



香 港 標 準 及 檢 定 中 心
Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 1 of 18

Applicant: Alligator Game Company Limited
Flat 4, 10th floor, GoodLuck Industrial Centre,
808 Lai Chi Kok Road, Cheung Sha Wan,
Kowloon, Hong Kong

Description of Samples: Model name: RF Remote Control
Model no.: KC-9313/P-21
Brand name: MAXELL
FCC ID: S4CKC9313

Date Samples Received: 2006-01-11

Date Tested: 2006-02-07

Investigation Requested: FCC Part 15 Regulations-Subpart C

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

Remarks: ----

LEE Kam Chuen, EMD
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 2 of 18

CONTENT:

Cover	Page 1 of 18
Content	Page 2-3 of 18
<u>1.0 General Details</u>	
1.1 Test Laboratory	Page 4 of 18
1.2 Applicant Details	Page 4 of 18
Applicant	
HKSTC Code Number for Applicant	
Manufacturer	
1.3 Equipment Under Test [EUT]	Page 5 of 18
Description of EUT operation	
1.4 Date of Order	Page 5 of 18
1.5 Submitted Sample	Page 5 of 18
1.6 Test Duration	Page 5 of 18
1.7 Country of Origin	Page 5 of 18
<u>2.0 Technical Details</u>	
2.1 Investigations Requested	Page 6 of 18
2.2 Test Standards and Results Summary	Page 6 of 18
<u>3.0 Test Results</u>	
3.1 Radiated Emission	Page 7-12 of 18
3.2 Conducted Emission	Page 13 of 18

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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 3 of 18

Appendix A

List of Measurement Equipment

Page 14 of 18

Appendix B

Duty Cycle Correction During 100 msec

Page 15-16 of 18

Appendix C

Photographs

Page 17-18 of 18

香港新界大埔工業村大宏街 10 號

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香 港 標 準 及 檢 定 中 心
Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 4 of 18

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 Details

Applicant

Alligator Game Company Limited
Flat 4, 10th floor, GoodLuck Industrial Centre,
808 Lai Chi Kok Road, Cheung Sha Wan, Kowloon,
Hong Kong

Manufacturer

Shenzhen King Chuang Tech & Electronic Co., Ltd
Block A, Mountain Top, fuyuan Industrial Zone, Jiuwei ,
Xixiang Town, BaoAn District Shenzhen Guangdong
Province P.R.China

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Hong Kong Standards and Testing Centre

Date : 2006-02-20

No. : HM155853

TEST REPORT

Page 5 of 18

1.3 Equipment Under Test [EUT]
Description of Sample

Model Name: RF Remote Control
Manufacturer: Shenzhen King Chuang Tech & Electronic Co., Ltd
Brand Name: MAXELL
Model Number: KC-9313/P-21
Input Voltage: 3Vd.c.

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Alligator Game Company Limited. RF Remote Control, the transmission signal is frequency hopping with channel frequency range 2.410-2.470 GHz.

1.4 Date of Order

2006-01-11

1.5 Submitted Sample(s):

1 Sample per model

1.6 Test Duration

2006-02-07

1.7 Country of Origin

China

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香港標準及檢定中心
Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 6 of 18

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2005 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"/>
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note: N/A - Not Applicable

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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 7 of 18

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

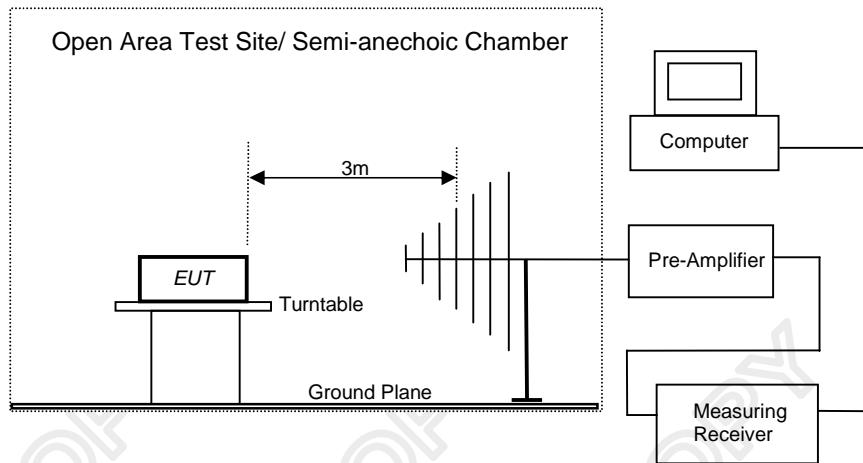
Test Requirement: FCC 47CFR 15.249
Test Method: ANSI C63.4:2003
Test Date: 2006-02-07
Mode of Operation: Tx mode (Controller unit)

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 antenna 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 worst case(s) of emission is/are shown in Test Results of the following pages.

* On a standard radiated emission test site located at HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657 / 607756.

Test Setup:



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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 8 of 18

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 Lowest Channel Frequency : 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
2410.0	46.0	34.1	80.1	10,115.8	50,000	Vertical
* 4820.0	24.0	40.8	64.8	1,737.8	500	Horizontal
7230.0	No Emission Detected				500	Vertical
9640.0					500	Vertical
* 12050.0					500	Vertical
14460.0					500	Vertical
16870.0					500	Vertical
* 19280.0					500	Vertical
21690.0					500	Vertical
24100.0					500	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
2410.0	17.9	34.1	52.0	398.1	50,000	Vertical
* 4820.0	-4.1	40.8	36.7	68.4	500	Horizontal

Remarks:

*: 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 ±4.1dB
1GHz to 18GHz ±4.4dB

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Hong Kong Standards and Testing Centre

Date : 2006-02-20

No. : HM155853

TEST REPORT

Page 9 of 18

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 Mid Channel Frequency : 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	44.6	34.1	78.7	8,609.9	50,000	Horizontal
* 4880.0	23.8	40.8	64.6	1,698.2	500	Horizontal
* 7320.0	No Emission Detected				500	Vertical
9760.0					500	Vertical
* 12200.0					500	Vertical
14640.0					500	Vertical
17080.0					500	Vertical
* 19520.0					500	Vertical
21960.0					500	Vertical
24400.0					500	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	16.5	34.1	50.6	338.8	50,000	Horizontal
* 4880.0	-4.3	40.8	36.5	66.8	500	Horizontal

Remarks:

*: 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 ± 4.1 dB
1GHz to 18GHz ± 4.4 dB

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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 10 of 18

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 Highest Channel Frequency : 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
2470.0	44.6	34.3	78.9	8,810.5	50,000	Vertical
* 4940.0	17.4	41.3	58.7	861.0	500	Horizontal
* 7410.0	No Emission Detected				500	Vertical
9880.0					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 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
2470.0	16.5	34.3	50.8	346.7	50,000	Horizontal
* 4940.0	-10.7	41.3	30.6	33.9	500	Horizontal

Remarks:

*: 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 ±4.1dB
1GHz to 18GHz ±4.4dB

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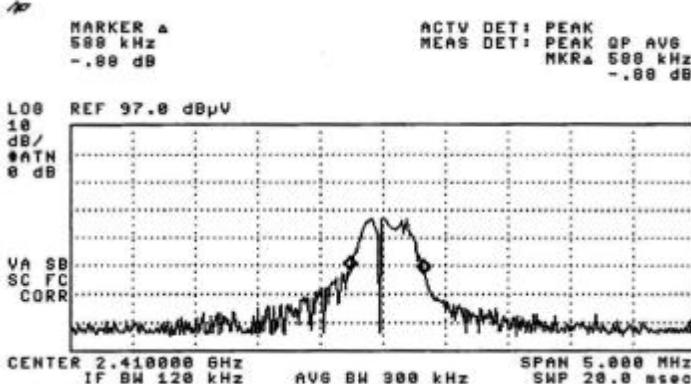
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Date : 2006-02-20
No. : HM155853

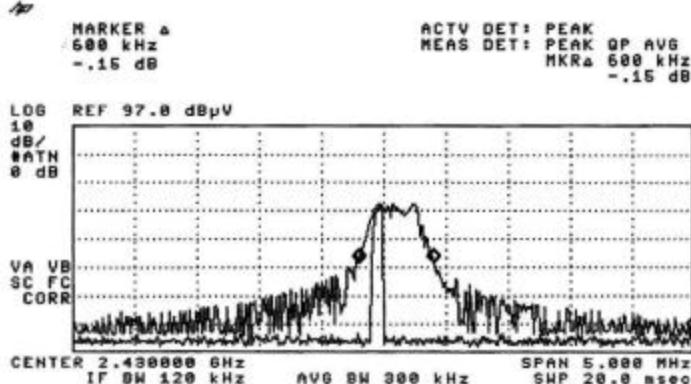
TEST REPORT

Page 11 of 18

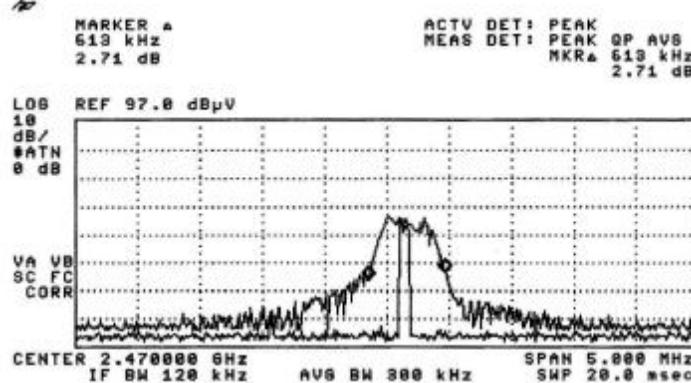
Lowest Channel Frequency



Mid Channel Frequency



Highest Channel Frequency



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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 12 of 18

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

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
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.

Radiated Emissions Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB μ V/m	Limit @3m dB μ V/m	Level @3m @3m μ V/m	Limit @3m μ V/m
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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香 港 標 準 及 檢 定 中 心
Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 13 of 18

3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.4:2003
Test Date:	N/A
Mode of Operation:	N/A

Results: N/A

There is no provision for operating the EUT from AC mains power, therefore, this test is not applicable.

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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 14 of 18

Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	15/06/04
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	15/06/04
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	15/06/04
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	15/06/04
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	15/06/04
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	15/06/04
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	15/06/04
EM020	HORN ANTENNA	EMCO	3115	4032	30/07/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	30/07/03
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/02/03
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	13/01/04
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	04/10/04
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	28/10/03
EM195	ANTENNA POSITIONING MAST	EMCO	2075	2368	N/A
EM196	MULTI-DEVICE CONTROLLER	EMCO	2090	1662	N/A
EM223	HORN ANTENNA	EMCO	3160-09	08163126	18/06/04
EM224	HORN ANTENNA	EMCO	3160-09	08198430	20/06/04

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	14/10/04
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	CM
EM142	PULES LIMITER	R & S	ESH3Z2	357.8810.52	04/08/04
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	06/01/04
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	17/10/03
EM197	LISN	EMCO	4825/2	1193	05/06/04

Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined

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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 15 of 18

Appendix B

Duty Cycle Correction During 100msec

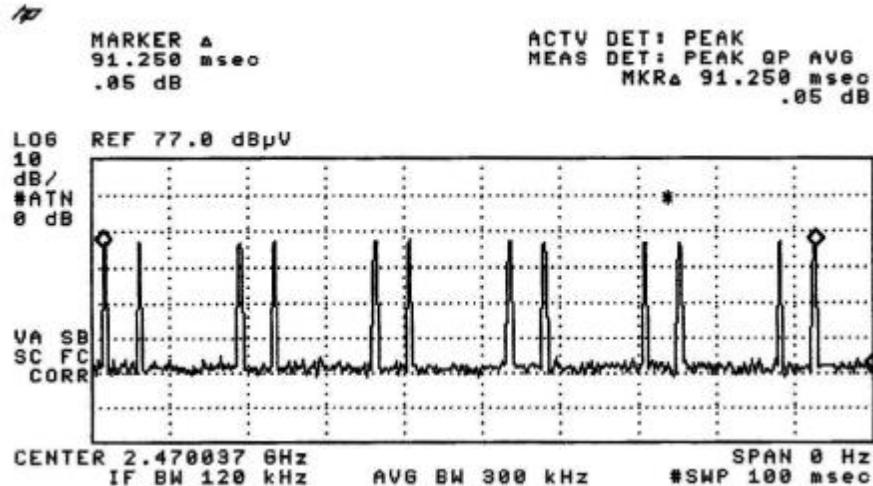
Each function key sends a different series of characters, but each pulse period (91.25msec) never exceeds a series of 12 long (300 μ sec) or short (225 μ sec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered 12x300 μ sec per 91.25msec=3.9% duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction = $20\log(0.0.39) = -28.1\text{dB}$

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

Figure A [Pulse Train]



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Hong Kong Standards and Testing Centre

Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 16 of 18

Figure B [Long Pulse]

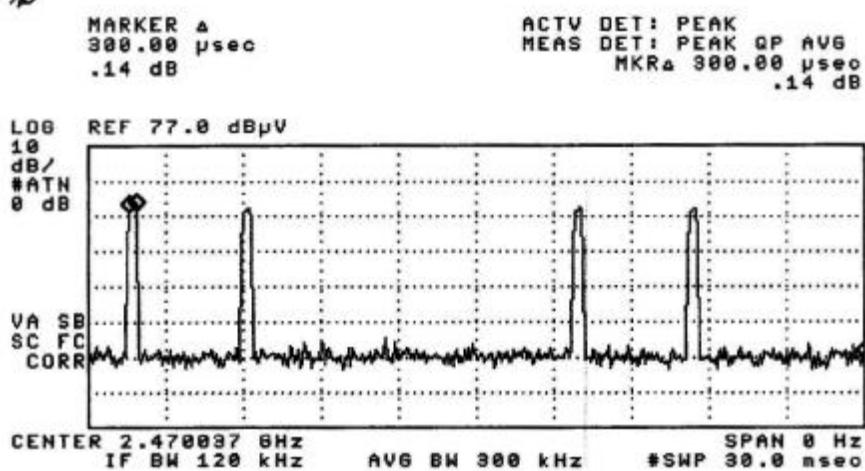
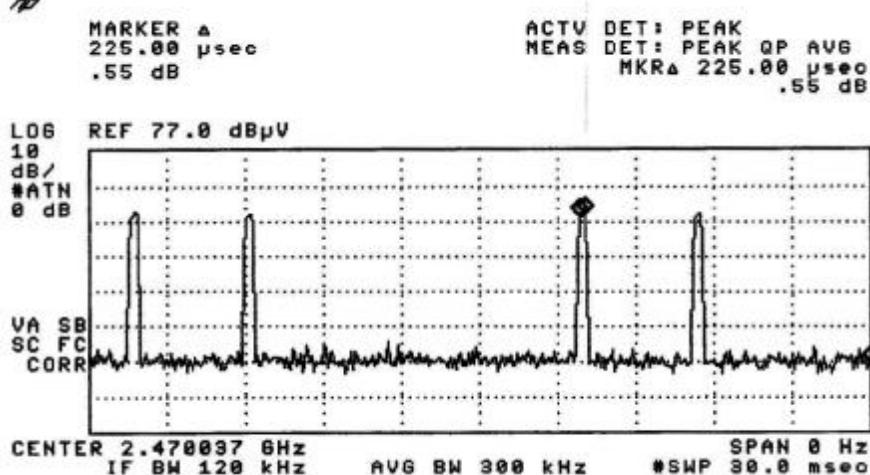


Figure C [Short Pulse]



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Date : 2006-02-20
No. : HM155853

TEST REPORT

Page 17 of 18

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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TEST REPORT

Page 18 of 18

Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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