

# Test Report For

# SHENZHEN BEACON DISPLAY TECHNOLOGY CO., LTD.

# **LCD Monitor**

Model No.: S242P, E240, S241P, S24\*\*, S24\*\*P, C23WP, C23WT, C23W

FCC ID: Z5QLCDS242P

Prepared for : SHENZHEN BEACON DISPLAY TECHNOLOGY CO.,

LTD.

Address : Room 201, Incubator Building, CASTD, High-tech South

Street NO.1, Nanshan District, Shenzhen 518057, China

Prepared by : SHENZHEN EMTEK CO., LTD. Address : Bldg 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China

Tel: (0755) 26954280 Fax: (0755) 26954282

Report Number : ES140529286E

Date of Test : June 3, 2014 to June 17, 2014

Date of Report : June 17, 2014



# **TABLE OF CONTENT**

Test Report Description	Page
1.SUMMARY OF TEST RESULT	5
2.GENERAL INFORMATION	6
2.1. Description of Device (EUT)  2.2. Description of Test Facility  2.3. Description of Support Device  2.4. Measurement Uncertainty	6 7
3.MEASURING DEVICE AND TEST EQUIPMENT	8
3.1. For Power Line Conducted Emission Measurement      3.2. For Radiated Emission Measurement	
4.POWER LINE CONDUCTED EMISSION MEASUREMENT	9
4.1. Block Diagram of Test Setup  4.2. Measuring Standard  4.3. Power Line Conducted Emission Limits (Class B)  4.4. EUT Configuration on Measurement  4.5. Operating Condition of EUT  4.6. Test Procedure  4.7. Measuring Results	9 9 9 9
5.RADIATED EMISSION MEASUREMENT	21
5.1. Block Diagram of Test Setup 5.2. Measuring Standard 5.3. Radiated Emission Limits (Class B) 5.4. EUT Configuration on Measurement 5.5. Operating Condition of EUT 5.6. Test Procedure 5.7. Measuring Results	
6.PHOTOGRAPHS	39
6.1. Photos of Conducted Emission Measurement	

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## TEST REPORT DESCRIPTION

Applicant : SHENZHEN BEACON DISPLAY TECHNOLOGY CO., LTD.

Manufacturer : SHENZHEN BEACON DISPLAY TECHNOLOGY CO., LTD.

Trade Mark : N/A

EUT : LCD Monitor

Model No. : S242P, E240, S241P, S24\*\*, S24\*\*P, C23WP, C23WT, C23W

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 3, 2014 to June 17, 2014
Prepared by	:	Jack. Li
		Jack Li/Editor
Reviewer	:	Ture XIE
		June Xie/Supervisor
Approved & Authorized Signe	r:	
77		Lisa Wang/Manager

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# **Modified Information**

Version	Report No.	Revision Date	Summary
V1.0	ES140529286E	1	Original Version

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# 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					
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 : S242P, E240, S241P, S24\*\*, S24\*\*P, C23WP, C23WT, C23W

All models are almost the same, P means with front protection glass with brightness sensor, \* stands for 0-9 for different client. We take S242P to

test.

Adapter: Model: MENB1100A2448F02

Input: AC 100-240V,50-60Hz, 2.0A

Output: DC 24V, 4.2A

Test Voltage : AC 120V/60Hz

Applicant : SHENZHEN BEACON DISPLAY TECHNOLOGY CO., LTD.

Address : Room 201, Incubator Building, CASTD, High-tech South Street NO.1,

Nanshan District, Shenzhen 518057, China

Manufacturer : SHENZHEN BEACON DISPLAY TECHNOLOGY CO., LTD.

Address : Room 201, Incubator Building, CASTD, High-tech South Street NO.1,

Nanshan District, Shenzhen 518057, China

Date of Received : June 3, 2014

Date of Test : June 3, 2014 to June 17, 2014

## 2.2. 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

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# 2.3. Description of Support Device

PC : Manufacturer: LENOVO

M/N: 9702 S/N: L3C4410 CE, FCC: DOC

Keyboard : Manufacturer: LENOVO

M/N: KU-0225 S/N:0585494 CE, FCC: DOC

Mouse : Manufacturer: LENOVO

M/N: MO28UOL S/N:44G7862 068 CE, FCC: DOC Manufacturer: HP

Printer : Manufacturer: HP

M/N: C89520 S/N: CN25S182N6 CE, FCC: DOC

# 2.4. Measurement Uncertainty

Test Item Uncertainty

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

2.74dB(150k-30MHzConduction 1#)

Radiated Emission Uncertainty

(3m Chamber)

: 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
V	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 17, 2014	1 Year
V	L.I.S.N.	Schwarzbeck	NNLK8129	8129-203	May 17, 2014	1 Year
	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z6	100011	May 17, 2014	1 Year
	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z6	100253	May 17, 2014	1 Year
V	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z5	100191	May 17, 2014	1 Year
<b>V</b>	50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 17, 2014	1 Year
	Current probe	Rohde & Schwarz	EZ-17	0816.2063.02	May 17, 2014	1 Year

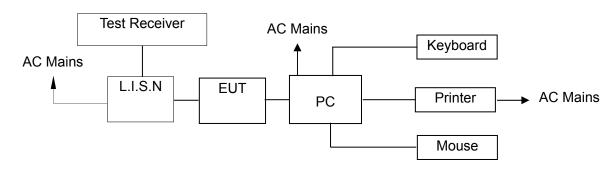
# 3.2. For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
$\checkmark$	EMI Test	Rohde & Schwarz	ESU	1302.6005.26	May 17, 2014	1 Year
	Receiver	Runde & Schwarz				
$\checkmark$	Pre-Amplifier	HP	8447D	2944A07999	May 17, 2014	1 Year
$\checkmark$	Bilog Antenna	Schwarzbeck	VULB9163	142	May 17, 2014	1 Year
	Loop Antenna	Schwarzbeck	FMZB 1519	012	May 17, 2014	1 Year
	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	May 17, 2014	1 Year
$\checkmark$	Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 17, 2014	1 Year
$\overline{V}$	Cable	Schwarzbeck	AK9513	ACRX1	May 17, 2014	1 Year
$\checkmark$	Cable	Rosenberger	N/A	FP2RX2	May 17, 2014	1 Year
$\checkmark$	Cable	Schwarzbeck	AK9513	CRPX1	May 17, 2014	1 Year
$\checkmark$	Cable	Schwarzbeck	AK9513	CRRX2	May 17, 2014	1 Year
$\checkmark$	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



(EUT: LCD Monitor)

# 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	Limit (	Limit (dBμV)				
(MHz)	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. EUT Configuration 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 : S242P

### 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 (VGA mode 1920\*1080, DVI mode 1920\*1080, CVBS in, Y+Pb+Pr, S-Video) and measure it.

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## 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 500hm 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.

All the modes were tested and the data are attached the following pages.

# 4.7. Measuring Results

PASS.

Please refer to following pages.

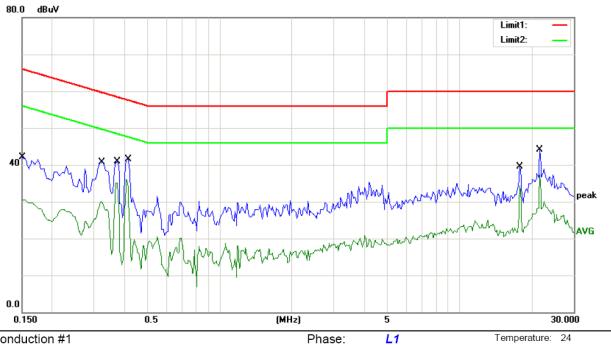
Power: AC 120V/60Hz

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Humidity:

53 %



Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: VGA IN

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	42.01	0.00	42.01	66.00	-23.99	QP	
2		0.1500	30.41	0.00	30.41	56.00	-25.59	AVG	
3		0.3250	40.78	0.00	40.78	59.58	-18.80	QP	
4		0.3250	30.11	0.00	30.11	49.58	-19.47	AVG	
5		0.3750	40.90	0.00	40.90	58.39	-17.49	QP	
6		0.3750	35.15	0.00	35.15	48.39	-13.24	AVG	
7		0.4150	41.52	0.00	41.52	57.55	-16.03	QP	
8	*	0.4150	36.13	0.00	36.13	47.55	-11.42	AVG	
9		17.9000	39.55	0.00	39.55	60.00	-20.45	QP	
10		17.9000	34.32	0.00	34.32	50.00	-15.68	AVG	
11		21.6250	44.02	0.00	44.02	60.00	-15.98	QP	
12		21.6250	37.36	0.00	37.36	50.00	-12.64	AVG	

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

Page 11 of 40 TRF NO.: FCC15/A Report No.: ES140529286E Ver.1.0

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30.000

24

Temperature:

Humidity:

40 dBwV

Limit2: \_\_\_\_\_

peak

(MHz)

Phase:

N

Power: AC 120V/60Hz

Site Conduction #1

0.0

Limit: (CE)FCC PART 15 class B\_QP

Mode: VGA IN

Note:

No. N	/lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.1550	45.64	0.00	45.64	65.73	-20.09	QP	
2	0.1550	31.23	0.00	31.23	55.73	-24.50	AVG	
3	0.1750	43.93	0.00	43.93	64.72	-20.79	QP	
4	0.1750	30.82	0.00	30.82	54.72	-23.90	AVG	
5	0.3200	40.51	0.00	40.51	59.71	-19.20	QP	
6	0.3200	31.54	0.00	31.54	49.71	-18.17	AVG	
7	0.3750	40.57	0.00	40.57	58.39	-17.82	QP	
8	0.3750	35.94	0.00	35.94	48.39	-12.45	AVG	
9	0.4050	40.71	0.00	40.71	57.75	-17.04	QP	
10	0.4050	37.18	0.00	37.18	47.75	-10.57	AVG	
11	21.6250	45.50	0.00	45.50	60.00	-14.50	QP	
12 *	21.6250	39.70	0.00	39.70	50.00	-10.30	AVG	

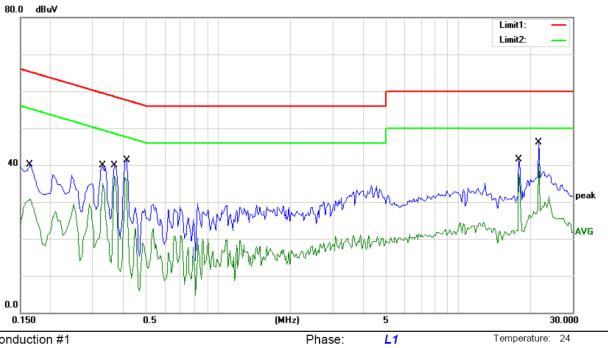
Power: AC 120V/60Hz

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Humidity:

53 %



Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: DVI IN

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1650	40.10	0.00	40.10	65.21	-25.11	QP	
2		0.1650	30.70	0.00	30.70	55.21	-24.51	AVG	
3		0.3300	39.80	0.00	39.80	59.45	-19.65	QP	
4		0.3300	35.04	0.00	35.04	49.45	-14.41	AVG	
5		0.3700	39.89	0.00	39.89	58.50	-18.61	QP	
6		0.3700	36.96	0.00	36.96	48.50	-11.54	AVG	
7		0.4150	41.30	0.00	41.30	57.55	-16.25	QP	
8		0.4150	36.49	0.00	36.49	47.55	-11.06	AVG	
9		17.9000	41.54	0.00	41.54	60.00	-18.46	QP	
10		17.9000	37.51	0.00	37.51	50.00	-12.49	AVG	
11		21.6250	46.04	0.00	46.04	60.00	-13.96	QP	
12	*	21.6250	40.32	0.00	40.32	50.00	-9.68	AVG	

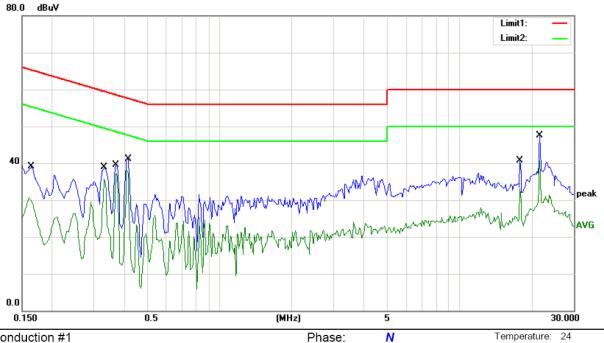
Power: AC 120V/60Hz

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Humidity:

53 %



Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: DVI IN

Note:

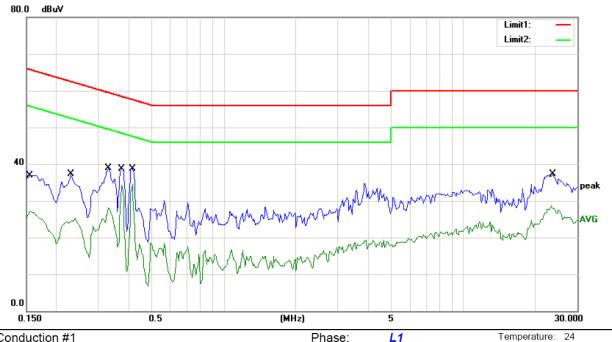
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1650	39.13	0.00	39.13	65.21	-26.08	QP	
2		0.1650	30.70	0.00	30.70	55.21	-24.51	AVG	
3		0.3300	38.82	0.00	38.82	59.45	-20.63	QP	
4		0.3300	35.77	0.00	35.77	49.45	-13.68	AVG	
5		0.3700	39.59	0.00	39.59	58.50	-18.91	QP	
6		0.3700	37.30	0.00	37.30	48.50	-11.20	AVG	
7		0.4150	41.16	0.00	41.16	57.55	-16.39	QP	
8	*	0.4150	38.23	0.00	38.23	47.55	-9.32	AVG	
9		17.9000	40.74	0.00	40.74	60.00	-19.26	QP	
10		17.9000	33.16	0.00	33.16	50.00	-16.84	AVG	
11		21.6250	47.57	0.00	47.57	60.00	-12.43	QP	
12		21.6250	40.67	0.00	40.67	50.00	-9.33	AVG	

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Humidity:

53 %



Phase:

L1

Power: AC 120V/60Hz

Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: CVBS IN

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1550	36.94	0.00	36.94	65.73	-28.79	QP	
2		0.1550	27.18	0.00	27.18	55.73	-28.55	AVG	
3		0.2300	37.21	0.00	37.21	62.45	-25.24	QP	
4		0.2300	25.22	0.00	25.22	52.45	-27.23	AVG	
5		0.3300	38.95	0.00	38.95	59.45	-20.50	QP	
6		0.3300	28.16	0.00	28.16	49.45	-21.29	AVG	
7		0.3750	38.72	0.00	38.72	58.39	-19.67	QP	
8		0.3750	34.40	0.00	34.40	48.39	-13.99	AVG	
9		0.4150	38.77	0.00	38.77	57.55	-18.78	QP	
10	*	0.4150	34.54	0.00	34.54	47.55	-13.01	AVG	
11		23.7000	37.25	0.00	37.25	60.00	-22.75	QP	
12		23.7000	28.64	0.00	28.64	50.00	-21.36	AVG	

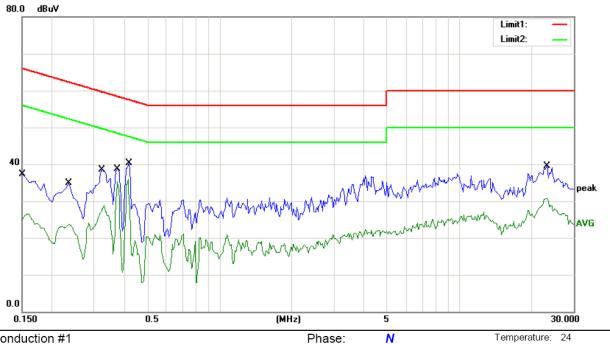
Power: AC 120V/60Hz

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Humidity:

53 %



Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: CVBS IN

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBu∨	dBu∀	dB	Detector	Comment
1	0.1500	37.39	0.00	37.39	66.00	-28.61	QP	
2	0.1500	26.43	0.00	26.43	56.00	-29.57	AVG	
3	0.2350	34.93	0.00	34.93	62.27	-27.34	QP	
4	0.2350	23.66	0.00	23.66	52.27	-28.61	AVG	
5	0.3250	38.60	0.00	38.60	59.58	-20.98	QP	
6	0.3250	28.91	0.00	28.91	49.58	-20.67	AVG	
7	0.3750	38.70	0.00	38.70	58.39	-19.69	QP	
8	0.3750	35.23	0.00	35.23	48.39	-13.16	AVG	
9	0.4200	40.39	0.00	40.39	57.45	-17.06	QP	
10 *	0.4200	35.83	0.00	35.83	47.45	-11.62	AVG	
11	23.2250	39.52	0.00	39.52	60.00	-20.48	QP	
12	23.2250	30.66	0.00	30.66	50.00	-19.34	AVG	

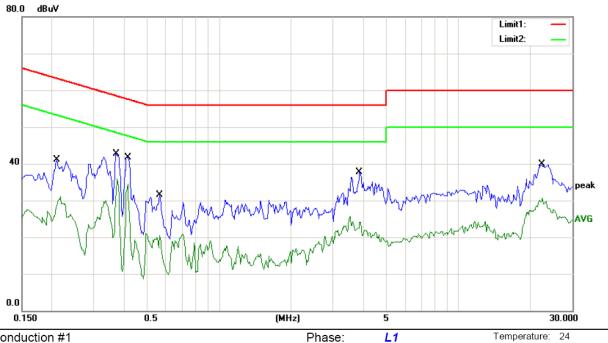
Power: AC 120V/60Hz

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Humidity:

53 %



Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: Y+Pb+Pr

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.2100	41.16	0.00	41.16	63.21	-22.05	QP	
2		0.2100	31.05	0.00	31.05	53.21	-22.16	AVG	
3		0.3711	42.80	0.00	42.80	58.48	-15.68	QP	
4	*	0.3711	35.90	0.00	35.90	48.48	-12.58	AVG	
5		0.4150	41.77	0.00	41.77	57.55	-15.78	QP	
6		0.4150	34.54	0.00	34.54	47.55	-13.01	AVG	
7		0.5650	31.53	0.00	31.53	56.00	-24.47	QP	
8		0.5650	20.52	0.00	20.52	46.00	-25.48	AVG	
9		3.8800	37.78	0.00	37.78	56.00	-18.22	QP	
10		3.8800	25.69	0.00	25.69	46.00	-20.31	AVG	
11	2	2.5000	39.91	0.00	39.91	60.00	-20.09	QP	
12	2	2.5000	30.65	0.00	30.65	50.00	-19.35	AVG	

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

TRF NO.: FCC15/A Page 17 of 40 Report No.: ES140529286E Ver.1.0

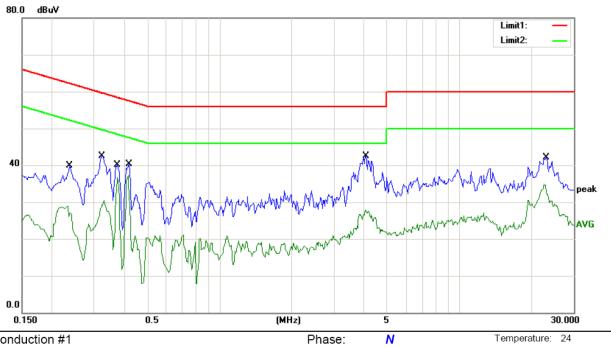
Power: AC 120V/60Hz

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Humidity:

53 %



Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: Y+Pb+Pr

Note:

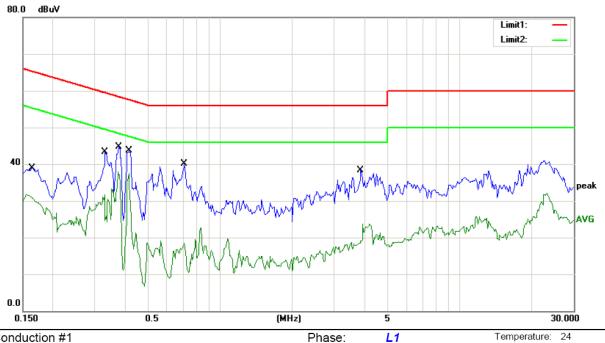
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.2365	39.86	0.00	39.86	62.22	-22.36	QP	
2		0.2365	28.94	0.00	28.94	52.22	-23.28	AVG	
3		0.3250	42.60	0.00	42.60	59.58	-16.98	QP	
4		0.3250	30.41	0.00	30.41	49.58	-19.17	AVG	
5		0.3750	40.20	0.00	40.20	58.39	-18.19	QP	
6		0.3750	36.73	0.00	36.73	48.39	-11.66	AVG	
7		0.4200	40.39	0.00	40.39	57.45	-17.06	QP	
8	*	0.4200	37.33	0.00	37.33	47.45	-10.12	AVG	
9		4.0703	42.48	0.00	42.48	56.00	-13.52	QP	
10		4.0703	27.82	0.00	27.82	46.00	-18.18	AVG	
11		23.0181	42.08	0.00	42.08	60.00	-17.92	QP	
12		23.0181	34.95	0.00	34.95	50.00	-15.05	AVG	

Power: AC 120V/60Hz

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Humidity:



Site Conduction #1

Limit: (CE)FCC PART 15 class B\_QP

Mode: S-Video

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1650	38.93	0.00	38.93	65.21	-26.28	QP	
2		0.1650	31.68	0.00	31.68	55.21	-23.53	AVG	
3		0.3303	43.39	0.00	43.39	59.44	-16.05	QP	
4		0.3303	31.66	0.00	31.66	49.44	-17.78	AVG	
5		0.3771	44.68	0.00	44.68	58.34	-13.66	QP	
6		0.3771	37.90	0.00	37.90	48.34	-10.44	AVG	
7		0.4170	43.62	0.00	43.62	57.51	-13.89	QP	
8	*	0.4170	37.54	0.00	37.54	47.51	-9.97	AVG	
9		0.7100	40.03	0.00	40.03	56.00	-15.97	QP	
10		0.7100	22.63	0.00	22.63	46.00	-23.37	AVG	
11		3.8800	38.28	0.00	38.28	56.00	-17.72	QP	
12		3.8800	23.75	0.00	23.75	46.00	-22.25	AVG	

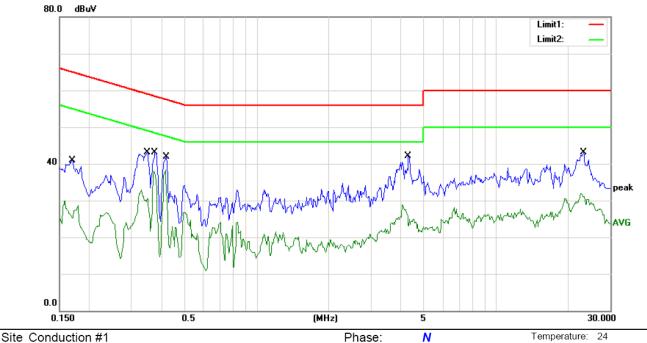
Power: AC 120V/60Hz

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Humidity:

53 %



Limit: (CE)FCC PART 15 class B\_QP

Mode: S-Video

Note:

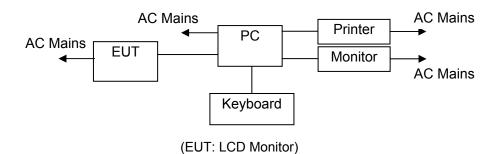
Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dΒ dBuV dBuV dB Detector Comment 1 0.1700 40.83 0.00 40.83 64.96 -24.13 QΡ 2 0.1700 29.91 0.00 29.91 54.96 -25.05 **AVG** 3 0.3500 43.15 0.00 43.15 58.96 -15.81 QΡ 0.3500 32.91 0.00 32.91 48.96 -16.05 AVG 4 5 0.3751 43.19 0.00 43.19 58.39 -15.20 QΡ 0.3751 38.17 6 0.00 38.17 48.39 -10.22 **AVG** QΡ 7 0.4200 41.89 0.00 57.45 -15.56 41.89 8 0.4200 38.33 38.33 47.45 -9.12 AVG 0.00 9 4.3000 42.10 0.00 42.10 56.00 -13.90 QΡ 4.3000 28.82 0.00 46.00 -17.18 AVG 10 28.82 QΡ 23.2250 43.02 0.00 43.02 60.00 -16.98 11 12 23.2250 32.00 0.00 32.00 50.00 -18.00 AVG



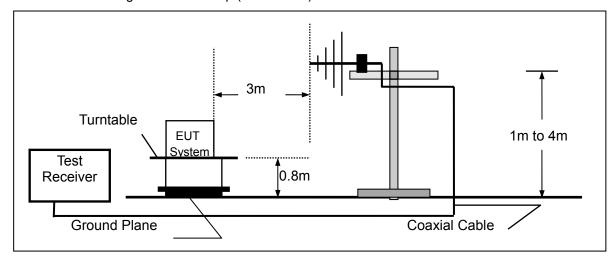
# 5. RADIATED EMISSION MEASUREMENT

# 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)



(EUT: LCD Monitor)

# 5.2. Measuring Standard

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

# 5.3. Radiated Emission Limits (Class B)

F	reque	ency	Distance	Field Strei	ngths Limit
	MH:	Z	Meters	μV/m	dB(μV)/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	Distance	Field Strengths Limit						
(GHz)	(Meters)	Average (dBμV/m)	Peak (dBμV/m)					
1~6	3	54	74					

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Remark: (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ 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. EUT Configuration 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 : S242P

## 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 (VGA mode 1920\*1080, VGA mode 800\*600, DVI mode 1920\*1080, DVI mode 800\*600, CVBS in, Y+Pb+Pr, S-Video ) 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) 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 scanning curves are attached in following pages.

### 5.7. Measuring Results

#### PASS.

The frequency range from 30MHz to 6000MHz is investigated.

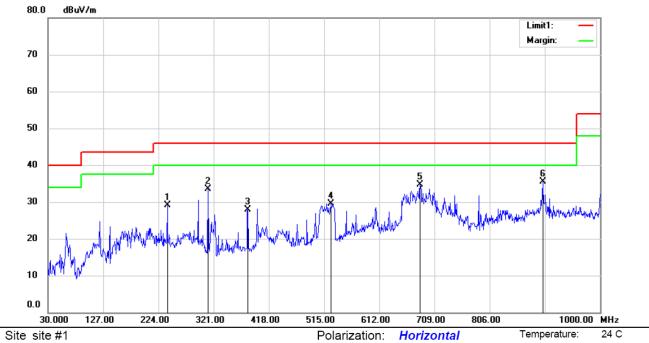
Please refer to following pages.

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Humidity:

53 %



Limit: ( RE)FCC PART 15 CLASS B

Mode: VGA IN(1920\*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1		239.5200	49.26	-20.13	29.13	46.00	-16.87	QP			
2		311.3000	51.73	-18.16	33.57	46.00	-12.43	QP			
3		381.1400	43.92	-16.07	27.85	46.00	-18.15	QP			
4		526.6400	41.58	-12.06	29.52	46.00	-16.48	QP			
5		683.7800	44.06	-9.29	34.77	46.00	-11.23	QP			
6	*	899.1200	40.95	-5.53	35.42	46.00	-10.58	QP			

Power: AC 120V/60Hz

\*:Maximum data x:Over limit !:over margin Operator: Wang

Page 23 of 40 TRF NO.: FCC15/A Report No.: ES140529286E Ver.1.0

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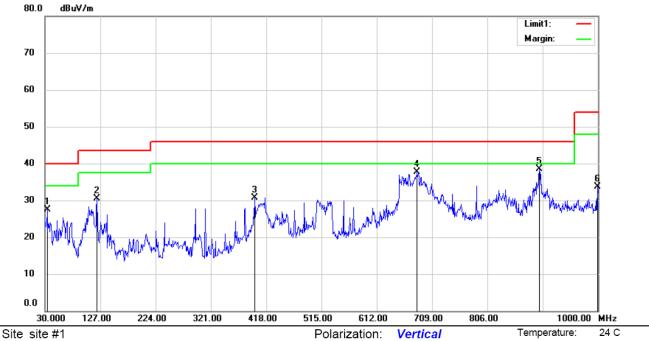
Power: AC 120V/60Hz

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Humidity:

53 %



Limit: ( RE)FCC PART 15 CLASS B

Mode: VGA IN(1920\*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
1		33.8800	49.80	-22.31	27.49	40.00	-12.51	QP			
2		121.1800	54.05	-23.45	30.60	43.50	-12.90	QP			
3		397.6300	46.29	-15.53	30.76	46.00	-15.24	QP			
4		682.8100	46.95	-9.30	37.65	46.00	-8.35	QP			
5	*	897.1800	44.18	-5.58	38.60	46.00	-7.40	QP			
6		999.0300	37.94	-4.32	33.62	54.00	-20.38	QP			

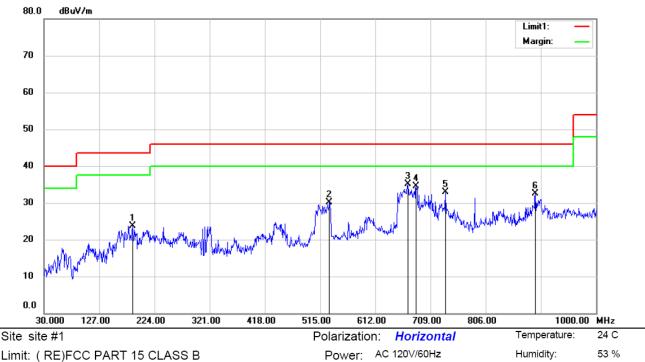
\*:Maximum data x:Over limit !:over margin Operator: Wang

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Humidity:

53 %



Limit: ( RE)FCC PART 15 CLASS B

Mode: VGA IN(800\*600)

Note:

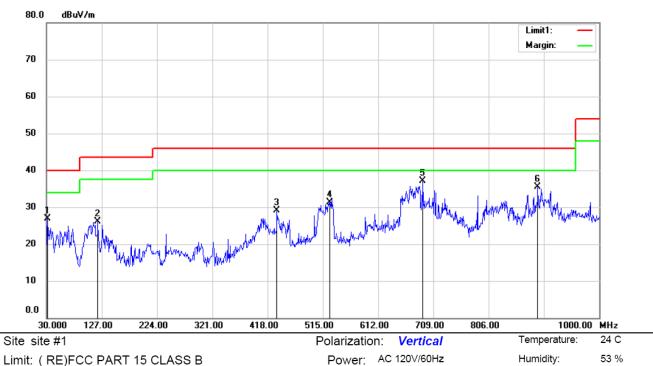
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		185.2000	46.42	-22.76	23.66	43.50	-19.84	QP			
2		531.4900	42.07	-11.93	30.14	46.00	-15.86	QP			
3	*	669.2300	44.46	-9.43	35.03	46.00	-10.97	QP			
4		683.7800	43.81	-9.29	34.52	46.00	-11.48	QP			
5		735.1900	41.32	-8.50	32.82	46.00	-13.18	QP			
6		893.3000	38.12	-5.63	32.49	46.00	-13.51	QP			

\*:Maximum data x:Over limit !:over margin Operator: Wang

Page 25 of 40 TRF NO.: FCC15/A Report No.: ES140529286E Ver.1.0

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Limit: ( RE)FCC PART 15 CLASS B

Mode: VGA IN(800\*600)

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.9400	49.26	-22.33	26.93	40.00	-13.07	QP			
2		120.2100	49.42	-23.31	26.11	43.50	-17.39	QP			
3		434.4900	43.68	-14.60	29.08	46.00	-16.92	QP			
4		527.6100	43.36	-12.03	31.33	46.00	-14.67	QP			
5	*	690.5700	46.38	-9.22	37.16	46.00	-8.84	QP			
6		892.3300	41.09	-5.66	35.43	46.00	-10.57	QP			

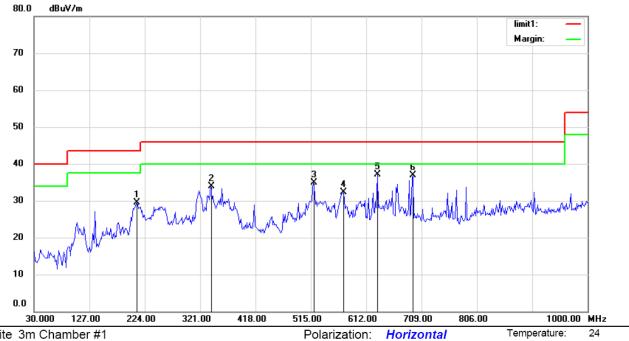
\*:Maximum data x:Over limit !:over margin Operator: Wang

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Humidity:

53 %



Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode: DVI(1920\*1080)

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
1		210.3205	16.34	13.26	29.60	43.50	-13.90	QP			
2		339.3430	16.39	17.55	33.94	46.00	-12.06	QP			
3		519.6635	13.92	20.97	34.89	46.00	-11.11	QP			
4		572.5160	10.77	21.50	32.27	46.00	-13.73	QP			
5	*	631.5865	13.79	23.24	37.03	46.00	-8.97	QP			
6		693.7660	12.51	24.46	36.97	46.00	-9.03	QP			

Power: AC 120V/60Hz

\*:Maximum data x:Over limit !:over margin Operator: KK

TRF NO.: FCC15/A Page 27 of 40 Report No.: ES140529286E Ver.1.0

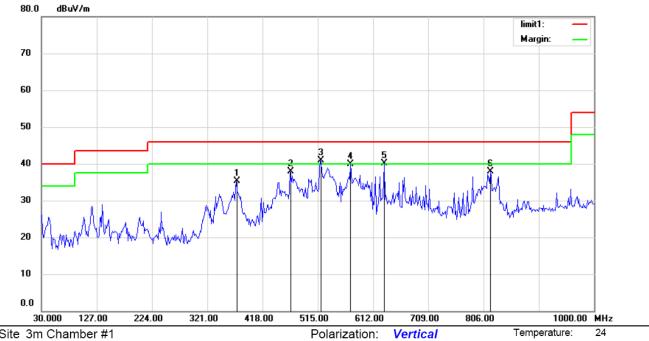
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Humidity:

53 %



Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode: DVI(1920\*1080)

Note:

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		371.9872	17.74	17.54	35.28	46.00	-10.72	QP			
2		466.8110	18.19	19.74	37.93	46.00	-8.07	QP			
3	*	519.6635	20.01	20.93	40.94	46.00	-5.06	QP			
4		572.5160	18.58	21.35	39.93	46.00	-6.07	QP			
5	ļ	631.5865	16.82	23.21	40.03	46.00	-5.97	QP			
6		818.1250	13.36	24.55	37.91	46.00	-8.09	QP			

Power: AC 120V/60Hz

\*:Maximum data x:Over limit !:over margin Operator: KK

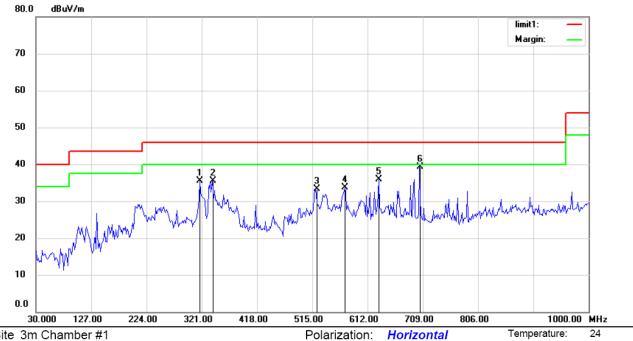
TRF NO.: FCC15/A Page 28 of 40 Report No.: ES140529286E Ver.1.0

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Humidity:

53 %



Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode: DVI(800\*600)

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		317.5801	18.81	16.64	35.45	46.00	-10.55	QP			
2		339.3430	17.94	17.55	35.49	46.00	-10.51	QP			
3		521.2180	12.21	21.01	33.22	46.00	-12.78	QP			
4		572.5160	12.18	21.50	33.68	46.00	-12.32	QP			
5		631.5865	12.64	23.24	35.88	46.00	-10.12	QP			
6	*	703.0930	15.11	24.24	39.35	46.00	-6.65	QP			

Power: AC 120V/60Hz

\*:Maximum data x:Over limit !:over margin Operator: KK

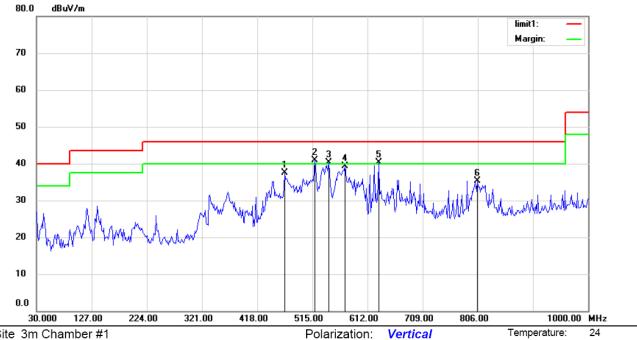
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Humidity:

Operator: KK

53 %



Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode: DVI(800\*600)

Note:

No.	M	κ. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		466.8107	17.72	19.74	37.46	46.00	-8.54	QP			
2	*	519.6634	19.90	20.93	40.83	46.00	-5.17	QP			
3	ļ	544.5352	18.63	21.59	40.22	46.00	-5.78	QP			
4		572.5160	17.88	21.35	39.23	46.00	-6.77	QP			
5	ļ	631.5865	17.15	23.21	40.36	46.00	-5.64	QP			
6		805.6891	10.67	24.62	35.29	46.00	-10.71	QP			

Power: AC 120V/60Hz

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

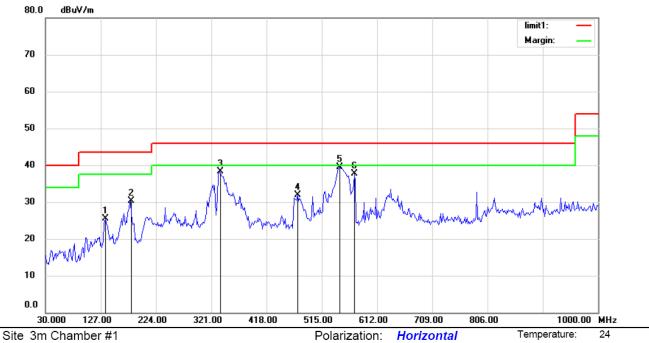
Page 30 of 40 TRF NO.: FCC15/A Report No.: ES140529286E Ver.1.0

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Humidity:

53 %



Limit: ( RE)FCC PART 15 CLASS B

Mode: CVBS Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		135.7051	14.49	10.92	25.41	43.50	-18.09	QP			
2		179.2308	17.98	12.23	30.21	43.50	-13.29	QP			
3	(	336.2340	20.84	17.37	38.21	46.00	-7.79	QP			
4	4	473.0288	11.95	19.96	31.91	46.00	-14.09	QP			
5	* !	546.0897	17.93	21.65	39.58	46.00	-6.42	QP			
6	į	572.5160	16.11	21.50	37.61	46.00	-8.39	QP			

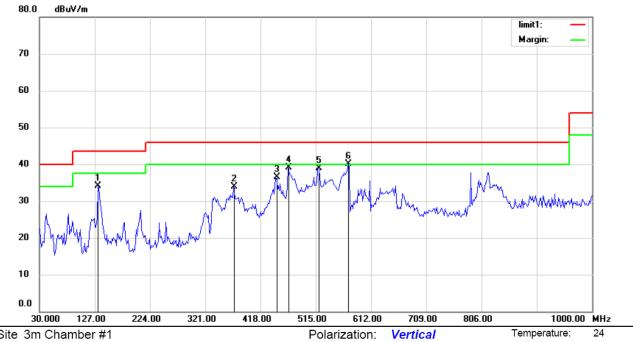
Power: AC 120V/60Hz

\*:Maximum data x:Over limit !:over margin Operator: KK

TRF NO.: FCC15/A Page 31 of 40 Report No.: ES140529286E Ver.1.0

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Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode: CVBS Note:

Power: AC 120V/60Hz Humidity: 53 %

Operator: KK

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	•	132.5961	23.06	11.11	34.17	43.50	-9.33	QP			
2	3	370.4327	16.47	17.41	33.88	46.00	-12.12	QP			
3	4	445.0481	16.51	19.94	36.45	46.00	-9.55	QP			
4	4	466.8110	19.44	19.74	39.18	46.00	-6.82	QP			
5	į	519.6635	17.98	20.93	38.91	46.00	-7.09	QP			
6	* !	572.5160	18.80	21.35	40.15	46.00	-5.85	QP			

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

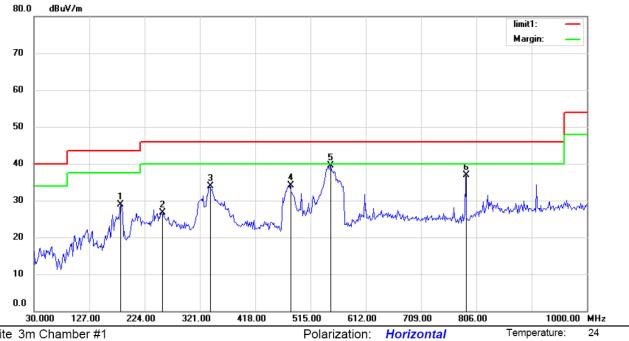
TRF NO.: FCC15/A Page 32 of 40 Report No.: ES140529286E Ver.1.0

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Humidity:

53 %



Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode:Y+Pb+Pr

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		182.3397	16.49	12.49	28.98	43.50	-14.52	QP			
2		253.8462	11.78	14.97	26.75	46.00	-19.25	QP			
3	;	337.7885	16.42	17.46	33.88	46.00	-12.12	QP			
4		479.2468	14.02	20.15	34.17	46.00	-11.83	QP			
5	*	550.7532	17.84	21.72	39.56	46.00	-6.44	QP			
6		787.0353	12.86	24.06	36.92	46.00	-9.08	QP			

Power: AC 120V/60Hz

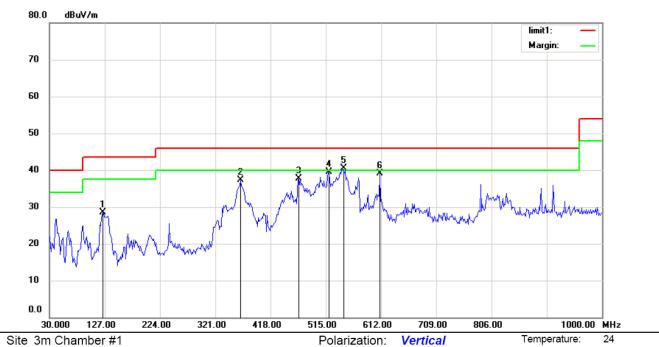
\*:Maximum data x:Over limit !:over margin Operator: KK

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Humidity:

53 %



Limit: ( RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz Mode:Y+Pb+Pr Note:

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		123.2692	16.17	12.30	28.47	43.50	-15.03	QP			
2		365.7692	19.66	17.63	37.29	46.00	-8.71	QP			
3		466.8110	17.90	19.74	37.64	46.00	-8.36	QP			
4		519.6635	18.61	20.93	39.54	46.00	-6.46	QP			
5	*	544.5353	18.96	21.59	40.55	46.00	-5.45	QP			
6		609.8237	16.47	22.70	39.17	46.00	-6.83	QP			

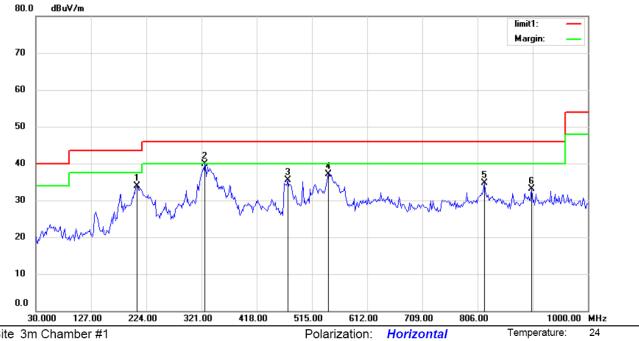
\*:Maximum data x:Over limit !:over margin Operator: KK

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53 %

Humidity:



Site 3m Chamber #1

Limit: (RE)FCC PART 15 CLASS B

Mode:S-Video

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		207.2114	20.62	13.27	33.89	43.50	-9.61	QP			
2	*	326.9070	23.04	16.93	39.97	46.00	-6.03	QP			
3		473.0288	15.45	19.96	35.41	46.00	-10.59	QP			
4		544.5352	15.54	21.60	37.14	46.00	-8.86	QP			
5		818.1250	10.13	24.53	34.66	46.00	-11.34	QP			
6		900.5128	7.17	26.03	33.20	46.00	-12.80	QP			

Power: AC 120V/60Hz

\*:Maximum data x:Over limit !:over margin Operator: KK

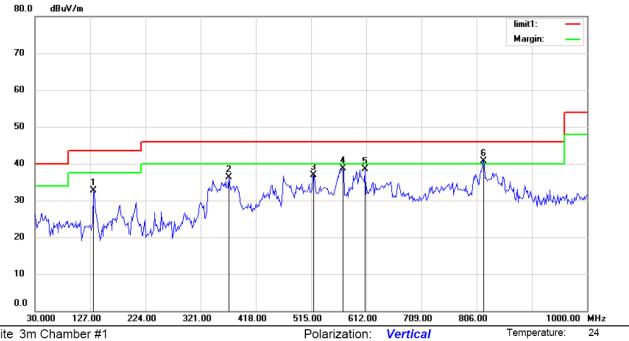
TRF NO.: FCC15/A Page 35 of 40 Report No.: ES140529286E Ver.1.0

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Humidity:

53 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15 CLASS B

Mode:S-Video

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	,	132.5961	21.56	11.11	32.67	43.50	-10.83	QP			
2	3	370.4326	18.97	17.41	36.38	46.00	-9.62	QP			
3	Ę	19.6634	15.98	20.93	36.91	46.00	-9.09	QP			
4	Ę	70.9615	17.40	21.31	38.71	46.00	-7.29	QP			
5	6	609.8237	15.76	22.70	38.46	46.00	-7.54	QP			
6	* 8	318.1250	16.11	24.55	40.66	46.00	-5.34	QP			

Power: AC 120V/60Hz

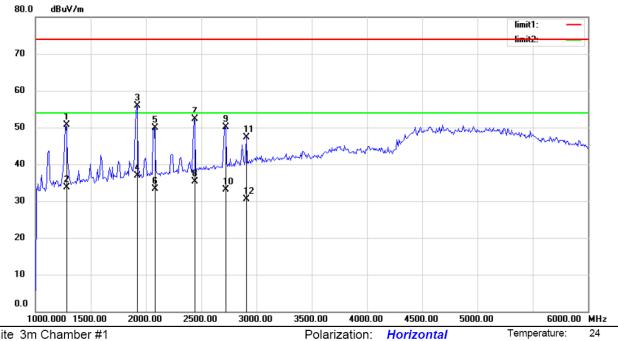
\*:Maximum data x:Over limit !:over margin Operator: KK

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53 %

Humidity:



Power: AC 220V/50Hz

Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode: VGA(1920\*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1272.436	63.61	-12.97	50.64	74.00	-23.36	peak			
2		1272.436	46.70	-12.97	33.73	54.00	-20.27	AVG			
3		1913.462	66.77	-10.94	55.83	74.00	-18.17	peak			
4	*	1913.462	47.80	-10.94	36.86	54.00	-17.14	AVG			
5		2073.718	60.26	-10.39	49.87	74.00	-24.13	peak			
6		2073.718	43.60	-10.39	33.21	54.00	-20.79	AVG			
7		2434.295	61.48	-9.10	52.38	74.00	-21.62	peak			
8	:	2434.295	44.50	-9.10	35.40	54.00	-18.60	AVG			
9	:	2714.744	57.96	-7.86	50.10	74.00	-23.90	peak			
10		2714.744	40.90	-7.86	33.04	54.00	-20.96	AVG			
11	:	2907.051	54.31	-7.00	47.31	74.00	-26.69	peak			
12		2907.051	37.60	-7.00	30.60	54.00	-23.40	AVG			

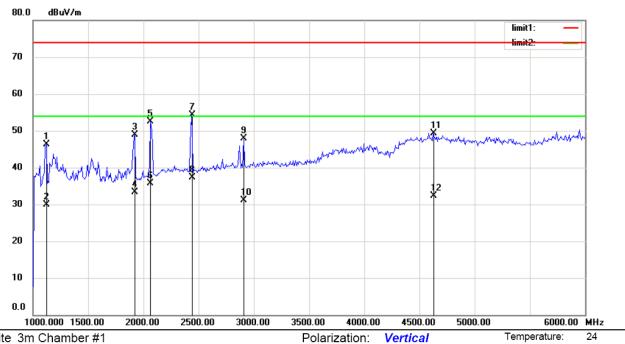
Operator: KK \*:Maximum data x:Over limit !:over margin

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Humidity:

53 %



Power: AC 220V/50Hz

Site 3m Chamber #1

Limit: ( RE)FCC PART 15 CLASS B

Mode: VGA(1920\*1080)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1120.192	58.84	-12.59	46.25	74.00	-27.75	peak			
2		1120.192	42.50	-12.59	29.91	54.00	-24.09	AVG			
3		1921.474	59.91	-10.97	48.94	74.00	-25.06	peak			
4		1921.474	44.30	-10.97	33.33	54.00	-20.67	AVG			
5		2065.705	62.50	-9.97	52.53	74.00	-21.47	peak			
6		2065.705	45.60	-9.97	35.63	54.00	-18.37	AVG			
7		2434.295	62.99	-8.59	54.40	74.00	-19.60	peak			
8	*	2434.295	45.90	-8.59	37.31	54.00	-16.69	AVG			
9		2907.051	55.11	-7.14	47.97	74.00	-26.03	peak			
10		2907.051	38.30	-7.14	31.16	54.00	-22.84	AVG			
11		4621.795	52.74	-3.51	49.23	74.00	-24.77	peak			
12		4621.795	35.90	-3.51	32.39	54.00	-21.61	AVG			

\*:Maximum data x:Over limit !:over margin Operator: KK

TRF NO.: FCC15/A Page 38 of 40 Report No.: ES140529286E Ver.1.0



# 6. PHOTOGRAPHS

# 6.1. Photos of Conducted Emission Measurement



