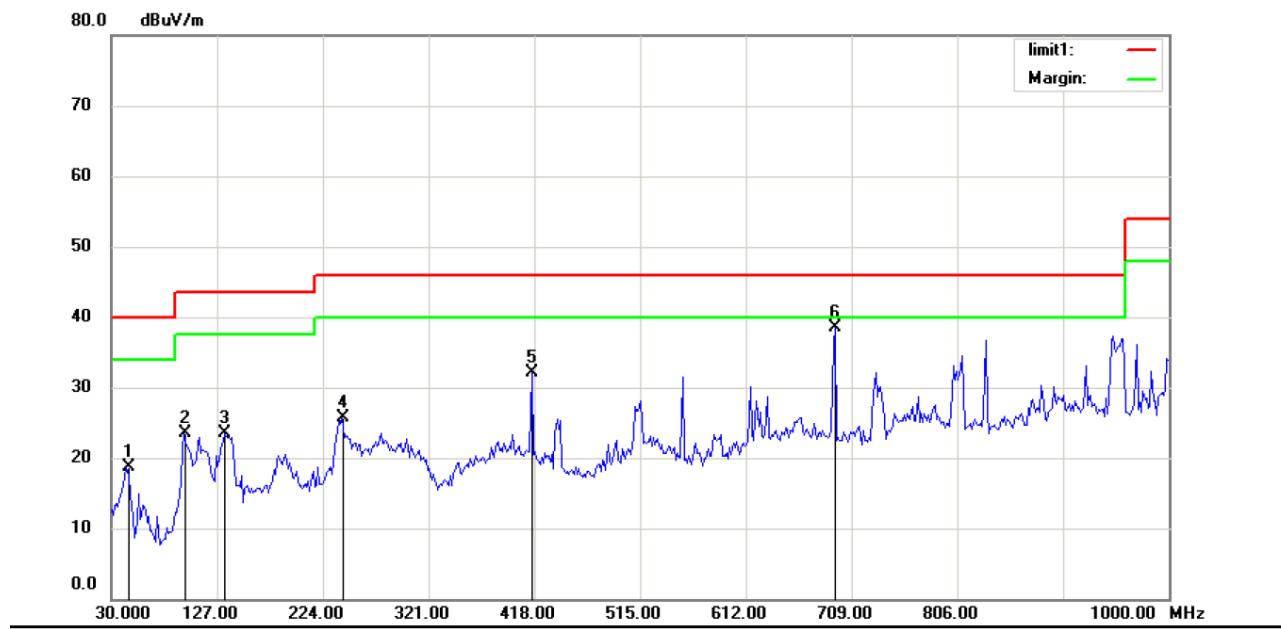


Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Over	Antenna	Table			
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	33.1090	23.60	12.88	36.48	40.00	-3.52	QP			
2		51.7628	25.70	8.10	33.80	40.00	-6.20	QP			
3		120.1603	20.43	10.28	30.71	43.50	-12.79	QP			
4		224.3110	22.17	11.23	33.40	46.00	-12.60	QP			
5		519.6635	14.14	21.42	35.56	46.00	-10.44	QP			
6		773.0450	12.67	25.01	37.68	46.00	-8.32	QP			

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Horizontal**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

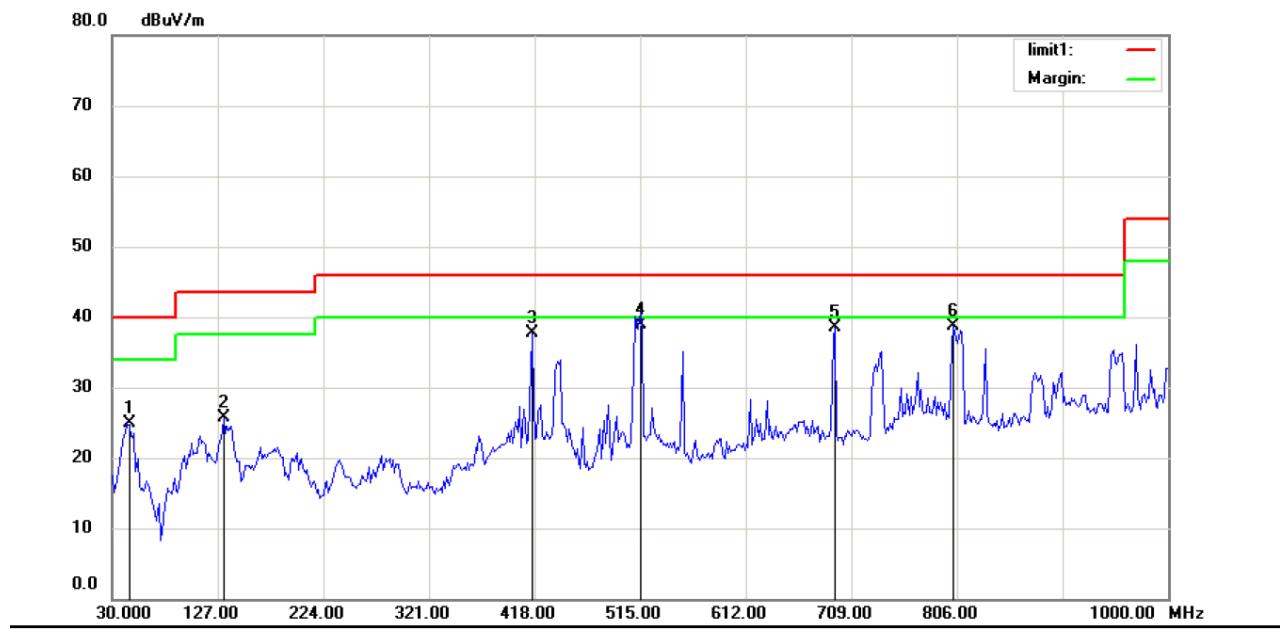
Mode:DVI(1920*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		43.9904	0.53	18.17	18.70	40.00	-21.30	QP		
2		96.8430	11.15	12.33	23.48	43.50	-20.02	QP		
3		134.1506	13.91	9.61	23.52	43.50	-19.98	QP		
4		241.4103	12.26	13.43	25.69	46.00	-20.31	QP		
5		415.5128	13.41	18.76	32.17	46.00	-13.83	QP		
6	*	693.7660	16.30	22.28	38.58	46.00	-7.42	QP		

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Vertical**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

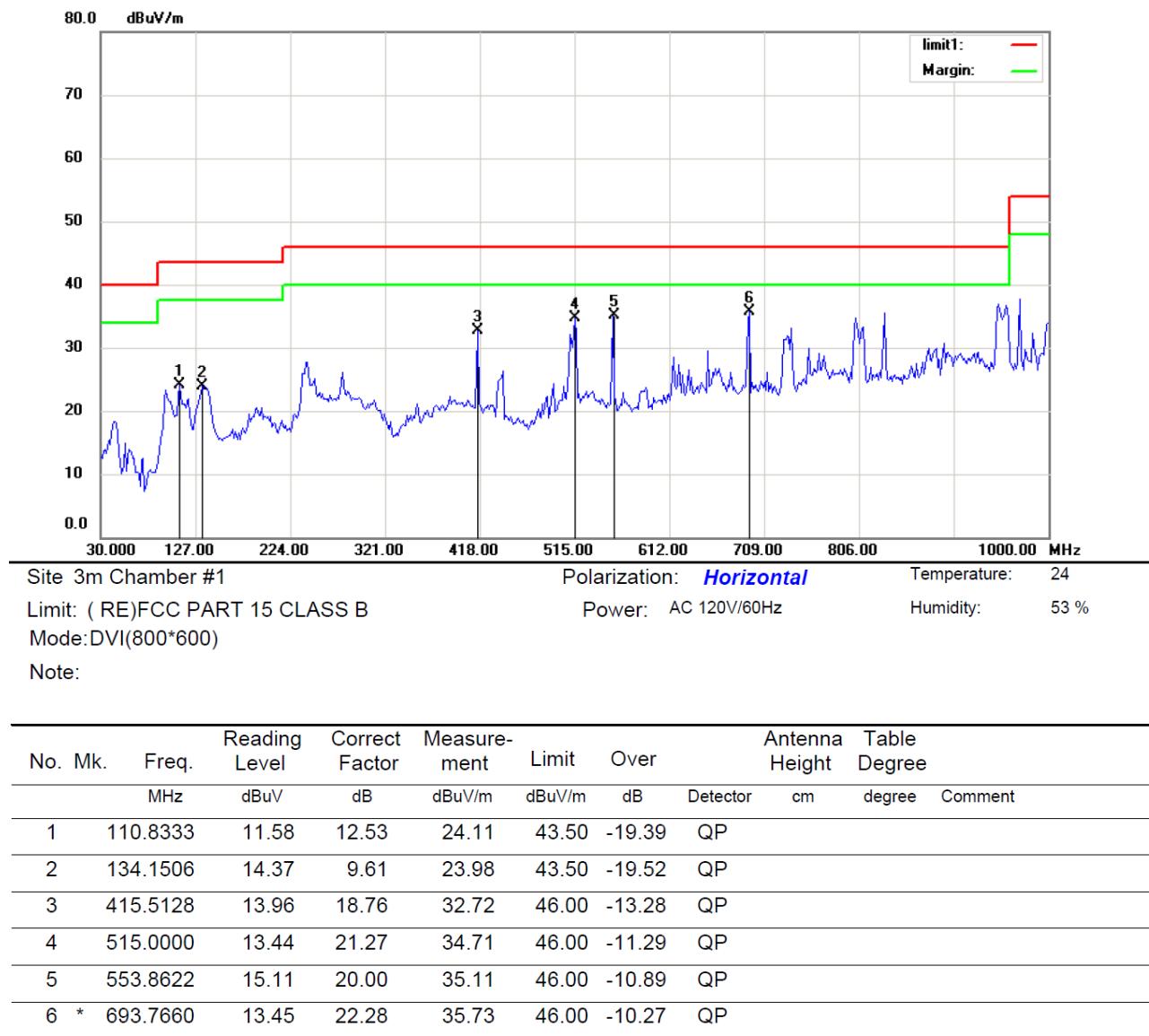
Mode:DVI(1920*1080)

Note:

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
			dBuV	dB	dBuV/m					
1		43.9904	6.76	18.17	24.93	40.00	-15.07	QP		
2		132.5961	16.10	9.67	25.77	43.50	-17.73	QP		
3		415.5128	18.92	18.76	37.68	46.00	-8.32	QP		
4	*	515.0000	17.60	21.27	38.87	46.00	-7.13	QP		
5		693.7660	16.23	22.28	38.51	46.00	-7.49	QP		
6		802.5801	14.26	24.49	38.75	46.00	-7.25	QP		

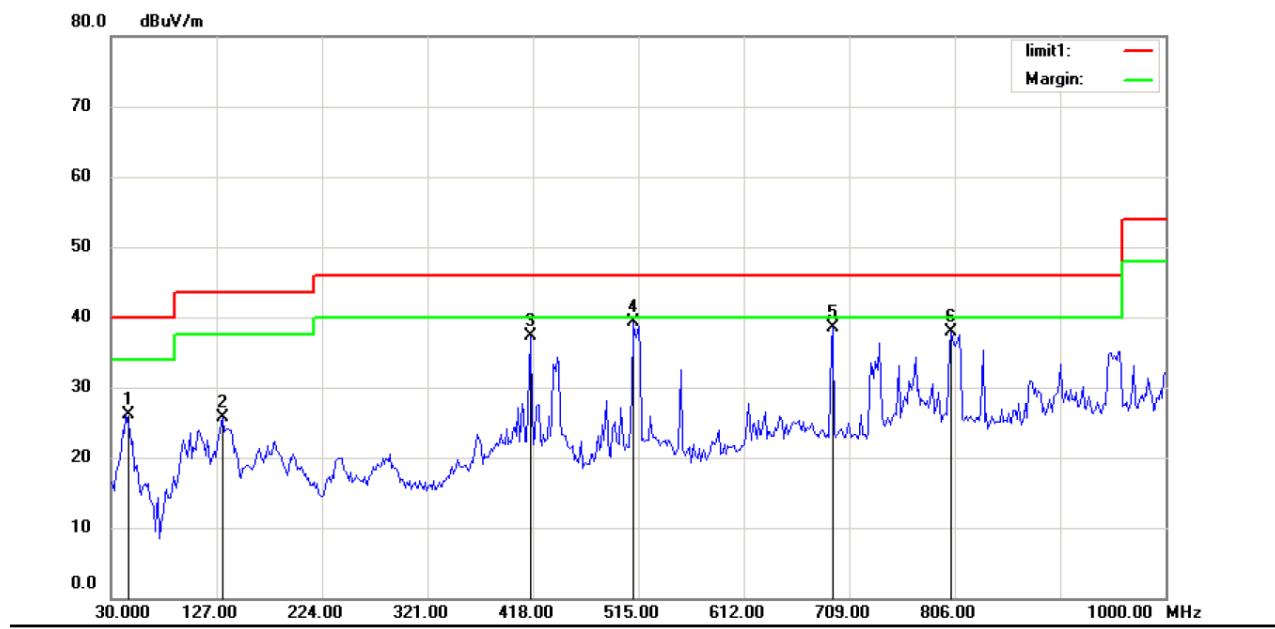
*:Maximum data x:Over limit !:over margin

Operator: ZHL



*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Vertical**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

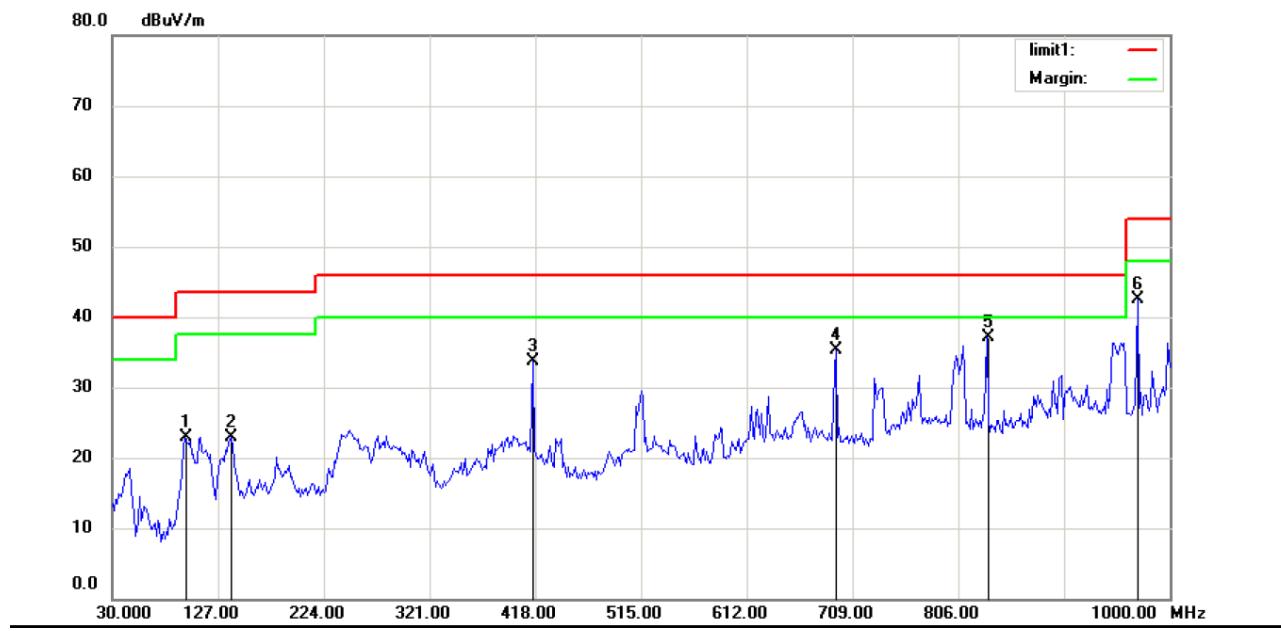
Mode:DVI(800*600)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		43.9904	7.99	18.17	26.16	40.00	-13.84	QP		
2		132.5961	15.96	9.67	25.63	43.50	-17.87	QP		
3		415.5128	18.54	18.76	37.30	46.00	-8.70	QP		
4	*	510.3365	18.17	21.12	39.29	46.00	-6.71	QP		
5		693.7660	16.14	22.28	38.42	46.00	-7.58	QP		
6		802.5801	13.33	24.49	37.82	46.00	-8.18	QP		

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Horizontal**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B
Mode:DP(1920*1080)

Power: AC 120V/60Hz

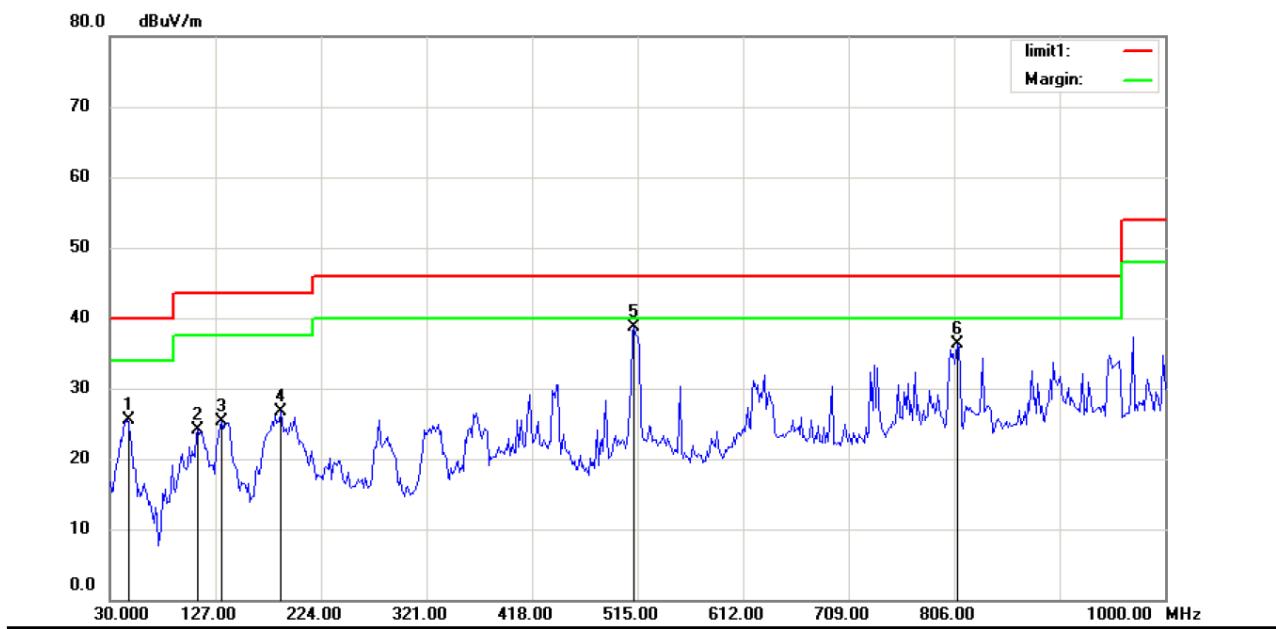
Humidity: 53 %

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm		Table Degree	
								Detector	Comment	degree	Comment
1		96.8430	10.63	12.33	22.96	43.50	-20.54	QP			
2		138.8141	13.60	9.22	22.82	43.50	-20.68	QP			
3		415.5128	14.90	18.76	33.66	46.00	-12.34	QP			
4		693.7660	13.07	22.28	35.35	46.00	-10.65	QP			
5	*	832.1154	12.42	24.61	37.03	46.00	-8.97	QP			
6		970.4647	16.53	25.94	42.47	54.00	-11.53	QP			

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Vertical**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

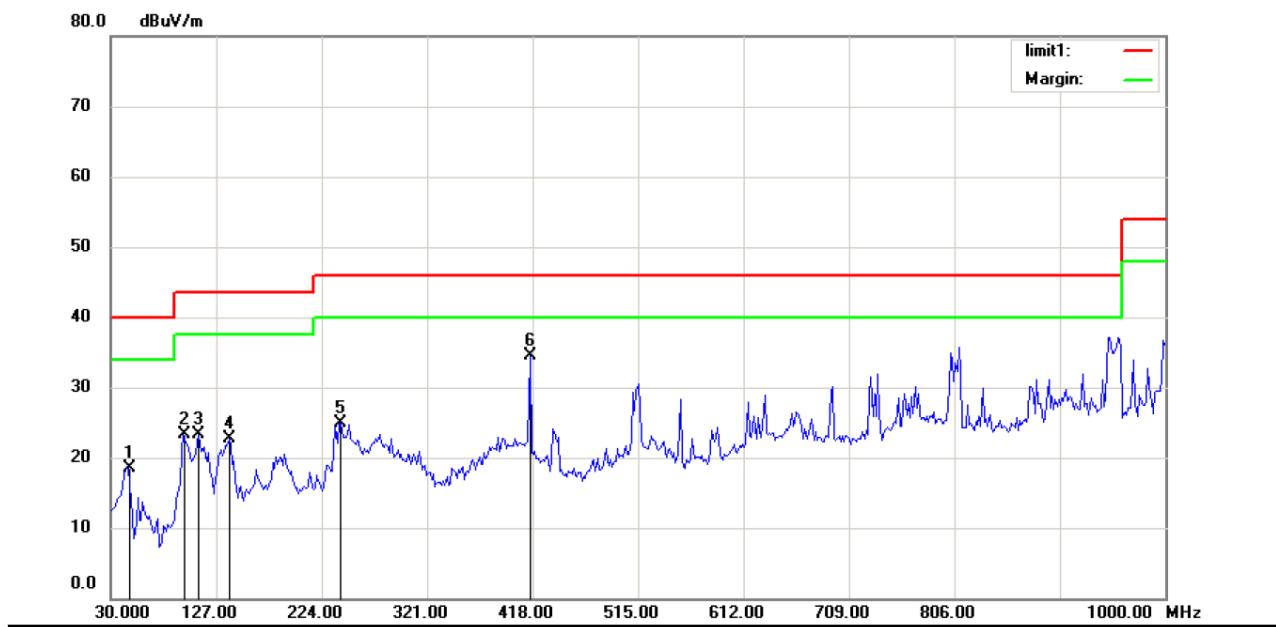
Mode: DP(1920*1080)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm		Table Degree degree	Comment
								Detector			
1		45.5450	8.35	17.11	25.46	40.00	-14.54	QP			
2		110.8333	11.50	12.53	24.03	43.50	-19.47	QP			
3		132.5961	15.55	9.67	25.22	43.50	-18.28	QP			
4		187.0032	17.05	9.65	26.70	43.50	-16.80	QP			
5 *		511.8910	17.48	21.18	38.66	46.00	-7.34	QP			
6		808.7980	11.76	24.56	36.32	46.00	-9.68	QP			

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Horizontal**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

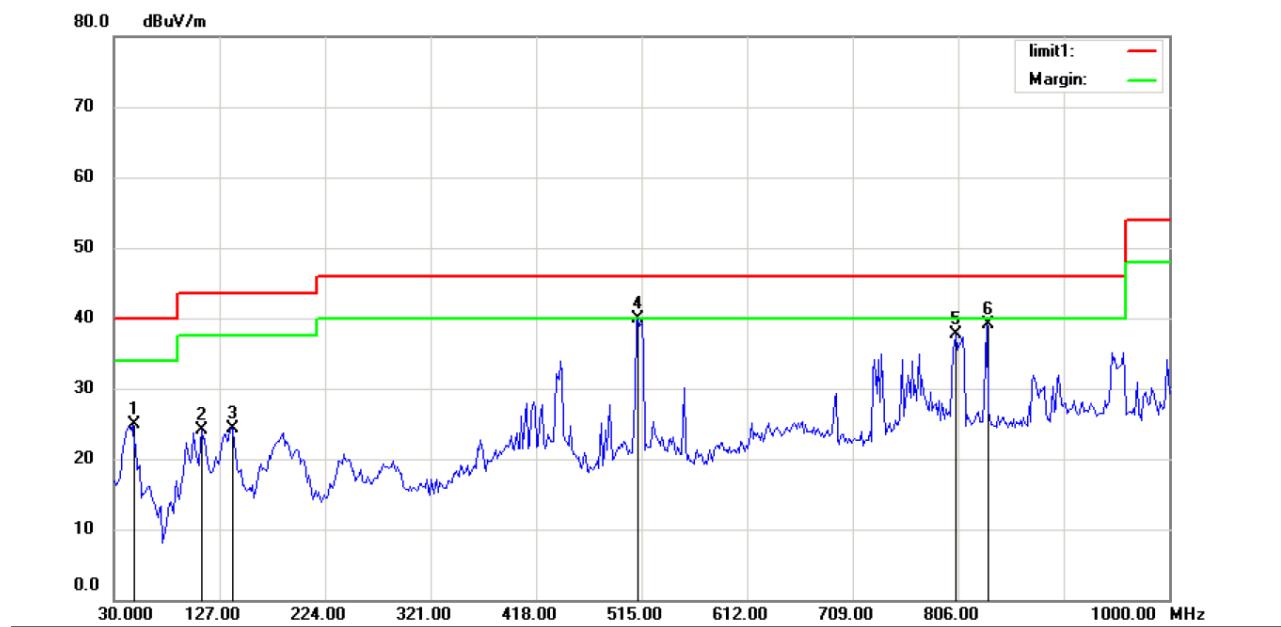
Mode:DP(800*600)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		45.5450	1.46	17.11	18.57	40.00	-21.43	QP			
2		96.8430	11.02	12.33	23.35	43.50	-20.15	QP			
3		110.8333	10.81	12.53	23.34	43.50	-20.16	QP			
4		138.8141	13.39	9.22	22.61	43.50	-20.89	QP			
5		239.8558	11.50	13.35	24.85	46.00	-21.15	QP			
6	*	415.5128	15.79	18.76	34.55	46.00	-11.45	QP			

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Vertical**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

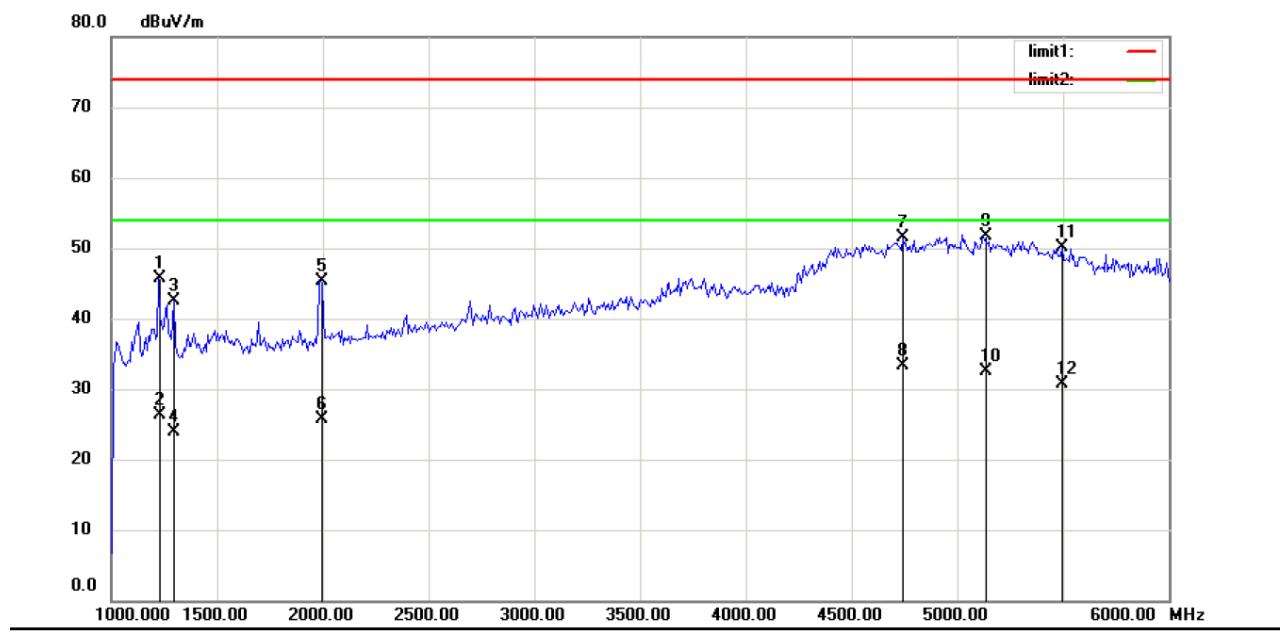
Mode: DP(800*600)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm		Table Degree degree	Comment
								Detector			
1		47.0994	9.76	15.15	24.91	40.00	-15.09	QP			
2		110.8333	11.48	12.53	24.01	43.50	-19.49	QP			
3		138.8141	15.10	9.22	24.32	43.50	-19.18	QP			
4	*	511.8910	18.80	21.18	39.98	46.00	-6.02	QP			
5		804.1346	13.11	24.50	37.61	46.00	-8.39	QP			
6		832.1154	14.55	24.61	39.16	46.00	-6.84	QP			

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Horizontal**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

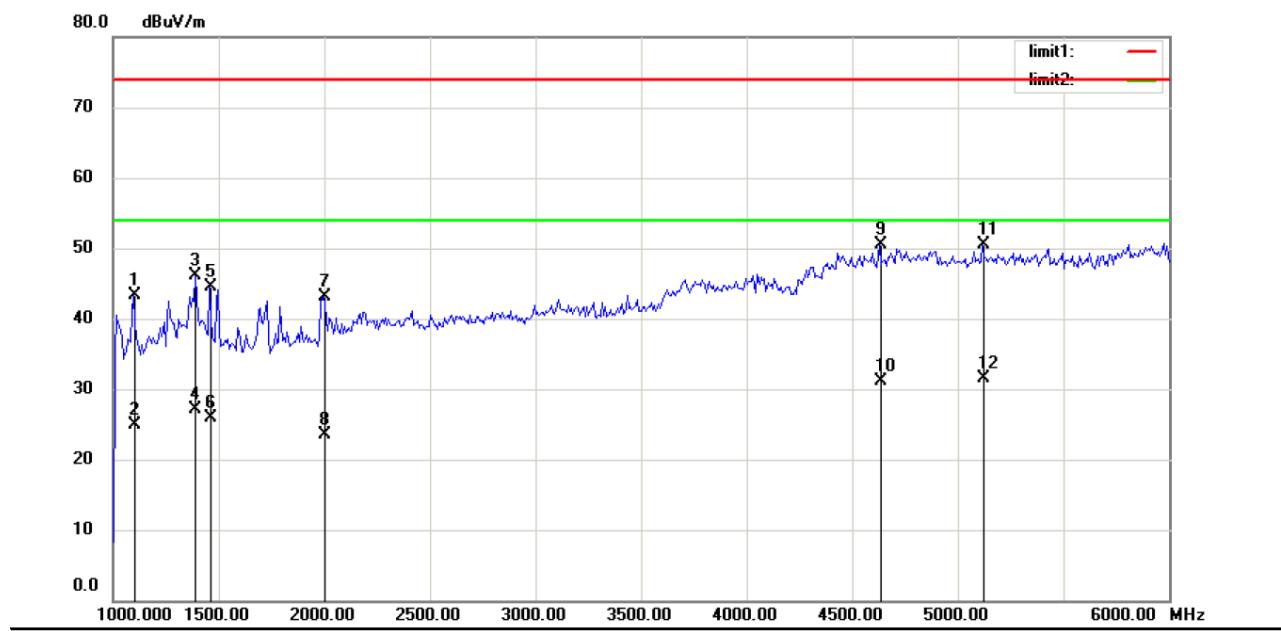
Mode:DVI(1920*1080)

Note:

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
			dBuV	dB	dBuV/m			Detector	degree	
1	1224.359	58.86	-13.14	45.72	74.00	74.00	-28.28	peak		
2	1224.359	39.50	-13.14	26.36	54.00	54.00	-27.64	AVG		
3	1296.474	55.47	-12.88	42.59	74.00	74.00	-31.41	peak		
4	1296.474	36.80	-12.88	23.92	54.00	54.00	-30.08	AVG		
5	1985.577	55.92	-10.70	45.22	74.00	74.00	-28.78	peak		
6	1985.577	36.40	-10.70	25.70	54.00	54.00	-28.30	AVG		
7	4741.987	53.00	-1.54	51.46	74.00	74.00	-22.54	peak		
8 *	4741.987	34.80	-1.54	33.26	54.00	54.00	-20.74	AVG		
9	5126.603	52.31	-0.54	51.77	74.00	74.00	-22.23	peak		
10	5126.603	33.10	-0.54	32.56	54.00	54.00	-21.44	AVG		
11	5495.192	50.95	-0.85	50.10	74.00	74.00	-23.90	peak		
12	5495.192	31.50	-0.85	30.65	54.00	54.00	-23.35	AVG		

*:Maximum data x:Over limit !:over margin

Operator: ZHL



Site 3m Chamber #1

Polarization: **Vertical**

Temperature: 24

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

Mode:DVI(1920*1080)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1096.154	56.13	-12.75	43.38	74.00	-30.62	peak		
2		1096.154	37.60	-12.75	24.85	54.00	-29.15	AVG		
3		1392.628	57.73	-11.58	46.15	74.00	-27.85	peak		
4		1392.628	38.60	-11.58	27.02	54.00	-26.98	AVG		
5		1456.731	56.23	-11.67	44.56	74.00	-29.44	peak		
6		1456.731	37.50	-11.67	25.83	54.00	-28.17	AVG		
7		1993.590	53.70	-10.67	43.03	74.00	-30.97	peak		
8		1993.590	34.10	-10.67	23.43	54.00	-30.57	AVG		
9		4629.808	53.99	-3.49	50.50	74.00	-23.50	peak		
10		4629.808	34.60	-3.49	31.11	54.00	-22.89	AVG		
11		5118.590	52.94	-2.39	50.55	74.00	-23.45	peak		
12	*	5118.590	33.80	-2.39	31.41	54.00	-22.59	AVG		

*:Maximum data x:Over limit !:over margin

Operator: ZHL

6. PHOTOGRAPHS

6.1.Photo of Power line Conducted Emission Measurement



6.2.Photo of Radiation Emission Measurement

