

FCC TEST REPORT

For

19 Inch Digital Photo Frame

MODEL No.: DigiFrame 1960, DF19001-05-XXX (X:A-Z,a-z,0-9)

Trademark: N/A

FCC ID: V37-6226D-19DN

REPORT NO: KA09076006E

ISSUE DATE: July 14, 2009

Prepared for

WIN ACCORD LTD.

12F, 225, Sec 5, 105 Song Shan Dist., Nan Jing East Road, Taipei, Taiwan

Prepared by

DONGGUAN EMTEK CO., LTD

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TEST REPORT DESCRIPTION

Applicant : WIN ACCORD LTD.
Manufacturer : WIN ACCORD LTD.
EUT : 19 Inch Digital Photo Frame
FCC ID No. : V37-6226D-19DN
Test Voltage : 120V/60Hz
File Number : KA09076006E
Date of Test : July 08, 2009 to July 14, 2009

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B July 2008 & FCC / ANSI C63.4-2003

The device described above is tested by Dongguan EMTEK Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Dongguan EMTEK Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Dongguan EMTEK Co., Ltd.

Approved By



Nicol Lee / Q.A. Manager
DONGGUAN EMTEK CO., LTD.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : 19 Inch Digital Photo Frame

Model Number : Basic Model: DigiFrame 1960
Additional Model: DF19001-05-XXX (X:A-Z,a-z,0-9)

(Note: Those models are the same except appearance and model names, all models use the same FCC ID Number.)

Cable : USB Line, 1.5m shielded line, with a core.

FCC ID Number : V37-6226D-19DN

Trade Mark : N/A

Power Supply : 100~240V 50/60Hz

ADAPTER : Manufacturer: MOSO
M/N: XKD-Z4000IC12.0-48W
Input: AC 100~240V 50/60Hz
Output: DC 12V 2.0A
Output line: Unshielded line (with a core)

Applicant : WIN ACCORD LTD.

Address : 12F, 225, Sec 5, 105 Song Shan Dist., Nan Jing East Road, Taipei,
Taiwan

Manufacturer : WIN ACCORD LTD.

Address : 12F, 225, Sec 5, 105 Song Shan Dist., Nan Jing East Road, Taipei,
Taiwan

Date of sample : July 08, 2009

Date of Test : July 08, 2009 to July 14, 2009

1.2. Description of Support Device

PC	:	Manufacturer: Dell Inc. M/N: DCSM S/N: CXBMMZX FCC ID: DoC
LCD Monitor	:	Manufacturer: Dell Inc. M/N: E1909Wf FCC ID: DoC
USB Mouse	:	Manufacturer: Dell Inc. M/N: M-UAK DEL7 P/N: XN966 FCC ID: DoC
USB Keyboard	:	Manufacturer: Dell Inc. M/N: L30U S/N:D1C FCC ID: DoC
Printer	:	Manufacturer: HP M/N:HP LaserJet 1020 S/N: CNCK512065 P/N: Q5911A FCC ID: DoC
USB	:	Kingston 2GB
SD Card	:	Kingston 2GB

1.3 Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2007.07.27
The certificate is valid until 2012.07.26
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01:2005
The Certificate Registration Number is L3150

Accredited by TUV Rheinland Shenzhen 2008.5
The certificate is valid until 2009.12
The Laboratory has been assessed according to the requirements ISO/IEC 17025

Accredited by FCC, Nov. 05, 2008
The Certificate Number is 247565.

Accredited by Industry Canada, May 24, 2008
The Certificate Registration Number. is 46405-4480

Name of Firm : Dongguan EMTEK Co., Ltd.
Site Location : No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China.

1.4 Measurement Uncertainty

Conducted Emission Uncertainty : $U_r = 3.3$

Radiated Emission Uncertainty : $U_c = 2.8$

Disturbance Power Uncertainty : $U_c = 2.6$

2. POWER LINE CONDUCTED MEASUREMENT

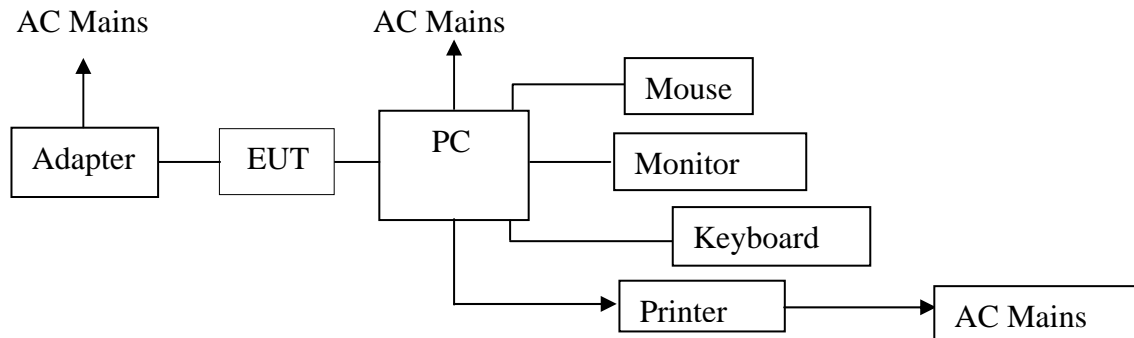
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	ROHDE&SCHWARZ	ESCS30	828985/018	May 29, 2009	1 Year
2	LISN	ROHDE&SCHWARZ	ENV216	100017	May 29, 2009	1Year
3	Conical Housing	EMTEK	N/A	N/A	May 29, 2009	N/A
4	Voltage Probe	SCHWARZBECK	EZ-17	100213	May 29, 2009	1Year
5	50 Ω Coaxial Switch	ANRITSU CORP	MP59B	6100175589	May 29, 2009	1Year

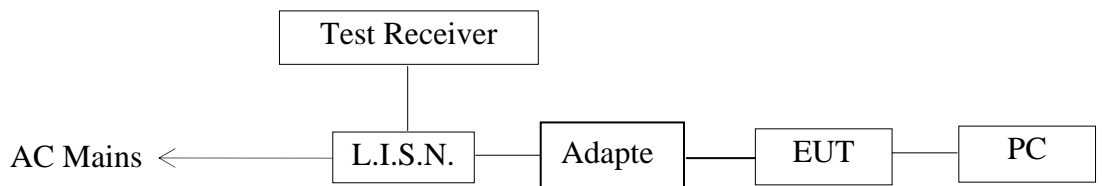
2.2. Block Diagram of Test Setup

2.2.1 Block diagram of connection between the EUT and simulators



(EUT: 19 Inch Digital Photo Frame)

2.2.2 Block diagram of test setup



(EUT: 19 Inch Digital Photo Frame)

2.3. Power Line Conducted Emission Measurement Limits

Conducted Emission Limits is as following.

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.4. Configuration of EUT on Measurement

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

EUT : 19 Inch Digital Photo Frame
Model Number : DigiFrame 1960
Manufacturer : WIN ACCORD LTD.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown as Section 2.2.

2.5.2. Turn on the power of all equipment.

2.5.3. Let the EUT work in test model (Memorying, CF Card Playing, SD Card Playing, USB Playing, Connect to PC) and measure it.

2.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R&S ESCS30) is set at 9KHz.
The frequency range from 150KHz to 30MHz is checked.

2.7. Power Line Conducted Emission Measurement Results

PASS

The frequency range from 150KHz to 30 MHz is investigated.

The scanning waveforms refer to the following pages.

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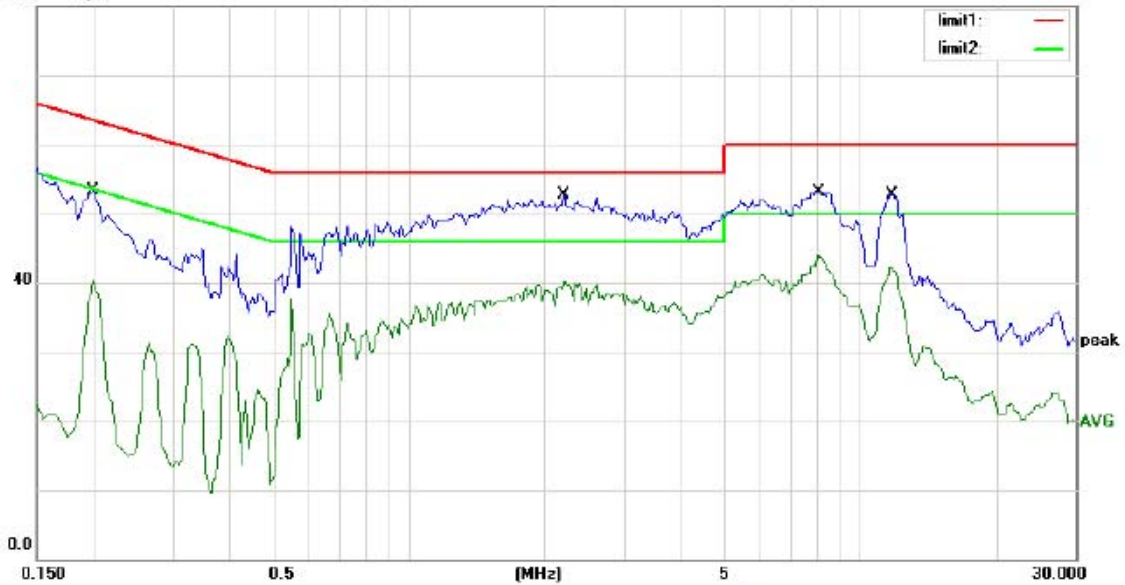
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#116

Date: 09/07/10/

Time: 11/15/49



Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: 19 INCH DIGITAL PHOTO FRAME
 M/N: DigiFame 1960
 Mode: CF CARD PLAYING
 Note:

Phase: **L1** Temperature: 25
 Power: AC 120V/60Hz Humidity: 50 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBpW	dB	dBpW	dBpW	dB		
1		0.2000	48.00	0.00	48.00	63.61	-15.61	QP	
2		0.2000	39.70	0.00	39.70	53.61	-13.91	AVG	
3		2.2100	47.90	0.00	47.90	56.00	-8.10	QP	
4	*	2.2100	39.90	0.00	39.90	46.00	-6.10	AVG	
5		8.1916	48.90	0.00	48.90	60.00	-11.10	QP	
6		8.1916	42.50	0.00	42.50	50.00	-7.50	AVG	
7		11.7750	48.10	0.00	48.10	60.00	-11.90	QP	
8		11.7750	41.80	0.00	41.80	50.00	-8.20	AVG	

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

File :WIN ACCORD\Data :#116

Page: 1



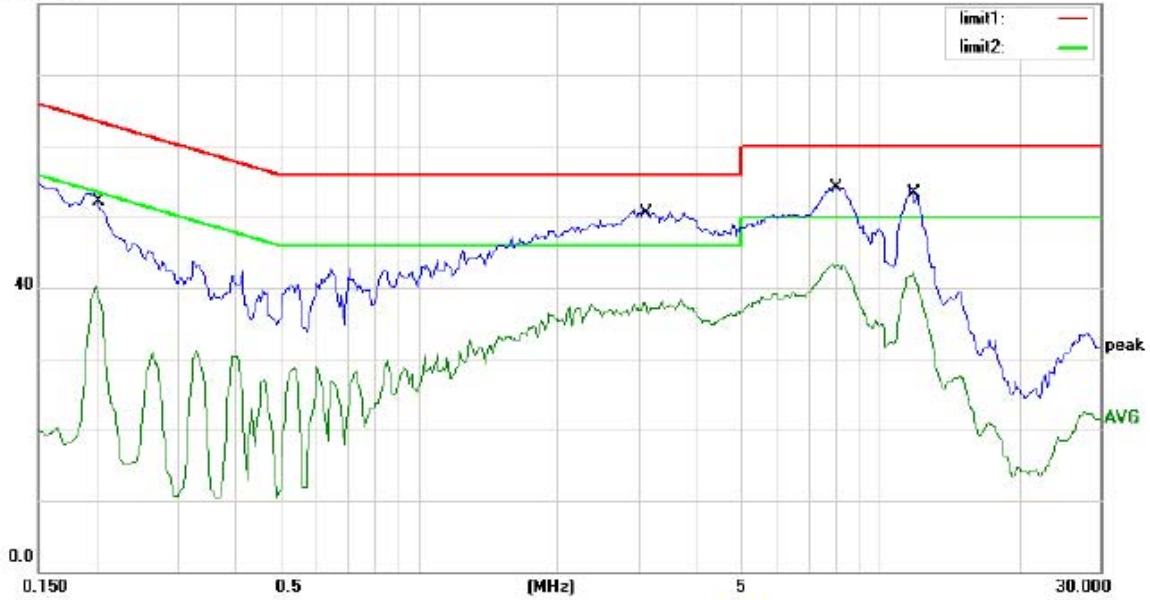
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#115

Date: 09/07/10/

Time: 11/09/36



Site site #1

Phase: N

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 19 INCH DIGITAL PHOTO FRAME

M/N: DigiFame 1960

Mode: CF CARD PLAYING

Note:

No. Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measurement dBpW	Limit dBpW	Over dB	Detector	Comment
1	0.2030	47.70	0.00	47.70	63.49	-15.79	QP	
2	0.2030	39.30	0.00	39.30	53.49	-14.19	AVG	
3	3.1500	46.40	0.00	46.40	56.00	-9.60	QP	
4	3.1500	37.10	0.00	37.10	46.00	-8.90	AVG	
5	7.9600	50.00	0.00	50.00	60.00	-10.00	QP	
6 *	7.9600	43.10	0.00	43.10	50.00	-6.90	AVG	
7	11.9328	47.60	0.00	47.60	60.00	-12.40	QP	
8	11.9328	41.40	0.00	41.40	50.00	-8.60	AVG	

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

File :WIN ACCORD\Data :#115

Page: 1



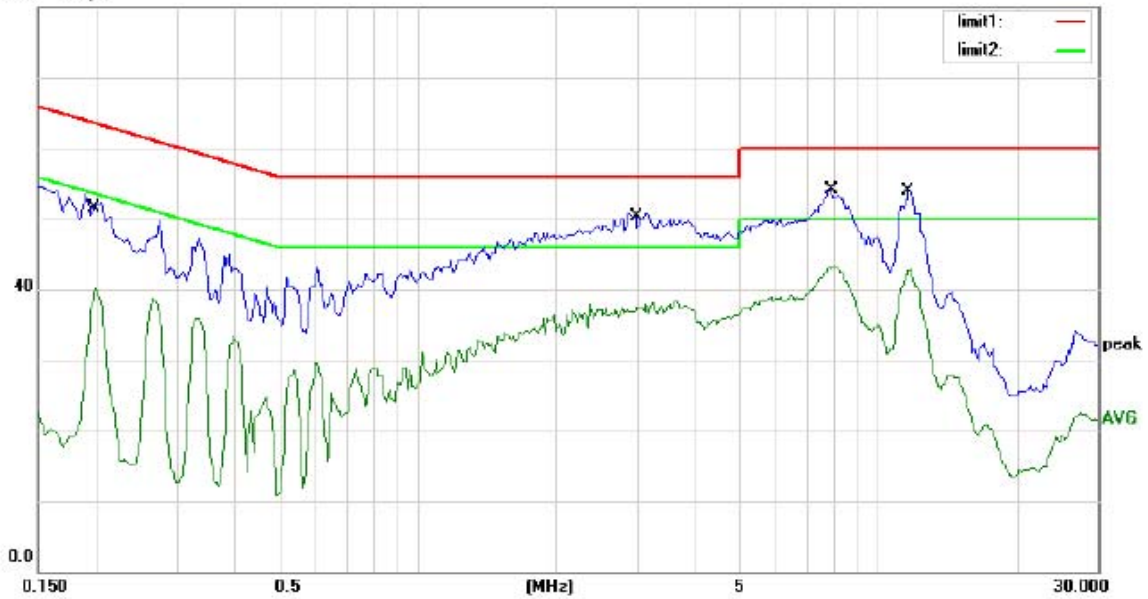
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#117

Date: 09/07/10/

Time: 11/24/39



Site site #1

Phase: **L1**

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 19 INCH DIGITAL PHOTO FRAME

M/N: DigiFame 1960

Mode: SD CARD PLAYING

Note:

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Comment
1		0.1965	47.90	0.00	47.90	63.76	-15.86	QP	
2		0.1965	39.30	0.00	39.30	53.76	-14.46	AVG	
3		3.0094	46.10	0.00	46.10	56.00	-9.90	QP	
4		3.0094	36.90	0.00	36.90	46.00	-9.10	AVG	
5		7.8516	49.40	0.00	49.40	60.00	-10.60	QP	
6	*	7.8516	42.60	0.00	42.60	50.00	-7.40	AVG	
7		11.6750	48.50	0.00	48.50	60.00	-11.50	QP	
8		11.6750	42.60	0.00	42.60	50.00	-7.40	AVG	

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

File :WIN ACCORD\Data :#117

Page: 1



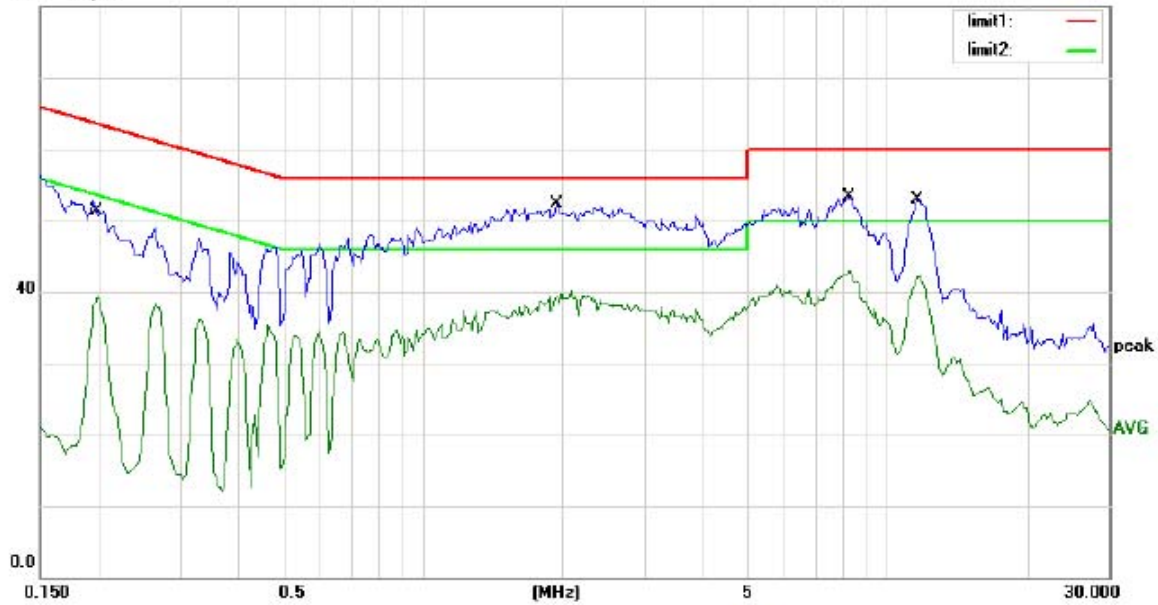
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#118

Date: 09/07/10/

Time: 11/29/39



Site site #1 Phase: **N** Temperature: 25
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 50 %
 EUT: 19 INCH DIGITAL PHOTO FRAME
 M/N: DigiFame 1960
 Mode: SD CARD PLAYING
 Note:

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Comment
1		0.2007	47.80	0.00	47.80	63.58	-15.78	QP	
2		0.2007	39.60	0.00	39.60	53.58	-13.98	AVG	
3		1.9400	47.90	0.00	47.90	56.00	-8.10	QP	
4	*	1.9400	39.40	0.00	39.40	46.00	-6.60	AVG	
5		8.1916	48.40	0.00	48.40	60.00	-11.60	QP	
6		8.1916	41.10	0.00	41.10	50.00	-8.90	AVG	
7		11.6208	48.00	0.00	48.00	60.00	-12.00	QP	
8		11.6208	41.90	0.00	41.90	50.00	-8.10	AVG	

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



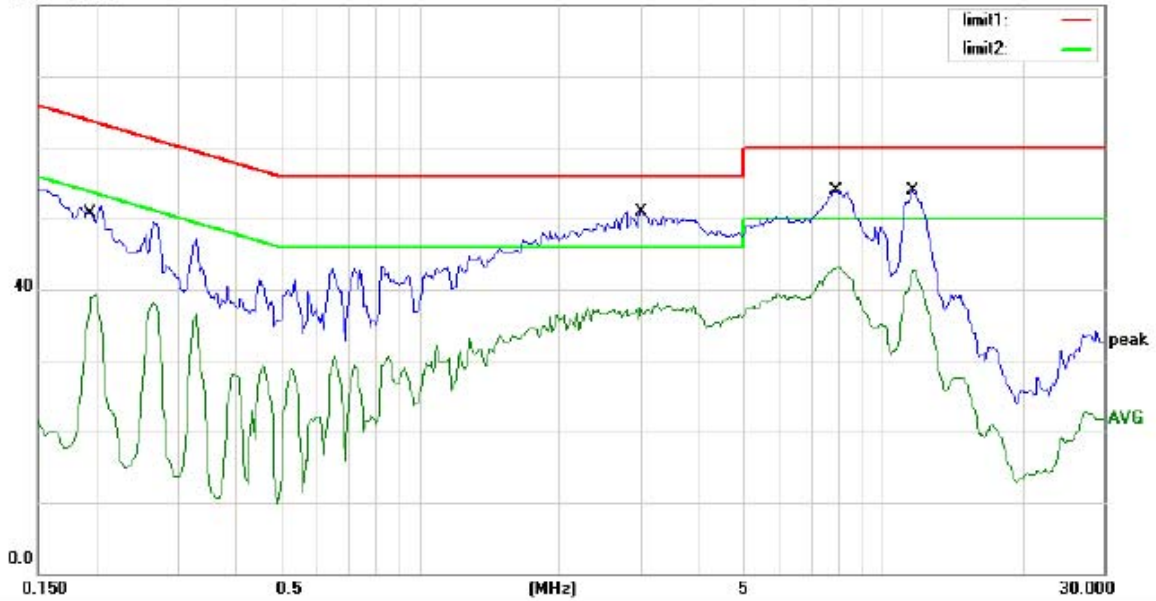
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#120

Date: 09/07/10/

Time: 11/47/06



Site site #1

Phase: L1

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 19 INCH DIGITAL PHOTO FRAME

M/N: DigiFame 1960

Mode: USB PLAYING

Note:

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Comment
1		0.1950	48.00	0.00	48.00	63.82	-15.82	QP	
2		0.1950	38.30	0.00	38.30	53.82	-15.52	AVG	
3		3.0400	45.00	0.00	45.00	56.00	-11.00	QP	
4		3.0400	36.00	0.00	36.00	46.00	-10.00	AVG	
5		7.8300	49.30	0.00	49.30	60.00	-10.70	QP	
6		7.8300	42.50	0.00	42.50	50.00	-7.50	AVG	
7		11.7250	48.80	0.00	48.80	60.00	-11.20	QP	
8	*	11.7250	42.60	0.00	42.60	50.00	-7.40	AVG	

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

File :WIN ACCORD\Data :#120

Page: 1



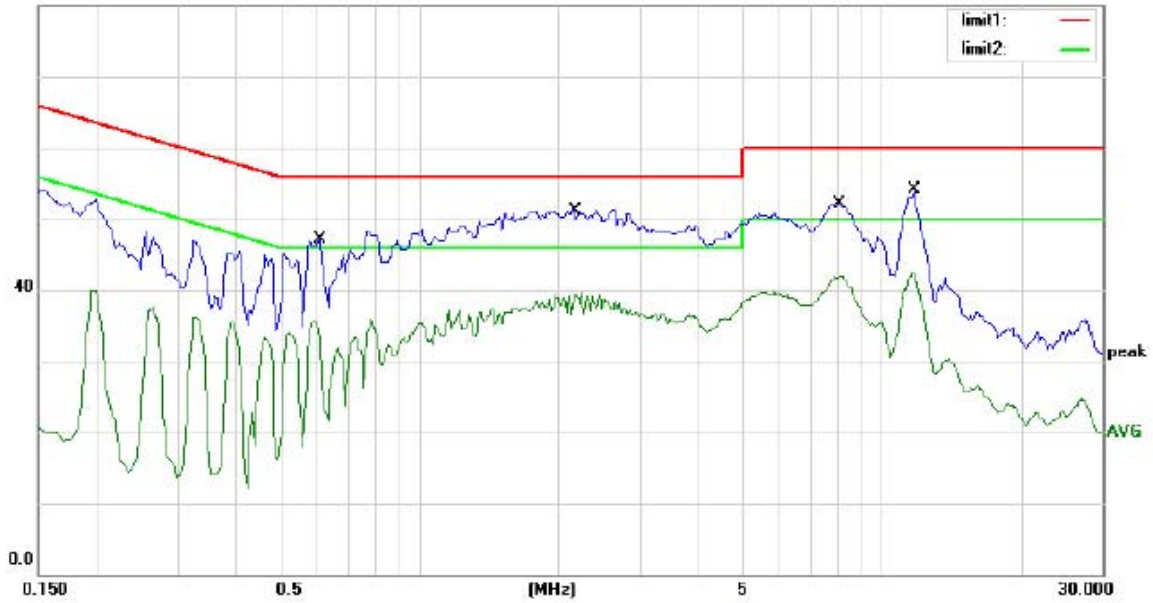
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#119

Date: 09/07/10/

Time: 11/40/40



Site site #1 Phase: **N** Temperature: 25
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 50 %
 EUT: 19 INCH DIGITAL PHOTO FRAME
 M/N: DigiFame 1960
 Mode: USB PLAYING
 Note:

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Comment
1		0.6000	41.70	0.00	41.70	56.00	-14.30	QP	
2		0.6000	33.20	0.00	33.20	46.00	-12.80	AVG	
3		2.1897	47.50	0.00	47.50	56.00	-8.50	QP	
4	*	2.1897	39.30	0.00	39.30	46.00	-6.70	AVG	
5		8.1483	47.30	0.00	47.30	60.00	-12.70	QP	
6		8.1483	41.00	0.00	41.00	50.00	-9.00	AVG	
7		11.7750	47.80	0.00	47.80	60.00	-12.20	QP	
8		11.7750	42.10	0.00	42.10	50.00	-7.90	AVG	

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



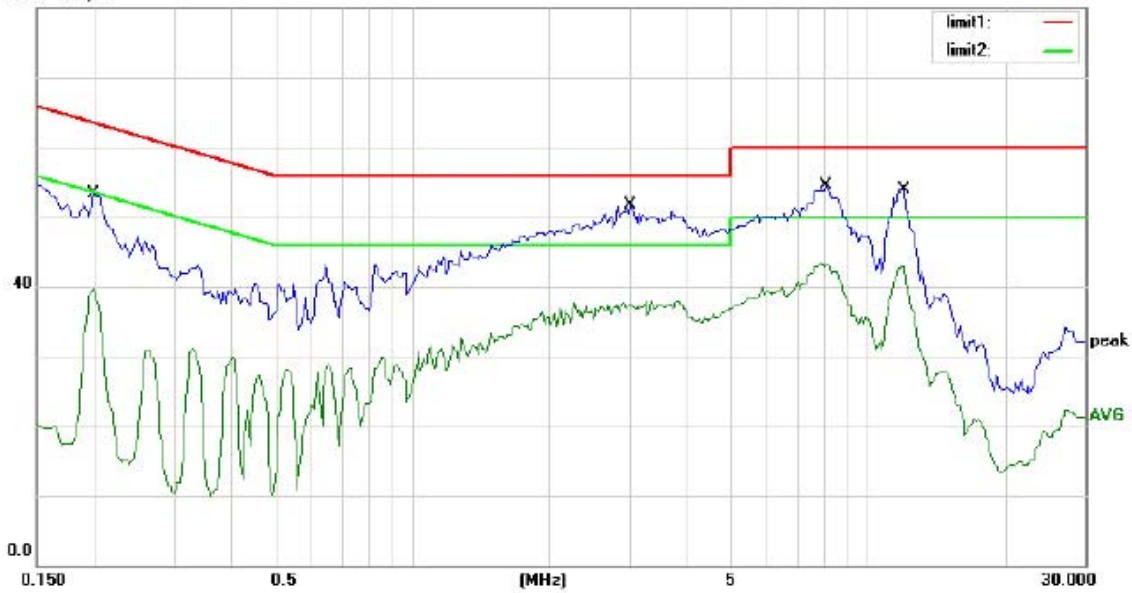
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#121

Date: 09/07/10/

Time: 11/52/14



Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: 19 INCH DIGITAL PHOTO FRAME
 M/N: DigiFame 1960
 Mode: Memorying
 Note:

Phase: **L1** Temperature: 25
 Power: AC 120V/60Hz Humidity: 50 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBpW	dB	dBpW	dBpW	dB		
1		0.2000	47.60	0.00	47.60	63.61	-16.01	QP	
2		0.2000	39.30	0.00	39.30	53.61	-14.31	AVG	
3		2.9935	45.50	0.00	45.50	56.00	-10.50	QP	
4		2.9935	36.10	0.00	36.10	46.00	-9.90	AVG	
5		7.9774	49.40	0.00	49.40	60.00	-10.60	QP	
6	*	7.9774	42.70	0.00	42.70	50.00	-7.30	AVG	
7		11.9328	48.00	0.00	48.00	60.00	-12.00	QP	
8		11.9328	42.00	0.00	42.00	50.00	-8.00	AVG	

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

File :WIN ACCORD\Data :#121

Page: 1



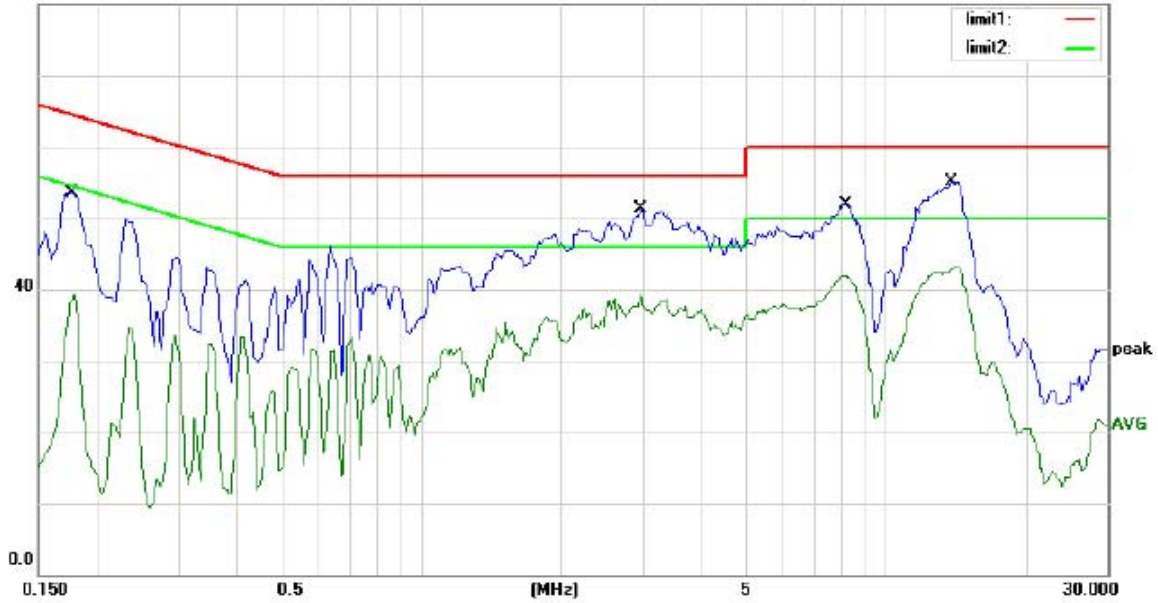
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#127

Date: 09/07/10/

Time: 14/21/40



Site site #1 Phase: **N** Temperature: 25
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 50 %
 EUT: 19 INCH DIGITAL PHOTO FRAME
 M/N: DigiFame 1960
 Mode: Memorying
 Note:

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Comment
1		0.1785	48.54	0.00	48.54	64.56	-16.02	QP	
2		0.1785	38.49	0.00	38.49	54.56	-16.07	AVG	
3	*	2.9700	50.37	0.00	50.37	56.00	-5.63	QP	
4		2.9700	39.21	0.00	39.21	46.00	-6.79	AVG	
5		8.1483	50.95	0.00	50.95	60.00	-9.05	QP	
6		8.1483	41.90	0.00	41.90	50.00	-8.10	AVG	
7		13.9146	52.15	0.00	52.15	60.00	-7.85	QP	
8		13.9146	42.92	0.00	42.92	50.00	-7.08	AVG	

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

File :WIN ACCORD\Data :#127

Page: 1



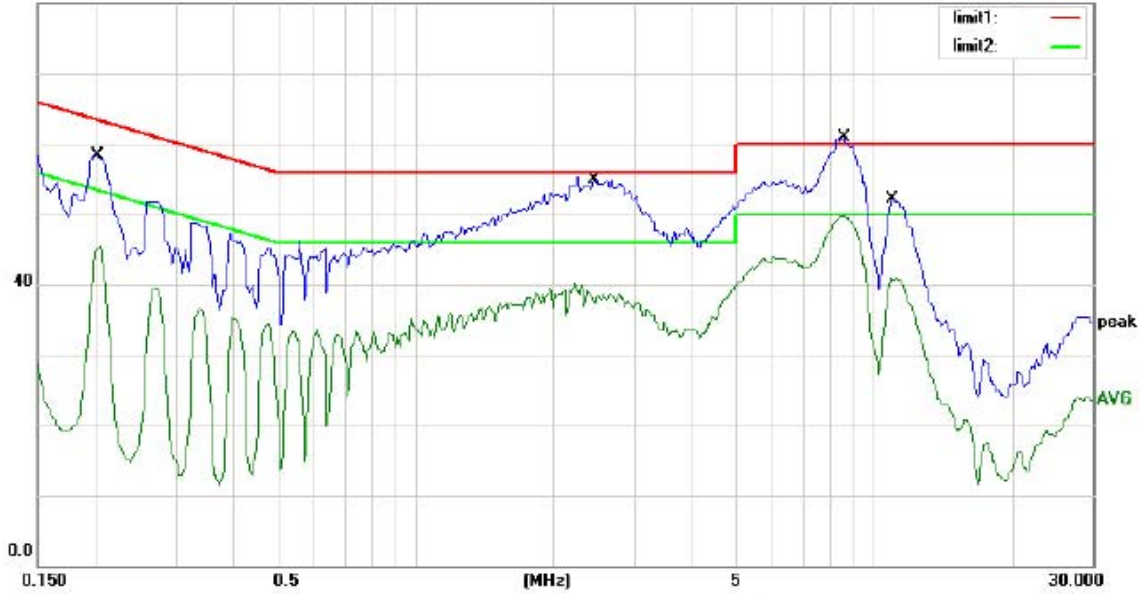
Conducted Emission Measurement

File :WIN ACCORD
 80.0 dBpW

Data :#122

Date: 09/07/10/

Time: 13/38/46



Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: 19 INCH DIGITAL PHOTO FRAME
 M/N: DigiFame 1960
 Mode: CONNECT TO PC
 Note:

Phase: **L1** Temperature: 25
 Power: AC 120V/60Hz Humidity: 50 %

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Comment
1		0.2050	54.10	0.00	54.10	63.41	-9.31	QP	
2		0.2050	43.20	0.00	43.20	53.41	-10.21	AVG	
3		2.4346	48.20	0.00	48.20	56.00	-7.80	QP	
4		2.4346	38.70	0.00	38.70	46.00	-7.30	AVG	
5		8.5011	55.90	0.00	55.90	60.00	-4.10	QP	
6	*	8.5011	49.20	0.00	49.20	50.00	-0.80	AVG	
7		11.0211	46.90	0.00	46.90	60.00	-13.10	QP	
8		11.0211	40.40	0.00	40.40	50.00	-9.60	AVG	

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

File :WIN ACCORD\Data :#122

Page: 1

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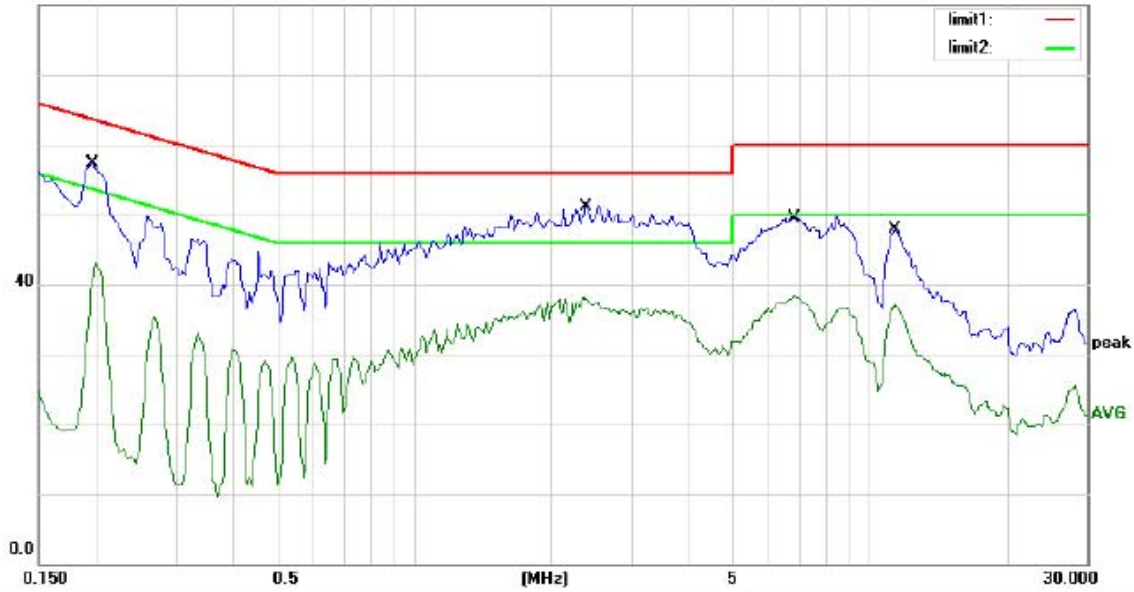
Conducted Emission Measurement

File: WIN ACCORD
 80.0 dBpW

Data: #123

Date: 09/07/10/

Time: 13/44/42



Site site #1 Phase: **N** Temperature: 25
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 50 %
 EUT: 19 INCH DIGITAL PHOTO FRAME
 M/N: DigiFame 1960
 Mode: CONNECT TO PC
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBpW	dB	dBpW	dBpW	dB		
1		0.1986	52.70	0.00	52.70	63.67	-10.97	QP	
2		0.1986	41.50	0.00	41.50	53.67	-12.17	AVG	
3		2.3500	46.10	0.00	46.10	56.00	-9.90	QP	
4	*	2.3500	37.70	0.00	37.70	46.00	-8.30	AVG	
5		6.9141	44.70	0.00	44.70	60.00	-15.30	QP	
6		6.9141	37.30	0.00	37.30	50.00	-12.70	AVG	
7		11.4500	43.80	0.00	43.80	60.00	-16.20	QP	
8		11.4500	37.20	0.00	37.20	50.00	-12.80	AVG	

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

File: WIN ACCORD\Data: #123

Page: 1

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

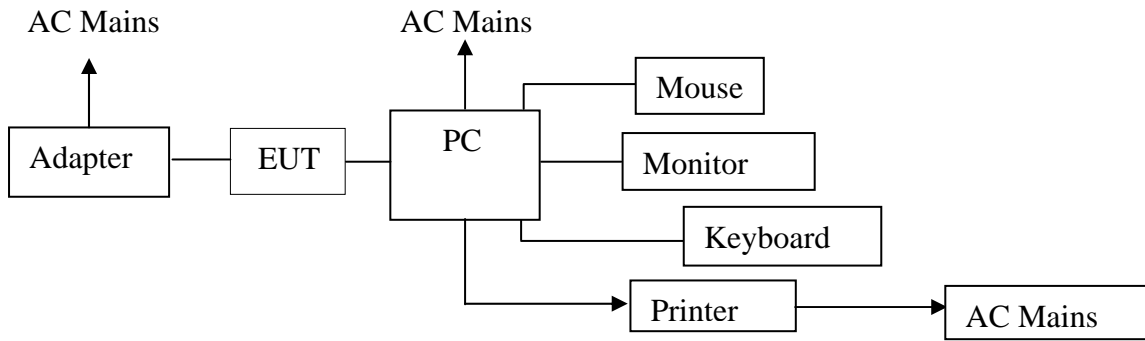
The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Rohde & Schwarz	ESCI	100137	May 20, 2009	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100137	May 20, 2009	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	143	May 20, 2009	1 Year
4.	Power Amplifier	HP	8447F	OPT H64	May 20, 2009	1 Year
5.	Positioning Controller	C&C LAB	CC-C-IF	N/A	May 20, 2009	1 Year
6.	Color Monitor	SUNSPO	SP-140A	N/A	May 20, 2009	1 Year
7.	Single Line Filter	JIANLI	XL-3	N/A	May 20, 2009	1 Year
8.	Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	May 20, 2009	1 Year
9.	3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	May 20, 2009	1 Year
10.	DC Power Filter	JIANLI	DL-2X50B	N/A	May 20, 2009	1 Year
11.	Cable	Schwarzbeck	PLF-100	N/A	May 20, 2009	1 Year
12.	Cable	Rosenberger	CIL02	A0783566	May 20, 2009	1 Year
13.	Cable	Rosenberger	AK9513	AC RX1	May 20, 2009	1 Year

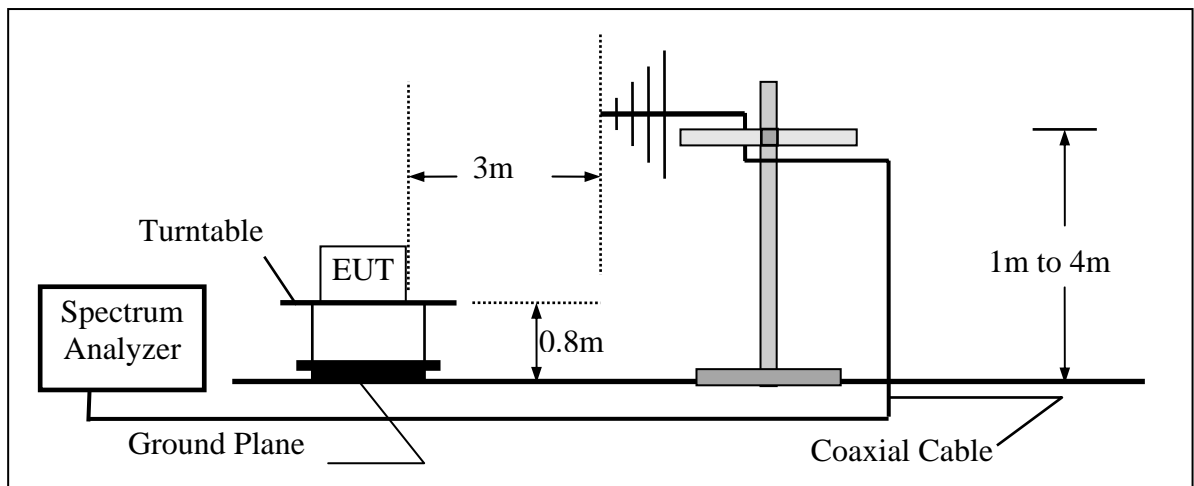
3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: 19 Inch Digital Photo Frame)

3.2.2. Anechoic Chamber Test Setup Diagram



(EUT: 19 Inch Digital Photo Frame)

3.3. Radiated Emission Limit

Radiated Emission Limits is as following.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT
		dB(μV)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
>1000	3	74.0 dB(μV)/m (peak) 54.0 dB(μV)/m (Average)

- Remark :
- (1) Emission level (dB)μV = 20 log Emission level μV/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.

3.4.EUT Configuration on Measurement

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

19 Inch Digital Photo Frame (EUT)

Model Number : DigiFrame 1960

3.5.Operating Condition of EUT

3.5.1 Setup the EUT as shown in Section 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Let the EUT work in test mode (Memorying, CF Card Playing, SD Card Playing, USB Playing, Connect to PC) and measure it.

3.6.Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2003 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCI) set at 120KHz in 30MHz to 1000MHz, set at 1MHz above 1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

3.7.Radiated Emission Noise Measurement Results

PASS.

The scanning waveforms refer to the following pages:



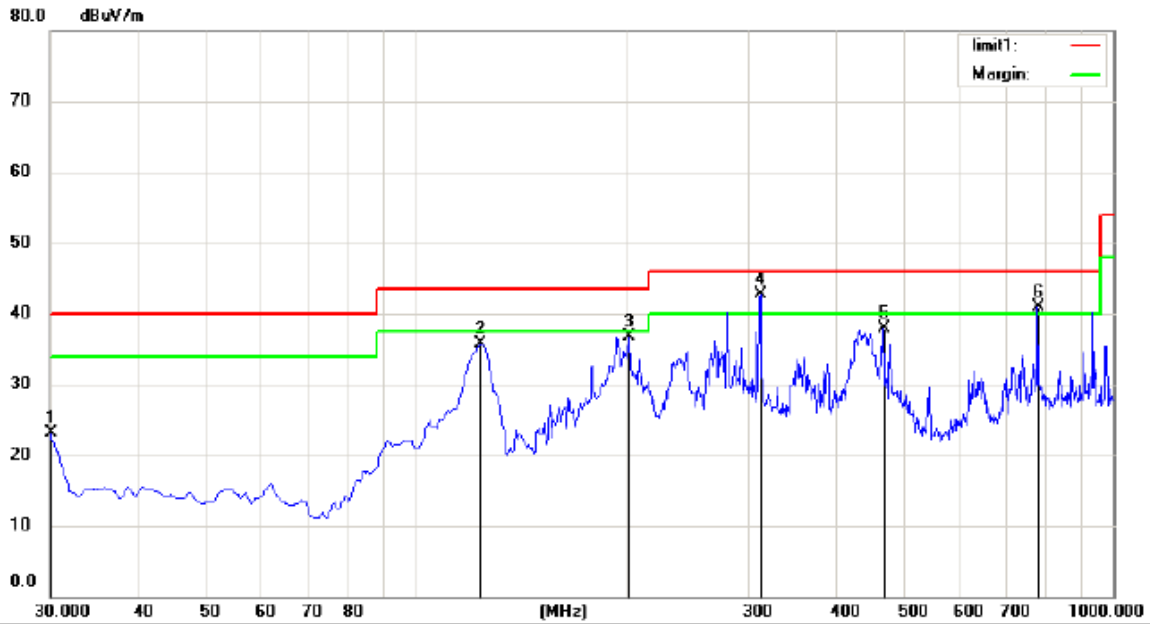
Radiated Emission Measurement

File : DigiFrame 1960

Data : #2

Date : 2009-7-10

Time : 15:27:58



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 19 Inch Digital Photo Frame

M/N: DigiFrame 1960

Mode: CONNECT TO PC

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.0000	40.28	-17.15	23.13	40.00	-16.87			QP
2		124.0900	55.18	-19.53	35.65	43.50	-7.85			QP
3		202.6600	50.53	-13.84	36.69	43.50	-6.81			QP
4	*	312.2700	53.29	-10.65	42.64	46.00	-3.36			QP
5		467.4700	45.90	-7.93	37.97	46.00	-8.03			QP
6	!	780.7800	44.29	-3.39	40.90	46.00	-5.10			QP

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

Operator:

File :DigiFrame 1960\Data :#2

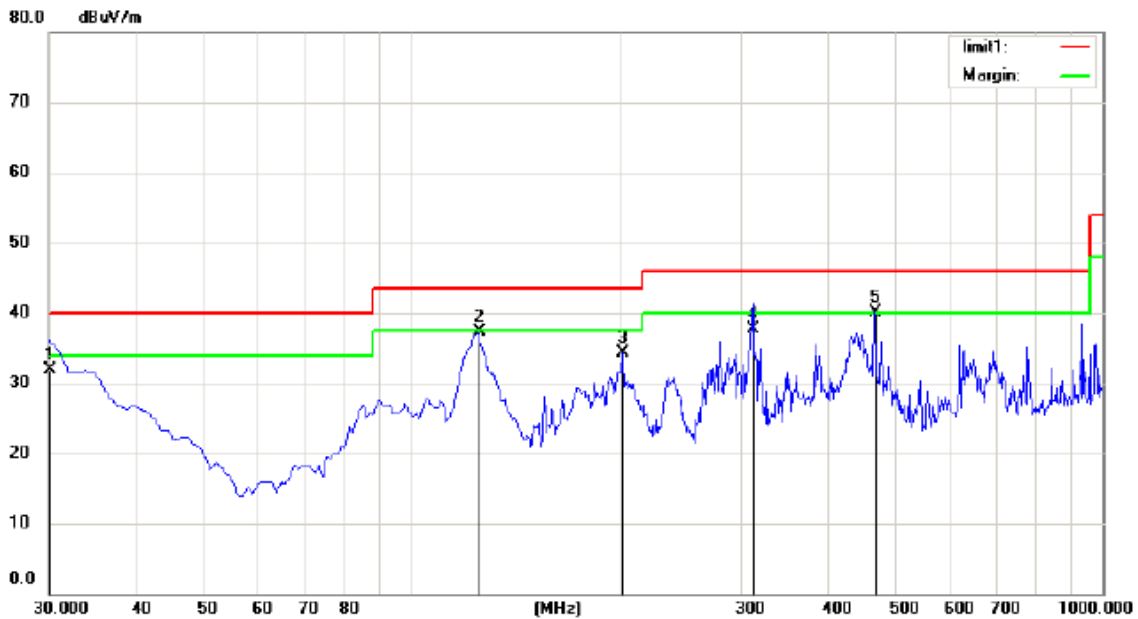
Page: 1

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Radiated Emission Measurement

File :DigiFrame 1960 Data :#1 Date: 2009-7-10 Time: 15:22:35



Site Chamber #1 Polarization: **Vertical** Temperature: 26
 Limit: (RE)FCC PART 15 class B 3m Power: AC 120V/60Hz Humidity: 55 %
 EUT: 19 Inch Digital Photo Frame
 M/N: DigiFrame 1960
 Mode:CONNECT TO PC
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		30.0000	49.15	-17.15	32.00	40.00	-8.00	QP		
2		125.0600	57.04	-19.66	37.38	43.50	-6.12	QP		
3		202.6600	48.05	-13.84	34.21	43.50	-9.29	QP		
4		312.2700	48.45	-10.65	37.80	46.00	-8.20	QP		
5	*	468.4400	48.10	-7.90	40.20	46.00	-5.80	QP		

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

Operator:



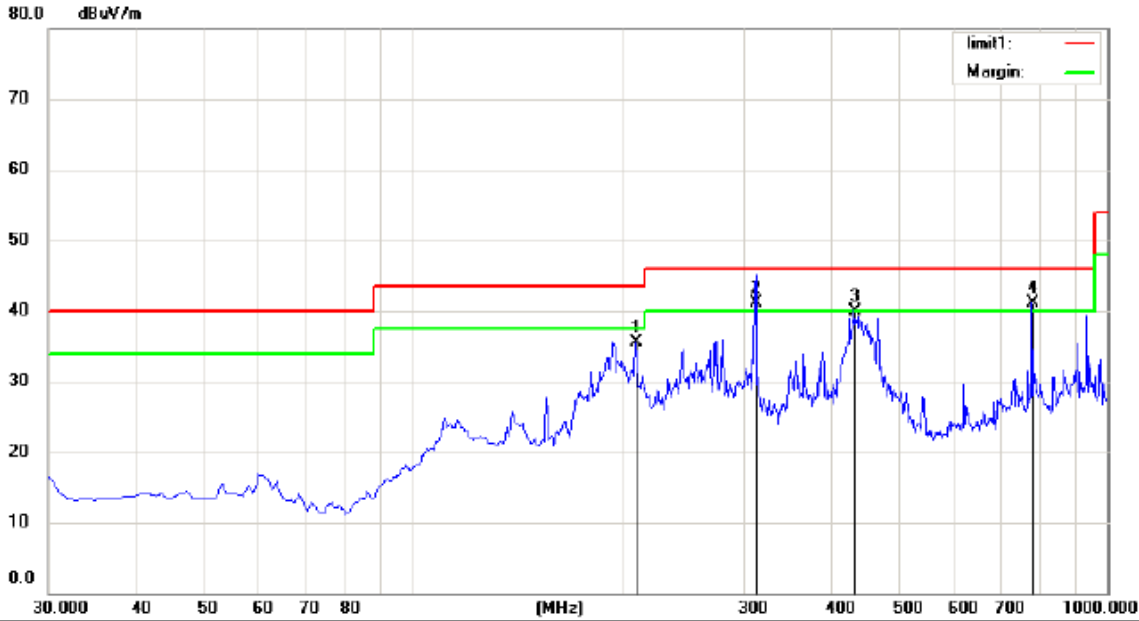
Radiated Emission Measurement

File :DigiFrame 1960

Data :#3

Date: 2009-7-10

Time: 15:33:05



Site Chamber #1 Polarization: **Horizontal** Temperature: 26
 Limit: (RE)FCC PART 15 class B 3m Power: AC 120V/60Hz Humidity: 55 %
 EUT: 19 Inch Digital Photo Frame
 M/N: DigiFrame 1960
 Mode:Memorying
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		209.4500	49.28	-13.72	35.56	43.50	-7.94			QP
2	*	312.2700	51.84	-10.65	41.19	46.00	-4.81			QP
3		433.5200	48.30	-8.30	40.00	46.00	-6.00			QP
4	!	779.8100	44.50	-3.39	41.11	46.00	-4.89			QP

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

Operator:



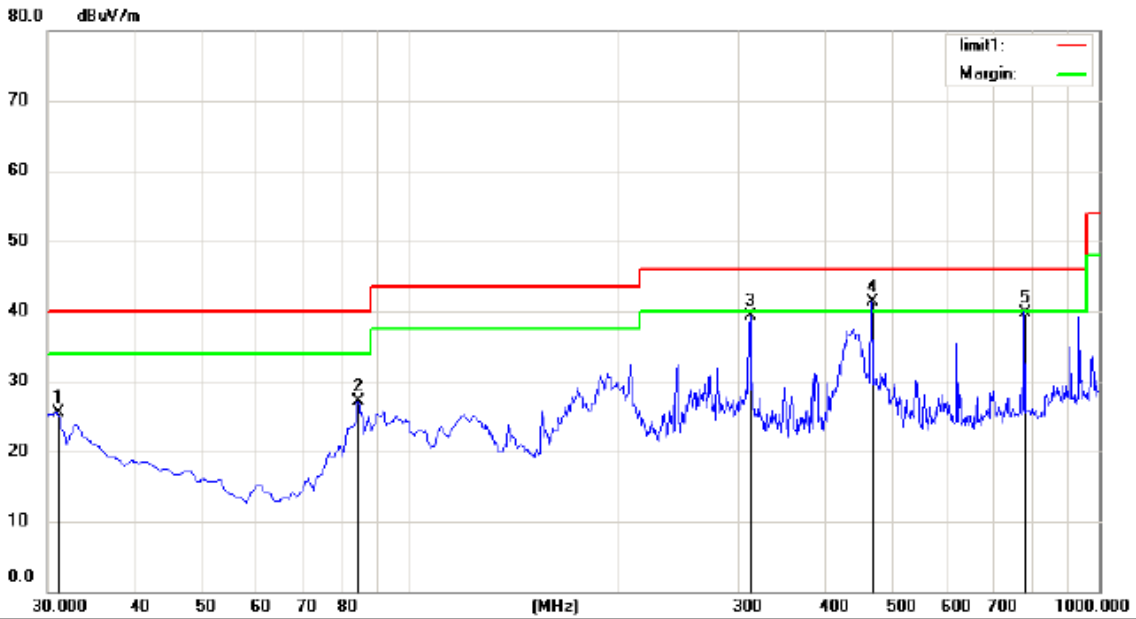
Radiated Emission Measurement

File :DigiFrame 1960

Data :#4

Date: 2009-7-10

Time: 15:36:55



Site Chamber #1 Polarization: **Vertical** Temperature: 26
 Limit: (RE)FCC PART 15 class B 3m Power: AC 120V/60Hz Humidity: 55 %
 EUT: 19 Inch Digital Photo Frame
 M/N: DigiFrame 1960
 Mode:Memorying
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.9700	42.55	-17.05	25.50	40.00	-14.50	QP		
2		84.3200	46.57	-19.47	27.10	40.00	-12.90	QP		
3		312.2700	49.89	-10.65	39.24	46.00	-6.76	QP		
4	*	467.4700	49.22	-7.93	41.29	46.00	-4.71	QP		
5		779.8100	43.19	-3.39	39.80	46.00	-6.20	QP		

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

Operator:

File :DigiFrame 1960\Data :#4

Page: 1



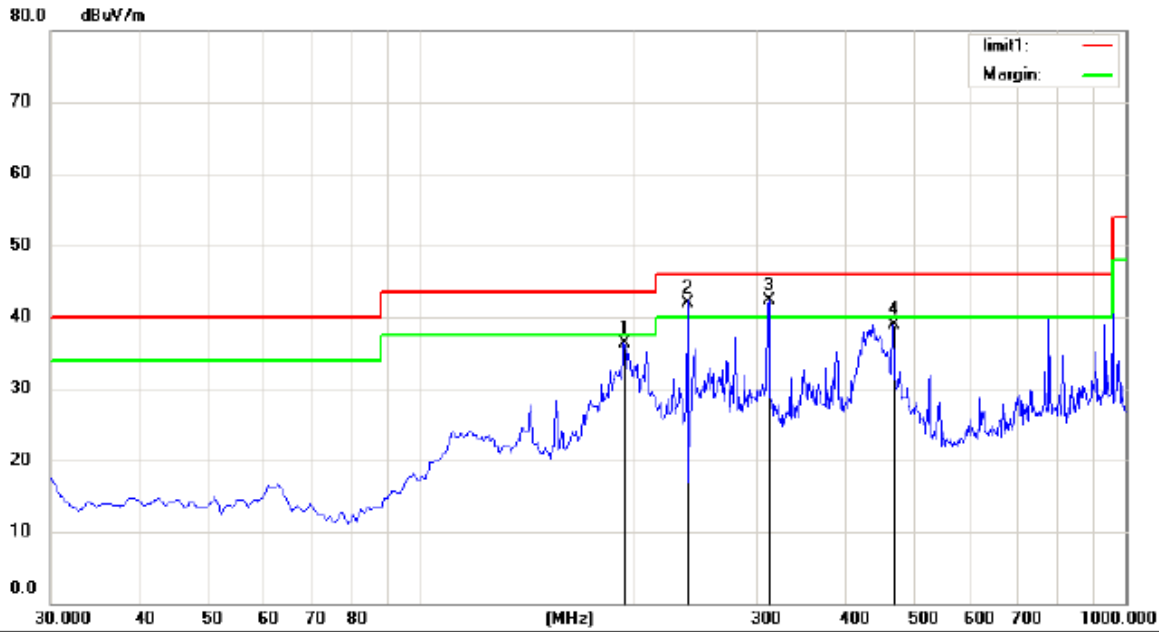
Radiated Emission Measurement

File :DigiFrame 1960

Data :#6

Date: 2009-7-10

Time: 15:42:42



Site Chamber #1 Polarization: **Horizontal** Temperature: 26
 Limit: (RE)FCC PART 15 class B 3m Power: AC 120V/60Hz Humidity: 55 %
 EUT: 19 Inch Digital Photo Frame
 M/N: DigiFrame 1960
 Mode:USB PLAYING
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		194.9000	50.61	-14.35	36.26	43.50	-7.24	QP		
2	!	239.5200	53.94	-12.08	41.86	46.00	-4.14	QP		
3	*	312.2700	52.95	-10.65	42.30	46.00	-3.70	QP		
4		467.4700	46.84	-7.93	38.91	46.00	-7.09	QP		

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

Operator:

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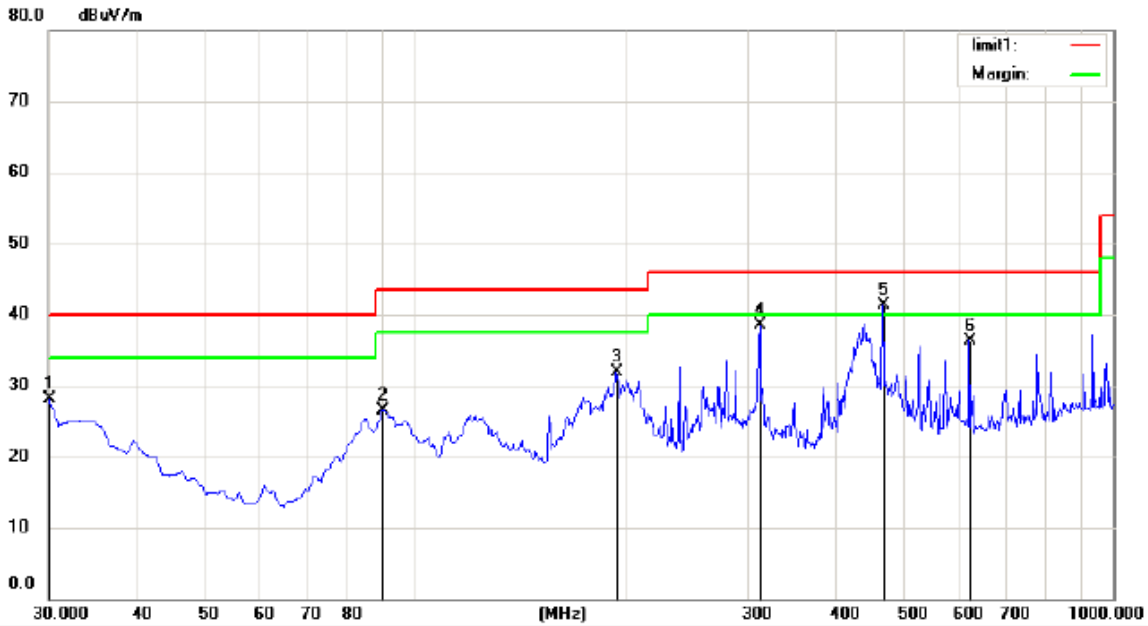
Radiated Emission Measurement

File :DigiFrame 1960

Data :#5

Date: 2009-7-10

Time: 15:41:00



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 19 Inch Digital Photo Frame

M/N: DigiFrame 1960

Mode:USB PLAYING

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
1		30.0000	45.28	-17.15	28.13	40.00	-11.87			QP	
2		90.2204	44.09	-17.57	26.52	43.50	-16.98			QP	
3		194.9000	46.17	-14.35	31.82	43.50	-11.68			QP	
4		312.2700	49.22	-10.65	38.57	46.00	-7.43			QP	
5	*	467.4700	49.32	-7.93	41.39	46.00	-4.61			QP	
6		624.6100	41.56	-5.21	36.35	46.00	-9.65			QP	

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

Operator:

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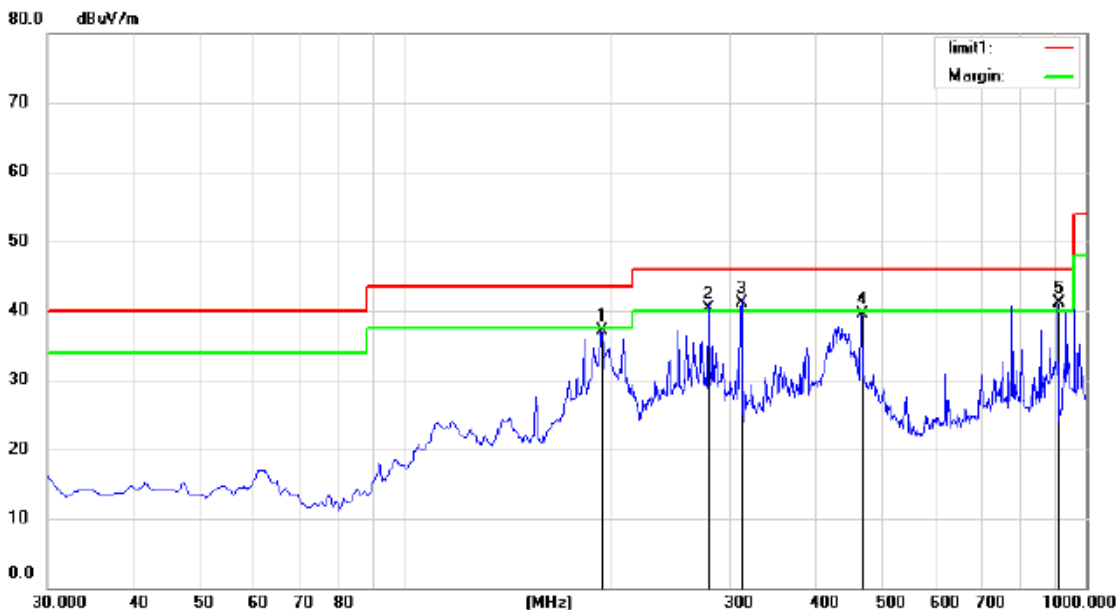
Radiated Emission Measurement

File : DigiFrame 1960

Data : #7

Date : 2009-7-10

Time : 15:47:08



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 19 Inch Digital Photo Frame

M/N: DigiFrame 1960

Mode: SD CARD PLAYING

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		194.9000	51.36	-14.35	37.01	43.50	-6.49	QP		
2	!	279.2900	51.62	-11.28	40.34	46.00	-5.66	QP		
3	!	312.2700	51.67	-10.65	41.02	46.00	-4.98	QP		
4		467.4700	47.52	-7.93	39.59	46.00	-6.41	QP		
5	*	910.7600	43.08	-1.96	41.12	46.00	-4.88	QP		

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

Operator:

File : DigiFrame 1960\Data :#7

Page: 1

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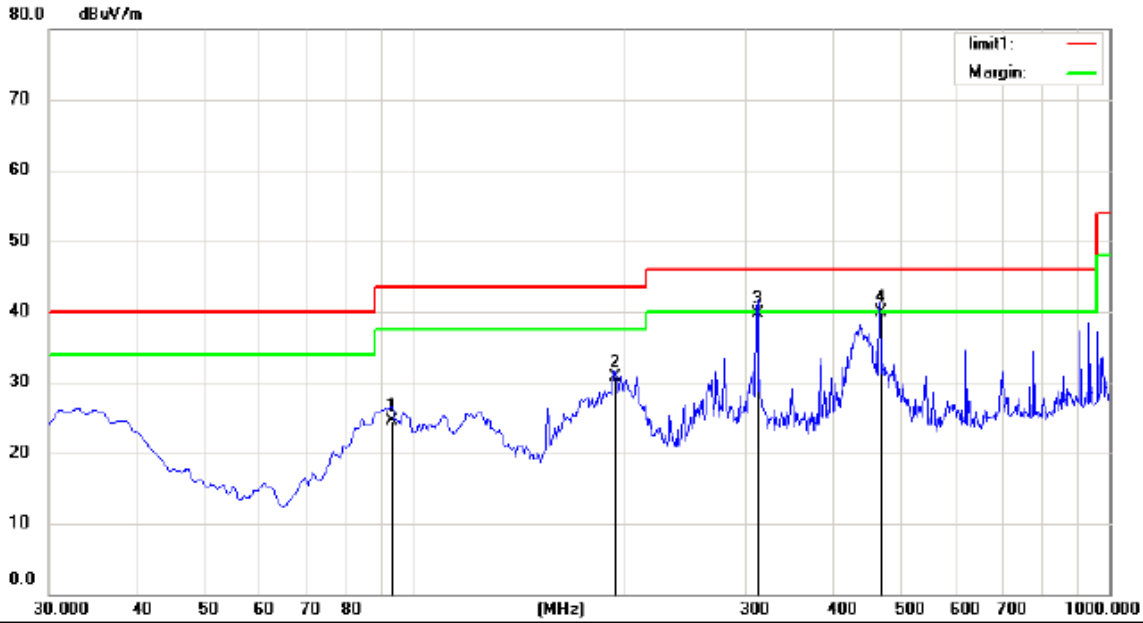
Radiated Emission Measurement

File :DigiFrame 1960

Data :#8

Date: 2009-7-10

Time: 15:49:02



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 19 Inch Digital Photo Frame

M/N: DigiFrame 1960

Mode:SD CARD PLAYING

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		93.0500	41.49	-17.02	24.47	43.50	-19.03	QP		
2		194.9000	45.11	-14.35	30.76	43.50	-12.74	QP		
3		312.2700	50.28	-10.65	39.63	46.00	-6.37	QP		
4	*	467.4700	47.81	-7.93	39.88	46.00	-6.12	QP		

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

Operator:

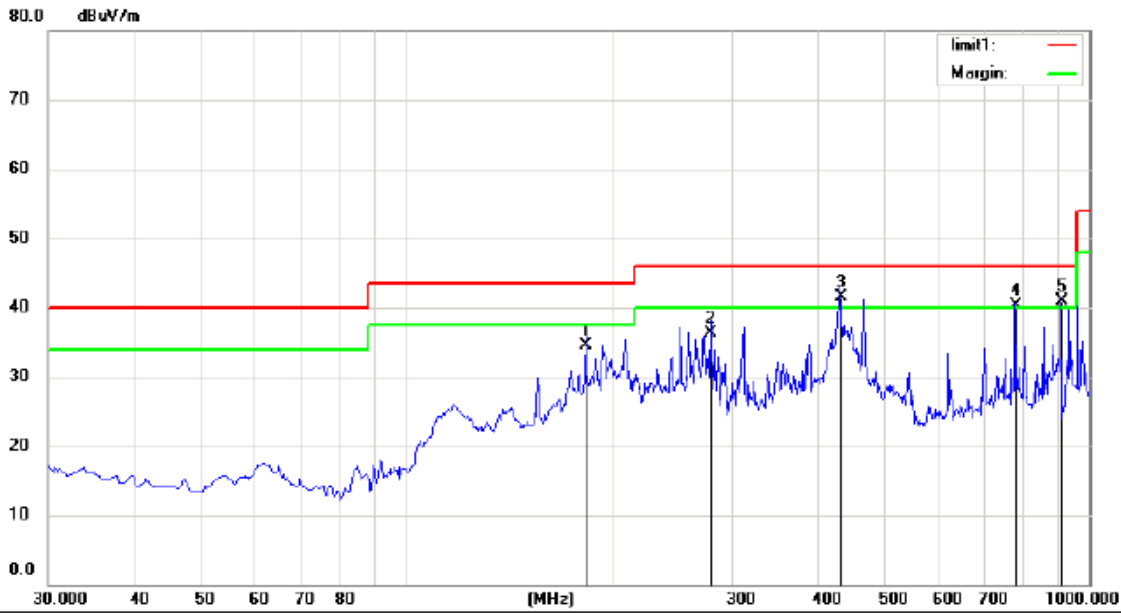
File :DigiFrame 1960\Data :#8

Page: 1



Radiated Emission Measurement

File :DigiFrame 1960 Data :#9 Date: 2009-7-10 Time: 16:03:11



Site Chamber #1 Polarization: **Horizontal** Temperature: 26
 Limit: (RE)FCC PART 15 class B 3m Power: AC 120V/60Hz Humidity: 55 %
 EUT: 19 Inch Digital Photo Frame
 M/N: DigiFrame 1960
 Mode: CF CARD PLAYING
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		183.2600	50.39	-15.98	34.41	43.50	-9.09	QP			
2		279.2900	47.68	-11.28	36.40	46.00	-9.60	QP			
3	*	433.5200	49.83	-8.30	41.53	46.00	-4.47	QP			
4	!	779.8100	43.74	-3.39	40.35	46.00	-5.65	QP			
5	!	910.7600	42.91	-1.96	40.95	46.00	-5.05	QP			

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

Operator:

File :DigiFrame 1960\Data :#9

Page: 1



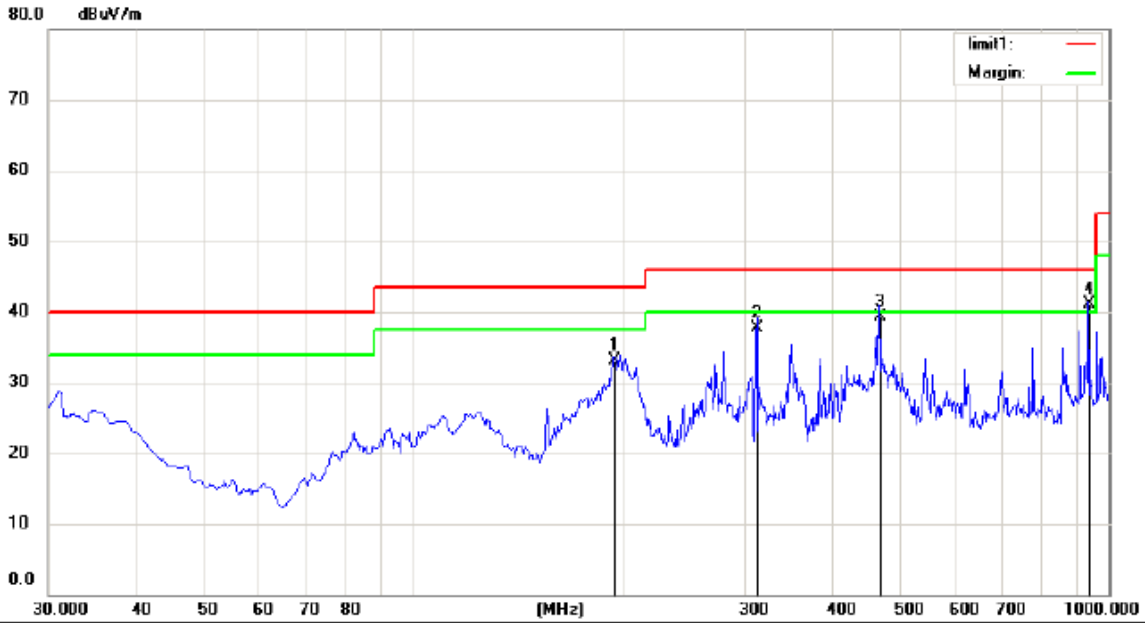
Radiated Emission Measurement

File : DigiFrame 1960

Data : #10

Date : 2009-7-10

Time : 16:08:45



Site Chamber #1 Polarization: **Vertical** Temperature: 26
 Limit: (RE)FCC PART 15 class B 3m Power: AC 120V/60Hz Humidity: 55 %
 EUT: 19 Inch Digital Photo Frame
 M/N: DigiFrame 1960
 Mode: CF CARD PLAYING
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		194.9000	47.39	-14.35	33.04	43.50	-10.46			QP
2		312.2700	48.31	-10.65	37.66	46.00	-8.34			QP
3		467.4700	47.25	-7.93	39.32	46.00	-6.68			QP
4	*	936.9500	42.91	-1.81	41.10	46.00	-4.90			QP

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

Operator:

4. PHOTOGRAPHS

4.1 Photo of Power Line Conducted Emission Measurement



4.2 Photo of Radiated Emission Measurement



4.3 Photos of EUT

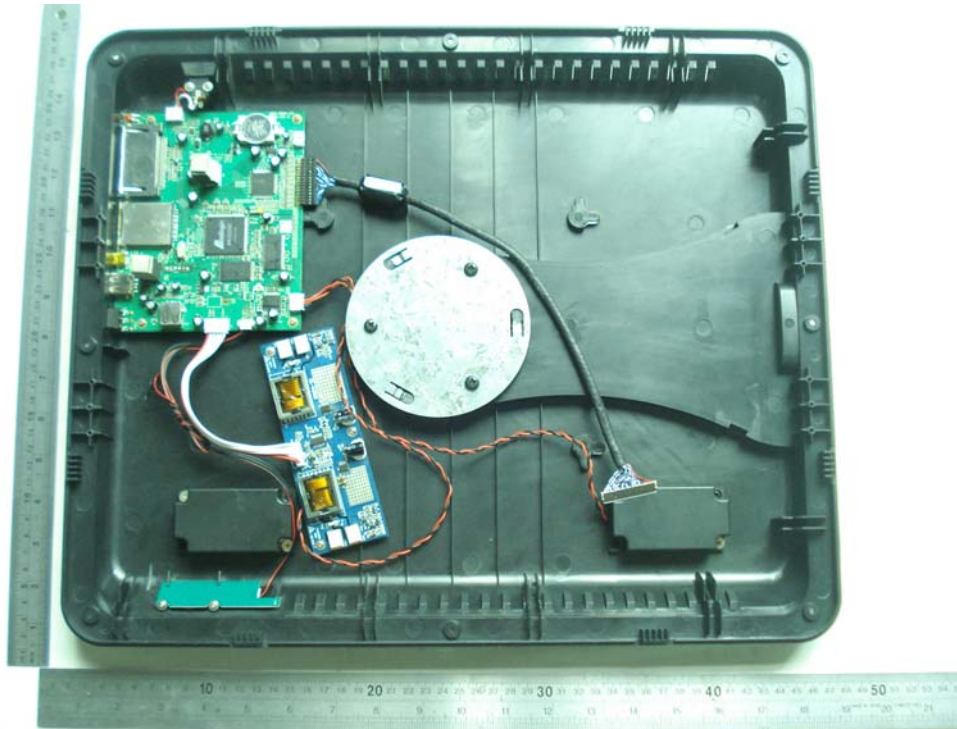
General Appearance of EUT



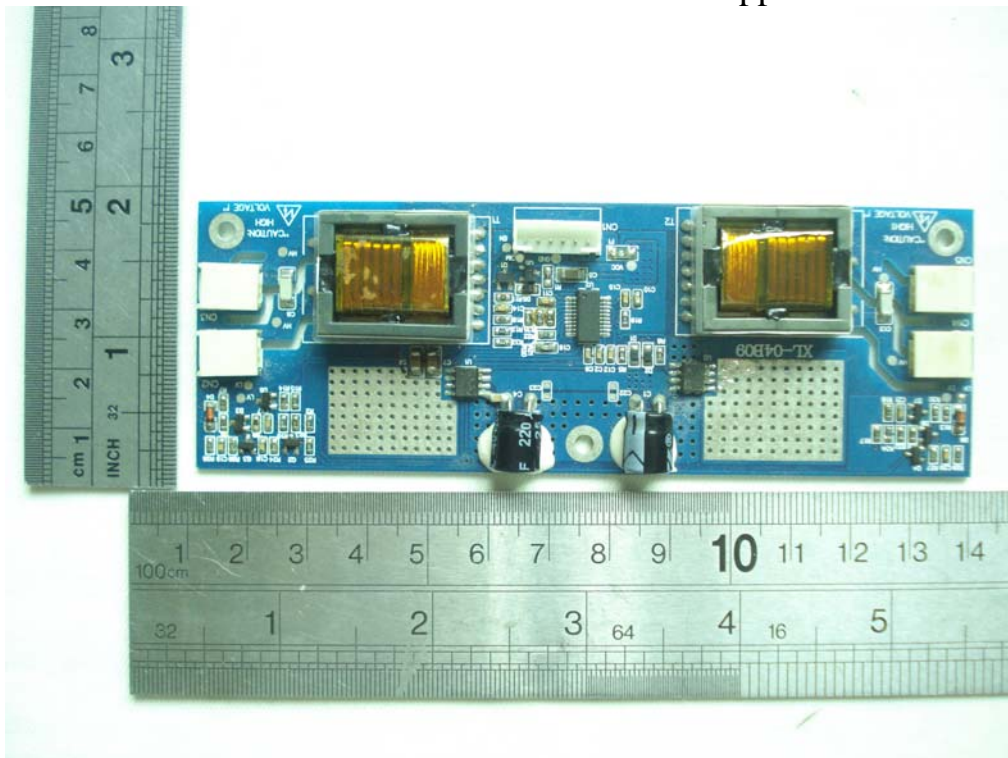
General Appearance of EUT



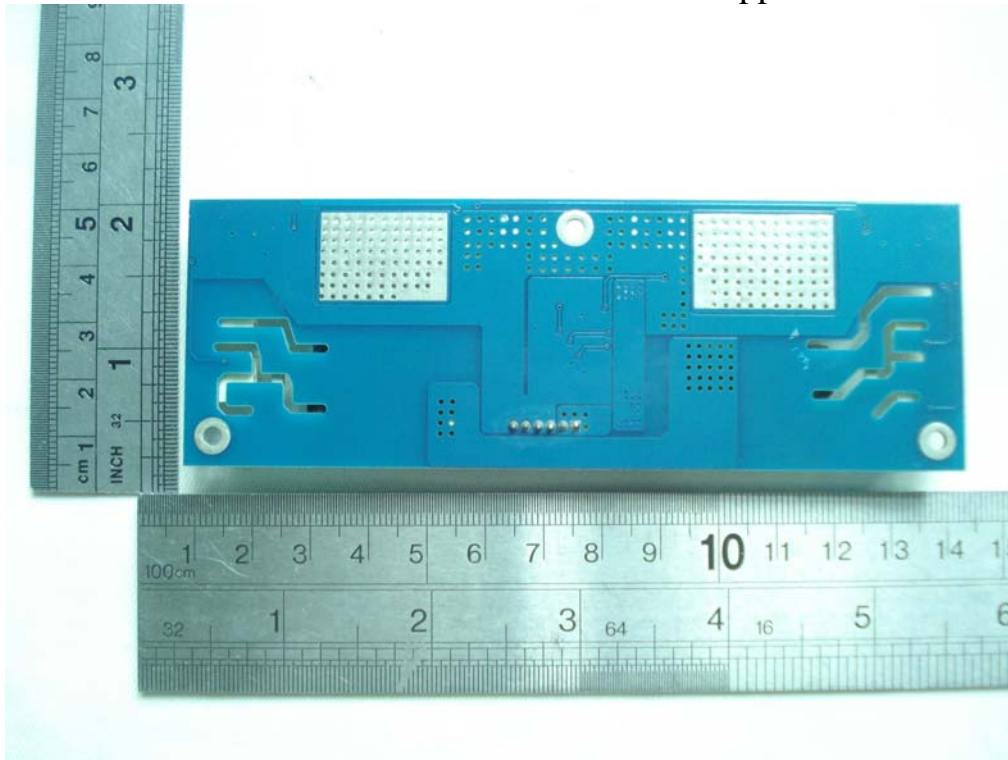
General Internal of EUT



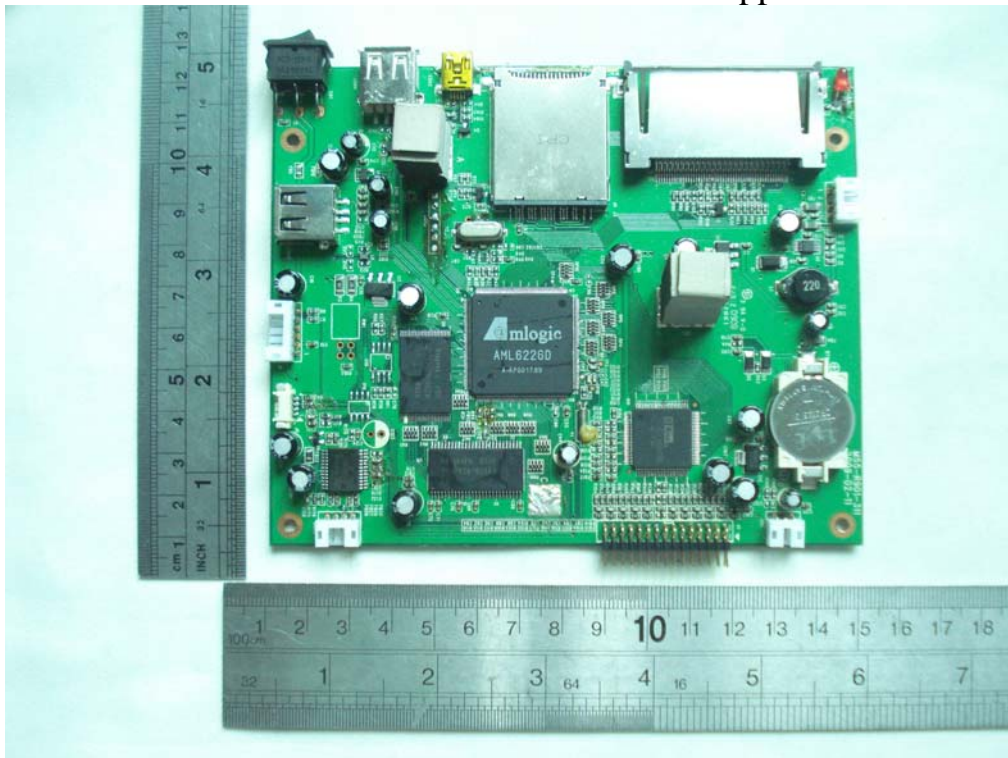
General Appearance of PCB



General Appearance of PCB



General Appearance of PCB



General Appearance of PCB

