

APPLICATION FOR CERTIFICATION

On Behalf of

SHENZHEN KSAI ELECTRONICS CO.,LTD

15" TFT-LCD Monitor

Model Number: KS15

Prepared for : SHENZHEN KSAI ELECTRONICS CO.,LTD  
31<sup>ST</sup> FL,YIHAI SQUARE, CHUANGYE RD, NANSHAN  
DISTRICT SHENZHEN, GUANGDONG, CHINA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.  
No. 6, Ke Feng Rd., 52 Block,  
Shenzhen Science & Industrial Park,  
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F07278  
Date of Test : Jun.20~21, 2007  
Date of Report : Jul.02, 2007

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## TEST REPORT CERTIFICATION

Applicant : SHENZHEN KSAI ELECTRONICS CO.,LTD  
Manufacturer : SHENZHEN KSAI ELECTRONICS CO.,LTD  
EUT Description : 15" TFT-LCD Monitor  
(A) MODEL NO. : KS15  
(B) SERIAL NO. : N/A  
(C) POWER SUPPLY : DC 12V Adaptor Input 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2006

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits for radiated and conducted emissions. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Jun.20~21, 2007

Prepared by : YoYo Wang / Assistant

Reviewer : Iceman Hu / Senior Engineer

Approved & Authorized Signer : Ken Lu / Deputy Manager

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15: 2006 ANSI C63.4: 2003	Class B	PASS
Radiated Emission Test	FCC Part 15: 2006 ANSI C63.4: 2003	Class B	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Description : 15" TFT-LCD Monitor  
 Model Number : KS15  
 Applicant : SHENZHEN KSAI ELECTRONICS CO.,LTD  
 31<sup>ST</sup> FL,YIHAI SQUARE, CHUANGYE RD, NANSHAN  
 DISTRICT SHENZHEN, GUANGDONG, CHINA  
 Manufacturer : SHENZHEN KSAI ELECTRONICS CO.,LTD  
 31<sup>ST</sup> FL,YIHAI SQUARE, CHUANGYE RD, NANSHAN  
 DISTRICT SHENZHEN, GUANGDONG, CHINA  
 Adaptor : Manufacturer: MeiKai, M/N: PDN-48-48A  
 Cable: Shielded Detachable, 1.5m  
 VGA Cable : Shielded, Detachable, 1.8m  
 (Bonded two ferrite cores)  
 Audio Cable : Shielded, Detachable, 1.8m  
 Power Cord : Unshielded, Detachable, 1.8m (3 pin)  
 Date of Test : Jun.20~21, 2007

### 2.2. Tested Supporting System Details

#### 2.2.1. PERSONAL COMPUTER

EMC CODE : Test PC G  
 M/N : AG017PA#AB2  
 S/N : CN5470G18  
 Manufacturer : HP  
 Power cord : Unshielded, detachabled , 1.8m  
 FCC ID : By DoC  
 BSMI ID : R33001

## 2.2.2.K KEYBOARD

EMC CODE	:	ACS-EMC-K08R
M/N	:	5209
S/N	:	BN44300510
Manufacturer	:	HP
Data Cable	:	Shielded, Undetachabled, 1.8m
FCC ID	:	E5XKB5209
BSMI ID	:	R31213

## 2.2.3.HDD

EMC CODE	:	ACS-EMC-HDD07
M/N	:	F12-UF
S/N	:	A0100215-5390027
Manufacturer	:	Terasys
Data Cable	:	Shielded, Detachabled, 1.8m
FCC ID	:	By DoC
BSMI ID	:	4912A022

## 2.2.4.PRINTER

EMC CODE	:	ACS-EMC-PT03
M/N	:	EN8060A
S/N	:	908A1001201
Manufacturer	:	OKIPAGE
Data Cable	:	Shielded, Detachabled, 1.5m
Power Cord	:	Unshielded, Detachabled, 1.8m
FCC ID	:	By DoC
BSMI ID	:	3882A463

## 2.2.5.MOUSE

EMC CODE	:	ACS-EMC-M06R
M/N	:	5187-2155
S/N	:	K043801559
Manufacturer	:	HP
Data Cable	:	Shielded, Undetachabled, 1.8m
FCC ID	:	By DoC
BSMI ID	:	R31258

## 2.3.Test Facility

### Site Description

- 3m Anechoic Chamber : Jun. 13, 2006 File on Federal Communication Commission  
Registration Number: 90454
- 3m & 10m Anechoic Chamber : Jan.31, 2007 File on Federal Communication Commission  
Registration Number: 794232
- EMC Lab. : Accredited by DATech, German  
Registration Number: DAT-P-091/99-01  
Feb. 02, 2004
- Accredited by NVLAP, USA  
NVLAP Code: 200372-0  
Apr.01, 2006

## 2.4.Measurement Uncertainty

No.	Item	Uncertainty	Remark
1.	Uncertainty for Conducted Emission Test	1.22dB	
2.	Uncertainty for Radiated Emission Test	3.14dB	3m Chamber
3.	Uncertainty for Radiated Emission Test	3.18dB	10m Chamber
4.	Uncertainty for Power Clamp Test	1.38dB	

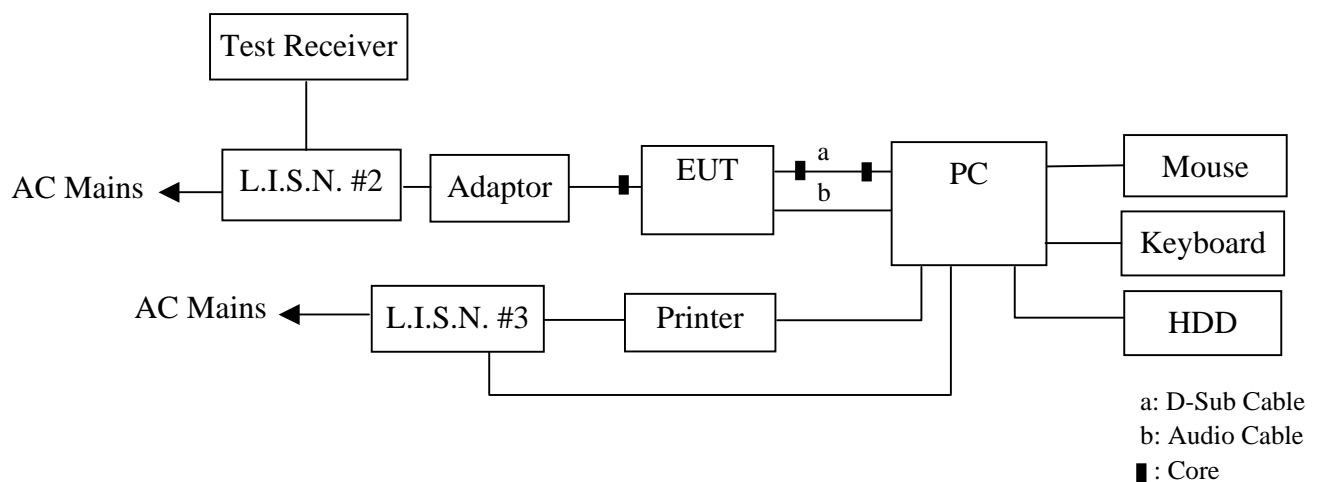
### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	May 11, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 11, 07	1 Year
3.	L.I.S.N.#3	EMCO	3825/2	9006-1660	May 11, 07	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 11, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	LISN Cable 1#	Feb.16, 07	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	Feb.16, 07	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Feb.16, 07	1/2 Year

#### 3.2. Block Diagram of Test Setup

##### 3.2.1. Block diagram of connection between the EUT and simulators



*(EUT: 15" TFT-LCD Monitor)*

#### 3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.



### 3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4.1.15" TFT-LCD Monitor (EUT)

Model Number : KS15  
Serial Number : N/A  
Manufacturer : SHENZHEN KSAI ELECTRONICS CO.,LTD

3.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2..

### 3.5.Operating Condition of EUT

3.5.1.Setup the EUT and simulator as shown as Section 3.2.

3.5.2.Turn on the power of all equipment.

3.5.3.PC system run the Self-test program "EMI Test" by windows XP and send "H" Character to Color Monitor (EUT) through VGA card, the Screen of EUT displayed and filled with "H" pattern.

3.5.4.During the test the EUT was displayed "H" pattern and played music through audio cable. The Test Mode refers to 3.6 (Running "H" Pattern and Playing Music 640\*480 60Hz/ Running "H" Pattern and Playing Music 800\*600 75Hz / Running "H" Pattern and Playing Music 1024\*768 75Hz) and measures it.

3.5.5.The other peripheral devices were driven and operated in turn during all testing.

### 3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2003 on conducted Emission test.

The bandwidth of the R&S Test Receiver ESHS10 was set at 10kHz.

The frequency range from 150kHz to 30MHz was checked using a peak detector.

The all reading of measurement was with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

EUT with the following test modes were done conducted measurement and selected (**mode 3**) to read Q.P & Average value and all the test results are listed in section 3.7. The details of test modes are as follow:

No.	Input Port	Resolution & Frequency	Reference Test Data No.	
			VA	VB
1.	VGA	640*480/60Hz	#12	#11
2.		800*600/75Hz	#9	#10
3.		<b>1024*768/75Hz (※)</b>	<b>#8</b>	<b>#7</b>

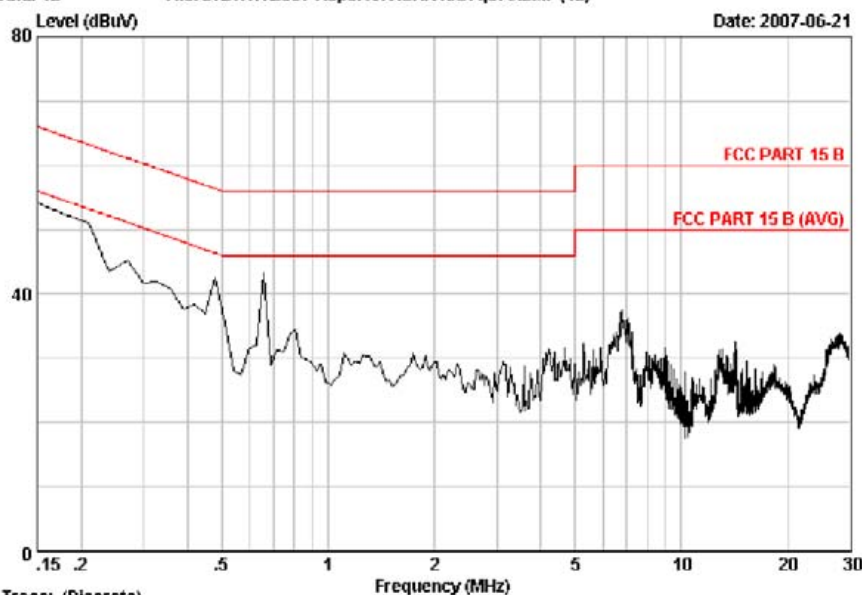
### 3.7.Power Line Conducted Emission Test Results

**PASSED**



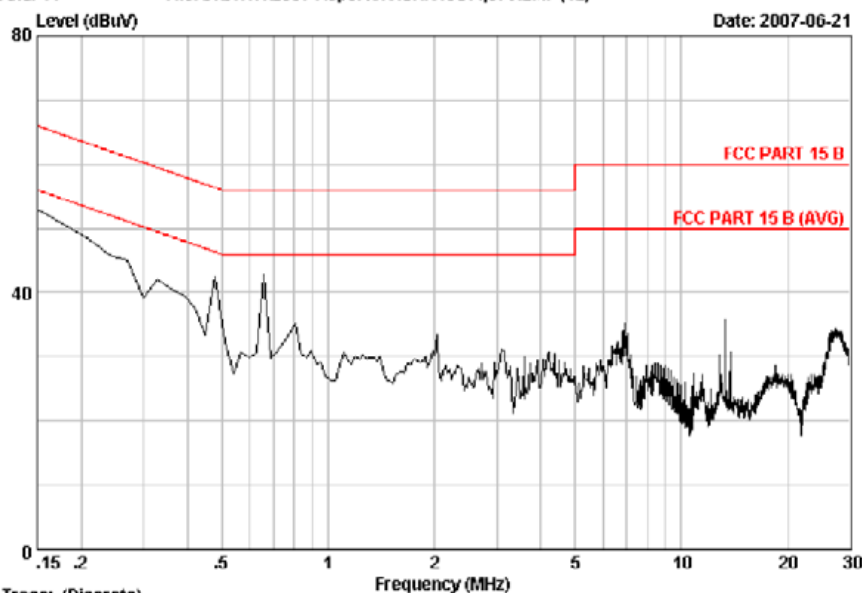
No.6 ke Feng Road ,Block 52,  
Shenzhen Science & Industry Park  
Nantou,Shenzhen,Guangdong,China  
Tel:+86-755-26639495-7  
Fax:+86-755-26632877  
Postcode:518057

Data: 12 File: D:\DATA\2007 Report\KKS\ACS7q079.EMI (12) Date: 2007-06-21



Trace: (Discrete)  
Site no. : Audix 1# Conduction Data no. : 12  
Dis. / Ant. : -- VA KNW-407 LISN Phase :  
Limit : FCC PART 15 B  
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : Chinalee  
EUT : 15" TFT-LCD MONITOR M/N:KS15  
Power Rating : DC 12V Input Adaptor AC 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
640\*480@60Hz

Data: 11 File: D:\DATA\2007 Report\KKS\ACS7q079.EMI (12) Date: 2007-06-21

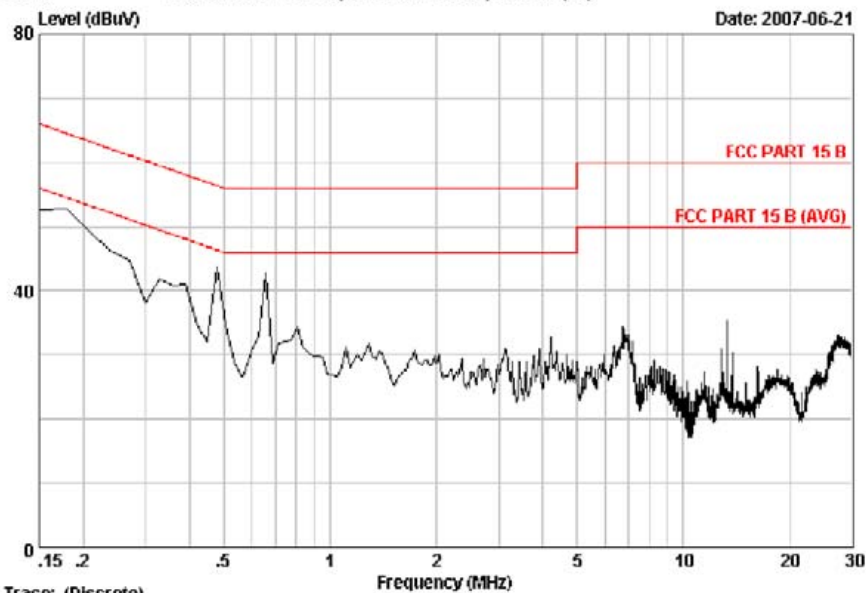


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Dis. / Ant. : -- VB KNW-407 LISN Phase :  
Limit : FCC PART 15 B  
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : Chinalee  
EUT : 15" TFT-LCD MONITOR M/N:KS15  
Power Rating : DC 12V Input Adaptor AC 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
640\*480@60Hz



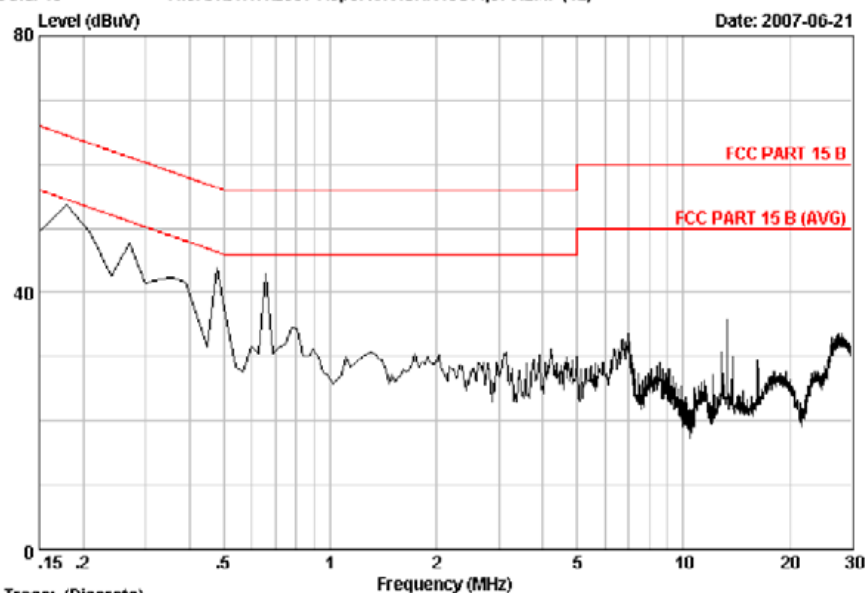
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Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-26639495-7  
Fax: +86-755-26632877  
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Data: 9 File: D:\DATA\2007 Report\KKS\ACS7q079.EMI (12) Date: 2007-06-21



Trace: (Discrete)  
Site no. : Audix 1# Conduction Data no. : 9  
Dis. / Ant. : -- VA KNW-407 LISN Phase :  
Limit : FCC PART 15 B  
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : Chinalee  
EUT : 15" TFT-LCD MONITOR M/N:KS15  
Power Rating : DC 12V Input Adaptor AC 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
800\*600@75Hz

Data: 10 File: D:\DATA\2007 Report\KKS\ACS7q079.EMI (12) Date: 2007-06-21



Trace: (Discrete)  
Site no. : Audix 1# Conduction Data no. : 10  
Dis. / Ant. : -- VB KNW-407 LISN Phase :  
Limit : FCC PART 15 B  
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : Chinalee  
EUT : 15" TFT-LCD MONITOR M/N:KS15  
Power Rating : DC 12V Input Adaptor AC 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
800\*600@75Hz

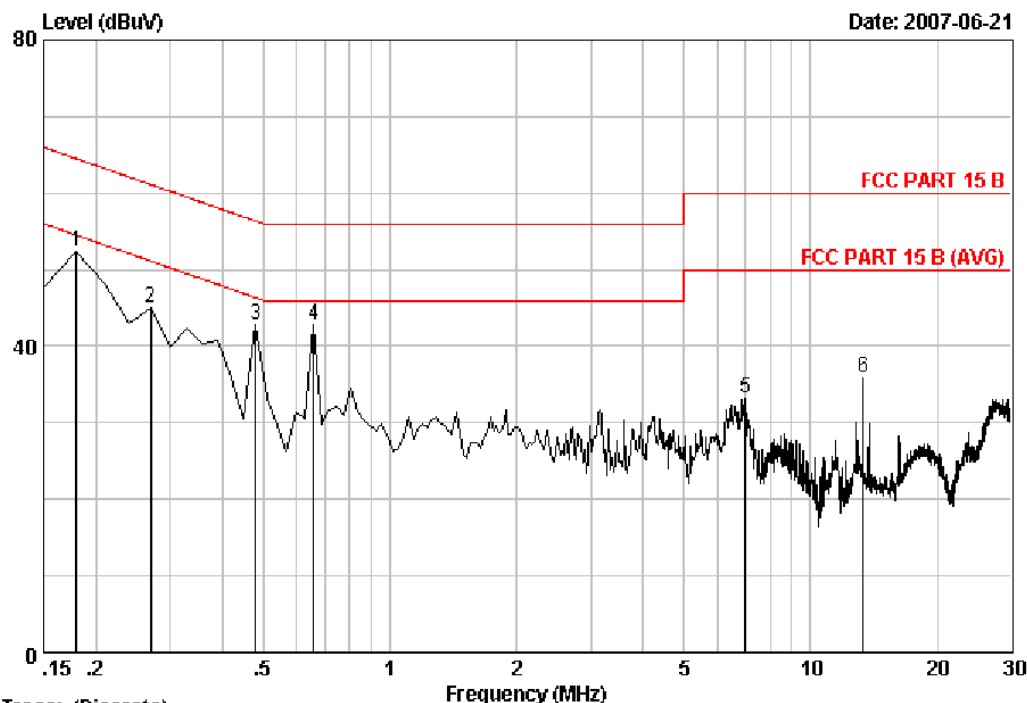


No.6 ke Feng Road ,Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-26639495-7  
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Postcode: 518057

Data: 8

File: D:\DATA\2007 Report\KKS\ACS7q079.EMI (12)

Date: 2007-06-21



Trace: (Discrete)

Site no. : Audix 1# Conduction Data no. : 8  
Dis. / Ant. : -- VA KNW-407 LISN Phase :  
Limit : FCC PART 15 B  
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : ChinaLee  
EUT : 15" TFT-LCD MONITOR M/N:KS15  
Power Rating : DC 12V Input Adaptor AC 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
1024\*768@75Hz

Freq. (MHz)	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin	Remark
				Level (dBuV)	Limits (dBuV)		
1	0.18	0.64	10.21	41.57	52.42	12.07	QP
2	0.27	0.44	10.09	34.57	45.10	16.04	QP
3	0.48	0.26	10.13	32.41	42.80	13.57	QP
4	0.66	0.23	10.13	32.49	42.85	13.15	QP
5	6.99	0.20	10.22	22.87	33.29	26.71	QP
6	13.31	0.23	10.27	25.28	35.78	24.22	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

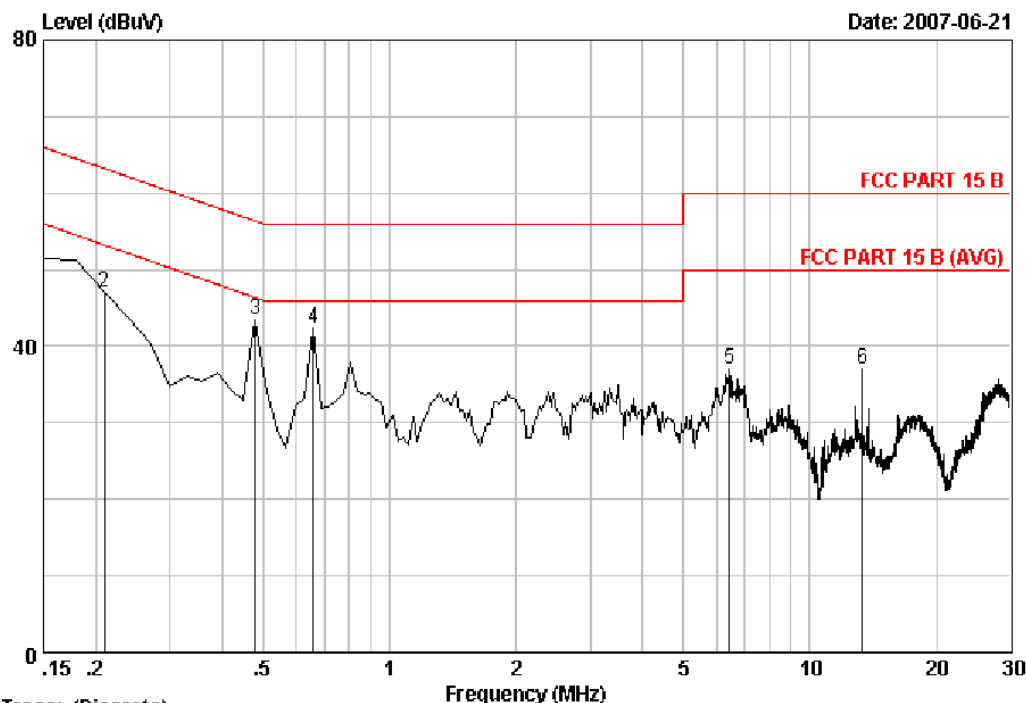


No.6 ke Feng Road ,Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-26639495-7  
Fax: +86-755-26632877  
Postcode: 518057

Data: 7

File: D:\DATA\2007 Report\K\KSA\ACS7q079.EMI (12)

Date: 2007-06-21



Trace: (Discrete)

Site no. : Audix 1# Conduction Data no. : 7  
Dis. / Ant. : -- VB KMW-407 LISN Phase :  
Limit : FCC PART 15 B  
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : ChinaLee  
EUT : 15" TFT-LCD MONITOR M/N:KS15  
Power Rating : DC 12V Input Adaptor AC 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
1024\*768@75Hz

Freq. (MHz)	LISN.		Cable		Emission		Margin	Remark
	Factor (dB)	Loss (dB)	Reading (dBUV)	Level (dBUV)	Limits (dBUV)	(dB)		
1	0.15	1.47	10.30	39.61	51.38	66.00	14.62	QP
2	0.21	0.94	10.14	35.84	46.92	63.22	16.30	QP
3	0.48	0.54	10.13	32.74	43.41	56.37	12.96	QP
4	0.66	0.43	10.13	31.70	42.26	56.00	13.74	QP
5	6.45	0.33	10.21	26.43	36.97	60.00	23.03	QP
6	13.31	0.50	10.27	26.13	36.90	60.00	23.10	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

## 4. RADIATED EMISSION TEST

### 4.1. Test Equipment

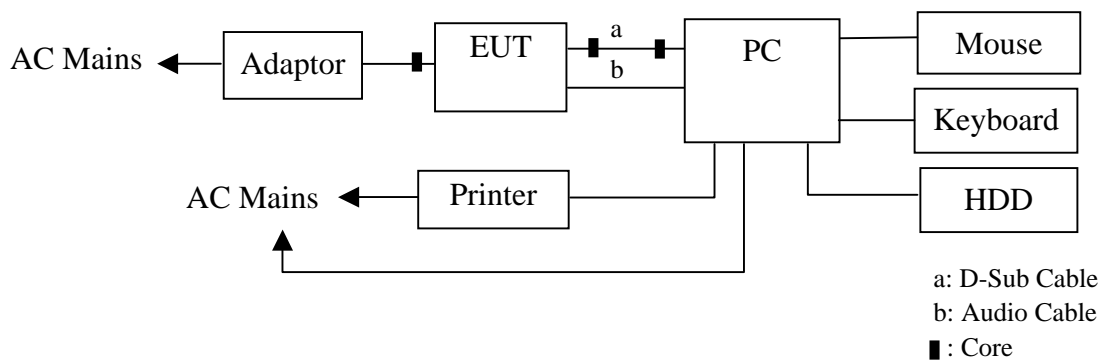
The following test equipments are used during the radiated emission Test :

4.1.1. For frequency range 30MHz~1000MHz (At Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	HP	85422E	3625A00181	May 11, 07	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 11, 07	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar.12, 07	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Feb.22, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Jan. 18, 07	1/2 Year
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Jan. 18,07	1/2 Year
7.	RF Cable	FUJIKURAw	RG-55/U	3# Chamber No.3	Jan. 18,07	1/2 Year
8.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Jan. 18,07	1/2 Year
9.	Coaxial Switch	Anritsu	MP59B	M73989	Jan. 18,07	1/2 Year

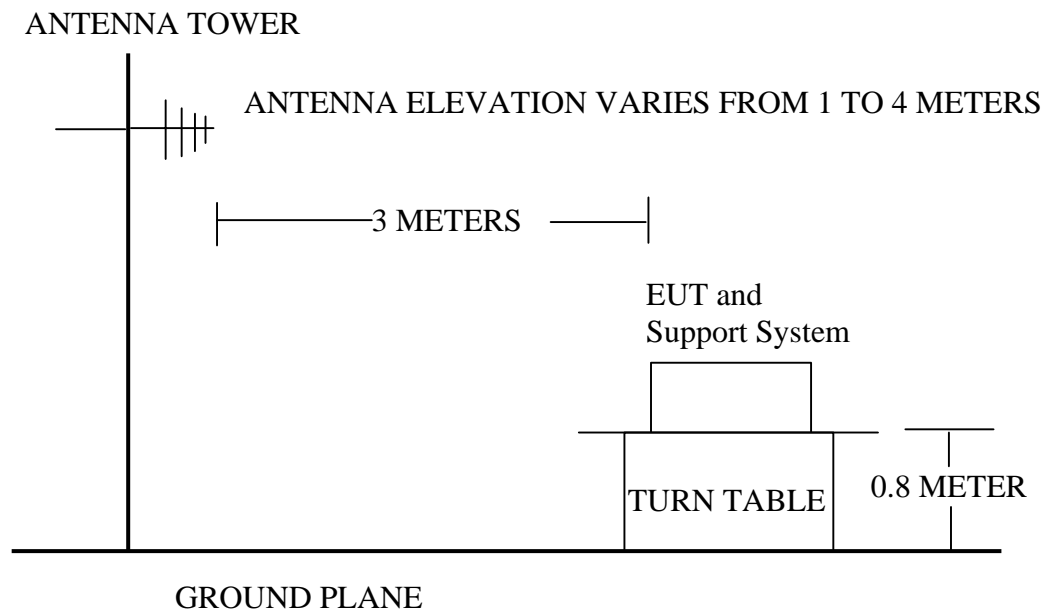
### 4.2. Block Diagram of Test Setup

4.2.1. Block Diagram of connection between EUT and simulators



*(EUT: 15" TFT-LCD Monitor)*

#### 4.2.2. Anechoic Chamber Setup Diagram



#### 4.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log$  Emission level  $\mu\text{V}/\text{m}$
  - (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.

#### 4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

##### 4.4.1. 15" TFT-LCD Monitor (EUT)

Model Number : KS15  
 Serial Number : N/A  
 Manufacturer : SHENZHEN KSAI ELECTRONICS CO.,LTD

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.



## 4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2.

4.5.2. PC system run the Self-test program “EMI Test” by windows XP and send “H” Character to LCD Monitor (EUT) through VGA card, the Screen of EUT displayed and filled with “H” pattern.

4.5.3. During the test the EUT was displayed “H” pattern and played music from the PC through audio cable. The Test Mode refer to 4.6 (Running “H” Pattern and Playing Music 640\*480 60Hz/ Running “H” Pattern and Playing Music 800\*600 75Hz / Running “H” Pattern and Playing Music 1024\*768 75Hz) and measure it.

4.5.4. The other peripheral devices were driven and operated in turn during all testing.

## 4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2003 on Radiated Emission test.

The bandwidth of the R&S Test Receiver ESVS20 was set at 120kHz. (For 30MHz to 1000MHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

For frequency range 30MHz~1000MHz, EUT with the following test modes were measured within Anechoic Chamber and all the scanning waveform were on section 4.7, which include :

Test Mode	Input Port	Resolution & Frequency	Reference Test Data No.	
			Horizontal	Vertical
1.	VGA	640*480/60Hz	#10	#9
2.		800*600/75Hz	#7	#8
3.		<b>1024*768/75Hz (※)</b>	<b>#6</b>	<b>#5</b>

(※ Worst test mode)

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

## 4.7. Radiated Emission Test Results

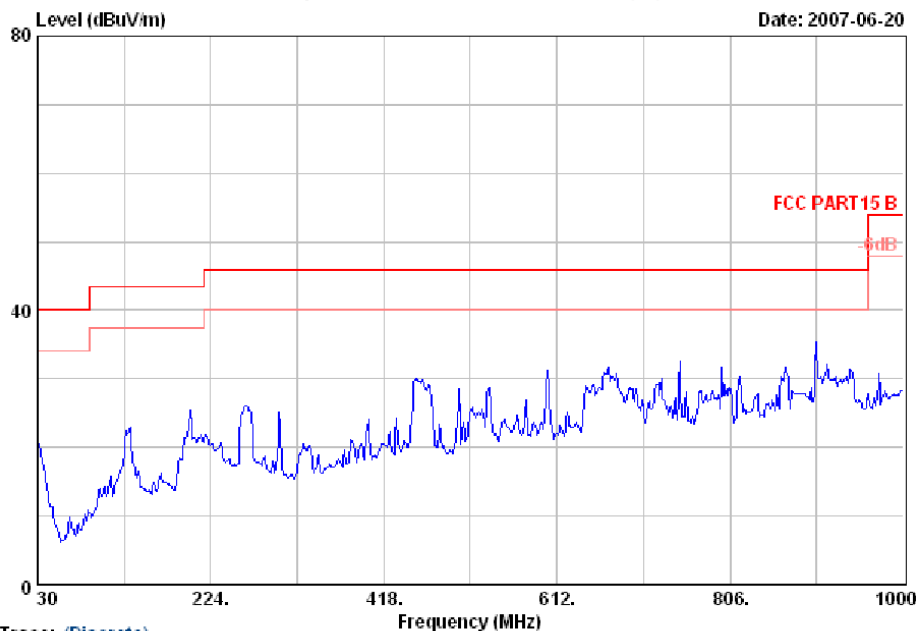
**PASSED**



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Nan shan Science&Industry  
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Data: 10 File: D:/2007 Report Data/KKSA/ACS70079R1-1.EMI (10)

Date: 2007-06-20

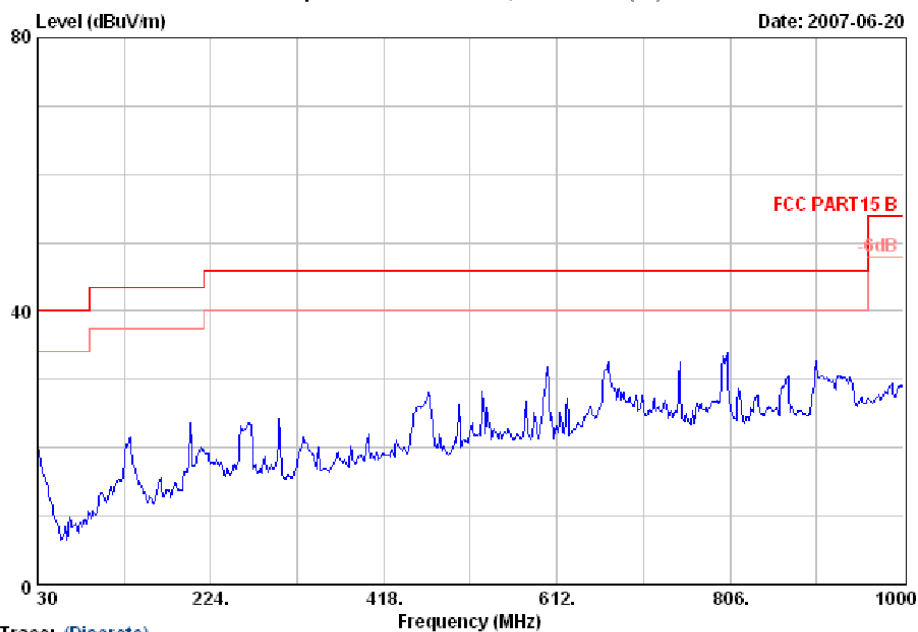


Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 10  
Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL  
Limit : FCC PART15 B  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Victor  
EUT : 15" TFT-LCD Monitor M/N:KS15  
Power Rating : DC 12V Adaptor Input 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
640\*480@60Hz

Data: 9 File: D:/2007 Report Data/KKSA/ACS70079R1-1.EMI (10)

Date: 2007-06-20



Trace: (Discrete)

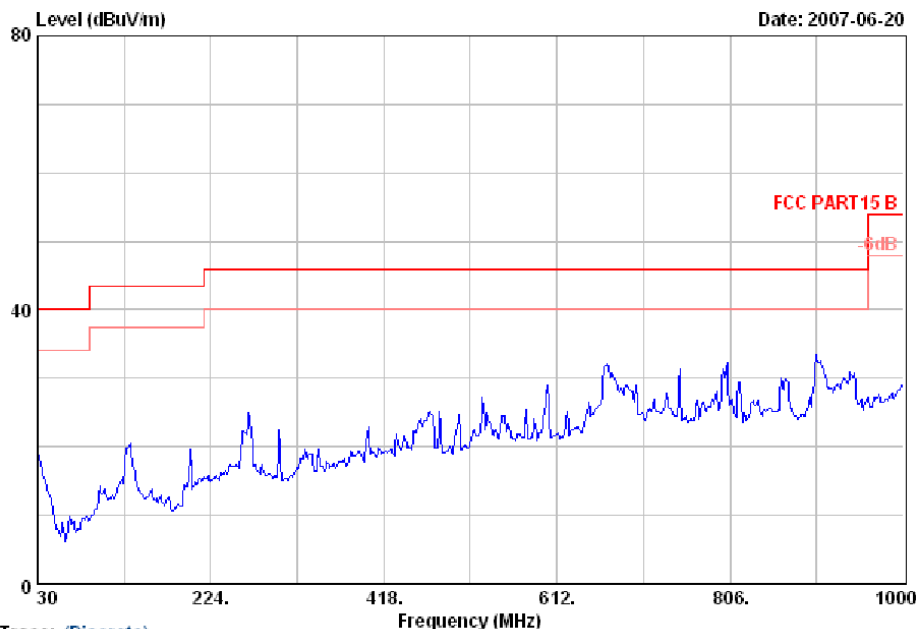
Site no. : 3# Chamber Radiation Data no. : 9  
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL  
Limit : FCC PART15 B  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Victor  
EUT : 15" TFT-LCD Monitor M/N:KS15  
Power Rating : DC 12V Adaptor Input 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
640\*480@60Hz



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Data: 7 File: D:\2007 Report Data\KKS\ACS70079R1-1.EMI (10)

Date: 2007-06-20

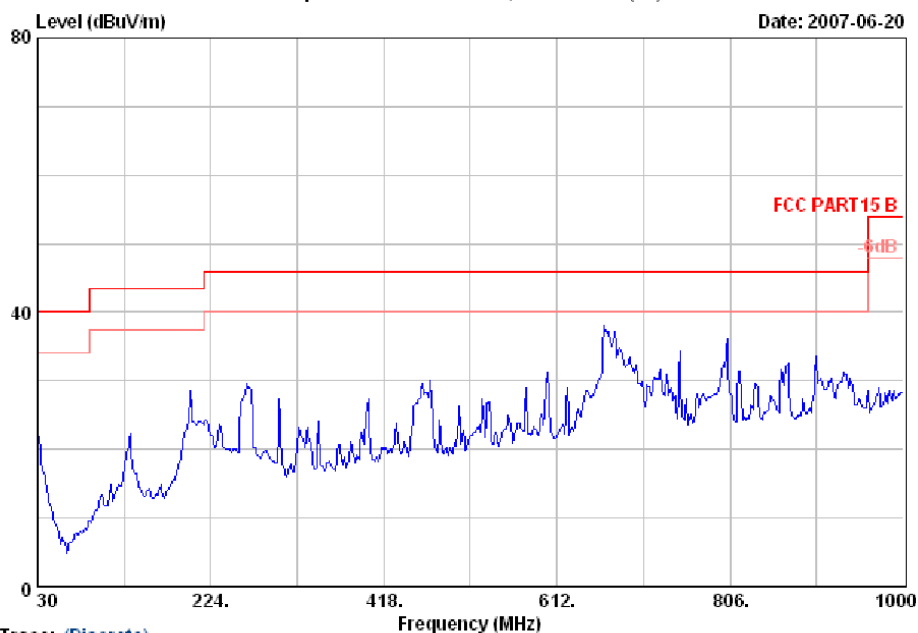


Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 7  
Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL  
Limit : FCC PART15 B  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Victor  
EUT : 15" TFT-LCD Monitor M/N:KS15  
Power Rating : DC 12V Adaptor Input 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
800\*600@75Hz

Data: 8 File: D:\2007 Report Data\KKS\ACS70079R1-1.EMI (10)

Date: 2007-06-20



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 8  
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL  
Limit : FCC PART15 B  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Victor  
EUT : 15" TFT-LCD Monitor M/N:KS15  
Power Rating : DC 12V Adaptor Input 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
800\*600@75Hz

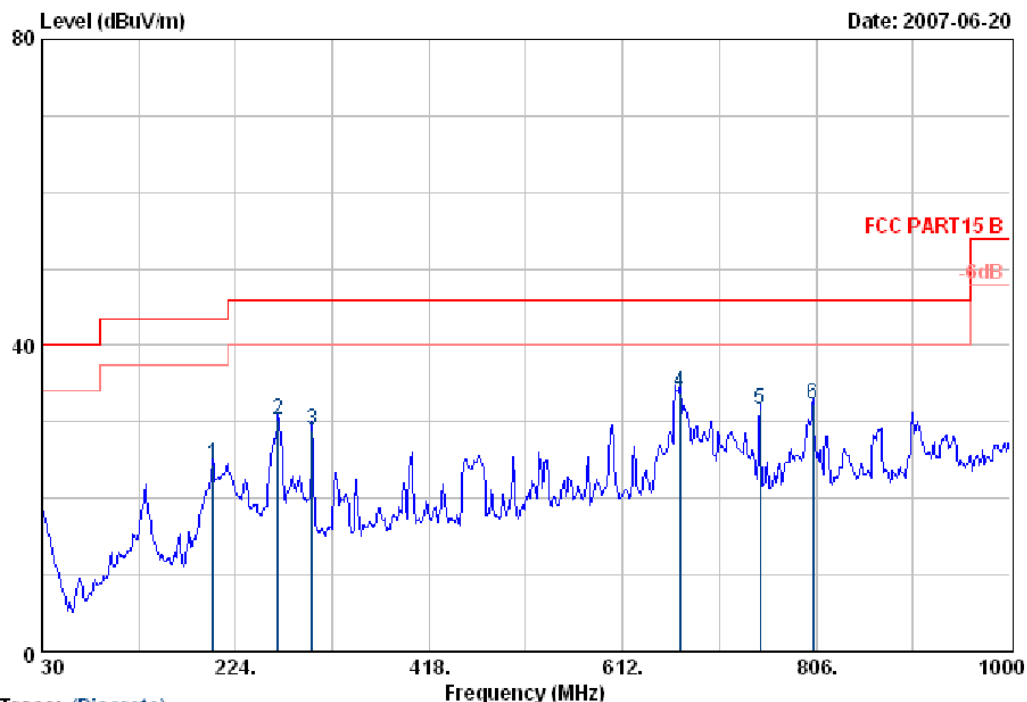


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Data: 6

File: D:\2007 Report Data\KKSAN\ACS7Q079R1-1.EMI (10)

Date: 2007-06-20



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 6  
 Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART15 B  
 Env. / Ins. : 25°C/55% ESVS20 Engineer : Victor  
 EUT : 15" TFT-LCD Monitor M/N:KS15  
 Power Rating : DC 12V Adaptor Input 120V/60Hz  
 Test Mode : Running "H" Pattern and Playing Music  
 1024\*768@75Hz  
 H:1m Deg:198'

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	201.69	10.18	1.37	12.90	24.45	43.50	19.05	QP
2	266.68	13.86	1.64	14.72	30.22	46.00	15.78	QP
3	300.63	13.82	1.64	13.59	29.05	46.00	16.95	QP
4	669.23	20.50	2.33	11.09	33.92	46.00	12.08	QP
5	749.74	21.90	2.59	7.08	31.57	46.00	14.43	QP
6	803.09	21.86	2.66	7.71	32.23	46.00	13.77	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

3. The worst emission was detected at 669.23MHz with corrected signal level of 33.92dBuV/m (Limit is 46.00dBuV/m) when the antenna was at horizontal polarization and at 1.0m high and the turn table was at 198°.

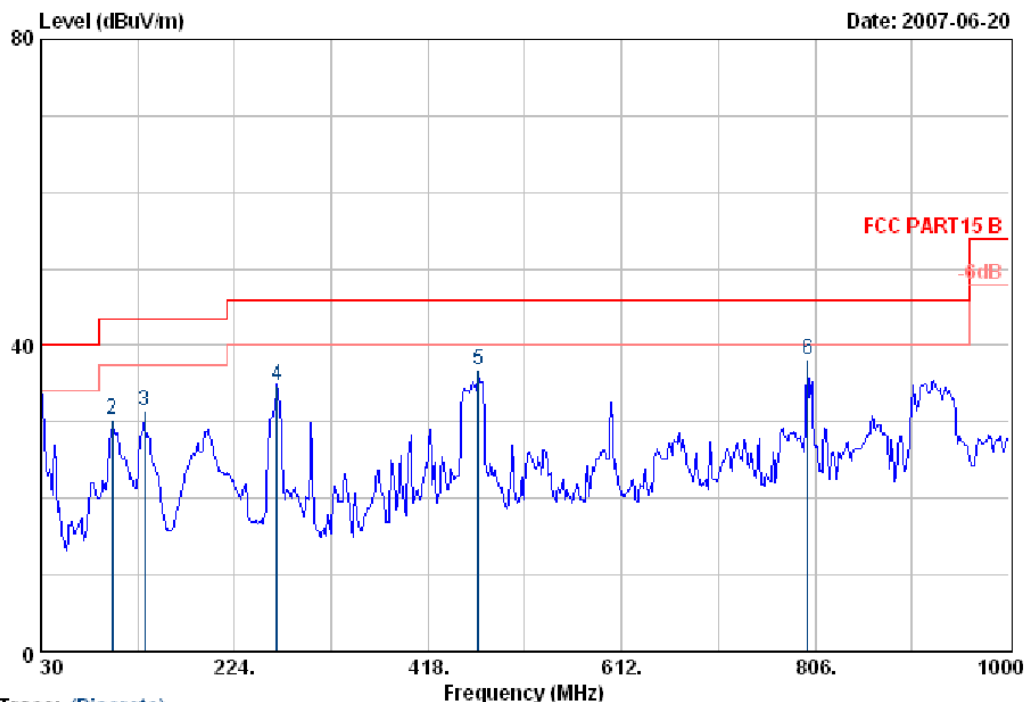
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Data: 5 File: D:\2007 Report Data\KKSAN\ACS7Q079R1-1.EMI (10)

Date: 2007-06-20



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 5  
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL  
Limit : FCC PART15 B  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Victor  
EUT : 15" TFT-LCD Monitor M/N:KS15  
Power Rating : DC 12V Adaptor Input 120V/60Hz  
Test Mode : Running "H" Pattern and Playing Music  
1024\*768@75Hz  
H:1m Deg:333'

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.00	19.80	0.68	12.83	33.31	40.00	6.69	QP
2	101.78	10.68	1.09	18.48	30.25	43.50	13.25	QP
3	133.79	11.94	1.14	18.37	31.45	43.50	12.05	QP
4	266.68	13.86	1.64	19.16	34.66	46.00	11.34	QP
5	468.44	17.60	2.00	17.21	36.81	46.00	9.19	QP
6	798.24	21.84	2.61	13.75	38.20	46.00	7.80	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

3. The worst emission was detected at 30.00MHz with corrected signal level of 33.31dBuV/m (Limit is 40.00dBuV/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 333°.

4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

## **5. DEVIATION TO TEST SPECIFICATIONS**

[ NONE]