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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 556682

Report No.: SZEMO060902026RFI

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FCC ID: UOZIT-5045806

# FCC TEST REPORT

Application No. :SZEMO060902026RFApplicant:IQ Hong Kong LtdFCC ID:UOZIT-5045806

Fundamental Carrier Frequency: 2.4038GHz and 2.4791GHz

**Equipment Under Test (EUT):** 

Name: Ithing Shower Speaker

Model: IT-50458

Standards: FCC PART 15: 2006

Please refer to section 2 for further details.

Date of Receipt: 07 Septemberl 2006

Date of Test: 08 to 25 September 2006

**Date of Issue:** 26 September 2006

Test Result : PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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# 2 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2006	Section 15.207	PASS
Flied Strength of Fundamental	FCC PART 15 :2006	Section 15.249 (a)	PASS
Flied Strength of Harmornics or other Frequency	FCC PART 15 :2006	Section 15.249 (a) Section 15.209	PASS
Occupied Bandwidth	FCC PART 15 :2006	Section 15.249	PASS
Band Edges Measurement	FCC PART 15 :2006	Section 15.249 (d)	PASS



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### 4 General Information

#### 4.1 Client Information

Applicant Name: IQ Hong Kong Ltd

Applicant Address: Rm 9, 21/F, Mega Trade centre 1-6 Mei Wan Street, Tsuen Wan, Hong

Kong

### 4.2 General Description of E.U.T.

Product Name: Ithing Shower Speaker

Model: IT-50458

Power Supply: Transmitter Part : 4.5V DC

Receiver Part: 9.0V DC

Power Cord: N/A-

### 4.3 Description of Support Units

The EUT was tested as an independent unit.

The transmitter have 16 frequencies in the 2.4GHz and 2.4835GHz can in exchange for choice.

### 4.4 Standards Applicable for Testing

The customer requested FCC tests for Ithing Shower Speaker.

The standard used was FCC PART 15, SUBPART C (2006) section 15.249.

### 4.5 Test Location

All tests were performed at:-

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 8215 5555 Fax: +86 20 8207 5059

### 4.6 Other Information Requested by the Customer

None.



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### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### NVLAP – Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2004.

#### ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

#### VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2005. Valid until September 28, 2008

#### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### CNAL – LAB Code: L0141

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

#### • FCC - Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, Aug. 04, 2005.

#### • Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6002.



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# 5 Test Results

### 5.1 Test Instruments

ltem	Test Equipment	ment Manufacturer		Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	SEL0017	28-04-2005	27-04-2007
2	EMI Test Receiver	Rohde & Schwarz	100249	22-09-2006	21-09-2007
3	EMI Test software	AUDIX	E3	N/A	N/A
4	Coaxial cable	SGS	SEL0028	20-05-2006	19-05-2007
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	00042673	03-03-2006	02-03-2007
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	2944A10861	26-08-2006	25-08-2007
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	00035926	30-12-2004	29-12-2006
8	Pre-amplifier (1-18GHz)	Rohde & Schwarz	1091457	29-07-2006	28-07-2007
9	Cable (0-18GHz)	MCE Mobile Communications	249439	20-05-2006	19-05-2007
9	Shielding Room	Shielding Room ZhongYu Electron		N/A	N/A
10	LISN	SN ETS-LINDGREN		19-09-2006	18-09-2007
11	EMI Test Receiver Rohde & Schwarz		100119	03-03-2006	02-03-2007
12	Coaxial Cable SGS		SEL0024	20-05-2006	19-05-2007

# 5.2 E.U.T. Operation

Input voltage: 4.5V DC

Operating Environment:

Temperature:  $24.0 \, ^{\circ}\text{C}$  Humidity:  $52 \, ^{\circ}\text{RH}$  Atmospheric Pressure:  $1003 \, \text{mbar}$ 

EUT Operation: Test in transmitting mode:

For channel BOTTOM:2.4038GHz.
 For channel MIDDLE: 2.4389GHz.
 For channel TOP: 2.4791GHz.



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#### 5.3 Test Procedure & Measurement Data

#### 5.3.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4

Test Date: 08 September 2006(Initial Test)

Frequency Range: 150KHz to 30MHz

Class / Severity: Class B

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

#### 5.3.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52% RH Atmospheric Pressure:1012 Mbar

#### 5.3.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

The EUT has pretested MP3 and Ipod mode, and lopd is worst case.



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Camera.

Line.

Frequency (MHz)	Cable Loss (dB)	LISN Factor (dB)	Read Level (dBuV)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark
0.199	-0.10	-0.05	24.37	24.22	63.65	-39.43	QP
0.199	-0.10	-0.05	11.40	11.25	53.65	-42.40	Average
0.312	0.00	-0.04	28.49	28.45	59.92	-31.47	QP
0.312	0.00	-0.04	21.39	21.35	49.92	-28.57	Average
0.546	0.00	-0.04	18.29	18.25	56.00	-37.75	QP
0.546	0.00	-0.04	11.24	11.20	46.00	-34.80	Average
1.000	0.10	-0.05	15.39	15.44	56.00	-40.56	QP
1.000	0.10	-0.05	10.22	10.27	46.00	-35.73	Average
2.000	0.10	-0.06	14.85	14.89	56.00	-41.11	QP
2.000	0.10	-0.06	10.35	10.39	46.00	-35.61	Average
3.500	0.10	-0.08	14.36	14.38	56.00	-41.62	QP
3.500	0.10	-0.08	10.14	10.16	46.00	-35.84	Average

Neutral.

Frequency (MHz)	Cable Loss (dB)	LISN Factor (dB)	Read Level (dBuV)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark
0.202	-0.10	-0.04	23.56	23.42	63.53	-40.11	QP
0.202	-0.10	-0.04	11.97	11.83	53.53	-41.70	Average
0.320	0.00	-0.04	19.34	19.30	59.71	-40.41	QP
0.320	0.00	-0.04	10.68	10.64	49.71	-39.07	Average
0.550	0.00	-0.04	18.36	18.32	56.00	-37.68	QP
0.550	0.00	-0.04	6.70	6.66	46.00	-39.34	Average
1.000	0.10	-0.05	13.64	13.69	56.00	-42.31	QP
1.000	0.10	-0.05	4.65	4.70	46.00	-41.30	Average
2.000	0.10	-0.06	10.36	10.40	56.00	-45.60	QP
2.000	0.10	-0.06	4.60	4.64	46.00	-41.36	Average
5.120	0.10	-0.12	7.35	7.33	60.00	-52.67	QP
5.120	0.10	-0.12	3.36	3.34	50.00	-46.66	Average



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#### 5.3.4 Radiated Emissions

#### 5.3.4.1 Test in transmitting mode

Test Requirement: FCC Part15 C

Test Method: Based on FCC Part15 C Section 15.249

Test Date: 08 September 2006(Initial Test)

25 September 2006(Retest)

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range 30 MHz – 10GHz for transmitting mode.

Test instrumentation resolution bandwidth 120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 M – 25GHz)

Receive antenna scan height 1 - 4 m, polarization Vertical/ Horizontal

Requirements:

Operation:

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics and Spurious Emissions
(MHz)	(dBuV/m @ 3m)	(dBuV/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

The fundamental frequency of the EUT is 2414, 2431.9 2450 and 2468MHz

The limit for average field strength dBuv/m for the fundamental frequency = 94.0 dBμV/m.

No fundamental is allowed in the restricted bands.

The limit for average field strength  $dB\mu V/m$  for the harmonics and spurious frequencies = 54.0  $dB\mu V/m$ . Spurious in the restricted bands must be less than 54.0  $dB\nu V/m$  or 15.209.

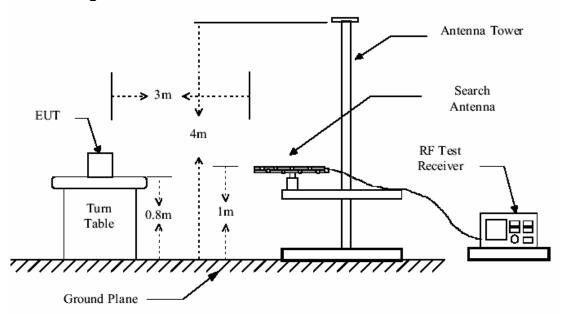
**Test Procedure:** The procedure uesd was ANSI Standard C63.4-2003. The receive was scanned from 30MHz to 25GHz. When an emission was found, the table was roated to produce the maximum signal strength. An initial prescan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

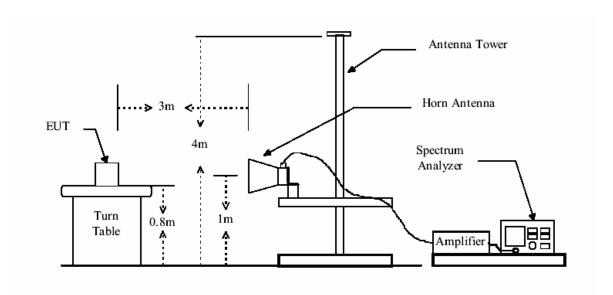


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# **Test Configuration:**







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The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier . The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Peramlifer Factor

The following test results were performed on the EUT:

The EUT has pretested MP3 and Ipod mode, and lopd is worst case.

For Radiated Emission(30M—1GHz)

### Vertical

Frequency	Cable	Antenna	Preamp	Read	Level	Limit	0ver
(MHz)	Loss	Factor	Factor	Level		Line	Limit
(WITZ)	(dB)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
86.26	1.1	8.36	27.97	46.2	27.69	40.0	-12.31
95.96	1.16	8.95	27.91	46.74	28.94	43.5	-14.56
104.69	1.21	8.87	27.83	49.28	31.53	43.5	-11.97
159.01	1.34	9.56	27.39	43.26	26.77	43.5	-16.73
211.39	1.47	10.81	27.09	40.12	25.31	43.5	-18.19
354.95	2.08	15.53	27.12	39.89	30.38	46.0	-15.62

### Horizontal

Eroguenov	Cable	Antenna	Preamp	Read	Level	Limit	0ver
Frequency (MHz)	Loss	Factor	Factor	Level	(dBuV/m)	Line	Limit
(WITZ)	(dB)	(dB/m)	(dB)	(dBuV)	(ubuv/III)	(dBuV/m)	(dB)
87.23	1.1	8.45	27.96	47.69	29.28	40.0	-10.72
93.05	1.13	8.82	27.93	49.84	31.86	43.5	-11.64
110.51	1.23	8.57	27.77	46.76	28.79	43.5	-14.71
147.37	1.31	8.76	27.47	40.27	22.87	43.5	-20.63
159.01	1.34	9.56	27.39	42.02	25.53	43.5	-17.97
279.29	1.81	12.98	26.8	35.97	23.96	46.0	-22.04



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Above 1GHz

For Channel BOTTOM: (1). Fundamental emission

### **Peak Measurement**

Test Frequency	Measuring Le	vel (dBuV/m)	Limits	Margi	in (dB)
(MHz)	Vertical	Horizontal	(dBuV/m)	Vertical	Horizontal
2403.8	67.94	64.24	114.0	46.06	49.76
	A	verage Meas	urement		
2403.8	56.64	52.54	94.0	37.36	41.46

### (2). Harmonics & Spurious Emissions

### **Peak Measurement**

Test Frequency		Measuring L	evel (dBuV/m)	Limits	Over Limit (dB)		
	(MHz)	Vertical	Horizontal	(dBuV/m)	Vertical	Horizontal	
2)	4807.61	54.84	52.58	74.0	19.16	21.42	
3)	7211.42	41.50	39.95	74.0	32.50	34.05	
4)	9615.25	37.63	37.67	74.0	36.37	36.33	
5)	12019.13	N/A	N/A	74.0	N/A	N/A	
6)	14422.86	N/A	N/A	74.0	N/A	N/A	
7)	16826.67	N/A	N/A	74.0	N/A	N/A	
8)	19230.42	N/A	N/A	74.0	N/A	N/A	
9)	21634.27	N/A	N/A	74.0	N/A	N/A	
10)	24038.36	N/A	N/A	74.0	N/A	N/A	
			Average Mea	asurement			
2)	4807.61	45.71	43.44	54.0	8.29	10.56	
3)	7211.42	32.37	30.65	54.0	21.63	23.35	
4)	9615.25	33.21	30.90	54.0	20.79	23.10	
5)	12019.13	N/A	N/A	54.0	N/A	N/A	
6)	14422.86	N/A	N/A	54.0	N/A	N/A	
7)	16826.67	N/A	N/A	54.0	N/A	N/A	
8)	19230.42	N/A	N/A	54.0	N/A	N/A	
9)	21634.27	N/A	N/A	54.0	N/A	N/A	
10)	24038.36	N/A	N/A	54.0	N/A	N/A	



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The following test results were performed on the EUT:

For Channel MIDDLE: (1). Fundamental emission

#### **Peak Measurement**

Test	Measuring Le	` '		Margin (dB)	
Frequency (MHz)	Vertical	Horizontal	(dBuV/m)	Vertical	Horizontal
2438.9	68.45	64.29	114.0	45.55	49.71
Average Measurement					
2438.9	57.64	53.46	94.0	36.36	40.54

<sup>(2).</sup> Harmonics & Spurious Emissions

### **Peak Measurement**

Test Frequency (MHz)			ng Level IV/m)	Limits (dBuV/m)	Margi	n (dB)
		Vertical	Horizontal		Vertical	Horizontal
2)	4877.81	55.68	55.12	74.0	18.32	18.88
3)	7316.72	42.97	41.20	74.0	31.03	32.80
4)	9755.63	38.79	38.76	74.0	35.21	35.24
5)	12194.57	N/A	N/A	74.0	N/A	N/A
6)	14633.42	N/A	N/A	74.0	N/A	N/A
7)	17072.34	N/A	N/A	74.0	N/A	N/A
8)	19511.24	N/A	N/A	74.0	N/A	N/A
9)	21950.16	N/A	N/A	74.0	N/A	N/A
10)	24389.13	N/A	N/A	74.0	N/A	N/A
			Average Me	asurement		
2)	4861.17	47.25	44.27	54.0	6.75	9.73
3)	7291.46	35.65	32.24	54.0	18.35	21.76
4)	9721.76	36.50	32.54	54.0	17.50	21.46
5)	12152.05	N/A	N/A	54.0	N/A	N/A
6)	14582.35	N/A	N/A	54.0	N/A	N/A
7)	17012.64	N/A	N/A	54.0	N/A	N/A
8)	19442.93	N/A	N/A	54.0	N/A	N/A
9)	21873.22	N/A	N/A	54.0	N/A	N/A
10)	24303.51	N/A	N/A	54.0	N/A	N/A



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The following test results were performed on the EUT:

For **Channel TOP**: (1). Fundamental emission

### **Peak Measurement**

Test	Measuring Level (dBuV/m)		Limits	Margin (dB)					
Frequency (MHz)	Vertical	Horizontal	(dBuV/m)	Vertical	Horizontal				
2479.1	67.52	64.75	114.0	46.48	49.25				
Average Measurement									
2479.1	55.97	53.21	94.0	38.03	40.79				

<sup>(2).</sup> Harmonics & Spurious Emissions

### **Peak Measurement**

i ear measurement									
Test Frequency (GHz)		Measuring Level (dBuV/m)		Limits (dBuV/m)	Margin (dB)				
		Vertical	Horizontal		Vertical	Horizontal			
2)	4958.21	58.13	44.83	74.0	15.87	29.17			
3)	7437.35	41.50	43.60	74.0	32.50	30.40			
4)	9916.44	40.20	42.50	74.0	33.80	31.50			
5)	12395.57	N/A	N/A	74.0	N/A	N/A			
6)	14874.64	N/A	N/A	74.0	N/A	N/A			
7)	17353.72	N/A	N/A	74.0	N/A	N/A			
8)	19832.84	N/A	N/A	74.0	N/A	N/A			
9)	22311.95	N/A	N/A	74.0	N/A	N/A			
10)	24791.89	N/A	N/A	74.0	N/A	N/A			
Average Measurement									
2)	4958.21	45.23	43.2	54.0	8.77	10.80			
3)	7437.35	32.59	31.02	54.0	24.41	22.98			
4)	9916.44	36.46	31.21	54.0	17.54	22.79			
5)	12395.57	N/A	N/A	54.0	N/A	N/A			
6)	14874.64	N/A	N/A	54.0	N/A	N/A			
7)	17353.72	N/A	N/A	54.0	N/A	N/A			
8)	19832.84	N/A	N/A	54.0	N/A	N/A			
9)	22311.95	N/A	N/A	54.0	N/A	N/A			
10)	24791.89	N/A	N/A	54.0	N/A	N/A			

N/A: refer to remark 1).



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#### Remark:

For this intentional radiator operates below 10 GHz, the spectrum shall be investigated to the tenth
harmonic of the highest fundamental frequency. And above the fifth harmonic of
this intentional radiator, the disturbance is very low. So the test result only displays to 4<sup>th</sup> harmonic.

2). According to 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

TEST RESULTS: The unit does meet the FCC requirements.



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5.3.5 Occupied Bandwidth & Band Edge

> Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.249:

Operation within the band 2.4000 - 2.4835GHz

Test Date: 08 September 2006(Initial Test)

25 September 2006(Retest)

15.249 (d) Emissions radiated outside of the specified frequency bands, Requirements:

except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in

Section 15.209, whichever is the lesser attenuation.

Method of A small sample of the transmitter output was fed into the Spectrum measurement:

Analyzer and the attached plot was taken. The vertical is set to 10dB per

division. The horizontal scale is set to 100KHz per division.

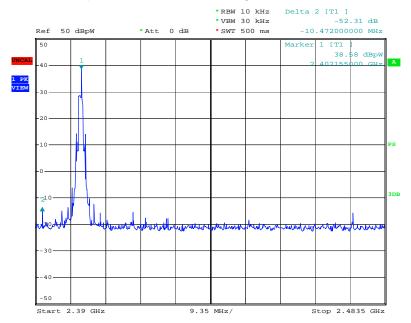


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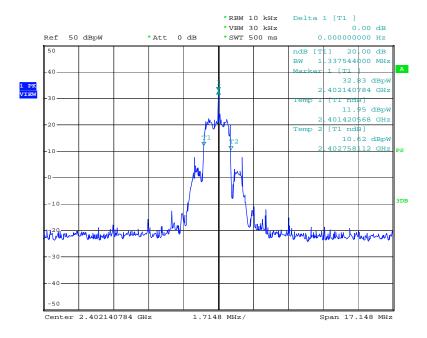
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### (1). For Channel BOTTOM:

The occupied bandwidth and band edge as below:



Date: 27.SEP.2006 11:52:19



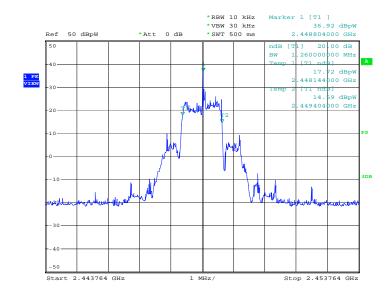


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### 2. For Channel MIDDLE:

(1). The occupied bandwidth



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Date: 27.SEP.2006 11:27:53

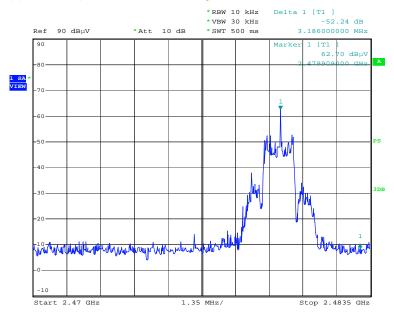


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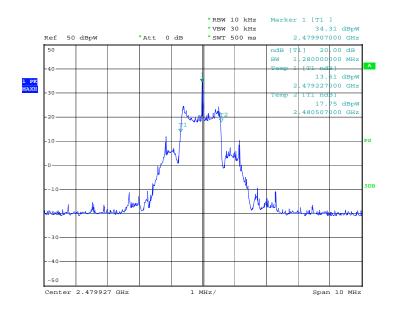
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### 3. For Channel TOP:

(1). The occupied bandwidth and edge as below:



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The test result for the Emissions radiated outside of the specified frequency bands , please refer the section 5.3.1 of this report.

The worst case is 47.25dBuV/m at frequency 4861.17GHz, it's below the limits in Section 15.209.

For the field strength of Lower Edges: 2.4000GHz is 15.63dBuV/m.

For the field strength of Upper Edges: 2.4835GHz is 15.28dBuV/m.

The results: The unit does meet the FCC requirements.