



STC Test Report

Date: 2011-08-09

Page 1 of 20

No.: MH185403

Applicant (C01494): SHANGHAI C. C. LEE MODEL CO., LTD.
1289# JIASONG[M], HUAXIN TOWN, QINGPU
DISTRICT, SHANGHAI P.R.CHINA

Manufacturer: SHANGHAI C. C. LEE MODEL CO., LTD.
1289# JIASONG[M], HUAXIN TOWN, QINGPU
DISTRICT, SHANGHAI P.R.CHINA

Description of Sample(s): Product: 2.4G RADIO CONTROL SYSTEM
Brand Name: CCLEE
Model Number: 2.4G-03Z
FCC ID: AMY2400MHZ03

Date Sample(s) Received: 2011-06-21

Date Tested: 2011-07-02

Investigation Requested: Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2010 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): For additional model(s) details, see page 4

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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STC Test Report

Date: 2011-08-09

Page 2 of 20

No.: MH185403

CONTENT:

Cover	Page 1 of 20
Content	Page 2 of 20
<u>1.0</u> <u>General Details</u>	
1.1 Equipment Under Test [EUT] Description of EUT operation	Page 3 of 20
1.2 Date of Order	Page 3 of 20
1.3 Submitted Sample	Page 3 of 20
1.4 Test Duration	Page 3 of 20
1.5 Country of Origin	Page 3 of 20
<u>2.0</u> <u>Technical Details</u>	
2.1 Investigations Requested	Page 4 of 20
2.2 Test Standards and Results Summary	Page 4 of 20
<u>3.0</u> <u>Test Results</u>	
3.1 Radiated Emission	Page 5-15 of 20
<u>Appendix A</u>	
List of Measurement Equipment	Page 16 of 20
<u>Appendix B</u>	
Duty Cycle Correction During 100 msec	Page 17-18 of 20
<u>Appendix C</u>	
Photographs	Page 19-20 of 20

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STC Test Report

Date: 2011-08-09

Page 3 of 20

No.: MH185403

1.0 General Details

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

Product:	2.4G RADIO CONTROL SYSTEM
Manufacturer:	SHANGHAI C. C. LEE MODEL CO., LTD.
Brand Name:	CCLEE
Model Number:	2.4G-03Z
Additional Brand Name(s):	AXIONRC, ESTES, HOBBICO, REVELL, PILOTAGE
Input Voltage:	9Vd.c. ("AA" size battery×6)

1.1.1 Description of EUT Operation

The Equipment Under Test (EUT) is a SHANGHAI C. C. LEE MODEL CO., LTD., 2.4G RADIO CONTROL SYSTEM. The transmission signal is frequency hopping with channel frequency range 2405.0.-2480.0MHz during normal use. The EUT was set to fixed frequency test mode by application.

1.2 Date of Order

2011-06-21

1.3 Submitted Sample(s):

1 Sample

1.4 Test Duration

2011-07-02

1.5 Country of Origin

China

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STC Test Report

Date: 2011-08-09

Page 4 of 20

No.: MH185403

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2010 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	Test Result		
				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"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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STC Test Report

Date: 2011-08-09

Page 5 of 20

No.: MH185403

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:	2011-07-02
Mode of Operation:	Tx 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.

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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STC Test Report

Date: 2011-08-09

Page 6 of 20

No.: MH185403

Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

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

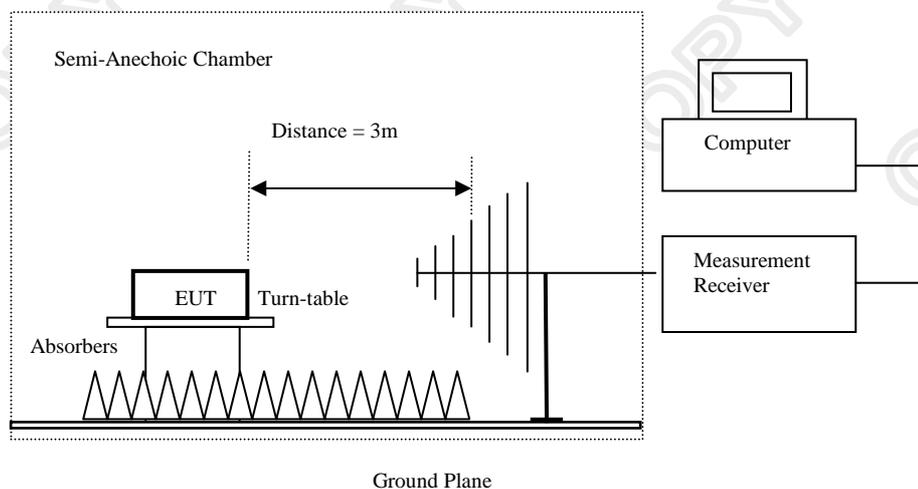
30MHz – 1GHz (QP)

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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STC Test Report

Date: 2011-08-09

Page 7 of 20

No.: MH185403

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: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2405.0	70.5	36.8	107.3	231,739.5	500,000	Vertical
4810.0	30.1	41.9	72.0	3,981.1	5,000	Vertical
9620.0	No Emission Detected				5,000	Vertical
* 12025.0					5,000	Vertical
14430.0					5,000	Vertical
16835.0					5,000	Vertical
* 19240.0					5,000	Vertical
21645.0					5,000	Vertical
24050.0					5,000	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
+ 2405.0	50.5	36.8	87.3	23,173.9	50,000	Vertical
+ 4810.0	10.1	41.9	52.0	398.1	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.

+: Adjusted by Duty Cycle = -20.0dB

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

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Date: 2011-08-09

Page 8 of 20

No.: MH185403

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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: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2440.0	70.1	36.9	107.0	223,872.1	500,000	Vertical
4880.0	25.8	41.8	67.6	2,398.8	5,000	Vertical
9760.0	No Emission Detected				5,000	Vertical
* 12200.0					5,000	Vertical
14640.0					5,000	Vertical
17080.0					5,000	Vertical
* 19520.0					5,000	Vertical
21960.0					5,000	Vertical
24400.0					5,000	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
+ 2440.0	50.1	36.9	87.0	22,387.2	50,000	Vertical
+ 4880.0	5.8	41.8	47.6	239.9	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.

+: Adjusted by Duty Cycle = -20.0dB

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

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STC Test Report

Date: 2011-08-09

Page 9 of 20

No.: MH185403

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: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2480.0	70.8	37.2	108.0	251,188.6	500,000	Vertical
4960.0	22.4	41.8	64.2	1,621.8	5,000	Vertical
9920.0	No Emission Detected				5,000	Vertical
* 12400.0					5,000	Vertical
14880.0					5,000	Vertical
17360.0					5,000	Vertical
* 19840.0					5,000	Vertical
22320.0					5,000	Vertical
24800.0					5,000	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
+ 2480.0	50.8	37.2	88.0	25,118.9	50,000	Vertical
+ 4960.0	2.4	41.8	44.2	162.2	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.

+: Adjusted by Duty Cycle = -20.0dB

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

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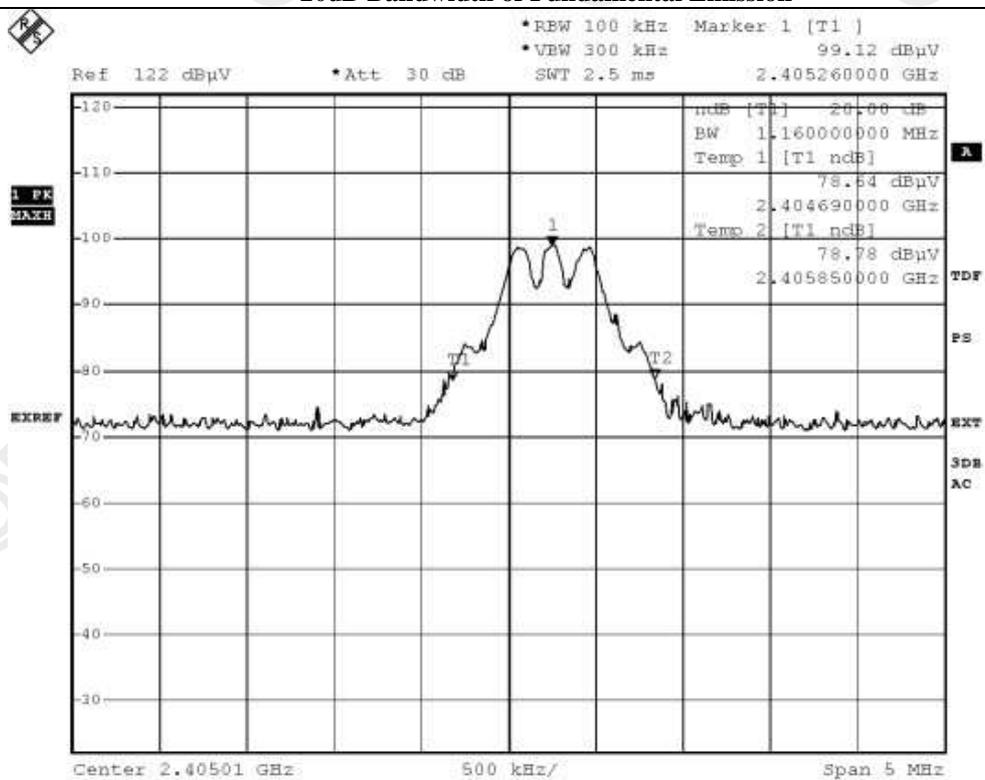
Page 10 of 20

No.: MH185403

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2405	1.16

20dB Bandwidth of Fundamental Emission



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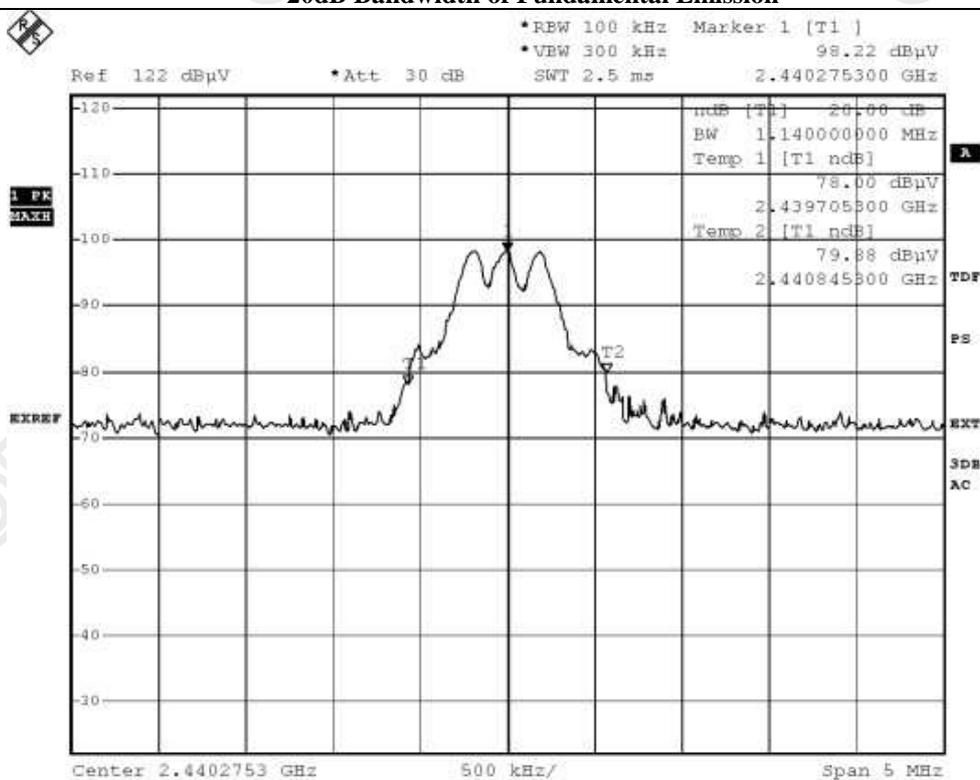
Page 11 of 20

No.: MH185403

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2440	1.14

20dB Bandwidth of Fundamental Emission



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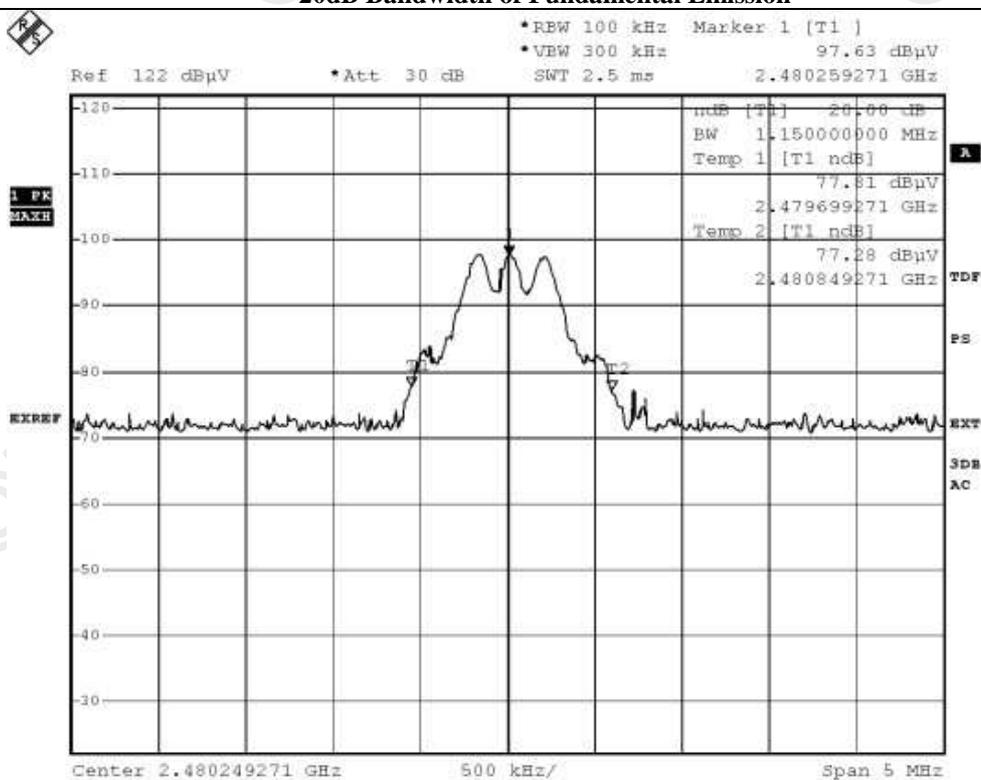
Page 12 of 20

No.: MH185403

Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2480	1.15

20dB Bandwidth of Fundamental Emission



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STC Test Report

Date: 2011-08-09

Page 13 of 20

No.: MH185403

Band Edge Measurement:

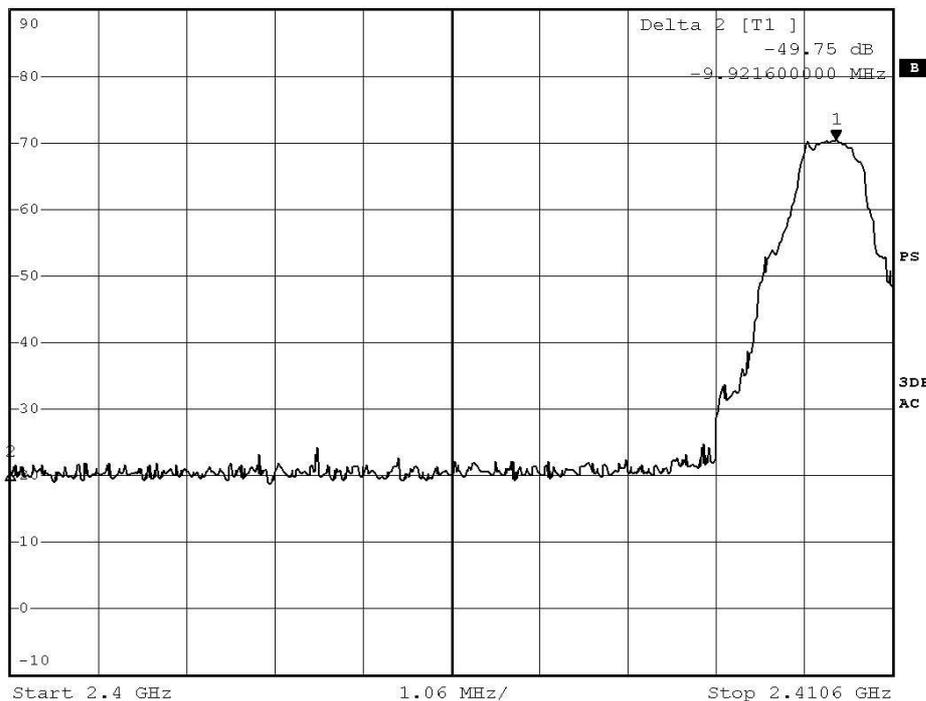
Band-edge Compliance of RF Radiated Emissions



*RBW 100 kHz Marker 1 [T1]
VBW 300 kHz 70.35 dB μ V
SWT 2.5 ms 2.409921600 GHz

Ref 90 dB μ V

*Att 10 dB



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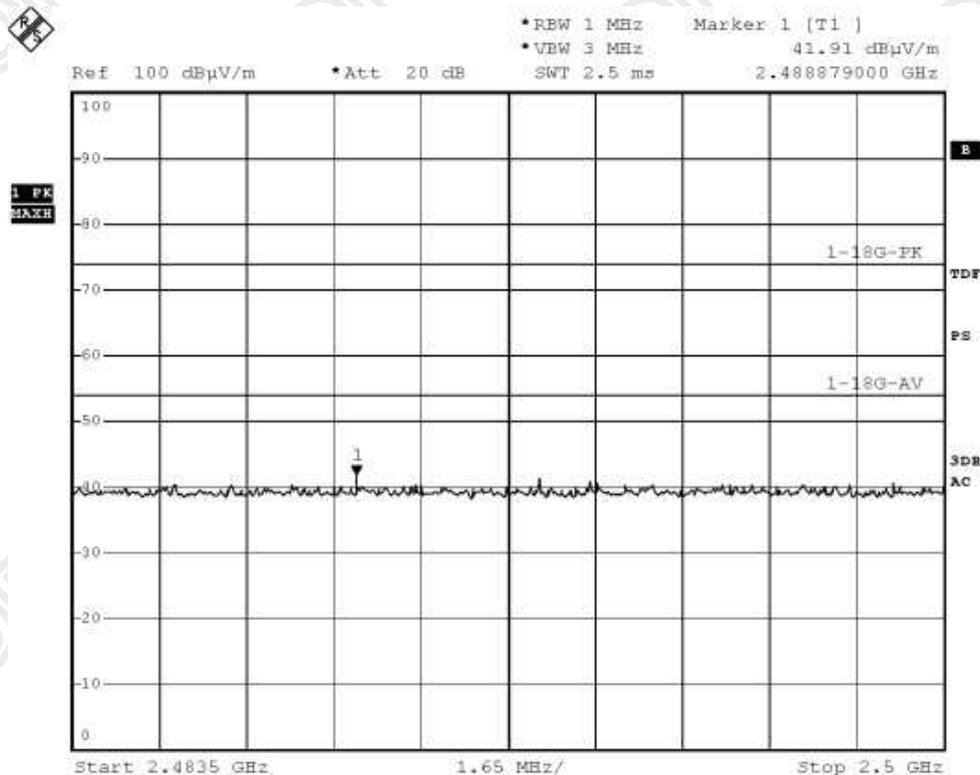
Date: 2011-08-09

Page 14 of 20

No.: MH185403

Band Edge Measurement:

Band-edge Compliance of RF Radiated Emissions (Highest)



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STC Test Report

Date: 2011-08-09

Page 15 of 20

No.: MH185403

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

Frequency Range [MHz]	Quasi-Peak Limits [$\mu\text{V/m}$]
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-1000MHz): PASS

Please refer to the following table for result details

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu\text{V/m}$	Limit @3m dB $\mu\text{V/m}$	Level @3m $\mu\text{V/m}$	Limit @3m $\mu\text{V/m}$
41.8	Vertical	28.8	40.0	27.5	100
44.9	Vertical	29.3	40.0	29.2	100
47.4	Vertical	28.4	40.0	26.3	100
128.0	Horizontal	26.7	43.5	21.6	150
160.0	Horizontal	26.9	43.5	22.1	150
953.8	Vertical	39.8	46.0	97.7	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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STC Test Report

Date: 2011-08-09

Page 16 of 20

No.: MH185403

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	2011/09/02
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Lingren	FACT-3	--	2010/10/25	2011/11/25
EM174	BICONILOG ANTENNA	EMCO	3142B	1671	2010/02/09	2012/02/09
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2009-09-07	2011-09-07
EM229	EMI Test Receiver	R&S	ESIB40	100248	2011/04/26	2012/04/26

Remarks:-

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

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STC Test Report

Date: 2011-08-09

Page 17 of 20

No.: MH185403

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 4 sole (0.56msec) pulses. Assuming any combination of sole pulses may be obtained due to encoding the worst case transmit duty cycle would be considered $4 \times 0.56 \text{ msec} \text{ per } 100 \text{ msec} = 2.24\%$ duty cycle. Figure A through B show the characteristics of the pulse train for one of these functions.

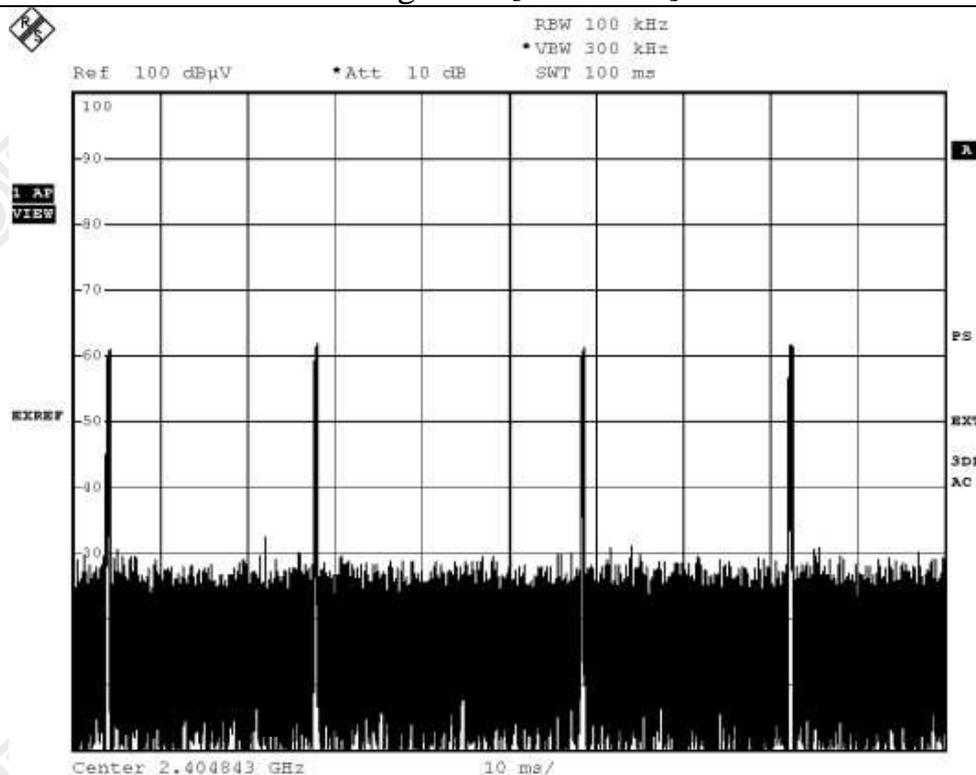
Remarks:

Duty Cycle Correction = $20 \log(0.0224) = -33.0 \text{ dB}$

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

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

Figure A [Pulse Train]



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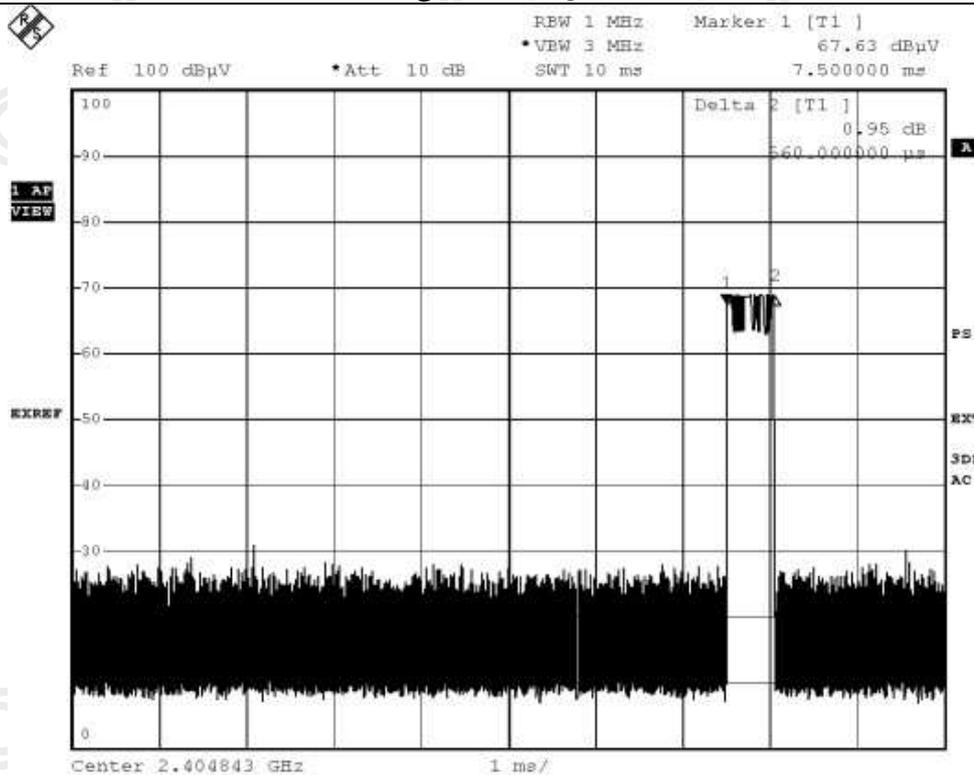
STC Test Report

Date: 2011-08-09

Page 18 of 20

No.: MH185403

Figure B [Signal Pulse]



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STC Test Report

Date: 2011-08-09

Page 19 of 20

No.: MH185403

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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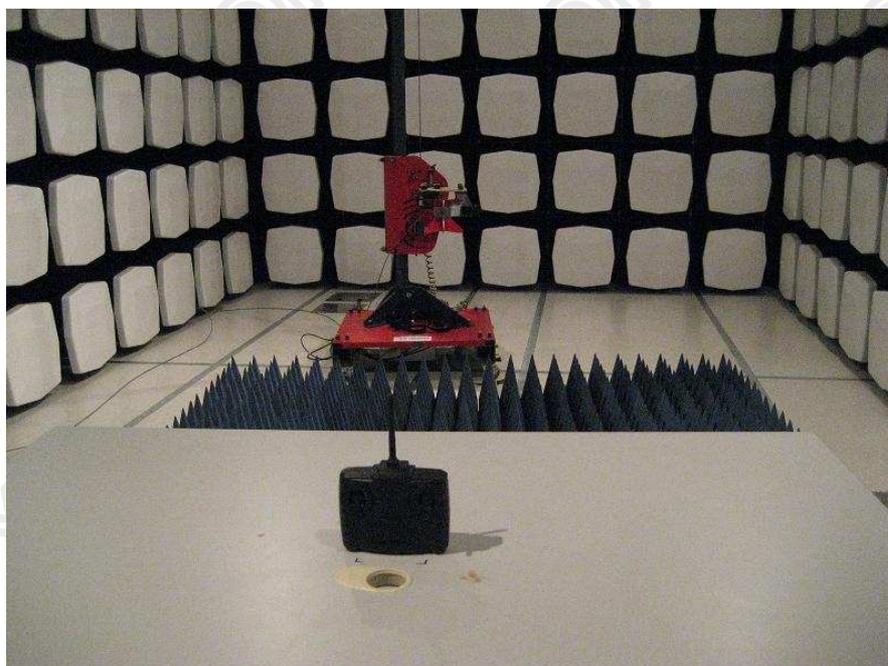
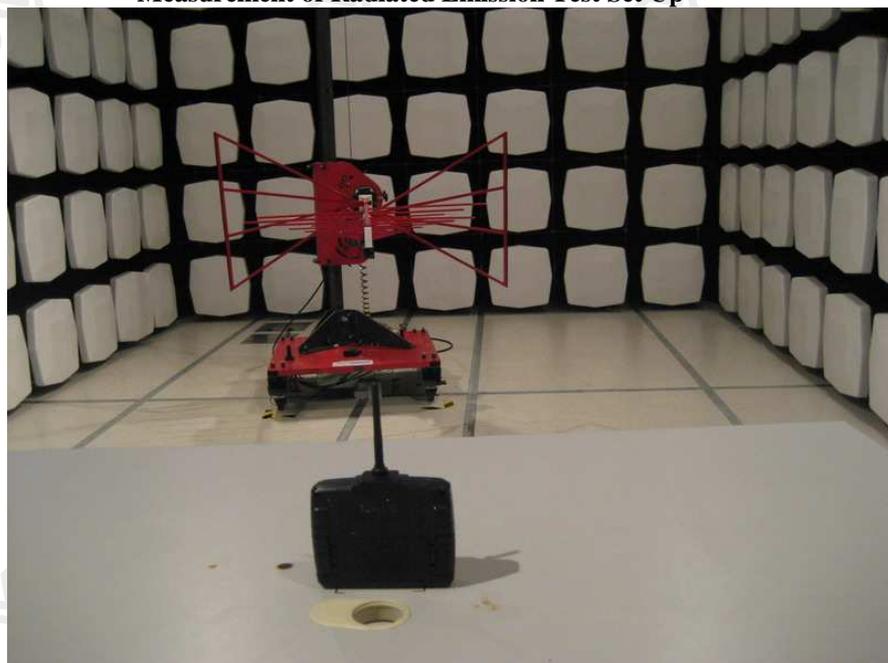
Date: 2011-08-09

Page 20 of 20

No.: MH185403

Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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