Channe					
Channel	Frequency	Measurement Level	Required Limit	Result	
No.	(MHz)	(dB)	(dB)		
38	5190	12.090	<13	Pass	
46	5230	12.460	<13	Pass	

Chain C

Channel 38:

D Agilent Spectrum Analyzer	- Swept SA						
RL 50 Ω Center Freq 5.190	000000 GHz		⊤ #Avg Type	ALIGNAUTO E: Log-Pwr	03:35:20 PI	M Sep 30, 2011 E 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00	Auto Tune						
Log 10.0 0.00 -10.0	ประวัง		at and a substitution of the substitution of the	Carabapanananan Carabapanananan	H. Nontherness		Center Freq 5.190000000 GHz
-20.0 // //					1	My King with	Start Freq 5.165000000 GHz
-50.0							Stop Freq 5.215000000 GHz
Center 5.19000 GHz #Res BW 1.0 MHz	#VE	3W 3.0 MHz	FUNCTION FUN	#Sweep {	Span 5 500 ms (FUNCIO	0.00 MHz 1001 pts) NV4LUE	CF Step 5.000000 MHz <u>Auto</u> Man
1 N 1 f 2 N 2 f 3 - - - 4 - - - 5 - - - 6 - - - - 8 -	5.186 85 GHz 5.188 35 GHz	6.42 dBm -5.67 dBm					Freq Offset 0 Hz



D Agilent	Spectr	ım An	alyzer -	Swept S	5A			12	15						
Center	Free	^{50 Ω}	.2300	0000	00 G	Hz	A	c s J	ENSE:INT	#Avg 1	ALIO Type: L	og-Pwr	03:41:17F	M Sep 30, 2011 CE 1 2 3 4 5 6	Frequency
10 dB/div	OddB/div Ref 20.00 dBm Atten: 30 dB Der /P SNNN											Auto Tune			
Log 10.0 0.00 -10.0		(and the second	alexel and a	-	n _{uder} li	Lynarf W			2	the forther to for	-adi dapat	line of the pla	n-th-the n-they		Center Freq 5.230000000 GHz
-20.0	and a													A shall have	Start Freq 5.205000000 GHz
-50.0 -60.0 -70.0															Stop Freq 5.255000000 GHz
Center #Res B	5.23 W 1.0	000 0 MI	GHz Hz	×		#\	vBW	3.0 MH:		UNCTION	#S	weep	Span : 500 ms (FUNCT	50.00 MHz (1001 pts) 0NVALUE	CF Step 5.000000 MHz <u>Auto</u> Man
1 N 2 N 3 4 5 6	2	f		5.	230 0	0 GHz		-4.43	iBm iBm						Freq Offset 0 Hz
7 8 9 10 11 12															
MSG	·						.					STATUS			1

Channel 46:

Channel	Frequency	Measurement Level	Required Limit	Result	
No.	(MHz)	(dB)	(dB)		
38	5190	11.370	<13	Pass	
46	5230	11.720	<13	Pass	

Chain D

Channel 38:

🗊 Agilent	Spectrum	Analyzer -	Swept SA								
Center	r Freq	Ω 5.1900	00000 G	Hz	AC SE		#Avg Typ	ALIGNAUTO e: Log-Pwr	03:48:10 P TRAC	M Sep 30, 2011 E 1 2 3 4 5 6	Frequency
10 dB/di	Input: Kd PRO: Fast IFGain:Low Atten: 30 dB Der /P SNNN 10 dB/div Ref 20.00 dBm -5.31 dBm										Auto Tune
10.0 0.00 -10.0		harmonglin	······································	wata social and	1	al and the second state	alandor - Halox	2 munitimeter	Charitte With the		Center Freq 5.190000000 GHz
-20.0 -30.0 -40.0	unal of	4								A A CONNECTOR	Start Freq 5.165000000 GHz
-50.0											Stop Freq 5.215000000 GHz
Center #Res B	5.190 W 1.0	00 GHz MHz	×	#VB\	N 3.0 MHz	FUI	NCTION FU	#Sweep	Span 5 500 ms (0.00 MHz 1001 pts) INVALUE	CF Step 5.000000 MHz <u>Auto</u> Man
2 N 3 4 5 6	2 f		5.200 1	0 GHz	-5.31 d	Bm					Freq Offset 0 Hz
9 10 11 12											
MSG								STATUS			



D Agile	ent S	pect	rum /	Analyzer -	Swept SA	j.		.05						
Cent	er	Fre	50 Ω	5.2300	00000) GH:	z	AC S		#Avg Ty	ALIGNAUTO pe: Log-Pwr	03:56:40 F	M Sep 30, 2011 E 1 2 3 4 5 6	Frequency
10 dB	IFGain:Low Atten: 30 dB Der P SNNN Mkr2 5.220 70 GHz -4.69 dBm -4.69 dBm											Auto Tune		
Log 10.0 - 0.00 - -10.0 -			1	And Alexandre	and the state of t	the Way	2 An Allhau	1	A - Inglighted a	un al an	Www.at-ip idity	and an apply and a second		Center Freq 5.230000000 GHz
-20.0 -30.0 -40.0	aly for	di que											A Langer	Start Freq 5.205000000 GHz
-50.0 - -60.0 - -70.0 -														Stop Freq 5.255000000 GHz
Cent #Res	er 5 BV	5.23 V 1.	8000 .0 N) GHz 1Hz			#VB\	N 3.0 MH	z		#Sweep	Span 5 500 ms (0.00 MHz 1001 pts)	CF Step 5.000000 MHz
MKH M	N	1	f		5.2	26 80 (GHz	7.03	dBm	FUNCTION	UNCTION WIDTH	FUNCTI	UN VALUE	Auto Man
2 3 4 5 6	N	2	f		5.2	20 70 (GHz	-4.69	dBm					Freq Offset 0 Hz
7 8 9 10 11 12														
MSG							L		1		STATUS	6		1

Channel 46:

6. Radiated Emission

6.1. Test Equipment

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

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

6.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



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.

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)

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15.407 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.

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 form 30MHz - 10th Harmonic of fundamental was investigated.

6.5. Uncertainty

- ± 3.8 dB below 1GHz
- ± 3.9 dB above 1GHz

6.6. Test Result of Radiated Emission

Product	:	WHDI Tx board
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (31.5Mbps 20MBW) (5180MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
10360.000	12.930	36.950	49.880	-24.120	74.000
15540.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
Average					
Detector:					
10360.000	*	*	*	*	54.000
15540.000	*	*	*	*	54.000
20720.000	*	*	*	*	54.000
25900.000	*	*	*	*	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 Tx board									
Test Item	: Harmon	nic Radiated Emiss	sion Data							
Test Site	: No.3 O	ATS								
Test Mode	: Mode 1	: Transmit (31.5M	lbps 20MBW) (5180N	MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit					
	Factor	Level	Level							
MHz	dB	dBuV	dBuV/m	dB	dBuV/m					
Vertical										
Peak Detector:										
10360.000	13.724	39.970	53.694	-20.306	74.000					
15540.000	*	*	*	*	74.000					
20720.000	*	*	*	*	74.000					
25900.000	*	*	*	*	74.000					
Average										
Detector:										
10360.000	*	*	*	*	54.000					
15540.000	*	*	*	*	54.000					
20720.000	*	*	*	*	54.000					
25900.000	*	*	*	*	54.000					

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- 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 Tx board									
Test Item	: Harmon	ic Radiated Emiss	sion Data							
Test Site	: No.3 O	ATS								
Test Mode	: Mode 1	: Transmit (31.5M	lbps 20MBW) (5220N	MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit					
	Factor	Level	Level							
MHz	dB	dBuV	dBuV/m	dB	dBuV/m					
Horizontal										
Peak Detector:										
10440.000	13.322	37.700	51.022	-22.978	74.000					
15660.000	*	*	*	*	74.000					
20880.000	*	*	*	*	74.000					
26100.000	*	*	*	*	74.000					
Average										
Detector:										
10440.000	*	*	*	*	74.000					
15660.000	*	*	*	*	74.000					
20880.000	*	*	*	*	74.000					
26100.000	*	*	*	*	74.000					

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- 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 Tx board					
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 1: Transmit (31.5Mbps 20MBW) (5220MHz)					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Vertical						
Peak Detector:						
10440.000	14.245	42.000	56.245	-17.755	74.000	
15660.000	*	*	*	*	74.000	
20880.000	*	*	*	*	74.000	
26100.000	*	*	*	*	74.000	
Average						
Detector:						
10440.000	14.245	36.260	50.505	-3.495	74.000	
15660.000	*	*	*	*	74.000	
20880.000	*	*	*	*	74.000	
26100.000	*	*	*	*	74.000	

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- 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	Гх board				
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 1	Transmit (31.5M	lbps 20MBW) (5240N	MHz)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
10480.000	13.693	37.130	50.824	-23.176	74.000	
15720.000	*	*	*	*	74.000	
20960.000	*	*	*	*	74.000	
26200.000	*	*	*	*	74.000	
Average						
Detector:						
10480.000	*	*	*	*	74.000	
15720.000	*	*	*	*	74.000	
20960.000	*	*	*	*	74.000	
26200.000	*	*	*	*	74.000	

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- 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 Tx board					
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 1	: Transmit (31.5M	lbps 20MBW) (5240N	/Hz)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Vertical						
Peak Detector:						
10480.000	14.620	40.100	54.721	-19.279	74.000	
15720.000	*	*	*	*	74.000	
20960.000	*	*	*	*	74.000	
26200.000	*	*	*	*	74.000	
Average						
Detector:						
10480.000	14.620	33.810	48.431	-5.569	74.000	
15720.000	*	*	*	*	74.000	
20960.000	*	*	*	*	74.000	
26200.000	*	*	*	*	74.000	

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- 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 Tx board					
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 2	: Transmit (63Mbj	ps 40MBW) (5190MI	Hz)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
10380.000	12.939	38.000	50.939	-23.061	74.000	
15570.000	*	*	*	*	74.000	
20760.000	*	*	*	*	74.000	
25950.000	*	*	*	*	74.000	
Average						
Detector:						
10380.000	*	*	*	*	74.000	
15570.000	*	*	*	*	74.000	
20760.000	*	*	*	*	74.000	
25950.000	*	*	*	*	74.000	

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- 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 Tx board					
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 2: Transmit (63Mbps 40MBW) (5190MHz)					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Vertical						
Peak Detector:						
10380.000	13.796	42.470	56.266	-17.734	74.000	
15570.000	*	*	*	*	74.000	
20760.000	*	*	*	*	74.000	
25950.000	*	*	*	*	74.000	
Average						
Detector:						
10380.000	13.796	36.560	50.356	-3.644	74.000	
15570.000	*	*	*	*	74.000	
20760.000	*	*	*	*	74.000	
25950.000	*	*	*	*	74.000	

- 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 Tx board					
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 2: Transmit (63Mbps 40MBW) (5230MHz)					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
10460.000	13.508	38.740	52.248	-21.752	74.000	
15690.000	*	*	*	*	74.000	
20920.000	*	*	*	*	74.000	
26150.000	*	*	*	*	74.000	
Average						
Detector:						
10460.000	*	*	*	*	74.000	
15690.000	*	*	*	*	74.000	
20920.000	*	*	*	*	74.000	
26150.000	*	*	*	*	74.000	

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- 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 Tx board					
Test Item	: Harmonic Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 2:	Transmit (63Mb)	ps 40MBW) (5230MI	Hz)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Vertical						
Peak Detector:						
10460.000	14.433	43.220	57.653	-16.347	74.000	
15690.000	*	*	*	*	74.000	
20920.000	*	*	*	*	74.000	
26150.000	*	*	*	*	74.000	
Average						
Detector:						
10460.000	14.433	37.930	52.363	-1.637	74.000	
15690.000	*	*	*	*	74.000	
20920.000	*	*	*	*	74.000	
26150.000	*	*	*	*	74.000	

- 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 Tx board				
Test Item	: General Radiated Emission				
Test Site	: No.3 OA	ATS			
Test Mode	: Mode 1	: Transmit (31.5M	bps 20MBW) (5220N	/Hz)	
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
111.480	-7.914	38.582	30.668	-12.832	43.500
229.820	-8.162	41.181	33.019	-12.981	46.000
400.540	-2.276	40.690	38.414	-7.586	46.000
629.460	1.560	32.417	33.977	-12.023	46.000
875.840	5.271	29.874	35.145	-10.855	46.000
1000.000	9.119	29.717	38.836	-15.164	54.000
Vertical					
Peak Detector					
111.480	-0.954	40.065	39.111	-4.389	43.500
258.920	-7.490	36.216	28.726	-17.274	46.000
396.660	-4.356	45.482	41.126	-4.874	46.000
499.480	-0.852	36.355	35.503	-10.497	46.000
699.300	0.695	29.588	30.283	-15.717	46.000
875.840	1.621	30.273	31.894	-14.106	46.000

- 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 Tx board				
Test Item	: General Radiated Emission				
Test Site	: No.3 OA	ATS			
Test Mode	: Mode 2:	Transmit (63Mbp	os 40MBW) (5230MH	Iz)	
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
103.720	-6.751	37.500	30.748	-12.752	43.500
229.820	-8.162	40.557	32.395	-13.605	46.000
398.600	-2.268	38.612	36.344	-9.656	46.000
662.440	2.084	30.812	32.896	-13.104	46.000
875.840	5.271	30.273	35.544	-10.456	46.000
1000.000	9.119	29.747	38.866	-15.134	54.000
Vertical					
Peak Detector					
111.480	-0.954	41.427	40.473	-3.027	43.500
258.920	-7.490	36.973	29.483	-16.517	46.000
398.600	-4.678	35.598	30.920	-15.080	46.000
499.480	-0.852	35.501	34.649	-11.351	46.000
749.740	2.510	29.678	32.188	-13.812	46.000
930.160	6.477	25.953	32.430	-13.570	46.000

- 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.

7. Band Edge

7.1. 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
Х	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.
Site # 3	# 3 Bilog Antenna		Schaffner Chase	CBL6112B/2673	Sep., 2011
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2011
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2011
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2011
	Х	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2011
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2011
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2011
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2011
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2011
	Х	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	Х	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.

7.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



7.3. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 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 : 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

7.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 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 can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2009 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The EUT was setup to ANSI C63.4, 2009; tested to DTS test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.5. Uncertainty

- \pm 3.8 dB below 1GHz
- ± 3.9 dB above 1GHz

7.6. Test Result of Band Edge

Product	:	WHDI Tx board
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (31.5Mbps 20MBW) -Channel 36

Fundamental Filed Strength

Antenna	Frequency	Reading Level	Correction Factor	Emission Level	Detector
Pole	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	
Horizontal	5180	34.966	66.62	101.586	Peak
Horizontal	5180	34.966	53.08	88.046	Average
Vertical	5180	37.073	68.77	105.844	Peak
Vertical	5180	37.073	54.73	91.804	Average

Note: 1:Spectrum Analyzer setting:

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

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

Band Edge Test Data (Chain A)

Antenna Pole	Test Frequency	Fundamental	Δ (dB)	Band Edge Field Strength	Requiqment Limit	Detector
	(MHz)	(dBuV/m)		(dBuV/m)	(dBuV/m)	
Horizontal	5148.4	101.586	50.58	51.006	74.000	Peak
Horizontal	5148.3	88.046	49.67	38.376	54.000	Average
Vertical	5148.4	105.844	50.58	55.264	74.000	Peak
Vertical	5148.3	91.804	49.67	42.134	54.000	Average

Band Edge Test Data (Chain B)

Antenna Pole	Test Frequency	Fundamental	Δ (dB)	Band Edge Field Strength	Requiqment Limit	Detector
	(MHz)	(dBuV/m)		(dBuV/m)	(dBuV/m)	
Horizontal	5148	101.586	49.43	52.156	74.000	Peak
Horizontal	5148.4	88.046	47.95	40.096	54.000	Average
Vertical	5148	105.844	49.43	56.414	74.000	Peak
Vertical	5148.4	91.804	47.95	43.854	54.000	Average

Antenna Pole	Test Frequency	Fundamental	Δ (dB)	Band Edge Field Strength	Requiqment Limit (dBuV/m)	Detector
	(101112)	(ubu v/iii)		(ubu v/iii)	(abu v/iii)	
Horizontal	5146.9	101.586	48.68	52.906	74.000	Peak
Horizontal	5148.4	88.046	50.84	37.206	54.000	Average
Vertical	5146.9	105.844	48.68	57.164	74.000	Peak
Vertical	5148.4	91.804	50.84	40.964	54.000	Average

Band Edge Test Data (Chain C)

Band Edge Test Data (Chain D)

Antenna Pole	Test Frequency	Fundamental	Δ (dB)	Band Edge Field Strength	Requiqment Limit	Detector
	(MHz)	(dBuV/m)		(dBuV/m)	(dBuV/m)	
Horizontal	5148.6	101.586	51.87	49.716	74.000	Peak
Horizontal	5148.7	88.046	56.34	31.706	54.000	Average
Vertical	5148.6	105.844	51.87	53.974	74.000	Peak
Vertical	5148.7	91.804	56.34	35.464	54.000	Average

Note:

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

Band Edge field Strength = $F - \Delta$

F = Fundamental field Strength (Peak or Average)

 Δ = Conducted Band Edge Delta (Peak or Average)

M Ag	ilent S	Spect	rum	Analyzer - S	Swept SA				100		9			
ιxи ℝ Cer	L nter	Fre	50 s eq	2 5.1500	00000 GI	Hz	AC	SEN	SE:INT	Avg T	ALIGN AU ype: Log-P	10:11 vr	20 AM Sep 30, 2011 TRACE 1 2 3 4 5 6	Frequency
10 d	B/div	,	Ref	^{Ing}	out: RF PN IFG JBm	10: Fast Sain:Low	At	ten: 30	dB		1	//////////////////////////////////////	148 4 GHz 1.79 dBm	Auto Tune
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-50.0 -60.0 -70.0														Stop Freq 5.20000000 GHz
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12 MSG											ST	ATUS		

Peak Detector of conducted Band Edge Delta-Chain A

Average Detector of conducted Band Edge Delta-Chain A

Mark So Q AC SENSE:INT ALIONAUTO ID: ID: 32 AM Sep 30, 2011 Frequence Center Freq 5.150000000 GHz Input: RF PN0: Fast Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Treg: ID: 3 4 3 GHz Frequence 10 dB/div Ref 20.00 dBm -54.69 dBm -54.69 dBm -5160000000 10 dB/div Ref 20.00 dBm -54.69 dBm -5160000000 -5160000000 10 dB/div Ref 20.00 dBm -54.69 dBm -5160000000 -5160000000 10 dB/div Ref 20.00 dBm -54.69 dBm -5160000000 -5160000000 10 dB/div Ref 20.00 dBm -54.69 dBm -5160000000 -5160000000 10 dB/div -53.2 -54.69 dBm -5160000000 -5160000000 -5160000000 10 dB/div -53.2 -54.69 dBm -5100000000 -5100000000 -5100000000 -5100000000 -5200000000 -5200000000 -5200000000 -5200000000 -5200000000 -52000000000 -52000000000 -5200000000 -5200000000 -52000000000 -52000000000 -52000000000 -5200000	Agilent Spectrum Analyz	m Analyzer - Swept SA			
Input: NI- PNO: Fast Ing.: ree real Der PNNNNN Index Atten: 30 dB Mkr3 5.148 3 GHz 54.69 dBm Auto 1 10 dB/div Ref 20.00 dBm -54.69 dBm Center 10.0	a RL 50 Ω Center Freq 5.15	AC SENSE	EINT ALIGNAUTO Avg Type: Log-Pwr	10:10:32 AM Sep 30, 2011 TRACE 1 2 3 4 5 6	Frequency
Log Center 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 200 <td>10 dB/div Ref 20.1</td> <td>Input: RI- PNO: Fast C - Ing. Free R IFGain:Low Atten: 30 dE</td> <td>Mk</td> <td>r3 5.148 3 GHz -54.69 dBm</td> <td>Auto Tune</td>	10 dB/div Ref 20.1	Input: RI- PNO: Fast C - Ing. Free R IFGain:Low Atten: 30 dE	Mk	r3 5.148 3 GHz -54.69 dBm	Auto Tune
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	-50.0				Stop Freq 5.200000000 GHz
Center 5.15000 GHz Span 100.0 MHz CF # #Res BW 1.0 MHz #VBW 10 Hz Sweep 7.80 s (1001 pts) 10.000000	Center 5.15000 GH #Res BW 1.0 MHz	00 GHz MHz #VBW 10 Hz	Sweep	Span 100.0 MHz 7.80 s (1001 pts)	CF Step 10.000000 MHz
1 N 1 f 5.178 5 GHz -5.02 dBm -	I N I f 2 N 1 f 3 N 1 f 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - 10 - - 12 - - - -	5.178 5 GHz -5.02 dBm 5.150 0 GHz -56.61 dBm 5.148 3 GHz -54.69 dBm			Freq Offset 0 Hz

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Peak Detector of conducted Band Edge Delta-Chain B

Average Detector of conducted Band Edge Delta-Chain B

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Center 5.15000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	#Sweep 5	Span 100.0 MHz 00 ms (1001 pts) CF Step 10.000000 MHz EUNITION VALUE
1 N 1 f 2 N 1 f 3 N 1 f 4 - - - 6 - - - 7 - - - 8 - - - 9 - - - 10 - - - 11 - - -	5.180 7 GHz 8.26 dBm 5.150 0 GHz -43.17 dBm 5.146 9 GHz -40.42 dBm		Freq Offset
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Peak Detector of conducted Band Edge Delta-Chain C

Average Detector of conducted Band Edge Delta-Chain C

💴 Agilent Spo	ectrum Analyze	r - Swept SA						
Center F	^{50 Ω} req 5.150	0000000 GHz	AC SENSE:IN	⊤ Avg Type	ALIGNAUTO : Log-Pwr	10:50:43 AI TRAC	M Sep 30, 2011 E 1 2 3 4 5 6 E M MANANAN	Frequency
10 dB/div	Ref 20.0	Input: RF PNU: Fas IFGain:Lo	Atten: 30 dB		Mk	r3 5.148 -54.3	3 4 GHz 38 dBm	Auto Tune
Log 10.0 0.00 -10.0						1		Center Freq 5.150000000 GHz
-20.0 -30.0 -40.0			▲32					Start Freq 5.100000000 GHz
-50.0 -60.0 -70.0								Stop Freq 5.200000000 GHz
Center 5. #Res BW	15000 GHz 1.0 MHz	2 #\ ×	/BW 10 Hz	FUNCTION FUI	Sweep	Span 1 7.80 s (1	00.0 MHz 1001 pts) NVALUE	CF Step 10.000000 MHz Auto Man
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Peak	Detector of conducted	Band Edge Delta-	Chain D
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Center Freq 5.1500000		ALIGNAUTO 11:12:26 Avg Type: Log-Pwr	AM Sep 30, 2011 ACE 1 2 3 4 5 6 YPE M WAAAAAAA
10 dB/div Ref 20.00 dBm	IFGain:Low Atten: 30 dB	Mkr3 5.14 -42	Auto Tune
10.0 0.00 -10.0		1	Center Freq 5.15000000 GHz
-20.0	32	and the second s	Start Freq 5.10000000 GHz
-50.0			Stop Freq 5.20000000 GHz
Center 5.15000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Span #Sweep 500 ms	100.0 MHz (1001 pts) CF Step 10.000000 MHz
MKR MODE TRC SCL	× Y FU 5.180 5 GHz 9.24 dBm 5 150 0 GHz 45 72 dBm	JNCTION FUNCTION WIDTH FUNC	Auto Man
3 N 1 f 4 5 6	5.148 6 GHz -42.63 dBm		Freq Offset
7 8 9 10 11			
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💴 Agilent Spo	ectrum Analyz	ter - Swept SA								
Center F	50 Ω Freq 5.15	50000000 GH	lz	AC SENS	BE:INT	Avg Type	ALIGNAUTO : Log-Pwr	11:11:36 A TRAC	M Sep 30, 2011	Frequency
10 dB/div	Ref 20.	00 dBm	0: ⊦ast ⊆ _► ain:Low	Atten: 30 d	1B		Mk	r3 5.14	B 7 GHz 88 dBm	Auto Tune
Log 10.0 0.00 -10.0								1		Center Frec 5.150000000 GH2
-20.0 -30.0 -40.0										Start Fred 5.100000000 GH2
-50.0 -60.0 -70.0					2				~~~	Stop Free 5.200000000 GH:
Center 5. #Res BW	15000 GH 1.0 MHz	Iz	#VBW	/ 10 Hz			Sweep	Span 1 7.80 s (00.0 MHz 1001 pts)	CF Step 10.000000 MHz
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Average Detector of conducted Band Edge Delta-Chain D

Product	:	WHDI Tx board
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (31.5Mbps 20MBW)-Channel 48

Chain A

Test Frequency	Measurement Level (20dB BW)	Limit	Result
(MHz)	(MHz)	(MHz)	
5240	5249.60	<5250	PASS

🗊 Agi	ilent S	ipect	rum	Analyzer -	Swept SA									
Cen	L Iter	Fre	50 ភ eq	5.2400	00000 G	iHz	AC	SEI	NSE:INT	Avg	ALIGNAUTO Type: Log-Pwr	10:27:57 / TRA	M Sep 30, 2011 CE 1 2 3 4 5 6	Frequency
10 dl	B/div	,	Ref	^{In} 20.00 (put: RF P IF d B m	'NO: Fast Gain:Low	, ,	Atten: 30	dB		Mkr	2 5.249 -16.	60 GHz 64 dBm	Auto Tune
10.0 0.00 -10.0							a Andrew	sontradisi	1	et a grant and a grant and a grant a gr	2		16.08.dBm	Center Frec 5.240000000 GHz
-20.0 -30.0 -40.0			N	human har man	and	/					here	and the second		Start Frec 5.215000000 GHz
-50.0 -60.0 -70.0														Stop Frec 5.265000000 GHz
Cen #Re	ter (s B)	5.24 N 3	100 00	0 GHz kHz	×	#V	BW ·	1.0 MHz	2 m l	JNCTION	#Sweep	Span 5 500 ms f	50.00 MHz (1001 pts) 0NVALUE	CF Step 5.000000 MHz <u>Auto</u> Mar
2 3 4 5 6 7 8 9	N	1	f		5.249 6	30 GHz		3.92 di -16.64 di	3m 3m					Freq Offse 0 Ha
9 10 11 12 MSG											STATU	s		

Chain B

Test Frequency	Measurement Level (20dB BW)	Limit	Result
(MHz)	(MHz)	(MHz)	
5240	5249.65	<5250	PASS

D Agilent Spectrum Analyzer - Swept SA	
M RL 50 Ω AC SENSE:INT ALIGNAUTO 10:45:47 AM Sep 30, 2011 Center Freq 5.240000000 GHz Trace [1 2 3 4 5 6 Avg Type: Log-Pwr Trace [1 2 3 4 5 6	Frequency
Input: RF PNO: Fast C Ing. Free Run IFGain:Low Atten: 30 dB Mkr2 5.249 65 GHz 10 dB/div Ref 20.00 dBm -15.24 dBm	Auto Tune
Log 1 1 10.0 1 2 10.0 1 1	Center Freq 5.240000000 GHz
	Start Freq 5.215000000 GHz
-50.0	Stop Freq 5.265000000 GHz
Center 5.24000 GHz Span 50.00 MHz #Res BW 300 kHz #VBW 1.0 MHz #Sweep 500 ms (1001 pts) ImkRi Model TRC ScLip X Y Function Value	CF Step 5.000000 MHz Auto Man
1 N 1 f 5.238 80 GHz 5.03 dBm 2 N 1 f 5.249 65 GHz -15.24 dBm 3	Freq Offset 0 Hz
10 11 12 12	

Chain C

Test Frequency	Measurement Level (20dB BW)	Limit	Result
(MHz)	(MHz)	(MHz)	
5240	5249.55	<5250	PASS

🗊 Agi	ilent S	pectr	um /	Analyzer - S	Swept SA							5p.		
Cen	L Iter	Fre	50 Ω	5.2400	00000 G	Hz	AC	SE	NSE:INT	Avg	ALIGN AUTO Type: Log-Pwr) 11:01:59 TR4	AM Sep 30, 2011 CE 1 2 3 4 5 6	Frequency
				Inj	put: RF P IF	NO: Fast Gain:Lov	,	frig: Free Atten: 30	e Run dB		Mk	r2 5.249	55 GHz	Auto Tune
10 di	B/div	Ĵ	Ref	20.00 c	dBm							-15.	.67 dBm	
10.0 0.00						pau	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	1	the superior	~			Center Freq 5.240000000 GHz
-10.0			_			1			<u>}</u>		♦ ²		-14.79 dBm	
-20.0 -30.0 -40.0					and						horas	nn,		Start Freq 5.215000000 GHz
-50.0	Loris	handh	M	1 martin						-		[www	Munno	
-60.0 -70.0										-				Stop Freq 5.265000000 GHz
Cen #Re	ter : s B\	5.24 N 3	000 00 I) GHz (Hz		#V	BW 1.	0 MHz	27		#Sweep	Span : 500 ms	50.00 MHz (1001 pts)	CF Step 5.000000 MHz
MKR 1	MODE	TRC	SCL		× 5 240 (5 GHz		Y 5 21 d	Fl Ban	INCTION	FUNCTION WIDT	H FUNCT	ION VALUE	<u>Auto</u> Man
2	N	1	f	6	5.249 5	5 GHz		15.67 dl	3m					·
4														Freq Offset
6														0 112
8														
10														
11 12	-													
1 4 s	tart		e (a 🛛 🖉	D Ag	ilent Spectri	um Ana	1						<

Chain D

Test Frequency	Measurement Level (20dB BW)	Limit	Result
(MHz)	(MHz)	(MHz)	
5240	5249.65	<5250	PASS

D Agi	ilent S	Spect	rum	Analyzer -	Swept SA				12						
Cen	L Iter	Fre	50 S	2 5.2400	00000 G	Hz	AC	SE	NSE:INT	Avg	ALIGNAUT	11:2 /r	1:30 Al	M Sep 30, 2011 E 1 2 3 4 5 6	Frequency
				In	put: RF P IFI	NO: Fast Gain:Low		rig: Free Atten: 30	e Run dB				DE		
10 di	B/div	, 1	Ref	20.00	dBm						MI	kr2 5.2	249 17.9	65 GHz 93 dBm	Auto Tulle
Log 10.0							0								Center Freq
0.00	\vdash					Mar	when me	an and a	Cardin Carlo and	and any week	1 2				5.240000000 GHz
-20.0			_			/					¥-			-17.50 dBm	
-30.0			_		1	1				_	1	_		·	Start Freq
-40.0			al	MIN	manger	0					borger	m	A A	N	5.215000000 GHz
-50.0	augh.	- Marriel	1	He shere		-						~	n ny	hardenen	
-60.0			+												Stop Freq
-70.0															0.20000000 0112
Cen #Re	ter : s B\	5.24 N 3	100 00	0 GHz kHz		#V	BW 1.	0 MHz	0		#Swee	Sp p 500 i	an 5 ms (0.00 MHz 1001 pts)	CF Step
MKR	MODE	TRC	SCL		×			Y	FU	NCTION	FUNCTION WID	TH F	UNCTIO	IN VALUE	Auto Man
1	N N	1	f		5.234 2 5.249 6	0 GHz 5 GHz	2	2.50 d 17.93 dl	Bm 3m						
3															Freq Offset
5			_	<u>.</u>					-			-			0 Hz
7	,	_	_	-							-	-			
9 10			_												
11 12															
Au s	tart	-	e 1	i 🛛 🧭	D Aqi	lent Spectru	m Ana	1			e.				🤇 🏂 🔎 🙆 11:21 AM

Product	:	WHDI Tx board
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (63Mbps 40MBW) -Channel 38

Fundamental Filed Strength

Antenna	Frequency	Reading Level	Correction Factor	Emission Level	Detector
Pole	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	
Horizontal	5190	34.907	62.88	97.788	Peak
Horizontal	5190	34.907	49.35	84.258	Average
Vertical	5190	37.077	64.18	101.258	Peak
Vertical	5190	37.077	57.11	94.188	Average

Note: 1:Spectrum Analyzer setting:

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

Average detector: RBW=1MHz, VBW=30Hz

Band Edge Test Data (Chain A)

Antenna Pole	Test Frequency	Fundamental	Δ (dB)	Band Edge Field Strength	Requiqment Limit	Detector
	(MHz)	(dBuV/m)		(dBuV/m)	(dBuV/m)	
Horizontal	5149.1	97.788	43.85	53.938	74.000	Peak
Horizontal	5150	84.258	42.73	41.528	54.000	Average
Vertical	5149.1	101.258	43.85	57.408	74.000	Peak
Vertical	5150	94.188	42.73	51.458	54.000	Average

Band Edge Test Data (Chain B)

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Requiqment Limit (dBuV/m)	Detector
Horizontal	5149.6	97.788	44.31	53.478	74.000	Peak
Horizontal	5150	84.258	46.95	37.308	54.000	Average
Vertical	5149.6	101.258	44.31	56.948	74.000	Peak
Vertical	5150	94.188	46.95	47.238	54.000	Average

Antenna Pole	Test Frequency	Fundamental	Δ (dB)	Band Edge Field Strength	Requiqment Limit	Detector
	(MHz)	(dBuV/m)		(dBuV/m)	(dBuV/m)	
Horizontal	5149.6	97.788	44.22	53.568	74.000	Peak
Horizontal	5150	84.258	41.85	42.408	54.000	Average
Vertical	5149.6	101.258	44.22	57.038	74.000	Peak
Vertical	5150	94.188	41.85	52.338	54.000	Average

Band Edge Test Data (Chain C)

Band Edge Test Data (Chain D)

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Requiqment Limit (dBuV/m)	Detector
Horizontal	5150	97.788	43.61	54.178	74.000	Peak
Horizontal	5150	84.258	45.42	38.838	54.000	Average
Vertical	5150	101.258	43.61	57.648	74.000	Peak
Vertical	5150	94.188	45.42	48.768	54.000	Average

Note:

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

Band Edge field Strength = $F - \Delta$

F = Fundamental field Strength (Peak or Average)

 Δ = Conducted Band Edge Delta (Peak or Average)

D Ag	ilent S	Spect	rum	Analyzer - S	iwept SA				19	0	91		
	ter	Fre	50 S	2 5 15000	10000 GI	-17	AC SE	ENSE:INT	Ava Tva	ALIGNAUTO	03:01:45P	M Sep 30, 2011	Frequency
10 d	IB/div	,	Ref	f 20.00 d	IBm	IO: Fast (Gain:Low	Trig: Fre Atten: 30	e Run) dB		Mk	r3 5.149 -38.	9 1 GHz 11 dBm	Auto Tune
Log 10.0 0.00												former	Center Freq 5.150000000 GHz
-20.0 -30.0 -40.0	 	وينو سولو	8-4-	-	materianantes	water-landiated	whowen along	3!	hall for make a share to				Start Freq 5.100000000 GHz
-50.0 -60.0 -70.0													Stop Freq 5.20000000 GHz
Cer #Re	nter : es Bl	5.1: W 1	500 .0 M	0 GHz VIHz		#VB	W 1.0 MHz			#Sweep	Span 1 500 ms (00.0 MHz 1001 pts)	CF Step 10.000000 MHz
MKR 1	MODE	TRC 1	SCL		× 5,187 (0 GHz	Y 5.74 c	FU IBm	NCTION F	UNCTION WIDTH	FUNCTI	IN VALUE	<u>Auto</u> Man
2 3 4 5 6	N	1	f		5.150 5.149	0 GHz 1 GHz	-38.70 d -38.11 d	Bm Bm					Freq Offset 0 Hz
7 8 9 10 11													
MSG										STATUS	;		

Peak Detector of conducted Band Edge Delta-Chain A

Avorago	Detector	of con	ductod	Rond	Edaa	Dolto_	Chain	۸
AVELAGE	Delector	or con	uucieu	Danu	Luge	Dena-	Cham	A

🎾 Agilent Sp	ectrum Analyze	r - Swept SA						
Center F	^{50 Ω}	0000000 GHz	AC SENSE:	Avg Typ	ALIGNAUTO e: Log-Pwr	03:00:48 P TRAC	M Sep 30, 2011	Frequency
10 dB/div	Ref 20.0	Input: RF PNU: Fast IFGain:Low	Atten: 30 dB		Mk	r2 5.150 -52.3	0 0 GHz 86 dBm	Auto Tune
10.0 0.00 -10.0						1		Center Freq 5.150000000 GHz
-20.0 -30.0 -40.0			2					Start Freq 5.100000000 GHz
-50.0 -60.0 -70.0								Stop Freq 5.200000000 GHz
Center 5. #Res BW	15000 GHz 1.0 MHz	2 #VI	BW 10 Hz	FUNCTION FL	Sweep	Span 1 7.80 s (00.0 MHz 1001 pts) INVALUE	CF Step 10.000000 MHz Auto Man
1 N 2 N 3 4 5 6 7 8 9 10 11 12 12		5.186 2 GHz 5.150 0 GHz	-10.13 dBm -52.86 dBm					Freq Offset 0 Hz
MSG					STATUS			

D Ag	ilent 9	Spect	rum	Analyzer - S	iwept SA				1.3		9			
LXI ⊪ Cer	nter	Fre	50 S 2 d	5.1500	00000 G	Hz	AC	SENSE	INT	Avg Ty	ALIGNAUTO	03:20:37 F	M Sep 30, 2011	Frequency
10.4			Dof	Ing	IPm	NO: Fast Gain:Low	Atte	: Free R en: 30 dE	un 3		Mł	(r3 5.14) -36	9 6 GHz	Auto Tune
10.0 10.0 0.00				20.00 t							man		and many and many	Center Freq 5.15000000 GHz
-20.0 -30.0 -40.0	-	un an	wran	mlywooslytard	and the second	و يوران مورون	dumulmon	3		har bur me	/			Start Freq 5.10000000 GHz
-50.0 -60.0 -70.0														Stop Freq 5.20000000 GHz
Cer #Re	nter es B	5.1: W 1	500 .0 N	0 GHz /IHz		#VI	3W 1.0 I	MHz			#Sweep	Span 1 500 ms (00.0 MHz 1001 pts)	CF Step 10.000000 MHz
MKR 1	MODE N	TRC 1	SCL f		× 5.187	0 GHz	Y 7.	.63 dBn	FUN	CTION	FUNCTION WIDTH	FUNCTI	DN VALUE	<u>Auto</u> Man
2 3 4 5 6	N	1	f		5.149	6 GHz	-38. -36.	68 dBm						Freq Offset 0 Hz
7 8 9 10 11														
12 MSG				**							STATU	s		

Peak Detector of conducted Band Edge Delta-Chain B

Average Detector of conducted Band Edge Delta-Chain B

🎾 Agilent Spectrum A	nalyzer - Swept SA				
Center Freq 5	.150000000 GHz	AC SENSE:IN	T ALIGNAUTI Avg Type: Log-Pwi	0 03:19:38 PM Sep 30, 2011 TRACE 1 2 3 4 5 6 TYPE MUMANANAN	Frequency
10 dB/div Ref	Input: RF PNU: Fas IFGain:Lov 20.00 dBm	Atten: 30 dB	Μ	_{ber} P NNNN Ikr2 5.150 0 GHz -51.37 dBm	Auto Tune
10.0 0.00 -10.0				1	Center Freq 5.150000000 GHz
-20.0 -30.0 -40.0		2			Start Freq 5.100000000 GHz
-60.0					Stop Freq 5.20000000 GHz
Center 5.15000 #Res BW 1.0 M	GHz Hz #V	/BW 10 Hz	Swee	Span 100.0 MHz ep 7.80 s (1001 pts)	CF Step 10.000000 MHz
I N 1 f 1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 9 - - - 10 - - - 12 - - -	5.190 0 GHz 5.150 0 GHz	-4.42 dBm -51.37 dBm			Freq Offset 0 Hz

	D Agilent Spectrum Analyzer - Swept SA												
Cei	nter	Fre	50 s 9 q	2 5.1500	00000 GI	Hz	AC SI	ENSE:INT	Avg Ty	ALIGNAUTO pe: Log-Pwr	03:33:51 P	M Sep 30, 2011 E 1 2 3 4 5 6	Frequency
10 (B/div	,	Ref	Inj	out: RF Pf IFC	10: Fast C Gain:Low	Atten: 3	e Run 0 dB		Mk	r3 5.149 -39.1	6 GHz	Auto Tune
Log 10.1 0.0 -10.1										form my and		get may a server	Center Freq 5.150000000 GHz
-20.0 -30.0 -40.0		randarah	- ee Ari	Janlunkowskowsk	Been marked	welcon the	with any grade of the	3	al production of the	/			Start Freq 5.10000000 GHz
-50.1 -60.1 -70.1													Stop Freq 5.200000000 GHz
Cei #Re	nter es Bl	5.1: W 1	500 .0 M	0 GHz /IHz		#VB	W 1.0 MHz	2		#Sweep	Span 1 500 ms (00.0 MHz 1001 pts)	CF Step 10.000000 MHz
MKR 1	MODE N	TRC 1	f		× 5.186	5 GHz	¥ 5.07 c	FU IBm	NCTION	UNCTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> Man
2 3 4 5 6	N	1	f		5.150 5.149	0 GHz 6 GHz	-39.38 c -39.15 c	IBm IBm					Freq Offset 0 Hz
7 8 9 10 11													
MSG										STATUS	;		

Peak Detector of conducted Band Edge Delta-Chain C

Average Detector of conducted Band Edge Delta-Chain C

💴 Agilent Spectrum Analyzer	- Swept SA					
Center Freq 5.150	000000 GHz	AC SENSE:INT	ALIGN AU Avg Type: Log-Pv	TO 03:32:531 Nr TRA	PM Sep 30, 2011 CE 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00	Input: RF PNO: Fast IFGain:Low	Atten: 30 dB	Γ	/lkr2 5.15 -52.	0 0 GHz 10 dBm	Auto Tune
10.0 0.00 -10.0				1		Center Freq 5.15000000 GHz
-20.0 -30.0 -40.0		2				Start Freq 5.100000000 GHz
-50.0						Stop Freq 5.200000000 GHz
Center 5.15000 GHz #Res BW 1.0 MHz	#VE	3W 10 Hz	SWE	Span ′ ep 7.80 s	100.0 MHz (1001 pts)	CF Step 10.000000 MHz
1 N 1 f 3 1 f 3 4 4 5 6 6 7 7 8 9 9 10 11 11 12 12 12 12 12	5.185 9 GHz 5.150 0 GHz	-10.25 dBm -52.10 dBm				Freq Offset 0 Hz

D Ag	D Agilent Spectrum Analyzer - Swept SA														
LXI R	L	_	50 \$	2			AC	SENSE:I	NT	0	ALIGN AUTO	03:46:42P	M Sep 30, 2011	Frequency	
Lenter Freq 5.150000000 GHZ Input: RF PNO: Fast IFGain:Low							Trig: F Atten	Trig: Free Run Atten: 30 dB		Avg Type: Log-Pwr		TYPE MWWWWW DET P N N N N N			
10 d	Mkr2 5.150 0 GHz 10 dB/div Ref 20.00 dBm -37.94 dBm											Auto Tune			
Log 10.0 0.00													Mar Mark Jonation	Center Freq 5.150000000 GHz	
-20.0 -30.0 -40.0		uslue.		alar of the last of the second re-	manna	. Segure - Pressing	-entremone	2-	Arrie .	hor all small				Start Freq 5.100000000 GHz	
-50.0 -60.0 -70.0														Stop Freq 5.200000000 GHz	
Cer #Re	nter es Bl	5.1: W 1	500 .0 M	0 GHz VHz		#VE	3W 1.0 M	Hz			#Sweep	Span 1 500 ms (00.0 MHz 1001 pts)	CF Step 10.000000 MHz	
MKR 1	MODE N	TRC 1	SCL f		× 5.186	9 GHz	¥ 5.6	7 dBm	FUNC	TION	UNCTION WIDTH	FUNCTI	IN VALUE	<u>Auto</u> Man	
2 3 4 5 6	_N	1	f		5.150	0 GHz	-37.94	1 dBm						Freq Offset 0 Hz	
7 8 9 10 11															
12 MSG											STATUS				

Peak Detector of conducted Band Edge Delta-Chain D

🎾 Agilent Spectrum A	nalyzer - Swept SA						
Center Freq	5.150000000 GHz	AC SENSE:	INT Avg Type	ALIGNAUTO	03:45:44 PM S TRACE	ep 30, 2011 1 2 3 4 5 6	Frequency
10 dB/div Ref	Input: RF PNO: Fast IFGain:Lov 20.00 dBm	Atten: 30 dB		Mk	r2 5.150 -53.72	0 GHz 2 dBm	Auto Tune
10.0 0.00 -10.0							Center Freq 5.15000000 GHz
-20.0 -30.0 -40.0		2					Start Freq 5.100000000 GHz
-50.0							Stop Freq 5.20000000 GHz
Center 5.15000 #Res BW 1.0 N	IHz #V	/BW 10 Hz		Sweep	Span 10 7.80 s (10	0.0 MHz 001 pts)	CF Step 10.000000 MHz
MAR NODE HE SLE 1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - 10 - 11 - - -	5.190 0 GHz 5.150 0 GHz	-8.30 dBm -53.72 dBm			FUNCTION		Freq Offset 0 Hz
MSG				STATUS			

Product	:	WHDI Tx board
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (31.5Mbps 20MBW)-Channel 48

Chain A

Test Frequency	Measurement Level (20dB BW)	Limit	Result
(MHz)	(MHz)	(MHz)	
5230	5249.60	<5250	PASS

								iwept SA	Analyzer - S	ectrum	lent Sp	M Ag
Frequency	M Sep 30, 2011 E 1 2 3 4 5 6	03:11:14 PI TRAC	ALIGNAUTO e: Log-Pwr	Avg Ty	NSE:INT	AC SE	Hz	00000 G	5.2300	50 s	ter F	Cer
Hz Auto Tun	6 GHz 9 dBm	r2 5.249 -18.9	Mk		dB	Atten: 30	IO: Fast ⊂ ain:Low	iBm	^{Ing}	Ref	3/div	10 d
Center Fre 5.230000000 GH	19.14 dBm		2	rest staboo ve		orolproseptides	- Martoque addre					Log 10.0 0.00 -10.0
Start Fre 5.180000000 GH	-10.14 dBn	war when	hamporter					-		And	an character	-20.0 -30.0 -40.0
Stop Fre 5.280000000 GH												-60.0 -70.0
IHZ Its) CF Ste 10.000000 MH Auto Ma	00.0 MHz 1001 pts) NVALUE	Span 1 500 ms (*	#Sweep	ICTION		1.0 MHz	#VBV	X	0 GHz kHz	.2300 300	ter 5 s BW	Cen #Re
Freq Offs					Bm	1.86 a -18.99 d	5 GHz 5 GHz	5.232				1 3 4 5 6 7 8 9 10
			STATUS									11 12 MSG

Chain B

Test Frequency	Measurement Level (20dB BW)	Limit	Result
(MHz)	(MHz)	(MHz)	
5230	5249.60	<5250	PASS

10 Ag	gilent S	Spect	rum	Analyzer - S	Swept SA			1.2					ία.		
wi Cer	nter	Fre	50 Ω €q	5.2300	00000 GI	Hz	AC	SEI	NSE:INT	Avg	ALIGN. Type: Log-	AUTO -Pwr	03:26:48P	M Sep 30, 2011 E 1 2 3 4 5 6	Frequency
	Input: RF PNO: Fast C Ing: Free Kun IFGain:Low Atten: 30 dB Mkr2 5.249 6 GHz													Auto Tune	
10 c	10 dB/div Ref 20.00 dBm -17.81 dBm														
10.0			_				_ <u>1</u>			_	_				Center Freg
0.00			+			probalise	horas	madeline	myn shim	montopa	-small				5.230000000 GHz
-10.0	-		-								2			-16.54 dBm	
-20.0									2			_			Start Freq
-30.0				AM.	when the whole						Myster	WY YA	month		5.180000000 GHz
-40.0	HAN	pully	MENY	hills	K								12.44	and all and all and all all all all all all all all all al	
-60.0															Stop Freq
-70.0											_				5.280000000 GHz
	L	5.04	200	0.011-									0		
#Re	es B	э.z. W 3	00	kHz		#V	BW 1.	.0 MHz			#Sw	eep	500 ms (1001 pts)	CF Step
MKR	MODE	TRC	SCL		×			Y	FU	NCTION	FUNCTION	WIDTH	FUNCTIO	IN VALUE	10.000000 MHz Auto Man
1	N	1	f		5.217	0 GHz		3.46 dl	3m 3m						
3		-	-		0.240	0 0112		TT.OT G							Freq Offset
5	_								_			_			0 Hz
р 7															
8															
<u>10</u> 11															
12															
MSG											1	STATUS			