

11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

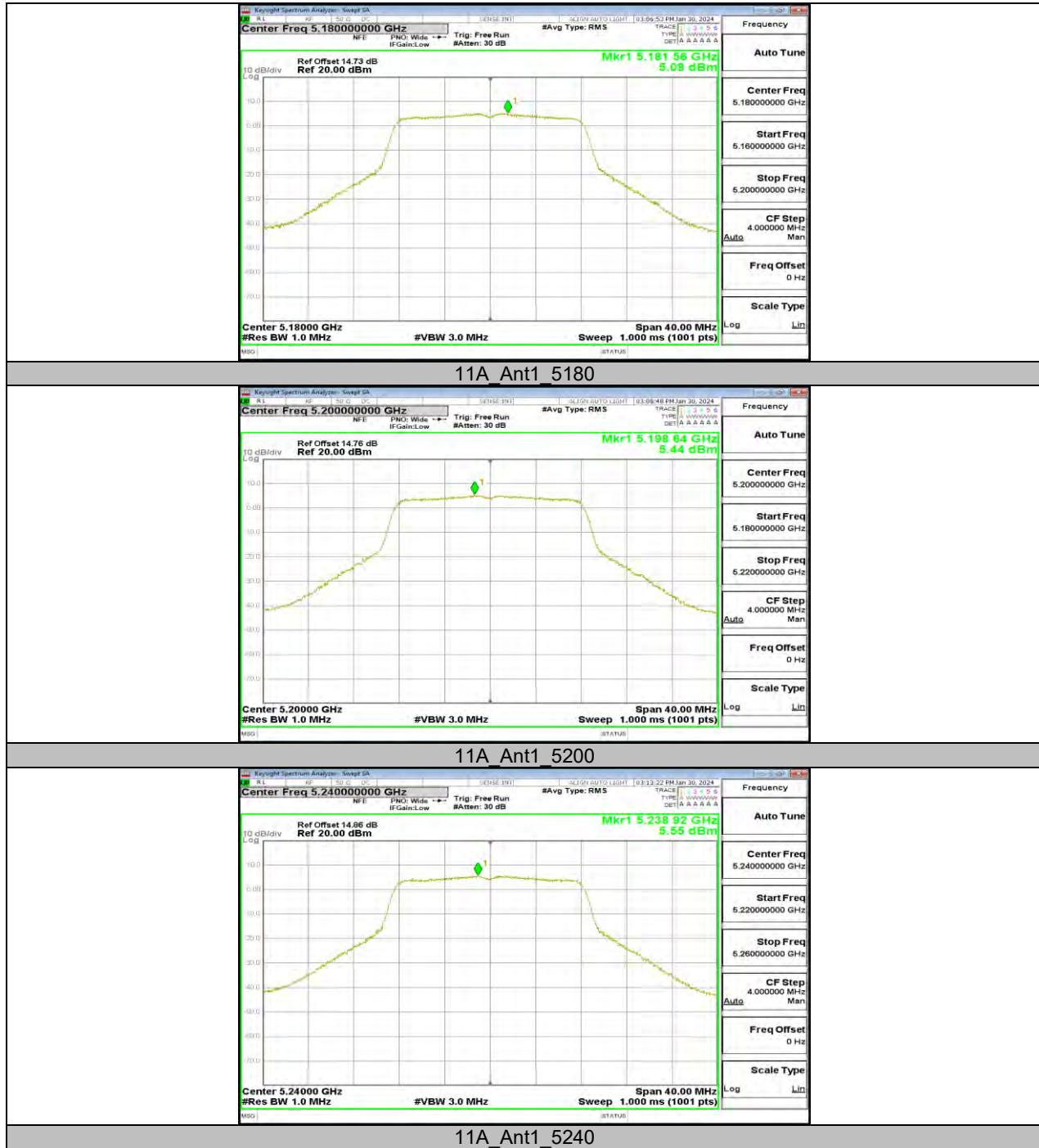
11.5.1. Test Result

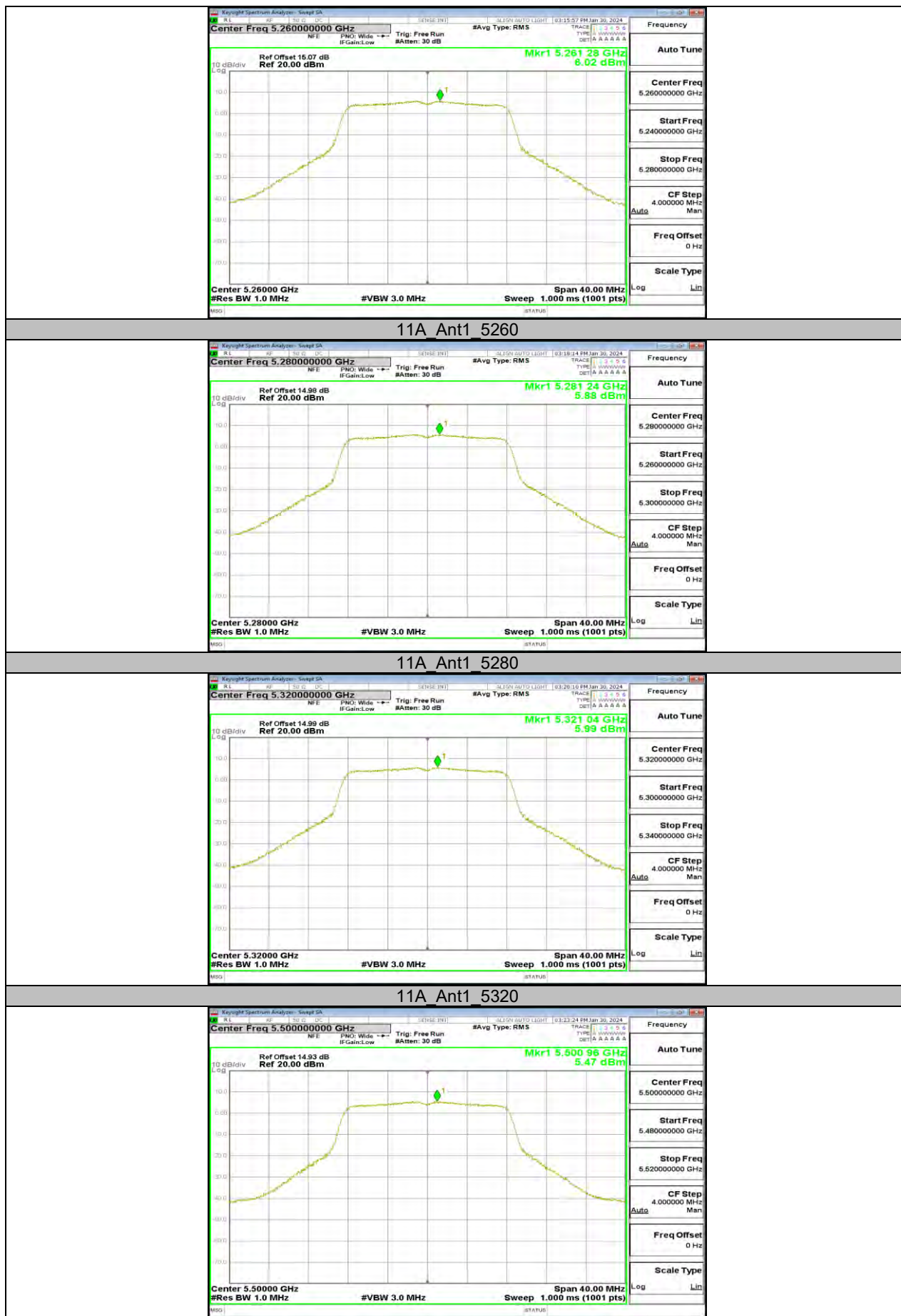
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	5.08	≤11.00	7.38	≤10.00	PASS
		5200	5.44	≤11.00	7.74	≤10.00	PASS
		5240	5.55	≤11.00	7.85	≤10.00	PASS
		5260	6.02	≤11.00	---	---	PASS
		5280	5.88	≤11.00	---	---	PASS
		5320	5.99	≤11.00	---	---	PASS
		5500	5.47	≤11.00	---	---	PASS
		5580	6.61	≤11.00	---	---	PASS
		5700	5.78	≤11.00	---	---	PASS
		5720 UNII-2C	5.36	≤11.00	---	---	PASS
		5720 UNII-3	0.95	≤30.00	---	---	PASS
		5745	2.72	≤30.00	---	---	PASS
		5785	2.40	≤30.00	---	---	PASS
		5825	2.16	≤30.00	---	---	PASS
11N20SISO	Ant1	5180	4.80	≤11.00	7.10	≤10.00	PASS
		5200	4.79	≤11.00	7.09	≤10.00	PASS
		5240	5.04	≤11.00	7.34	≤10.00	PASS
		5260	5.44	≤11.00	---	---	PASS
		5280	5.39	≤11.00	---	---	PASS
		5320	5.39	≤11.00	---	---	PASS
		5500	5.19	≤11.00	---	---	PASS
		5580	5.99	≤11.00	---	---	PASS
		5700	5.50	≤11.00	---	---	PASS
		5720 UNII-2C	4.60	≤11.00	---	---	PASS
		5720 UNII-3	0.18	≤30.00	---	---	PASS
		5745	1.61	≤30.00	---	---	PASS
		5785	1.67	≤30.00	---	---	PASS
		5825	1.62	≤30.00	---	---	PASS
11N40SISO	Ant1	5190	-0.70	≤11.00	1.60	≤10.00	PASS
		5230	0.36	≤11.00	2.66	≤10.00	PASS
		5270	0.43	≤11.00	---	---	PASS
		5310	0.66	≤11.00	---	---	PASS
		5510	-0.13	≤11.00	---	---	PASS
		5550	0.32	≤11.00	---	---	PASS
		5670	0.27	≤11.00	---	---	PASS
		5710 UNII-2C	0.19	≤11.00	---	---	PASS
		5710 UNII-3	-4.79	≤30.00	---	---	PASS
		5755	-3.22	≤30.00	---	---	PASS
		5795	-2.83	≤30.00	---	---	PASS
11AC80SISO	Ant1	5210	-5.71	≤11.00	-3.41	≤10.00	PASS
		5290	-5.06	≤11.00	---	---	PASS
		5530	-5.51	≤11.00	---	---	PASS
		5610	-5.20	≤11.00	---	---	PASS
		5690 UNII-2C	-5.11	≤11.00	---	---	PASS
		5690 UNII-3	-10.21	≤30.00	---	---	PASS
		5775	-8.99	≤30.00	---	---	PASS

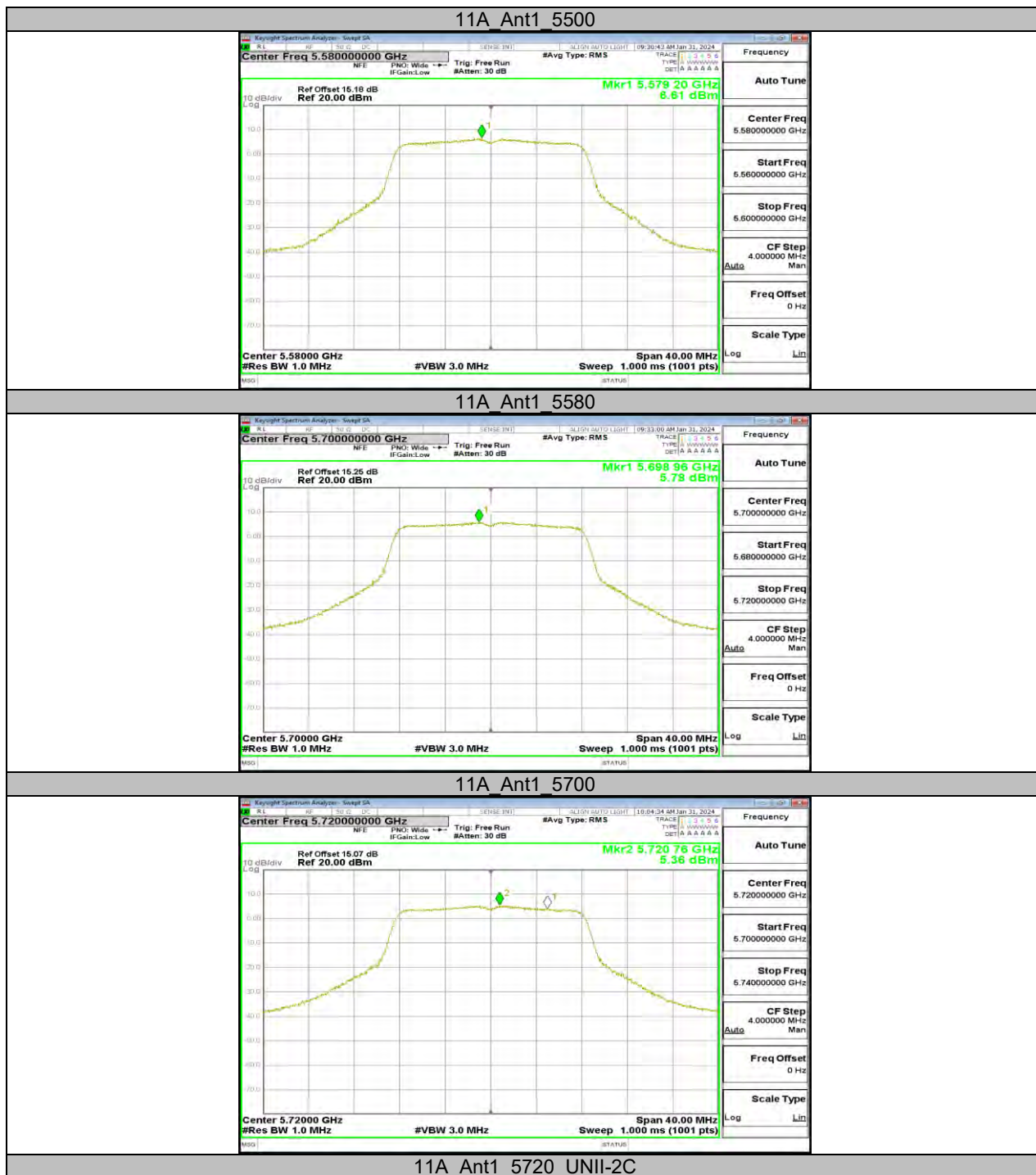
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

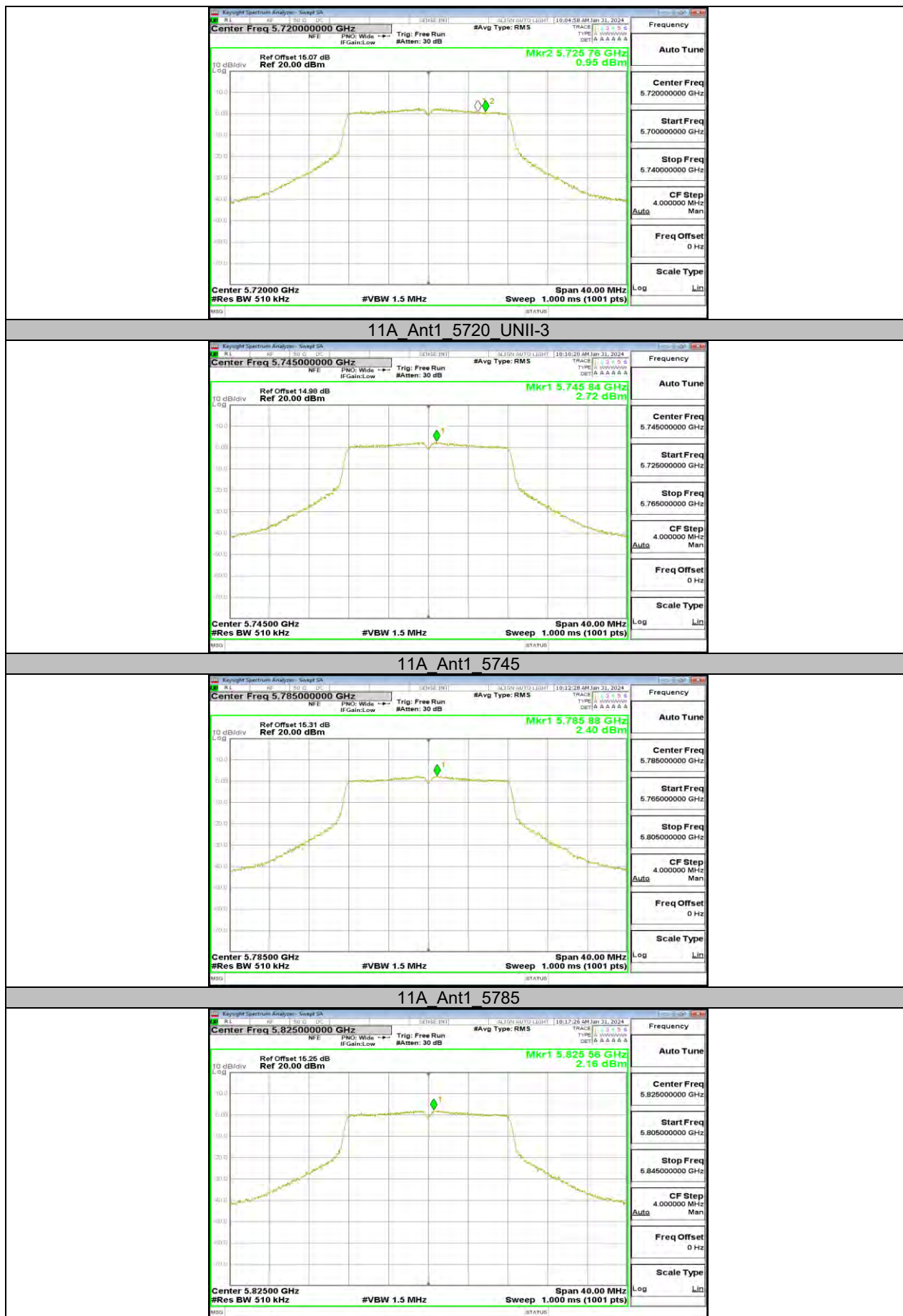
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

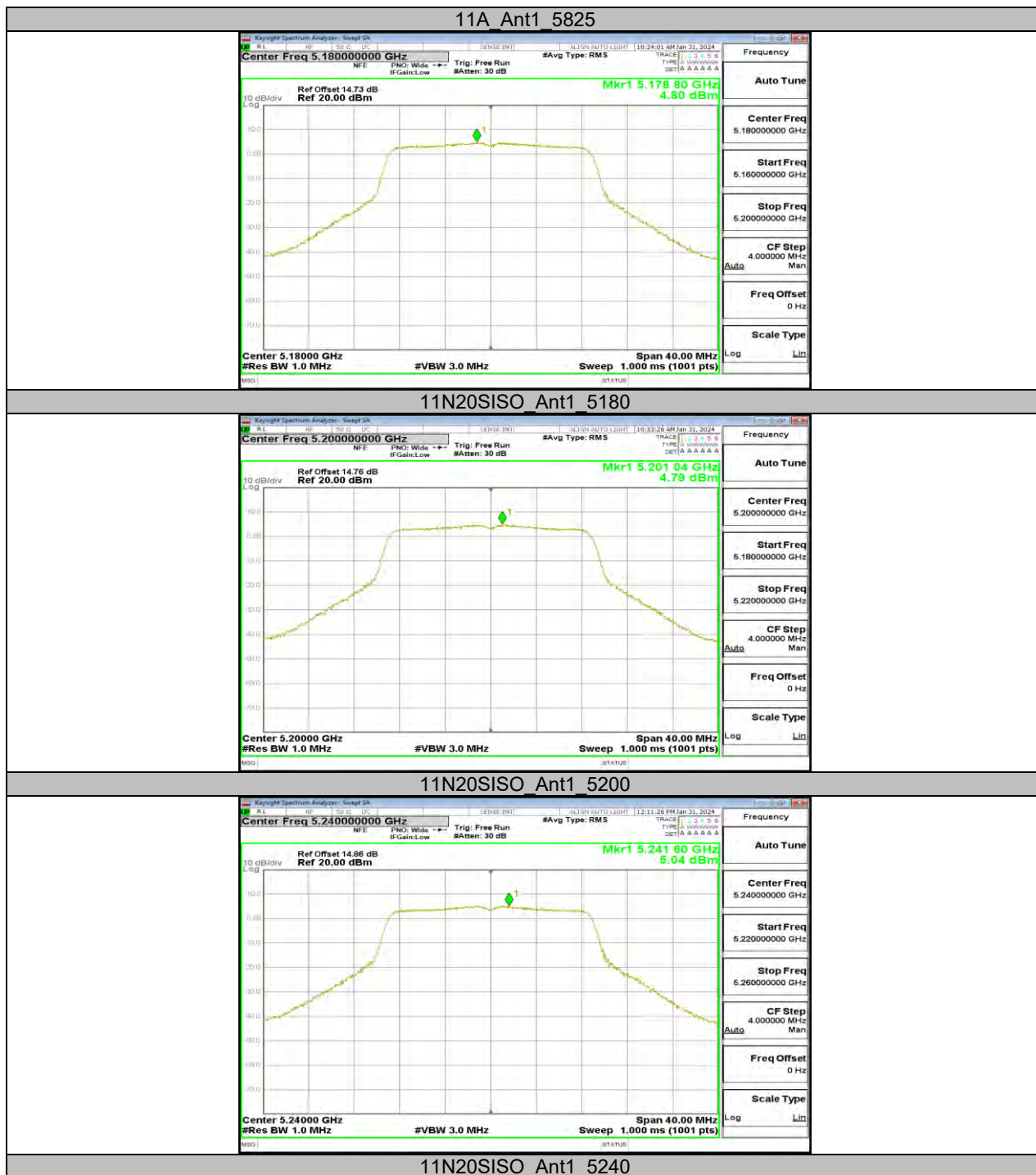
11.5.2. Test Graphs

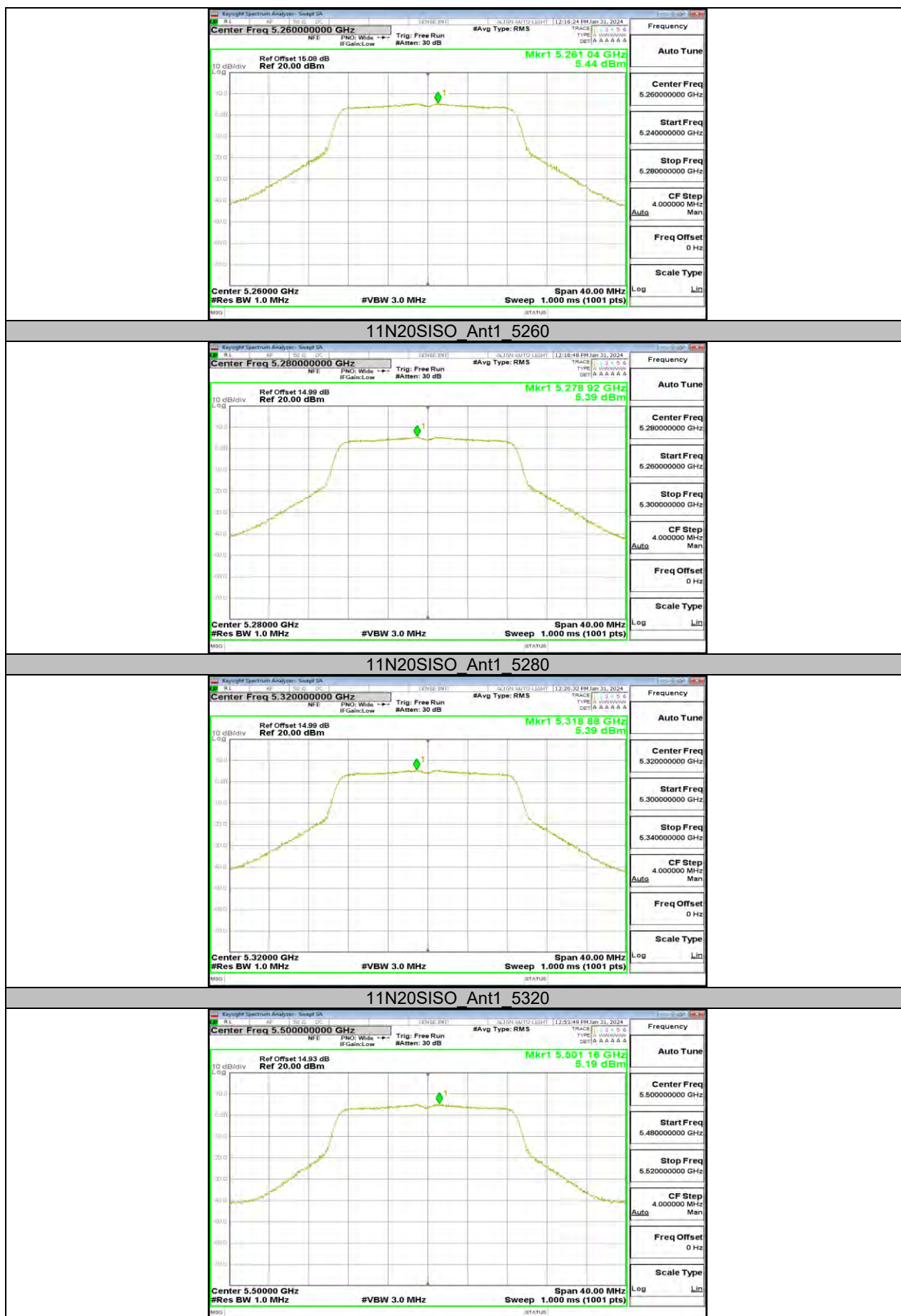


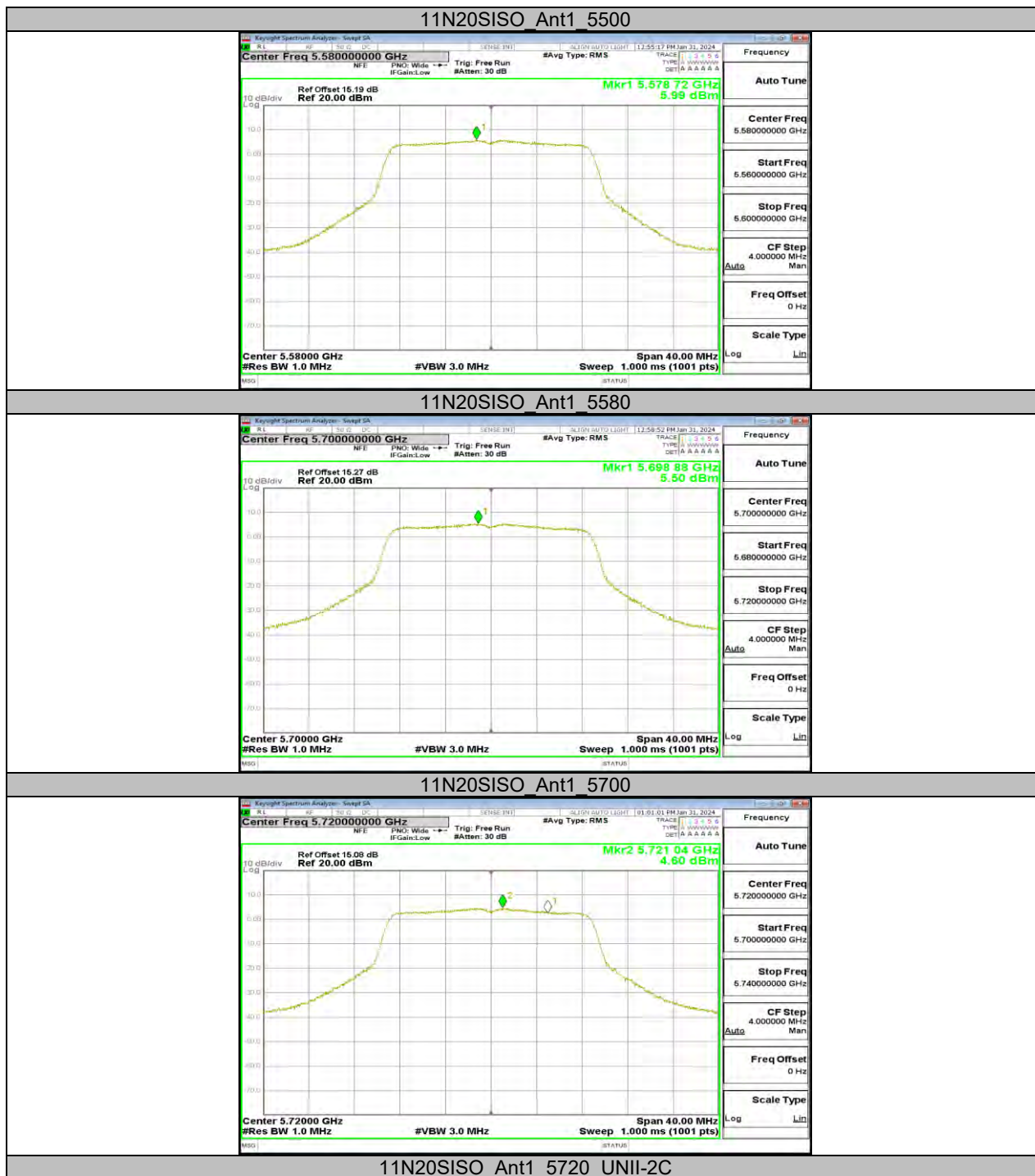






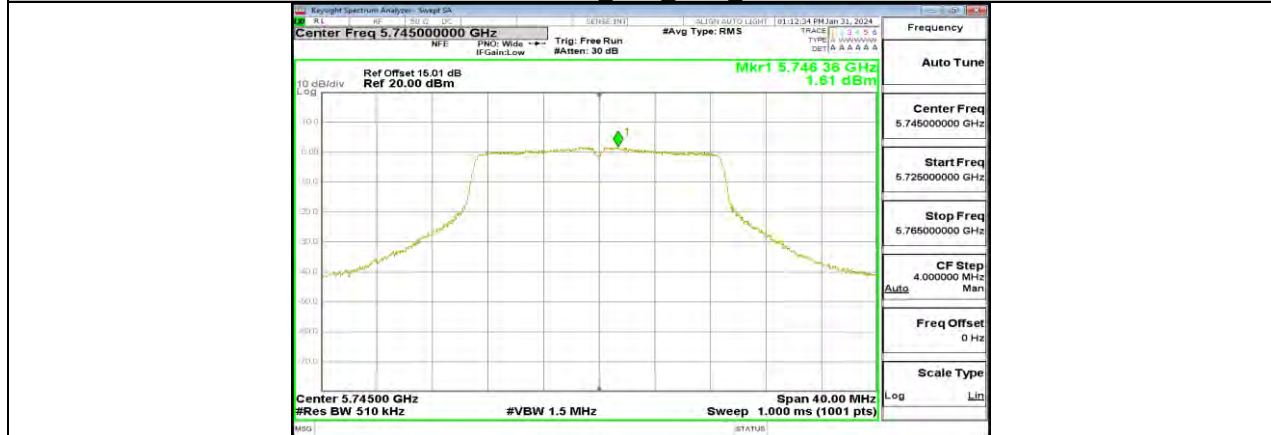








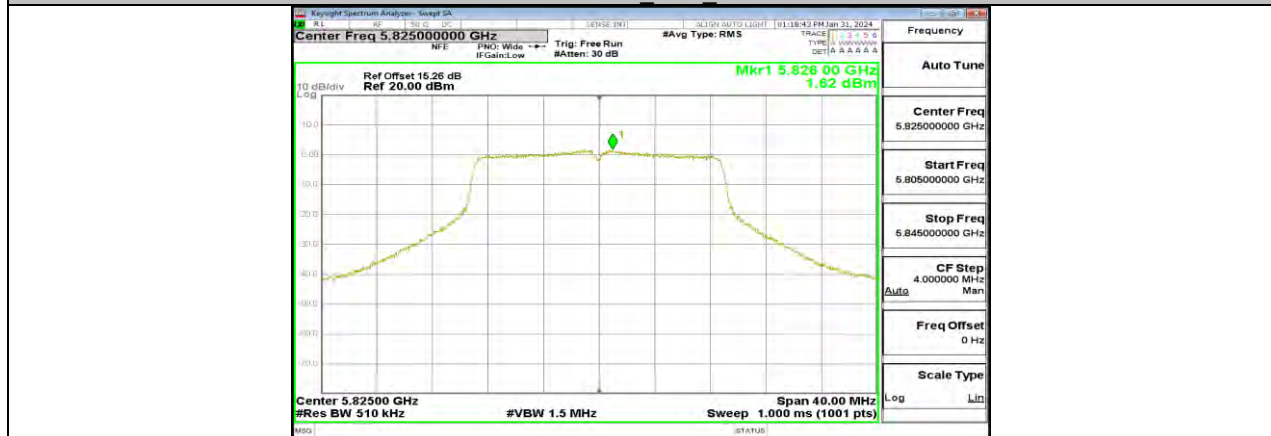
11N20SISO Ant1 5720 UNII-3

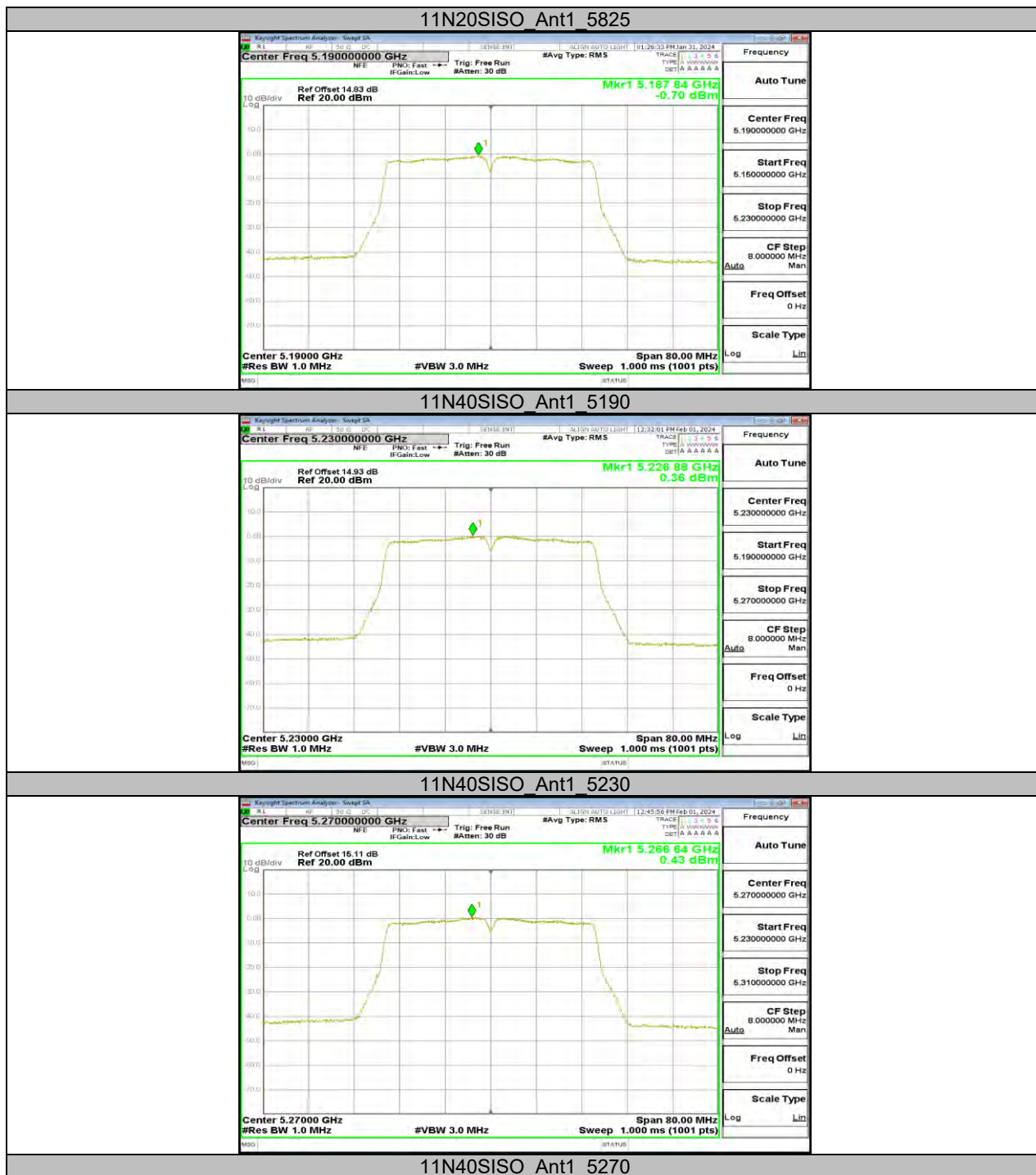


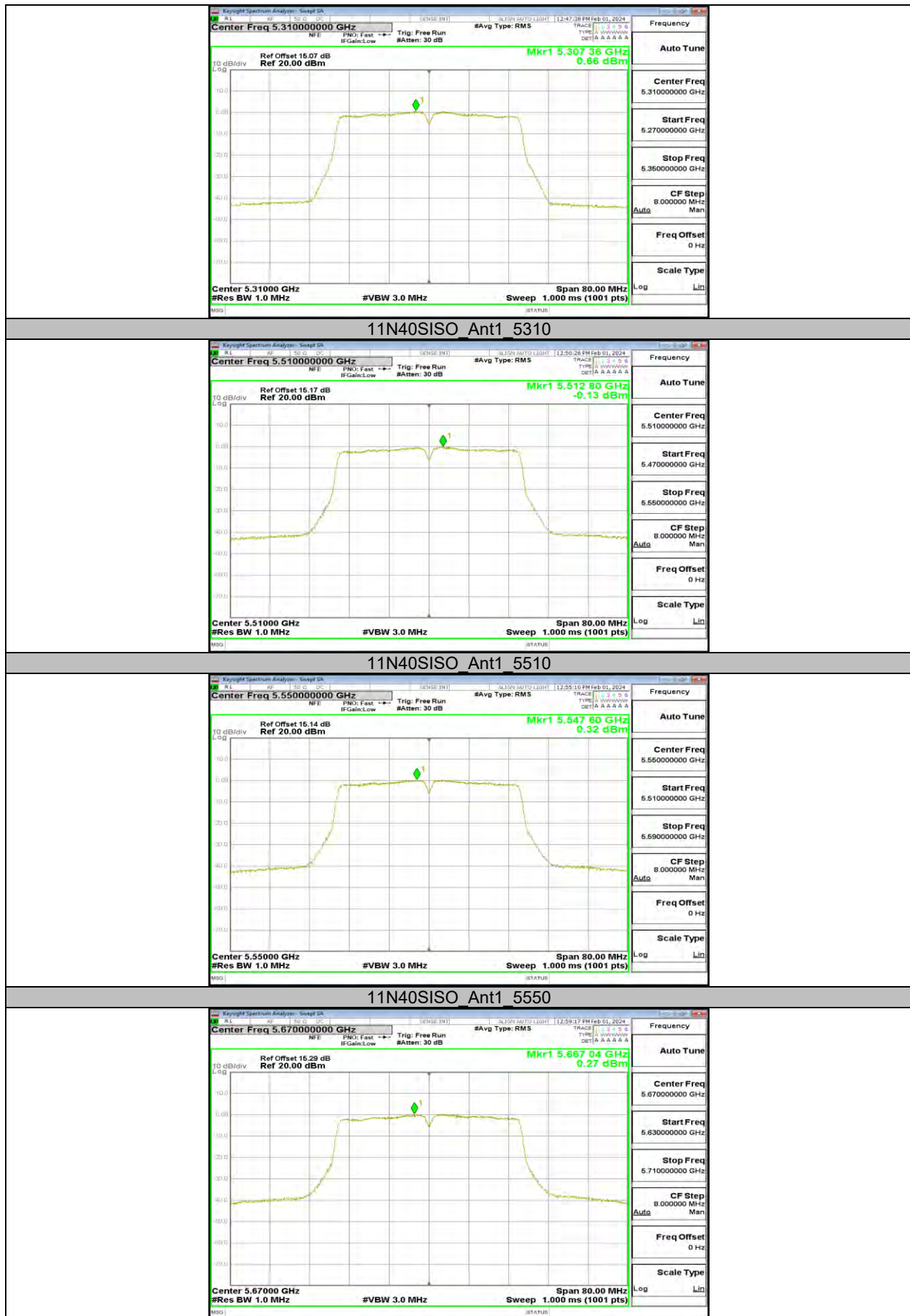
11N20SISO Ant1 5745

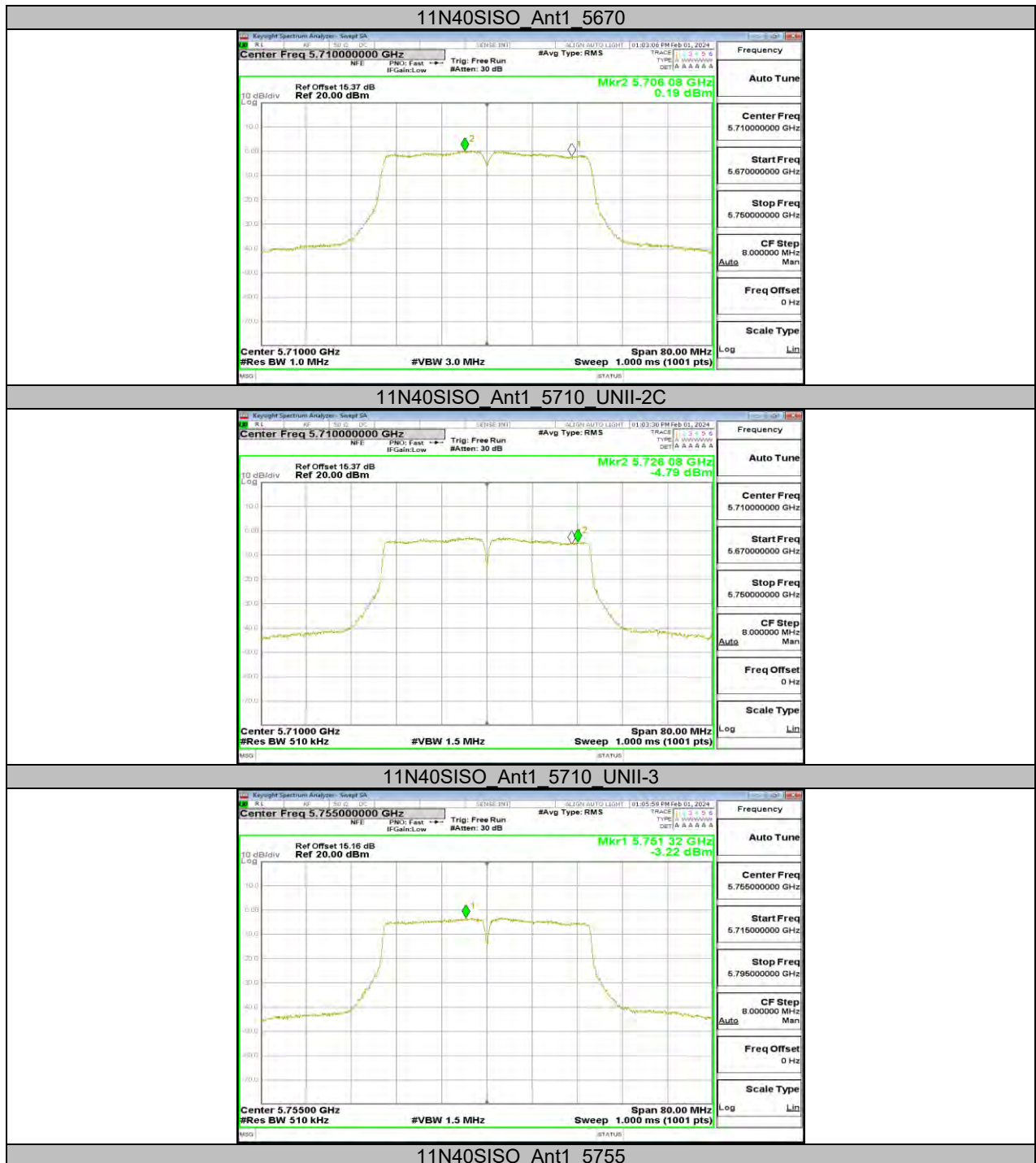


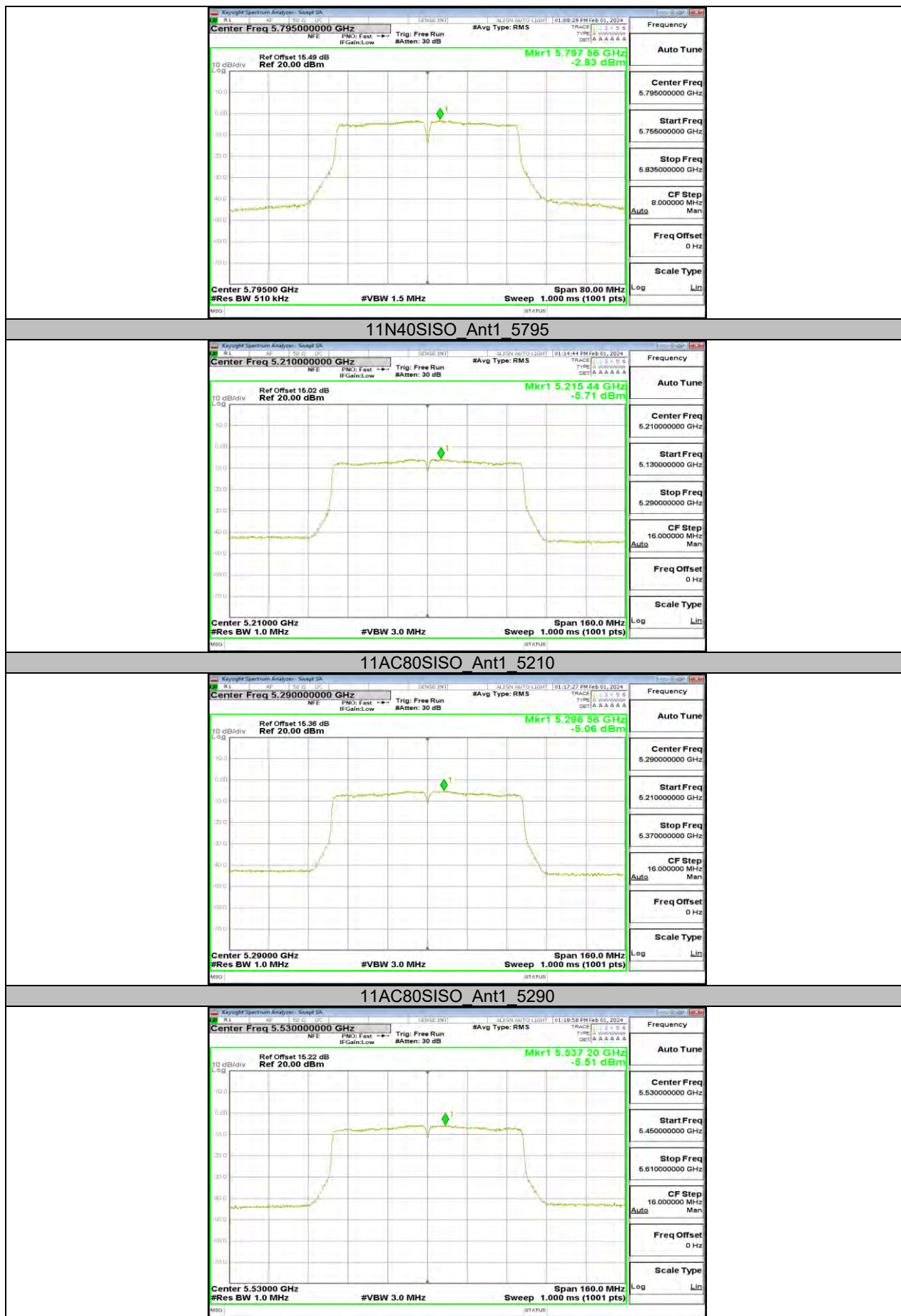
11N20SISO Ant1 5785

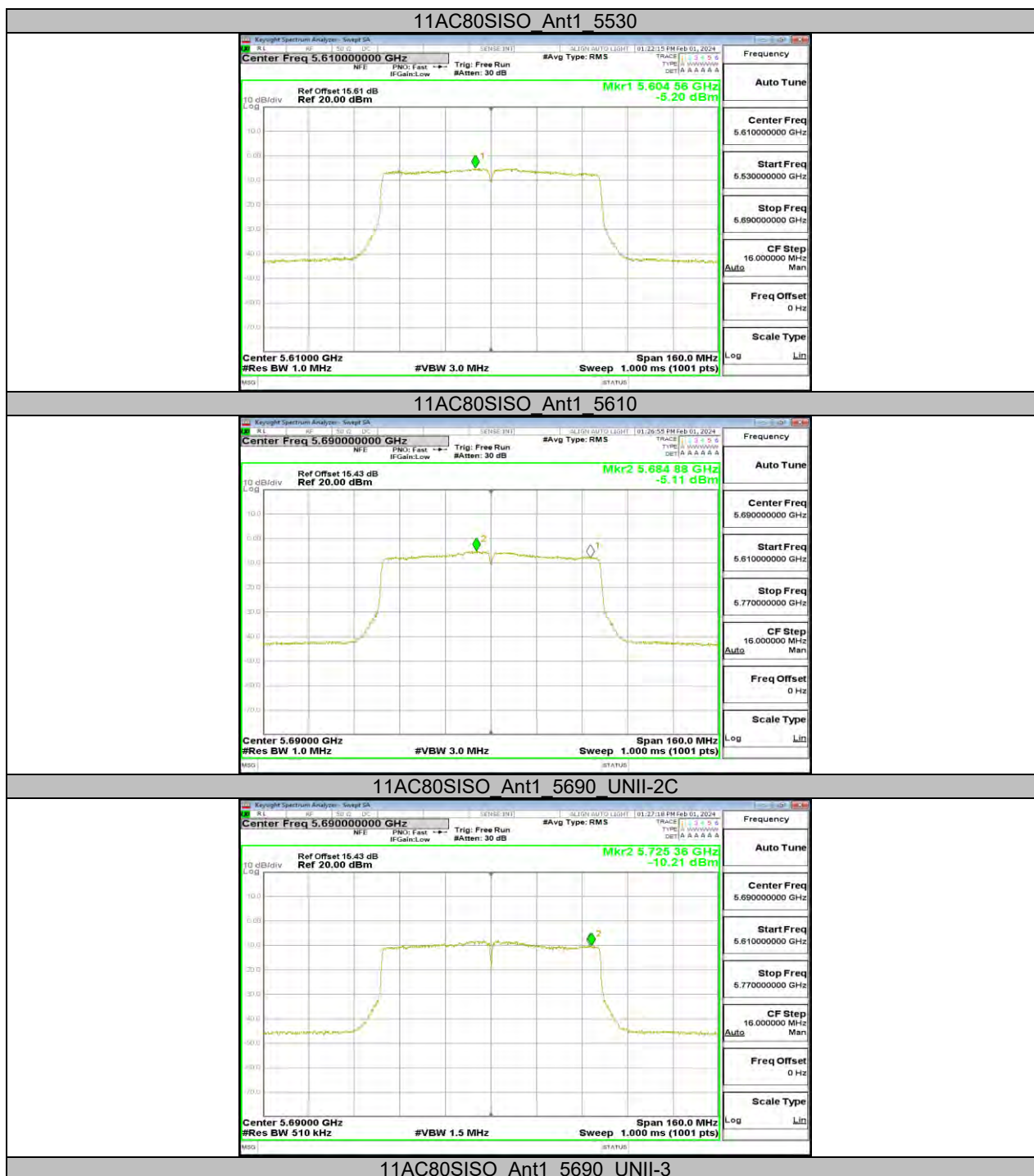














Note: For UNII-3, while a VBW equal to or greater than 3xRBW was not used, there is no impact on the maximum power density based on spot-check.

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	5200.0213	4.10	5200.0143	2.74	5199.9902	-1.88	5199.9779	-4.26
TN	VN	5200.0083	1.59	5199.9869	-2.52	5199.9856	-2.76	5200.0124	2.39
TN	VH	5199.9959	-0.78	5199.9807	-3.72	5200.0067	1.30	5200.0120	2.31
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)
45	VN	5200.0177	3.40	5200.0173	3.33	5200.0180	3.46	5200.0232	4.46
40	VN	5200.0146	2.80	5199.9913	-1.67	5200.0082	1.58	5199.9811	-3.63
30	VN	5200.0156	3.00	5200.0131	2.53	5199.9908	-1.78	5199.9953	-0.90
20	VN	5200.0160	3.07	5200.0211	4.06	5199.9889	-2.14	5200.0089	1.72
10	VN	5200.0076	1.46	5200.0225	4.33	5199.9996	-0.07	5200.0230	4.42
0	VN	5199.9898	-1.96	5199.9954	-0.89	5200.0151	2.89	5200.0197	3.78
-10	VN	5199.9774	-4.34	5199.9850	-2.88	5200.0121	2.33	5200.0216	4.15

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	2.02	2.06	0.9806	98.06	0.09	N/A	0.01
11N20SISO	1.88	1.92	0.9792	97.92	0.09	0.53	1
11N40SISO	0.93	0.97	0.9588	95.88	0.18	1.08	2
11AC80SISO	0.45	0.49	0.9184	91.84	0.37	2.22	3

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.

If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW \leq RBW/100 (i.e., 10 kHz) but not less than 10 Hz.

11.7.2. Test Graphs



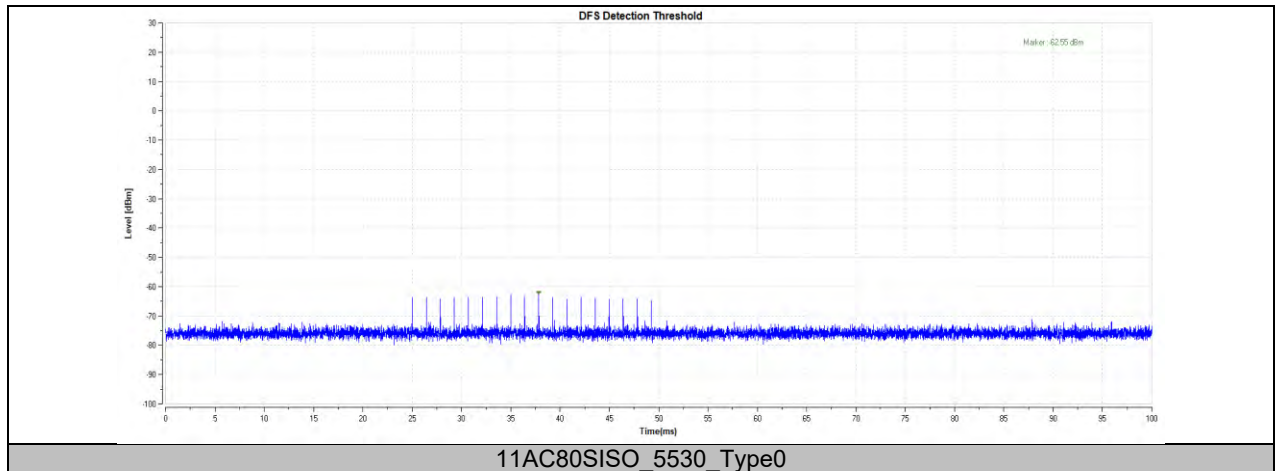


11.8. APPENDIX H: DFS DETECTION THRESHOLDS

11.8.1. Test Result

Test Mode	Frequency[MHz]	Radar Type	Result	Verdict
11AC80SISO	5530	Type0	-62.55	PASS

11.8.2. Test Graphs



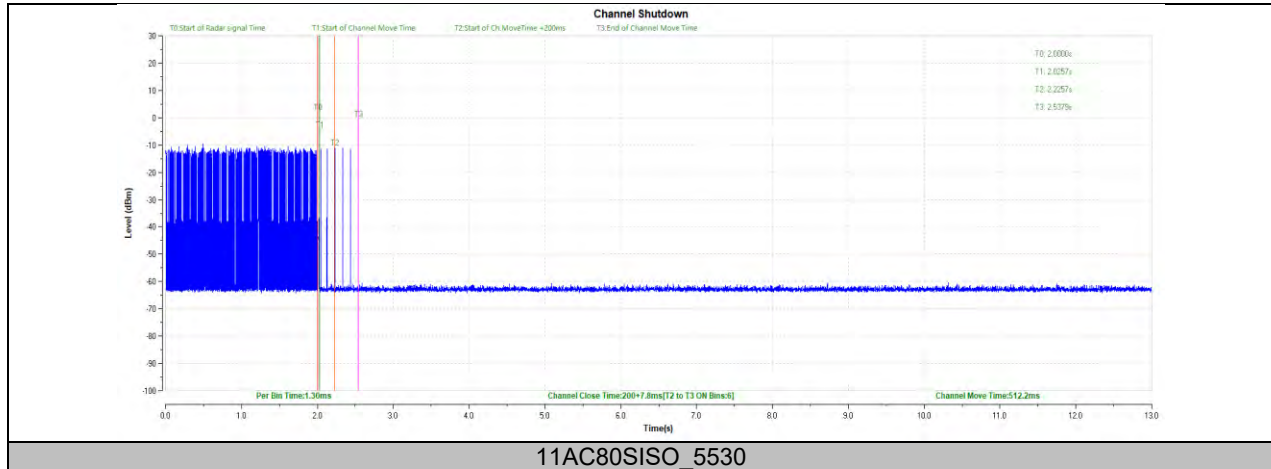
11.9. APPENDIX I: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.9.1. Test Result

Test Mode	Frequency[MHz]	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+7.8	200+60	512.2	10000	PASS

Note: refer to KDB 905462 D02 table 2, this report only records the widest BW mode test data.

11.9.2. Test Graphs



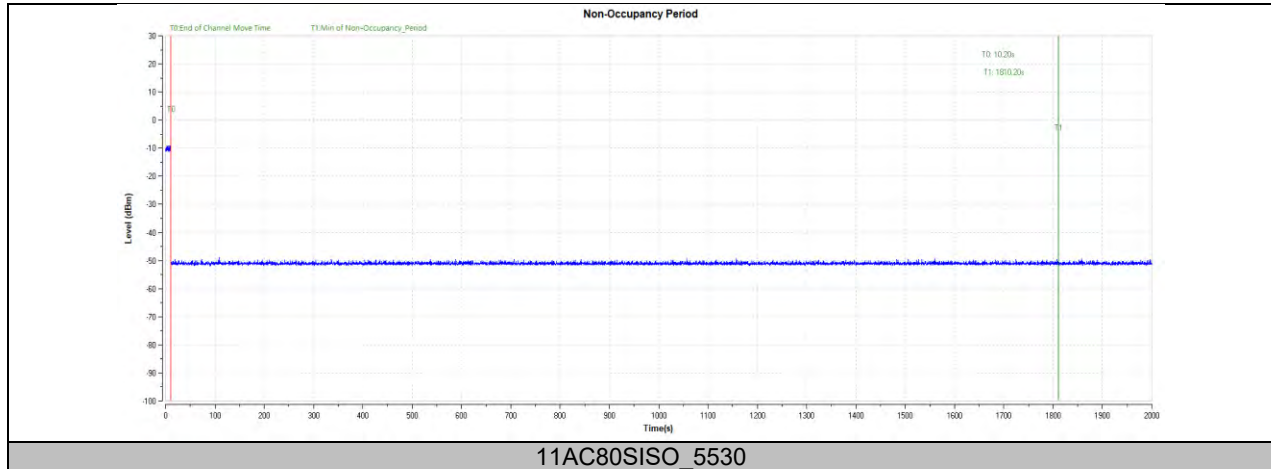
11.10. APPENDIX J: NON-OCCUPANCY PERIOD

Test Result

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

Note: refer to KDB 905462 D02 table 2, this report only records the widest BW mode test data.

11.10.1. Test Graphs



END OF REPORT