

Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: Baby Monitor

Trade Mark: *acer*

Test Model: ST-5A

FCC ID: 2A2P5-ST-5AM

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	9.800	2407.000	2416.800	0.5	PASS
11B	Ant1	2437	9.800	2432.240	2442.040	0.5	PASS
11B	Ant1	2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
11N20SISO	Ant1	2437	16.920	2428.480	2445.400	0.5	PASS
11N20SISO	Ant1	2462	17.320	2453.480	2470.800	0.5	PASS

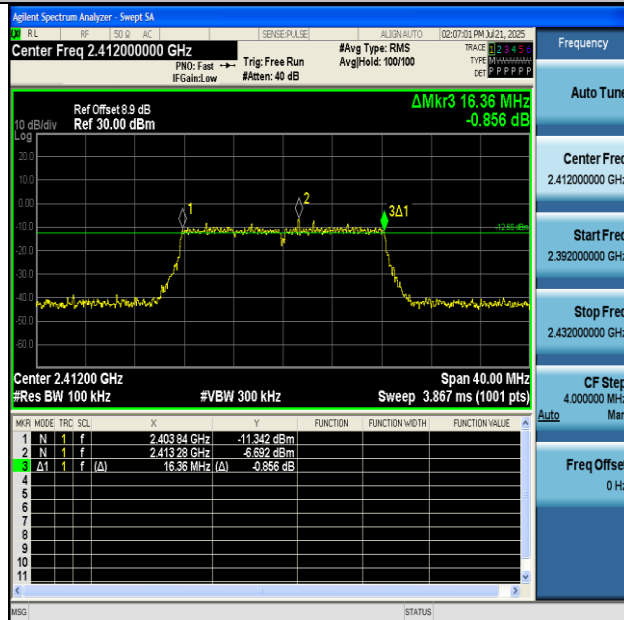
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

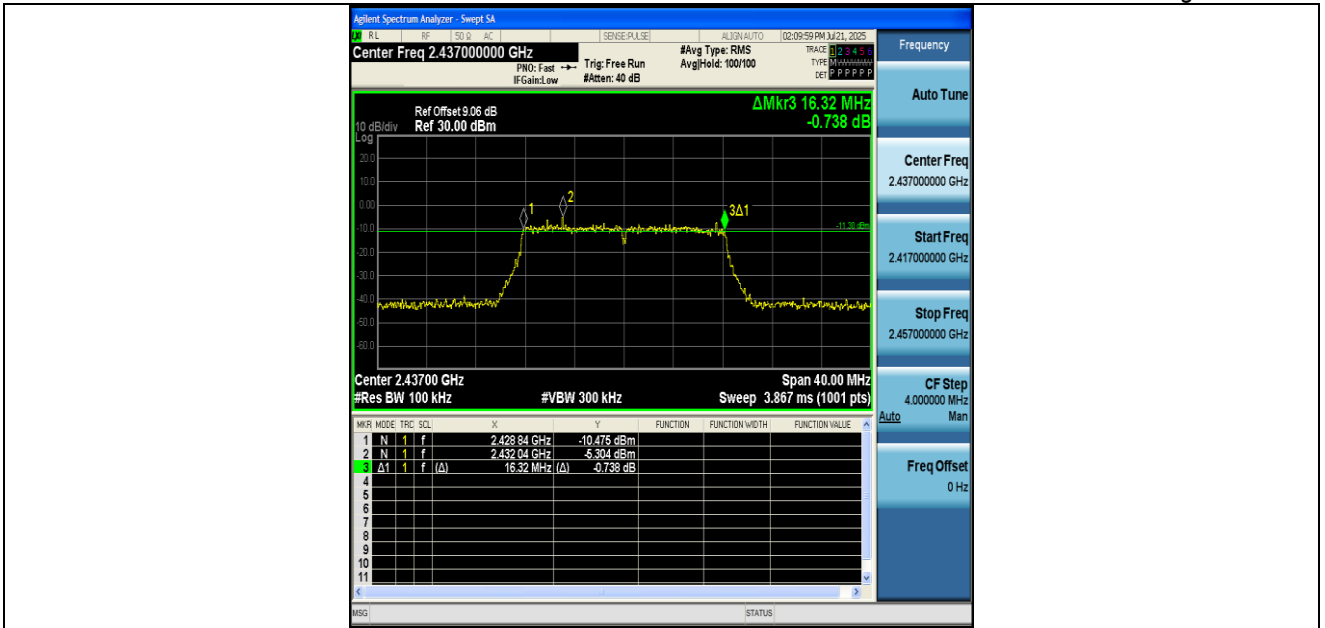




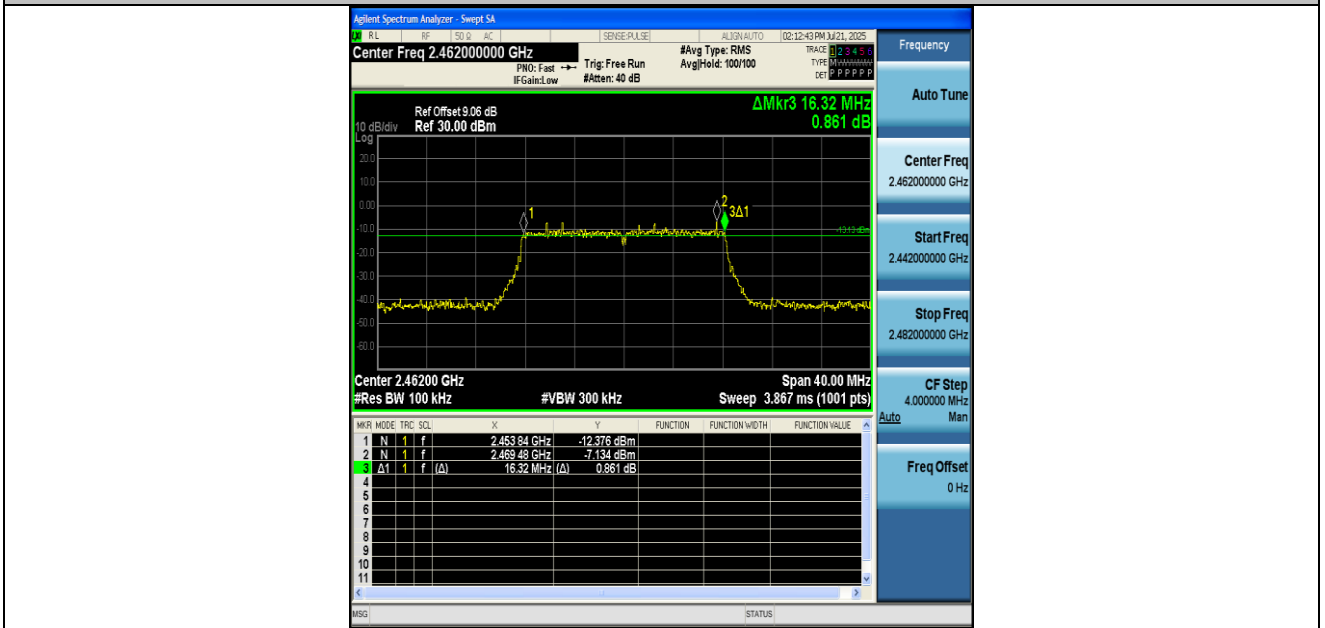
11B-Ant1-2462-PASS



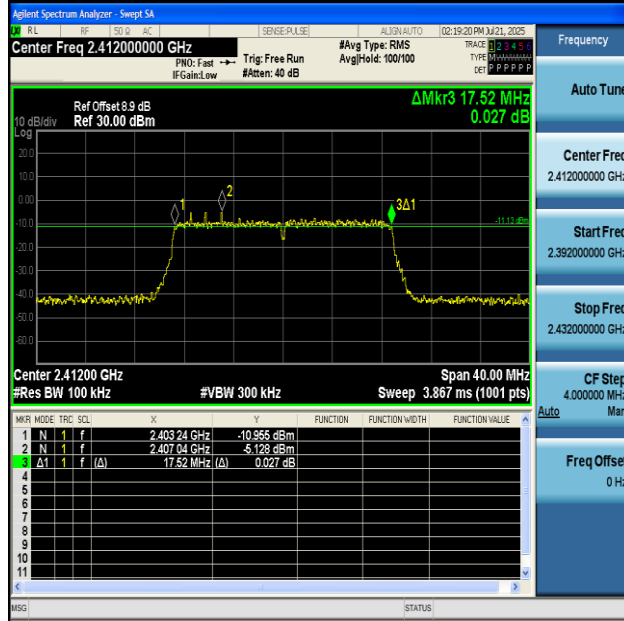
11G-Ant1-2412-PASS



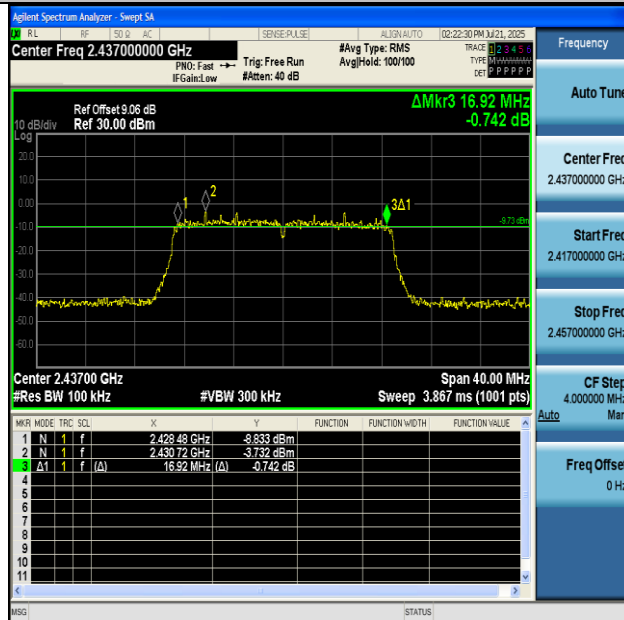
11G-Ant1-2437-PASS



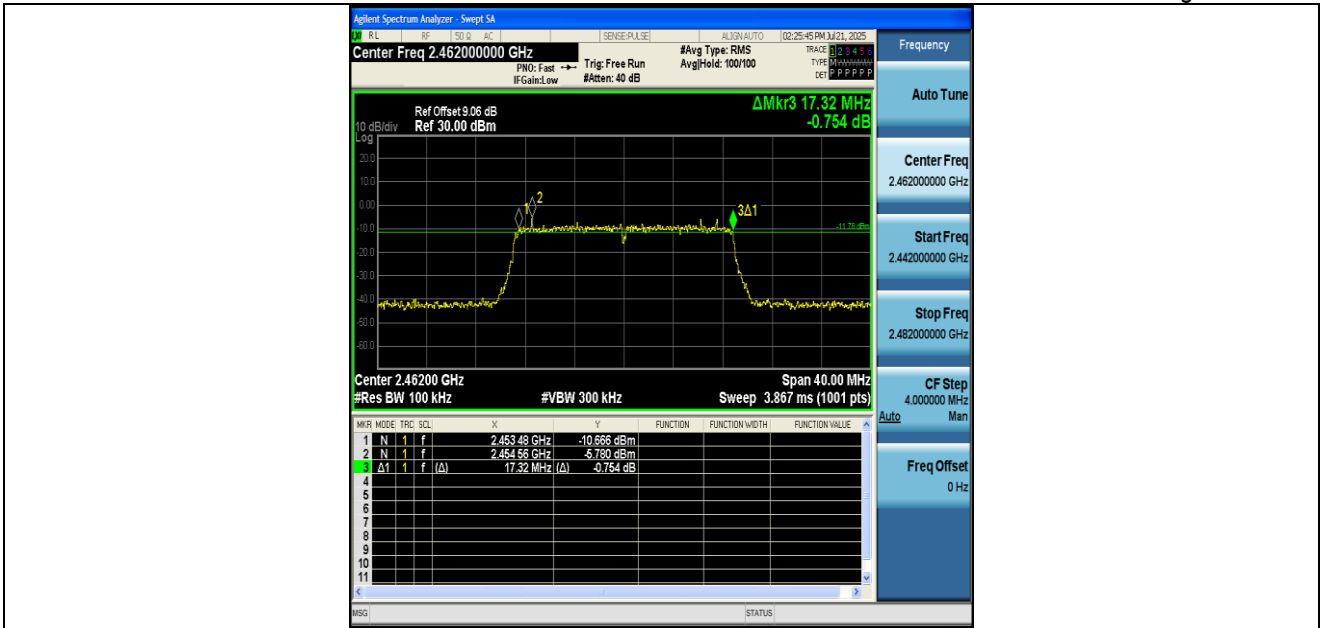
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

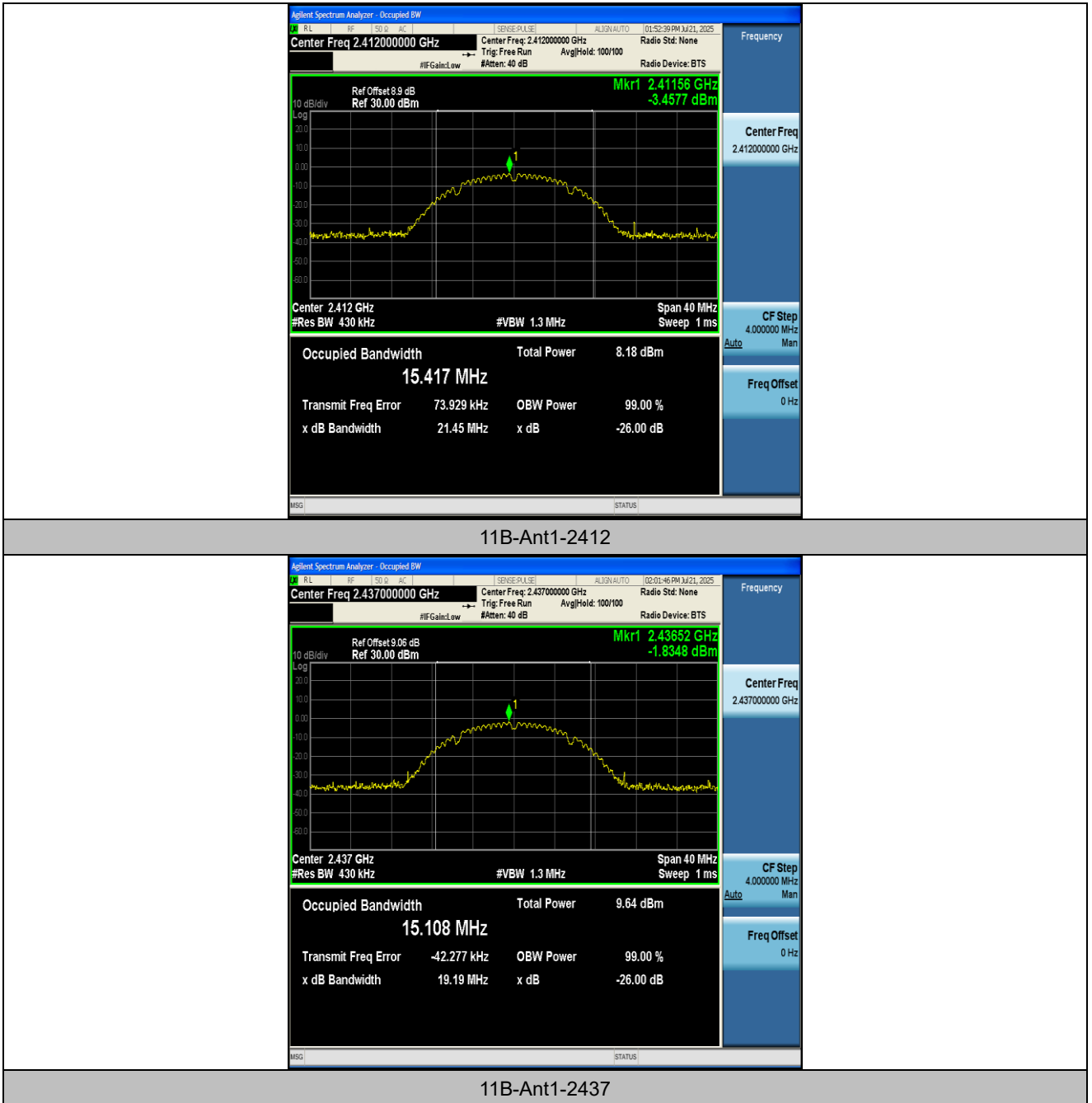
Appendix B: Occupied Channel Bandwidth

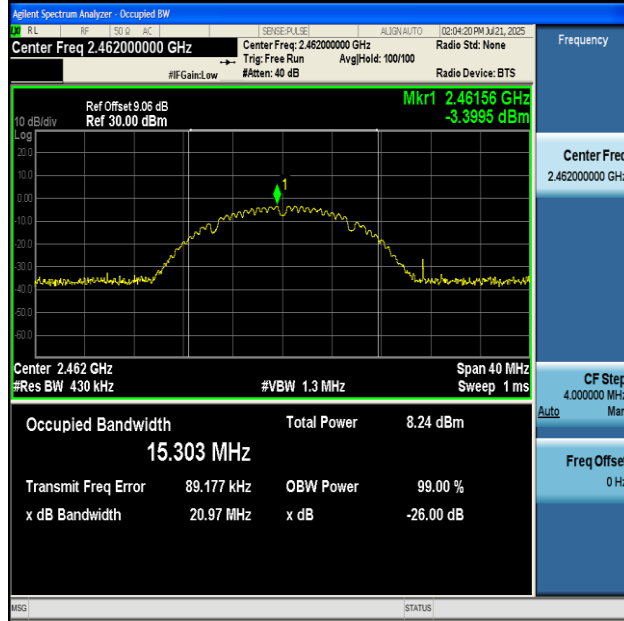
Test Result

Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	15.417	2404.3654	2419.7824	---	---
11B	Ant1	2437	15.108	2429.4037	2444.5117	---	---
11B	Ant1	2462	15.303	2454.4377	2469.7407	---	---
11G	Ant1	2412	16.857	2403.6369	2420.4939	---	---
11G	Ant1	2437	16.843	2428.5889	2445.4319	---	---
11G	Ant1	2462	16.885	2453.5706	2470.4556	---	---
11N20SISO	Ant1	2412	17.828	2403.0563	2420.8843	---	---
11N20SISO	Ant1	2437	17.604	2428.1873	2445.7913	---	---
11N20SISO	Ant1	2462	17.692	2453.2105	2470.9025	---	---

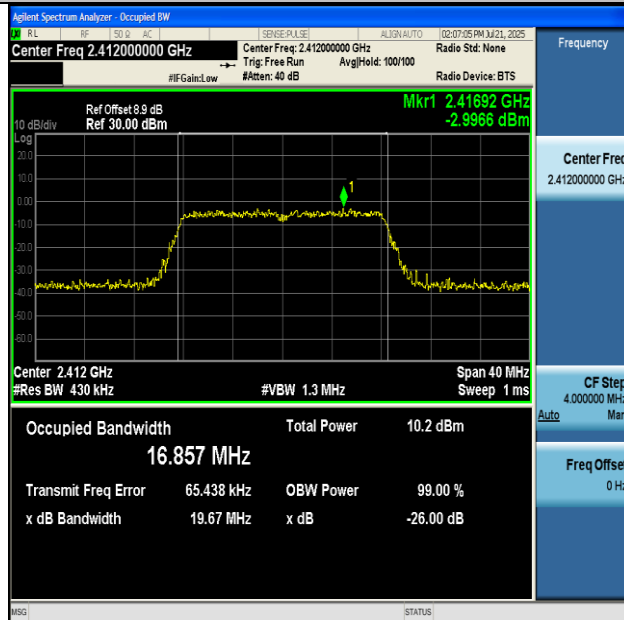
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

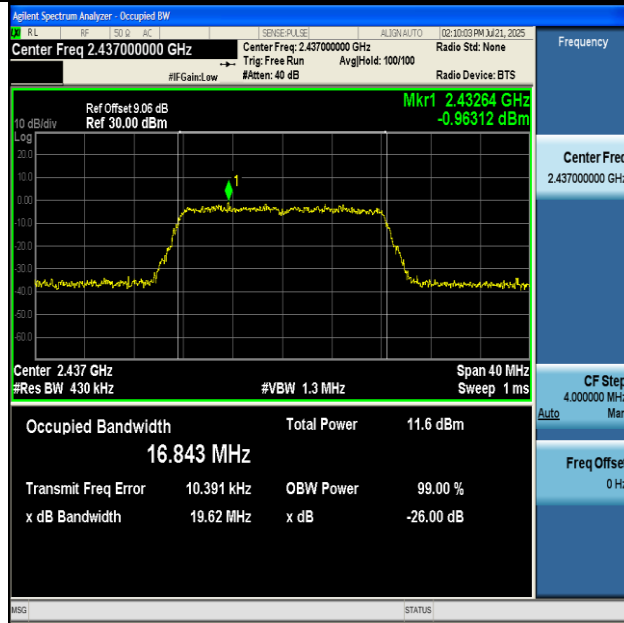




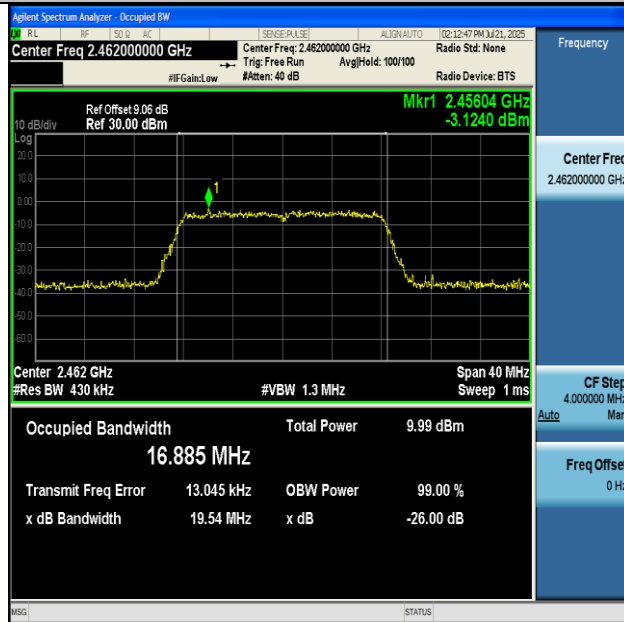
11B-Ant1-2462



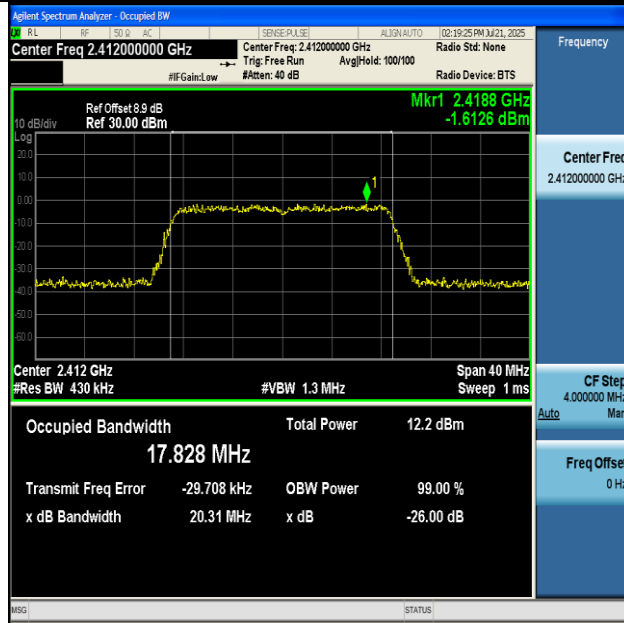
11G-Ant1-2412



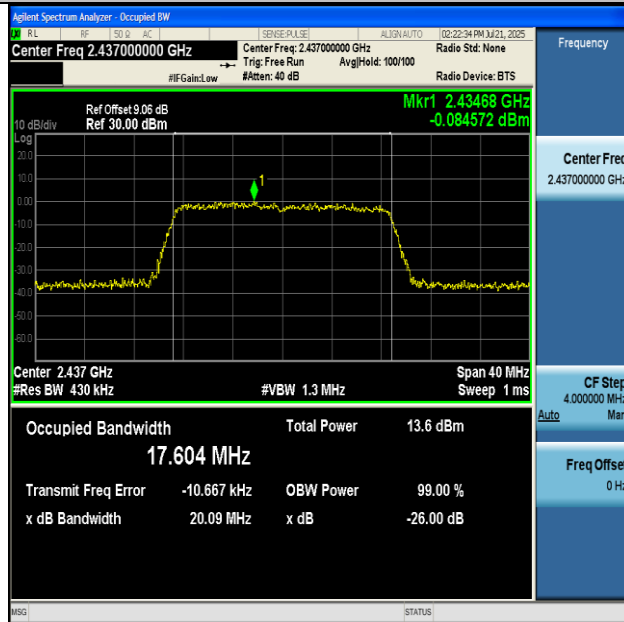
11G-Ant1-2437



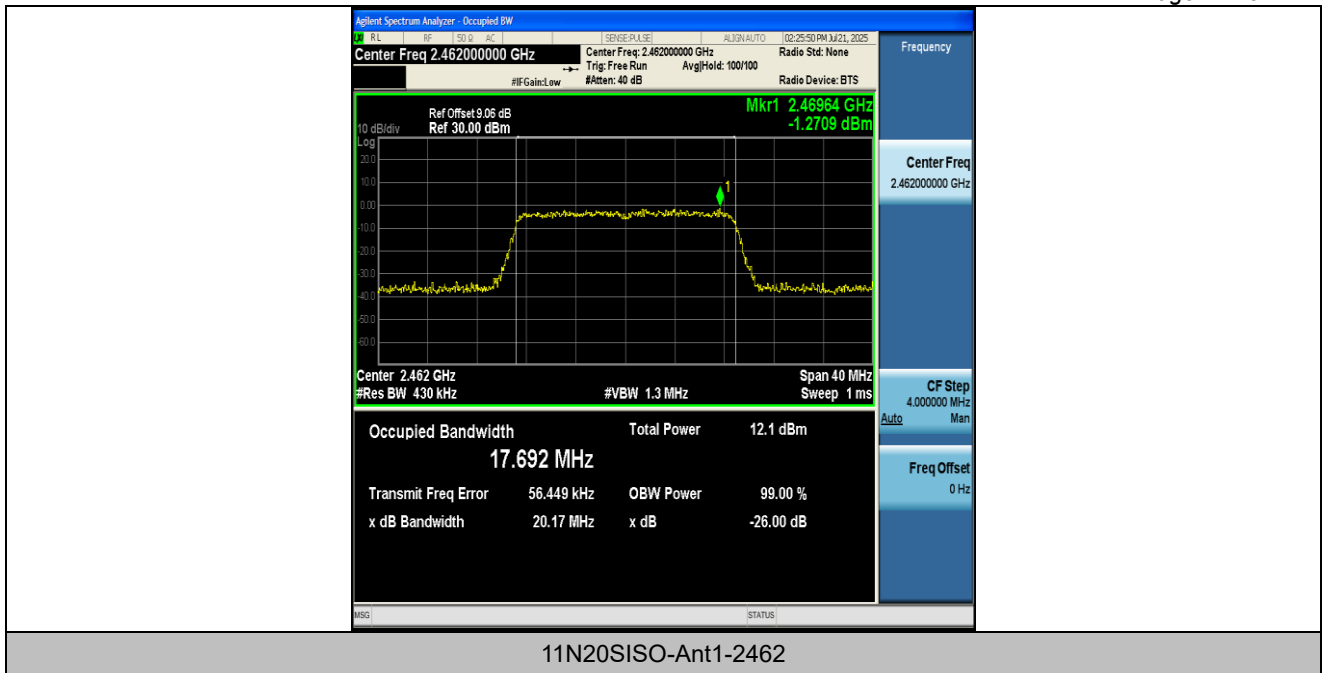
11G-Ant1-2462



11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	5.18	≤30.00	PASS
11B	Ant1	2437	6.60	≤30.00	PASS
11B	Ant1	2462	4.92	≤30.00	PASS
11G	Ant1	2412	6.98	≤30.00	PASS
11G	Ant1	2437	5.80	≤30.00	PASS
11G	Ant1	2462	5.71	≤30.00	PASS
11N20SISO	Ant1	2412	5.59	≤30.00	PASS
11N20SISO	Ant1	2437	7.84	≤30.00	PASS
11N20SISO	Ant1	2462	7.50	≤30.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

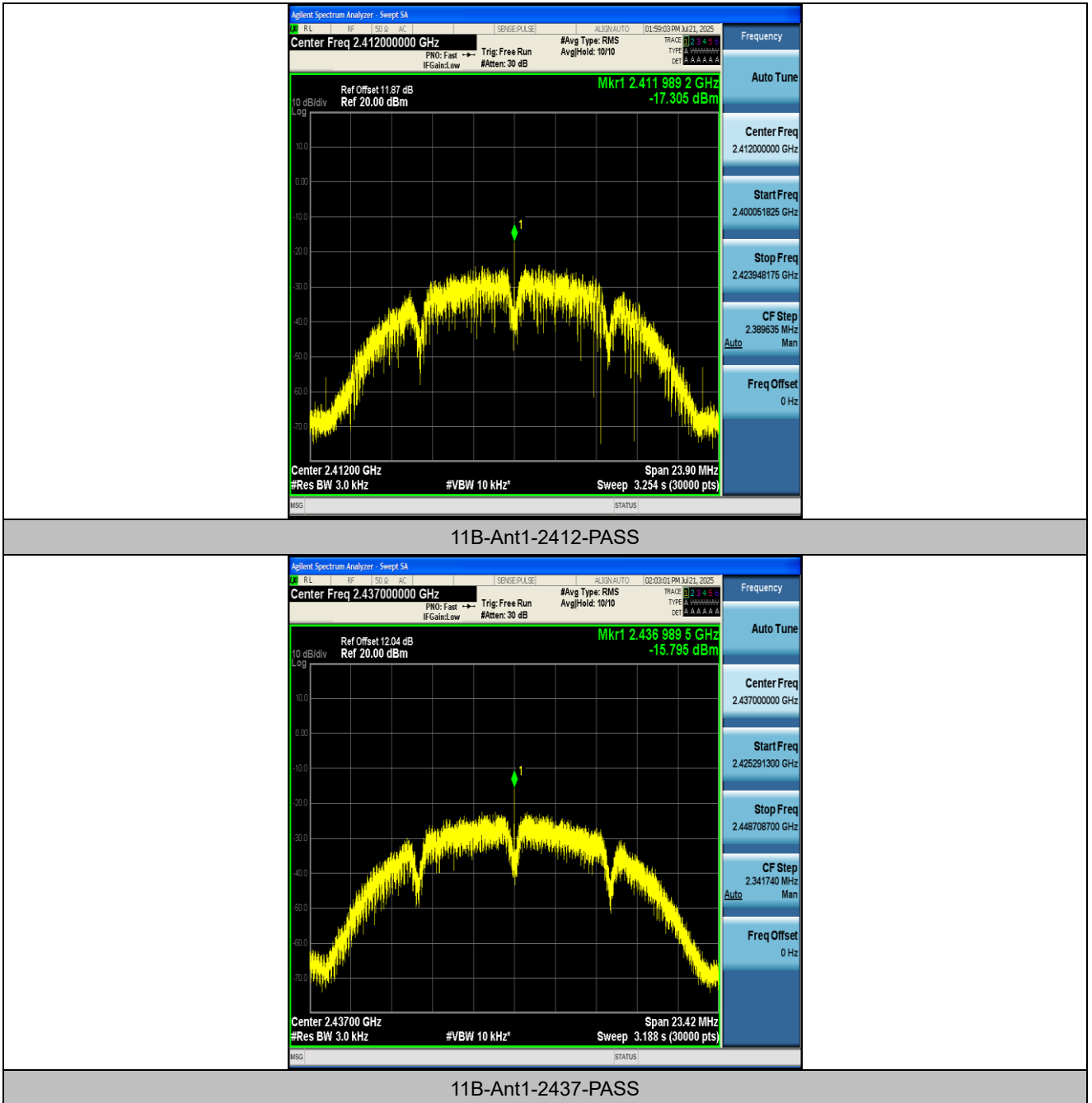
Appendix D: Maximum Average power spectral density

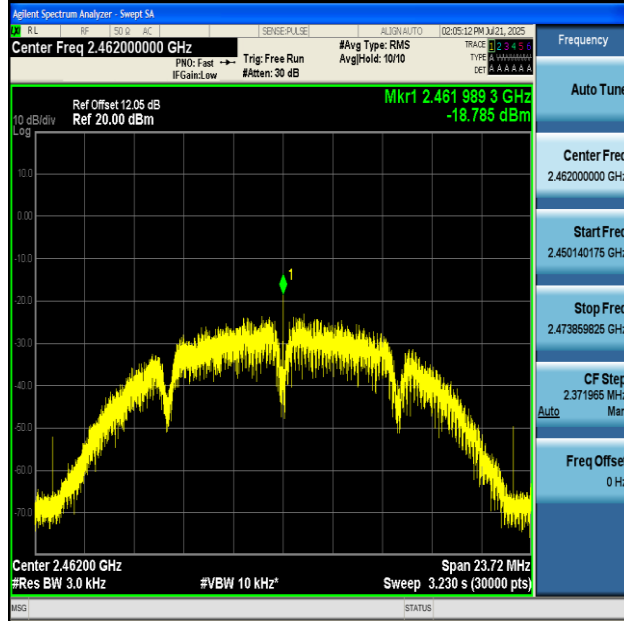
Test Result

Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3kHz]	Dc. Factor	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-20.28	2.97	-17.31	≤8.00	PASS
11B	Ant1	2437	-18.78	2.98	-15.80	≤8.00	PASS
11B	Ant1	2462	-21.78	2.99	-18.79	≤8.00	PASS
11G	Ant1	2412	-25.39	5.29	-20.10	≤8.00	PASS
11G	Ant1	2437	-23.17	3.01	-20.16	≤8.00	PASS
11G	Ant1	2462	-23.31	4.55	-18.76	≤8.00	PASS
11N20SISO	Ant1	2412	-21.21	3.86	-17.35	≤8.00	PASS
11N20SISO	Ant1	2437	-23.59	3.01	-20.58	≤8.00	PASS
11N20SISO	Ant1	2462	-23.67	4.50	-19.17	≤8.00	PASS

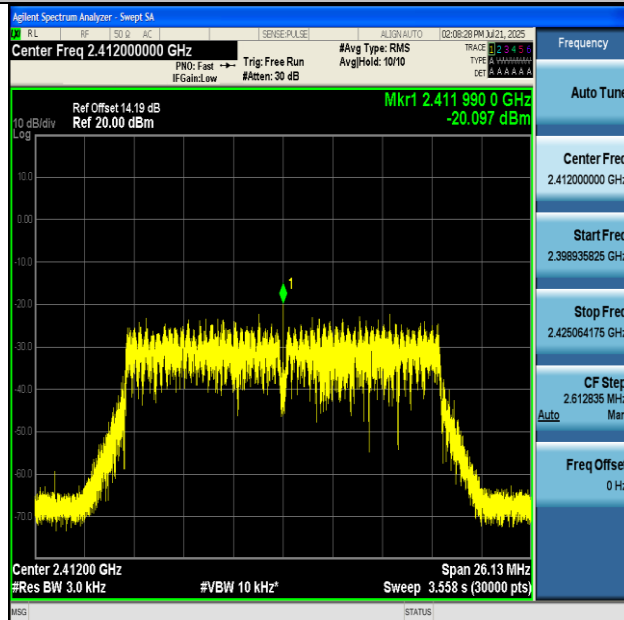
Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

Test Graphs

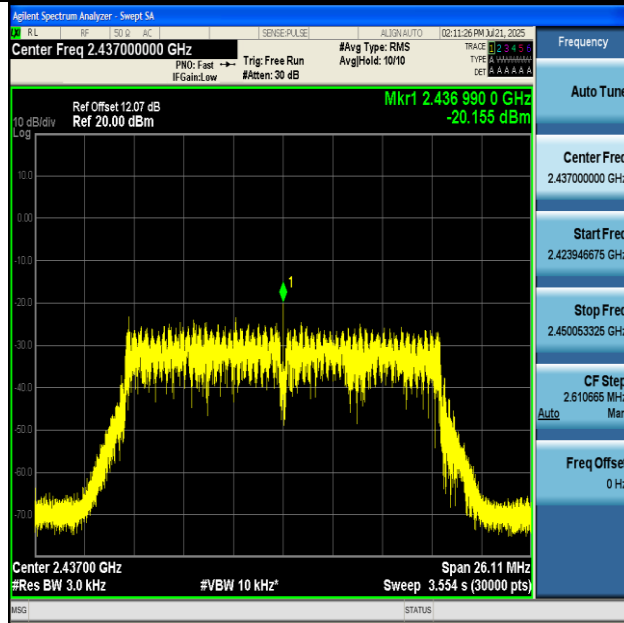




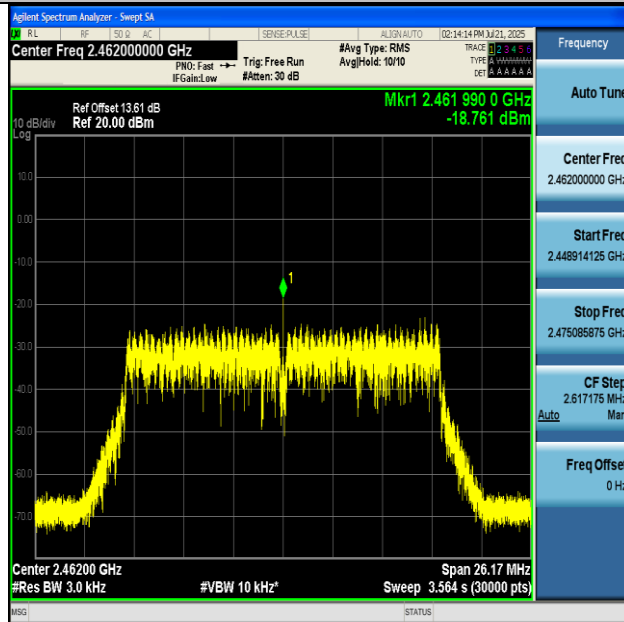
11B-Ant1-2462-PASS



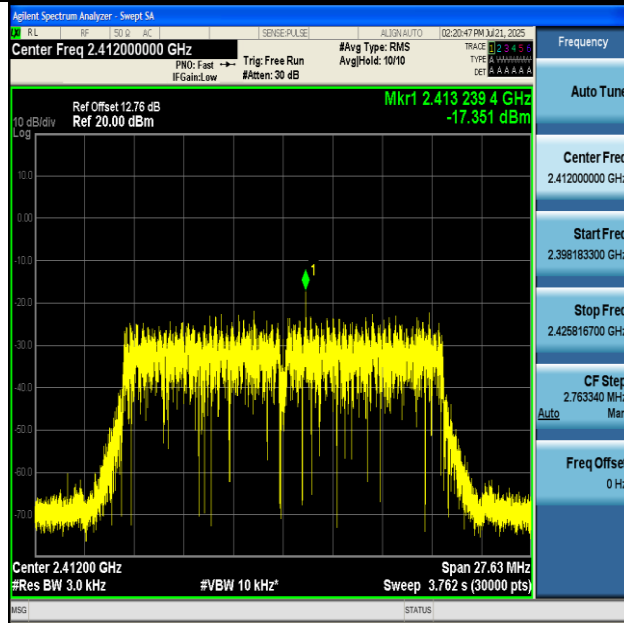
11G-Ant1-2412-PASS



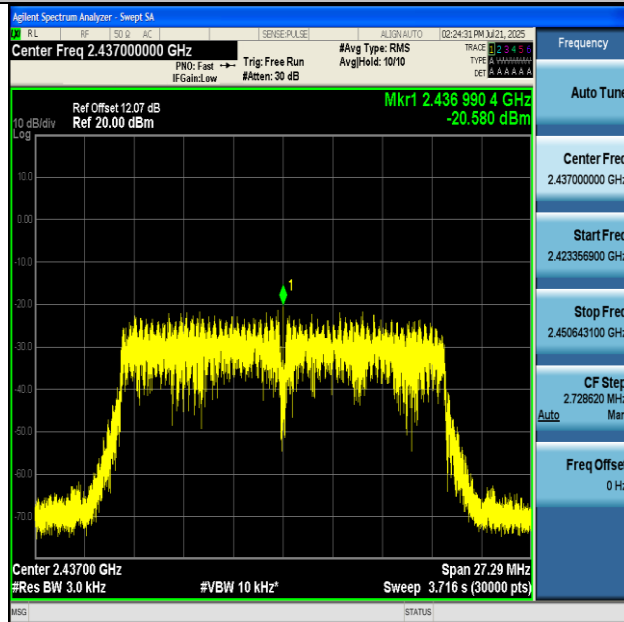
11G-Ant1-2437-PASS



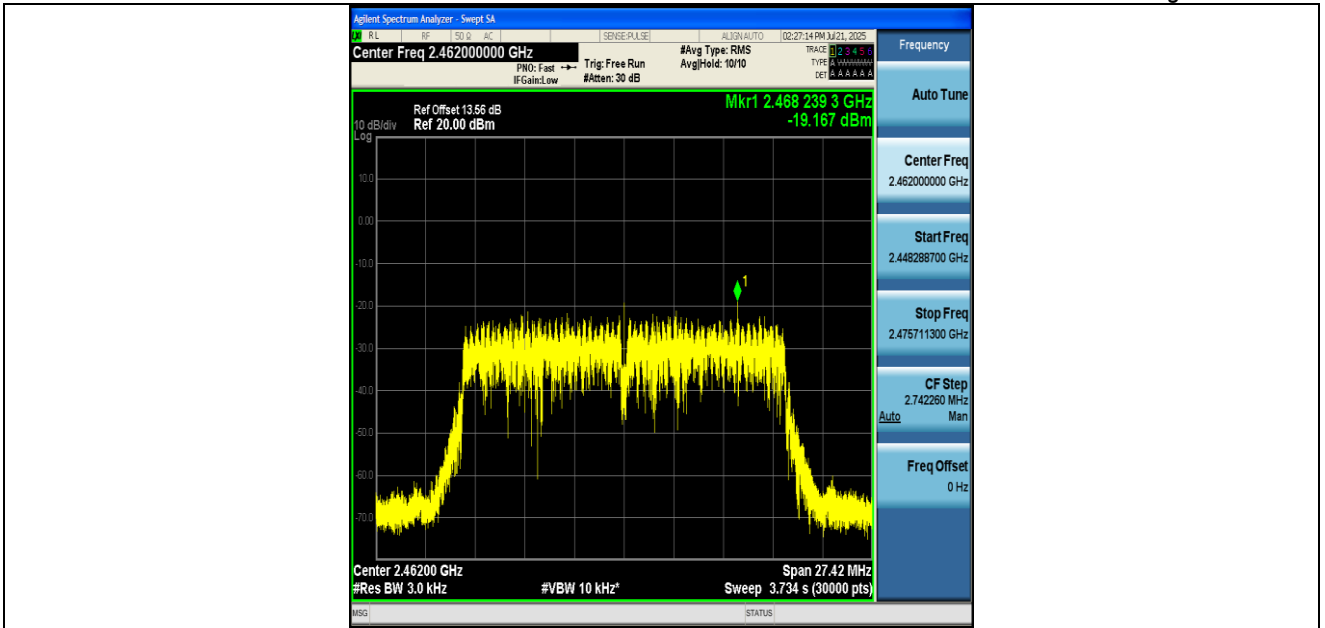
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

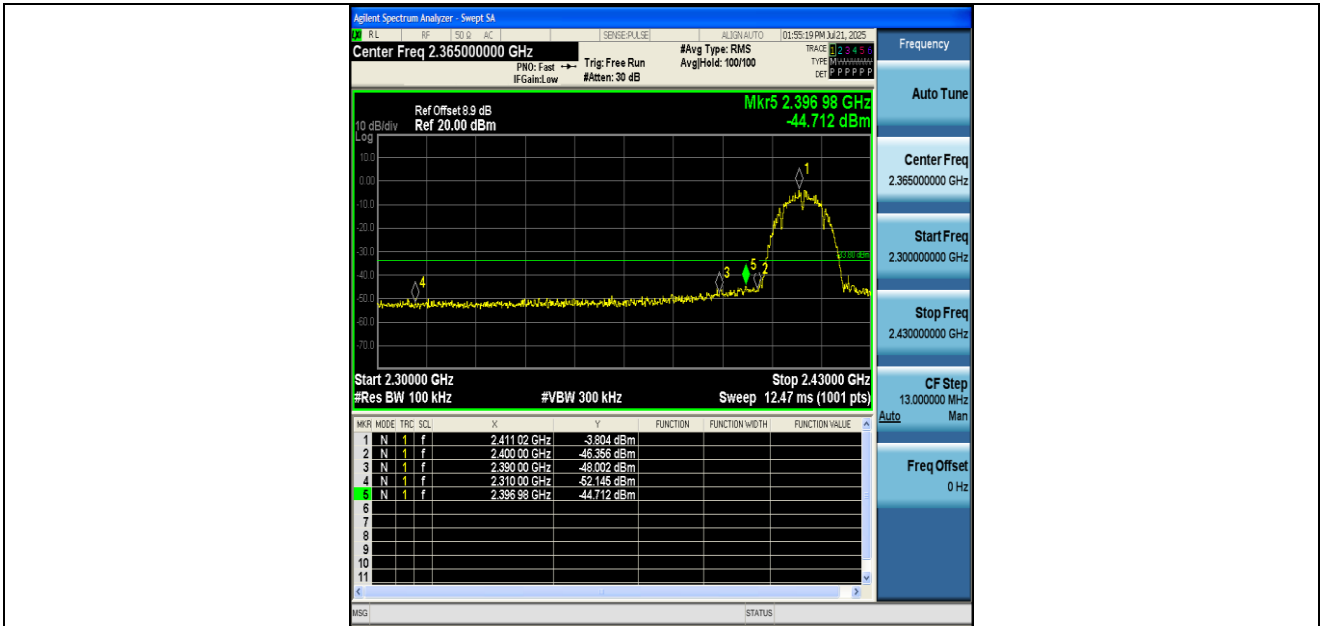
Appendix E: Band edge measurements

Test Result

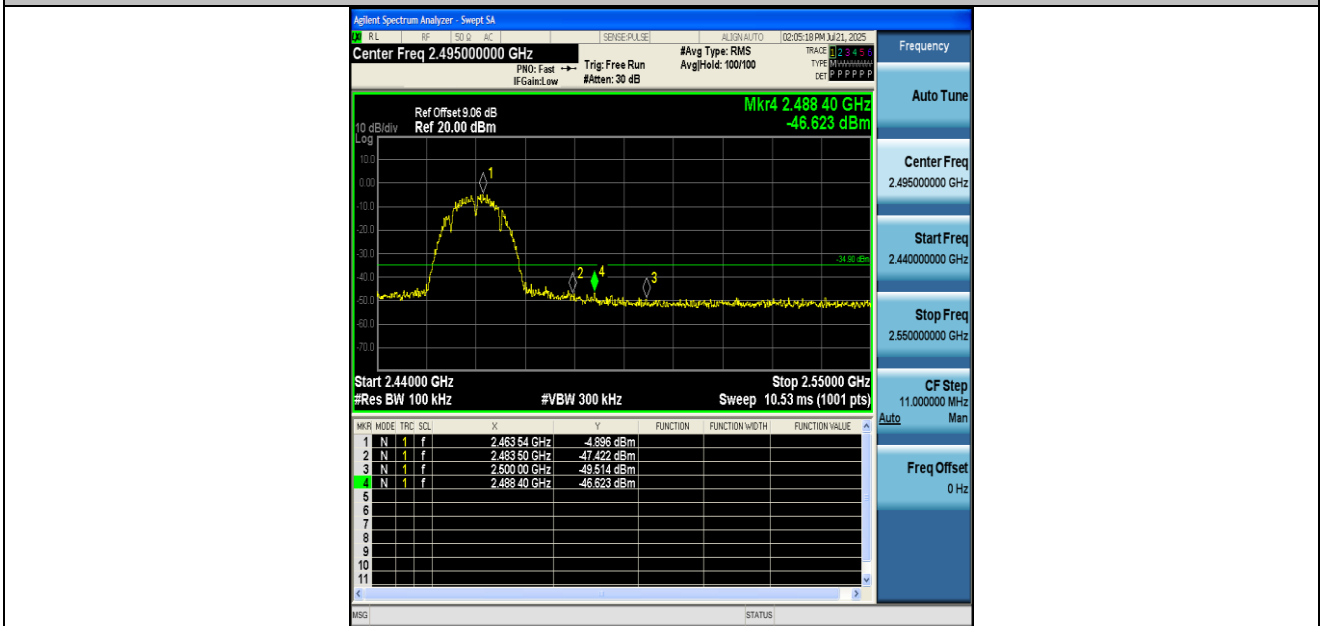
Test Mode	Antenna	Ch. Name	Frequency.[MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-3.80	-44.71	≤-33.8	PASS
11B	Ant1	High	2462	-4.90	-46.62	≤-34.9	PASS
11G	Ant1	Low	2412	-7.43	-45.96	≤-37.43	PASS
11G	Ant1	High	2462	-7.20	-48.22	≤-37.2	PASS
11N20SIS O	Ant1	Low	2412	-4.75	-45.33	≤-34.75	PASS
11N20SIS O	Ant1	High	2462	-5.44	-48.18	≤-35.44	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

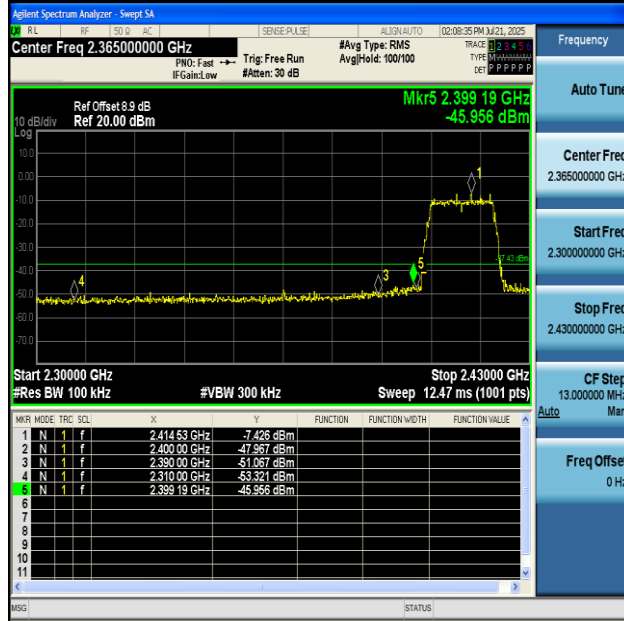
Test Graphs



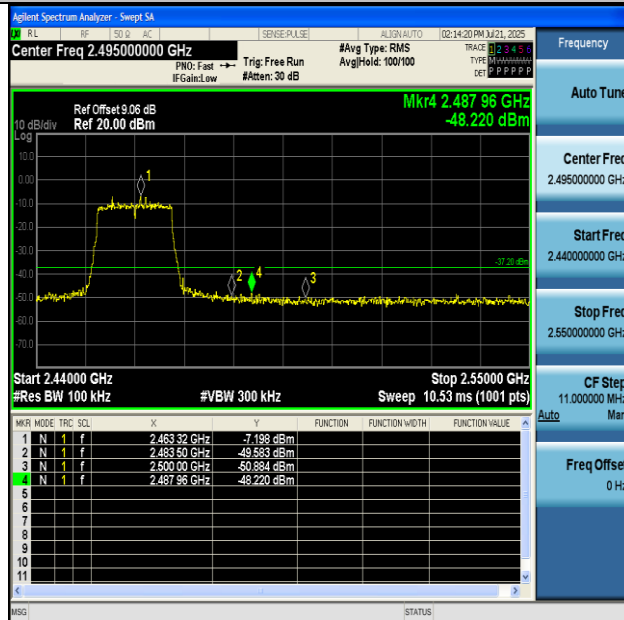
11B-Ant1-2412-PASS



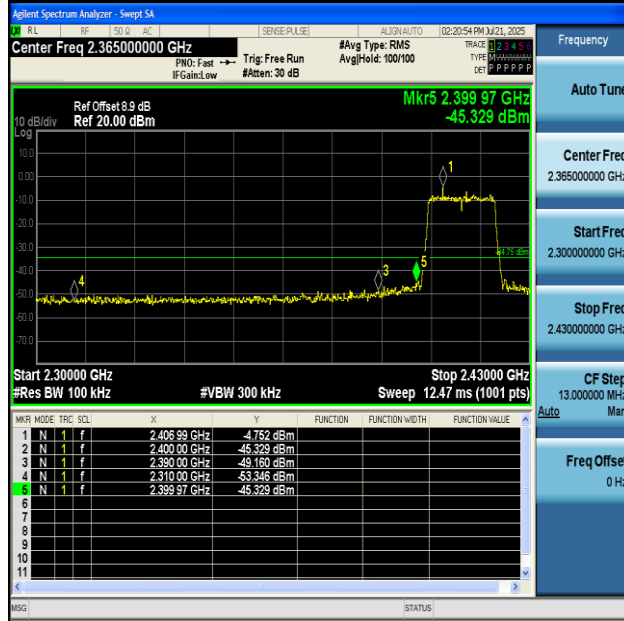
11B-Ant1-2462-PASS



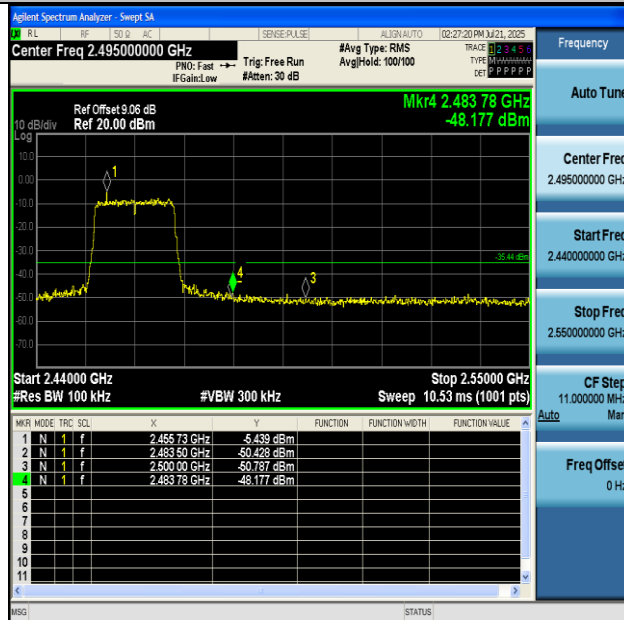
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

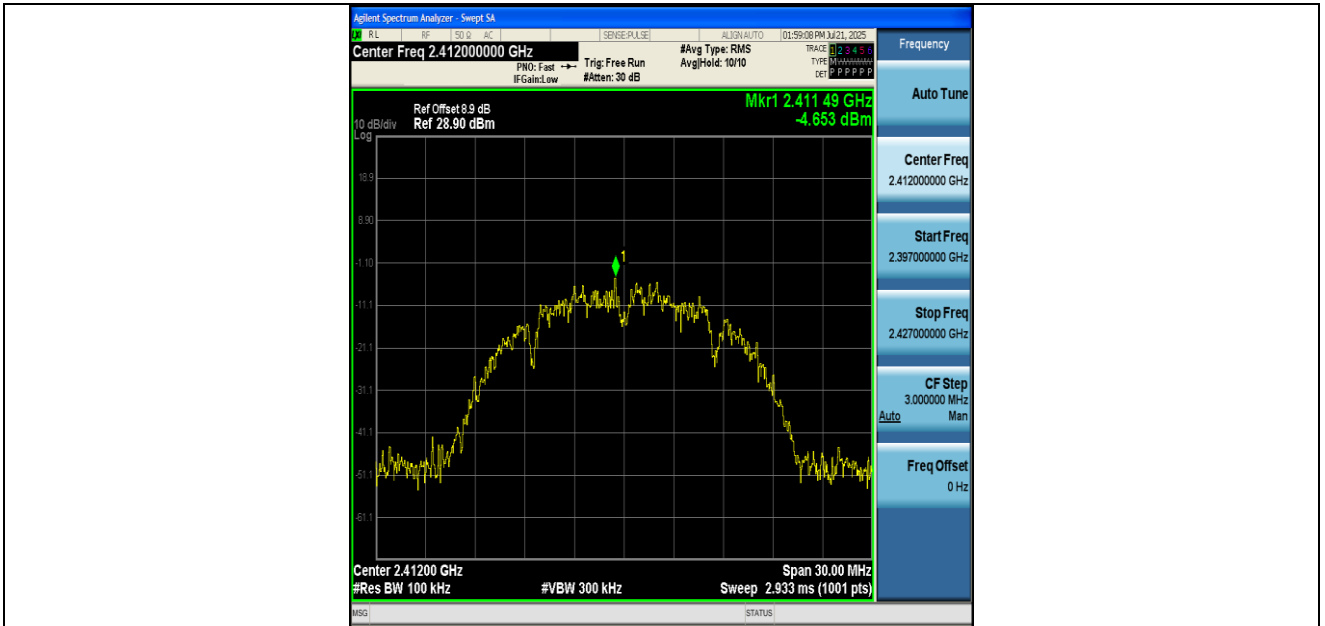
Appendix F: Conducted Spurious Emission

Test Result

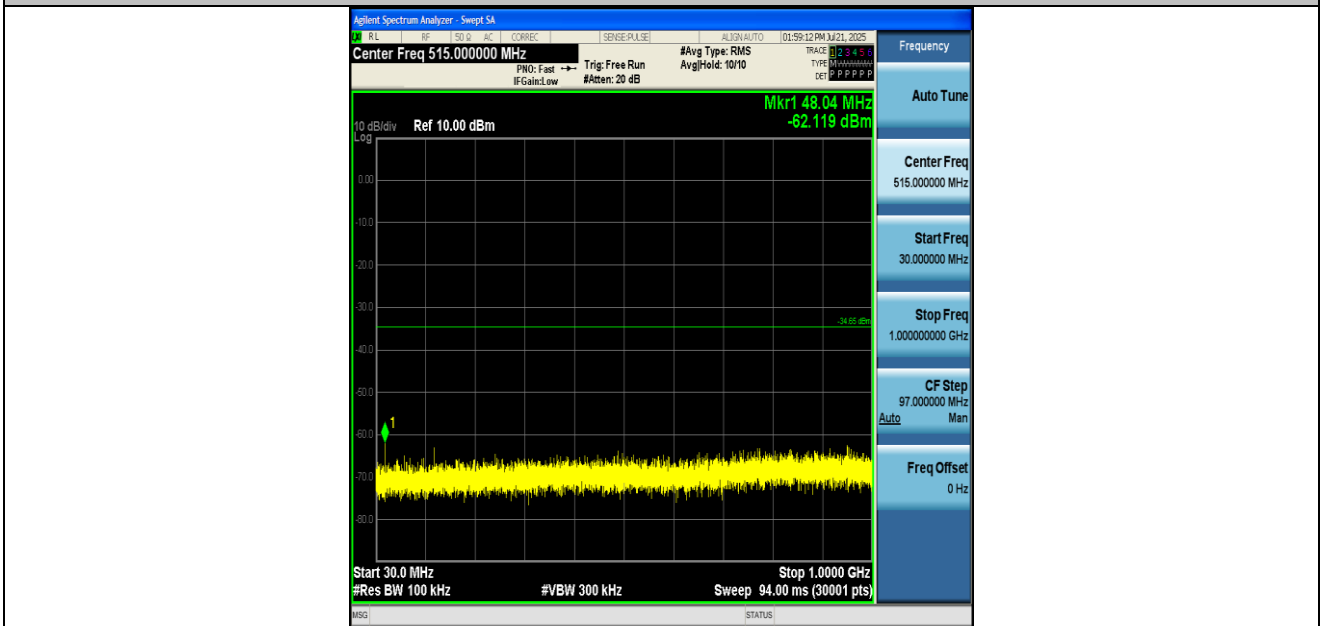
Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-4.65	-4.65	---	PASS
11B	Ant1	2412	30~1000	-4.65	-62.12	≤-34.65	PASS
11B	Ant1	2412	1000~26500	-6.28	-44.92	≤-36.28	PASS
11B	Ant1	2437	0~Reference	-3.83	-3.83	---	PASS
11B	Ant1	2437	30~1000	-3.83	-61.19	≤-33.83	PASS
11B	Ant1	2437	1000~26500	-3.83	-44.46	≤-33.83	PASS
11B	Ant1	2462	0~Reference	-6.04	-6.04	---	PASS
11B	Ant1	2462	30~1000	-6.04	-60.25	≤-36.04	PASS
11B	Ant1	2462	1000~26500	-6.04	-45.25	≤-36.04	PASS
11G	Ant1	2412	0~Reference	-10.53	-10.53	---	PASS
11G	Ant1	2412	30~1000	-10.53	-60.68	≤-40.53	PASS
11G	Ant1	2412	1000~26500	-10.53	-45.13	≤-40.53	PASS
11G	Ant1	2437	0~Reference	-8.94	-8.94	---	PASS
11G	Ant1	2437	30~1000	-8.94	-61.3	≤-38.94	PASS
11G	Ant1	2437	1000~26500	-8.94	-44.59	≤-38.94	PASS
11G	Ant1	2462	0~Reference	-10.70	-10.70	---	PASS
11G	Ant1	2462	30~1000	-10.70	-61.64	≤-40.7	PASS
11G	Ant1	2462	1000~26500	-10.70	-44.67	≤-40.7	PASS
11N20SISO	Ant1	2412	0~Reference	-5.73	-5.73	---	PASS
11N20SISO	Ant1	2412	30~1000	-5.73	-61.76	≤-35.73	PASS
11N20SISO	Ant1	2412	1000~26500	-5.73	-44.55	≤-35.73	PASS
11N20SISO	Ant1	2437	0~Reference	-7.52	-7.52	---	PASS
11N20SISO	Ant1	2437	30~1000	-7.52	-61.86	≤-37.52	PASS
11N20SISO	Ant1	2437	1000~26500	-7.52	-44.75	≤-37.52	PASS
11N20SISO	Ant1	2462	0~Reference	-5.75	-5.75	---	PASS
11N20SISO	Ant1	2462	30~1000	-5.75	-61.25	≤-35.75	PASS
11N20SISO	Ant1	2462	1000~26500	-5.75	-43	≤-35.75	PASS

Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

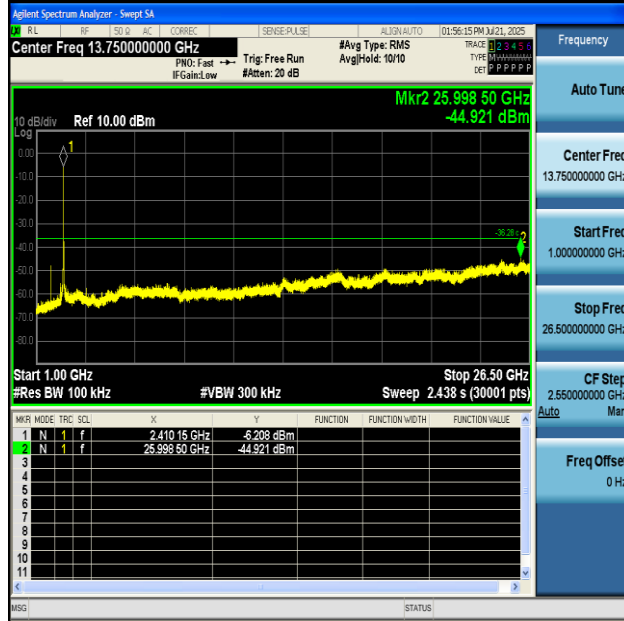
Test Graphs



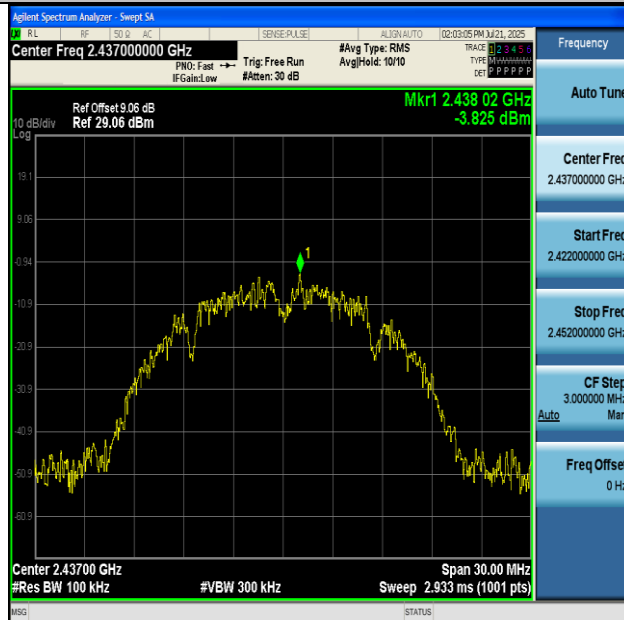
11B-Ant1-2412-0~Reference-PASS



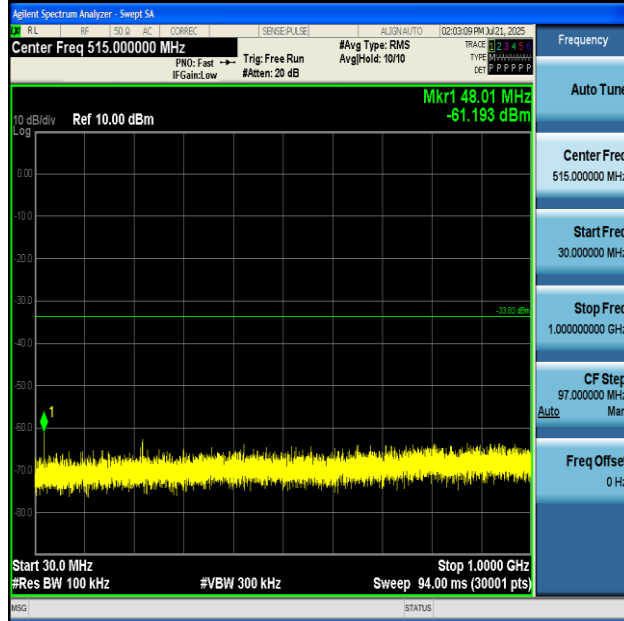
11B-Ant1-2412-30~1000-PASS



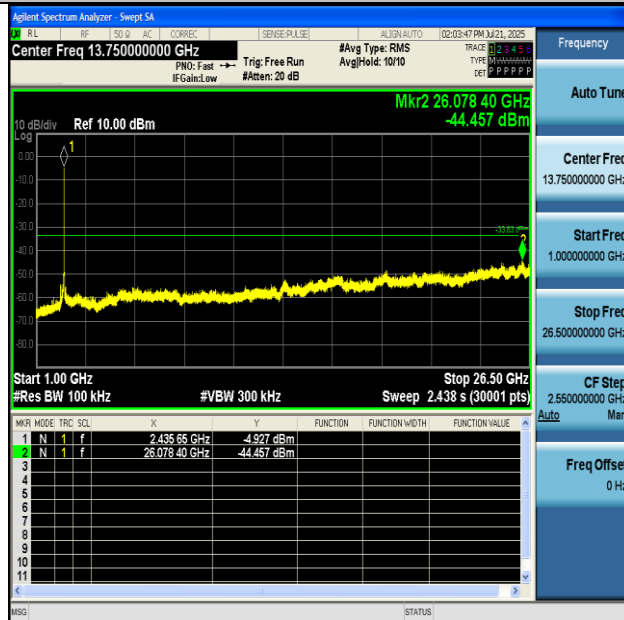
11B-Ant1-2412-1000~26500-PASS



11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



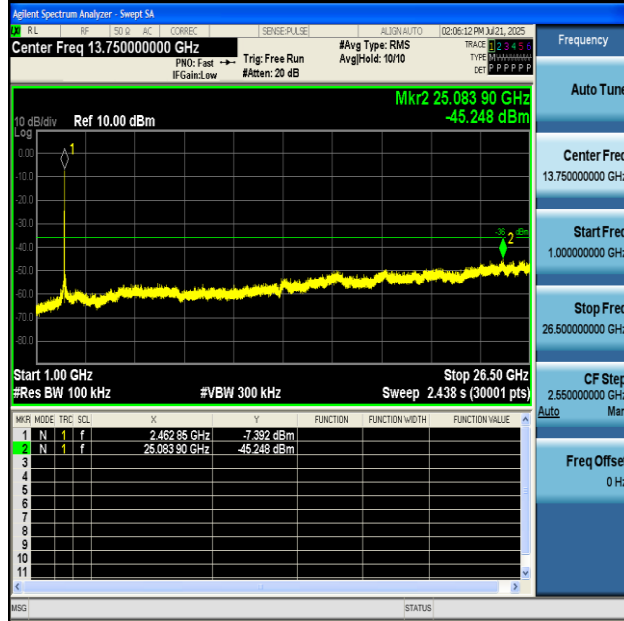
11B-Ant1-2437-1000~26500-PASS



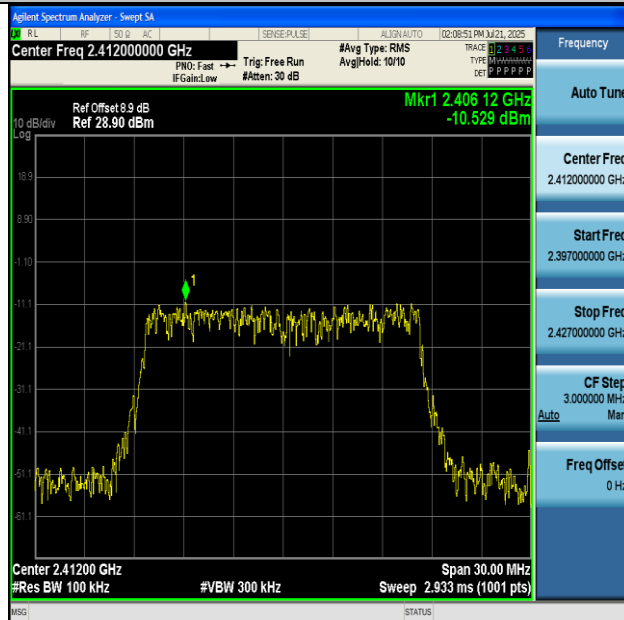
11B-Ant1-2462-0~Reference-PASS



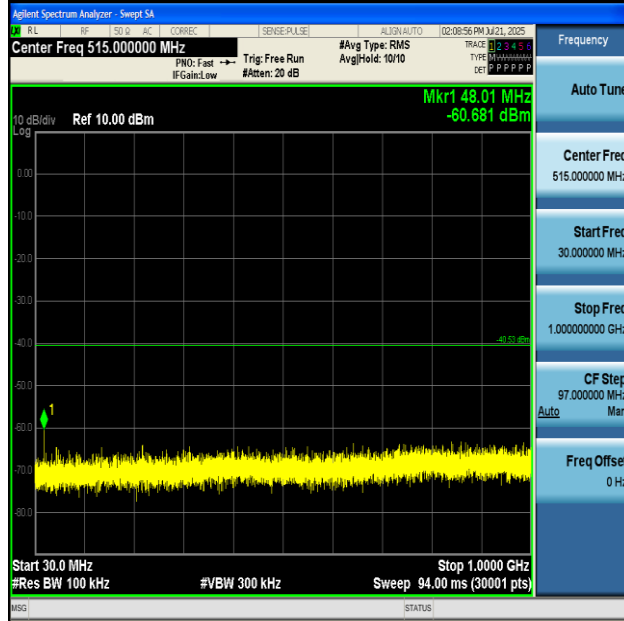
11B-Ant1-2462-30~1000-PASS



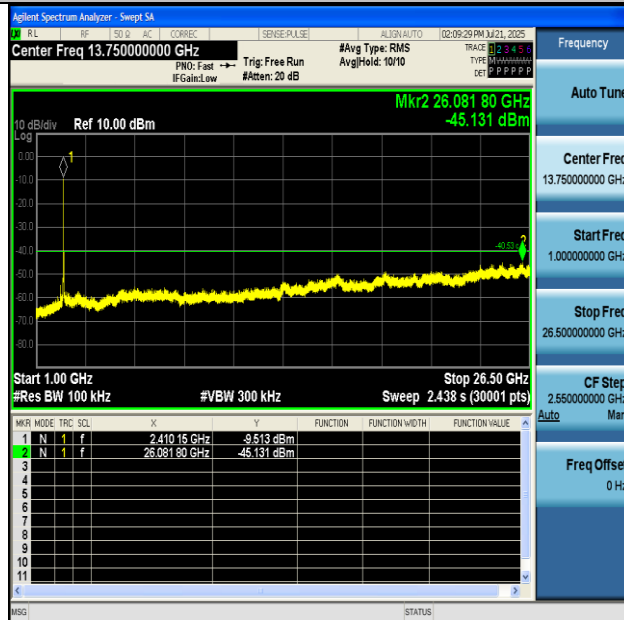
11B-Ant1-2462-1000~26500-PASS



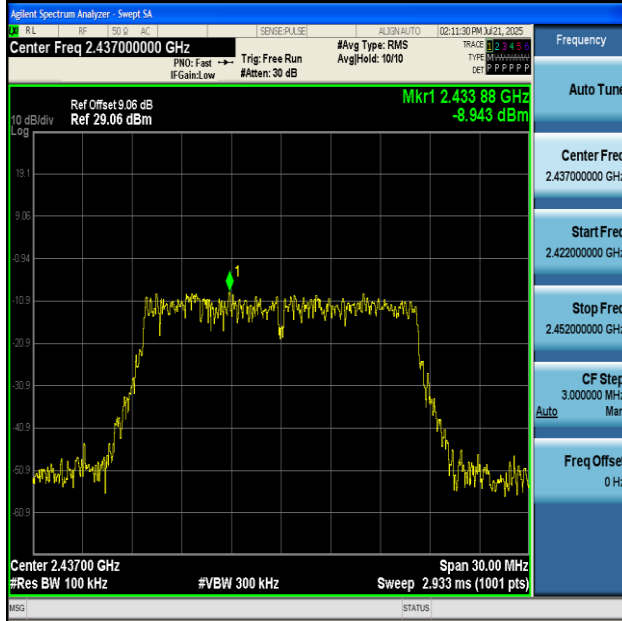
11G-Ant1-2412-0~Reference-PASS



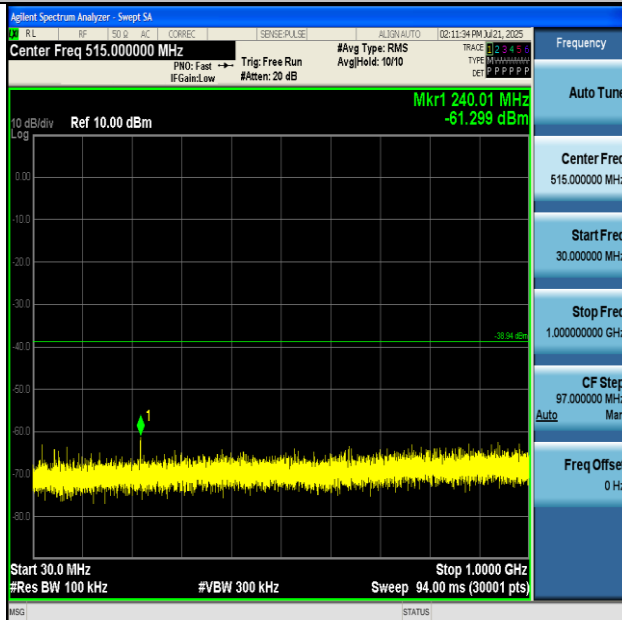
11G-Ant1-2412-30~1000-PASS



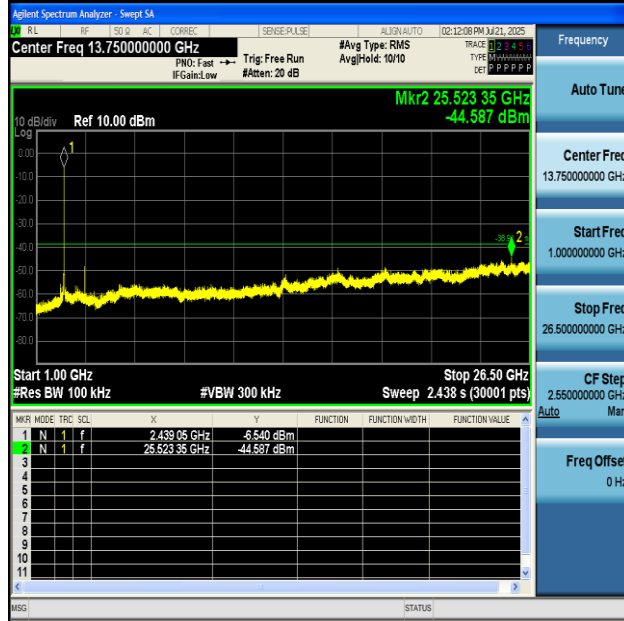
11G-Ant1-2412-1000~26500-PASS



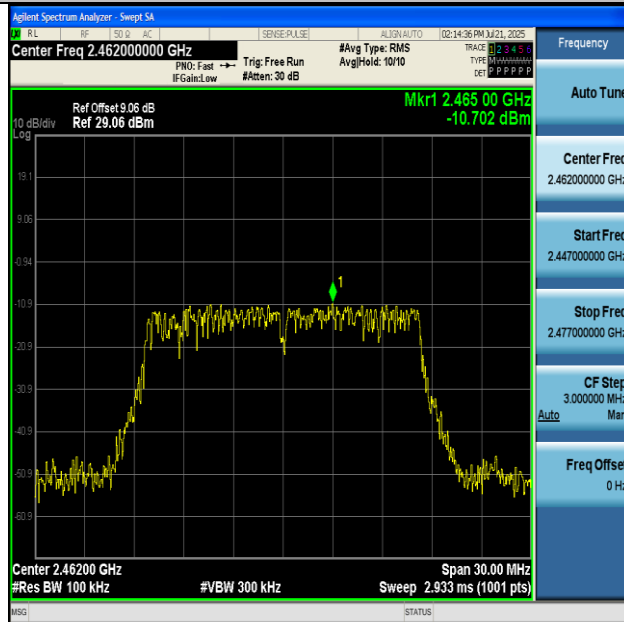
11G-Ant1-2437-0~Reference-PASS



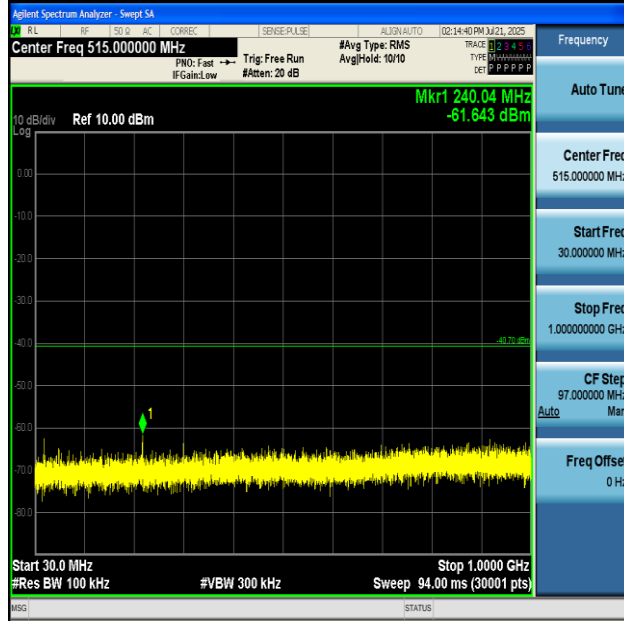
11G-Ant1-2437-30~1000-PASS



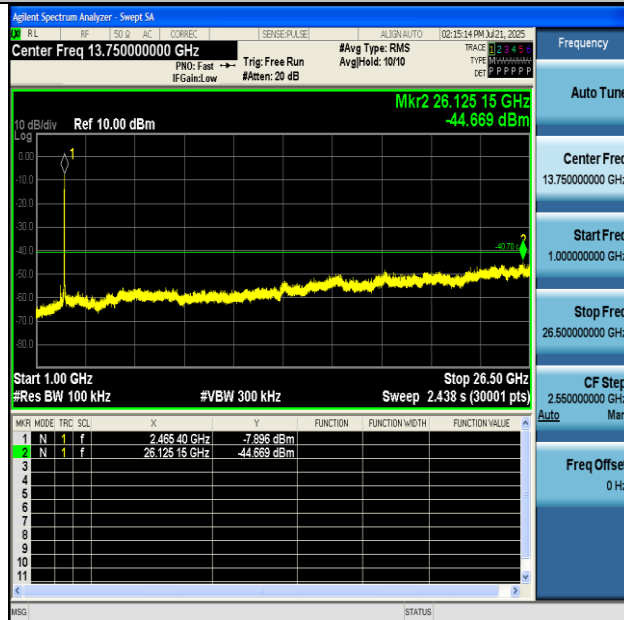
11G-Ant1-2437-1000~26500-PASS



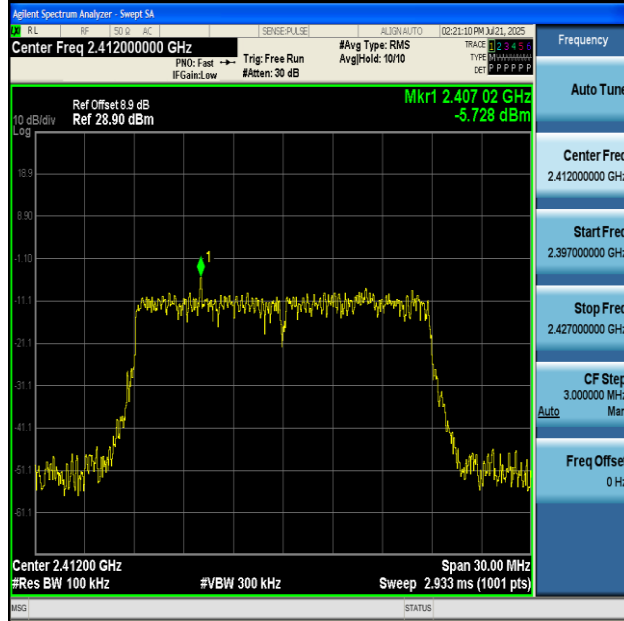
11G-Ant1-2462-0~Reference-PASS



11G-Ant1-2462-30~1000-PASS



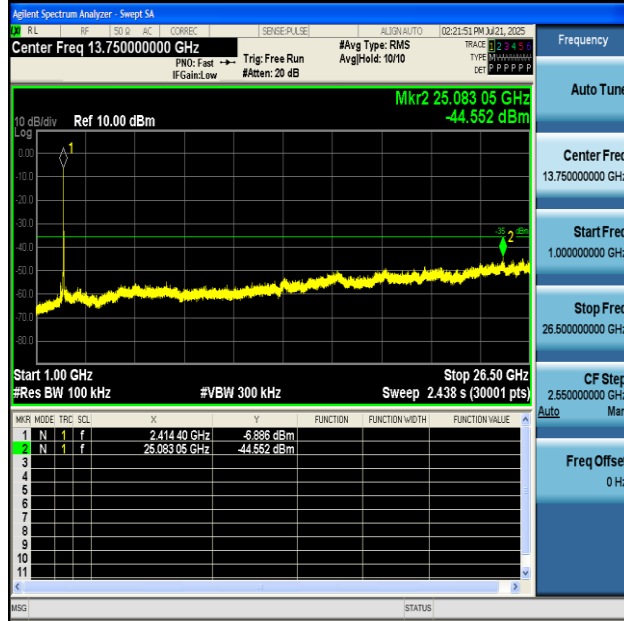
11G-Ant1-2462-1000~26500-PASS



11N20SISO-Ant1-2412-0~Reference-PASS



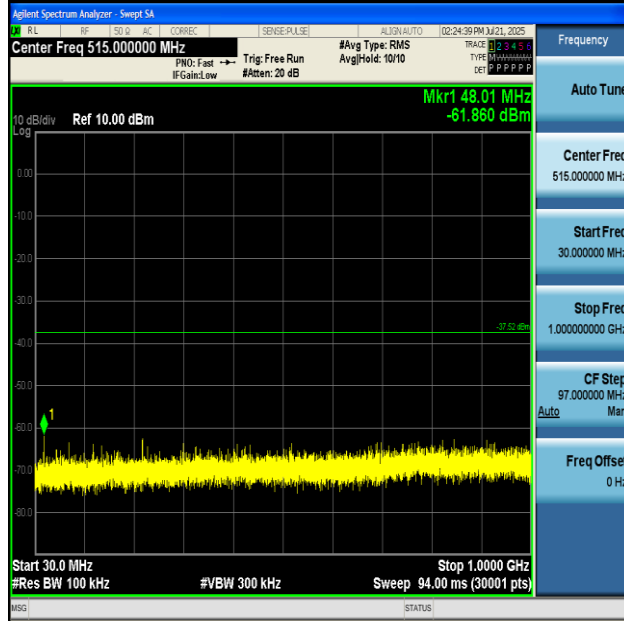
11N20SISO-Ant1-2412-30~1000-PASS



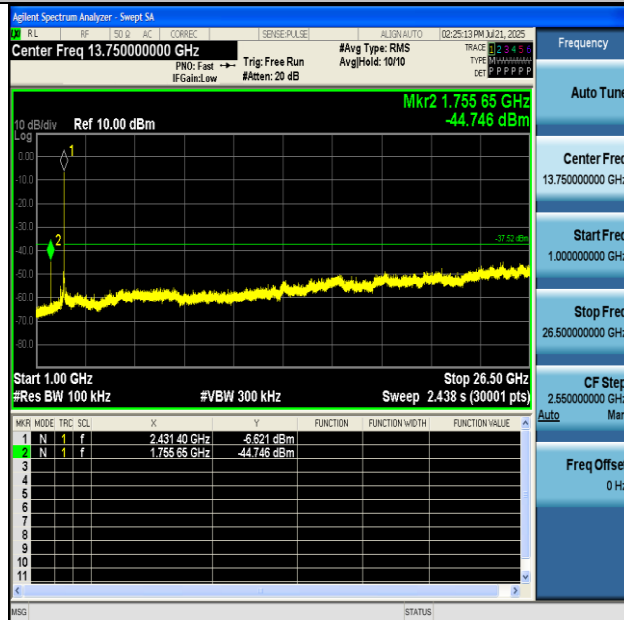
11N20SISO-Ant1-2412-1000~26500-PASS



11N20SISO-Ant1-2437-0~Reference-PASS



11N20SISO-Ant1-2437-30~1000-PASS



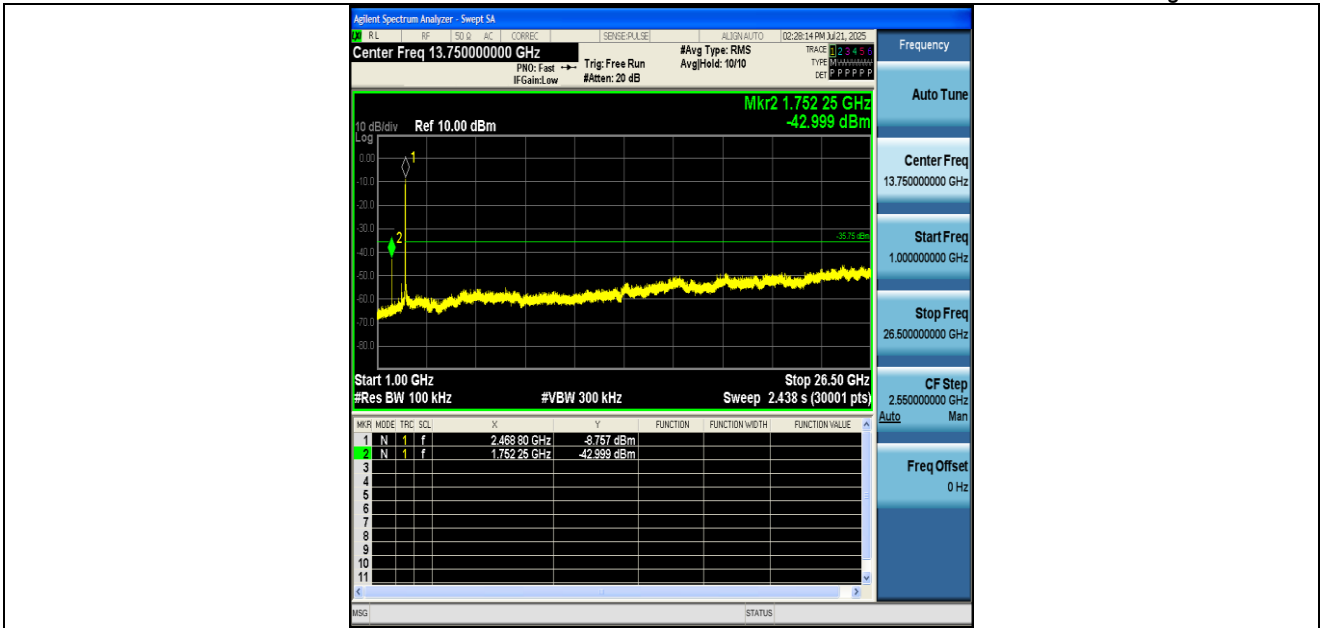
11N20SISO-Ant1-2437-1000~26500-PASS



11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

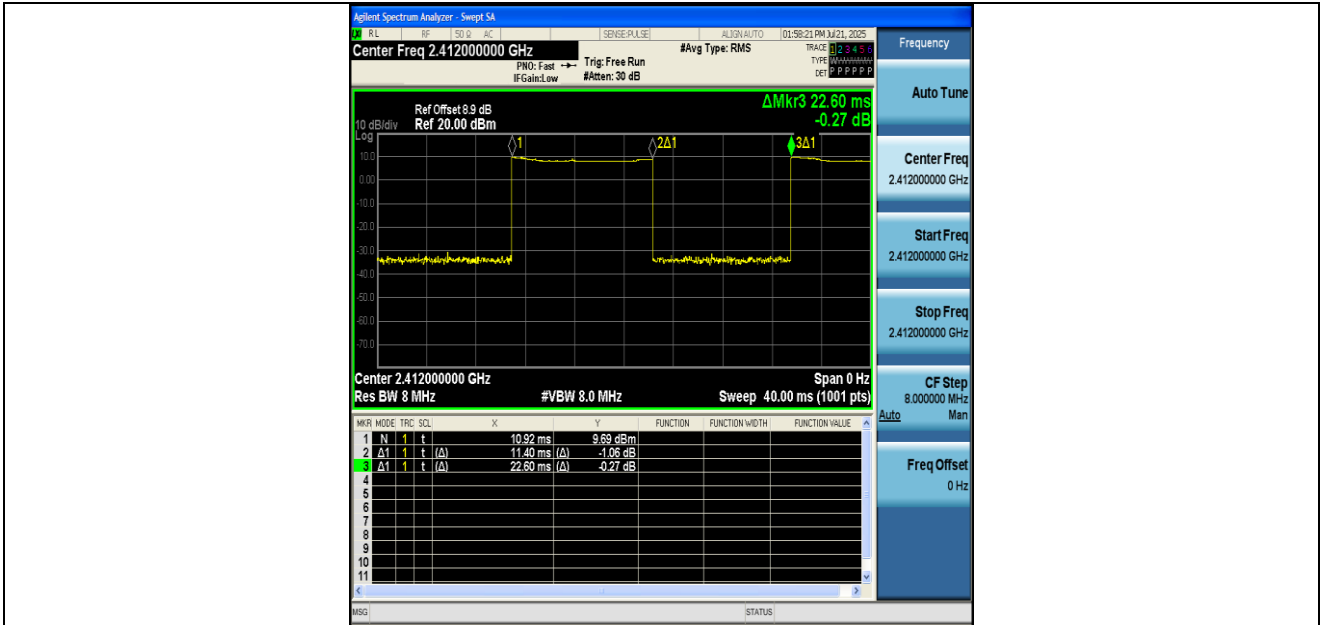
Appendix G: Duty Cycle

Test Result

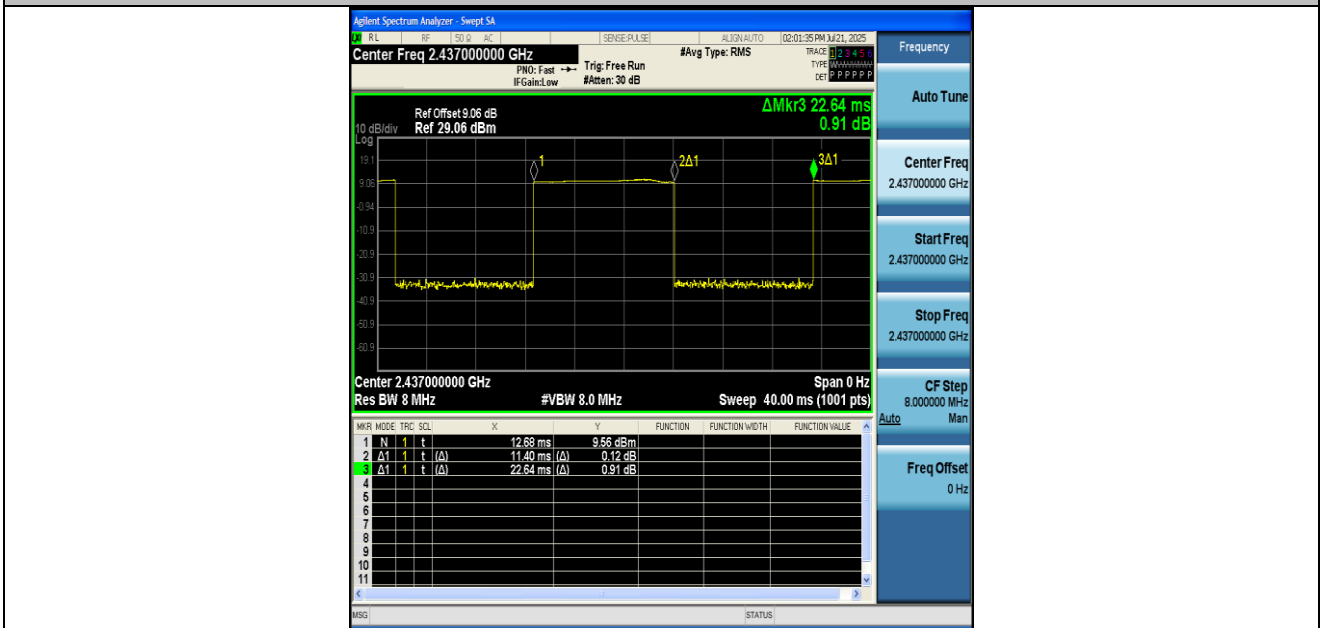
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	11.40	22.60	50.44	2.97
11B	Ant1	2437	11.40	22.64	50.35	2.98
11B	Ant1	2462	11.40	22.72	50.18	2.99
11G	Ant1	2412	1.88	6.36	29.56	5.29
11G	Ant1	2437	1.88	3.76	50.00	3.01
11G	Ant1	2462	1.88	5.36	35.07	4.55
11N20SISO	Ant1	2412	1.76	4.28	41.12	3.86
11N20SISO	Ant1	2437	1.76	3.52	50.00	3.01
11N20SISO	Ant1	2462	1.76	4.96	35.48	4.50

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

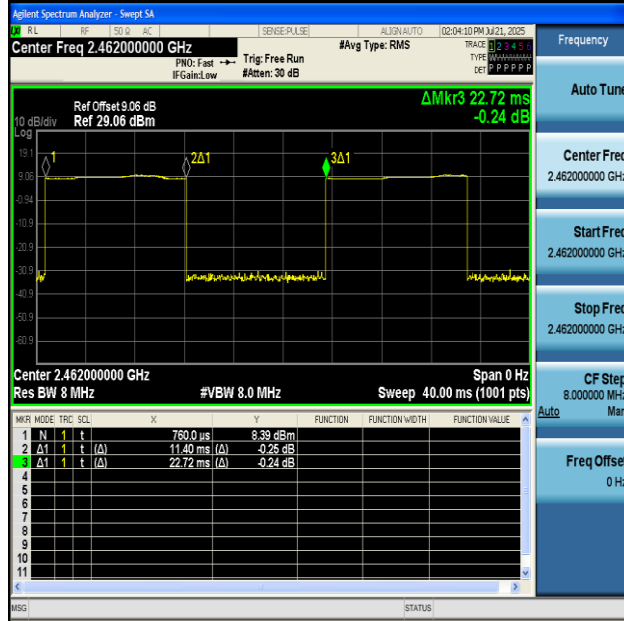
Test Graphs



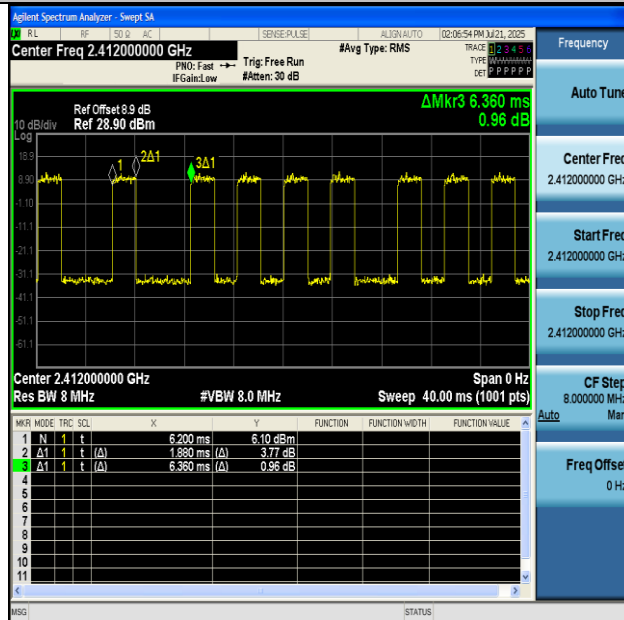
NTNV-11B-Ant1-2412



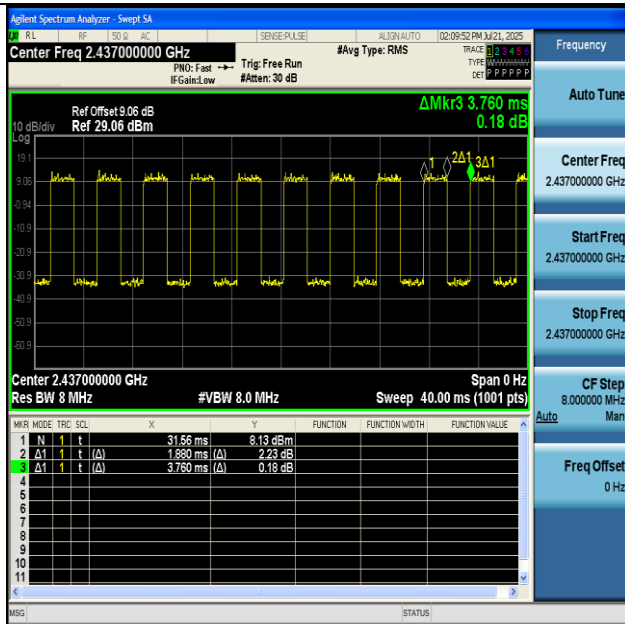
NTNV-11B-Ant1-2437



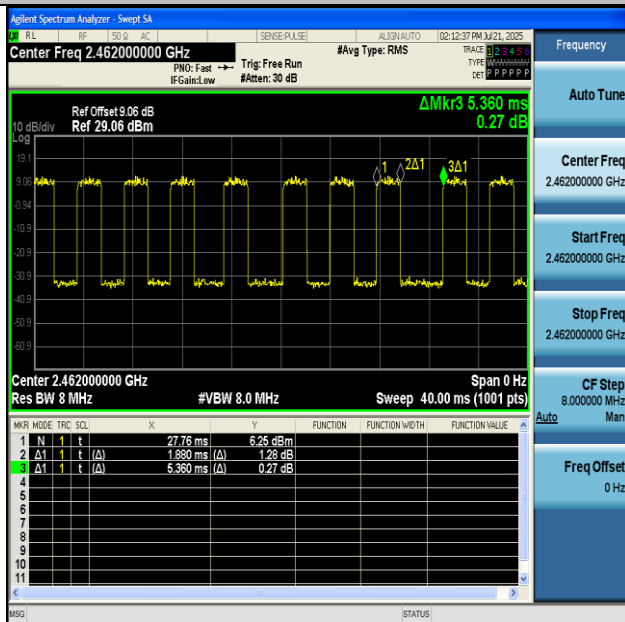
NTNV-11B-Ant1-2462



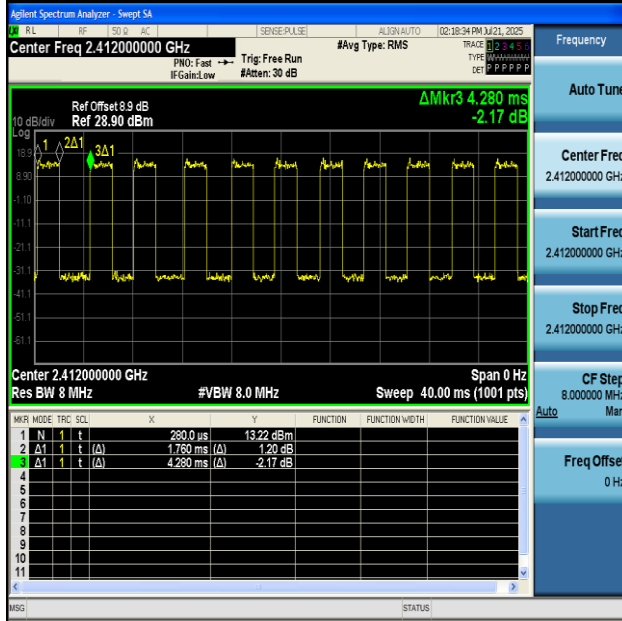
NTNV-11G-Ant1-2412



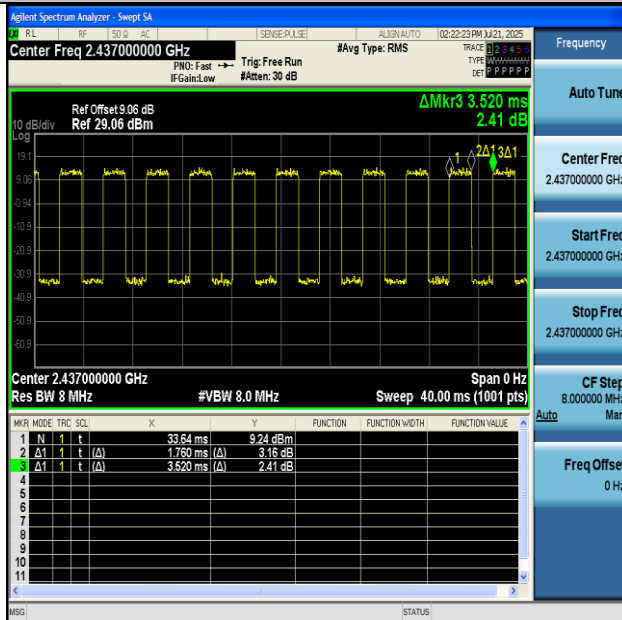
NTNV-11G-Ant1-2437



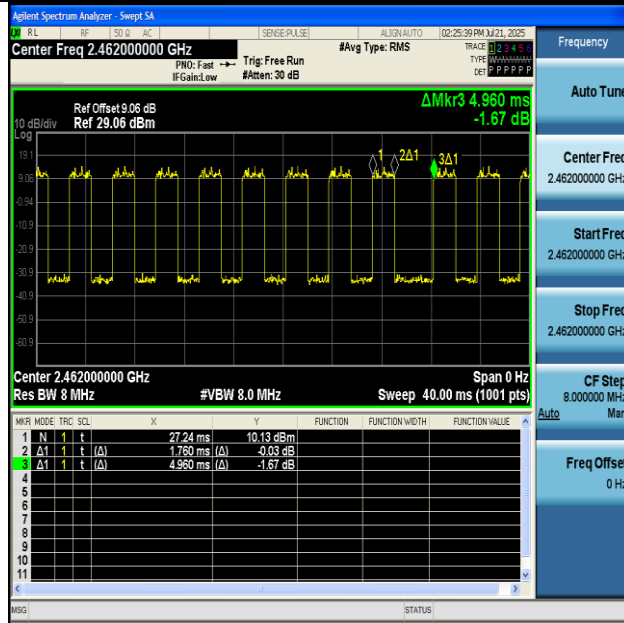
NTNV-11G-Ant1-2462



NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462