

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Fowhat 2.4GHz Receiver

Trade Mark: FOWHAT, GravaStar

Test Model: FW C1R

FCC ID: 2BRBZ-FWC1R

Environmental Conditions

Temperature:	23.5°C
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
SRD	Ant1	2403	1.504	2402.216	2403.720	0.5	PASS
SRD	Ant1	2441	1.472	2440.248	2441.720	0.5	PASS
SRD	Ant1	2480	1.556	2479.176	2480.732	0.5	PASS

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

Test Graphs





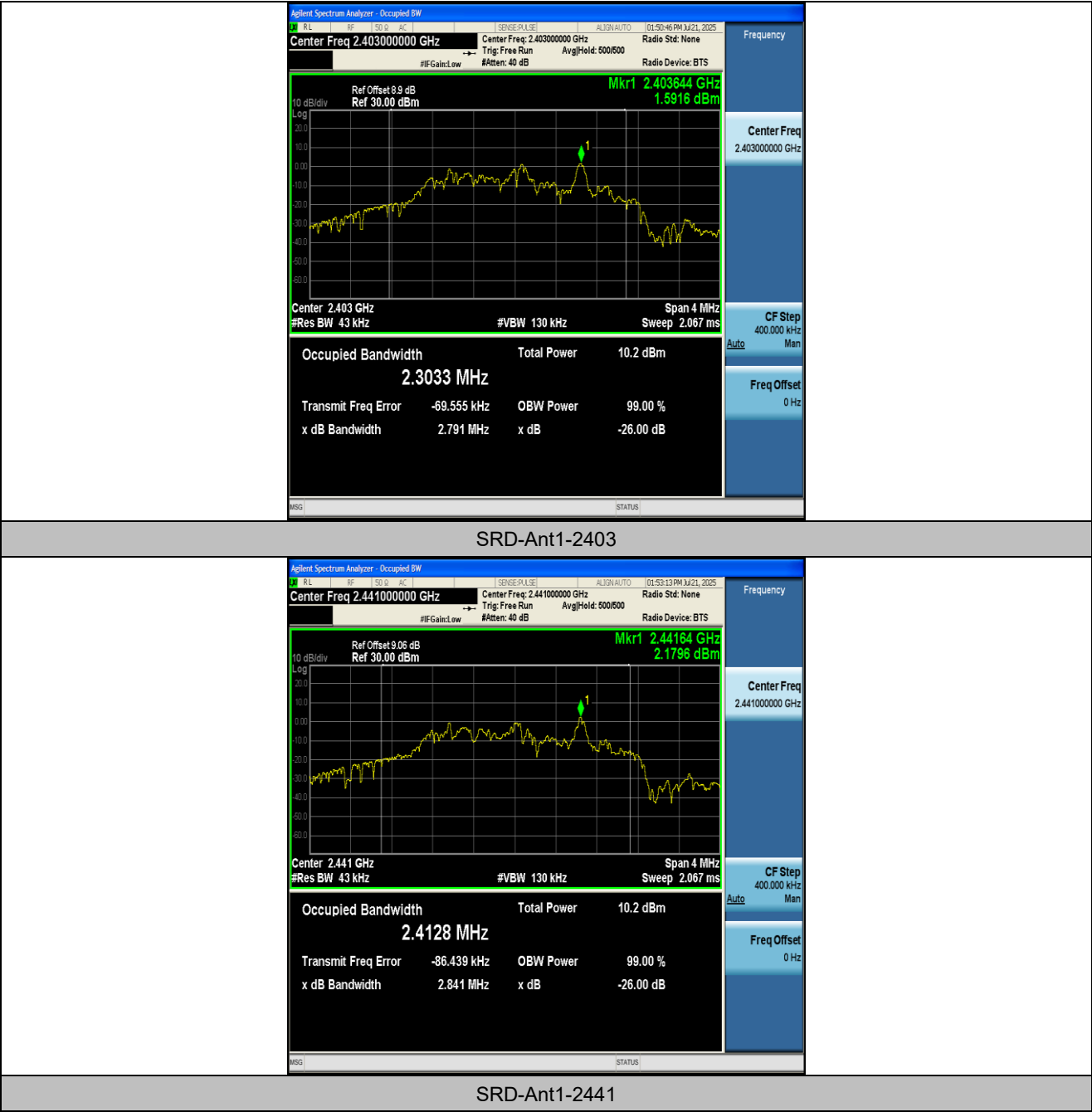
Appendix B: Occupied Channel Bandwidth

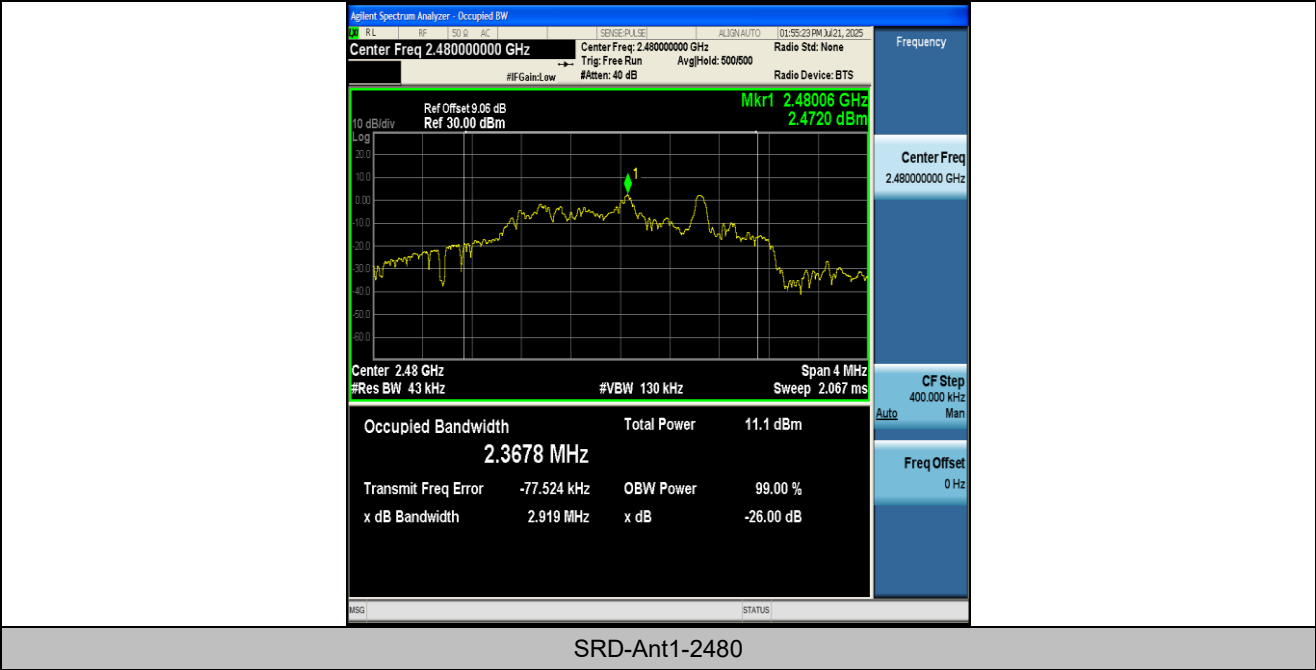
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2403	2.3033	2401.7788	2404.0821	---	---
SRD	Ant1	2441	2.4128	2439.7072	2442.1200	---	---
SRD	Ant1	2480	2.3678	2478.7386	2481.1064	---	---

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

Test Graphs





Appendix C: Maximum peak conducted output power

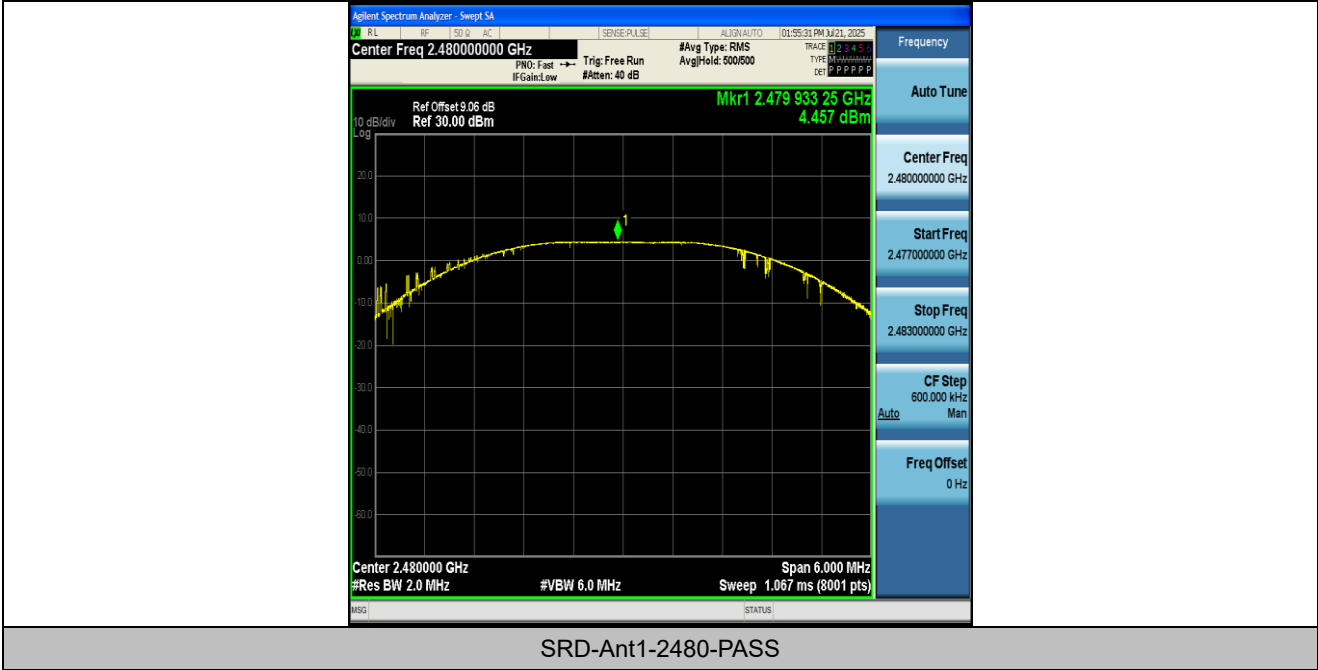
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2403	3.66	≤30	PASS
SRD	Ant1	2441	4.28	≤30	PASS
SRD	Ant1	2480	4.46	≤30	PASS

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

Test Graphs Peak





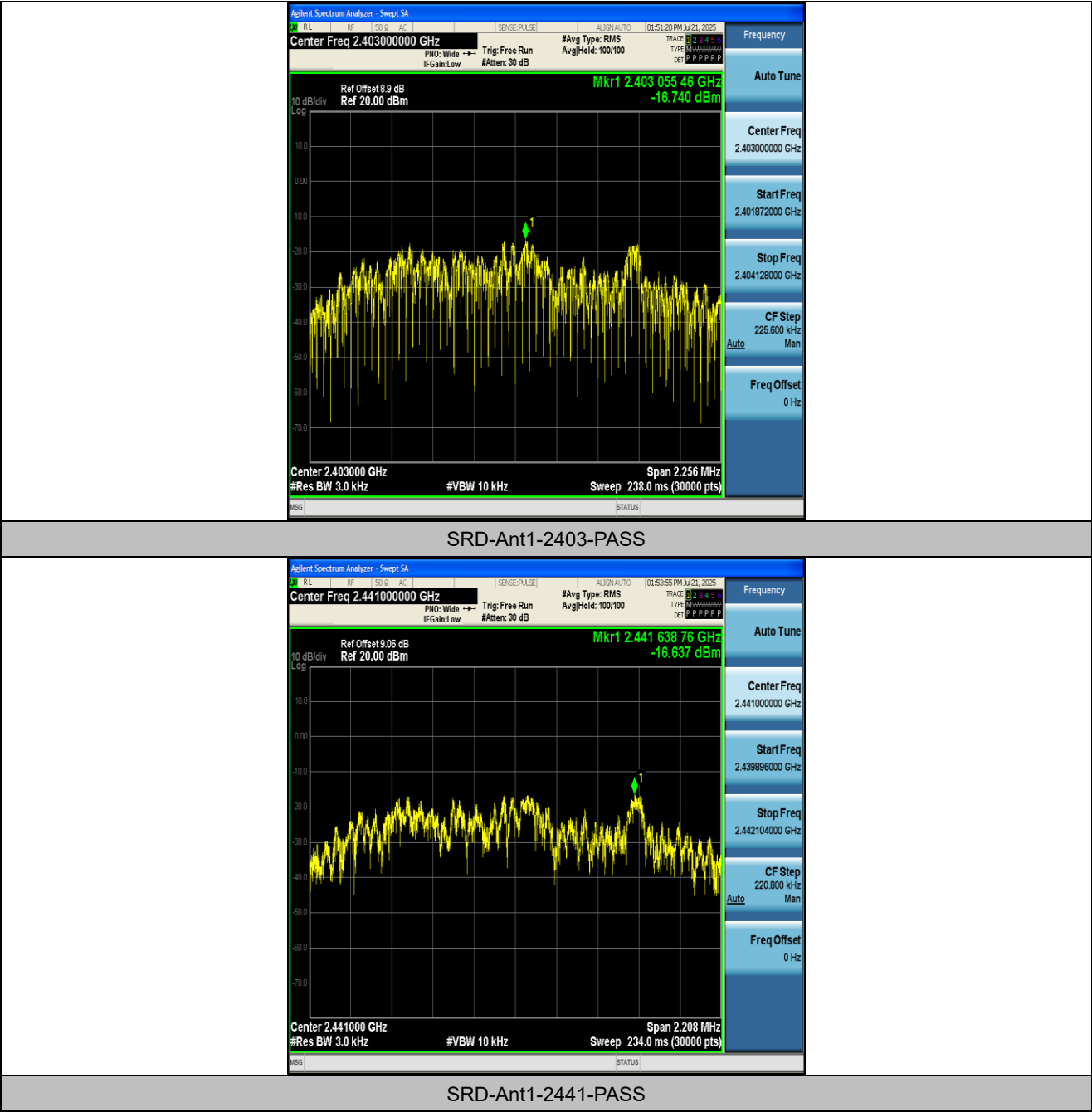
Appendix D: Maximum peak power spectral density

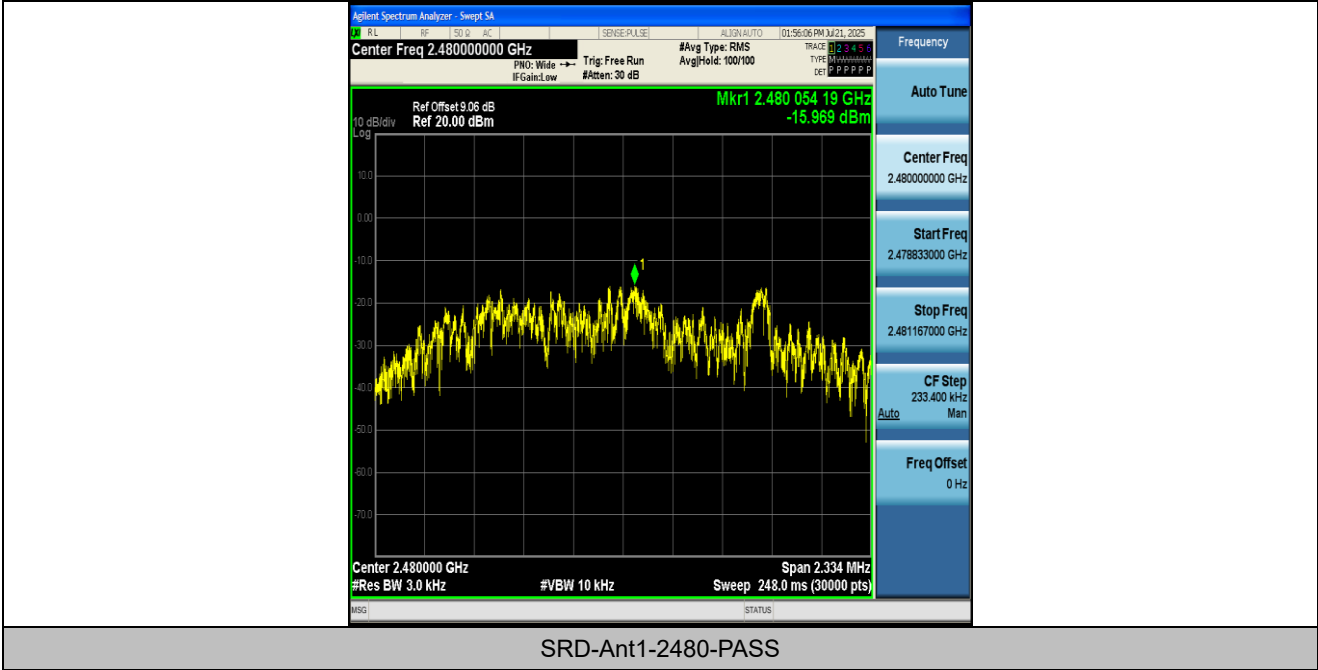
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2403	-16.74	≤8.00	PASS
SRD	Ant1	2441	-16.64	≤8.00	PASS
SRD	Ant1	2480	-15.97	≤8.00	PASS

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

Test Graphs





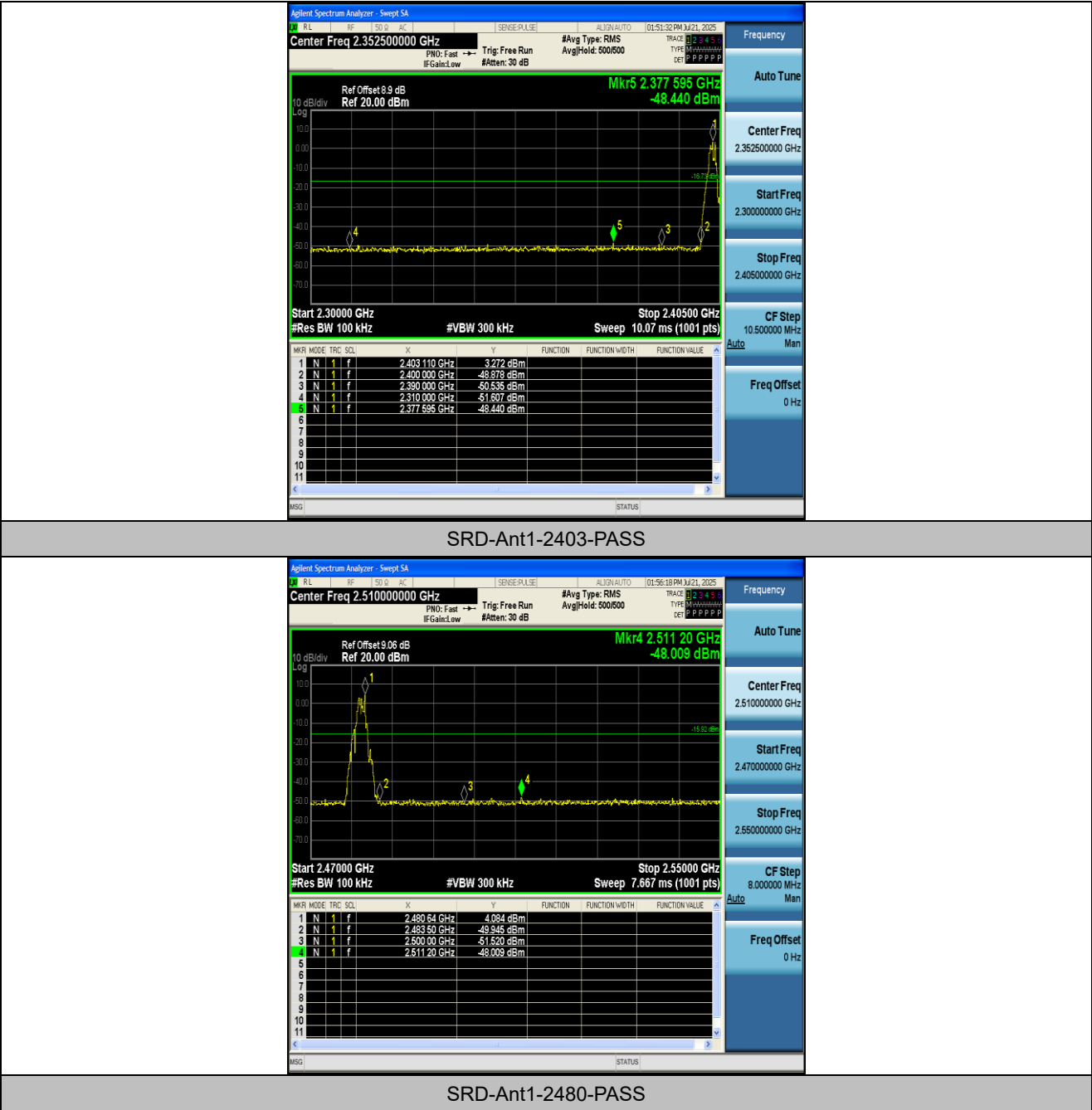
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2403	3.27	-48.44	≤ -16.73	PASS
SRD	Ant1	High	2480	4.08	-48.01	≤ -15.92	PASS

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

Test Graphs



Appendix F: Conducted Spurious Emission

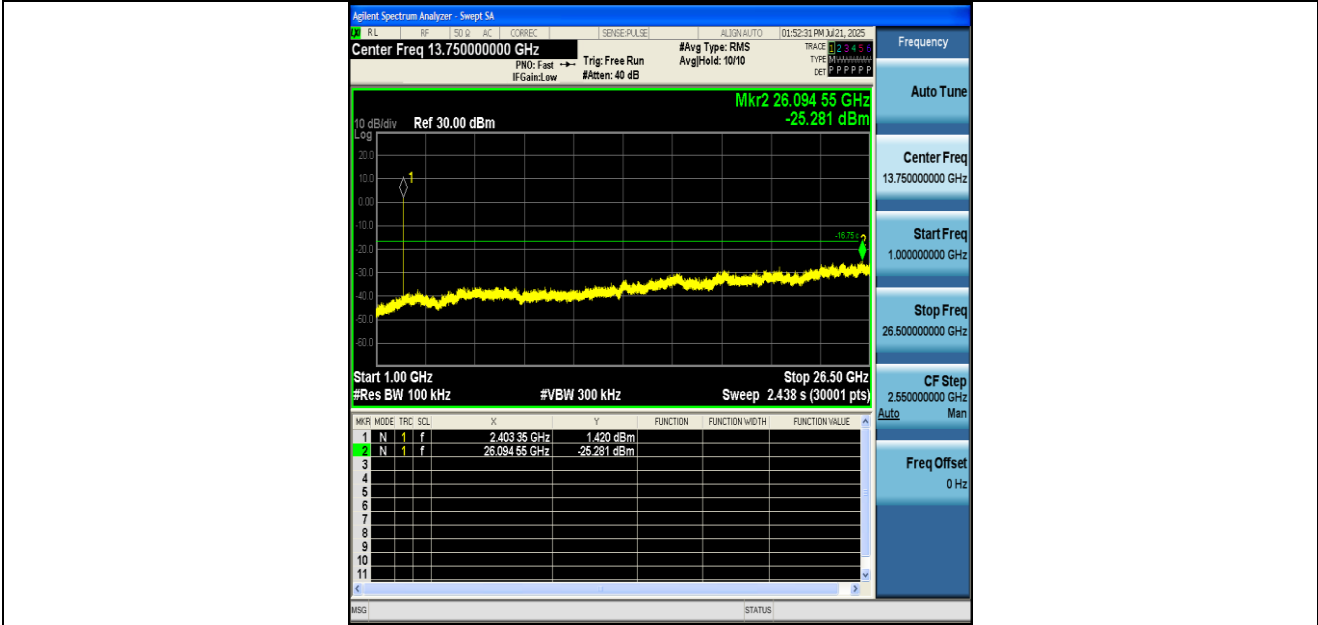
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2403	0~Reference	3.25	3.25	---	PASS
SRD	Ant1	2403	30~1000	3.25	-42.32	≤-16.75	PASS
SRD	Ant1	2403	1000~26500	3.25	-25.28	≤-16.75	PASS
SRD	Ant1	2441	0~Reference	4.10	4.10	---	PASS
SRD	Ant1	2441	30~1000	4.10	-42.1	≤-15.9	PASS
SRD	Ant1	2441	1000~26500	4.10	-25.52	≤-15.9	PASS
SRD	Ant1	2480	0~Reference	4.25	4.25	---	PASS
SRD	Ant1	2480	30~1000	4.25	-42.48	≤-15.75	PASS
SRD	Ant1	2480	1000~26500	4.25	-25.18	≤-15.75	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

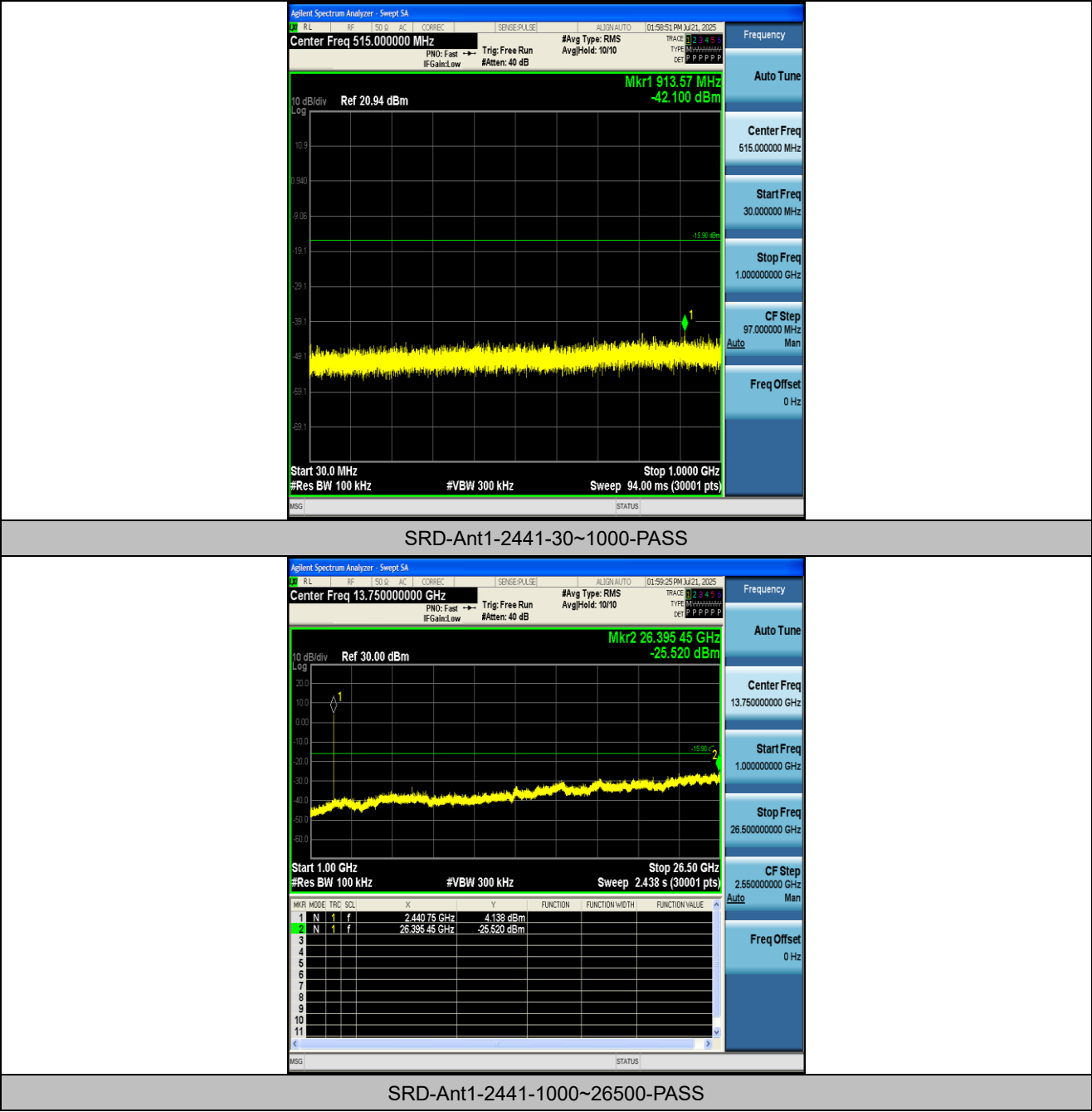




SRD-Ant1-2403-1000~26500-PASS

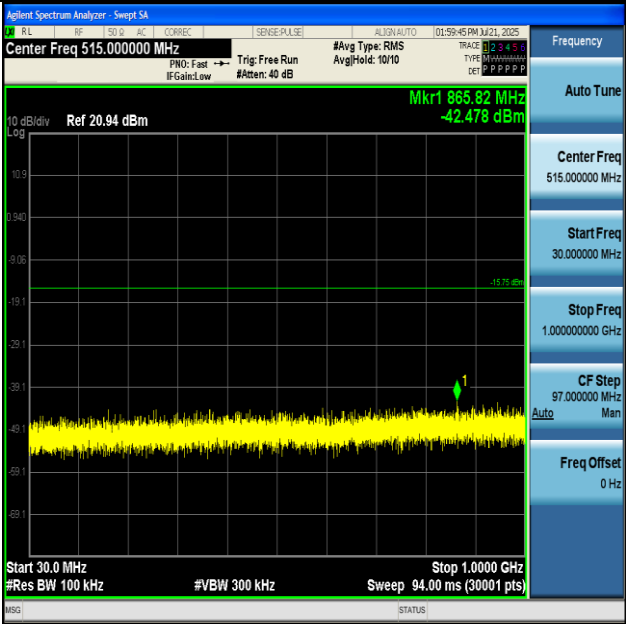


SRD-Ant1-2441-0~Reference-PASS

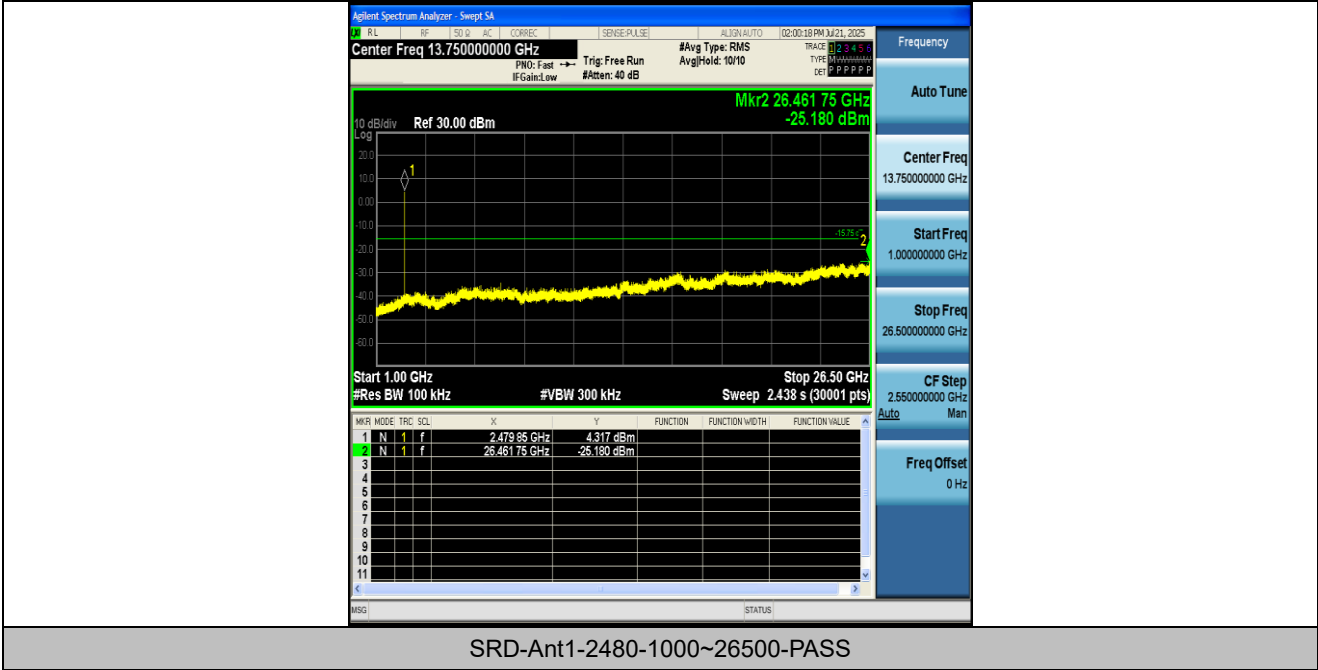




SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
SRD	Ant1	2403	0.12	3.99	3.01	15.21
SRD	Ant1	2441	0.13	3.99	3.26	14.87
SRD	Ant1	2480	0.12	3.99	3.01	15.21

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

Test Graphs

