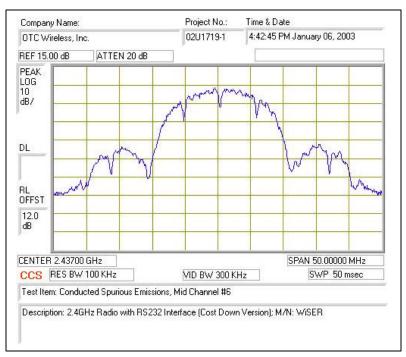
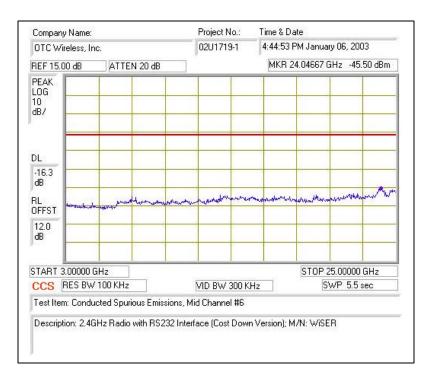


#### Mid Channel:



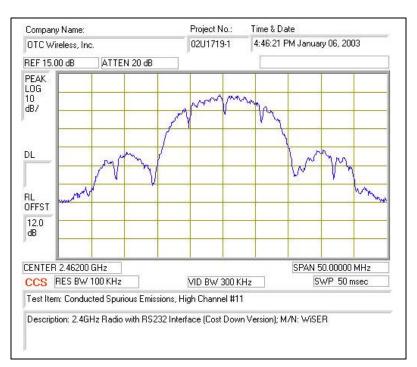
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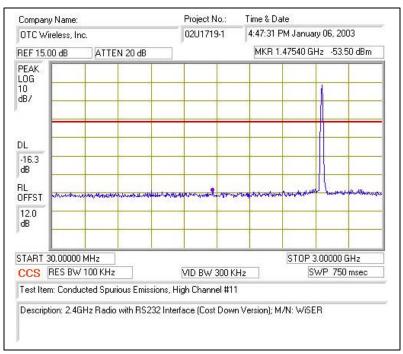
Compar	ny Name:			Project No.:	Time &	Fime & Date				
OTCW	ireless, Inc.			02U1719-1	4:44:0	4:44:05 PM January 06, 2003				
REF 15.	00 dB	ATTEN	20 dB		MKR	MKR 1.67835 GHz -54.83 dBm				
PEAK LOG 10 dB/										
DL						-				
-16.3 dB										
RL OFFST	Aparthograph	-	dumminet and	proper front was be applied	and and a second se	when the sheet when	harmo	to all states		
12.0 dB						- <mark>2 - 3</mark>				
START	30.00000 M	IHz						STOP 3.00000 GHz		
CCS	CS RES BW 100 KHz			VID BW 300 K	SWP 750 msec					
				s, Mid Channel #6						
Descrip	tion: 2.4GH	z Radio w	ith RS232 I	nterface (Cost Dowi	n Version);	M/N: WiSE	R			



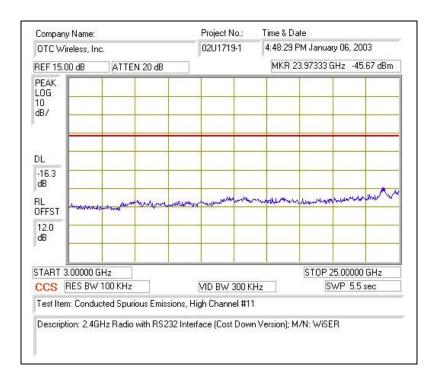
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#### High Channel:





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# 8.6. RADIATED EMISSIONS

## TEST SETUP

The EUT is placed on the wooden table. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4/2001.

The EUT is set to transmit in a continuous mode.

## TEST PROCEDURE

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz, the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels within the 2.4 GHz band.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels within the 5.8 GHz band.

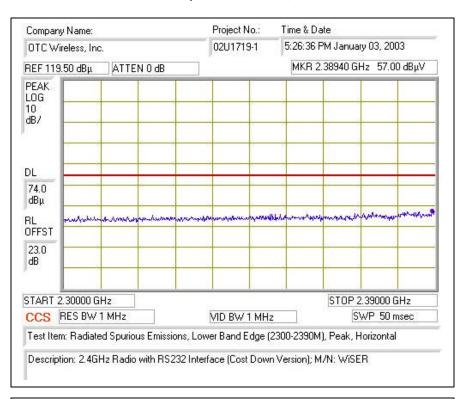
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The frequency span is set small enough to easily differentiate between broadcast stations, intermittent ambient signals and EUT emissions. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the suspected signal. Measurements were made with the antenna polarized in both the vertical and the horizontal positions.

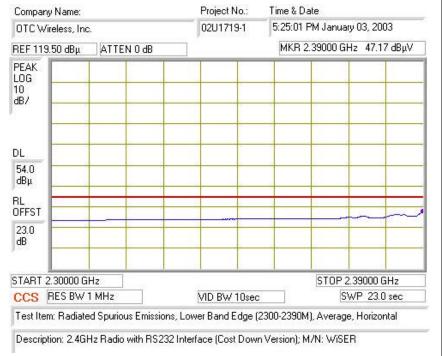
## TEST RESULTS

No non-compliance noted:

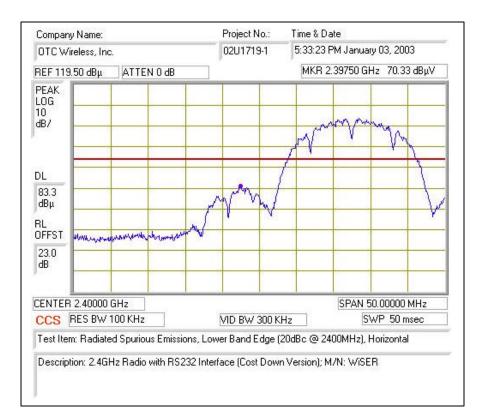
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## BAND EDGE RADIATED EMISSIONS (LOW CHANNEL, HORIZONTAL POLARIZATION)



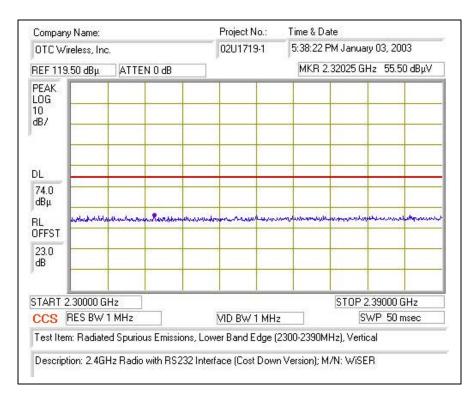


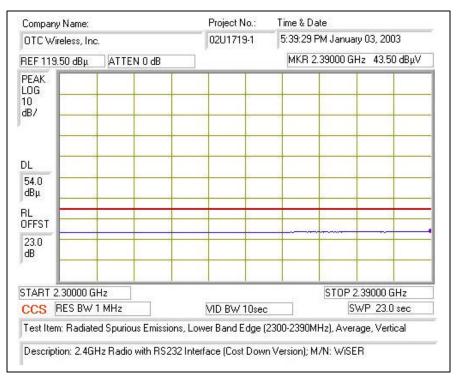
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#### BAND EDGE RADIATED EMISSIONS (LOW CHANNEL, VERTICAL POLARIZATION)

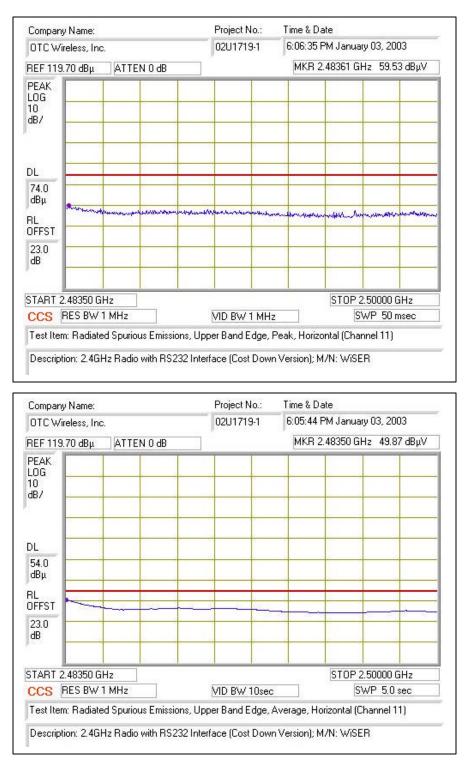






COMPLIANCE CERTIFICATION SERVICES

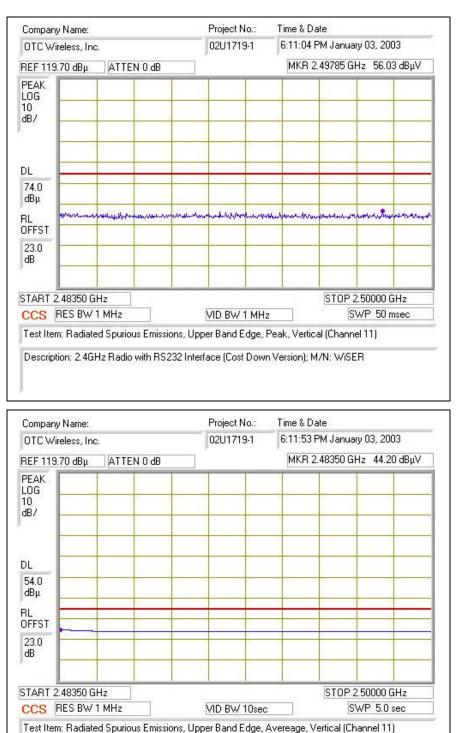
## BAND EDGE RADIATED EMISSIONS (HIGH CHANNEL, HORIZONTAL POLARIZATION)





#### COMPLIANCE CERTIFICATION SERVICES

# BAND EDGE RADIATED EMISSIONS (HIGH CHANNEL, VERTICAL POLARIZATION)

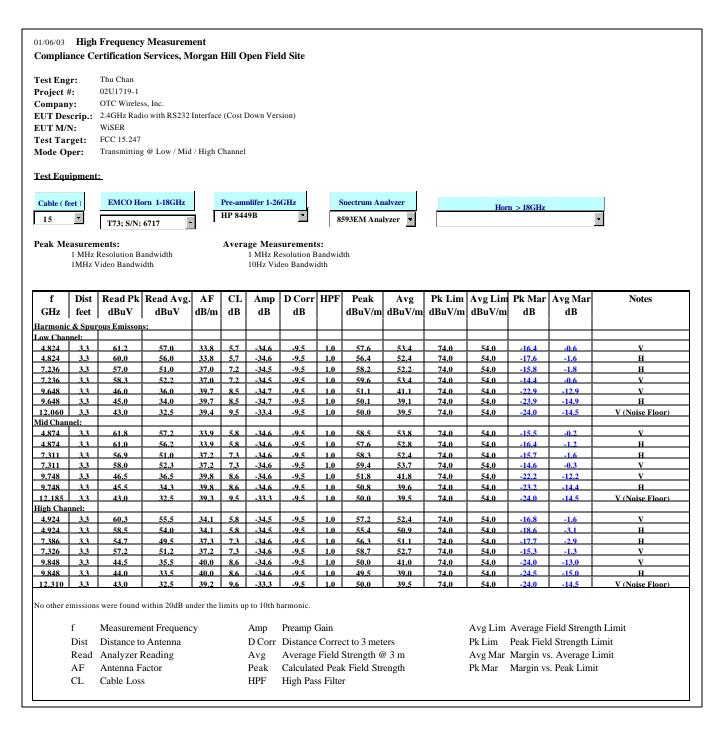


Description: 2.4GHz Radio with RS232 Interface (Cost Down Version); M/N: WISER.

COMPLIANCE CERTIFICATION SERVICESDOCUMENT NO: CCSUP4031A561F MONTEREY ROAD, MORGAN HILL, CA 95037 USATEL: (408) 463-0885 FAX: (408) 463-0888This report shall not be reproduced except in full, without the written approval of CCS. This document may<br/>be altered or revised by Compliance Certification Services personnel only, and shall be noted in the<br/>revision section of the document.

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## HARMONIC AND SPURIOUS RADIATED EMISSIONS



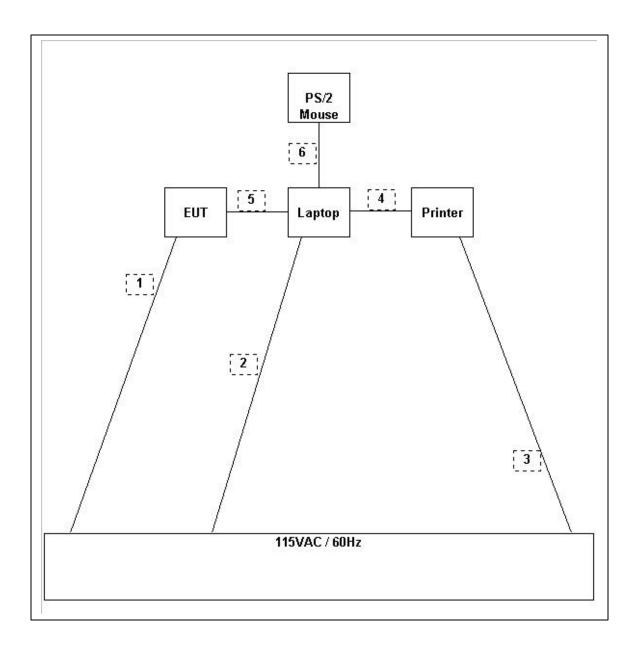
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COMPLIANCE CERTIFICATION SERVICES

### DIGITAL DEVICE RADIATED EMISSIONS

	FC	ertific	ation	Servio Servio	ces		Rep Date&	ort #: Time:	02U1719 030107B 01/07/03 Thu Cha	1 9:45 AM	- - -
	561F MON PHONE: (4			N JOSE, 0 FAX: (408)	CA 95037-90 463-0888	)					
	Test Cor	Descrip Ifigura Type of	tion : Test:	2.4GHz EUT/Lap FCC Cla	reless, Inc Radio with ptop/Mode ass B mitting Mod	RS232 I m/Printer		(Cost Do	own Versi	ion)	- - -
									<<	Main Sheet	
Freq.	Reading (dBuV)	AF (dB)		Pre-amp		Limit FN B	Margin (dB)		Az (Deg)	Height (Meter)	Mark
(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	EN_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
(MHz) 132.00											
(MHz) 132.00 144.00	(dBuV) 43.00	(dB) 11.40	(dB) 2.85	(dB) 28.34	(dBuV/m) 28.91	EN_B 30.00	(dB) -1.09	(H/V) 10mV	(Deg) 0.00	(Meter) 1.00	(P/Q/A) P
(MHz) 132.00 144.00 44.00	(dBuV) 43.00 43.50	(dB) 11.40 10.78	(dB) 2.85 2.93	(dB) 28.34 28.30	(dBuV/m) 28.91 28.91	EN_B 30.00 30.00	(dB) -1.09 -1.09	(H/V) 10mV 10mV	(Deg) 0.00 0.00	(Meter) 1.00 1.00	(P/Q/A) P P
(MHz) 132.00 144.00 44.00 132.00	(dBuV) 43.00 43.50 44.00	(dB) 11.40 10.78 10.89	(dB) 2.85 2.93 1.80	(dB) 28.34 28.30 28.52	(dBuV/m) 28.91 28.91 28.17	EN_B 30.00 30.00 30.00	(dB) -1.09 -1.09 -1.83	(H/V) 10mV 10mV 10mV	(Deg) 0.00 0.00 0.00	(Meter) 1.00 1.00 1.00	(P/Q/A P P P
	(dBuV) 43.00 43.50 44.00 40.00	(dB) 11.40 10.78 10.89 11.40	(dB) 2.85 2.93 1.80 2.85	(dB) 28.34 28.30 28.52 28.34	(dBuV/m) 28.91 28.91 28.17 25.91	EN_B 30.00 30.00 30.00 30.00	(dB) -1.09 -1.09 -1.83 -4.09	(H/V) 10mV 10mV 10mV 10mH	(Deg) 0.00 0.00 0.00 0.00	(Meter) 1.00 1.00 1.00 2.00	(P/Q/A) P P P P

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## TEST PROCEDURE

The resolution bandwidth is set to 10 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

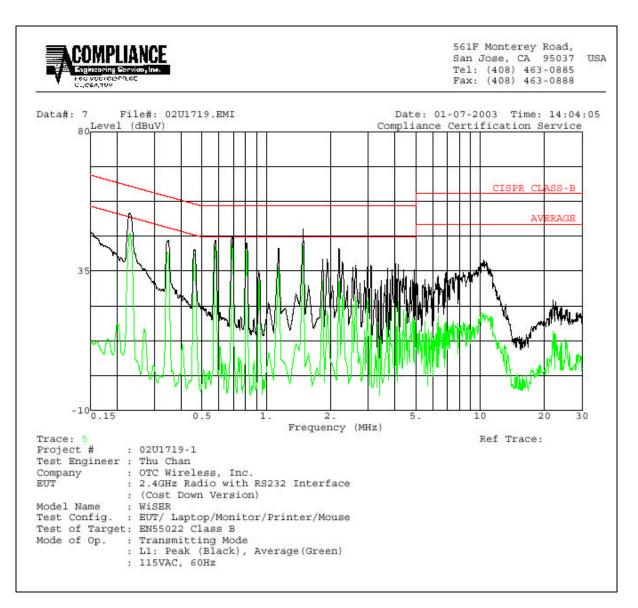
## **RESULTS**

No non-compliance noted:

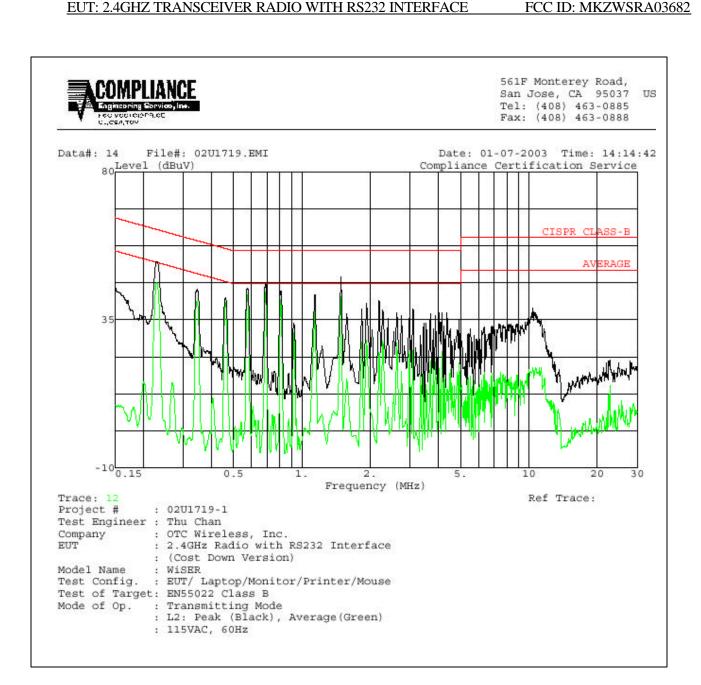
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	( <b>dB</b> )	QP	AV	QP (dB)	AV (dB)	L1/L2
0.23	53.63	47.13		0.00	63.71	53.71	-16.58	-6.58	L1
0.69	46.10	42.95		0.00	56.00	46.00	-13.05	-3.05	L1
1.49	48.70	43.31		0.00	56.00	46.00	-12.69	-2.69	L1
0.23	52.78	46.45		0.00	63.74	53.74	-17.29	-7.29	L2
0.70	45.70	43.36		0.00	56.00	46.00	-12.64	-2.64	L2
1.49	47.92	42.03		0.00	56.00	46.00	-13.97	-3.97	L2

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