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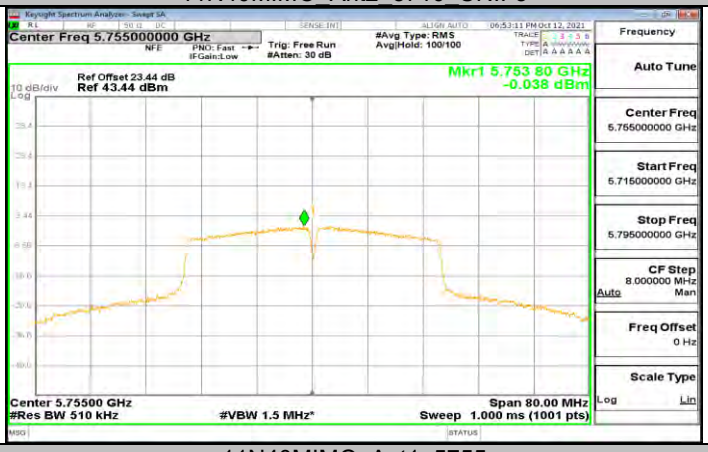
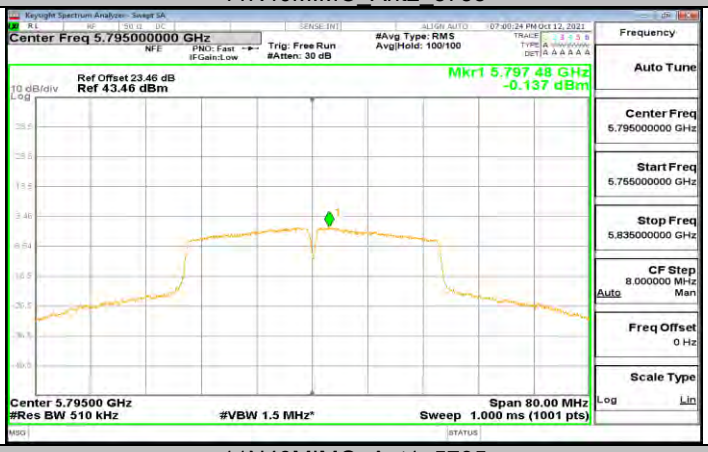
11N40MIMO_Ant2_5710_UNII-3



11N40MIMO_Ant1_5755

11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795

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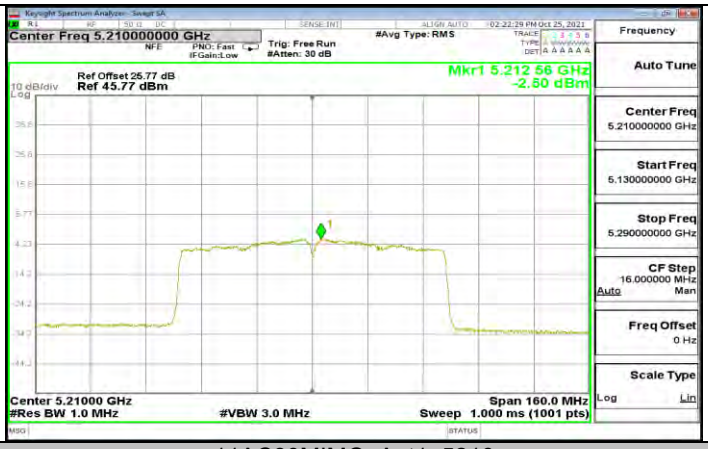

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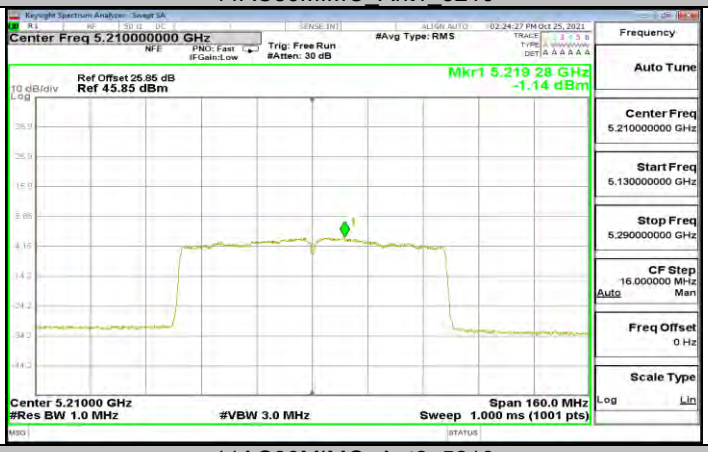

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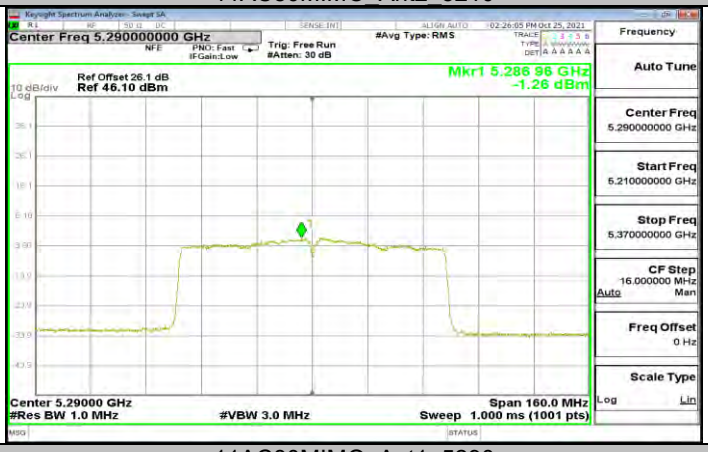

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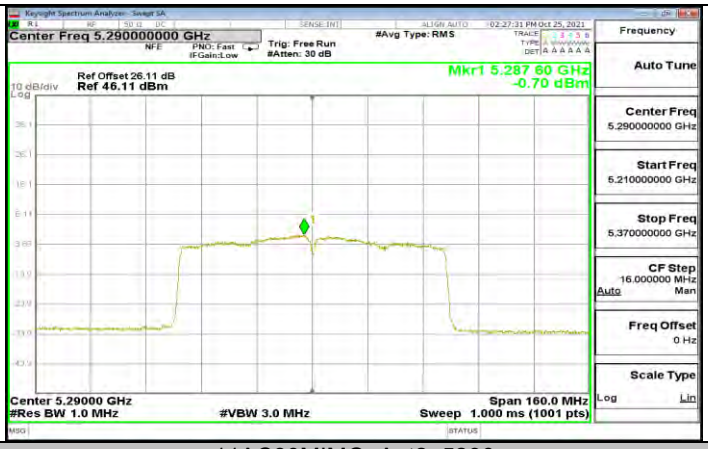
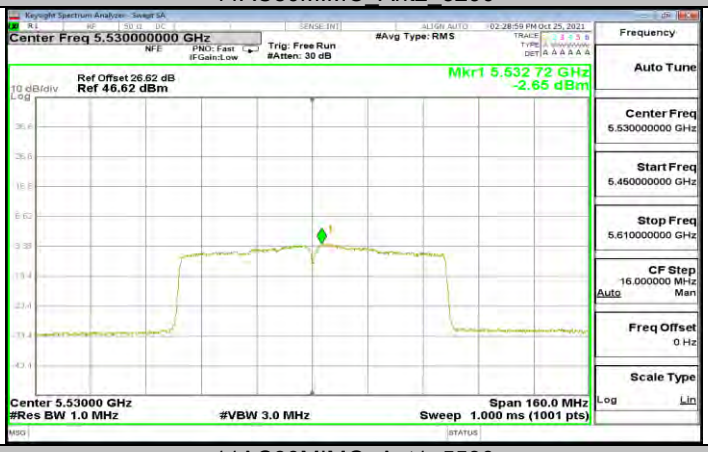
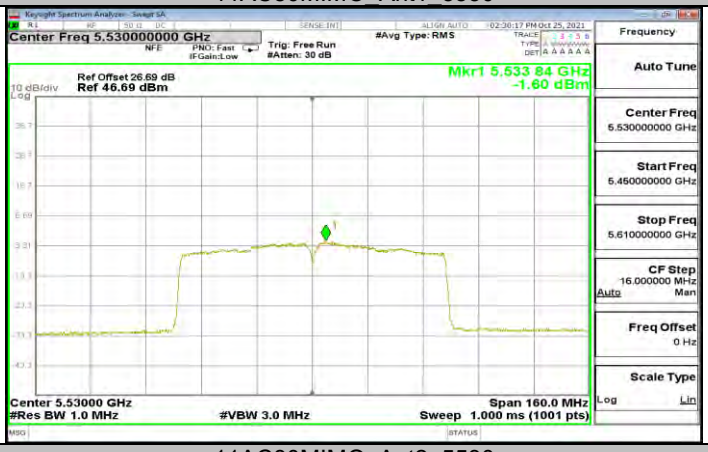


11AC80MIMO_Ant2_5290

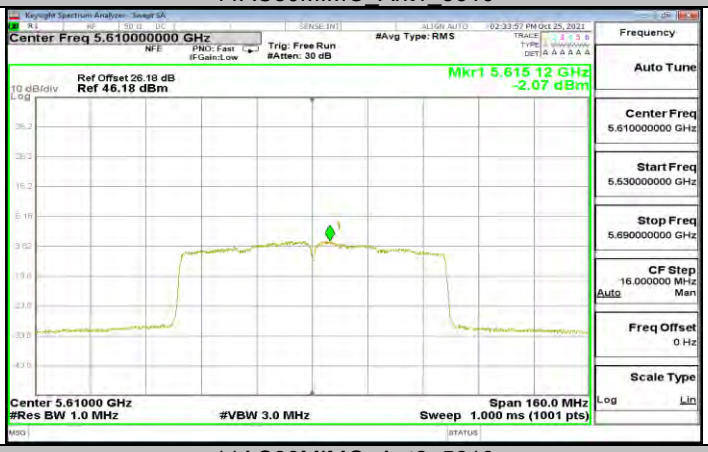


11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530

11AC80MIMO_Ant1_5610



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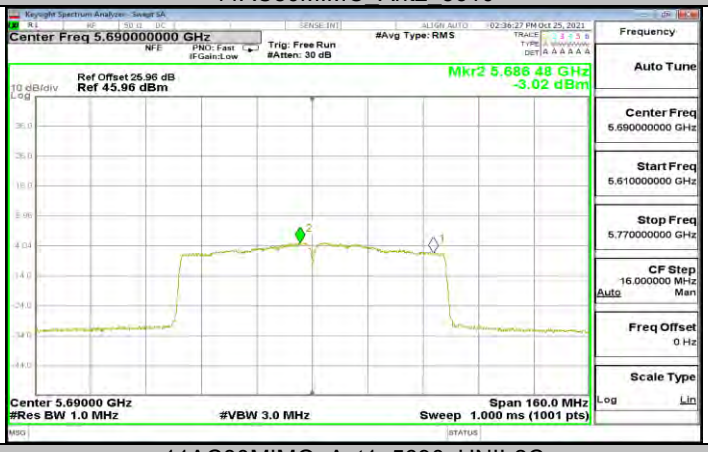
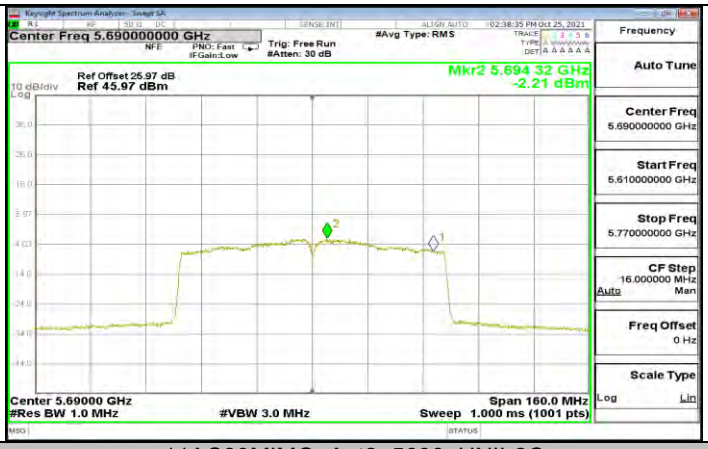
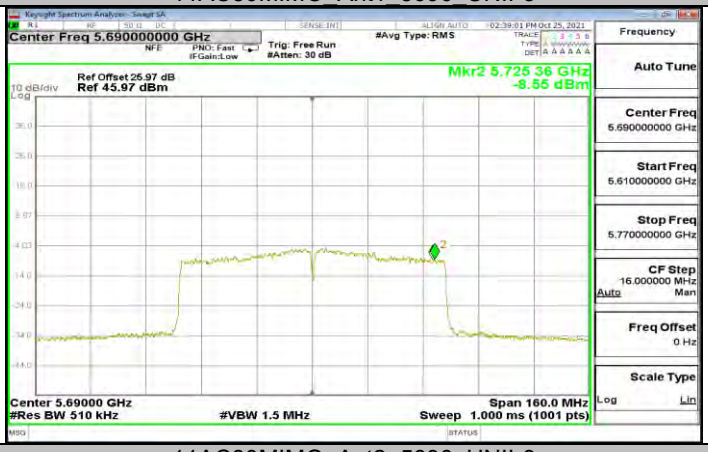


11AC80MIMO_Ant1_5690_UNII-2C



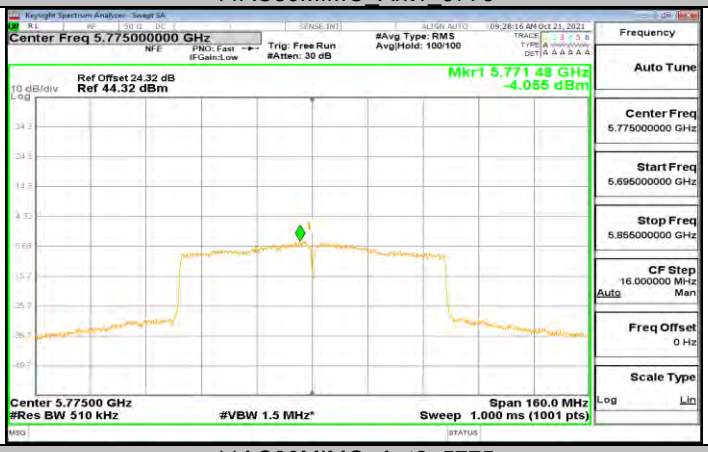
11AC80MIMO_Ant2_5690_UNII-2C

11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3

11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775

12.6. Appendix D: Duty Cycle

12.6.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A 20	1.39	1.43	0.9720	97.20	0.12	0.72	1
11N20MIMO	1.30	1.35	0.9630	96.30	0.16	0.77	1
11N40MIMO	0.65	0.69	0.9420	94.20	0.26	1.54	2
11AC80MIMO	0.188	0.231	0.8138	81.39	0.89	5.32	6

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

12.6.2. Test Graphs

11A_Ant1_5180

11N20MIMO_Ant1_5180

11N40MIMO_Ant1_5190

11AC80MIMO_Ant1_5210

12.7. Appendix E: Frequency Stability
Test Result

Frequency Error vs. Voltage									
802.11a 20: 5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5199.9809	-3.68	5199.9780	-4.24	5200.0168	3.23	5199.9778	-4.28
TN	VN	5199.9893	-2.05	5200.0061	1.18	5200.0000	0.00	5200.0208	3.99
TN	VH	5200.0096	1.85	5199.9896	-2.00	5199.9817	-3.52	5200.0097	1.87
Frequency Error vs. Temperature									
802.11a 20: 5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
70	VN	5199.9897	-1.98	5199.9878	-2.35	5199.9933	-1.29	5200.0062	1.20
60	VN	5200.0189	3.64	5200.0115	2.22	5199.9813	-3.60	5200.0168	3.23
40	VN	5199.9997	-0.05	5199.9887	-2.18	5199.9873	-2.44	5199.9822	-3.43
30	VN	5199.9852	-2.85	5200.0215	4.14	5200.0111	2.13	5199.9831	-3.26
20	VN	5200.0148	2.85	5200.0029	0.55	5199.9868	-2.54	5199.9804	-3.77
10	VN	5200.0055	1.06	5199.9916	-1.62	5200.0211	4.06	5200.0135	2.59
0	VN	5199.9937	-1.22	5200.0101	1.95	5200.0120	2.30	5199.9922	-1.50

Frequency Error vs. Voltage									
802.11a 20: 5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.0045	0.77	5824.9824	-3.02	5824.9758	-4.16	5825.0005	0.09
TN	VN	5824.9811	-3.25	5825.0213	3.66	5825.0072	1.24	5824.9830	-2.91
TN	VH	5824.9826	-2.99	5824.9815	-3.18	5824.9989	-0.19	5824.9856	-2.47
Frequency Error vs. Temperature									
802.11a 20: 5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
70	VN	5825.0214	3.67	5825.0128	2.19	5825.0182	3.13	5825.0161	2.77
60	VN	5825.0168	2.89	5825.0119	2.04	5824.9927	-1.26	5825.0207	3.56
40	VN	5824.9901	-1.70	5825.0146	2.51	5825.0050	0.86	5824.9921	-1.36
30	VN	5824.9969	-0.54	5824.9774	-3.88	5824.9815	-3.18	5825.0244	4.20
20	VN	5825.0214	3.67	5824.9898	-1.76	5824.9777	-3.82	5824.9976	-0.41
10	VN	5825.0188	3.22	5825.0135	2.31	5824.9880	-2.06	5825.0170	2.91
0	VN	5824.9838	-2.78	5824.9777	-3.82	5824.9850	-2.57	5825.0063	1.09

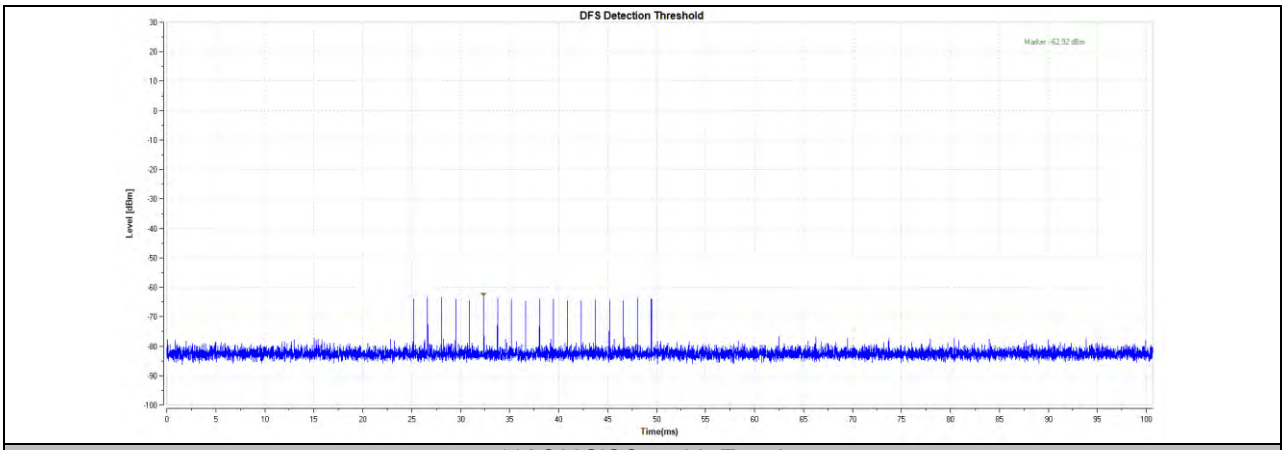
Note: All antennas and test modes have been tested, only the worst data record in the report.

12.8. Appendix F: Dynamic Frequency Selection

Radar Signal Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.92	-59.00	PASS

Radar Signal Test Graphs

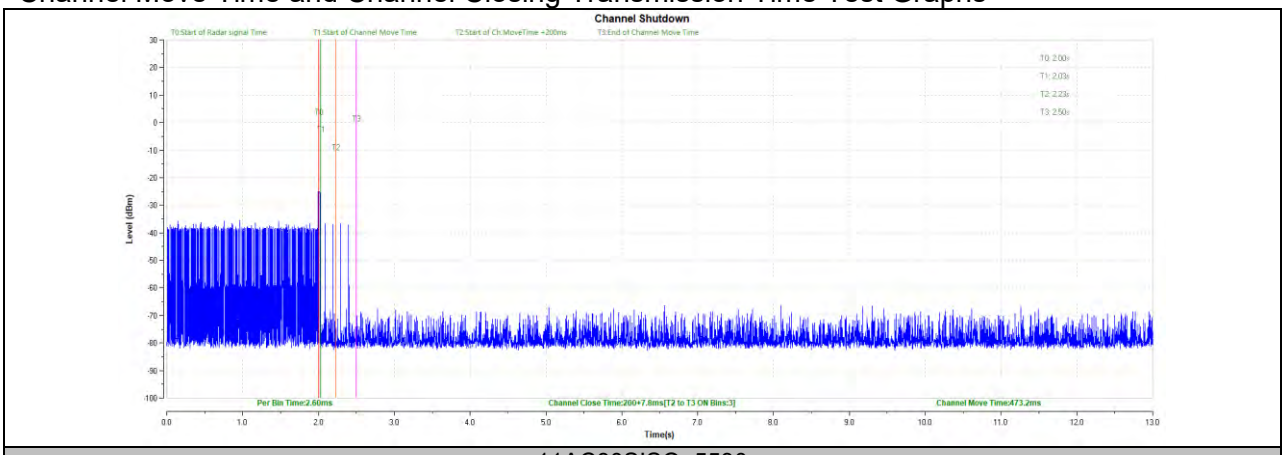


11AC80SISO_5530_Type0

Channel Move Time and Channel Closing Transmission Time Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+7.8	200+60	473.2	10000	PASS

Channel Move Time and Channel Closing Transmission Time Test Graphs

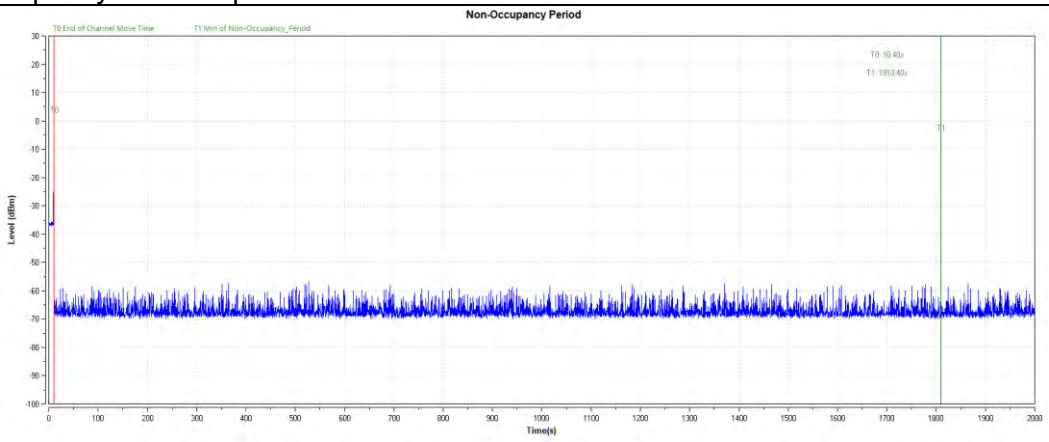


11AC80SISO_5530

Non-Occupancy Period Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80SISO	5530	see test graph	≥1800	PASS

Non-Occupancy Test Graphs



11AC80SISO_5530

END OF REPORT