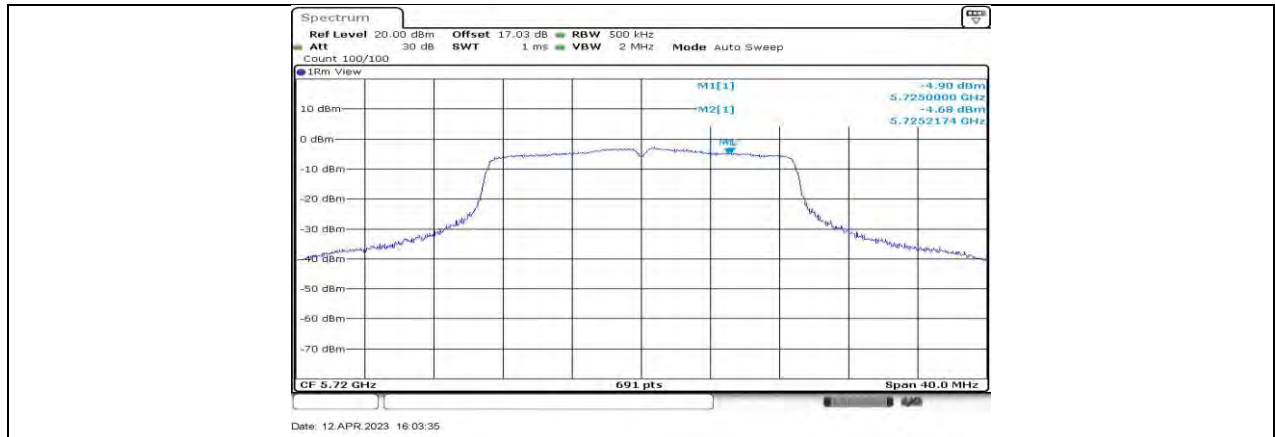




11N20MIMO Ant1_5720_UNII-3



11N20MIMO Ant2_5720_UNII-3



11N20MIMO Ant1_5745



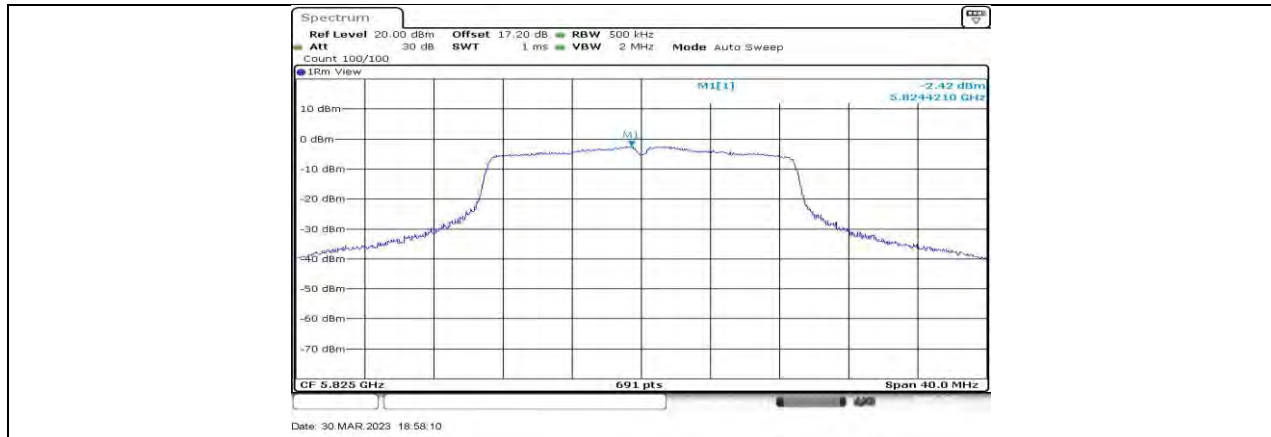
11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



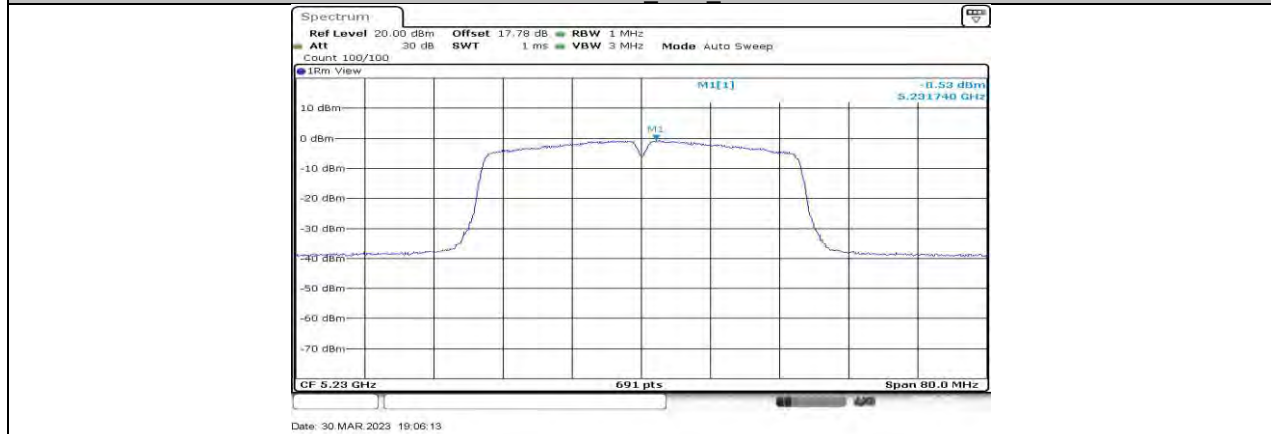
11N40MIMO_Ant1_5190



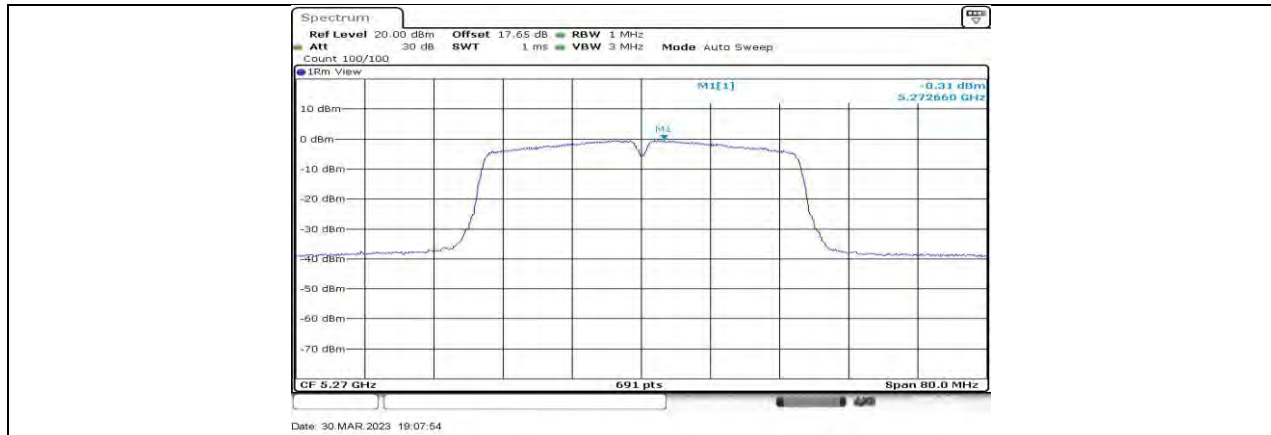
11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



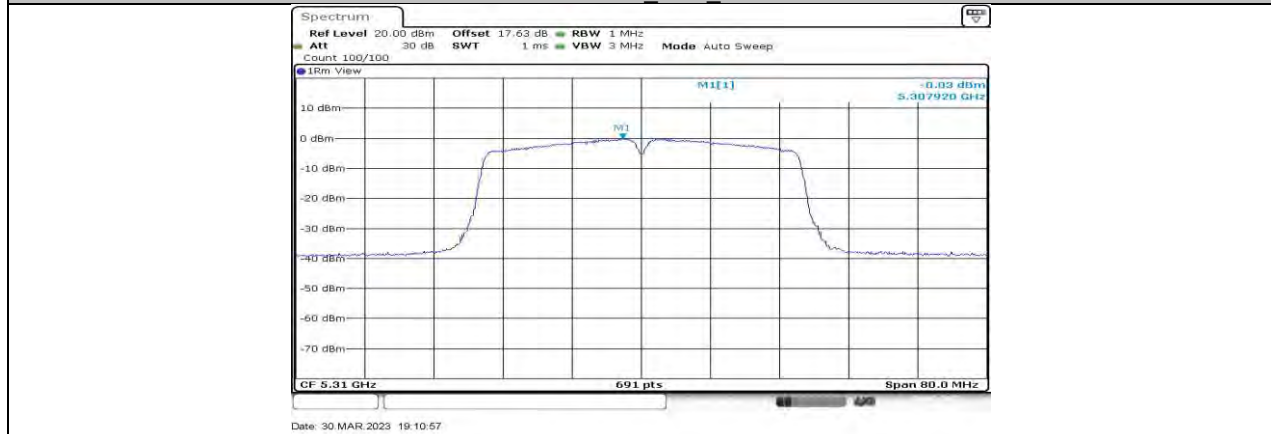
11N40MIMO_Ant2_5230



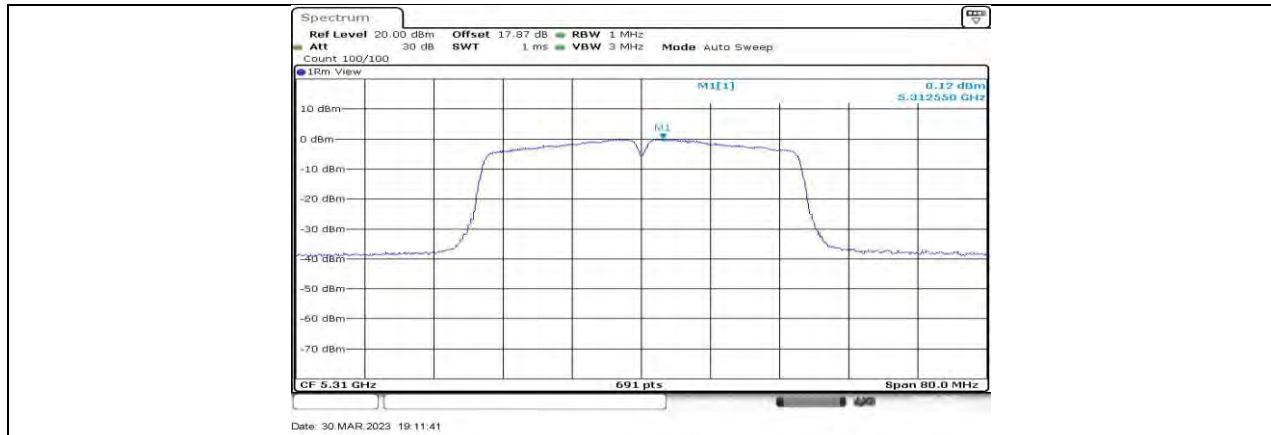
11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270



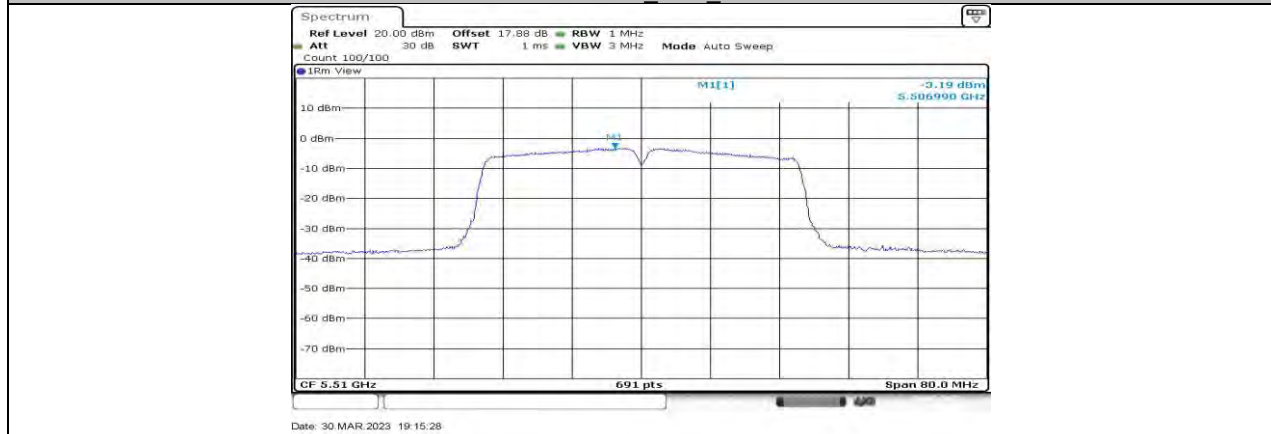
11N40MIMO_Ant1_5310



11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



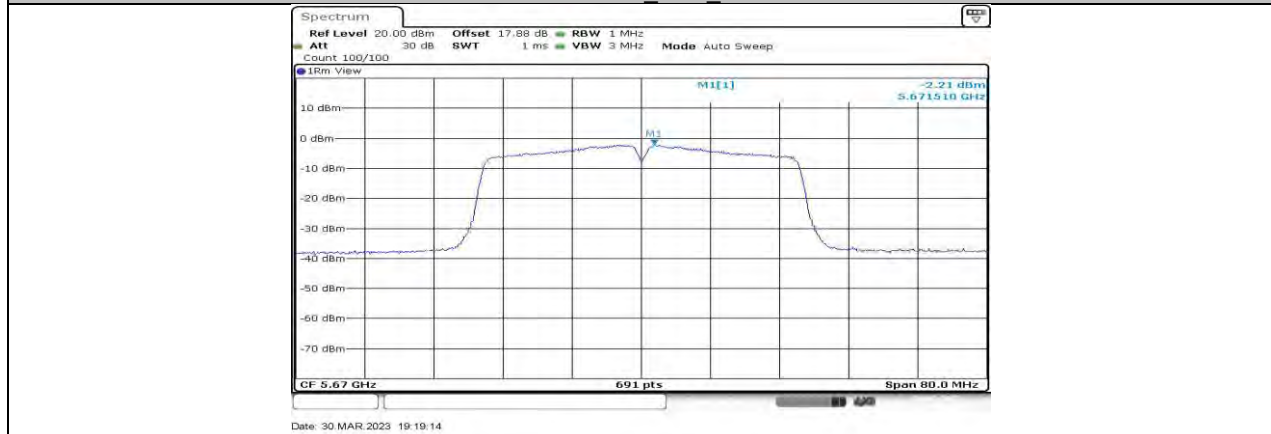
11N40MIMO_Ant2_5510



11N40MIMO_Ant1_5550



11N40MIMO_Ant2_5550



11N40MIMO_Ant1_5670



11N40MIMO_Ant2_5670



11N40MIMO_Ant1_5710_UNII-2C



11N40MIMO_Ant2_5710_UNII-2C





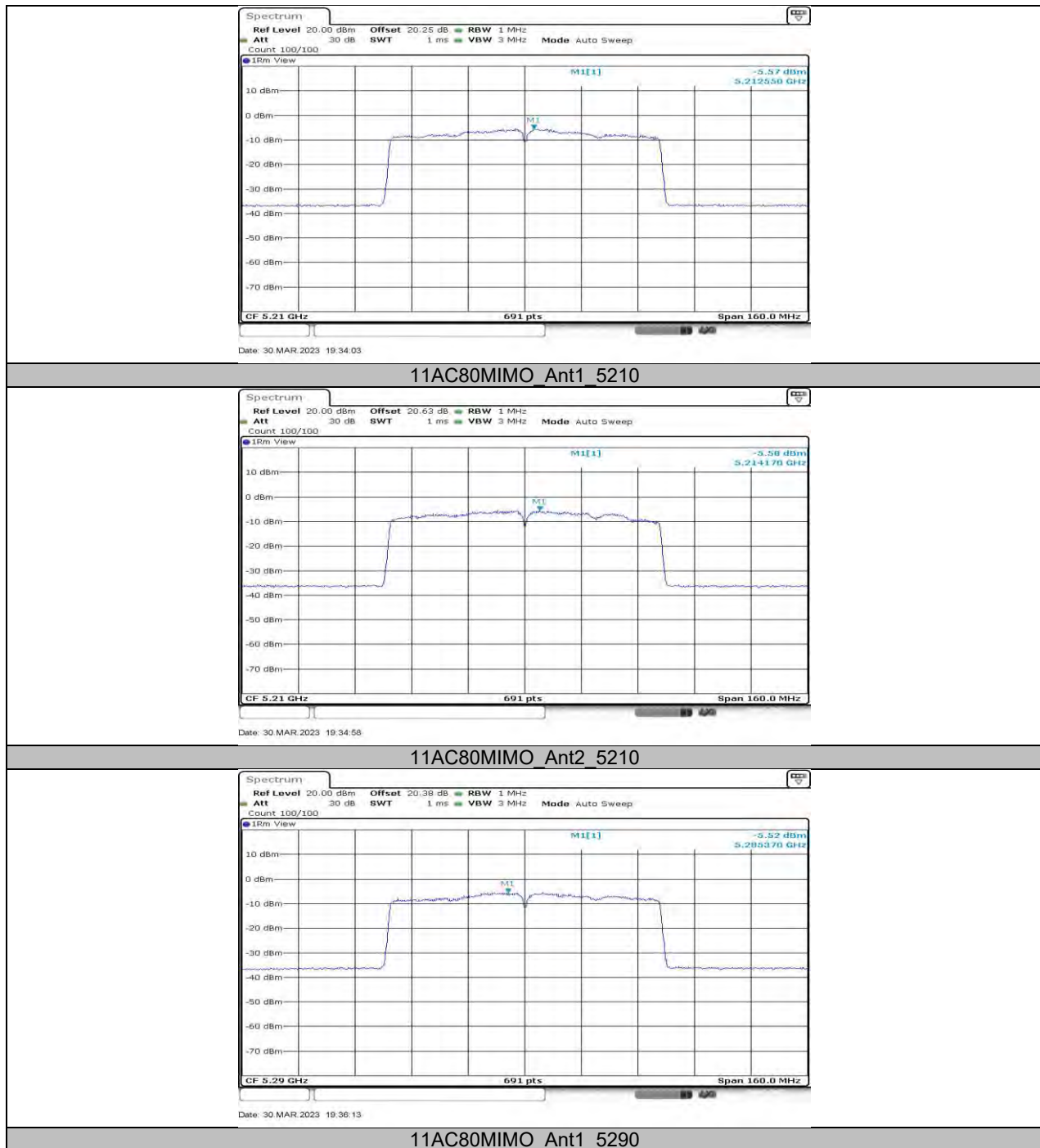
11N40MIMO_Ant2_5755

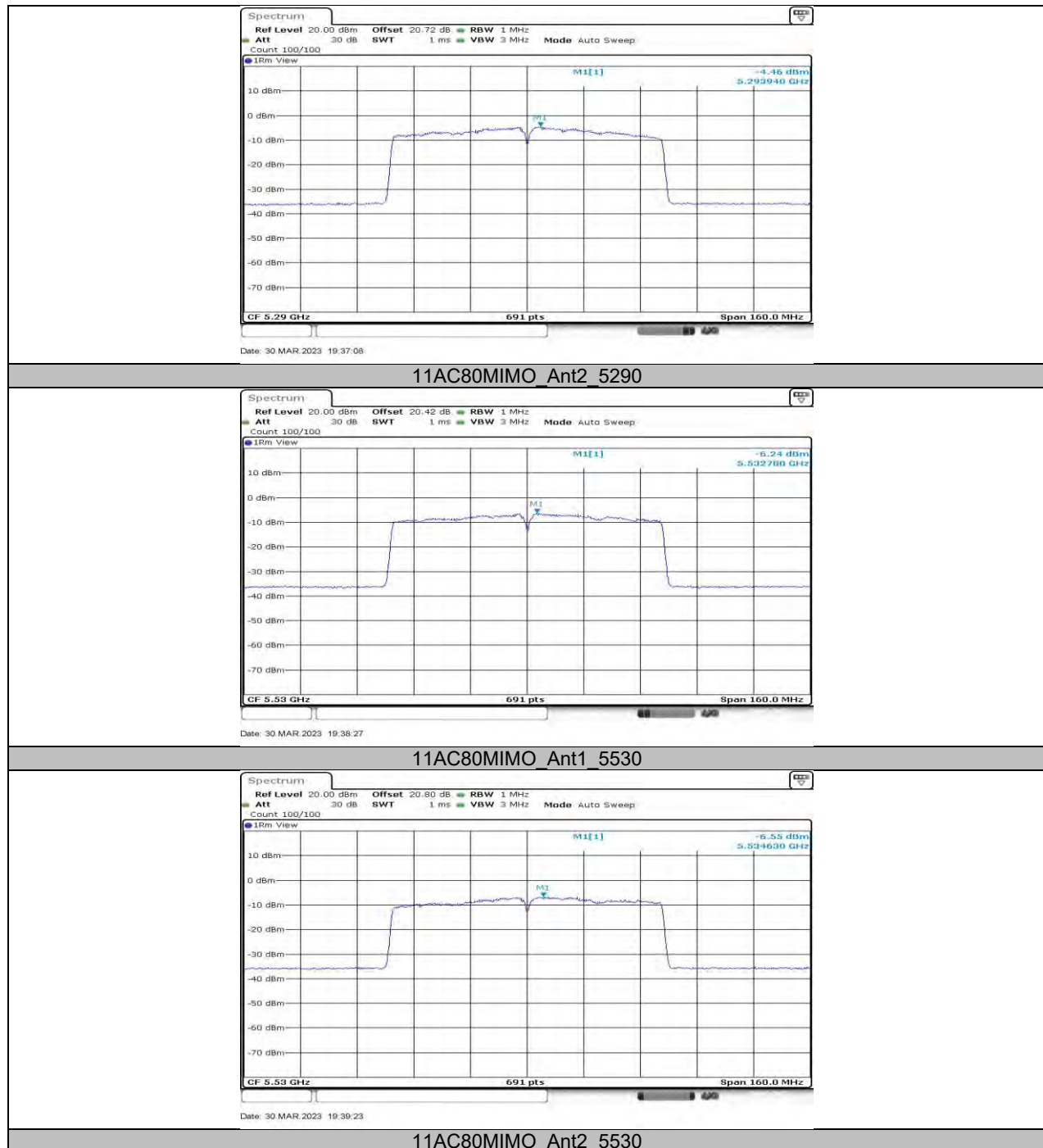


11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795







11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610



11AC80MIMO_Ant1_5690_UNII-2C



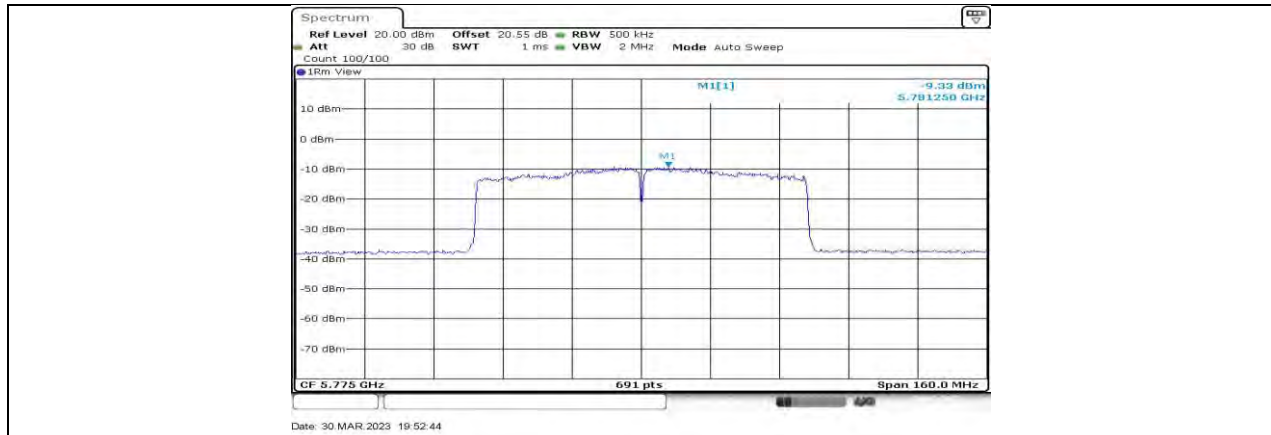
11AC80MIMO_Ant2_5690_UNII-2C



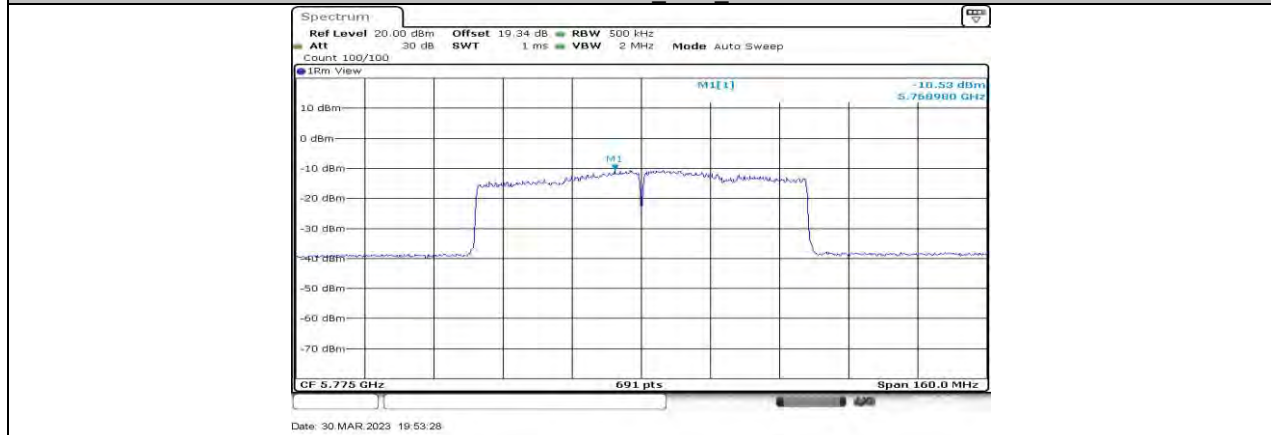
11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3



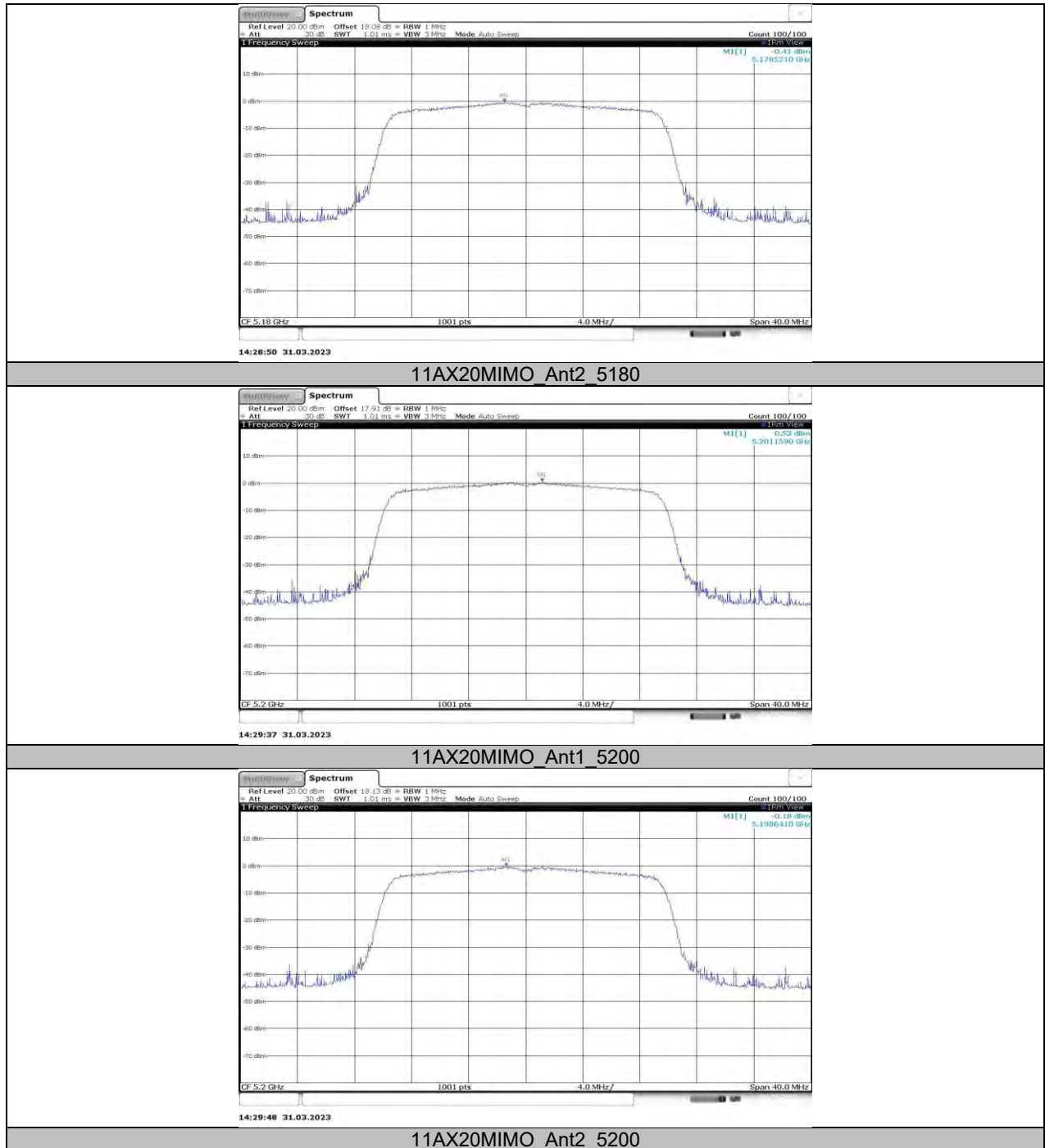
11AC80MIMO_Ant1_5775

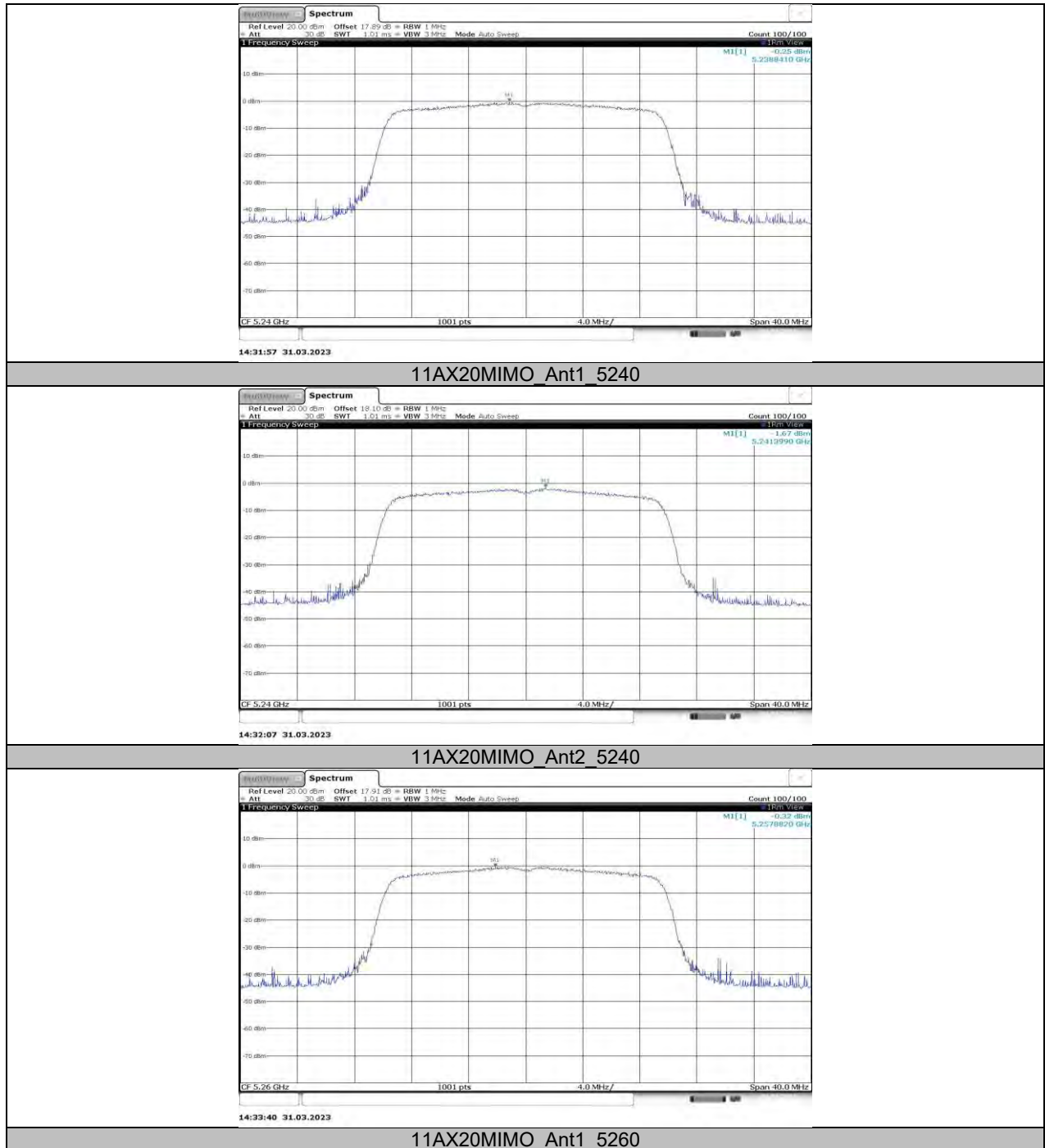


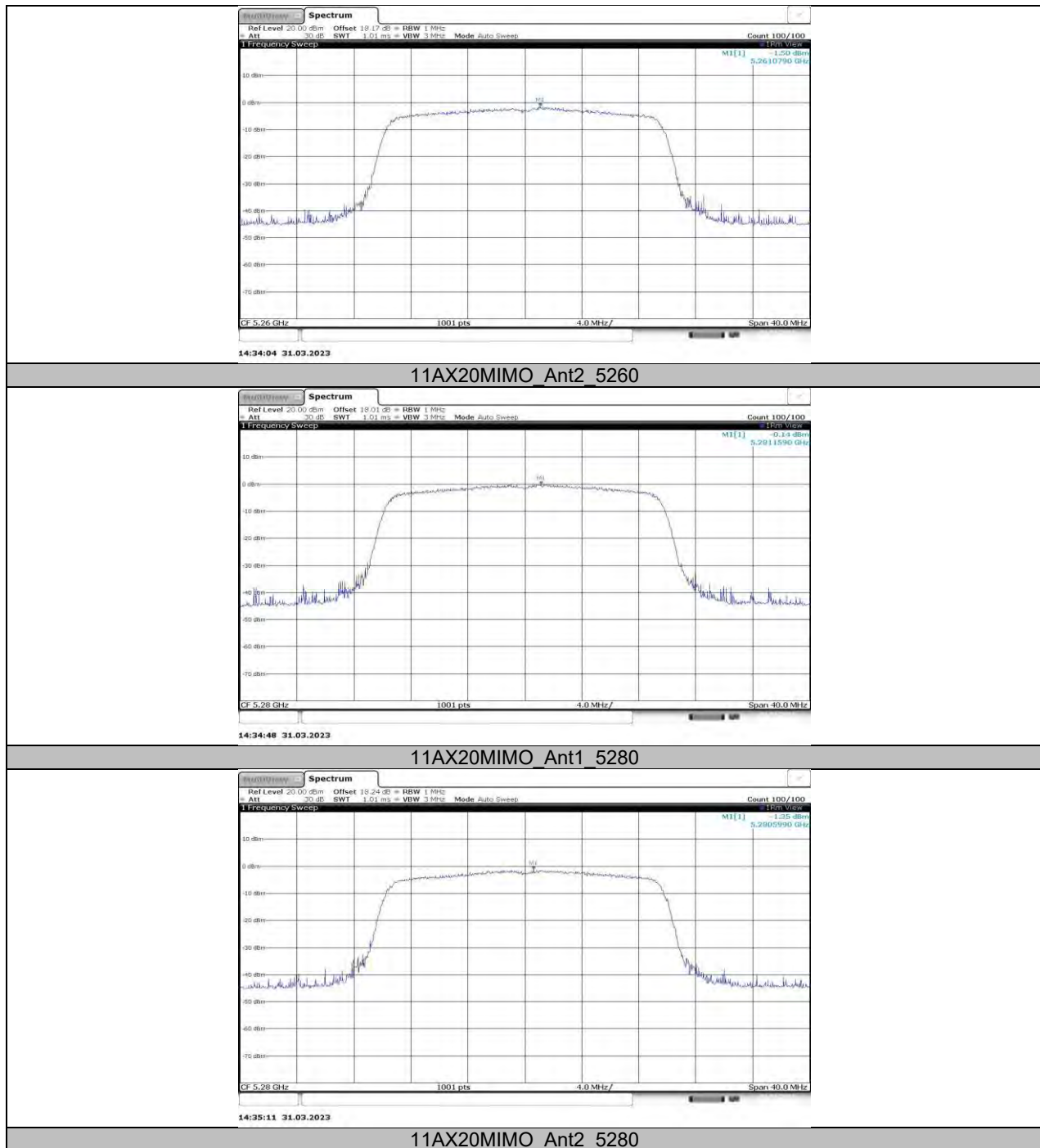
11AC80MIMO_Ant2_5775

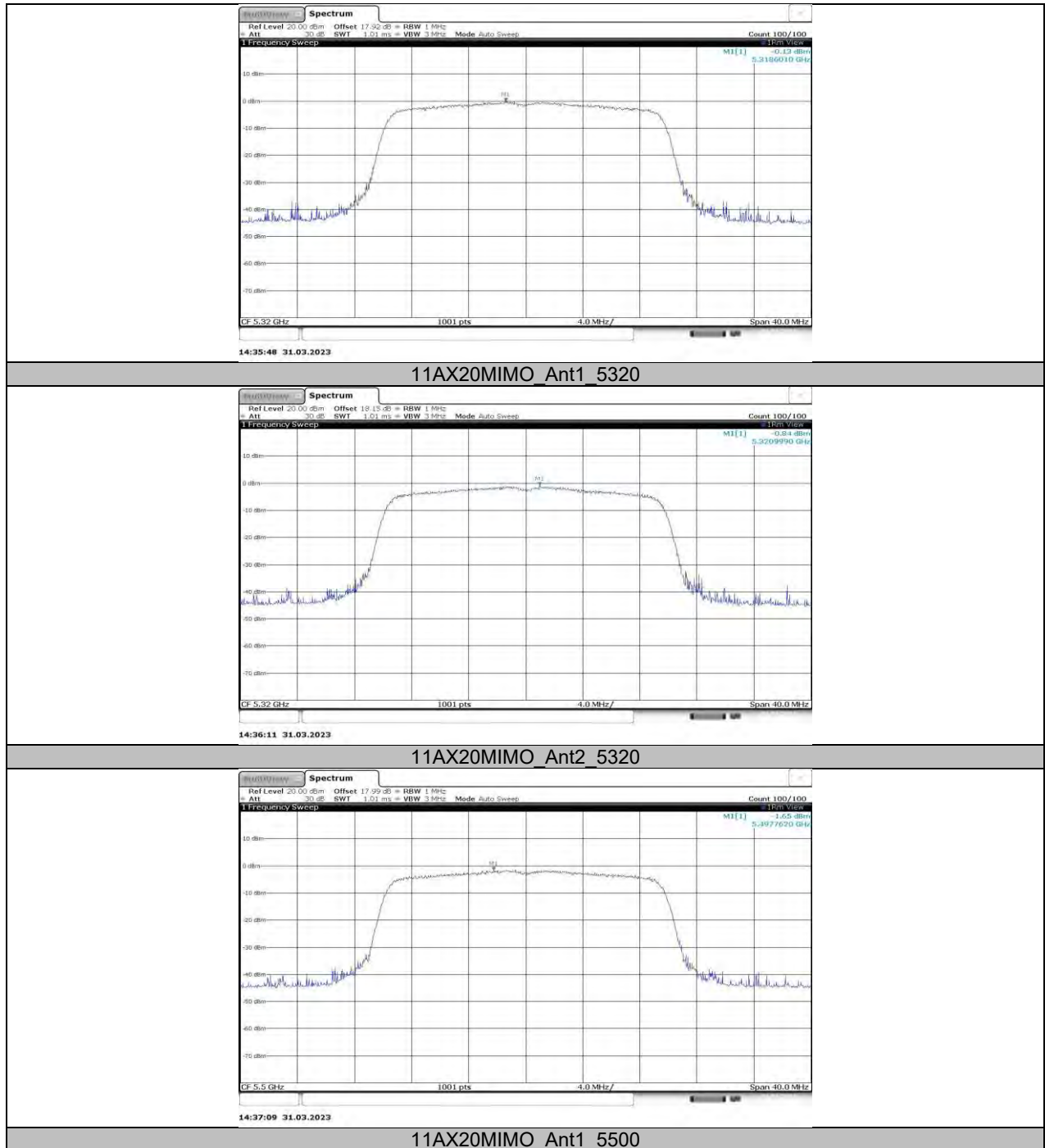


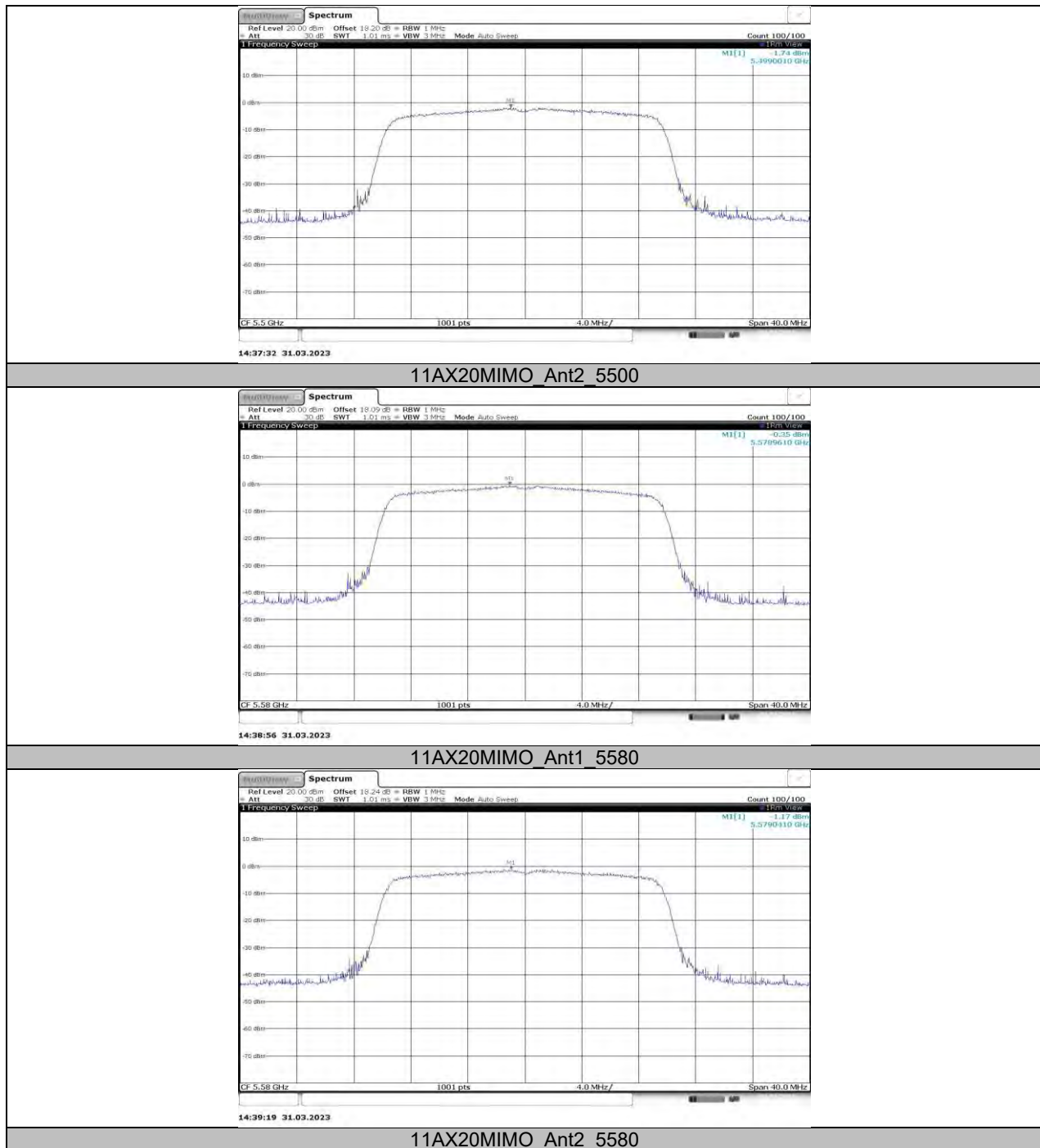
11AX20MIMO_Ant1_5180

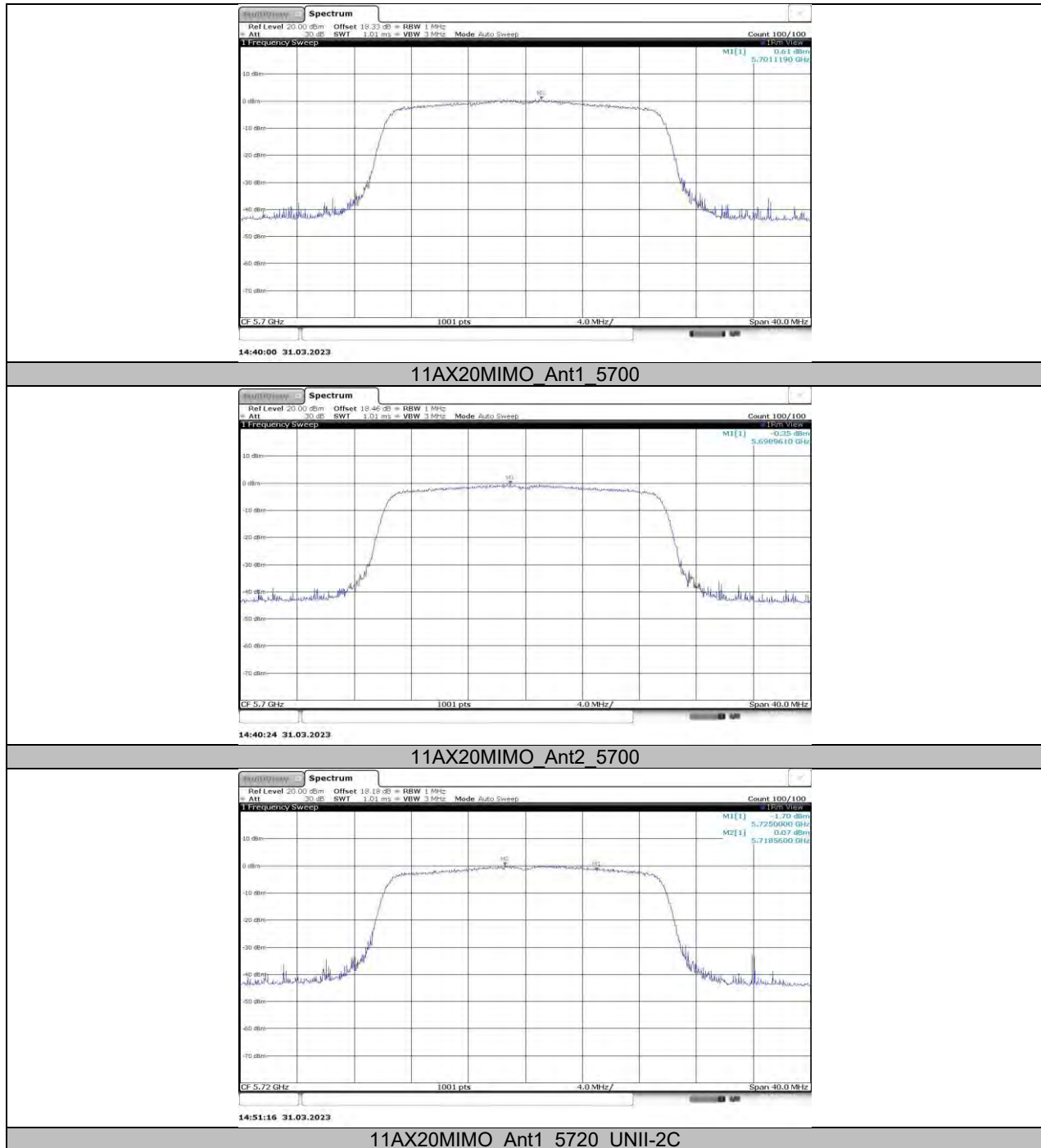


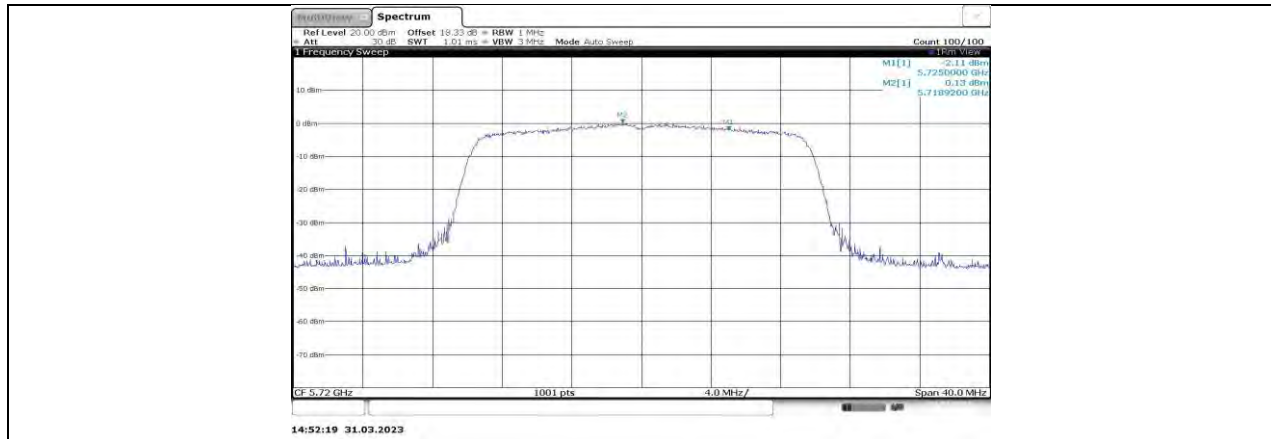




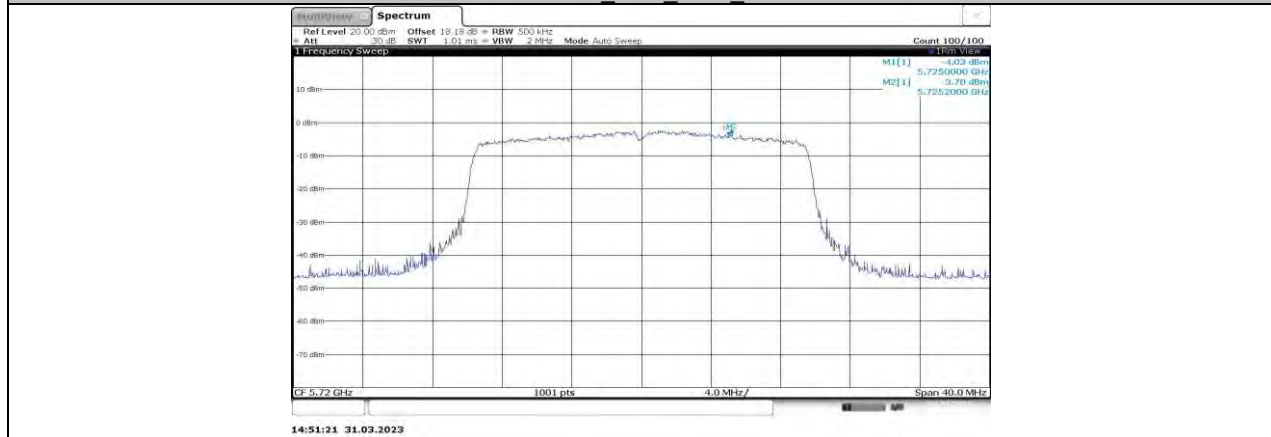




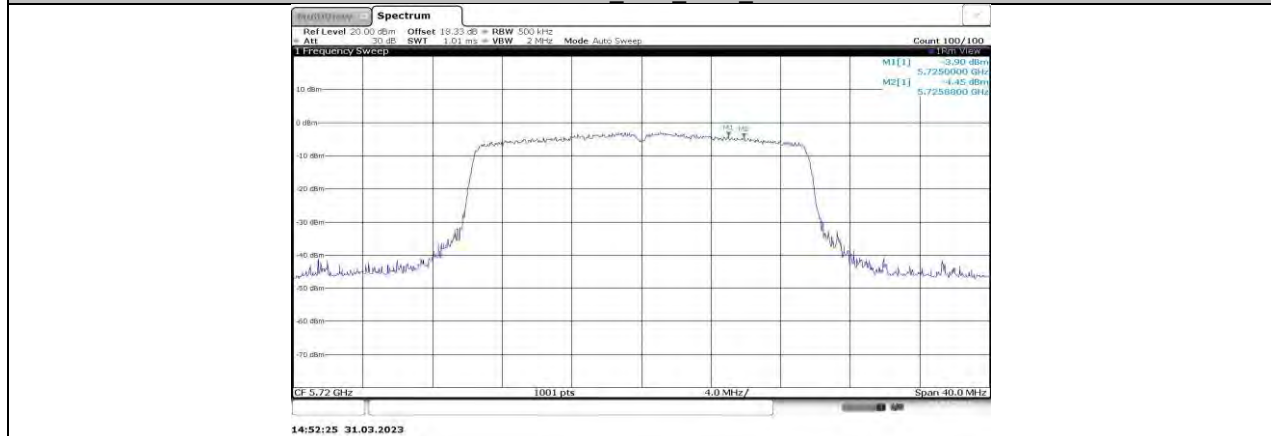




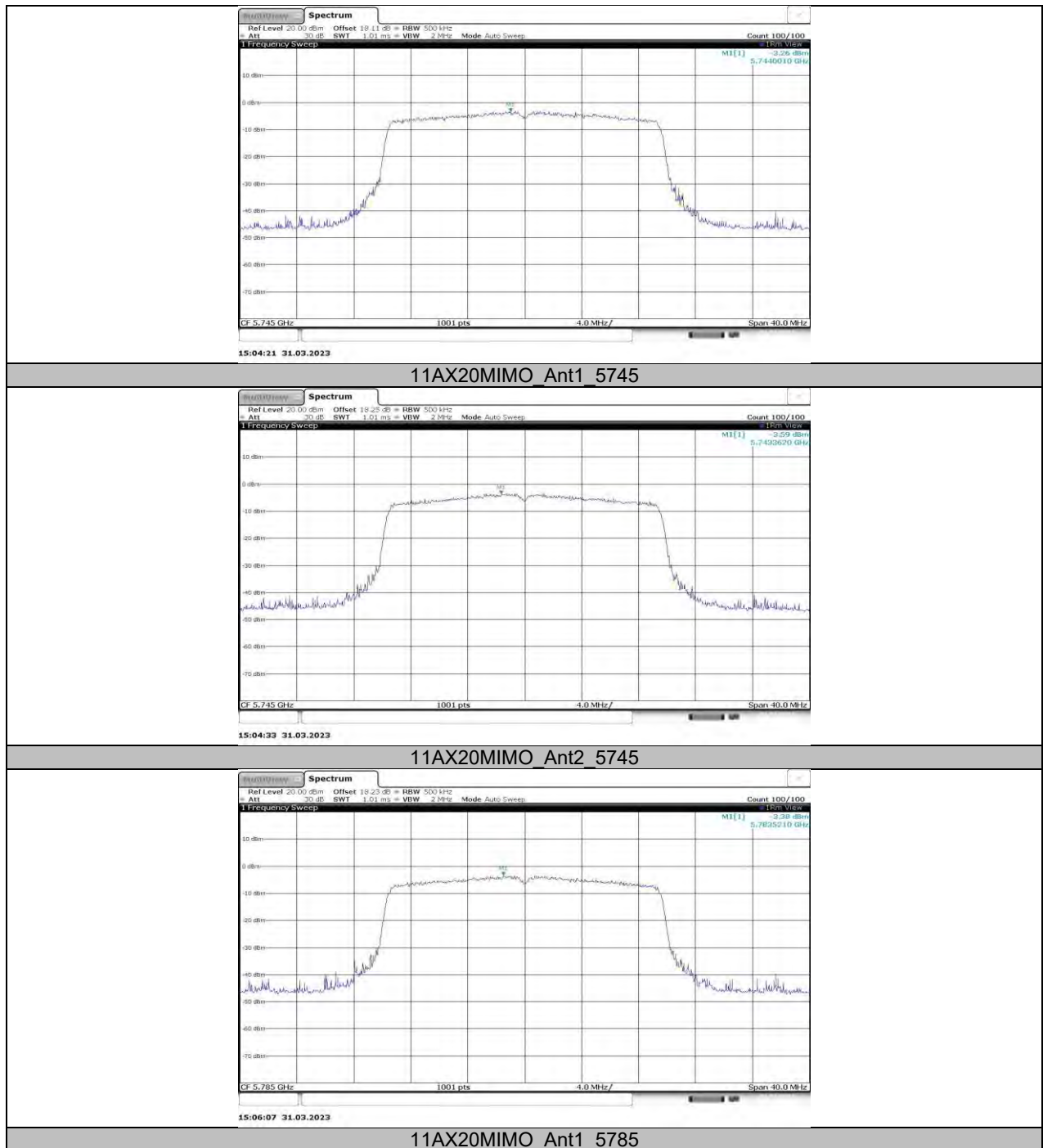
11AX20MIMO_Ant2_5720_UNII-2C

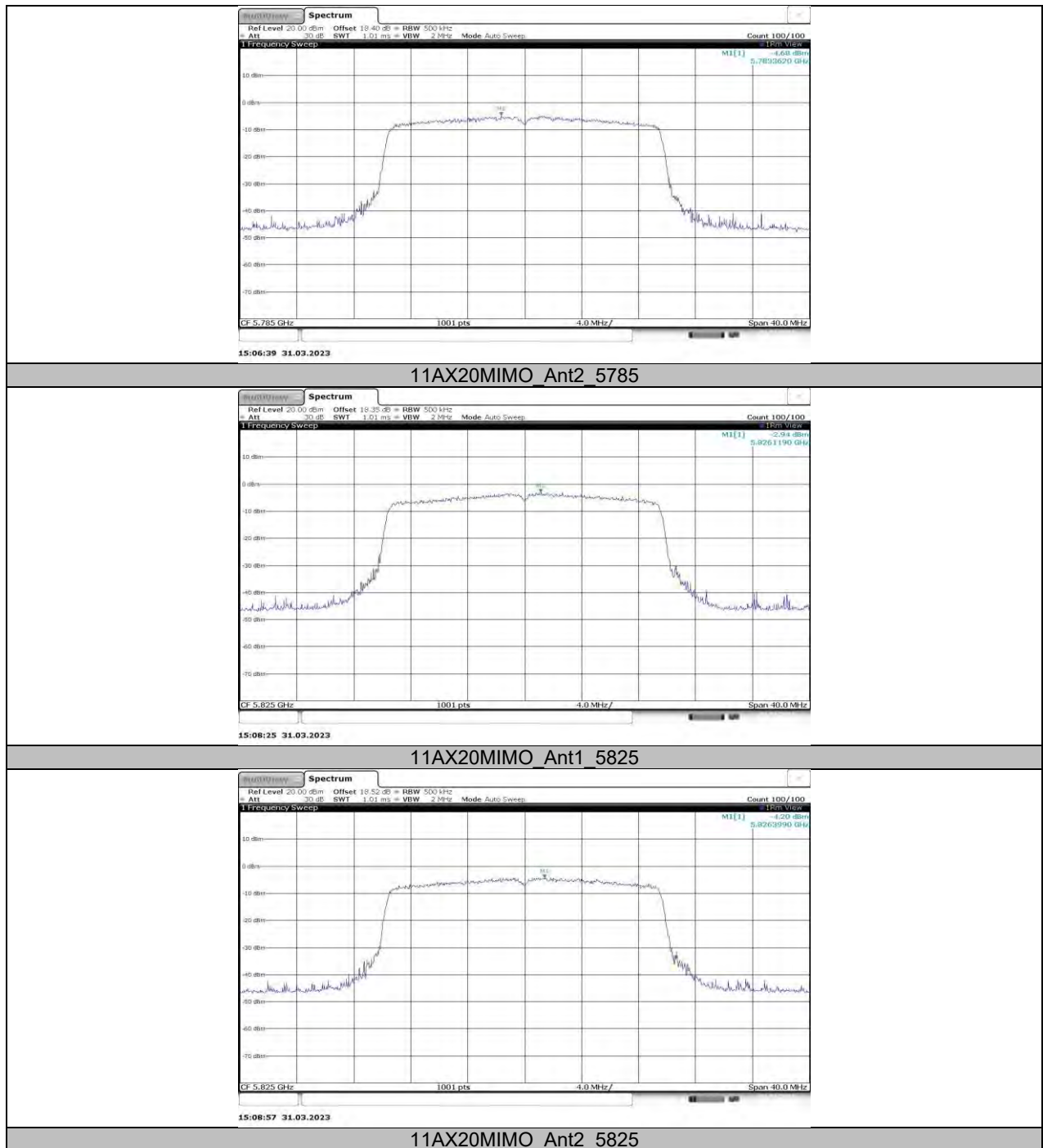


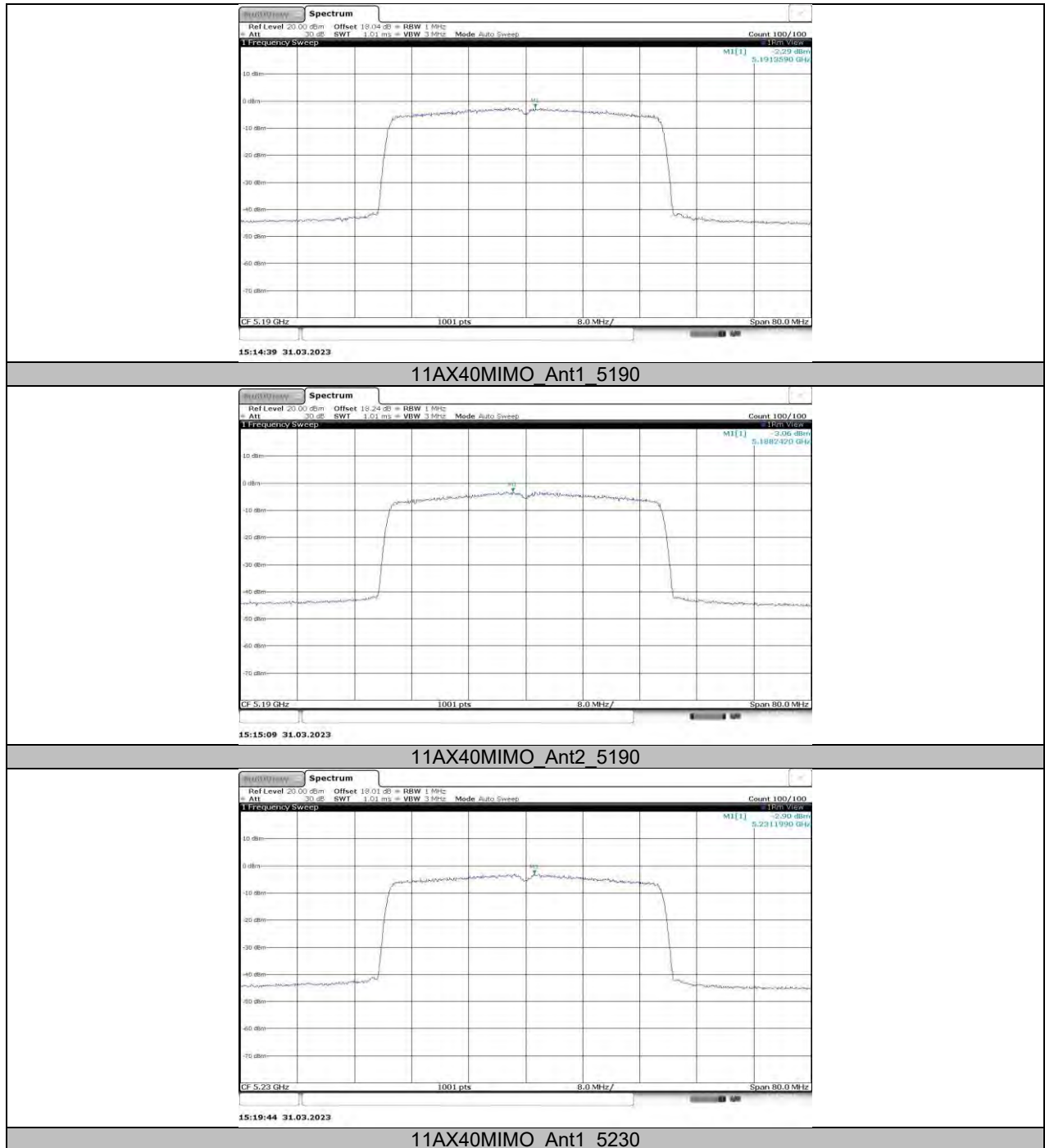
11AX20MIMO_Ant1_5720_UNII-3

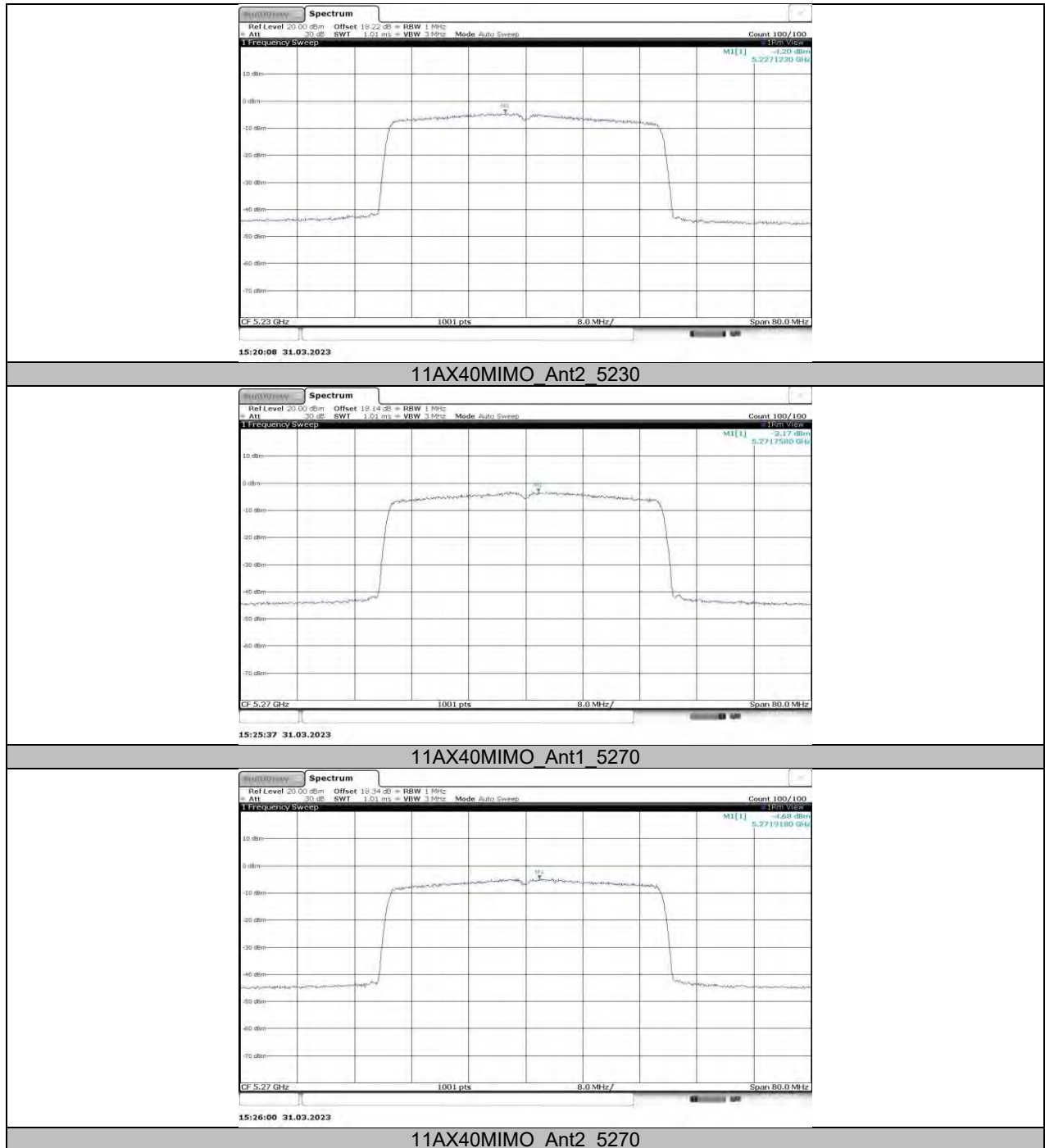


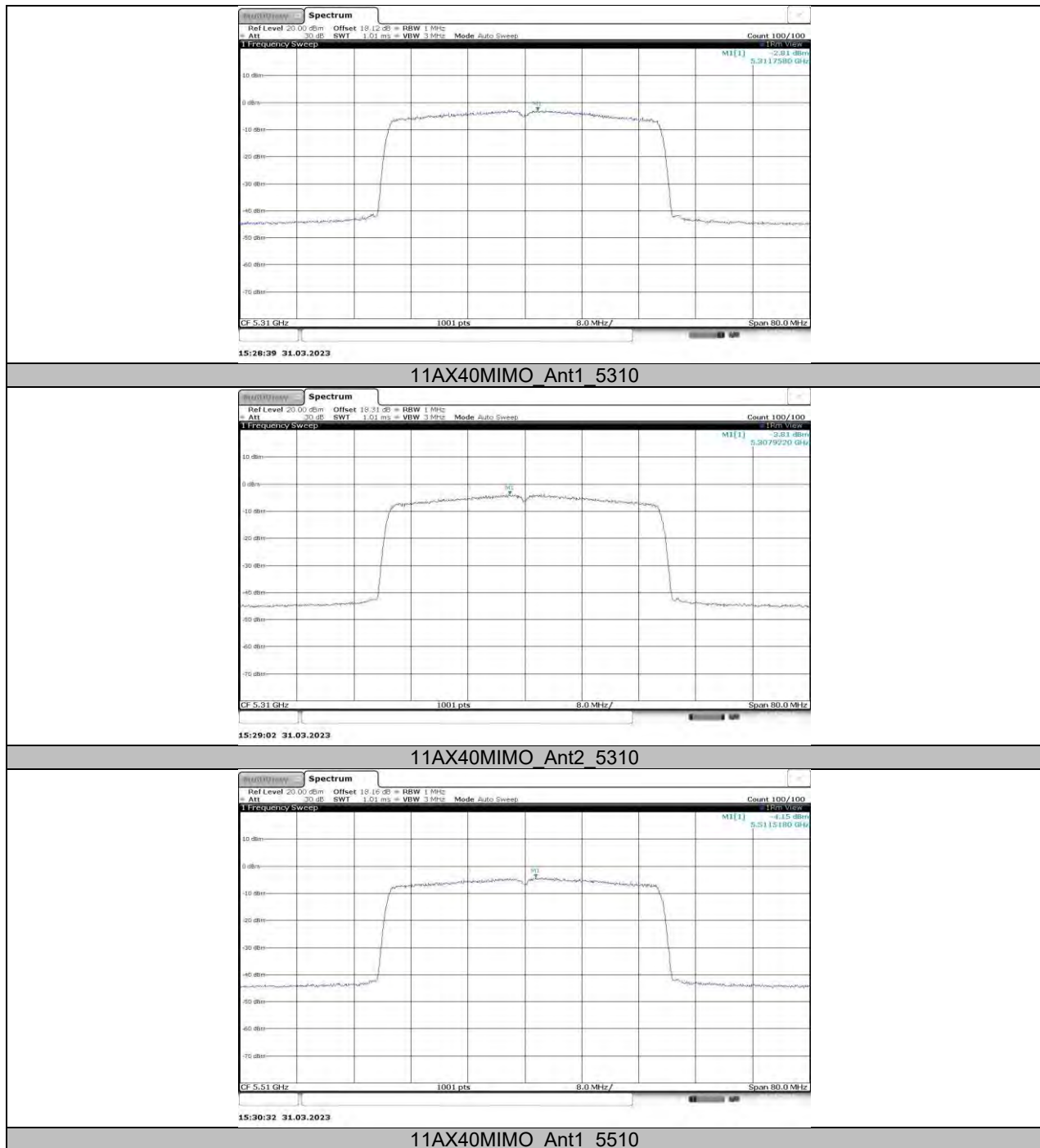
11AX20MIMO_Ant2_5720_UNII-3

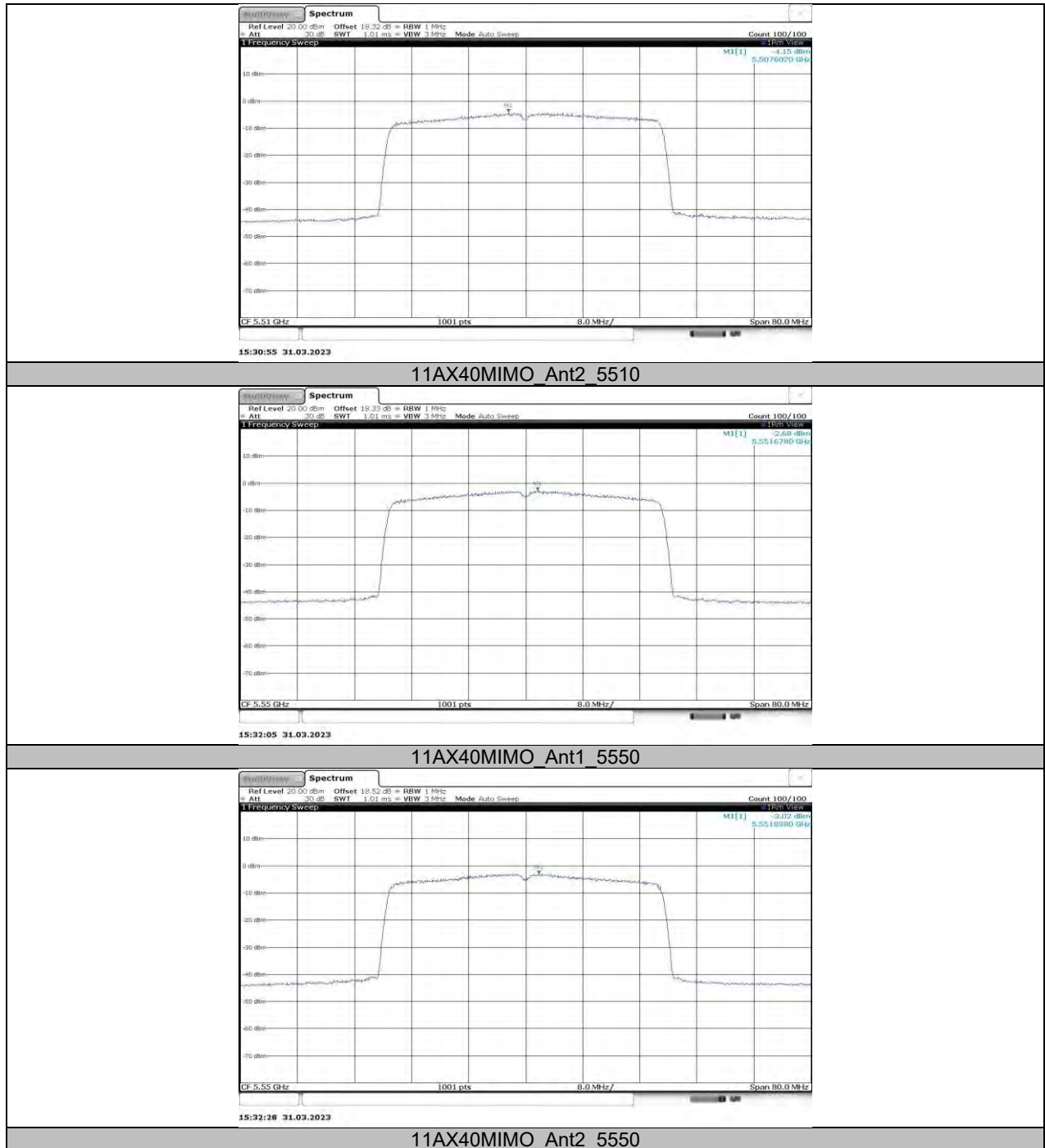


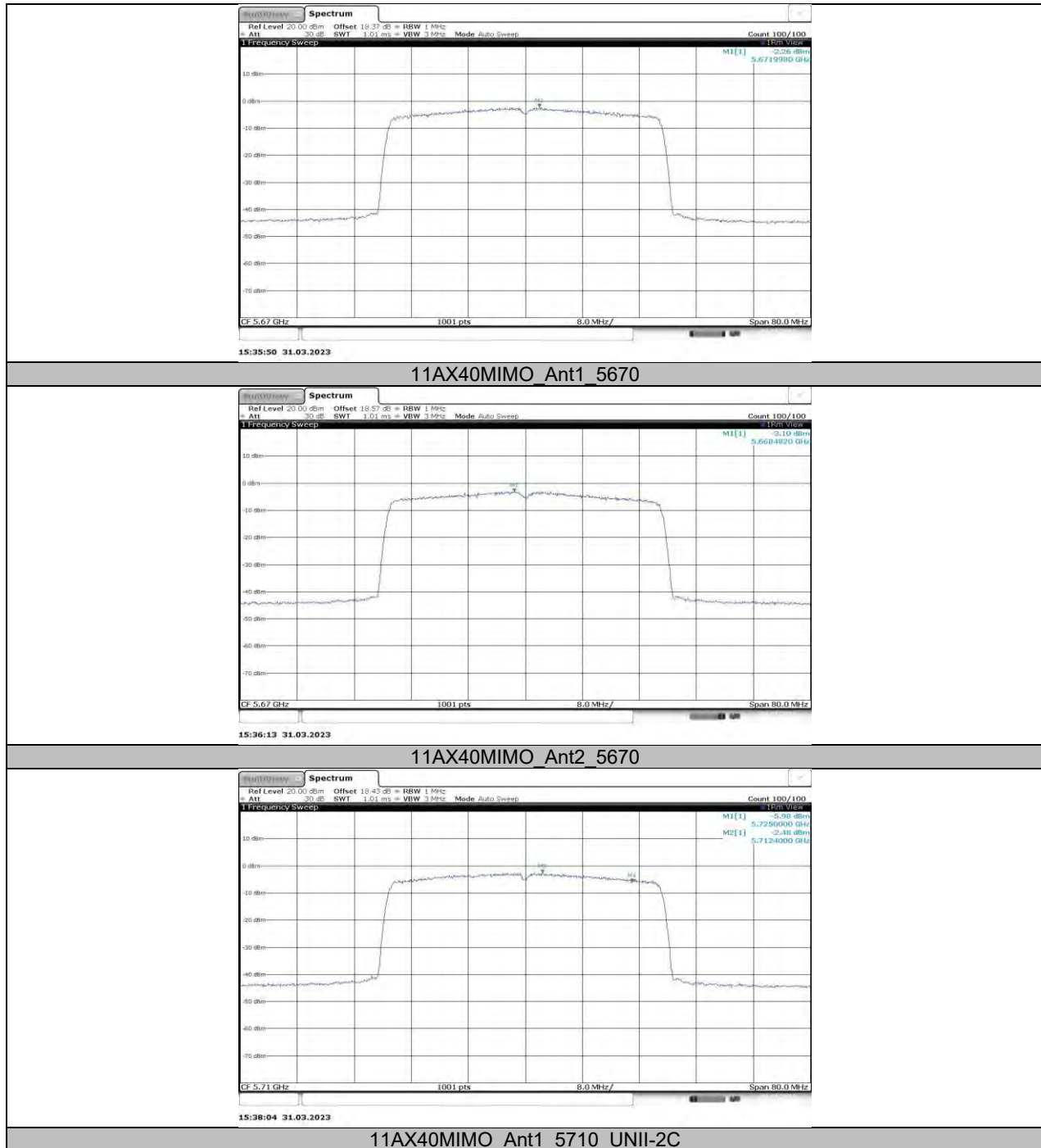






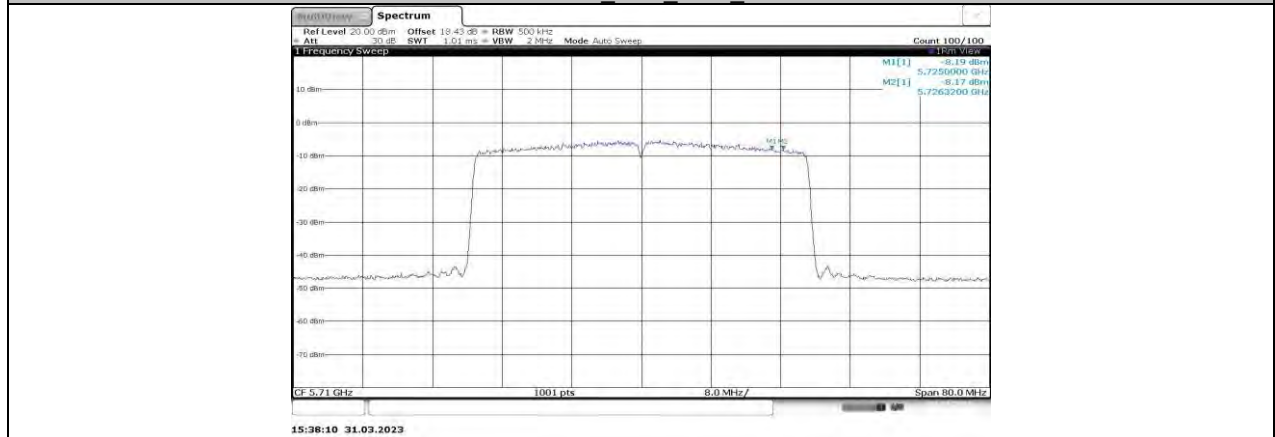




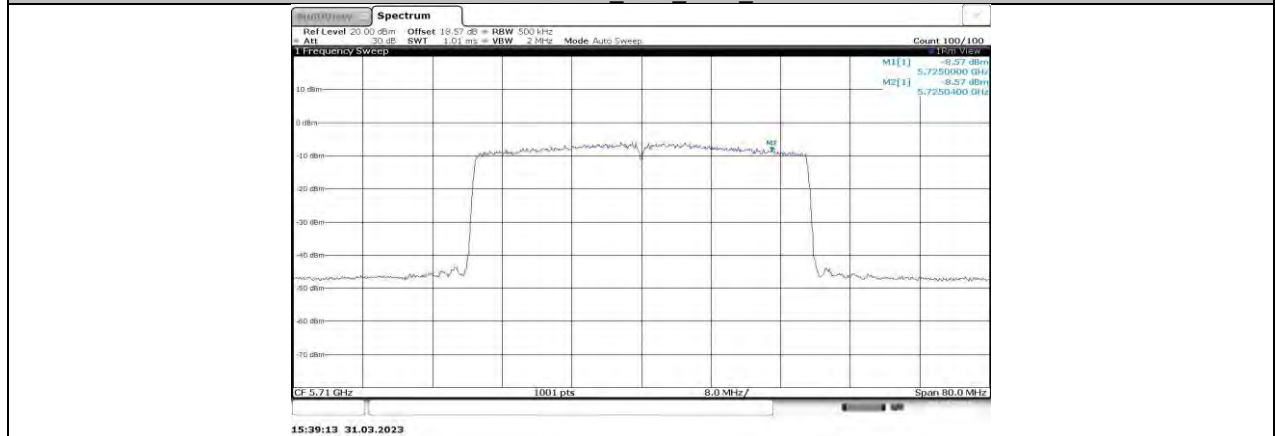




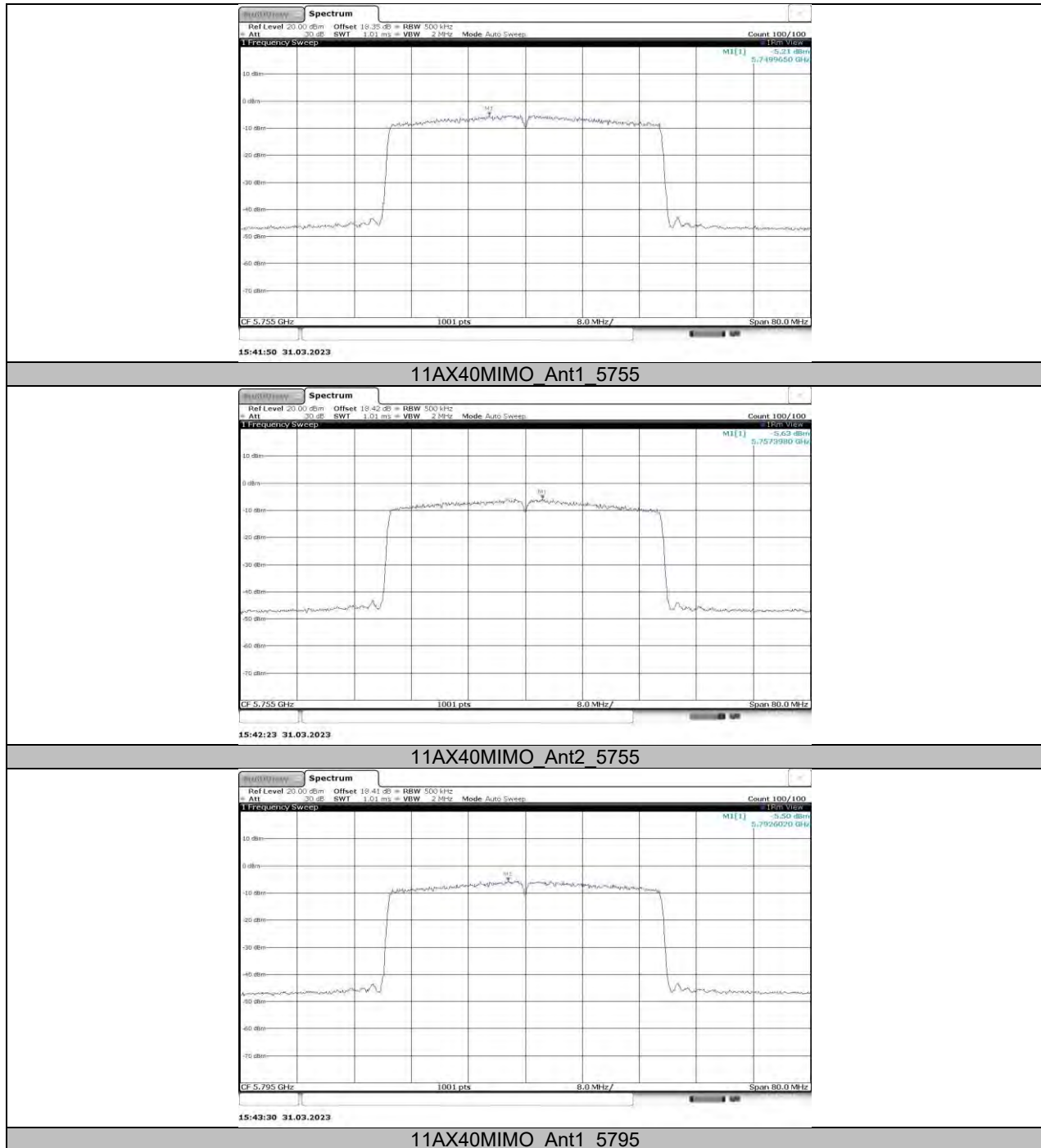
11AX40MIMO_Ant2_5710_UNII-2C

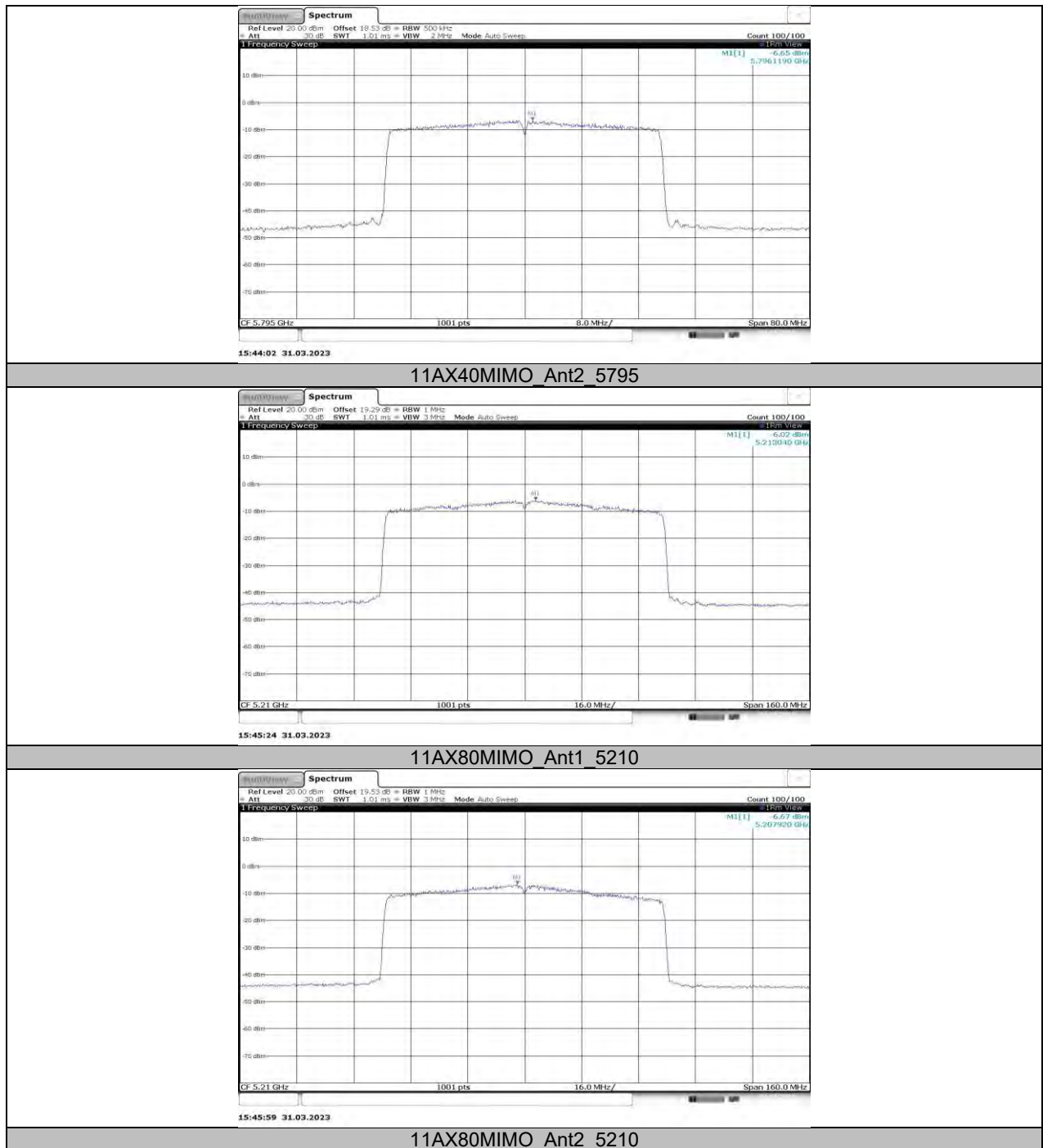


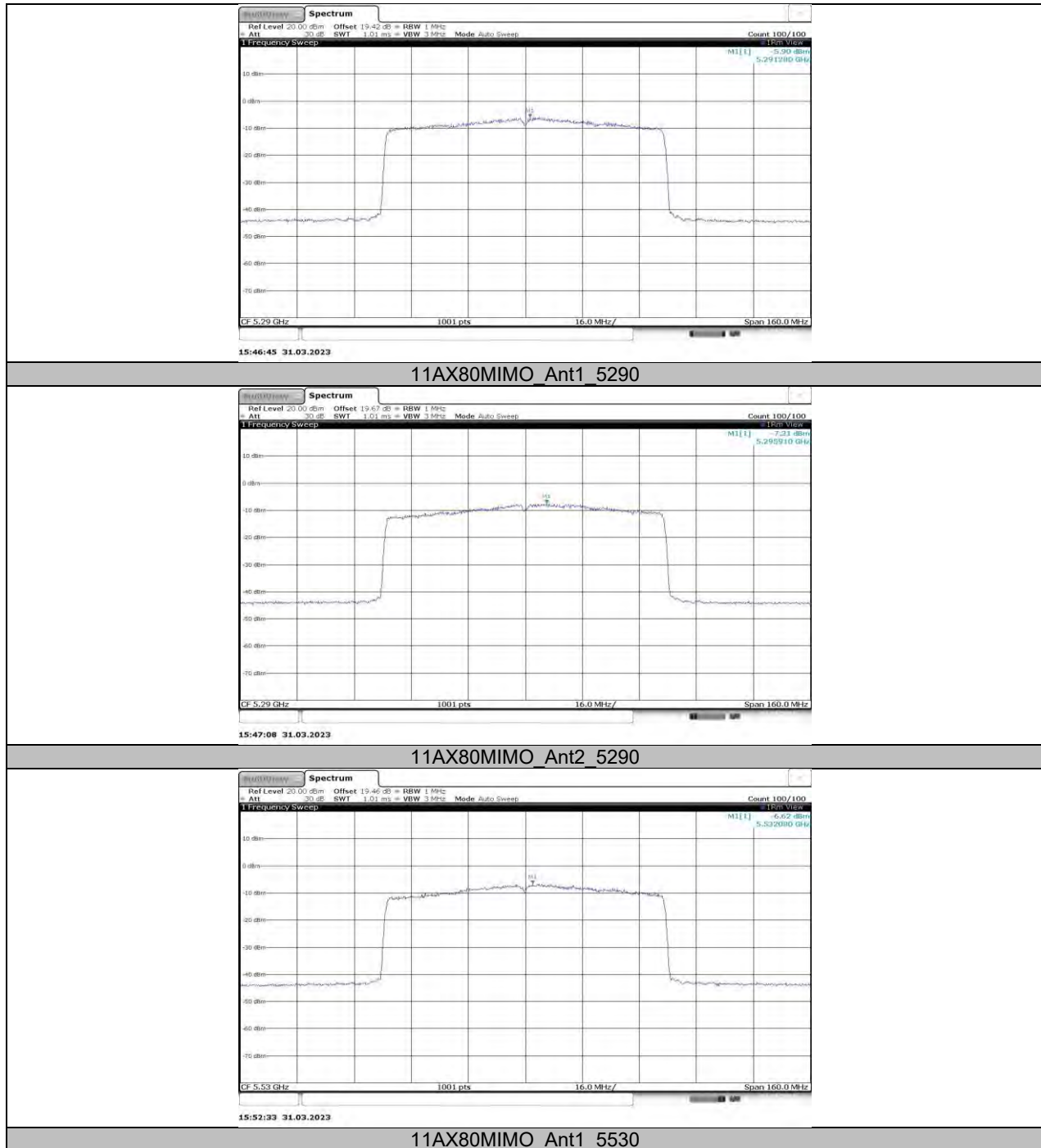
11AX40MIMO_Ant1_5710_UNII-3

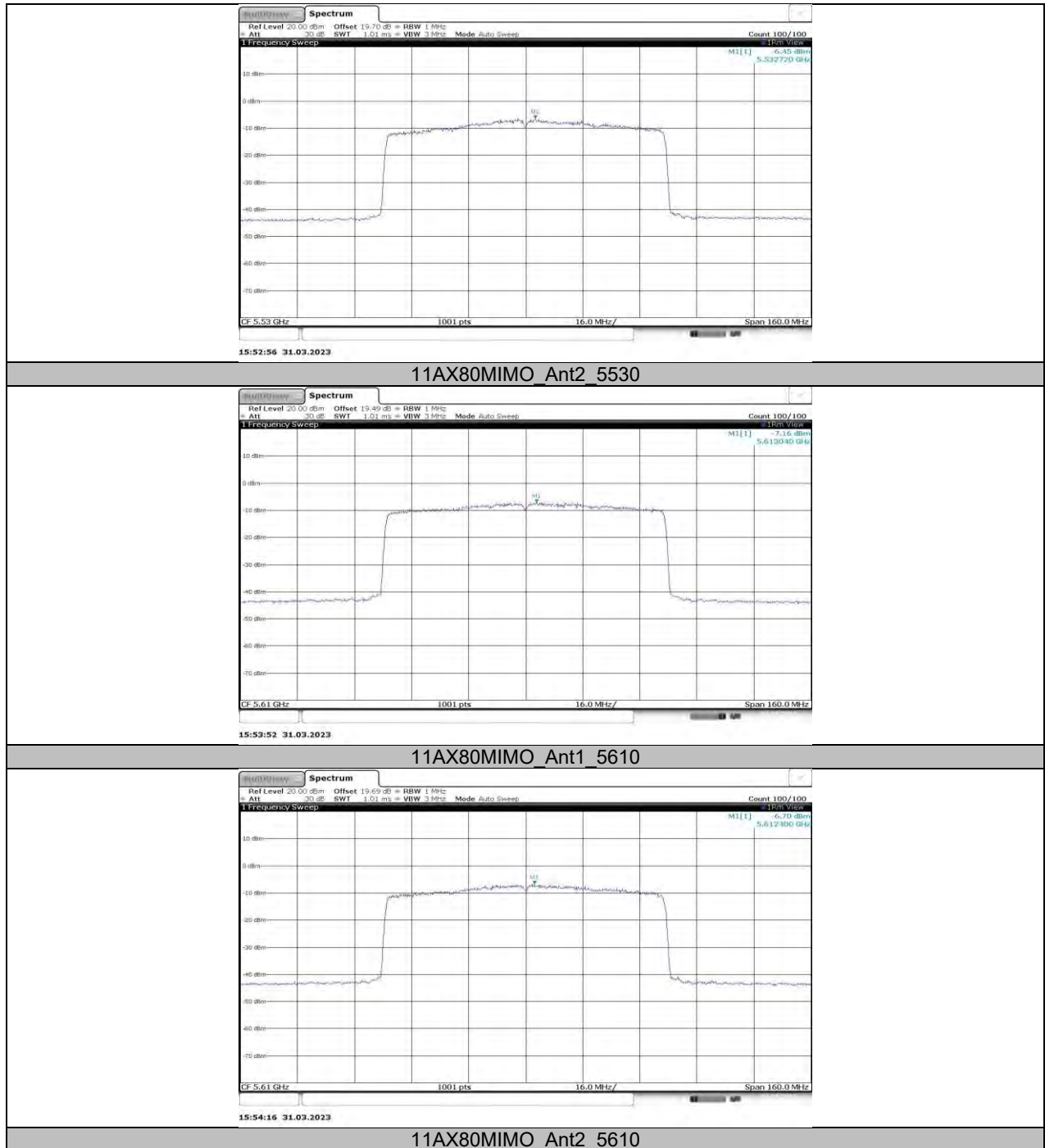


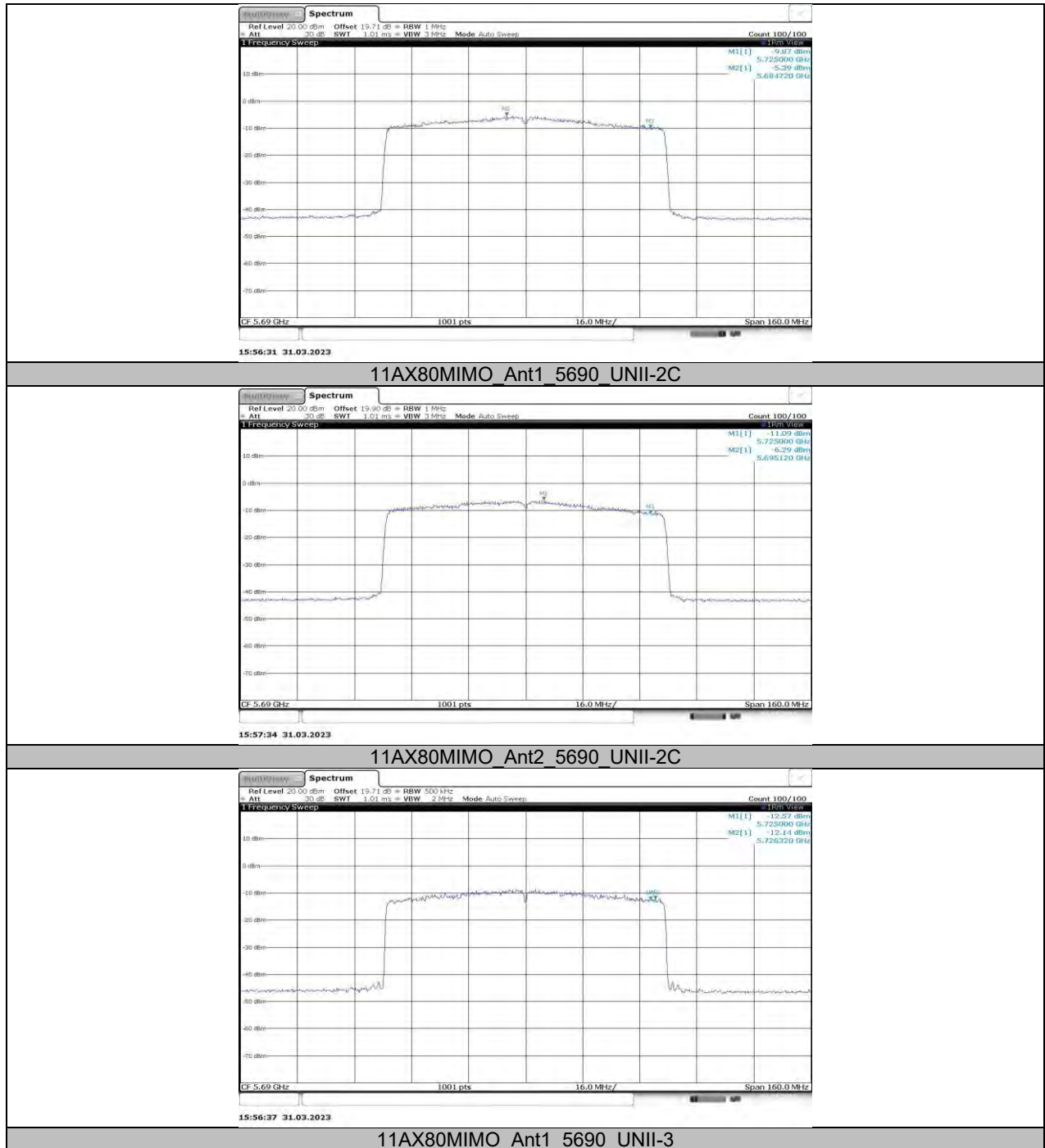
11AX40MIMO_Ant2_5710_UNII-3

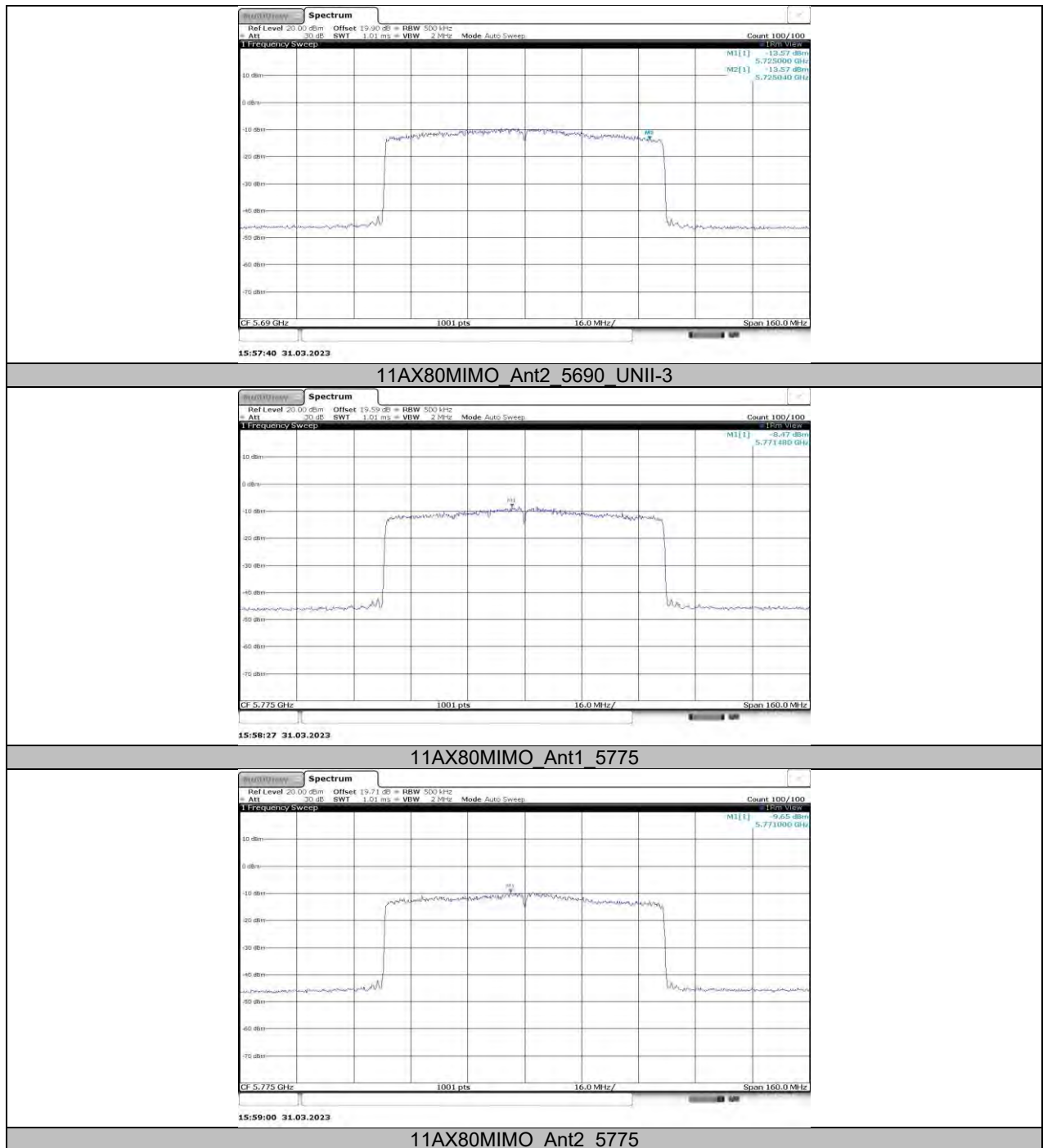












11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a20:5180MHz									
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	5180.0157	3.04	5179.9845	-2.99	5180.0021	0.40	5180.0229	4.42
TN	VN	5179.9852	-2.85	5179.9786	-4.12	5179.9921	-1.52	5179.9997	-0.05
TN	VH	5180.0045	0.87	5180.0099	1.91	5179.9970	-0.58	5179.9771	-4.41
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	5180.0080	1.55	5180.0022	0.42	5180.0104	2.01	5179.9988	-0.23
60	VN	5179.9802	-3.82	5180.0128	2.47	5180.0198	3.83	5180.0106	2.04
50	VN	5180.0091	1.76	5179.9978	-0.43	5179.9769	-4.45	5179.9759	-4.66
40	VN	5179.9889	-2.14	5180.0174	3.37	5179.9982	-0.36	5179.9940	-1.15
30	VN	5179.9816	-3.56	5180.0133	2.57	5180.0240	4.63	5180.0185	3.57
20	VN	5179.9917	-1.61	5179.9780	-4.25	5180.0159	3.06	5180.0024	0.45
10	VN	5180.0086	1.67	5179.9888	-2.16	5179.9852	-2.86	5179.9874	-2.43
0	VN	5179.9835	-3.18	5179.9951	-0.94	5179.9805	-3.75	5179.9807	-3.73

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.

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	5824.9832	-2.89	5824.9965	-0.60	5825.0122	2.09	5824.9831	-2.90
TN	VN	5824.9772	-3.91	5824.9981	-0.33	5825.0141	2.41	5825.0039	0.67
TN	VH	5824.9763	-4.07	5824.9834	-2.85	5825.0133	2.29	5825.0145	2.48
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	5824.9864	-2.33	5824.9915	-1.46	5824.9788	-3.64	5824.9778	-3.81
60	VN	5824.9826	-2.98	5824.9811	-3.24	5825.0030	0.51	5825.0034	0.58
50	VN	5824.9900	-1.71	5825.0096	1.64	5825.0074	1.27	5824.9980	-0.34
40	VN	5825.0087	1.50	5824.9875	-2.15	5824.9835	-2.83	5825.0248	4.26
30	VN	5824.9887	-1.95	5824.9903	-1.67	5824.9956	-0.75	5825.0126	2.17
20	VN	5825.0030	0.52	5824.9866	-2.30	5825.0208	3.57	5825.0212	3.64
10	VN	5825.0140	2.40	5824.9785	-3.69	5825.0212	3.64	5824.9785	-3.68
0	VN	5824.9917	-1.42	5824.9882	-2.03	5824.9963	-0.64	5824.9836	-2.82

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 10 TEST ENVIRONMENT.

11.7. APPENDIX G: 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	1.39	1.76	0.7898	78.98	1.02	0.72	1
11N20MIMO	1.28	1.66	0.7711	77.11	1.13	0.78	1
11N40MIMO	0.64	1.00	0.6400	64.00	1.94	1.56	2
11AC80MIMO	0.19	0.55	0.3455	34.55	4.62	5.26	6
11AX20MIMO	1.03	1.43	0.7203	72.03	1.42	0.97	1
11AX40MIMO	0.56	0.98	0.5714	57.14	2.43	1.79	2
11AX80MIMO	0.31	0.72	0.4306	43.06	3.66	3.23	4

Note:

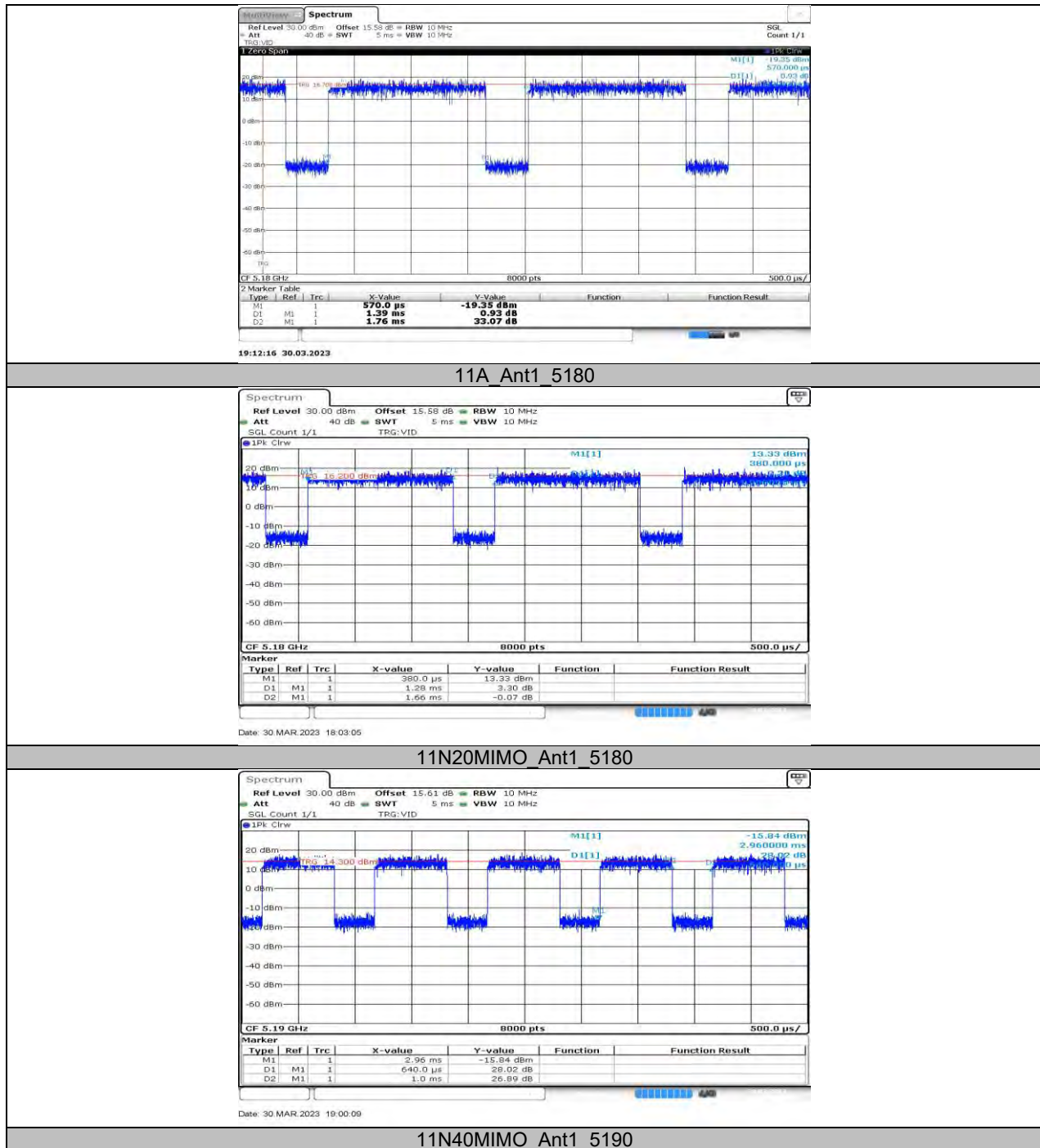
Duty Cycle Correction Factor=10log (1/x).

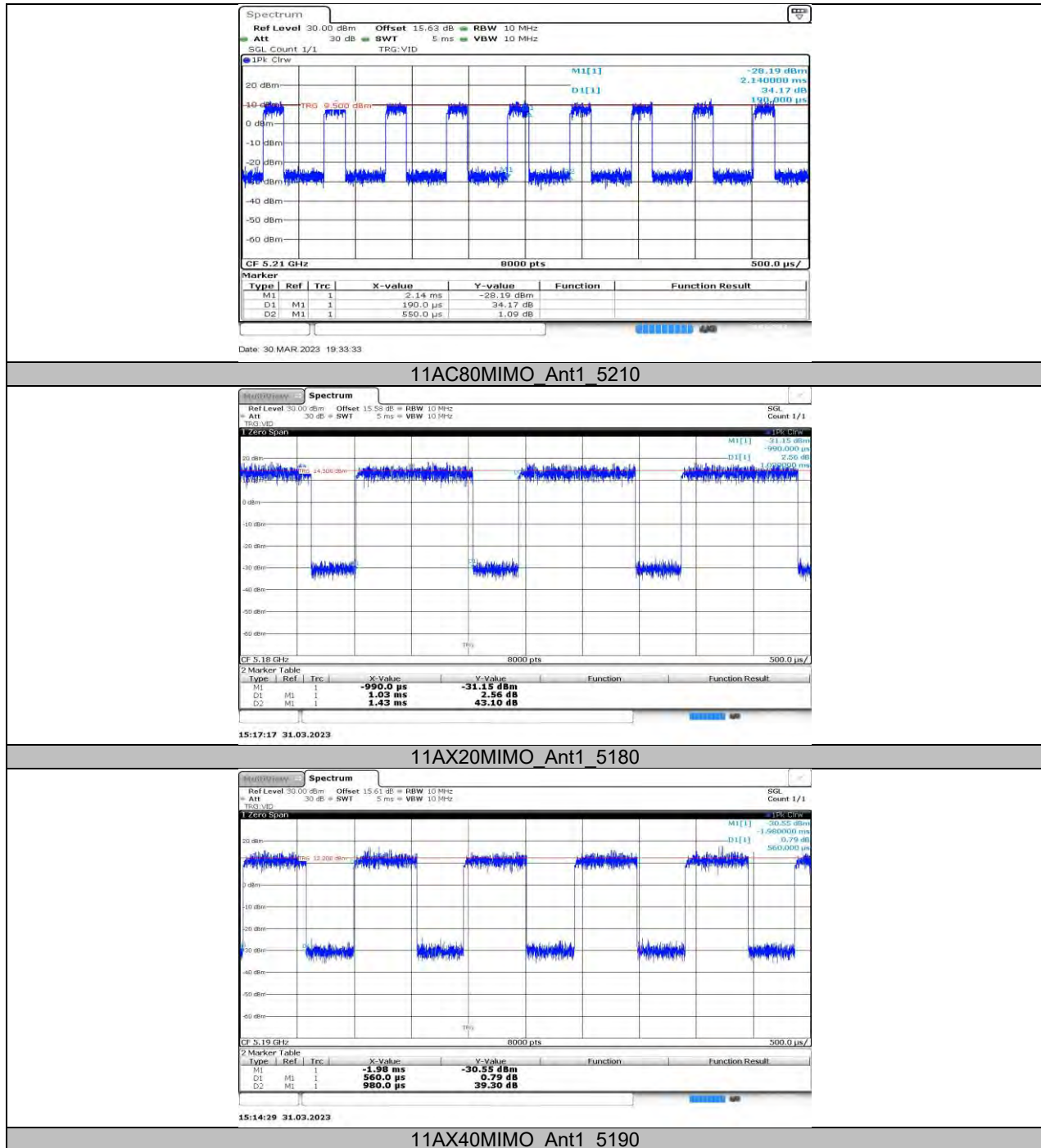
Where: x is Duty Cycle (Linear)

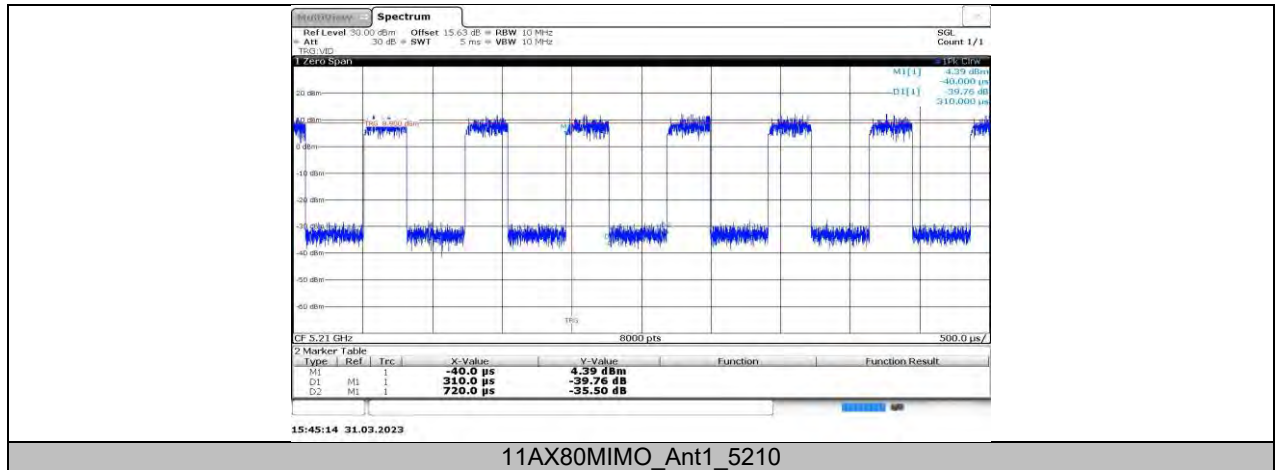
Where: T is On Time

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

11.7.2. Test Graphs





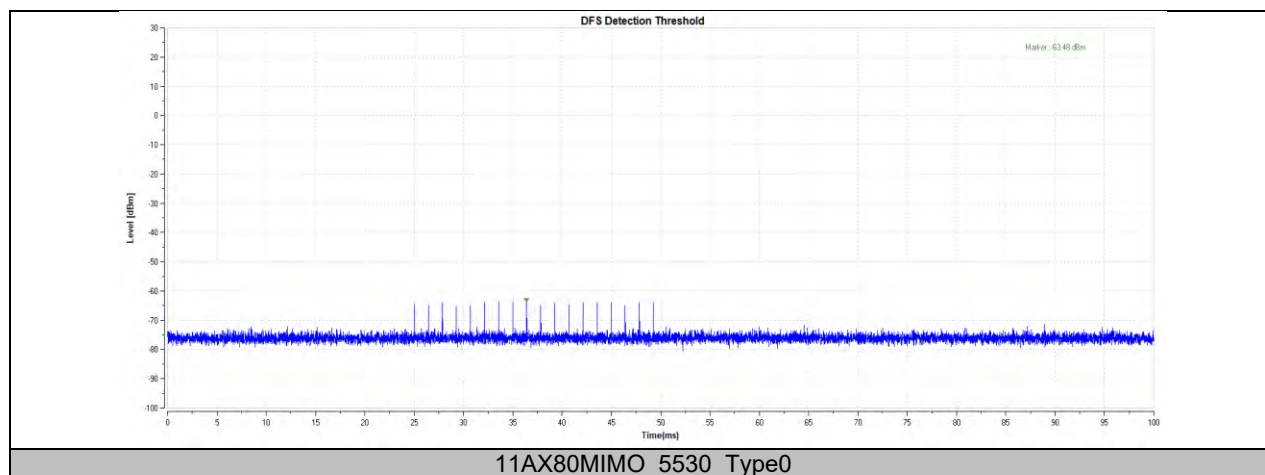


11.8. APPENDIX H: DFS DETECTION THRESHOLDS

11.8.1. Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AX80MIMO	5530	Type0	-63.48	-58.55	PASS

11.8.2. Test Graphs

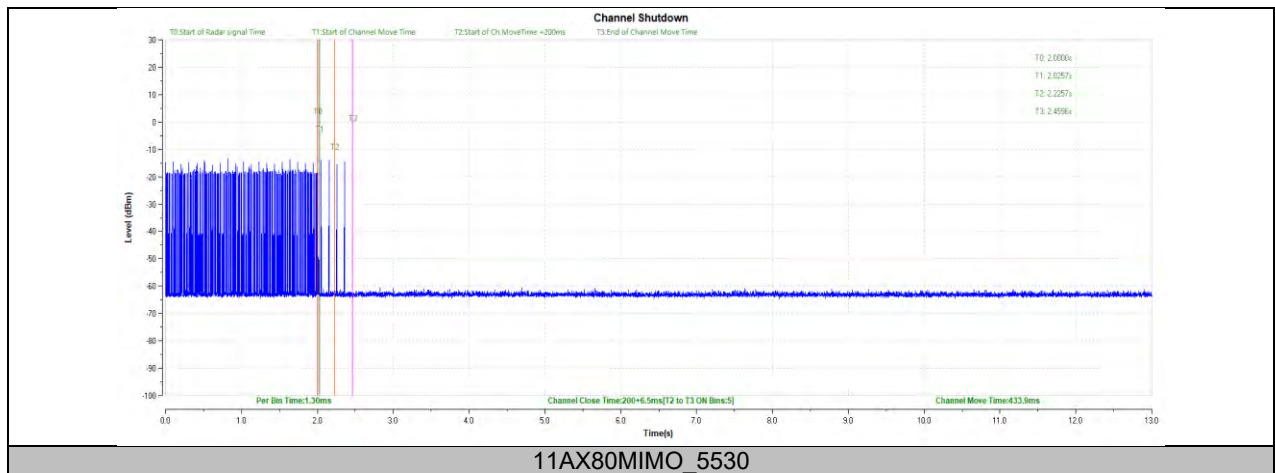


11.9. APPENDIX I: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.9.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AX80MIMO	5530	200+6.5	200+60	433.9	10000	PASS

11.9.2. Test Graphs

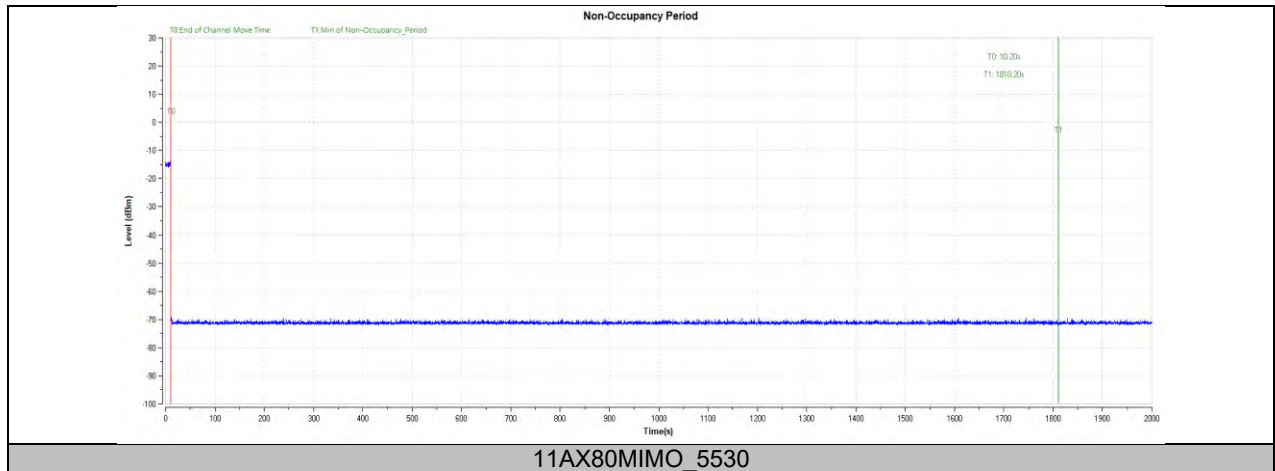


11.10. APPENDIX J: NON-OCCUPANCY PERIOD

Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AX80MIMO	5530	see test graph	≥1800	PASS

11.10.1. Test Graphs



END OF REPORT