



Appendix Test Data for SRD (Conducted Measurement)

Product Name: RC TOYS

Trade Mark: /

Test Model: 8809

FCC ID: 2AVY8-8809

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	2403	0.604	2402.672	2403.276	0.5	PASS
SRD	Ant1	2440	0.600	2439.676	2440.276	0.5	PASS
SRD	Ant1	2477	0.612	2476.684	2477.296	0.5	PASS

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





Test Graphs





SRD-Ant1-2477-PASS





Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2403	0.71266	2402.6352	2403.3479	---	---
SRD	Ant1	2440	0.75758	2439.6160	2440.3735	---	---
SRD	Ant1	2477	0.74039	2476.5991	2477.3395	---	---

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





Test Graphs







Appendix C: Maximum peak conducted output power

Test Result Peak

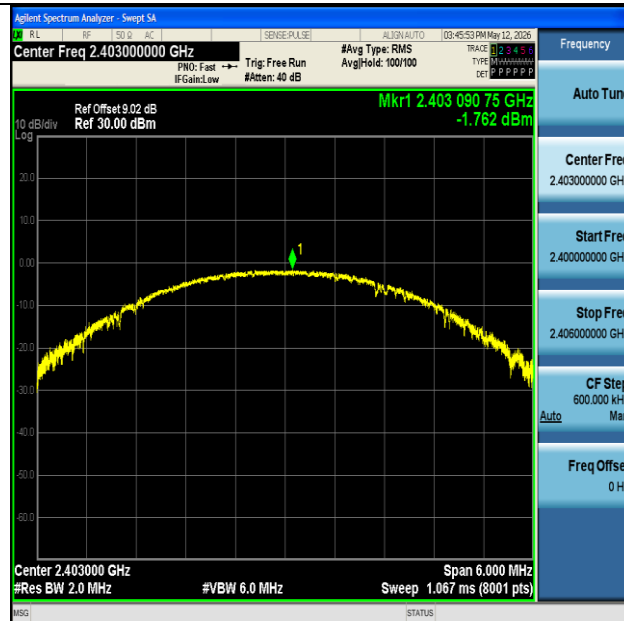
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2403	-1.76	≤30	PASS
SRD	Ant1	2440	-1.08	≤30	PASS
SRD	Ant1	2477	-1.40	≤30	PASS

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

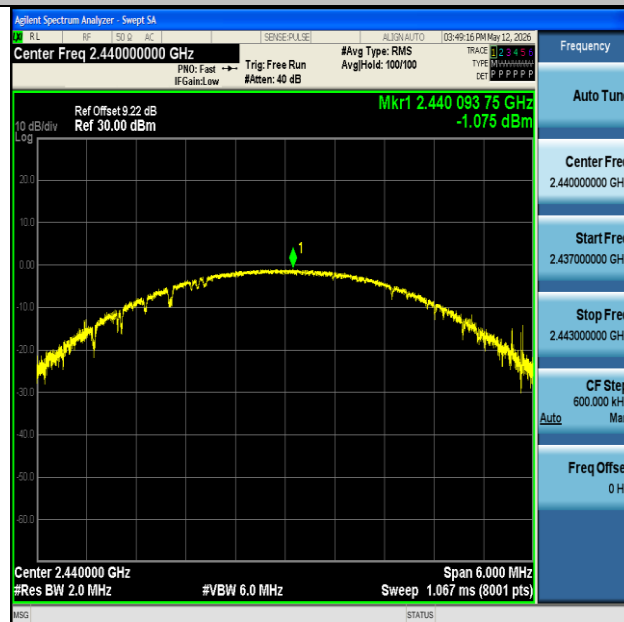




Test Graphs Peak

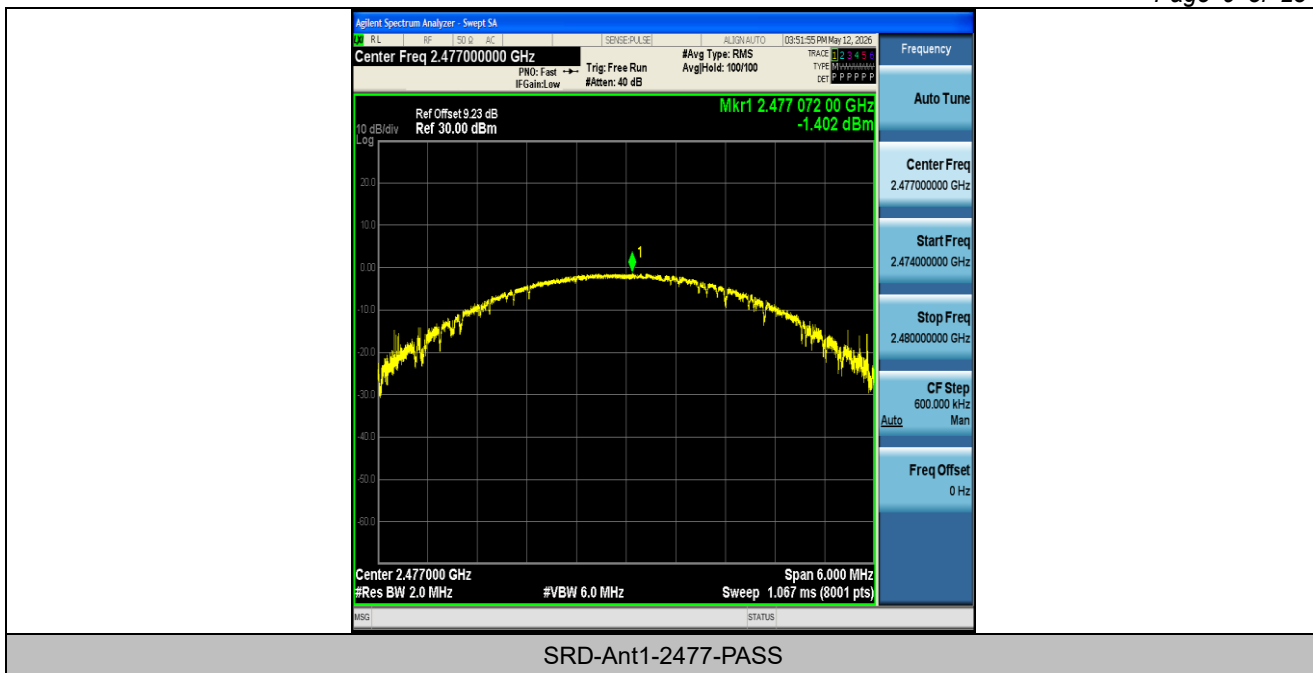


SRD-Ant1-2403-PASS



SRD-Ant1-2440-PASS







Appendix D: Maximum peak power spectral density

Test Result

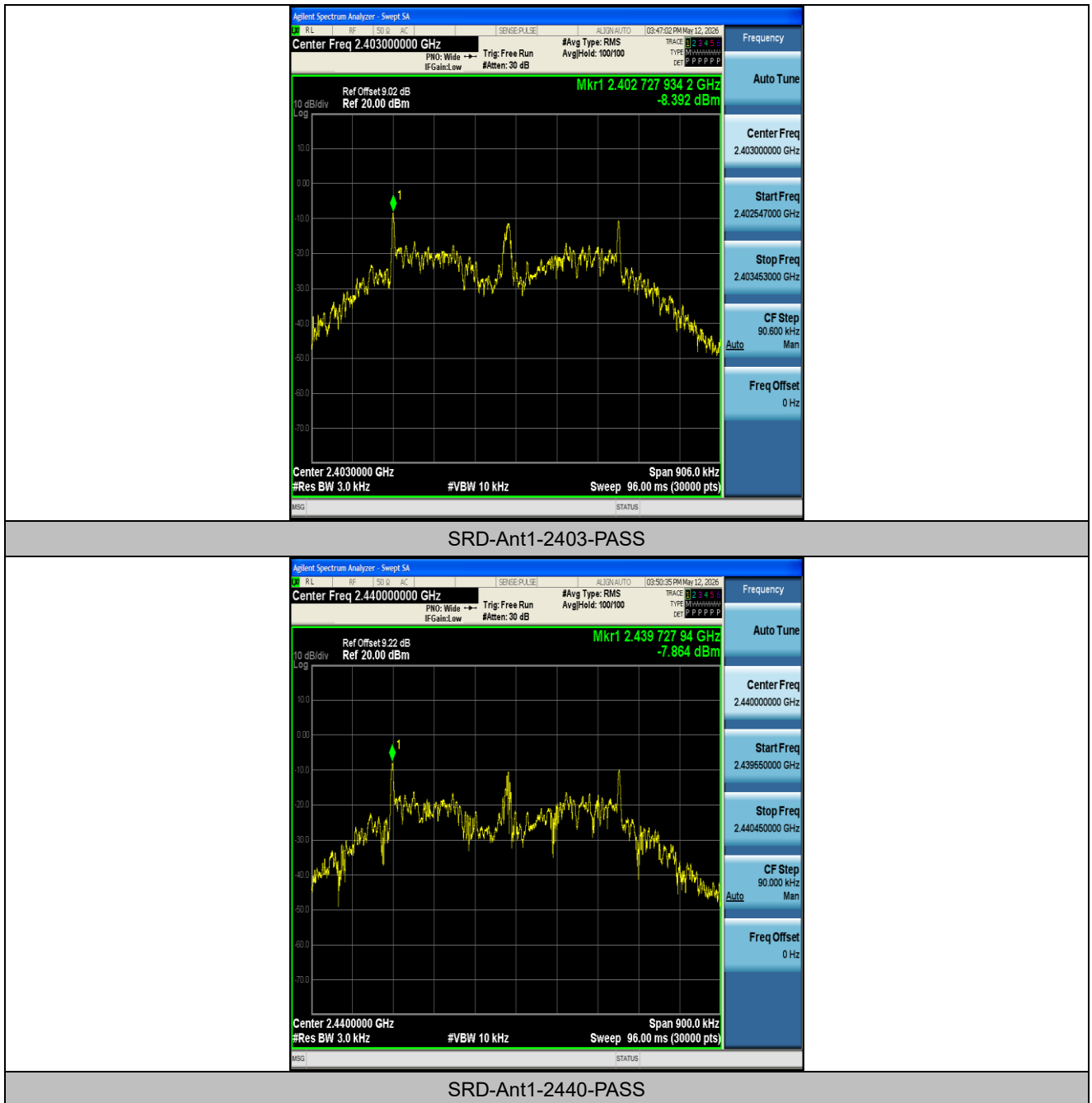
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2403	-8.39	≤8.00	PASS
SRD	Ant1	2440	-7.86	≤8.00	PASS
SRD	Ant1	2477	-8.14	≤8.00	PASS

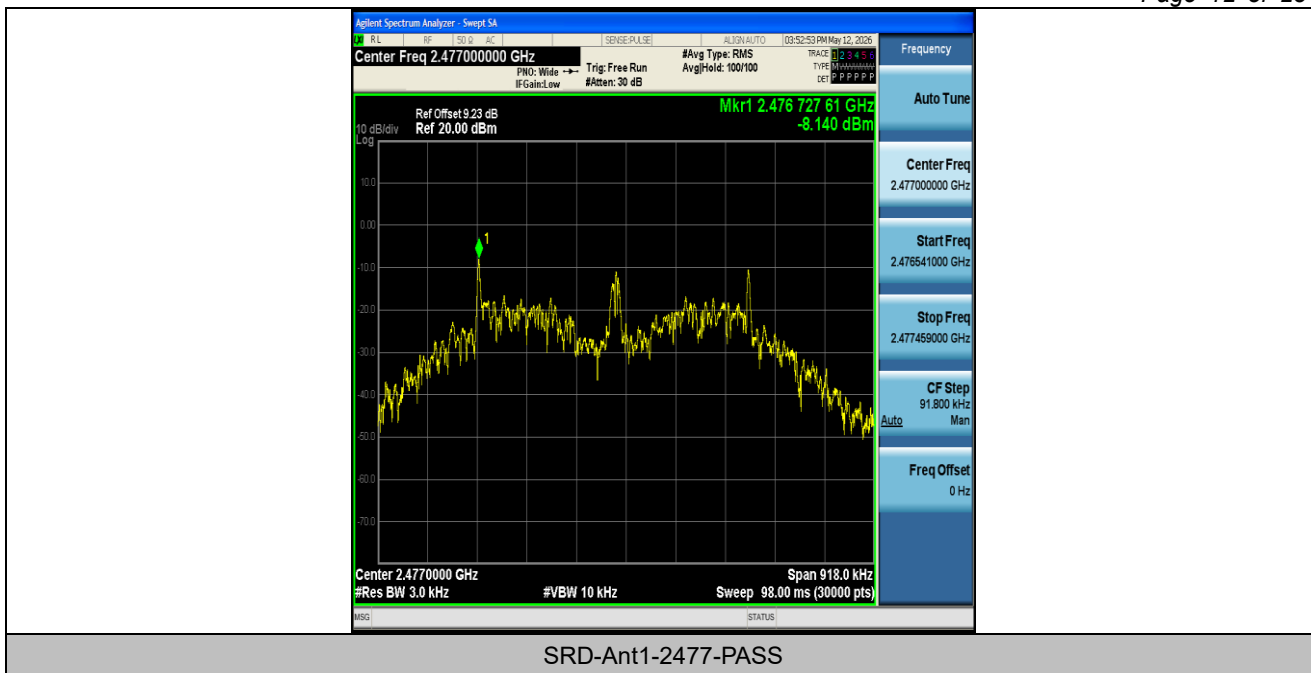
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Band edge measurements

Test Result

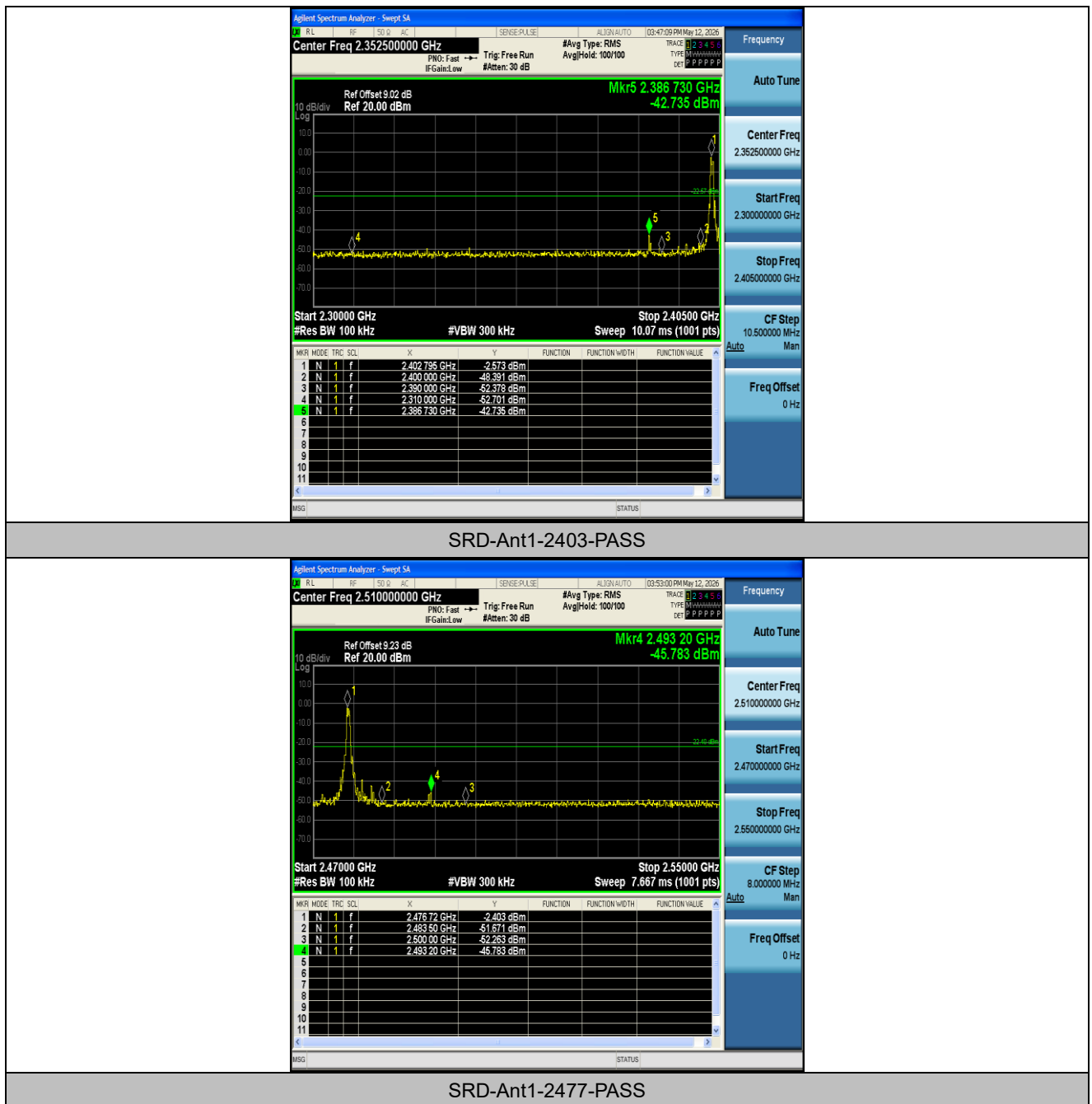
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2403	-2.57	-42.74	≤ -22.57	PASS
SRD	Ant1	High	2477	-2.40	-45.78	≤ -22.4	PASS

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





Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

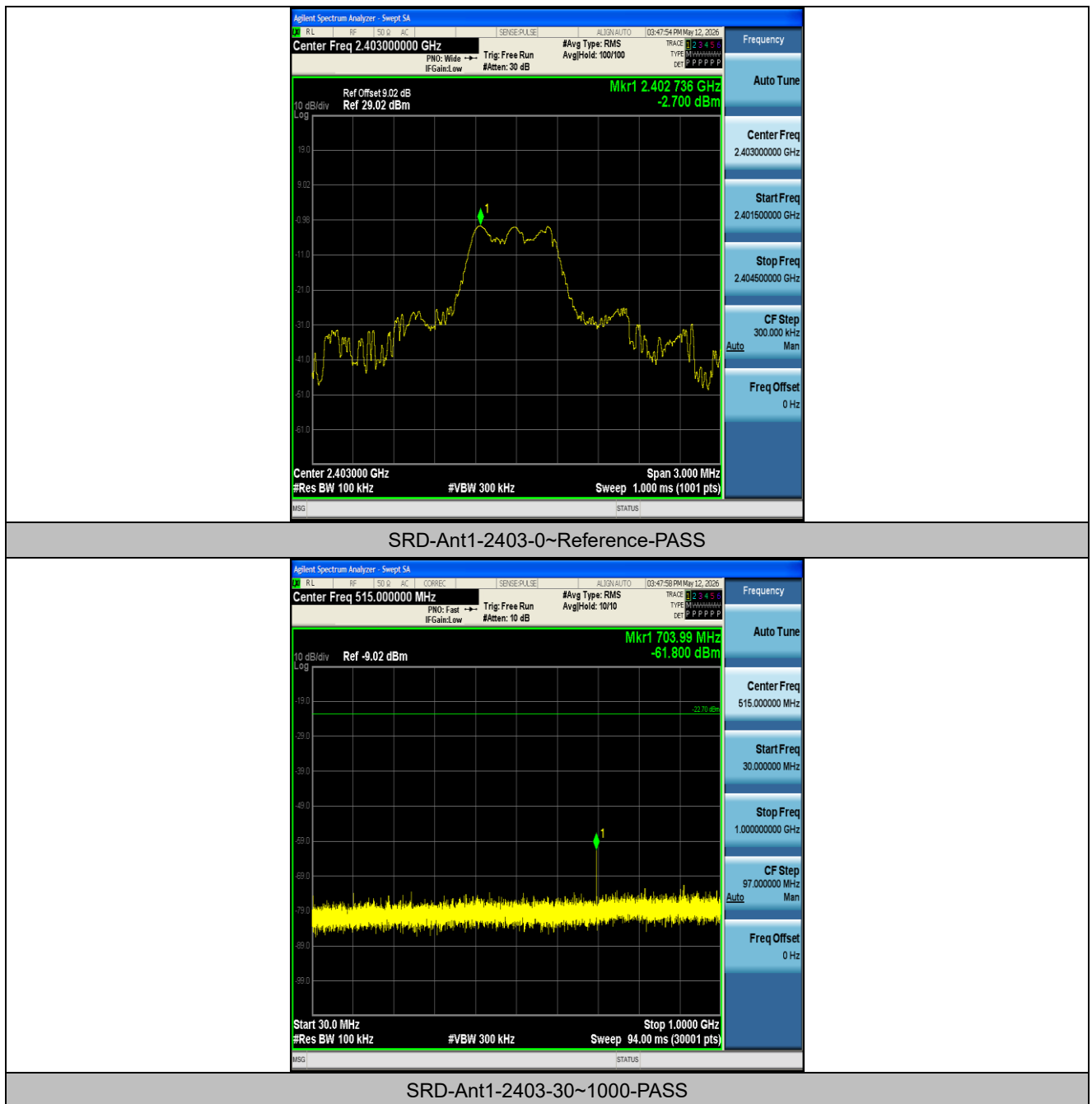
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2403	0~Reference	-2.70	-2.70	---	PASS
SRD	Ant1	2403	30~1000	-2.70	-61.8	≤ -22.7	PASS
SRD	Ant1	2403	1000~26500	-2.70	-48.01	≤ -22.7	PASS
SRD	Ant1	2440	0~Reference	-2.23	-2.23	---	PASS
SRD	Ant1	2440	30~1000	-2.23	-72.53	≤ -22.23	PASS
SRD	Ant1	2440	1000~26500	-2.23	-47.39	≤ -22.23	PASS
SRD	Ant1	2477	0~Reference	-2.26	-2.26	---	PASS
SRD	Ant1	2477	30~1000	-2.26	-72.99	≤ -22.26	PASS
SRD	Ant1	2477	1000~26500	-2.26	-45.38	≤ -22.26	PASS

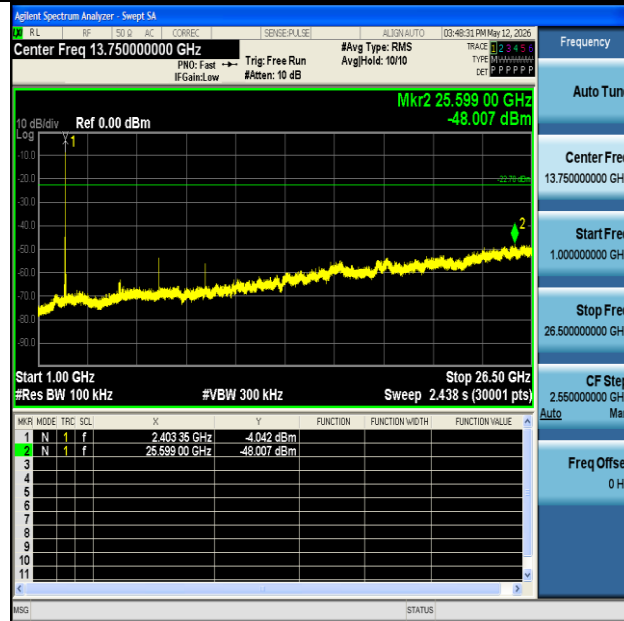
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.





Test Graphs



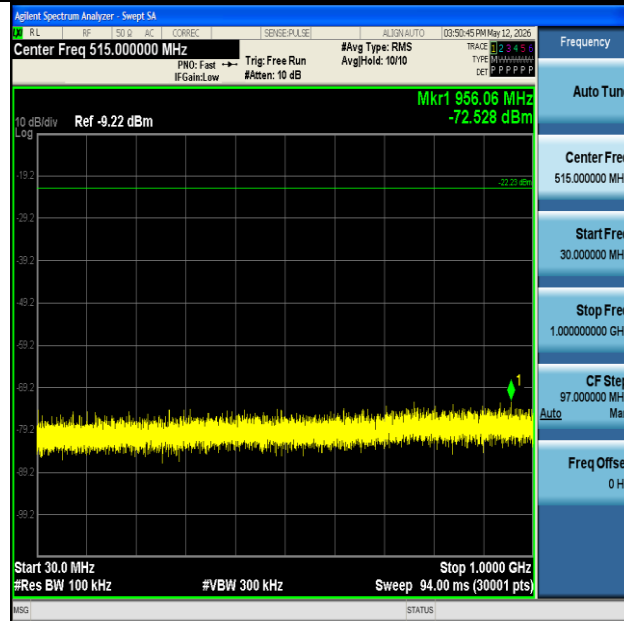


SRD-Ant1-2403-1000~26500-PASS

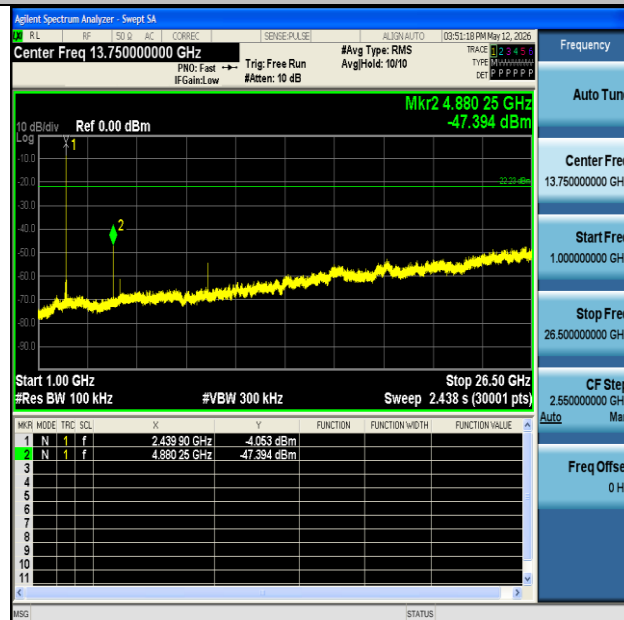


SRD-Ant1-2440-0~Reference-PASS





SRD-Ant1-2440-30~1000-PASS

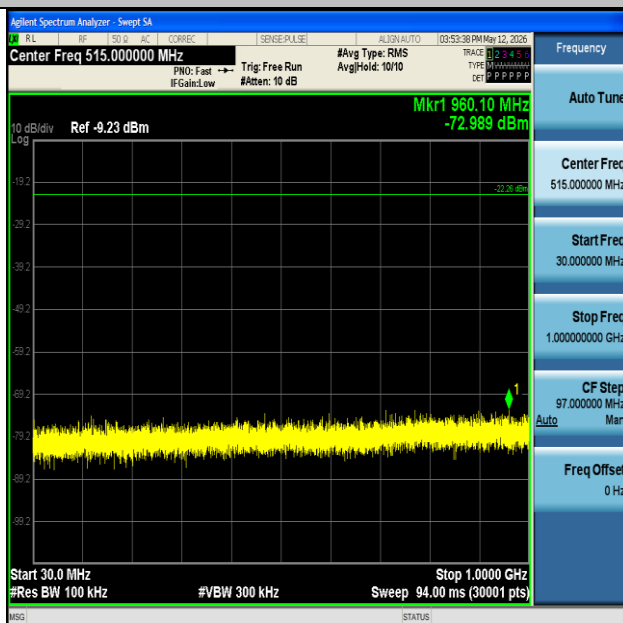


SRD-Ant1-2440-1000~26500-PASS



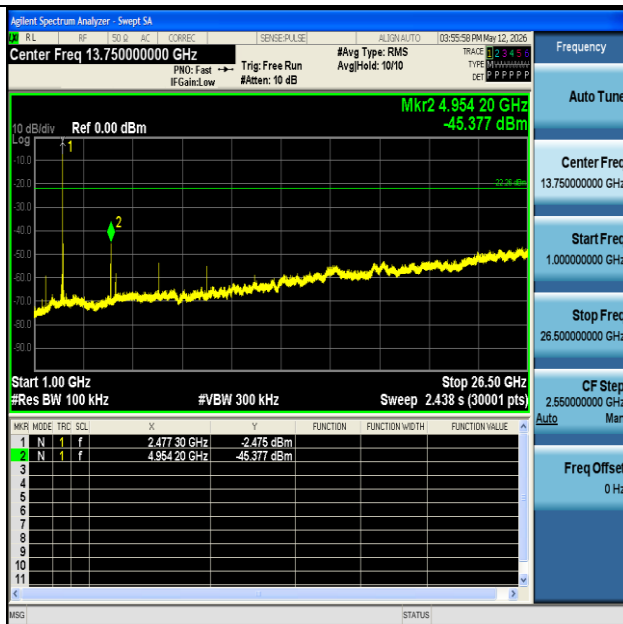


SRD-Ant1-2477-0~Reference-PASS



SRD-Ant1-2477-30~1000-PASS





SRD-Ant1-2477-1000~26500-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	1.04	19.88	5.23	12.81
SRD	Ant1	2440	1.04	19.88	5.23	12.81
SRD	Ant1	2477	1.04	19.84	5.24	12.81

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





Test Graphs



