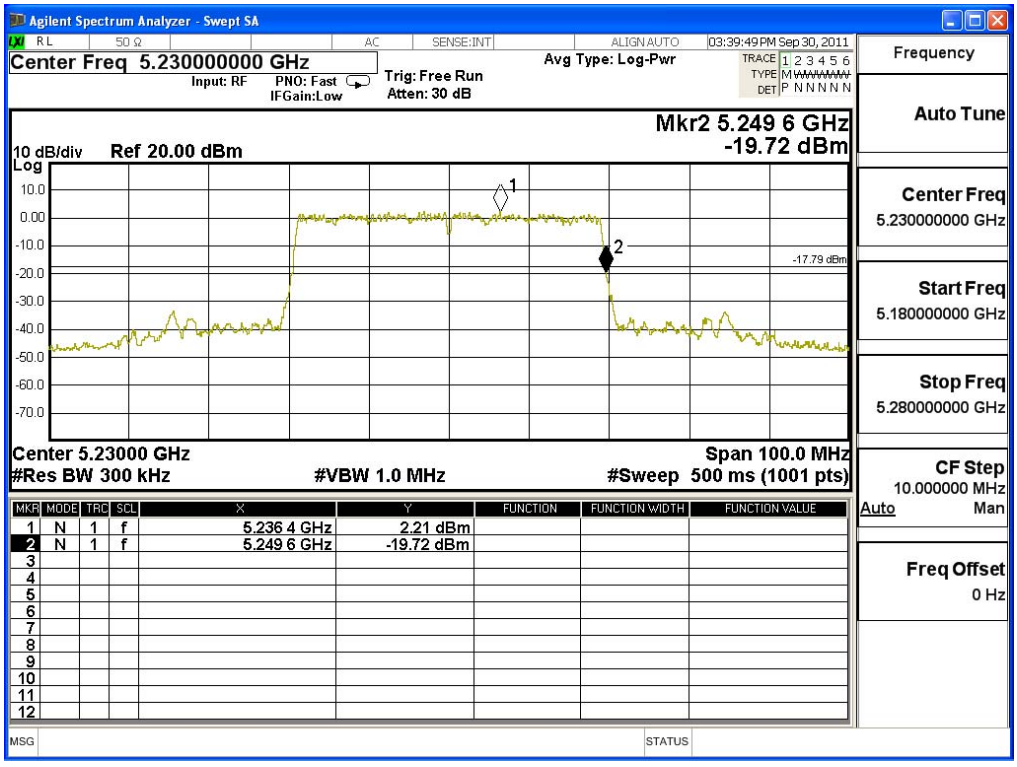
Chain C

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

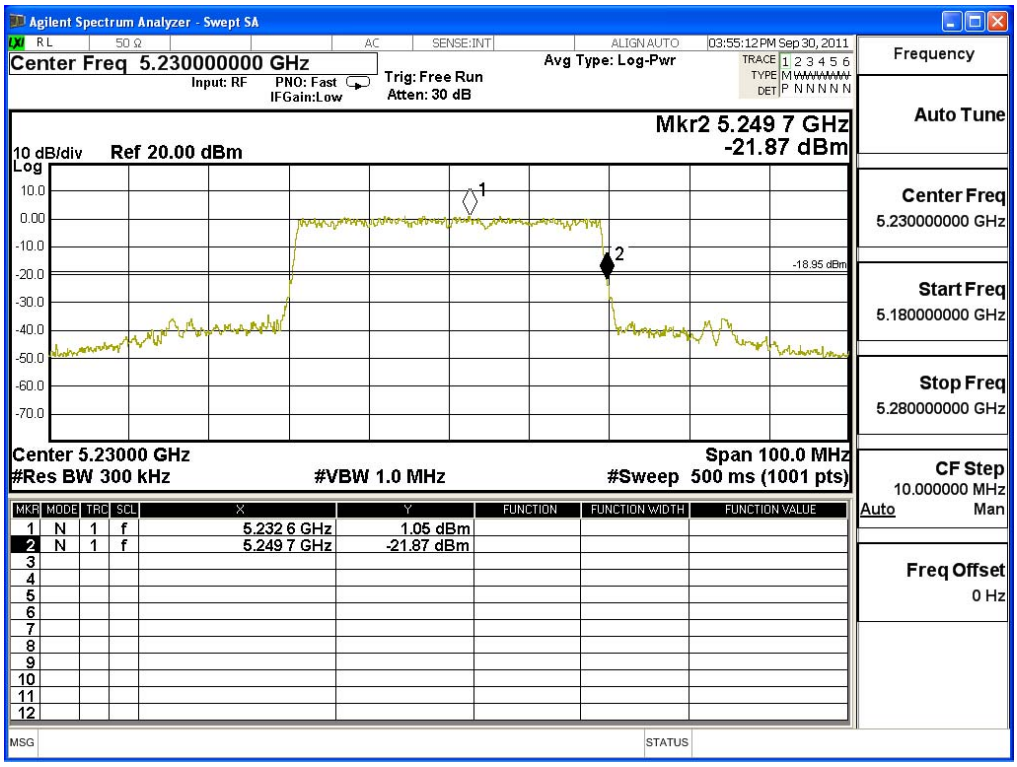
NOTE: Accordance with 15.215 requirement.



Chain D

Test Frequency (MHz)	Measurement Level (20dB BW) (MHz)	Limit (MHz)	Result
5230	5249.70	<5250	PASS

NOTE: Accordance with 15.215 requirement.



8. Frequency Stability

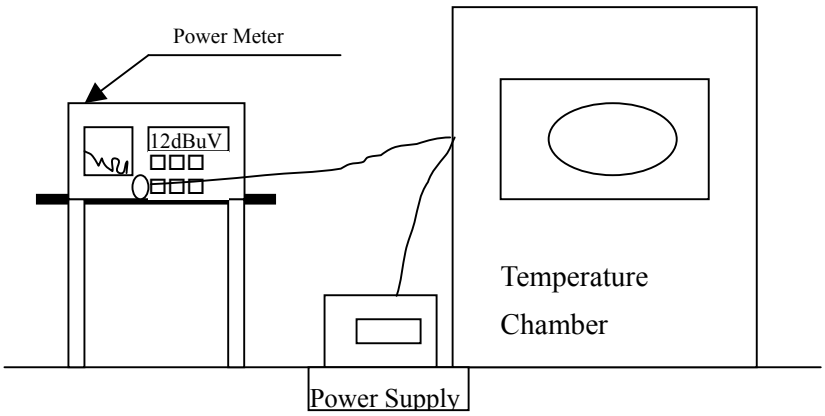
8.1. Test Equipment

	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

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

8.4. Test Procedure

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.

8.5. Uncertainty

± 150 Hz

8.6. Test Result of Frequency Stability

Product : WHDI Tx board
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) °C	Vnom (110)V	36	5180.0000	5180.0064	-0.0064
		38	5190.0000	5190.0089	-0.0089
		44	5220.0000	5220.0095	-0.0095
		46	5230.0000	5230.0085	-0.0085
		48	5240.0000	5240.0099	-0.0099
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmax (126.5)V	36	5180.0000	5180.0058	-0.0058
		38	5190.0000	5190.0099	-0.0099
		44	5220.0000	5220.0095	-0.0095
		46	5230.0000	5230.0085	-0.0085
		48	5240.0000	5240.0098	-0.0098
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmin (93.5)V	36	5180.0000	5180.0054	-0.0054
		38	5190.0000	5190.0101	-0.0101
		44	5220.0000	5220.0098	-0.0098
		46	5230.0000	5230.0083	-0.0083
		48	5240.0000	5240.0093	-0.0093

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (0) °C	Vmax (126.5)V	36	5180.0000	5180.0057	-0.0057
		38	5190.0000	5190.0098	-0.0098
		44	5220.0000	5220.0094	-0.0094
		46	5230.0000	5230.0084	-0.0084
		48	5240.0000	5240.0097	-0.0097
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (0) °C	Vmin (93.5)V	36	5180.0000	5180.0057	-0.0057
		38	5190.0000	5190.0098	-0.0098
		44	5220.0000	5220.0094	-0.0094
		46	5230.0000	5230.0084	-0.0084
		48	5240.0000	5240.0097	-0.0097

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) °C	Vnom (110)V	36	5180.0000	5180.0065	-0.0065
		38	5190.0000	5190.0091	-0.0091
		44	5220.0000	5220.0098	-0.0098
		46	5230.0000	5230.0087	-0.0087
		48	5240.0000	5240.0101	-0.0101
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmax (126.5)V	36	5180.0000	5180.0059	-0.0059
		38	5190.0000	5190.0101	-0.0101
		44	5220.0000	5220.0098	-0.0098
		46	5230.0000	5230.0087	-0.0087
		48	5240.0000	5240.0100	-0.0100
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmin (93.5)V	36	5180.0000	5180.0055	-0.0055
		38	5190.0000	5190.0103	-0.0103
		44	5220.0000	5220.0101	-0.0101
		46	5230.0000	5230.0085	-0.0085
		48	5240.0000	5240.0095	-0.0095

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (0) °C	Vmax (126.5)V	36	5180.0000	5180.0058	-0.0058
		38	5190.0000	5190.0100	-0.0100
		44	5220.0000	5220.0097	-0.0097
		46	5230.0000	5230.0086	-0.0086
		48	5240.0000	5240.0099	-0.0099
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (0) °C	Vmin (93.5)V	36	5180.0000	5180.0058	-0.0058
		38	5190.0000	5190.0100	-0.0100
		44	5220.0000	5220.0097	-0.0097
		46	5230.0000	5230.0086	-0.0086
		48	5240.0000	5240.0099	-0.0099

Chain C

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) °C	Vnom (110)V	36	5180.0000	5180.0066	-0.0066
		38	5190.0000	5190.0092	-0.0092
		44	5220.0000	5220.0096	-0.0096
		46	5230.0000	5230.0089	-0.0089
		48	5240.0000	5240.0097	-0.0097
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmax (126.5)V	36	5180.0000	5180.0055	-0.0055
		38	5190.0000	5190.0103	-0.0103
		44	5220.0000	5220.0100	-0.0100
		46	5230.0000	5230.0082	-0.0082
		48	5240.0000	5240.0103	-0.0103
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmin (93.5)V	36	5180.0000	5180.0057	-0.0057
		38	5190.0000	5190.0104	-0.0104
		44	5220.0000	5220.0097	-0.0097
		46	5230.0000	5230.0086	-0.0086
		48	5240.0000	5240.0097	-0.0097

Chain D

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) °C	Vnom (110)V	36	5180.0000	5180.0065	-0.0065
		38	5190.0000	5190.0088	-0.0088
		44	5220.0000	5220.0094	-0.0094
		46	5230.0000	5230.0084	-0.0084
		48	5240.0000	5240.0100	-0.0100
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmax (126.5)V	36	5180.0000	5180.0060	-0.0060
		38	5190.0000	5190.0100	-0.0100
		44	5220.0000	5220.0097	-0.0097
		46	5230.0000	5230.0085	-0.0085
		48	5240.0000	5240.0101	-0.0101
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (50) °C	Vmin (93.5)V	36	5180.0000	5180.0052	-0.0052
		38	5190.0000	5190.0100	-0.0100
		44	5220.0000	5220.0100	-0.0100
		46	5230.0000	5230.0087	-0.0087
		48	5240.0000	5240.0094	-0.0094

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (0) °C	Vmax (126.5)V	36	5180.0000	5180.0053	-0.0053
		38	5190.0000	5190.0096	-0.0096
		44	5220.0000	5220.0095	-0.0095
		46	5230.0000	5230.0082	-0.0082
		48	5240.0000	5240.0096	-0.0096
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (0) °C	Vmin (93.5)V	36	5180.0000	5180.0056	-0.0056
		38	5190.0000	5190.0099	-0.0099
		44	5220.0000	5220.0094	-0.0094
		46	5230.0000	5230.0085	-0.0085
		48	5240.0000	5240.0096	-0.0096

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs