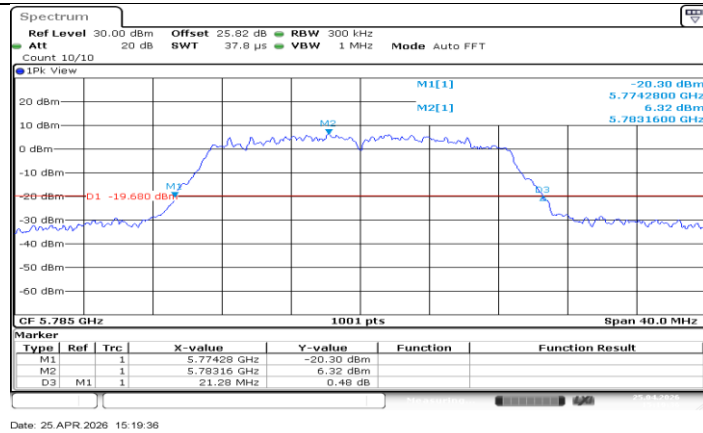
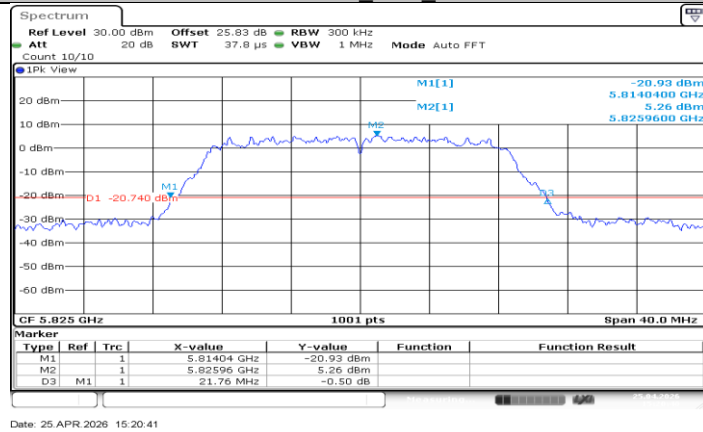




11N20SISO_Ant1_5785



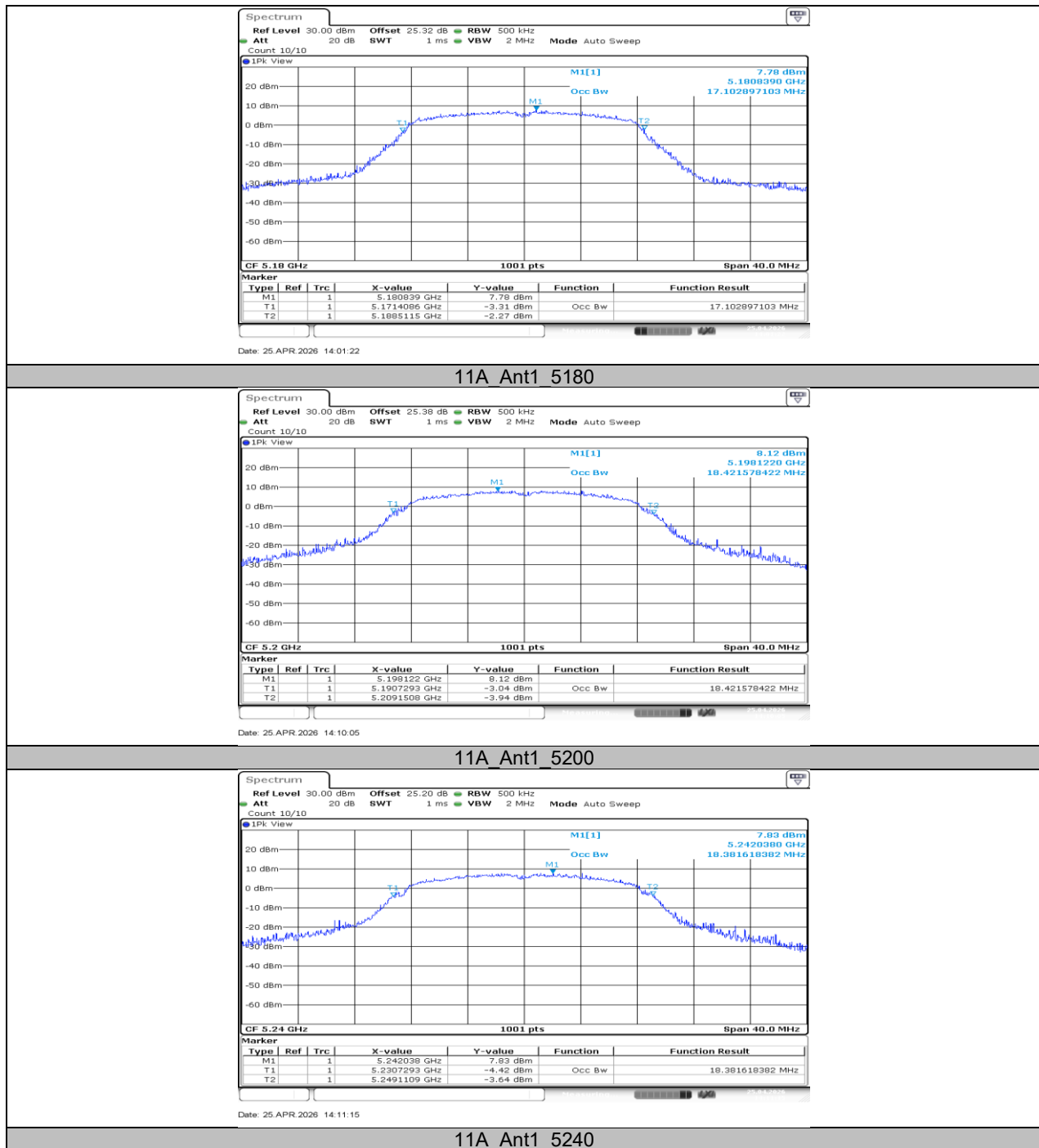
11N20SISO_Ant1_5825

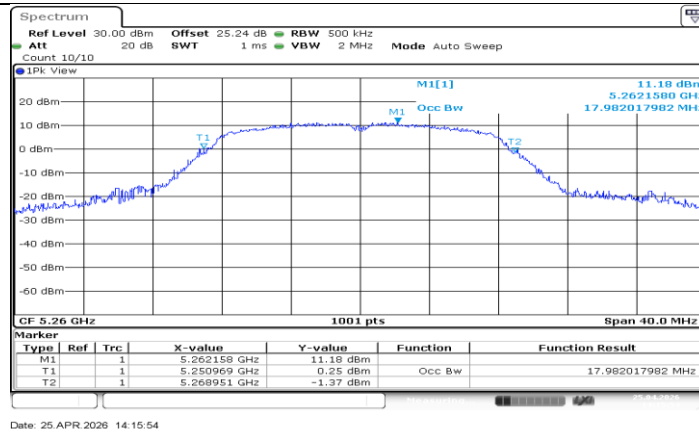
11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

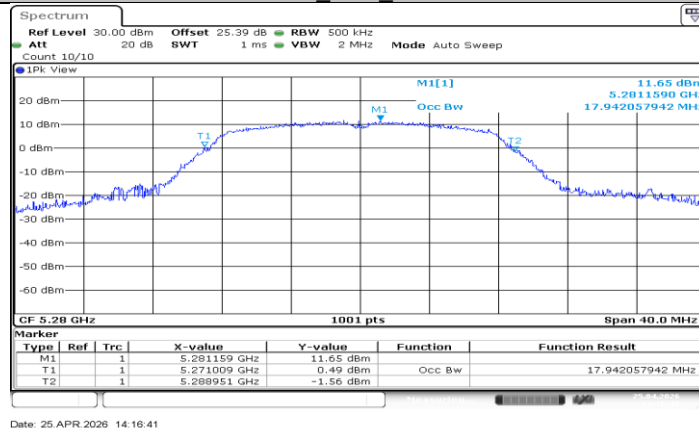
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	17.103	5171.4086	5188.5115	PASS
		5200	18.422	5190.7293	5209.1508	PASS
		5240	18.382	5230.7293	5249.1109	PASS
		5260	17.982	5250.9690	5268.9510	PASS
		5280	17.942	5271.0090	5288.9510	PASS
		5320	17.942	5310.9690	5328.9111	PASS
		5500	17.822	5491.1289	5508.9510	PASS
		5580	17.822	5571.0889	5588.9111	PASS
		5700	17.303	5691.2887	5708.5914	PASS
		5720	17.822	5711.0090	5728.8312	PASS
		5720 UNII-2C	13.991	5711.0090	5725	PASS
		5720 UNII-3	3.831	5725	5728.8312	PASS
		5745	17.702	5736.1289	5753.8312	PASS
		5785	17.862	5776.0490	5793.9111	PASS
		5825	17.702	5816.0889	5833.7912	PASS
11N20SISO	Ant1	5180	18.102	5170.8891	5188.9910	PASS
		5200	17.942	5191.0090	5208.9510	PASS
		5240	17.942	5231.0090	5248.9510	PASS
		5260	18.222	5250.8492	5269.0709	PASS
		5280	18.142	5270.8891	5289.0310	PASS
		5320	18.222	5310.8891	5329.1109	PASS
		5500	18.102	5490.9690	5509.0709	PASS
		5580	18.142	5570.8891	5589.0310	PASS
		5700	17.862	5691.0490	5708.9111	PASS
		5720	18.182	5710.8891	5729.0709	PASS
		5720 UNII-2C	14.111	5710.8891	5725	PASS
		5720 UNII-3	4.071	5725	5729.0709	PASS
		5745	17.822	5736.0490	5753.8711	PASS
		5785	17.862	5776.0090	5793.8711	PASS
		5825	17.942	5815.9690	5833.9111	PASS

11.2.2. Test Graphs

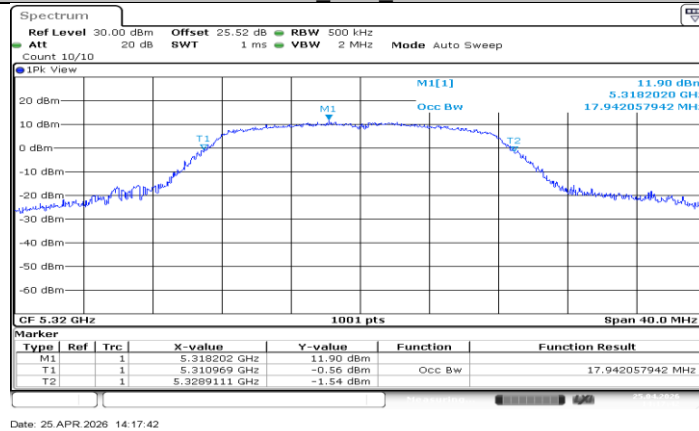




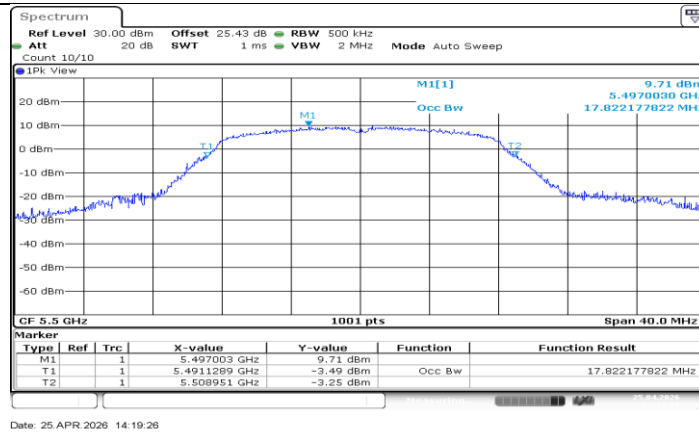
11A_Ant1_5260



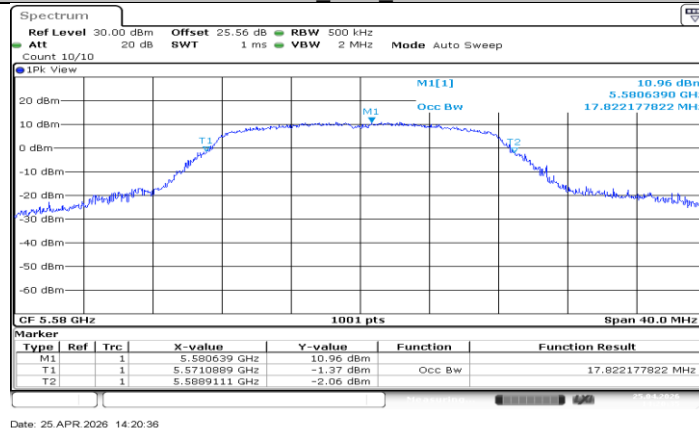
11A_Ant1_5280



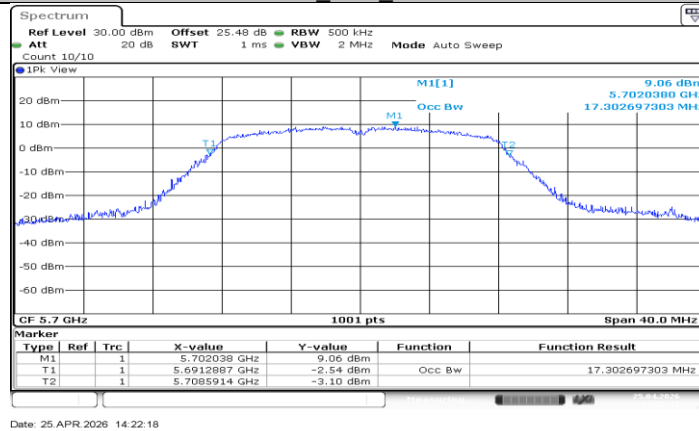
11A_Ant1_5320



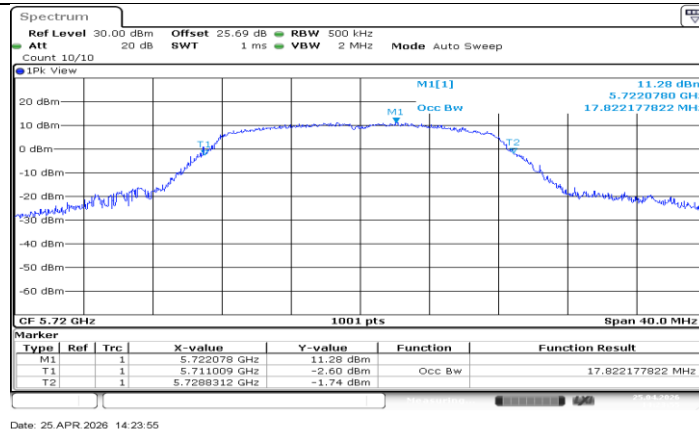
11A_Ant1_5500



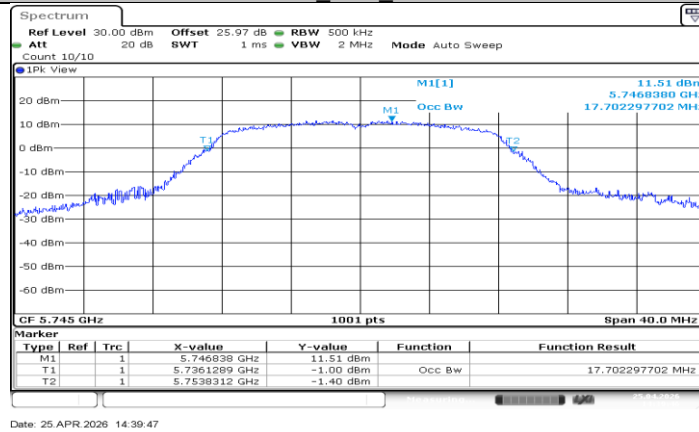
11A_Ant1_5580



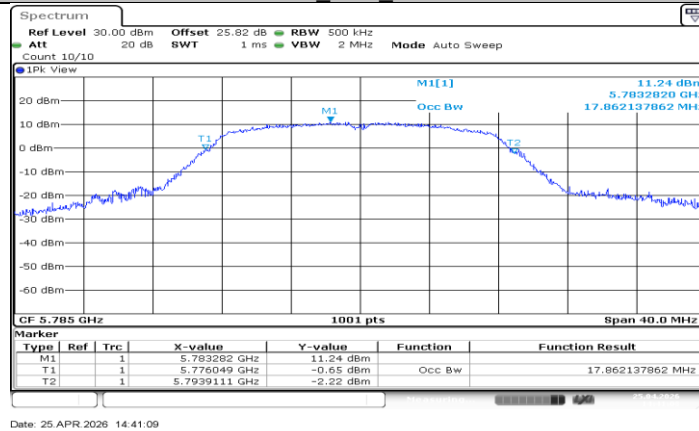
11A_Ant1_5700



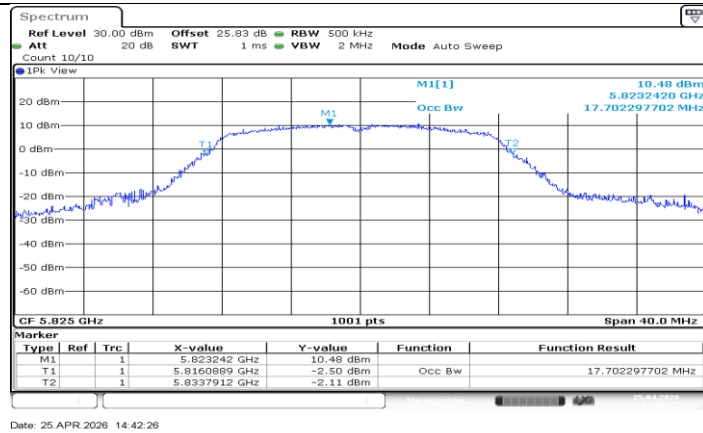
11A_Ant1_5720



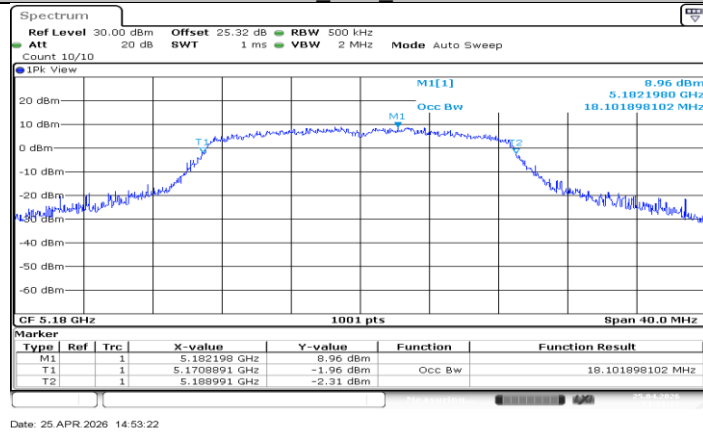
11A_Ant1_5745



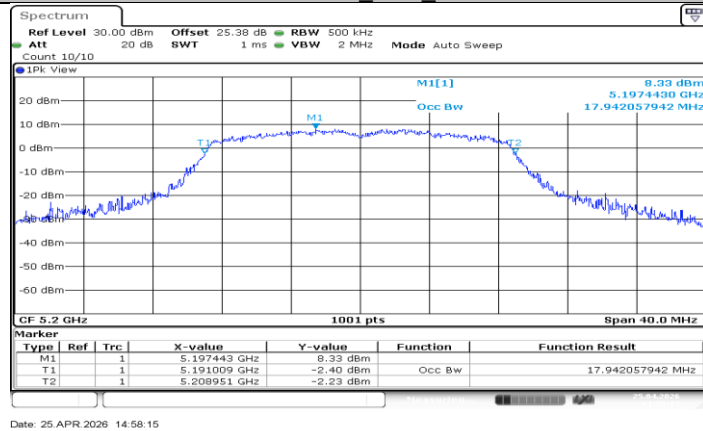
11A_Ant1_5785



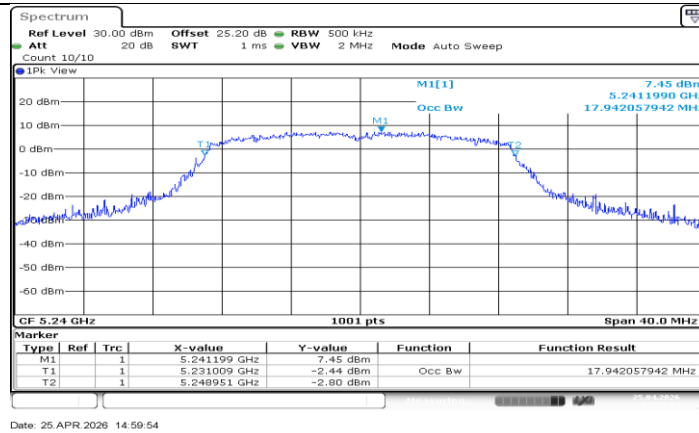
11A_Ant1_5825



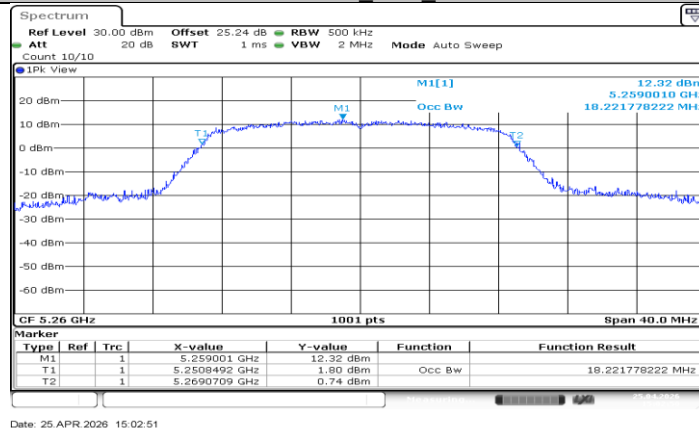
11N20SISO_Ant1_5180



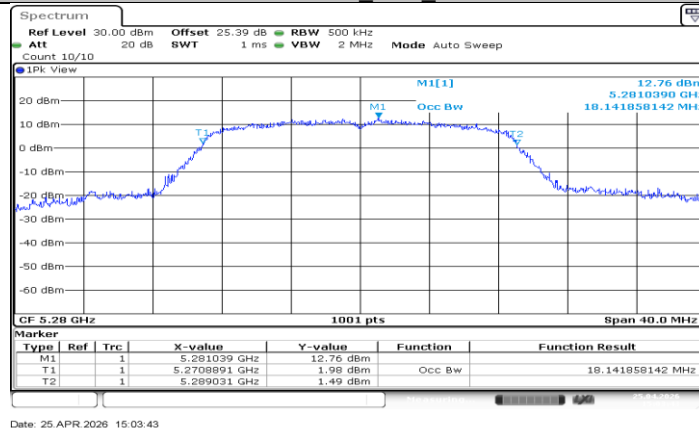
11N20SISO_Ant1_5200



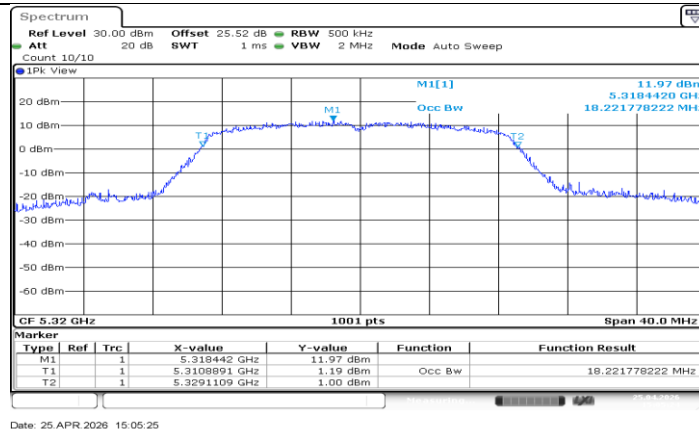
11N20SISO_Ant1_5240



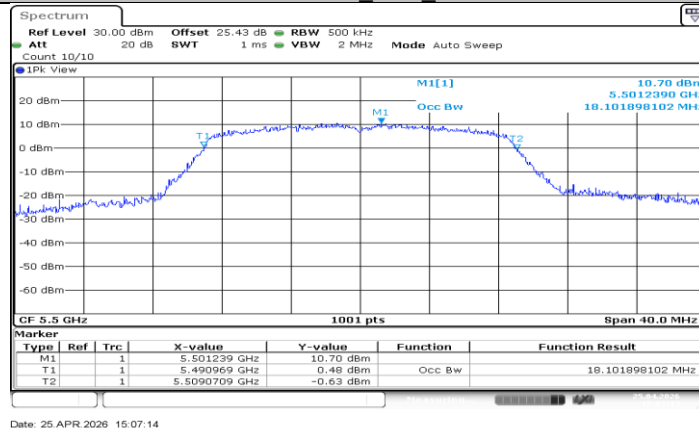
11N20SISO_Ant1_5260



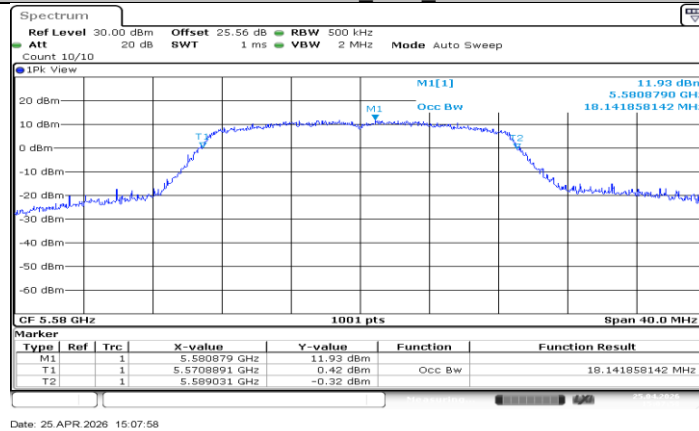
11N20SISO_Ant1_5280



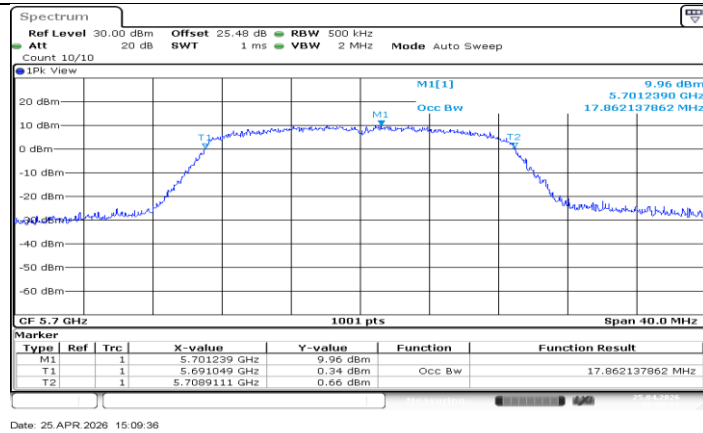
11N20SISO_Ant1_5320



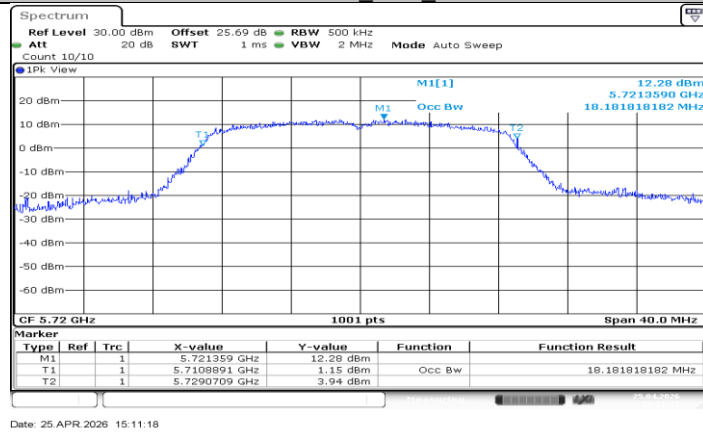
11N20SISO_Ant1_5500



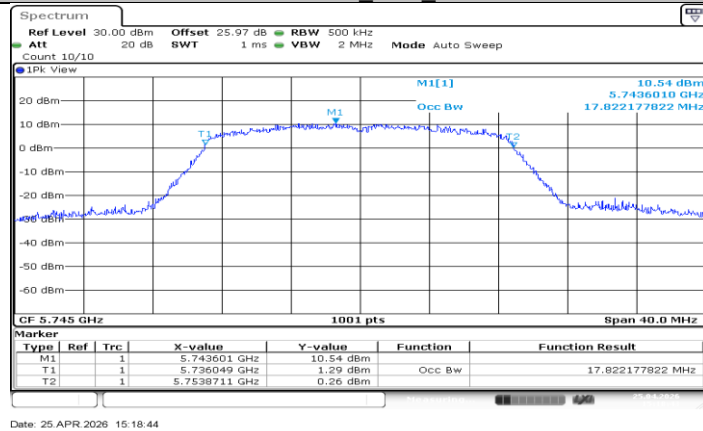
11N20SISO_Ant1_5580



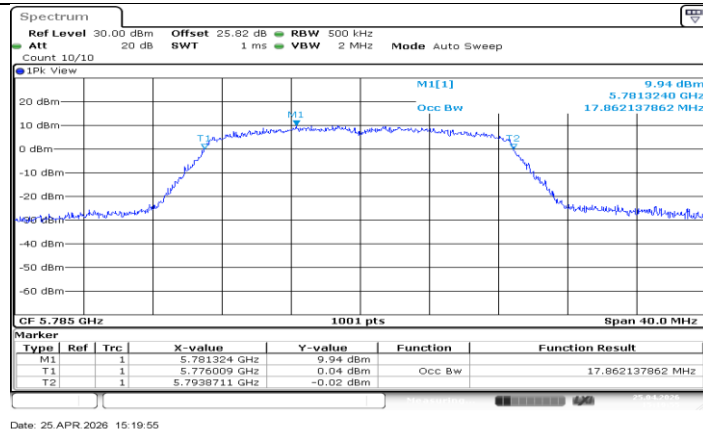
11N20SISO_Ant1_5700



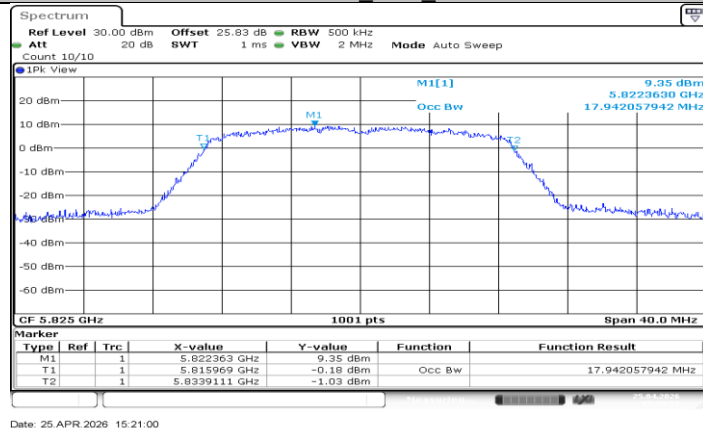
11N20SISO_Ant1_5720



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



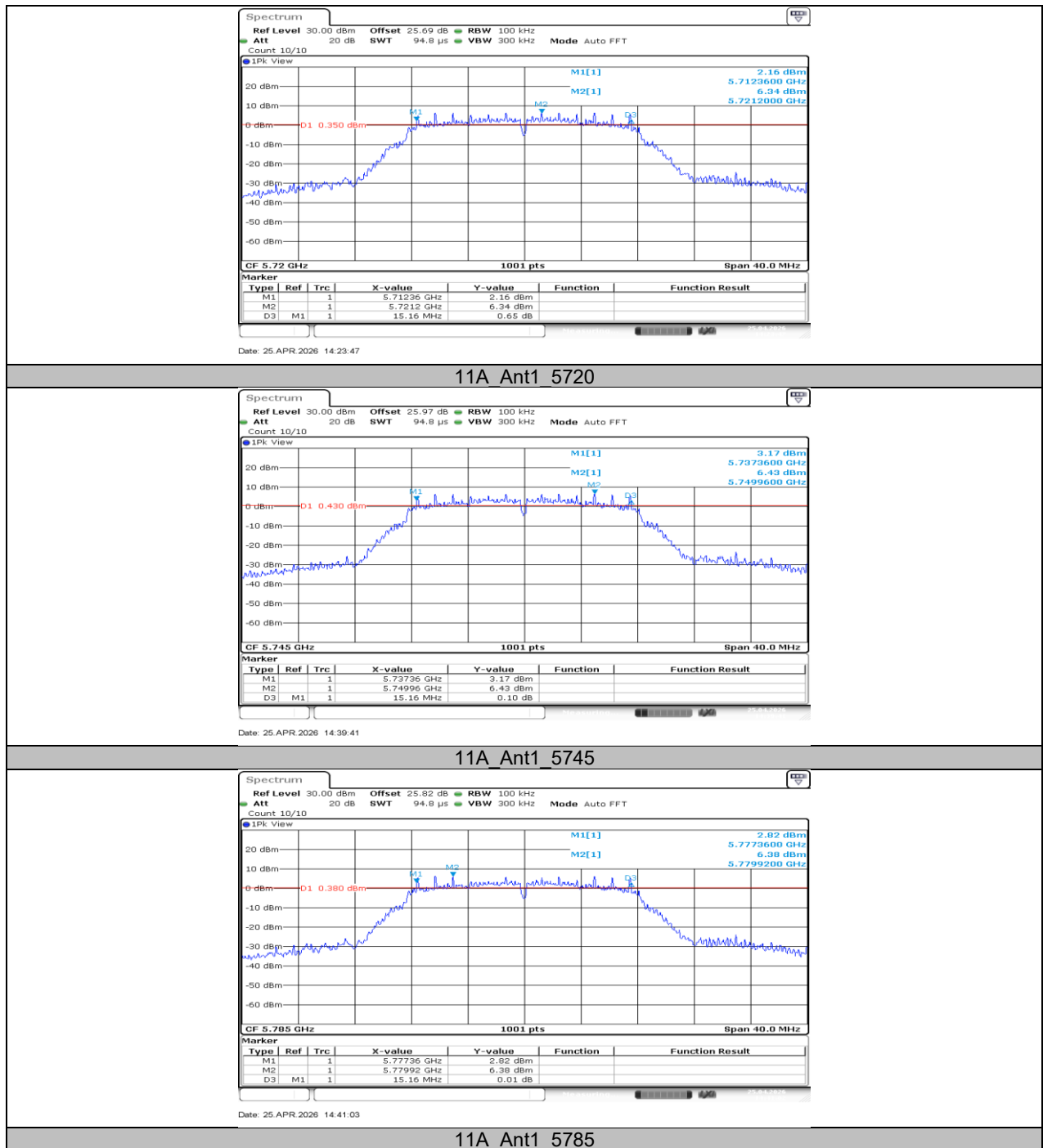
11N20SISO_Ant1_5825

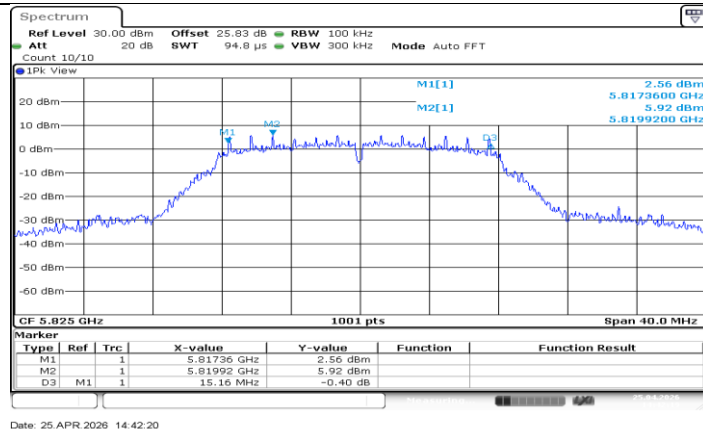
11.3. APPENDIX C: MIN EMISSION BANDWIDTH

11.3.1. Test Result

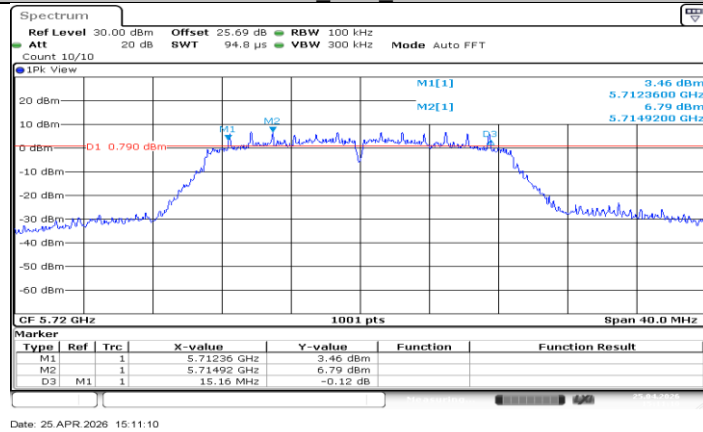
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720	15.16	5712.36	5727.52	---	---
		5720 UNII-2C	12.64	5712.36	5725	---	---
		5720 UNII-3	2.52	5725	5727.52	≥0.5	PASS
		5745	15.16	5737.36	5752.52	≥0.5	PASS
		5785	15.16	5777.36	5792.52	≥0.5	PASS
		5825	15.16	5817.36	5819.92	≥0.5	PASS
11N20SISO	Ant1	5720	15.16	5712.36	5727.52	---	---
		5720 UNII-2C	12.64	5712.36	5725	---	---
		5720 UNII-3	2.52	5725	5727.52	≥0.5	PASS
		5745	15.16	5737.36	5752.52	≥0.5	PASS
		5785	15.16	5777.36	5792.52	≥0.5	PASS
		5825	15.64	5816.88	5832.52	≥0.5	PASS

11.3.2. Test Graphs

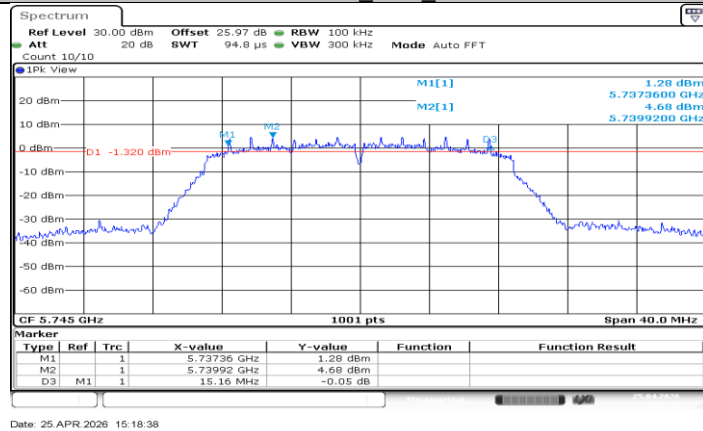




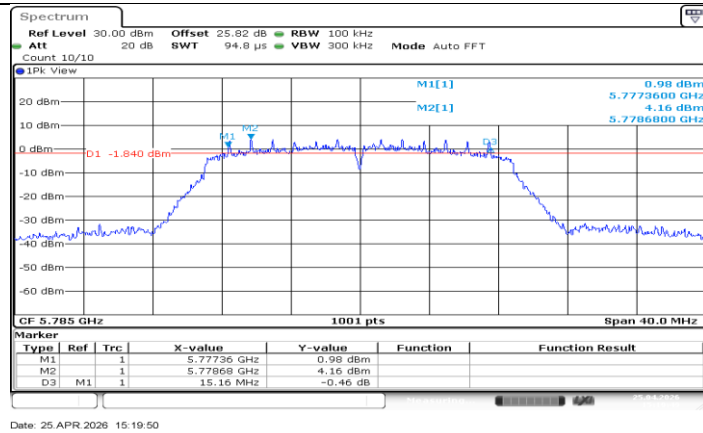
11A_Ant1_5825



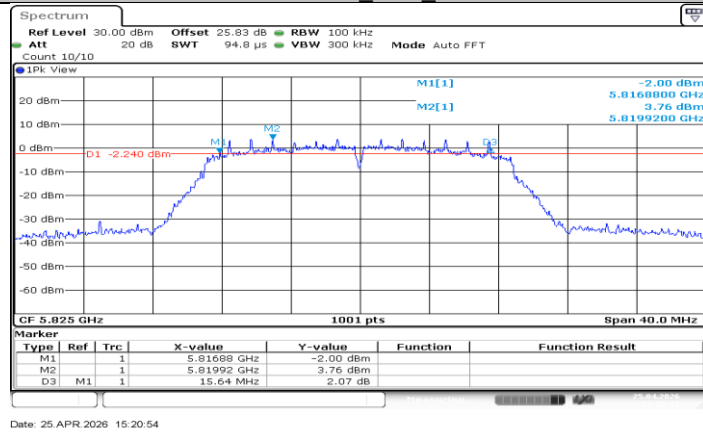
11N20SISO_Ant1_5720



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

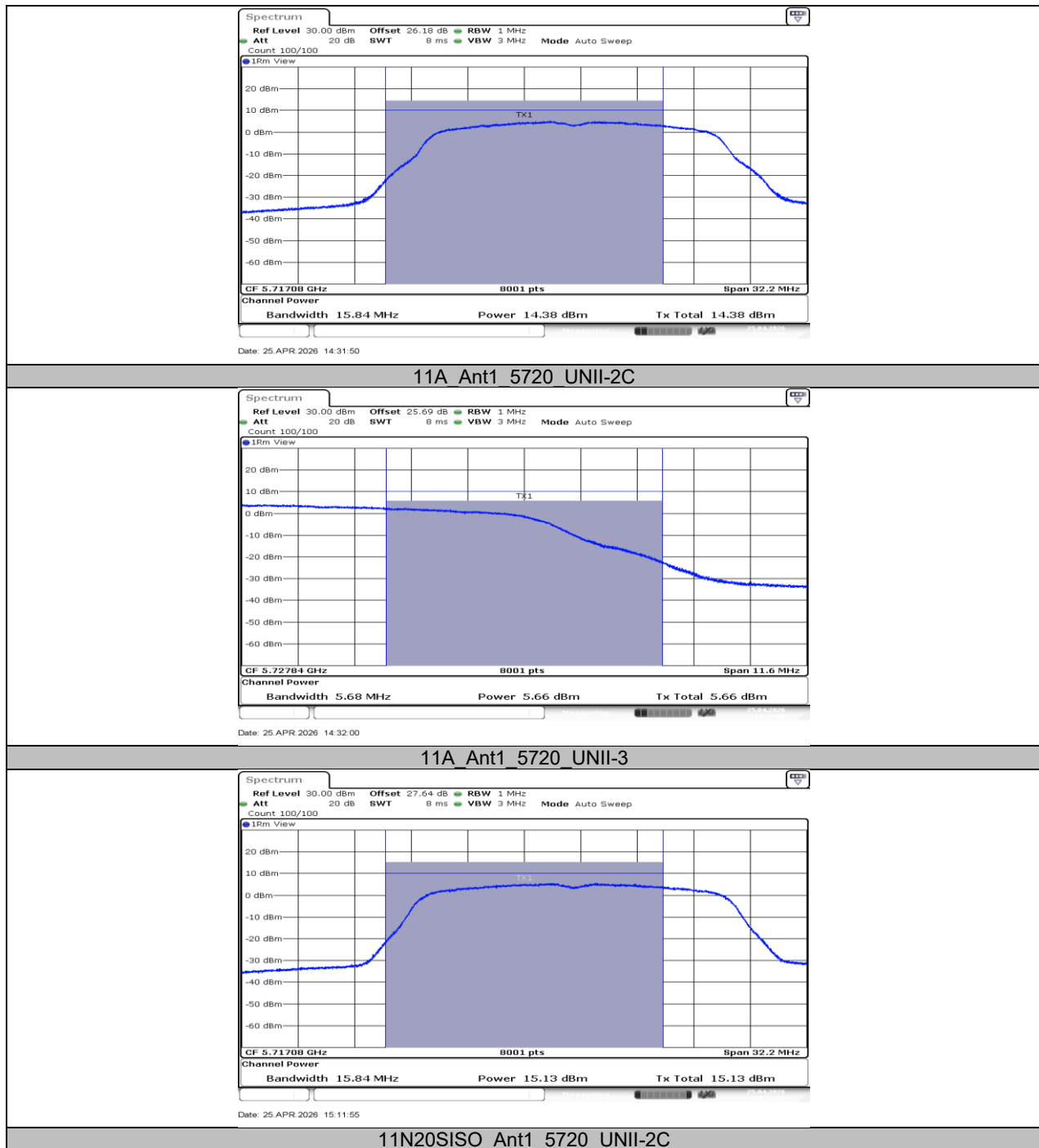
11.4.1. Test Result

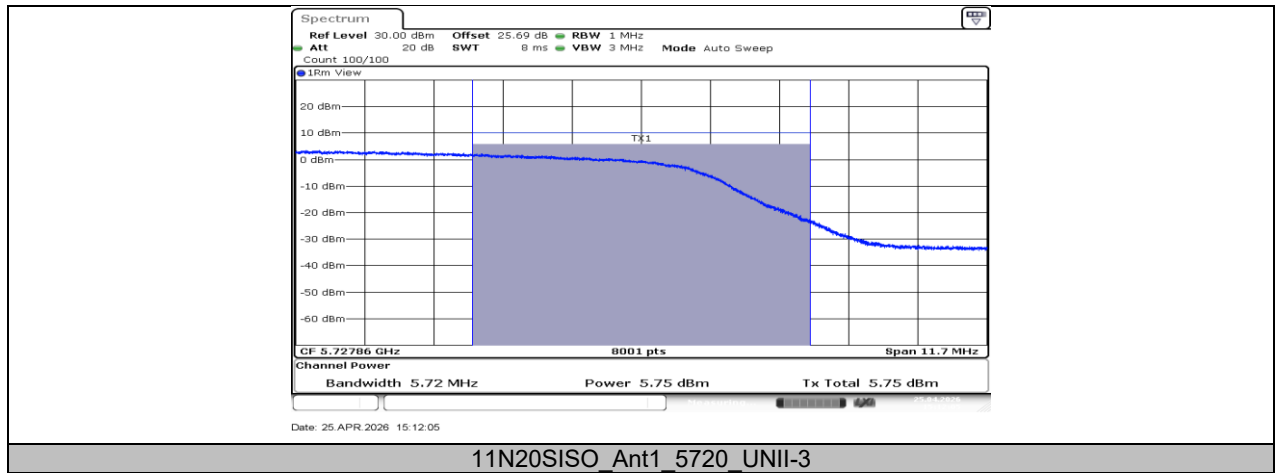
Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.05	≤23.98	---	19.26	≤22.33	PASS
		5200	14.00	≤23.98	---	19.21	≤22.65	PASS
		5240	13.45	≤23.98	---	18.66	≤22.64	PASS
		5260	16.88	≤23.98	≤23.55	22.09	≤29.55	PASS
		5280	16.99	≤23.98	≤23.54	22.20	≤29.54	PASS
		5320	16.69	≤23.98	≤23.54	21.90	≤29.54	PASS
		5500	13.94	≤23.98	≤23.51	19.15	≤29.51	PASS
		5580	14.75	≤23.98	≤23.51	19.96	≤29.51	PASS
		5700	14.90	≤23.98	≤23.38	20.11	≤29.38	PASS
		5720 UNII-2C	14.38	≤23.00	≤22.46	19.59	≤28.46	PASS
		5720 UNII-3	5.66	≤30.00	≤30.00	10.87	---	PASS
		5745	17.26	≤30.00	≤30.00	22.47	---	PASS
		5785	16.78	≤30.00	≤30.00	21.99	---	PASS
		5825	16.35	≤30.00	≤30.00	21.56	---	PASS
11N20SISO	Ant1	5180	13.85	≤23.98	---	19.06	≤22.58	PASS
		5200	13.75	≤23.98	---	18.96	≤22.54	PASS
		5240	14.26	≤23.98	---	19.47	≤22.54	PASS
		5260	17.88	≤23.98	≤23.61	23.09	≤29.61	PASS
		5280	17.97	≤23.98	≤23.59	23.18	≤29.59	PASS
		5320	17.65	≤23.98	≤23.61	22.86	≤29.61	PASS
		5500	15.96	≤23.98	≤23.58	21.17	≤29.58	PASS
		5580	15.61	≤23.98	≤23.59	20.82	≤29.59	PASS
		5700	15.77	≤23.98	≤23.52	20.98	≤29.52	PASS
		5720 UNII-2C	15.13	≤23.00	≤22.50	20.34	≤28.50	PASS
		5720 UNII-3	5.75	≤30.00	≤30.00	10.96	---	PASS
		5745	16.16	≤30.00	≤30.00	21.37	---	PASS
		5785	15.61	≤30.00	≤30.00	20.82	---	PASS
		5825	15.24	≤30.00	≤30.00	20.45	---	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.4.2. Test Graphs





11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

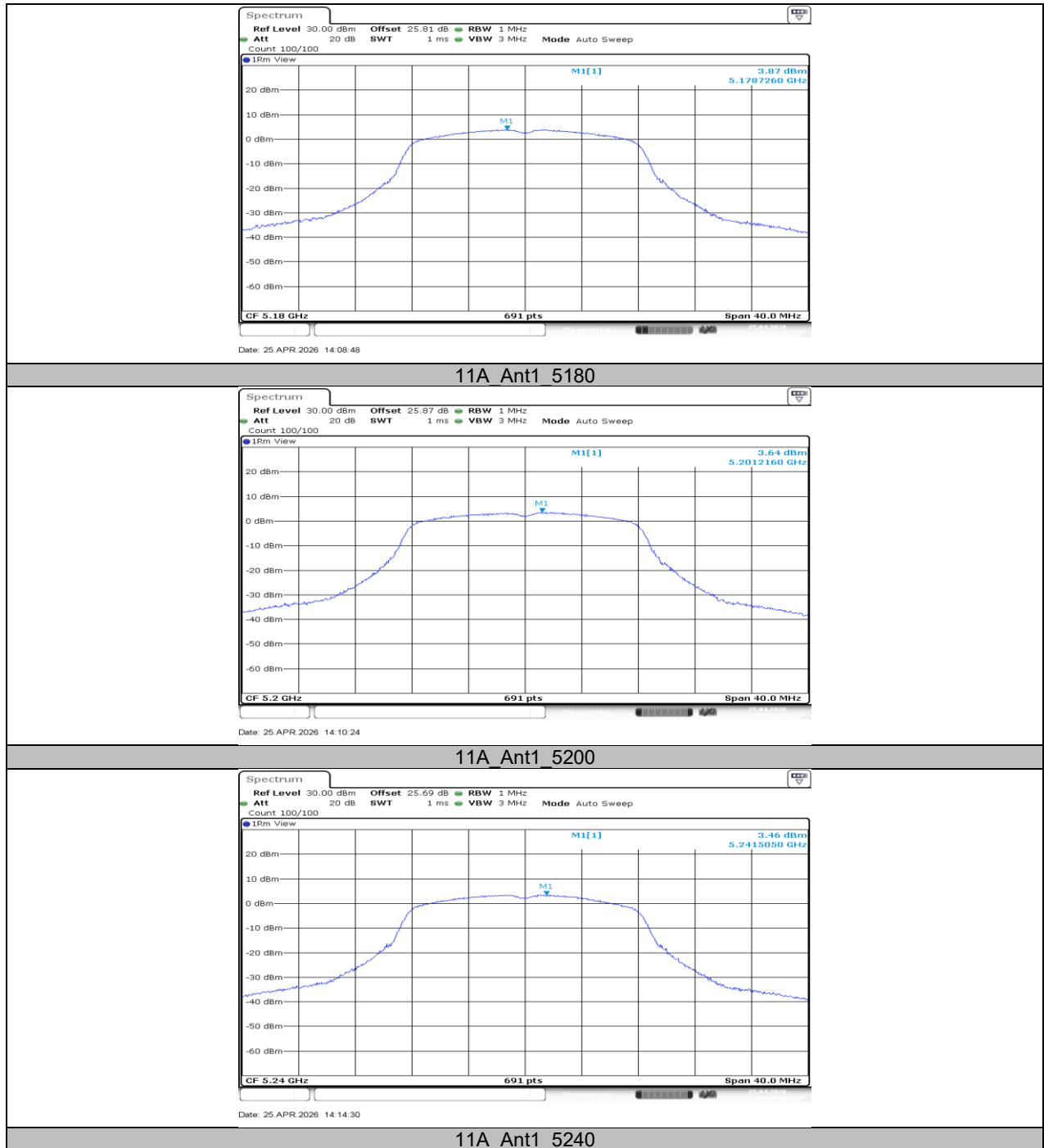
11.5.1. Test Result

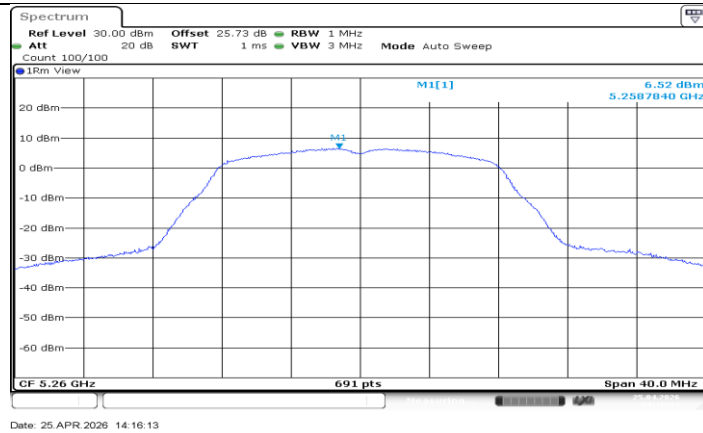
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	3.87	≤11.00	9.08	≤10.00	PASS
		5200	3.64	≤11.00	8.85	≤10.00	PASS
		5240	3.46	≤11.00	8.67	≤10.00	PASS
		5260	6.52	≤11.00	11.73	---	PASS
		5280	6.67	≤11.00	11.88	---	PASS
		5320	6.44	≤11.00	11.65	---	PASS
		5500	3.61	≤11.00	8.82	---	PASS
		5580	4.46	≤11.00	9.67	---	PASS
		5700	4.77	≤11.00	9.98	---	PASS
		5720 UNII-2C	4.78	≤11.00	9.99	---	PASS
		5720 UNII-3	-0.01	≤30.00	5.20	---	PASS
		5745	4.22	≤30.00	9.43	---	PASS
		5785	3.46	≤30.00	8.67	---	PASS
		5825	3.54	≤30.00	8.75	---	PASS
11N20SISO	Ant1	5180	3.32	≤11.00	8.53	≤10.00	PASS
		5200	3.38	≤11.00	8.59	≤10.00	PASS
		5240	3.92	≤11.00	9.13	≤10.00	PASS
		5260	7.28	≤11.00	12.49	---	PASS
		5280	7.40	≤11.00	12.61	---	PASS
		5320	7.06	≤11.00	12.27	---	PASS
		5500	5.56	≤11.00	10.77	---	PASS
		5580	5.18	≤11.00	10.39	---	PASS
		5700	5.16	≤11.00	10.37	---	PASS
		5720 UNII-2C	5.92	≤11.00	11.13	---	PASS
		5720 UNII-3	1.88	≤30.00	7.09	---	PASS
		5745	3.12	≤30.00	8.33	---	PASS
		5785	2.53	≤30.00	7.74	---	PASS
		5825	2.00	≤11.00	7.21	---	PASS

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

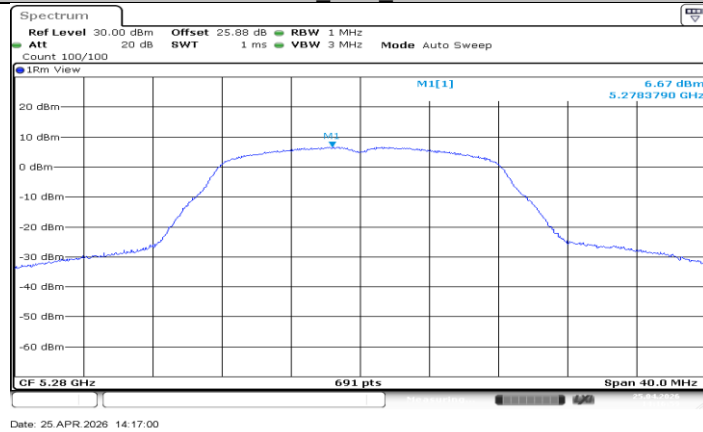
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs

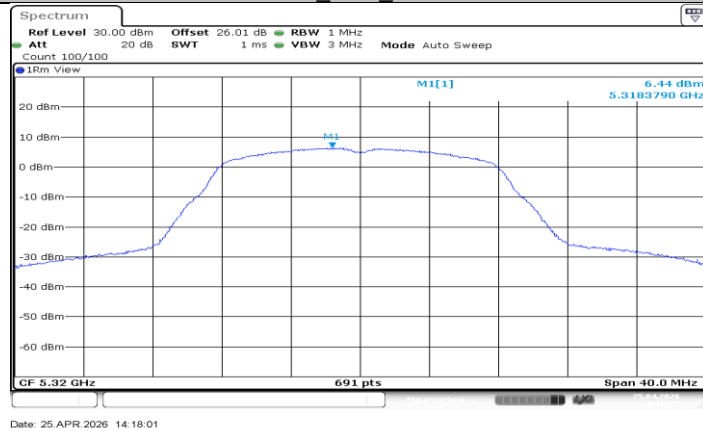




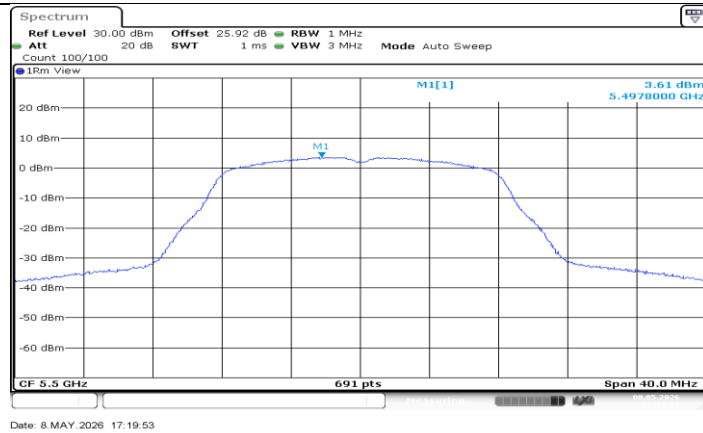
11A_Ant1_5260



11A_Ant1_5280



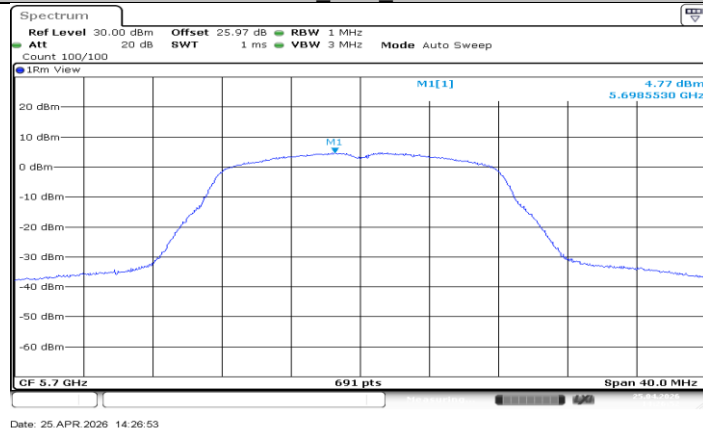
11A_Ant1_5320



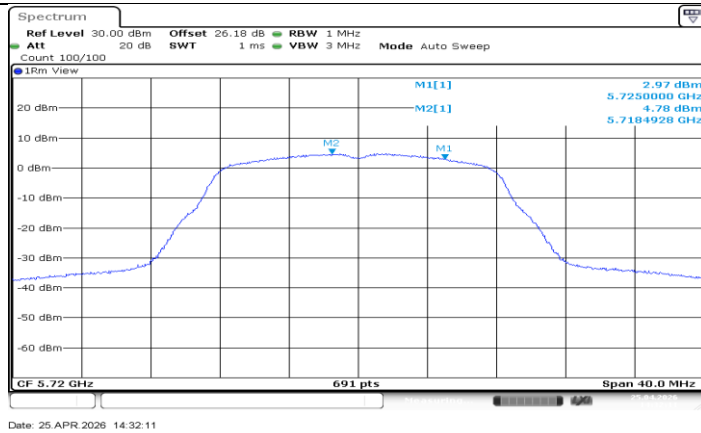
11A_Ant1_5500



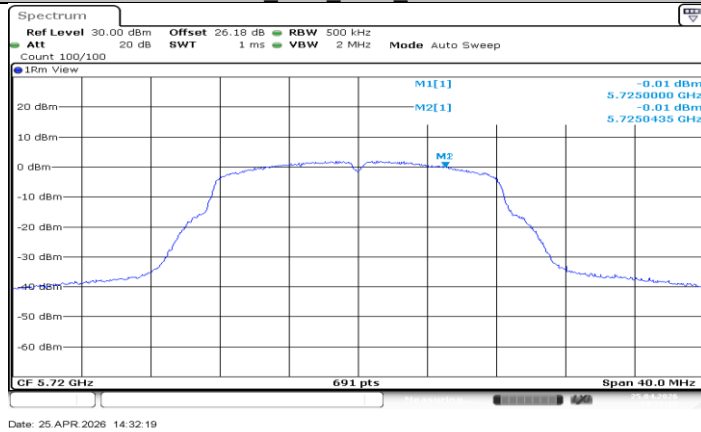
11A_Ant1_5580



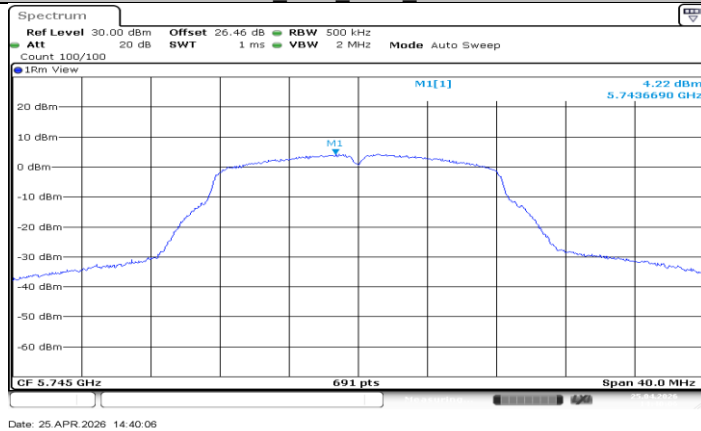
11A_Ant1_5700



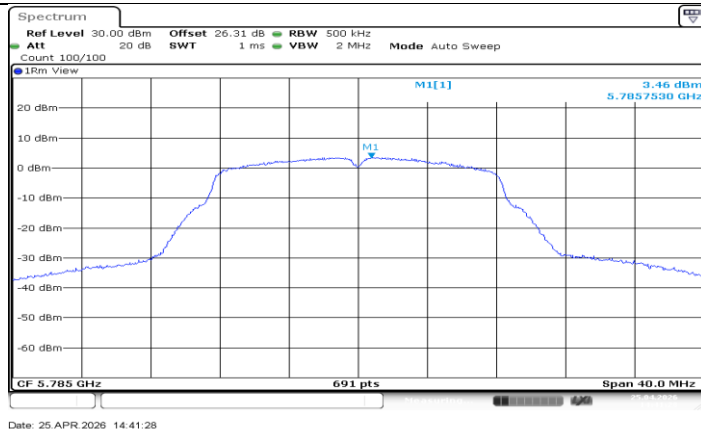
11A_Ant1_5720_UNII-2C



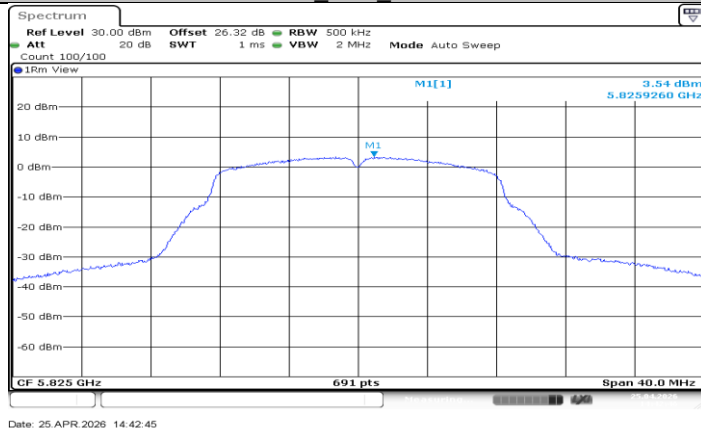
11A_Ant1_5720_UNII-3



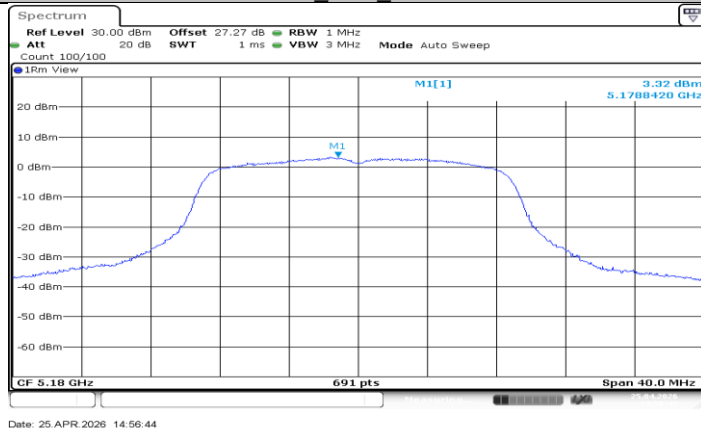
11A_Ant1_5745



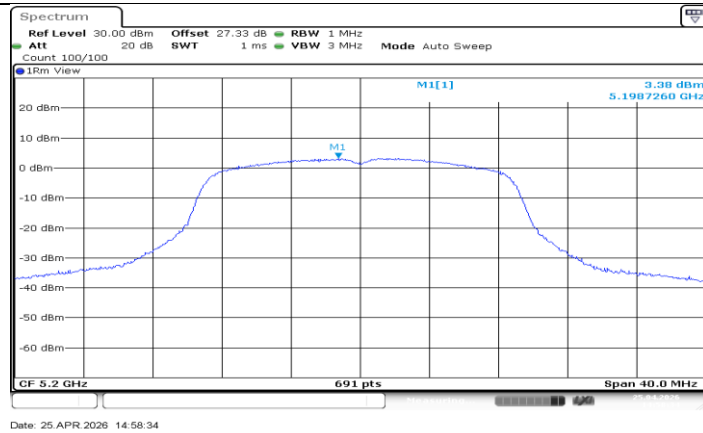
11A_Ant1_5785



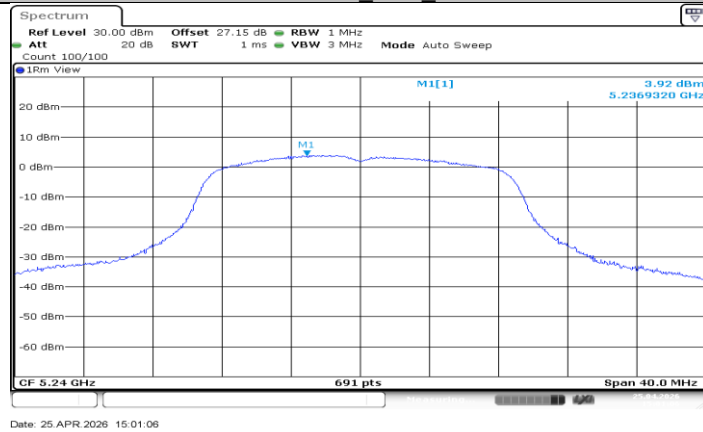
11A_Ant1_5825



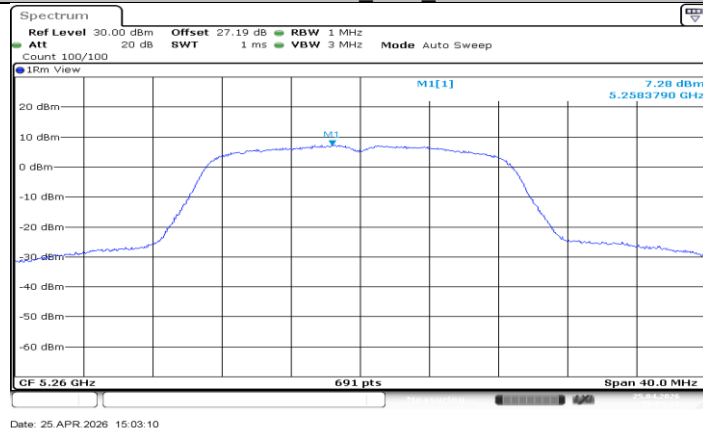
11N20SISO_Ant1_5180



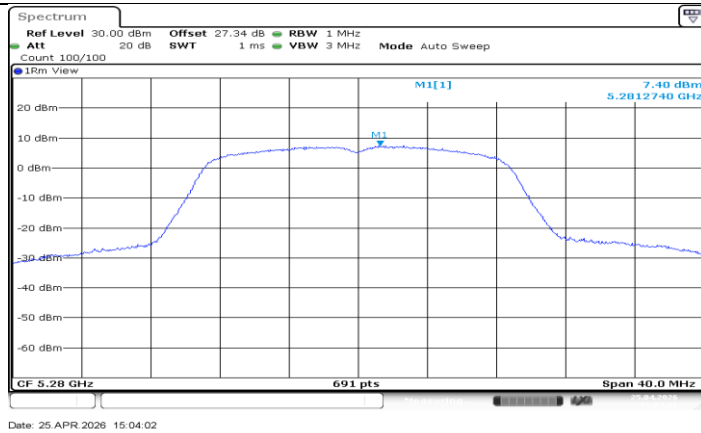
11N20SISO_Ant1_5200



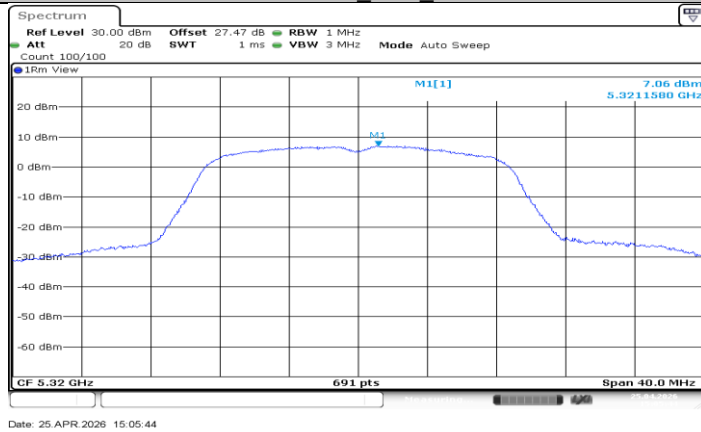
11N20SISO_Ant1_5240



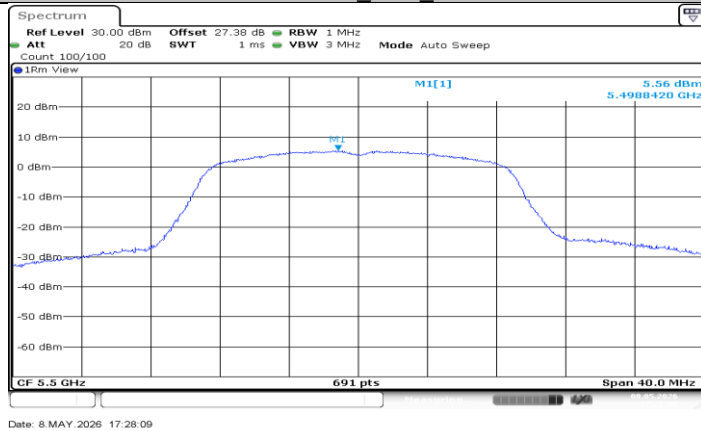
11N20SISO_Ant1_5260



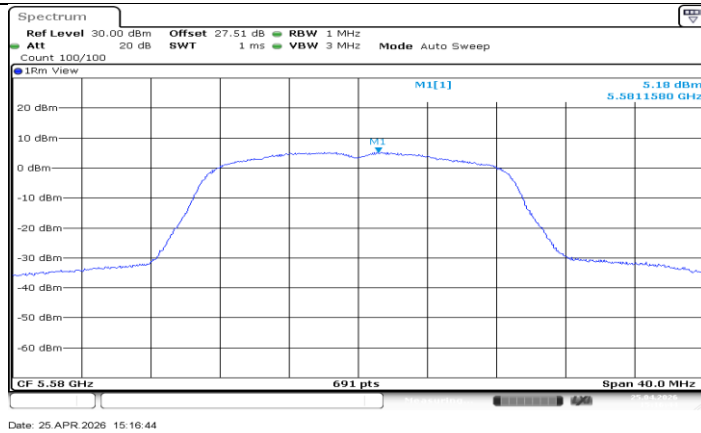
11N20SISO_Ant1_5280



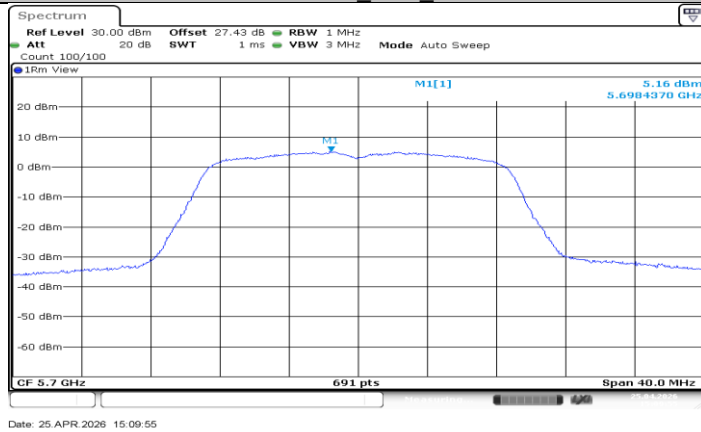
11N20SISO_Ant1_5320



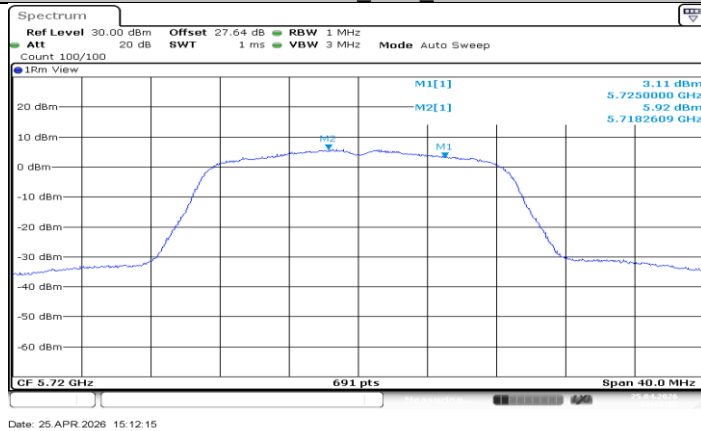
11N20SISO_Ant1_5500



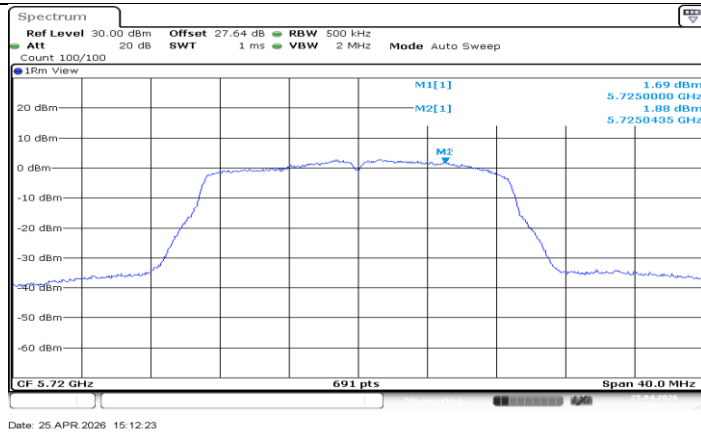
11N20SISO_Ant1_5580



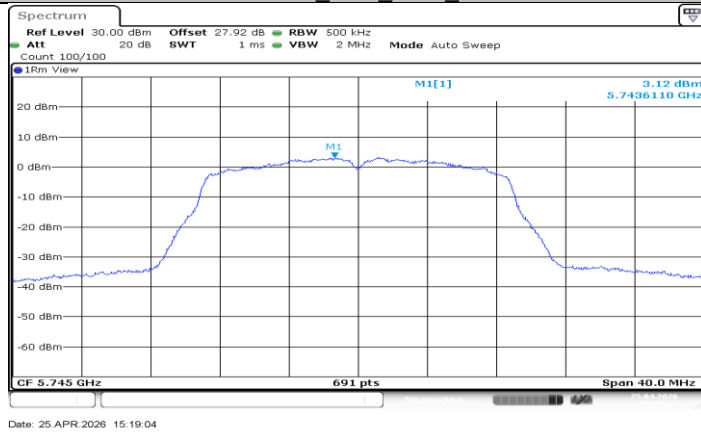
11N20SISO_Ant1_5700



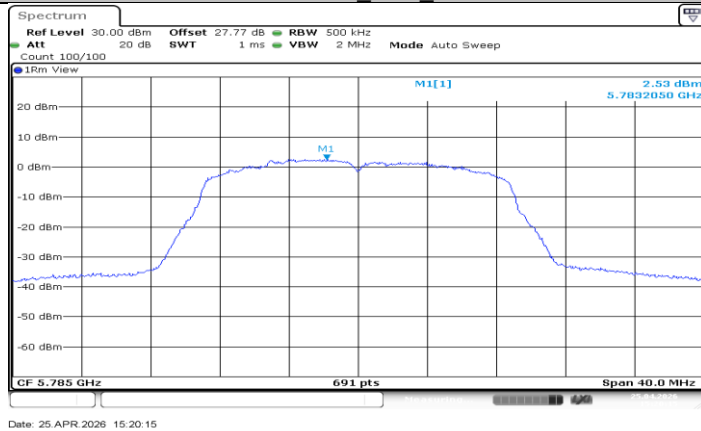
11N20SISO_Ant1_5720_UNII-2C



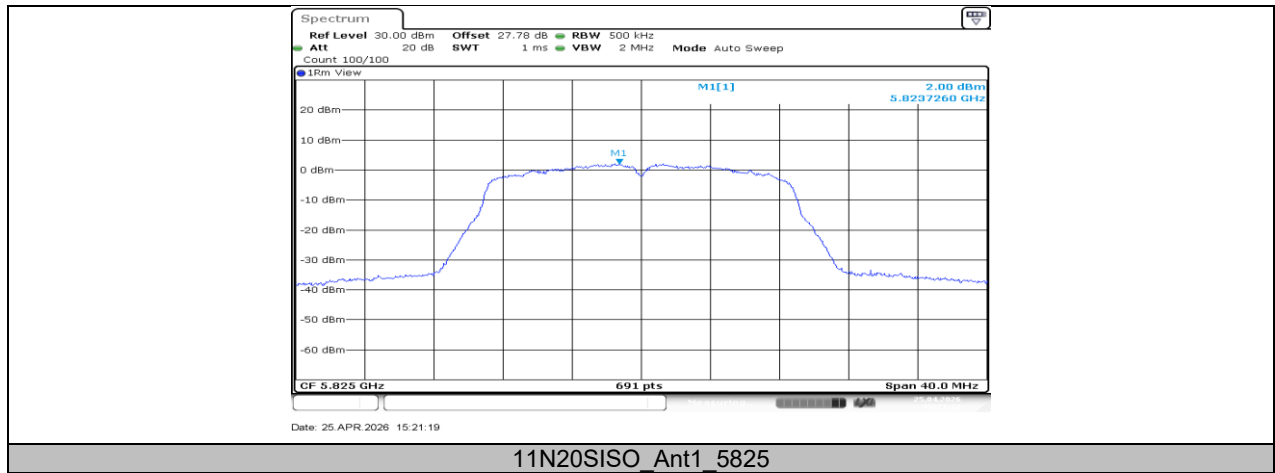
11N20SISO_Ant1_5720_UNII-3



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
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)
TN	VL	5200.0053	1.02	5200.0041	0.79	5200.0115	2.21	5199.9752	-4.78
TN	VN	5199.9769	-4.44	5199.9805	-3.74	5199.9803	-3.79	5200.0151	2.91
TN	VH	5199.9926	-1.42	5199.9811	-3.64	5199.9757	-4.68	5200.0162	3.11
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)
85	VN	5199.9869	-2.53	5199.9929	-1.37	5199.9972	-0.54	5199.9950	-0.97
80	VN	5199.9962	-0.74	5200.0048	0.93	5200.0045	0.87	5199.9878	-2.35
70	VN	5200.0194	3.73	5200.0015	0.29	5200.0108	2.08	5200.0192	3.69
60	VN	5199.9927	-1.41	5200.0125	2.40	5199.9961	-0.76	5199.9837	-3.13
50	VN	5199.9996	-0.07	5199.9860	-2.70	5200.0196	3.77	5199.9815	-3.55
40	VN	5200.0014	0.27	5199.9767	-4.48	5199.9979	-0.41	5199.9820	-3.47
30	VN	5200.0203	3.90	5200.0051	0.97	5199.9877	-2.37	5199.9769	-4.45
20	VN	5199.9774	-4.34	5199.9920	-1.54	5199.9789	-4.07	5199.9990	-0.20
10	VN	5200.0037	0.72	5199.9800	-3.84	5200.0081	1.56	5200.0113	2.18
0	VN	5200.0141	2.71	5200.0074	1.42	5200.0001	0.02	5199.9792	-4.00

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 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	0.92	1.03	0.8932	89.32	0.49	1.09	2
11N20SISO	0.3	0.47	0.6383	63.83	1.95	3.33	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.

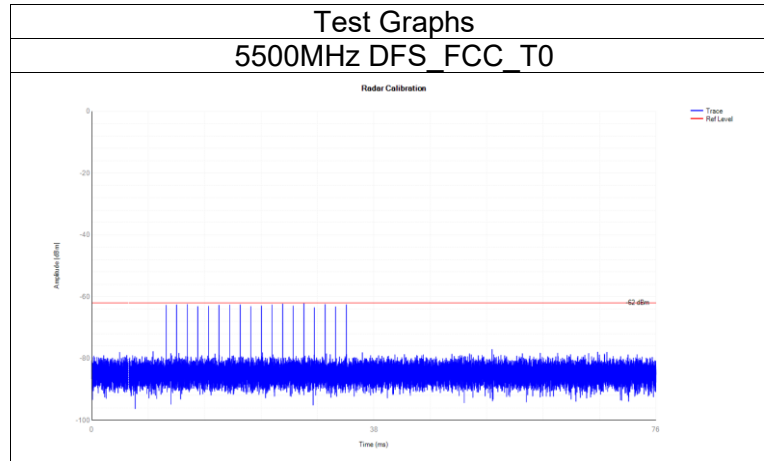
11.7.2. Test Graphs



11.8. APPENDIX H: DFS

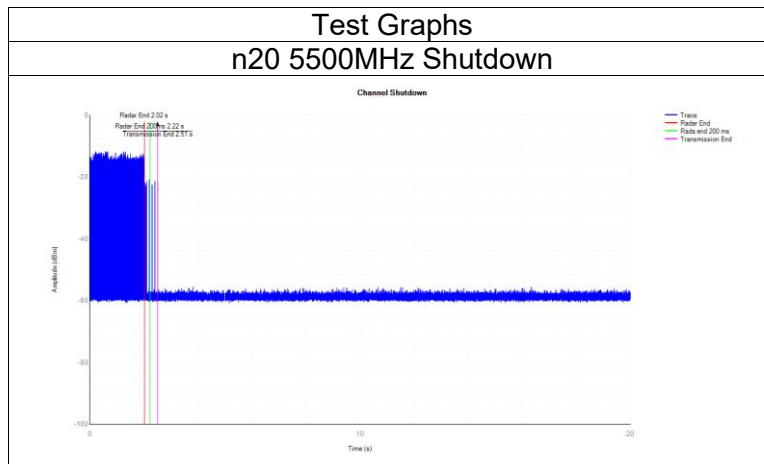
11.8.1. Calibration

Mode	Frequency (MHz)	Type	Result	Verdict
n20	5500	DFS_FCC_T0	See test Graph	Pass



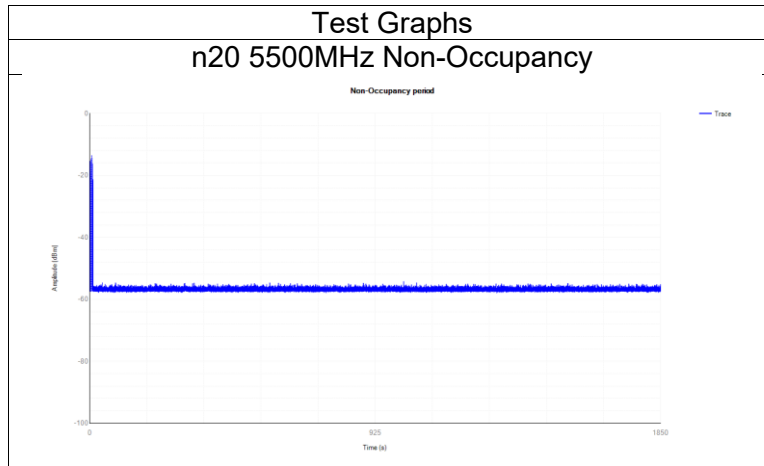
11.8.2. Shutdown Time

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
n20	5500	0.488	10	0.015	0.26	0.004	0.06	Pass



11.8.3. Non-Occupancy

Mode	Frequency (MHz)	Result	Verdict
n20	5500	See test Graph	Pass



END OF REPORT