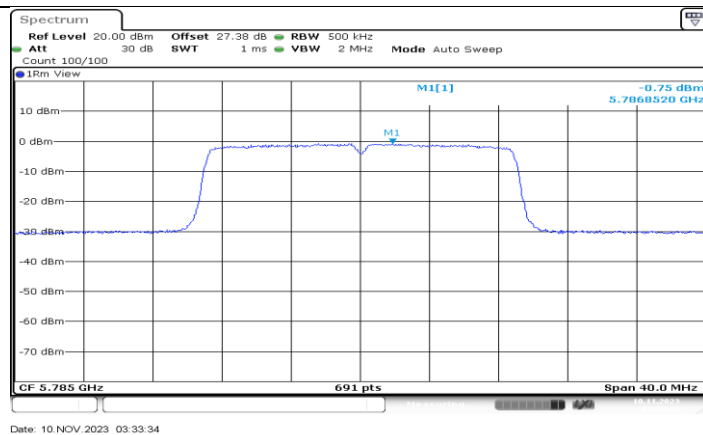
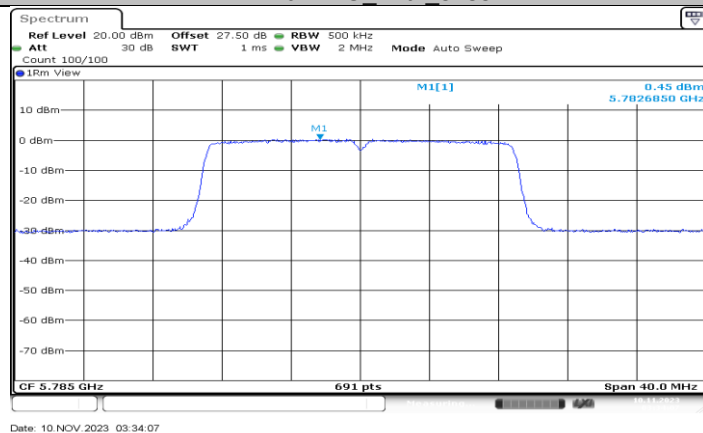
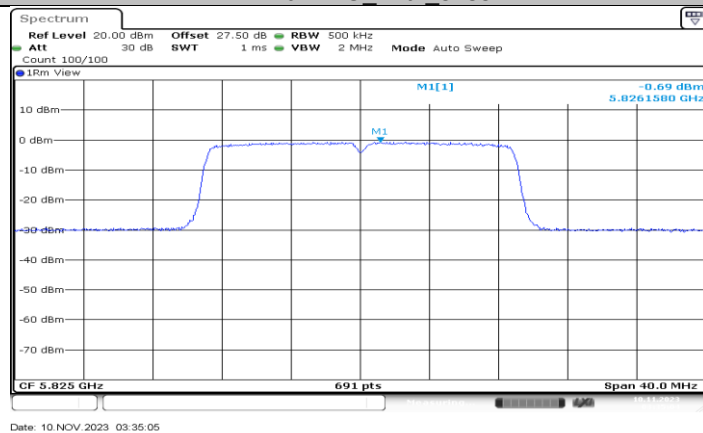




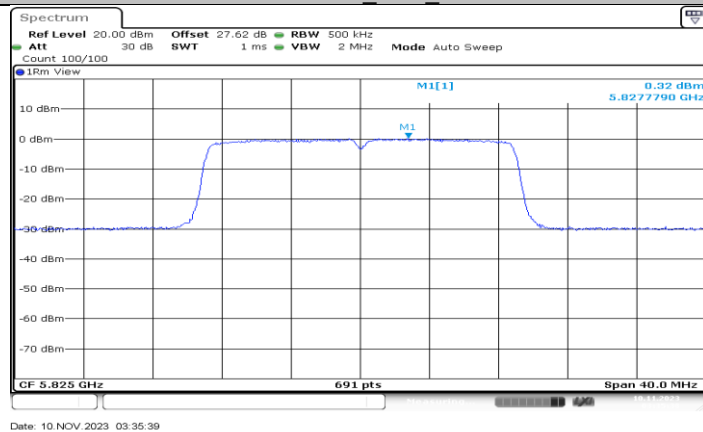
11N20MIMO_Ant1_5785

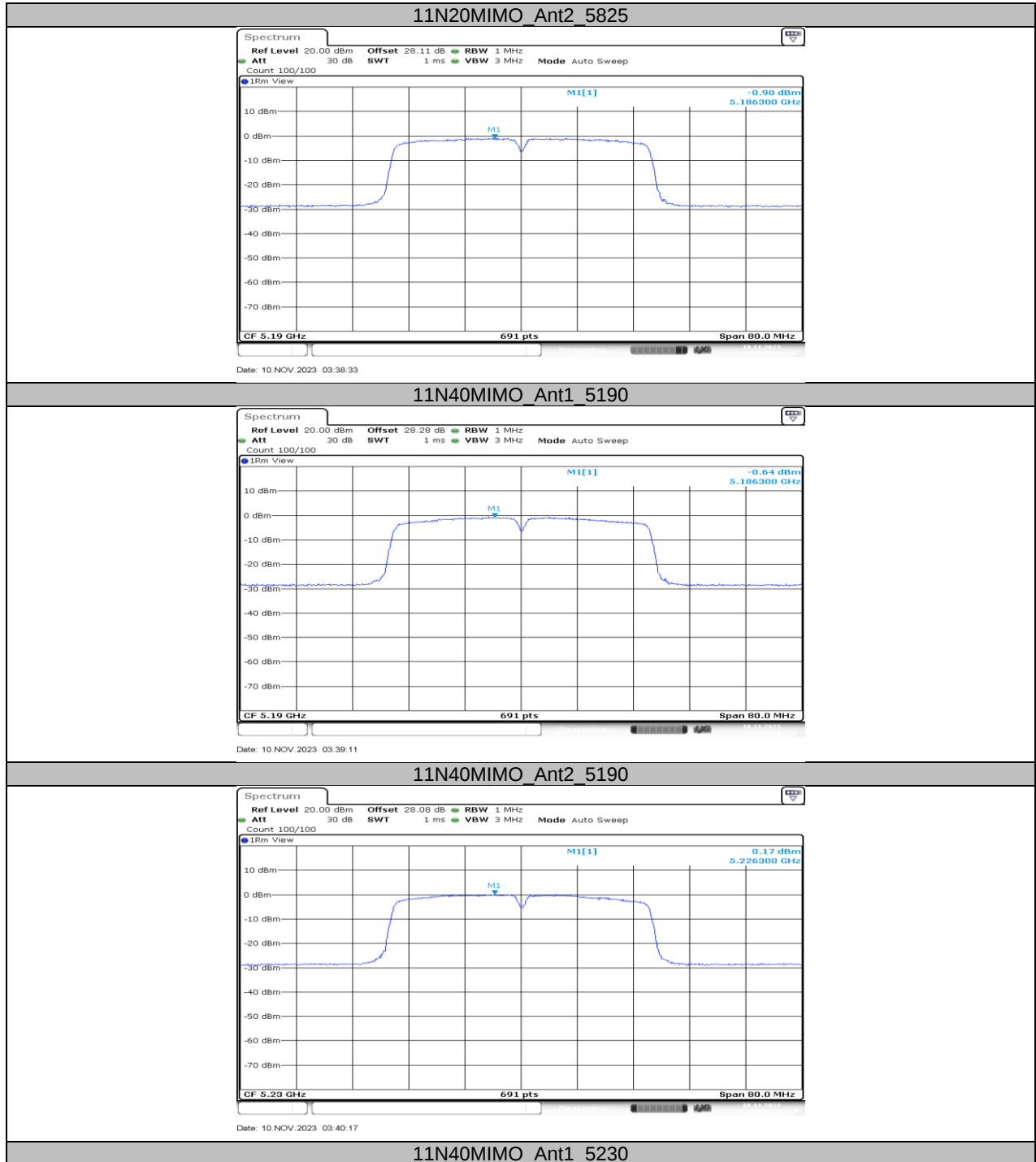


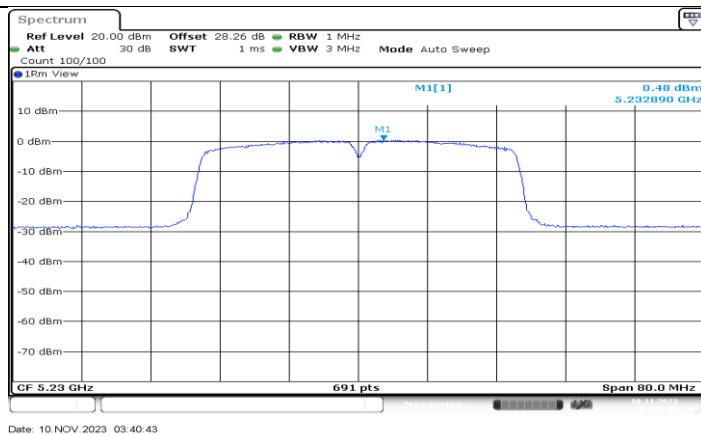
11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825

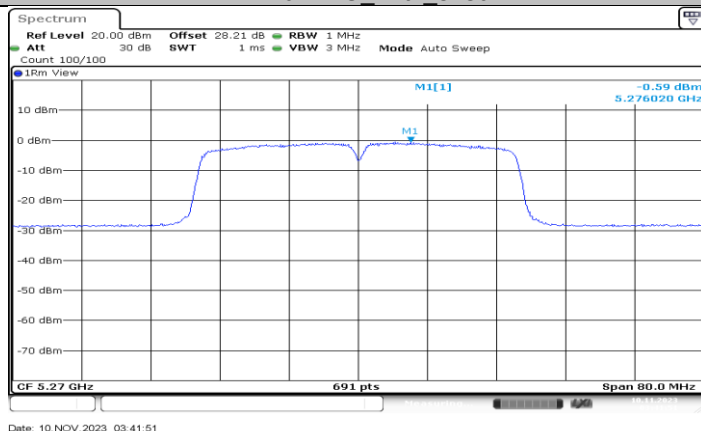






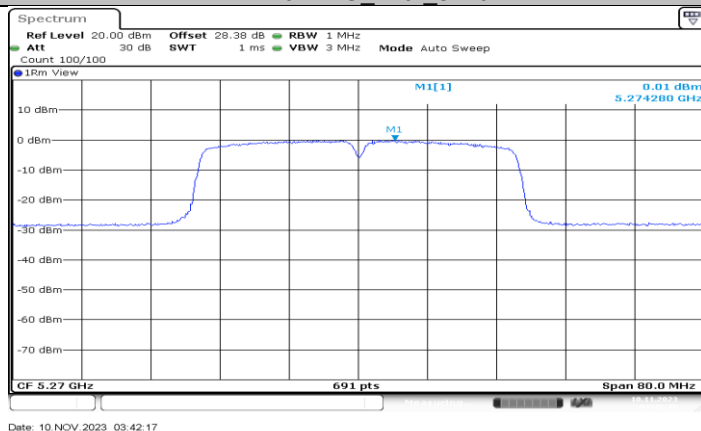
Date: 10 NOV 2023 03:40:43

11N40MIMO_Ant2_5230



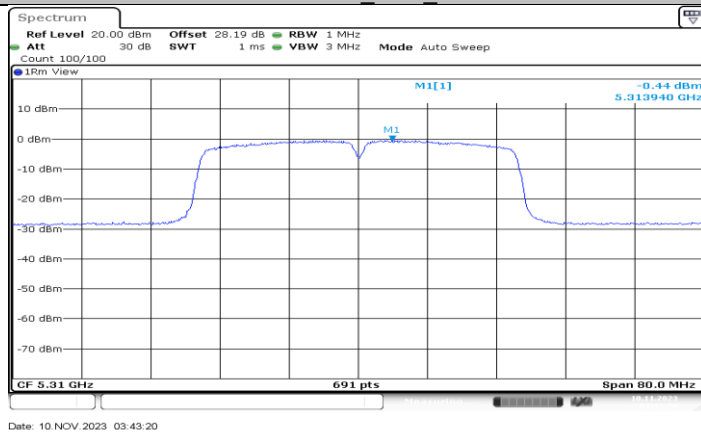
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11N40MIMO_Ant1_5270

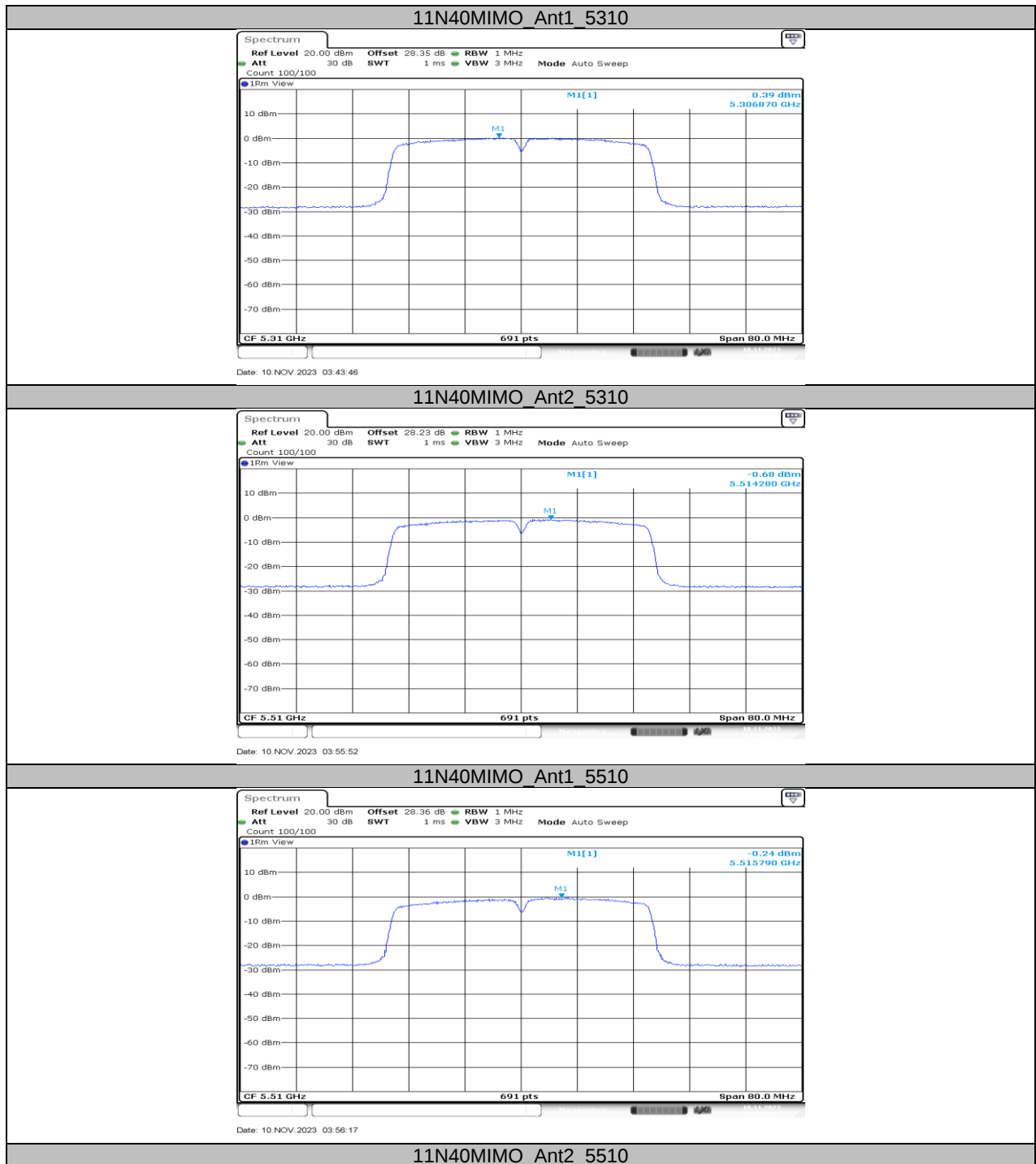


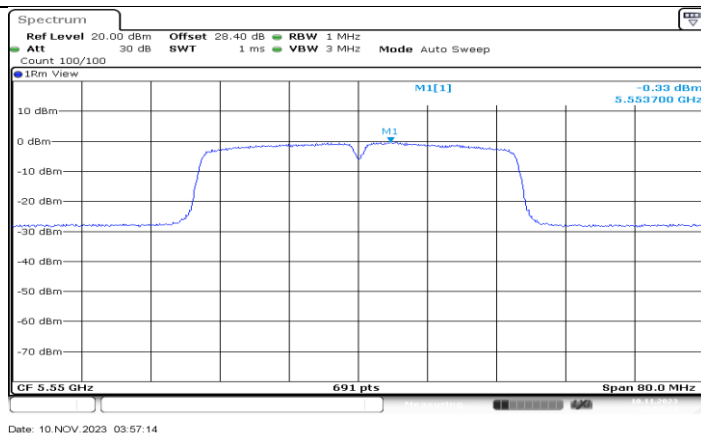
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11N40MIMO_Ant2_5270



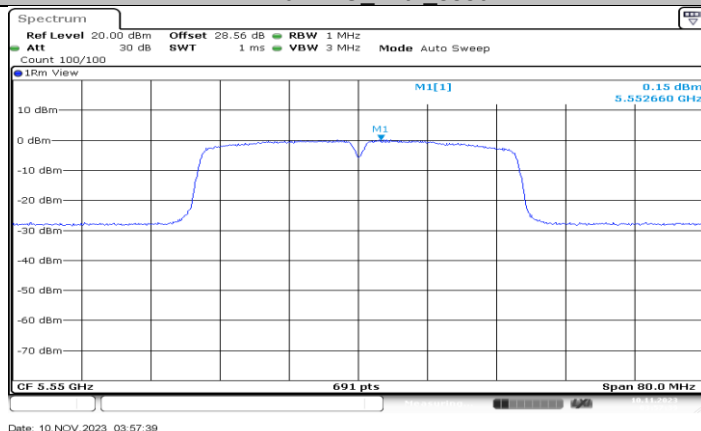
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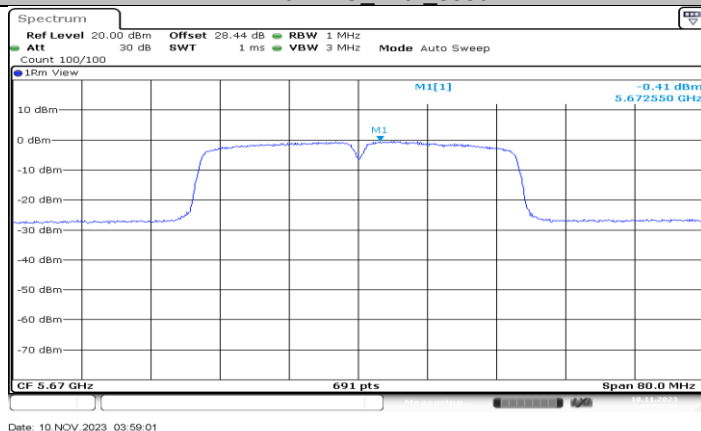
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11N40MIMO_Ant1_5550



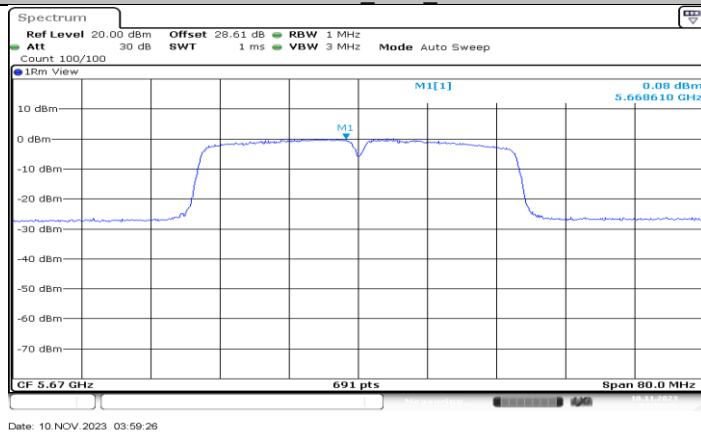
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11N40MIMO_Ant2_5550



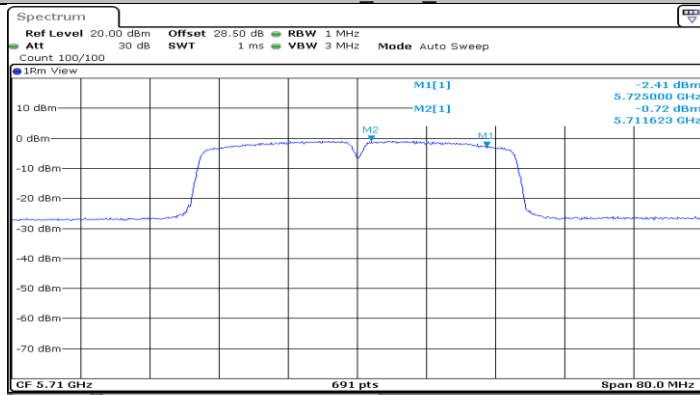
Date: 10 NOV 2023 03:59:01

11N40MIMO_Ant1_5670



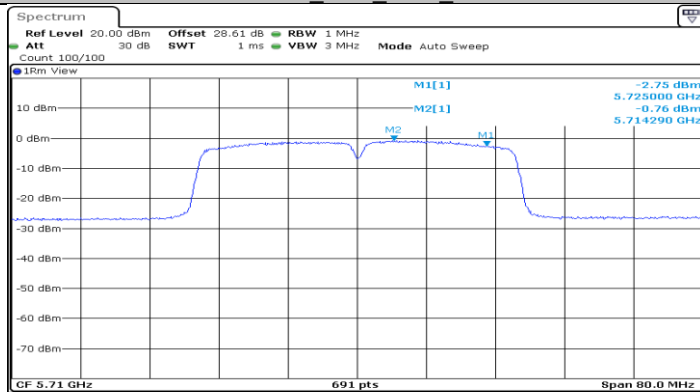
Date: 10 NOV 2023 03:59:28

11N40MIMO_Ant2_5670



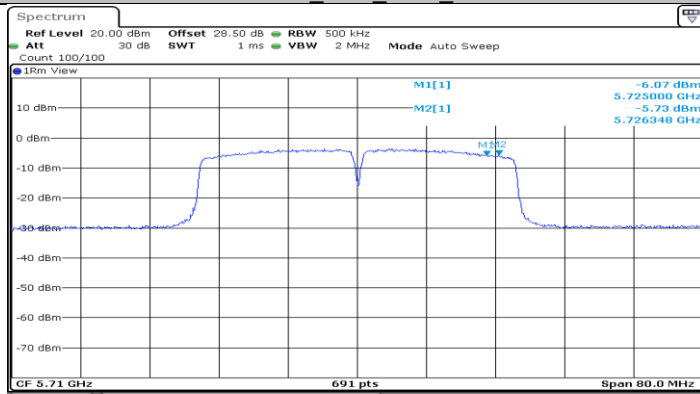
Date: 10 NOV 2023 04:00:58

11N40MIMO_Ant1_5710_UNII-2C



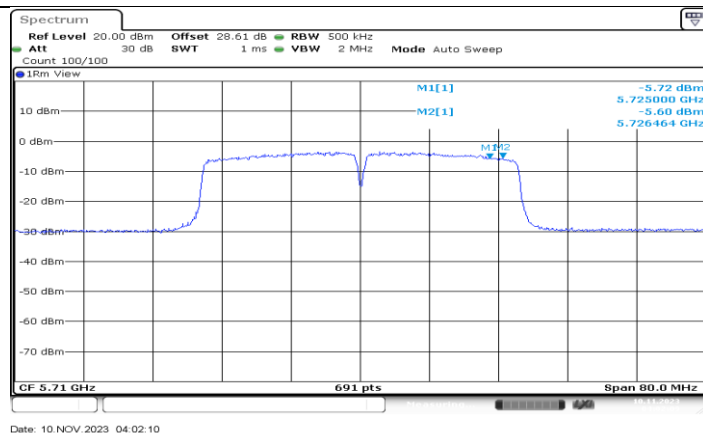
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11N40MIMO_Ant2_5710_UNII-2C

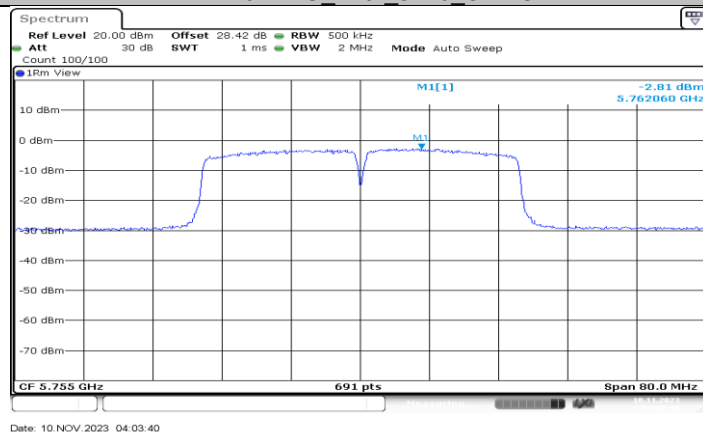


Date: 10 NOV 2023 04:01:04

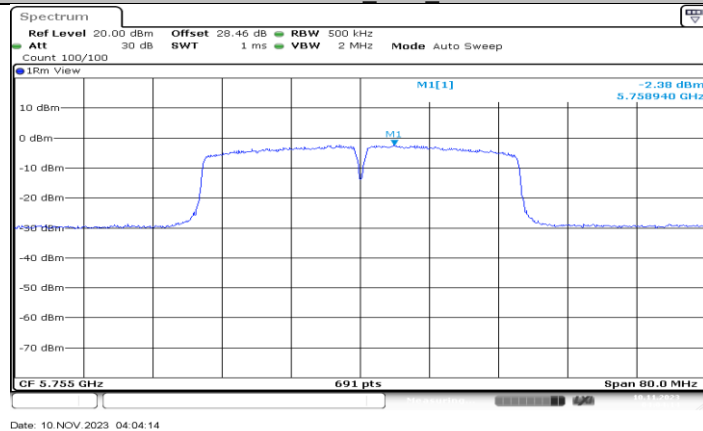
11N40MIMO_Ant1_5710_UNII-3



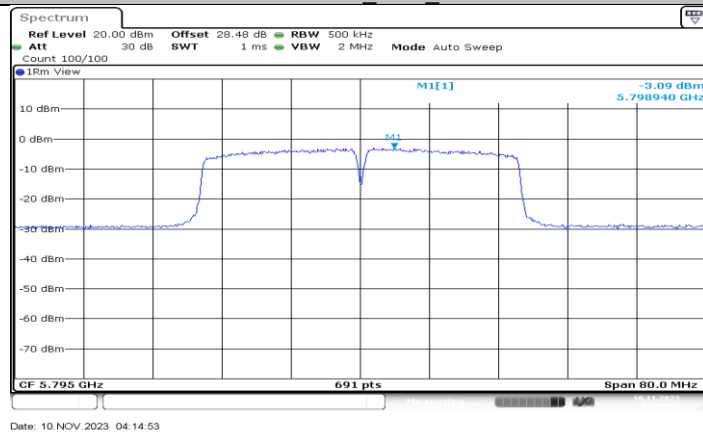
11N40MIMO_Ant2_5710_UNII-3



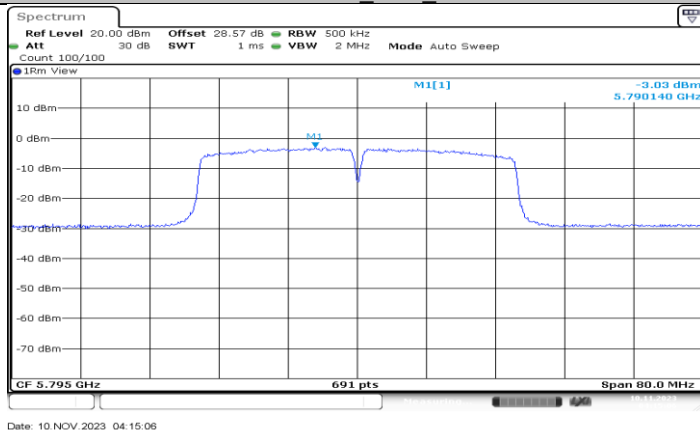
11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755

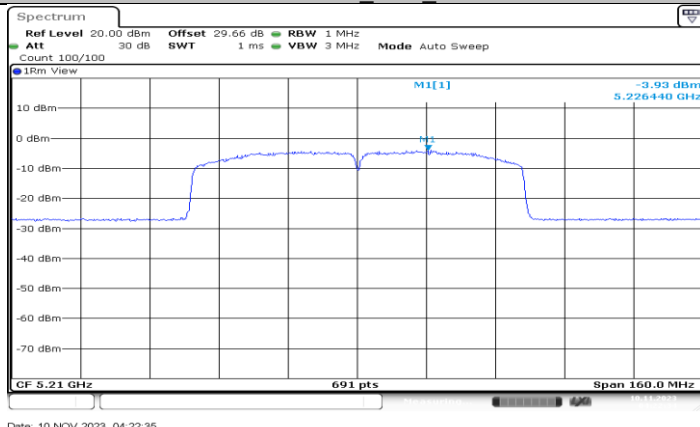


11N40MIMO_Ant1_5795



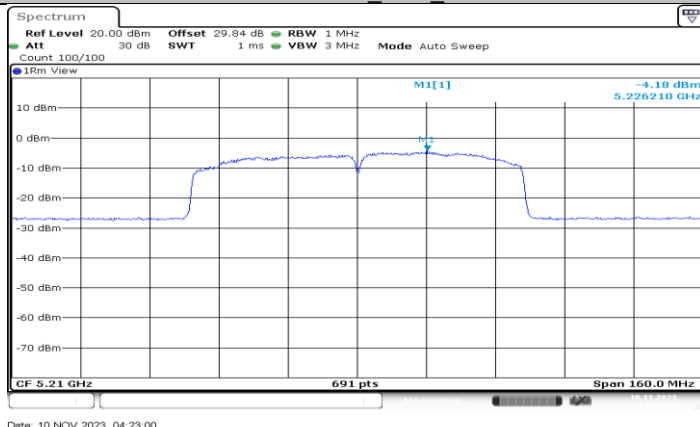
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11N40MIMO_Ant2_5795



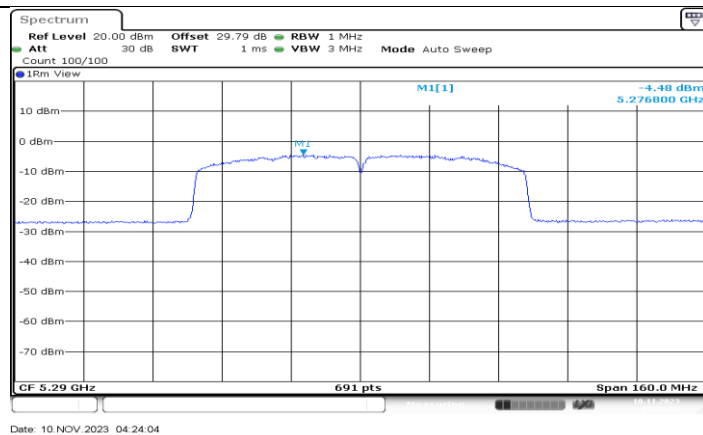
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11AC80MIMO_Ant1_5210

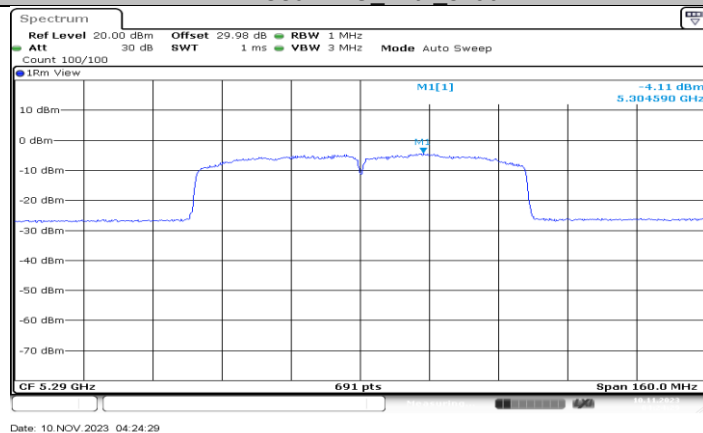


Date: 10 NOV 2023 04:23:00

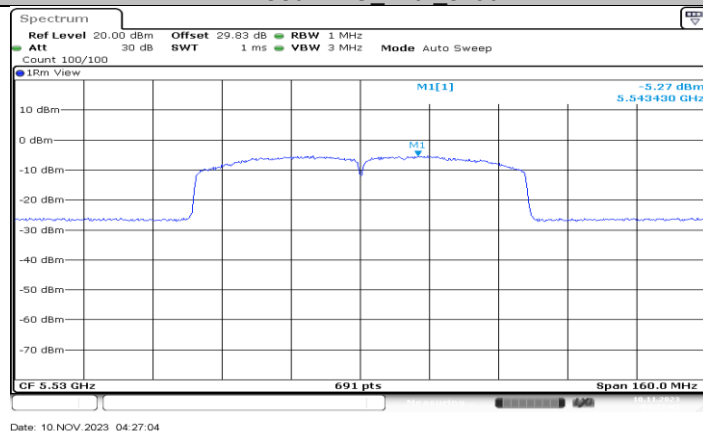
11AC80MIMO_Ant2_5210



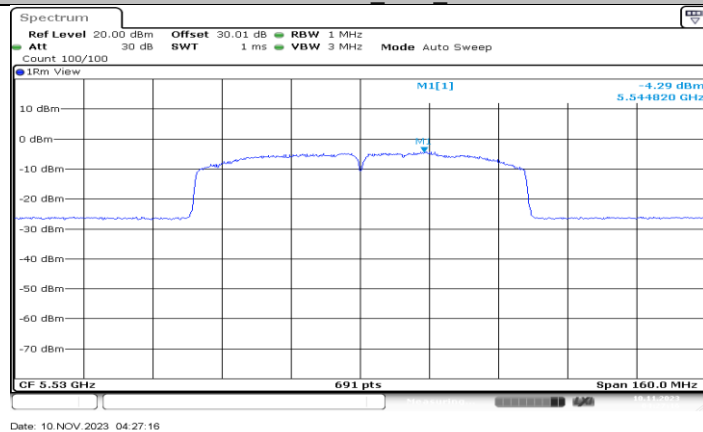
11AC80MIMO_Ant1_5290



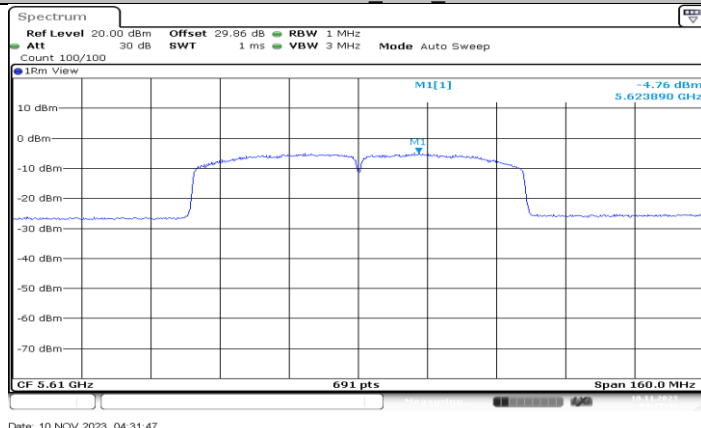
11AC80MIMO_Ant2_5290



11AC80MIMO_Ant1_5530

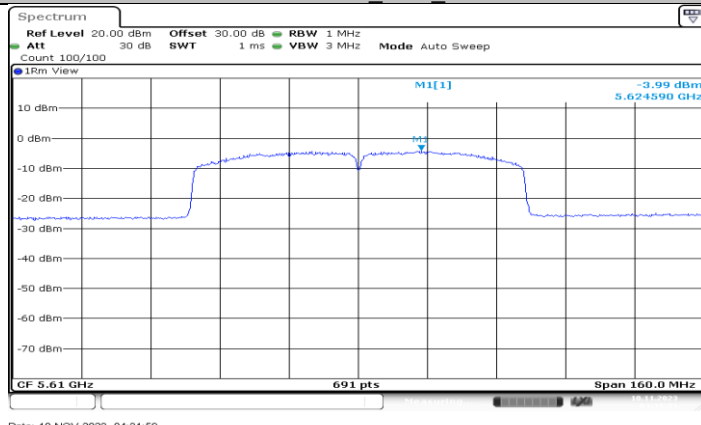


11AC80MIMO_Ant2_5530



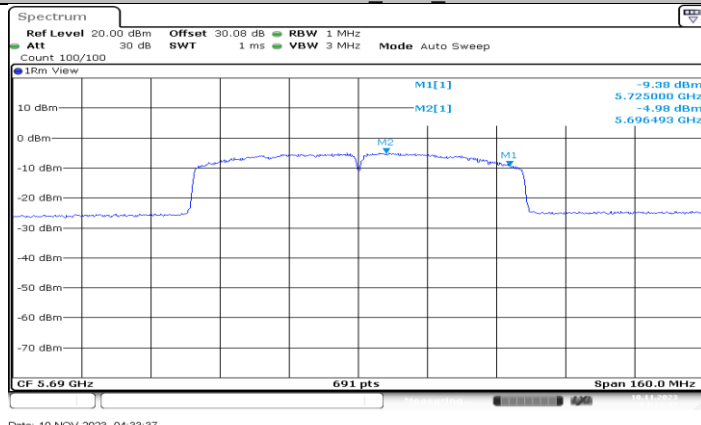
Date: 10 NOV 2023 04:31:47

11AC80MIMO_Ant1_5610



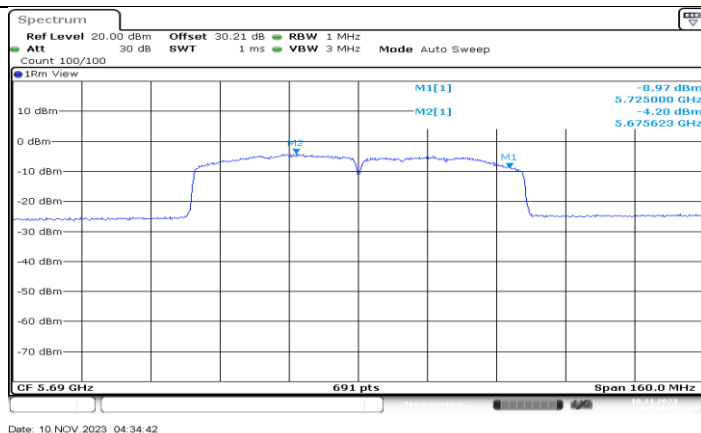
Date: 10 NOV 2023 04:31:59

11AC80MIMO_Ant2_5610

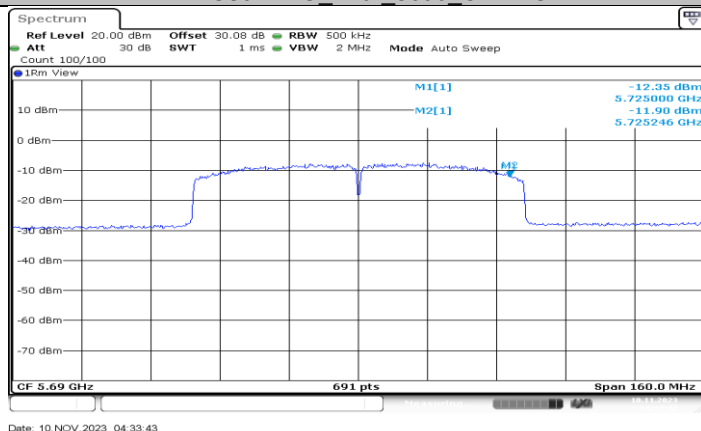


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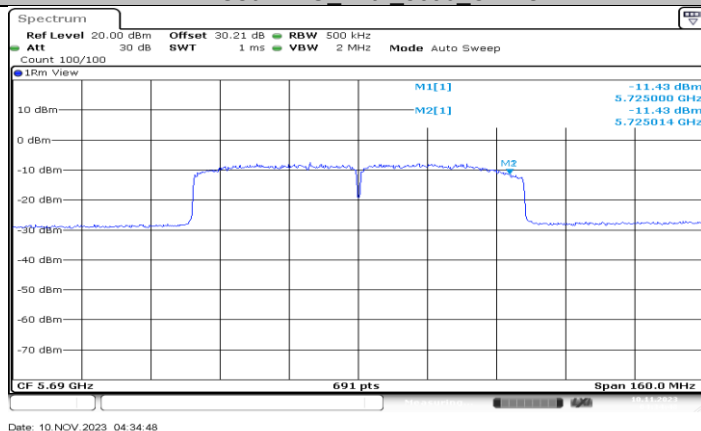
11AC80MIMO_Ant1_5690_UNII-2C



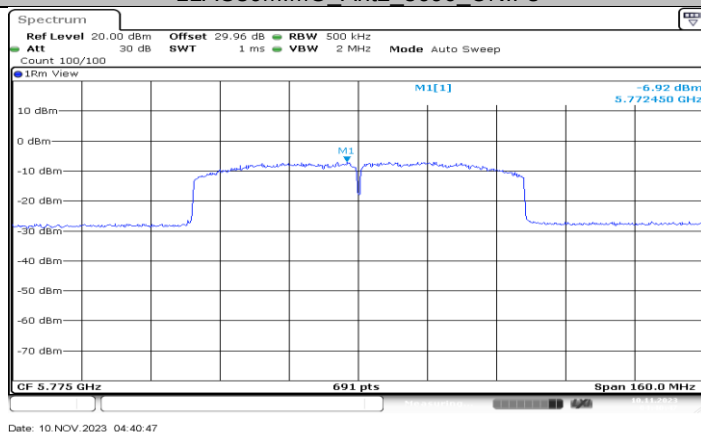
11AC80MIMO_Ant2_5690_UNII-2C

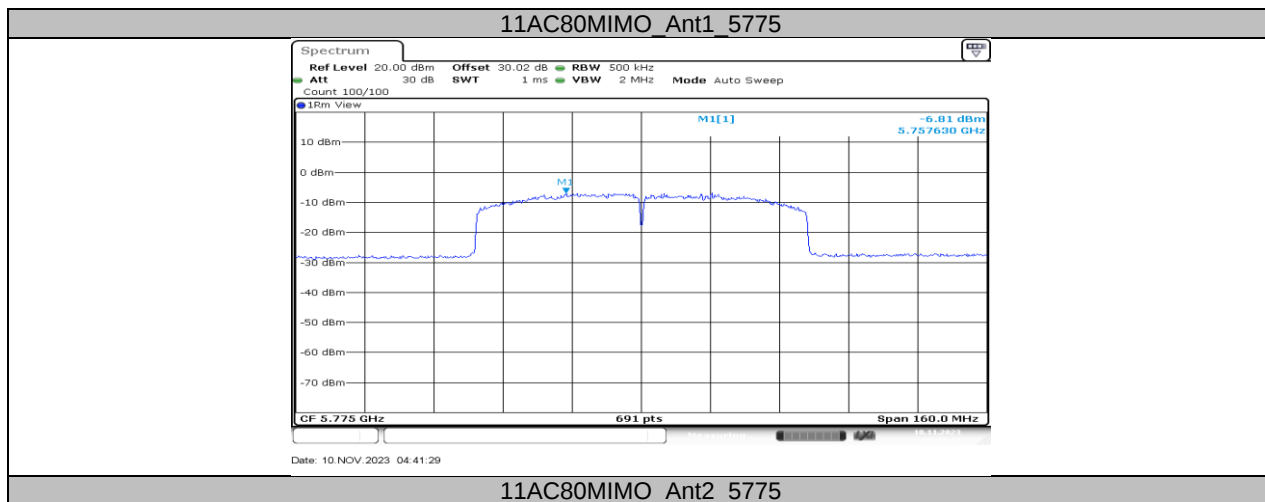


11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3





11.6. APPENDIX G: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a:5180MHz									
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	5180.0115	2.21	5179.9797	-3.92	5180.0019	0.37	5180.0061	1.18
TN	VN	5179.9972	-0.54	5179.9875	-2.41	5180.0228	4.41	5179.9812	-3.62
TN	VH	5180.0075	1.45	5180.0000	0.00	5180.0185	3.57	5179.9913	-1.68
Frequency Error vs. Temperature									
802.11a:5180MHz									
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	5179.9879	-2.34	5180.0076	1.47	5180.0058	1.12	5179.9950	-0.96
60	VN	5180.0190	3.66	5179.9877	-2.37	5179.9917	-1.61	5180.0019	0.37
50	VN	5179.9782	-4.21	5180.0174	3.36	5180.0099	1.91	5180.0008	0.16
40	VN	5180.0139	2.69	5180.0063	1.21	5179.9808	-3.70	5179.9995	-0.11
30	VN	5179.9797	-3.92	5179.9964	-0.70	5180.0072	1.39	5180.0139	2.69
20	VN	5180.0136	2.62	5180.0117	2.27	5179.9869	-2.54	5179.9858	-2.74
10	VN	5180.0171	3.29	5179.9799	-3.88	5179.9974	-0.51	5179.9841	-3.06
0	VN	5180.0228	4.41	5180.0026	0.49	5180.0183	3.53	5180.0180	3.48

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: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	5825.0246	4.23	5824.9980	-0.34	5824.9913	-1.50	5824.9877	-2.11
TN	VN	5825.0160	2.75	5824.9866	-2.30	5825.0202	3.46	5825.0218	3.74
TN	VH	5825.0063	1.08	5824.9940	-1.03	5825.0135	2.31	5824.9823	-3.04
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	5825.0193	3.31	5824.9912	-1.52	5824.9933	-1.15	5824.9947	-0.90
60	VN	5825.0113	1.95	5824.9916	-1.44	5824.9914	-1.48	5825.0050	0.86
50	VN	5825.0015	0.25	5824.9859	-2.43	5824.9779	-3.79	5824.9815	-3.17
40	VN	5824.9836	-2.82	5825.0039	0.67	5824.9854	-2.50	5824.9839	-2.77
30	VN	5824.9911	-1.53	5824.9921	-1.36	5825.0030	0.52	5824.9890	-1.89
20	VN	5824.9952	-0.83	5825.0219	3.76	5824.9787	-3.67	5825.0224	3.84
10	VN	5825.0065	1.11	5824.9963	-0.63	5824.9860	-2.40	5825.0247	4.24
0	VN	5824.9940	-1.04	5825.0061	1.04	5825.0041	0.70	5825.0159	2.73

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 H: 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	1.35	1.84	0.7337	73.37	1.34	0.74	1
11N20MIMO	1.26	1.75	0.7200	72.00	1.43	0.79	1
11N40MIMO	0.63	1.12	0.5625	56.25	2.50	1.59	2
11AC80MIMO	0.32	0.81	0.3951	39.51	4.03	3.13	4

Note:

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

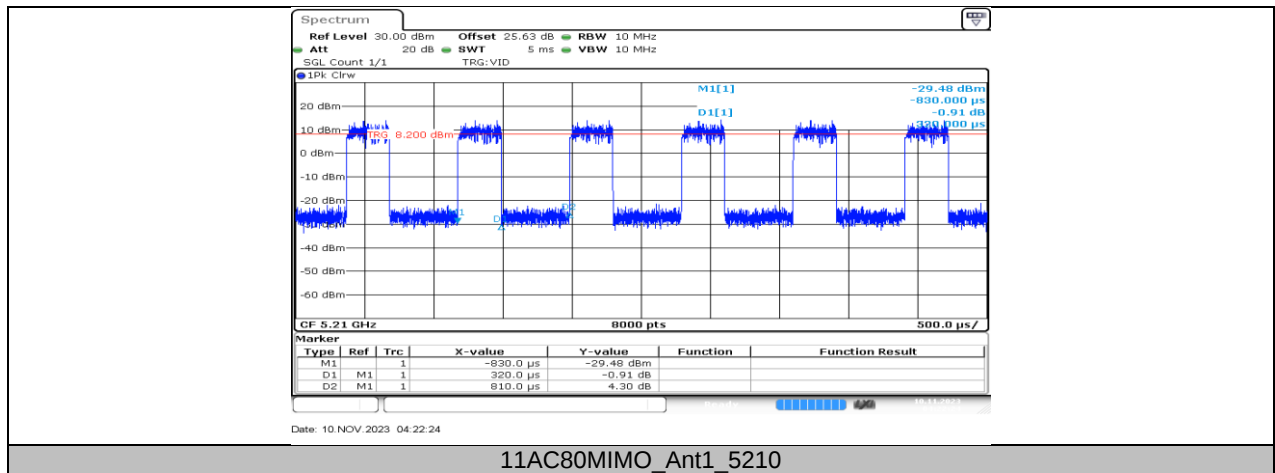
Where: x is Duty Cycle (Linear)

Where: T is On Time

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

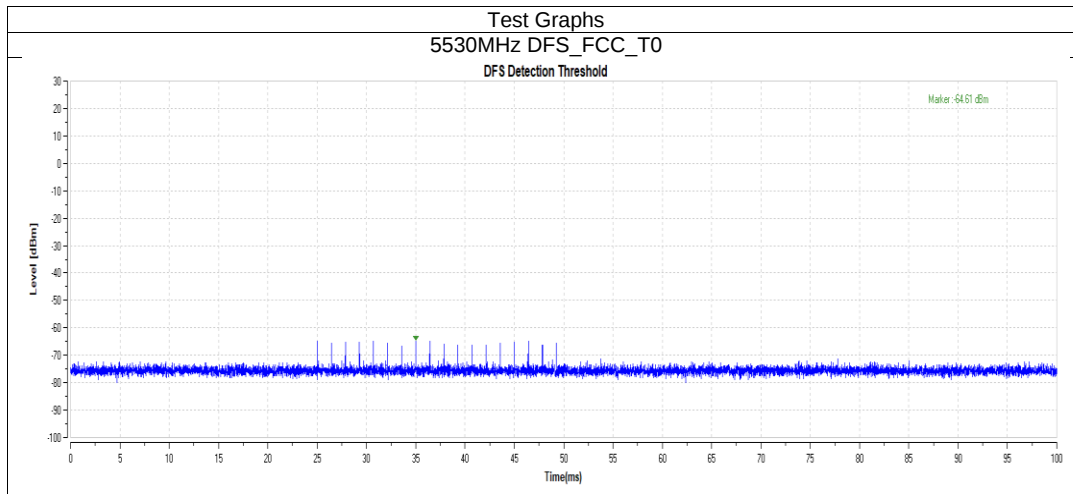
11.7.2. Test Graphs





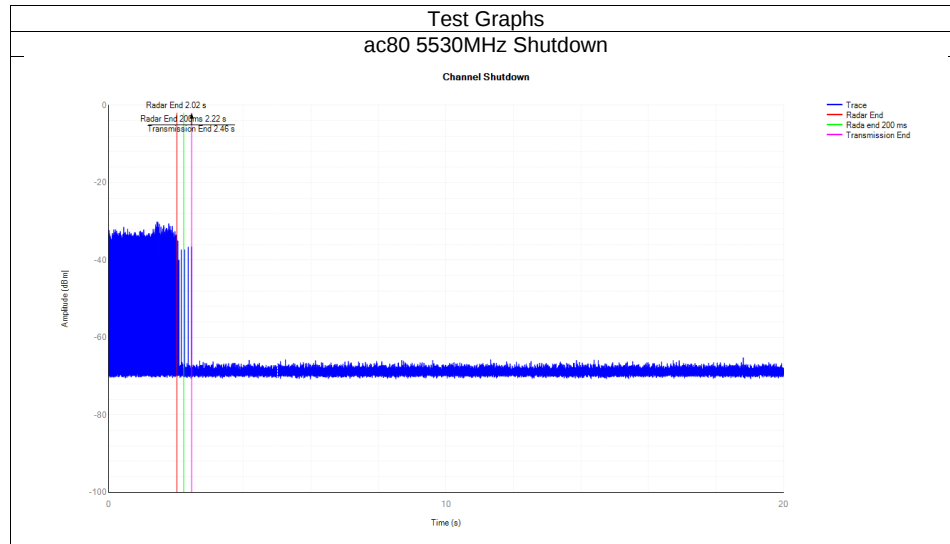
11.8. APPENDIX I: CALIBRATION

Mode	Frequency (MHz)	Type	Result	Verdict
ac80	5530	DFS_FCC_T0	See test Graph	Pass



11.9. APPENDIX J: SHUTDOWN TIME

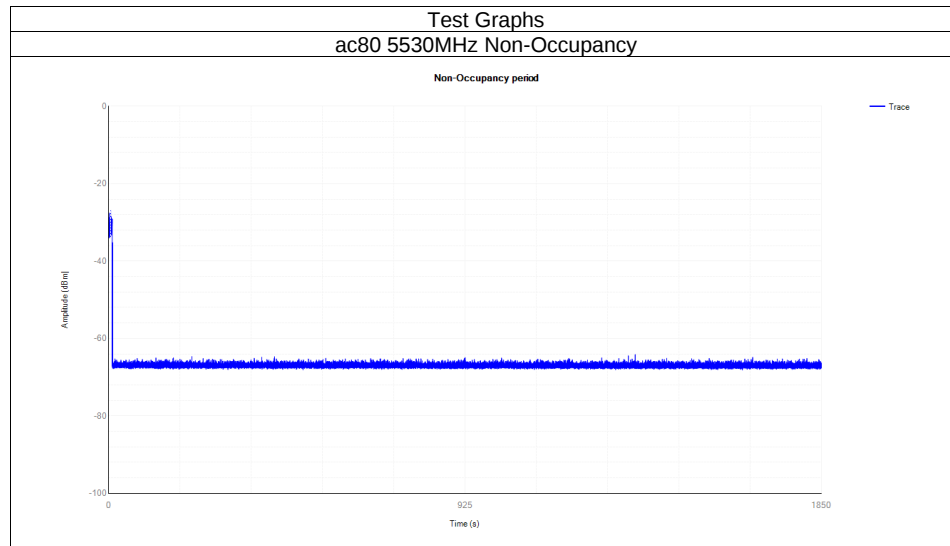
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5530	0.437	10	0.015	0.26	0.004	0.06	Pass



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

11.10. APPENDIX K: NON-OCCUPANCY

Mode	Frequency (MHz)	Result	Verdict
ac80	5530	See test Graph	Pass



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

END OF REPORT