



## STC Test Report

Date : 2006-04-18

Page 1 of 20

No. : HM156358

**Applicant:** Belkin Corporation  
501 West Walnut Street, Compton,  
California 90220 United States

**Description of Samples:** Model name: TuneCommand AV  
Model no.: F8Z065  
Brand name: BELKIN  
FCC ID: K7SF8Z065-Rx

**Date Samples Received:** 2006-03-29

**Date Tested:** 2006-04-10

**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:** ----

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

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## STC Test Report

Date : 2006-04-18

No. : HM156358

Page 2 of 20

### **CONTENT:**

Cover	Page 1 of 20
Content	Page 2-3 of 20
<b><u>1.0</u></b> <b><u>General Details</u></b>	
1.1 Test Laboratory	Page 4 of 20
1.2 Applicant Details	Page 4 of 20
Applicant	
HKSTC Code Number for Applicant	
Manufacturer	
1.3 Equipment Under Test [EUT]	Page 5 of 20
Description of EUT operation	
1.4 Date of Order	Page 5 of 20
1.5 Submitted Sample	Page 5 of 20
1.6 Test Duration	Page 5 of 20
1.7 Country of Origin	Page 5 of 20
<b><u>2.0</u></b> <b><u>Technical Details</u></b>	
2.1 Investigations Requested	Page 6 of 20
2.2 Test Standards and Results Summary	Page 6 of 20
<b><u>3.0</u></b> <b><u>Test Results</u></b>	
3.1 Radiated Emission	Page 7-9 of 20
3.2 Conducted Emission	Page 10-12 of 20
3.3 Bandwidth Measurement	Page 13-14 of 20

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## STC Test Report

Date : 2006-04-18

Page 3 of 20

No. : HM156358

### Appendix A

List of Measurement Equipment

Page 15 of 20

### Appendix B

Duty Cycle Correction During 100 msec

Page 16-17 of 20

### Appendix C

Photographs

Page 18-20 of 20

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## STC Test Report

Date : 2006-04-18

Page 4 of 20

No. : HM156358

### **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**

Belkin Corporation  
501 West Walnut Street, Compton,  
California 90220 United States

#### **Manufacturer**

N/A

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## STC Test Report

Date : 2006-04-18

Page 5 of 20

No. : HM156358

### **1.3 Equipment Under Test [EUT]**

#### **Description of Sample**

Model Name: TuneCommand AV

Manufacturer: N/A

Brand Name: BELKIN

Model Number: F8Z065

Input Voltage: 12Vd.c. with jack

The AC/DC Adaptor used for the tests was provided by the applicant with the following details: Model Number: U120080D31, Input: 120Va.c. 60Hz 21.6W, Output: 12Vd.c. 800mA

#### **1.3.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a Belkin Corporation. TuneCommand AV, the transmission signal is frequency hopping with channel frequency 2.433GHz.

### **1.4 Date of Order**

2006-03-29

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

1 Sample per model

### **1.6 Test Duration**

2006-04-10

### **1.7 Country of Origin**

China

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## STC Test Report

Date : 2006-04-18

Page 6 of 20

No. : HM156358

### **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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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## STC Test Report

Date : 2006-04-18

Page 7 of 20

No. : HM156358

### **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: 2006-04-10  
Mode of Operation: Tx mode (Base Unit)

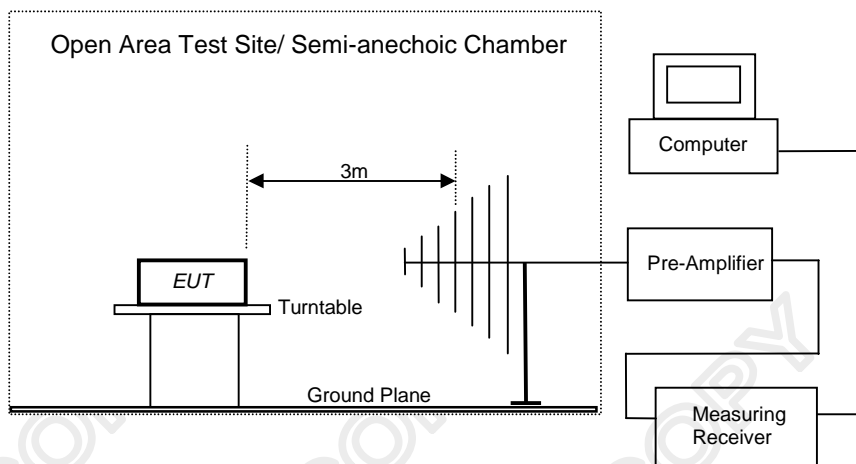
##### **Test Method:**

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.

\*\* Semi-anechoic chamber located at HKSTC filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756. (This has been used in the report)

##### **Test Setup:**



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## STC Test Report

Date : 2006-04-18

Page 8 of 20

No. : HM156358

### 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 Transmit Mode : 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
2433.0	59.0	30.5	89.5	29,853.8	50,000	Horizontal
* 4866.0	21.6	35.4	57.0	707.9	500	Horizontal
* 7299.0	<b>No Emission Detected</b>				500	Vertical
9732.0					500	Vertical
* 12165.0					500	Vertical
14598.0					500	Vertical
17031.0					500	Vertical
* 19464.0					500	Vertical
21897.0					500	Vertical
24330.0					500	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
2433.0	53.7	30.5	84.2	16,218.1	50,000	Horizontal
* 4866.0	16.3	35.4	51.7	384.6	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  $\pm$ 4.1dB  
1GHz to 18GHz  $\pm$ 4.4dB

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## STC Test Report

Date : 2006-04-18

Page 9 of 20

No. : HM156358

### 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
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 $\mu\text{V/m}$	Limit @3m dB $\mu\text{V/m}$	Level @3m @3m $\mu\text{V/m}$	Limit @3m $\mu\text{V/m}$
<b>NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS.</b>					

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty	:	30MHz to 1GHz	$\pm 4.1\text{dB}$
		1GHz to 18GHz	$\pm 4.4\text{dB}$

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## STC Test Report

Date : 2006-04-18

Page 10 of 20

No. : HM156358

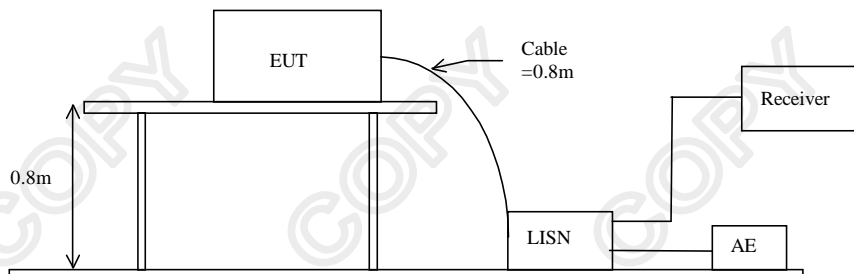
### 3.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207 Class B  
Test Method: ANSI C63.4:2003  
Test Date: 2006-04-10  
Mode of Operation: On Mode

#### Test Method:

The test was performed in accordance with ANSI C63.4: 2003, with the following: initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### Test Setup:



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## STC Test Report

Date : 2006-04-18

Page 11 of 20

No. : HM156358

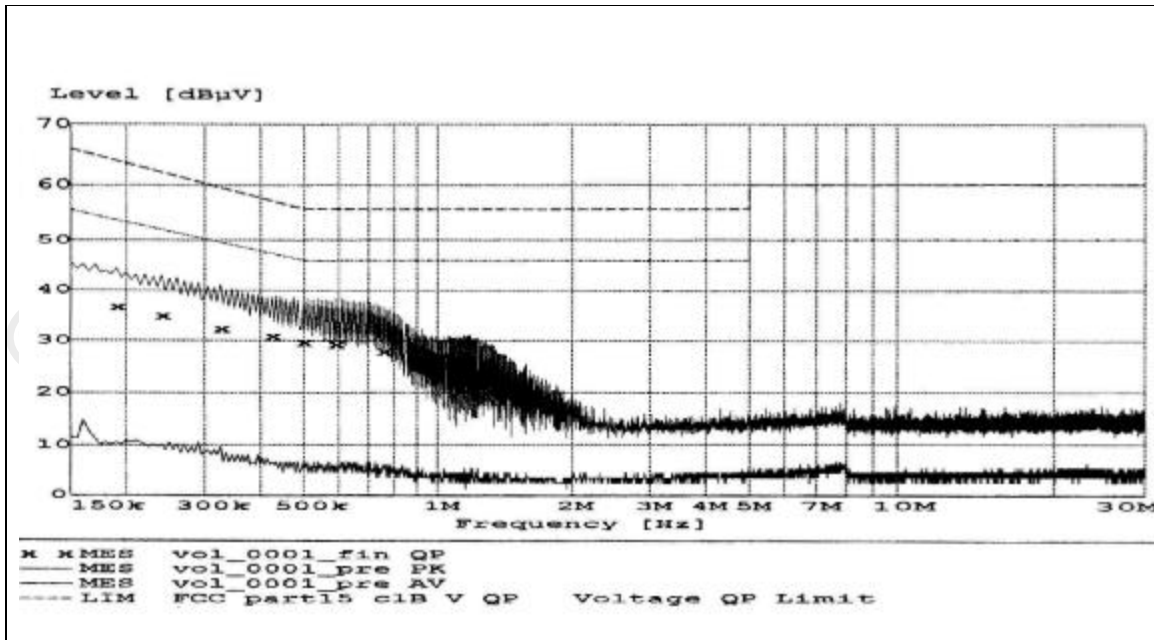
### Limits for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dB $\mu$ V]	Average [dB $\mu$ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Results of On Mode: PASS



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## STC Test Report

Date : 2006-04-18

Page 12 of 20

No. : HM156358

### Results of On Mode: PASS

Conductor	Frequency	Quasi-Peak		Average	
		Level	Limit	Level	Limit
Live or Neutral	MHz	$\text{dB}\mu\text{V}$	$\text{dB}\mu\text{V}$	$\text{dB}\mu\text{V}$	$\text{dB}\mu\text{V}$
Live	0.325	32.3	60	-*	-*
Live	0.755	27.8	56	-*	-*
Neutral	0.190	36.7	64	-*	-*
Neutral	0.240	34.8	62	-*	-*
Neutral	0.425	30.8	57	-*	-*
Neutral	0.500	29.5	56	-*	-*
Neutral	0.590	29.2	56	-*	-*
Neutral	1.120	21.8	56	-*	-*

Remarks:

Calculated measurement uncertainty:  $\pm 2.8\text{dB}$

-\*- Emission(s) that is far below the corresponding limit line.

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## STC Test Report

Date : 2006-04-18

Page 13 of 20

No. : HM156358

### **3.3 Bandwidth of Fundamental Emission**

Test Requirement: FCC 47 CFR 15.249  
Test Method: ANSI C63.4:2003 (Section 13.1.7)  
Test Date: 2006-04-10  
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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## STC Test Report

Date : 2006-04-18

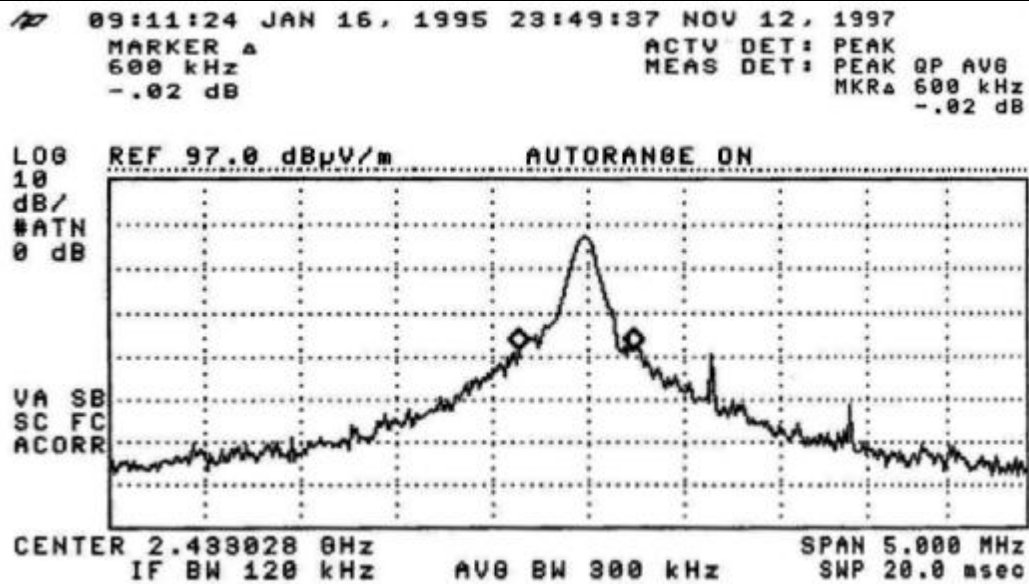
Page 14 of 20

No. : HM156358

### Limits for Bandwidth of Fundamental Emission:

Frequency Range [MHz]	Bandwidth [kHz]	FCC Limits [MHz]
2433	600	within 2400-2483.5

### Bandwidth of Fundamental Emission



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## STC Test Report

Date : 2006-04-18

Page 15 of 20

No. : HM156358

### 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
EM020	HORN ANTENNA	ETS-Linggren	3115	4032	30/07/03
EM022	LOOP ANTENNA	ETS-Linggren	6502	1189-2424	19/09/03
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A
EM083	OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/02/03
EM131	EMC ANALYZER	HEWLETT PACKARD	8595EM	3710A00155	13/01/04
EM145	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCS 30	830245/021	04/10/04
EM195	ANTENNA POSITIONING MAST	ETS-Linggren	2075	2368	N/A
EM196	MULTI-DEVICE CONTROLLER	ETS-Linggren	2090	1662	N/A
EM215	MULTIDEVICE CONTROLER	ETS-Linggren	2090	00024676	N/A
EM216	MINI MAST SYSTEM	ETS-Linggren	2075	00026842	N/A
EM217	ELECTRIC POWERED TURNTABLE	ETS-Linggren	2088	00029144	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--	19/03/04
EM219	BICONILOG ANTENNA	ETS-Linggren	3142C	00029071	28/10/03
EM218	ETS ANECHOIC CHAMBER	EMCO	Fact-3	N/A	15/03/04
EM215	MULTI-DEVICE CONTROLLER	EMCO	2090	00024676	N/A
EM216	ANTENNA POSITIONING MAST	EMCO	2070	00024727	N/A

##### 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	27/01/05
EM119	LISN	ROHDE & SCHWARZ	ESH3-Z5	0831.5518.52	14/10/04
EM127	ISOLATION TRANSFORMER 220 TO 300V	WING SUN	N/A	N/A	CM
EM142	PULSE LIMITER	ROHDE & SCHWARZ	ESH3Z2	357.8810.52	04/08/04
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	06/01/04
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057-99A	27/01/05
EM197	LISN	ETS-Linggren	4825/2	1193	05/06/04
EM213	DIGITAL POWER METER	VICNOBL	VIP120	00277	14/09/04

##### Remarks:-

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

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## STC Test Report

Date : 2006-04-18

Page 16 of 20

No. : HM156358

### Appendix B

#### Duty Cycle Correction During 100msec

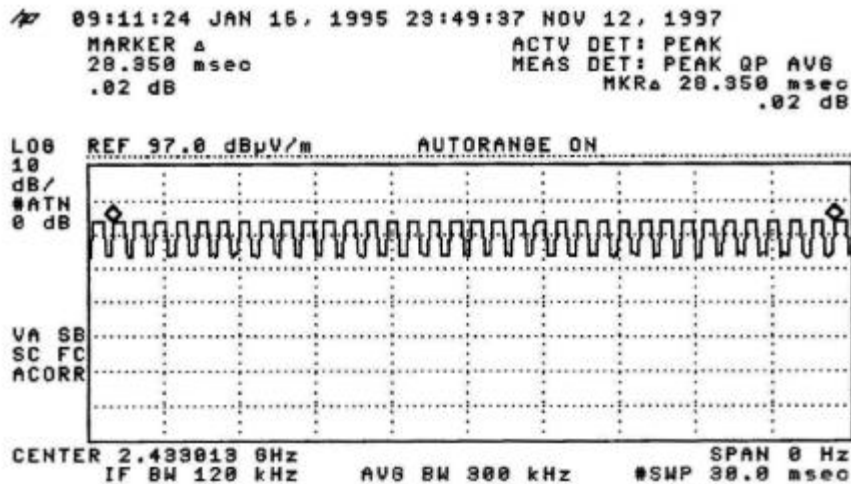
Each function key sends a different series of characters, but each pulse period (28.358msec) never exceeds a series of 34 long (450µsec) or short (375µsec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered  $34 \times 450 \mu\text{sec}$  per 28.358msec = 53.9% duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction =  $20\text{Log}(0.539) = -5.3\text{dB}$

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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## STC Test Report

Date : 2006-04-18

Page 17 of 20

No. : HM156358

Figure B [Long Pulse]

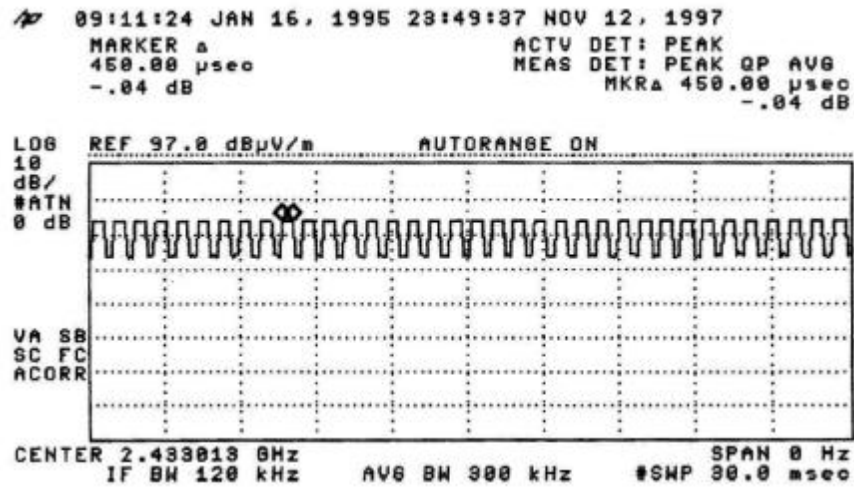
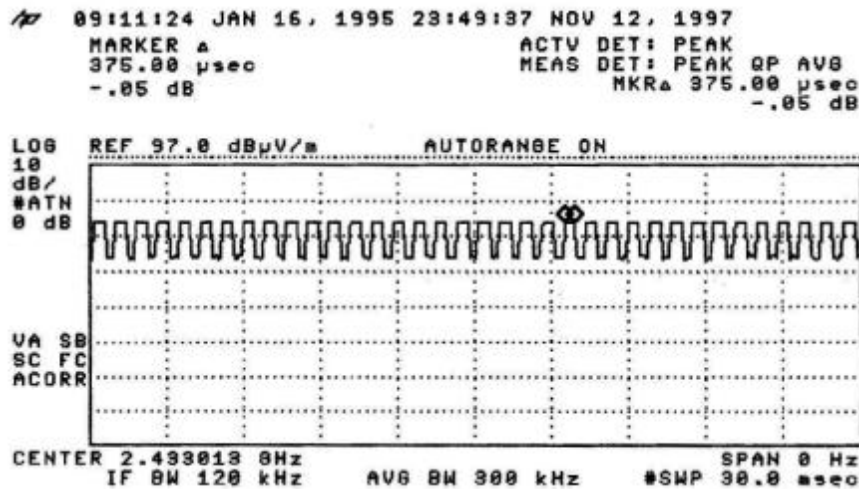


Figure C [Short Pulse]



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## STC Test Report

Date : 2006-04-18

Page 18 of 20

No. : HM156358

### 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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## STC Test Report

Date : 2006-04-18

Page 19 of 20

No. : HM156358

### Photographs of EUT

#### Measurement of Radiated Emission Test Set Up



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## STC Test Report

Date : 2006-04-18

Page 20 of 20

No. : HM156358

### Measurement of Conducted Emission Test Set Up



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