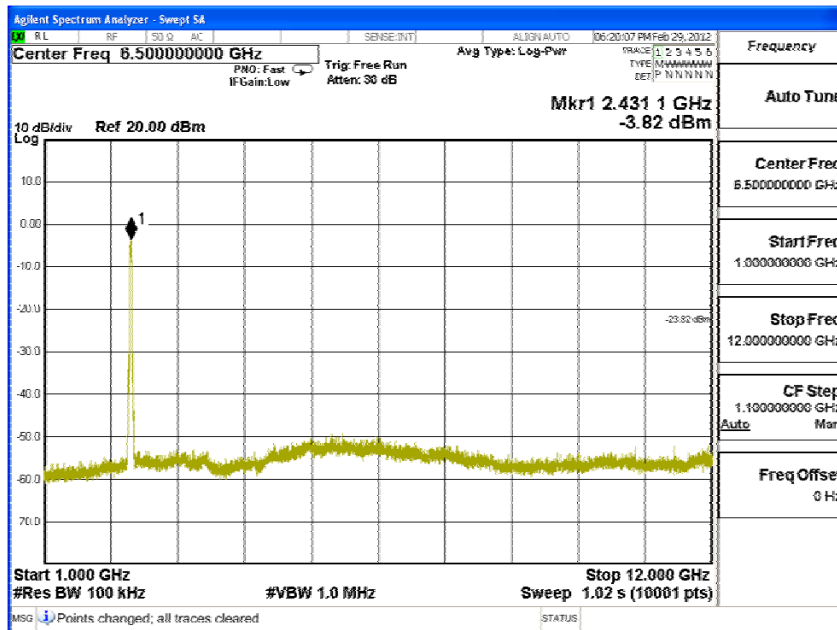
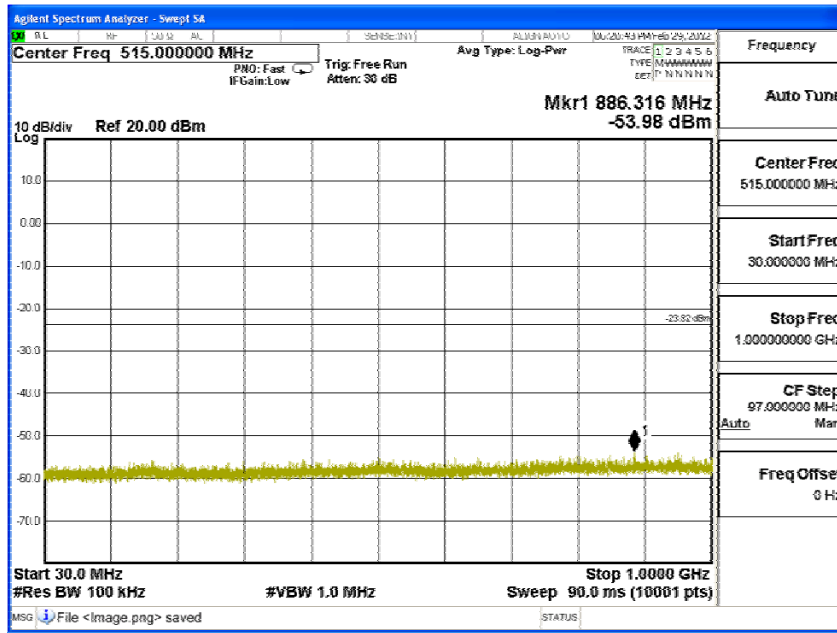
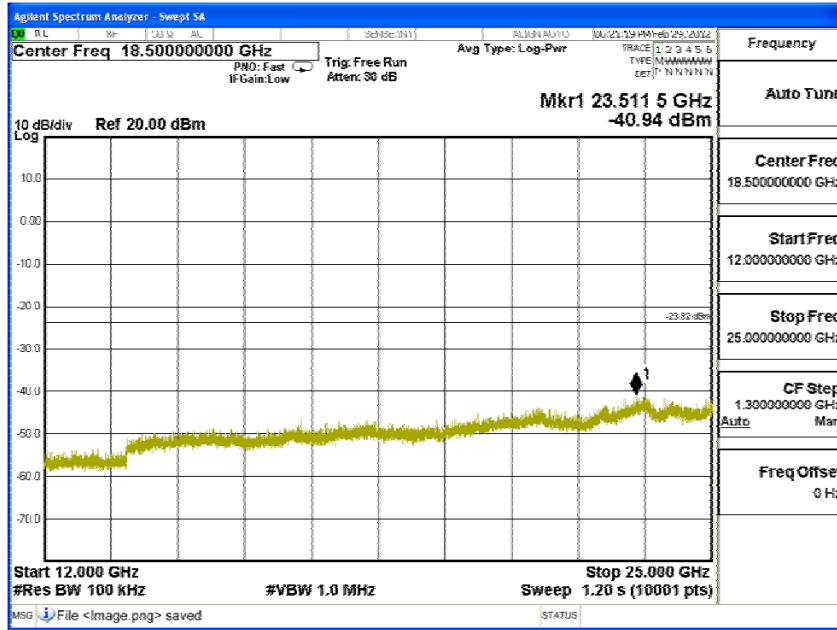
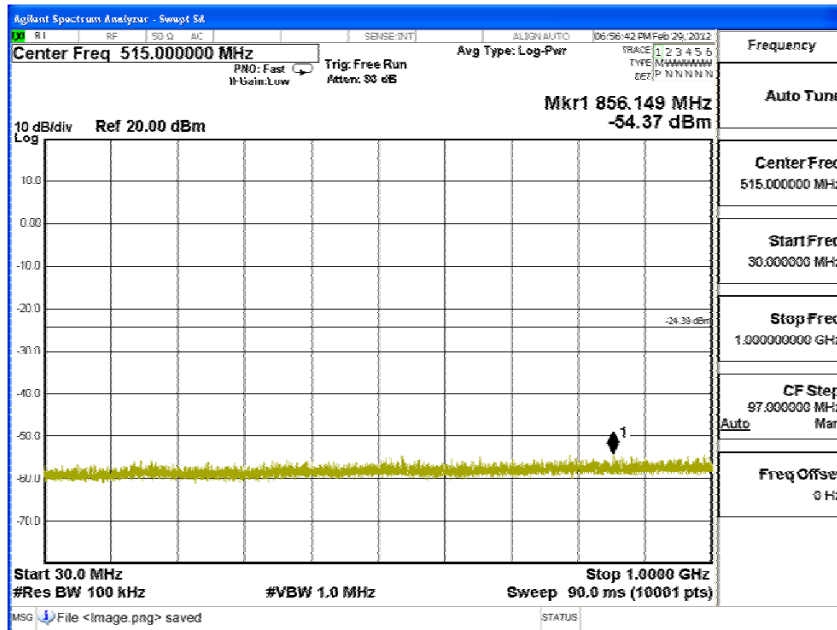


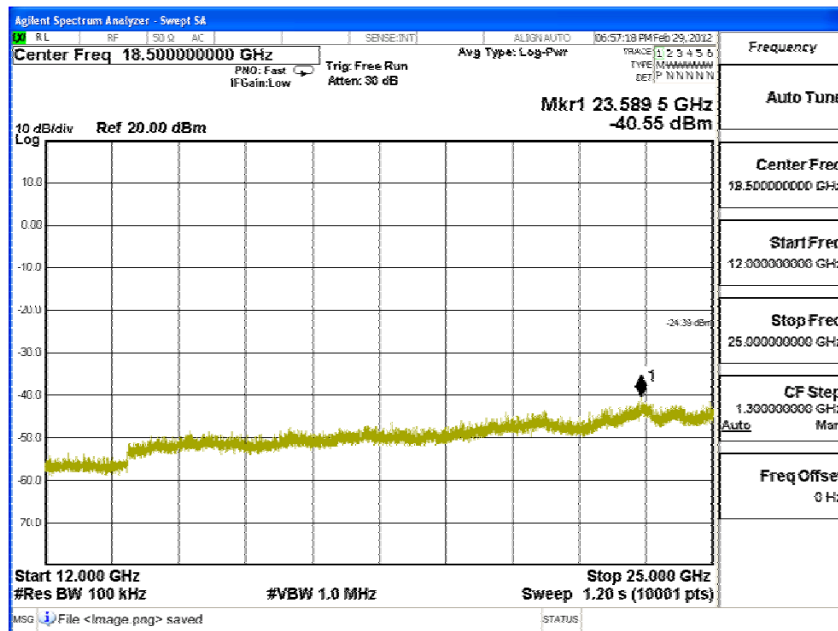
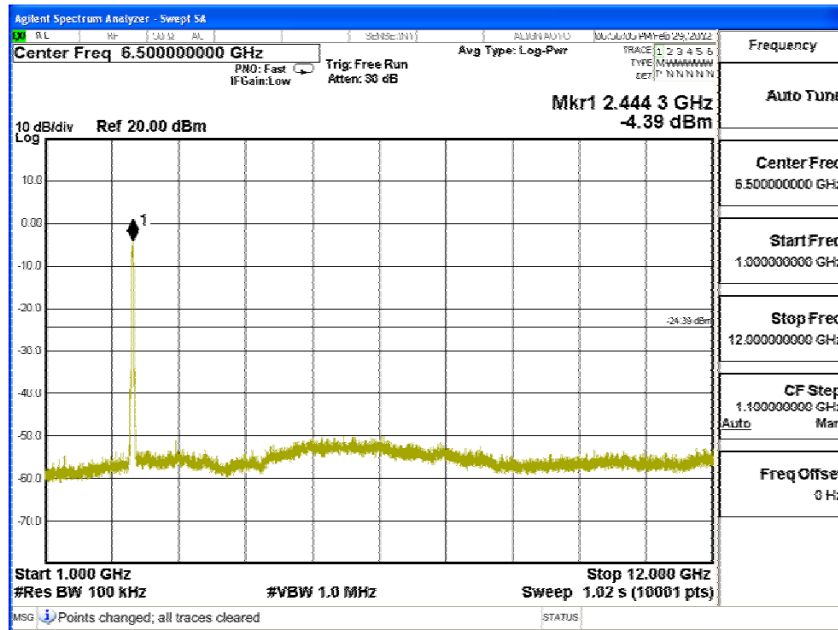
Channel 03 (2422MHz) 30MHz -25GHz-Chain B



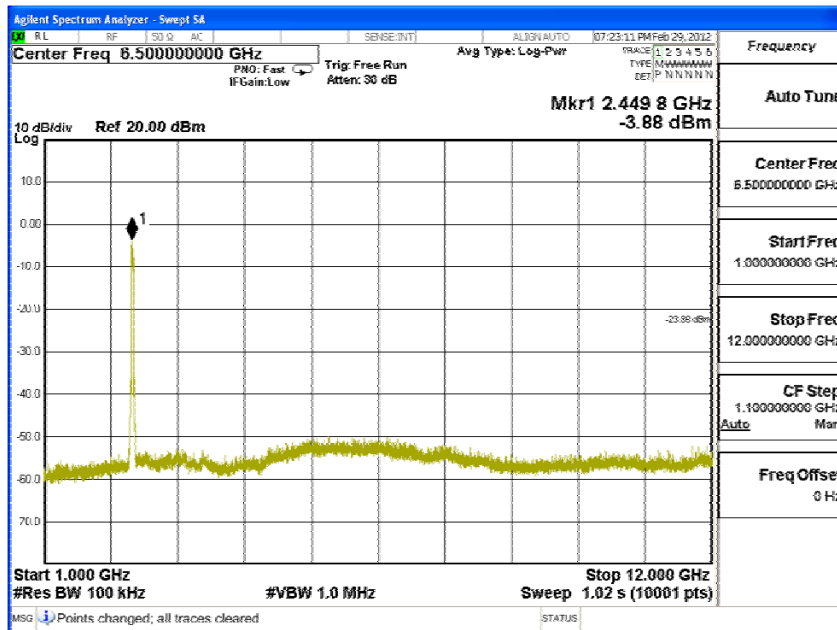
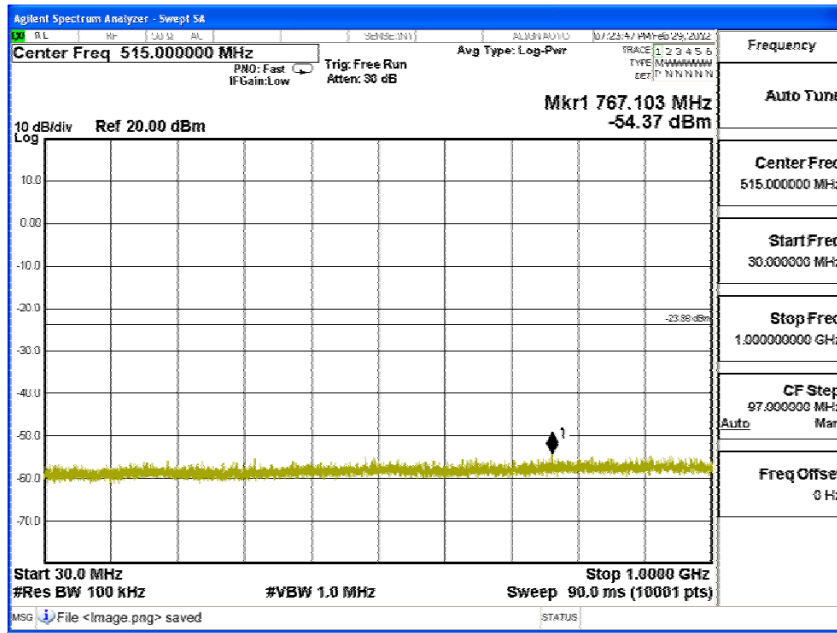


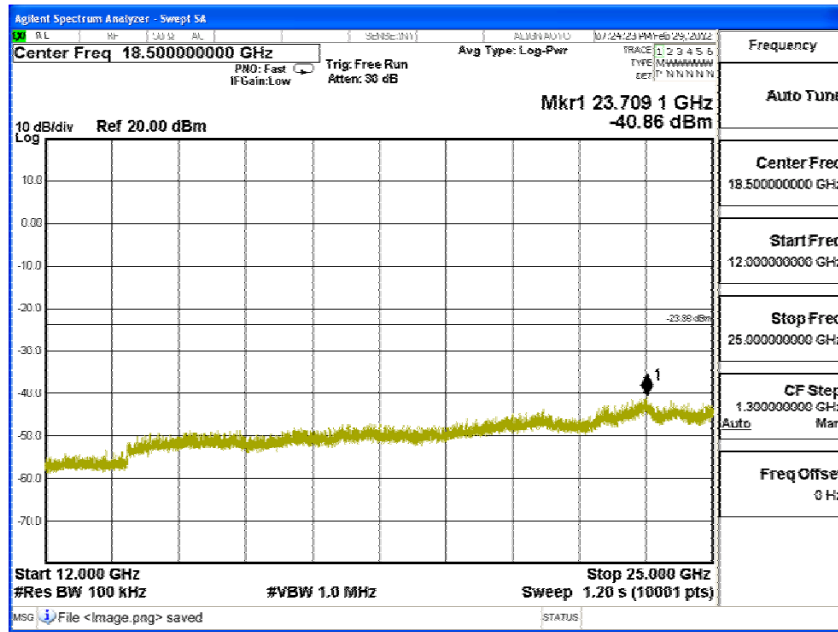
Channel 06 (2437MHz) 30MHz -25GHz-Chain B





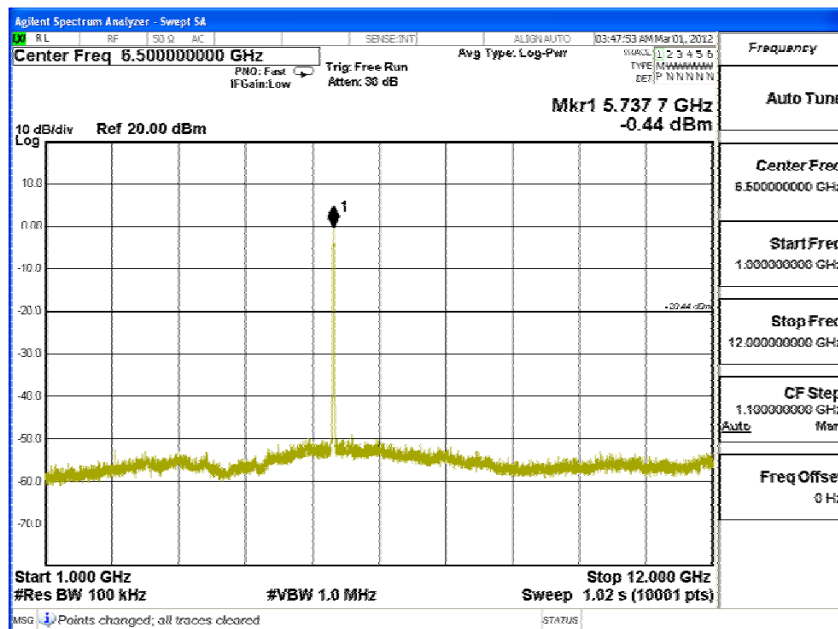
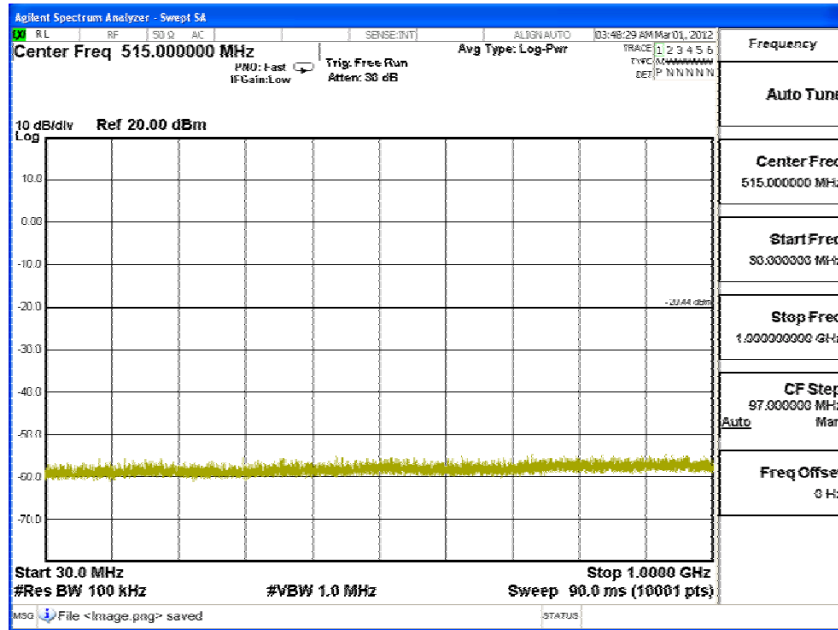
Channel 09 (2452MHz) 30MHz -25GHz-Chain B

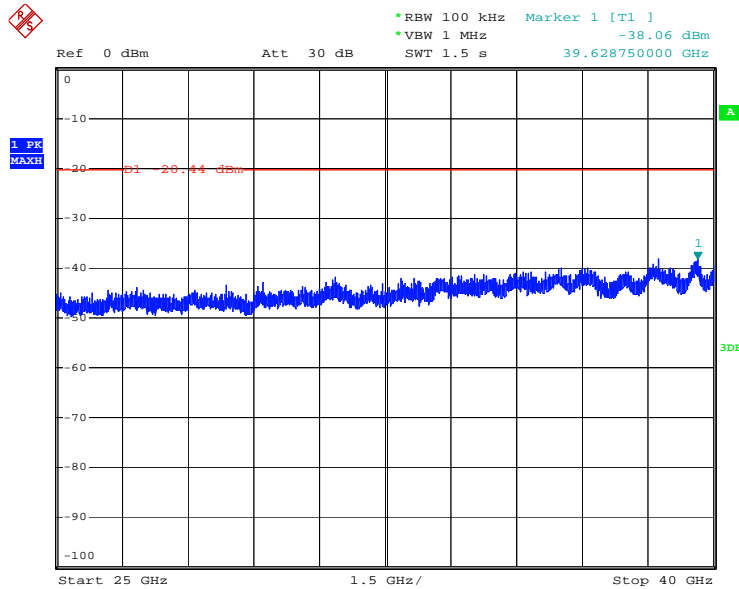
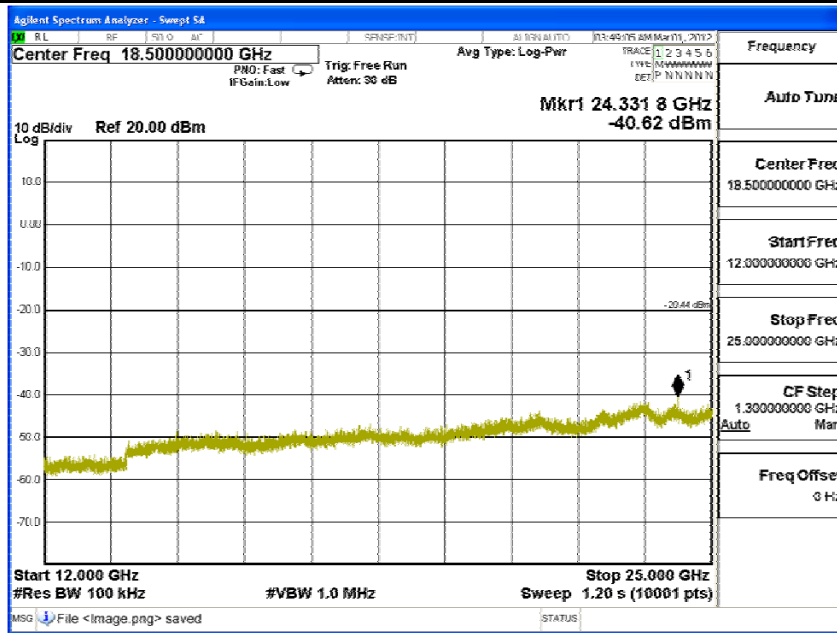




Product : Tablet PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)

Channel 149 (5745MHz) 30MHz -40GHz-Chain A

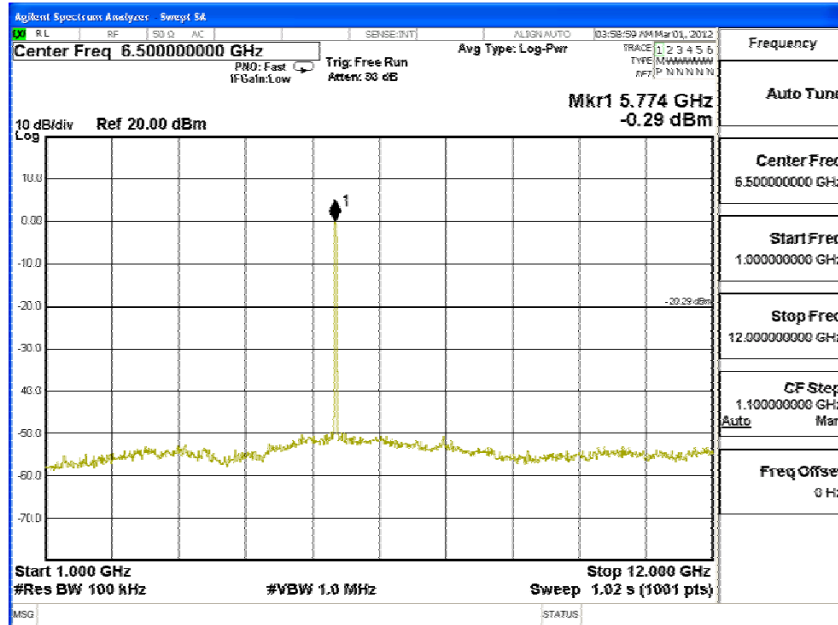
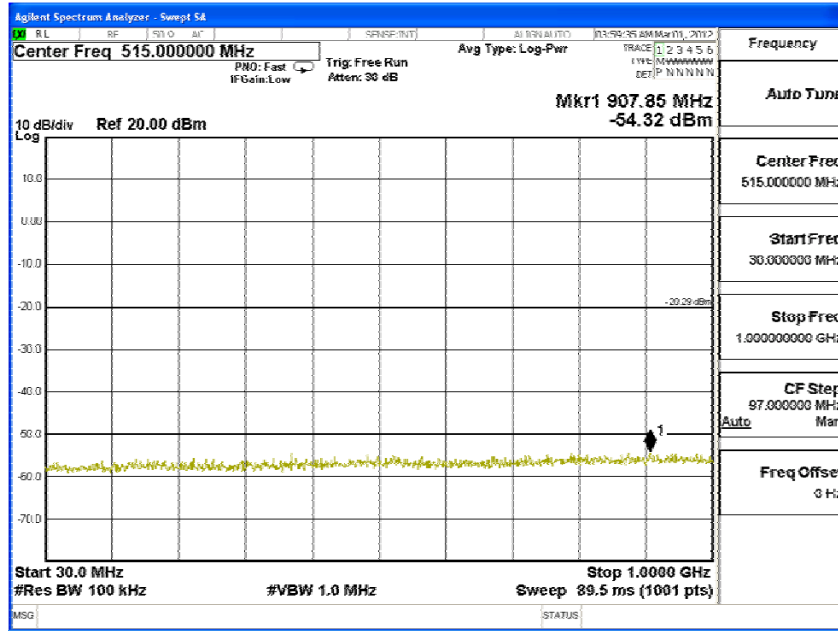


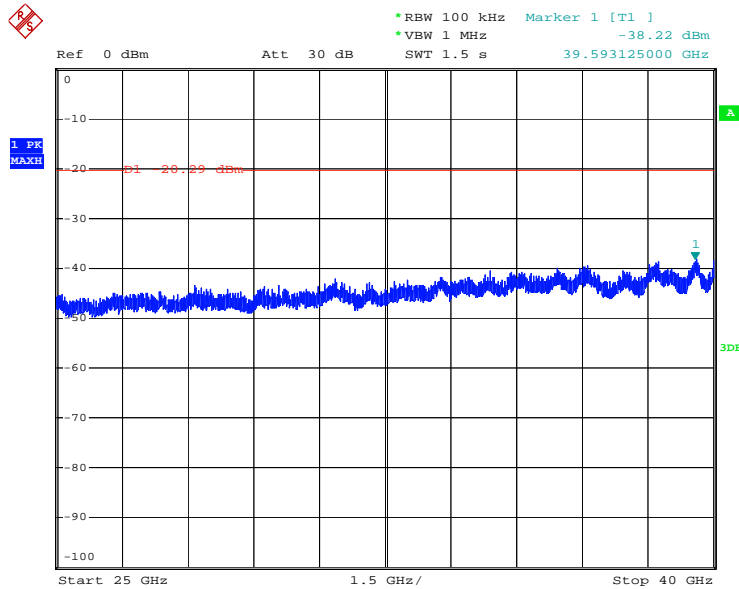
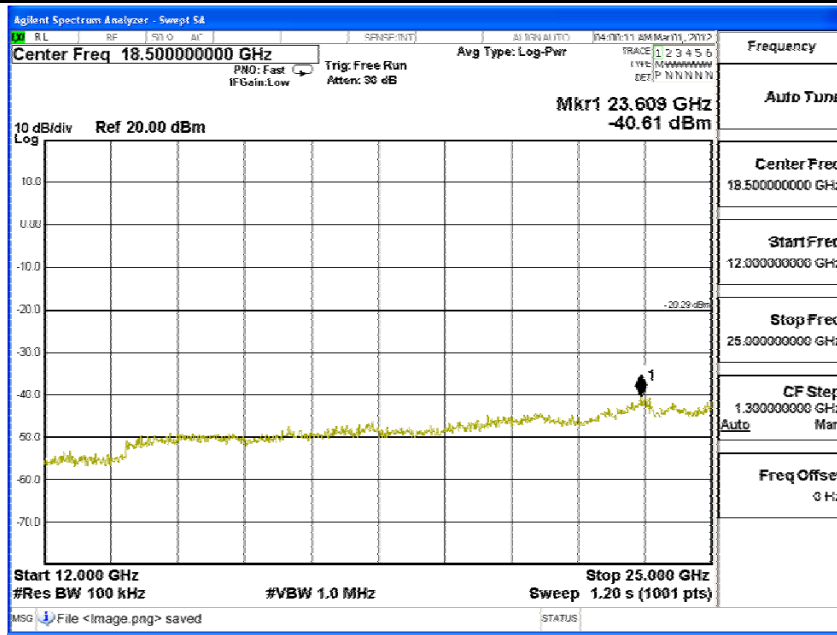


5190B-2

Date: 3.APR.2012 09:25:16

Channel 157 (5785MHz) 30MHz -40GHz-Chain A

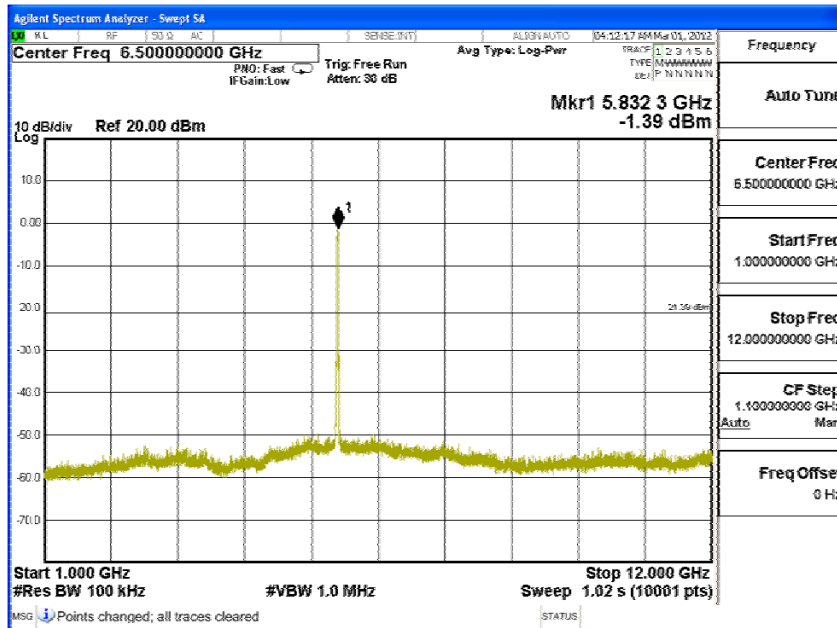
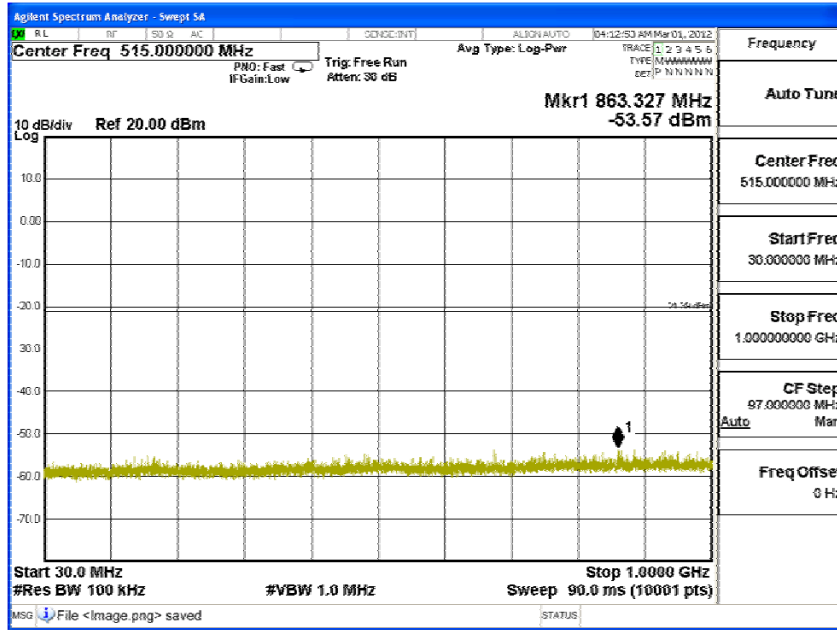


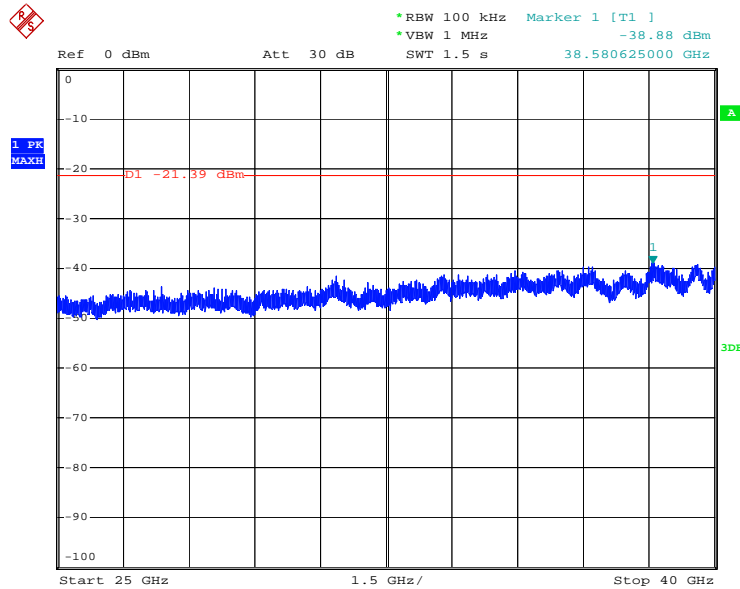
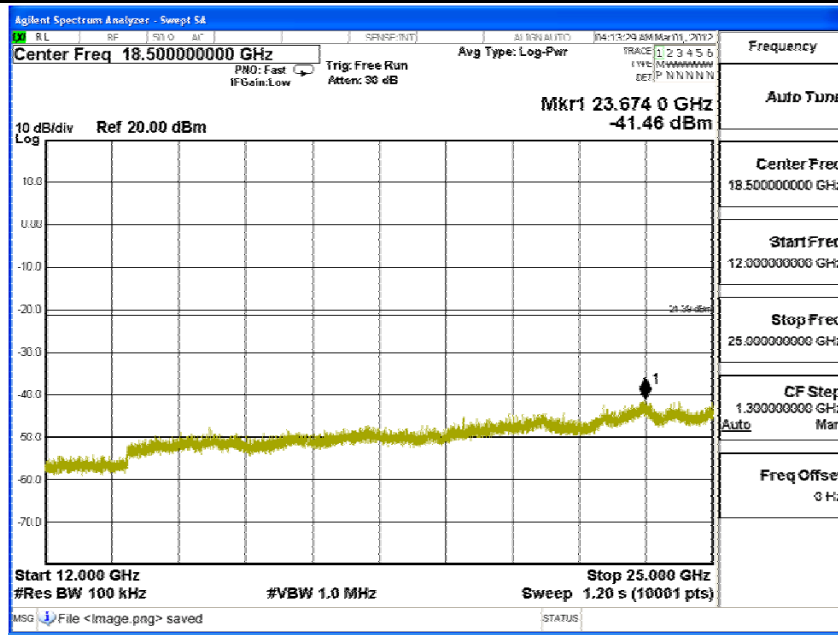


5190B-2

Date: 3.APR.2012 09:28:28

Channel 165 (5825MHz) 30MHz -40GHz-Chain A

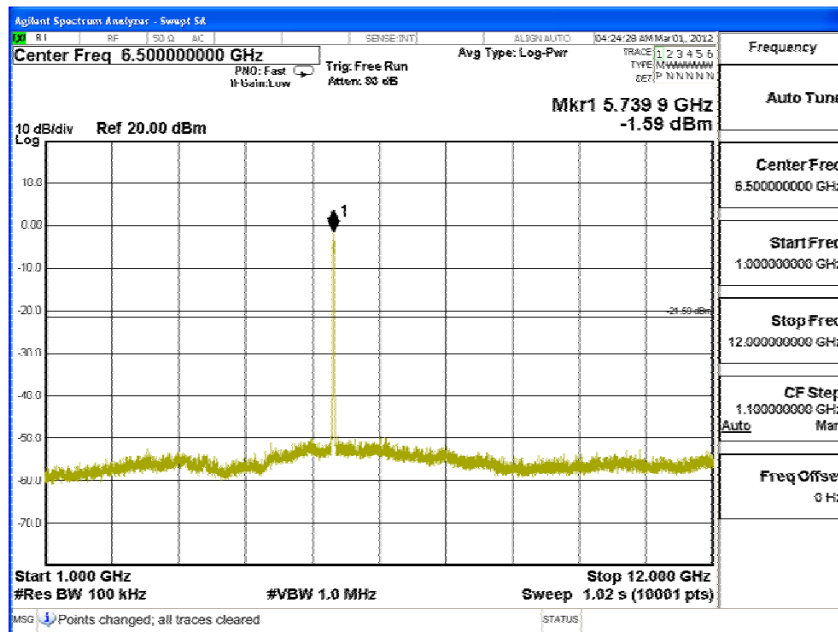
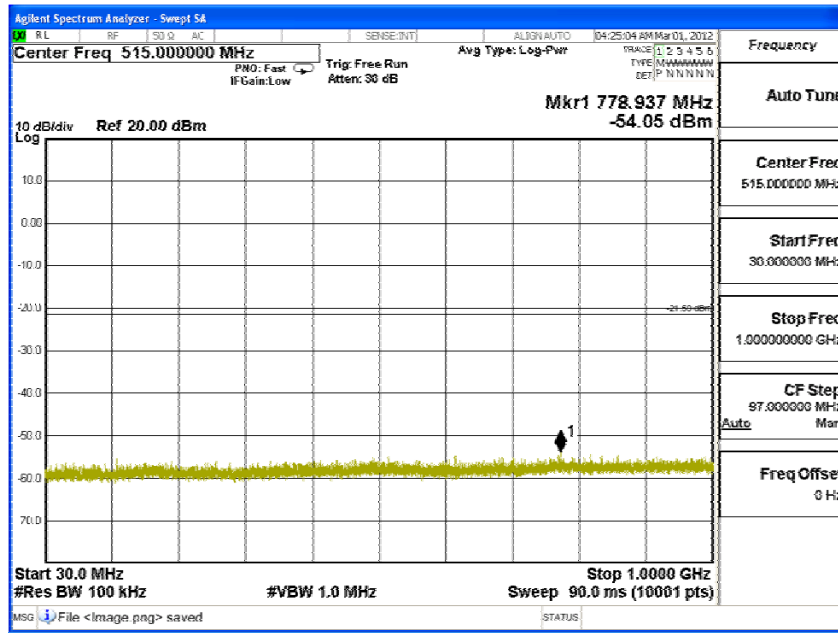


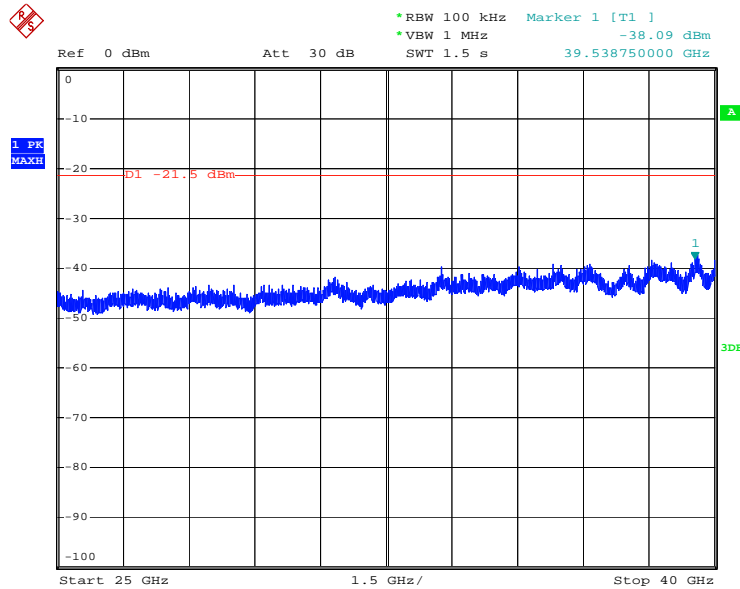
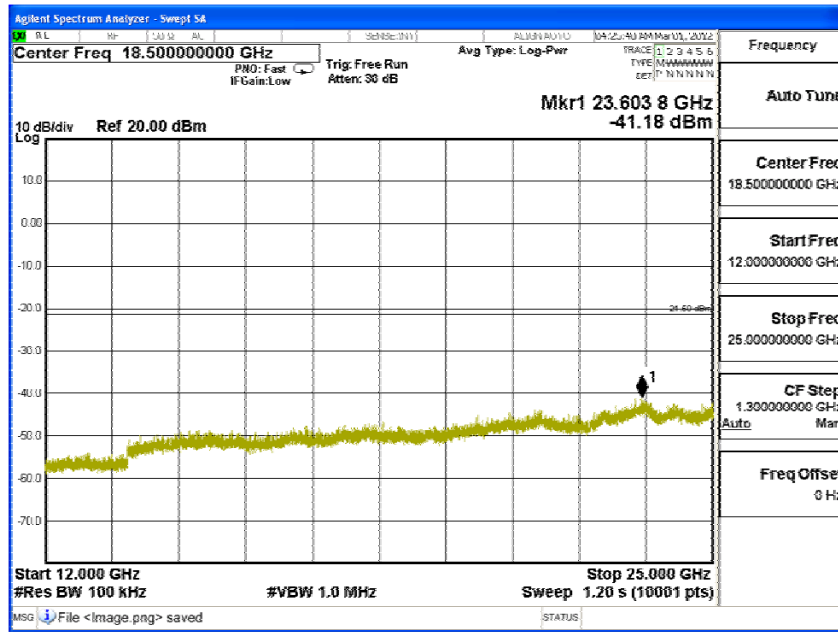


5190B-2

Date: 3.APR.2012 09:31:19

Channel 149 (5745MHz) 30MHz -40GHz-Chain B

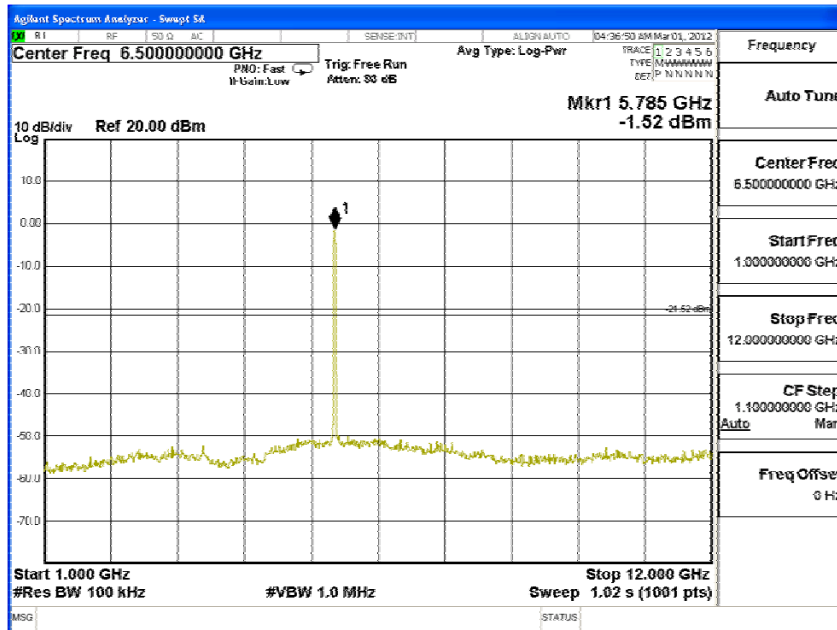
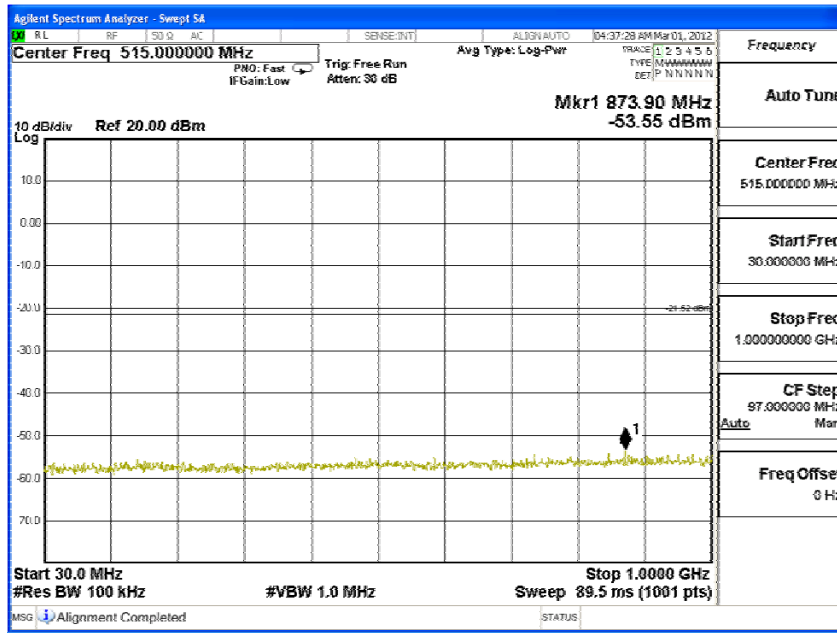


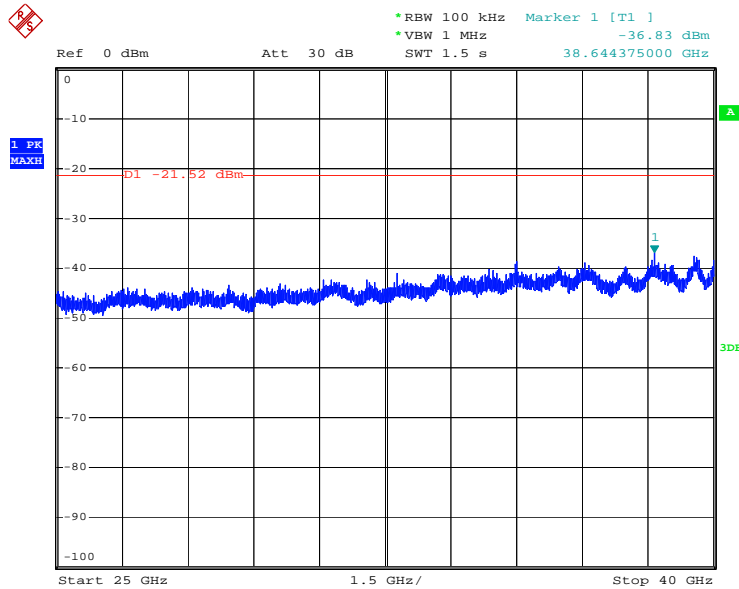
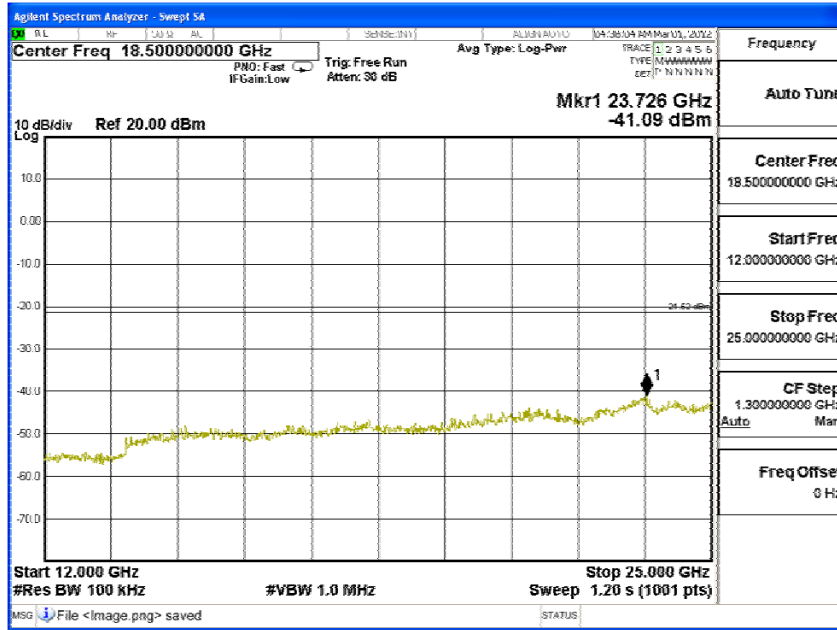


5190B-2

Date: 3.APR.2012 09:27:14

Channel 157 (5785MHz) 30MHz -40GHz-Chain B

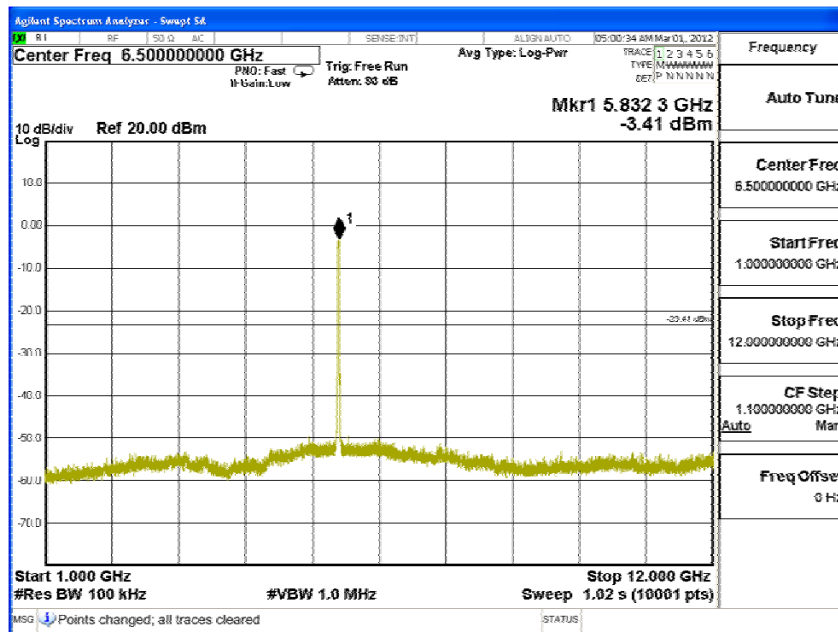
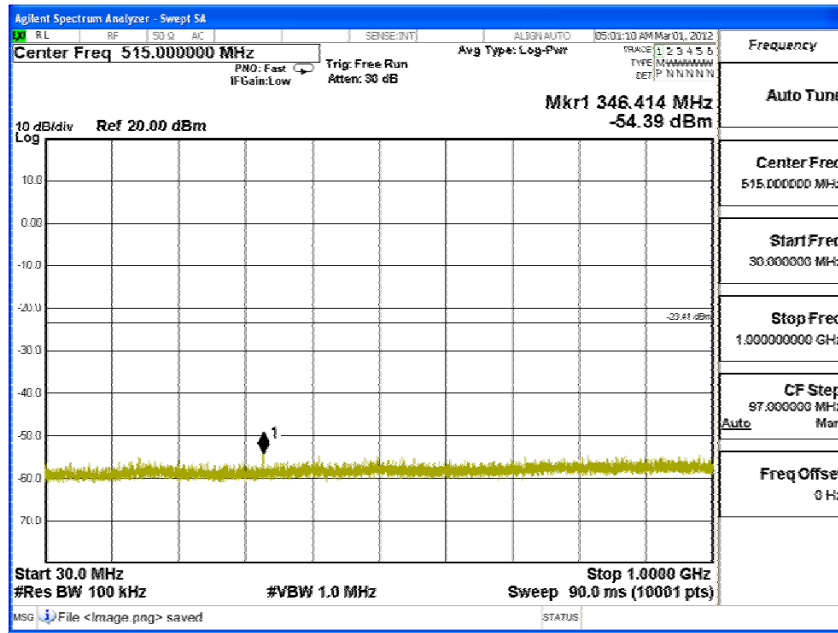


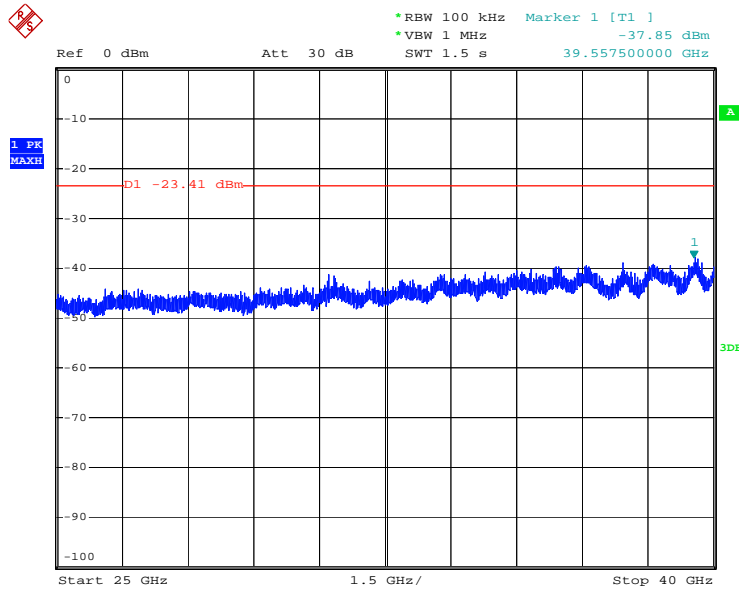
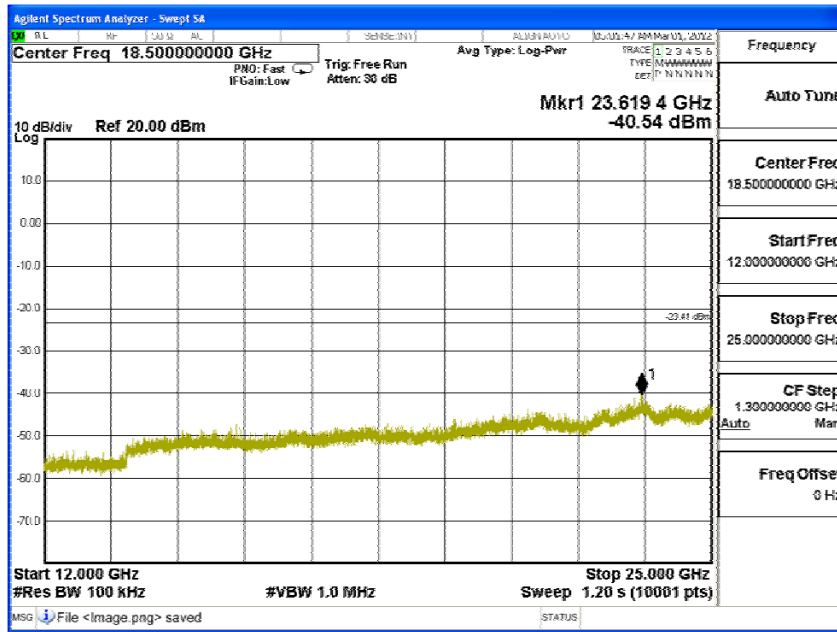


5190B-2

Date: 3.APR.2012 09:30:09

Channel 165 (5825MHz) 30MHz -40GHz-Chain B



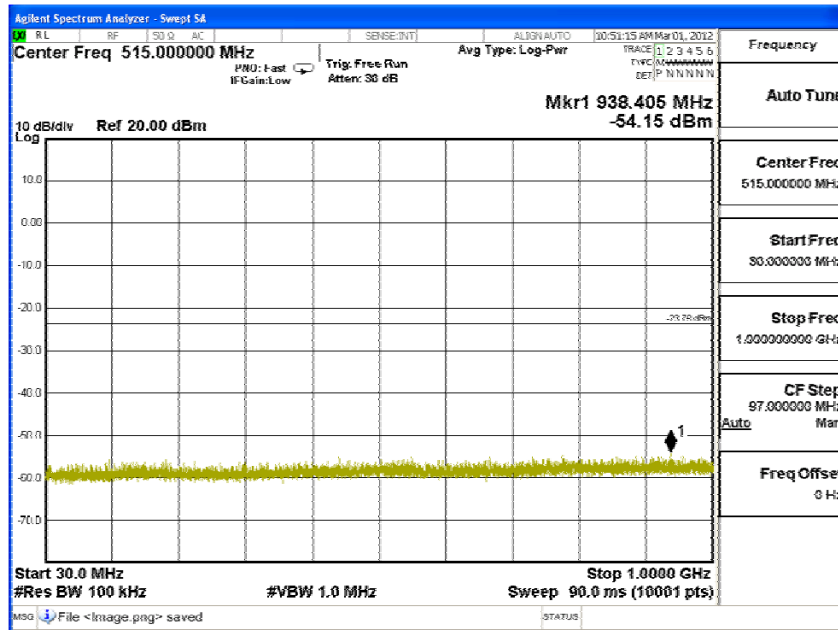


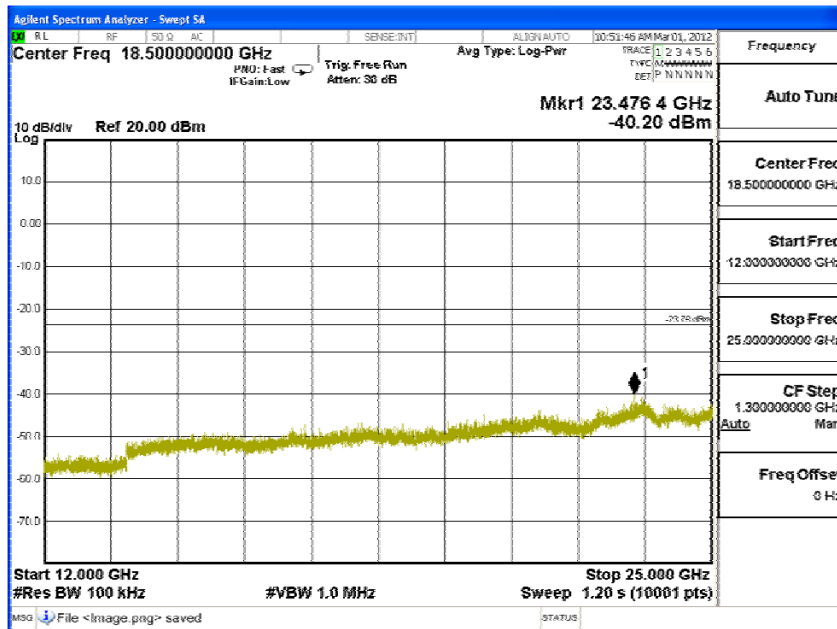
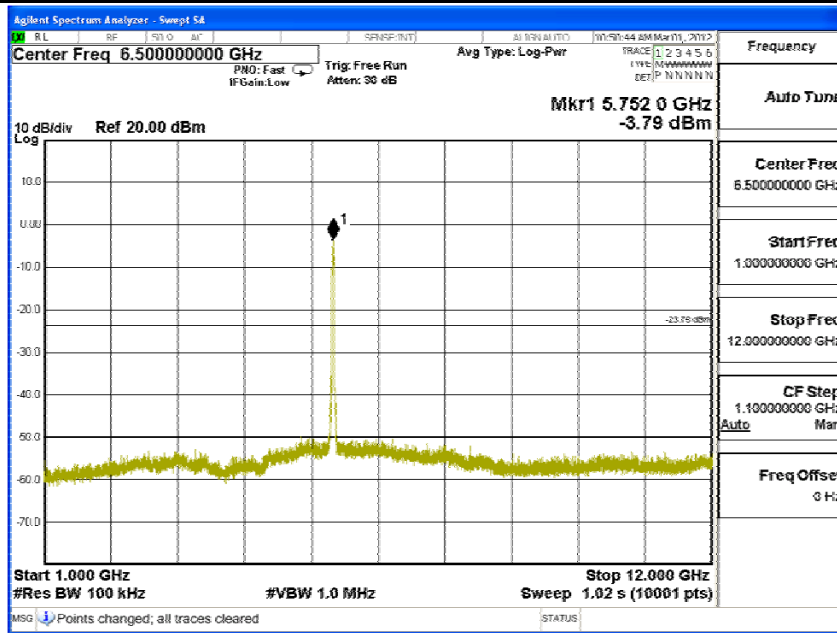
5190B-2

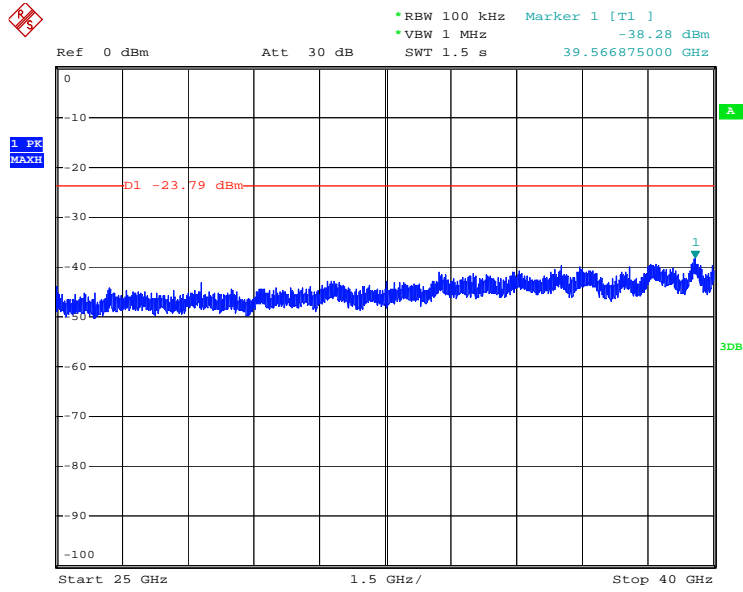
Date: 3.APR.2012 09:32:47

Product : Tablet PC
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)

Channel 151 (5755MHz) 30MHz -40GHz-Chain A



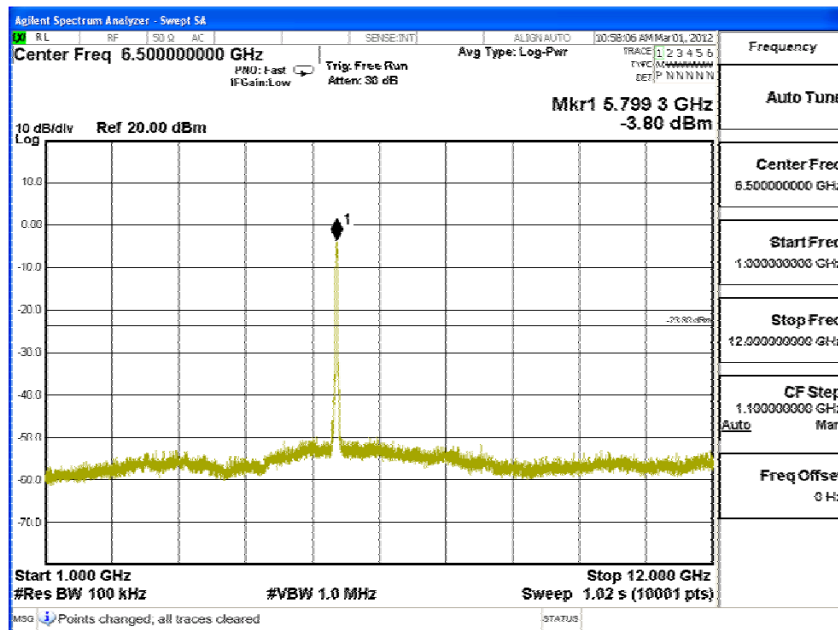
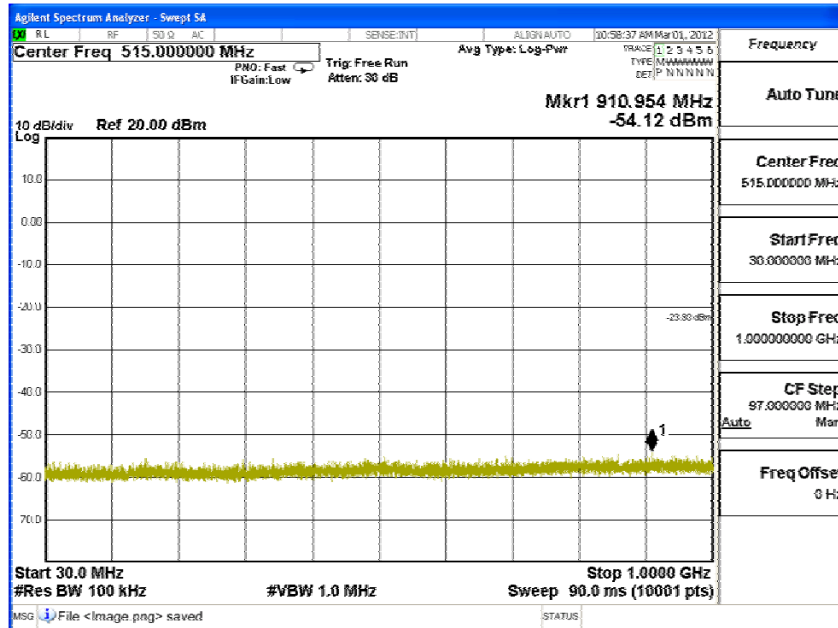


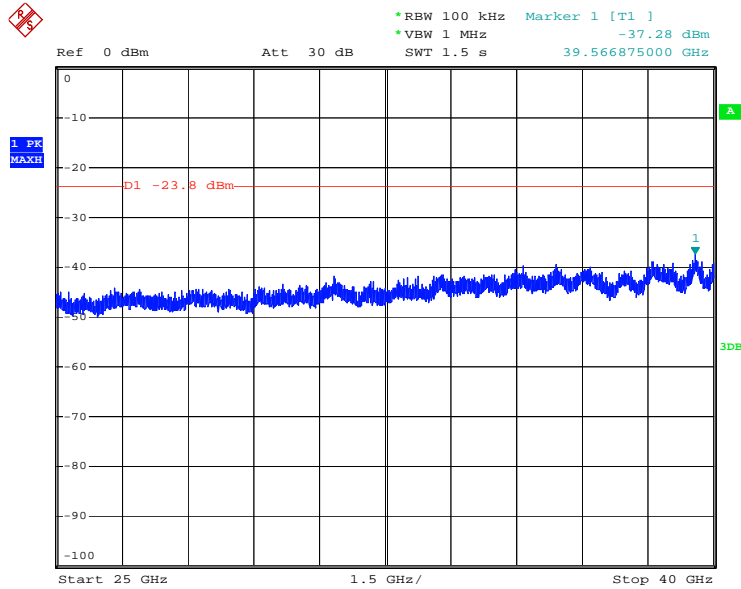
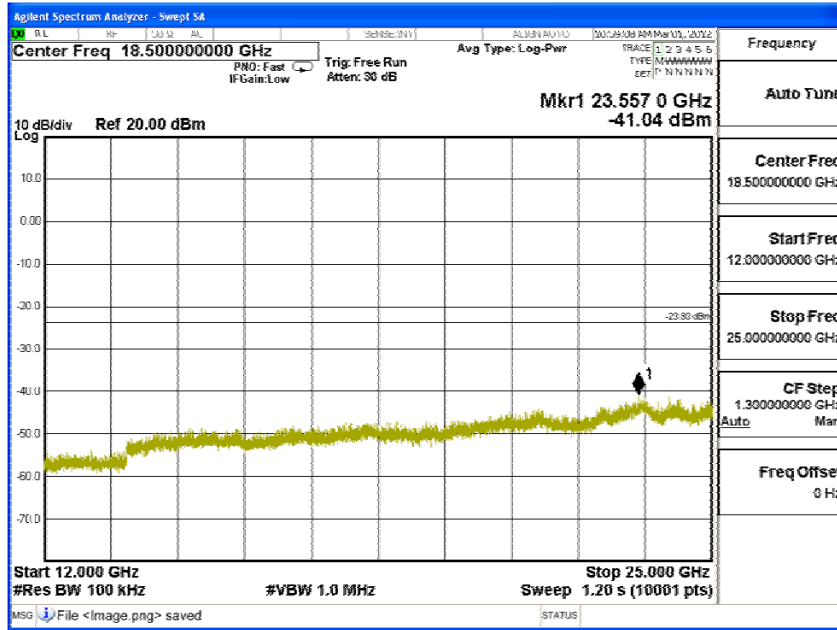


5190B-2

Date: 3.APR.2012 09:34:01

Channel 159 (5795MHz) 30MHz -40GHz-Chain A

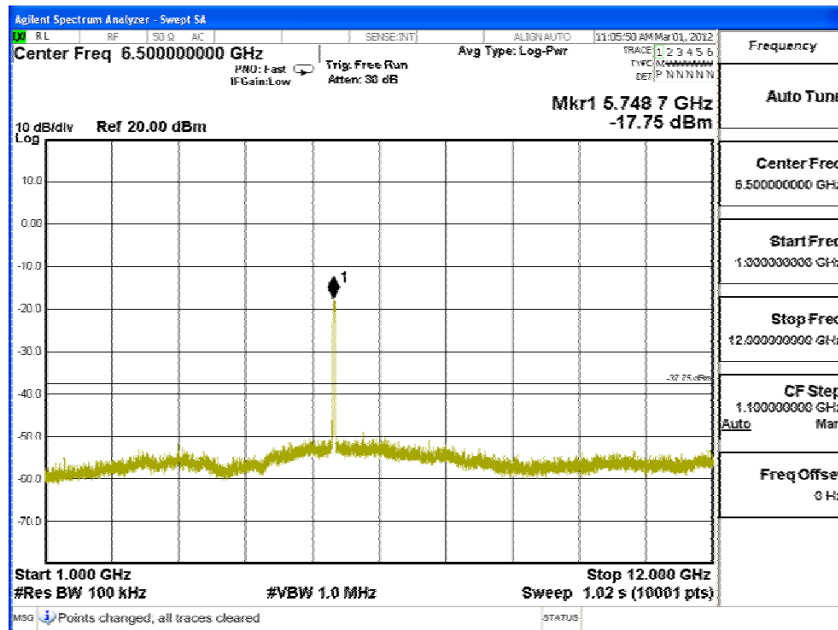
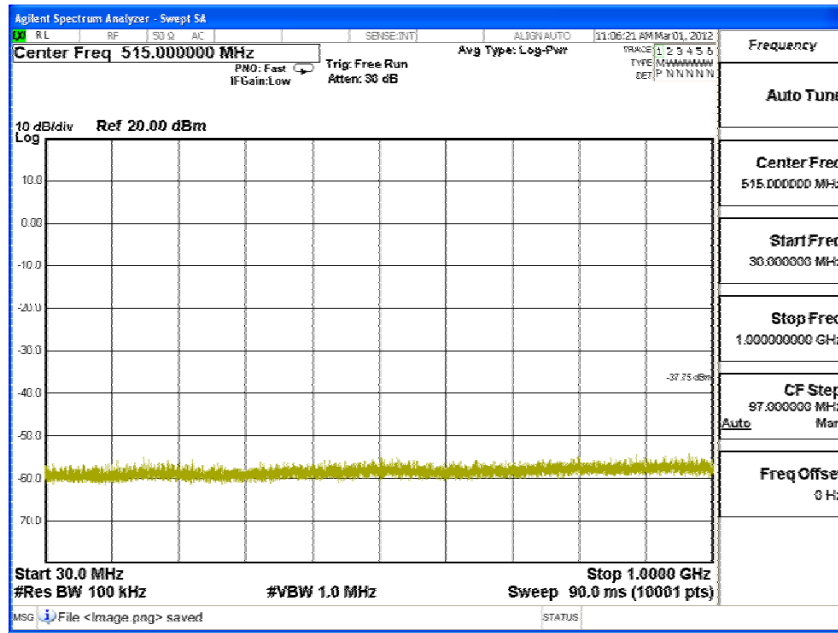


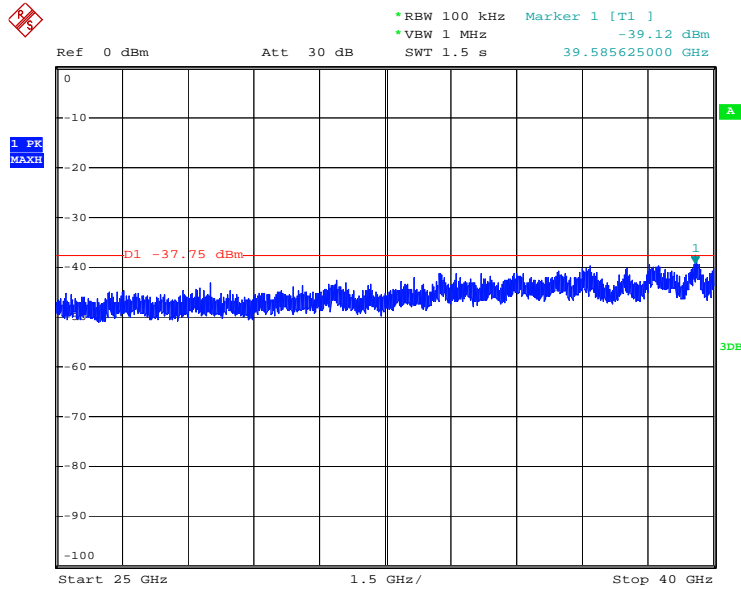
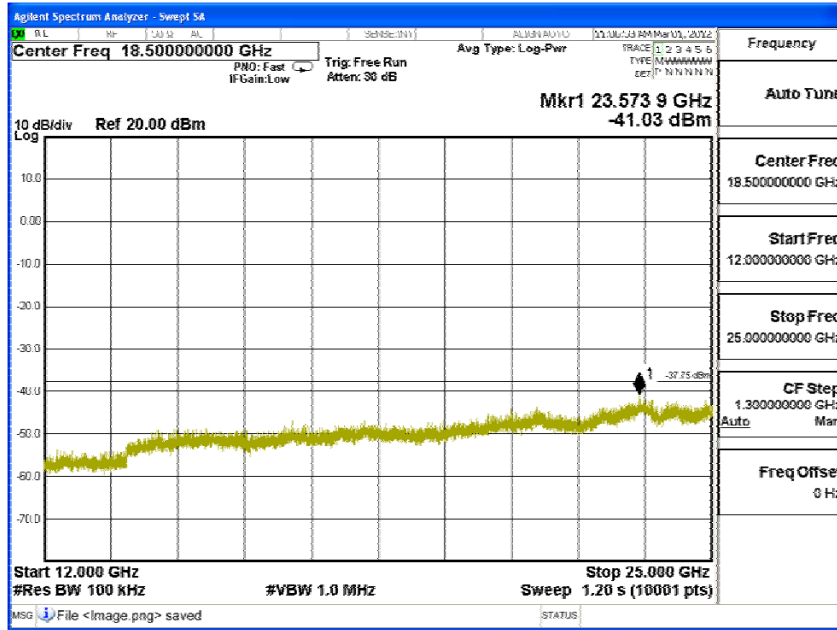


5190B-2

Date: 3.APR.2012 09:37:48

Channel 151 (5755MHz) 30MHz -40GHz-Chain B

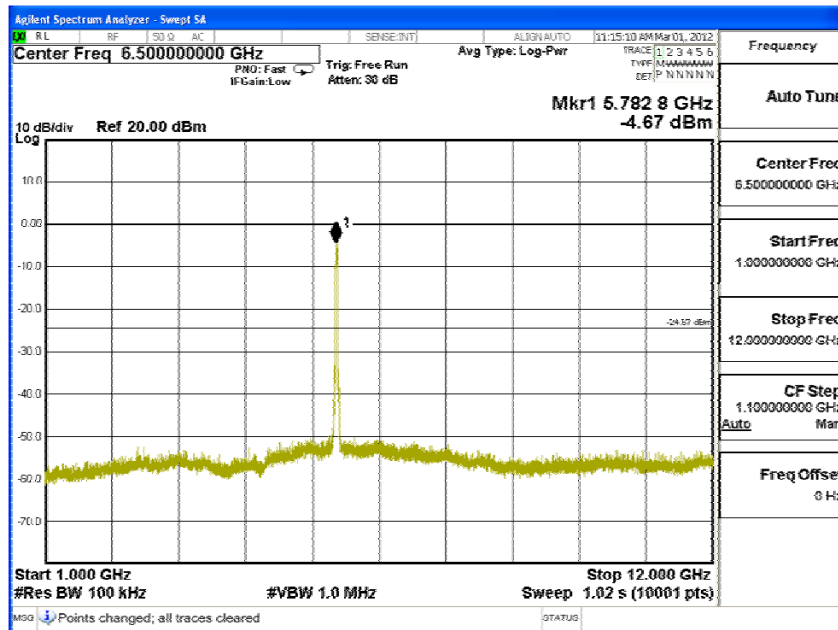
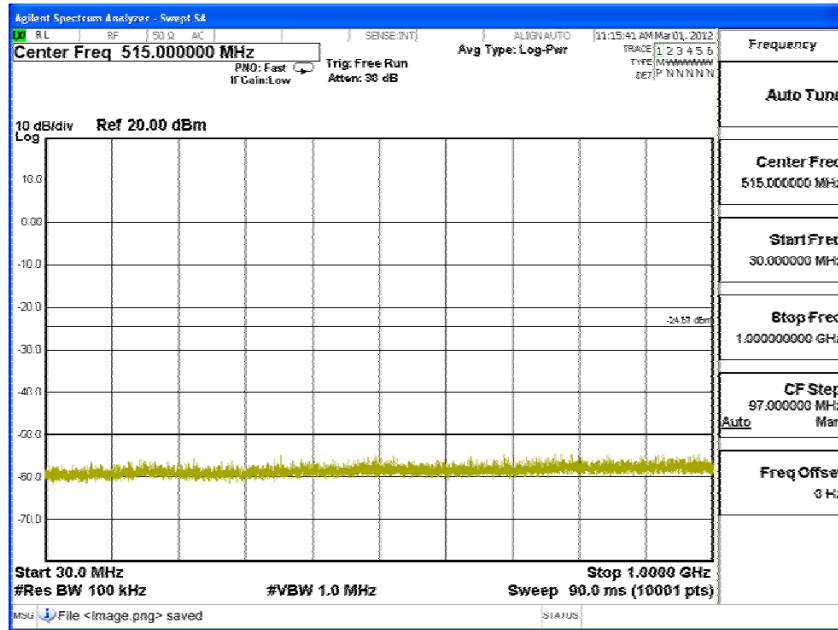


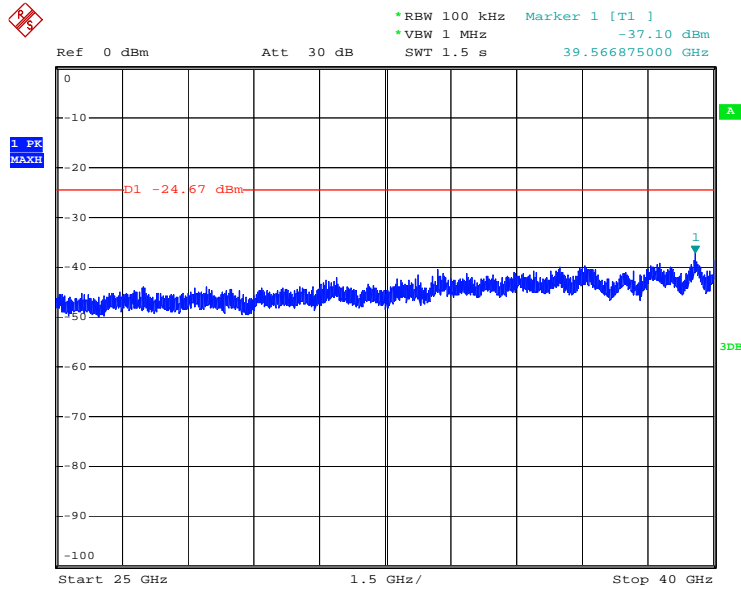
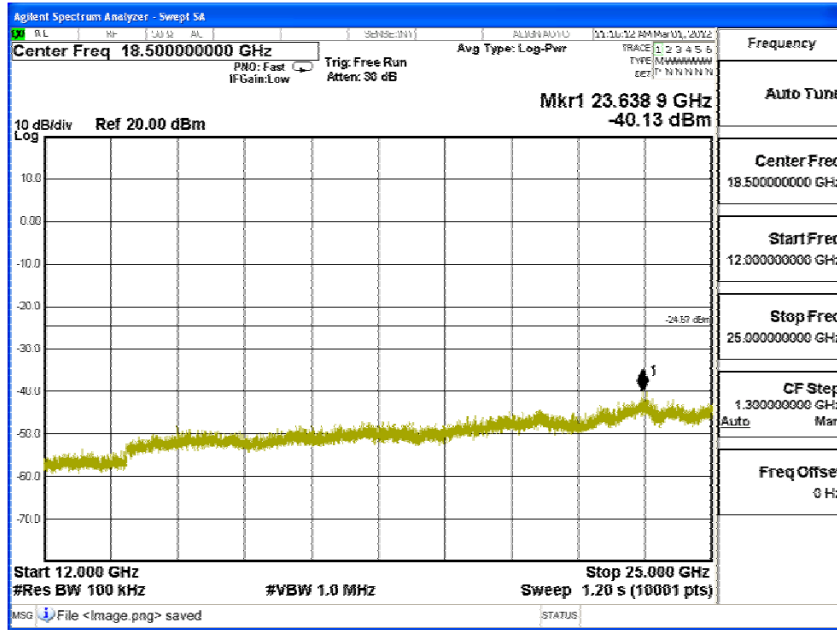


5190B-2

Date: 3.APR.2012 09:36:28

Channel 159 (5795MHz) 30MHz -40GHz-Chain B





5190B-2

Date: 3.APR.2012 09:38:53

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, 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.

RF Radiated Measurement:

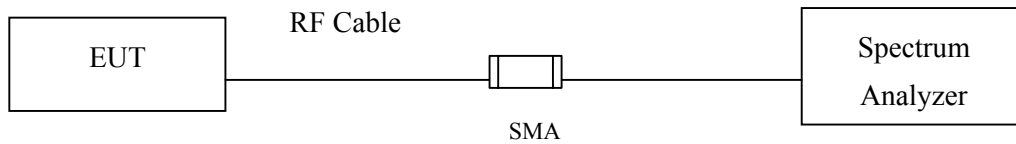
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2011
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2011
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2011
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2011
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2012
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2011
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2011
	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

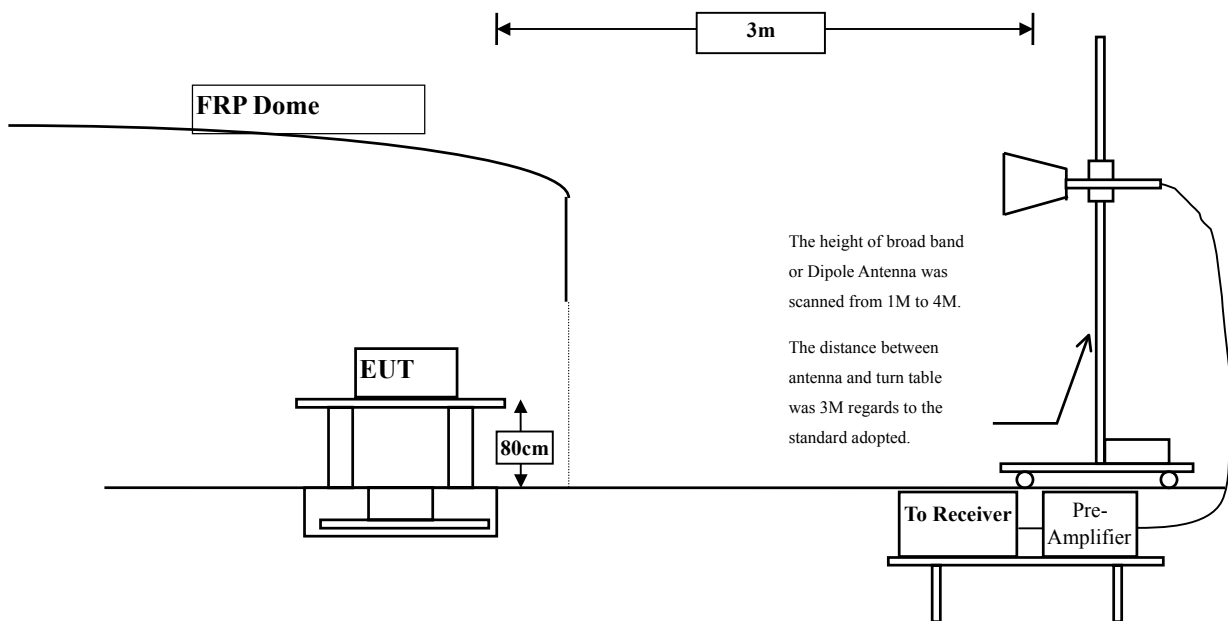
- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

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 Jan. 2012 KDB558074 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 : Tablet PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

Fundamental Filed Strength

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2412	30.543	70.42	102.058	Peak
Horizontal	2412	30.543	65.69	97.328	Average
Vertical	2412	30.95	68.2	99.149	Peak
Vertical	2412	30.95	63.01	93.959	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)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2387.8	102.058	49.55	52.508	74.000	Peak
Horizontal	2389.3	97.328	59.6	37.728	54.000	Average
Vertical	2387.8	99.149	49.55	49.599	74.000	Peak
Vertical	2389.3	93.959	59.6	34.359	54.000	Average

Note:

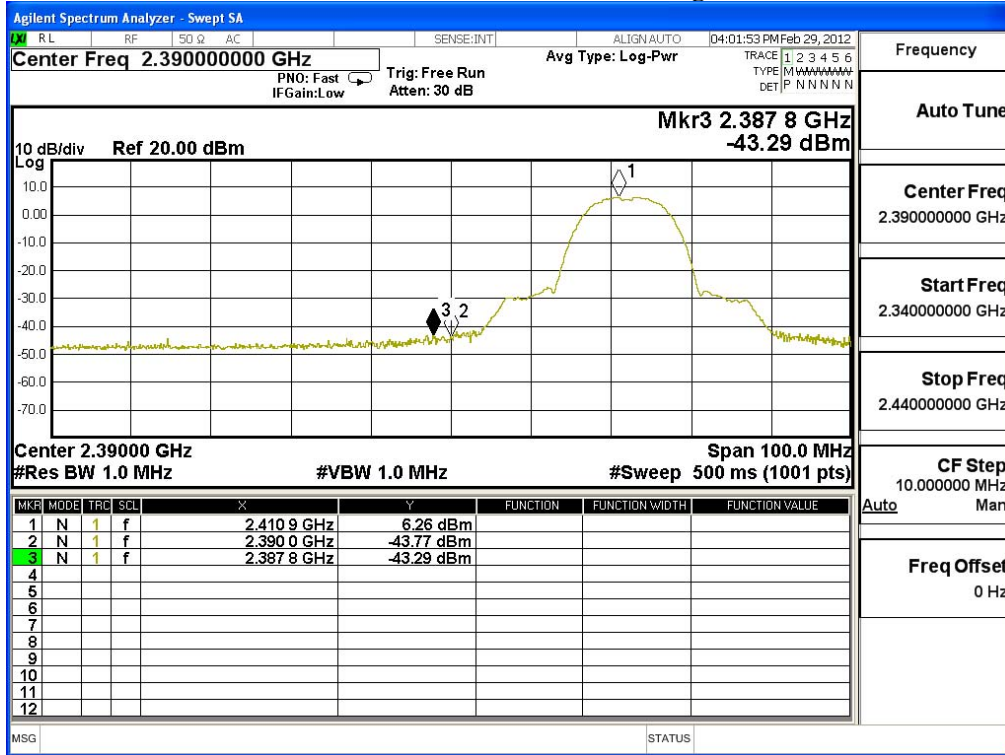
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

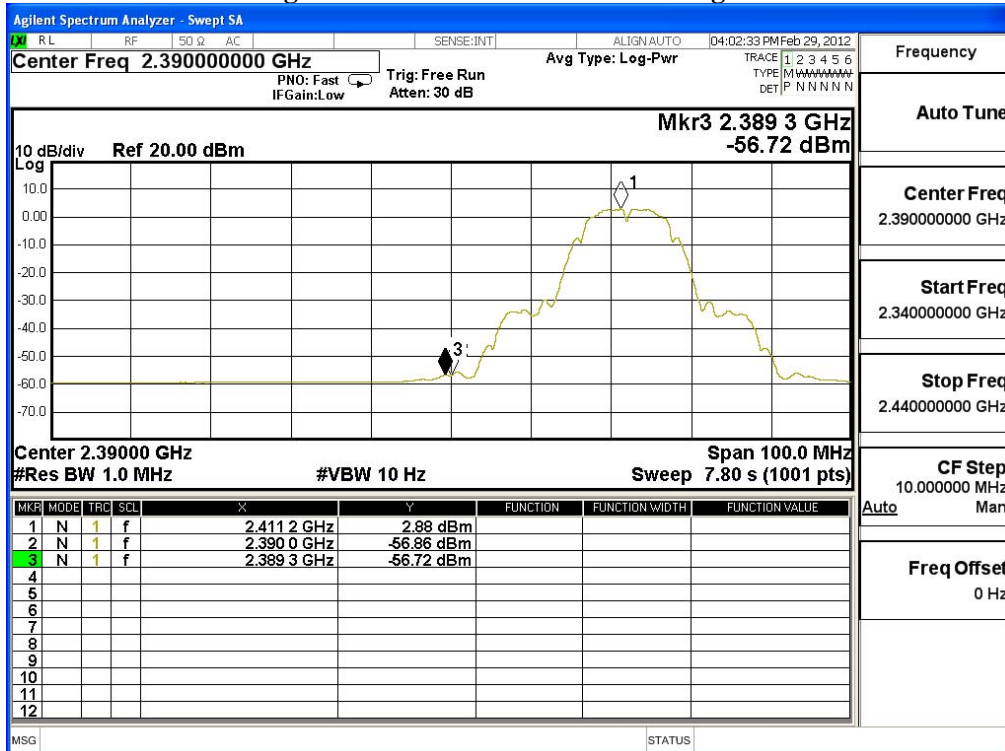
F = Fundamental field Strength (Peak or Average)

Δ = 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 1: Transmit - 802.11b 1Mbps

Fundamental Filed Strength

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2462	32.019	71.37	103.389	Peak
Horizontal	2462	32.019	66.66	98.679	Average
Vertical	2462	31.29	68.67	99.96	Peak
Vertical	2462	31.29	64.53	95.82	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)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2483.5	103.389	47.5	55.889	74.000	Peak
Horizontal	2483.5	98.679	59.92	38.759	54.000	Average
Vertical	2483.5	99.96	47.5	52.46	74.000	Peak
Vertical	2483.5	95.82	59.92	35.9	54.000	Average

Note:

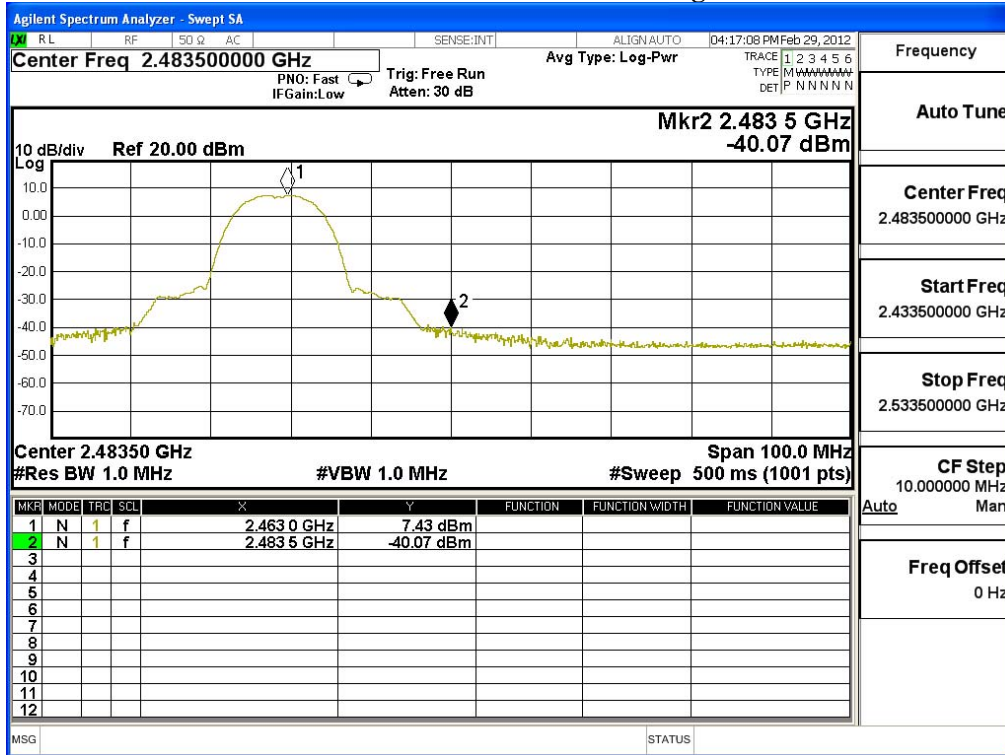
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

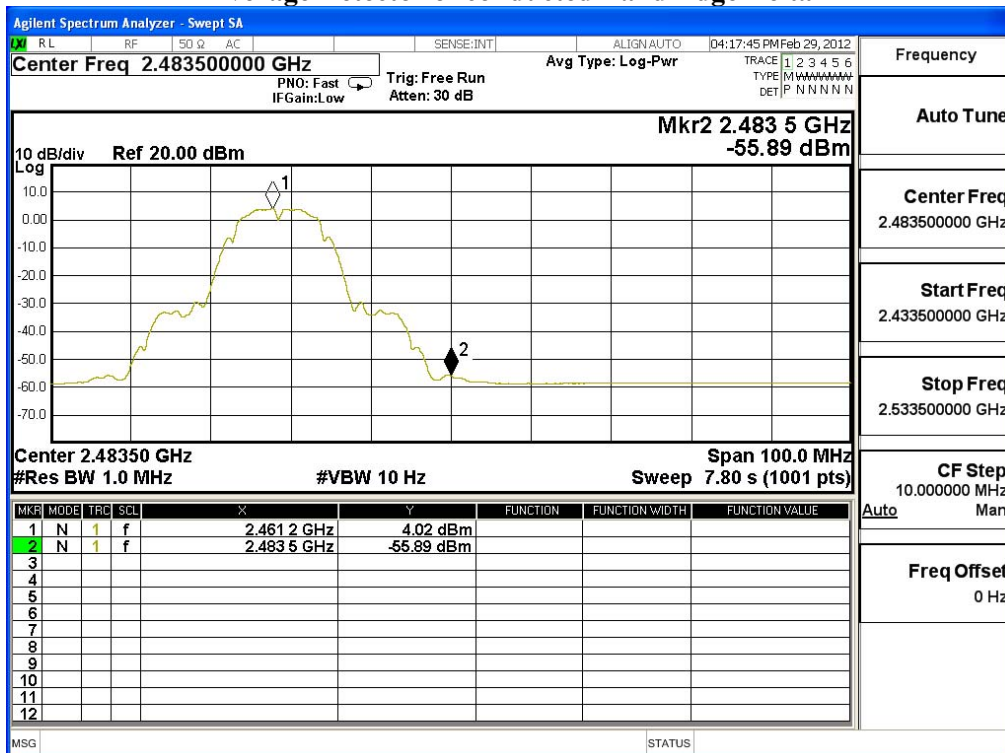
F = Fundamental field Strength (Peak or Average)

Δ = 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 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	2412	31.639	70.63	102.268	Peak
Horizontal	2412	31.639	60.96	92.598	Average
Vertical	2412	30.95	69.5	100.449	Peak
Vertical	2412	30.95	59.31	90.259	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)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Limit (dBuV/m)	Detector
Horizontal	2390	102.268	40.04	62.228	74.000	Peak
Horizontal	2390	92.598	48.89	43.708	54.000	Average
Vertical	2390	100.449	40.04	60.409	74.000	Peak
Vertical	2390	90.259	48.89	41.369	54.000	Average

Note:

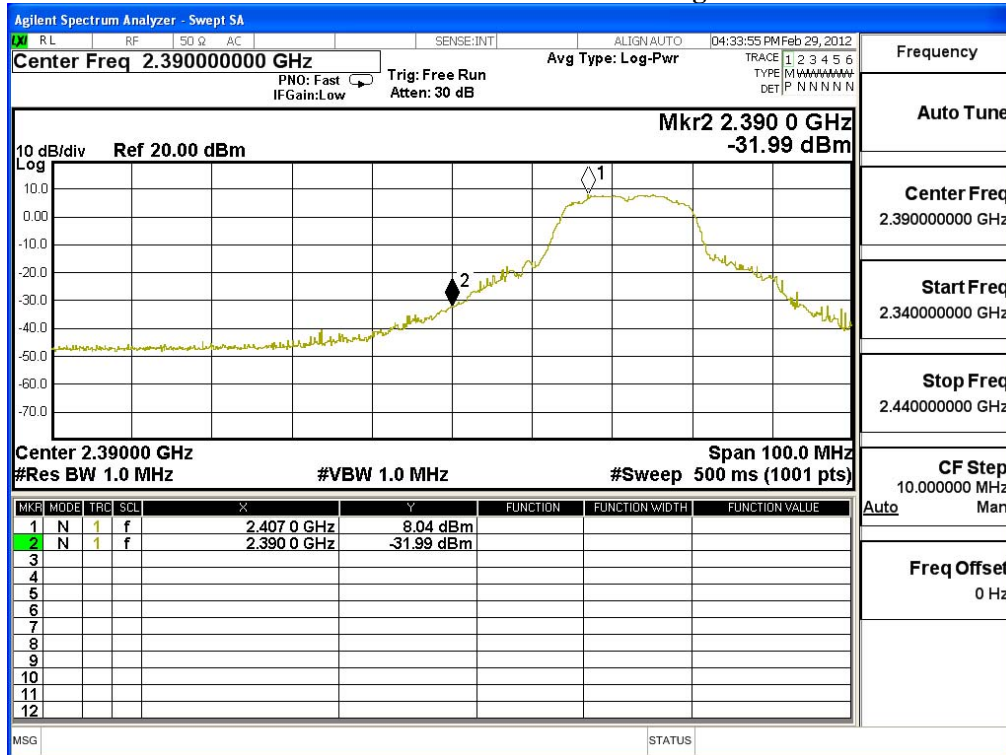
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

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

F = Fundamental field Strength (Peak or Average)

Δ = Conducted Band Edge Delta (Peak or Average)

Peak Detector of conducted Band Edge Delta



Average Detector of conducted Band Edge Delta

