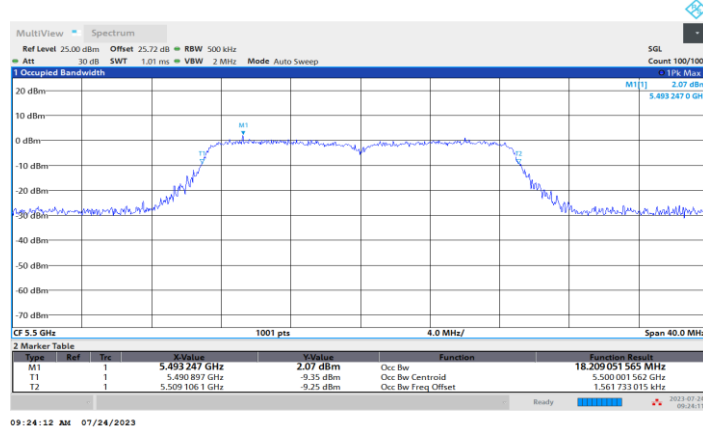
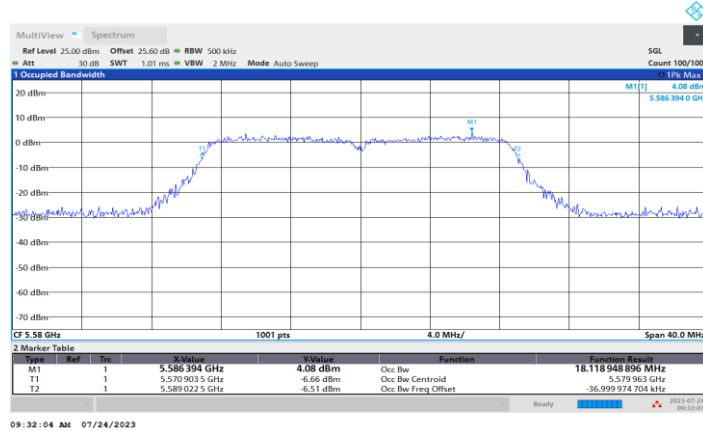


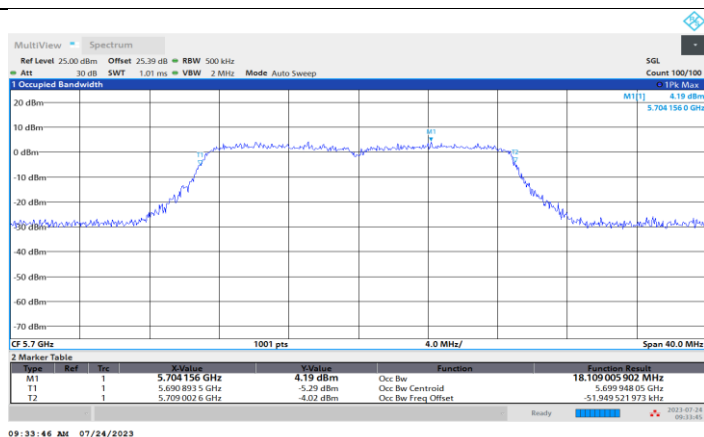
11N20SISO_Ant3_5320



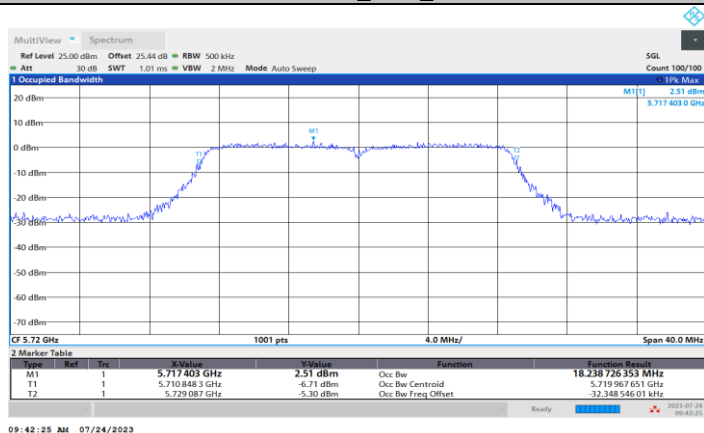
11N20SISO_Ant3_5500



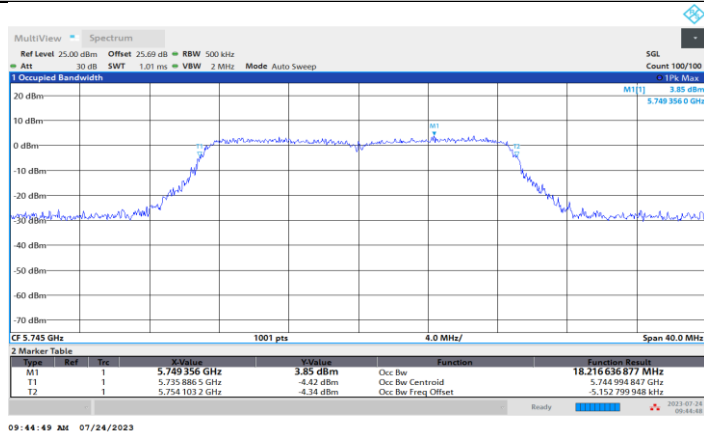
11N20SISO_Ant3_5580



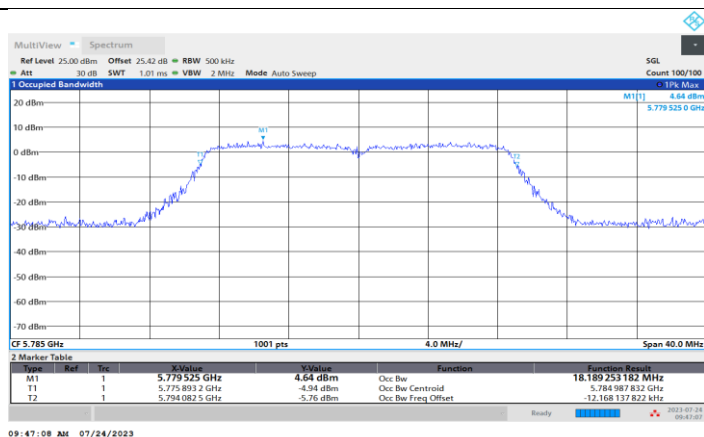
11N20SISO_Ant3_5700



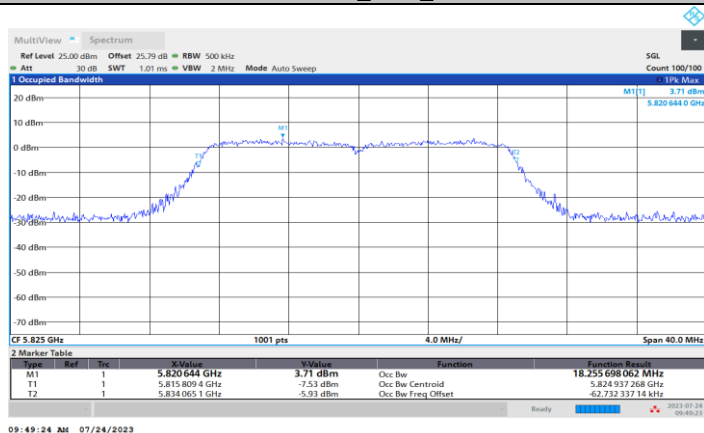
11N20SISO_Ant3_5720



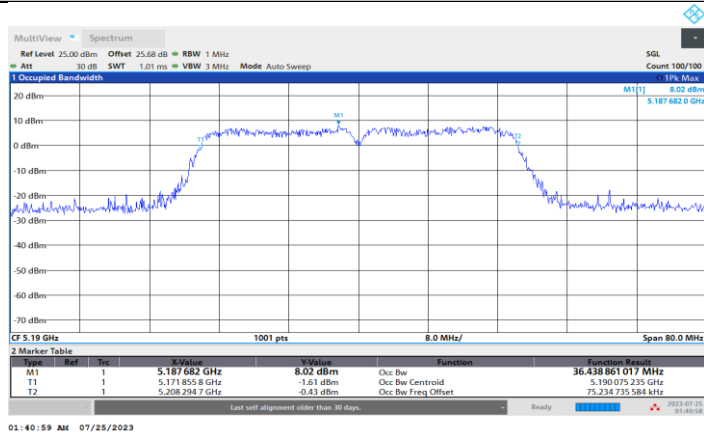
11N20SISO_Ant3_5745



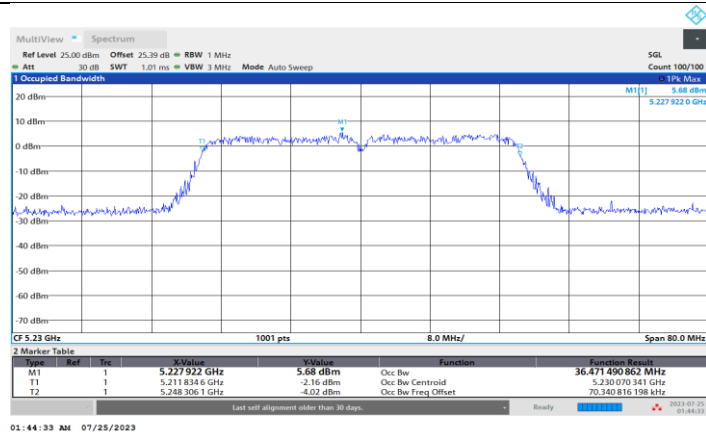
11N20SISO_Ant3_5785



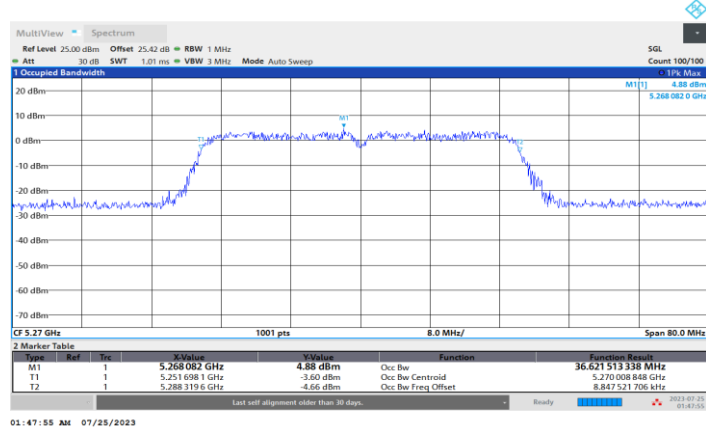
11N20SISO_Ant3_5825



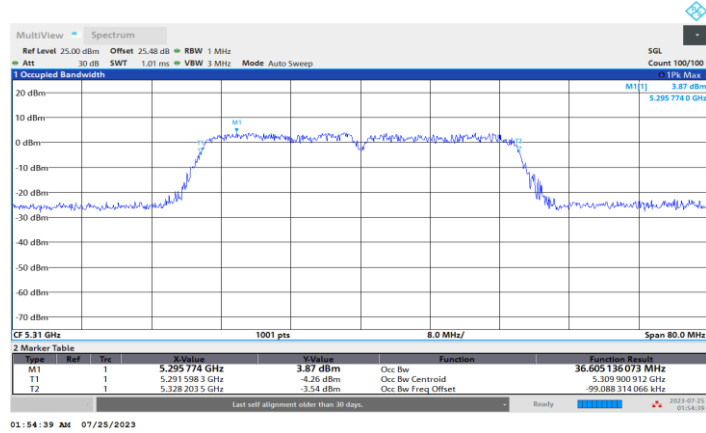
11N40SISO_Ant3_5190



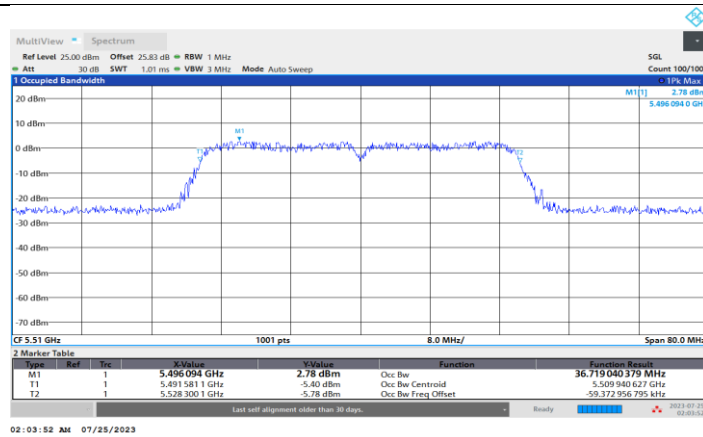
11N40SISO_Ant3_5230



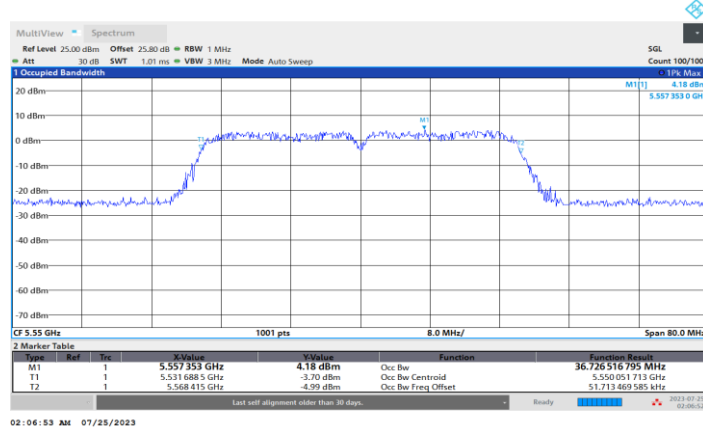
11N40SISO_Ant3_5270



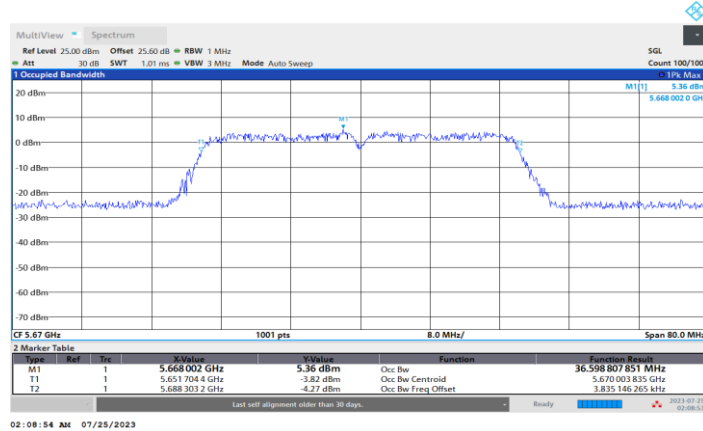
11N40SISO_Ant3_5310



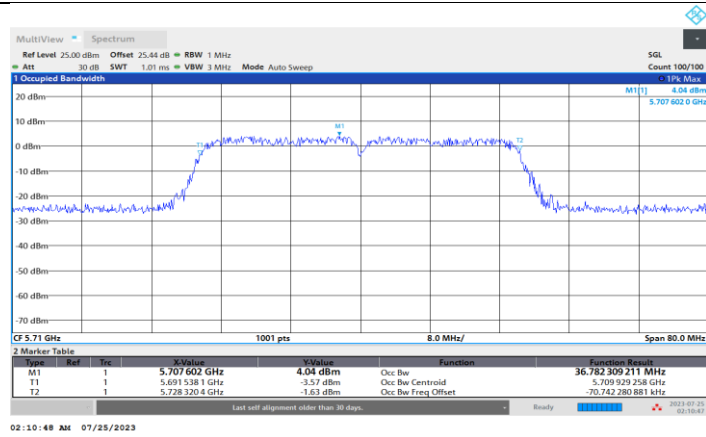
11N40SISO_Ant3_5510



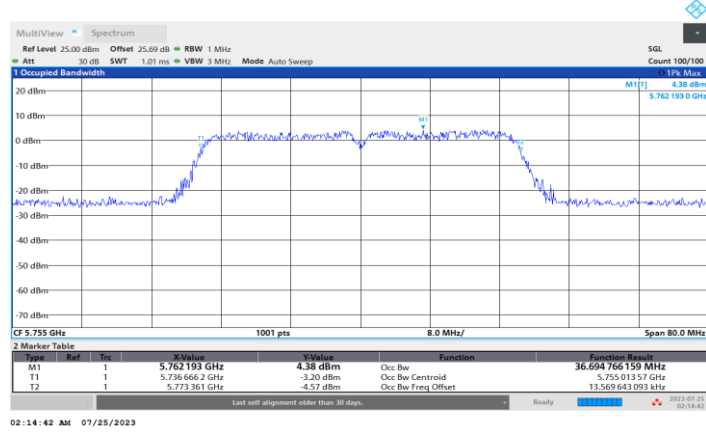
11N40SISO_Ant3_5550



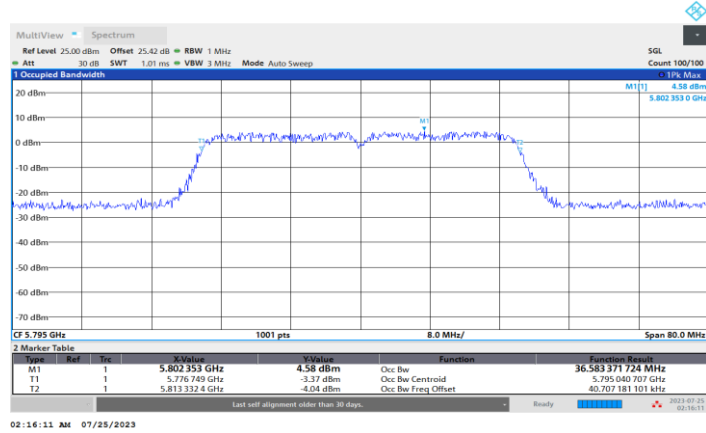
11N40SISO_Ant3_5670



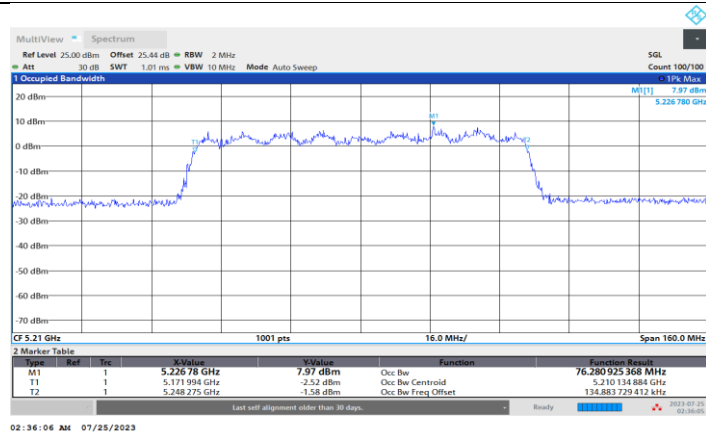
11N40SISO_Ant3_5710



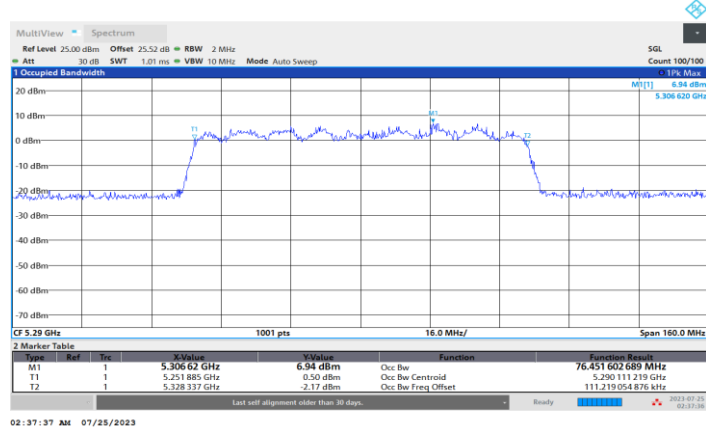
11N40SISO_Ant3_5755



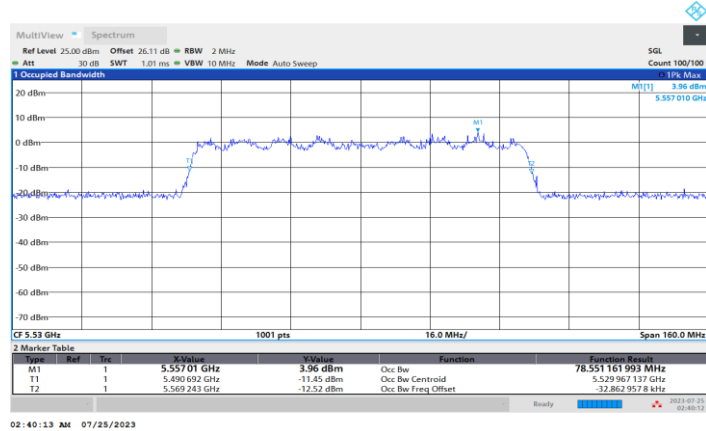
11N40SISO_Ant3_5795



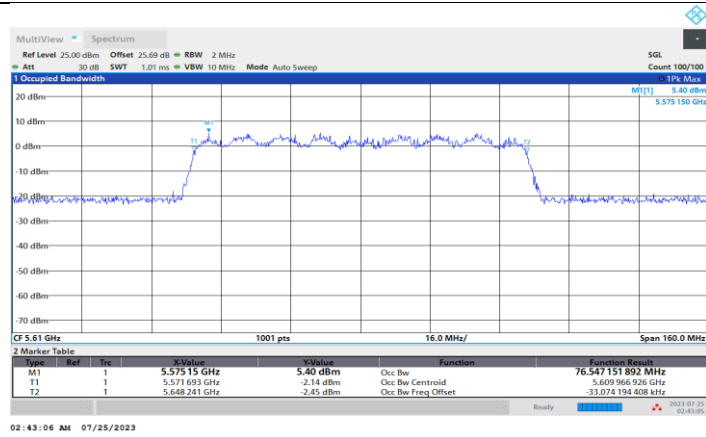
11AC80SISO_Ant3_5210



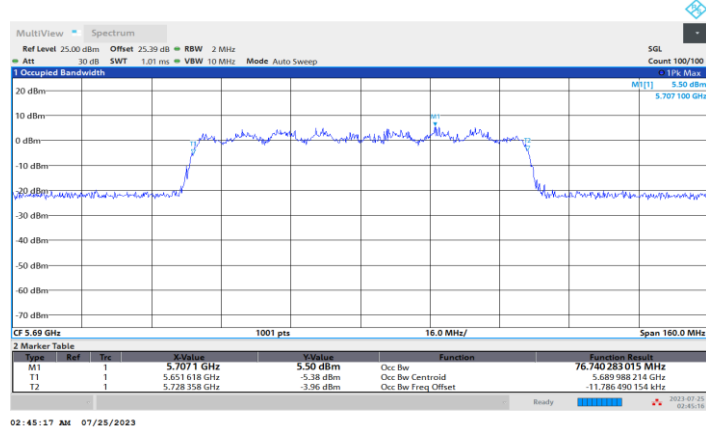
11AC80SISO_Ant3_5290



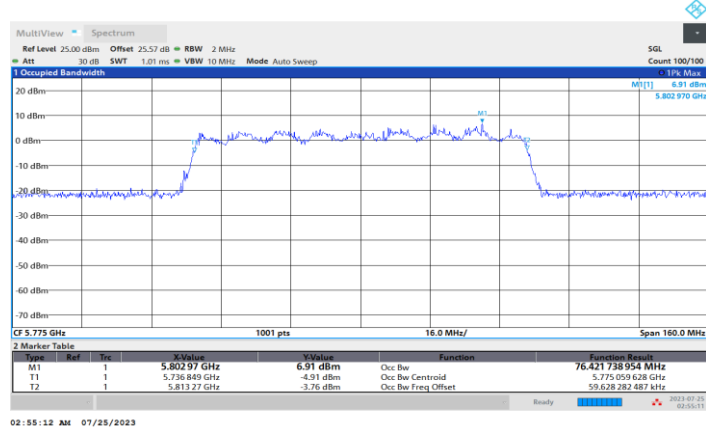
11AC80SISO_Ant3_5530



11AC80SISO_Ant3_5610



11AC80SISO_Ant3_5690



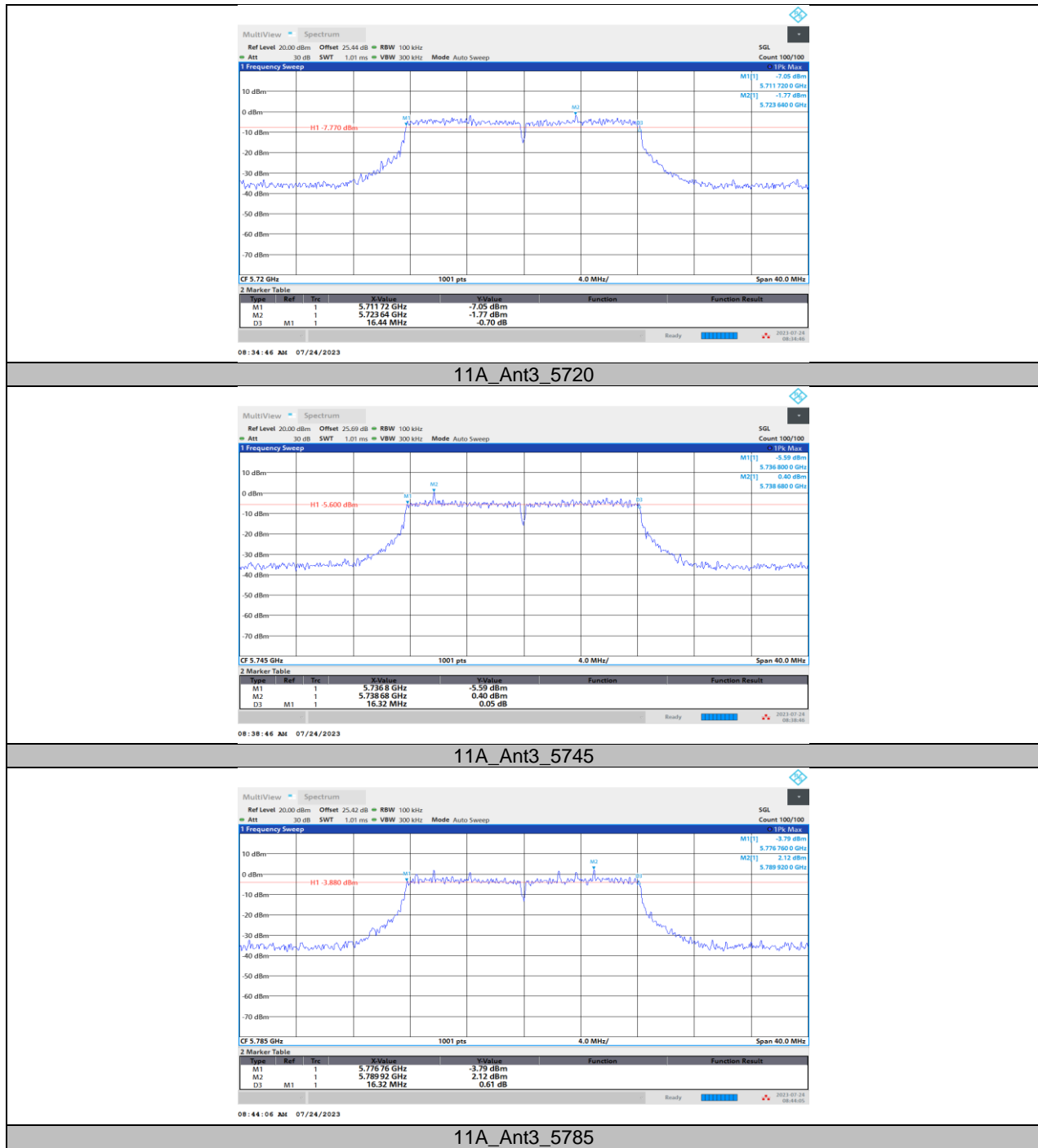
11AC80SISO_Ant3_5775

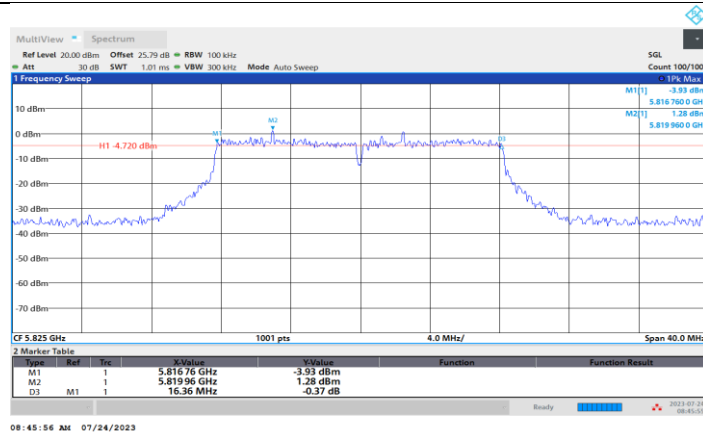
11.3. APPENDIX A3: MIN EMISSION BANDWIDTH

11.3.1. Test Result

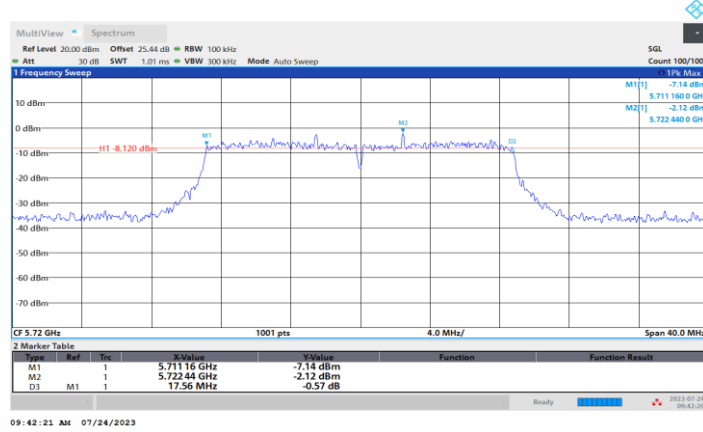
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant3	5720	16.44	5711.72	5728.16	≥ 0.5	PASS
		5720_UNII-3	3.16	5725	5728.16	≥ 0.5	PASS
		5745	16.32	5736.80	5753.12	≥ 0.5	PASS
		5785	16.32	5776.76	5793.08	≥ 0.5	PASS
		5825	16.36	5816.76	5833.12	≥ 0.5	PASS
11N20SISO	Ant3	5720	17.56	5711.16	5728.72	≥ 0.5	PASS
		5720_UNII-3	3.72	5725	5728.72	≥ 0.5	PASS
		5745	17.56	5736.16	5753.72	≥ 0.5	PASS
		5785	17.32	5776.40	5793.72	≥ 0.5	PASS
		5825	17.56	5816.16	5833.72	≥ 0.5	PASS
11N40SISO	Ant3	5710	34.72	5692.80	5727.52	≥ 0.5	PASS
		5710_UNII-3	2.52	5725	5727.52	≥ 0.5	PASS
		5755	35.68	5737.48	5773.16	≥ 0.5	PASS
		5795	34.40	5778.12	5812.52	≥ 0.5	PASS
11AC80SISO	Ant3	5690	73.28	5654.32	5727.60	≥ 0.5	PASS
		5690_UNII-3	2.6	5725	5727.60	≥ 0.5	PASS
		5775	73.92	5738.68	5812.60	≥ 0.5	PASS

11.3.2. Test Graphs

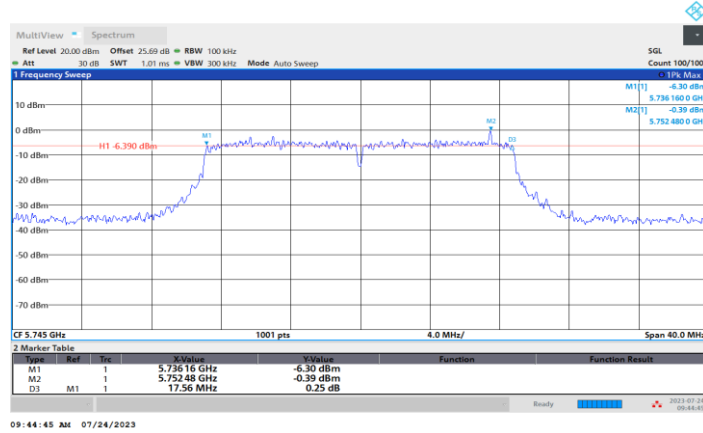




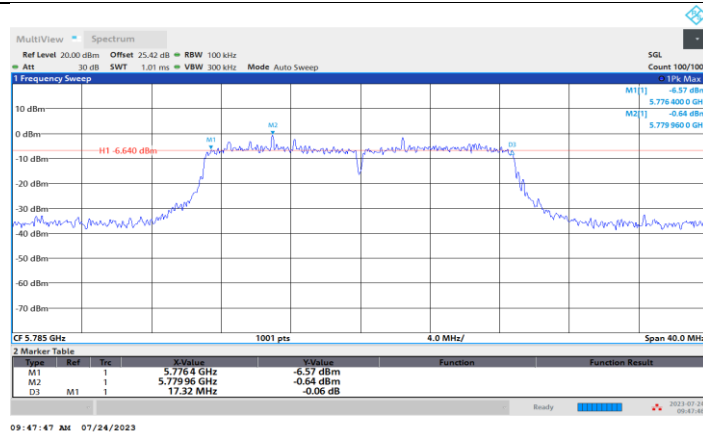
11A_Ant3_5825



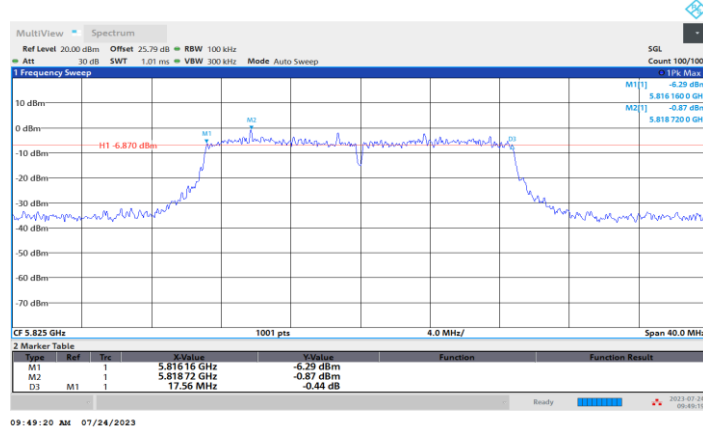
11N20SISO_Ant3_5720



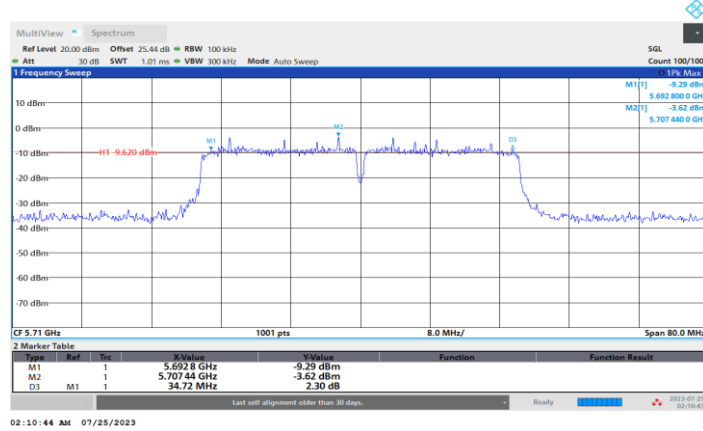
11N20SISO_Ant3_5745



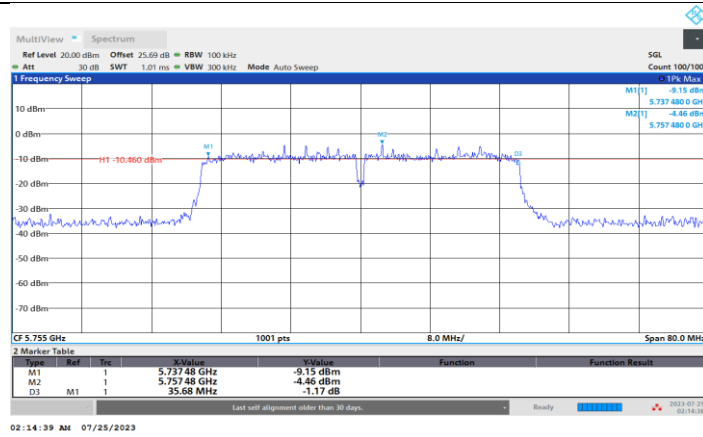
11N20SISO_Ant3_5785



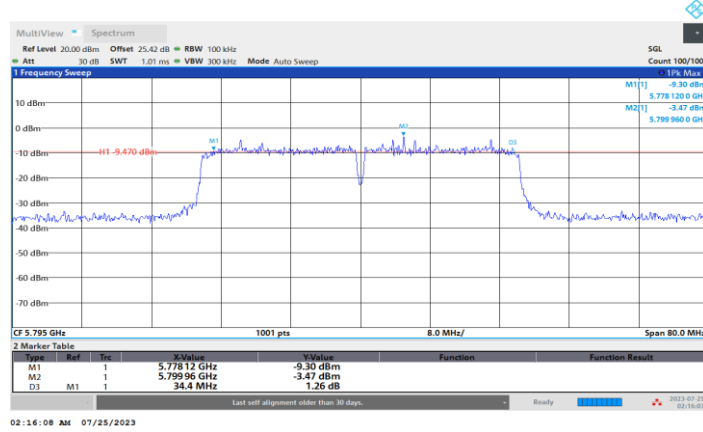
11N20SISO_Ant3_5825



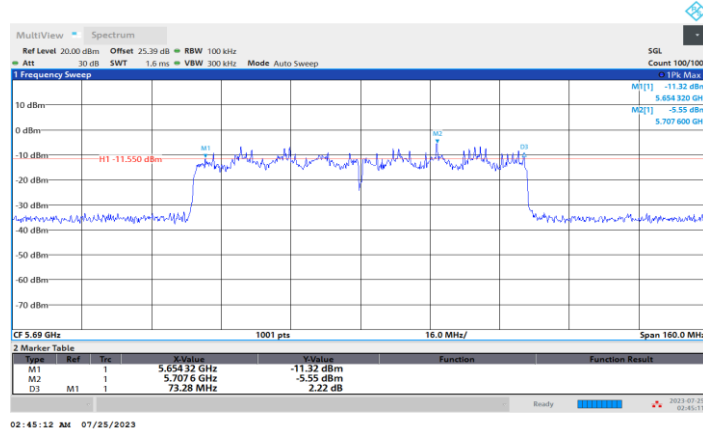
11N40SISO_Ant3_5710



11N40ISO_Ant3_5755



11N40ISO_Ant3_5795



11AC80ISO_Ant3_5690



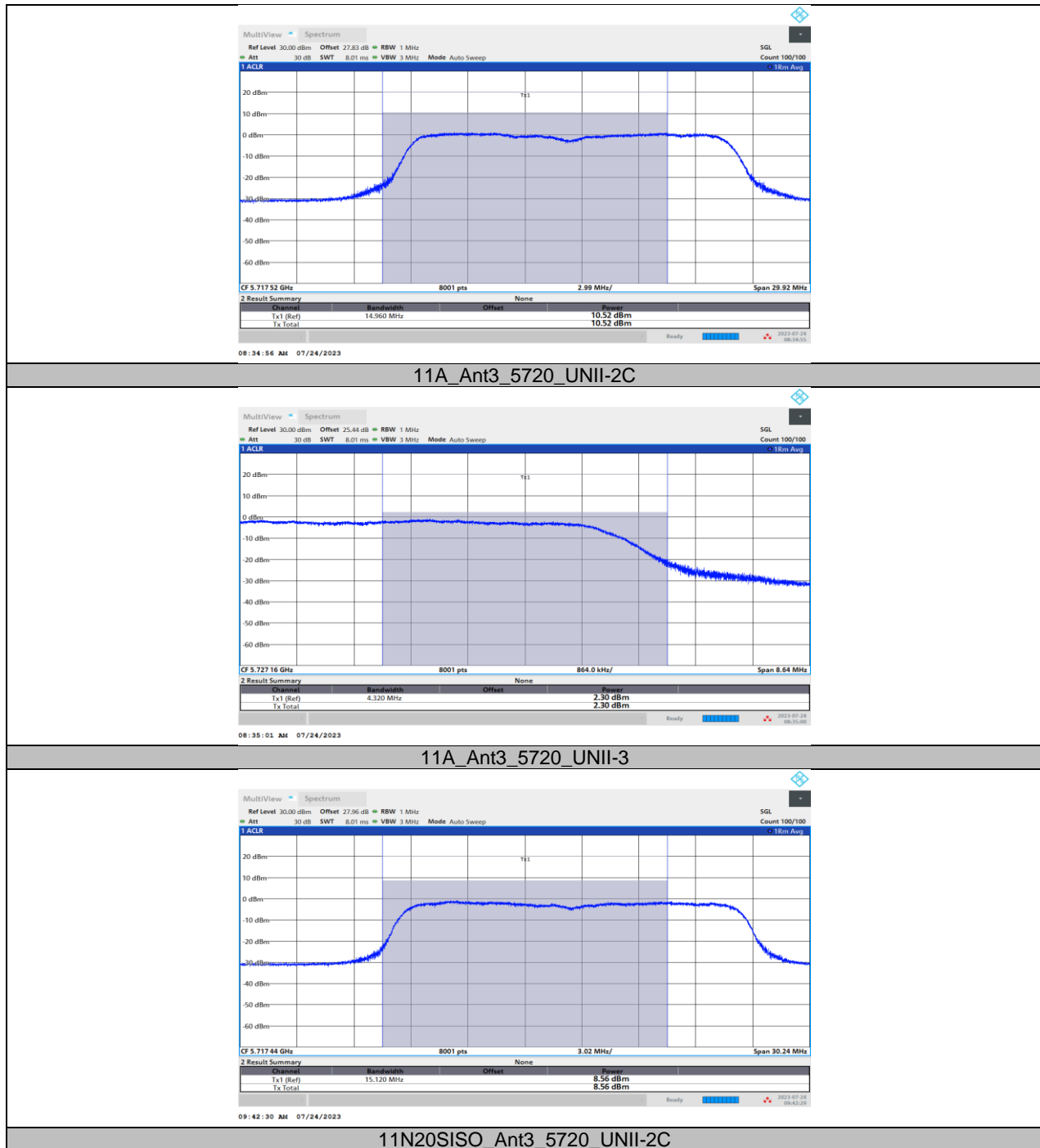
11.4. APPENDIX B: MAXIMUM CONDUCTED OUTPUT POWER

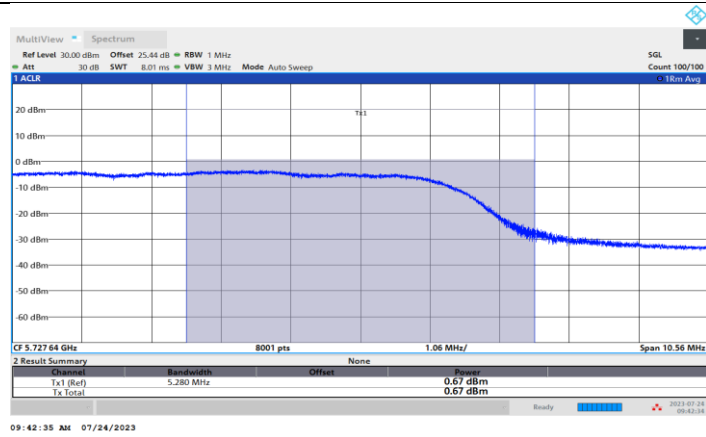
11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant3	5180	12.17	≤23.98	---	17.12	≤22.30	PASS
		5200	12.67	≤23.98	---	17.62	≤22.25	PASS
		5240	12.55	≤23.98	---	17.50	≤22.36	PASS
		5260	12.11	≤23.97	≤23.37	17.06	≤29.37	PASS
		5280	12.44	≤23.98	≤23.36	17.39	≤29.36	PASS
		5320	12.25	≤23.98	≤23.37	17.20	≤29.37	PASS
		5500	12.04	≤23.98	≤23.37	16.99	≤29.37	PASS
		5580	12.19	≤23.86	≤23.37	17.14	≤29.37	PASS
		5700	12.41	≤23.91	≤23.37	17.36	≤29.37	PASS
		5720_UNII-2C	10.52	≤22.75	≤22.37	15.47	≤28.37	PASS
		5720_UNII-3	2.30	≤30.00	≤30.00	7.25	---	PASS
		5745	12.60	≤30.00	≤30.00	17.55	---	PASS
		5785	12.33	≤30.00	≤30.00	17.28	---	PASS
		5825	12.58	≤30.00	≤30.00	17.53	---	PASS
11N20SISO	Ant3	5180	10.50	≤23.98	---	15.45	≤22.60	PASS
		5200	10.37	≤23.98	---	15.32	≤22.59	PASS
		5240	10.57	≤23.98	---	15.52	≤22.59	PASS
		5260	10.18	≤23.98	≤23.60	15.13	≤29.60	PASS
		5280	10.45	≤23.98	≤23.59	15.40	≤29.59	PASS
		5320	10.19	≤23.98	≤23.60	15.14	≤29.60	PASS
		5500	10.19	≤23.98	≤23.60	15.14	≤29.60	PASS
		5580	10.44	≤23.98	≤23.58	15.39	≤29.58	PASS
		5700	10.57	≤23.98	≤23.58	15.52	≤29.58	PASS
		5720_UNII-2C	8.56	≤22.80	≤22.51	13.51	≤28.51	PASS
		5720_UNII-3	0.67	≤30.00	≤30.00	5.62	---	PASS
		5745	10.80	≤30.00	≤30.00	15.75	---	PASS
		5785	10.47	≤30.00	≤30.00	15.42	---	PASS
		5825	10.87	≤30.00	≤30.00	15.82	---	PASS
11N40SISO	Ant3	5190	10.47	≤23.98	---	15.42	≤23.00	PASS
		5230	10.07	≤23.98	---	15.02	≤23.00	PASS
		5270	10.25	≤23.98	≤23.98	15.20	≤29.98	PASS
		5310	10.42	≤23.98	≤23.98	15.37	≤29.98	PASS
		5510	10.38	≤23.98	≤23.98	15.33	≤29.98	PASS
		5550	10.43	≤23.98	≤23.98	15.38	≤29.98	PASS
		5670	10.75	≤23.98	≤23.98	15.70	≤29.98	PASS
		5710_UNII-2C	10.19	≤23.98	≤23.98	15.14	≤29.98	PASS
		5710_UNII-3	-4.74	≤30.00	≤30.00	0.21	---	PASS
		5755	10.38	≤30.00	≤30.00	15.33	---	PASS
		5795	10.87	≤30.00	≤30.00	15.82	---	PASS
11AC80SISO	Ant3	5210	10.39	≤23.98	---	15.34	≤23.00	PASS
		5290	10.10	≤23.98	≤23.98	15.05	≤29.98	PASS
		5530	10.25	≤23.98	≤23.98	15.20	≤29.98	PASS
		5610	10.45	≤23.98	≤23.98	15.40	≤29.98	PASS
		5690_UNII-2C	9.86	≤23.98	≤23.98	14.81	≤29.98	PASS
		5690_UNII-3	-10.34	≤30.00	≤30.00	-5.39	---	PASS
		5775	10.39	≤30.00	≤30.00	15.34	---	PASS

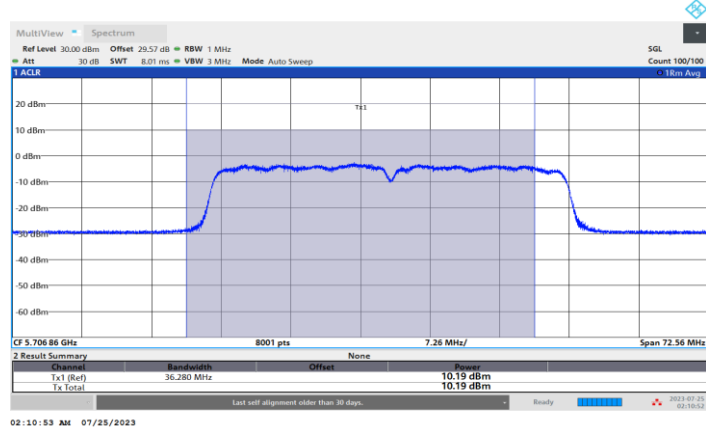
Note: The Duty Cycle Factor is compensated in the graph.

11.4.2. Test Graphs

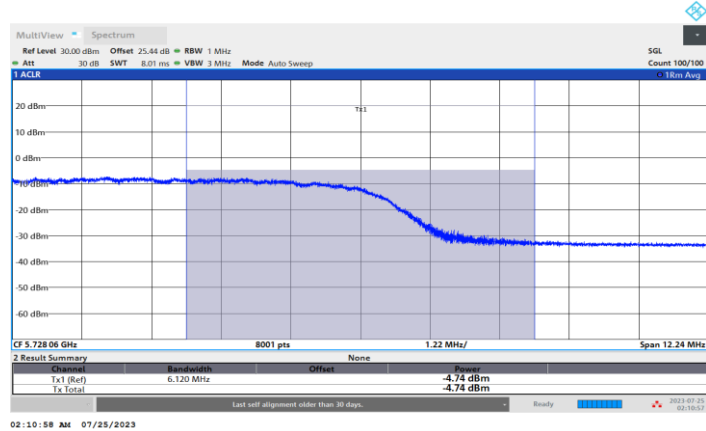




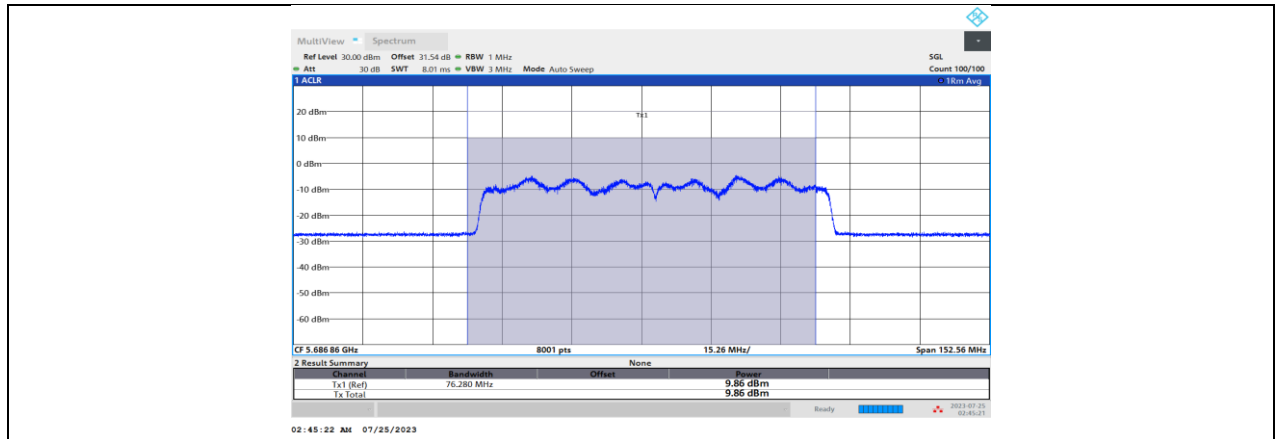
11N20SISO_Ant3_5720_UNII-3



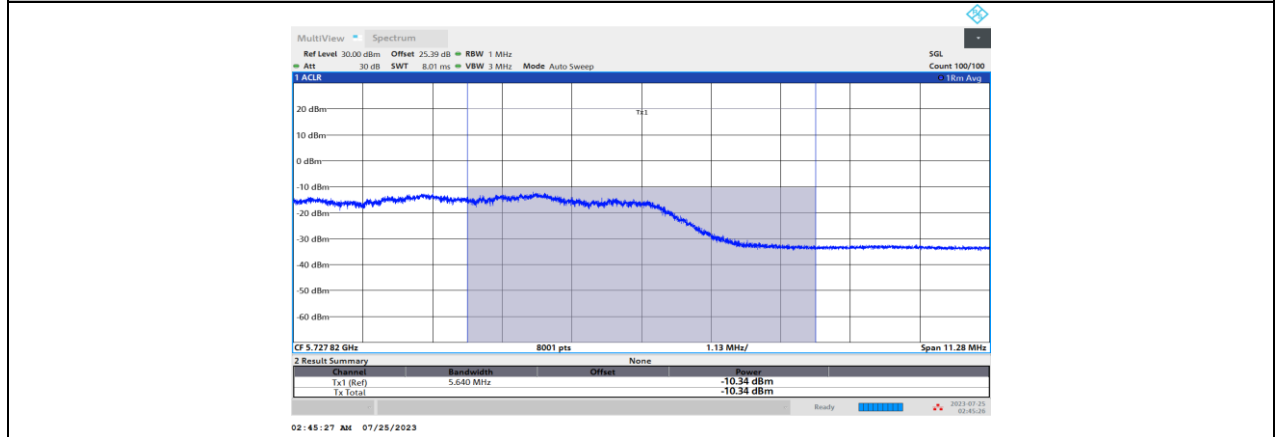
11N40SISO_Ant3_5710_UNII-2C



11N40SISO_Ant3_5710_UNII-3



11AC80SISO_Ant3_5690_UNII-2C



11AC80SISO_Ant3_5690_UNII-3

11.5. APPENDIX C: MAXIMUM POWER SPECTRAL DENSITY

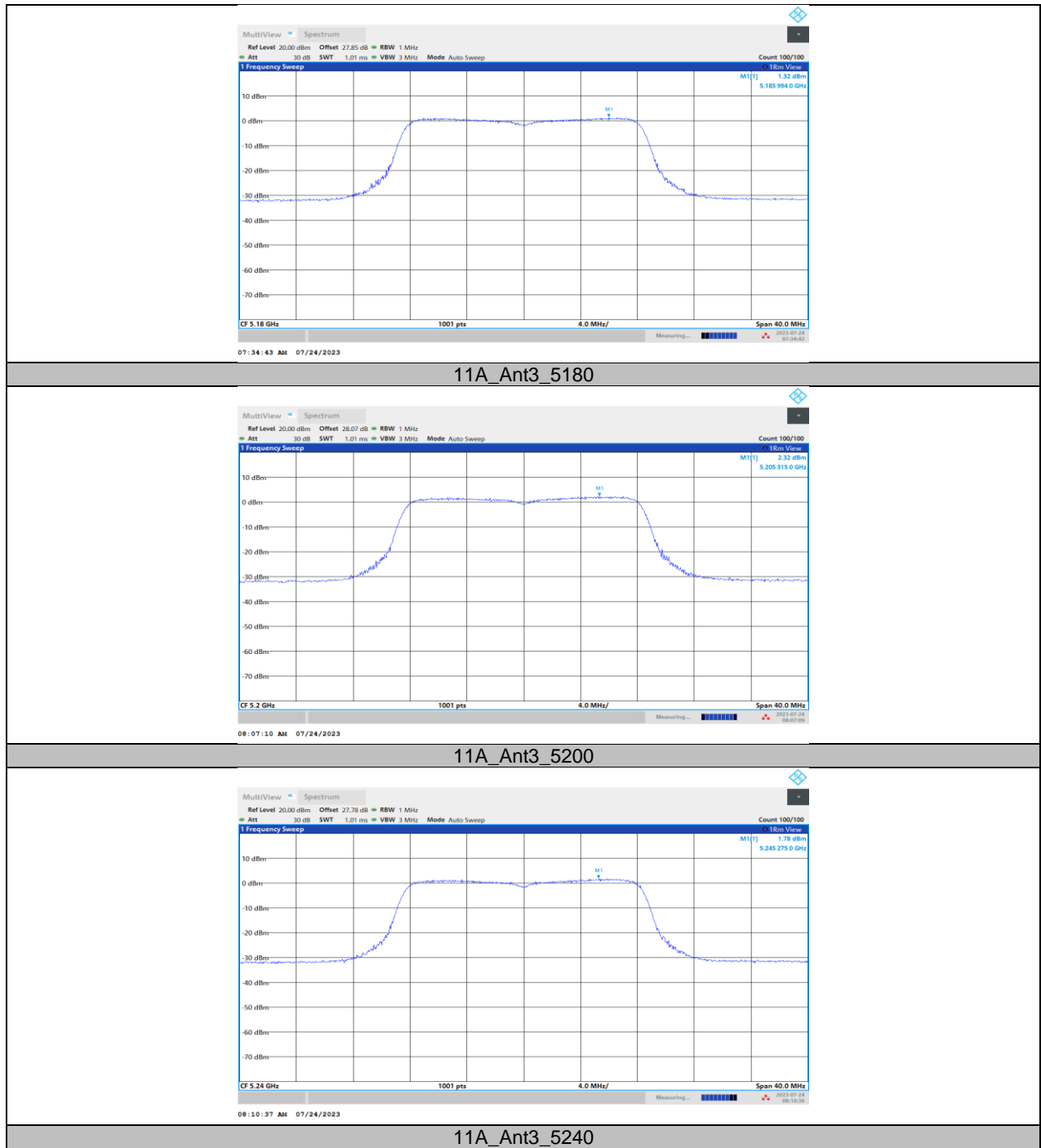
11.5.1. Test Result

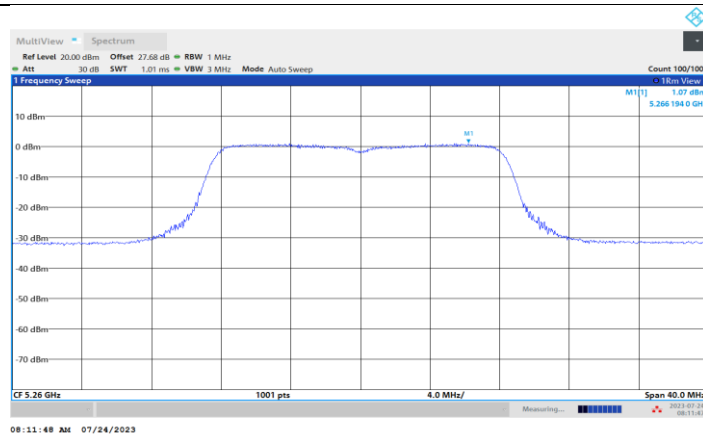
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant3	5180	1.32	≤11.00	6.27	≤10.00	PASS
		5200	2.32	≤11.00	7.27	≤10.00	PASS
		5240	1.78	≤11.00	6.73	≤10.00	PASS
		5260	1.07	≤11.00	6.02	---	PASS
		5280	0.82	≤11.00	5.77	---	PASS
		5320	1.4	≤11.00	6.35	---	PASS
		5500	1.41	≤11.00	6.36	---	PASS
		5580	1.01	≤11.00	5.96	---	PASS
		5700	1.5	≤11.00	6.45	---	PASS
		5720_UNII-2C	0.63	≤11.00	5.58	---	PASS
		5720_UNII-3	-2.36	≤30.00	2.59	---	PASS
		5745	-1.28	≤30.00	3.67	---	PASS
		5785	-1.32	≤30.00	3.63	---	PASS
		5825	-0.99	≤30.00	3.96	---	PASS
11N20SISO	Ant3	5180	-0.4	≤11.00	4.55	≤10.00	PASS
		5200	-0.71	≤11.00	4.24	≤10.00	PASS
		5240	-0.48	≤11.00	4.47	≤10.00	PASS
		5260	-0.57	≤11.00	4.38	---	PASS
		5280	-0.95	≤11.00	4.00	---	PASS
		5320	-1.19	≤11.00	3.76	---	PASS
		5500	-0.8	≤11.00	4.15	---	PASS
		5580	-0.97	≤11.00	3.98	---	PASS
		5700	-0.38	≤11.00	4.57	---	PASS
		5720_UNII-2C	-1.24	≤11.00	3.71	---	PASS
		5720_UNII-3	-4.16	≤30.00	0.79	---	PASS
		5745	-2.98	≤30.00	1.97	---	PASS
		5785	-3.58	≤30.00	1.37	---	PASS
		5825	-3.16	≤30.00	1.79	---	PASS
11N40SISO	Ant3	5190	-4.11	≤11.00	0.84	≤10.00	PASS
		5230	-2.33	≤11.00	2.62	≤10.00	PASS
		5270	-3.59	≤11.00	1.36	---	PASS
		5310	-2.32	≤11.00	2.63	---	PASS
		5510	-3.5	≤11.00	1.45	---	PASS
		5550	-3.31	≤11.00	1.64	---	PASS
		5670	-2.78	≤11.00	2.17	---	PASS
		5710_UNII-2C	-2.93	≤11.00	2.02	---	PASS
		5710_UNII-3	-5.75	≤30.00	-0.80	---	PASS
		5755	-6.44	≤30.00	-1.49	---	PASS
		5795	-5.4	≤30.00	-0.45	---	PASS
11AC80SISO	Ant3	5210	-4.84	≤11.00	0.11	≤10.00	PASS
		5290	-5.86	≤11.00	-0.91	---	PASS
		5530	-5.9	≤11.00	-0.95	---	PASS
		5610	-5.27	≤11.00	-0.32	---	PASS
		5690_UNII-2C	-5.67	≤11.00	-0.72	---	PASS
		5690_UNII-3	-10.05	≤30.00	-5.10	---	PASS
		5775	-7.72	≤30.00	-2.77	---	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

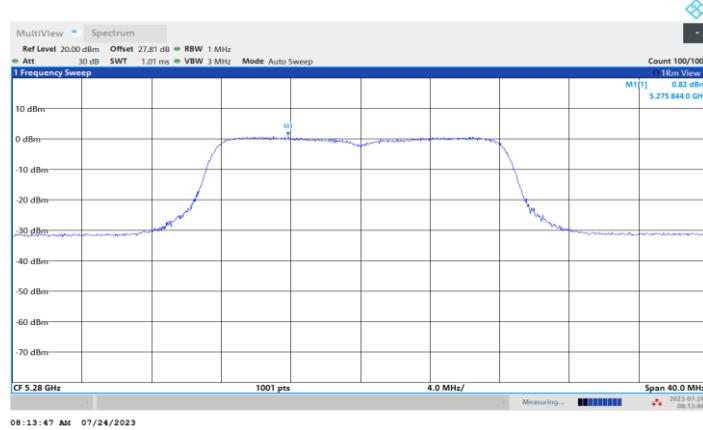
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs

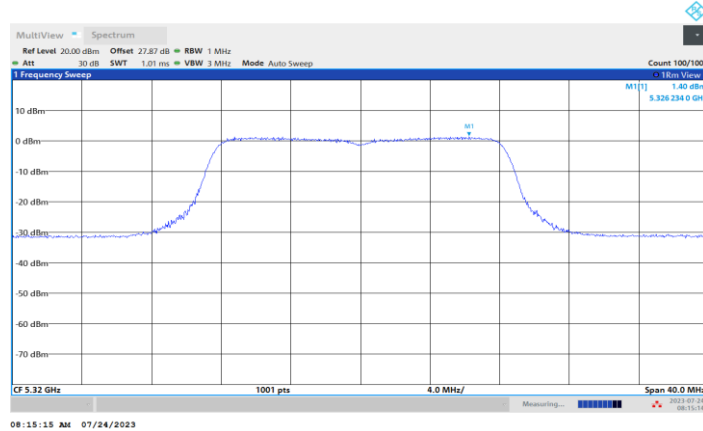




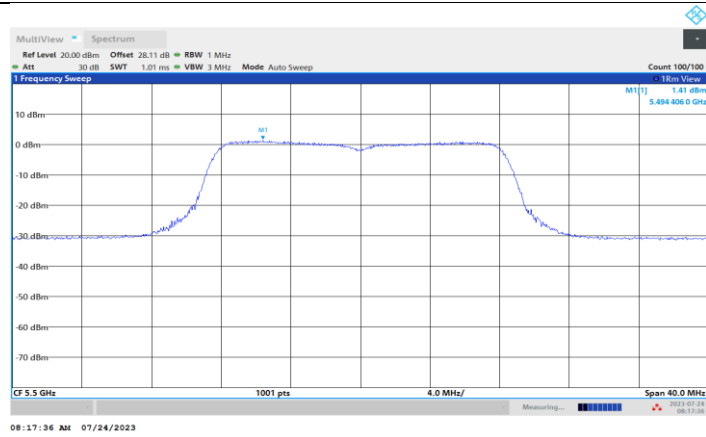
11A_Ant3_5260



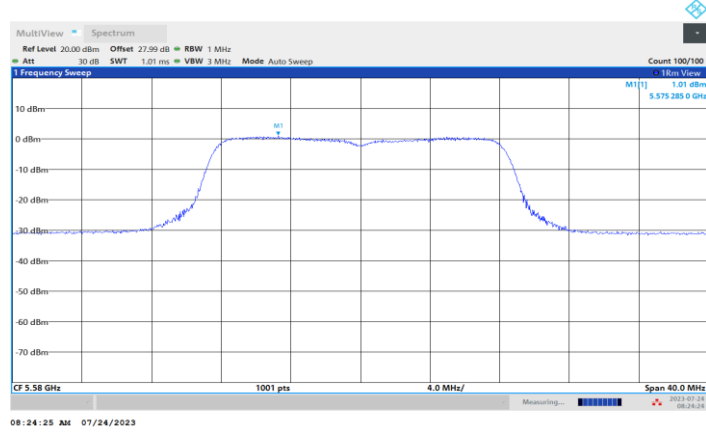
11A_Ant3_5280



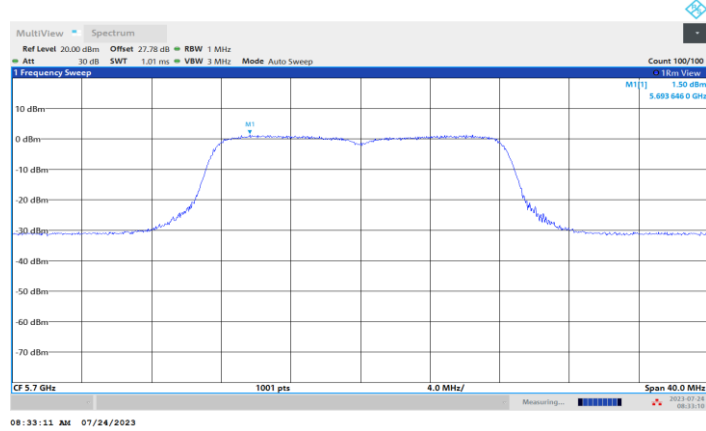
11A_Ant3_5320



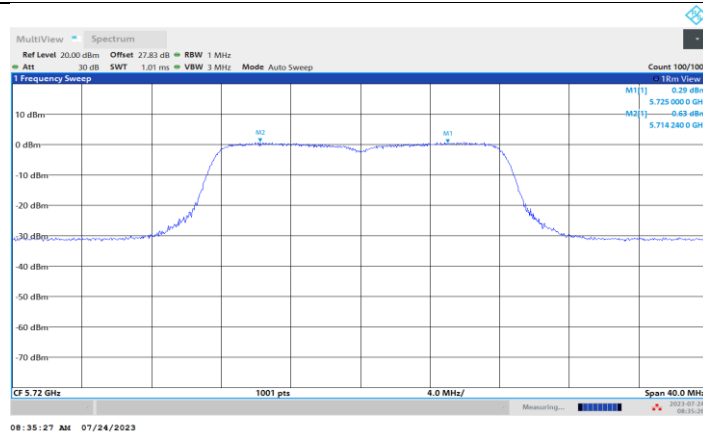
11A_Ant3_5500



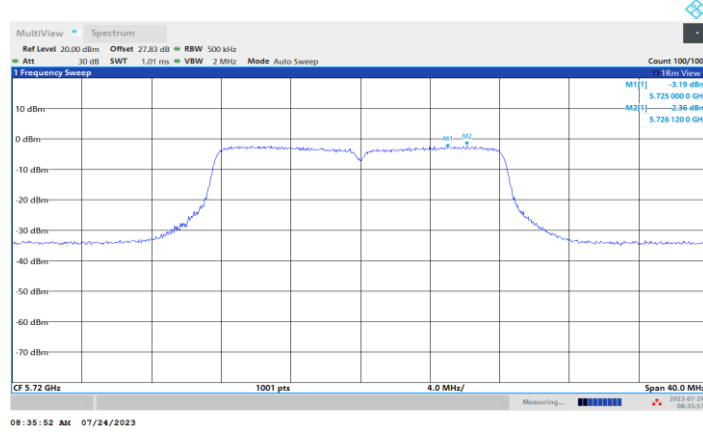
11A_Ant3_5580



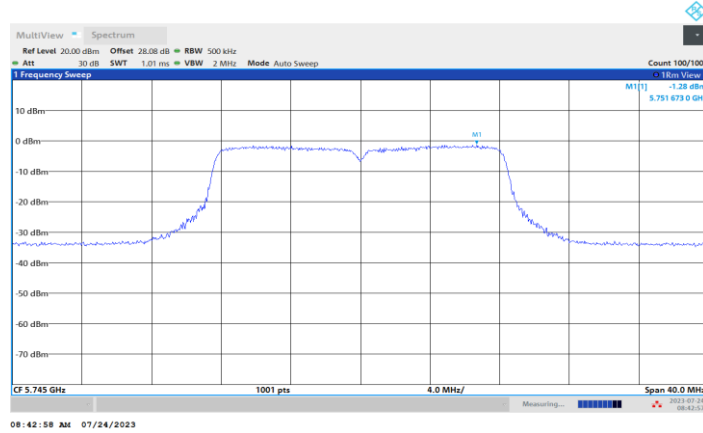
11A_Ant3_5700



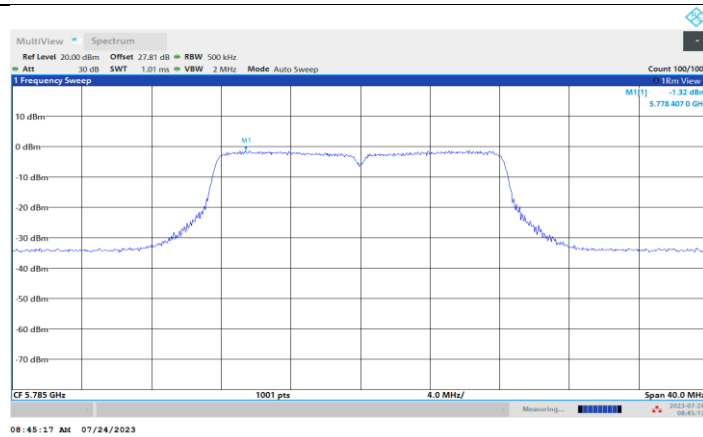
11A_Ant3_5720_UNII-2C



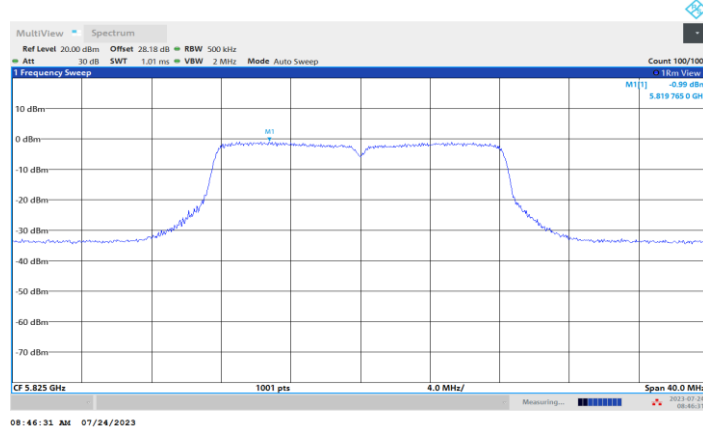
11A_Ant3_5720_UNII-3



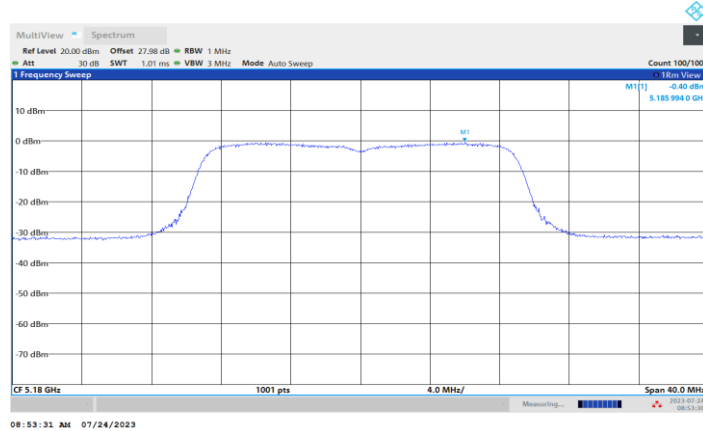
11A_Ant3_5745



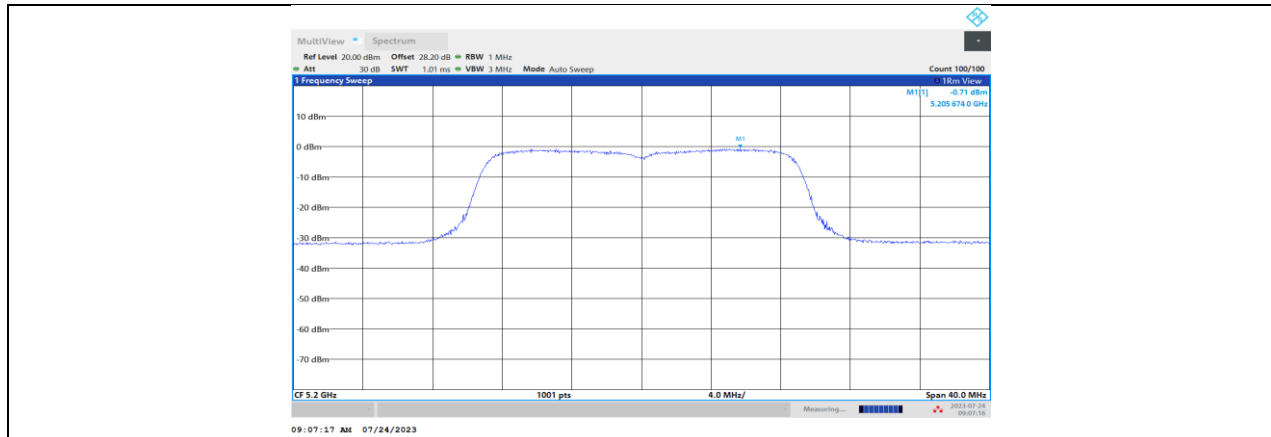
11A_Ant3_5785



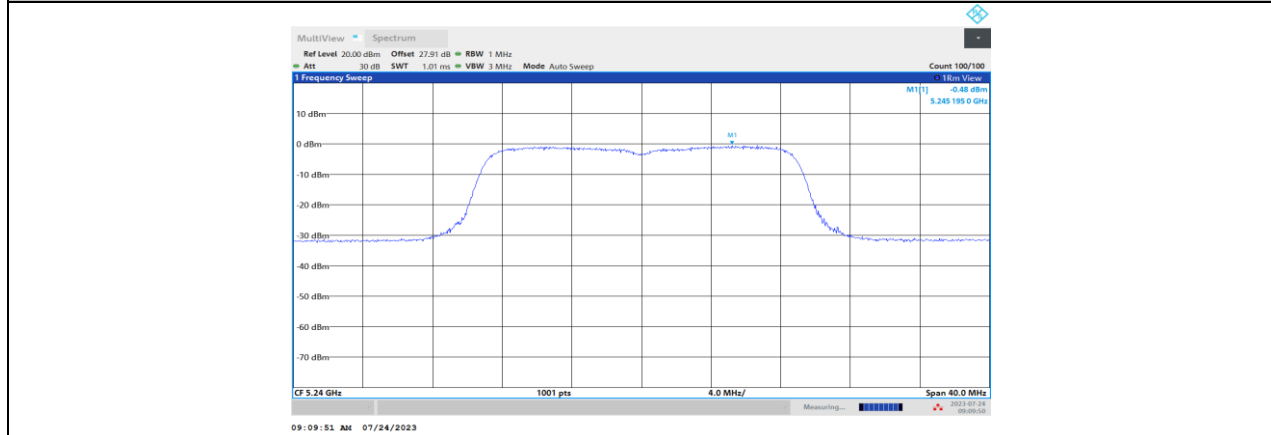
11A_Ant3_5825



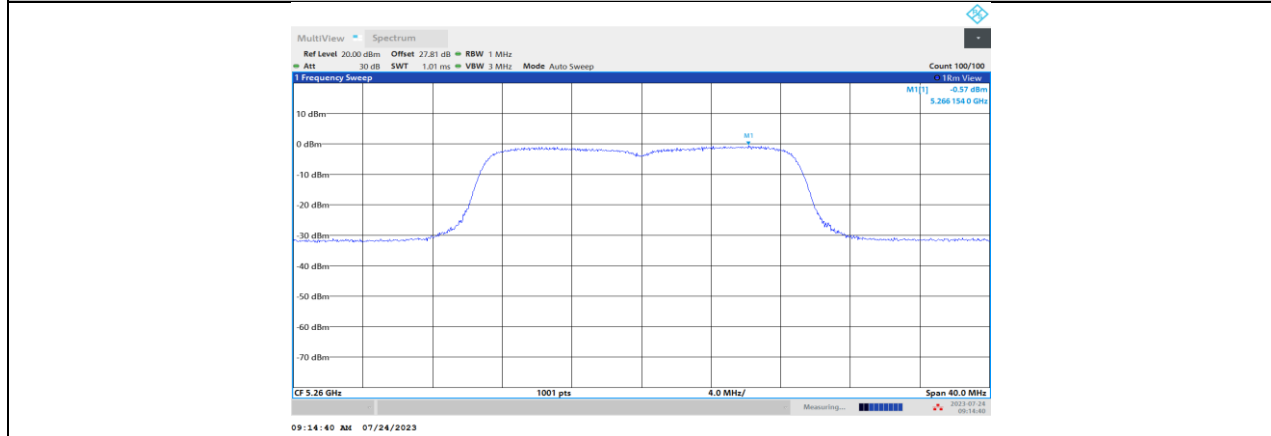
11N20SISO_Ant3_5180



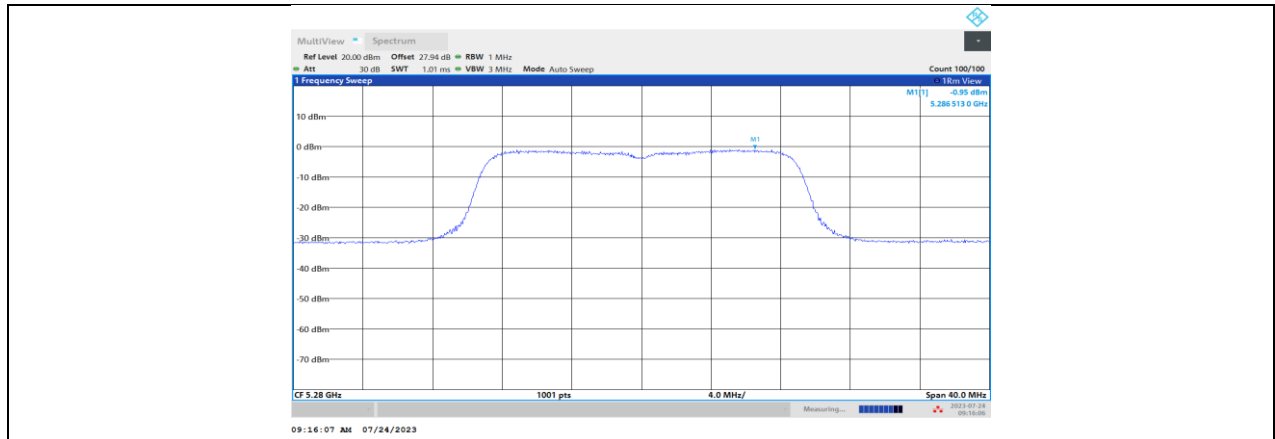
11N20SISO_Ant3_5200



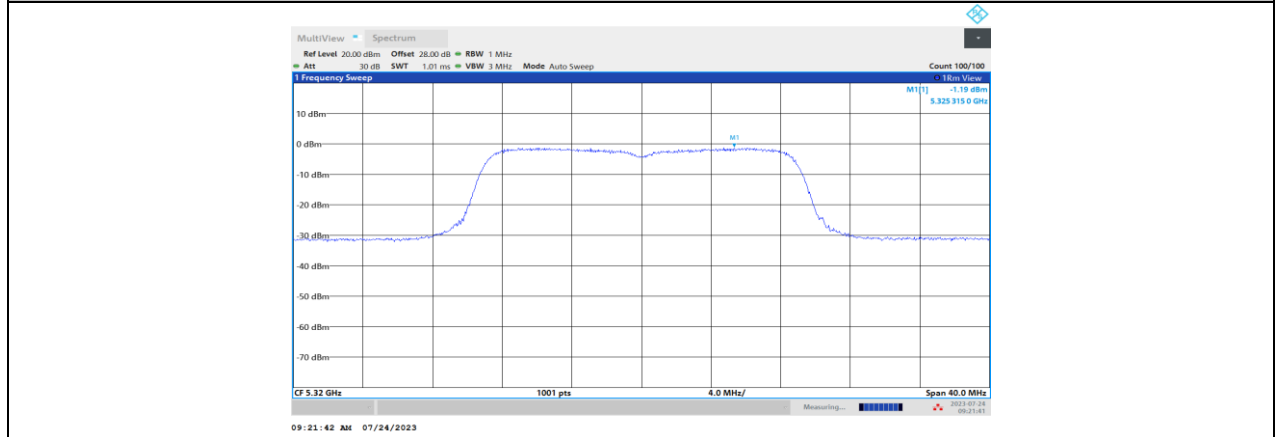
11N20SISO_Ant3_5240



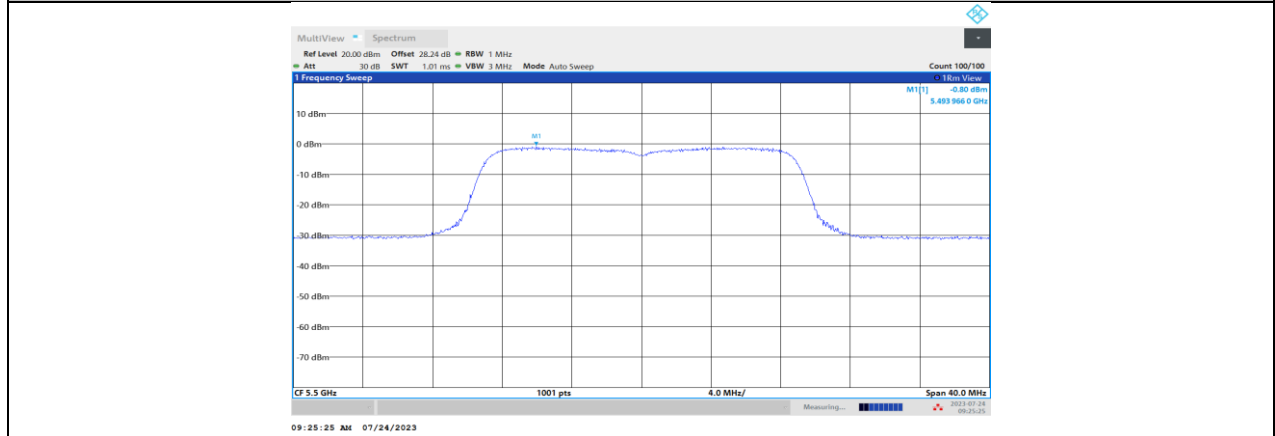
11N20SISO_Ant3_5260



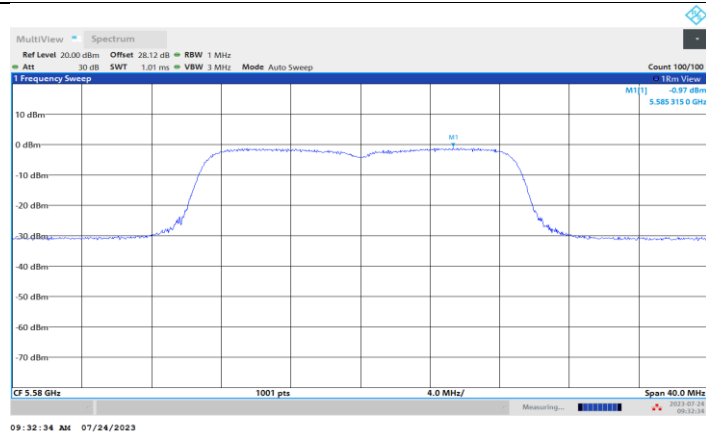
11N20SISO_Ant3_5280



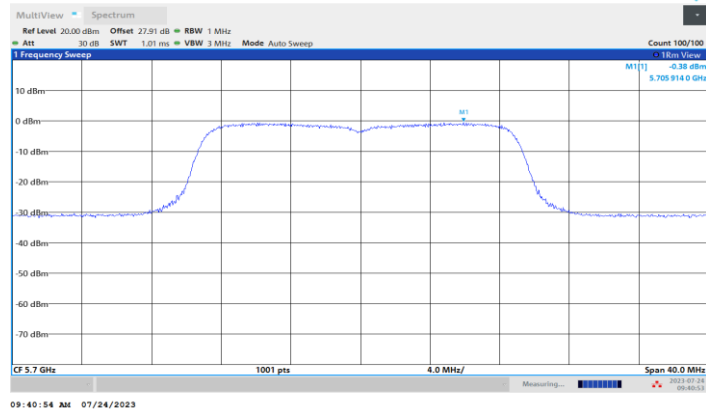
11N20SISO_Ant3_5320



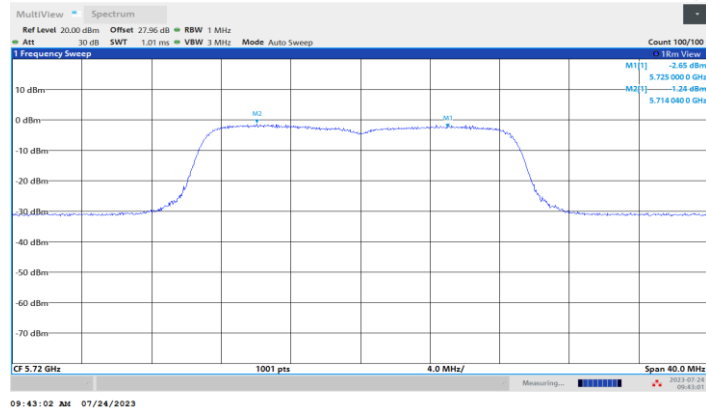
11N20SISO_Ant3_5500



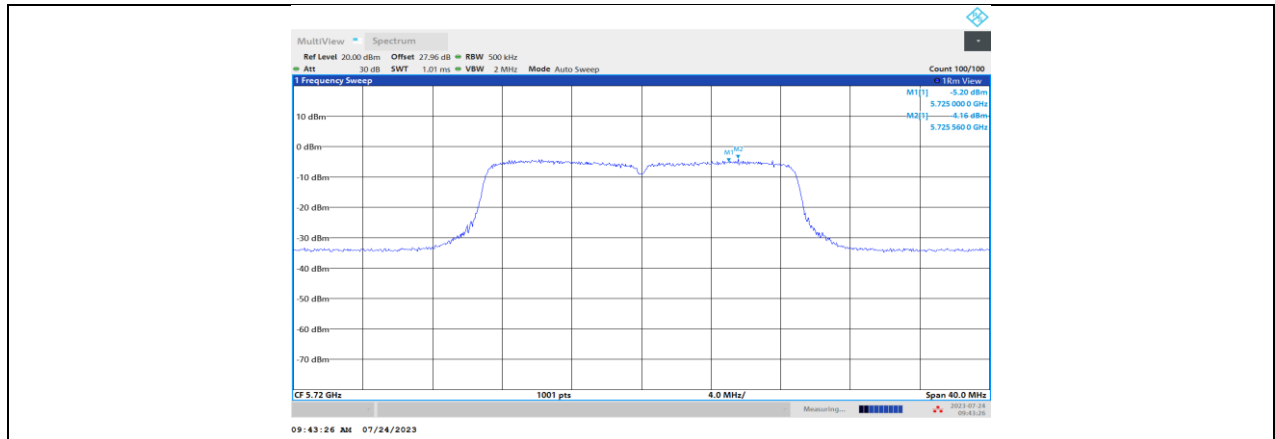
11N20SISO_Ant3_5580



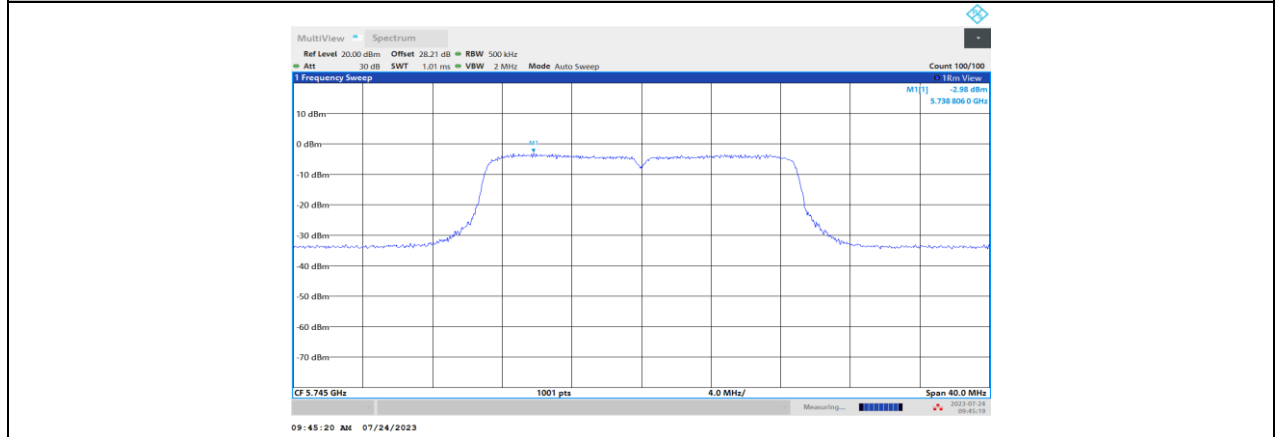
11N20SISO_Ant3_5700



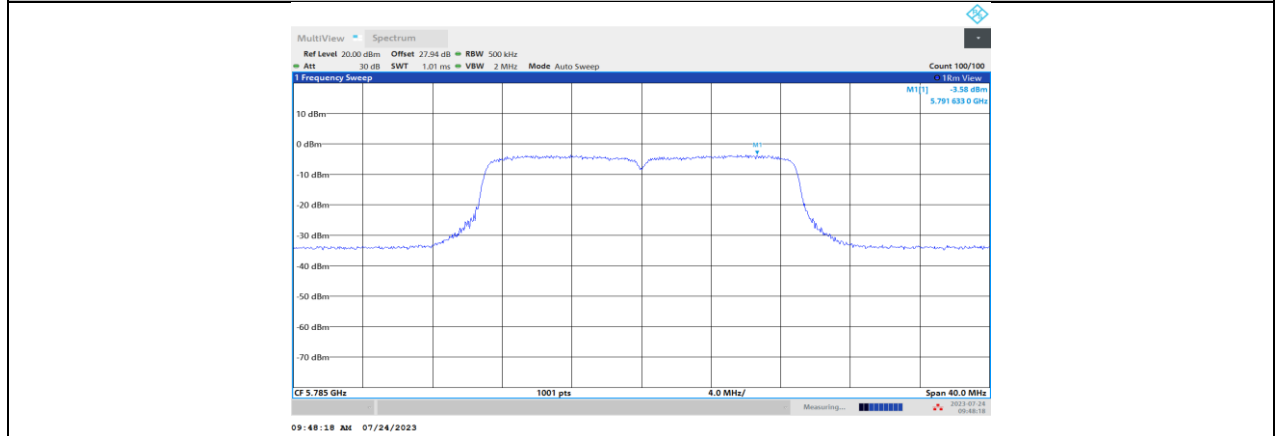
11N20SISO_Ant3_5720_UNII-2C



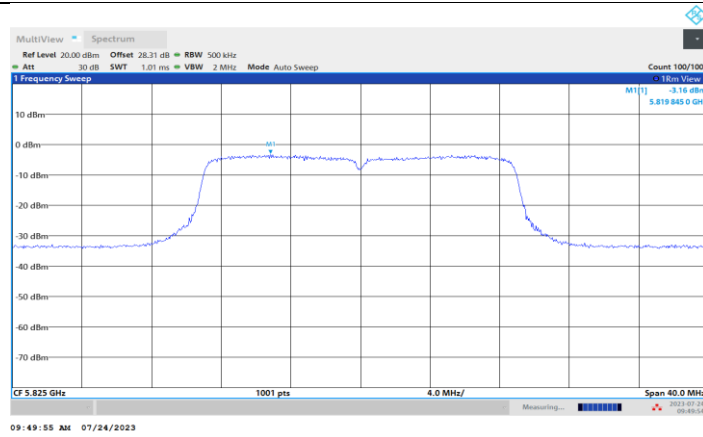
11N20SISO_Ant3_5720_UNII-3



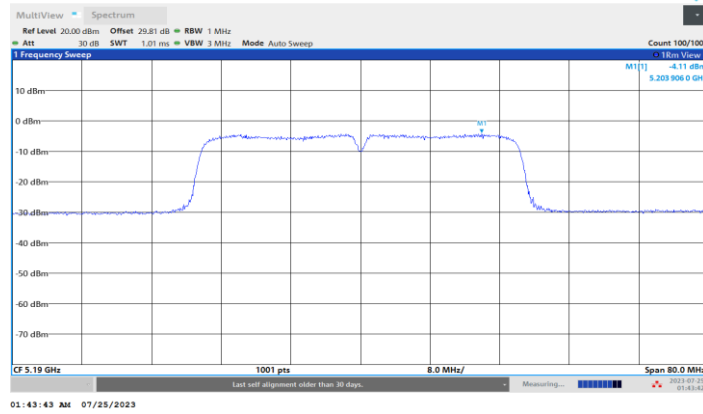
11N20SISO_Ant3_5745



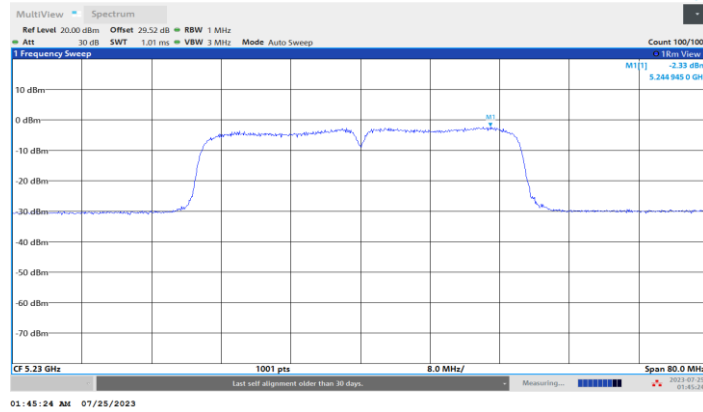
11N20SISO_Ant3_5785



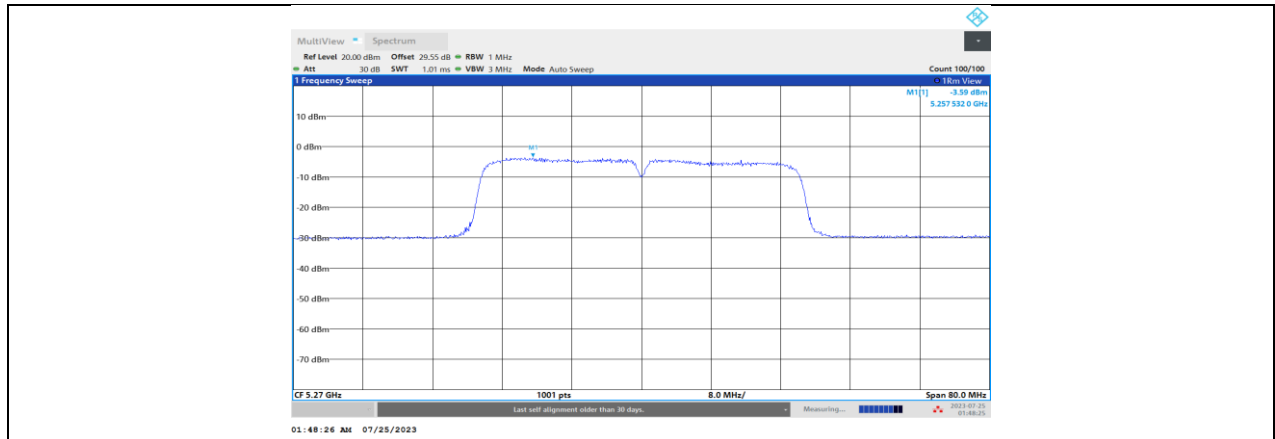
11N20SISO_Ant3_5825



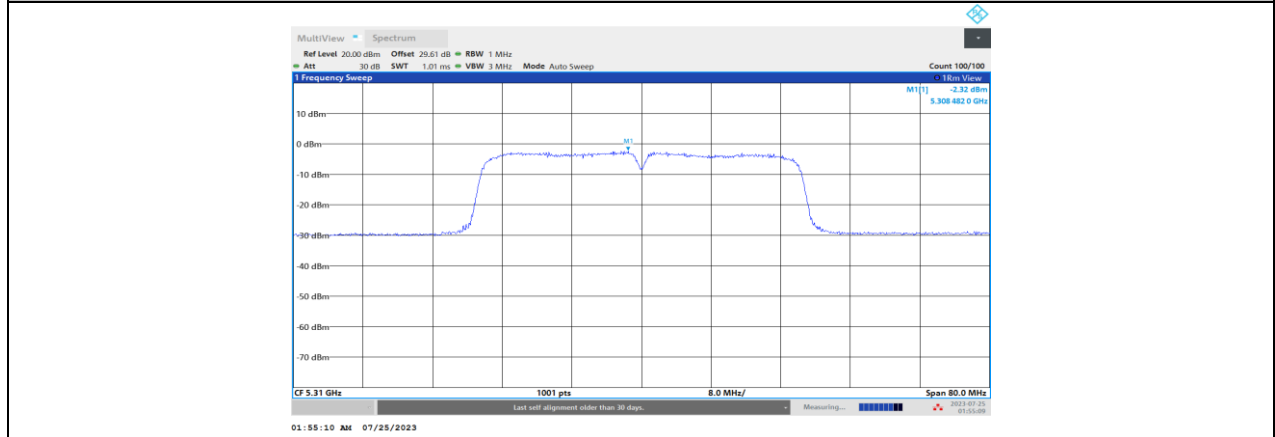
11N40SISO_Ant3_5190



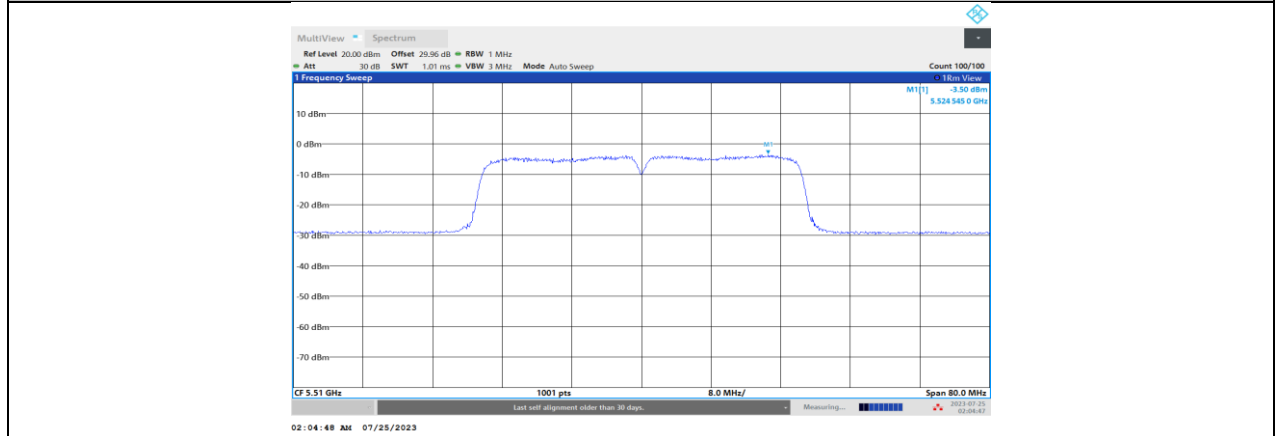
11N40SISO_Ant3_5230



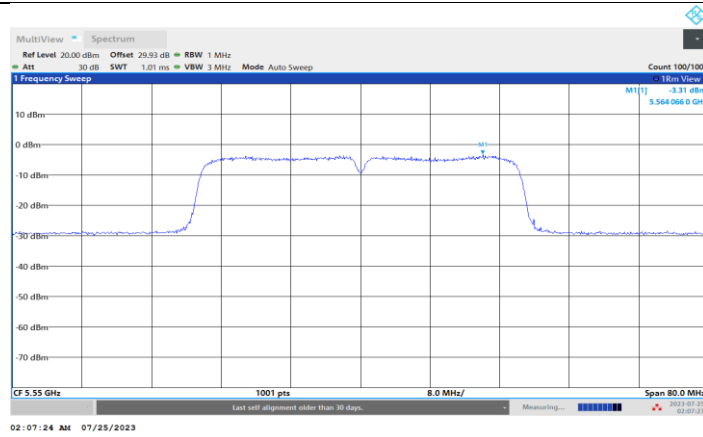
11N40ISO_Ant3_5270



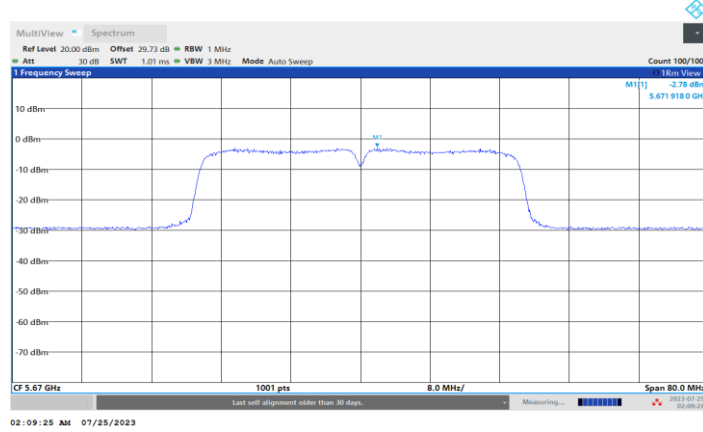
11N40ISO_Ant3_5310



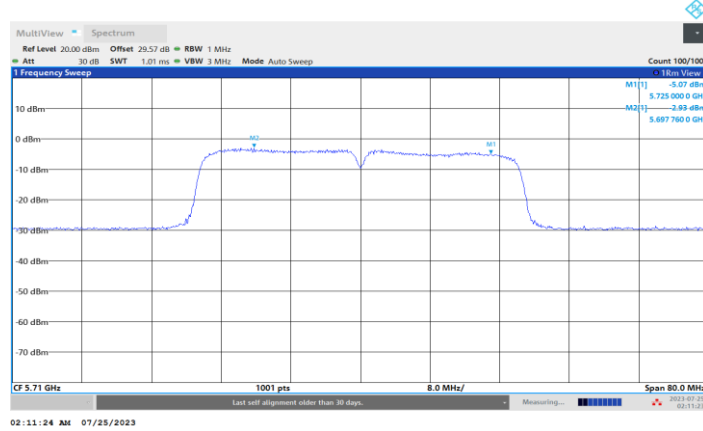
11N40ISO_Ant3_5510



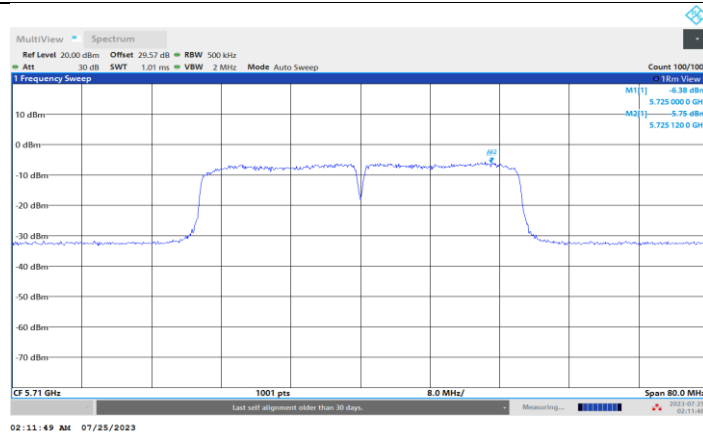
11N40SISO_Ant3_5550



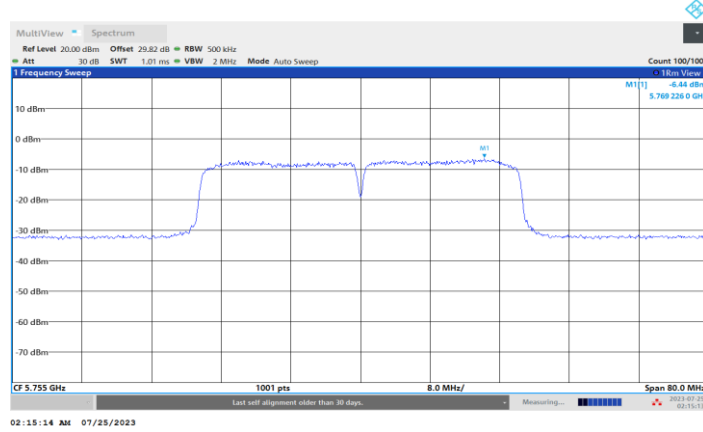
11N40SISO_Ant3_5670



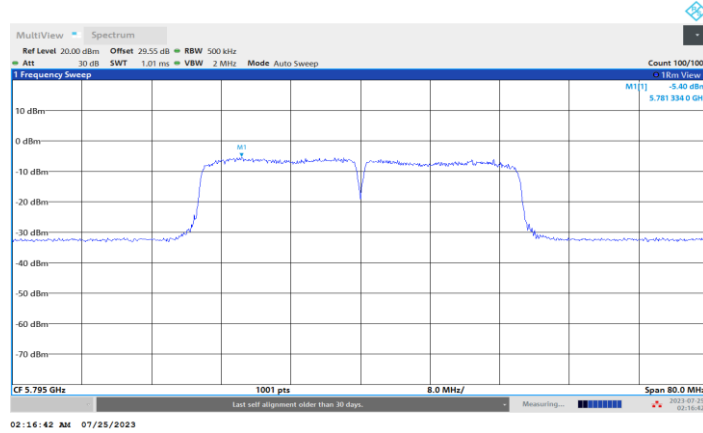
11N40SISO_Ant3_5710_UNII-2C



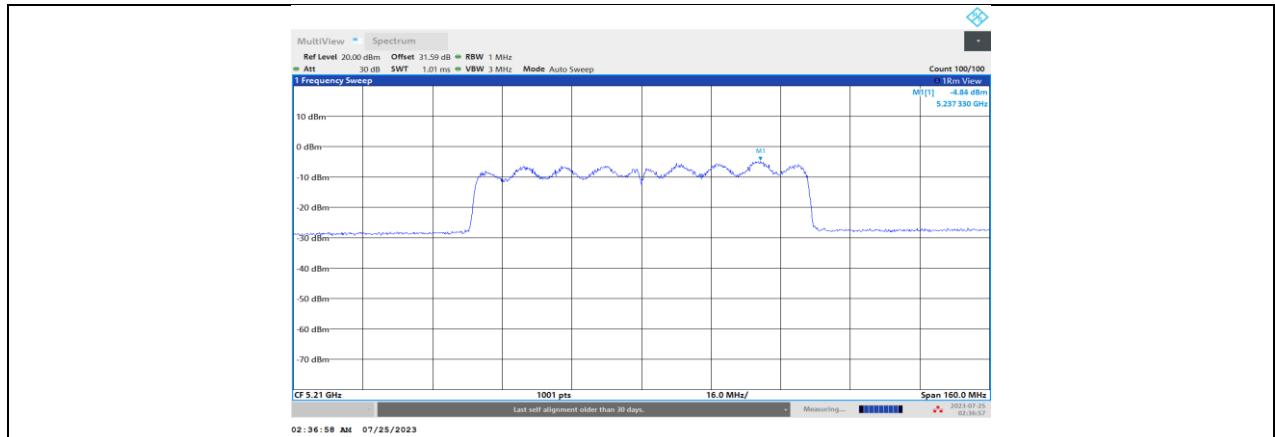
11N40SISO_Ant3_5710_UNII-3



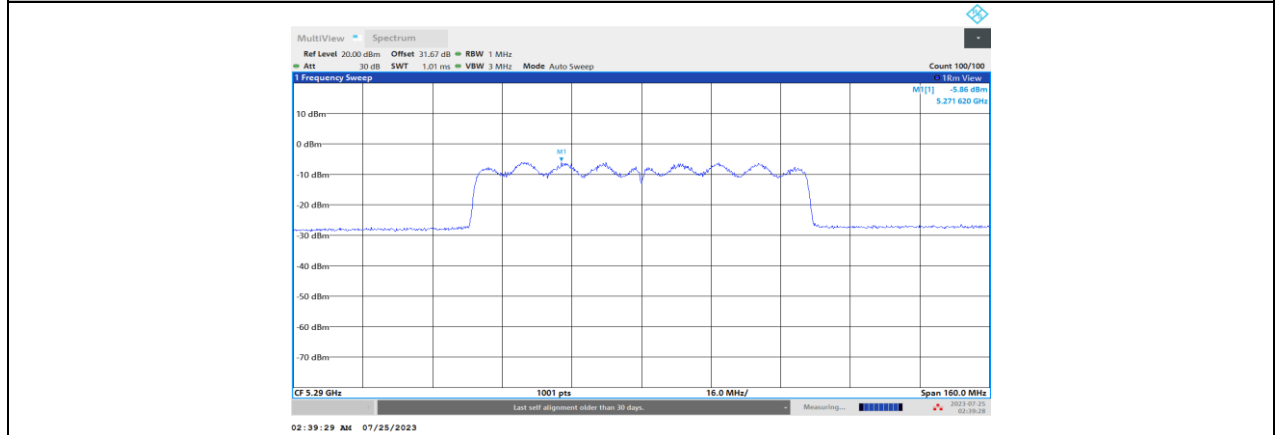
11N40SISO_Ant3_5755



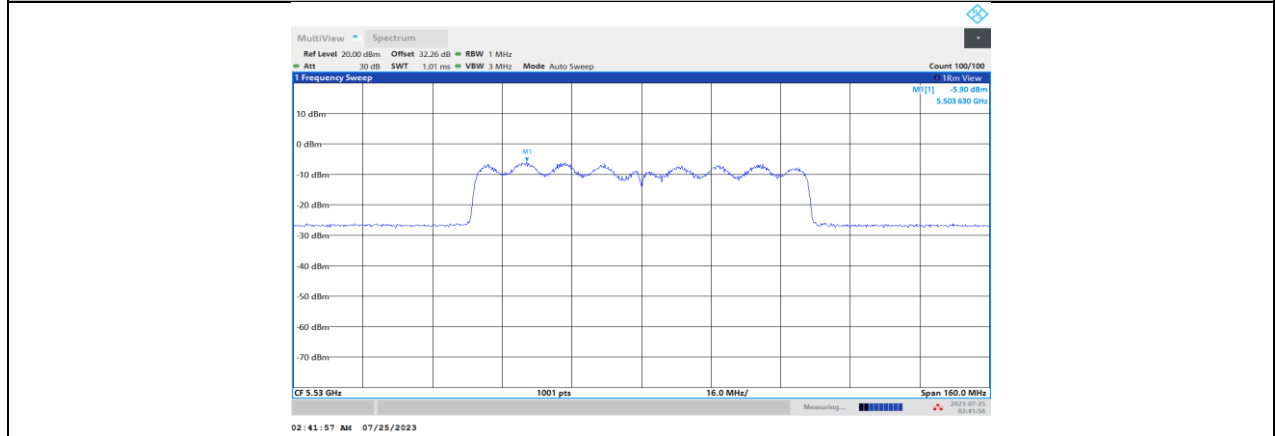
11N40SISO_Ant3_5795



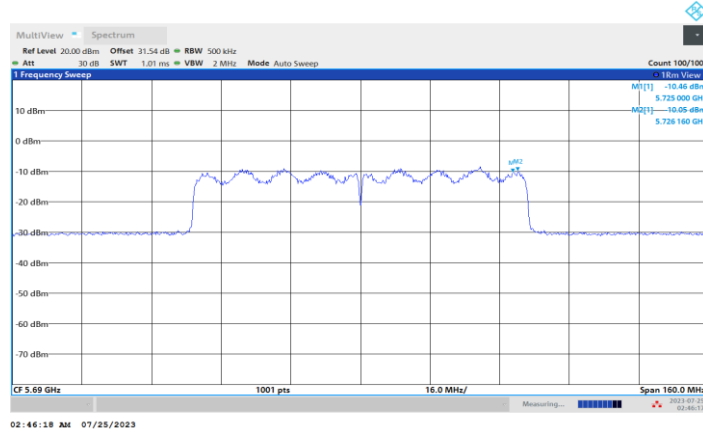
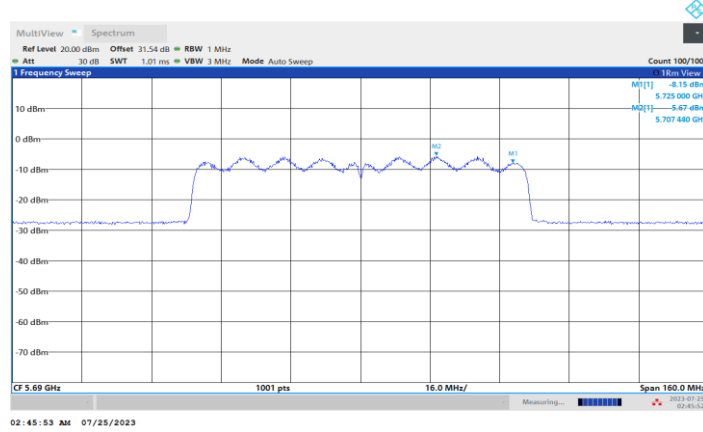
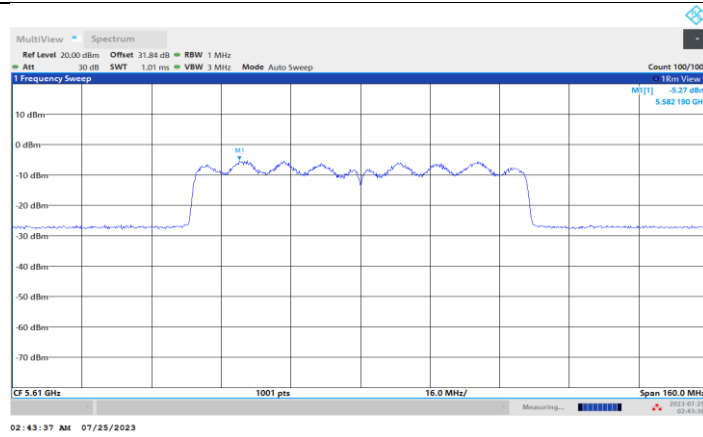
11AC80SISO_Ant3_5210

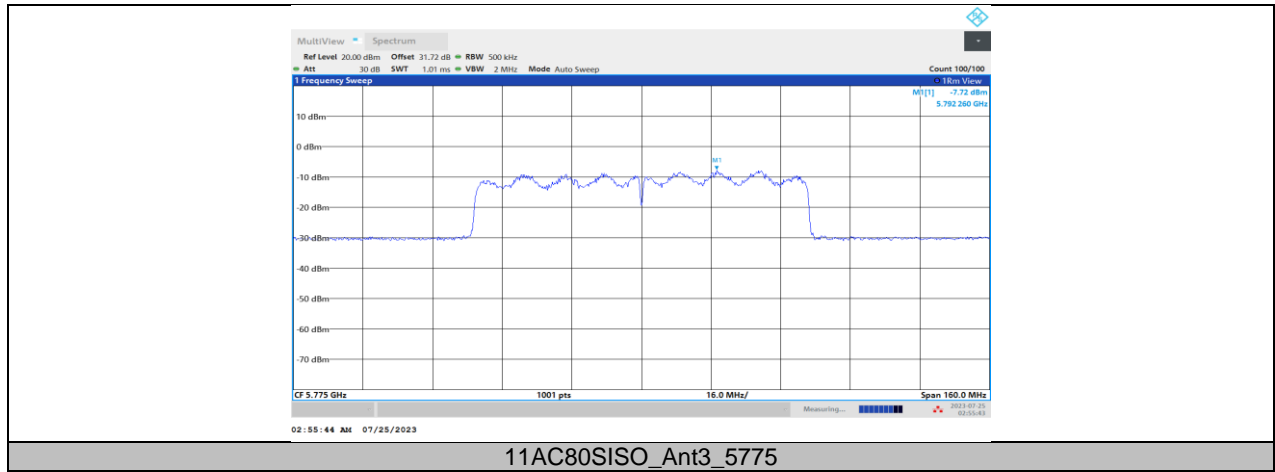


11AC80SISO_Ant3_5290



11AC80SISO_Ant3_5530





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	5179.9871	-2.49	5179.9912	-1.70	5179.9958	-0.82	5179.9891	-2.11
TN	VN	5180.0053	1.03	5179.9836	-3.17	5179.9803	-3.80	5180.0225	4.35
TN	VH	5179.9955	-0.87	5179.9985	-0.29	5179.9776	-4.33	5180.0057	1.11
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)
40	VN	5179.9947	-1.03	5179.9876	-2.40	5180.0101	1.94	5179.9780	-4.24
30	VN	5180.0116	2.24	5179.9926	-1.43	5179.9812	-3.63	5180.0191	3.70
20	VN	5180.0050	0.96	5180.0183	3.53	5179.9975	-0.48	5179.9834	-3.21
10	VN	5179.9755	-4.74	5179.9769	-4.47	5180.0081	1.57	5180.0245	4.73
0	VN	5180.0125	2.41	5179.9768	-4.47	5179.9774	-4.36	5179.9939	-1.18

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	5824.9997	-0.06	5825.0024	0.41	5824.9814	-3.20	5824.9977	-0.39
TN	VN	5825.0040	0.68	5825.0187	3.21	5824.9862	-2.38	5825.0126	2.17
TN	VH	5825.0174	2.99	5825.0161	2.76	5824.9882	-2.03	5825.0205	3.52
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)
40	VN	5824.9889	-1.91	5825.0098	1.68	5825.0111	1.91	5825.0023	0.39
30	VN	5825.0011	0.20	5825.0244	4.18	5824.9848	-2.60	5825.0219	3.75
20	VN	5824.9890	-1.90	5824.9832	-2.88	5824.9997	-0.04	5825.0166	2.85
10	VN	5825.0067	1.15	5824.9921	-1.36	5824.9869	-2.26	5824.9908	-1.59
0	VN	5825.0212	3.64	5825.0104	1.78	5824.9818	-3.12	5824.9776	-3.84

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	2.36	0.5763	57.63	2.39	0.74	1
11N20SISO	1.27	2.27	0.5595	55.95	2.52	0.79	1
11N40SISO	0.63	1.63	0.3865	38.65	4.13	1.59	2
11AC80SISO	0.32	1.32	0.2424	24.24	6.15	3.13	4

Note:

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

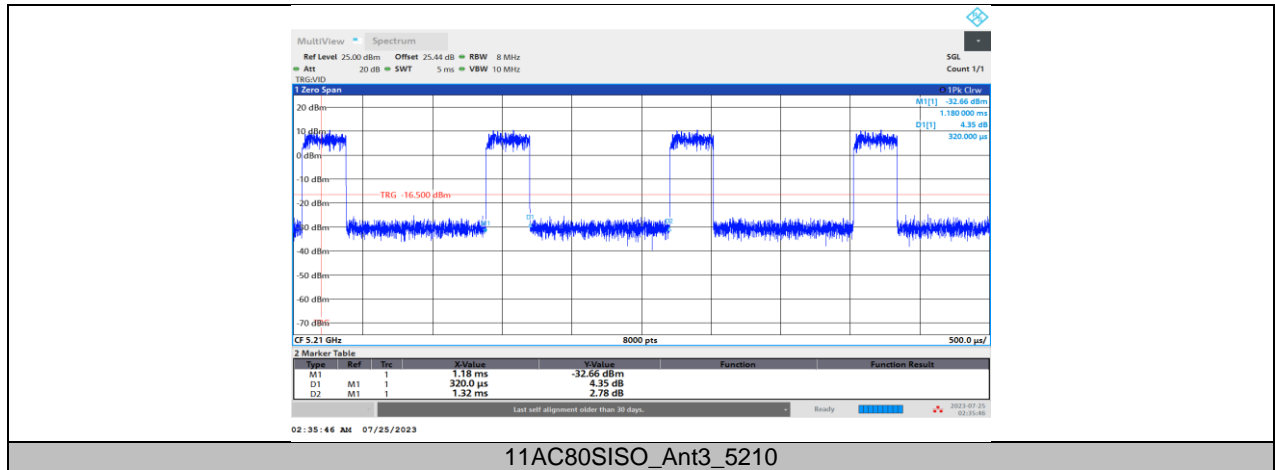
Where: x is Duty Cycle (Linear)

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





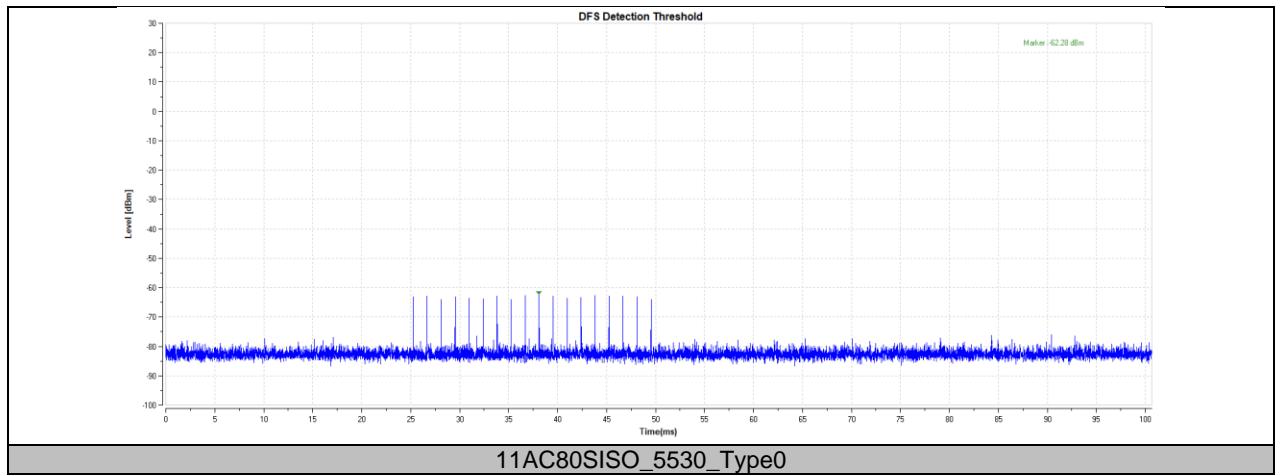
11.8. APPENDIX F: DFS DETECTION THRESHOLDS

11.8.1. Test Result

Test Mode	Channel	Radar Type	Result	Verdict
11AC80SISO	5530	Type0	-62.28	PASS

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

11.8.2. Test Graphs



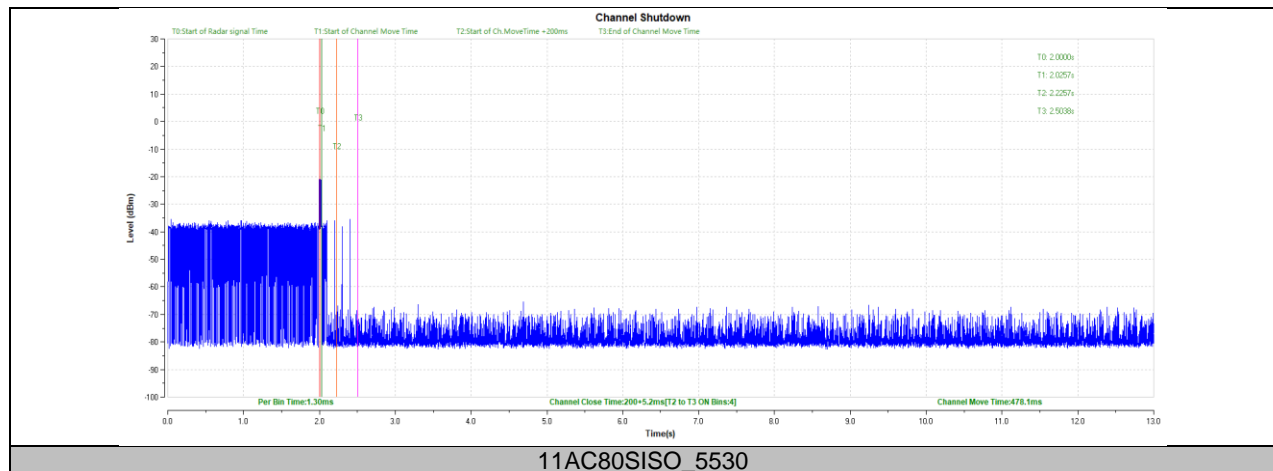
11.9. APPENDIX G: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.9.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+5.2	200+60	478.1	10000	PASS

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

11.9.2. Test Graphs



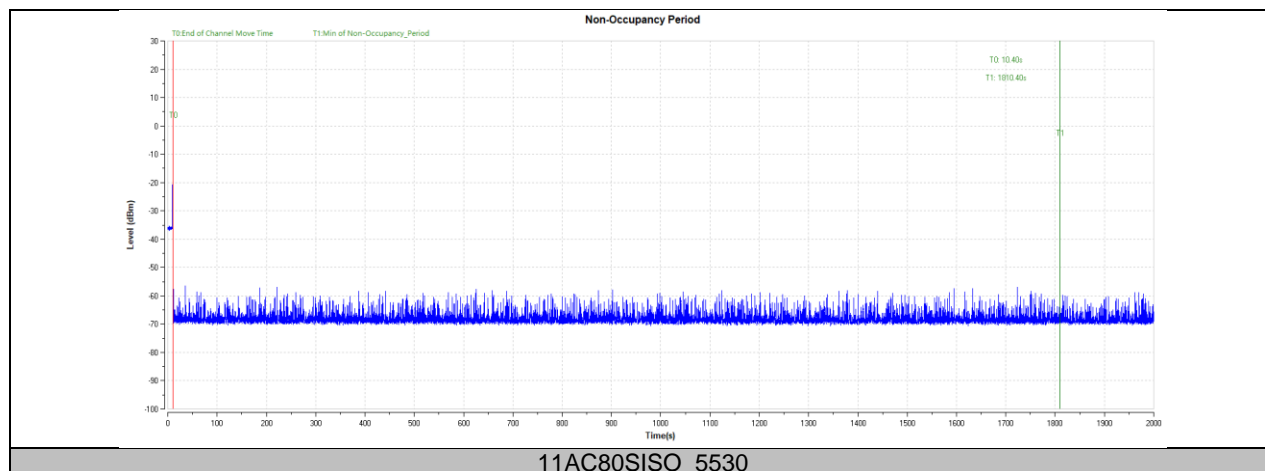
11.10. APPENDIX H: NON-OCCUPANCY PERIOD

Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80SISO	5530	see test graph	≥1800	PASS

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

11.10.1. Test Graphs



END OF REPORT