



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 1006401

File reference No: 2010-08-04

Applicant: WIN ACCORD LTD.

Product: 7DW Digital Photo Frame

Brand Name: N/A

Model No: DF07114-13-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

Terry Tong

Manager

Dated: August 04,2010

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



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: 7DW 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: DF07114-13-XXX(X=A-Z,0-9,a-z)
Additional Model Number: --
Rating: Input: 5V, 1.5A
Power Supply Information: Model: ZDA050150US; Iuput: 100-240V~, 50/60Hz., 0.35A;
Output: DC5V, 1.5A

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2010-06-30 to 2010-08-04

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 cursive script that reads 'Paul Tang'.

Print Name: Paul Tang



2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2010.5.14	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2010.5.14	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2010.5.14	1 Year
LISN	ESH3-Z5	100294	RS	2010.5.14	1 Year
LISN	ESH3-Z5	100253	RS	2010.5.14	1 Year
LISN	LS16C	10010947251	AFJ	2010.5.14	1 Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2010.5.14	1 Year

2.2 Radiated electromagnetic disturbance test

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

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
PC	8434	--	IBM	--	--
LCD Monitor	Q5T4	--	BENQ	--	--
Printer	LaserJet 1022	--	HP	--	--
Mouse	HM5172	--	Zaidtek	--	--
SD Card	2GB	--	Kingston	--	--
USB	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
2	AC	IEC	Unshielded	1.5
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

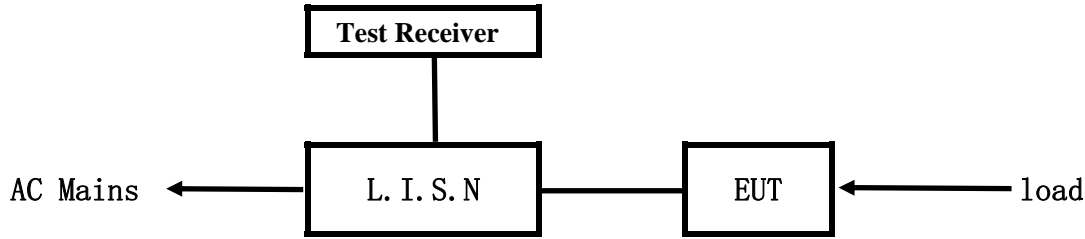
FCC Part 15 Subpart B: 2008

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4.0 Conducted Power line Test

4.1 Schematics of the test



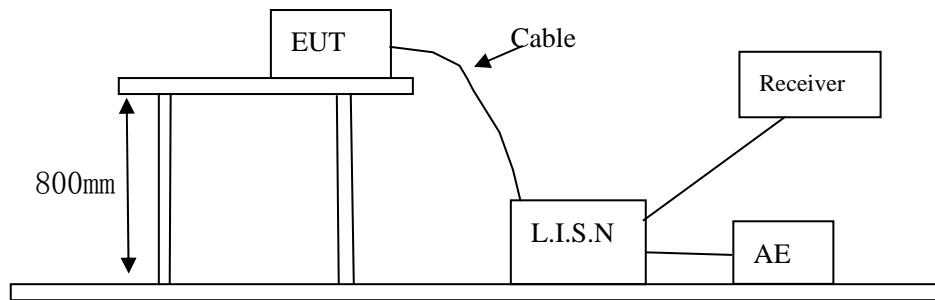
EUT: Equipment Under Test

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.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	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:
- *decreasing linearly with logarithm of frequency.
 - 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

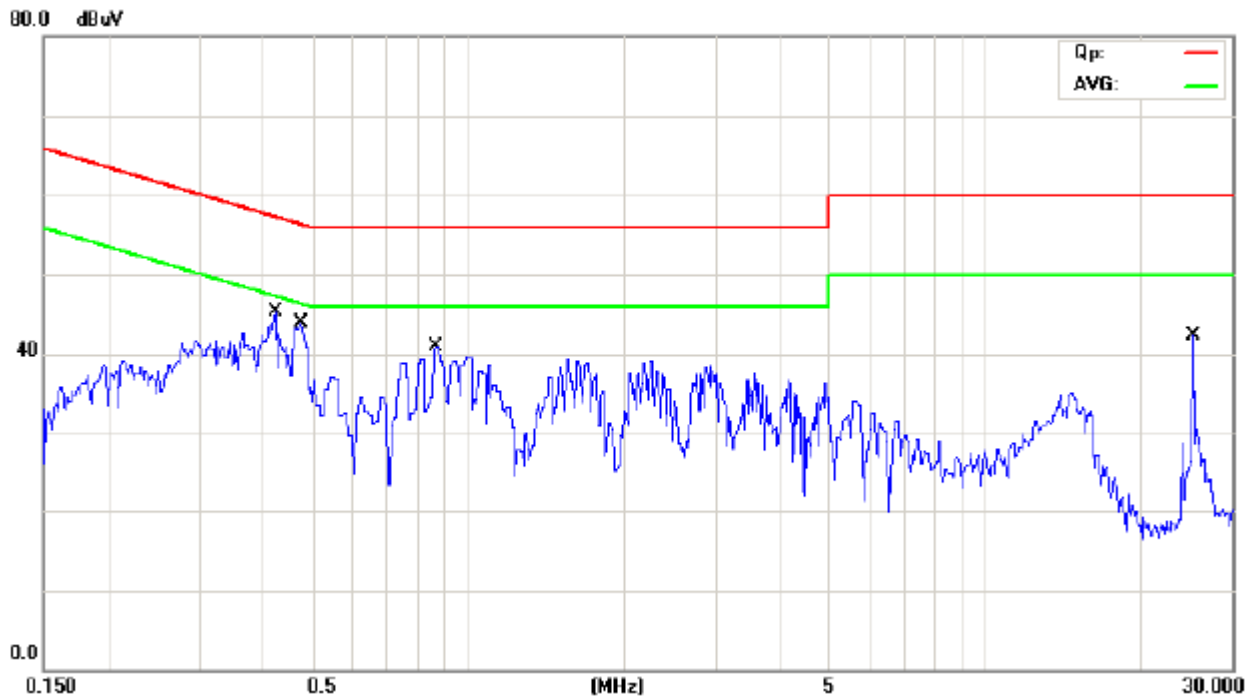
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play memory

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.4215	Live	35.59	26.39	57.42	47.42
0.4705	Live	39.34	27.54	56.51	46.51
0.8644	Live	33.26	29.36	56.00	46.00
25.1752	Live	25.80	22.30	60.00	50.00

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

EUT Operating Environment

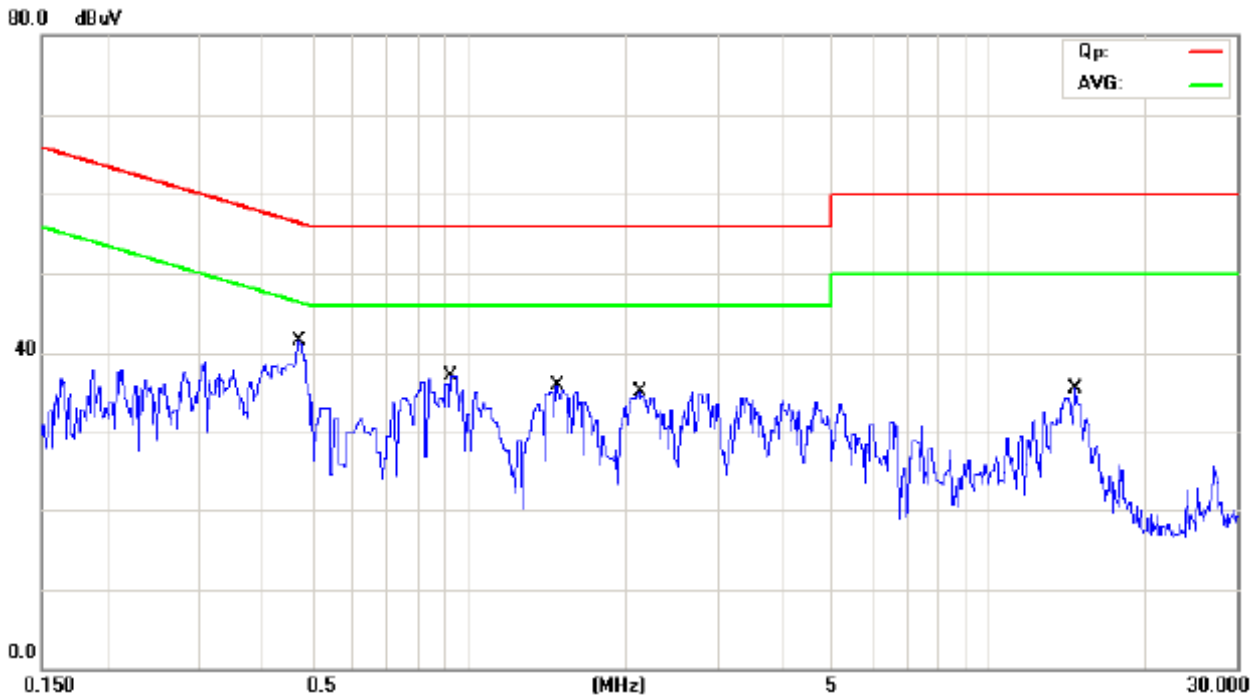
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play memory

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.4673	Neutral	31.44	27.84	56.56	46.56
0.9710	Neutral	29.41	22.11	56.00	46.00
1.4675	Neutral	35.94	31.54	56.00	46.00
2.1200	Neutral	35.16	30.11	56.00	46.00
14.625	Neutral	35.74	31.54	60.00	50.00

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

EUT Operating Environment

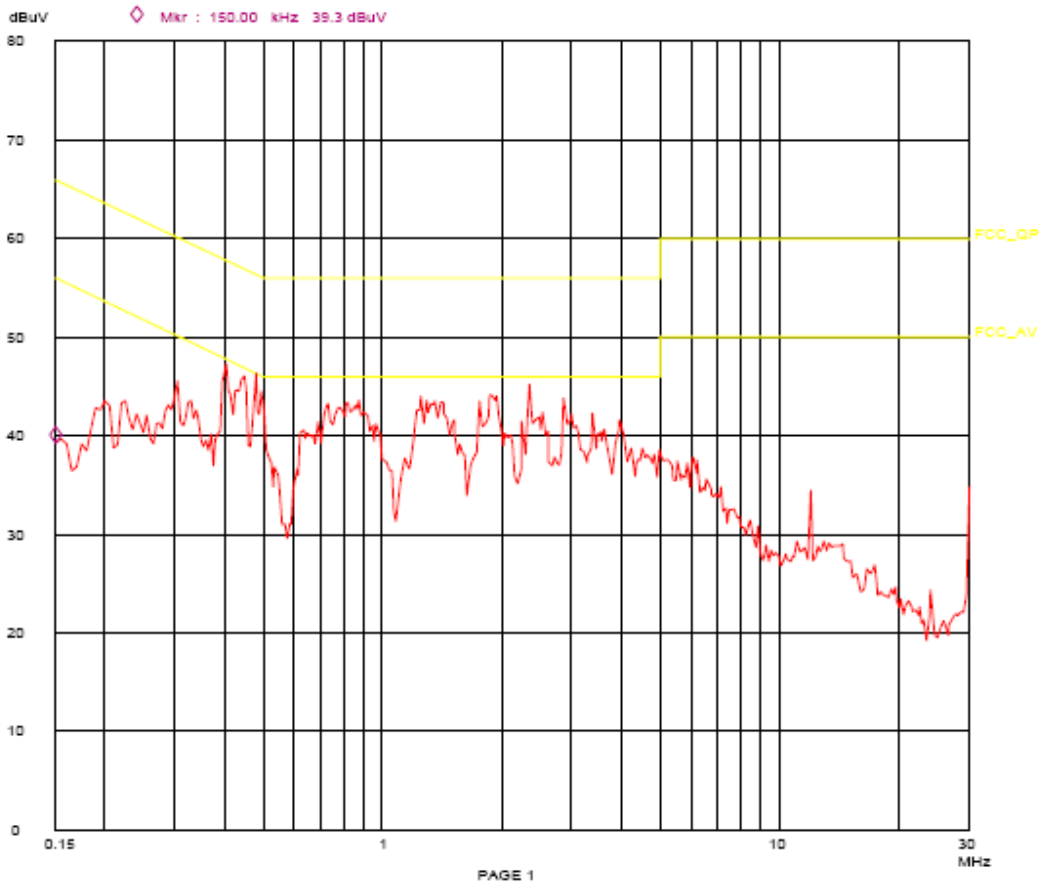
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.405	Live	36.7	23.9	57.8	47.8
0.480	Live	39.0	26.5	56.3	46.3
0.875	Live	36.0	23.3	56.0	46.0
1.250	Live	35.0	23.0	56.0	46.0
1.860	Live	36.3	23.8	56.0	46.0
2.345	Live	35.2	23.1	56.0	46.0

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

EUT Operating Environment

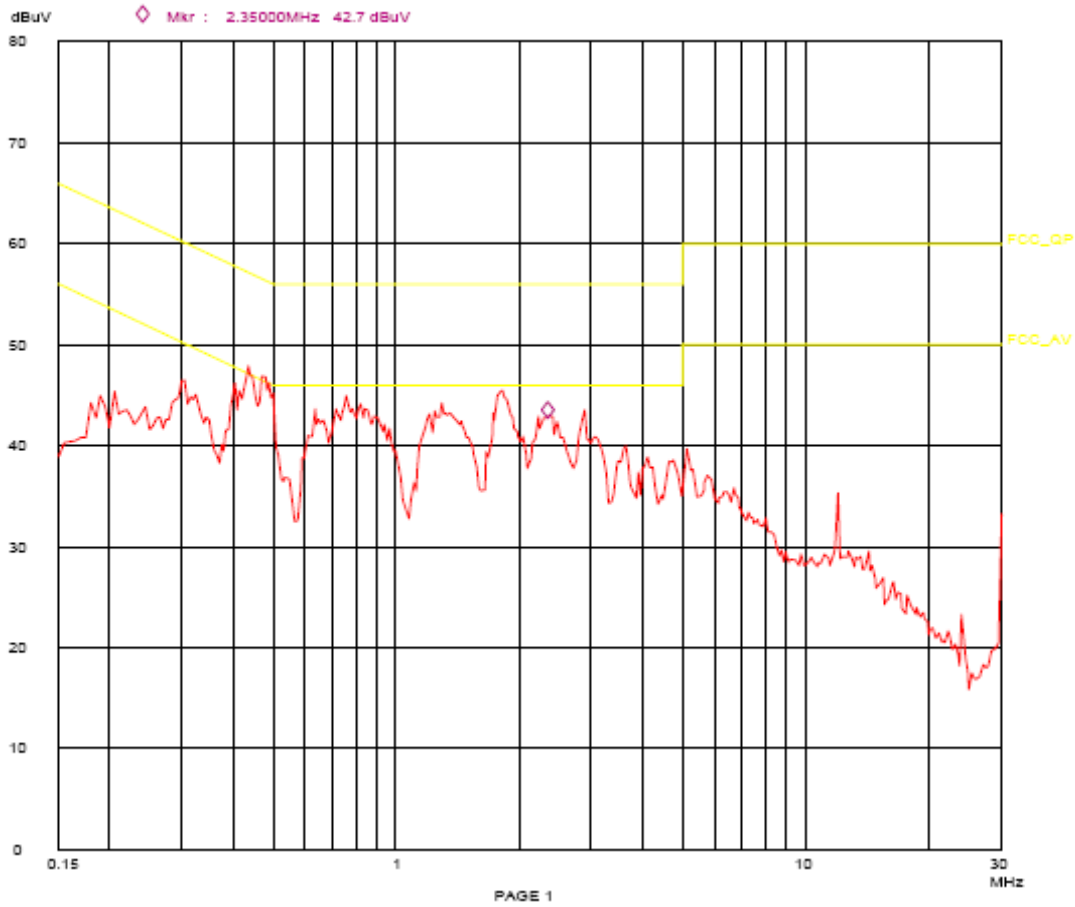
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.435	Neutral	42.0	31.2	57.2	47.2
0.470	Neutral	41.8	31.4	56.5	46.5
0.755	Neutral	39.1	28.0	56.0	46.0
1.290	Neutral	39.3	28.2	56.0	46.0
1.820	Neutral	39.5	27.9	56.0	46.0
2.885	Neutral	37.3	25.2	56.0	46.0

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

EUT Operating Environment

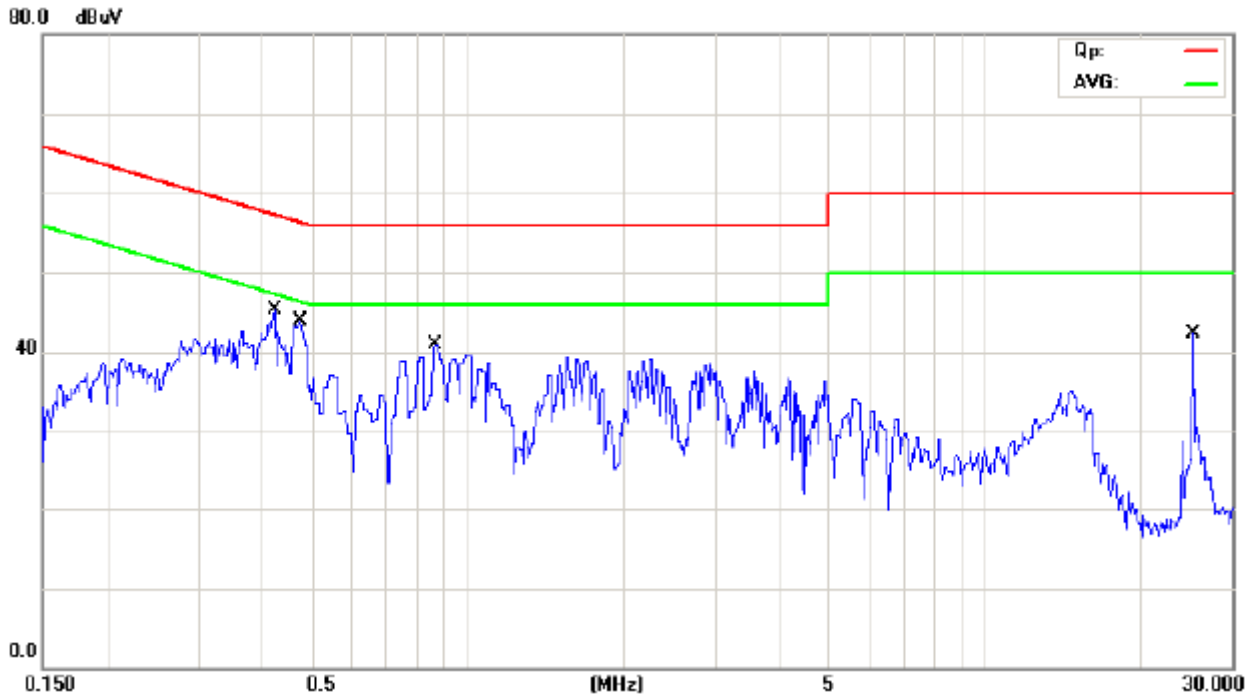
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connect to PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.421	Live	35.59	26.39	57.4	47.4
0.470	Live	39.34	27.54	56.5	46.5
0.864	Live	33.26	29.36	56.0	46.0
25.175	Live	25.80	22.30	60.0	50.0

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

EUT Operating Environment

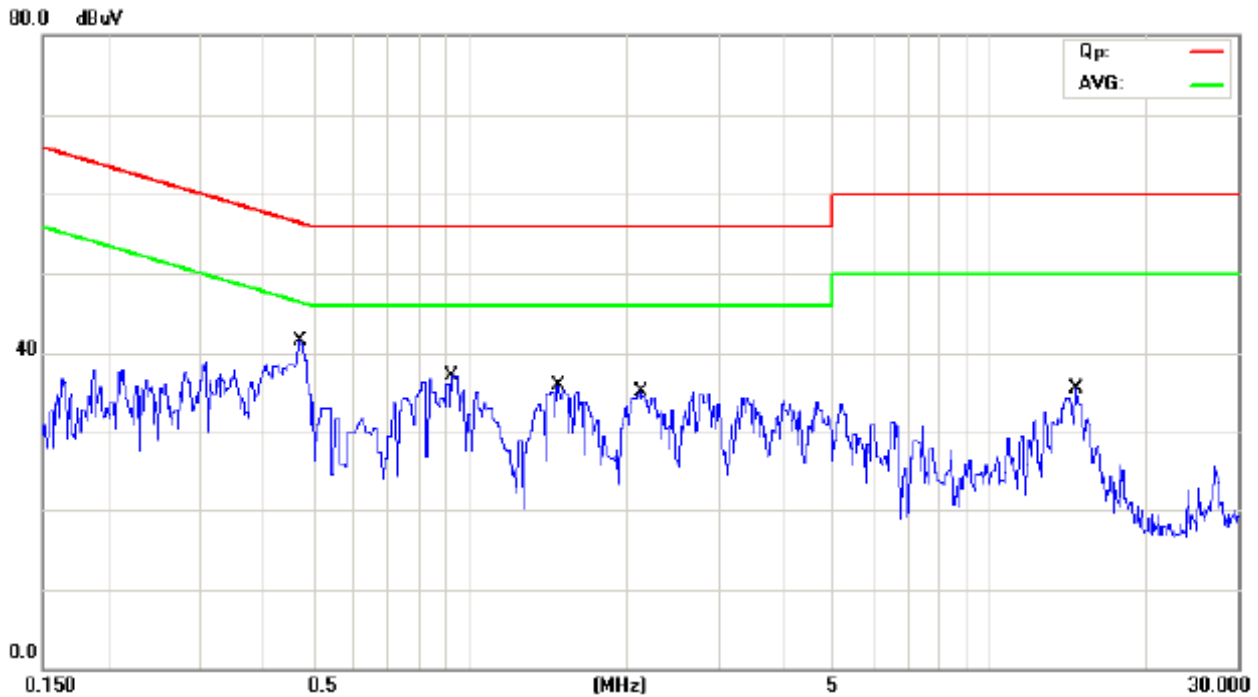
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connect to PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.467	Neutral	31.44	27.84	56.5	46.5
0.917	Neutral	29.41	22.11	56.0	46.0
1.467	Neutral	35.94	31.54	56.0	46.0
2.120	Neutral	35.16	30.11	56.0	46.0
14.625	Neutral	35.47	31.54	60.0	50.0

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

EUT Operating Environment

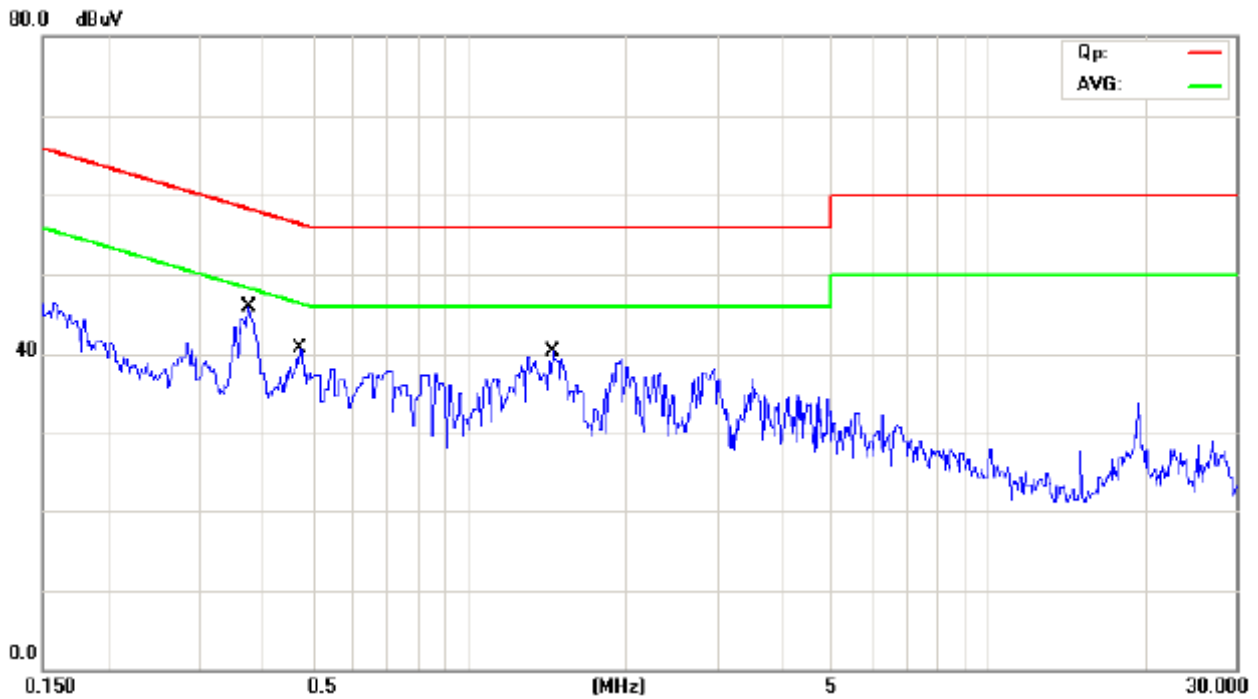
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play SD

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.3692	Live	38.03	27.23	58.52	48.2
0.4692	Live	36.04	23.74	56.53	46.3
1.4450	Live	39.25	30.36	56.0	46.0

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

EUT Operating Environment

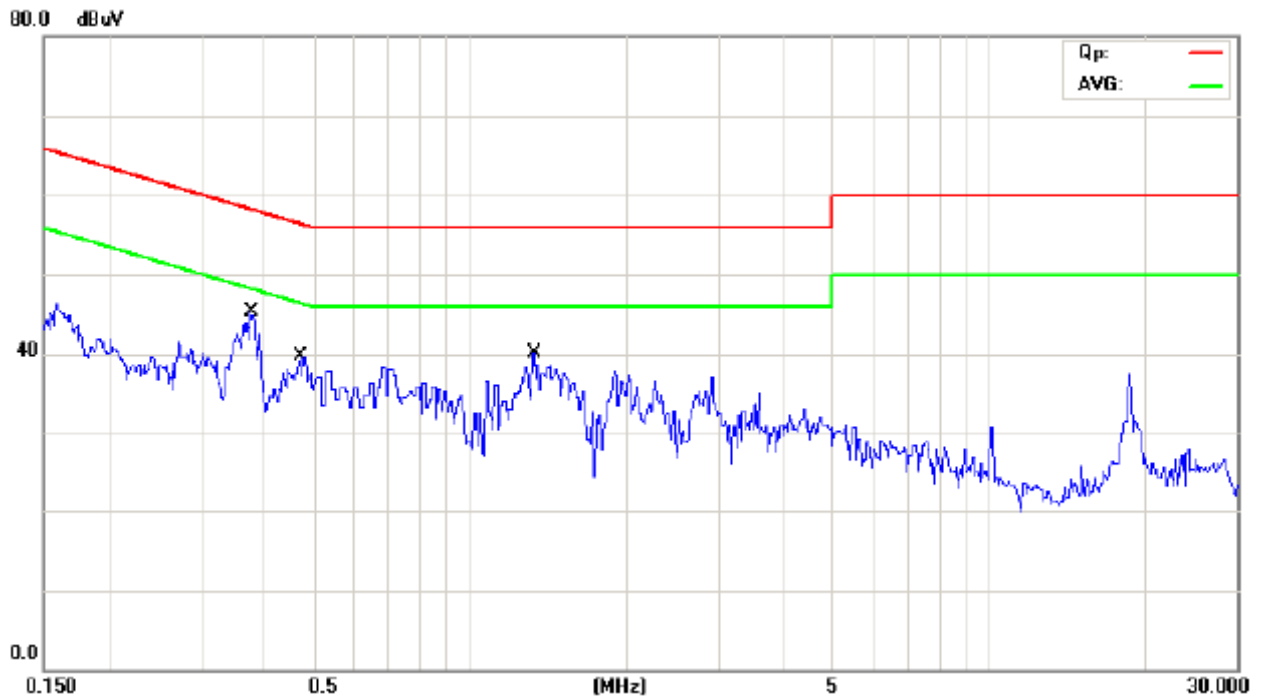
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play SD

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.3716	Neutral	37.23	14.63	58.47	48.47
0.4676	Neutral	33.75	23.00	56.56	46.56
1.3212	Neutral	38.01	25.03	56.00	46.00

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

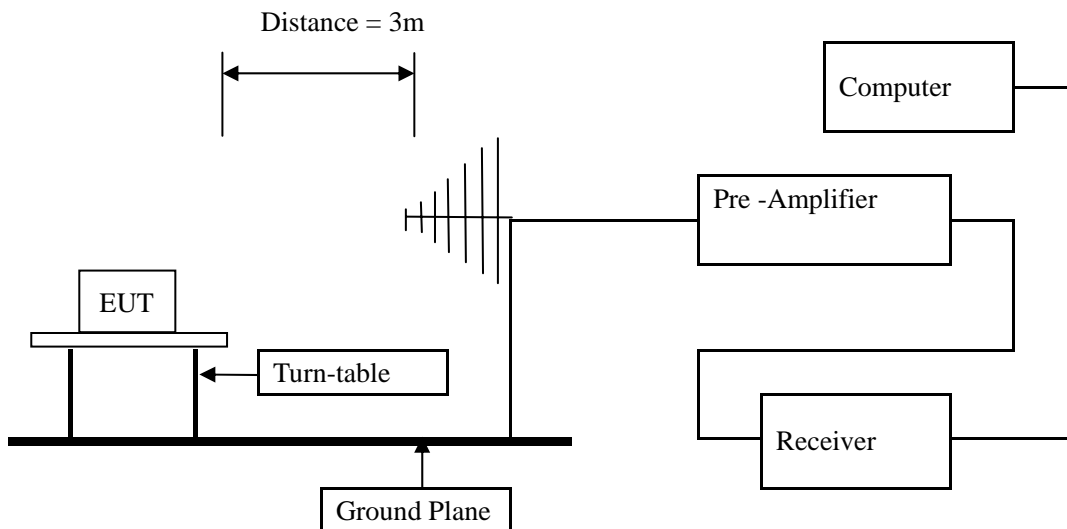


5.2 Test Method and test Procedure:

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.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



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 (30MHz----1000MHz)

EUT Operating Environment

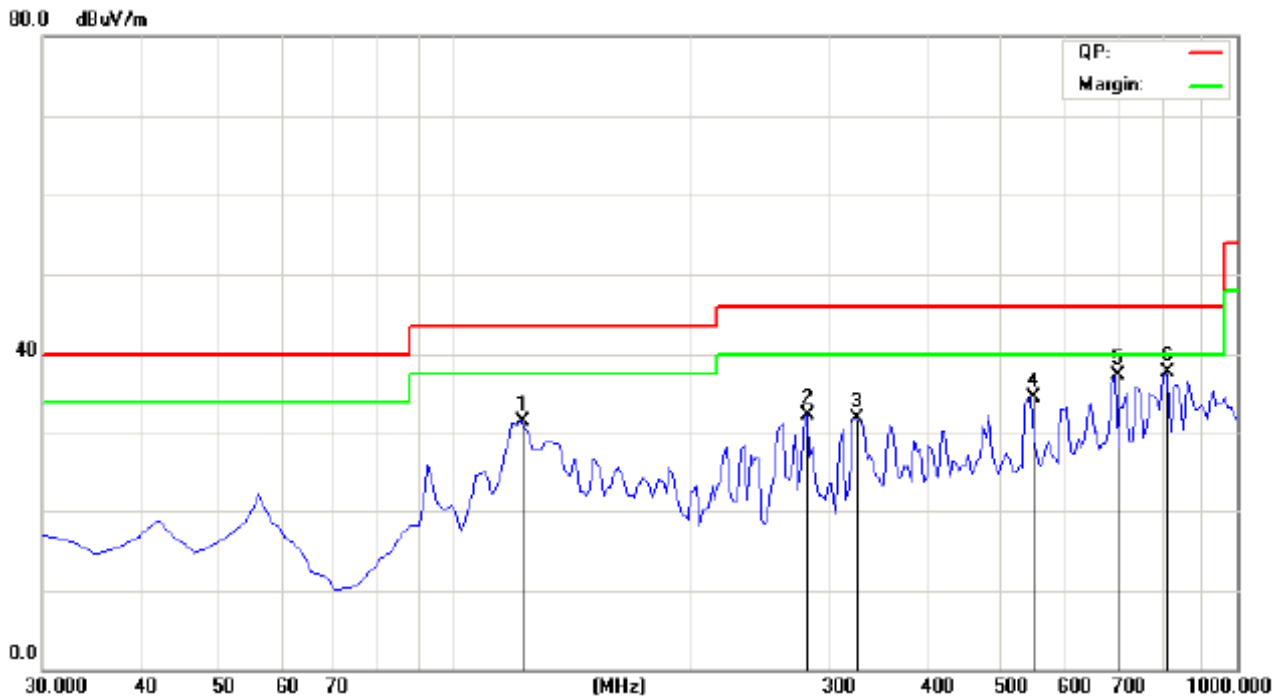
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play memory

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
122.150	31.46	H	43.50
282.200	32.28	H	46.00
325.850	31.81	H	46.00
546.525	34.43	H	46.00
701.725	37.21	H	46.00
815.700	37.74	H	46.00

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

EUT Operating Environment

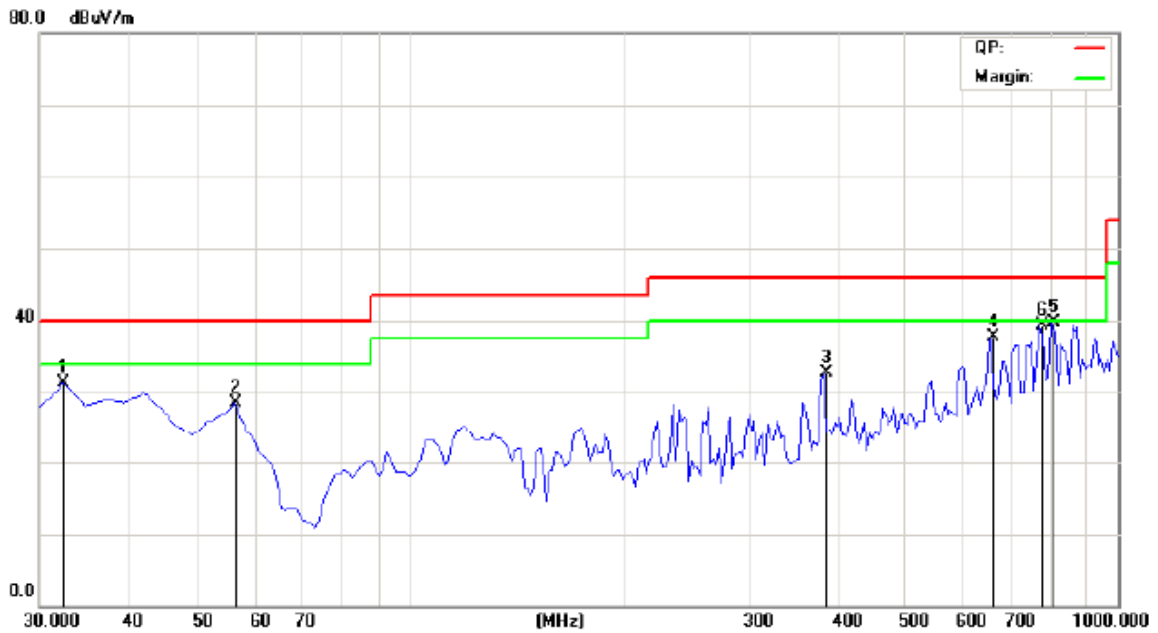
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play memory

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
32.425	31.32	V	40.00
56.675	28.45	V	40.00
386.475	32.67	V	46.00
665.350	37.67	V	46.00
806.000	39.76	V	46.00
776.900	39.24	V	46.00

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

EUT Operating Environment

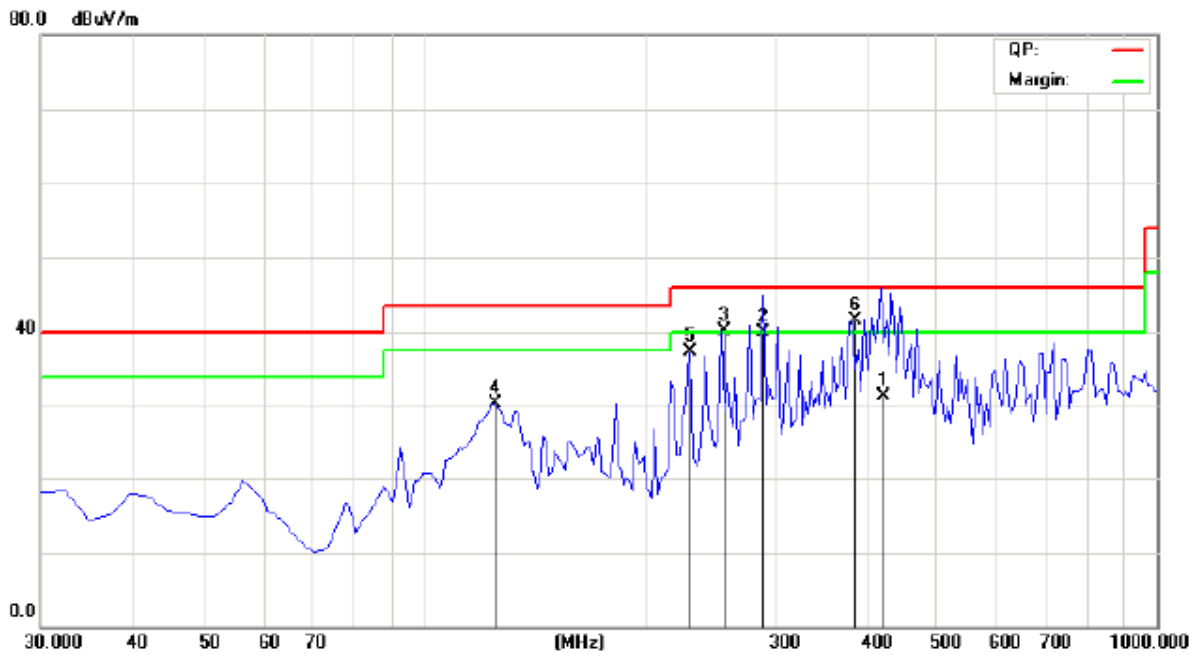
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
422.713	31.27	H	46.00
288.006	39.98	H	46.00
255.525	40.12	H	46.00
124.575	30.39	H	43.50
231.275	37.30	H	46.00
386.475	41.44	H	46.00

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

EUT Operating Environment

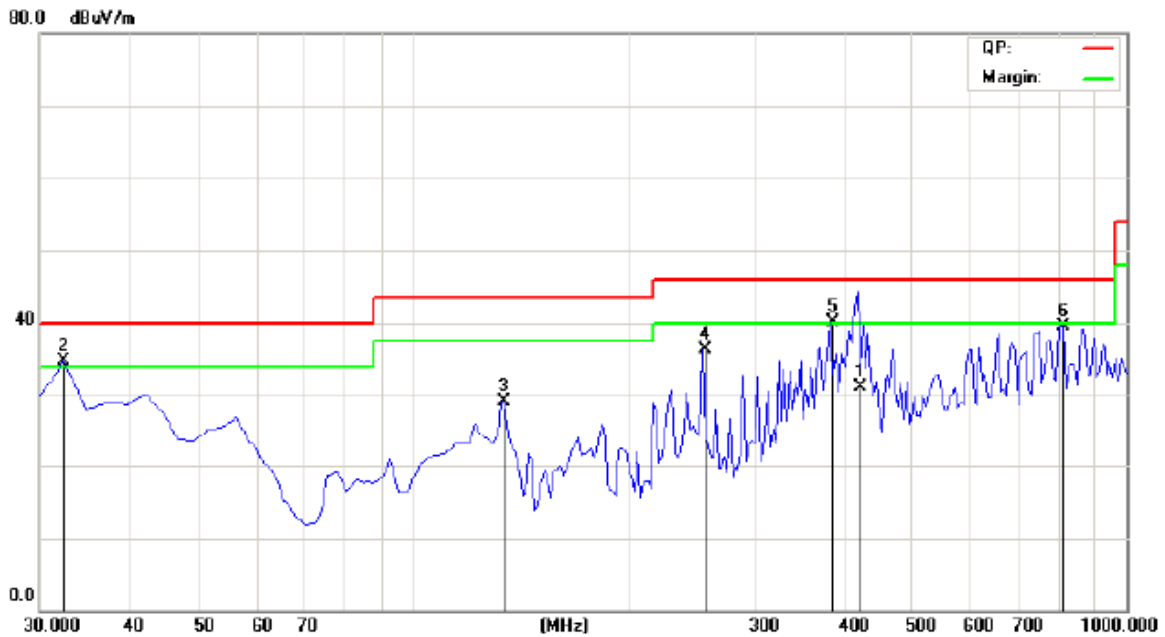
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
420.030	31.18	V	46.00
32.425	34.70	V	40.00
134.275	29.05	V	43.50
255.525	36.34	V	46.00
386.475	40.16	V	46.00
815.700	39.58	V	46.00

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

EUT Operating Environment

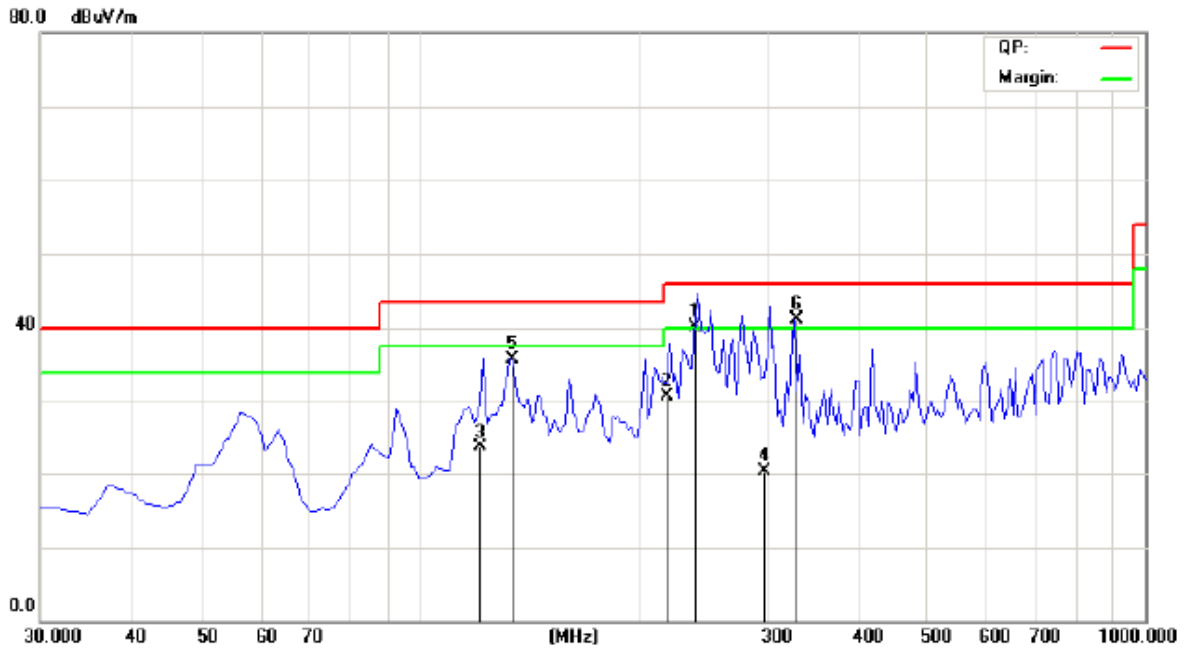
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connect to PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
239.434	40.17	H	46.00
218.223	30.61	H	46.00
120.009	23.69	H	43.50
297.405	20.30	H	46.00
134.275	35.65	H	43.50
330.700	41.06	H	46.00

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

EUT Operating Environment

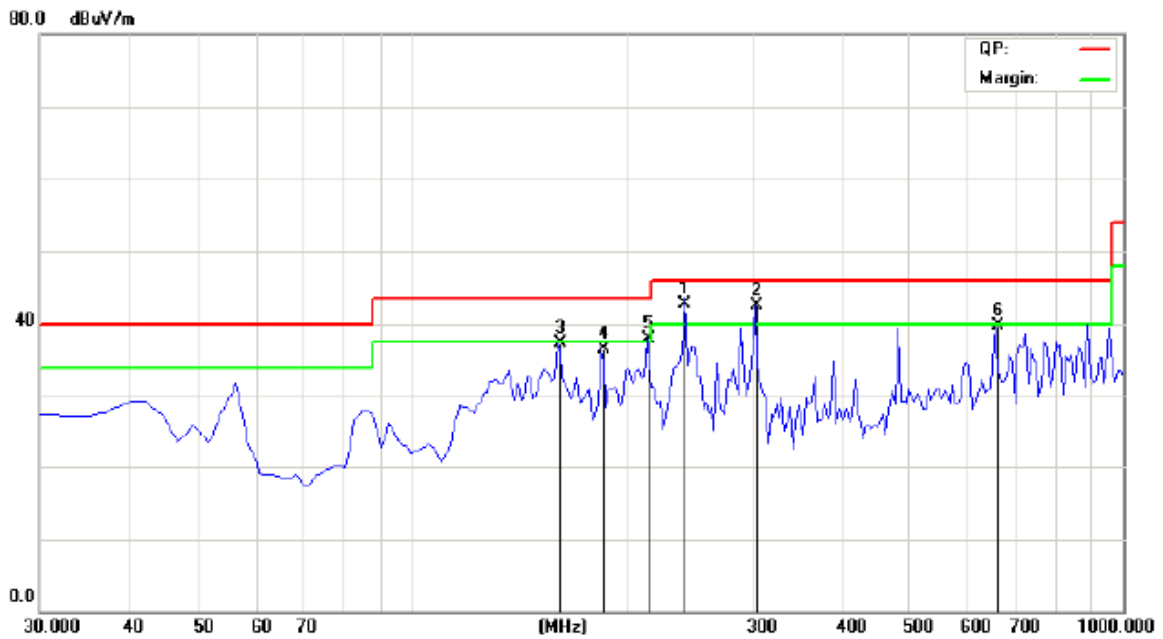
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connect to PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
239.959	42.80	V	46.00
304.025	42.50	V	46.00
160.950	37.34	V	43.50
185.200	36.54	V	43.50
214.300	37.82	V	43.50
662.925	39.66	V	46.00

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

EUT Operating Environment

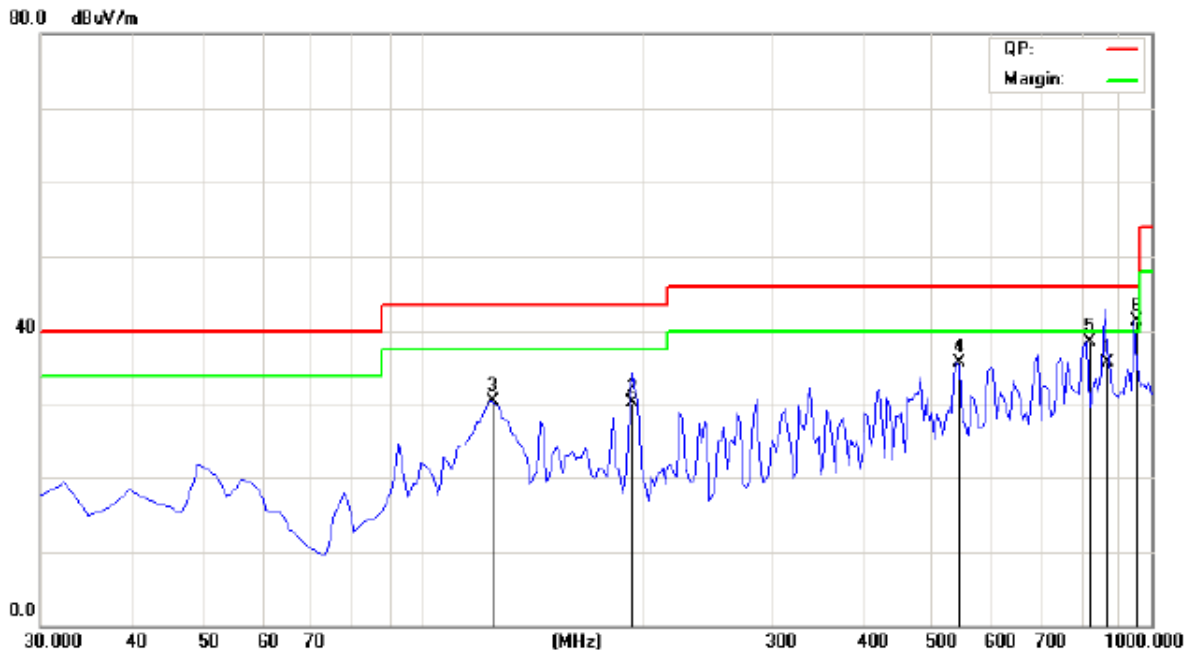
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play SD

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
864.534	35.61	H	46.00
192.985	30.31	H	43.50
124.575	30.51	H	43.50
544.100	35.61	H	46.00
818.125	38.50	H	46.00
956.350	41.22	H	46.00

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

EUT Operating Environment

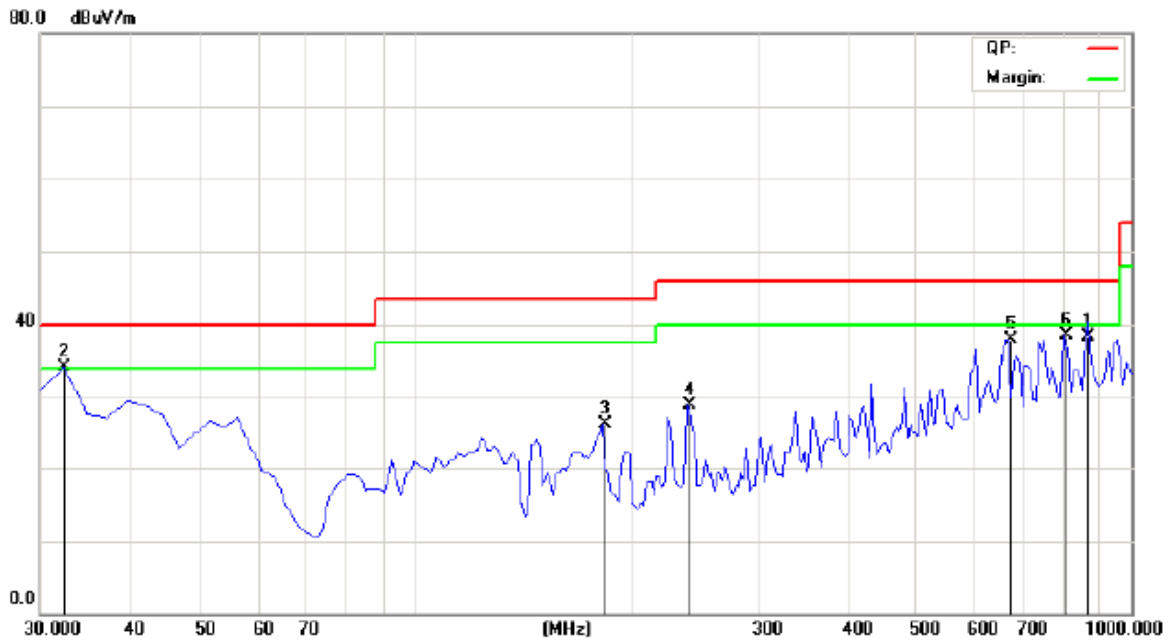
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play SD

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
867.790	38.29	V	46.00
32.425	34.16	V	40.00
182.775	26.40	V	43.50
240.975	28.82	V	46.00
677.475	37.94	V	46.00
806.000	38.52	V	46.00

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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
- 7.1 Conducted test View--



- 7.2 Radiated emission test view--



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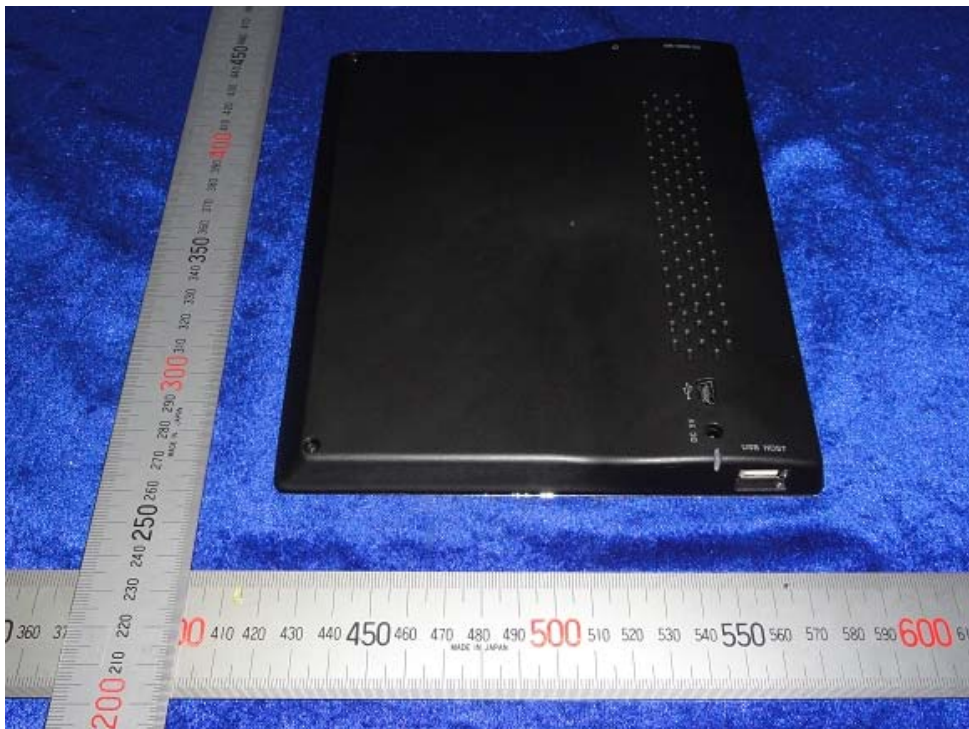
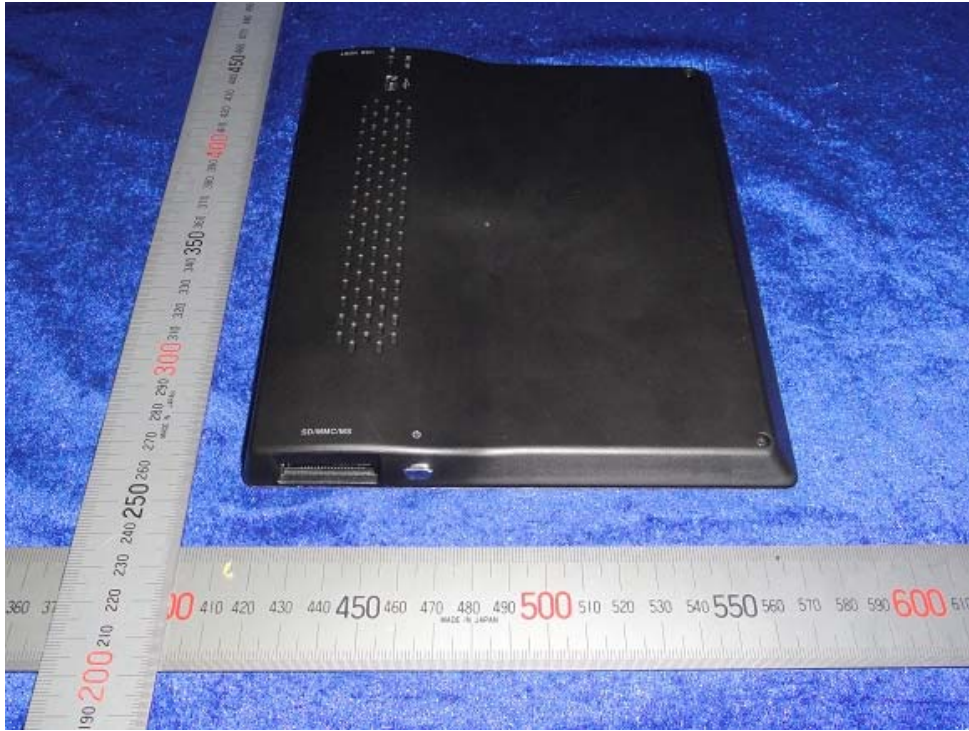
7.3 Photo for the EUT



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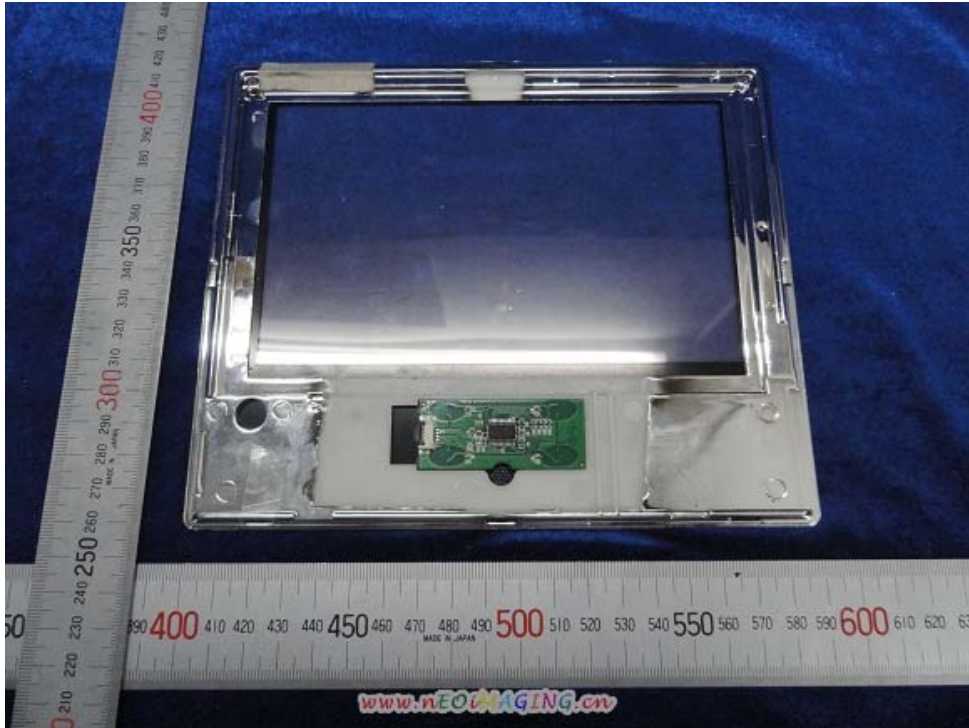
Side View



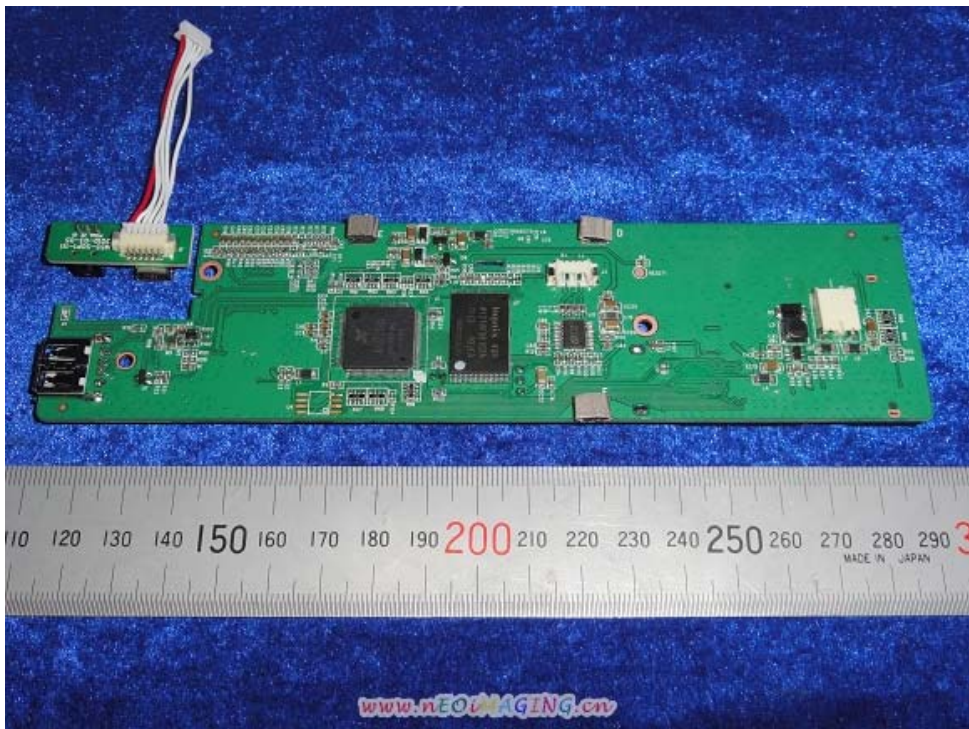
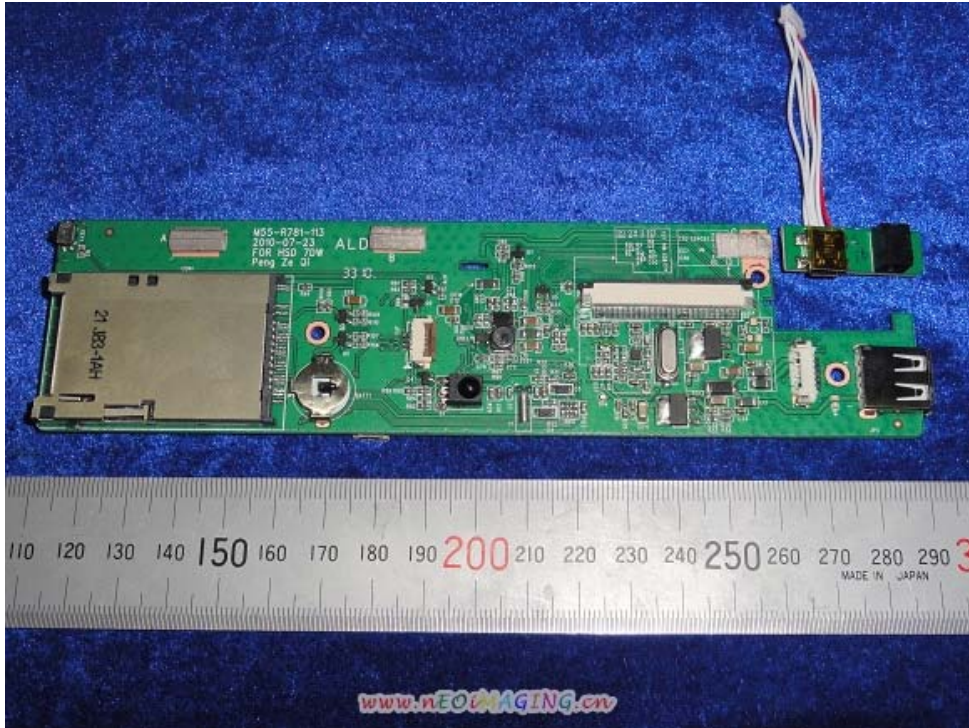
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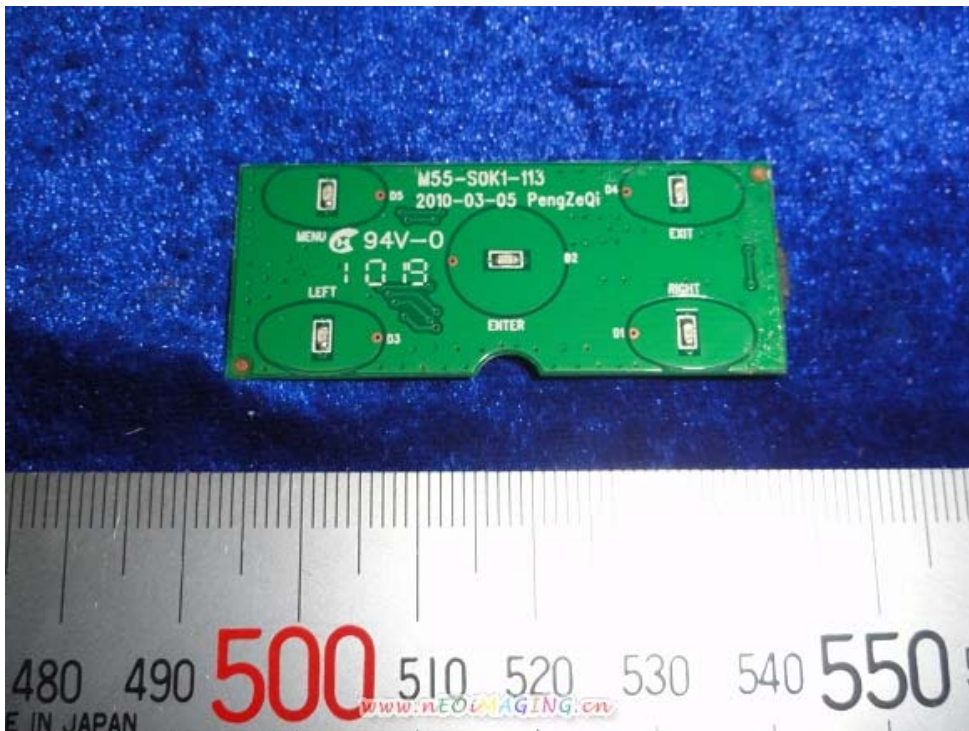
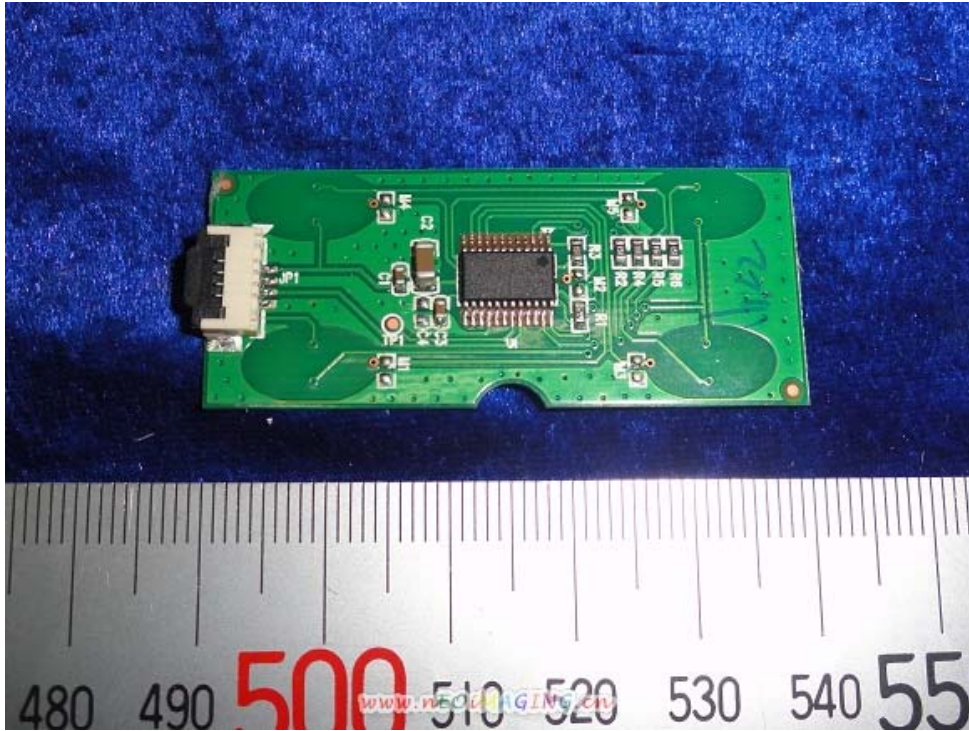
Interior View



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-End of the report-

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