

11.6. APPENDIX E: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a: 5180 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
TN	VL	5180.0212	4.10	5180.0038	0.73	5179.9973	-0.53	5179.9930	-1.35
TN	VN	5179.9826	-3.36	5179.9887	-2.18	5180.0042	0.81	5180.0231	4.46
TN	VH	5180.0174	3.37	5179.9929	-1.37	5180.0008	0.15	5179.9818	-3.51
Frequency Error vs. Temperature									
802.11a: 5180 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
70	VN	5179.9755	-4.74	5180.0131	2.52	5180.0191	3.70	5180.0159	3.07
60	VN	5180.0129	2.50	5179.9755	-4.73	5179.9873	-2.45	5179.9895	-2.02
50	VN	5179.9969	-0.59	5180.0221	4.26	5179.9924	-1.47	5180.0185	3.56
40	VN	5180.0028	0.55	5179.9762	-4.60	5179.9764	-4.56	5179.9829	-3.30
30	VN	5179.9870	-2.51	5180.0212	4.10	5180.0174	3.35	5180.0062	1.20
20	VN	5179.9969	-0.60	5180.0166	3.21	5179.9866	-2.58	5180.0005	0.10
10	VN	5180.0014	0.27	5180.0185	3.58	5179.9852	-2.85	5179.9796	-3.93
0	VN	5179.9879	-2.34	5180.0057	1.10	5179.9878	-2.36	5179.9998	-0.03
-10	VN	5179.9994	-0.11	5179.9792	-4.01	5179.9772	-4.39	5180.0111	2.15

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

Frequency Error vs. Voltage									
802.11a: 5825 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
TN	VL	5825.0207	3.56	5825.0076	1.31	5825.0188	3.22	5825.0184	3.16
TN	VN	5825.0006	0.11	5824.9791	-3.59	5824.9852	-2.55	5825.0084	1.44
TN	VH	5824.9763	-4.07	5825.0070	1.21	5825.0057	0.97	5825.0032	0.55

Frequency Error vs. Temperature									
802.11a: 5825 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
70	VN	5825.0250	4.28	5824.9800	-3.43	5824.9885	-1.97	5824.9986	-0.24
60	VN	5824.9970	-0.51	5824.9837	-2.80	5824.9914	-1.48	5824.9843	-2.70
50	VN	5824.9904	-1.64	5825.0032	0.54	5825.0028	0.48	5825.0156	2.68
40	VN	5825.0045	0.77	5824.9819	-3.11	5824.9984	-0.28	5824.9780	-3.77
30	VN	5824.9811	-3.25	5824.9994	-0.11	5824.9785	-3.70	5825.0233	3.99
20	VN	5825.0178	3.06	5824.9843	-2.70	5824.9760	-4.12	5824.9837	-2.80
10	VN	5824.9751	-4.27	5825.0153	2.62	5824.9831	-2.90	5825.0171	2.94
0	VN	5825.0000	0.00	5824.9823	-3.04	5824.9999	-0.02	5825.0230	3.95
-10	VN	5824.9760	-4.12	5825.0224	3.84	5825.0162	2.78	5825.0084	1.44

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

11.7. APPENDIX F: DUTY CYCLE

11.7.1. 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	1.4	1.5	0.9333	93.33	0.30	0.71	1
11N20MIMO	1.29	1.39	0.9281	92.81	0.32	0.78	1
11N40MIMO	0.64	0.74	0.8649	86.49	0.63	1.56	2
11AC80MIMO	0.32	0.42	0.7619	76.19	1.18	3.13	4
11AX20MIMO	0.12	0.22	0.5455	54.55	2.63	8.33	9
11AX40MIMO	0.09	0.19	0.4737	47.37	3.25	11.11	12
11AX80MIMO	0.08	0.18	0.4444	44.44	3.52	12.50	13

Note:

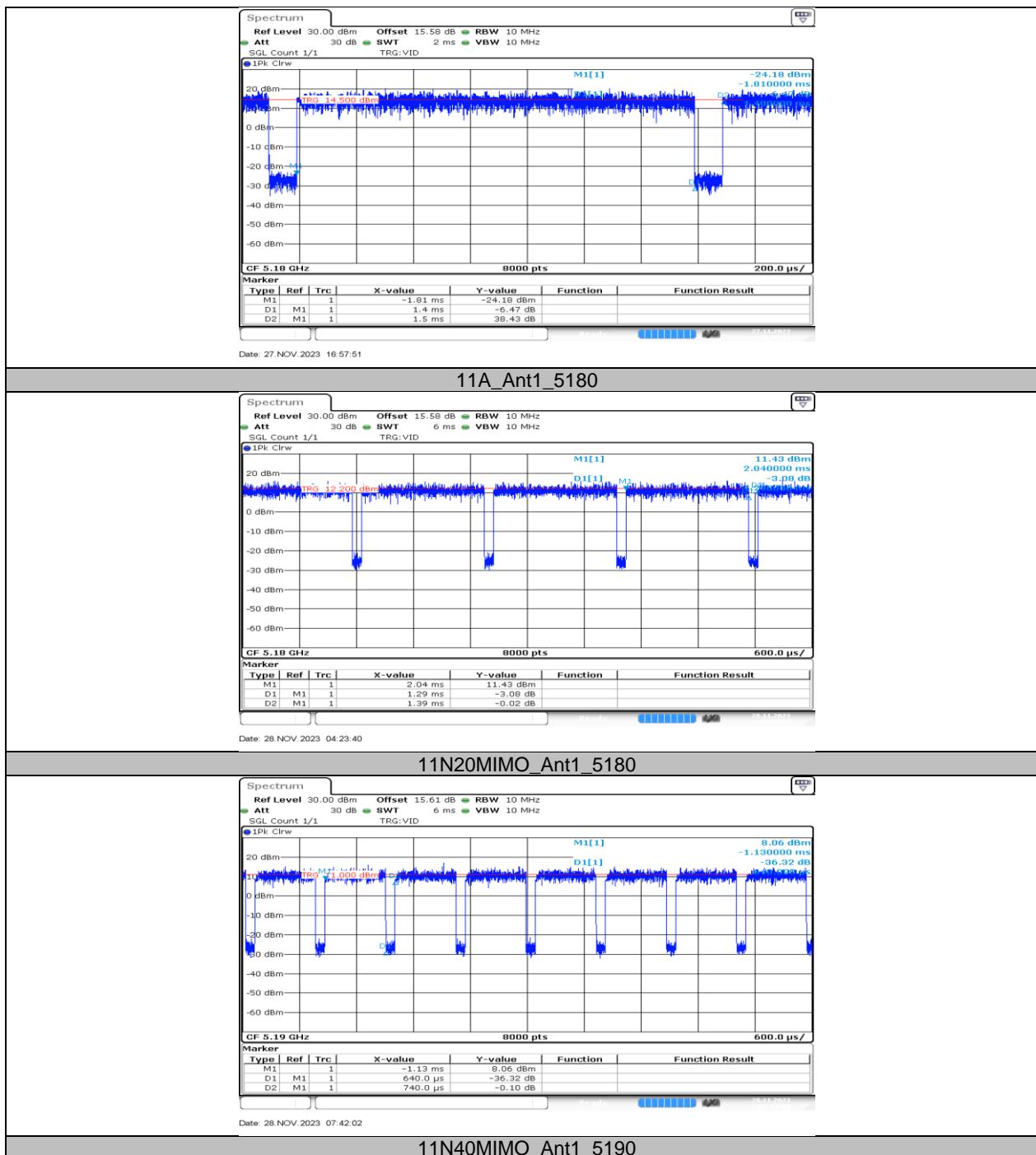
Duty Cycle Correction Factor=10log (1/x).

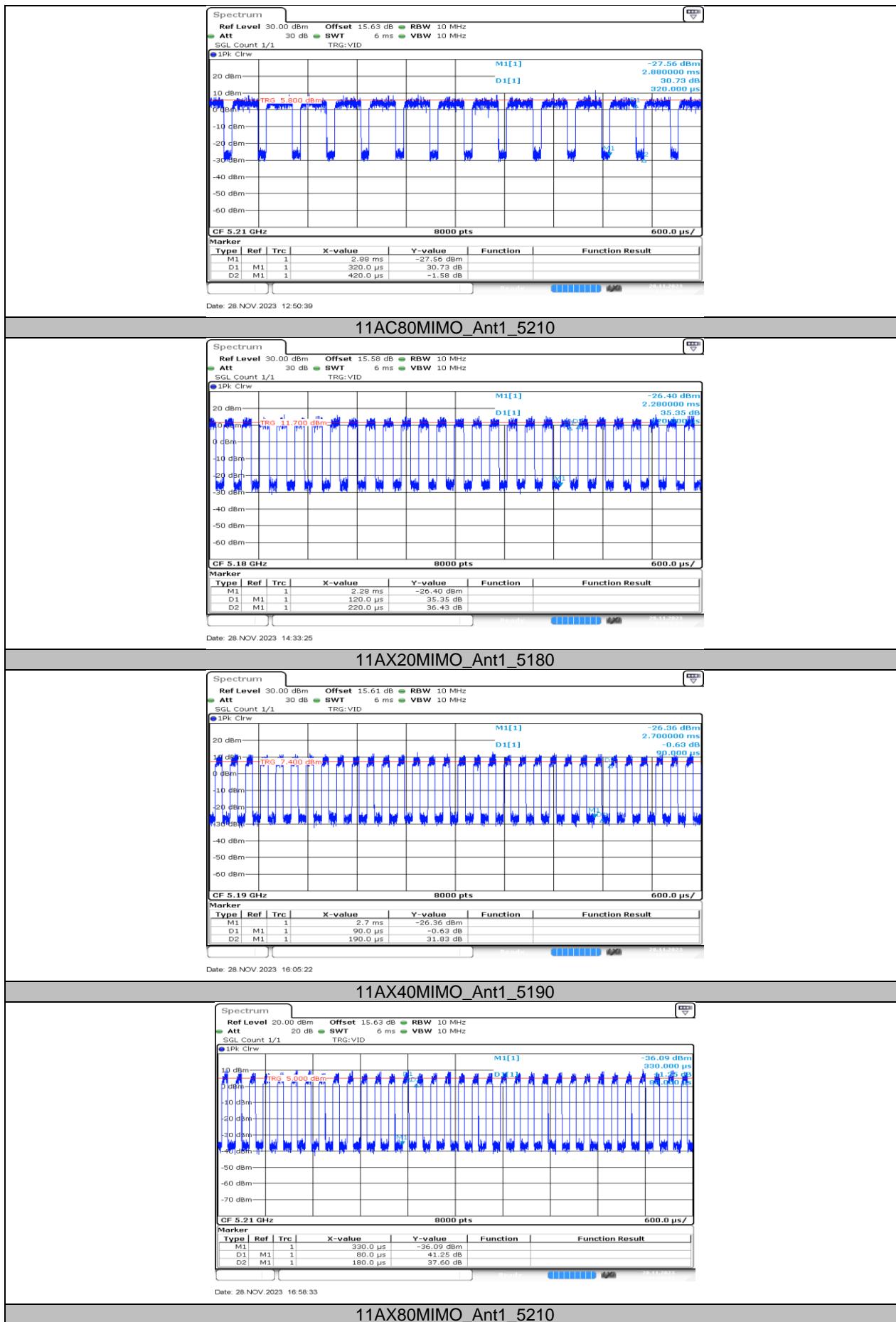
Where: x is Duty Cycle (Linear)

Where: T is On Time

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

11.7.2. Test Graphs





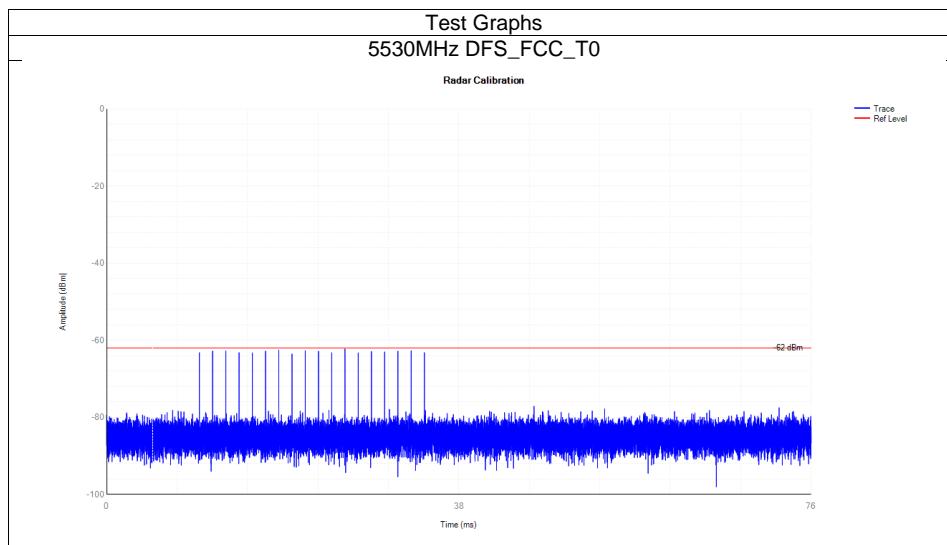
11.8. APPENDIX G: DFS DETECTION THRESHOLDS

11.8.1. Test Result

Mode	Frequency (MHz)	Type	Result	Verdict
ax80	5530	DFS_FCC_T0	See test Graph	Pass

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

11.8.2. Test Graphs



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

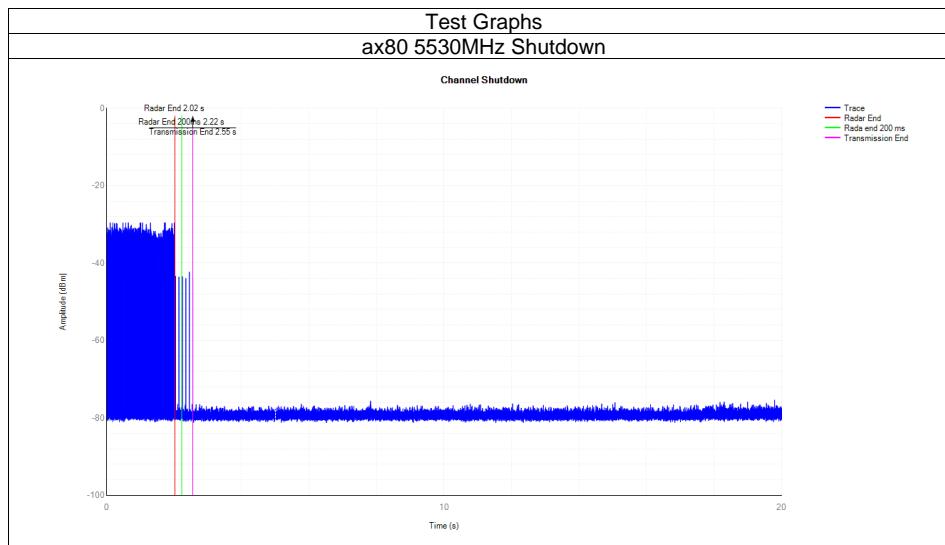
11.9. APPENDIX H: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.9.1. Test Result

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ax80	5530	0.53	10	0.013	0.26	0.008	0.06	Pass

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

11.9.2. Test Graphs



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

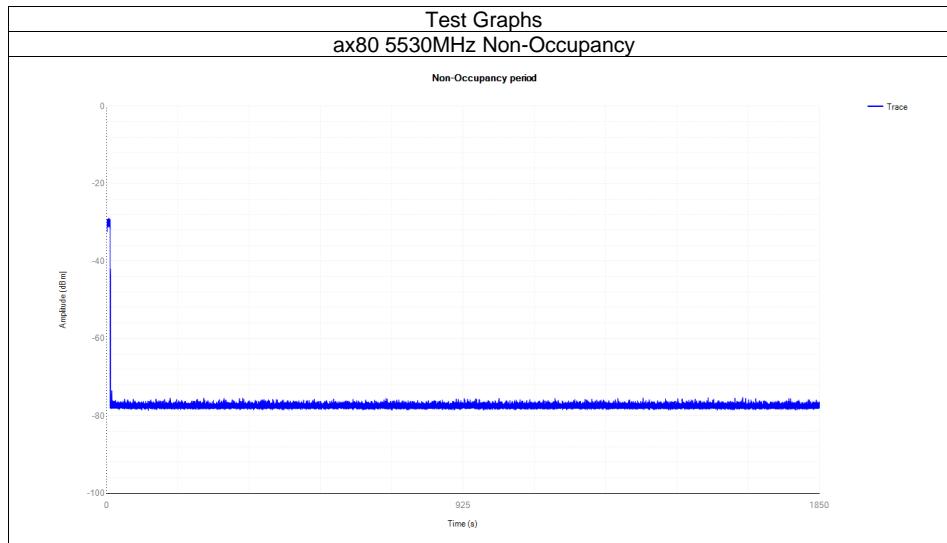
11.10. APPENDIX I: NON-OCCUPANCY PERIOD

11.10.1. Test Result

Mode	Frequency (MHz)	Result	Verdict
ax80	5530	See test Graph	Pass

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

11.10.2. Test Graphs



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

END OF REPORT