







# ISO/IEC17025 Accredited Lab.

Report No: FCC 1006362 File reference No: 2010-07-02

Applicant: WIN ACCORD LTD.

Product: 10.4 Digital Photo Frame

Brand Name: N/A

Model No: DF10411-13-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

Peny Tang

**Terry Tong** 

Manager

Dated: July 02, 2010

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: 2010-07-02



# **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.

# VCCI- Registration No.: R-3015 and C-3332

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

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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** 

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

# 1.3 Description of EUT

Product: 10.4 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: DF10411-13-XXX (X=A-Z,0-9,a-z)

Additional Model Number: --

Rating: Input: 5V, 2A

Power supply information: Manufacturer: E-TEK Electronic Manufactory Ltd Model: ZDA050200US; Input: 100-240V~, 50/60Hz; Output: DC5V 2A;

Output cable: type 2468, with length of 1.9m

# 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration

2010-06-24 to 2010-07-02

# 1.6 Test Uncertainty

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

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# 1.7 Test Engineer

The sample tested by

Print Name: Paul 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	ESH3	860905/006	RS	2010.5.14	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2010.5.14	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2010.5.14	1Year
LISN	ESH3-Z5	100294	RS	2010.5.14	1Year
LISN	ESH3-Z5	100253	RS	2010.5.14	1Year

# 2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESVD	100008	RS	2010.5.14	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	НР	2010.5.14	1Year
Amplifier	8447D	2727A05017	HP	2010.5.14	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2010.5.14	1Year

# 2.3 Auxiliary Equipment

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
PC	8434		IBM		
LCD Monitor	ST2310WAf		DELL		
LCD Monitor	Q5T4		BENQ		
PC	PCG-6Q2T		VAIO		
Mouse			ASUS		
Mouse	HM5172		Zaidtek		
SD Card	2GB		Kingston		

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#### 2.4 I/O Cable

	Cable No.	Port	Connector Type	Cable Type	Cable Length
	1	VGA	VGA	Unshielded	1.5
Ī	2	AC	IEC	Unshielded	1.5
Ī	3	AC	IEC	Unshielded	2.0

#### 3.0 **Technical Details**

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

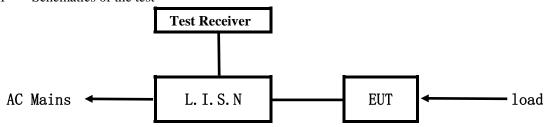
#### 3.2 Test Standards

FCC Part 15 Subpart B: 2008



### 4.0 Conducted Power line Test

### 4.1 Schematics of the test

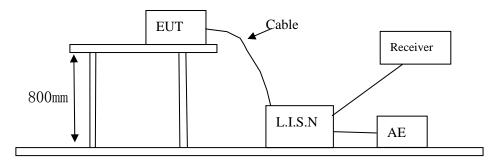


**EUT: Equipment Under Test** 

### 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



#### 4.3 Power line conducted Emission Limit

Eraguanay (MHz)	Class A Limits 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.

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# A: Conducted Emission on Live Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

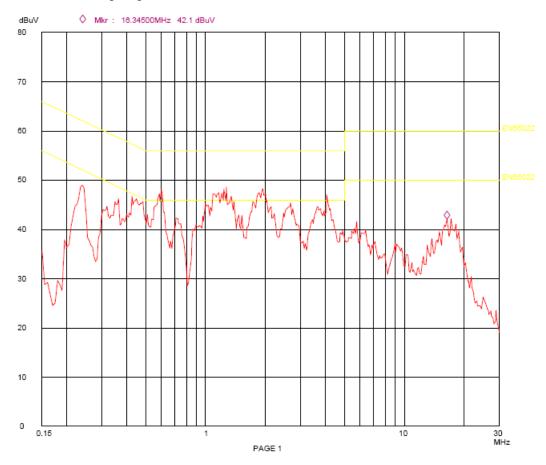
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play memory** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.180	Live	36.40	24.40	64.50	54.50
0.275	Live	33.10	22.10	61.00	51.00
0.460	Live	33.30	23.70	56.70	56.70
1.265	Live	29.70	21.40	56.00	46.00
3.850	Live	30.50	21.70	56.00	46.00
16.590	Live	31.50	23.00	60.00	50.00

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# B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

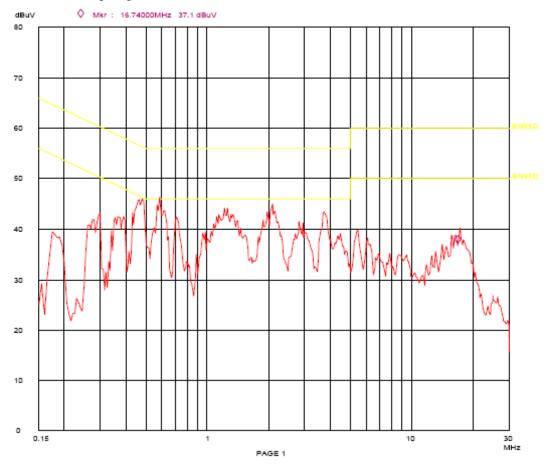
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play memory** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	$Reading(dB\mu V)$		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.180	Neutral	35.70	28.00	64.50	54.50
0.485	Neutral	41.20	27.50	56.30	46.30
0.585	Neutral	41.50	28.30	56.00	46.00
1.230	Neutral	37.80	26.00	56.00	46.00
2.090	Neutral	37.70	26.30	56.00	46.00
3.765	Neutral	37.60	24.60	56.00	46.00

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# C: Conducted Emission on Live Terminal (150kHz to 30MHz)

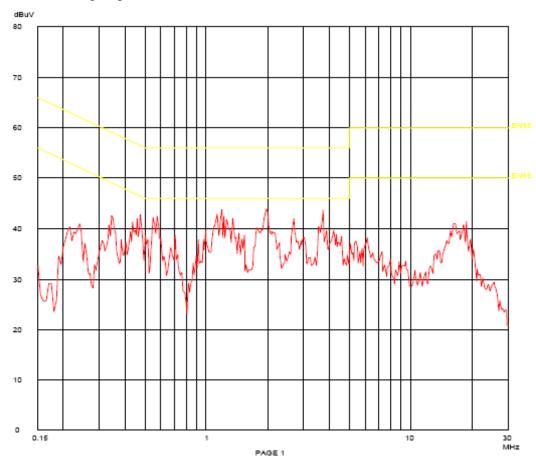
**EUT Operating Environment** 

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB Equipment Level: Class B

**Results: Pass** 

Please refer to following diagram for individual



Frequency	cy Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.355	Live	36.30	23.70	58.80	48.80
0.475	Live	35.20	23.90	56.40	46.40
1.220	Live	35.30	25.10	56.00	46.00
2.200	Live	35.00	25.50	56.00	46.00
3.730	Live	32.70	23.20	56.00	46.00
16.375	Live	35.20	27.30	60.00	50.00

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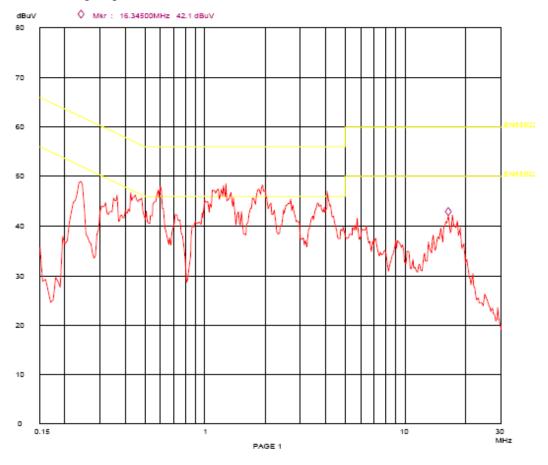
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB Equipment Level: Class B

**EUT Operating Environment** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.235	Neutral	44.00	28.90	62.30	52.30
0.435	Neutral	41.80	29.50	57.20	47.20
0.575	Neutral	41.00	28.80	56.00	46.00
1.235	Neutral	42.20	29.30	56.00	46.00
1.945	Neutral	41.40	28.70	56.00	46.00
4.075	Neutral	38.40	26.30	56.00	46.00

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# E: Conducted Emission on Live Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

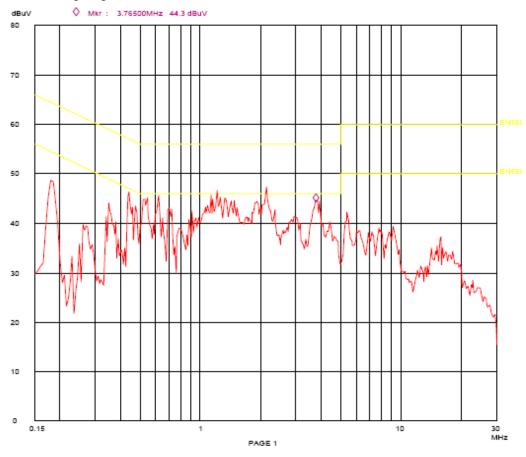
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.180	Live	43.00	32.40	64.50	54.50
0.440	Live	41.30	29.80	57.10	47.10
1.130	Live	36.40	24.60	56.00	46.00
2.100	Live	37.60	26.00	56.00	46.00
3.765	Live	37.30	26.30	56.00	46.00
15.820	Live	29.70	23.50	60.00	50.00

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# F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

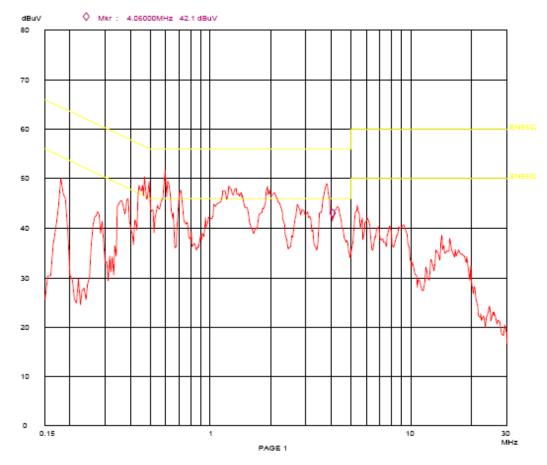
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	$Reading(dB\mu V)$		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.180	Neutral	46.00	35.50	64.50	54.50
0.465	Neutral	42.90	32.00	56.60	46.60
0.620	Neutral	46.80	36.80	56.00	46.00
0.715	Neutral	44.10	35.00	56.00	46.00
1.250	Neutral	43.50	34.20	56.00	46.00
3.795	Neutral	43.60	33.90	56.00	46.00

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# G: Conducted Emission on Live Terminal (150kHz to 30MHz)

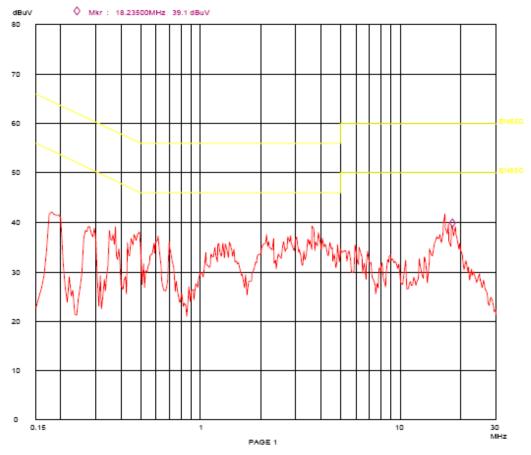
**EUT Operating Environment** 

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play SD Equipment Level: Class B** 

**Results: Pass** 

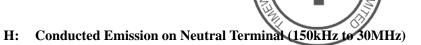
Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.180	Live	37.20	26.30	64.50	54.50
0.275	Live	34.00	22.20	61.00	51.00
0.490	Live	31.20	19.70	56.20	46.20
2.140	Live	31.50	21.90	56.00	46.00
3.735	Live	30.80	21.80	56.00	46.00
16.640	Live	31.50	23.30	60.00	50.00

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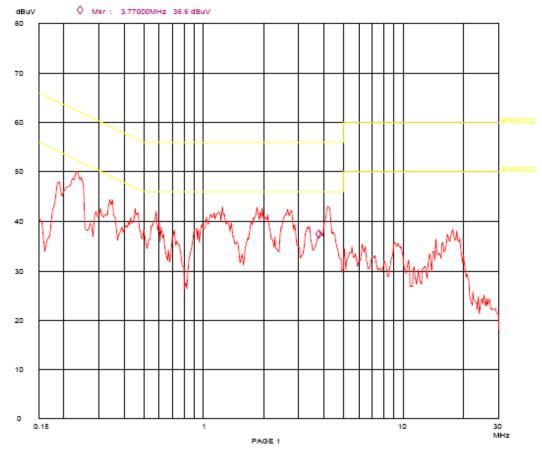
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play SD Equipment Level: Class B** 

**EUT Operating Environment** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.230	Neutral	40.70	26.40	62.40	52.40
1.260	Neutral	36.90	25.60	56.00	46.00
1.905	Neutral	35.50	24.60	56.00	46.00
2.755	Neutral	35.10	23.70	56.00	46.00
4.405	Neutral	34.00	22.50	56.00	46.00
18.330	Neutral	33.10	22.90	60.00	50.00

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#### 5.0 Radiated Disturbance Test

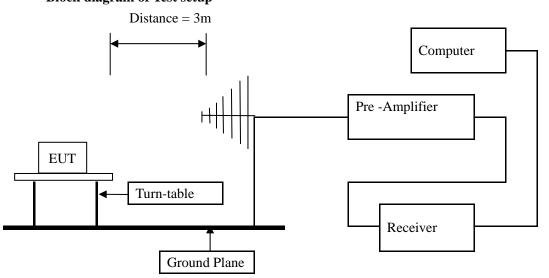
#### 5.1 Schematics of the test



### 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.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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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Report No: 1006362 Date: 2010-07-02



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

# **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play memory** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
180.810	33.63	Н	43.50
218.948	28.02	Н	46.00
368.901	39.94	Н	46.00
202.810	36.88	Н	43.50
282.200	39.47	Н	46.00
131.850	31.26	Н	43.50

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

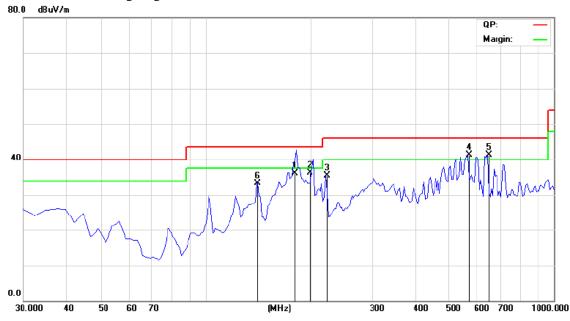
# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play memory** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
180.714	36.18	V	43.50
198.997	36.38	V	43.50
221.575	35.46	V	46.00
565.925	41.37	V	46.00
645.950	41.27	V	46.00
141.550	33.30	V	43.50

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



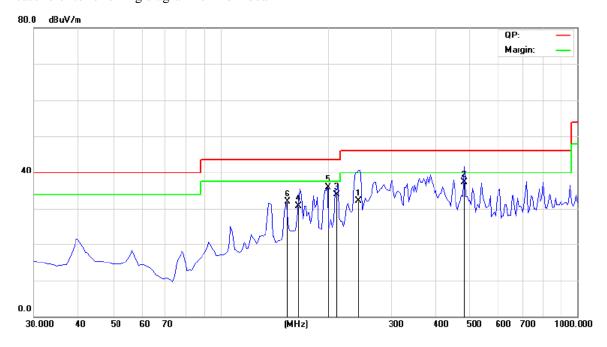
# C: Radiated Disturbance (30MHz----1000MHz)

# **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB Equipment Level: Class B

Results: Pass



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
243.340	32.01	Н	46.00
480.001	37.35	Н	46.00
210.740	33.85	Н	43.50
165.727	30.75	Н	43.50
199.750	35.83	Н	43.50
153.675	31.87	Н	43.50

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



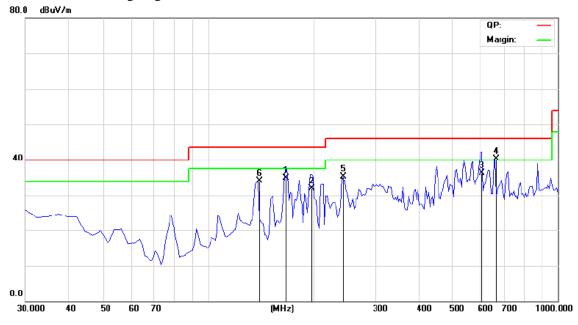
# D: Radiated Disturbance (30MHz----1000MHz)

# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB Equipment Level: Class B

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
166.721	34.98	V	43.50
196.009	31.90	V	43.50
603.020	36.21	V	46.00
665.350	40.24	V	46.00
243.400	35.37	V	46.00
139.125	34.14	V	43.50

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



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

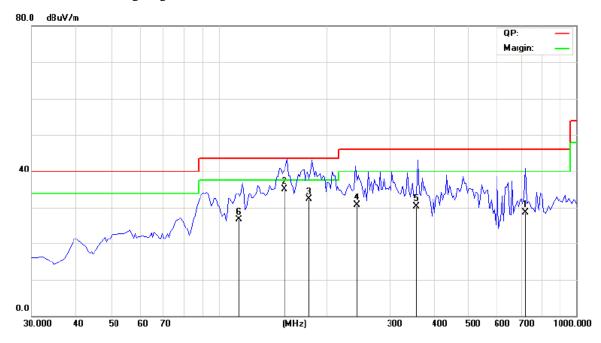
# **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition:** Connect to PC

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
720.064	28.62	Н	46.00
153.120	35.11	Н	43.50
178.107	32.26	Н	43.50
241.859	30.74	Н	46.00
356.160	30.23	Н	46.00
113.316	26.78	Н	43.50

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



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

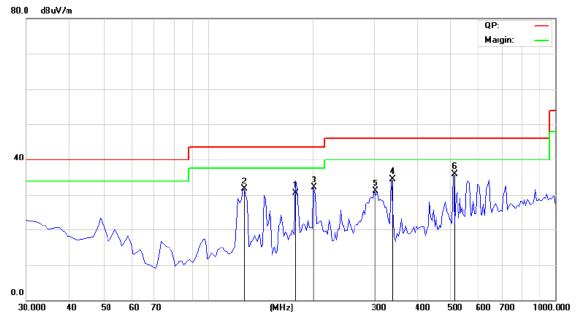
# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
178.971	30.60	V	43.50
127.000	31.70	V	43.50
202.175	32.08	V	43.50
337.975	34.43	V	46.00
301.600	31.05	V	46.00
510.150	35.93	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



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

# **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play SD Equipment Level: Class B

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
144.550	30.96	Н	43.50
178.970	35.20	Н	43.50
373.710	38.66	Н	46.00
716.775	40.96	Н	46.00
674.589	34.04	Н	46.00
202.810	35.61	Н	43.50

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



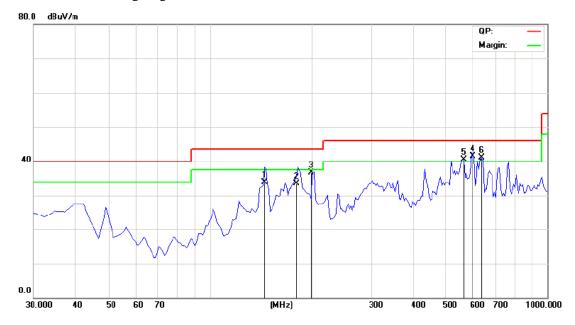
# H: Radiated Disturbance (30MHz----1000MHz)

# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play SD Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
144.510	33.88	V	43.50
180.315	33.51	V	43.50
198.995	36.71	V	43.50
597.756	41.45	V	46.00
561.075	40.45	V	46.00
638.675	41.14	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

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### 6.0 FCC Label

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: On the product body

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- 7.0 Photo of testing
- Conducted test View--7.1



#### 7.2 Radiated emission test view--



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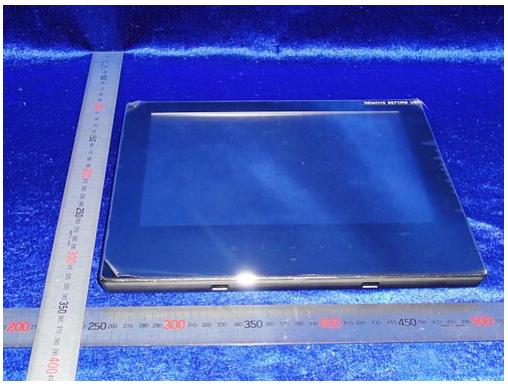
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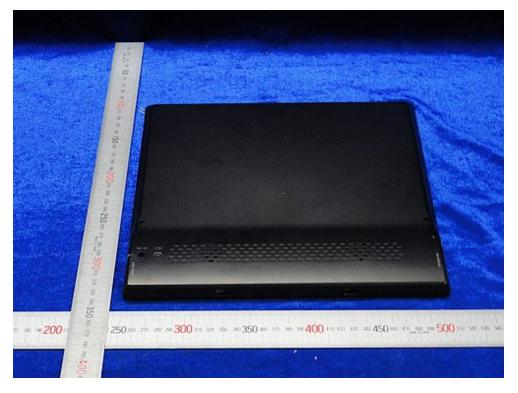
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# 7.3 Photo for the EUT





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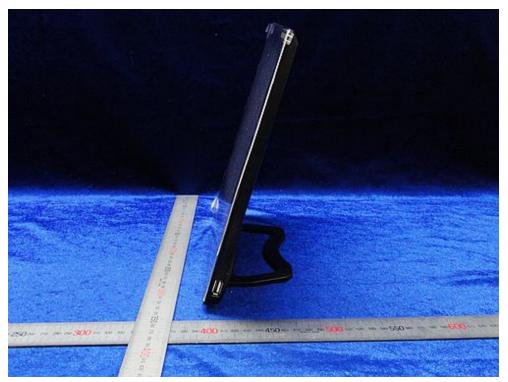
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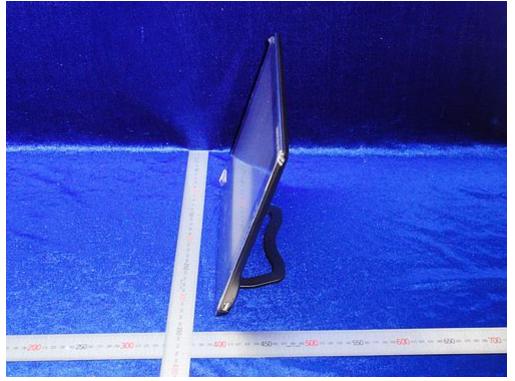
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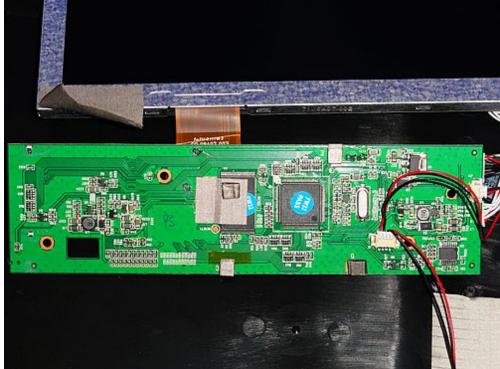
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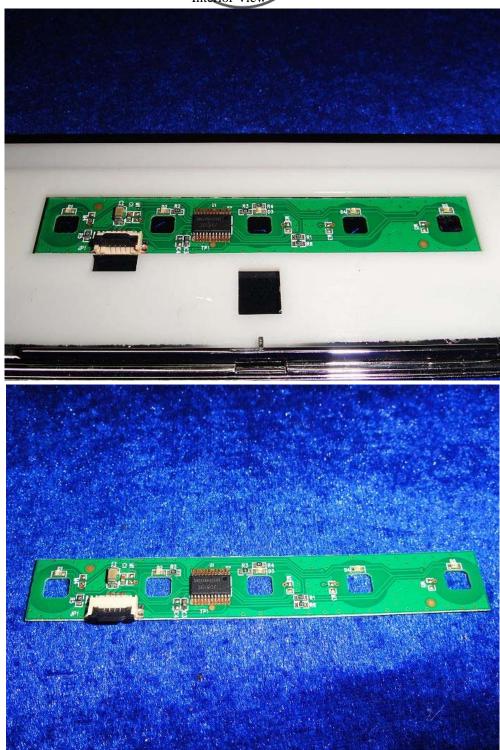
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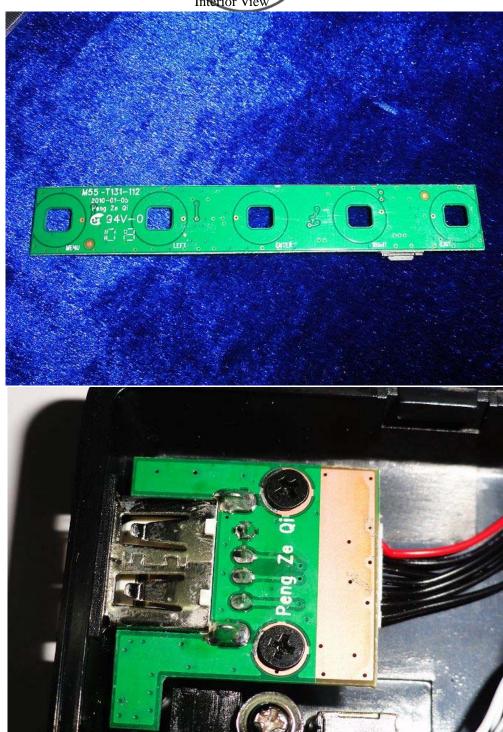
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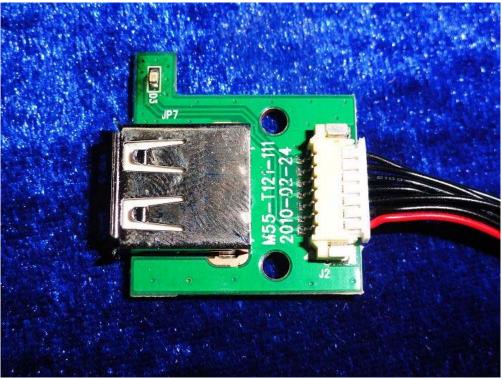
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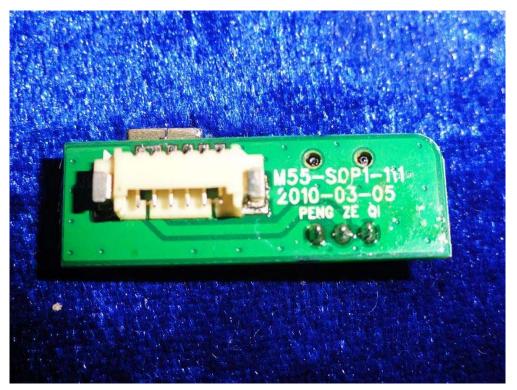
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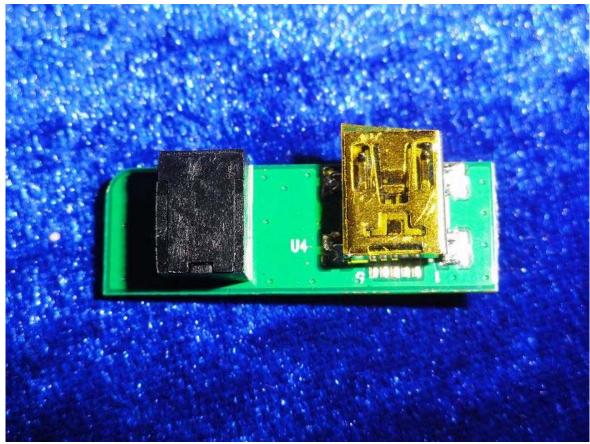
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-End of the report-

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