

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.

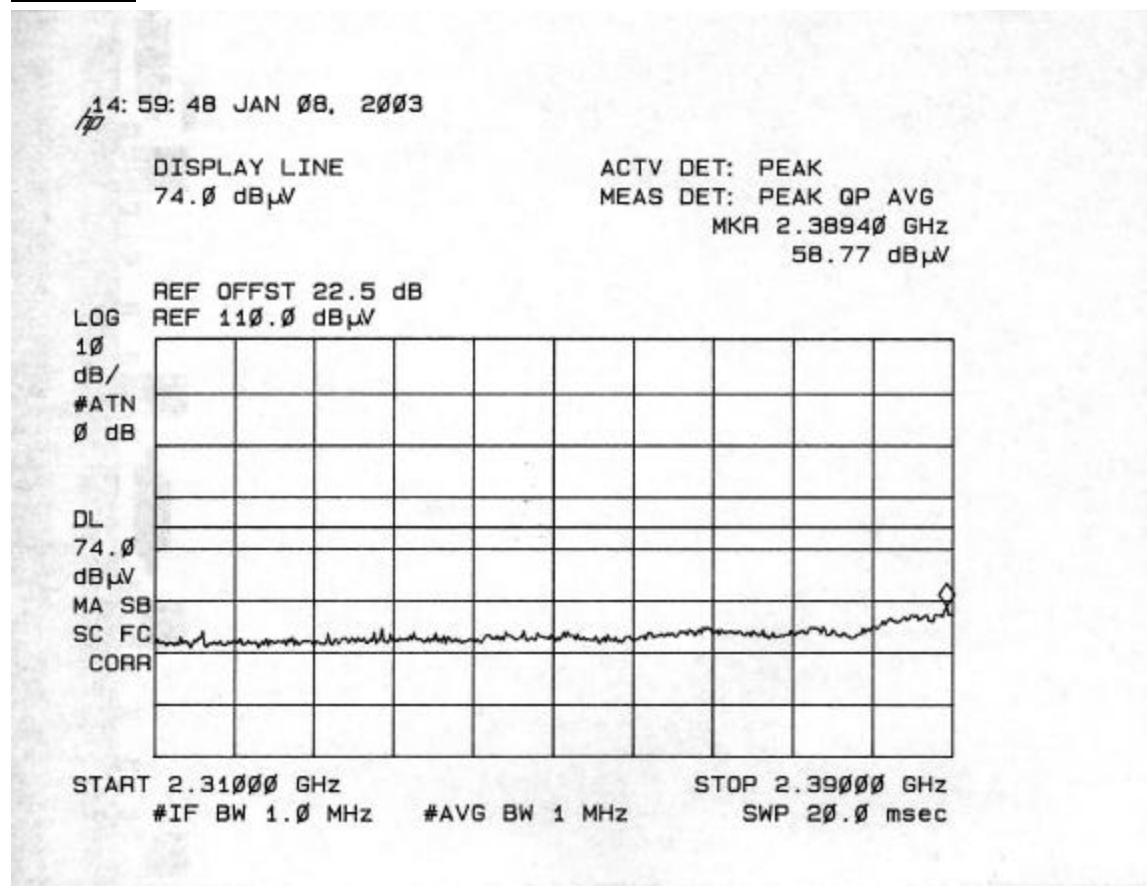
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels within the 5.8 GHz band.

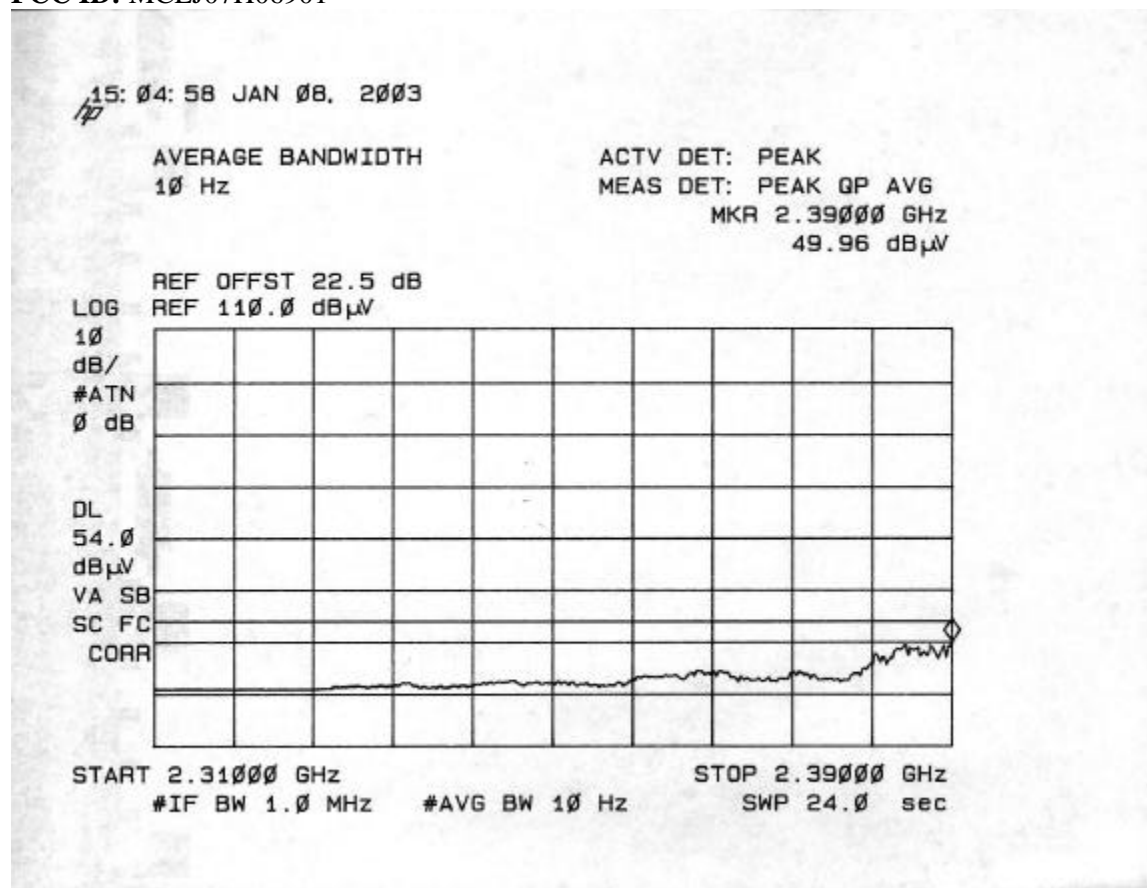
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The frequency span is set small enough to easily differentiate between broadcast stations, intermittent ambient signals and EUT emissions. The EUT is rotated through 360 degrees to maximize emissions received. The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

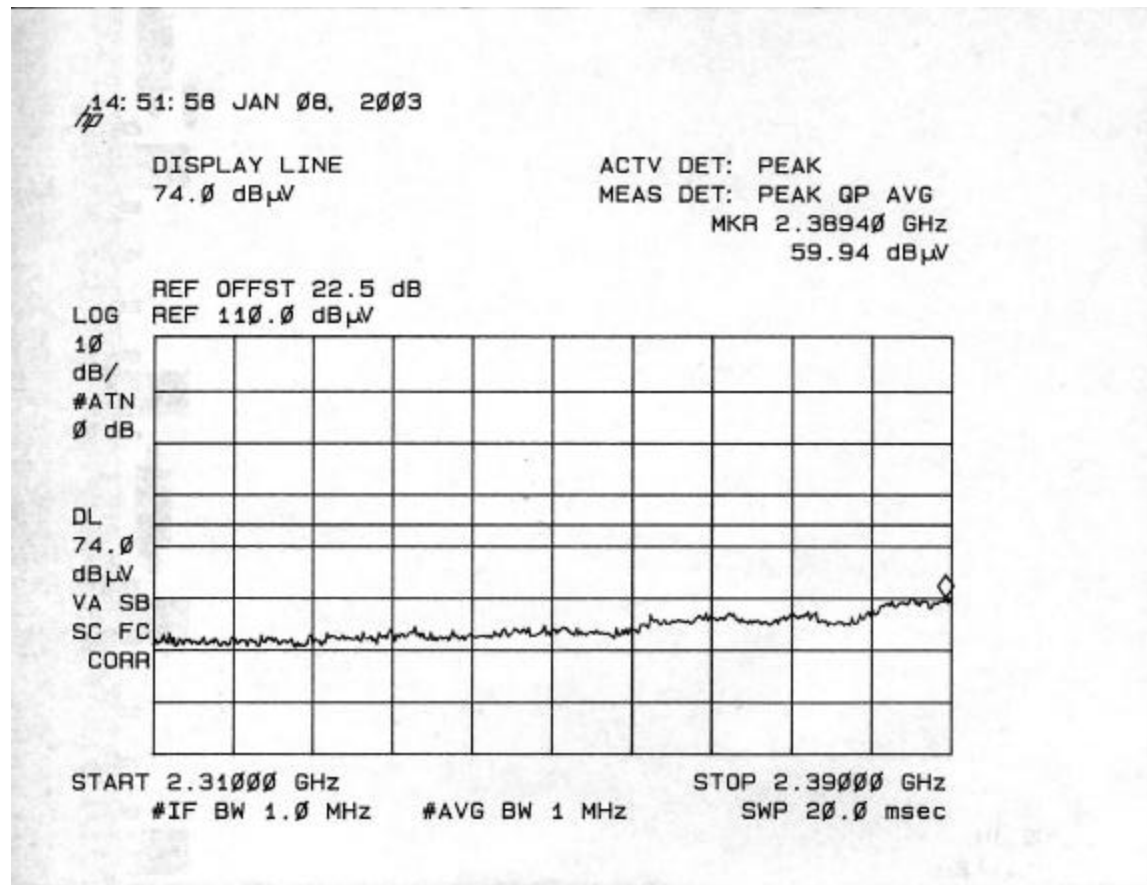
No non-compliance noted:

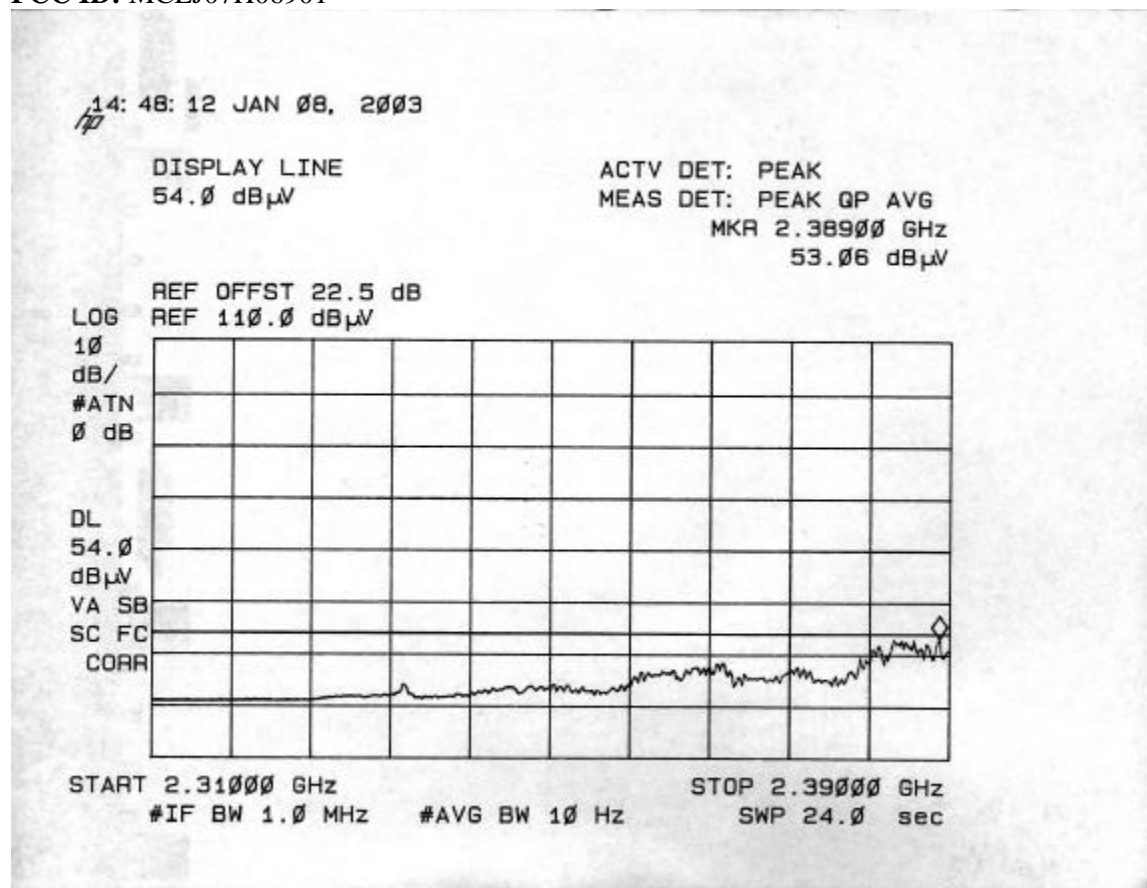
RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, HORIZONTAL POLARIZATION)
(B MODE)



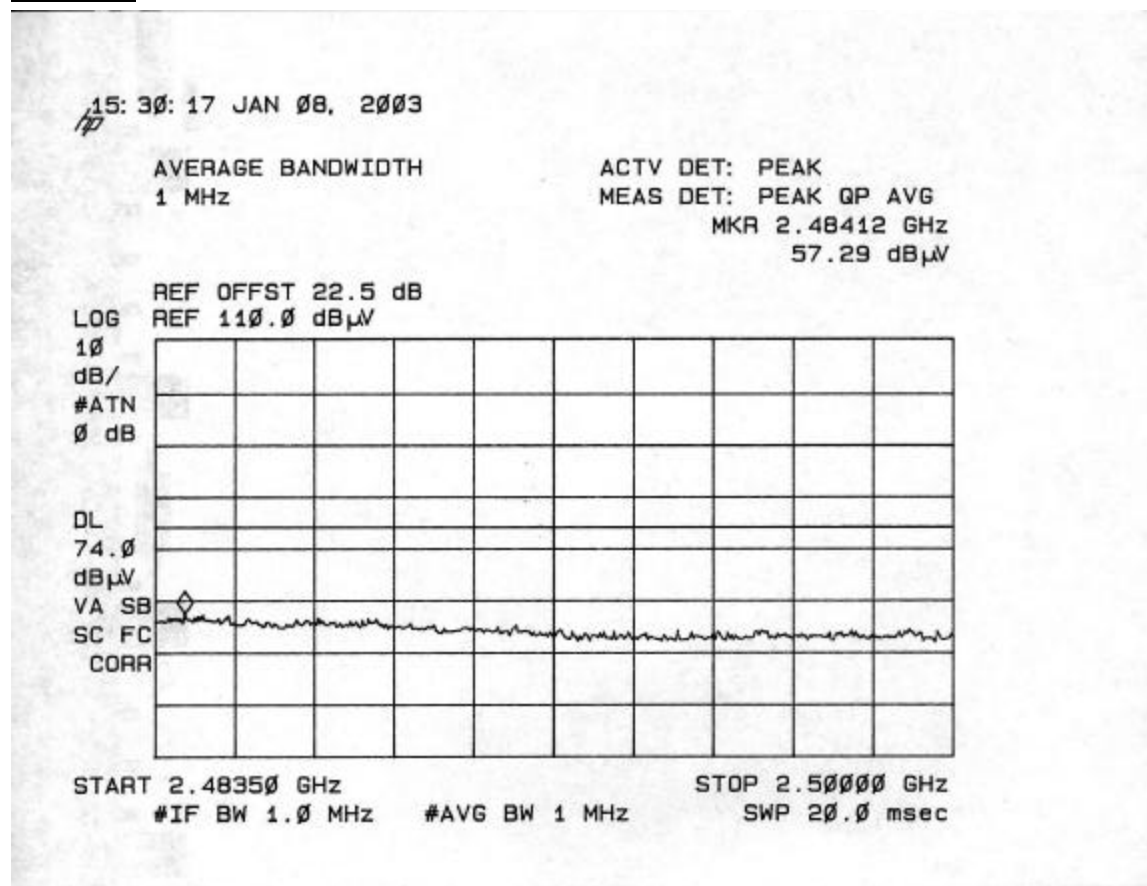


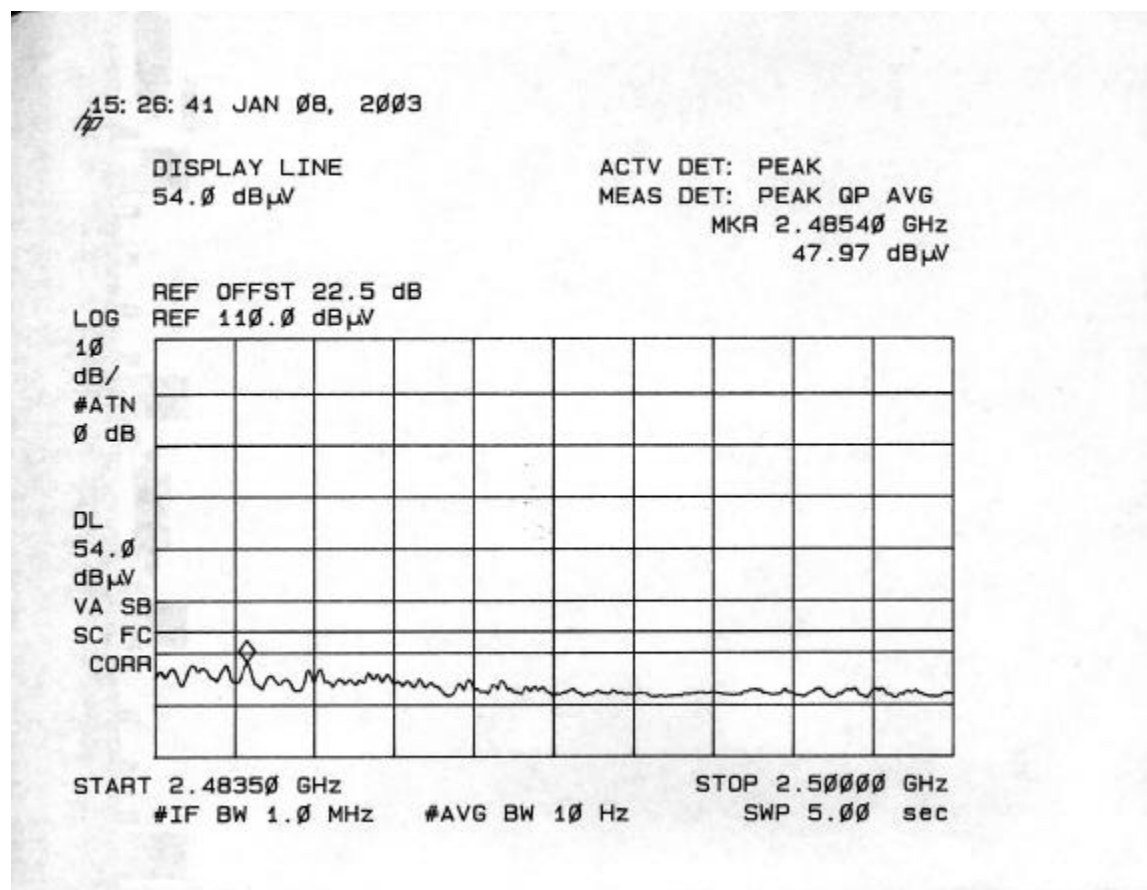
RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, VERTICAL POLARIZATION)
(B MODE)



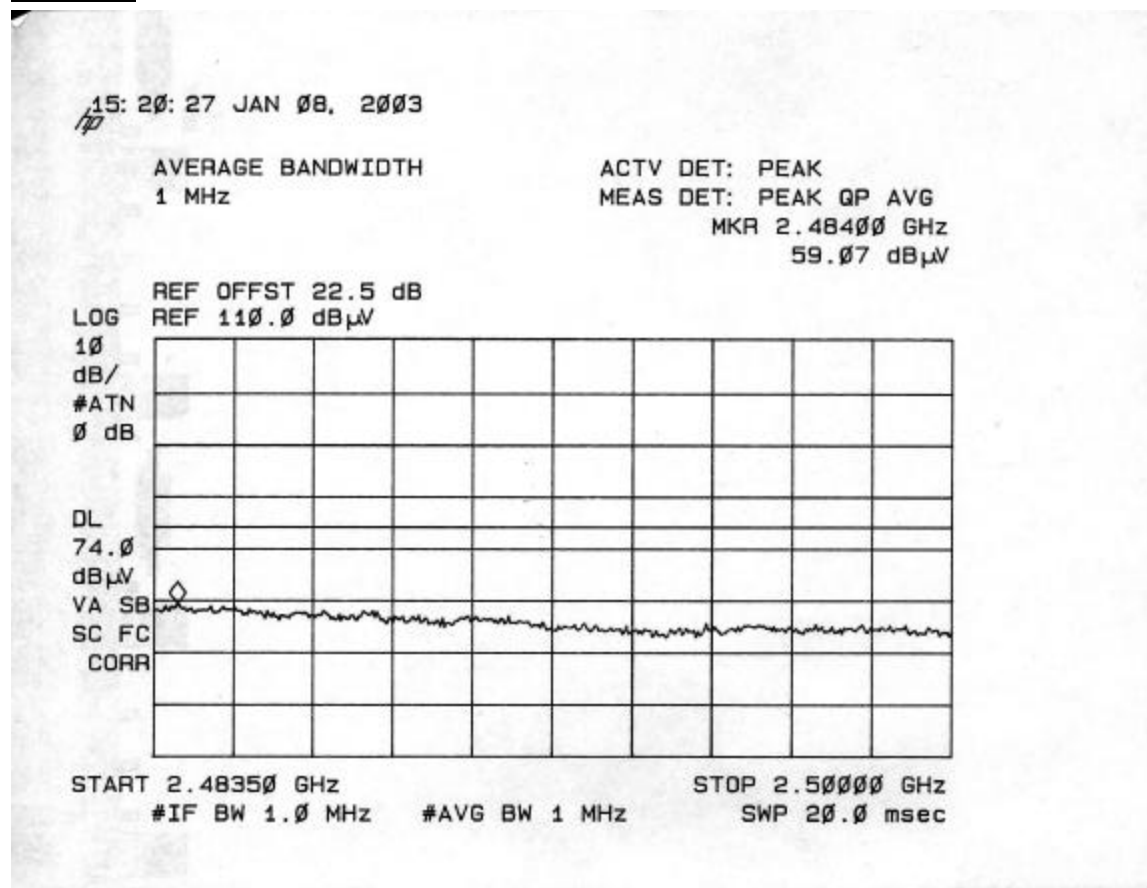


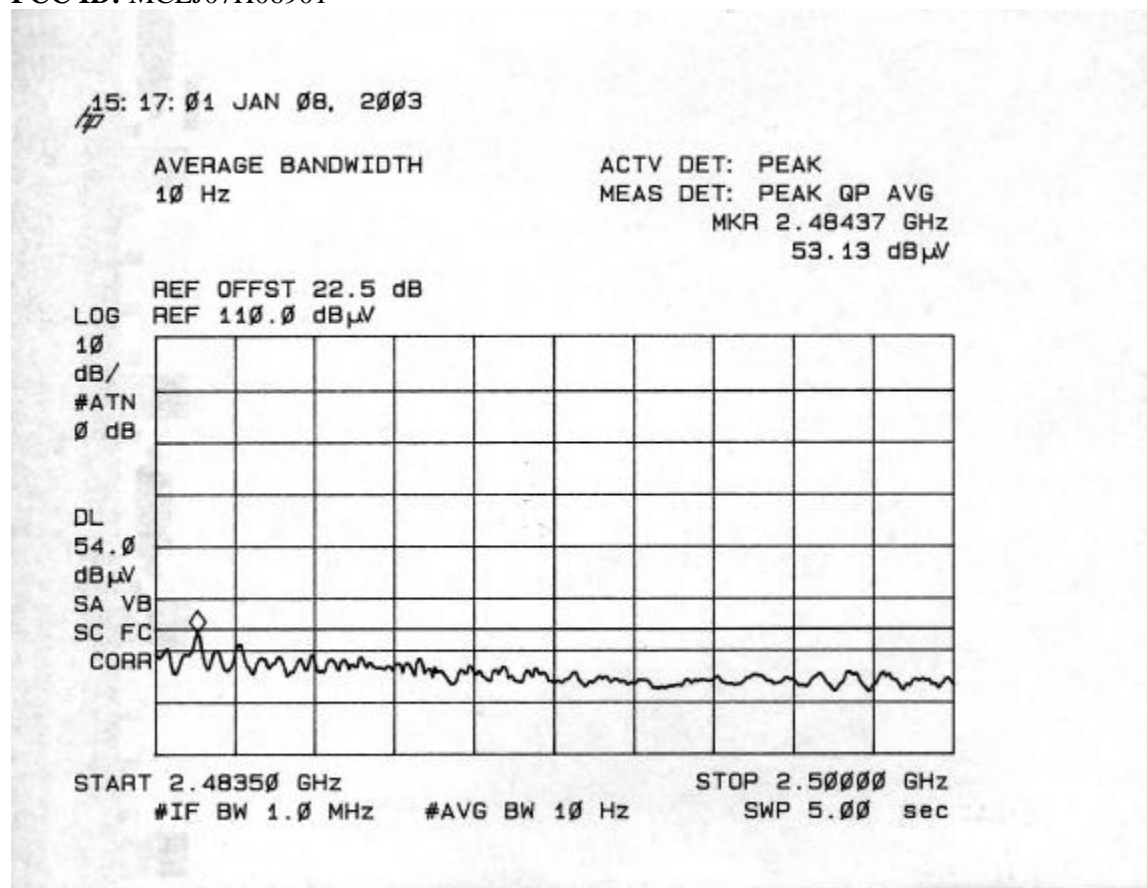
RESTRICTED BAND RADIATED EMISSIONS (HIGH CHANNEL, HORIZONTAL POLARIZATION)
(B MODE)





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





HARMONIC AND SPURIOUS RADIATED EMISSIONS (2.4 GHZ BAND) (B MODE)

2.412GHz

01/11/03 High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Test Engr:		Frank brashin													
Project #:		02U1731													
Company:		AMBIT MICROSYSTEMS													
EUT Descrip.:		802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP													
EUT M/N:		A/B/G CARD													
Test Target:		PCG													
Mode Oper:		2.412 GHz, B Base Mode													
Test Equipment:															
Cable (feet)	EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz											
15	T73; S/N: 6717	HP 8449B	8566B Analyzer												
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	3.3	58.0	55.7	33.8	5.7	-34.6	-9.5	1.0	54.4	52.1	74.0	54.0	-19.6	-1.9	Y
12.060	3.3	45.0	34.6	39.4	9.5	-33.4	-9.5	1.0	52.0	41.6	74.0	54.0	-22.0	-12.4	Y
4.824	3.3	56.1	53.4	33.8	5.7	-34.6	-9.5	1.0	52.5	49.8	74.0	54.0	-21.5	-4.2	H
12.060	3.3	44.3	34.0	39.4	9.5	-33.4	-9.5	1.0	51.3	41.0	74.0	54.0	-22.7	-13.0	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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											

REPORT NO: 02U1731-1A DATE: FEBRUARY 23, 2003
EUT: 802.11 a/b/g MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP
FCC ID: MCLJ07H06901
2.437GHz

01/11/03 High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Test Eng:		Frank brshin													
Project #:		02U1731													
Company:		AMBIT MICROSYSTEMS													
EUT Descrip.:		802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP													
EUT M/N:		A/B/G CARD													
Test Target:		FCC													
Mode Oper:		2.437 GHz, B Base Mode													
Test Equipment:															
Cable (feet)		EMCO Horn 1-18GHz		Pre-amplifier 1-26GHz		Spectrum Analyzer		Horn > 18GHz							
15		T73; S/N: 6717		HP 8449B		8566B Analyzer									
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
4.874	3.3	59.6	57.0	33.9	5.8	-34.6	-9.5	1.0	56.2	53.6	74.0	54.0	-17.8	-0.4	Y
7.311	3.3	47.6	39.8	37.2	7.3	-34.6	-9.5	1.0	49.0	41.2	74.0	54.0	-25.0	-12.8	Y
4.874	3.3	61.8	57.1	33.9	5.8	-34.6	-9.5	1.0	58.4	53.7	74.0	54.0	-15.6	-0.3	H
7.311	3.3	44.4	36.0	37.2	7.3	-34.6	-9.5	1.0	45.8	37.4	74.0	54.0	-28.2	-16.6	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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											

REPORT NO: 02U1731-1A DATE: FEBRUARY 23, 2003
EUT: 802.11 a/b/g MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP
FCC ID: MCLJ07H06901
2.462GHz

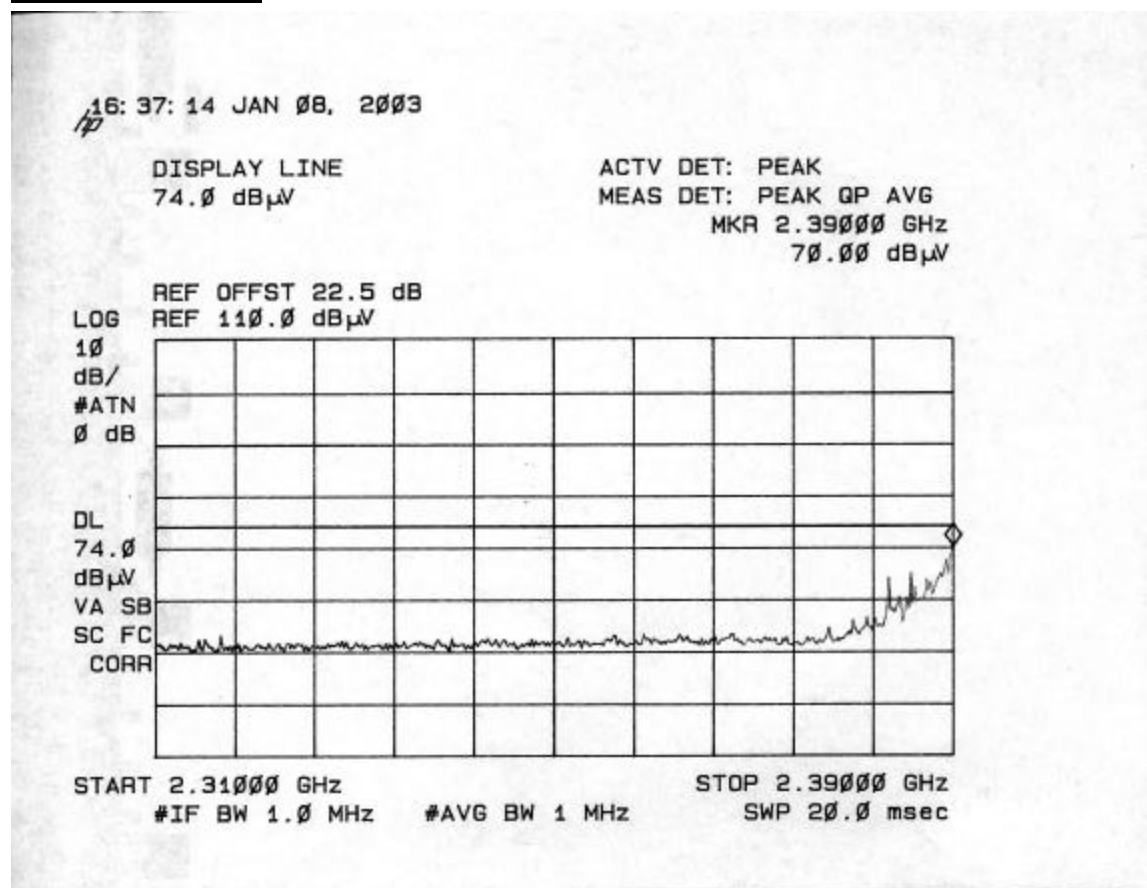
01/11/03 High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Test Eng:		Frank brshin													
Project #:		02U1731													
Company:		AMBIT MICROSYSTEMS													
EUT Descrip.:		802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP													
EUT M/N:		A/B/G CARD													
Test Target:		FCC													
Mode Oper:		2.462 GHz, B Base Mode													
Test Equipment:															
Cable (feet)		EMCO Horn 1-18GHz		Pre-amplifier 1-26GHz		Spectrum Analyzer		Horn > 18GHz							
15		T73; S/N: 6717		HP 8449B		8566B Analyzer									
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
4.924	3.3	61.0	56.2	34.1	5.8	-34.5	-9.5	1.0	57.9	53.1	74.0	54.0	-16.1	-0.9	Y
7.869	3.3	47.2	39.5	37.8	7.6	-34.7	-9.5	1.0	49.4	41.7	74.0	54.0	-24.6	-12.3	Y
4.924	3.3	56.4	55.3	34.1	5.8	-34.5	-9.5	1.0	53.3	52.2	74.0	54.0	-20.7	-1.5	H
7.869	3.3	44.4	36.0	37.8	7.6	-34.7	-9.5	1.0	46.6	38.2	74.0	54.0	-27.4	-15.8	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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											

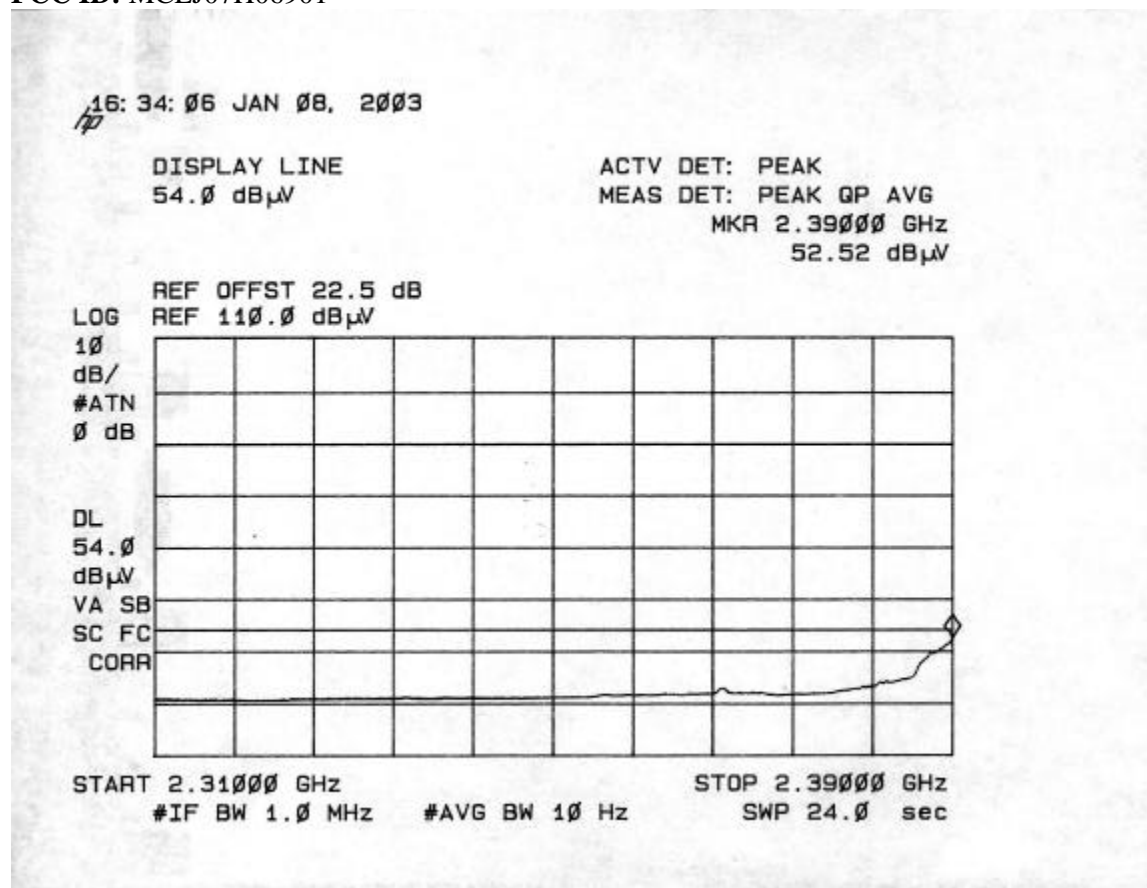
REPORT NO: 02U1731-1A DATE: FEBRUARY 23, 2003

EUT: 802.11 a/b/g MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP

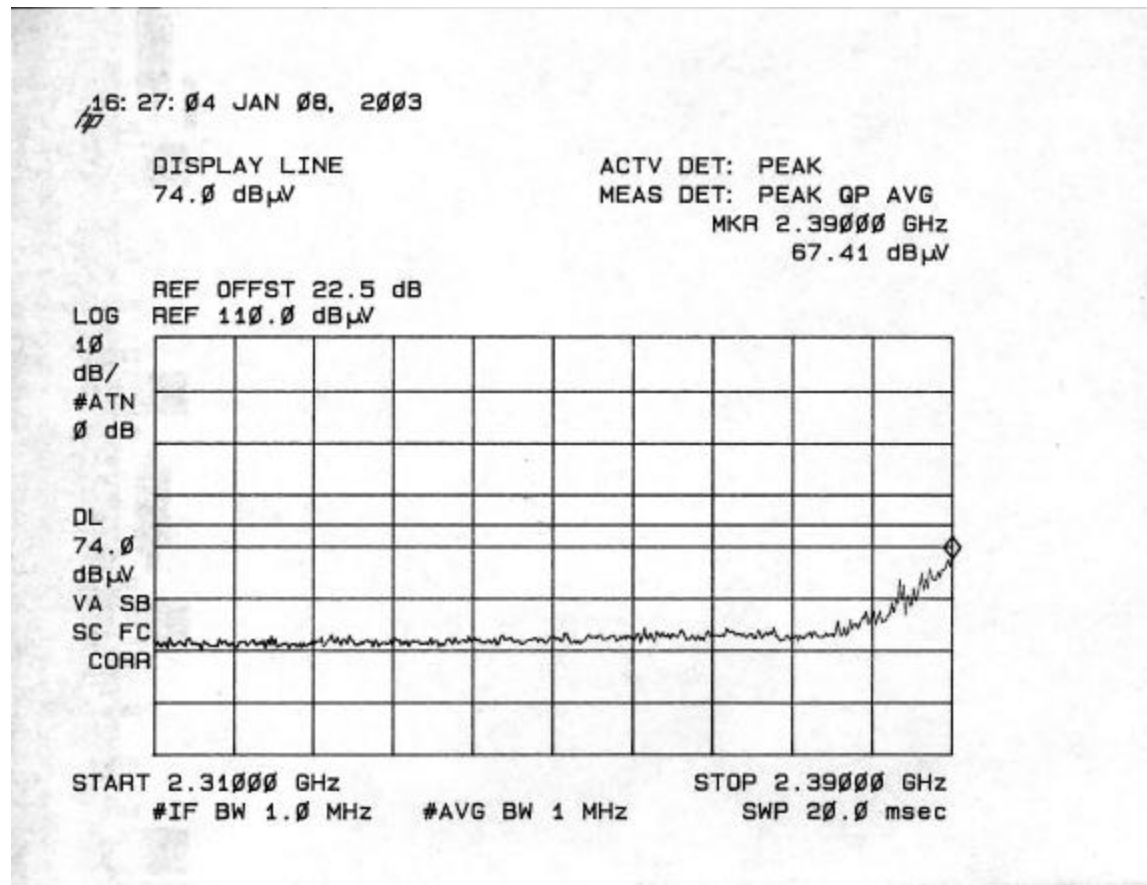
FCC ID: MCLJ07H06901

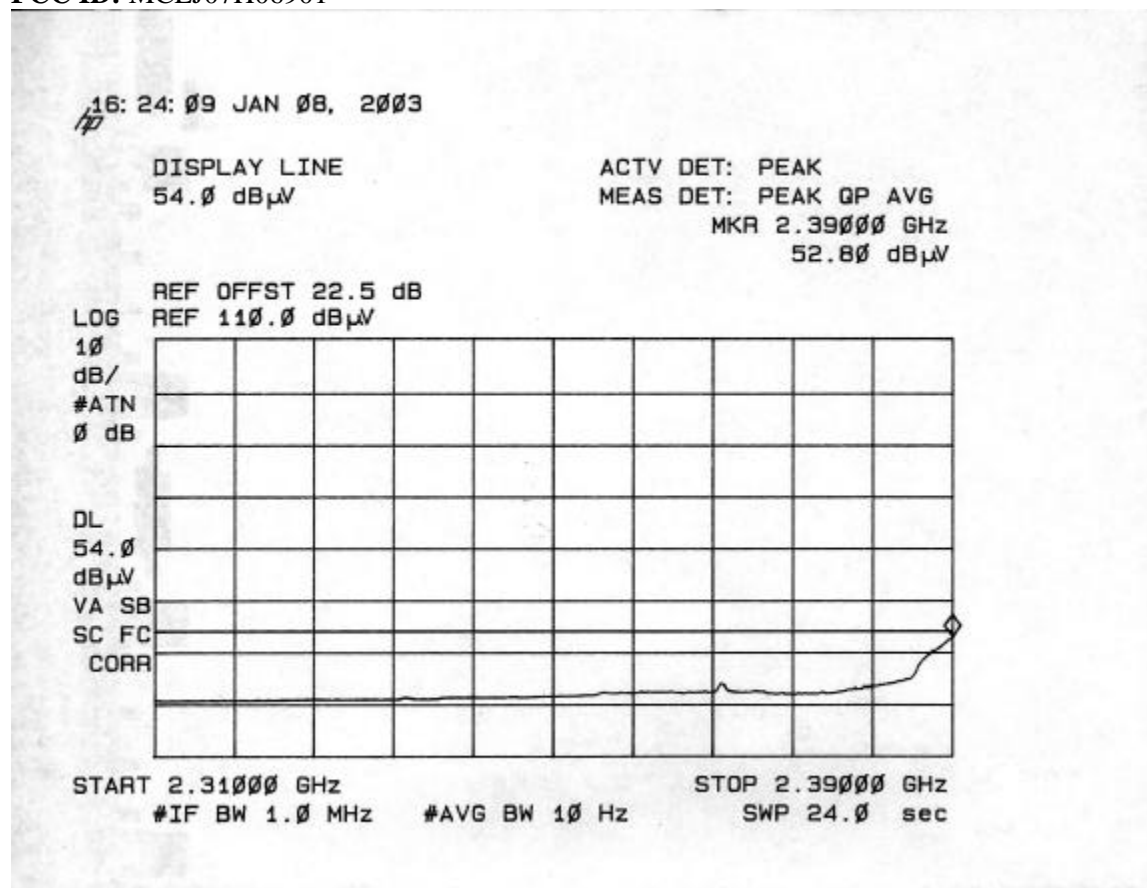
RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, HORIZONTAL POLARIZATION)
(NORMAL G MODE)



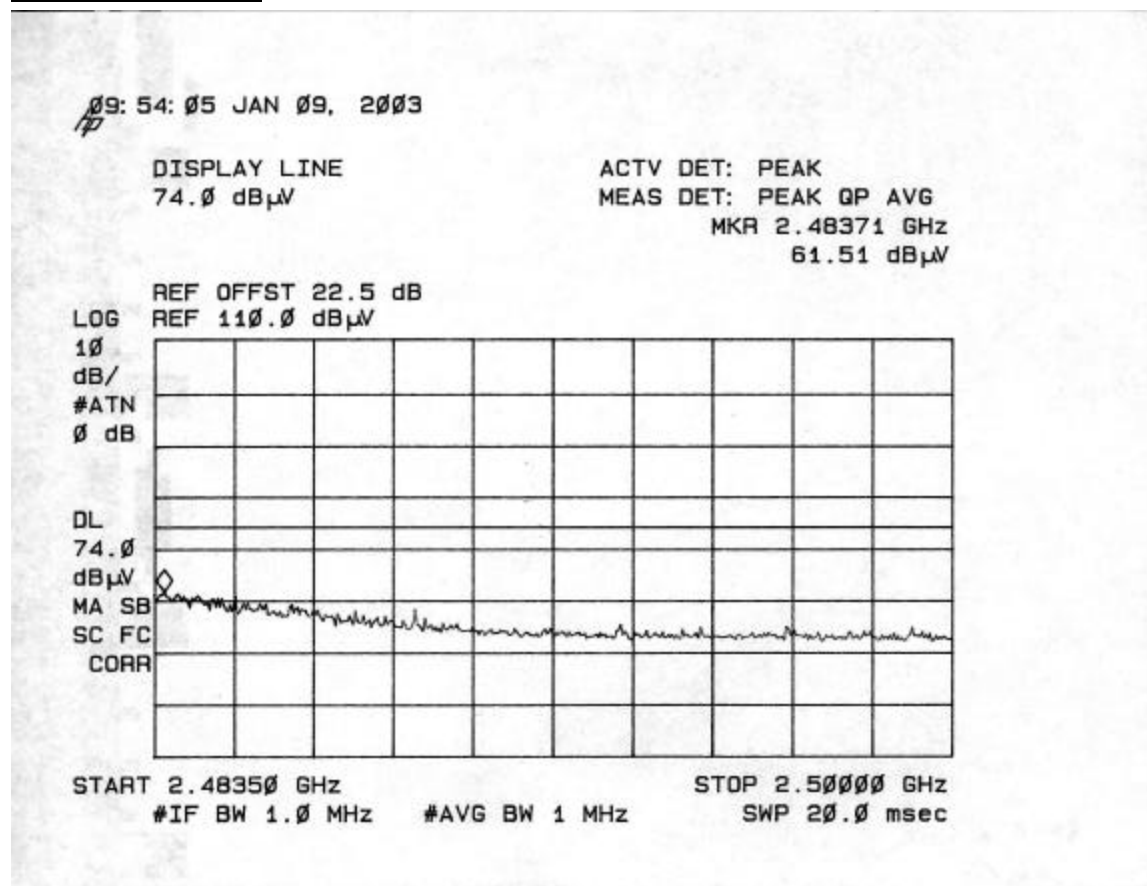


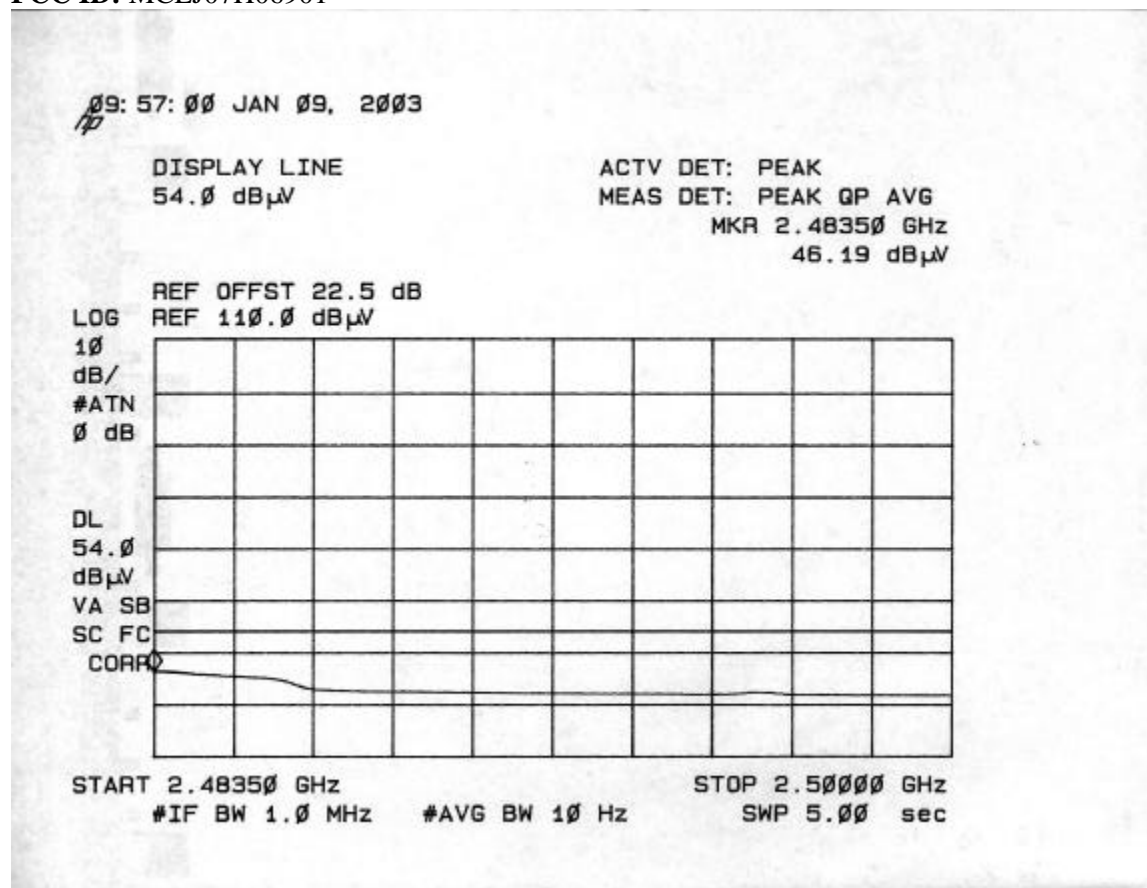
RESTRICTED BAND RADIATED EMISSIONS (LOW CHANNEL, VERTICAL POLARIZATION)
(NORMAL G MODE)



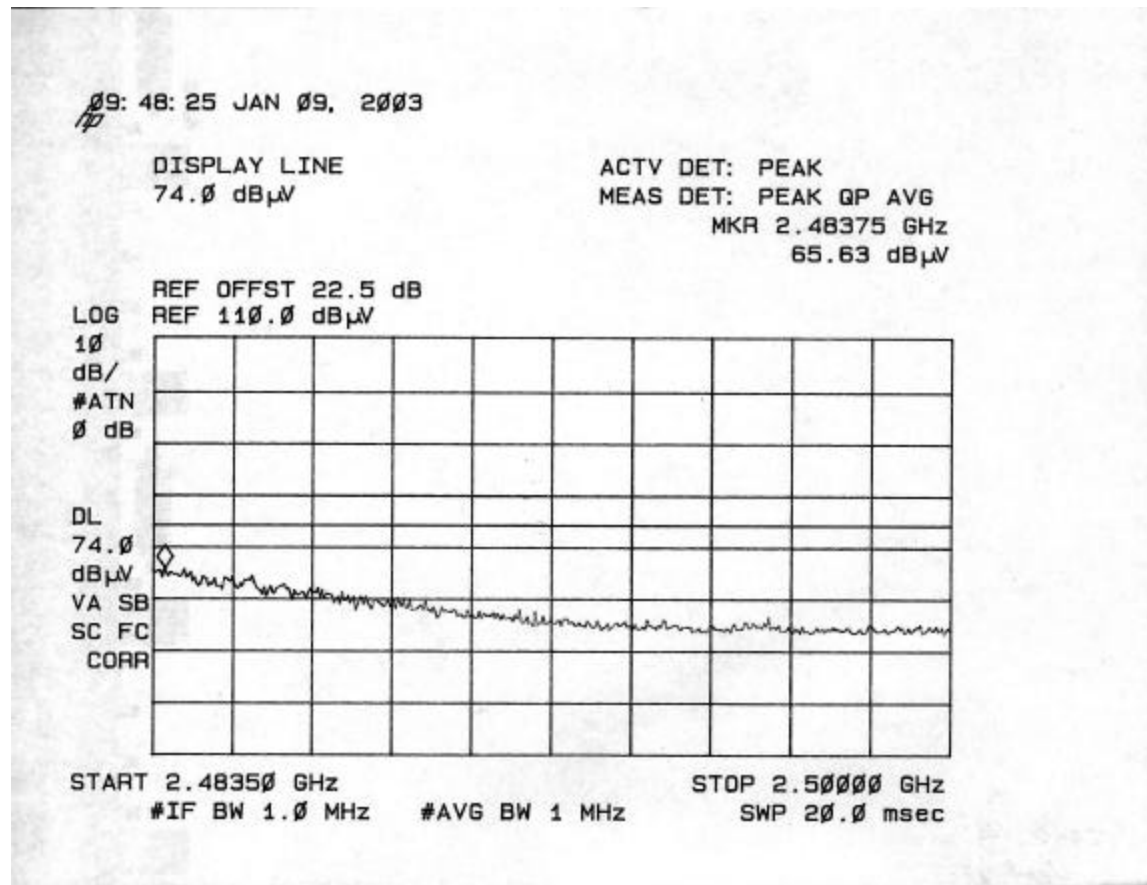


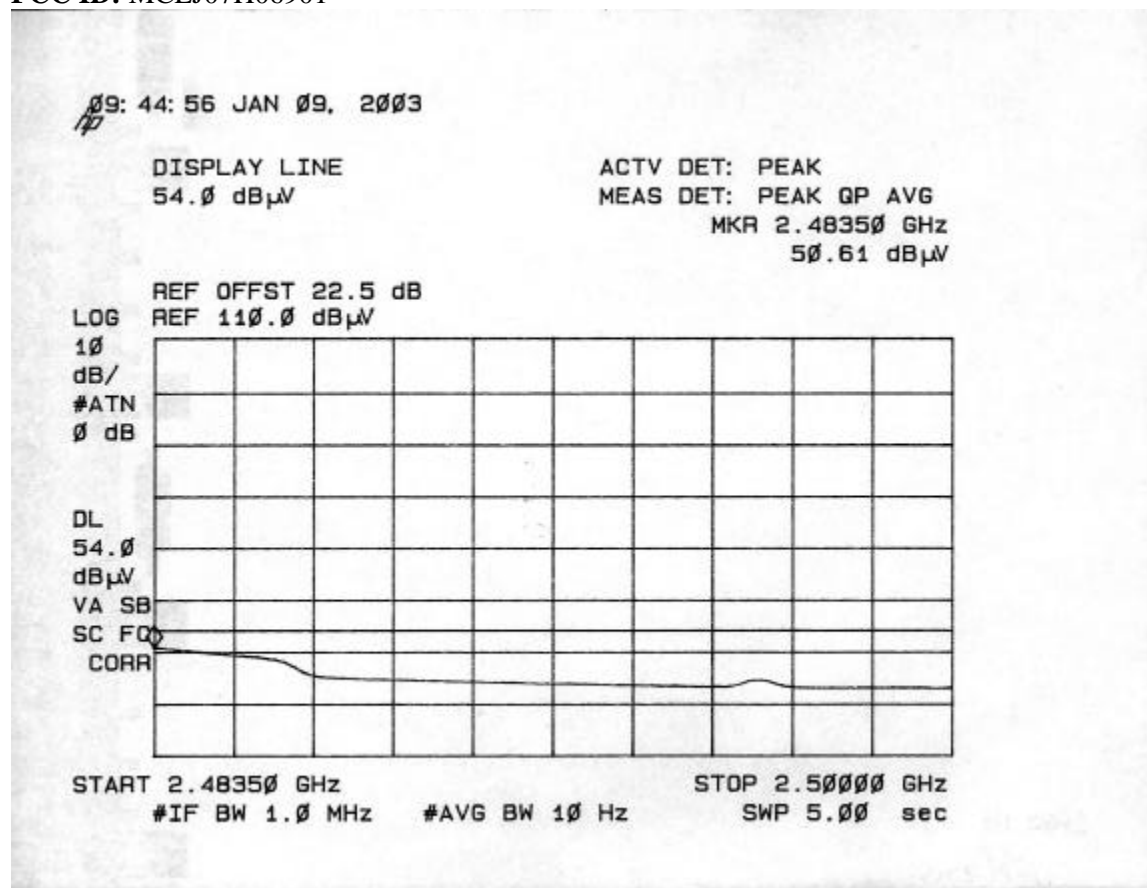
RESTRICTED BAND RADIATED EMISSIONS (HIGH CHANNEL, HORIZONTAL POLARIZATION)
(G NORMAL MODE)





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





HARMONIC AND SPURIOUS RADIATED EMISSIONS (2.4 GHZ BAND) (G NORMAL MODE) AND (G TURBO MODE)

NORMAL MODE

2.412GHz

01/1103 High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Test Eng: Frank brashin
Project #: 02U1731
Company: AMBIT MICROSYSTEMS
EUT Descrip.: 802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP
EUT M/N: A/B/G CARD
Test Target: FCC
Mode Oper: 2.412 GHz, g Base Mode

Test Equipment:

Cable (feet)	EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
15	T73; S/N: 6717	HP 8449B	8666B Analyzer	

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	3.3	61.0	56.2	33.8	5.7	-34.6	-9.5	1.0	57.4	52.6	74.0	54.0	-16.6	-1.4	Y
12.060	3.3	44.8	34.3	39.4	9.5	-33.4	-9.5	1.0	51.8	41.3	74.0	54.0	-22.2	-12.7	Y
4.824	3.3	50.5	37.6	33.8	5.7	-34.6	-9.5	1.0	46.9	34.0	74.0	54.0	-27.1	-29.0	H
12.060	3.3	44.6	34.0	39.4	9.5	-33.4	-9.5	1.0	51.6	41.0	74.0	54.0	-22.4	-13.0	H

NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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		

REPORT NO: 02U1731-1A DATE: FEBRUARY 23, 2003
EUT: 802.11 a/b/g MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP
FCC ID: MCLJ07H06901
2.437GHz

01/11/03 High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Test Eng:		Frank brshin														
Project #:		02U1731														
Company:		AMBIT MICROSYSTEMS														
EUT Descrip.:		802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP														
EUT M/N:		A/B/G CARD														
Test Target:		FCC														
Mode Oper:		2.437 GHz, g Base Mode														
Test Equipment:																
Cable (feet)		EMCO Horn 1-18GHz			Pre-amplifier 1-26GHz			Spectrum Analyzer			Horn > 18GHz					
15		T73; S/N: 6717			HP 8449B			8566B Analyzer								
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	
4.874	3.3	56.2	45.8	33.9	5.8	-34.6	-9.5	1.0	52.8	42.4	74.0	54.0	-21.2	-11.6	Y	
7.311	3.3	46.0	38.0	37.2	7.3	-34.6	-9.5	1.0	47.4	39.4	74.0	54.0	-26.6	-14.6	Y	
4.874	3.3	59.6	46.8	33.9	5.8	-34.6	-9.5	1.0	56.2	43.4	74.0	54.0	-17.8	-10.6	H	
7.311	3.3	46.0	37.9	37.2	7.3	-34.6	-9.5	1.0	47.4	39.3	74.0	54.0	-26.6	-14.7	H	
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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												

REPORT NO: 02U1731-1A DATE: FEBRUARY 23, 2003
EUT: 802.11 a/b/g MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP
FCC ID: MCLJ07H06901
2.462GHz

01/11/03 High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Test Eng:		Frank brshin														
Project #:		02U1731														
Company:		AMBIT MICROSYSTEMS														
EUT Descrip.:		802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP														
EUT M/N:		A/B/G CARD														
Test Target:		FCC														
Mode Oper:		2.462 GHz, g Base Mode														
Test Equipment:																
Cable (feet)		EMCO Horn 1-18GHz			Pre-amplifier 1-26GHz			Spectrum Analyzer			Horn > 18GHz					
15		T73; S/N: 6717			HP 8449B			8566B Analyzer								
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	
4.924	3.3	56.2	45.8	34.1	5.8	-34.5	-9.5	1.0	53.1	42.7	74.0	54.0	-20.9	-11.3	Y	
7.386	3.3	46.0	38.0	37.3	7.3	-34.6	-9.5	1.0	47.6	39.6	74.0	54.0	-26.4	-14.4	Y	
4.924	3.3	59.7	37.7	34.1	5.8	-34.5	-9.5	1.0	47.6	34.6	74.0	54.0	-26.4	-19.4	H	
7.386	3.3	46.0	38.0	37.3	7.3	-34.6	-9.5	1.0	47.6	39.6	74.0	54.0	-26.4	-14.4	H	
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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												

TURBO MODE

2.437GHz

01/1103 High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Test Eng:		Frank brshin													
Project #:		02U1731													
Company:		AMBIT MICROSYSTEMS													
EUT Descrip.:		802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP													
EUT M/N:		A/B/G CARD													
Test Target:		FCC													
Mode Oper:		2.437 GHz, g Turbo Mode													
Test Equipment:															
Cable (feet)		EMCO Horn 1-18GHz		Pre-amplifier 1-36GHz		Spectrum Analyzer		Horn > 18GHz							
15		T73; S/N: 6717		HP8449B		8566B Analyzer									
Peak Measurements: 1 MHz Resolution Bandwidth 1 MHz Video Bandwidth															
Average Measurements: 1 MHz Resolution Bandwidth 10 Hz Video Bandwidth															
f	Dist	Read Pk	Read Avg	AF	CL	Amp	D Corr	HPF	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
GHz	feet	dBuV	dBuV	dB/m	dB	dB	dB		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	
4.874	3.3	55.8	45.5	33.9	5.8	-34.6	-9.5	1.0	52.4	42.1	74.0	54.0	-21.6	-11.9	Y
7.311	3.3	46.0	38.0	37.2	7.3	-34.6	-9.5	1.0	47.4	39.4	74.0	54.0	-26.6	-14.6	Y
4.874	3.3	51.6	38.7	33.9	5.8	-34.6	-9.5	1.0	48.2	35.3	74.0	54.0	-25.8	-18.7	H
7.311	3.3	46.0	38.0	37.2	7.3	-34.6	-9.5	1.0	47.4	39.4	74.0	54.0	-26.6	-14.6	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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 EMISSIONS (5.8 GHZ BAND, NORMAL MODE)

01/11/03 High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Neelish Raj and Frank Ibrahim
Project #: 02U1731
Company: AMBIT MICROSYSTEMS
EUT Descrip.: 802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP
EUT M/N: A/B/O CARD
Test Target: FCC
Mode Oper: Site Below

Test Equipment:

Cable (feet)	EMCO Horn 1-18GHz	Pre-amplifier 1-36GHz	Spectrum Analyzer	Horn > 18GHz
15	T72; S/N: 6739	Mini NSP2600-44	8566B Analyzer	

T72; S/N: 6717 HP8449B

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
HARMONICS FOR 5.745GHz															
11.490	3.3	46.5	36.2	39.7	9.3	-33.8	-9.5	1.0	53.2	42.9	74.0	54.0	-20.8	-11.1	Y
11.490	3.3	46.5	36.2	39.7	9.3	-33.8	-9.5	1.0	53.2	42.9	74.0	54.0	-20.8	-11.1	H
HARMONICS OF 5.785GHz															
11.570	3.3	38.8	29.5	39.7	9.3	-33.7	-9.5	1.0	45.5	36.2	74.0	54.0	-28.5	-17.8	Y
11.570	3.3	38.6	29.1	39.7	9.3	-33.7	-9.5	1.0	45.3	35.8	74.0	54.0	-28.7	-18.2	H
HARMONICS FOR 5.825GHz															
11.650	3.3	46.5	36.2	39.6	9.3	-33.7	-9.5	1.0	53.3	43.0	74.0	54.0	-20.7	-11.0	Y
11.650	3.3	46.5	36.2	39.6	9.3	-33.7	-9.5	1.0	53.3	43.0	74.0	54.0	-20.7	-11.0	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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 EMISSIONS (5.8 GHZ BAND, TURBO MODE)

01/11/03 High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Test Eng:		Neelish Raj and Frank Ibrahim													
Project #:		02U1731													
Company:		AMBIT MICROSYSTEMS													
EUT Descrip.:		802.11 A/B/G MINI PCI CARD WITH AGENCY SERIES PP2170 LAPTOP													
EUT M/N:		A/B/G CARD													
Test Target:		PC													
Mode Oper:		See Below													
Test Equipment:															
Cable (feet)		EMCO Horn 1-18GHz		Pre-amplifier 1-36GHz		Spectrum Analyzer		Horn > 18GHz							
15		T72; S/N: 6739		Mini NSP2600-44		8866B Analyzer									
		T73; S/N: 6717		HP8449B											
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 dBm	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
HARMONICS 5.76GHz TURBO															
11.520	3.3	46.5	36.2	39.7	9.3	-33.8	-9.5	1.0	53.2	42.9	74.0	54.0	-20.8	-11.1	V
11.520	3.3	46.5	36.2	39.7	9.3	-33.8	-9.5	1.0	53.2	42.9	74.0	54.0	-20.8	-11.1	H
HARMONICS OF 5.8GHz TURBO															
11.600	3.3	38.6	29.0	39.7	9.3	-33.7	-9.5	1.0	45.3	35.7	74.0	54.0	-28.7	-18.3	V
11.600	3.3	38.3	29.2	39.7	9.3	-33.7	-9.5	1.0	45.0	35.9	74.0	54.0	-29.0	-18.1	H
NOTE: NO OTHER HARMONICS OR SPURIOUS EMISSIONS WITHIN RESTRICTED BANDS 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										

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.

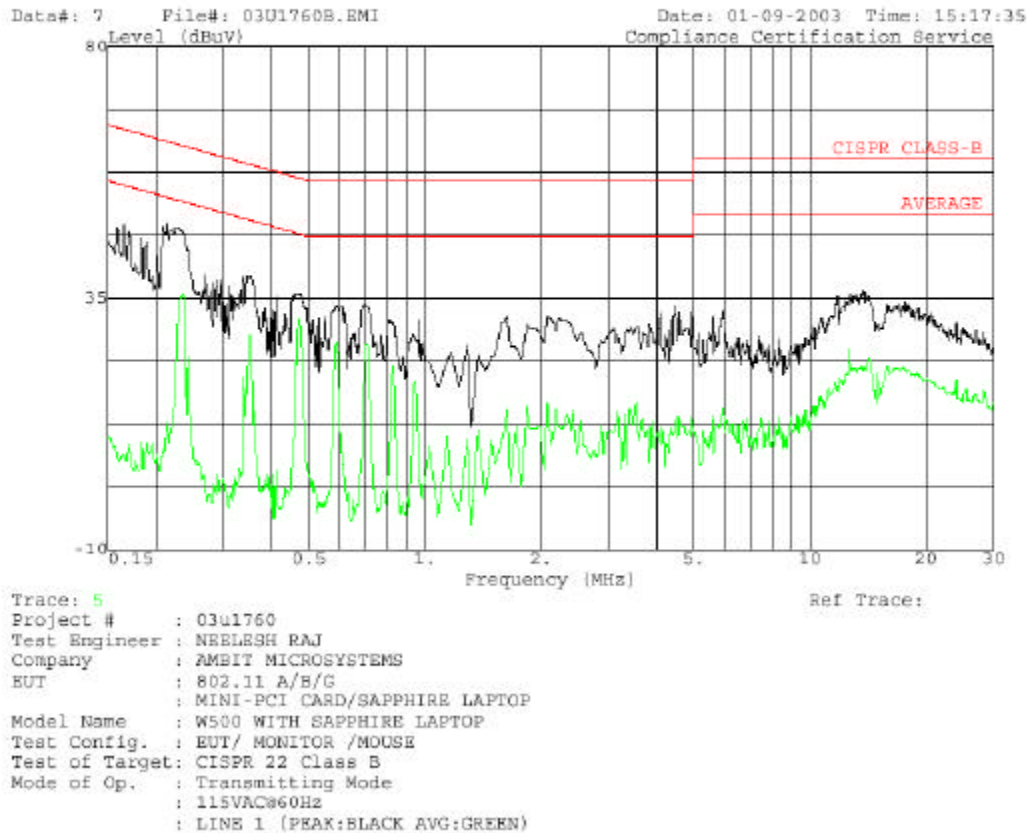
RESULTS

No non-compliance noted:

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN_B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.21	48.42	--	12.85	0.00	64.17	54.17	-15.75	-41.32	L1
0.17	48.12	--	6.84	0.00	65.57	55.57	-17.45	-48.73	L1
0.18	45.84	--	9.16	0.00	65.06	55.06	-19.22	-45.90	L1
0.21	52.82	--	11.35	0.00	64.43	54.43	-11.61	-43.08	L2
0.22	49.76	--	13.66	0.00	64.09	54.09	-14.33	-40.43	L2
0.35	40.55	--	29.86	0.00	60.17	50.17	-19.62	-20.31	L2
6 Worst Data									

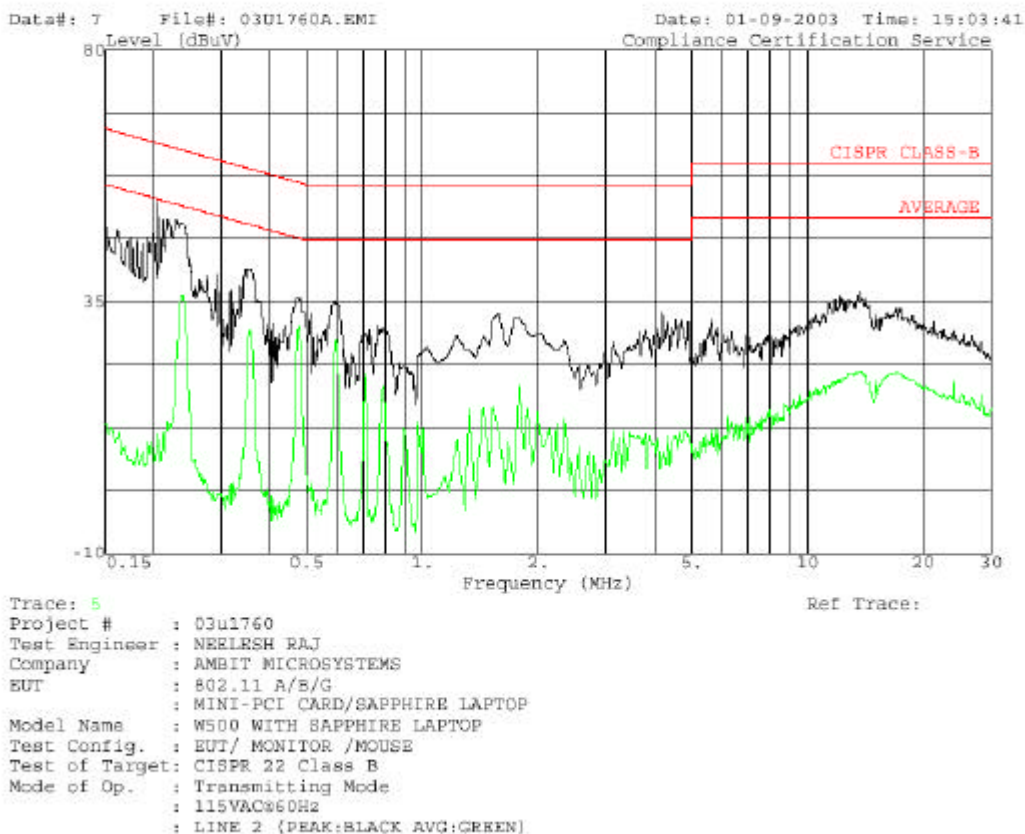


561F Monterey Road,
San Jose, CA 95037 USA
Tel: (408) 463-0885
Fax: (408) 463-0888



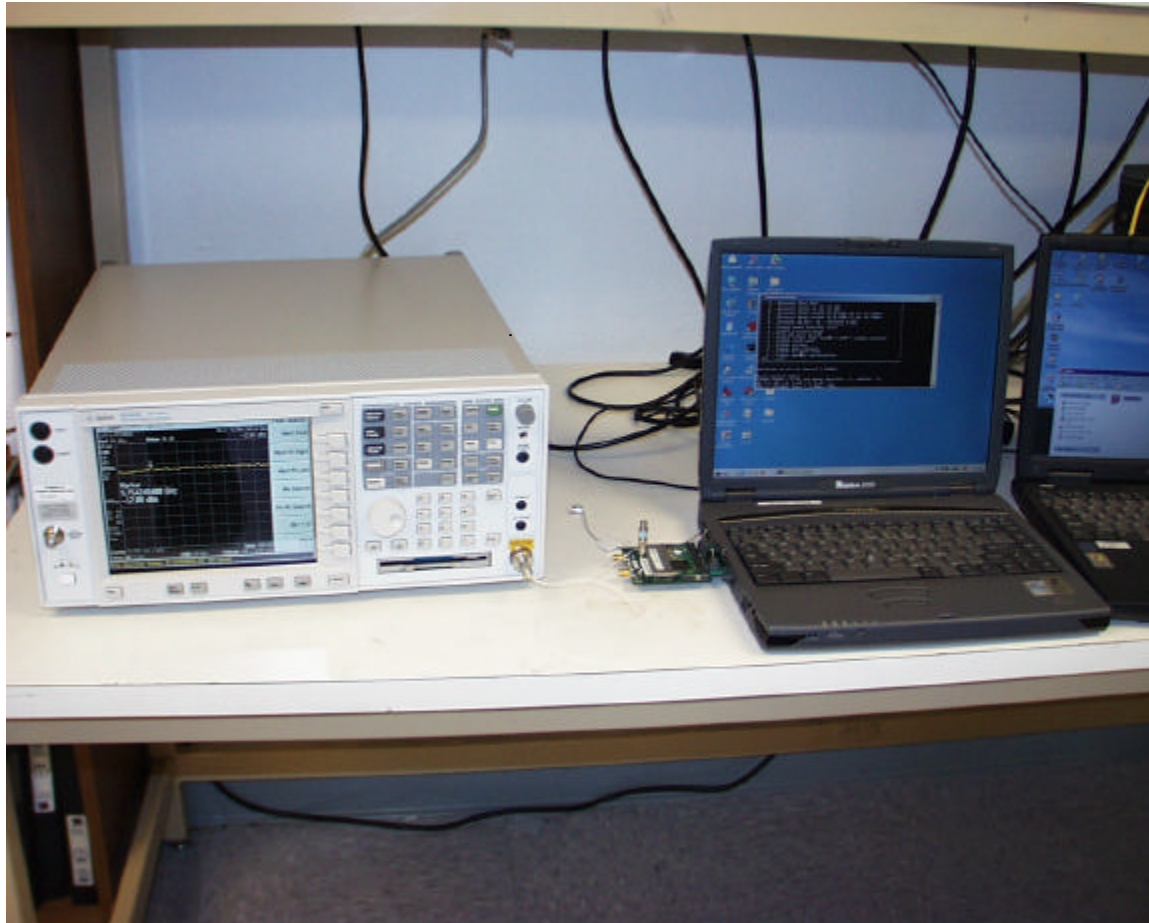


561F Monterey Road,
San Jose, CA 95037 USA
Tel: (408) 463-0885
Fax: (408) 463-0888



8.9. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



RADIATED RF MEASUREMENT SETUP





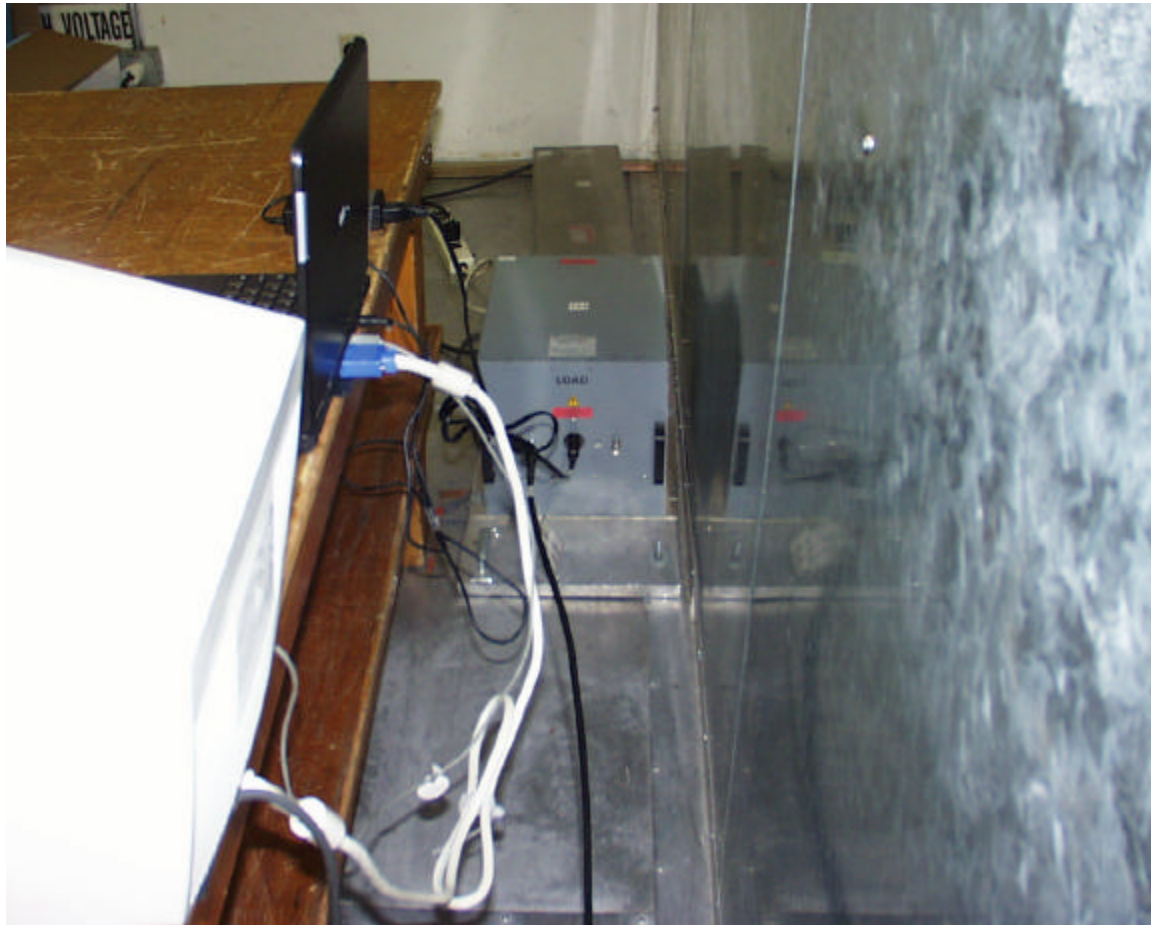
DIGITAL DEVICE RADIATED EMISSIONS MEASUREMENT SETUP





POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP





END OF REPORT