







ISO/IEC17025 Accredited Lab.

Report No: FCC 0904157 File reference No: 2009-04-30

Applicant: WIN ACCORD LTD.

Product: Digital Photo Frame

Brand Name: N/A

Model No: DF12001-05-XXX (X=A-Z, 0-9,a-z)

Test Standards: FCC Part 15 Subpart B: 2008

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: April 30, 2009

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

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Date: 2009-04-30



# **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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Date: 2009-04-30



#### 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** 

Telephone: 02-2749 3837 Fax: 02-2749-3918

### 1.3 Description of EUT

Product: Digital Photo Frame
Manufacturer: WIN ACCORD LTD.

Address: 12F, NO.225, SEC 5, 105 SONG SHAN DIST., NAN JING EAST ROAD, TAIPEI,

**TAIWAN** 

Brand Name: N/A

Model Number: DF12001-05-XXX (X=A-Z, 0-9, a-z)

Additional Model Number: N/A

The adapter Model No.: XKD-C1500IC12.0-18C-US (Made by MOSO)
Rating: Input: 100-240V, 0.7A Max, 50/60Hz Output: 12V, 1.5A
The adapter Model No.: ADS-18C-12N 12018GPCU (Made by HONOR)
Rating: Input: 100-240V, 0.6A Max, 50/60Hz Output: 12V, 1.5A

Remark: Just model names and appearance color are different.

Rating: Input: DC 12V, Current 1.5A

### 1.4 Submitted Sample(s): 1 Sample

1.5 Test Duration: 2009-04-23 to 2009-04-29

# 1.6 Test Uncertainty

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

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# 1.7

Print Name: Terry Tang

#### 2.0 List of Measurement Equipment

#### 2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8136	8136102	SCHWARZBECK	2009.2.24	1Year

#### Radiated electromagnetic disturbance test 2.2

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with					
Tracking Generator)	MS2661C	MT72089	ANRITSU	2009.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2009.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2009.2.23	1Year

#### 2.3 **Auxiliary Equipment**

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
				Data cable of	
				2m length	
Keyboard	KB-0225	1211815	IBM	unshielded	FCC DOC
				Data cable of	
				2m length	
				unshielded	
				and 1.8m length	
Printer	LaserJet 1015	CNFG029476	HP	AC Mains cable	DOC

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İ	1			i i	ĺ
				Data cable of	
				2m length	
				unshielded	
				and 1.8m length	
Printer	LaserJet 1022	CNBG591GM7	HP	AC Mains cable	DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	FP51G	ET47604175CLO	BENQ	Mains cable	FCC DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	6331-4CN	23-DNWX3	IBM	Mains cable	FCC DOC

			1.8m length	
PC	8434	 IBM	AC Mains cable	FCC DOC
			Data cable of	
Mouse	M-F105	 S.SElectron	1.5m length	FCC DOC

### 3.0 Technical Details

# 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

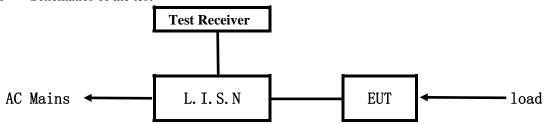
### 3.2 Test Standards

FCC Part 15 Subpart B: 2008



### 4.0 Conducted Power line Test

#### 4.1 Schematics of the test



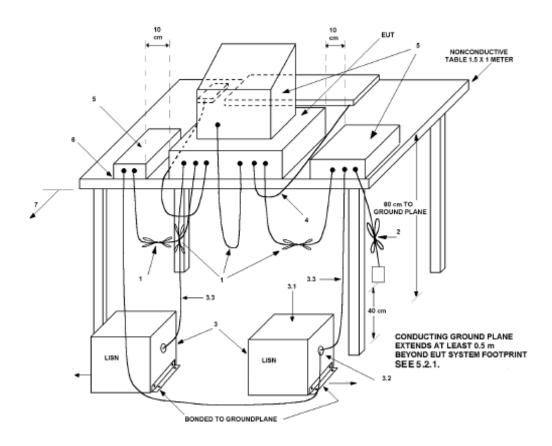
**EUT: Equipment Under Test** 

### 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.

Test Voltage: 120V~, 60Hz

### Block diagram of Test setup



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### 4.3 Power line conducted Emission Limit

Fraguency (MUz)	Class A Li	mits dB(μV)	Class B Limits dB(μV)		
Frequency(MHz)	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*	
$0.50 \sim 5.00$	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.

# A: Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

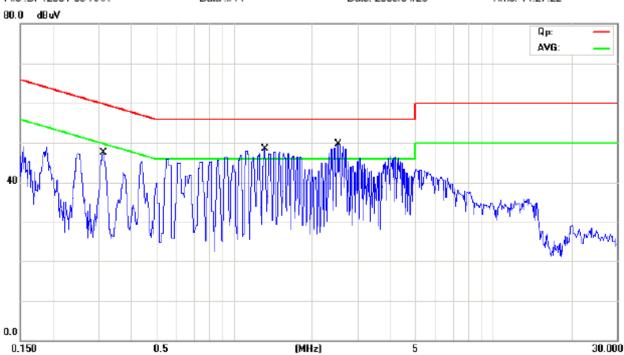
Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

#### Conducted Emission Measurement

File :DF12001-05-XXX Data :#14 Date: 2009/04/23 Time: 14:27:22



Eraguanav		Reading	Limi	t		
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.3110	42.47	36.37			59.94	49.94
1.0309	42.72	35.32			56.00	46.00
2.5027	44.40	37.80			56.00	46.00



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

EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

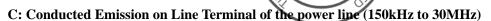
### Conducted Emission Measurement

F		Reading		Limit		
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.3152	-	1	43.37	36.37	65.84	55.84
0.4372			43.60	36.70	64.10	54.10
2.5592			44.12	37.72	56.00	46.00
2.3738			44.85	37.75	50.00	60.00

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EUT set Condition: Play SD

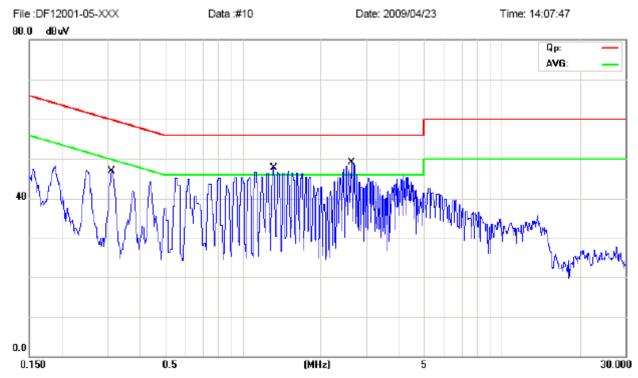
Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

### Conducted Emission Measurement



Ema assam ass		Reading	Limi	t			
Frequency (MHz)	Live	Live		Neutral		(dB µ V)	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average	
0.313	41.97	36.27			59.88	49.88	
1.314	43.63	37.23			56.00	46.00	
2.628	44.15	37.85			56.00	46.00	



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

EUT set Condition: Play SD

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

### Conducted Emission Measurement

File :DF12001-05-XXX Data :#9 Date: 2009/04/23 Time: 14:03:53

90.0 dB w

40

0.150 0.5 (MHz) 5 30.000

Frequency (MHz)		Reading	Limi	t		
	Live	<b>;</b>	Neutral (d		(dB µ	μ <b>V</b> )
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.562			42.84	36.74	56.00	46.00
2.379			44.05	37.65	56.00	46.00
2.569			43.43	37.63	56.00	46.00



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

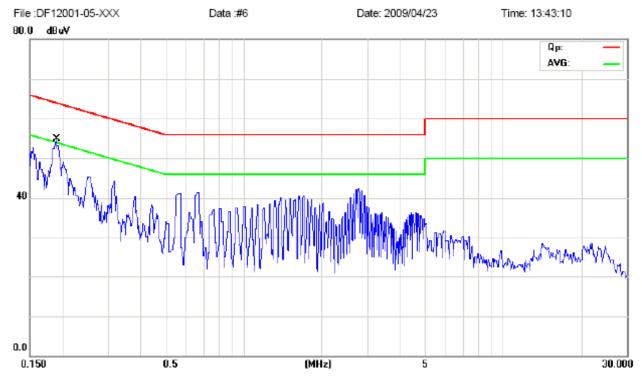
EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass
Please refer to following diagram for individual

### Conducted Emission Measurement



Engavener		Reading		Limi	t	
Frequency (MHz)	Live		Neutral		(dB µ V)	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.189	49.34	32.34			64.06	54.06



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

EUT set Condition: Play USB

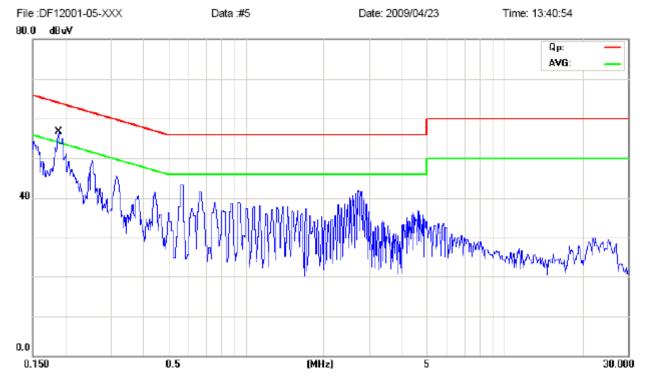
Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

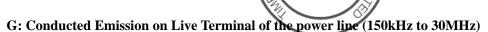
**Results:** Pass

Please refer to following diagram for individual

### Conducted Emission Measurement



Eraguanay		Reading	Limit			
Frequency (MHz)	Live	ve Neutral		$(dB \mu V)$		
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.189		-	50.94	36.34	64.06	54.06



EUT set Condition: Play CF

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass
Please refer to following diagram for individual

#### Conducted Emission Measurement

Fragueney		Reading	Limit			
(MHz)	Frequency		Neutr	al	(dB µ	V)
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.312	42.27	36.27			59.91	49.91
0.560	41.64	36.44			56.00	46.00
1.314	43.53	37.23			56.00	46.00
2.627	43.45	37.75			56.00	46.00

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

**EUT** set Condition: Play CF

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

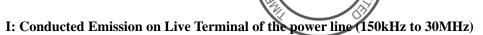
**Results: Pass** 

Please refer to following diagram for individual

### Conducted Emission Measurement

File :DF12001-05-XXX 80.0 dBuV	Data :#12	Date: 2009/04/23	Time: 14:18:00
			Qp: —— AVG: ——
40	A. And Bachandian.		
			PTPPPPPPPPPPPP Vyporky Vapovky
0.0			

Emaguanay		Reading	Limit			
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(IVIIIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.312	-		43.37	36.37	59.91	49.91
0.438			43.40	36.77	57.10	47.10
2.500			44.80	37.80	56.00	46.00



EUT set Condition: Connected to PC

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

#### Conducted Emission Measurement

Fraguanay		Reading	Limit			
Frequency (MHz)	Live	<b>;</b>	Neutral		$(dB \mu V)$	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.314	41.47	35.47			59.85	49.85
0.440	41.11	36.41			57.05	47.05
1.630	43.65	37.25			56.00	46.00
2.636	45.35	37.85			56.00	46.00



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

**EUT** set Condition: Connected to PC

Model No.: ADS-18C-12N 12018GPCU Adaptor used for test

Working Voltage: 120V~ 60Hz

**Results: Pass** 

Please refer to following diagram for individual

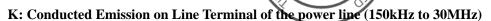
### Conducted Emission Measurement

File:DF1200	01-05-XXX		Data :#8	Date: 2009/0	04/23 T	ime: 13:58:40
40 Mg/		*	Data :#8	*		Qp:   AVG:
1.0	. , ,	W 11 0 Y Y	( ) II I I I I I I I I I I I I I I I I I			
0.150		0.5		(MHz)	5	30.0

Eraguanay		Reading	Limit			
Frequency (MHz)	Live		Neutral		(dB µ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.314		1	43.77	36.37	59.86	49.86
0.439			44.01	36.71	57.08	47.08
1.126			44.85	37.15	56.00	46.00
2.507			46.50	37.90	56.00	46.00

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EUT set Condition: Memory

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

### Conducted Emission Measurement

File :DF12001-05-XXX Data :#2 Date: 2009/04/23 Time: 11:57:26

90.0 dB wV

40

0.0 5 (MHz) 5 30.000

Eraguanav		Reading	Limi	t		
Frequency (MHz)	Live	Live		Neutral		V)
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.193	43.65	29.05			63.91	53.91
0.467	33.94	31.34			56.67	46.67
0.671	39.35	35.25			56.00	46.00
2.822	33.33	22.23			56.00	46.00
4.870	27.25	16.65			56.00	46.00

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

**EUT set Condition:** Memory

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~60Hz

**Results: Pass** 

Please refer to following diagram for individual

### Conducted Emission Measurement

File :DF12001-05-XXX 90.0 dBuV	Data :#1	Date: 2009/04/23	Time: 11:53:54
			Qp: —— AVG: —
			μ̈́Λ
		Markon Markon	When you
0 0.150 0.5			

Enaguanav		Reading	Limi	t		
Frequency Live		Neutral		ral (dB \mu V)		V)
(IVITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.189			48.94	21.94	64.05	54.05
11.327			36.67	22.17	60.00	50.00



EUT set Condition: Play SD

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

### Conducted Emission Measurement

File: DF12001-05-XXX Data:#19 Date: 2009/04/23 Time: 15:00:34

80.0 dBw

40

0.0 S (MHz) 5 30.000

Emagnaman		Reading	Limit			
Frequency (MHz) Liv Quasi-peak		<b>;</b>	Neutral		(dB µ V)	
		Average	Quasi-peak	Average	Quasi-peak	Average
0.665	40.45	35.85			56.00	46.00
2.824	40.63	23.83			56.00	46.00
4.647	34.26	22.06			56.00	46.00

Report No: 0904157 Date: 2009-04-30



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

**EUT set Condition:** Play SD

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

**Results: Pass** 

Please refer to following diagram for individual

### Conducted Emission Measurement

File:DF12001-05-XXX 90.0 dBuV	Data :#20	Date: 2009/04/23	Time: 15:03:52
			Qp: — AVG: —
	TT-VI NAMA HARINAMAN		
W 19 11 9			Thather Manage M
0.0	0.5 (M	Hz) 5	30.00

	Engguenav		Reading	Limi	t		
	Frequency (MHz)	Live		Neutral		(dB µ V)	
		Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
	2.808			35.22	22.92	56.00	46.00
	11.447			40.67	24.87	60.00	50.00



EUT set Condition: Play USB

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

### Conducted Emission Measurement

File :DF12001-05-XXX Data :#3 Date: 2009/04/23 Time: 12:04:43



Eraguanav		Reading	Limit			
Frequency (MHz)	Live		Neutral		(dB µ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.464	35.03	31.83			56.61	46.61
0.666	39.55	35.25			56.00	46.00
2.856	35.04	22.34			56.00	46.00



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

EUT set Condition: Play USB

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

### Conducted Emission Measurement

File :DF12001-05-XXX	Data :#4	Date: 2009/04/23	Time: 13:29:18
90.0 dBuV	P-1/1, 1/4/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	Date: 2003/04/25	Qp:AVG:
M. Mak A.	T 1 T		John May
0.0 0.150 0.5	5 0	MHz) 5	30.00

Eraguanav		Reading	Limit			
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.200			41.25	31.05	63.60	53.60
0.661			39.04	34.84	56.00	46.00
2.781			35.91	24.31	56.00	46.00
2.880			35.15	22.45	56.00	46.00
11.210			41.68	25.68	60.00	50.00

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# Q: Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

**EUT set Condition:** Play CF

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

**Results: Pass** 

Please refer to following diagram for individual

### Conducted Emission Measurement

File:DF12001-05-XXX Data :#15 Date: 2009/04/23 Time: 14:34:23



Fraguanay		Reading		Limi	t	
Frequency (MHz)	Live		Neutral		(dB µ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.190	50.14	51.54			64.04	54.04



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

EUT set Condition: Play CF

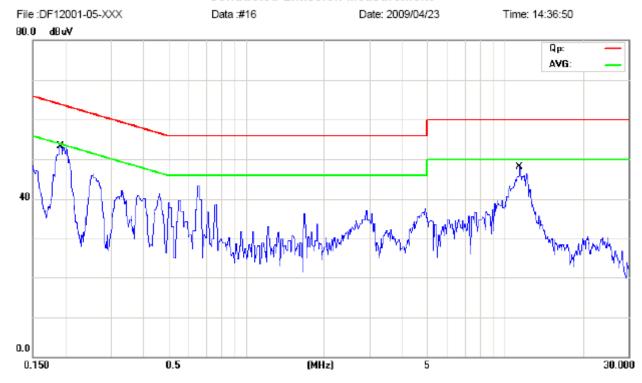
Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

### Conducted Emission Measurement



	Engagonav		Reading	Limi	t		
	Frequency (MHz)	Live		Neutral		(dB \mu V)	
		Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
	0.190			48.64	21.54	64.01	54.01
	11.446			36.07	21.57	60.00	50.00



# S: Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connect to PC

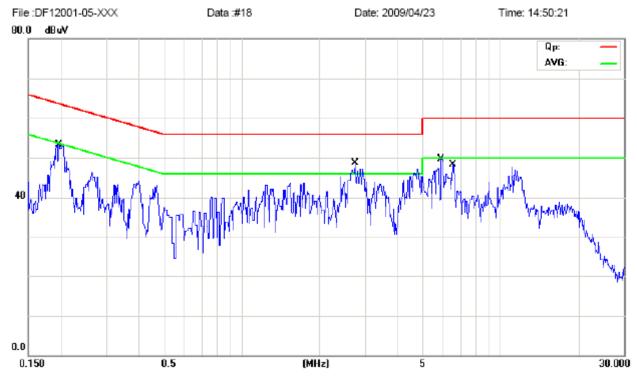
Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Working Voltage: 120V~ 60Hz

**Results:** Pass

Please refer to following diagram for individual

### Conducted Emission Measurement



Eroguanav		Reading	Limit			
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MITZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.195	42.65	31.05			63.80	53.80
2.730	35.49	22.29			56.00	46.00
5.904	31.72	19.02			60.00	50.00
6.539	31.55	19.65			60.00	50.00



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

**EUT** set Condition: Connect to PC

Adaptor used for test Model No.: XKD-C2000IC5.0-12W

Working Voltage: 120V~ 60Hz

**Results: Pass** 

Please refer to following diagram for individual

### Conducted Emission Measurement

File :DF	12001-05-XXX	Data :#1	7 D	ate: 2009/04/23	Time: 14:44:57
90.0	dB uV				Qp: —
40					The state of the s
					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
0.1 <b>5</b> 0		0.5	(MHz)	5	30.0

Eroguanav		Reading	Limit			
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MITZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.194			42.65	29.65	63.83	53.83
0.381			42.27	41.45	58.26	48.26
2.758			34.30	18.80	56.00	46.00
2.883			40.89	26.60	56.00	46.00
11.609			35.39	36.62	60.00	50.00

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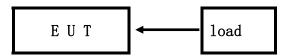
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#### 5.0 Radiated Disturbance Test

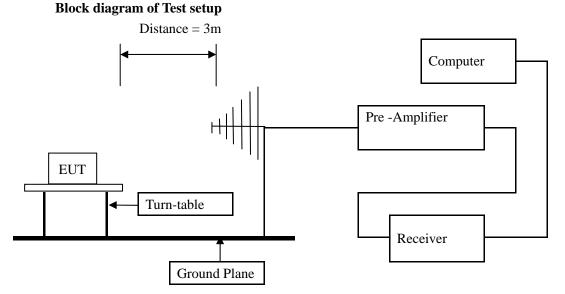
#### 5.1 Schematics of the test



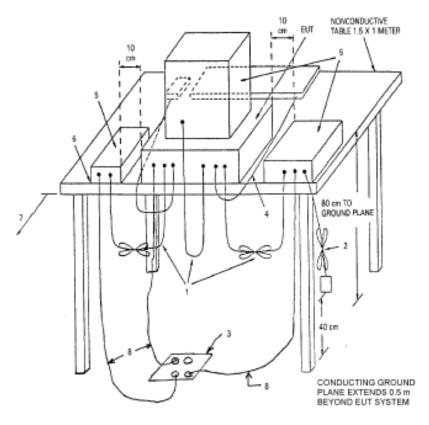
### 5.2 Test Method and test Procedure:

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.

Test Voltage: 120V, 60Hz







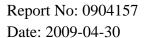
### 5.3 Radiated Emission Limit

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.





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

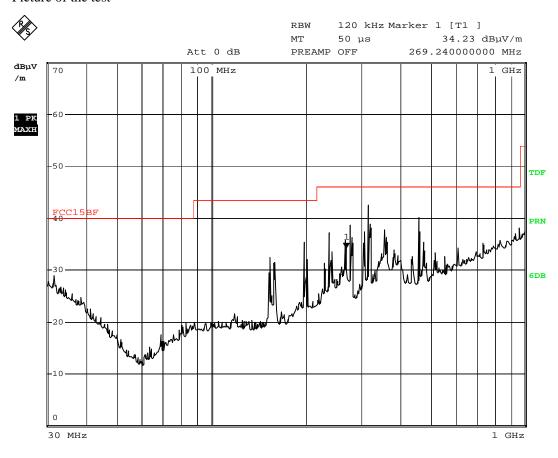
EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Comment: V

Date: 28.APR.2009 18:53:45

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
153.66	34.2	Н	43.5
237.88	38.2	Н	46.0
277.80	40.4	Н	46.0
317.48	40.2	Н	46.0

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

EUT set Condition: Memory

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

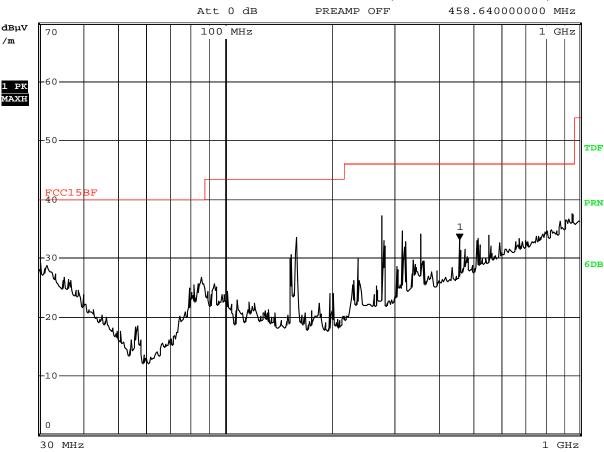
Please refer to following diagram for individual

Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1]

MT 50  $\mu s$  33.09  $dB\mu V/m$ 



Comment: V

Date: 28.APR.2009 18:57:25

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.80	39.8	V	46.0

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

EUT set Condition: Play SD

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

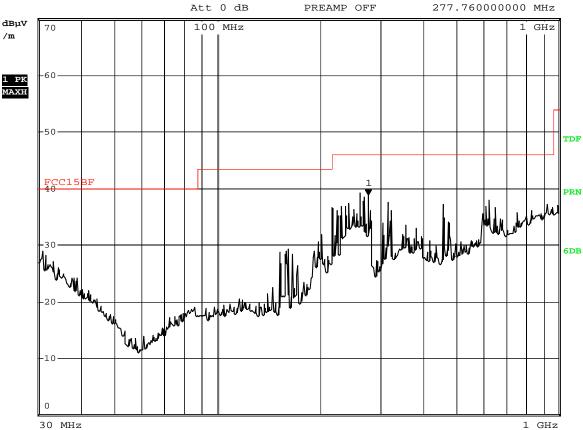
Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1 ]

MT 50 µs 38.77 dBµV/m

PREAMP OFF 277.760000000 MHz



Comment: V

Date: 28.APR.2009 18:40:21

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
217.48	36.4	Н	46.0
268.64	39.3	Н	46.0

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# Radiated Disturbance In Vertical (30MHz --- 1000MHz)

**EUT set Condition:** Play SD

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

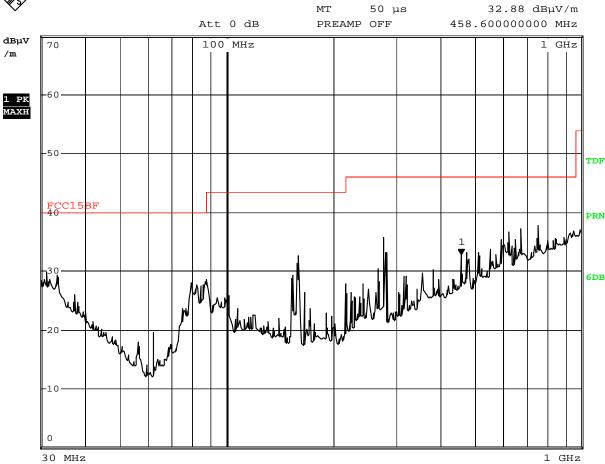
Level: Class B **Results: PASS** 

Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1 ]

50 µs МТ



Comment: V

Date: 28.APR.2009 18:38:43

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.76	35.70	V	46.00

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

EUT set Condition: Play CF

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

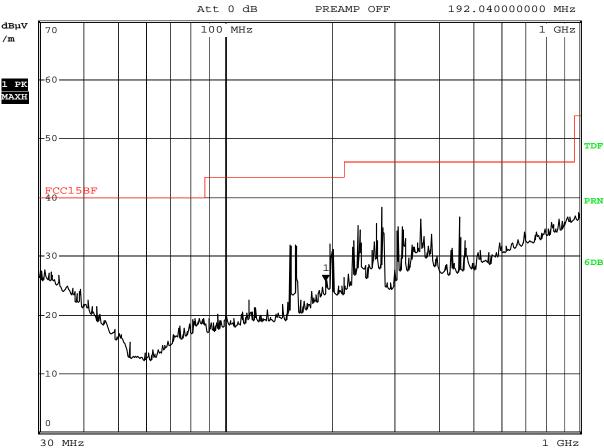
Please refer to following diagram for individual

Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1 ]

MT 50  $\mu s$  25.79  $dB\mu V/m$ 



Comment: V

Date: 28.APR.2009 18:32:22

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.84	38.6	Н	46.00

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1 GHz

Report No: 0904157 Date: 2009-04-30



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

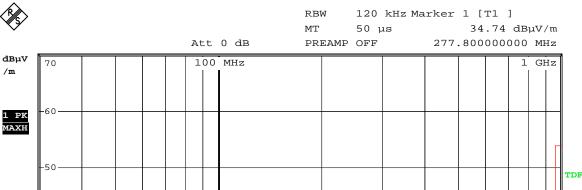
EUT set Condition: Play CF

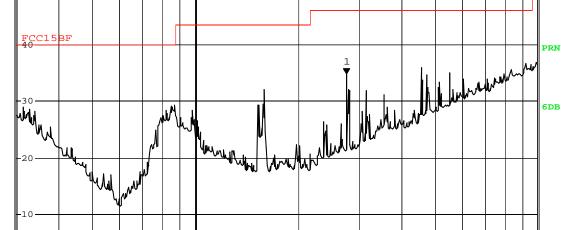
Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test





30 MHz

Comment: V

Date: 28.APR.2009 18:34:20

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.80	34.70	V	46.00
458.60	35.90	V	46.00

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

EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

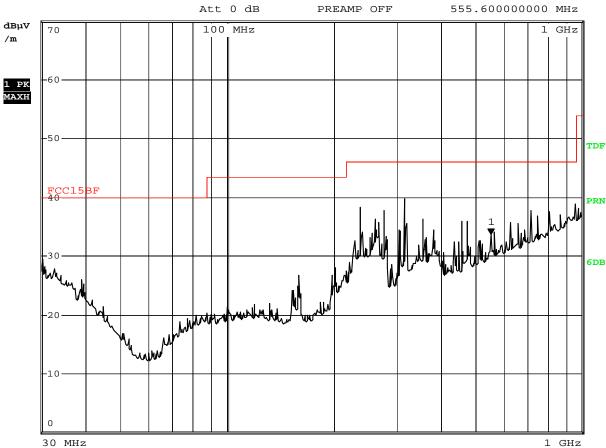
Please refer to following diagram for individual

Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1 ]

MT 50  $\mu s$  33.81  $dB\mu V/m$ 



Comment: V

Date: 28.APR.2009 18:01:47

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
238.12	38.31	Н	46.00

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## Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Play USB

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B **Results: PASS** 

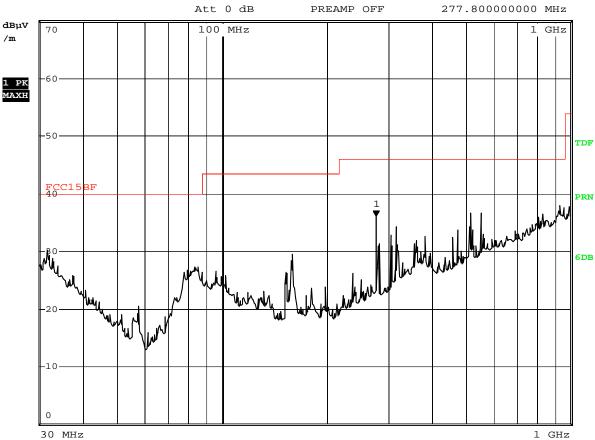
Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1 ]

36.18 dBµV/m MT50 µs





Comment: V

28.APR.2009 17:54:59 Date:

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	$Limit@3m\ (dB\mu V/m)$
277.80	37.2	V	46.00
555.6	36.8	V	46.00

The report refers only to the sample tested and does not apply to the bulk.



## I Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Connect to PC

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

Please refer to following diagram for individual

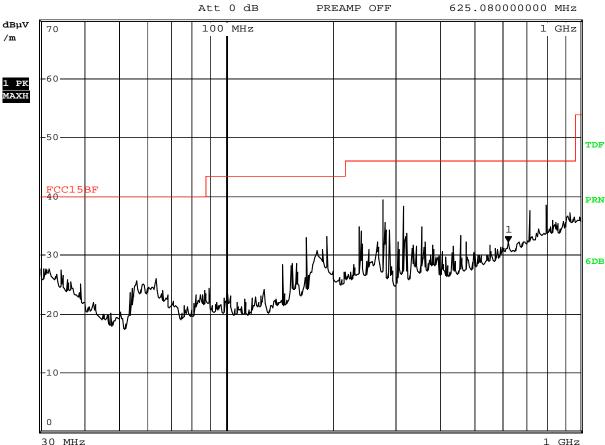
Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1 ]

MT 50 μs

 $32.16~dB\mu V/m$  625.080000000 MHz



Comment: V

Date: 28.APR.2009 19:13:52

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.16	39.4	Н	46.00

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# J Radiated Disturbance In Vertical (30MHz----1000MHz)

EUT set Condition: Connect to PC

Adaptor used for test Model No.: ADS-18C-12N 12018GPCU

Level: Class B
Results: PASS

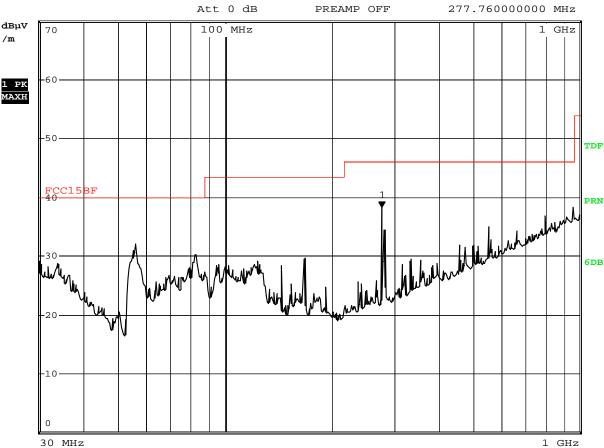
Please refer to following diagram for individual

Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1 ]

MT 50  $\mu s$  38.30  $dB\mu V/m$ 



Comment: V

Date: 28.APR.2009 19:16:39

Frequency (MF	Iz) Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m (dBµV/m)
277.76	39.30	V	46.00

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## K Radiated Disturbance In Horizontal (30MHz----1000MHz)

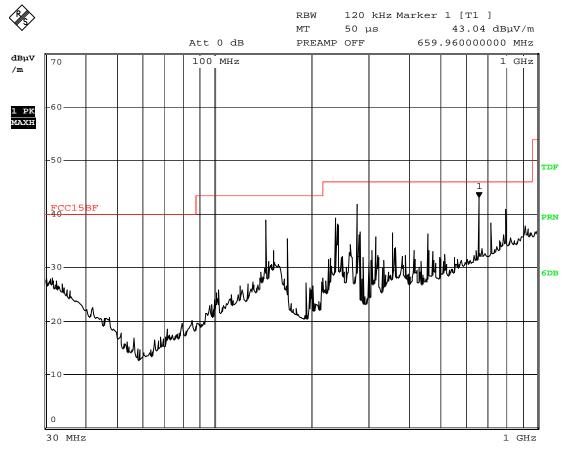
EUT set Condition: Connect to PC

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Comment: V

Date: 28.APR.2009 17:21:56

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
144.00	39.2	Н	43.50
277.76	40.9	Н	46.00
659.96	42.8	Н	46.00
800.00	40.9	Н	46.00

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## L Radiated Disturbance In Vertical (30MHz---1000MHz)

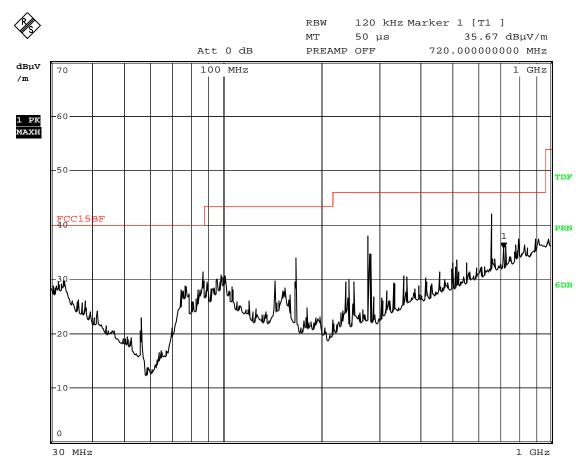
EUT set Condition: Connect to PC

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Comment: V

Date: 28.APR.2009 17:15:26

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
166.72	33.9	V	43.50
277.16	37.8	V	46.00
660.00	40.8	V	46.00

The report refers only to the sample tested and does not apply to the bulk.

1 GHz

Report No: 0904157 Date: 2009-04-30



#### M Radiated Disturbance In Horizontal (30MHz----1000MHz)

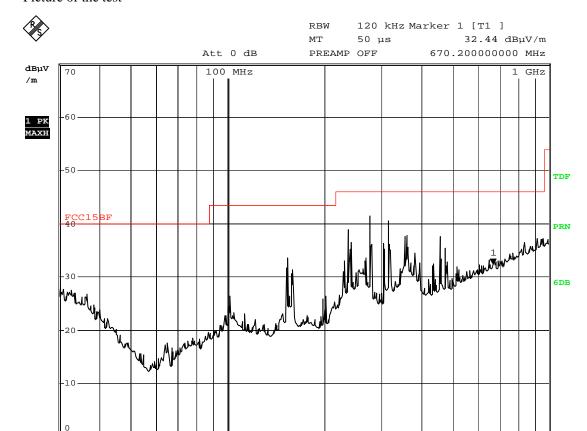
EUT set Condition: Memory

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 28.APR.2009 16:50:49

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
153.56	34.2	Н	43.50
237.88	38.2	Н	46.00
277.80	40.4	Н	46.00
317.48	40.2	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.



# N Radiated Disturbance In Vertical (30MHz----1000MHz)

EUT set Condition: Memory

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

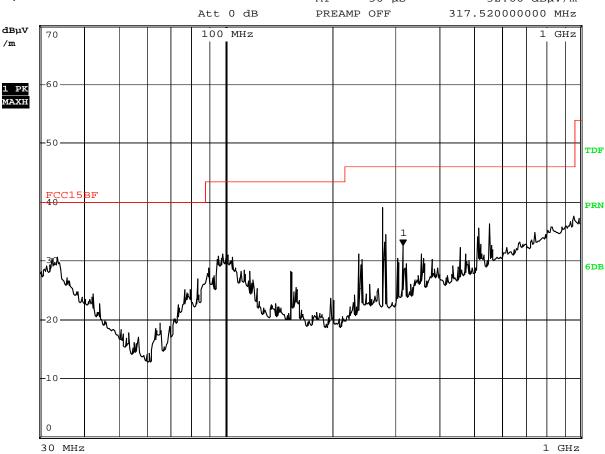
Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



RBW 120 kHz Marker 1 [T1 ] MT 50 μs 32.66 dBμV/m



Date: 28.APR.2009 16:57:48

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
277.80	39.80	V	46.00

The report refers only to the sample tested and does not apply to the bulk.



#### O Radiated Disturbance In Horizontal (30MHz----1000MHz)

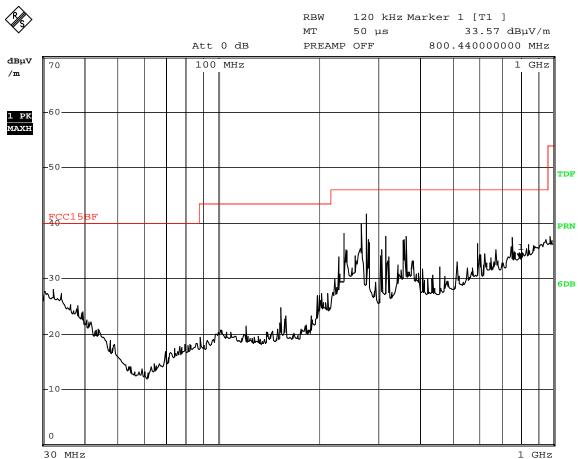
EUT set Condition: Play SD

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Comment: V

Date: 28.APR.2009 17:30:36

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
238.08	38.1	Н	46.00
267.88	39.7	Н	46.00
277.72	40.6	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.

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## P Radiated Disturbance In Vertical (30MHz---1000MHz)

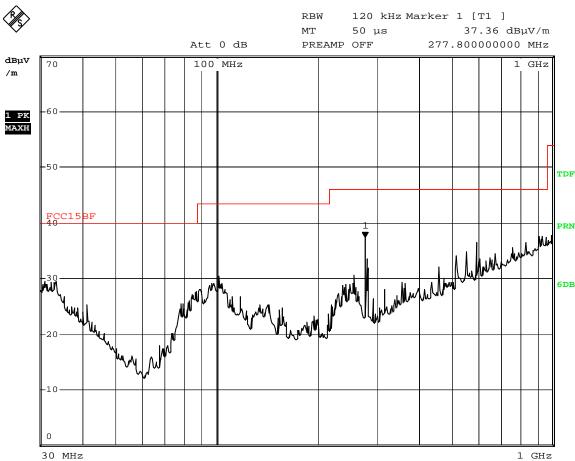
EUT set Condition: Play SD

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

Please refer to following diagram for individual

Picture of the test



Comment: V

Date: 28.APR.2009 17:34:34

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
277.80	37.4	V	46.00

The report refers only to the sample tested and does not apply to the bulk.



# Q Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Play USB

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

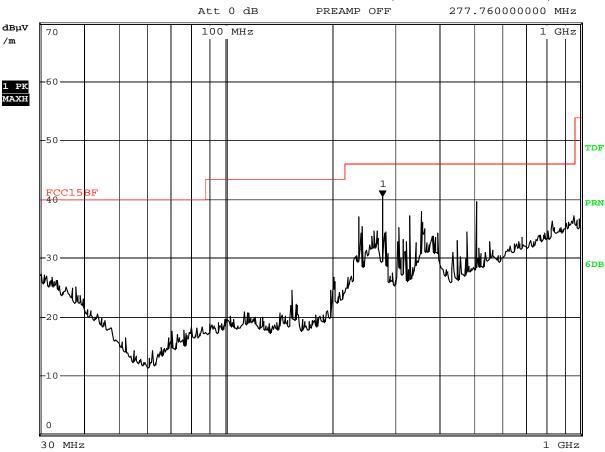
Please refer to following diagram for individual

Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1]

MT 50  $\mu$ s 40.58  $dB\mu V/m$ 



Comment: V

Date: 28.APR.2009 17:47:24

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.76	40.5	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.

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## R Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Play USB

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

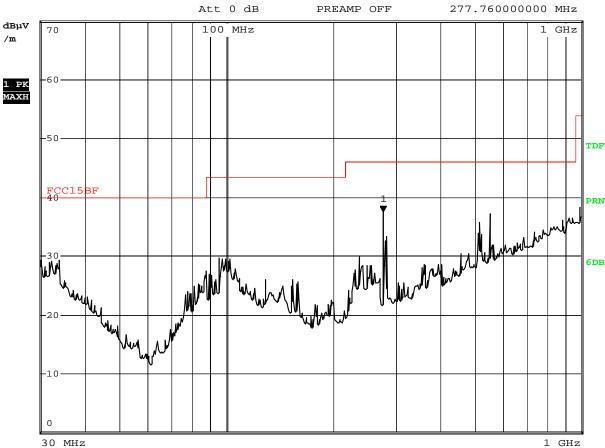
Please refer to following diagram for individual

Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1]

MT 50  $\mu s$  37.58  $dB\mu V/m$ 



Comment: V

Date: 28.APR.2009 17:49:23

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.76	37.6	V	46.00

The report refers only to the sample tested and does not apply to the bulk.

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## S Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Play CF

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

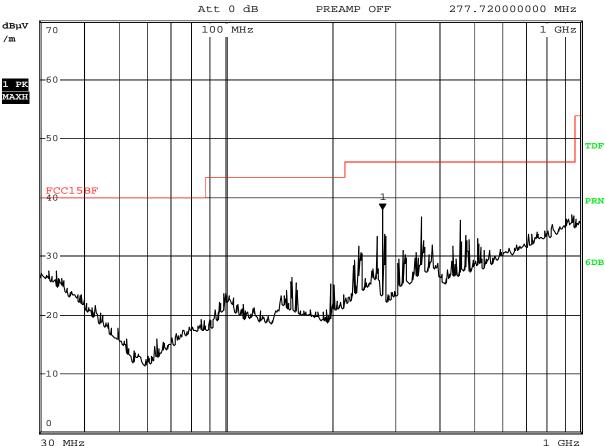
Please refer to following diagram for individual

Picture of the test



RBW 120 kHz Marker 1 [T1 ]

MT 50 μs 37.96 dBμV/m



Comment: V

Date: 28.APR.2009 17:44:10

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.72	38.2	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.

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#### T Radiated Disturbance In Vertical (30MHz---1000MHz

EUT set Condition: Play CF

Adaptor used for test Model No.: XKD-C1500IC12.0-18C-US

Level: Class B
Results: PASS

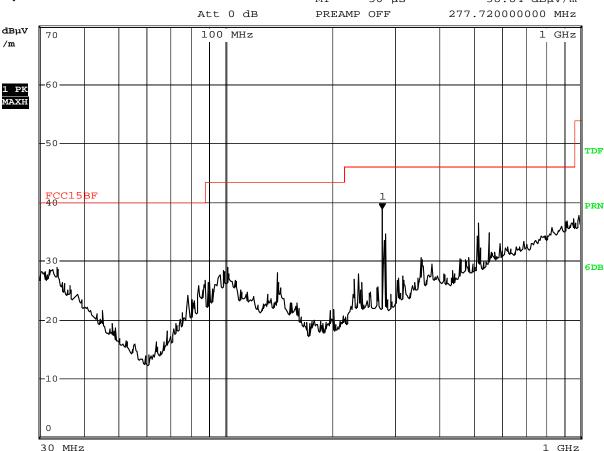
Please refer to following diagram for individual

Picture of the test

**%** 

RBW 120 kHz Marker 1 [T1 ]

MT 50  $\mu s$  38.84  $dB\mu V/m$ 



Comment: V

Date: 28.APR.2009 17:40:25

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
277.72	38.4	V	46.00

The report refers only to the sample tested and does not apply to the bulk.

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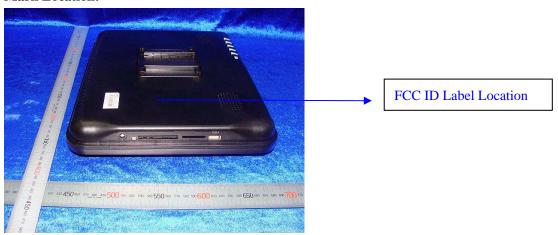
#### 6.0 FCC ID Label

# FCC ID: V37-6226-121INCH

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:**





# Photo of testing

#### Conducted test View—

#### Connect to PC



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#### 7.2 Radiated emission test view--

Connect to PC

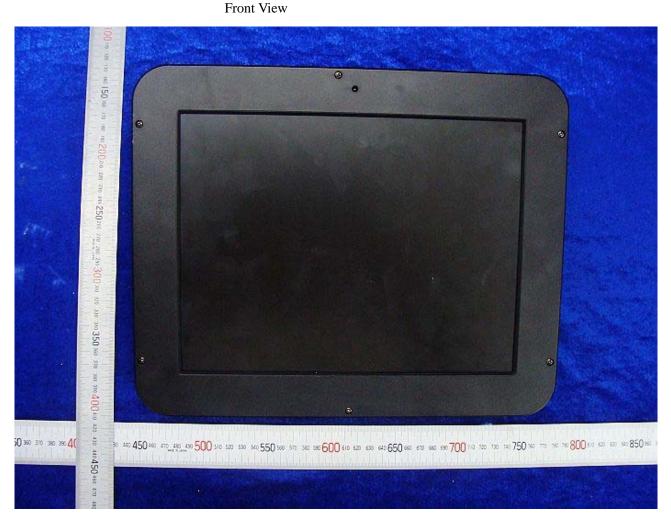


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#### 7.3 Photo for the EUT



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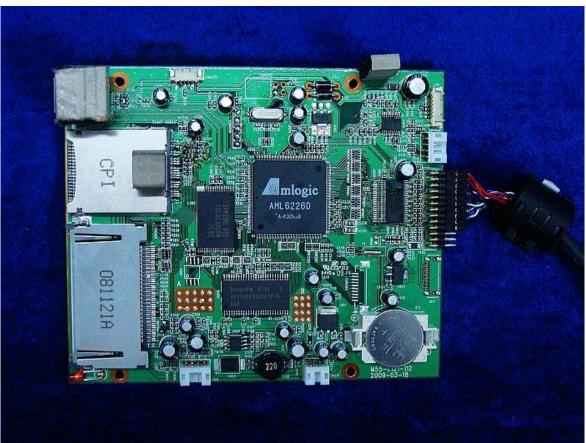
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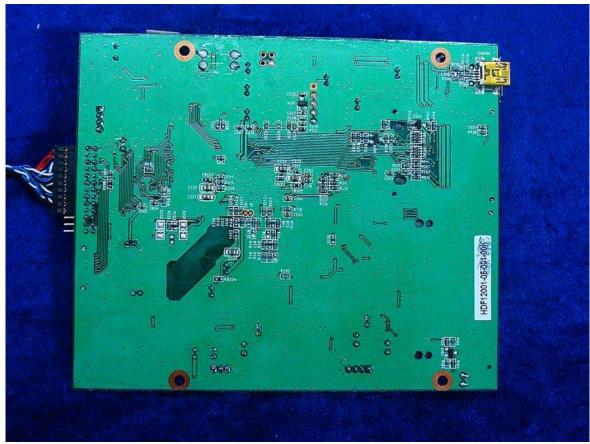
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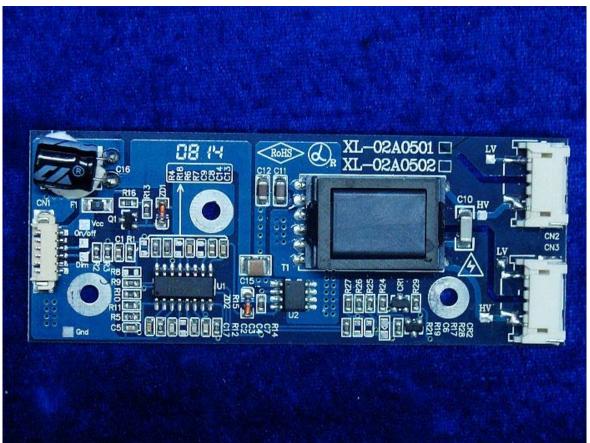
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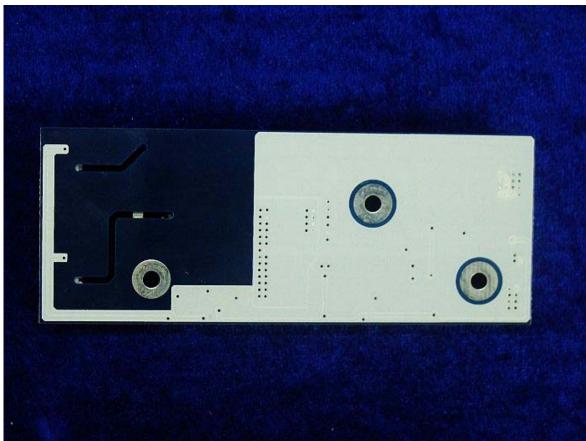
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#### -End of the report-