

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Fight against Remote Control Car

Trade Mark: /

Test Model: YW524

FCC ID: 2BQKE448899

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
SRD	Ant1	2405	0.532	2404.820	2405.352	0.5	PASS
SRD	Ant1	2440	0.532	2439.824	2440.356	0.5	PASS
SRD	Ant1	2475	0.536	2474.820	2475.356	0.5	PASS

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

Test Graphs





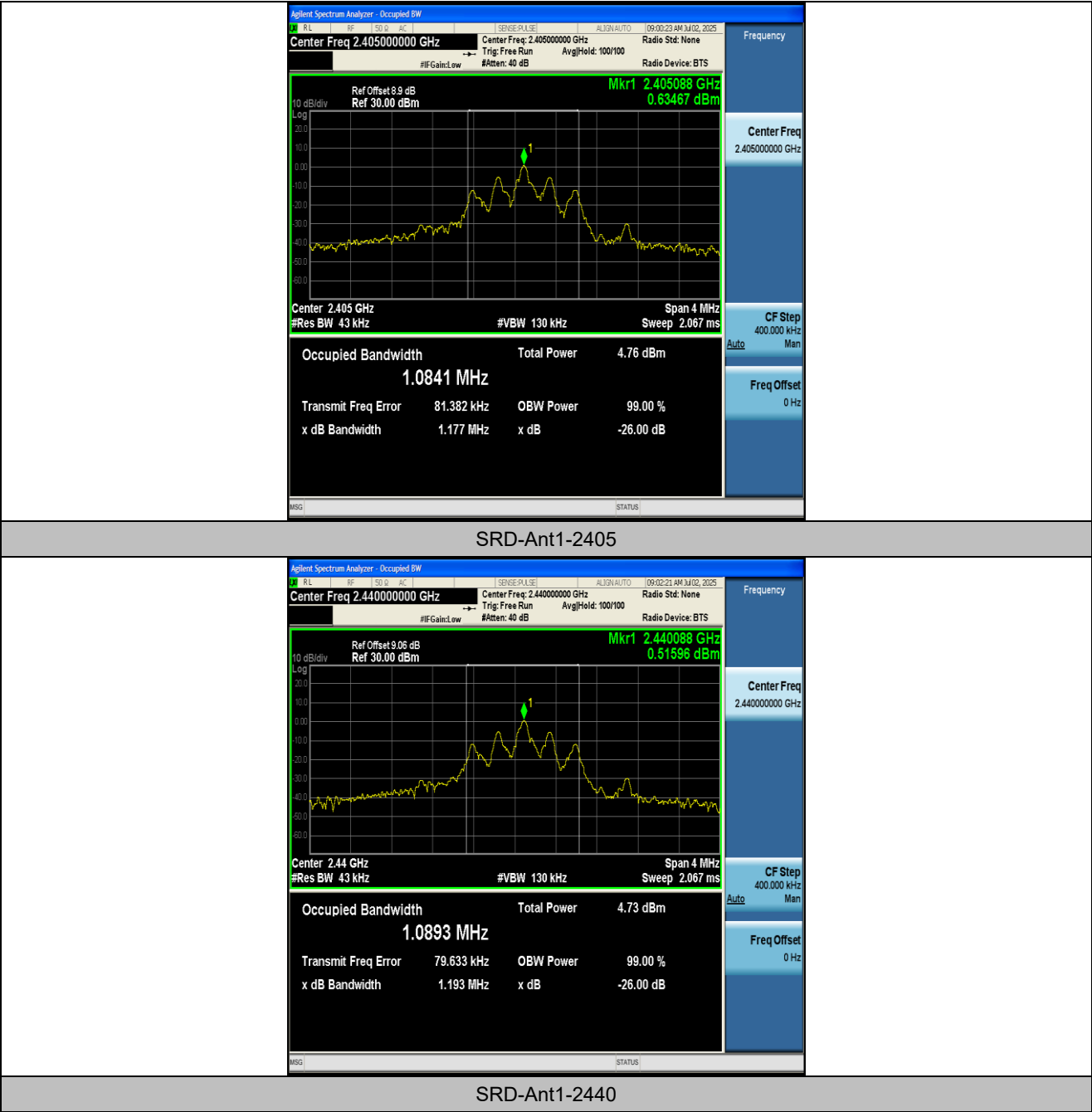
Appendix B: Occupied Channel Bandwidth

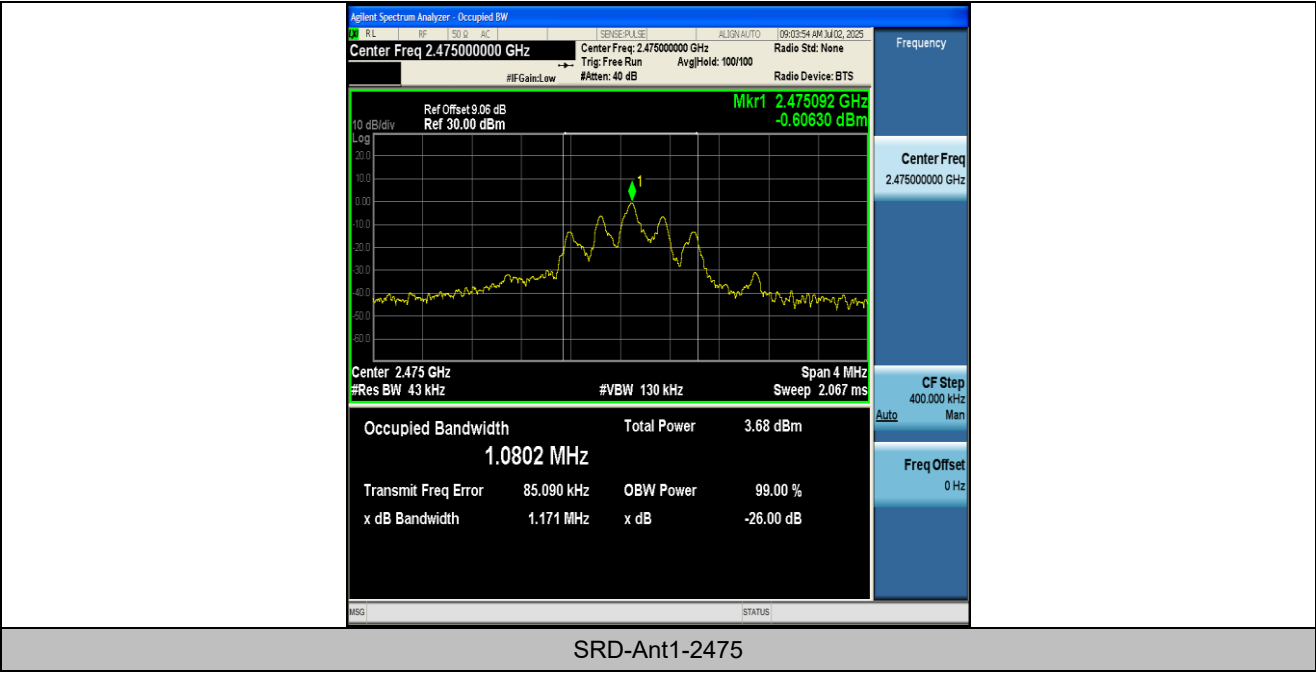
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2405	1.0841	2404.5393	2405.6234	---	---
SRD	Ant1	2440	1.0893	2439.5350	2440.6243	---	---
SRD	Ant1	2475	1.0802	2474.5450	2475.6252	---	---

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

Test Graphs





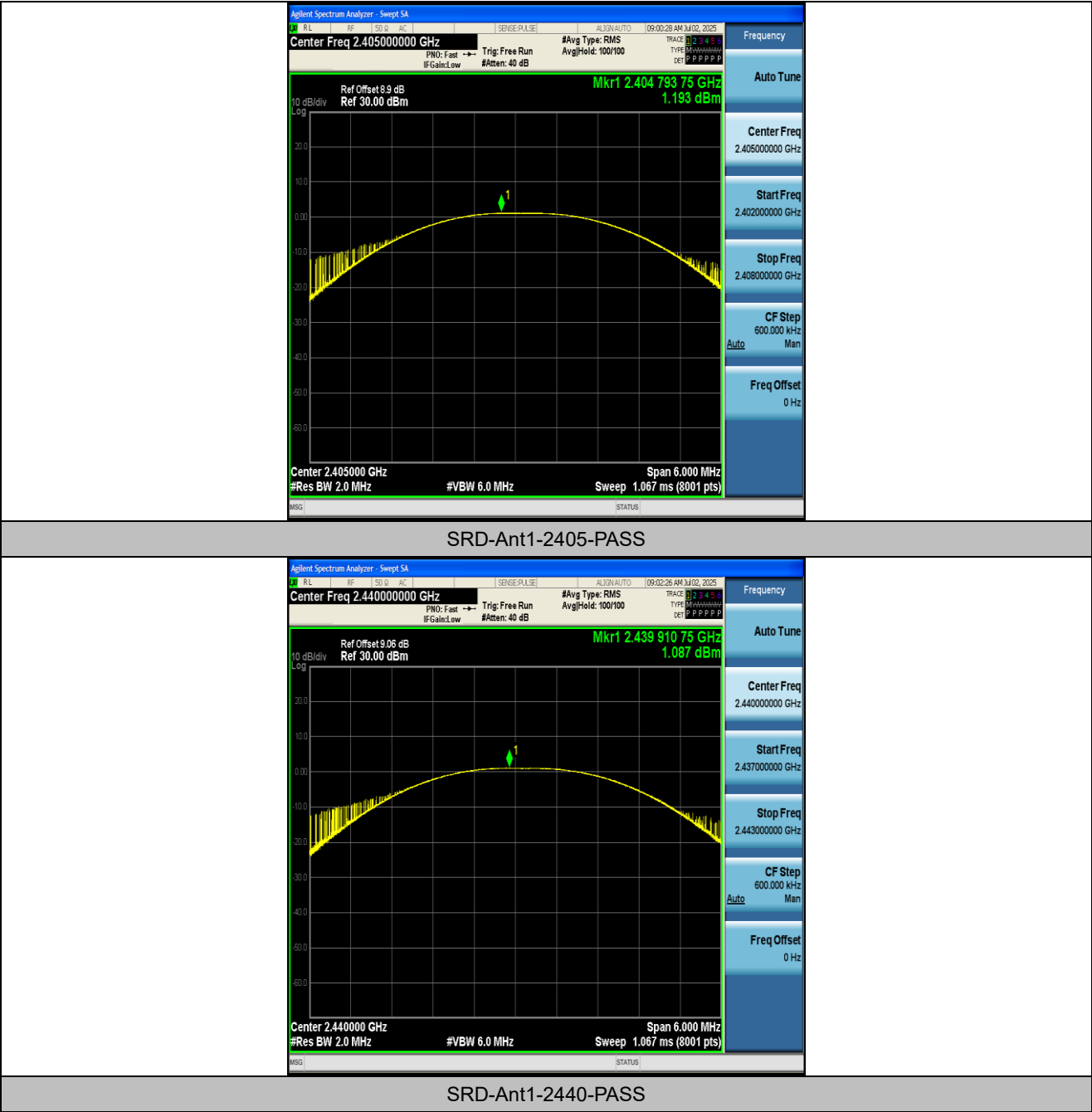
Appendix C: Maximum peak conducted output power

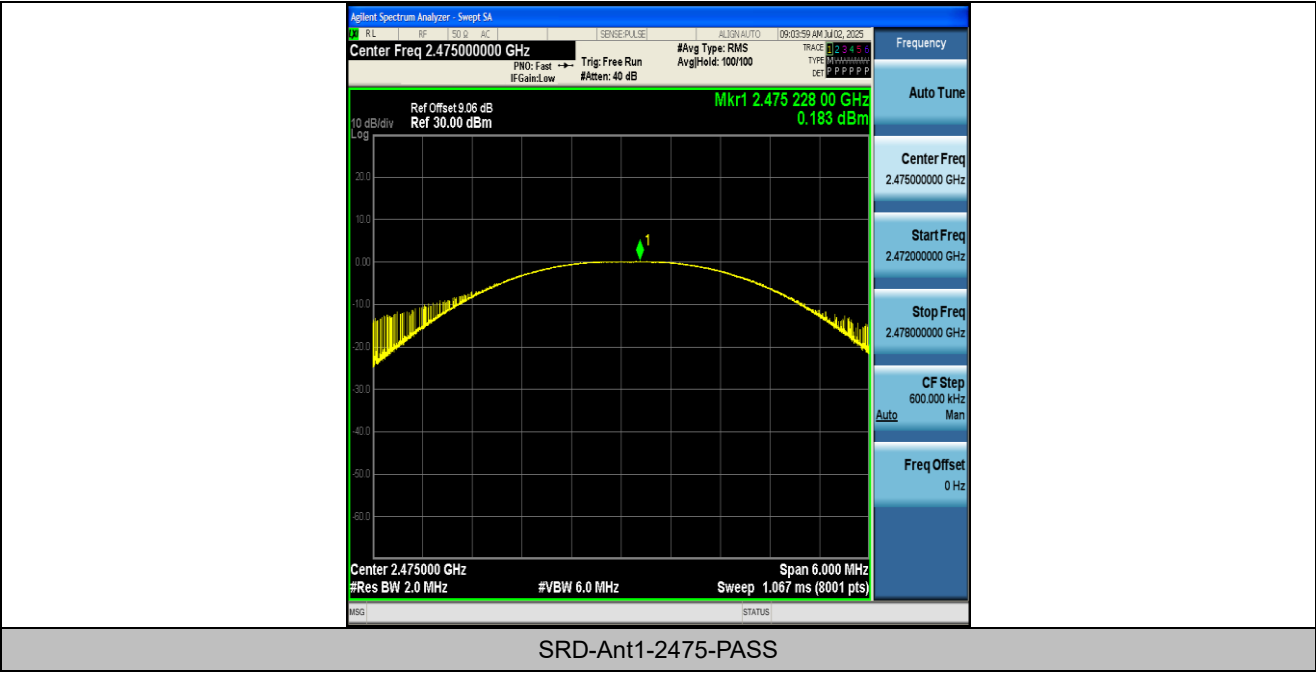
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2405	1.19	≤30	PASS
SRD	Ant1	2440	1.09	≤30	PASS
SRD	Ant1	2475	0.18	≤30	PASS

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

Test Graphs Peak





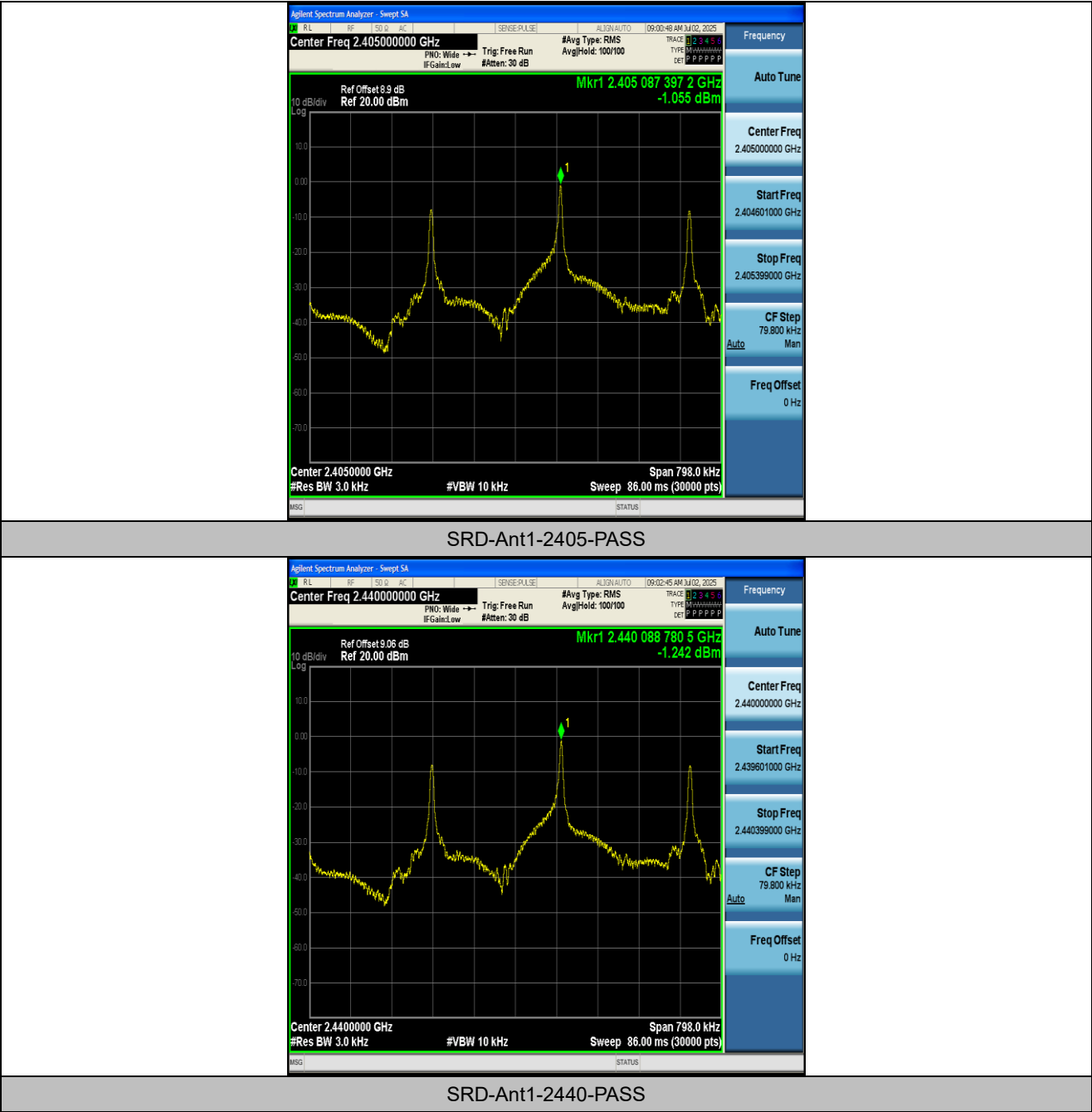
Appendix D: Maximum peak power spectral density

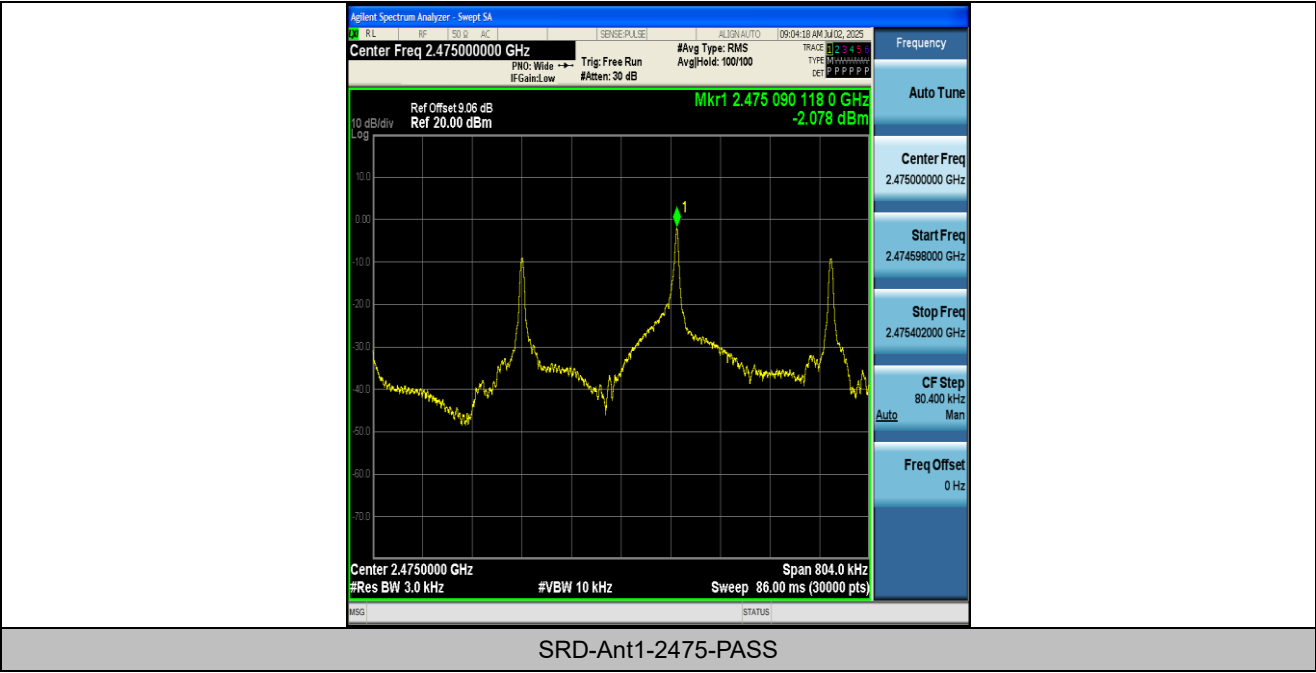
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2405	-1.06	≤8.00	PASS
SRD	Ant1	2440	-1.24	≤8.00	PASS
SRD	Ant1	2475	-2.08	≤8.00	PASS

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

Test Graphs





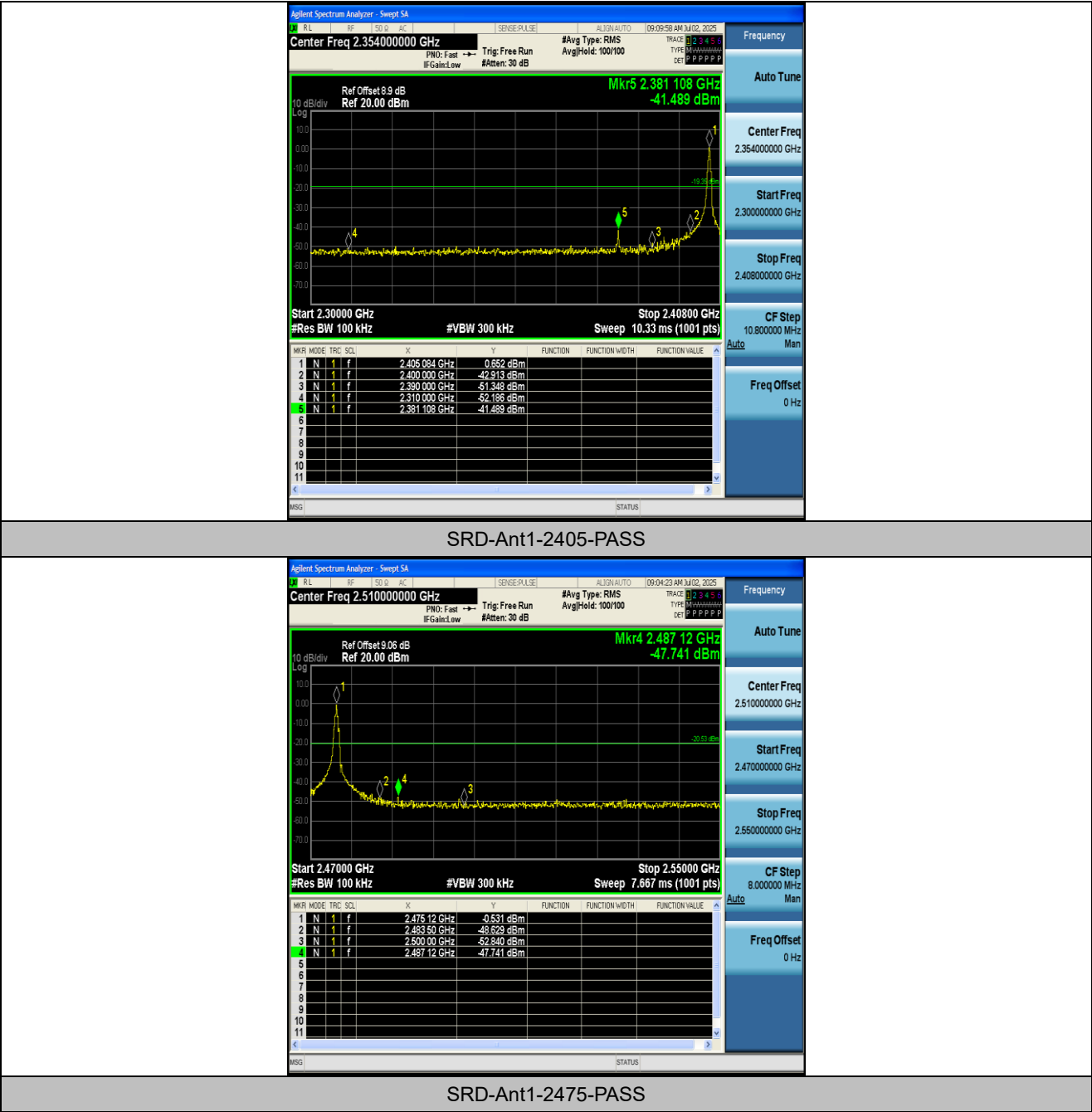
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2405	0.65	-41.49	≤-19.35	PASS
SRD	Ant1	High	2475	-0.53	-47.74	≤-20.53	PASS

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

Test Graphs



Appendix F: Conducted Spurious Emission

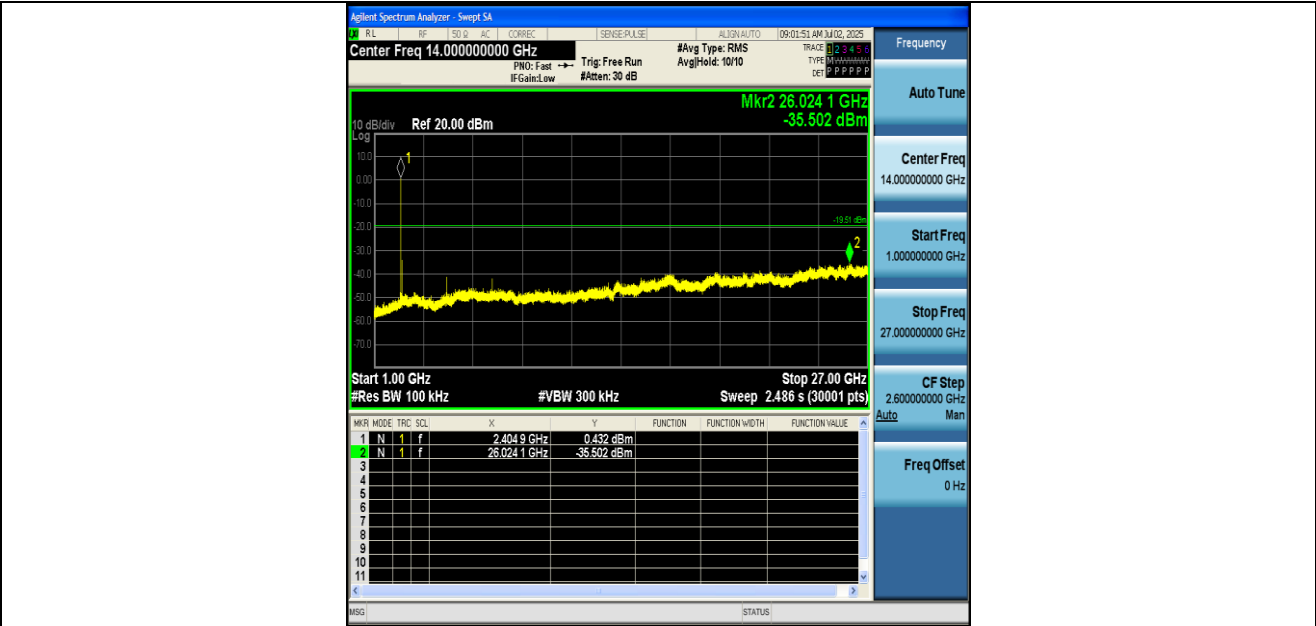
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2405	0~Reference	0.49	0.49	---	PASS
SRD	Ant1	2405	30~1000	0.49	-52.73	≤-19.51	PASS
SRD	Ant1	2405	1000~270000	0.49	-35.5	≤-19.51	PASS
SRD	Ant1	2440	0~Reference	0.35	0.35	---	PASS
SRD	Ant1	2440	30~1000	0.35	-52.78	≤-19.65	PASS
SRD	Ant1	2440	1000~270000	0.35	-35.05	≤-19.65	PASS
SRD	Ant1	2475	0~Reference	-0.52	-0.52	---	PASS
SRD	Ant1	2475	30~1000	-0.52	-53.07	≤-20.52	PASS
SRD	Ant1	2475	1000~270000	-0.52	-34.93	≤-20.52	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

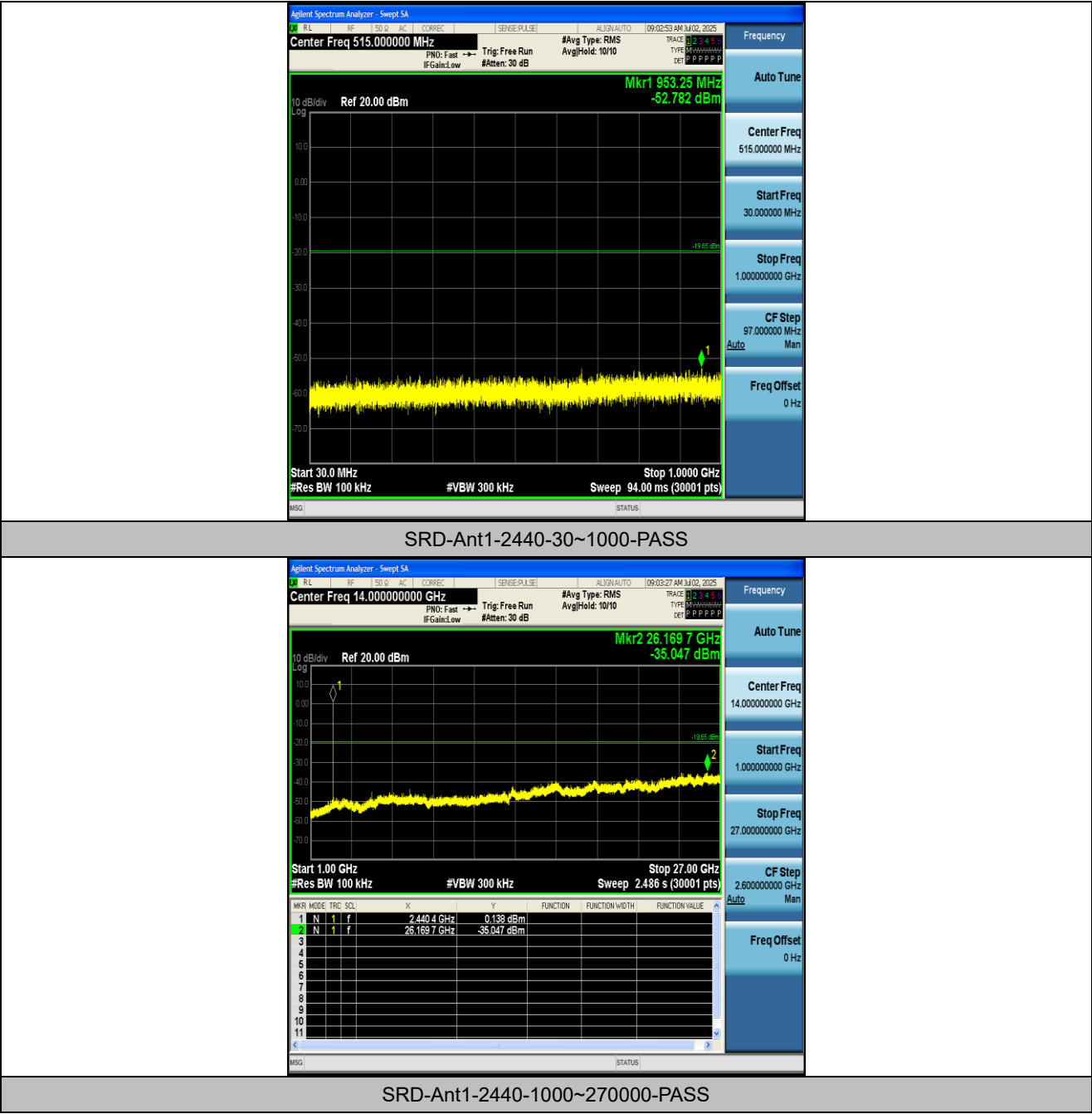




SRD-Ant1-2405-1000~270000-PASS

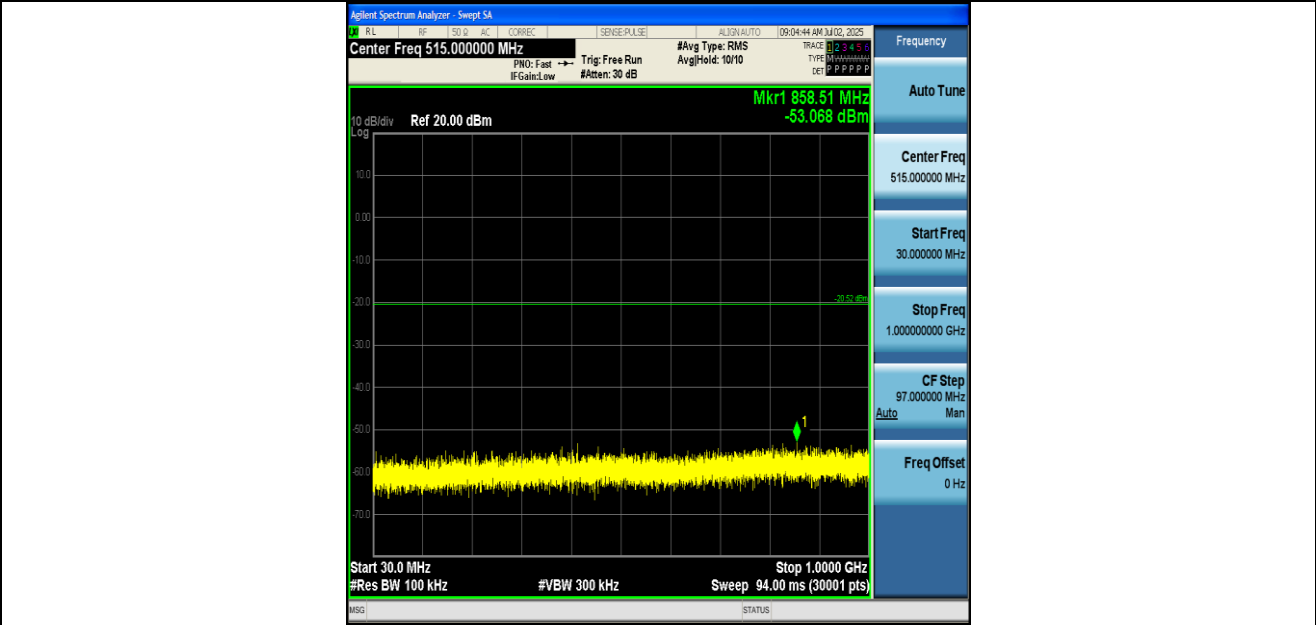


SRD-Ant1-2440-0~Reference-PASS

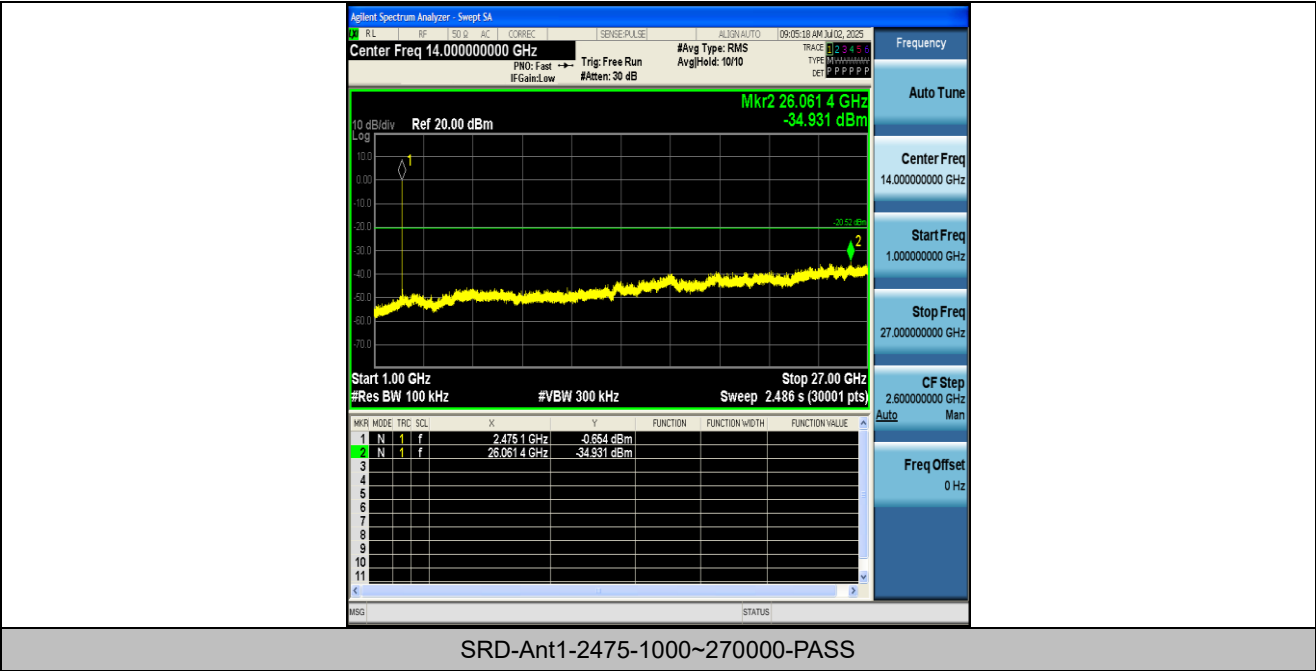




SRD-Ant1-2475-0~Reference-PASS



SRD-Ant1-2475-30~1000-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	2405	0.40	0.51	78.43	1.06
SRD	Ant1	2440	0.40	0.51	78.43	1.06
SRD	Ant1	2475	0.40	0.51	78.43	1.06

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

Test Graphs

