

Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	70.94	102.959	Peak
Horizontal	2462	32.019	60.12	92.139	Average
Vertical	2462	31.29	67.84	99.13	Peak
Vertical	2462	31.29	57.72	89.01	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	2483.8	102.959	42.41	60.549	74.000	Peak
Horizontal	2483.5	92.139	50.7	41.439	54.000	Average
Vertical	2483.8	99.13	42.41	56.72	74.000	Peak
Vertical	2483.5	89.01	50.7	38.31	54.000	Average

Note:

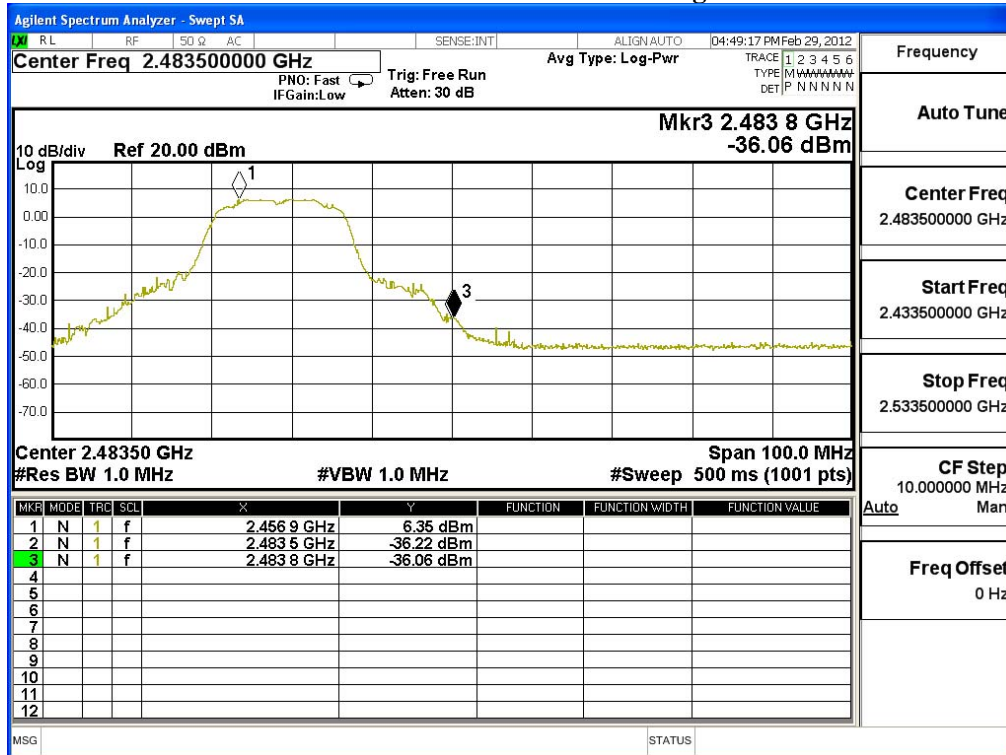
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

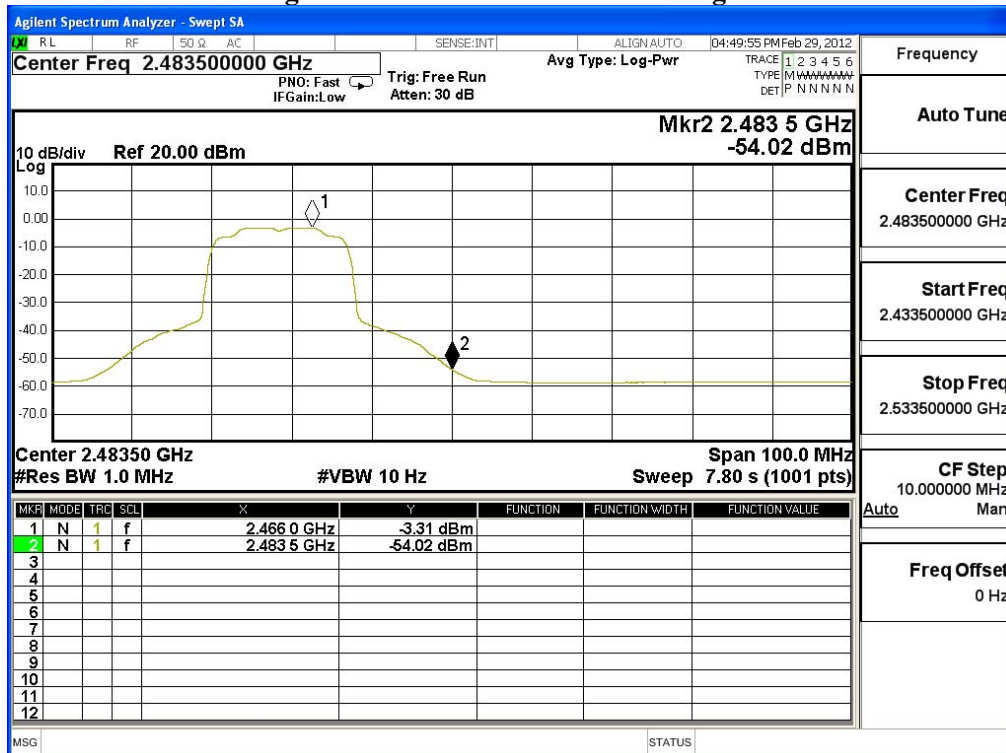
F = Fundamental field Strength (Peak or Average)

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

### Peak Detector of conducted Band Edge Delta



### Average Detector of conducted Band Edge Delta



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-20BW\_14.4Mbps(2.4G Band)

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	31.639	72.77	104.408	Peak
Horizontal	2412	31.639	60.15	91.788	Average
Vertical	2412	30.95	69.93	100.879	Peak
Vertical	2412	30.95	57.44	88.389	Average

Note: 1: Spectrum Analyzer setting:

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

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

**Band Edge Test Data (Chain A)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2389.7	104.408	40.3	64.108	74.000	Peak
Horizontal	2390	91.788	44.58	47.208	54.000	Average
Vertical	2389.7	100.879	40.3	60.579	74.000	Peak
Vertical	2390	88.389	44.58	43.809	54.000	Average

**Band Edge Test Data (Chain B)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2389.4	104.408	41.28	63.128	74.000	Peak
Horizontal	2390	91.788	47.12	44.668	54.000	Average
Vertical	2389.4	100.879	41.28	59.599	74.000	Peak
Vertical	2390	88.389	47.12	41.269	54.000	Average

Note:

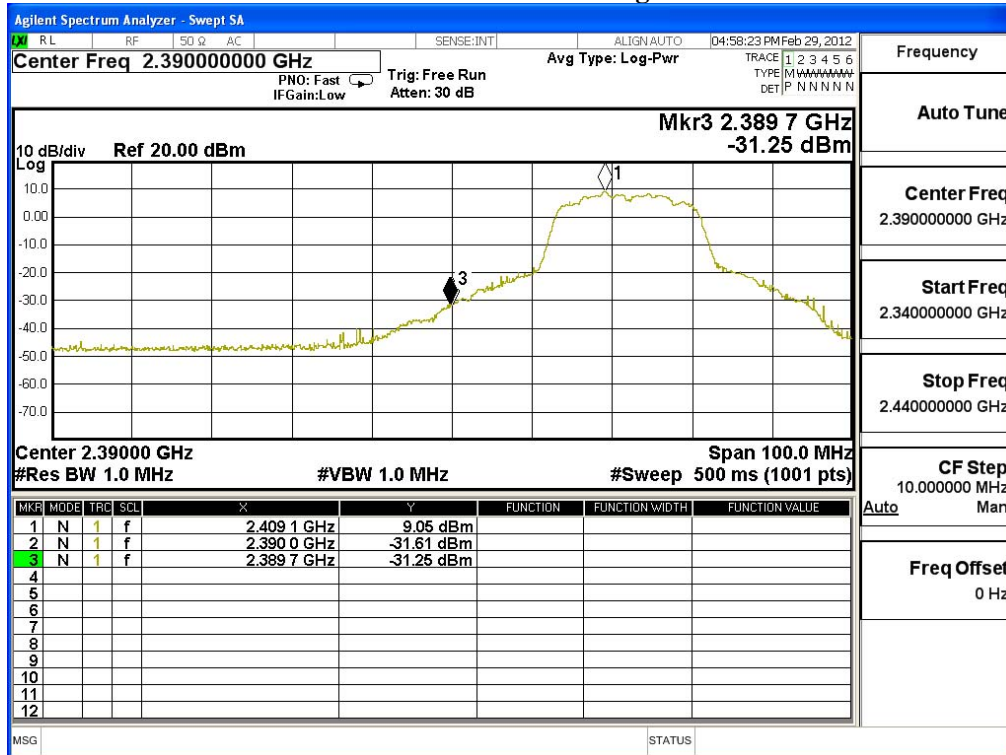
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

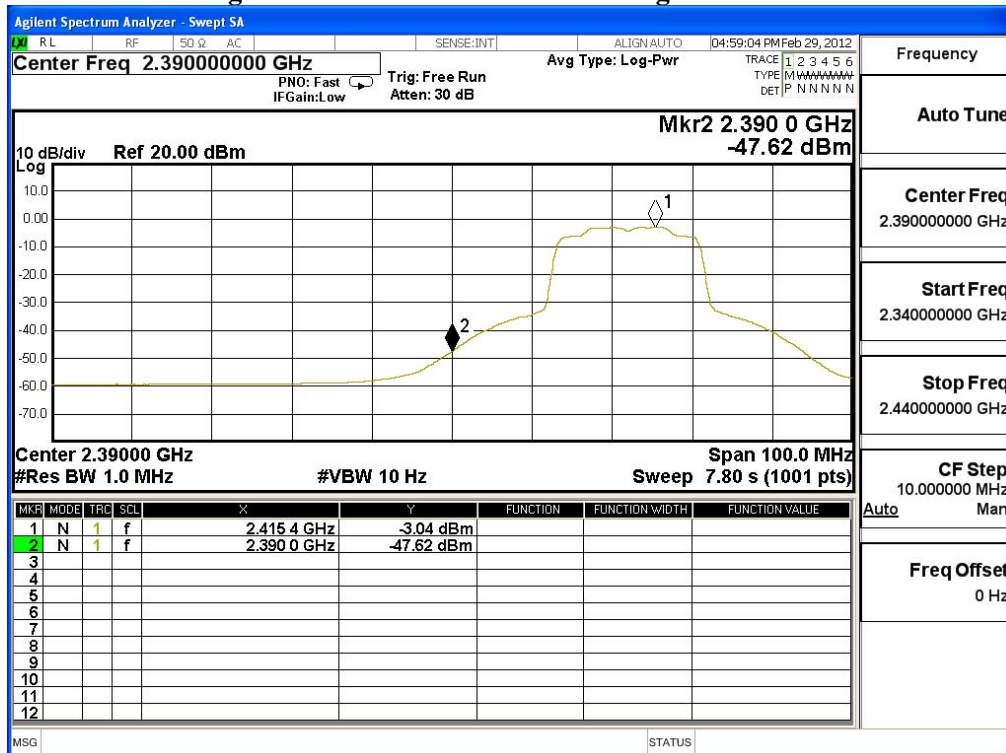
F = Fundamental field Strength (Peak or Average)

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

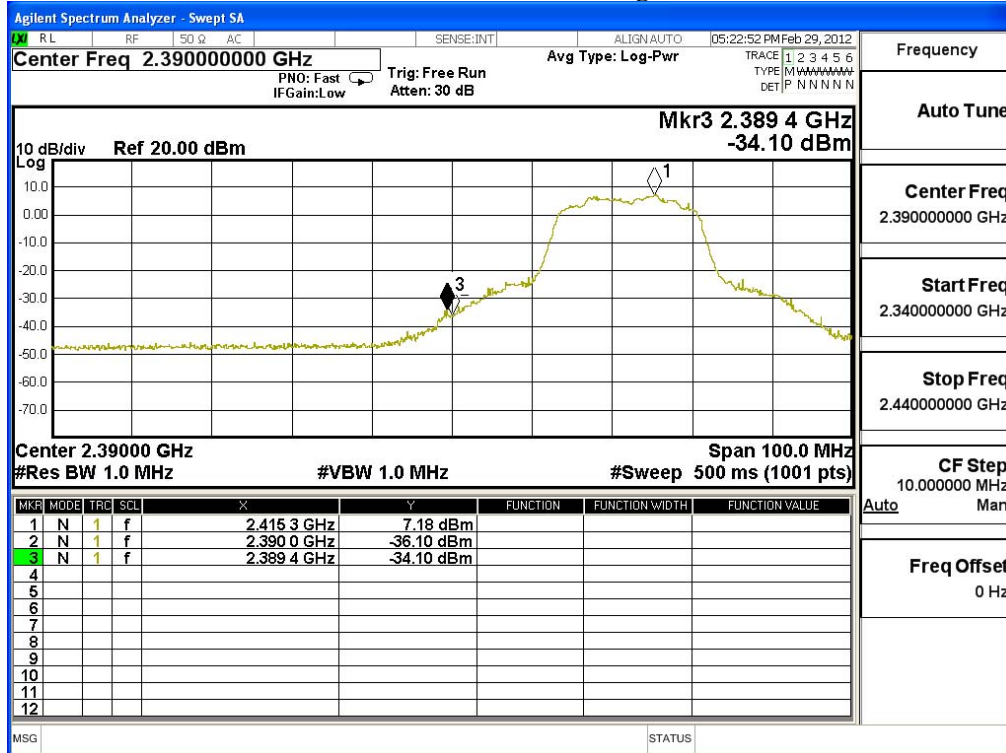
### Peak Detector of conducted Band Edge Delta-Chain A



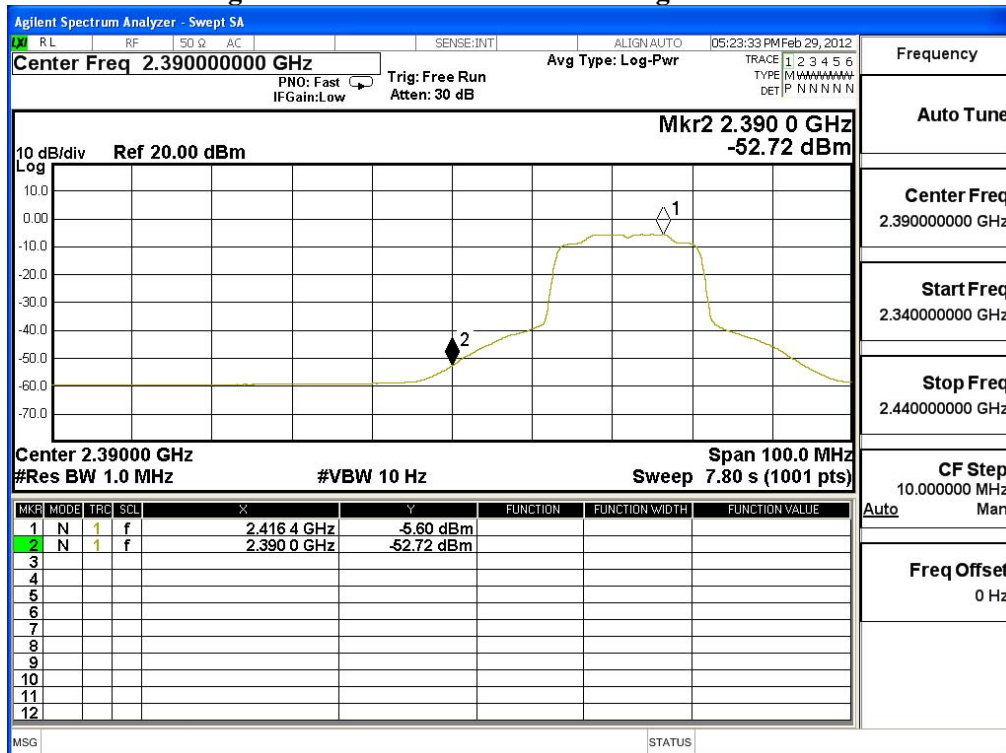
### Average Detector of conducted Band Edge Delta-Chain A



### Peak Detector of conducted Band Edge Delta-Chain B



### Average Detector of conducted Band Edge Delta-Chain B



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit - 802.11n-20BW\_14.4Mbps(2.4G Band)

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	71.41	103.429	Peak
Horizontal	2462	32.019	58.23	90.249	Average
Vertical	2462	31.29	68.1	99.39	Peak
Vertical	2462	31.29	55.33	86.62	Average

Note: 1:Spectrum Analyzer setting:

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

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

**Band Edge Test Data (Chain A)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2485.1	103.429	41.11	62.319	74.000	Peak
Horizontal	2483.5	90.249	47.32	42.929	54.000	Average
Vertical	2485.1	99.39	41.11	58.28	74.000	Peak
Vertical	2483.5	86.62	47.32	39.3	54.000	Average

**Band Edge Test Data (Chain B)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2483.5	103.429	43.44	59.989	74.000	Peak
Horizontal	2483.5	90.249	48.23	42.019	54.000	Average
Vertical	2483.5	99.39	43.44	55.95	74.000	Peak
Vertical	2483.5	86.62	48.23	38.39	54.000	Average

Note:

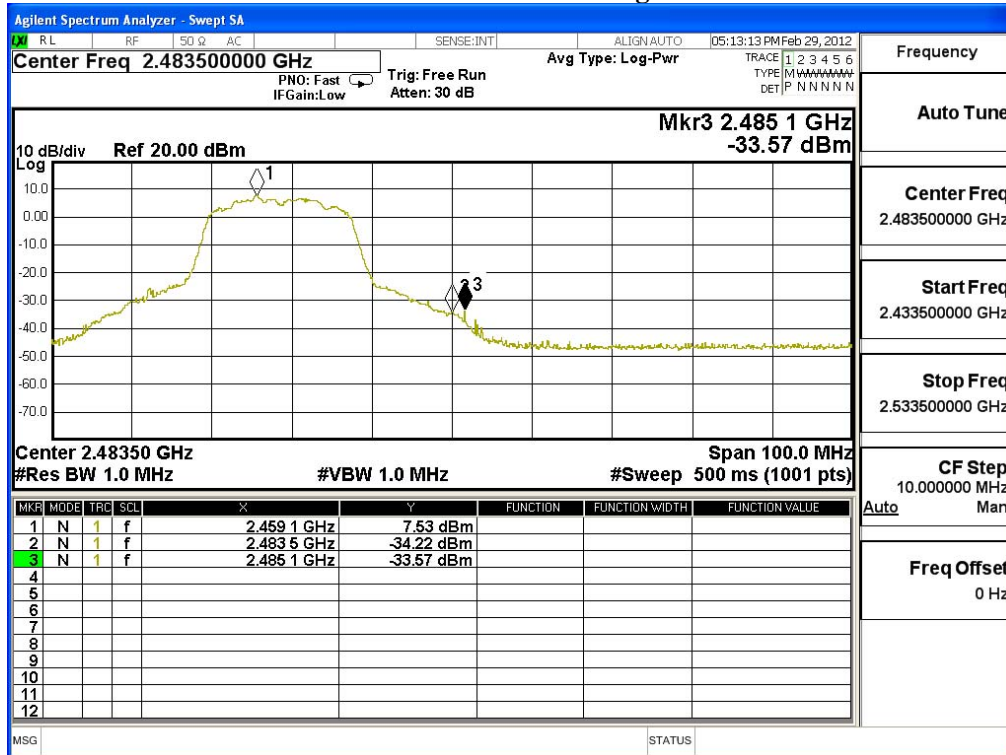
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

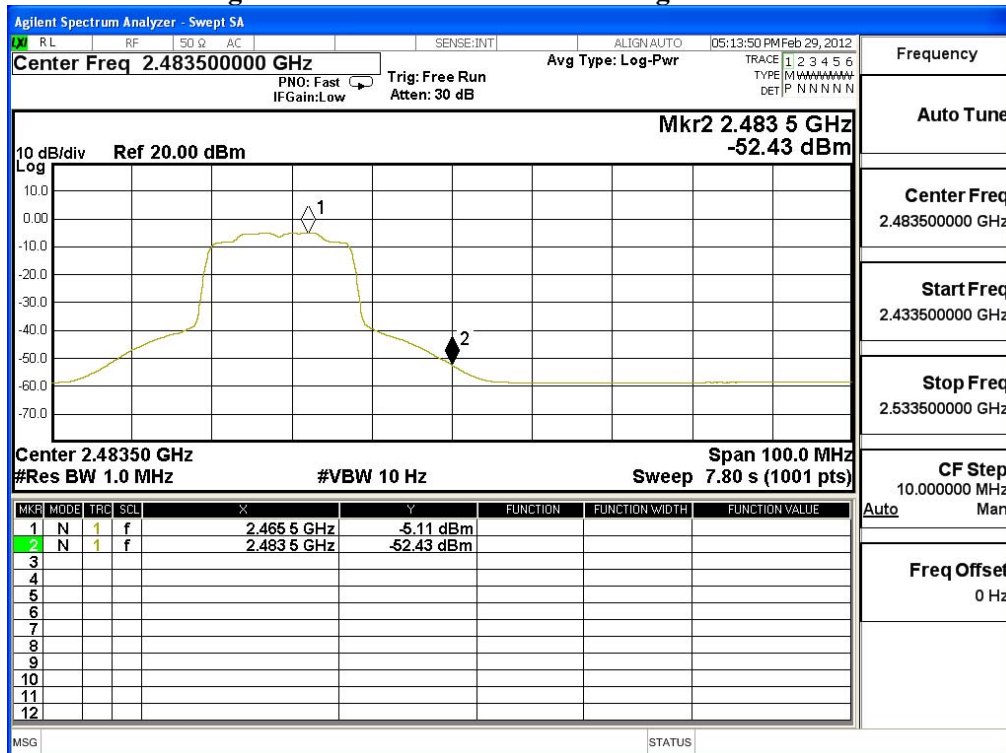
F = Fundamental field Strength (Peak or Average)

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

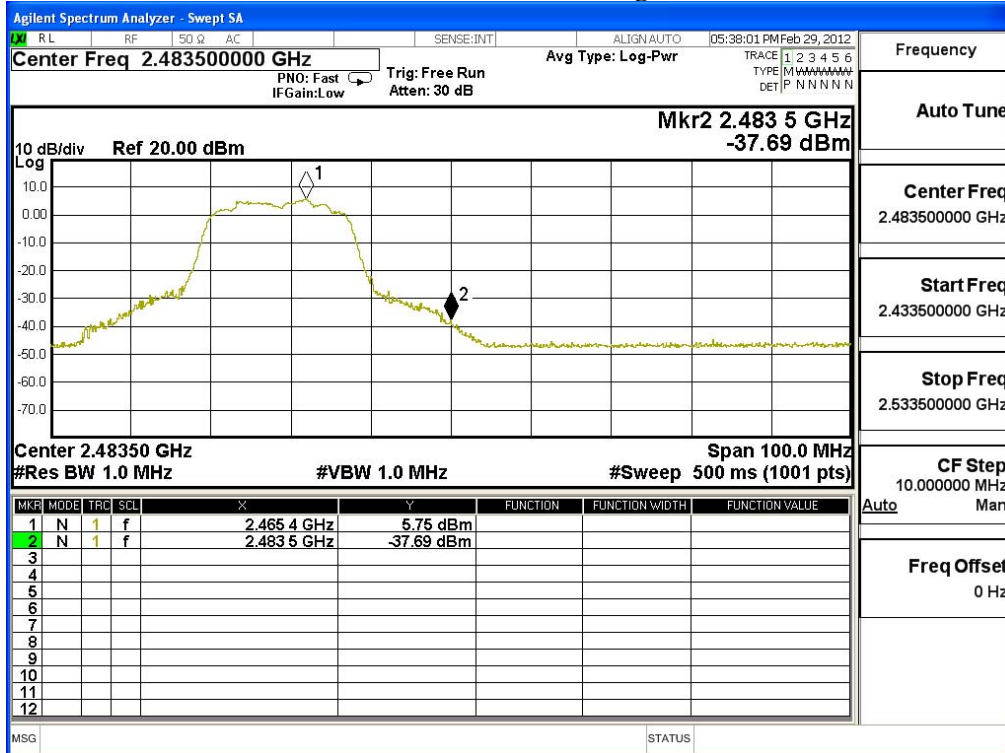
### Peak Detector of conducted Band Edge Delta-Chain A



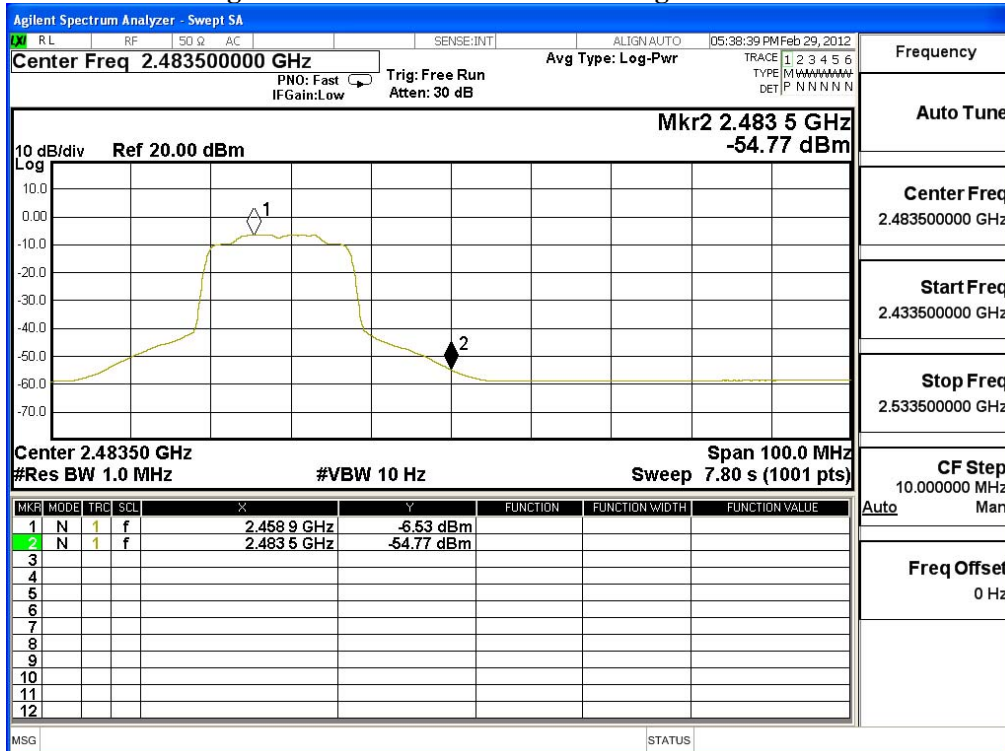
### Average Detector of conducted Band Edge Delta-Chain A



### Peak Detector of conducted Band Edge Delta-Chain B



### Average Detector of conducted Band Edge Delta-Chain B





Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 5: Transmit - 802.11n-40BW\_30Mbps(2.4G Band)

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2422	31.715	70.54	102.255	Peak
Horizontal	2422	31.715	55.57	87.285	Average
Vertical	2422	31.017	68.78	99.797	Peak
Vertical	2422	31.017	52.99	84.007	Average

Note: 1:Spectrum Analyzer setting:

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

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

**Band Edge Test Data (Chain A)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2390	102.255	31.24	71.015	74.000	Peak
Horizontal	2390	87.285	35.04	52.245	54.000	Average
Vertical	2390	99.797	31.24	68.557	74.000	Peak
Vertical	2390	84.007	35.04	48.967	54.000	Average

**Band Edge Test Data (Chain B)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2390	102.255	31.51	70.745	74.000	Peak
Horizontal	2390	87.285	35.088	52.197	54.000	Average
Vertical	2390	99.797	31.51	68.287	74.000	Peak
Vertical	2390	84.007	35.088	48.919	54.000	Average

Note:

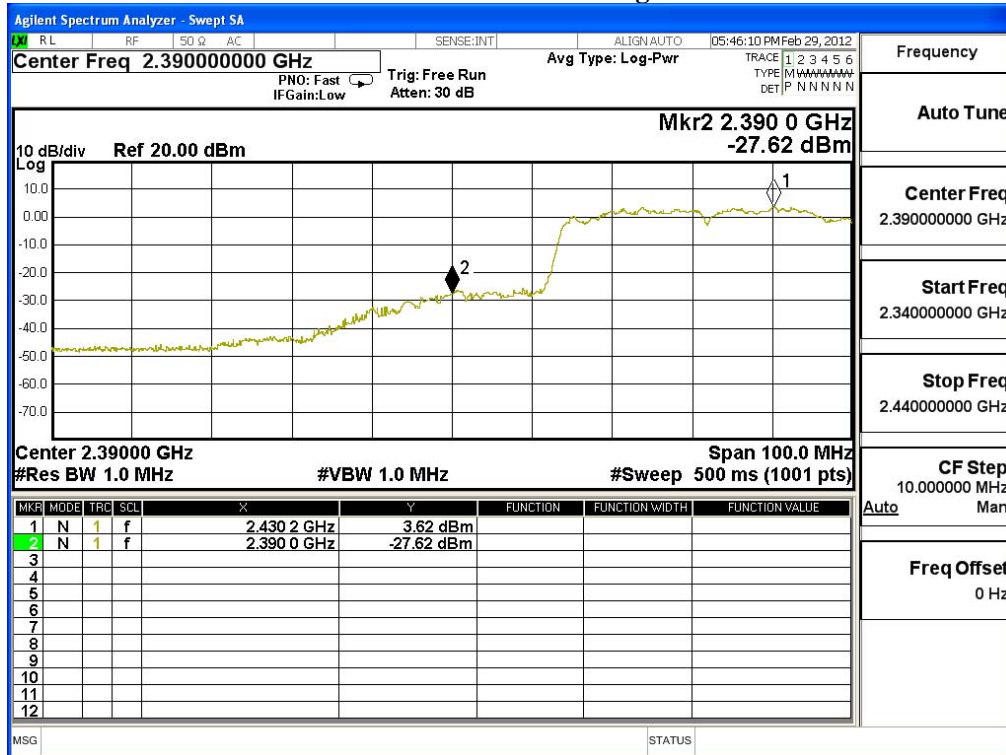
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F -  $\Delta$

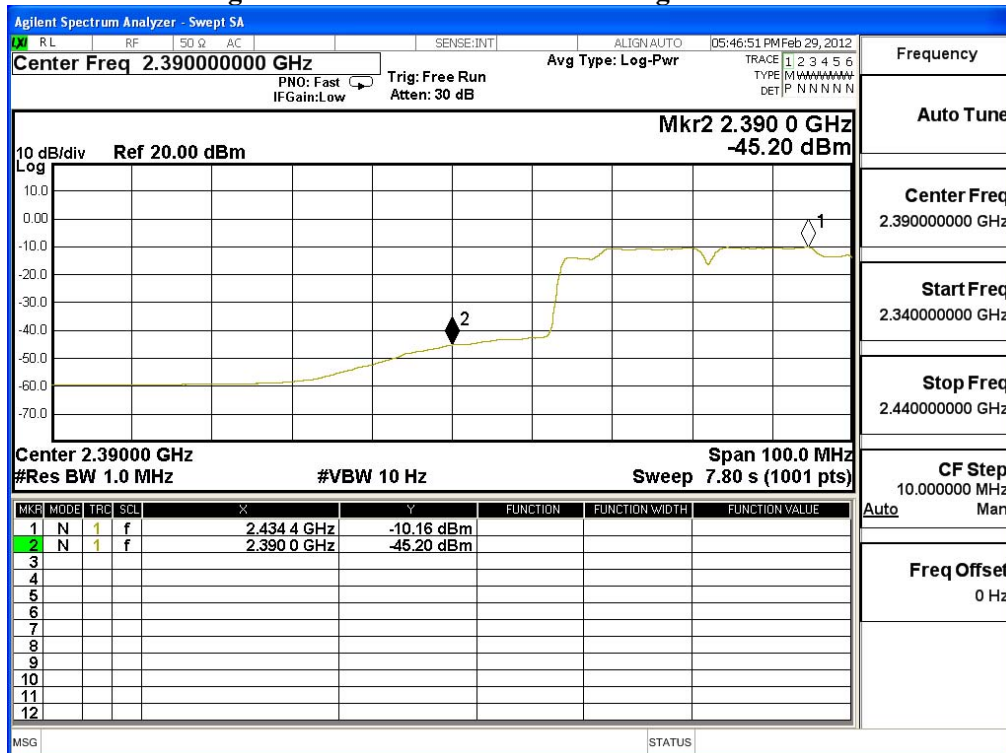
F = Fundamental field Strength (Peak or Average)

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

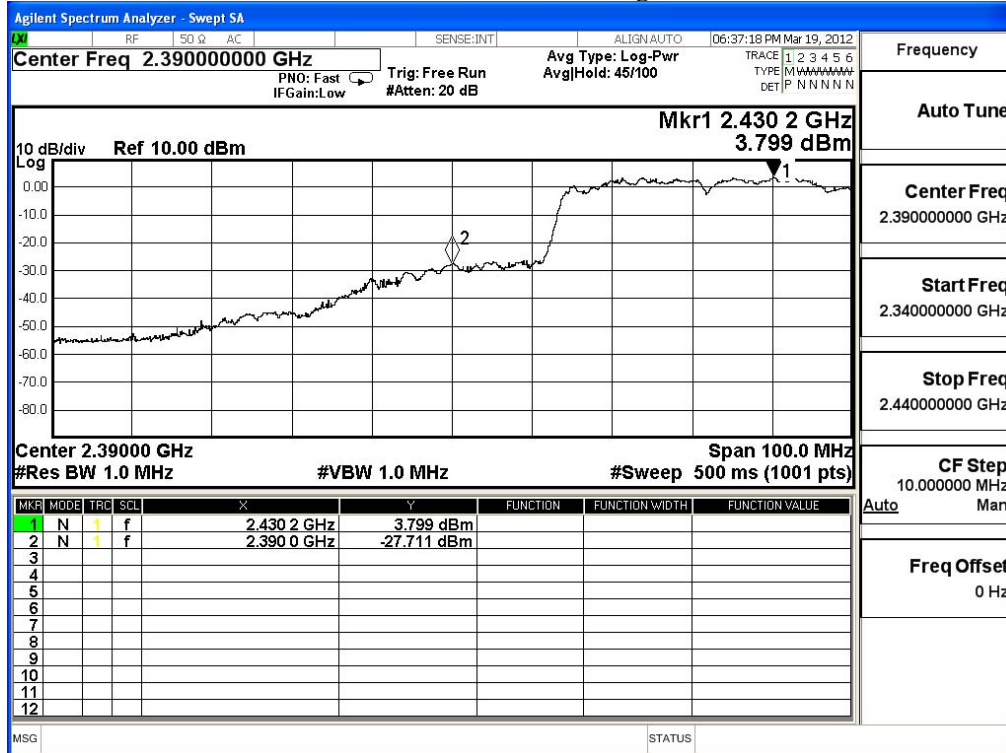
### Peak Detector of conducted Band Edge Delta-Chain A



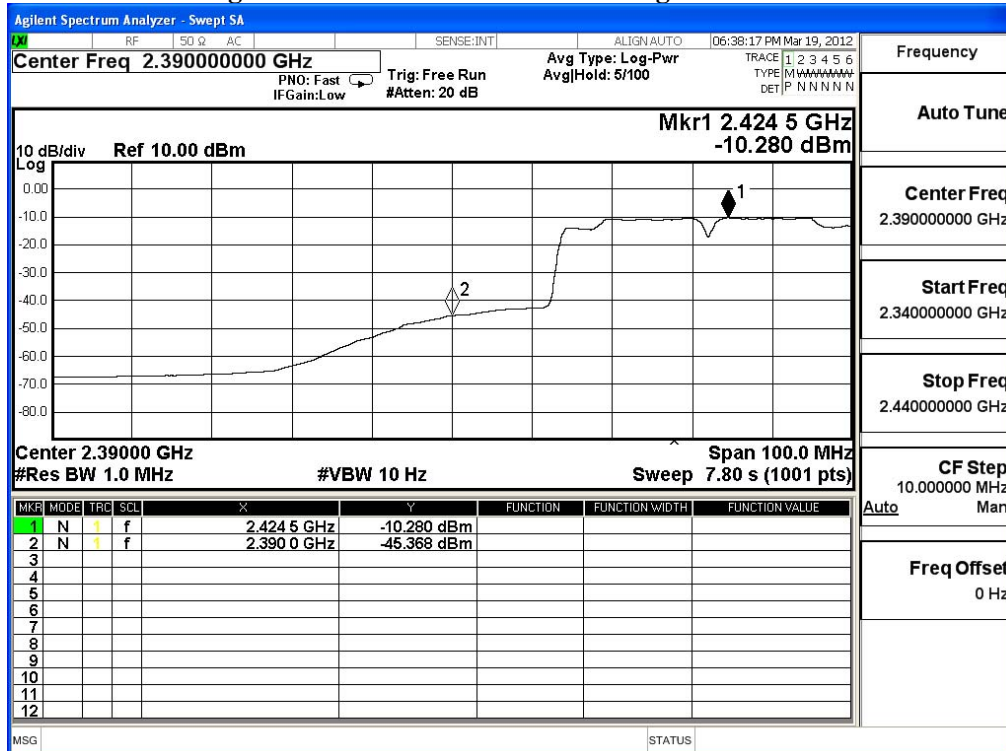
### Average Detector of conducted Band Edge Delta-Chain A



### Peak Detector of conducted Band Edge Delta-Chain B



### Average Detector of conducted Band Edge Delta-Chain B



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 5: Transmit - 802.11n-40BW\_30Mbps(2.4G Band)

**Fundamental Filed Strength**

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2452	31.944	71.4	103.344	Peak
Horizontal	2452	31.944	55.13	87.074	Average
Vertical	2452	31.222	65.6	96.822	Peak
Vertical	2452	31.222	52.22	83.442	Average

Note: 1:Spectrum Analyzer setting:

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

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

**Band Edge Test Data (Chain A)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2483.5	103.344	33.485	69.859	74.000	Peak
Horizontal	2483.5	87.074	33.265	53.809	54.000	Average
Vertical	2483.5	96.822	33.485	63.337	74.000	Peak
Vertical	2483.5	83.442	33.265	50.177	54.000	Average

**Band Edge Test Data (Chain B)**

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	$\Delta$ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2483.5	103.344	31.89	71.454	74.000	Peak
Horizontal	2483.5	87.074	34.11	52.964	54.000	Average
Vertical	2483.5	96.822	31.89	64.932	74.000	Peak
Vertical	2483.5	83.442	34.11	49.332	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:

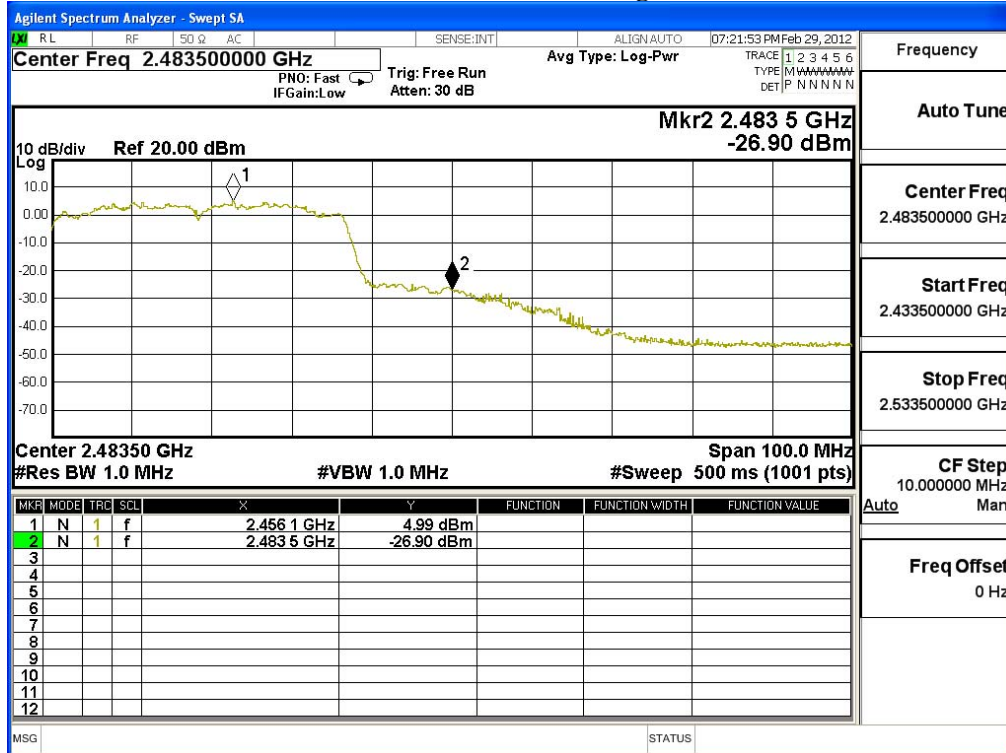
Band Edge field Strength = F -  $\Delta$

F = Fundamental field Strength (Peak or Average)

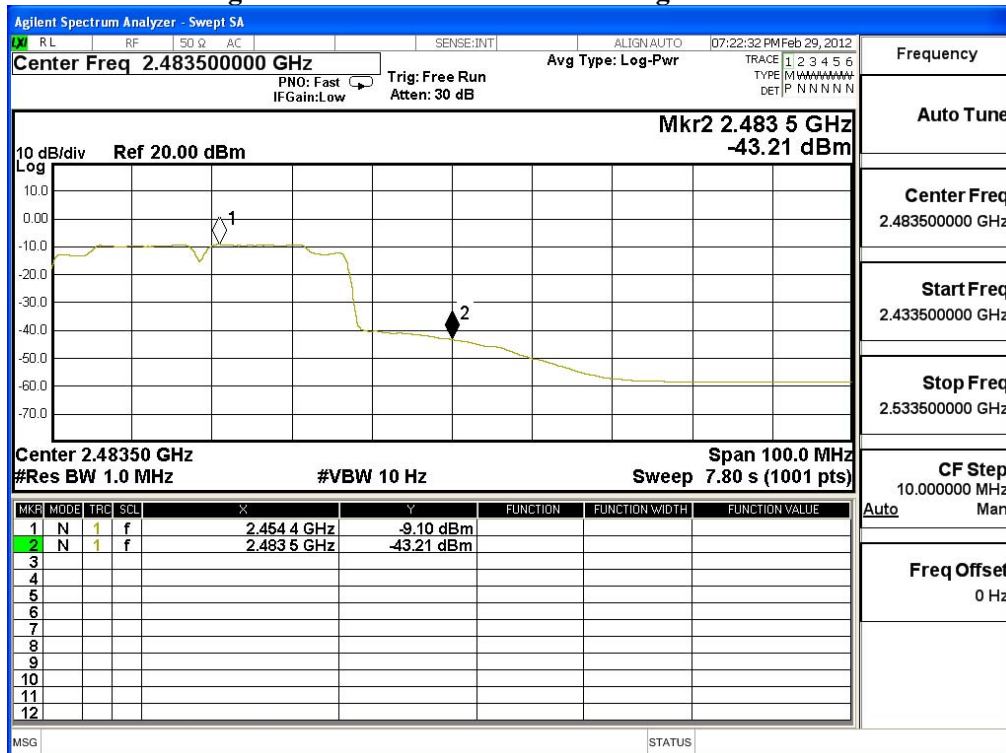
$\Delta$  = Conducted Band Edge Delta (Peak or Average)



### Peak Detector of conducted Band Edge Delta-Chain B

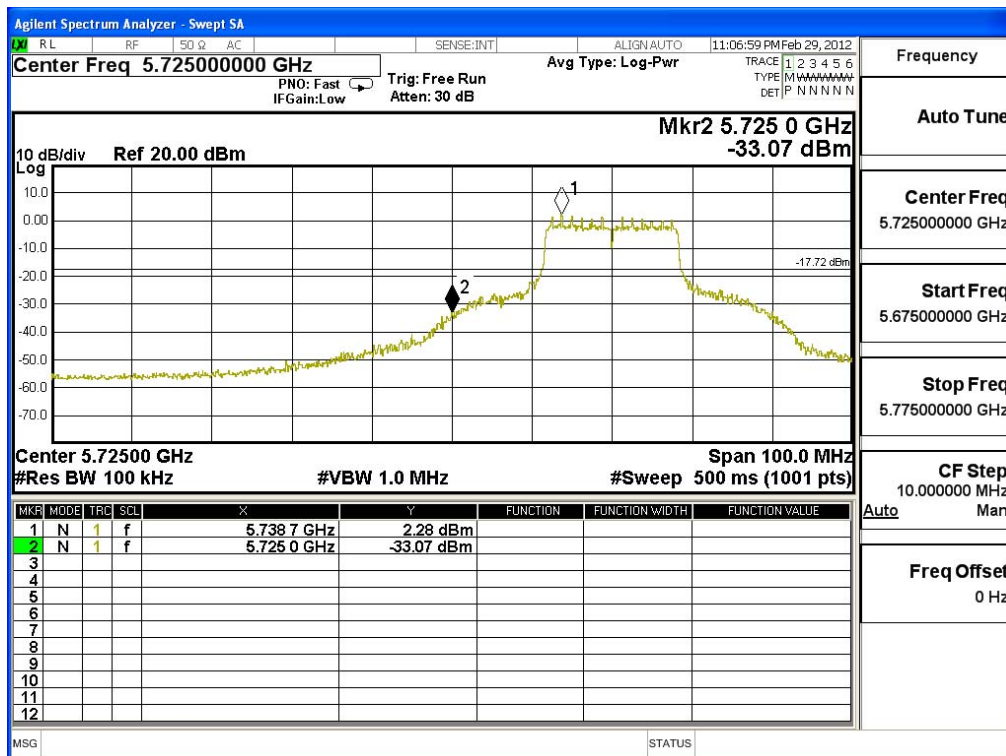


### Average Detector of conducted Band Edge Delta-Chain B



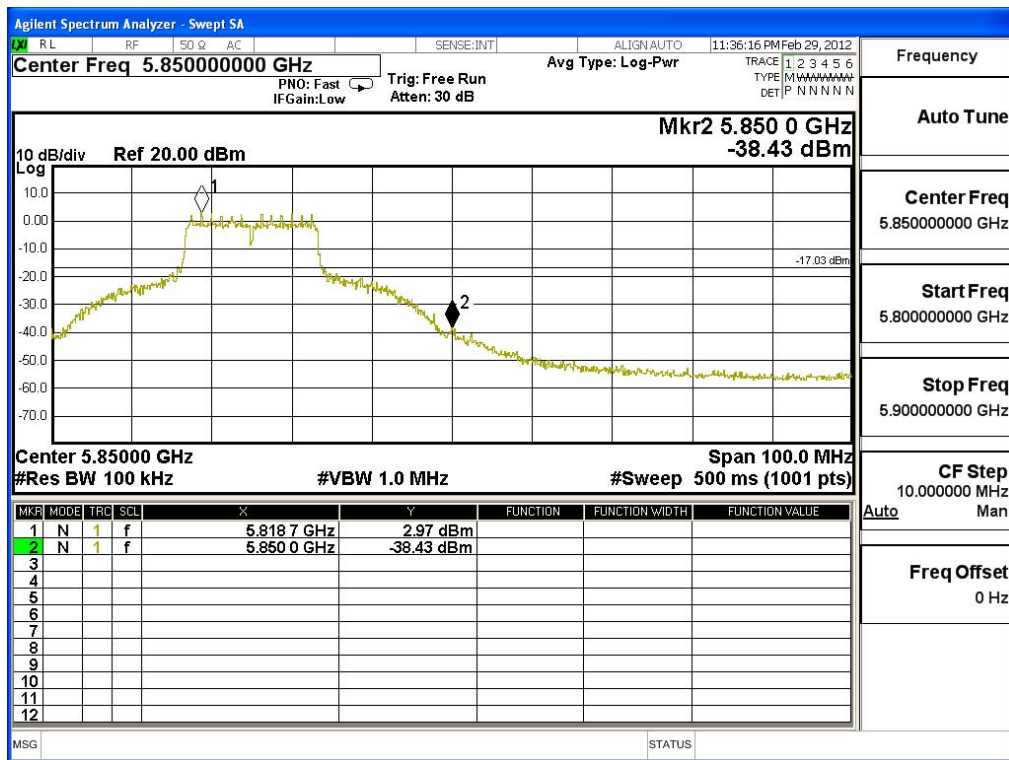
Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5745	35.35	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5825	41.40	>20	PASS

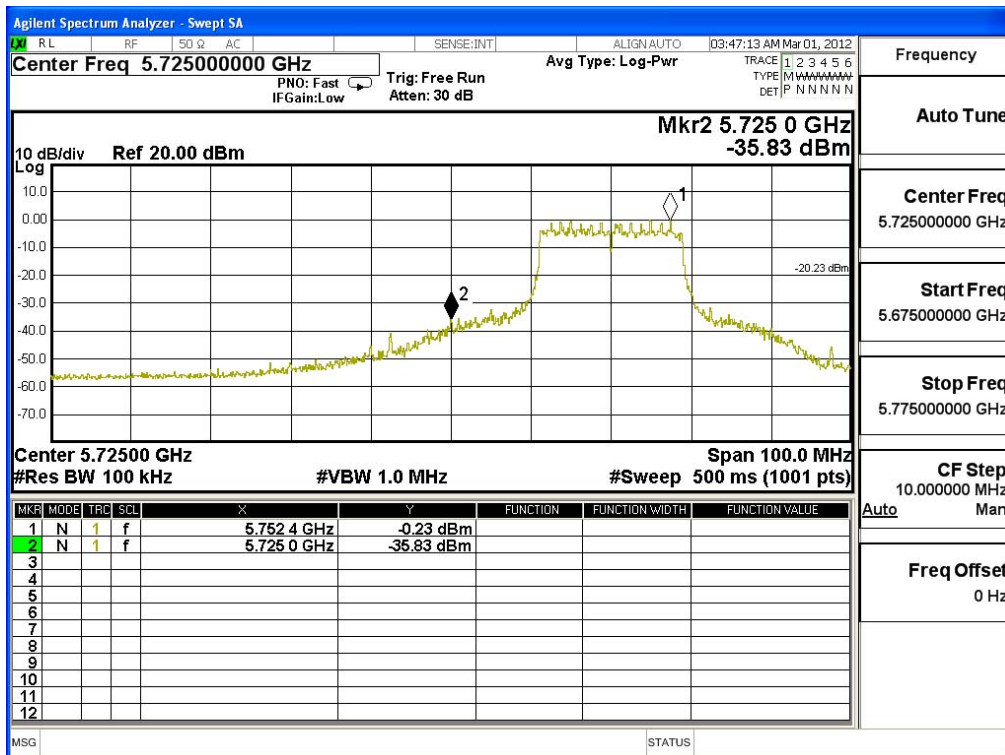




Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 6: Transmit - 802.11n-20BW\_14.4Mbps(5G Band)

**Chain A**

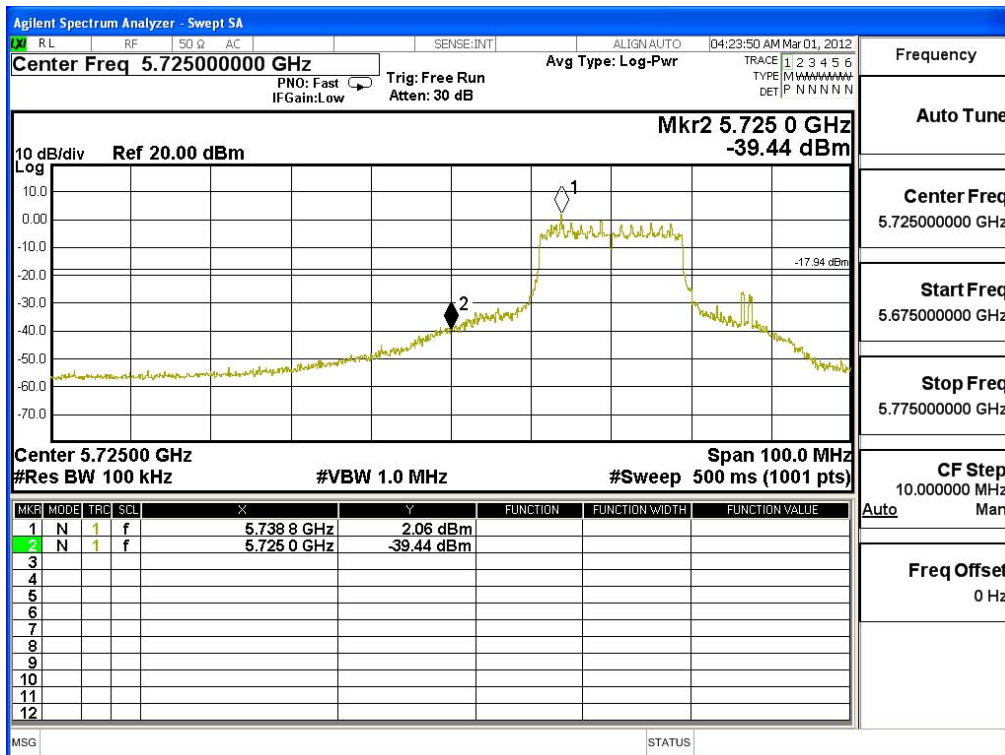
Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5745	35.60	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 6: Transmit - 802.11n-20BW\_14.4Mbps(5G Band)

**Chain B**

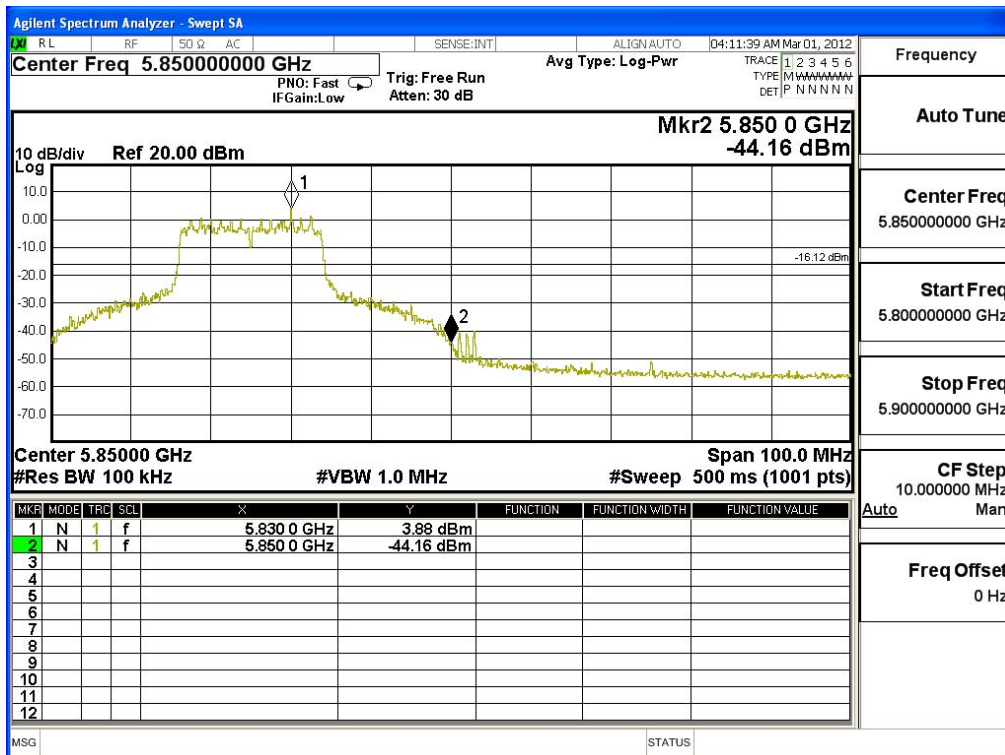
Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5745	41.50	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 6: Transmit - 802.11n-20BW\_14.4Mbps(5G Band)

**Chain A**

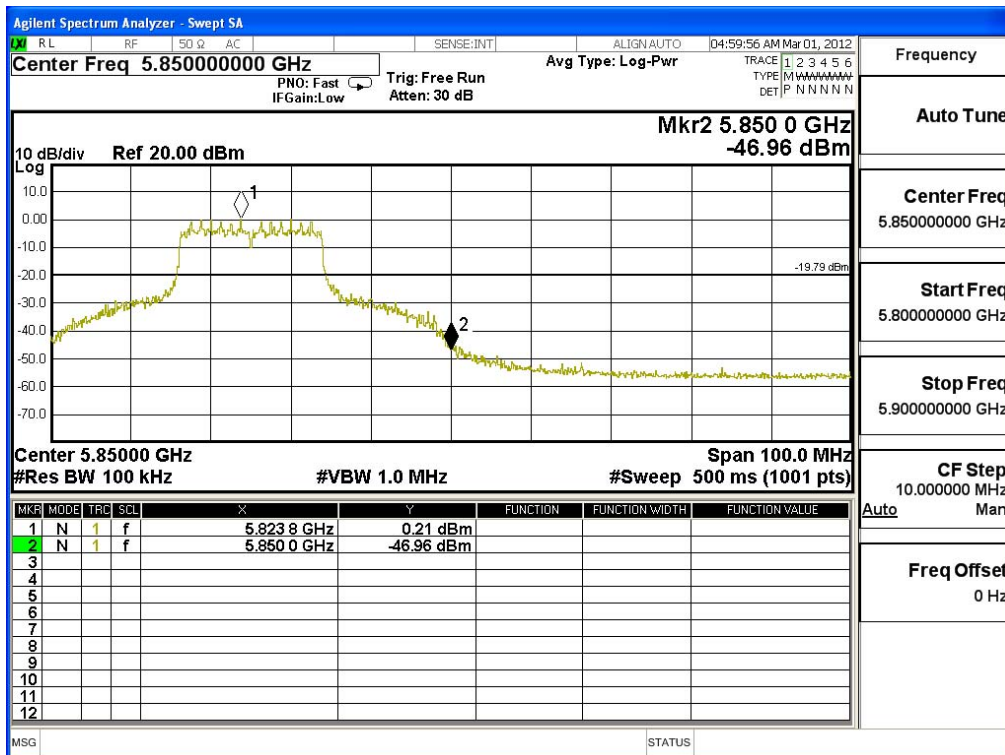
Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5825	48.04	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 6: Transmit - 802.11n-20BW\_14.4Mbps(5G Band)

**Chain B**

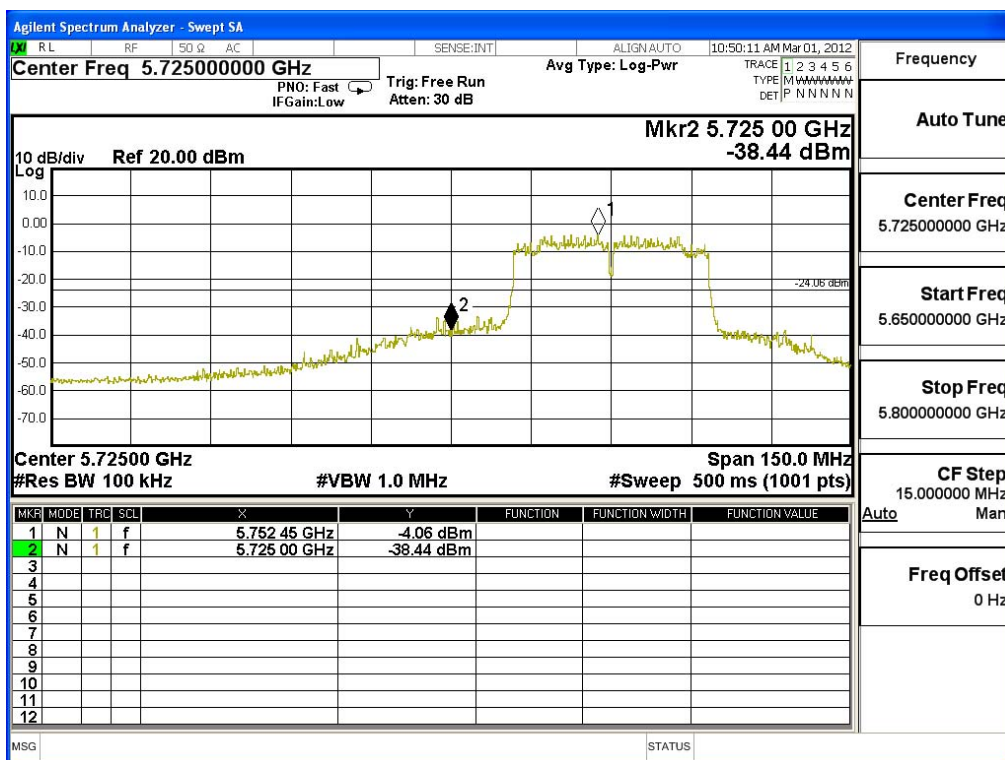
Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5825	47.17	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 7: Transmit - 802.11n-40BW\_30Mbps(5G Band)

**Chain A**

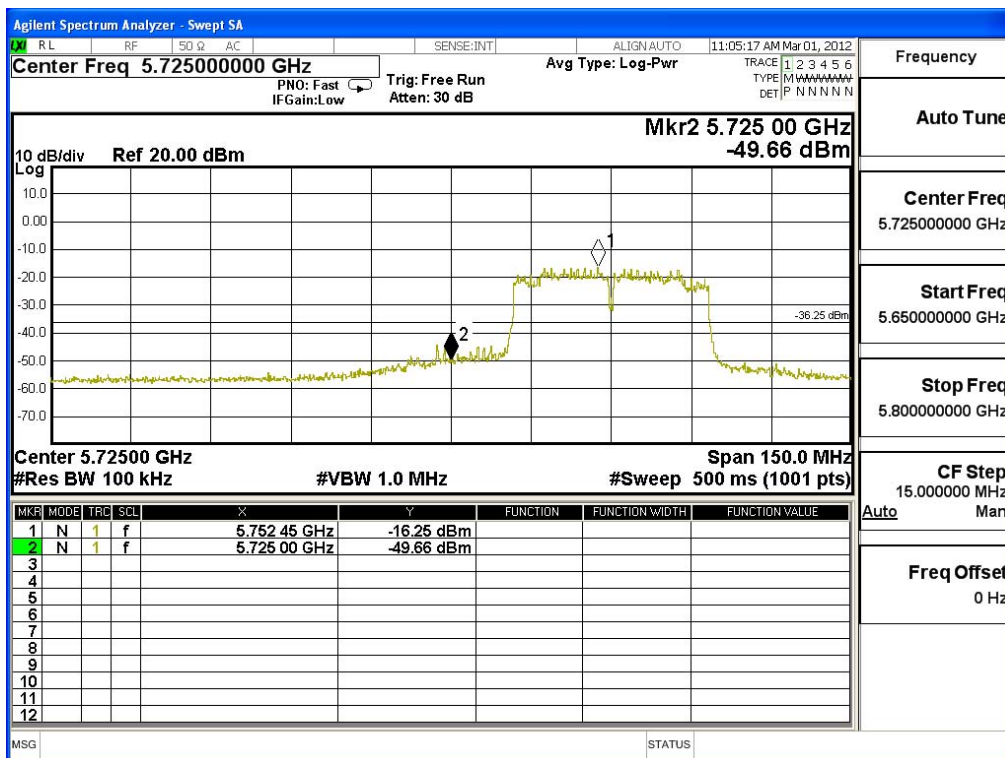
Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5755	34.38	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 7: Transmit - 802.11n-40BW\_30Mbps(5G Band)

**Chain B**

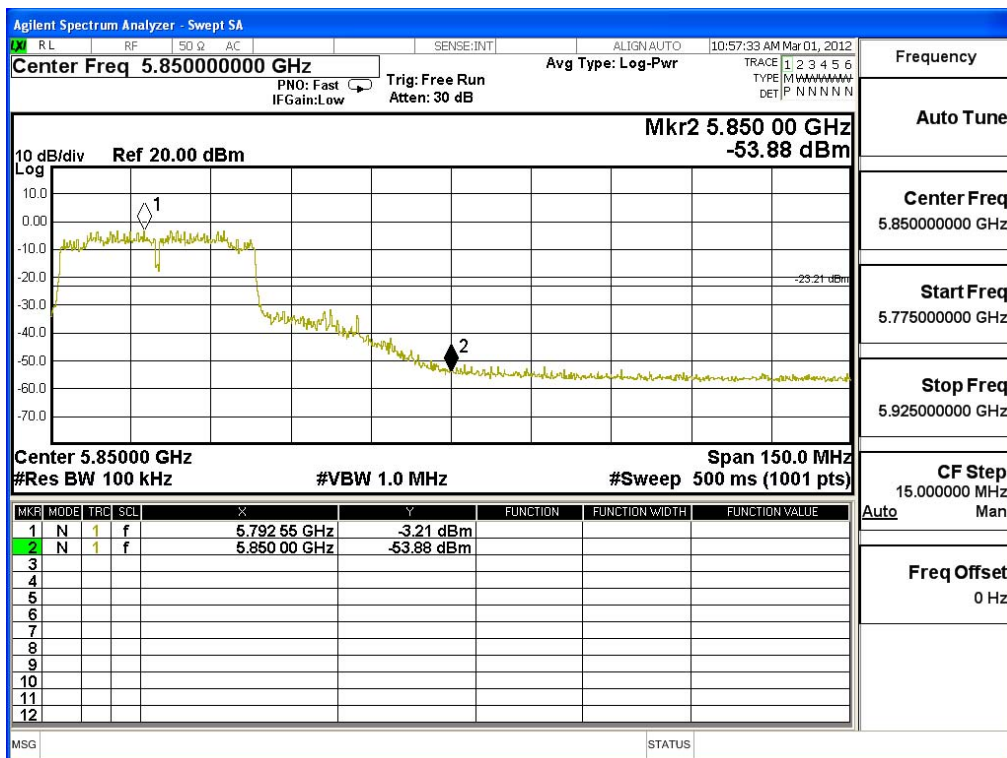
Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5755	33.41	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 7: Transmit - 802.11n-40BW\_30Mbps(5G Band)

**Chain A**

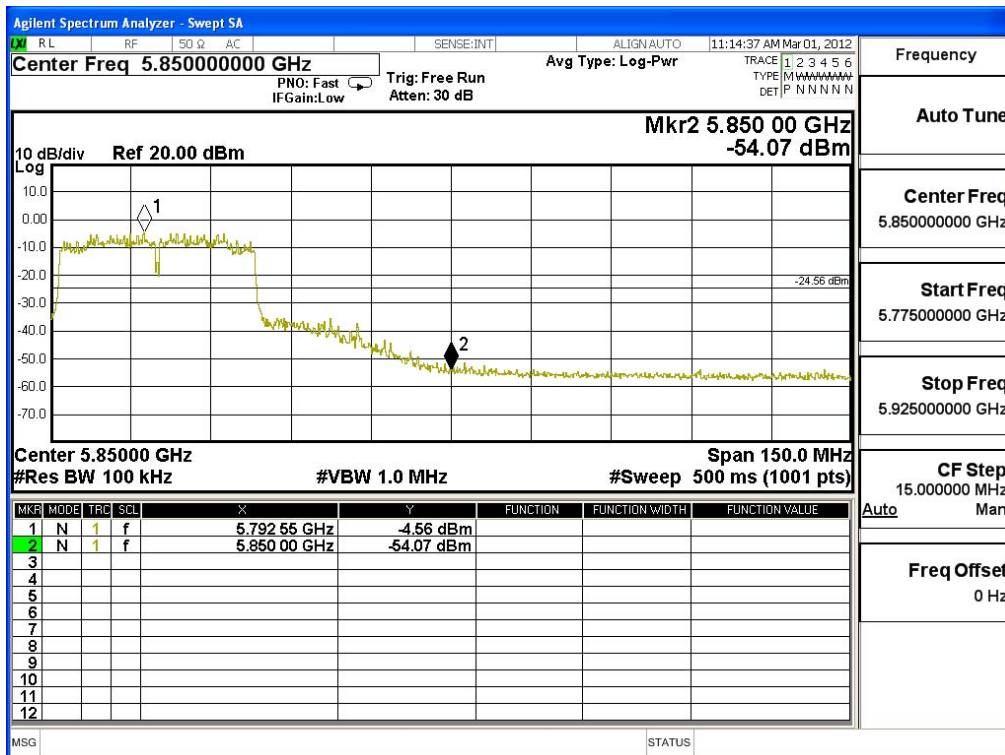
Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5795	50.67	>20	PASS



Product : Tablet PC  
 Test Item : Band Edge  
 Test Site : No.3 OATS  
 Test Mode : Mode 7: Transmit - 802.11n-40BW\_30Mbps(5G Band)

**Chain B**

Test Frequency (MHz)	Measurement Level $\Delta$ (dB)	Limit $\Delta$ (dB)	Result
5795	49.51	>20	PASS





**7. Occupied Bandwidth**

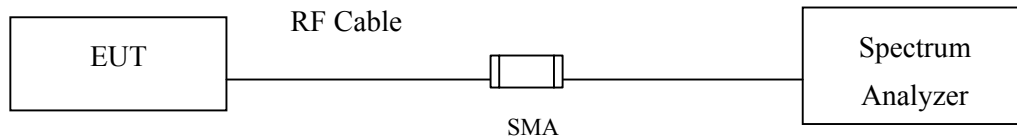
**7.1. Test Equipment**

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2011
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2011
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 Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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

**7.5. Uncertainty**

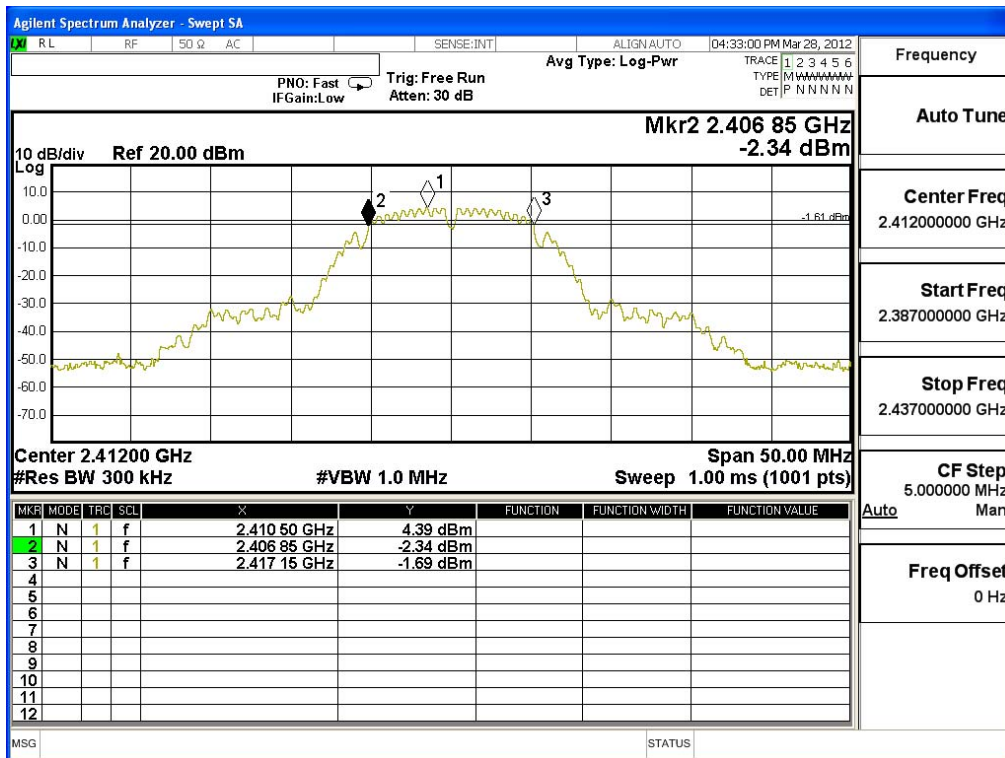
± 150Hz

**7.6. Test Result of Occupied Bandwidth**

Product : Tablet PC  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	10300	>500	Pass

**Figure Channel 1:**



Product : Tablet PC  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	10350	>500	Pass

Figure Channel 6:

