



11AX20MIMO Ant2 5580



11AX20MIMO Ant1 5700



11AX20MIMO Ant2 5700

CTC Laboratories, Inc.

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TRF No: CTC-TR-062_A2



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11AX20MIMO Ant2 5785



11AX20MIMO Ant1 5825



11AX20MIMO Ant2 5825

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11AX40MIMO_Ant1_5190



11AX40MIMO_Ant2_5190



11AX40MIMO_Ant1_5230

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11AX40MIMO_Ant2_5230



11AX40MIMO_Ant1_5270



11AX40MIMO_Ant2_5270

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11AX40MIMO_Ant1_5310



11AX40MIMO_Ant2_5310



11AX40MIMO_Ant1_5510

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11AX40MIMO_Ant2_5510



11AX40MIMO_Ant1_5550



11AX40MIMO_Ant2_5550

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11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795



11AX40MIMO_Ant2_5795

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11AX80MIMO_Ant1_5210



11AX80MIMO_Ant2_5210



11AX80MIMO_Ant1_5290

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11AX80MIMO_Ant2_5290



11AX80MIMO_Ant1_5530



11AX80MIMO_Ant2_5530

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11AX80MIMO_Ant2_5775



11AX160MIMO_Ant1_5250_UNII-1



11AX160MIMO_Ant2_5250_UNII-1

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11AX160MIMO Ant1 5250 UNII-2A



11AX160MIMO Ant2 5250 UNII-2A



11AX160MIMO Ant1 5570

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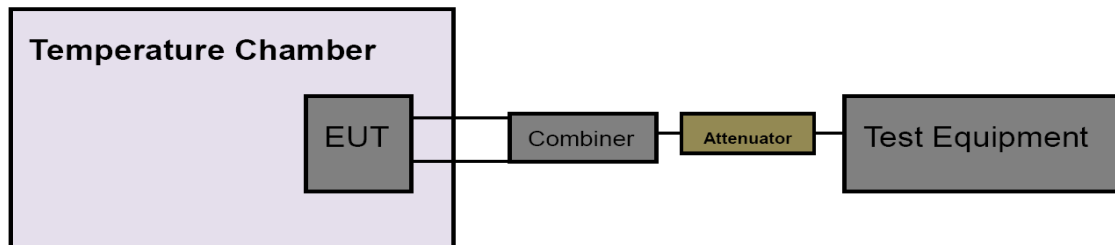
3.7. Frequency Stability

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(g) / RSS-Gen 6.11

Test Item	Limit	Frequency Range (MHz)
Frequency Stability	Specified in the user's manual, the transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)	5150~5250
		5250~5350
		5500~5700
		5725~5850

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 8MHz, VBW=8MHz with peak detector and max hold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 19Vdc percent of the nominal value.
- (6) Extreme temperature is 10°C~35°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Freq(MHz)	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
20M Bandwidth	Ant1	5180	NV	NT	-15000.00	-2.895753	20	PASS
			LV	NT	-7000.00	-1.351351	20	PASS
			HV	NT	-1000.00	-0.193050	20	PASS
	Ant2	5180	NV	NT	24000.00	4.633205	20	PASS
			LV	NT	24000.00	4.633205	20	PASS
			HV	NT	24000.00	4.633205	20	PASS
	Ant1	5200	NV	NT	-7000.00	-1.346154	20	PASS
			LV	NT	2000.00	0.384615	20	PASS
			HV	NT	8000.00	1.538462	20	PASS
	Ant2	5200	NV	NT	28000.00	5.384615	20	PASS
			LV	NT	27000.00	5.192308	20	PASS
			HV	NT	27000.00	5.192308	20	PASS
	Ant1	5240	NV	NT	-34000.00	-6.488550	20	PASS
			LV	NT	-18000.00	-3.435115	20	PASS
			HV	NT	-8000.00	-1.526718	20	PASS
	Ant2	5240	NV	NT	75000.00	14.312977	20	PASS
			LV	NT	71000.00	13.549618	20	PASS
			HV	NT	67000.00	12.786260	20	PASS
	Ant1	5260	NV	NT	-6000.00	-1.140684	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-1000.00	-0.190114	20	PASS
	Ant2	5260	NV	NT	-10000.00	-1.901141	20	PASS
			LV	NT	-11000.00	-2.091255	20	PASS
			HV	NT	-11000.00	-2.091255	20	PASS
	Ant1	5280	NV	NT	-36000.00	-6.818182	20	PASS
			LV	NT	-28000.00	-5.303030	20	PASS
			HV	NT	-24000.00	-4.545455	20	PASS
	Ant2	5280	NV	NT	5000.00	0.946970	20	PASS
			LV	NT	10000.00	1.893939	20	PASS
			HV	NT	14000.00	2.651515	20	PASS
	Ant1	5320	NV	NT	-25000.00	-4.699248	20	PASS
			LV	NT	-15000.00	-2.819549	20	PASS
			HV	NT	-11000.00	-2.067669	20	PASS
	Ant2	5320	NV	NT	-10000.00	-1.879699	20	PASS
			LV	NT	-10000.00	-1.879699	20	PASS
			HV	NT	-11000.00	-2.067669	20	PASS
	Ant1	5500	NV	NT	8000.00	1.454545	20	PASS
			LV	NT	9000.00	1.636364	20	PASS
			HV	NT	9000.00	1.636364	20	PASS
	Ant2	5500	NV	NT	10000.00	1.818182	20	PASS
			LV	NT	10000.00	1.818182	20	PASS
			HV	NT	10000.00	1.818182	20	PASS
	Ant1	5580	NV	NT	7000.00	1.254480	20	PASS
			LV	NT	8000.00	1.433692	20	PASS
			HV	NT	9000.00	1.612903	20	PASS
	Ant2	5580	NV	NT	12000.00	2.150538	20	PASS
			LV	NT	12000.00	2.150538	20	PASS
			HV	NT	13000.00	2.329749	20	PASS
	Ant1	5700	NV	NT	-20000.00	-3.508772	20	PASS
			LV	NT	-11000.00	-1.929825	20	PASS
			HV	NT	-5000.00	-0.877193	20	PASS
	Ant2	5700	NV	NT	14000.00	2.456140	20	PASS
			LV	NT	17000.00	2.982456	20	PASS
			HV	NT	16000.00	2.807018	20	PASS
	Ant1	5745	NV	NT	-18000.00	-3.133159	20	PASS
			LV	NT	-4000.00	-0.696258	20	PASS
			HV	NT	1000.00	0.174064	20	PASS
	Ant2	5745	NV	NT	19000.00	3.307224	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	20000.00	3.481288	20	PASS

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40M Bandwidth	Ant1	5785	NV	NT	-22000.00	-3.802939	20	PASS
			LV	NT	-7000.00	-1.210026	20	PASS
			HV	NT	-1000.00	-0.172861	20	PASS
	Ant2	5785	NV	NT	18000.00	3.111495	20	PASS
			LV	NT	18000.00	3.111495	20	PASS
			HV	NT	18000.00	3.111495	20	PASS
	Ant1	5825	NV	NT	-24000.00	-4.120172	20	PASS
			LV	NT	-12000.00	-2.060086	20	PASS
			HV	NT	-6000.00	-1.030043	20	PASS
	Ant2	5825	NV	NT	7000.00	1.201717	20	PASS
			LV	NT	7000.00	1.201717	20	PASS
			HV	NT	7000.00	1.201717	20	PASS
40M Bandwidth	Ant1	5190	NV	NT	-55000.00	-10.597303	20	PASS
			LV	NT	-54000.00	-10.404624	20	PASS
			HV	NT	-52000.00	-10.019268	20	PASS
	Ant2	5190	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	-43000.00	-8.285164	20	PASS
			HV	NT	-44000.00	-8.477842	20	PASS
	Ant1	5230	NV	NT	-57000.00	-10.898662	20	PASS
			LV	NT	-56000.00	-10.707457	20	PASS
			HV	NT	-54000.00	-10.325048	20	PASS
	Ant2	5230	NV	NT	-38000.00	-7.265774	20	PASS
			LV	NT	-38000.00	-7.265774	20	PASS
			HV	NT	-37000.00	-7.074570	20	PASS
	Ant1	5270	NV	NT	-53000.00	-10.056926	20	PASS
			LV	NT	-51000.00	-9.677419	20	PASS
			HV	NT	-50000.00	-9.487666	20	PASS
	Ant2	5270	NV	NT	-52000.00	-9.867173	20	PASS
			LV	NT	-52000.00	-9.867173	20	PASS
			HV	NT	-52000.00	-9.867173	20	PASS
	Ant1	5310	NV	NT	-47000.00	-8.851224	20	PASS
			LV	NT	-43000.00	-8.097928	20	PASS
			HV	NT	-41000.00	-7.721281	20	PASS
	Ant2	5310	NV	NT	-49000.00	-9.227872	20	PASS
			LV	NT	-50000.00	-9.416196	20	PASS
			HV	NT	-50000.00	-9.416196	20	PASS
	Ant1	5510	NV	NT	-54000.00	-9.800363	20	PASS
			LV	NT	-57000.00	-10.344828	20	PASS
			HV	NT	-58000.00	-10.526316	20	PASS
	Ant2	5510	NV	NT	-47000.00	-8.529946	20	PASS
			LV	NT	-46000.00	-8.348457	20	PASS
			HV	NT	-45000.00	-8.166969	20	PASS
	Ant1	5550	NV	NT	-60000.00	-10.810811	20	PASS
			LV	NT	-58000.00	-10.450450	20	PASS
			HV	NT	-57000.00	-10.270270	20	PASS
	Ant2	5550	NV	NT	-56000.00	-10.090090	20	PASS
			LV	NT	-56000.00	-10.090090	20	PASS
			HV	NT	-56000.00	-10.090090	20	PASS
	Ant1	5670	NV	NT	-62000.00	-10.934744	20	PASS
			LV	NT	-59000.00	-10.405644	20	PASS
			HV	NT	-58000.00	-10.229277	20	PASS
	Ant2	5670	NV	NT	-50000.00	-8.818342	20	PASS
			LV	NT	-50000.00	-8.818342	20	PASS
			HV	NT	-52000.00	-9.171076	20	PASS
	Ant1	5755	NV	NT	-63000.00	-10.947003	20	PASS
			LV	NT	-62000.00	-10.773241	20	PASS
			HV	NT	-62000.00	-10.773241	20	PASS
	Ant2	5755	NV	NT	-61000.00	-10.599479	20	PASS
			LV	NT	-61000.00	-10.599479	20	PASS
			HV	NT	-62000.00	-10.773241	20	PASS
	Ant1	5795	NV	NT	-60000.00	-10.353753	20	PASS
			LV	NT	-57000.00	-9.836066	20	PASS
			HV	NT	-56000.00	-9.663503	20	PASS
	Ant2	5795	NV	NT	-60000.00	-10.353753	20	PASS
			LV	NT	-60000.00	-10.353753	20	PASS

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80M Bandwidth	Ant1	5210	HV	NT	-60000.00	-10.353753	20	PASS
			NV	NT	-39000.00	-7.485605	20	PASS
			LV	NT	-47000.00	-9.021113	20	PASS
			HV	NT	-51000.00	-9.788868	20	PASS
	Ant2	5210	NV	NT	-52000.00	-9.980806	20	PASS
			LV	NT	-52000.00	-9.980806	20	PASS
			HV	NT	-52000.00	-9.980806	20	PASS
			NV	NT	-37000.00	-6.994329	20	PASS
	Ant1	5290	LV	NT	-45000.00	-8.506616	20	PASS
			HV	NT	-50000.00	-9.451796	20	PASS
			NV	NT	-54000.00	-10.207940	20	PASS
			LV	NT	-54000.00	-10.207940	20	PASS
	Ant2	5290	HV	NT	-54000.00	-10.207940	20	PASS
			NV	NT	-60000.00	-10.849910	20	PASS
			LV	NT	-60000.00	-10.849910	20	PASS
			HV	NT	-59000.00	-10.669078	20	PASS
	Ant1	5530	NV	NT	-59000.00	-10.669078	20	PASS
			LV	NT	-58000.00	-10.488246	20	PASS
			HV	NT	-58000.00	-10.488246	20	PASS
			NV	NT	-60000.00	-10.695187	20	PASS
	Ant2	5530	LV	NT	-60000.00	-10.695187	20	PASS
			HV	NT	-60000.00	-10.695187	20	PASS
			NV	NT	-59000.00	-10.516934	20	PASS
			LV	NT	-59000.00	-10.516934	20	PASS
	Ant1	5610	HV	NT	-60000.00	-10.695187	20	PASS
			NV	NT	-54000.00	-9.350649	20	PASS
			LV	NT	-57000.00	-9.870130	20	PASS
			HV	NT	-59000.00	-10.216450	20	PASS
	Ant2	5610	NV	NT	-62000.00	-10.735931	20	PASS
			LV	NT	-62000.00	-10.735931	20	PASS
			HV	NT	-62000.00	-10.735931	20	PASS
			NV	NT	-55000.00	-10.476190	20	PASS
160M Bandwidth	Ant1	5250	LV	NT	-56000.00	-10.666667	20	PASS
			HV	NT	-57000.00	-10.857143	20	PASS
			NV	NT	-54000.00	-10.285714	20	PASS
			LV	NT	-53000.00	-10.095238	20	PASS
	Ant2	5250	HV	NT	-53000.00	-10.095238	20	PASS
			NV	NT	-61000.00	-10.951526	20	PASS
			LV	NT	-60000.00	-10.771993	20	PASS
			HV	NT	-60000.00	-10.771993	20	PASS
	Ant1	5570	NV	NT	-59000.00	-10.592460	20	PASS
			LV	NT	-58000.00	-10.412926	20	PASS
			HV	NT	-58000.00	-10.412926	20	PASS
			NV	NT	-58000.00	-10.412926	20	PASS

Temperature								
Test Mode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20M Bandwidth	Ant1	5180	NV	10	4000.00	0.772201	20	PASS
			NV	20	9000.00	1.737452	20	PASS
			NV	30	13000.00	2.509653	20	PASS
			NV	40	16000.00	3.088803	20	PASS
	Ant2	5180	NV	10	23000.00	4.440154	20	PASS
			NV	20	23000.00	4.440154	20	PASS
			NV	30	23000.00	4.440154	20	PASS
			NV	40	23000.00	4.440154	20	PASS
	Ant1	5200	NV	10	13000.00	2.500000	20	PASS
			NV	20	16000.00	3.076923	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	22000.00	4.230769	20	PASS
	Ant2	5200	NV	10	27000.00	5.192308	20	PASS
			NV	20	28000.00	5.384615	20	PASS
			NV	30	28000.00	5.384615	20	PASS
			NV	40	28000.00	5.384615	20	PASS
	Ant1	5240	NV	10	-1000.00	-0.190840	20	PASS
			NV	20	5000.00	0.954198	20	PASS

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			NV	30	10000.00	1.908397	20	PASS
			NV	40	13000.00	2.480916	20	PASS
	Ant2	5240	NV	10	64000.00	12.213740	20	PASS
			NV	20	61000.00	11.641221	20	PASS
			NV	30	58000.00	11.068702	20	PASS
			NV	40	57000.00	10.877863	20	PASS
	Ant1	5260	NV	10	-2000.00	-0.380228	20	PASS
			NV	20	-3000.00	-0.570342	20	PASS
			NV	30	-4000.00	-0.760456	20	PASS
			NV	40	-5000.00	-0.950570	20	PASS
	Ant2	5260	NV	10	-11000.00	-2.091255	20	PASS
			NV	20	-12000.00	-2.281369	20	PASS
			NV	30	-12000.00	-2.281369	20	PASS
			NV	40	-12000.00	-2.281369	20	PASS
	Ant1	5280	NV	10	-22000.00	-4.166667	20	PASS
			NV	20	-20000.00	-3.787879	20	PASS
			NV	30	-19000.00	-3.598485	20	PASS
			NV	40	-18000.00	-3.409091	20	PASS
	Ant2	5280	NV	10	18000.00	3.409091	20	PASS
			NV	20	21000.00	3.977273	20	PASS
			NV	30	25000.00	4.734848	20	PASS
			NV	40	28000.00	5.303030	20	PASS
	Ant1	5320	NV	10	-10000.00	-1.879699	20	PASS
			NV	20	-8000.00	-1.503759	20	PASS
			NV	30	-8000.00	-1.503759	20	PASS
			NV	40	-7000.00	-1.315789	20	PASS
	Ant2	5320	NV	10	-11000.00	-2.067669	20	PASS
			NV	20	-12000.00	-2.255639	20	PASS
			NV	30	-12000.00	-2.255639	20	PASS
			NV	40	-13000.00	-2.443609	20	PASS
	Ant1	5500	NV	10	9000.00	1.636364	20	PASS
			NV	20	10000.00	1.818182	20	PASS
			NV	30	10000.00	1.818182	20	PASS
			NV	40	10000.00	1.818182	20	PASS
	Ant2	5500	NV	10	10000.00	1.818182	20	PASS
			NV	20	10000.00	1.818182	20	PASS
			NV	30	10000.00	1.818182	20	PASS
			NV	40	10000.00	1.818182	20	PASS
	Ant1	5580	NV	10	10000.00	1.792115	20	PASS
			NV	20	10000.00	1.792115	20	PASS
			NV	30	11000.00	1.971326	20	PASS
			NV	40	11000.00	1.971326	20	PASS
	Ant2	5580	NV	10	13000.00	2.329749	20	PASS
			NV	20	13000.00	2.329749	20	PASS
			NV	30	13000.00	2.329749	20	PASS
			NV	40	13000.00	2.329749	20	PASS
	Ant1	5700	NV	10	0.00	0.000000	20	PASS
			NV	20	2000.00	0.350877	20	PASS
			NV	30	5000.00	0.877193	20	PASS
			NV	40	7000.00	1.228070	20	PASS
	Ant2	5700	NV	10	16000.00	2.807018	20	PASS
			NV	20	15000.00	2.631579	20	PASS
			NV	30	18000.00	3.157895	20	PASS
			NV	40	14000.00	2.456140	20	PASS
	Ant1	5745	NV	10	6000.00	1.044386	20	PASS
			NV	20	8000.00	1.392515	20	PASS
			NV	30	10000.00	1.740644	20	PASS
			NV	40	12000.00	2.088773	20	PASS
	Ant2	5745	NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	20000.00	3.481288	20	PASS
	Ant1	5785	NV	10	4000.00	0.691443	20	PASS
			NV	20	7000.00	1.210026	20	PASS
			NV	30	10000.00	1.728608	20	PASS

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	Ant2	5785	NV	40	12000.00	2.074330	20	PASS
			NV	10	19000.00	3.284356	20	PASS
			NV	20	19000.00	3.284356	20	PASS
			NV	30	19000.00	3.284356	20	PASS
			NV	40	19000.00	3.284356	20	PASS
	Ant1	5825	NV	10	-3000.00	-0.515021	20	PASS
			NV	20	-1000.00	-0.171674	20	PASS
			NV	30	2000.00	0.343348	20	PASS
			NV	40	3000.00	0.515021	20	PASS
	Ant2	5825	NV	10	8000.00	1.373391	20	PASS
			NV	20	8000.00	1.373391	20	PASS
			NV	30	8000.00	1.373391	20	PASS
			NV	40	8000.00	1.373391	20	PASS
40M Bandwidth	Ant1	5190	NV	10	-51000.00	-9.826590	20	PASS
			NV	20	-49000.00	-9.441233	20	PASS
			NV	30	-48000.00	-9.248555	20	PASS
			NV	40	-47000.00	-9.055877	20	PASS
	Ant2	5190	NV	10	-46000.00	-8.863198	20	PASS
			NV	20	-47000.00	-9.055877	20	PASS
			NV	30	-48000.00	-9.248555	20	PASS
			NV	40	-48000.00	-9.248555	20	PASS
	Ant1	5230	NV	10	-52000.00	-9.942639	20	PASS
			NV	20	-50000.00	-9.560229	20	PASS
			NV	30	-48000.00	-9.177820	20	PASS
			NV	40	-47000.00	-8.986616	20	PASS
	Ant2	5230	NV	10	-36000.00	-6.883365	20	PASS
			NV	20	-35000.00	-6.692161	20	PASS
			NV	30	-35000.00	-6.692161	20	PASS
			NV	40	-34000.00	-6.500956	20	PASS
	Ant1	5270	NV	10	-50000.00	-9.487666	20	PASS
			NV	20	-49000.00	-9.297913	20	PASS
			NV	30	-49000.00	-9.297913	20	PASS
			NV	40	-50000.00	-9.487666	20	PASS
	Ant2	5270	NV	10	-52000.00	-9.867173	20	PASS
			NV	20	-49000.00	-9.297913	20	PASS
			NV	30	-47000.00	-8.918406	20	PASS
			NV	40	-46000.00	-8.728653	20	PASS
	Ant1	5310	NV	10	-38000.00	-7.156309	20	PASS
			NV	20	-37000.00	-6.967985	20	PASS
			NV	30	-39000.00	-7.344633	20	PASS
			NV	40	-42000.00	-7.909605	20	PASS
	Ant2	5310	NV	10	-51000.00	-9.604520	20	PASS
			NV	20	-51000.00	-9.604520	20	PASS
			NV	30	-51000.00	-9.604520	20	PASS
			NV	40	-51000.00	-9.604520	20	PASS
	Ant1	5510	NV	10	-59000.00	-10.707804	20	PASS
			NV	20	-59000.00	-10.707804	20	PASS
			NV	30	-58000.00	-10.526316	20	PASS
			NV	40	-57000.00	-10.344828	20	PASS
	Ant2	5510	NV	10	-44000.00	-7.985481	20	PASS
			NV	20	-44000.00	-7.985481	20	PASS
			NV	30	-43000.00	-7.803993	20	PASS
			NV	40	-43000.00	-7.803993	20	PASS
	Ant1	5550	NV	10	-57000.00	-10.270270	20	PASS
			NV	20	-56000.00	-10.090090	20	PASS
			NV	30	-56000.00	-10.090090	20	PASS
			NV	40	-56000.00	-10.090090	20	PASS
	Ant2	5550	NV	10	-57000.00	-10.270270	20	PASS
			NV	20	-57000.00	-10.270270	20	PASS
			NV	30	-57000.00	-10.270270	20	PASS
			NV	40	-57000.00	-10.270270	20	PASS
	Ant1	5670	NV	10	-57000.00	-10.052910	20	PASS
			NV	20	-56000.00	-9.876543	20	PASS
			NV	30	-55000.00	-9.700176	20	PASS
			NV	40	-54000.00	-9.523810	20	PASS

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	Ant2	5670	NV	10	-53000.00	-9.347443	20	PASS
			NV	20	-55000.00	-9.700176	20	PASS
			NV	30	-56000.00	-9.876543	20	PASS
			NV	40	-56000.00	-9.876543	20	PASS
	Ant1	5755	NV	10	-62000.00	-10.773241	20	PASS
			NV	20	-61000.00	-10.599479	20	PASS
			NV	30	-61000.00	-10.599479	20	PASS
			NV	40	-61000.00	-10.599479	20	PASS
	Ant2	5755	NV	10	-61000.00	-10.599479	20	PASS
			NV	20	-60000.00	-10.425717	20	PASS
			NV	30	-59000.00	-10.251955	20	PASS
			NV	40	-58000.00	-10.078193	20	PASS
	Ant1	5795	NV	10	-54000.00	-9.318378	20	PASS
			NV	20	-53000.00	-9.145815	20	PASS
			NV	30	-52000.00	-8.973253	20	PASS
			NV	40	-52000.00	-8.973253	20	PASS
	Ant2	5795	NV	10	-60000.00	-10.353753	20	PASS
			NV	20	-61000.00	-10.526316	20	PASS
			NV	30	-61000.00	-10.526316	20	PASS
			NV	40	-61000.00	-10.526316	20	PASS
80M Bandwidth	Ant1	5210	NV	10	-53000.00	-10.172745	20	PASS
			NV	20	-54000.00	-10.364683	20	PASS
			NV	30	-55000.00	-10.556622	20	PASS
			NV	40	-54000.00	-10.364683	20	PASS
	Ant2	5210	NV	10	-52000.00	-9.980806	20	PASS
			NV	20	-52000.00	-9.980806	20	PASS
			NV	30	-52000.00	-9.980806	20	PASS
			NV	40	-52000.00	-9.980806	20	PASS
	Ant1	5290	NV	10	-53000.00	-10.018904	20	PASS
			NV	20	-55000.00	-10.396975	20	PASS
			NV	30	-56000.00	-10.586011	20	PASS
			NV	40	-56000.00	-10.586011	20	PASS
	Ant2	5290	NV	10	-54000.00	-10.207940	20	PASS
			NV	20	-54000.00	-10.207940	20	PASS
			NV	30	-54000.00	-10.207940	20	PASS
			NV	40	-54000.00	-10.207940	20	PASS
	Ant1	5530	NV	10	-59000.00	-10.669078	20	PASS
			NV	20	-59000.00	-10.669078	20	PASS
			NV	30	-59000.00	-10.669078	20	PASS
			NV	40	-59000.00	-10.669078	20	PASS
	Ant2	5530	NV	10	-58000.00	-10.488246	20	PASS
			NV	20	-58000.00	-10.488246	20	PASS
			NV	30	-58000.00	-10.488246	20	PASS
			NV	40	-58000.00	-10.488246	20	PASS
	Ant1	5610	NV	10	-60000.00	-10.695187	20	PASS
			NV	20	-60000.00	-10.695187	20	PASS
			NV	30	-60000.00	-10.695187	20	PASS
			NV	40	-60000.00	-10.695187	20	PASS
	Ant2	5610	NV	10	-60000.00	-10.695187	20	PASS
			NV	20	-60000.00	-10.695187	20	PASS
			NV	30	-60000.00	-10.695187	20	PASS
			NV	40	-60000.00	-10.695187	20	PASS
	Ant1	5775	NV	10	-60000.00	-10.389610	20	PASS
			NV	20	-61000.00	-10.562771	20	PASS
			NV	30	-62000.00	-10.735931	20	PASS
			NV	40	-62000.00	-10.735931	20	PASS
	Ant2	5775	NV	10	-62000.00	-10.735931	20	PASS
			NV	20	-61000.00	-10.562771	20	PASS
			NV	30	-62000.00	-10.735931	20	PASS
			NV	40	-62000.00	-10.735931	20	PASS
160M Bandwidth	Ant1	5250	NV	10	-57000.00	-10.857143	20	PASS
			NV	20	-57000.00	-10.857143	20	PASS
			NV	30	-56000.00	-10.666667	20	PASS
			NV	40	-56000.00	-10.666667	20	PASS
	Ant2	5250	NV	10	-53000.00	-10.095238	20	PASS

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TRF No: CTC-TR-062_A2



			NV	20	-53000.00	-10.095238	20	PASS
			NV	30	-53000.00	-10.095238	20	PASS
			NV	40	-53000.00	-10.095238	20	PASS
	Ant1	5570	NV	10	-60000.00	-10.771993	20	PASS
			NV	20	-60000.00	-10.771993	20	PASS
			NV	30	-60000.00	-10.771993	20	PASS
	Ant2	5570	NV	40	-60000.00	-10.771993	20	PASS
			NV	10	-59000.00	-10.592460	20	PASS
			NV	20	-58000.00	-10.412926	20	PASS
			NV	30	-58000.00	-10.412926	20	PASS
			NV	40	-58000.00	-10.412926	20	PASS
			NV	10	-59000.00	-10.592460	20	PASS



3.8. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Result

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.



3.9. Dynamic Frequency Selection

Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

**Limit****1. DFS Detection Thresholds**

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.



Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 μsec is selected, the number of pulses

$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\}$$

would be Round up $\{17.2\} = \text{Round up } \{17.2\} = 18$.

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658

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Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

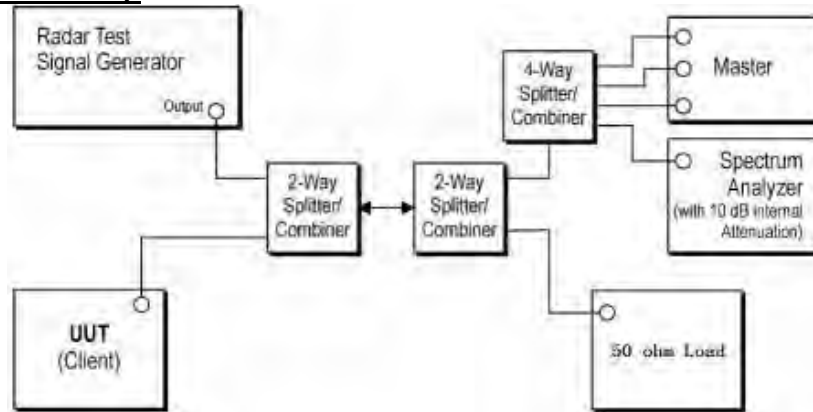
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

Calibration of Radar Waveform

Radar Waveform Calibration Procedure

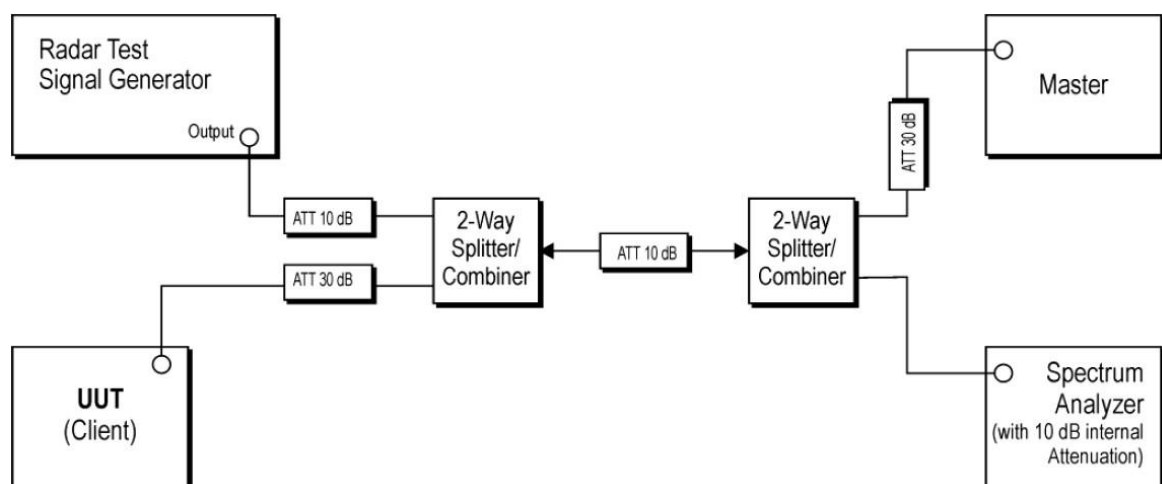
- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master.
- 2) The interference Radar Detection Threshold Level is $-62\text{dBm} + 3.47\text{dBi} + 1\text{dB} = -57.53\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB .
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 3.47\text{dBi} + 1\text{dB} = -57.53\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup



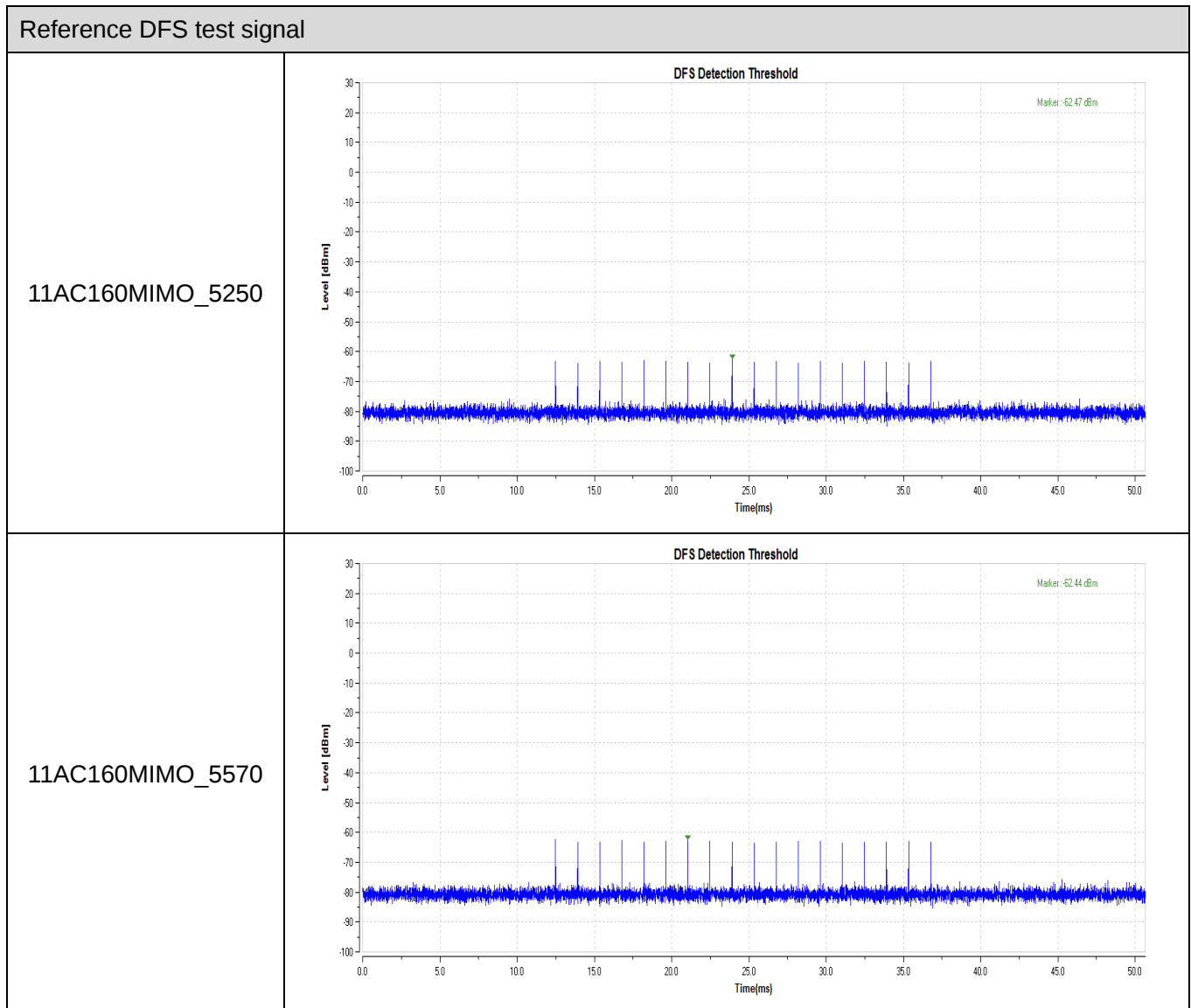
Test Configuration

Setup for Client with injection at the Master





Radar Waveform Calibration Result



Test Procedure

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move

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Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type

7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Test Mode

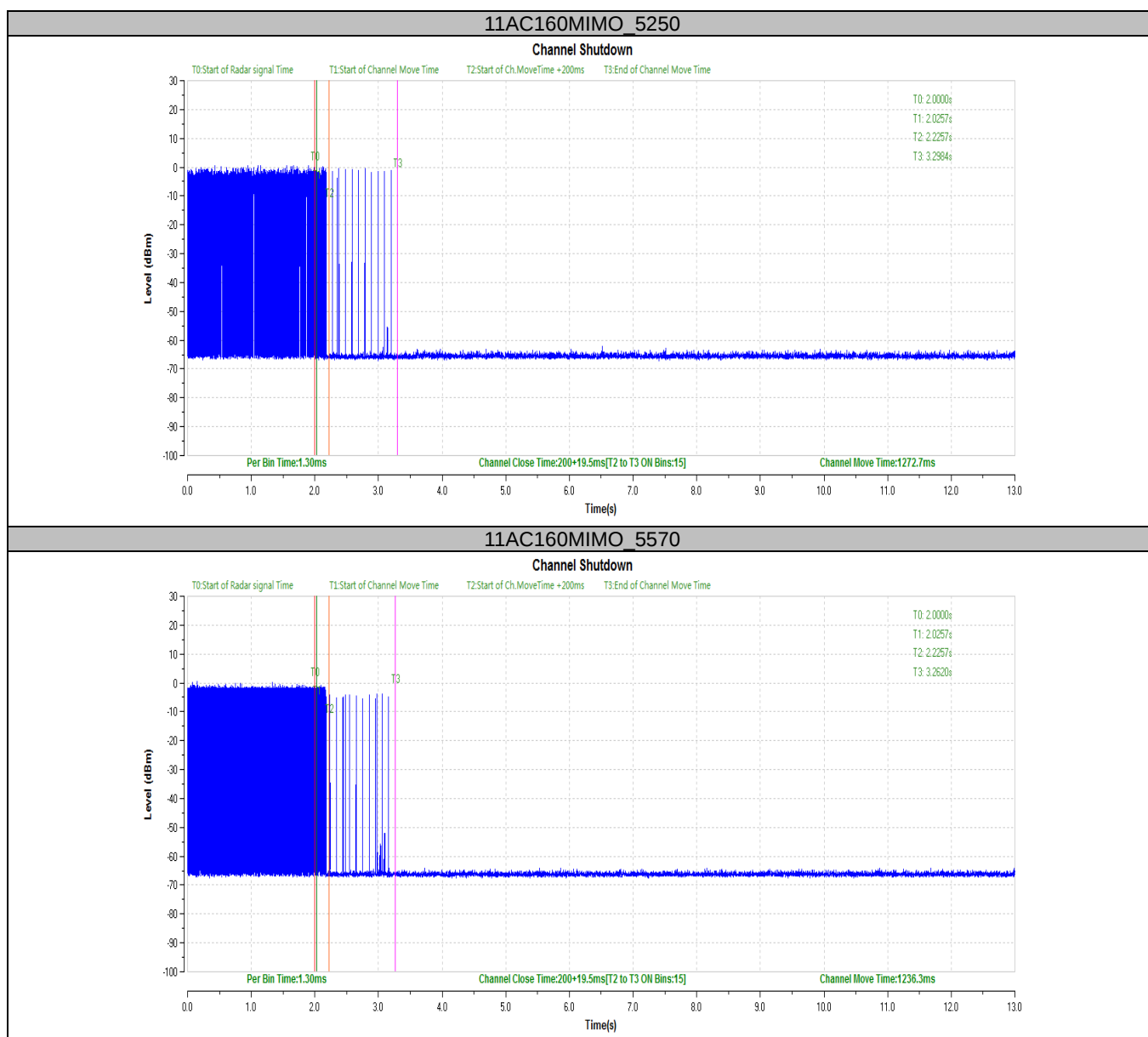
Please refer to the clause 2.4.

**Test Result**☒ **Passed**☐ **Not Applicable**

The product in this report belongs to Client Without Radar Detection.

Test Mode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC160MIMO	5250	200+19.5	200+60	1272.7	10000	PASS
	5570	200+19.5	200+60	1236.3	10000	PASS

Test Mode	Frequency[MHz]	Result	Limit[s]	Verdict
11AC160MIMO	5250	see test graph	≥1800	PASS
	5570	see test graph	≥1800	PASS



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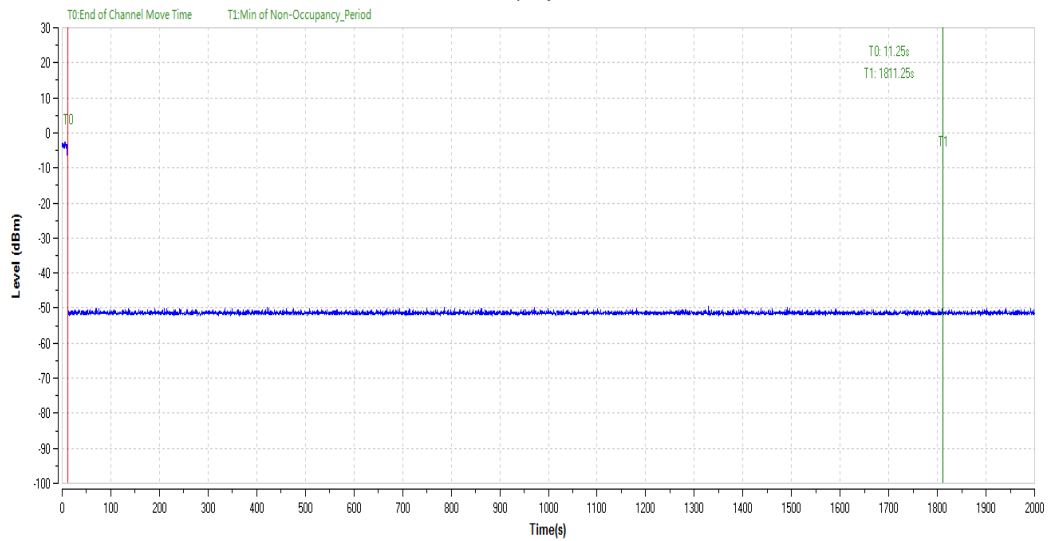
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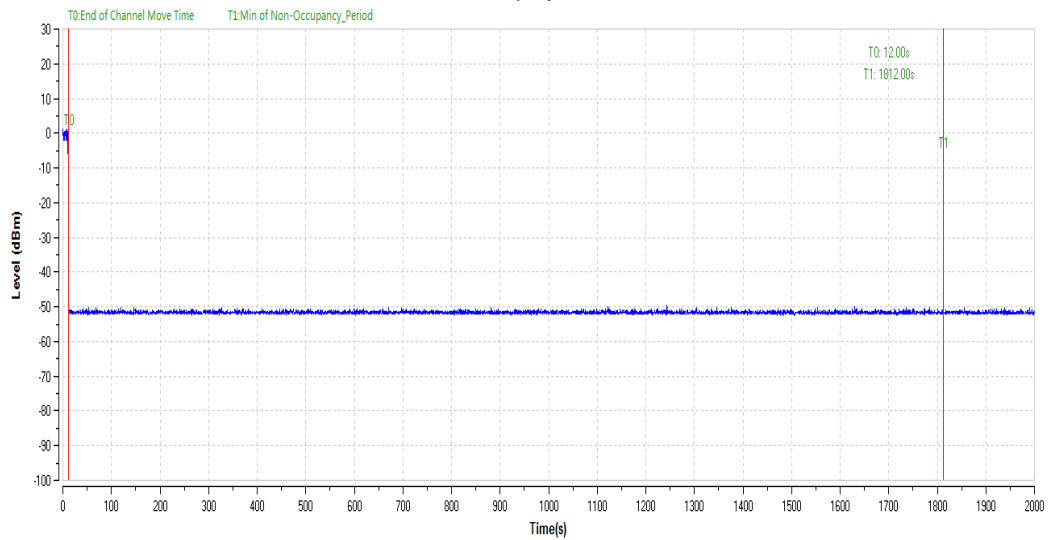
11AC160MIMO 5250

Non-Occupancy Period



11AC160MIMO 5570

Non-Occupancy Period



*****THE END OF REPORT*****

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