



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 0808061
File reference No: 2008-11-15

Applicant: WIN ACCORD LTD.

Product: Digital Photo Frame

Brand Name: SMARTPARTS

Model No: SP1000EF

Test Standards: FCC Part 15 Subpart B: 2006

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: Nov 15. 2008

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: WIN ACCORD LTD.
Address: 12F,NO.225,SEC 5,105 SONG SHAN DIST.,NAN JING EAST ROAD,TAIPEI,TAIWAN,R.O.C
Telephone: 02-2749 3837
Fax: 02-2749-3918

1.3 Description of EUT

Product: Digital Photo Frame
Manufacturer: WIN ACCORD LTD.
Address: Shatou Section. Zhen'an Road, Chang'an, Town, Dongguan City
Brand Name: SAMARTPARTS
Model Number: SP1000EF
Additional Model SP1000
Number:
Remark: Just model names and appearance color are different.
Rating: Input: DC 12V , 2A

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2008-09-26 to 2008-11-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

A handwritten signature in black ink that reads 'Terry Tang'.

Print Name: Terry Tang

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2008.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2008.2.24	1Year
LISN	NTFM8136	8136102	SCHWARZBECK	2008.2.24	1Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with Tracking Generator)	MS2661C	MT72089	ANRITSU	2008.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2008.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2008.2.23	1Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Electronic Equipment	MT-20	WNDGDZC-080	Derfu	N/A	N/A
Adaptor	SB3D-040-1MWND	9960641	SUNSHEN	N/A	N/A

2.4 I/O Cable

Cable No.	Port	Connector Type	Cable Type	Cable Length
1	Communication port	N/A	Data communication	1.0

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 15 Subpart B: 2006

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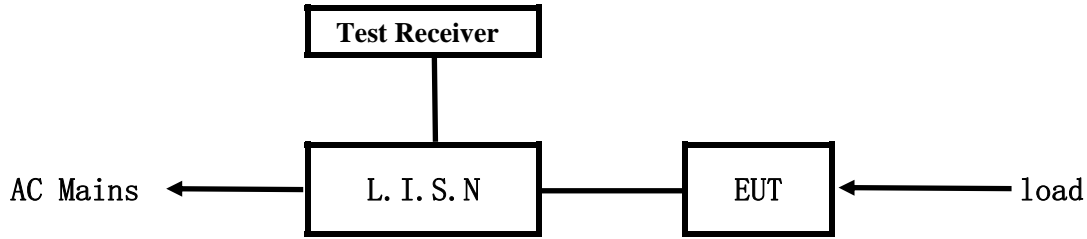
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4.0 Conducted Power line Test

4.1 Schematics of the test

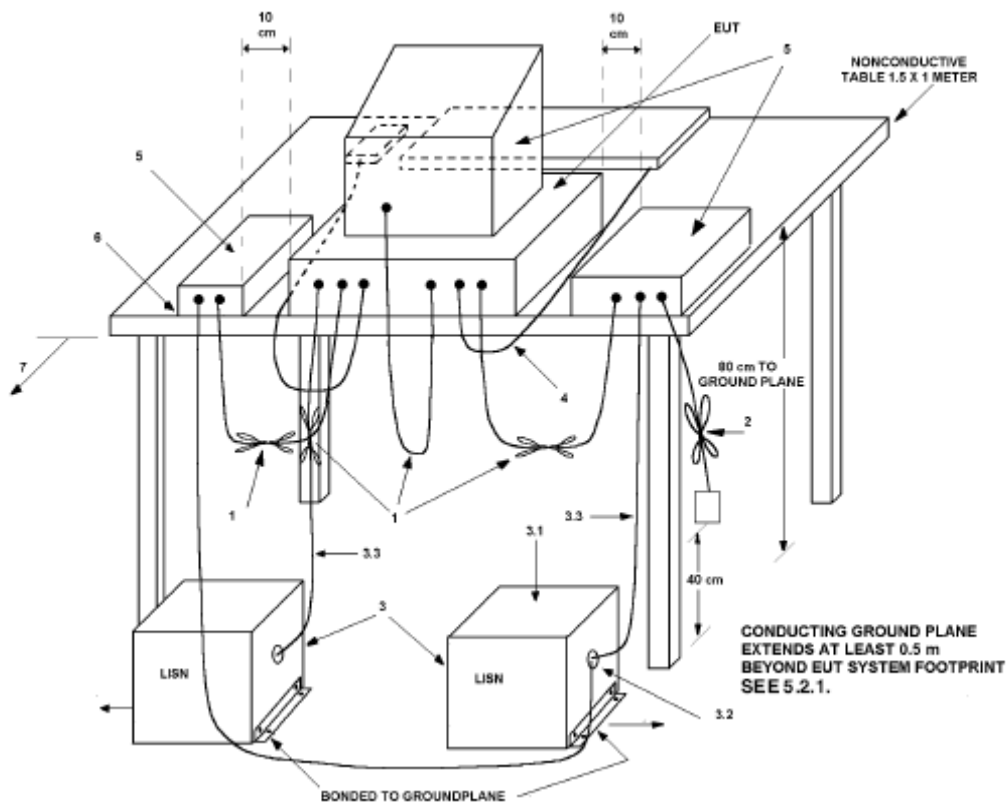


EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μ V)		Class B Limits dB(μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

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

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing SD Card

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

Conducted Emission Measurement

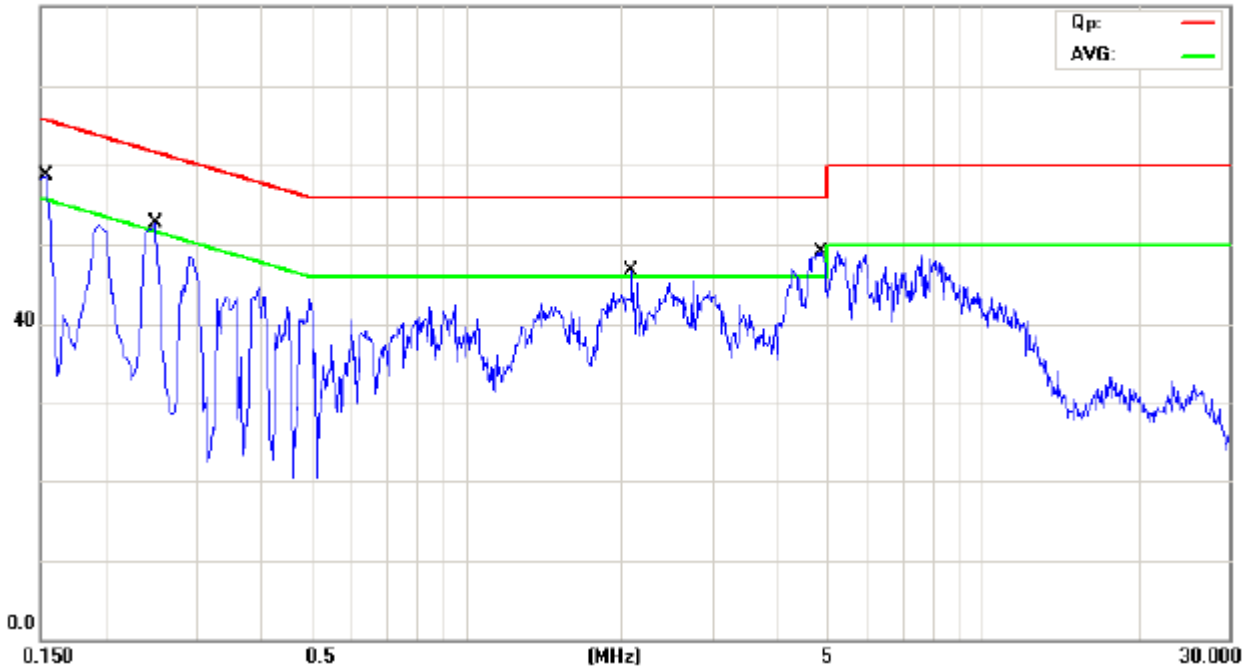
File :SP1000EF

Data :#13

Date: 08/11/11/

Time: 13/45/21

80.0 dB μ V



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1537	--	--	54.30	41.60	65.80	65.80
0.2490	--	--	48.40	40.70	61.79	61.79
4.8476	--	--	43.04	30.04	56.00	46.00
2.0915	--	--	36.94	20.04	56.00	46.00

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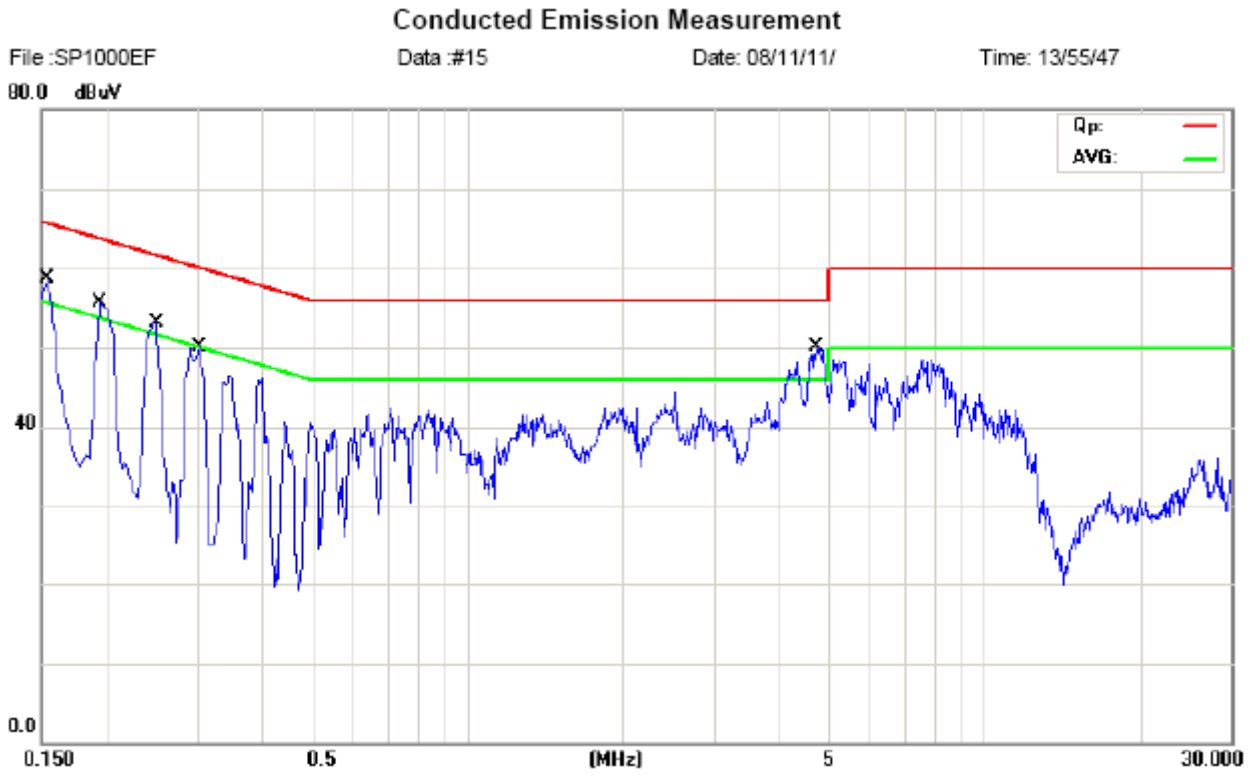
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing SD Card
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1538	56.10	47.70	--	--	65.79	55.79
0.1932	50.75	37.55	--	--	63.90	53.90
0.2466	49.70	39.30	--	--	61.87	51.87
0.3014	45.65	40.46	--	--	60.20	50.20
4.7215	43.89	41.89	--	--	56.00	46.00

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TEST REPORT

Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing CF Card

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

Conducted Emission Measurement

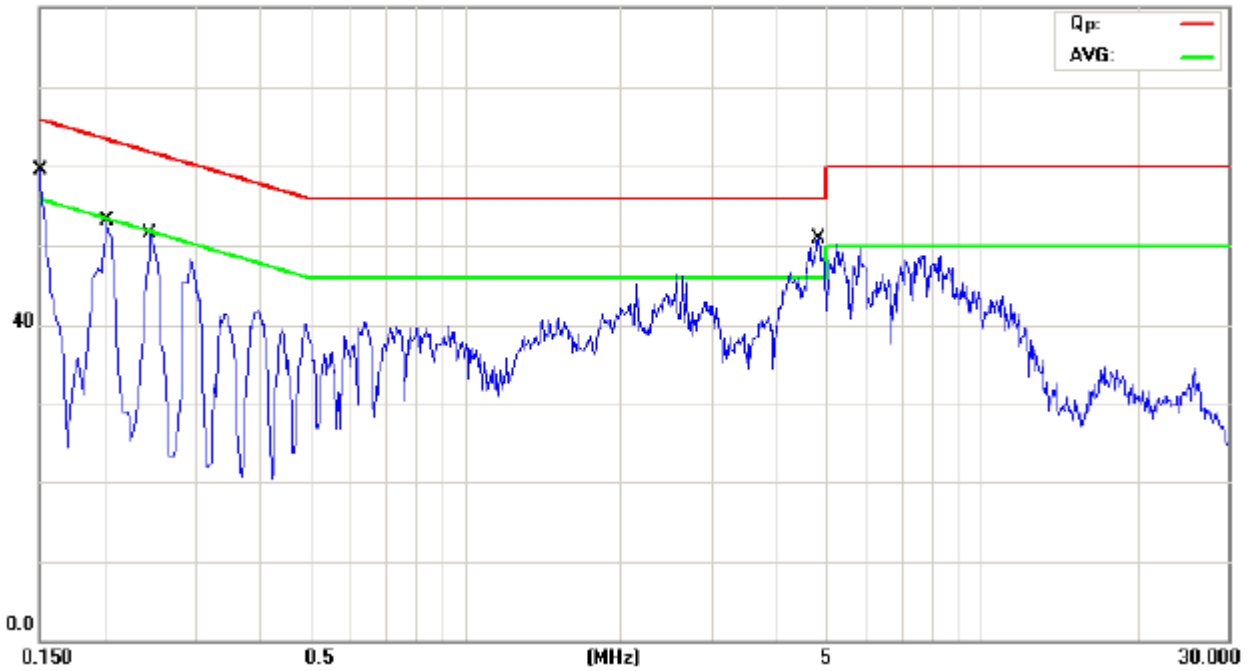
File :SP1000EF

Data :#17

Date: 08/11/11/

Time: 14/11/02

00.0 dB μ V



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1507	--	--	55.70	43.90	65.96	55.96
0.2016	--	--	48.85	37.45	63.54	53.54
0.2452	--	--	47.40	40.60	61.92	51.92
4.8343	--	--	44.03	31.53	56.00	46.00

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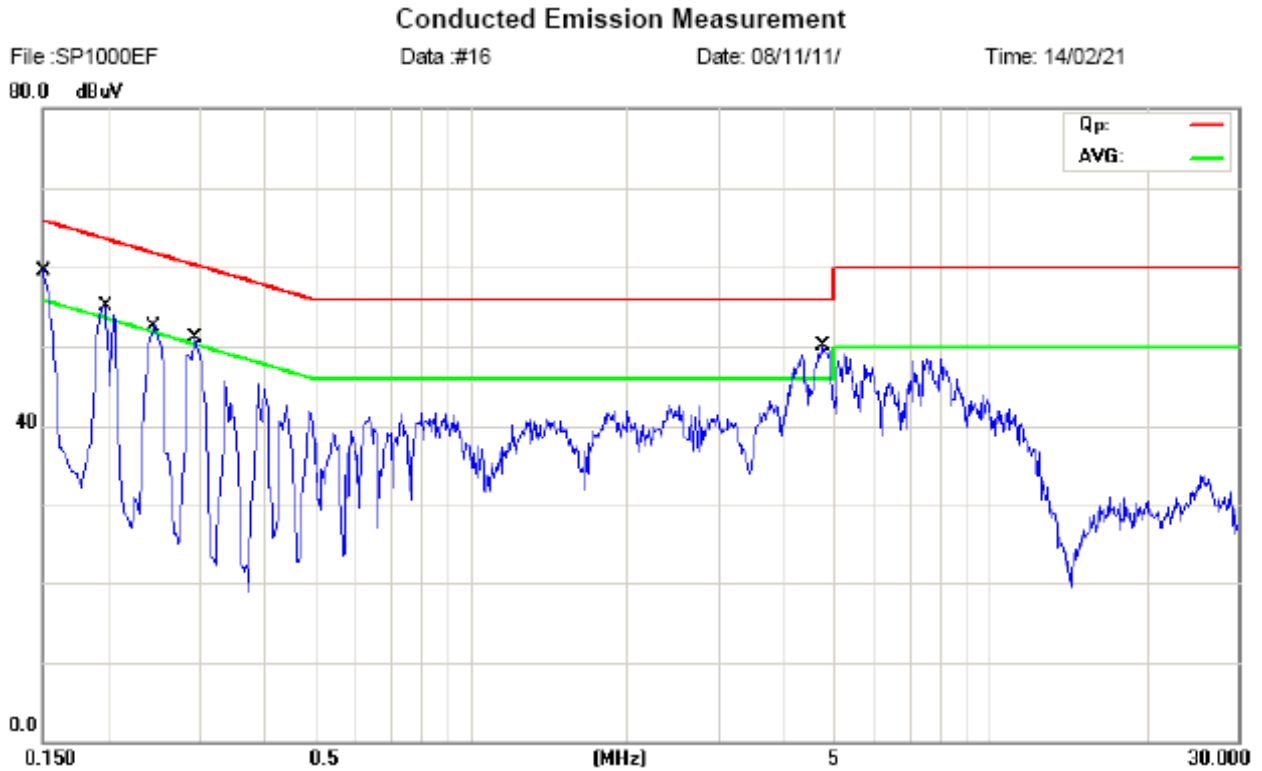
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing CF Card
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak Average	
	Quasi-peak	Average	Quasi-peak	Average		
0.1508	55.70	43.70	--	--	65.96	65.96
0.1965	51.15	39.55	--	--	63.76	63.76
0.2457	49.20	39.40	--	--	61.90	61.90
0.2937	46.25	35.65	--	--	60.42	60.42
4.7490	43.90	37.70	--	--	56.00	56.00

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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing USB

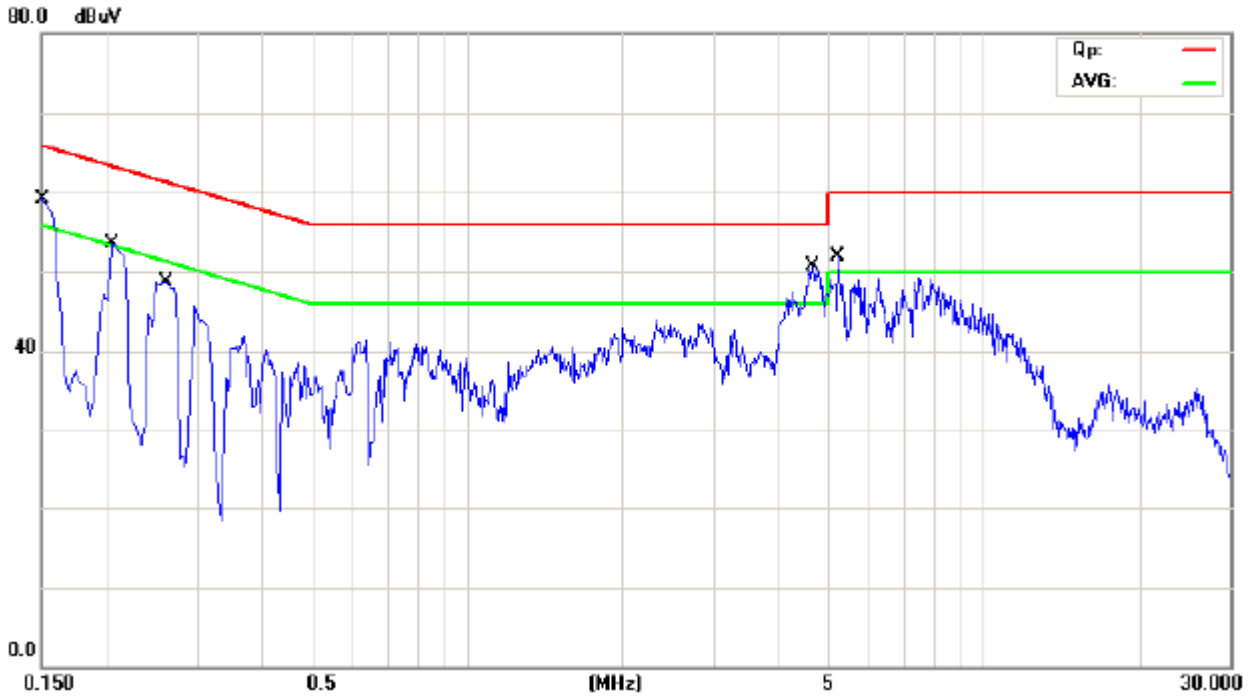
Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

Conducted Emission Measurement

File :SP1000EF Data :#18 Date: 08/11/11/ Time: 14/18/07



Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1508	--	--	55.00	44.50	65.96	55.96
0.2055	--	--	49.46	39.06	63.39	53.39
0.2590	--	--	44.62	36.42	61.46	51.46
4.6790	--	--	43.87	33.27	56.00	46.00
5.2207	--	--	46.31	34.31	60.00	50.00

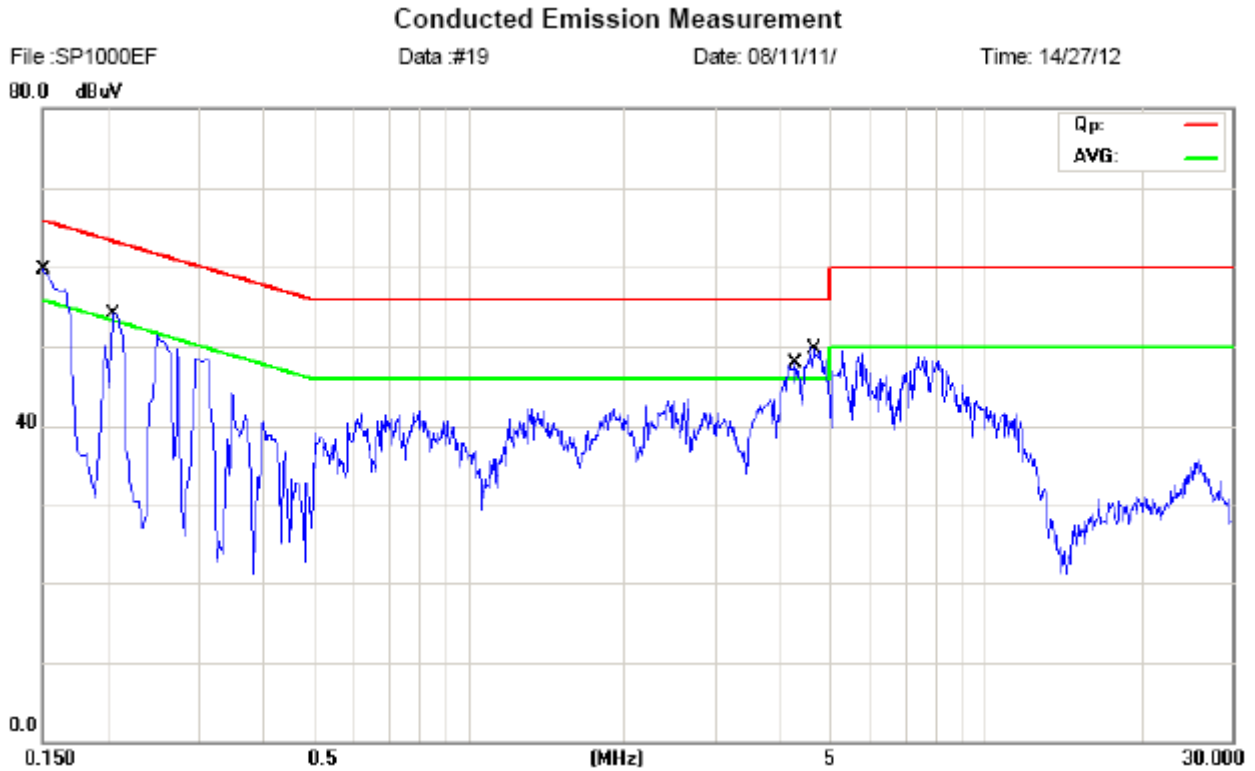
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing USB
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1510	55.20	43.10	--	--	65.94	65.94
0.2051	50.96	39.86	--	--	63.40	63.40
4.2763	41.91	32.11	--	--	56.00	46.00
4.6647	43.87	33.27	--	--	56.00	46.00

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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC

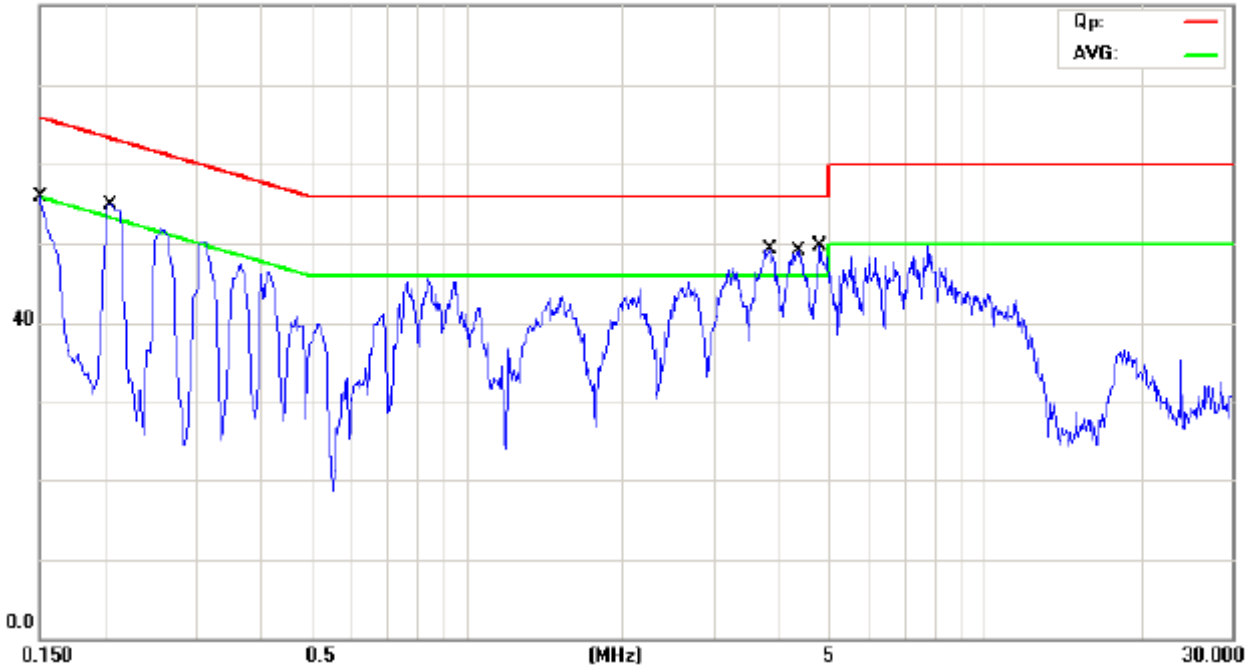
Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

Conducted Emission Measurement

File :SP1000EF Data :#20 Date: 2008/11/11 Time: 17:08:05
 00.0 dB μ V



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1510	--	--	53.70	47.40	65.94	55.94
0.2060	--	--	51.36	48.46	63.37	53.37
3.8490	--	--	43.34	35.14	56.00	46.00
4.3718	--	--	43.45	34.95	56.00	46.00
4.8208	--	--	43.93	38.23	56.00	46.00

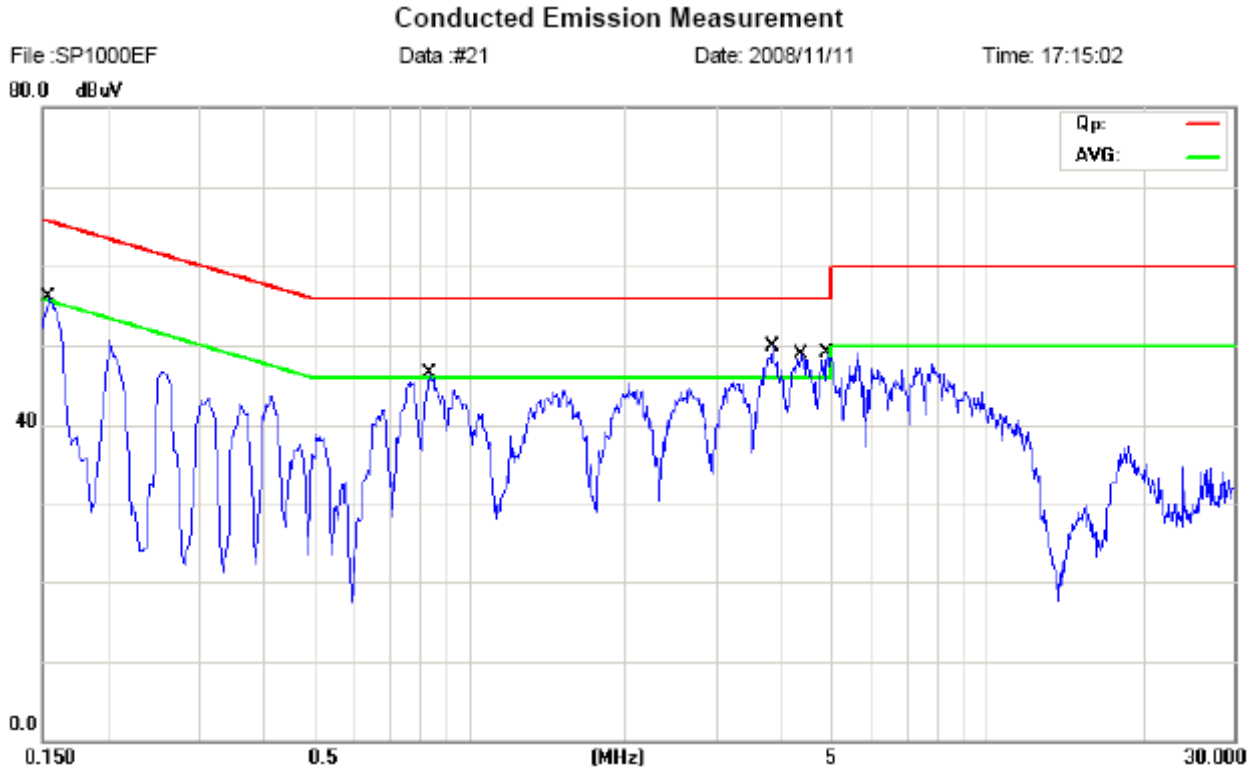
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



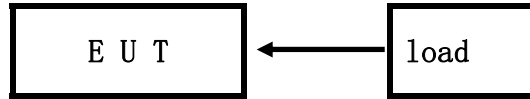
Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1540	52.60	39.80	--	--	65.78	55.78
0.8361	41.63	29.43	--	--	56.00	46.00
3.8677	43.75	35.35	--	--	56.00	46.00
4.4083	43.56	34.66	--	--	56.00	46.00
4.9120	42.56	31.56	--	--	56.00	46.00

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5.0 Radiated Disturbance Test

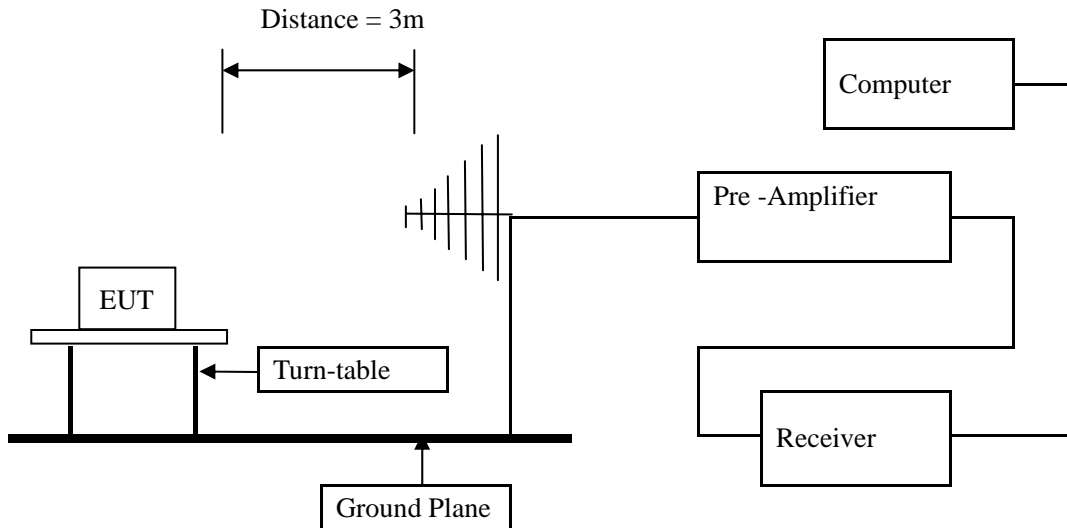
5.1 Schematics of the test



5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

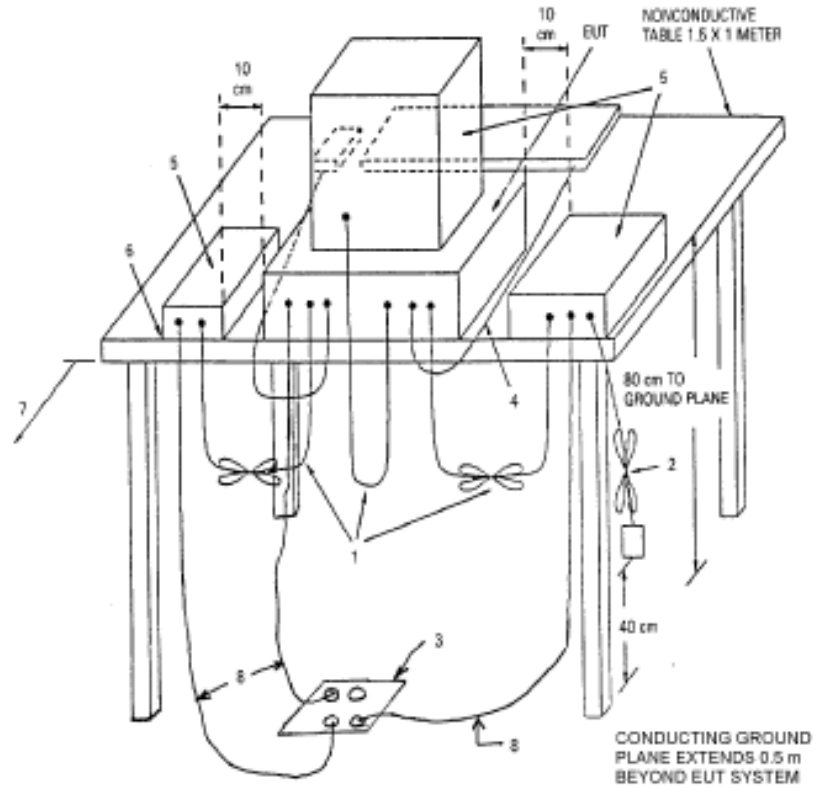
Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

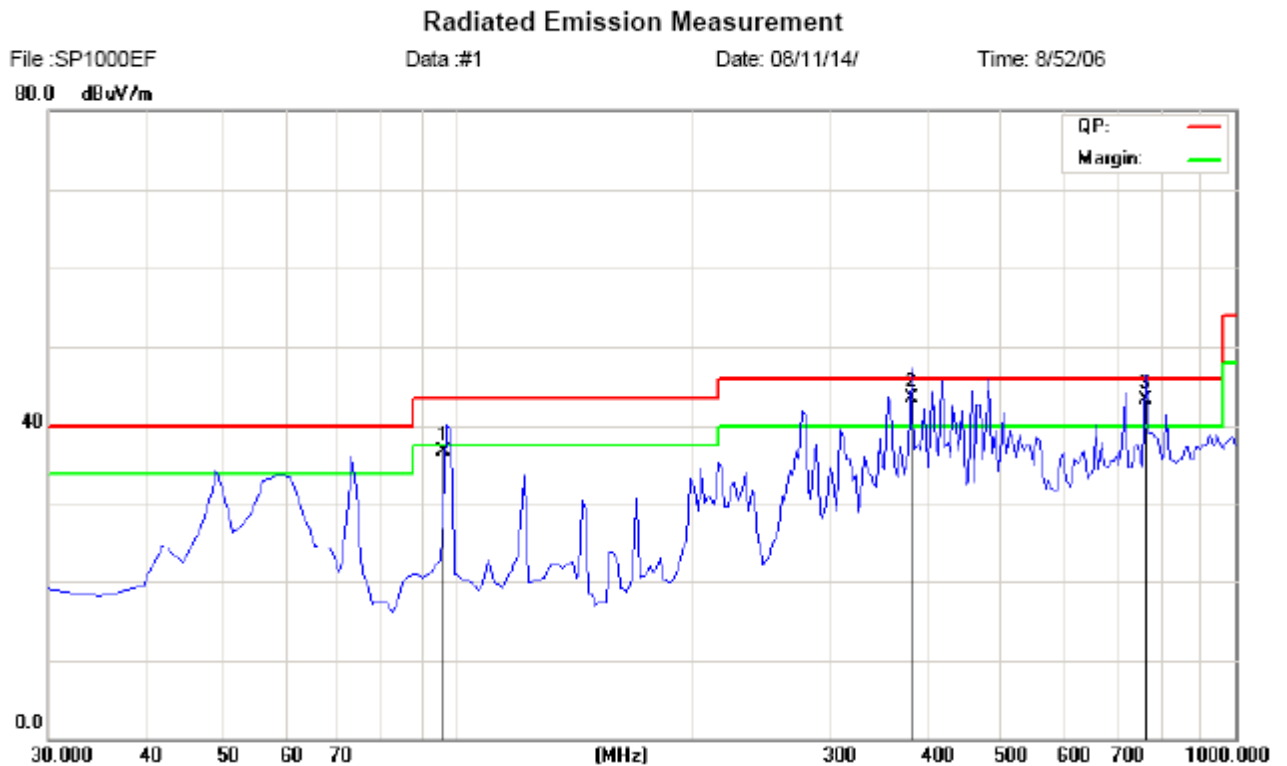
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A: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Connected to PC
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
96.027	36.72	H	43.50
384.076	43.46	H	46.00
768.134	43.40	H	46.00

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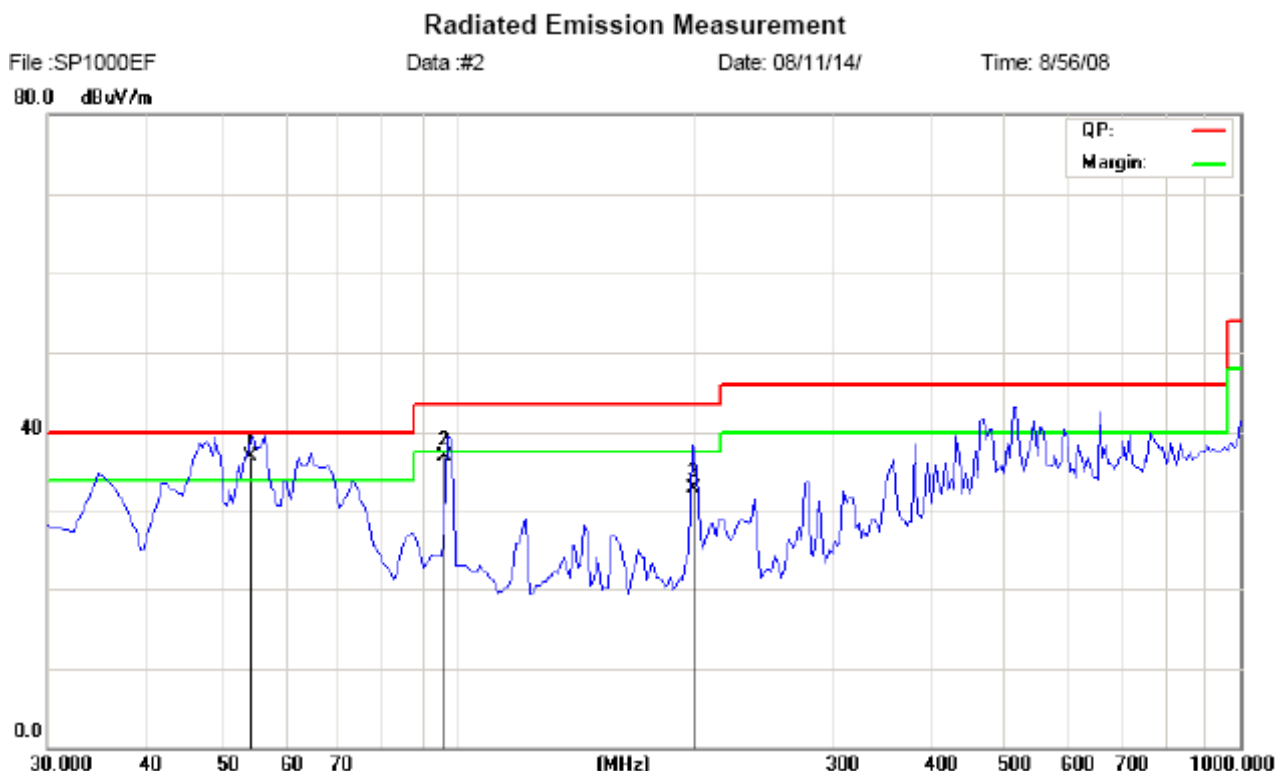
B: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Connected to PC

Level: Class B

Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
54.135	36.85	V	40.00
96.024	36.95	V	43.50
199.399	32.87	V	43.50

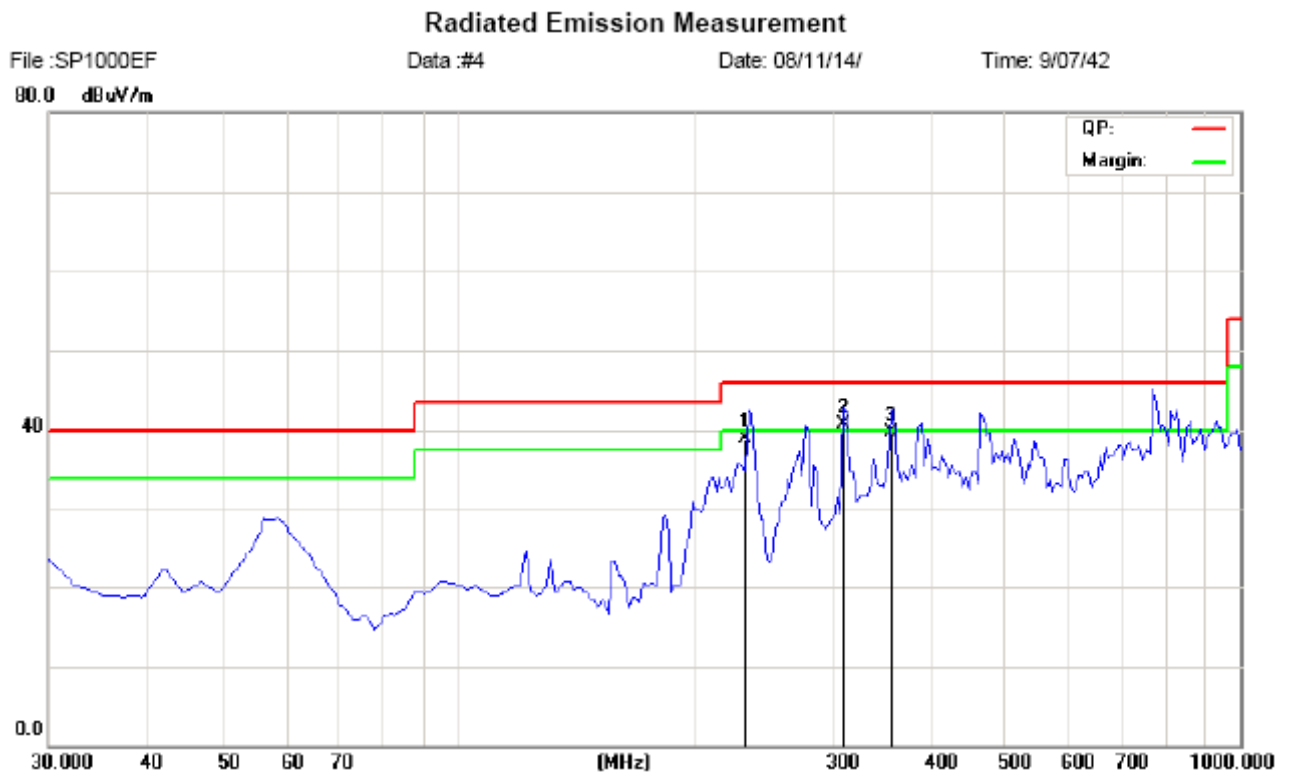
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C: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Reading SD Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
233.172	38.98	H	46.00
311.011	40.69	H	46.00
356.526	39.77	H	46.00

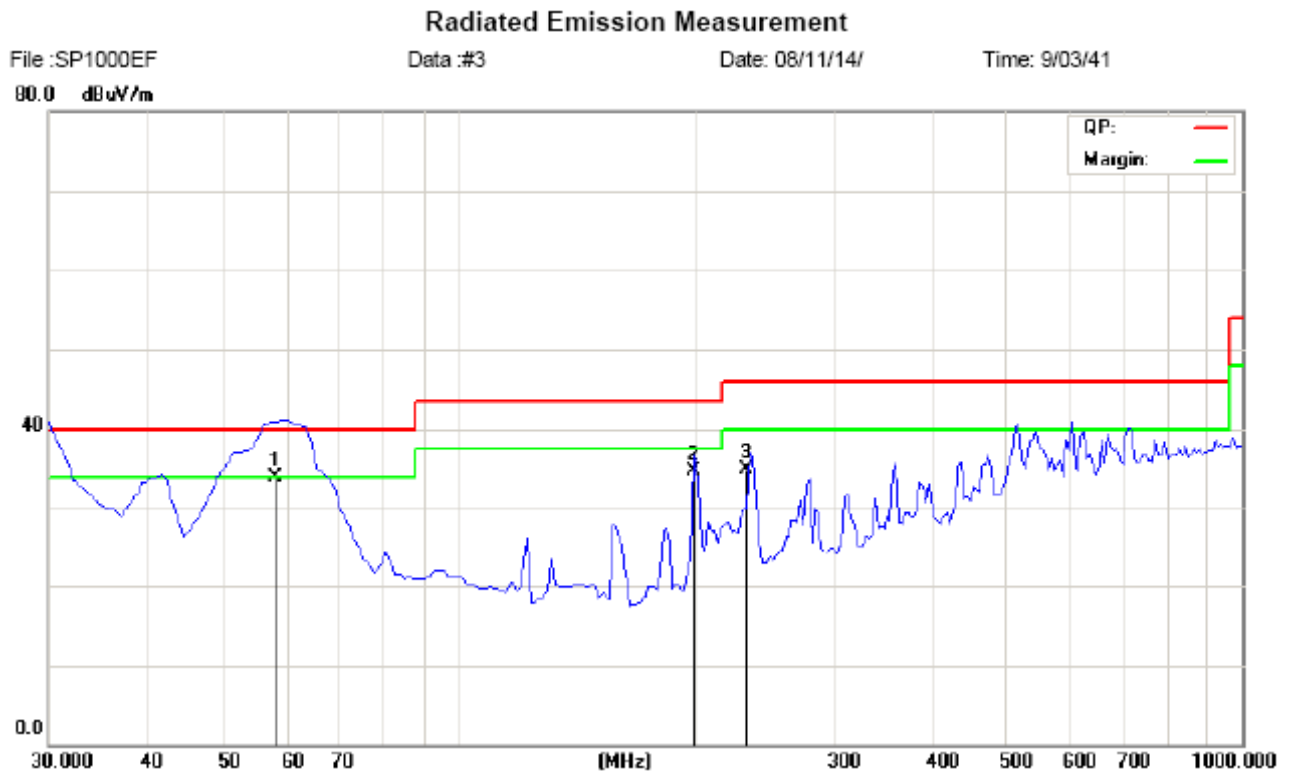
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D: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Reading SD Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
58.380	33.91	V	40.00
198.183	34.72	V	43.50
233.302	34.97	V	46.00

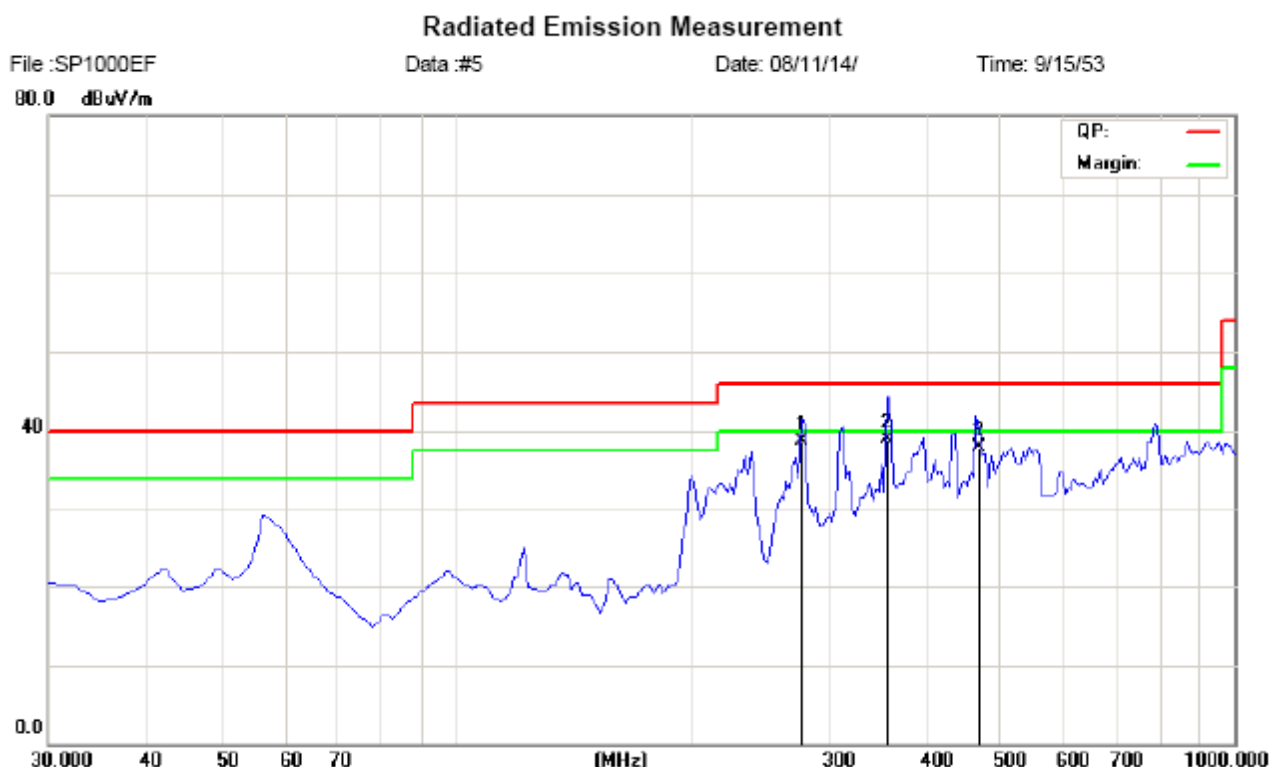
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E: Radiated Disturbance In Horizontal (30MHz---1000MHz)

EUT set Condition: Reading CF Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
277.295	38.77	H	46.00
356.504	38.99	H	46.00
466.460	38.00	H	46.00

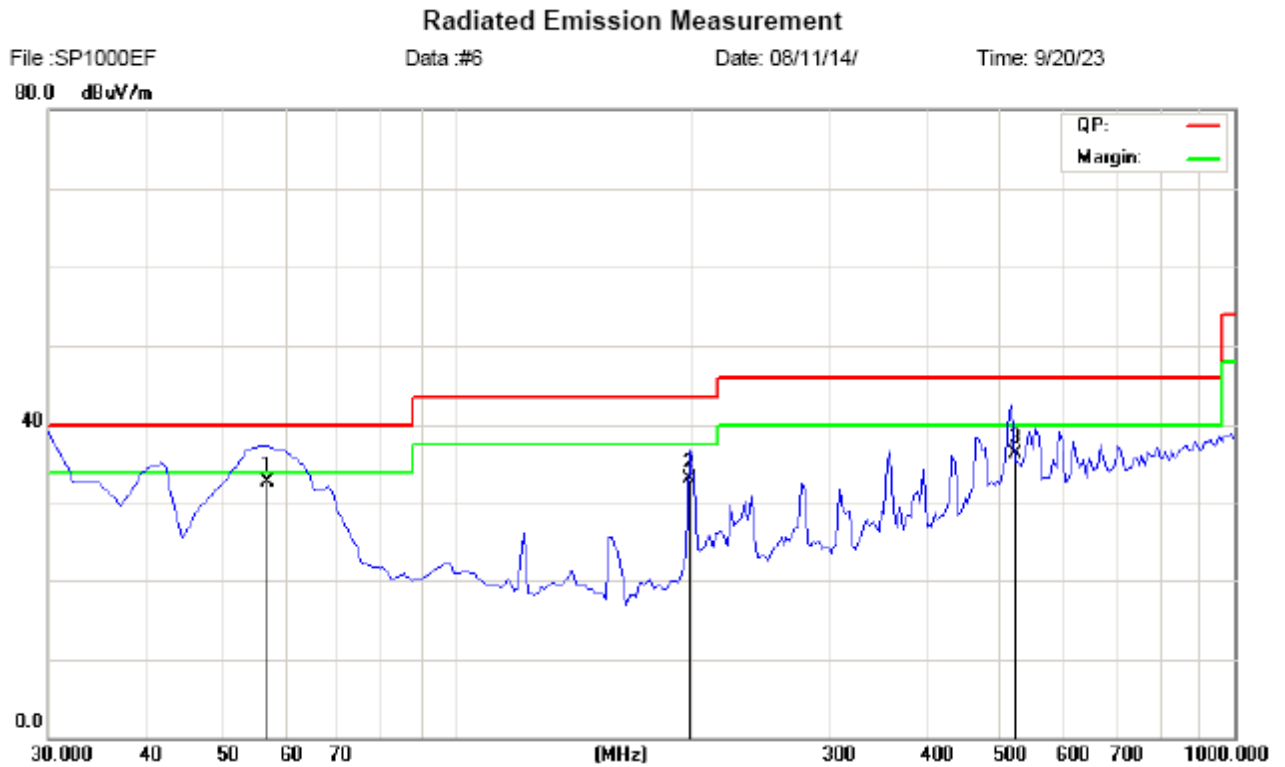
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F: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Reading CF Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
56.955	32.69	V	40.00
197.861	33.11	V	43.50
518.706	36.23	V	46.00

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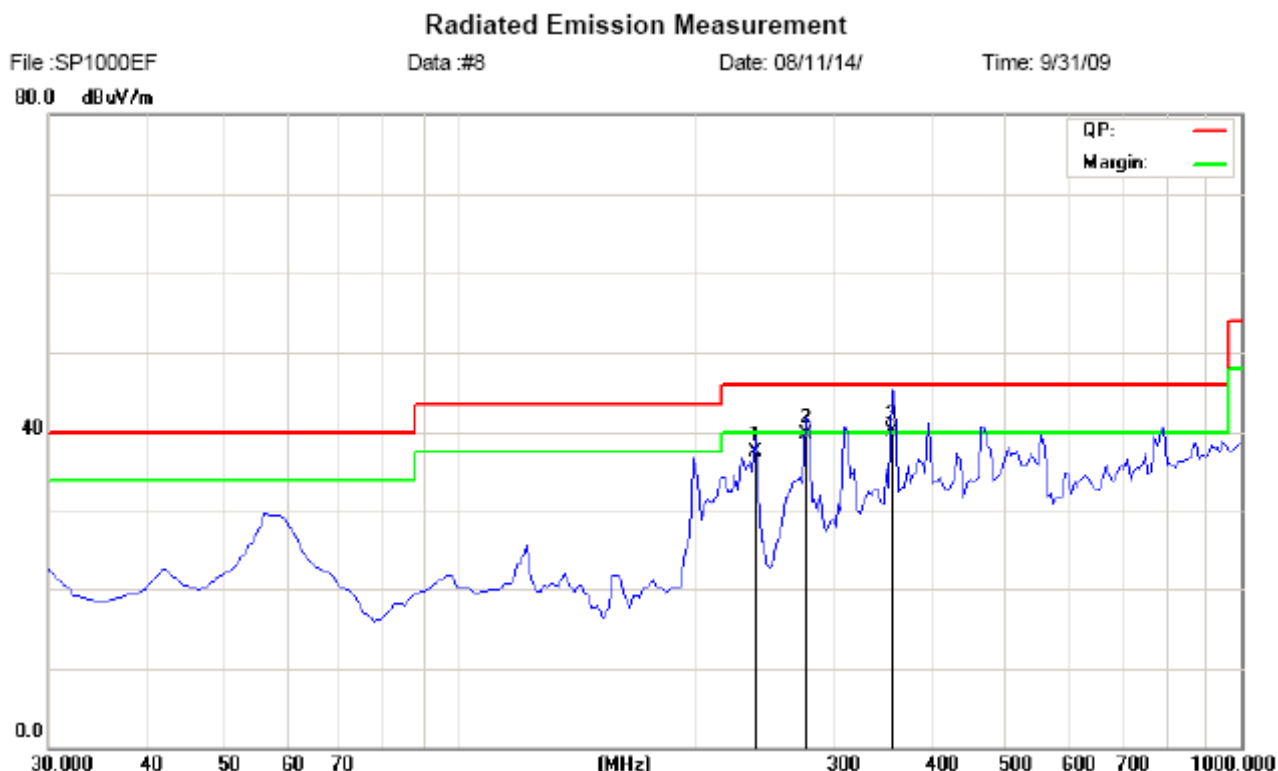
G: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Reading USB

Level: Class B

Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
237.667	37.41	H	46.00
277.261	39.75	H	46.00
356.498	40.06	H	46.00

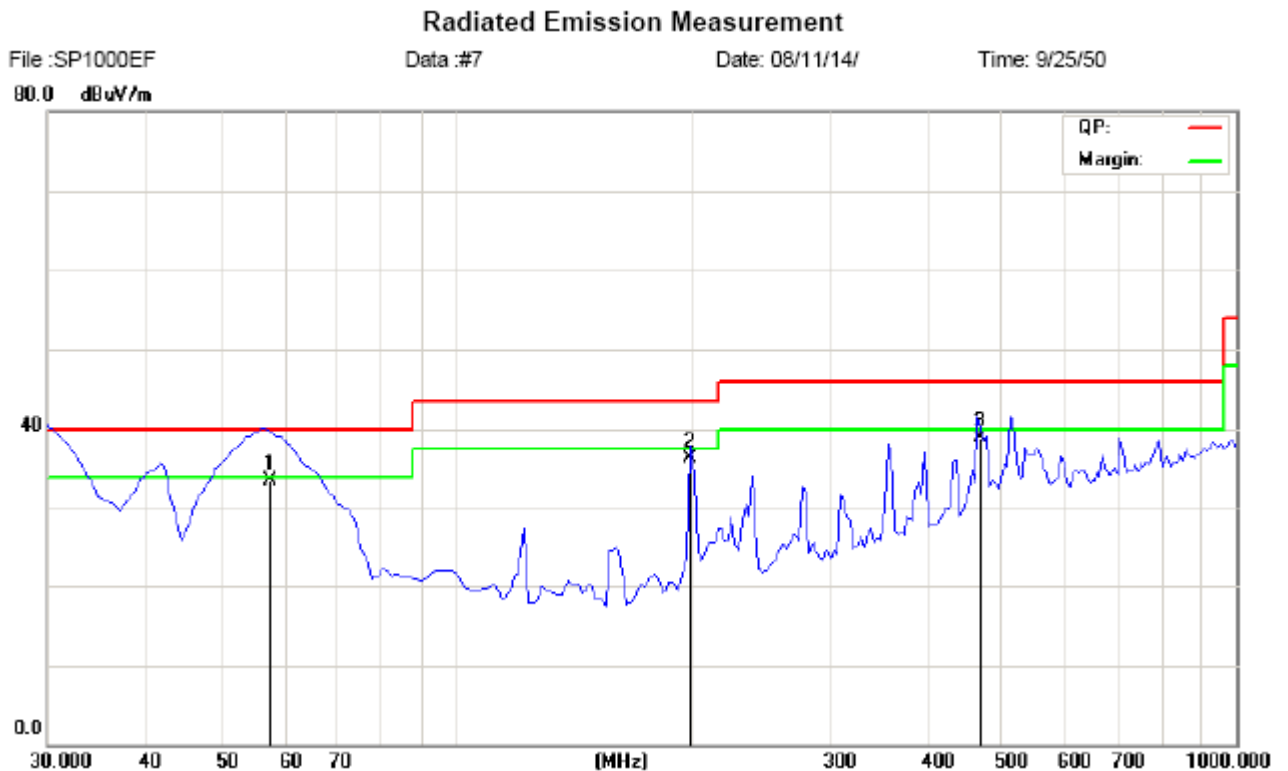
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H: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Reading USB
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
57.600	33.60	V	40.00
198.062	36.31	V	43.50
469.698	38.88	V	46.00

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6.0 FCC ID Label

FCC ID: V37-104INCHDPF

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



FCC ID Label Location



7.0 **Photo of testing**

7.1 Conducted test View—



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7.2 Radiated emission test view--



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7.3 Photo for the EUT

Front View



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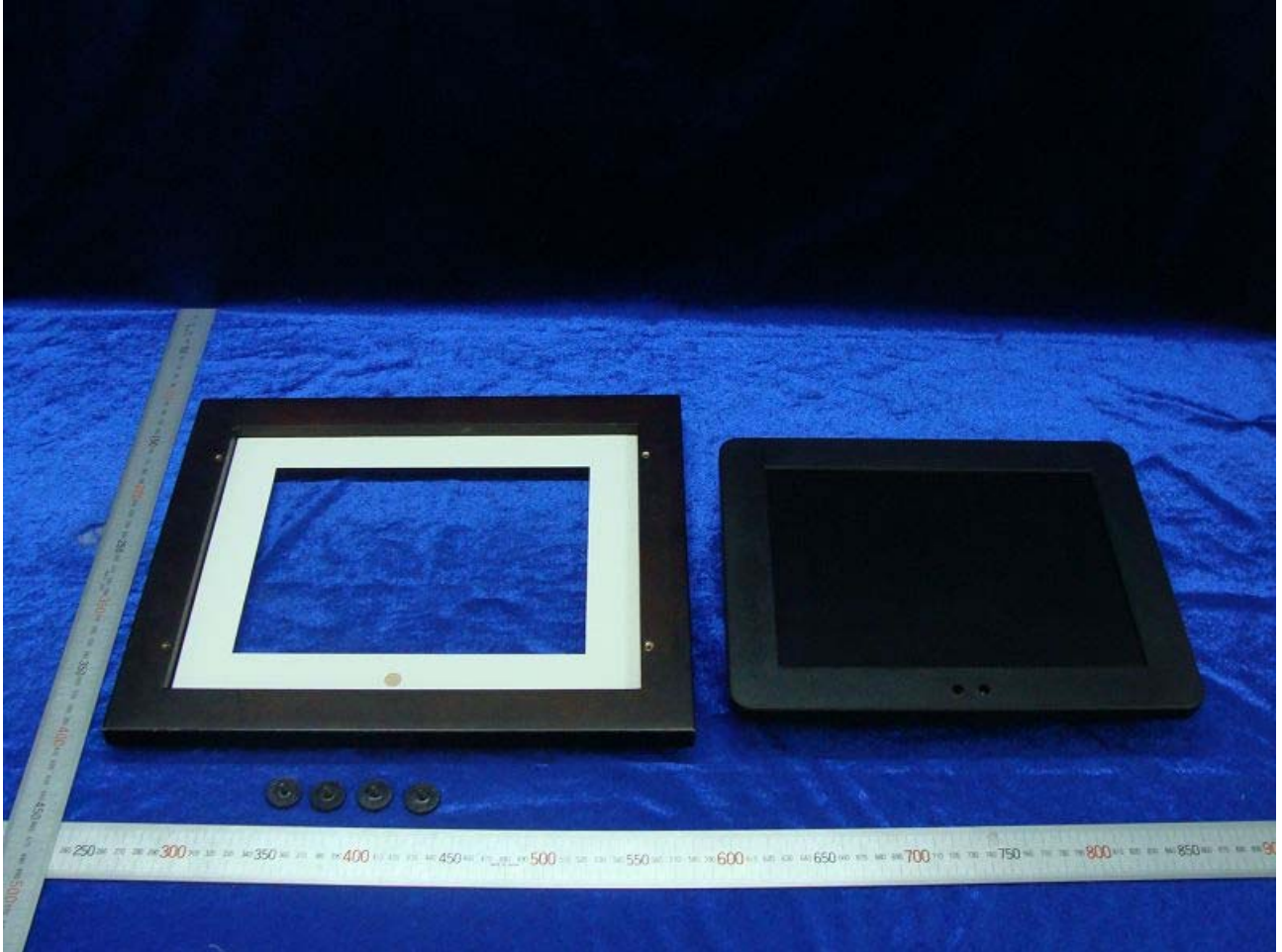
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Front View



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Back View



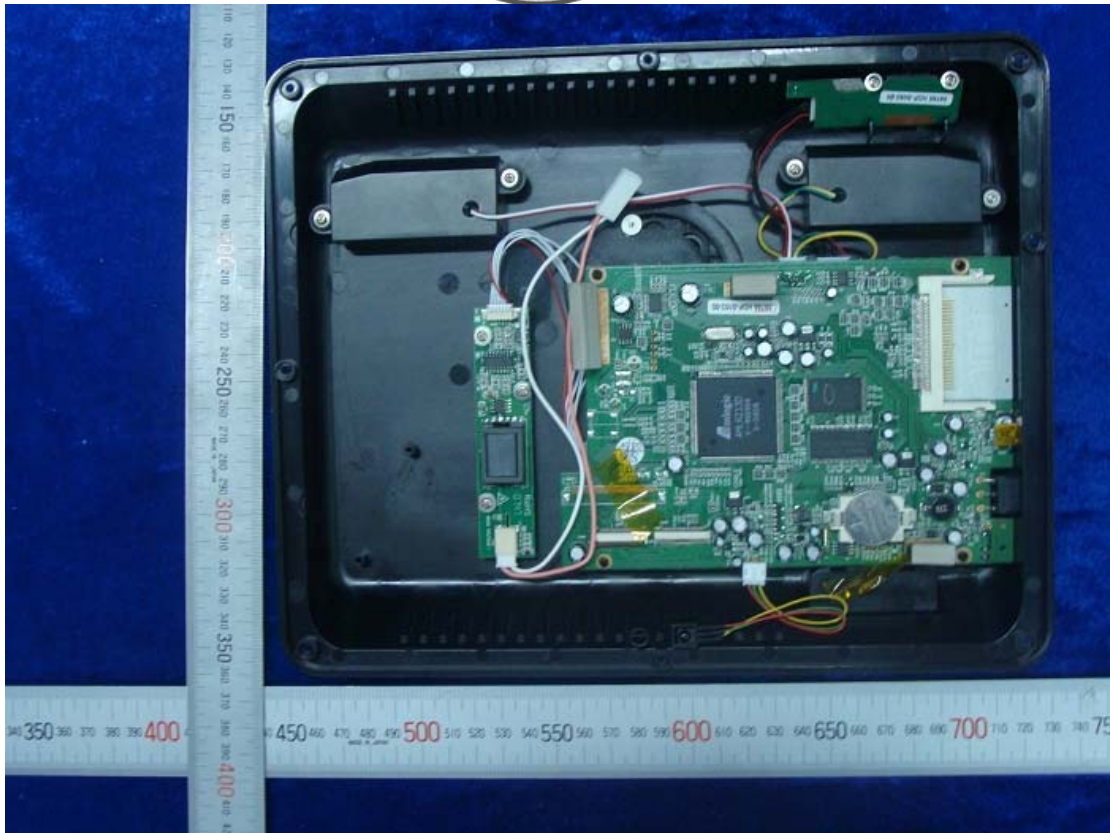
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Inside View1



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Inside View2



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Inside View4



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Inside View5



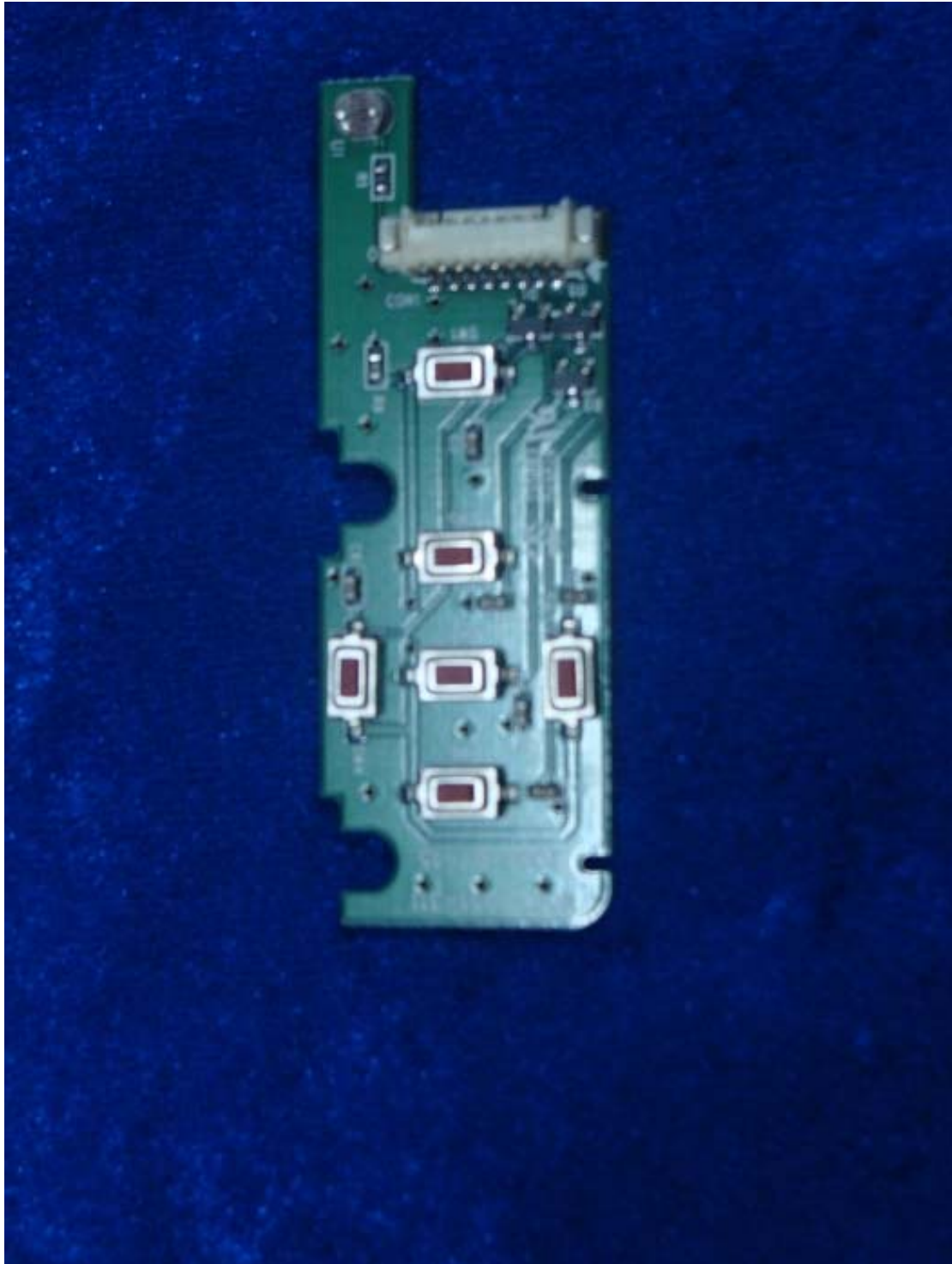
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Inside View6



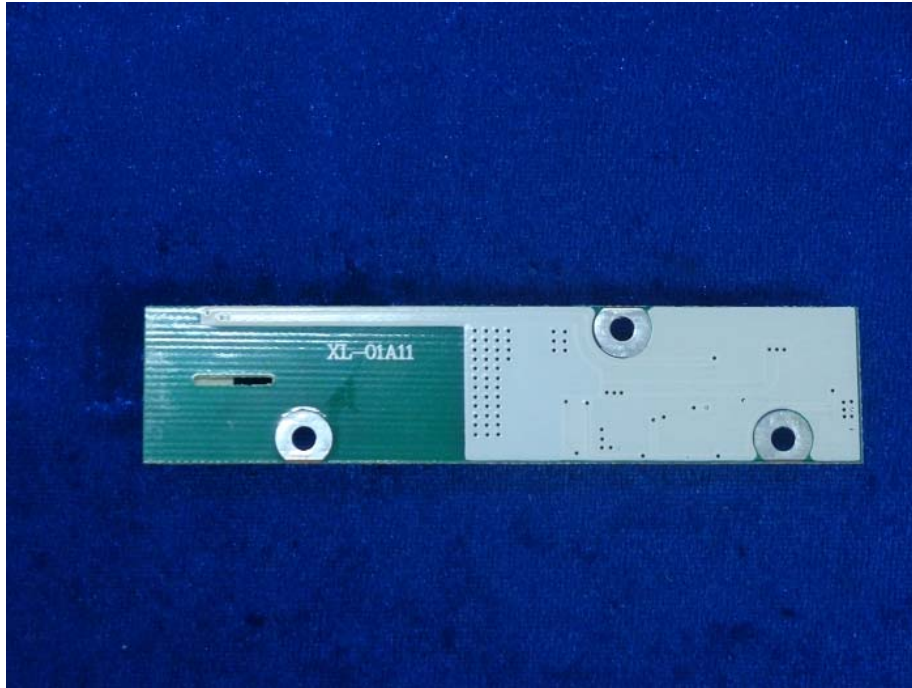
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Inside View7



-End of the report-

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