



World Standardization Certification & Testing CO., LTD  
World Standardization Safety and EMC Testing Centre

## FCC ID TEST REPORT

for

**F-Dolphin AirMouse**

**MODEL: KMswand-06, KMswand-08**

**Trade Mark: N/A**

**FCC ID: FYORECEIVER**

**Test Report Number: WSCT11120846E-1**

**Issued Date: March 26, 2012**

Issued for:

**Shenzhen KehWin Technologies Co., Ltd.**

**W2207-2209, Nanshan Digital-Culture Industrial Park, Shenzhen, China**

Issued by:

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### Revision History

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	WSCT11120846E-1	Initial Issue	ALL	Kallen Wang



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## 1 TEST RESULT CERTIFICATION

**Product:** F-Dolphin AirMouse

**Model:** KMsWand-06, KMsWand-08

**Trade Mark:** N/A

**Applicant:** **Shenzhen KehWin Technologies Co., Ltd.**

W2207-2209, Nanshan Digital-Culture Industrial Park, Shenzhen, China

**Manufacturer:** **Shenzhen KehWin Technologies Co., Ltd.**

W2207-2209, Nanshan Digital-Culture Industrial Park, Shenzhen, China

**Tested Date:** December 26, 2011 ~ March 26, 2012

**Test Voltage:** DC 5V(PC Input AC 120V/60Hz)

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B,	Conducted (Main Port)	PASS	Meet Class B limit
ANSI C63.4-2003	Radiated	PASS	Meet Class B limit

Note: 1. The test result judgment is decided by the limit of measurement standard  
2. The information of measurement uncertainty is available upon the customer's request.

### Deviation from Applicable Standard

None

The above equipment has been tested by World Standardization Certification & Testing Co., Ltd and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: \_\_\_\_\_

Date: March 26, 2012

(Jack Ma)

Check By: \_\_\_\_\_

Date: March 26, 2012

(Mike Mo)

Approved By: \_\_\_\_\_

Date: March 26, 2012

(Kallen Wang)



Report reference No.: WSCT11120846E-1

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## 2 EUT DESCRIPTION

<b>Product</b>	F-Dolphin AirMouse
<b>Trade Mark</b>	N/A
<b>Model</b>	KMsWand-06, KMsWand-08
<b>Applicant</b>	Shenzhen KehWin Technologies Co., Ltd.
<b>EUT Type</b>	<input checked="" type="checkbox"/> Engineering Sample <input type="checkbox"/> Product Sample <input type="checkbox"/> Mass Product Sample
<b>Serial Number</b>	N/A
<b>Power Rating</b>	DC 5V
<b>DC Line</b>	N/A

### I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
USB Port	1	1

Note: N/A stand for no applicable.

### Models difference

No.	Model Number	Tested With
1	KMsWand-06	<input checked="" type="checkbox"/>
2	KMsWand-08	<input type="checkbox"/>

NOTE: KMsWand-06 is tested model, other models are derivative models, The models are identical in circuit and PCB layout, only different on the model names, So the test data of KMsWand-06 can represent the remaining models.

### 3 TEST METHODOLOGY

#### 3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the thereafter additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode		
Emission	Conducted Emission	Mode 1: Operating
	Radiated Emission	Mode 1: Operating

After the preliminary scan, the following test mode was found to produce the highest emission level.

The Worst Test Mode		
Emission	Conducted Emission	Mode : Operating
	Radiated Emission	Mode : Operating

Then, the EUT configuration and cable configuration of the above highest emission mode was chosen for all final test items.

#### 3.2. EUT SYSTEM OPERATION

1. Set up EUT with the relative support equipments.
2. Make sure the EUT worked normally during the test.



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Revised: None

## 4 SETUP OF EQUIPMENT UNDER TEST

### 4.1. DESCRIPTION OF SUPPORT UNITS

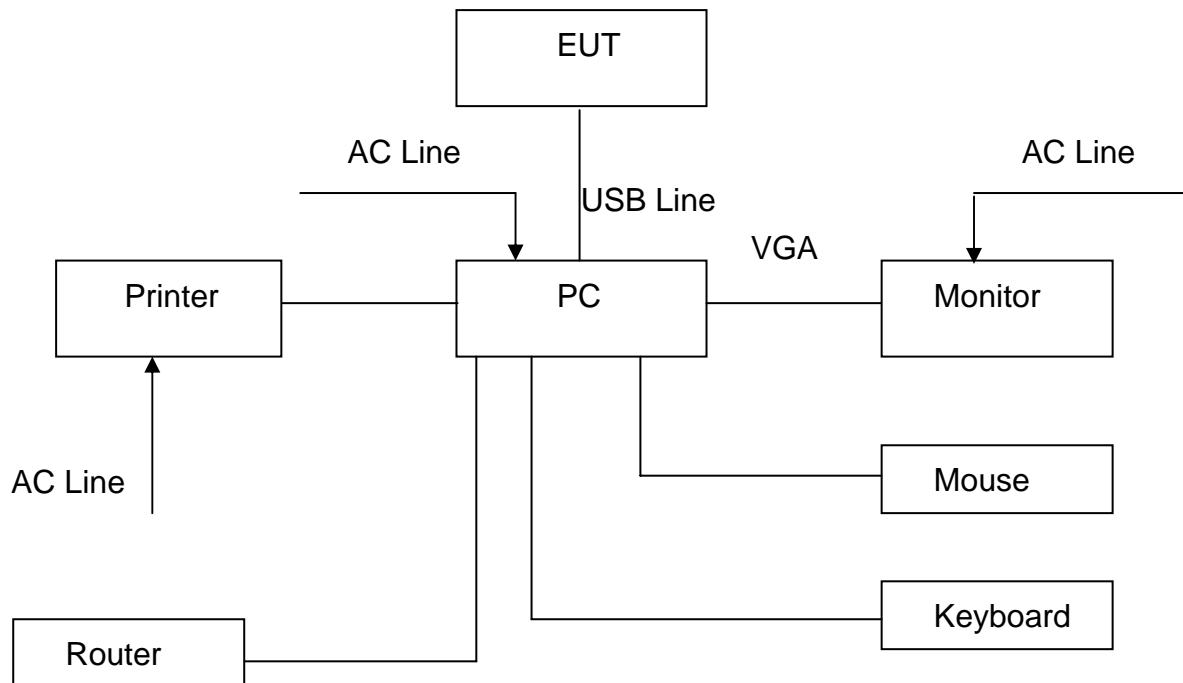
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	PC	dx2700	CNG7140T7P	N/A	HP	N/A	N/A
2	Monitor	HPL1706V	CND74535YZ	N/A	HP	N/A	N/A
3	Keyboard	SK-2880	435302-AA1	N/A	HP	N/A	N/A
4	Mouse	N/A	N/A	N/A	HP	N/A	N/A
5	Router	N/A	N/A	N/A	Canon	N/A	N/A
6	Printer	R2900	N/A	N/A	EPSON	N/A	N/A

**Note:**

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 4.2. CONFIGURATION OF SYSTEM UNDER TEST



(EUT: F-Dolphin AirMouse)

## 5 FACILITIES AND ACCREDITATIONS

### 5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at

**World Standardization Certification & Testing CO., LTD.**

**Building A, Baoshi Road, Baoshi Science & Technology Park, Bao'an District, Shenzhen, Guangdong, China**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC (The certificate registration number is 131628)
Japan	TIMCO (The certificate registration number is Q2001)
Canada	VCCI (The certificate registration number is C-2912, R-2662)
	<b>INDUSTRY CANADA</b>
	(The certificated registration number is 7700A-1)
Germany	TUV
	(The certificate registration number is UA50138086-0001,UA50138086-0002)
	EMCC (The certificated registration number is 080380)
China	CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct.org.cn>

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency		Uncertainty
Conducted emissions	150kHz~30MHz		+/- 3.59dB
Radiated emissions	Horizontal	30MHz ~ 200MHz	+/- 4.77dB
		200MHz ~1000MHz	+/- 4.93dB
	Vertical	30MHz ~ 200MHz	+/- 5.04dB
		200MHz ~1000MHz	+/- 4.93dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



## 6 CONDUCTED EMISSION MEASUREMENT

### 6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**NOTE:**

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from EUT or system shall not exceed the level of field strengths specified above.

### 6.2. TEST INSTRUMENTS

Conducted Emission Shielding Room Test Site 843				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	12/16/2012
LISN	LS	LS16	16010222119	12/16/2012
LISN(EUT)	Mestec	AN3016	04/10040	12/22/2012

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to International system of unit (SI).

2. N.C.R = No Calibration Request.

## 6.3. TEST PROCEDURES

### Procedure of Preliminary Test

The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in Item 3.1 were scanned during the preliminary test.

After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

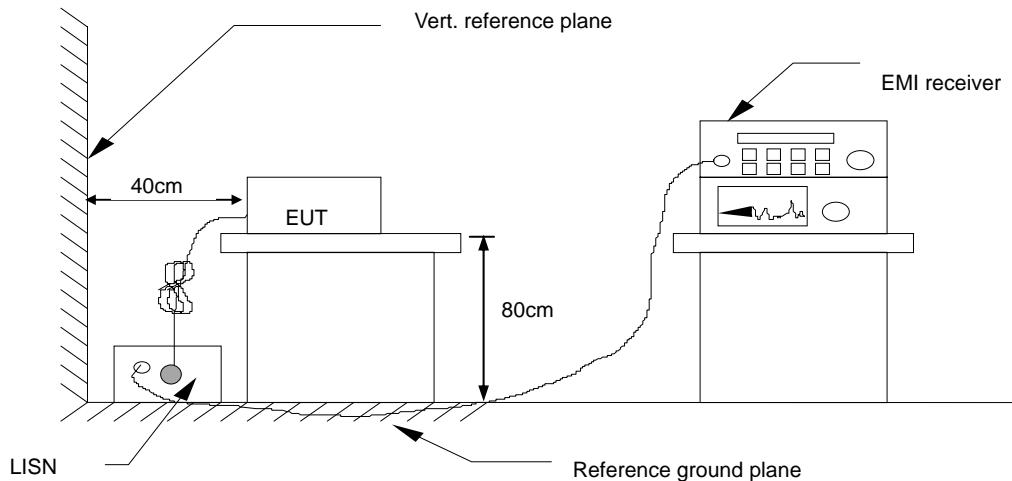
### Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

## 6.4. TEST SETUP



For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

## 6.5. TEST RESULTS

<b>Model No.</b>	KMsWand-06	<b>6dB Bandwidth</b>	120 KHz
<b>Environmental Conditions</b>	26°C, 60% RH, 100.0kPa	<b>Test Mode</b>	Operating
<b>Detector Function</b>	Peak / Quasi-peak/AV	<b>Test Result</b>	Pass
<b>Test By</b>	Jack Ma		

NOTE: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

2. “--” denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.

Freq. = Emission frequency in MHz

Reading level(dBuV) = Receiver reading

Corr. Factor (dB) = Attenuator Factor+ Cable loss

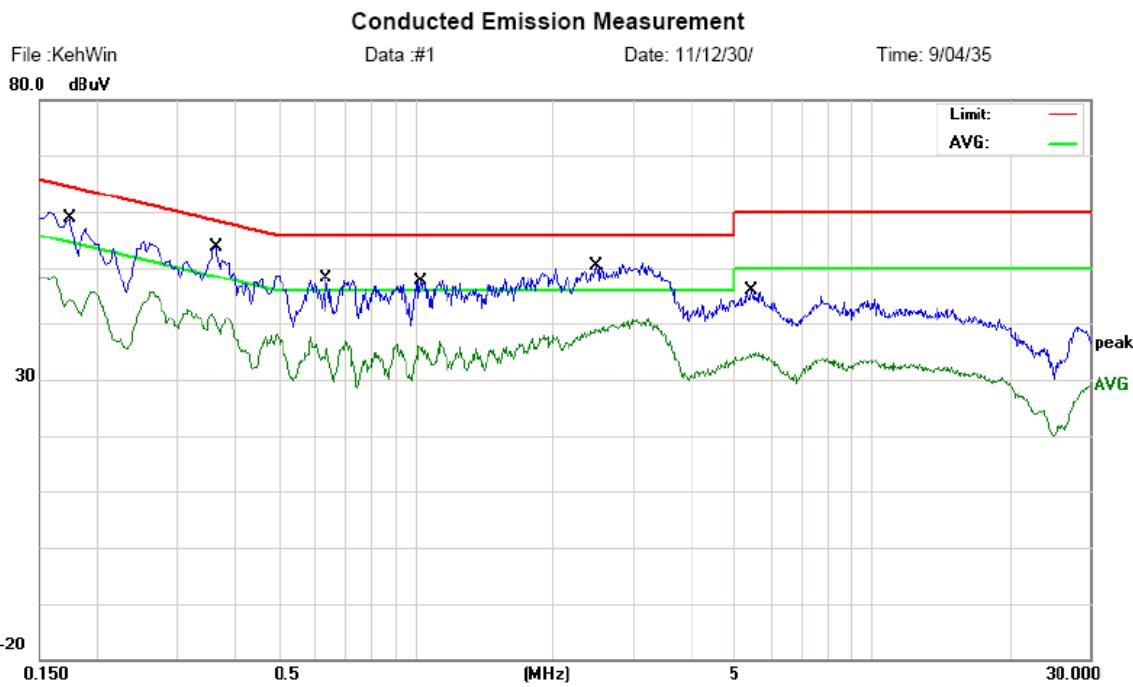
Level (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) – Limits (dBuV)

Q.P.=Quasi-Peak

Please refer to following diagram for individual



Site 843 Shielded Room

Phase: L1

Temperature: 26

Limit: FCC Part15 B Conduction(QP)

Power:

Humidity: 60 %

EUT: F-Dolphin AirMouse

M/N: KMsWand-06

Mode: Operating

Note: DC 5V(PC Input AC 120V/60Hz)

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1731	48.29	10.38	58.67	64.81	-6.14	QP	
2		0.1731	33.80	10.38	44.18	54.81	-10.63	AVG	
3 *		0.3634	43.03	10.55	53.58	58.65	-5.07	QP	
4		0.3634	30.32	10.55	40.87	48.65	-7.78	AVG	
5		0.6380	37.36	10.78	48.14	56.00	-7.86	QP	
6		0.6380	24.66	10.78	35.44	46.00	-10.56	AVG	
7		1.0300	37.15	10.50	47.65	56.00	-8.35	QP	
8		1.0300	25.04	10.50	35.54	46.00	-10.46	AVG	
9		2.4900	39.78	10.54	50.32	56.00	-5.68	QP	
10		2.4900	28.34	10.54	38.88	46.00	-7.12	AVG	
11		5.4699	35.29	10.58	45.87	60.00	-14.13	QP	
12		5.4699	23.45	10.58	34.03	50.00	-15.97	AVG	

\*:Maximum data x:Over limit !:over margin

(Reference Only)

**Conducted Emission Measurement**

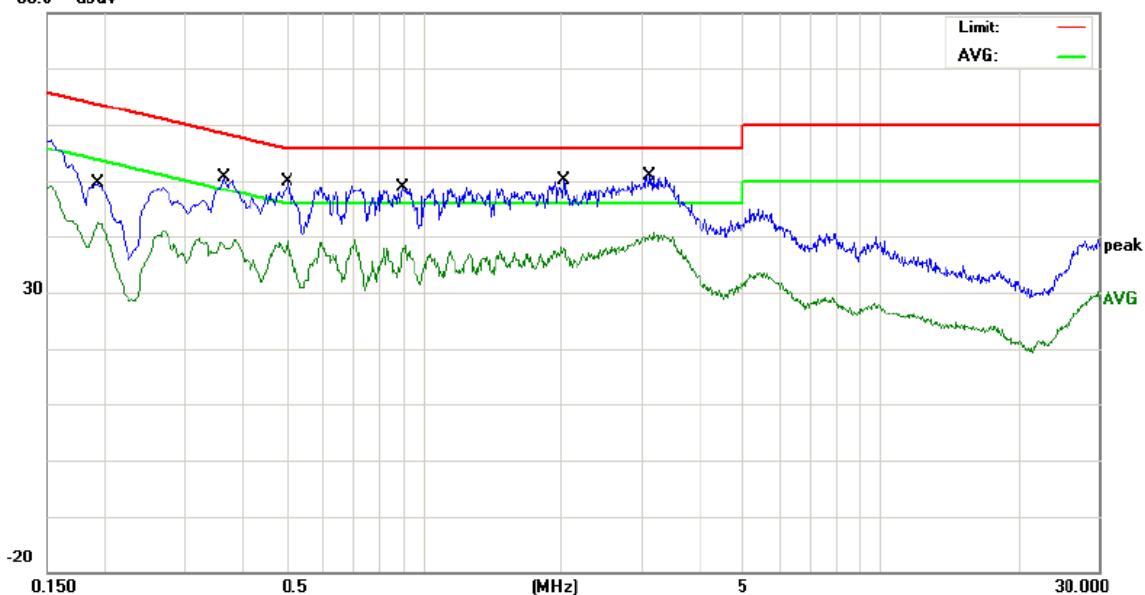
File :KehWin

Data :#2

Date: 11/12/30/

Time: 9/07/50

80.0 dBuV



Site 843 Shielded Room

 Phase: **N**

Temperature: 26

Limit: FCC Part15 B Conduction(QP)

Power:

Humidity: 60 %

EUT: F-Dolphin AirMouse

M/N: KMsWand-06

Mode: Operating

Note: DC 5V(PC Input AC 120V/60Hz)

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1924	39.09	10.32	49.41	63.93	-14.52	QP	
2		0.1924	31.37	10.32	41.69	53.93	-12.24	AVG	
3		0.3673	39.77	10.55	50.32	58.56	-8.24	QP	
4		0.3673	27.70	10.55	38.25	48.56	-10.31	AVG	
5		0.5060	39.40	10.42	49.82	56.00	-6.18	QP	
6		0.5060	28.47	10.42	38.89	46.00	-7.11	AVG	
7		0.9020	37.89	10.94	48.83	56.00	-7.17	QP	
8		0.9020	26.86	10.94	37.80	46.00	-8.20	AVG	
9		2.0260	39.57	10.53	50.10	56.00	-5.90	QP	
10		2.0260	27.40	10.53	37.93	46.00	-8.07	AVG	
11	*	3.1300	40.25	10.55	50.80	56.00	-5.20	QP	
12		3.1300	29.69	10.55	40.24	46.00	-5.76	AVG	

\*:Maximum data x:Over limit !:over margin

(Reference Only)



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## 7 RADIATED EMISSION MEASUREMENT

### 7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

#### Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY (MHz)	dBuV/m (At 3m)
	Class B
30~88	40.00
88~216	43.50
216~960	46.00
960~1000	54.00

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

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

### 7.2. TEST INSTRUMENTS

Radiated Emission Test Site 966				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	12/16/2012
Spectrum Analyzer	R&S	FSU	100114	07/14/2012
Pre Amplifier	H.P.	HP8447E	2945A02715	12/16/2012
Bilog Antenna	SUNOL Sciences	JB5	A021907	04/26/2012
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	06/09/2012
System-Controller	CCS	N/A	N/A	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to International system of unit (SI).

2. N.C.R = No Calibration Request.

## 7.3. TEST PROCEDURES

### Procedure of Preliminary Test

The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

Support equipment, if needed, was placed as per ANSI C63.4.

All I/O cables were positioned to simulate typical usage as per ANSI C63.4.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The test mode(s) described in Item 3.1 were scanned during the preliminary test:

After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.

The EUT and worse cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

When measuring emissions above 1GHz, the frequencies of maximum emission shall be determined by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display. It will be advantageous to have prior knowledge of the frequencies of emissions above 1GHz. If the EUT is a device with dimensions approximately equal to that of the measurement antenna beam width, the measurement antenna shall be aligned with the EUT.

### **Procedure of Final Test**

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

For the measurement above 1GHz, use the cable, EUT arrangement, and mode of operation determined in the exploratory testing to produce the emission that has the highest amplitude relative to the limit.

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the antenna in the "cone of radiation" from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.

The antenna may have to be higher or lower than the EUT, depending on the EUT's size and mounting height, but the antenna should be restricted to a range of height of from 1m to 4m above the ground or reference ground plane.

If the transmission line for the measurement antenna restricts its range of height and polarization, the steps needed to ensure the correct measurement of the maximum emissions, shall be described in detail in the report of the measurements.

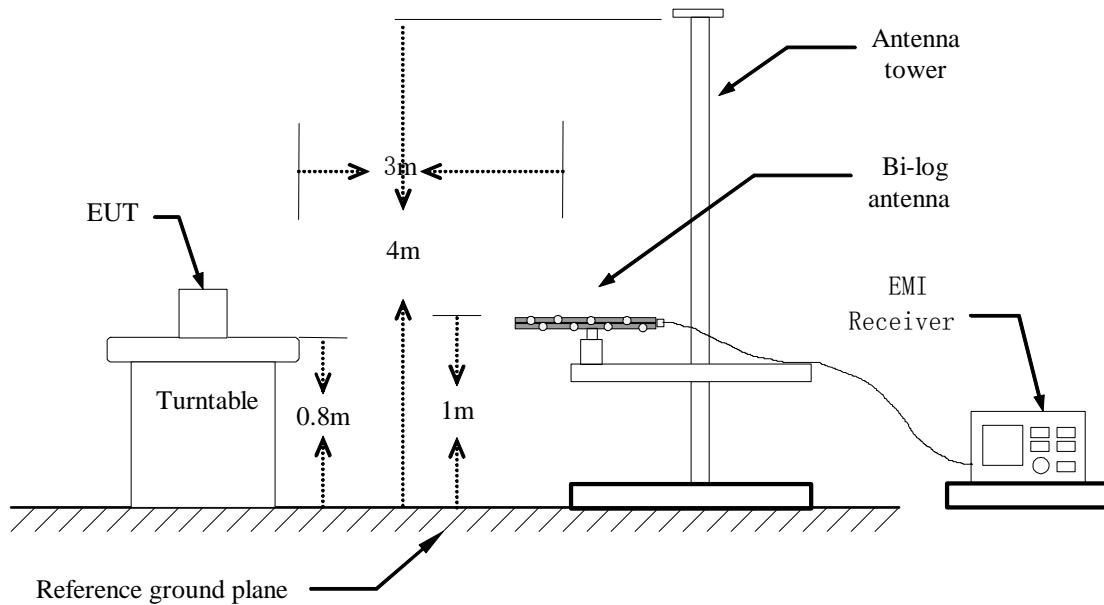
using the procedures above to measure with peak detector function, if the result comply with the average limit specified by the appropriate regulation, record the EUT arrangement, mode of operation, and cable positions used for final radiated emission measurement , this can be done with either diagrams or photographs.

Set the detector function of the measuring instrument to average mode, using the procedures above and remeasure only those emissions that complied with the peak limits but exceeded the average limits.

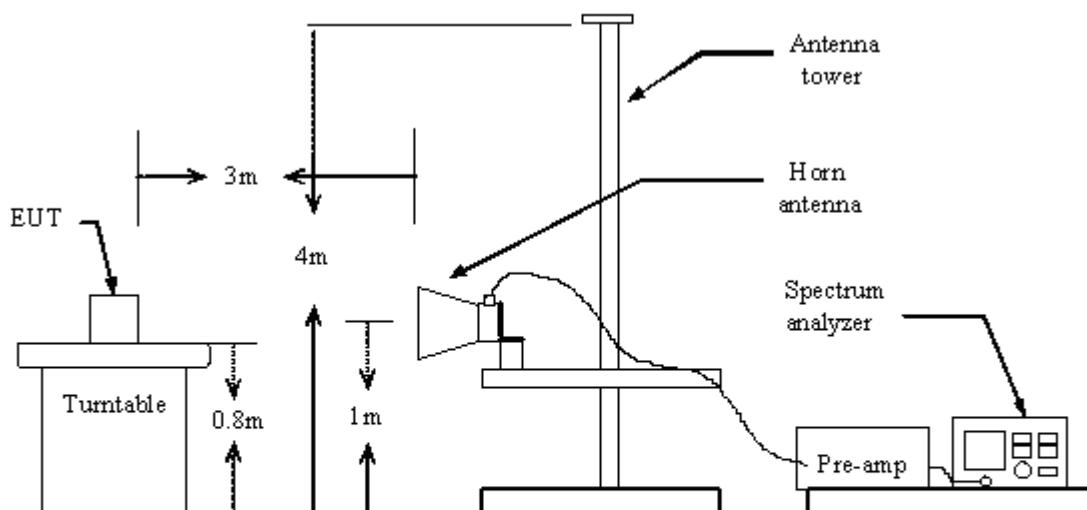
Recorded at least the six highest emissions.

## 7.4. TEST SETUP

### Below 1GHz



### Above 1GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



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## 7.5. TEST RESULTS

<b>Model No.</b>	KMsWand-06	<b>Test Mode</b>	Operating
<b>Environmental Conditions</b>	26°C, 55% RH, 100.0kPa	<b>6dB Bandwidth</b>	120 KHz
<b>Antenna Pole</b>	Vertical / Horizontal	<b>Antenna Distance</b>	3m
<b>Detector Function</b>	Peak / Quasi-peak	<b>Test Result</b>	Pass

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Please refer to following diagram for individual

### Radiated Emission Measurement

File :KehWin

Data :#51

Date: 2011-12-31

Time: 15:56:29

70.0 dBuV/m



Site 966

 Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15B\_ RE 3M

Power:

Humidity: 55 %

EUT: F-Dolphin AirMouse

Distance:

M/N: KMsWand-06

Mode: Operating

Note: DC 5V(PC Input AC 120V/60Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	
1		107.6000	34.06	-8.52	25.54	43.50	-17.96	QP		
2	*	179.3800	32.53	-6.64	25.89	43.50	-17.61	QP		
3		316.1500	23.82	-4.66	19.16	46.00	-26.84	QP		
4		556.7100	21.77	1.83	23.60	46.00	-22.40	QP		
5		654.6800	21.04	4.30	25.34	46.00	-20.66	QP		
6		872.9300	23.26	3.41	26.67	46.00	-19.33	QP		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Radiated Emission Measurement**

File :KehWin

Data :#50

Date: 2011-12-31

Time: 15:55:54

70.0 dBuV/m



Site 966

 Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B\_ RE 3M

Power:

Humidity: 55 %

EUT:F-Dolphin AirMouse

Distance:

M/N: KMsWand-06

Mode: Operating

Note: DC 5V(PC Input AC 120V/60Hz)

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					Degree
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	71.7100	38.20	-13.21	24.99	40.00	-15.01	QP		
2		179.3800	23.99	-6.07	17.92	43.50	-25.58	QP		
3		397.6300	22.20	-0.51	21.69	46.00	-24.31	QP		
4		553.8000	21.35	0.18	21.53	46.00	-24.47	QP		
5		800.1800	22.56	4.77	27.33	46.00	-18.67	QP		
6		978.6600	22.28	6.56	28.84	54.00	-25.16	QP		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)



Report reference No.: WSCT11120846E-1

Issued: March 26, 2012

Revised: None

### Test Result Above 1GHz

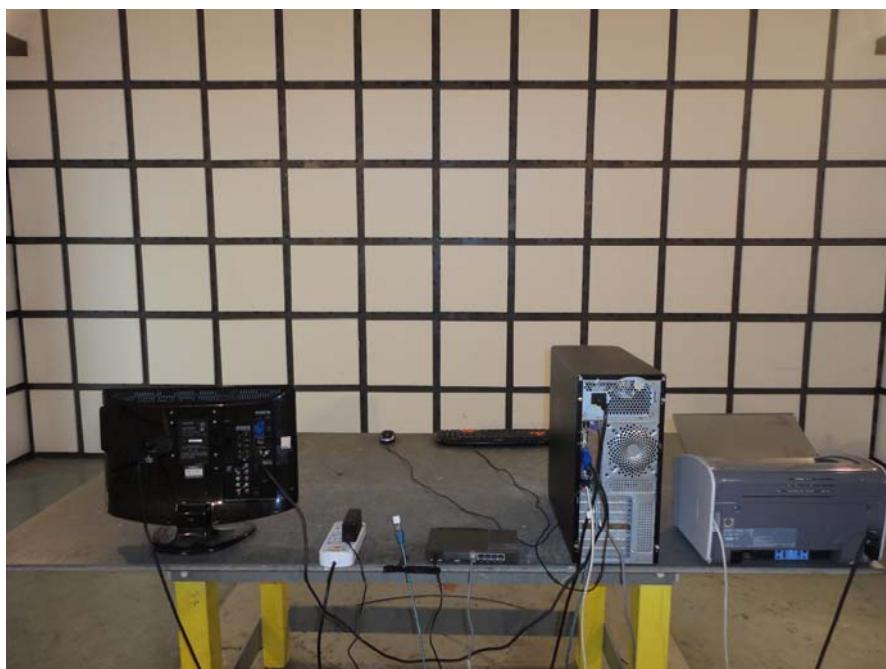
Frequency (MHz)	Ant. Pol.	Corr.Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin	Note	Result
1508.00	H	27.81	58.95	74.00	-15.05	Peak	Pass
1508.00	H	27.81	43.21	54.00	-10.79	AV	Pass
1602.00	V	28.48	59.06	74.00	-14.94	Peak	Pass
1602.00	V	28.48	44.24	54.00	-9.76	AV	Pass

Note: 1. Level = Correction factor + Meter Reading  
2. Correction factor=antenna factor + cable loss - preamplifier gain.  
3. means to the measure is no necessary, due to the PK value comply with AV limits.  
4. 9KHz-30MHz the measurements were greater than 20dB below the limit.

## 8 PHOTOGRAPHS OF THE TEST CONFIGURATION

### CONDUCTED EMISSION TEST

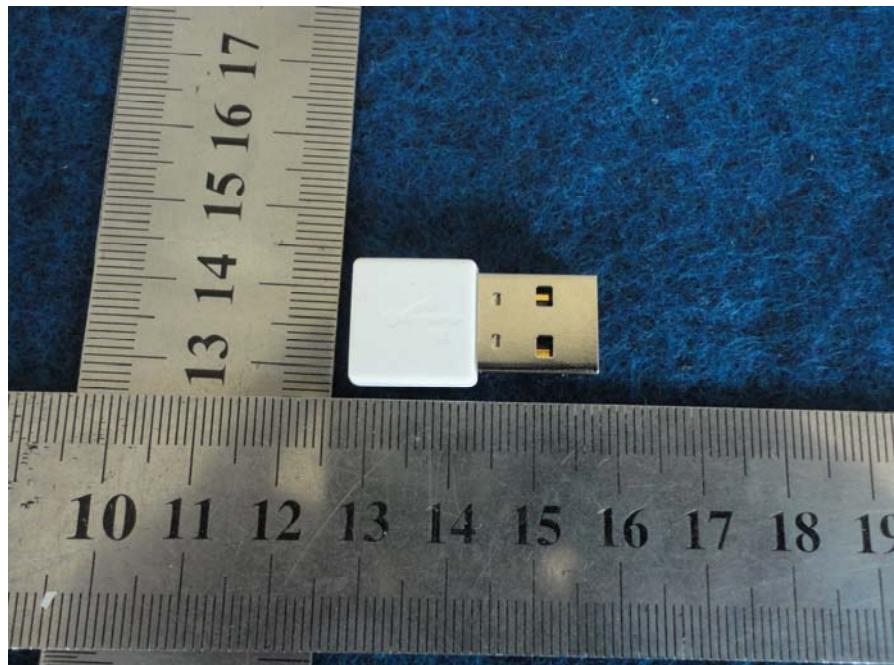


**RADIATED EMISSION TEST BELOW 1GHz**

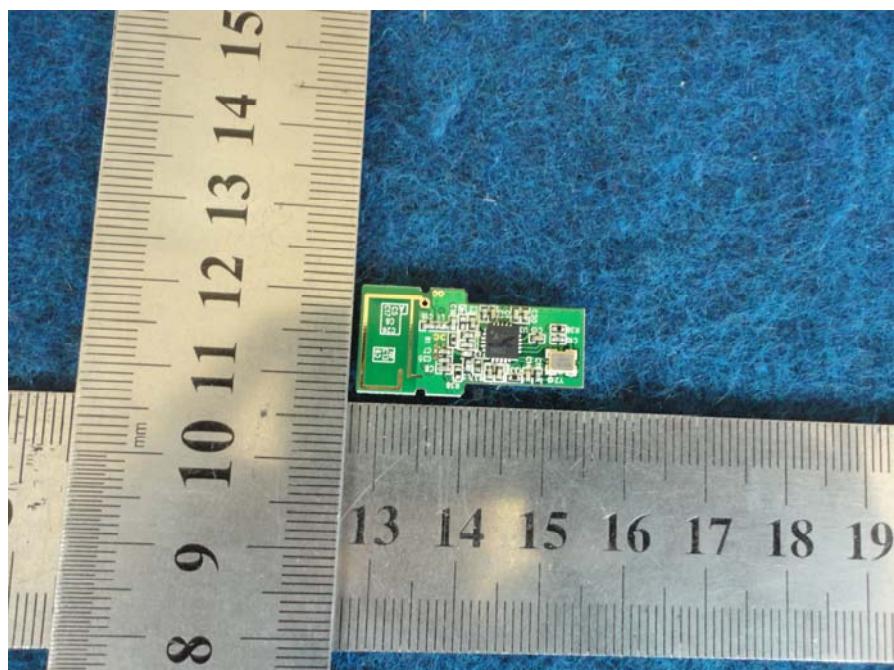
**RADIATED EMISSION TEST ABOVE 1GHz**

## 9 PHOTOGRAPHS OF EUT

Appearance photograph of EUT



PCB photograph of EUT



## PCB photograph of EUT

