

Appendix A3: Min emission bandwidth

Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
11A	Ant1	5785	16.360	5776.800	5793.160	0.5	PASS
11A	Ant1	5825	16.440	5816.760	5833.200	0.5	PASS
11N20SISO	Ant1	5745	16.600	5737.200	5753.800	0.5	PASS
11N20SISO	Ant1	5785	16.600	5777.200	5793.800	0.5	PASS
11N20SISO	Ant1	5825	16.600	5817.200	5833.800	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
11N40SISO	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS

Test Graphs B4

11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



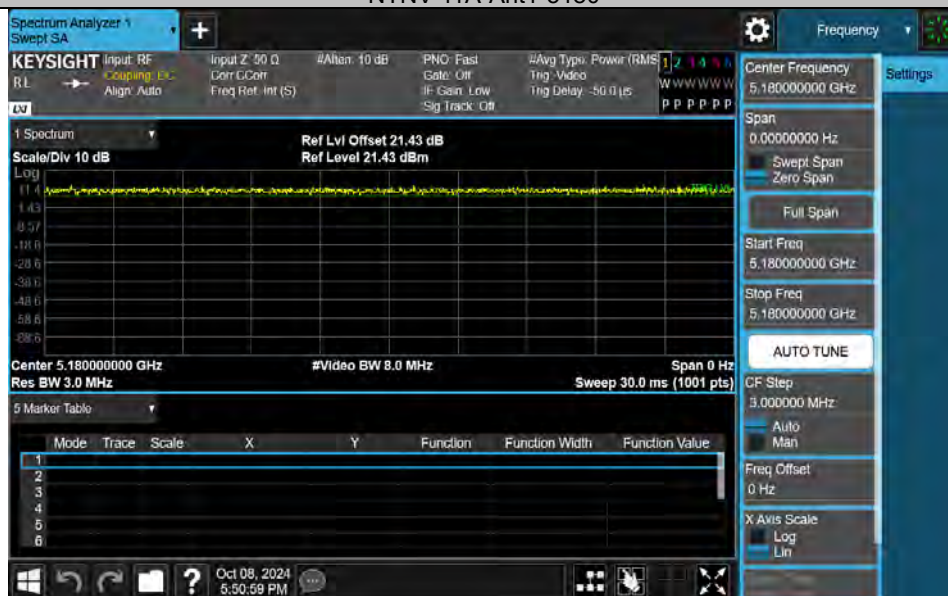
Appendix B: Duty Cycle

Test Result

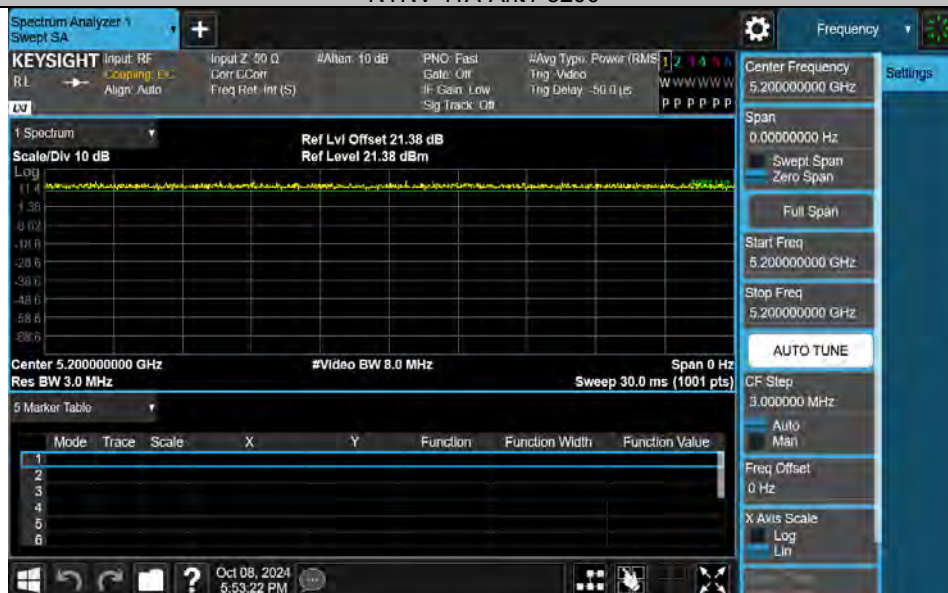
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	30.00	30.00	100.00
11A	Ant1	5200	30.00	30.00	100.00
11A	Ant1	5240	30.00	30.00	100.00
11A	Ant1	5745	30.00	30.00	100.00
11A	Ant1	5785	30.00	30.00	100.00
11A	Ant1	5825	30.00	30.00	100.00
11N20SISO	Ant1	5180	30.00	30.00	100.00
11N20SISO	Ant1	5200	30.00	30.00	100.00
11N20SISO	Ant1	5240	30.00	30.00	100.00
11N20SISO	Ant1	5745	30.00	30.00	100.00
11N20SISO	Ant1	5785	30.00	30.00	100.00
11N20SISO	Ant1	5825	30.00	30.00	100.00
11N40SISO	Ant1	5190	30.00	30.00	100.00
11N40SISO	Ant1	5230	30.00	30.00	100.00
11N40SISO	Ant1	5755	30.00	30.00	100.00
11N40SISO	Ant1	5795	30.00	30.00	100.00

Test Graphs

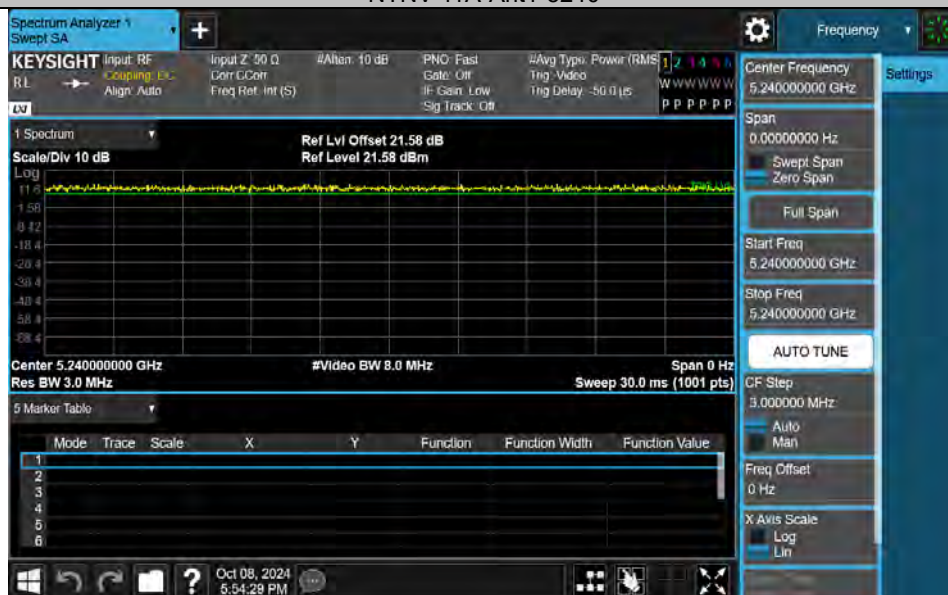
NTNV-11A-Ant1-5180



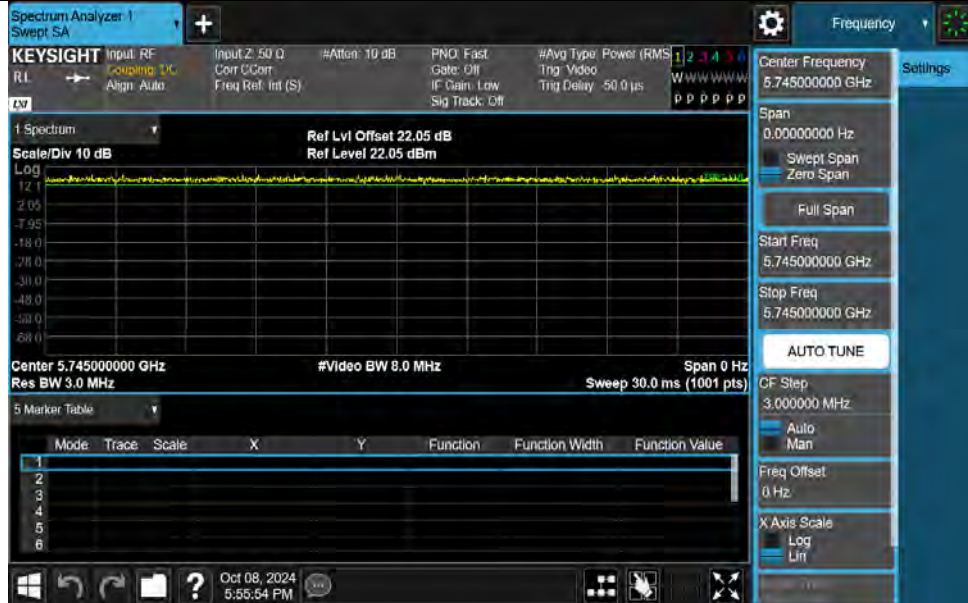
NTNV-11A-Ant1-5200



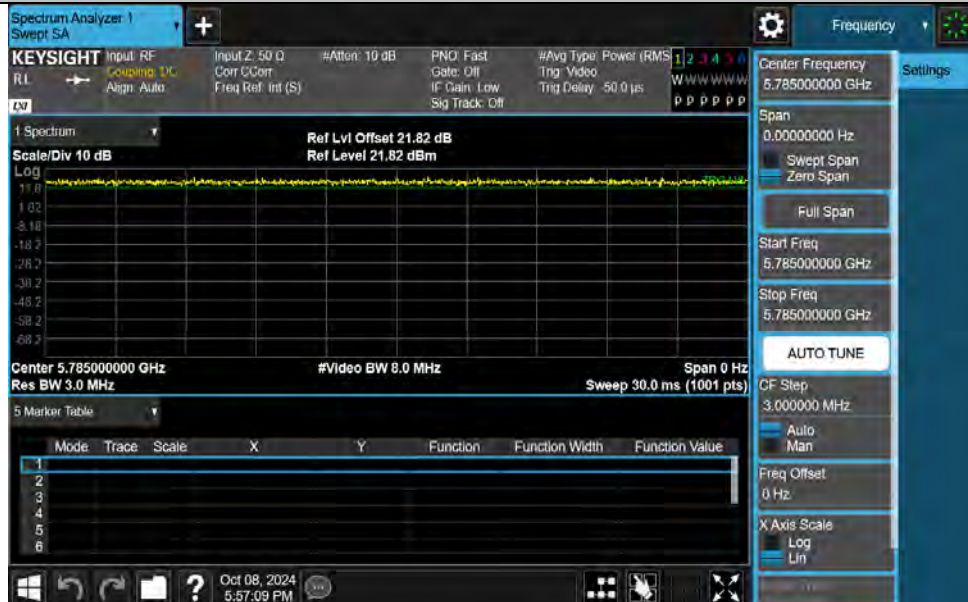
NTNV-11A-Ant1-5240



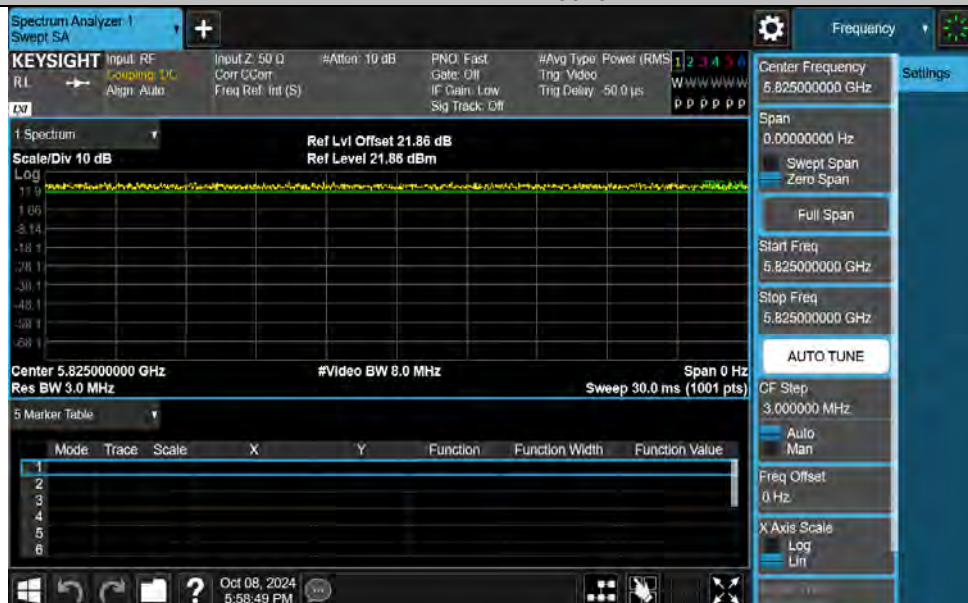
NTNV-11A-Ant1-5745



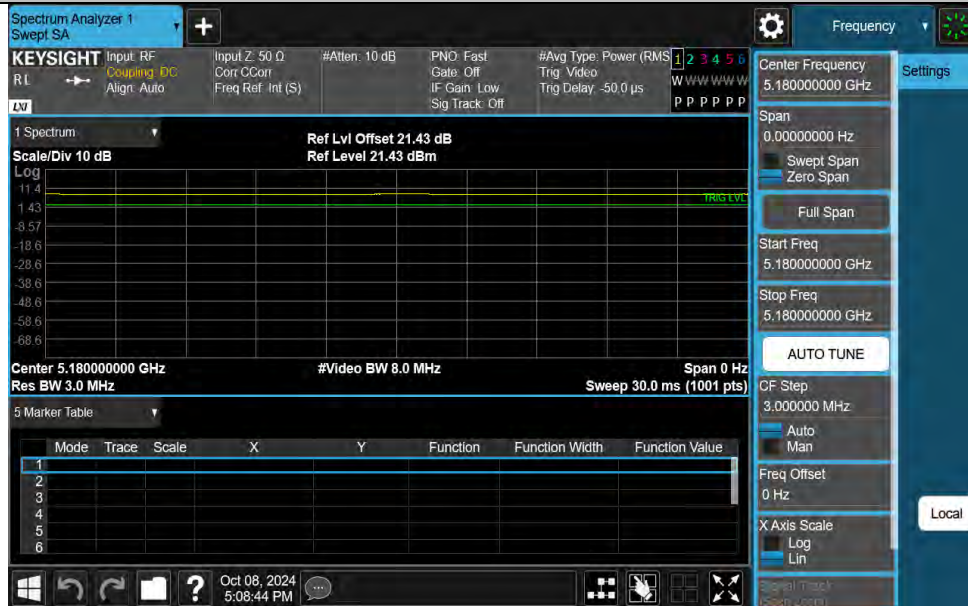
NTNV-11A-Ant1-5785



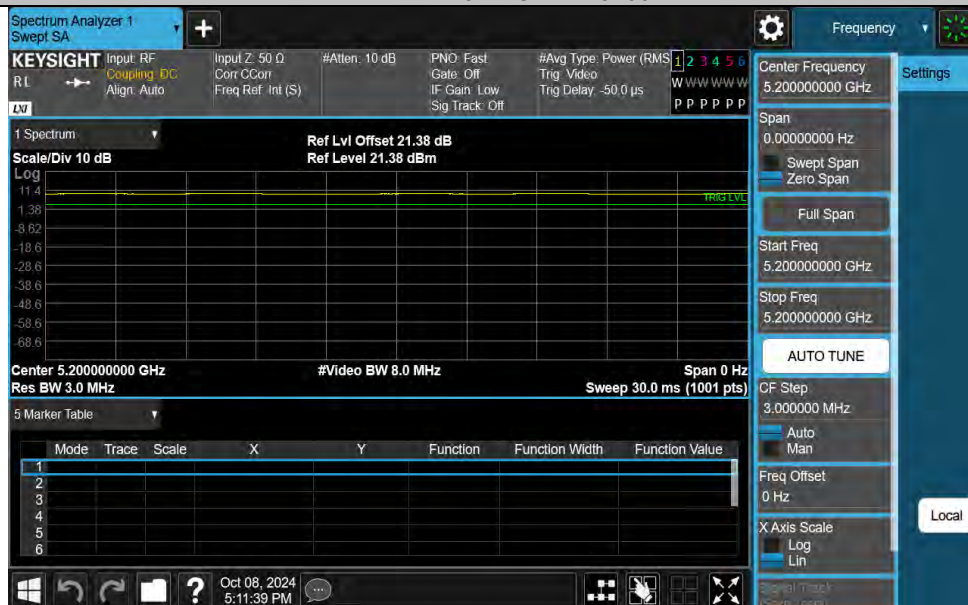
NTNV-11A-Ant1-5825



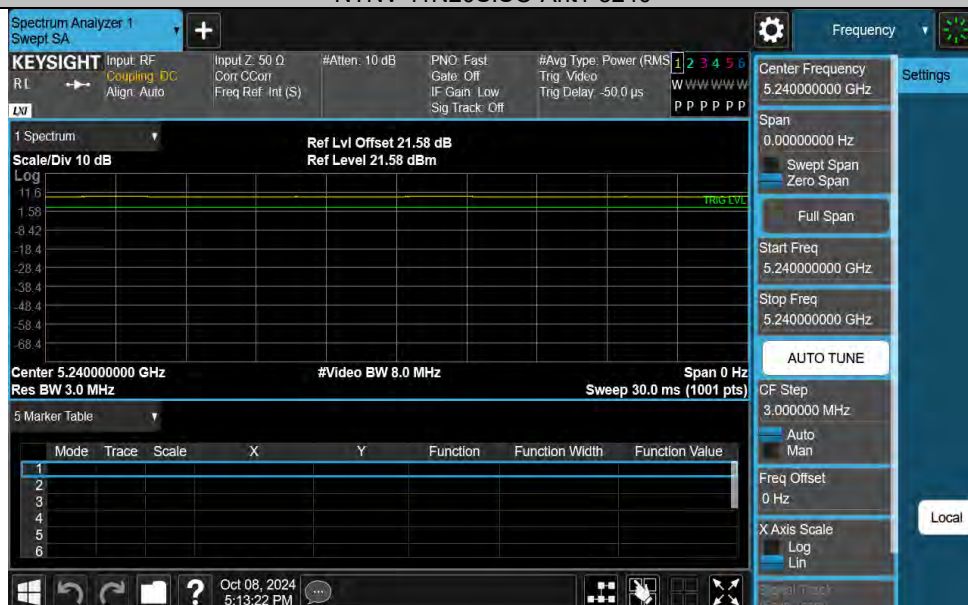
NTNV-11N20SISO-Ant1-5180



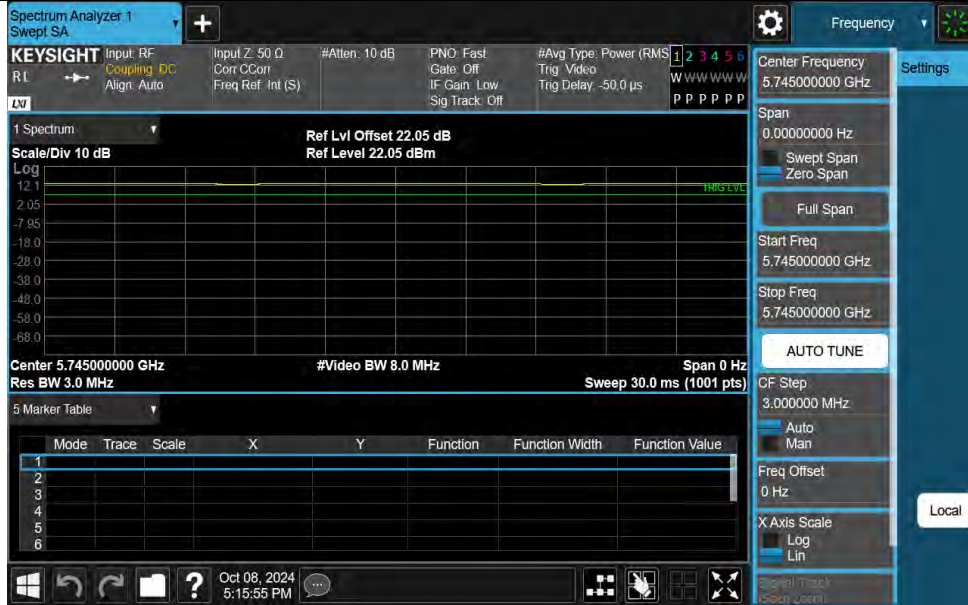
NTNV-11N20SISO-Ant1-5200



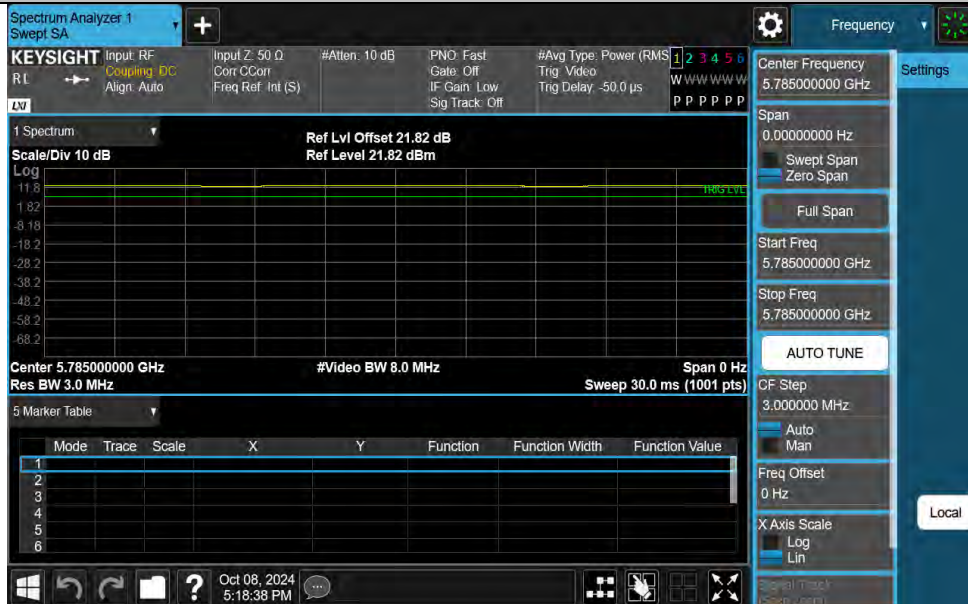
NTNV-11N20SISO-Ant1-5240



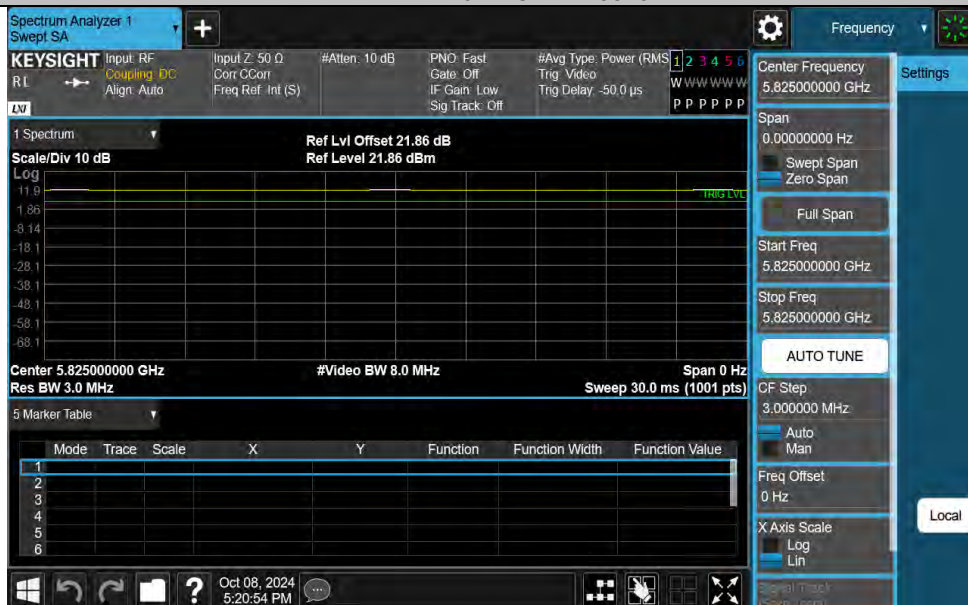
NTNV-11N20SISO-Ant1-5745



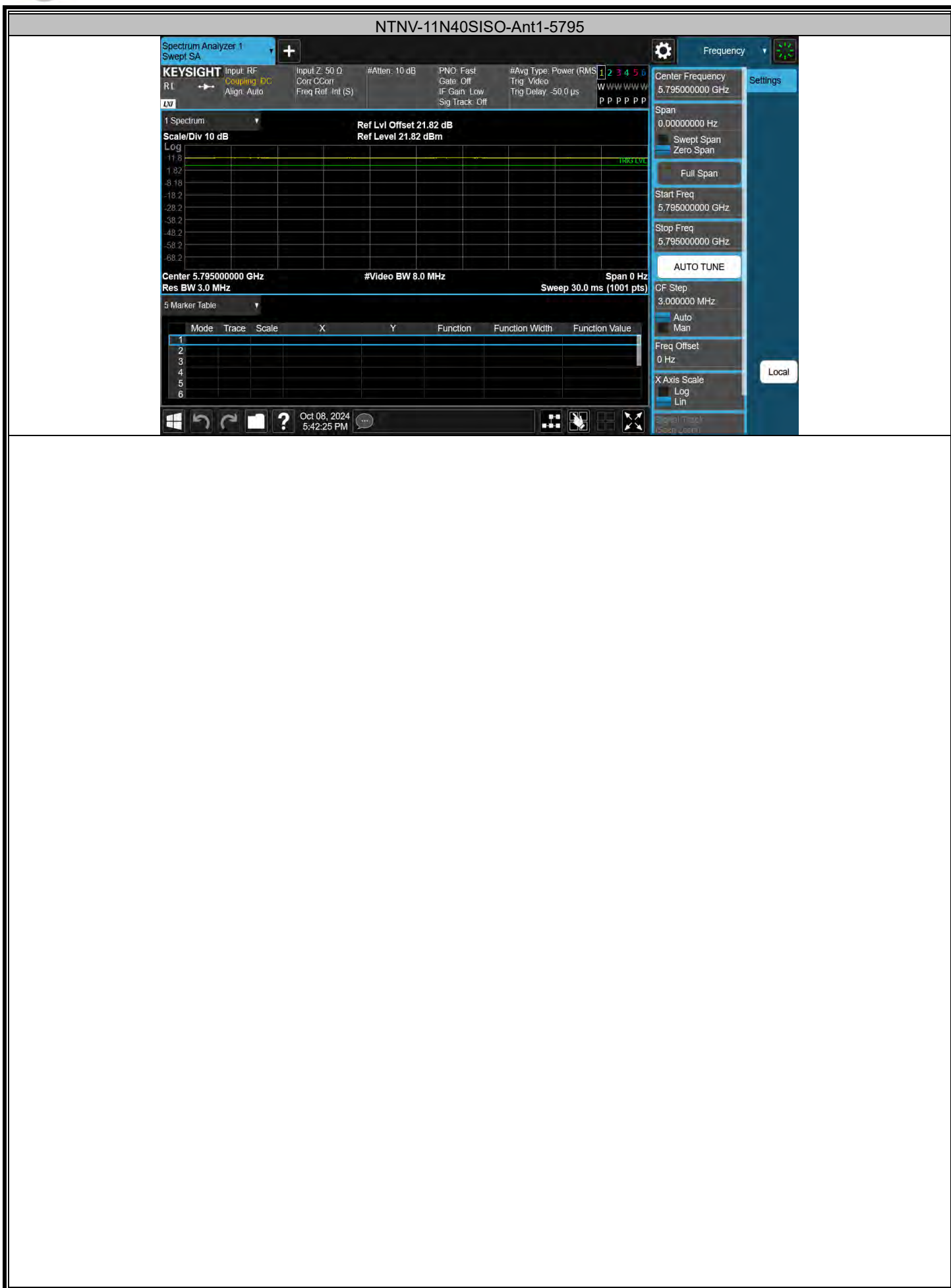
NTNV-11N20SISO-Ant1-5785



NTNV-11N20SISO-Ant1-5825







Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.27	100.00	0.00	12.27	≤23.98	PASS
11A	Ant1	5200	12.13	100.00	0.00	12.13	≤23.98	PASS
11A	Ant1	5240	11.75	100.00	0.00	11.75	≤23.98	PASS
11A	Ant1	5745	15.41	100.00	0.00	15.41	≤30.00	PASS
11A	Ant1	5785	14.92	100.00	0.00	14.92	≤30.00	PASS
11A	Ant1	5825	14.12	100.00	0.00	14.12	≤30.00	PASS
11N20SISO	Ant1	5180	12.42	100.00	0.00	12.42	≤23.98	PASS
11N20SISO	Ant1	5200	12.23	100.00	0.00	12.23	≤23.98	PASS
11N20SISO	Ant1	5240	11.82	100.00	0.00	11.82	≤23.98	PASS
11N20SISO	Ant1	5745	15.60	100.00	0.00	15.60	≤30.00	PASS
11N20SISO	Ant1	5785	15.22	100.00	0.00	15.22	≤30.00	PASS
11N20SISO	Ant1	5825	14.63	100.00	0.00	14.63	≤30.00	PASS
11N40SISO	Ant1	5190	13.20	100.00	0.00	13.20	≤23.98	PASS
11N40SISO	Ant1	5230	13.11	100.00	0.00	13.11	≤23.98	PASS
11N40SISO	Ant1	5755	14.77	100.00	0.00	14.77	≤30.00	PASS
11N40SISO	Ant1	5795	15.85	100.00	0.00	15.85	≤30.00	PASS

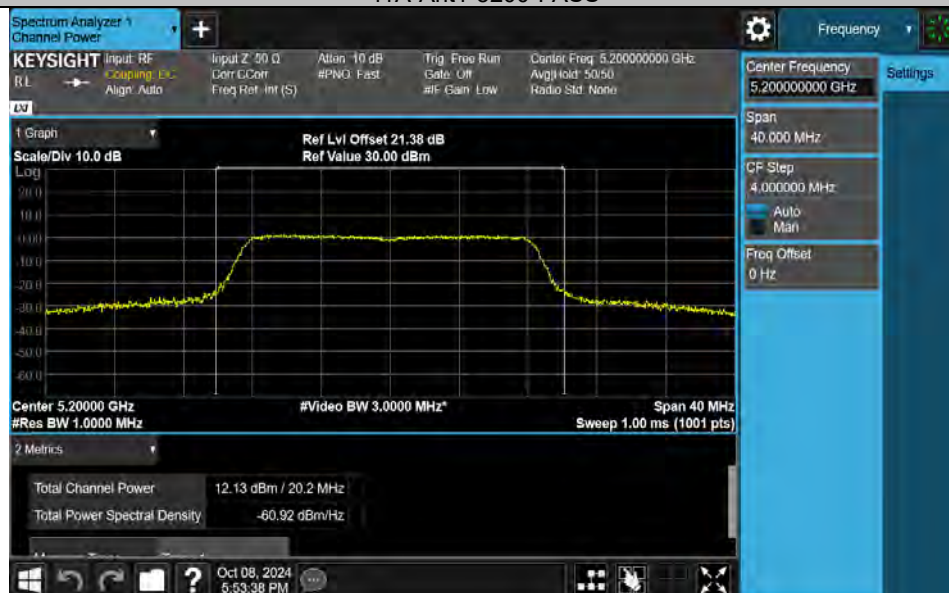
Note: The Duty Cycle Factor is compensated in the graph.

Test Graphs Channel Power

11A-Ant1-5180-PASS



11A-Ant1-5200-PASS



11A-Ant1-5240-PASS



11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5200-PASS



11N20SISO-Ant1-5240-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5190-PASS

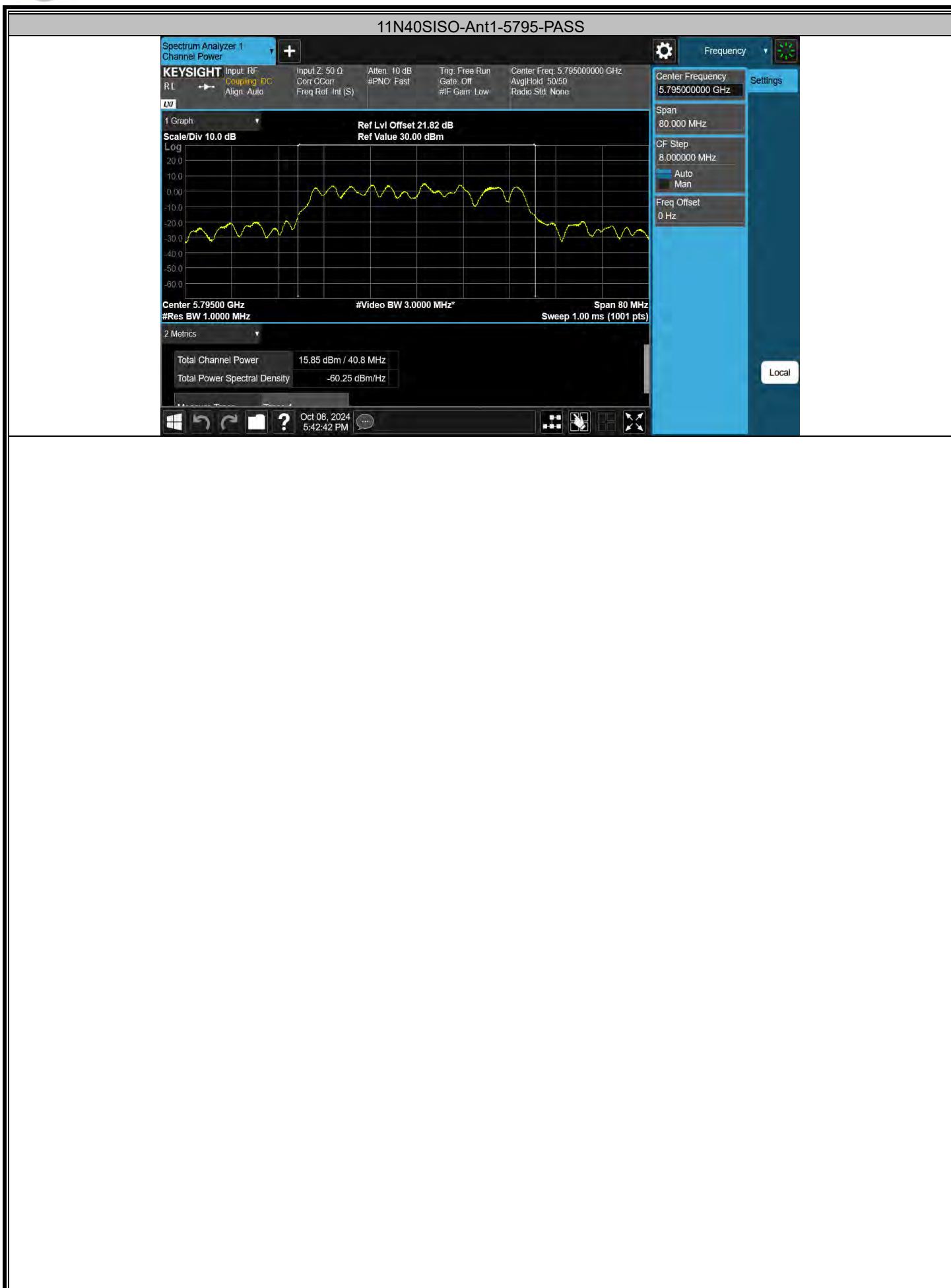


11N40SISO-Ant1-5230-PASS



11N40SISO-Ant1-5755-PASS





Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.88	≤11.00	PASS
11A	Ant1	5200	0.79	≤11.00	PASS
11A	Ant1	5240	0.36	≤11.00	PASS
11A	Ant1	5745	0.68	≤30.00	PASS
11A	Ant1	5785	0.26	≤30.00	PASS
11A	Ant1	5825	-0.24	≤30.00	PASS
11N20SISO	Ant1	5180	1.64	≤11.00	PASS
11N20SISO	Ant1	5200	1.73	≤11.00	PASS
11N20SISO	Ant1	5240	1.35	≤11.00	PASS
11N20SISO	Ant1	5745	2.98	≤30.00	PASS
11N20SISO	Ant1	5785	2.67	≤30.00	PASS
11N20SISO	Ant1	5825	2.20	≤30.00	PASS
11N40SISO	Ant1	5190	2.01	≤11.00	PASS
11N40SISO	Ant1	5230	1.81	≤11.00	PASS
11N40SISO	Ant1	5755	2.23	≤30.00	PASS
11N40SISO	Ant1	5795	3.37	≤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.

Test Graphs

11A-Ant1-5180-PASS



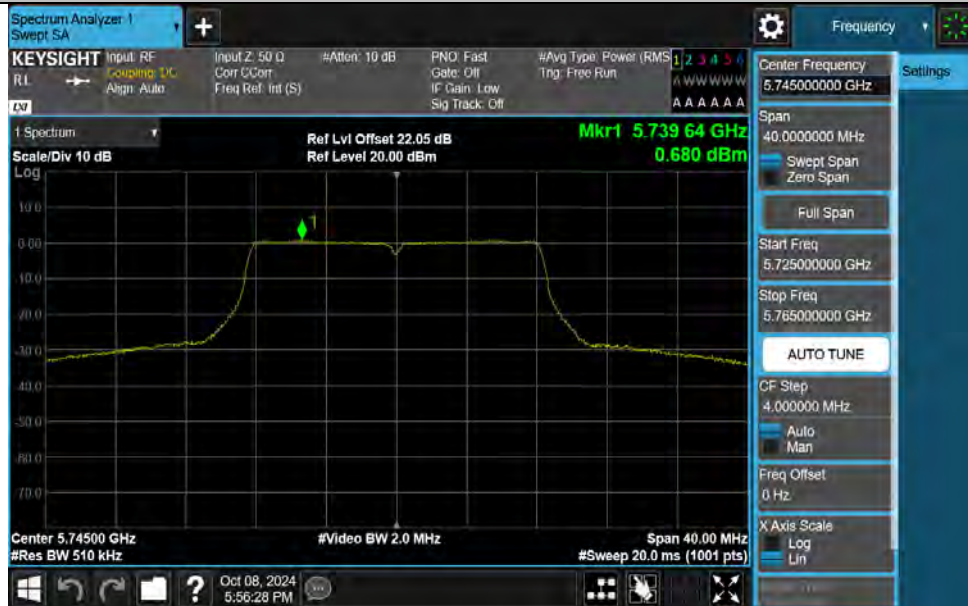
11A-Ant1-5200-PASS



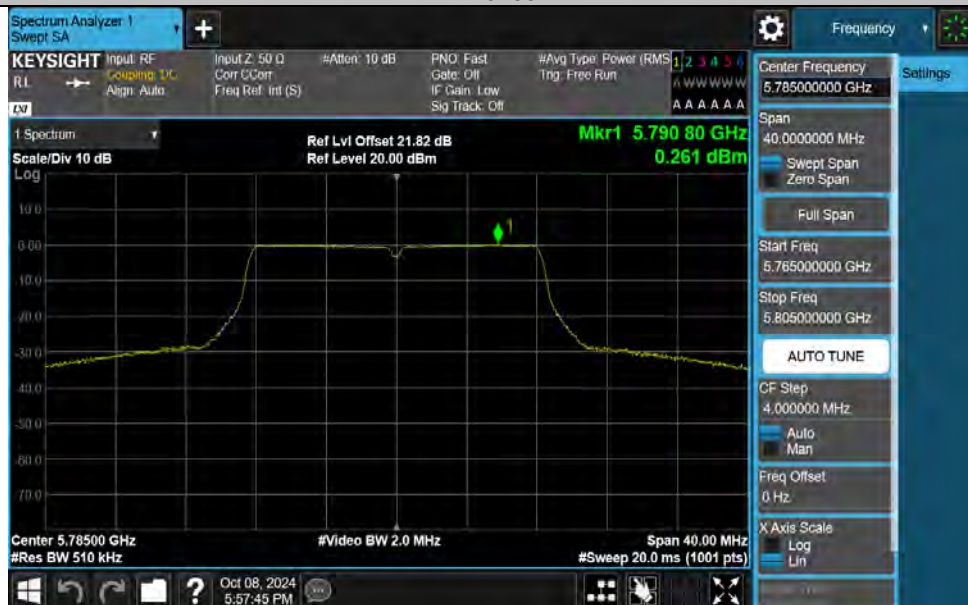
11A-Ant1-5240-PASS



11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5200-PASS



11N20SISO-Ant1-5240-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5190-PASS

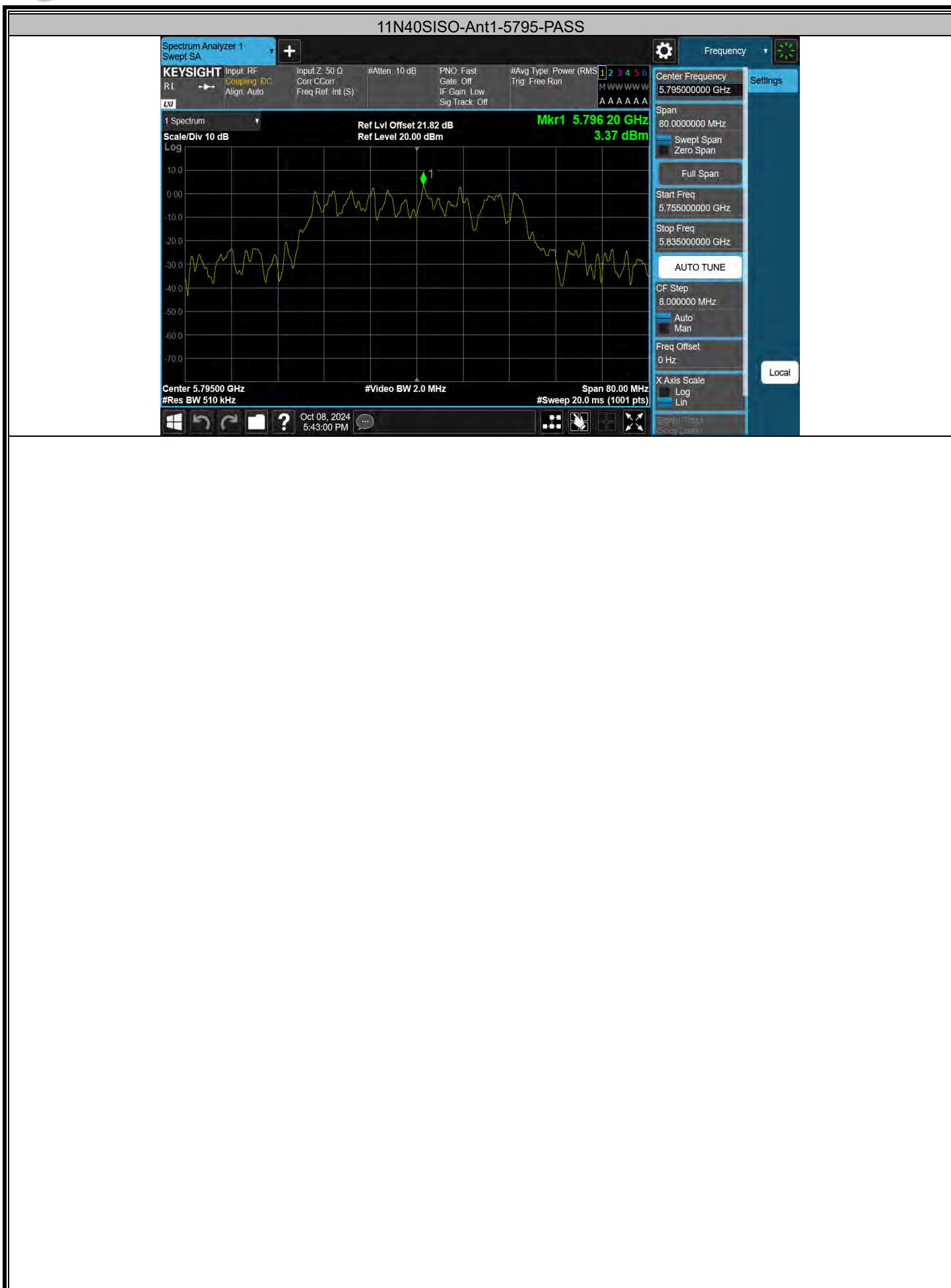


11N40SISO-Ant1-5230-PASS



11N40SISO-Ant1-5755-PASS





Appendix E: Band edge measurements

Test Result B4

Test Mode	Antenna	Ch Name	Frequency [MHz]	Freq Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-19.94	≤19.23	PASS
11A	Ant1	Low	5745	5700~5720	-22.47	≤15.01	PASS
11A	Ant1	Low	5745	5650~5700	-38.52	≤-25.85	PASS
11A	Ant1	Low	5745	5645~5650	-39.41	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-26.35	≤20.03	PASS
11A	Ant1	High	5825	5855~5875	-29.57	≤13.76	PASS
11A	Ant1	High	5825	5875~5925	-37.76	≤-25.21	PASS
11A	Ant1	High	5825	5925~5935	-37.67	≤-27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-15.12	≤17.91	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-23.05	≤14.53	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-38.61	≤-26.96	PASS
11N20SISO	Ant1	Low	5745	5645~5650	-38.57	≤-27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-24.18	≤18.50	PASS
11N20SISO	Ant1	High	5825	5855~5875	-25.36	≤13.35	PASS
11N20SISO	Ant1	High	5825	5875~5925	-37.91	≤-26.01	PASS
11N20SISO	Ant1	High	5825	5925~5935	-37.57	≤-27	PASS
11N40SISO	Ant1	Low	5755	5720~5725	-21.47	≤15.74	PASS
11N40SISO	Ant1	Low	5755	5700~5720	-20.27	≤13.24	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-36.5	≤-25.90	PASS
11N40SISO	Ant1	Low	5755	5645~5650	-37.78	≤-27	PASS
11N40SISO	Ant1	High	5795	5850~5855	-32.74	≤15.66	PASS
11N40SISO	Ant1	High	5795	5855~5875	-30.63	≤12.14	PASS
11N40SISO	Ant1	High	5795	5875~5925	-38.91	≤-26.59	PASS
11N40SISO	Ant1	High	5795	5925~5935	-37.63	≤-27	PASS

Test Graphs B4

11A-Ant1-5745-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



Appendix F: Frequency Stability

Test Result

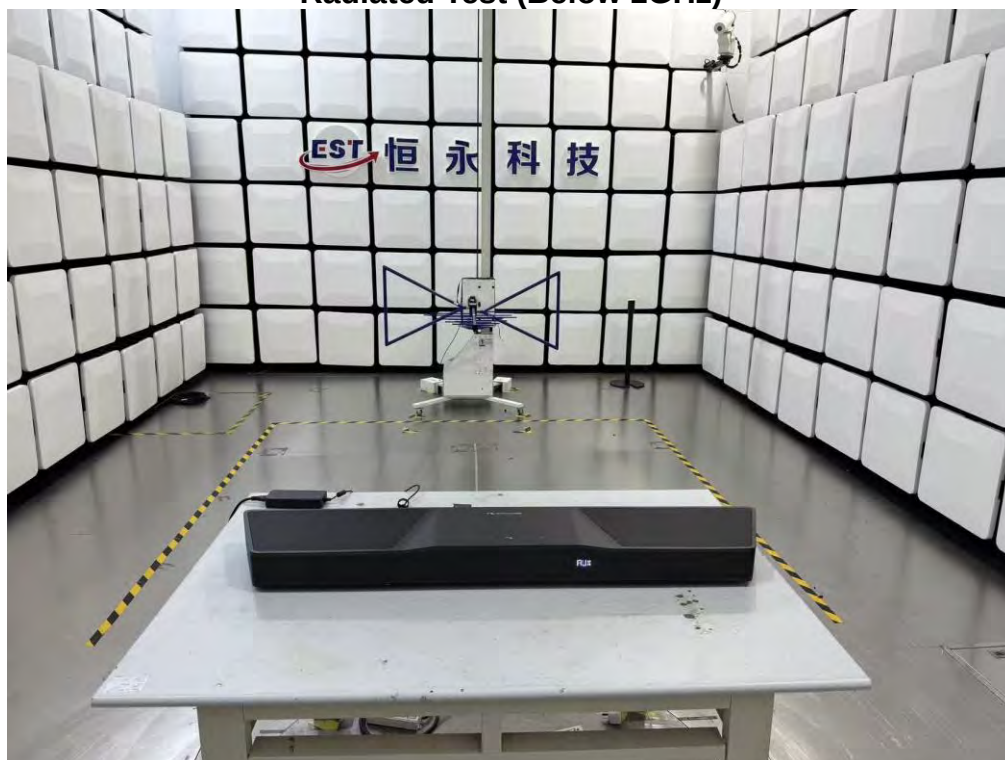
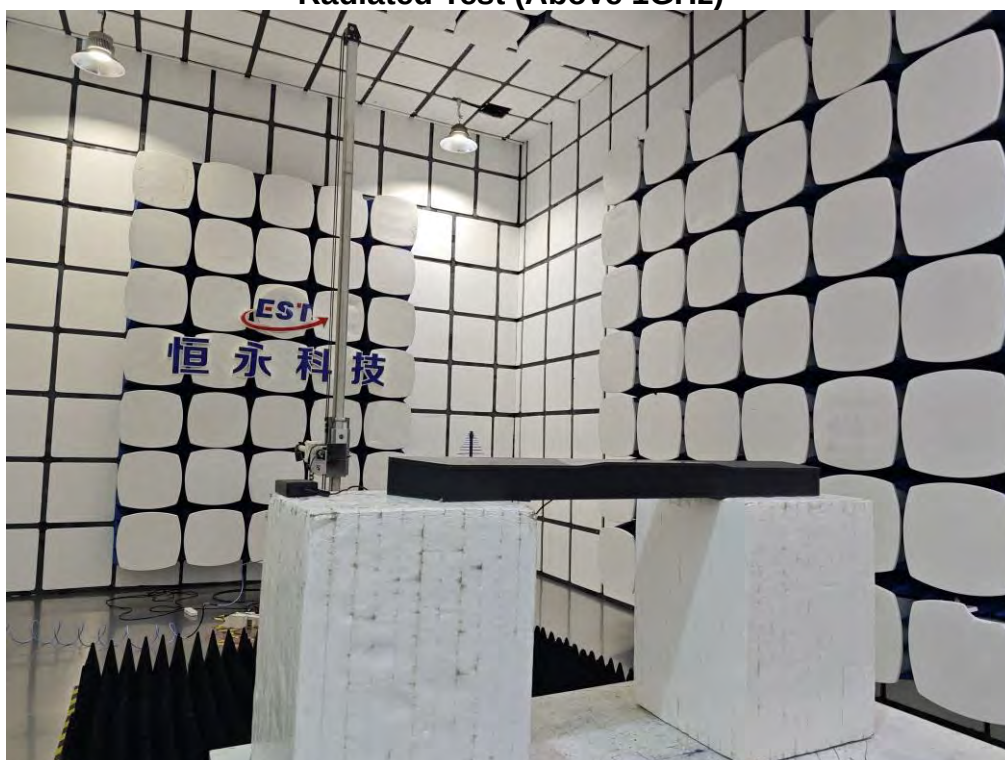
Test Mode	Antenna	Frequency[M Hz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5180	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5180	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
11A	Ant1	5745	LV	NT	20000.00	3.481288	20	PASS
11A	Ant1	5745	HV	NT	-40000.00	-6.962576	20	PASS

Test Mode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	-10	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	50	-20000.00	-3.861004	20	PASS
11A	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
11A	Ant1	5745	NV	-20	20000.00	3.481288	20	PASS
11A	Ant1	5745	NV	-10	-20000.00	-3.481288	20	PASS
11A	Ant1	5745	NV	0	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	20	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	40	-20000.00	-3.481288	20	PASS
11A	Ant1	5745	NV	50	0.00	0.000000	20	PASS

11. TEST SETUP PHOTO

Conducted Test



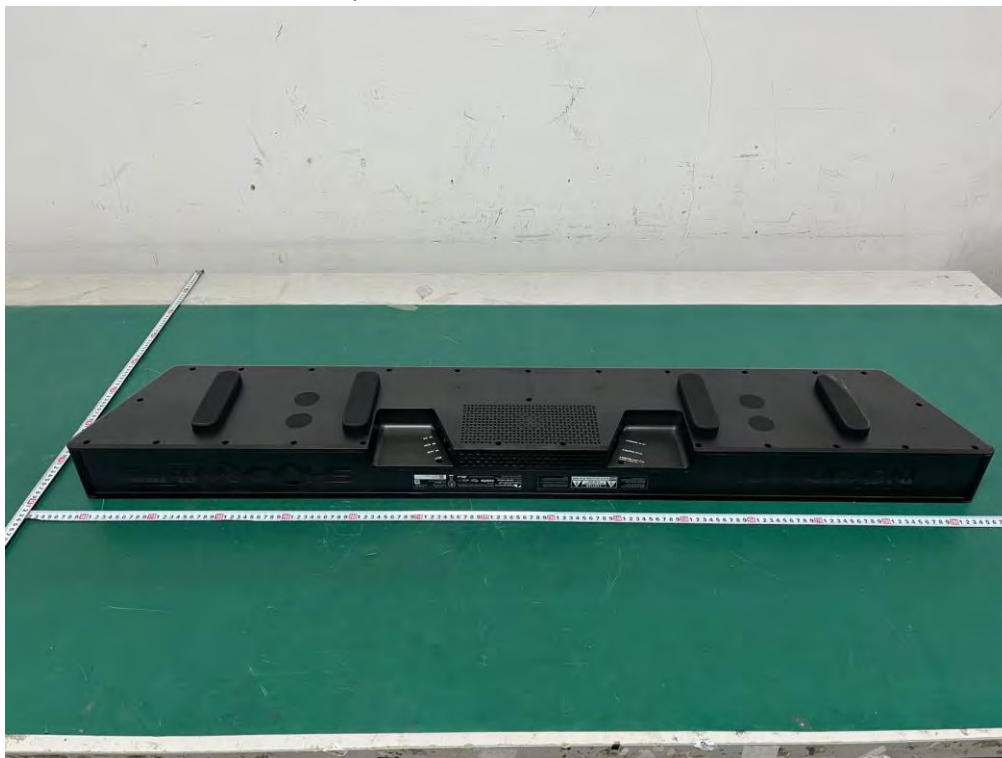
Radiated Test (Below 1GHz)**Radiated Test (Above 1GHz)**

12. EUT PHOTO

External Photos
M/N: Shockwafe Wireless



External Photos
M/N: Shockwafe Wireless



External Photos
M/N: Shockwafe Wireless



External Photos M/N: Shockwafe Wireless



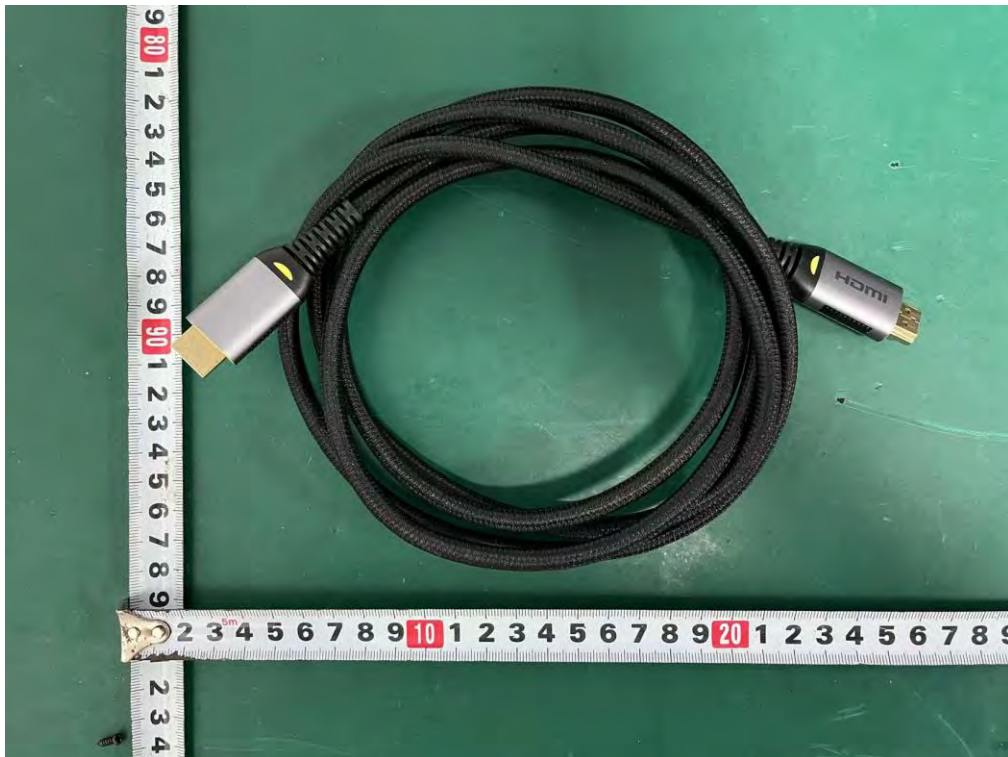
External Photos

M/N: Shockwafe Wireless



External Photos

M/N: Shockwafe Wireless



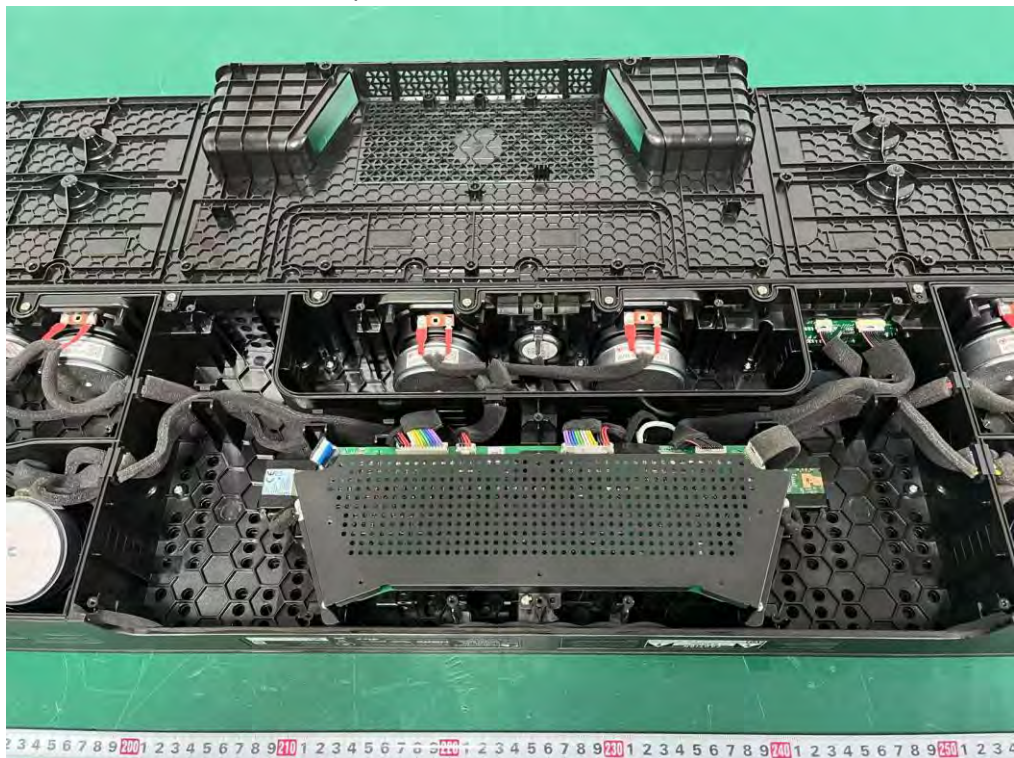
External Photos
M/N: Shockwafe Wireless



Internal Photos
M/N: Shockwafe Wireless



Internal Photos
M/N: Shockwafe Wireless



Internal Photos
M/N: Shockwafe Wireless



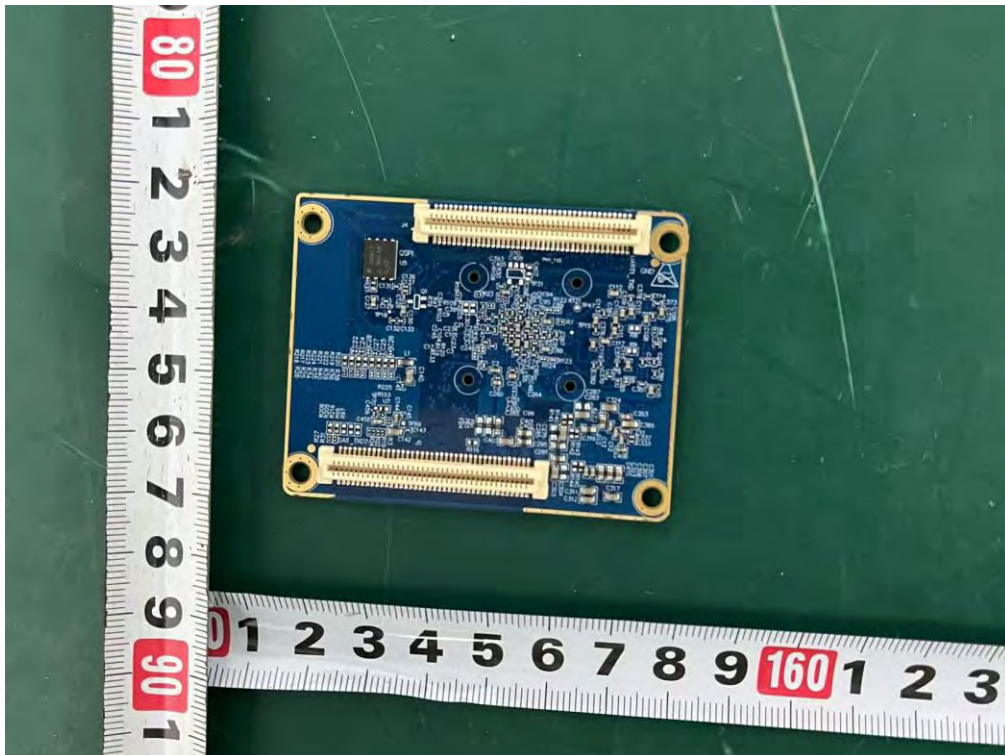
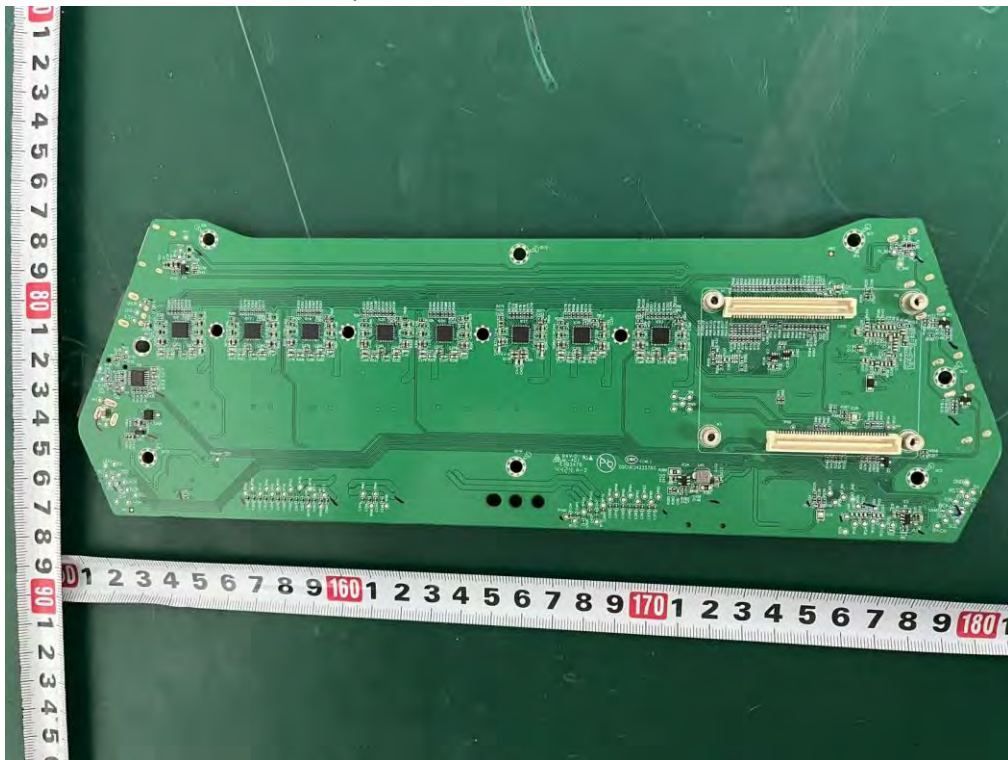
Internal Photos M/N: Shockwafe Wireless



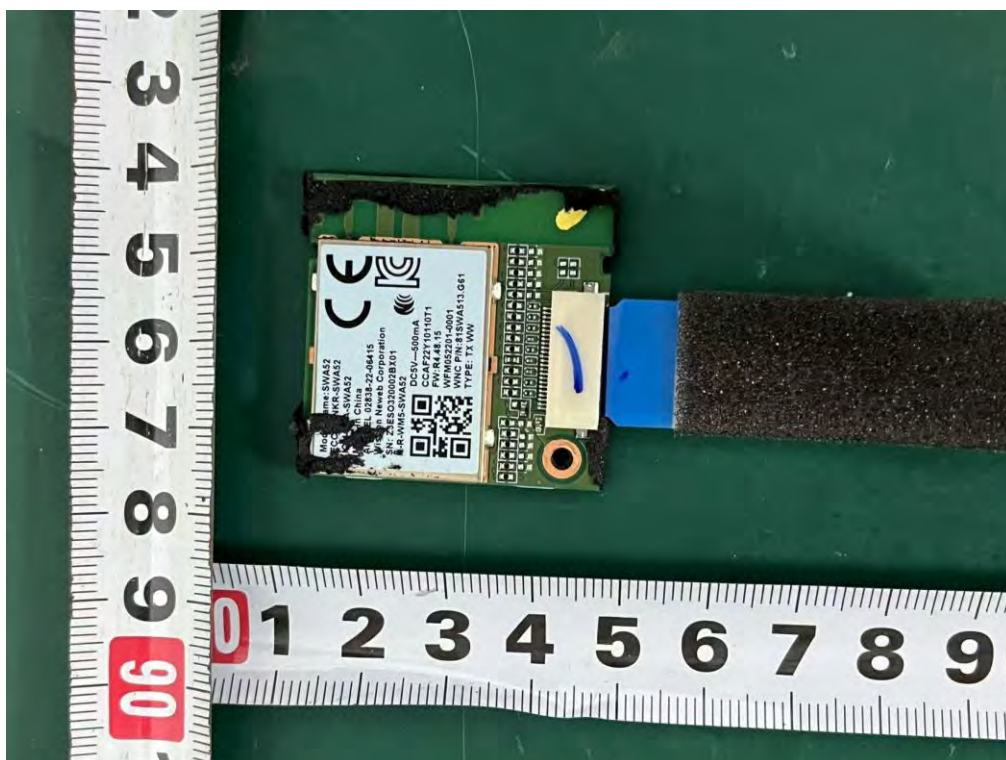
Internal Photos
M/N: Shockwafe Wireless



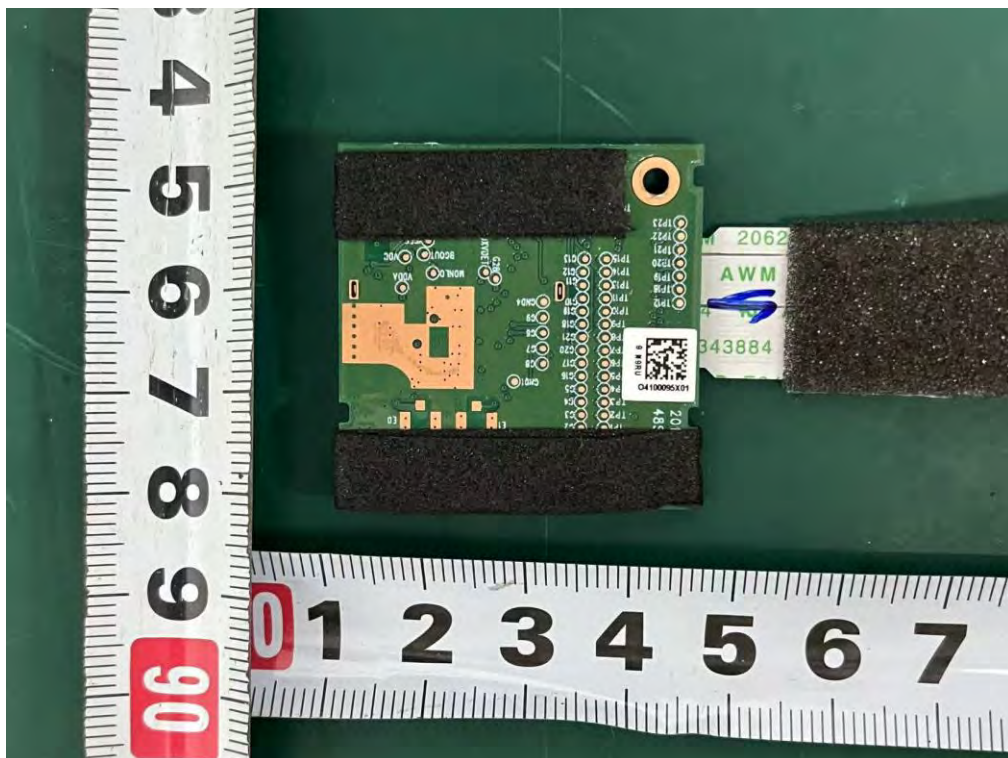
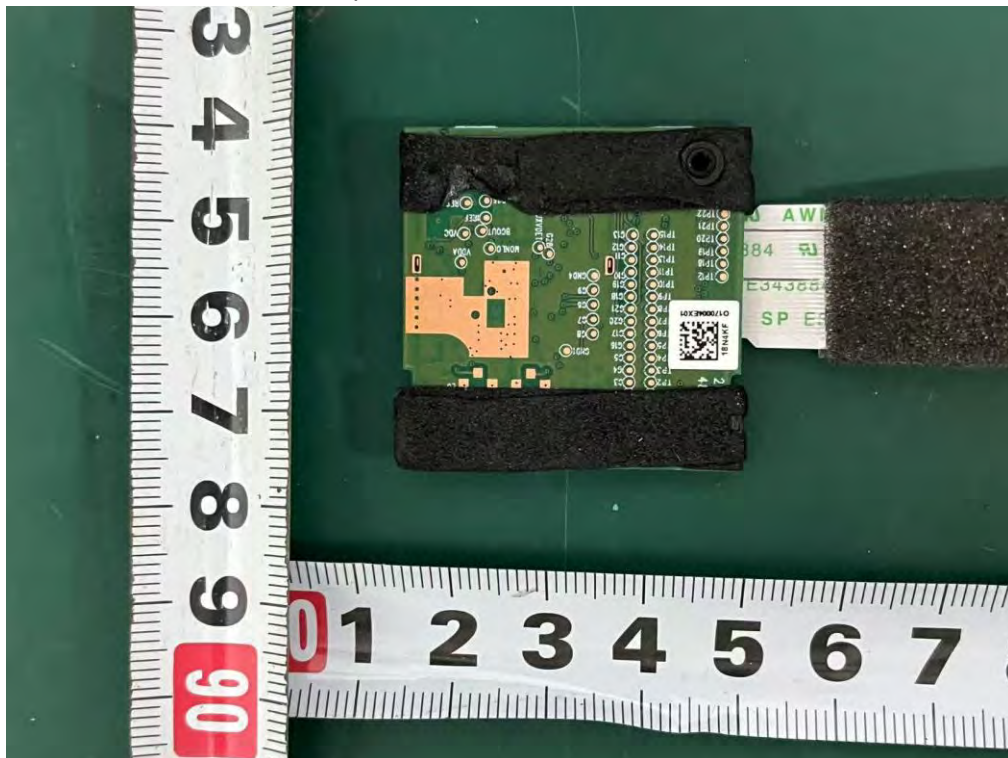
Internal Photos
M/N: Shockwafe Wireless



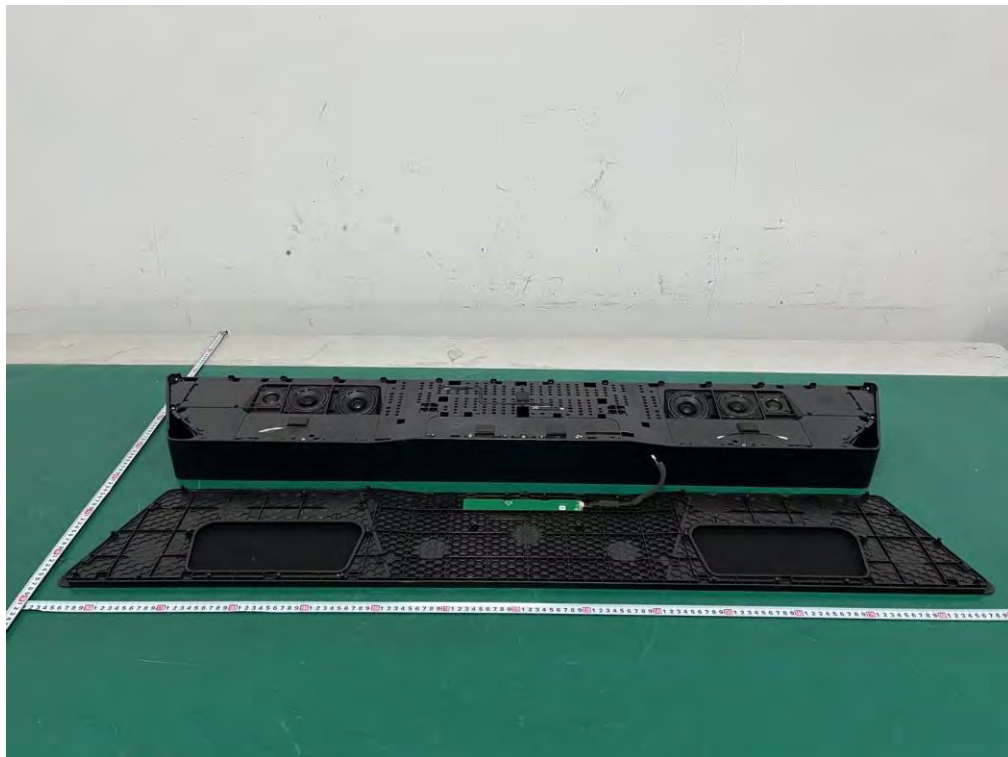
Internal Photos M/N: Shockwafe Wireless



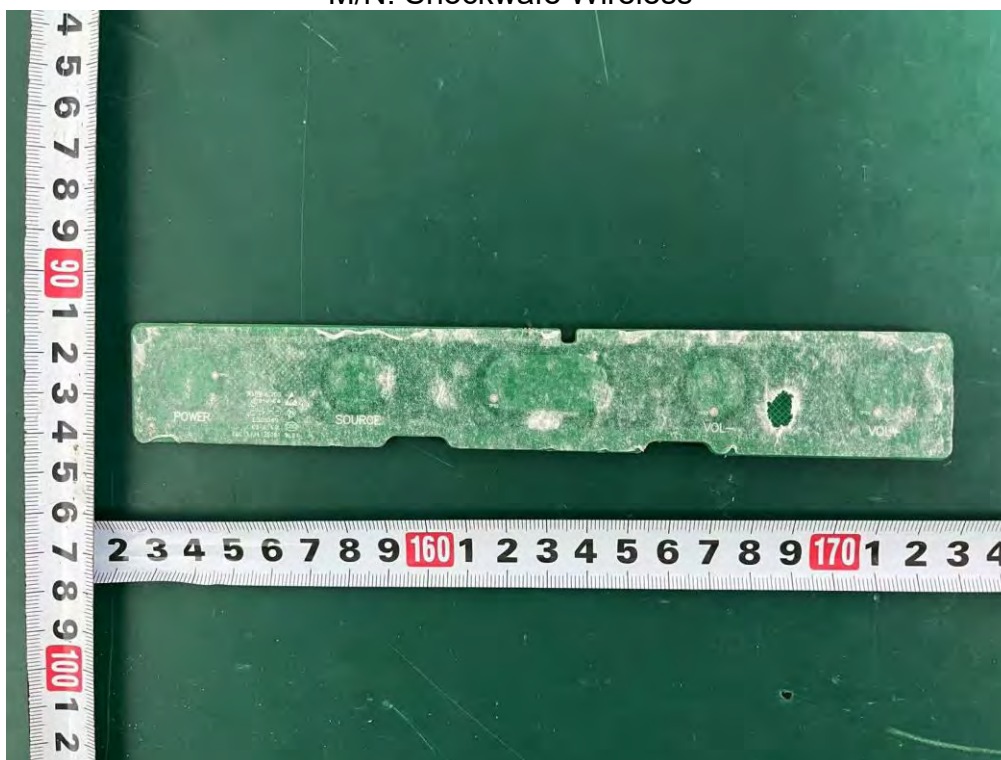
Internal Photos M/N: Shockwafe Wireless



Internal Photos M/N: Shockwafe Wireless



Internal Photos
M/N: Shockwafe Wireless



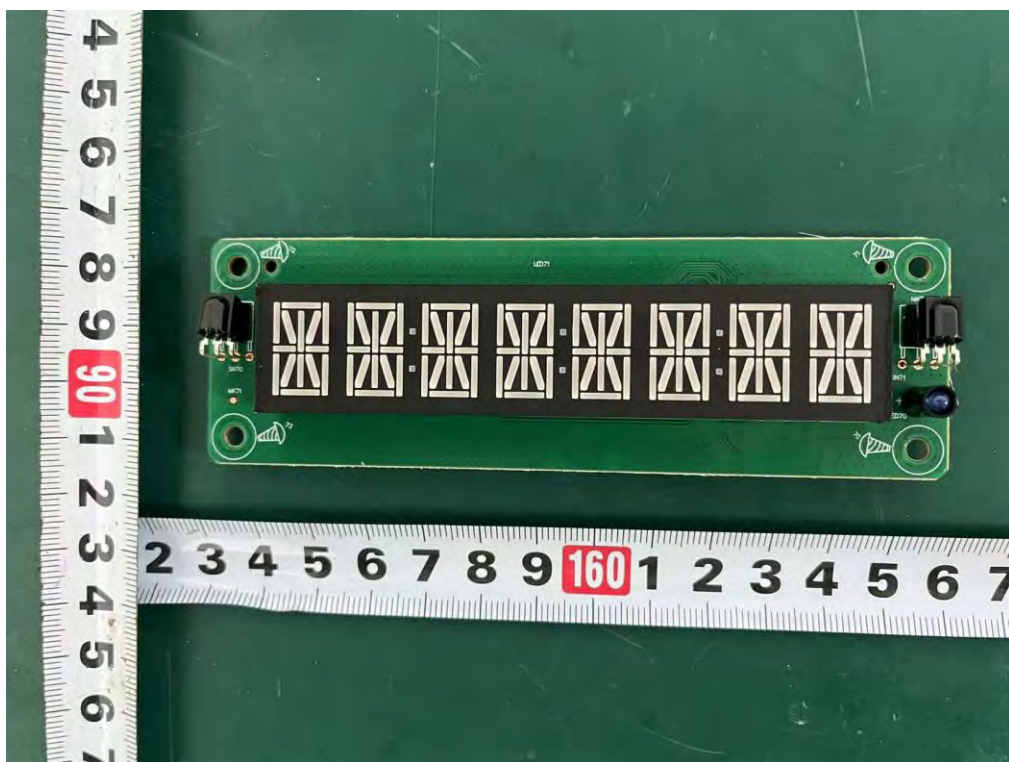
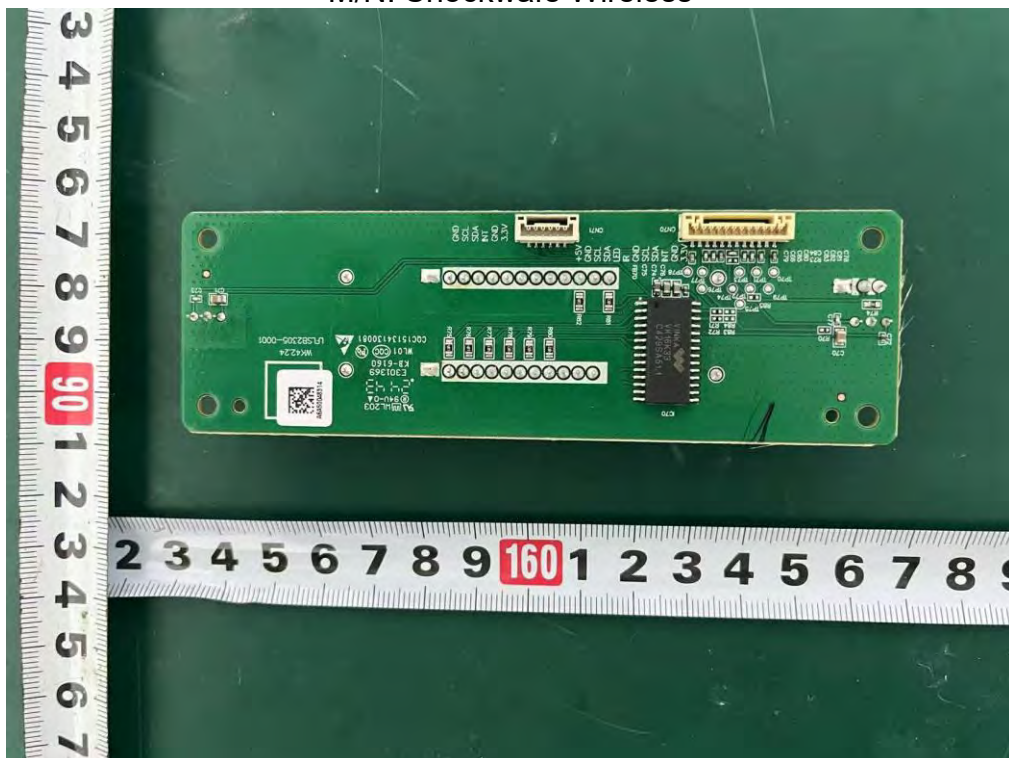
Internal Photos M/N: Shockwafe Wireless



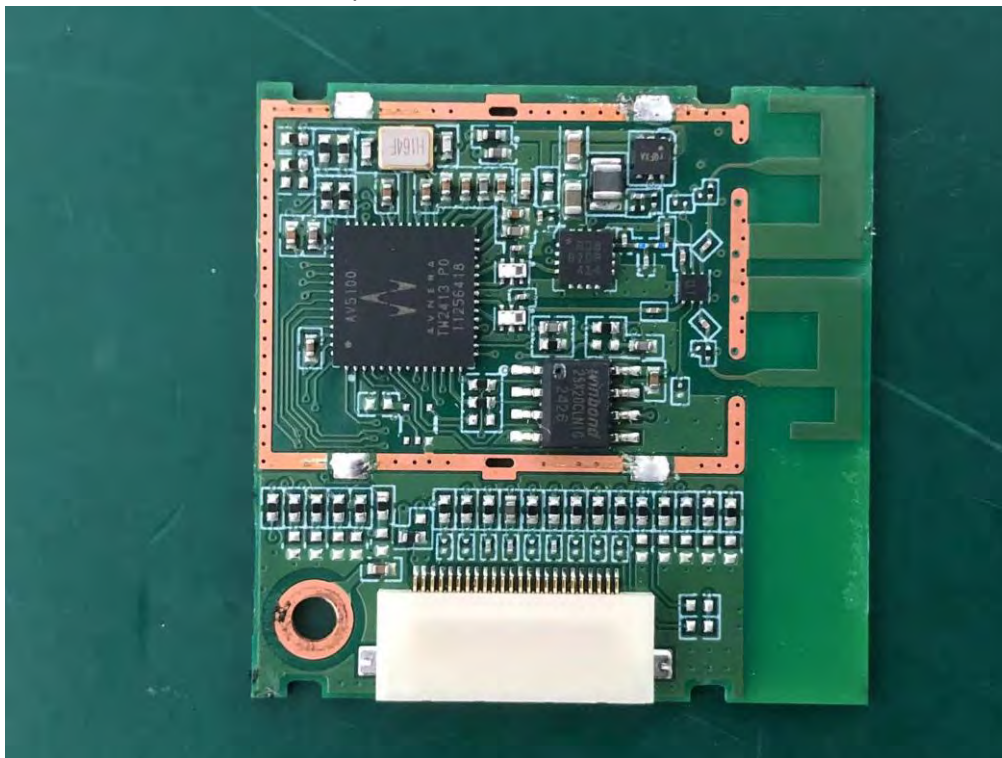
Wi-Fi
Antenna



Internal Photos M/N: Shockwafe Wireless



Internal Photos
M/N: Shockwafe Wireless



End of Test Report