

FCC PART 15.247

EMI MEASUREMENT AND TEST REPORT

For

Coby Communications Ltd.

Unit C-E, 8/F., Po Shau Centre, 115 How Ming Street, Kwun Tong, Kowloon, Hong Kong

FCC ID: RMVCT-P9340

June 21, 2006

This Report Concerns: ☒ Original Report	Equipment Type: 2.4GHz Digital Cordless Telephone
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Report No.: RSZ06040501	
Test Date: May 10-June 20, 2006	
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Note: The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of Bay Area Compliance Lab Corp. (ShenZhen). This report **must not** be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the US Government.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Coby Communications Ltd.*'s product, model number: *CT-P9340* or the "EUT" as referred to in this report is a *2.4 GHz Digital Cordless Telephone*, which measures approximately : Base: 13.0 cm L x 12.0 cm W x 8.0 cm H, Handset : 26.0 cm L x 6.0 cm W x 3.0 cm H, rated input voltage: Battery 3.7V.

Adapter: Model: V09003001201
Input voltage: AC120V 60HZ, 6.6W
Output voltage: 90VD 300mA

** The test data gathered are from production sample, serial number: 0604001 provided by the manufacturer, we receive the EUT on 2006-4-5.*

Objective

This Type approval report is prepared on behalf of *Coby Communications Ltd.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Lab Corp. (ShenZhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Lab Corp. (ShenZhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R.China.

Test site at Bay Area Compliance Lab Corp. (ShenZhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179 and Industrial Canada registration test site No.: 5500A. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Lab Corp. (ShenZhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2007070.htm>

External I/O Cable

Cable Description	Length (M)	From/Port	To
RJ11 Unshielded Cable	1.4	EUT	Telephone Exchange
Unshielded adapter Cable	1.6	EUT	Adapter

SYSTEM TEST CONFIGURATION

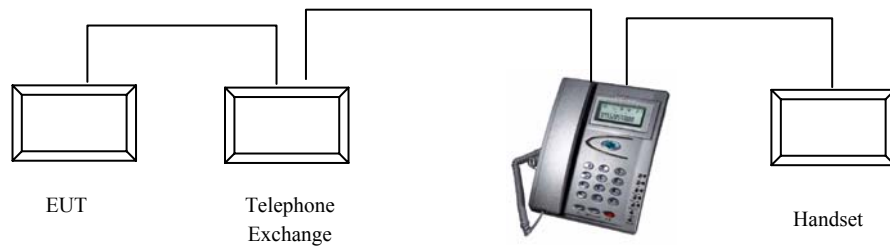
Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

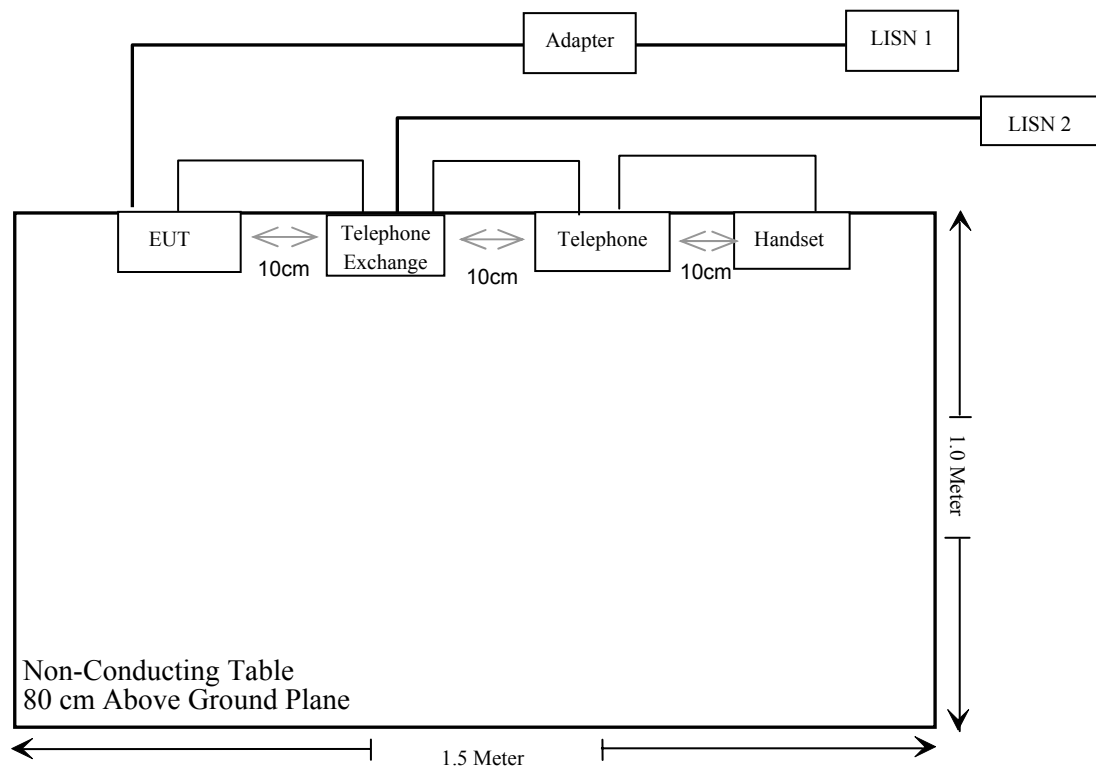
Equipment Modifications

Bay Area Compliance Lab Corp. (ShenZhen) has not done any modification on the EUT.

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247(b)	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207	AC Conducted Emission	Compliant
§15.205, §15.209, §15.247(d)	Radiated Emission	Compliant*
§15.247 (a)(1)	20 dB Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges testing	Compliant

* Within measurement uncertainty.

§15.247(b) - RF EXPOSURE

Limit

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6

f = frequency in MHz

* = Plane-wave equivalent power density

Test Data

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 4.69mw (Handset)

Maximum peak output power at antenna input terminal: 7.98 mw (Base)

Safety distance: 2.73cm (Handset)/1.126cm (Base)

Predication frequency: 2440.0MHz (Base)/2400.8MHz (Handset)

Antenna Gain (typical): 0 (dBi)

MPE limit for uncontrolled exposure at prediction frequency: 5 (mW/cm²)

Test Result: Pass

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to § 15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connected Construction

The EUT was a permanently attached antenna which, in accordance to the above sections, is considered sufficient to comply with the provisions of these sections. Please see EUT photo for details.

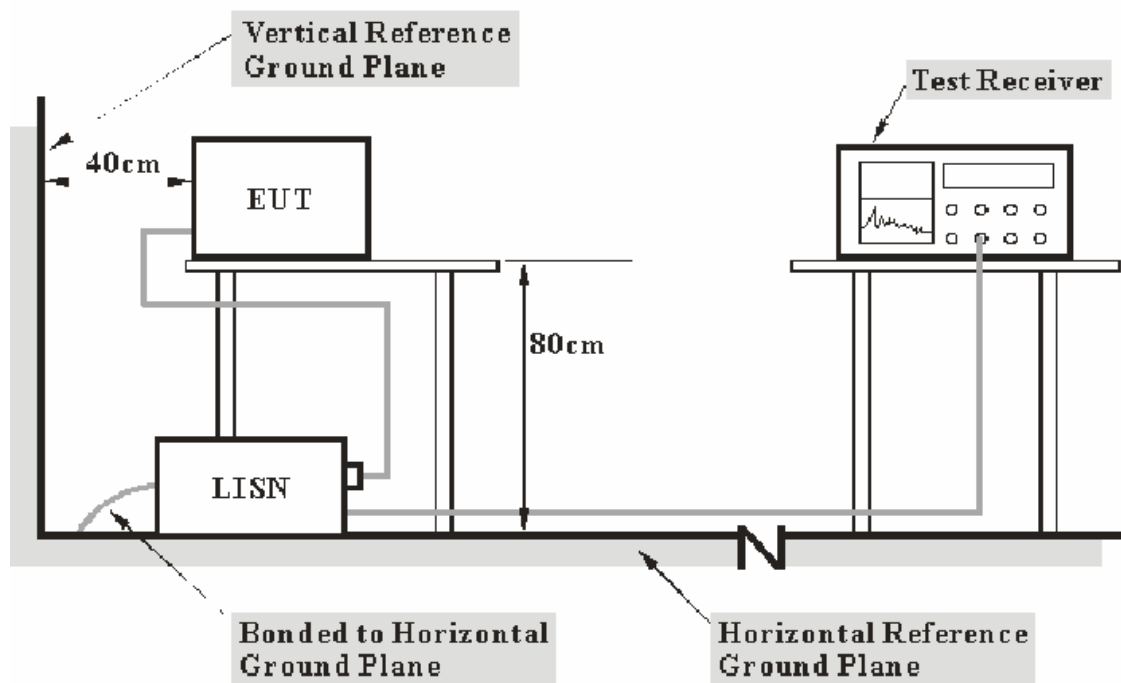
§15.207 (a) - CONDUCTED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 2.4 dB.

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 (a) limits.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<u>Frequency Range</u>	<u>IFBW</u>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12008	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2005-8-17	2006-8-17
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2006-2-28	2007-2-28

* Com-Power's LISN were used as the supporting equipment.

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the Adapter power cord was connected to the outlet of the LISN.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

Transmitting: **-13.31 dB at 10.750 MHz** in the **Neutral** conductor mode.

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	53%
ATM Pressure:	1009mbar

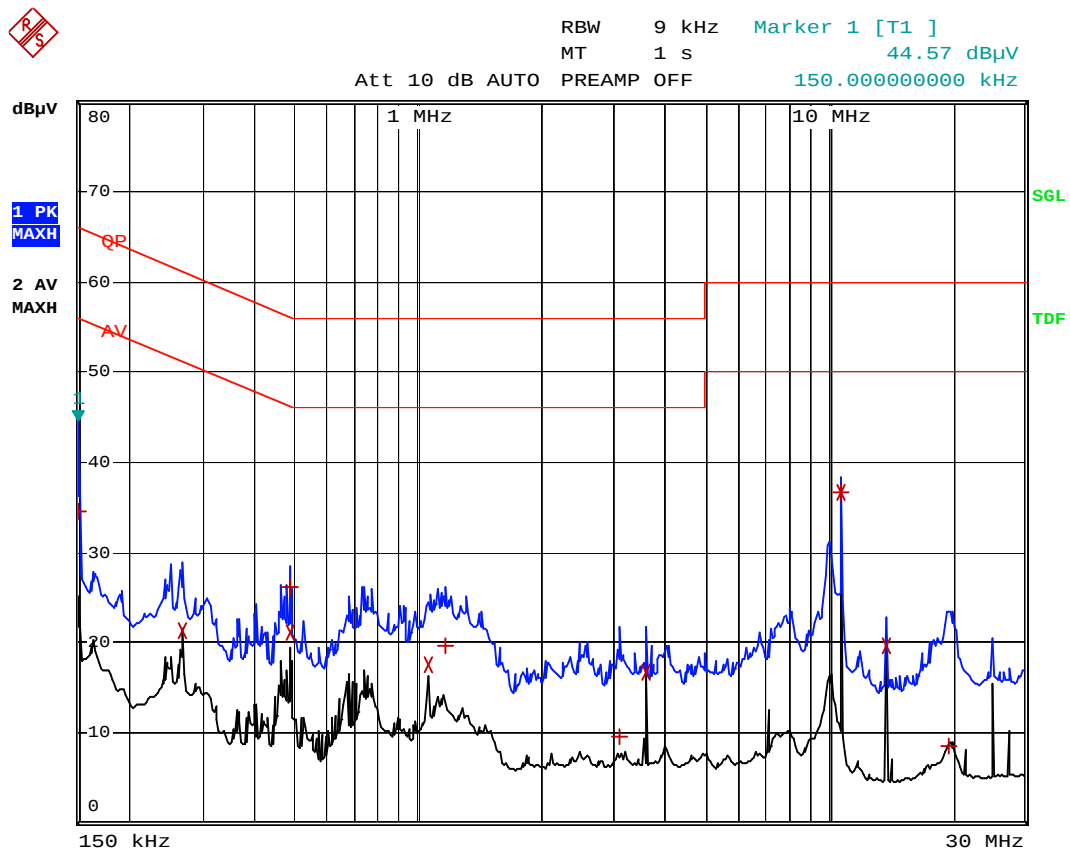
The testing was performed by Louise Lu on 2006-4-10.

Test Mode: Base: Transmitting

Frequency MHz	LINE CONDUCTED EMISSIONS			FCC Part 15.207	
	Amplitude dBμV	Detector QP/AV	Phase Line/Neutral	Limit dBμV	Margin dB
10.750	36.69	AV	Neutral	50.00	-13.31
10.750	36.00	AV	Live	50.00	-14.00
0.490	24.52	AV	Neutral	46.17	-21.65
10.750	36.67	QP	Neutral	60.00	-23.33
10.750	36.64	QP	Live	60.00	-23.36
0.490	21.12	AV	Live	46.17	-25.05
1.062	20.05	AV	Neutral	46.00	-25.95
0.738	27.86	QP	Neutral	56.00	-28.14
1.062	17.53	AV	Live	46.00	-28.47
1.062	26.99	QP	Neutral	56.00	-29.01
3.582	16.72	AV	Live	46.00	-29.28
3.582	16.69	AV	Neutral	46.00	-29.31
0.266	21.37	AV	Live	51.24	-29.87
0.490	26.23	QP	Live	56.17	-29.94
13.826	19.69	AV	Live	50.00	-30.31
0.266	20.18	AV	Neutral	51.24	-31.06
13.826	18.78	AV	Neutral	50.00	-31.22
0.150	34.62	QP	Live	66.00	-31.38
0.266	25.19	QP	Neutral	61.24	-36.05
1.170	19.66	QP	Live	56.00	-36.34
3.586	17.18	QP	Neutral	56.00	-38.82
19.638	17.62	QP	Neutral	60.00	-42.38
3.114	9.51	QP	Live	56.00	-46.49
19.690	8.59	QP	Live	60.00	-51.41

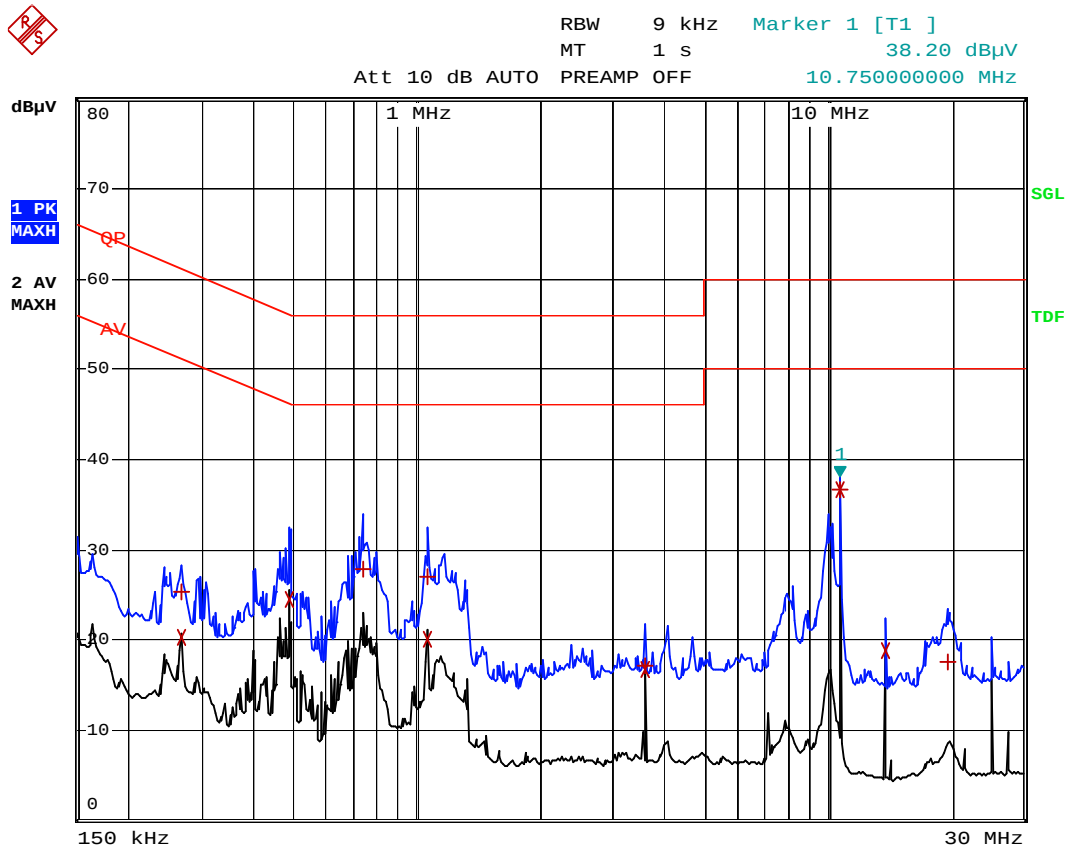
Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.



Coby CT-P9340 conduction running L

Date: 10.APR.2006 22:55:17



Coby CT-P9340 conduction running N

Date: 10.APR.2006 21:21:49

§15.205, §15.209, §15.247 - RADIATED EMISSION

Applicable Standard

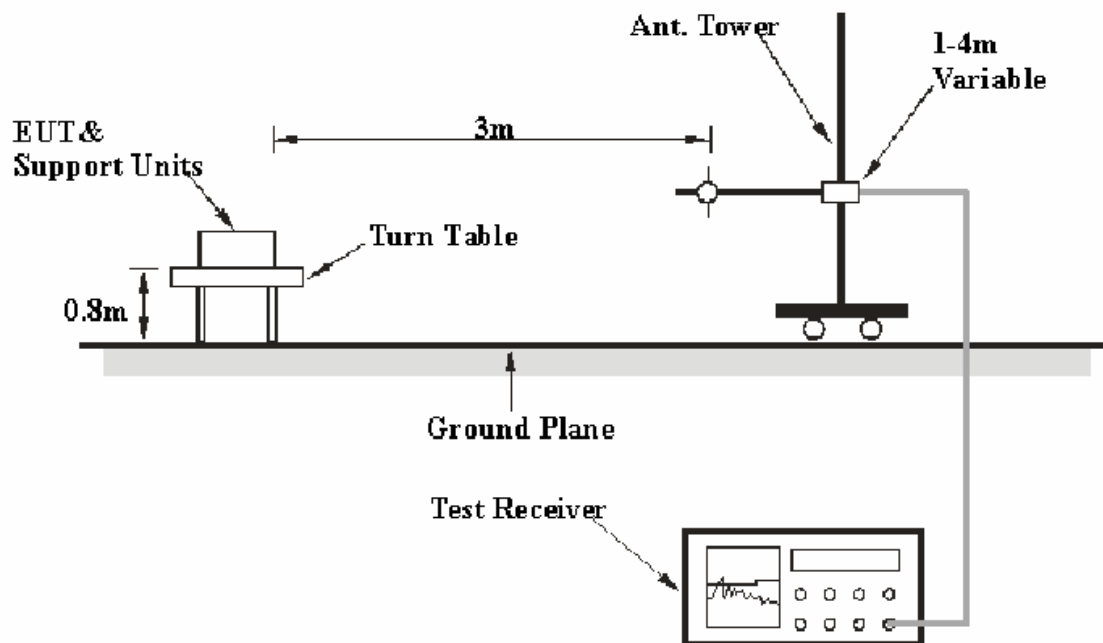
According to FCC §15.247 (d)

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 4.0 dB.

EUT Setup



The radiated emission tests were performed in the 3-meter Chamber, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>
30MHz – 1000 MHz	100 kHz	300 kHz
1000 MHz – 25 GHz	1 MHz	3 MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
A.H. System	Horn Antenna	SAS-200/571	135	2006-4-28	2007-4-28
HP	Amplifier	HP8447D	2944A09795	2005-8-17	2006-8-17
HP	Preamplifier	8449B	3008A00277	2005-8-17	2006-8-17
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2005-11-10	2006-11-10
Rohde&Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2006-4-28	2007-4-28

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the EUT and all support equipment power cords were connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the PK&AV detection mode.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $\pm 7\text{dB}$ means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Standard Limit}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209, and 15.247, with the worst margin reading of:

Base mode: **-2.29 dB** at **4958.9 MHz** in the **Vertical** polarization 1000 -25000MHz. High Channel
16.0 dB at **894.034050 MHz** in the **Vertical** polarization 30 -1000MHz.

Handset mode: **-0.55 dB** at **4872 MHz** in the **Horizontal** polarization. Mid Channel (CH51)
-10.1 dB at **294.938975 MHz** in the **Vertical** polarization. 30 -1000MHz

Test Data

Environmental Conditions

Temperature:	24 ° C
Relative Humidity:	52%
ATM Pressure:	1009mbar

The testing was performed by Deny Xiong on 2006-5-10.

Test Mode: Base: Transmitting

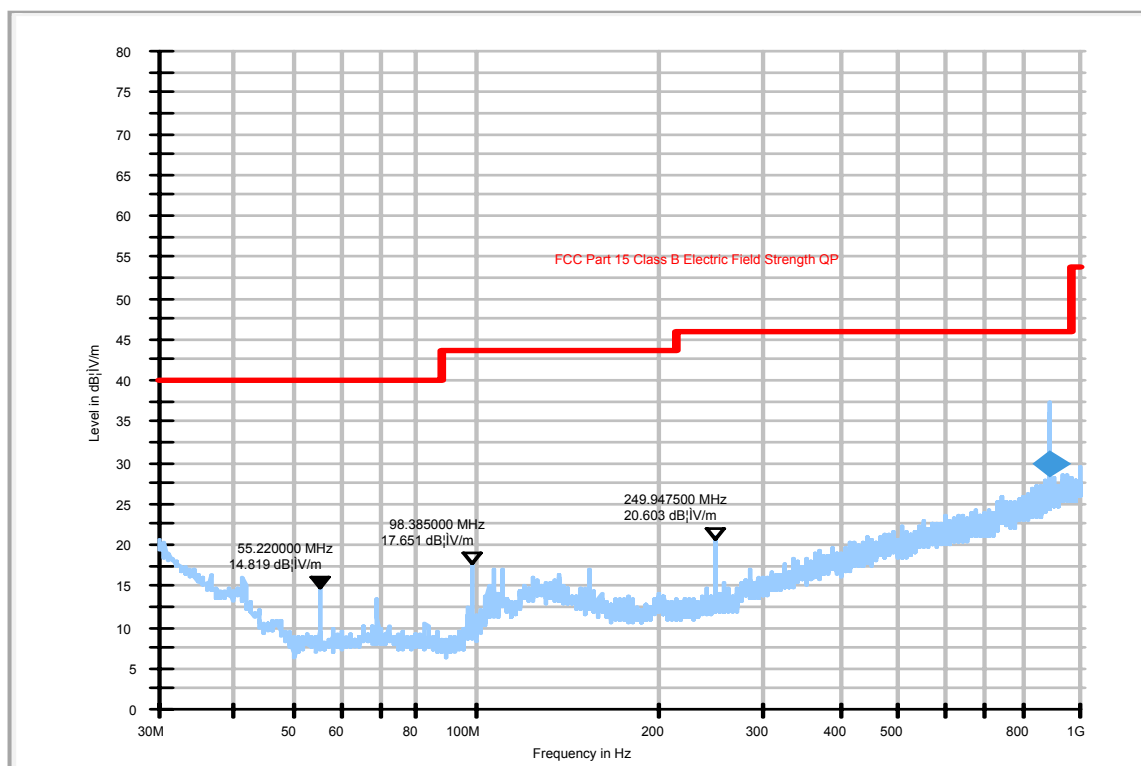
Frequency	Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	Limit	Margin	Remark
MHz	dBuV/m	PK/AV	Degree	Meter	H/V	dBuV/m	dB	dB	dBuV/m			
LOW CHANNEL (1000 -25000 MHz).												
2401.9	98.17	PK	181	1.5	V	27.4	3.61	35.0	94.18	---	---	Fundamental
2401.9	99.60	PK	91	1.5	H	27.4	3.61	35.0	95.61	---	---	Fundamental
2401.9	48.53	AV	181	1.5	V	27.4	3.61	35.0	44.54	---	---	Fundamental
2401.9	49.02	AV	91	1.5	H	27.4	3.61	35.0	45.03	---	---	Fundamental
4803.8	67.17	PK	270	1.61	V	31.3	4.64	33.4	69.71	74	-4.29	Harmonic
4803.8	66.67	PK	360	1.22	H	31.3	4.64	33.4	69.21	74	-4.79	Harmonic
7205.7	59.05	PK	1	1.20	H	37.0	4.75	33.7	67.10	74	-6.90	Harmonic
7205.7	58.05	PK	1	1.20	V	37.0	4.75	33.7	66.10	74	-7.90	Harmonic
4803.8	42.01	AV	270	1.61	V	31.3	4.64	33.4	44.55	54	-9.45	Harmonic
4803.8	43.05	AV	360	1.22	H	31.3	4.64	33.4	45.59	54	-8.41	Harmonic
7205.7	22.05	AV	1	1.20	H	37.0	4.75	33.7	30.10	54	-23.90	Harmonic
7205.7	21.06	AV	1	1.20	V	37.0	4.75	33.7	29.11	54	-24.89	Harmonic
MIDDLE CHANNEL (1000 -25000 MHz)												
2440.4	97.83	PK	181	1.5	V	27.4	3.61	35.0	93.84	---	---	Fundamental
2440.4	50.16	AV	181	1.5	V	27.4	3.61	35.0	46.17	---	---	Fundamental
2440.4	100.33	PK	1	1.5	H	27.4	3.61	35.0	96.34	---	---	Fundamental
2440.4	47.17	AV	1	1.5	H	27.4	3.61	35.0	43.18	---	---	Fundamental
4880.8	66.30	PK	271	1.61	V	31.3	4.64	33.4	68.84	74	-5.16	Harmonic
4880.8	65.06	PK	361	1.22	H	31.3	4.64	33.4	67.6	74	-6.40	Harmonic
7321.2	57.06	PK	1	1.20	H	37.0	4.75	33.7	65.11	74	-8.89	Harmonic
7321.2	58.10	PK	1	1.20	V	37.0	4.75	33.7	66.15	74	-7.85	Harmonic
4880.8	43.05	AV	271	1.61	V	31.3	4.64	33.4	45.59	54	-8.41	Harmonic
4880.8	44.09	AV	361	1.22	H	31.3	4.64	33.4	46.63	54	-7.37	Harmonic
7321.2	23.50	AV	1	1.20	H	37.0	4.75	33.7	31.55	54	-22.45	Harmonic
7321.2	22.08	AV	1	1.20	V	37.0	4.75	33.7	30.13	54	-23.87	Harmonic
HIGH CHANNEL (1000 -25000 MHz)												
2479.48	112.00	PK	181	1.30	V	27.4	3.61	33.4	109.61	---	---	Fundamental
2479.48	51.67	AV	181	1.30	V	27.4	3.61	33.4	49.28	---	---	Fundamental
2479.48	118.67	PK	1	1.30	H	27.4	3.61	33.4	116.28	---	---	Fundamental
2479.48	54.33	AV	1	1.30	H	27.4	3.61	33.4	51.94	---	---	Fundamental
4958.9	69.17	PK	271	1.61	V	31.3	4.64	33.4	71.71	74	-2.29*	Harmonic
4958.9	68.67	PK	361	1.22	H	31.3	4.64	33.4	71.71	74	-2.79*	Harmonic
7438.4	61.50	PK	1	1.20	H	37.0	4.75	33.7	69.55	74	-4.45	Harmonic
7438.4	60.67	PK	1	1.20	V	37.0	4.75	33.7	68.72	74	-5.28	Harmonic
4958.9	44.17	AV	271	1.61	V	31.3	4.64	33.4	46.71	54	-7.29	Harmonic
4958.9	44.00	AV	361	1.22	H	31.3	4.64	33.4	46.34	54	-7.46	Harmonic
7438.4	23.33	AV	1	1.20	H	37.0	4.75	33.7	31.38	54	-22.62	Harmonic
7438.4	23.21	AV	1	1.20	V	37.0	4.75	33.7	31.26	54	-22.74	Harmonic

REMARKS:

1. If the PEAK meets the AVERAGE limit, nothing further is required.
2. If the PEAK exceeds the AVERAGE limit, then AVERAGE measurement is required (calculated) and must be below the AVERAGE limit and also;
3. The PEAK measurement cannot exceed the average limit by +20dB.

Test Mode: Base: Running (30MHz-1GHz)

Auto Test (FCC 15.247)



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity
894.034050	30.0	1000.000	120.000	375.0	V

(Continuation of the "Final Measurement Detector 1" table from column 6.)

Frequency (MHz)	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
894.034050	321.0	-0.4	16.0	46.0

Test Mode: Handset: Transmitting Low Frequency (CH11)

Frequency	Meter Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier Gain	Corr. Ampl.	FCC Part 15.247		
MHz	dBuV/m	PK/QP/AV	Degree	Meter	H / V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	
1000 -25000MHz												
2400.8	103.5	PK	134	1.0	V	27.4	3.61	35.0	99.51			Fundamentall
2400.8	49.33	AV	134	1.0	V	27.4	3.61	35.0	45.34			Fundamentall
7203	46.67	AV	344	1.0	V	35.4	4.51	33.7	52.88	54	-1.12*	Harmonic
7203	66.0	PK	344	1.0	V	35.4	4.51	33.7	72.21	74	-1.79*	Harmonic
4801.6	42.67	AV	253	1.0	V	31.3	4.64	32.5	46.11	54	-7.89	Harmonic
4801.6	61.33	PK	253	1.0	V	31.3	4.64	32.5	64.77	74	-9.23	Harmonic
2400.8	104.17	PK	342	1.0	H	27.4	3.61	35.0	100.18			Fundamentall
2400.8	48.83	AV	342	1.0	H	27.4	3.61	35.0	44.84			Fundamentall
7203	45.0	AV	280	1.0	H	35.4	4.51	33.7	51.21	54	-2.79*	Harmonic
7203	64.67	PK	280	1.0	H	35.4	4.51	33.7	70.88	74	-3.12*	Harmonic
4801.6	67.0	PK	90	1.0	H	31.3	4.64	32.5	70.44	74	-3.56*	Harmonic
4801.6	43.83	AV	90	1.0	H	31.3	4.64	32.5	47.27	54	-6.73	Harmonic

Test Mode: Handset: Transmitting Low Frequency (CH51)

Frequency	Meter Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier Gain	Corr. Ampl.	FCC Part 15.247		
MHz	dBuV/m	PK/QP/AV	Degree	Meter	H / V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	
1000 -25000MHz												
2436	108.33	PK	195	1.37	H	27.4	3.61	34.1	105.24			Fundamentall
2436	56.5	AV	195	1.37	H	27.4	3.61	34.1	53.41			Fundamentall
4872	51.0	AV	186	1.68	H	31.3	4.55	33.4	53.45	54	-0.55*	Harmonic
4872	69.17	PK	186	1.68	H	31.3	4.55	33.4	71.62	74	-2.38*	Harmonic
2436	104.5	PK	325	1.14	V	27.4	3.61	34.1	101.41			Fundamentall
2436	56.33	AV	325	1.14	V	27.4	3.61	34.1	53.24			Fundamentall
4872	49.83	AV	207	1.24	V	31.3	4.55	33.4	52.28	54	-1.72*	Harmonic
4872	65.17	PK	207	1.24	V	31.3	4.55	33.4	67.62	74	-6.38	Harmonic

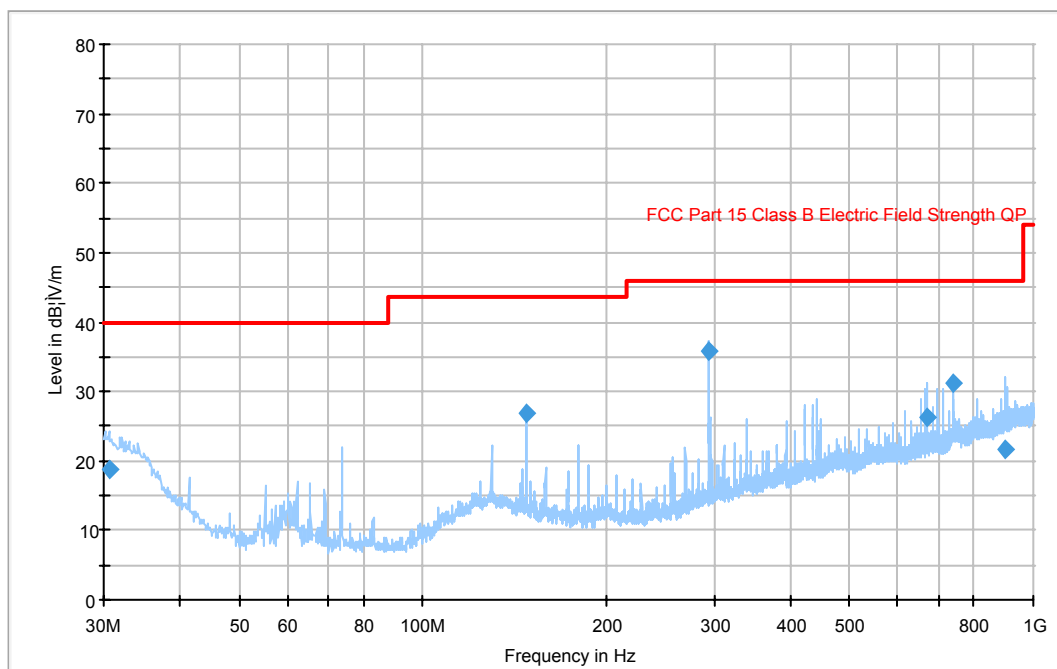
Test Mode: Handset: Transmitting Low Frequency (CH99)

Frequency	Meter Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier Gain	Corr. Ampl.	FCC Part 15.247		
MHz	dBuV/m	PK/QP/AV	Degree	Meter	H / V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	
1000 -25000MHz												
2480	102.67	PK	322	1.4	V	28.0	3.8	33.4	101.07			Fundamental
2480	56.0	AV	322	1.4	V	28.0	3.8	33.4	54.4			Fundamental
7440	61.17	PK	183	1.63	V	35.0	4.75	34.3	66.62	74	-7.38	Harmonic
7440	38.67	AV	183	1.63	V	35.0	4.75	34.3	44.12	54	-9.88	Harmonic
4960	56.83	PK	24	1.63	V	32.0	4.55	33.4	59.98	74	-14.02	Harmonic
4960	35.83	AV	24	1.63	V	32.0	4.55	33.4	38.98	54	-15.02	Harmonic
2480	107.67	PK	152	1.31	H	28.0	3.8	33.4	106.07			Fundamental
2480	56.67	AV	152	1.31	H	28.0	3.8	33.4	55.07			Fundamental
7440	58.5	PK	238	1.55	H	35.0	4.75	34.3	63.95	74	-10.05	Harmonic
7440	38.33	AV	238	1.55	H	35.0	4.75	34.3	43.78	54	-10.22	Harmonic
4960	60.5	PK	150	1.3	H	32.0	4.55	33.4	63.65	74	-10.35	Harmonic
4960	36.17	AV	150	1.3	H	32.0	4.55	33.4	39.32	54	-14.68	Harmonic

* Within measurement uncertainty.

Test Mode: Handset: Running (30MHz-1GHz)

Auto Test (FCC 15.247)



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity
30.593200	18.7	3000.000	120.000	284.0	H
147.451275	26.7	3000.000	120.000	100.0	V
294.938975	35.9	3000.000	120.000	177.0	V
670.485100	26.4	3000.000	120.000	100.0	V
737.310625	31.2	3000.000	120.000	153.0	V
901.255750	21.5	3000.000	120.000	206.0	H

(Continuation of the "Final Measurement Detector 1" table from column 6.)

Frequency (MHz)	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
30.593200	136.0	-3.0	21.3	40.0
147.451275	267.0	-13.2	16.8	43.5
294.938975	252.0	-11.0	10.1	46.0
670.485100	359.0	-3.9	19.6	46.0
737.310625	41.0	-2.8	14.8	46.0
901.255750	146.0	-0.2	24.5	46.0

§15.247(a)(1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2005-8-17	2006-8-17

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 100 kHz, maxhold the channel.
2. Set the adjacent channel of the EUT maxhold another truce
3. Measure the channel separation.

Limit

FCC Part 15, Subpart C Section 15.247(a)(1). Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB Bandwidth of the hopping channel, whichever is greater.

FREQUENCY RANGE (MHz)	Limit (kHz)
902-928	>25kHz or the 20dB bandwidth
2400-2483.5	>25kHz or two-thirds of the 20dB bandwidth
5725-5850	>25kHz or the 20dB bandwidth

Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	50 %
ATM Pressure:	1009 mbar

The testing was performed by Charmi Peng on 2006-6-12.

Test Result: Pass

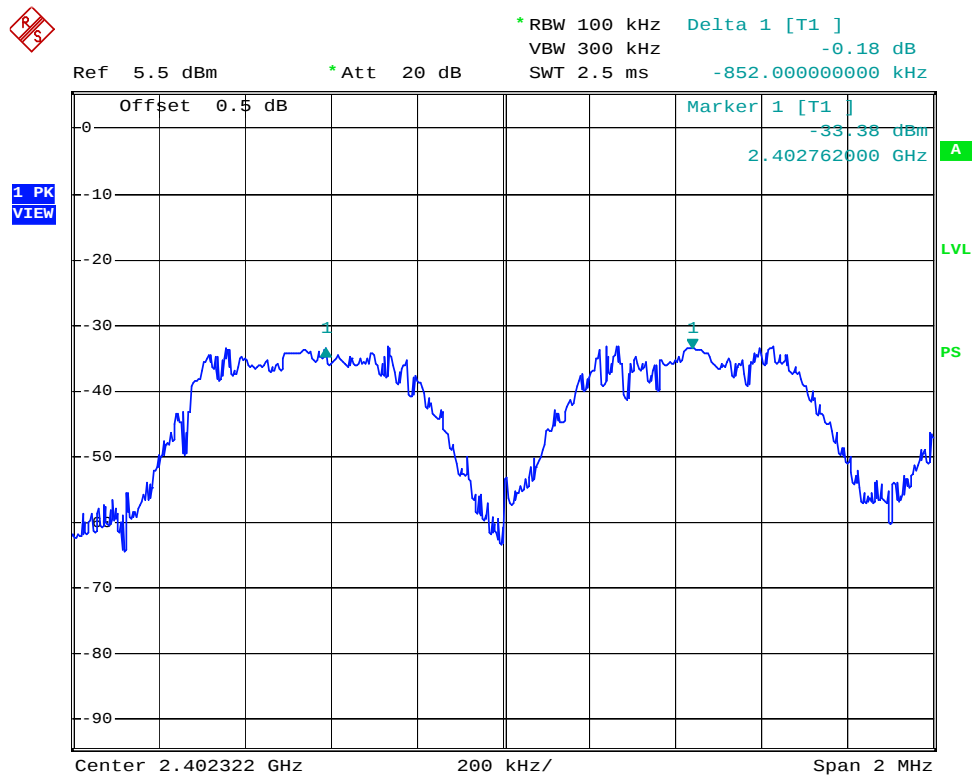
Test mode: Base (Transmitting)

Channel	Channel Frequency (MHz)	Channel Separation (KHz)	Limit (kHz)	Result
Low Channel	2402.322	852	20	Pass
Adjacency Channel	2401.470			
Mid Channel	2441.544	864	203	Pass
Adjacency Channel	2440.680			
High Channel	2479.918	916	205	Pass
Adjacency Channel	2479.002			

Test mode: Handset (Transmitting)

Channel	Channel Frequency (MHz)	Channel Separation (KHz)	Limit (kHz)	Result
Low Channel	2402.30	900	220	Pass
Adjacency Channel	2403.10			
Mid Channel	2442.46	896	231	Pass
Adjacency Channel	2441.56			
High Channel	2479.28	920	225	Pass

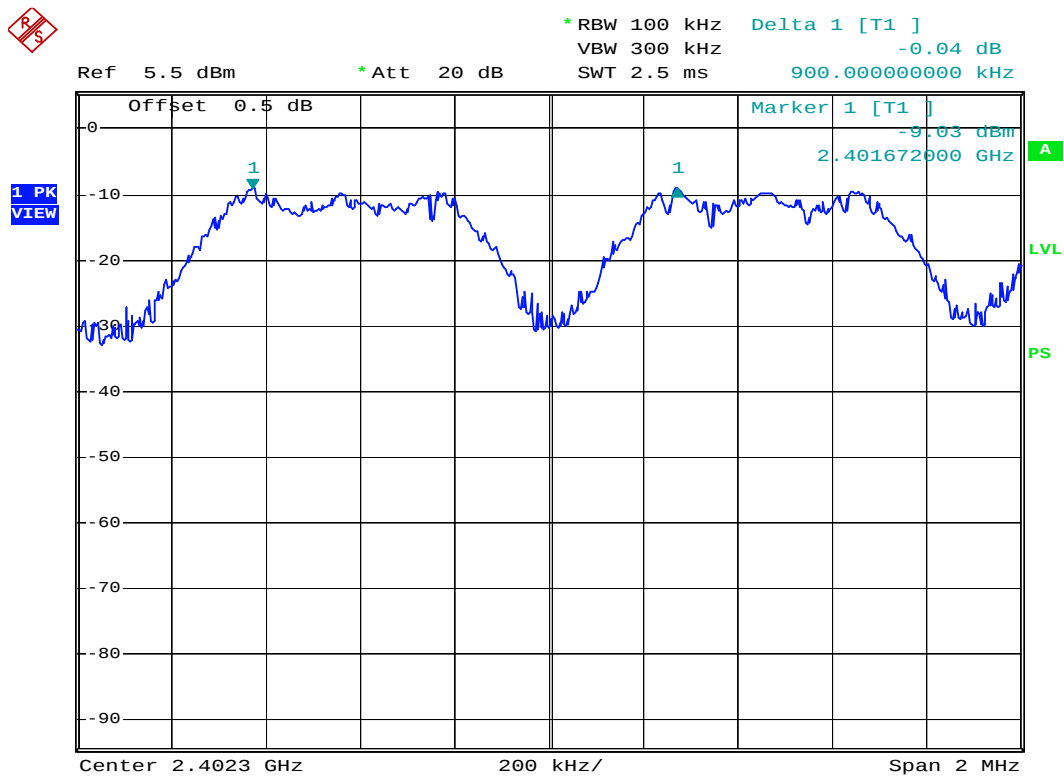
Low channel:



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Channel

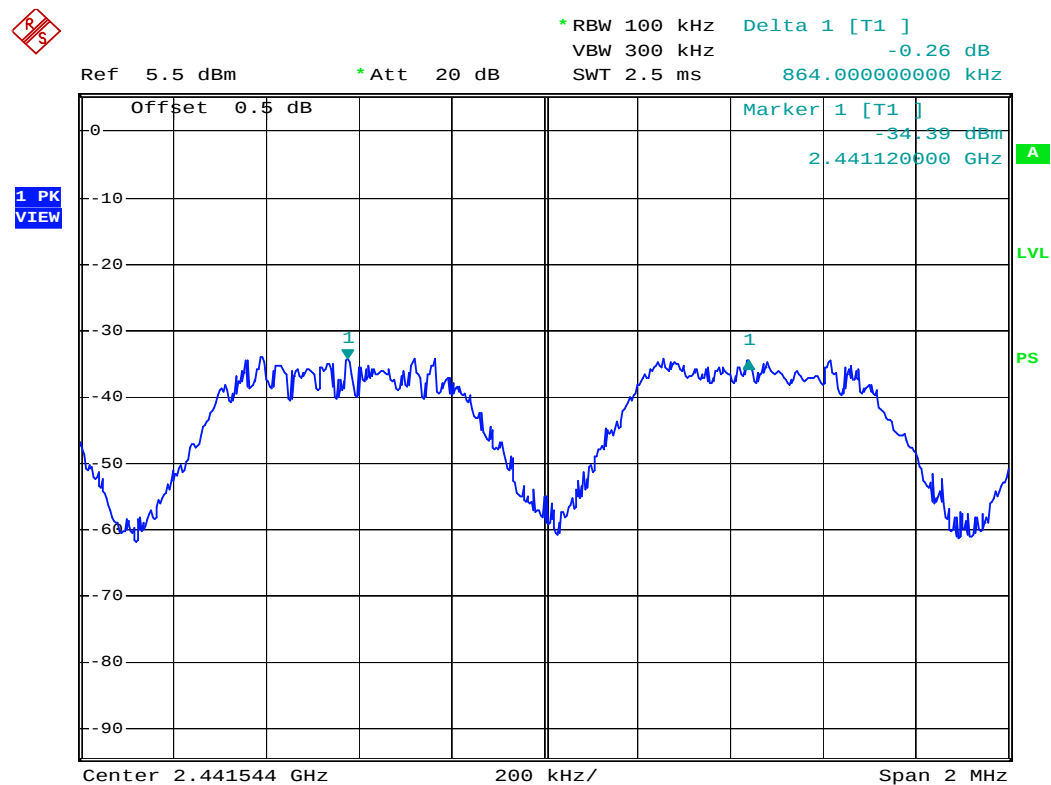
separation Base Low ch

Date: 12.JUN.2006 16:45:30

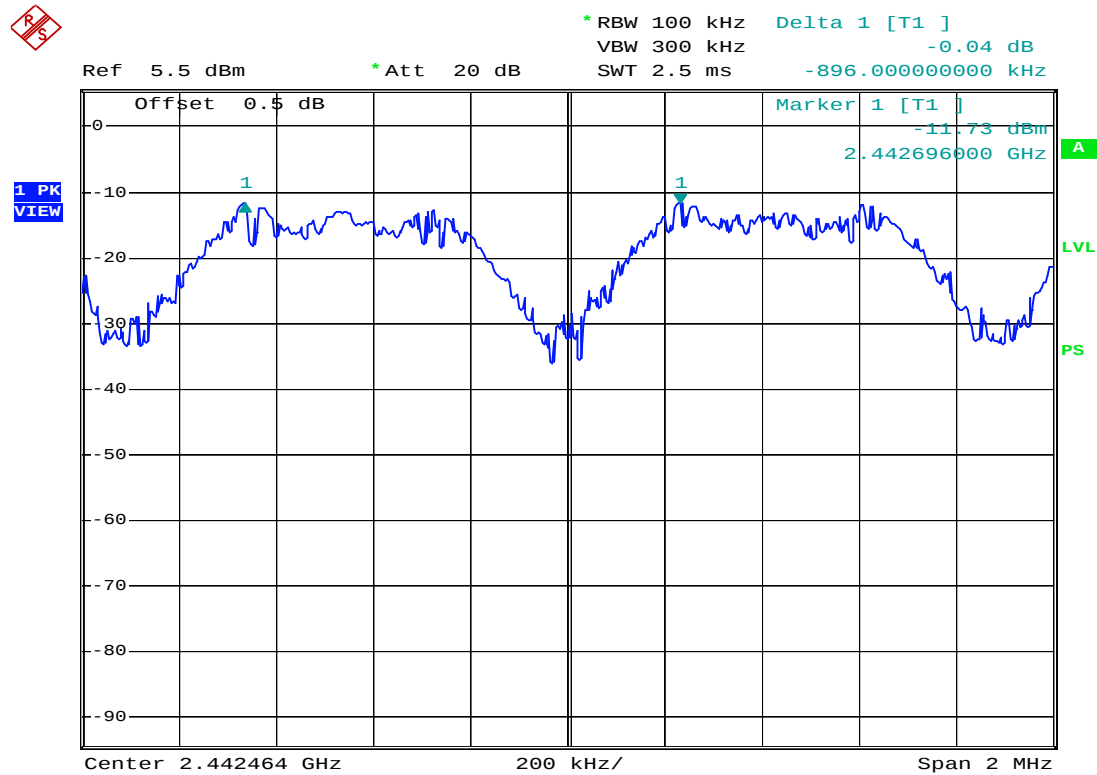


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Channel
separation Handset Low ch
Date: 12.JUN.2006 14:47:38

Middle channel

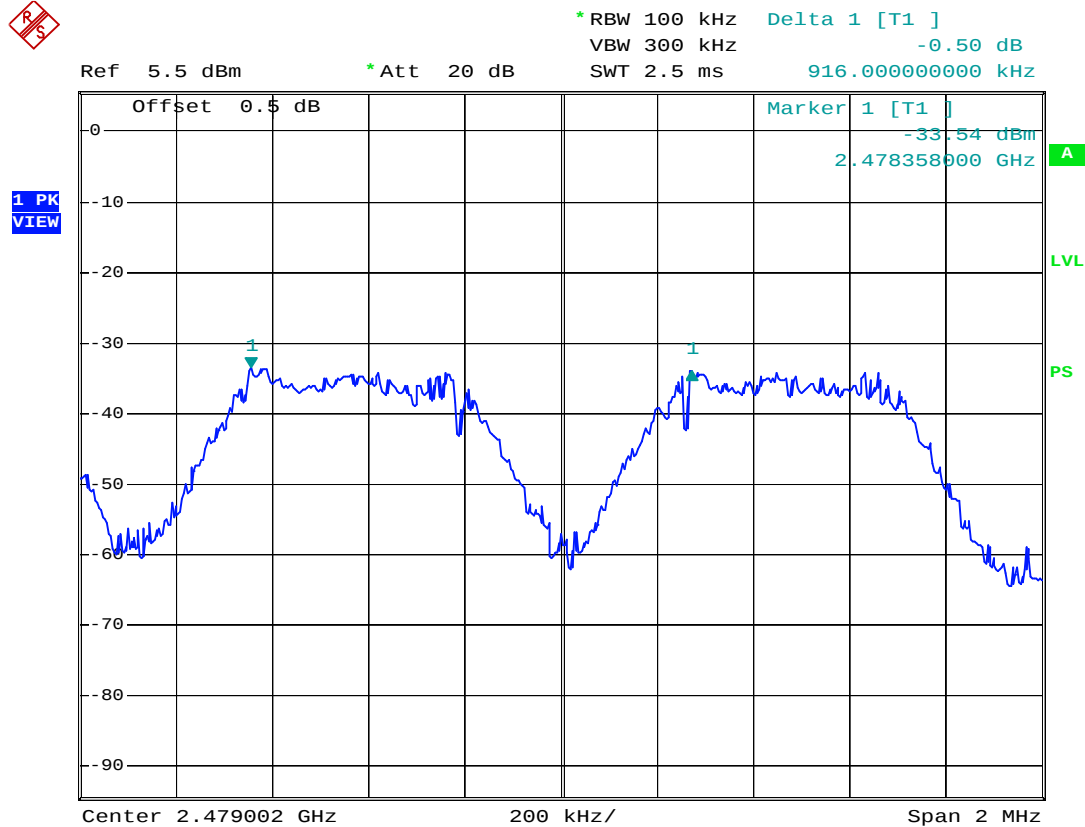


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Channel
separation Base Mid ch
Date: 12.JUN.2006 16:48:09

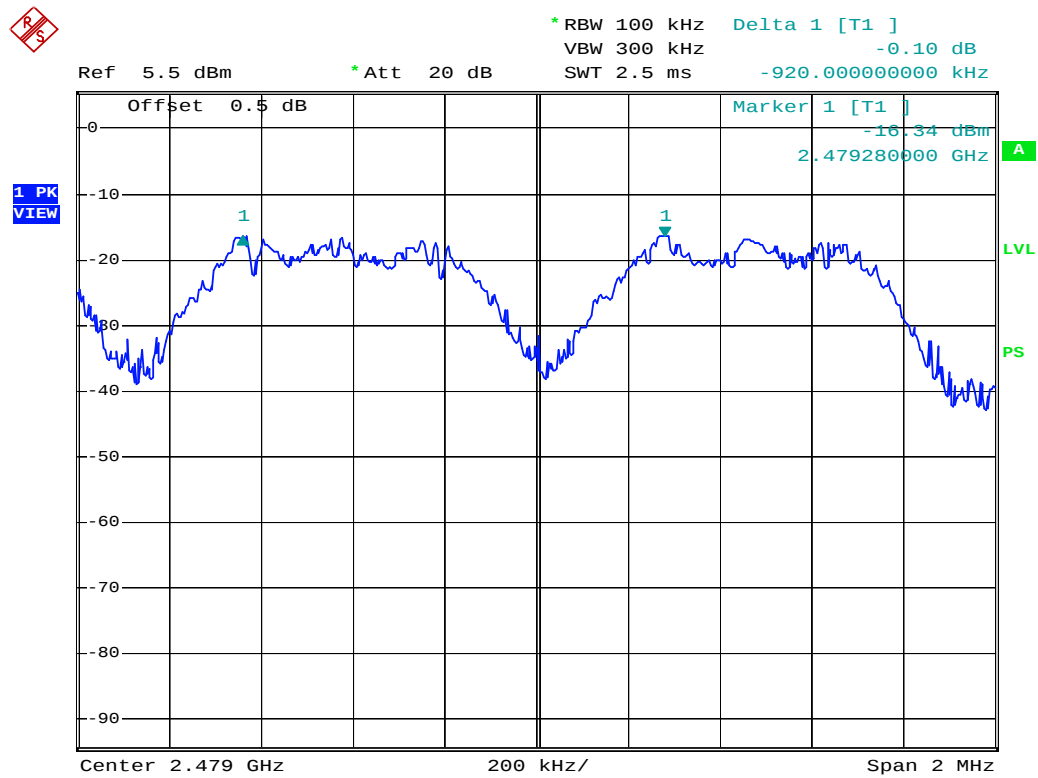


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Channel
separation Handset Mid ch
Date: 12.JUN.2006 14:49:43

High channel



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Channel
separation Base High ch
Date: 12.JUN.2006 16:50:35



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Channel
separation Handset High ch
Date: 12.JUN.2006 14:51:37

§15.247(a)(1) –20dB BANDWIDTH TESTING

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB Bandwidth of the hopping channel, whichever is greater.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	53%
ATM Pressure:	1009mbar

The testing was performed by Charmi Peng on 2006-5-17.

Test Mode: Base (Transmitting)

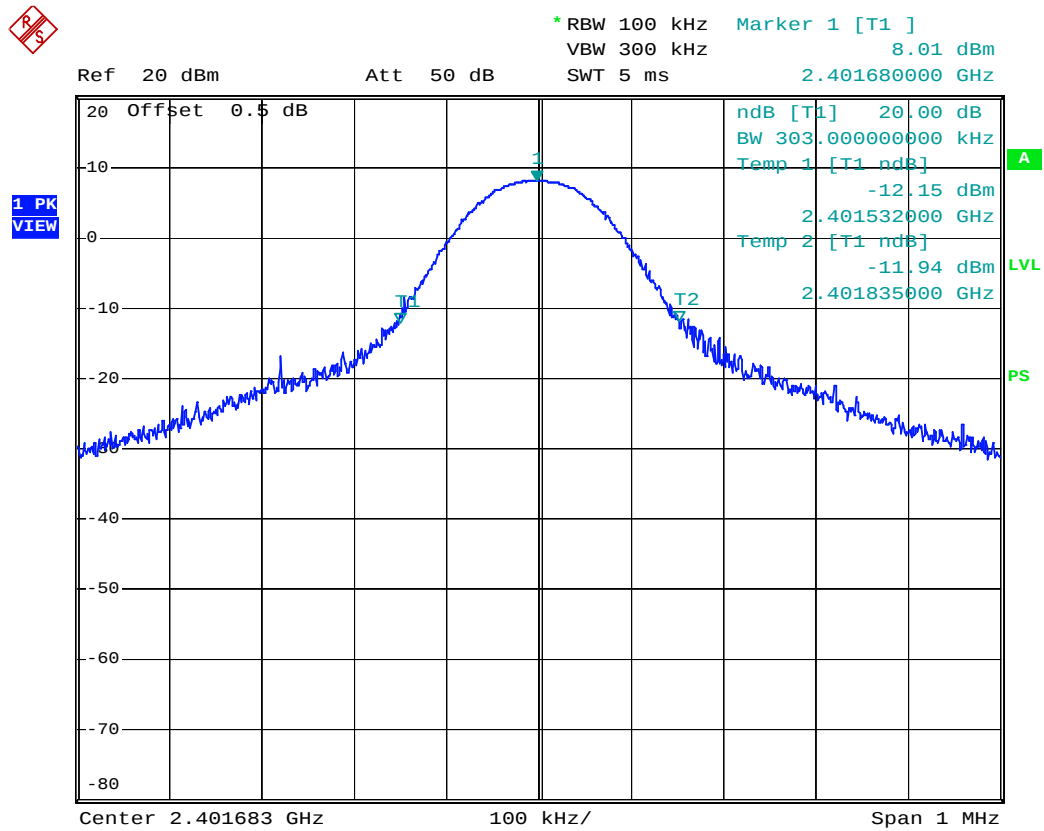
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Result
Low Channel	2401.68	303	Pass
Mid Channel	2440.03	305	Pass
High Channel	2479.27	307	Pass

Test Mode: Handset (Transmitting)

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Result
Low Channel	2401.76	338	Pass
Mid Channel	2440.91	330	Pass
High Channel	2479.25	346	Pass

Test Result: Pass

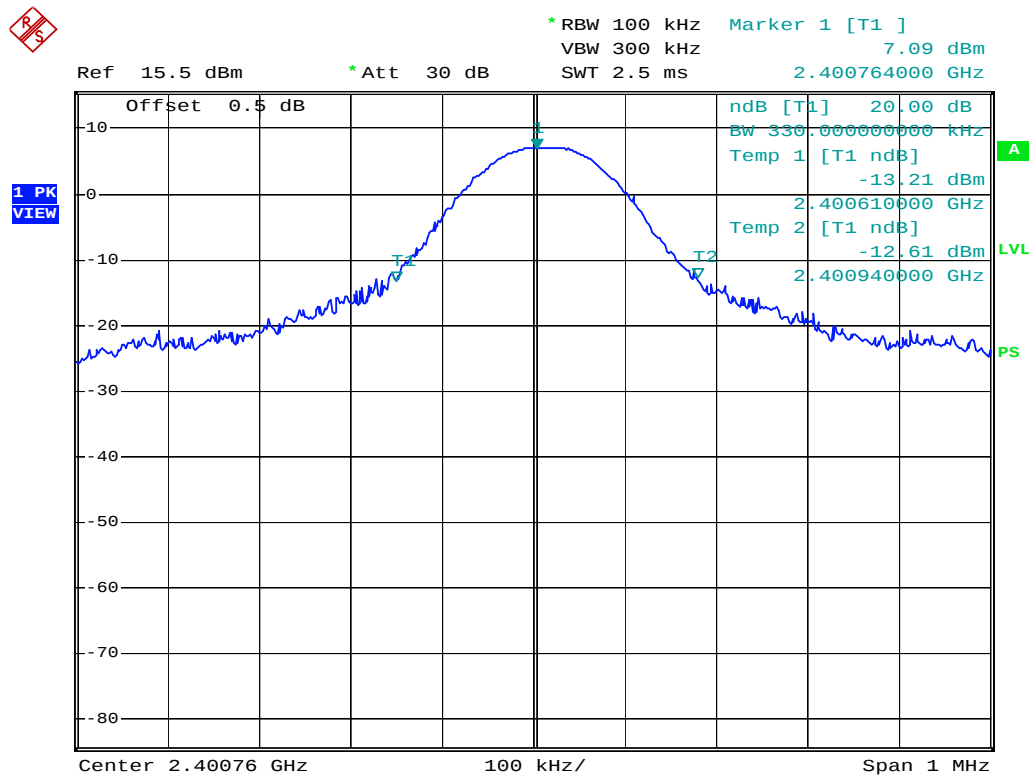
Low channel



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 20dB Ban

dwidth Base Low ch

Date: 17.MAY.2006 14:30:52

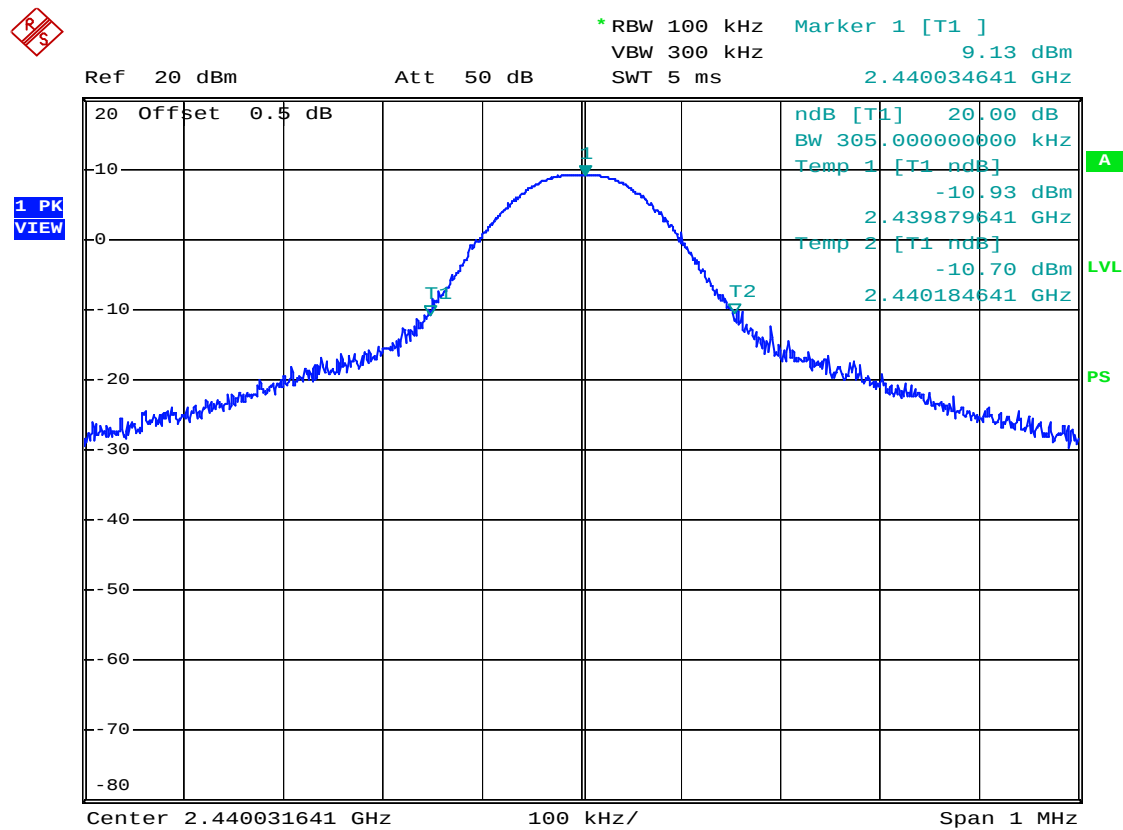


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 bandwidth

h Handset Low ch

Date: 12.JUN.2006 15:56:31

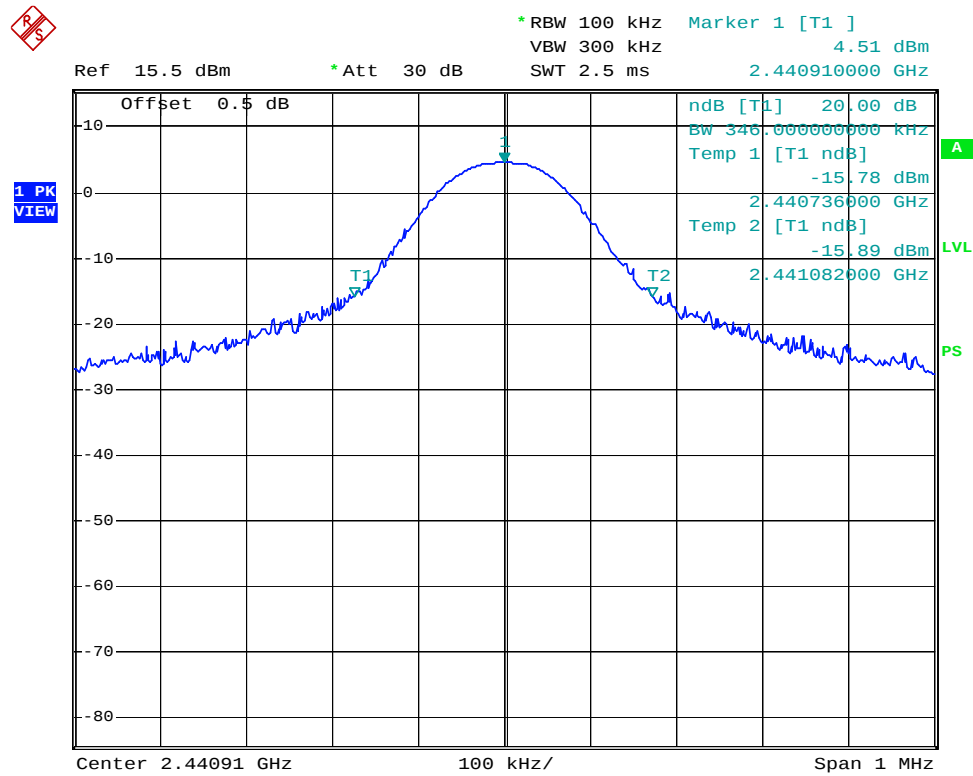
Middle channel



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 20dB Ban

dwidth Base Mid ch

Date: 17.MAY.2006 14:28:24

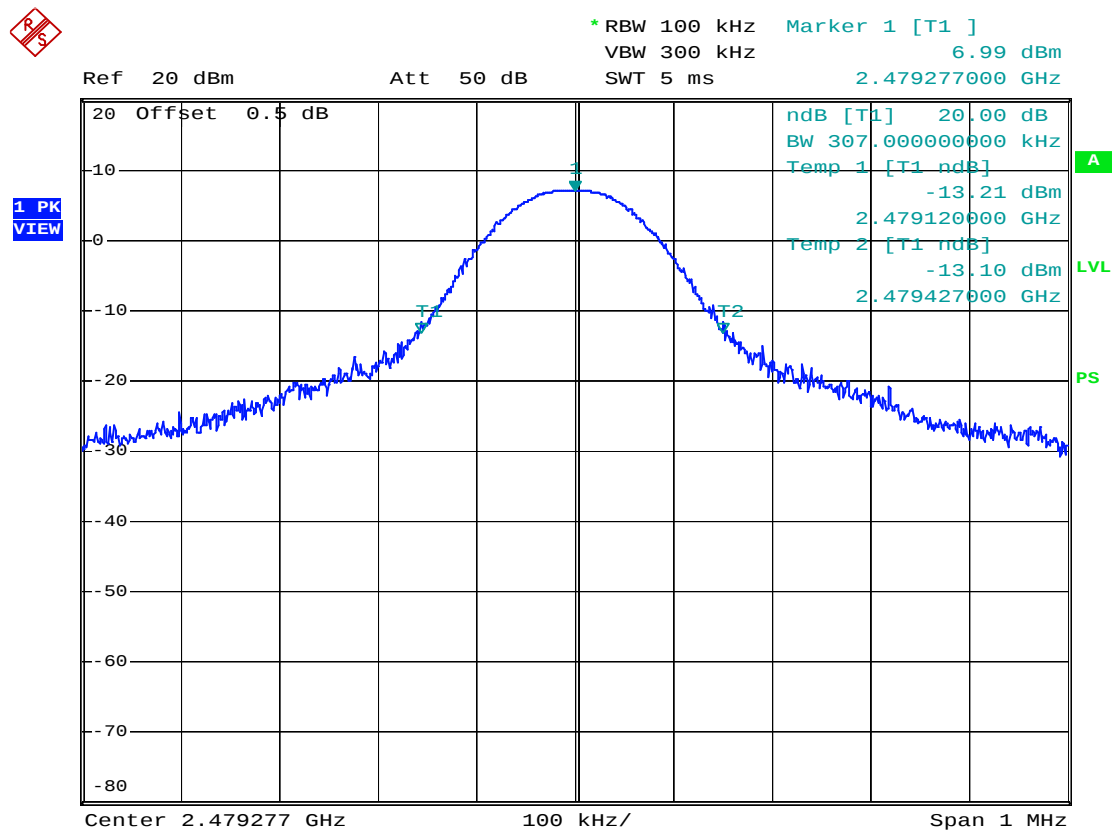


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 bandwidth

h Handset Mid ch

Date: 12.JUN.2006 16:00:13

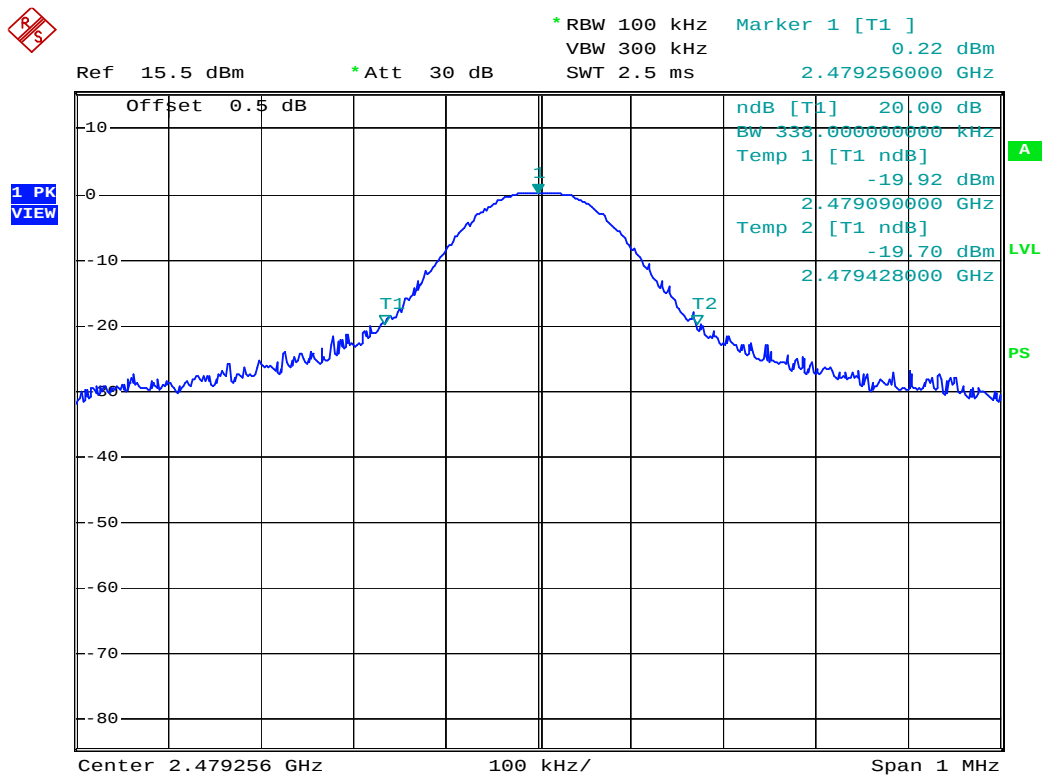
High channel



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 20dB Ban

dwidth Base High ch

Date: 17.MAY.2006 14:31:53



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 bandwidth

h Handset High ch

Date: 12.JUN.2006 16:01:34

§15.247(a)(1)(iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-9-15	2006-9-15

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in transmitting mode from first channel to last.
3. By using the Max-Hold function record the Quantity of the channel.

Limit

FCC Part 15, Subpart C Section 15.247

FREQUENCY RANGE (MHz)	Limit (Quantity of Hopping Channel)			
	20 dB bandwidth <250 kHz	20 dB bandwidth >250 kHz	20 dB bandwidth <1 MHz	20 dB bandwidth >1 MHz
902-928	50	25	N/A	N/A
2400-2483.5	N/A	N/A	≥15	≥15
5725-5850	N/A	N/A	N/A	N/A

Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	50 %
ATM Pressure:	1009 mbar

The testing was performed by Charmi Peng on 2006-6-12.

Test mode: Base (Transmitting)

The frequency hopping systems operating in 2.400~2.4835 GHz band employ 75 nonoverlapping channels.

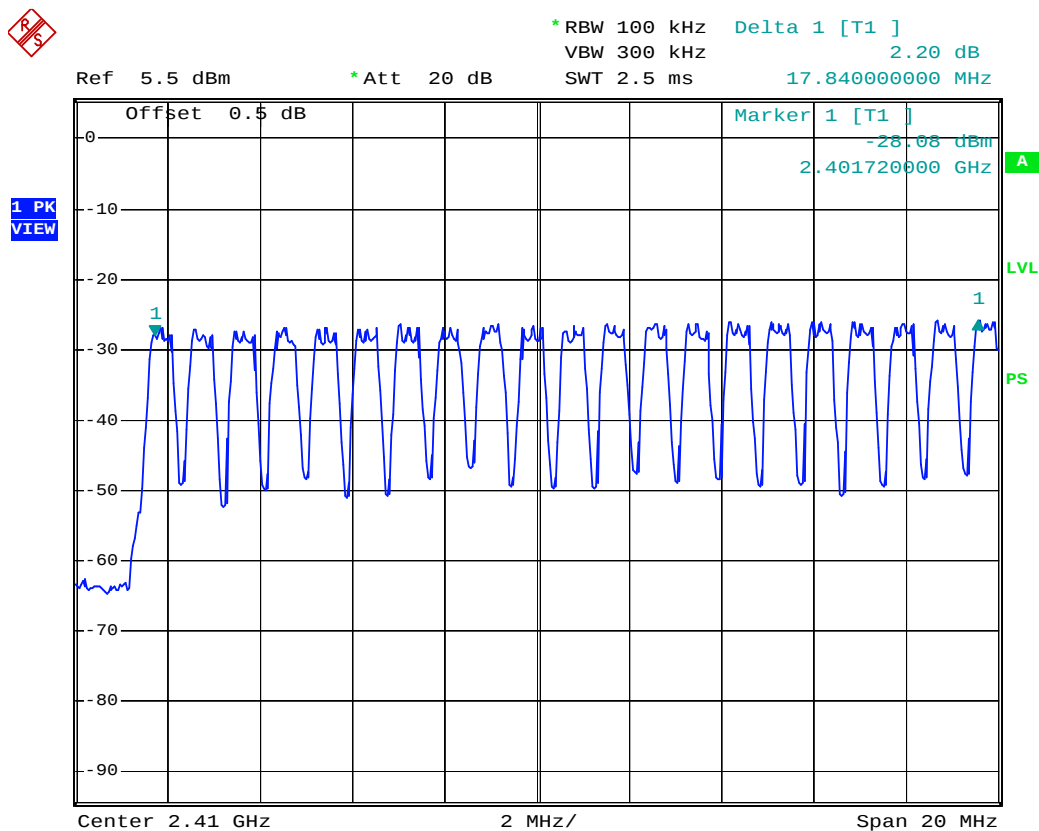
Hopping Channel Frequency Range (MHz)	Quantity OF hopping Channel Read Value (Channel)	Total (CH)	Limit (CH)
2400-2420	21	75	>15
2420-2440	22		
2440-2460	15		
2460-2483.5	17		

Test mode: Handset (Transmitting)

Hopping Channel Frequency Range (MHz)	Quantity OF hopping Channel Read Value (Channel)	Total (CH)	Limit (CH)
2400-2420	21	75	>15
2420-2440	22		
2440-2460	15		
2460-2483.5	17		

Test Result: Pass

(2400MHz-2420MHz)

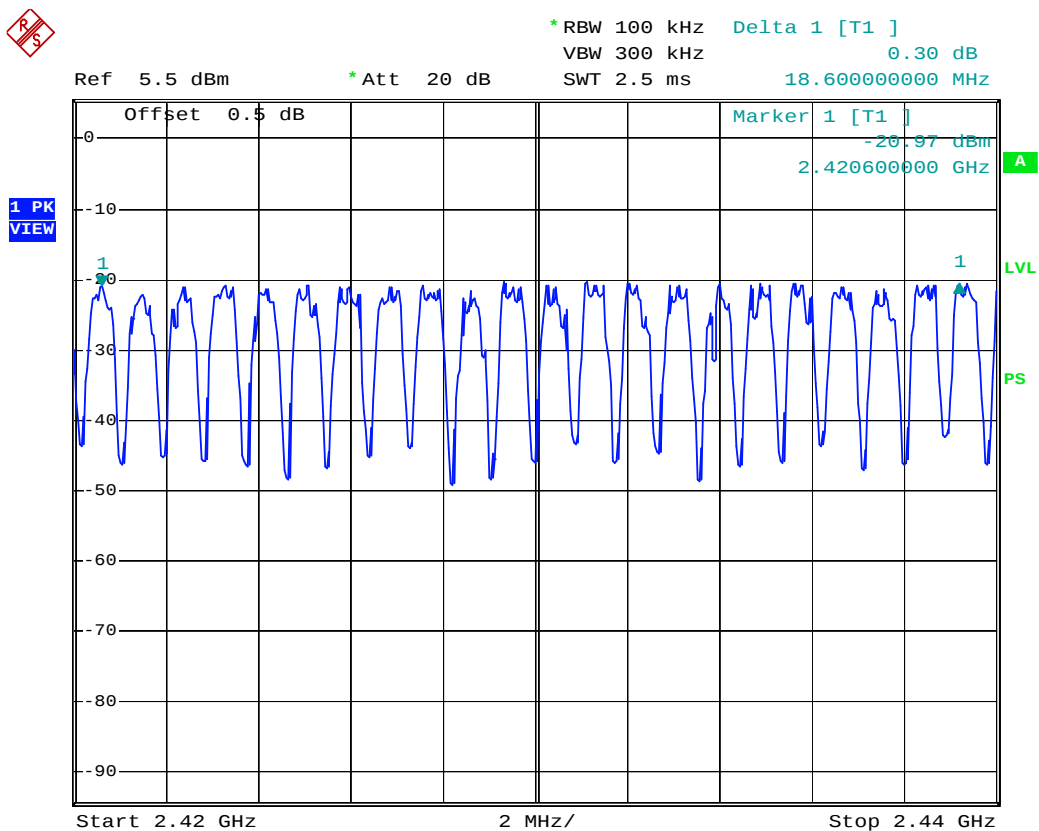


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of ch

annel Base (2400-2420)

Date: 12.JUN.2006 16:22:00

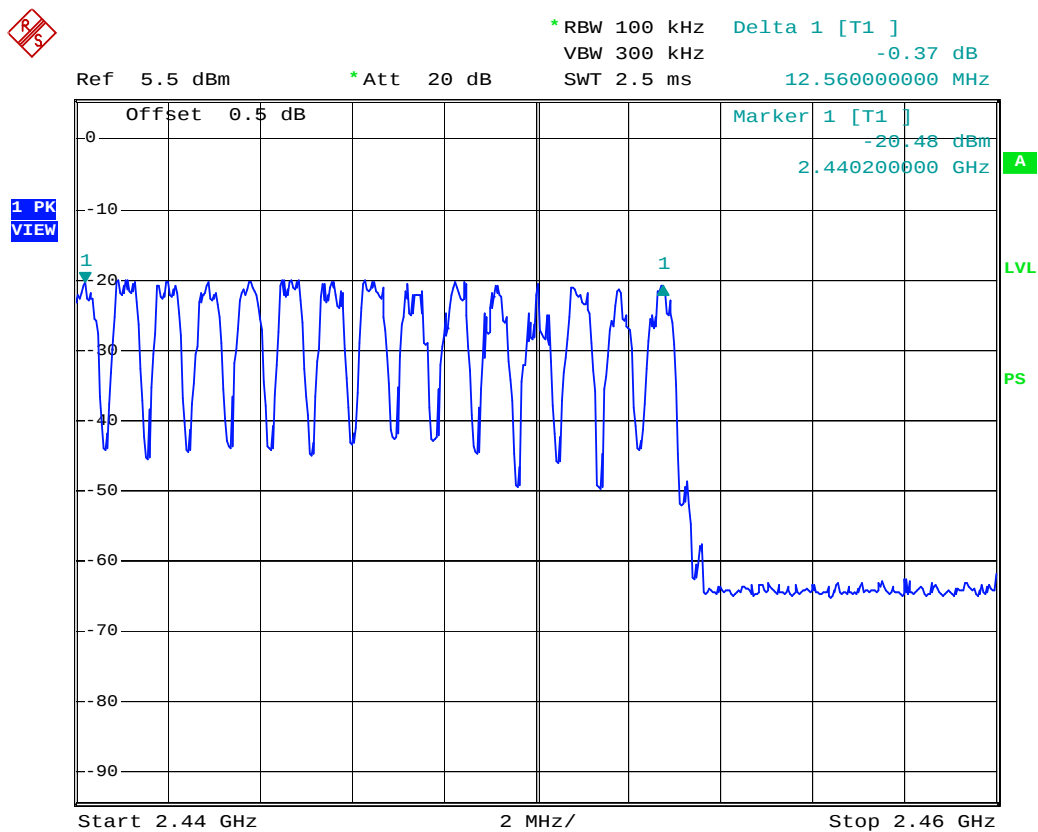
(2420MHz-2440MHz)



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of ch
annel Base (2420-2440)

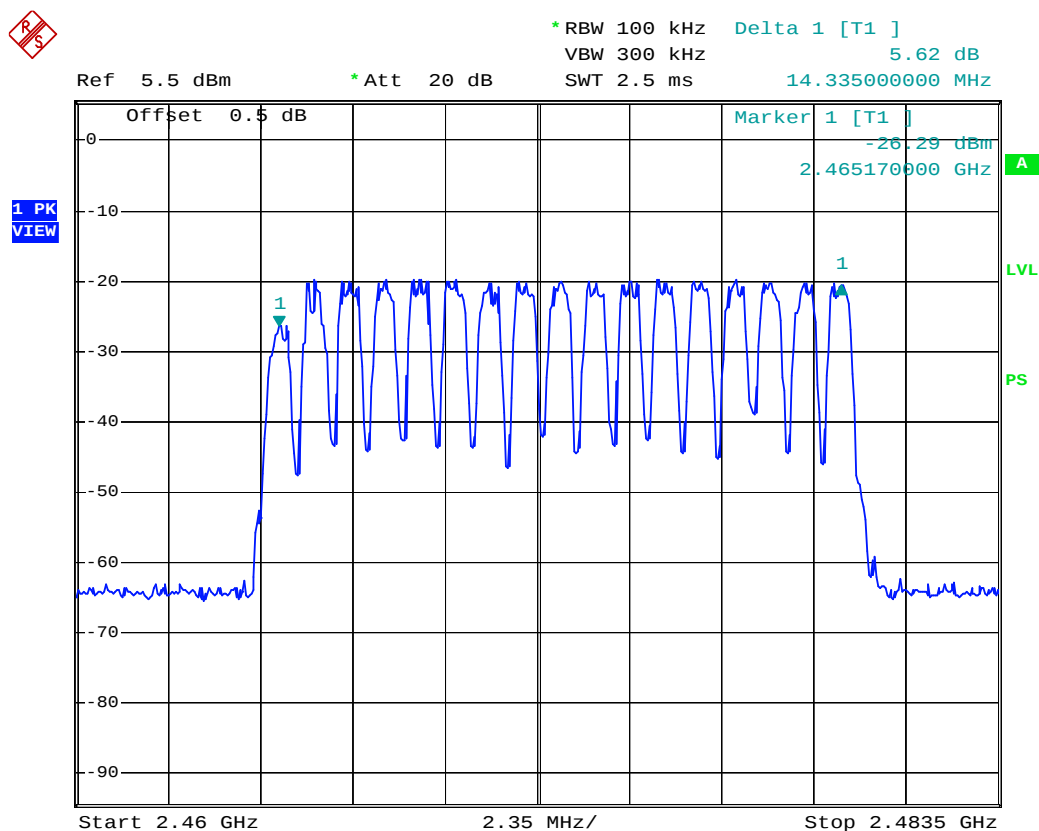
Date: 12.JUN.2006 16:24:43

(2440MHz-2460MHz)



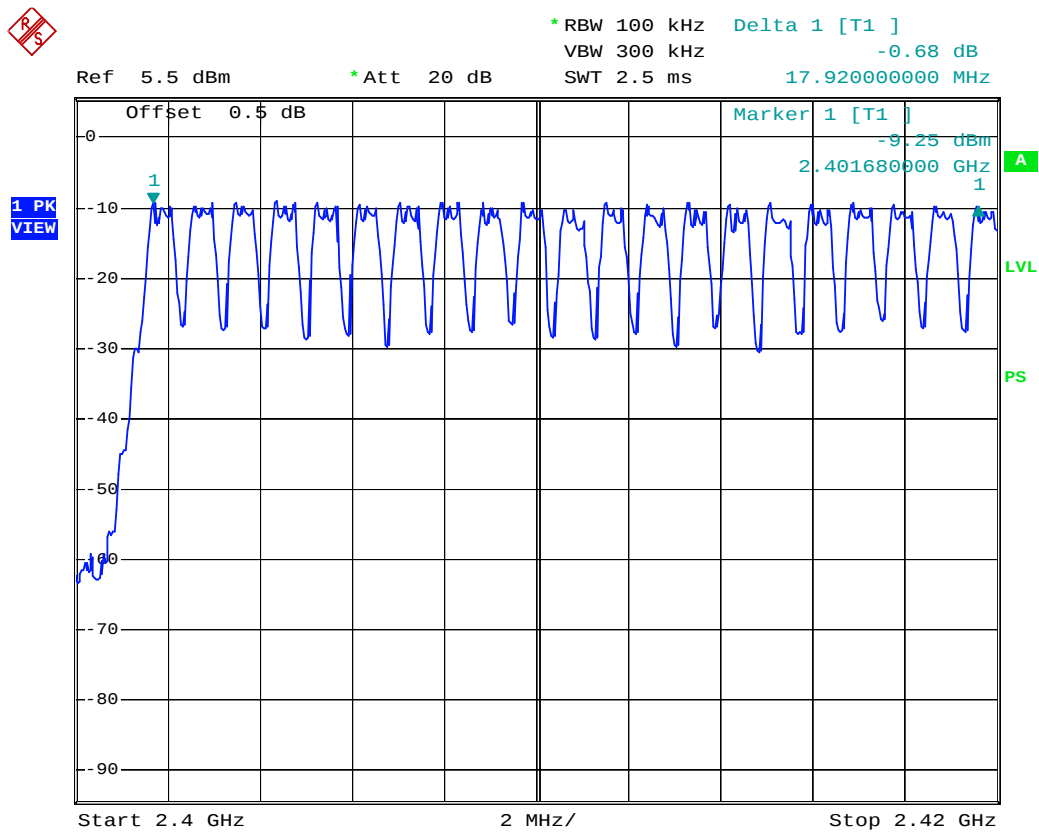
Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of ch
annel Base (2440-2460)
Date: 12.JUN.2006 16:27:00

(2460MHz-2483.5MHz)



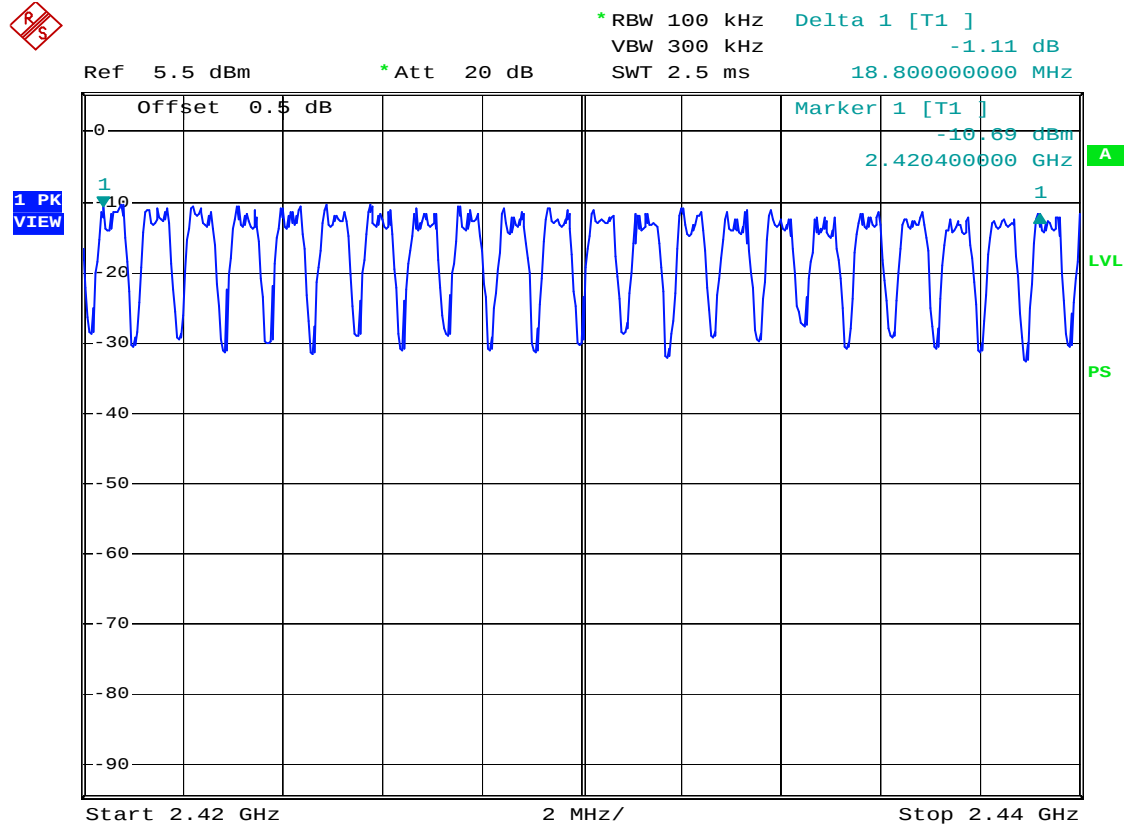
Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of ch
annel Base (2460-2483.5)
Date: 12.JUN.2006 16:29:34

(2400MHz-2420MHz)



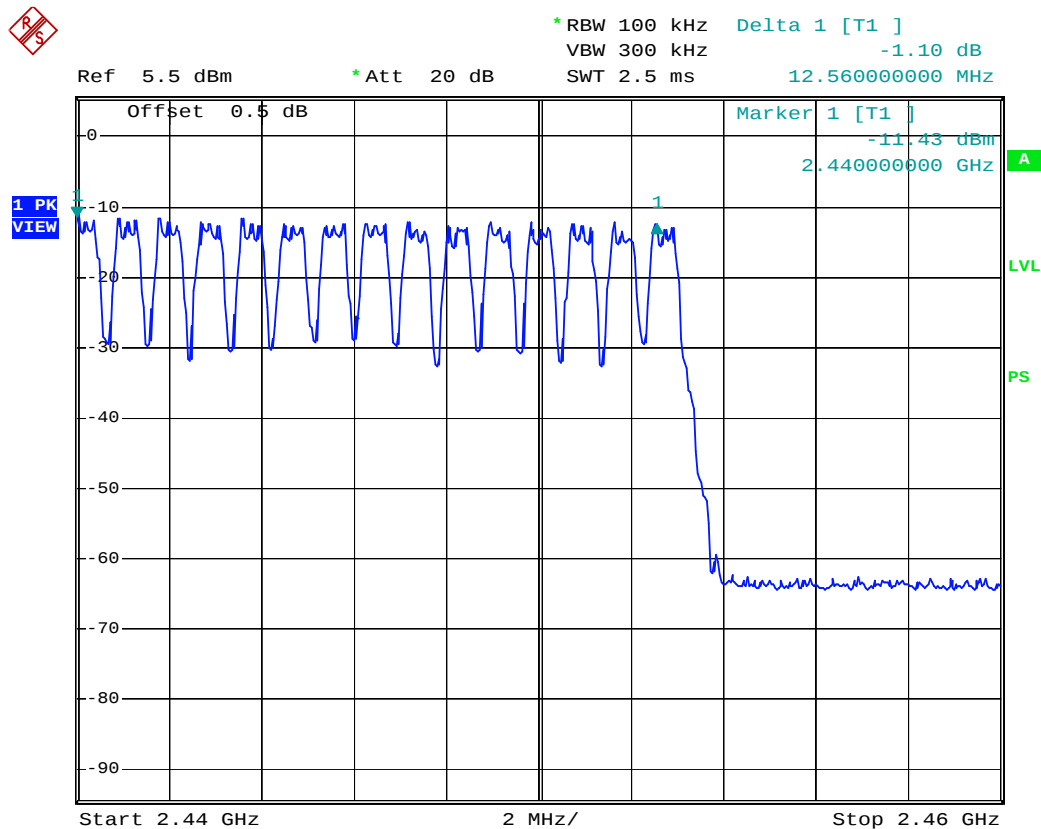
Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of Ch
annel Handset (2400-2420)
Date: 12.JUN.2006 15:08:47

(2420MHz-2440MHz)



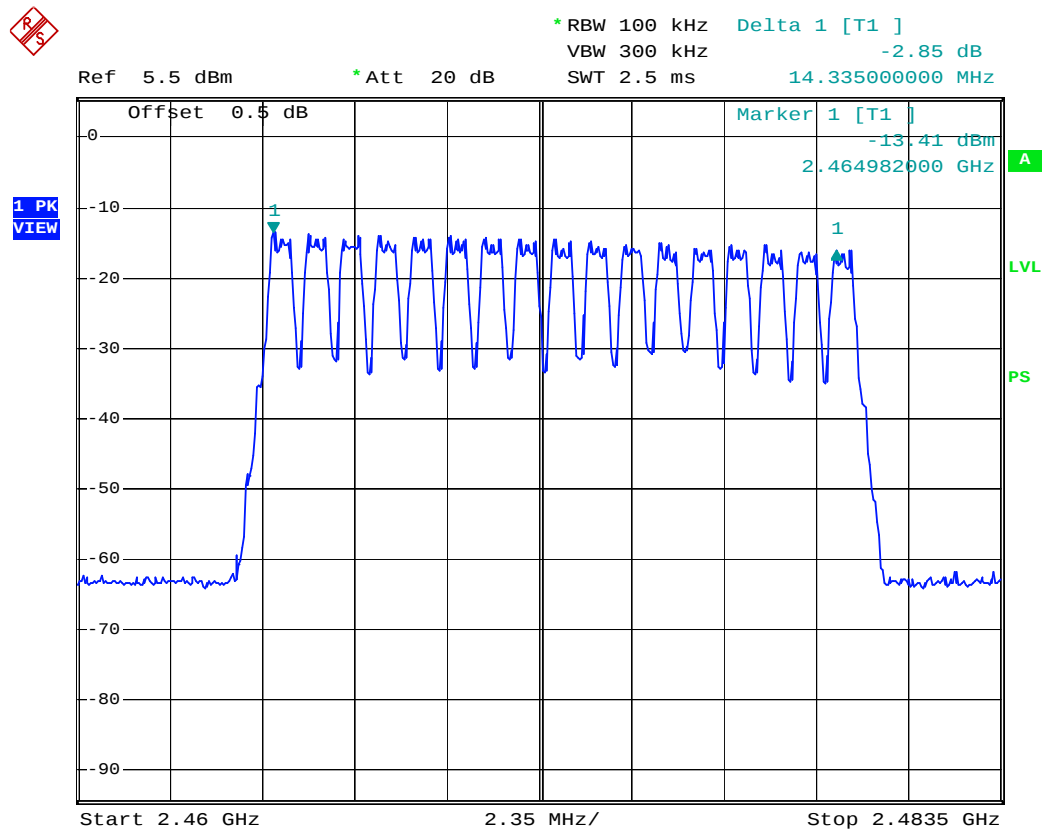
Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of Ch
annel Handset (2420-2440)
Date: 12.JUN.2006 15:13:30

(2440MHz-2460MHz)



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of Ch
annel Handset (2440-2460)
Date: 12.JUN.2006 15:18:18

(2460MHz-2483.5MHz)



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of Ch
annel Handset (2460-2483.5)
Date: 12.JUN.2006 15:30:21

§15.247(a)(1)(iii) -TIME OF OCCUPANCY (DWEELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 X channel no.(s), The quantity of False was get from single sweep. In addition, the time of single Pluses was tested.

Limit

FCC Part 15, Subpart C Section 15.247.

FREQUENCY RANGE (MHz)	LIMIT (ms)		
	20dB bandwidth <250kHz (50 Channel)	20dB bandwidth >250kHz (50 Channel)	20dB bandwidth <1 MHz (79 Channel)
902-928	N/A	N/A	N/A
2400-2483.5	N/A	N/A	31.6s
5725-5850	N/A	N/A	N/A

Dwell Time= time slot length * hope rate/ number of hopping channels * 31.6s

Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	50 %
ATM Pressure:	1009 mbar

The testing was performed by Charmi Peng on 2006-6-12.

Test mode: Base (Transmitting)

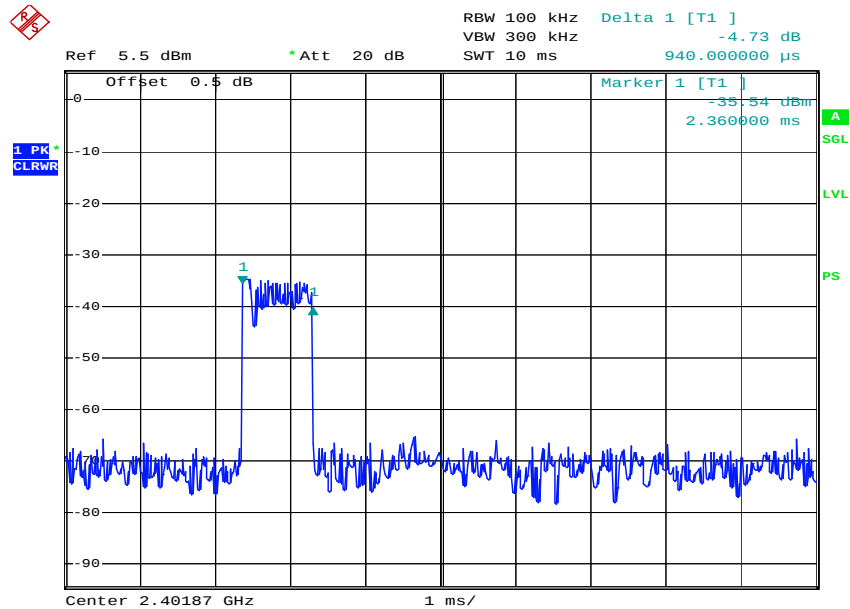
Channel	Pulse wide (msec)	Number of hopping Pluses in 0.4*channel number	Dwell time (sec)	Limit (sec)	Result
Low Channel	0.94	120	0.1128	0.4	Pass
Mid Channel	0.96	90	0.0864	0.4	Pass
High Channel	0.96	60	0.0576	0.4	Pass

Test mode: Handset (Transmitting)

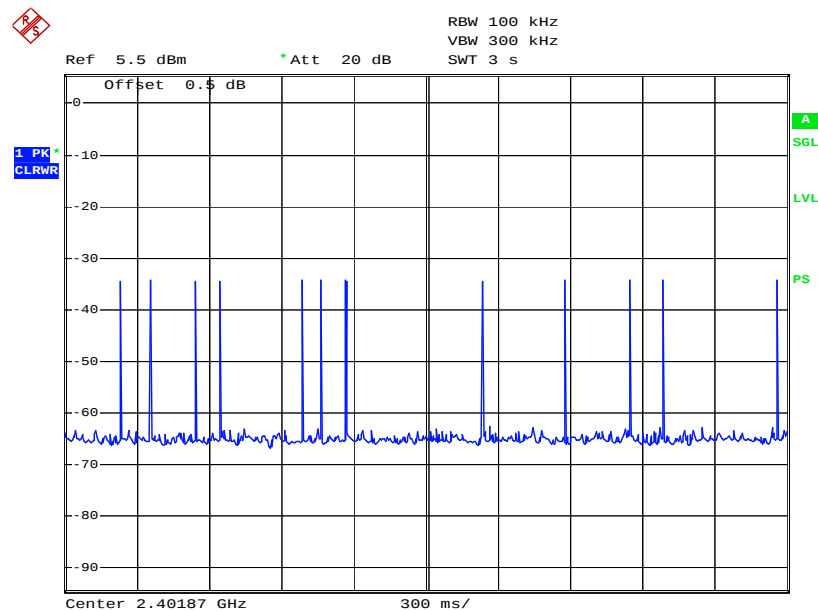
Channel	Pulse wide (msec)	Number of hopping Pluses in 0.4*channel number	Dwell time (sec)	Limit (sec)	Result
Low Channel	0.96	70	0.0672	0.4	Pass
Mid Channel	0.96	60	0.0576	0.4	Pass
High Channel	0.96	90	0.0864	0.4	Pass

Test Result: Pass

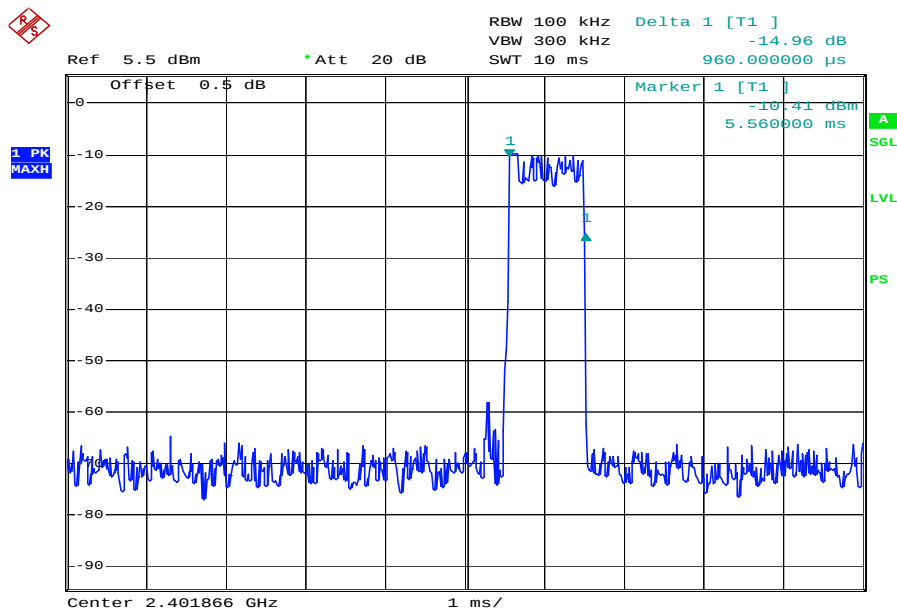
Low channel



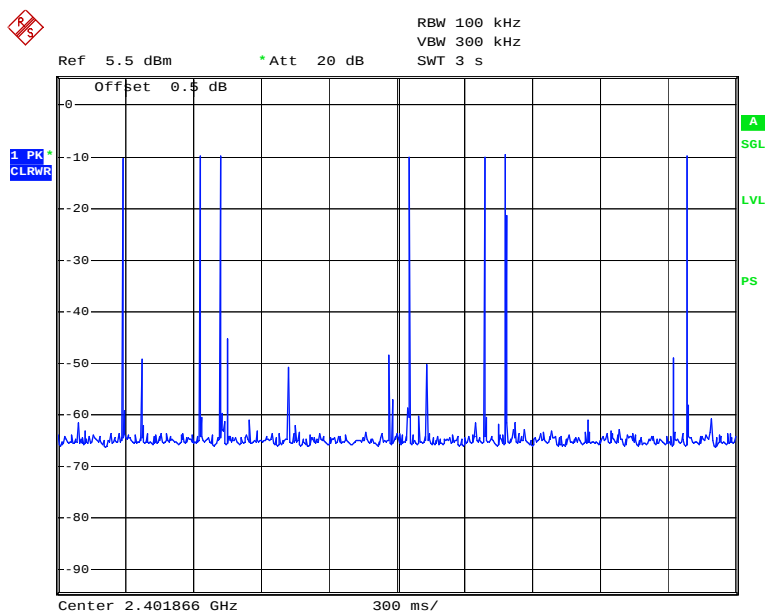
Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 pulse w
idth Base Low ch
Date: 12.JUN.2006 16:41:06



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of p
ulse Base Low ch
Date: 12.JUN.2006 16:41:48

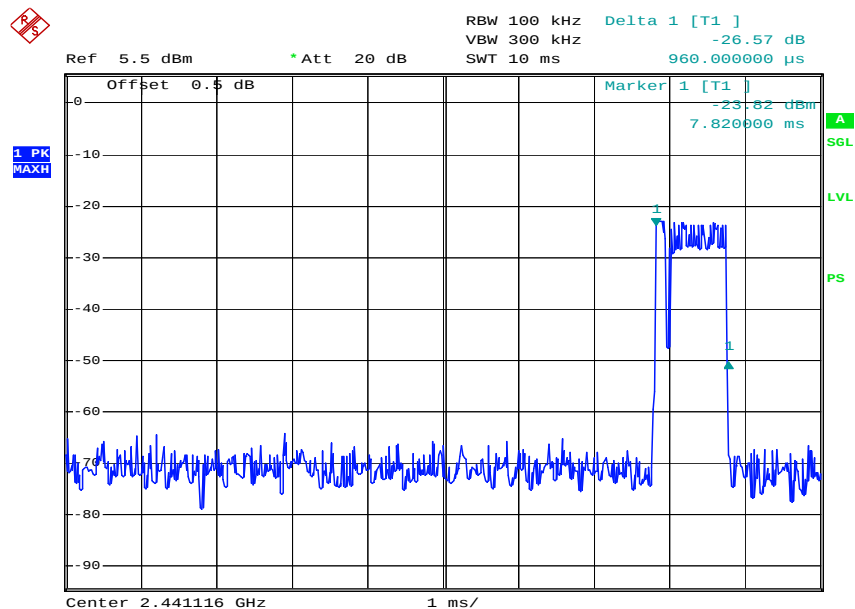


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Pulse w
idth Handset Low ch
Date: 12.JUN.2006 15:46:58

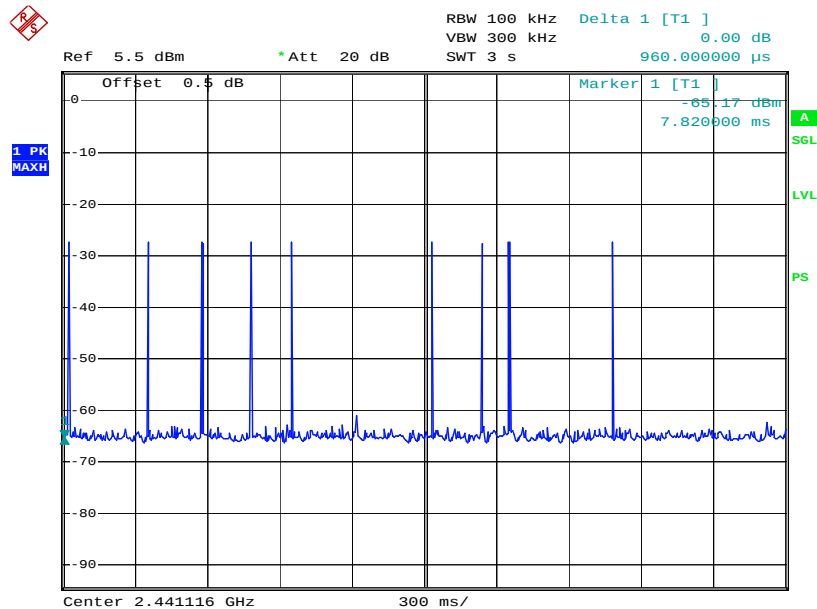


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of
Pulse Handset Low ch
Date: 12.JUN.2006 15:48:02

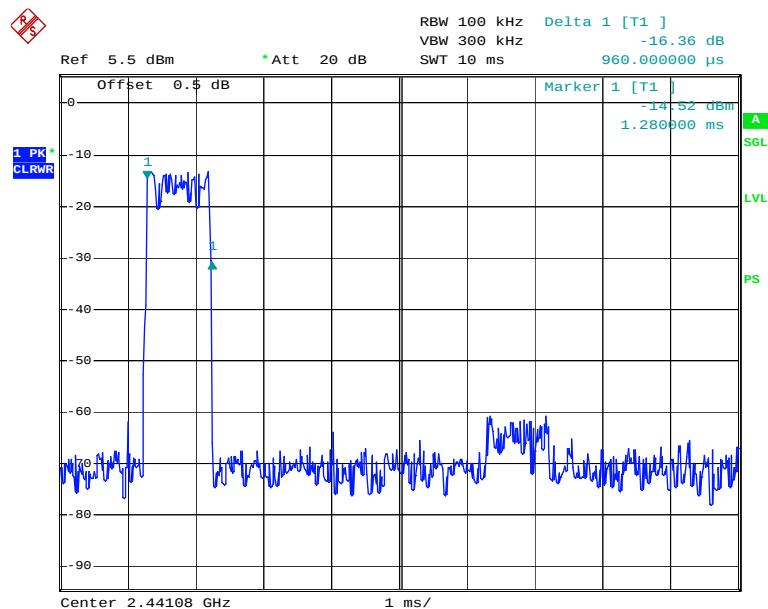
Middle channel



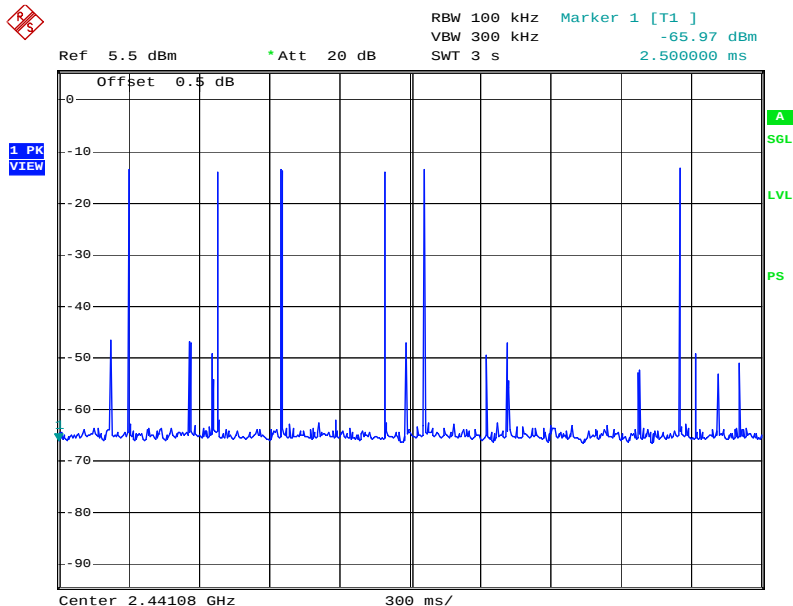
Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 pulse wi
dth Base Mid ch
Date: 12.JUN.2006 16:35:01



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of pu
lse Base Mid ch
Date: 12.JUN.2006 16:36:21

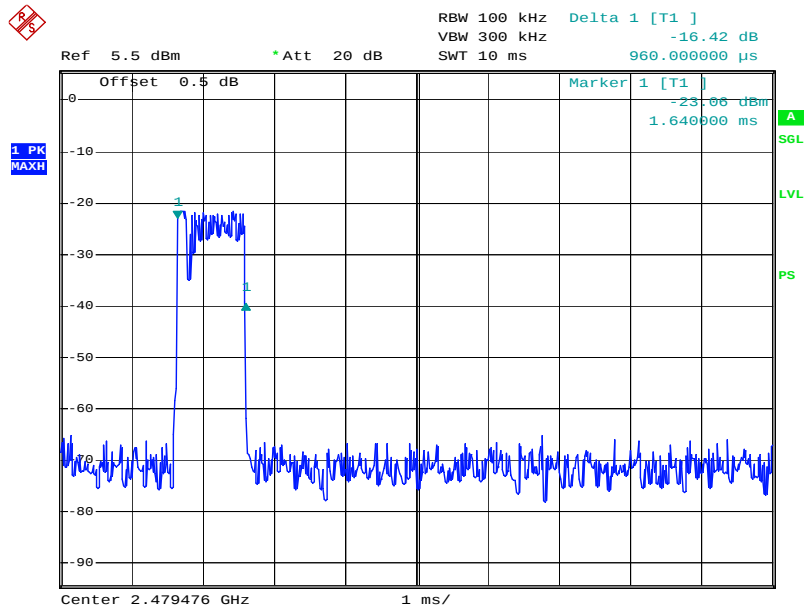


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Pulse w
idth Handset Mid ch
Date: 12.JUN.2006 15:43:02

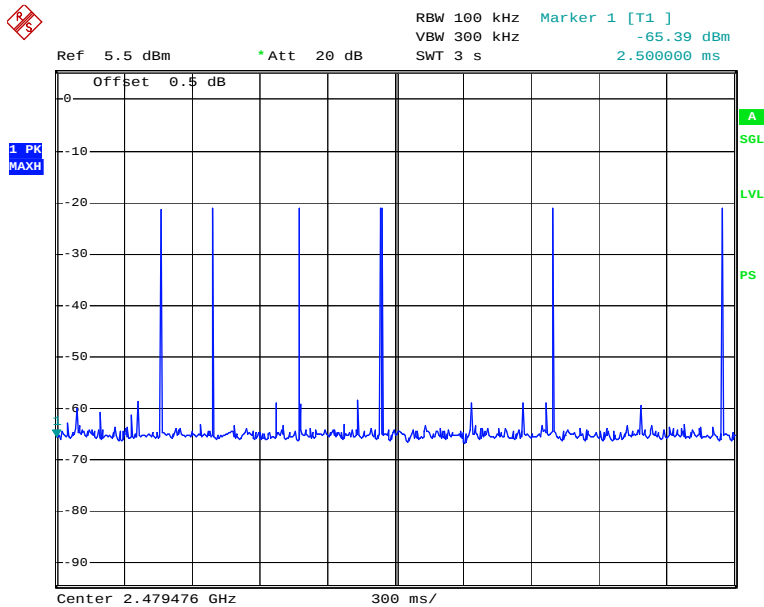


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of P
ulse Handset Mid ch
Date: 12.JUN.2006 15:41:51

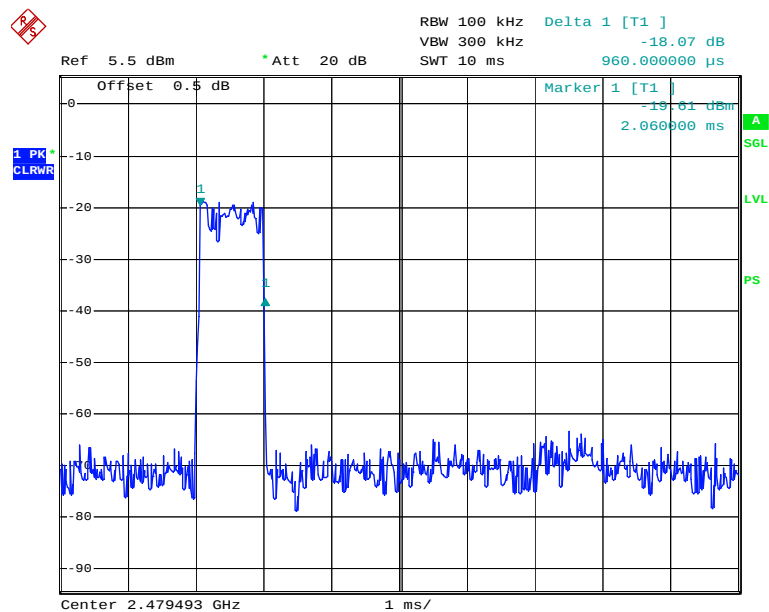
High channel



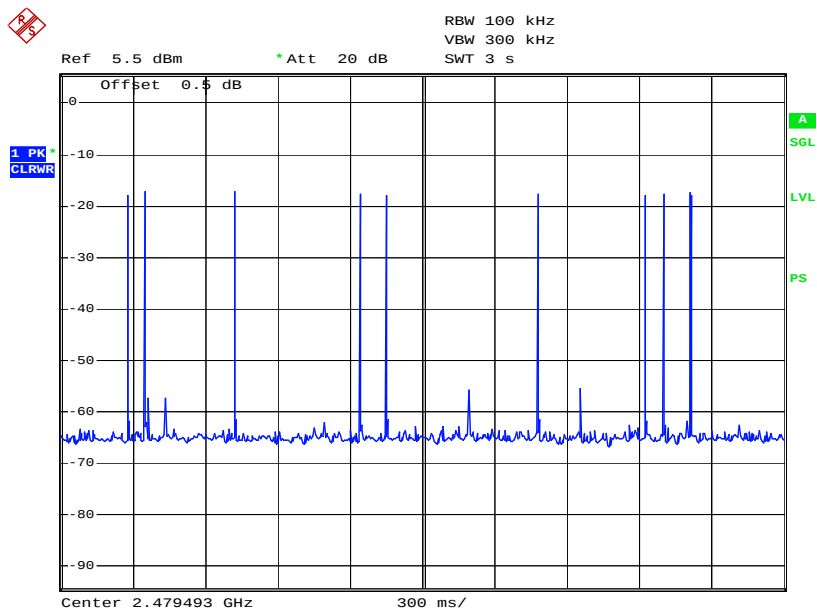
Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 pulse wi
dth Base High ch
Date: 12.JUN.2006 16:33:00



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of pu
lse Base High ch
Date: 12.JUN.2006 16:31:16



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 Pulse w
idth Handset High ch
Date: 12.JUN.2006 15:38:56



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 No.of Pu
lse Handset High ch
Date: 12.JUN.2006 15:36:48

§15.247(b)(1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

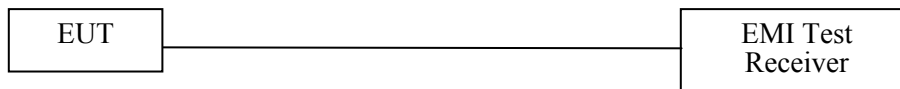
Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a EMI Test Receiver.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	53%
ATM Pressure:	1009mbar

The testing was performed by Charmi Peng on 2006-5-17.

Test mode: Base (Transmitting)

Please refer to the following plots.

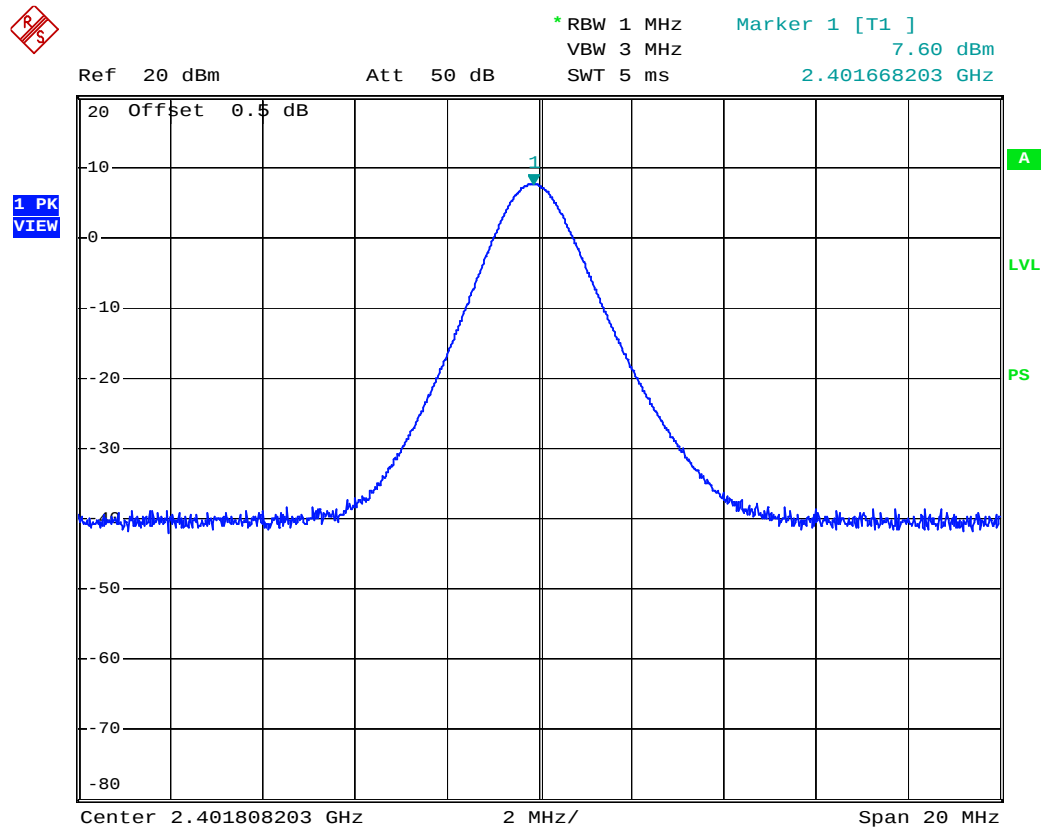
Channel	Channel Frequency (MHz)	Reading Power (dBm)	Cable Loss (dB)	Power Output		Limit (w)
				(dBm)	(w)	
Low Channel	2401.8	7.60	0	7.60	0.00575	1
Mid Channel	2440.1	9.02	0	9.02	0.00798	1
High Channel	2479.3	7.07	0	7.07	0.00509	1

Test mode: Handset (Transmitting)

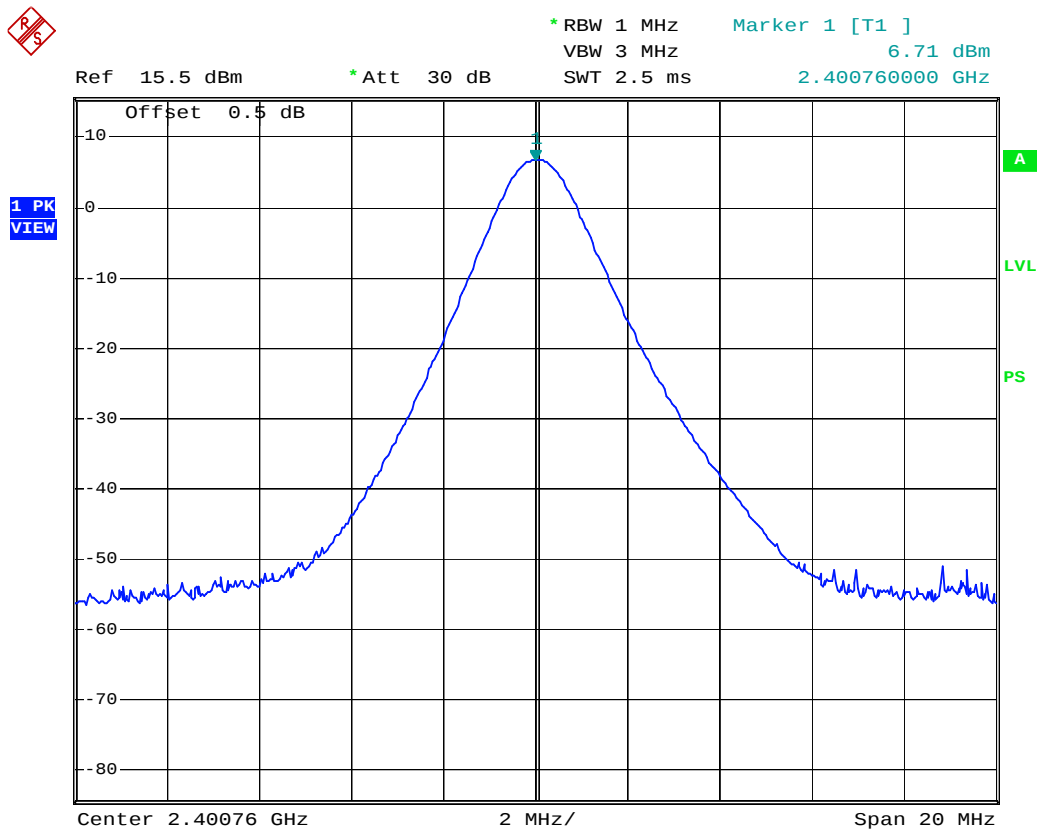
Channel	Channel Frequency (MHz)	Reading Power (dBm)	Cable Loss (dB)	Power Output		Limit (w)
				(dBm)	(w)	
Low Channel	2400.8	6.71	0	6.71	0.00469	1
Mid Channel	2441.0	4.82	0	4.82	0.00303	1
High Channel	2479.3	0.04	0	0.04	0.00101	1

Test Result: Pass

Low channel



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 RF Output
t power Base Low ch
Date: 17.MAY.2006 14:13:48

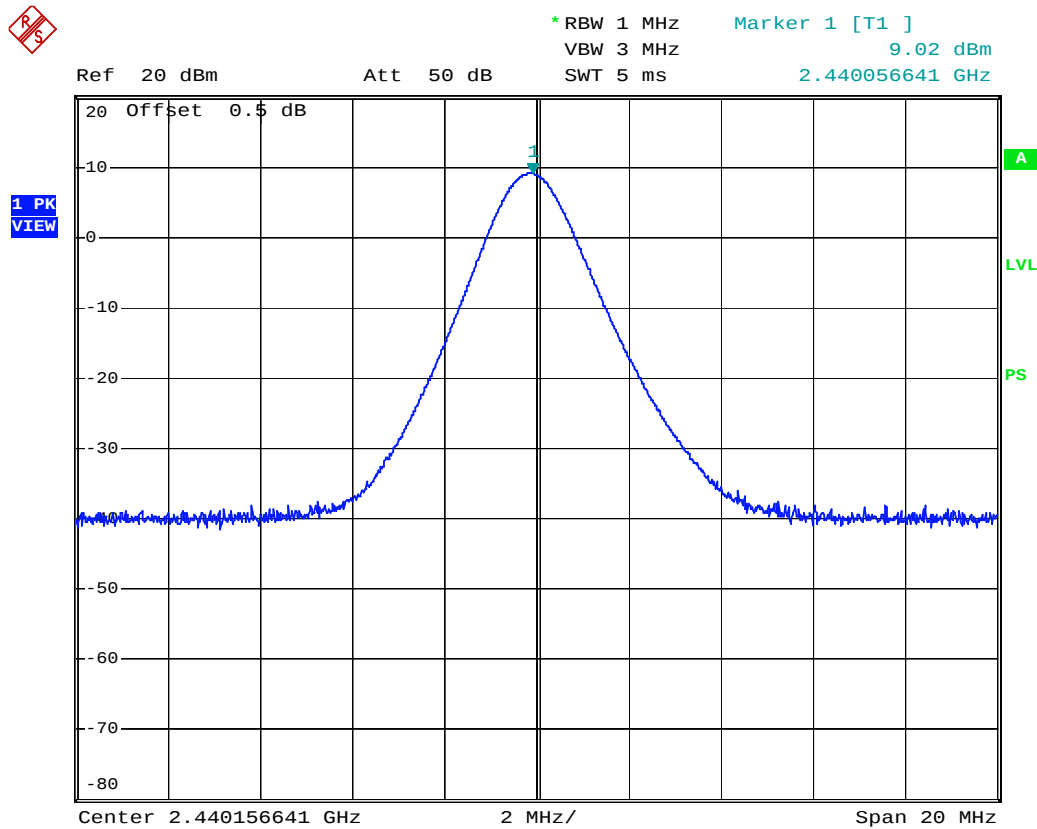


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 RF Output

t power Handset Low ch

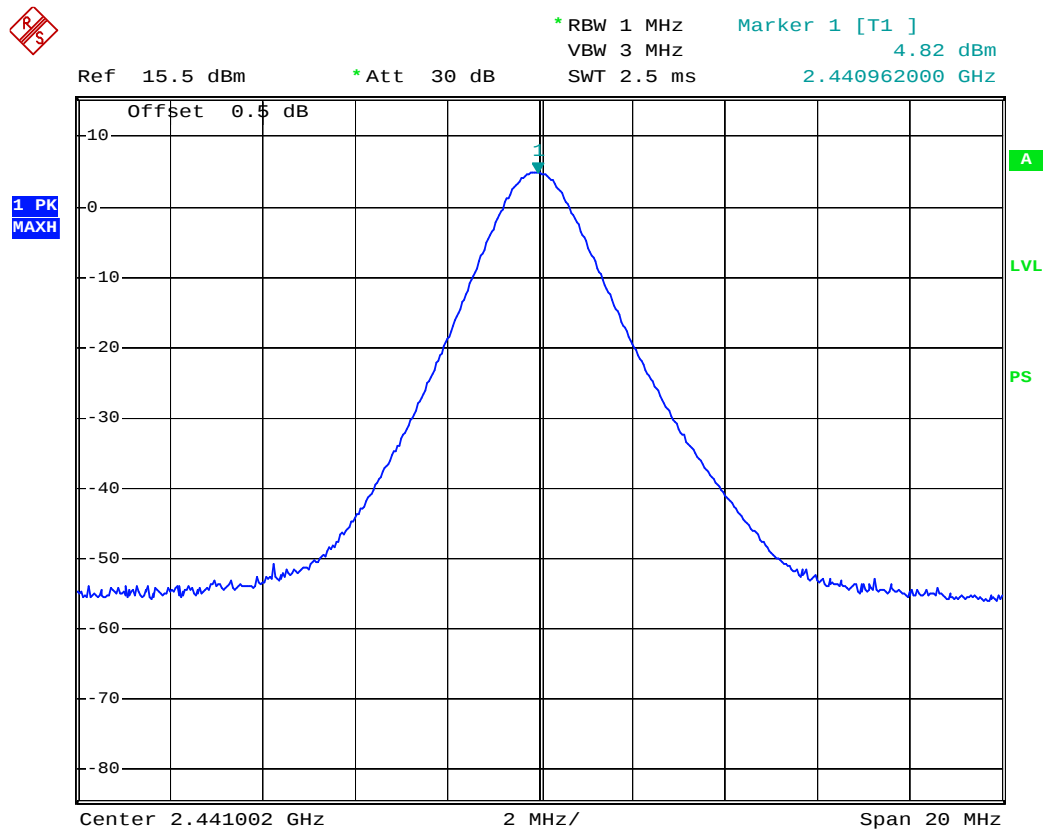
Date: 12.JUN.2006 15:57:22

Middle channel



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 RF Output
t power Base Mid ch

Date: 17.MAY.2006 14:12:24

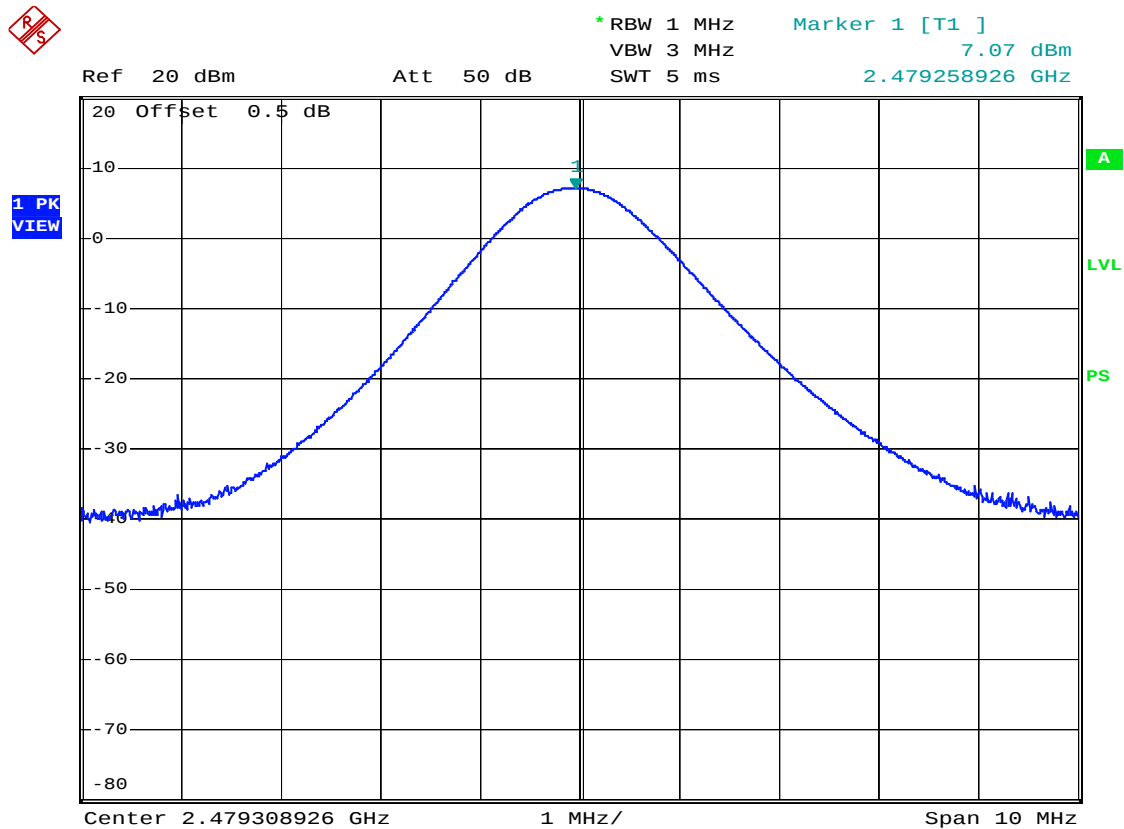


Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 RF Output

t power Handset Mid ch

Date: 12.JUN.2006 15:59:11

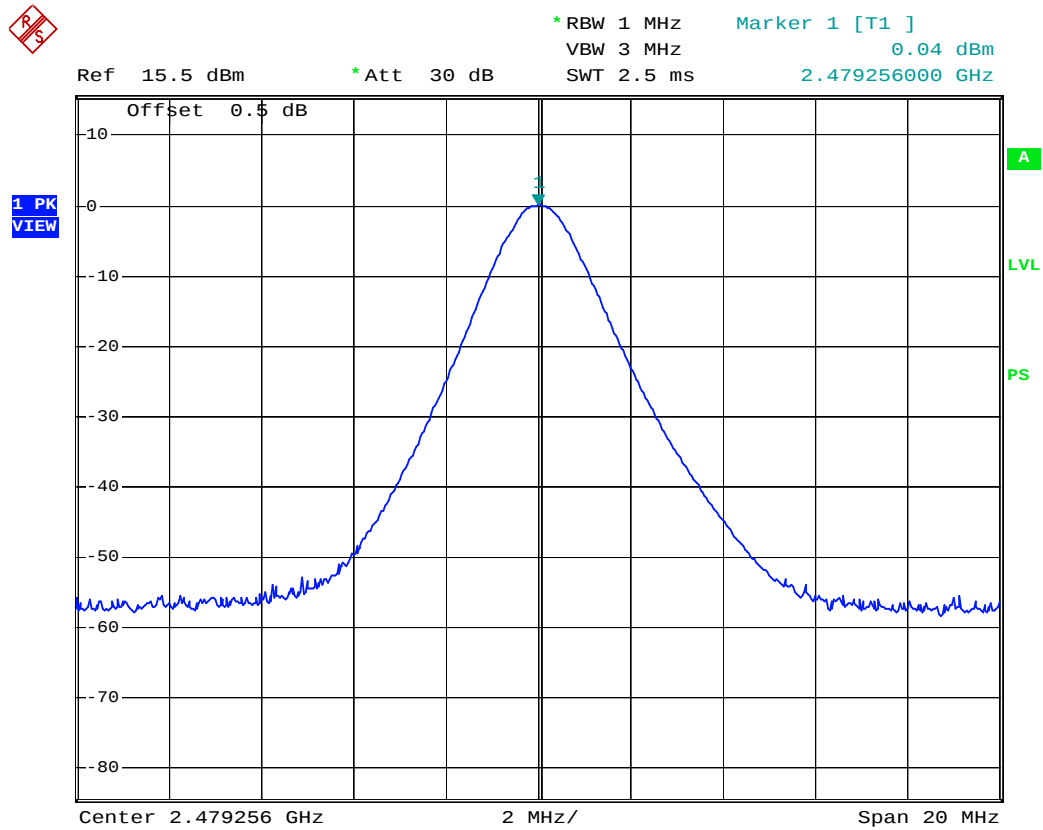
High channel



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 RF Output

t power Base High ch

Date: 17.MAY.2006 14:09:20



Coby 2.4GHz Digital Cordless Telephone M/N:CT-P9340 RF Output

t power Handset High ch

Date: 12.JUN.2006 16:02:31

§15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data**Environmental Conditions**

Temperature:	18 °C
Relative Humidity:	53 %
ATM Pressure:	1009mbar

The testing was performed by Charmi Peng on 2006-6-20.

Test Mode: Base (Transmitting)

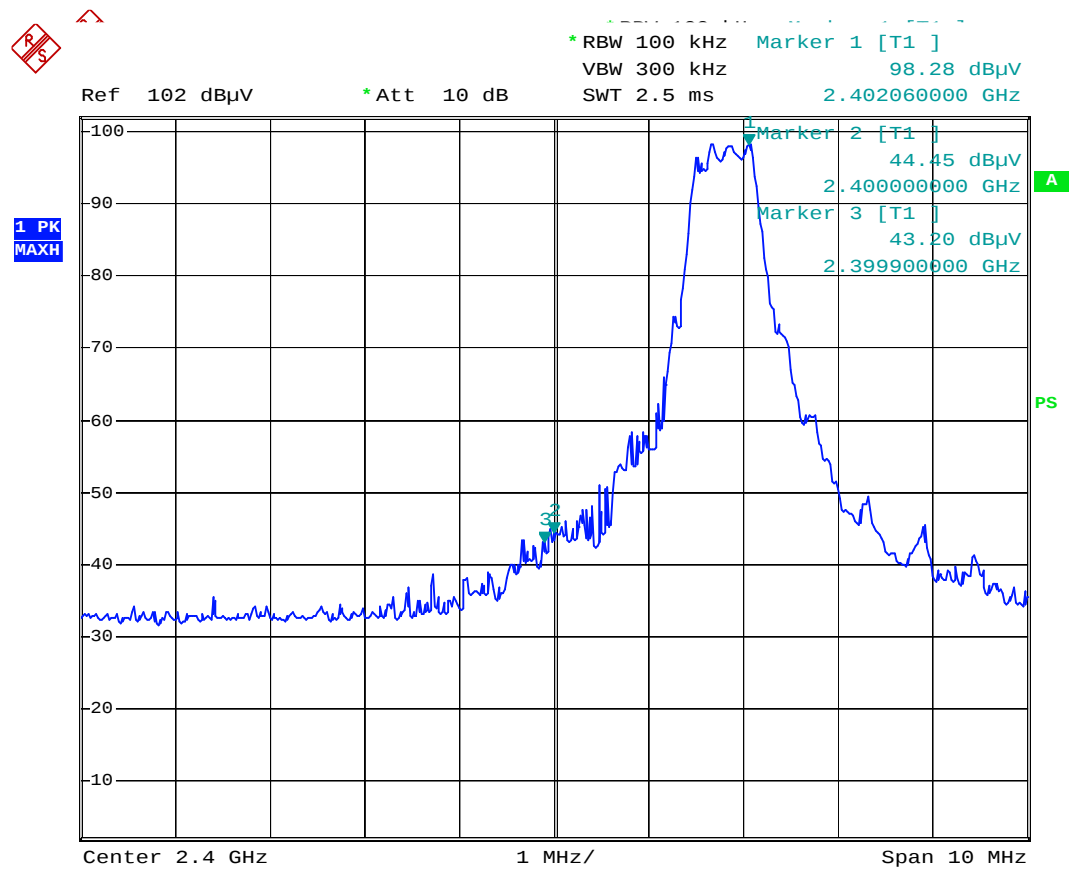
Frequency (MHz)	Emission (dBuV/m)	Limit (dBuV/m)
2400	45.66	54
2483.5	43.78	54

Test Mode: Handset (Transmitting)

Frequency (MHz)	Emission (dBuV/m)	Limit (dBuV/m)
2400	45.66	54
2483.5	43.78	54

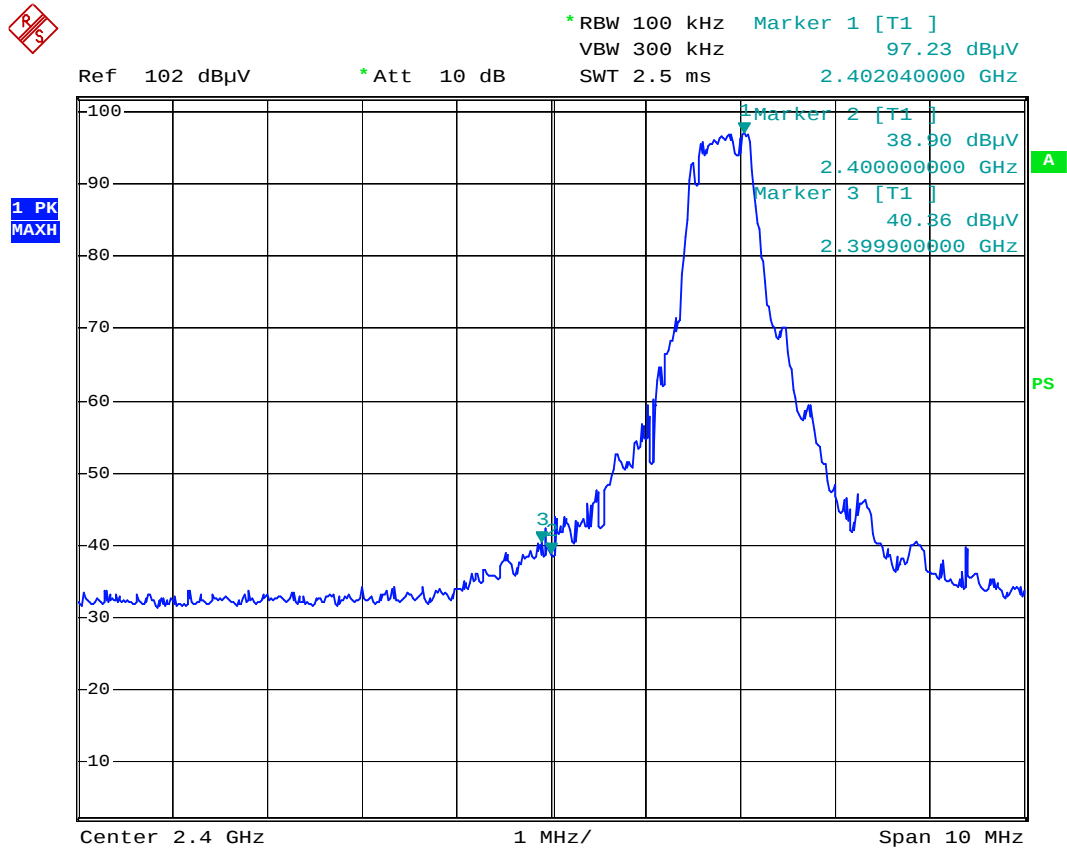
Test Result: Pass

Low channel



coby band edeg base low

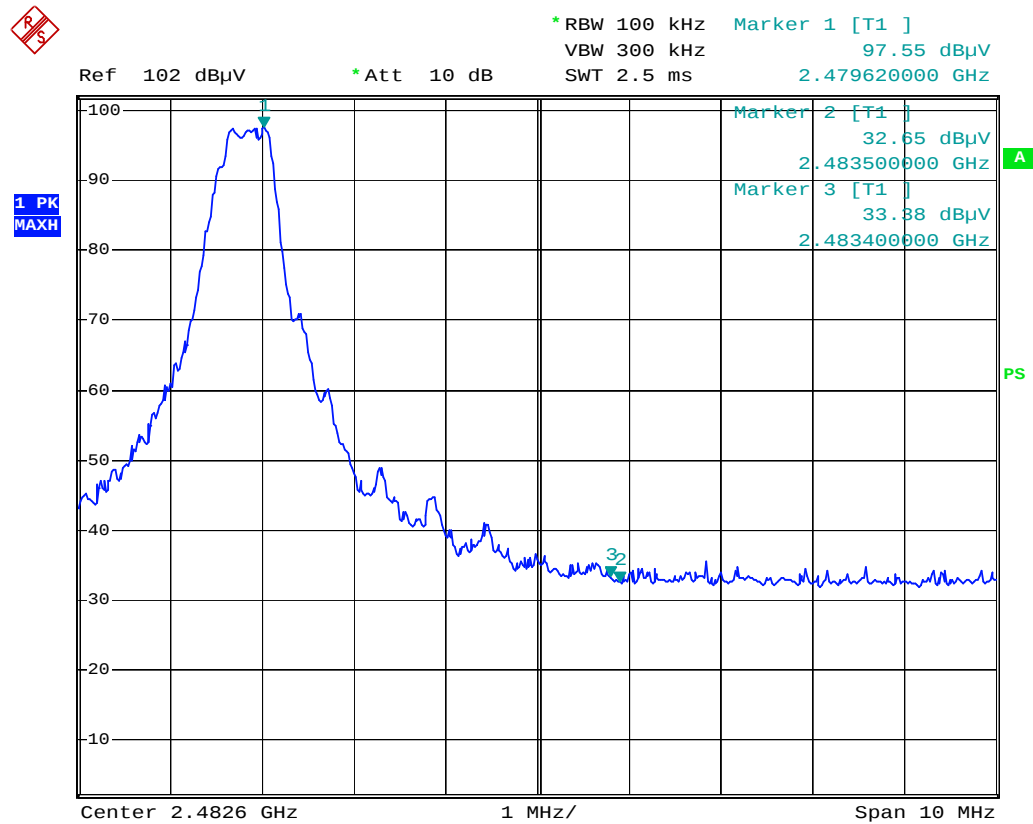
Date: 20.JUN.2006 10:41:04



coby band edeg handset low

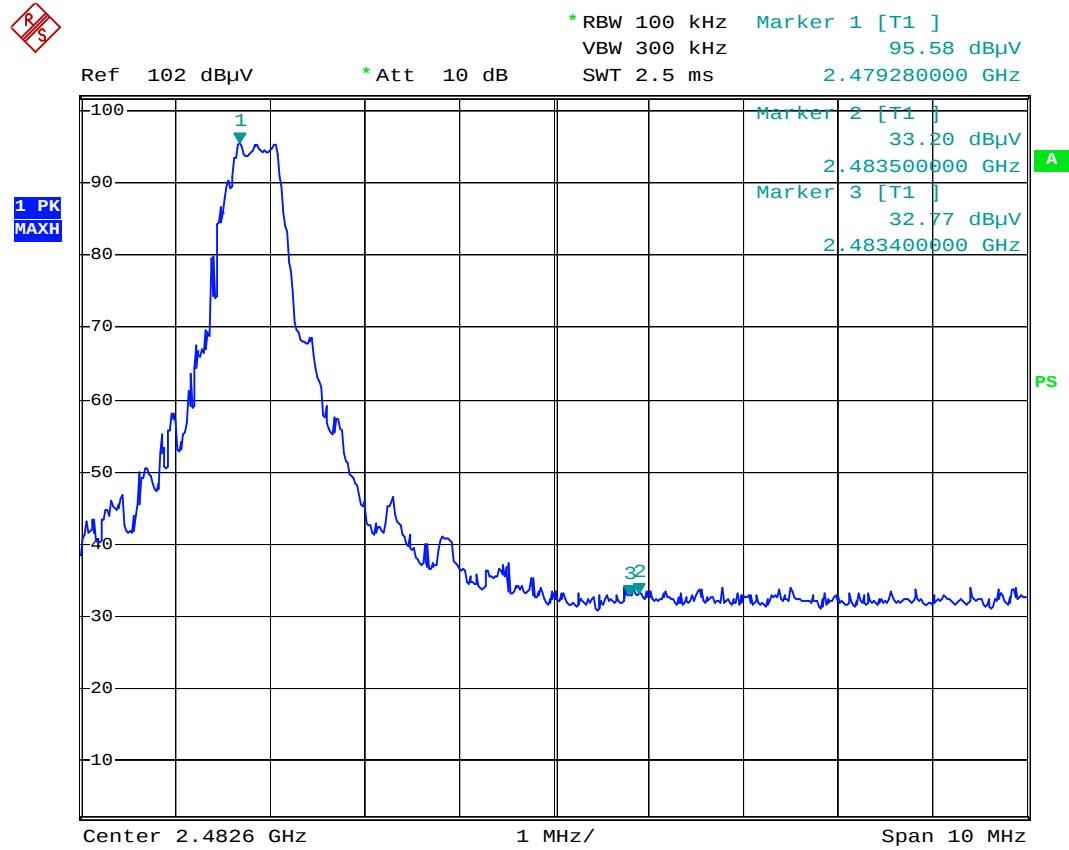
Date: 20.JUN.2006 10:44:57

High channel



coby band edeg base high

Date: 20.JUN.2006 11:04:08



coby band edeg handset high

Date: 20.JUN.2006 11:08:18