

TECHNOLOGY
CONSULTING
CO LTD



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 1106296-02

File reference No: 2011-07-10

Applicant: Coby Communications Ltd.

Product: Mobil Internet Device

Model No: MID7022

Trademark: COBY

Test Standards: FCC Part 15 Subpart B: 2009

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: July 10, 2011

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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Test Report Conclusion

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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: Coby Communications Ltd.
Address: Unit C-E, 8/F, PO Shau Centre Hong Kong
Telephone: 85227595838
Fax: 85227595887

1.3 Description of EUT

Product: Mobile Internet Device
Manufacturer: Shenzhen COBY Communications LTD.
Brand Name: COBY
Model Number: MID7022
Additional Model Number: MID7016
Power Adapter Model: PS12K0502000UE, Input :100-240V~, 50-60Hz,0.35A;
Output: DC5V, 2000mA

1.4 Submitted Sample: 2 Sample

1.5 Test Duration: 2011-06-30 to 2011-07-08

1.6 Test Uncertainty

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

1.7 Test Engineer

The sample tested by

Print Name: Terry Tong

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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	ESH3	860905/006	RS	2010.4.26	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2010.4.26	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2010.4.26	1Year
LISN	ESH3-Z5	100294	RS	2010.4.26	1Year
LISN	ESH3-Z5	100253	RS	2010.4.26	1Year
LISN	LS16C	10010947251	AFJ	2010-5-14	1Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2010-5-14	1Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2010.4.26	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2010.4.26	1Year
Amplifier	8447D	2727A05017	HP	2010.4.26	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2010.4.26	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2010.07.03	1Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Monitor	P2450	--	SAMSUNG	Data cable of 1.5m length	FCC DOC
U-disk	U208	--	Netac	--	FCC DOC
Earphone	--	--	--	Data cable of 1.0m length	--
SD	--	--	Kingston	--	--

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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: 2009

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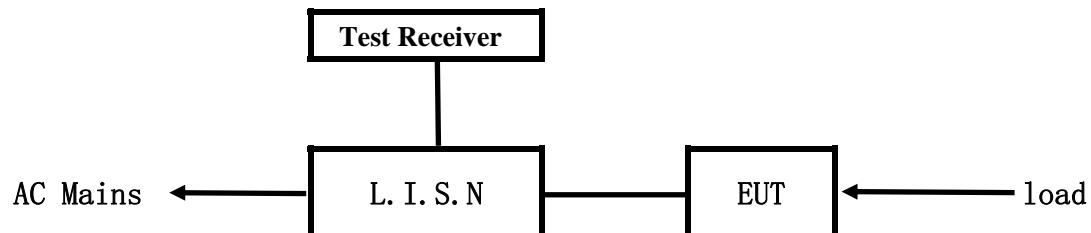
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4.0 Conducted Power line Test

4.1 Schematics of the test



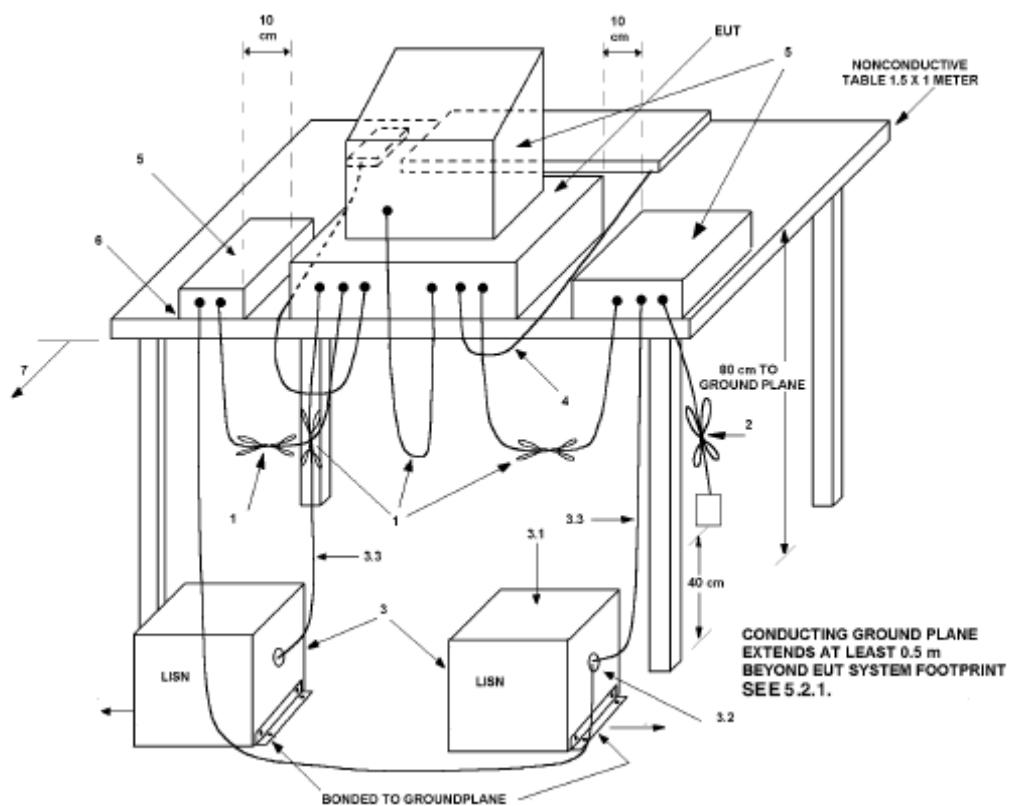
EUT: Equipment Under Test

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.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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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: 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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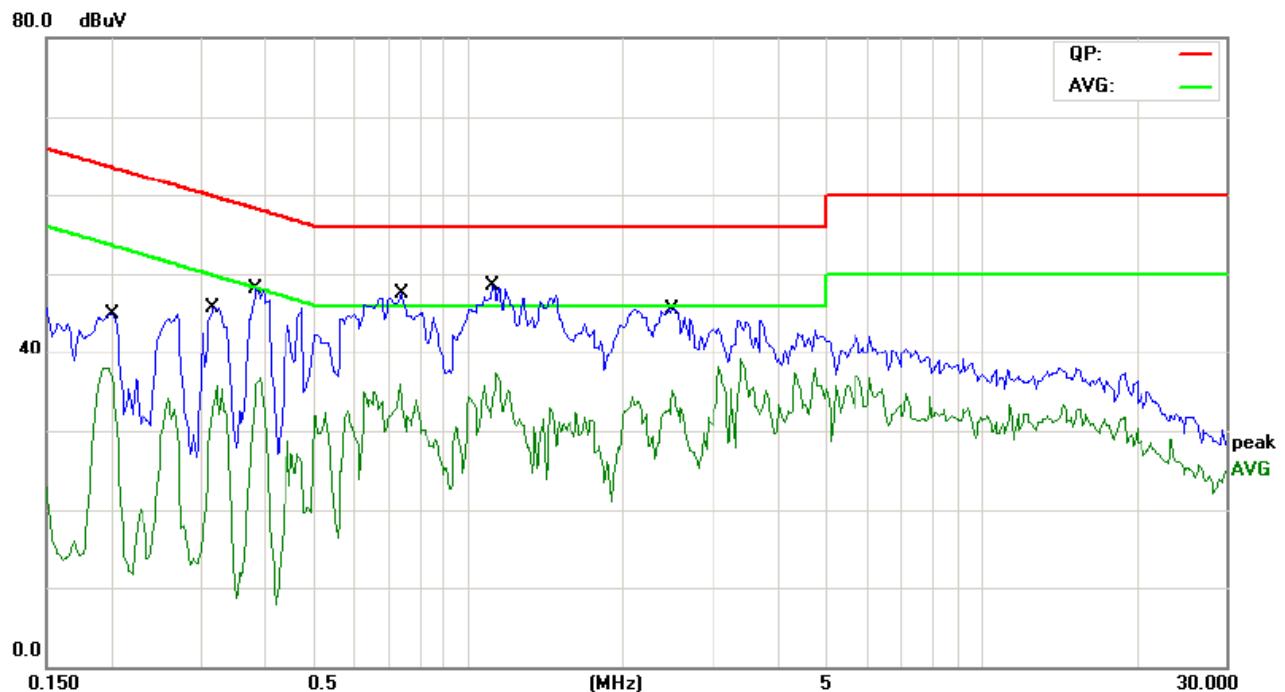


A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep WIFI Transmitting, Read USB,SD card and Running EMC test
Software with HDMI output

Results: **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit	
	Line		Neutral		(dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.2008	43.21	36.16	--	--	63.57	53.57
0.3108	42.76	34.36	--	--	59.76	49.76
0.3844	42.64	33.91	--	--	58.18	48.18
0.7359	44.13	32.12	--	--	56.00	46.00
1.1148	42.89	32.73	--	--	56.00	46.00
2.4898	44.14	31.70	--	--	56.00	46.00

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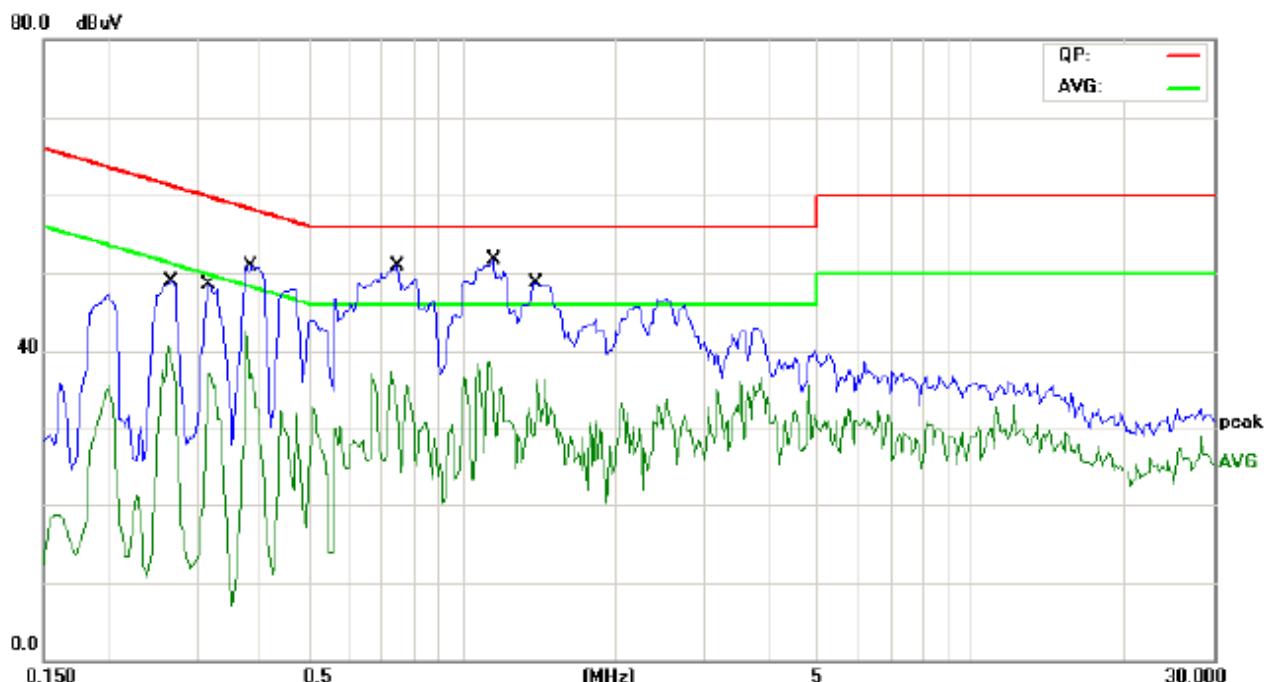


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep WIFI Transmitting, Read USB,SD card and Running EMC test
Software with HDMI output

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
0.2672	--	--	46.00	34.80	61.20	51.20
0.3180	--	--	45.12	33.77	59.76	49.76
0.3844	--	--	48.41	36.07	58.18	48.18
0.7438	--	--	47.90	30.35	56.00	46.00
1.1500	--	--	47.83	33.56	56.00	46.00
1.4000	--	--	44.11	29.95	56.00	46.00

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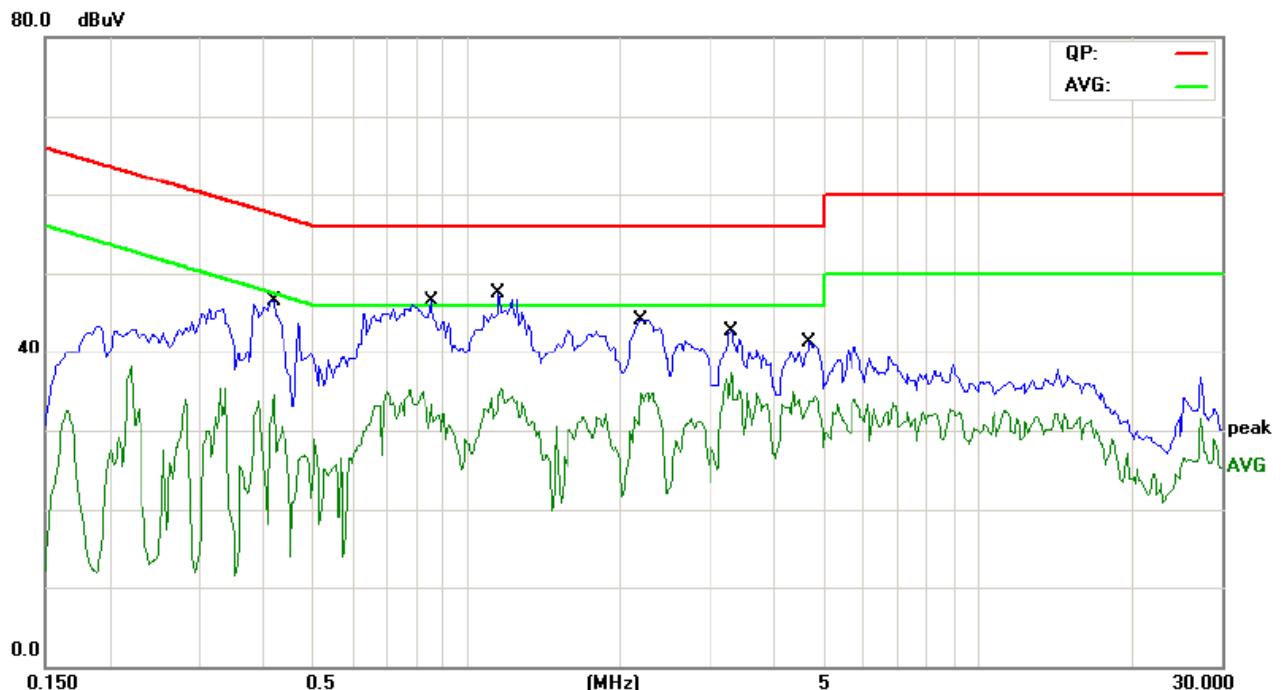


C Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC and Full Load

Results: **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit	
	Line		Neutral		(dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4195	43.37	32.14	--	--	57.46	47.46
0.8531	40.91	31.76	--	--	56.00	46.00
1.1578	41.40	32.62	--	--	56.00	46.00
2.2008	39.77	31.25	--	--	56.00	46.00
3.3086	39.10	31.83	--	--	56.00	46.00
4.6913	36.55	28.16	--	--	56.00	46.00

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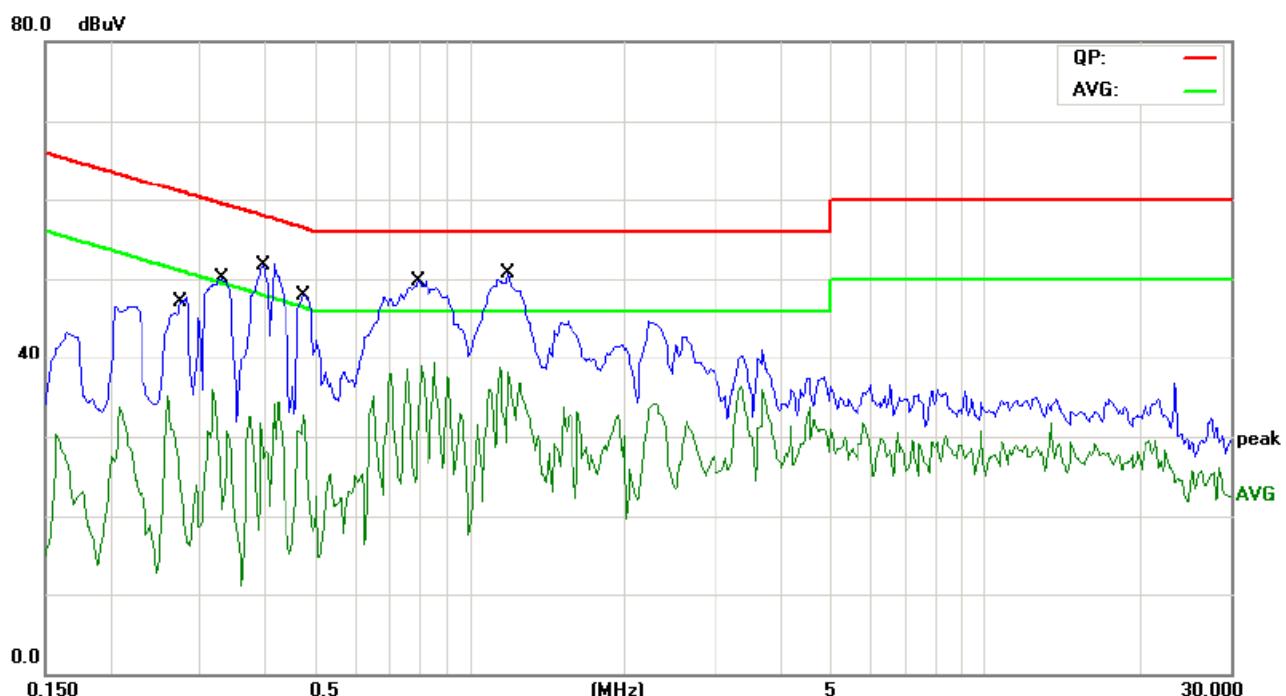


D Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC and Full Load

Results: **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit	
	Live		Neutral		(dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.2711	--	--	44.70	34.28	61.08	51.08
0.3297	--	--	47.21	32.80	59.46	49.46
0.3961	--	--	43.50	26.78	57.93	47.93
0.4781	--	--	45.49	33.97	56.37	46.37
0.7945	--	--	46.19	33.33	56.00	46.00
1.1852	--	--	45.94	33.41	56.00	46.00

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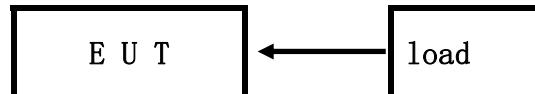
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

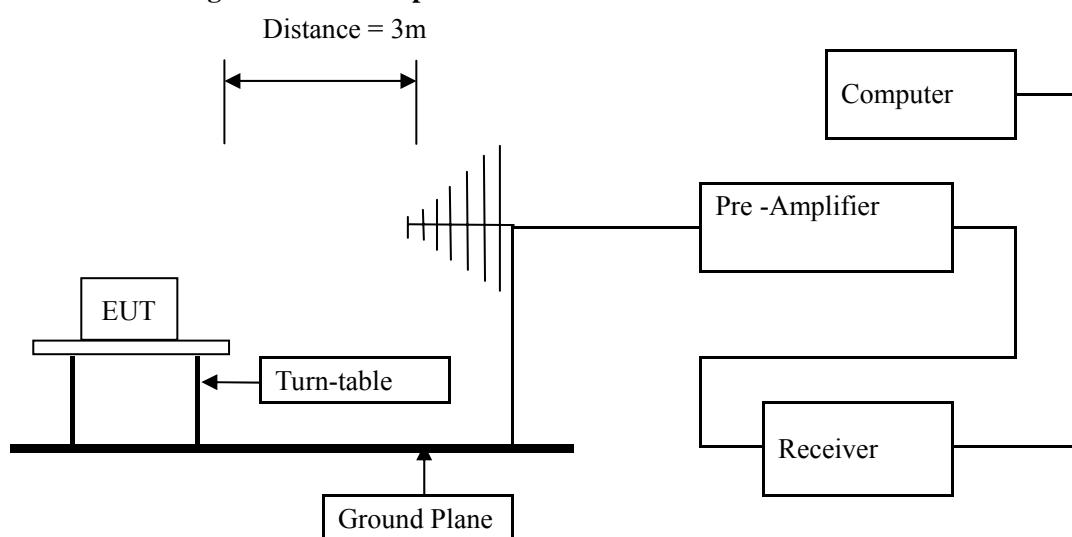


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

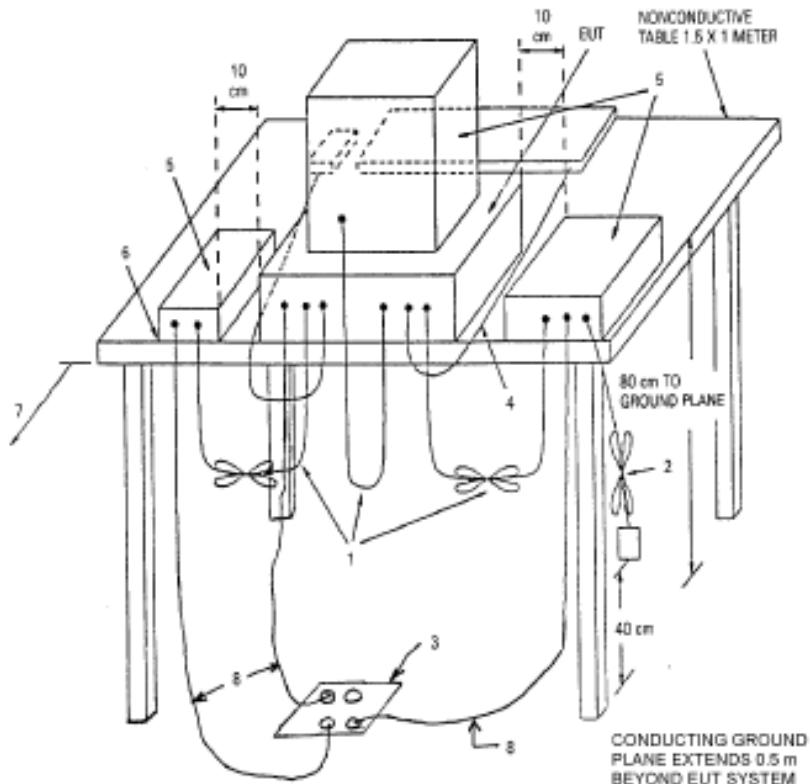
Block diagram of Test setup



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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: 1. The lower limit shall apply at the transition frequencies

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand). After pre-test. It was found that the worse radiated emission was get at the lying position.

5.4 Test result

The frequency spectrum from 30MHz to 8GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep WIFI Transmitting, Read USB,SD card and Running EMC test Software with HDMI output

Results: **Pass**

Model: **MID7022**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
214.6693	40.06	H	43.50
263.2664	42.70	H	46.00
288.5371	42.91	H	46.00
311.8637	42.80	H	46.00
360.4610	42.94	H	46.00
504.3086	42.54	H	46.00
871.7034	42.98	H	46.00
799.7796	42.85	H	46.00
455.7114	42.62	H	46.00
360.4610	39.90	V	46.00
552.9058	41.22	V	46.00
99.9800	38.90	V	43.50
214.6693	37.27	V	43.50
311.8637	38.75	V	46.00
479.0381	39.43	V	46.00
739.5190	39.02	V	46.00
263.2664	41.47	V	46.00

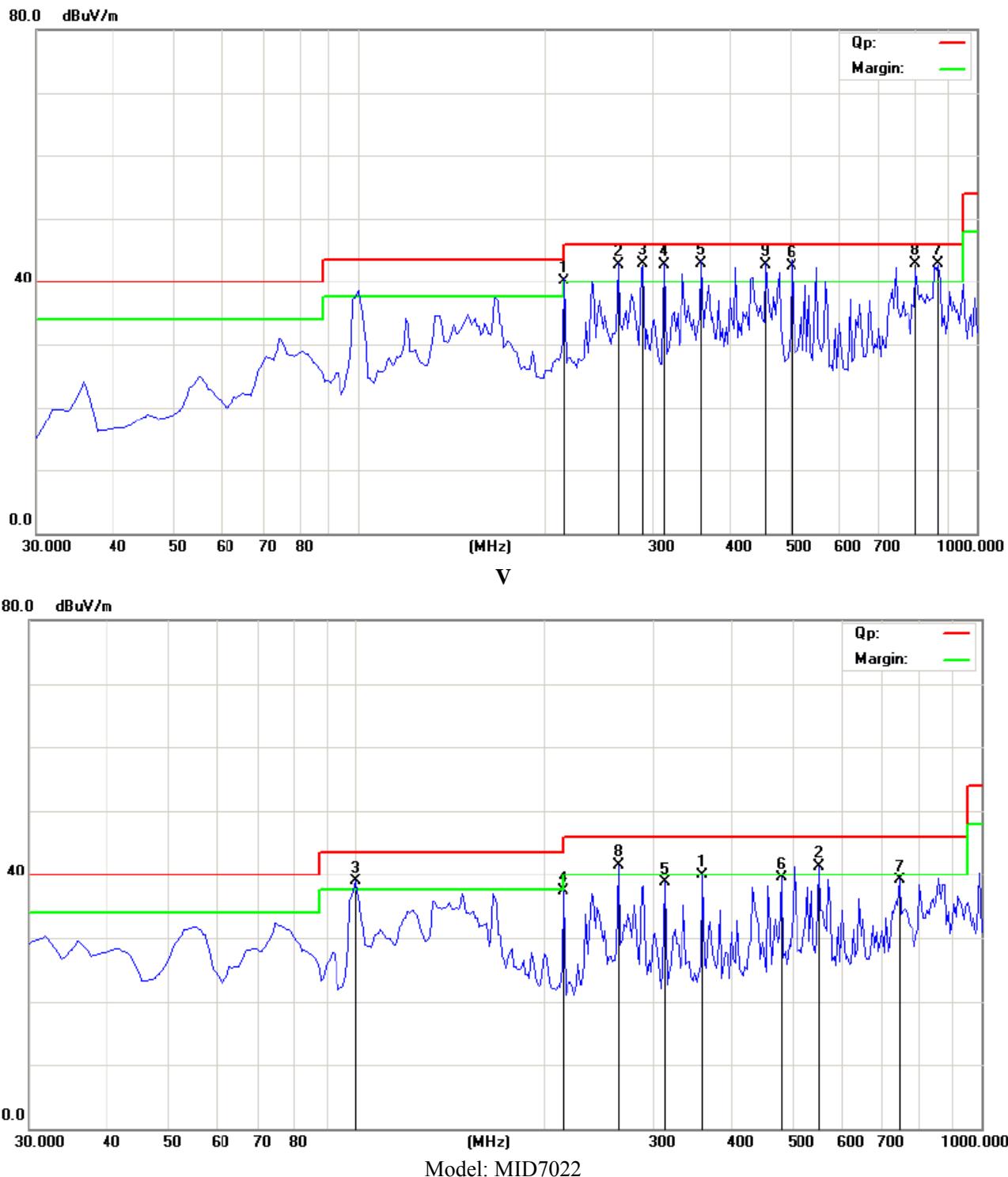
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Test Figure:



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep WIFI Transmitting, Read USB,SD card and Running EMC test Software with HDMI output

Results: **Pass**

Model: **MID7016**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
138.8575	37.83	H	43.50
263.2664	43.07	H	46.00
236.0520	42.35	H	46.00
360.4607	42.15	H	46.00
576.2323	42.23	H	46.00
552.9057	42.41	H	46.00
214.6690	39.73	H	43.50
735.6312	42.58	H	46.00
99.9800	36.63	V	43.50
168.0160	36.82	V	43.50
360.4607	42.17	V	46.00
432.3874	39.80	V	46.00
552.9057	40.76	V	46.00
659.8196	41.57	V	46.00
780.3405	42.26	V	46.00
214.6691	35.91	V	43.50

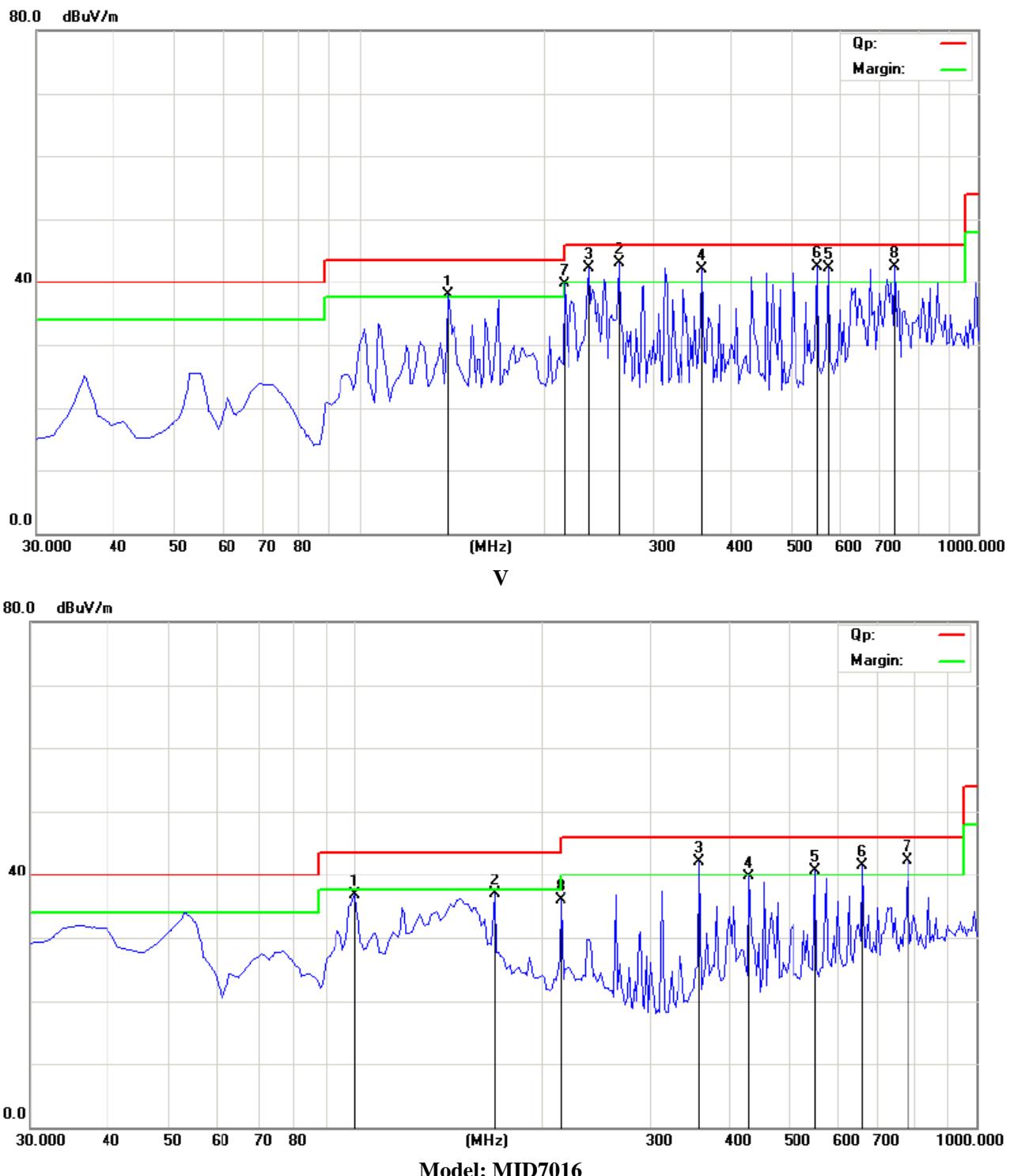
The report refers only to the sample tested and does not apply to the bulk.

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Test Figure:



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Connected to PC and Full Load

Results: **Pass**

Model: **MID7022**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
214.6692	40.11	H	43.50
263.2664	42.66	H	46.00
311.8636	42.77	H	46.00
335.1904	42.95	H	46.00
432.4847	42.94	H	46.00
720.0801	42.56	H	46.00
537.3546	42.98	H	46.00
360.4607	39.88	V	43.50
479.0380	42.52	V	43.50
504.3086	42.99	V	46.00
570.4008	41.88	V	46.00
599.5590	41.24	V	46.00
720.0801	42.38	V	46.00
214.6691	38.16	V	46.00

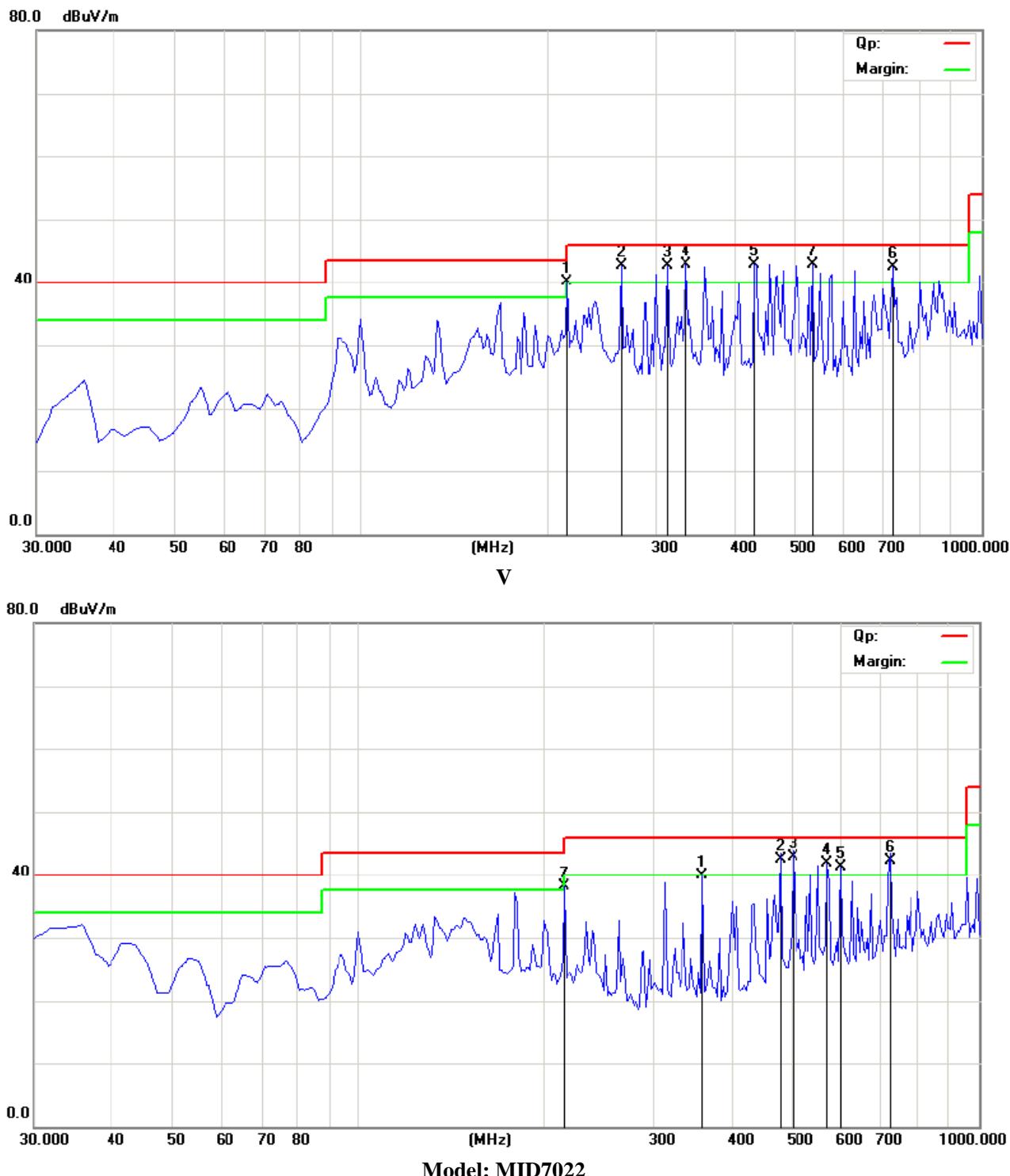
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Test Figure:



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Connected to PC and Full Load

Results: **Pass**

Model: **MID7016**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
98.0361	39.97	H	43.50
166.0721	40.42	H	46.00
265.2102	42.30	H	46.00
335.1904	42.81	H	46.00
399.3387	41.04	H	46.00
720.0801	42.63	H	46.00
840.6011	42.47	H	46.00
98.0361	38.82	V	43.50
119.4188	40.48	V	43.50
166.0721	40.45	V	46.00
720.0802	40.72	V	46.00
480.9820	40.51	V	46.00
527.6352	40.37	V	46.00
965.0100	39.59	V	46.00

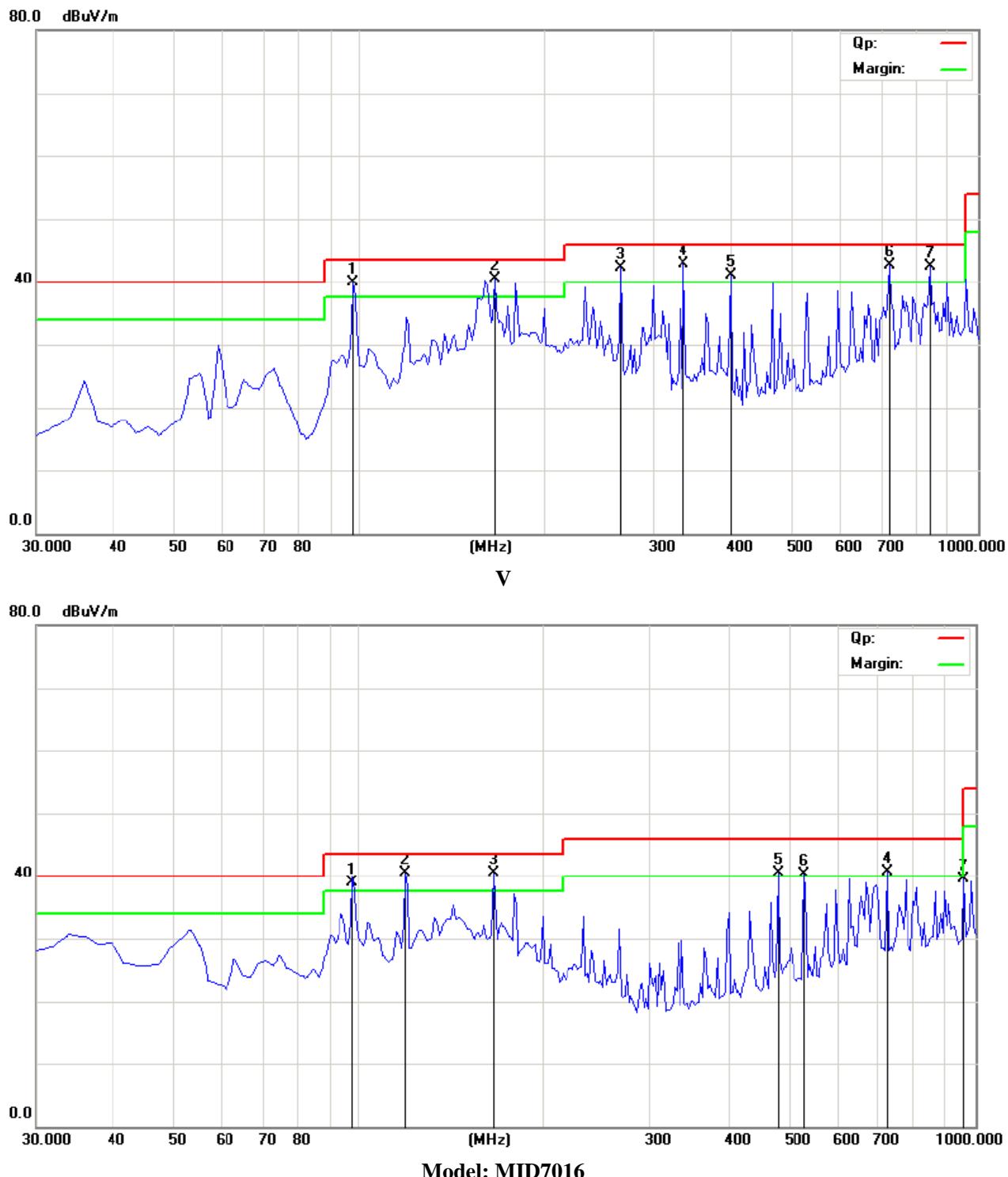
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Test Figure:



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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

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

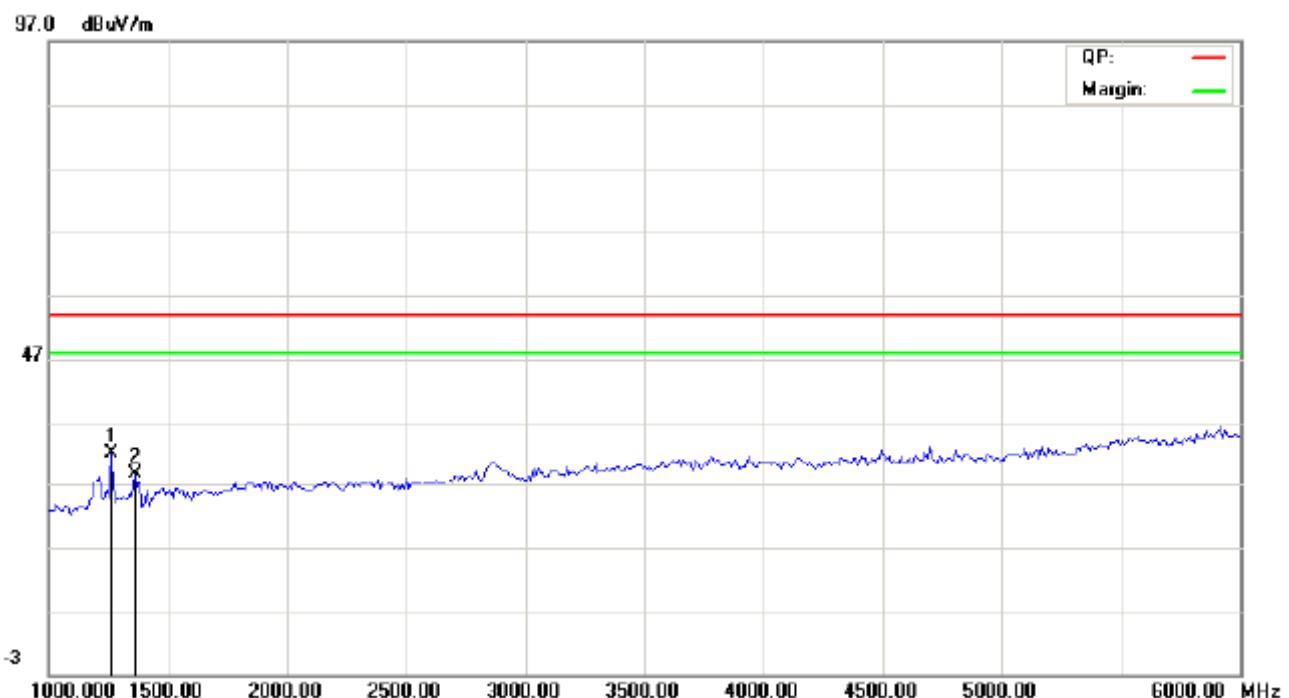
EUT set Condition: Read USB,SD card and Running EMC test Software with HDMI output

Equipment Level: Class B

Results: Pass

Model: MID7022

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
1260.521	32.07 (PK)	H	54(AV)
1360.721	28.98 (PK)	H	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

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

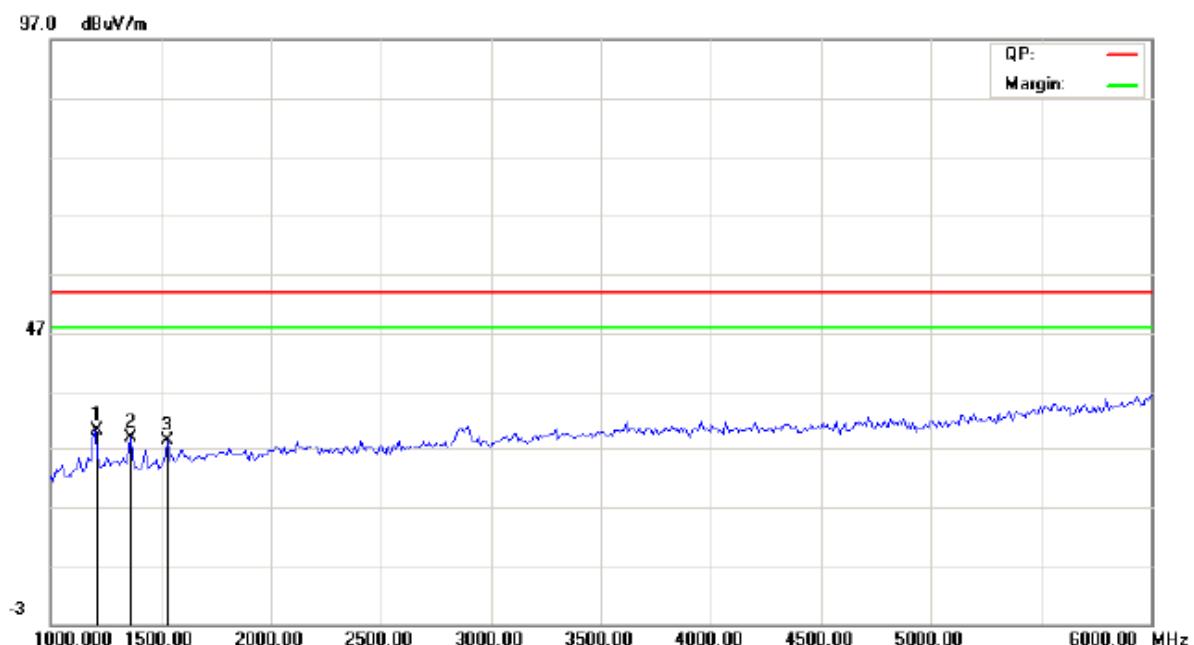
EUT set Condition: Read USB,SD card and Running EMC test Software with HDMI output

Equipment Level: Class B

Results: Pass

Model: MID7022

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
1200.401	30.33 (PK)	V	54(AV)
1360.721	29.18 (PK)	V	54(AV)
1531.062	28.63 (PK)	V	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

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

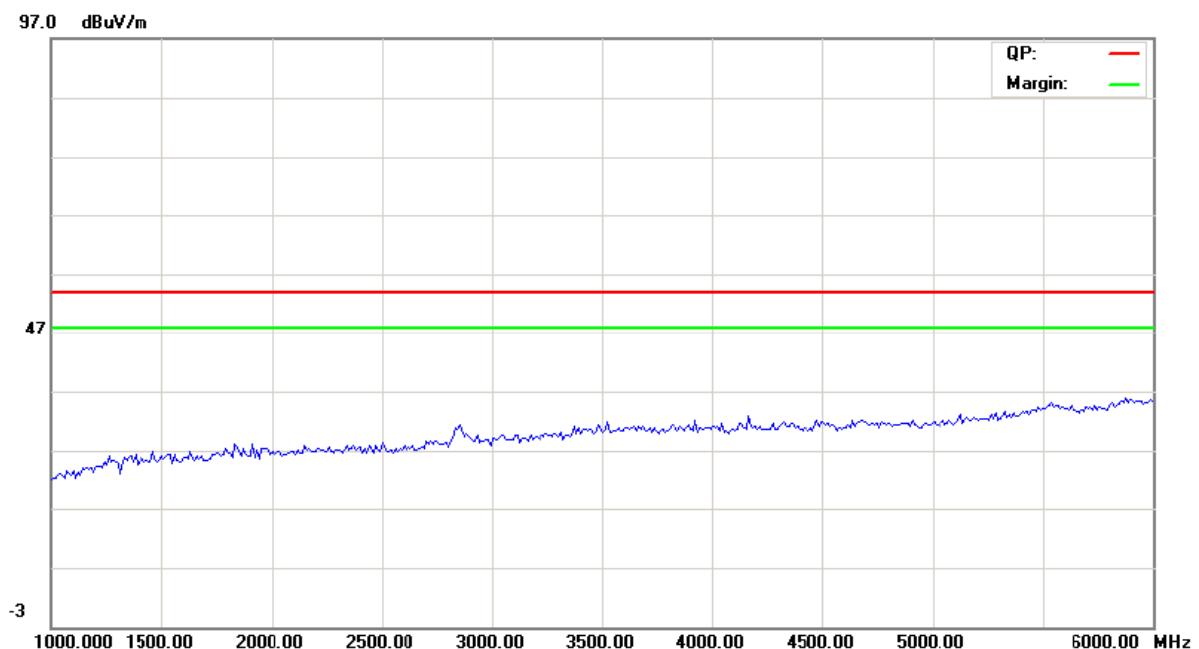
EUT set Condition: Connected to PC and Full Load

Equipment Level: Class B

Results: Pass

Model: MID7022

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
--	--	H	54(AV)

Note: Due to measured radiated level much less than the limit, so necessary take down final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

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

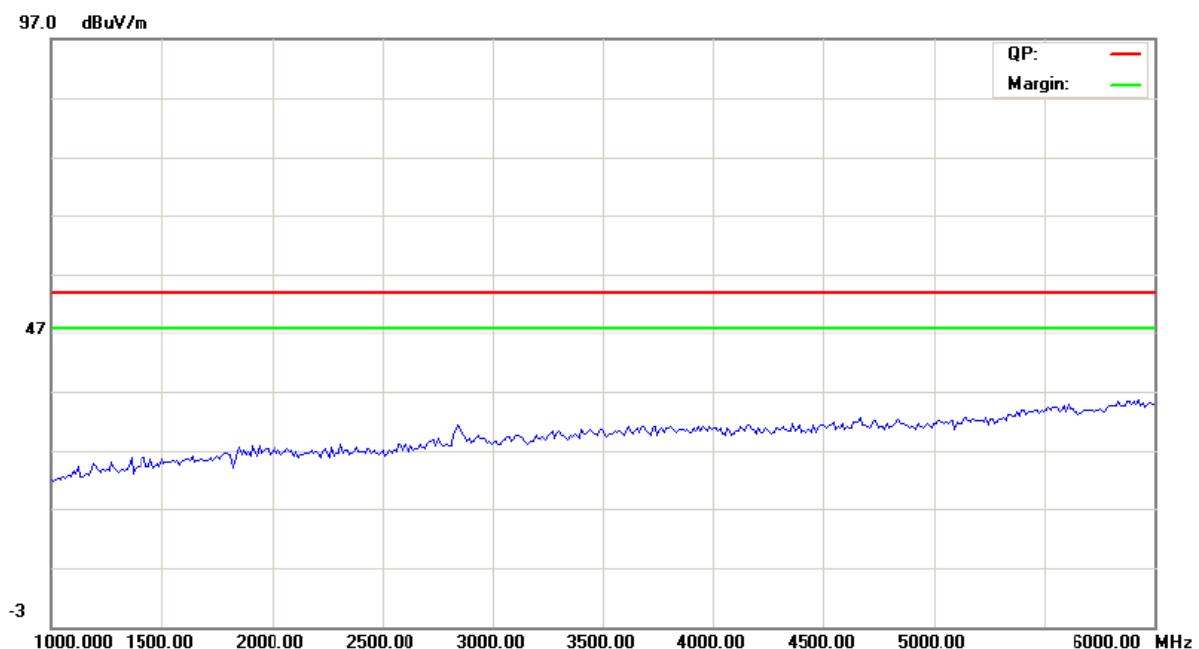
EUT set Condition: Connected to PC and Full Load

Equipment Level: Class B

Results: Pass

Model: MID7022

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
--	--	V	54(AV)

Note: Due to measured radiated level much less than the limit, so necessary take down final radiated level

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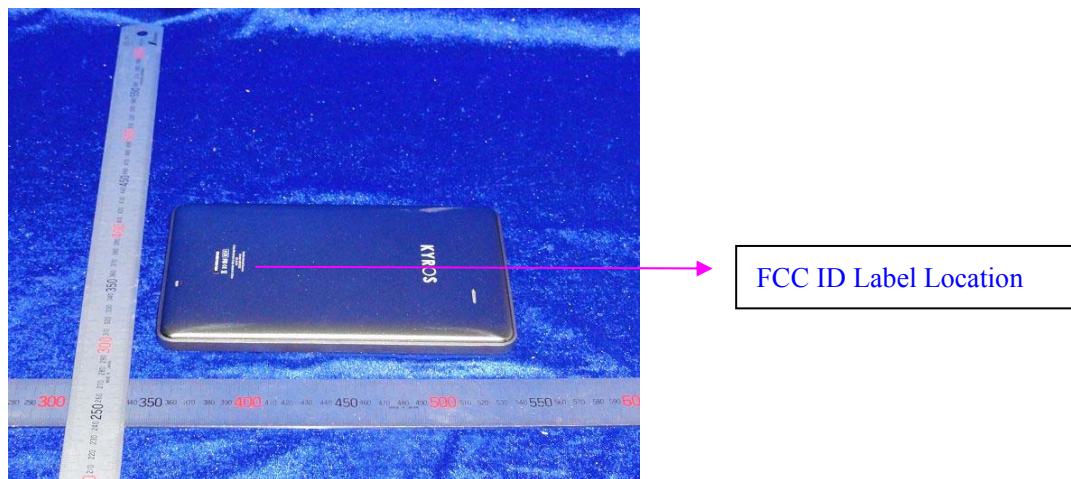
6.0 FCC ID Label

FCC ID: S7IMID7022-7016

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:



7.0 Photo of testing

7.1 Conducted test View--

Please refer to report EMC1106296-01

7.2 Radiated emission test view--

Please refer to report EMC1106296-01

-End of the report-

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