



STC Test Report

Date : 2010-02-05

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No. : HM164892

Applicant (XLT001): X 10 (USA) Inc.
620 Naches Ave SW, Building A, Renton WA 98057,
United States

Manufacturer: X-10 Electronics (Shenzhen) Co., Ltd.
Together Rich Industrial Park B, Sanwei Industrial District,
Xixiang Town, Baoan Country, Shengzhen, China

Description of Sample(s): Submitted sample(s) said to be:
Product: IR/RF Remote
Brand Name: Motorola
Model Number: MXv3RF
FCC ID: B4S-MXV3RF

Date Sample(s) Received: 2010-02-02

Date Tested: 2010-02-04

Investigation Requested: Perform ElectroMagnetic Interference measurement in
accordance with FCC 47CFR [Codes of Federal Regulations]
Part 15: 2009 and ANSI C63.4:2003 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): ----

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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Appendix A

List of Measurement Equipment

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Duty Cycle Correction During 100 msec

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

1.2 Applicant Detail(s) Applicant

X 10 (USA) Inc.
620 Naches Ave SW, Building A, Renton WA 98057,
United States

Manufacturer

X-10 Electronics (Shenzhen) Co., Ltd.
Together Rich Industrial Park B, Sanwei Industrial District,
Xixiang Town, Baoan Country, Shengzhen, China

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1.3 Equipment Under Test [EUT] Description of Sample

Submitted sample(s) said to be:

Product: IR/RF Remote
Manufacturer: X-10 Electronics (Shenzhen) Co., Ltd.
Brand Name: Motorola
Model Number: MXv3RF
Input Voltage: 3Vd.c. ("AA" size battery x 2)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is an X 10 (USA) Inc., The EUT is an IR/RF remote control transmitter operating in the 2.4GHz ISM frequency band. The EUT continues to transmit while Key is being pressed. It is FSK transmitter, Modulation by digital data; and type is FSK modulation.

1.4 Date of Order

2010-02-02

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2010-02-04

1.7 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: 2009 Regulations and ANSI C63.4:2003 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input 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

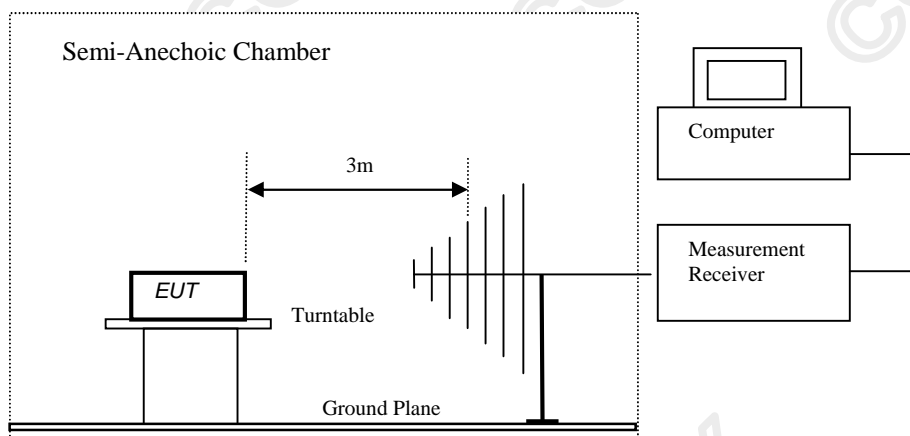
Test Requirement: FCC 47CFR 15.249
Test Method: ANSI C63.4:2003
Test Date: 2010-02-04
Mode of Operation: Tx on mode

Test Method:

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. 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. The emissions worst-case are shown in Test Results of the following pages.

* 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.

Test Setup:



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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 on mode (Channel 1): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2404.0	53.5	29.1	82.6	13,489.6	500,000	Vertical
* 4808.1	-7.5	33.2	25.7	19.3	500	Vertical
7212.3	-4.2	38.1	33.9	49.5	500	Vertical
9616.0	Emission detected are more than 20dB below the limit line				500	Vertical
* 12020.0					500	Vertical
14424.0					500	Vertical
16828.0					500	Vertical
* 19232.0					500	Vertical
21636.0					500	Vertical
24040.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2404.0	33.5	29.1	62.6	1,349.0	50,000	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.

+: Adjusted by Duty Cycle = -28.9dB

Duty Cycle Correction = -20dB, if the calculation duty cycle correction > -20dB

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 on mode (Channel 2): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2437.0	49.3	29.3	78.6	8,511.4	500,000	Vertical
* 4874.2	-7.0	33.8	26.8	21.9	500	Vertical
7311.5	-4.0	38.4	34.4	52.5	500	Vertical
9748.0	Emission detected are more than 20dB below the limit line				500	Vertical
* 12185.0					500	Vertical
14622.0					500	Vertical
17059.0					500	Vertical
* 19496.0					500	Vertical
21933.0					500	Vertical
24370.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2437.0	29.3	29.3	58.6	851.1	50,000	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.

+: Adjusted by Duty Cycle = -28.9dB

Duty Cycle Correction = -20dB, if the calculation duty cycle correction > -20dB

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 on mode (Channel 3): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2470.0	48.4	29.7	78.1	8,035.3	500,000	Vertical
* 4940.7	-6.1	34.0	27.9	24.8	500	Vertical
7410.3	-8.7	38.8	30.1	32.0	500	Vertical
9880.0	Emission detected are more than 20dB below the limit line				500	Vertical
* 12350.0					500	Vertical
14820.0					500	Vertical
17290.0					500	Vertical
* 19760.0					500	Vertical
22230.0					500	Vertical
24700.0					500	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
+ 2470.0	28.4	29.7	58.1	803.5	50,000	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.

+: Adjusted by Duty Cycle = -28.9dB

Duty Cycle Correction = -20dB, if the calculation duty cycle correction > -20dB

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

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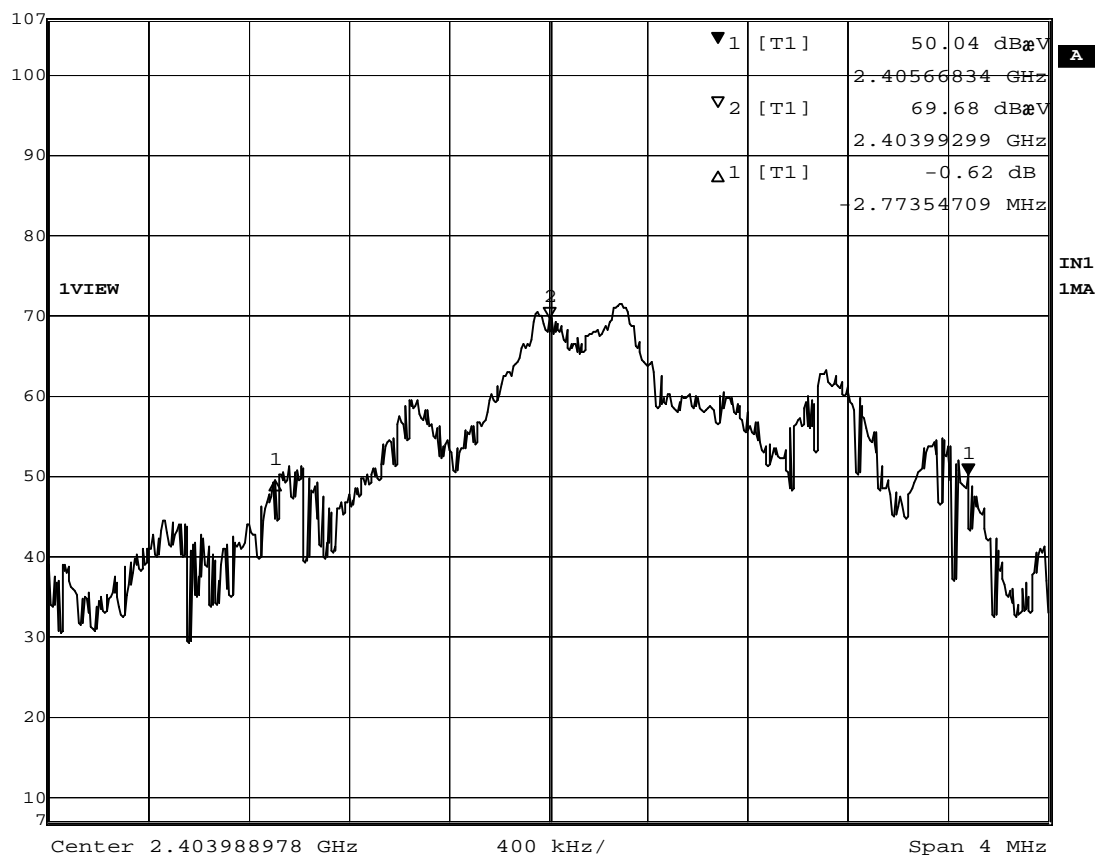
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2404	2.77

Channel 1

20dB Bandwidth of Fundamental Emission

Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	50.04 dB μ V	VBW	100 kHz	
107 dB μ V	2.40566834 GHz	SWT	5 ms	Unit dB μ V



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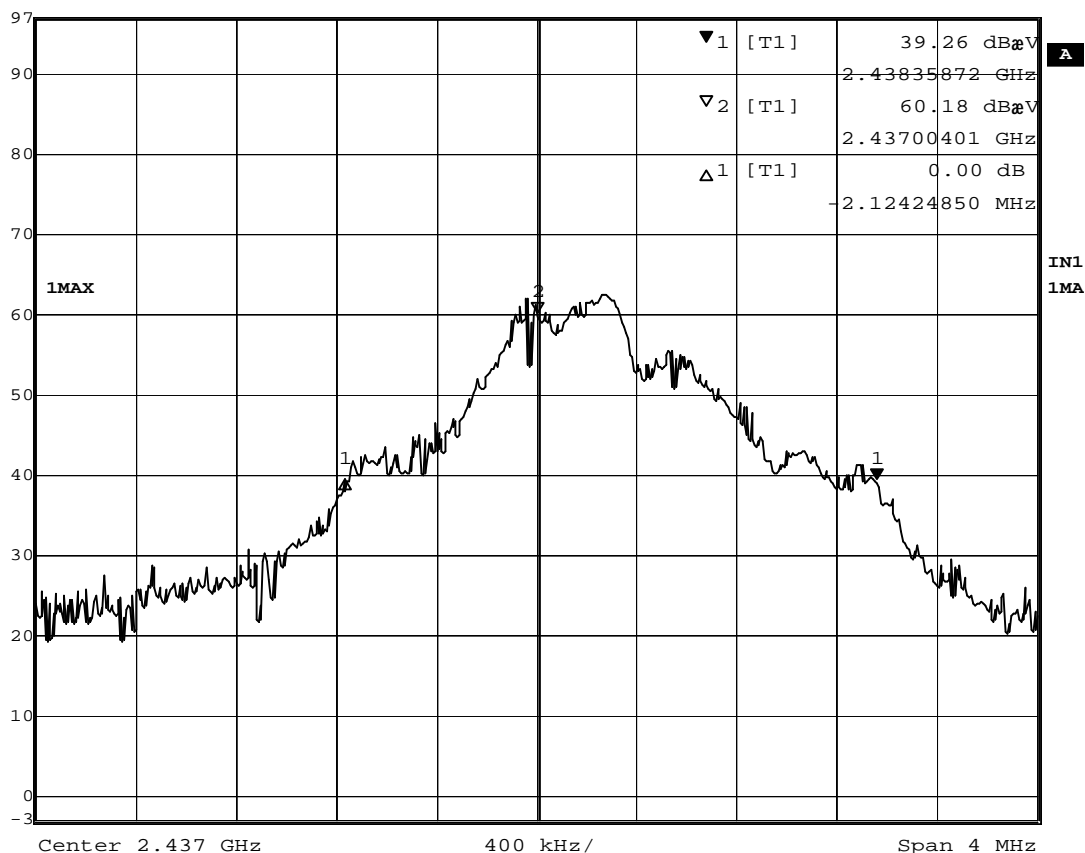
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2437	2.12

Channel 2

20dB Bandwidth of Fundamental Emission

	Marker 1 [T1]	RBW	100 kHz	RF Att	0 dB
Ref Lvl	39.26 dB μ V	VBW	100 kHz		
97 dB μ V	2.43835872 GHz	SWT	5 ms	Unit	dB μ V



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Limits for 20dB Bandwidth of Fundamental Emission:

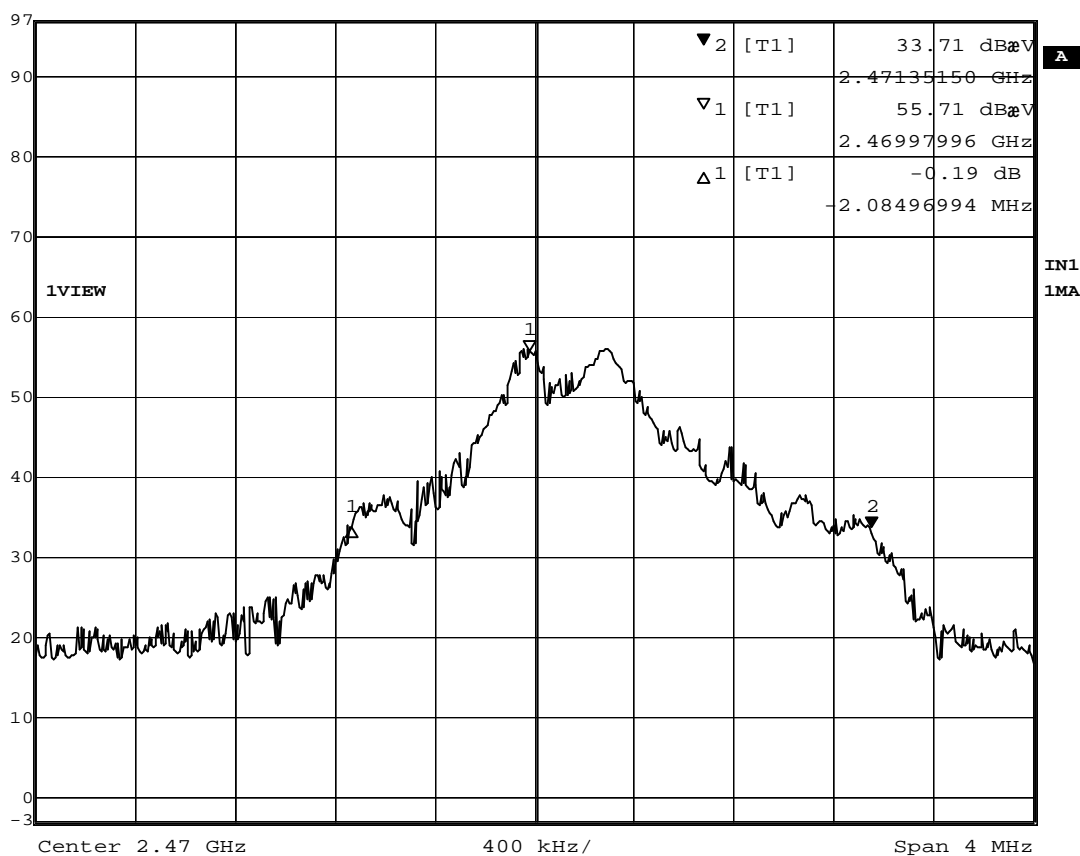
Frequency Range [MHz]	20dB Bandwidth [MHz]
2470	2.08

Channel 3

20dB Bandwidth of Fundamental Emission			
--	--	--	--



Ref Lvl	Marker 2 [T1]	RBW	100 kHz	RF Att	0 dB
97 dB μ V	33.71 dB μ V	VBW	100 kHz		
	2.47135150 GHz	SWT	5 ms	Unit	dB μ V



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

Frequency Range [MHz]	Quasi-Peak Limits [$\mu\text{V/m}$]
30-88	100
88-216	150
216-960	200
Above 960	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 On Mode: PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m $\text{dB}\mu\text{V/m}$	Limit @3m $\text{dB}\mu\text{V/m}$	Level @3m $\mu\text{V/m}$	Limit @3m $\mu\text{V/m}$
Emissions detected are more than 20 dB below the FCC Limits					

Results of Rx On Mode: PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m $\text{dB}\mu\text{V/m}$	Limit @3m $\text{dB}\mu\text{V/m}$	Level @3m $\mu\text{V/m}$	Limit @3m $\mu\text{V/m}$
Emissions detected are more than 20 dB below the FCC Limits					

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

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM020	HORN ANTENNA	EMCO	3115	4032	2009/09/02	2010/09/02
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--	2008/12/01	2011/12/01
EM083	STCOATS	--	--	--	2008/12/08	2011/12/08
EM194	BICONILOG ANTENNA	EMCO	3142B	1795	2008/09/08	2010/09/08
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2009/01/06	2011/01/06
EM229	EMI Test Receiver	R&S	ESIB40	100248	2009/09/27	2010/09/27
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2009/07/26	2011/07/26

Remarks:-

CM Corrective Maintenance

N/A Not Applicable or Not Available

TBD To Be Determined

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Appendix B

Duty Cycle Correction During 100msec

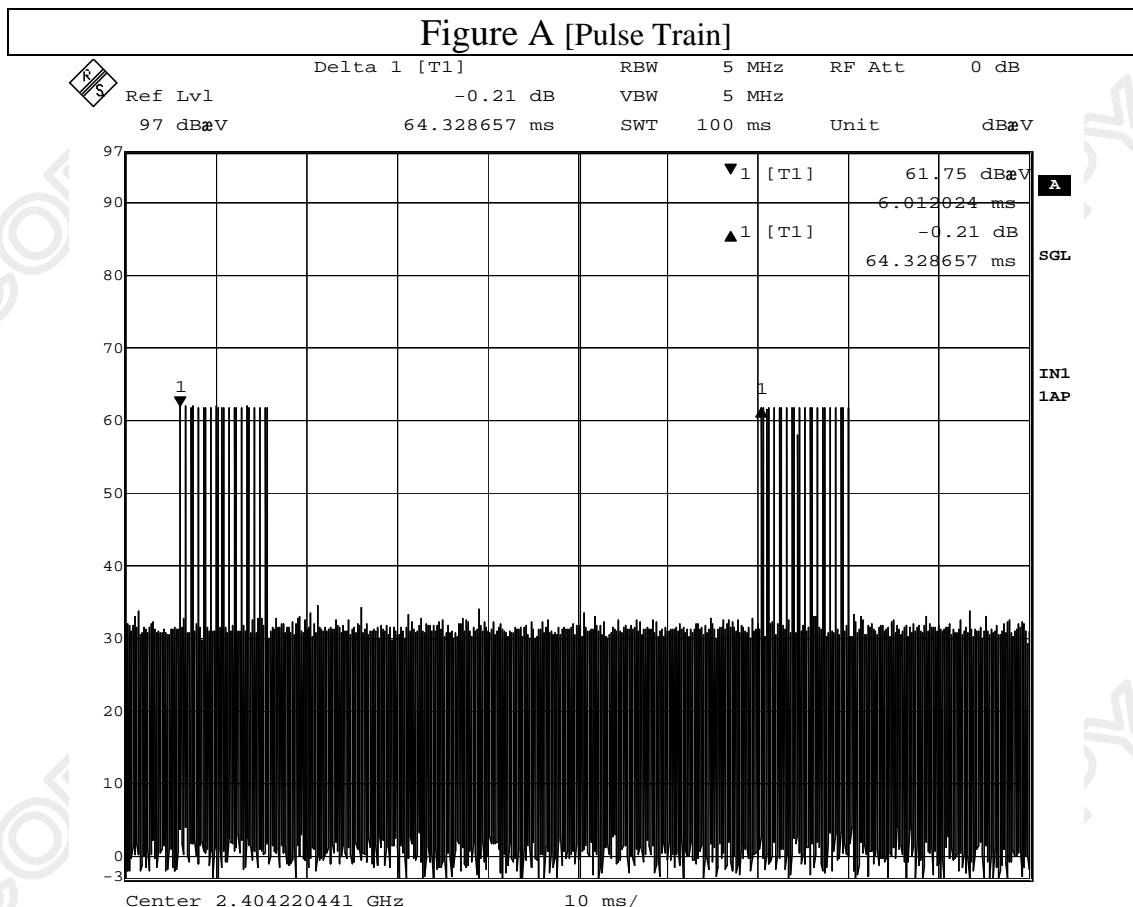
Each sample unit sends a different series of characters, but each pulse period (100msec) never exceeds a series of 30 long (0.120msec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered $30 \times 0.12 \text{ msec} \text{ per } 100 \text{ msec} = 3.6\%$ duty cycle. Figure A through D show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction = $20\text{Log}(0.036) = -28.9\text{dB}$

Duty Cycle Correction = -20dB, if the calculation duty cycle correction $> -20\text{dB}$

The following figures [Figure A to Figure D] showed the characteristics of the pulse train for one of these functions.



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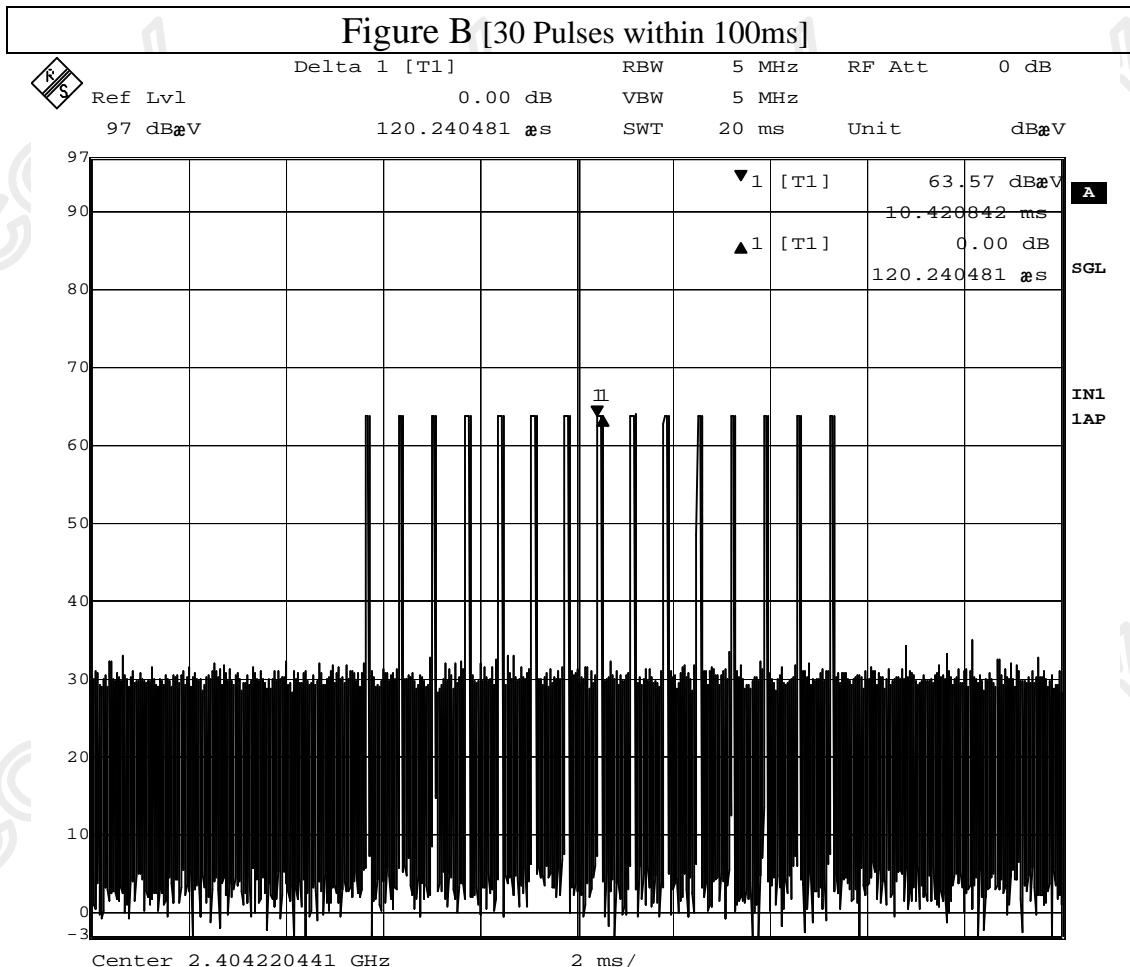
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Figure B [30 Pulses within 100ms]



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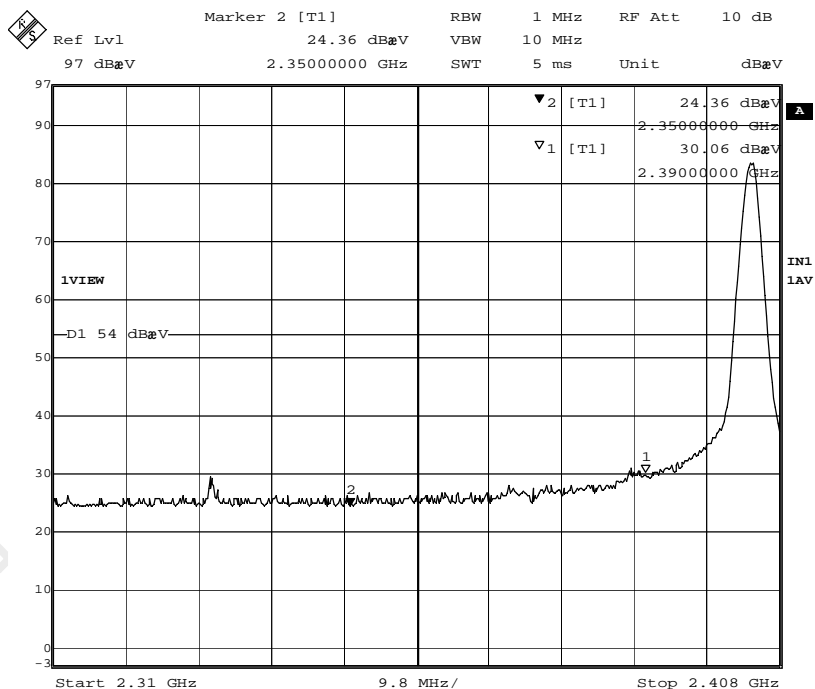
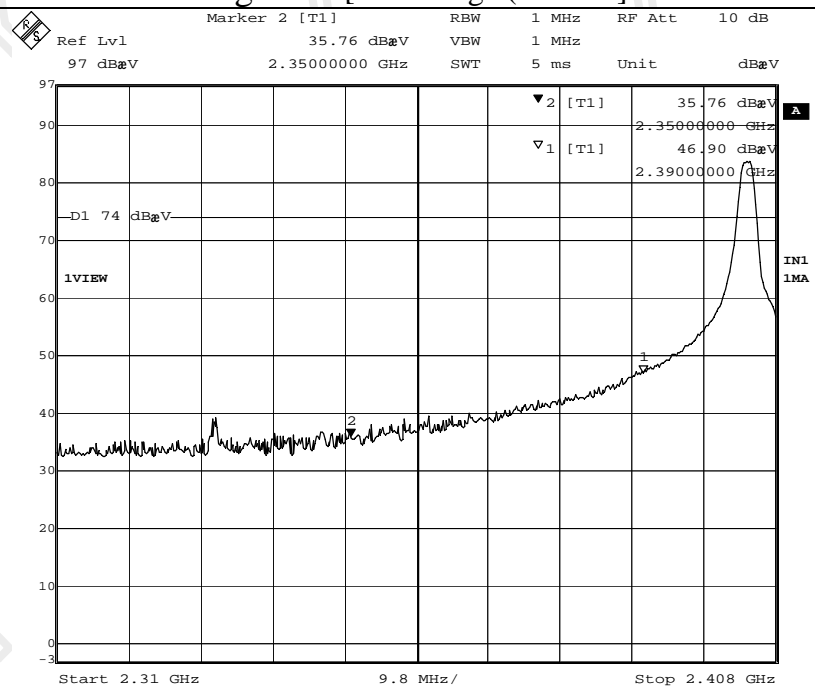
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Figure C [Band-Edge (CH low)]



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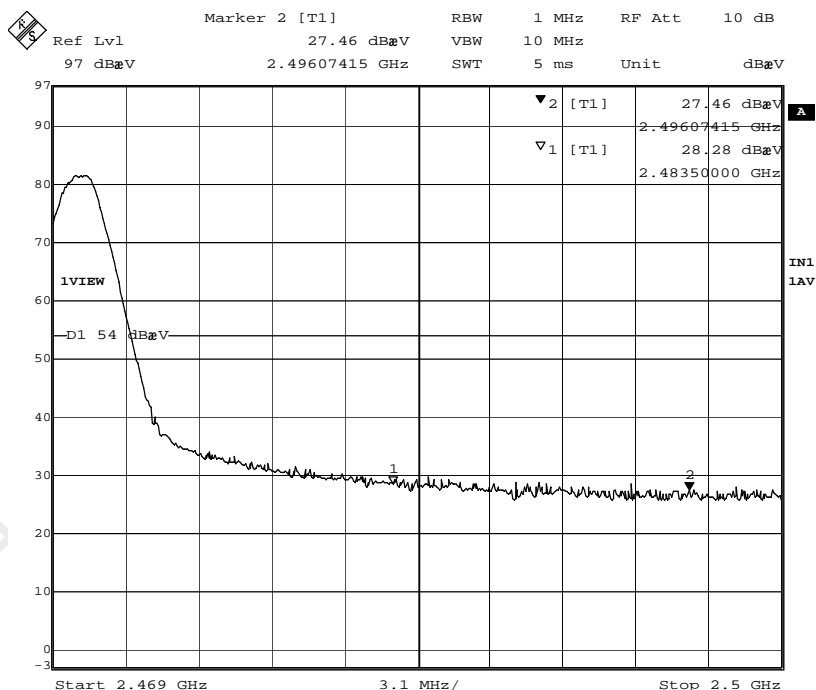
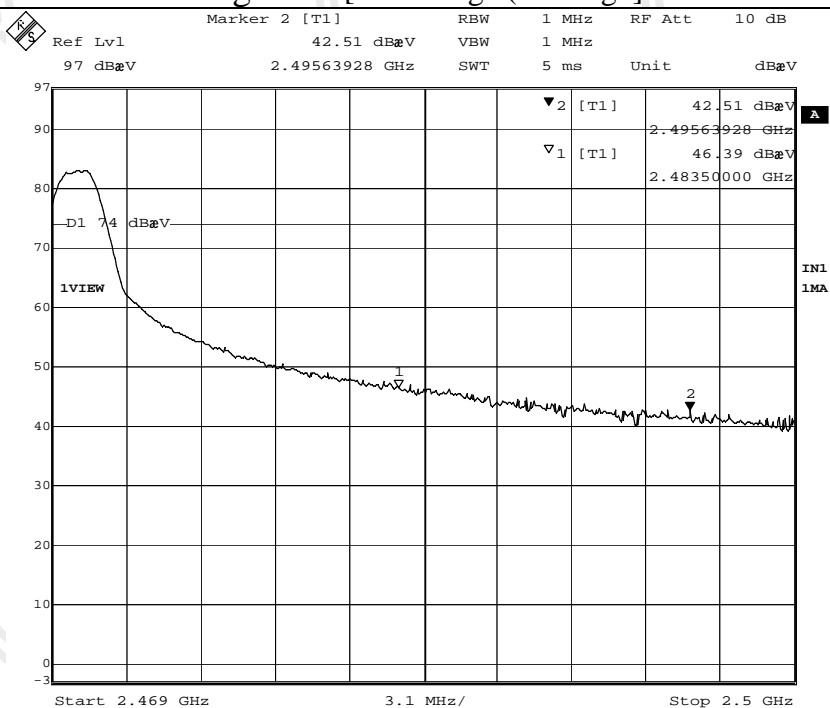
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Figure D [Band-Edge (CH High)]



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Appendix C

Photographs of EUT

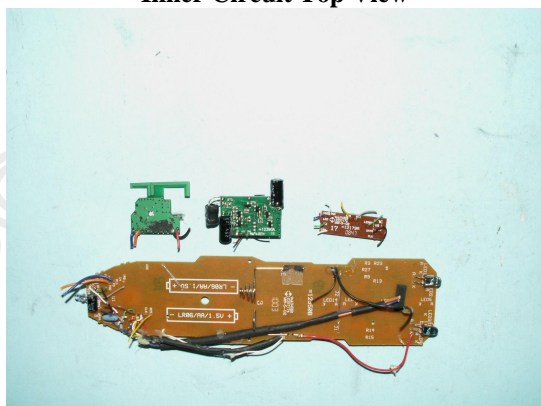
Front View of the product



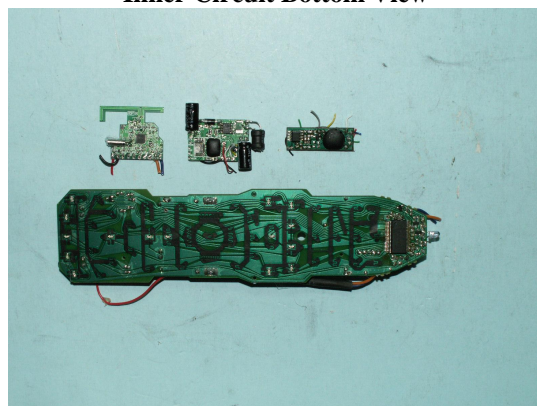
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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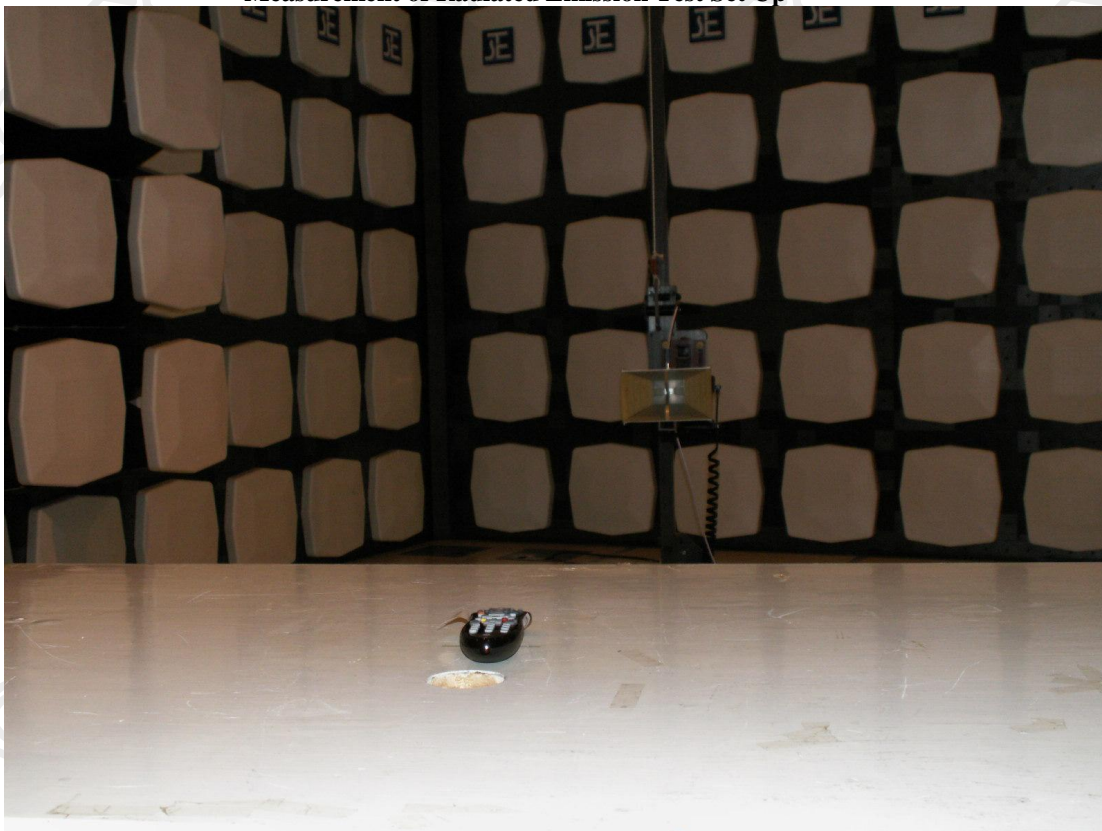
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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