

Appendix Test Data for SRD (Conducted Measurement)

Product Name: R/C CAR

Trade Mark: /

Test Model: R-251S

FCC ID: 2AIOGR-251STO254S

Environmental Conditions

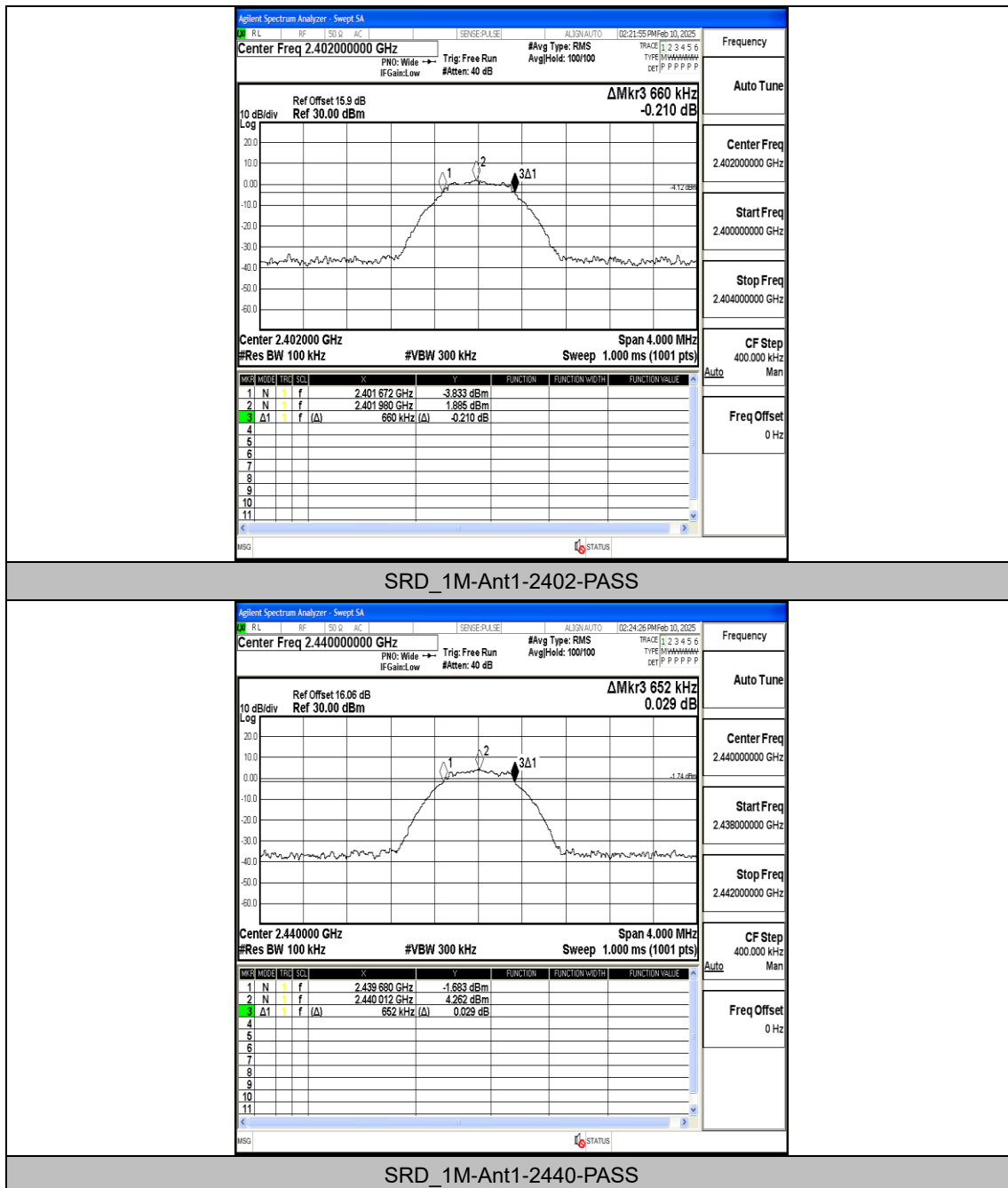
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

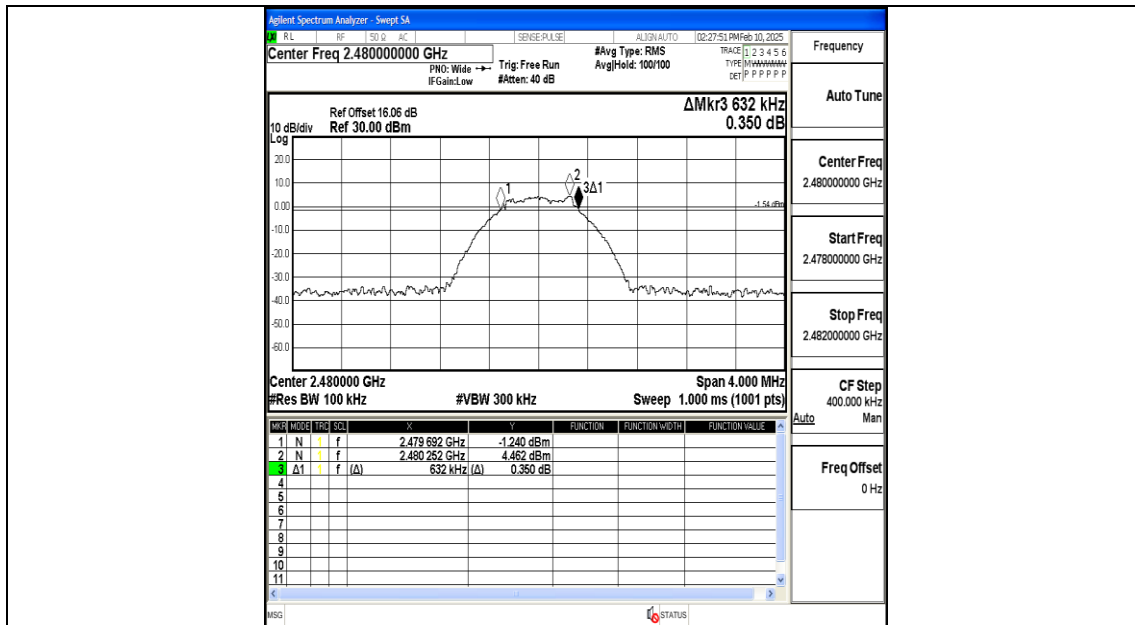
Appendix A: DTS Bandwidth

Test Result

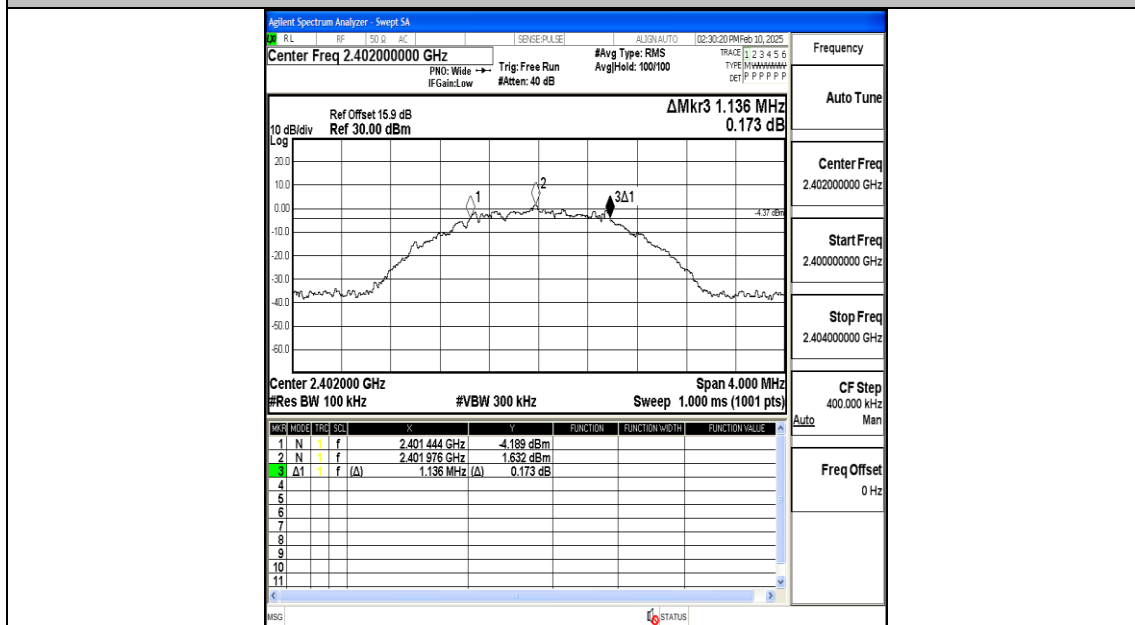
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD_1M	Ant1	2402	0.660	2401.672	2402.332	0.5	PASS
SRD_1M	Ant1	2440	0.652	2439.680	2440.332	0.5	PASS
SRD_1M	Ant1	2480	0.632	2479.692	2480.324	0.5	PASS
SRD_2M	Ant1	2402	1.136	2401.444	2402.580	0.5	PASS
SRD_2M	Ant1	2440	1.120	2439.448	2440.568	0.5	PASS
SRD_2M	Ant1	2480	1.072	2479.500	2480.572	0.5	PASS

Test Graphs

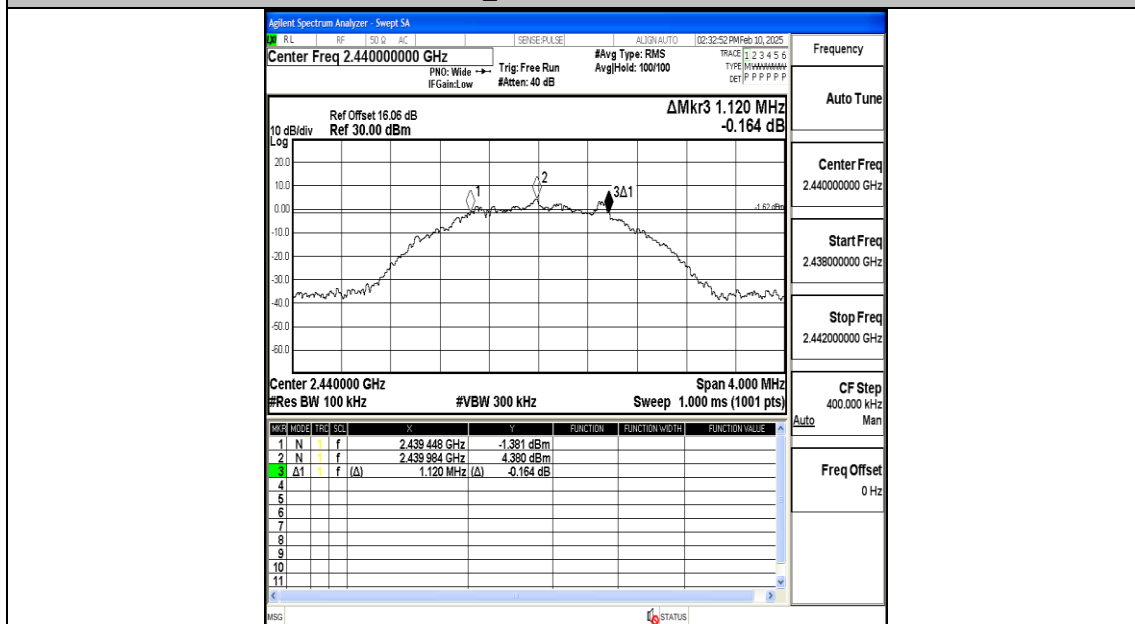




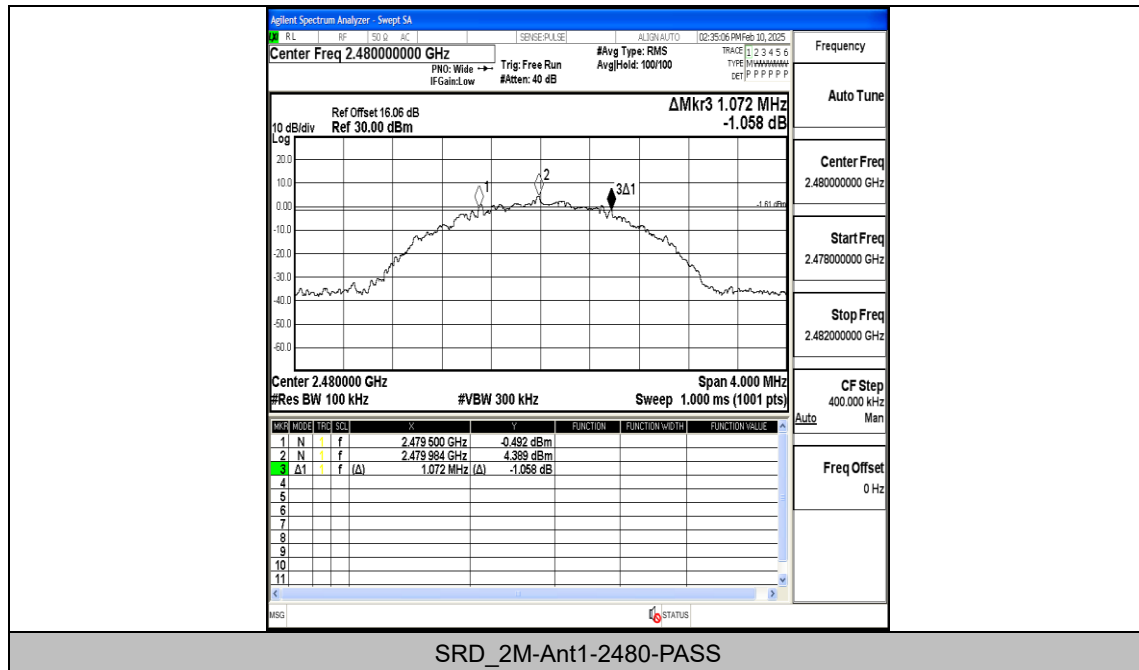
SRD_1M-Ant1-2480-PASS



SRD_2M-Ant1-2402-PASS



SRD_2M-Ant1-2440-PASS

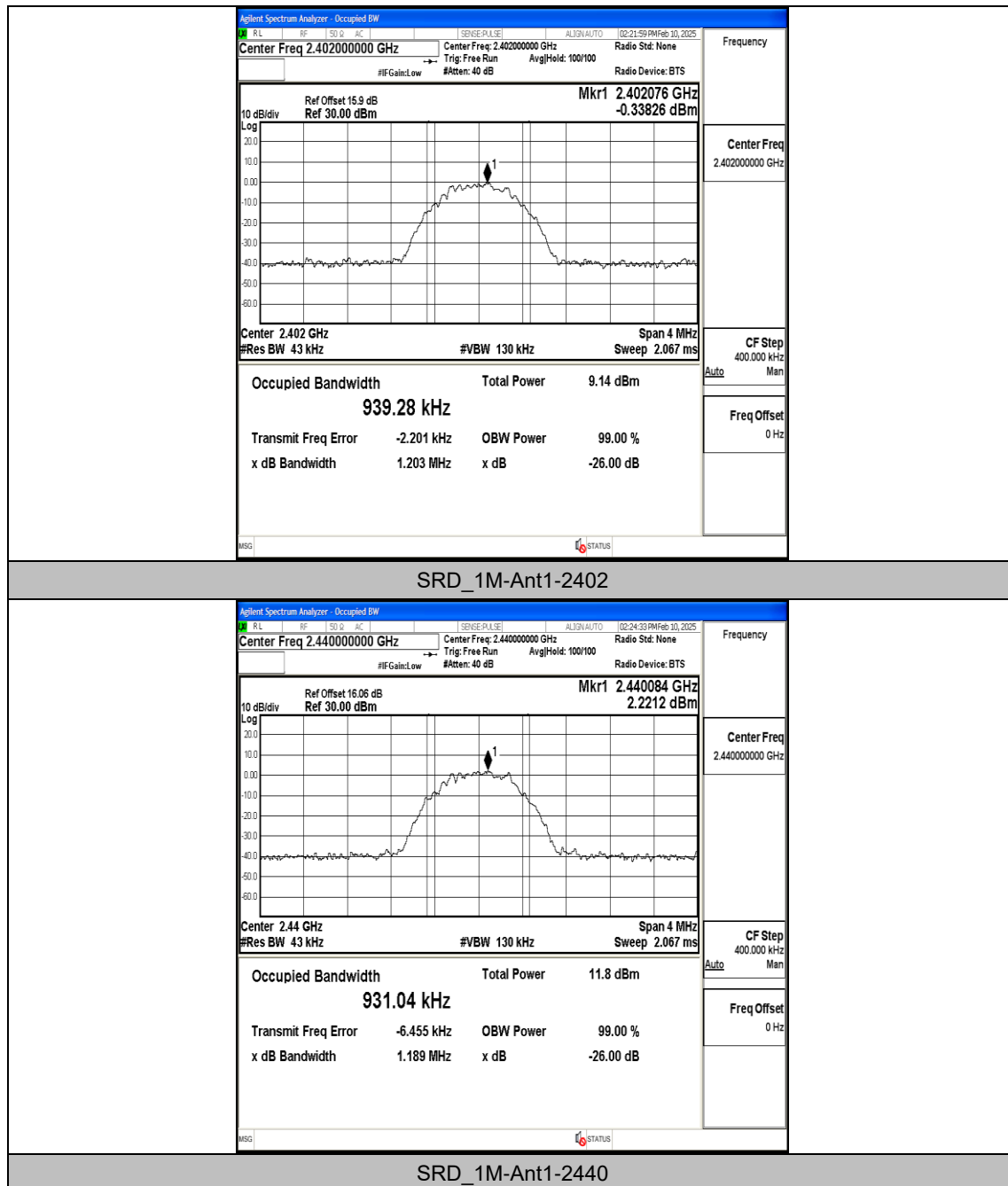


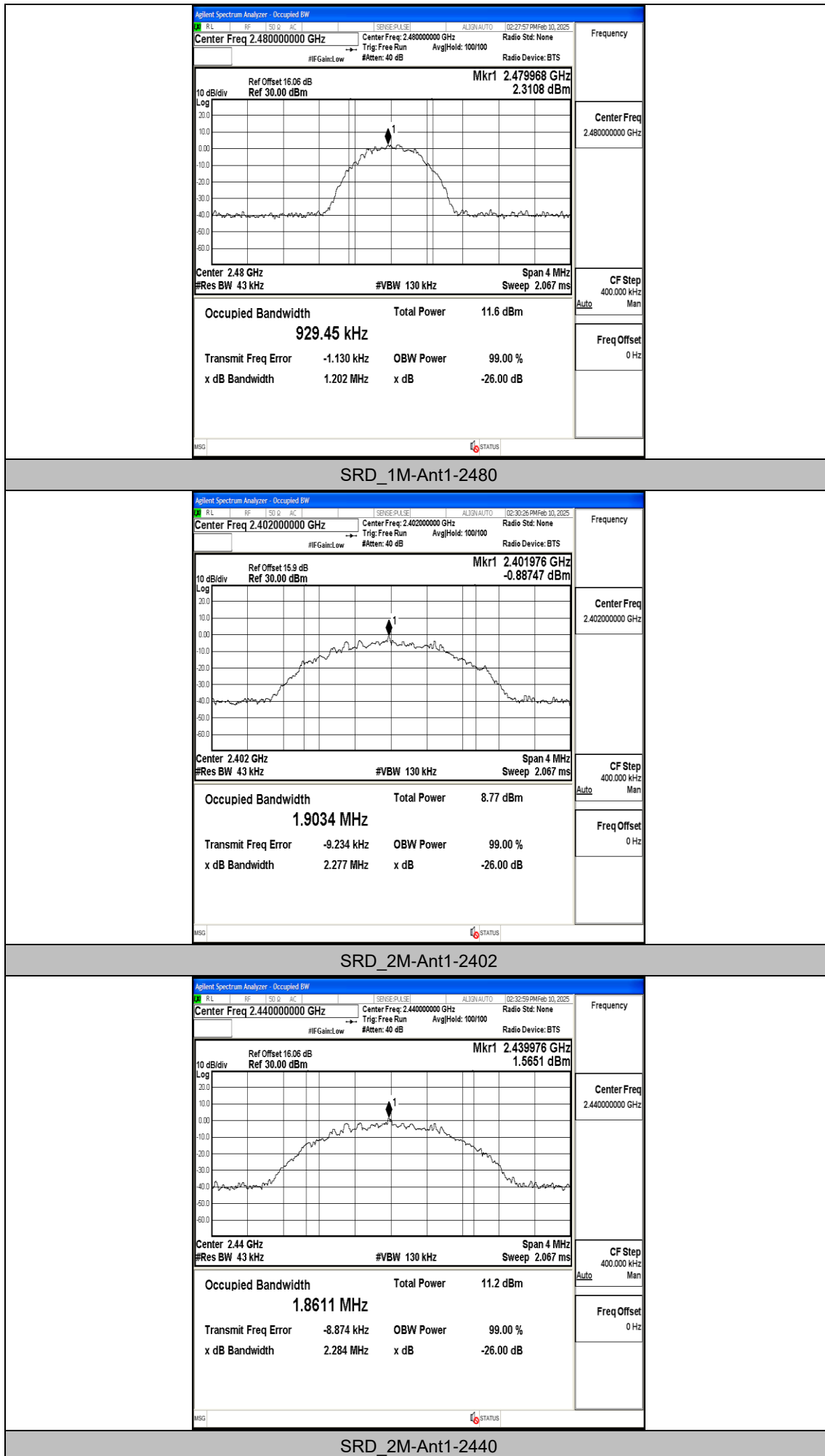
Appendix B: Occupied Channel Bandwidth

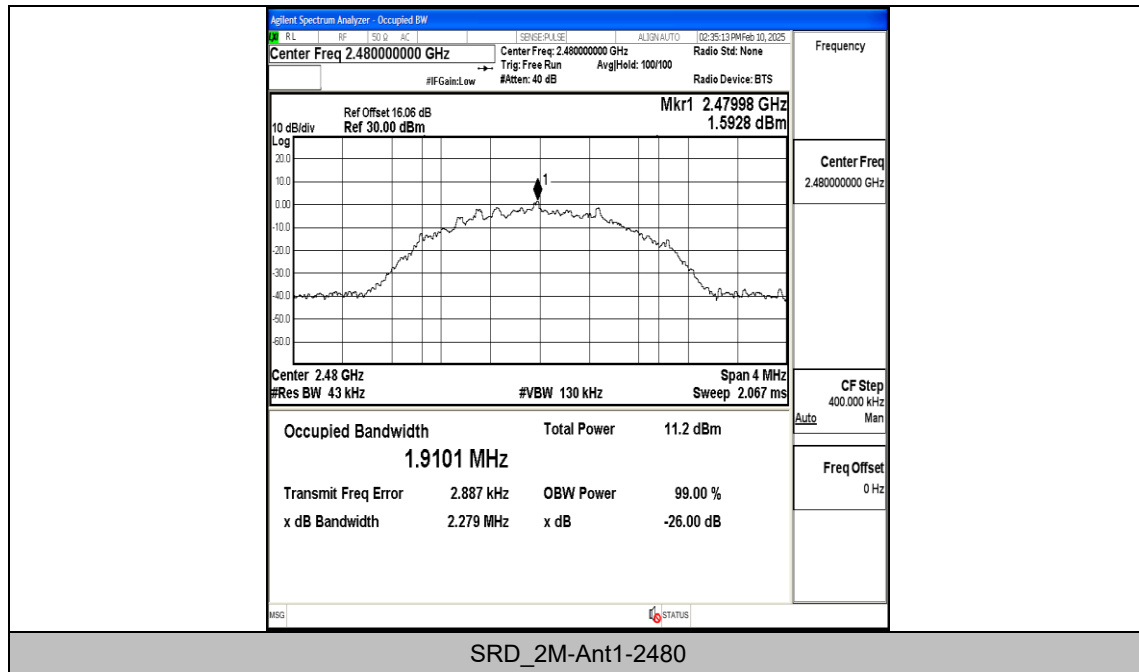
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD_1M	Ant1	2402	0.93928	2401.5282	2402.4674	---	---
SRD_1M	Ant1	2440	0.93104	2439.5280	2440.4591	---	---
SRD_1M	Ant1	2480	0.92945	2479.5341	2480.4636	---	---
SRD_2M	Ant1	2402	1.9034	2401.0391	2402.9425	---	---
SRD_2M	Ant1	2440	1.8611	2439.0606	2440.9217	---	---
SRD_2M	Ant1	2480	1.9101	2479.0478	2480.9579	---	---

Test Graphs





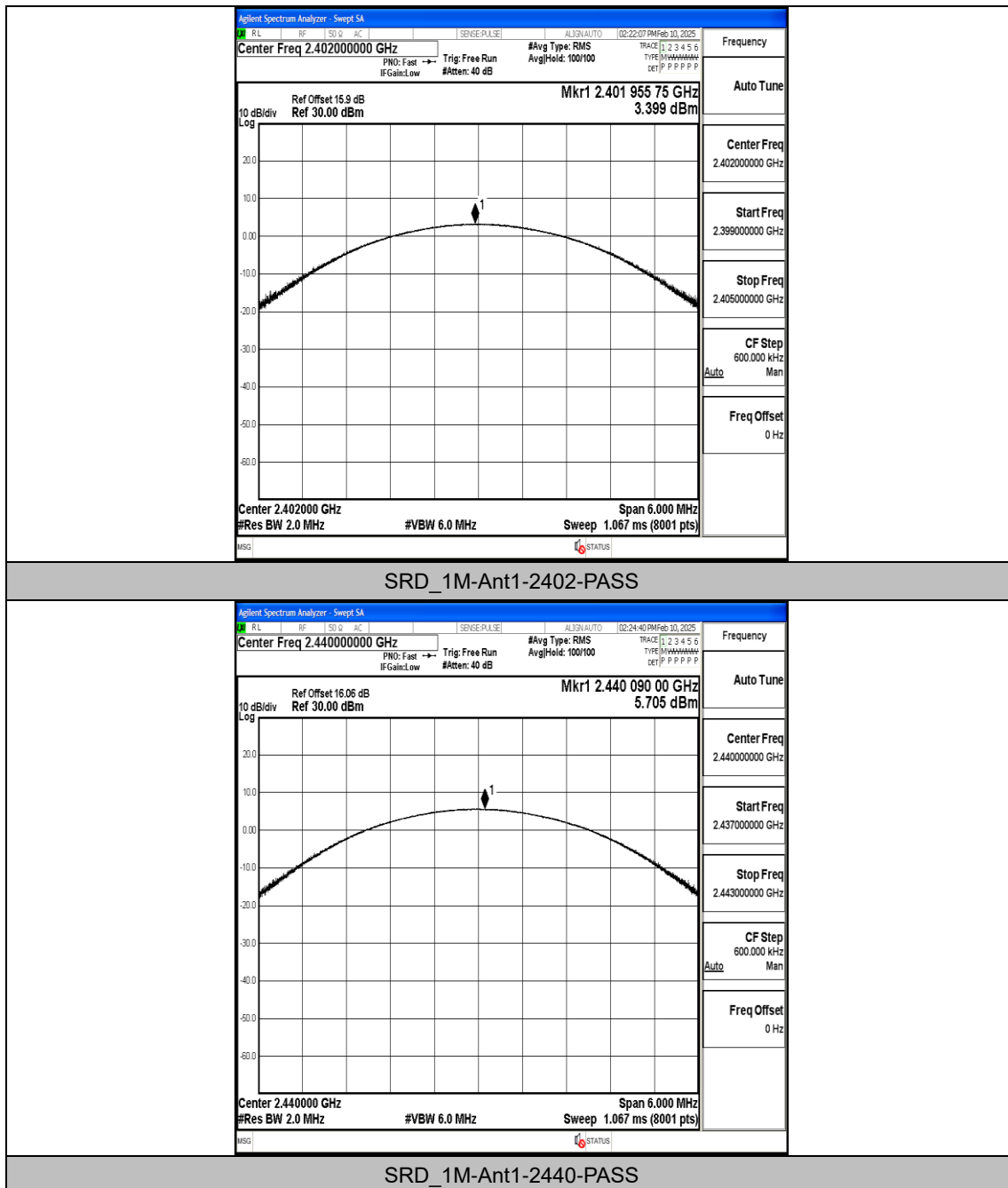


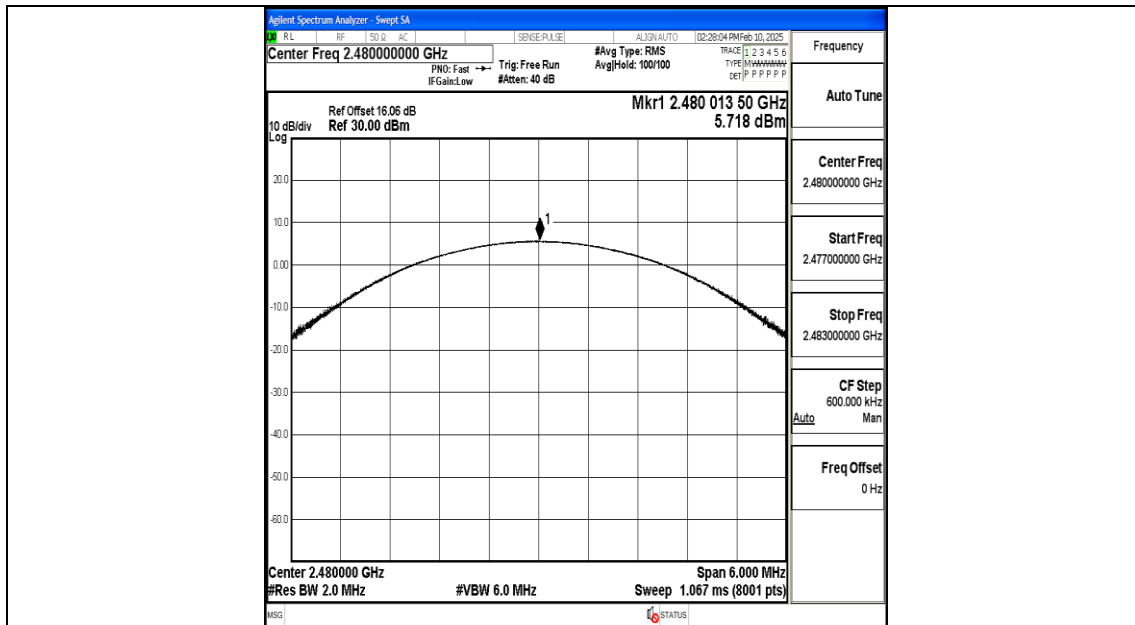
Appendix C: Maximum peak conducted output power

Test Result Peak

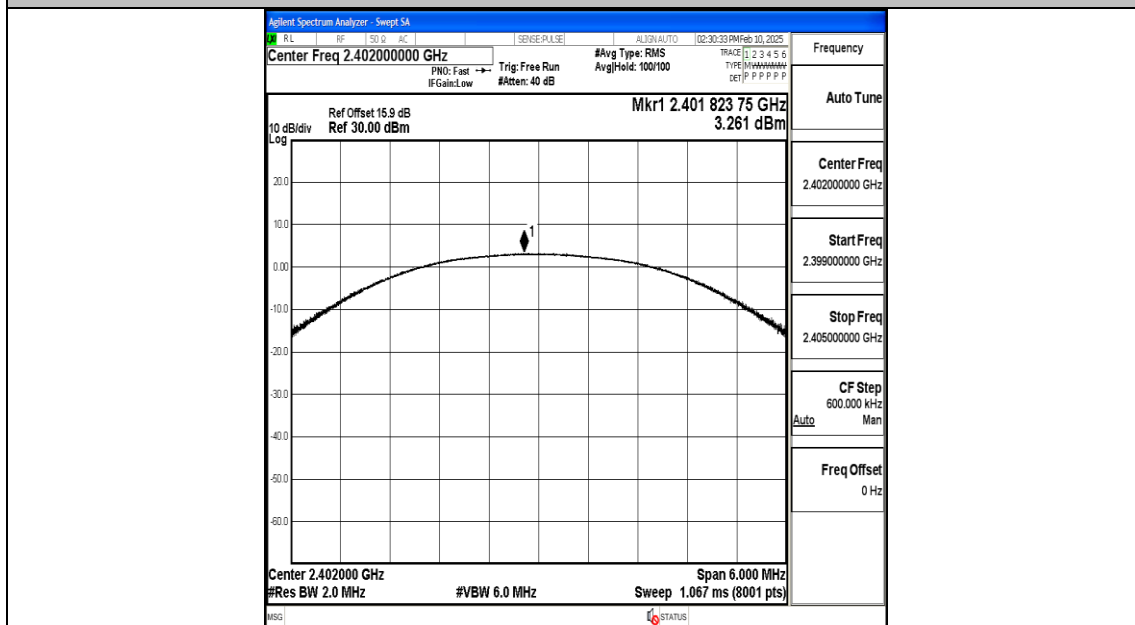
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD_1M	Ant1	2402	3.40	≤30	PASS
SRD_1M	Ant1	2440	5.71	≤30	PASS
SRD_1M	Ant1	2480	5.72	≤30	PASS
SRD_2M	Ant1	2402	3.26	≤30	PASS
SRD_2M	Ant1	2440	5.56	≤30	PASS
SRD_2M	Ant1	2480	5.68	≤30	PASS

Test Graphs Peak

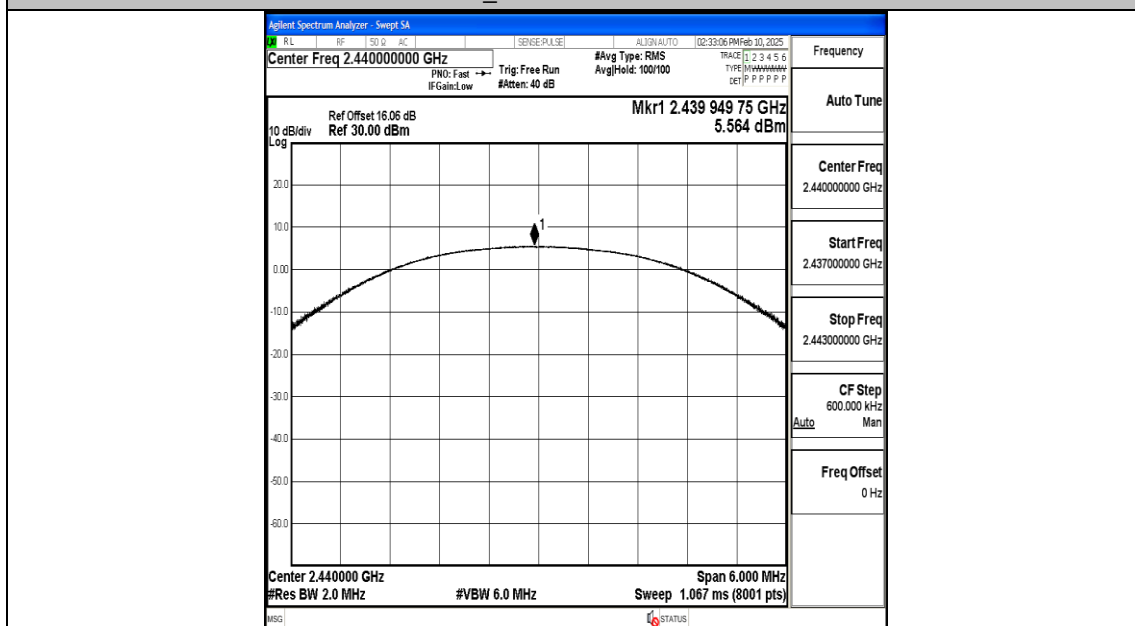




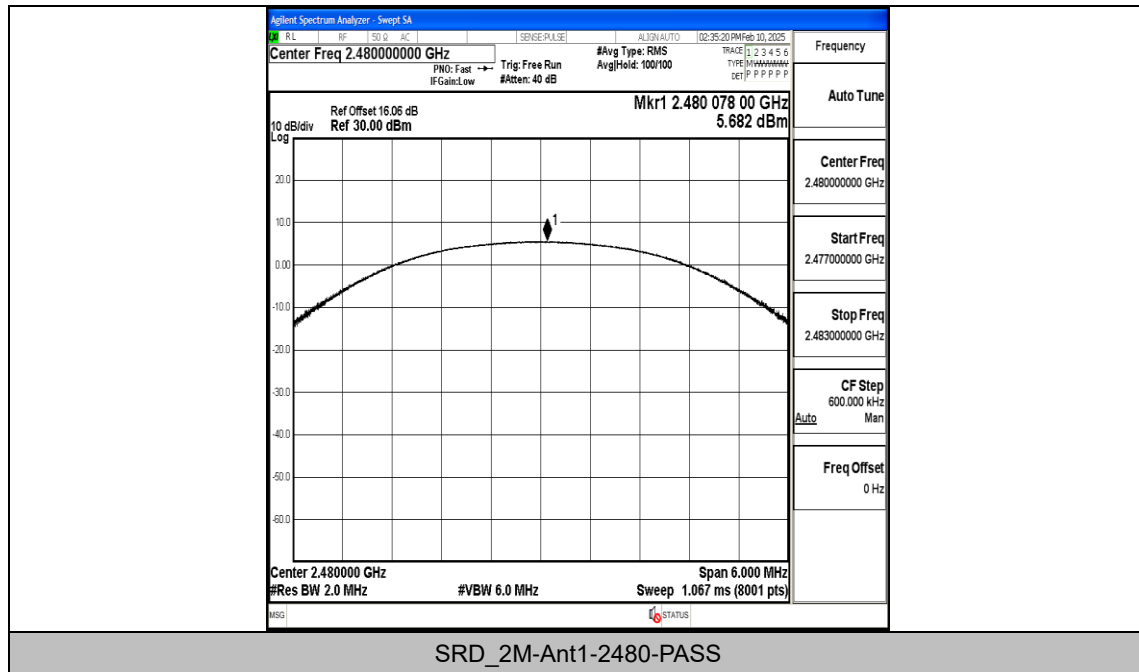
SRD_1M-Ant1-2480-PASS



SRD_2M-Ant1-2402-PASS



SRD_2M-Ant1-2440-PASS

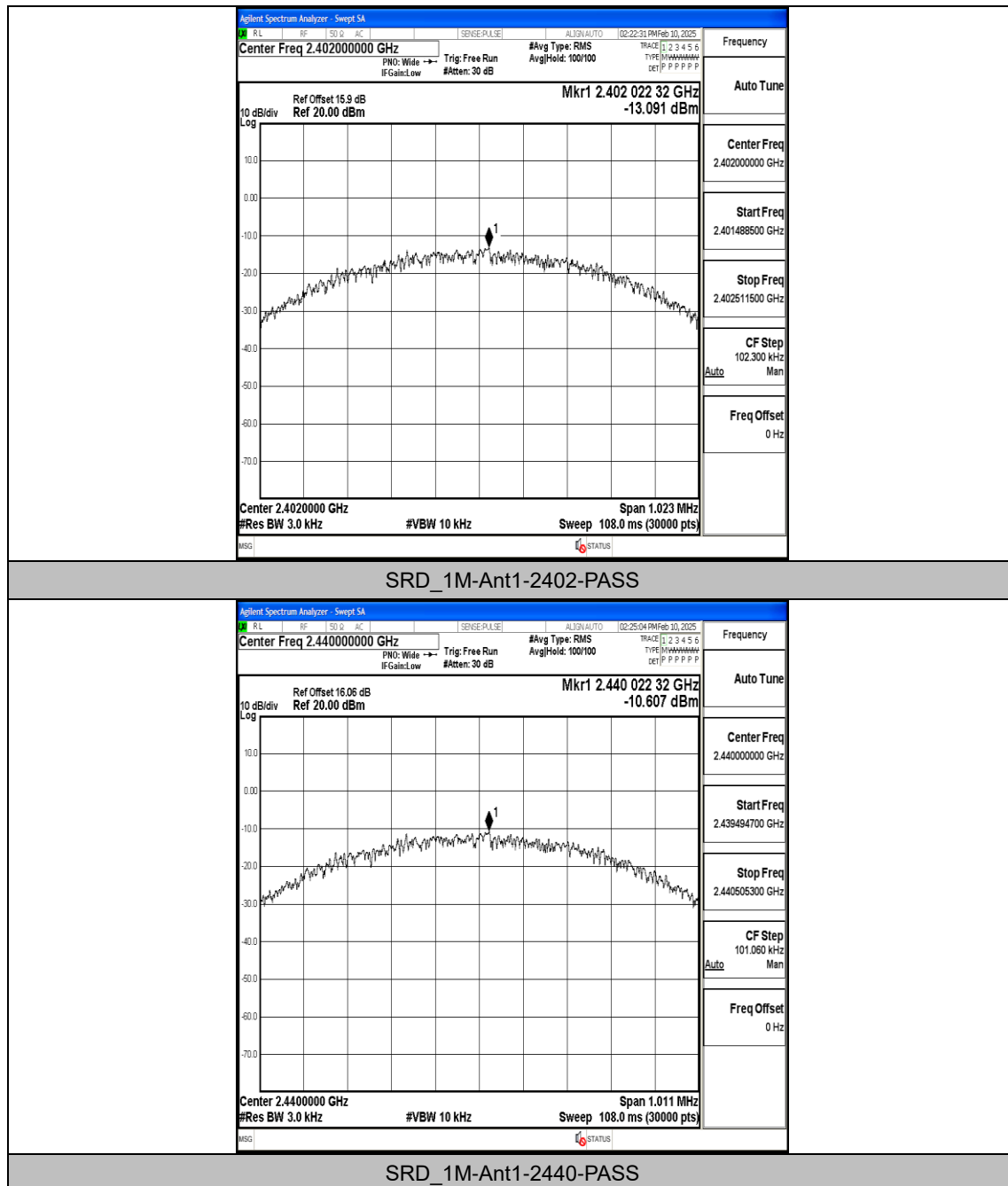


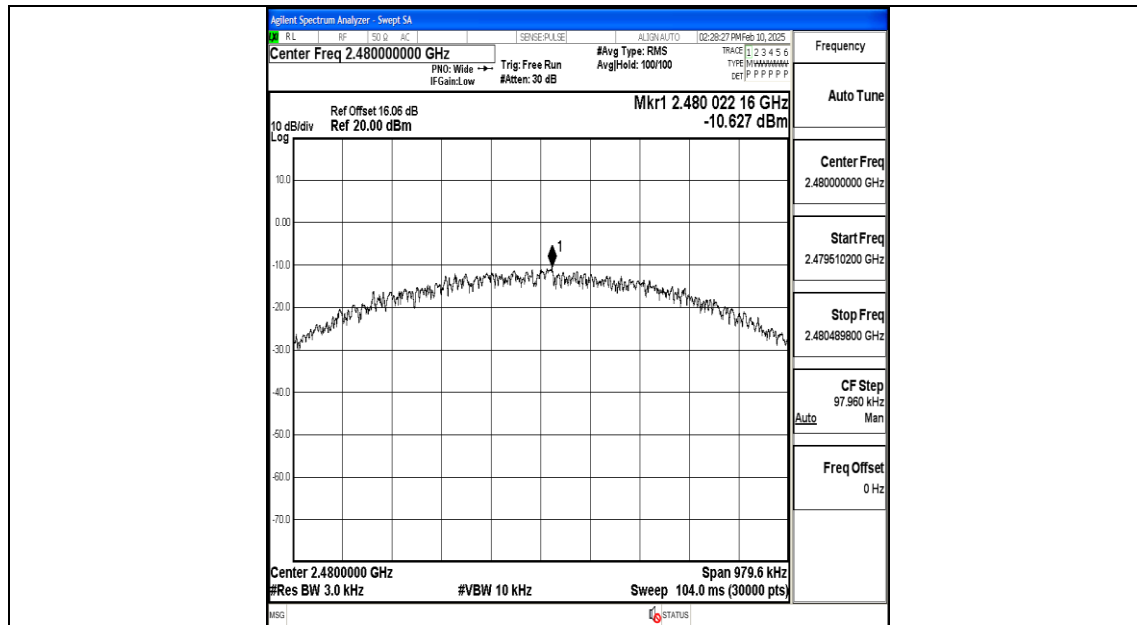
Appendix D: Maximum peak power spectral density

Test Result

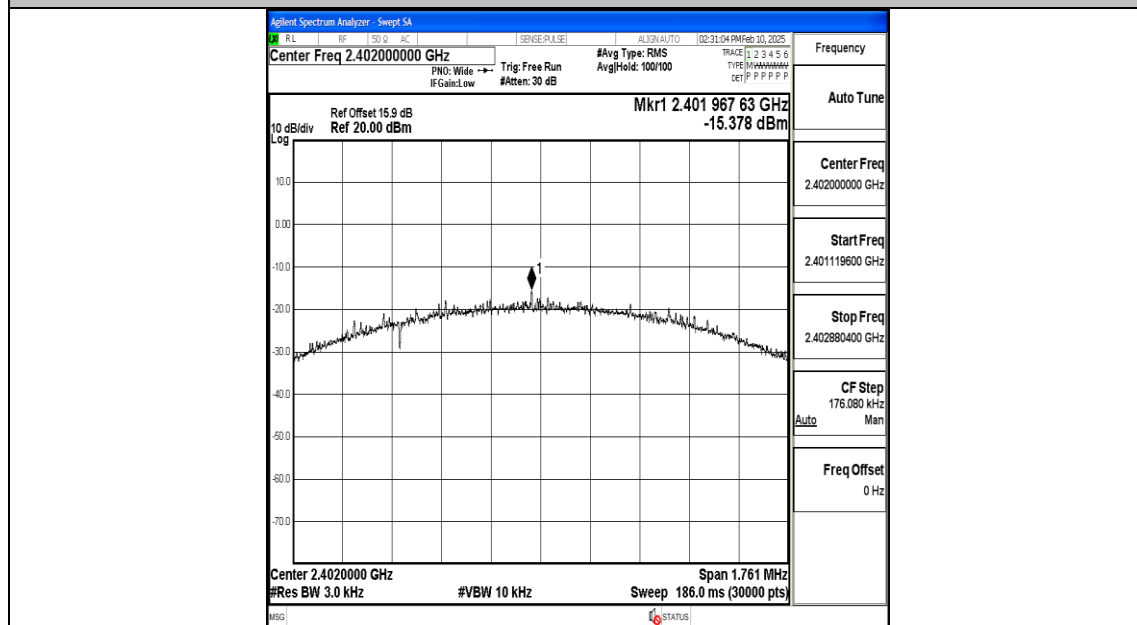
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD_1M	Ant1	2402	-13.09	≤8.00	PASS
SRD_1M	Ant1	2440	-10.61	≤8.00	PASS
SRD_1M	Ant1	2480	-10.63	≤8.00	PASS
SRD_2M	Ant1	2402	-15.38	≤8.00	PASS
SRD_2M	Ant1	2440	-13.05	≤8.00	PASS
SRD_2M	Ant1	2480	-12.95	≤8.00	PASS

Test Graphs

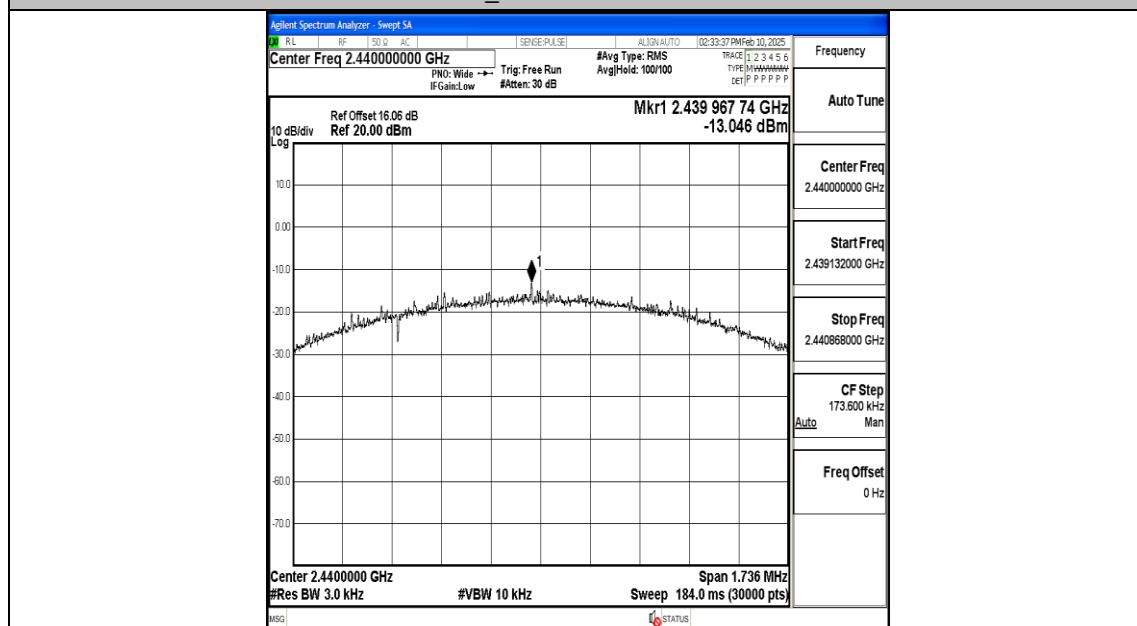




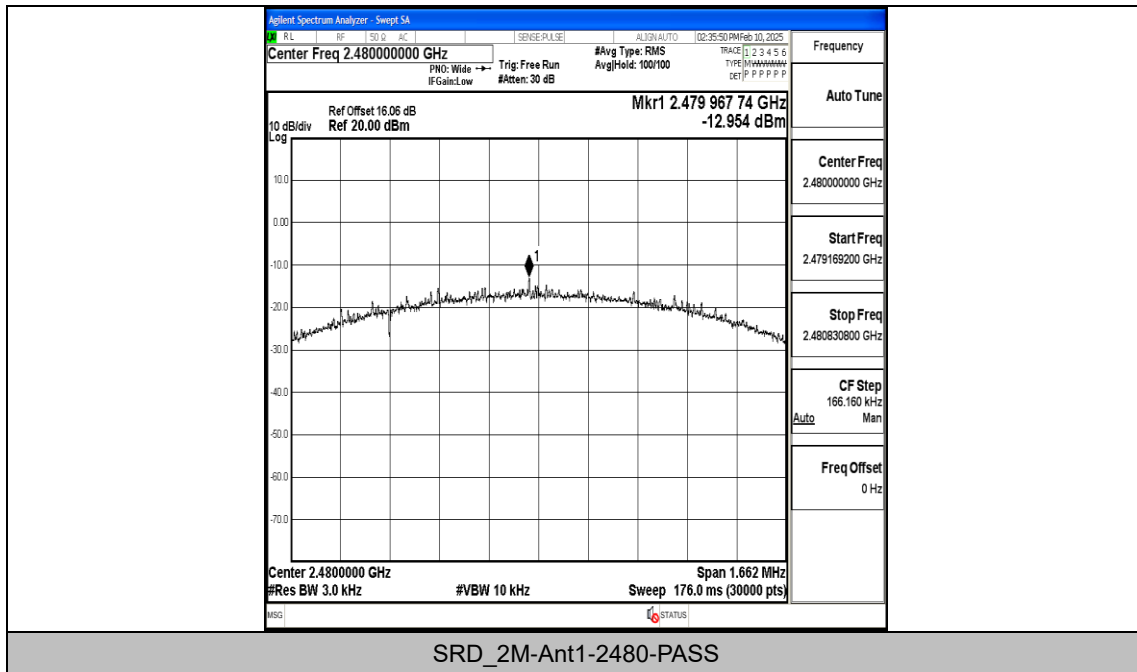
SRD_1M-Ant1-2480-PASS



SRD_2M-Ant1-2402-PASS



SRD_2M-Ant1-2440-PASS

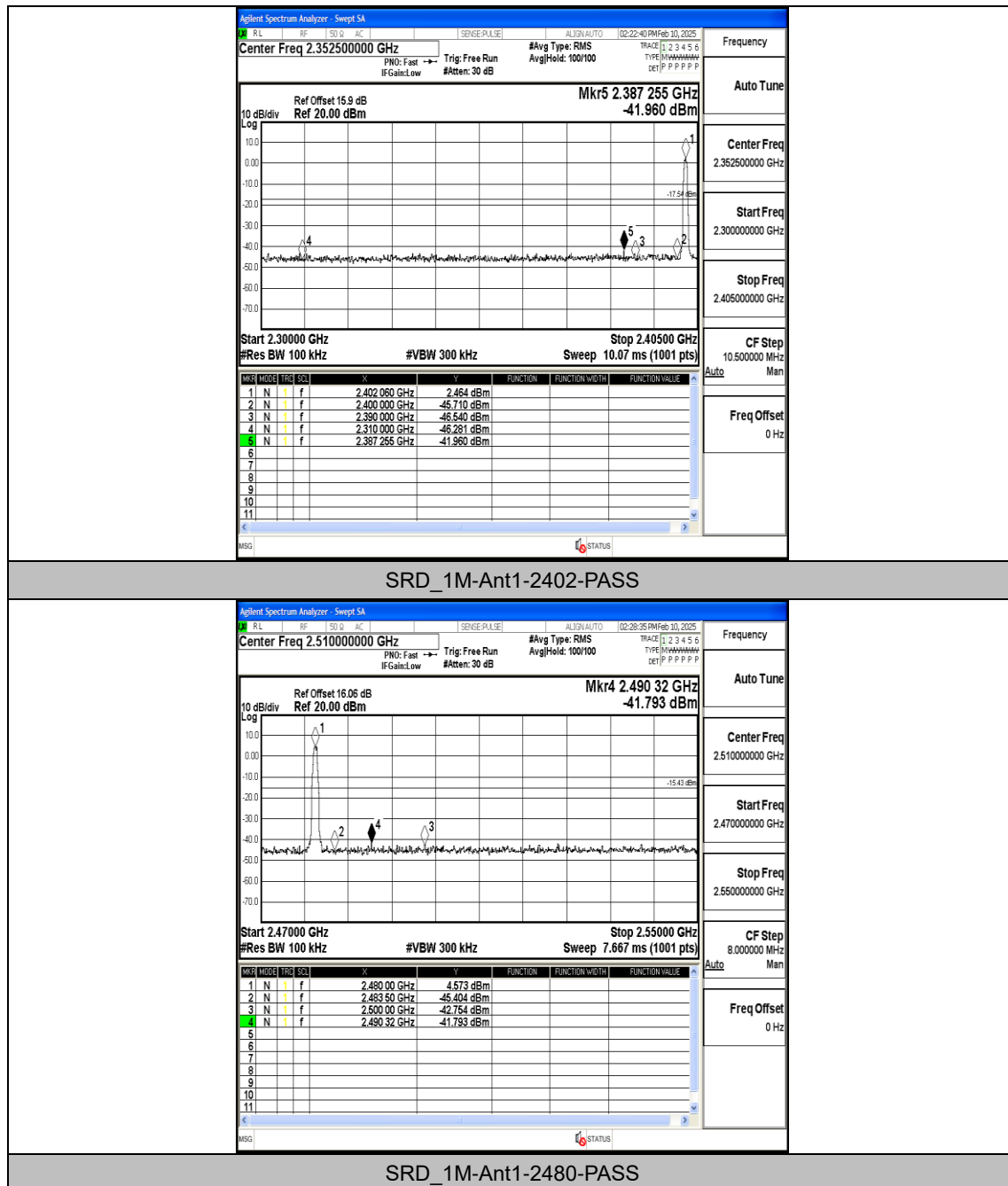


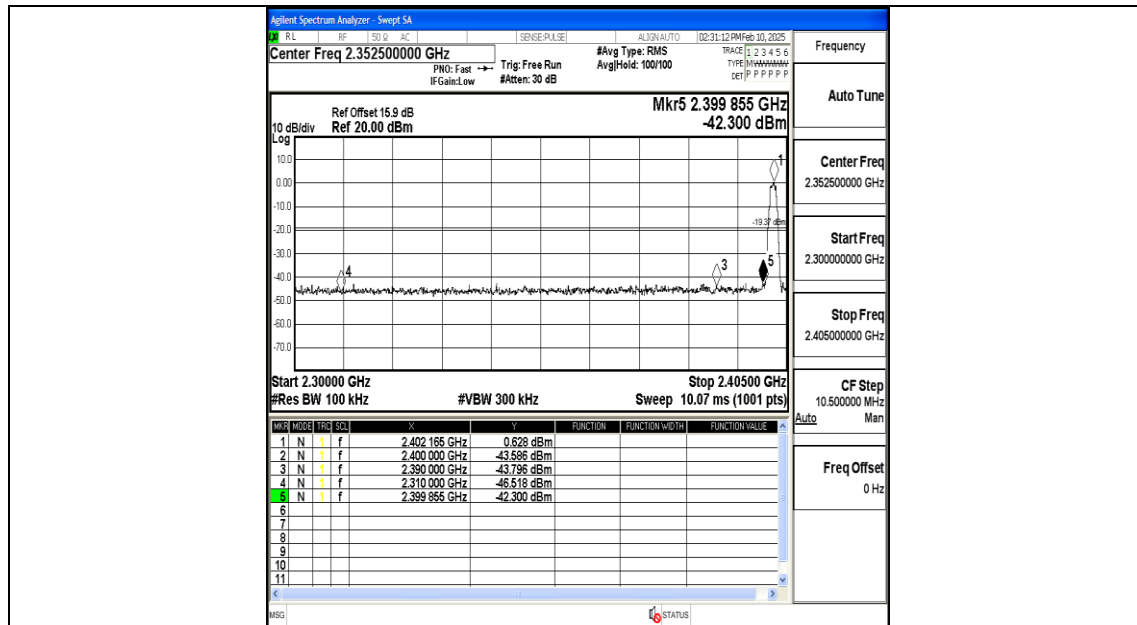
Appendix E: Band edge measurements

Test Result

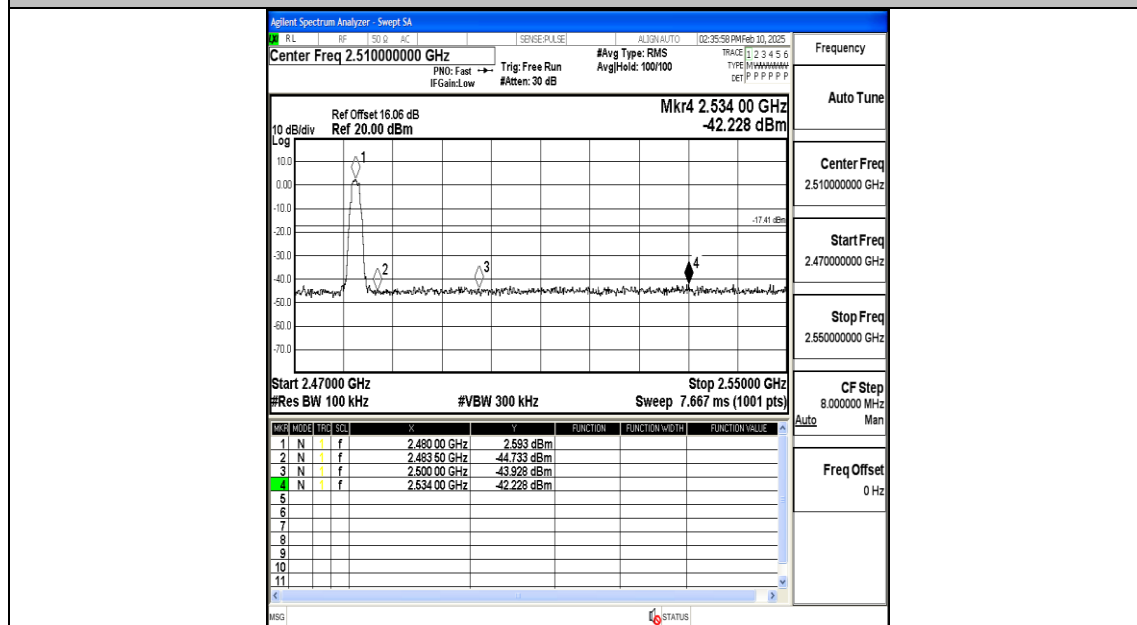
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD_1M	Ant1	Low	2402	2.46	-41.96	≤-17.54	PASS
SRD_1M	Ant1	High	2480	4.57	-41.79	≤-15.43	PASS
SRD_2M	Ant1	Low	2402	0.63	-42.3	≤-19.37	PASS
SRD_2M	Ant1	High	2480	2.59	-42.23	≤-17.41	PASS

Test Graphs





SRD_2M-Ant1-2402-PASS



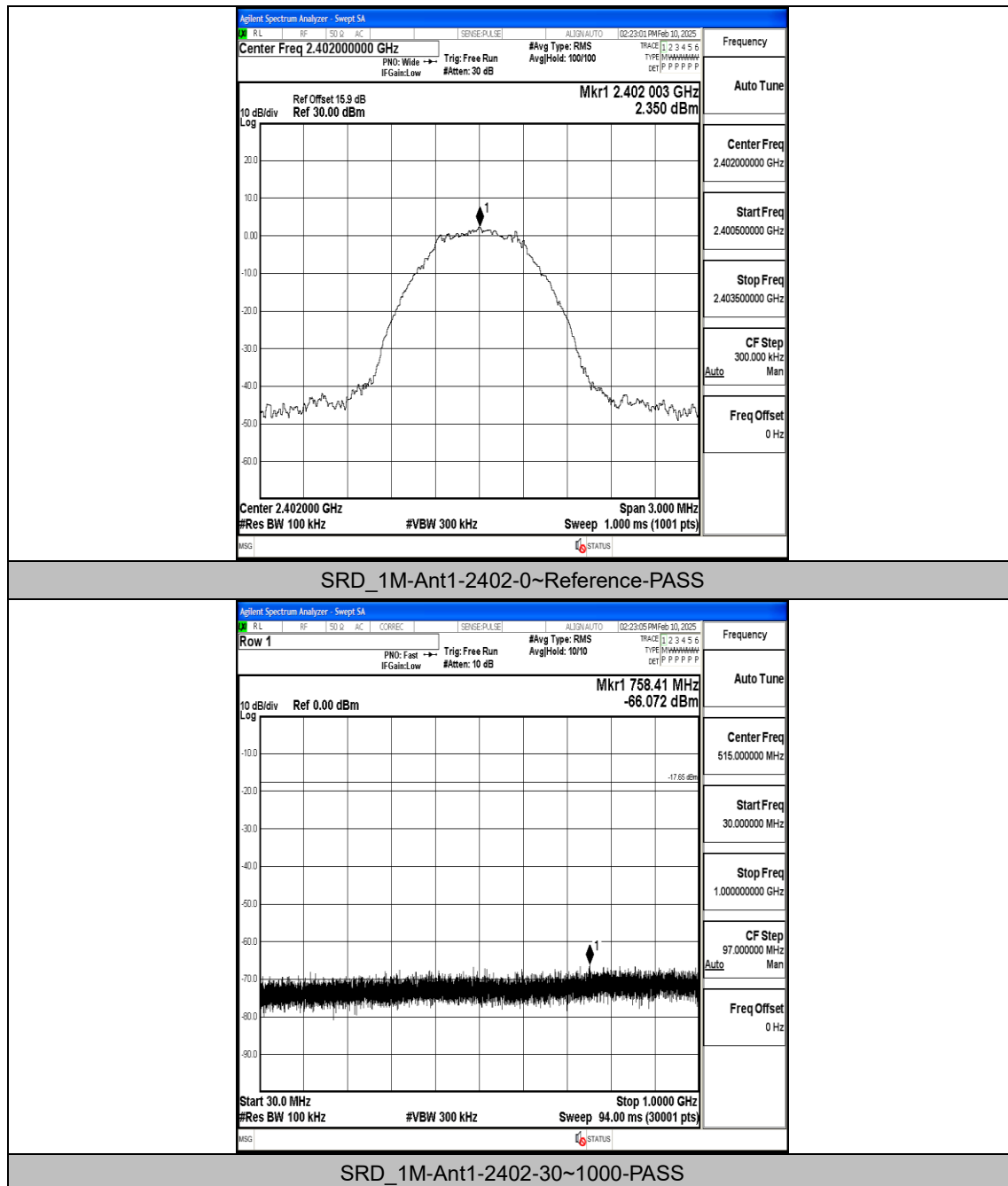
SRD_2M-Ant1-2480-PASS

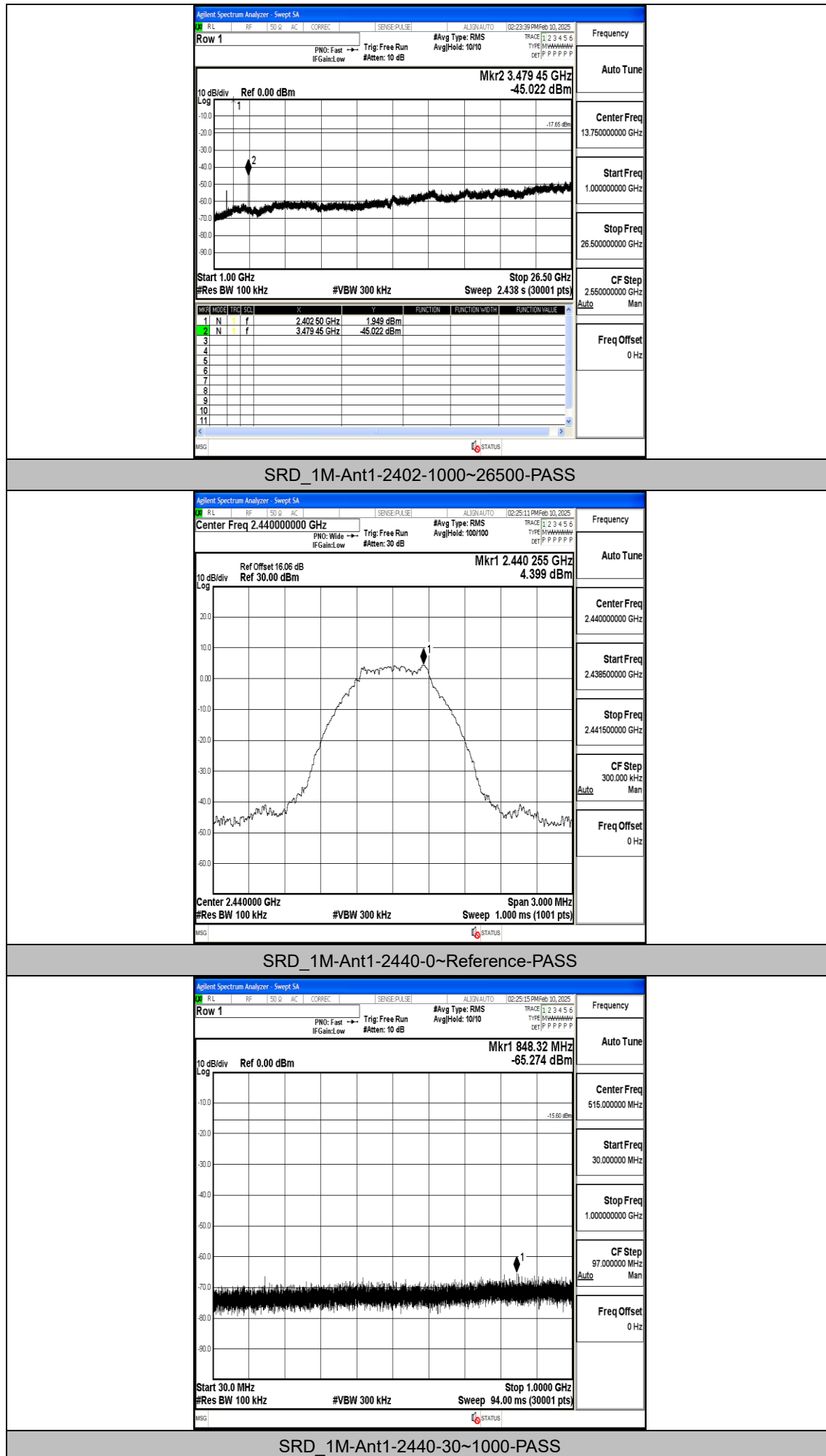
Appendix F: Conducted Spurious Emission

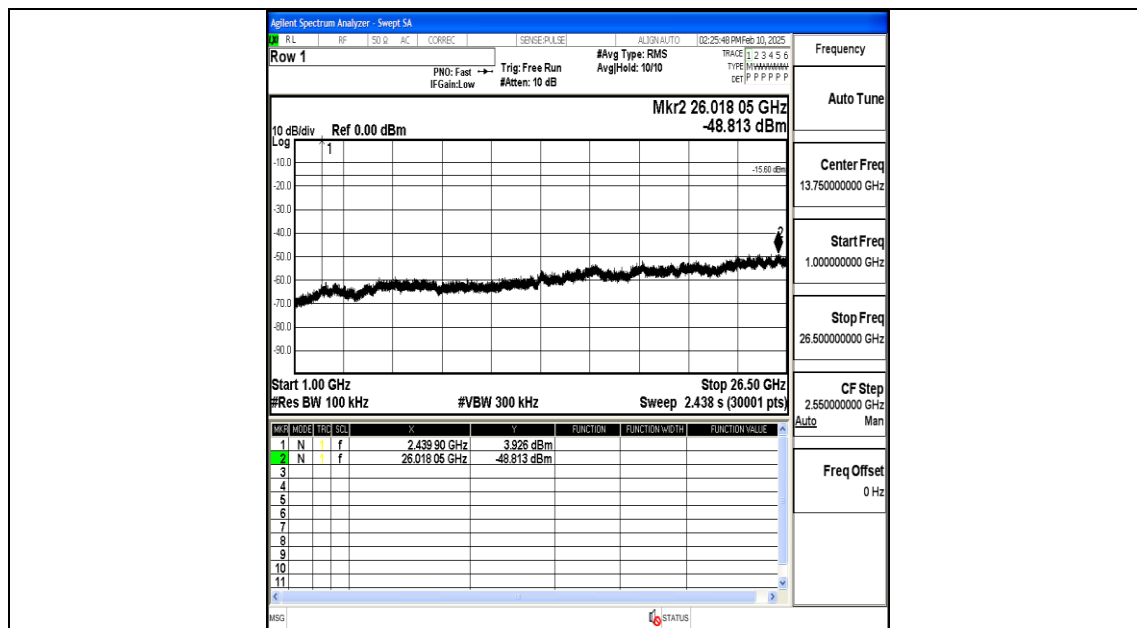
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD_1M	Ant1	2402	0~Reference	2.35	2.35	---	PASS
SRD_1M	Ant1	2402	30~1000	2.35	-66.07	≤-17.65	PASS
SRD_1M	Ant1	2402	1000~26500	2.35	-45.02	≤-17.65	PASS
SRD_1M	Ant1	2440	0~Reference	4.40	4.40	---	PASS
SRD_1M	Ant1	2440	30~1000	4.40	-65.27	≤-15.6	PASS
SRD_1M	Ant1	2440	1000~26500	4.40	-48.81	≤-15.6	PASS
SRD_1M	Ant1	2480	0~Reference	4.17	4.17	---	PASS
SRD_1M	Ant1	2480	30~1000	4.17	-65.47	≤-15.83	PASS
SRD_1M	Ant1	2480	1000~26500	4.17	-48.56	≤-15.83	PASS
SRD_2M	Ant1	2402	0~Reference	0.15	0.15	---	PASS
SRD_2M	Ant1	2402	30~1000	0.15	-65.99	≤-19.85	PASS
SRD_2M	Ant1	2402	1000~26500	0.15	-48.2	≤-19.85	PASS
SRD_2M	Ant1	2440	0~Reference	3.26	3.26	---	PASS
SRD_2M	Ant1	2440	30~1000	3.26	-66.15	≤-16.74	PASS
SRD_2M	Ant1	2440	1000~26500	3.26	-48.35	≤-16.74	PASS
SRD_2M	Ant1	2480	0~Reference	3.90	3.90	---	PASS
SRD_2M	Ant1	2480	30~1000	3.90	-65.65	≤-16.1	PASS
SRD_2M	Ant1	2480	1000~26500	3.90	-48.17	≤-16.1	PASS

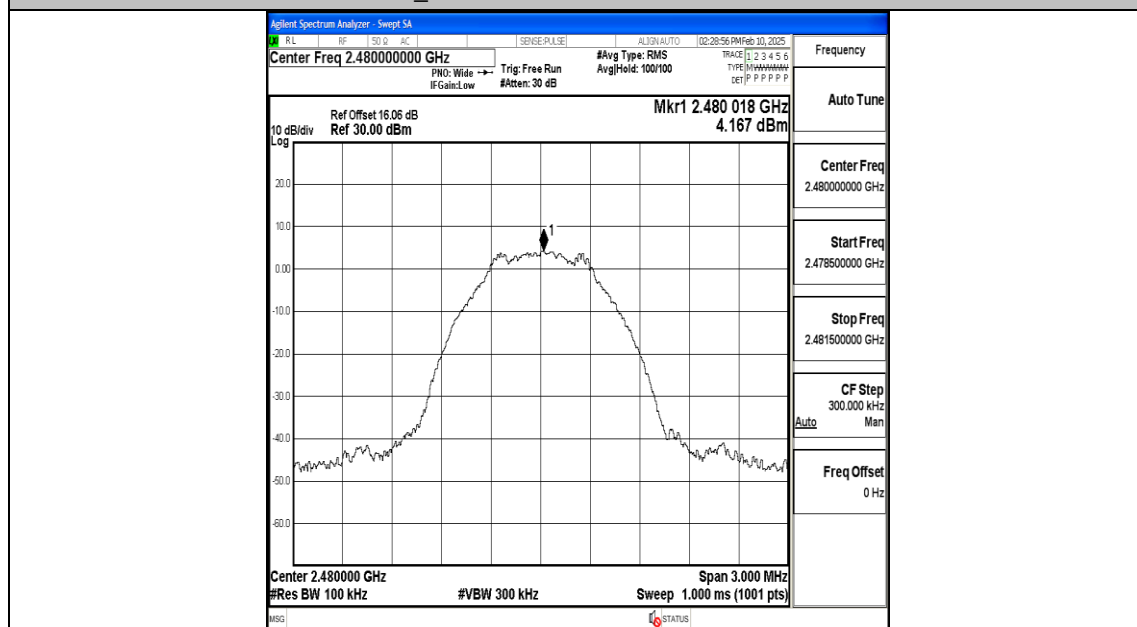
Test Graphs



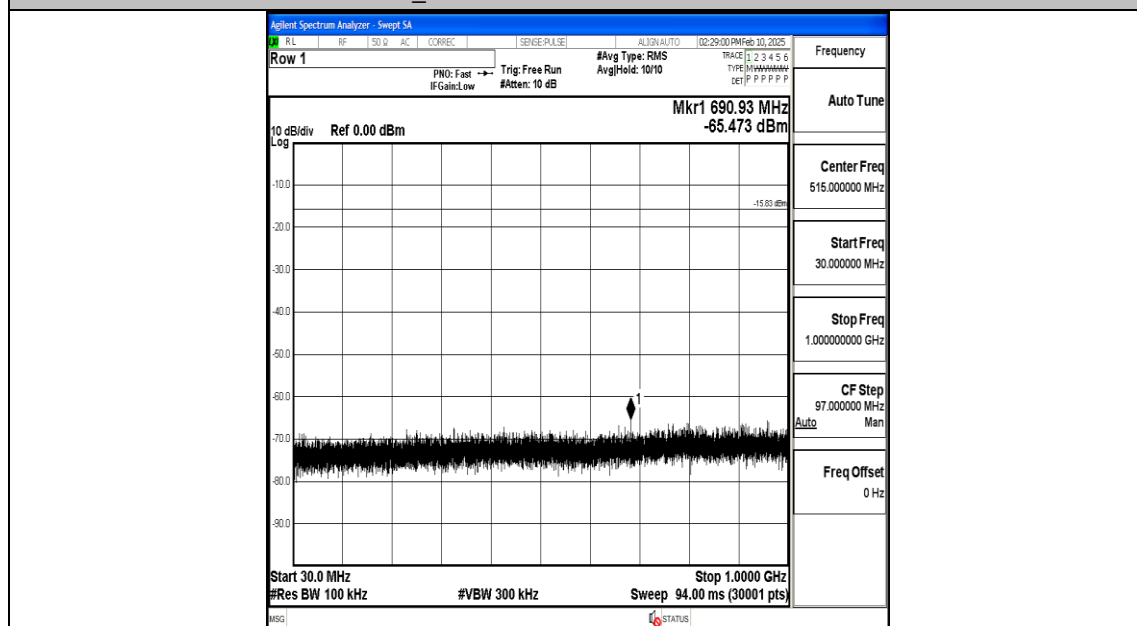




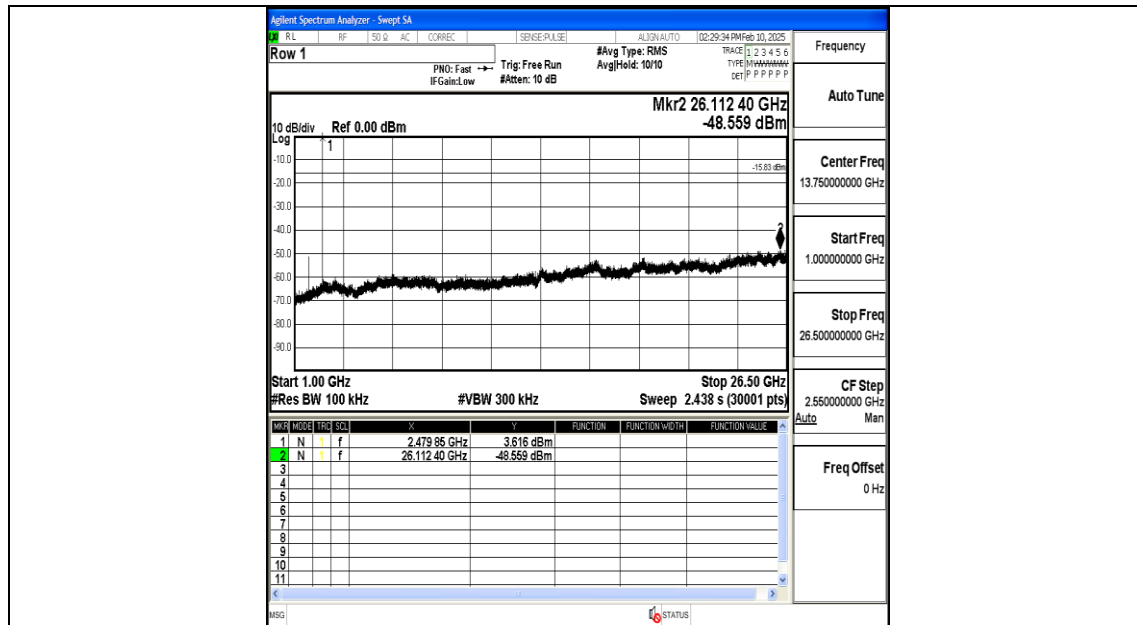
SRD_1M-Ant1-2440-1000~26500-PASS



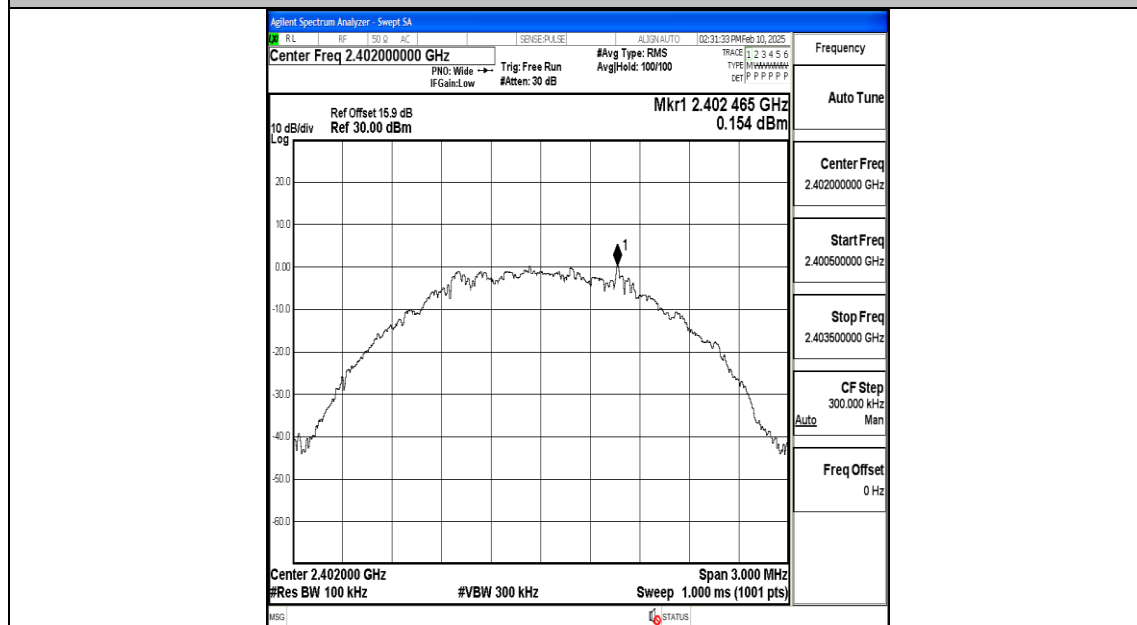
SRD_1M-Ant1-2480-0~Reference-PASS



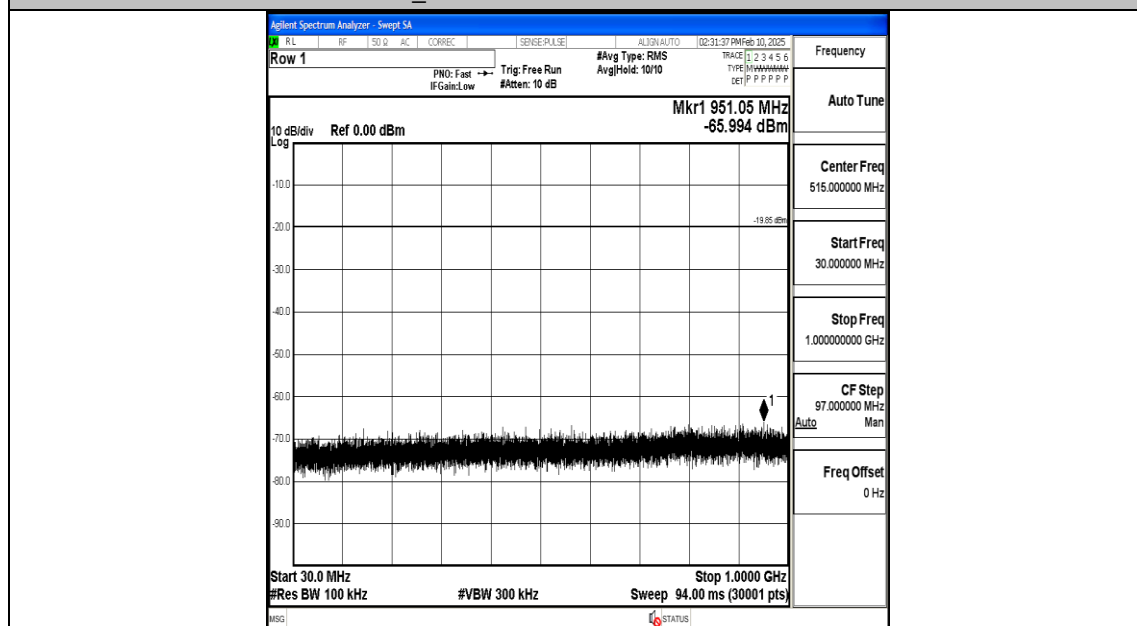
SRD_1M-Ant1-2480-30~1000-PASS



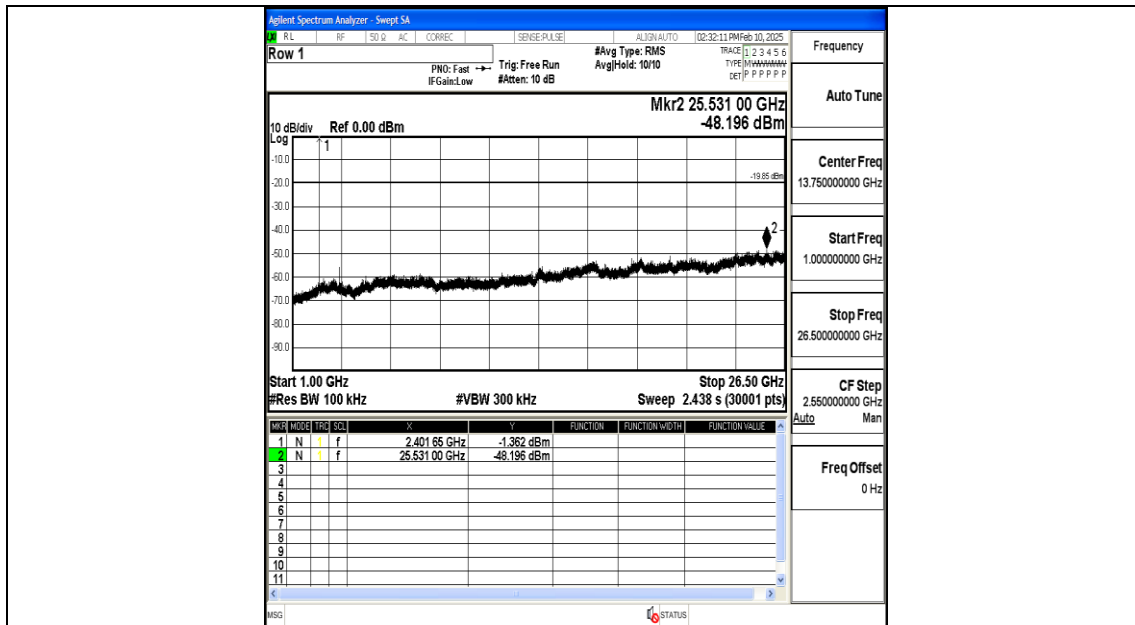
SRD_1M-Ant1-2480-1000~26500-PASS



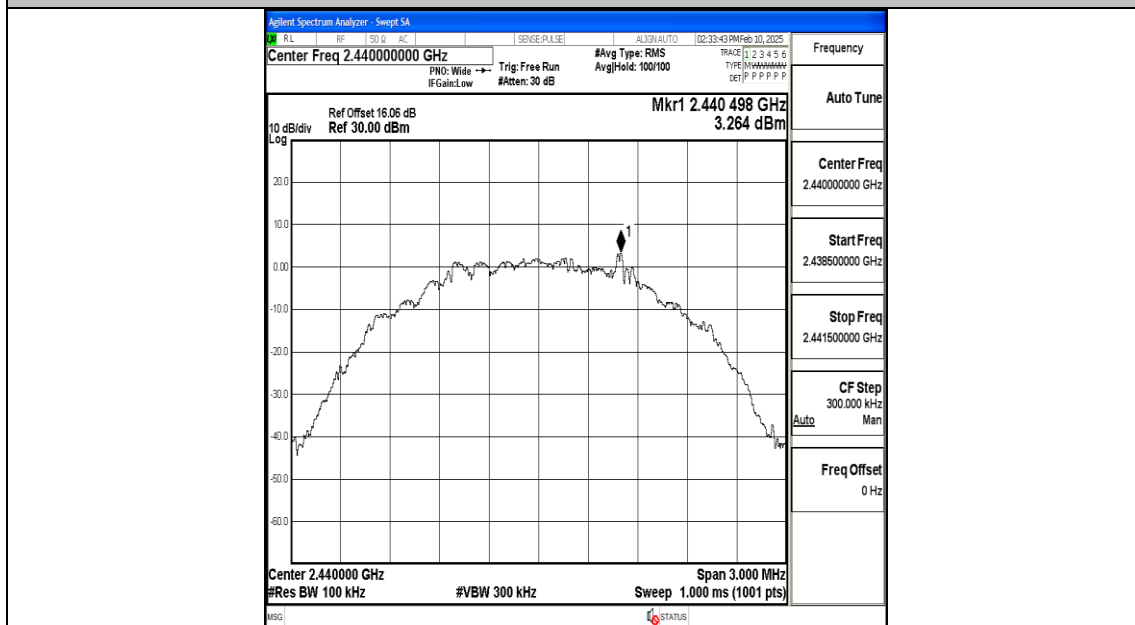
SRD_2M-Ant1-2402-0~Reference-PASS



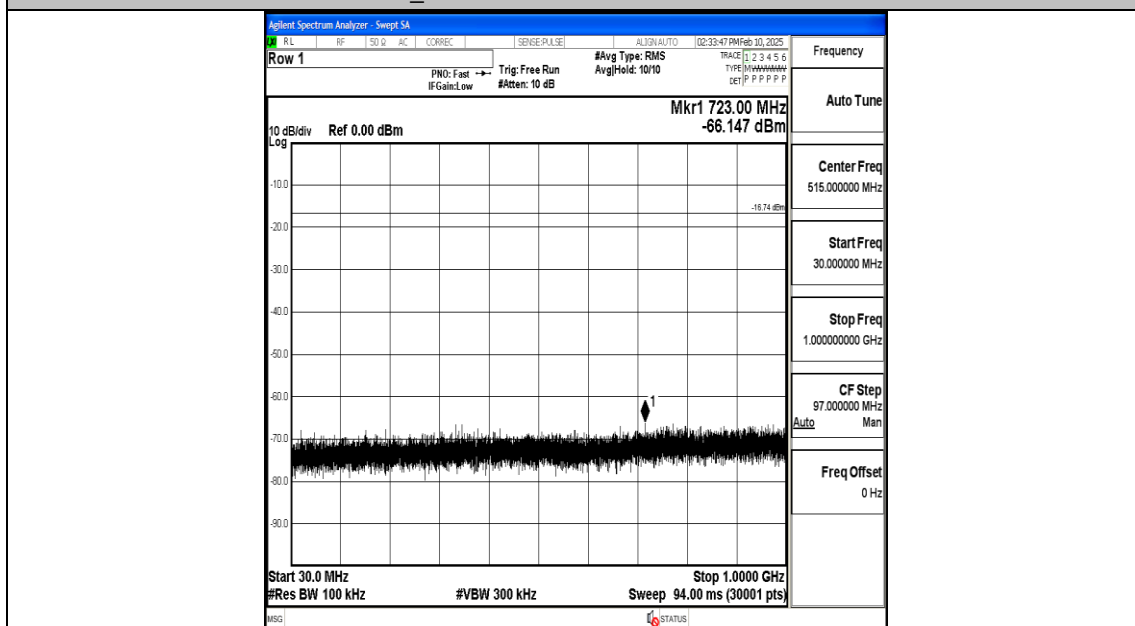
SRD_2M-Ant1-2402-30~1000-PASS



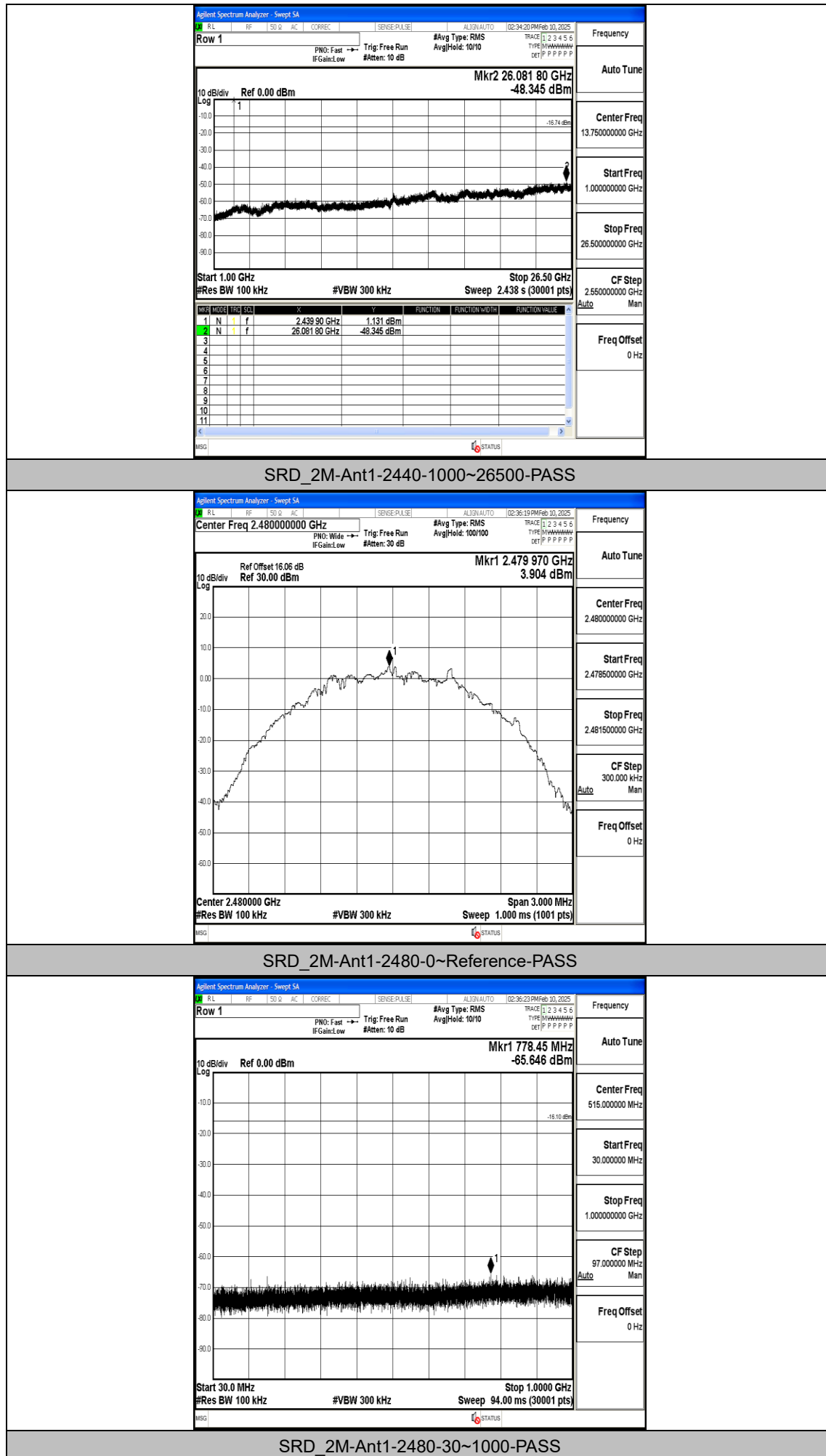
SRD_2M-Ant1-2402-1000~26500-PASS

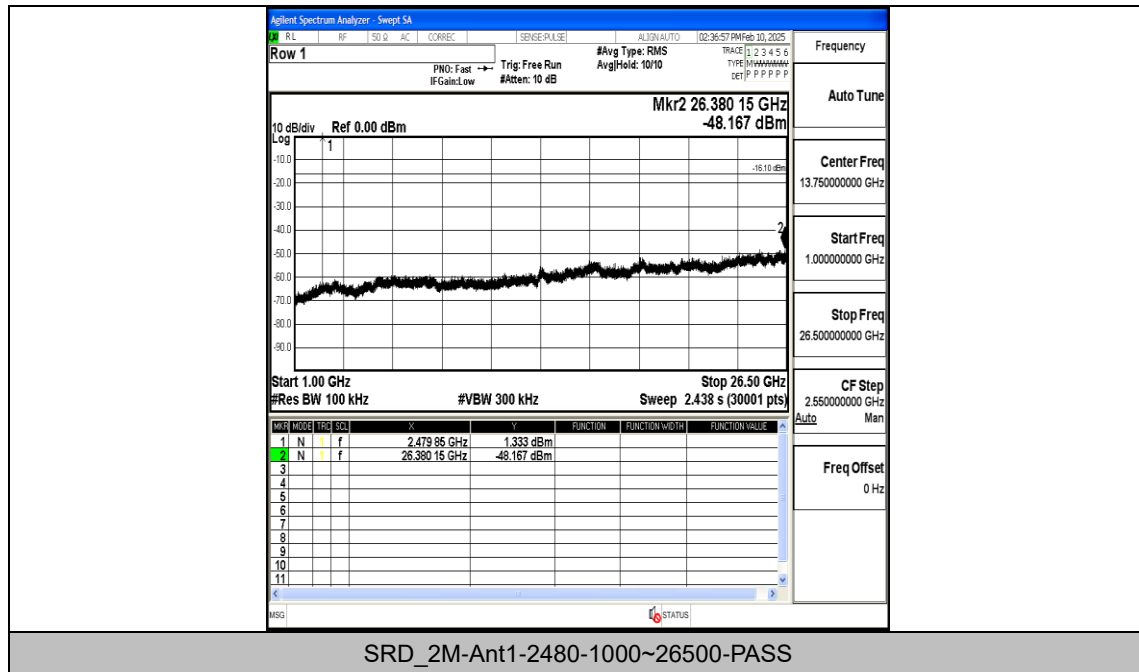


SRD_2M-Ant1-2440-0~Reference-PASS



SRD_2M-Ant1-2440-30~1000-PASS





Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
SRD_1M	Ant1	2402	2.13	2.50	85.20	0.70
SRD_1M	Ant1	2440	2.13	2.50	85.20	0.70
SRD_1M	Ant1	2480	2.13	2.50	85.20	0.70
SRD_2M	Ant1	2402	1.07	1.87	57.22	2.42
SRD_2M	Ant1	2440	1.07	1.88	56.91	2.45
SRD_2M	Ant1	2480	1.07	1.88	56.91	2.45

Test Graphs

