



Test Report

| | |
|--------------|---------------|
| Product Name | WHDI Rx board |
| Model No | WV301A |
| FCC ID. | PPQ-WV301A |

| | |
|-----------|--|
| Applicant | LITE-ON TECHNOLOGY CORP. |
| Address | 4F, 90, Chien 1 Road, Chung Ho, Taipei Hsien 235, Taiwan, R.O.C. |

| | |
|-----------------|--------------------|
| Date of Receipt | Sep. 16, 2011 |
| Issue Date | Oct. 14, 2011 |
| Report No. | 119322R-RFUSP28V01 |
| Report Version | V1.0 |

The test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issue Date: Oct. 14, 2011
Report No.: 119322R-RFUSP28V01



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

| | |
|---------------------|--|
| Product Name | WHDI Rx board |
| Applicant | LITE-ON TECHNOLOGY CORP. |
| Address | 4F, 90, Chien 1 Road, Chung Ho, Taipei Hsien 235, Taiwan, R.O.C. |
| Manufacturer | DONG GUAN G-COM COMPUTER CO., LTD |
| Model No. | WV301A |
| EUT Rated Voltage | DC 5V |
| EUT Test Voltage | AC 120V/60Hz |
| Trade Name | LITE-ON |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2010 ANSI C63.4: 2009 |
| Test Result | Complied |



The test results relate only to the samples tested.

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(Senior Engineering Adm. Specialist /
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Tested By :

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Testing Laboratory
0914

Approved By :

(Manager / Vincent Lin)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

| | |
|--------------------|---|
| Product Name | WHDI Rx board |
| Trade Name | LITE-ON |
| Model No. | WV301A |
| FCC ID. | PPQ-WV301A |
| Frequency Range | 20MHz-BW:5745-5825MHz , 40MHz-BW:5755-5795MHz |
| Number of Channels | 20MHz-BW: 5, 40MHz-BW: 2 |
| Data Speed | 20MHz mode: 30kbps, 40MHz mode: 60kbps |
| Channel separation | 20MHz-BW: 20MHz, 40MHz-BW: 40MHz |
| Type of Modulation | OFDM |
| Antenna Type | Printed on PCB (PIFA) |
| Antenna Gain | Refer to the table "Antenna List" |
| Channel Control | Auto |
| Power Adapter | MFR: Asian, M/N: WA-15C05R Input: AC 100-240V, 50-60Hz, 0.5A Max. Output: DC 5V, 3A Cable Out: Shielded, 1.5m, with one ferrite core bonded. |

Antenna List

| No. | Manufacturer | Part No. | Peak Gain |
|-----|--------------|----------|---------------|
| 1 | LITE-ON | N/A | 2dBi for 5GHz |

Note: The antenna of EUT is conform to FCC 15.203

20MHz Center Working Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| Channel 149: | 5745 MHz | Channel 153: | 5765 MHz | Channel 157: | 5785 MHz | Channel 161: | 5805 MHz |
| Channel 165: | 5825 MHz | | | | | | |

40MHz Center Working Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency |
|--------------|-----------|--------------|-----------|
| Channel 151: | 5755 MHz | Channel 159: | 5795 MHz |

Note:

1. This device is a WHDI Rx board with a built-in and 5GHz WLAN transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. These tests are conducted on a sample for the purpose of demonstrating compliance of 5GHz transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

The EUT is a Full HD Video Wireless Receiver Module with a built-in 5GHz transceiver, together with Full HD Video Wireless Transmitter Module. It has a MISO design of five channel and one slow rate output wireless channel, which generates an upstream channel for data content transmissions.

The data modulation is OFDM, using five antennas to support 1(Transmit) * 5(Receive) technology. The device only provided one transmitting speed 30kbps in 20MHz bandwidth mode and 60kbps in 40MHz bandwidth mode.

Presents the ultimate solution for converting any High Definition (HD) system, including Full HD, into a wireless one. These add-on modules enable wireless A/V applications that fit easily into the living room and eliminate traditional A/V wiring. The perfect HD video and audio quality and the high robustness are unmatched by any other wireless technology and present a true alternative to cable. The WHDI system transmits uncompressed video and audio streams wirelessly and thus simplifies and eliminates system issues, such as: lip-sync, large buffers and other burdens like retransmissions or error propagation.

The device can receive audio and video signal from associate equipment, device will transmit signal to request associate equipment change transmission frequency. The IC AMN2220 WHDI baseband receiver chip is the heart of the WV301A WHDI Receiver module. The AMN2220 interfaces the A/V sink through the WHDI connector and is controlled by the internal MAC uC. The AMN2220 is based on MIMO technology receiving up to five input channels. Five analog-to-digital converters and one digital-to-analog converter are embedded within the chip.

The AMN2220 internal PLL accepts an input clock frequency of 40MHz. The input frequency is multiplied and then used as an internal system clock. The IC AMN3210 is a fully-integrated Zero-IF MIMO receiver specifically designed for WHDI applications using OFDM modulation for single-band 5.15 -5.25GHz and 5.725 - 5.85 GHz. The device consists of:

- Five Complete Downlink Zero-IF Receivers.
- One Uplink Direct Conversion Transmitter.
- Integrated Synthesizer/VCO.
- Internal DC Servo Loops.
- RSSI, RF and Baseband Control Interface.
- Power Management Unit.
- 3-Wire SPI Interface.

To complete the RF front-end solution, the AMN3210 uses external PA, RF Band Pass Filters (BPF), RF BALUNs and a few passive components.

| | |
|------------|-------------------------|
| Test Mode: | Mode 1: Transmit - 20BW |
| | Mode 2: Transmit - 40BW |

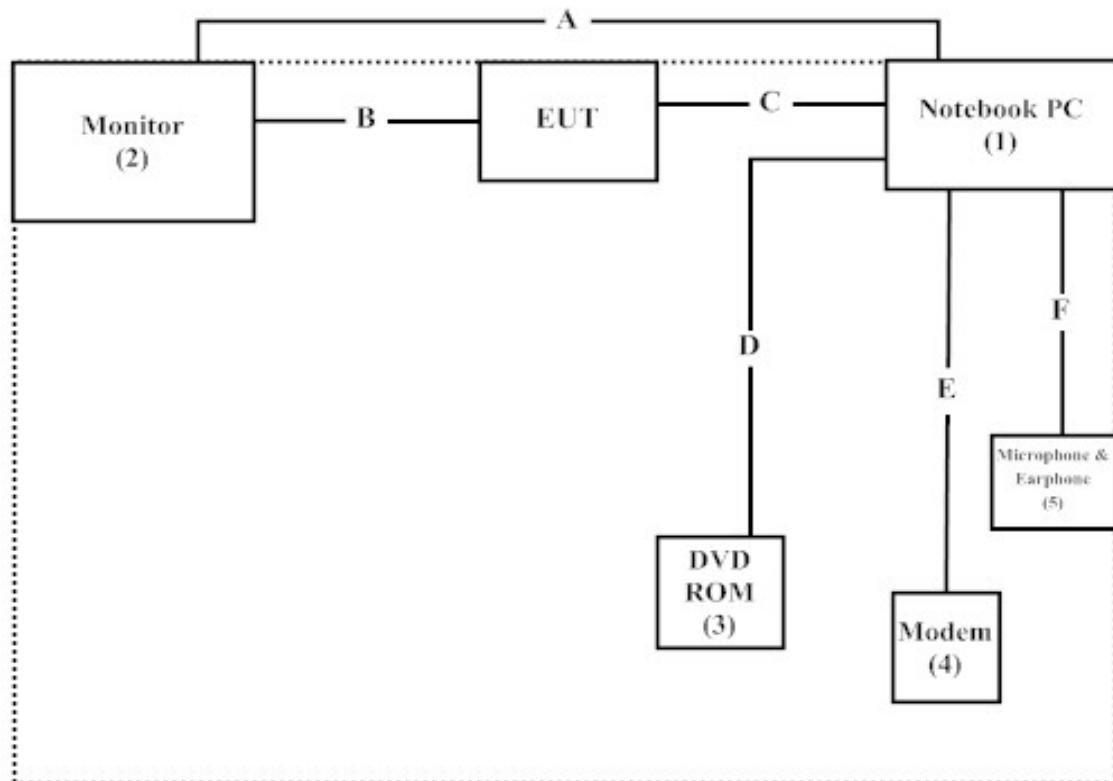
1.3. Tested System Details

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) | Monitor | LG | W2261VT | 907YHZK07373 | Non-Shielded, 1.8m |
| (3) | DVD ROM | DELL | PD01S | 03029 | N/A |
| (4) | Modem | ACEEX | DM-1414 | 0102027550 | Non-Shielded, 1.8m |
| (5) | Microphone & Earphone | Ergotech | ET-E201 | N/A | N/A |

| Signal Cable Type | | Signal cable Description |
|-------------------|-----------------------------|--|
| A | VGA Cable | Shielded, 1.8m, with two ferrite cores bonded. |
| B | HDMI Cable | Shielded, 1.2m |
| C | USB Cable | Shielded, 1.2m |
| D | DVD ROM Cable | Shielded, 0.6m |
| E | Modem Cable | Non-Shielded, 1.8m |
| F | Microphone & Earphone Cable | Non-Shielded, 1.0m |

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute “APPcom” program on the Notebook.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous Transmit.
- (5) 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

Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195



Accreditation on NVLAP
NVLAP Lab Code: 200533-0



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FCC Accreditation Number: TW1014



2. Conducted Emission

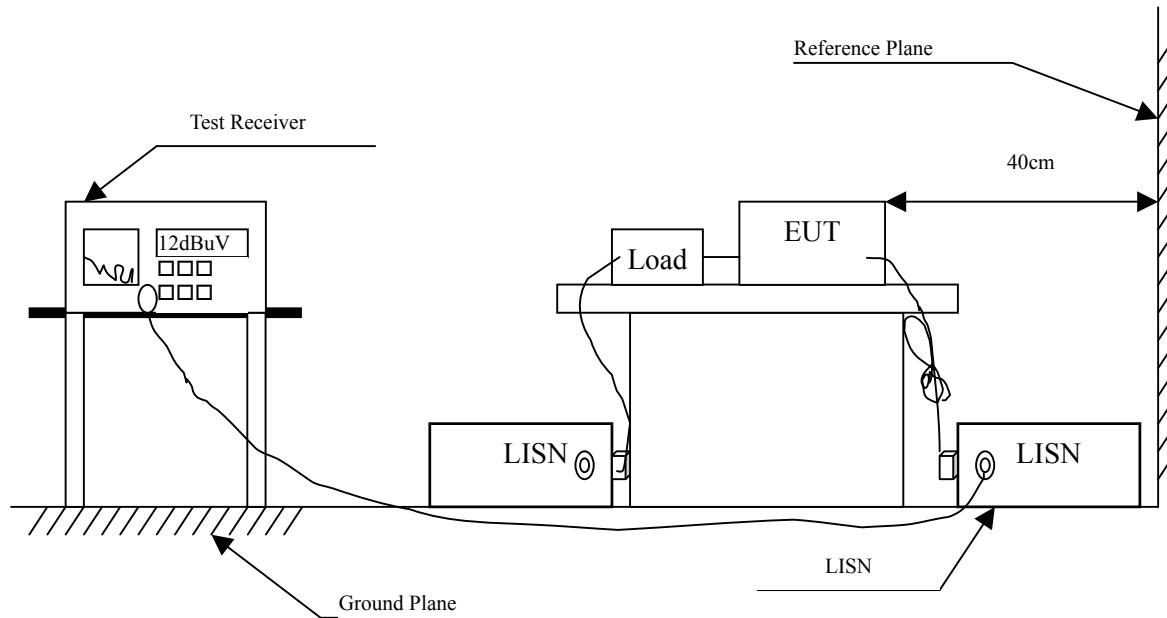
2.1. Test Equipment

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.8 Shielded Room | | | N/A | |

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit | | |
|--|--------|-------|
| 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 : WHDI Rx board
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmit - 40BW (5755MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|-------------------|----------------|---------------|-------------------|---------|--------|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| Line 1 | | | | | |
| Quasi-Peak | | | | | |
| 0.201 | 9.706 | 50.020 | 59.726 | -4.817 | 64.543 |
| 0.259 | 9.670 | 40.860 | 50.530 | -12.356 | 62.886 |
| 0.459 | 9.640 | 37.120 | 46.760 | -10.411 | 57.171 |
| 0.732 | 9.635 | 40.580 | 50.215 | -5.785 | 56.000 |
| 1.541 | 9.680 | 25.980 | 35.660 | -20.340 | 56.000 |
| 15.021 | 9.990 | 33.420 | 43.410 | -16.590 | 60.000 |
| Average | | | | | |
| 0.201 | 9.706 | 37.450 | 47.156 | -7.387 | 54.543 |
| 0.259 | 9.670 | 26.750 | 36.420 | -16.466 | 52.886 |
| 0.459 | 9.640 | 26.320 | 35.960 | -11.211 | 47.171 |
| 0.732 | 9.635 | 32.010 | 41.645 | -4.355 | 46.000 |
| 1.541 | 9.680 | 13.120 | 22.800 | -23.200 | 46.000 |
| 15.021 | 9.990 | 25.220 | 35.210 | -14.790 | 50.000 |

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 : WHDI Rx board
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmit - 40BW (5755MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|-------------------|----------------|---------------|-------------------|---------|--------|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| Line 2 | | | | | |
| Quasi-Peak | | | | | |
| 0.201 | 9.716 | 51.780 | 61.496 | -3.047 | 64.543 |
| 0.330 | 9.660 | 41.280 | 50.940 | -9.917 | 60.857 |
| 0.443 | 9.645 | 41.160 | 50.805 | -6.824 | 57.629 |
| 0.759 | 9.664 | 40.640 | 50.304 | -5.696 | 56.000 |
| 1.517 | 9.680 | 28.160 | 37.840 | -18.160 | 56.000 |
| 15.088 | 10.000 | 32.760 | 42.760 | -17.240 | 60.000 |
| Average | | | | | |
| 0.201 | 9.716 | 39.040 | 48.756 | -5.787 | 54.543 |
| 0.330 | 9.660 | 29.470 | 39.130 | -11.727 | 50.857 |
| 0.443 | 9.645 | 28.350 | 37.995 | -9.634 | 47.629 |
| 0.759 | 9.664 | 32.120 | 41.784 | -4.216 | 46.000 |
| 1.517 | 9.680 | 15.350 | 25.030 | -20.970 | 46.000 |
| 15.088 | 10.000 | 24.110 | 34.110 | -15.890 | 50.000 |

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

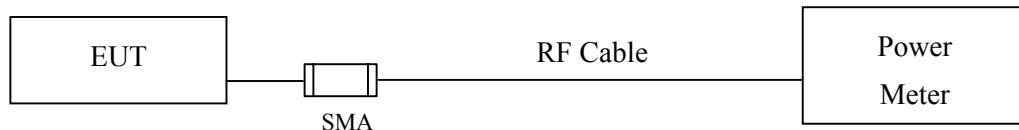
| Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|----------------|--------------|----------------------|-----------|
| X Power Meter | Anritsu | ML2495A/6K00003357 | May, 2011 |
| X Power Sensor | Anritsu | MA2411B/0738448 | Jun, 2011 |

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

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : WHDI Rx board
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit - 20BW

| Frequency (MHz) | Measurement (dBm) | Required Limit | Result |
|-----------------|-------------------|----------------|--------|
| 5745 | 23.73 | <30dBm | Pass |
| 5785 | 24.16 | <30dBm | Pass |
| 5825 | 23.93 | <30dBm | Pass |

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

Product : WHDI Rx board
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit - 40BW

| Frequency (MHz) | Measurement (dBm) | Required Limit | Result |
|--------------------|----------------------|-------------------|--------|
| 5755 | 24.36 | <30dBm | Pass |
| 5795 | 24.29 | <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:

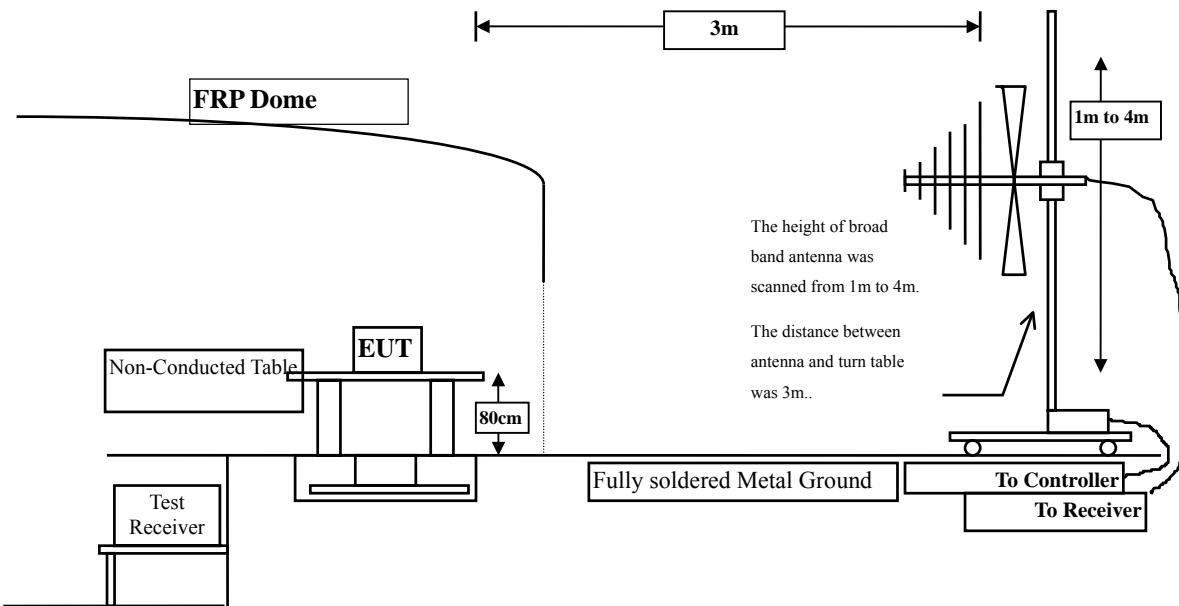
| Test Site | Equipment | | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|-----------|-------------------|-----------------|-----------------------------|------------|
| ☒Site # 3 | X | Bilog Antenna | Schaffner Chase | CBL6112B/2673 | Sep., 2011 |
| | X | Horn Antenna | Schwarzbeck | BBHA9120D/D305 | Sep., 2011 |
| | X | Horn Antenna | Schwarzbeck | BBHA9170/208 | Jul., 2011 |
| | X | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2011 |
| | X | Pre-Amplifier | QTK | AP-180C / CHM_0906076 | Sep., 2011 |
| | X | Pre-Amplifier | MITEQ | AMF-4D-180400-45-6P/ 925975 | Mar, 2011 |
| | X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2011 |
| | X | Test Receiver | R & S | ESCS 30/ 825442/018 | Sep., 2011 |
| | X | Coaxial Cable | QuiTek | QTK-CABLE/ CAB5 | Feb., 2011 |
| | X | Controller | QuiTek | 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.

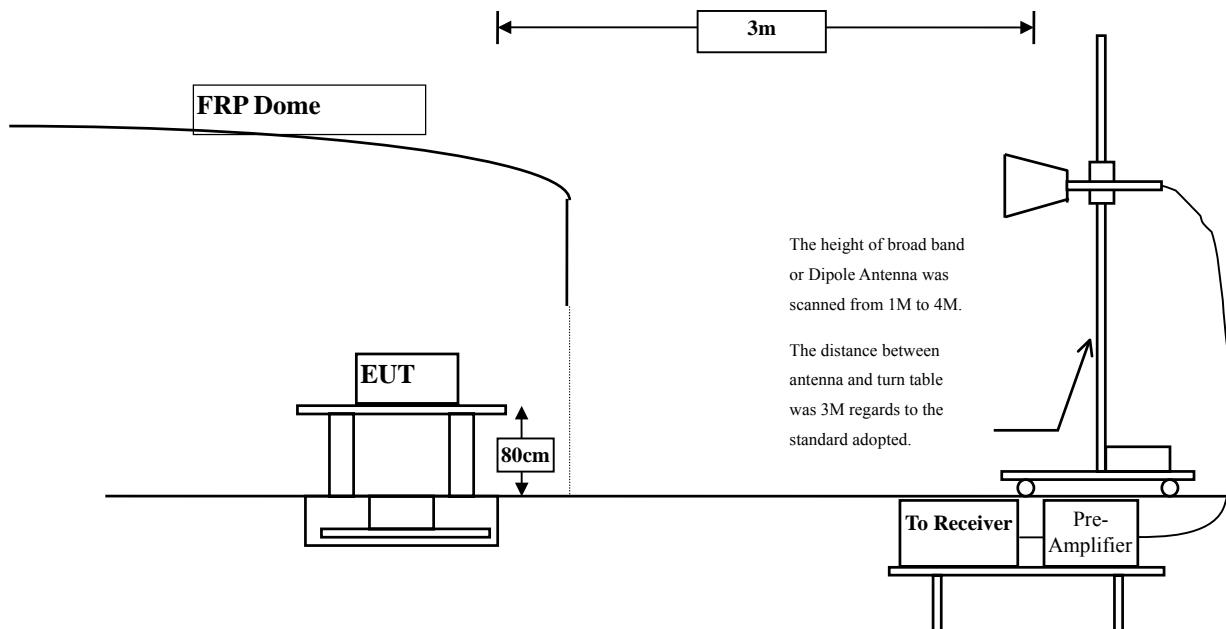
2. The test instruments marked with “X” are used to measure the final test results.

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.

| FCC Part 15 Subpart C Paragraph 15.209(a) Limits | | |
|---|----------|-----------|
| 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 measurement frequency range from 30MHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : WHDI Rx board
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5745 MHz)

| Frequency MHz | Correct Factor | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|--------------------------|-------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11490.000 | 17.106 | 35.550 | 52.657 | -21.343 | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11490.000 | 18.034 | 36.370 | 54.405 | -19.595 | 74.000 |
| Average Detector: | | | | | |
| 11490.000 | 18.034 | 24.110 | 42.145 | -11.855 | 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 : WHDI Rx board
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5785 MHz)

| Frequency MHz | Correct Factor | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|------------------|-------------------|--------------------------|--------------------------------|--------------|-----------------|
|------------------|-------------------|--------------------------|--------------------------------|--------------|-----------------|

Horizontal

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11570.000 | 16.809 | 35.370 | 52.179 | -21.821 | 74.000 |
|-----------|--------|--------|--------|---------|--------|

Average Detector:

--

Vertical

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11570.000 | 17.698 | 36.100 | 53.798 | -20.202 | 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 : WHDI Rx board
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5825 MHz)

| Frequency MHz | Correct Factor | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|------------------|-------------------|--------------------------|--------------------------------|--------------|-----------------|
|------------------|-------------------|--------------------------|--------------------------------|--------------|-----------------|

Horizontal

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11650.000 | 16.158 | 34.080 | 50.238 | -23.762 | 74.000 |
|-----------|--------|--------|--------|---------|--------|

Average Detector:

--

Vertical

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11650.000 | 17.274 | 34.370 | 51.645 | -22.355 | 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 : WHDI Rx board
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW (5755MHz)

| Frequency MHz | Correct Factor | Reading Level dB | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|------------------|-------------------|------------------------|--------------------------------|--------------|-----------------|
|------------------|-------------------|------------------------|--------------------------------|--------------|-----------------|

Horizontal

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11510.000 | 17.124 | 35.450 | 52.574 | -21.426 | 74.000 |
|-----------|--------|--------|--------|---------|--------|

Average Detector:

--

Vertical

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11510.000 | 18.081 | 36.640 | 54.721 | -19.279 | 74.000 |
|-----------|--------|--------|--------|---------|--------|

Average Detector:

| | | | | | |
|-----------|--------|--------|--------|--------|--------|
| 11510.000 | 18.081 | 26.520 | 44.601 | -9.399 | 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 : WHDI Rx board
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW (5795 MHz)

| Frequency MHz | Correct Factor | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|------------------|-------------------|--------------------------|--------------------------------|--------------|-----------------|
|------------------|-------------------|--------------------------|--------------------------------|--------------|-----------------|

Horizontal

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11590.000 | 16.701 | 34.790 | 51.490 | -22.510 | 74.000 |
|-----------|--------|--------|--------|---------|--------|

Average Detector:

--

Vertical

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11590.000 | 17.567 | 36.110 | 53.676 | -20.324 | 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 : WHDI Rx board
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5785MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|-------------------|----------------|---------------|-------------------|---------|--------|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| 148.340 | -7.806 | 33.108 | 25.302 | -18.198 | 43.500 |
| 295.780 | -4.747 | 39.251 | 34.504 | -11.496 | 46.000 |
| 445.160 | -0.432 | 38.472 | 38.040 | -7.960 | 46.000 |
| 594.540 | 3.555 | 33.855 | 37.410 | -8.590 | 46.000 |
| 743.920 | 3.898 | 33.641 | 37.539 | -8.461 | 46.000 |
| 891.360 | 6.265 | 35.126 | 41.391 | -4.609 | 46.000 |
| Vertical | | | | | |
| 148.340 | -5.406 | 33.108 | 27.702 | -15.798 | 43.500 |
| 295.780 | -4.687 | 31.651 | 26.964 | -19.036 | 46.000 |
| 445.160 | -6.402 | 37.272 | 30.870 | -15.130 | 46.000 |
| 594.540 | 0.175 | 37.255 | 37.430 | -8.570 | 46.000 |
| 743.920 | 0.718 | 33.041 | 33.759 | -12.241 | 46.000 |
| 891.360 | 0.905 | 39.026 | 39.931 | -6.069 | 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.

Product : WHDI Rx board
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW (5755MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|-------------------|----------------|---------------|-------------------|---------|--------|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| 148.340 | -7.806 | 34.108 | 26.302 | -17.198 | 43.500 |
| 295.780 | -4.747 | 36.251 | 31.504 | -14.496 | 46.000 |
| 445.160 | -0.432 | 37.872 | 37.440 | -8.560 | 46.000 |
| 594.540 | 3.555 | 36.255 | 39.810 | -6.190 | 46.000 |
| 743.920 | 3.898 | 33.741 | 37.639 | -8.361 | 46.000 |
| 891.360 | 6.265 | 34.726 | 40.991 | -5.009 | 46.000 |
| Vertical | | | | | |
| 148.340 | -5.406 | 34.108 | 28.702 | -14.798 | 43.500 |
| 295.780 | -4.687 | 34.751 | 30.064 | -15.936 | 46.000 |
| 445.160 | -6.402 | 44.572 | 38.170 | -7.830 | 46.000 |
| 594.540 | 0.175 | 37.955 | 38.130 | -7.870 | 46.000 |
| 743.920 | 0.718 | 34.341 | 35.059 | -10.941 | 46.000 |
| 891.360 | 0.905 | 39.126 | 40.031 | -5.969 | 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

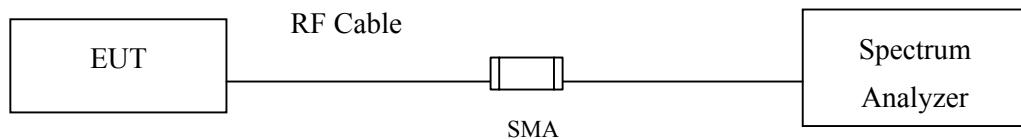
5.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| X | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2011 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2011 |
| | 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

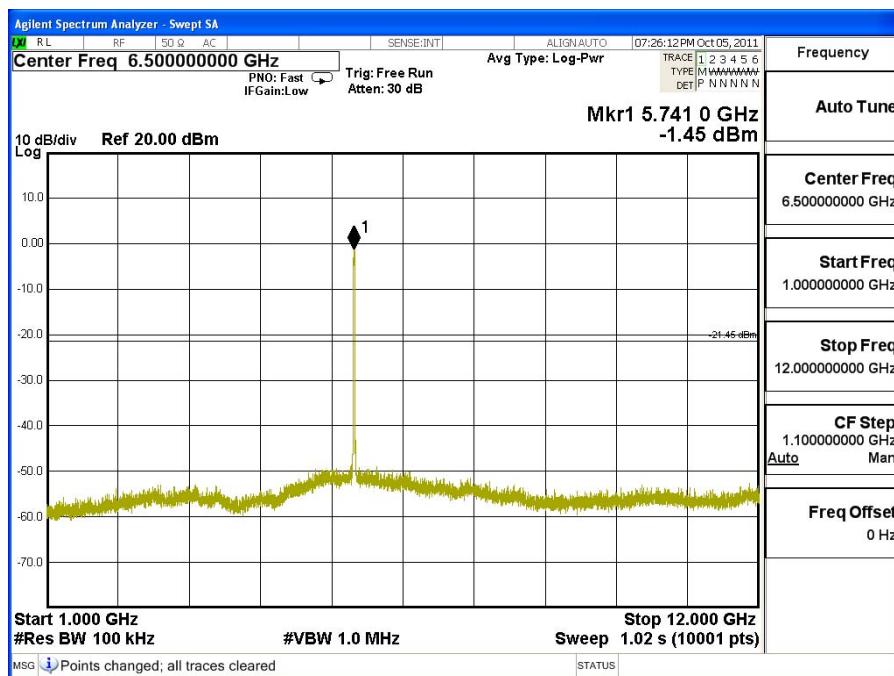
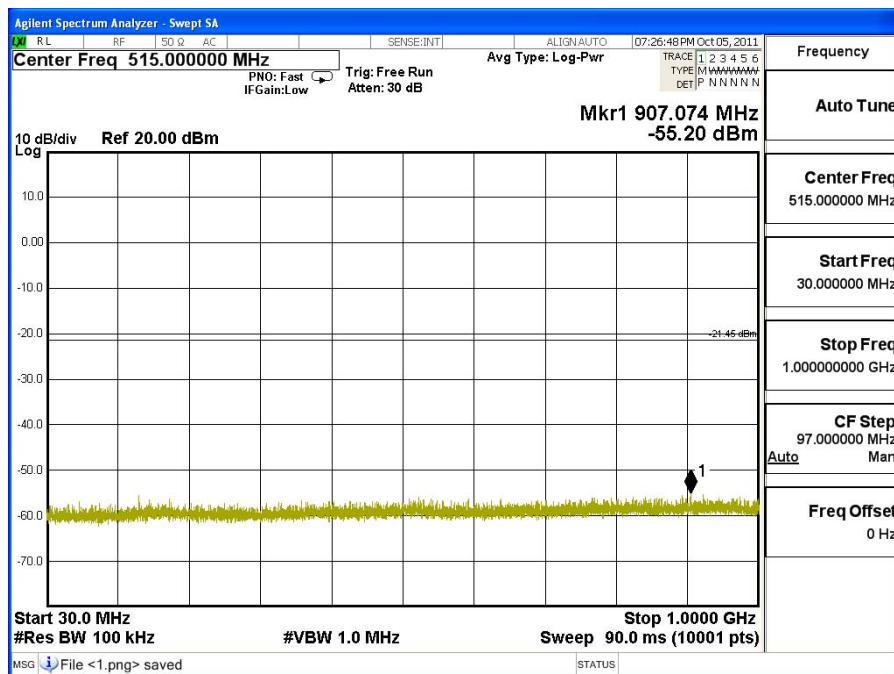
The measurement uncertainty

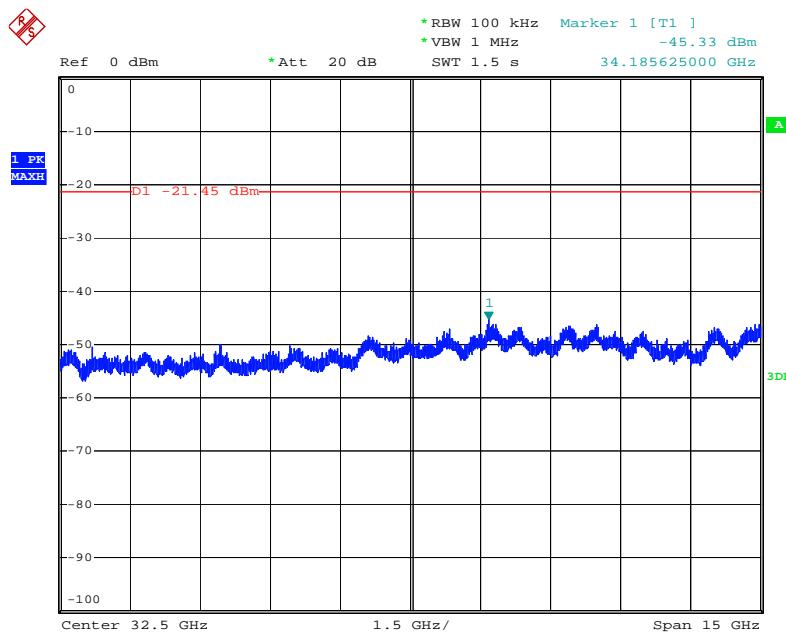
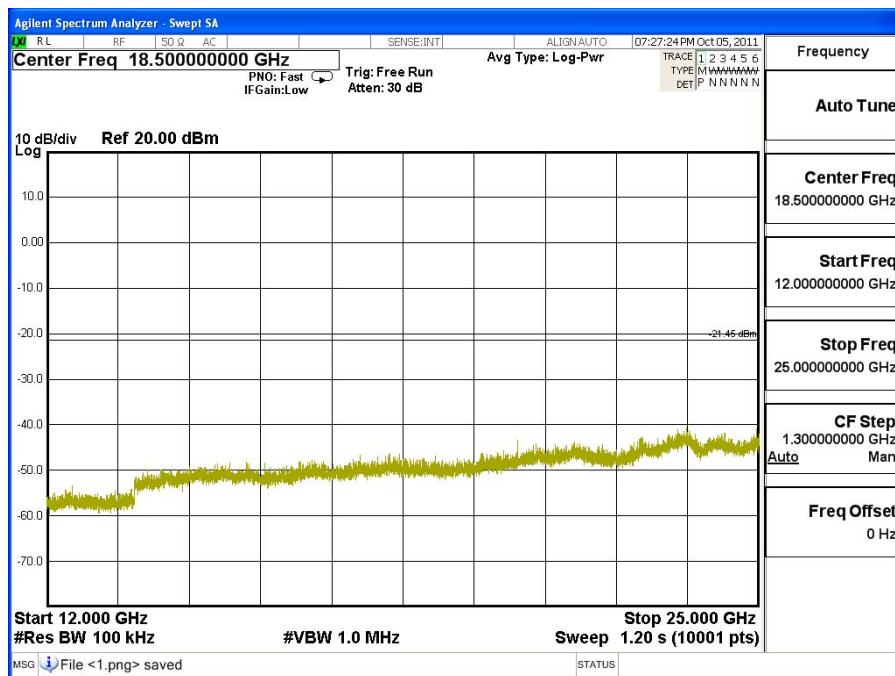
Conducted is defined as $\pm 1.27\text{dB}$

5.6. Test Result of RF antenna conducted test

Product : WHDI Rx board
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW

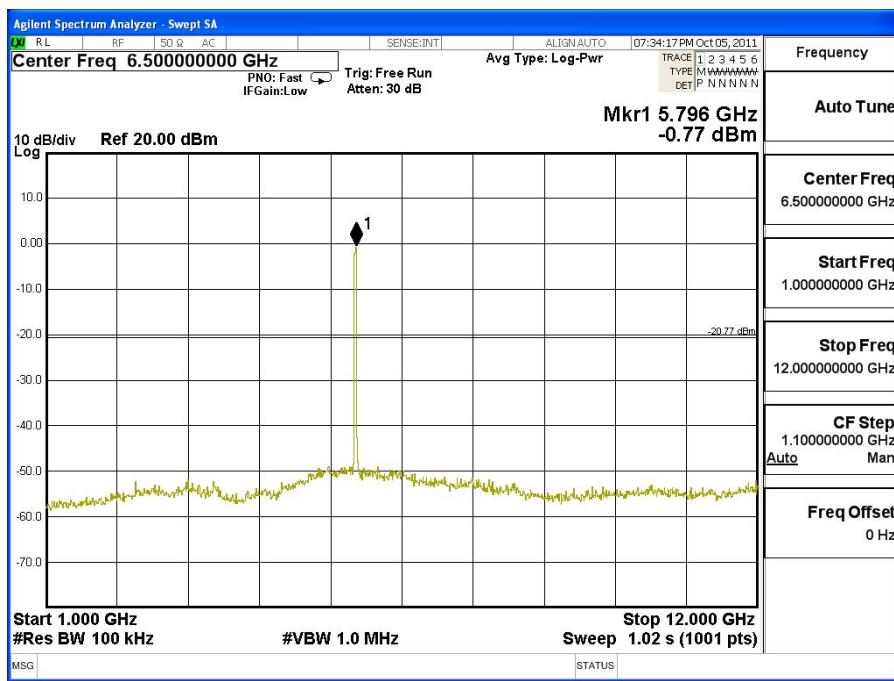
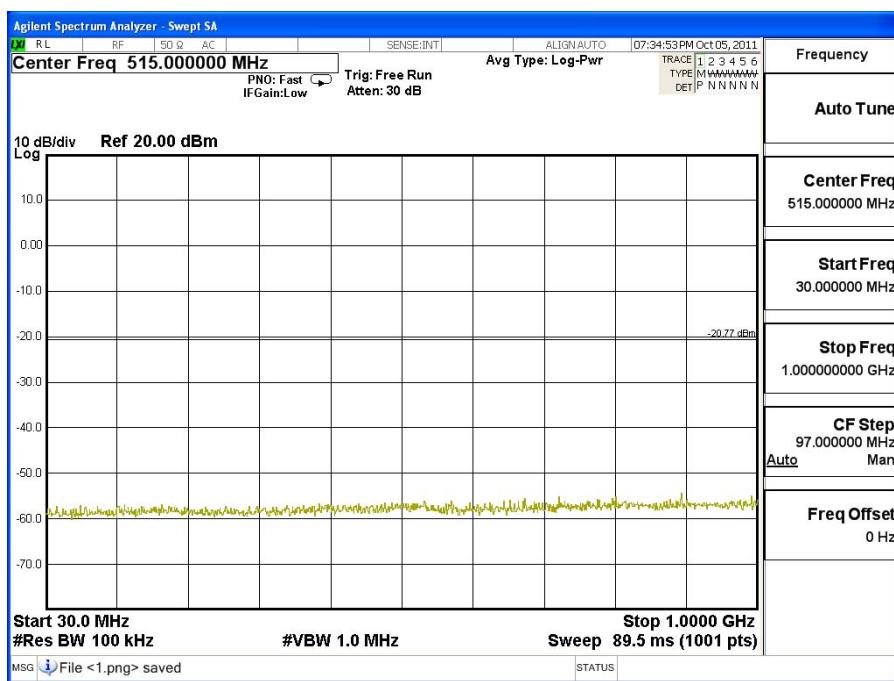
Channel 149 (5745MHz) 30MHz -40GHz

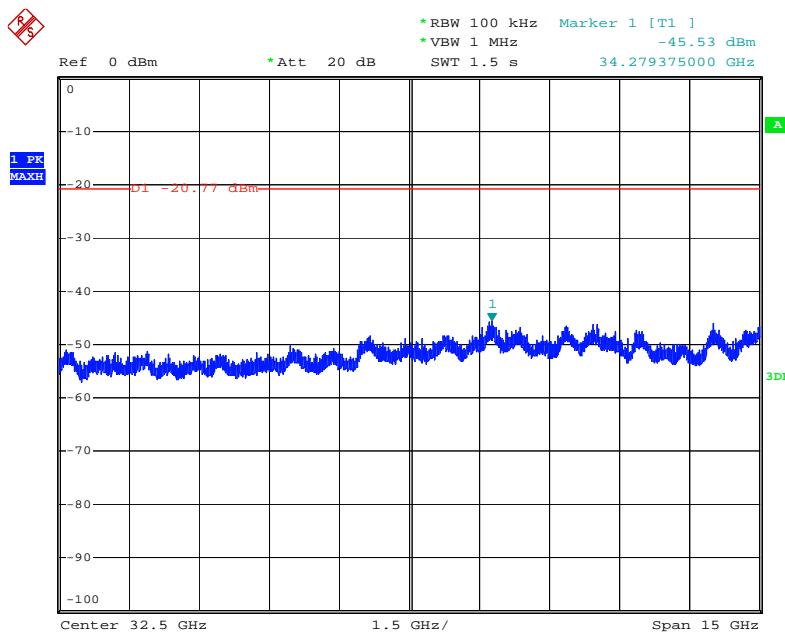




Date: 7.OCT.2011 16:28:24

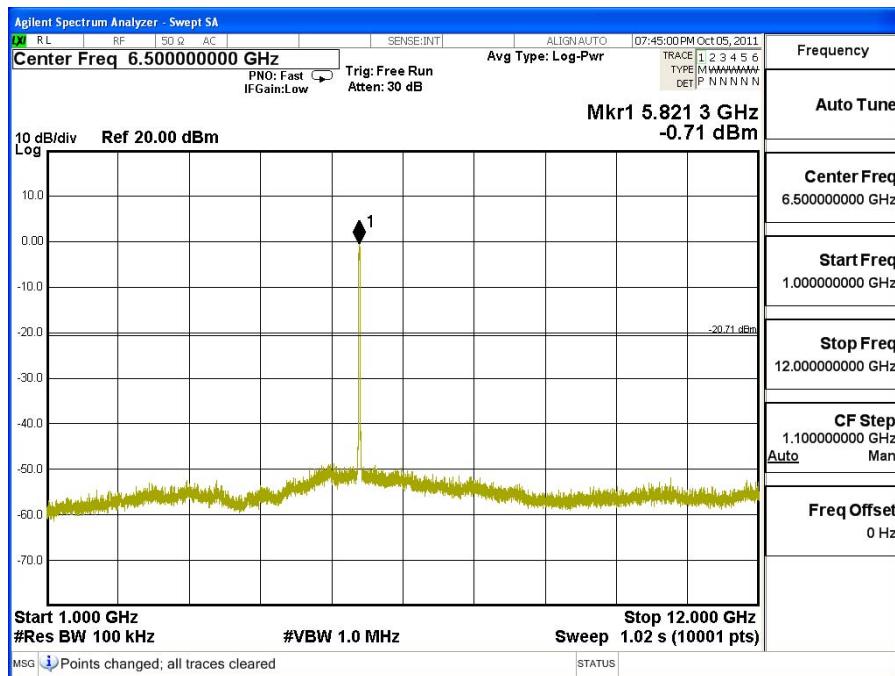
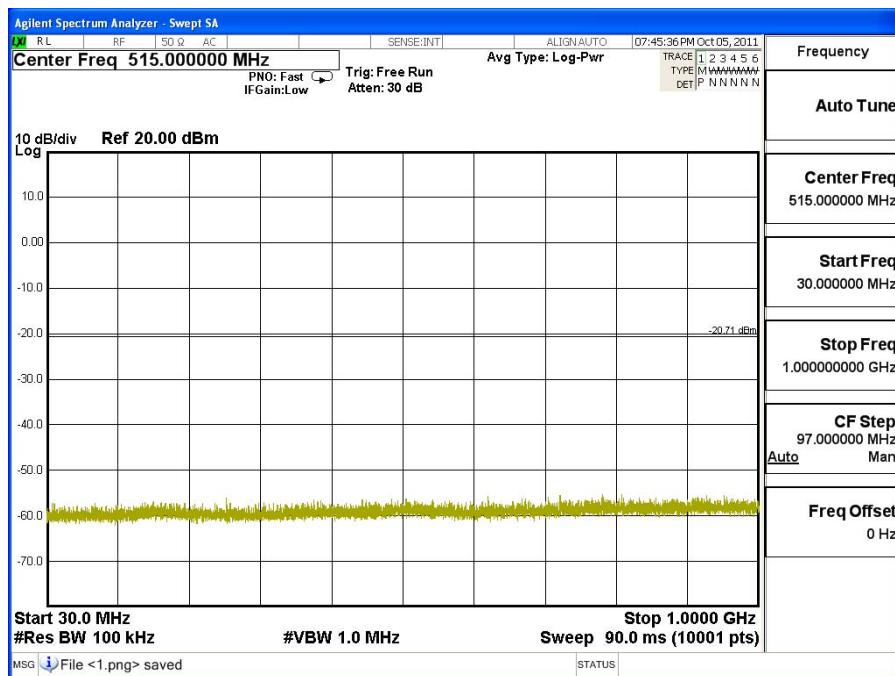
Channel 157 (5785MHz) 30MHz -40GHz

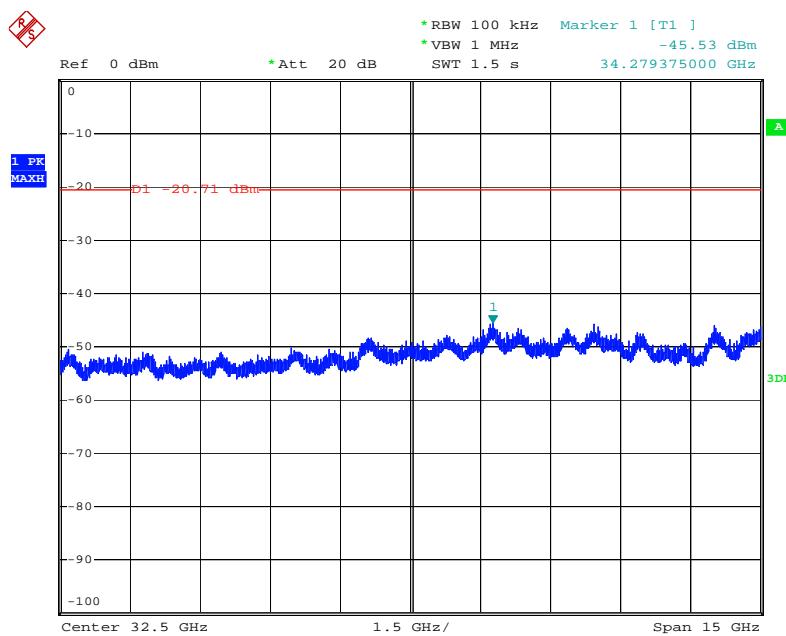
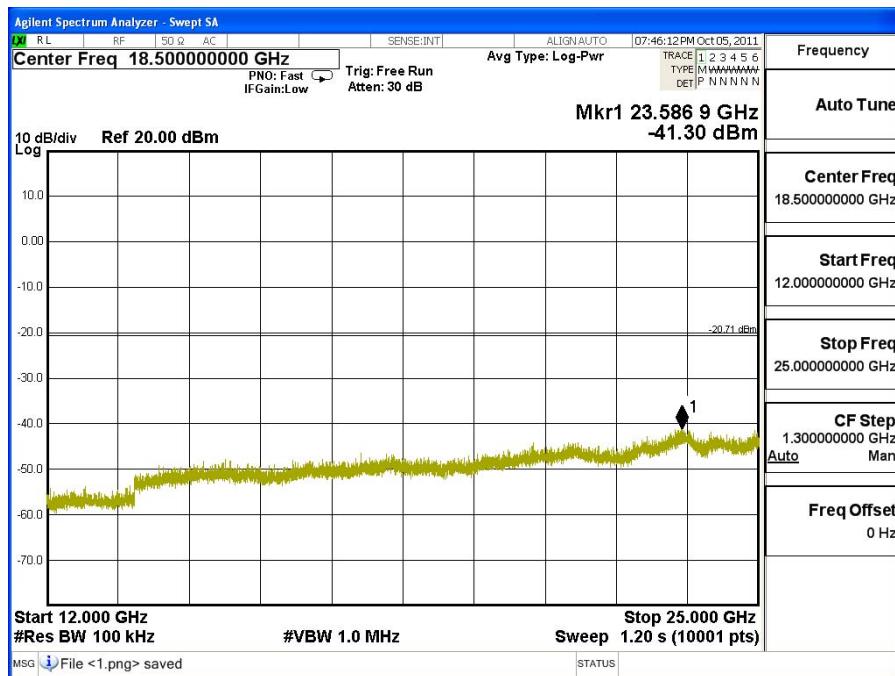




Date: 7.OCT.2011 16:31:10

Channel 165 (5825MHz) 30MHz -40GHz

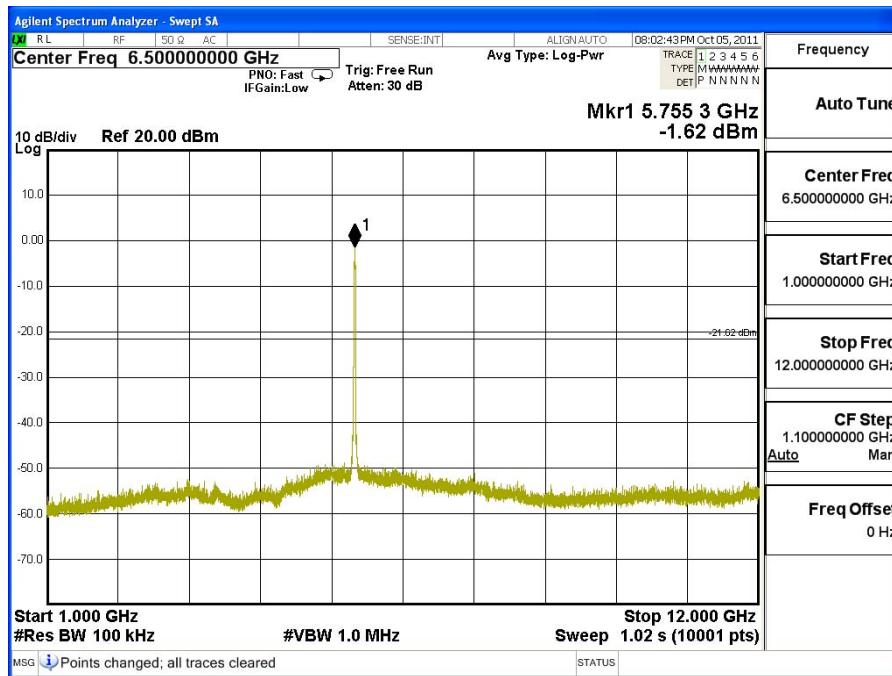
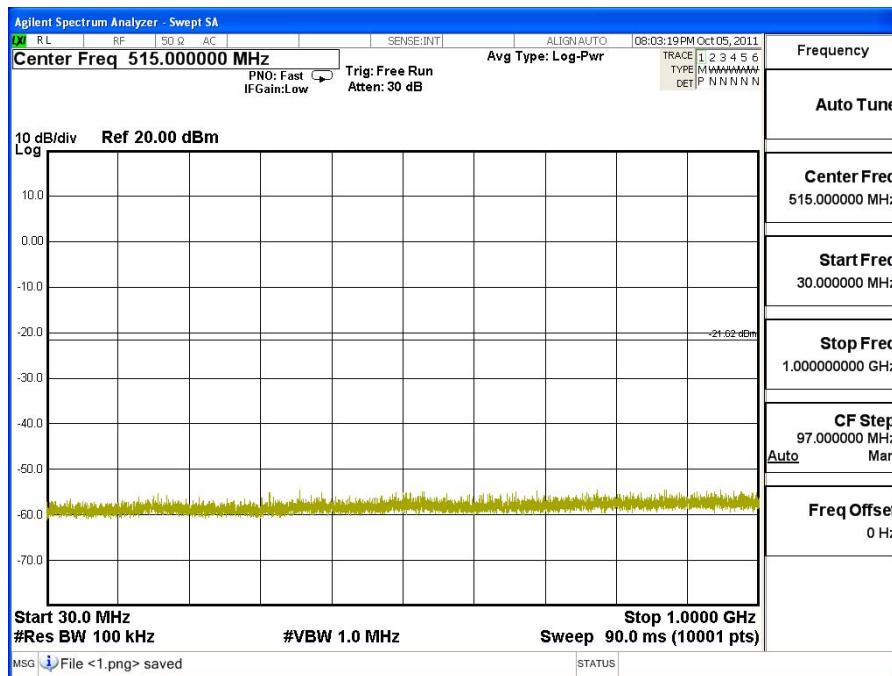


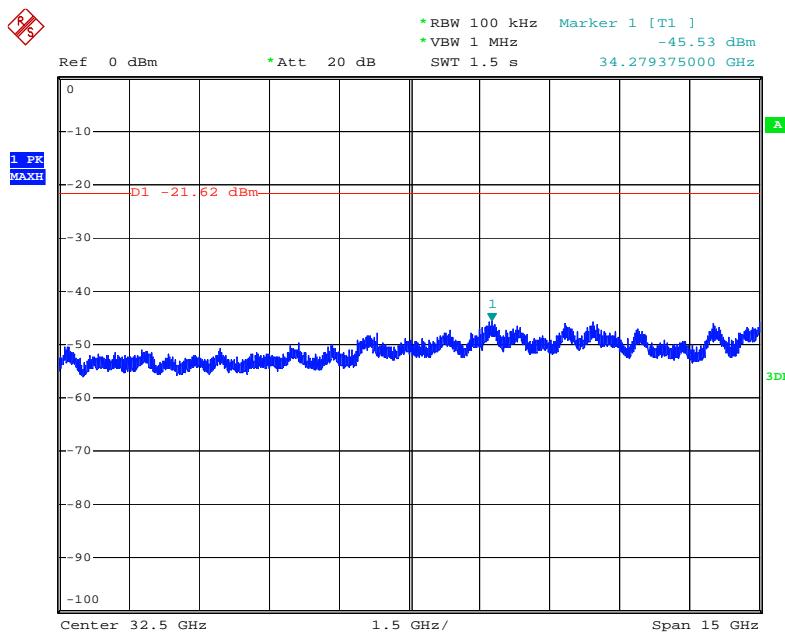
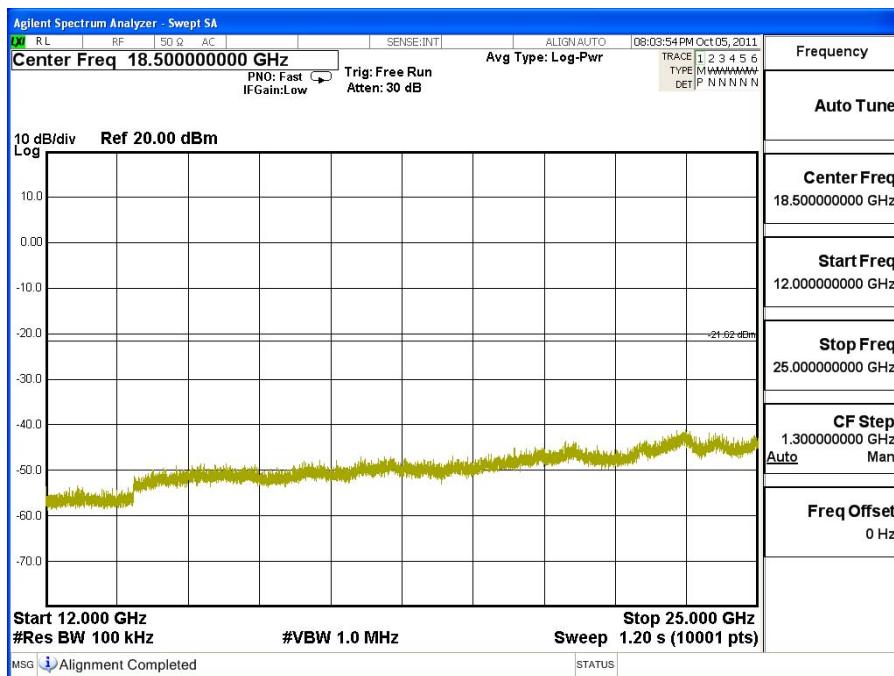


Date: 7.OCT.2011 16:32:04

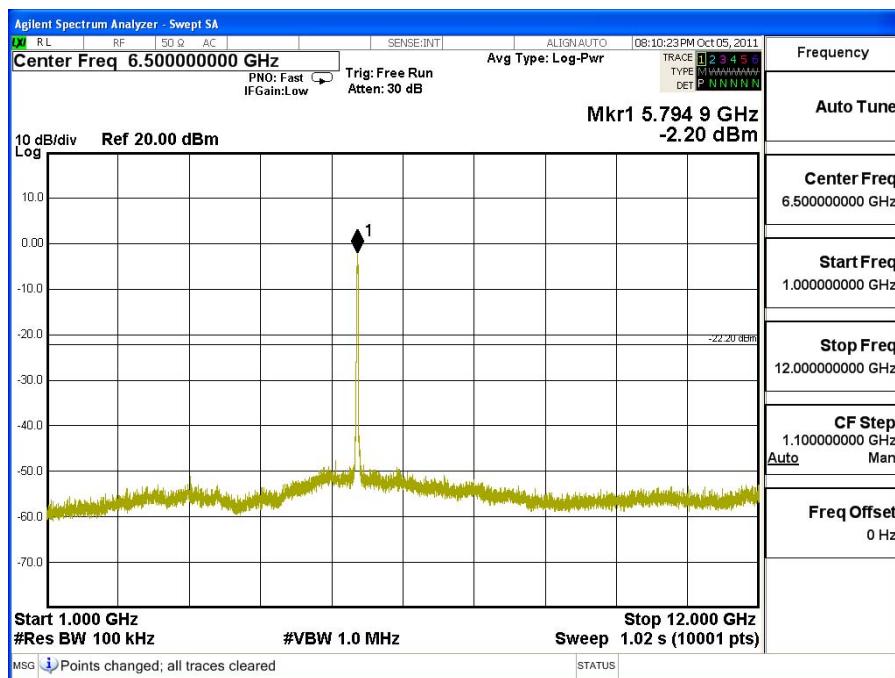
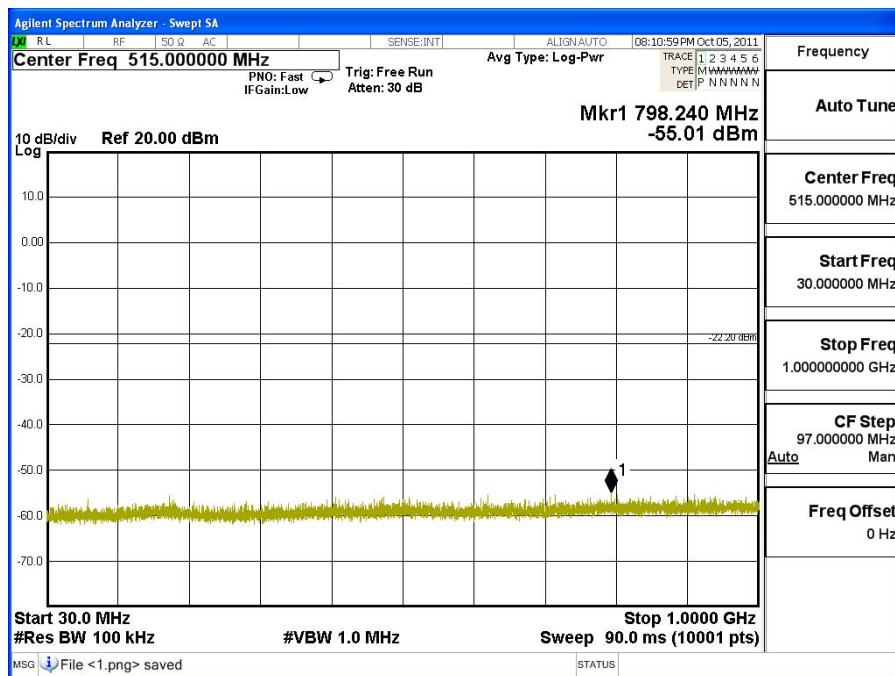
Product : WHDI Rx board
 Test Item : RF Antenna Conducted Spurious
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW

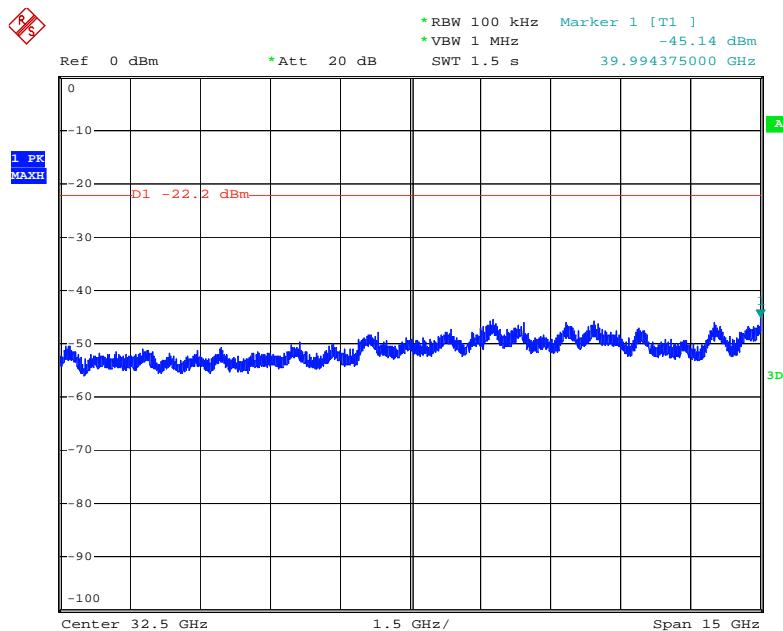
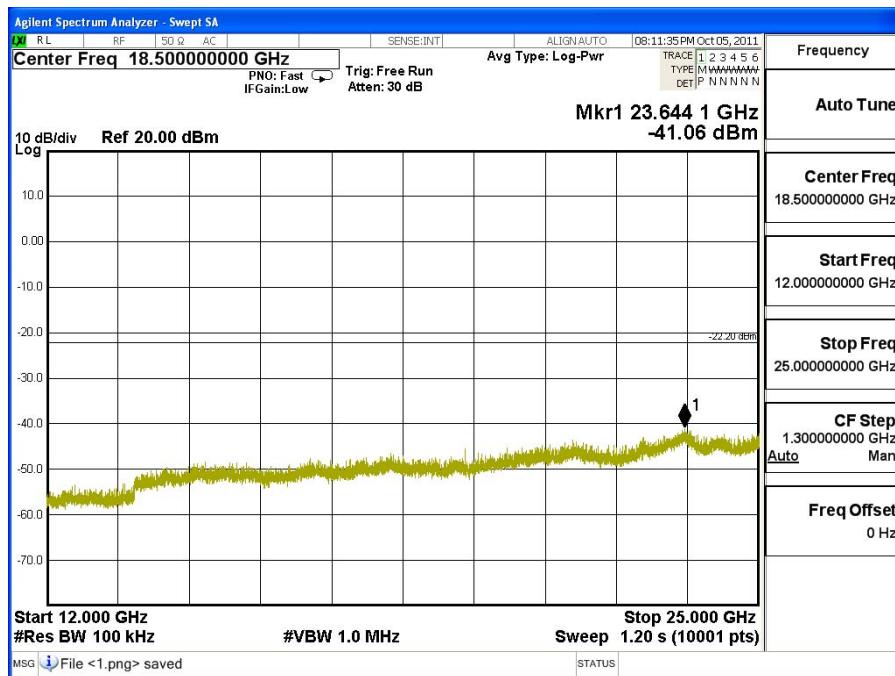
Channel 151 (5755MHz) 30MHz -40GHz





Date: 7.OCT.2011 16:33:52

Channel 159 (5795MHz) 30MHz -40GHz




Date: 7.OCT.2011 16:34:39

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., 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.

RF Radiated Measurement:

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

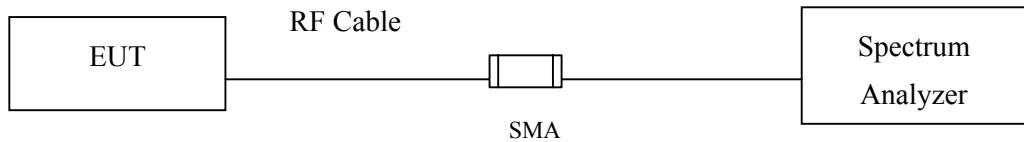
| Test Site | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|------------|---------------------|-----------------|-----------------------------|------------|
| X Site # 3 | Bilog Antenna | Schaffner Chase | CBL6112B/2673 | Sep., 2011 |
| | X Horn Antenna | Schwarzbeck | BBHA9120D/D305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

Note:

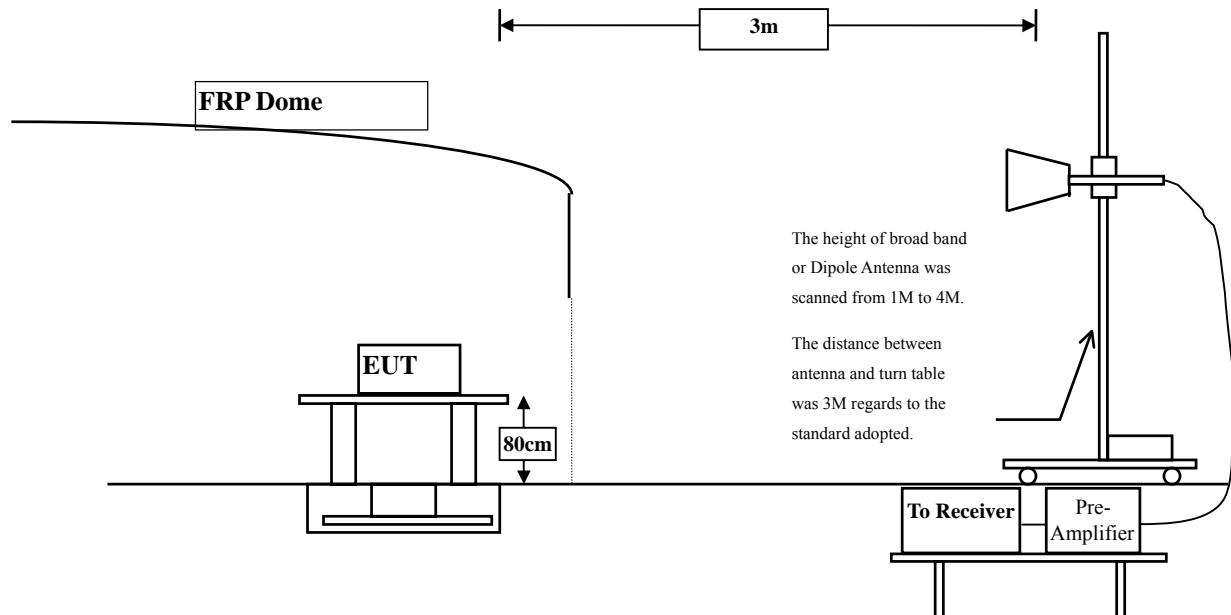
1. All instruments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

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, 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 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 C63.4:2009 on radiated measurement.

6.5. Uncertainty

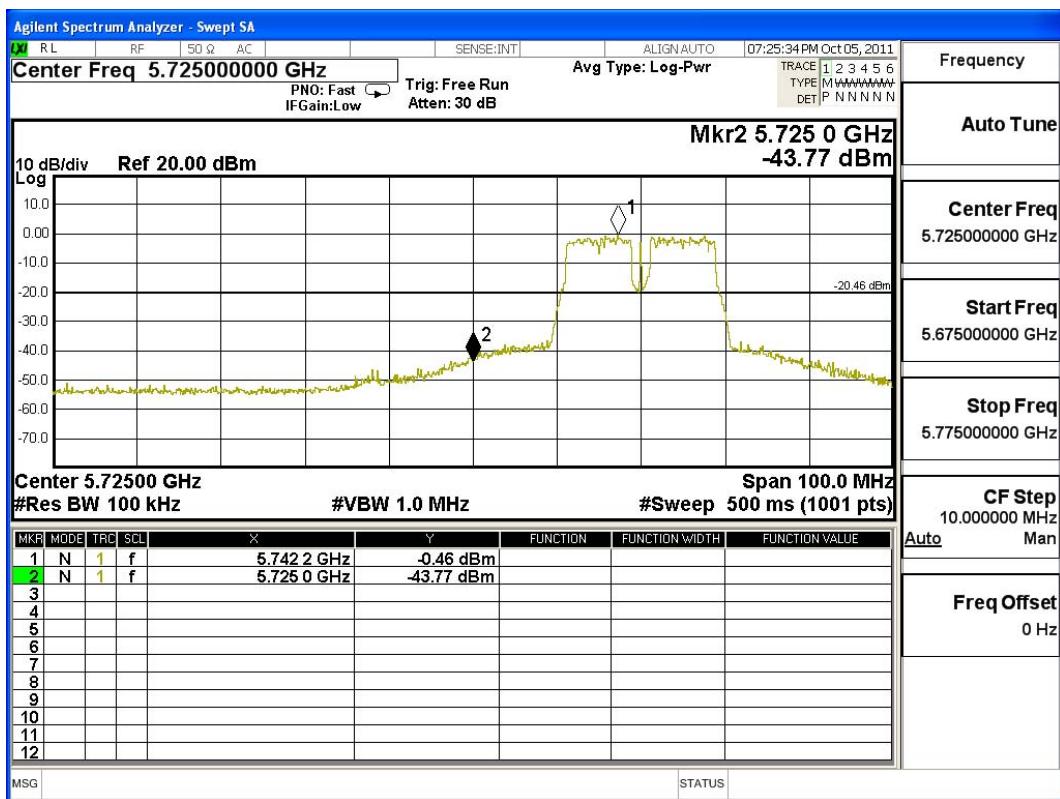
± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

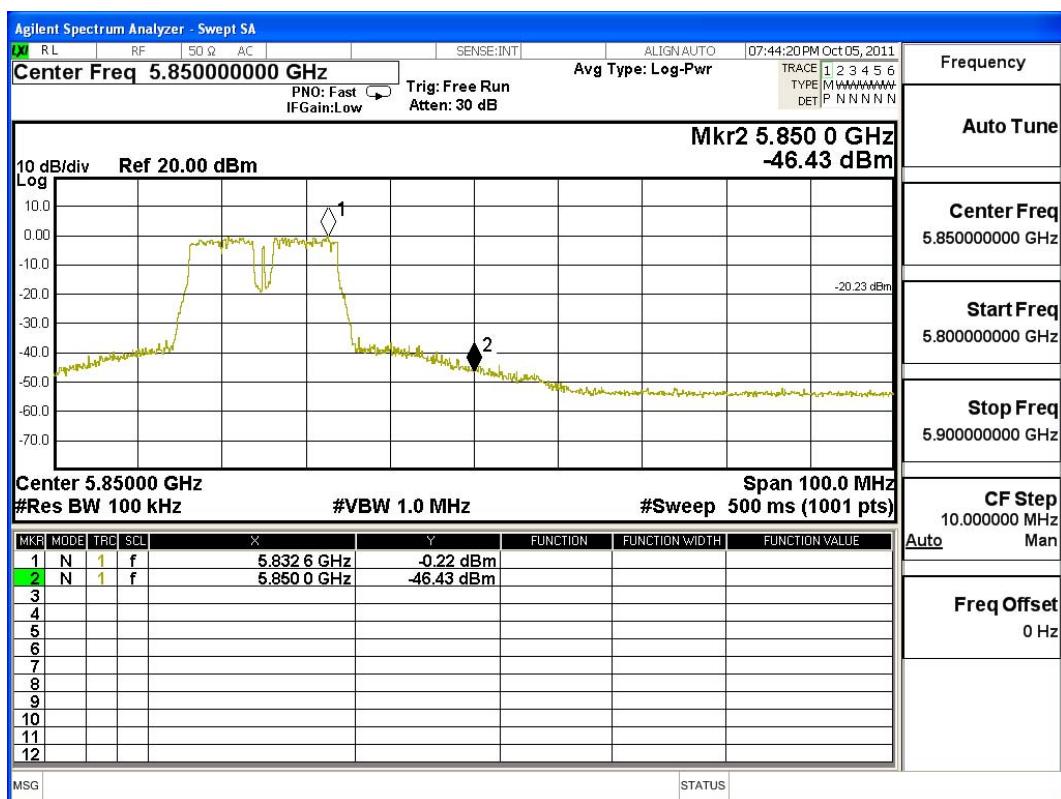
Product : WHDI Rx board
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW

| Test Frequency (MHz) | Measurement Level Δ (dB) | Limit Δ (dB) | Result |
|-------------------------|------------------------------------|------------------------|--------|
| 5745 | 43.310 | >20 | PASS |



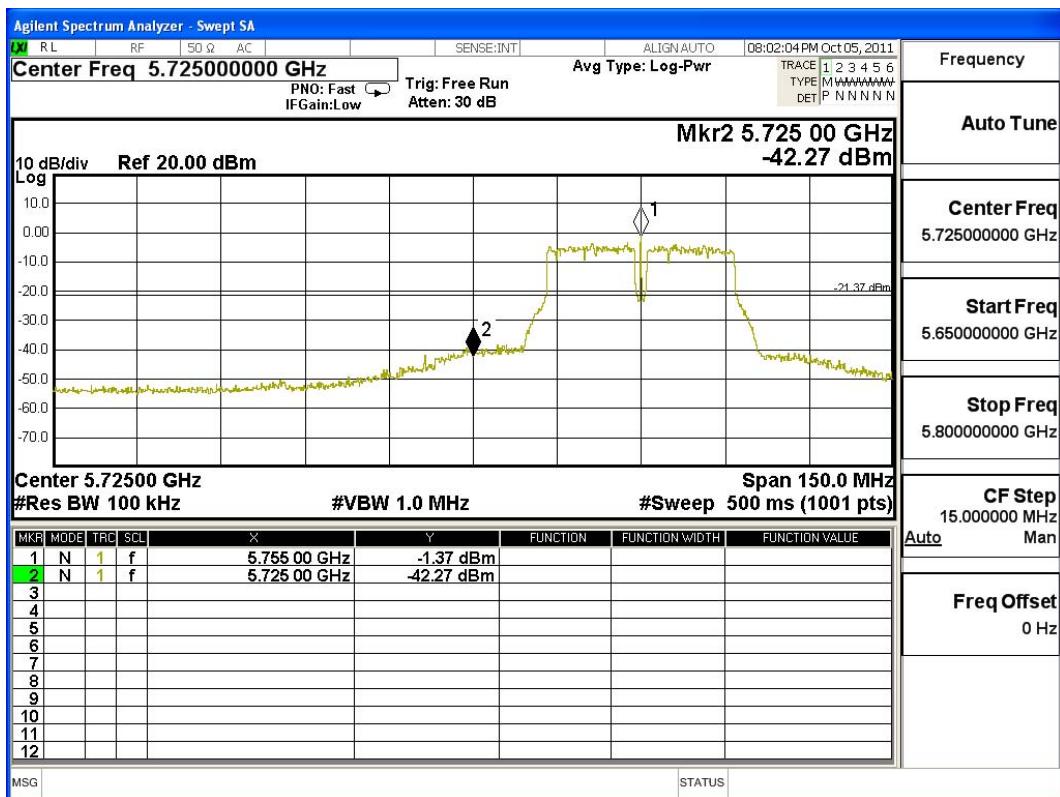
Product : WHDI Rx board
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW

| Test Frequency (MHz) | Measurement Level Δ (dB) | Limit Δ (dB) | Result |
|----------------------|---------------------------------|---------------------|--------|
| 5825 | 46.210 | >20 | PASS |



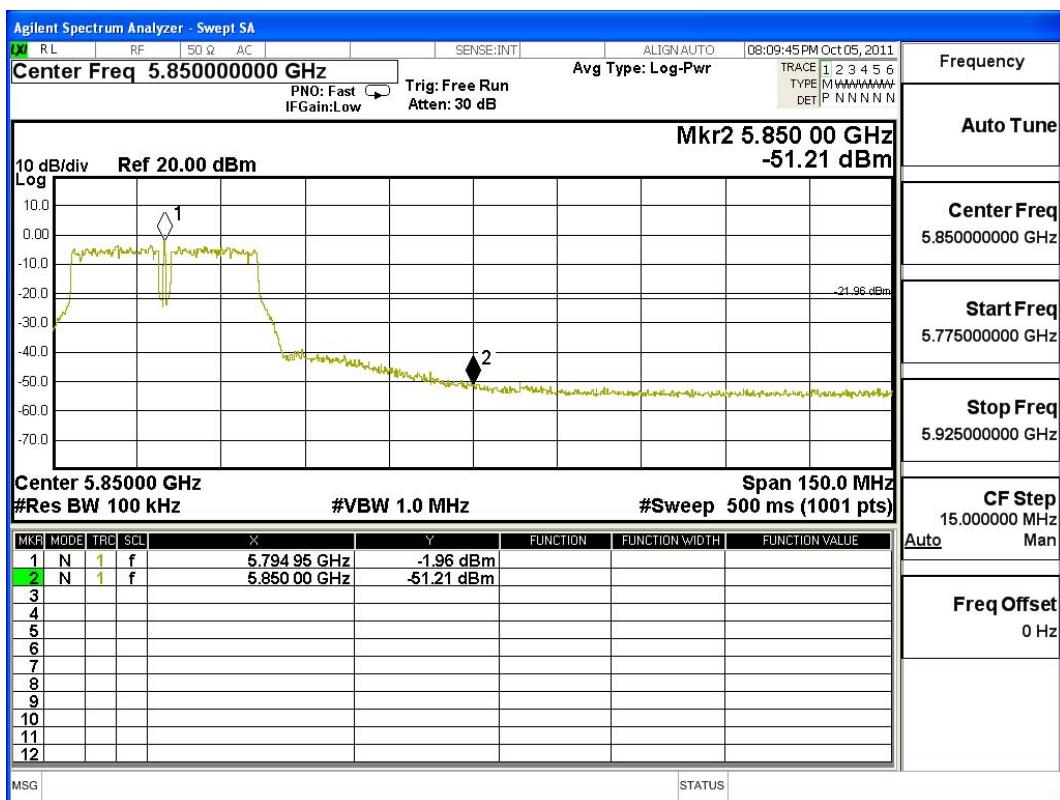
Product : WHDI Rx board
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW

| Test Frequency (MHz) | Measurement Level Δ (dB) | Limit Δ (dB) | Result |
|-------------------------|------------------------------------|------------------------|--------|
| 5755 | 40.90 | >20 | PASS |



Product : WHDI Rx board
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW

| Test Frequency (MHz) | Measurement Level Δ (dB) | Limit Δ (dB) | Result |
|-------------------------|------------------------------------|------------------------|--------|
| 5795 | 49.250 | >20 | PASS |



7. Occupied Bandwidth

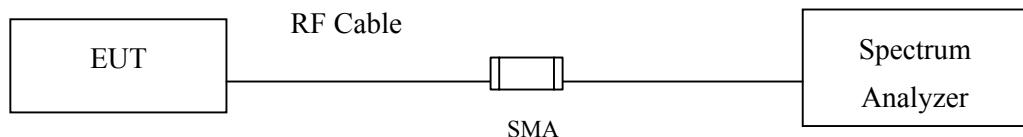
7.1. Test Equipment

| 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., 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.

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, 2009; tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

7.5. Uncertainty

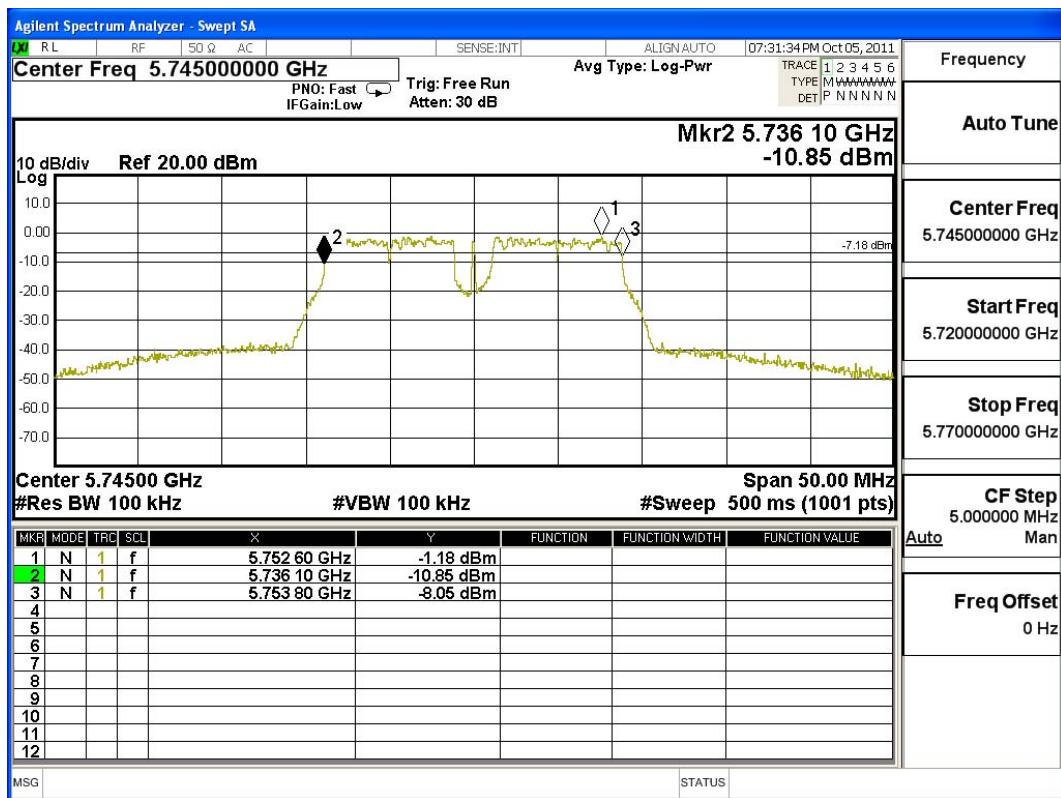
± 150Hz

7.6. Test Result of Occupied Bandwidth

Product : WHDI Rx board
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5745MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 149 | 5745.00 | 17700 | >500 | Pass |

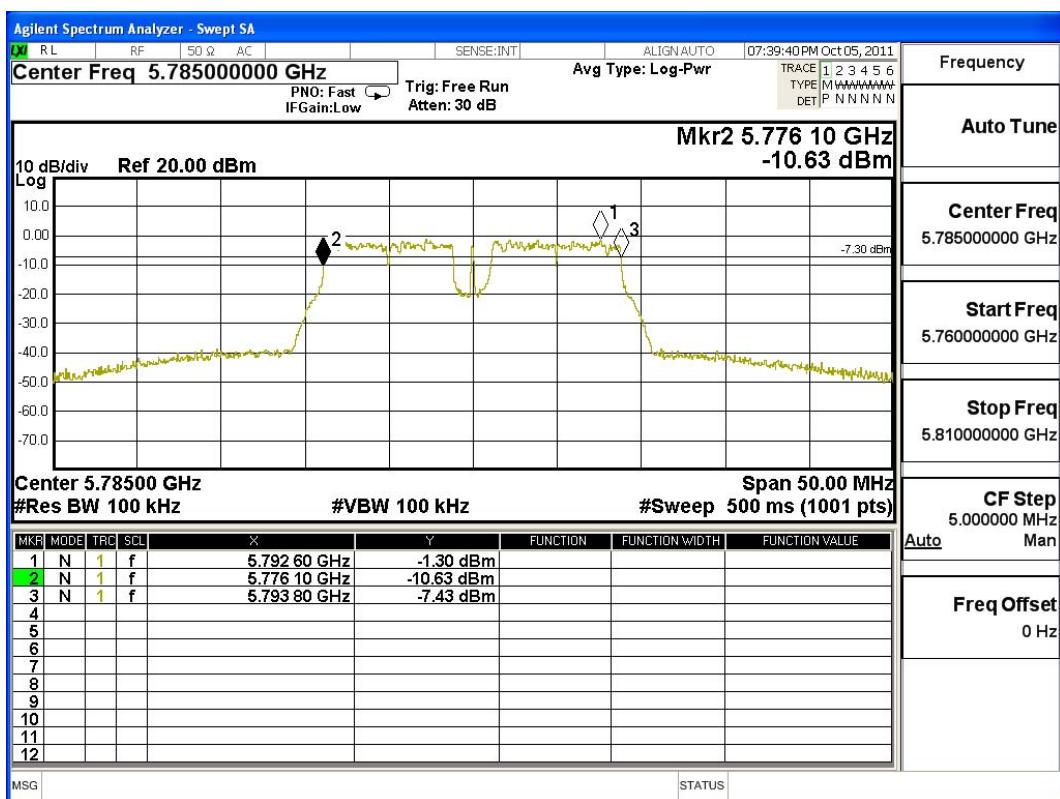
Figure Channel 149:



Product : WHDI Rx board
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5785MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 157 | 5785.00 | 17700 | >500 | Pass |

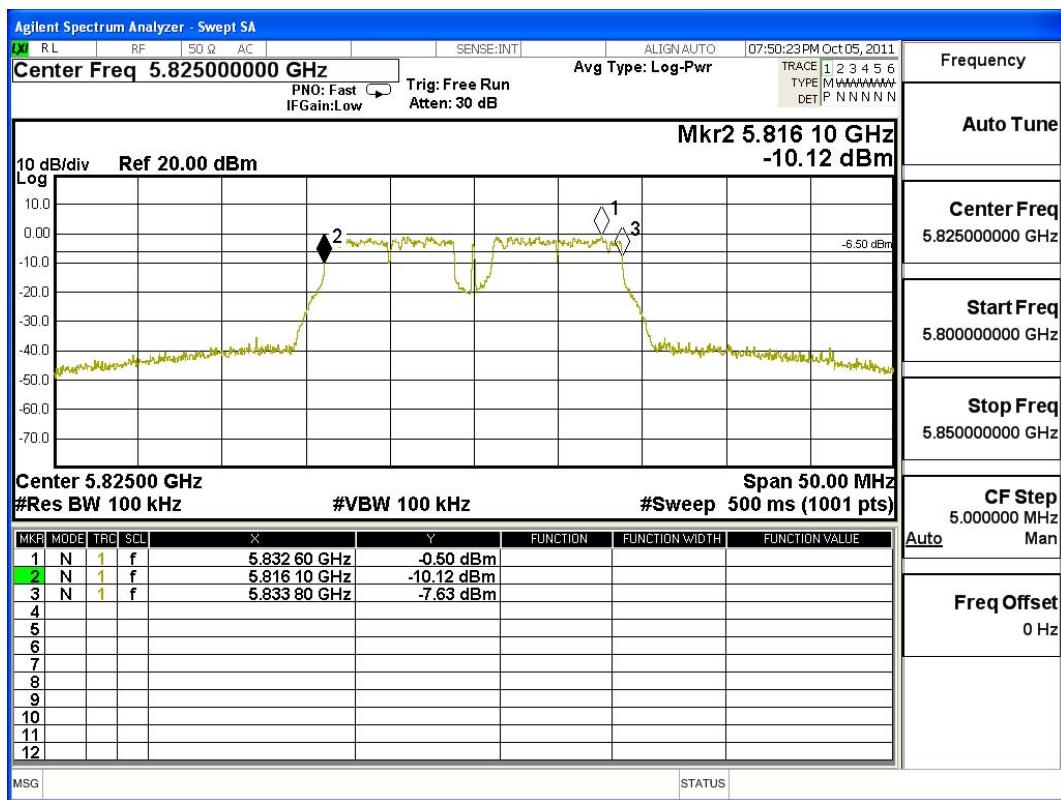
Figure Channel 157:



Product : WHDI Rx board
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit - 20BW (5825MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 165 | 5825.00 | 17700 | >500 | Pass |

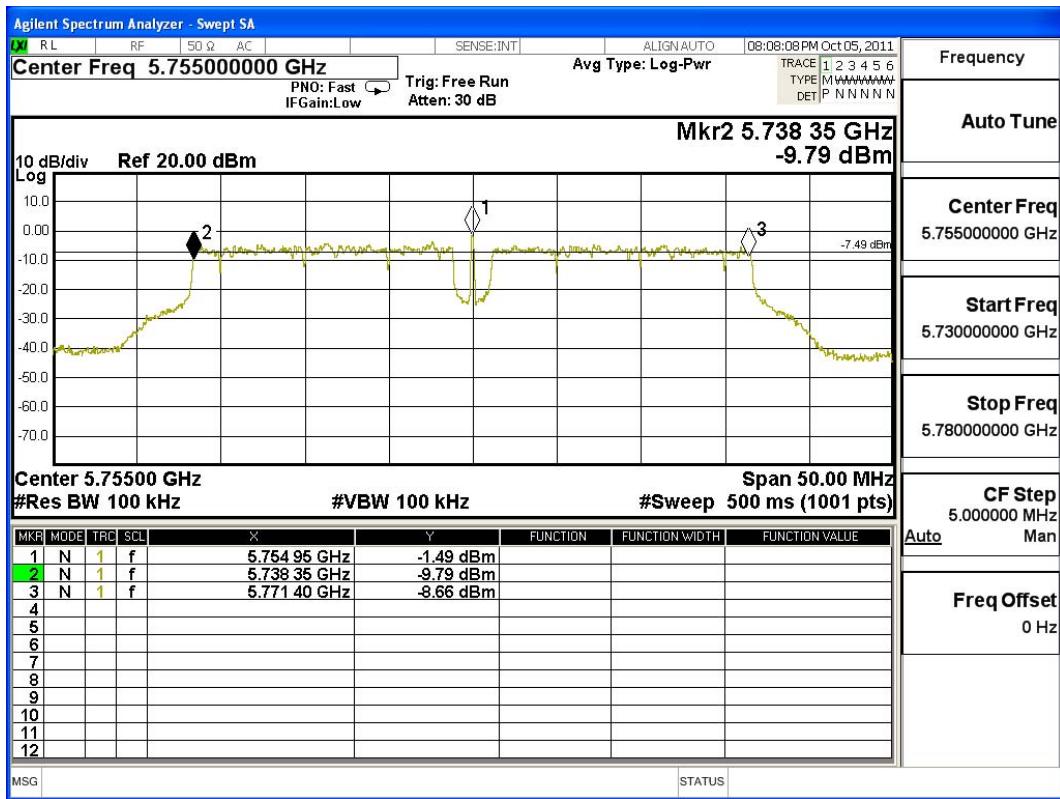
Figure Channel 165:



Product : WHDI Rx board
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW (5755MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 151 | 5755.00 | 33050 | >500 | Pass |

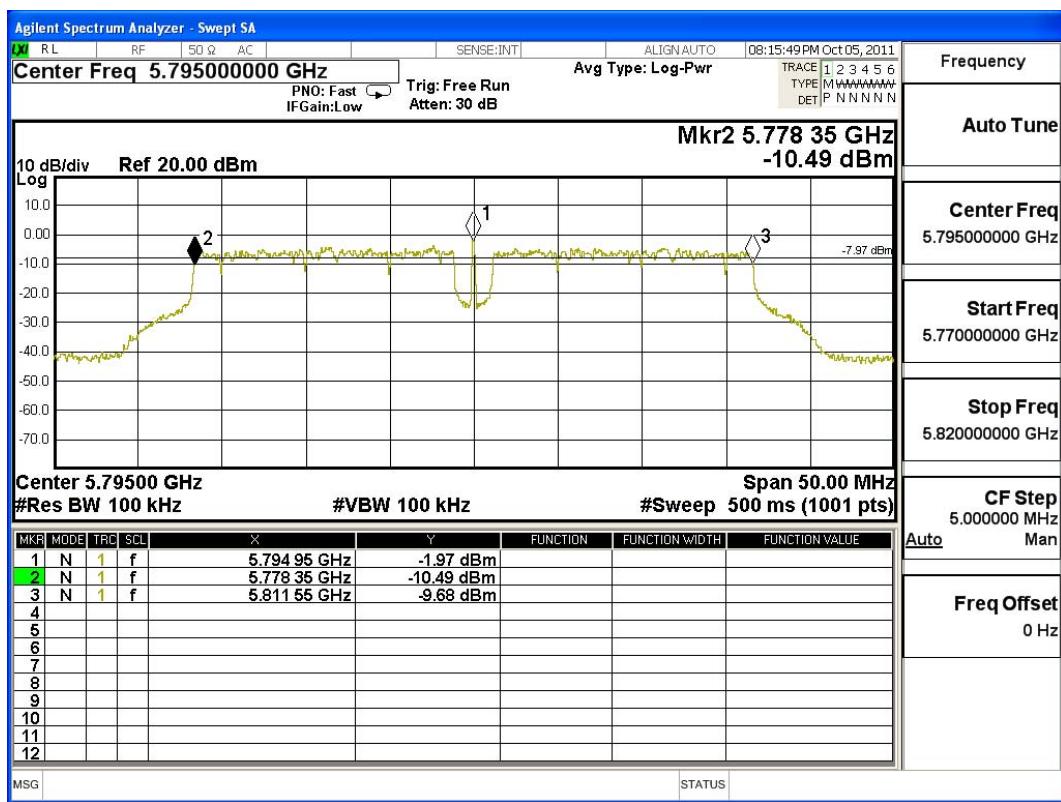
Figure Channel 151:



Product : WHDI Rx board
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW (5795MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 159 | 5795.00 | 33200 | >500 | Pass |

Figure Channel 159:



8. Power Density

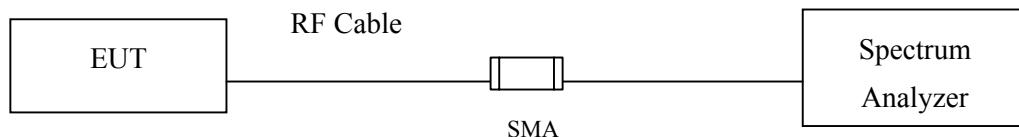
8.1. Test Equipment

| 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.

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, 2009; tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, VBW=10KHz, Sweep time=(SPAN/3KHz), detector=Peak detector

8.5. Uncertainty

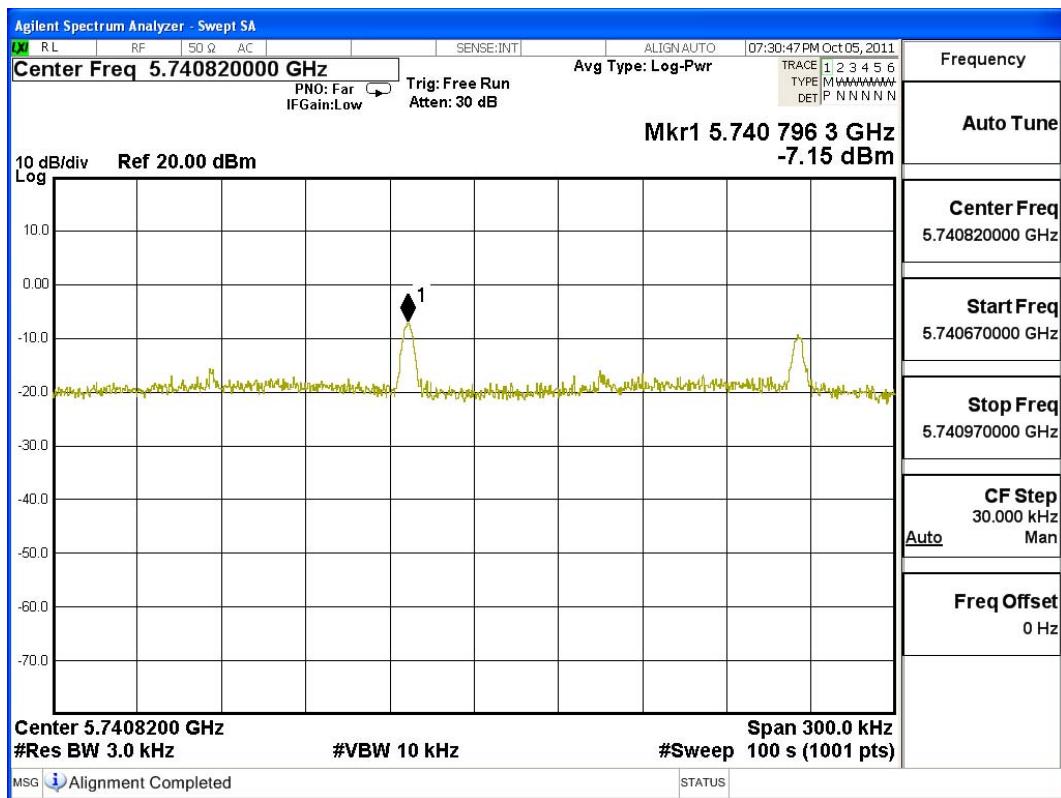
± 1.27 dB

8.6. Test Result of Power Density

Product : WHDI Rx board
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5745MHz)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 149 | 5745.00 | -7.15 | < 8dBm | Pass |

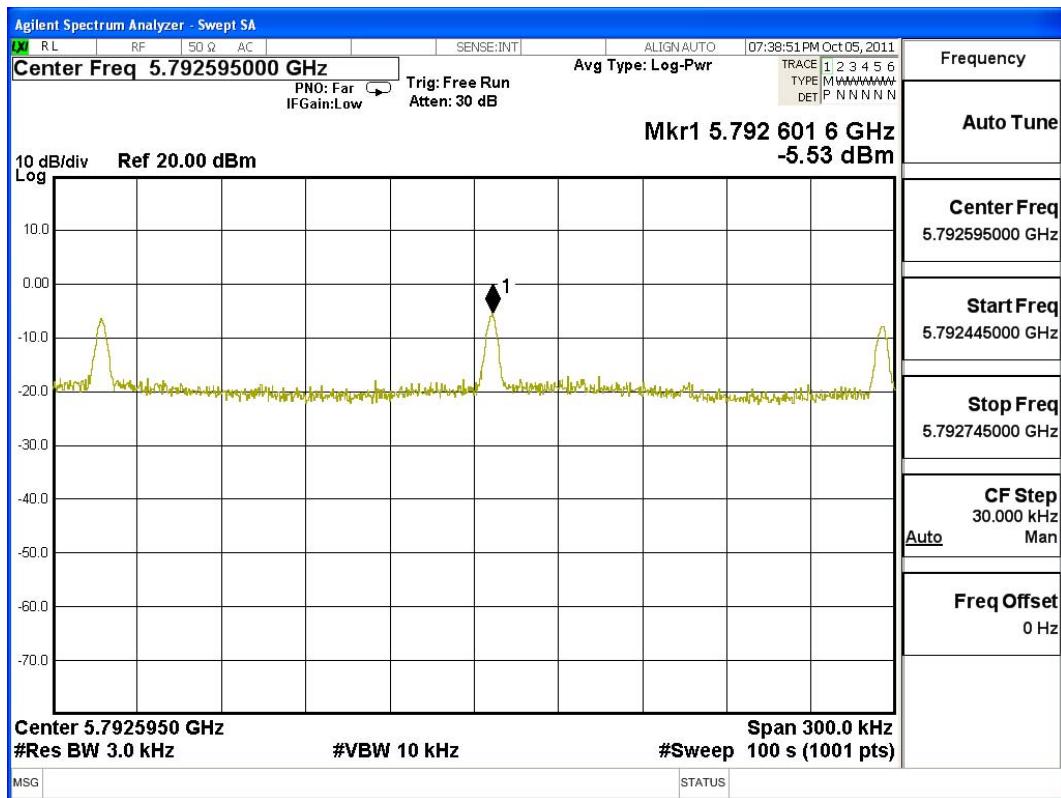
Figure Channel 149:



Product : WHDI Rx board
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmit - 20BW (5785MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 157 | 5785.000 | -5.53 | < 8dBm | Pass |

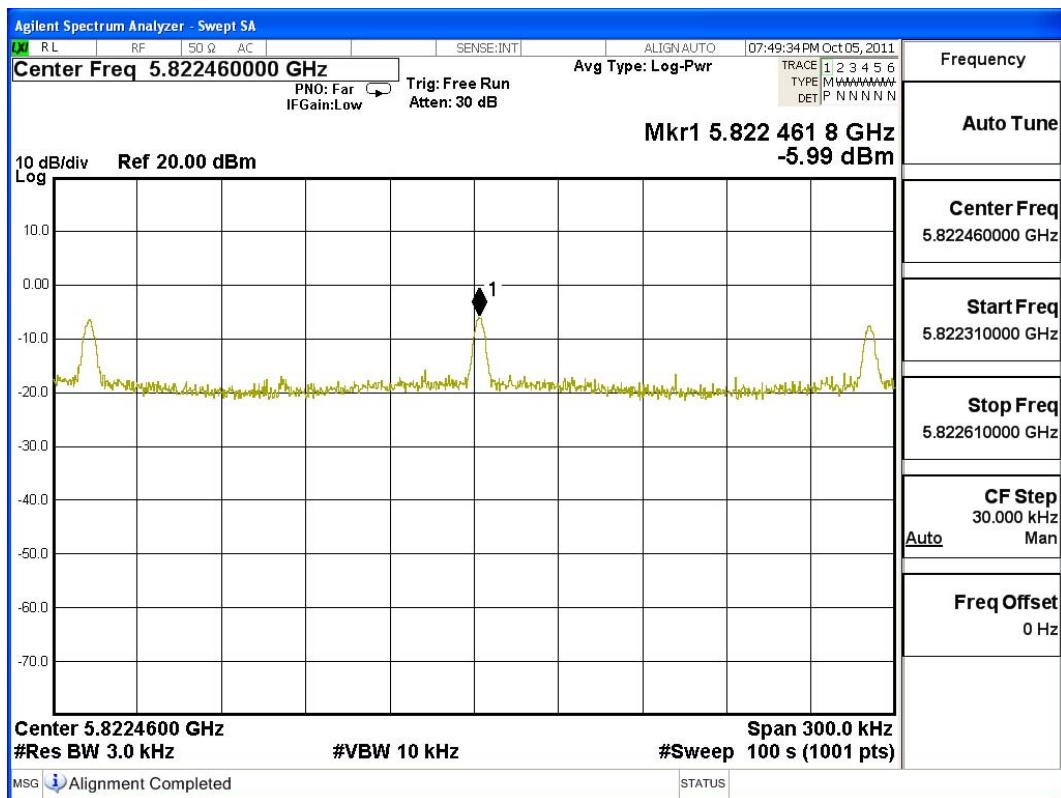
Figure Channel 157:



Product : WHDI Rx board
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 20BW (5825MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 165 | 5825.00 | -5.99 | < 8dBm | Pass |

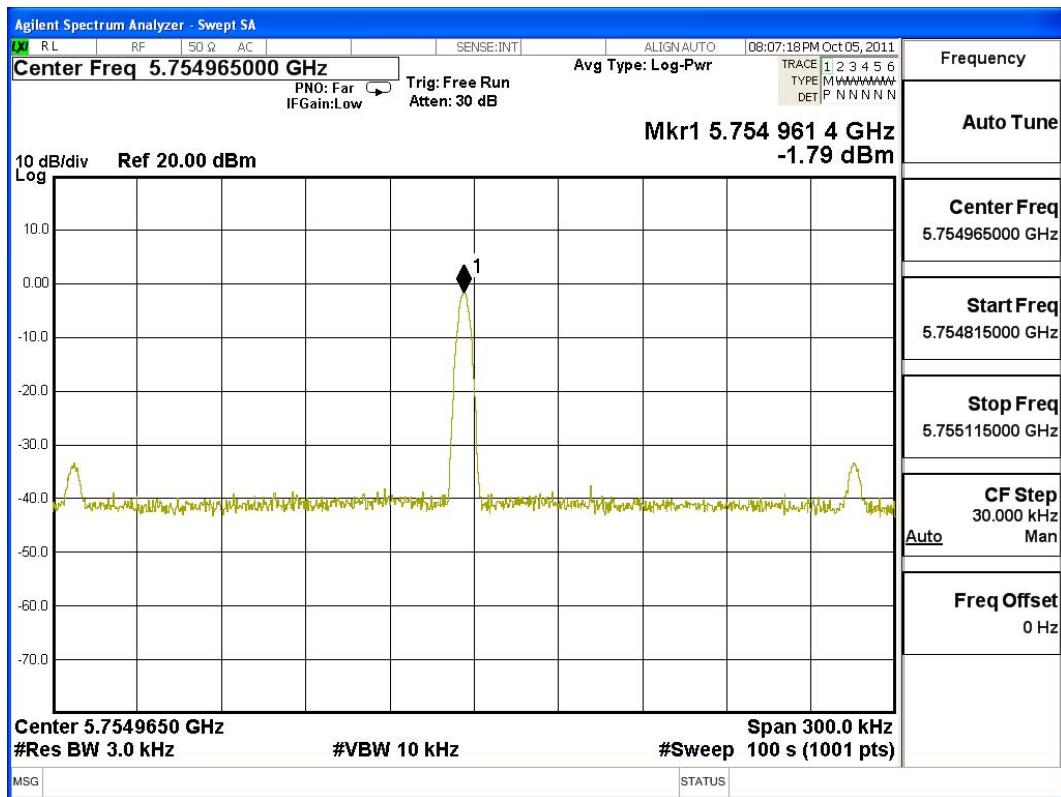
Figure Channel 165:



Product : WHDI Rx board
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 40BW (5755MHz)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 151 | 5755.00 | -1.79 | < 8dBm | Pass |

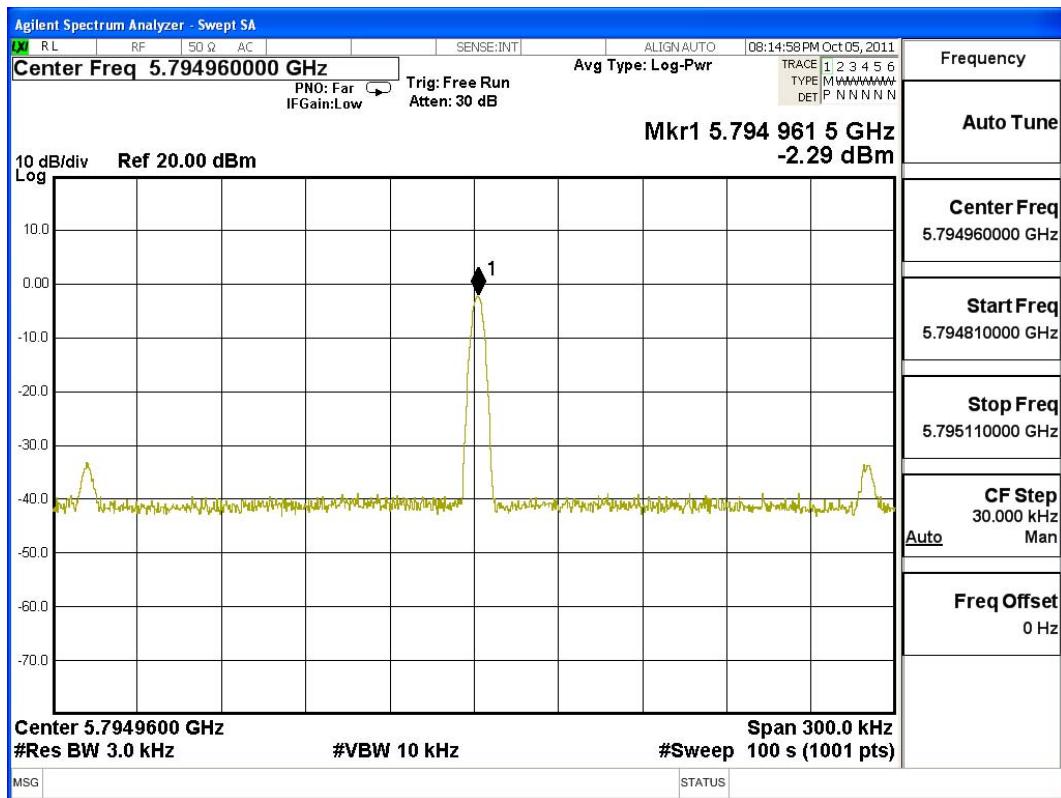
Figure Channel 151:



Product : WHDI Rx board
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 2: Transmit - 40BW (5795MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 159 | 5795.000 | -2.29 | < 8dBm | Pass |

Figure Channel 159:



9. EMI Reduction Method During Compliance Testing

No modification was made during testing.