



## STC Test Report

Date : 2008-09-05

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No. : HM162427

**Applicant (MUE001):** Musical Electronics Limited.  
8/F., Wider Industrial Building, 58 Tsun Yip Street, Kwun  
Tong, Kowloon, Hong Kong.

**Manufacturer:** Musical Electronics (Qing Yuan) Ltd.  
Tai He Industrial Park, Qing Xin County, Qing Yuan, Quang  
Dong, China

**Description of Samples:** Product: Opp Wireless Speaker – Sizzler  
Brand Name: Rocketfish  
Model Number: RF-WS01 SPEAKER  
FCC ID: AUISP706LRX

**Date Samples Received:** 2008-06-24

**Date Tested:** 2008-07-03 to 2008-07-22

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in  
accordance with FCC 47CFR [Codes of Federal Regulations]  
Part 15: 2007 and ANSI C63.4:2003 for FCC Certification.

**Conclusions:** 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.

**Remarks:** For additional models details, see page 4.

Dr. LEE Kam Chuen,  
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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### **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**

Musical Electronics Limited.  
8/F., Wider Industrial Building, 58 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong.

#### **Manufacturer**

Musical Electronics (Qing Yuan) Ltd.  
Tai He Industrial Park, Qing Xin County, Qing Yuan, Quang Dong, China

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

#### **Description of Sample**

Product: Opp Wireless Speaker – Sizzler  
Manufacturer: Musical Electronics (Qing Yuan) Ltd.  
Brand Name: Rocketfish  
Model Number: RF-WS01 SPEAKER  
Additional Model Number(s): RF-WS01-W SPEAKER  
Input Voltage: 12Vd.c. 1000mA

The AC/DC Adaptor used for the tests was provided by the applicant with the following details:  
Two pins (Live / Neutral) only adaptor, Model Number: KSS12-120-1000U, Input: 100-240V a.c. 50/60Hz 350mA, Output: 12Vd.c. 1000mA

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

The Equipment Under Test (EUT) is a Musical Electronics Limited., OPP WIRELESS SPEAKER – SIZZLER, the transmission signal is within the 2.405-2.477GHz frequency range.

### **1.4 Date of Order**

2008-06-24

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

1 Sample

### **1.6 Test Duration**

2008-07-03 to 2008-07-22

### **1.7 Country of Origin**

N/A

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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: 2007 Regulations and ANSI C63.4:2003 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

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

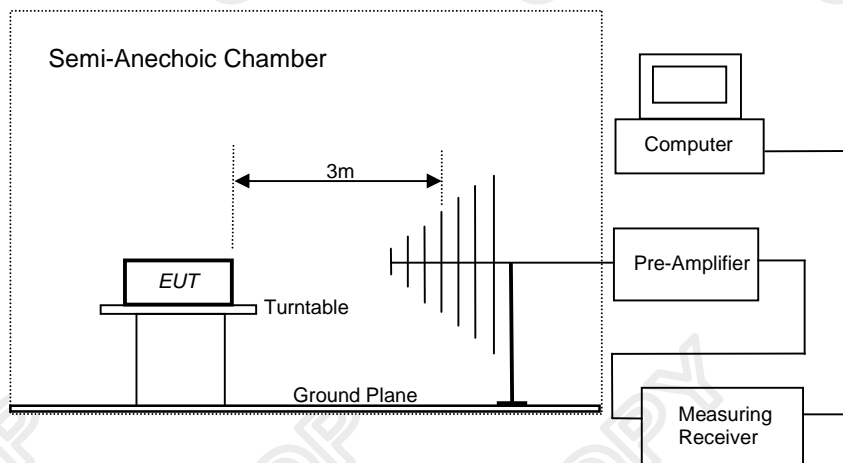
Test Requirement:	FCC 47CFR 15.249
Test Method:	ANSI C63.4:2003
Test Date:	2008-07-03
Mode of Operation:	Communication mode and Communication mode (spurious except harmonics)

#### **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 Communication mode (Tx mode – Lowest Channel Frequency): 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
2405.0	64.5	29.1	93.6	47,863.0	500,000	Horizontal
* 4810.0	No Emission Detected				500	Vertical
7215.0					500	Vertical
9620.0					500	Vertical
* 12025.0					500	Vertical
14430.0					500	Vertical
16835.0					500	Vertical
* 19240.0					500	Vertical
21645.0					500	Vertical
24050.0					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
2405.0	39.1	29.1	68.2	2,570.4	50,000	Horizontal

#### Remarks:

No further spurious emissions found between lowest internal frequency and 30MHz

\*: 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	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 Communication mode (Tx mode – Mid Channel Frequency): 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
2439.0	64.6	29.5	94.1	50,699.1	500,000	Horizontal
* 4878.0	No Emission Detected				500	Vertical
7317.0					500	Vertical
9756.0					500	Vertical
* 12195.0					500	Vertical
14634.0					500	Vertical
17073.0					500	Vertical
* 19512.0					500	Vertical
21951.0					500	Vertical
24390.0					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
2439.0	41.8	29.5	71.3	3,672.8	50,000	Horizontal

### Remarks:

No further spurious emissions found between lowest internal frequency and 30MHz

\*: 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	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 Communication mode (Tx mode – Highest Channel Frequency): 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
2477.0	60.6	29.7	90.3	32,734.1	500,000	Horizontal
* 4954.0	No Emission Detected				500	Vertical
7431.0					500	Vertical
9908.0					500	Vertical
* 12385.0					500	Vertical
14862.0					500	Vertical
17339.0					500	Vertical
* 19816.0					500	Vertical
22293.0					500	Vertical
24770.0					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
2477.0	32.4	29.7	62.1	1,273.5	50,000	Horizontal

Remarks:

No further spurious emissions found between lowest internal frequency and 30MHz

\*: 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	5.2dB
		1GHz to 18GHz	5.1dB

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

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

### Results of Communication mode (Tx Spurious except harmonics): Pass

Radiated Emissions Quasi - Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m $\text{dB}\mu\text{V}/\text{m}$	Limit @3m $\text{dB}\mu\text{V}/\text{m}$	Level @3m $\mu\text{V}/\text{m}$	Limit @3m $\mu\text{V}/\text{m}$
45.1	Vertical	27.3	40.0	23.2	100
128.0	Horizontal	39.1	43.5	90.2	150
144.0	Vertical	32.0	43.5	39.8	150
192.0	Horizontal	28.5	43.5	26.6	150
384.0	Vertical	37.8	46	77.6	200

### Results of Communication mode (Rx Spurious except harmonics): Pass

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

Remarks:

No further spurious emissions found between lowest internal frequency and 30MHz

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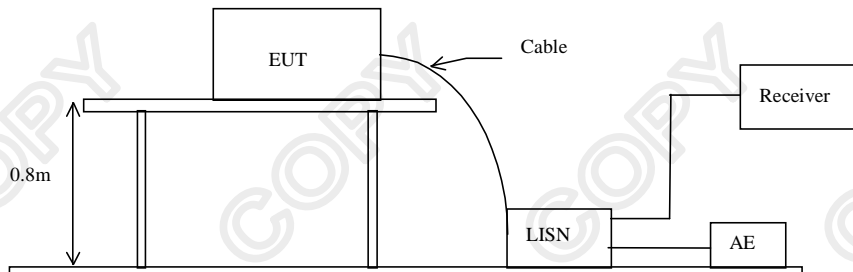
### 3.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.107  
Test Method: ANSI C63.4:2003  
Test Date: 2008-07-22  
Mode of Operation: Communication mode

#### Test Method:

The test was performed in accordance with ANSI C63.4: 2003, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line 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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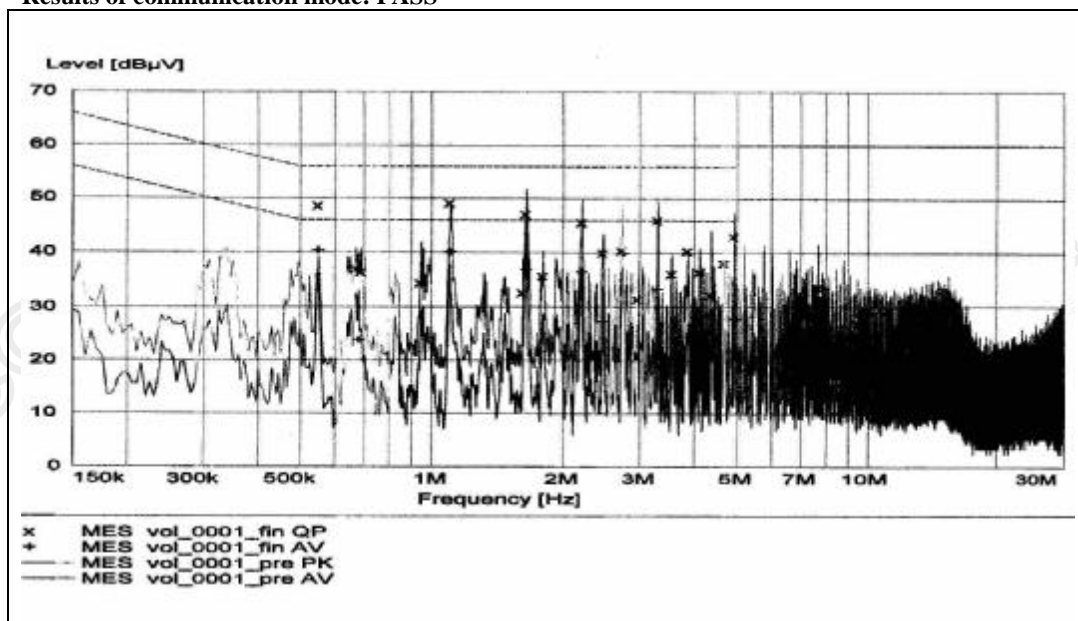
### Limit for Conducted Emissions (FCC 47 CFR 15.107):

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 communication mode: PASS



Remarks:

Calculated measurement uncertainty : 3.97dB

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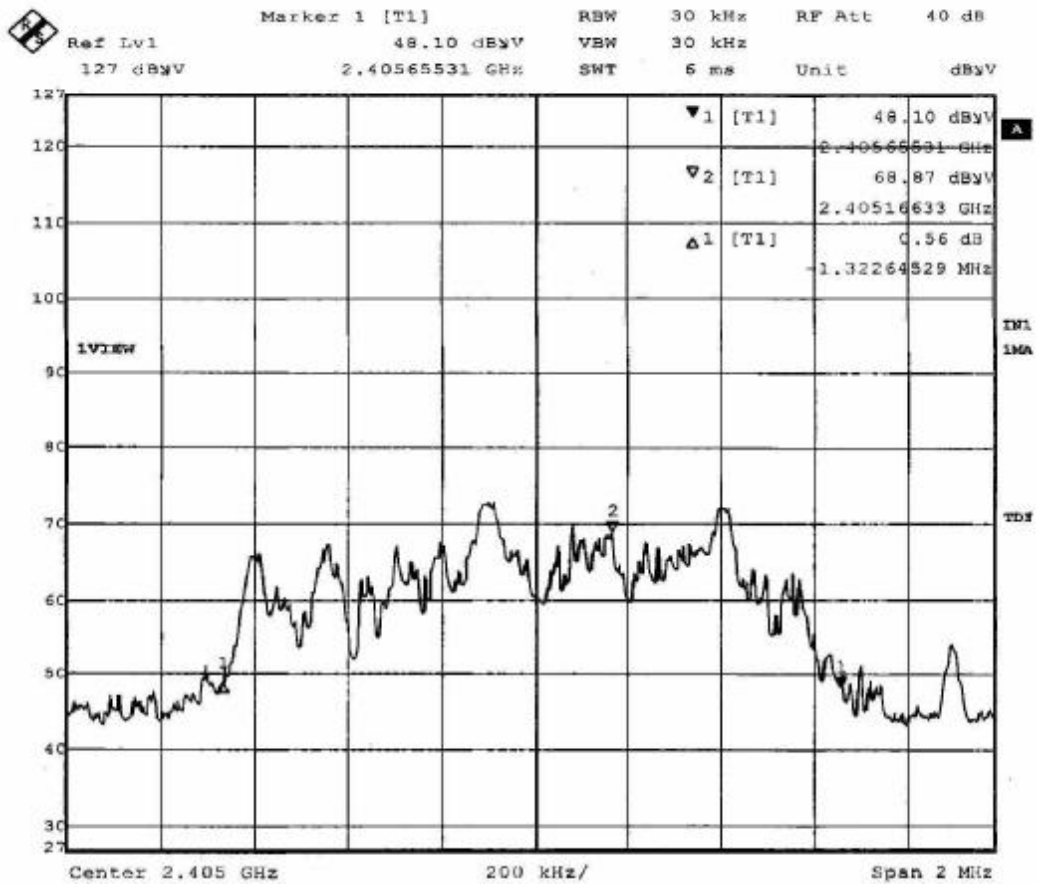
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### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [GHz]	20dB Bandwidth [MHz]
2.405	1.32

### 20dB Bandwidth of Fundamental Emission



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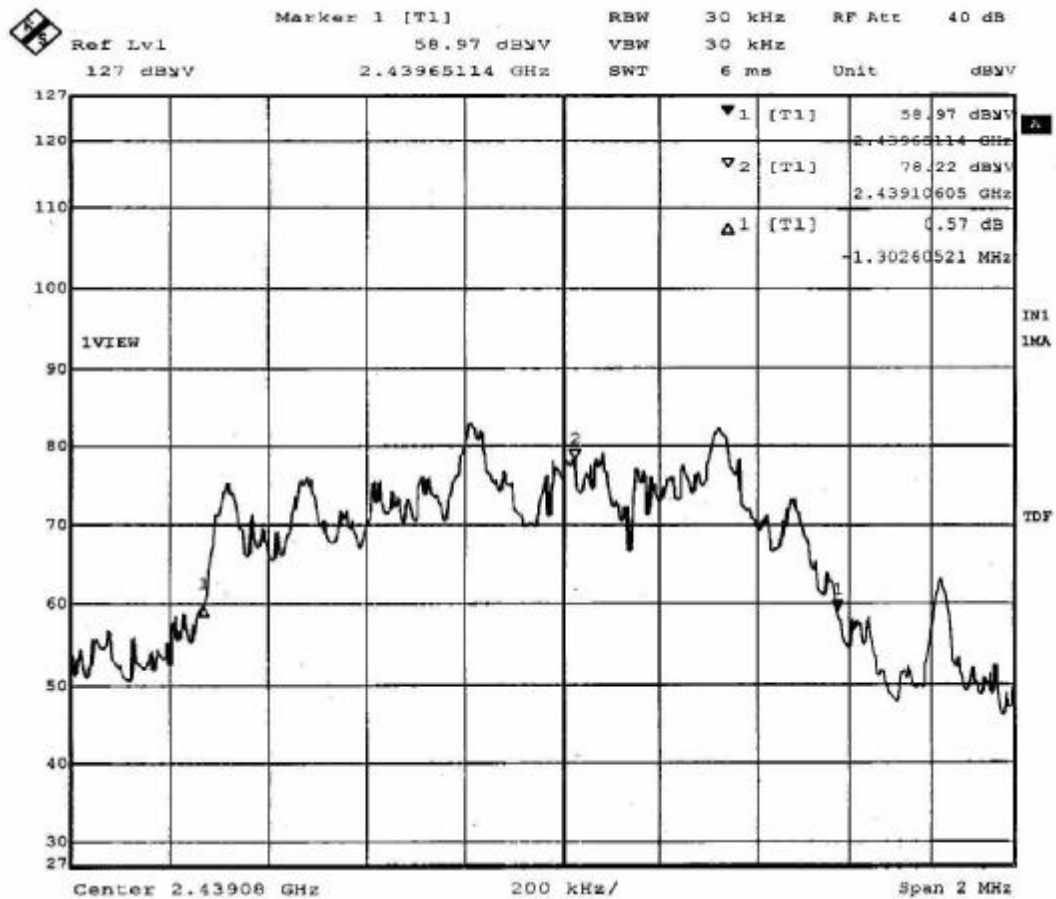
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### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [GHz]	20dB Bandwidth [MHz]
2.439	1.30

### 20dB Bandwidth of Fundamental Emission



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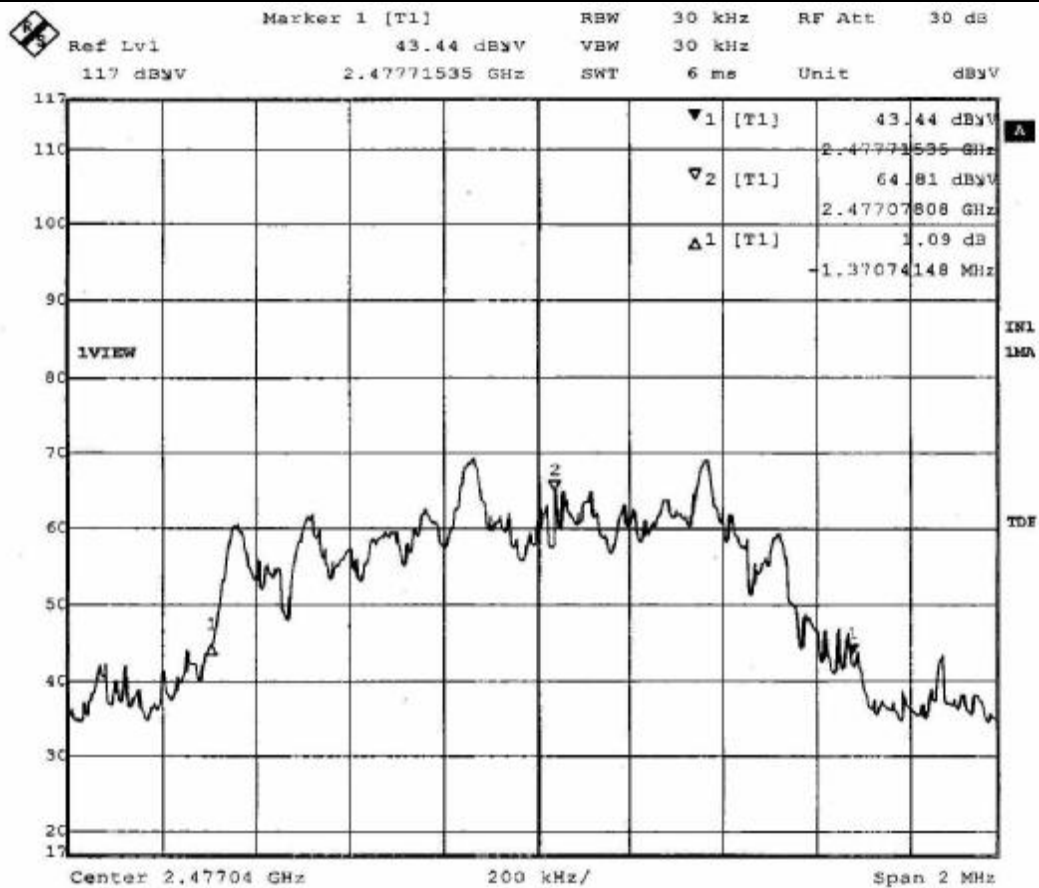
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### Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [GHz]	20dB Bandwidth [MHz]
2.477	1.37

### 20dB Bandwidth of Fundamental Emission



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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	2006/07/11	2009/07/11
EM215	MULTIDEVICE CONTROLER	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	--	2006/05/02	2009/05/02
EM174	BICONILOG ANTENNA	EMCO	3142C	00029071	2008/01/24	2009/01/24
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2008/06/16	2009/06/16
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2006/07/26	2009/07/26

##### Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM197	LISN	EMCO	4825/2	1193	2007/10/30	2009/10/30
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2008/06/16	2009/06/16
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2008/01/23	2009/01/23

Remarks:-

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

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### Appendix B

#### Photographs of EUT

**Front View of the product**



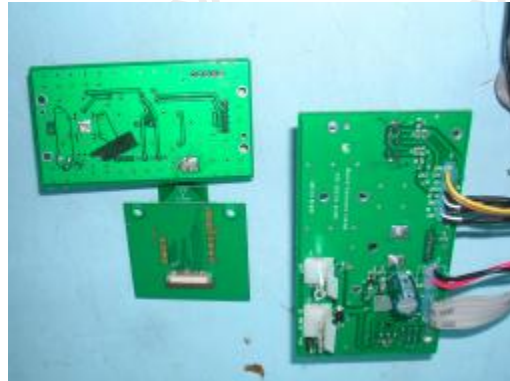
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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### Photographs of EUT

Measurement of Radiated Emission Test Set Up



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## STC Test Report

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### Photographs of EUT

Measurement of Conducted Emission Test Set Up



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

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