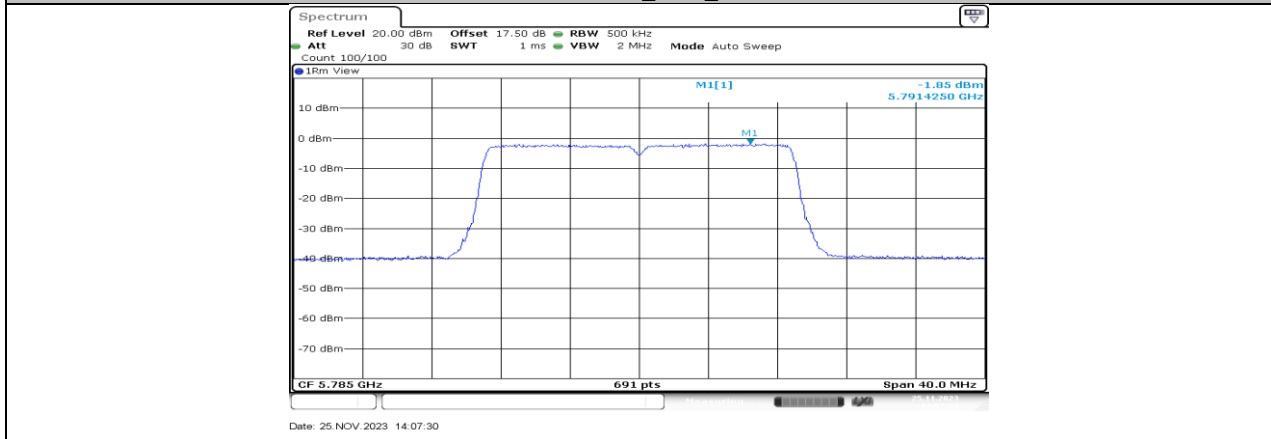
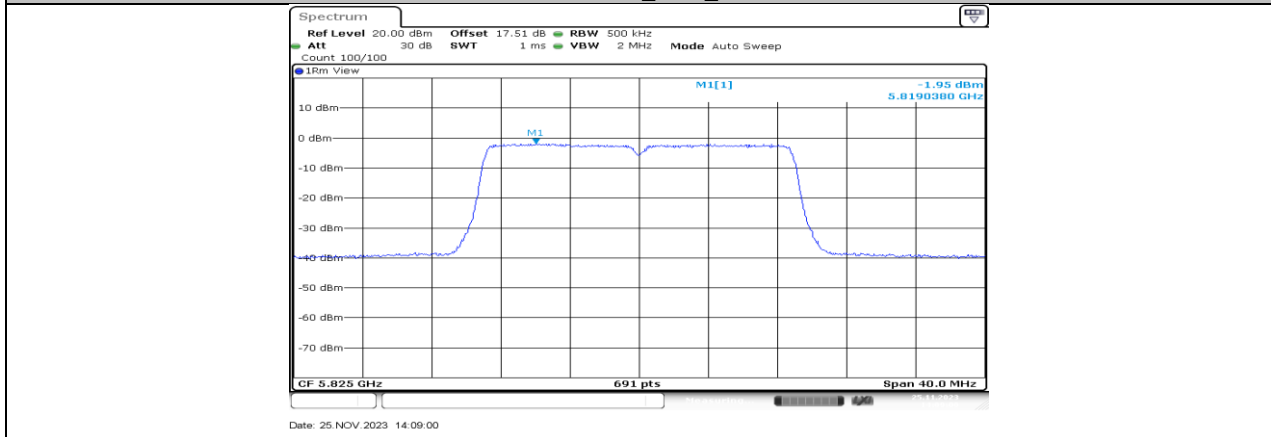


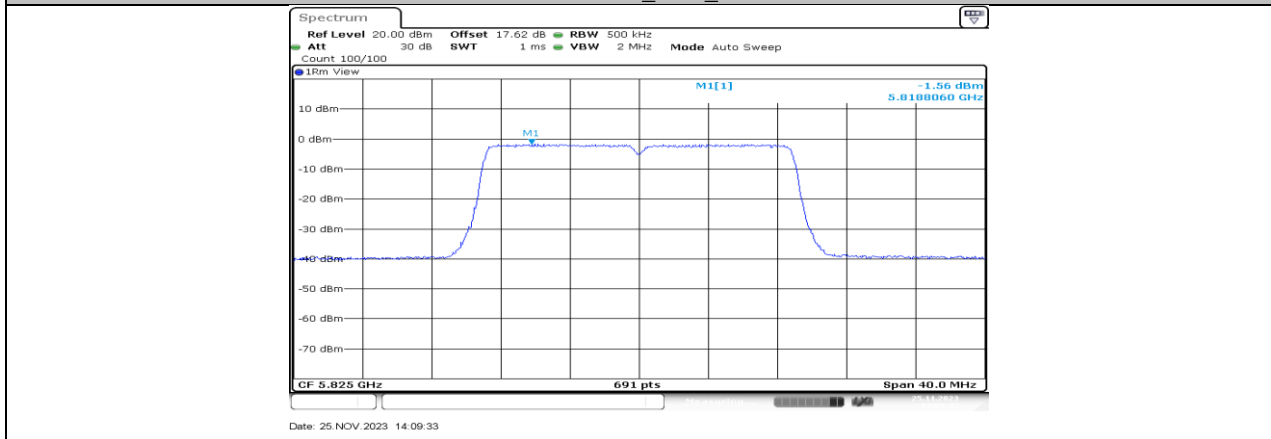
11N20MIMO\_Ant1\_5785

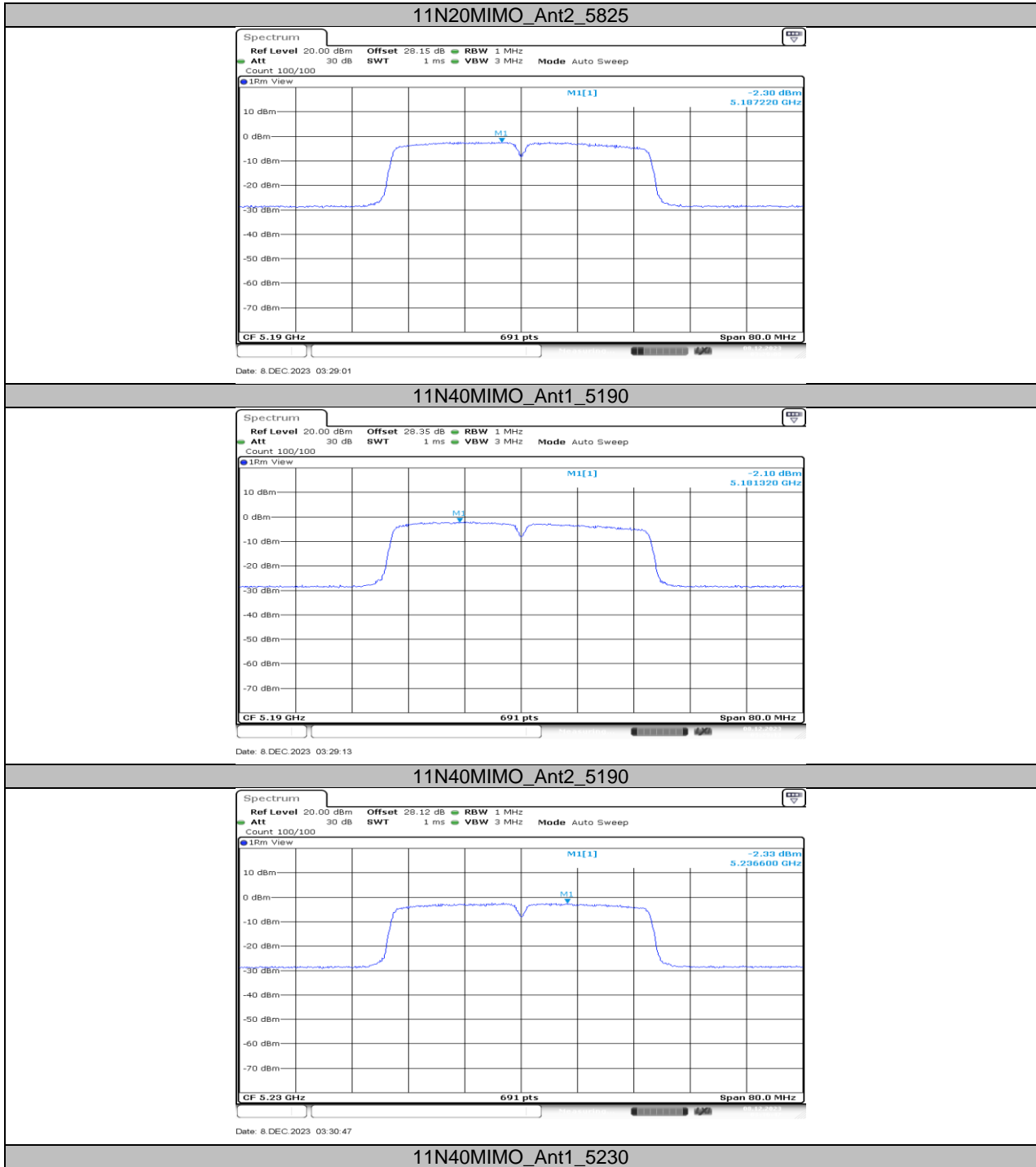


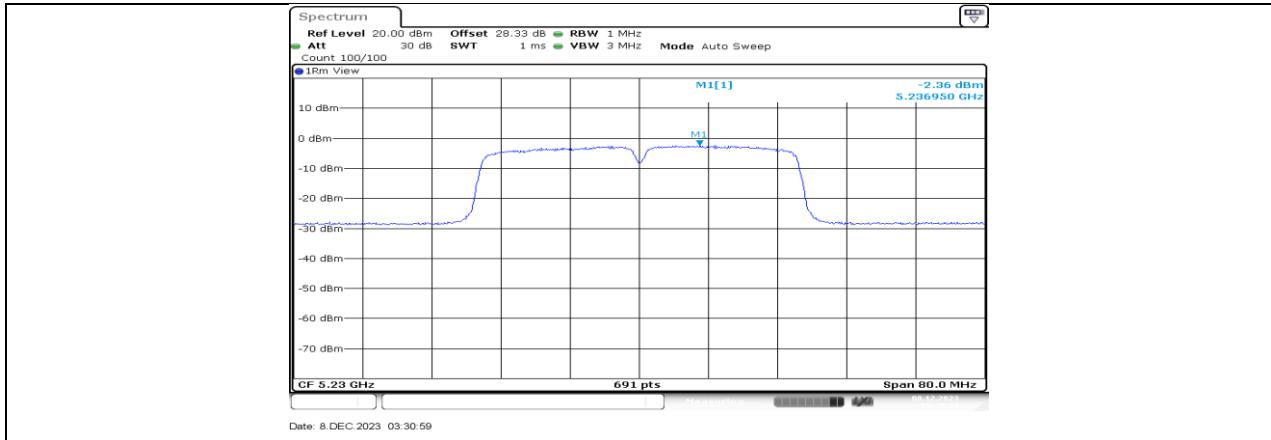
11N20MIMO\_Ant2\_5785



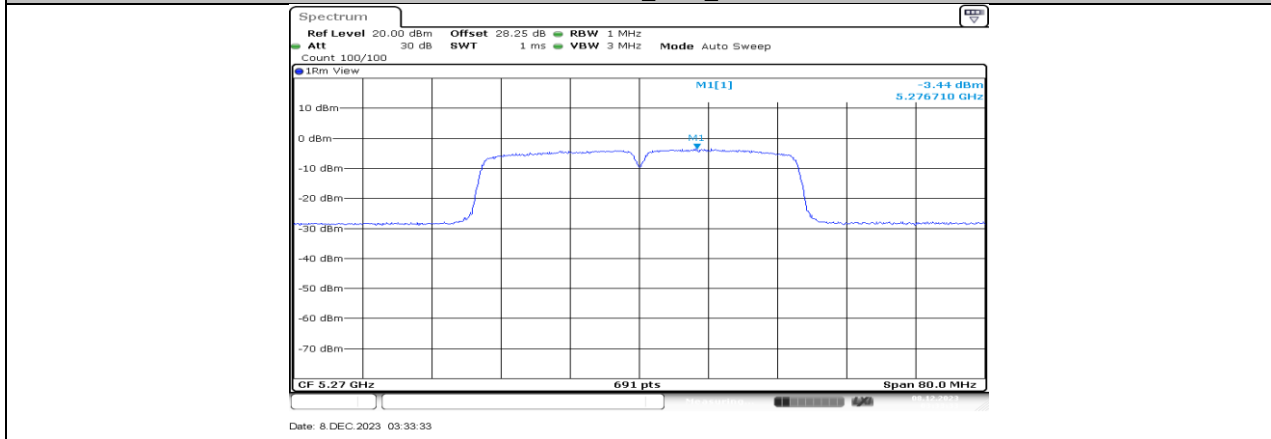
11N20MIMO\_Ant1\_5825



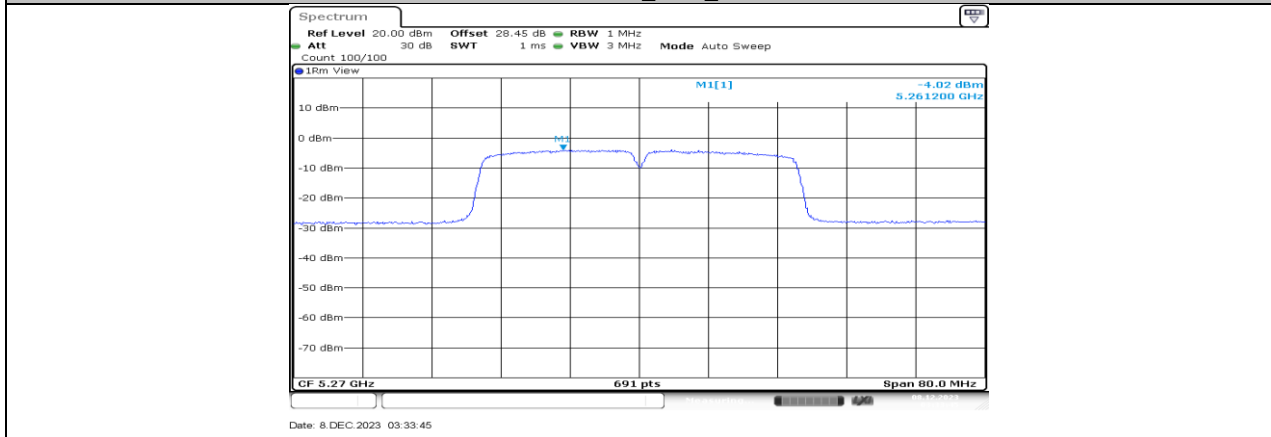




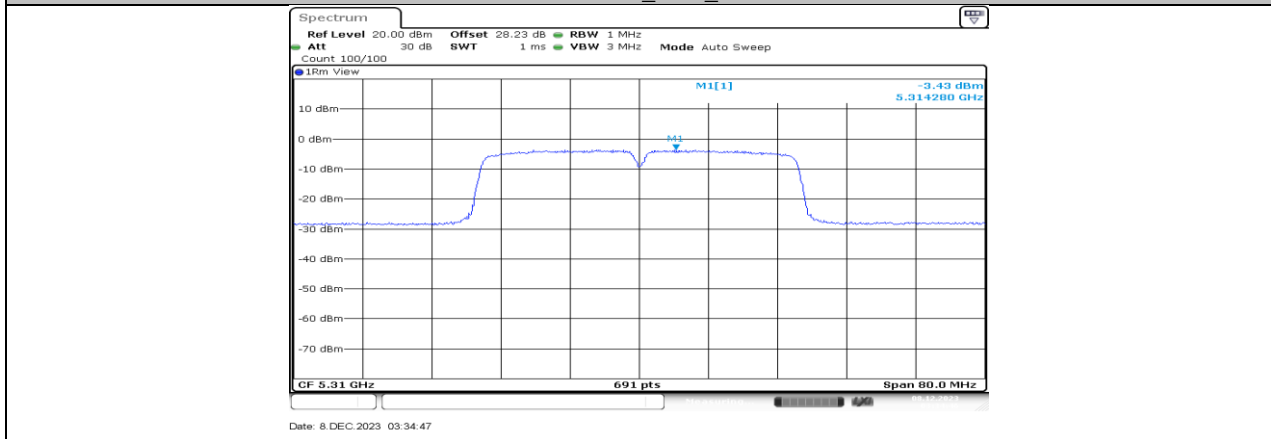
11N40MIMO\_Ant2\_5230

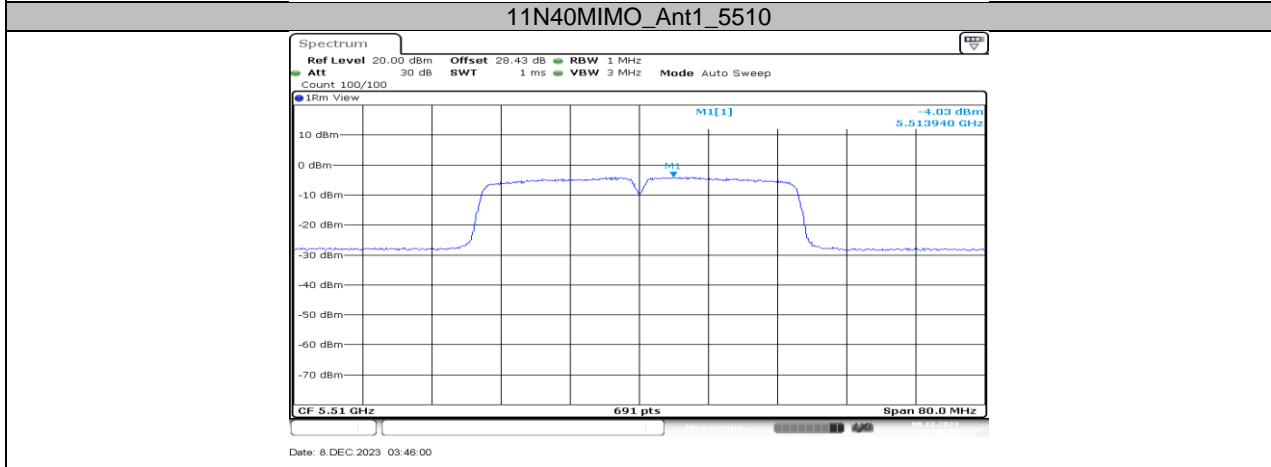
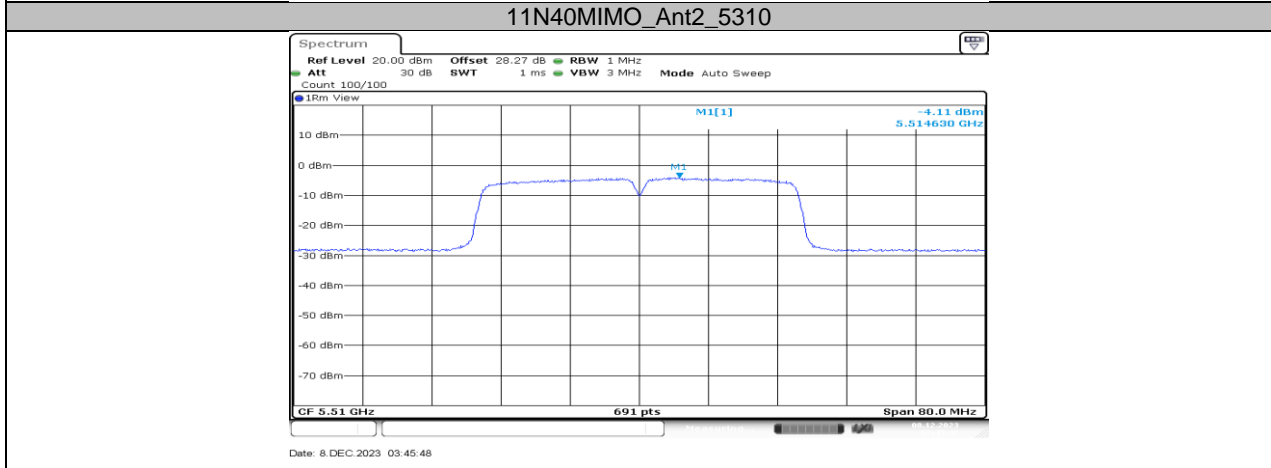
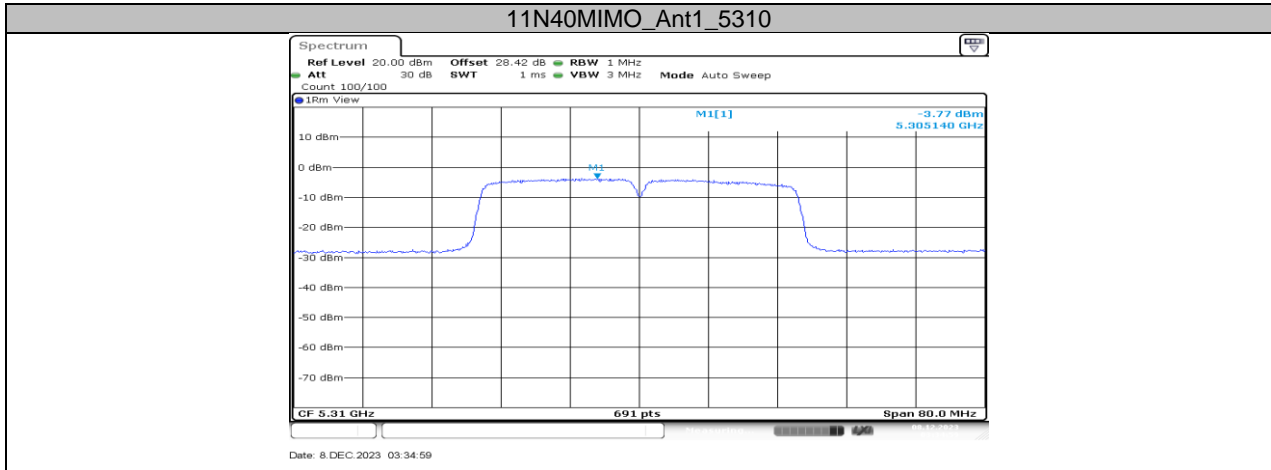


11N40MIMO\_Ant1\_5270

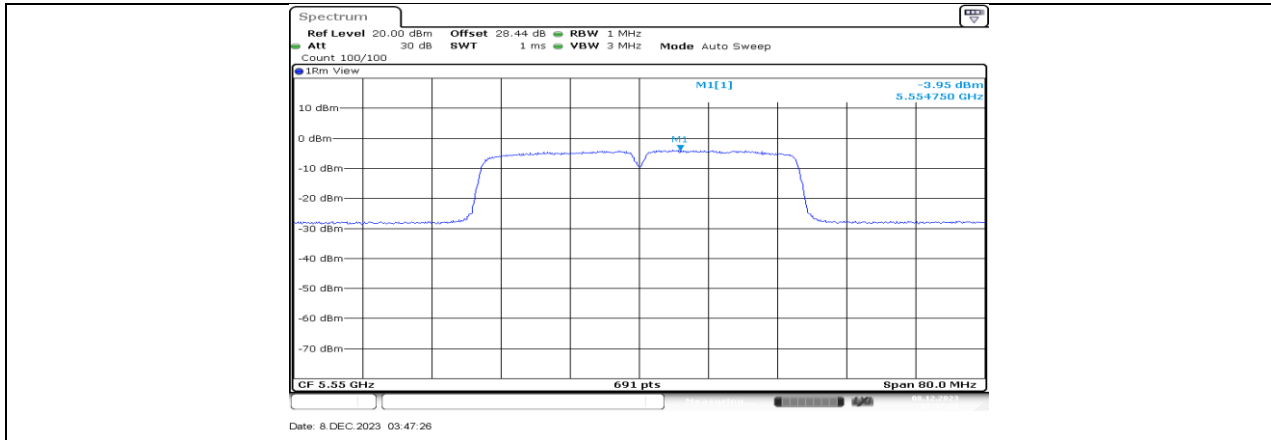


11N40MIMO\_Ant2\_5270

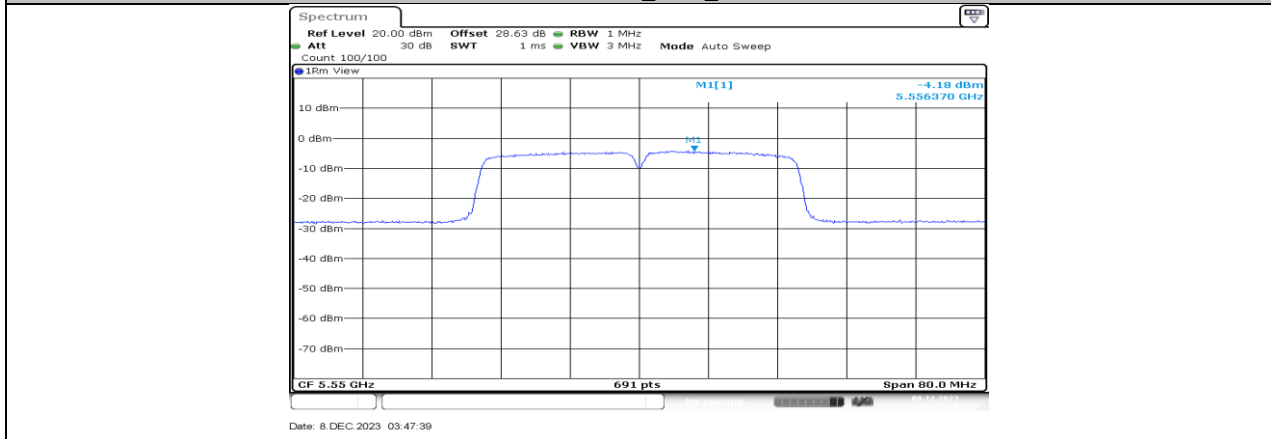




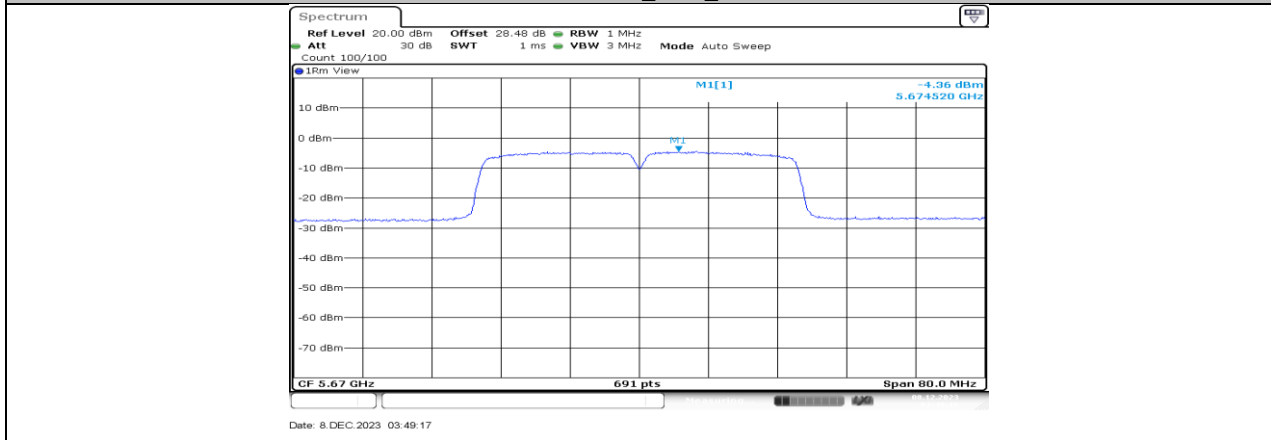
### 11N40MIMO\_Ant2\_5510



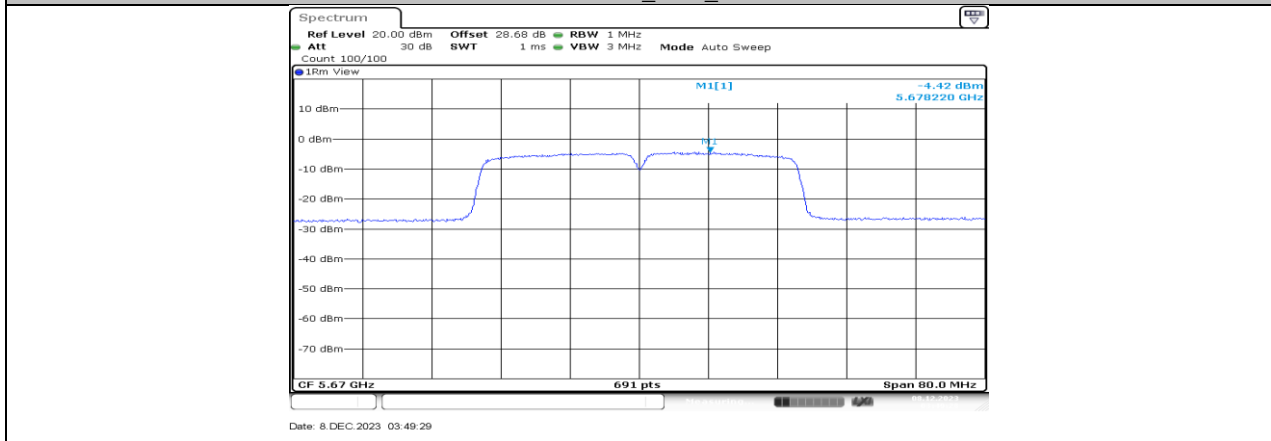
11N40MIMO\_Ant1\_5550

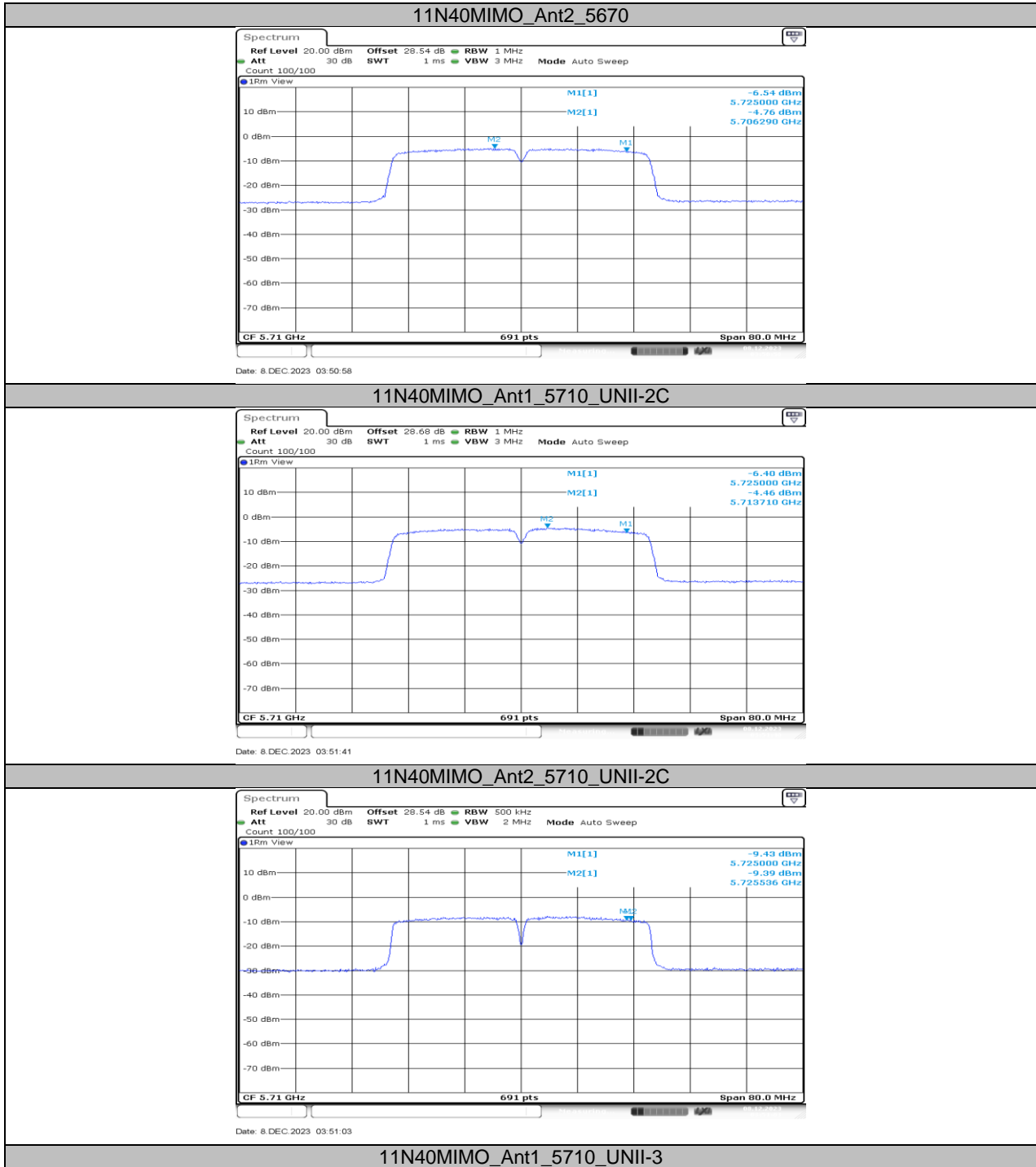


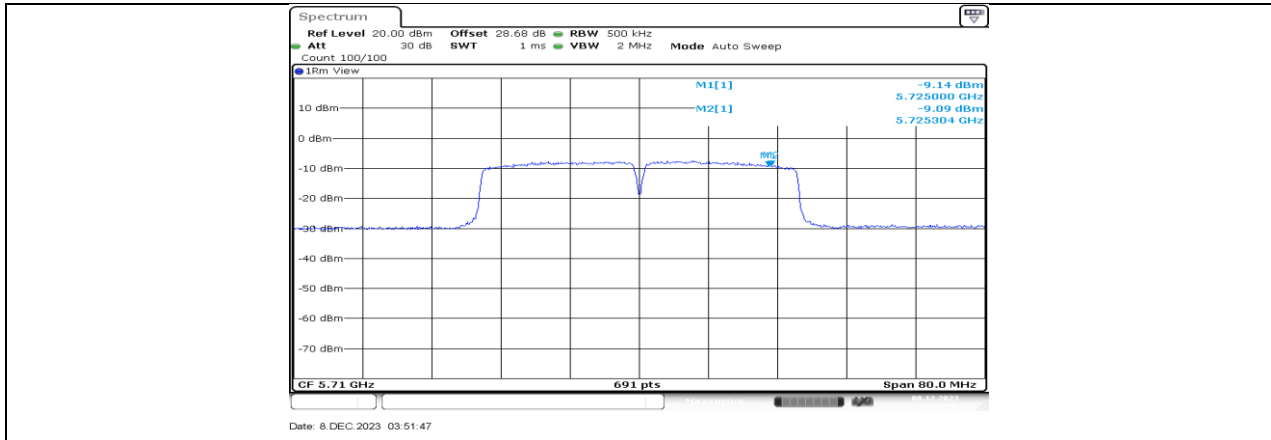
11N40MIMO\_Ant2\_5550



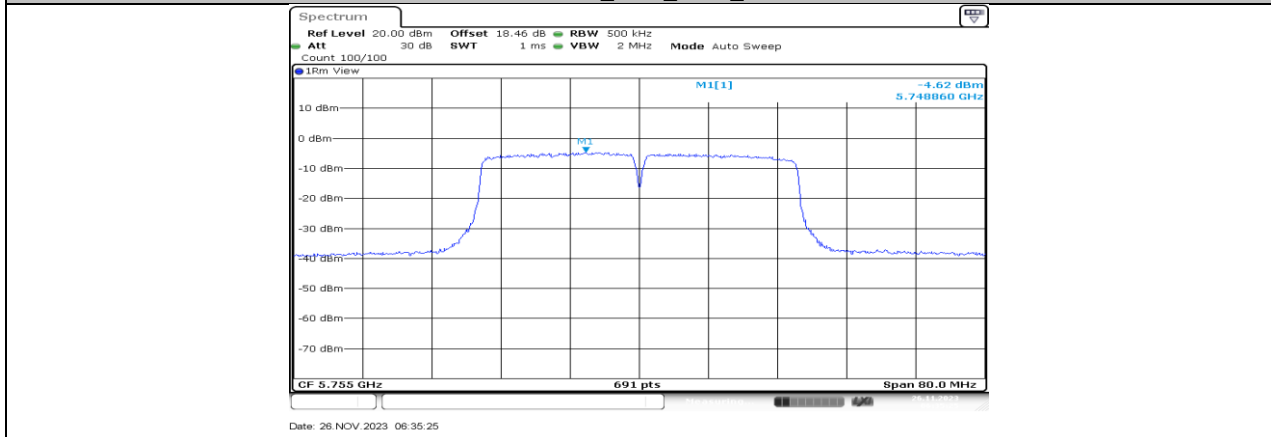
11N40MIMO\_Ant1\_5670



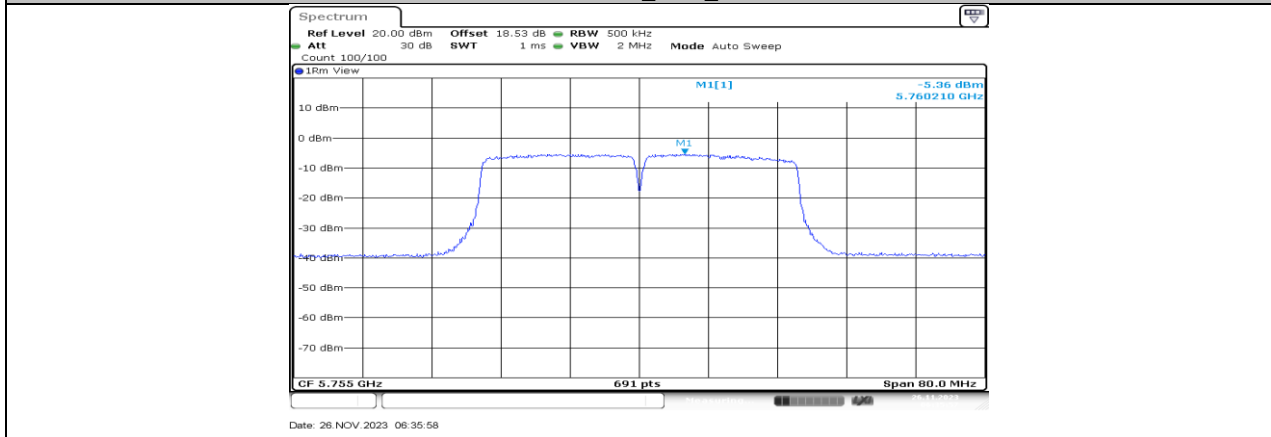




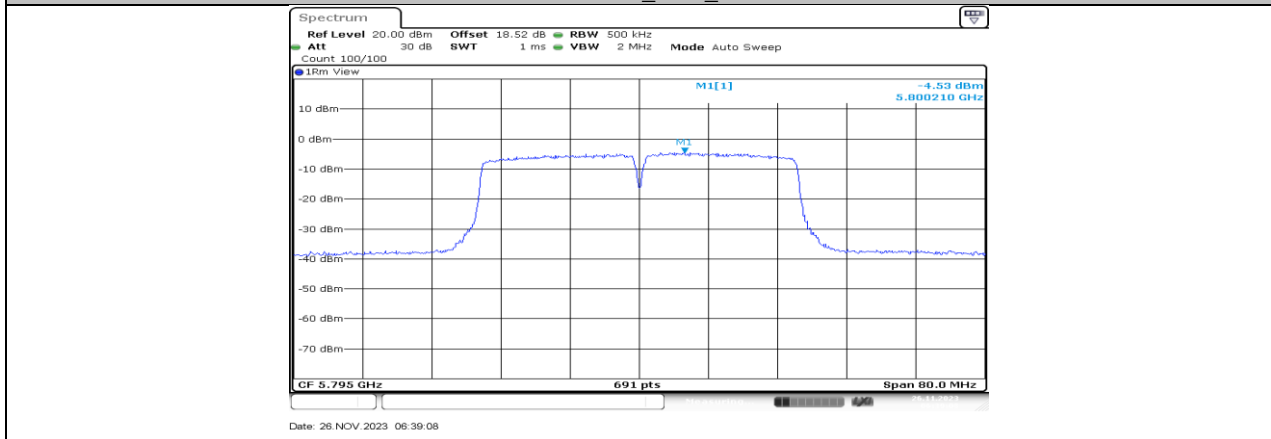
11N40MIMO\_Ant2\_5710\_UNII-3

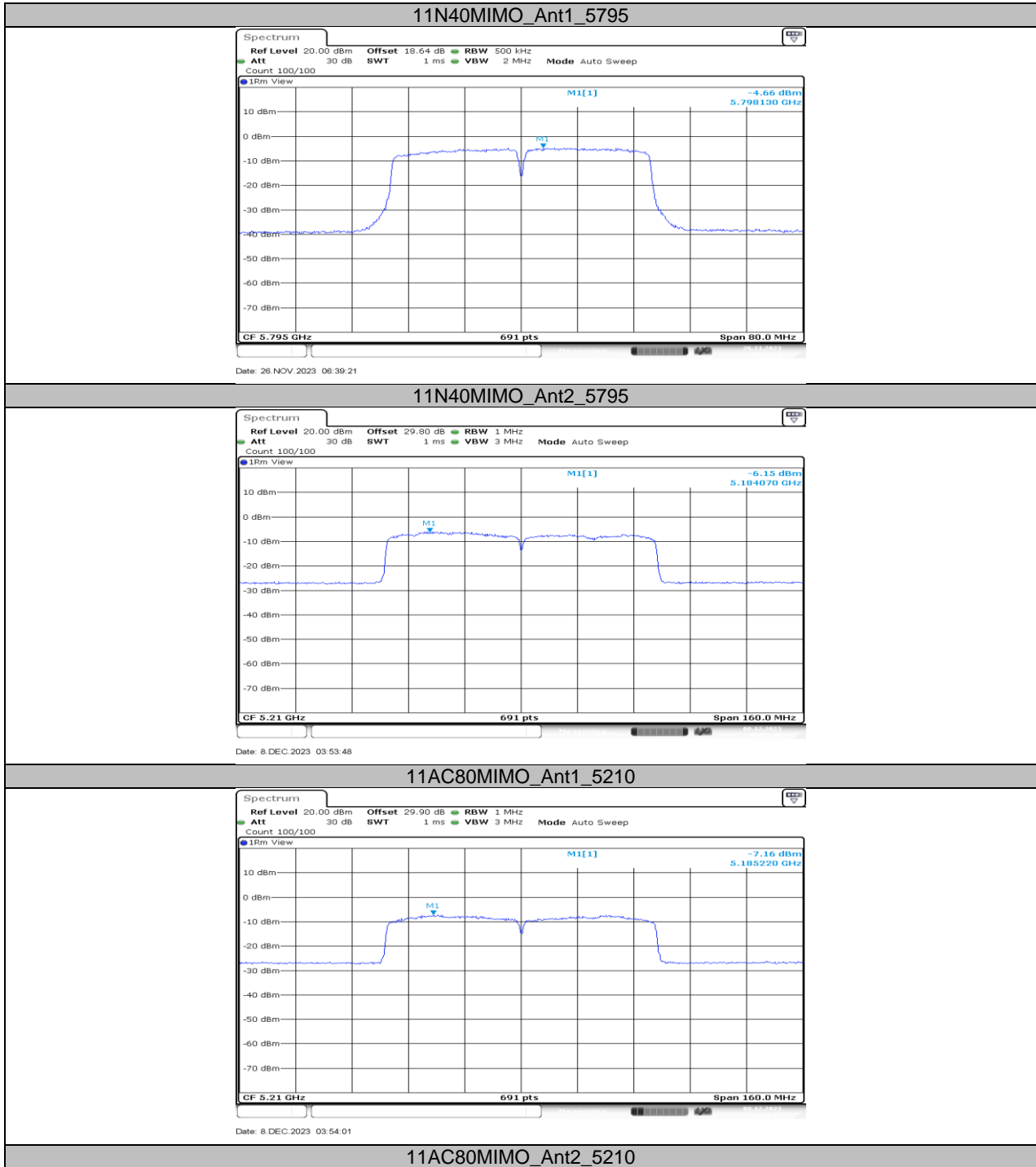


11N40MIMO\_Ant1\_5755

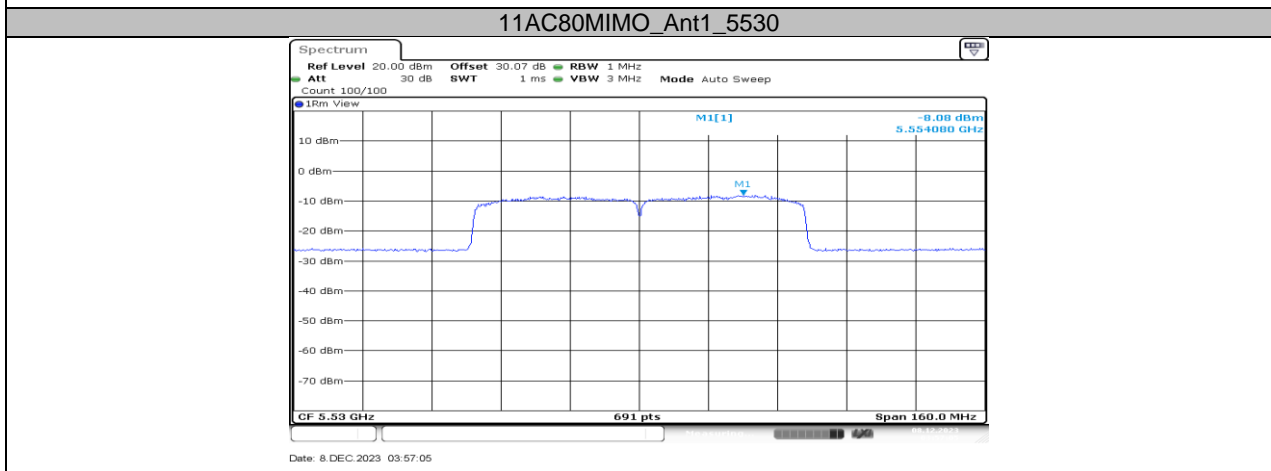
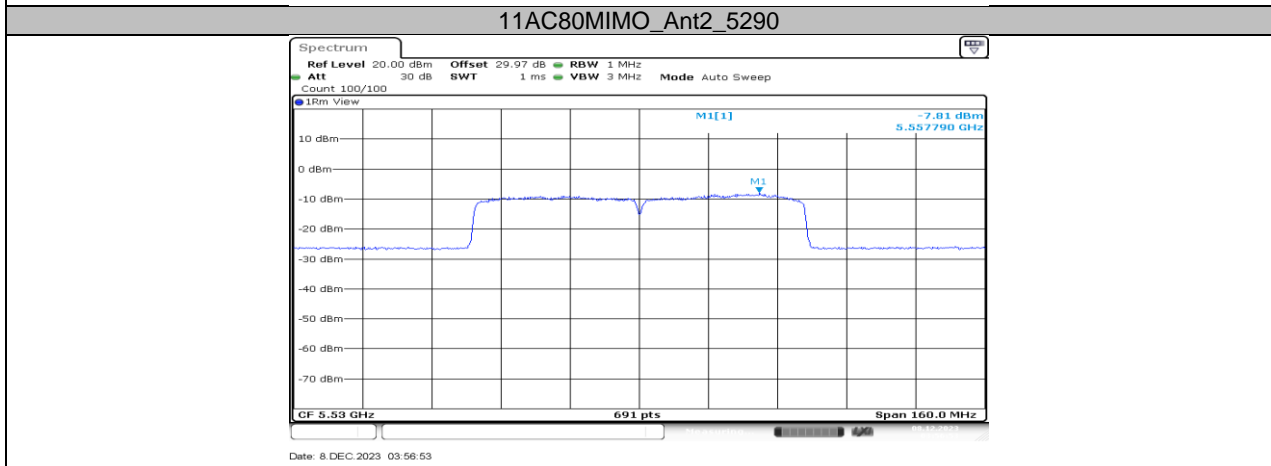
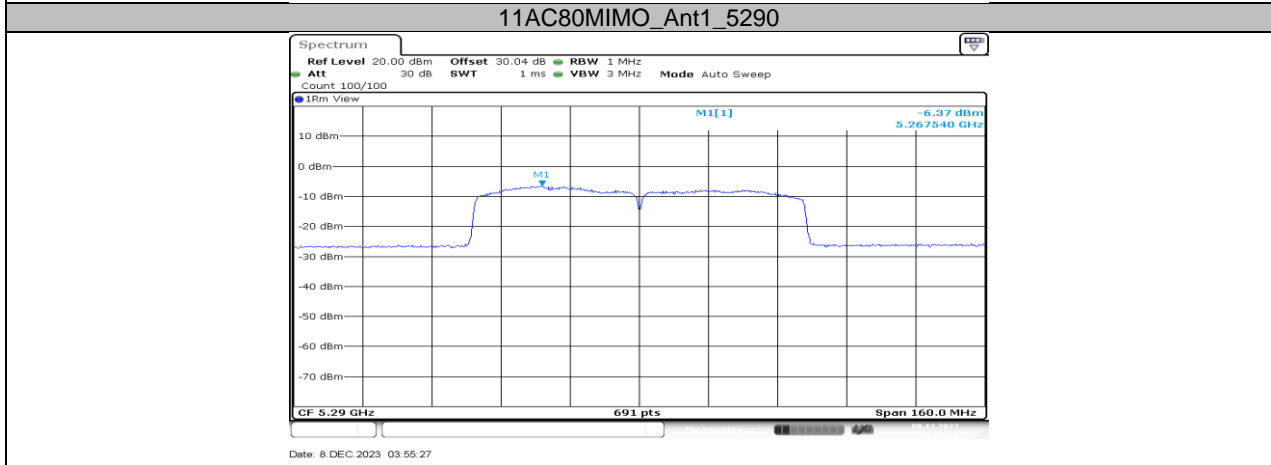
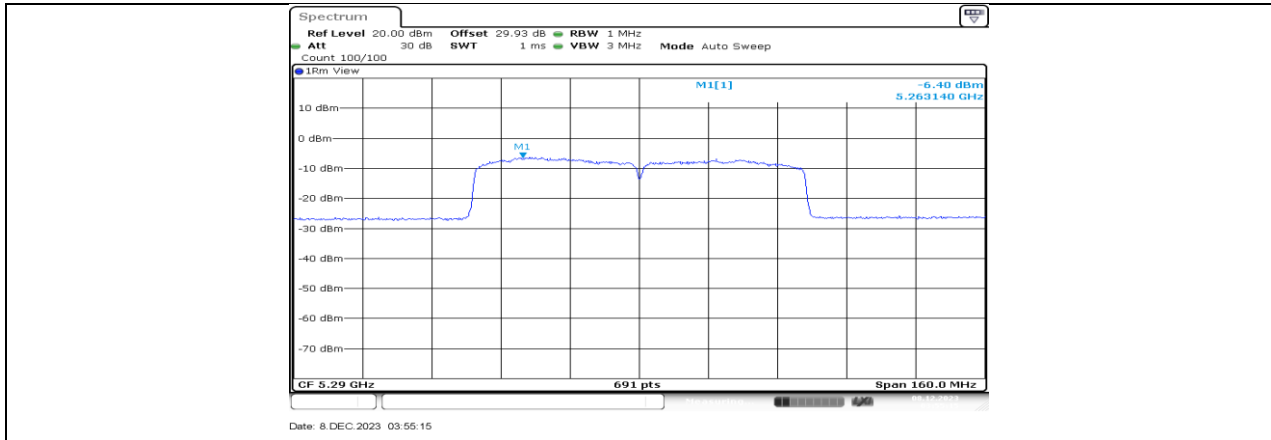


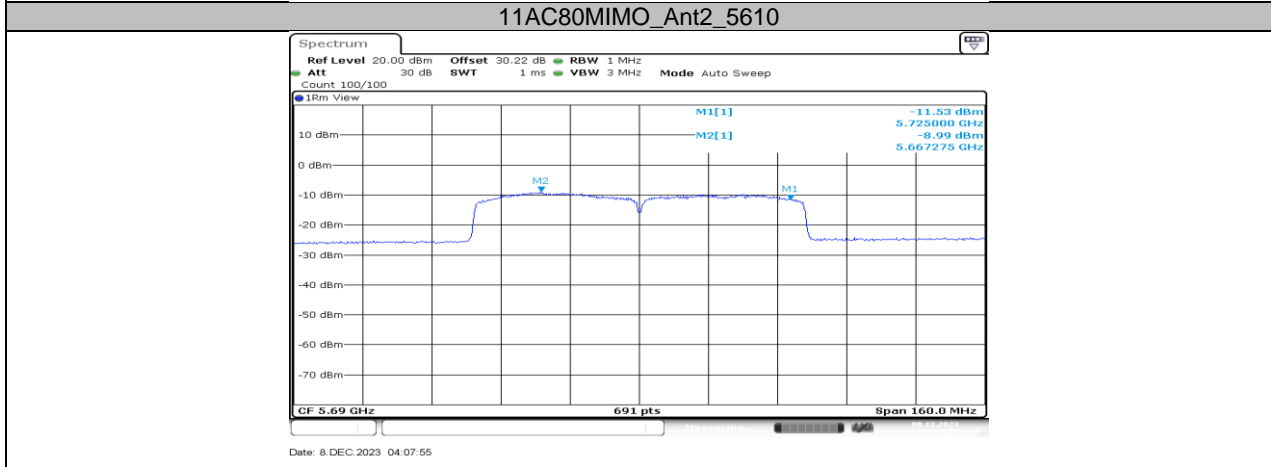
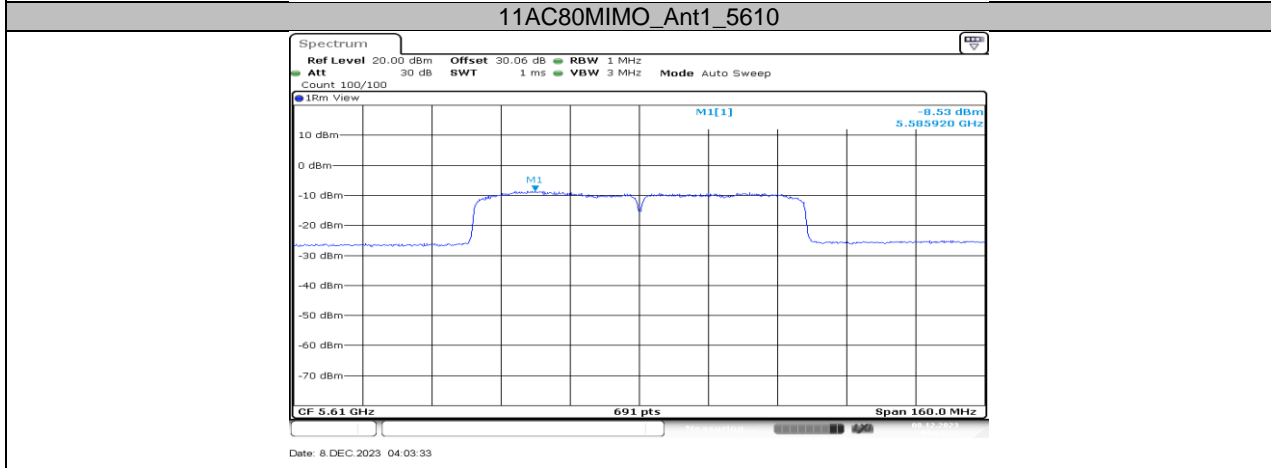
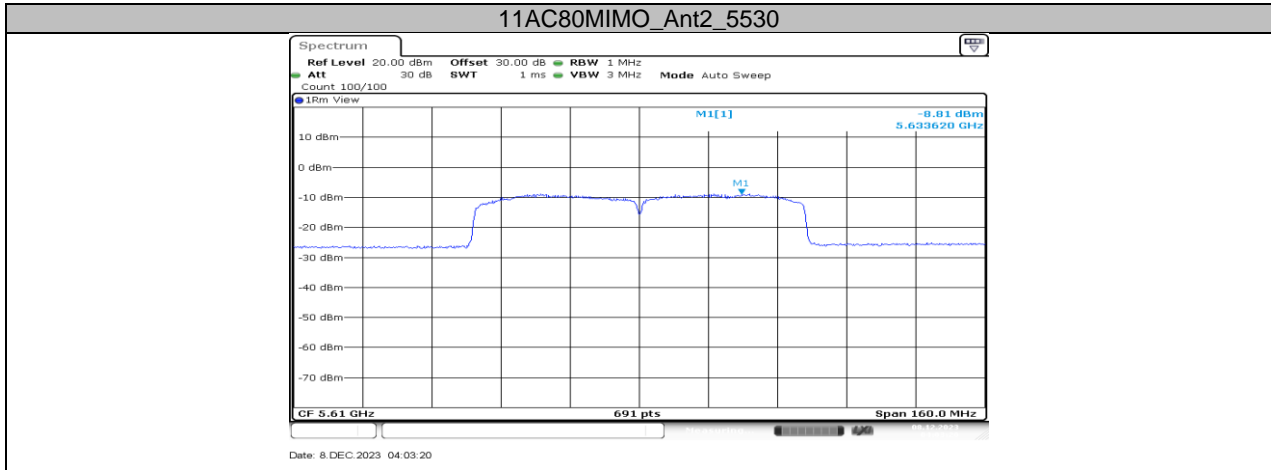
11N40MIMO\_Ant2\_5755



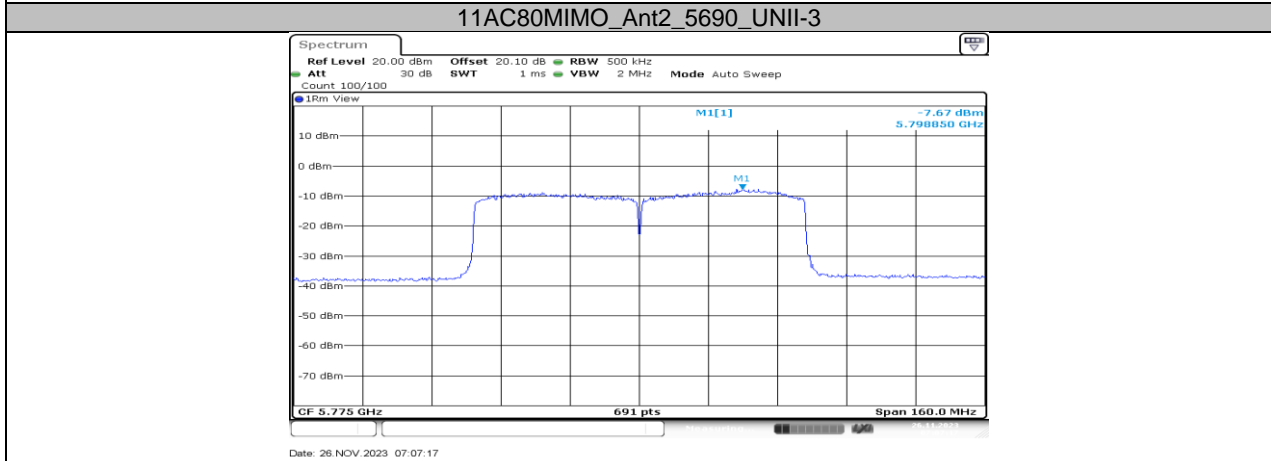
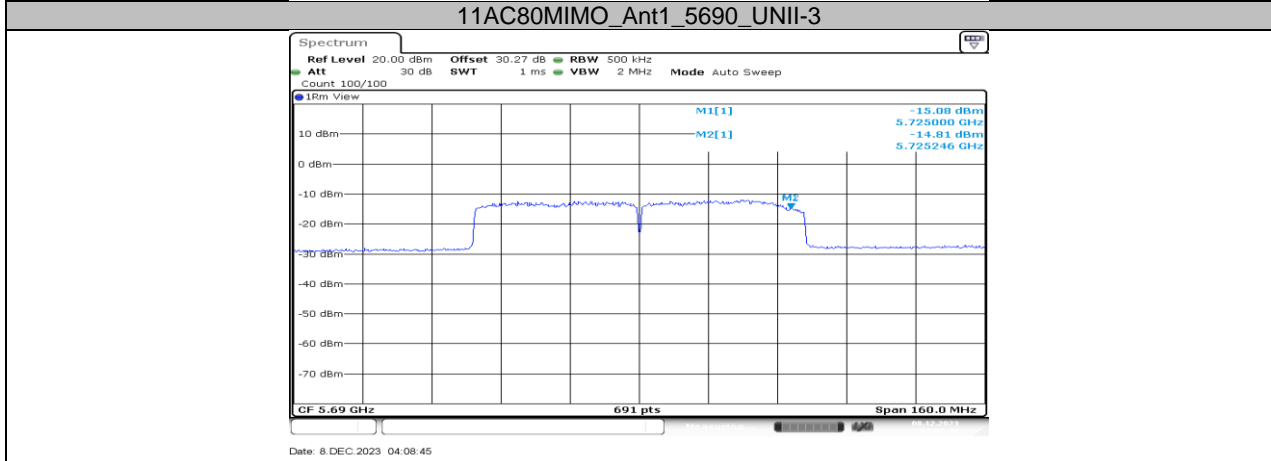
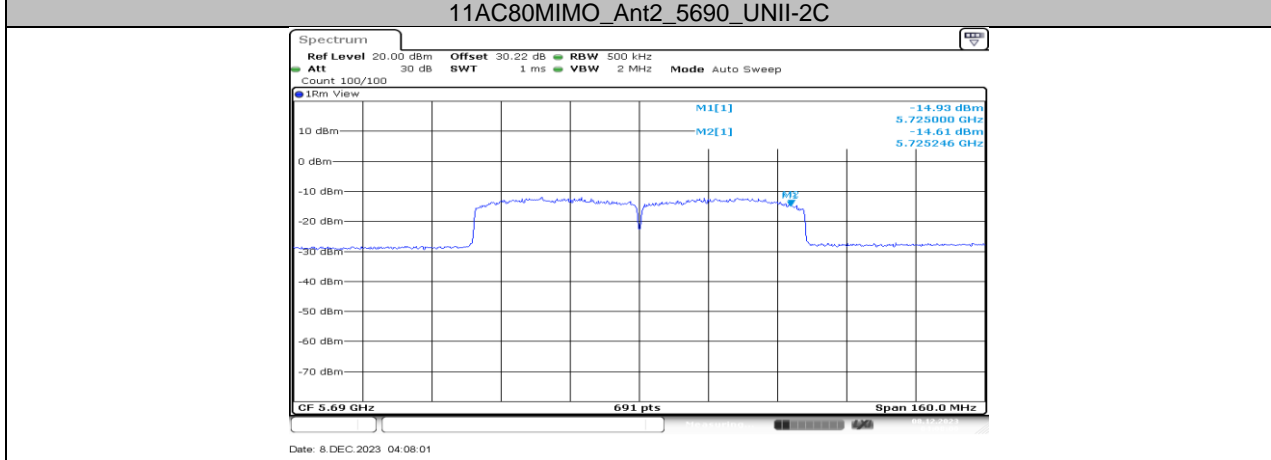
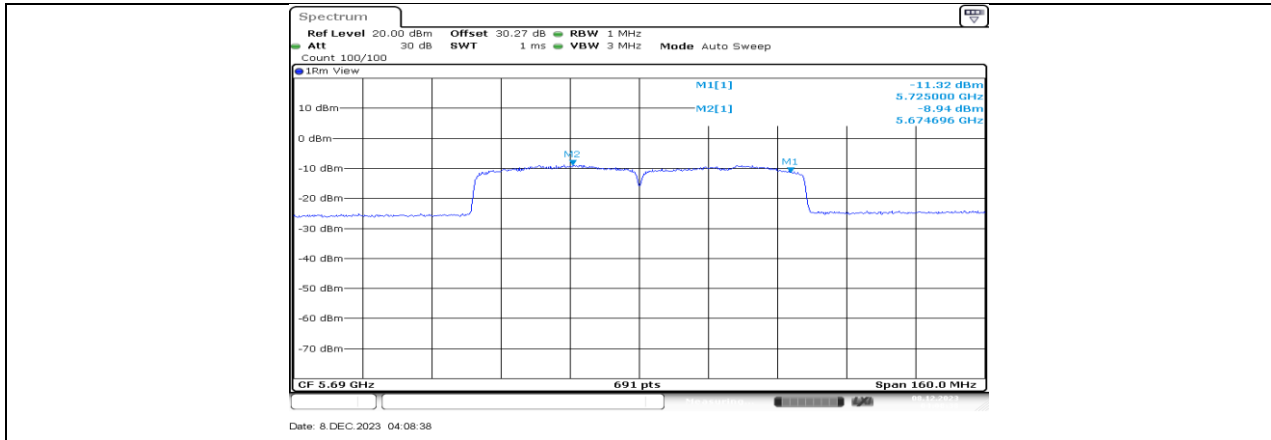


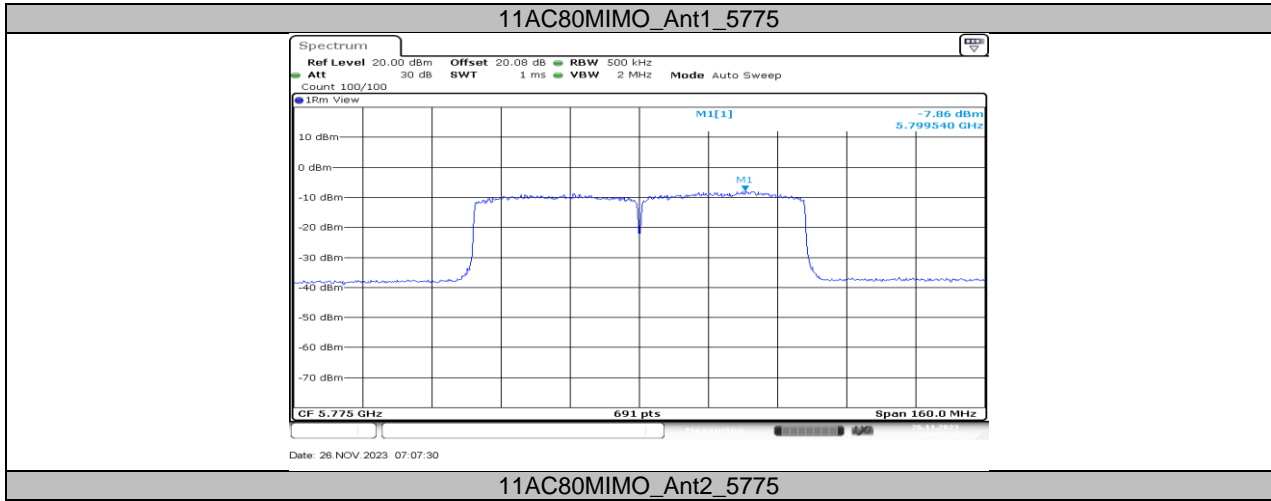






### 11AC80MIMO\_Ant1\_5690\_UNII-2C





## 11.6. APPENDIX D: 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	5180.0181	3.50	5180.0126	2.43	5179.9958	-0.81	5179.9800	-3.87
TN	VN	5180.0031	0.59	5179.9904	-1.85	5180.0059	1.14	5179.9876	-2.39
TN	VH	5179.9821	-3.46	5179.9919	-1.57	5179.9829	-3.31	5180.0099	1.91
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	5179.9904	-1.86	5180.0202	3.90	5180.0162	3.12	5179.9788	-4.10
60	VN	5180.0220	4.24	5179.9967	-0.65	5180.0062	1.20	5179.9761	-4.62
50	VN	5179.9832	-3.24	5179.9863	-2.64	5180.0076	1.47	5179.9811	-3.65
40	VN	5179.9903	-1.87	5179.9979	-0.41	5180.0249	4.80	5180.0234	4.51
30	VN	5180.0099	1.91	5179.9920	-1.55	5180.0053	1.03	5180.0052	1.01
20	VN	5179.9858	-2.74	5179.9780	-4.26	5180.0143	2.77	5180.0220	4.24
10	VN	5180.0137	2.64	5179.9836	-3.16	5180.0181	3.50	5179.9803	-3.80
0	VN	5179.9964	-0.70	5179.9927	-1.41	5179.9837	-3.15	5179.9888	-2.16

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	5825.0089	1.54	5824.9883	-2.00	5825.0077	1.32	5825.0147	2.52
TN	VN	5824.9919	-1.38	5824.9799	-3.44	5824.9762	-4.08	5824.9918	-1.40
TN	VH	5824.9839	-2.77	5824.9907	-1.60	5825.0232	3.98	5825.0212	3.65

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	5825.0001	0.02	5825.0152	2.61	5824.9944	-0.97	5825.0181	3.10
60	VN	5825.0001	0.02	5825.0178	3.05	5825.0234	4.02	5825.0144	2.46
50	VN	5824.9864	-2.34	5825.0021	0.37	5825.0055	0.94	5824.9990	-0.17
40	VN	5824.9946	-0.93	5825.0094	1.62	5824.9880	-2.06	5825.0043	0.74
30	VN	5824.9783	-3.72	5824.9982	-0.31	5824.9754	-4.23	5825.0210	3.60
20	VN	5824.9877	-2.11	5825.0165	2.84	5824.9887	-1.94	5825.0208	3.58
10	VN	5824.9863	-2.35	5825.0109	1.88	5825.0091	1.56	5825.0188	3.23
0	VN	5825.0235	4.03	5824.9774	-3.87	5824.9848	-2.61	5825.0206	3.53

**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 E: 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	1.36	1.86	0.7312	73.12	1.36	0.74	1
11N20MIMO	1.27	1.77	0.7175	71.75	1.44	0.79	1
11N40MIMO	0.63	1.13	0.5575	55.75	2.54	1.59	2
11AC80MIMO	0.31	0.81	0.3827	38.27	4.17	3.23	4

Note:

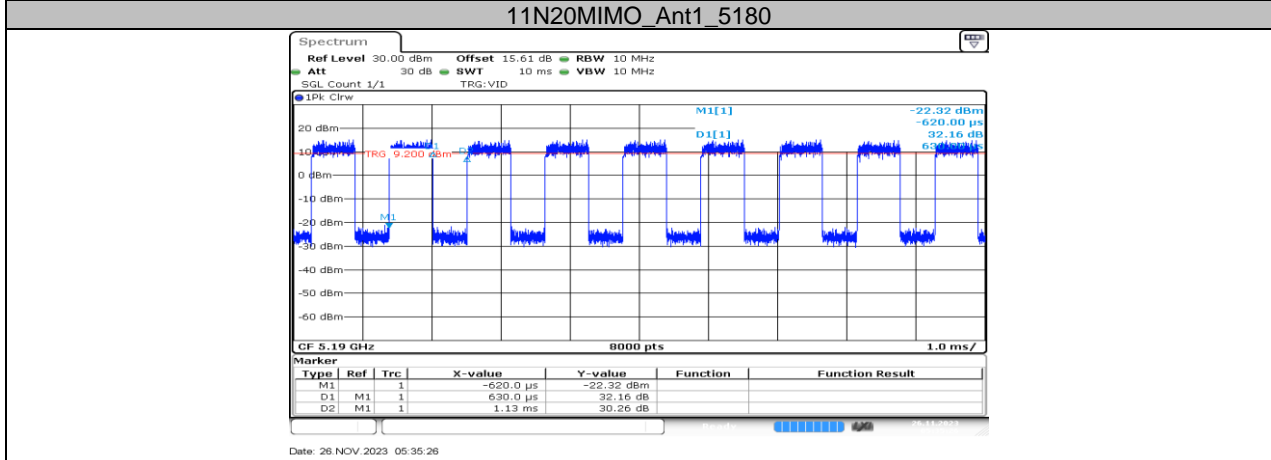
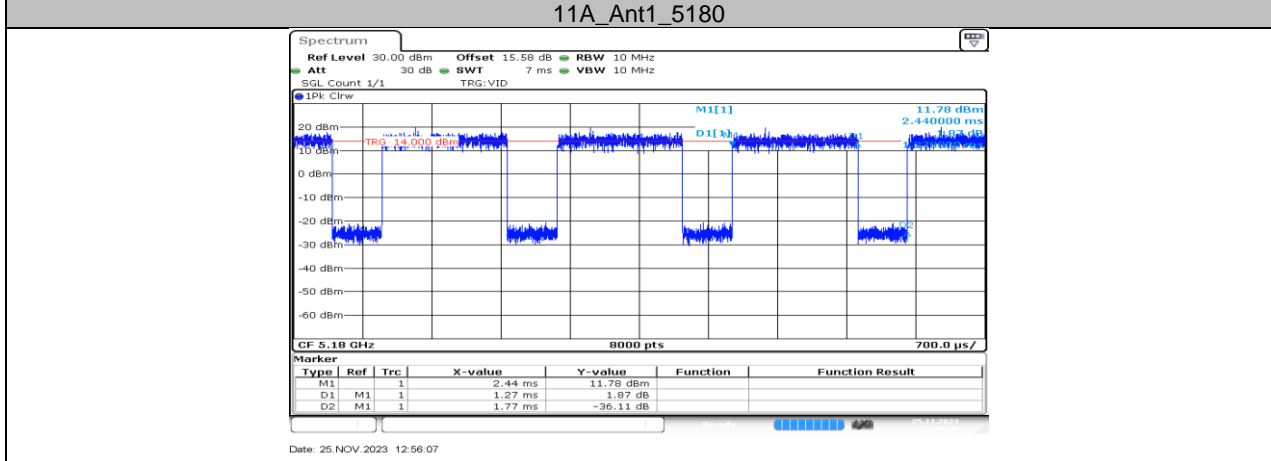
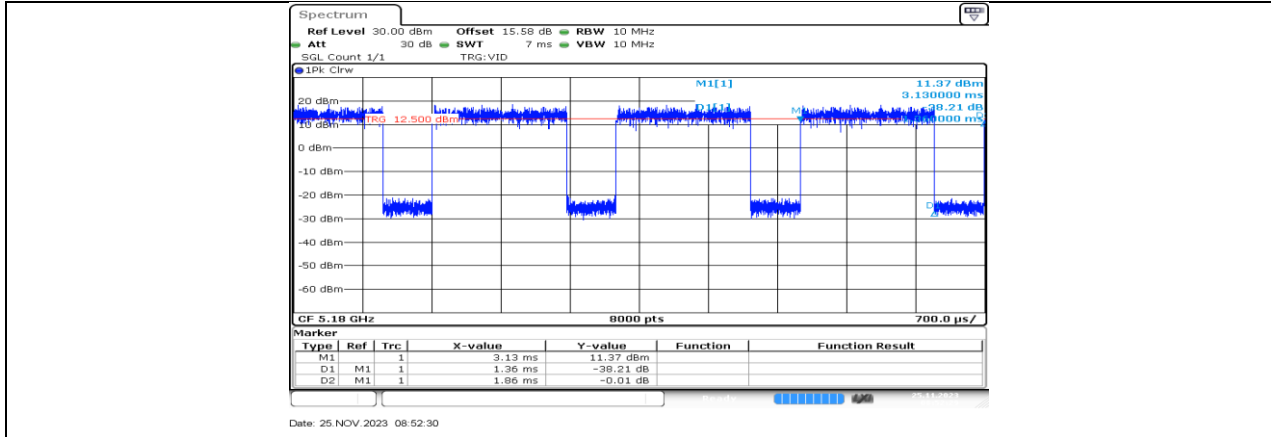
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

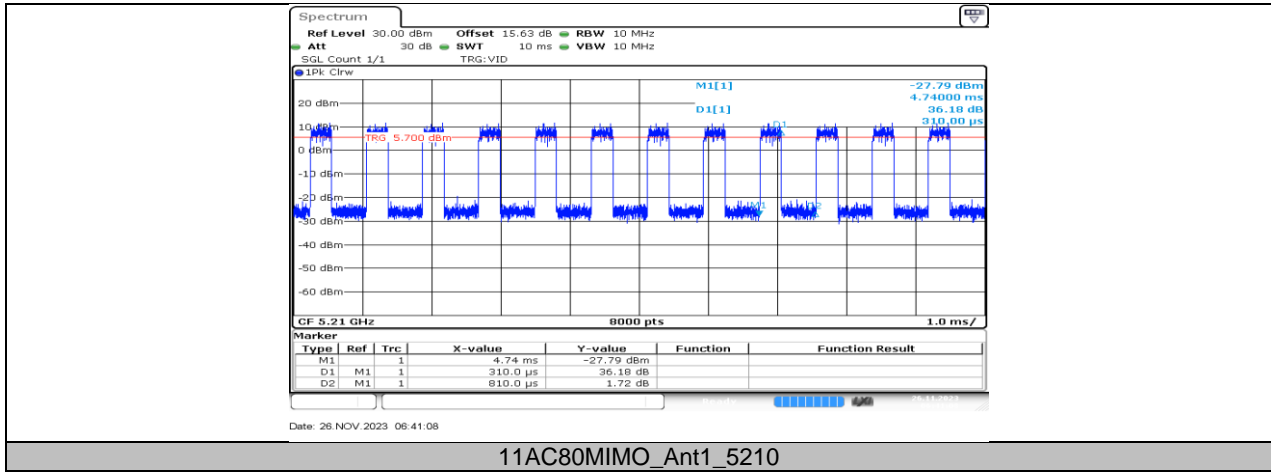
Where: T is On Time

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

### 11.7.2. Test Graphs

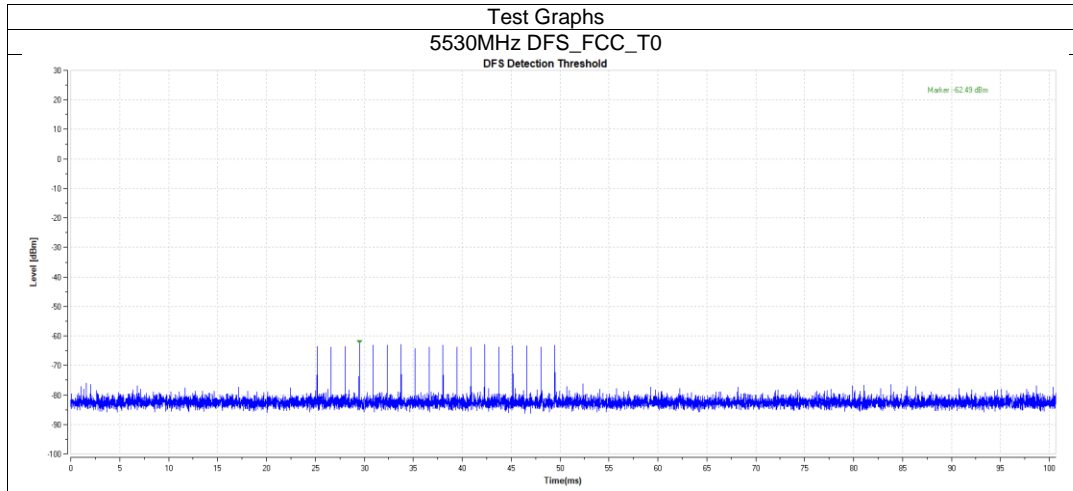






### 11.8. APPENDIX F: CALIBRATION

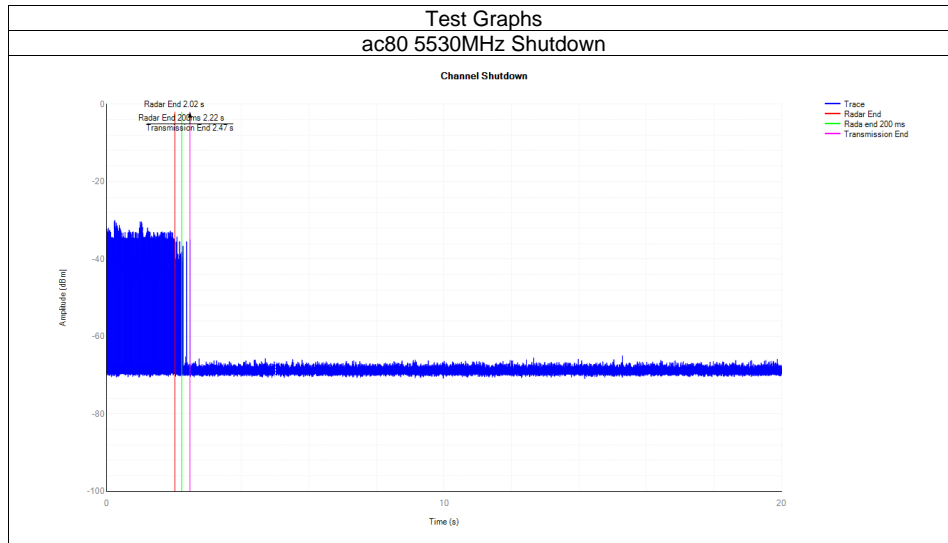
Mode	Frequency (MHz)	Type	Result	Verdict
ac80	5530	DFS_FCC_T0	See test Graph	Pass



### 11.9. APPENDIX G: 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	0.446	10	0.041	0.26	0.008	0.06	Pass

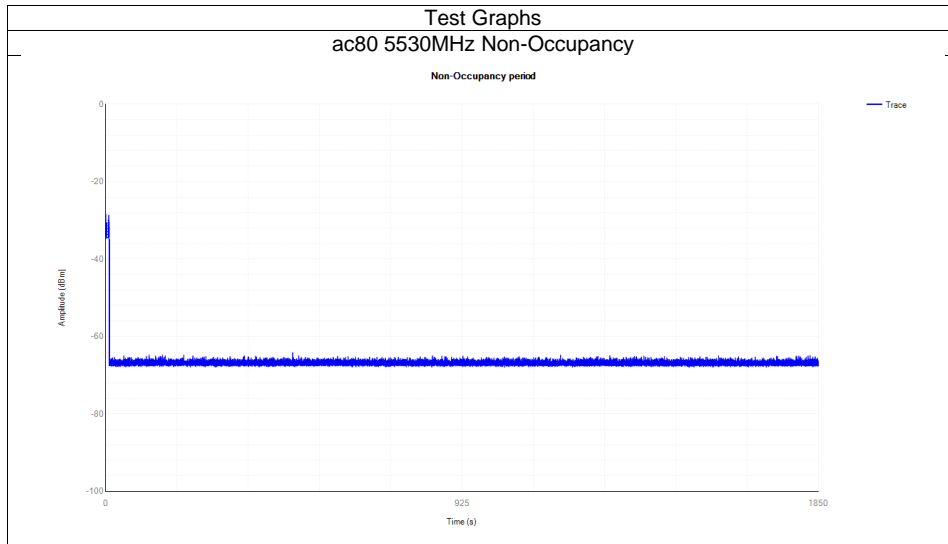
Note: All modes have been tested, only the worst data recorded in the report.



### 11.10. APPENDIX H: 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**