



# Test Report

Product Name	PC to TV Transmitter
Model No	ZIN-2100T, BV-2100T
FCC ID.	YG7ZIN2100T

Applicant	ZINWELL Corporation
Address	7F 512, Yuan Shan Road, Zhonghe Dist, New Taipei City 235, Taiwan

Date of Receipt	Jul. 01, 2011
Issue Date	Sep. 08, 2011
Report No.	117086R-RFUSP28V01
Report Version	V1.0

The test results relate only to the samples tested.  
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# Test Report Certification

Issue Date: Sep. 08, 2011

Report No.: 117086R-RFUSP28V01



Accredited by NIST (NVLAP)  
NVLAP Lab Code: 200533-0

Product Name	PC to TV Transmitter	
Applicant	ZINWELL Corporation	
Address	7F 512, Yuan Shan Road, Zhonghe Dist, New Taipei City 235, Taiwan	
Manufacturer	ZINWELL Corporation	
Model No.	ZIN-2100T, BV-2100T	
FCC ID.	YG7ZIN2100T	
EUT Rated Voltage	DC 5V / 0.5A	
EUT Test Voltage	AC 120V/60Hz	
Trade Name	<b>ZINWELL<sup>®</sup> brite-View</b>	
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2010 ANSI C63.4: 2009	 NVLAP Lab Code: 200533-0
Test Result	Complied	

The test results relate only to the samples tested.

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Testing Laboratory  
**0914**

## TABLE OF CONTENTS

Description	Page
<b>1. GENERAL INFORMATION .....</b>	<b>5</b>
1.1. EUT Description.....	5
1.2. Operational Description .....	7
1.3. Tested System Details.....	8
1.4. Configuration of Tested System .....	8
1.5. EUT Exercise Software .....	9
1.6. Test Facility .....	10
<b>2. Conducted Emission.....</b>	<b>11</b>
2.1. Test Equipment.....	11
2.2. Test Setup .....	11
2.3. Limits .....	12
2.4. Test Procedure .....	12
2.5. Uncertainty .....	12
2.6. Test Result of Conducted Emission.....	13
<b>3. Peak Power Output .....</b>	<b>15</b>
3.1. Test Equipment.....	15
3.2. Test Setup .....	15
3.3. Limits .....	15
3.4. Test Procedure .....	15
3.5. Uncertainty .....	15
3.6. Test Result of Peak Power Output.....	16
<b>4. Radiated Emission.....</b>	<b>20</b>
4.1. Test Equipment.....	20
4.2. Test Setup .....	21
4.3. Limits .....	22
4.4. Test Procedure .....	23
4.5. Uncertainty .....	23
4.6. Test Result of Radiated Emission.....	24
<b>5. RF antenna conducted test.....</b>	<b>40</b>
5.1. Test Equipment.....	40
5.2. Test Setup .....	40
5.3. Limits .....	40
5.4. Test Procedure .....	40
5.5. Uncertainty .....	41
5.6. Test Result of RF antenna conducted test.....	42
<b>6. Band Edge .....</b>	<b>62</b>
6.1. Test Equipment.....	62
6.2. Test Setup .....	63
6.3. Limits .....	63
6.4. Test Procedure .....	64
6.5. Uncertainty .....	64
6.6. Test Result of Band Edge .....	65

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<b>7.</b>	<b>Occupied Bandwidth .....</b>	<b>81</b>
7.1.	Test Equipment .....	81
7.2.	Test Setup .....	81
7.3.	Limits .....	81
7.4.	Test Procedure .....	81
7.5.	Uncertainty .....	81
7.6.	Test Result of Occupied Bandwidth .....	82
<b>8.</b>	<b>Power Density .....</b>	<b>94</b>
8.1.	Test Equipment .....	94
8.2.	Test Setup .....	94
8.3.	Limits .....	94
8.4.	Test Procedure .....	94
8.5.	Uncertainty .....	94
8.6.	Test Result of Power Density .....	95
<b>9.</b>	<b>EMI Reduction Method During Compliance Testing .....</b>	<b>107</b>

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	PC to TV Transmitter
Trade Name	<b>ZINWELL</b> <sup>®</sup> , <b>brite-View</b>
Model No.	ZIN-2100T, BV-2100T
FCC ID.	YG7ZIN2100T
Frequency Range	2412-2462MHz for 802.11b/g/n-20BW, 2422-2452MHz for 802.11n-40BW
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 150Mbps
Type of Modulation	802.11b:DSSS (DBPSK, DQPSK, CCK) 802.11g/n:OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	Printed on PCB
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	ZINWELL	N/A	Printed on PCB	2.97dBi for 2.4 GHz

Note:

1. The antenna of EUT is conform to FCC 15.203.

## 802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

## 802.11n-40MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2422 MHz	Channel 02:	2427 MHz	Channel 03:	2432 MHz	Channel 04:	2437 MHz
Channel 05:	2442 MHz	Channel 06:	2447 MHz	Channel 07:	2452 MHz		

## Note:

1. The EUT is a PC to TV Transmitter with a built-in 2.4GHz WLAN transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps 、 802.11g is 6Mbps 、 802.11n(20M-BW) is 7.2Mbps and 、 802.11n(40M-BW) is 15Mbps)
4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
5. The different of each model is shown as below:

Model Number	Trade Name
ZIN-2100T	<b>ZINWELL<sup>®</sup></b>
BV-2100T	<b>brite-View</b>

**1.2. Operational Description**

The EUT is a PC to TV Transmitter, This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps and the device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b). The device provided of eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11g).

The device provided of eight kinds of transmitting speed 7.2,14.4,21.7,28.9,43.3,57.8,65 and 72.2Mbps in 802.11n(20M-BW) mode and 15,30,45,60,90,120,135 and 150Mbps(40M-BW) the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11n), The IEEE 802.11n is Single In, Single Out” (SISO) technology and one antennas to support 1(Transmit) \* 1(Receive) SISO technology.

This PC to TV Transmitter, compliant with IEEE 802.11b and IEEE 802.11g/n, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) radio transmission, the PC to TV Transmitter Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g/n network.

Test Mode:	Mode 1: Transmit (802.11b 1Mbps)
	Mode 2: Transmit (802.11g 6Mbps)
	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)
	Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)

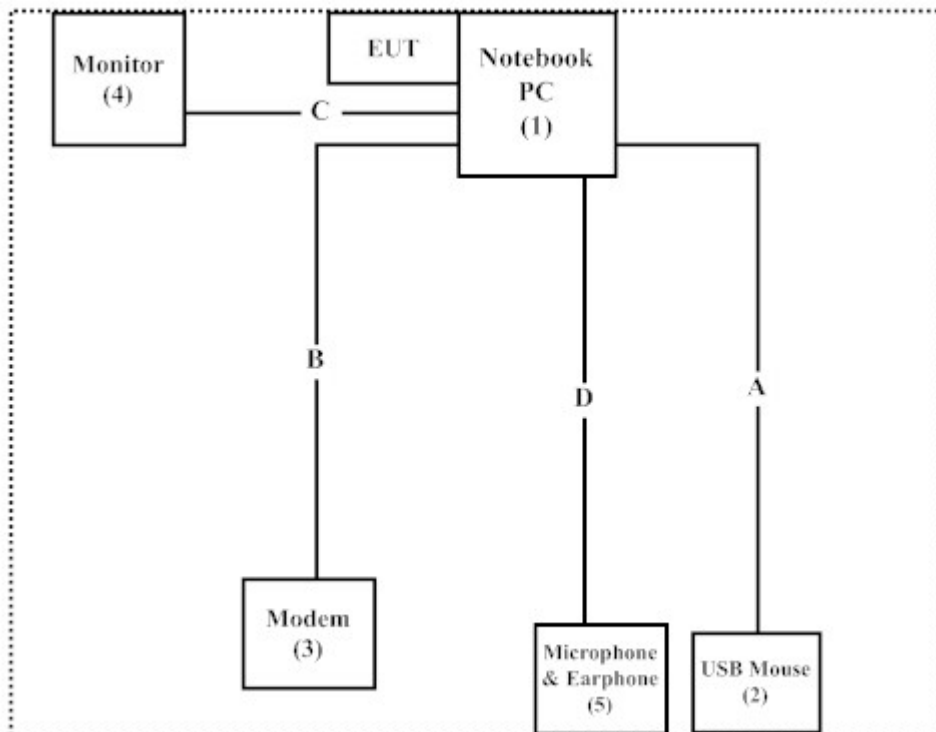
### 1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	PPT	N/A	Non-Shielded, 0.8m
2	USB Mouse	DELL	MO56UC	G0X01JK0	N/A
3	Modem	ACEEX	DM-1414	0102027558	Non-Shielded, 1.8m
4	Monitor	LG	W2261VT	907YHED07299	Non-Shielded, 1.8m
5	Microphone & Earphone	Ergotech	ET-E201	N/A	N/A

Signal Cable Type	Signal cable Description
A	Mouse Cable Shielded, 1.8m
B	Modem Cable Shielded, 1.5m
C	VGA Cable Shielded, 1.8m, with two ferrite cores bonded.
D	Microphone & Earphone Cable Non-Shielded, 1.2m

### 1.4. Configuration of Tested System





## 1.5. EUT Exercise Software

- (1) Setup the EUT and peripherals as shown in Section 1.4
- (2) Execute “RT5X7XQA.exe (v1.0.3.6)” on the Notebook.
- (3) Configure the test mode, the test channel, and the data rate to start the continuous transmit.
- (4) Verify that the EUT works properly.

**1.6. Test Facility**

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from

Quietek Corporation's Web Site: <http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site:

<http://www.quietek.com/>

Site Description: File on  
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Accreditation on NVLAP  
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FCC Accreditation Number: TW1014



## 2. Conducted Emission

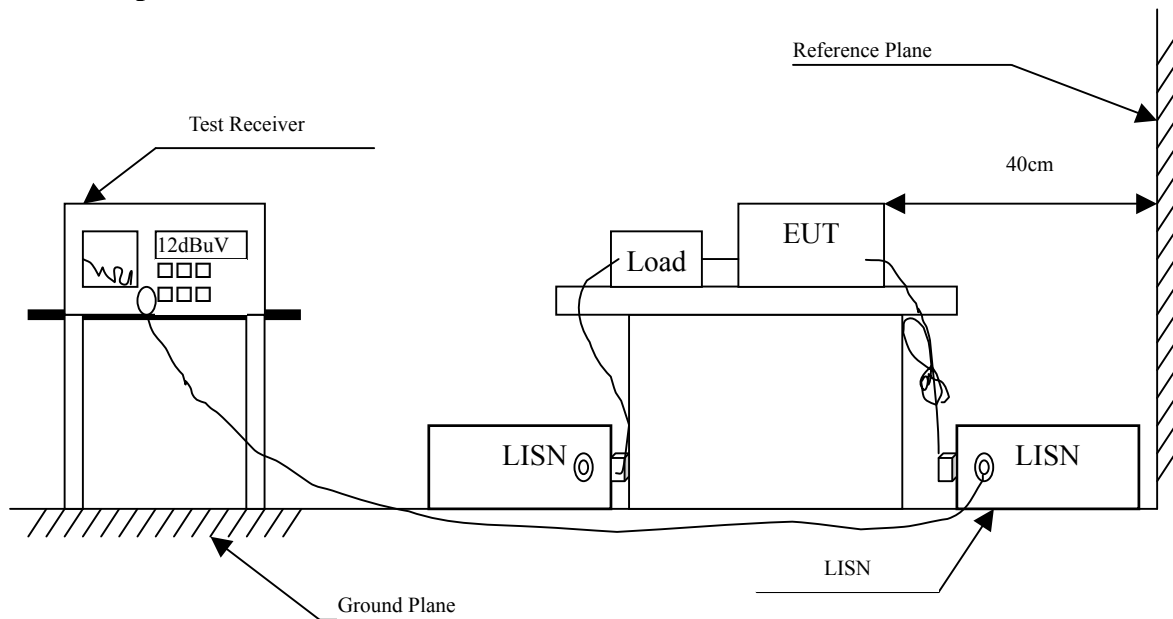
### 2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2011	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2011	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2011	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2011	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

### 2.2. Test Setup



**2.3. Limits**

<b>FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit</b>		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

**2.4. Test Procedure**

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

**2.5. Uncertainty**

± 2.26 dB

## 2.6. Test Result of Conducted Emission

Product : PC to TV Transmitter  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>Line 1</b>					
<b>Quasi-Peak</b>					
0.181	9.724	43.420	53.144	-11.970	65.114
0.244	9.679	35.120	44.799	-18.515	63.314
0.435	9.640	28.200	37.840	-20.017	57.857
0.658	9.630	38.680	48.310	-7.690	56.000
0.724	9.632	35.300	44.932	-11.068	56.000
4.107	9.700	20.000	29.700	-26.300	56.000
<b>Average</b>					
0.181	9.724	34.330	44.054	-11.060	55.114
0.244	9.679	26.420	36.099	-17.215	53.314
0.435	9.640	17.490	27.130	-20.727	47.857
0.658	9.630	25.640	35.270	-10.730	46.000
0.724	9.632	25.260	34.892	-11.108	46.000
4.107	9.700	9.390	19.090	-26.910	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : PC to TV Transmitter  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>Line 2</b>					
<b>Quasi-Peak</b>					
0.181	9.732	41.800	51.532	-13.582	65.114
0.244	9.689	33.740	43.429	-19.885	63.314
0.306	9.660	27.700	37.360	-24.183	61.543
0.423	9.650	29.800	39.450	-18.750	58.200
0.697	9.650	42.500	52.150	-3.850	56.000
4.185	9.700	19.300	29.000	-27.000	56.000
<b>Average</b>					
0.181	9.732	32.910	42.642	-12.472	55.114
0.244	9.689	24.870	34.559	-18.755	53.314
0.306	9.660	19.170	28.830	-22.713	51.543
0.423	9.650	20.060	29.710	-18.490	48.200
0.697	9.650	32.650	42.300	-3.700	46.000
4.185	9.700	8.500	18.200	-27.800	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3. Peak Power Output

#### 3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2011
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2011

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.

#### 3.2. Test Setup

Conducted Measurement



#### 3.3. Limits

The maximum peak power shall be less 1 Watt.

#### 3.4. Test Procedure

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

#### 3.5. Uncertainty

$\pm 1.27$  dB

### 3.6. Test Result of Peak Power Output

Product : PC to TV Transmitter  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11			
		Measurement Level (dBm)						
01	2412	15.95	--	--	--	18.84	<30dBm	Pass
06	2437	16.15	16.15	16.14	16.1	18.98	<30dBm	Pass
11	2462	16.03	--	--	--	18.85	<30dBm	Pass

Note: Peak Power Output Value = Reading value on peak power meter + cable loss



Product : PC to TV Transmitter  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
01	2412	14.02	--	--	--	--	--	--	--	24.22	<30dBm	Pass
06	2437	14.21	14.19	14.18	14.15	14.14	14.14	14.11	14.02	24.32	<30dBm	Pass
11	2462	14.11	--	--	--	--	--	--	--	24.64	<30dBm	Pass

Note: Peak Power Output Value = Reading value on peak power meter + cable loss

Product : PC to TV Transmitter  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2			
		Measurement Level (dBm)										
01	2412	12.74	--	--	--	--	--	--	--	23.35	<30dBm	Pass
06	2437	12.97	12.96	12.95	12.95	12.94	12.92	12.9	12.87	23.39	<30dBm	Pass
11	2462	12.51	--	--	--	--	--	--	--	23.44	<30dBm	Pass

Note: Peak Power Output Value = Reading value on peak power meter + cable loss

Product : PC to TV Transmitter  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		15	30	45	60	90	120	135	150			
		Measurement Level (dBm)										
01	2422	12.71	--	--	--	--	--	--	--	23.08	<30dBm	Pass
04	2437	12.78	12.78	12.76	12.74	12.71	12.68	12.64	12.61	23.02	<30dBm	Pass
07	2452	12.51	--	--	--	--	--	--	--	23.21	<30dBm	Pass

Note: Peak Power Output Value = Reading value on peak power meter + cable loss

#### 4. Radiated Emission

##### 4.1. Test Equipment

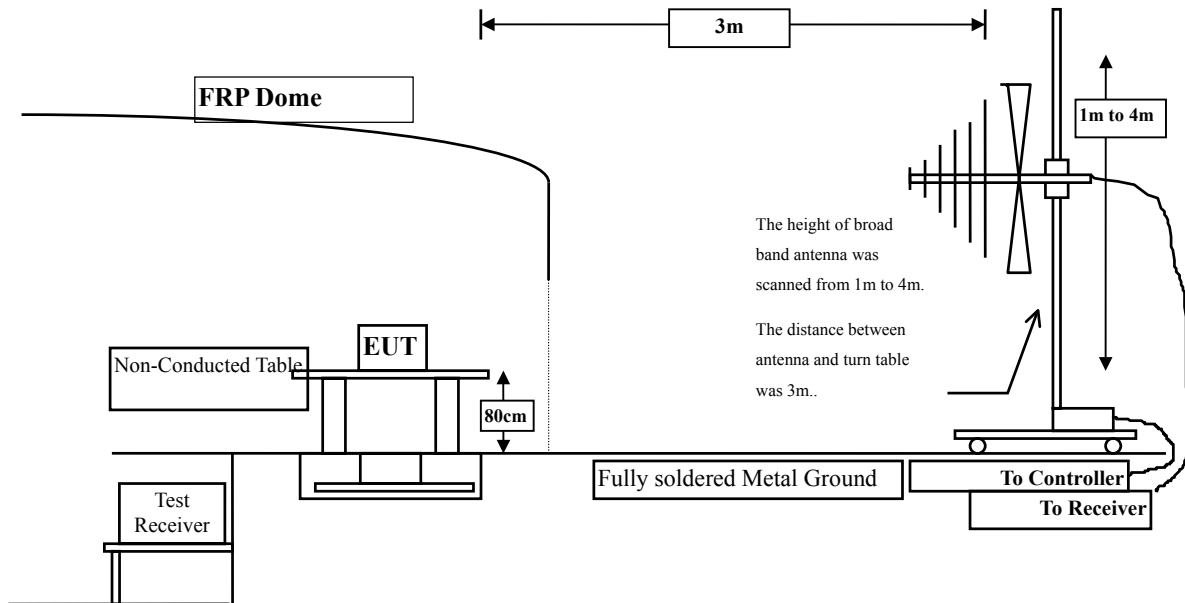
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2011
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
	X	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2011
	X	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2011
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2011
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2011
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2011
	X	Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

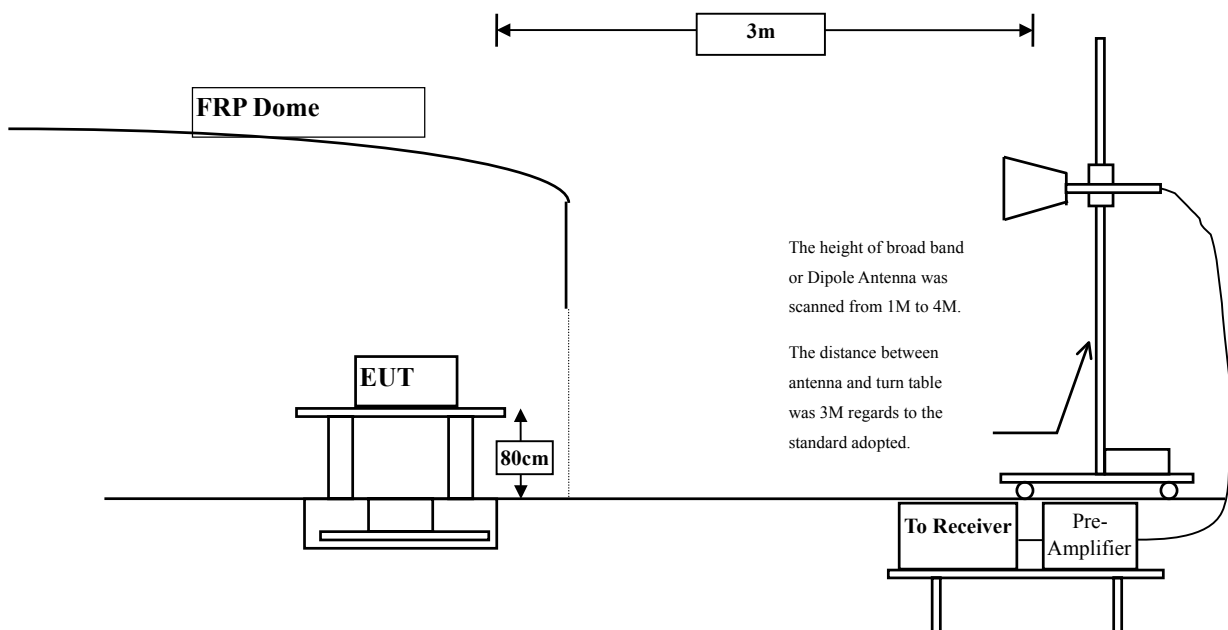
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
  2. The test instruments marked with “X” are used to measure the final test results.

## 4.2. Test Setup

### Radiated Emission Below 1GHz



### Radiated Emission Above 1GHz



### 4.3. 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.

<b>FCC Part 15 Subpart C Paragraph 15.209(a) Limits</b>		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

#### 4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to DTS test procedure of Mar. 2005 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 between 1 meter and 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 C63.4:2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The frequency range from 30MHz to 10th harmonics is checked.

#### 4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

#### 4.6. Test Result of Radiated Emission

Product : PC to TV Transmitter  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4824.000	3.261	39.740	43.001	-30.999	74.000
7236.000	10.650	36.530	47.180	-26.820	74.000
9648.000	13.337	36.760	50.096	-23.904	74.000

#### Average Detector:

--

#### Vertical

#### Peak Detector:

4824.000	6.421	42.210	48.631	-25.369	74.000
7236.000	11.495	36.340	47.835	-26.165	74.000
9648.000	13.807	35.990	49.796	-24.204	74.000

#### Average Detector:

--

#### Note:

- All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- Measurement Level = Reading Level + Correct Factor.
- Correct Factor = Antenna factor + Cable loss – Amplifier gain.
- The average measurement was not performed when the peak measured data under the limit of average detection.
- The emission levels of other frequencies are very lower than the limit and not show in test report.



Product : PC to TV Transmitter[u1]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBUV	Measurement Level dBUV/m	Margin dB	Limit dBUV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4874.000	3.038	39.940	42.977	-31.023	74.000
7311.000	11.795	35.620	47.414	-26.586	74.000
9748.000	12.635	36.900	49.535	-24.465	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4874.000	5.812	42.280	48.091	-25.909	74.000
7311.000	12.630	35.490	48.119	-25.881	74.000
9748.000	13.126	37.560	50.686	-23.314	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u2]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4924.000	2.858	40.320	43.177	-30.823	74.000
7386.000	12.127	35.420	47.548	-26.452	74.000
9848.000	12.852	37.640	50.493	-23.507	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4924.000	5.521	42.550	48.070	-25.930	74.000
7386.000	13.254	35.170	48.424	-25.576	74.000
9848.000	13.367	36.630	49.997	-24.003	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u3]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4824.000	3.261	37.710	40.971	-33.029	74.000
7236.000	10.650	36.050	46.700	-27.300	74.000
9648.000	13.337	36.030	49.366	-24.634	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4824.000	6.421	37.770	44.191	-29.809	74.000
7236.000	11.495	36.090	47.585	-26.415	74.000
9648.000	13.807	36.070	49.876	-24.124	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u4]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4874.000	3.038	37.370	40.407	-33.593	74.000
7311.000	11.795	35.920	47.714	-26.286	74.000
9748.000	12.635	36.600	49.235	-24.765	74.000

**Average Detector:**

--

<b>Peak Detector:</b>					
4874.000	5.812	37.610	43.421	-30.579	74.000
7311.000	12.630	35.480	48.109	-25.891	74.000
9748.000	13.126	36.090	49.216	-24.784	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u5]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4924.000	2.858	36.990	39.847	-34.153	74.000
7386.000	12.127	34.900	47.028	-26.972	74.000
9848.000	12.852	36.650	49.503	-24.497	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4924.000	5.521	39.600	45.120	-28.880	74.000
7386.000	13.254	35.150	48.404	-25.596	74.000
9848.000	13.367	36.310	49.677	-24.323	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u6]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)(2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4824.000	3.261	37.630	40.891	-33.109	74.000
7236.000	10.650	35.850	46.500	-27.500	74.000
9648.000	13.337	36.130	49.466	-24.534	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4824.000	6.421	38.370	44.791	-29.209	74.000
7236.000	11.495	36.240	47.735	-26.265	74.000
9648.000	13.807	36.450	50.256	-23.744	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u7]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4874.000	3.038	37.090	40.127	-33.873	74.000
7311.000	11.795	35.250	47.044	-26.956	74.000
9748.000	12.635	36.680	49.315	-24.685	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4874.000	5.812	37.000	42.811	-31.189	74.000
7311.000	12.630	35.330	47.959	-26.041	74.000
9748.000	13.126	36.410	49.536	-24.464	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u8]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4924.000	2.858	37.580	40.437	-33.563	74.000
7386.000	12.127	35.090	47.218	-26.782	74.000
9848.000	12.852	36.940	49.793	-24.207	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4924.000	5.521	38.920	44.440	-29.560	74.000
7386.000	13.254	34.890	48.144	-25.856	74.000
9848.000	13.367	36.100	49.467	-24.533	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product : PC to TV Transmitter[u9]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2422MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
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**Horizontal**

**Peak Detector:**

4844.000	3.171	39.340	42.511	-31.489	74.000
7266.000	11.162	36.170	47.332	-26.668	74.000
9688.000	12.964	36.910	49.875	-24.125	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4844.000	6.178	39.790	45.968	-28.032	74.000
7266.000	11.982	36.360	48.342	-25.658	74.000
9688.000	13.507	37.800	51.308	-22.692	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u10]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4874.000	3.038	39.950	42.987	-31.013	74.000
7311.000	11.795	35.850	47.644	-26.356	74.000
9748.000	12.635	37.230	49.865	-24.135	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4874.000	5.812	39.850	45.661	-28.339	74.000
7311.000	12.630	36.170	48.799	-25.201	74.000
9748.000	13.126	36.860	49.986	-24.014	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u11]  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2452 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4904.000	2.914	40.500	43.415	-30.585	74.000
7356.000	11.995	35.140	47.134	-26.866	74.000
9808.000	12.475	36.950	49.425	-24.575	74.000

**Average Detector:**

--

**Vertical**

**Peak Detector:**

4904.000	5.530	41.660	47.191	-26.809	74.000
7356.000	13.005	35.860	48.864	-25.136	74.000
9808.000	12.901	36.730	49.631	-24.369	74.000

**Average Detector:**

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u12]  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
57.214	-13.820	39.064	25.244	-14.756	40.000
241.884	-9.371	43.404	34.033	-11.967	46.000
366.293	-4.134	38.508	34.374	-11.626	46.000
409.058	-2.027	40.513	38.486	-7.514	46.000
432.385	-1.754	35.535	33.781	-12.219	46.000
961.122	3.701	40.367	44.068	-9.932	54.000
<b>Vertical</b>					
57.214	-15.504	45.326	29.822	-10.178	40.000
115.531	-9.208	38.857	29.649	-13.851	43.500
409.058	-2.845	38.984	36.139	-9.861	46.000
607.335	-0.077	31.892	31.815	-14.185	46.000
747.295	0.621	33.882	34.503	-11.497	46.000
961.122	4.452	35.943	40.395	-13.605	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u13]  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
57.214	-13.820	39.313	25.493	-14.507	40.000
234.108	-9.784	47.041	37.257	-8.743	46.000
383.788	-3.224	36.300	33.076	-12.924	46.000
414.890	-2.044	35.715	33.671	-12.329	46.000
840.601	2.982	31.793	34.775	-11.225	46.000
961.122	3.701	37.939	41.640	-12.360	54.000
<b>Vertical</b>					
55.271	-15.148	48.490	33.342	-6.658	40.000
117.475	-9.637	38.151	28.513	-14.987	43.500
414.890	-2.884	37.891	35.007	-10.993	46.000
607.335	-0.077	32.264	32.187	-13.813	46.000
784.228	1.382	30.463	31.845	-14.155	46.000
961.122	4.452	38.762	43.214	-10.786	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u14]  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
57.214	-13.820	40.586	26.766	-13.234	40.000
232.164	-10.002	38.681	28.679	-17.321	46.000
414.890	-2.044	39.573	37.529	-8.471	46.000
430.441	-1.826	39.702	37.876	-8.124	46.000
700.641	1.863	28.573	30.436	-15.564	46.000
961.122	3.701	36.865	40.566	-13.434	54.000
<b>Vertical</b>					
57.214	-15.504	45.835	30.331	-9.669	40.000
117.475	-9.637	40.098	30.460	-13.040	43.500
175.792	-6.301	41.215	34.914	-8.586	43.500
414.890	-2.884	37.041	34.157	-11.843	46.000
751.182	0.600	30.643	31.243	-14.757	46.000
961.122	4.452	40.517	44.969	-9.031	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : PC to TV Transmitter[u15]  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
120.004	-16.256	41.300	25.044	-18.456	43.500
240.000	-14.770	50.400	35.630	-10.370	46.000
360.001	-12.159	51.600	39.441	-6.559	46.000
480.003	-9.212	30.400	21.188	-24.812	46.000
720.001	-4.397	34.600	30.203	-15.797	46.000
840.001	-3.279	45.400	42.121	-3.879	46.000
<b>Vertical</b>					
120.001	-16.088	48.300	32.212	-11.288	43.500
240.002	-17.136	55.500	38.364	-7.636	46.000
360.000	-12.382	52.100	39.718	-6.282	46.000
480.001	-9.212	43.100	33.888	-12.112	46.000
720.003	-6.890	33.500	26.610	-19.390	46.000
840.000	-3.279	39.600	36.321	-9.679	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

**5. RF antenna conducted test**

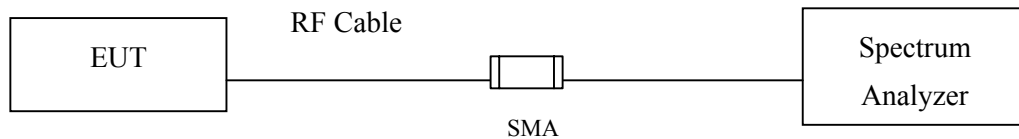
**5.1. Test Equipment**

	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., 2011

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.

**5.2. Test Setup**

**RF antenna Conducted Measurement:**



**5.3. Limits**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

**5.4. Test Procedure**

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.



## 5.5. Uncertainty

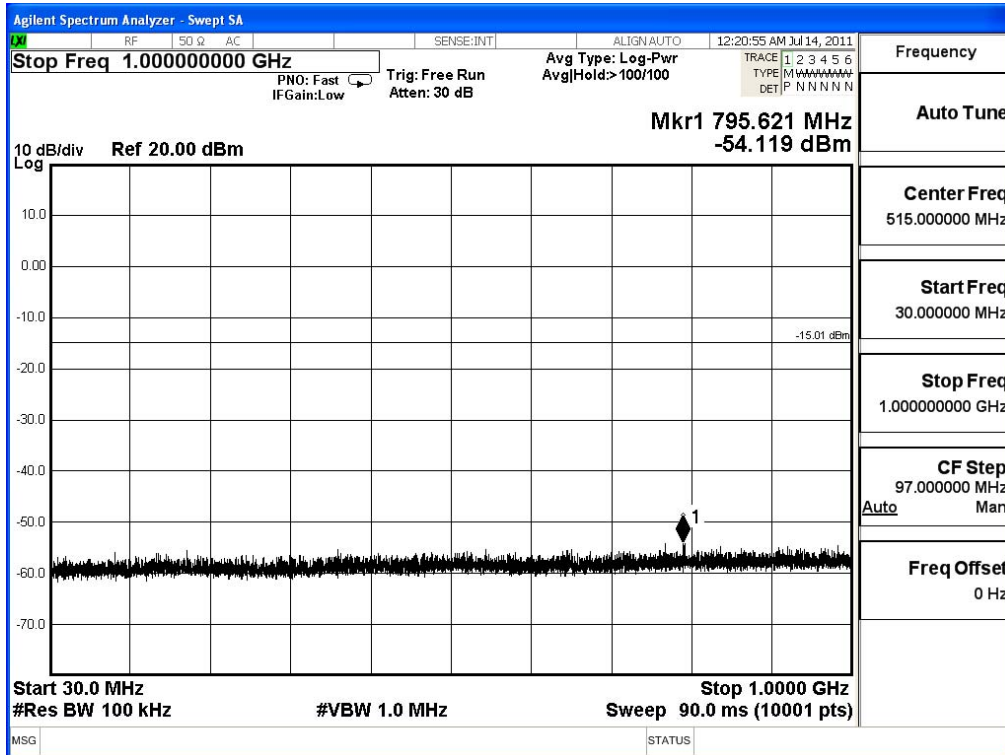
The measurement uncertainty

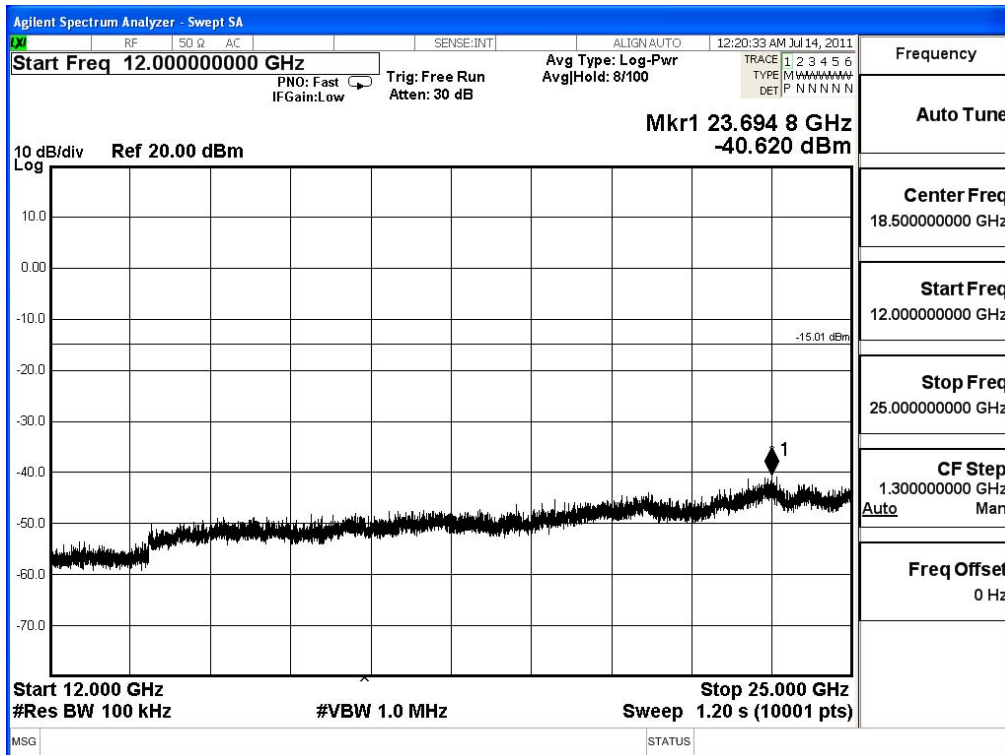
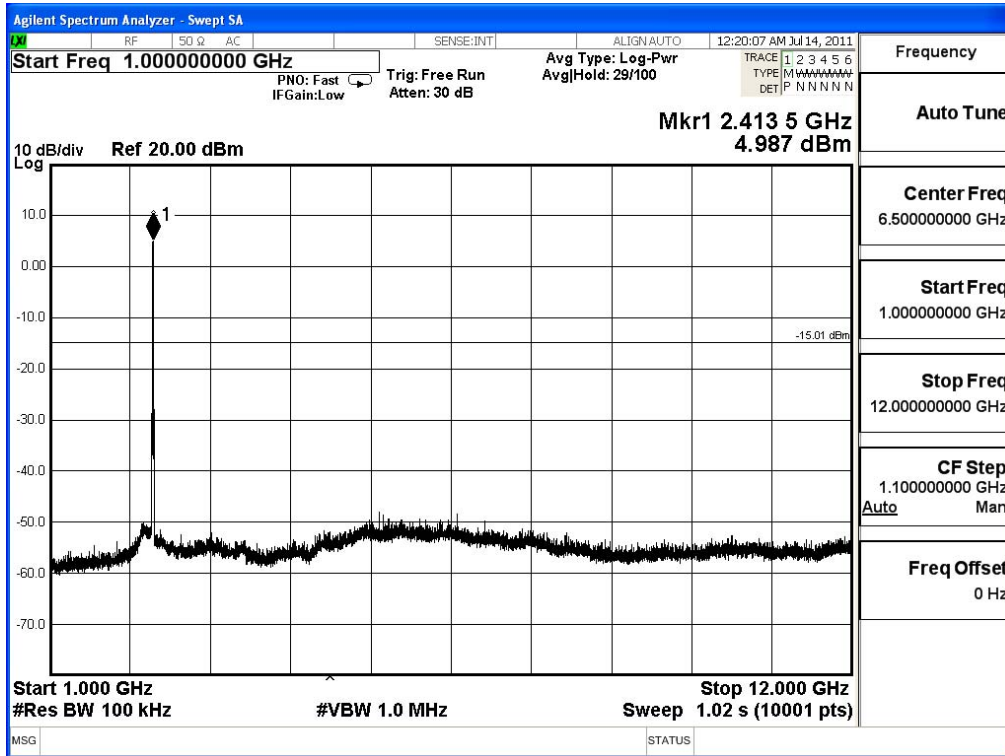
Conducted is defined as  $\pm 1.27\text{dB}$

**5.6. Test Result of RF antenna conducted test**

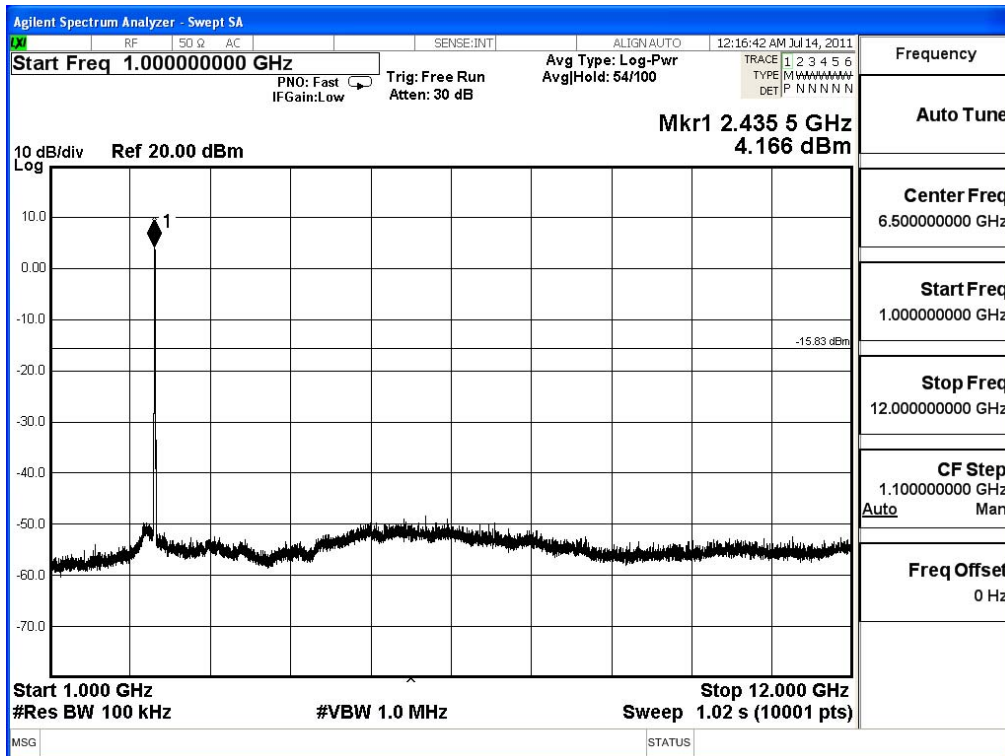
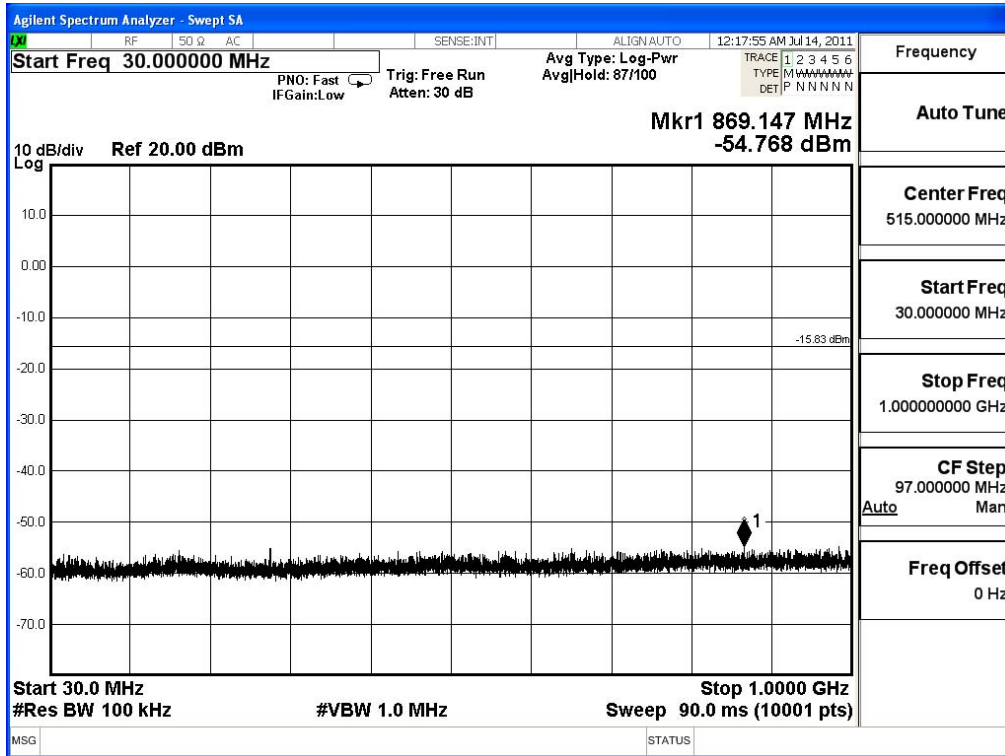
Product : PC to TV Transmitter  
 Test Item : RF antenna conducted test  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

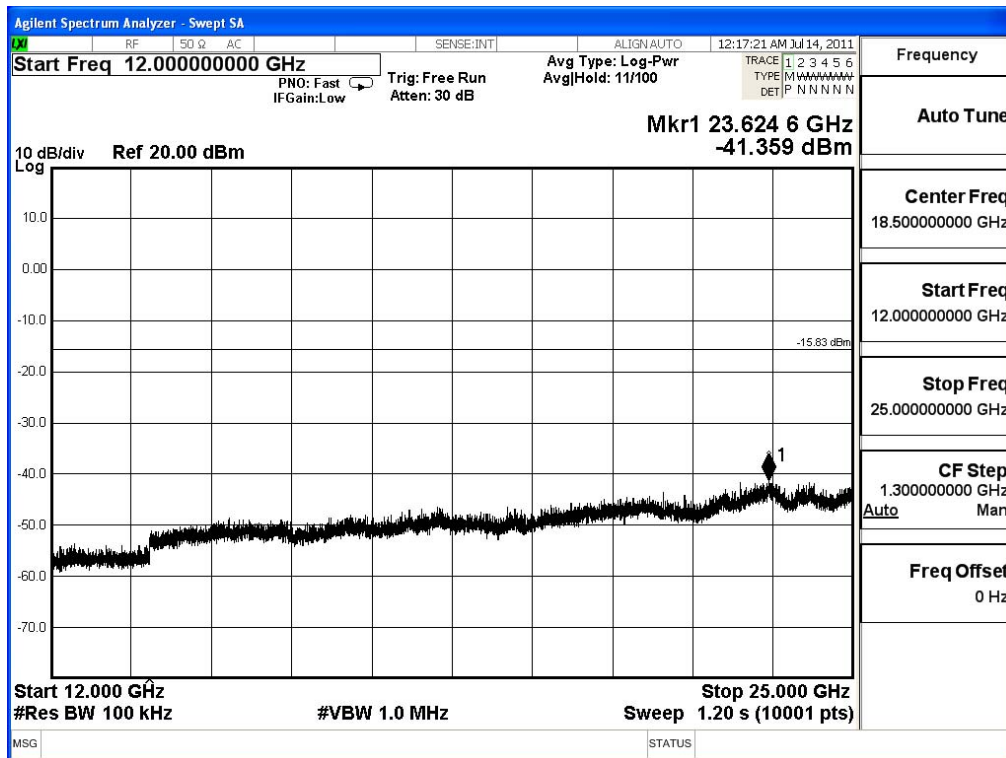
**Channel 01 (2412MHz)**



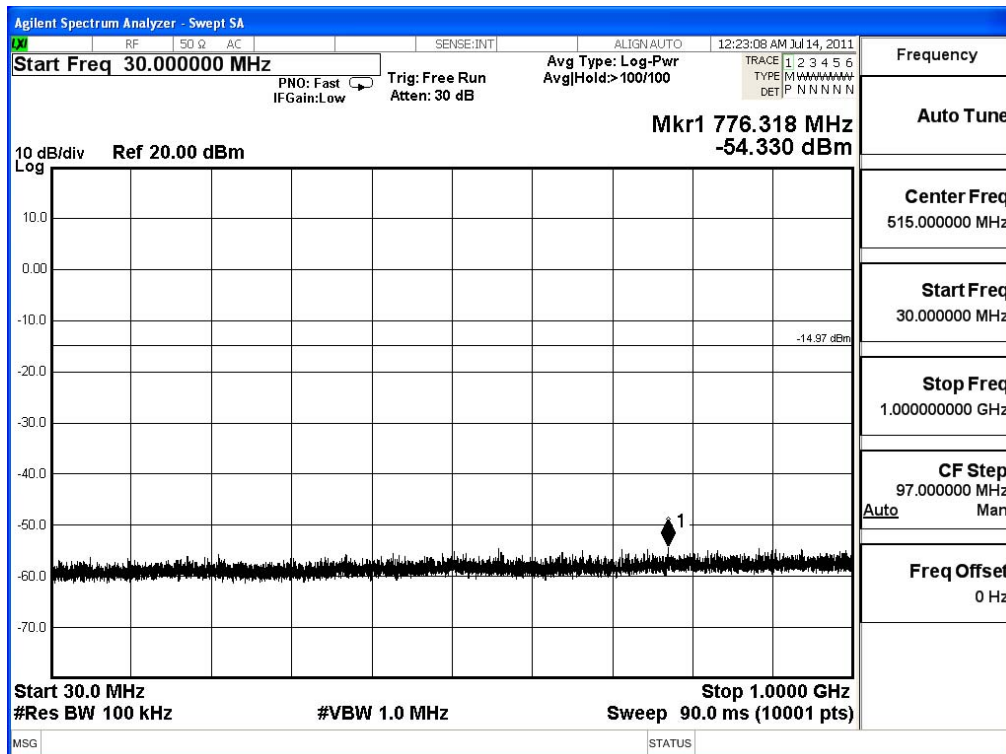


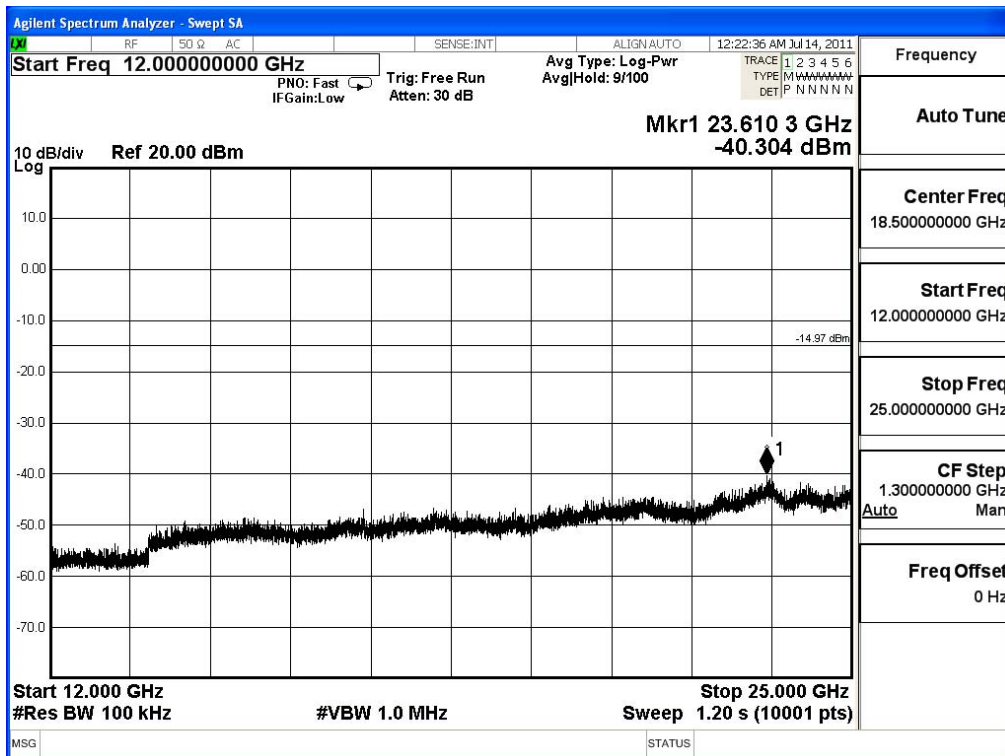
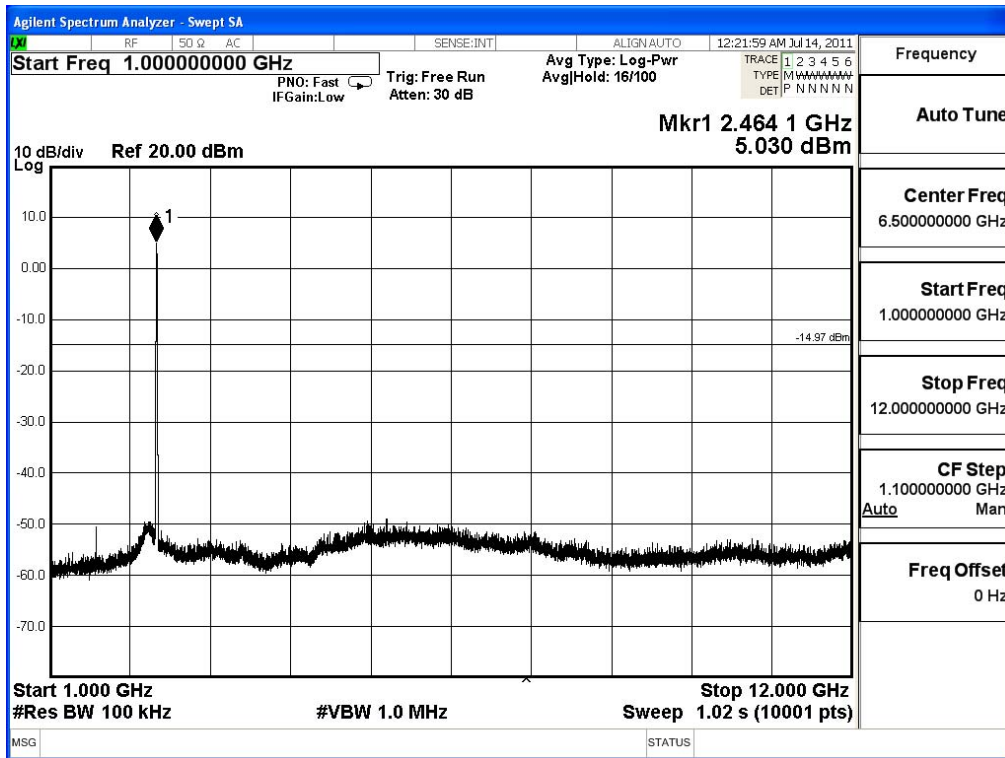
**Channel 06 (2437MHz)**





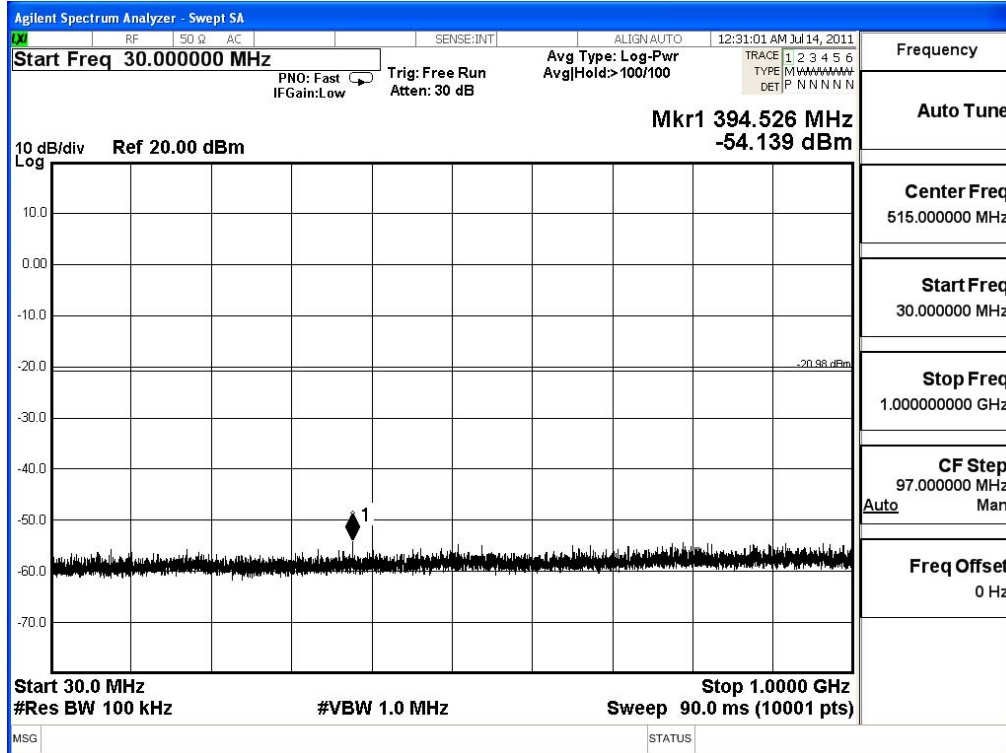
Channel 11 (2462MHz)

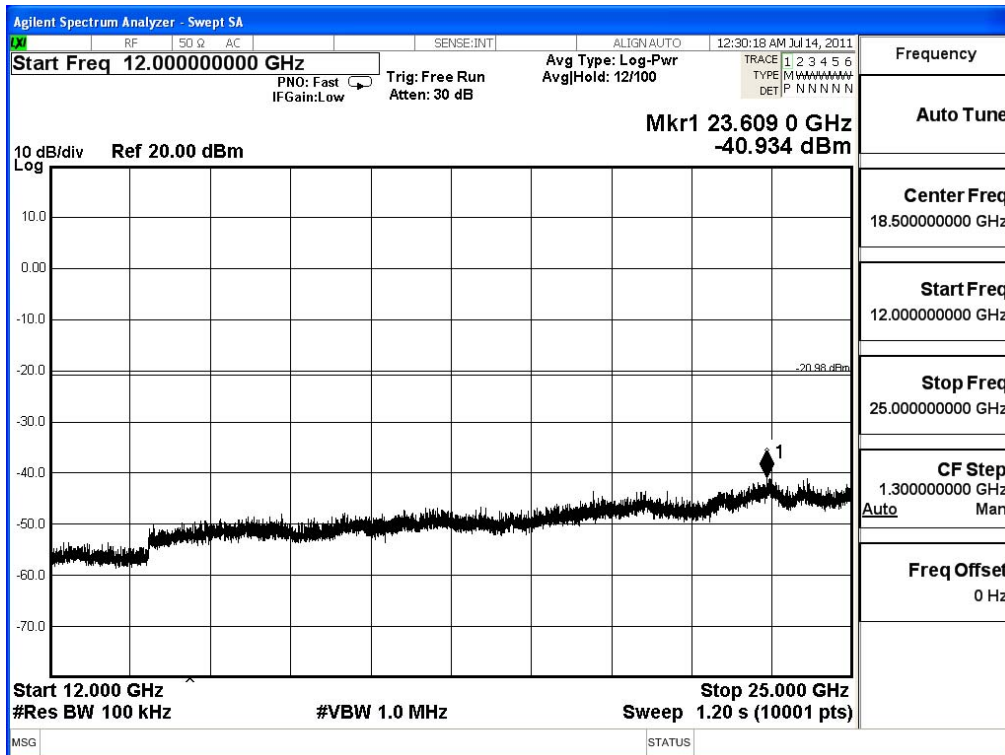
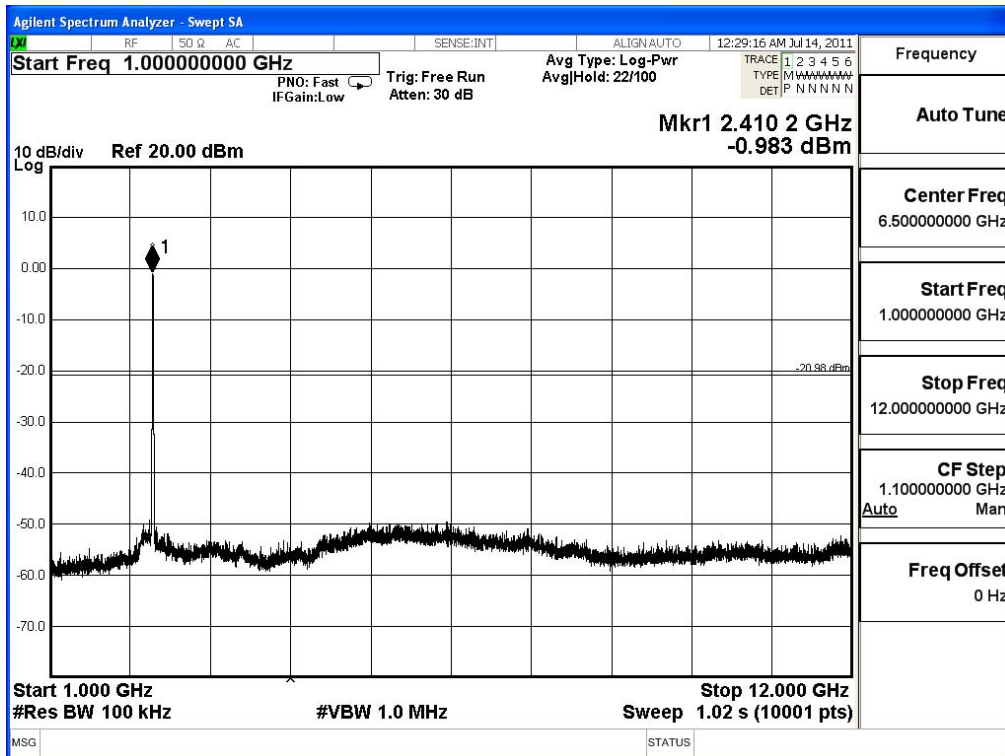




Product : PC to TV Transmitter [u16]  
 Test Item : RF Antenna Conducted Spurious  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)

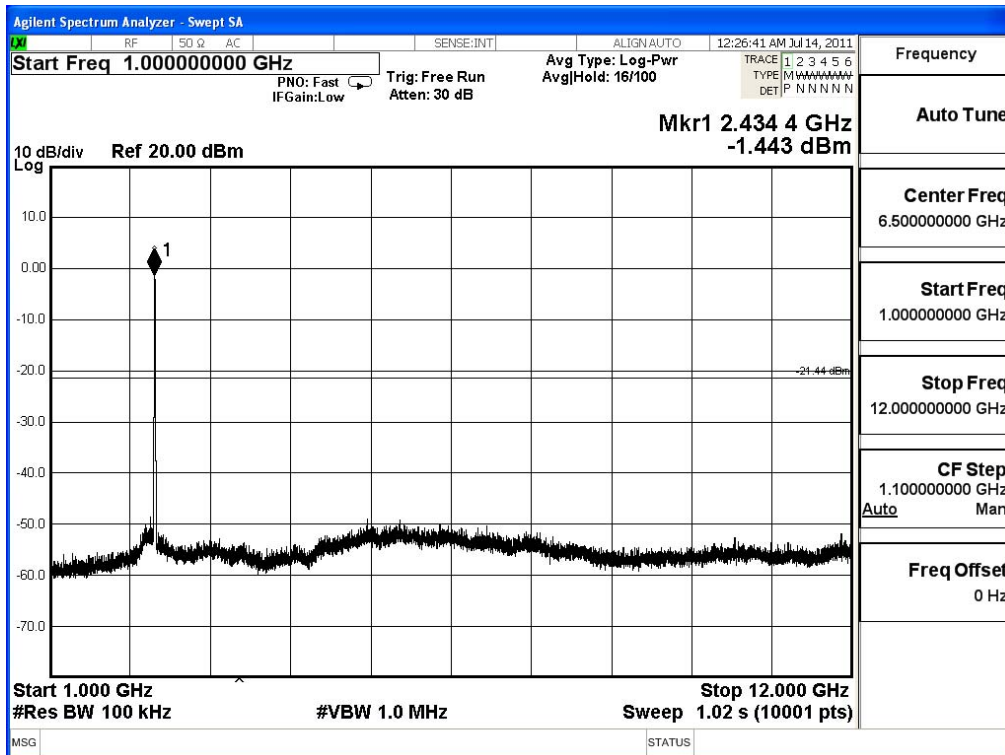
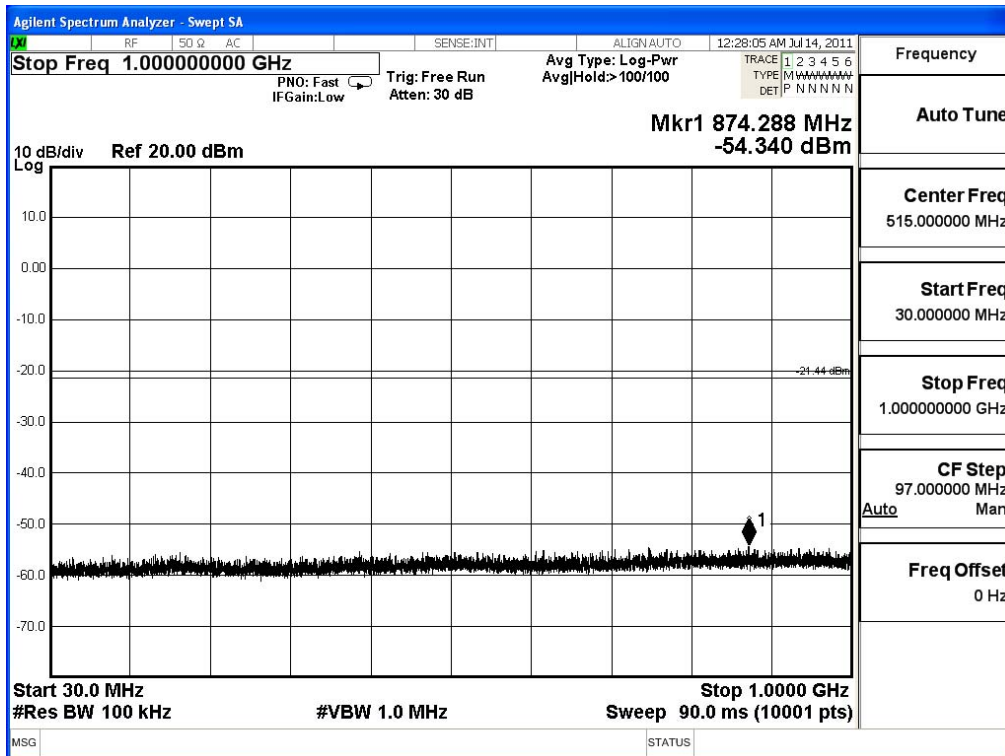
**Channel 01 (2412MHz)**

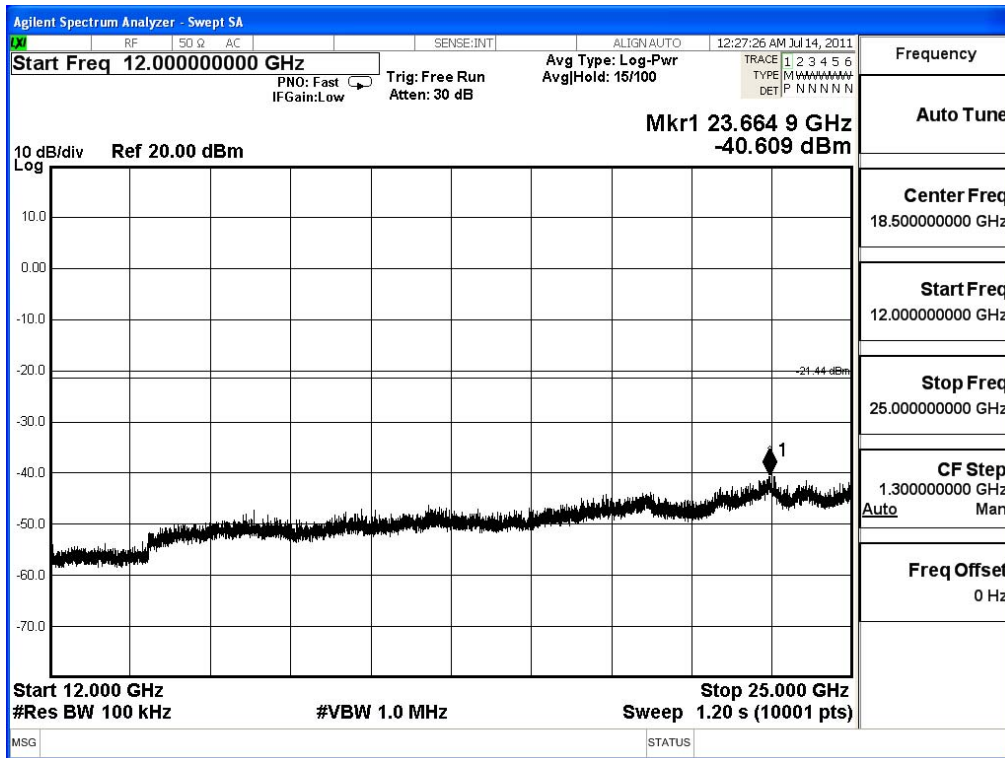




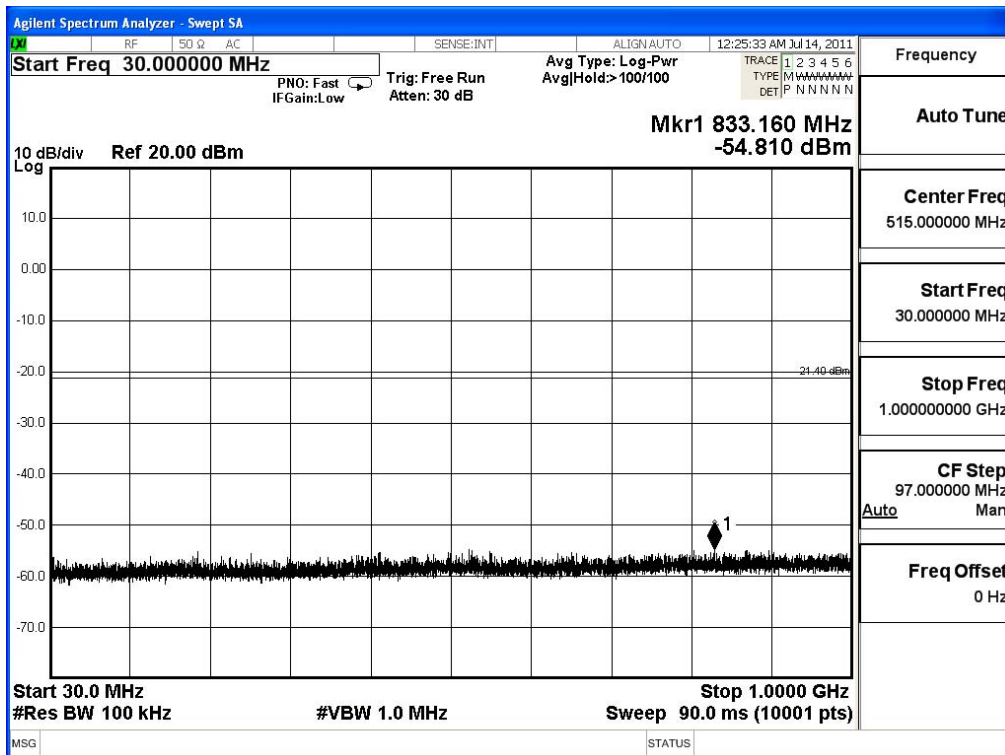


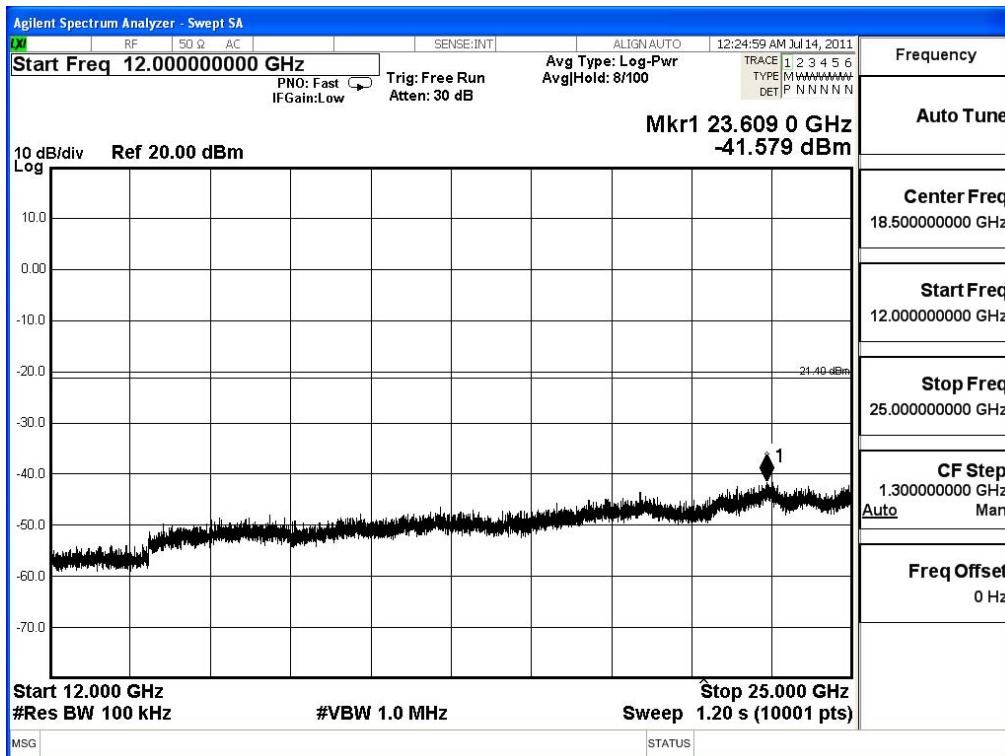
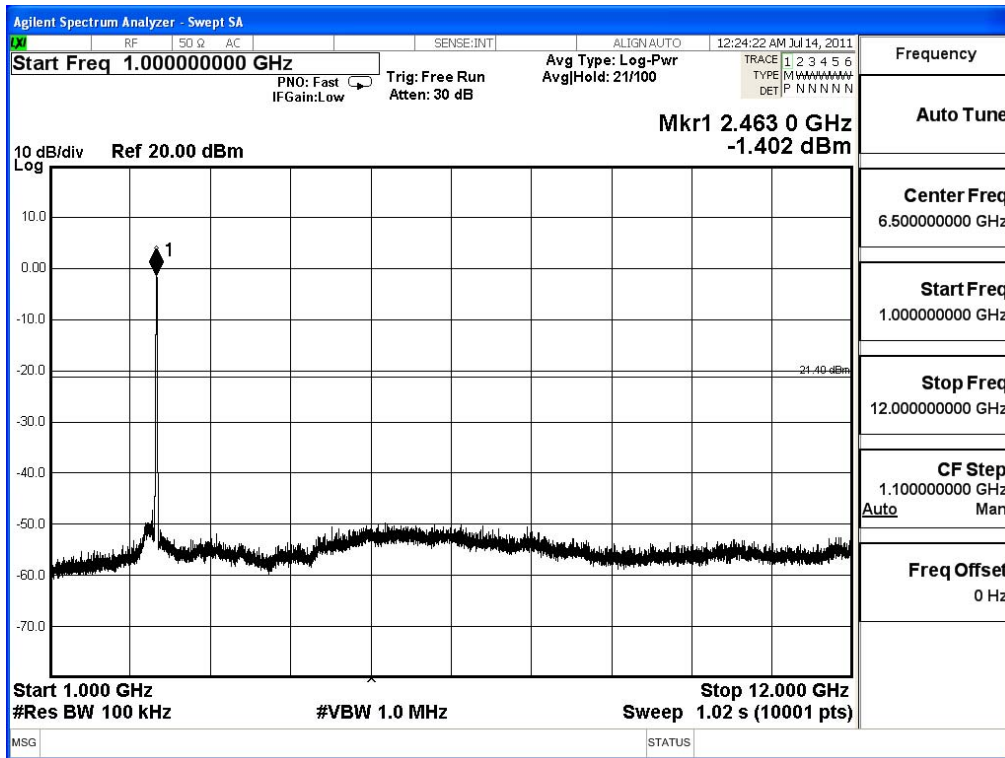
**Channel 06 (2437MHz)**





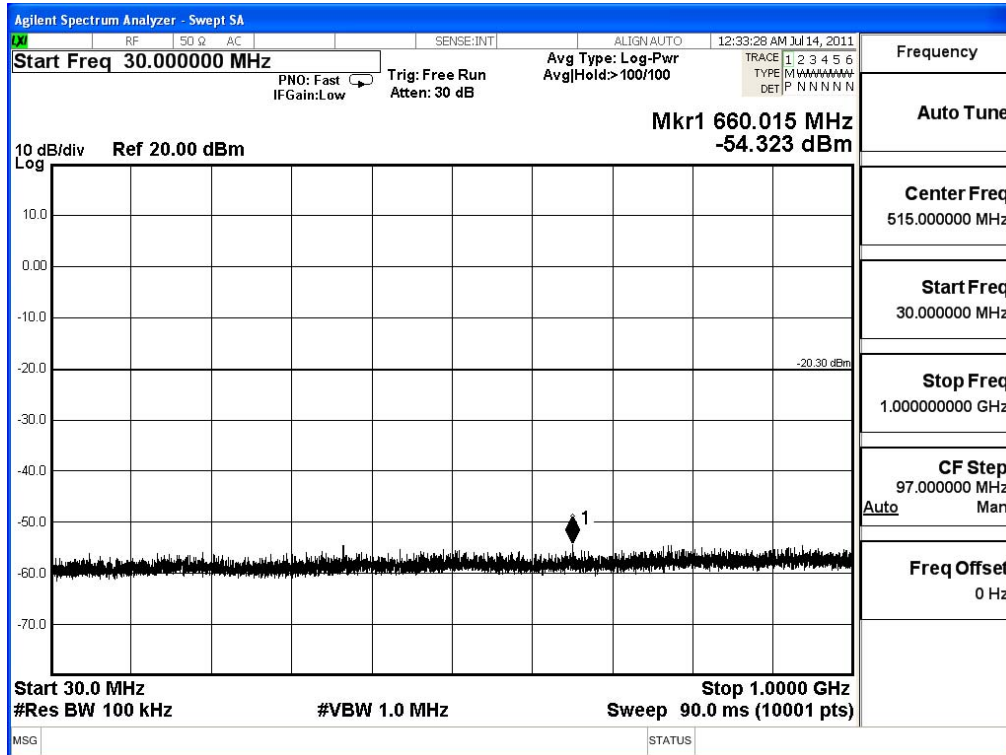
Channel 11 (2462MHz)

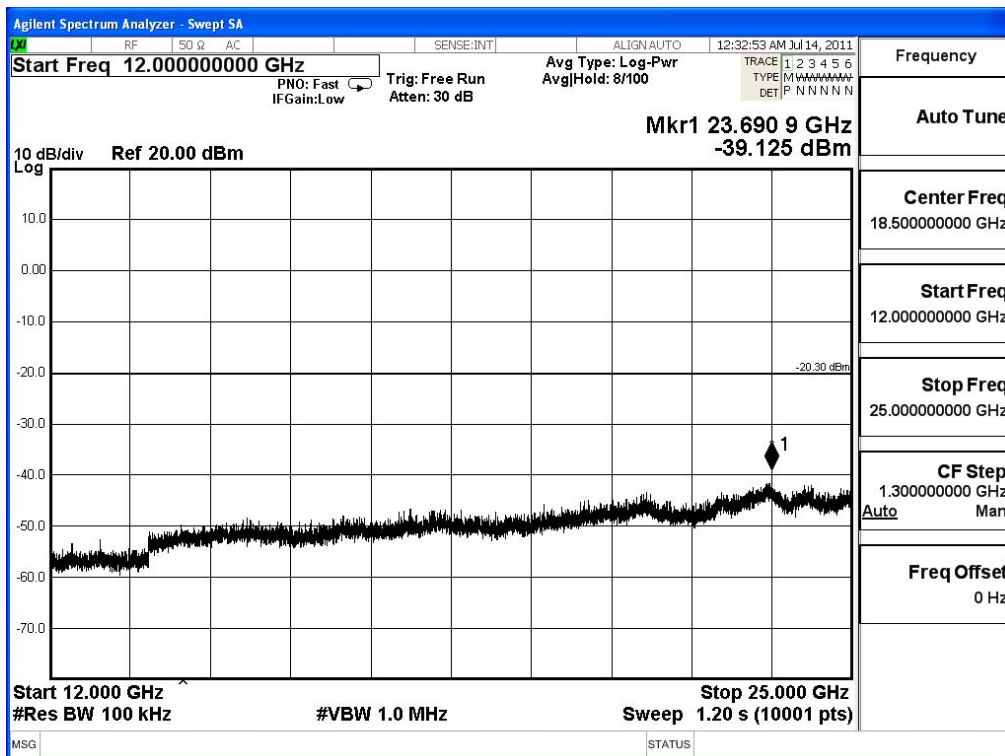
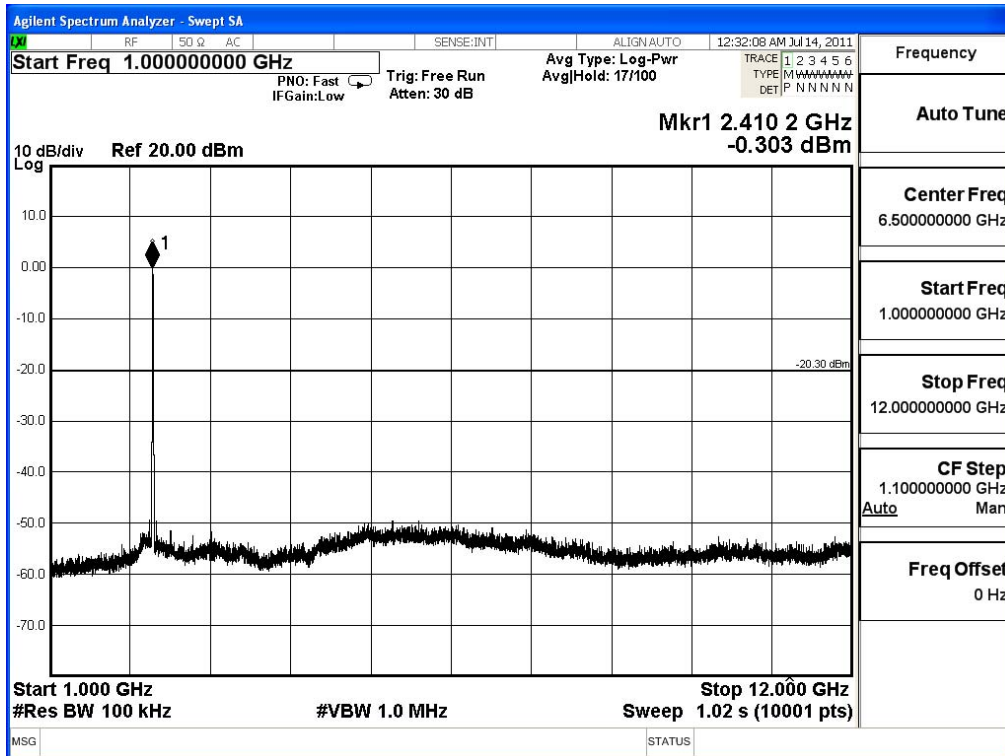




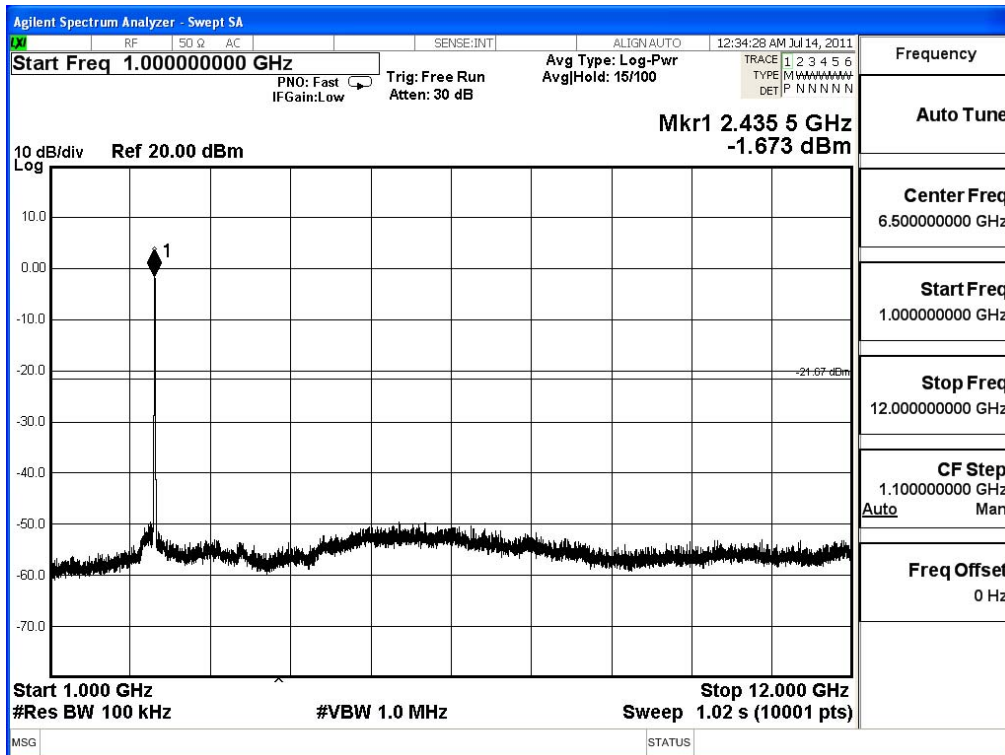
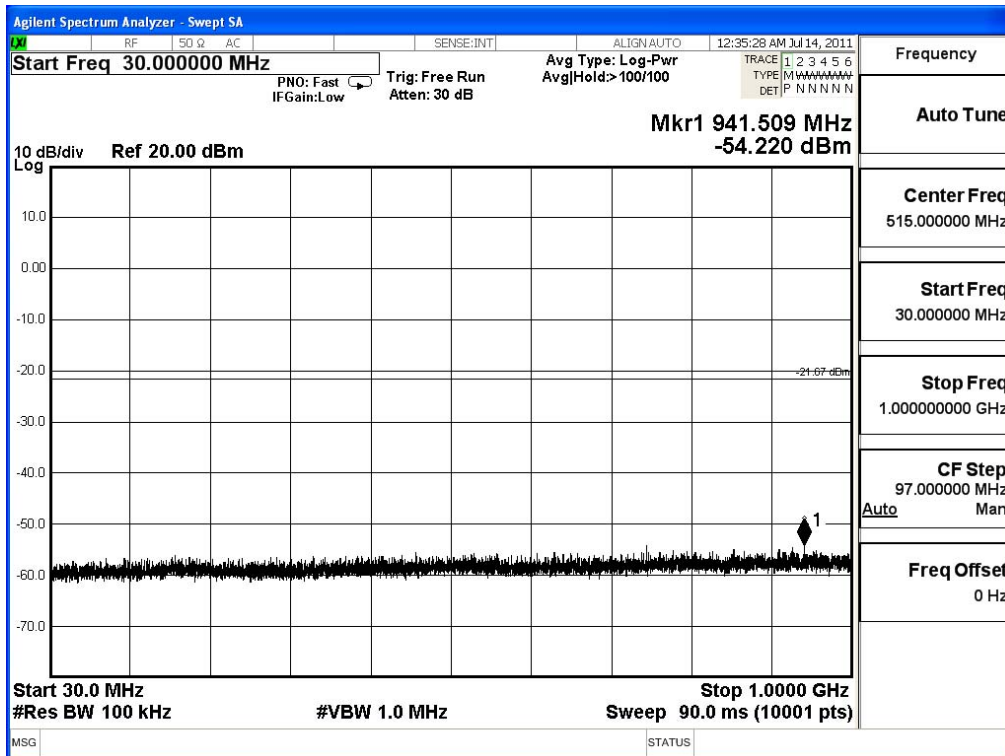
Product : PC to TV Transmitter  
 Test Item : RF Antenna Conducted Spurious  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

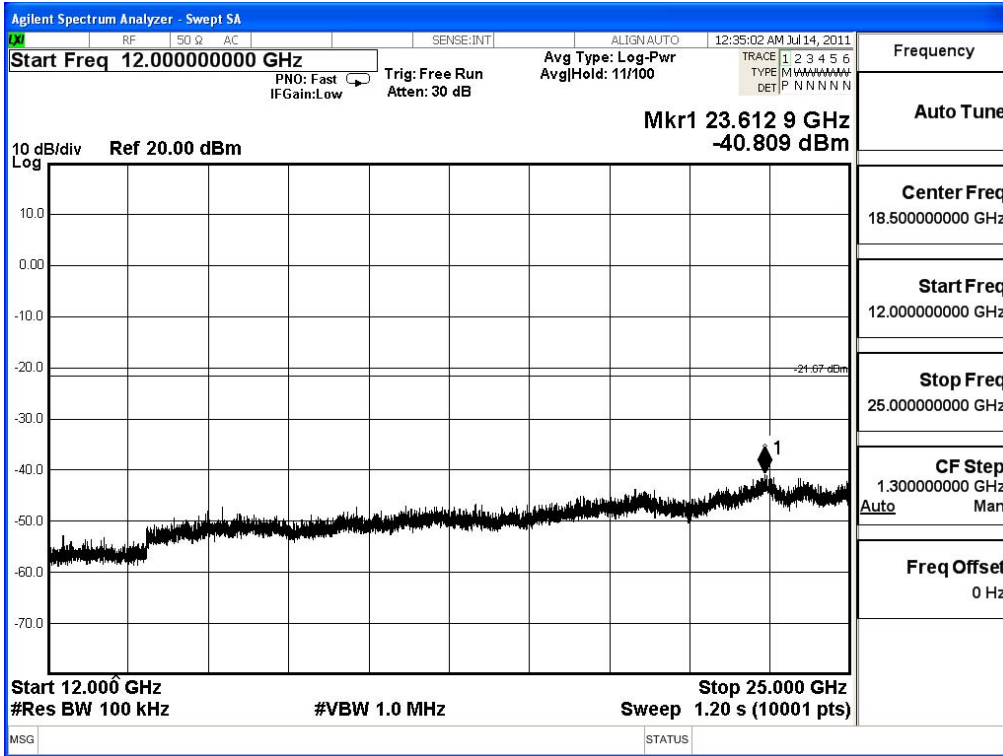
**Channel 01 (2412MHz)**





Channel 06 (2437MHz)





Channel 11 (2462MHz)

