

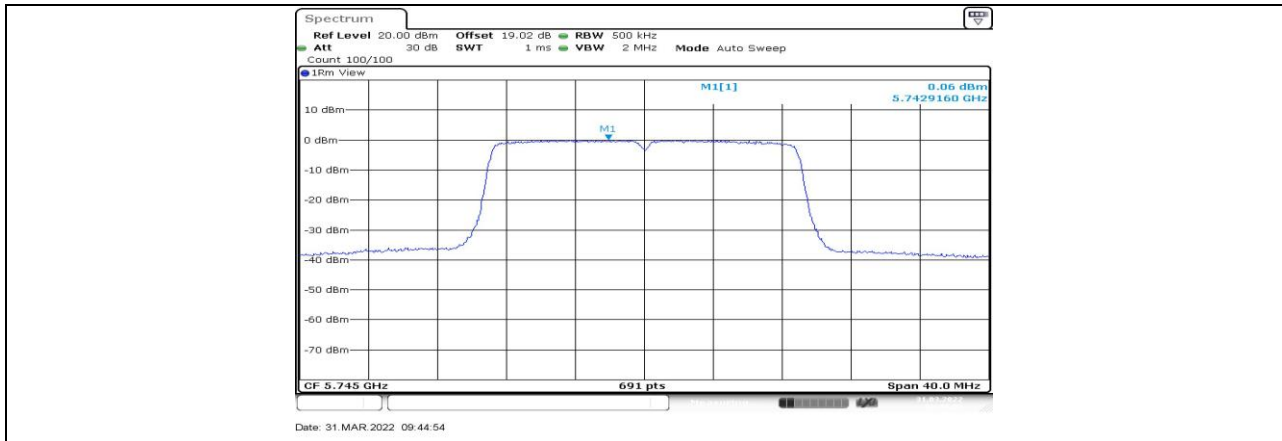
11N20MIMO\_Ant1\_5720\_UNII-3



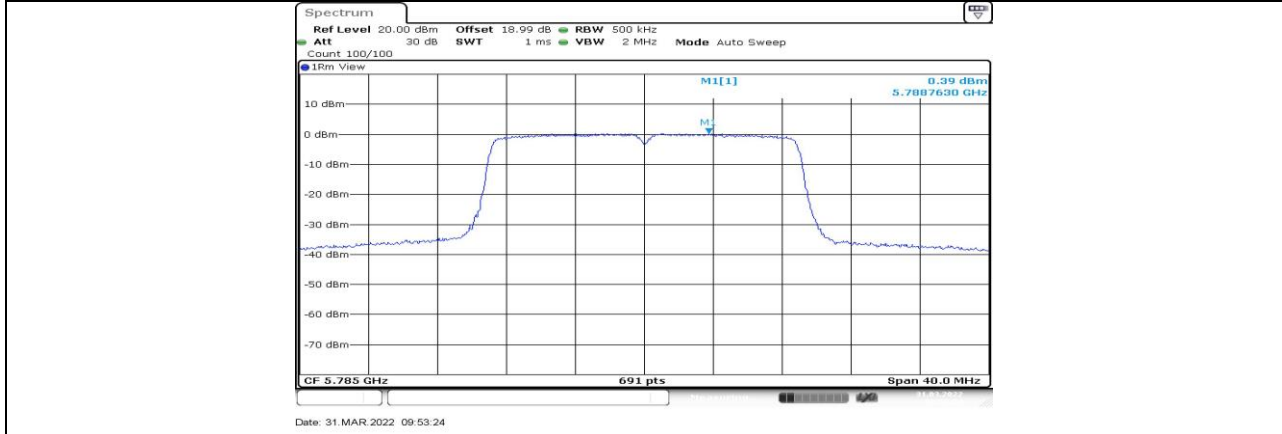
11N20MIMO\_Ant2\_5720\_UNII-3



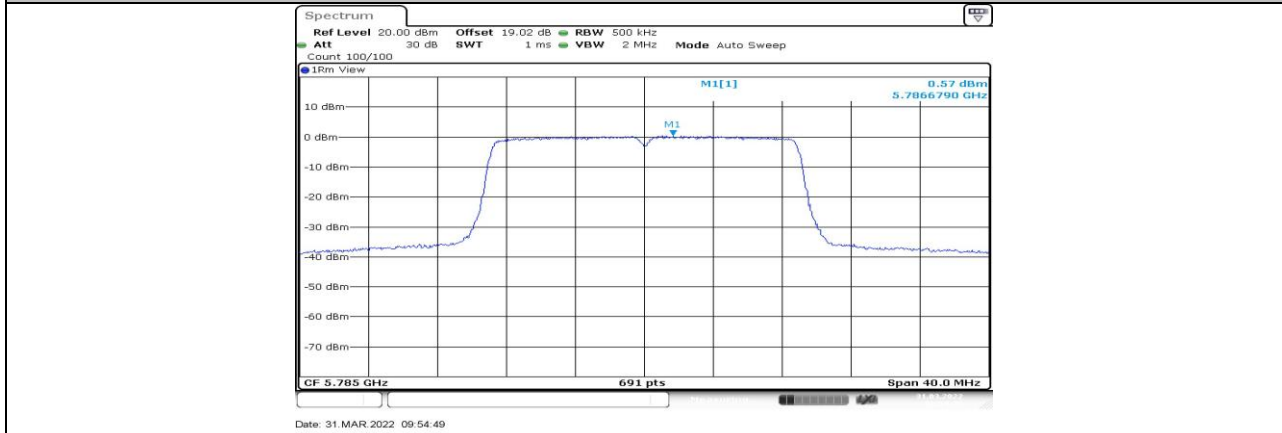
11N20MIMO\_Ant1\_5745



11N20MIMO\_Ant2\_5745



11N20MIMO\_Ant1\_5785



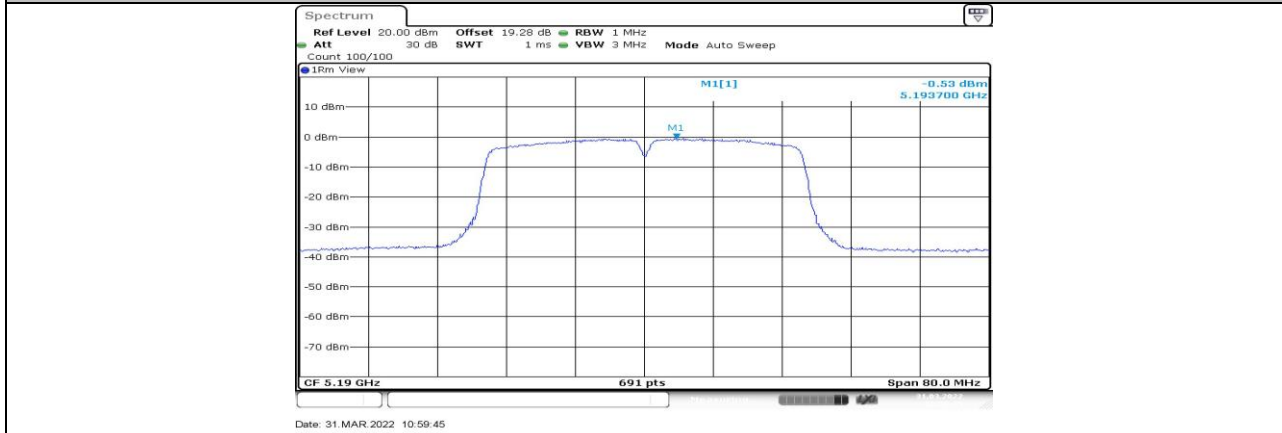
11N20MIMO\_Ant2\_5785



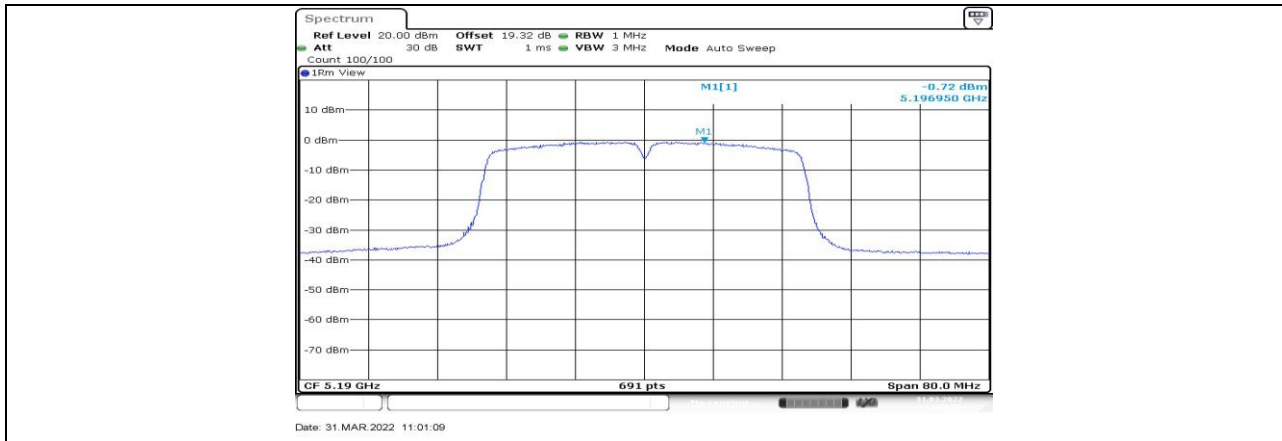
11N20MIMO\_Ant1\_5825



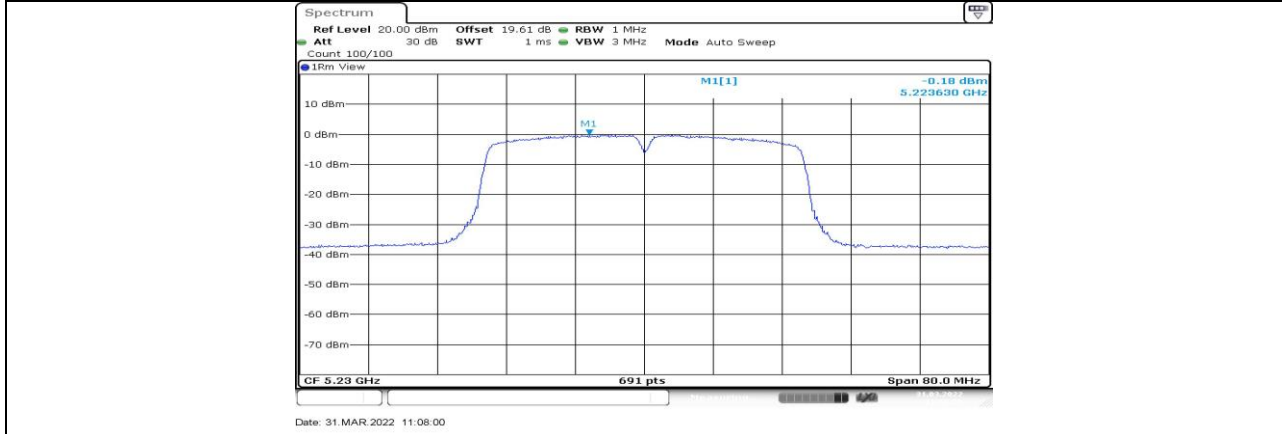
11N20MIMO\_Ant2\_5825



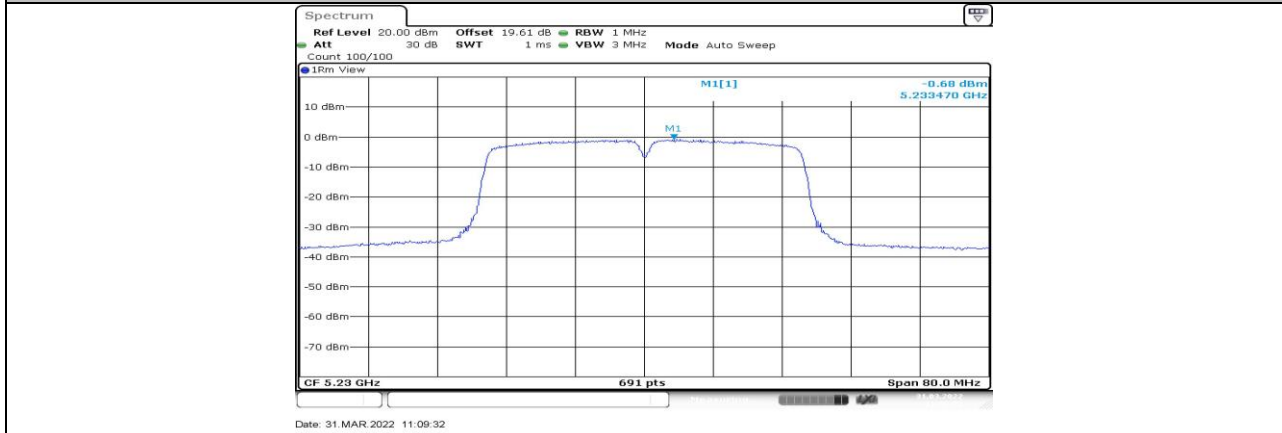
11N40MIMO\_Ant1\_5190



11N40MIMO\_Ant2\_5190



11N40MIMO\_Ant1\_5230



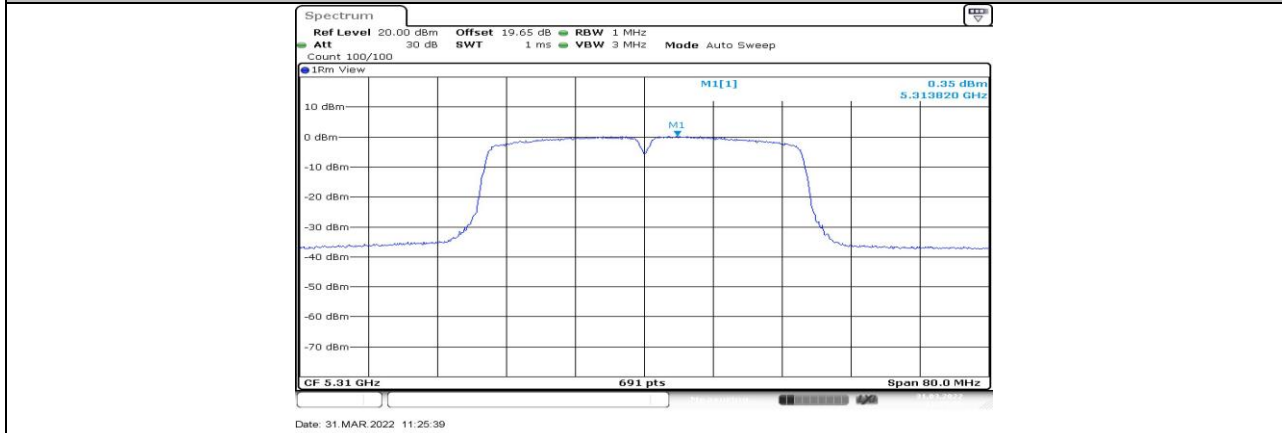
11N40MIMO\_Ant2\_5230



11N40MIMO\_Ant1\_5270



11N40MIMO\_Ant2\_5270



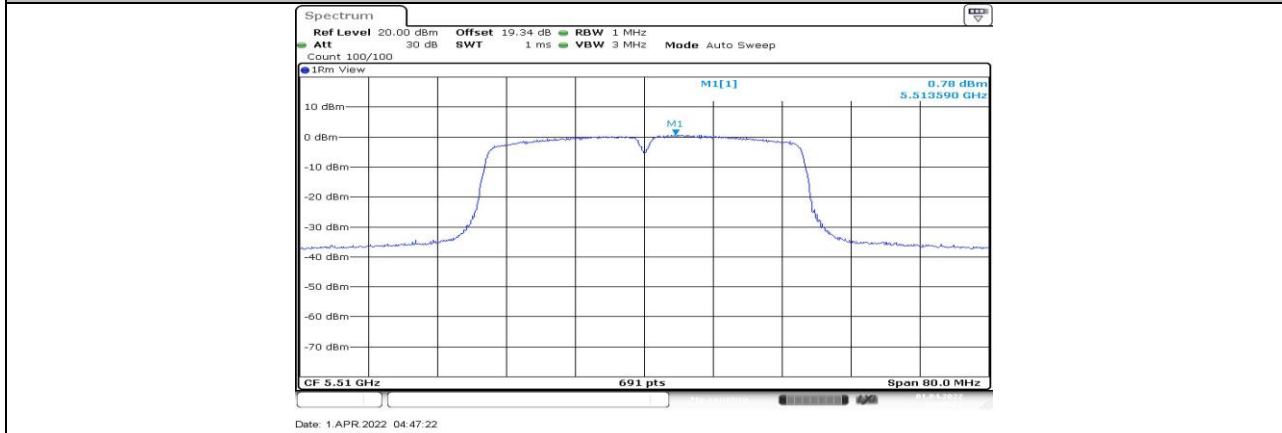
11N40MIMO\_Ant1\_5310



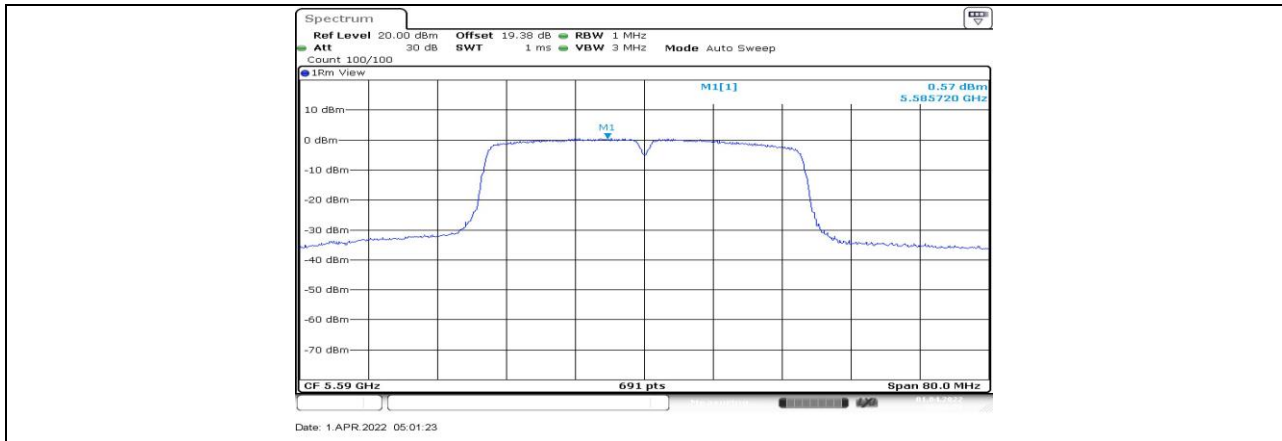
11N40MIMO\_Ant2\_5310



11N40MIMO\_Ant1\_5510



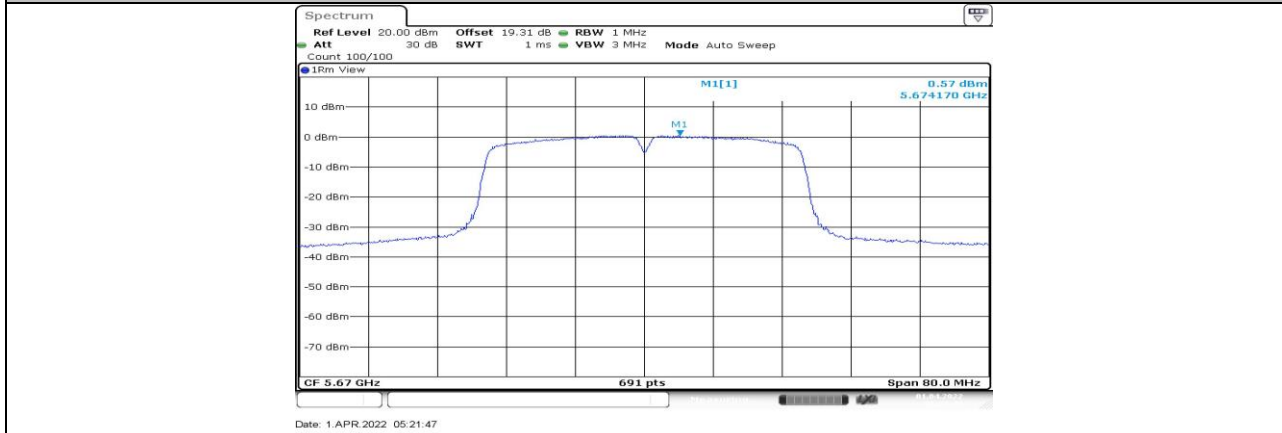
11N40MIMO\_Ant2\_5510



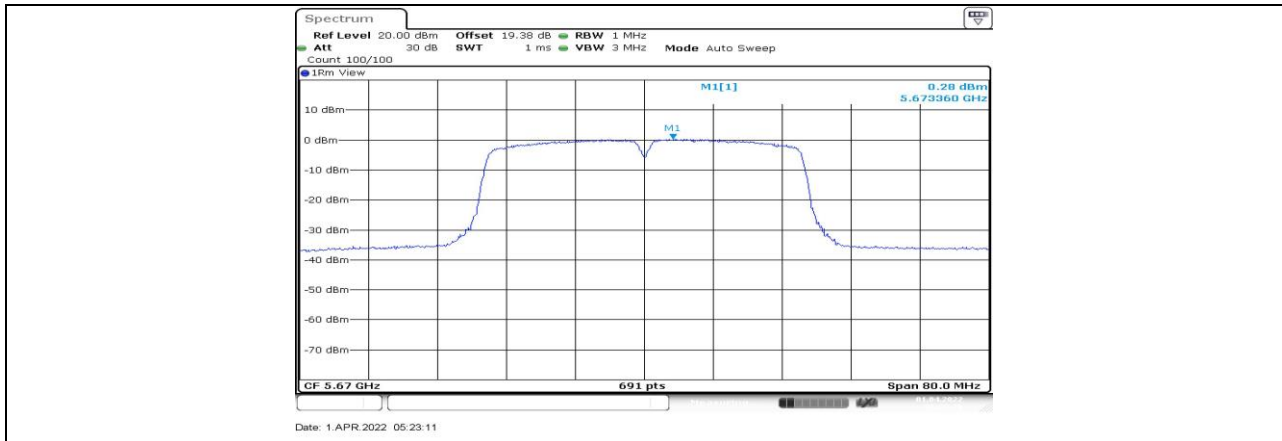
11N40MIMO\_Ant1\_5590



11N40MIMO\_Ant2\_5590



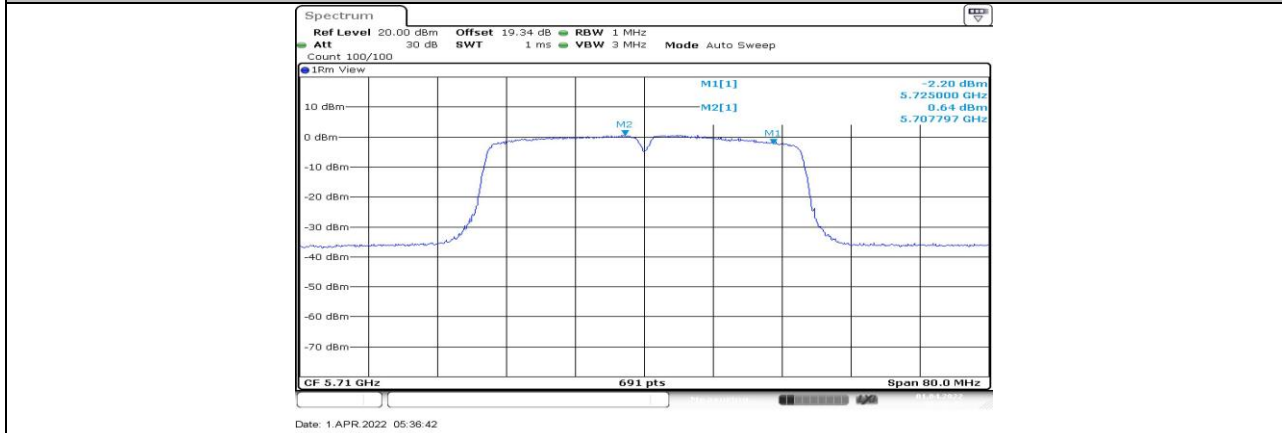
11N40MIMO\_Ant1\_5670



11N40MIMO\_Ant2\_5670



11N40MIMO\_Ant1\_5710\_UNII-2C



11N40MIMO\_Ant2\_5710\_UNII-2C

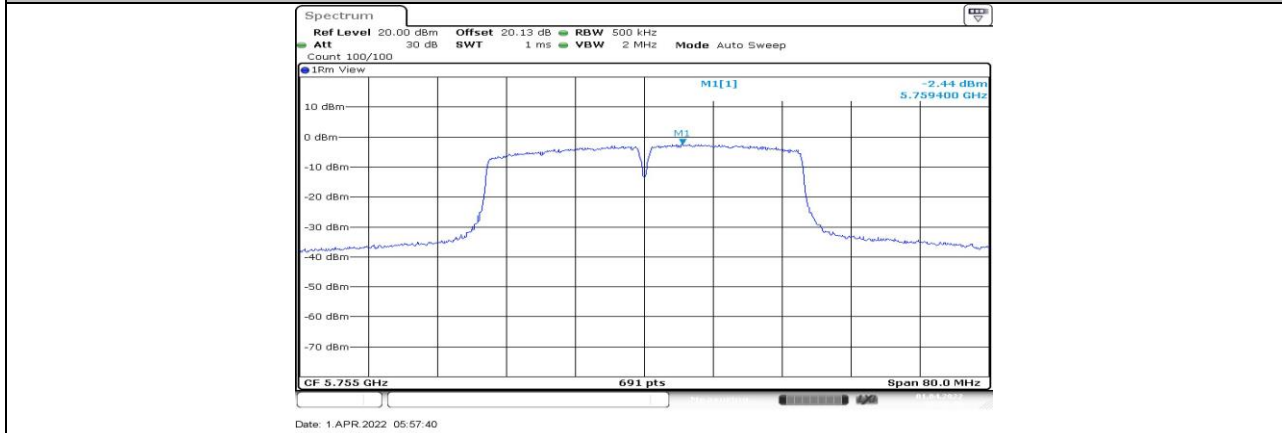




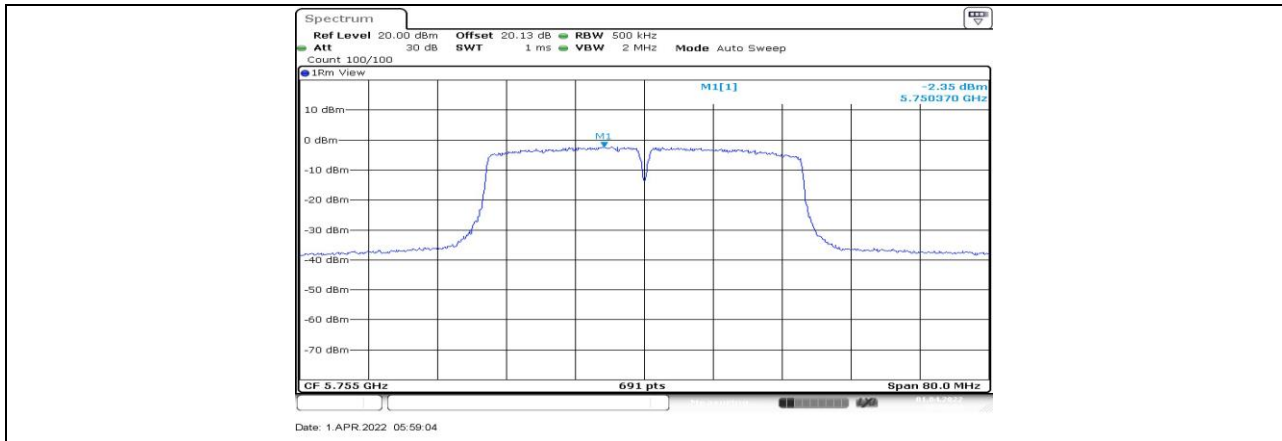
11N40MIMO\_Ant1\_5710\_UNII-3



11N40MIMO\_Ant2\_5710\_UNII-3



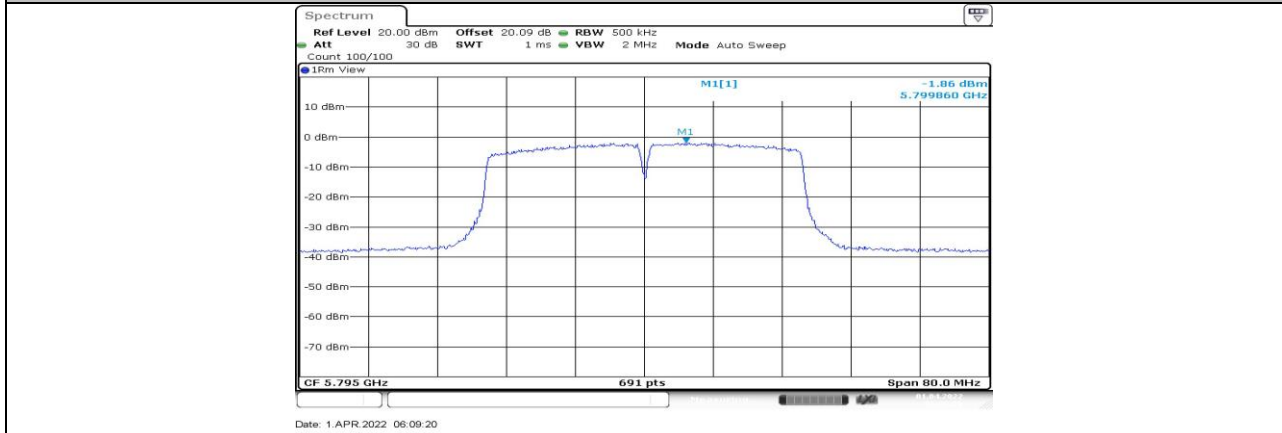
11N40MIMO\_Ant1\_5755



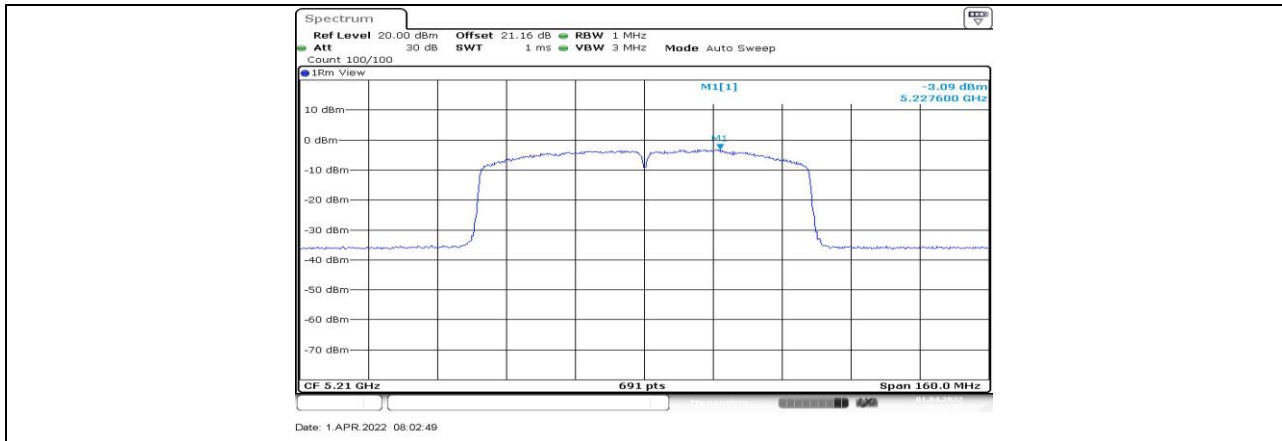
11N40MIMO\_Ant2\_5755



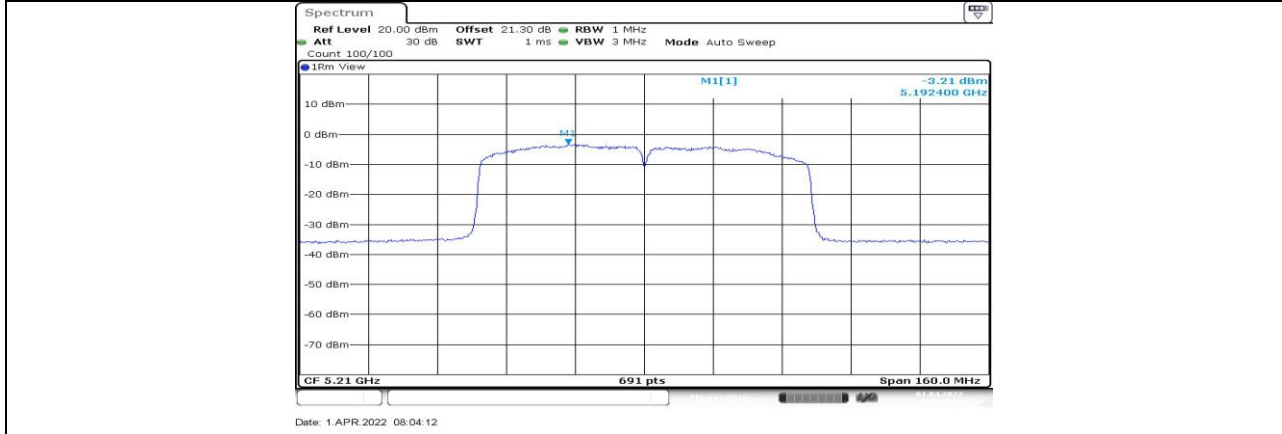
11N40MIMO\_Ant1\_5795



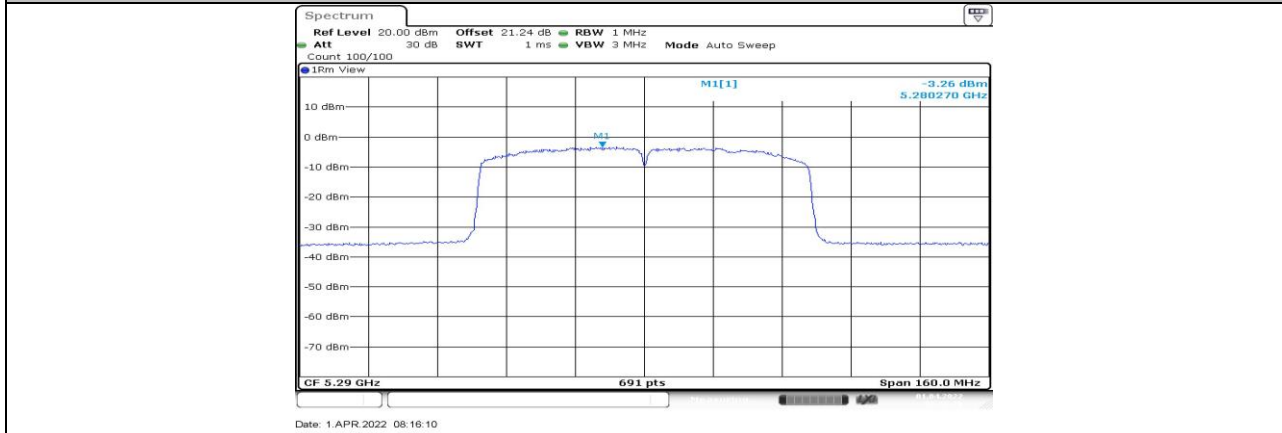
11N40MIMO\_Ant2\_5795



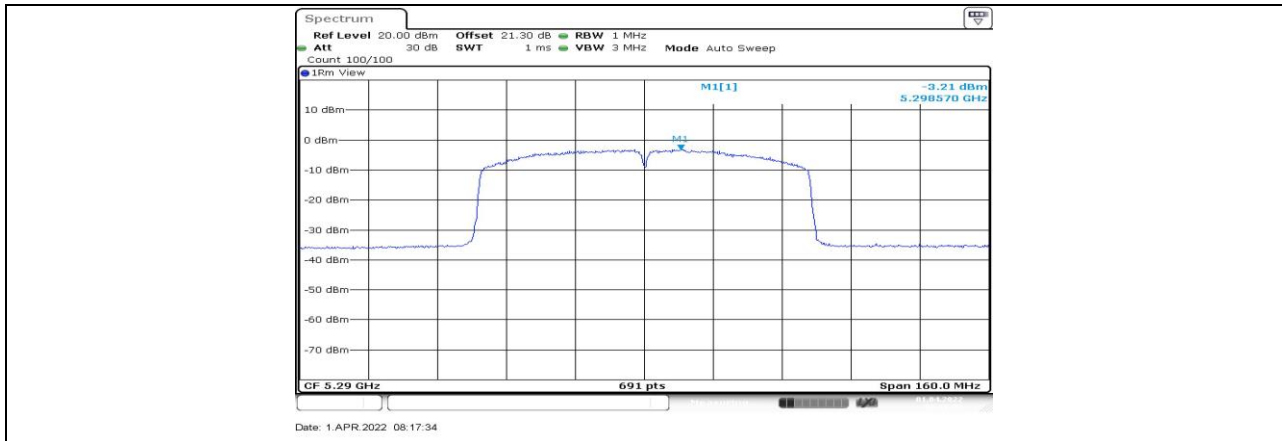
11AC80MIMO\_Ant1\_5210



11AC80MIMO\_Ant2\_5210



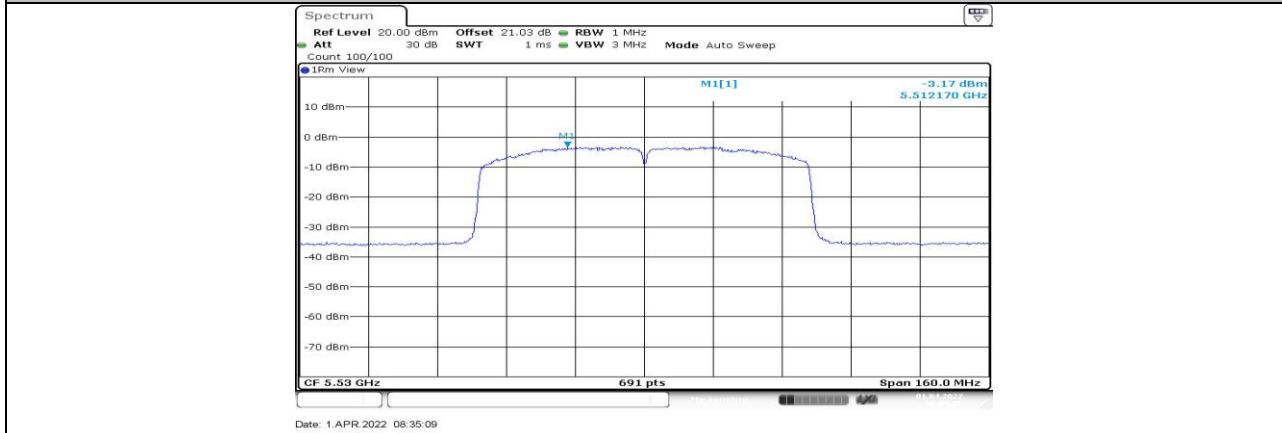
11AC80MIMO\_Ant1\_5290



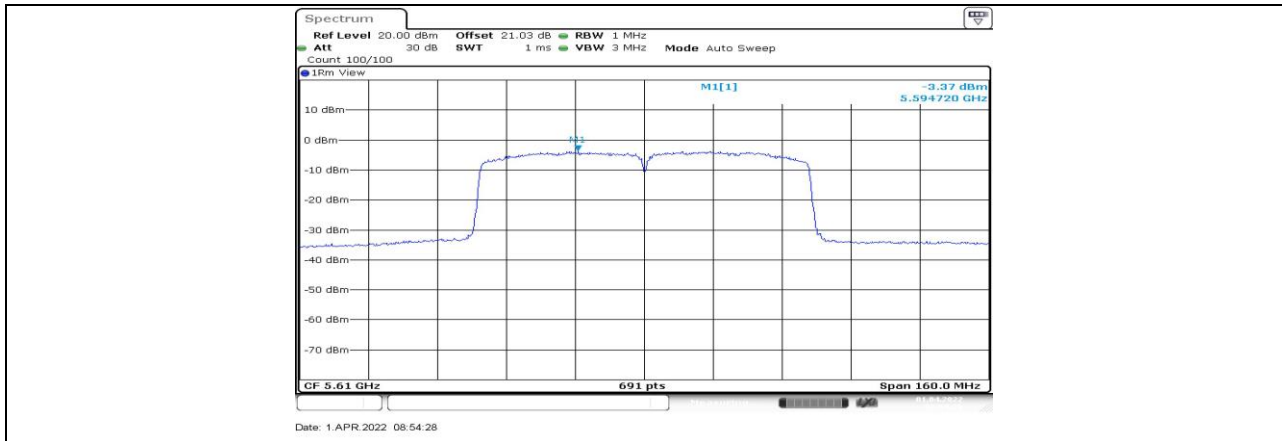
11AC80MIMO\_Ant2\_5290



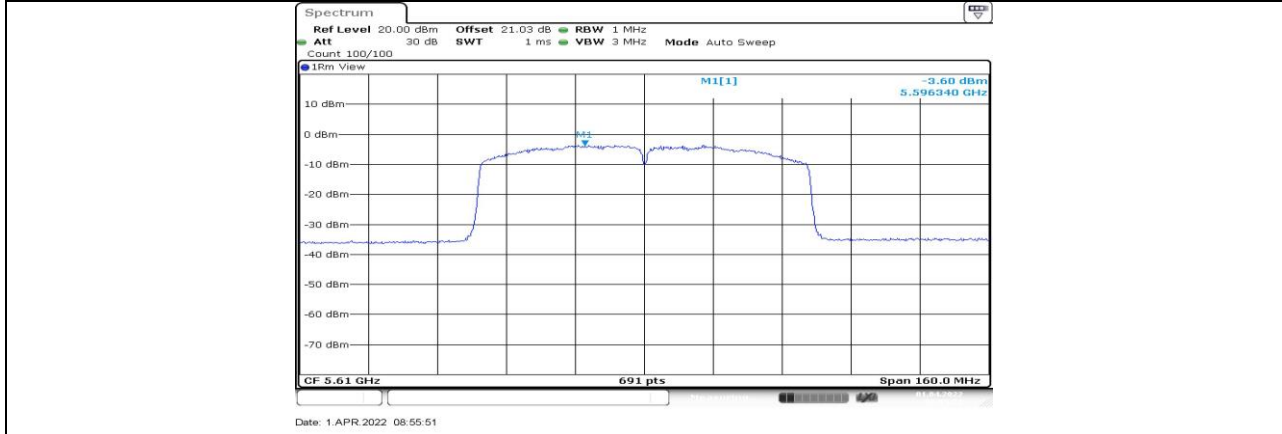
11AC80MIMO\_Ant1\_5530



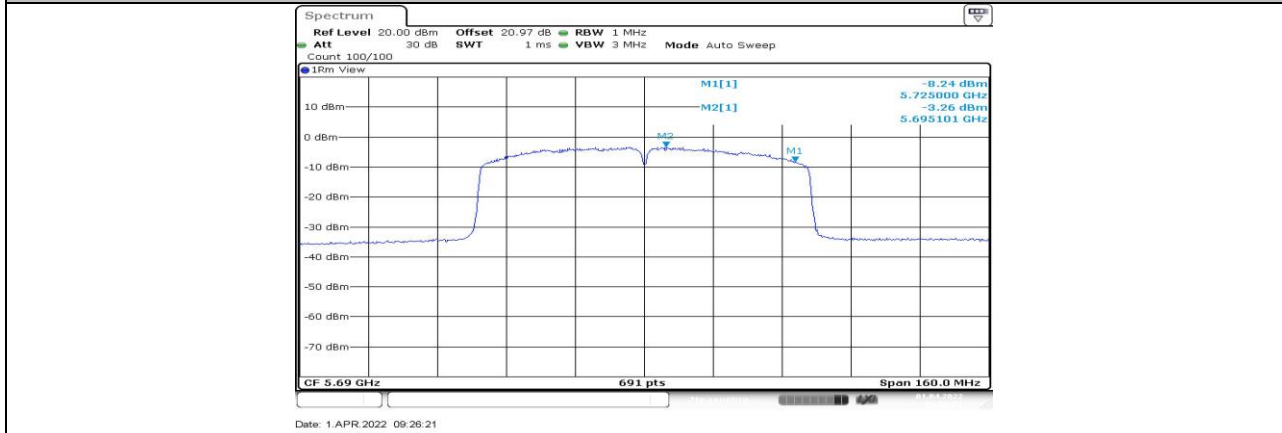
11AC80MIMO\_Ant2\_5530



11AC80MIMO\_Ant1\_5610



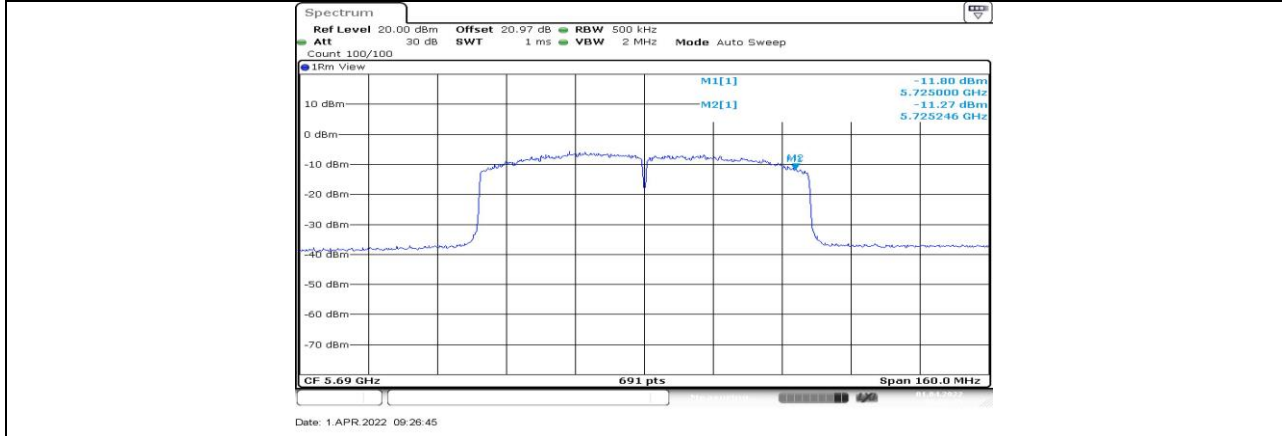
11AC80MIMO\_Ant2\_5610



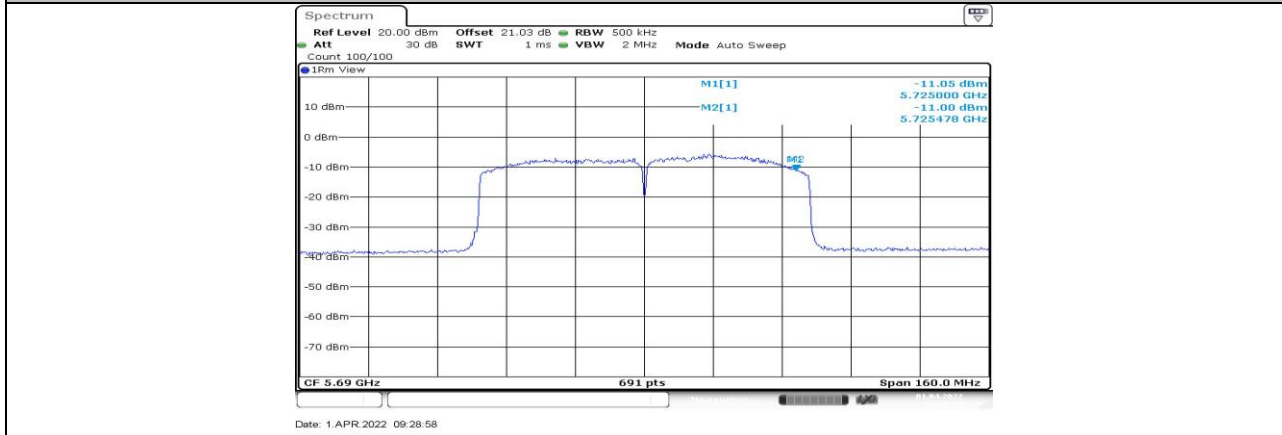
11AC80MIMO\_Ant1\_5690\_UNII-2C



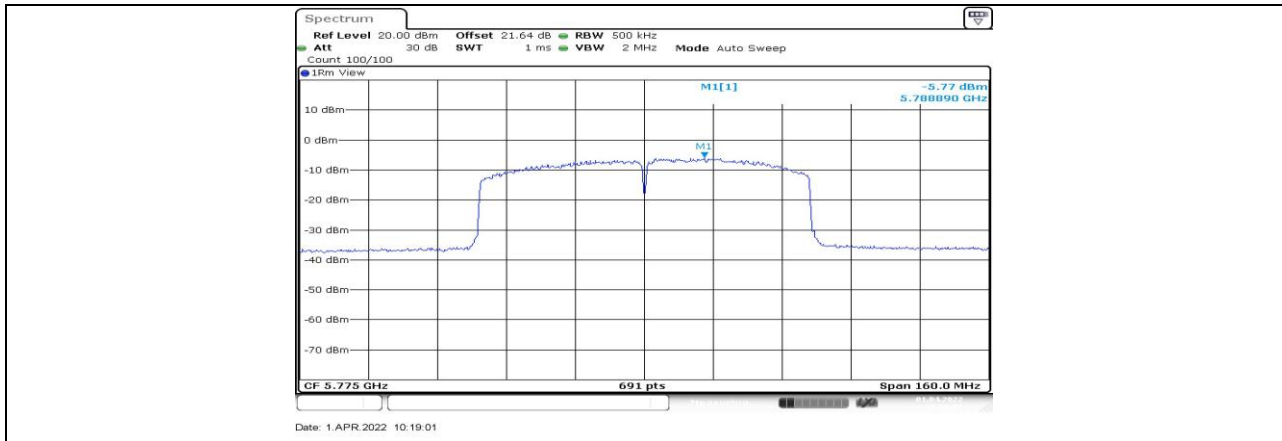
11AC80MIMO\_Ant2\_5690\_UNII-2C



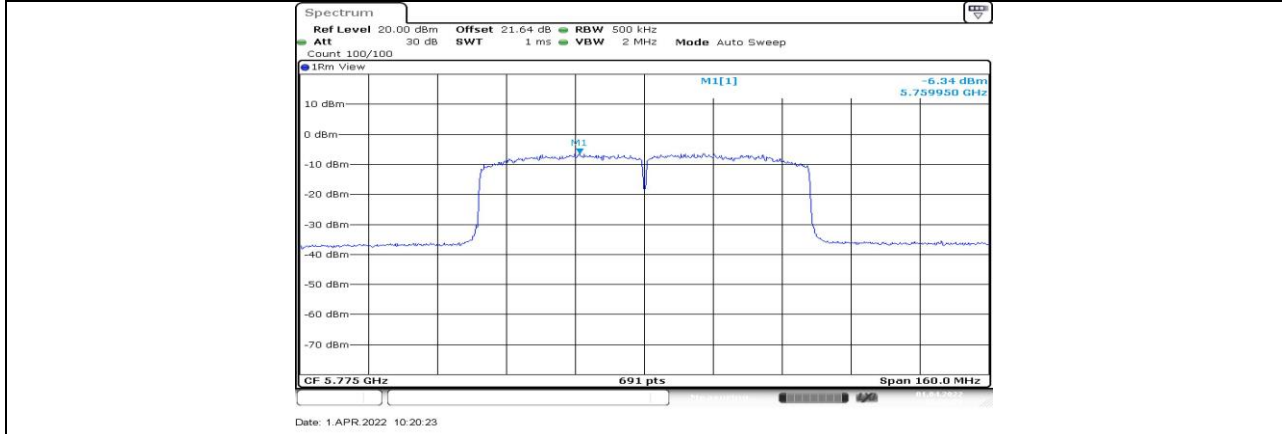
11AC80MIMO\_Ant1\_5690\_UNII-3



11AC80MIMO\_Ant2\_5690\_UNII-3



11AC80MIMO\_Ant1\_5775



11AC80MIMO\_Ant2\_5775



## 12.6. Appendix D: Duty Cycle

### 12.6.1. 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	1.85	0.7297	72.97	1.37	0.74	1
11N20MIMO	1.26	1.75	0.7200	72.00	1.43	0.79	1
11N40MIMO	0.62	1.12	0.5536	55.36	2.57	1.61	2
11AC80MIMO	0.31	0.80	0.3875	38.75	4.12	3.23	4

Note:

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

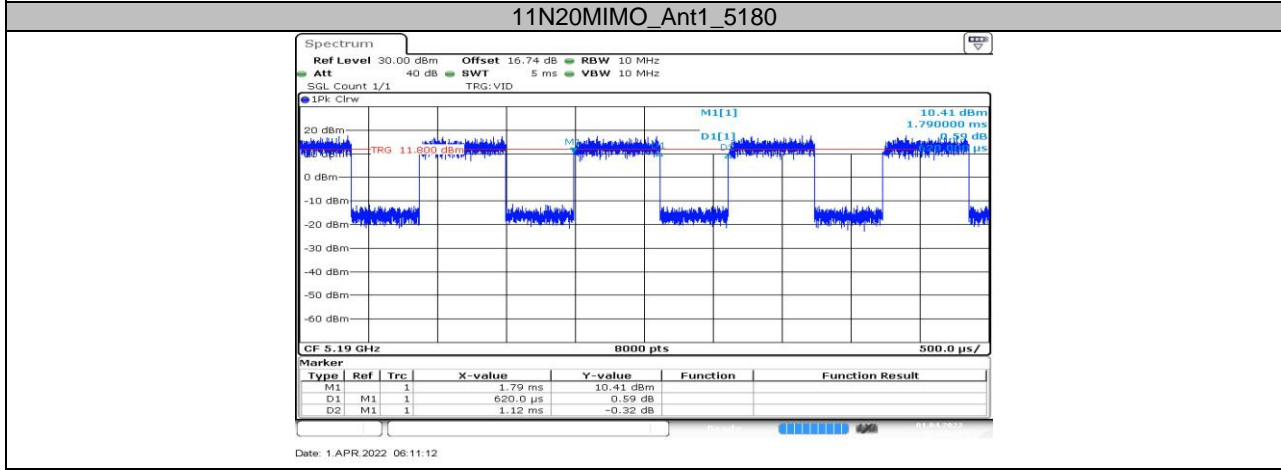
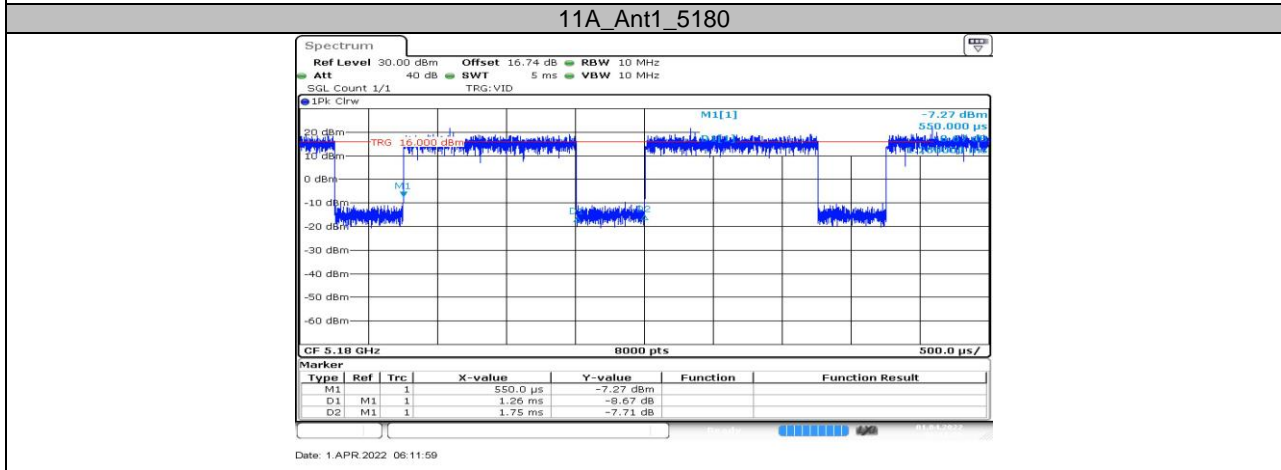
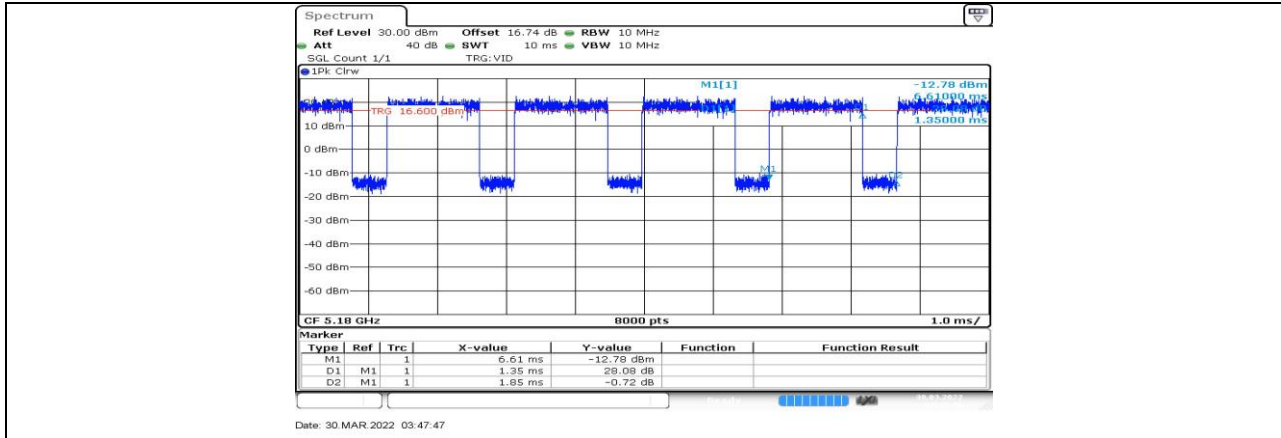
Where: x is Duty Cycle (Linear)

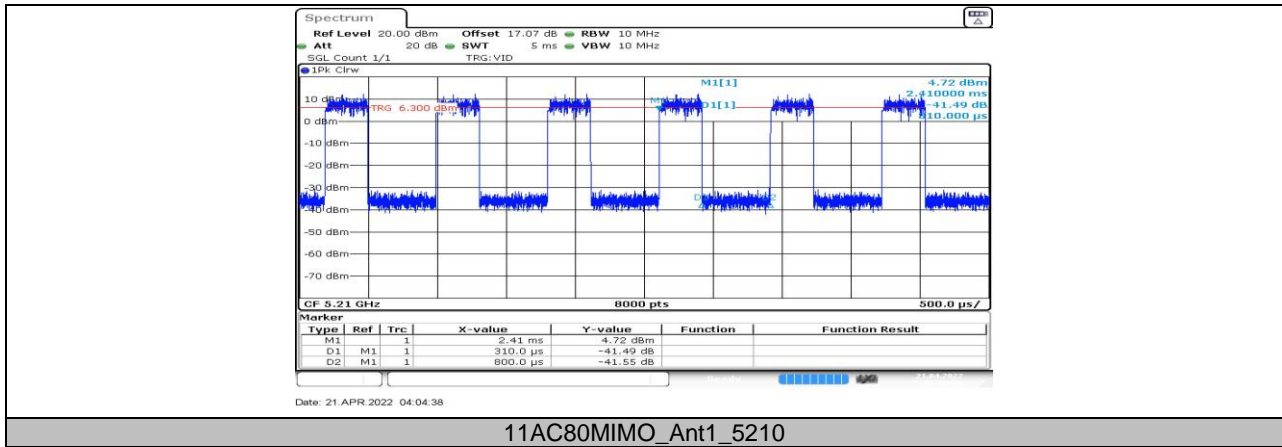
Where: T is On Time

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



### 12.6.2. Test Graphs







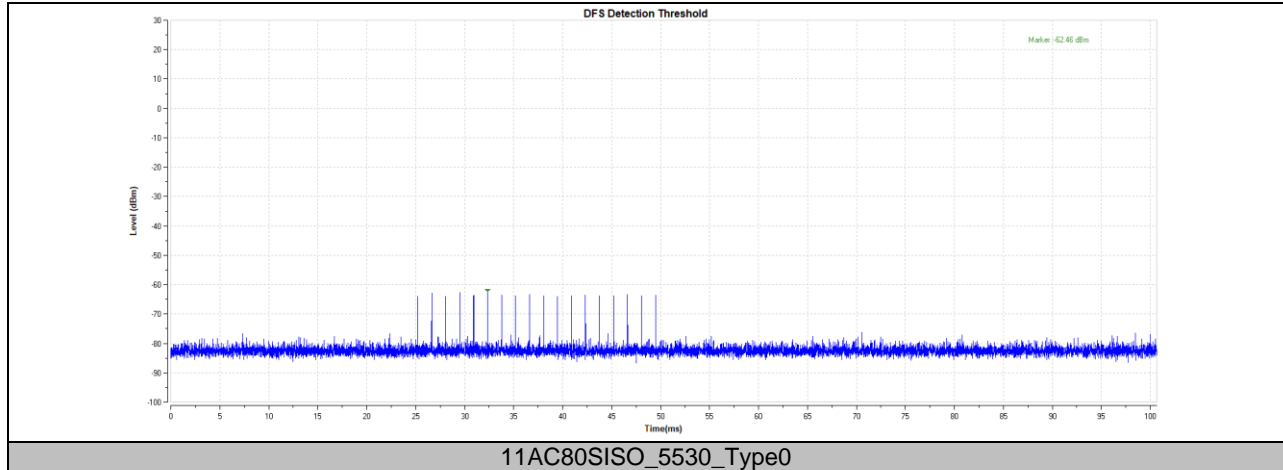
## 12.7. Appendix E: DFS Detection Thresholds

### 12.7.1. Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.46	-59.00	PASS



### 12.7.2. Test Graphs



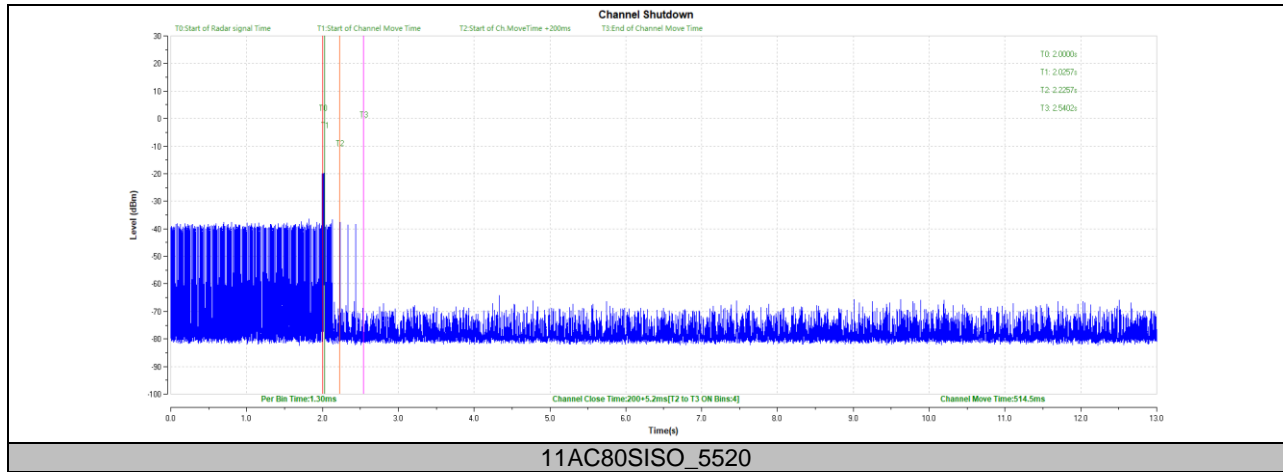


## 12.8. Appendix F: Channel Move Time and Channel Closing Transmission Time

### 12.8.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5520	200+5.2	200+60	514.5	10000	PASS

### 12.8.2. Test Graphs



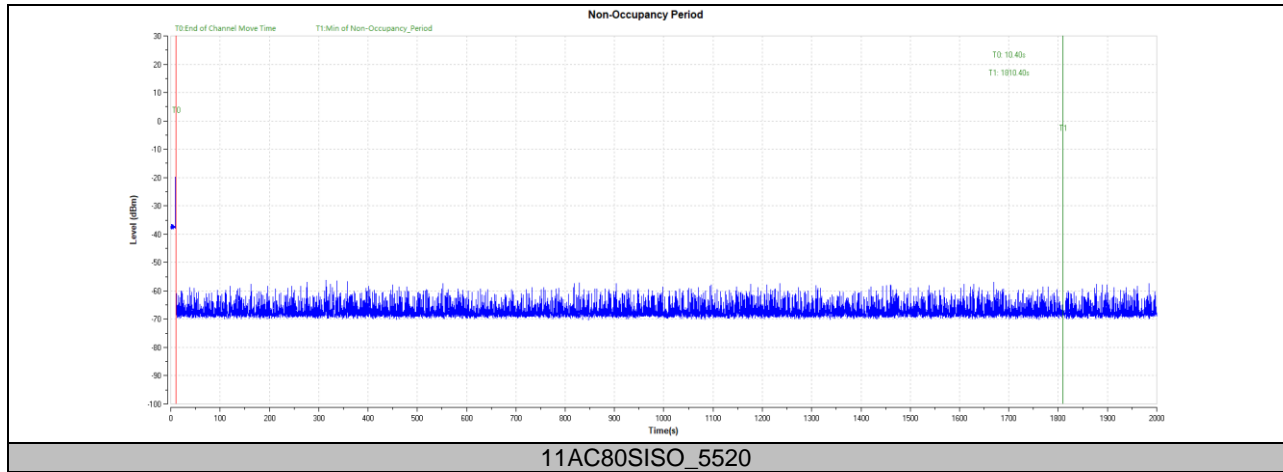


## 12.9. Appendix G: Non-Occupancy Period

### Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80SISO	5520	see test graph	≥1800	PASS

### 12.9.1. Test Graphs







**12.10. Appendix H: Frequency Stability**

**12.10.1. Test Result**

Frequency Error vs. Voltage									
802.11a20:5200MHz									
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	5199.9854	-2.81	5200.0230	4.41	5199.9795	-3.94	5200.0070	1.34
TN	VN	5200.0203	3.90	5200.0023	0.43	5200.0149	2.86	5199.9756	-4.70
TN	VH	5199.9977	-0.43	5199.9933	-1.28	5199.9805	-3.74	5199.9879	-2.33
Frequency Error vs. Temperature									
802.11a: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	5200.0014	0.27	5200.0145	2.79	5200.0066	1.26	5200.0162	3.11
60	VN	5200.0095	1.83	5200.0143	2.75	5200.0185	3.55	5200.0153	2.94
50	VN	5200.0115	2.22	5199.9926	-1.41	5200.0047	0.91	5200.0064	1.23
40	VN	5200.0060	1.15	5199.9902	-1.88	5200.0178	3.43	5200.0182	3.51
30	VN	5199.9824	-3.39	5199.9824	-3.38	5199.9822	-3.42	5199.9959	-0.78
20	VN	5199.9845	-2.97	5200.0054	1.05	5199.9802	-3.81	5199.9860	-2.69
10	VN	5200.0088	1.69	5199.9919	-1.57	5199.9991	-0.16	5200.0249	4.78
0	VN	5200.0215	4.13	5200.0050	0.96	5200.0182	3.50	5200.0092	1.76

Note:

1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 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	5825.0114	1.96	5824.9774	-3.88	5825.0148	2.54	5825.0076	1.30
TN	VN	5824.9946	-0.92	5824.9843	-2.69	5824.9815	-3.18	5824.9994	-0.10
TN	VH	5824.9976	-0.41	5824.9754	-4.21	5824.9855	-2.48	5825.0102	1.75
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	5824.9785	-3.69	5824.9759	-4.14	5824.9774	-3.88	5825.0151	2.59
60	VN	5824.9973	-0.46	5824.9858	-2.44	5825.0243	4.17	5825.0175	3.00
50	VN	5825.0136	2.33	5825.0138	2.36	5825.0053	0.91	5825.0079	1.35
40	VN	5825.0053	0.92	5824.9751	-4.27	5825.0181	3.10	5824.9979	-0.37
30	VN	5824.9975	-0.43	5825.0131	2.25	5825.0099	1.70	5825.0183	3.14
20	VN	5825.0115	1.98	5825.0195	3.35	5824.9918	-1.40	5825.0055	0.95
10	VN	5824.9897	-1.76	5824.9900	-1.71	5825.0211	3.61	5825.0036	0.61
0	VN	5824.9984	-0.27	5825.0091	1.57	5825.0137	2.35	5825.0068	1.17

Note:

1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

**END OF REPORT**