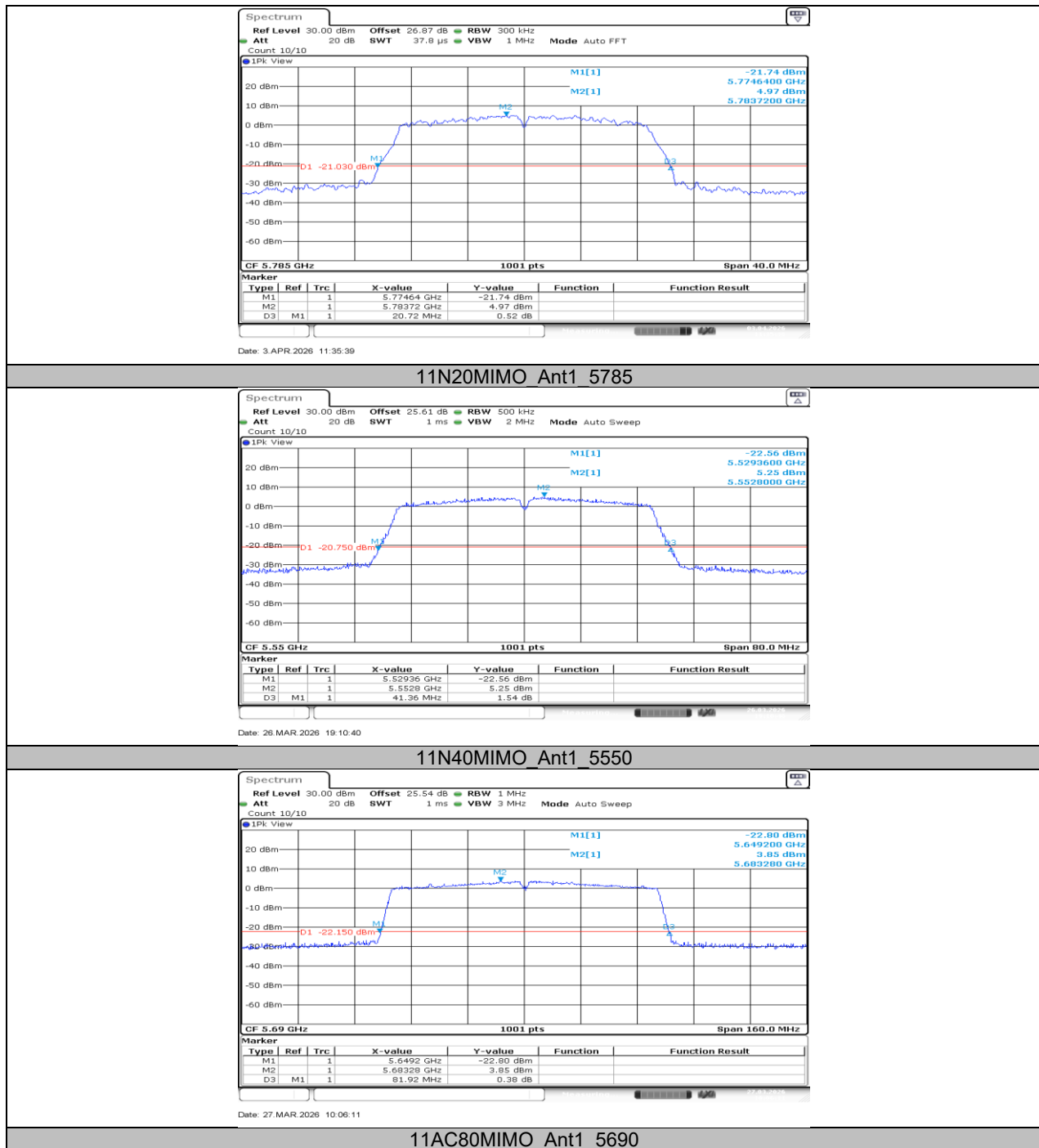


11.1.2. Test Graphs



Note:

1. Only the worst data plots were reported to show setting parameter compliance with testing method/procedure.
2. RBW setting to 300kHz is used in 802.11a/n HT20 modes.
3. RBW setting to 500kHz is used in 802.11n HT40 mode.
4. RBW setting to 1MHz is used in 802.11ac VHT80 mode.

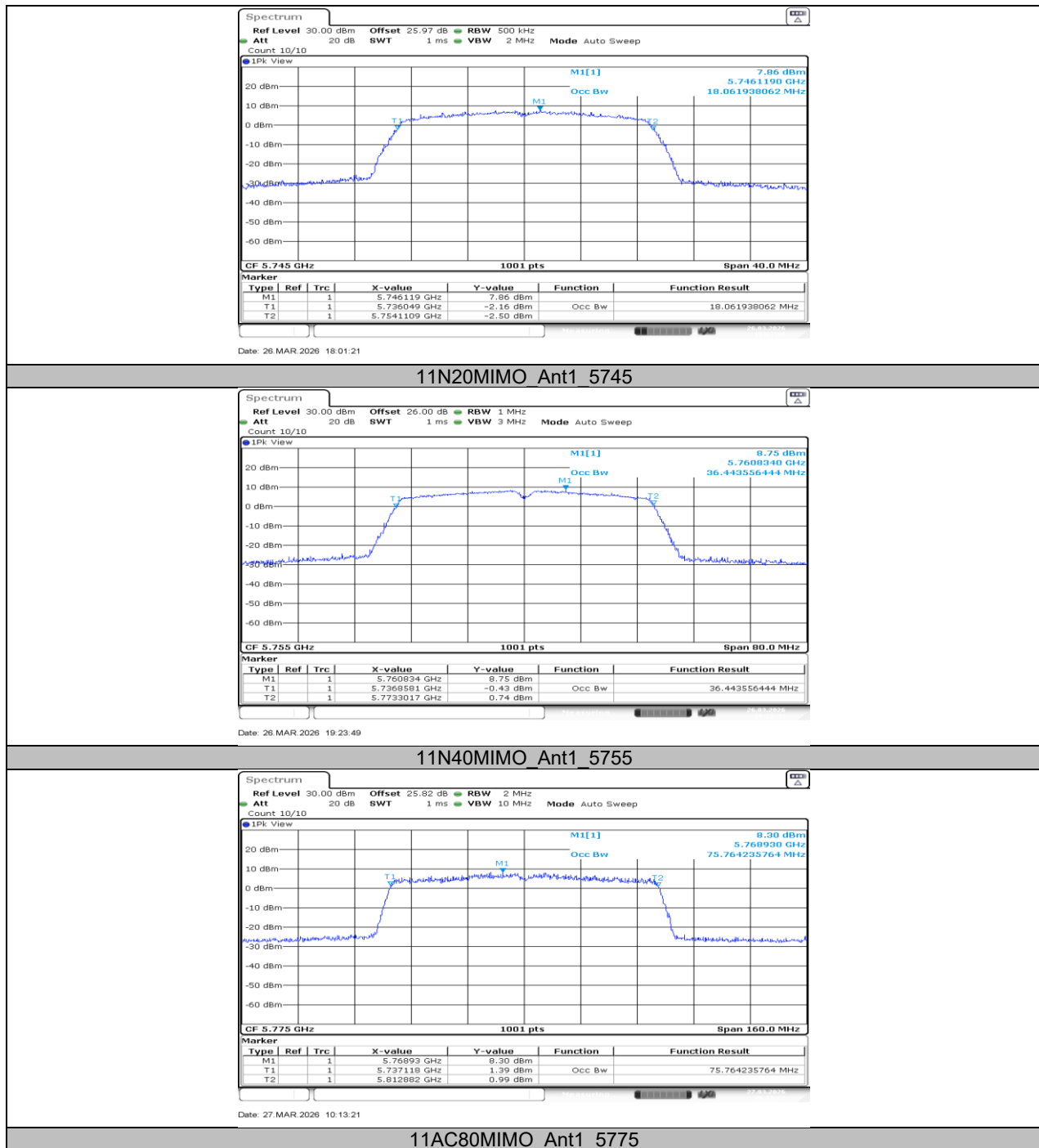
11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	17.143	5171.4086	5188.5514	PASS
	Ant2	5180	17.143	5171.4086	5188.5514	PASS
	Ant1	5200	17.223	5191.3686	5208.5914	PASS
	Ant2	5200	17.183	5191.3686	5208.5514	PASS
	Ant1	5240	17.183	5231.3686	5248.5514	PASS
	Ant2	5240	17.143	5231.4086	5248.5514	PASS
	Ant1	5260	17.223	5251.3686	5268.5914	PASS
	Ant2	5260	17.223	5251.3686	5268.5914	PASS
	Ant1	5280	17.103	5271.4486	5288.5514	PASS
	Ant2	5280	17.183	5271.4086	5288.5914	PASS
	Ant1	5320	17.183	5311.4086	5328.5914	PASS
	Ant2	5320	17.183	5311.3686	5328.5514	PASS
	Ant1	5500	17.103	5491.4086	5508.5115	PASS
	Ant2	5500	17.063	5491.4885	5508.5514	PASS
	Ant1	5580	17.183	5571.3686	5588.5514	PASS
	Ant2	5580	17.143	5571.4086	5588.5514	PASS
	Ant1	5700	17.223	5691.3686	5708.5914	PASS
	Ant2	5700	17.183	5691.3686	5708.5514	PASS
	Ant1	5720	17.143	5711.4086	5728.5514	PASS
	Ant2	5720	17.103	5711.4086	5728.5115	PASS
	Ant1	5720 UNII-2C	13.591	5711.4086	5725	PASS
	Ant2	5720 UNII-2C	13.591	5711.4086	5725	PASS
	Ant1	5720 UNII-3	3.551	5725	5728.5514	PASS
	Ant2	5720 UNII-3	3.511	5725	5728.5115	PASS
	Ant1	5745	17.143	5736.3686	5753.5115	PASS
	Ant2	5745	17.183	5736.3686	5753.5514	PASS
	Ant1	5785	17.223	5776.3686	5793.5914	PASS
	Ant2	5785	17.143	5776.4086	5793.5514	PASS
	Ant1	5825	17.183	5816.3686	5833.5514	PASS
	Ant2	5825	17.143	5816.4086	5833.5514	PASS
11N20MIMO	Ant1	5180	17.982	5171.0490	5189.0310	PASS
	Ant2	5180	17.782	5171.1289	5188.9111	PASS
	Ant1	5200	18.022	5191.0090	5209.0310	PASS
	Ant2	5200	17.822	5191.1289	5208.9510	PASS
	Ant1	5240	17.982	5231.0490	5249.0310	PASS
	Ant2	5240	17.822	5231.1289	5248.9510	PASS
	Ant1	5260	18.022	5251.0090	5269.0310	PASS
	Ant2	5260	17.822	5251.1289	5268.9510	PASS
	Ant1	5280	18.022	5271.0490	5289.0709	PASS
	Ant2	5280	17.782	5271.1289	5288.9111	PASS
	Ant1	5320	18.022	5311.0490	5329.0709	PASS
	Ant2	5320	17.782	5311.1289	5328.9111	PASS
	Ant1	5500	18.022	5491.0490	5509.0709	PASS
	Ant2	5500	17.782	5491.1688	5508.9510	PASS
	Ant1	5580	17.982	5571.0490	5589.0310	PASS
	Ant2	5580	17.742	5571.1688	5588.9111	PASS
	Ant1	5700	18.022	5691.0490	5709.0709	PASS
	Ant2	5700	17.782	5691.1688	5708.9510	PASS
	Ant1	5720	18.022	5711.0490	5729.0709	PASS
	Ant2	5720	17.782	5711.1688	5728.9510	PASS
	Ant1	5720 UNII-2C	13.951	5711.0490	5725	PASS
	Ant2	5720 UNII-2C	13.831	5711.1688	5725	PASS
	Ant1	5720 UNII-3	4.071	5725	5729.0709	PASS
	Ant2	5720 UNII-3	3.951	5725	5728.9510	PASS
	Ant1	5745	18.062	5736.0490	5754.1109	PASS

	Ant2	5745	17.822	5736.1688	5753.9910	PASS
	Ant1	5785	18.022	5776.0490	5794.0709	PASS
	Ant2	5785	17.822	5776.1688	5793.9910	PASS
	Ant1	5825	17.982	5816.0889	5834.0709	PASS
	Ant2	5825	17.782	5816.1688	5833.9510	PASS
11N40MIMO	Ant1	5190	36.284	5171.9381	5208.2218	PASS
	Ant2	5190	36.124	5172.0180	5208.1419	PASS
	Ant1	5230	36.284	5211.9381	5248.2218	PASS
	Ant2	5230	36.204	5211.9381	5248.1419	PASS
	Ant1	5270	36.284	5251.9381	5288.2218	PASS
	Ant2	5270	36.284	5251.9381	5288.2218	PASS
	Ant1	5310	36.284	5291.9381	5328.2218	PASS
	Ant2	5310	36.204	5291.9381	5328.1419	PASS
	Ant1	5510	36.364	5491.8581	5528.2218	PASS
	Ant2	5510	36.444	5491.8581	5528.3017	PASS
	Ant1	5550	36.444	5531.8581	5568.3017	PASS
	Ant2	5550	36.284	5531.9381	5568.2218	PASS
	Ant1	5670	36.444	5651.8581	5688.3017	PASS
	Ant2	5670	36.284	5651.9381	5688.2218	PASS
	Ant1	5710	36.364	5691.9381	5728.3017	PASS
	Ant2	5710	36.204	5692.0180	5728.2218	PASS
	Ant1	5710 UNII-2C	33.062	5691.9381	5725	PASS
	Ant2	5710 UNII-2C	32.982	5692.0180	5725	PASS
	Ant1	5710 UNII-3	3.302	5725	5728.3017	PASS
	Ant2	5710 UNII-3	3.222	5725	5728.2218	PASS
	Ant1	5755	36.444	5736.8581	5773.3017	PASS
	Ant2	5755	36.284	5736.9381	5773.2218	PASS
	Ant1	5795	36.444	5776.8581	5813.3017	PASS
	Ant2	5795	36.364	5776.9381	5813.3017	PASS
11AC80MIMO	Ant1	5210	75.604	5172.2777	5247.8821	PASS
	Ant2	5210	75.604	5172.2777	5247.8821	PASS
	Ant1	5290	75.604	5252.2777	5327.8821	PASS
	Ant2	5290	75.445	5252.4376	5327.8821	PASS
	Ant1	5530	75.604	5492.1179	5567.7223	PASS
	Ant2	5530	75.604	5492.2777	5567.8821	PASS
	Ant1	5610	75.604	5572.2777	5647.8821	PASS
	Ant2	5610	75.604	5572.2777	5647.8821	PASS
	Ant1	5690	75.604	5652.2777	5727.8821	PASS
	Ant2	5690	75.445	5652.4376	5727.8821	PASS
	Ant1	5690 UNII-2C	72.722	5652.2777	5725	PASS
	Ant2	5690 UNII-2C	72.562	5652.4376	5725	PASS
	Ant1	5690 UNII-3	2.882	5725	5727.8821	PASS
	Ant2	5690 UNII-3	2.882	5725	5727.8821	PASS
	Ant1	5775	75.764	5737.1179	5812.8821	PASS
	Ant2	5775	75.764	5737.2777	5813.0420	PASS

11.2.2. Test Graphs



Note:

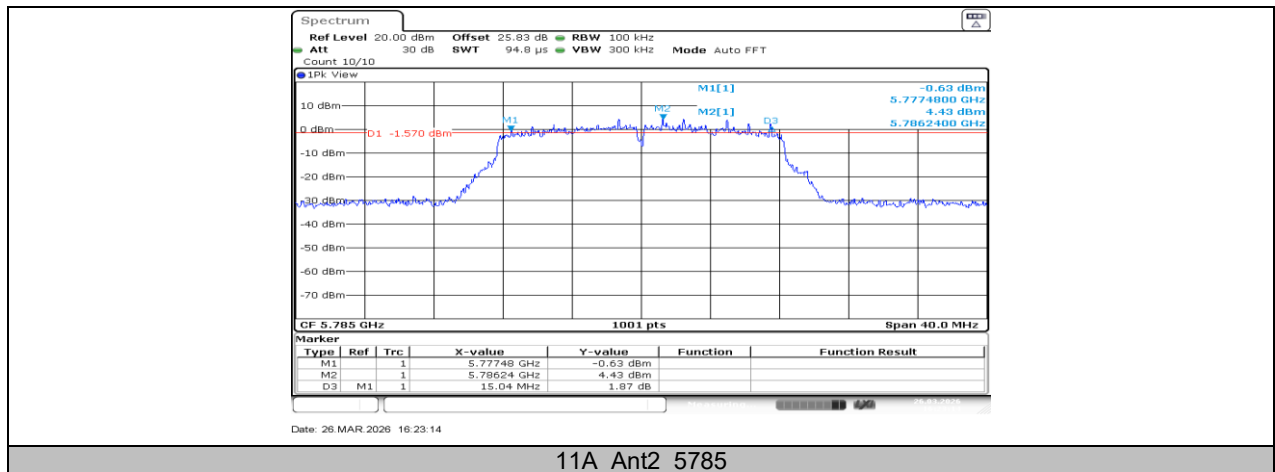
1. Only the worst data plots were reported to show setting parameter compliance with testing method/procedure.
2. RBW setting to 500kHz is used in 802.11a/n HT20 modes.
3. RBW setting to 1MHz is used in 802.11n HT40 modes.
4. RBW setting to 2MHz is used in 802.11ac VHT80 modes.

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	16.32	5711.80	5728.12	---	---
	Ant2	5720	15.92	5711.80	5727.72	---	---
	Ant1	5720 UNII-2C	13.2	5711.80	5725	---	---
	Ant2	5720 UNII-2C	13.2	5711.80	5725	---	---
	Ant1	5720 UNII-3	3.12	5725	5728.12	≥0.5	PASS
	Ant2	5720 UNII-3	2.72	5725	5727.72	≥0.5	PASS
	Ant1	5745	16.28	5736.84	5753.12	≥0.5	PASS
	Ant2	5745	15.12	5737.40	5752.52	≥0.5	PASS
	Ant1	5785	15.08	5777.44	5792.52	≥0.5	PASS
	Ant2	5785	15.04	5777.48	5792.52	≥0.5	PASS
11N20MIMO	Ant1	5825	15.76	5817.08	5832.84	≥0.5	PASS
	Ant2	5825	16.28	5816.80	5833.08	≥0.5	PASS
	Ant1	5720	16.04	5712.12	5728.16	---	---
	Ant2	5720	16.92	5711.88	5728.80	---	---
	Ant1	5720 UNII-2C	12.88	5712.12	5725	---	---
	Ant2	5720 UNII-2C	13.12	5711.88	5725	---	---
	Ant1	5720 UNII-3	3.16	5725	5728.16	≥0.5	PASS
	Ant2	5720 UNII-3	3.8	5725	5728.80	≥0.5	PASS
	Ant1	5745	16.92	5736.88	5753.80	≥0.5	PASS
	Ant2	5745	17.16	5736.28	5753.44	≥0.5	PASS
11N40MIMO	Ant1	5785	16.16	5777.40	5793.56	≥0.5	PASS
	Ant2	5785	16.28	5776.92	5793.20	≥0.5	PASS
	Ant1	5825	15.08	5817.52	5832.60	≥0.5	PASS
	Ant2	5825	16.32	5816.88	5833.20	≥0.5	PASS
	Ant1	5710	35.12	5692.48	5727.60	---	---
	Ant2	5710	35.12	5692.48	5727.60	---	---
	Ant1	5710 UNII-2C	32.52	5692.48	5725	---	---
	Ant2	5710 UNII-2C	32.52	5692.48	5725	---	---
	Ant1	5710 UNII-3	2.6	5725	5727.60	≥0.5	PASS
	Ant2	5710 UNII-3	2.6	5725	5727.60	≥0.5	PASS
11AC80MIMO	Ant1	5755	35.12	5737.48	5772.60	≥0.5	PASS
	Ant2	5755	35.04	5737.56	5772.60	≥0.5	PASS
	Ant1	5795	35.12	5777.48	5812.60	≥0.5	PASS
	Ant2	5795	35.04	5777.56	5812.60	≥0.5	PASS
	Ant1	5690	75.20	5652.40	5727.60	---	---
	Ant2	5690	75.20	5652.40	5727.60	---	---
	Ant1	5690 UNII-2C	72.6	5652.40	5725	---	---
	Ant2	5690 UNII-2C	72.6	5652.40	5725	---	---
	Ant1	5690 UNII-3	2.6	5725	5727.60	≥0.5	PASS
	Ant2	5690 UNII-3	2.6	5725	5727.60	≥0.5	PASS
11AC80MIMO	Ant1	5775	75.20	5737.40	5812.60	≥0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	≥0.5	PASS

11.3.2. Test Graphs



Note:

1. Only the worst data plots were reported to show setting parameter compliance with testing method/procedure.
2. For all modes, RBW setting to 100kHz is used on 6dB bandwidth measurement.

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	15.06	≤23.98	---	18.53	≤22.34	PASS
	Ant2	5180	15.67	≤23.98	---	19.33	≤22.34	PASS
	Ant1	5200	15.00	≤23.98	---	18.47	≤22.36	PASS
	Ant2	5200	15.54	≤23.98	---	19.20	≤22.35	PASS
	Ant1	5240	14.90	≤23.98	---	18.37	≤22.35	PASS
	Ant2	5240	15.25	≤23.98	---	18.91	≤22.34	PASS
	Ant1	5260	15.02	≤23.98	≤23.36	18.49	≤29.36	PASS
	Ant2	5260	15.14	≤23.98	≤23.36	18.80	≤29.36	PASS
	Ant1	5280	15.22	≤23.98	≤23.33	18.69	≤29.33	PASS
	Ant2	5280	15.37	≤23.91	≤23.35	19.03	≤29.35	PASS
	Ant1	5320	15.32	≤23.98	≤23.35	18.79	≤29.35	PASS
	Ant2	5320	15.57	≤23.95	≤23.35	19.23	≤29.35	PASS
	Ant1	5500	15.39	≤23.98	≤23.33	18.86	≤29.33	PASS
	Ant2	5500	15.12	≤23.98	≤23.32	18.78	≤29.32	PASS
	Ant1	5580	15.59	≤23.98	≤23.35	19.06	≤29.35	PASS
	Ant2	5580	15.31	≤23.98	≤23.34	18.97	≤29.34	PASS
	Ant1	5700	15.01	≤23.98	≤23.36	18.48	≤29.36	PASS
	Ant2	5700	15.18	≤23.98	≤23.35	18.84	≤29.35	PASS
	Ant1	5720 UNII-2C	14.51	≤22.78	≤22.33	17.98	≤28.33	PASS
	Ant2	5720 UNII-2C	14.47	≤22.82	≤22.33	18.13	≤28.33	PASS
	Ant1	5720 UNII-3	6.77	≤30.00	≤30.00	10.24	---	PASS
	Ant2	5720 UNII-3	6.67	≤30.00	≤30.00	10.33	---	PASS
	Ant1	5745	15.43	≤30.00	≤30.00	18.90	---	PASS
	Ant2	5745	15.48	≤30.00	≤30.00	19.14	---	PASS
	Ant1	5785	14.86	≤30.00	≤30.00	18.33	---	PASS
	Ant2	5785	15.57	≤30.00	≤30.00	19.23	---	PASS
	Ant1	5825	14.72	≤30.00	≤30.00	18.19	---	PASS
	Ant2	5825	15.43	≤30.00	≤30.00	19.09	---	PASS
11N20MIMO	Ant1	5180	9.15	≤23.98	---	12.62	≤22.55	PASS
	Ant2	5180	9.49	≤23.98	---	13.15	≤22.50	PASS
	total	5180	12.33	≤23.98	---	15.99	≤22.50	PASS
	Ant1	5200	9.02	≤23.98	---	12.49	≤22.56	PASS
	Ant2	5200	9.68	≤23.98	---	13.34	≤22.51	PASS
	total	5200	12.37	≤23.98	---	16.03	≤22.51	PASS
	Ant1	5240	9.02	≤23.98	---	12.49	≤22.55	PASS
	Ant2	5240	9.21	≤23.98	---	12.87	≤22.51	PASS
	total	5240	12.13	≤23.98	---	15.79	≤22.51	PASS
	Ant1	5260	13.13	≤23.98	≤23.56	16.60	≤29.56	PASS
	Ant2	5260	14.14	≤23.98	≤23.51	17.80	≤29.51	PASS
	total	5260	16.67	≤23.98	≤23.51	20.33	≤29.51	PASS
	Ant1	5280	13.42	≤23.98	≤23.56	16.89	≤29.56	PASS
	Ant2	5280	14.37	≤23.98	≤23.50	18.03	≤29.50	PASS
	total	5280	16.93	≤23.98	≤23.50	20.59	≤29.50	PASS
	Ant1	5320	13.69	≤23.98	≤23.56	17.31	≤29.56	PASS
	Ant2	5320	14.81	≤23.98	≤23.50	18.47	≤29.50	PASS
	total	5320	17.30	≤23.98	≤23.50	20.96	≤29.50	PASS
	Ant1	5500	13.64	≤23.98	≤23.56	17.11	≤29.56	PASS
	Ant2	5500	14.20	≤23.98	≤23.50	17.86	≤29.50	PASS
	total	5500	16.94	≤23.98	≤23.50	20.60	≤29.50	PASS
	Ant1	5580	13.74	≤23.98	≤23.55	17.21	≤29.55	PASS
	Ant2	5580	14.41	≤23.98	≤23.49	18.07	≤29.49	PASS
	total	5580	17.10	≤23.98	≤23.49	20.76	≤29.49	PASS
	Ant1	5700	13.32	≤23.98	≤23.56	16.79	≤29.56	PASS
	Ant2	5700	14.26	≤23.98	≤23.50	17.92	≤29.50	PASS

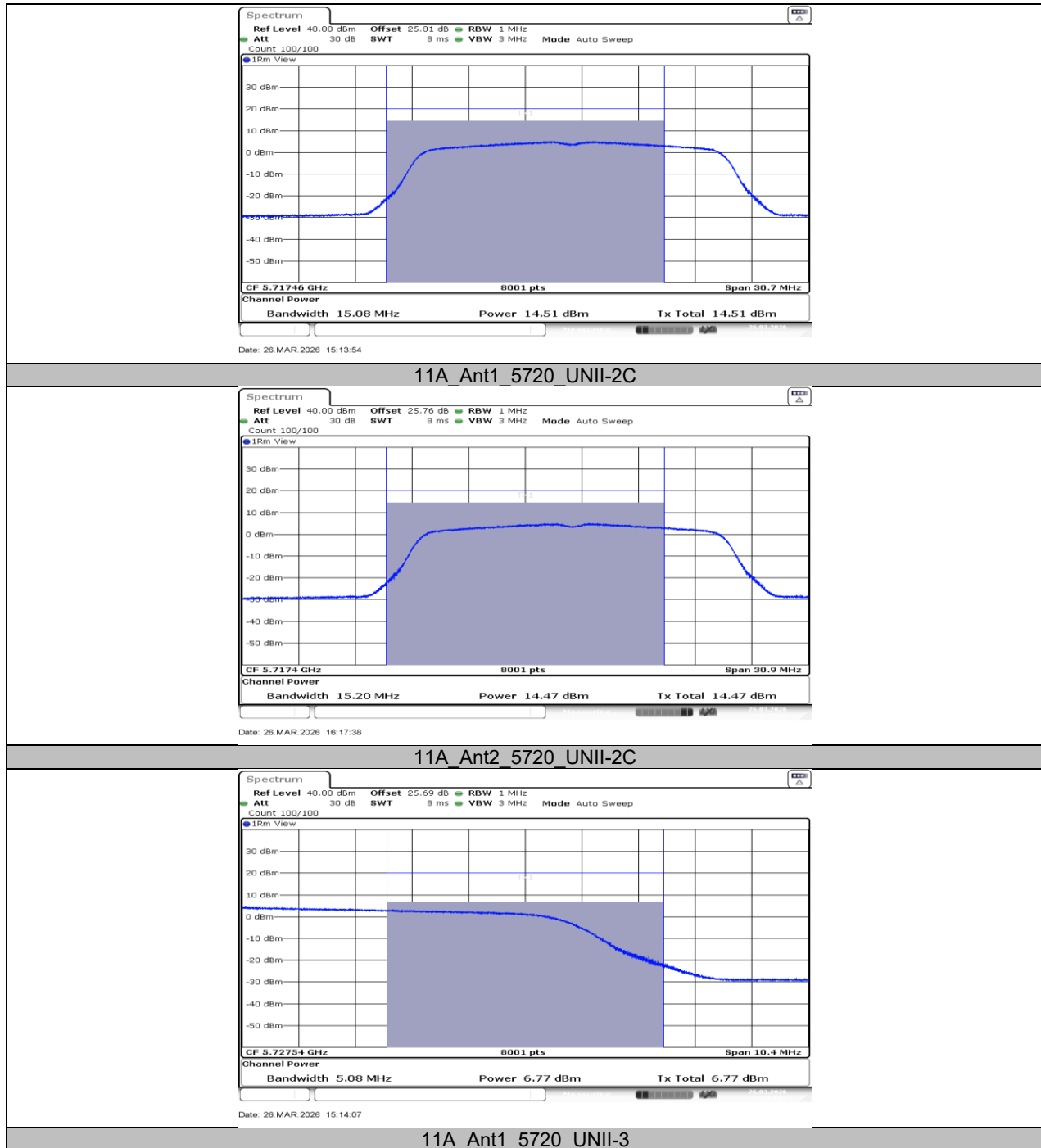
	total	5700	16.83	≤23.98	≤23.50	20.49	≤29.50	PASS
	Ant1	5720 UNII-2C	12.58	≤22.82	≤22.45	16.05	≤28.45	PASS
	Ant2	5720 UNII-2C	13.44	≤22.73	≤22.41	17.10	≤28.41	PASS
	total	5720 UNII-2C	16.04	≤22.73	≤22.41	19.70	≤28.41	PASS
	Ant1	5720 UNII-3	5.45	≤30.00	≤30.00	8.92	---	PASS
	Ant2	5720 UNII-3	6.19	≤30.00	≤30.00	9.85	---	PASS
	total	5720 UNII-3	8.85	≤30.00	≤30.00	12.51	---	PASS
	Ant1	5745	13.79	≤30.00	≤30.00	17.26	---	PASS
	Ant2	5745	14.62	≤30.00	≤30.00	18.28	---	PASS
	total	5745	17.24	≤30.00	≤30.00	20.90	---	PASS
	Ant1	5785	12.98	≤30.00	≤30.00	16.45	---	PASS
	Ant2	5785	14.67	≤30.00	≤30.00	18.33	---	PASS
	total	5785	16.92	≤30.00	≤30.00	20.58	---	PASS
	Ant1	5825	12.90	≤30.00	≤30.00	16.37	---	PASS
	Ant2	5825	14.56	≤30.00	≤30.00	18.22	---	PASS
	total	5825	16.82	≤30.00	≤30.00	20.48	---	PASS
11N40MIMO	Ant1	5190	12.42	≤23.98	---	15.89	≤23.00	PASS
	Ant2	5190	13.06	≤23.98	---	16.72	≤23.00	PASS
	total	5190	15.76	≤23.98	---	19.42	≤23.00	PASS
	Ant1	5230	12.56	≤23.98	---	16.03	≤23.00	PASS
	Ant2	5230	12.91	≤23.98	---	16.57	≤23.00	PASS
	total	5230	15.75	≤23.98	---	19.41	≤23.00	PASS
	Ant1	5270	13.37	≤23.98	≤23.98	16.84	≤30.00	PASS
	Ant2	5270	14.32	≤23.98	≤23.98	17.98	≤30.00	PASS
	total	5270	16.88	≤23.98	≤23.98	20.54	≤30.00	PASS
	Ant1	5310	13.50	≤23.98	≤23.98	16.97	≤30.00	PASS
	Ant2	5310	14.78	≤23.98	≤23.98	18.44	≤30.00	PASS
	total	5310	17.20	≤23.98	≤23.98	20.86	≤30.00	PASS
	Ant1	5510	13.67	≤23.98	≤23.98	17.14	≤30.00	PASS
	Ant2	5510	14.33	≤23.98	≤23.98	17.99	≤30.00	PASS
	total	5510	17.02	≤23.98	≤23.98	20.68	≤30.00	PASS
	Ant1	5550	13.76	≤23.98	≤23.98	17.23	≤30.00	PASS
	Ant2	5550	14.69	≤23.98	≤23.98	18.35	≤30.00	PASS
	total	5550	17.26	≤23.98	≤23.98	20.92	≤30.00	PASS
	Ant1	5670	13.32	≤23.98	≤23.98	16.79	≤30.00	PASS
	Ant2	5670	14.60	≤23.98	≤23.98	18.26	≤30.00	PASS
	total	5670	17.02	≤23.98	≤23.98	20.68	≤30.00	PASS
	Ant1	5710 UNII-2C	13.01	≤23.98	≤23.98	16.48	≤30.00	PASS
	Ant2	5710 UNII-2C	14.10	≤23.98	≤23.98	17.76	≤30.00	PASS
	total	5710 UNII-2C	16.60	≤23.98	≤23.98	20.26	≤30.00	PASS
	Ant1	5710 UNII-3	0.74	≤30.00	≤30.00	4.21	---	PASS
	Ant2	5710 UNII-3	1.61	≤30.00	≤30.00	5.27	---	PASS
	total	5710 UNII-3	4.21	≤30.00	≤30.00	7.87	---	PASS
	Ant1	5755	13.51	≤30.00	≤30.00	16.98	---	PASS
	Ant2	5755	14.78	≤30.00	≤30.00	18.44	---	PASS
	total	5755	17.20	≤30.00	≤30.00	20.86	---	PASS
	Ant1	5795	13.10	≤30.00	≤30.00	16.57	---	PASS
	Ant2	5795	14.85	≤30.00	≤30.00	18.51	---	PASS
	total	5795	17.07	≤30.00	≤30.00	20.73	---	PASS
11AC80MIMO	Ant1	5210	12.18	≤23.98	---	15.65	≤23.00	PASS
	Ant2	5210	13.63	≤23.98	---	17.29	≤23.00	PASS
	total	5210	15.98	≤23.98	---	19.64	≤23.00	PASS
	Ant1	5290	12.56	≤23.98	≤23.98	16.03	≤30.00	PASS
	Ant2	5290	13.31	≤23.98	≤23.98	16.97	≤30.00	PASS
	total	5290	15.96	≤23.98	≤23.98	19.62	≤30.00	PASS
	Ant1	5530	12.55	≤23.98	≤23.98	16.02	≤30.00	PASS
	Ant2	5530	13.11	≤23.98	≤23.98	16.77	≤30.00	PASS
	total	5530	15.85	≤23.98	≤23.98	19.51	≤30.00	PASS
	Ant1	5610	12.61	≤23.98	≤23.98	16.08	≤30.00	PASS
	Ant2	5610	13.05	≤23.98	≤23.98	16.71	≤30.00	PASS

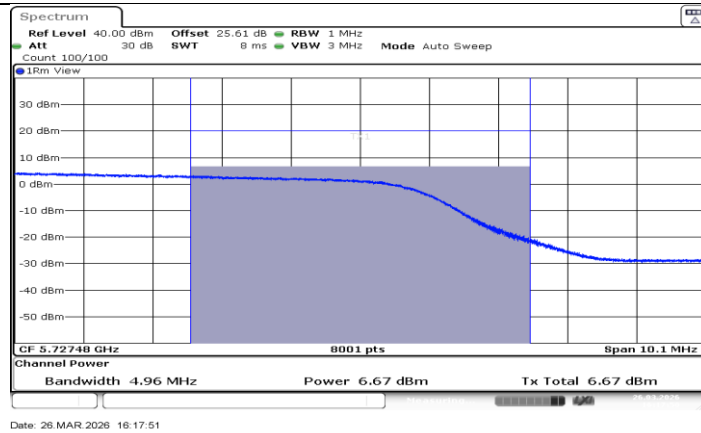
	total	5610	15.85	≤23.98	≤23.98	19.51	≤30.00	PASS
	Ant1	5690 UNII-2C	11.89	≤23.98	≤23.98	15.36	≤30.00	PASS
	Ant2	5690 UNII-2C	12.88	≤23.98	≤23.98	16.54	≤30.00	PASS
	total	5690 UNII-2C	15.42	≤23.98	≤23.98	19.08	≤30.00	PASS
	Ant1	5690 UNII-3	-3.79	≤30.00	≤30.00	-0.32	---	PASS
	Ant2	5690 UNII-3	-3.02	≤30.00	≤30.00	0.64	---	PASS
	total	5690 UNII-3	-0.38	≤30.00	≤30.00	3.28	---	PASS
	Ant1	5775	11.83	≤30.00	≤30.00	15.30	---	PASS
	Ant2	5775	13.28	≤30.00	≤30.00	16.94	---	PASS
	total	5775	15.63	≤30.00	≤30.00	19.29	---	PASS

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

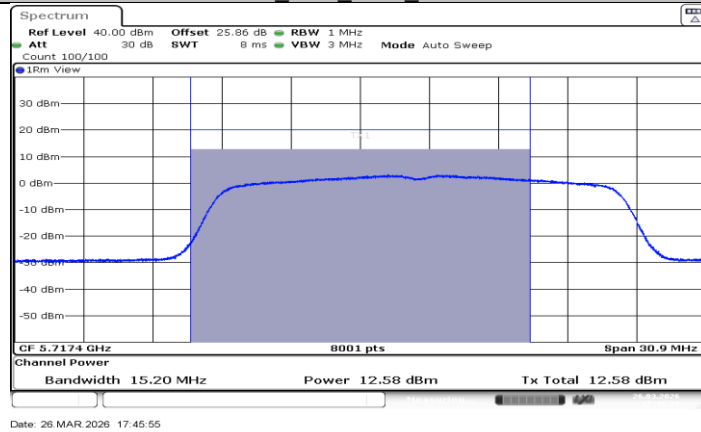
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.4.2. Test Graphs

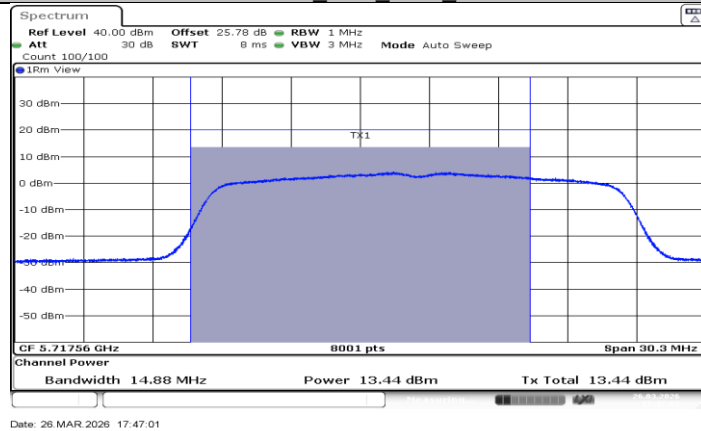




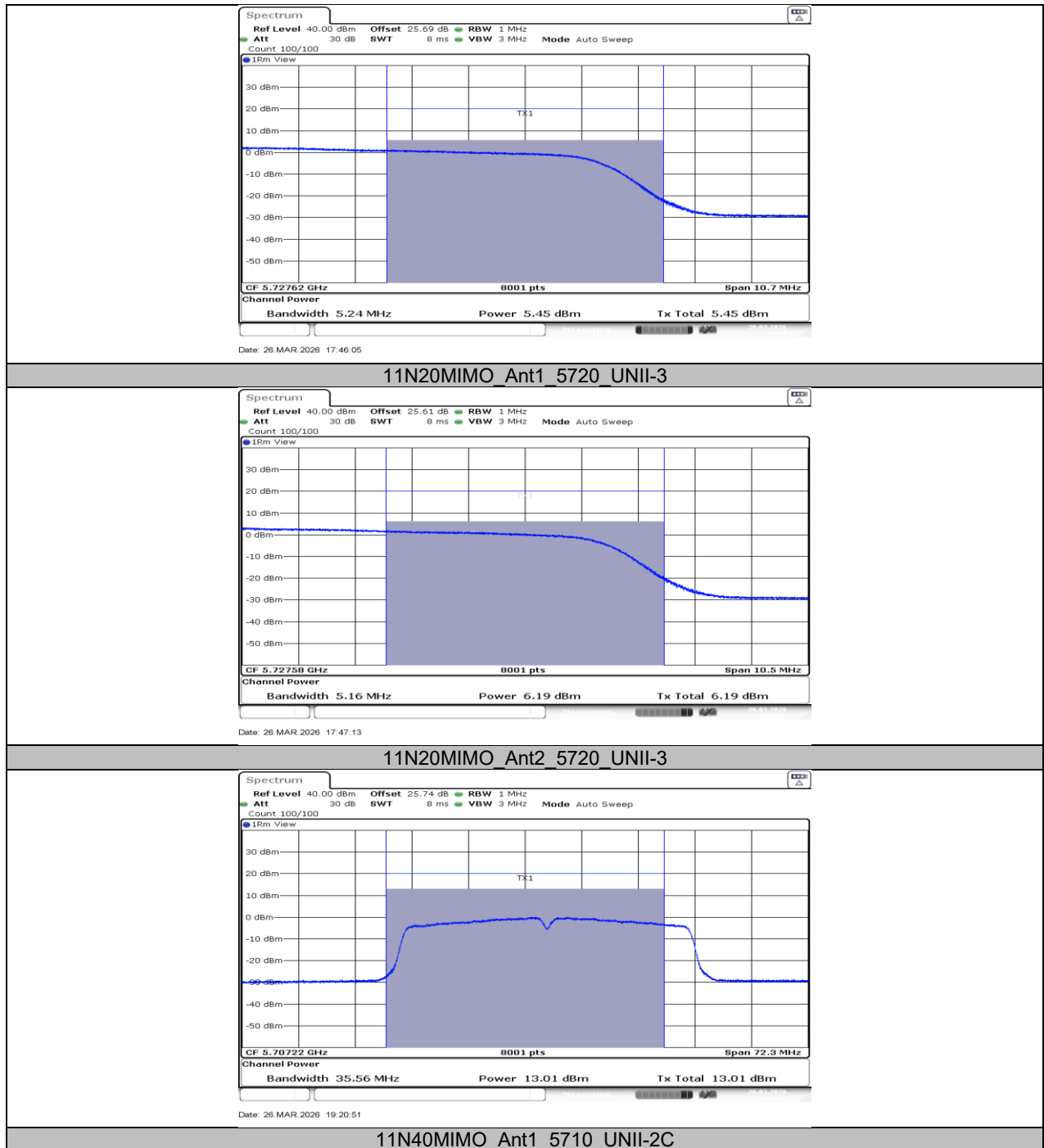
11A_Ant2_5720_UNII-3

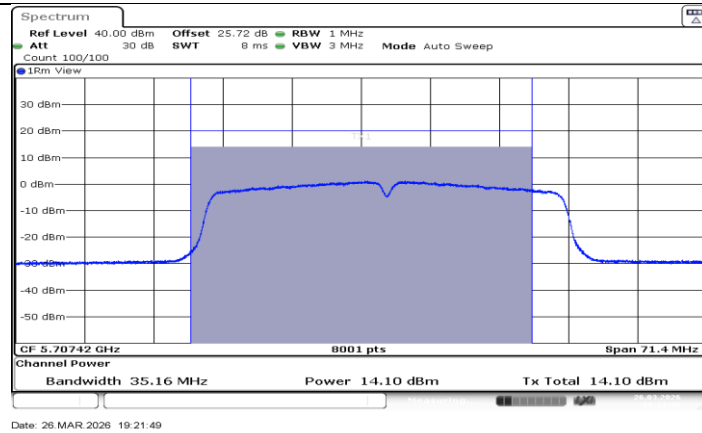


11N20MIMO_Ant1_5720_UNII-2C

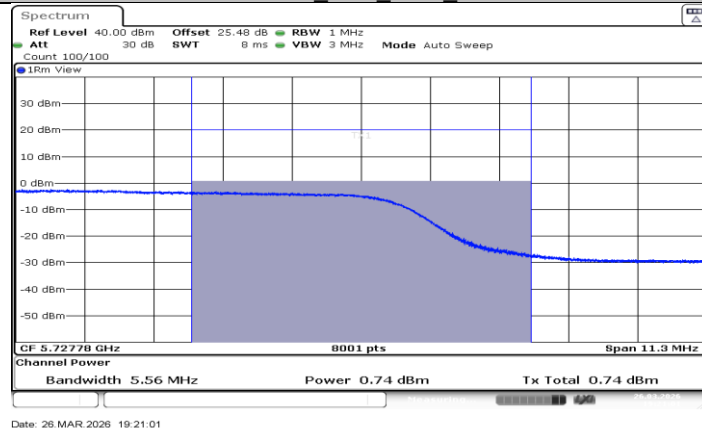


11N20MIMO_Ant2_5720_UNII-2C

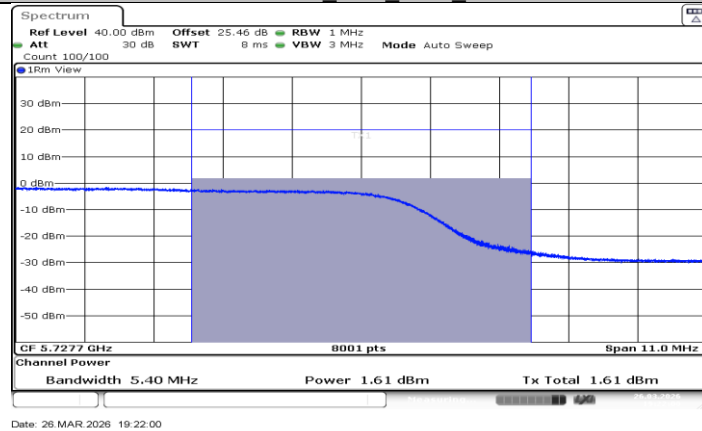




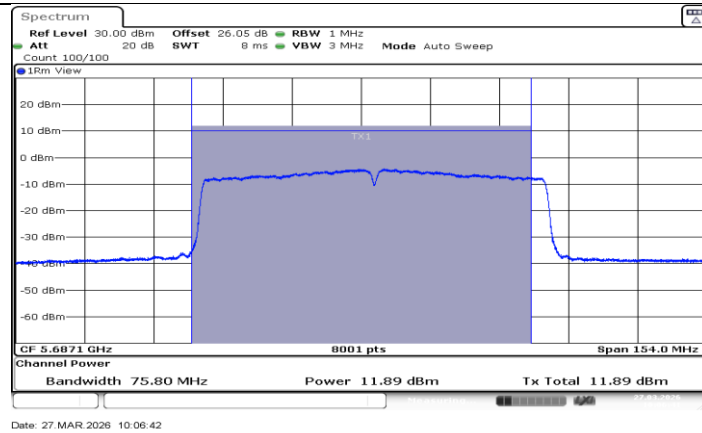
11N40MIMO_Ant2_5710_UNII-2C



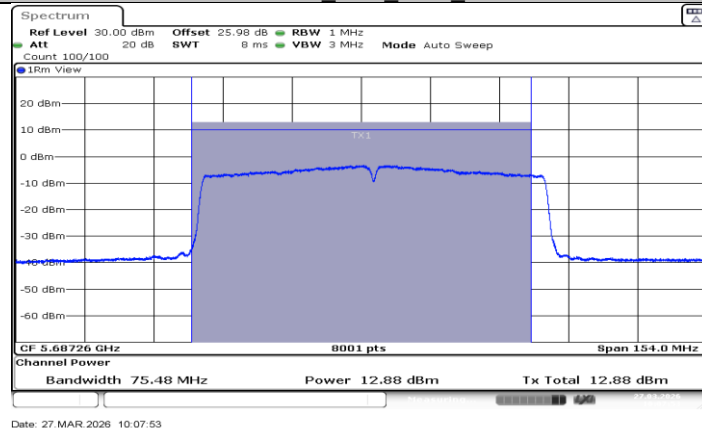
11N40MIMO_Ant1_5710_UNII-3



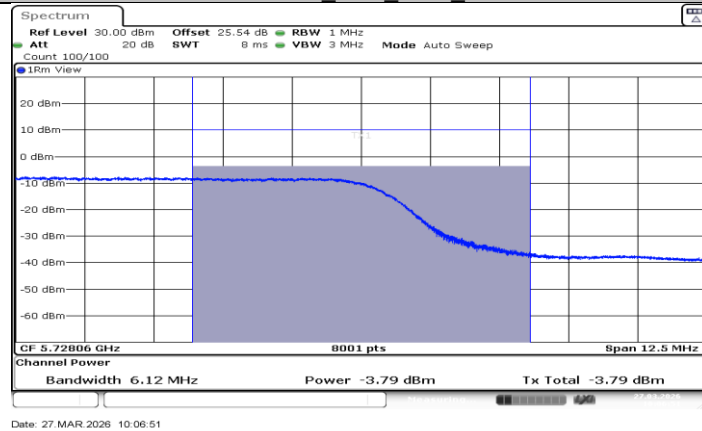
11N40MIMO_Ant2_5710_UNII-3



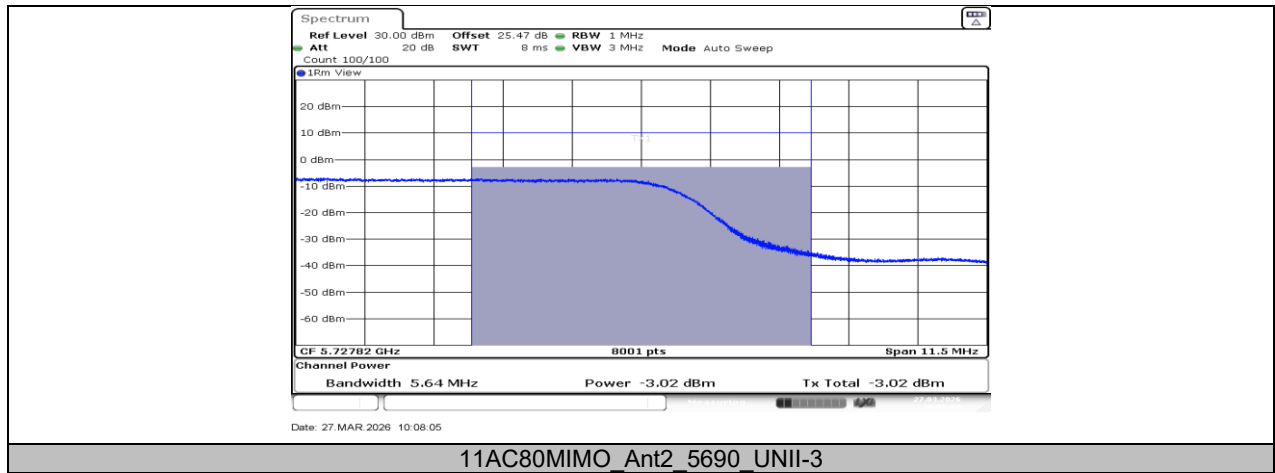
11AC80MIMO_Ant1_5690_UNII-2C



11AC80MIMO_Ant2_5690_UNII-2C



11AC80MIMO_Ant1_5690_UNII-3



11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.5.1. Test Result

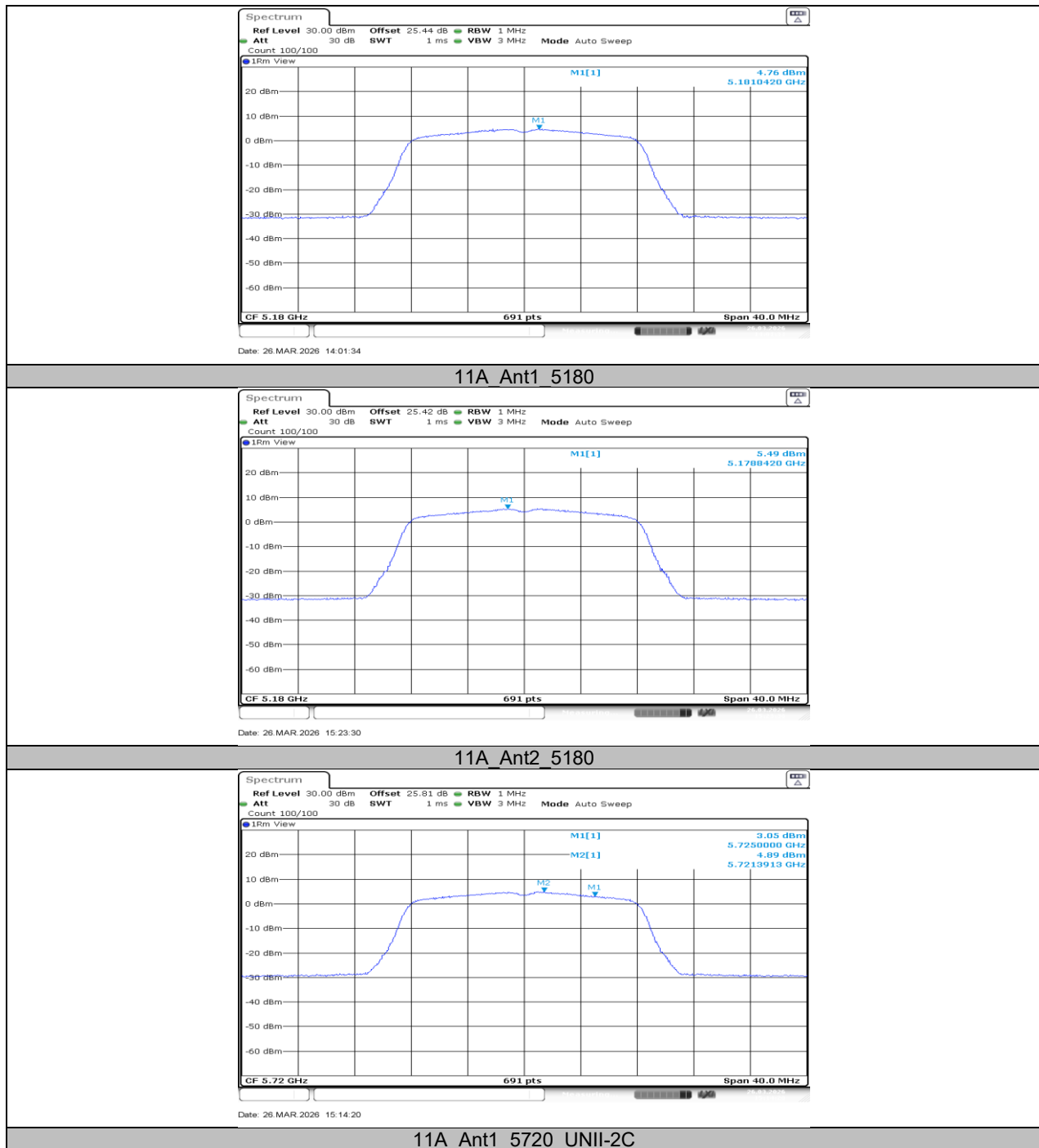
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.76	≤11.00	8.23	≤10.00	PASS
	Ant2	5180	5.49	≤11.00	9.15	≤10.00	PASS
	Ant1	5200	4.68	≤11.00	8.15	≤10.00	PASS
	Ant2	5200	5.21	≤11.00	8.87	≤10.00	PASS
	Ant1	5240	4.67	≤11.00	8.14	≤10.00	PASS
	Ant2	5240	4.86	≤11.00	8.52	≤10.00	PASS
	Ant1	5260	4.72	≤11.00	8.19	---	PASS
	Ant2	5260	4.75	≤11.00	8.41	---	PASS
	Ant1	5280	4.98	≤11.00	8.45	---	PASS
	Ant2	5280	4.98	≤11.00	8.64	---	PASS
	Ant1	5320	5.09	≤11.00	8.56	---	PASS
	Ant2	5320	5.37	≤11.00	9.03	---	PASS
	Ant1	5500	5.03	≤11.00	8.50	---	PASS
	Ant2	5500	4.81	≤11.00	8.47	---	PASS
	Ant1	5580	5.22	≤11.00	8.69	---	PASS
	Ant2	5580	4.98	≤11.00	8.64	---	PASS
	Ant1	5700	4.77	≤11.00	8.24	---	PASS
	Ant2	5700	5.04	≤11.00	8.70	---	PASS
	Ant1	5720 UNII-2C	4.89	≤11.00	8.36	---	PASS
	Ant2	5720 UNII-2C	4.82	≤11.00	8.48	---	PASS
	Ant1	5720 UNII-3	0.21	≤30.00	3.68	---	PASS
	Ant2	5720 UNII-3	0.11	≤30.00	3.77	---	PASS
	Ant1	5745	2.29	≤30.00	5.76	---	PASS
	Ant2	5745	2.47	≤30.00	6.13	---	PASS
	Ant1	5785	1.73	≤30.00	5.20	---	PASS
	Ant2	5785	2.40	≤30.00	6.06	---	PASS
	Ant1	5825	1.55	≤30.00	5.02	---	PASS
	Ant2	5825	2.21	≤30.00	5.87	---	PASS
11N20MIMO	Ant1	5180	-1.14	≤11.00	2.33	≤10.00	PASS
	Ant2	5180	-0.74	≤11.00	2.92	≤10.00	PASS
	total	5180	2.07	≤11.00	8.74	≤10.00	PASS
	Ant1	5200	-1.22	≤11.00	2.25	≤10.00	PASS
	Ant2	5200	-0.62	≤11.00	3.04	≤10.00	PASS
	total	5200	2.10	≤11.00	8.77	≤10.00	PASS
	Ant1	5240	-1.18	≤11.00	2.29	≤10.00	PASS
	Ant2	5240	-1.03	≤11.00	2.63	≤10.00	PASS
	total	5240	1.91	≤11.00	8.58	≤10.00	PASS
	Ant1	5260	2.72	≤11.00	6.19	---	PASS
	Ant2	5260	3.56	≤11.00	7.22	---	PASS
	total	5260	6.17	≤10.33	12.84	---	PASS
	Ant1	5280	2.91	≤11.00	6.38	---	PASS
	Ant2	5280	3.87	≤11.00	7.53	---	PASS
	total	5280	6.43	≤10.33	13.10	---	PASS
	Ant1	5320	3.08	≤11.00	6.55	---	PASS
	Ant2	5320	4.00	≤11.00	7.66	---	PASS
	total	5320	6.57	≤10.33	13.24	---	PASS
	Ant1	5500	3.08	≤11.00	6.55	---	PASS
	Ant2	5500	3.76	≤11.00	7.42	---	PASS
	total	5500	6.44	≤10.33	13.11	---	PASS
	Ant1	5580	3.27	≤11.00	6.74	---	PASS
	Ant2	5580	4.05	≤11.00	7.71	---	PASS
	total	5580	6.69	≤10.33	13.36	---	PASS
	Ant1	5700	2.78	≤11.00	6.25	---	PASS
	Ant2	5700	3.89	≤11.00	7.55	---	PASS
	total	5700	6.38	≤10.33	13.05	---	PASS

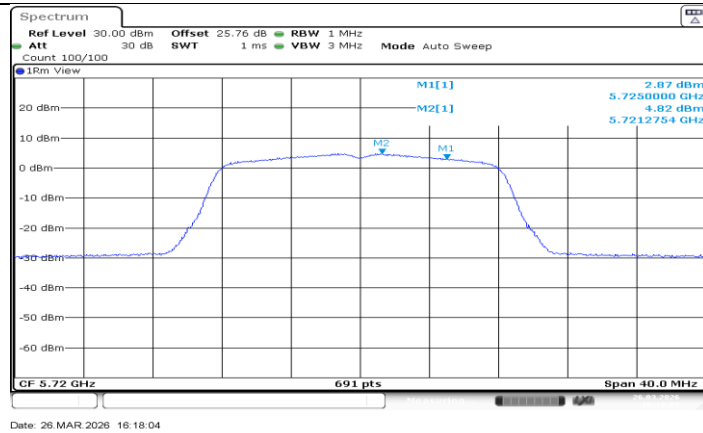
	Ant1	5720_UNII-2C	2.82	≤11.00	6.29	---	PASS
	Ant2	5720_UNII-2C	3.81	≤11.00	7.47	---	PASS
	total	5720_UNII-2C	6.35	≤10.33	13.02	---	PASS
	Ant1	5720_UNII-3	-1.70	≤30.00	1.77	---	PASS
	Ant2	5720_UNII-3	-1.28	≤30.00	2.38	---	PASS
	total	5720_UNII-3	1.53	≤29.33	8.20	---	PASS
	Ant1	5745	0.30	≤30.00	3.77	---	PASS
	Ant2	5745	1.36	≤30.00	5.02	---	PASS
	total	5745	3.87	≤29.33	10.54	---	PASS
	Ant1	5785	-0.45	≤30.00	3.02	---	PASS
	Ant2	5785	1.33	≤30.00	4.99	---	PASS
	total	5785	3.54	≤29.33	10.21	---	PASS
	Ant1	5825	-0.28	≤30.00	3.19	---	PASS
	Ant2	5825	1.46	≤30.00	5.12	---	PASS
	total	5825	3.69	≤29.33	10.36	---	PASS
11N40MIMO	Ant1	5190	-1.10	≤11.00	2.37	≤10.00	PASS
	Ant2	5190	-0.37	≤11.00	3.29	≤10.00	PASS
	total	5190	2.29	≤11.00	8.96	≤10.00	PASS
	Ant1	5230	-0.81	≤11.00	2.66	≤10.00	PASS
	Ant2	5230	-0.57	≤11.00	3.09	≤10.00	PASS
	total	5230	2.32	≤11.00	8.99	≤10.00	PASS
	Ant1	5270	-0.26	≤11.00	3.21	---	PASS
	Ant2	5270	0.76	≤11.00	4.42	---	PASS
	total	5270	3.29	≤10.33	9.96	---	PASS
	Ant1	5310	-0.02	≤11.00	3.45	---	PASS
	Ant2	5310	1.19	≤11.00	4.85	---	PASS
	total	5310	3.64	≤10.33	10.31	---	PASS
	Ant1	5510	0.11	≤11.00	3.58	---	PASS
	Ant2	5510	1.05	≤11.00	4.71	---	PASS
	total	5510	3.62	≤10.33	10.29	---	PASS
	Ant1	5550	0.30	≤11.00	3.77	---	PASS
	Ant2	5550	1.22	≤11.00	4.88	---	PASS
	total	5550	3.79	≤10.33	10.46	---	PASS
	Ant1	5670	-0.43	≤11.00	3.04	---	PASS
	Ant2	5670	1.30	≤11.00	4.96	---	PASS
	total	5670	3.53	≤10.33	10.20	---	PASS
	Ant1	5710_UNII-2C	-0.28	≤11.00	3.19	---	PASS
	Ant2	5710_UNII-2C	0.86	≤11.00	4.52	---	PASS
	total	5710_UNII-2C	3.34	≤10.33	10.01	---	PASS
	Ant1	5710_UNII-3	-6.19	≤30.00	-2.72	---	PASS
	Ant2	5710_UNII-3	-5.52	≤30.00	-1.86	---	PASS
	total	5710_UNII-3	-2.83	≤29.33	3.84	---	PASS
	Ant1	5755	-2.79	≤30.00	0.68	---	PASS
	Ant2	5755	-1.37	≤30.00	2.29	---	PASS
	total	5755	0.99	≤29.33	7.66	---	PASS
	Ant1	5795	-3.16	≤30.00	0.31	---	PASS
	Ant2	5795	-1.65	≤30.00	2.01	---	PASS
	total	5795	0.67	≤29.33	7.34	---	PASS
11AC80MIMO	Ant1	5210	-4.24	≤11.00	-0.77	≤10.00	PASS
	Ant2	5210	-2.92	≤11.00	0.74	≤10.00	PASS
	total	5210	-0.52	≤11.00	6.15	≤10.00	PASS
	Ant1	5290	-3.92	≤11.00	-0.45	---	PASS
	Ant2	5290	-3.07	≤11.00	0.59	---	PASS
	total	5290	-0.46	≤10.33	6.21	---	PASS
	Ant1	5530	-3.91	≤11.00	-0.44	---	PASS
	Ant2	5530	-3.32	≤11.00	0.34	---	PASS
	total	5530	-0.59	≤10.33	6.08	---	PASS
	Ant1	5610	-3.95	≤11.00	-0.48	---	PASS
	Ant2	5610	-3.52	≤11.00	0.14	---	PASS
	total	5610	-0.72	≤10.33	5.95	---	PASS

	Ant1	5690 UNII-2C	-4.68	≤ 11.00	-1.21	---	PASS
	Ant2	5690 UNII-2C	-3.32	≤ 11.00	0.34	---	PASS
	total	5690 UNII-2C	-0.94	≤ 10.33	5.73	---	PASS
	Ant1	5690 UNII-3	-10.54	≤ 30.00	-7.07	---	PASS
	Ant2	5690 UNII-3	-9.85	≤ 30.00	-6.19	---	PASS
	total	5690 UNII-3	-7.17	≤ 29.33	-0.50	---	PASS
	Ant1	5775	-7.22	≤ 30.00	-3.75	---	PASS
	Ant2	5775	-5.89	≤ 30.00	-2.23	---	PASS
	total	5775	-3.49	≤ 29.33	3.18	---	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





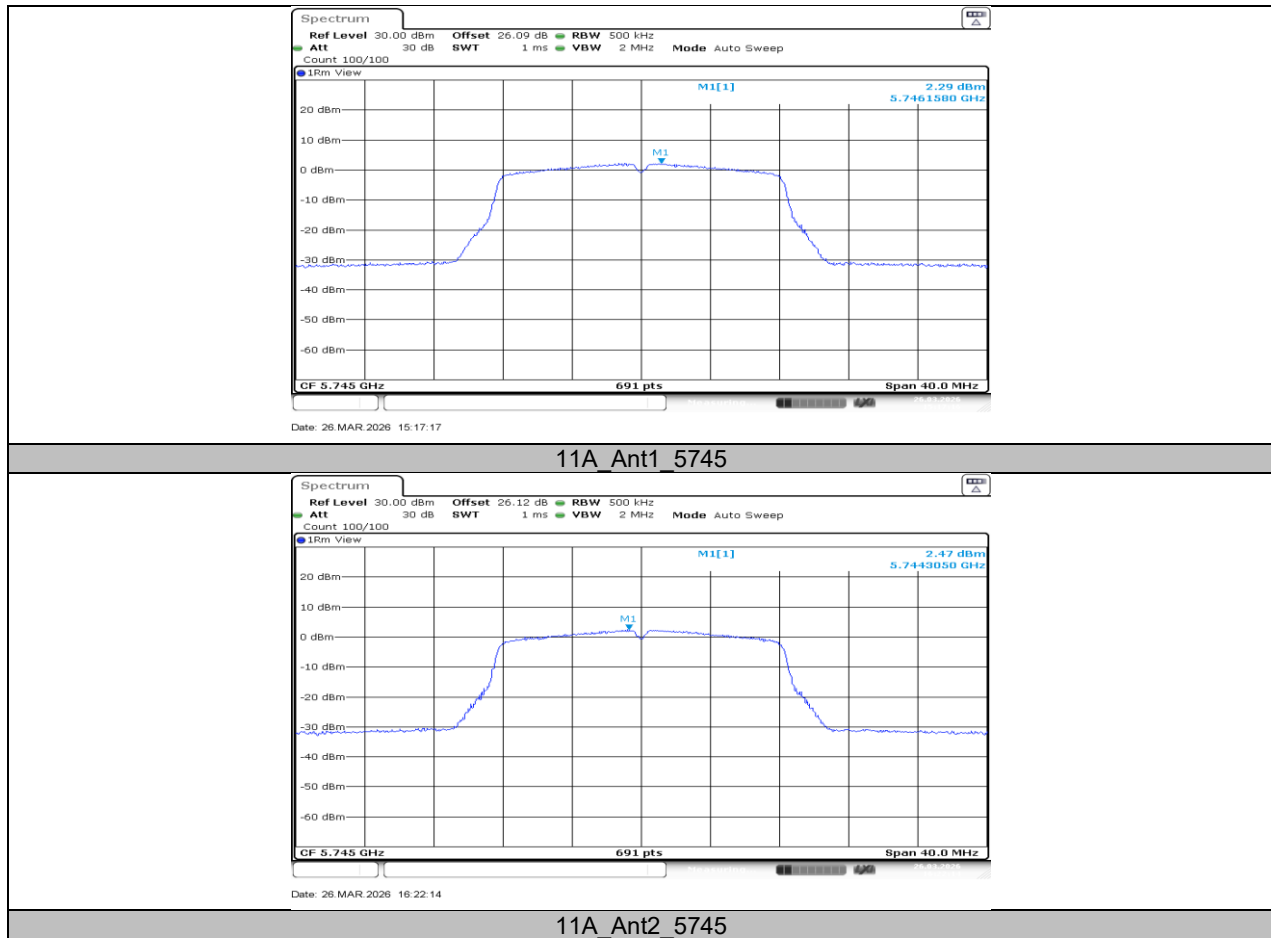
11A_Ant2_5720_UNII-2C



11A_Ant1_5720_UNII-3



11A_Ant2_5720_UNII-3



Note:

1. Only Low channel plot is reported to show setting parameter compliance with testing method/procedure.
2. For all modes, RBW setting to 1MHz is used on PSD measurement in UNII-1/UNII-2A/UNII-2C.
3. For all modes, RBW setting to 500kHz is used on PSD measurement in UNII-3.

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	5200.0177	3.40	5200.0176	3.39	5200.0165	3.18	5200.0041	0.79
TN	VN	5199.9939	-1.17	5199.9955	-0.87	5199.9853	-2.83	5199.9961	-0.75
TN	VH	5199.9994	-0.11	5200.0051	0.97	5199.9797	-3.91	5200.0156	3.00
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	5199.9966	-0.64	5199.9948	-1.01	5200.0186	3.58	5200.0032	0.62
60	VN	5199.9917	-1.59	5200.0120	2.31	5200.0068	1.31	5199.9996	-0.08
50	VN	5200.0217	4.18	5200.0076	1.46	5200.0134	2.58	5199.9912	-1.68
40	VN	5200.0099	1.90	5199.9972	-0.55	5199.9986	-0.27	5199.9781	-4.21
30	VN	5200.0122	2.34	5200.0138	2.66	5200.0130	2.49	5200.0182	3.50
20	VN	5199.9917	-1.60	5199.9848	-2.92	5200.0000	0.00	5199.9928	-1.38
10	VN	5200.0225	4.32	5199.9869	-2.52	5200.0176	3.38	5199.9902	-1.89
0	VN	5199.9921	-1.52	5199.9936	-1.24	5199.9803	-3.79	5199.9899	-1.94

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	1.38	1.42	0.9718	97.18	0.12	0.72	1
11N20MIMO	1.29	1.34	0.9627	96.27	0.17	0.78	1
11N40MIMO	0.65	0.69	0.9420	94.20	0.26	1.54	2
11AC80MIMO	0.32	0.36	0.8889	88.89	0.51	3.13	4

Note:

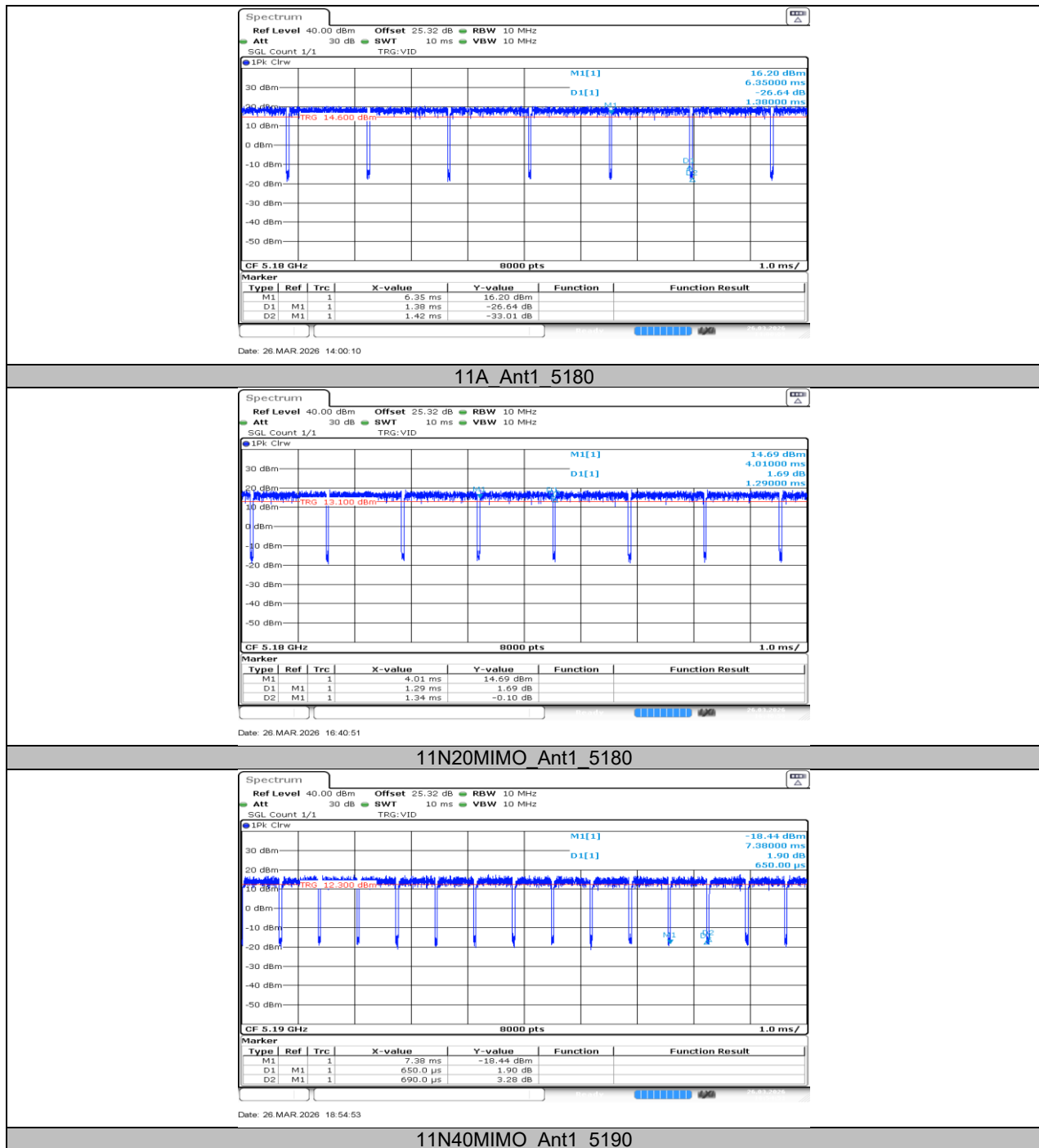
Duty Cycle Correction Factor= $10\log(1/x)$.

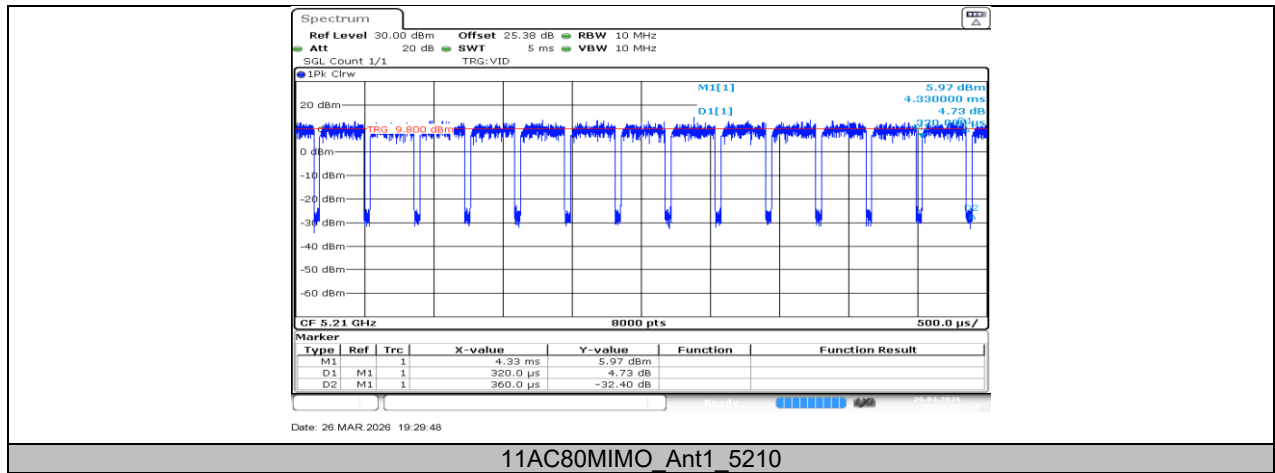
Where: x is Duty Cycle (Linear)

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



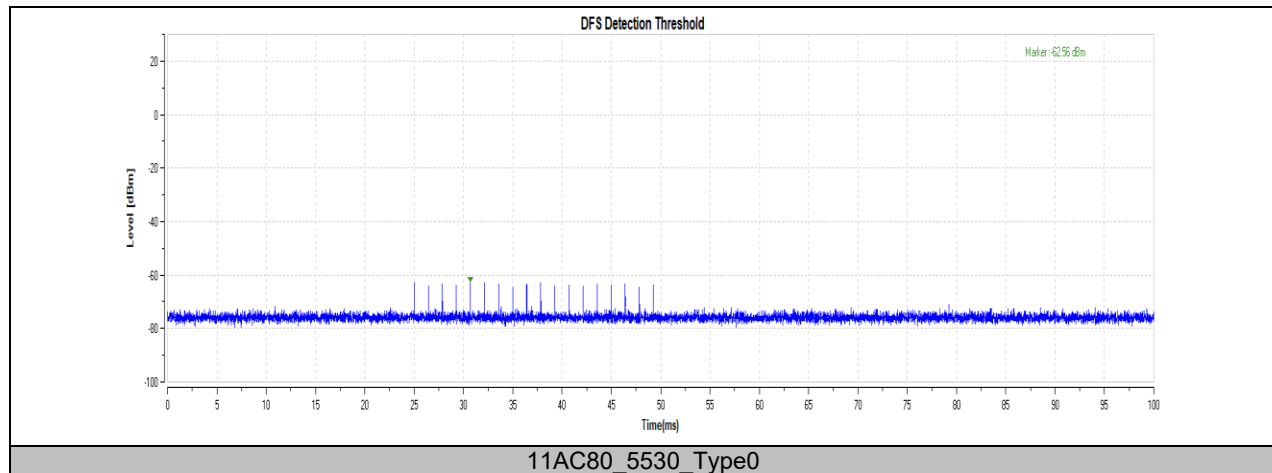


11.8. APPENDIX H: DFS DETECTION THRESHOLDS

11.8.1. Test Result

TestMode	Channel	Radar Type	Result	Verdict
11AC80	5530	Type0	-62.29	PASS

11.8.2. Test Graphs

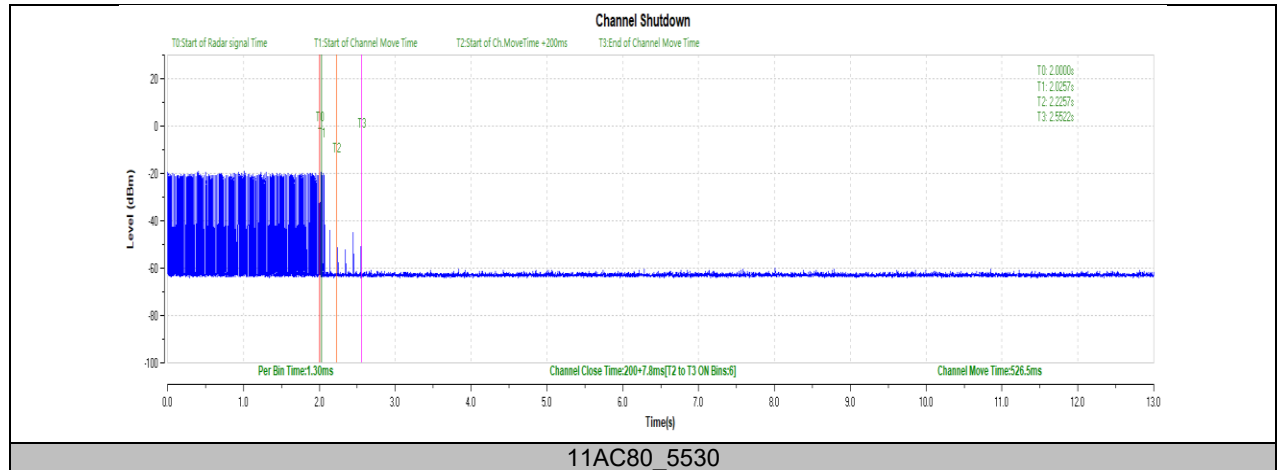


11.9. APPENDIX I: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.9.1. Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80	5530	200+7.8	200+60	513.5	10000	PASS

11.9.2. Test Graphs

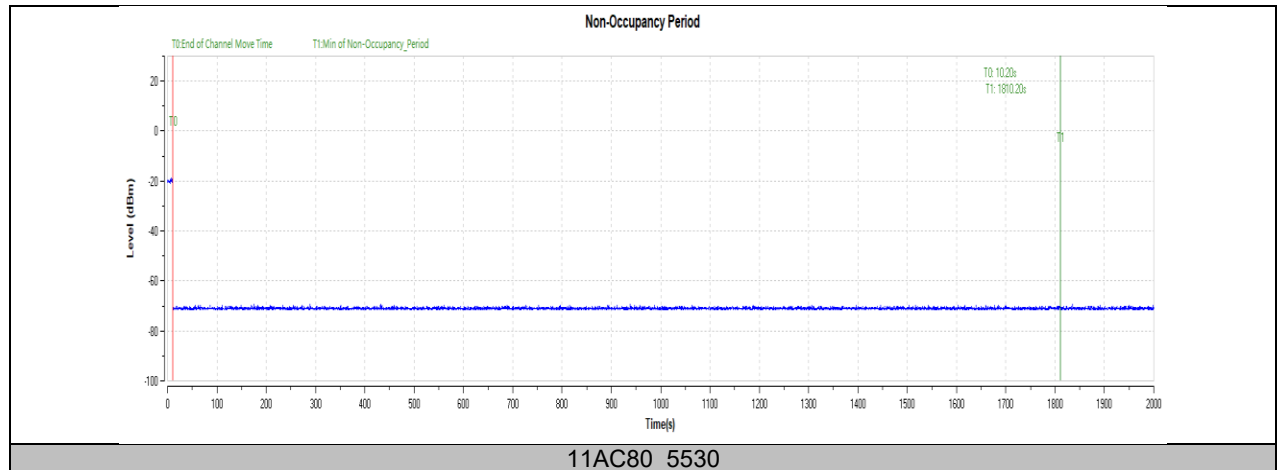


11.10. APPENDIX J: NON-OCCUPANCY PERIOD

Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC80	5530	see test graph	≥1800	PASS

11.10.1. Test Graphs



END OF REPORT