STATEMENT

 This test report# 22/24.231007415.09E is valid for all conducted measurements required
 as per FCC parts 22 & 24 for FCC ID: AU792U04A22750. The FCC ID mentioned within the test report belongs to CDMA module used in this application.



PCTEST Engineering Laboratory, Inc. 6660-B Dobbin Road • Columbia, MD 21045 • U.S.A. TEL (410) 290-6652 • FAX (410) 290-6654 http://www.pctestlab.com



CERTIFICATE OF COMPLIANCE FCC Part 24 & 22 Certification

WAVECOM, INC. 4810 Eastgate Mall, 2nd Floor San Diego, CA 92121 Dates of Tests: Oct. 24-27, 2003 Test Report S/N: 22/24.231007415.O9E Test Site: PCTEST Lab, Columbia MD

FCC ID

O9EQ2438

APPLICANT

WAVECOM, INC.

Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§24(E), §22(H); §2
EUT Type:	Dual-Band CDMA Wireless Module
Model:	Q2438
Tx Frequency Range:	824.70 – 848.31MHz (CDMA) / 1851.25MHz – 1908.75MHz (PCS CDMA)
Rx Frequency Range:	869.70 – 893.31MHz (CDMA) / 1931.25MHz – 1988.75MHz (PCS CDMA)
Max. RF Output Power:	23.5 dBm Conducted
Emission Designator(s):	1M25F9W (CDMA)

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant conditions: Modular device. Output power is conducted. This device is authorized for mobile use only. The maximum antenna gain should not exceed 6 dBi. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. Users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

Alfred Cirwithian Vice President Engineering



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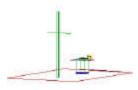
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MEASUREMENT REPORT

1.1 Scope



Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

§2.1033 General Information

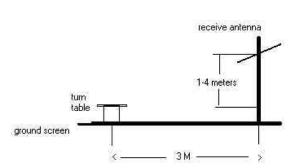
Applicant Name: Address:	WAVECOM, INC. 4810 Eastgate Mall, 2 nd Floor San Diego, CA 92121
• FCC ID:	O9EQ2438
Quantity:	Quantity production is planned
Emission Designators:	1M25F9W (CDMA)
• Tx Freq. Range:	824.70 – 848.31 MHz (CDMA) 1851.25 – 1908.75 MHz (PCS CDMA)
• Rx Freq. Range:	869.70 – 893.31 MHz (CDMA) 1931.25 – 1988.75 MHz (PCS CDMA)
• Max. RF Output Power:	23.5 dBm Conducted
FCC Classification(s):	PCS Licensed Transmitter (PCB)
• Equipment (EUT) Type:	Dual-Band CDMA Wireless Module
Modulation(s):	CDMA
Frequency Tolerance:	± 0.00025% (2.5 ppm)
• FCC Rule Part(s):	§ 24(E), §22H
Dates of Tests:	Oct. 24-27, 2003
Place of Tests:	PCTEST Lab, Columbia, MD U.S.A.
Test Report S/N:	22/24.231007415.O9E

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Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.



Open Area Test Site

Figure 2. Diagram of 3-meter outdoor test range

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These measurement tests were conducted at *PCTEST Engineering Laboratory, Inc.* facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

Measurement Procedure

The radiated and spurious measurements were made outdoors at a 3-meter test range (see Figure2). The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.



3.1 INSERTS

Function of Active Devices (Confidential)

The Function of active devices are shown in Attachment J.

Block & Schematic Diagrams (Confidential)

The block diagrams are shown in Attachment H, and the schematic diagrams are shown in Attachment I.

Operating Instructions

The instruction manual is shown in Attachment L.

Parts List & Tune-Up Procedure (Confidential)

The parts list & tune-up procedure is shown in Attachment K.

Description of Freq. Stabilization Circuit (Confidential)

The description of frequency stabilization circuit is shown in Attachment J.

Description for Suppression of Spurious Radiation, for Limiting Modulation, and Harmonic Suppression Circuits (Confidential)

The description of suppression stabilization circuits is shown in Attachment J.

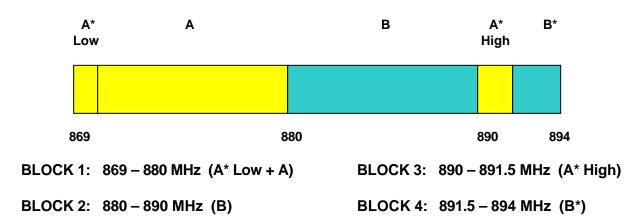
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4.1 DESCRIPTION OF TESTS (CONTINUED)

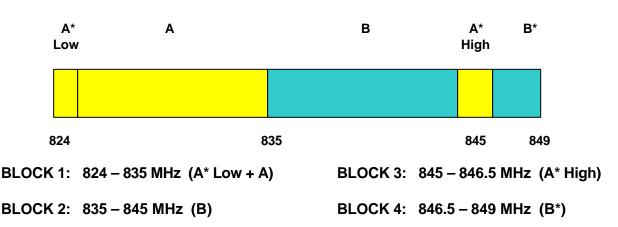
4.2 Occupied Bandwidth Emission Limits

- (a) On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB.
- (b) Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- (c) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (d) The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.



4.3 Cellular - Base Frequency Blocks

4.4 Cellular - Mobile Frequency Blocks

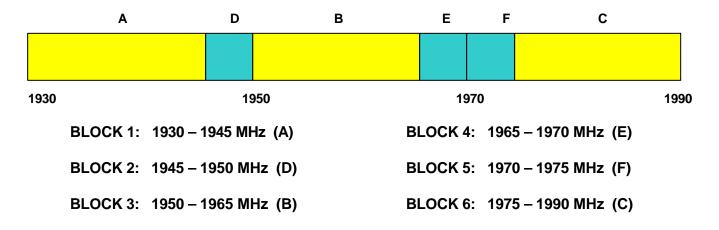


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4.1 DESCRIPTION OF TESTS (CONTINUED)

4.5 PCS - Base Frequency Blocks



4.6 PCS - Mobile Frequency Blocks

	Α	D	В		Е	F	С	
1850		1	870		189	90		1910
	BLOCK 1:	1850 – 1865 M	Hz (A)	BL	OCK 4:	: 1885	5–1890 MHz (E)	
	BLOCK 2:	1865 – 1870 M	Hz (D)	BL	OCK 5:	: 1890) – 1895 MHz (F)	
	BLOCK 3:	1870 – 1885 M	Hz (B)	BLO	OCK 6:	: 1895	5 – 1910 MHz (C)	

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4.1 DESCRIPTION OF TESTS (CONTINUED)

4.7 Spurious and Harmonic Emissions at Antenna Terminal

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10 GHz. The transmitter is modulated with a 2500Hz tone at a level of 16dB greater than that required to provided 50% modulation.

At the input terminals of the spectrum analyzer, an isolator (RF circulator with on port terminated with 50 ohms) and an 870 MHz to 890 MHz bandpass filter is connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The rejection of the bandpass filter to signals in the 825 – 845 MHz range is adequate to limit the transmit energy from the test transceiver which appears to a level which will allow the analyzer to measure signals less than –90dBm. Calibration of the test receiver is performed in the 870 – 890 MHz range to insure accuracy to allow variation in the bandpass filter insertion loss to be calibrated.

4.8 Frequencies

At the input terminals of the spectrum analyzer, an isolator (RF pad) and a high-pass filter are connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The high-pass filter (signals below 1.6 GHz) is to limit the fundamental frequency from interfering with the measurement of low-level spurious and harmonic emissions and to ensure that the preamplifier is not saturated.

4.9 Radiation Spurious and Harmonic Emissions

Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +60°C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ± 0.00025 (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (22°C to 25°C to provide a reference).
- 2. The equipment is subjected to an overnight "soak" at -30°C without any power applied.
- 3. After the overnight "soak" at -30°C (usually 14-16 hours), the equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
- 4. Frequency measurements are made at 10°C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
- 5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
- 6. Frequency measurements are at 10 intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
- 7. The artificial load is mounted external to the temperature chamber.

NOTE: The EUT is tested down to the battery endpoint.

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5.2 FREQUENCY STABILITY (CDMA)

 OPERATING FREQUENCY:
 835,890,006
 Hz

 CHANNEL:
 363

REFERENCE VOLTAGE: <u>3.7</u> VDC

DEVIATION LIMIT: <u>± 0.00025</u>% or 2.5 ppm

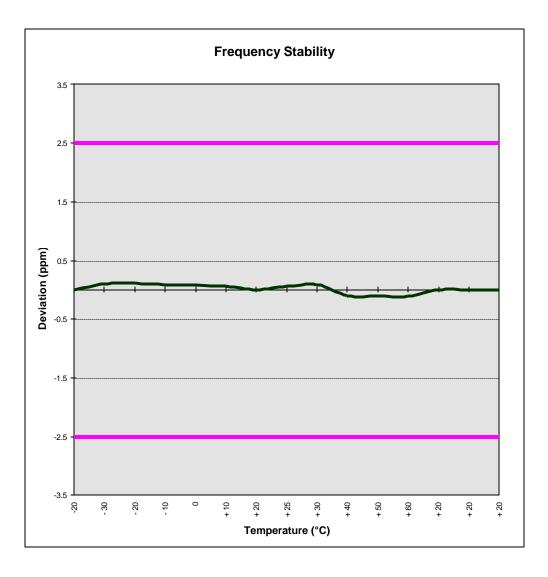
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	835,890,006	0.000000
100 %		- 30	835,889,922	0.000010
100 %		- 20	835,889,914	0.000011
100 %		- 10	835,889,931	0.000009
100 %		0	835,889,939	0.00008
100 %		+ 10	835,889,956	0.000006
100 %		+ 20	835,890,006	0.000000
100 %		+ 25	835,889,956	0.000006
100 %		+ 30	835,889,931	0.000009
100 %		+ 40	835,890,090	-0.000010
100 %		+ 50	835,890,098	-0.000011
100 %		+ 60	835,890,098	-0.000011
85 %	3.17	+ 20	835,890,006	0.000000
115 %	4.26	+ 20	835,890,006	0.000000
BATT. ENDPOINT	3.15	+ 20	835,890,006	0.000000

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5.1 Test Data (Continued)

5.3 FREQUENCY STABILITY (CDMA)



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5.1 Test Data (Continued)

5.4 FREQUENCY STABILITY (PCS CDMA)

 OPERATING FREQUENCY:
 1,880,000,002
 Hz

 CHANNEL:
 600

REFERENCE VOLTAGE: <u>3.7</u> VAC

DEVIATION LIMIT: <u>± 0.00025</u> % or 2.5 ppm

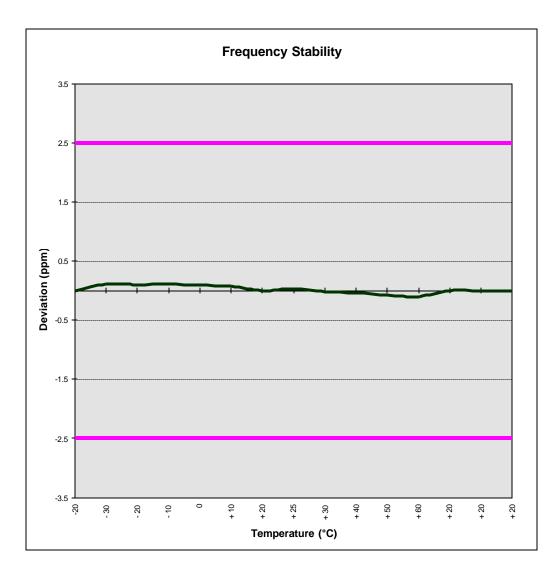
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	1,880,000,002	0.000000
100 %		- 30	1,879,999,795	0.000011
100 %		- 20	1,879,999,814	0.000010
100 %		- 10	1,879,999,795	0.000011
100 %		0	1,879,999,833	0.000009
100 %		+ 10	1,879,999,870	0.00007
100 %		+ 20	1,880,000,002	0.000000
100 %		+ 25	1,879,999,946	0.000003
100 %		+ 30	1,880,000,040	-0.000002
100 %		+ 40	1,880,000,077	-0.000004
100 %		+ 50	1,880,000,152	-0.000008
100 %		+ 60	1,880,000,190	-0.000010
85 %	3.17	+ 20	1,880,000,002	0.000000
115 %	4.26	+ 20	1,880,000,002	0.000000
BATT. ENDPOINT	3.03	+ 20	1,880,000,002	0.000000

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5.1 Test Data (Continued)

5.5 FREQUENCY STABILITY (PCS CDMA)



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(SEE ATTACHMENT D)

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7.1 TEST EQUIPMENT

Туре	Model C	al. Due Date	S/N
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	08/15/04	3638A08713
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	04/17/04	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (100Hz-1.8GHz)	08/10/04	3144A02458
Signal Generator*	HP 8640B (500Hz-1GHz)	06/03/04	2232A19558
Signal Generator [*]	HP 8640B (500Hz-1GHz)	06/03/04	1851A09816
Signal Generator [*]	Rohde & Schwarz (0.1-1000MHz)	09/11/04	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30-1000MHz)	04/12/04	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30-1000MHz)	03/11/04	0805-03334
Ailtech/Eaton Receiver	NM17/27A (0.1-32MHz)	09/17/04	0608-03241
Quasi-Peak Adapter	HP 85650A	08/15/04	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI OP Adapter	03/11/04	0194-04082
Gigatronics Universal Power Meter	8657A	00/11/07	1835256
Gigatronics Power Sensor	80701A (0.05-18GHz)		1833460
Signal Generator	HP 8648D (9kHz-4GHz)		3613A00315
Amplifier Research	5S1G4 (5W, 800MHz-4.2GHz)		22322
Network Analyzer	HP 8753E (30kHz-3GHz)		JP38020182
Audio Analyzer	HP 8903B		3011A09025
Modulation Analyzer	HP 8901A		2432A03467
Power Meter	HP 437B		3125U24437
Power Sensor	HP 8482H (3QuW-3W)		2237A02084
Harmonic/Flicker Test System			3531A00115
5	HP 6841A (IEC 555-2/3) HP 8447D		1145A00470, 1937A0334
Broadband Amplifier (2) Broadband Amplifier	HP 8447D HP 8447F		1143A00470,1937A0334 2443A03784
Broadband Amplifier			
Horn Antenna	EMCO Model 3115 (1-18GHz)		9704-5182
Hom Antenna	EMCO Model 3115 (1-18GHz)		9205-3874
Horn Antenna Biagniagl Amtenna (4)	EMCO Model 3116 (18-40GHz)	or 01155 1/Commission Doc	9203-2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455-1/Sing	er 94455-1/Compliance Des	•
Log-Spiral Antenna (3) Debutte Diselec	Ailtech/Eaton 93490-1		0608, 1103, 1104
Roberts Dipoles	Compliance Design (1 set)		00440 111
Ailtech Dipoles	DM-105A (1 set)		33448-111
EMCOLISN (6)	3816/2		1079
Microwave Preamplifier 40dB Gain	HP 83017A (0.5-26.5GHz)		3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)		
Ailtech/Eaton Receiver	NM37/57A-SL		0792-03271
Spectrum Analyzer	HP 8594A		3051A00187
Spectrum Analyzer (2)	HP 8591A		3034A01395, 3108A020
Microwave Survey Meter	Holaday Model 1501 (2.450GHz)		80931
Digital Thermometer	Extech Instruments 421305		426966
Attenuator	HP 8495A (0-70dB) DC-4GHz		
Bi-Directional Coax Coupler	arda 3020A (50-1000MHz)		
Shielded Screen Room	RF Lindgren Model 26-2/2-0		6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81		R2437 (PCT278)
Enviromental Chamber	Associated Systems Model 1025 (Temperature/Humidity)	PCT285
* Calibr	ation traceable to the National Institu	te of Standards and Techno	ology (NIST).

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8.1 SAMPLE CALCULATIONS

A. Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25 MHz F = Frequency Modulation 9 = Composite Digital Info W = Combination (Audio/Data) (Measured at the 99.75% power bandwidth)

B. Spurious Radiated Emission - PCS Band

Example: Channel 25 PCS Mode 2nd Harmonic (3702.50 MHz)

The receive analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the receive analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3702.50 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80) = 50.3 dBc

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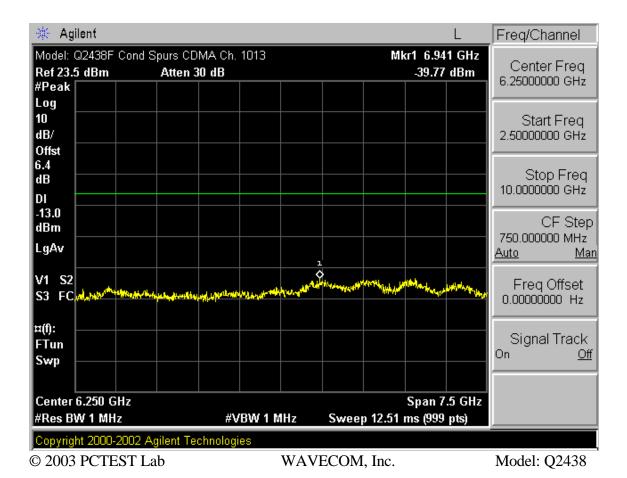


9.1 CONCLUSION

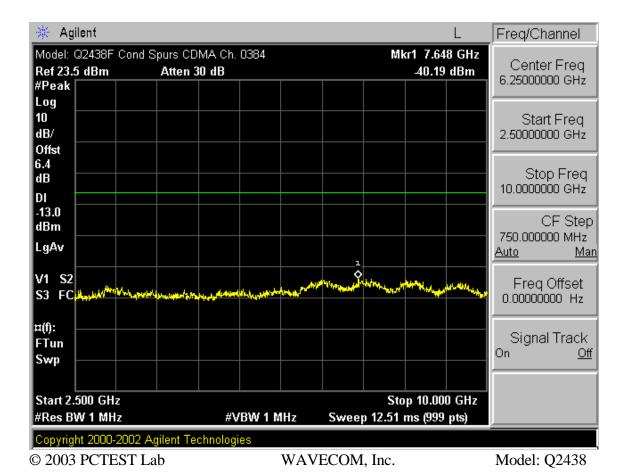
The data collected shows that the **WAVECOM Dual-Band CDMA Wireless Module FCC ID: O9EQ2438** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

PCTESTÔ PT. 22/24 REPORT				Reviewed By: Quality Manager
Test Report S/N: 22/24.231007415.O9E	Test Dates: Oct. 24-27, 2003	EUT Type: Dual-Band CDMA Wireless Module	FCC ID: O9EQ2438	Page 17 of 17
© 2003 PCTEST ENGINEERING LABORA	TORY, INC.	<u>.</u>		

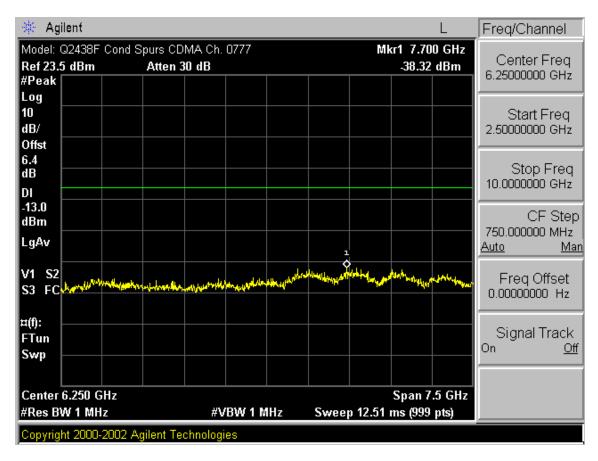
🔆 Agilent			L	Freq/Channel
Ref 23.5 dBm #Peak	d Spurs CDMA Ch. 1013 Atten 30 dB		Mkr1 871 MHz -17.53 dBm	Center Freq 1.25500000 GHz
Log 10 dB/ Offst				Start Freq 10.000000 MHz
6.4 dB DI	1 0			Stop Freq 2.5000000 GHz
-13.0 dBm LgAv				CF Step 249.00000 MHz <u>Auto Man</u>
M1 S2 S3 FC	diferent theman and of these areas and an interest		n sen de ant particul set set set an server ab	Freq Offset 0.00000000 Hz
¤(f): FTun Swp				Signal Track ^{On <u>Off</u>}
Start 10 MHz #Res BW 1 MHz	#VBW 1 M		Stop 2.500 GHz 2 ms (999 pts)	
Copyright 2000-2002 Agilent Technologies				

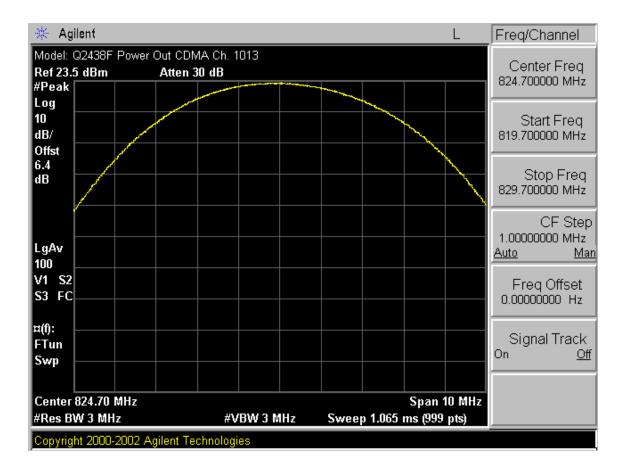


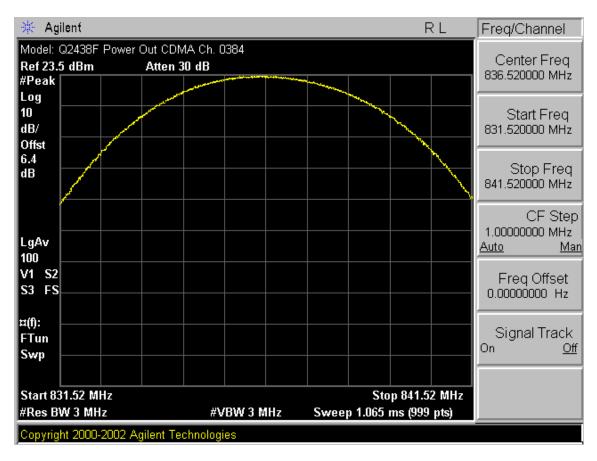
🔆 Agilent		RT	Freq/Channel
Ref 23.5 dBm #Peak	d Spurs CDMA Ch. 0384 Atten 30 dB	Mkr1 881 MHz -17.97 dBm	Center Freq 1.25500000 GHz
Log 10 dB/ Offst			Start Freq 10.0000000 MHz
6.4 dB			Stop Freq 2.5000000 GHz
-13.0 dBm LgAv	◆		CF Step 249.000000 MHz Auto Mar
M1 S2 S3 FC	the assertion of the house of the second	anglanta affafan analasha ka dara para dara bikara ka anan suka se	Freq Offset 0.00000000 Hz
¤(f): FTun Swp			Signal Track ^{On <u>Off</u>}
Start 10 MHz #Res BW 1 MHz	#VBW 1 MHz	Stop 2.500 GHz Sweep 4.192 ms (999 pts)	
Copyright 2000-2002	2 Agilent Technologies		

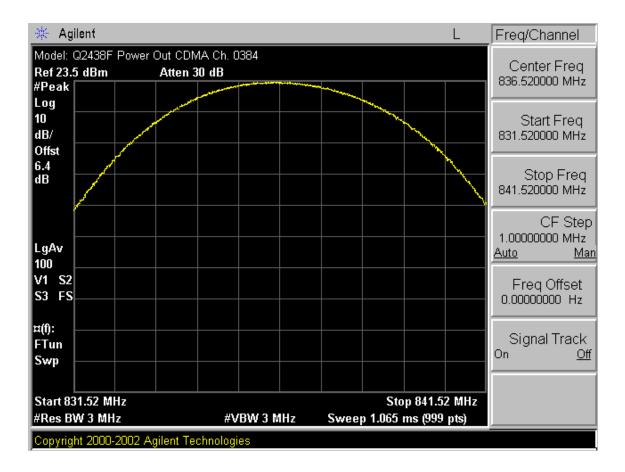


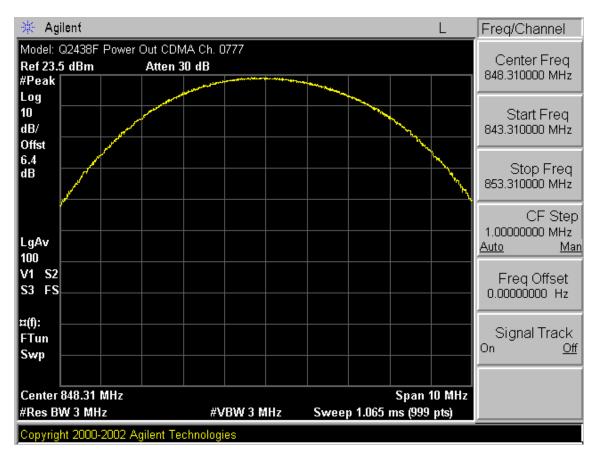
🔆 Agilent						L	Freq/Channel
Model: Q2438F (Ref 23.5 dBm #Peak	Cond Spurs CDI Atten 3		7		Mkr1 893 -20.51 d		Center Freq 1.25500000 GHz
Log 10 dB/ Offst							Start Freq 10.0000000 MHz
6.4 dB DI		1					Stop Freq 2.5000000 GHz
-13.0 dBm LgAv							CF Step 249.000000 MHz <u>Auto Man</u>
V1 S2 S3 FC مىمەيىمە	n an de antis an	w Wisegerstein	Rockeyster, Sectored at the	an a	allesservers), the work is as	⋗ ∊⋧ _{⋽⋛} ⋼ <mark>⋛</mark> ⋖⋚⋎⋗	Freq Offset 0.00000000 Hz
¤(f): FTun Swp							Signal Track ^{On <u>Off</u>}
Center 1.255 GH #Res BW 1 MHz		#VBW	1 MHz	Sweep 4.19	Span 2.49 2 ms (999 p		
Copyright 2000-2	002 Agilent Teo	hnologies					

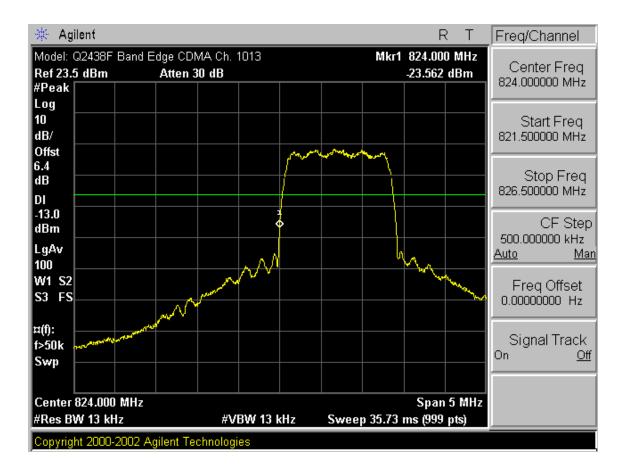


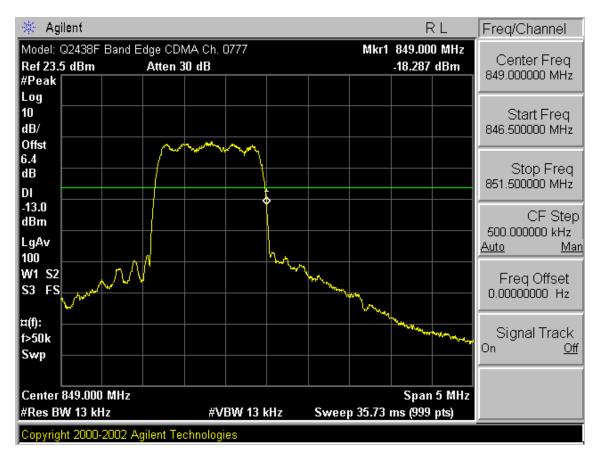








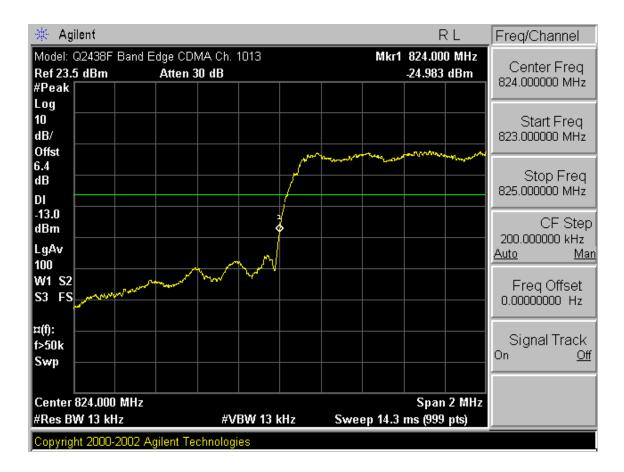


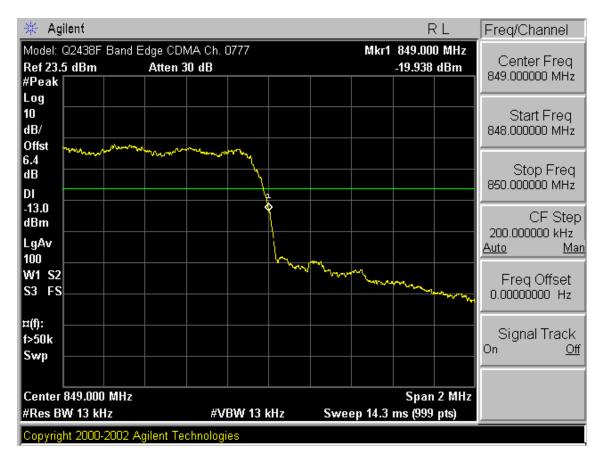


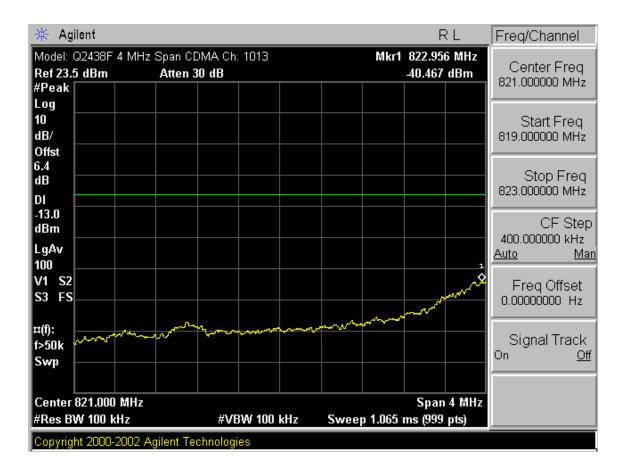
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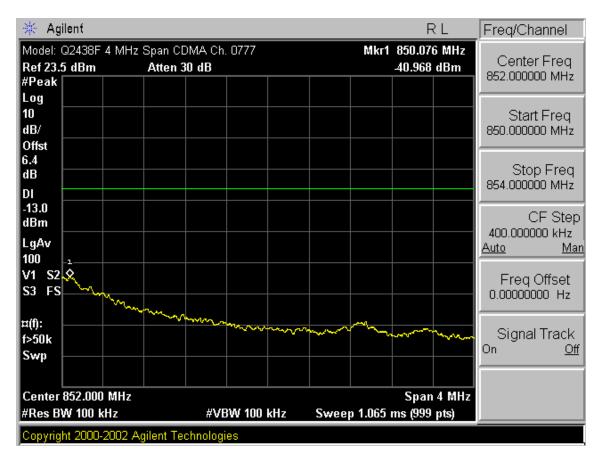
WAVECOM, Inc.

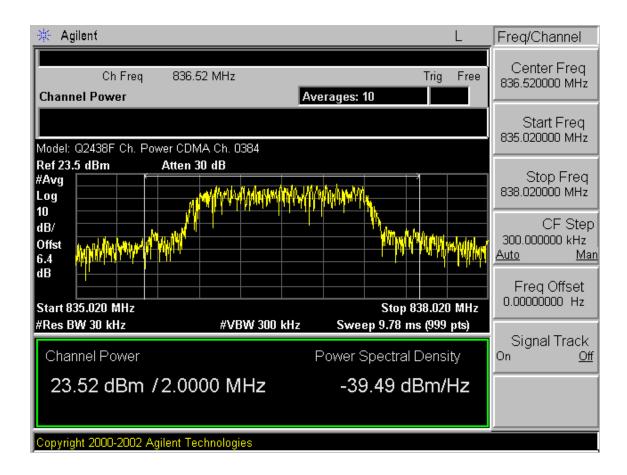
Model: Q2438

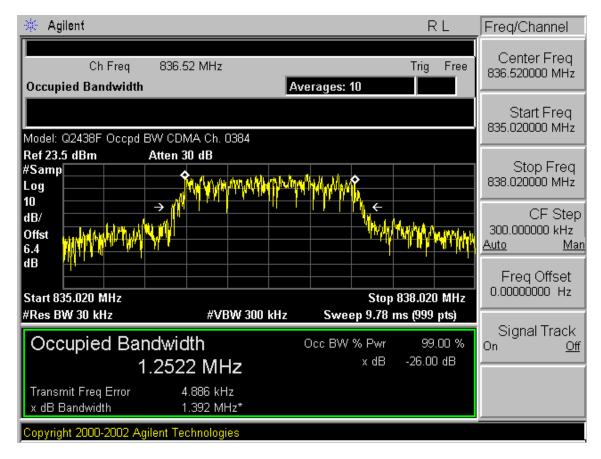




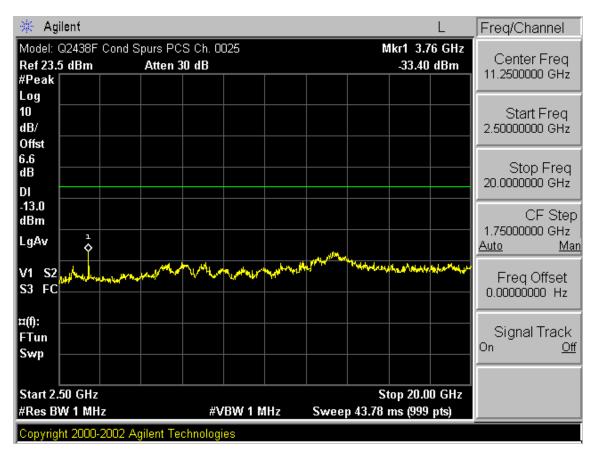






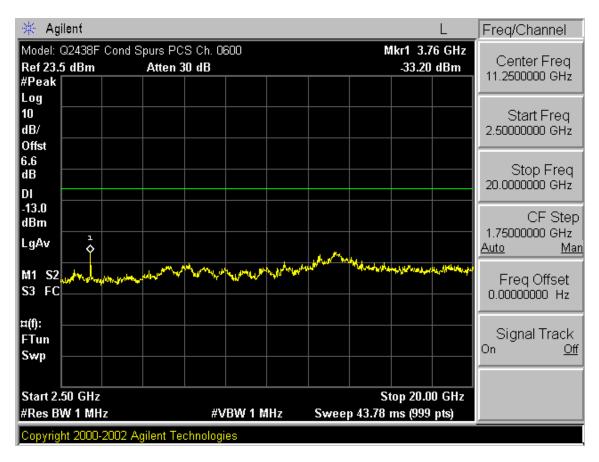


🔆 Agilent			L	Freq/Channel
Ref 23.5 dBm #Peak	nd Spurs PCS Ch. 0025 Atten 30 dB		Mkr1 1.961 GHz -16.26 dBm	Center Freq 1.25500000 GHz
Log 10 dB/ Offst				Start Freq 10.000000 MHz
6.6 dB DI			1	Stop Freq 2.5000000 GHz
-13.0 dBm LgAv				CF Step 249.000000 MHz <u>Auto Man</u>
V1 S2 S3 FC	and any and the first standing and an and		A a a construction of the second seco	Freq Offset 0.00000000 Hz
¤(f): FTun Swp				Signal Track On <u>Off</u>
Start 10 MHz #Res BW 1 MHz	#VBW 1	MHz Sweep	Stop 2.500 GHz 4.192 ms (999 pts)	
Copyright 2000-200	2 Agilent Technologies			

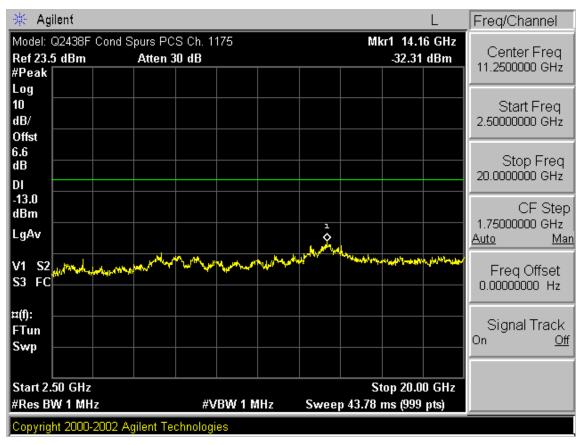


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🔆 Agilent			L	Freq/Channel
Ref 23.5 dBm #Peak	d Spurs PCS Ch. 0600 Atten 30 dB	MI	cr1 1.959 GHz -17.16 dBm	Center Freq 1.25500000 GHz
Log 10 dB/ Offst				Start Freq 10.000000 MHz
6.6 dB DI		,		Stop Freq 2.5000000 GHz
-13.0 dBm LgAv				CF Step 249.00000 MHz <u>Auto Man</u>
M1 S2 S3 FC	مرتبعيان بولا فرارون مرور بروار روار فالاستنباط المراجعة وميا معلوه والمراجع وما يتحقق	www.whitewww.white	الم المريد الم المريد الم المريد الم المريد الم الم الم الم	Freq Offset 0.00000000 Hz
¤(f): FTun Swp				Signal Track On <u>Off</u>
Start 10 MHz #Res BW 1 MHz	#VBW 1 MH		top 2.500 GHz ms (999 pts)	
Copyright 2000-2002	2 Agilent Technologies			



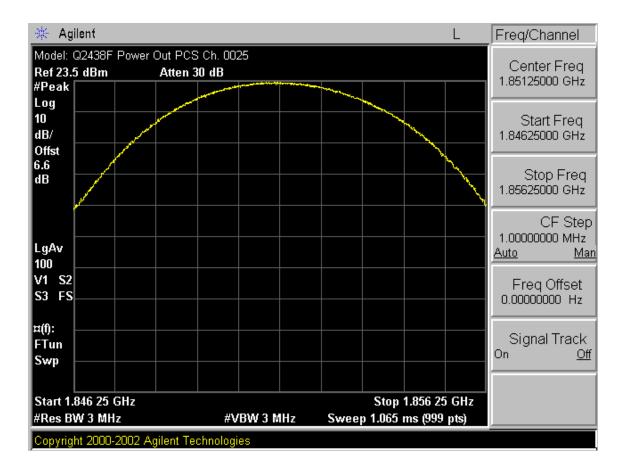
🔆 Agilent		L	Freq/Channel
Model: Q2438F Cond S Ref 23.5 dBm #Peak	Spurs PCS Ch. 1175 Atten 30 dB	Mkr1 1.989 GHz -17.02 dBm	Center Freq 1.25500000 GHz
Log 10 dB/ Offst			Start Freq 10.0000000 MHz
6.6 dB DI			Stop Freq 2.5000000 GHz
-13.0 dBm LgAv			CF Step 249.000000 MHz <u>Auto Man</u>
M1 S2 S3 FC	มีสาขามูลการการสาขาสุสาขารสาขางการการการการการการสาว 	and a second and the second second	Freq Offset 0.00000000 Hz
¤(f): FTun Swp			Signal Track On <u>Off</u>
Start 10 MHz #Res BW 1 MHz	#VBW 1 MHz	Stop 2.500 GHz Sweep 4.192 ms (999 pts)	
Copyright 2000-2002 A	gilent Technologies		

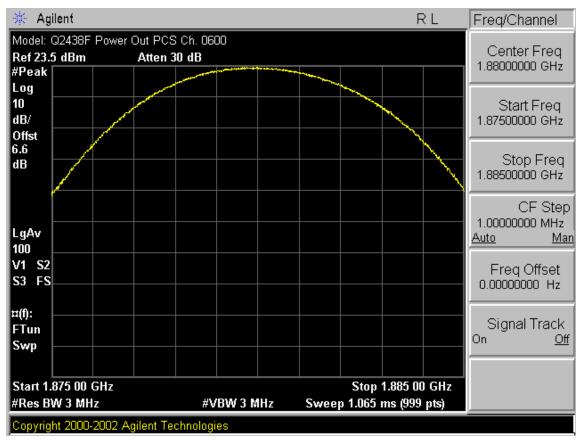


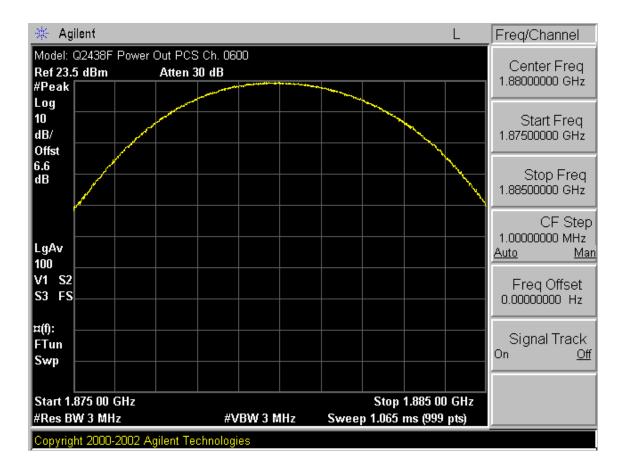
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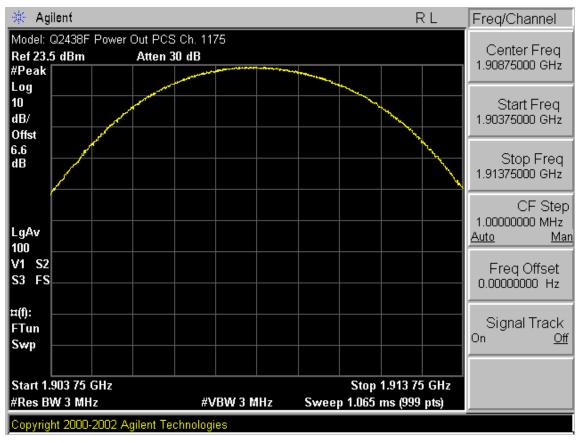
WAVECOM, Inc.

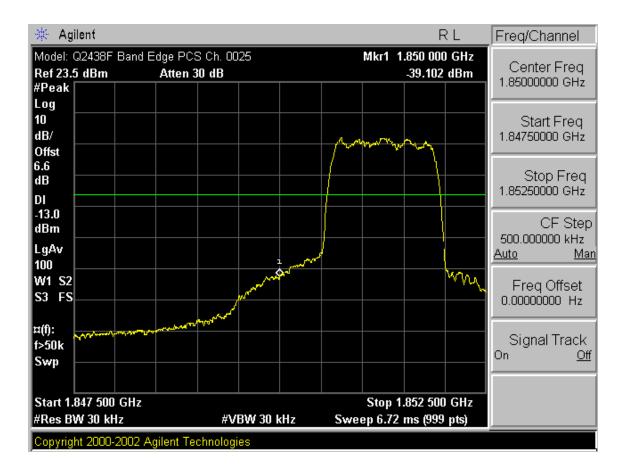
Model: Q2438

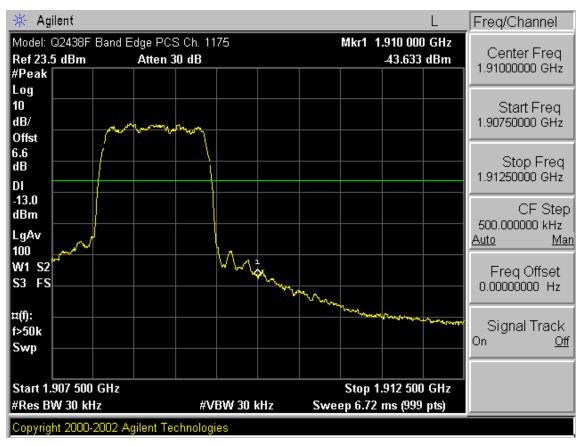








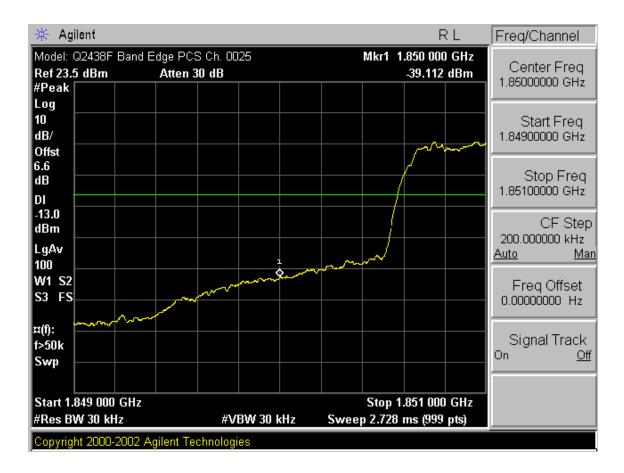


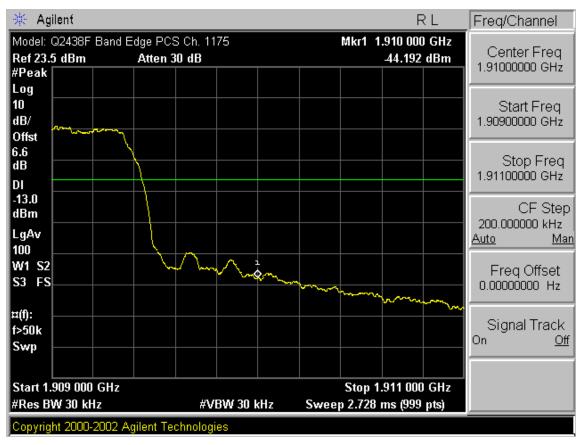


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WAVECOM, Inc.

Model: Q2438





🔆 Agilent		RL	Freq/Channel
Ref 23.5 dBm #Peak	z Span PCS Ch. 0025 Atten 30 dB	Mkr1 1.848 996 GHz -27.964 dBm	Center Freq 1.84700000 GHz
Log 10 dB/ Offst			Start Freq 1.8450000 GHz
6.6 dB DI			Stop Freq 1.8490000 GHz
-13.0 dBm LgAv			CF Step 400.000000 kHz <u>Auto Man</u>
100 V1 S2 S3 FS	ىرى ئەرىپى سەرەپىيە بەرەپىيە ئەرەپىيە بەرەپىيە بىرىكىيەت يارىپ يېرىپىيە بىرىپى سىي	The second s	Freq Offset 0.00000000 Hz
¤(f): FTun Swp			Signal Track ^{On <u>Off</u>}
Start 1.845 000 GHz #Res BW 1 MHz	#VBW 1 MHz	Stop 1.849 000 GHz Sweep 1.065 ms (999 pts)	
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