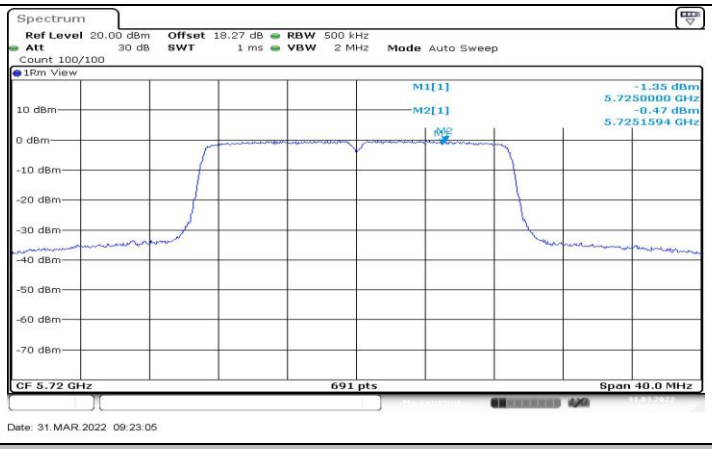


11N20MIMO_Ant1_5720_UNII-3

11N20MIMO_Ant2_5720_UNII-3

11N20MIMO_Ant1_5745

11N20MIMO_Ant2_5745

11N20MIMO_Ant1_5785

11N20MIMO_Ant2_5785

11N20MIMO_Ant1_5825

11N20MIMO_Ant2_5825

11N40MIMO_Ant1_5190

11N40MIMO_Ant2_5190

11N40MIMO_Ant1_5230

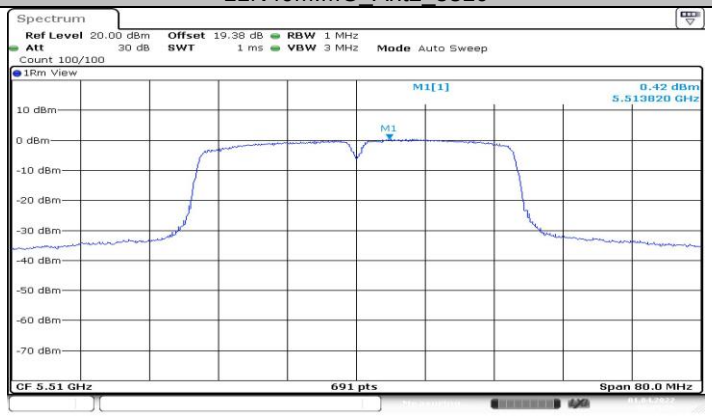
11N40MIMO_Ant2_5230

11N40MIMO_Ant1_5270

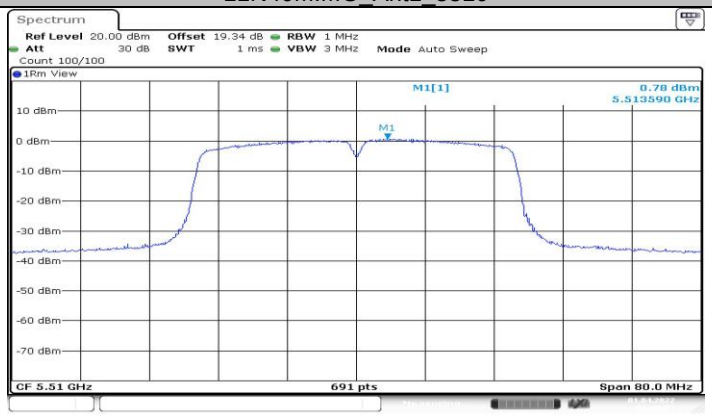
11N40MIMO_Ant2_5270

11N40MIMO_Ant1_5310

11N40MIMO_Ant2_5310

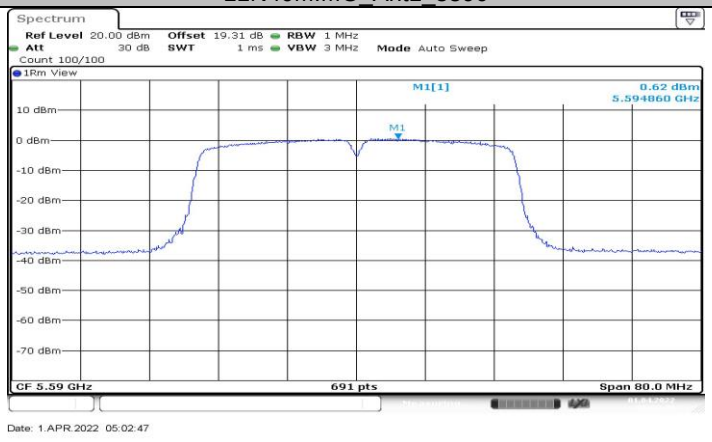


11N40MIMO_Ant1_5510



11N40MIMO_Ant2_5510

11N40MIMO_Ant1_5590



11N40MIMO_Ant2_5590

11N40MIMO_Ant1_5670

11N40MIMO_Ant2_5670

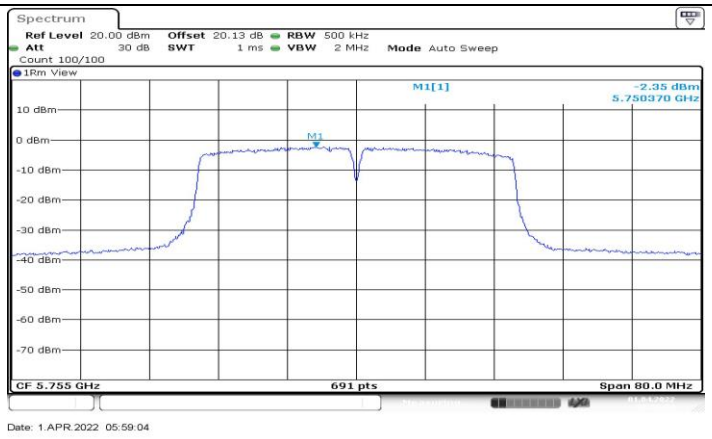
11N40MIMO_Ant1_5710_UNII-2C

11N40MIMO_Ant2_5710_UNII-2C

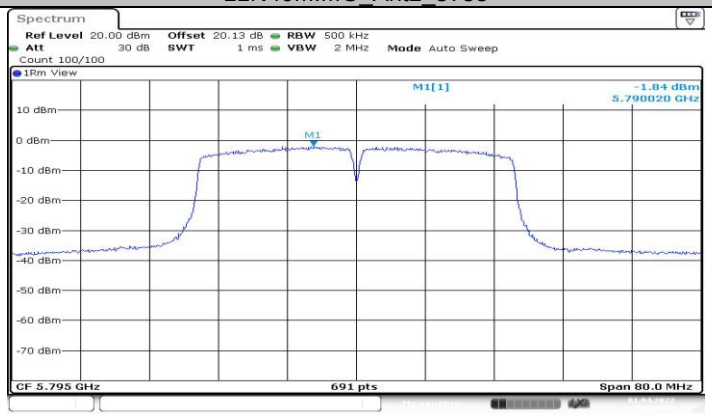
11N40MIMO_Ant1_5710_UNII-3

11N40MIMO_Ant2_5710_UNII-3

11N40MIMO_Ant1_5755



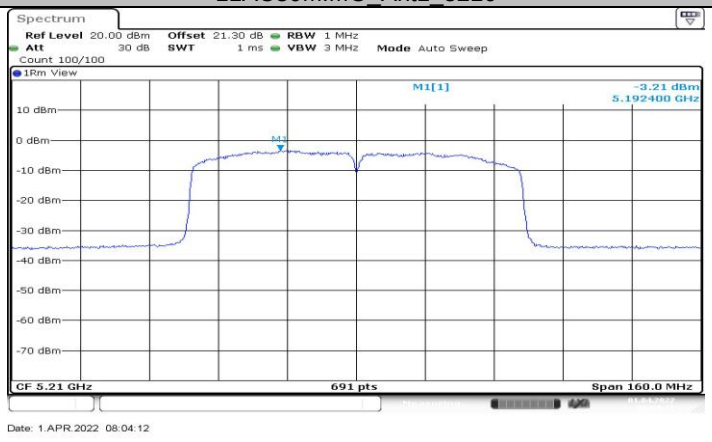
11N40MIMO_Ant2_5755



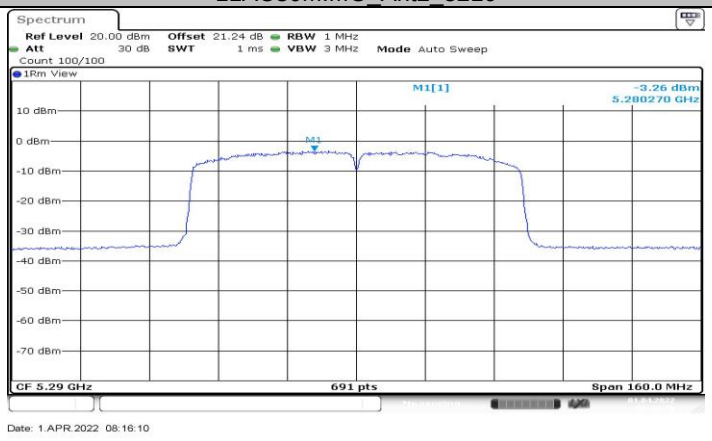
11N40MIMO_Ant1_5795

11N40MIMO_Ant2_5795

11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

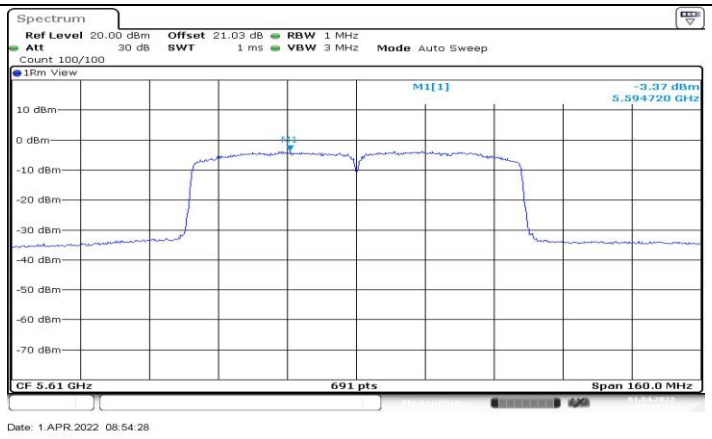


11AC80MIMO_Ant1_5290

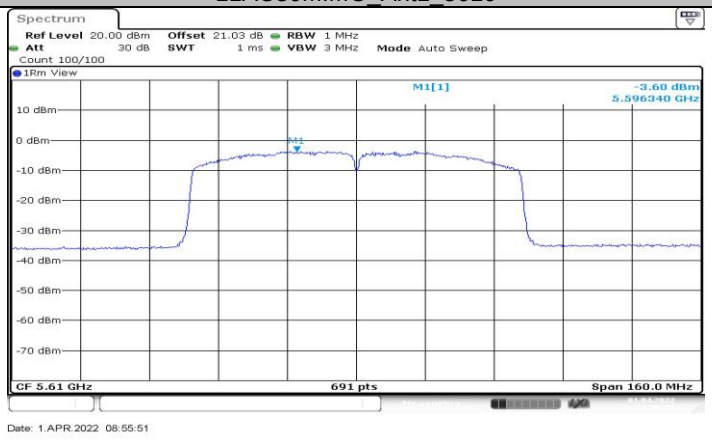
11AC80MIMO_Ant2_5290

11AC80MIMO_Ant1_5530

11AC80MIMO_Ant2_5530



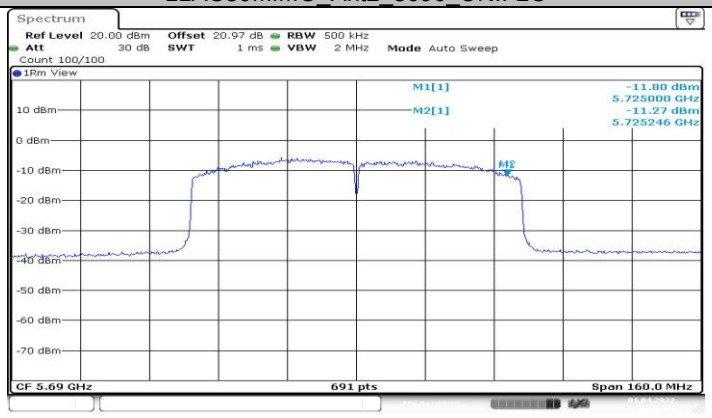
11AC80MIMO_Ant1_5610



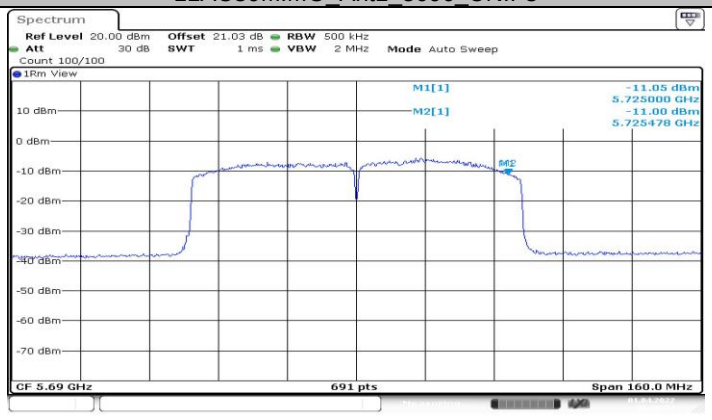
11AC80MIMO_Ant2_5610

11AC80MIMO_Ant1_5690_UNII-2C

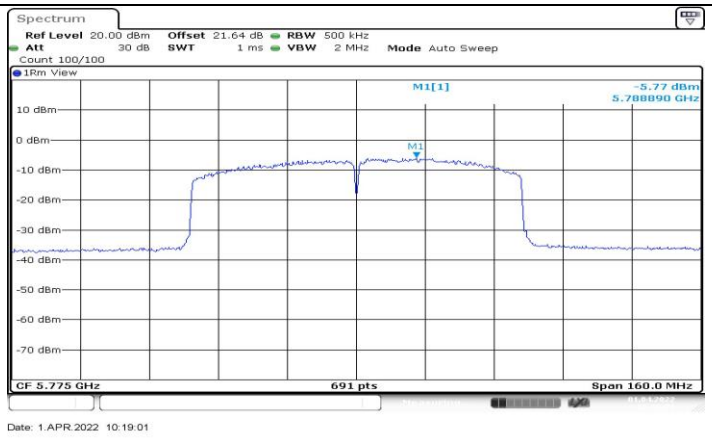
11AC80MIMO_Ant2_5690_UNII-2C



11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3



11AC80MIMO_Ant1_5775

11AC80MIMO_Ant2_5775

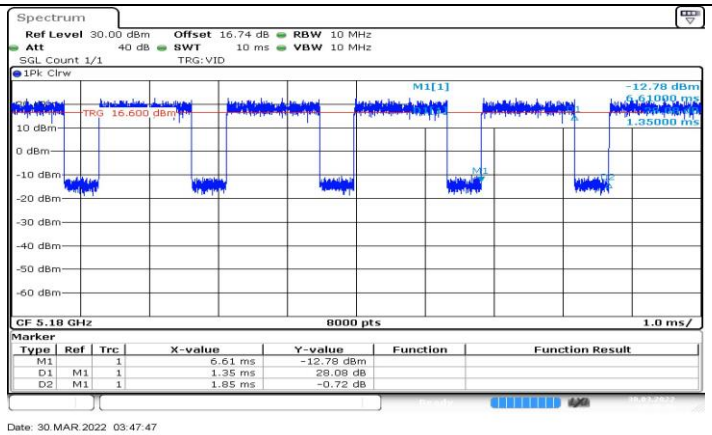
12.6. Appendix D: Duty Cycle

12.6.1. Test Result

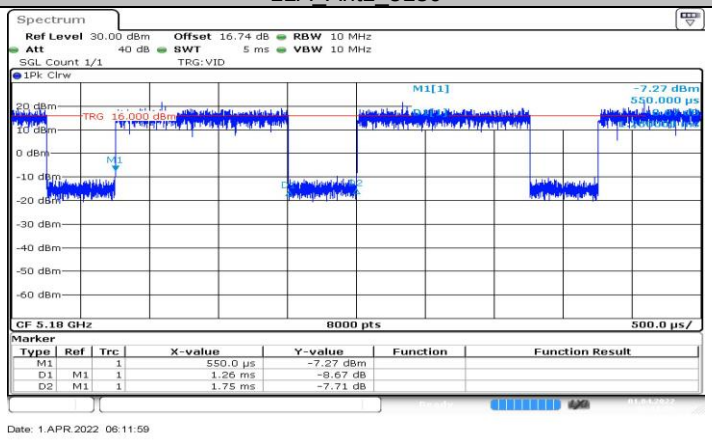
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.35	1.85	0.7297	72.97	1.37	0.74	1
11N20MIMO	1.26	1.75	0.7200	72.00	1.43	0.79	1
11N40MIMO	0.62	1.12	0.5536	55.36	2.57	1.61	2
11AC80MIMO	0.31	0.80	0.3875	38.75	4.12	3.23	4

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.

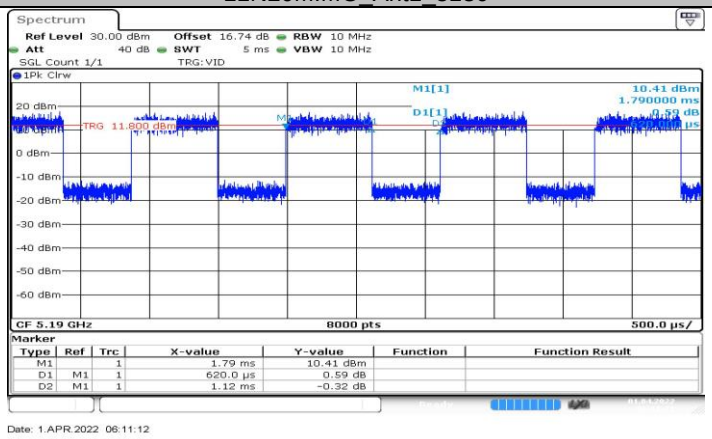
12.6.2. Test Graphs



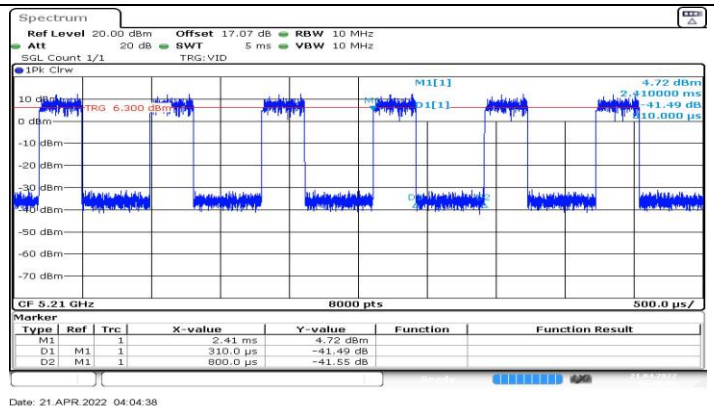
11A_Ant1_5180



11N20MIMO_Ant1_5180



11N40MIMO_Ant1_5190



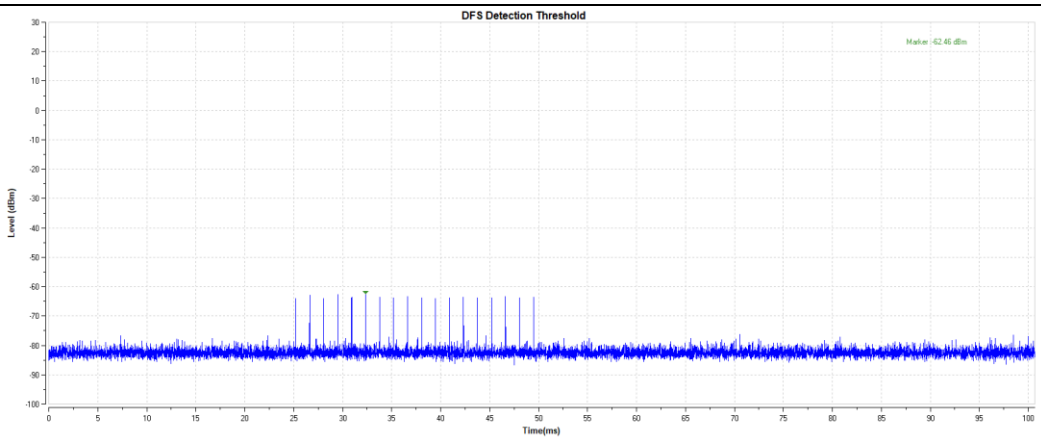
11AC80MIMO_Ant1_5210

12.7. Appendix E: DFS Detection Thresholds

12.7.1. Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.46	-59.00	PASS

12.7.2. Test Graphs



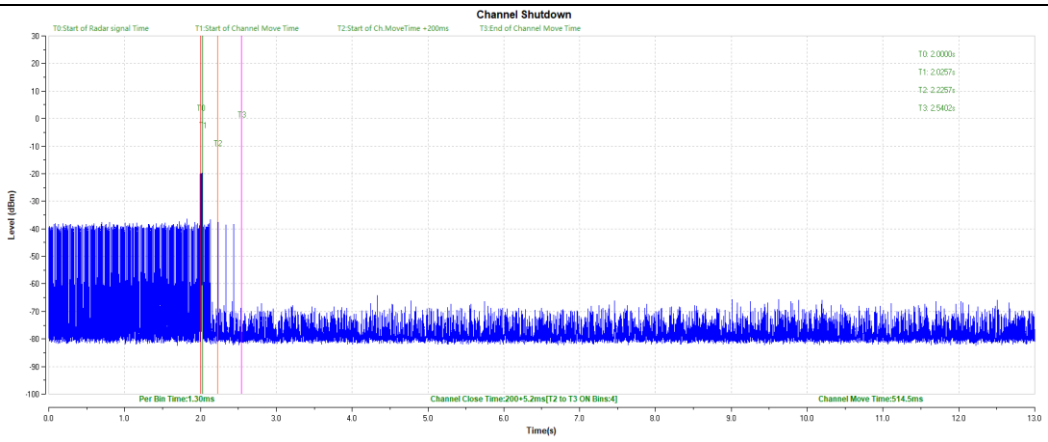
11AC80SISO_5530_Type0

12.8. Appendix F: Channel Move Time and Channel Closing Transmission Time

12.8.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5520	200+5.2	200+60	514.5	10000	PASS

12.8.2. Test Graphs



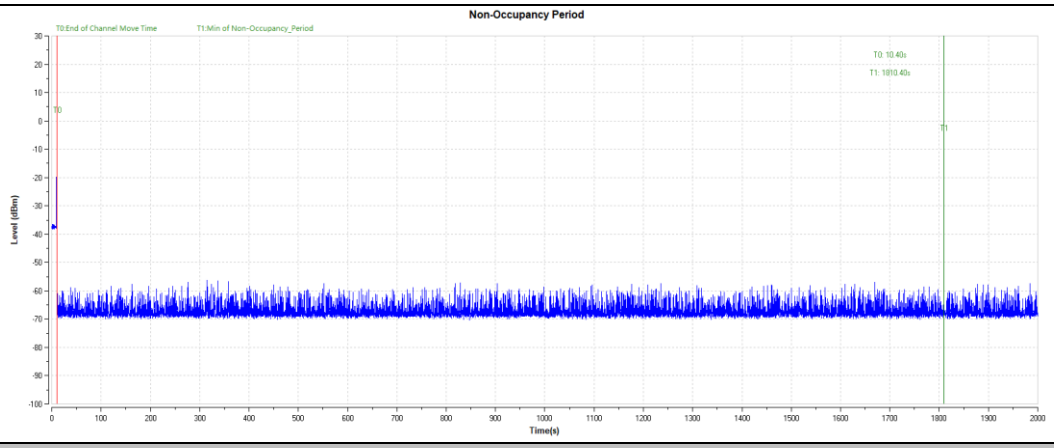
11AC80SISO_5520

12.9. Appendix G: Non-Occupancy Period

Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80SISO	5520	see test graph	≥1800	PASS

12.9.1. Test Graphs



11AC80SISO_5520

12.10. Appendix H: Frequency Stability

12.10.1. Test Result

Frequency Error vs. Voltage									
802.11a20:5200MHz									
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	5199.9854	-2.81	5200.0230	4.41	5199.9795	-3.94	5200.0070	1.34
TN	VN	5200.0203	3.90	5200.0023	0.43	5200.0149	2.86	5199.9756	-4.70
TN	VH	5199.9977	-0.43	5199.9933	-1.28	5199.9805	-3.74	5199.9879	-2.33
Frequency Error vs. Temperature									
802.11a: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	5200.0014	0.27	5200.0145	2.79	5200.0066	1.26	5200.0162	3.11
60	VN	5200.0095	1.83	5200.0143	2.75	5200.0185	3.55	5200.0153	2.94
50	VN	5200.0115	2.22	5199.9926	-1.41	5200.0047	0.91	5200.0064	1.23
40	VN	5200.0060	1.15	5199.9902	-1.88	5200.0178	3.43	5200.0182	3.51
30	VN	5199.9824	-3.39	5199.9824	-3.38	5199.9822	-3.42	5199.9959	-0.78
20	VN	5199.9845	-2.97	5200.0054	1.05	5199.9802	-3.81	5199.9860	-2.69
10	VN	5200.0088	1.69	5199.9919	-1.57	5199.9991	-0.16	5200.0249	4.78
0	VN	5200.0215	4.13	5200.0050	0.96	5200.0182	3.50	5200.0092	1.76

Note:
1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

Frequency Error vs. Voltage									
802.11a: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	5825.0114	1.96	5824.9774	-3.88	5825.0148	2.54	5825.0076	1.30
TN	VN	5824.9946	-0.92	5824.9843	-2.69	5824.9815	-3.18	5824.9994	-0.10
TN	VH	5824.9976	-0.41	5824.9754	-4.21	5824.9855	-2.48	5825.0102	1.75
Frequency Error vs. Temperature									
802.11a: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	5824.9785	-3.69	5824.9759	-4.14	5824.9774	-3.88	5825.0151	2.59
60	VN	5824.9973	-0.46	5824.9858	-2.44	5825.0243	4.17	5825.0175	3.00
50	VN	5825.0136	2.33	5825.0138	2.36	5825.0053	0.91	5825.0079	1.35
40	VN	5825.0053	0.92	5824.9751	-4.27	5825.0181	3.10	5824.9979	-0.37
30	VN	5824.9975	-0.43	5825.0131	2.25	5825.0099	1.70	5825.0183	3.14
20	VN	5825.0115	1.98	5825.0195	3.35	5824.9918	-1.40	5825.0055	0.95
10	VN	5824.9897	-1.76	5824.9900	-1.71	5825.0211	3.61	5825.0036	0.61
0	VN	5824.9984	-0.27	5825.0091	1.57	5825.0137	2.35	5825.0068	1.17

Note:
1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

END OF REPORT