

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: K8HE

FCC ID: 2BGKB-K8HE

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

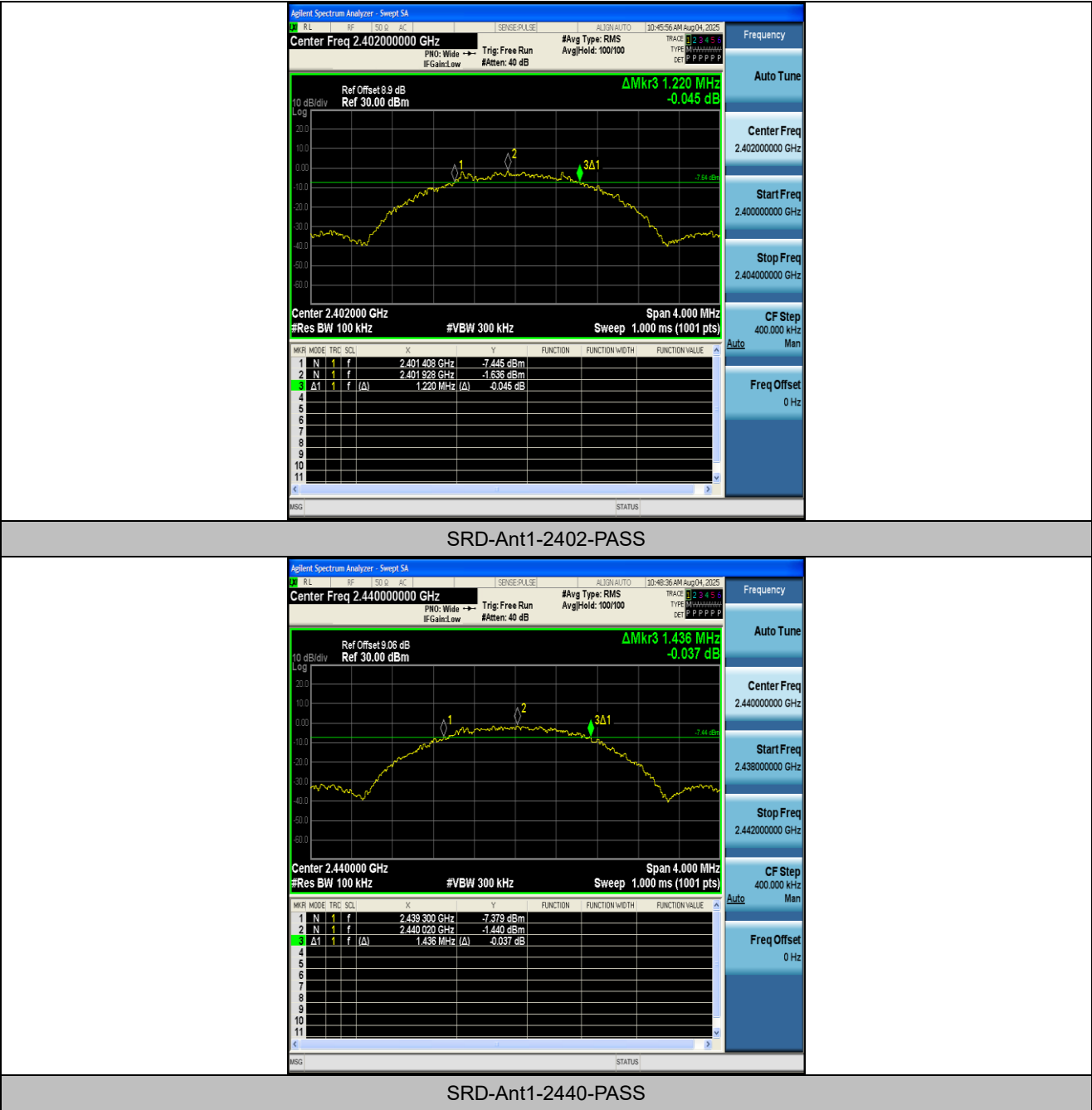
Appendix A: DTS Bandwidth

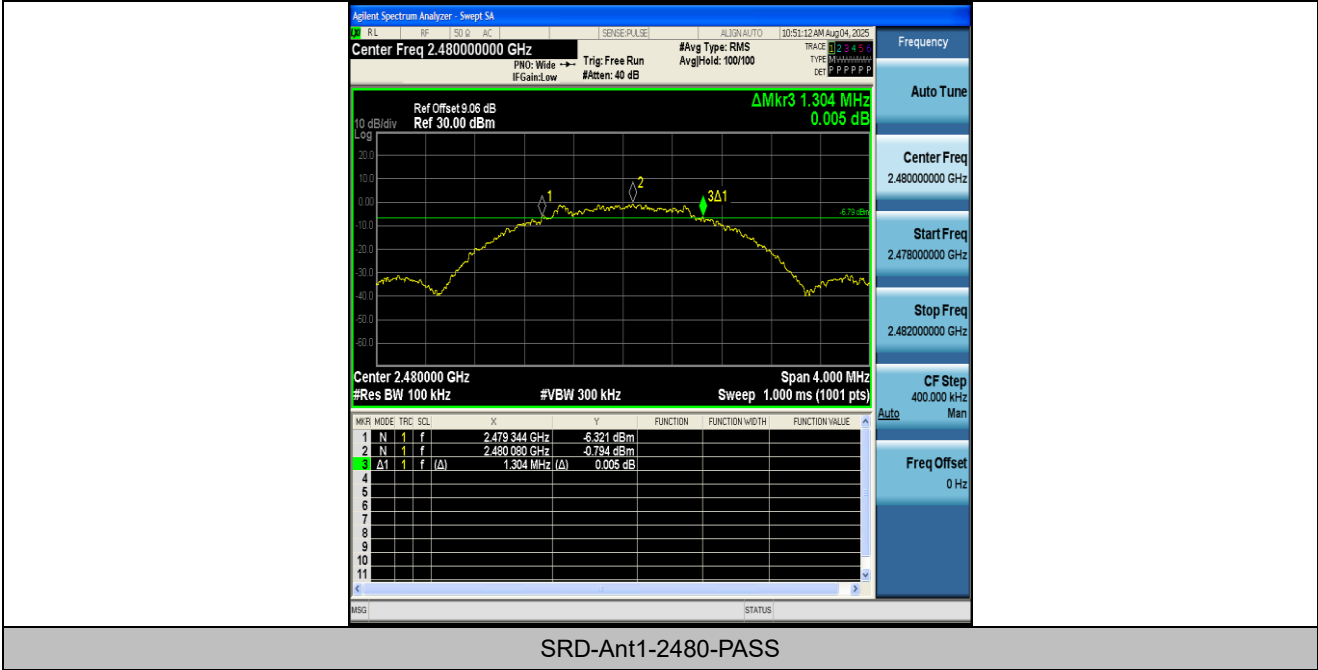
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2402	1.220	2401.408	2402.628	0.5	PASS
SRD	Ant1	2440	1.436	2439.300	2440.736	0.5	PASS
SRD	Ant1	2480	1.304	2479.344	2480.648	0.5	PASS

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

Test Graphs





Appendix B: Occupied Channel Bandwidth

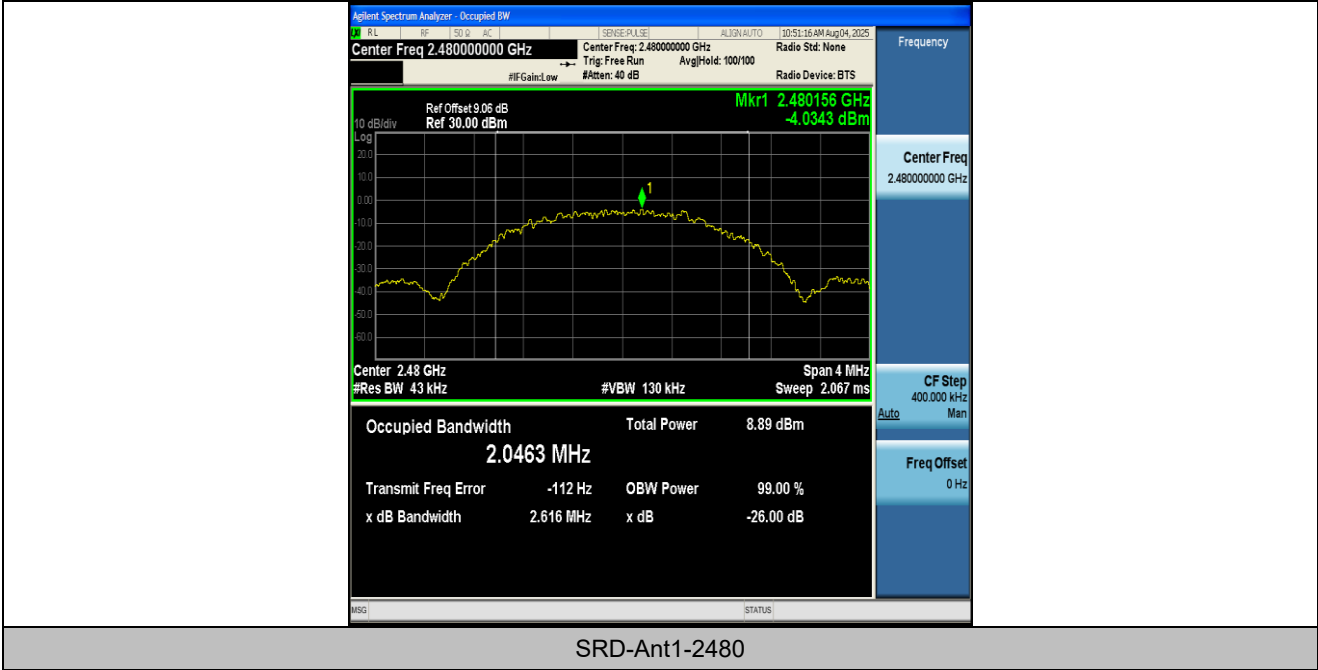
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2402	2.0457	2400.9701	2403.0158	---	---
SRD	Ant1	2440	2.0624	2438.9784	2441.0408	---	---
SRD	Ant1	2480	2.0463	2478.9767	2481.0230	---	---

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

Test Graphs





SRD-Ant1-2480

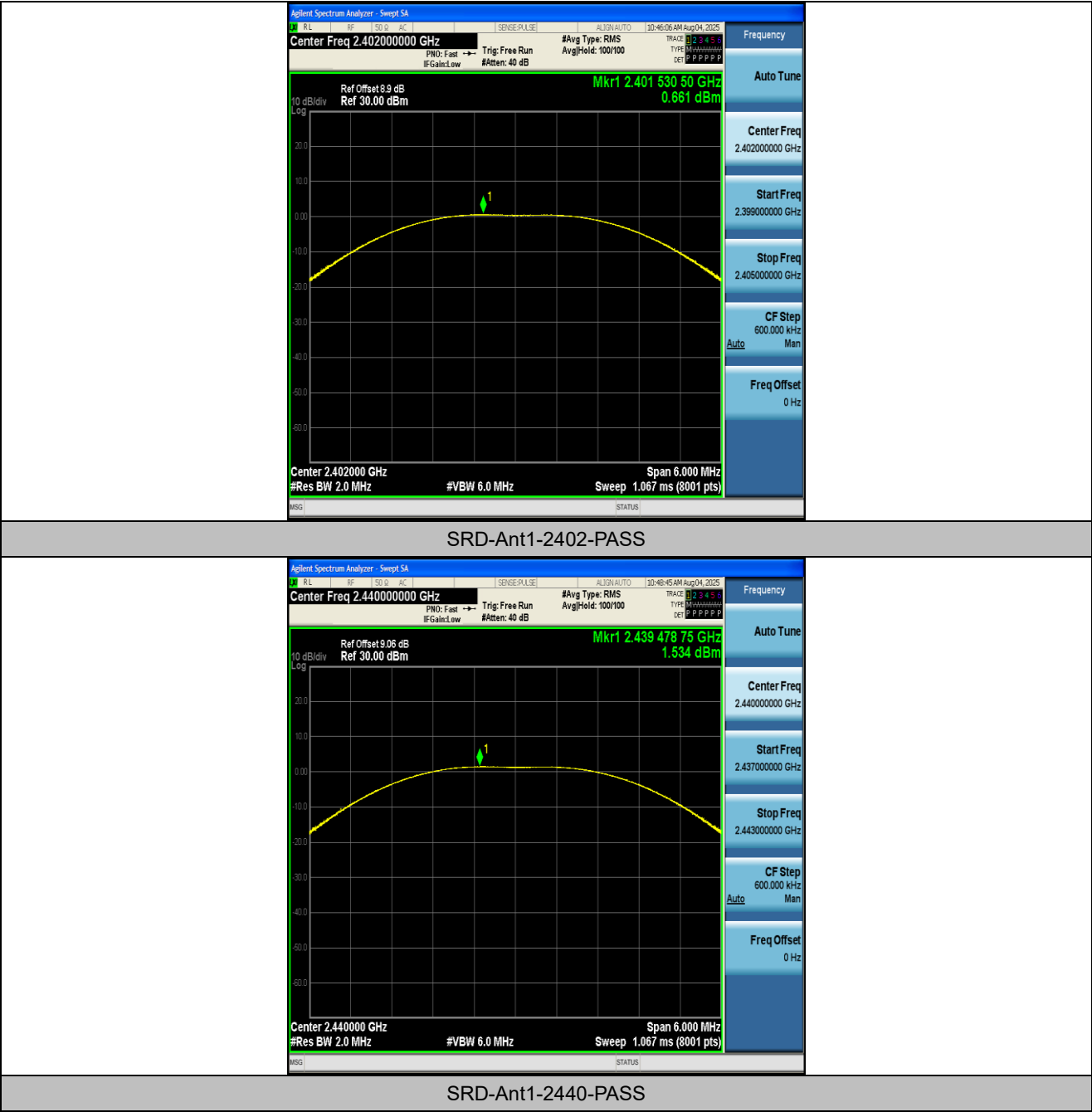
Appendix C: Maximum peak conducted output power

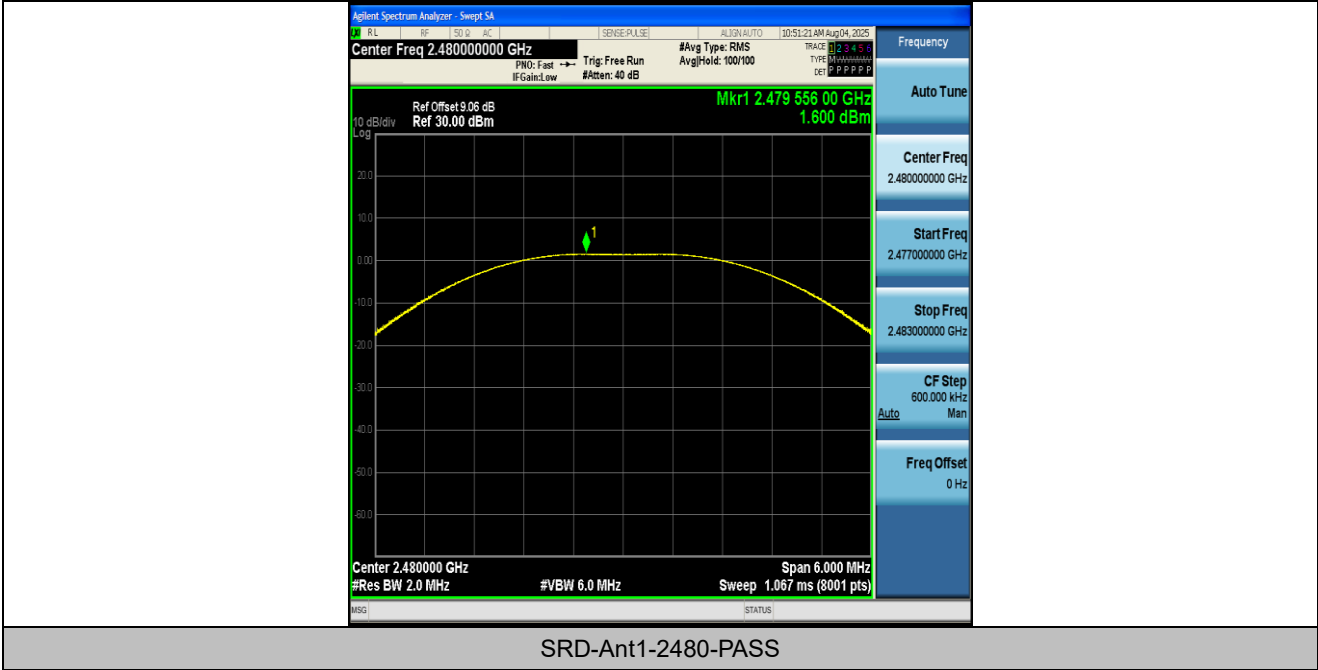
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2402	0.66	≤30	PASS
SRD	Ant1	2440	1.53	≤30	PASS
SRD	Ant1	2480	1.60	≤30	PASS

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

Test Graphs Peak





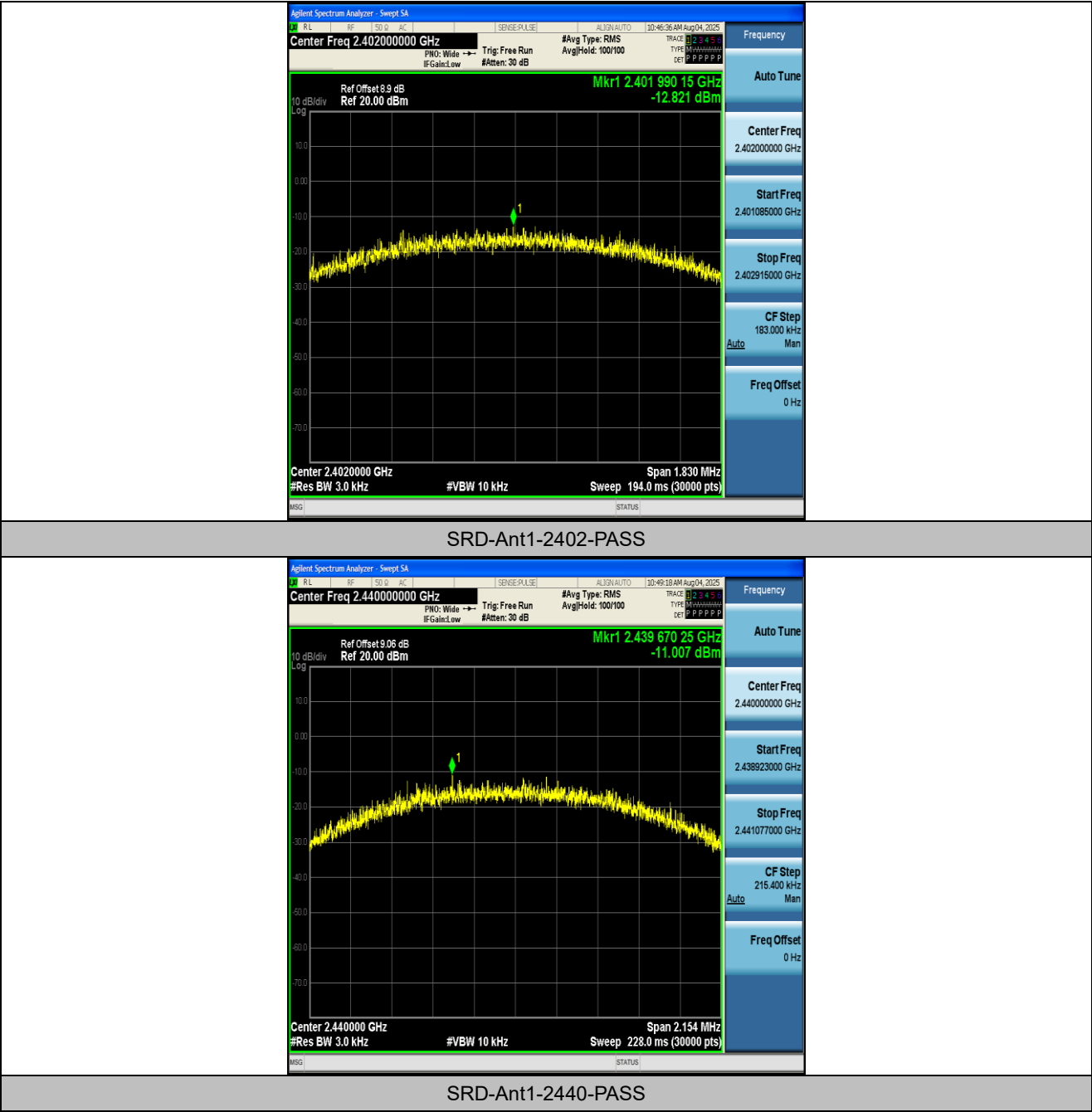
Appendix D: Maximum peak power spectral density

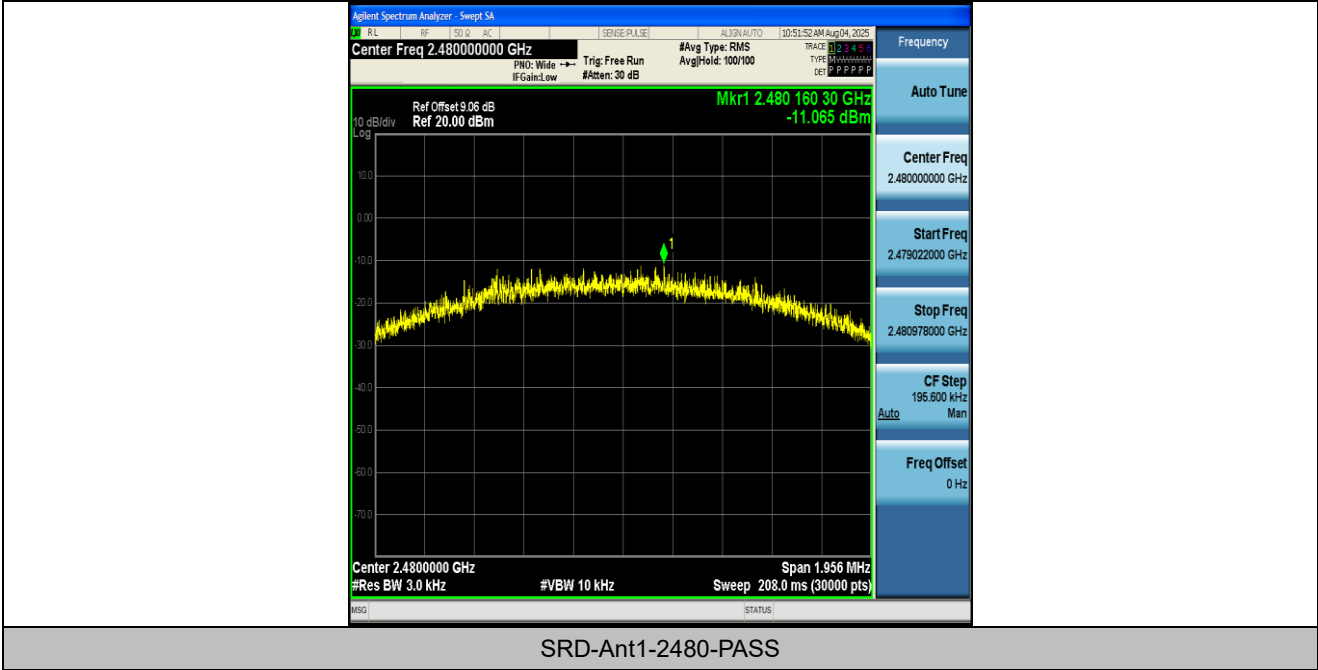
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2402	-12.82	≤8.00	PASS
SRD	Ant1	2440	-11.01	≤8.00	PASS
SRD	Ant1	2480	-11.07	≤8.00	PASS

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

Test Graphs





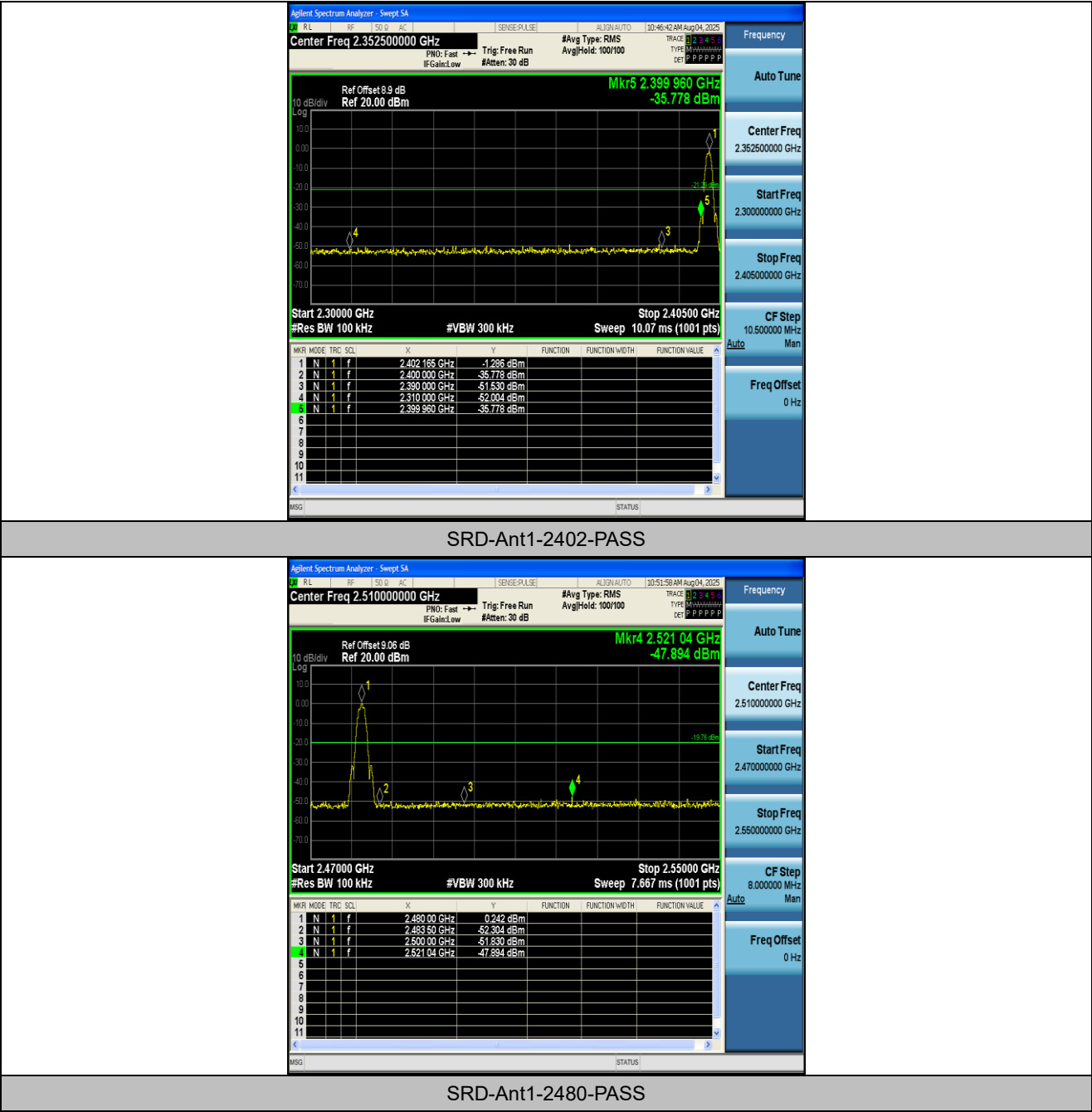
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	-1.29	-35.78	≤ -21.29	PASS
SRD	Ant1	High	2480	0.24	-47.89	≤ -19.76	PASS

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

Test Graphs



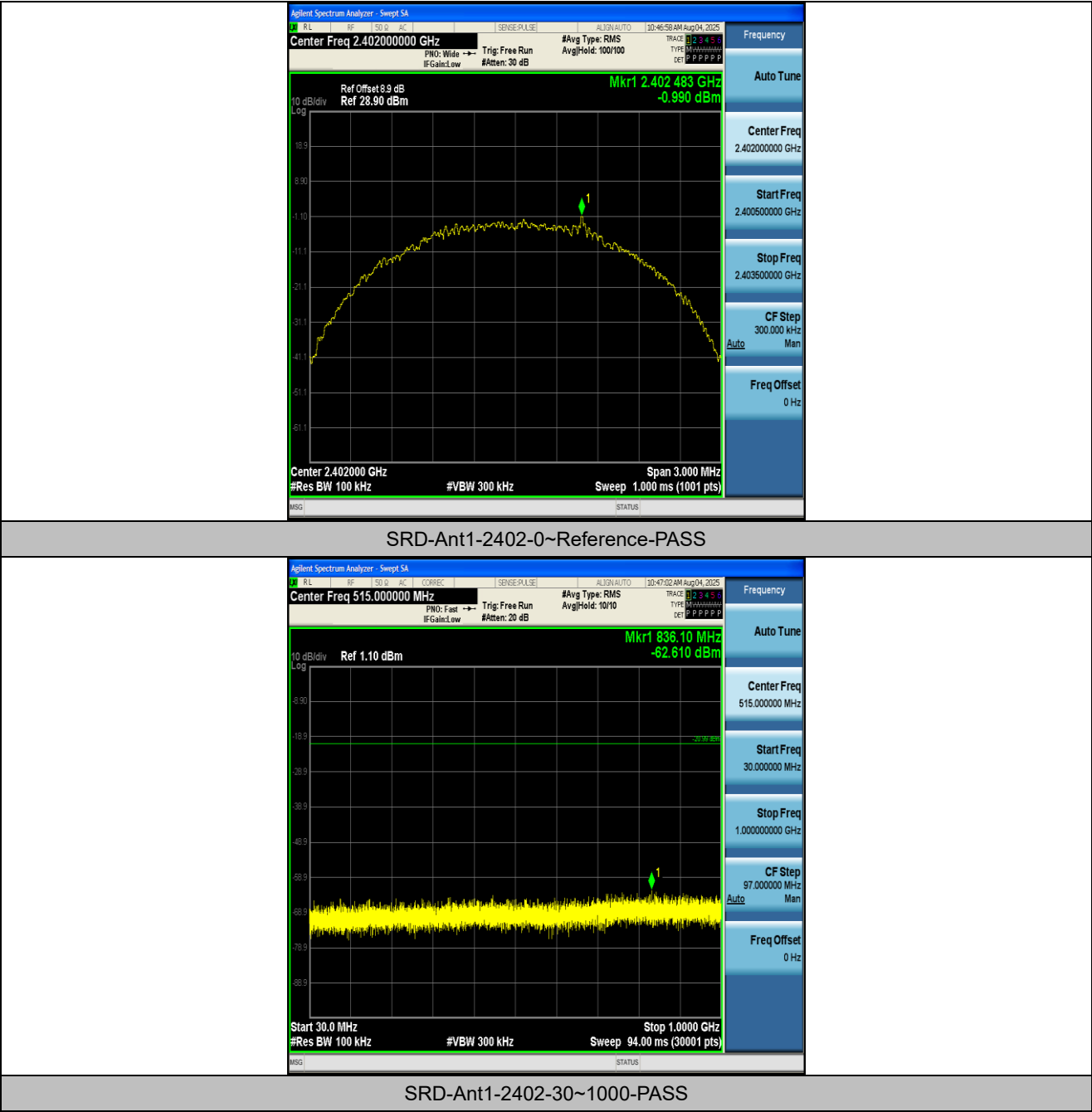
Appendix F: Conducted Spurious Emission

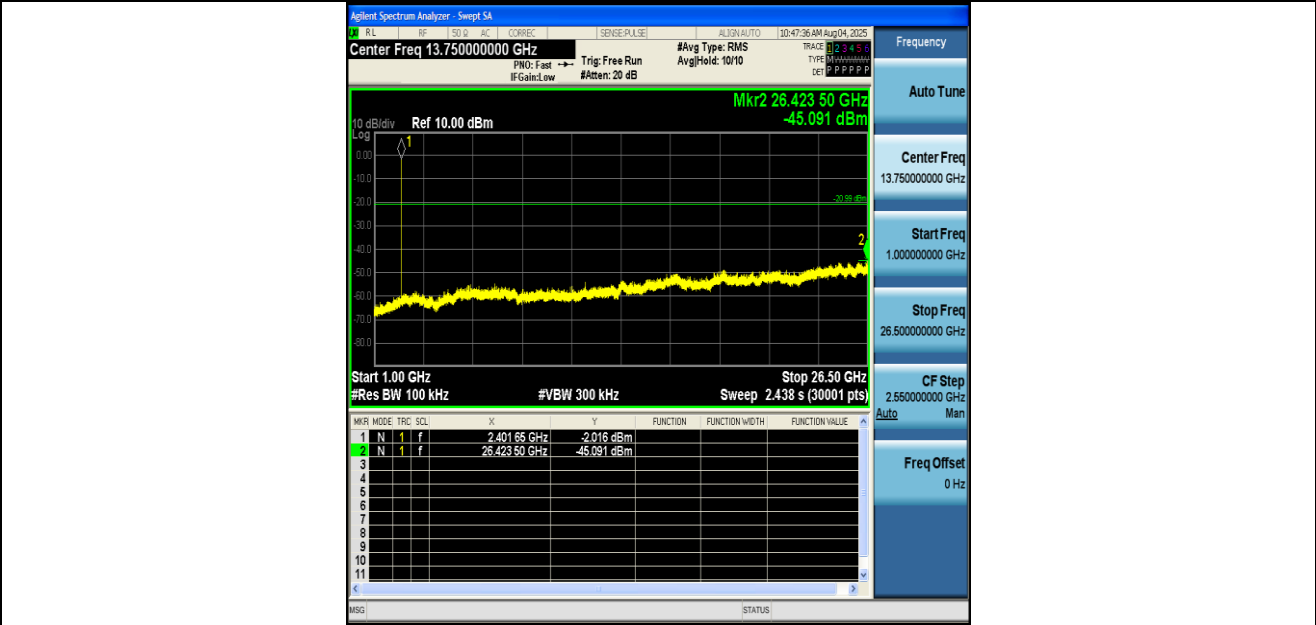
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2402	0~Reference	-0.99	-0.99	---	PASS
SRD	Ant1	2402	30~1000	-0.99	-62.61	≤-20.99	PASS
SRD	Ant1	2402	1000~26500	-0.99	-45.09	≤-20.99	PASS
SRD	Ant1	2440	0~Reference	-1.13	-1.13	---	PASS
SRD	Ant1	2440	30~1000	-1.13	-61.77	≤-21.13	PASS
SRD	Ant1	2440	1000~26500	-1.13	-45.2	≤-21.13	PASS
SRD	Ant1	2480	0~Reference	-0.49	-0.49	---	PASS
SRD	Ant1	2480	30~1000	-0.49	-62.69	≤-20.49	PASS
SRD	Ant1	2480	1000~26500	-0.49	-44.93	≤-20.49	PASS

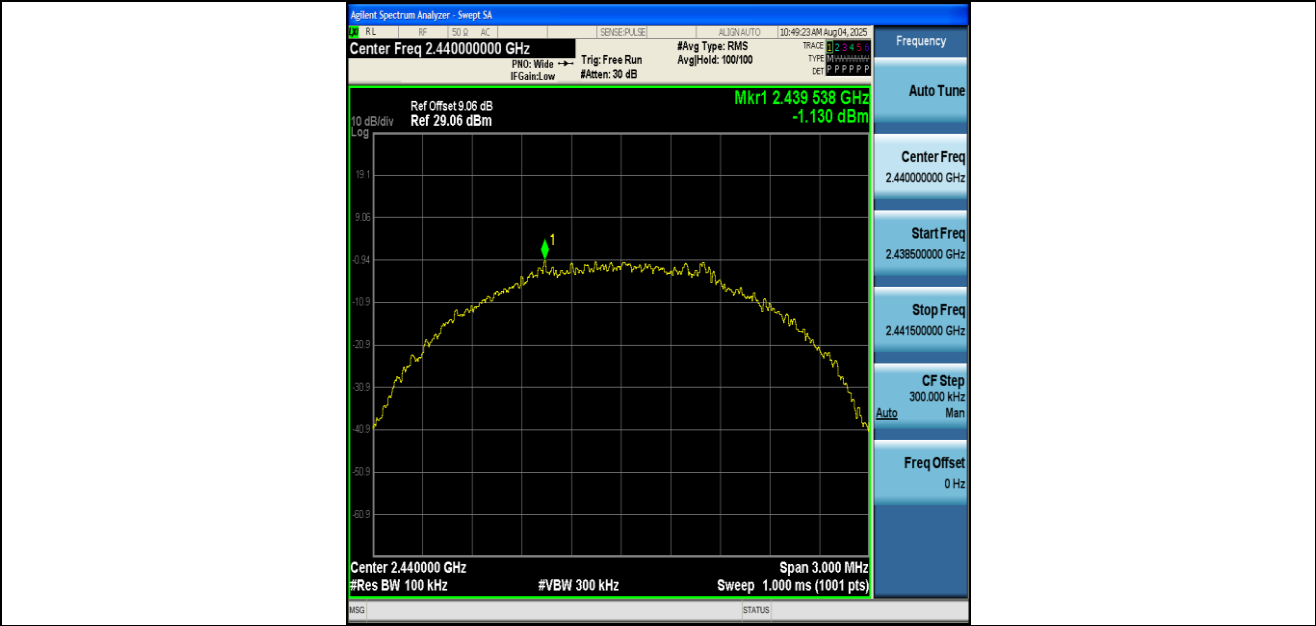
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

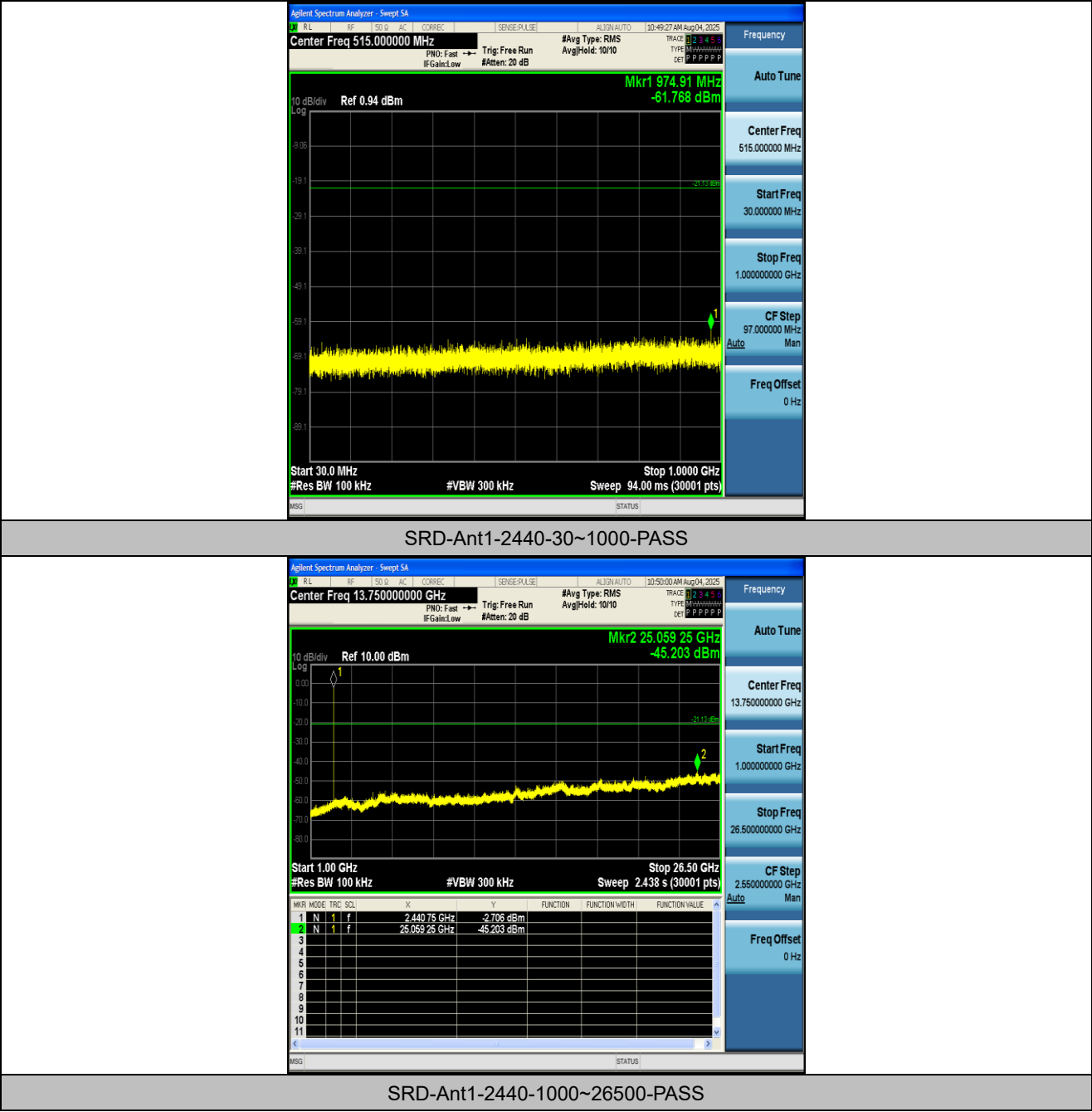


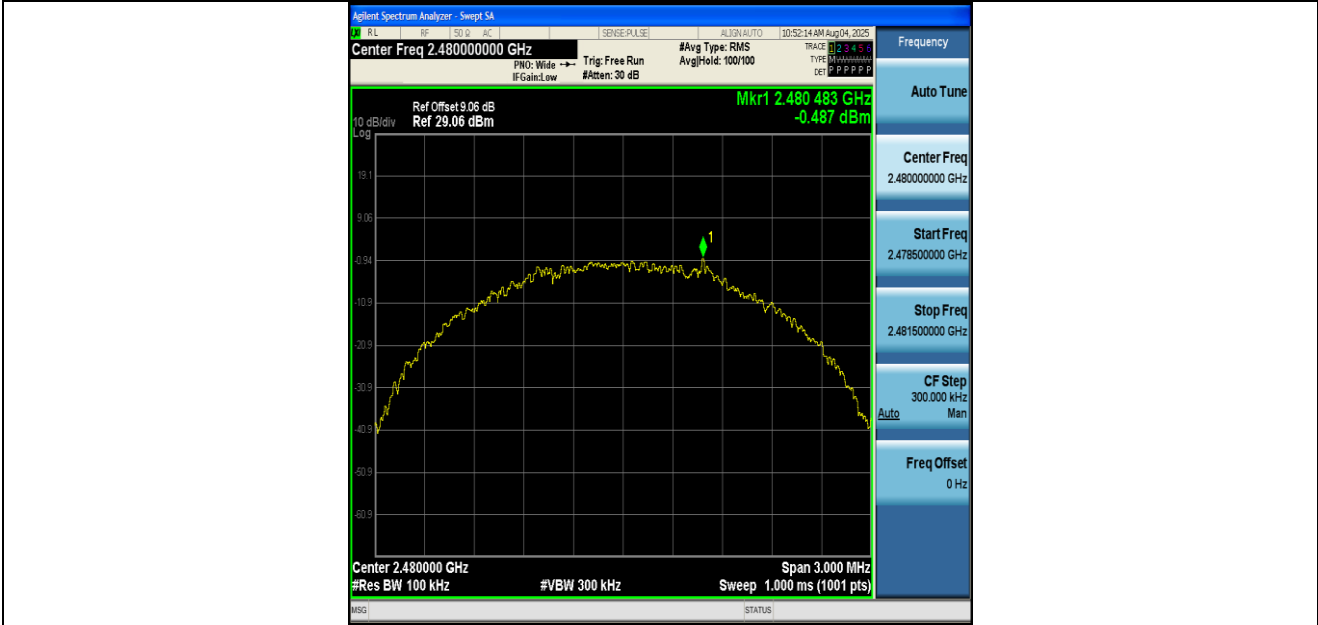


SRD-Ant1-2402-1000~26500-PASS

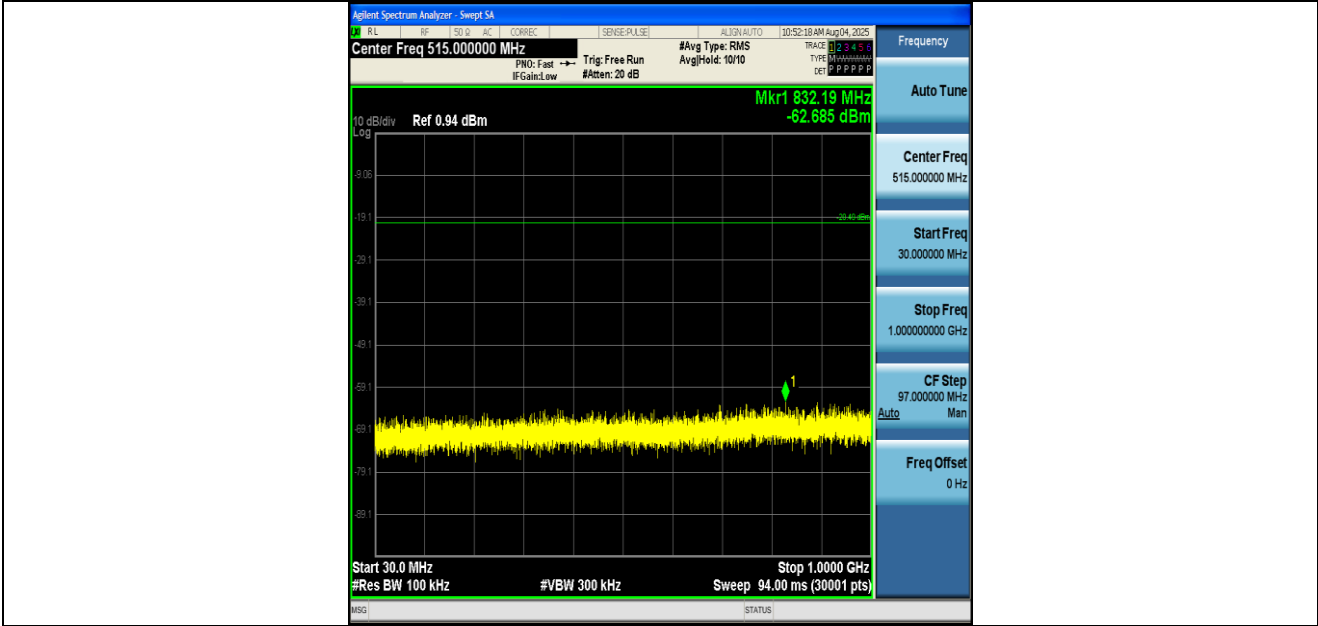


SRD-Ant1-2440-0~Reference-PASS

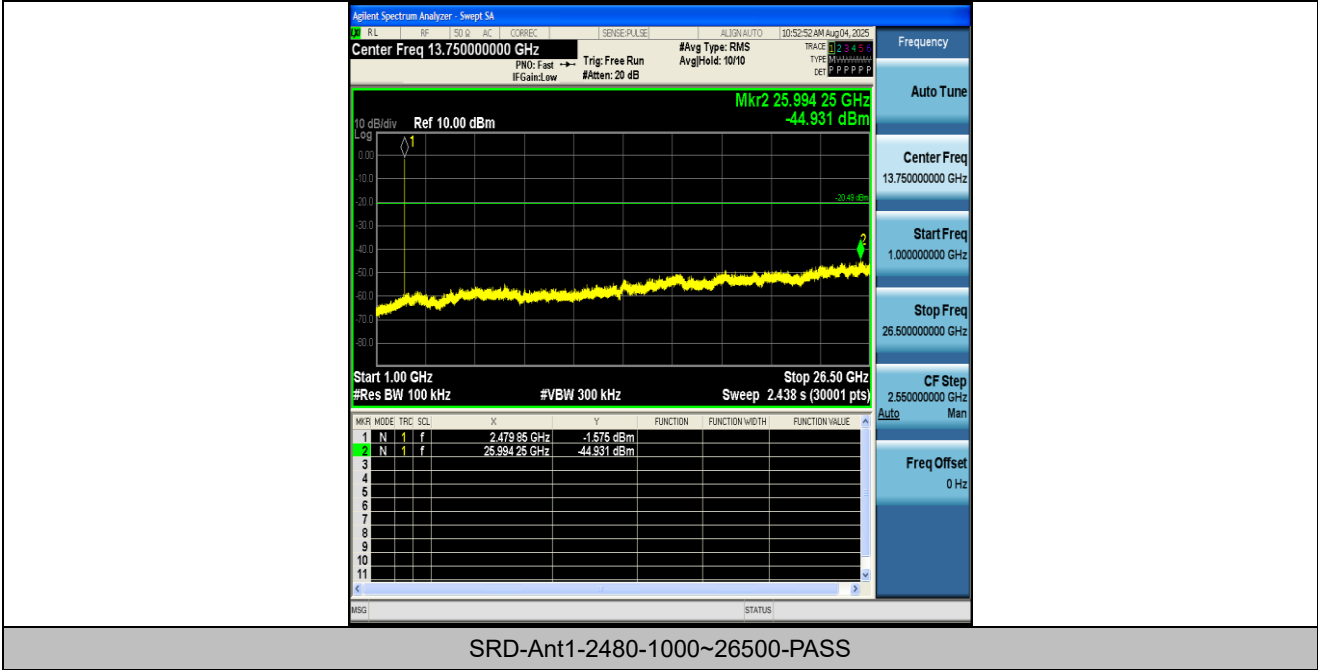




SRD-Ant1-2480-0~Reference-PASS



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	2402	19.00	19.00	100.00	0.00
SRD	Ant1	2440	19.00	19.00	100.00	0.00
SRD	Ant1	2480	19.00	19.00	100.00	0.00

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

Test Graphs

