

## 6. Band Edge

### 6.1. Test Equipment

#### RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

#### RF Radiated Measurement:

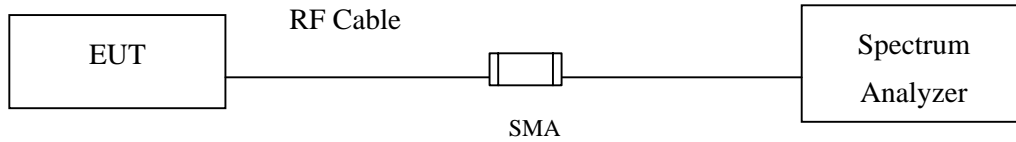
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2012
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2012
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2012
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2012
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2012
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2012
	X	Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

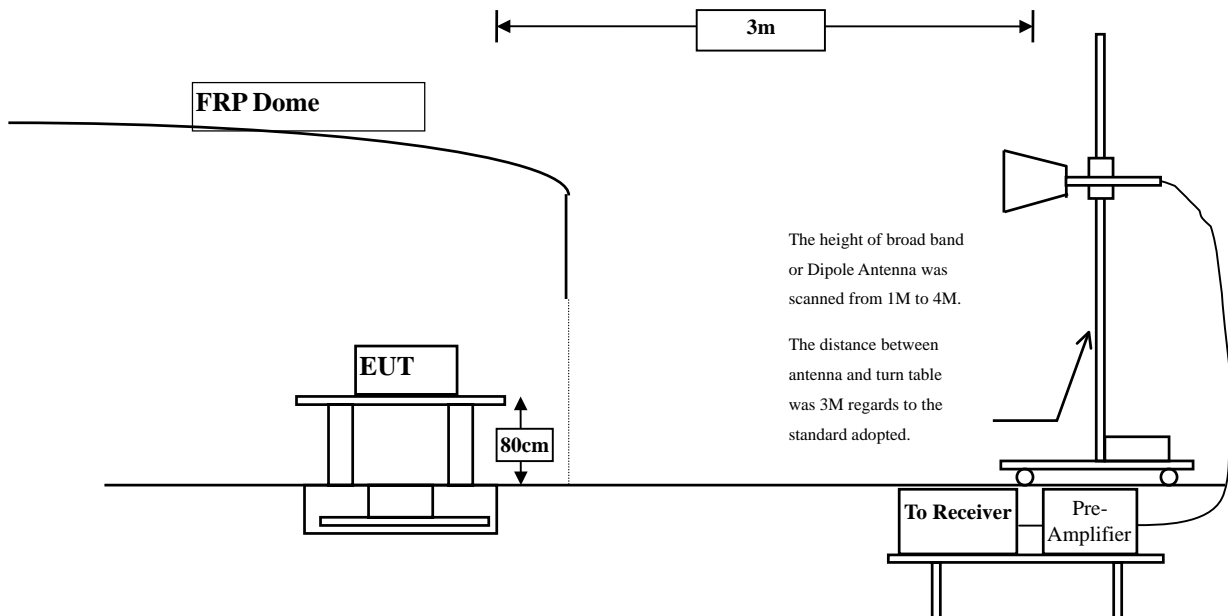
- Note:
1. All instruments are calibrated every one year.
  2. The test instruments marked by "X" are used to measure the final test results.

## 6.2. Test Setup

### RF Conducted Measurement



### RF Radiated Measurement:



## 6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

#### **6.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

#### **6.5. Uncertainty**

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

## 6.6. Test Result of Band Edge

Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) -MCU 162MHz

### Fundamental Filed Strength

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	31.639	71.01	102.648	Peak
Horizontal	2412	31.639	67.12	98.758	Average
Vertical	2412	30.95	69.5	100.449	Peak
Vertical	2412	30.95	65.5	96.449	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

### Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2389.8	102.648	36.597	66.051	74.000	Peak
Horizontal	2389.3	98.758	55.924	42.834	54.000	Average
Vertical	2389.8	100.449	36.597	63.852	74.000	Peak
Vertical	2389.3	96.449	55.924	40.525	54.000	Average

Note:

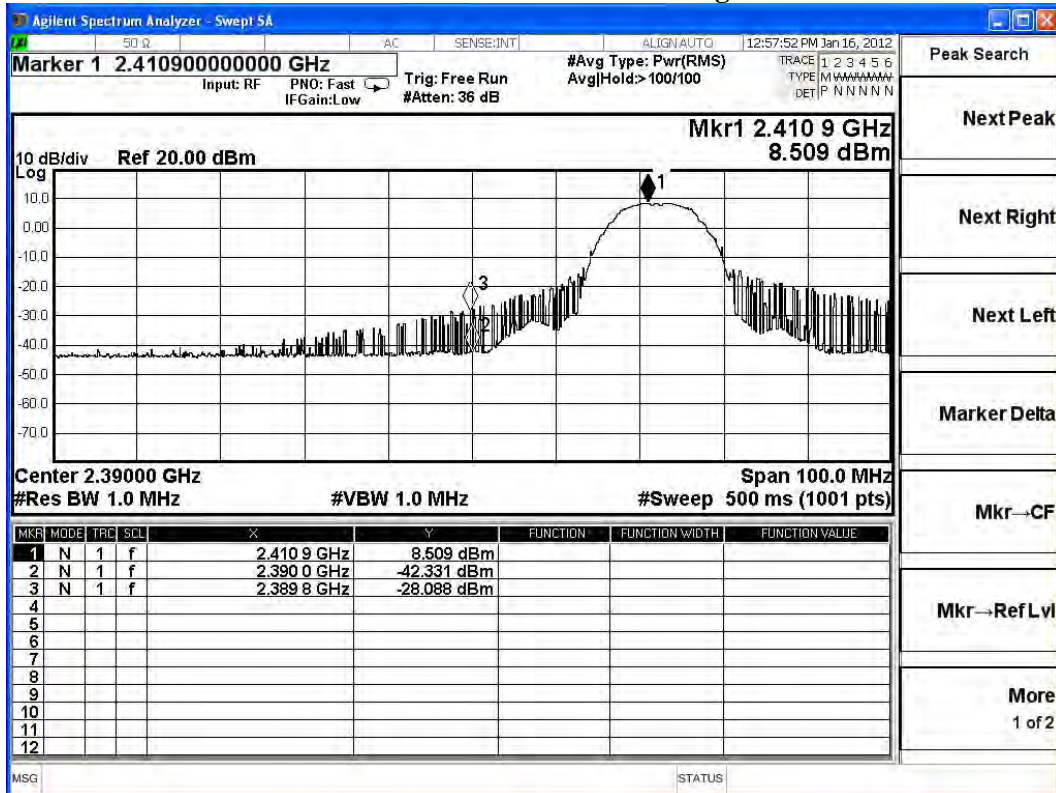
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

$$\text{Band Edge field Strength} = F - \Delta$$

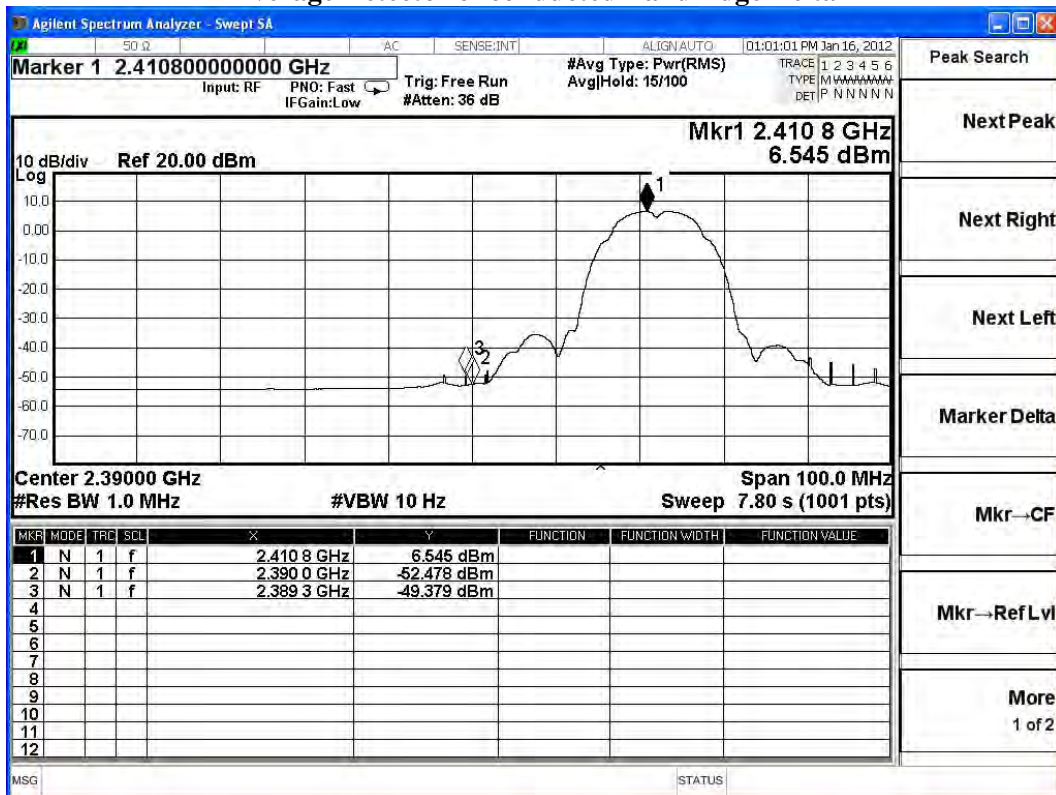
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) -MCU 162MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	67.5	99.519	Peak
Horizontal	2462	32.019	63.69	95.709	Average
Vertical	2462	31.29	66.29	97.58	Peak
Vertical	2462	31.29	62.43	93.72	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2485.1	99.519	31.819	67.7	74.000	Peak
Horizontal	2488.1	95.709	63.949	31.76	54.000	Average
Vertical	2485.1	97.58	31.819	65.761	74.000	Peak
Vertical	2488.1	93.72	63.949	29.771	54.000	Average

Note:

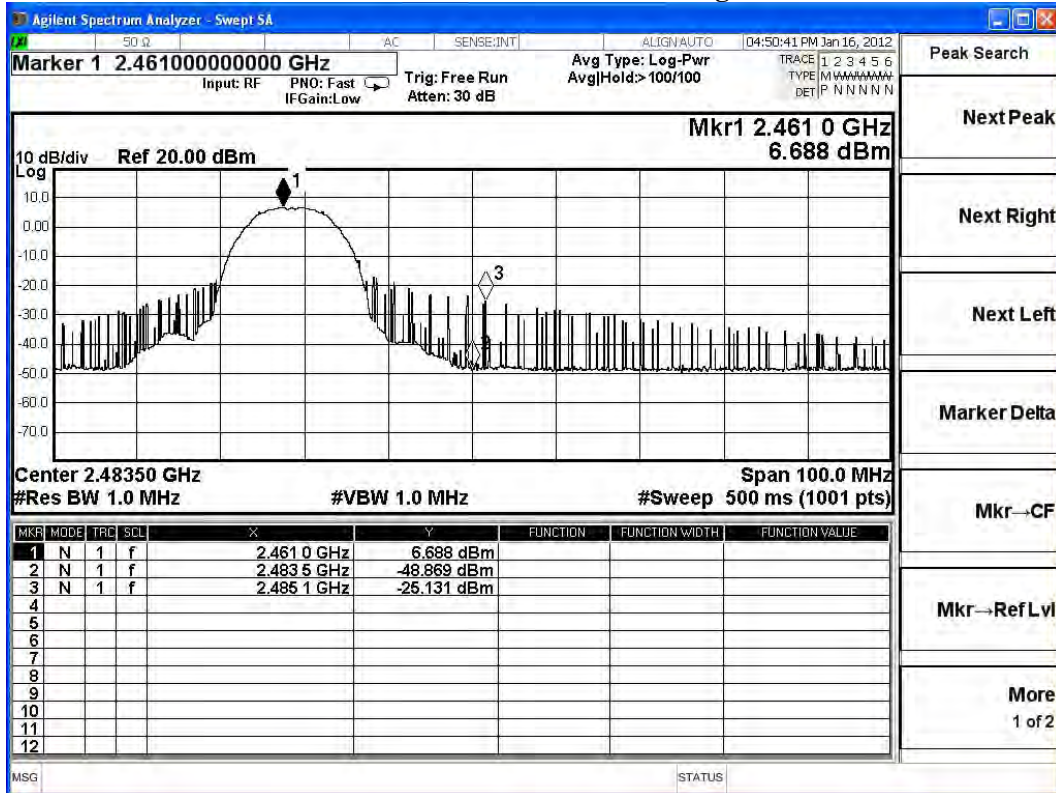
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

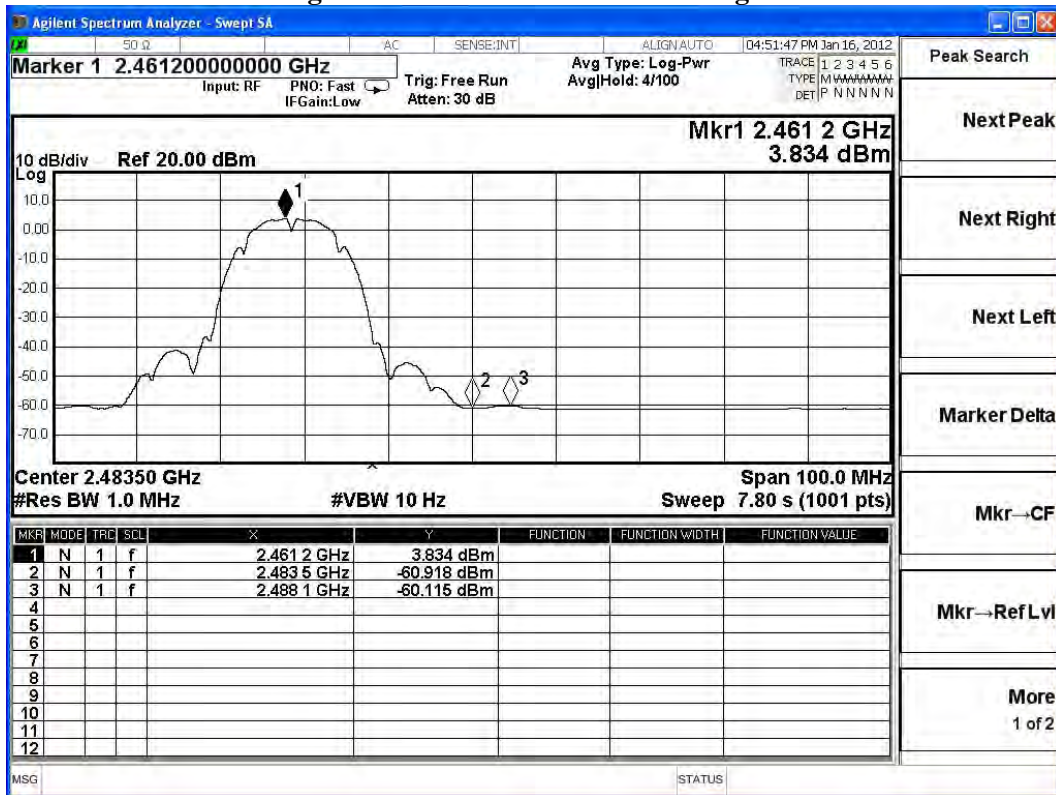
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) -MCU 162MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	31.639	69.79	101.428	Peak
Horizontal	2412	31.639	60.3	91.938	Average
Vertical	2412	30.95	64.7	95.649	Peak
Vertical	2412	30.95	55.15	86.099	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2388.1	101.428	32.376	69.052	74.000	Peak
Horizontal	2390	91.938	43.257	48.681	54.000	Average
Vertical	2388.1	95.649	32.376	63.273	74.000	Peak
Vertical	2390	86.099	43.257	42.842	54.000	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

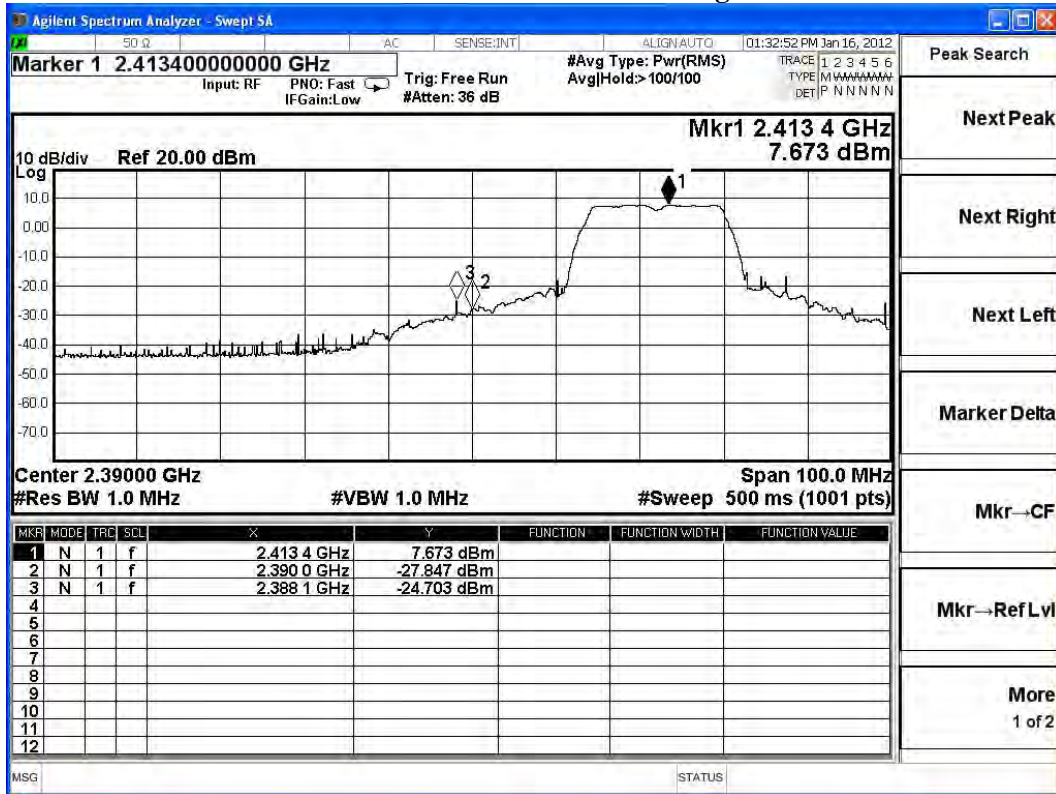
Band Edge field Strength = F -  $\Delta$

F = Fundamental field Strength (Peak or Average)

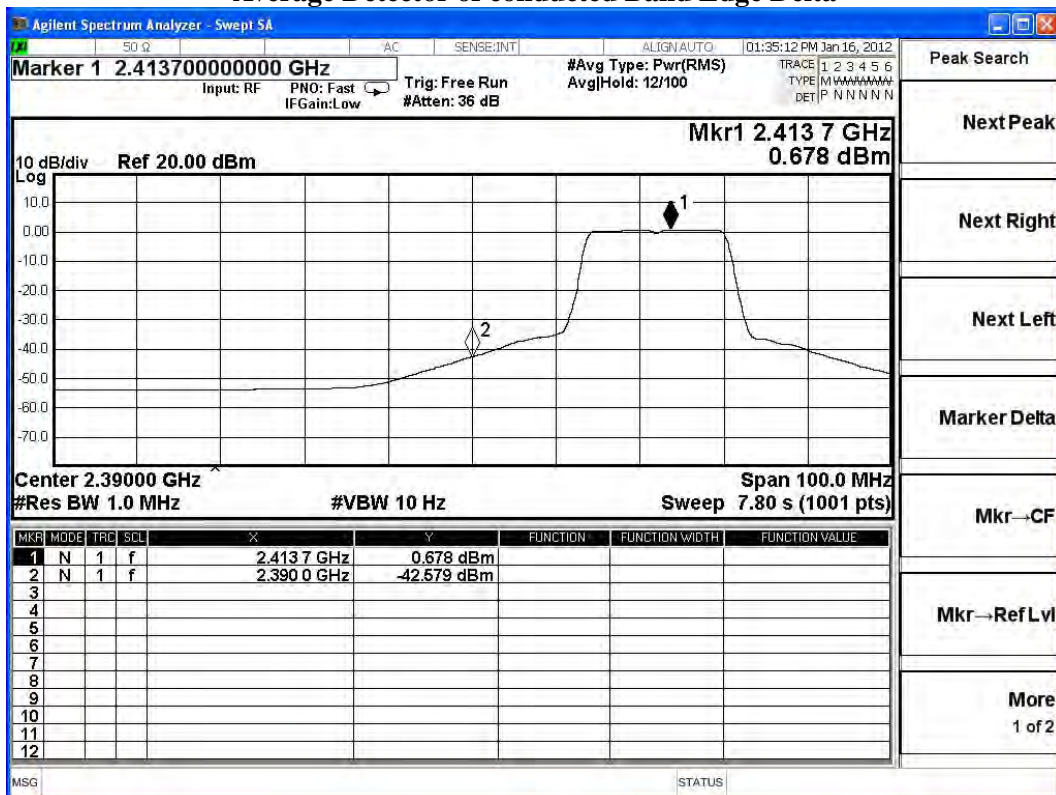
$\Delta$  = Conducted Band Edge Delta (Peak or Average)



### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) -MCU 162MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	30.95	67.9	98.849	Peak
Horizontal	2462	30.95	58.41	89.359	Average
Vertical	2462	31.29	66.56	97.85	Peak
Vertical	2462	31.29	57.14	88.43	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2494	98.849	33.737	65.112	74.000	Peak
Horizontal	2483.5	89.359	50.193	39.166	54.000	Average
Vertical	2494	97.85	33.737	64.113	74.000	Peak
Vertical	2483.5	88.43	50.193	38.237	54.000	Average

Note:

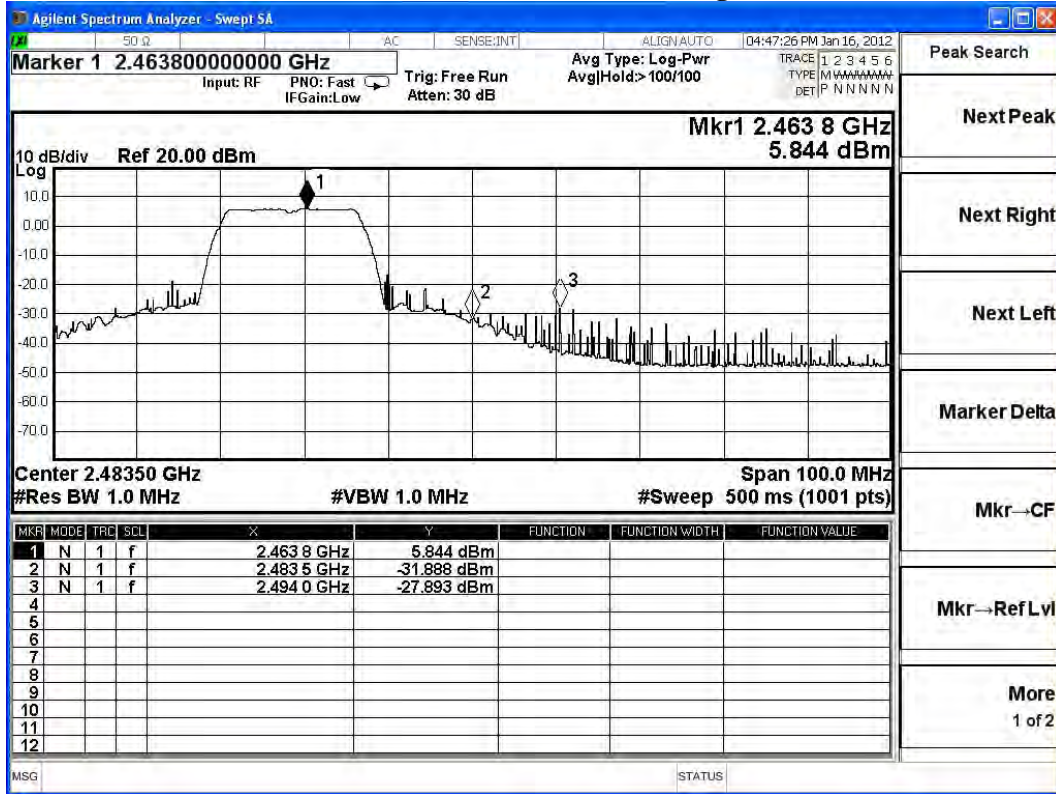
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

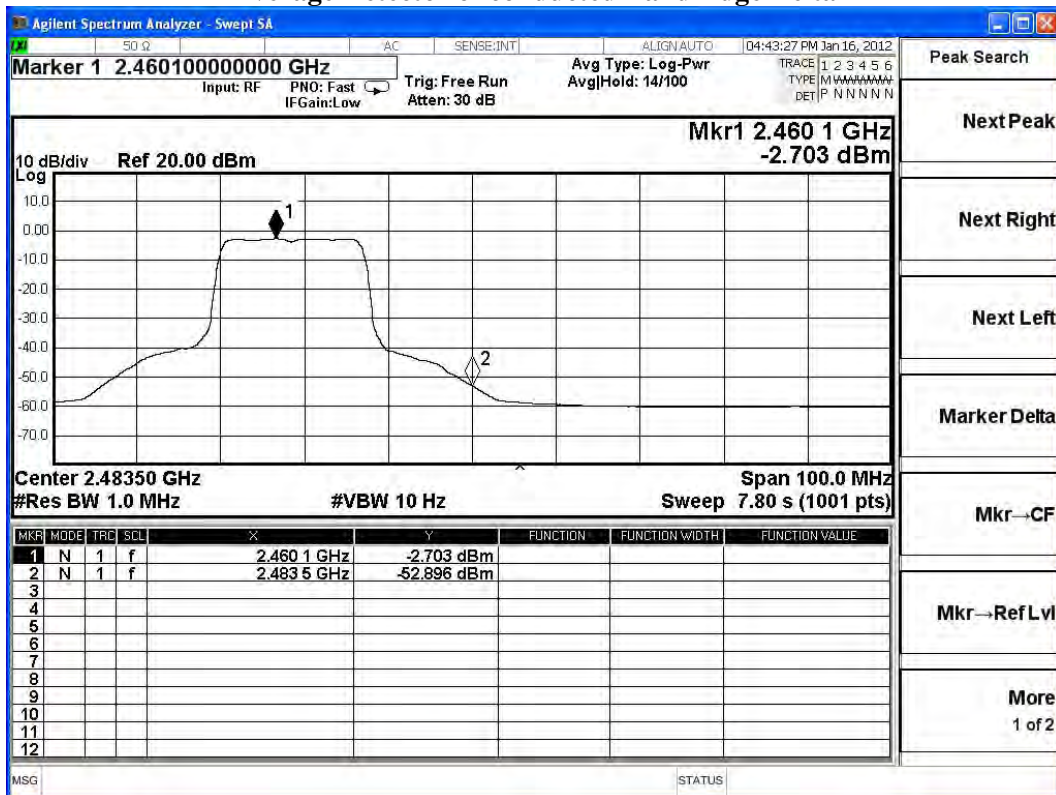
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) -MCU 162MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	31.639	69.62	101.258	Peak
Horizontal	2412	31.639	59.64	91.278	Average
Vertical	2412	30.95	67.77	98.719	Peak
Vertical	2412	30.95	57.76	88.709	Average

Note: 1: Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2389.6	101.258	34.1	67.158	74.000	Peak
Horizontal	2390	91.278	43.566	47.712	54.000	Average
Vertical	2389.6	98.719	34.1	64.619	74.000	Peak
Vertical	2390	88.709	43.566	45.143	54.000	Average

Note:

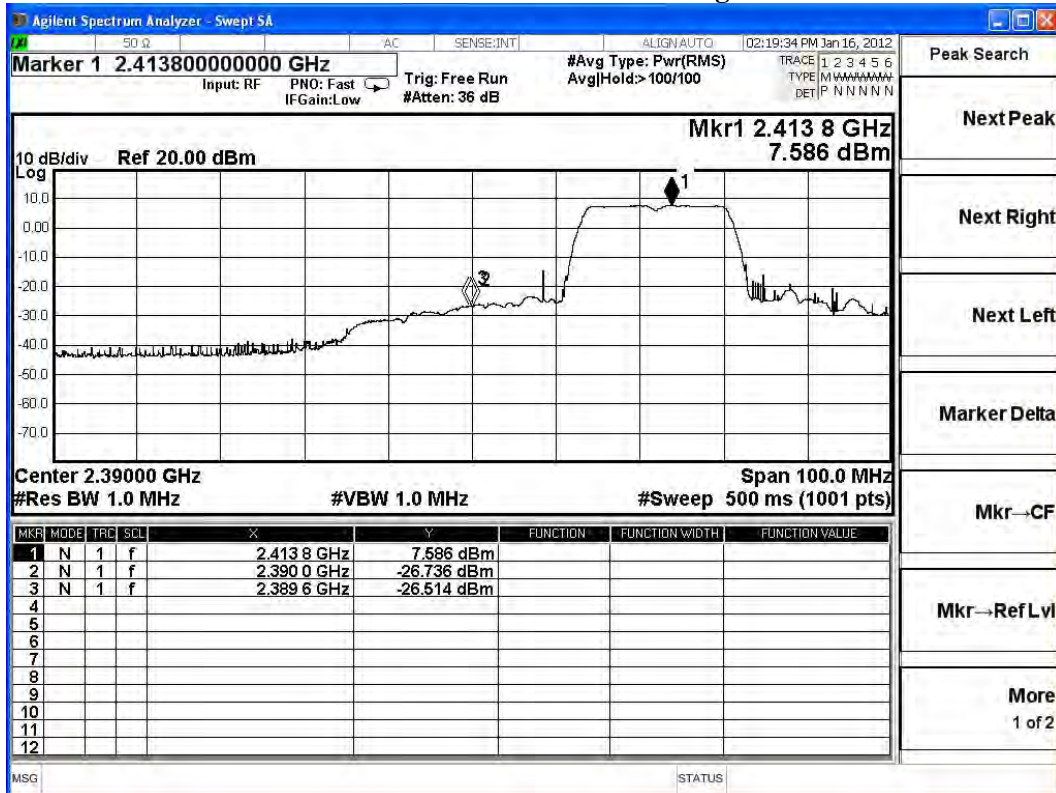
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

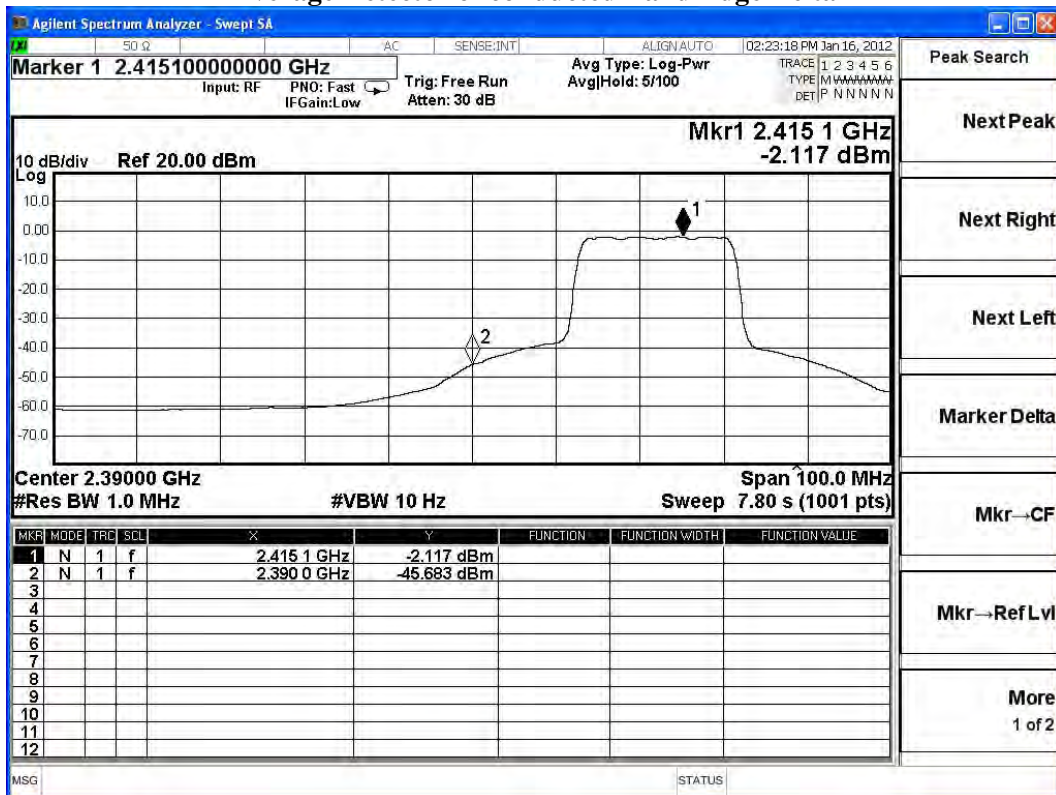
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) -MCU 162MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	66.82	98.839	Peak
Horizontal	2462	32.019	56.88	88.899	Average
Vertical	2462	31.29	66.41	97.7	Peak
Vertical	2462	31.29	56.4	87.69	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2488.6	98.839	33.175	65.664	74.000	Peak
Horizontal	2483.5	88.899	46.363	42.536	54.000	Average
Vertical	2488.6	97.7	33.175	64.525	74.000	Peak
Vertical	2483.5	87.69	46.363	41.327	54.000	Average

Note:

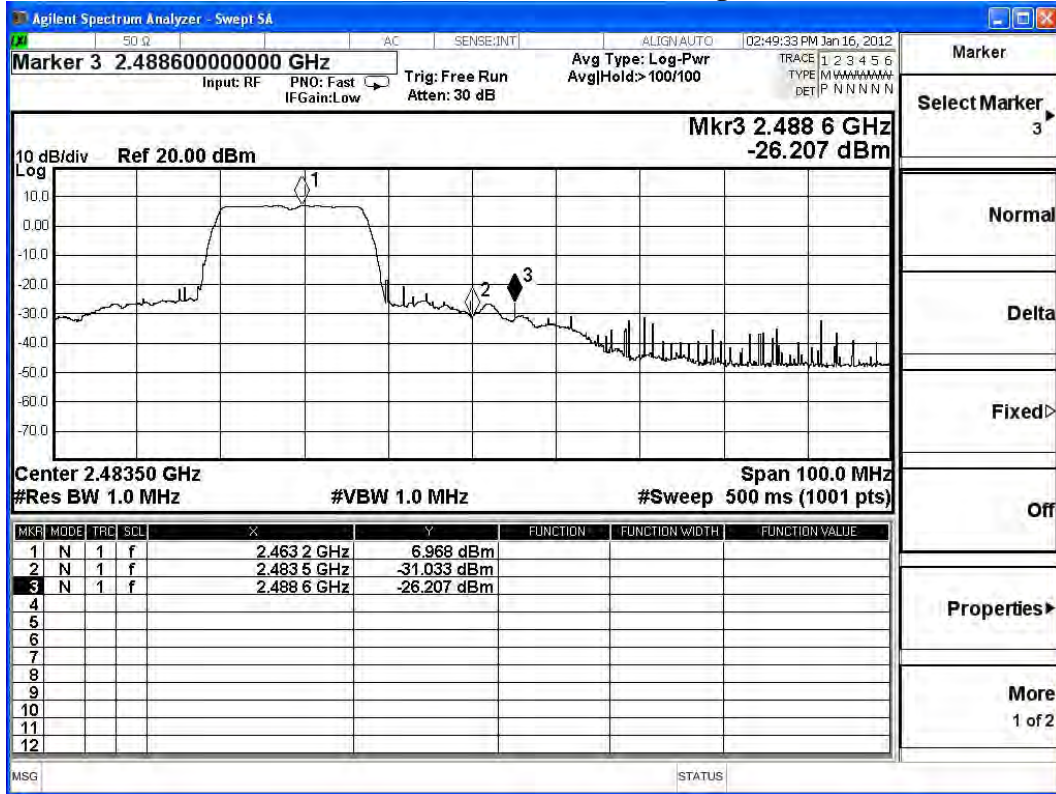
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

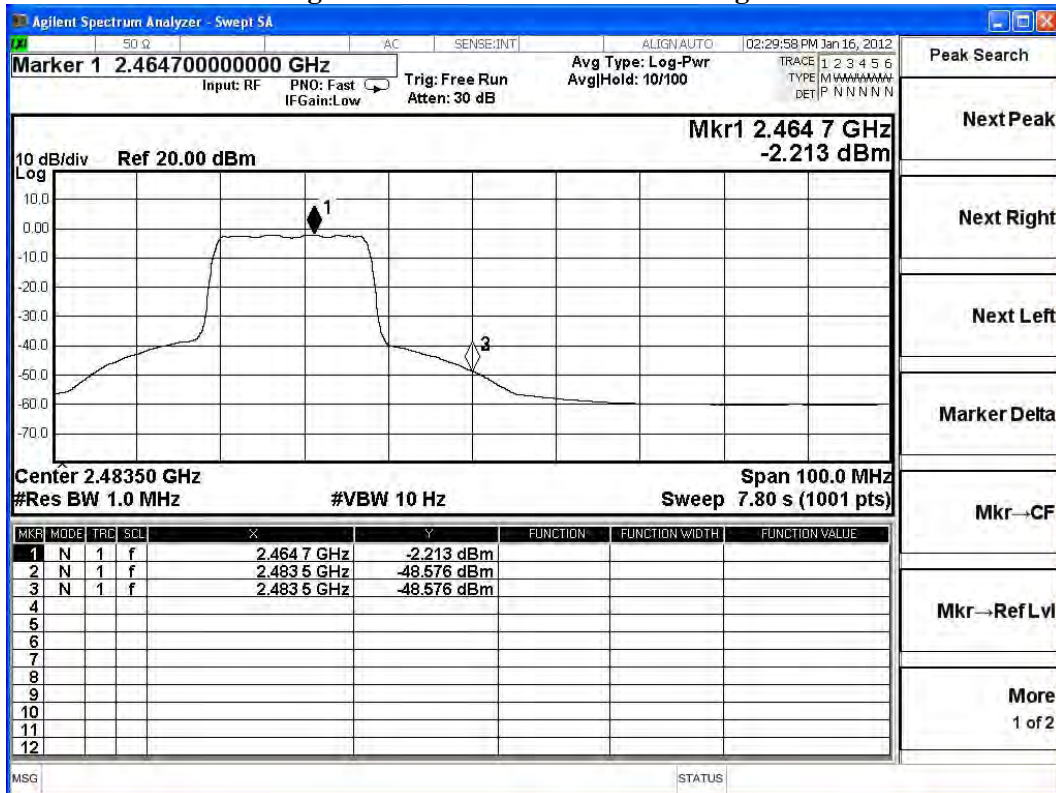
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) -MCU 162MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2422	31.715	65.76	97.475	Peak
Horizontal	2422	31.715	56.41	88.125	Average
Vertical	2422	31.017	64.53	95.547	Peak
Vertical	2422	31.017	55.02	86.037	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2387	97.475	31.722	65.753	74.000	Peak
Horizontal	2390	88.125	36.336	51.789	54.000	Average
Vertical	2387	95.547	31.722	63.825	74.000	Peak
Vertical	2390	86.037	36.336	49.701	54.000	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

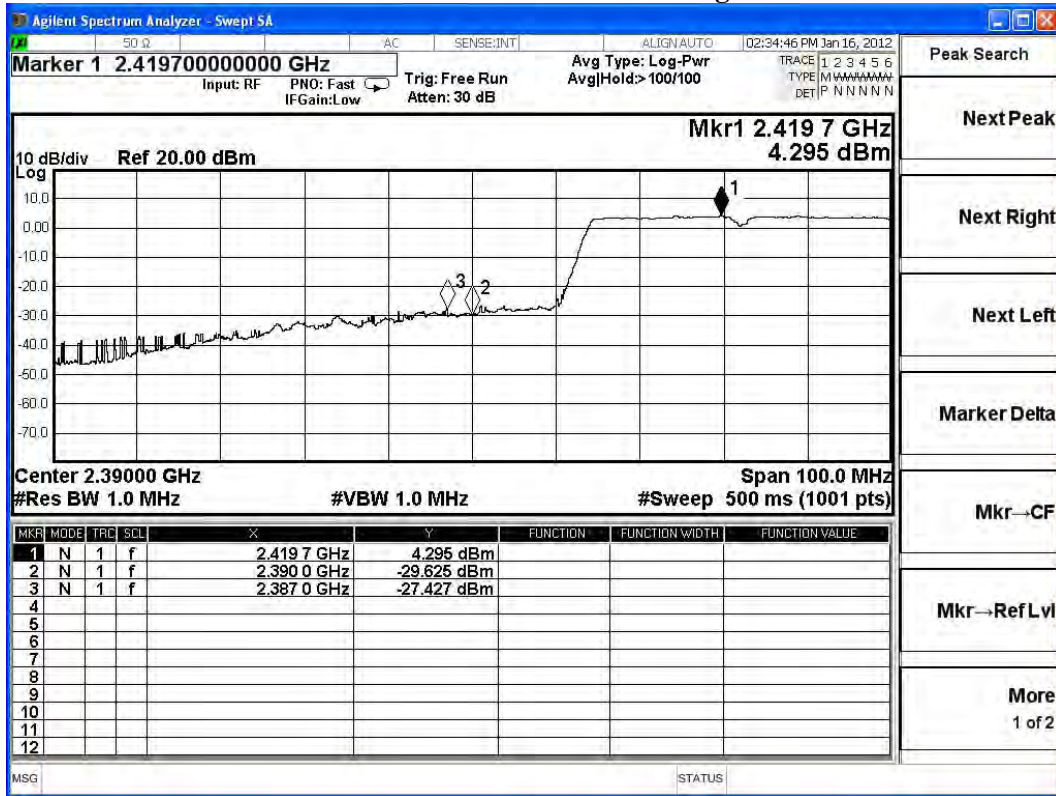
Band Edge field Strength = F -  $\Delta$

F = Fundamental field Strength (Peak or Average)

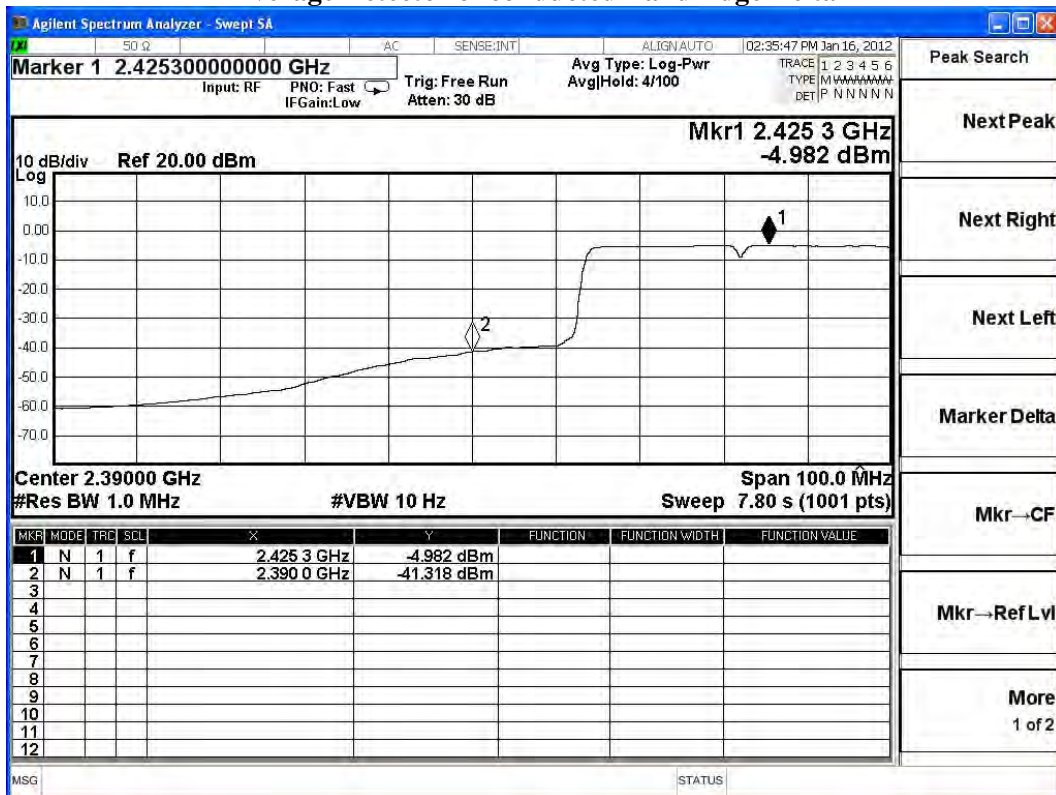
$\Delta$  = Conducted Band Edge Delta (Peak or Average)



### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) -MCU 162MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2452	31.944	63.83	95.774	Peak
Horizontal	2452	31.944	54.32	86.264	Average
Vertical	2452	31.222	63.45	94.672	Peak
Vertical	2452	31.222	53.97	85.192	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2490.7	95.774	29.35	66.424	74.000	Peak
Horizontal	2483.5	86.264	40.173	46.091	54.000	Average
Vertical	2490.7	94.672	29.35	65.322	74.000	Peak
Vertical	2483.5	85.192	40.173	45.019	54.000	Average

Note:

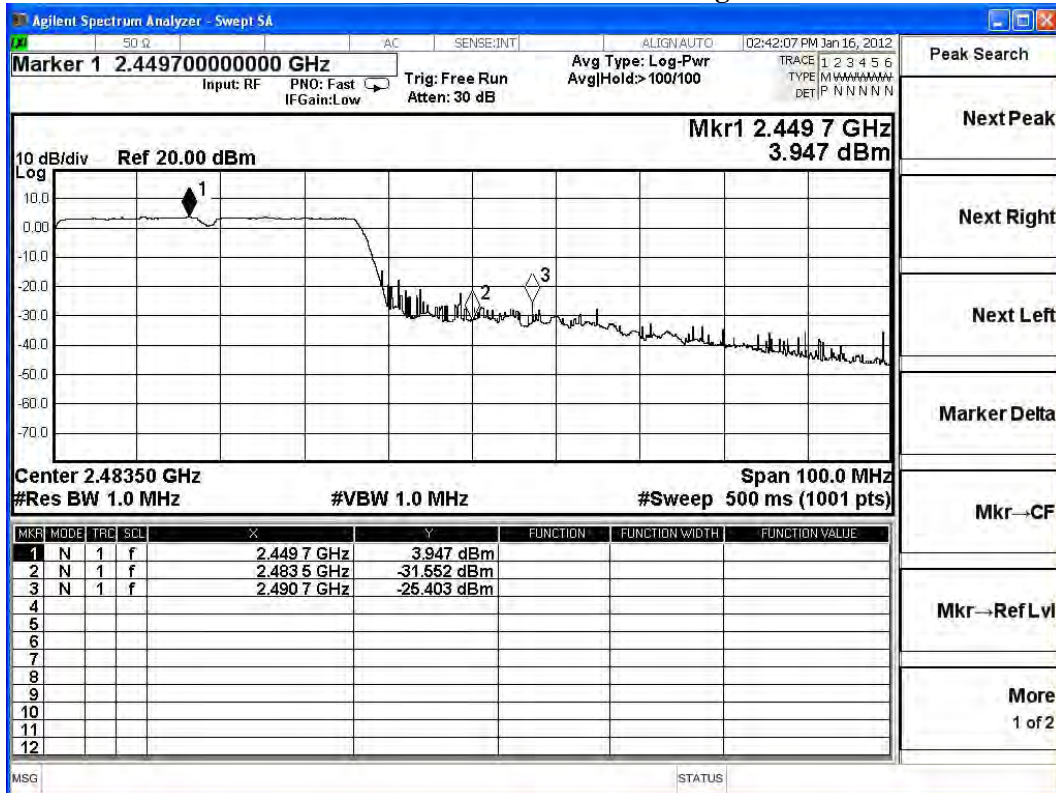
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

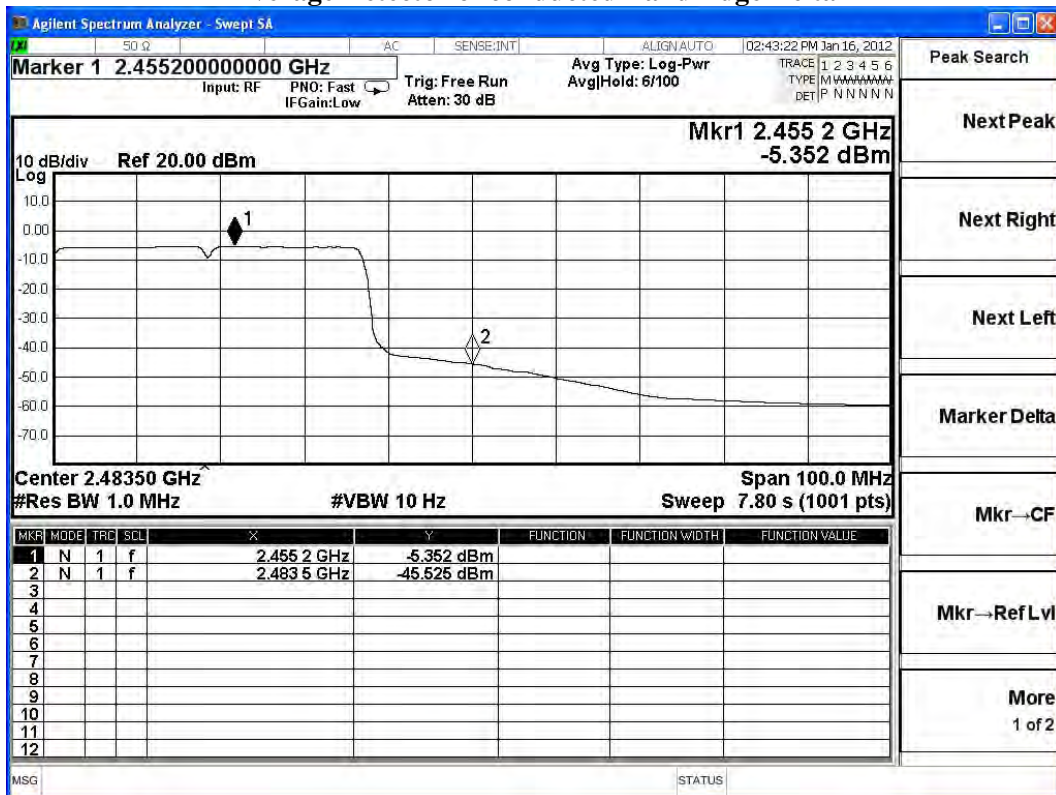
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	31.639	71.15	102.788	Peak
Horizontal	2412	31.639	67.39	99.028	Average
Vertical	2412	30.95	66.82	97.769	Peak
Vertical	2412	30.95	62.66	93.609	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2389.8	102.788	36.597	66.191	74.000	Peak
Horizontal	2389.3	99.028	55.924	43.104	54.000	Average
Vertical	2389.8	97.769	36.597	61.172	74.000	Peak
Vertical	2389.3	93.609	55.924	37.685	54.000	Average

Note:

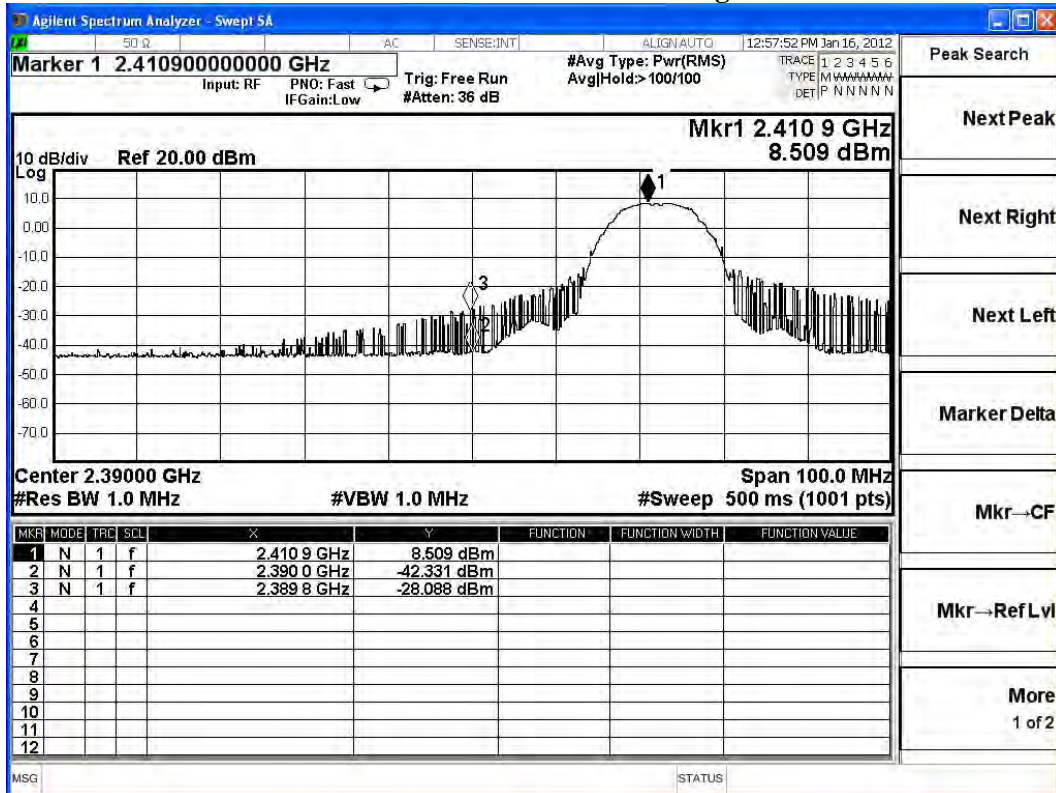
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

$$\text{Band Edge field Strength} = F - \Delta$$

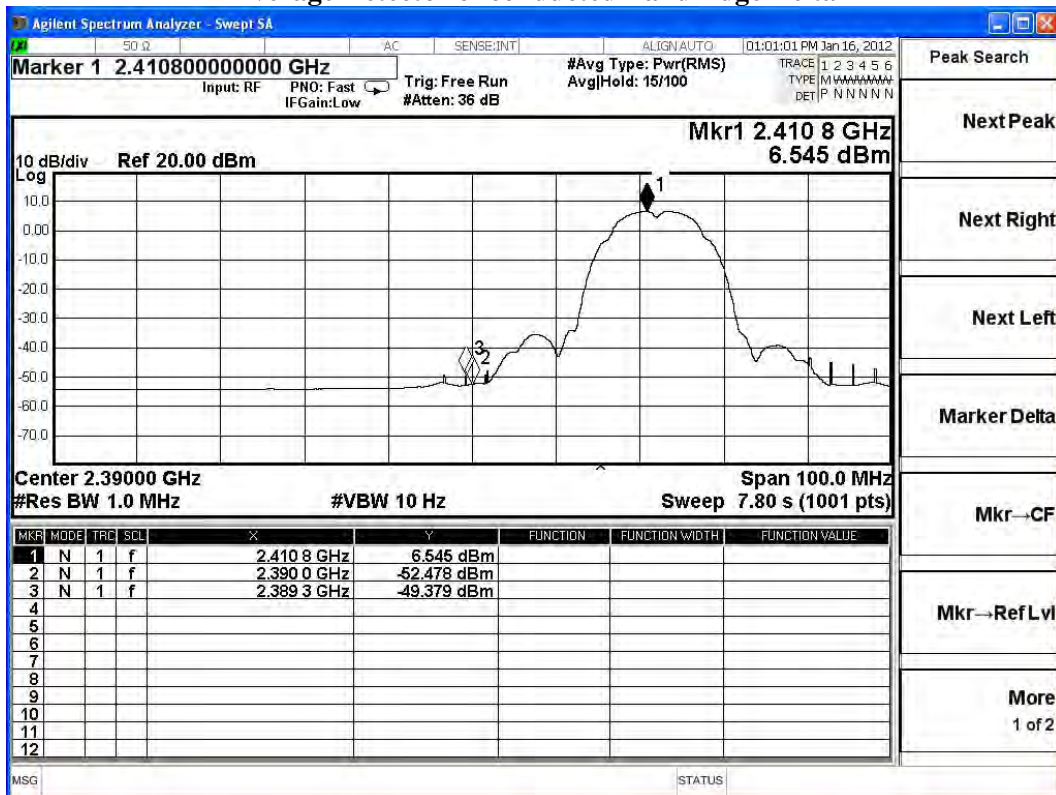
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	69.1	101.119	Peak
Horizontal	2462	32.019	65.21	97.229	Average
Vertical	2462	31.29	65.51	96.8	Peak
Vertical	2462	31.29	61.92	93.21	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2485.1	101.119	31.819	69.3	74.000	Peak
Horizontal	2488.1	97.229	63.949	33.28	54.000	Average
Vertical	2485.1	96.8	31.819	64.981	74.000	Peak
Vertical	2488.1	93.21	63.949	29.261	54.000	Average

Note:

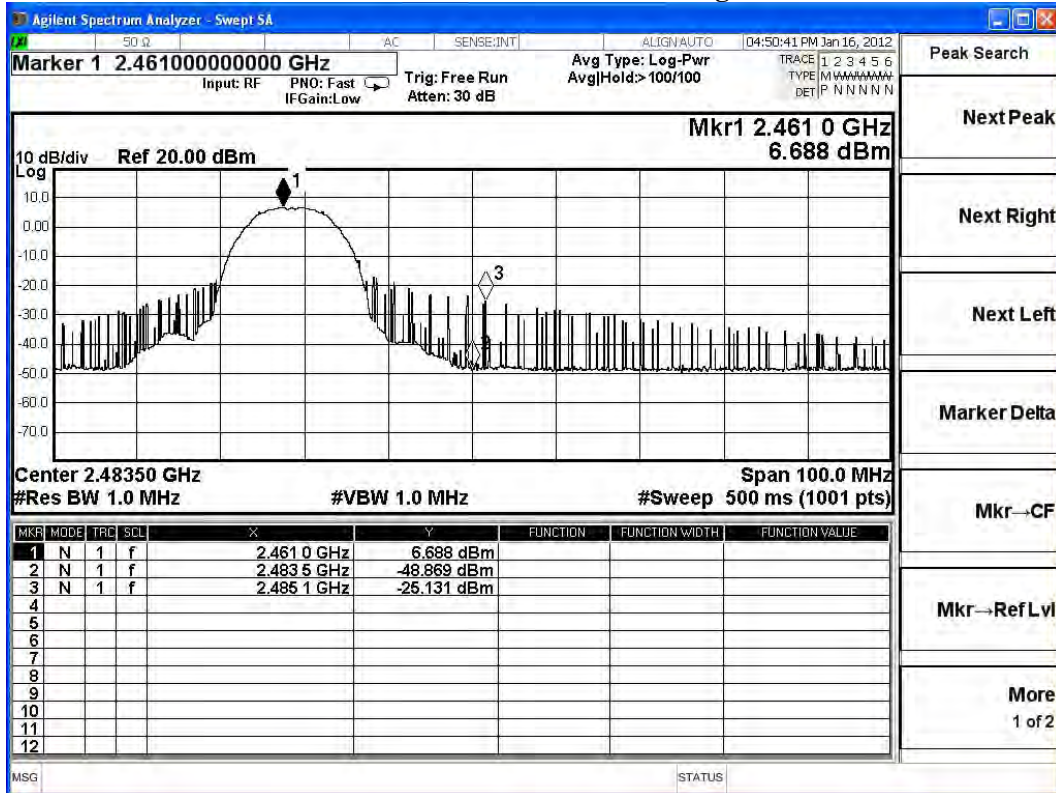
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

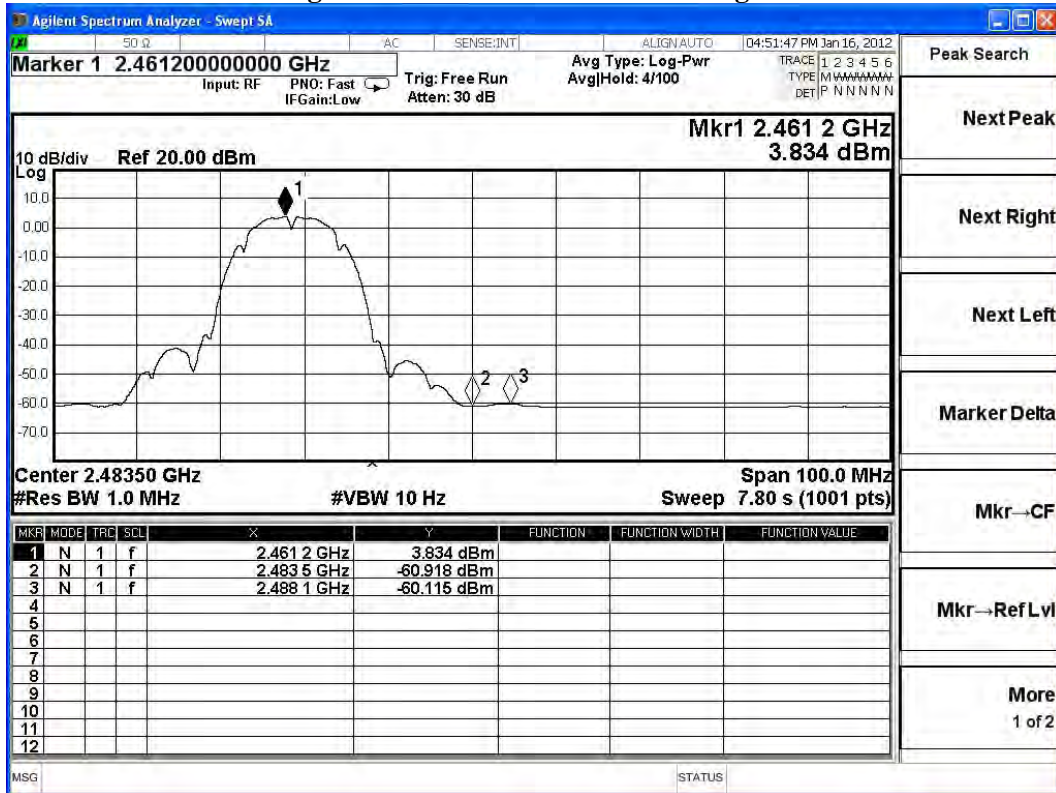
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	31.639	69.75	101.388	Peak
Horizontal	2412	31.639	60.56	92.198	Average
Vertical	2412	30.95	66.13	97.079	Peak
Vertical	2412	30.95	57.19	88.139	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2388.1	101.388	32.376	69.012	74.000	Peak
Horizontal	2390	92.198	43.257	48.941	54.000	Average
Vertical	2388.1	97.079	32.376	64.703	74.000	Peak
Vertical	2390	88.139	43.257	44.882	54.000	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

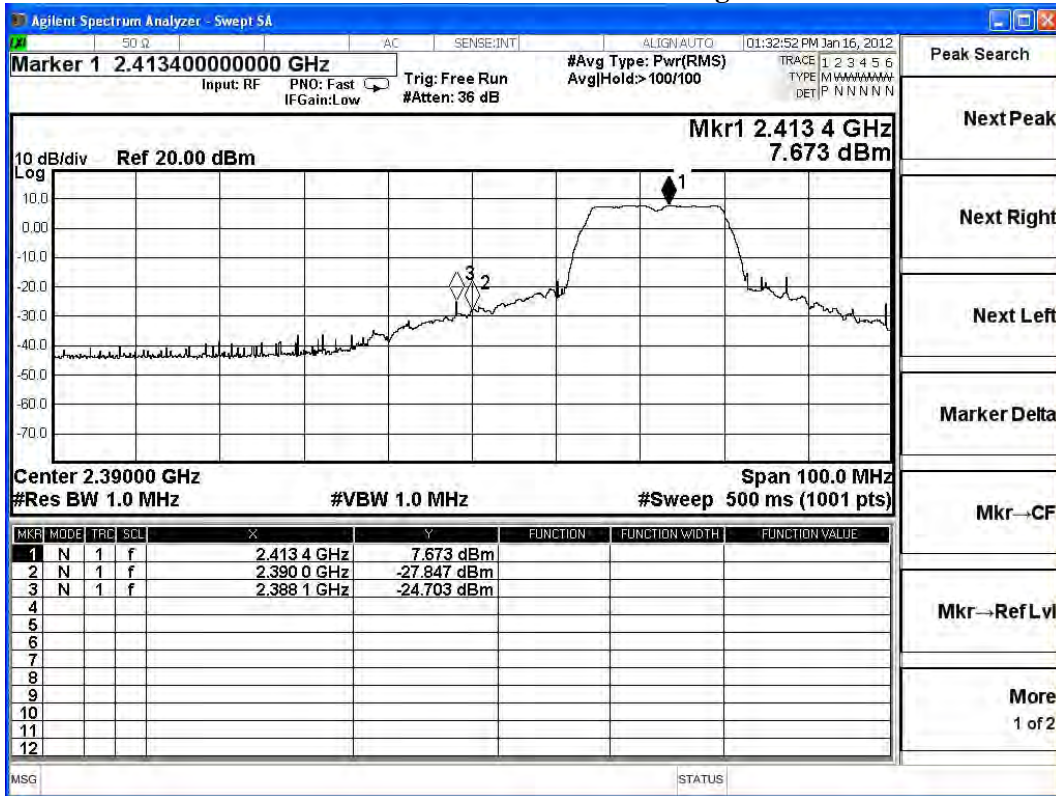
Band Edge field Strength = F -  $\Delta$

F = Fundamental field Strength (Peak or Average)

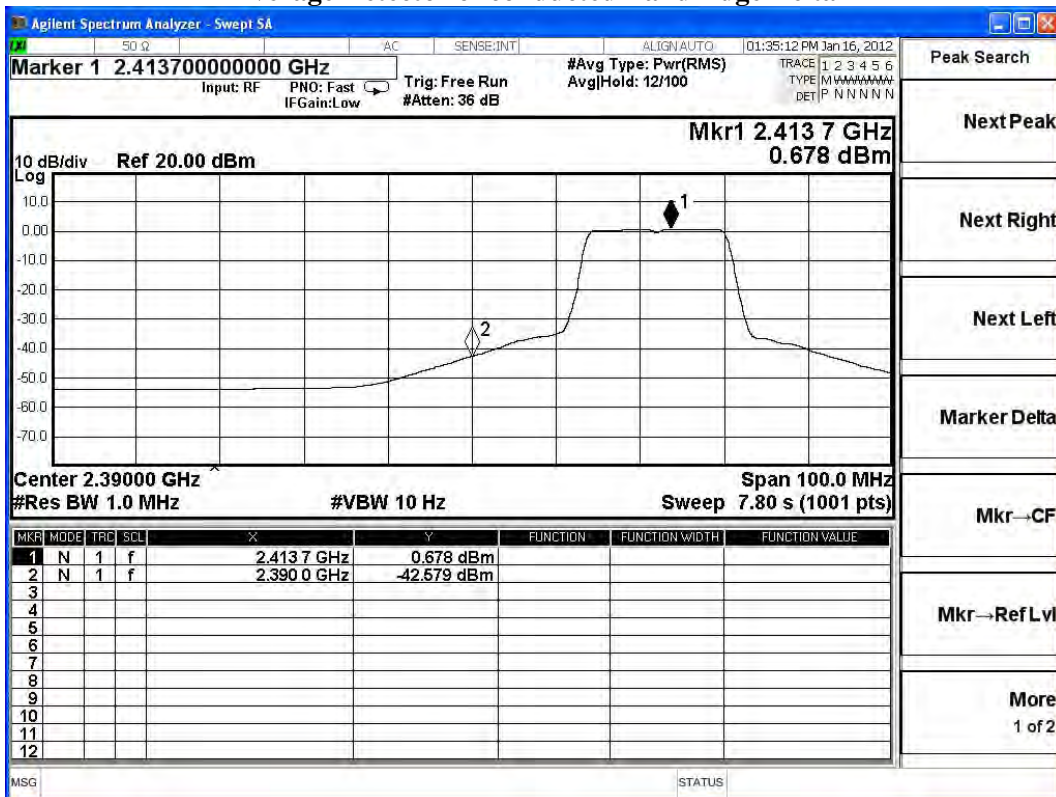
$\Delta$  = Conducted Band Edge Delta (Peak or Average)



### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	69.07	101.089	Peak
Horizontal	2462	32.019	59.54	91.559	Average
Vertical	2462	31.29	65.83	97.12	Peak
Vertical	2462	31.29	56.56	87.85	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2494	101.089	33.737	67.352	74.000	Peak
Horizontal	2483.5	91.559	50.193	41.366	54.000	Average
Vertical	2494	97.12	33.737	63.383	74.000	Peak
Vertical	2483.5	87.85	50.193	37.657	54.000	Average

Note:

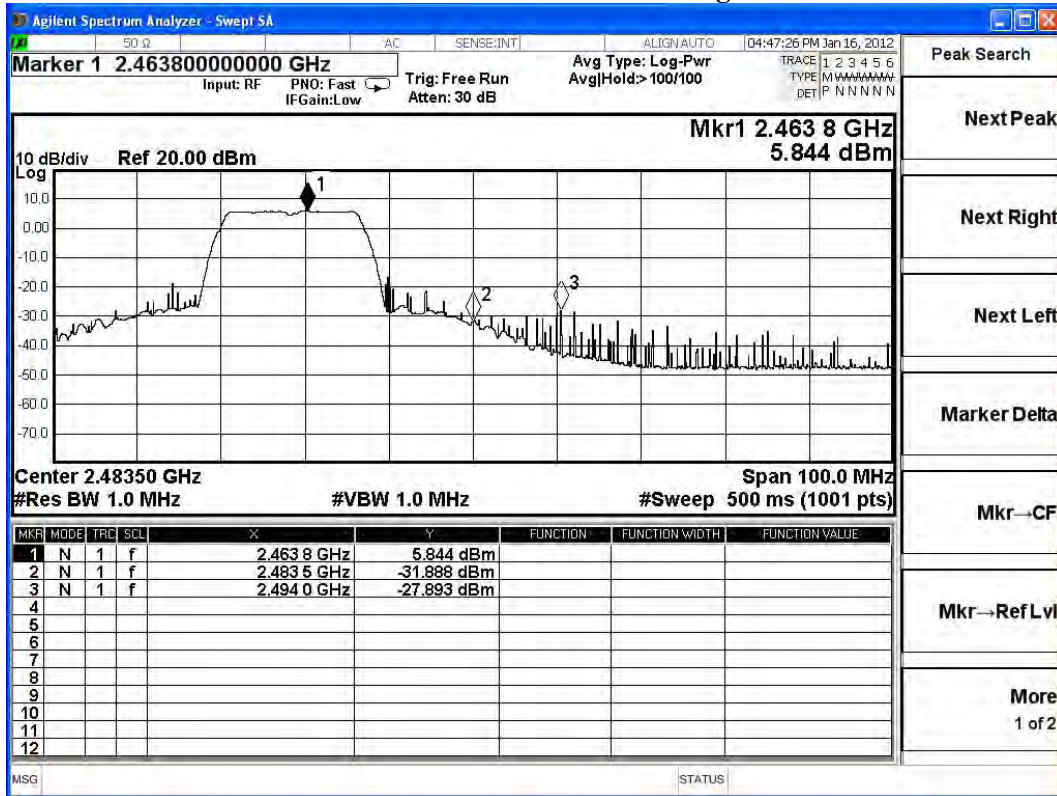
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

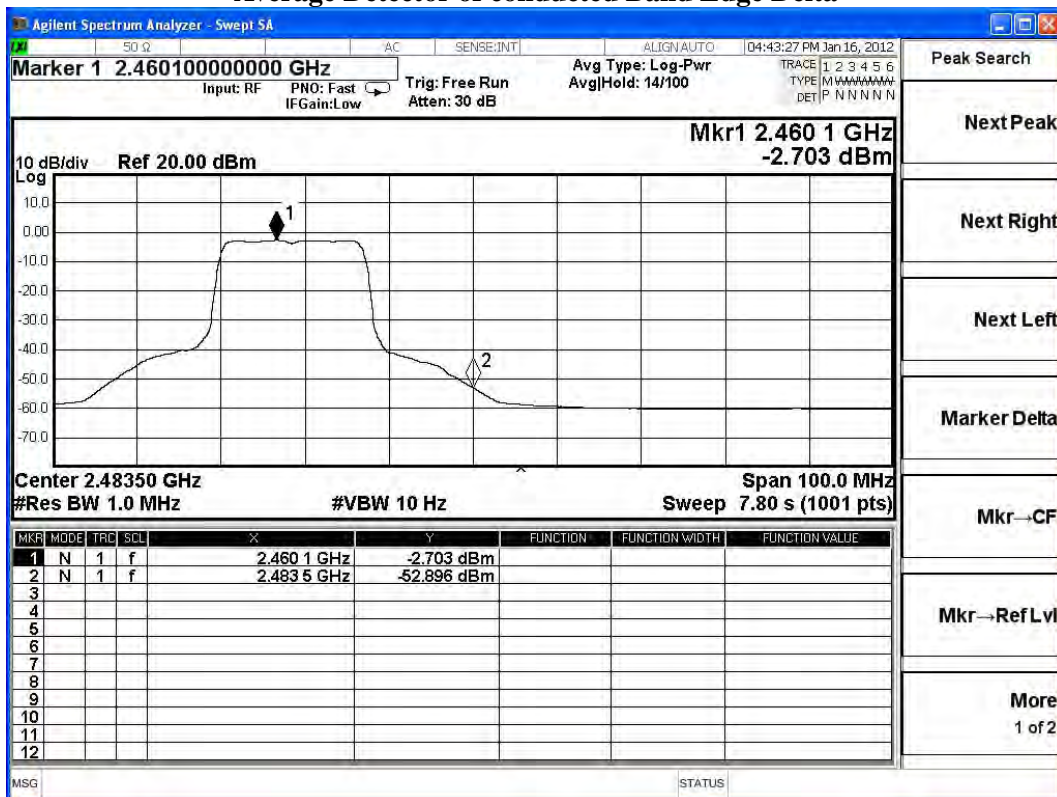
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	31.639	69.95	101.588	Peak
Horizontal	2412	31.639	60.35	91.988	Average
Vertical	2412	30.95	65.55	96.499	Peak
Vertical	2412	30.95	55.36	86.309	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2389.6	101.588	34.1	67.488	74.000	Peak
Horizontal	2390	91.988	43.566	48.422	54.000	Average
Vertical	2389.6	96.499	34.1	62.399	74.000	Peak
Vertical	2390	86.309	43.566	42.743	54.000	Average

Note:

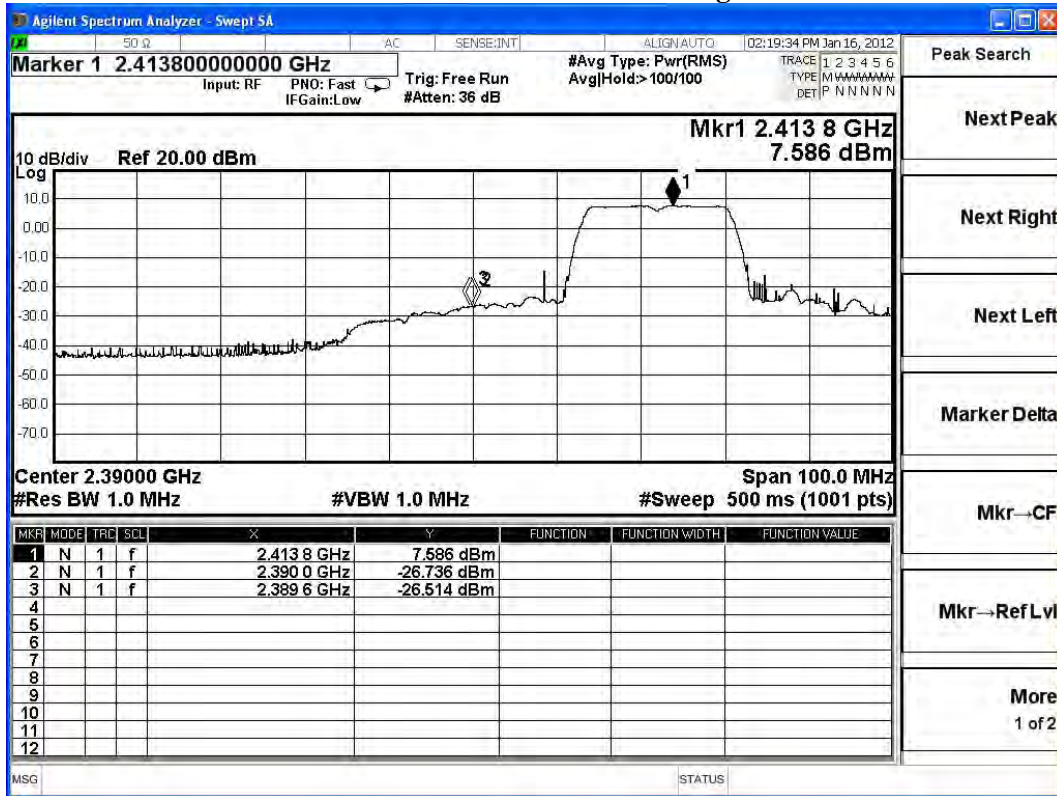
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

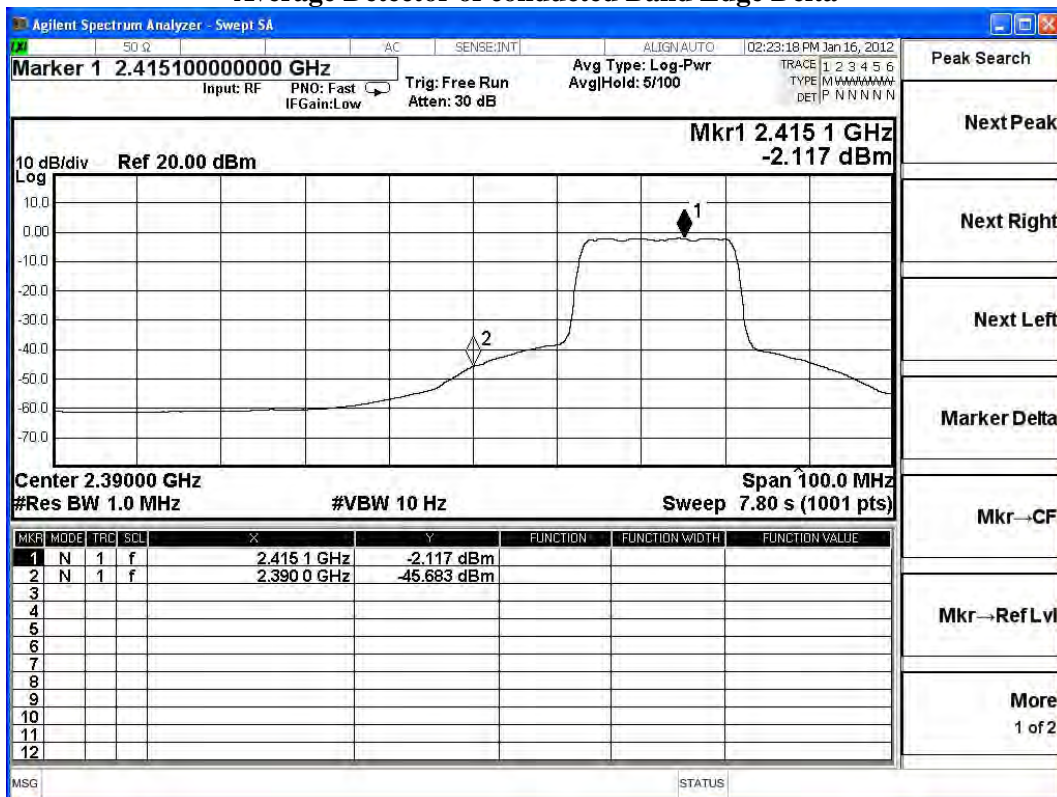
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	69.03	101.049	Peak
Horizontal	2462	32.019	58.77	90.789	Average
Vertical	2462	31.29	65.93	97.22	Peak
Vertical	2462	31.29	56.11	87.4	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2488.6	101.049	33.175	67.874	74.000	Peak
Horizontal	2483.5	90.789	46.363	44.426	54.000	Average
Vertical	2488.6	97.22	33.175	64.045	74.000	Peak
Vertical	2483.5	87.4	46.363	41.037	54.000	Average

Note:

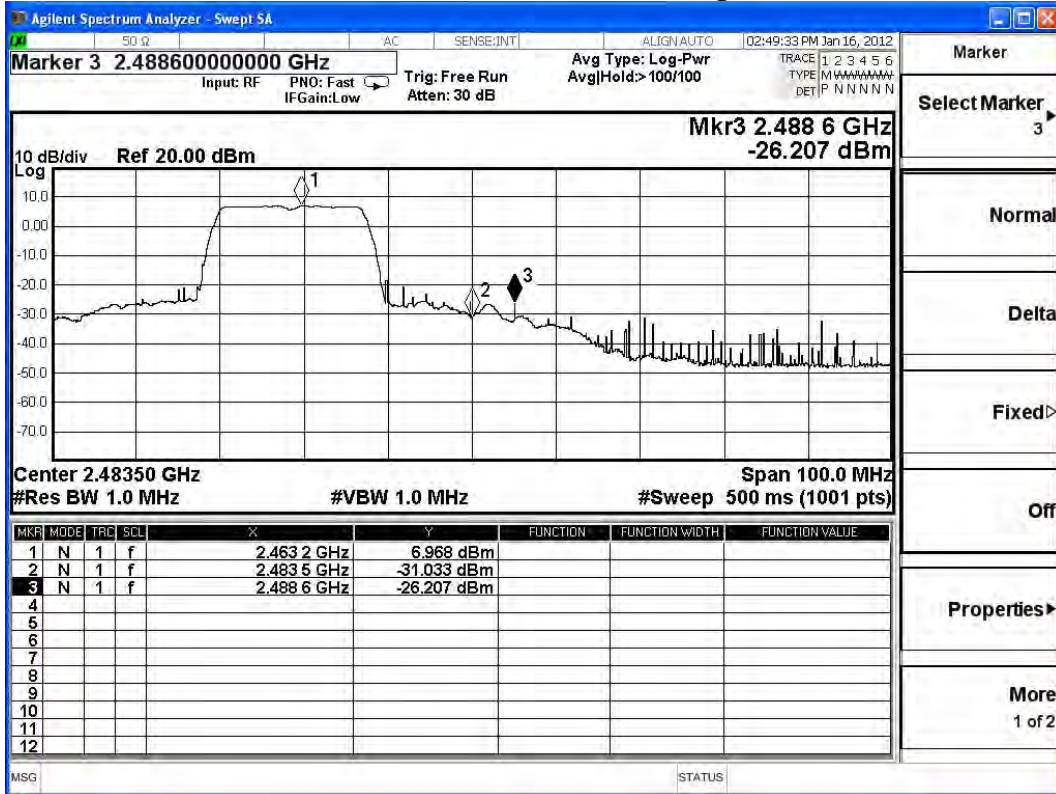
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

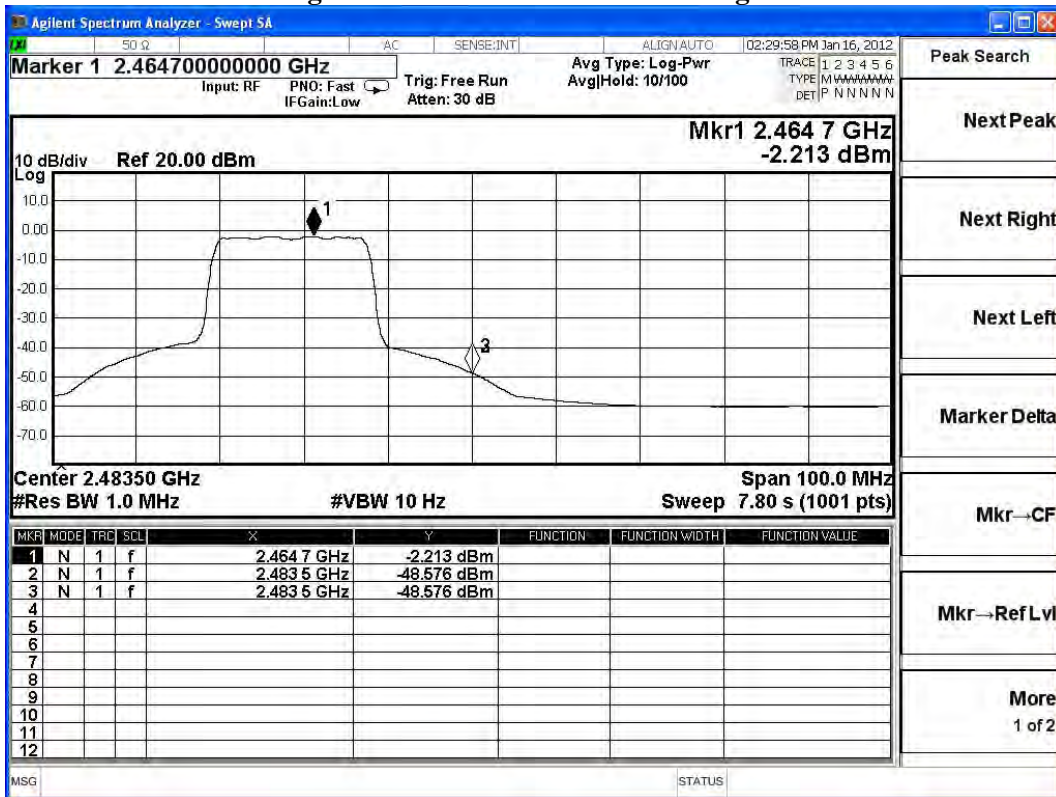
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2422	31.715	66.03	97.745	Peak
Horizontal	2422	31.715	56.35	88.065	Average
Vertical	2422	31.017	65.56	96.577	Peak
Vertical	2422	31.017	56.22	87.237	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2387	97.745	31.722	66.023	74.000	Peak
Horizontal	2390	88.065	36.336	51.729	54.000	Average
Vertical	2387	96.577	31.722	64.855	74.000	Peak
Vertical	2390	87.237	36.336	50.901	54.000	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

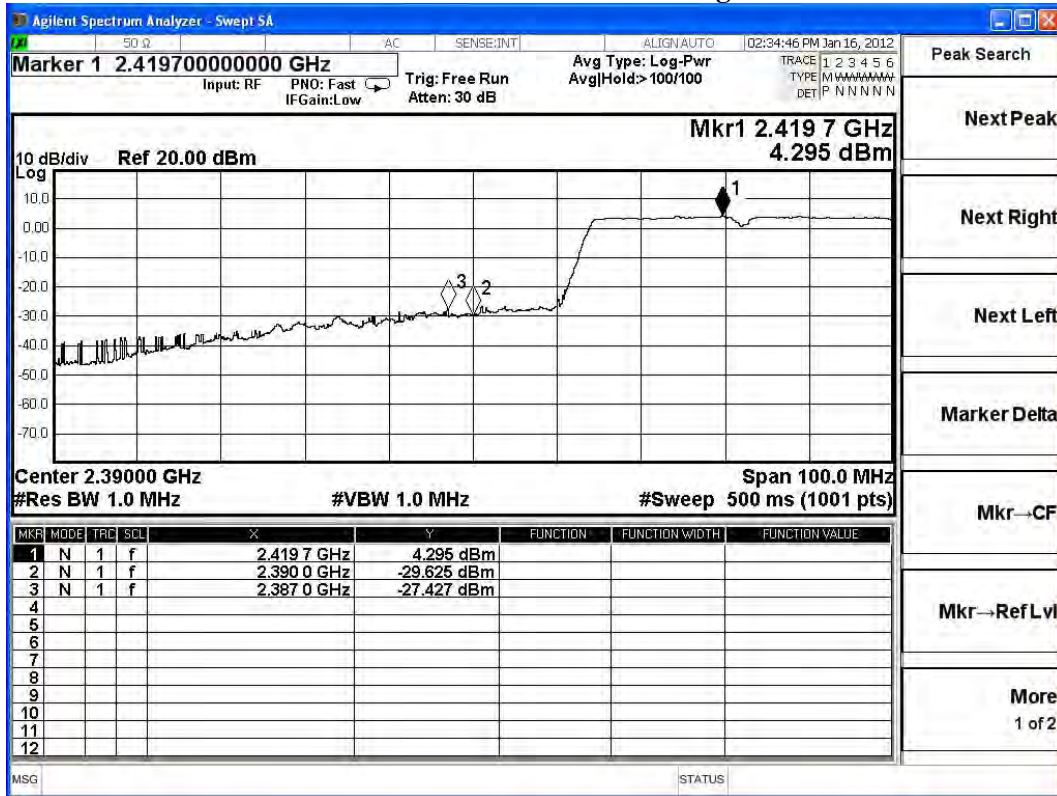
Band Edge field Strength = F -  $\Delta$

F = Fundamental field Strength (Peak or Average)

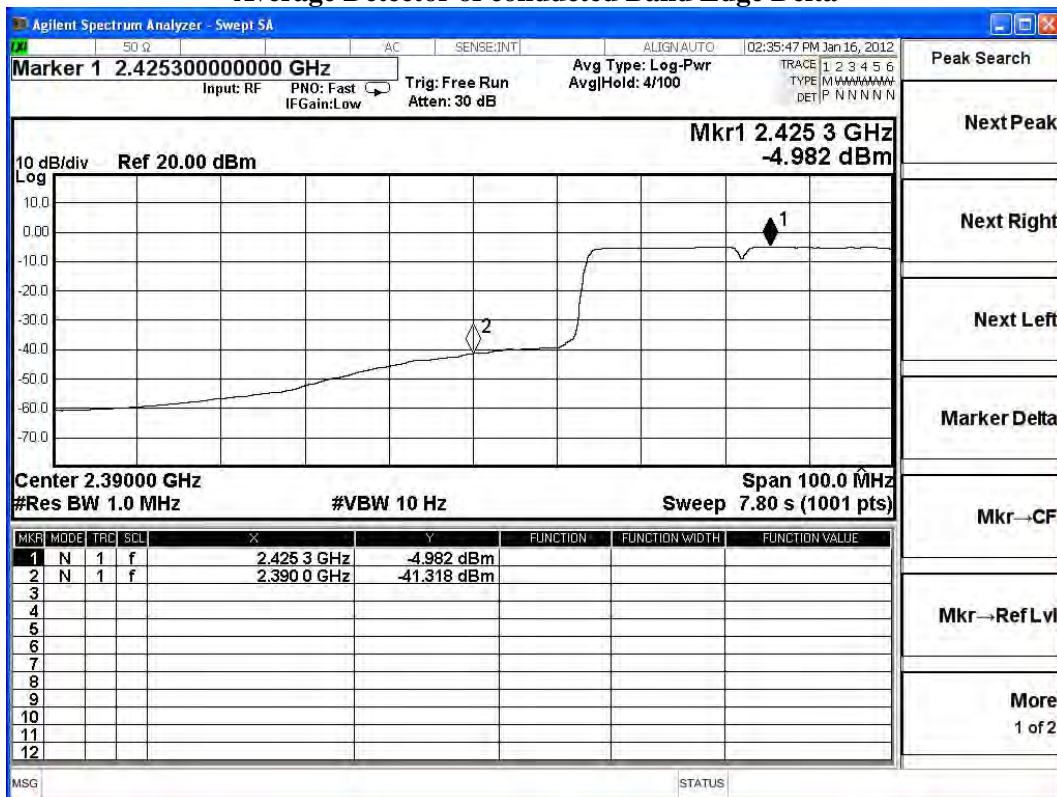
$\Delta$  = Conducted Band Edge Delta (Peak or Average)



### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : PR1 Receiver  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) -MCU 166MHz

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2452	31.944	66.52	98.464	Peak
Horizontal	2452	31.944	56.94	88.884	Average
Vertical	2452	31.944	64.3	96.244	Peak
Vertical	2452	31.944	54.72	86.664	Average

Note: 1: Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

**Band Edge Test Data**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2490.7	98.464	29.35	69.114	74.000	Peak
Horizontal	2483.5	88.884	40.173	48.711	54.000	Average
Vertical	2490.7	96.244	29.35	66.894	74.000	Peak
Vertical	2483.5	86.664	40.173	46.491	54.000	Average

Note:

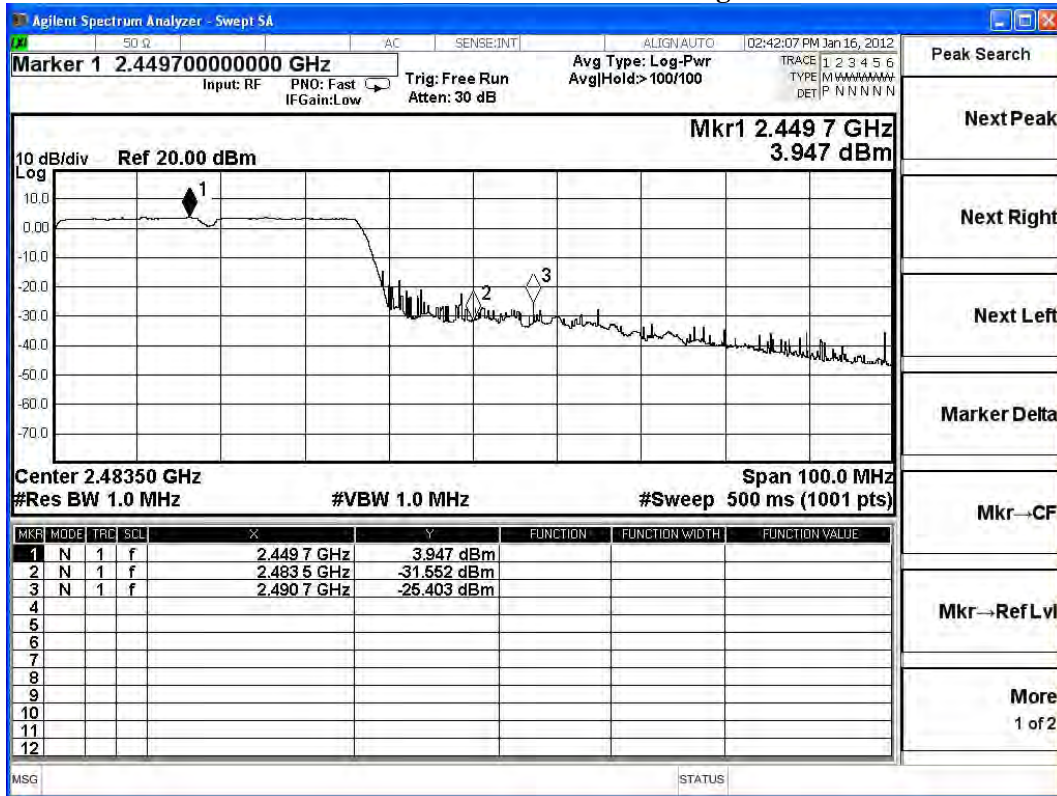
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

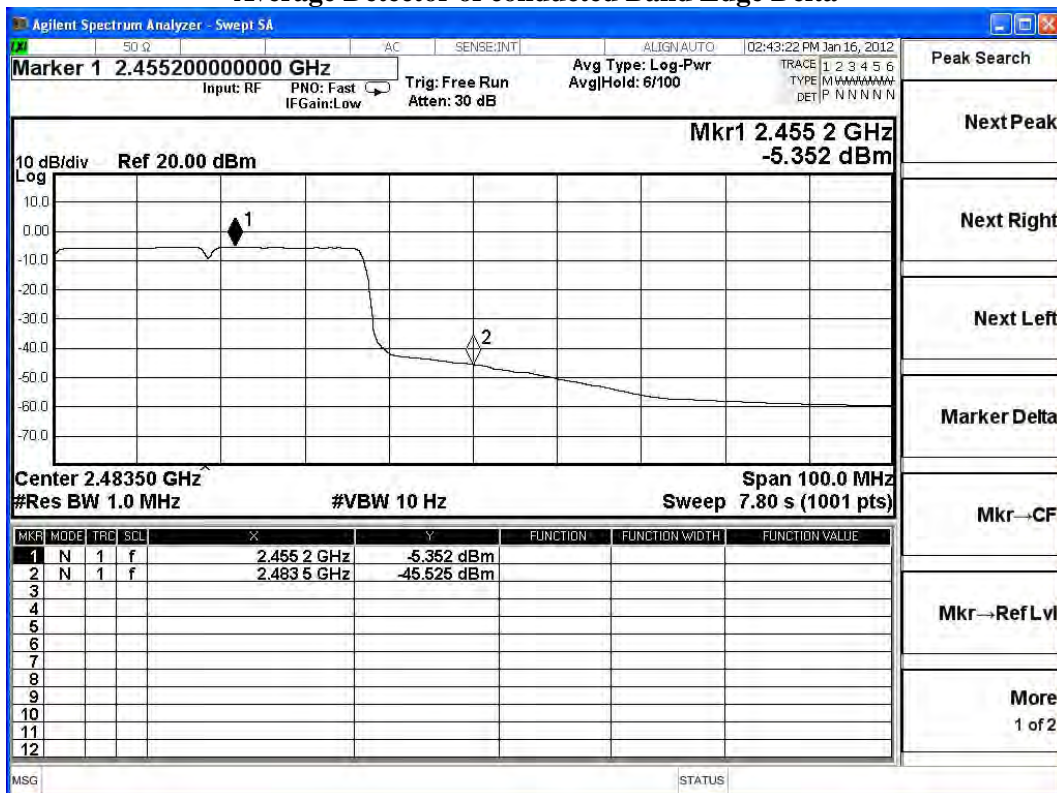
F = Fundamental field Strength (Peak or Average)

$\Delta$  = Conducted Band Edge Delta (Peak or Average)

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



**7. Occupied Bandwidth**

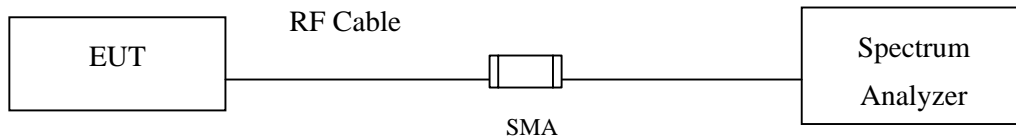
**7.1. Test Equipment**

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

**7.2. Test Setup**



**7.3. Limits**

The minimum bandwidth shall be at least 500 kHz.

**7.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5% of the emission bandwidth, VBW ≥ 3\*RBW

**7.5. Uncertainty**

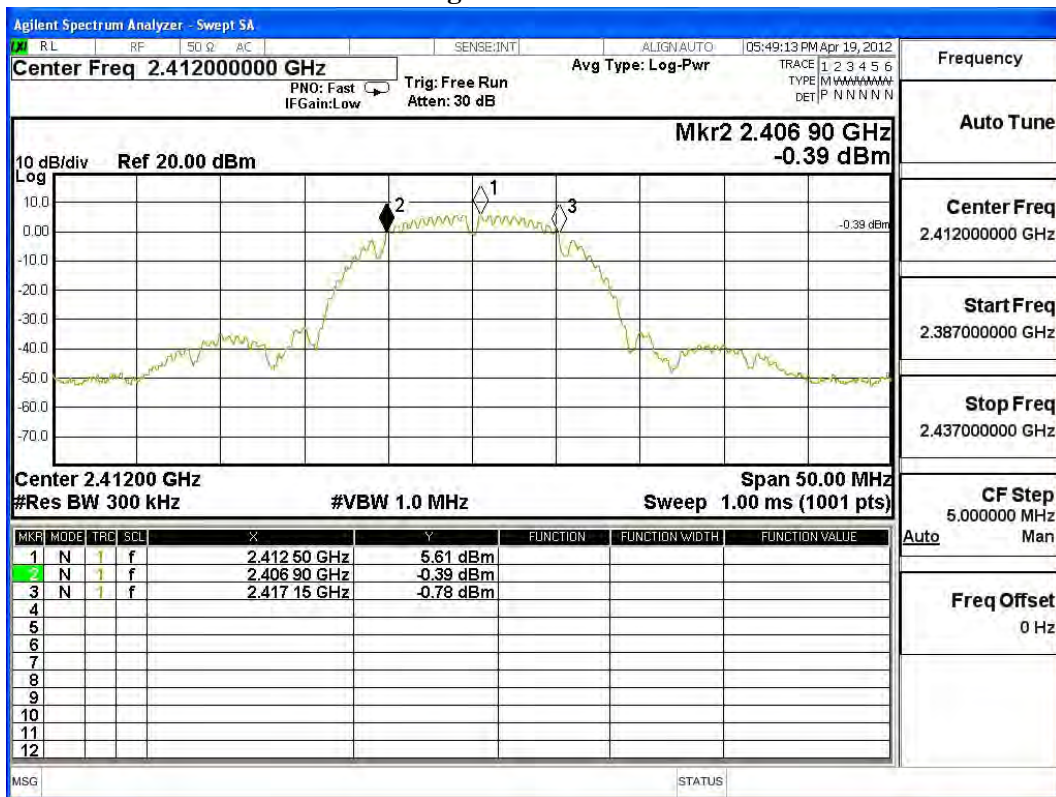
± 150Hz

### 7.6. Test Result of Occupied Bandwidth

Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	10250	>500	Pass

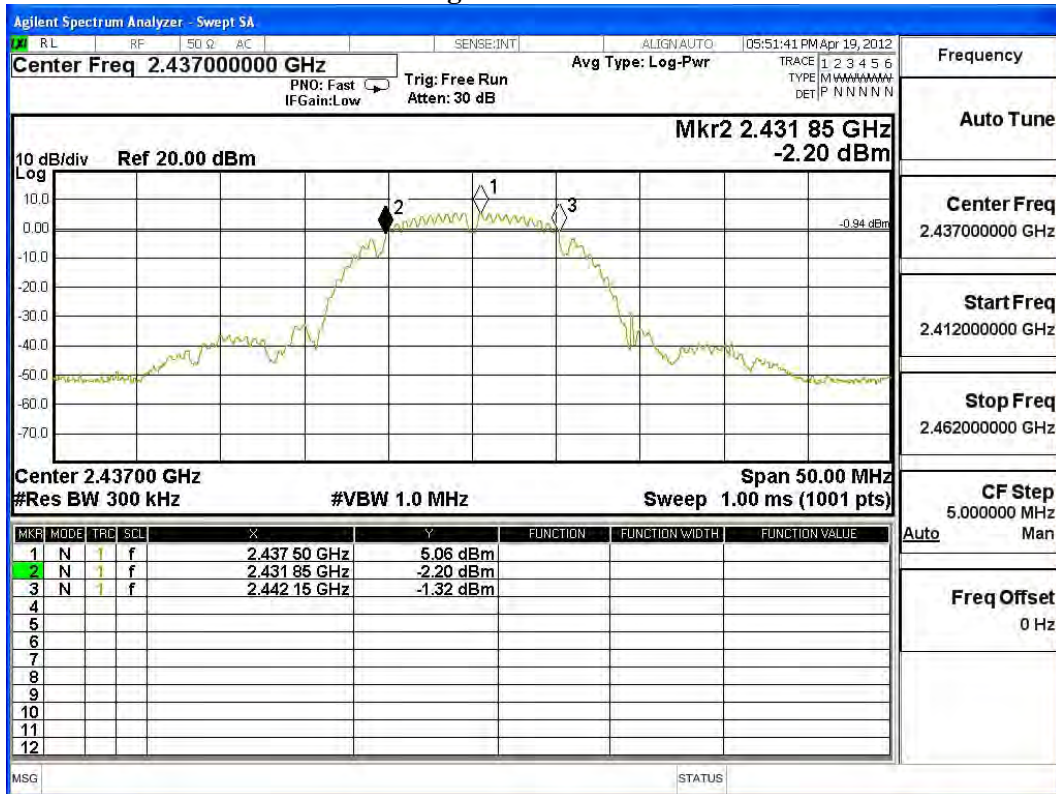
Figure Channel 1:



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	10300	>500	Pass

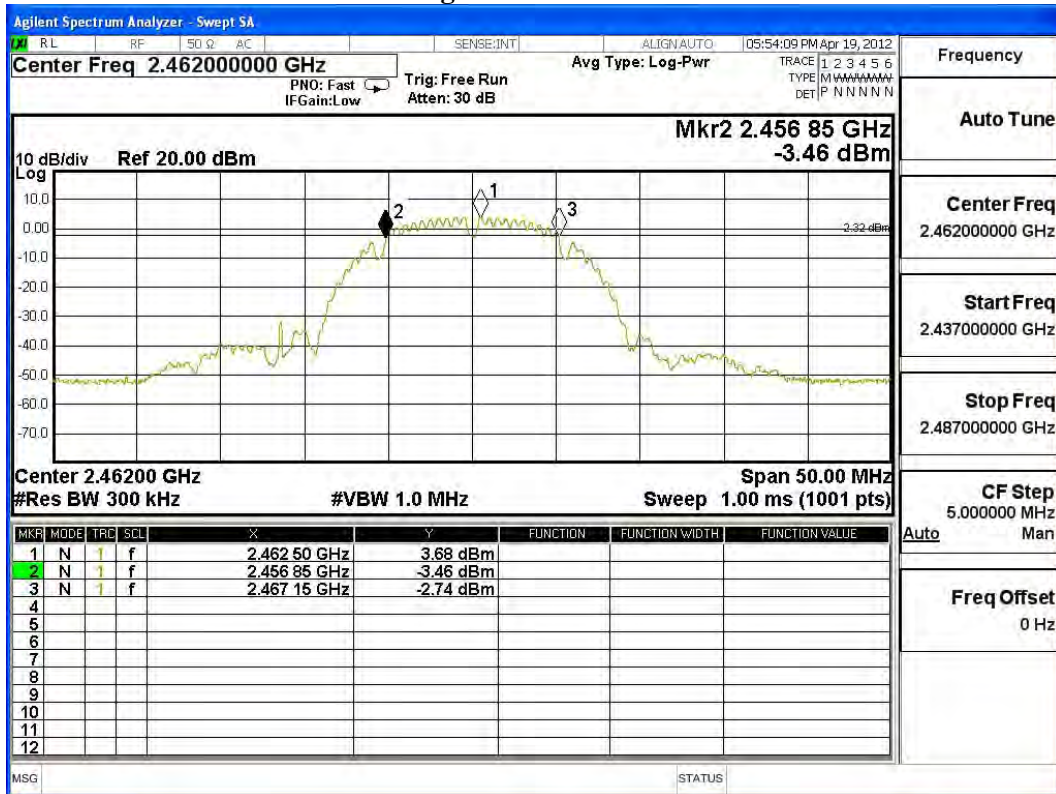
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	10300	>500	Pass

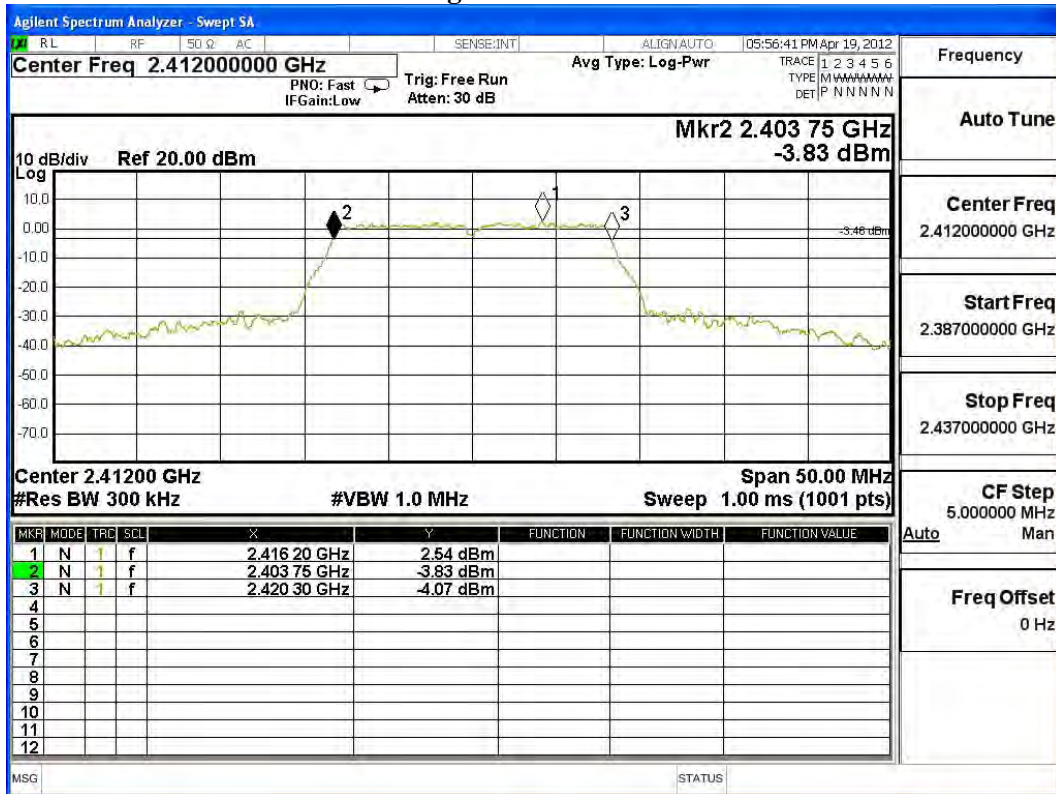
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16550	>500	Pass

**Figure Channel 1:**

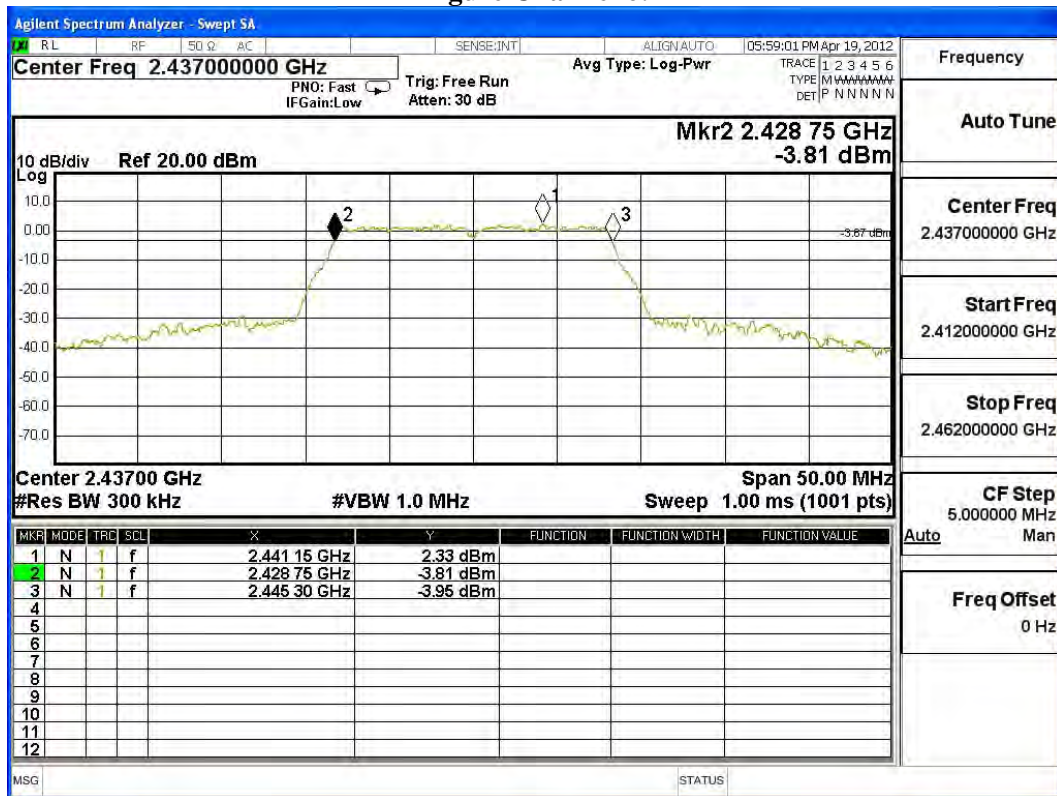




Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	16550	>500	Pass

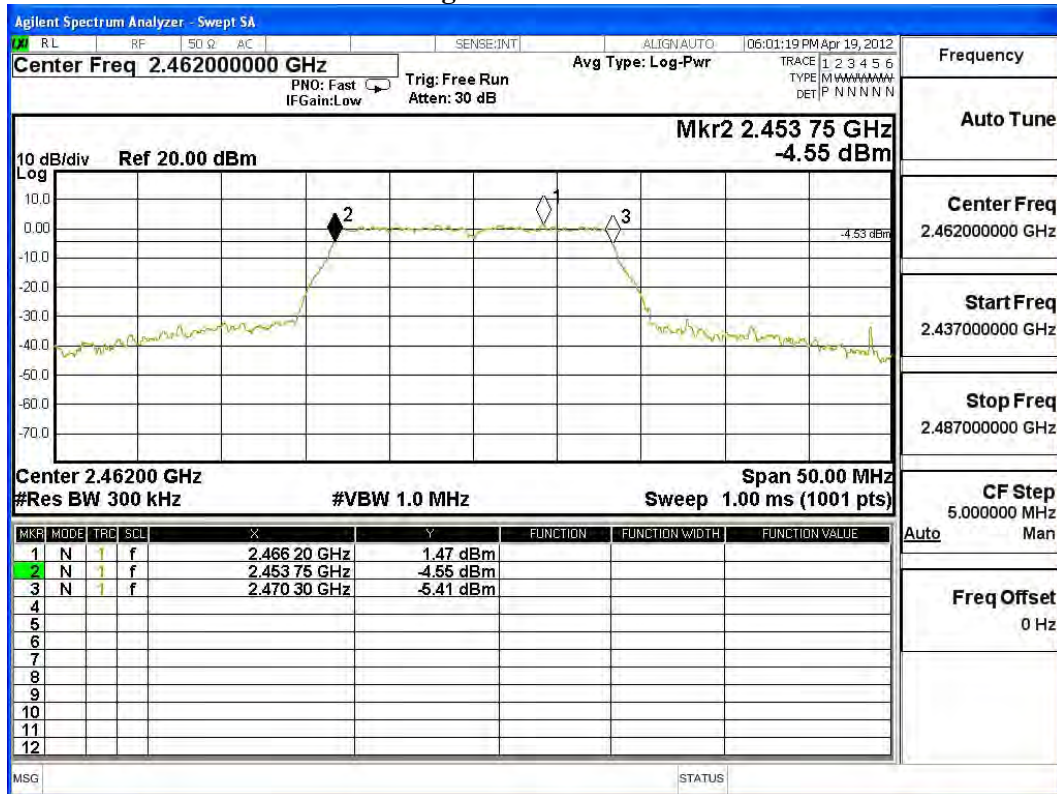
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	16550	>500	Pass

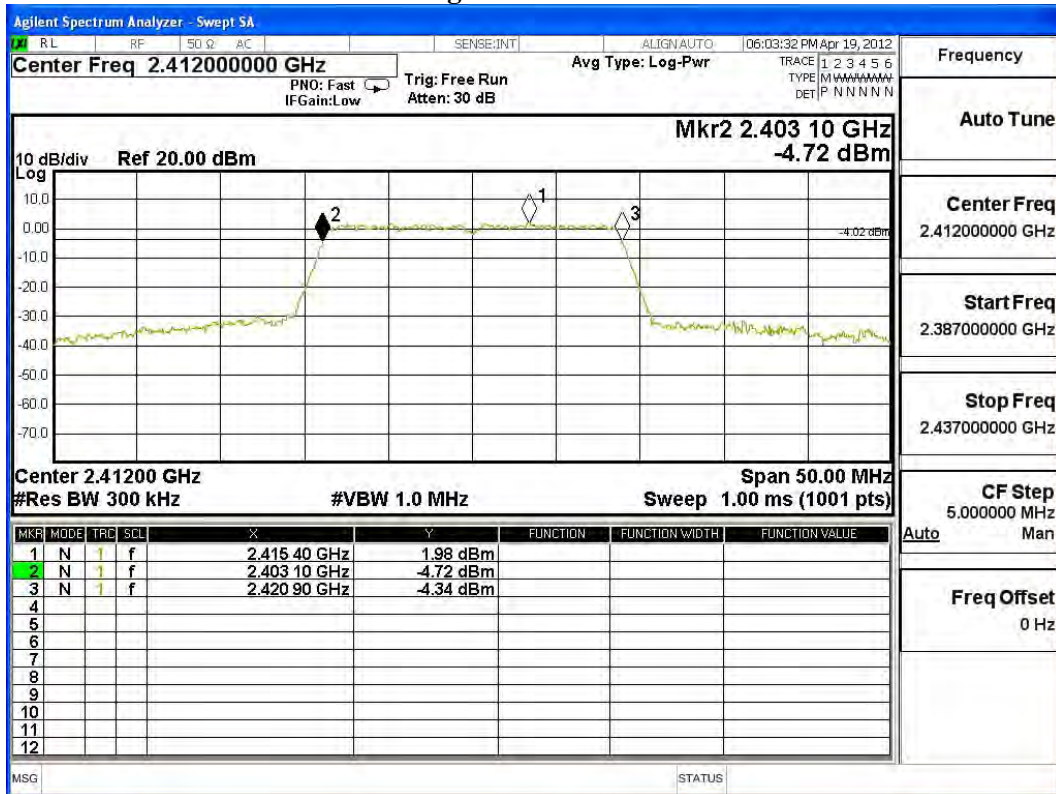
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2412MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	17800	>500	Pass

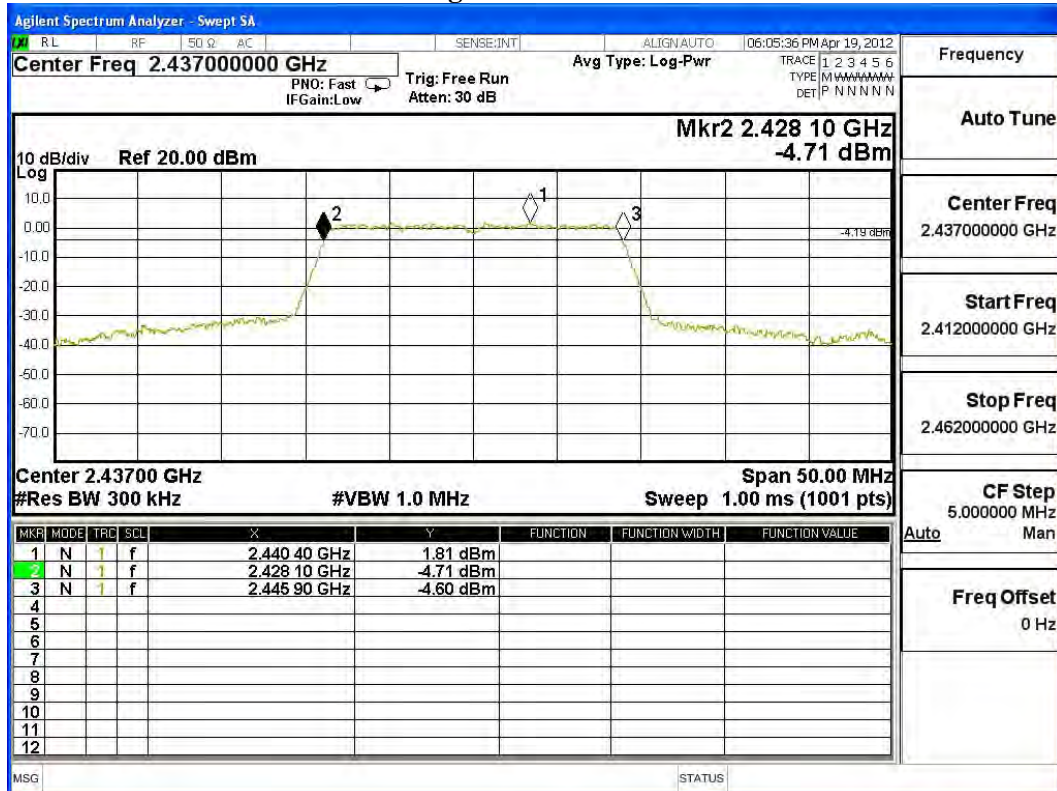
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2437MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17800	>500	Pass

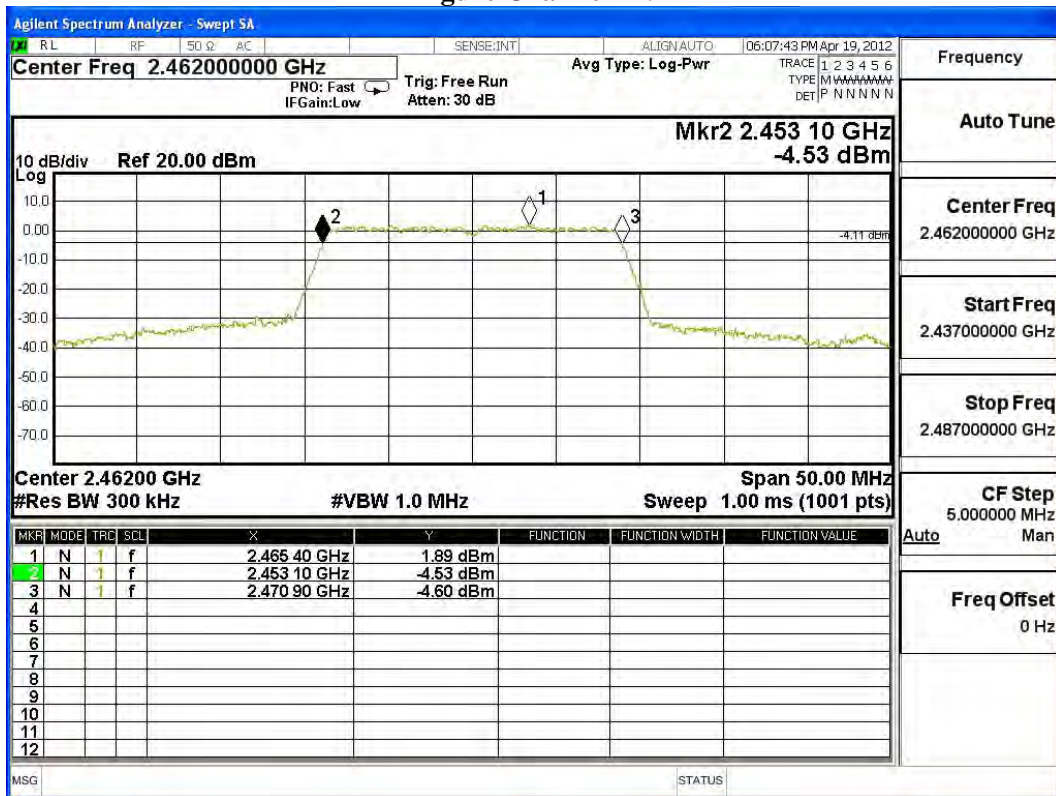
Figure Channel 6:



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2462MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17800	>500	Pass

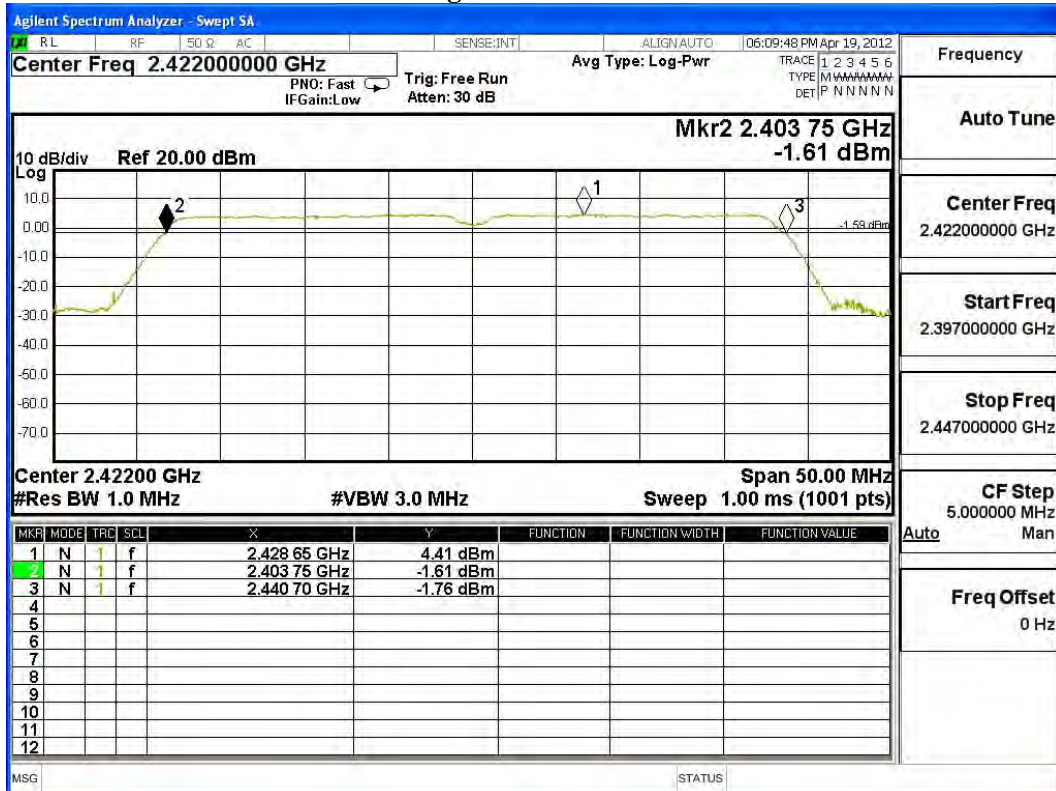
Figure Channel 11:



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2422MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2422.00	36950	>500	Pass

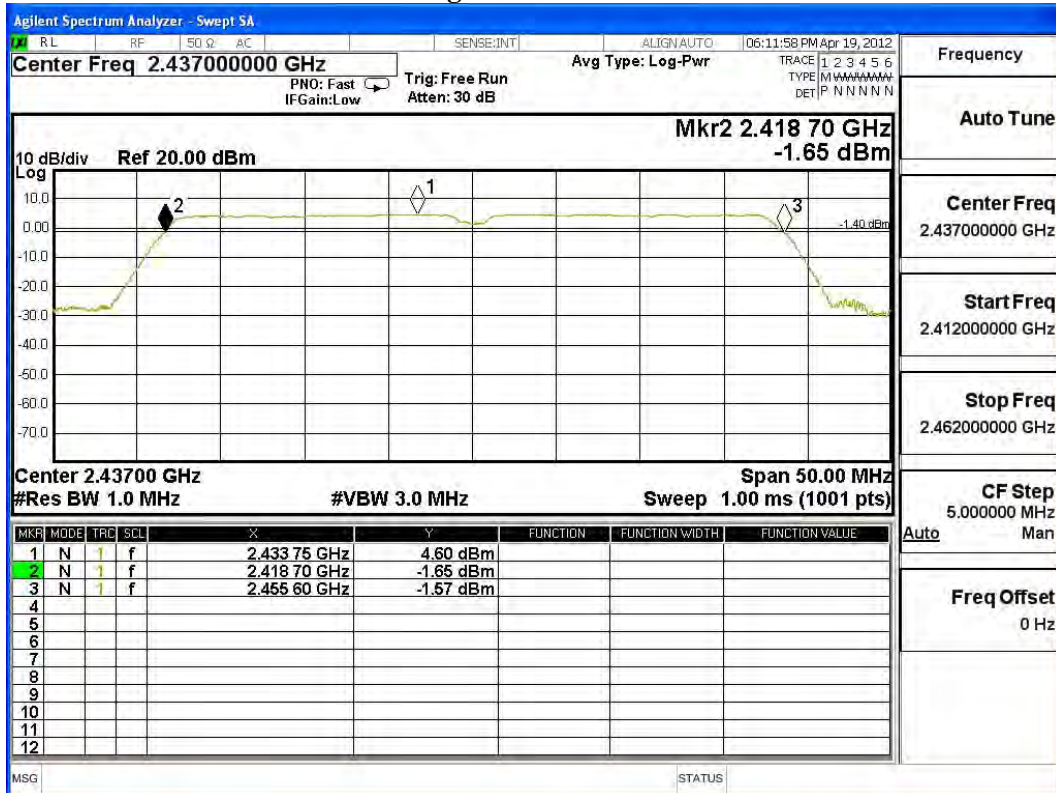
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2437MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
4	2437.00	36900	>500	Pass

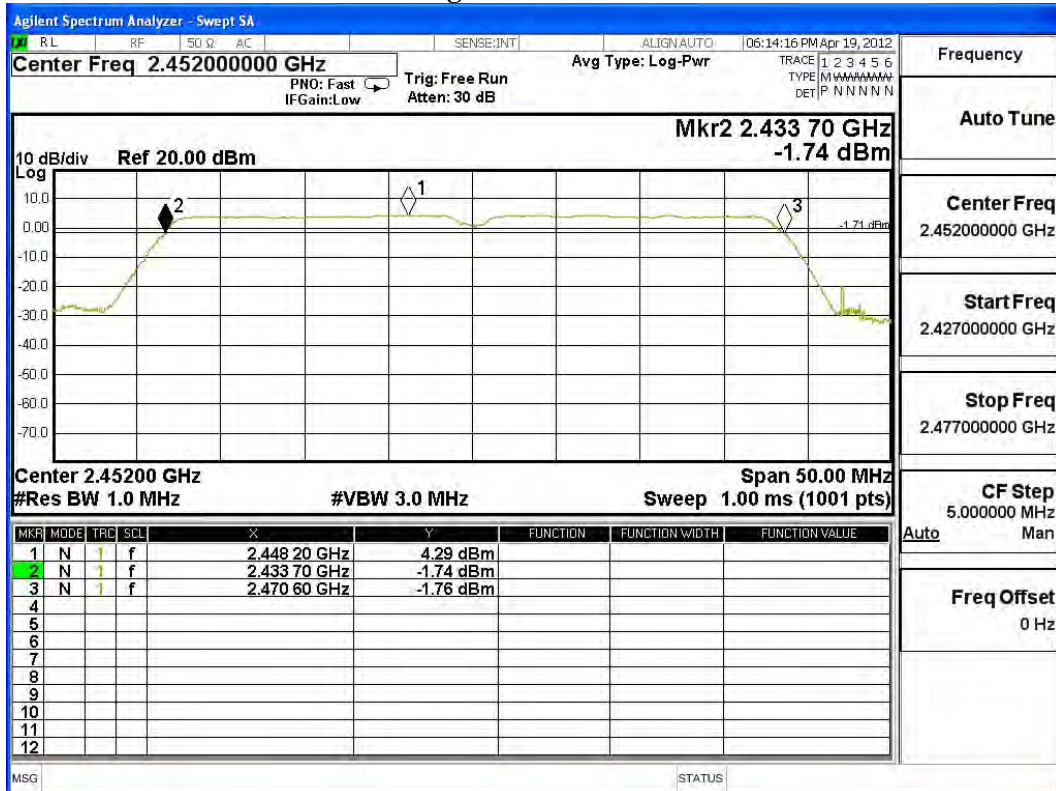
**Figure Channel 4:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2452MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
7	2452.00	36900	>500	Pass

**Figure Channel 7:**

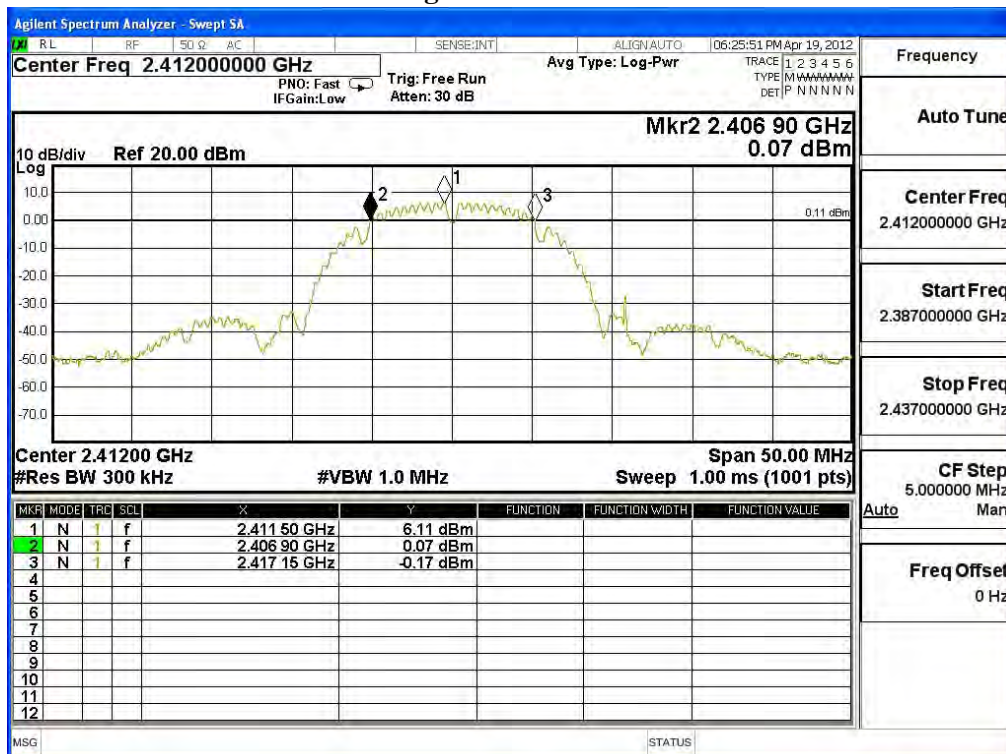




Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	10250	>500	Pass

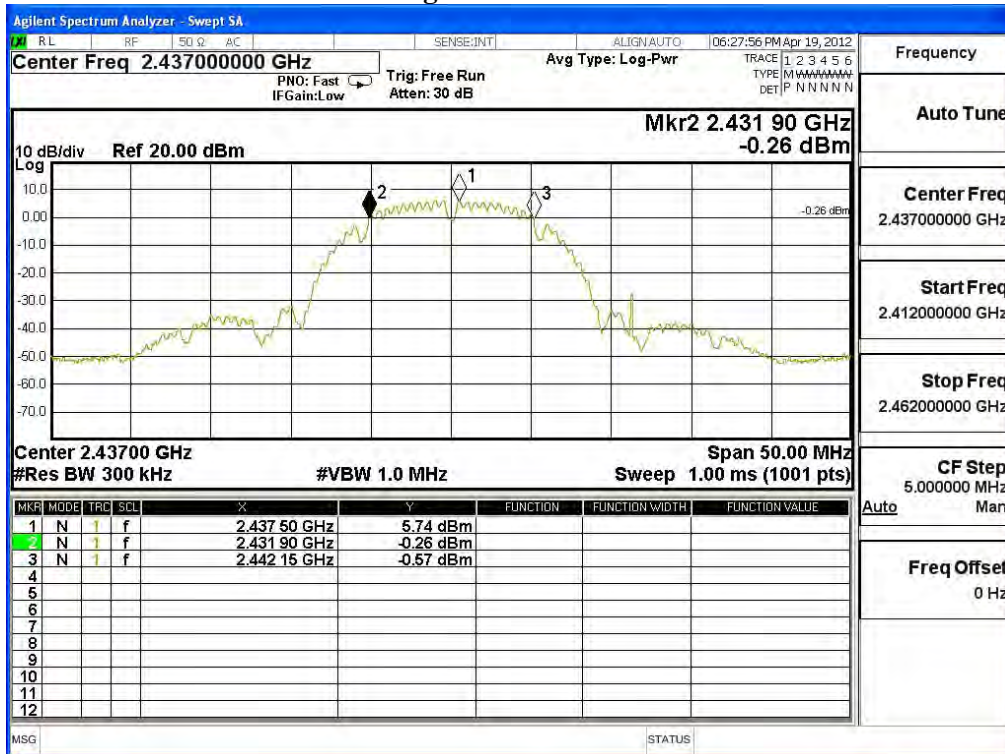
Figure Channel 1:



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	10250	>500	Pass

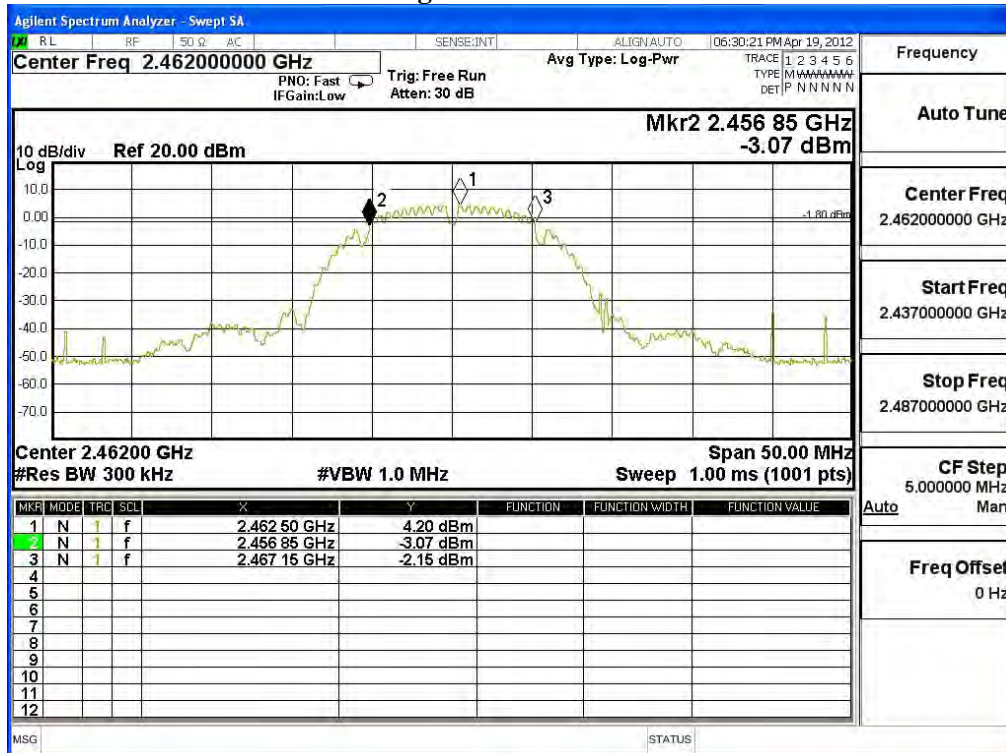
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	10300	>500	Pass

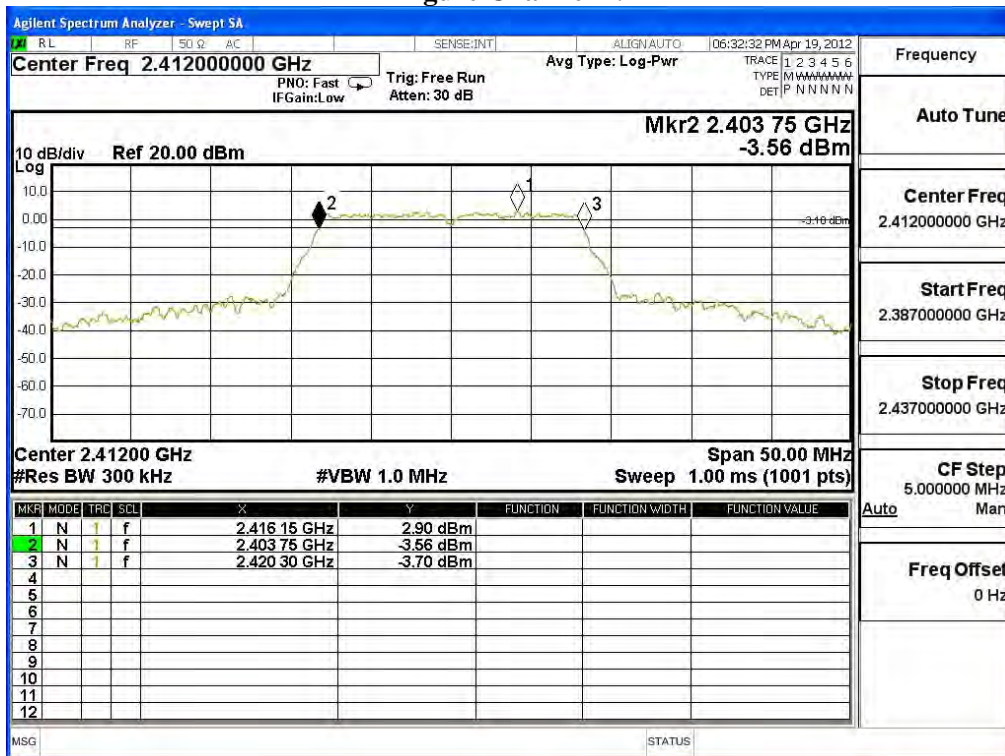
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16550	>500	Pass

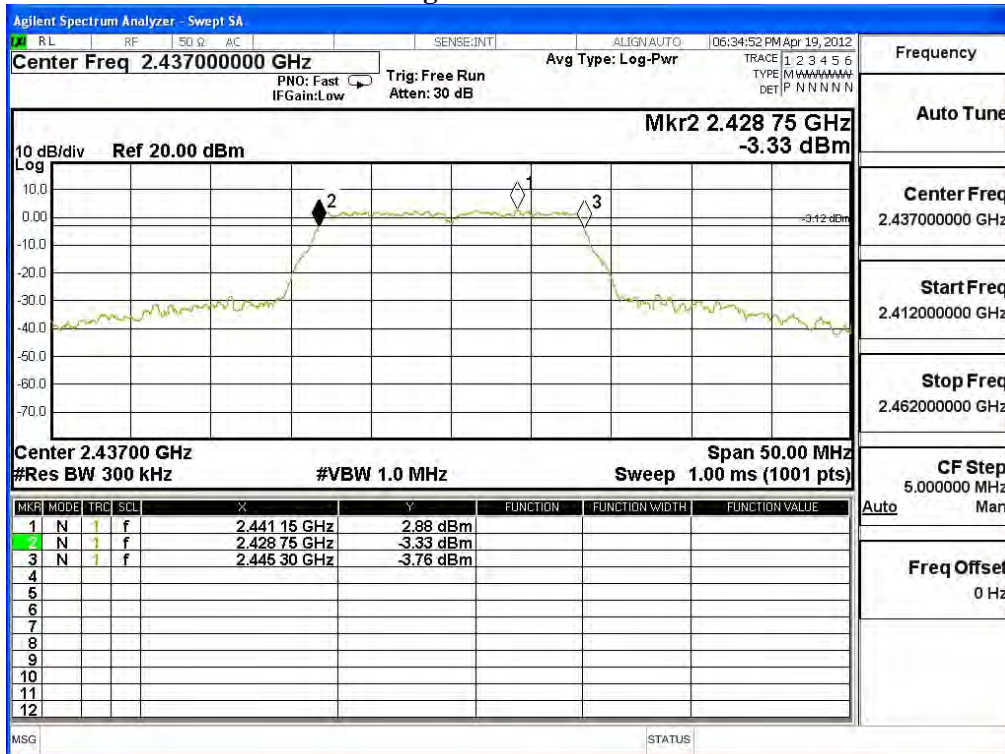
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	16550	>500	Pass

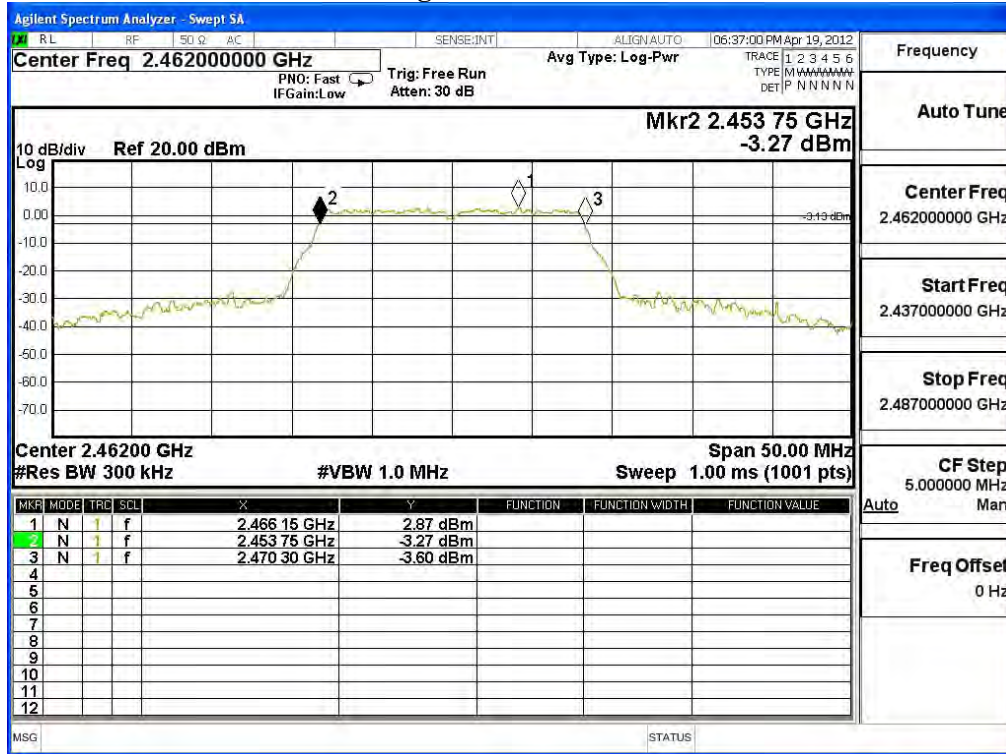
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	16550	>500	Pass

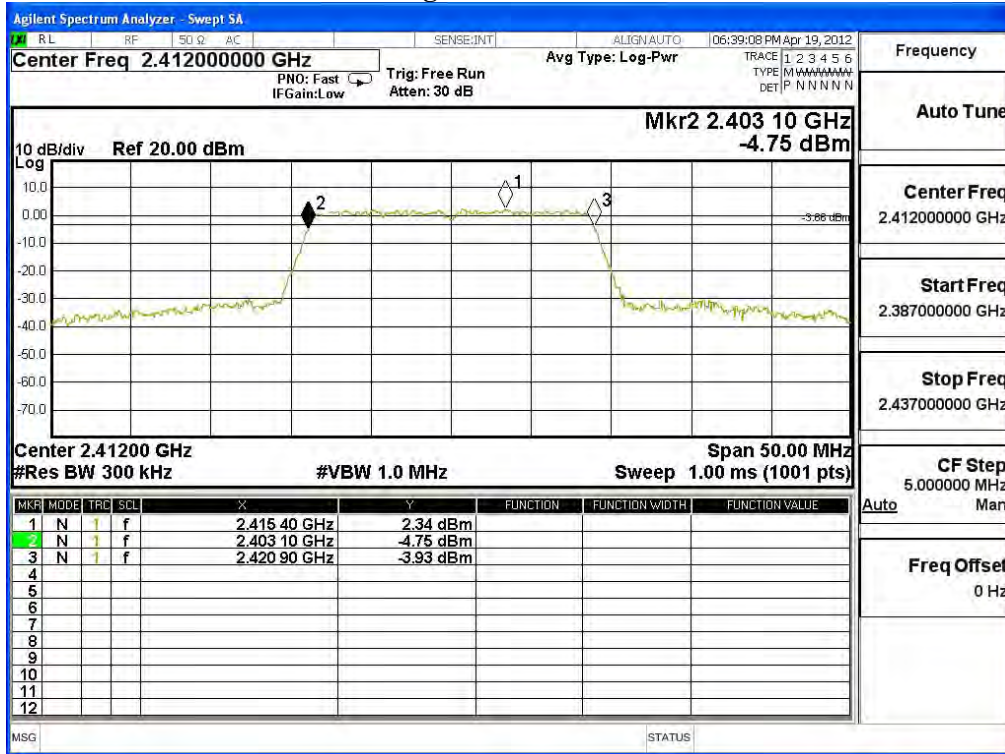
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2412MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	17800	>500	Pass

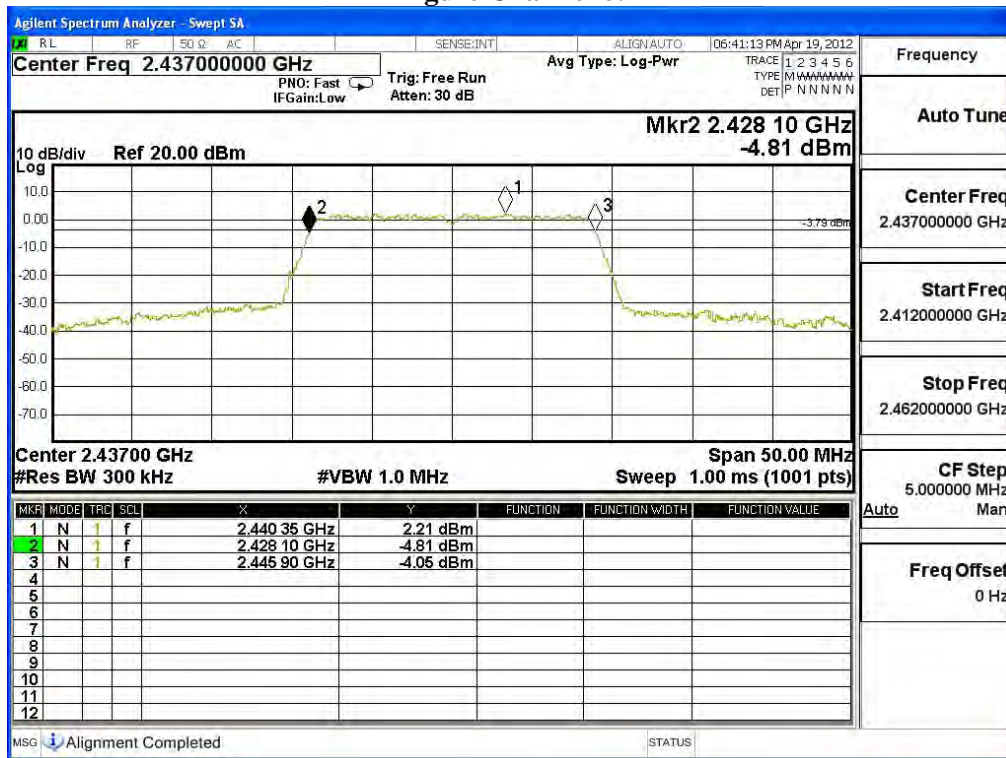
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2437MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17800	>500	Pass

**Figure Channel 6:**

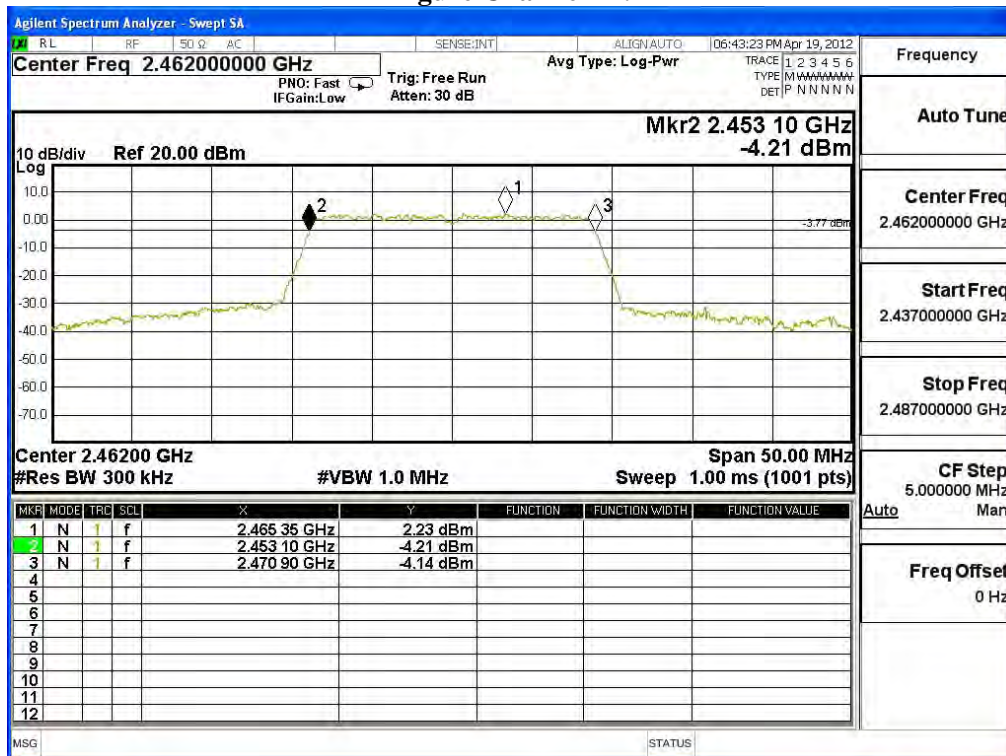




Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2462MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17800	>500	Pass

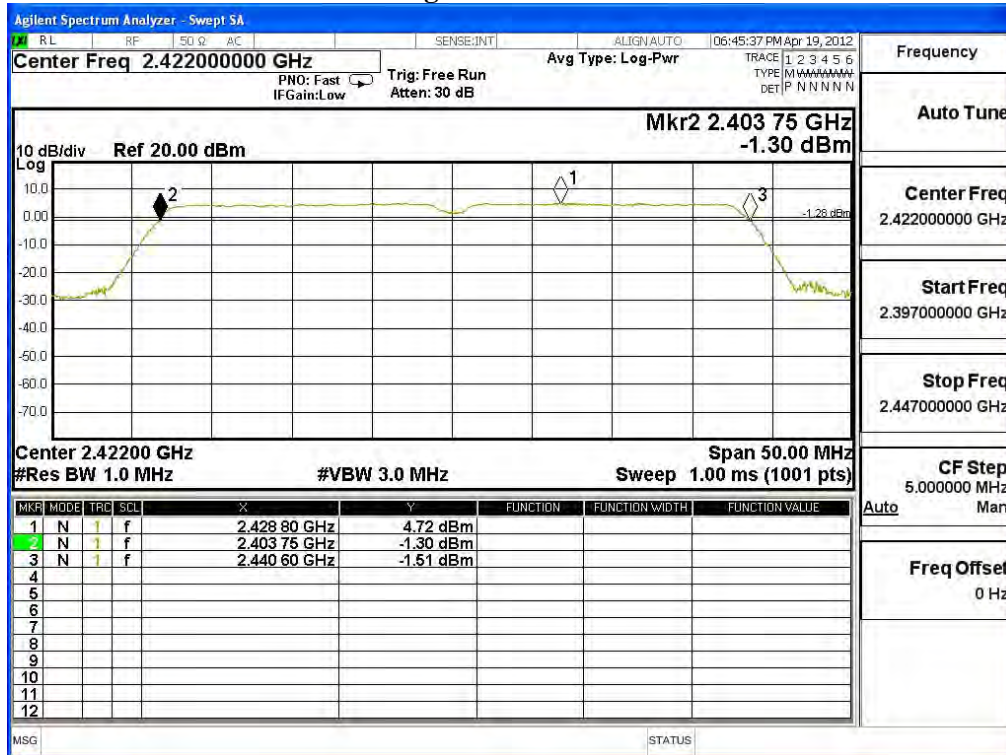
Figure Channel 11:



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2422MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2422.00	36850	>500	Pass

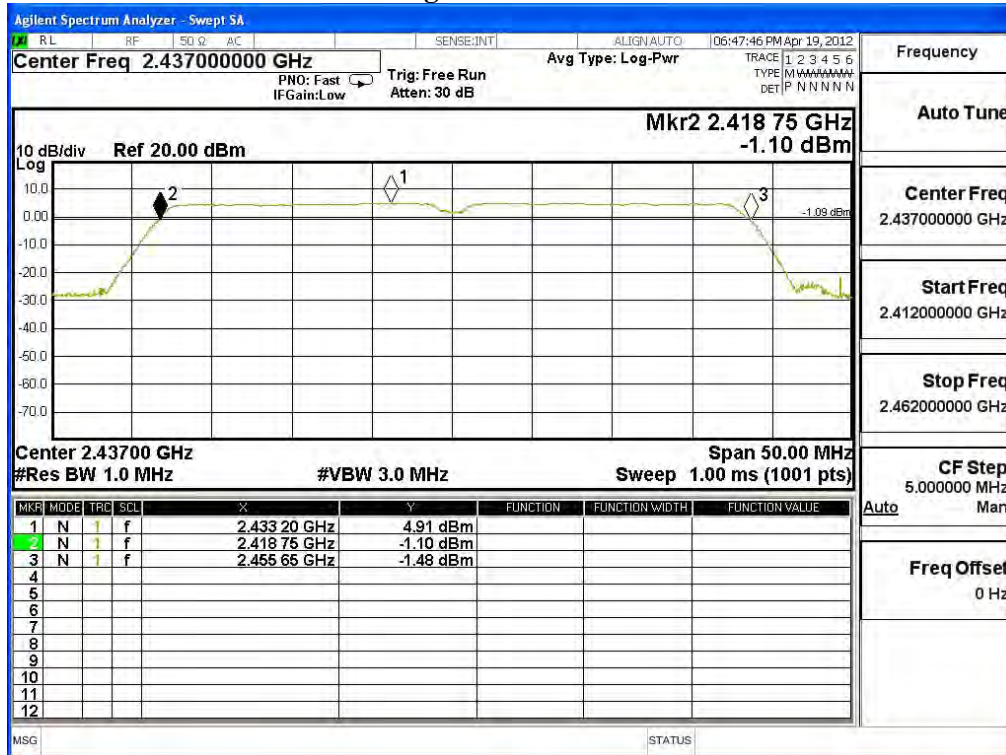
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2437MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
4	2437.00	36900	>500	Pass

**Figure Channel 4:**



Product : PR1 Receiver  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2452MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
7	2452.00	36850	>500	Pass

**Figure Channel 7:**



## 8. Power Density

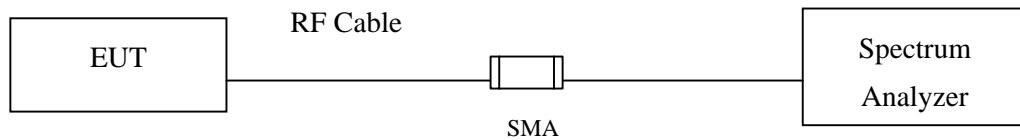
### 8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

### 8.2. Test Setup



### 8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

### 8.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 100 kHz, VBW $\geq$ 300KHz, SPAN to 5-30 % greater than the EBW,

Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where  $BWCF = 10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$ .

### 8.5. Uncertainty

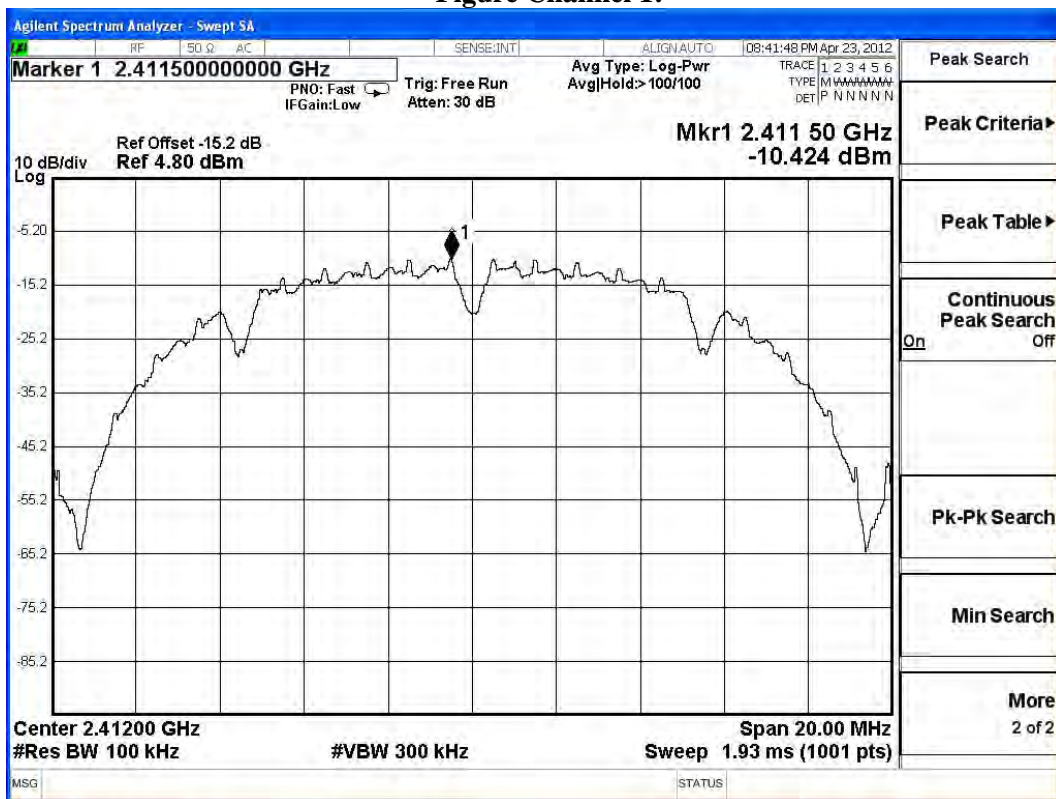
$\pm 1.27\text{ dB}$

### 8.6. Test Result of Power Density

Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-10.424	< 8dBm	Pass

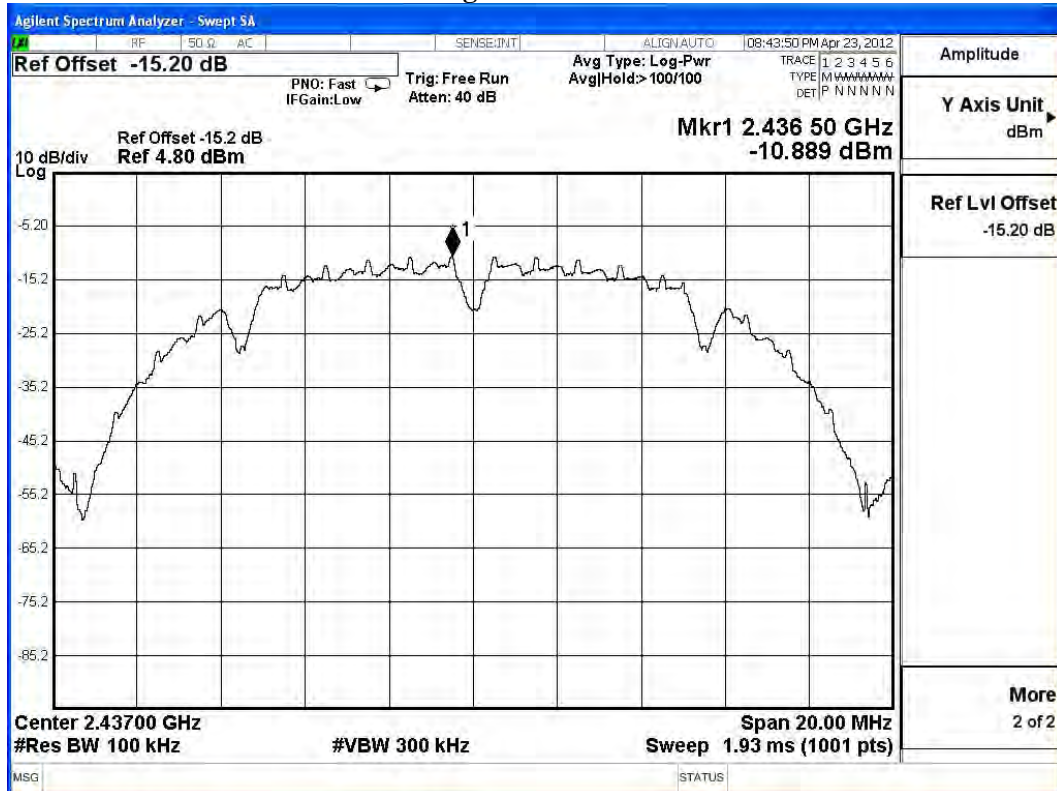
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-10.889	< 8dBm	Pass

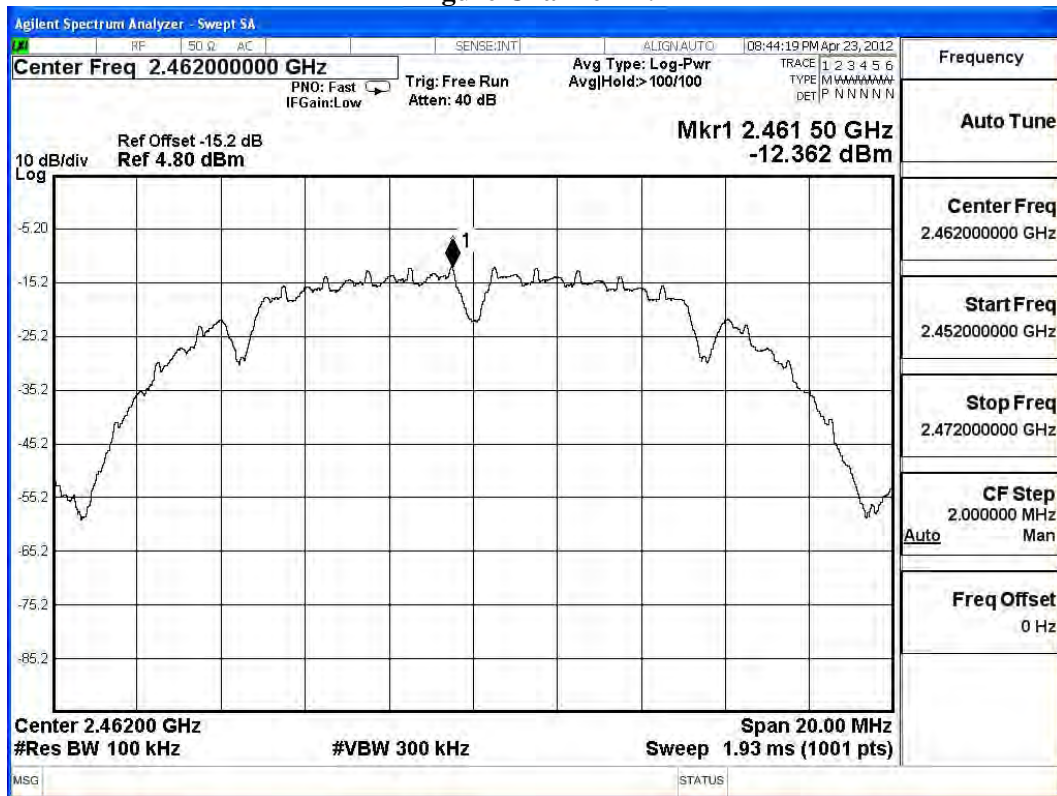
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-12.362	< 8dBm	Pass

**Figure Channel 11:**

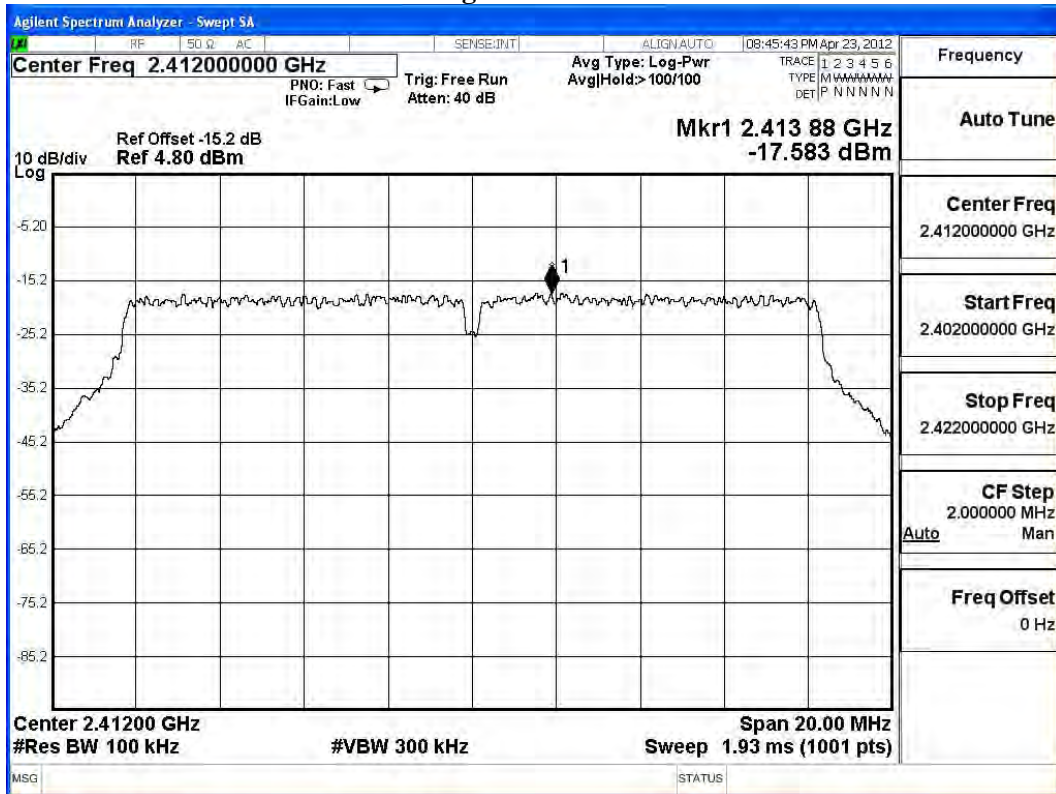




Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-17.583	< 8dBm	Pass

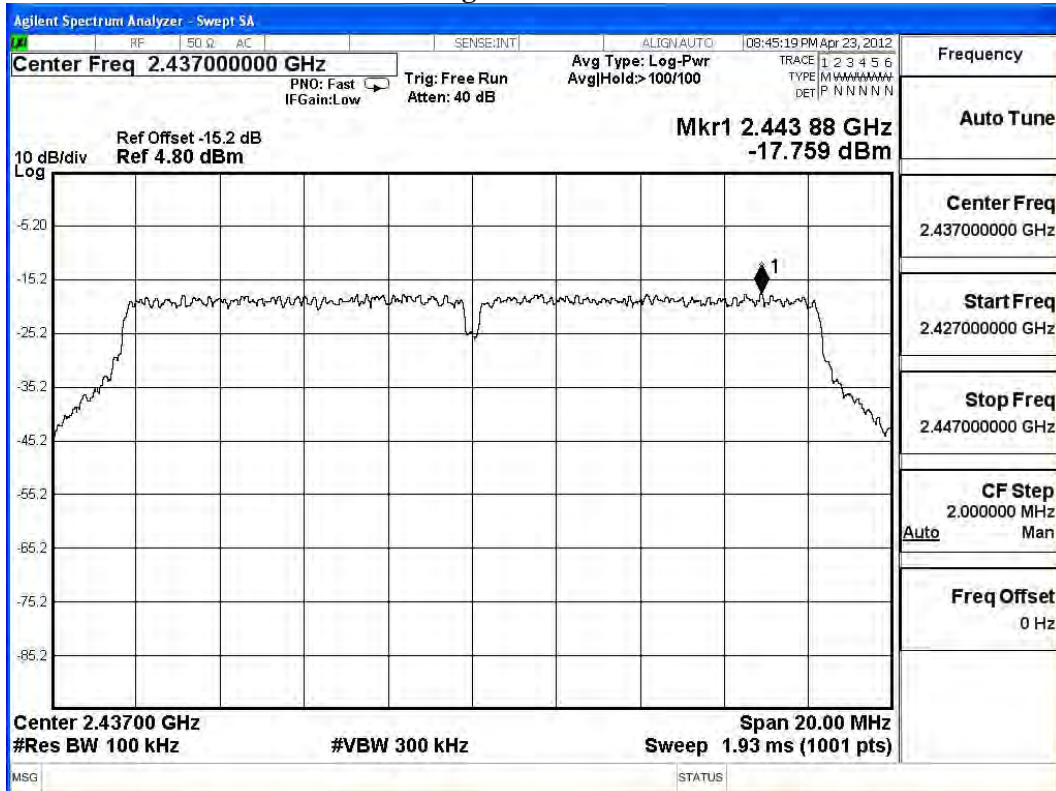
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-17.759	< 8dBm	Pass

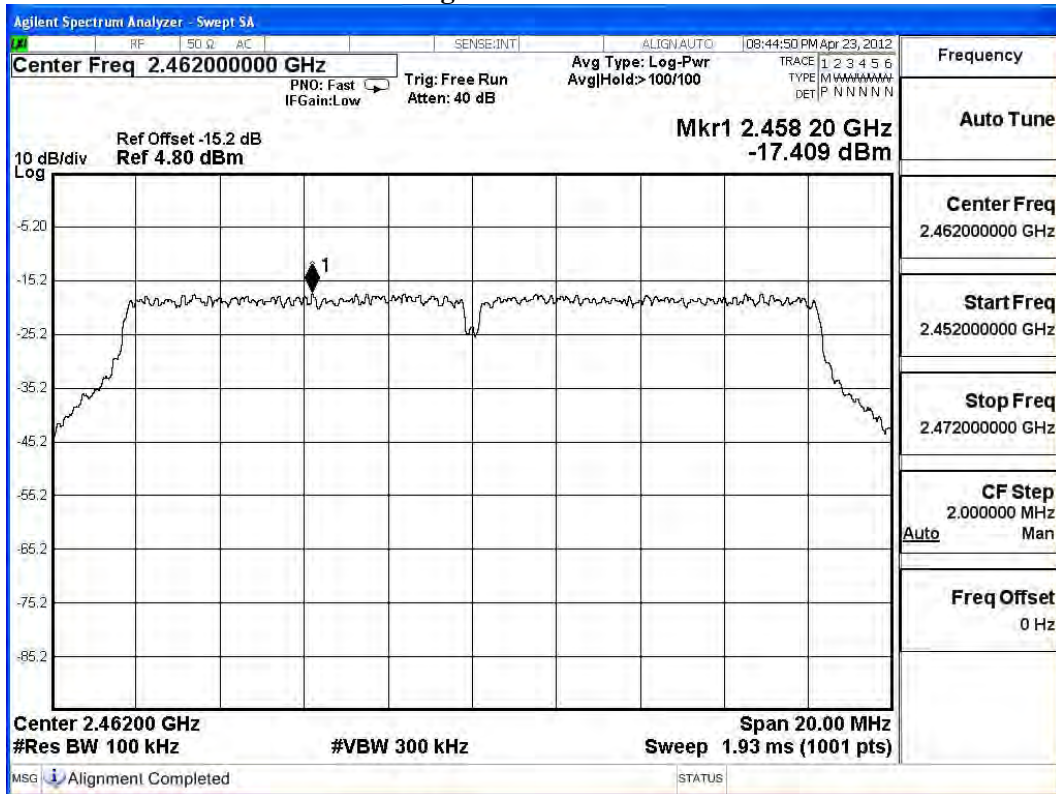
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz) -MCU 162MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-17.409	< 8dBm	Pass

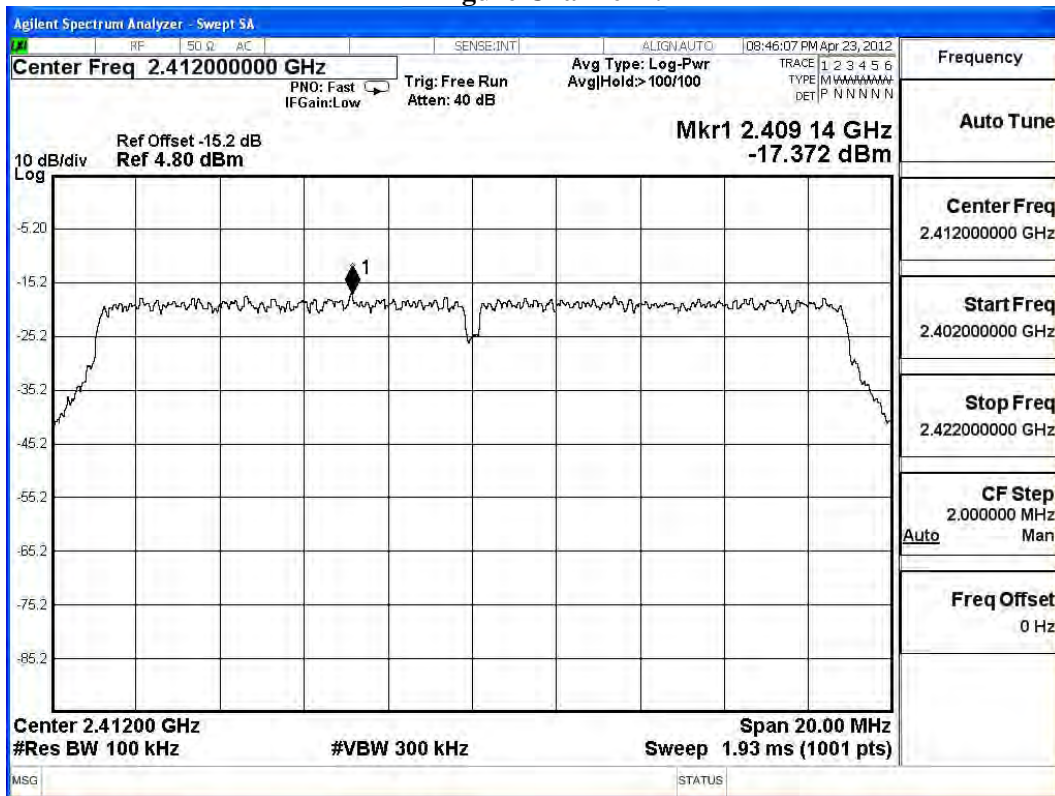
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2412MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
1	2412.00	-17.372	< 8dBm	Pass

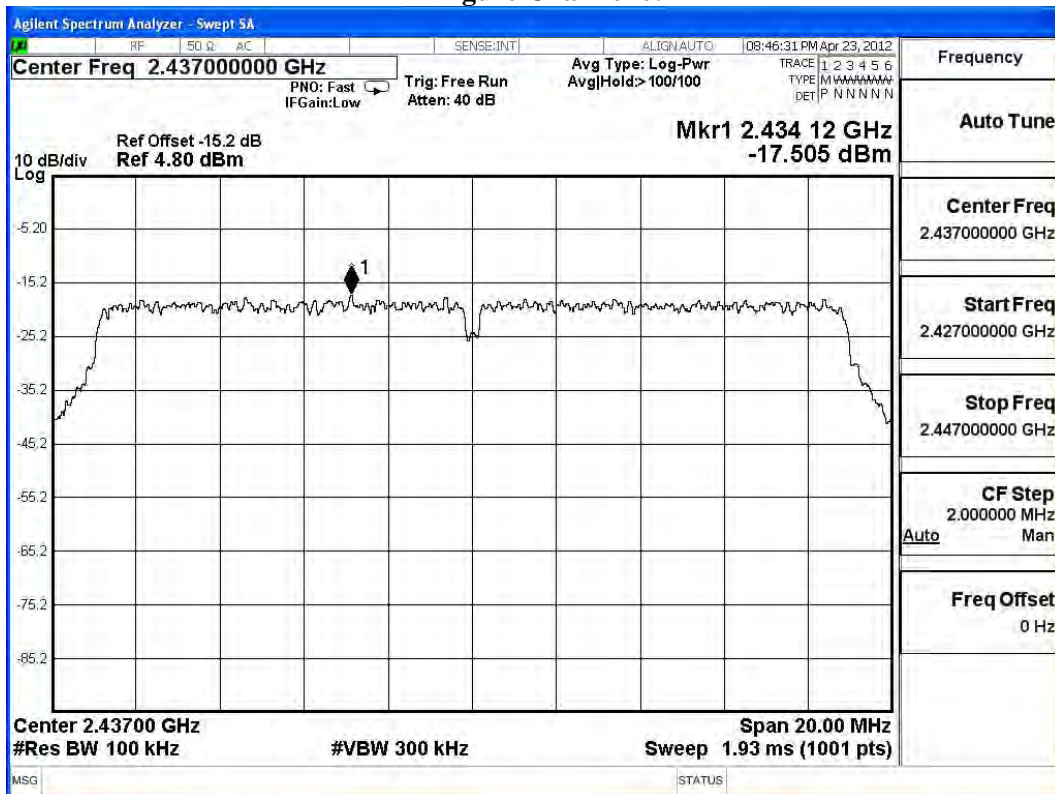
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2437MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
6	2437.00	-17.505	< 8dBm	Pass

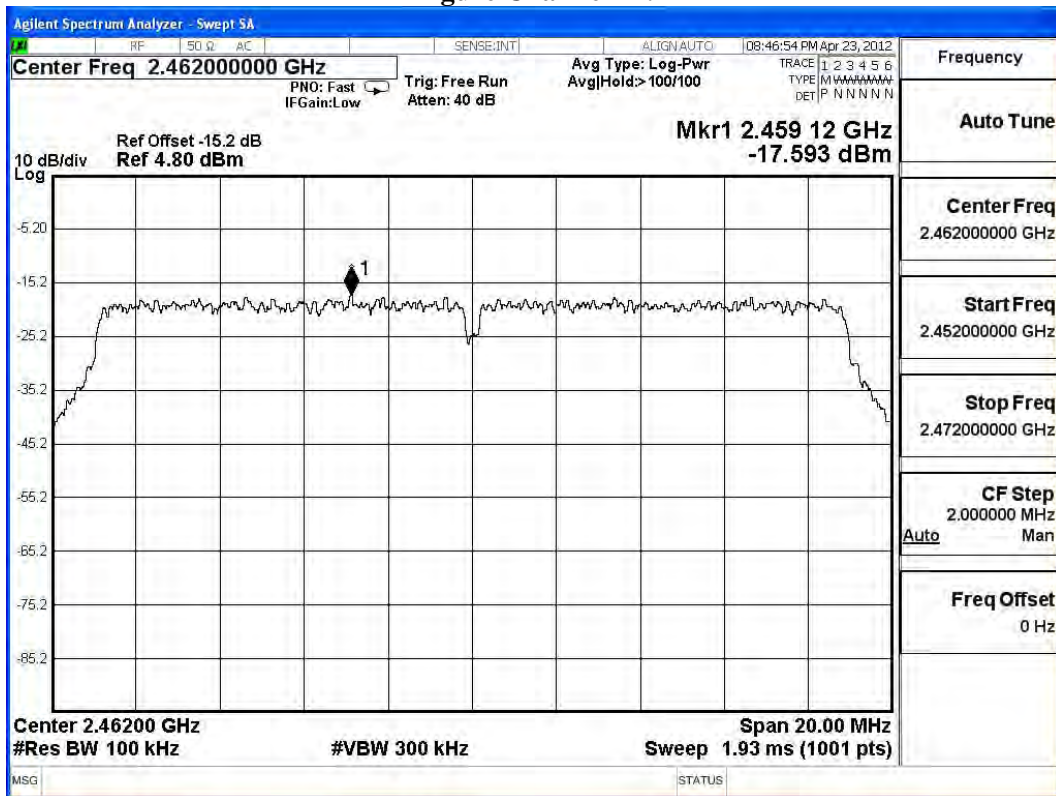
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2462MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
11	2462.00	-17.593	< 8dBm	Pass

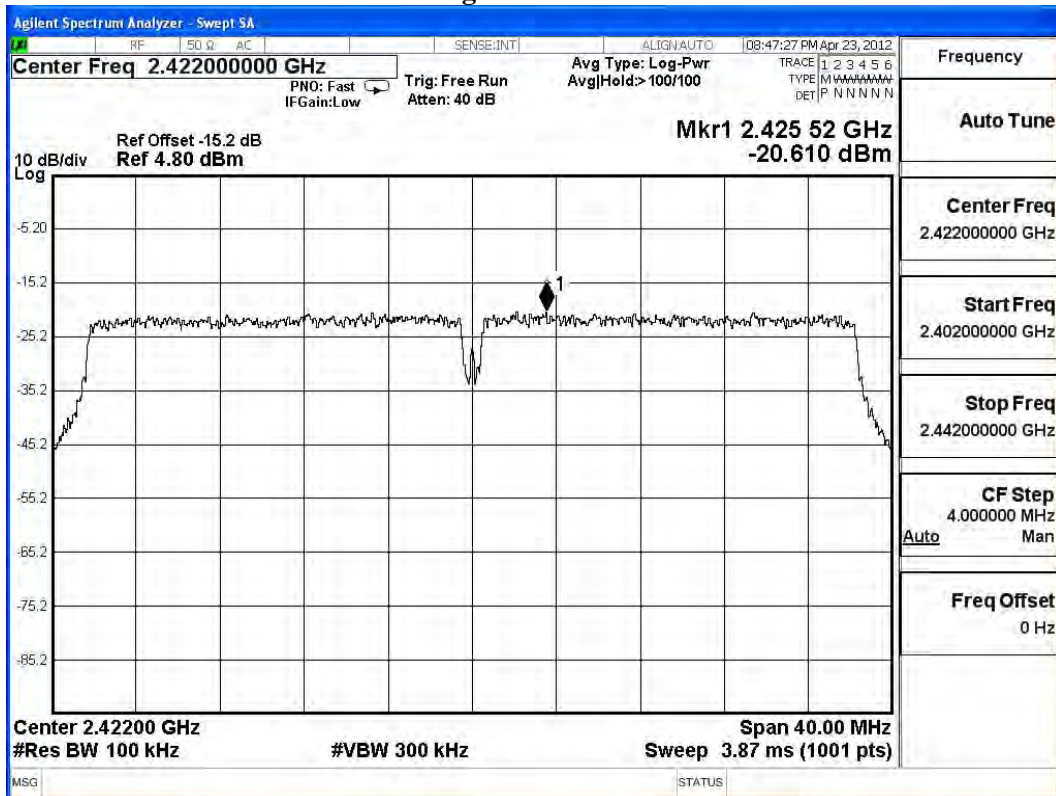
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2422MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
1	2422.00	-20.610	< 8dBm	Pass

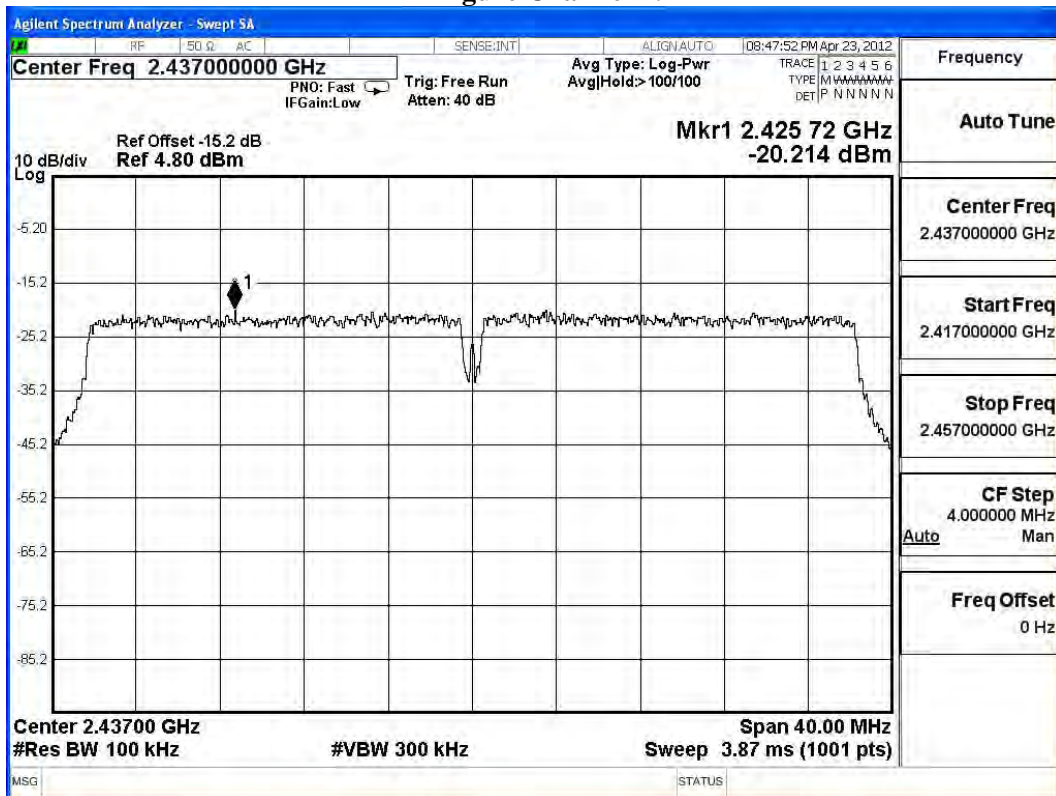
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2437MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
4	2437.00	-20.214	< 8dBm	Pass

**Figure Channel 4:**

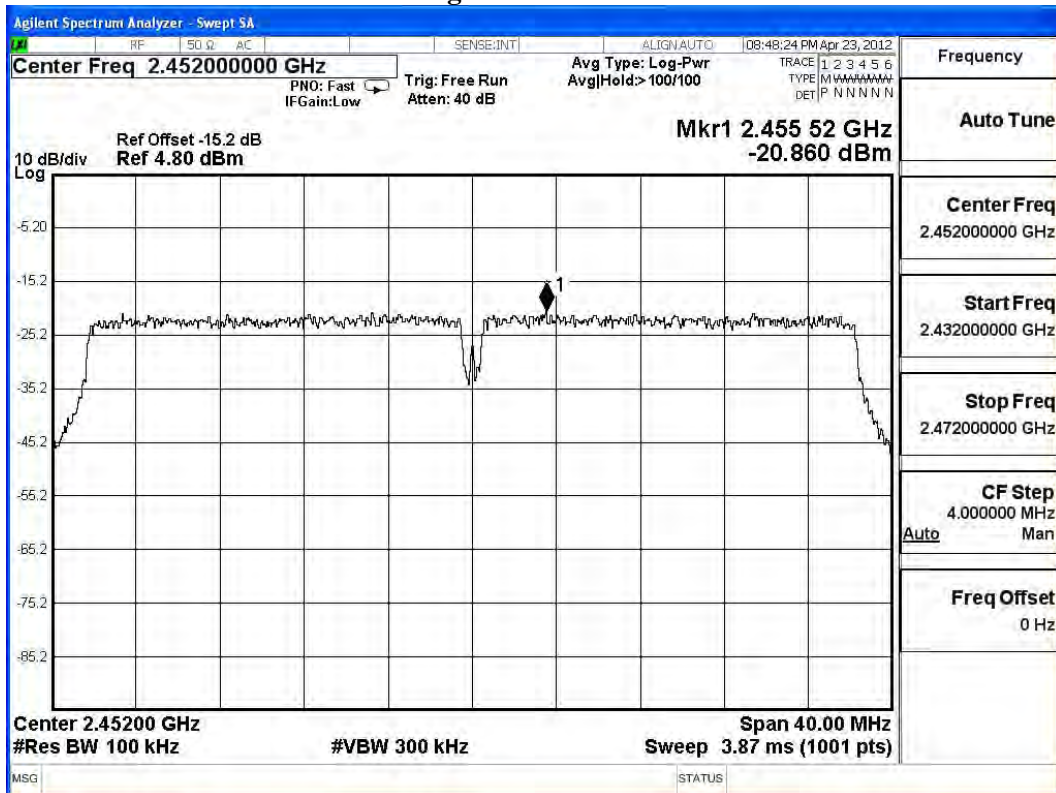




Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2452MHz)  
 -MCU 162MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
7	2452.00	-20.860	< 8dBm	Pass

**Figure Channel 7:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-11.095	< 8dBm	Pass

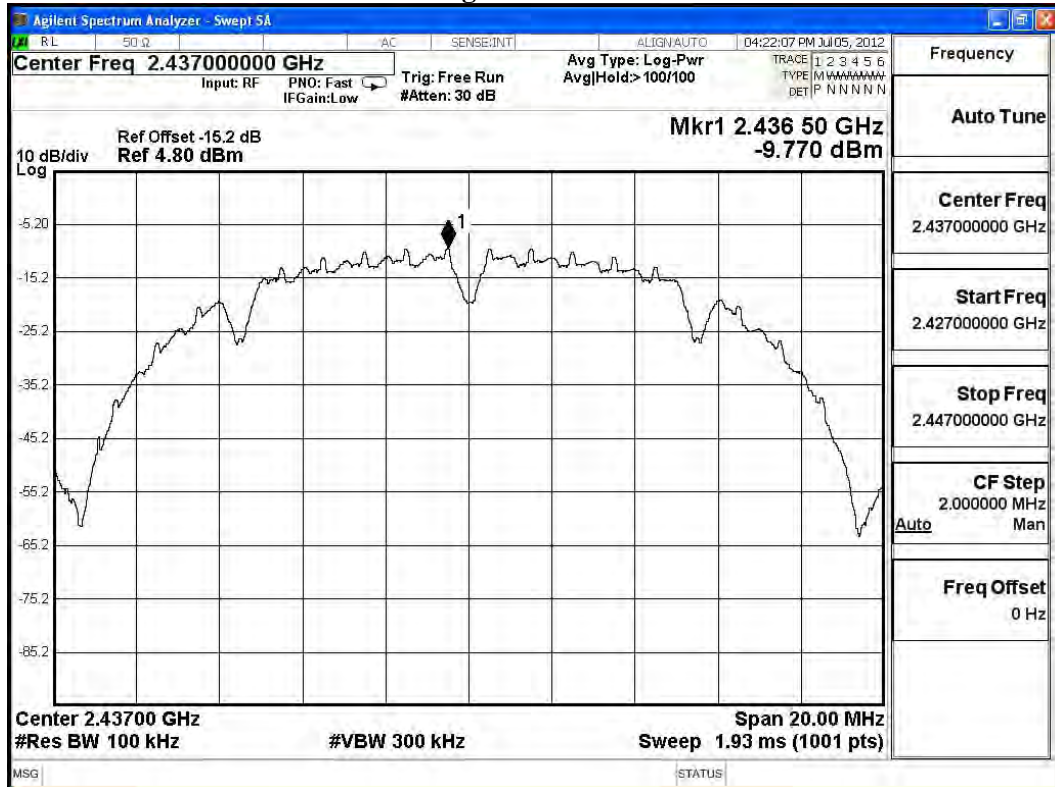
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz) - MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-9.770	< 8dBm	Pass

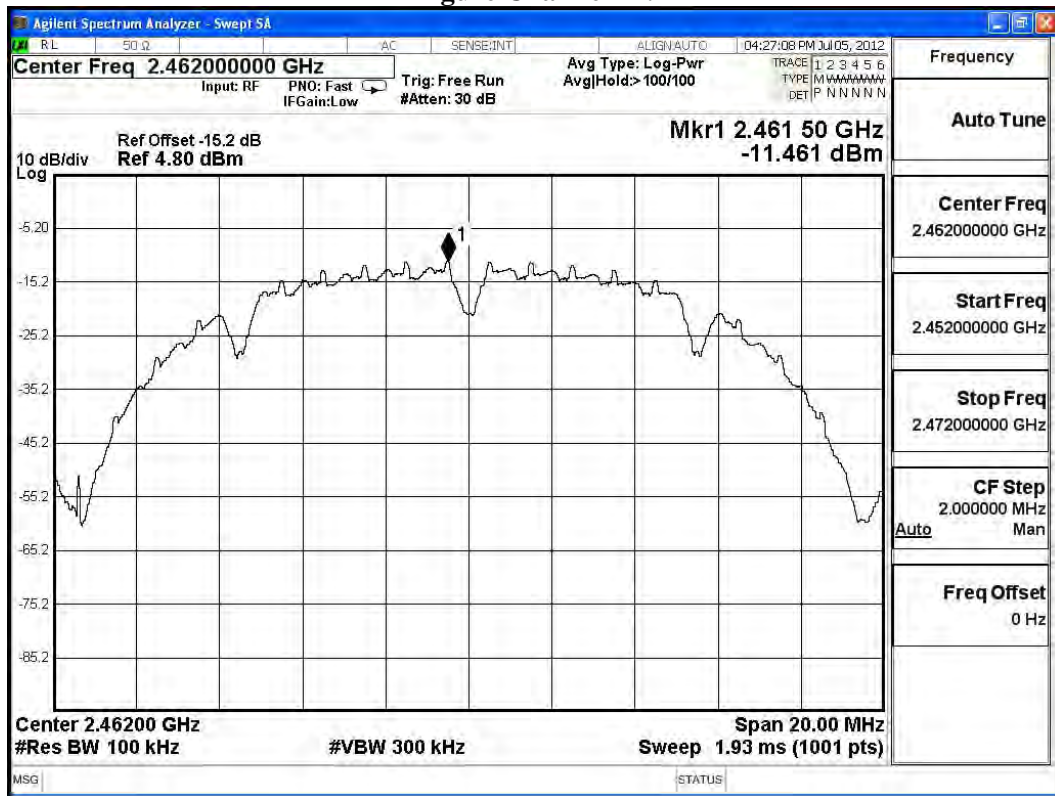
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz) - MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-11.461	< 8dBm	Pass

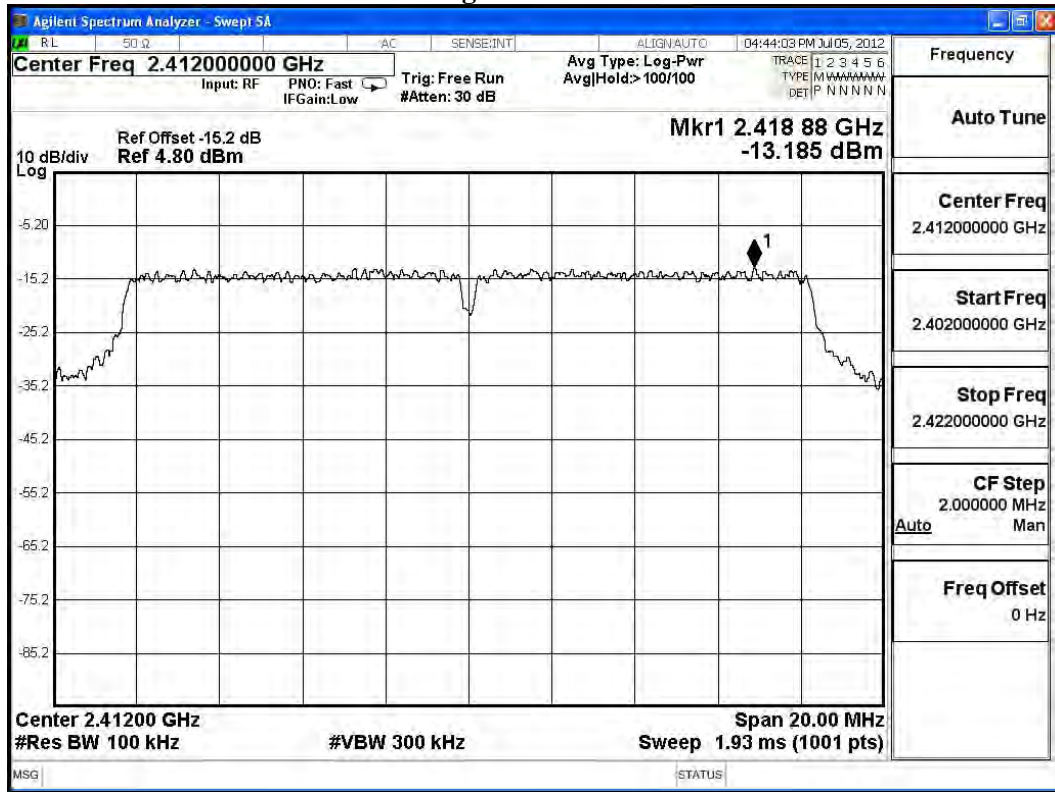
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-13.185	< 8dBm	Pass

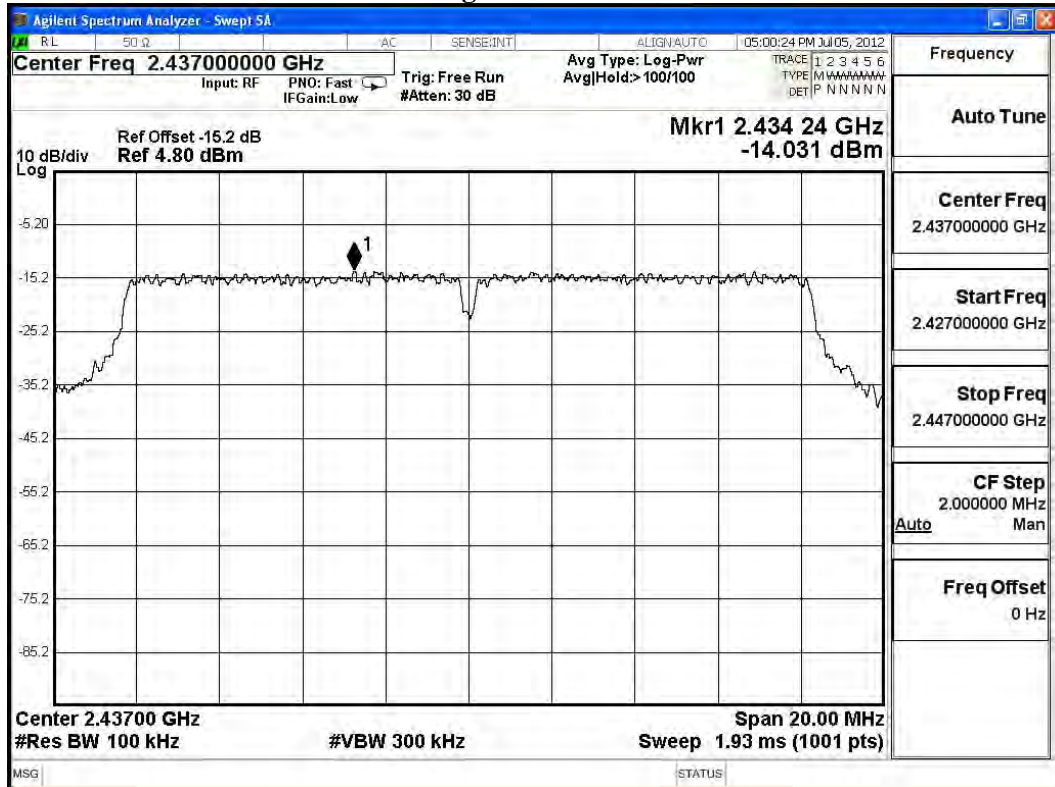
**Figure Channel 1:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-14.031	< 8dBm	Pass

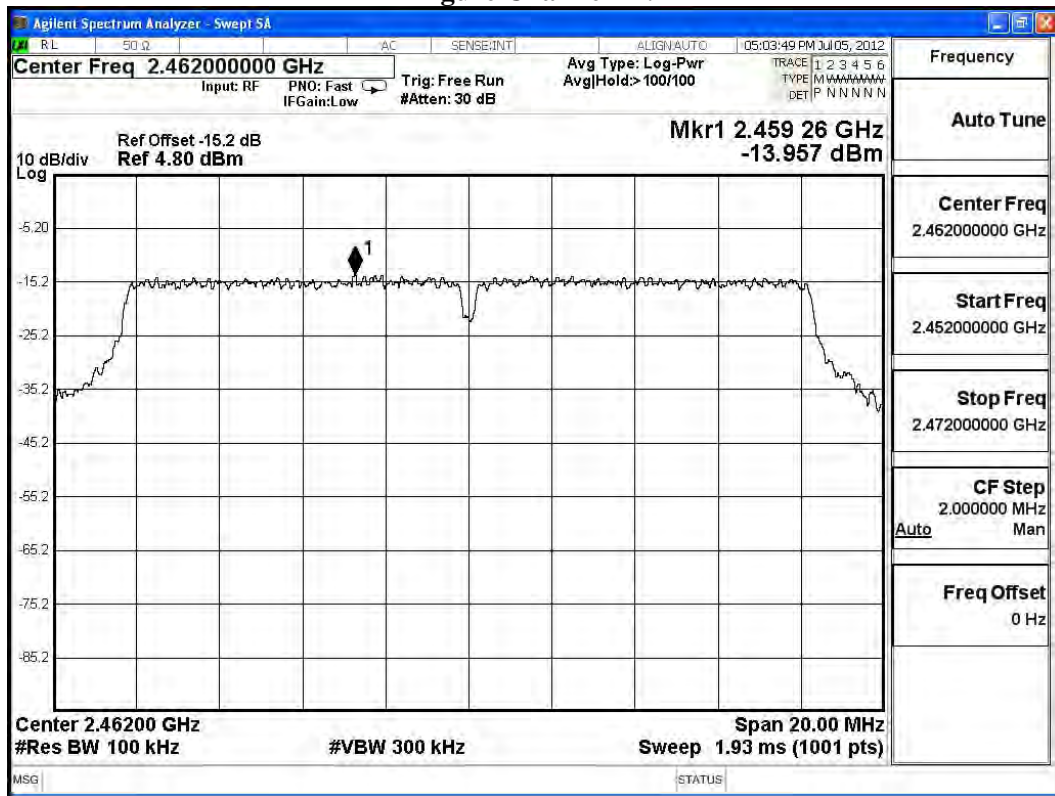
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz) -MCU 166MHz

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-13.957	< 8dBm	Pass

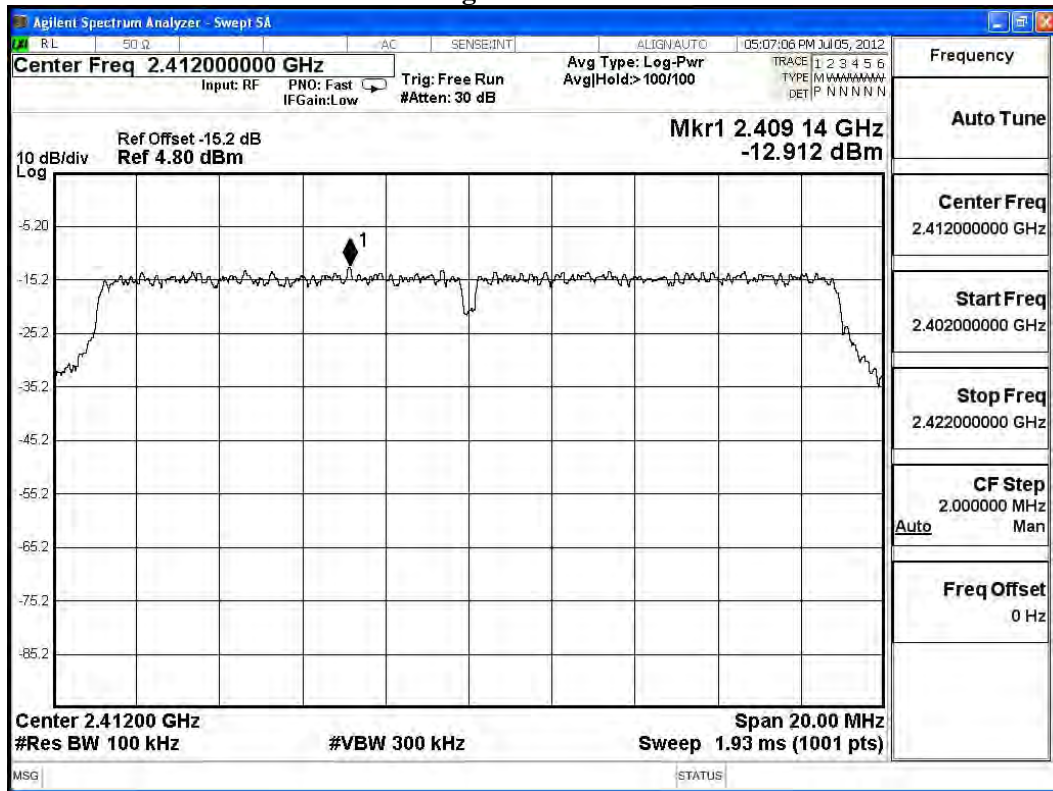
**Figure Channel 11:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2412MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
1	2412.00	-12.912	< 8dBm	Pass

**Figure Channel 1:**

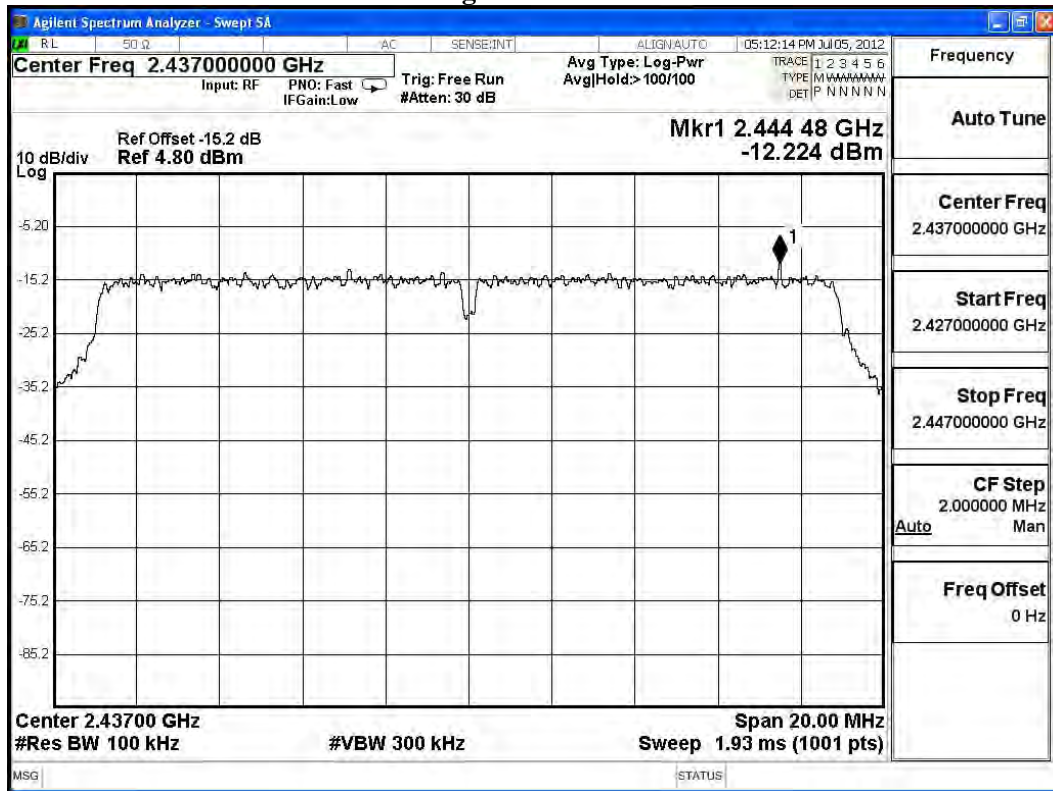




Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2437MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
6	2437.00	-12.224	< 8dBm	Pass

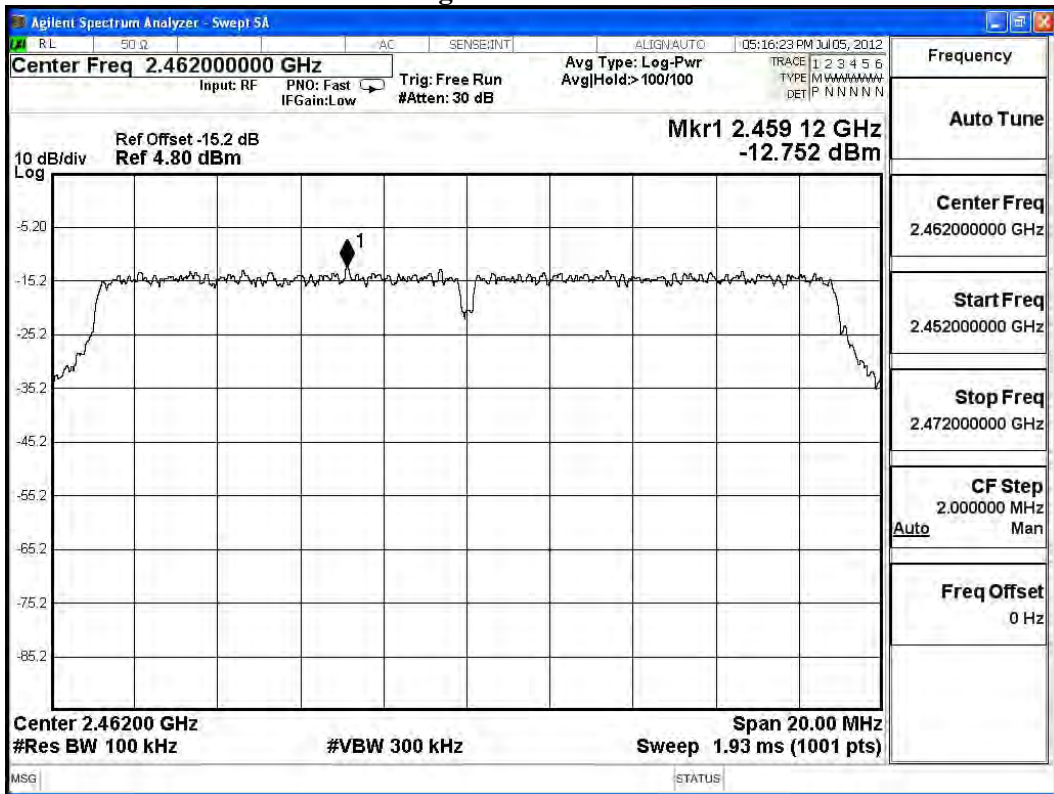
**Figure Channel 6:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11n-20BW\_7.2Mbps(2.4G Band) (2462MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
11	2462.00	-12.752	< 8dBm	Pass

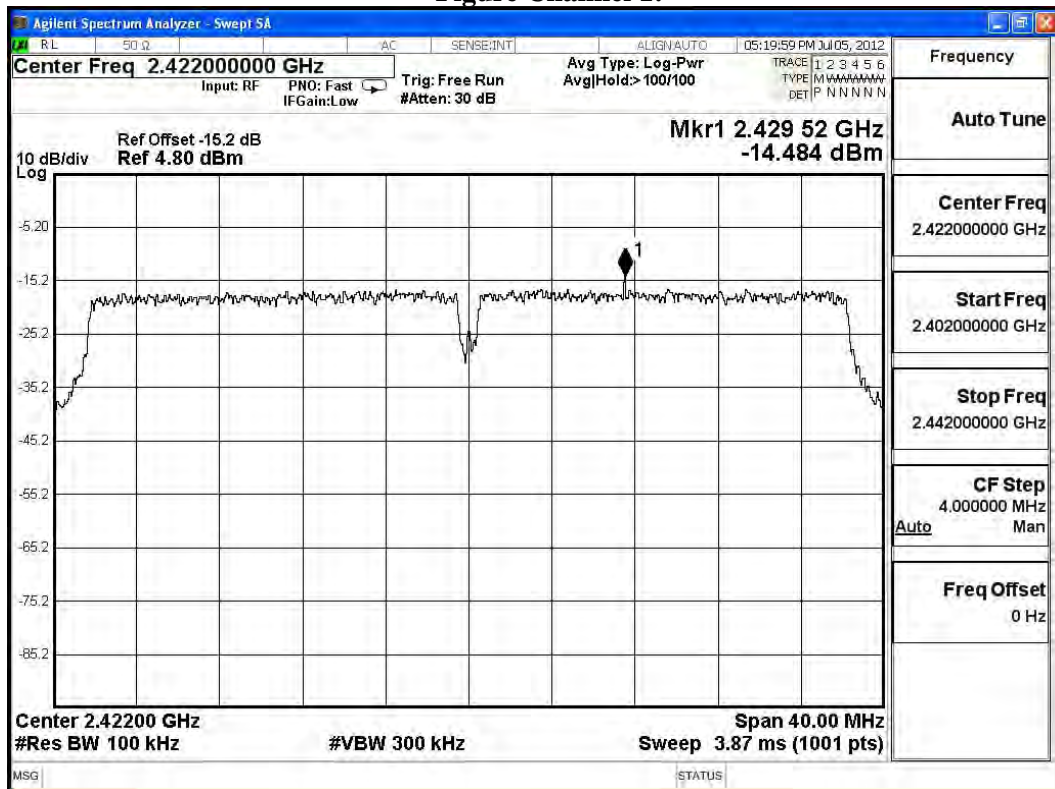
Figure Channel 11:



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2422MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
1	2422.00	-14.484	< 8dBm	Pass

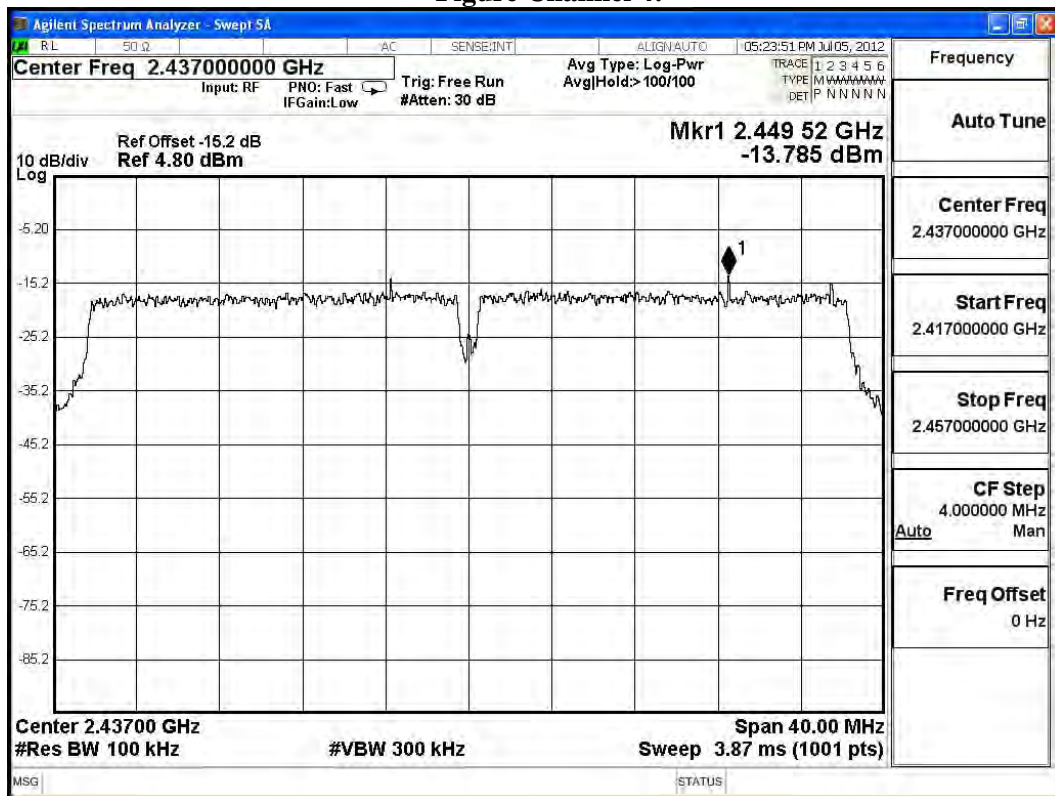
Figure Channel 1:



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2437MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
4	2437.00	-13.785	< 8dBm	Pass

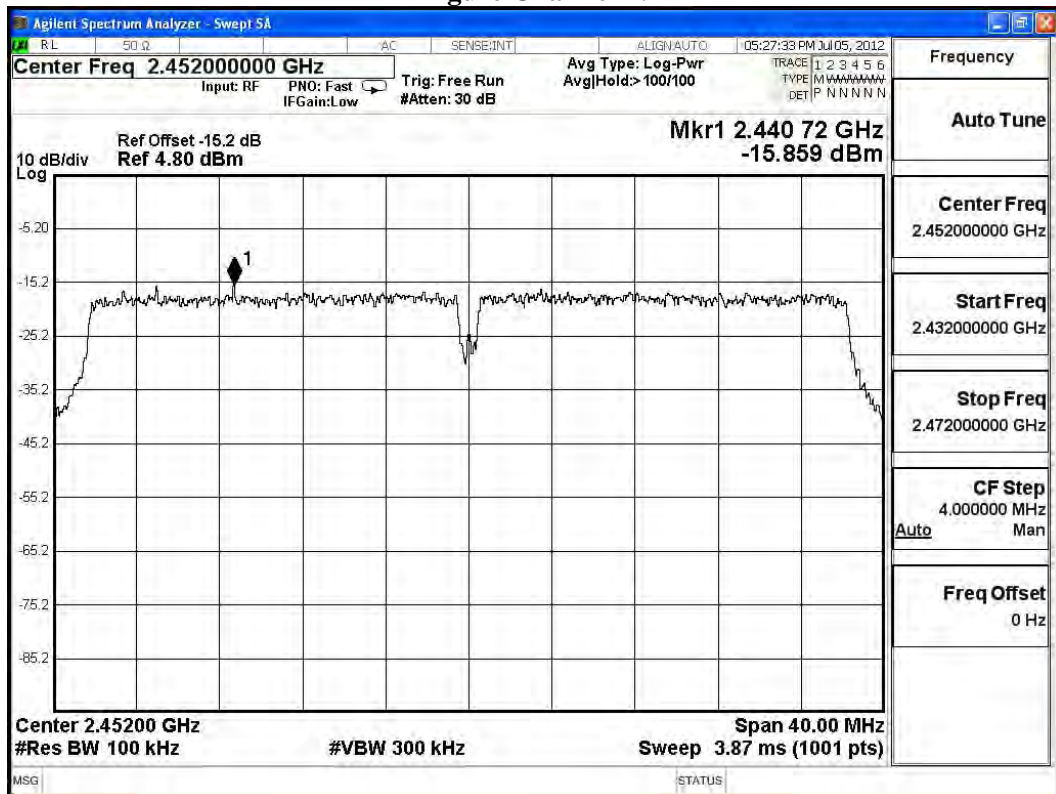
**Figure Channel 4:**



Product : PR1 Receiver  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-40BW\_15Mbps(2.4G Band) (2452MHz)  
 -MCU 166MHz

Channel No.	Frequency (MHz)	Power (dBm)	Limit (dBm)	Result
7	2452.00	-15.859	< 8dBm	Pass

Figure Channel 7:



## 9. EMI Reduction Method During Compliance Testing

No modification was made during testing.