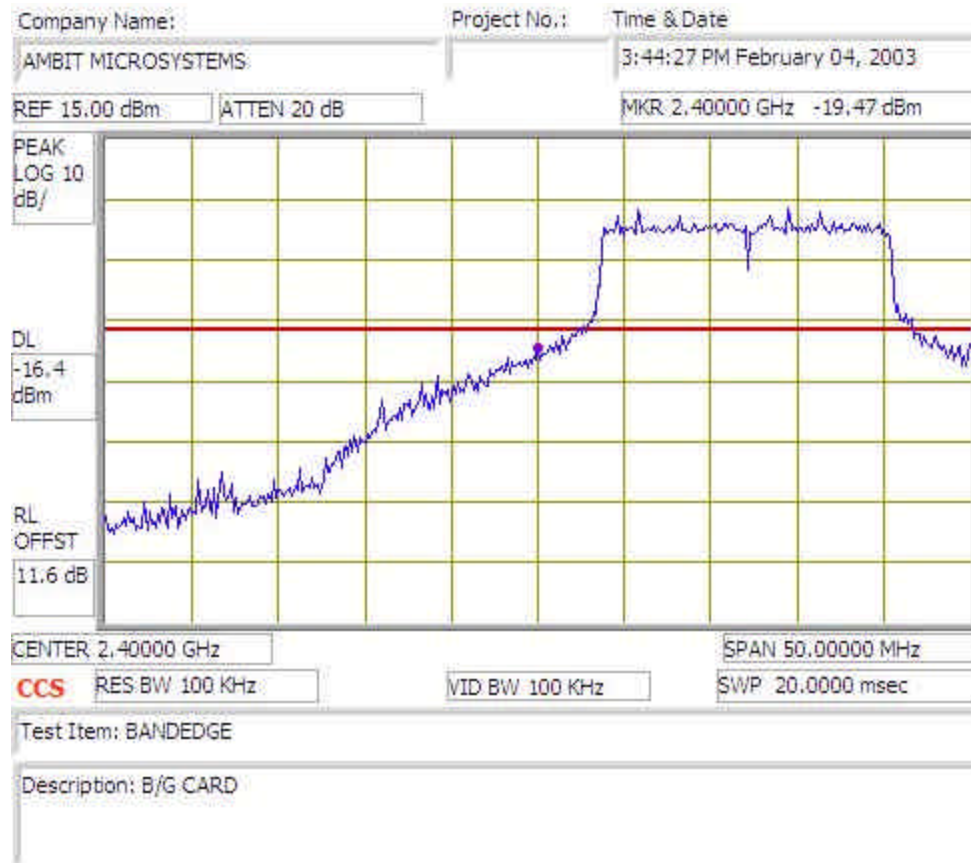
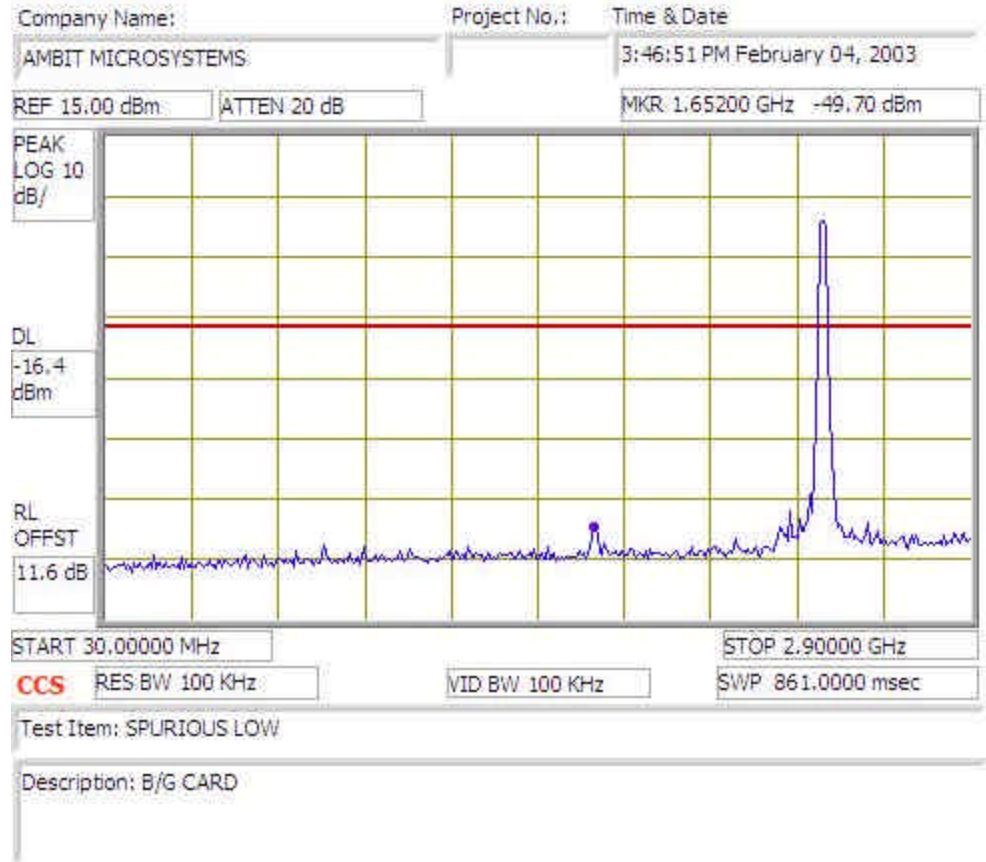
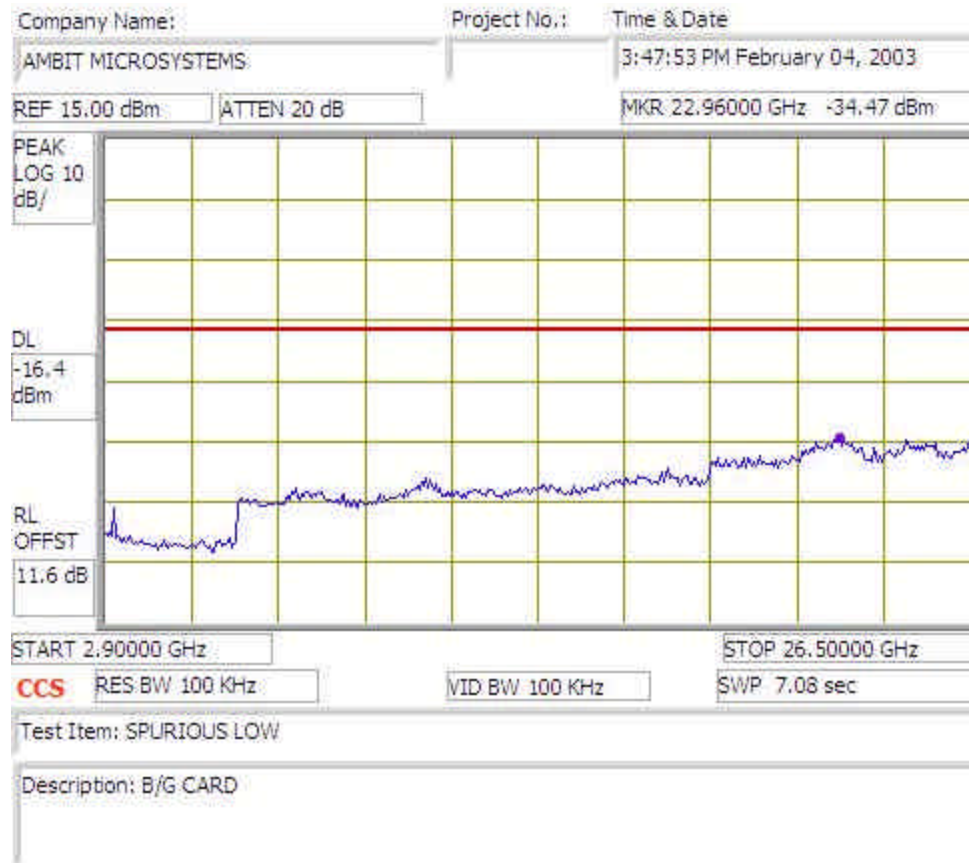


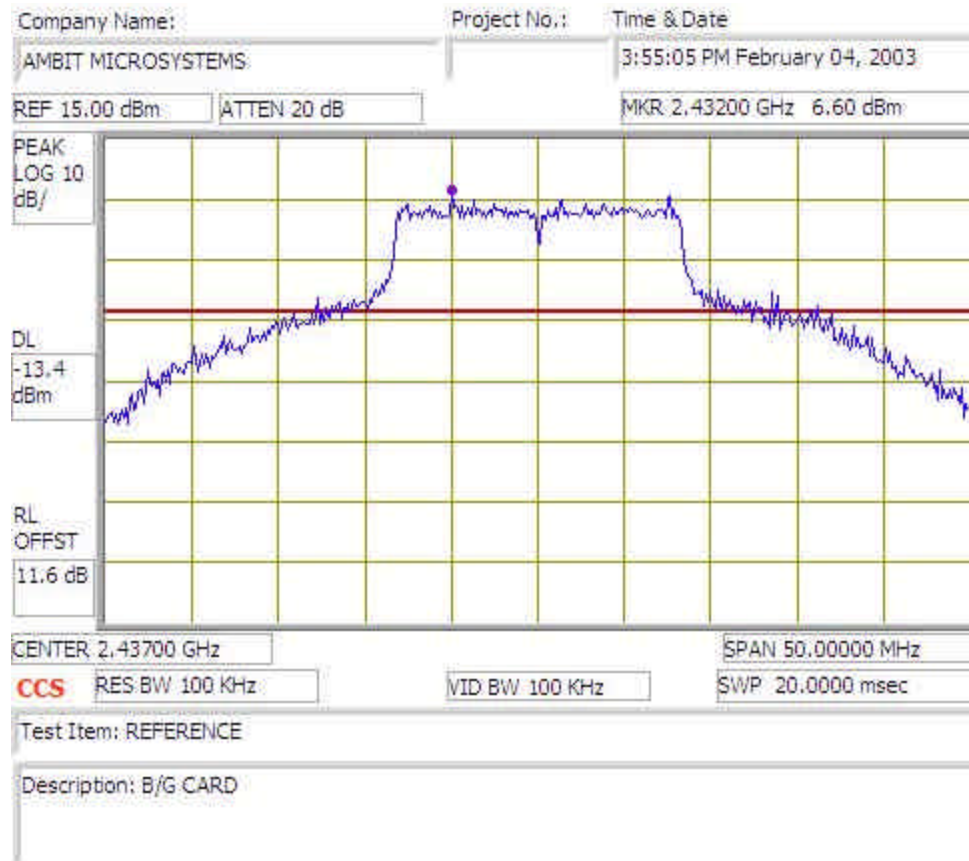
**CONDUCTED SPURIOUS EMISSIONS (2.4 GHZ g BAND)**

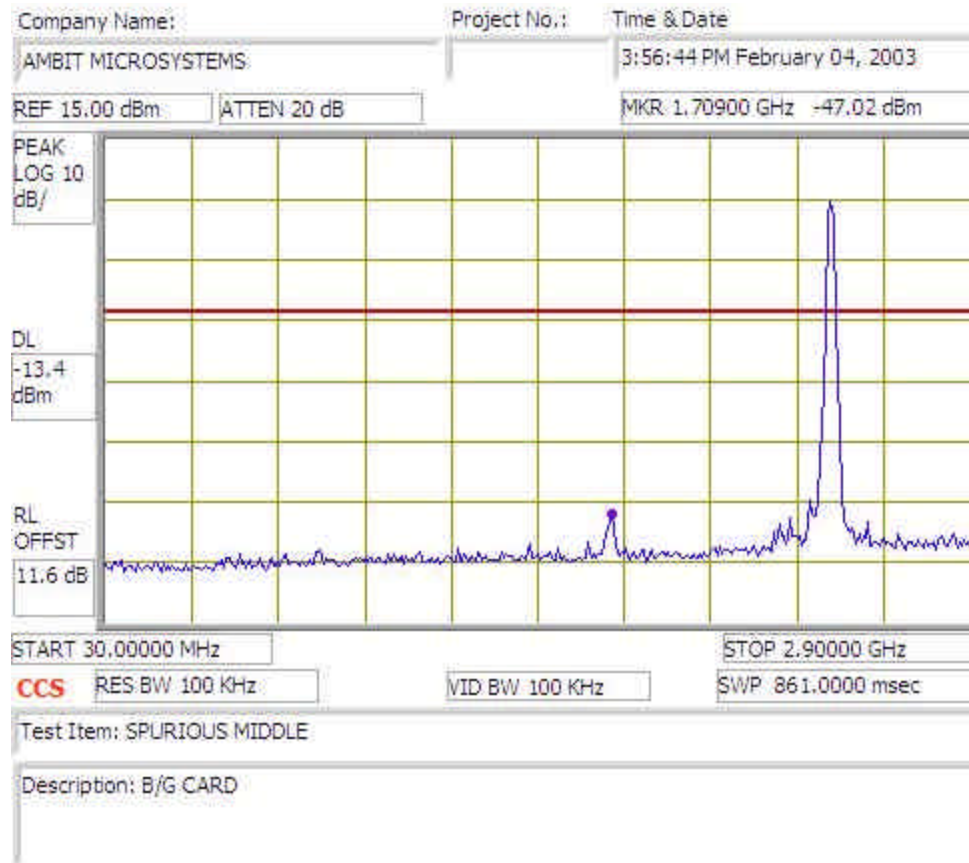
2.412GHz

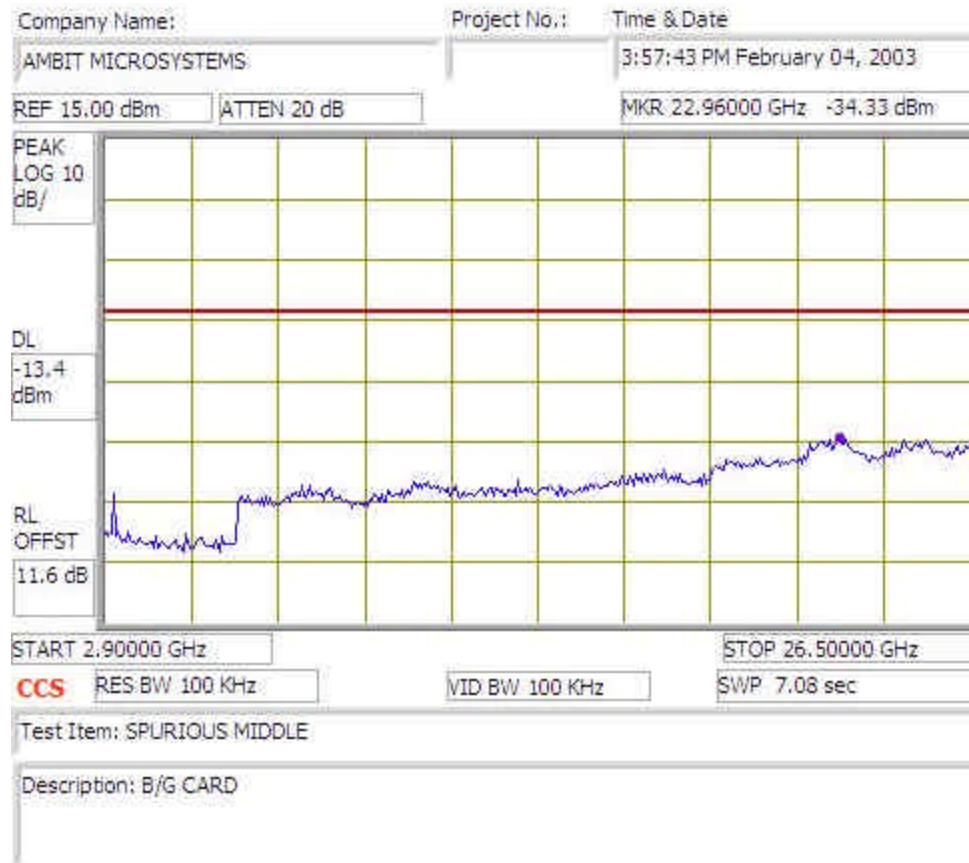


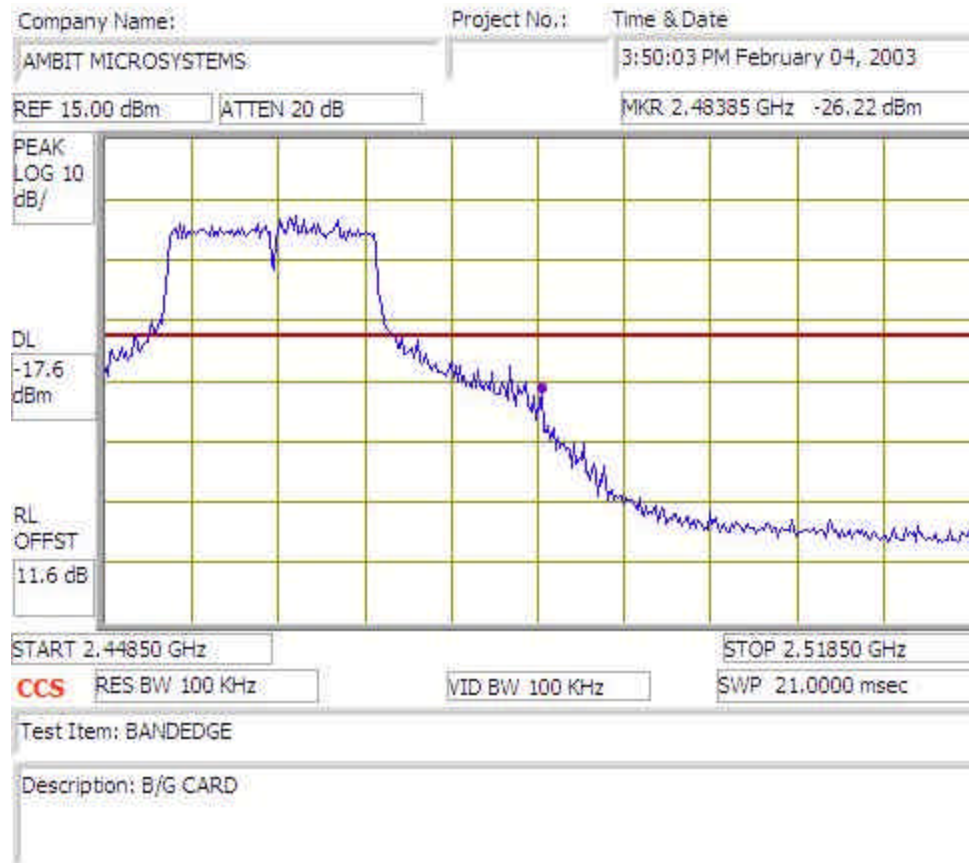




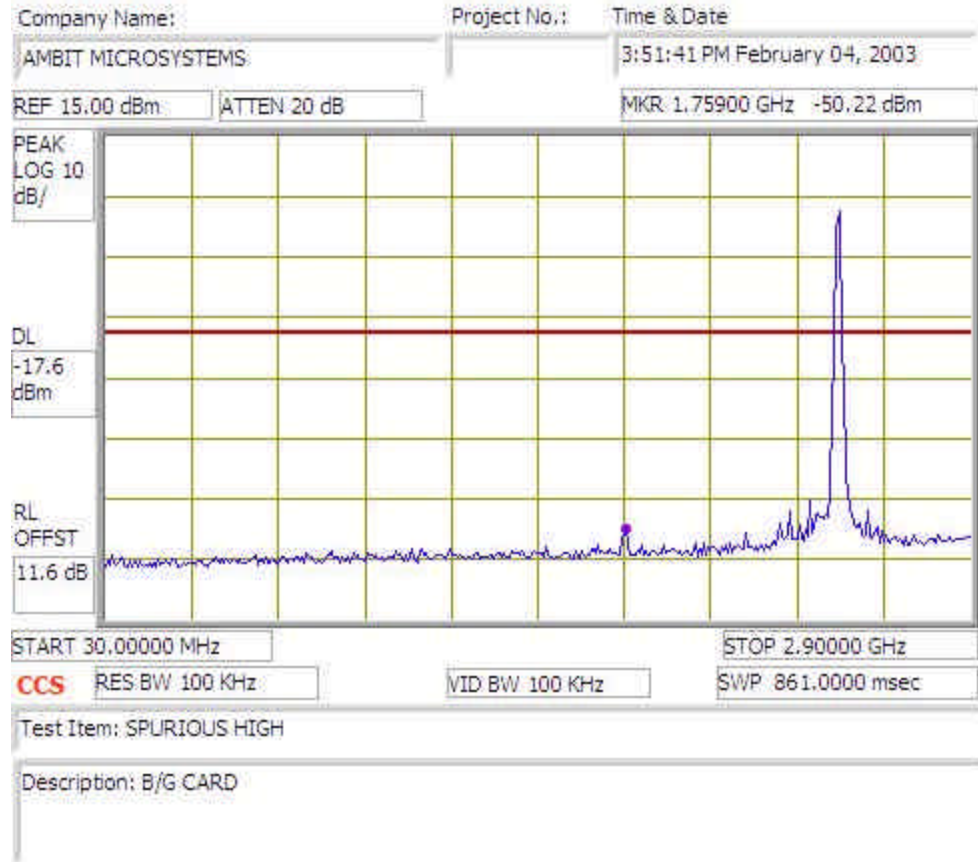




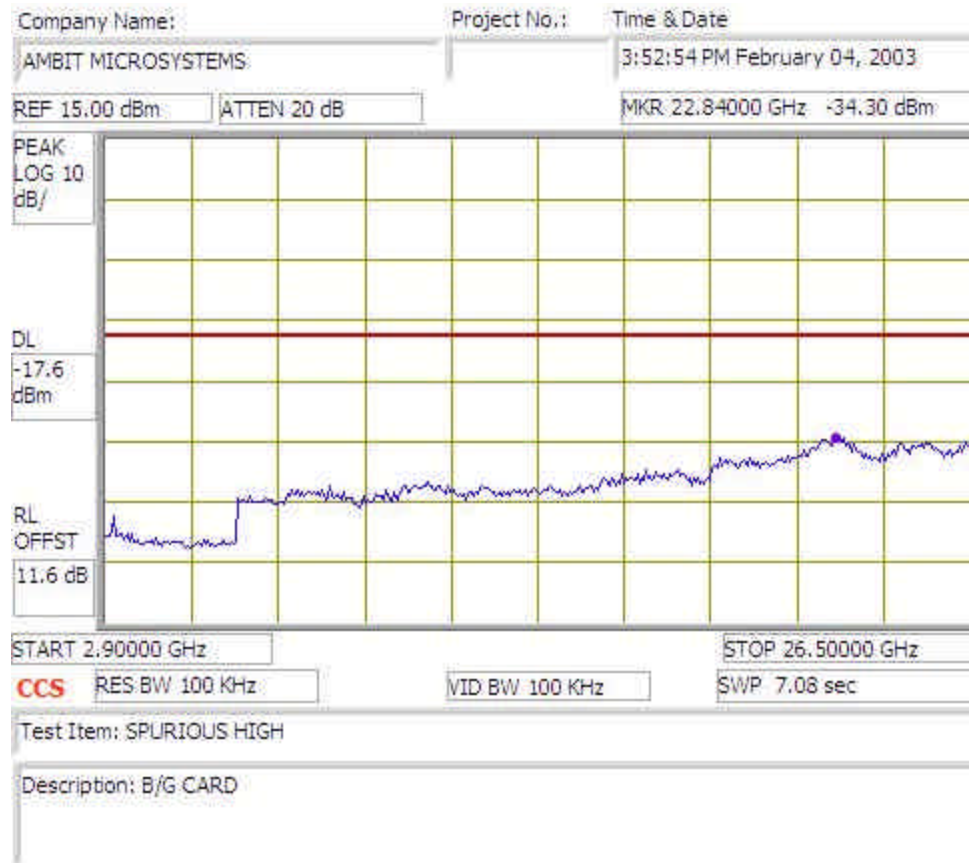




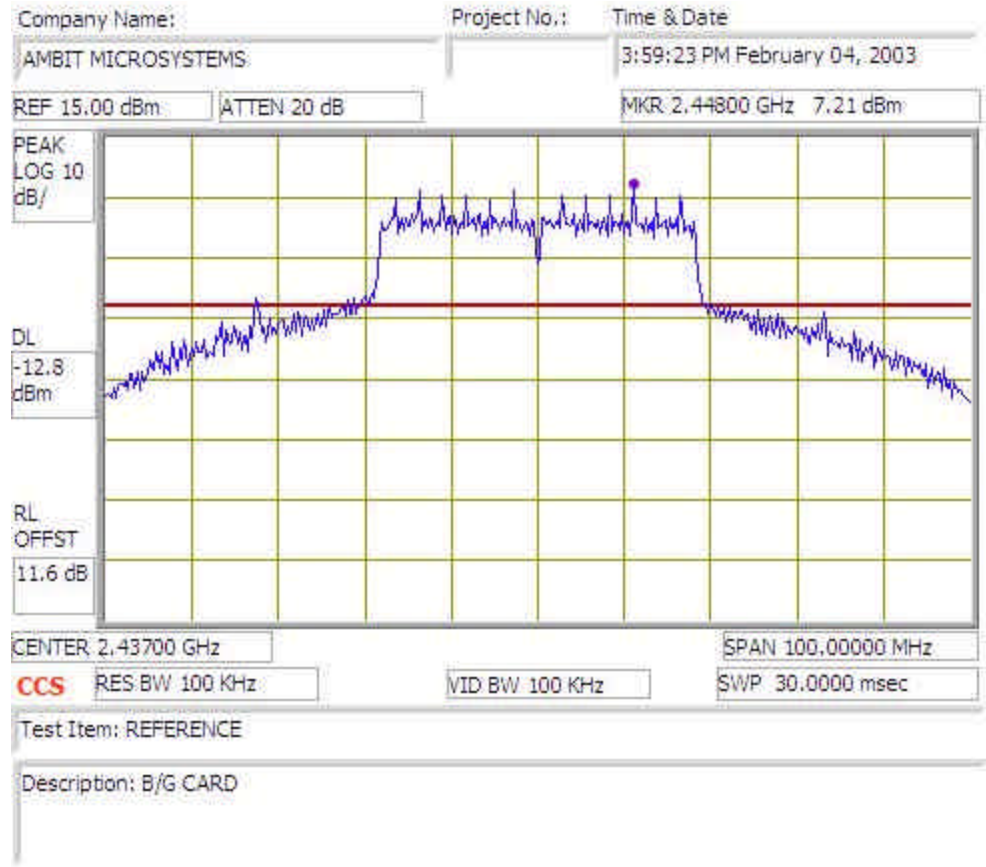


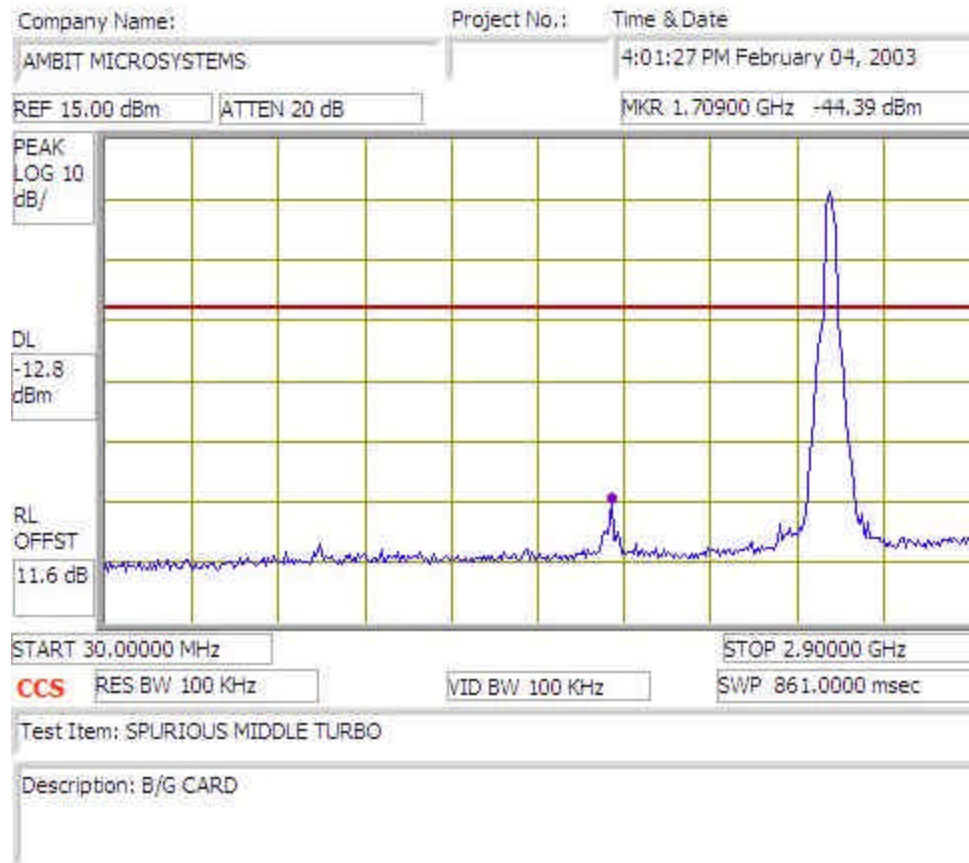


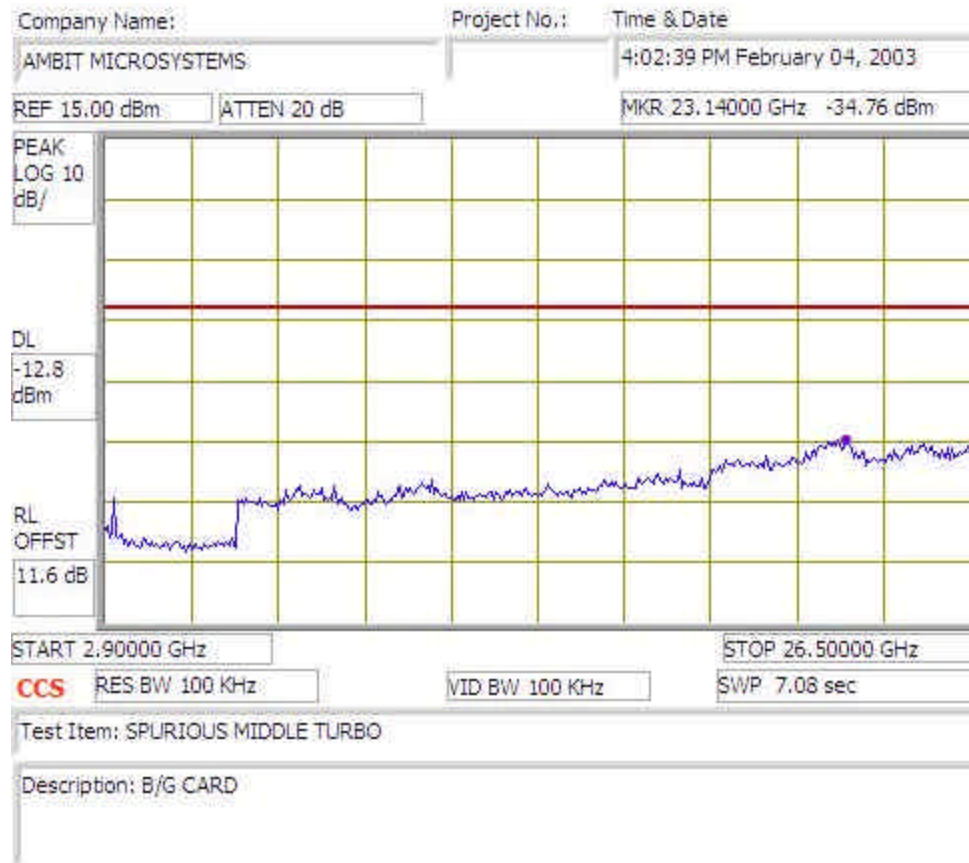




**CONDUCTED SPURIOUS EMISSIONS (2.4 GHZ g BAND, TURBO MODE)**







## **8.7. 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 C63.4/1992.

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.

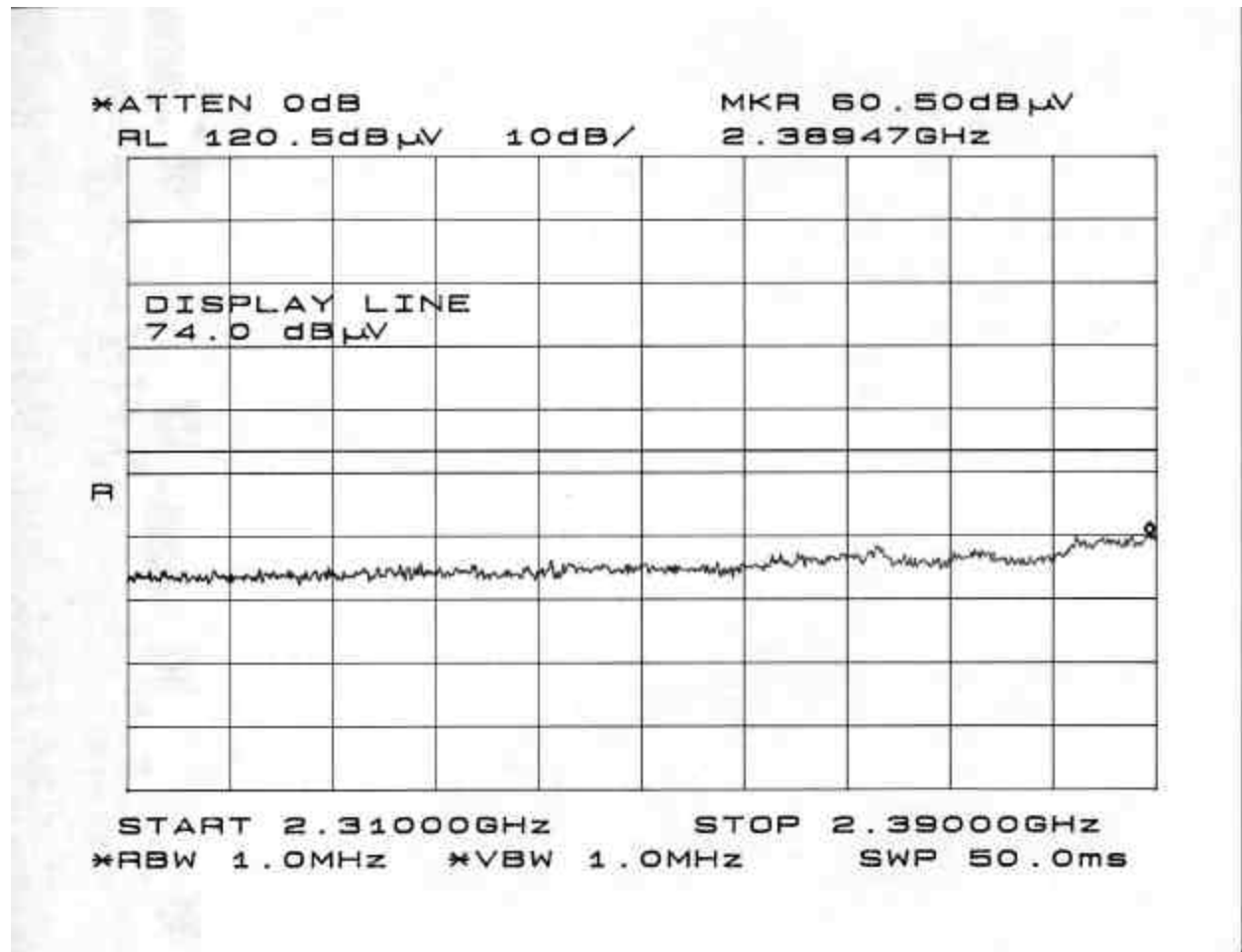
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels within the 2.4 GHz band.

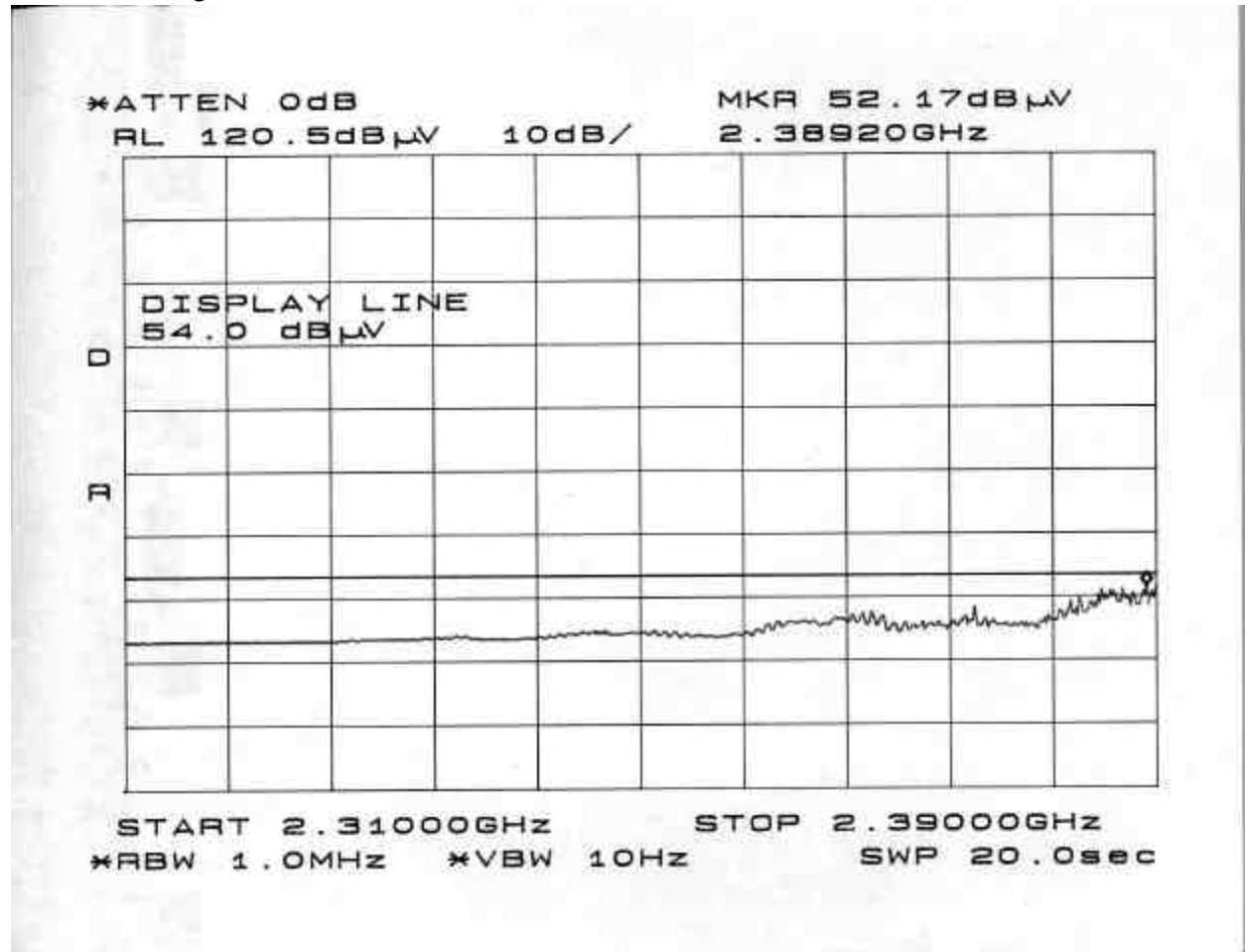
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The frequency span is set small enough to easily differentiate between broadcast stations, intermittent ambient signals and EUT emissions. The EUT is rotated through 360 degrees to maximize emissions received. The 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:

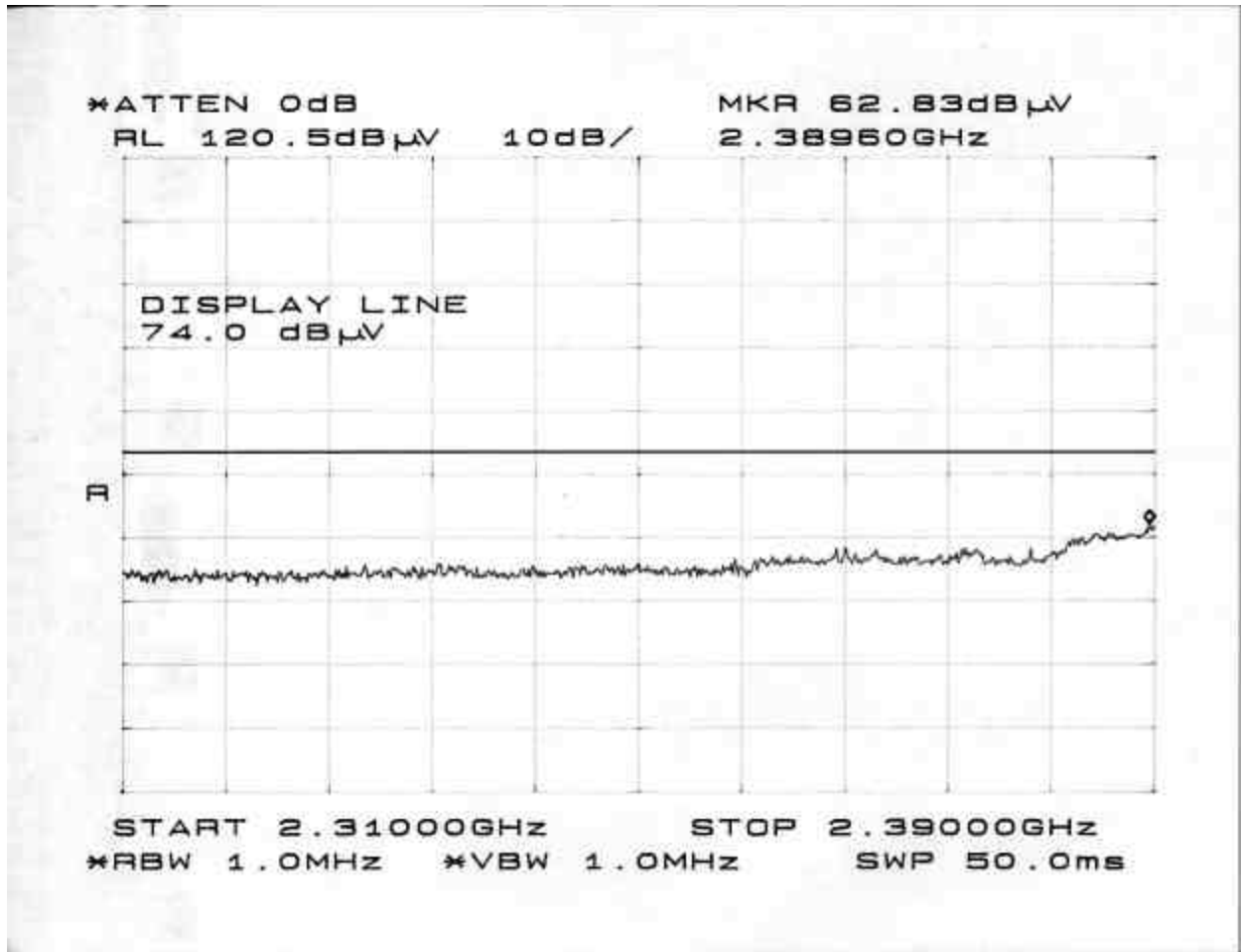
**RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, HORIZONTAL POLARIZATION)  
(B MODE)**

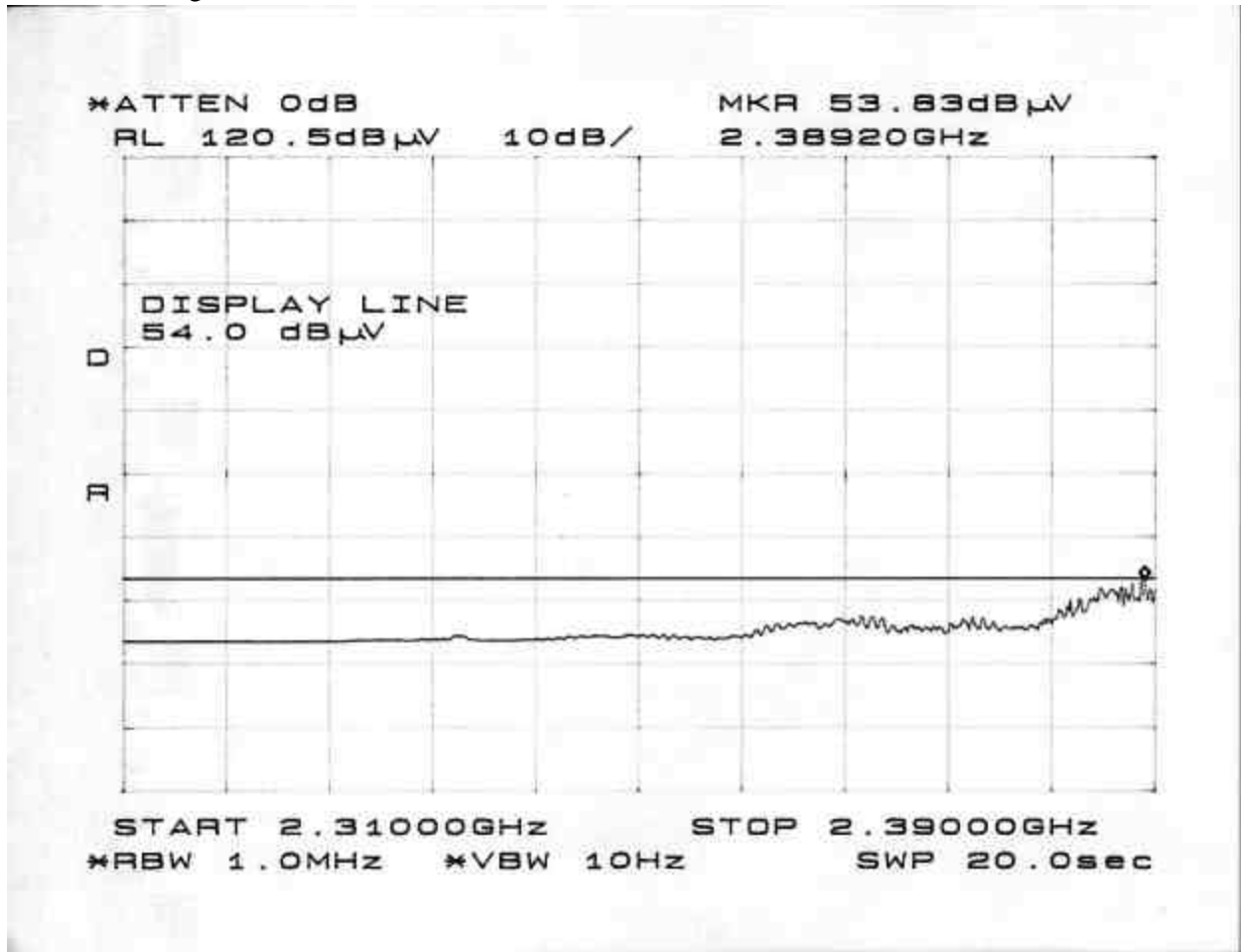




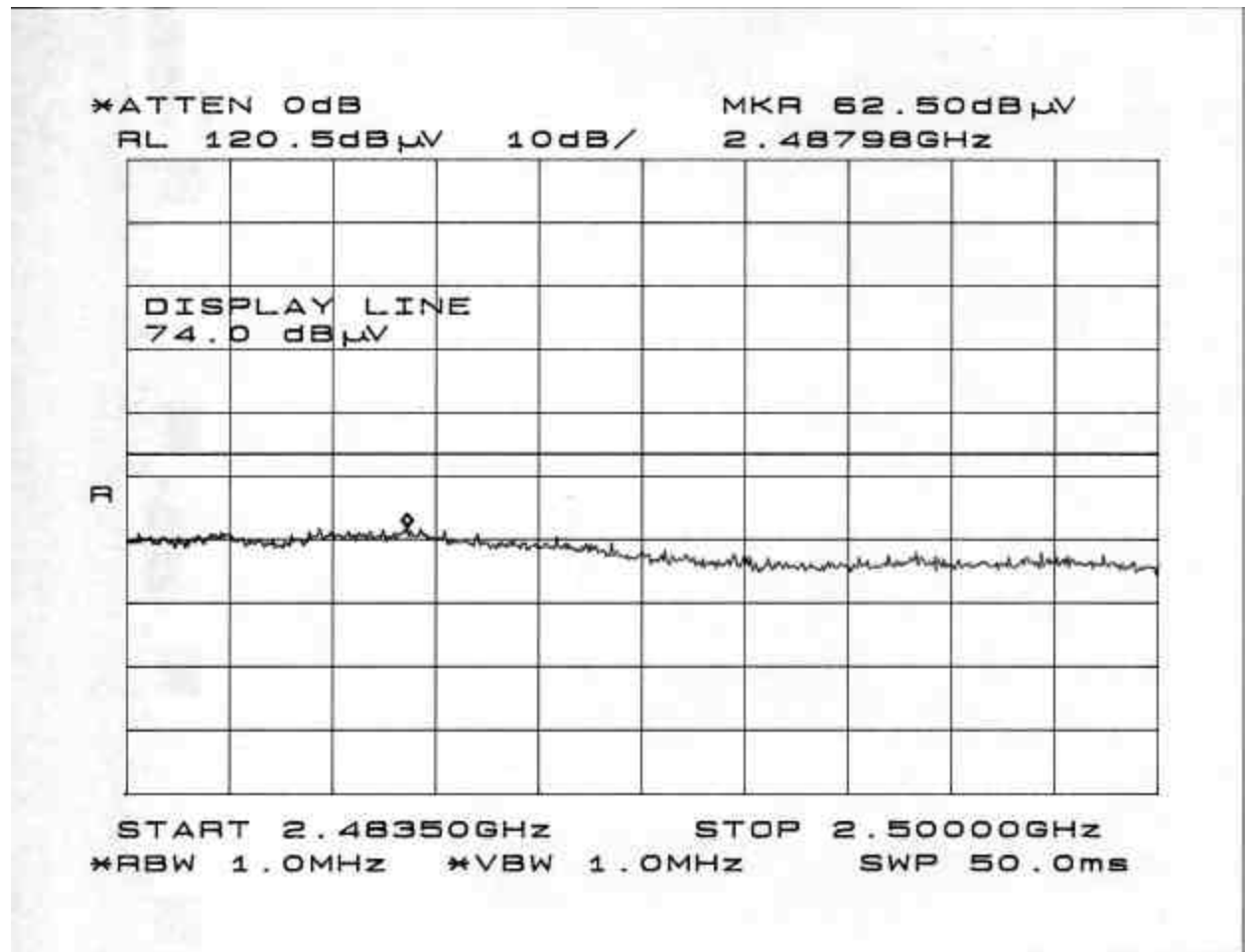


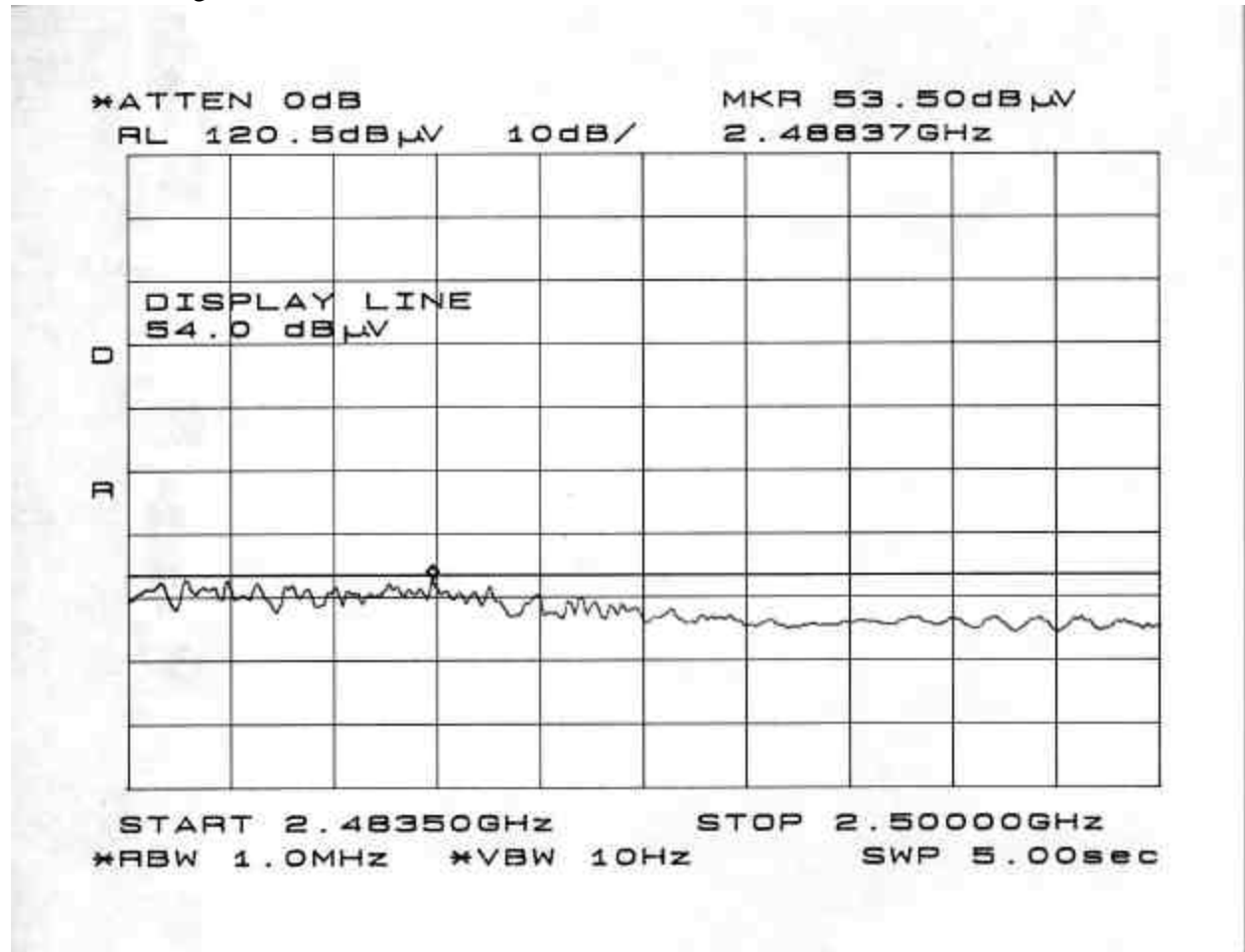
**RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, VERTICAL POLARIZATION)**  
**(B MODE)**



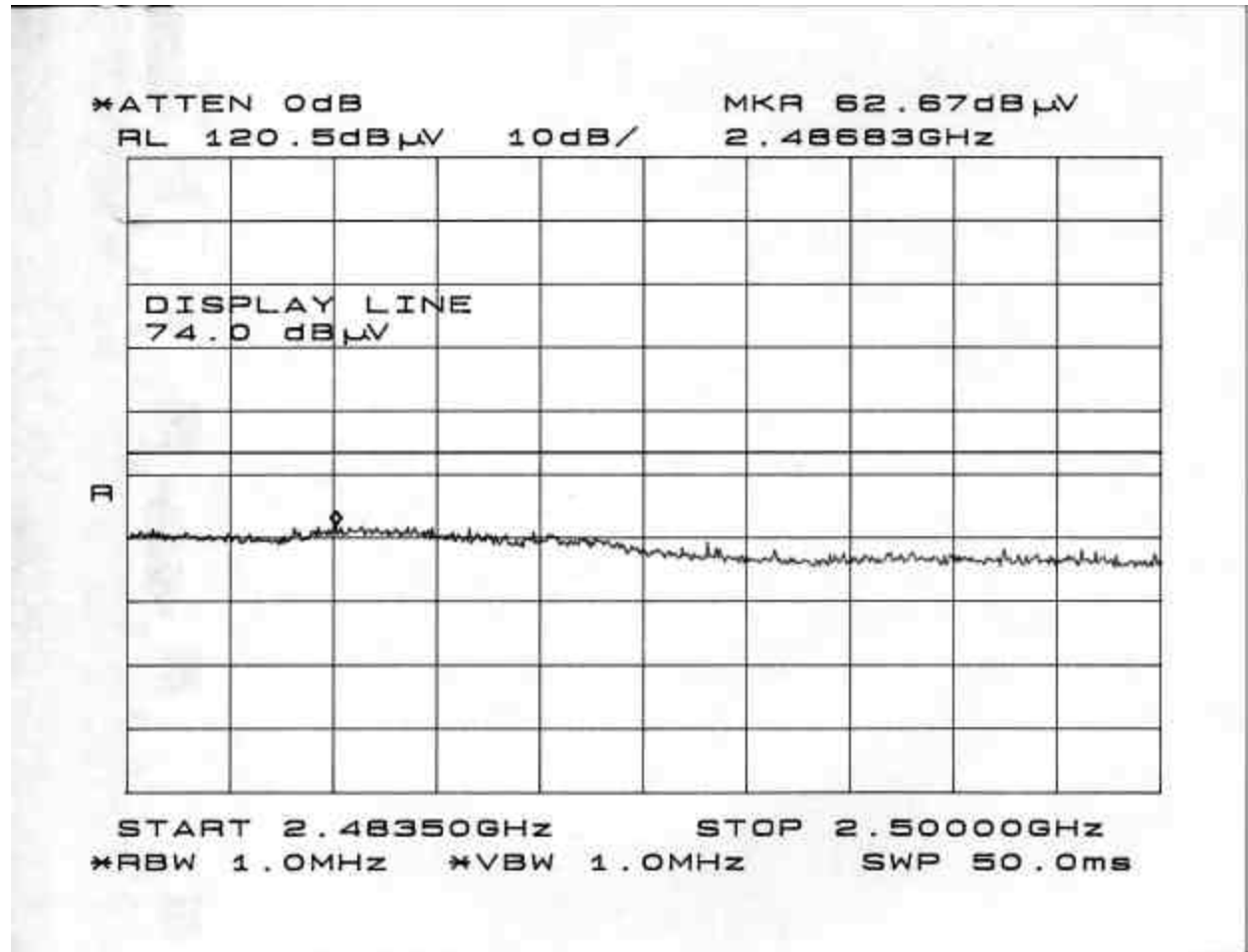


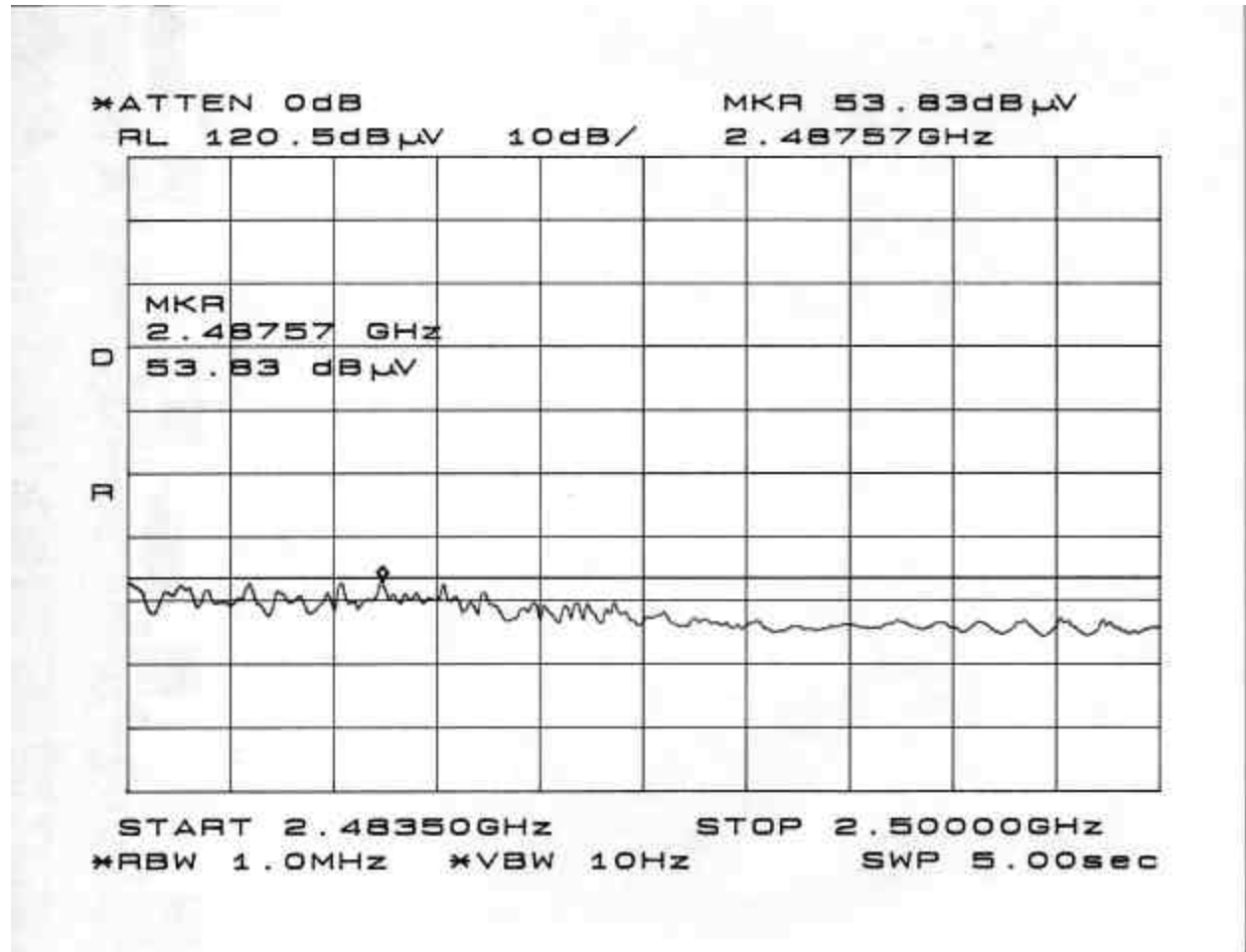
**RESTRICTED BAND RADIATED EMISSIONS (HIGH CHANNEL, HORIZONTAL POLARIZATION)  
(B MODE)**





**RESTRICTED BAND RADIATED EMISSIONS (HIGH CHANNEL, VERTICAL POLARIZATION)  
(B MODE)**



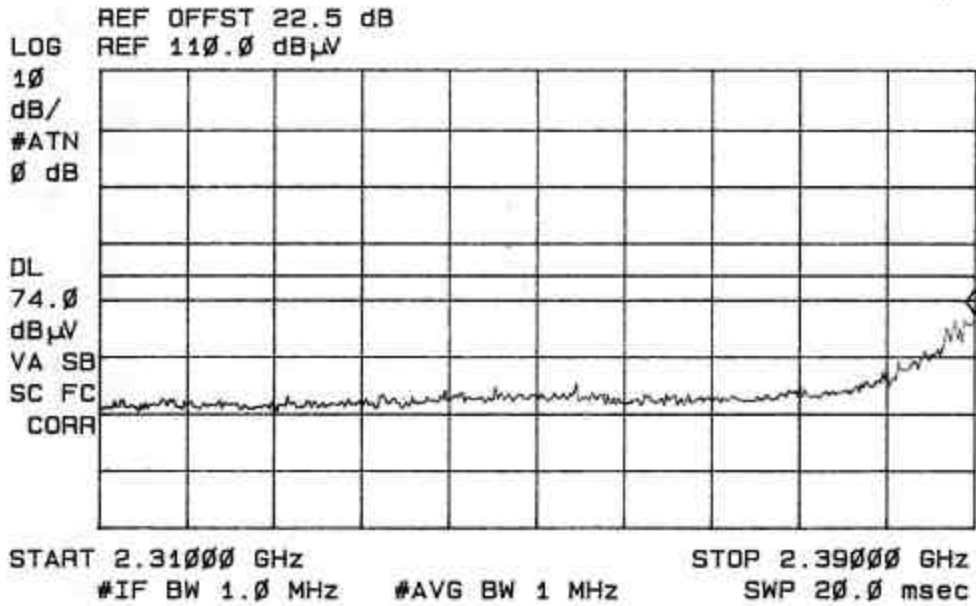


**RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, HORIZONTAL POLARIZATION)  
(G MODE)**

10: 44: 25 JAN 09, 2003

STOP  
2.39000 GHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.39000 GHz  
67.25 dB $\mu$ W

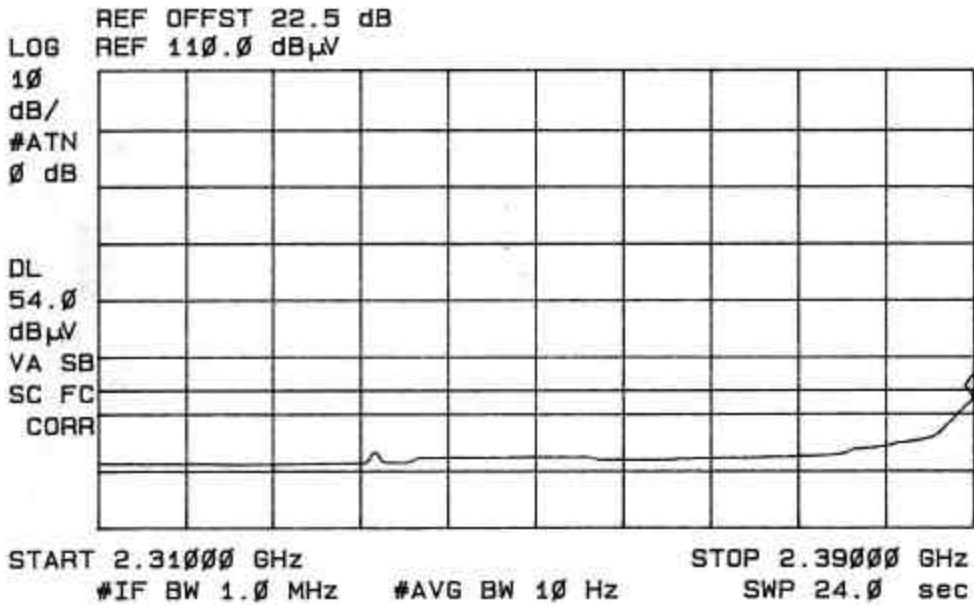




10: 47: 50 JAN 09, 2003

DISPLAY LINE  
54.0 dB $\mu$ W

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.39000 GHz  
52.55 dB $\mu$ W



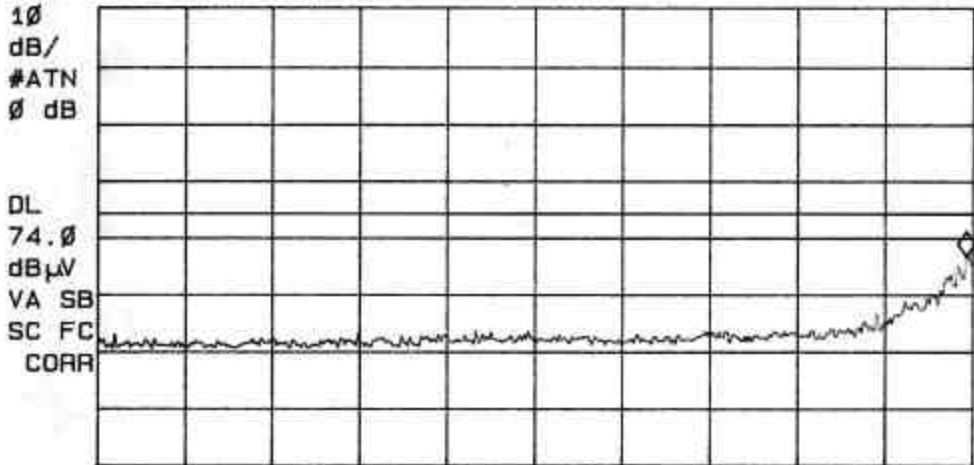
**RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, VERTICAL POLARIZATION)**  
**(G MODE)**

10:39:07 JAN 09, 2003

DISPLAY LINE  
74.0 dBμV

ACTV DET: PEAK  
MEAS DET: PEAK GP AVG  
MKR 2.38940 GHz  
66.50 dBμV

LOG REF OFFST 22.5 dB  
REF 110.0 dBμV

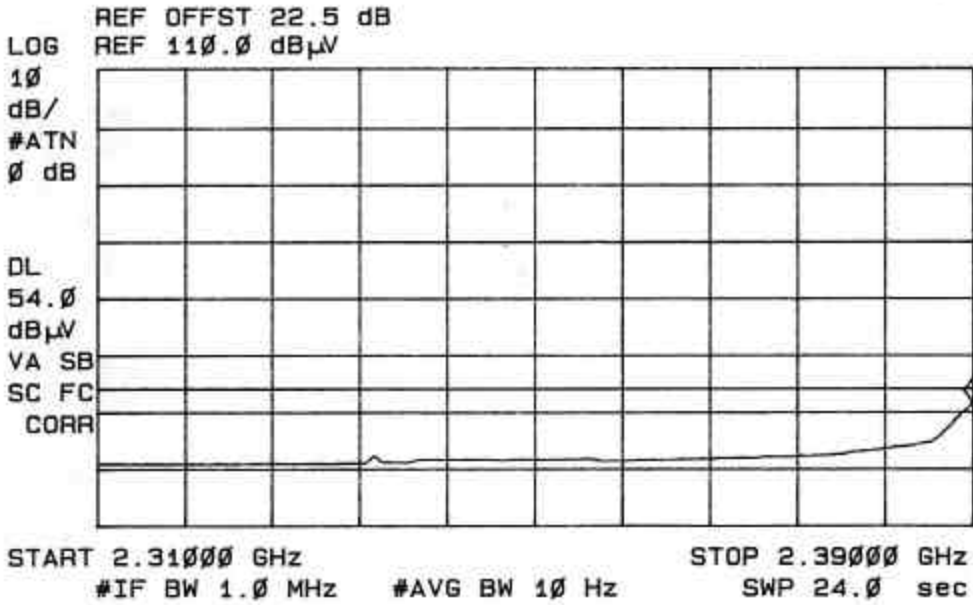


START 2.31000 GHz      STOP 2.39000 GHz  
#IF BW 1.0 MHz      #AVG BW 1 MHz      SWP 20.0 msec

10:36:00 JAN 09, 2003

DISPLAY LINE  
54.0 dB $\mu$ W

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.39000 GHz  
51.38 dB $\mu$ W

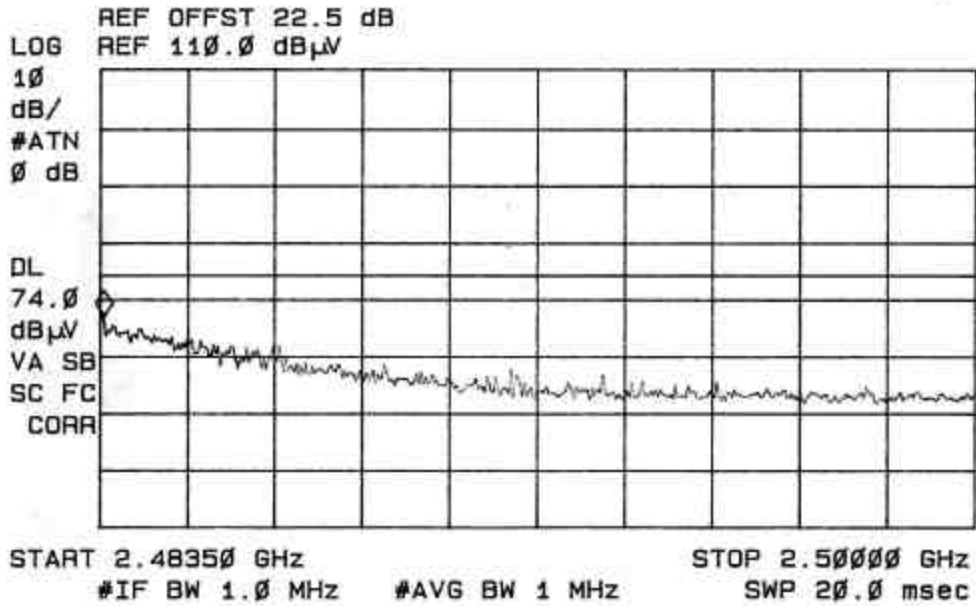


**RESTRICTED BAND RADIATED EMISSIONS (HIGH CHANNEL, HORIZONTAL POLARIZATION)  
(G MODE)**

10: 26: 03 JAN 09, 2003

DISPLAY LINE  
74.0 dBμV

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.48358 GHz  
66.89 dBμV

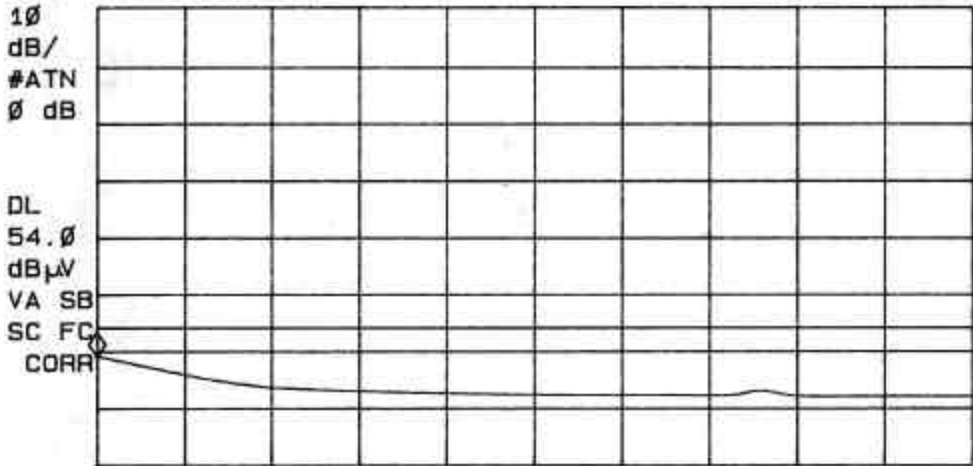


10:28:58 JAN 09, 2003

DISPLAY LINE  
54.0 dBμW

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.48350 GHz  
48.87 dBμW

REF OFFST 22.5 dB  
LOG REF 110.0 dBμW



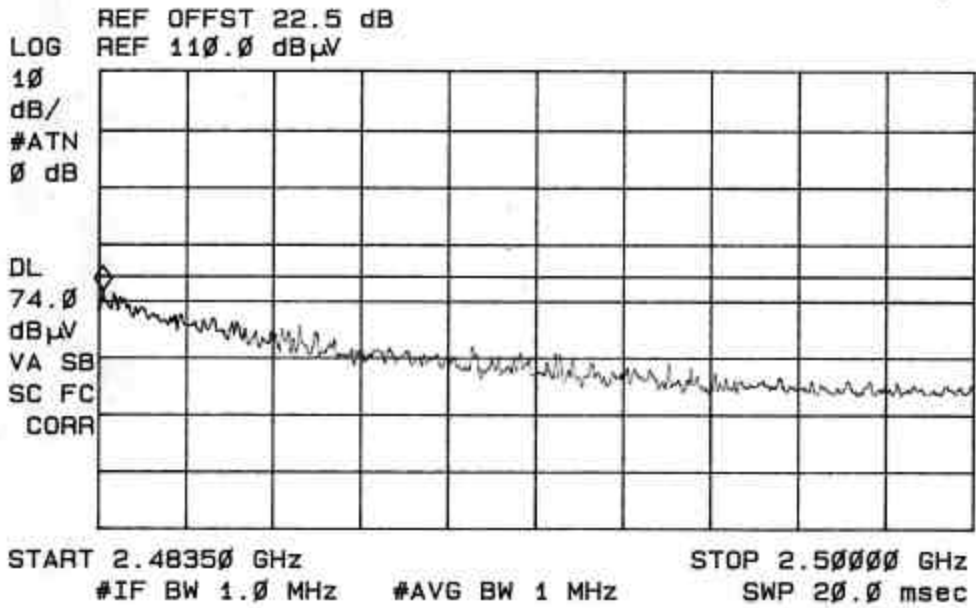
START 2.48350 GHz STOP 2.50000 GHz  
#IF BW 1.0 MHz #AVG BW 10 Hz SWP 5.00 sec

**RESTRICTED BAND RADIATED EMISSIONS (HIGH CHANNEL, VERTICAL POLARIZATION)  
(G MODE)**

10: 17: 40 JAN 09, 2003

DISPLAY LINE  
74.0 dBμV

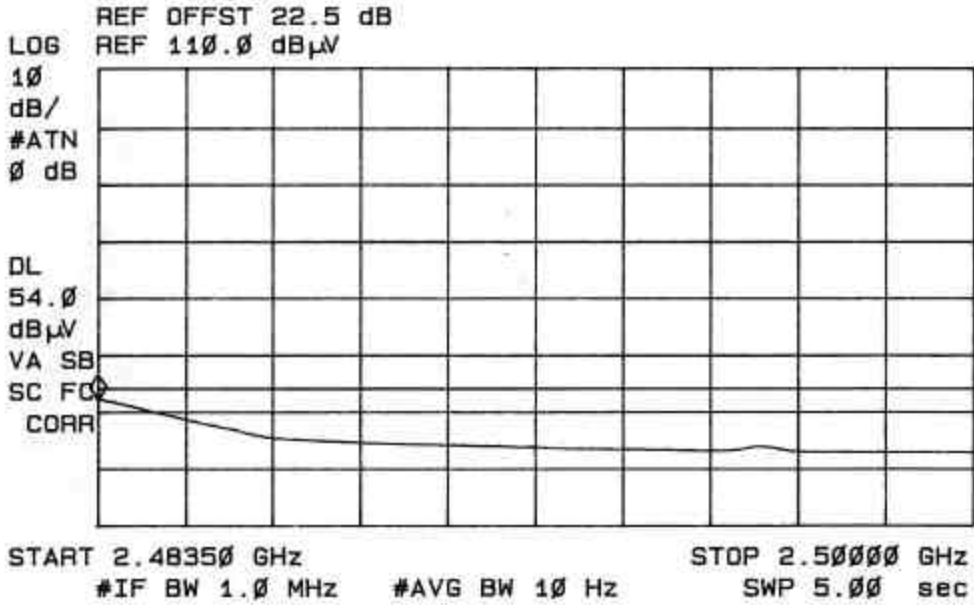
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.48358 GHz  
71.46 dBμV



10: 20: 40 JAN 09, 2003

DISPLAY LINE  
54.0 dBμV

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.48350 GHz  
51.99 dBμV





**HARMONIC AND SPURIOUS RADIATED EMISSIONS (B MODE)**

2.412GHz

01/06/03 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Frank Ibrahim  
 Project #: 02U1750-1  
 Company: AMBITMICROSYSTEMS  
 EUT Descrip.: 802.11 B/G MINI PCI CARD  
 EUT M/N: B/G CARD  
 Test Target: FCC  
 Mode Oper: 11b Base Mode, Fund = 2.412 GHz

Test Equipment:

Cable (feet)	EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
15	T72; S/N: 6739	Miteq NSP2600-44	8564E Analyzer	T87; ARA 18-26GHz; S/N:1049

Peak Measurements: 1 MHz Resolution Bandwidth  
 1 MHz Video Bandwidth  
 Average Measurements: 1 MHz Resolution Bandwidth  
 10 Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
4.824	9.8	44.2	41.8	33.9	5.7	-36.1	0.0	1.0	48.7	46.3	74.0	54.0	-25.3	-7.7	V
4.824	9.8	46.1	33.8	33.9	5.7	-36.1	0.0	1.0	50.6	38.3	74.0	54.0	-23.4	-15.7	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WERE DETECTED ABOVE THE NOISE FLOOR															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

01/06/03 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Frank Ibrahim  
 Project #: 02U1750-1  
 Company: AMBIT MICROSYSTEMS  
 EUT Descr.: 802.11 B/G MINI PCI CARD  
 EUT M/N: B/G CARD  
 Test Target: FCC  
 Mode Oper: 11b Base Mode, Fund = 2.437 GHz

Test Equipment:

Cable (feet) 15	EMCO Horn 1-18GHz T72; S/N: 6739	Pre-amplifier 1-26GHz Miteq NSP2600-44	Spectrum Analyzer 8564E Analyzer	Horn > 18GHz T87; ARA 18-26GHz; S/N:1049
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Peak Measurements: 1 MHz Resolution Bandwidth  
 1MHz Video Bandwidth  
 Average Measurements: 1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
4.874	9.8	48.5	47.3	34.0	5.8	-36.1	0.0	1.0	53.2	52.0	74.0	54.0	-20.8	-2.0	V
7.311	9.8	35.4	32.1	37.1	7.3	-36.3	0.0	1.0	44.5	41.2	74.0	54.0	-29.5	-12.8	V
4.874	9.8	38.8	34.2	34.0	5.8	-36.1	0.0	1.0	43.5	38.9	74.0	54.0	-30.5	-15.1	H
7.311	9.8	35.9	30.4	37.1	7.3	-36.3	0.0	1.0	45.0	39.5	74.0	54.0	-29.0	-14.5	H

NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WERE DETECTED ABOVE THE NOISE FLOOR

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

01/06/03 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Frank Ibrahim  
 Project #: 02U1750-1  
 Company: AMBIT MICROSYSTEMS  
 EUT Descrip.: 802.11 B/G MINI PCI CARD  
 EUT M/N: B/G CARD  
 Test Target: FCC  
 Mode Oper: 11b Base Mode, Fund = 2.462 GHz

Test Equipment:

Cable (feet) 15	EMCO Horn 1-18GHz T72; S/N: 6739	Pre-amplifier 1-26GHz Miteq NSP2600-44	Spectrum Analyzer 8564E Analyzer	Horn > 18GHz T87; ARA 18-26GHz; S/N:1049
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Peak Measurements: 1 MHz Resolution Bandwidth  
 1MHz Video Bandwidth  
 Average Measurements: 1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
4.924	9.8	48.5	45.6	34.2	5.8	-36.1	0.0	1.0	53.4	50.5	74.0	54.0	-20.6	-3.5	V
7.386	9.8	38.7	35.3	37.3	7.3	-36.2	0.0	1.0	48.0	44.6	74.0	54.0	-26.0	-9.4	V
4.924	9.8	40.5	35.9	34.2	5.8	-36.1	0.0	1.0	45.4	40.8	74.0	54.0	-28.6	-13.2	H
7.386	9.8	36.2	30.1	37.3	7.3	-36.2	0.0	1.0	45.5	39.4	74.0	54.0	-28.5	-14.6	H

NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WERE DETECTED ABOVE THE NOISE FLOOR

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

**HARMONIC AND SPURIOUS RADIATED EMISSION (G NORMAL MODE)**

2.412GHz

01/06/03 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Frank Ibrahim  
 Project #: 02U1750-1  
 Company: AMBITMICROSYSTEMS  
 EUT Descrip.: 802.11 B/G MINI PCI CARD  
 EUT M/N: B/G CARD  
 Test Target: FCC  
 Mode Oper: 11g Base Mode, Fund = 2.412 GHz,

Test Equipment:

Cable (feet) 15	EMCO Horn 1-18GHz T72; S/N: 6739	Pre-amplifier 1-26GHz Miteq NSP2600-44	Spectrum Analyzer 8564E Analyzer	Horn > 18GHz T87; ARA 18-26GHz; S/N:1049
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Peak Measurements: 1 MHz Resolution Bandwidth  
 1MHz Video Bandwidth  
 Average Measurements: 1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
4.824	9.8	48.6	42.1	33.9	5.7	-36.1	0.0	1.0	53.1	46.6	74.0	54.0	-20.9	-7.4	V
4.824	9.8	39.5	33.2	33.9	5.7	-36.1	0.0	1.0	44.0	37.7	74.0	54.0	-30.0	-16.3	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WERE DETECTED ABOVE THE NOISE FLOOR															
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim	Average Field Strength Limit								
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters		Pk Lim	Peak Field Strength Limit								
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m		Avg Mar	Margin vs. Average Limit								
AF	Antenna Factor		Peak	Calculated Peak Field Strength		Pk Mar	Margin vs. Peak Limit								
CL	Cable Loss		HPF	High Pass Filter											

01/06/03 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Frank Ibrahim  
 Project #: 02U1750-1  
 Company: AMBIT MICROSYSTEMS  
 EUT Descr.: 802.11 B/G MINI PCI CARD  
 EUT M/N: B/G CARD  
 Test Target: FCC  
 Mode Oper: 11g Base Mode, Fund = 2.437 GHz.

Test Equipment:

Cable (feet)	EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
15	T72; S/N: 6739	Miteq NSP2600-44	8564E Analyzer	T87; ARA 18-26GHz; S/N:1049

Peak Measurements: 1 MHz Resolution Bandwidth  
 1MHz Video Bandwidth  
 Average Measurements: 1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
4.874	9.8	41.5	30.8	34.0	5.8	-36.1	0.0	1.0	46.2	35.5	74.0	54.0	-27.8	-18.5	V
7.311	9.8	42.6	29.8	37.1	7.3	-36.3	0.0	1.0	51.7	38.9	74.0	54.0	-22.3	-15.1	V
4.874	9.8	37.3	29.5	34.0	5.8	-36.1	0.0	1.0	42.0	34.2	74.0	54.0	-32.0	-19.8	H
7.311	9.8	39.5	29.7	37.1	7.3	-36.3	0.0	1.0	48.6	38.8	74.0	54.0	-25.4	-15.2	H

NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WERE DETECTED ABOVE THE NOISE FLOOR

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

01/06/03 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Frank Ibrahim  
 Project #: 02U1750-1  
 Company: AMBIT MICROSYSTEMS  
 EUT Descrip.: 802.11 B/G MINI PCI CARD  
 EUT M/N: B/G CARD  
 Test Target: FCC  
 Mode Oper: 11g Base Mode, Fund = 2.462 GHz.

Test Equipment:

Cable (feet) 15	EMCO Horn 1-18GHz T72; S/N: 6739	Pre-amplifier 1-26GHz Miteq NSP2600-44	Spectrum Analyzer 8564E Analyzer	Horn > 18GHz T87; ARA 18-26GHz; S/N:1049
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Peak Measurements: 1 MHz Resolution Bandwidth  
 1MHz Video Bandwidth  
 Average Measurements: 1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
4.924	9.8	46.5	36.1	34.2	5.8	-36.1	0.0	1.0	51.4	41.0	74.0	54.0	-22.6	-13.0	V
7.386	9.8	37.2	29.5	37.3	7.3	-36.2	0.0	1.0	46.5	38.8	74.0	54.0	-27.5	-15.2	V
4.924	9.8	39.1	29.7	34.2	5.8	-36.1	0.0	1.0	44.0	34.6	74.0	54.0	-30.0	-19.4	H
7.386	9.8	35.8	30.0	37.3	7.3	-36.2	0.0	1.0	45.1	39.3	74.0	54.0	-28.9	-14.7	H

NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WERE DETECTED ABOVE THE NOISE FLOOR

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

**HARMONIC AND SPURIOUS RADIATED EMISSION (G TURBO MODE)**  
**2.437GHz**

01/06/03 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Frank Ibrahim  
 Project #: 02U1750-1  
 Company: AMBITMICROSYSTEMS  
 EUT Descrip.: 802.11 B/G MINI PCI CARD  
 EUT M/N: B/G CARD  
 Test Target: FCC  
 Mode Oper: 11g Turbo Mode, Fund = 2.437 GHz

Test Equipment:

Cable (feet)	EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
15	T72; S/N: 6739	Miteq NSP2600-44	8564E Analyzer	T87; ARA 18-26GHz; S/N:1049

Peak Measurements: 1 MHz Resolution Bandwidth  
 1MHz Video Bandwidth  
 Average Measurements: 1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
4.874	9.8	39.2	29.6	34.0	5.8	-36.1	0.0	1.0	43.9	34.3	74.0	54.0	-30.1	-19.7	V
7.311	9.8	43.4	31.5	37.1	7.3	-36.3	0.0	1.0	52.5	40.6	74.0	54.0	-21.5	-13.4	V
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WERE DETECTED ABOVE THE NOISE FLOOR															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

**DIGITAL DEVICE RADIATED EMISSIONS**



FCC, VCCI, CISPR, CE, AUSTEL, NZ  
 UL, CSA, TUV, BSMI, DHHS, NVLAP

561F MONTEREY ROAD, SAN JOSE, CA 95037-9001  
 PHONE: (408) 463-0885 FAX: (408) 463-0888

*Project #:* 03U1761  
*Report #:* 021003C2  
*Date & Time:* 02/10/03 4:08 PM  
*Test Engr:* NEELESH RAJ

*Company:* AMBIT MICROSYSTEMS  
*EUT Description:* 802.11 b/g MINI PCICARD  
*Test Configuration:* EUT/AC ADAPTER/PRINTER/MODEM  
*Type of Test:* CISPR22-B  
*Mode of Operation:* TX

[<< Main Sheet](#)

Freq (MHz)	Reading (dBuV)	AF (dB)	Class (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit EN B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)	Mark (P/Q/A)
192.00	36.50	15.70	2.37	26.66	27.91	30.00	-2.09	10mV	180.00	1.00	QP
160.00	35.30	17.05	2.14	26.80	27.69	30.00	-2.31	10mV	180.00	1.00	QP
133.33	39.30	13.36	1.94	26.95	27.65	30.00	-2.35	10mV	180.00	1.00	QP
334.78	43.10	14.95	3.19	26.64	34.60	37.00	-2.40	10mV	180.00	1.00	QP
633.33	37.80	19.70	4.69	27.84	34.35	37.00	-2.65	10mV	45.00	1.00	QP
324.83	42.37	14.86	3.14	26.57	33.80	37.00	-3.20	10mV	180.00	1.00	QP
6 Worst Data											



## 8.8. POWERLINE CONDUCTED EMISSIONS

### TEST SETUP

The EUT is placed on a wooden table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane on the floor.

The EUT is set to transmit in a continuous mode.

### 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

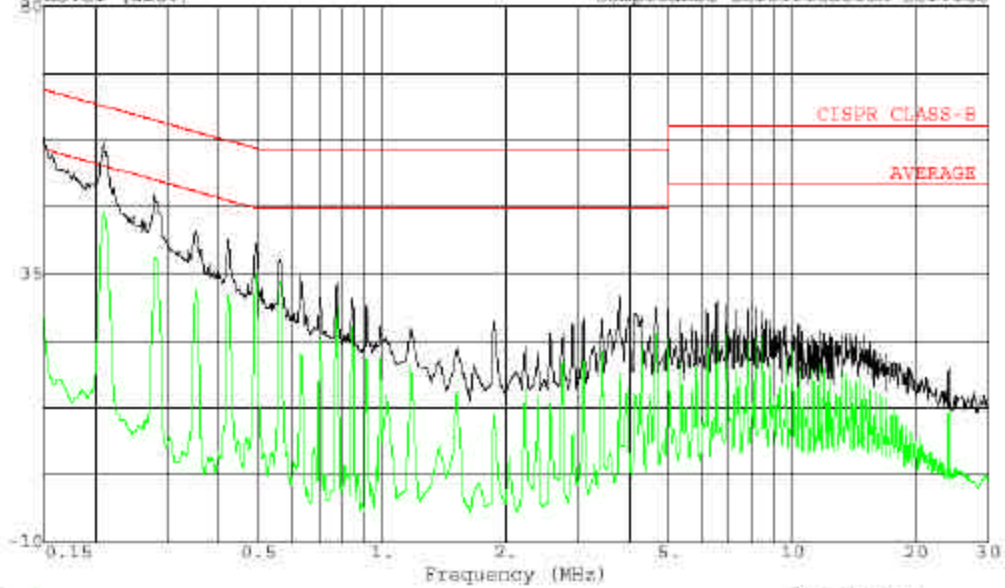
No non-compliance noted:

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq. (MHz)	Reading			Class (dB)	Limit QP	EN B AV	Margin		Remark L1 / L2
	PK (dBuV)	QP (dBuV)	AV (dBuV)				QP (dB)	AV (dB)	
0.15	58.14	--	29.47	0.00	65.94	55.94	-7.80	-26.47	L1
0.21	56.96	--	46.08	0.00	64.31	54.31	-7.35	-8.23	L1
0.28	48.42	--	37.81	0.00	62.40	52.40	-13.98	-14.59	L1
0.16	57.92	--	29.62	0.00	65.80	55.80	-7.88	-26.18	L2
0.21	59.52	--	48.38	0.00	64.31	54.31	-4.79	-5.93	L2
0.28	49.76	--	39.58	0.00	62.31	52.31	-12.55	-12.73	L2
6 Worst Data									



561F Monterey Road,  
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Tel: (408) 463-0885  
Fax: (408) 463-0888

Data#: 7 File#: 1731LC.RMI Date: 12-20-2002 Time: 10:38:10  
Level (dBuV) Compliance Certification Service



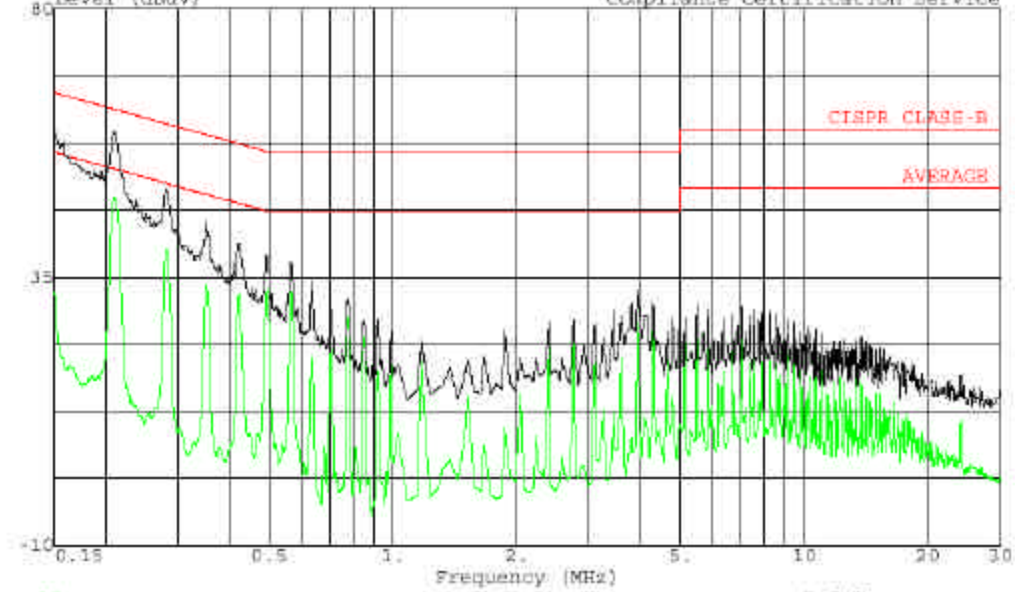
Trace: 5  
Project # : 02U1731-1  
Test Engineer : William Zhuang  
Company : AMBIT MICROSYSTEM CORP.  
EUT : 802.11a/g Mini-PCI Card  
Model Name : HP-WLAN MPCI W500  
Test Config. : EUT  
Test of Target: FCC Class B  
Mode of Op. : EUT is Charging & Transmitting  
: 115VAC, 60Hz  
: Li: Peak (Black), Ave (Green)

Ref Trace:



561F Monterey Road,  
San Jose, CA 95037 USA  
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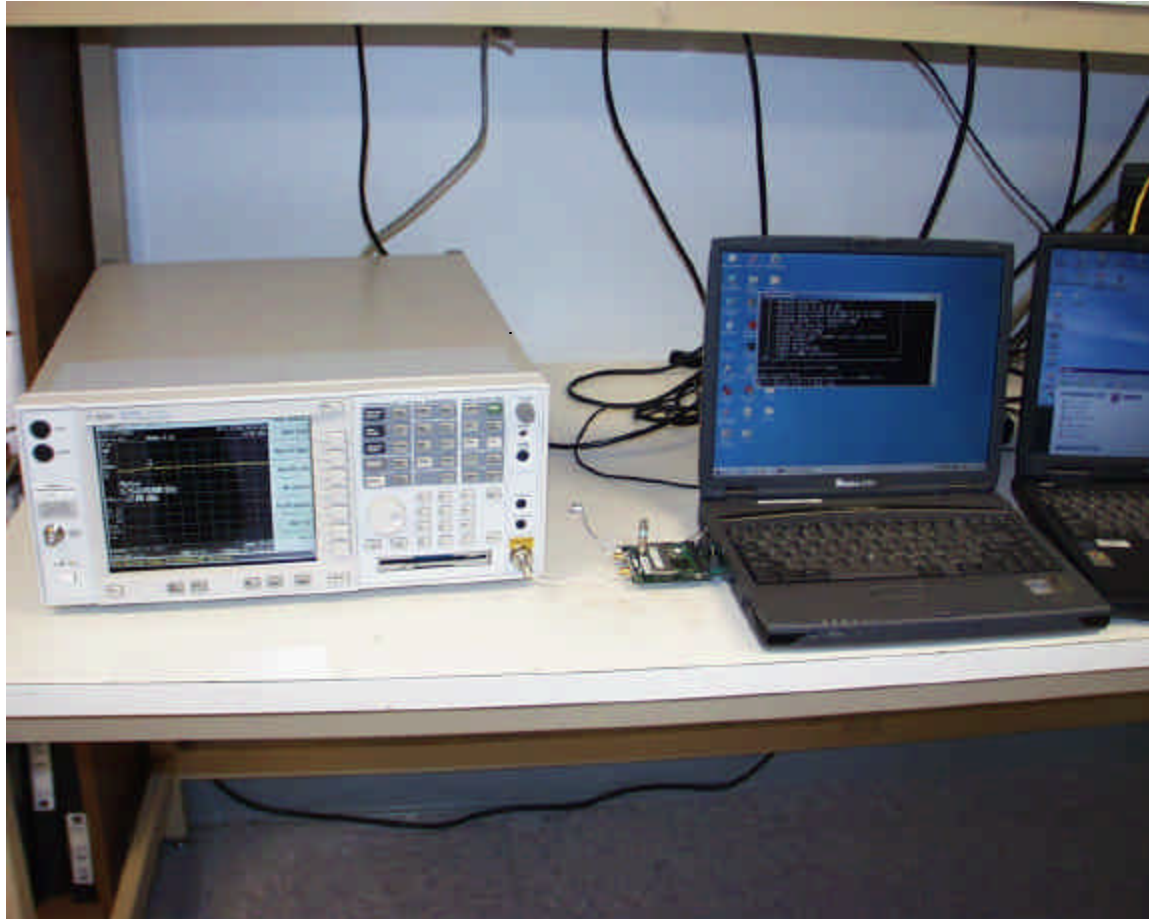
Data#: 14 File#: 17311C-1.EMI Date: 12-20-2002 Time: 11:35:59  
Level (dB $\mu$ V) Compliance Certification Service



Trace: 12  
Project # : 03U1731-1  
Test Engineer : William Zhuang  
Company : AMBIT MICROSYSTEM CORP.  
EUT : 802.11a/g Mini-PCI Card  
Model Name : HP-WLAN MPCI W500  
Test Config. : EUT  
Test of Target: FCC Class B  
Mode of Op. : EUT is Charging & Transmitting  
: 115VAC, 60Hz  
: L2: Peak (BLACK), Ave (GREEN)

## 8.9. SETUP PHOTOS

### ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



**RADIATED RF MEASUREMENT SETUP**







**DIGITAL DEVICE RADIATED EMISSIONS MEASUREMENT SETUP**







**POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP**





**END OF REPORT**