





## 11.6. Appendix D: Duty Cycle

### 11.6.1. Test Result

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	1.44	0.9653	96.53	0.15	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	0.18	0.23	0.7826	78.26	1.06	5.56	6

Note:

Duty Cycle Correction Factor= $10\log(1/x)$ .

Where: x is Duty Cycle (Linear)

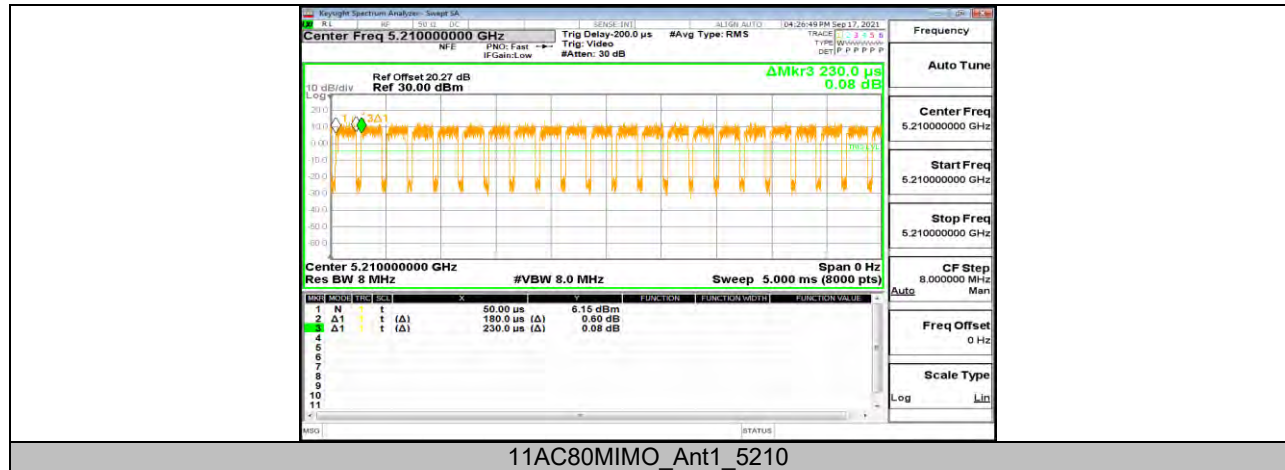
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



## 11.6.2. Test Graphs







## 11.7. Appendix E: Frequency Stability

### 11.7.1. 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	5200.04033	7.76	5200.03942	7.58	5200.04249	8.17	5200.04777	9.19
TN	VN	5200.03657	7.03	5200.03033	5.83	5200.03758	7.23	5200.03369	6.48
TN	VH	5200.03641	7.00	5200.04471	8.60	5200.04241	8.16	5200.04262	8.20
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	5200.04289	8.25	5200.04233	8.14	5200.04841	9.31	5200.04922	9.47
60	VN	5200.03882	7.47	5200.04526	8.70	5200.04737	9.11	5200.04781	9.19
50	VN	5200.03772	7.25	5200.03844	7.39	5200.04322	8.31	5200.04432	8.52
40	VN	5200.03233	6.22	5200.03539	6.81	5200.03951	7.60	5200.03983	7.66
30	VN	5200.02984	5.74	5200.03141	6.04	5200.03668	7.05	5200.03775	7.26
20	VN	5200.02642	5.08	5200.02887	5.55	5200.02951	5.68	5200.03074	5.91
10	VN	5200.03222	6.20	5200.03252	6.25	5200.03549	6.83	5200.03881	7.46
0	VN	5200.03872	7.45	5200.03981	7.66	5200.03838	7.38	5200.04666	8.97





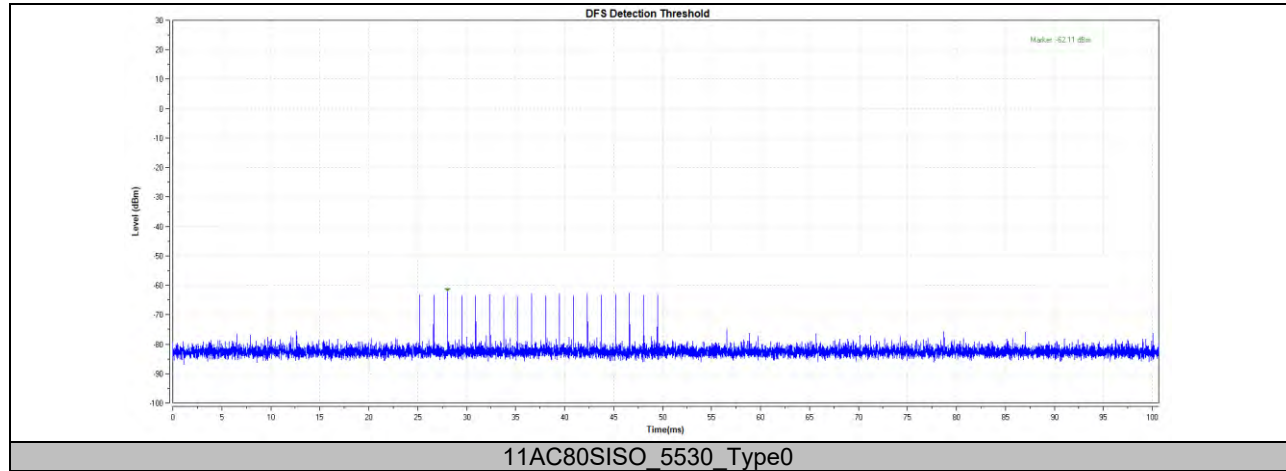
Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.04461	7.66	5825.03769	6.47	5825.03751	6.44	5825.04251	7.30
TN	VN	5825.02744	4.71	5825.02832	4.86	5825.02879	4.94	5825.03226	5.54
TN	VH	5825.03739	6.42	5825.03365	5.78	5825.04142	7.11	5825.04448	7.64
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)
60	VN	5825.04755	8.16	5825.04783	8.21	5825.04868	8.36	5825.05376	9.23
50	VN	5825.03868	6.64	5825.04579	7.86	5825.04677	8.03	5825.04882	8.38
40	VN	5825.03694	6.34	5825.04146	7.12	5825.04684	8.04	5825.04435	7.61
30	VN	5825.03144	5.40	5825.03651	6.27	5825.04345	7.46	5825.03767	6.47
20	VN	5825.02889	4.96	5825.03586	6.16	5825.03326	5.71	5825.03642	6.25
10	VN	5825.02581	4.43	5825.02676	4.59	5825.03137	5.39	5825.03052	5.24
0	VN	5825.03345	5.74	5825.03368	5.78	5825.03558	6.11	5825.03876	6.65

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

## 11.1. Appendix F: Dynamic Frequency Selection

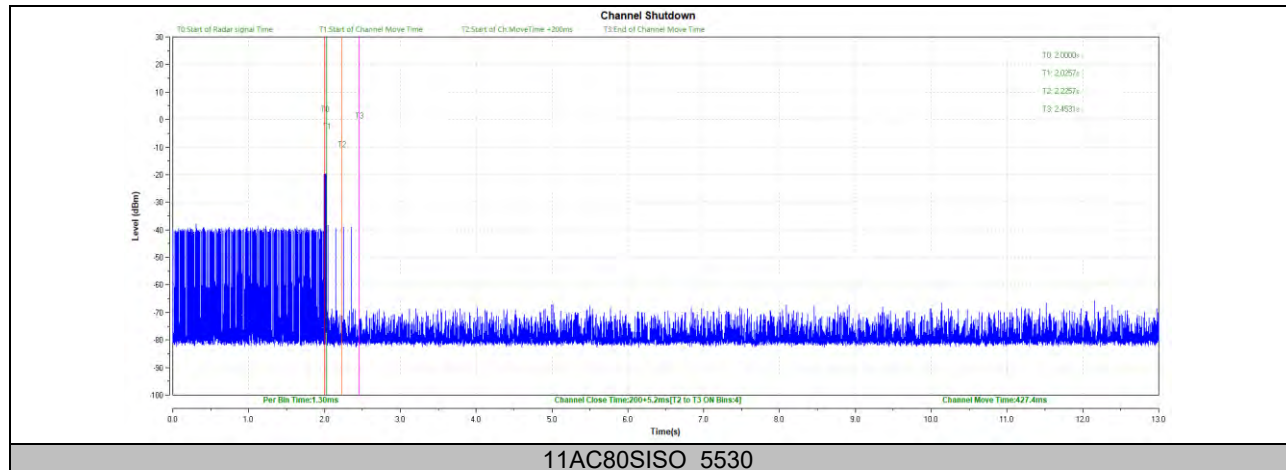
### DFS Detection Thresholds

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.11	-59.70	PASS



### Channel Move Time and Channel Closing Transmission Time

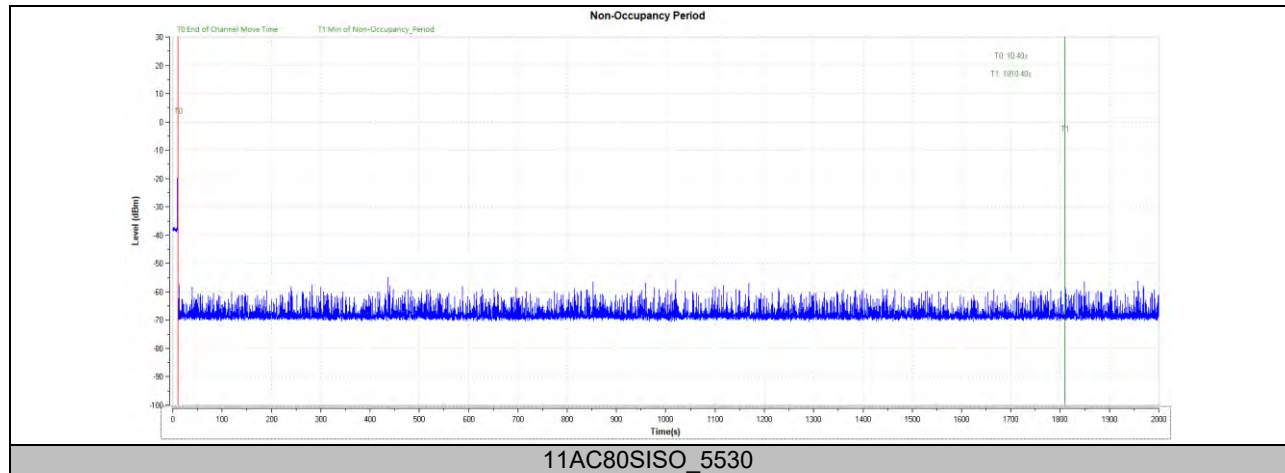
Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+5.2	200+60	427.4	10000	PASS





## Non-Occupancy Period

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



Note: All the modes had been tested, but only the worst data was recorded in the report.

**END OF REPORT**