

Appendix: 5.6G Wi-Fi

Contents

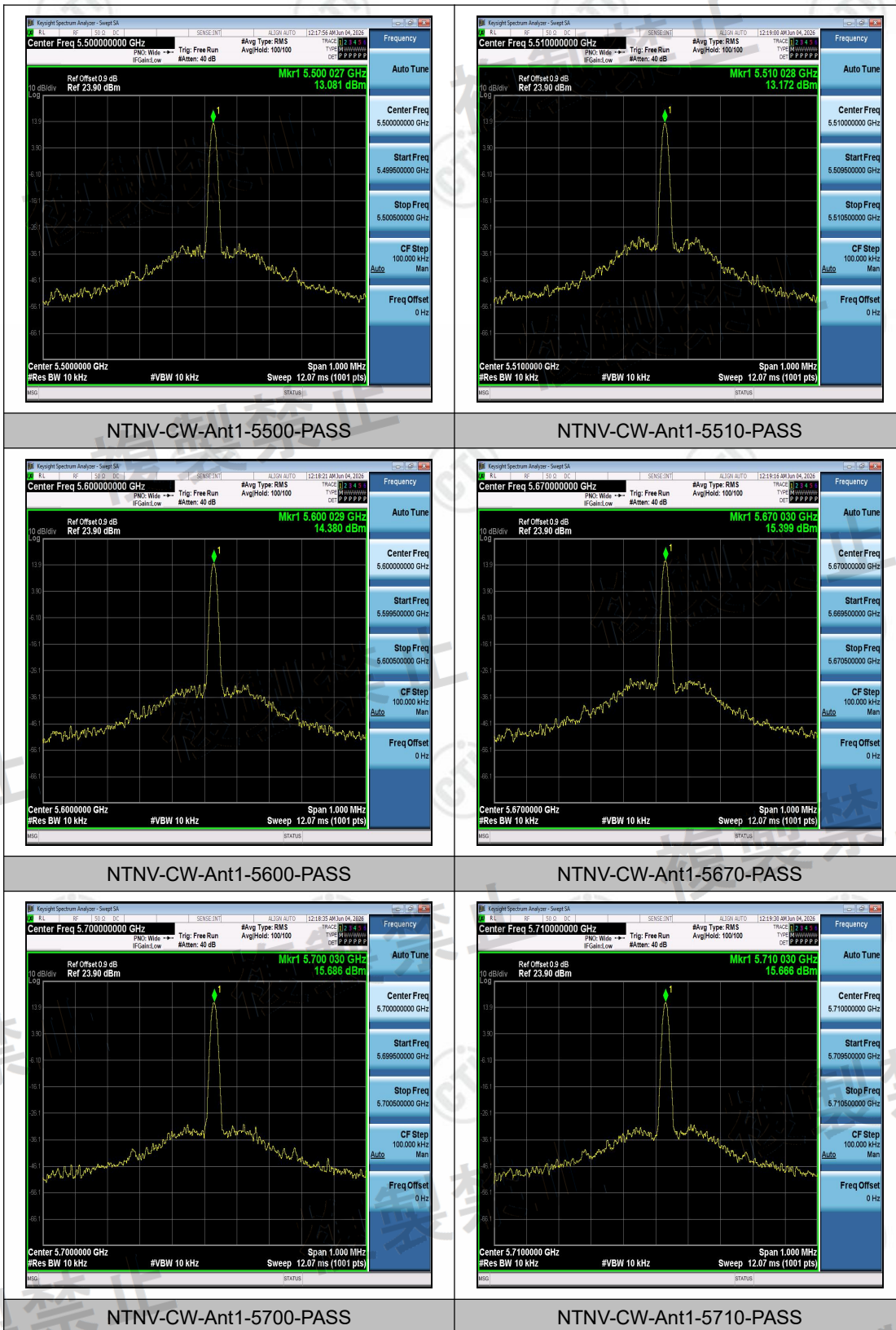
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Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequen cy[MHz]	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	CW	Ant1	5500	5500.027	4.90909	±20	PASS
NTNV	CW	Ant1	5510	5510.028	5.08167	±20	PASS
NTNV	CW	Ant1	5600	5600.029	5.17857	±20	PASS
NTNV	CW	Ant1	5670	5670.03	5.29101	±20	PASS
NTNV	CW	Ant1	5700	5700.03	5.26316	±20	PASS
NTNV	CW	Ant1	5710	5710.03	5.25394	±20	PASS
NTNV	CW	Ant1	5720	5720.03	5.24476	±20	PASS

Test Graphs





Appendix B: Antenna Power

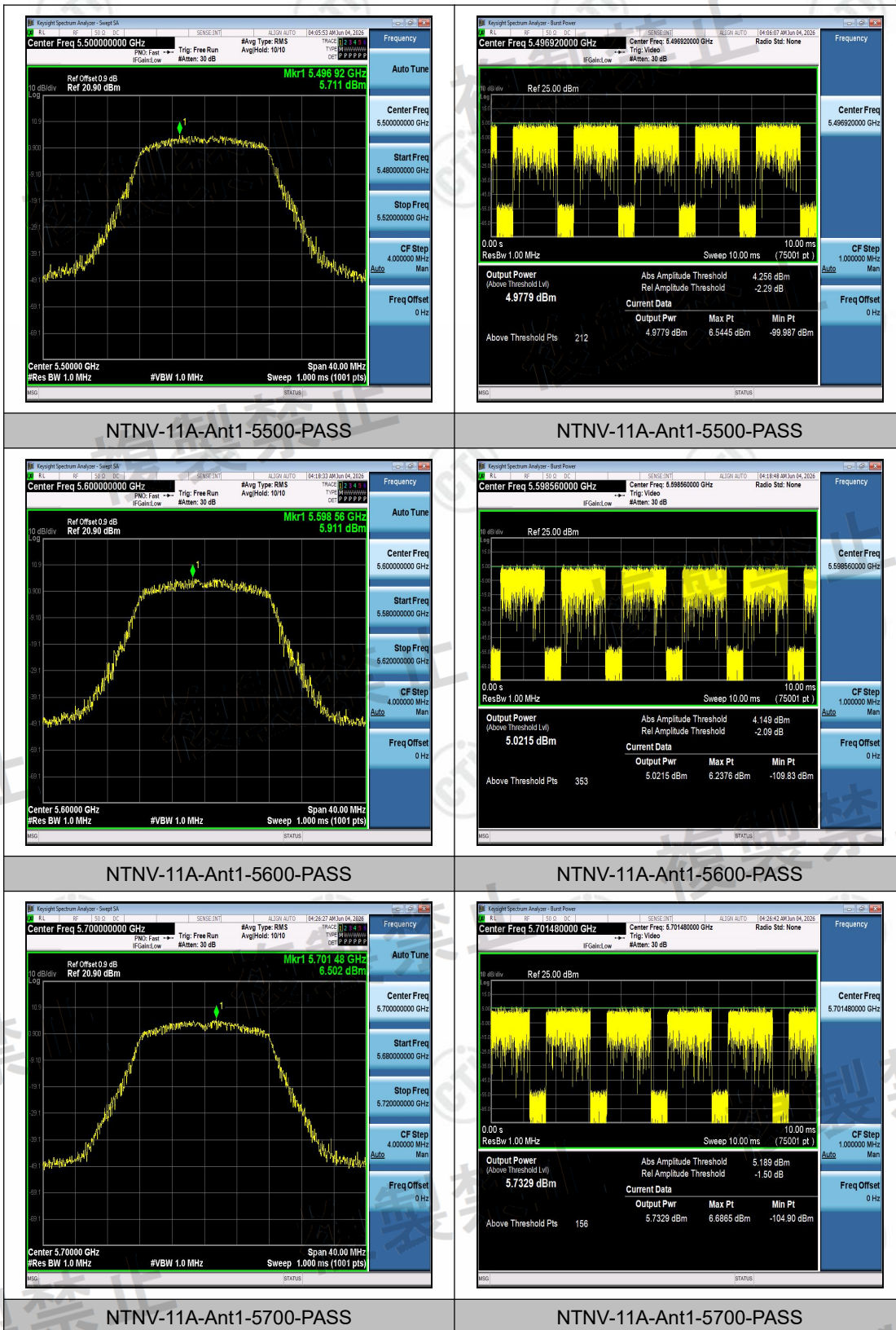
Test Result

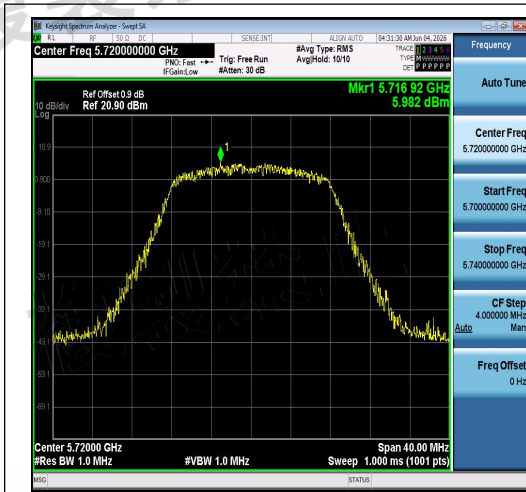
Test Condition	TestMode	Antenna	Frequency[MHz]	Result(dBm /MHz)	Result(mW/ MHz)	Limit(mW /MHz)	Verdict
NTNV	11A	Ant1	5500	4.98	3.1477	≤10	PASS
NTNV	11A	Ant1	5600	5.02	3.1769	≤10	PASS
NTNV	11A	Ant1	5700	5.73	3.7411	≤10	PASS
NTNV	11A	Ant1	5720	5.08	3.2211	≤10	PASS
NTNV	11N20SISO	Ant1	5500	4.27	2.6730	≤10	PASS
NTNV	11N20SISO	Ant1	5600	4.53	2.8379	≤10	PASS
NTNV	11N20SISO	Ant1	5700	5.03	3.1842	≤10	PASS
NTNV	11N20SISO	Ant1	5720	4.76	2.9923	≤10	PASS
NTNV	11N40SISO	Ant1	5510	-0.59	0.8730	≤5	PASS
NTNV	11N40SISO	Ant1	5670	0.15	1.0351	≤5	PASS
NTNV	11N40SISO	Ant1	5710	0.19	1.0447	≤5	PASS

Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW/M Hz)	Rated Power (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11A	Ant1	5500	3.1477	3.7	-14.93	-50 to +50	PASS
NTNV	11A	Ant1	5600	3.1769	3.7	-14.14	-50 to +50	PASS
NTNV	11A	Ant1	5700	3.7411	3.7	1.11	-50 to +50	PASS
NTNV	11A	Ant1	5720	3.2211	3.7	-12.94	-50 to +50	PASS
NTNV	11N20SISO	Ant1	5500	2.6730	3	-10.90	-50 to +50	PASS
NTNV	11N20SISO	Ant1	5600	2.8379	3	-5.40	-50 to +50	PASS
NTNV	11N20SISO	Ant1	5700	3.1842	3	6.14	-50 to +50	PASS
NTNV	11N20SISO	Ant1	5720	2.9923	3	-0.26	-50 to +50	PASS
NTNV	11N40SISO	Ant1	5510	0.8730	1	-12.70	-50 to +50	PASS
NTNV	11N40SISO	Ant1	5670	1.0351	1	3.51	-50 to +50	PASS
NTNV	11N40SISO	Ant1	5710	1.0447	1	4.47	-50 to +50	PASS

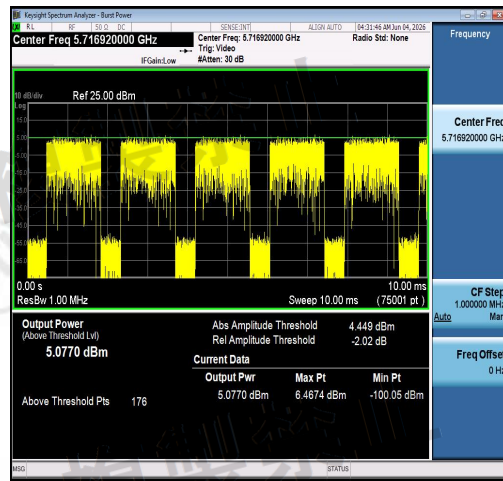
Test Condition	TestMode	Antenna	Frequency[MHz]	Result(mW/MHz)	EIRP(mW/MHz)	Limit(mW/MHz)	Verdict
NTNV	11A	Ant1	5500	3.1477	6.2806	≤25	PASS
NTNV	11A	Ant1	5600	3.1769	6.3387	≤25	PASS
NTNV	11A	Ant1	5700	3.7411	7.4645	≤25	PASS
NTNV	11A	Ant1	5720	3.2211	6.4269	≤25	PASS
NTNV	11N20SISO	Ant1	5500	2.6730	5.3333	≤25	PASS
NTNV	11N20SISO	Ant1	5600	2.8379	5.6624	≤25	PASS
NTNV	11N20SISO	Ant1	5700	3.1842	6.3533	≤25	PASS
NTNV	11N20SISO	Ant1	5720	2.9923	5.9704	≤25	PASS
NTNV	11N40SISO	Ant1	5510	0.8730	1.7418	≤12.5	PASS
NTNV	11N40SISO	Ant1	5670	1.0351	2.0654	≤12.5	PASS
NTNV	11N40SISO	Ant1	5710	1.0447	2.0845	≤12.5	PASS

Test Graphs

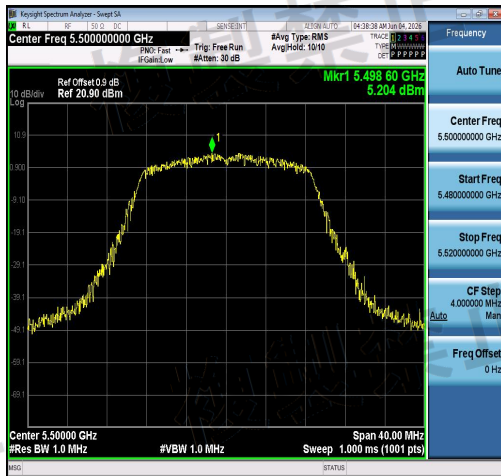




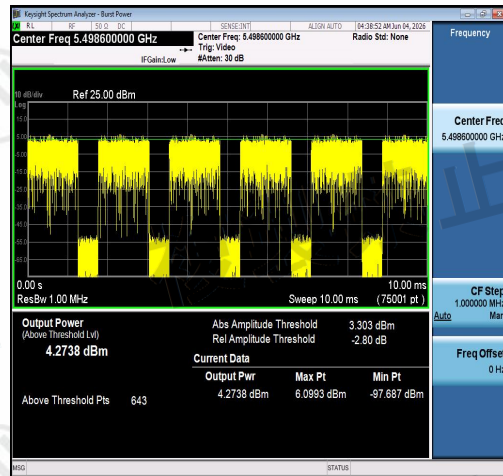
NTNV-11A-Ant1-5720-PASS



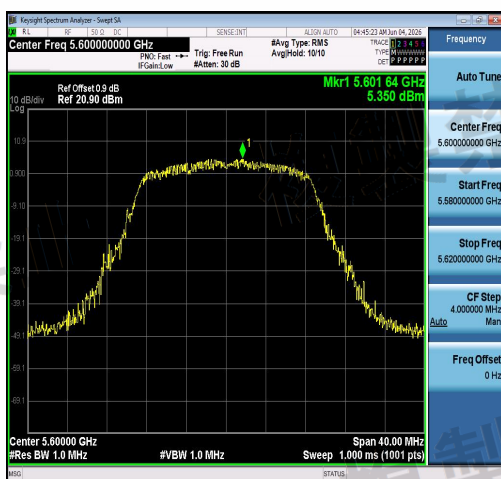
NTNV-11A-Ant1-5720-PASS



NTNV-11N20SISO-Ant1-5500-PASS



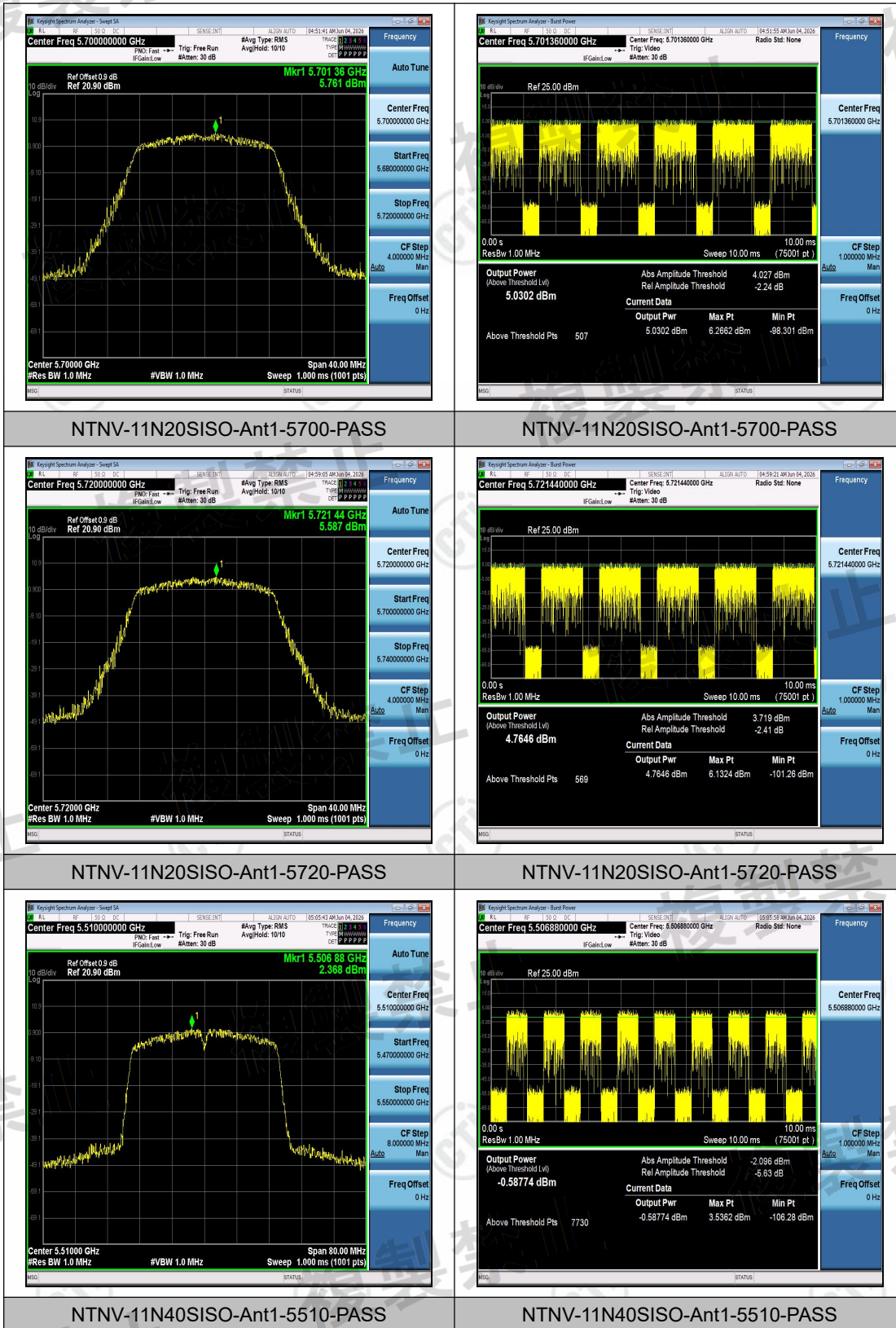
NTNV-11N20SISO-Ant1-5500-PASS

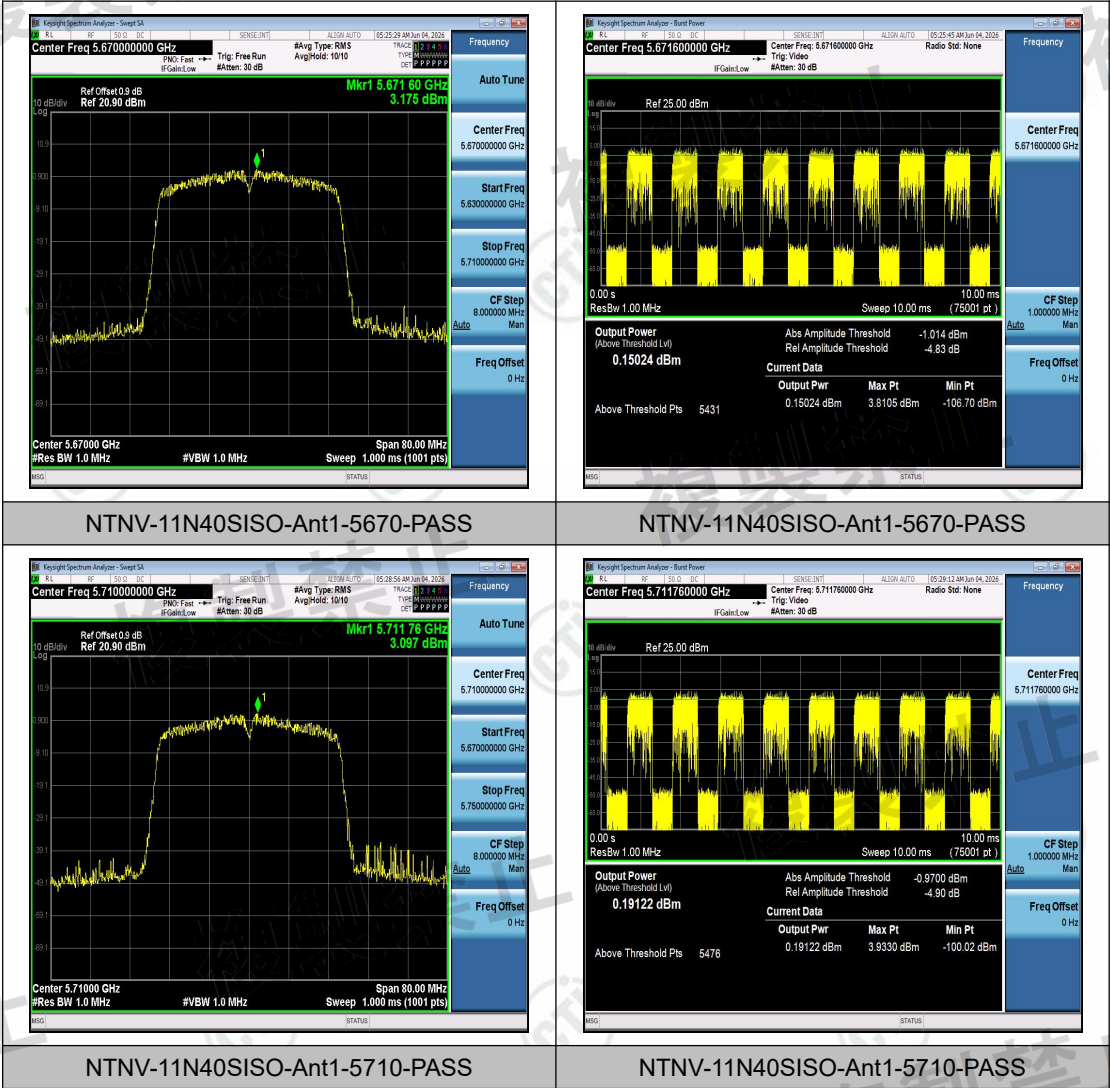


NTNV-11N20SISO-Ant1-5600-PASS



NTNV-11N20SISO-Ant1-5600-PASS



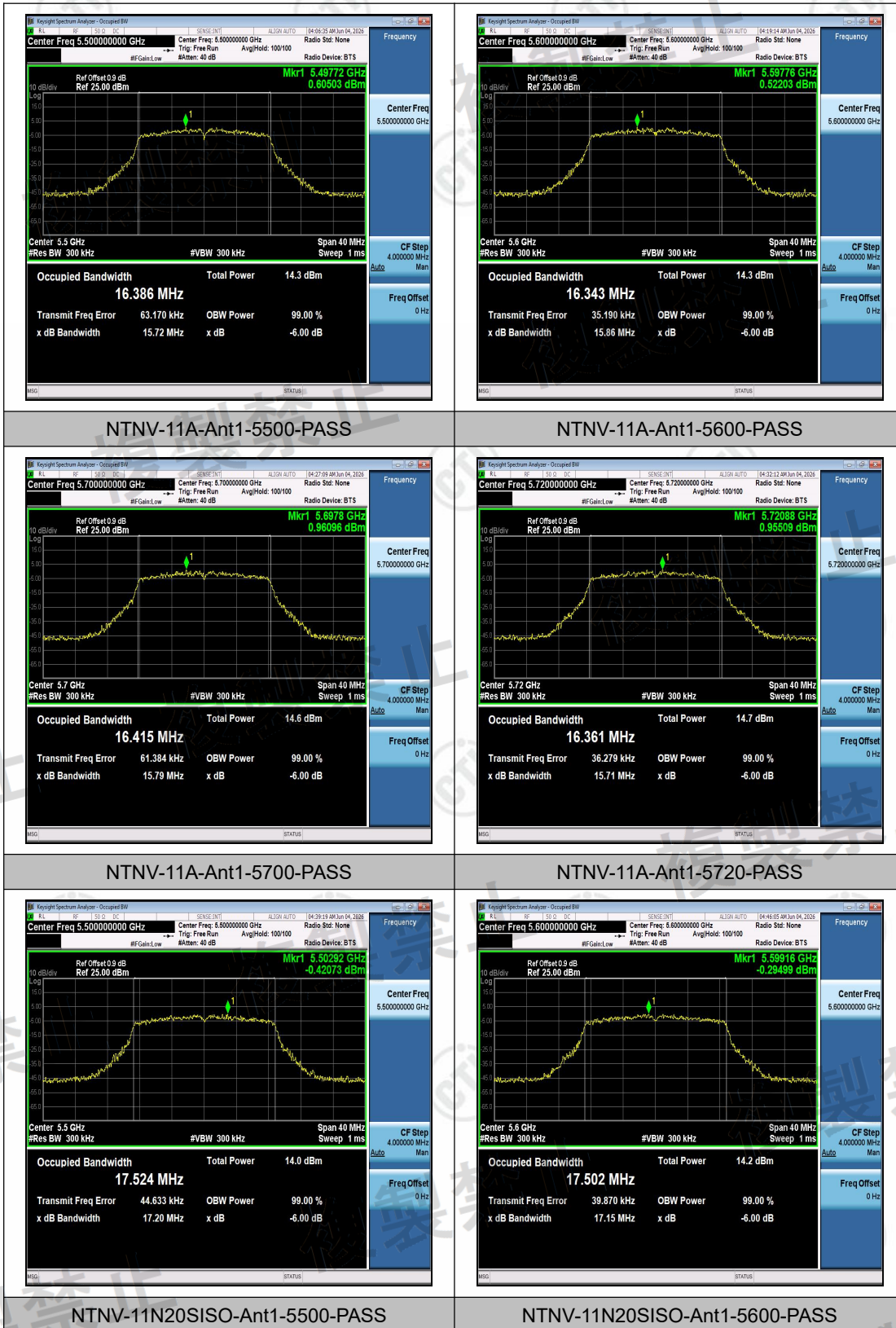


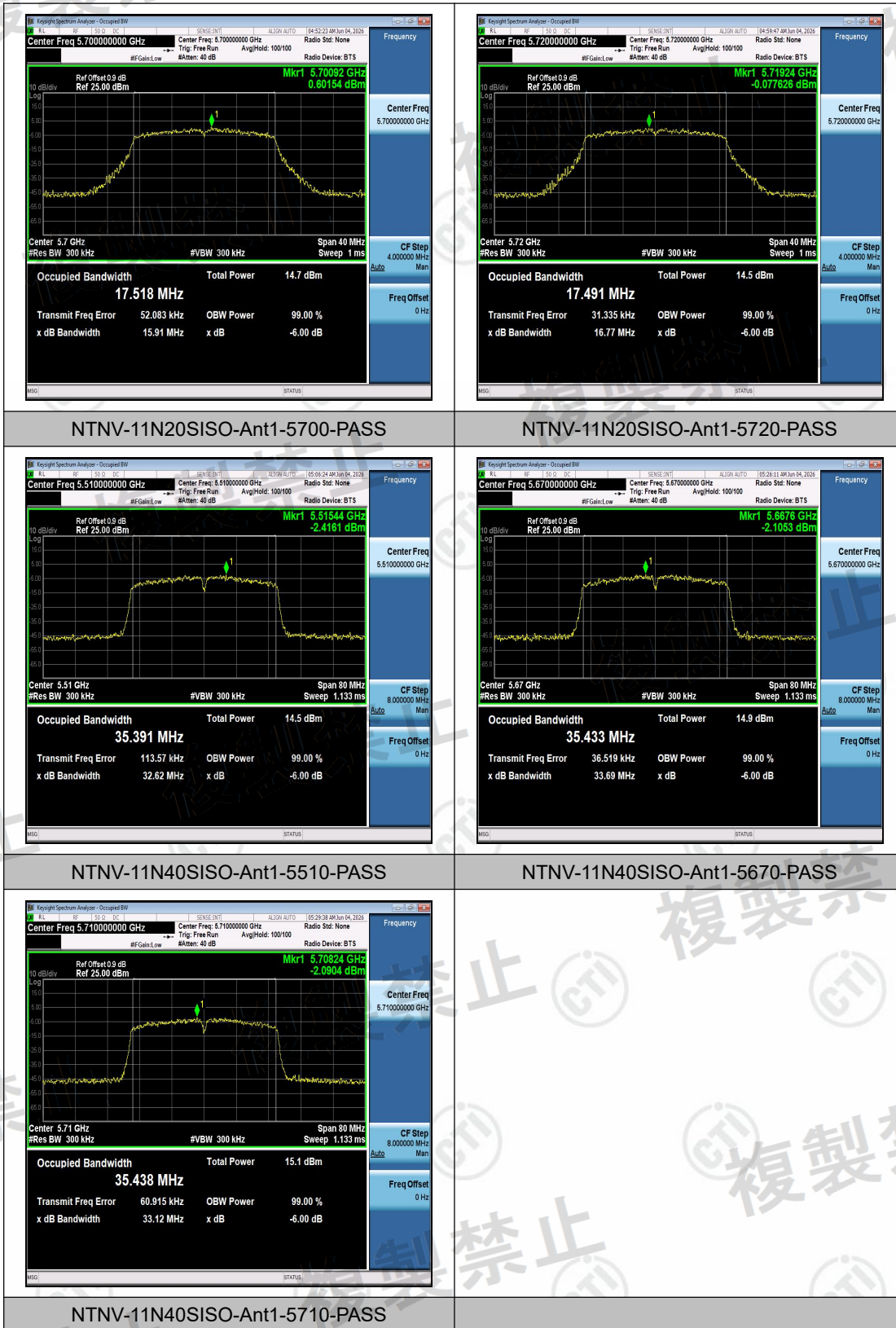
Appendix C: Occupied Bandwidth

Test Result

Test Condition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5500	16.386	≤20	PASS
NTNV	11A	Ant1	5600	16.343	≤20	PASS
NTNV	11A	Ant1	5700	16.415	≤20	PASS
NTNV	11A	Ant1	5720	16.361	≤20	PASS
NTNV	11N20SISO	Ant1	5500	17.524	≤20	PASS
NTNV	11N20SISO	Ant1	5600	17.502	≤20	PASS
NTNV	11N20SISO	Ant1	5700	17.518	≤20	PASS
NTNV	11N20SISO	Ant1	5720	17.491	≤20	PASS
NTNV	11N40SISO	Ant1	5510	35.391	≤40	PASS
NTNV	11N40SISO	Ant1	5670	35.433	≤40	PASS
NTNV	11N40SISO	Ant1	5710	35.438	≤40	PASS

Test Graphs



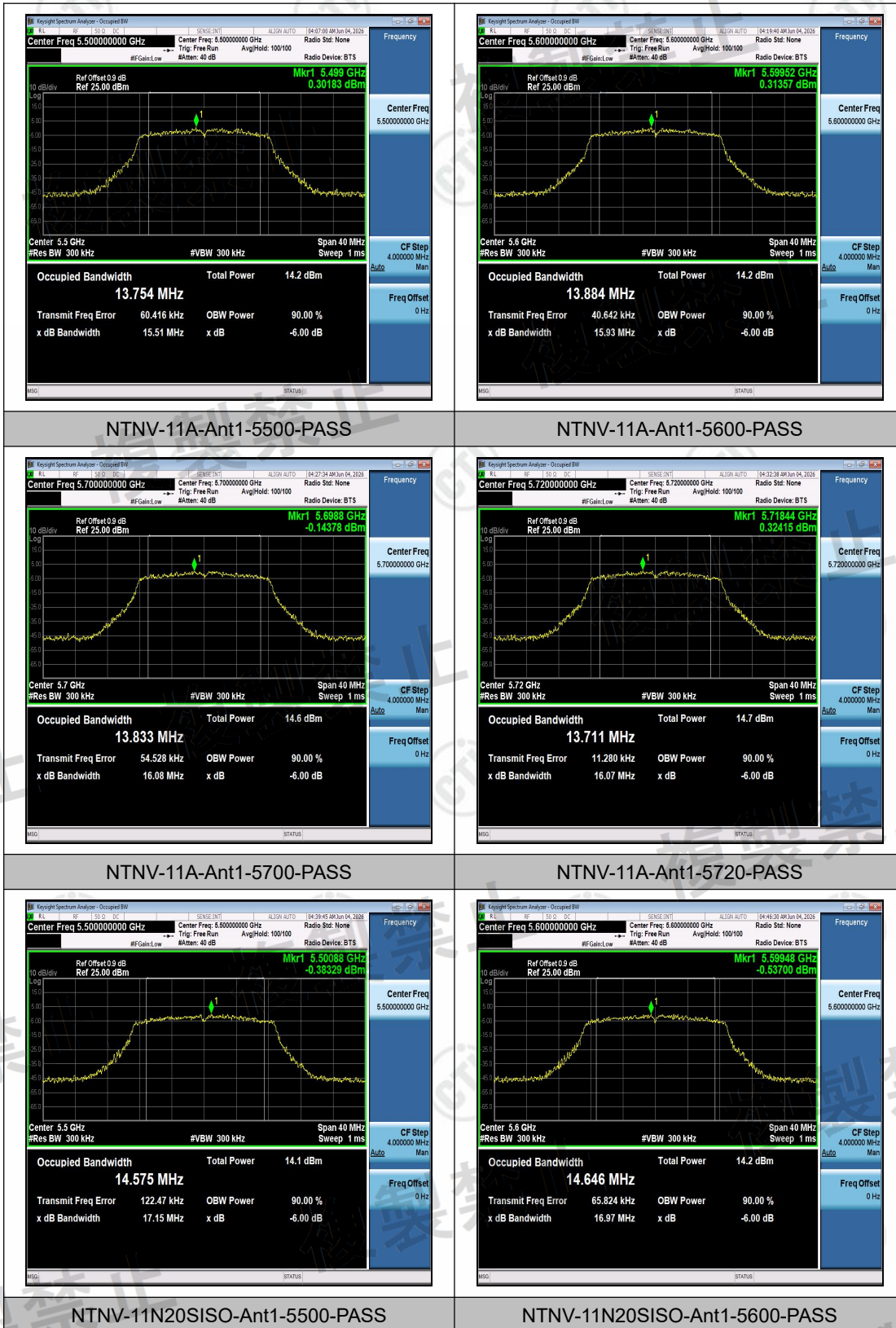


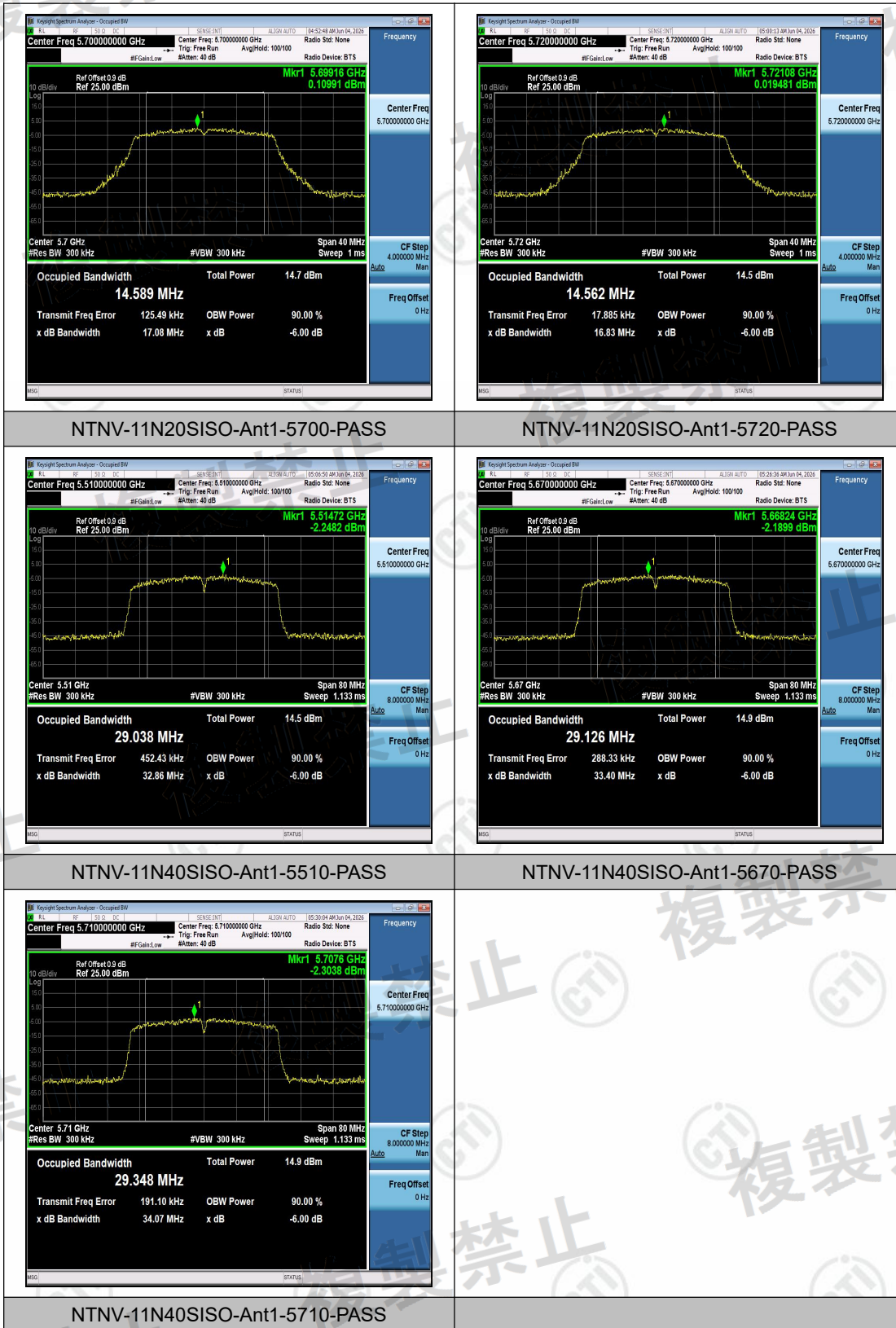
Appendix D: Spread Bandwidth

Test Result

Test Condition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5500	13.754	≥0.5	PASS
NTNV	11A	Ant1	5600	13.884	≥0.5	PASS
NTNV	11A	Ant1	5700	13.833	≥0.5	PASS
NTNV	11A	Ant1	5720	13.711	≥0.5	PASS
NTNV	11N20SISO	Ant1	5500	14.575	≥0.5	PASS
NTNV	11N20SISO	Ant1	5600	14.646	≥0.5	PASS
NTNV	11N20SISO	Ant1	5700	14.589	≥0.5	PASS
NTNV	11N20SISO	Ant1	5720	14.562	≥0.5	PASS
NTNV	11N40SISO	Ant1	5510	29.038	≥0.5	PASS
NTNV	11N40SISO	Ant1	5670	29.126	≥0.5	PASS
NTNV	11N40SISO	Ant1	5710	29.348	≥0.5	PASS

Test Graphs





Appendix E: Unwanted Emission Strength

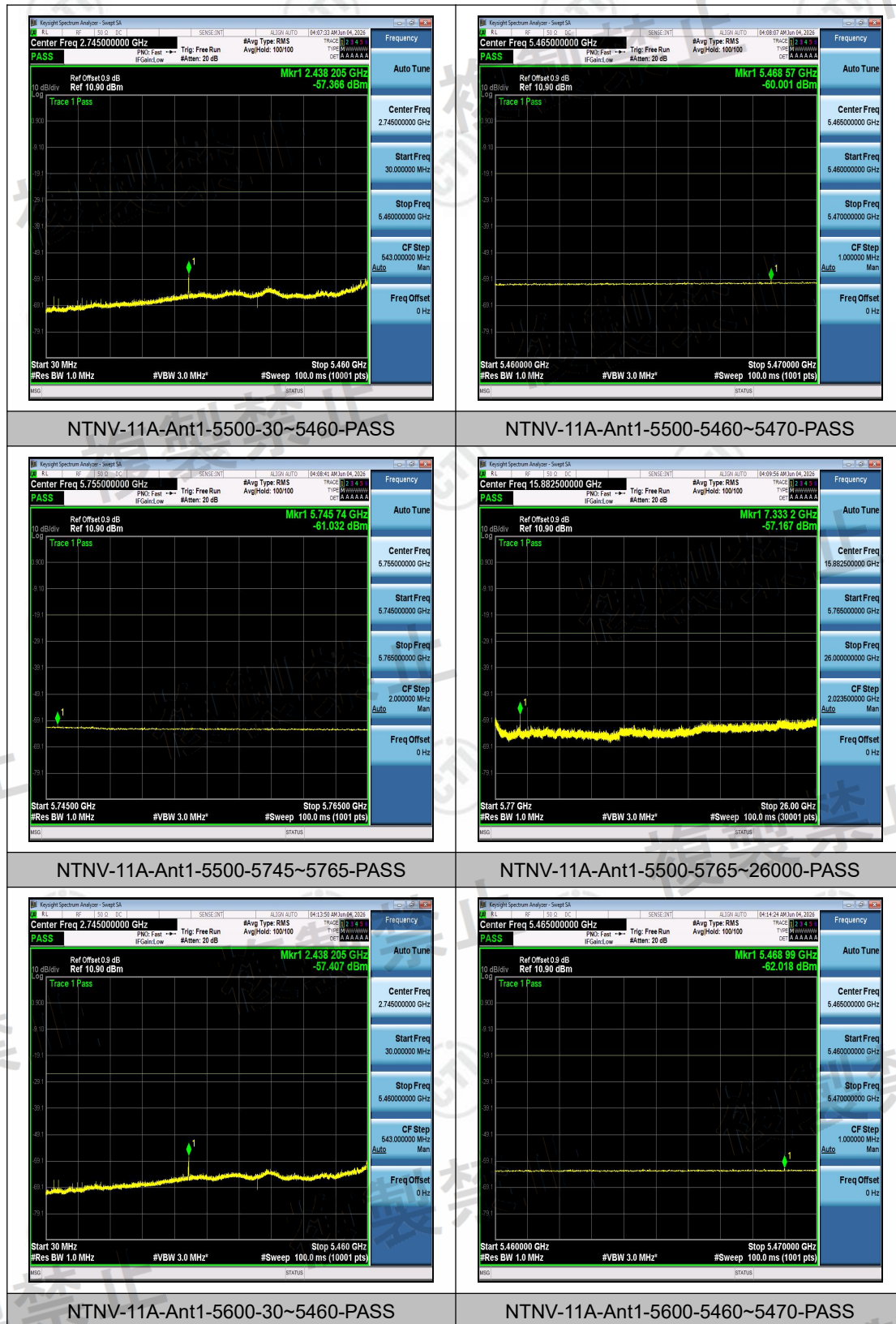
Test Result

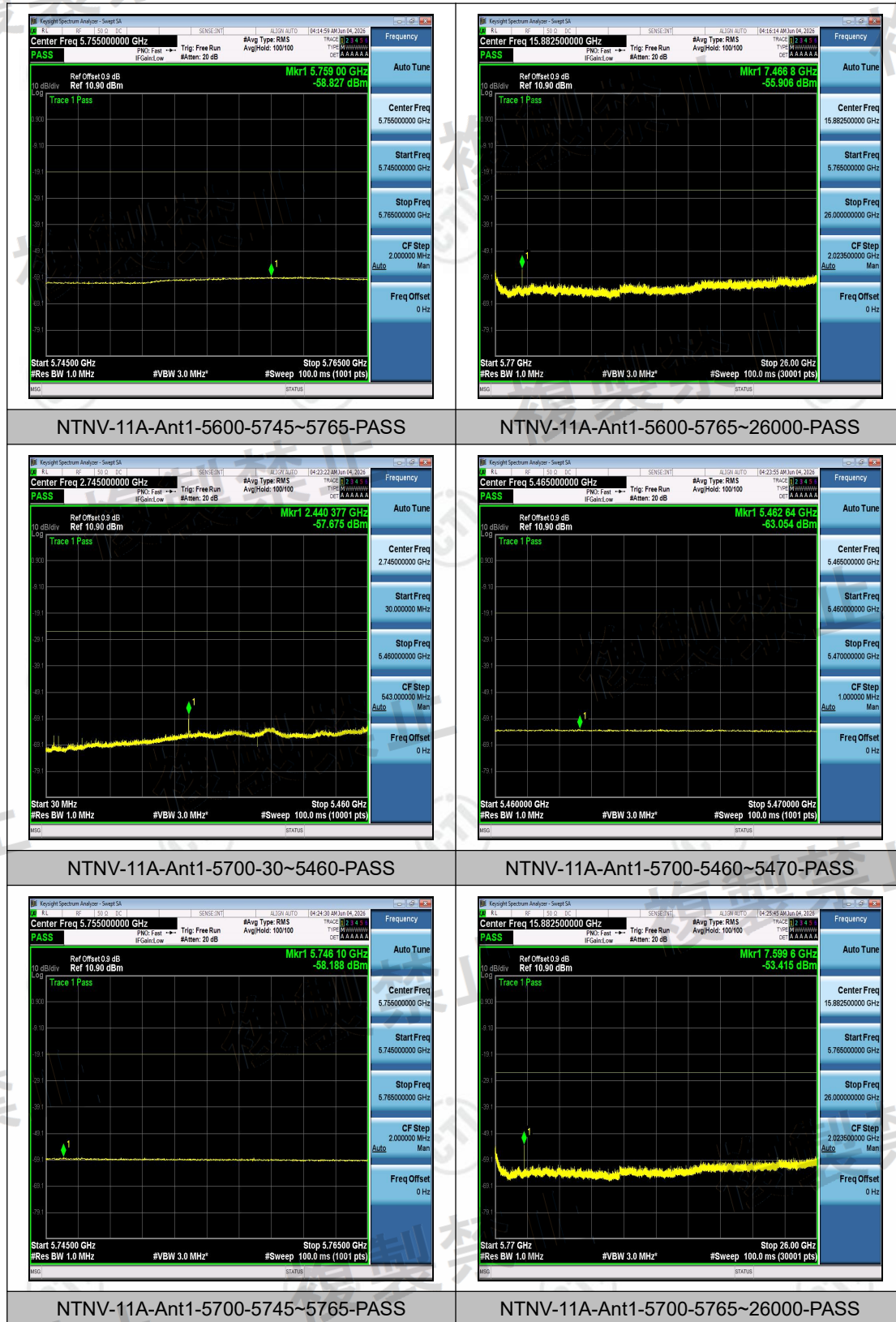
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [MHz]	Result [dBm/MHz]	EIRP[dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	11A	Ant1	5500	30~5460	2438.21	-57.37	-54.37	0.00366	≤2.5	PASS
NTNV	11A	Ant1	5500	5460~5470	5468.57	-60.00	-57.00	0.00200	≤12.5	PASS
NTNV	11A	Ant1	5500	5745~5765	5745.74	-61.03	-58.03	0.00157	≤12.5	PASS
NTNV	11A	Ant1	5500	5765~26000	7333.21	-57.17	-54.17	0.00383	≤2.5	PASS
NTNV	11A	Ant1	5600	30~5460	2438.21	-57.41	-54.41	0.00362	≤2.5	PASS
NTNV	11A	Ant1	5600	5460~5470	5468.99	-62.02	-59.02	0.00125	≤12.5	PASS
NTNV	11A	Ant1	5600	5745~5765	5759.00	-58.83	-55.83	0.00261	≤12.5	PASS
NTNV	11A	Ant1	5600	5765~26000	7466.76	-55.91	-52.91	0.00512	≤2.5	PASS
NTNV	11A	Ant1	5700	30~5460	2440.38	-57.68	-54.68	0.00340	≤2.5	PASS
NTNV	11A	Ant1	5700	5460~5470	5462.64	-63.05	-60.05	0.00099	≤12.5	PASS
NTNV	11A	Ant1	5700	5745~5765	5746.10	-58.19	-55.19	0.00303	≤12.5	PASS
NTNV	11A	Ant1	5700	5765~26000	7599.64	-53.42	-50.42	0.00908	≤2.5	PASS
NTNV	11A	Ant1	5720	30~5460	2437.66	-57.77	-54.77	0.00333	≤2.5	PASS
NTNV	11A	Ant1	5720	5460~5470	5461.54	-63.79	-60.79	0.00083	≤12.5	PASS
NTNV	11A	Ant1	5720	5745~5765	5745.40	-57.18	-54.18	0.00382	≤12.5	PASS
NTNV	11A	Ant1	5720	5765~26000	7626.62	-53.23	-50.23	0.00948	≤2.5	PASS
NTNV	11N20SI SO	Ant1	5500	30~5460	2438.21	-58.12	-55.12	0.00308	≤2.5	PASS

NTNV	11N20SI SO	Ant1	5500	5460~5470	5468.43	-59.98	-56.98	0.002 00	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5500	5745~5765	5745.12	-61.24	-58.24	0.001 50	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5500	5765~26000	7333.21	-57.00	-54.00	0.003 98	≤2.5	PASS
NTNV	11N20SI SO	Ant1	5600	30~5460	2438.21	-56.31	-53.31	0.004 67	≤2.5	PASS
NTNV	11N20SI SO	Ant1	5600	5460~5470	5467.68	-62.19	-59.19	0.001 21	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5600	5745~5765	5759.78	-59.05	-56.05	0.002 48	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5600	5765~26000	7466.76	-55.18	-52.18	0.006 05	≤2.5	PASS
NTNV	11N20SI SO	Ant1	5700	30~5460	2436.03	-56.79	-53.79	0.004 18	≤2.5	PASS
NTNV	11N20SI SO	Ant1	5700	5460~5470	5462.13	-63.03	-60.03	0.000 99	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5700	5745~5765	5746.26	-58.11	-55.11	0.003 08	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5700	5765~26000	5782.54	-53.63	-50.63	0.008 65	≤2.5	PASS
NTNV	11N20SI SO	Ant1	5720	30~5460	2438.75	-56.48	-53.48	0.004 49	≤2.5	PASS
NTNV	11N20SI SO	Ant1	5720	5460~5470	5469.36	-63.57	-60.57	0.000 88	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5720	5745~5765	5745.26	-56.95	-53.95	0.004 03	≤12.5	PASS
NTNV	11N20SI SO	Ant1	5720	5765~26000	7626.62	-53.02	-50.02	0.009 95	≤2.5	PASS
NTNV	11N40SI SO	Ant1	5510	30~5460	2438.75	-56.28	-53.28	0.004 70	≤12.5	PASS
NTNV	11N40SI SO	Ant1	5510	5460~5470	5469.06	-57.49	-54.49	0.003 56	≤50	PASS
NTNV	11N40SI SO	Ant1	5510	5770~26000	7346.59	-55.94	-52.94	0.005 08	≤12.5	PASS
NTNV	11N40SI SO	Ant1	5670	30~5460	2438.21	-55.93	-52.93	0.005 09	≤12.5	PASS
NTNV	11N40SI SO	Ant1	5670	5460~5470	5462.40	-62.53	-59.53	0.001 11	≤50	PASS
NTNV	11N40SI	Ant1	5670	5770~26000	7559.68	-53.07	-50.07	0.009	≤12.5	PASS

	SO							84		
NTNV	11N40SI SO	Ant1	5710	30~5460	2438.75	-56.78	-53.78	0.004 19	≤12.5	PASS
NTNV	11N40SI SO	Ant1	5710	5460~5470	5468.14	-63.15	-60.15	0.000 97	≤50	PASS
NTNV	11N40SI SO	Ant1	5710	5770~26000	5782.81	-53.21	-50.21	0.009 53	≤12.5	PASS

Test Graphs







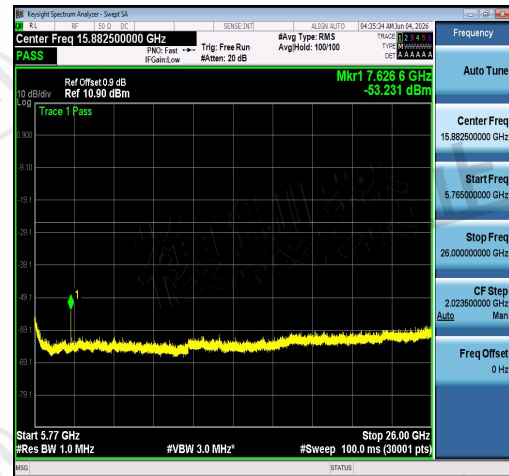
NTVN-11A-Ant1-5720-30~5460-PASS



NTVN-11A-Ant1-5720-5460~5470-PASS



NTVN-11A-Ant1-5720-5745~5765-PASS



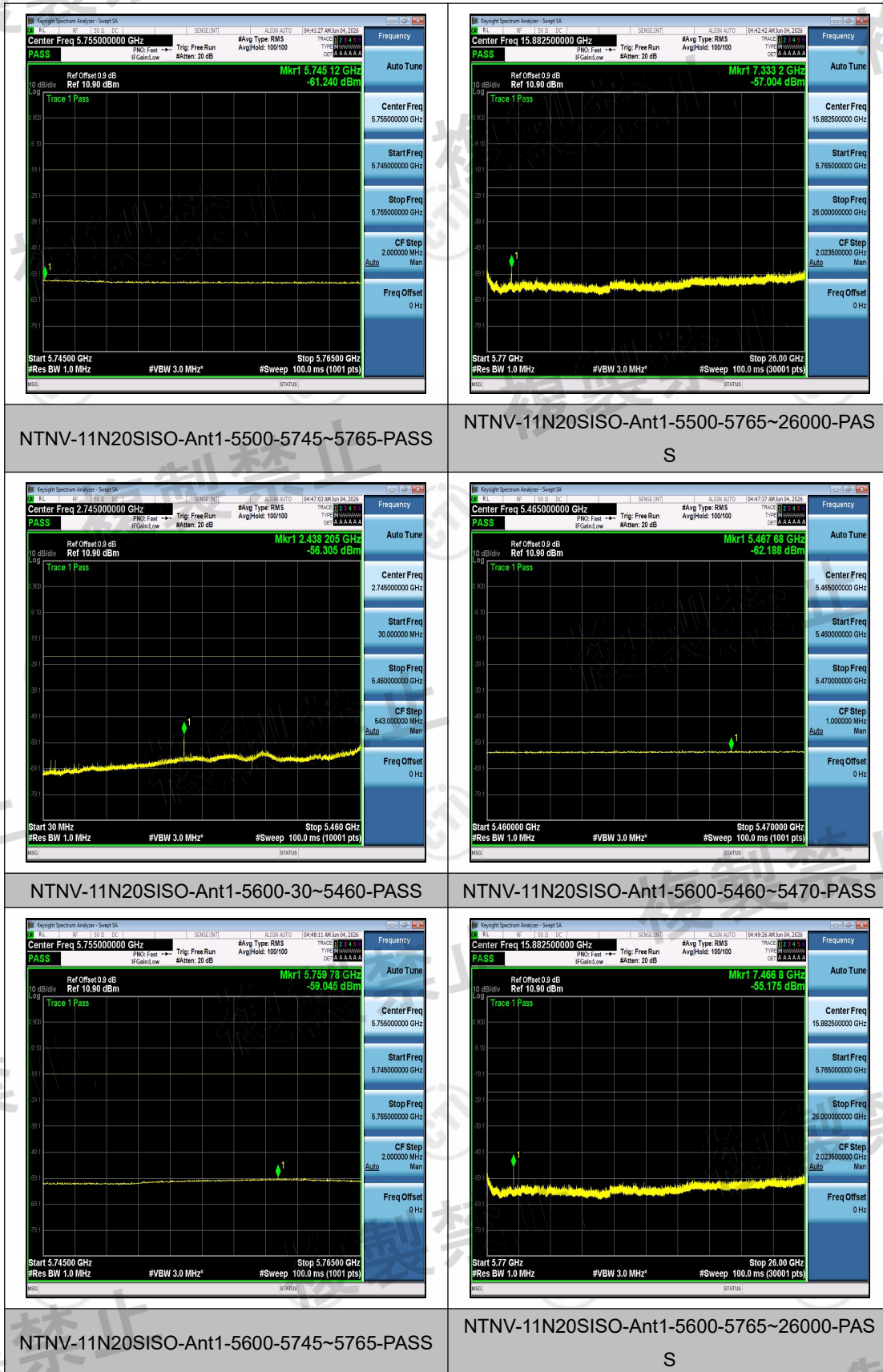
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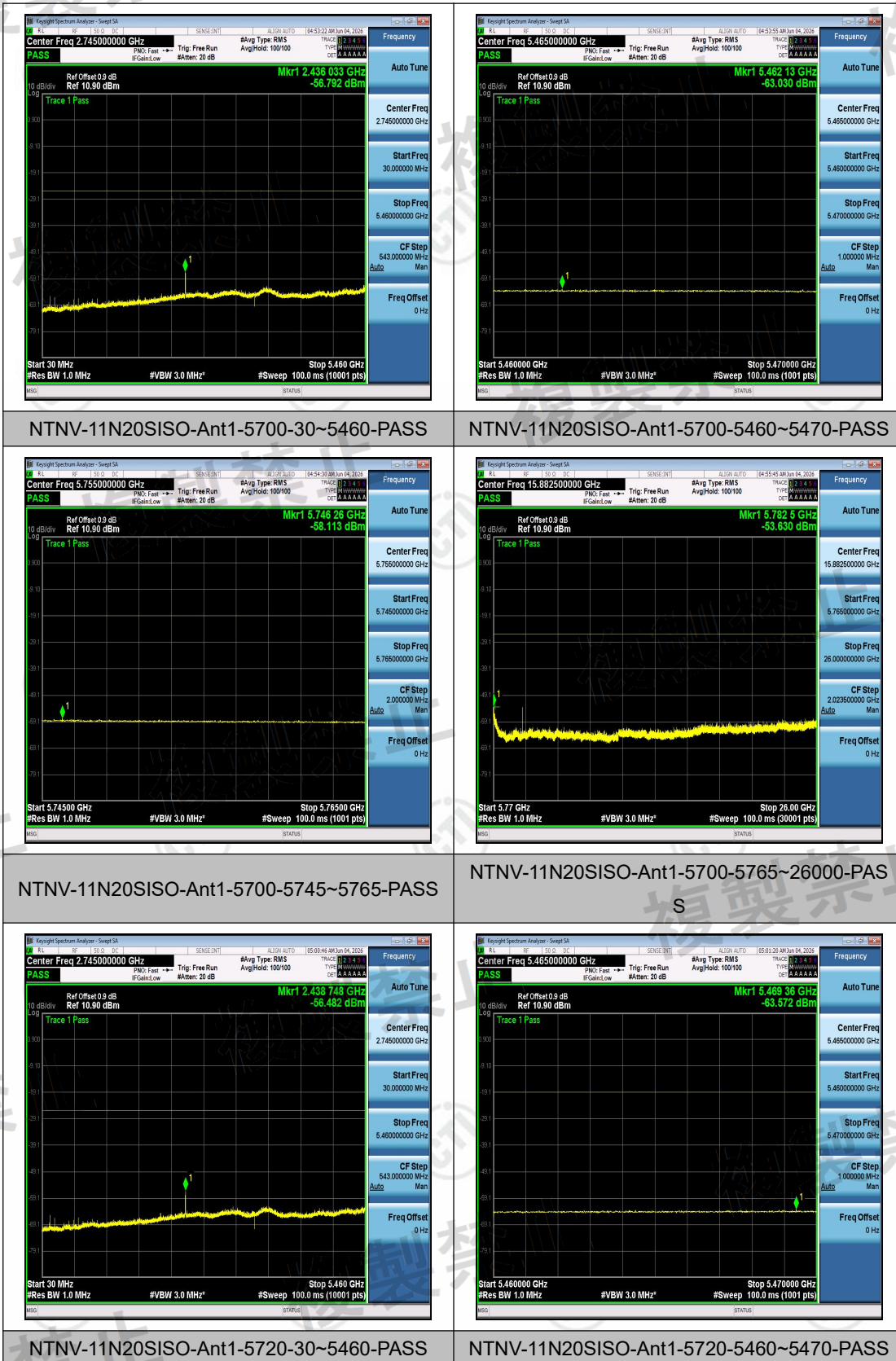


NTVN-11N20SISO-Ant1-5500-30~5460-PASS



NTVN-11N20SISO-Ant1-5500-5460~5470-PASS







NTNV-11N20SISO-Ant1-5720-5745~5765-PASS



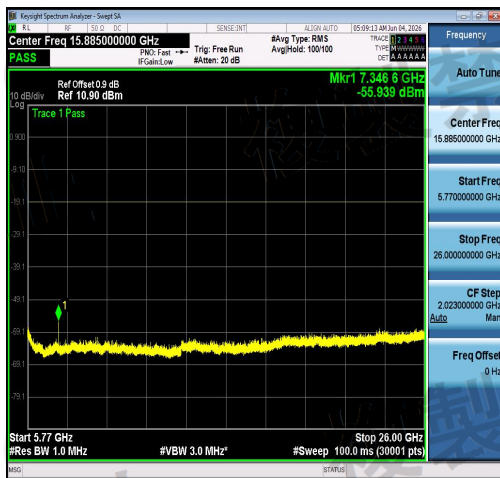
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NTNV-11N40SISO-Ant1-5510-5460-PASS



NTNV-11N40SISO-Ant1-5510-5460~5470-PASS



NTNV-11N40SISO-Ant1-5510-5770~26000-PASS



NTNV-11N40SISO-Ant1-5670-30~5460-PASS