



## STC Test Report

Date : 2012-07-19

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No. : MH186689

**Applicant (C01494):**

NINCO DESARROLLOS S.L.  
Ctra.de l'Hospitalet 32, 08940 Cornellà, Barcelona, Spain

**Manufacturer:**

NINCO DESARROLLOS S.L.  
Ctra.de l'Hospitalet 32, 08940 Cornellà, Barcelona, Spain

**Description of Sample(s):**

Submitted sample(s) said to be  
Product: WI.CO Wireless Controller Kit  
Brand Name: NINCO  
Model Number: 10413TX  
FCC ID: HOG10413TX

**Date Sample(s) Received:** 2012-05-10

**Date Tested:** 2012-06-22

**Investigation Requested:**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2011 and ANSI C63.4:2009 for FCC Certification.

**Conclusion(s):**

The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remark(s):**

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Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

**The Hong Kong Standards and Testing Centre Ltd.**

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### **1.0 General Details**

#### **1.1 Equipment Under Test [EUT] Description of Sample(s)**

Product:	WI.CO Wireless Controller Kit
Manufacturer:	NINCO DESARROLLOS S.L.
Brand Name:	NINCO
Model Number:	10413TX
Input Voltage:	4.5Vd.c. ("AA" size battery×3)

#### **1.2 Description of EUT Operation**

The Equipment Under Test (EUT) is a NINCO DESARROLLOS S.L., WI.CO Wireless Controller Kit. The transmission transmitter operating in the 2.4GHz ISM frequency band. The EUT continues to transmit while Key is being pressed. Modulation by digital data; and type is GFSK modulation.

#### **1.3 Date of Order**

2012-05-10

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

1 Sample

#### **1.5 Test Duration**

2012-06-22

#### **1.6 Country of Origin**

China

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### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2011 Regulations and ANSI C63.4:2009 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

EMISSION Results Summary					
Test Condition	Test Requirement	Test Method	Class / Severity		
			Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions**

Test Requirement: FCC 47CFR 15.249  
Test Method: ANSI C63.4:2009  
Test Date: 2012-06-22  
Mode of Operation: Tx mode

#### **Test Method:**

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

\*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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### Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

RBW: 10kHz  
VBW: 30kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

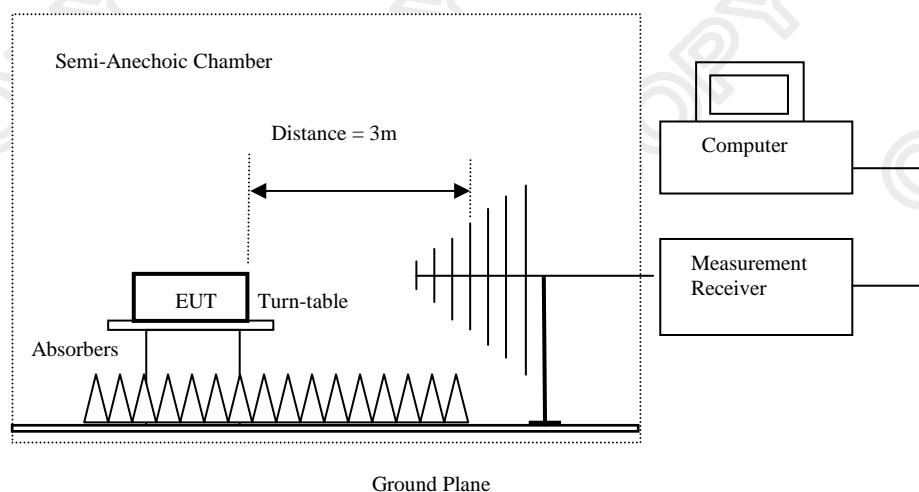
30MHz – 1GHz (QP)

RBW: 120kHz  
VBW: 120kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

Above 1GHz (Pk & Av)

RBW: 3MHz  
VBW: 3MHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

### Test Setup:



Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

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### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

#### Results of Tx mode (Low frequency channel): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2401.5	44.9	35.4	80.3	10,351.4	500,000	Vertical
*	4803.0	8.4	41.5	49.9	312.6	5,000
	7204.5	1.3	48.8	50.1	319.9	5,000
	9606.0				5,000	Vertical
*	12007.5				5,000	Vertical
	14409.0				5,000	Vertical
	16810.5				5,000	Vertical
*	19212.0				5,000	Vertical
	21613.5				5,000	Vertical
	24015.0				5,000	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2401.5	30.3	35.4	65.7	1,927.5	50,000	Vertical
*	4803.0	-4.6	41.5	36.9	500	Vertical
	7204.5	-12.2	48.8	36.6	500	Vertical

#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

### Results of Tx mode (Middle frequency channel): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m	Correction Factor	Field Strength	Field Strength	Limit @3m	E-Field Polarity
	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m	
2440.5	46.6	35.5	82.1	12,735.0	500,000	Vertical
*	4880.0	7.9	41.4	49.3	291.7	5,000
*	7320.0	0.5	48.7	49.2	288.4	5,000
9762.0					5,000	Vertical
*	12202.5				5,000	Vertical
*	14643.0				5,000	Vertical
*	17083.5				5,000	Vertical
*	19524.0				5,000	Vertical
*	21964.5				5,000	Vertical
24405.0					5,000	Vertical

### Field Strength of Fundamental Emissions Average Value

Frequency MHz	Measured Level @3m	Correction Factor	Field Strength	Field Strength	Limit @3m	E-Field Polarity
	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m	
2440.5	30.3	35.5	65.8	1,949.8	50,000	Vertical
*	4881.0	-4.8	41.4	36.6	67.6	500
*	7321.5	-12.9	48.7	35.8	61.7	500

#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

### Results of Tx mode (High frequency channel): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @ 3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2480.5	47.8	35.8	83.6	15,135.6	500,000	Horizontal
* 4961.0	7.8	41.4	49.2	288.4	5,000	Horizontal
7441.5	2.0	48.6	50.6	338.8	5,000	Horizontal
9922.0					5,000	Vertical
* 12402.5					5,000	Vertical
14883.0					5,000	Vertical
17363.5					5,000	Vertical
* 19844.0					5,000	Vertical
22324.5					5,000	Vertical
24805.0					5,000	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @ 3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2480.5	32.9	35.8	68.7	2,722.7	50,000	
* 4961.0	-4.6	41.4	36.8	69.2	500	Horizontal
7441.5	-12.5	48.6	36.1	63.8	500	Horizontal

#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty	:	30MHz to 1GHz	5.2dB
		1GHz to 18GHz	5.1dB

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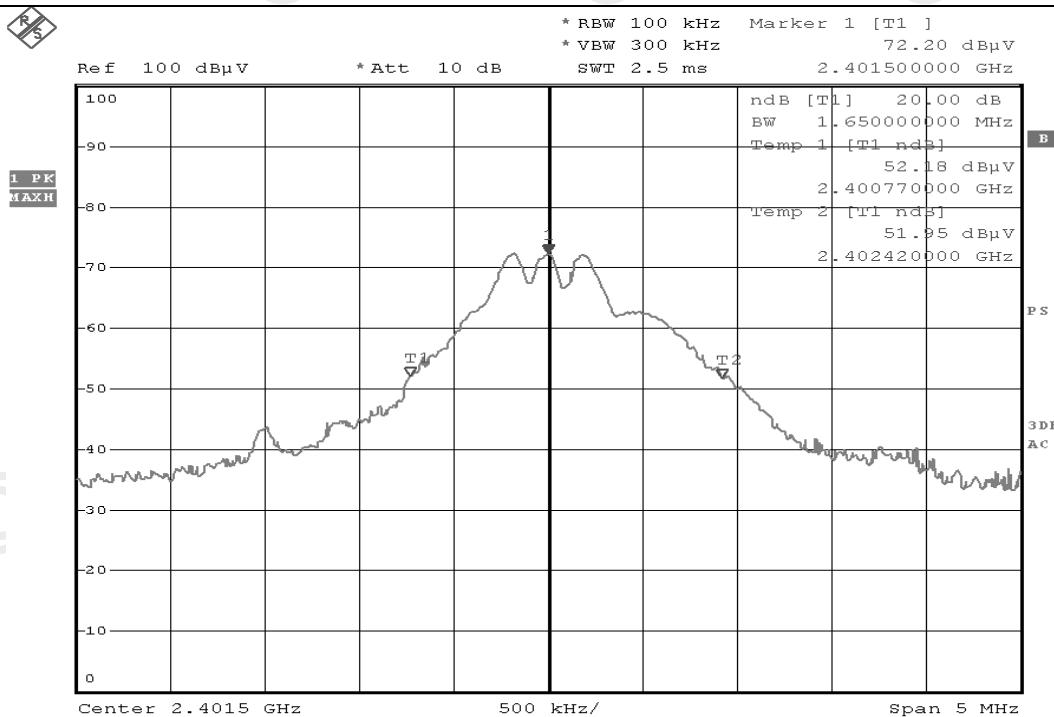
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### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2401.5	1650

### 20dB Bandwidth of Fundamental Emission



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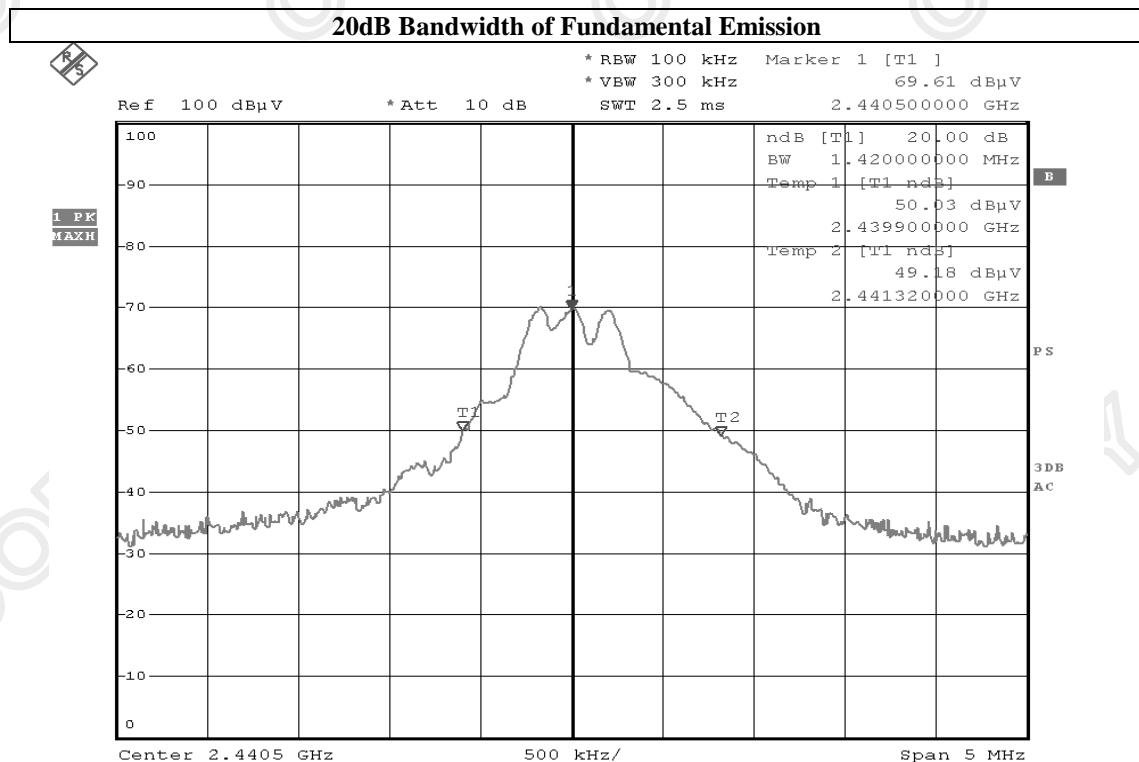
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### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2440.5	1420



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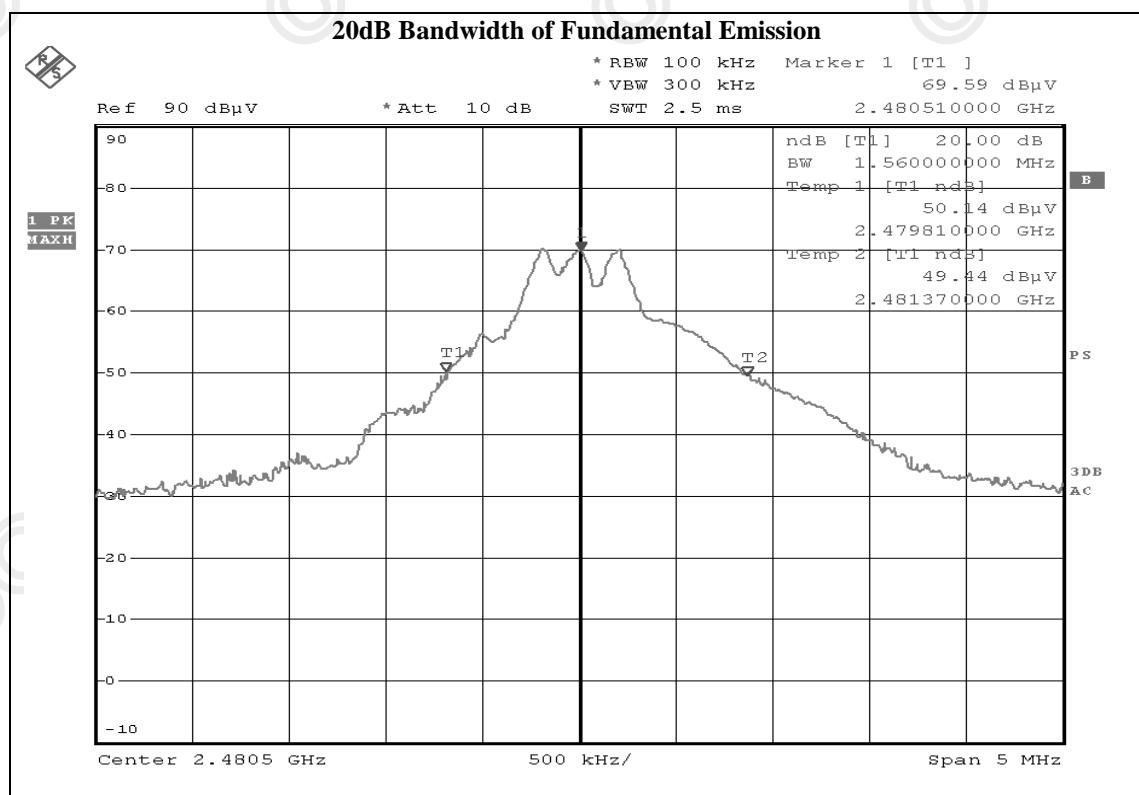
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### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [kHz]
2480.5	1560



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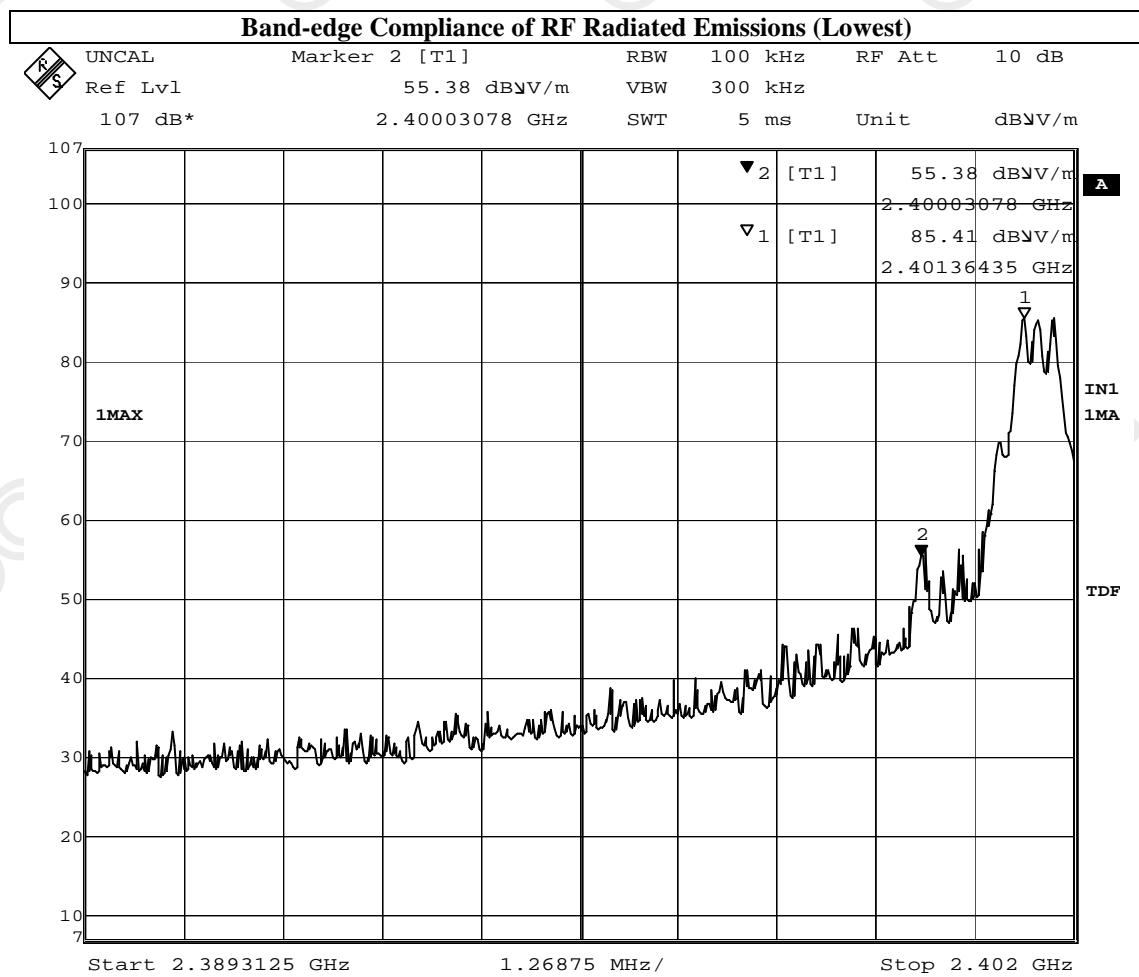
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### Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2400.0 – Lowest Fundamental	55.38



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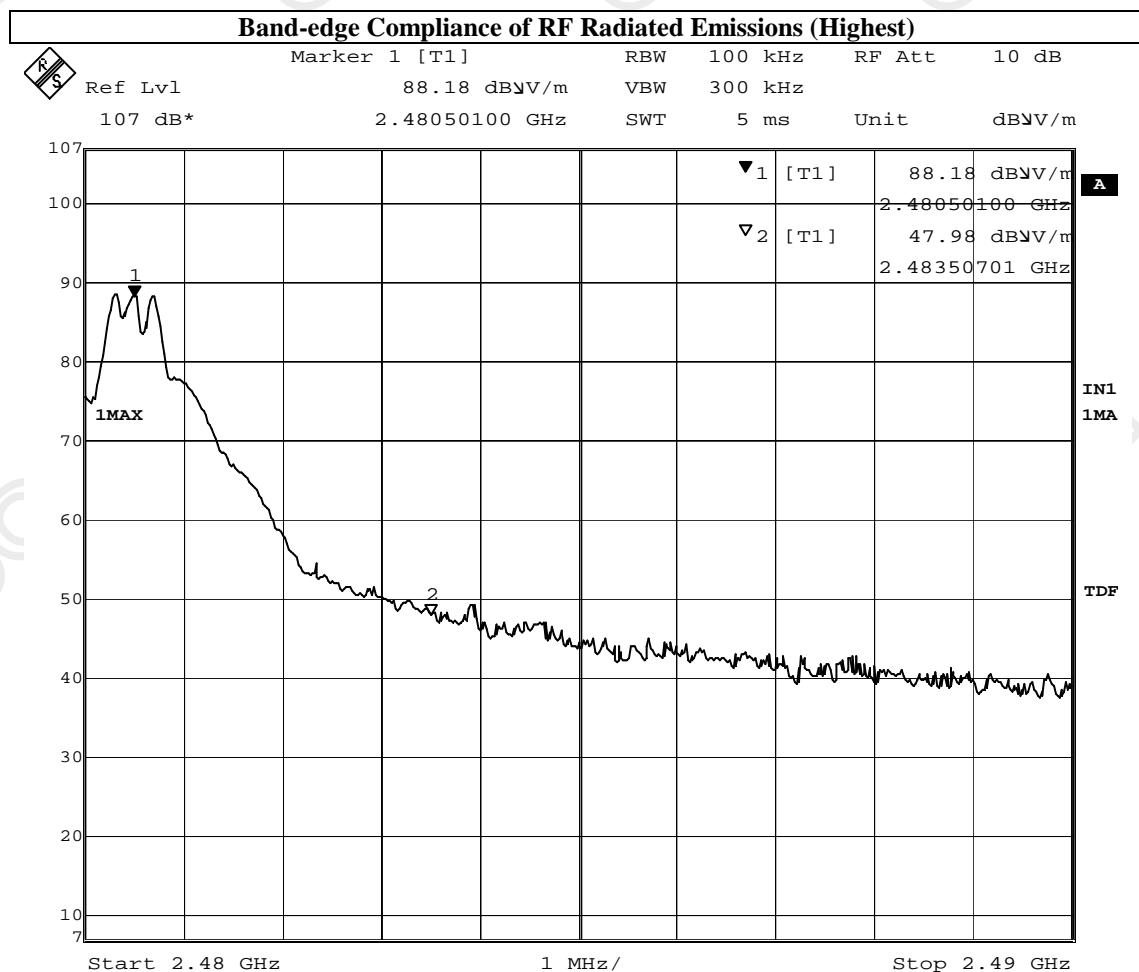
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### Band Edge Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
Highest Fundamental – 2483.5	88.18



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### **Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:**

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu$ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### **Results of Tx mode (9kHz – 30MHz): PASS**

Emissions detected are more than 20 dB below the FCC Limits

### **Results of Tx mode (30MHz – 18GHz): PASS**

<b>Radiated Emissions Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Level @3m $\mu$ V/m	Limit @3m $\mu$ V/m
30.4	Horizontal	33.1	40.0	45.2	100
128.0	Horizontal	32.4	43.5	41.7	150
150.0	Horizontal	30.2	43.5	32.4	150
44.1	Vertical	32.3	40.0	41.2	100
192.0	Vertical	28.9	43.5	27.9	150
503.3	Vertical	38.4	46.0	83.2	200

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB  
1GHz to 18GHz 5.1dB

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### Appendix A

#### Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM276	Broadband Horn Antenna	A-INFOMW	JXTXLB-10180-SF	J2031090903007	2010/08/21	2013/08/21
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Lingren	FACT-3	--	2011/10/25	2012/10/25
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2011/03/01	2013/03/01
EM229	EMI Test Receiver	R&S	ESIB40	100248	2012/05/03	2013/05/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2010/09/07	2012/09/07

Remarks:-

CM      Corrective Maintenance

N/A      Not Applicable or Not Available

TBD      To Be Determined

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### Appendix B

#### Photographs of EUT

Front View of the product



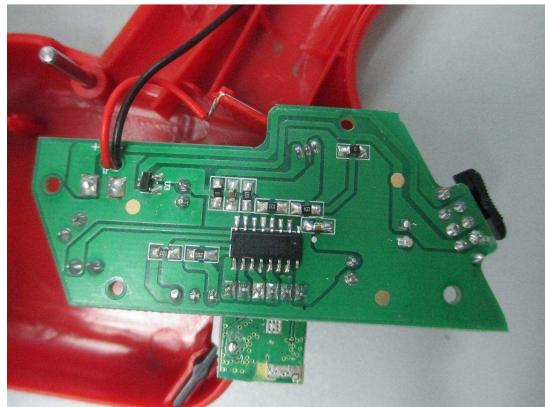
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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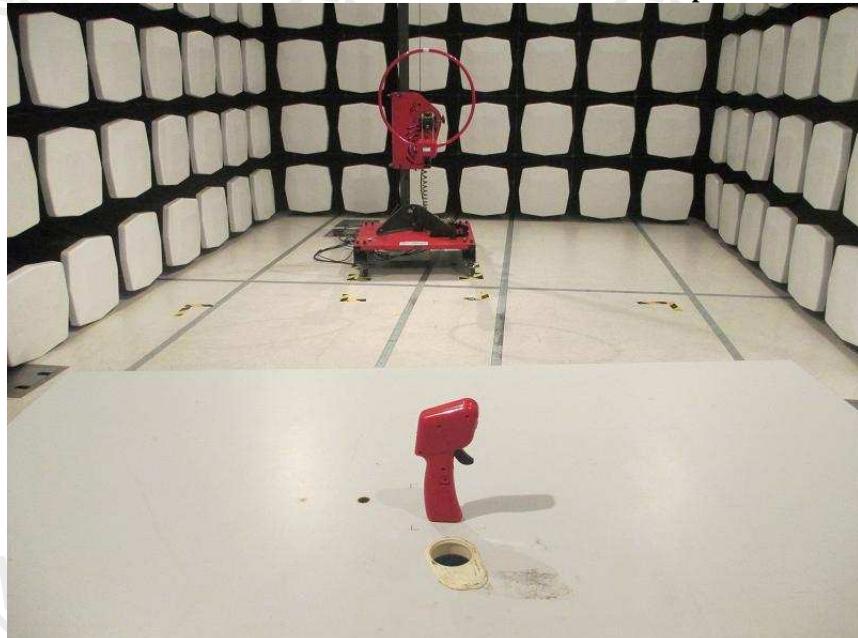
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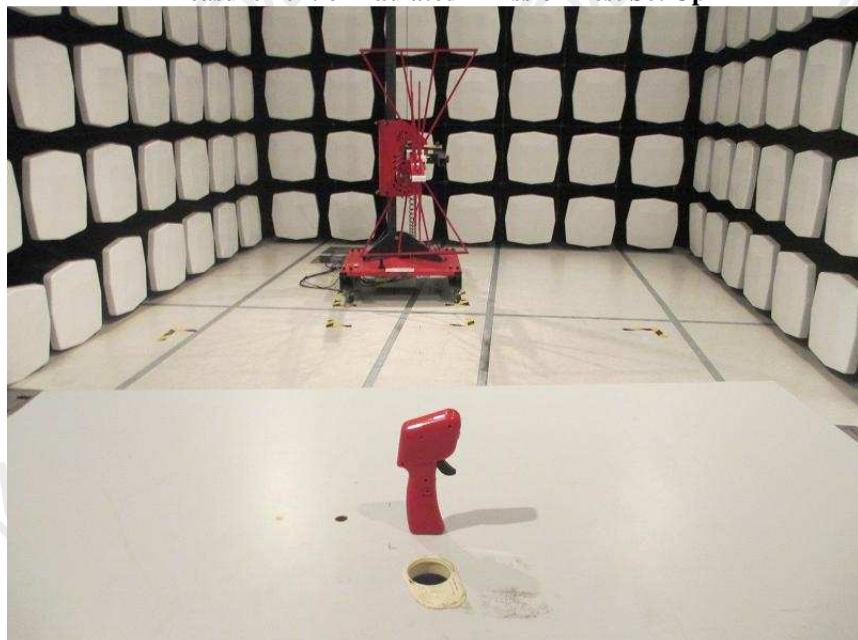
No. : MH186689

### Photographs of EUT

**Measurement of Radiated Emission Test Set Up**



**Measurement of Radiated Emission Test Set Up**



**The Hong Kong Standards and Testing Centre Ltd.**

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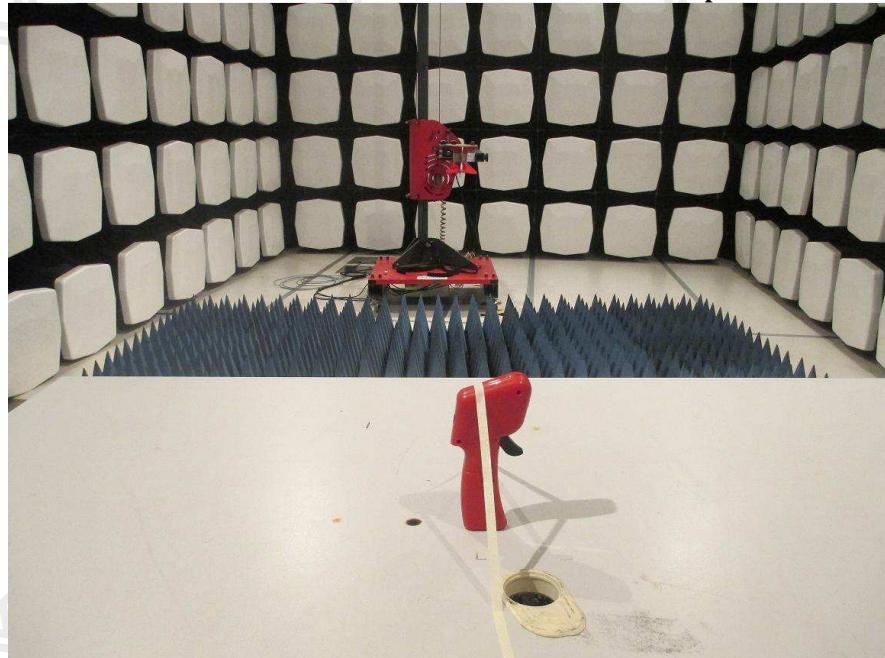
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\*\*\*\*\* End of Test Report \*\*\*\*\*

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