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No. : HM165460

Applicant (XLT001): X10 (USA) Inc.

620 Naches Ave. SW Renton, WA 98057

Description of Sample(s): Submitted sample(s) said to be

Product: icon Remote

Brand Name: X10 Model Number: IR34A FCC ID: B4SIR34A

Date Sample(s) Received: 2010-06-30

Date Tested: 2010-07-07

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 <u>COMPLIED</u> 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 Chuten
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.



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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

Telephone: 852 2666 1888 Fax: 852 2664 4353

1.2 Applicant Details Applicant

X10 (USA) Inc. 620 Naches Ave. SW Renton, WA 98057

Manufacturer

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



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

Submitted sample(s) said to be

Product: icon Remote

Manufacturer: X-10 Electronics (Shenzhen) Co., Ltd.

Brand Name: X10 Model Number: IR34A

Rating: 4.5Vd.c. ("AA" size battery x 3)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a X10 (USA) Inc., icon Remote. The transmitter is a ON/OFF keying type transmitter. The EUT continues to transmit while keyboard is being pressed. It is pulse transmitter. Modulation by IC; and type is pulse modulation.

1.4 Date of Order

2010-06-30

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2010-07-07

1.7 Country of Origin

China



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2.0 <u>Technical Details</u>

2.1 Investigations 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.

2.2 Test Standards and Results Summary Tables

EMISSION									
	Results Summary								
Test Condition	Test Requirement	Test Method	Class /	7	est Resu	lt			
			Severity	Pass	Failed	N/A			
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.231a	ANSI C63.4:2003	N/A	\boxtimes					
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	\boxtimes					

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

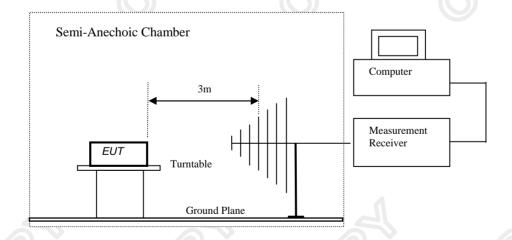
Test Requirement: FCC 47CFR 15.231a
Test Method: ANSI C63.4:2003
Test Date: 2010-07-07
Mode of Operation: On Mode

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 STC (Dongguan) Company Ltd. 68 Fumin Nan Road, Dalang, Dongguan, Guangdong, PRC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

Test Setup:





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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.231a]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Spurious Emission
	[Average]	[Average]
[MHz]	$[\mu V/m]$	$[\mu V/m]$
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,750 *	125 to 375 *
174-260	3,750	375
260-470	3,750 to 12,500 *	375 to 1,250 *
Above 470	12,500	1,250

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

Results:

Field Strength of Fundamental Emissions							
Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level @3m	Factor	Strength	Strength	@3m	Polarity	
MHz	dΒμV	dB/m	_dBµV/m_	μV/m	μV/m_		
310.00	63.0	15.7	78.7	8609.9	58,333.4	Horizontal	

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dΒμV	dB/m	dBμV/m	μV/m	μV/m				
620.00	30.7	22.9	53.6	478.6	5,833.3	Horizontal			
930.00	10.7	26.5	37.2	72.4	5,833.3	Horizontal			
+ 1240.00	< 1.0	32.2	< 33.2	< 45.7	5,000.0	Vertical			
+ 1550.00	< 1.0	38.8	< 39.8	< 97.7	5,000.0	Vertical			
1860.00	< 1.0	17.4	< 18.4	< 8.3	5,833.3	Vertical			
2170.00	< 1.0	17.2	< 18.2	< 8.1	5,833.3	Vertical			
2480.00	< 1.0	18.8	< 19.8	< 9.8	5,833.3	Vertical			
+ 2790.00	< 1.0	19.7	< 20.7	< 10.8	5,000.0	Vertical			
3100.00	< 1.0	20.6	< 21.6	< 12.0	5,833.3	Vertical			



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Results:

Field Strength of Fundamental Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level @3m	Factor	Strength	Strength	@3m	Polarity	
MHz	dΒμV	dB/m	_dBµV/m_	μV/m	μV/m		
* 310.00	51.2	15.7	66.9	2213.1	5,833.3	Horizontal	

	Field Strength of Spurious Emissions								
		A	Average Value	9					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dΒμV	dB/m	_dBμV/m_	μV/m	μV/m_				
620.00	18.9	22.9	41.8	123.0	583.3	Horizontal			
930.00	< 1.0	26.5	< 27.5	< 23.7	583.3	Horizontal			
+ 1240.00	< 1.0	32.2	< 33.2	< 45.7	500.0	Vertical			
+ 1550.00	< 1.0	38.8	< 39.8	< 97.7	500.0	Vertical			
1860.00	< 1.0	17.4	< 18.4	< 8.3	583.3	Vertical			
2170.00	< 1.0	17.2	< 18.2	< 8.1	583.3	Vertical			
2480.00	< 1.0	18.8	< 19.8	< 9.8	583.3	Vertical			
+ 2790.00	< 1.0	19.7	< 20.7	< 10.8	500.0	Vertical			
3100.00	< 1.0	20.6	< 21.6	< 12.0	583.3	Vertical			

Remarks:

*: Adjusted by Duty Cycle = -11.78dB

FCC Limit for Average Measurement = $41.6667(310.0 \text{MHz}) - 7083.333 = 5833.34 \mu \text{V/m}$

+: 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 were not adjusted for averaging and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB





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

Frequency Range	Quasi-Peak Limits
[MHz]	$[\mu V/m]$
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.

Result of On Mode (9kHz ~ 30MHz): PASS

Emissions detected are more than 20 dB below the limit line(s)

Result of On Mode (30MHz ~ 1GHz): PASS

	Radiated Emissions								
	Quasi-Peak								
Emission	E-Field	Level	Limit	Level	Limit				
Frequency	Polarity	@ 3m	@ 3m	@3m	@ 3m				
MHz		dBµV/m	dBµV/m	μV/m	μV/m				
92.7	Horizontal	28.2	43.5	25.7	150				
125.3	Horizontal	30.1	43.5	32.0	150				
212.2	Horizontal	12.3	43.5	4.1	200				
570.2	Horiz ontal	21.5	46.0	11.9	200				
798.1	Horizontal	24.9	46.0	17.6	200				
959.6	Horiz ontal	27.3	46.0	23.2	200				

Result of On Mode (1GHz ~ 4.2GHz): PASS

Emissions detected are more than 20 dB below the limit line(s)

Remark:

Correction Factor includes Antenna Factor and Cable Attenuation. Calculated measurement uncertainty: 30MHz to 1GHz 5.1dB





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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.231a]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Spurious Emission
	[Average]	[Average]
[MHz]	$[\mu V/m]$	$[\mu V/m]$
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,750 *	125 to 375 *
174-260	3,750	375
260-470	3,750 to 12,500 *	375 to 1,250 *
Above 470	12,500	1,250

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

Results:

Field Strength of Fundamental Emissions							
Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level @3m	Factor	Strength	Strength	@3m	Polarity	
MHz	dΒμV	dB/m	_dBµV/m_	$\mu V/m$	μV/m_		
418.00	59.9	17.8	77.7	7673.6	103,333.5	Vertical	

Field Strength of Spurious Emissions									
	Peak Value								
Frequency Measured		Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dΒμV	dB/m	_dBμV/m_	μV/m	μV/m				
836.00	18.0	25.1	43.1	142.9	10,333.3	Vertical			
+ 1254.00	< 1.0	26.7	< 27.7	< 24.3	5,000.0	Vertical			
+ 1672.00	< 1.0	32.2	< 33.2	< 45.7	5,000.0	Vertical			
2090.00	< 1.0	38.8	< 39.8	< 97.7	10,333.3	Vertical			
2508.00	< 1.0	17.4	< 18.4	< 8.3	10,333.3	Vertical			
2926.00	< 1.0	17.2	< 18.2	< 8.1	10,333.3	Vertical			
3344.00	< 1.0	18.8	< 19.8	< 9.8	10,333.3	Vertical			
+ 3762.00	< 1.0	19.7	< 20.7	< 10.8	5,000.0	Vertical			
+ 4180.00	< 1.0	20.6	< 21.6	< 12.0	5,000.0	Vertical			



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Results:

Field Strength of Fundamental Emissions							
Average Value							
Frequency	Measured Correction Field Field Limit						
	Level @3m	Factor	Strength	Strength	@3m	Polarity	
MHz	dΒμV	dB/m	_dBµV/m_	μV/m	μV/m		
* 418.00	39.9	17.8	57.7	767.4	10,333.3	Vertical	

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\mu V$	dB/m	dBμV/m	μV/m	μV/m		
836.00	< 1.0	25.1	< 26.1	< 20.2	1,033.3	Vertical	
+ 1254.00	< 1.0	26.7	< 27.7	< 24.3	500.0	Vertical	
+ 1672.00	< 1.0	32.2	< 33.2	< 45.7	500.0	Vertical	
2090.00	< 1.0	38.8	< 39.8	< 97.7	1,033.3	Vertical	
2508.00	< 1.0	17.4	< 18.4	< 8.3	1,033.3	Vertical	
2926.00	< 1.0	17.2	< 18.2	< 8.1	1,033.3	Vertical	
3344.00	< 1.0	18.8	< 19.8	< 9.8	1,033.3	Vertical	
+ 3762.00	< 1.0	19.7	< 20.7	< 10.8	500.0	Vertical	
+ 4180.00	< 1.0	20.6	< 21.6	< 12.0	500.0	Vertical	

Remarks:

*: Adjusted by Duty Cycle = -20dB

FCC Limit for Average Measurement = $41.6667(418.0MHz)-7083.3333=10333.35\mu V/m$

+: 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 were not adjusted for averaging and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB



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

Frequency Range	Quasi-Peak Limits		
[MHz]	$[\mu V/m]$		
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.

Result of On Mode (9kHz ~ 30MHz): PASS

Emissions detected are more than 20 dB below the limit line(s)

Result of On Mode (30MHz ~ 1GHz): PASS

Radiated Emissions						
Quasi-Peak						
Emission	E-Field	Level	Limit	Level	Limit	
Frequency	Polarity	@ 3m	@ 3m	@3m	@ 3m	
MHz		dBµV/m	dBµV/m	μV/m	μV/m	
122.4	Horizontal	33.4	43.5	46.8	150	
141.0	Horizontal	35.9	43.5	62.4	150	
212.2	Horizontal	12.3	43.5	4.1	200	
570.2	Horizontal	21.5	46.0	11.9	200	
798.1	Horizontal	24.9	46.0	17.6	200	
959.6	Horiz ontal	27.3	46.0	23.2	200	

Result of On Mode (1GHz ~ 4.2GHz): PASS

Emissions detected are more than 20 dB below the limit line(s)

Remark:

Correction Factor includes Antenna Factor and Cable Attenuation. Calculated measurement uncertainty: 30MHz to 1GHz 5.1dB



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3.2 20dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.231a

Test Method: ANSI C63.4:2003 (Section 13.1.7)

Test Date: 2010-07-07 Mode of Operation: On Mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.



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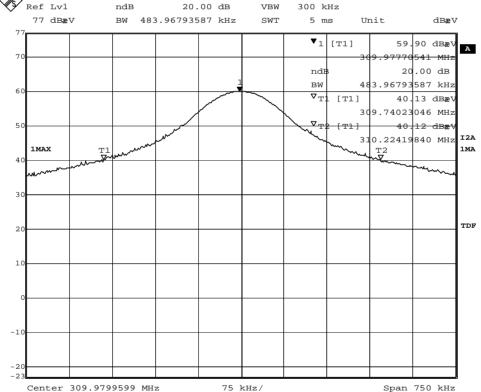
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Limits for 20 dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits *
[MHz]	[kHz]	[kHz]
310.0	483.968	775

*: FCC Limit for Bandwidth measurement = (0.25%)(Center Frequency) =(0.0025)(310.0) = 775kHz

20dB Bandwidth of Fundamental Emission Marker 1 [T1 ndB] RBW 100 kHz RF Att 0 dB .v1 ndB 20.00 dB VBW 300 kHz RBeV BW 483.96793587 kHz SWT 5 ms Unit dBeV



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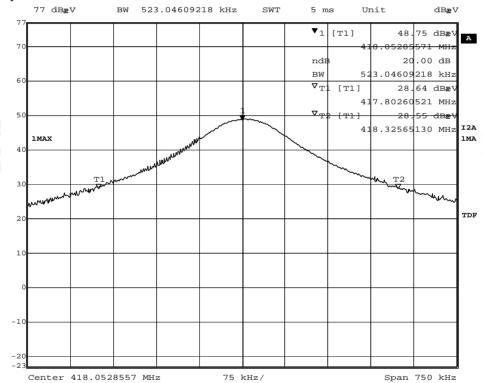
Limits for 20 dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits *
[MHz]	[kHz]	[kHz]
418.0	523.046	1045

FCC Limit for Bandwidth measurement = (0.25%)(Center Frequency)

=(0.0025)(418.0)= 1045 kHz

20dB Bandwidth of Fundamental Emission Marker 1 [T1 ndB] 100 kHz 0 dB Ref Lvl ndB 20.00 dB VBW 300 kHz 77 dBæV BW 523.04609218 kHz SWT Unit dBæV 5 ms **v**₁ [T1] 48.75 dBæv



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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 TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3		2008/12/01	2011/12/01
EM194	BICONILOG ANTENNA	EMCO	3142B	1795	2008/09/08	2010/09/08
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 TBD To Be Determined



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Appendix B

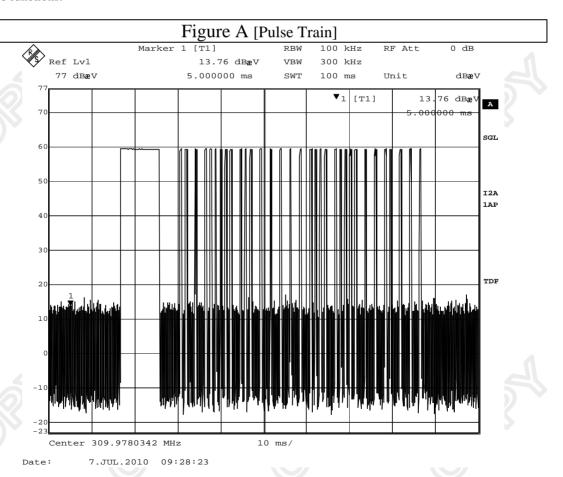
Duty Cycle Correction During 100msec (For 310MHz)

Each packet period (100msec) never exceeds a series of 1 long (9.218msec), 33 short (501.002µsec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (1x9.218) + (33x0.501002)msec per 100msec=25.751% duty cycle. Figure A through D show the characteristics of the pulses train for one of these functions.

Remarks:

Duty Cycle Correction = 20Log(0.25751)=-11.78dB

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

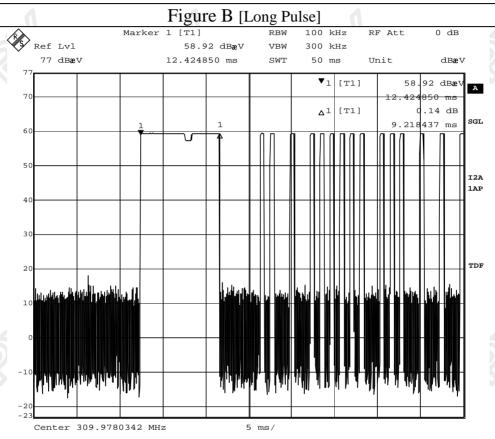


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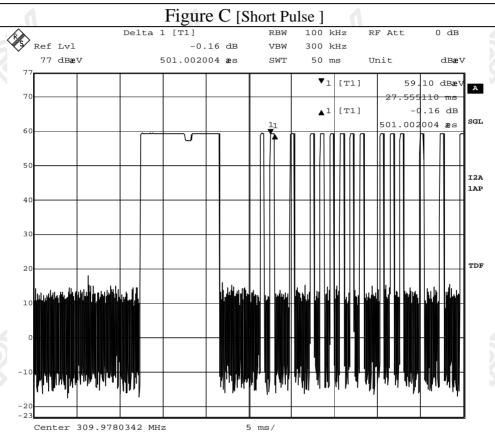


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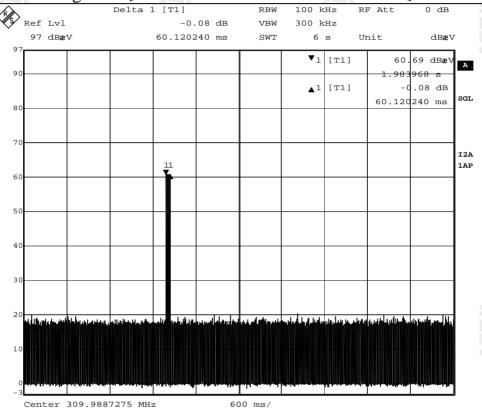
Date: 7.JUL.2010 09:30:38



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Figure D [Total Transmission Time = 60.120ms < 5s]



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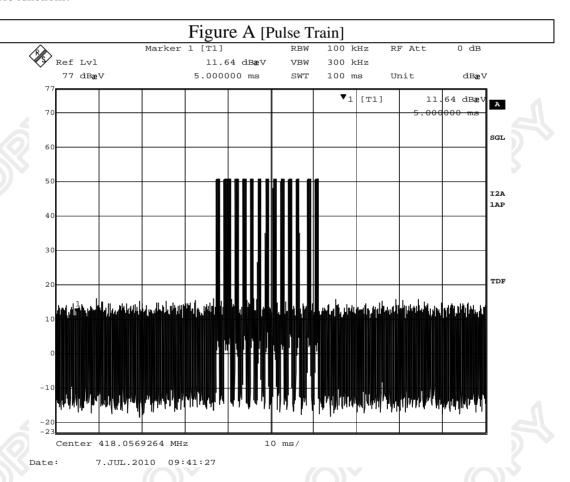
Duty Cycle Correction During 100msec (For 418MHz)

Each packet period (100msec) never exceeds a series of 1 long (1.503msec), 12 short (701.403 μ sec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (1x1.503) + (12x0.701403)msec per 100msec=9.92% duty cycle. Figure A through D show the characteristics of the pulses train for one of these functions.

Remarks:

Duty Cycle Correction = 20Log(0.0992)=-20dB

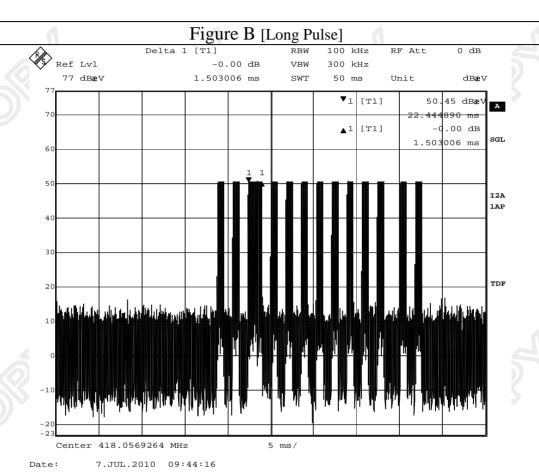
The following figures [Figure A to Figure D] showed the characteristics of the pulse train for one of these functions.





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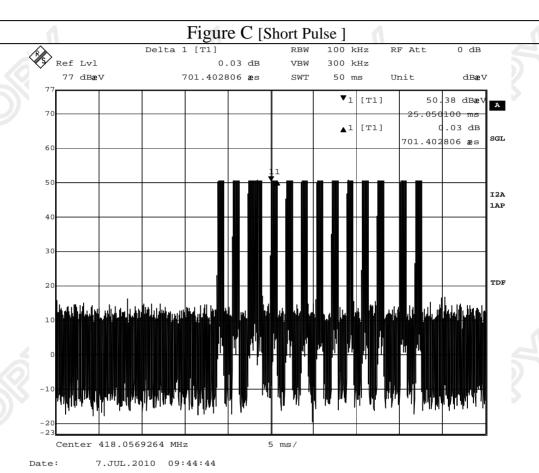


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The Hong Kong Standards and Testing Centre Ltd.

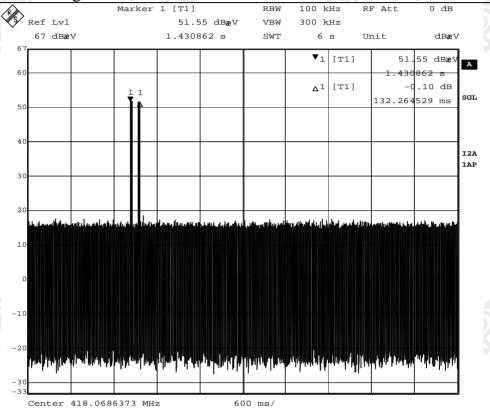
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Figure D [Total Transmission Time = 132.265ms < 5s]



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Appendix C

Periodic Operation [FCC 47CFR 15.231(a2)]

According to FCC 47CFR15.231 (a2). A transmitter automatically activated must automatically deactivate within not more than 5 seconds of being released. The EUT ceases transmission almost immediately upon being released and appears to finish the current packet being transmitted. Therefore the longest period of time the transmitter should take to deactivate is a packet length.



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Appendix D

Photographs of EUT

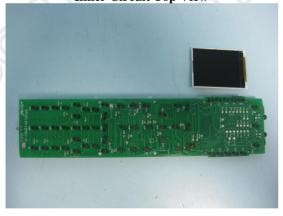
Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View

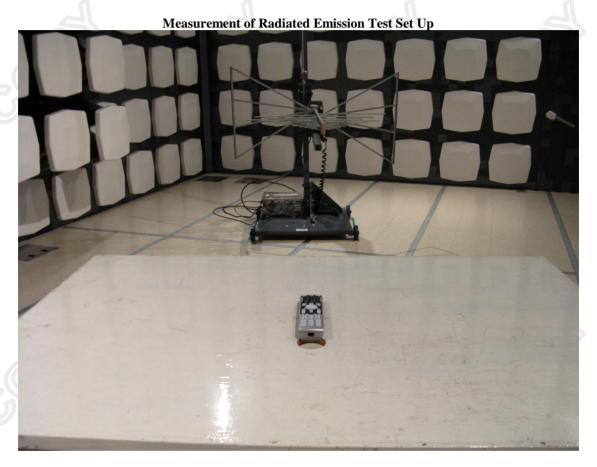




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Photographs of EUT



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

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