



Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mouse

Trade Mark: Keychron

Test Model: G4

FCC ID: 2BGKB-G4

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	2402	1.300	2401.352	2402.652	0.5	PASS
SRD	Ant1	2440	1.240	2439.352	2440.592	0.5	PASS
SRD	Ant1	2480	1.348	2479.316	2480.664	0.5	PASS

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





Test Graphs





SRD-Ant1-2480-PASS





Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2402	1.9935	2400.9881	2402.9816	---	---
SRD	Ant1	2440	2.0645	2438.9550	2441.0195	---	---
SRD	Ant1	2480	2.0335	2478.9768	2481.0103	---	---

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





Test Graphs







Appendix C: Maximum peak conducted output power

Test Result Peak

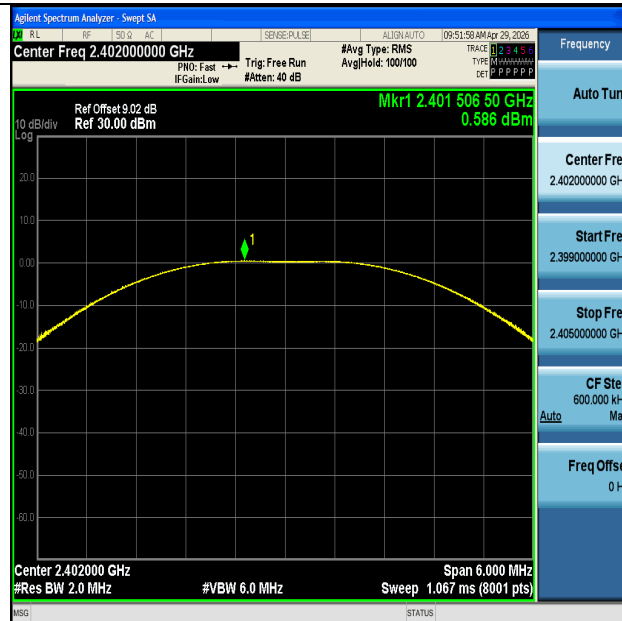
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2402	0.59	≤30	PASS
SRD	Ant1	2440	1.08	≤30	PASS
SRD	Ant1	2480	0.90	≤30	PASS

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

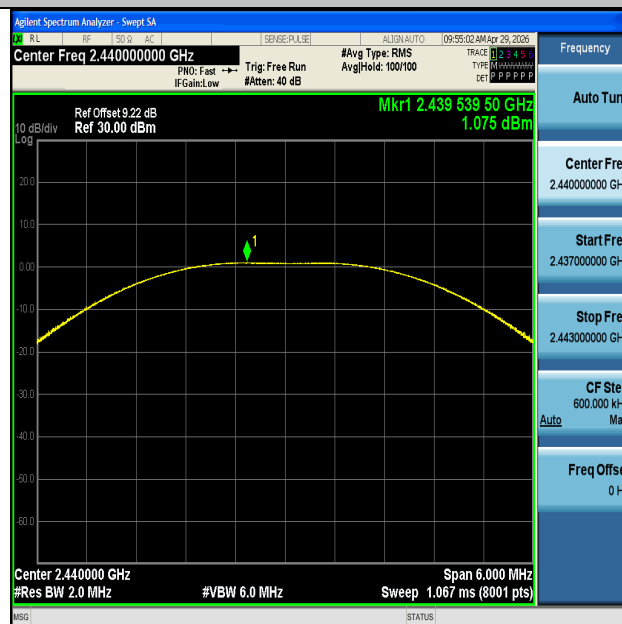




Test Graphs Peak

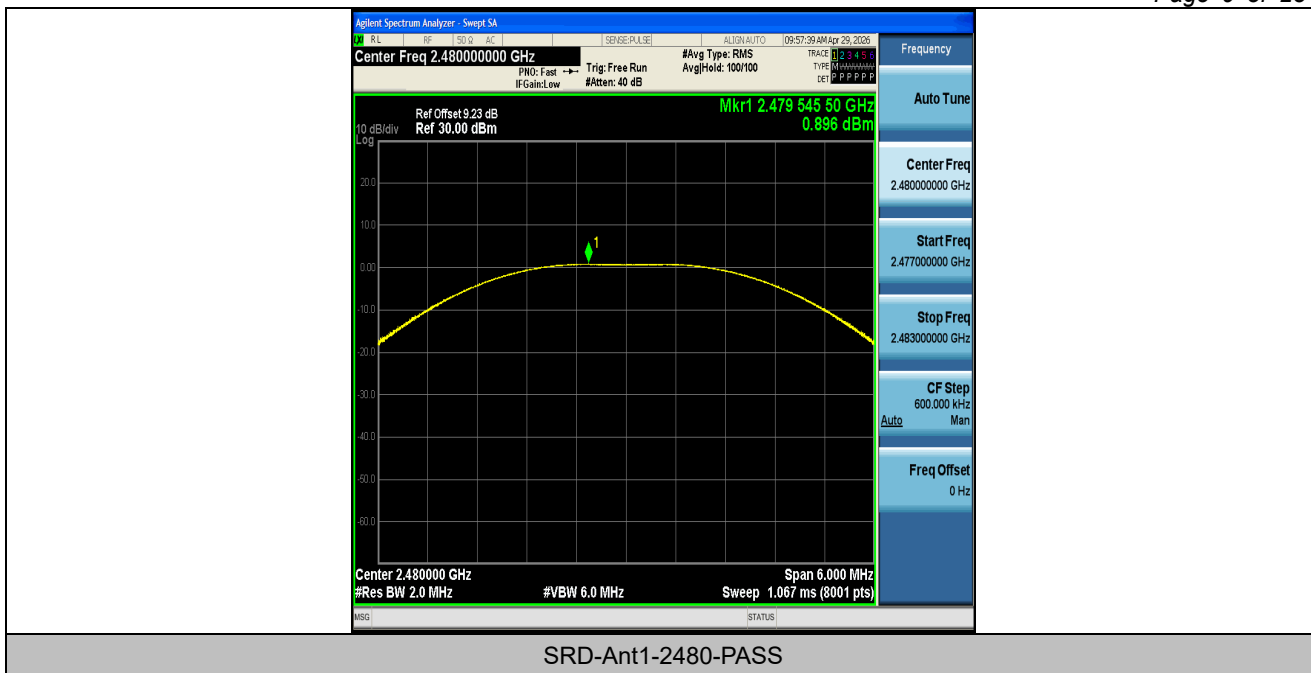


SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS







Appendix D: Maximum peak power spectral density

Test Result

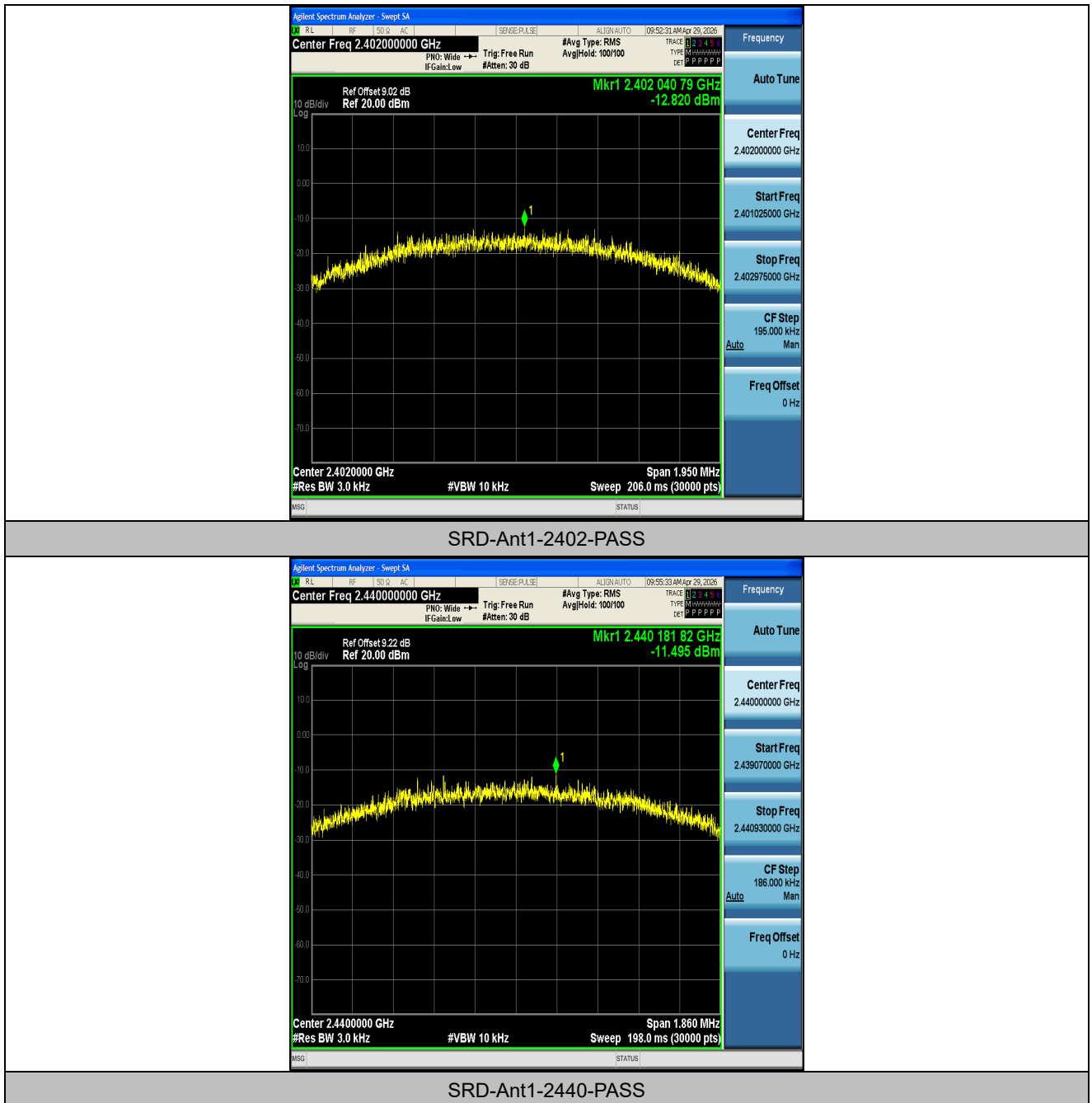
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2402	-12.82	≤8.00	PASS
SRD	Ant1	2440	-11.50	≤8.00	PASS
SRD	Ant1	2480	-12.15	≤8.00	PASS

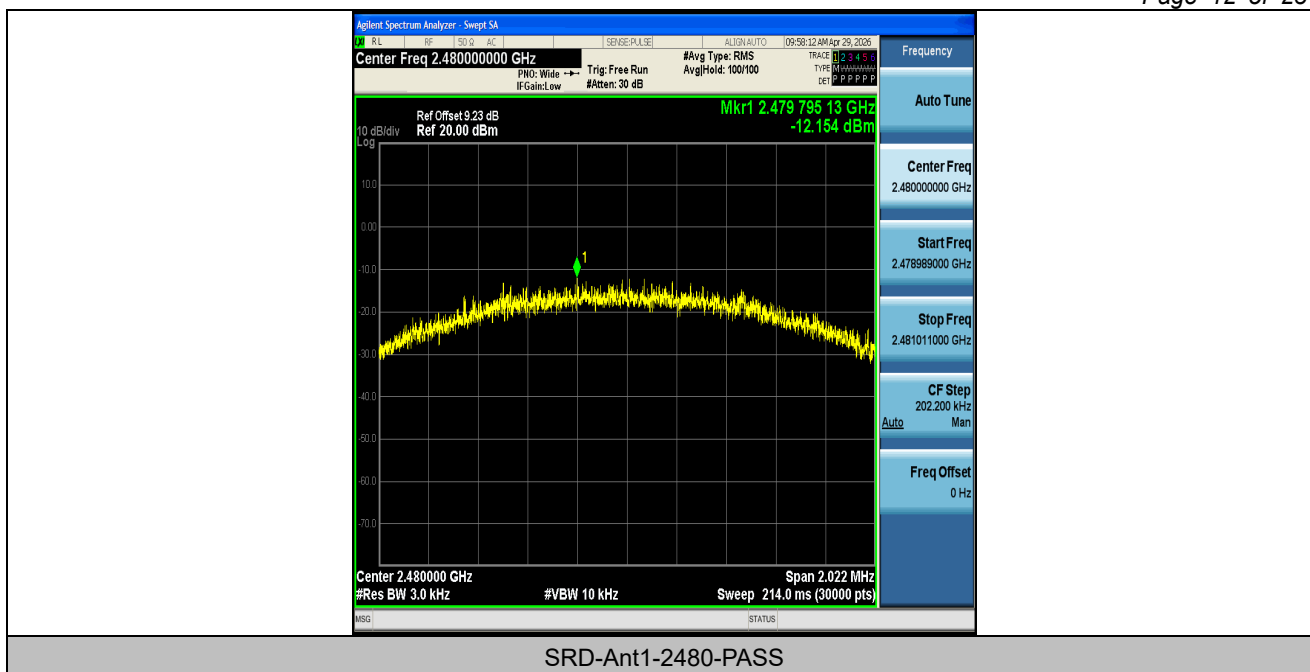
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Band edge measurements

Test Result

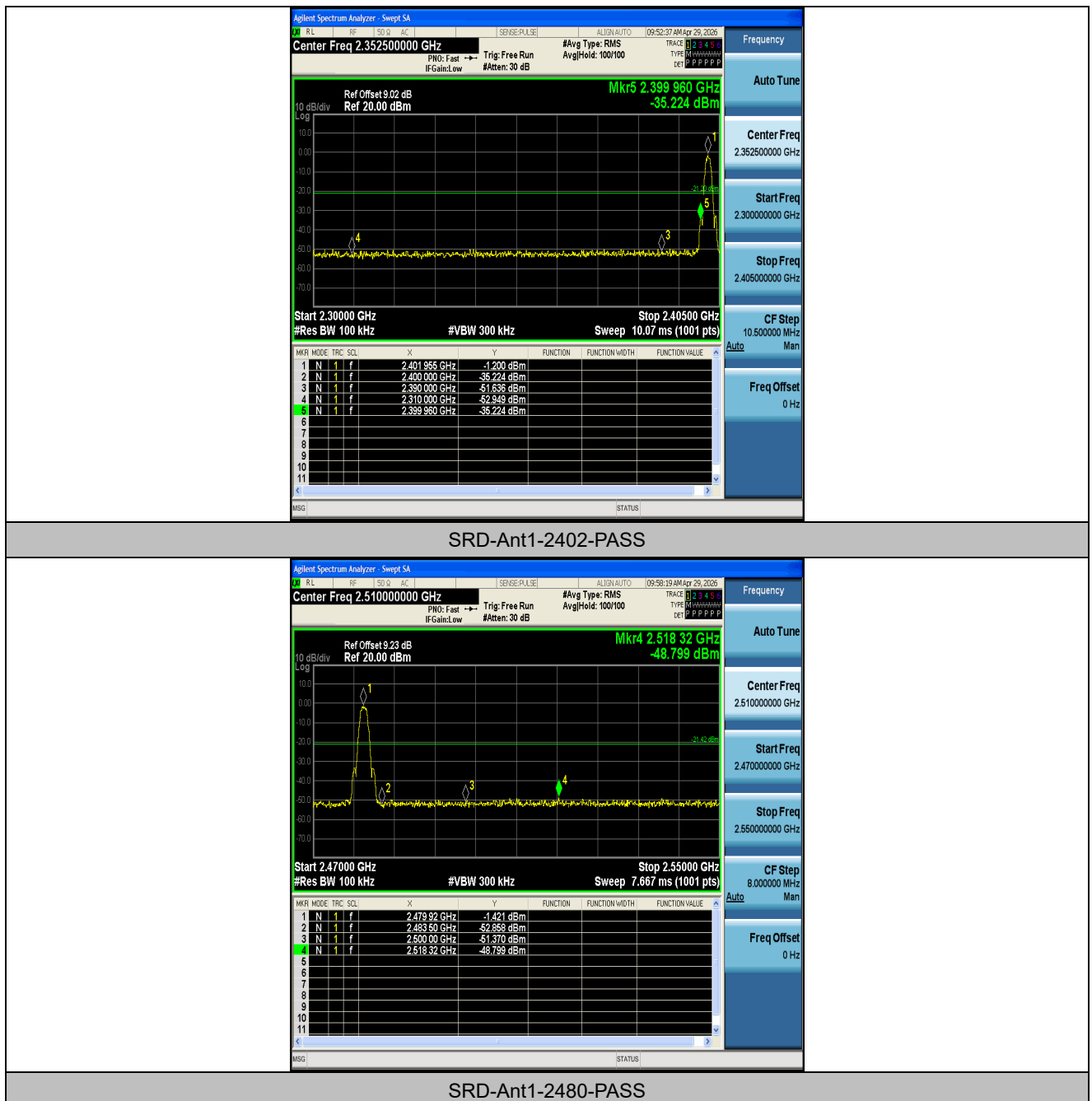
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	-1.20	-35.22	≤ -21.2	PASS
SRD	Ant1	High	2480	-1.42	-48.8	≤ -21.42	PASS

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





Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

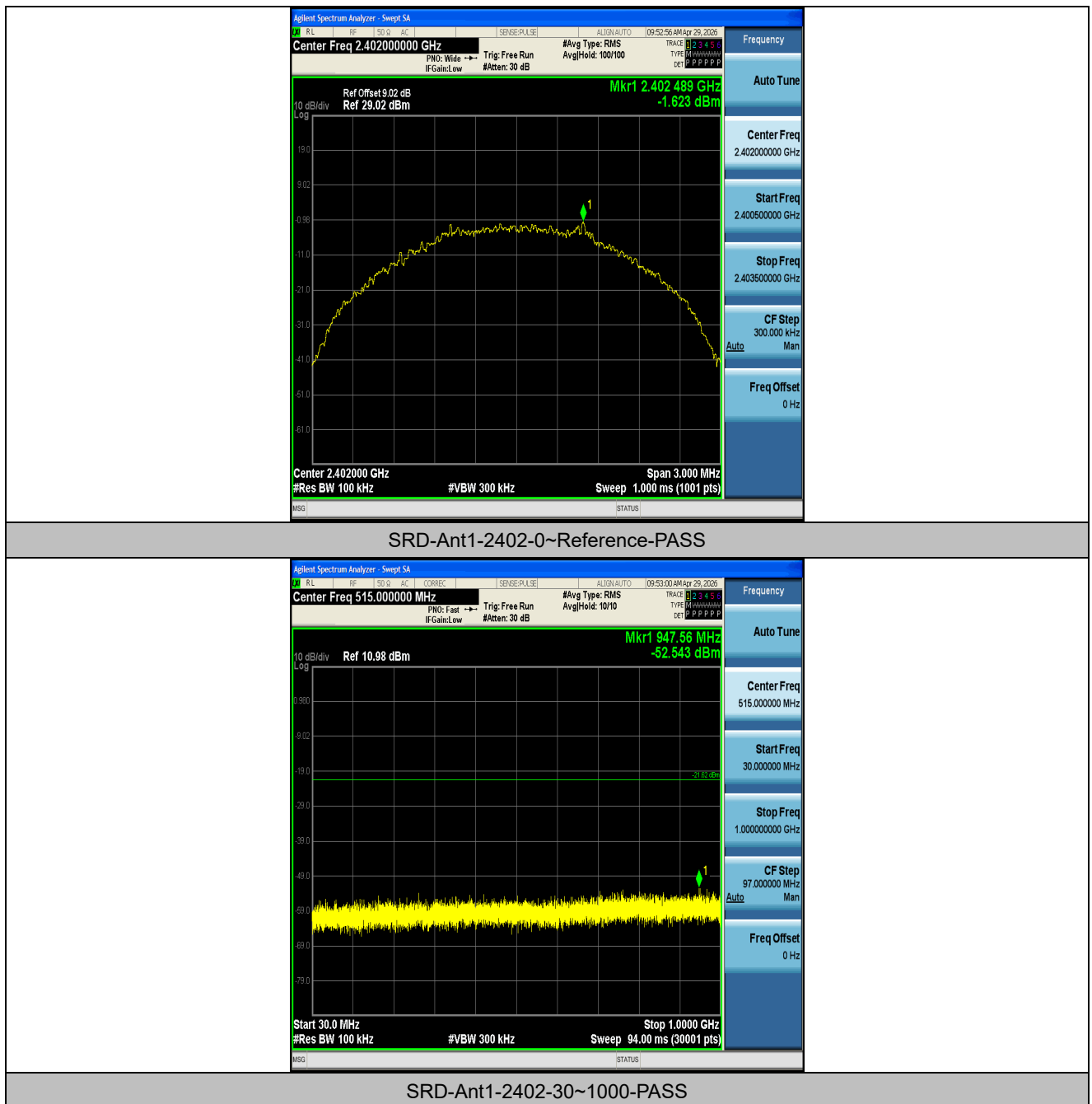
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2402	0~Reference	-1.62	-1.62	---	PASS
SRD	Ant1	2402	30~1000	-1.62	-52.54	≤ -21.62	PASS
SRD	Ant1	2402	1000~26500	-1.62	-27.77	≤ -21.62	PASS
SRD	Ant1	2440	0~Reference	-1.68	-1.68	---	PASS
SRD	Ant1	2440	30~1000	-1.68	-53.12	≤ -21.68	PASS
SRD	Ant1	2440	1000~26500	-1.68	-27.82	≤ -21.68	PASS
SRD	Ant1	2480	0~Reference	-1.67	-1.67	---	PASS
SRD	Ant1	2480	30~1000	-1.67	-52.65	≤ -21.67	PASS
SRD	Ant1	2480	1000~26500	-1.67	-26.98	≤ -21.67	PASS

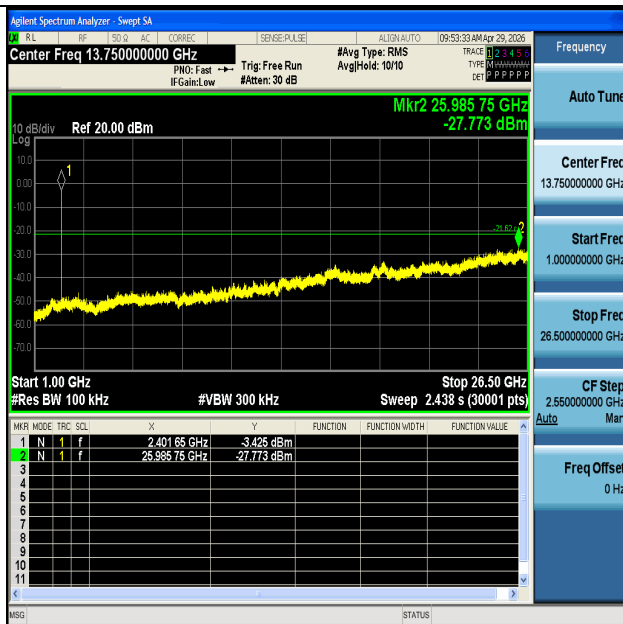
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



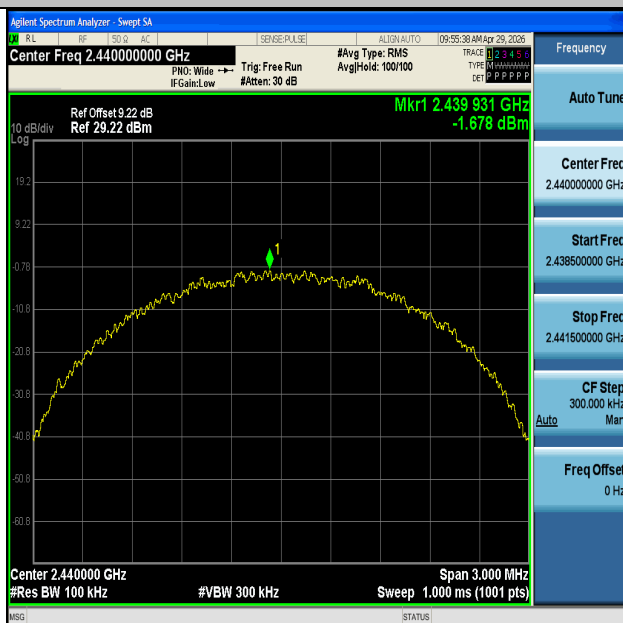


Test Graphs



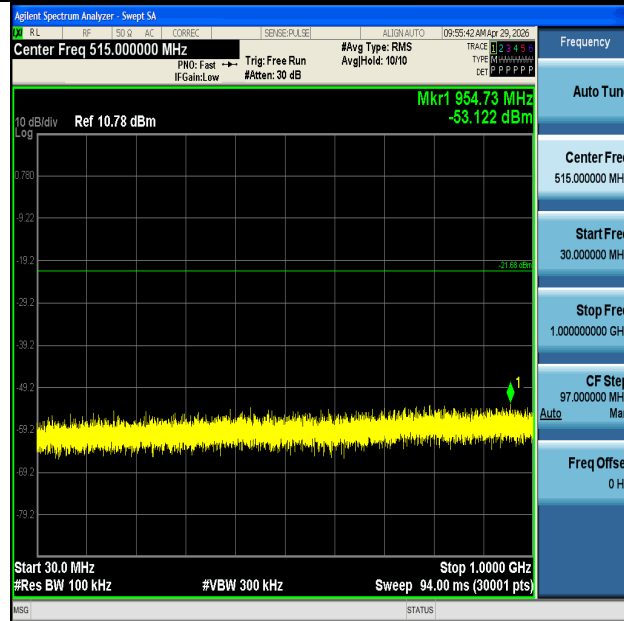


SRD-Ant1-2402-1000~26500-PASS



SRD-Ant1-2440-0~Reference-PASS





SRD-Ant1-2440-30~1000-PASS

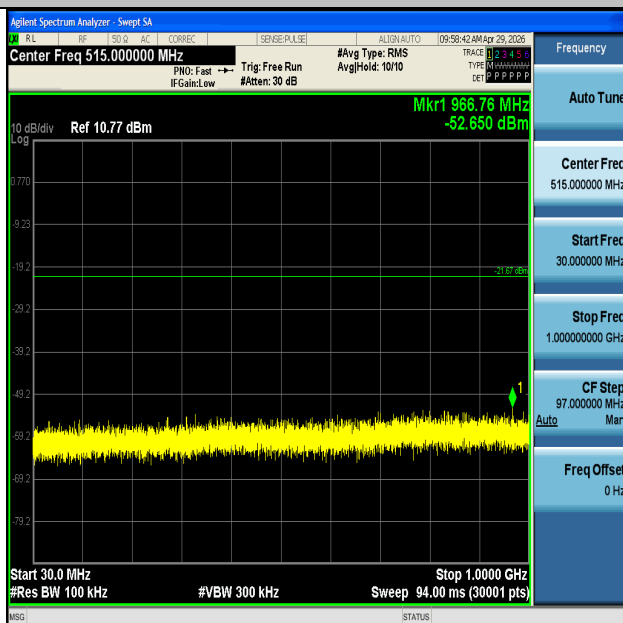


SRD-Ant1-2440-1000~26500-PASS



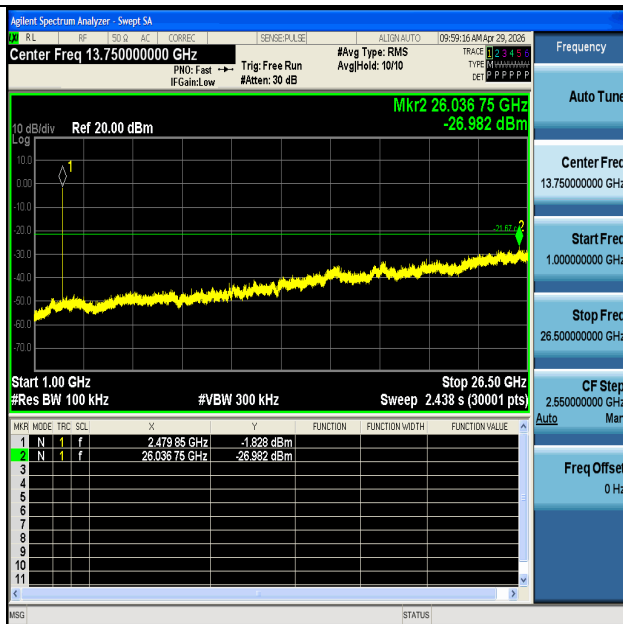


SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS





SRD-Ant1-2480-1000~26500-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	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)





The image displays two screenshots of an Agilent Spectrum Analyzer interface, showing frequency response plots for two different antennas: NTNV-SRD-Ant1-2402 and NTNV-SRD-Ant1-2440.

Top Screenshot (Antenna: NTNV-SRD-Ant1-2402):

- Center Freq:** 2.402000000 GHz
- Span:** 0 Hz
- Res BW:** 8 MHz
- #VBW:** 8.0 MHz
- Sweep:** 19.00 ms (1001 pts)
- Ref Offset:** 9.02 dB
- Ref:** 29.02 dBm
- Frequency Range:** 2.402000000 GHz to 2.402000000 GHz
- CF Step:** 8.000000 MHz
- Freq Offset:** 0 Hz

Bottom Screenshot (Antenna: NTNV-SRD-Ant1-2440):

- Center Freq:** 2.440000000 GHz
- Span:** 0 Hz
- Res BW:** 8 MHz
- #VBW:** 8.0 MHz
- Sweep:** 19.00 ms (1001 pts)
- Ref Offset:** 9.22 dB
- Ref:** 29.22 dBm
- Frequency Range:** 2.440000000 GHz to 2.440000000 GHz
- CF Step:** 8.000000 MHz
- Freq Offset:** 0 Hz

Both plots show a flat line at approximately -10 dBm across the frequency range. The interface includes various settings like Center Freq, Span, Res BW, and a table for marker data.

