

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: Q2 MAX

FCC ID: 2ASF4-Q2MAX

Environmental Conditions

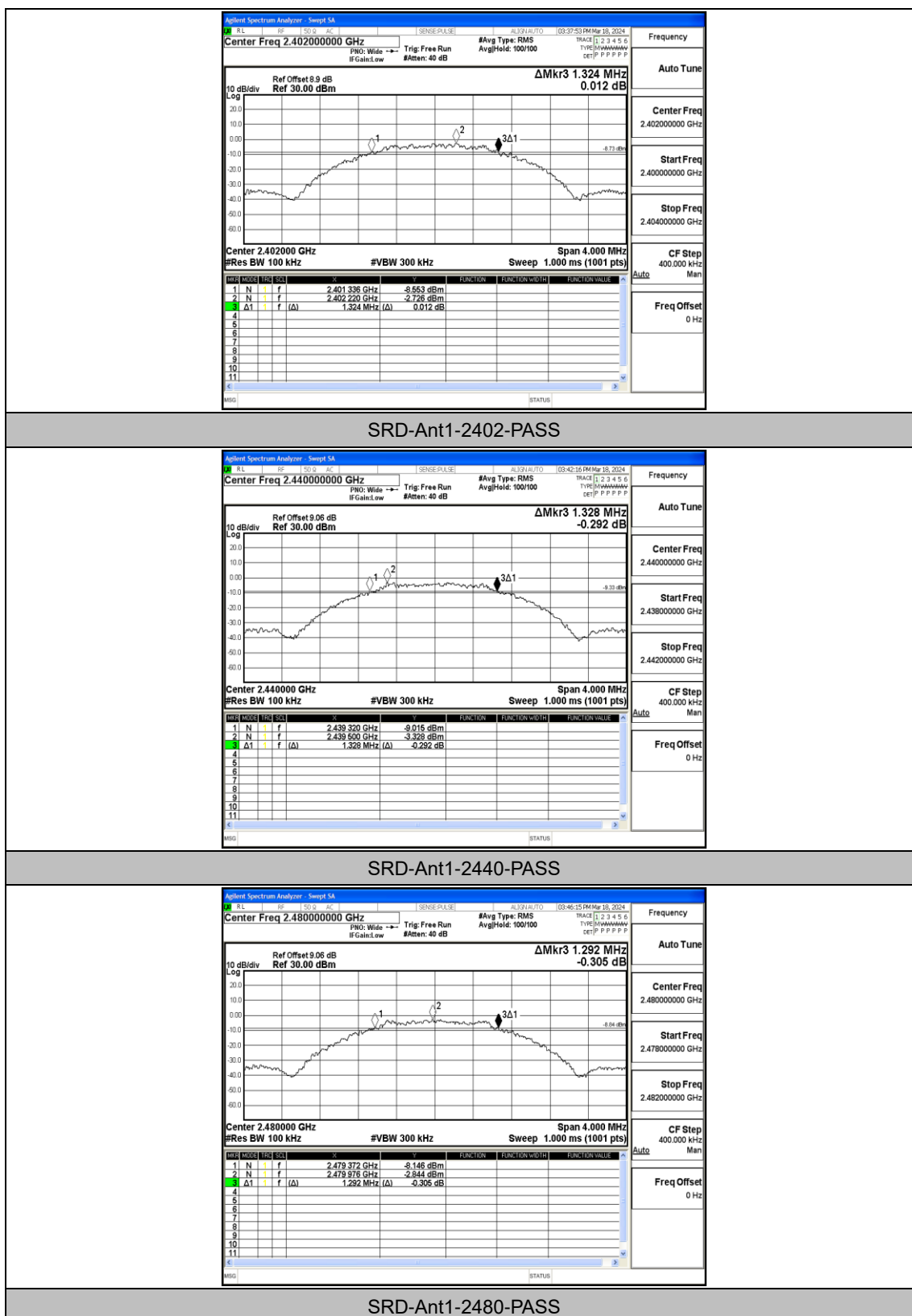
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.324	2401.336	2402.660	0.5	PASS
SRD	Ant1	2440	1.328	2439.320	2440.648	0.5	PASS
SRD	Ant1	2480	1.292	2479.372	2480.664	0.5	PASS

Test Graphs

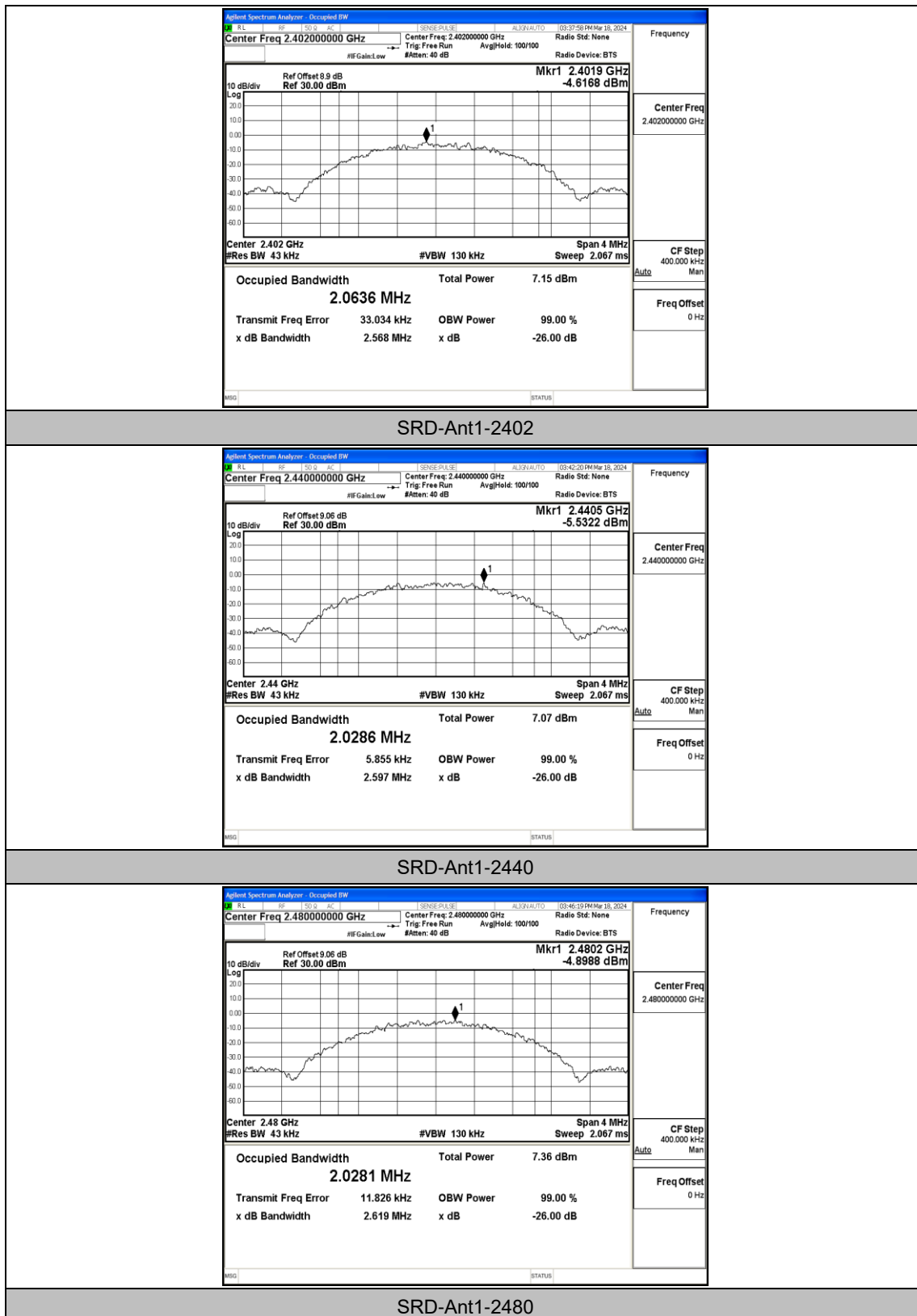


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0636	2401.0012	2403.0648	---	---
SRD	Ant1	2440	2.0286	2438.9916	2441.0202	---	---
SRD	Ant1	2480	2.0281	2478.9978	2481.0259	---	---

Test Graphs

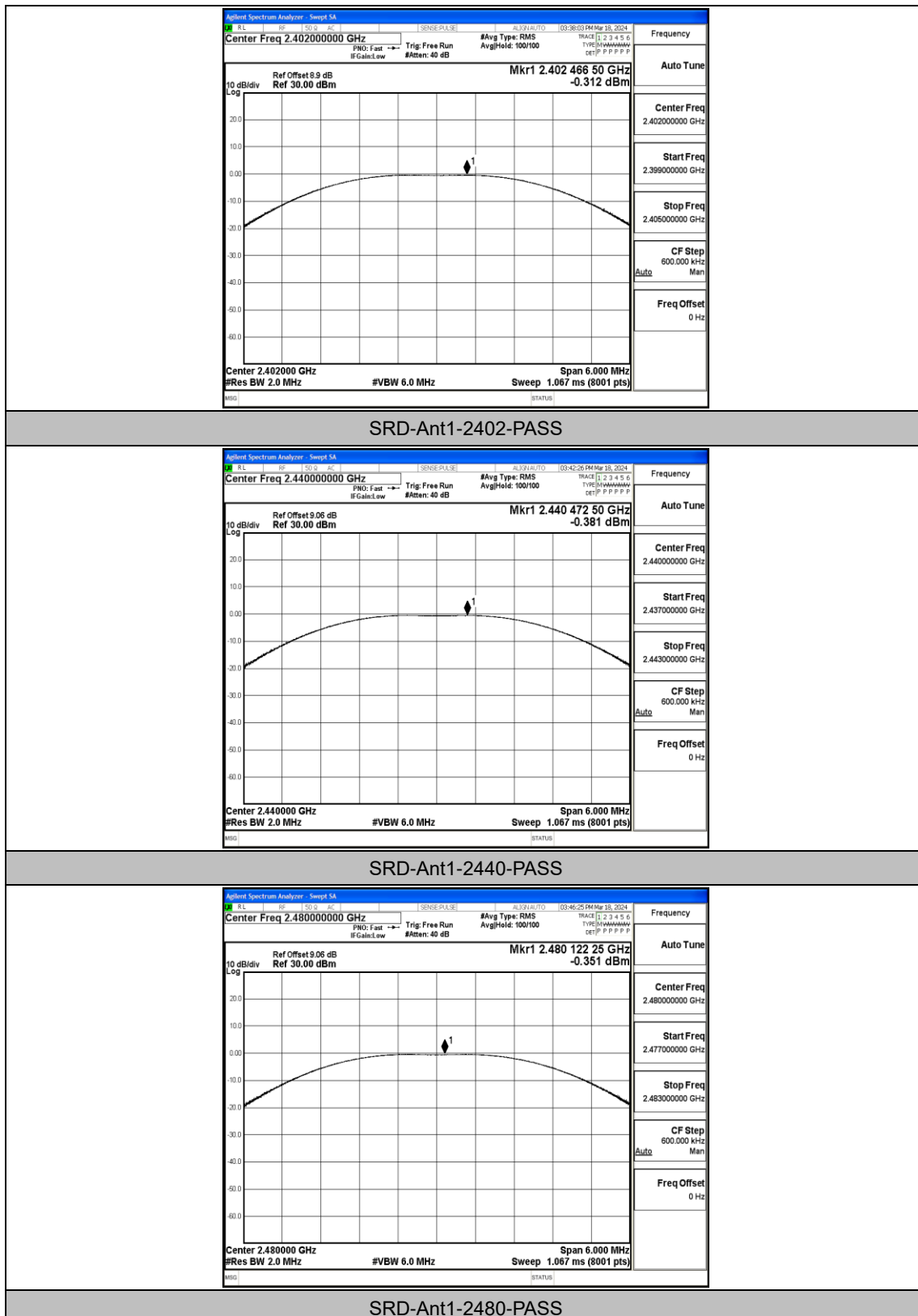


Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2402	-0.31	≤30	PASS
SRD	Ant1	2440	-0.38	≤30	PASS
SRD	Ant1	2480	-0.35	≤30	PASS

Test Graphs Peak

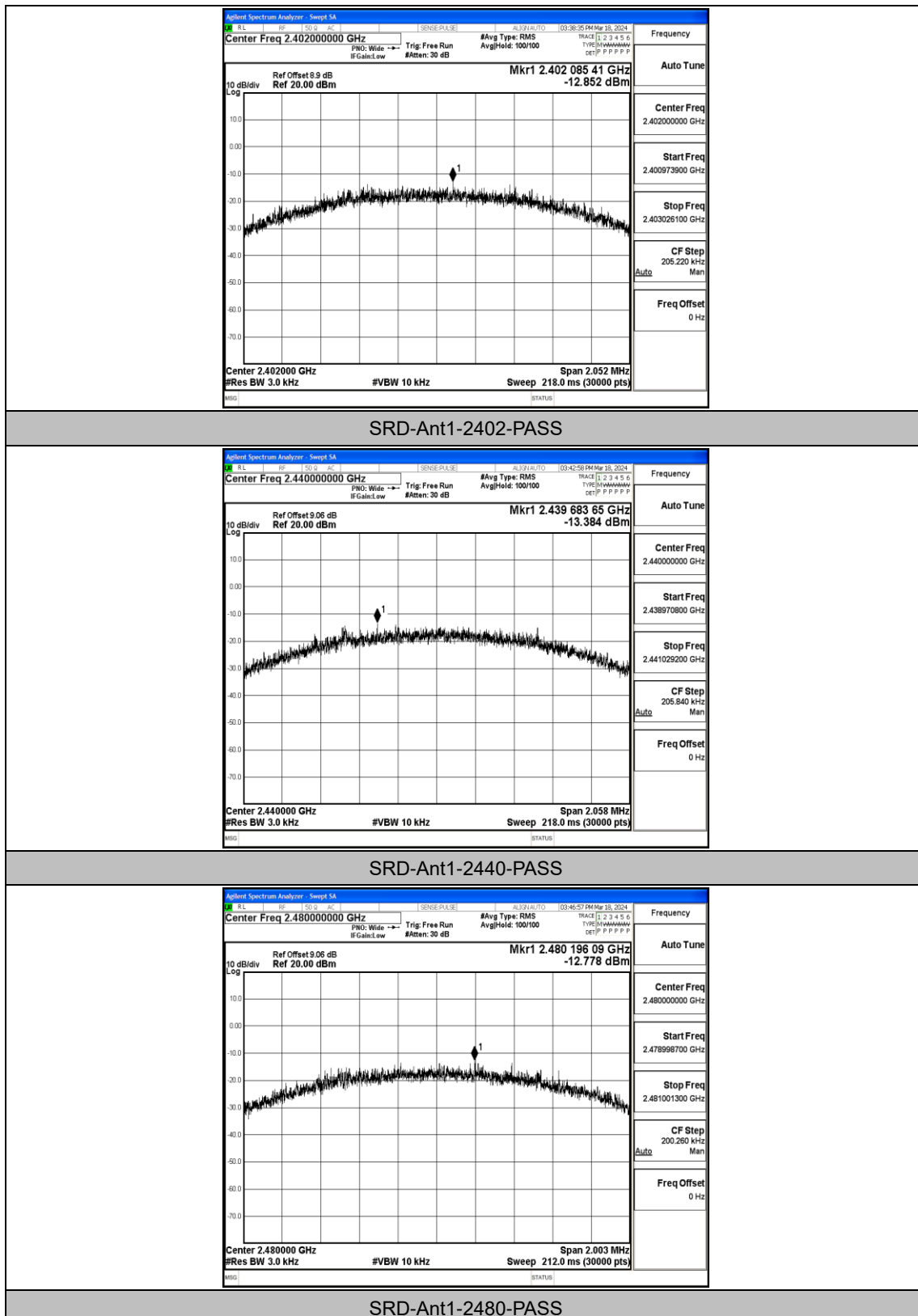


Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-12.85	≤8.00	PASS
SRD	Ant1	2440	-13.38	≤8.00	PASS
SRD	Ant1	2480	-12.78	≤8.00	PASS

Test Graphs

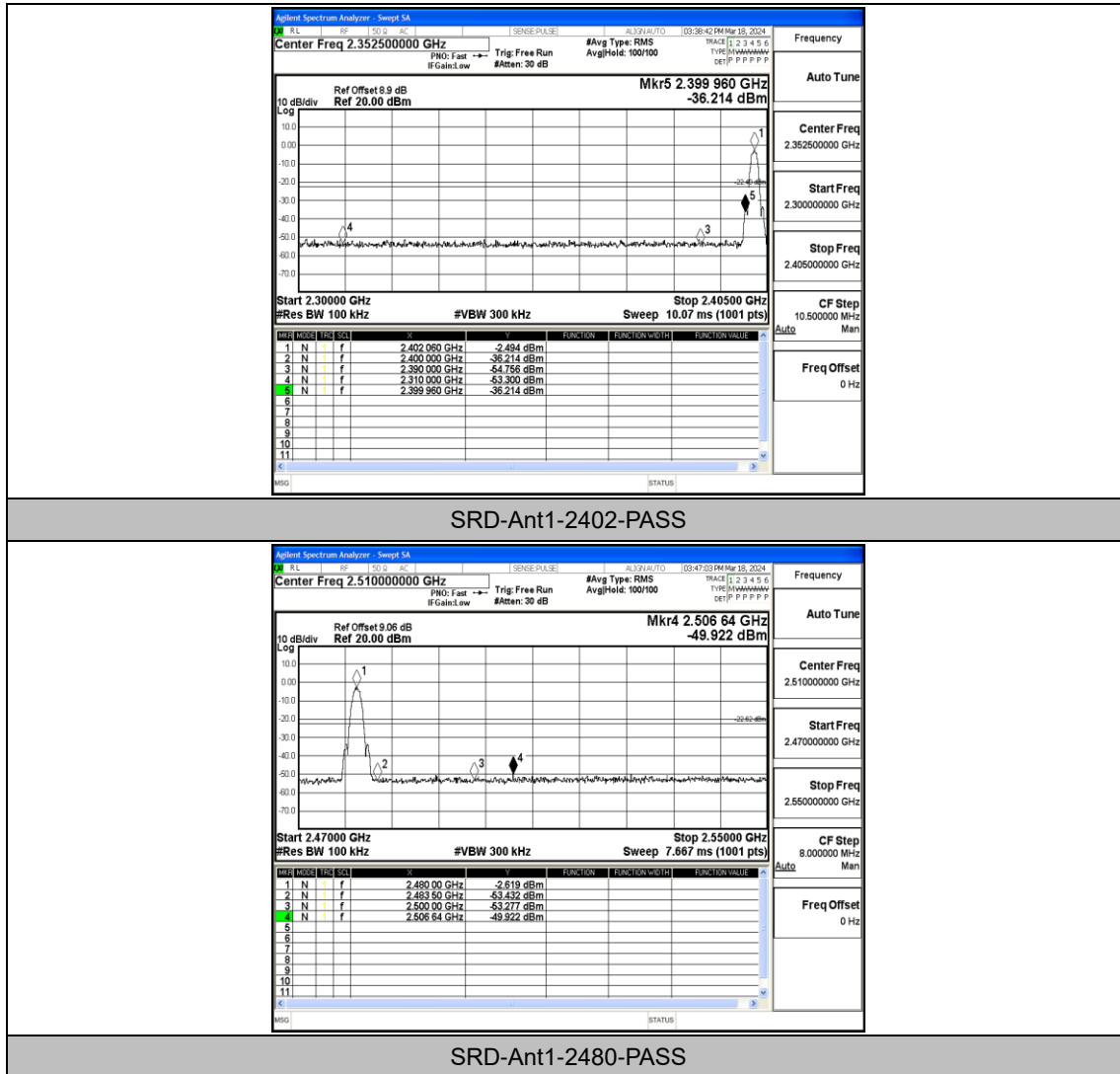


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-2.49	-36.21	≤-22.49	PASS
SRD	Ant1	High	2480	-2.62	-49.92	≤-22.62	PASS

Test Graphs

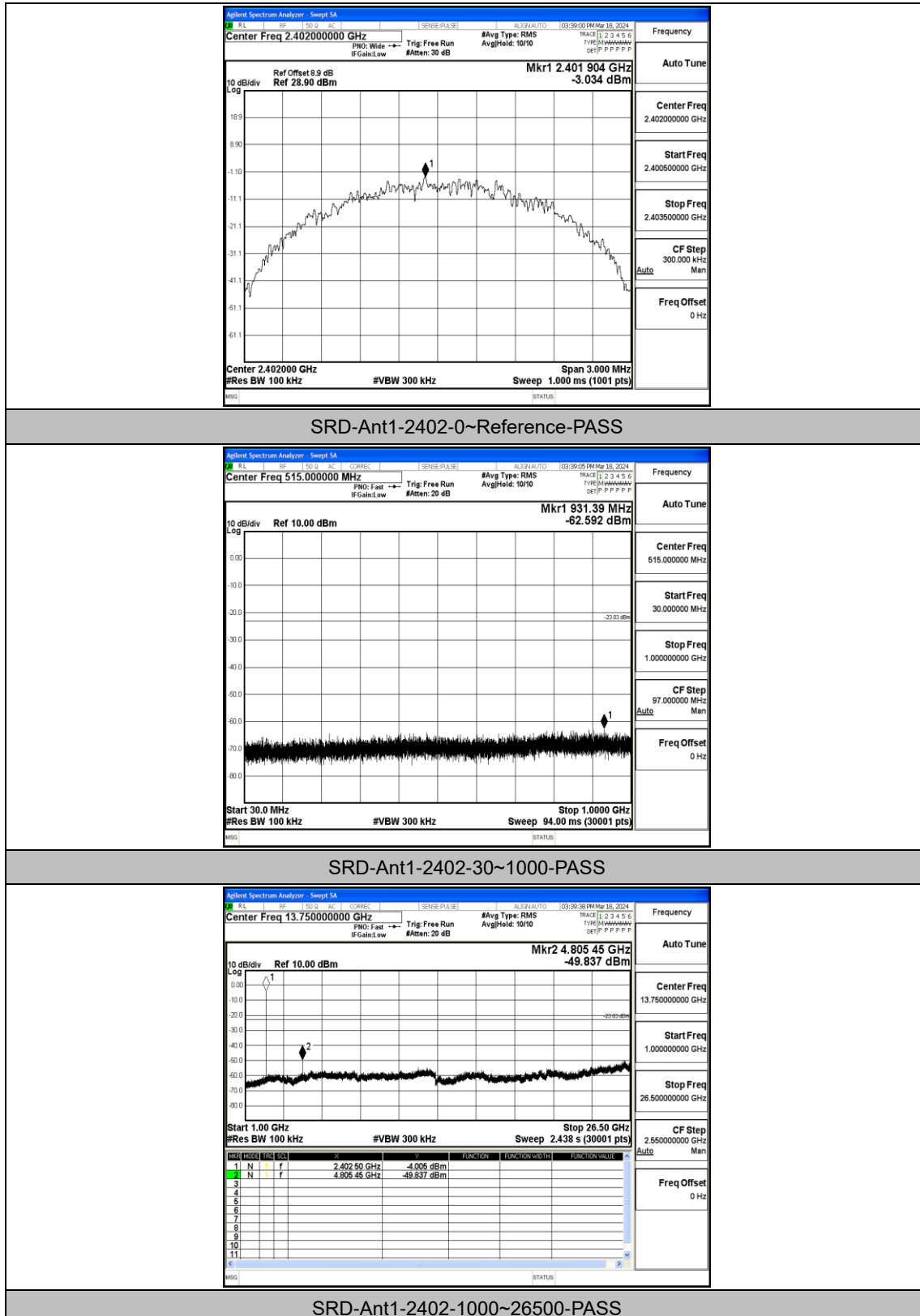


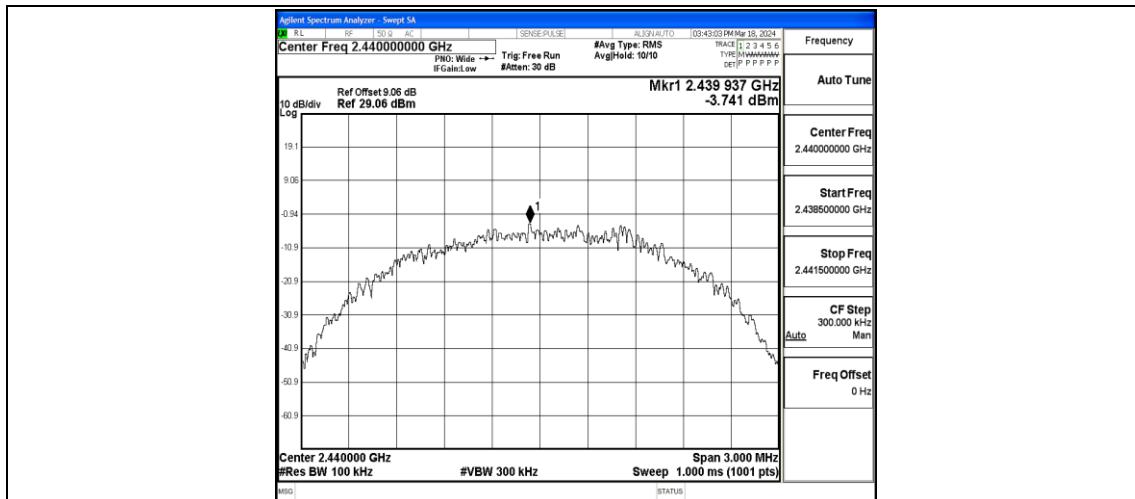
Appendix F: Conducted Spurious Emission

Test Result

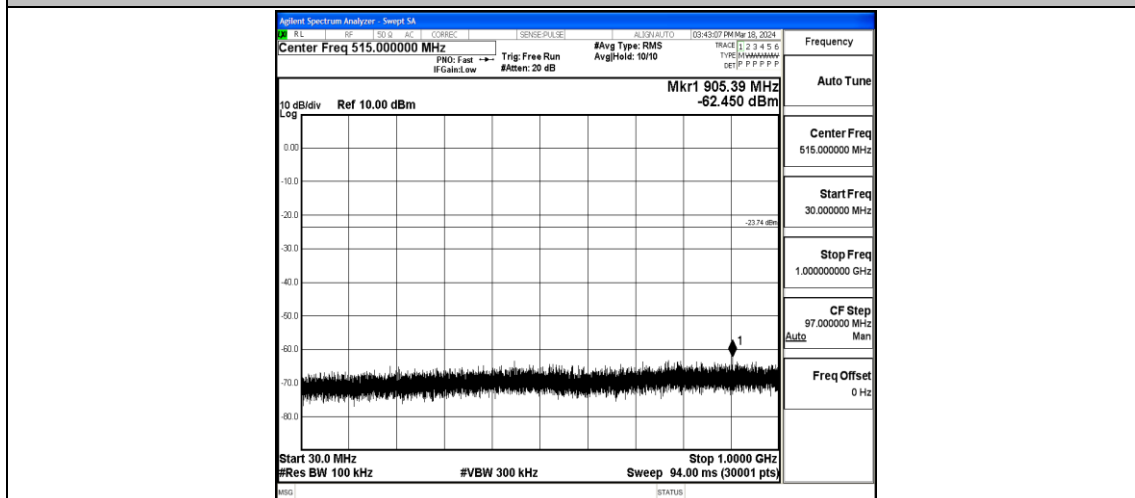
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	-3.03	-3.03	---	PASS
SRD	Ant1	2402	30~1000	-3.03	-62.59	≤-23.03	PASS
SRD	Ant1	2402	1000~26500	-3.03	-49.84	≤-23.03	PASS
SRD	Ant1	2440	0~Reference	-3.74	-3.74	---	PASS
SRD	Ant1	2440	30~1000	-3.74	-62.45	≤-23.74	PASS
SRD	Ant1	2440	1000~26500	-3.74	-49.78	≤-23.74	PASS
SRD	Ant1	2480	0~Reference	-3.52	-3.52	---	PASS
SRD	Ant1	2480	30~1000	-3.52	-62.82	≤-23.52	PASS
SRD	Ant1	2480	1000~26500	-3.52	-50.26	≤-23.52	PASS

Test Graphs

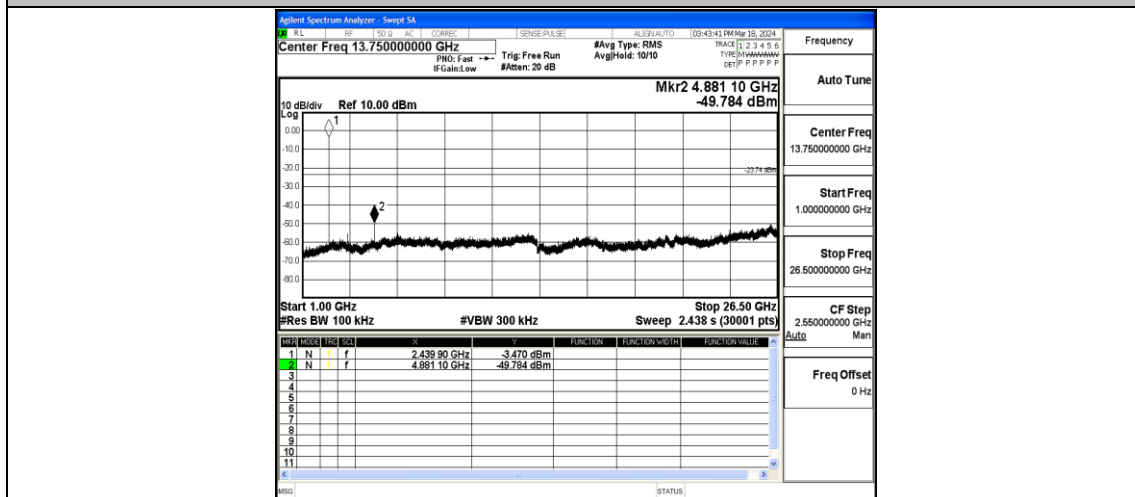




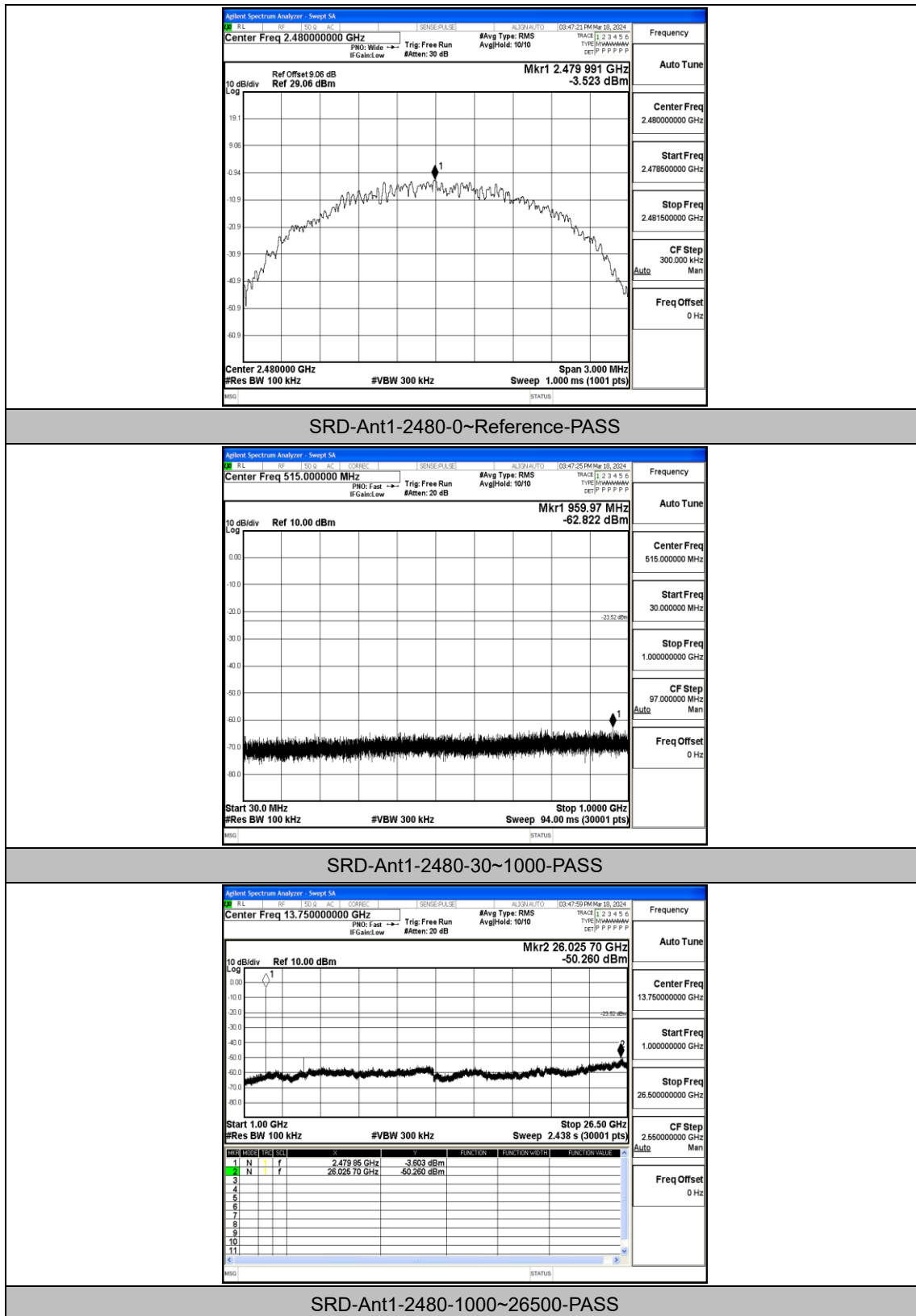
SRD-Ant1-2440-0~Reference-PASS



SRD-Ant1-2440-30~1000-PASS



SRD-Ant1-2440-1000~26500-PASS



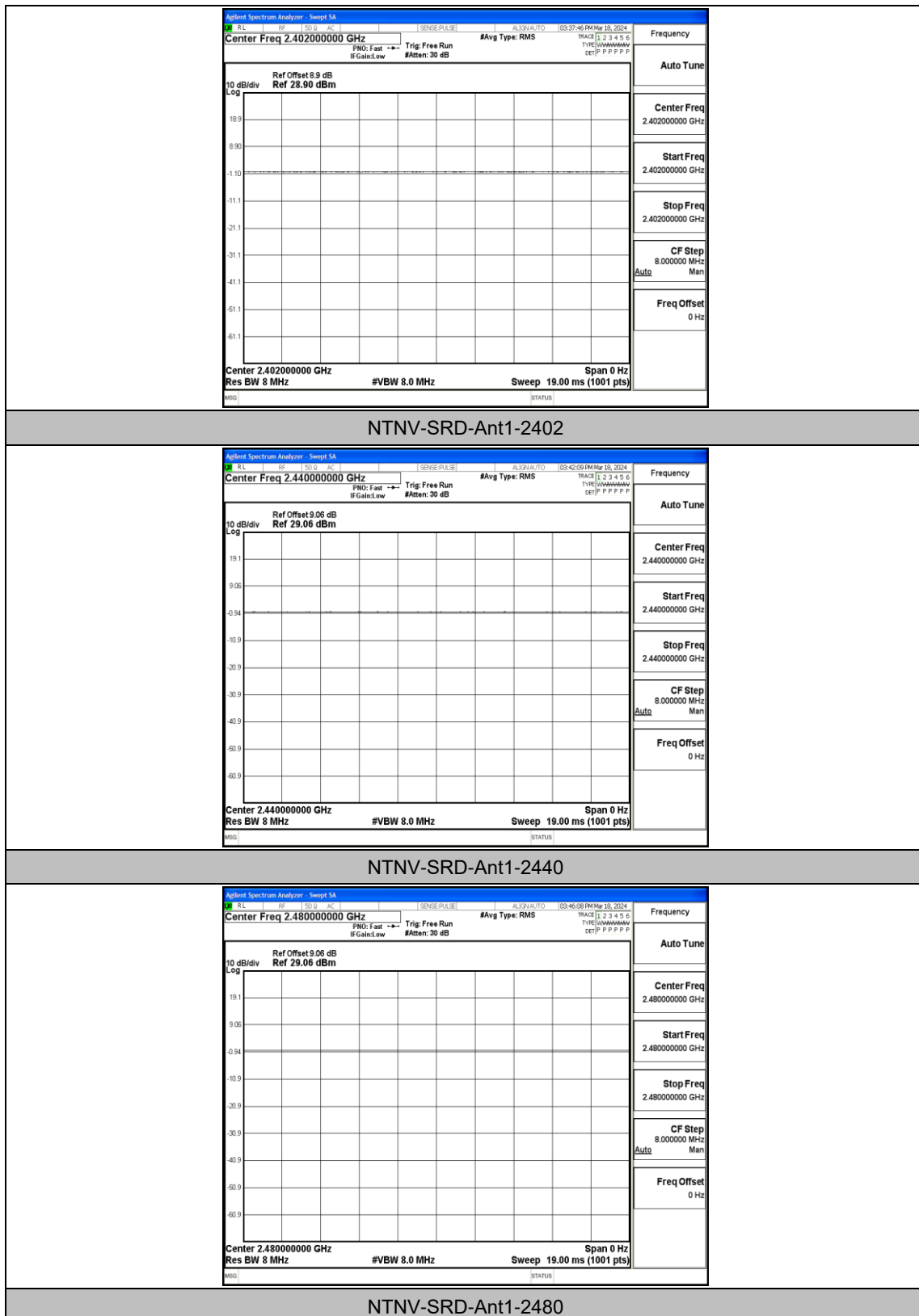
SRD-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD	Ant1	2402	19.00	19.00	100.00	0
SRD	Ant1	2440	19.00	19.00	100.00	0
SRD	Ant1	2480	19.00	19.00	100.00	0

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
SRD	Ant1	Low	2402	Peak	2390.000	-42.9	≤-21.20	52.30	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-41.68	≤-21.20	53.52	≤74	PASS
SRD	Ant1	Low	2402	Peak	2324.045	-40.19	≤-21.20	55.01	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-50.62	≤-41.20	44.58	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-50.46	≤-41.20	44.74	≤54	PASS
SRD	Ant1	Low	2402	AV	2319.950	-49.73	≤-41.20	45.47	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-44.76	≤-21.20	50.44	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-43.74	≤-21.20	51.46	≤74	PASS
SRD	Ant1	High	2480	Peak	2497.440	-40.83	≤-21.20	54.37	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-49.66	≤-41.20	45.54	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-49.7	≤-41.20	45.50	≤54	PASS
SRD	Ant1	High	2480	AV	2486.160	-49.14	≤-41.20	46.06	≤54	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

