

Report No.: EF/2010/70005 **Issue Date: Jul. 27, 2010**

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS-210

OF

Product Name: Bluetooth in-car Speakerphone

Brand Name: Plantronics

Model Name: K100

Model Differences: N/A

IC: 457A-K100

FCC ID: AL8-K100

EF/2010/70005 **Report No.:**

§15.239 Rule Part:

RSS-210 issue 7:2007, Annex 2 A2.8

Jul. 27, 2010 **Issue Date:**

Plantronics, Inc. **Prepared for:**

345 Encinal Street, Santa Cruz, CA95060 USA

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial Zone,

Taipei County, Taiwan.





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VERIFICATION OF COMPLIANCE

Applicant: Plantronics, Inc.

345 Encinal Street, Santa Cruz, CA95060 USA

Equipment Under Test: Bluetooth in-car Speakerphone

Brand Name: Plantronics

Model No.: K100 Model Difference: N/A

IC: 457A-K100 FCC ID: AL8-K100

File Number: EF/2010/70005

Date of test: Jul. 15, 2010 ~ Jul. 26, 2010

Date of EUT Received: Jul. 15, 2010

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.239 and IC RSS 210 issue 7: 2007 Annex 2 A2.8.

The test results of this report relate only to the tested sample identified in this report.

Test By:

Bondi Liu / Engineer

Prepared By:

Tiffany Kao / Clerk

Approved By:

Arno Hsieh /Asst. Supervisor

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Version

Version No.	Date	Description
00	Jul. 27, 2010	Initial creation of document

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1. GENERAL INFORMATION

1.1 Product Description

General:

Concrain			
Product Name	Bluetooth in-car Speakerphone		
Brand Name	Plantronics		
Model Name	K100		
Model Difference	N/A		
Hardware Version:	R6		
Software Version:	Rev 0.019		
	1. 3.7Vdc re-chargeable battery or 5Vdc from car charge		
Power Supply	Battery:	Model: 423350, Supplier: TCL	
	Car charge:	Model Name: SIL050050C-CLA , Supplier: SUNSTRONG	

Bluetooth:

Diuctootii.		
Bluetooth Ver.sion	 V1.1 (GFSK) V1.2 (GFSK) V2.0 (GFSK) V2.0 + EDR (GFSK + π/4DQPSK + 8DPSK) V2.1 + EDR (GFSK + π/4DQPSK + 8DPSK) 	
Frequency Range	2402 – 2480MHz	
Channel number	79 channels max.	
Rated Power	4.07 dBm (Peak)	
Modulation type	Frequency Hopping Spread Spectrum	
Antenna Designation	Printed Antenna, 2.65dBi.	
Type of Emission	1M19FXD	

The EUT is compliance with Bluetooth 2.1 Standard.

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FM Transmitter:

Operating Frequency	88.3 – 89.9 MHz
Transmit Power	47.16 dBuV/m
Modulation Technique	Frequency Modulation
Number of Channels	5, channel step: 400KHz
Operating Mode	Point-to-Point
Antenna Type	Monopole Antenna

The EUT is compliance with FM 88MHz -108MHz Standard. This test report applies for FM transmitter.



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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: <u>AL8-K100</u> filing to comply with Section 15.239 of the FCC Part 15, Subpart C Rules. And IC: <u>457A-K100</u> filing to comply with Industry Canada RSS-210 issue 7: 2007 Annex 2 A2.8.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2007.. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode, the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.9

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range	Limits dB (uV)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

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^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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(2) Radiated Emission

- a. Emission from the intentional radiator shall be confined with a band 200kHz wide centered on the operation frequency. The 200kHz band shall lie wholly within the frequency range of 88-108 MHz.
- b. The field strength of any emission within the permitted 200kHz band shall not exceed 250 micro volts/meter at 3 meters. (48dBµV at 3m) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.
- c. The field strength of any emissions radiated on any frequency outside of the specified 200kHz band shall not exceed the general radiated emission limits in section Part 15.209 and RSS-210 2.7 Table 2 (Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength $\mu V/m$	Distance (m)	Field strength at 3m dBµV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205 and RSS-210 2.7 Table 1
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of \$15.205 and RSS-210 2.7 Table 1, then the general radiated emission limits in ξ 15.209 and RSS-210 2.7 Table 2 apply.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

EUT

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	N/A					

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3. Summary of Test Results

Description Of Test	Remark
Conducted Emission	Complied
Radiated Emission	Complied
20dB & 99% Bandwidth	Complied

4. Description of test modes

The frequency 88.3 MHz and 89.9 MHz are chosen with 1kHz audio signal for full testing. And the EUT stay in continuous transmitting mode.

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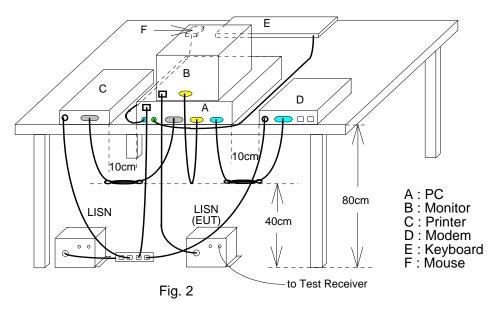
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5. Conducted Emissions Test (Not applicable in the report)

5.1 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- **2.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2009	09/14/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2009	11/27/2010

5.4 Measurement Result:

N/A, the power supply is 5Vdc from car charger.

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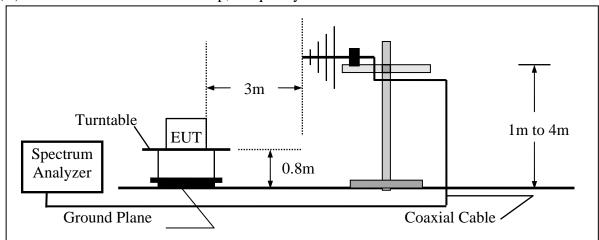
6. Radiated Emission Test

6.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2009	11/18/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/27/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable
		Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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6.5 Measurement Result

Operation Mode: Transmitting Mode Test Date: Jul. 26, 2010

Fundamental Frequency: 88.3 MHz Test By: Bondi Vertical Temperature: Pol: 25 °C

65 % Humidity:

		Detector					Safe	
Freq.	Ant.Pol.	Mode	Reading	Factor	Actual FS	Limit@3m	Margin	Note
(MHz)	H/V	(PK/AV/QP) (dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
88.30	V	Peak	65.46	-30.55	34.91	48.00	-13.09	F
88.00	V	Peak	47.88	-30.58	17.30	40.00	-22.70	E
88.20	V	Peak	50.24	-30.58	19.66	43.50	-23.84	E
88.40	V	Peak	50.33	-30.55	19.78	43.50	-23.72	E
101.78	V	Peak	55.42	-30.15	25.27	48.00	-22.73	Н
143.49	V	Peak	46.85	-27.19	19.66	43.50	-23.84	Н
176.60	V	Peak				43.50		
264.90	V	Peak	47.61	-29.44	18.17	46.00	-27.83	H
353.20	V	Peak				46.00		
441.50	V	Peak				46.00		
529.80	V	Peak				46.00		
531.49	V	Peak	45.23	-24.10	21.13	46.00	-24.87	Н
618.10	V	Peak				46.00		
657.59	V	Peak	44.28	-21.72	22.56	46.00	-23.44	H

Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz. VBW= 300KHz

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Operation Mode: Transmitting Mode Test Date: Jul. 26, 2010

Fundamental Frequency: 88.3 MHz Test By: Bondi Pol: Horizontal Temperature: 25 °C

Humidity: 65 %

		Detector					Safe	
Freq.	Ant.Pol	Mode	Reading	Factor	Actual FS	Limit@3m	Margin	Note
(MHz)	H/V	(PK/AV/QP)(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
88.30	Н	Peak	77.57	-30.55	47.02	48.00	-0.98	F
88.00	Н	Peak	53.69	-30.58	23.11	40.00	-16.89	E
88.20	Н	Peak	58.32	-30.58	27.74	43.50	-15.76	E
88.40	Н	Peak	58.94	-30.55	28.39	43.50	-15.11	E
177.44	Н	Peak	58.43	-29.27	29.16	43.50	-14.34	Н
264.90	Н	Peak	60.44	-29.44	31.00	46.00	-15.00	Н
353.20	Н	Peak				46.00		
441.50	Н	Peak				46.00		
529.80	Н	Peak	59.99	-24.13	35.86	46.00	-10.14	Н
575.14	Н	Peak	57.40	-23.23	34.17	46.00	-11.83	Н
618.10	Н	Peak	56.03	-22.37	33.66	46.00	-12.34	Н
657.59	H	Peak				46.00		
706.09	Н	Peak	53.16	-21.05	32.11	46.00	-13.89	Н

Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band
- (4) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Operation Mode: Transmitting Mode Test Date: Jul. 26, 2010

Fundamental Frequency: 89.9 MHz Test By: Bondi Temperature: 25 °C Pol: Vertical

Humidity: 65 %

		Detector					Safe	
Freq.	Ant.Pol.	Mode	Reading	Factor	Actual FS	<u>Limit@3m</u>	Margin	Note
(MHz)	H/V	(PK/AV/QP)(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
89.90	V	Peak	64.99	-30.55	34.44	48.00	-13.56	F
89.80	V	Peak	52.45	-30.55	21.90	43.50	-21.60	E
90.00	V	Peak	53.88	-30.55	23.33	43.50	-20.17	E
108.00	V	Peak	46.59	-29.57	17.02	43.50	-26.48	E
101.78	V	Peak	52.99	-30.15	22.84	48.00	-25.16	H
179.80	V	Peak				43.50		
269.70	V	Peak	48.94	-29.31	19.63	46.00	-26.37	Н
359.60	V	Peak				46.00		
449.50	V	Peak				46.00		
475.23	V	Peak	45.23	-24.86	20.37	46.00	-25.63	Н
539.40	V	Peak	45.89	-23.97	21.92	46.00	-24.08	H
618.79	V	Peak	44.84	-22.37	22.47	46.00	-23.53	H
629.30	V	Peak				46.00		
719.20	V	Peak				46.00		

Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge
- (4) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz. VBW= 300KHz

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Operation Mode: Transmitting Mode Test Date: Jul. 26, 2010

Fundamental Frequency: 89.9 MHz Test By: Bondi Pol: Horizontal Temperature: 25 °C

Humidity: 65 %

		Detector					Safe	
Freq.	Ant.Pol	. Mode	Reading	Factor	Actual FS	Limit@3m	Margin	Note
(MHz)	H/V	(PK/AV/QP	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
89.90	Н	Peak	77.71	-30.55	47.16	48.00	-0.84	F
89.80	Н	Peak	55.24	-30.55	24.69	43.50	-18.81	E
90.00	Н	Peak	55.78	-30.55	25.23	43.50	-18.27	E
108.00	Н	Peak	45.38	-29.57	15.81	43.50	-27.69	E
179.38	Н	Peak	59.53	-29.37	30.16	43.50	-13.34	Н
269.70	Н	Peak	60.49	-29.31	31.18	46.00	-14.82	H
359.60	Н	Peak				46.00		
449.50	Н	Peak				46.00		
539.40	Н	Peak	33.59	-10.45	23.14	46.00	-22.86	H
575.14	Н	Peak	55.12	-23.23	31.89	46.00	-14.11	H
629.30	Н	Peak	56.18	-22.16	34.02	46.00	-11.98	H
719.20	Н	Peak	50.56	-20.87	29.69	46.00	-16.31	H

Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz, VBW=300KHz.

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7. 20dB & 99% Occupied Bandwidth

7.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =500KHz.
- 4. Set SPA Max hold. Mark peak, -20dB and use 99% Bandwidth of Spectrum Analyzer.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

7.4 Measurement Results

Please refer to next page for test plots.

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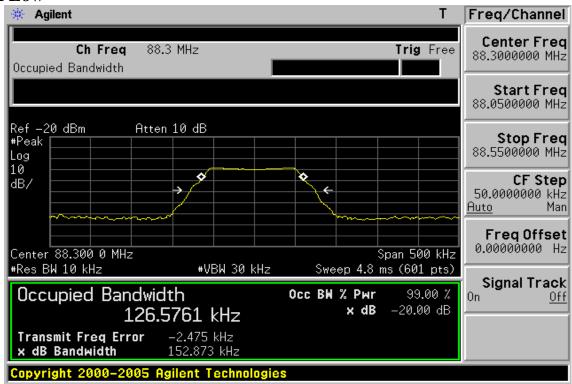
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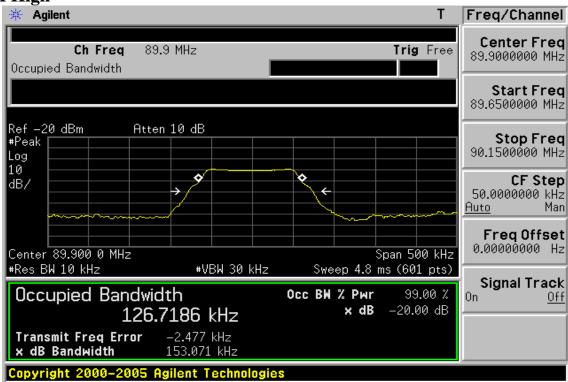
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CH Low



CH High



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