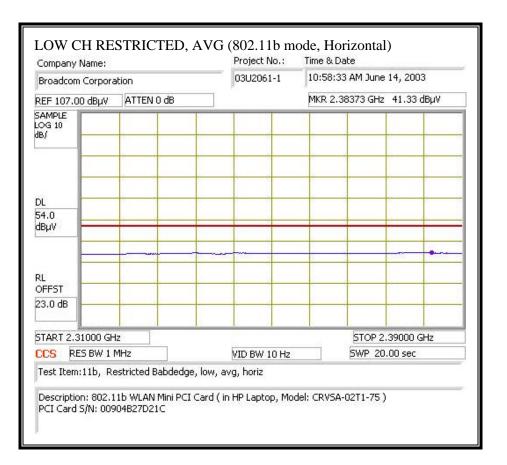
### 7.6.2. RADIATED EMISSIONS WITH CRVSA-02T-75 HOST COMPUTER:

### RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)

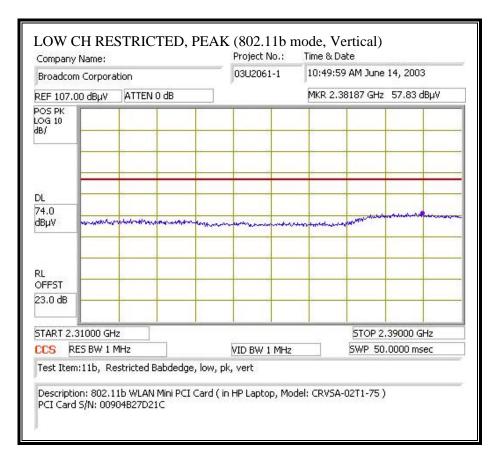
Broadco	m Corpora	ation		03U20	)61-1	10:56:4	41 AM June 14, 2003			
REF 107.	00 dBµV	ATTEN	10 dB	1		MKR 2.	38347 GHz	56.67 d	lBμV	
POS PK LOG 10 dB/										
d,										
DL 74.0	_	-		-	-					
dBµV	phone and a second			all the should be a set	ummer	materia	monorman	un norden	Rubman	
RL OFFST					_					
23.0 dB										
START 2.	.31000 GH	iz			-	-	STOP 2.	39000 Gł	Hz	
CCS R	ES BW 1 M	MHz		VID BV	VID BW 1 MHz			SWP 50.0000 msec		
Test Iter	n:11b, Re	estricted	Babdedge, lo	/w, pk, horiz						

Page 51 of 79

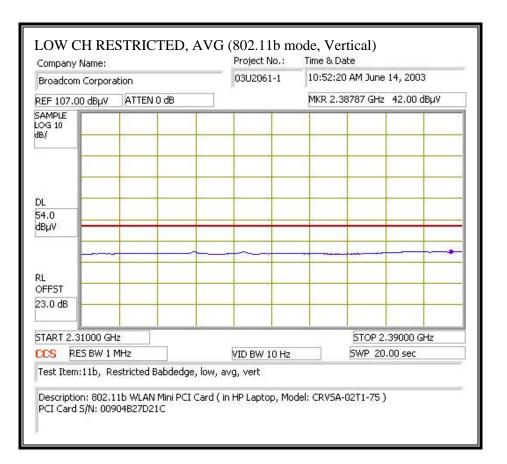


Page 52 of 79

### RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)

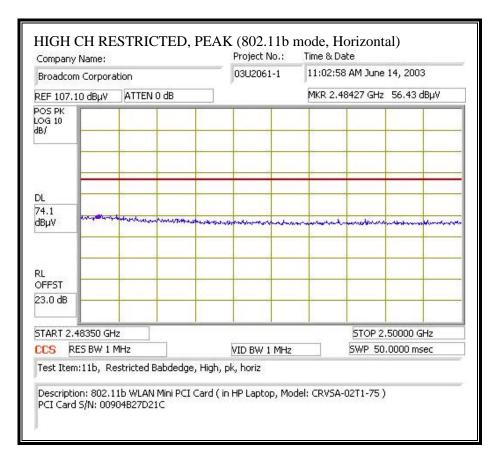


Page 53 of 79

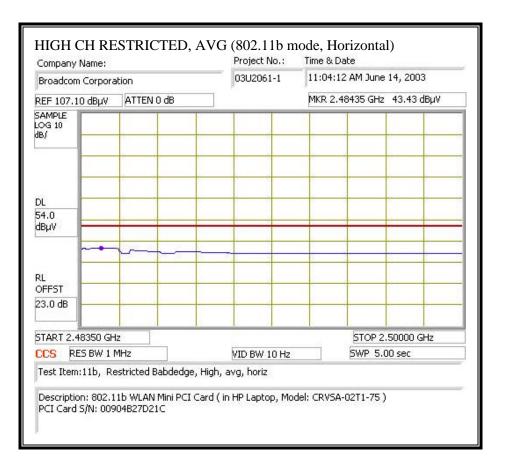


Page 54 of 79

### RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)

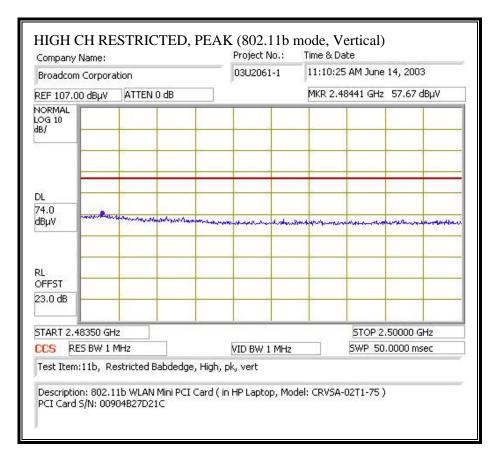


Page 55 of 79

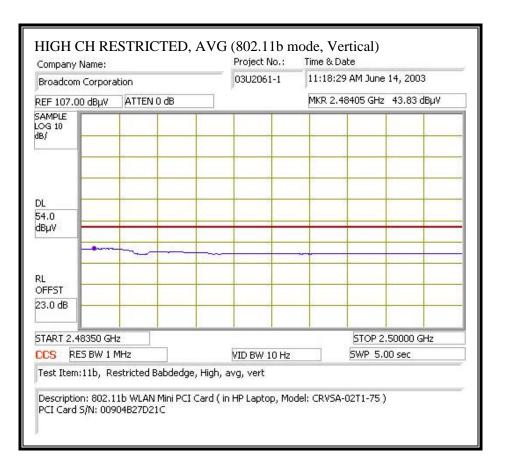


Page 56 of 79

### RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)



Page 57 of 79



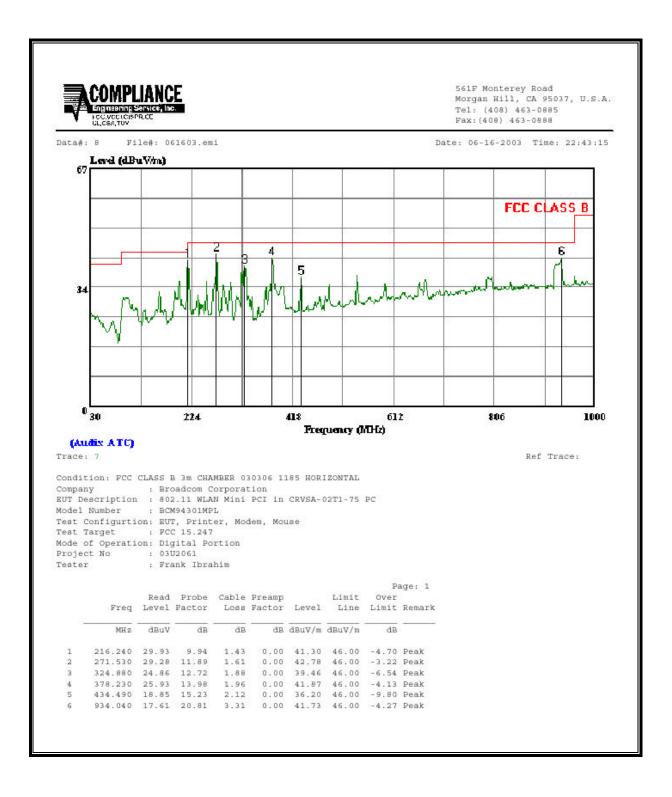
Page 58 of 79

#### HARMONICS AND SPURIOUS EMISSIONS

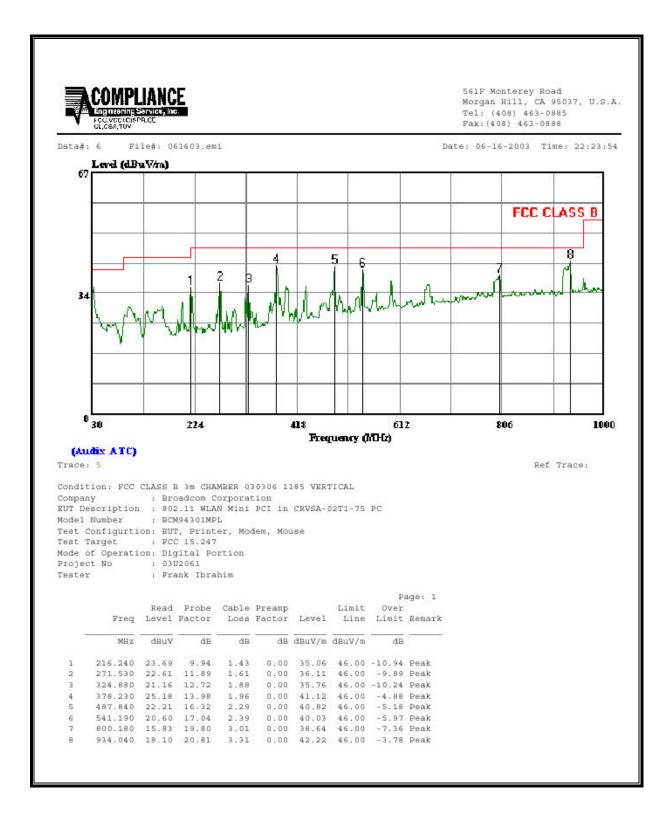
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mode Oper: TX     EXCO Horn 1-18GHz   Fre-amplifer 1-26GHz   Spectrum Analyzer   Horn > 18GHz     Too; StN: 2238 @ 3n   Pre-amplifer 1-26GHz   Spectrum Analyzer   Horn > 18GHz     I "I "requency Cables   Cables   Mage: Cables     Cables   Data for (4-6 ft) \$\mathcal{T}(12 ft)   Deak Measurements: 1 MHz Resolution Brandwidth   Average Measurements: 1 MHz Resolution Brandwidth     Cables   Data for (4-6 ft) \$\mathcal{T}(12 ft)   Deak Measurements: 1 MHz Resolution Brandwidth     Cables   Data for (4-6 ft) \$\mathcal{T}(12 ft)   Deak Measurements: 1 MHz Resolution Brandwidth     Cables   Data for (4-6 ft) \$\mathcal{T}(12 ft)   Deak Measurements: 1 MHz Resolution Brandwidth     Cables   Data for (4-6 ft) \$\mathcal{T}(12 ft)   Mage: Cables     Teak Measurements: 1 MHz Resolution Brandwidth   Other MPF Peak dbuv/m dbuv/	Mode Oper:T Fest Equipme EMCO Horn	'X ent:														
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	EMCO Horn	_														
ENCO Horn 1-18GHzToto: S/N: 2238 @ 3mPre-amplifer 1-26GHzSpectrum AnalyzerHorn > 18GHz $d(t)$ : S/N: 2238 @ 3m $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ : S/N: 2238 @ 3m $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ : S/N: 2238 @ 3m $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ $d(t)$ : $d(t)$ : $d(t)$ : $d(t)$ : $d$	ENCO Horn 1-18CHz T60; S/N: 2238 @3m Pre-amplifer 1-26GHz T86 Miteq 924341 Spectrum Analyzer Agilent 8564E AnalyzerHorn > 18GHzToto: S/N: 2238 @3m Pre-amplifer 1-26GHz T86 Miteq 924341 Spectrum Analyzer Image: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8564E Analyzer Horn > 18GHzImage: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8264E Analyzer Pre-amplifer 1-26GHz Tglent 8564E Analyzer Image: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8264E Analyzer Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Pre-amplifer 1-26GHz Tglent 8264E Analyzer Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Image: Set the system colspan="4">Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Image: Set the system colspan="4">Notes Tglent 8264E Analyzer Image: Set the system colspan="4">Image: Set the system colspan="4">Image: Set the system colspan="4">Image: Set the system colspan="4">Image: Set the system colspan="4" <th colspan<="" th=""><th>EMCO Horn</th><th>_</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th>EMCO Horn</th> <th>_</th> <th></th>	EMCO Horn	_													
The million is bound in the sound in the	Interpretation in statute     Interpretation in statute <th< th=""><th></th><th>1 1-18GHz</th><th></th><th></th><th></th><th></th><th>Spectrum A</th><th>nalvzer</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>		1 1-18GHz					Spectrum A	nalvzer								
If requeres Cables   Peak Measurements: 1 MHz Resolution Bandwidth   Average Measurements: 1 MHz Resolution Bandwidth 1 MHz Video Bandwidth   I MHz Resolution Bandwidth 1 MHz Video Bandwidth     Image: the transmisting at low channel   Arrow (1 - 6)   Arrow (1 - 6)   Arrow (1 - 6)   Notes     Image: transmitting at low channel   Arrow (1 - 6)     Image: transmitting at low channel   Arrow (1 - 6)   A	If Proquency Cables   Peak Measurements: I MHz Resolution Bandwidth IMHz Video Bandwidth IMHz Video Bandwidth   Average Measurements: I MHz Resolution Bandwidth IOHZ Video Bandwidth <b>f</b> <b>GHz</b> <b>feet</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b> <b>dBuV</b>	100,0/10/22				±z						Horn > 18	GHz	_			
Image: Construction of Constructing Construction of Construction of Constructio	Image: Constraint of the constraint		.58 @5111	100 Miles	924341	-											
GHz     feet     dBuV     dBuV     dB/m     dB     dB     dB     dBuV/m     dBuV/m     dBuV/m     dB     dB     dB       Transmitting at low channet     Image: state of the state state of the state of the state o	GHz     feet     dBuV     dB/m     dB     dB     dB     dB/V/m     dBuV/m     dBuV/m     dB/m     dB     dB       Transmitting at low channel     5.0     48.0     33.1     3.9     45.6     0.0     1.0     57.4     40.4     74.0     54.0     -16.6     -13.6     V       4824     9.8     60.2     44.5     33.1     3.9     45.6     0.0     1.0     57.4     40.4     74.0     54.0     -21.4     -17.1     H       7.236     9.8     52.3     40.2     36.1     5.1     46.6     0.0     1.0     47.9     35.8     74.0     54.0     -21.4     -17.1     H       7.236     9.8     52.0     40.0     36.1     5.1     -46.6     0.0     1.0     47.6     35.6     74.0     54.0     -26.4     -18.4     H       7.236     9.8     63.2     47.7     33.1     4.0     -45.6     0.0     1.0     55.6     40.1     74.0			it) 🔲 (4 ~ 6 ft)	🗹 (12 ft)				1 MHz	Resolution B	andwidth	1 MHz Reso	lution Bandw				
GHz     feet     dBuV     dBuV     dB/m     dB     dB     dBuV/m     dBuV/m     dBuV/m     dB/m     dB     dB       Transmitting at low channet     Image: State of the state state of the state of the state state of the state state state o	GHz     feet     dBuV     dB/m     dB     dB     dB     dB/V/m     dBuV/m     dBuV/m     dB/m     dB     dB       Transmitting at low channel     1	£ D:	-4 D 1		AF	CI		D Com	UDE	Deele	A	Die I terr	A T	DI- M	A M	N-4	
4824     9.8     60.2     44.5     33.1     3.9     -45.6     0.0     1.0     52.6     36.9     74.0     54.0     -21.4     -17.1     H       7.236     9.8     52.0     40.2     36.1     5.1     -46.6     0.0     1.0     47.9     35.8     74.0     54.0     -26.1     -18.2     V       7.236     9.8     52.0     40.0     36.1     5.1     -46.6     0.0     1.0     47.6     35.8     74.0     54.0     -26.4     -18.4     H       Transmitting at mid channel              54.0     -26.4     -18.4     H       4.874     9.8     60.2     45.5     33.1     4.0     45.6     0.0     1.0     52.6     40.1     74.0     54.0     -21.4     -16.1     H       7.311     9.8     52.0     39.8     36.2     5.2     -46.6     0.0     1.0     47.8     35.6	4824     9.8     65.0     48.0     33.1     3.9     45.6     0.0     1.0     57.4     40.4     74.0     54.0     -16.6     -13.6     V       4.824     9.8     60.2     44.5     33.1     3.9     45.6     0.0     1.0     52.6     36.9     74.0     54.0     -26.1     -18.2     V       7.236     9.8     52.3     40.0     36.1     5.1     46.6     0.0     1.0     47.9     35.8     74.0     54.0     -26.1     -18.2     V       7.236     9.8     52.0     40.0     36.1     5.1     -46.6     0.0     1.0     47.6     35.6     74.0     54.0     -26.1     -18.4     H       Transmitting at mid channel								HPF		0					INOLES	
4824     9.8     60.2     44.5     33.1     3.9     -45.6     0.0     1.0     52.6     36.9     74.0     54.0     -21.4     -17.1     H       7.236     9.8     52.0     40.0     36.1     5.1     -46.6     0.0     1.0     47.9     35.8     74.0     54.0     -26.1     -18.2     V       7.236     9.8     52.0     40.0     36.1     5.1     -46.6     0.0     1.0     47.9     35.8     74.0     54.0     -26.4     -18.4     H       Transmitting at mid channel     -	4824   9.8   60.2   44.5   33.1   3.9   45.6   0.0   1.0   52.6   36.9   74.0   54.0   -21.4   -17.1   H     7.236   9.8   52.0   40.0   36.1   5.1   -46.6   0.0   1.0   47.9   35.8   74.0   54.0   -26.4   -18.2   V     7.236   9.8   52.0   40.0   36.1   5.1   -46.6   0.0   1.0   47.6   35.6   74.0   54.0   -26.4   -18.4   H     Transmitting at mid channel                 43.0   -26.4   -18.4   H   H     4874   9.8   60.2   45.5   33.1   4.0   -45.6   0.0   1.0   52.6   30.0   -18.4   -13.9   V     7.311   9.8   52.6   40.0   36.2   5.2   -46.6   0.0   1.0   47.8   35.6   74.0   54.0   -26.2   -18.4   H   49.24																
7.236   9.8   52.3   40.2   36.1   5.1   -46.6   0.0   1.0   47.9   35.8   74.0   54.0   -26.1   -18.2   V     7.236   9.8   52.0   40.0   36.1   5.1   -46.6   0.0   1.0   47.9   35.8   74.0   54.0   -26.1   -18.2   V     7.236   9.8   52.0   40.0   36.1   5.1   -46.6   0.0   1.0   47.6   35.6   74.0   54.0   -26.1   -18.2   V     7.236   9.8   63.2   47.7   33.1   4.0   -45.6   0.0   1.0   55.6   40.1   74.0   54.0   -18.4   -13.9   V     4874   9.8   60.2   45.5   33.1   4.0   -45.6   0.0   1.0   55.6   40.1   74.0   54.0   -18.4   -13.9   V     4874   9.8   60.2   45.2   33.1   4.0   -45.6   0.0   1.0   47.8   35.6   74.0   54.0   -26.2   -18.2   V    73	7.236   9.8   52.3   40.2   36.1   5.1   -46.6   0.0   1.0   47.9   35.8   74.0   54.0   -26.1   -18.2   V     7.236   9.8   52.0   40.0   36.1   5.1   -46.6   0.0   1.0   47.9   35.8   74.0   54.0   -26.1   -18.2   V     7.236   9.8   52.0   40.0   36.1   5.1   -46.6   0.0   1.0   47.6   35.6   74.0   54.0   -26.4   -18.4   H     Framsmiting at mid channel   40.4   -45.6   0.0   1.0   55.6   40.1   74.0   54.0   -18.4   -13.9   V     4874   9.8   60.2   45.5   33.1   4.0   -45.6   0.0   1.0   55.6   40.1   74.0   54.0   -26.4   -18.4   H     7.311   9.8   52.0   39.8   36.2   52.   -46.6   0.0   1.0   47.8   35.6   74.0   54.0   -26.2   -18.4   H     Gransmitting at high channel   52.0																
Fransmitting at mid channel   v   v   v   v   v   v   v   v     1874   9.8   63.2   47.7   33.1   4.0   -45.6   0.0   1.0   55.6   40.1   74.0   54.0   -18.4   -13.9   V     1874   9.8   60.2   45.5   33.1   4.0   -45.6   0.0   1.0   52.6   40.1   74.0   54.0   -21.4   -16.1   H     7311   9.8   52.6   40.0   36.2   5.2   -46.6   0.0   1.0   48.4   35.8   74.0   54.0   -21.4   -16.1   H     7311   9.8   52.0   39.8   36.2   5.2   -46.6   0.0   1.0   48.4   35.8   74.0   54.0   -25.2   -18.4   H     17ansmitting at high channel	Framsmitting at mid channel   v <t< td=""><td>7.236 9.8</td><td>.8 52.3</td><td>40.2</td><td>36.1</td><td>5.1</td><td>-46.6</td><td>0.0</td><td>1.0</td><td>47.9</td><td>35.8</td><td>74.0</td><td>54.0</td><td>-26.1</td><td>-18.2</td><td>V</td></t<>	7.236 9.8	.8 52.3	40.2	36.1	5.1	-46.6	0.0	1.0	47.9	35.8	74.0	54.0	-26.1	-18.2	V	
1874     9.8     63.2     47.7     33.1     4.0     -45.6     0.0     1.0     55.6     40.1     74.0     54.0     -18.4     -13.9     V       1874     9.8     60.2     45.5     33.1     4.0     -45.6     0.0     1.0     55.6     37.9     74.0     54.0     -18.4     -13.9     V       1874     9.8     52.6     40.0     36.2     52     46.6     0.0     1.0     48.4     35.8     74.0     54.0     -26.2     -18.2     V       1311     9.8     52.0     39.8     36.2     52     -46.6     0.0     1.0     47.8     35.6     74.0     54.0     -26.2     -18.2     V       1311     9.8     55.0     42.8     33.2     4.0     -45.7     0.0     1.0     47.8     35.6     74.0     54.0     -26.2     -18.4     H       1924     9.8     55.0     42.8     33.2     4.0     -45.7     0.0     1.0	1874     9.8     63.2     47.7     33.1     4.0     -45.6     0.0     1.0     55.6     40.1     74.0     54.0     -18.4     -13.9     V       1874     9.8     60.2     45.5     33.1     4.0     -45.6     0.0     1.0     55.6     37.9     74.0     54.0     -21.4     -16.1     H       1311     9.8     52.6     40.0     36.2     52     46.6     0.0     1.0     48.4     35.8     74.0     54.0     -26.2     -18.4     H       7ransmitting at high channel				36.1	5.1	-46.6	0.0	1.0	47.6	35.6	74.0	54.0	-26.4	-18.4	Н	
4874   9.8   60.2   45.5   33.1   4.0   -45.6   0.0   1.0   52.6   37.9   74.0   54.0   -21.4   -16.1   H     7.311   9.8   52.0   39.8   36.2   5.2   -46.6   0.0   1.0   48.4   35.8   74.0   54.0   -25.6   -18.2   V     7.311   9.8   52.0   39.8   36.2   5.2   -46.6   0.0   1.0   47.8   33.6   74.0   54.0   -26.2   -18.2   V     7.311   9.8   52.0   39.8   36.2   5.2   -46.6   0.0   1.0   47.8   33.6   74.0   54.0   -26.2   -18.4   H     1924   9.8   58.0   44.0   33.2   4.0   -45.7   0.0   1.0   47.5   35.3   74.0   54.0   -26.5   18.7   H     7.386   9.8   52.0   39.8   36.3   5.2   -46.5   0.0   1.0   47.9   35.7   74.0   54.0   -26.1   -18.7   H     7.	4874   9.8   60.2   45.5   33.1   4.0   -45.6   0.0   1.0   52.6   37.9   74.0   54.0   -21.4   -16.1   H     7.311   9.8   52.0   39.8   36.2   5.2   -46.6   0.0   1.0   48.4   35.8   74.0   54.0   -25.6   -18.2   V     19.8   52.0   39.8   36.2   5.2   -46.6   0.0   1.0   47.8   35.6   74.0   54.0   -25.6   -18.2   V     1924   9.8   58.0   44.0   33.2   4.0   -45.7   0.0   1.0   47.8   35.5   74.0   54.0   -26.2   -18.7   H     1924   9.8   55.0   42.8   33.2   4.0   -45.7   0.0   1.0   47.5   35.3   74.0   54.0   -26.5   -18.7   H     7.386   9.8   51.5   39.4   36.3   5.2   -46.5   0.0   1.0   47.9   35.7   74.0   54.0   -26.6   -18.7   H   -33.8   V   3.8				33.1	4.0	45.6	0.0	1.0	55.6	40.1	74.0	54.0	18.4	13.0	v	
7.311   9.8   52.0   39.8   36.2   5.2   -46.6   0.0   1.0   47.8   35.6   74.0   54.0   -26.2   -18.4   H     Transmitting at high channel   - </td <td>7.311     9.8     52.0     39.8     36.2     5.2     46.6     0.0     1.0     47.8     35.6     74.0     54.0     -26.2     -18.4     H       Gramsmitting at high channel     4.0     45.7     0.0     1.0     47.8     35.6     74.0     54.0     -26.2     -18.4     H       4.924     9.8     58.0     44.0     33.2     4.0     45.7     0.0     1.0     50.5     36.5     74.0     54.0     -26.5     -18.7     H       4.924     9.8     55.0     42.8     33.2     4.0     45.7     0.0     1.0     47.5     35.3     74.0     54.0     -26.5     -18.7     H       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.6     -18.7     H       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.4     35.3     74.0</td> <td></td>	7.311     9.8     52.0     39.8     36.2     5.2     46.6     0.0     1.0     47.8     35.6     74.0     54.0     -26.2     -18.4     H       Gramsmitting at high channel     4.0     45.7     0.0     1.0     47.8     35.6     74.0     54.0     -26.2     -18.4     H       4.924     9.8     58.0     44.0     33.2     4.0     45.7     0.0     1.0     50.5     36.5     74.0     54.0     -26.5     -18.7     H       4.924     9.8     55.0     42.8     33.2     4.0     45.7     0.0     1.0     47.5     35.3     74.0     54.0     -26.5     -18.7     H       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.6     -18.7     H       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.4     35.3     74.0																
Fransmitting at high channel     v	Fransmitting at high channel     v																
4924     9.8     58.0     44.0     33.2     4.0     -45.7     0.0     1.0     50.5     36.5     74.0     54.0     -23.5     -17.5     V       4.924     9.8     55.0     42.8     33.2     4.0     -45.7     0.0     1.0     50.5     35.3     74.0     54.0     -23.5     -17.5     V       4.924     9.8     55.0     42.8     33.2     4.0     -45.7     0.0     1.0     47.5     35.3     74.0     54.0     -26.5     -18.7     H       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.1     -18.3     V       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.4     35.3     74.0     54.0     -26.6     -18.7     H       No other emissions were detected above the system noise floor.	4924     9.8     58.0     44.0     33.2     4.0     -45.7     0.0     1.0     50.5     36.5     74.0     54.0     -23.5     -17.5     V       4.924     9.8     55.0     42.8     33.2     4.0     -45.7     0.0     1.0     50.5     36.5     74.0     54.0     -26.5     -18.7     H       7.386     9.8     52.0     39.8     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.1     -18.3     V       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.6     -18.7     H       No other emissions were detected above the system noise floor.     -     6.0     1.0     47.4     35.3     74.0     54.0     -26.6     -18.7     H       No other emissions were detected above the system noise floor.     -     6.0     1.0     47.4     35.3     74.0     54.0     -26.6				36.2	5.2	-46.6	0.0	1.0	47.8	35.6	74.0	54.0	-26.2	-18.4	Н	
4.924     9.8     55.0     42.8     33.2     4.0     -45.7     0.0     1.0     47.5     35.3     74.0     54.0     -26.5     -18.7     H       7.386     9.8     52.0     39.8     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.1     -18.3     V       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.4     35.3     74.0     54.0     -26.6     -18.7     H       No other emissions were detected above the system 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     Field Strength     Pk Lim     Peak Limit     Pk Kar     Marg	4.924     9.8     55.0     42.8     33.2     4.0     -45.7     0.0     1.0     47.5     35.3     74.0     54.0     -26.5     -18.7     H       7.386     9.8     52.0     39.8     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.5     -18.7     H       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.6     -18.7     H       No other emissions were detected above the system noise floor.     f     Measurement Frequency     Amp     Preamp Gain     Avg Lim     Average Field Strength Limit     Pk     Lim     Peak Field Strength Limit       Dist     Distance to Antenna     D Corr     Distance Correct to 3 meters     Pk Lim     Peak Field Strength Limit       Aead     Analyzer Reading     Avg     Average Field Strength @ 3 m     Avg Mar Margin vs. Average Limit       AF     Antenna Factor     Peak     Calculated Peak Field Strength     Pk Mar     Marg				33.2	40	-45 7	0.0	1.0	50.5	36.5	74.0	54.0	-23.5	-17.5	v	
7.386     9.8     52.0     39.8     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.1     -18.3     V       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.1     -18.3     V       No other emissions were detected above the system 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 Kar     Margin vs. Peak Limit	7.386     9.8     52.0     39.8     36.3     5.2     46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.1     -18.3     V       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.9     35.7     74.0     54.0     -26.1     -18.3     V       7.386     9.8     51.5     39.4     36.3     5.2     -46.5     0.0     1.0     47.4     35.3     74.0     54.0     -26.6     -18.7     H       No other emissions were detected above the system 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	4.924 9.8	.8 55.0											-26.5			
No other emissions were detected above the system 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	No other emissions were detected above the system 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	7.386 9.8	.8 52.0	39.8	36.3	5.2	-46.5		1.0	47.9	35.7	74.0	54.0	-26.1	-18.3	V	
fMeasurement FrequencyAmpPreamp GainAvg LimAverage Field Strength LimitDistDistance to AntennaD CorrDistance Correct to 3 metersPk LimPeak Field Strength LimitReadAnalyzer ReadingAvgAverage Field Strength @ 3 mAvg MarMargin vs. Average LimitAFAntenna FactorPeakCalculated Peak Field StrengthPk MarMargin vs. Peak Limit	fMeasurement FrequencyAmpPreamp GainAvg LimAverage Field Strength LimitDistDistance to AntennaD CorrDistance Correct to 3 metersPk LimPeak Field Strength LimitReadAnalyzer ReadingAvgAverage Field Strength @ 3 mAvg Margin vs. Average LimitAFAntenna FactorPeakCalculated Peak Field StrengthPk MarMargin vs. Peak Limit	.380 9.8	.0 51.5	39.4	36.3	5.2	-46.5	0.0	1.0	4/.4	35.3	74.0	54.0	-26.6	<b>-18.</b> 7	н	
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	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	No other emissi	ions were de	tected above the	ystem nois	se floor.											
ReadAnalyzer ReadingAvgAverage Field Strength @ 3 mAvg MarMargin vs. Average LimitAFAntenna FactorPeakCalculated Peak Field StrengthPk MarMargin vs. Peak Limit	ReadAnalyzer ReadingAvgAverage Field Strength @ 3 mAvg MarMargin vs. Average LimitAFAntenna FactorPeakCalculated Peak Field StrengthPk MarMargin vs. Peak Limit				су												
AF Antenna Factor Peak Calculated Peak Field Strength Pk Mar Margin vs. Peak Limit	AF Antenna Factor Peak Calculated Peak Field Strength Pk Mar Margin vs. Peak Limit																
			-				•	•									
CL Cable Loss HPF High Pass Filter	CL Cable Loss HPF High Pass Filter								Margin vs	. Peak Limit							
		CL	Cable I	LOSS			HPF	High Pas	s Filter								

Page 59 of 79

#### **DIGITAL DEVICE EMISSIONS**



Page 60 of 79



Page 61 of 79

## 7.7. POWERLINE CONDUCTED EMISSIONS

### <u>LIMIT</u>

\$15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)				
	Quasi-peak	Average			
0.15-0.5	66 to 56	56 to 46			
0.5-5	56	46			
5-30	60	50			

Decreases with the logarithm of the frequency.

### TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 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:

Page 62 of 79

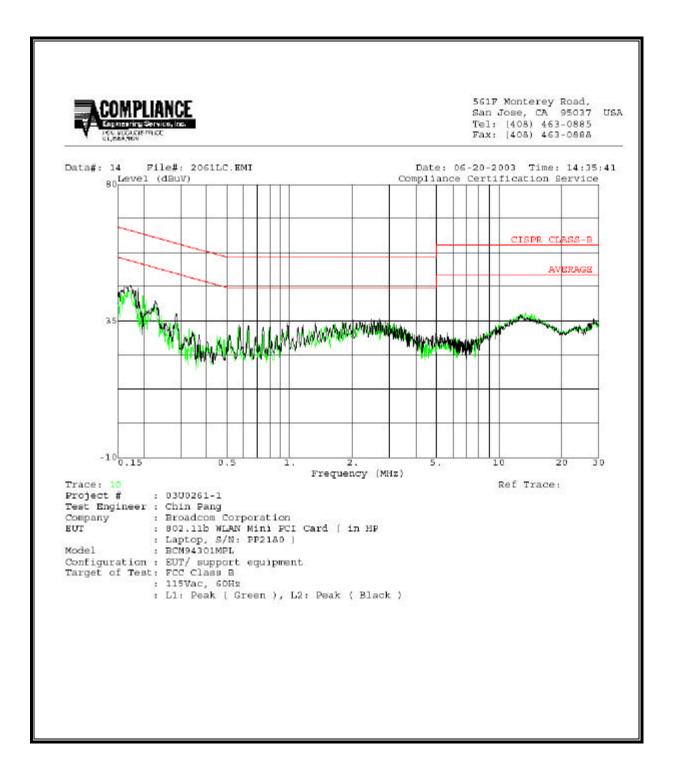
### 7.7.1. LINE CONDUCTION EMISSIONS WITH PP2180 HOST COMPUTER:

### **<u>6 WORST EMISSIONS</u>**

Freq.		Reading		Closs	Limit	EN_B	Mar	Remark	
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	( <b>dB</b> )	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.16	50.76			0.00	65.83	55.83	-15.07	-5.07	L1
0.19	49.60			0.00	64.77	54.77	-15.17	-5.17	L1
4.45	34.66			0.00	56.00	46.00	-21.34	-11.34	L1
0.15	51.33			0.00	65.91	55.91	-14.58	-4.58	L2
0.19	49.46			0.00	64.74	54.74	-15.28	-5.28	L2
4.72	35.04			0.00	56.00	46.00	-20.96	-10.96	L2
6 Worst I	Data								

Page 63 of 79

#### LINE RESULTS



Page 64 of 79

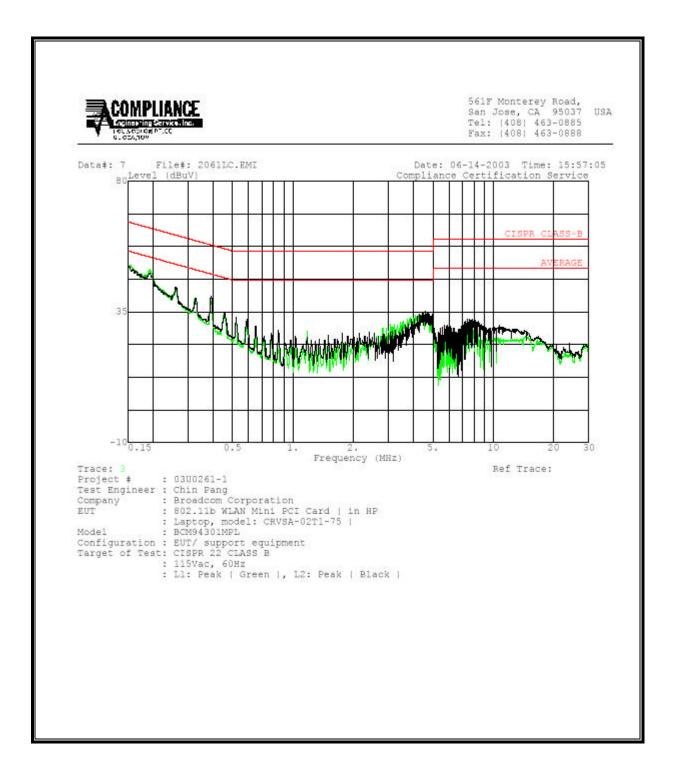
### 7.7.2. LINE CONDUCTION EMISSIONS WITH CRVSA-02T-75 HOST COMPUTER:

### **6 WORST EMISSIONS**

Freq.			Closs	Limit	EN_B	Mar	Remark		
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	( <b>dB</b> )	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.16	50.76			0.00	65.83	55.83	-15.07	-5.07	L1
0.19	49.60			0.00	64.77	54.77	-15.17	-5.17	L1
4.45	34.66			0.00	56.00	46.00	-21.34	-11.34	L1
0.15	51.33			0.00	65.91	55.91	-14.58	-4.58	L2
0.19	49.46			0.00	64.74	54.74	-15.28	-5.28	L2
4.72	35.04			0.00	56.00	46.00	-20.96	-10.96	L2
6 Worst ]									

Page 65 of 79

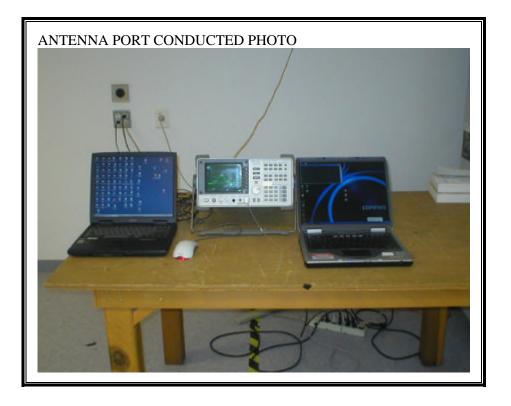
#### LINE RESULTS



Page 66 of 79

## 8. SETUP PHOTOS

### ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



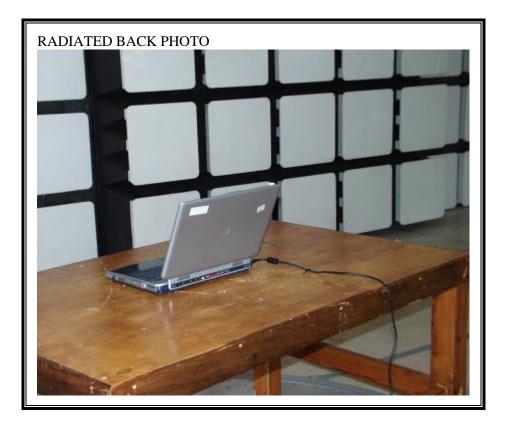
Page 67 of 79

### **RADIATED RF MEASUREMENT SETUP**

### HP CRVSA-02T-75



Page 68 of 79



Page 69 of 79

HP PP2180



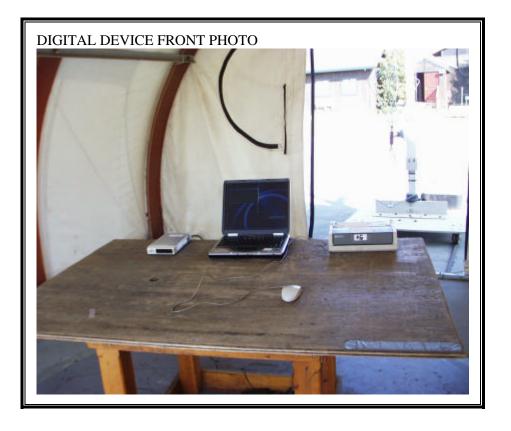
Page 70 of 79



Page 71 of 79

### DIGITAL DEVICE RADIATED EMISSIONS SETUP

### HP CRVSA-02T-75



Page 72 of 79



Page 73 of 79

#### HP PP2180



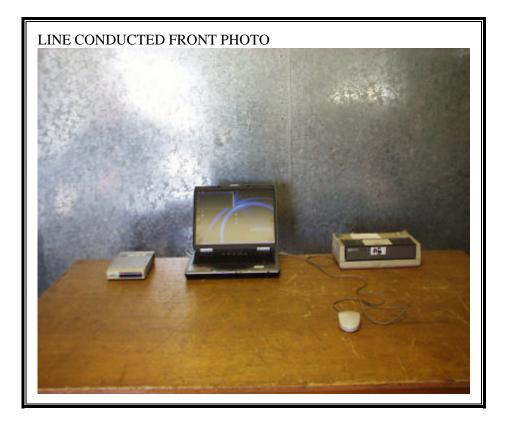
Page 74 of 79



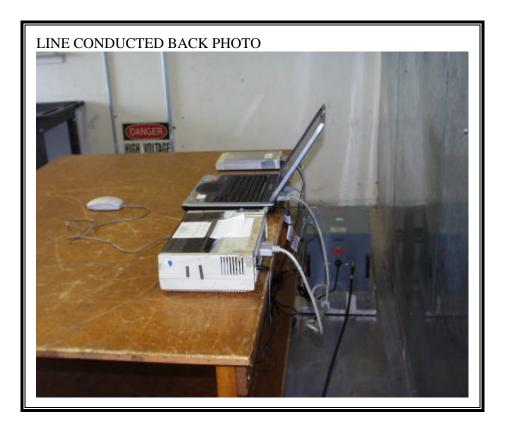
Page 75 of 79

### POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP

### HP CRVSA-02T-75



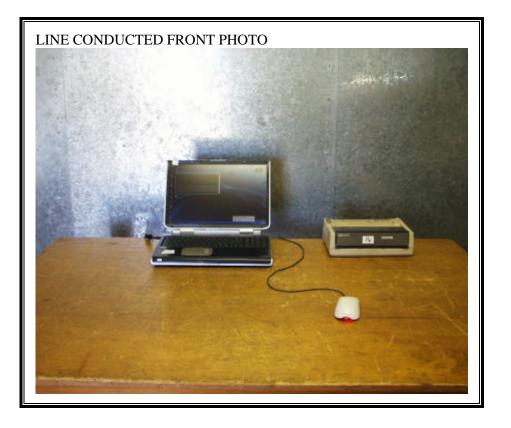
Page 76 of 79



Page 77 of 79

### POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP

#### HP PP2180



Page 78 of 79



# **END OF REPORT**

Page 79 of 79