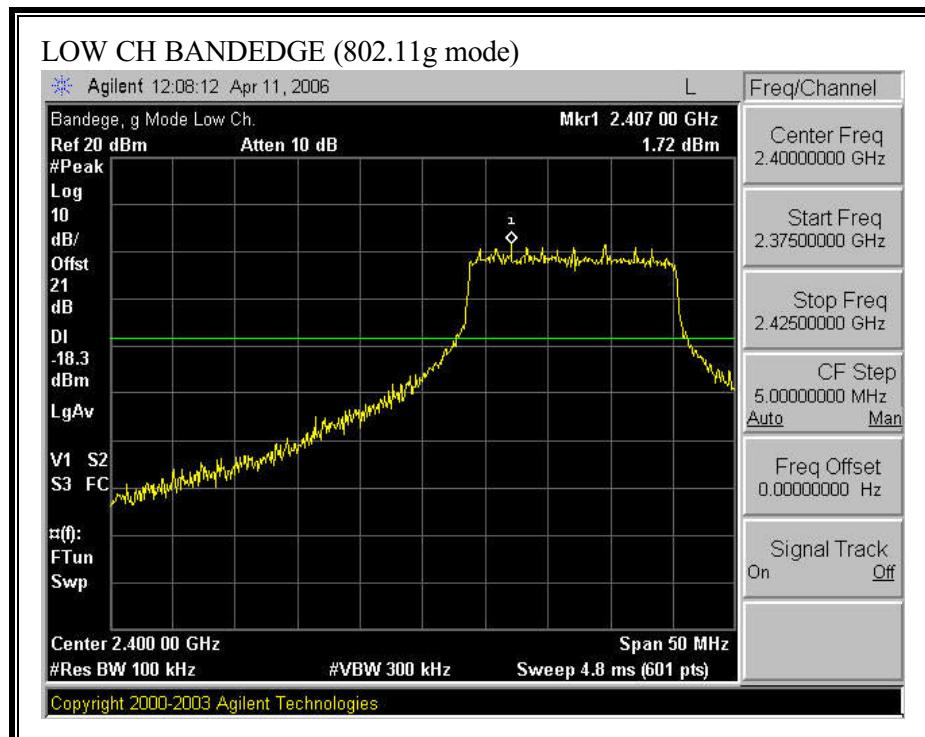
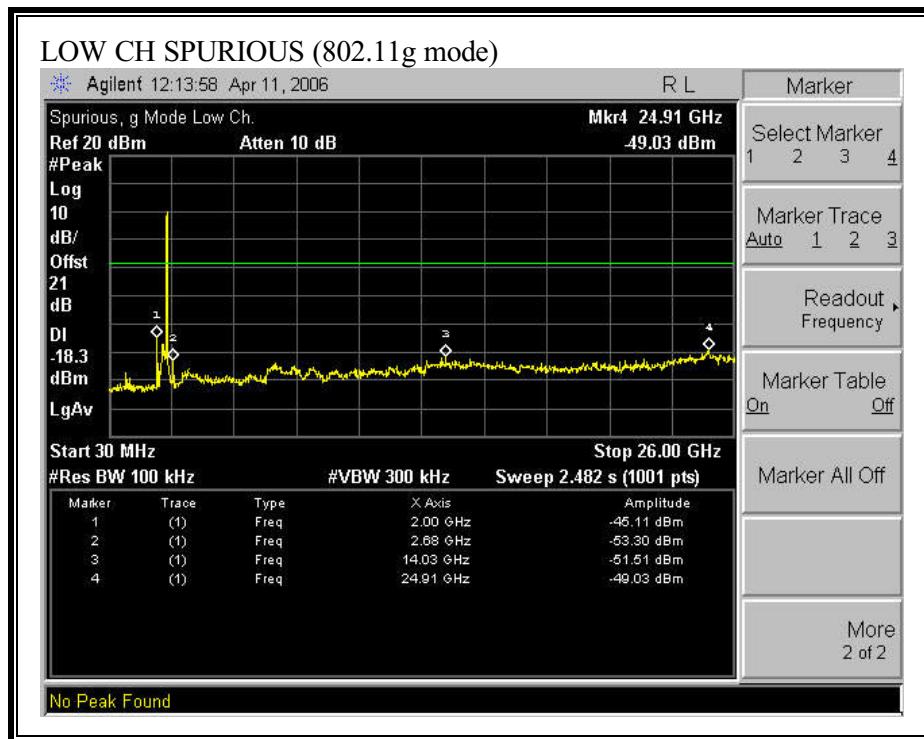
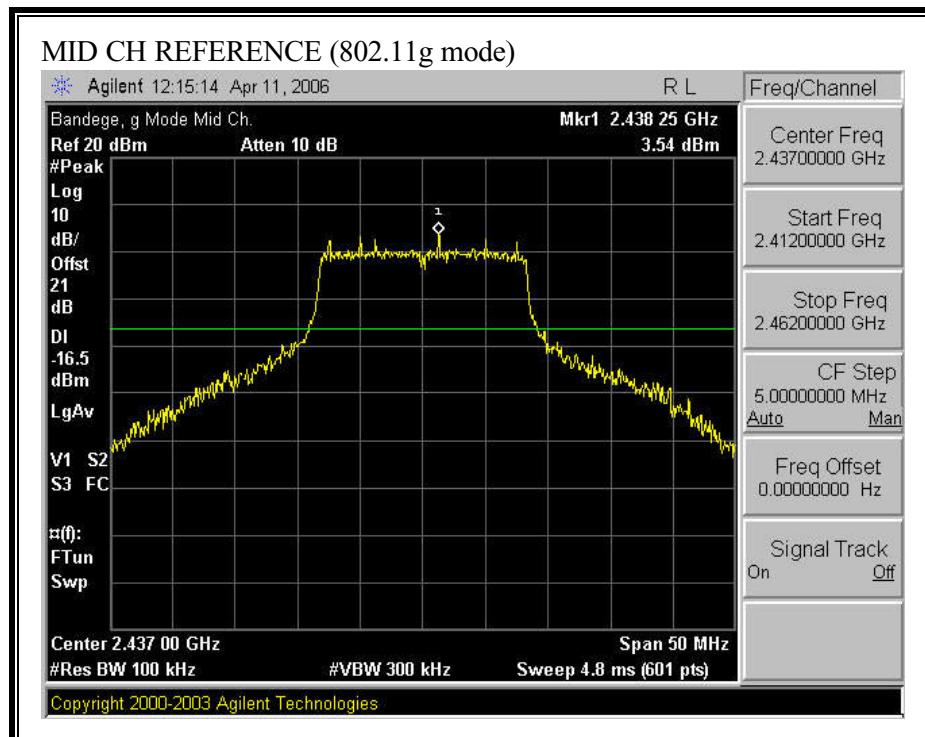


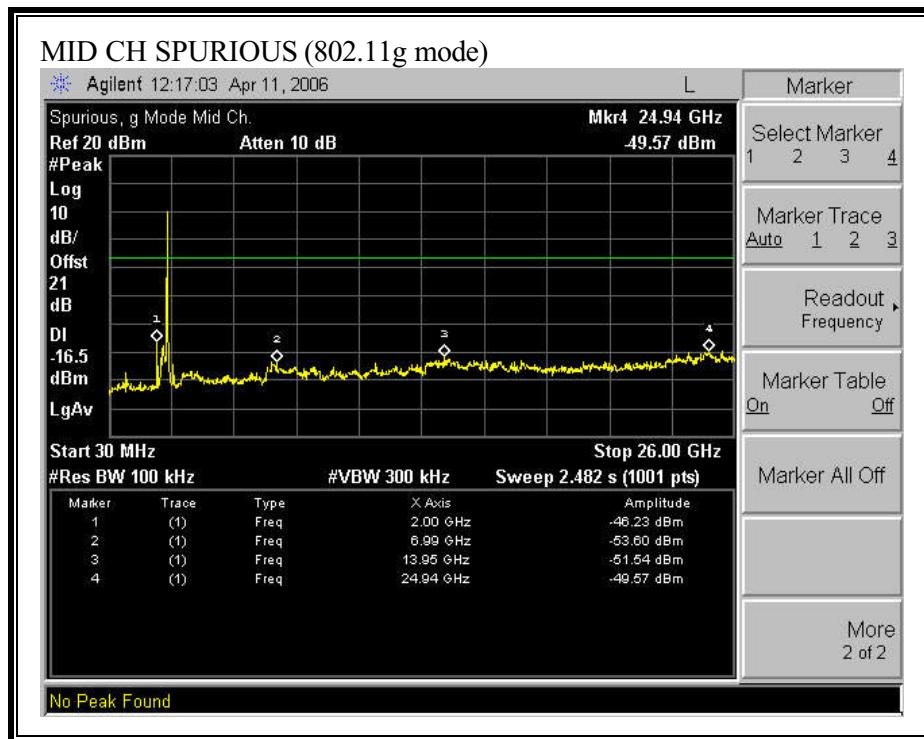
SPURIOUS EMISSIONS, LOW CHANNEL (802.11g MODE)



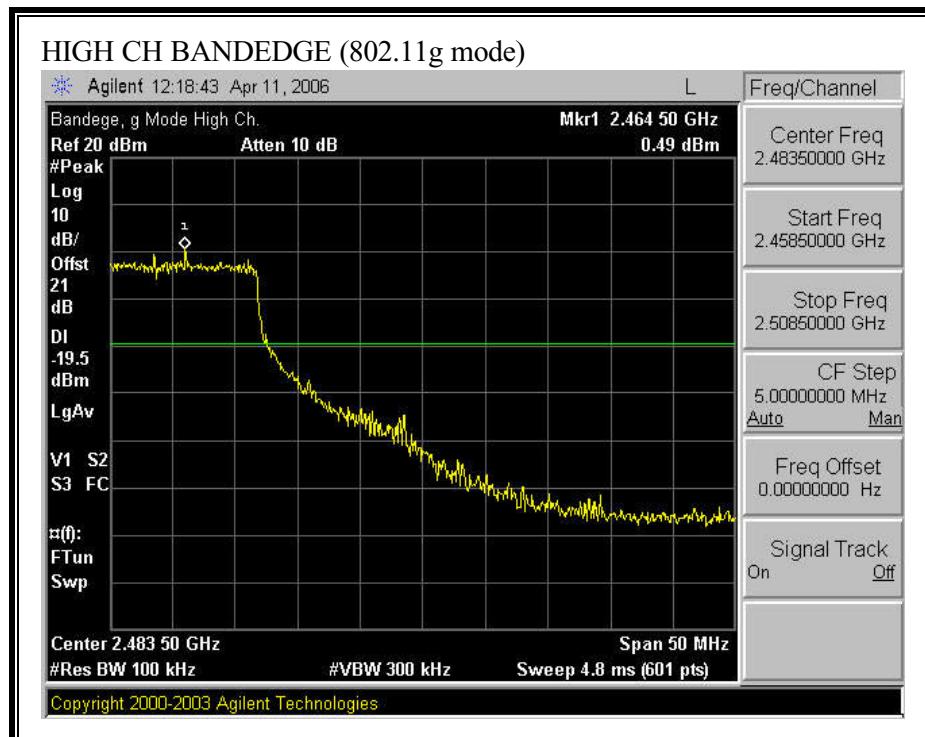


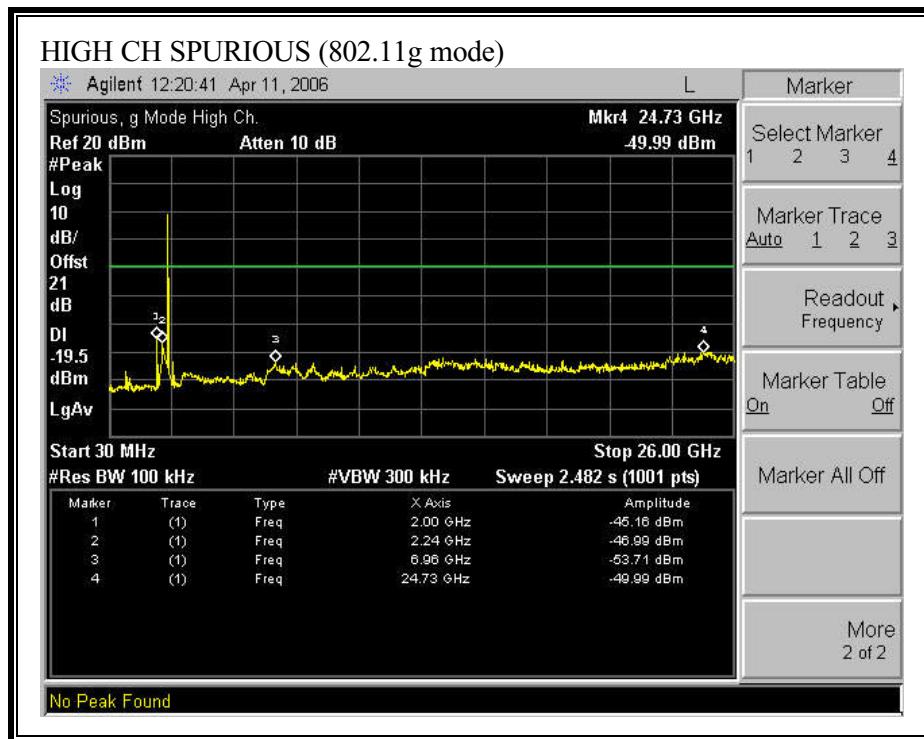
SPURIOUS EMISSIONS, MID CHANNEL (802.11g MODE)





SPURIOUS EMISSIONS, HIGH CHANNEL (802.11g MODE)





7.2. RADIATED EMISSIONS

7.2.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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.

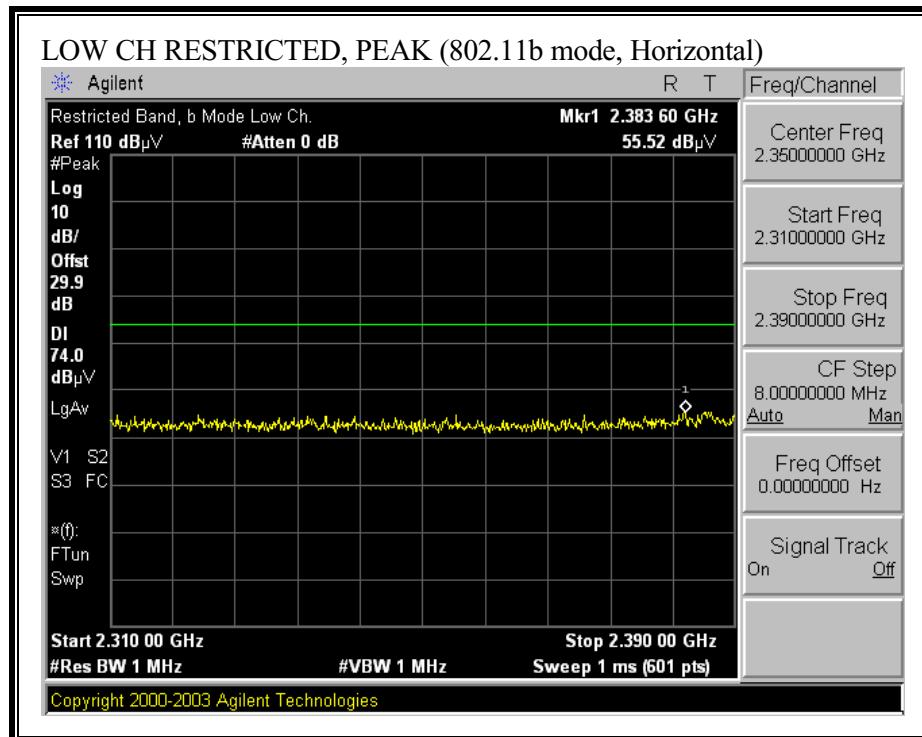
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

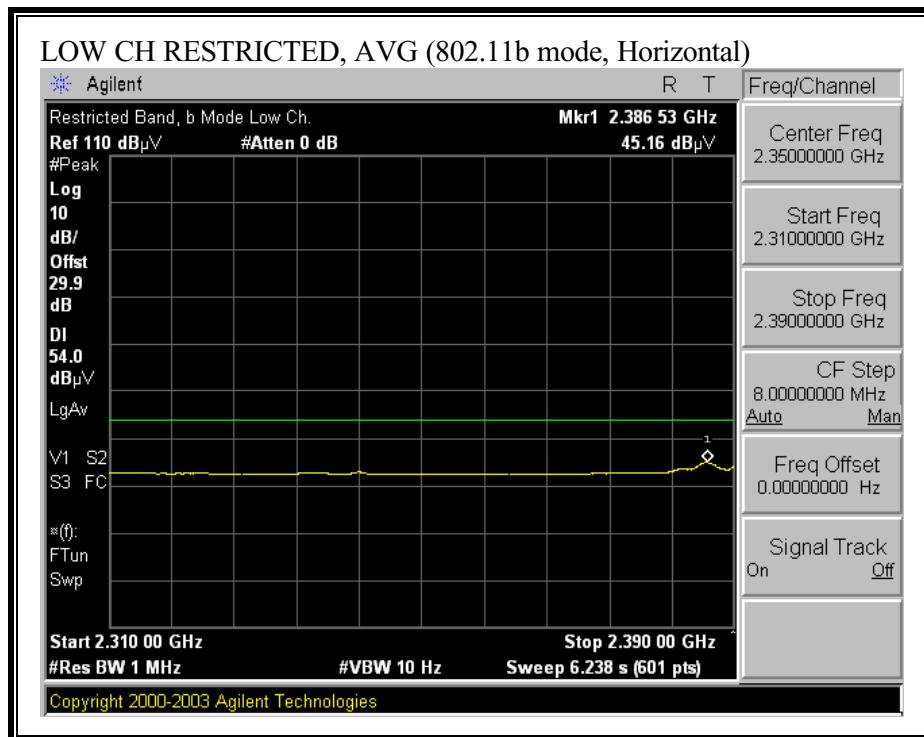
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. 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 emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

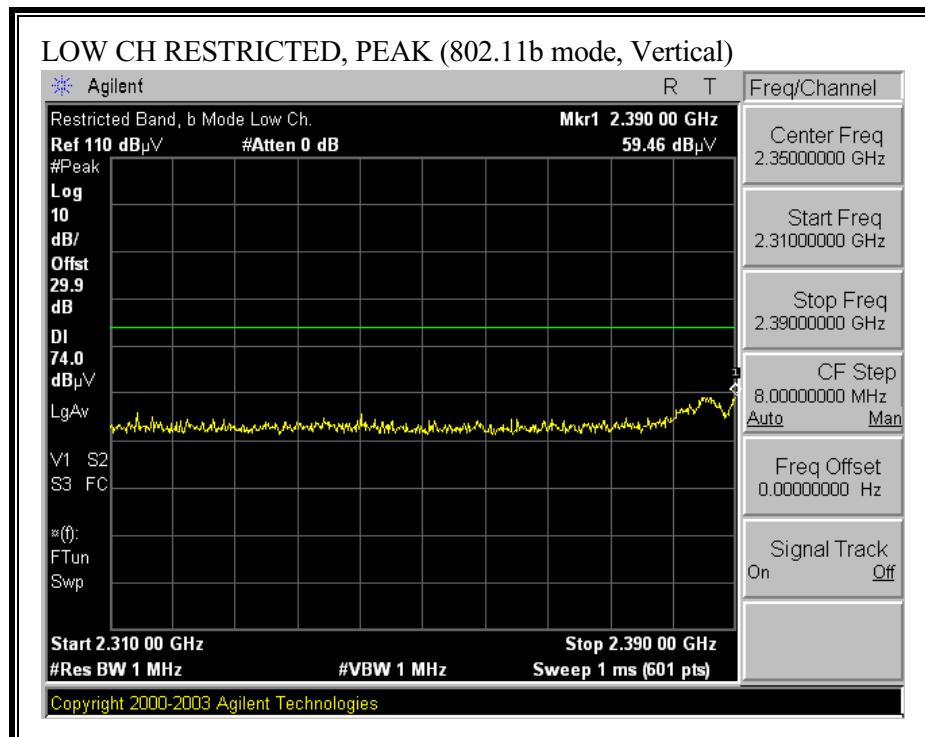
7.2.2. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BANDWIDTH INTERNAL ANTENNA

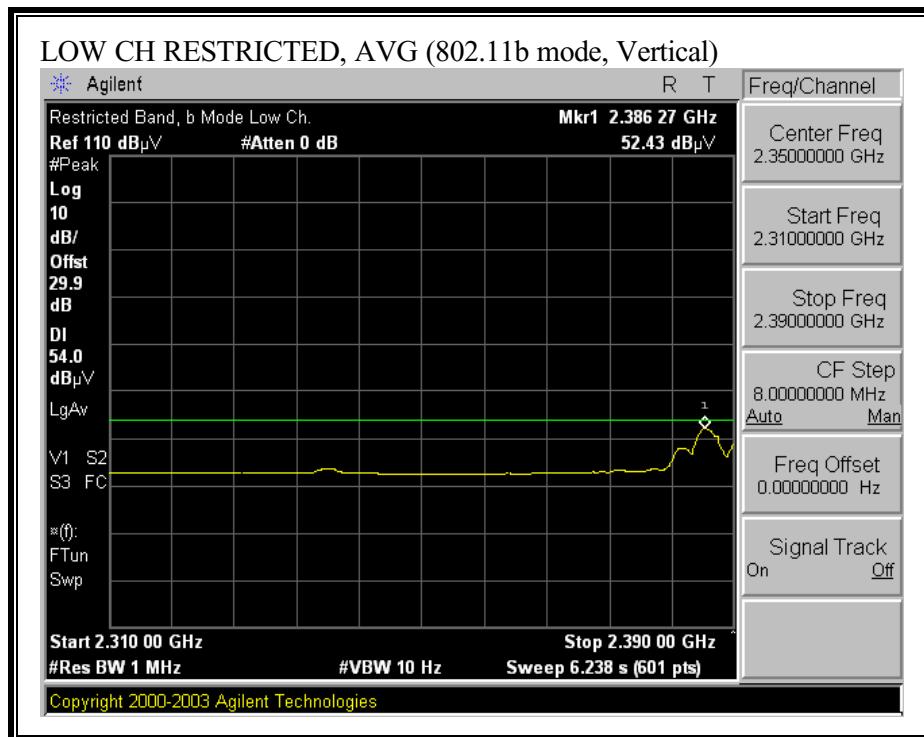
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



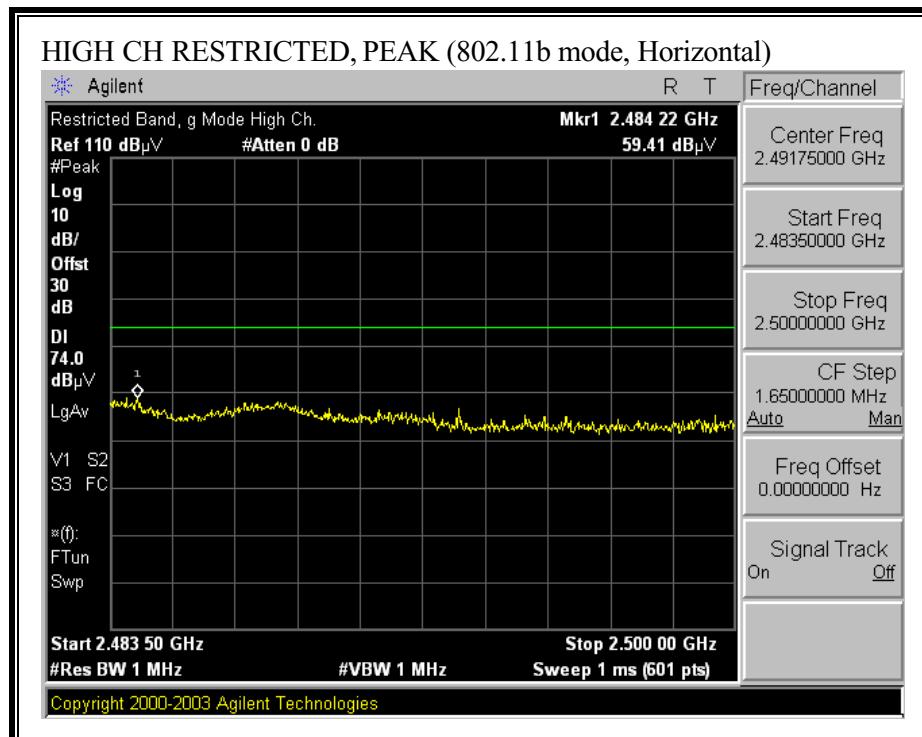


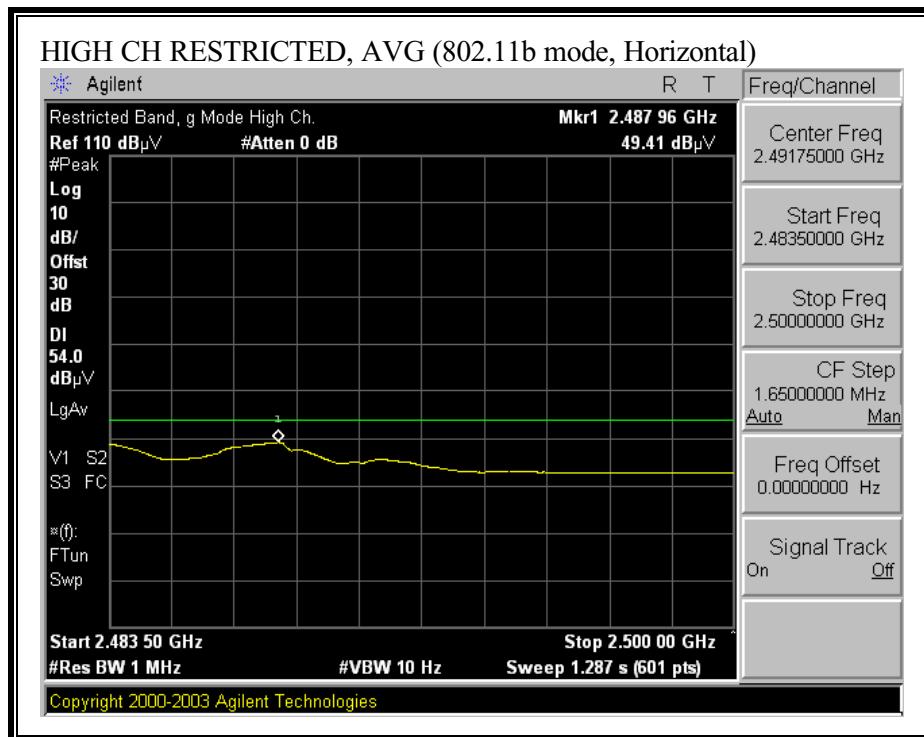
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



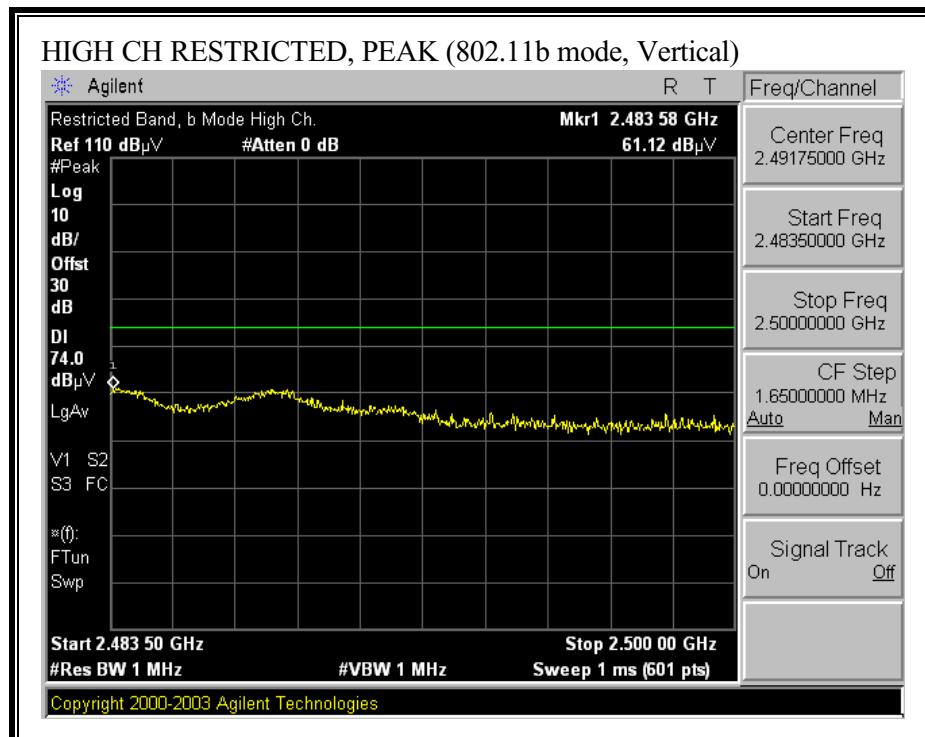


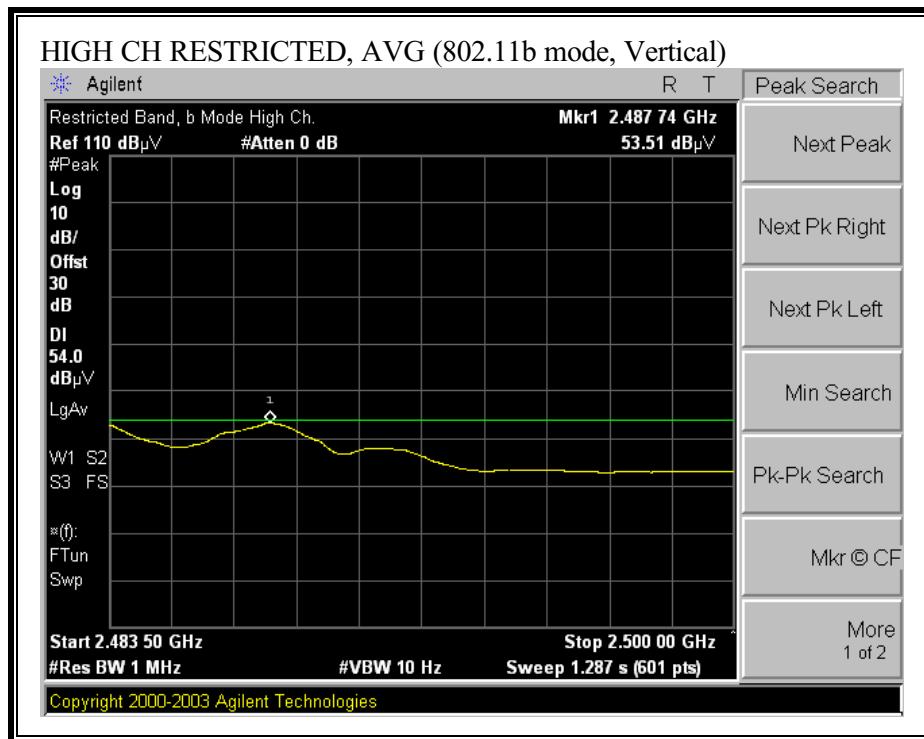
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

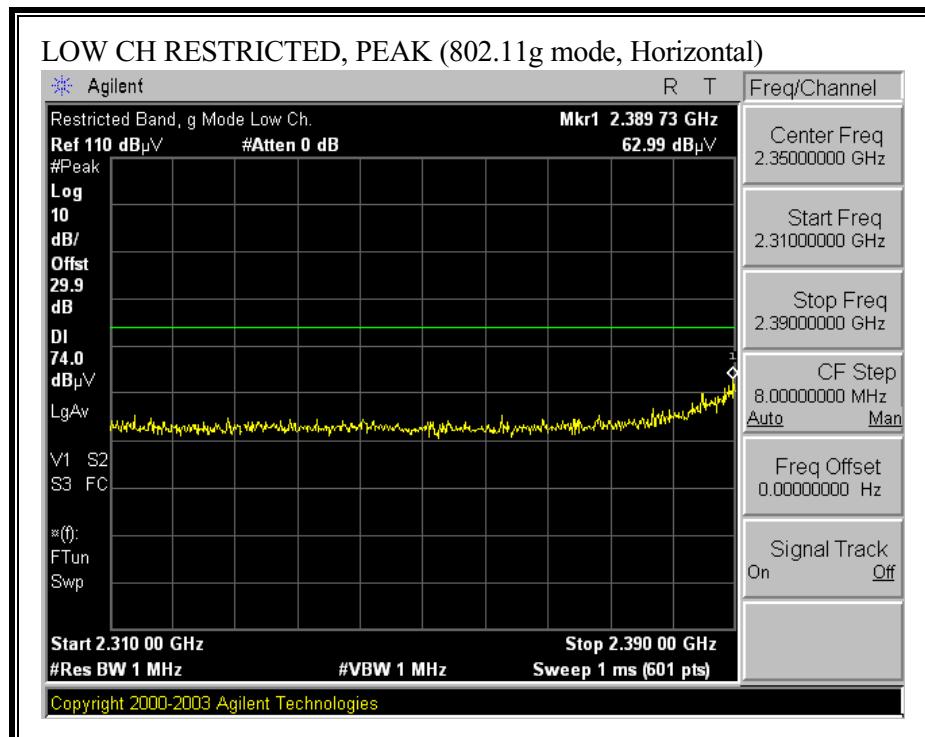


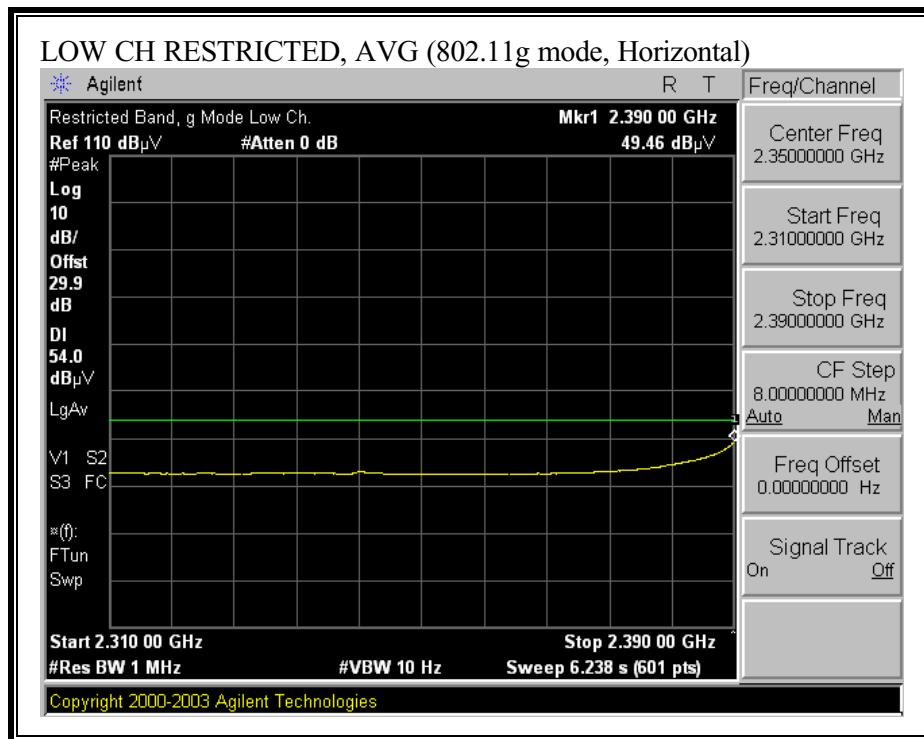


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

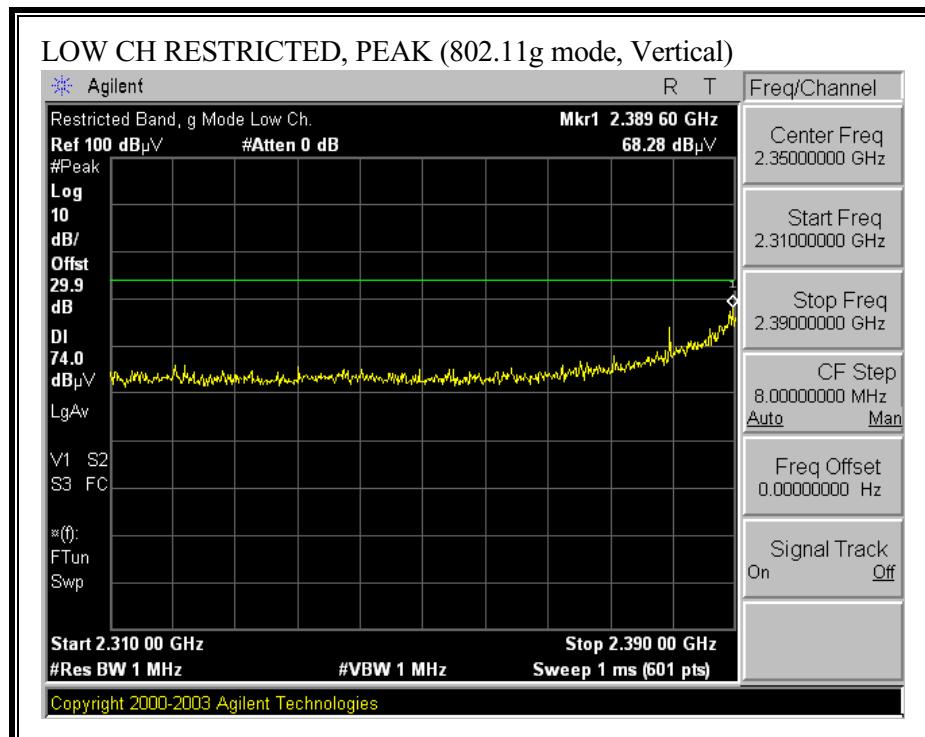
<p>04/06/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site</p> <p>Test Engineer: Thanh Nguyen Project #: 06U101762-1 Company: HONA R&D Co. LTD EUT Description: WIRELESS ACCESS POINT EUT M/N: 70410-QAB Test Target: FCC Part 15.247 Mode Of Operation: Transmit B mode with Internal Antenna</p> <p>Test Equipment:</p> <table border="1"> <tr> <th>Horn 1-18GHz</th> <th>Pre-amplifier 1-26GHz</th> <th>Pre-amplifier 26-40GHz</th> <th colspan="4">Horn > 18GHz</th> <th>Limit</th> </tr> <tr> <td>T73; S/N: 6717 @3m</td> <td>T145 Agilent 3008A0056</td> <td></td> <td colspan="4"></td> <td>FCC 15.209</td> </tr> <tr> <td colspan="15">Hi Frequency Cables</td> </tr> <tr> <td colspan="3">2 foot cable</td> <td colspan="3">3 foot cable</td> <td colspan="3">12 foot cable</td> <td colspan="2">HPF</td> <td colspan="2">Reject Filter</td> <td colspan="2">Peak Measurements RBW=VBW=1MHz</td> </tr> <tr> <td colspan="3">Thanh 177079008</td> <td colspan="3"></td> <td colspan="3">Thanh 208946003</td> <td colspan="2">HPF_4.0GHz</td> <td colspan="2"></td> <td colspan="2">Average Measurements RBW=1MHz; VBW=10Hz</td> </tr> </table> <p>Measurement Data:</p> <table border="1"> <thead> <tr> <th>f GHz</th> <th>Dist (m)</th> <th>Read Pk dBuV</th> <th>Read Avg dBuV</th> <th>AF dB/m</th> <th>CL dB</th> <th>Amp dB</th> <th>D Corr dB</th> <th>Fltr dB</th> <th>Peak dBuV/m</th> <th>Avg dBuV/m</th> <th>Pk Lim dBuV/m</th> <th>Avg Lim dBuV/m</th> <th>Pk Mar dB</th> <th>Avg Mar dB</th> <th>Notes (V/H)</th> </tr> </thead> <tbody> <tr> <td colspan="15">Low Ch 2412 MHz</td> <td>V</td> </tr> <tr> <td>4.824</td> <td>3.0</td> <td>53.2</td> <td>50.5</td> <td>33.7</td> <td>2.8</td> <td>-34.8</td> <td>0.0</td> <td>0.6</td> <td>55.4</td> <td>52.7</td> <td>74</td> <td>54</td> <td>-18.6</td> <td>-1.3</td> <td>V</td> </tr> <tr> <td>7.236</td> <td>3.0</td> <td>47.8</td> <td>40.4</td> <td>35.4</td> <td>3.3</td> <td>-34.7</td> <td>0.0</td> <td>0.6</td> <td>52.5</td> <td>45.1</td> <td>74</td> <td>54</td> <td>-21.5</td> <td>-8.9</td> <td>V</td> </tr> <tr> <td>9.648</td> <td>3.0</td> <td>44.5</td> <td>35.2</td> <td>37.5</td> <td>3.7</td> <td>-35.0</td> <td>0.0</td> <td>0.8</td> <td>51.4</td> <td>42.2</td> <td>74</td> <td>54</td> <td>-22.6</td> <td>-11.8</td> <td>V</td> </tr> <tr> <td>12.060</td> <td>3.0</td> <td>42.1</td> <td>30.2</td> <td>38.5</td> <td>4.3</td> <td>-32.4</td> <td>0.0</td> <td>0.9</td> <td>53.4</td> <td>41.6</td> <td>74</td> <td>54</td> <td>-20.6</td> <td>-12.4</td> <td>Noise floor</td> </tr> <tr> <td>4.824</td> <td>3.0</td> <td>47.3</td> <td>41.8</td> <td>33.7</td> <td>2.8</td> <td>-34.8</td> <td>0.0</td> <td>0.6</td> <td>49.6</td> <td>44.1</td> <td>74</td> <td>54</td> <td>-24.4</td> <td>-9.9</td> <td>H</td> </tr> <tr> <td>7.236</td> <td>3.0</td> <td>43.7</td> <td>33.3</td> <td>35.4</td> <td>3.3</td> <td>-34.7</td> <td>0.0</td> <td>0.6</td> <td>48.4</td> <td>38.0</td> <td>74</td> <td>54</td> <td>-25.6</td> <td>-16.0</td> <td>H</td> </tr> <tr> <td>9.648</td> <td>3.0</td> <td>44.4</td> <td>32.6</td> <td>37.5</td> <td>3.7</td> <td>-35.0</td> <td>0.0</td> <td>0.8</td> <td>51.3</td> <td>39.6</td> <td>74</td> <td>54</td> <td>-22.7</td> <td>-14.4</td> <td>Noise floor</td> </tr> <tr> <td colspan="15">Mid Ch 2437MHz</td> <td>V</td> </tr> <tr> <td>4.874</td> <td>3.0</td> <td>57.8</td> <td>49.1</td> <td>33.8</td> <td>2.8</td> <td>-34.9</td> <td>0.0</td> <td>0.6</td> <td>60.1</td> <td>51.4</td> <td>74</td> <td>54</td> <td>-13.9</td> <td>-2.6</td> <td>V</td> </tr> <tr> <td>7.311</td> <td>3.0</td> <td>55.4</td> <td>48.3</td> <td>35.5</td> <td>3.3</td> <td>-34.7</td> <td>0.0</td> <td>0.6</td> <td>60.2</td> <td>53.1</td> <td>74</td> <td>54</td> <td>-13.8</td> <td>-0.9</td> <td>V</td> </tr> <tr> <td>9.748</td> <td>3.0</td> <td>47.3</td> <td>42.3</td> <td>37.5</td> <td>3.7</td> <td>-35.0</td> <td>0.0</td> <td>0.8</td> <td>54.3</td> <td>49.3</td> <td>74</td> <td>54</td> <td>-19.7</td> <td>-4.7</td> <td>V</td> </tr> <tr> <td>12.185</td> <td>3.0</td> <td>42.7</td> <td>30.6</td> <td>38.5</td> <td>4.3</td> <td>-32.4</td> <td>0.0</td> <td>0.9</td> <td>54.0</td> <td>41.9</td> <td>74</td> <td>54</td> <td>-20.0</td> <td>-12.1</td> <td>Noise floor</td> </tr> <tr> <td>4.874</td> <td>3.0</td> <td>50.0</td> <td>48.0</td> <td>33.8</td> <td>2.8</td> <td>-34.9</td> <td>0.0</td> <td>0.6</td> <td>52.3</td> <td>50.4</td> <td>74</td> <td>54</td> <td>-21.7</td> <td>-3.6</td> <td>H</td> </tr> <tr> <td>7.311</td> <td>3.0</td> <td>48.3</td> <td>42.6</td> <td>35.5</td> <td>3.3</td> <td>-34.7</td> <td>0.0</td> <td>0.6</td> <td>53.1</td> <td>47.4</td> <td>74</td> <td>54</td> <td>-20.9</td> <td>-6.6</td> <td>H</td> </tr> <tr> <td>9.748</td> <td>3.0</td> <td>43.4</td> <td>5.9</td> <td>37.5</td> <td>3.7</td> <td>-35.0</td> <td>0.0</td> <td>0.8</td> <td>50.5</td> <td>12.9</td> <td>74</td> <td>54</td> <td>-23.5</td> <td>-41.1</td> <td>H</td> </tr> <tr> <td>12.185</td> <td>3.0</td> <td>42.3</td> <td>30.2</td> <td>38.5</td> <td>4.3</td> <td>-32.4</td> <td>0.0</td> <td>0.9</td> <td>53.6</td> <td>41.6</td> <td>74</td> <td>54</td> <td>-20.4</td> <td>-12.4</td> <td>Noise floor</td> </tr> <tr> <td colspan="15">High Ch 2462MHz</td> <td>V</td> </tr> <tr> <td>4.924</td> <td>3.0</td> <td>51.5</td> <td>48.6</td> <td>33.8</td> <td>2.8</td> <td>-34.9</td> <td>0.0</td> <td>0.6</td> <td>53.9</td> <td>51.0</td> <td>74</td> <td>54</td> <td>-20.1</td> <td>-3.0</td> <td>V</td> </tr> <tr> <td>7.386</td> <td>3.0</td> <td>45.1</td> <td>35.0</td> <td>35.6</td> <td>3.3</td> <td>-34.6</td> <td>0.0</td> <td>0.6</td> <td>50.0</td> <td>39.9</td> <td>74</td> <td>54</td> <td>-24.0</td> <td>-14.1</td> <td>V</td> </tr> <tr> <td>9.848</td> <td>3.0</td> <td>44.2</td> <td>35.5</td> <td>37.6</td> <td>3.7</td> <td>-35.1</td> <td>0.0</td> <td>0.8</td> <td>51.3</td> <td>42.6</td> <td>74</td> <td>54</td> <td>-22.7</td> <td>-11.4</td> <td>V</td> </tr> <tr> <td>12.310</td> <td>3.0</td> <td>43.5</td> <td>30.0</td> <td>38.5</td> <td>4.4</td> <td>-32.4</td> <td>0.0</td> <td>0.9</td> <td>54.9</td> <td>41.4</td> <td>74</td> <td>54</td> <td>-19.1</td> <td>-12.6</td> <td>Noise floor</td> </tr> <tr> <td>4.924</td> <td>3.0</td> <td>47.0</td> 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<p>Definitions:</p> <table border="1"> <tr> <td>f</td> <td>Measurement Frequency</td> <td>Amp</td> <td>Preamp Gain</td> <td>Avg Lim</td> <td>Average Field Strength Limit</td> </tr> <tr> <td>Dist</td> <td>Distance to Antenna</td> <td>D Corr</td> <td>Distance Correct to 3 meters</td> <td>Pk Lim</td> <td>Peak Field Strength Limit</td> </tr> <tr> <td>Read</td> <td>Analyzer Reading</td> <td>Avg</td> <td>Average Field Strength @ 3 m</td> <td>Avg Mar</td> <td>Margin vs. Average Limit</td> </tr> <tr> <td>AF</td> <td>Antenna Factor</td> <td>Peak</td> <td>Calculated Peak Field Strength</td> <td>Pk Mar</td> <td>Margin vs. Peak Limit</td> </tr> <tr> <td>CL</td> <td>Cable Loss</td> <td>HPF</td> <td>High Pass Filter</td> <td></td> <td></td> </tr> </table>															Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz				Limit	T73; S/N: 6717 @3m	T145 Agilent 3008A0056						FCC 15.209	Hi Frequency Cables															2 foot cable			3 foot cable			12 foot cable			HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz		Thanh 177079008						Thanh 208946003			HPF_4.0GHz				Average Measurements RBW=1MHz; VBW=10Hz		f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	Low Ch 2412 MHz															V	4.824	3.0	53.2	50.5	33.7	2.8	-34.8	0.0	0.6	55.4	52.7	74	54	-18.6	-1.3	V	7.236	3.0	47.8	40.4	35.4	3.3	-34.7	0.0	0.6	52.5	45.1	74	54	-21.5	-8.9	V	9.648	3.0	44.5	35.2	37.5	3.7	-35.0	0.0	0.8	51.4	42.2	74	54	-22.6	-11.8	V	12.060	3.0	42.1	30.2	38.5	4.3	-32.4	0.0	0.9	53.4	41.6	74	54	-20.6	-12.4	Noise floor	4.824	3.0	47.3	41.8	33.7	2.8	-34.8	0.0	0.6	49.6	44.1	74	54	-24.4	-9.9	H	7.236	3.0	43.7	33.3	35.4	3.3	-34.7	0.0	0.6	48.4	38.0	74	54	-25.6	-16.0	H	9.648	3.0	44.4	32.6	37.5	3.7	-35.0	0.0	0.8	51.3	39.6	74	54	-22.7	-14.4	Noise floor	Mid Ch 2437MHz															V	4.874	3.0	57.8	49.1	33.8	2.8	-34.9	0.0	0.6	60.1	51.4	74	54	-13.9	-2.6	V	7.311	3.0	55.4	48.3	35.5	3.3	-34.7	0.0	0.6	60.2	53.1	74	54	-13.8	-0.9	V	9.748	3.0	47.3	42.3	37.5	3.7	-35.0	0.0	0.8	54.3	49.3	74	54	-19.7	-4.7	V	12.185	3.0	42.7	30.6	38.5	4.3	-32.4	0.0	0.9	54.0	41.9	74	54	-20.0	-12.1	Noise floor	4.874	3.0	50.0	48.0	33.8	2.8	-34.9	0.0	0.6	52.3	50.4	74	54	-21.7	-3.6	H	7.311	3.0	48.3	42.6	35.5	3.3	-34.7	0.0	0.6	53.1	47.4	74	54	-20.9	-6.6	H	9.748	3.0	43.4	5.9	37.5	3.7	-35.0	0.0	0.8	50.5	12.9	74	54	-23.5	-41.1	H	12.185	3.0	42.3	30.2	38.5	4.3	-32.4	0.0	0.9	53.6	41.6	74	54	-20.4	-12.4	Noise floor	High Ch 2462MHz															V	4.924	3.0	51.5	48.6	33.8	2.8	-34.9	0.0	0.6	53.9	51.0	74	54	-20.1	-3.0	V	7.386	3.0	45.1	35.0	35.6	3.3	-34.6	0.0	0.6	50.0	39.9	74	54	-24.0	-14.1	V	9.848	3.0	44.2	35.5	37.6	3.7	-35.1	0.0	0.8	51.3	42.6	74	54	-22.7	-11.4	V	12.310	3.0	43.5	30.0	38.5	4.4	-32.4	0.0	0.9	54.9	41.4	74	54	-19.1	-12.6	Noise floor	4.924	3.0	47.0	42.0	33.8	2.8	-34.9	0.0	0.6	49.4	44.4	74	54	-24.6	-9.6	H	7.386	3.0	43.4	32.3	35.6	3.3	-34.6	0.0	0.6	48.4	37.3	74	54	-25.6	-16.7	H	9.848	3.0	44.1	30.8	37.6	3.7	-35.1	0.0	0.8	51.2	37.9	74	54	-22.8	-16.1	H	12.310	3.0	41.6	30.1	38.5	4.4	-32.4	0.0	0.9	53.0	41.5	74	54	-21.0	-12.5	Noise floor	No other spurious emissions were detected above 5th harmonics.															V	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		
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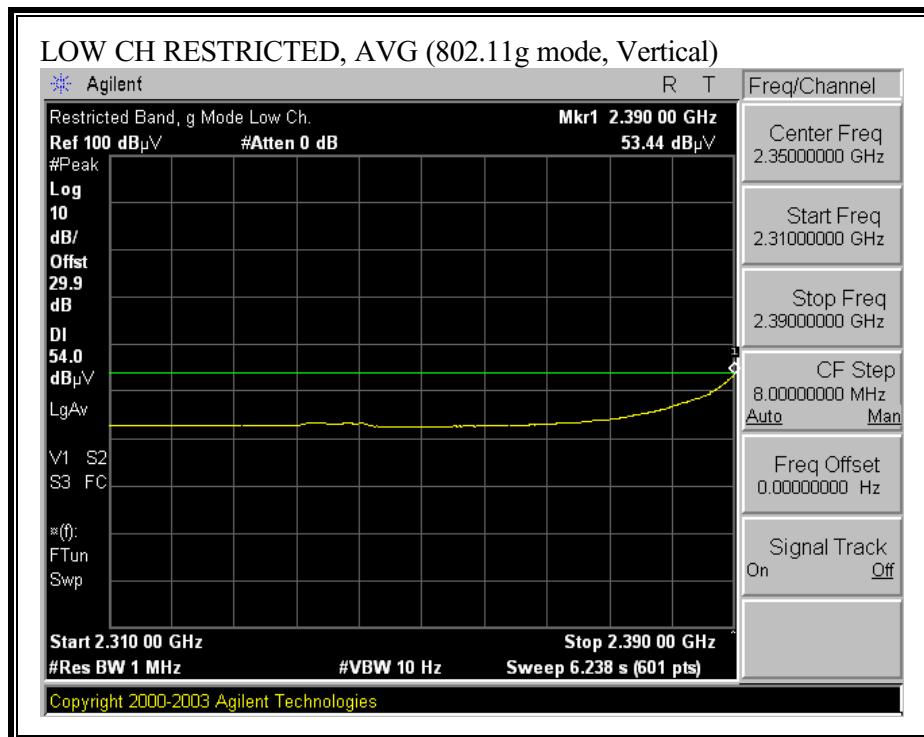
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



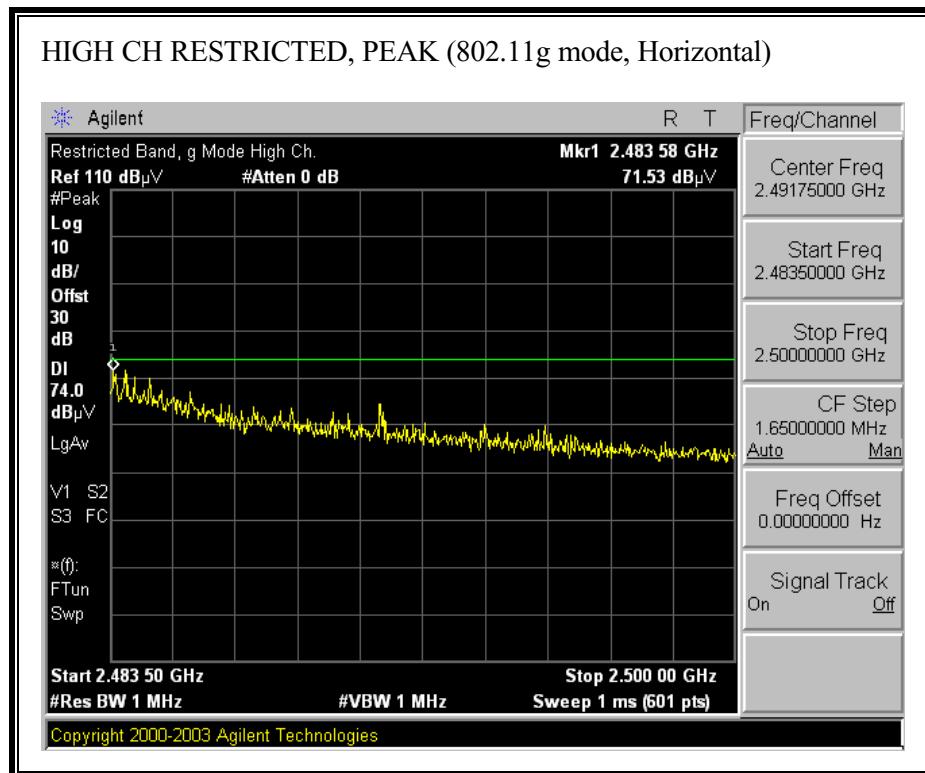


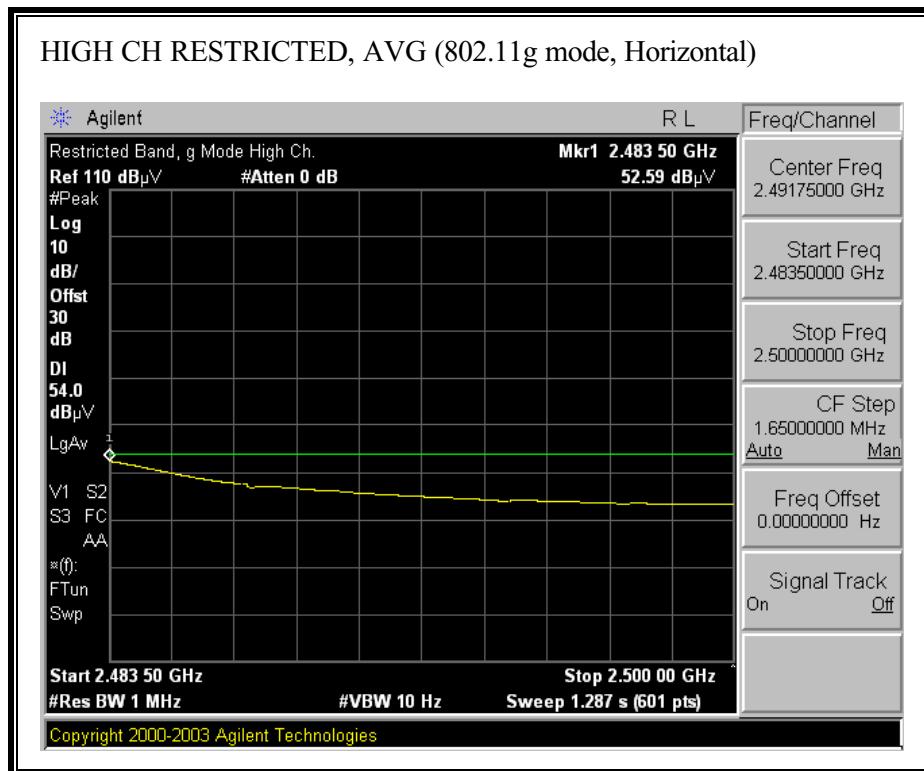
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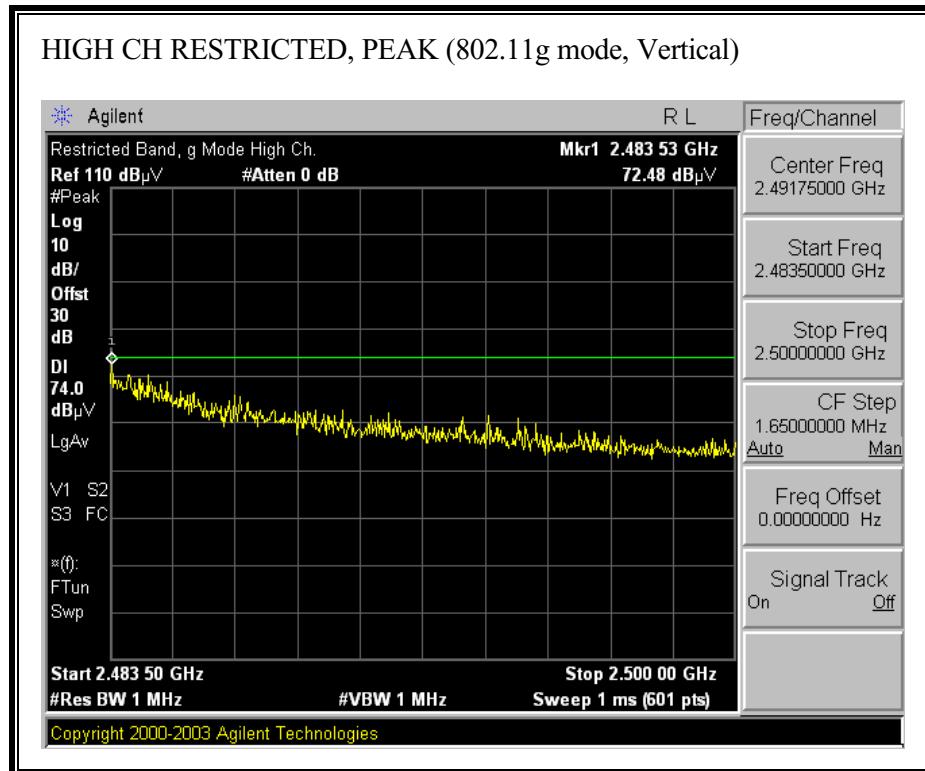


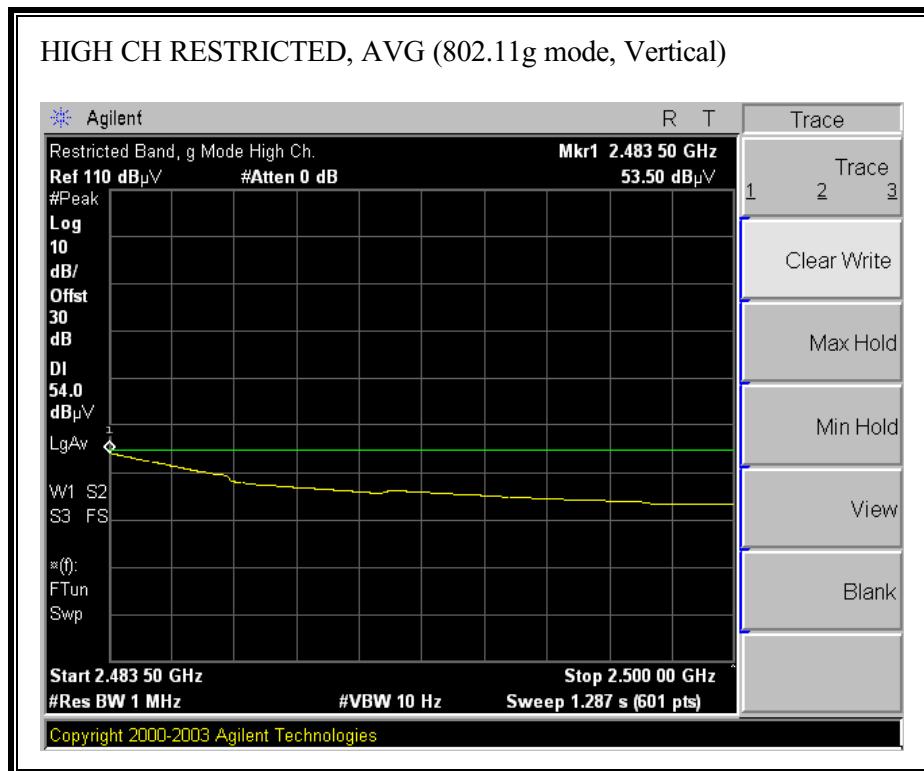
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)



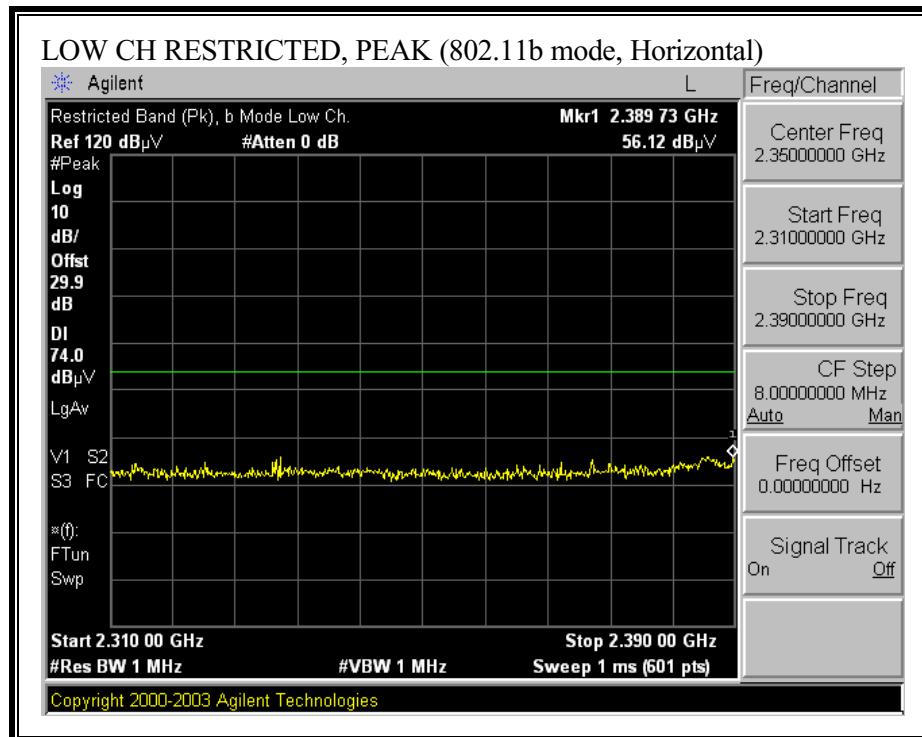


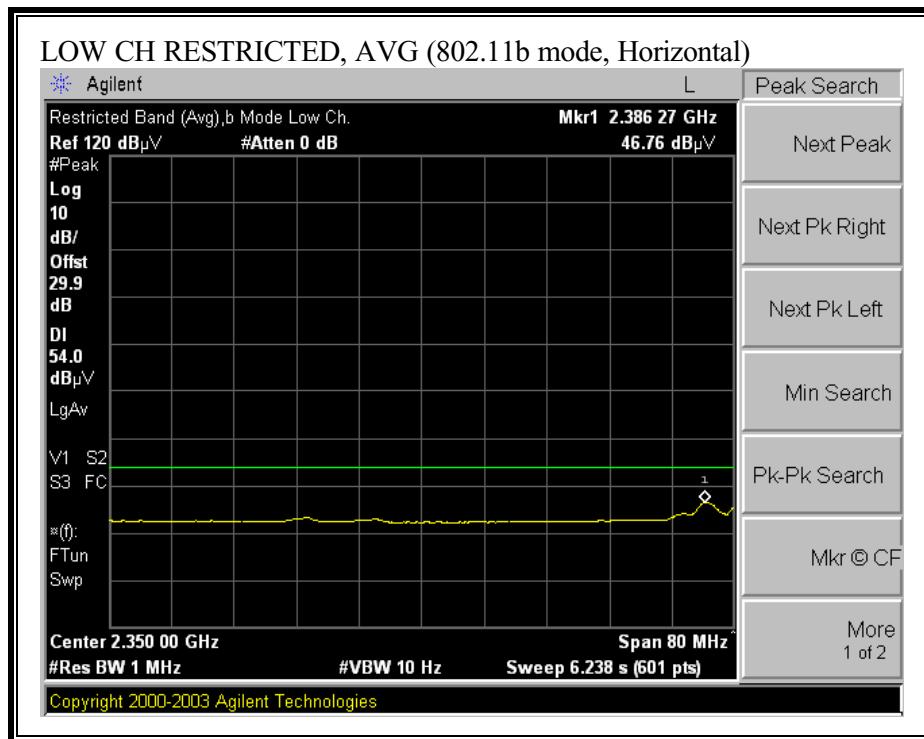
HARMONICS AND SPURIOUS EMISSIONS (g MODE)

04/06/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site																																																																																				
Test Engineer: Thanh Nguyen Project #: 06U10176-2 Company: HONA R&D Co. LTD EUT Description: WIRELESS ACCESS POINT EUT M/N: 70410-QAB Test Target: FCC Part 15.247 Mode Of Operation: Transmit g mode with Internal Antenna.																																																																																				
Test Equipment:																																																																																				
<table border="1"> <tr> <td>Horn 1-18GHz</td> <td>Pre-amplifier 1-26GHz</td> <td>Pre-amplifier 26-40GHz</td> <td colspan="4">Horn > 18GHz</td> <td>Limit</td> </tr> <tr> <td>T73; S/N: 6717 @3m</td> <td>T145 Agilent 3008A0056</td> <td></td> <td colspan="4"></td> <td>FCC 15.209</td> </tr> <tr> <td colspan="18">Hi Frequency Cables</td></tr> <tr> <td colspan="2">2 foot cable</td> <td colspan="2">3 foot cable</td> <td colspan="2">12 foot cable</td> <td>HPF</td> <td>Reject Filter</td> <td colspan="9">Peak Measurements RBW=VBW=1MHz</td></tr> <tr> <td colspan="2">Thanh 177079008</td> <td colspan="2"></td> <td colspan="2">Thanh 208946003</td> <td>HPF_4.0GHz</td> <td></td> <td colspan="9">Average Measurements RBW=1MHz; VBW=10Hz</td></tr> </table>																	Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz				Limit	T73; S/N: 6717 @3m	T145 Agilent 3008A0056						FCC 15.209	Hi Frequency Cables																		2 foot cable		3 foot cable		12 foot cable		HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz									Thanh 177079008				Thanh 208946003		HPF_4.0GHz		Average Measurements RBW=1MHz; VBW=10Hz								
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2 foot cable		3 foot cable		12 foot cable		HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz																																																																												
Thanh 177079008				Thanh 208946003		HPF_4.0GHz		Average Measurements RBW=1MHz; VBW=10Hz																																																																												
f	Dist	Read Pk	Read Avg	AF	CL	Amp	D Corr	Fltr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes																																																																					
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)																																																																					
Harmonics Spurious																																																																																				
Low Ch 2412 MHz																																																																																				
4.824	3.0	50.9	37.5	33.7	2.8	-34.8	0.0	0.6	53.1	39.7	74	54	-20.9	-14.3		V																																																																				
7.236	3.0	52.0	39.2	35.4	3.3	-34.7	0.0	0.6	56.7	43.9	74	54	-17.3	-10.1		V																																																																				
9.648	3.0	44.0	31.8	37.5	3.7	-35.0	0.0	0.8	50.9	38.8	74	54	-23.1	-15.2		Noise floor																																																																				
4.824	3.0	45.2	32.9	33.7	2.8	-34.8	0.0	0.6	47.4	35.2	74	54	-26.6	-18.8		H																																																																				
7.236	3.0	50.0	37.3	35.4	3.3	-34.7	0.0	0.6	54.7	42.0	74	54	-19.3	-12.0		H																																																																				
9.648	3.0	43.8	31.9	37.5	3.7	-35.0	0.0	0.8	50.8	38.8	74	54	-23.2	-15.2		Noise floor																																																																				
Mid Ch 2437MHz																																																																																				
4.874	3.0	50.0	37.9	33.8	2.8	-34.9	0.0	0.6	52.3	40.2	74	54	-21.7	-13.8		V																																																																				
7.311	3.0	48.6	36.0	35.5	3.3	-34.7	0.0	0.6	53.4	40.8	74	54	-20.6	-13.2		V																																																																				
9.748	3.0	43.0	31.2	37.5	3.7	-35.0	0.0	0.8	50.1	38.2	74	54	-23.9	-15.8		Noise floor																																																																				
4.874	3.0	43.0	30.2	33.8	2.8	-34.9	0.0	0.6	45.3	32.5	74	54	-28.7	-21.5		H																																																																				
7.311	3.0	45.5	32.1	35.5	3.3	-34.7	0.0	0.6	50.3	36.9	74	54	-23.7	-17.1		H																																																																				
9.748	3.0	42.7	31.2	37.5	3.7	-35.0	0.0	0.8	49.7	38.3	74	54	-24.3	-15.7		Noise floor																																																																				
High Ch 2462MHz																																																																																				
4.924	3.0	50.4	38.4	33.8	2.8	-34.9	0.0	0.6	52.8	40.8	74	54	-21.2	-13.2		V																																																																				
7.386	3.0	46.6	33.6	35.6	3.3	-34.6	0.0	0.6	51.6	38.6	74	54	-22.4	-15.4		V																																																																				
9.848	3.0	42.9	31.5	37.6	3.7	-35.1	0.0	0.8	50.0	38.6	74	54	-24.0	-15.4		Noise floor																																																																				
4.924	3.0	45.3	31.3	33.8	2.8	-34.9	0.0	0.6	47.7	33.7	74	54	-26.3	-20.3		H																																																																				
7.386	3.0	44.4	32.7	35.6	3.3	-34.6	0.0	0.6	49.3	37.6	74	54	-24.7	-16.4		H																																																																				
9.848	3.0	42.3	30.7	37.6	3.7	-35.1	0.0	0.8	49.4	37.8	74	54	-24.6	-16.2		Noise floor																																																																				
Spurious Emissions																																																																																				
1.000	3.0	56.06	49.58	23.8	1.3	-36.2	0.0	0.0	45.0	38.5	74	54	-29.0	-15.5		V																																																																				
1.103	3.0	62.13	59.47	24.2	1.3	-36.1	0.0	0.0	51.6	48.9	74	54	-22.4	-5.1		V																																																																				
2.241	3.0	57.51	45.62	27.9	2.0	-35.2	0.0	0.0	52.1	40.2	74	54	-21.9	-13.8		V																																																																				
1.200	3.0	54.28	46.69	24.5	1.4	-36.0	0.0	0.0	44.2	36.6	74	54	-29.8	-17.4		V																																																																				
1.099	3.0	57.42	48.08	24.2	1.3	-36.1	0.0	0.0	46.8	37.5	74	54	-27.2	-16.5		H																																																																				
No other spurious emissions were detected above 3rd harmonics.																																																																																				
f	Measurement Frequency			Amp	Preamp Gain			D Corr	Distance Correct to 3 meters			Avg Lim	Average Field Strength Limit																																																																							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit			Avg Mar	Margin vs. Average Limit																																																																							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit																																																																							
AF	Antenna Factor			HPF	High Pass Filter																																																																															
CL	Cable Loss																																																																																			

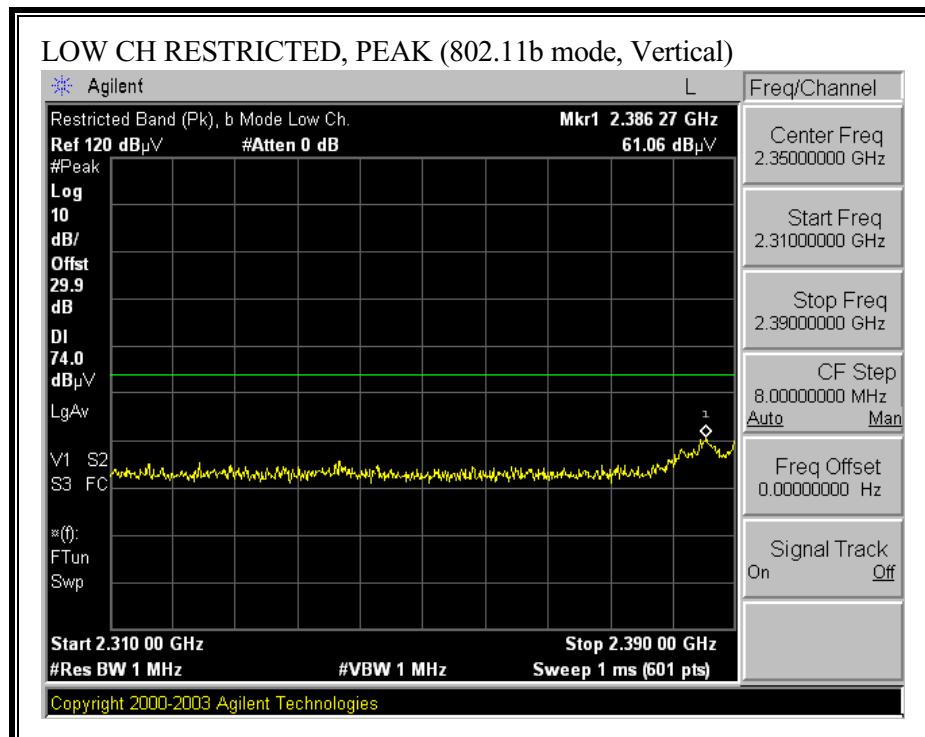
7.2.3. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND WITH EXTERNAL ANTENNA

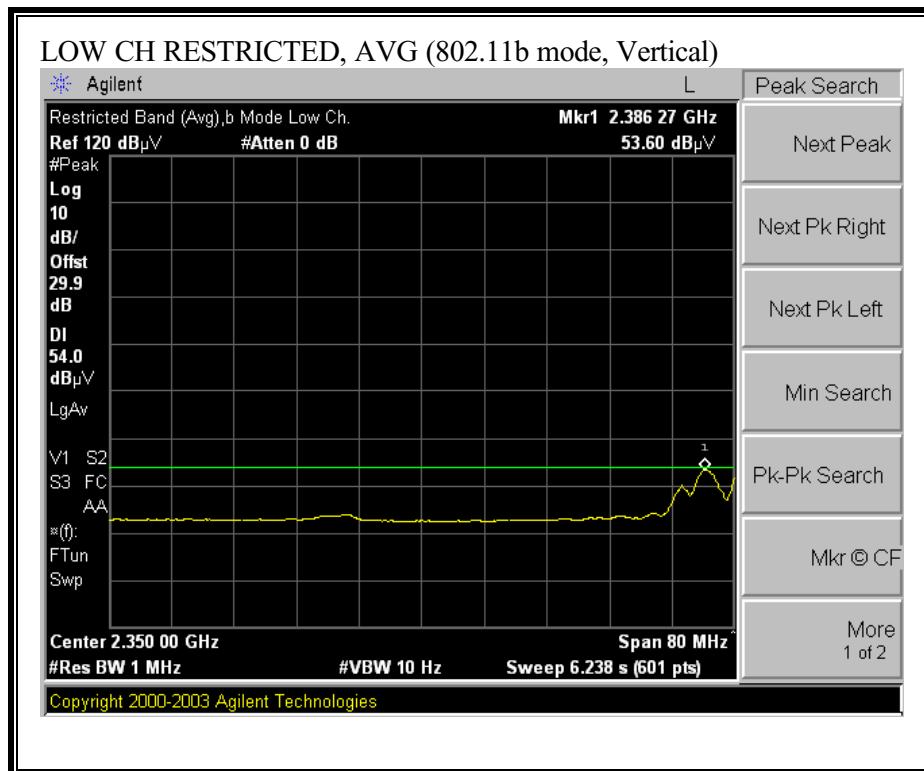
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



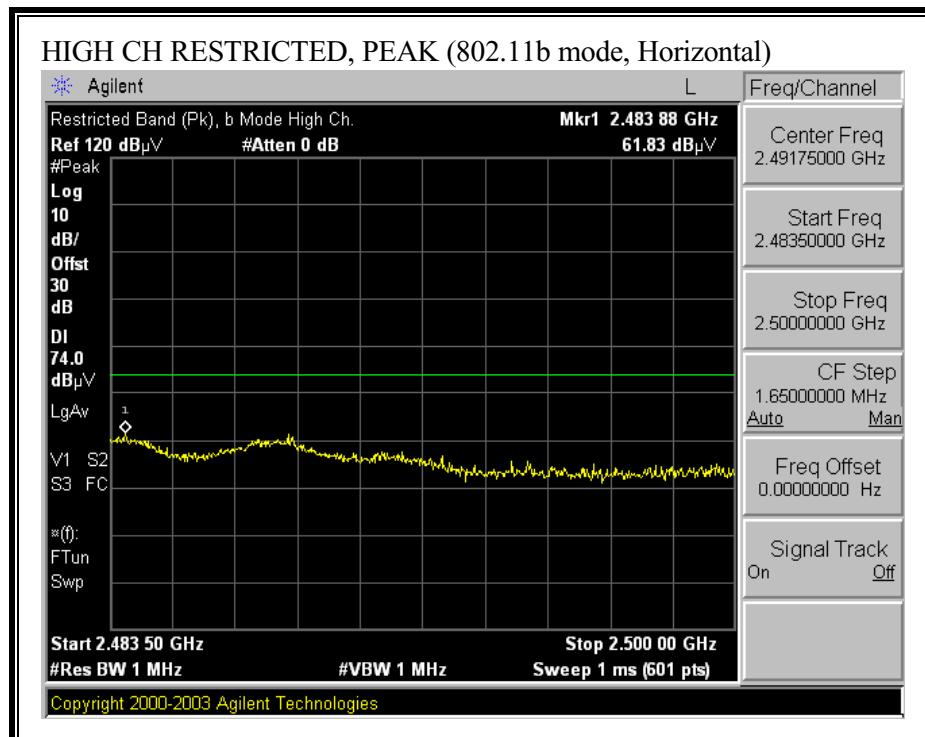


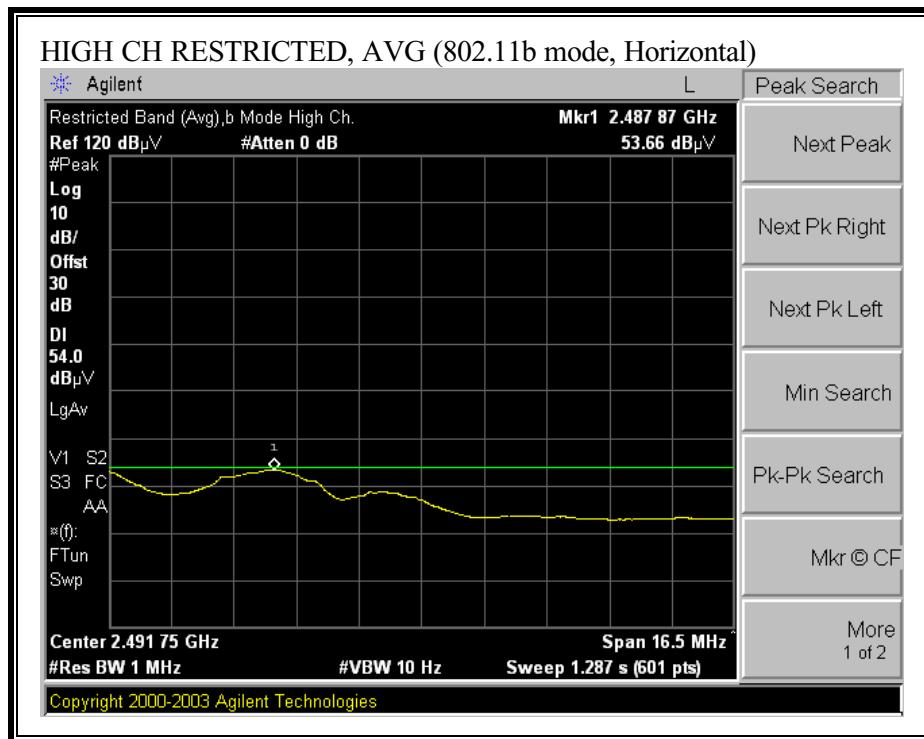
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



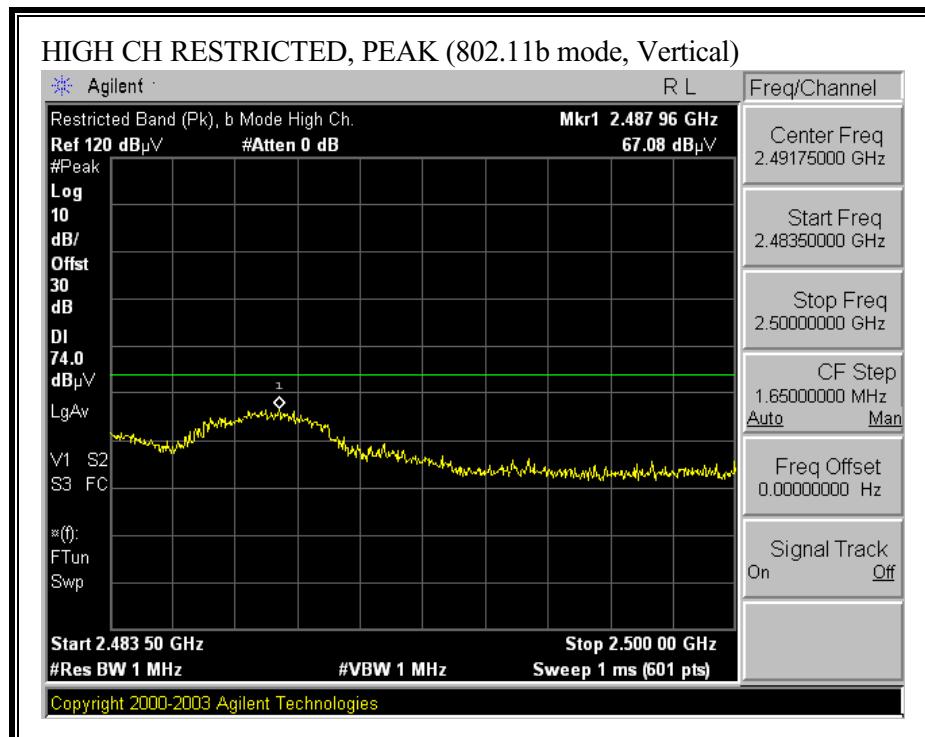


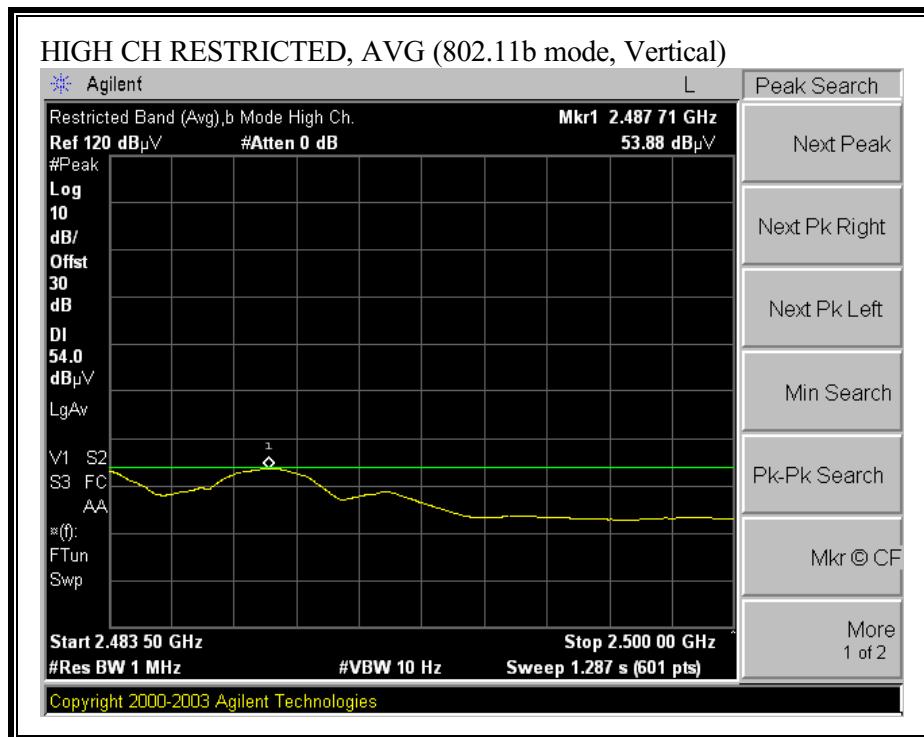
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

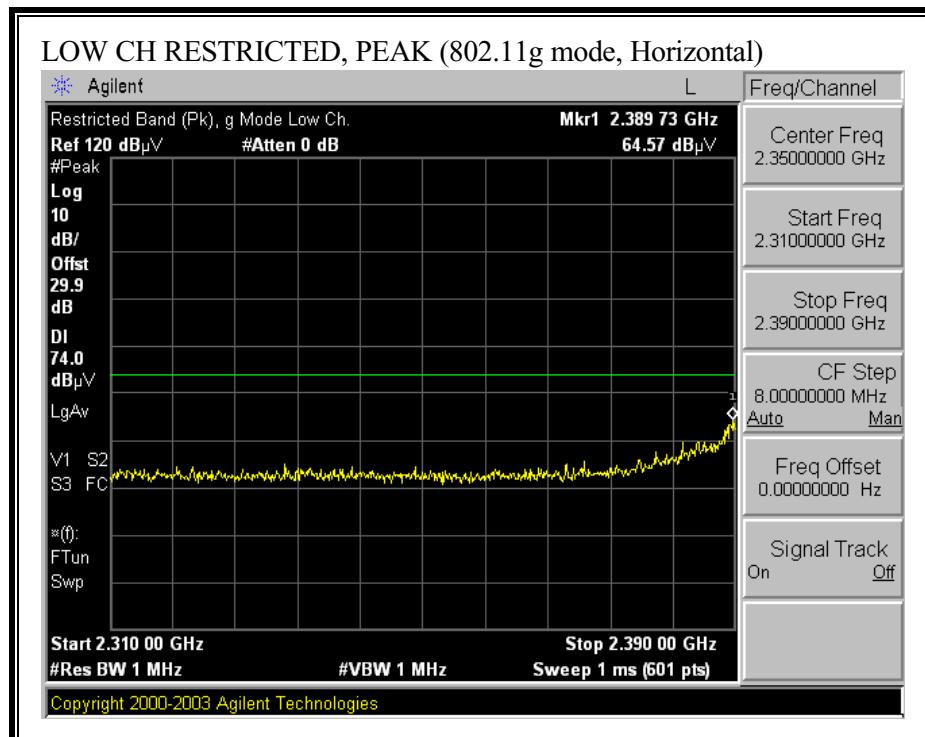


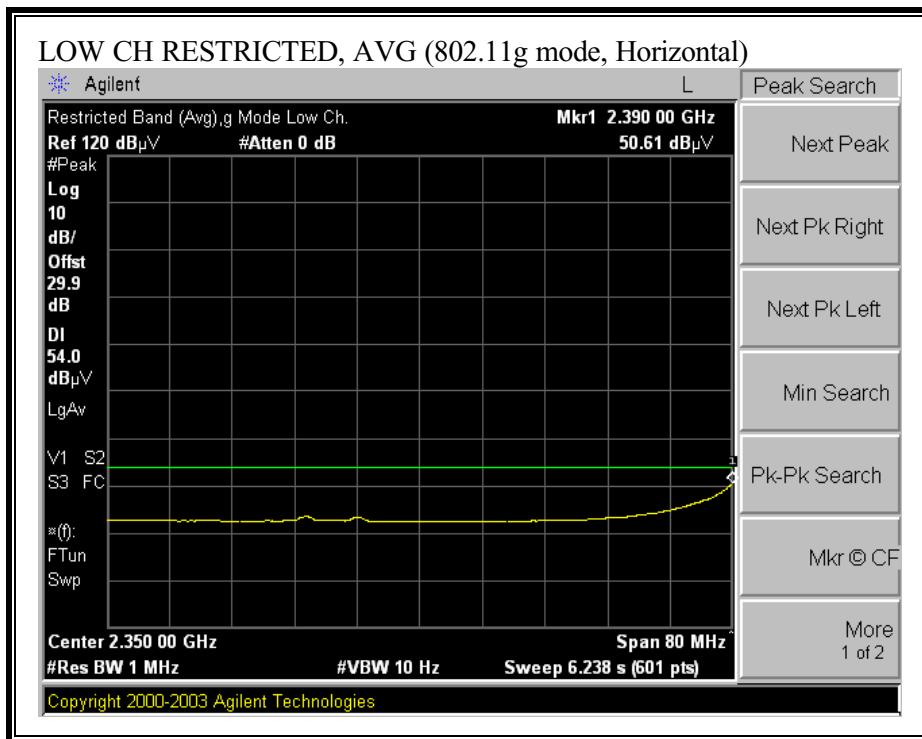


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

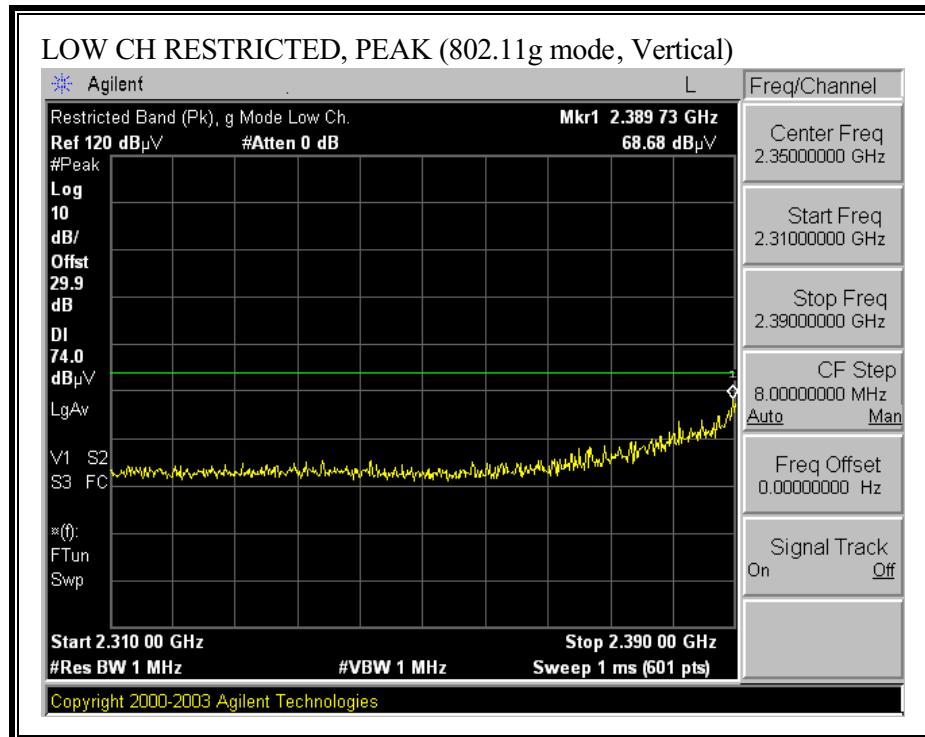
04/06/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site																													
Test Engineer: Thanh Nguyen Project #: 06U101762-2 Company: HONA R&D Co. LTD EUT Description: WIRELESS ACCESS POINT EUT M/N: 70410-QAB Test Target: FCC Part 15.247 Mode Of Operation: Transmit b mode with Ext.Antenna																													
Test Equipment:																													
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit																	
T73; S/N: 6717 @3m			T144 Miteq 3008A00931									FCC 15.209																	
<input type="checkbox"/> Hi Frequency Cables <table border="1"> <tr> <td>2 foot cable</td> <td>3 foot cable</td> <td>12 foot cable</td> <td>HPF</td> <td>Reject Filter</td> </tr> <tr> <td>Thanh 177079008</td> <td></td> <td>Thanh 208946003</td> <td>HPF_4.0GHz</td> <td></td> </tr> </table>															2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Thanh 177079008		Thanh 208946003	HPF_4.0GHz						
2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter																									
Thanh 177079008		Thanh 208946003	HPF_4.0GHz																										
<table border="1"> <tr> <td colspan="15"> Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz, VBW=10Hz </td> </tr> </table>															Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz, VBW=10Hz														
Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz, VBW=10Hz																													
f	Dist	Read Pk	Read Avg	AF	CL	Amp	D Corr	Fltr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes														
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)														
Low Ch 2412 MHz																													
4.824	3.0	53.9	52.2	33.7	2.8	-36.5	0.0	0.6	54.5	52.9	74	54	-19.5	-1.1	V														
7.236	3.0	46.7	36.7	35.4	3.3	-36.2	0.0	0.6	49.8	39.8	74	54	-24.2	-14.2	V														
9.648	3.0	45.8	37.3	37.5	3.7	-37.0	0.0	0.8	50.8	42.3	74	54	-23.2	-11.7	V														
12.060	3.0	44.2	31.8	38.5	4.3	-35.4	0.0	0.9	52.5	40.1	74	54	-21.5	-13.9	Noise floor														
4.824	3.0	54.9	52.5	33.7	2.8	-36.5	0.0	0.6	55.5	53.1	74	54	-18.5	-0.9	H														
7.236	3.0	46.6	37.1	35.4	3.3	-36.2	0.0	0.6	49.7	40.2	74	54	-24.3	-13.8	H														
9.648	3.0	44.2	32.5	37.5	3.7	-37.0	0.0	0.8	49.2	37.5	74	54	-24.8	-16.5	Noise floor														
12.060	3.0	44.8	32.9	38.5	4.3	-35.4	0.0	0.9	53.1	41.2	74	54	-20.9	-12.8	Noise floor														
Mid Cha 2437MHz																													
4.874	3.0	54.2	51.7	33.8	2.8	-36.5	0.0	0.6	55.0	52.5	74	54	-19.0	-1.5	H														
7.311	3.0	46.9	33.9	35.5	3.3	-36.2	0.0	0.6	50.1	37.1	74	54	-23.9	-16.9	H														
9.748	3.0	45.8	37.4	37.5	3.7	-37.0	0.0	0.8	50.8	42.5	74	54	-23.2	-11.5	H														
12.185	3.0	45.2	34.6	38.5	4.3	-35.4	0.0	0.9	53.5	43.0	74	54	-20.5	-11.0	Noise floor														
14.622	3.0	45.8	35.2	40.2	4.6	-35.3	0.0	0.9	56.1	45.6	74	54	-17.9	-8.4	Noise floor														
4.874	3.0	51.9	48.6	33.8	2.8	-36.5	0.0	0.6	52.6	49.3	74	54	-21.4	-4.7	V														
7.311	3.0	45.8	33.1	35.5	3.3	-36.2	0.0	0.6	49.1	36.3	74	54	-24.9	-17.7	V														
9.748	3.0	45.8	36.2	37.5	3.7	-37.0	0.0	0.8	50.9	41.3	74	54	-23.1	-12.7	V														
12.185	3.0	44.1	31.7	38.5	4.3	-35.4	0.0	0.9	52.5	40.0	74	54	-21.5	-14.0	Noise floor														
14.622	3.0	45.6	31.5	40.2	4.6	-35.3	0.0	0.9	56.0	41.9	74	54	-18.0	-12.1	Noise floor														
High Ch 2462MHz																													
4.924	3.0	53.6	51.3	33.8	2.8	-36.5	0.0	0.6	54.4	52.1	74	54	-19.6	-1.9	V														
7.386	3.0	51.3	41.6	35.6	3.3	-36.2	0.0	0.6	54.7	45.0	74	54	-19.3	9.0	V														
9.848	3.0	46.8	39.9	37.6	3.7	-37.0	0.0	0.8	52.0	45.0	74	54	-22.0	-9.0	V														
12.310	3.0	43.7	31.9	38.5	4.4	-35.4	0.0	0.9	52.0	40.2	74	54	-22.0	-13.8	Noise floor														
4.924	3.0	55.1	53.1	33.8	2.8	-36.5	0.0	0.6	55.9	53.9	74	54	-18.1	-0.1	H														
7.386	3.0	42.4	30.4	35.6	3.3	-36.2	0.0	0.6	45.7	33.8	74	54	-28.3	-20.2	Noise floor														
No other spurious emissions were detected above 5th harmonics.																													
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																								

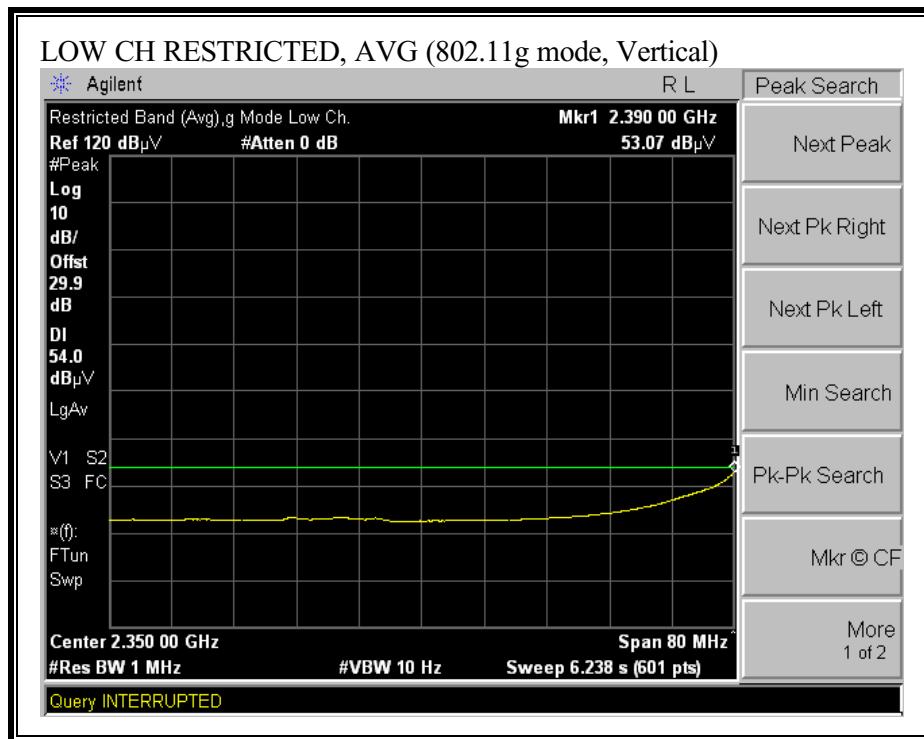
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



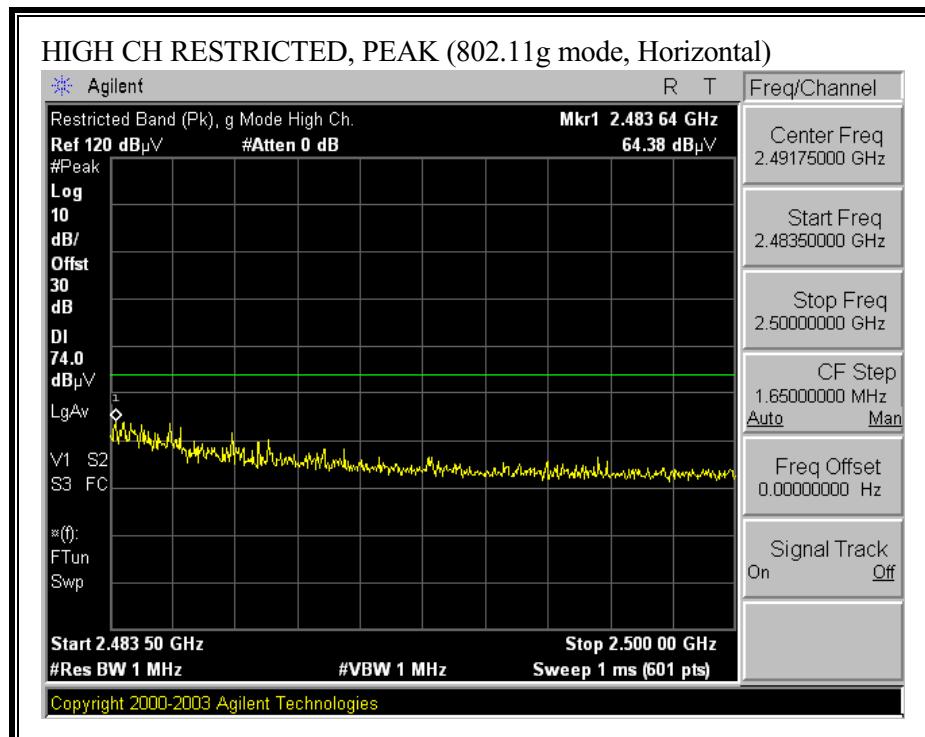


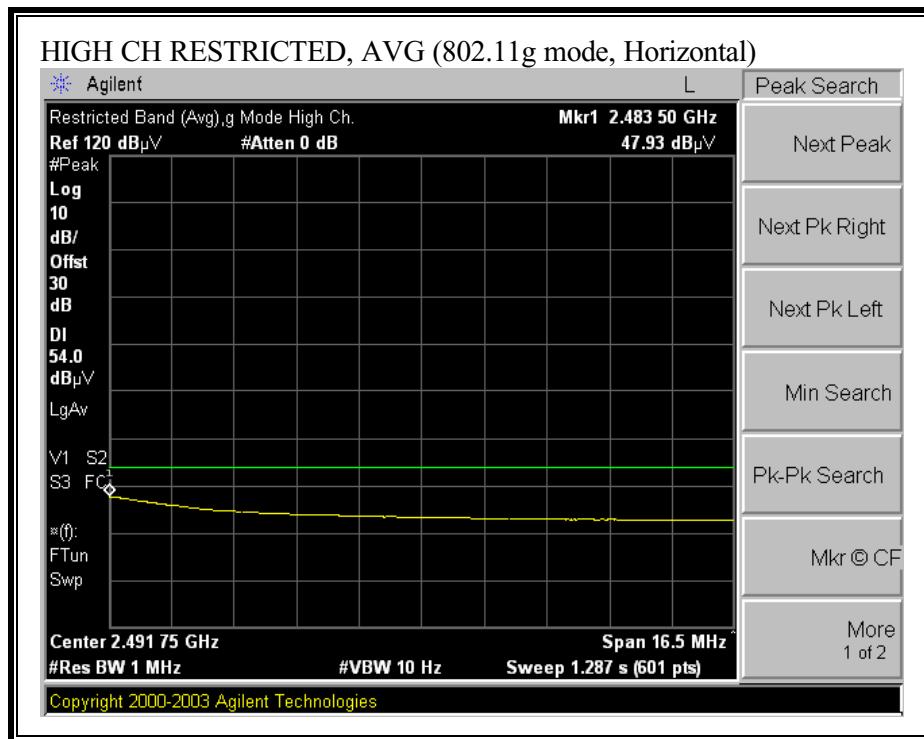
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



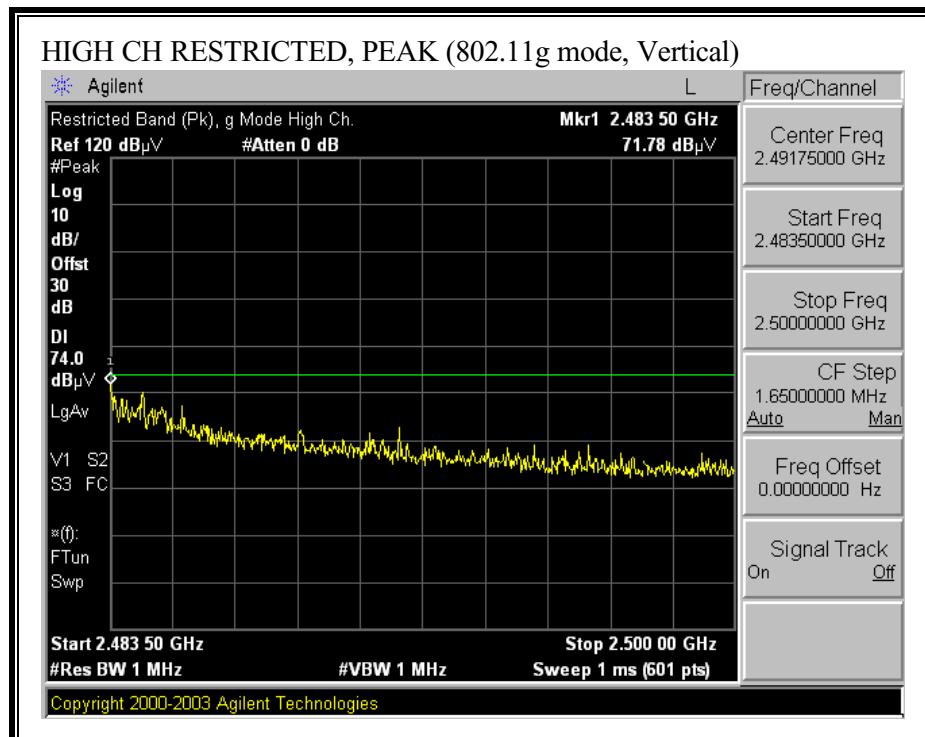


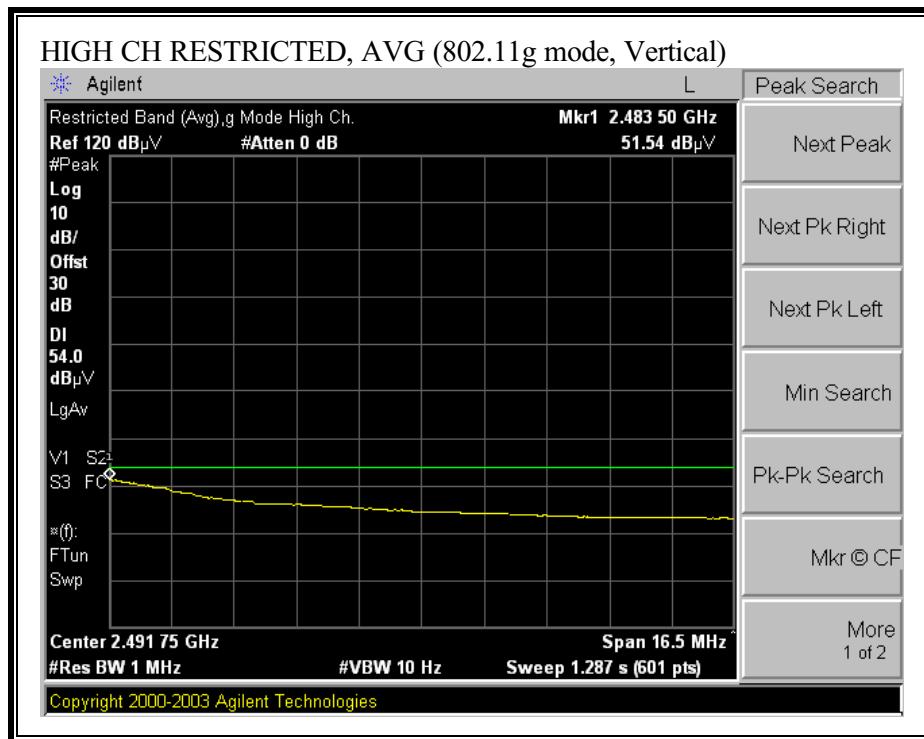
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS (g MODE)

04/06/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site																																																																									
Test Engineer: Thanh Nguyen Project #: 06U10176-2 Company: HONA R&D Co. LTD EUT Description: WIRELESS ACCESS POINT EUT M/N: 70410-QAB Test Target: FCC Part 15.247 Mode Of Operation: Transmit g mode with External Antenna																																																																									
Test Equipment: <table border="1"> <tr> <td>Horn 1-18GHz</td> <td>Pre-amplifier 1-26GHz</td> <td>Pre-amplifier 26-40GHz</td> <td colspan="3">Horn > 18GHz</td> <td>Limit</td> </tr> <tr> <td>T73; S/N: 6717 @3m</td> <td>T144 Miteq 3008A00931</td> <td></td> <td colspan="3"></td> <td>FCC 15.209</td> </tr> <tr> <td colspan="15">Hi Frequency Cables</td> </tr> <tr> <td>2 foot cable</td> <td>3 foot cable</td> <td>12 foot cable</td> <td colspan="3">HPF</td> <td>Reject Filter</td> <td colspan="8">Peak Measurements RBW=VBW=1MHz</td> </tr> <tr> <td>Thanh 177079008</td> <td></td> <td>Thanh 208946003</td> <td colspan="3">HPF 4.0GHz</td> <td></td> <td colspan="8">Average Measurements RBW=1MHz ; VBW=10Hz</td> </tr> </table>															Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz			Limit	T73; S/N: 6717 @3m	T144 Miteq 3008A00931					FCC 15.209	Hi Frequency Cables															2 foot cable	3 foot cable	12 foot cable	HPF			Reject Filter	Peak Measurements RBW=VBW=1MHz								Thanh 177079008		Thanh 208946003	HPF 4.0GHz				Average Measurements RBW=1MHz ; VBW=10Hz							
Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz			Limit																																																																			
T73; S/N: 6717 @3m	T144 Miteq 3008A00931					FCC 15.209																																																																			
Hi Frequency Cables																																																																									
2 foot cable	3 foot cable	12 foot cable	HPF			Reject Filter	Peak Measurements RBW=VBW=1MHz																																																																		
Thanh 177079008		Thanh 208946003	HPF 4.0GHz				Average Measurements RBW=1MHz ; VBW=10Hz																																																																		
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)																																																										
Low Ch 2412 MHz																																																																									
4.824	3.0	49.9	36.7	33.7	2.8	-36.5	0.0	0.6	50.5	37.3	74	54	-23.5	-16.7	V																																																										
7.236	3.0	53.8	39.1	35.4	3.3	-36.2	0.0	0.6	56.9	42.3	74	54	-17.1	-11.7	V																																																										
9.648	3.0	45.1	33.6	37.5	3.7	-37.0	0.0	0.8	50.1	38.7	74	54	-23.9	-15.3	Noise floor																																																										
4.824	3.0	46.0	33.8	33.7	2.8	-36.5	0.0	0.6	46.6	34.4	74	54	-27.4	-19.6	H																																																										
7.236	3.0	46.8	34.5	35.4	3.3	-36.2	0.0	0.6	49.9	37.6	74	54	-24.1	-16.4	H																																																										
9.648	3.0	45.2	33.3	37.5	3.7	-37.0	0.0	0.8	50.2	38.3	74	54	-23.8	-15.7	Noise floor																																																										
Mid Ch 2437MHz																																																																									
4.874	3.0	48.3	35.4	33.8	2.8	-36.5	0.0	0.6	49.0	36.1	74	54	-25.0	-17.9	V																																																										
7.311	3.0	50.9	35.6	35.5	3.3	-36.2	0.0	0.6	54.1	38.8	74	54	-19.9	-15.2	V																																																										
9.748	3.0	47.0	33.8	37.5	3.7	-37.0	0.0	0.8	52.1	38.9	74	54	-21.9	-15.1	Noise floor																																																										
4.874	3.0	46.7	33.6	33.8	2.8	-36.5	0.0	0.6	47.4	34.3	74	54	-26.6	-19.7	H																																																										
7.311	3.0	46.3	33.5	35.5	3.3	-36.2	0.0	0.6	49.5	36.8	74	54	-24.5	-17.2	H																																																										
9.748	3.0	48.9	35.7	37.5	3.7	-37.0	0.0	0.8	53.9	40.7	74	54	-20.1	-13.3	Noise floor																																																										
High Ch 2462MHz																																																																									
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7.386	3.0	50.3	34.4	35.6	3.3	-36.2	0.0	0.6	53.7	37.8	74	54	-20.3	-16.2	V																																																										
9.848	3.0	44.5	32.2	37.6	3.7	-37.0	0.0	0.8	49.6	37.3	74	54	-24.4	-16.7	Noise floor																																																										
4.924	3.0	44.5	33.8	33.8	2.8	-36.5	0.0	0.6	45.3	34.6	74	54	-28.7	-19.4	H																																																										
7.386	3.0	44.9	30.6	35.6	3.3	-36.2	0.0	0.6	48.2	33.9	74	54	-25.8	-20.1	H																																																										
9.848	3.0	43.5	32.2	37.6	3.7	-37.0	0.0	0.8	48.7	37.3	74	54	-25.3	-16.7	Noise floor																																																										
No other spurious emissions were detected above 3rd harmonics.																																																																									
f Measurement Frequency Dist Distance to Antenna Read Analyzer Reading AF Antenna Factor CL Cable Loss					Amp Preamp Gain D Corr Distance Correct to 3 meters Avg Average Field Strength @ 3 m Peak Calculated Peak Field Strength HPF High Pass Filter					Avg Lim Average Field Strength Limit Pk Lim Peak Field Strength Limit Avg Mar Margin vs. Average Limit Pk Mar Margin vs. Peak Limit																																																															

7.2.4. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz

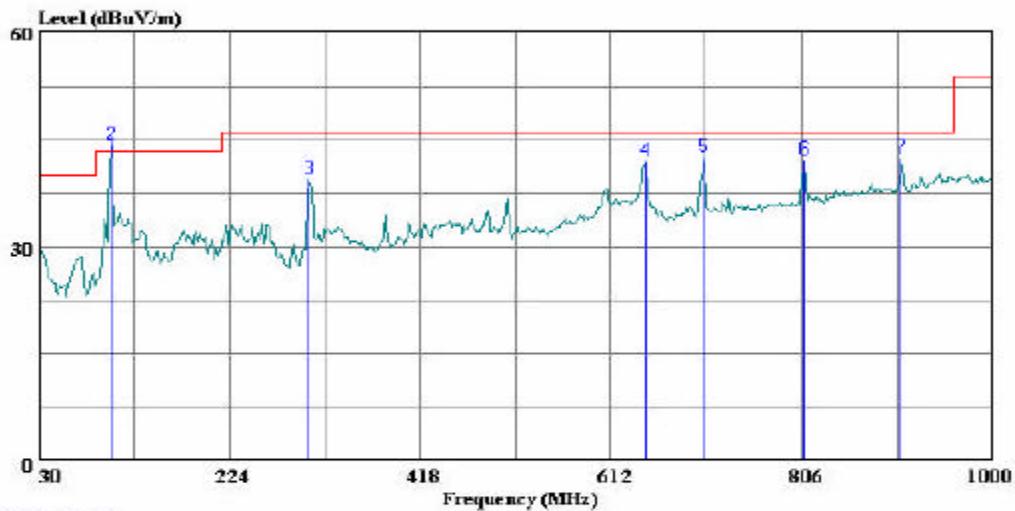
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



561F Monterey Road
Morgan Hill, CA 95037
Tel: (408) 463-0888
Fax: (408) 463-0885

Data#: 10 File#: Ap.emi Date: 04-06-2006 Time: 08:45:38



(Audit ATC)
Trace: 7

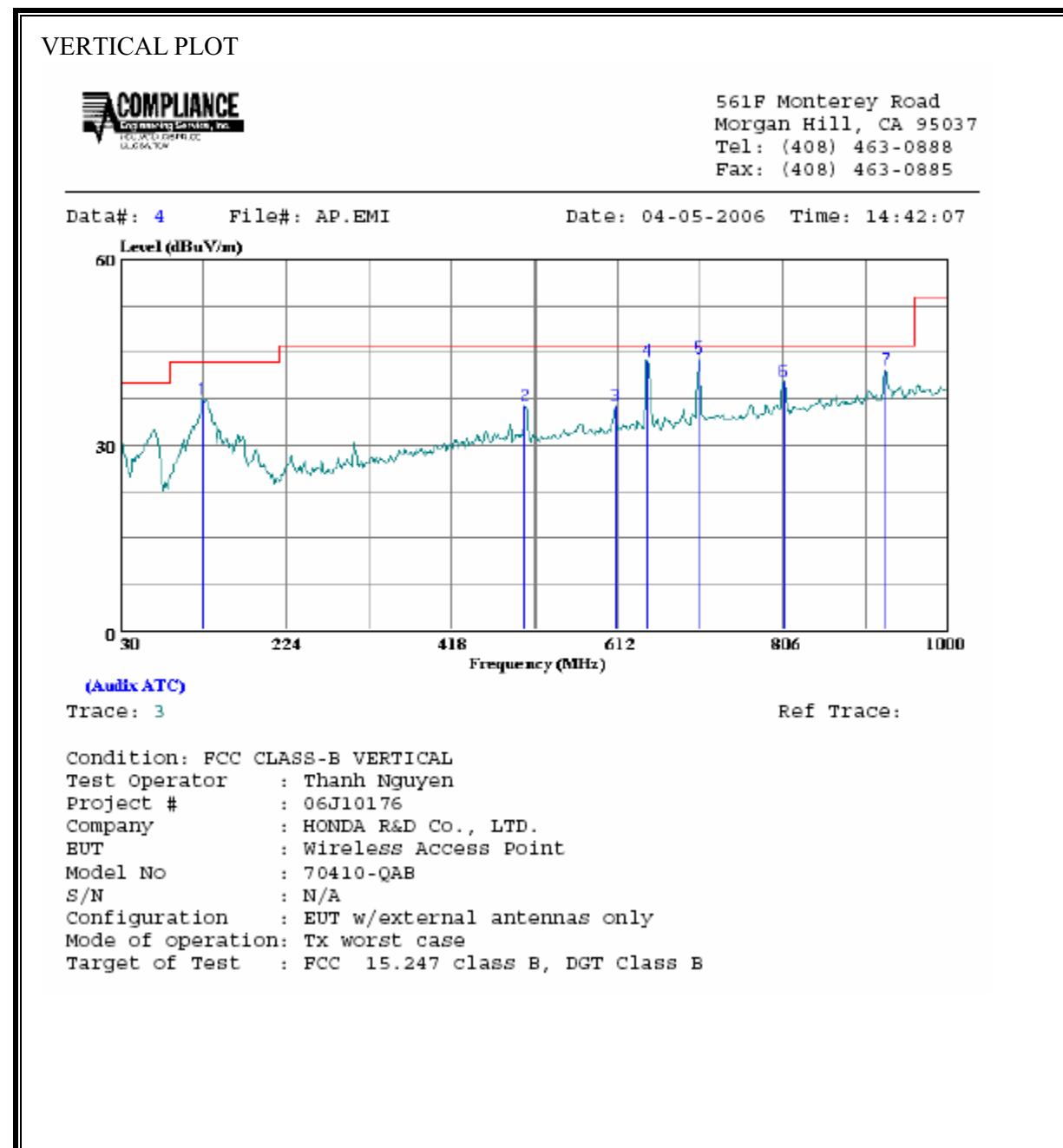
Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator : Thanh Nguyen
Project # : 06J10176
Company : HONDA R&D Co., LTD.
BUT : Wireless Access Point
Model No : 70410-QAB
S/N : N/A
Configuration : EUT w/external antennas only
Mode of operation: Tx worst case
Target of Test : FCC 15.247 class B, DGT Class B

HORIZONTAL DATA

Freq	Read		Limit		Over	
	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	104.690	30.40	12.38	42.78	43.50	-0.72 QP
2 *	104.690	31.94	12.38	44.32	43.50	0.82 Peak
3	305.480	23.70	15.80	39.50	46.00	-6.50 Peak
4	647.890	19.56	22.29	41.85	46.00	-4.15 Peak
5	708.030	19.41	23.23	42.64	46.00	-3.36 Peak
6	807.940	17.39	24.69	42.08	46.00	-3.92 Peak
7	906.880	16.41	26.01	42.42	46.00	-3.58 Peak

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



VERTICAL DATA

Freq	Read			Limit	Over	Over
	Level	Factor	Level			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	127.000	22.11	15.22	37.34	43.50	-6.16 Peak
2	504.330	16.17	20.26	36.43	46.00	-9.57 Peak
3	609.090	14.62	21.66	36.28	46.00	-9.72 Peak
4	645.950	21.28	22.25	43.53	46.00	-2.47 Peak
5	708.030	20.80	23.23	44.03	46.00	-1.97 Peak
6	806.970	15.67	24.66	40.33	46.00	-5.67 Peak
7	926.280	15.99	26.23	42.22	46.00	-3.78 Peak

7.3. POWERLINE CONDUCTED EMISSIONS

LIMIT

§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 μ 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.

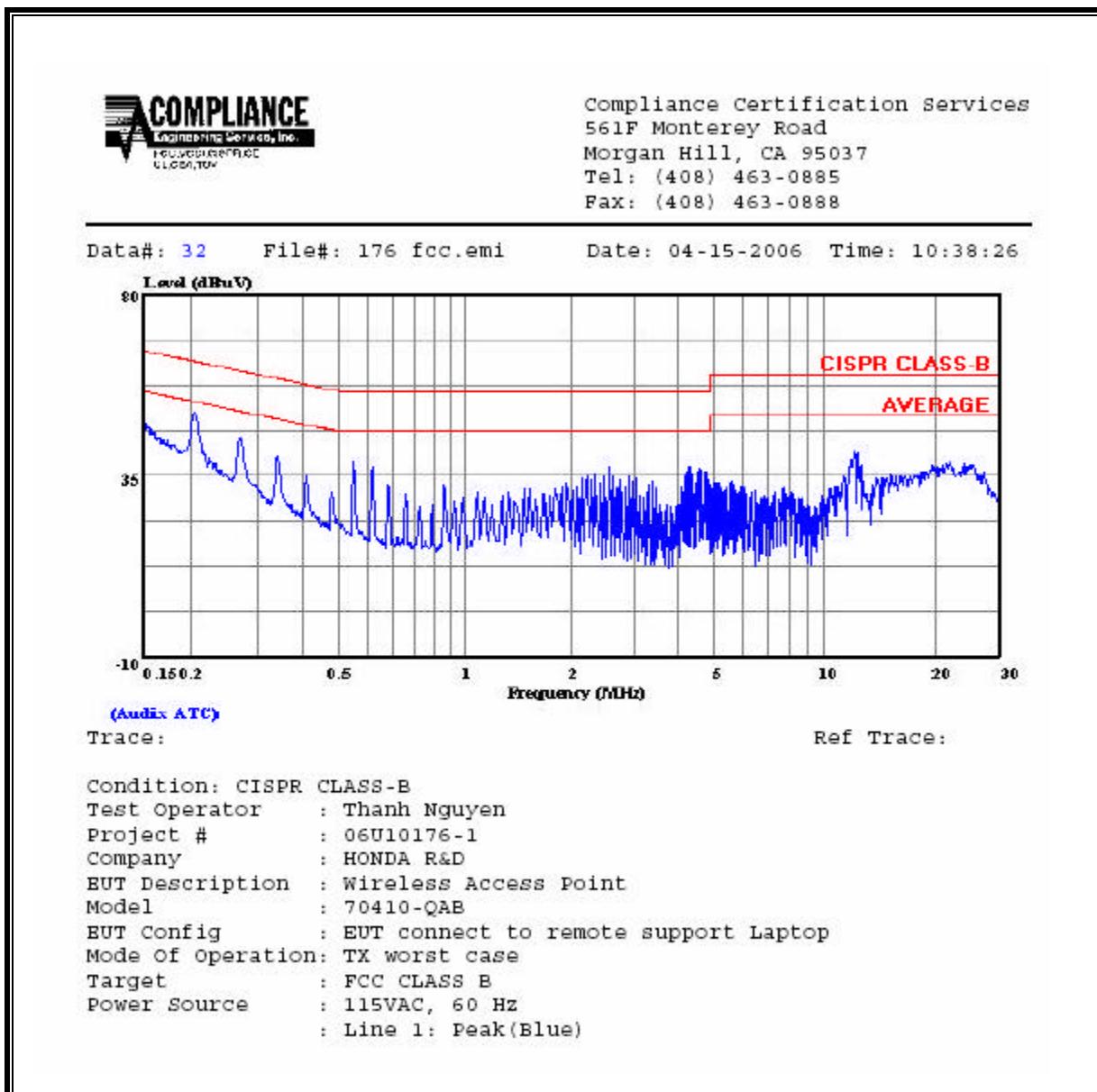
RESULTS

No non-compliance noted:

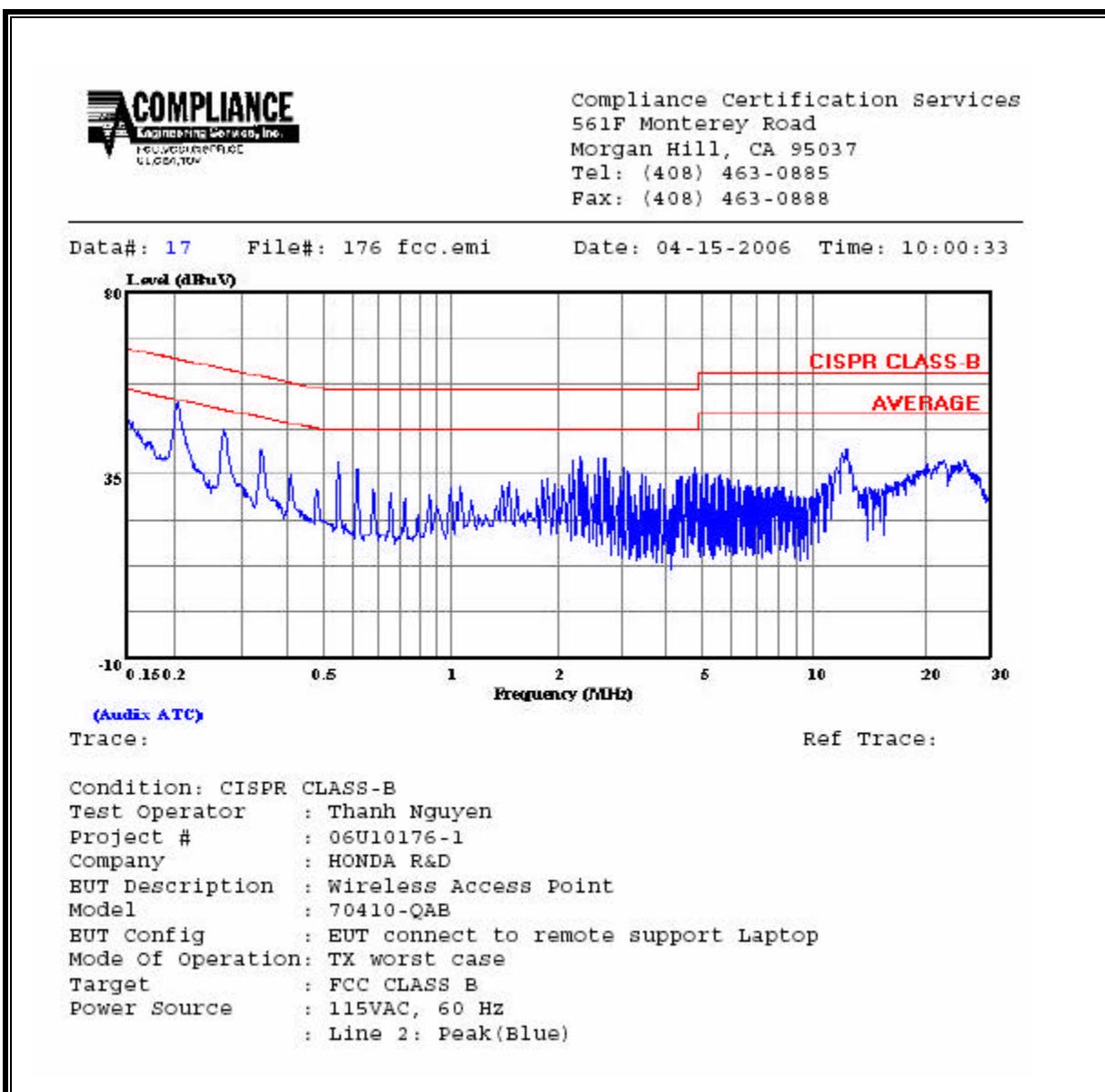
6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)										
Freq. (MHz)	Reading			Closs (dB)	Limit	EN_B		Margin		Remark
	PK (dBuV)	QP (dBuV)	AV (dBuV)			QP	AV	QP (dB)	AV (dB)	
0.21	50.72	--	--	0.00	63.41	53.41	-12.69	-2.69	L1	
2.69	37.16	--	--	0.00	56.00	46.00	-18.84	-8.84	L1	
12.12	41.00	--	--	0.00	60.00	50.00	-19.00	-9.00	L1	
0.20	52.76	--	--	0.00	63.45	53.45	-10.69	-0.69	L2	
2.46	38.36	--	--	0.00	56.00	46.00	-17.64	-7.64	L2	
12.38	41.26	--	--	0.00	60.00	50.00	-18.74	-8.74	L2	
6 Worst Data										

LINE 1 RESULTS

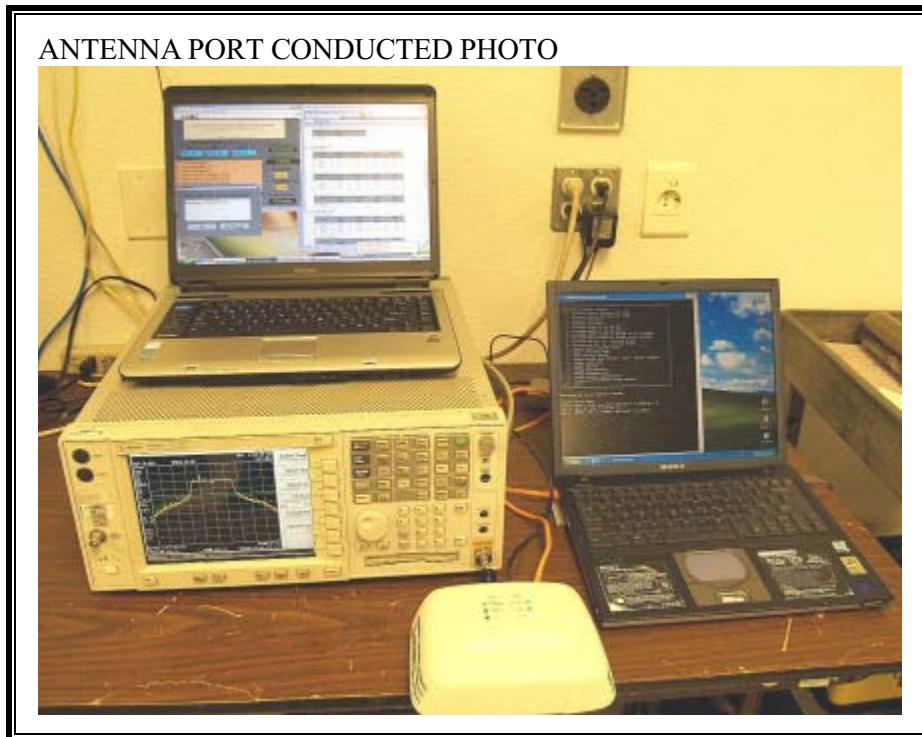


LINE 2 RESULTS

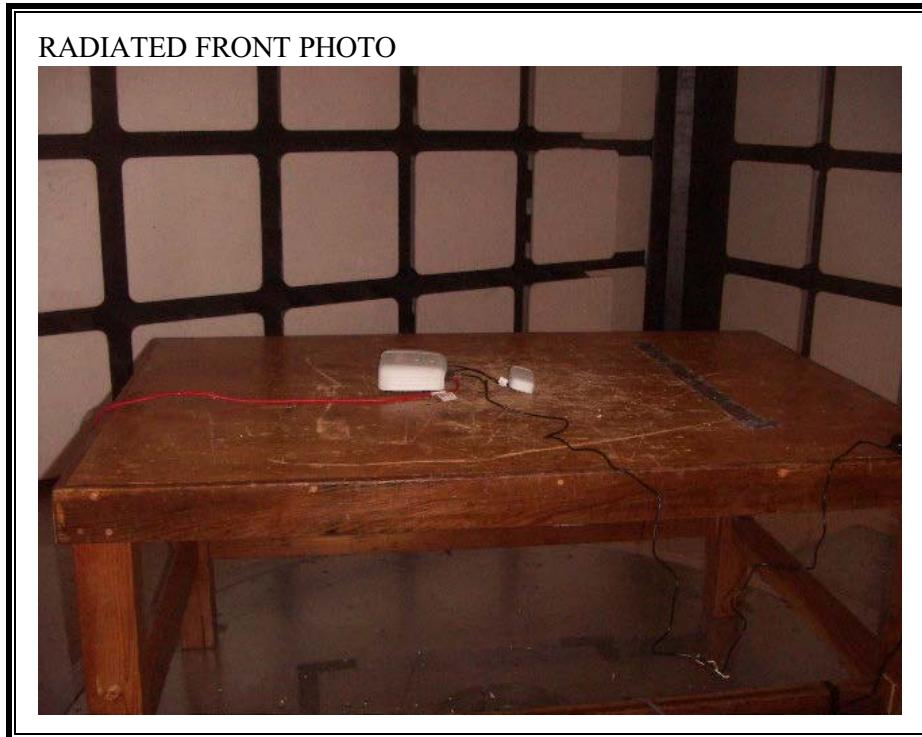


8. SETUP PHOTOS

ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



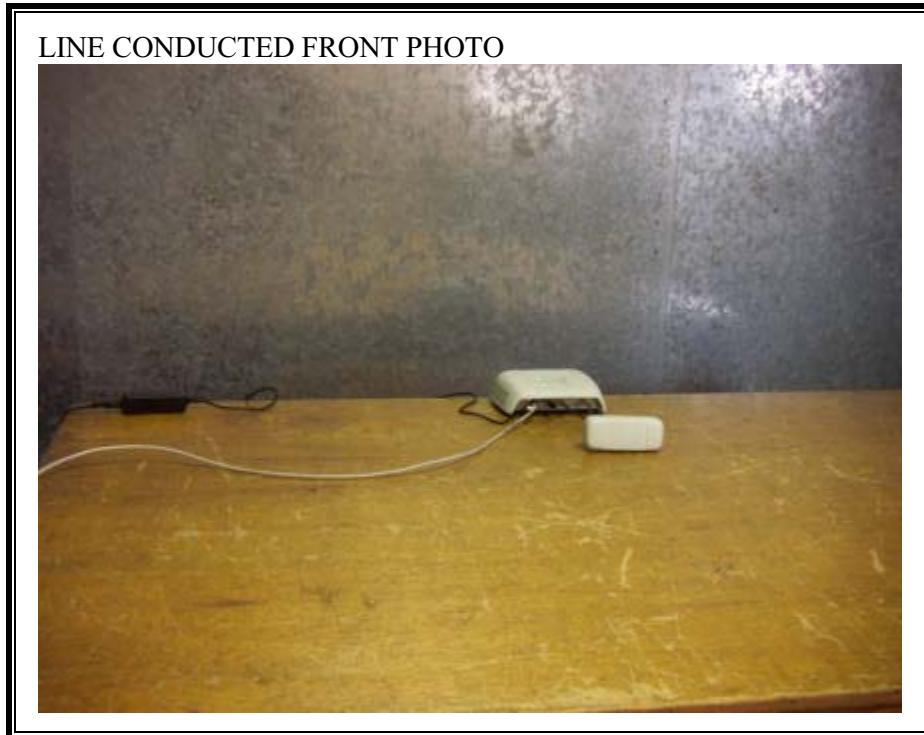
RADIATED RF MEASUREMENT SETUP



RADIATED BACK PHOTO



POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP



LINE CONDUCTED BACK PHOTO



END OF REPORT