

**Table 8 Open Field Radiated Emissions For 1GHz 25GHz [Horizontal] [CH 6]**

<b>Radiated Emission</b>				<b>Corrected Amplitude</b> (dBµV/m)		<b>FCC Class B ( 3m )</b>		
<b>Frequency (MHz)</b>	<b>Ant. H. (m)</b>	<b>Table ( ° )</b>	<b>Correction Factors (dB)</b>			<b>Limit (dBµV/m)</b>		<b>Margin (dB)</b>
				<b>Peak</b>	<b>Average</b>	<b>Peak</b>	<b>Ave.</b>	
2062.98	1.00	117	1.18	46.69	41.57	74.00	53.96	-12.39

**Table 9 Open Field Radiated Emissions For 1GHz 25GHz [ Vertical] [CH 6]**

<b>Radiated Emission</b>				<b>Corrected Amplitude</b> (dBµV/m)		<b>FCC Class B ( 3m )</b>		
<b>Frequency (MHz)</b>	<b>Ant. H. (m)</b>	<b>Table ( ° )</b>	<b>Correction Factors (dB)</b>			<b>Limit (dBµV/m)</b>		<b>Margin (dB)</b>
				<b>Peak</b>	<b>Average</b>	<b>Peak</b>	<b>Ave.</b>	
2062.98	1.00	255	1.18	44.64	42.87	74.00	53.96	-11.09

Note:

1. Margin = Corrected - Limit.
2. The EUT utilizes a *permanently attached antenna*. In addition the spurious RF radiated emissions levels do comply with the *20dBc limit* both at its bandedges and other spurious emissions.
3. As stated in Section 15.35(b), for any frequencies above 1000MHz, radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. As the results of our test, the peak amplitudes are already below the FCC limit. Thus the average amplitudes of the rest are omitted.

**Table 10 Open Field Radiated Emissions For 1GHz 25GHz [Horizontal] [CH 11]**

<b>Radiated Emission</b>				<b>Corrected Amplitude</b>		<b>FCC Class B ( 3m )</b>		
<b>Frequency (MHz)</b>	<b>Ant. H. (m)</b>	<b>Table ( ° )</b>	<b>Correction Factors (dB)</b>	<b>(dBµV/m)</b>		<b>Limit (dBµV/m)</b>		<b>Margin (dB)</b>
				<b>Peak</b>	<b>Average</b>	<b>Peak</b>	<b>Ave.</b>	
2087.50	1.00	33	1.31	47.81	---	74.00	54.00	-6.19

**Table 11 Open Field Radiated Emissions For 1GHz 25GHz [ Vertical] [CH 11]**

<b>Radiated Emission</b>				<b>Corrected Amplitude</b>		<b>FCC Class B ( 3m )</b>		
<b>Frequency (MHz)</b>	<b>Ant. H. (m)</b>	<b>Table ( ° )</b>	<b>Correction Factors (dB)</b>	<b>(dBµV/m)</b>		<b>Limit (dBµV/m)</b>		<b>Margin (dB)</b>
				<b>Peak</b>	<b>Average</b>	<b>Peak</b>	<b>Ave.</b>	
2087.98	1.00	176	1.31	47.14	43.14	74.00	54.00	-10.86

Note:

1. Margin = Corrected - Limit.
2. The EUT utilizes a *permanently attached antenna*. In addition the spurious RF radiated emissions levels do comply with the *20dBc limit* both at its bandedges and other spurious emissions.
3. As stated in Section 15.35(b), for any frequencies above 1000MHz, radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. As the results of our test, the peak amplitudes are already below the FCC limit. Thus the average amplitudes of the rest are omitted.

#### **7.4 Test Result of the Bandedge**

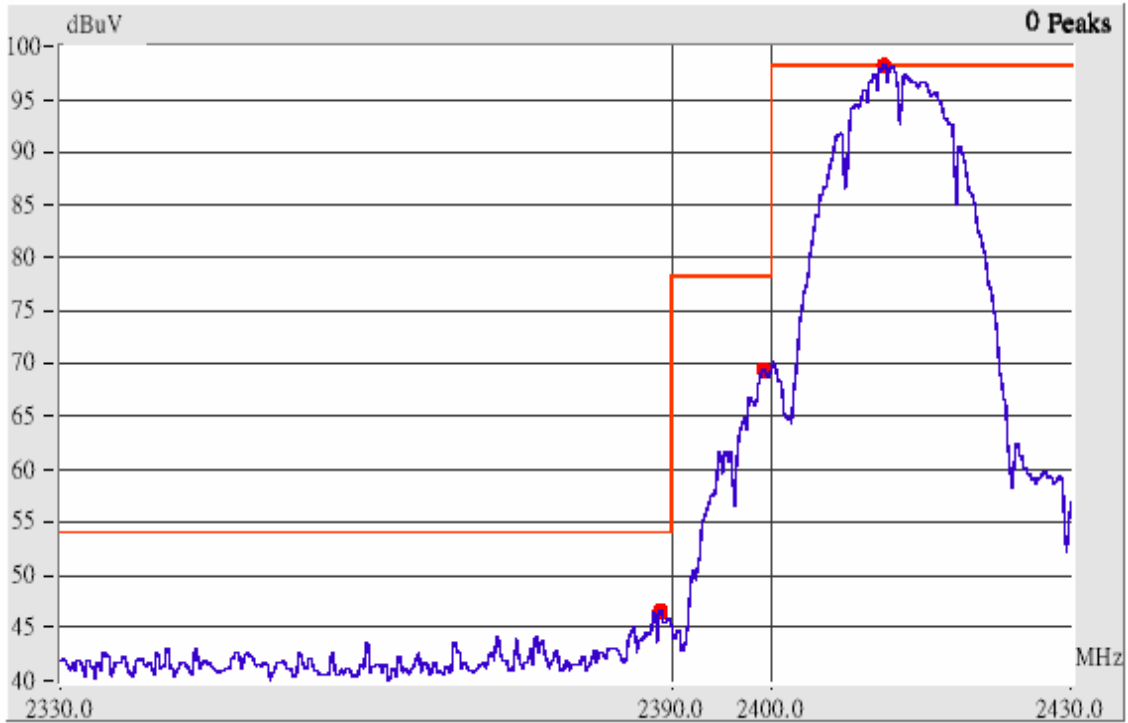
If any 1000 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either *at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in § 15.209(a)*,

We perform this section by the *radiated* manner, the RBW is set to 100kHz and VBW>RBW. We'd made the observation *up to 10<sup>th</sup> harmonics and the criterion is all the harmonic/spurious emissions must be 20dB below the highest emission level measured*. If the emissions fall in the restricted bands stated in the Part15.205(a) must also *comply with the radiated emission limits specified in Part15.209(a)*.  
(Peak mode: RBW=VBW=1MHz, Average mode: RBW=1MHz; VBW=10Hz)

The following pages show our observations referring to the channel 1 and 11 respectively.

Test Condition & Setup: same as < 8.1 >

Channel 1



This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

1. The lobe left by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

<i>Radiated Emission</i>					<i>Corrected Amplitude</i>		<i>FCC Class B ( 3m )</i>		
<i>Frequency (MHz)</i>	<i>Ant. P.</i>	<i>Ant. H. (m)</i>	<i>Table ( ° )</i>	<i>Factors (dB)</i>	<i>(dBµV/m)</i>		<i>Limit (dBµV/m)</i>		<i>Margin (dB)</i>
					<i>Peak</i>	<i>Average</i>	<i>Peak</i>	<i>Ave.</i>	
2375.63	Hor	1.00	95	3.09	51.00	---	74.00	53.96	-2.96
2389.99	Hor	1.00	241	3.13	49.36	---	74.00	53.96	-4.60
2330.20	Ver	1.00	251	2.94	45.72	---	74.00	53.96	-8.24
2389.99	Ver	1.00	176	3.13	43.84	---	74.00	53.96	-10.12

Channel 11



This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

1. The lobe right by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

<i>Radiated Emission</i>					<i>Corrected Amplitude</i>		<i>FCC Class B ( 3m )</i>		
<i>Frequency (MHz)</i>	<i>Ant. P.</i>	<i>Ant. H. (m)</i>	<i>Table ( ° )</i>	<i>Factors (dB)</i>	<i>(dBµV/m)</i>		<i>Limit (dBµV/m)</i>		<i>Margin (dB)</i>
					<i>Peak</i>	<i>Average</i>	<i>Peak</i>	<i>Ave.</i>	
2483.50	Hor	1.00	47	3.45	43.69	---	74.00	53.96	-10.27
2485.11	Hor	1.00	264	3.45	46.33	---	74.00	53.96	-7.63
2500.02	Hor	1.00	109	3.50	42.77	---	74.00	53.96	-11.19
2486.09	Ver	1.00	157	3.45	42.58	---	74.00	53.96	-11.38
2510.07	Ver	1.00	138	3.51	42.83	---	74.00	53.96	-11.13

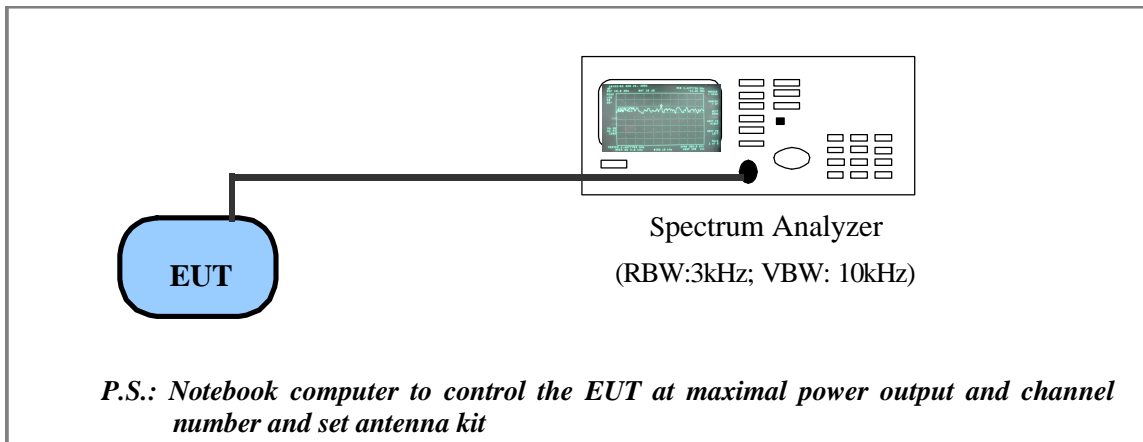
**IX. Section 15.247(d): Power Spectral Density**

**8.1 Test Condition & Setup**

The tests below are running with the EUT transmitter set at high power in TDD mode . The EUT is needed to force selection of output power level and channel number. While testing, the EUT was set to transmit continuously and to be tested by the contact manner with the spectrum analyzer.

The attachments below show our observation.

**8.2 Test Instruments Configuration**



Test Configuration of Power Spectral Density

**8.3 List of Test Instruments**

Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
Spectrum Analyzer	8564E	HP	US36433002	08/01/02	08/01/03

**8.4 Test Result of Power spectral density**

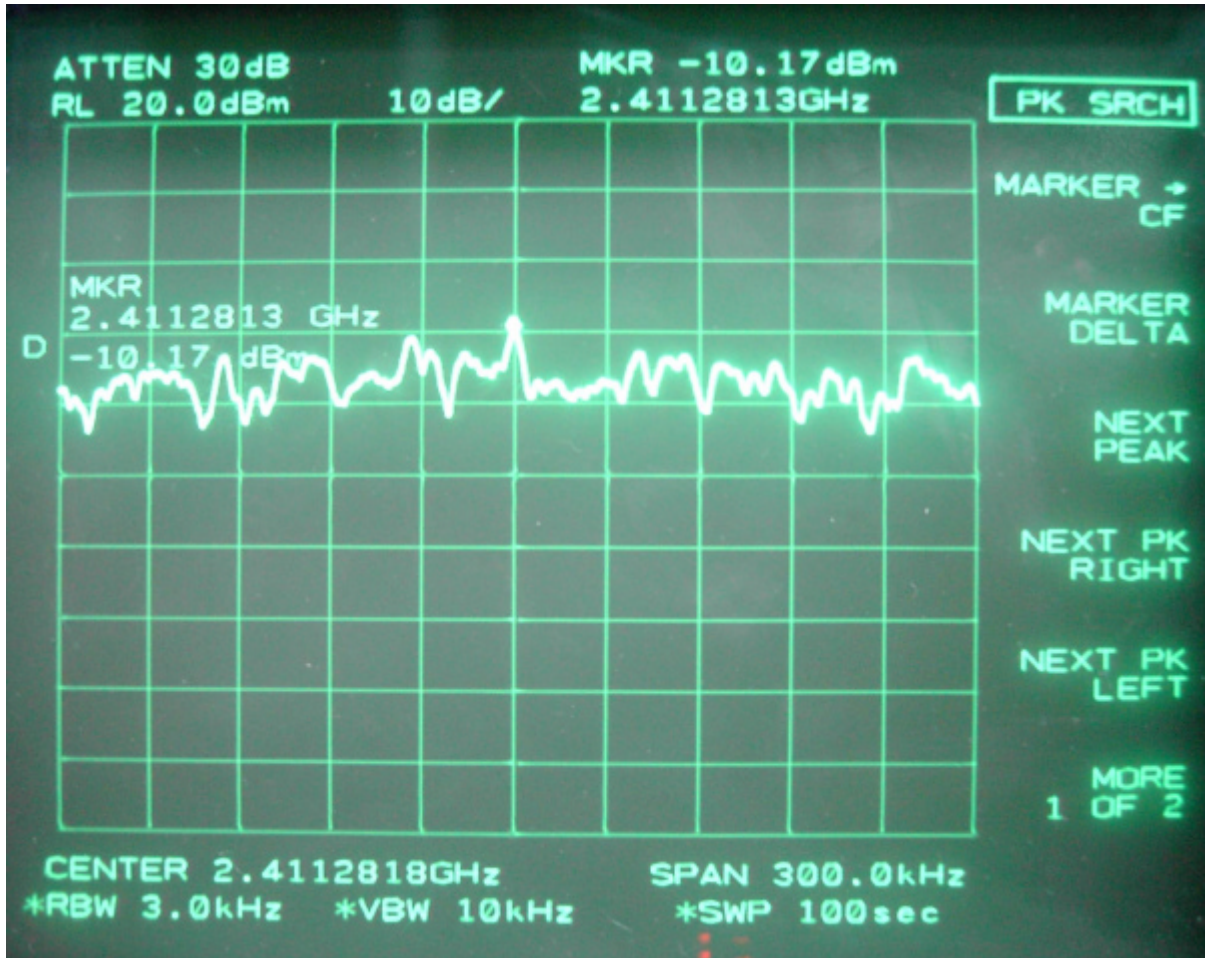
The following table shows a summary of the test results of the Power Spectral Density.

<i>Channel</i>	<i>Frequency (GHz)</i>	<i>Ppr (dBm)</i>	<i>Cable Loss (dB)</i>	<i>Ppq (dBm)</i>	<i>Limit (dB)</i>	<i>Margin (dB)</i>
CH 01	2.412	-10.17	1.80	-8.37	8.00	-16.37
CH 06	2.437	-10.17	1.85	-8.32	8.00	-16.32
CH 11	2.462	-12.00	1.93	-10.07	8.00	-18.07

Note:

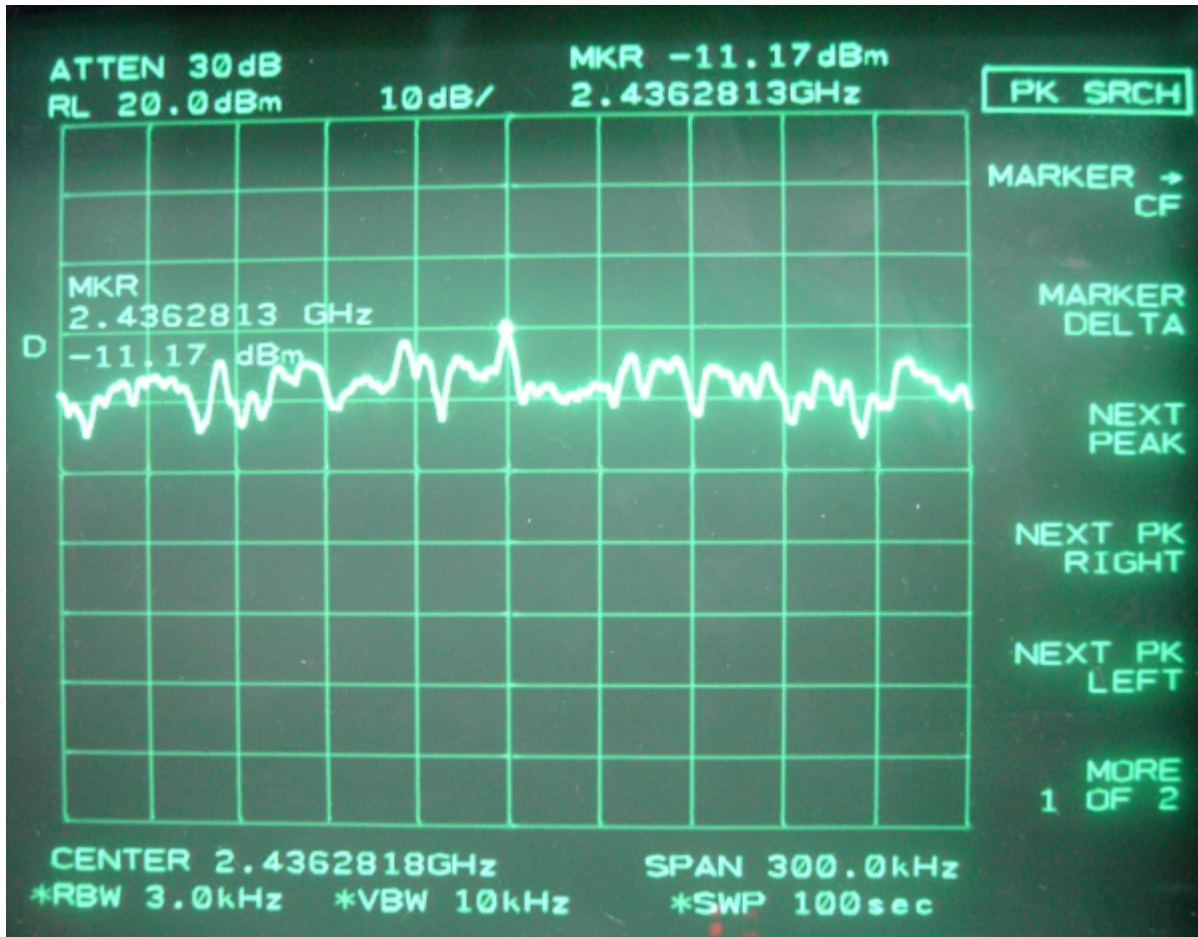
1. The attachment follow by this page and there is no page number.
2. Ppr: spectrum read power density (using peak search mode),  
Ppq: actual peak power density in the spread spectrum band.
3.  $Ppq = Ppr + |Cable Loss|$

Channel 01





Channel 06



Channel 11

