

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: Q0 Max

FCC ID: 2BGKB-Q0MAX

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
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	1.092	2401.468	2402.560	0.5	PASS
SRD	Ant1	2440	1.128	2439.468	2440.596	0.5	PASS
SRD	Ant1	2480	0.952	2479.472	2480.424	0.5	PASS

Test Graphs

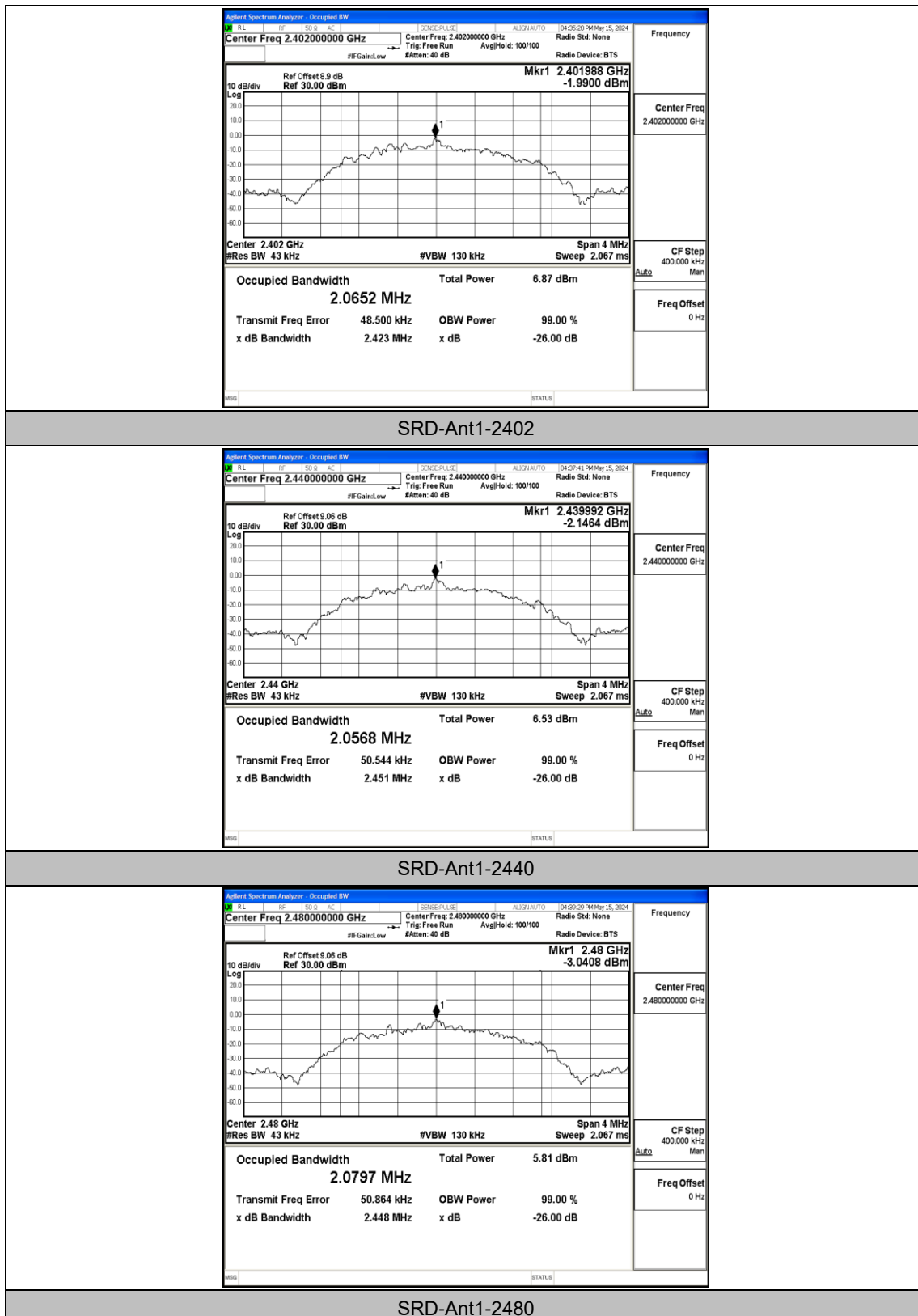


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0652	2401.0159	2403.0811	---	---
SRD	Ant1	2440	2.0568	2439.0221	2441.0789	---	---
SRD	Ant1	2480	2.0797	2479.0110	2481.0907	---	---

Test Graphs

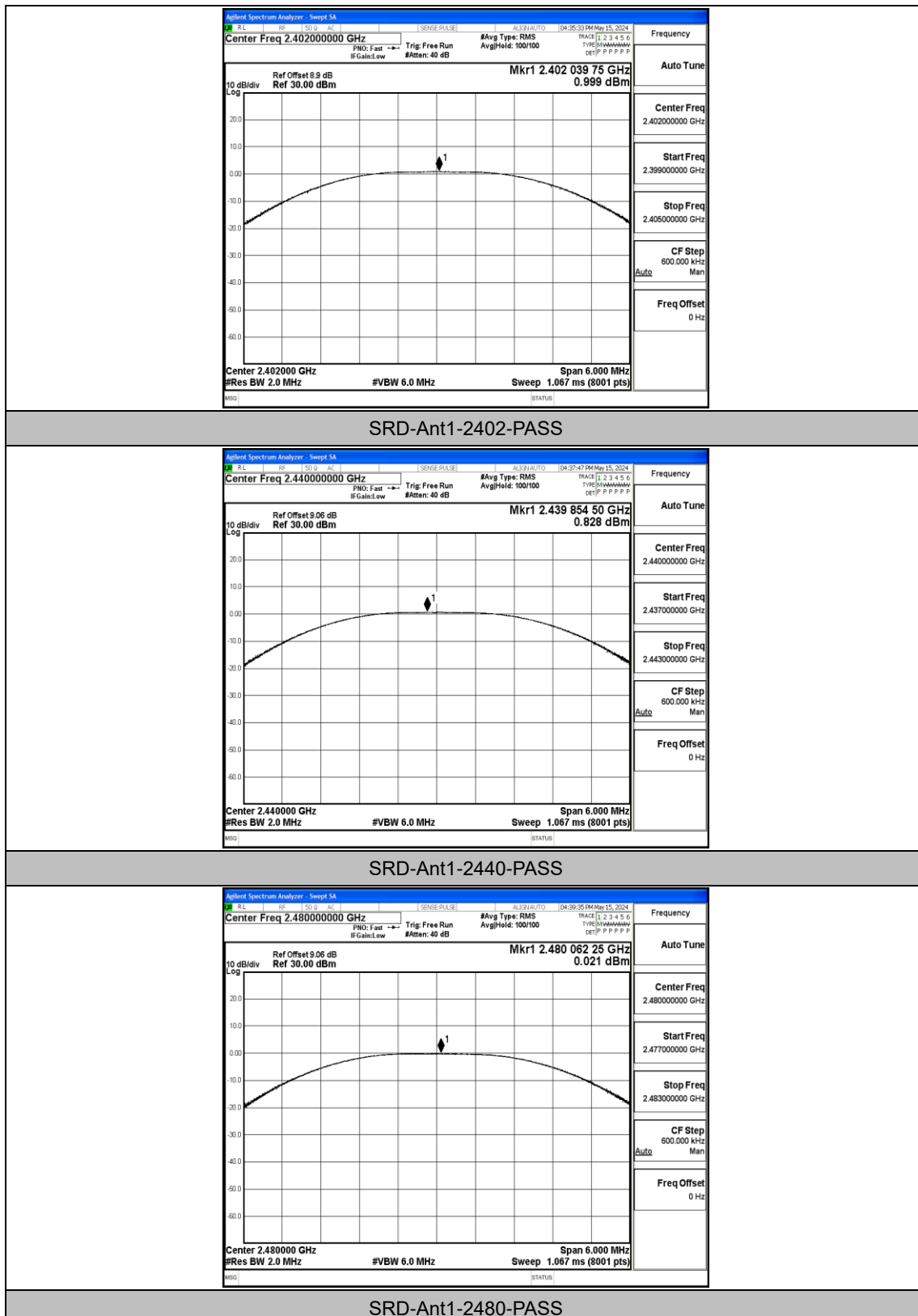


Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2402	1.00	≤30	PASS
SRD	Ant1	2440	0.83	≤30	PASS
SRD	Ant1	2480	0.02	≤30	PASS

Test Graphs Peak

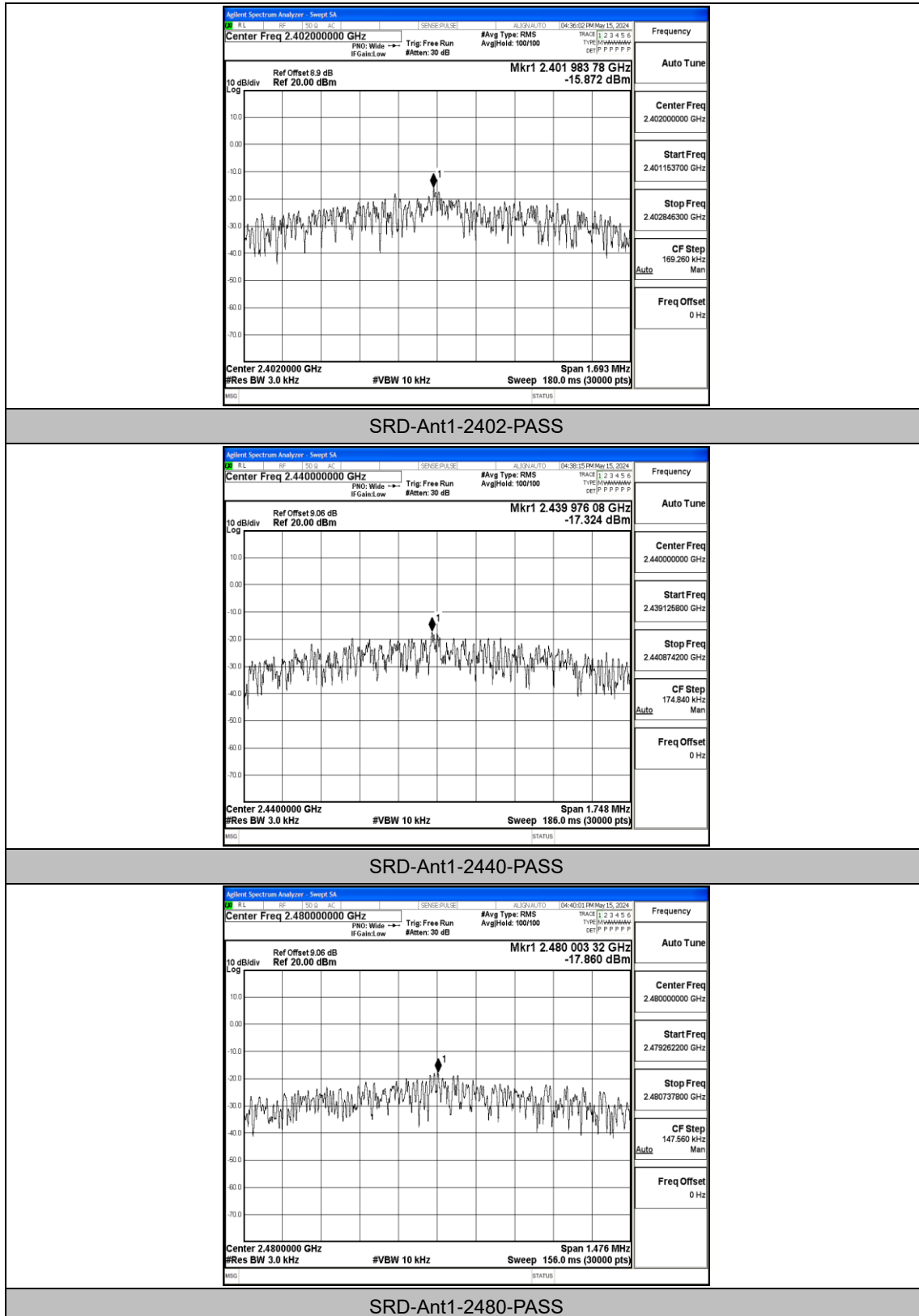


Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-15.87	≤8.00	PASS
SRD	Ant1	2440	-17.32	≤8.00	PASS
SRD	Ant1	2480	-17.86	≤8.00	PASS

Test Graphs

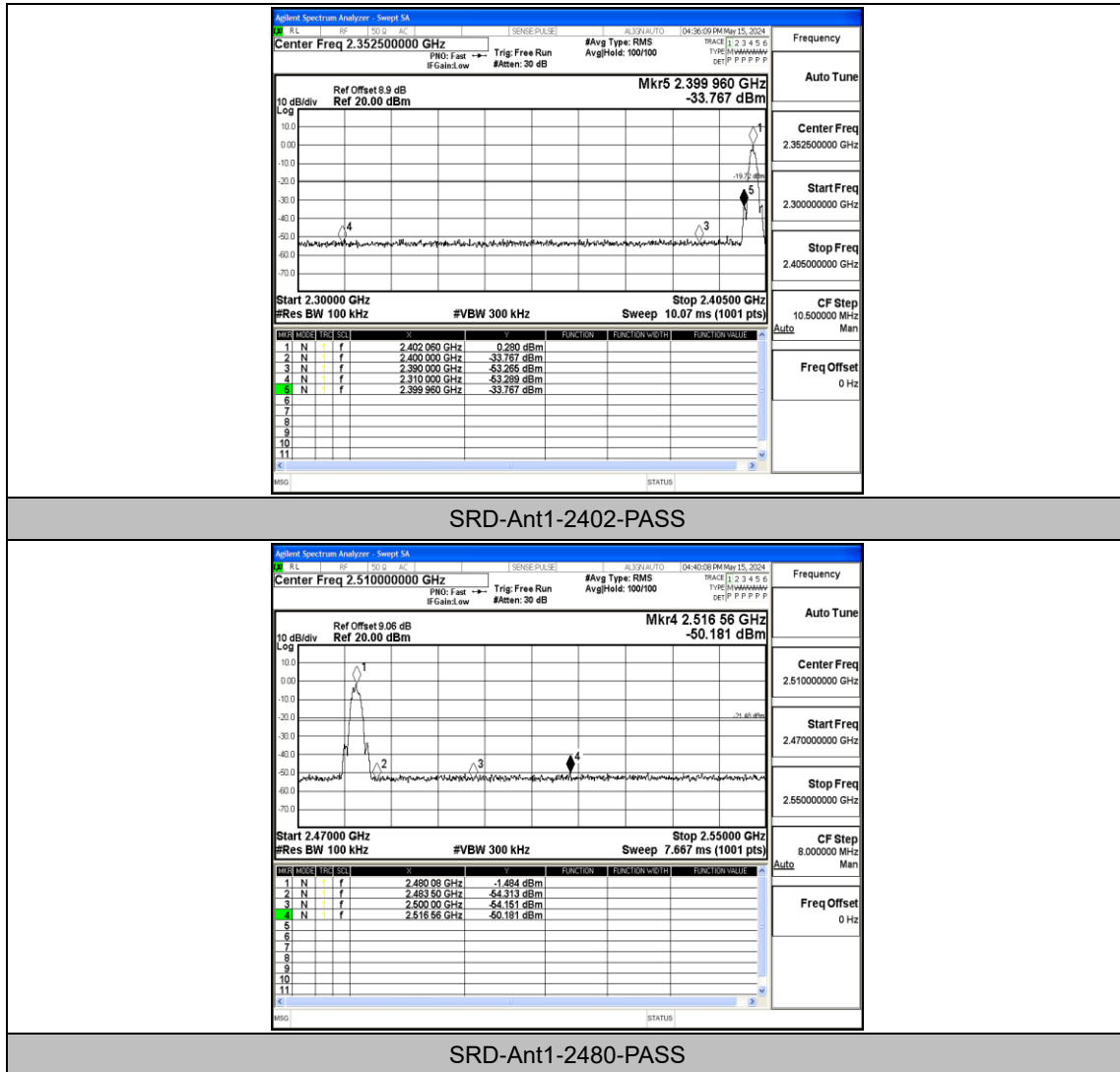


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	0.28	-33.77	≤ -19.72	PASS
SRD	Ant1	High	2480	-1.48	-50.18	≤ -21.48	PASS

Test Graphs

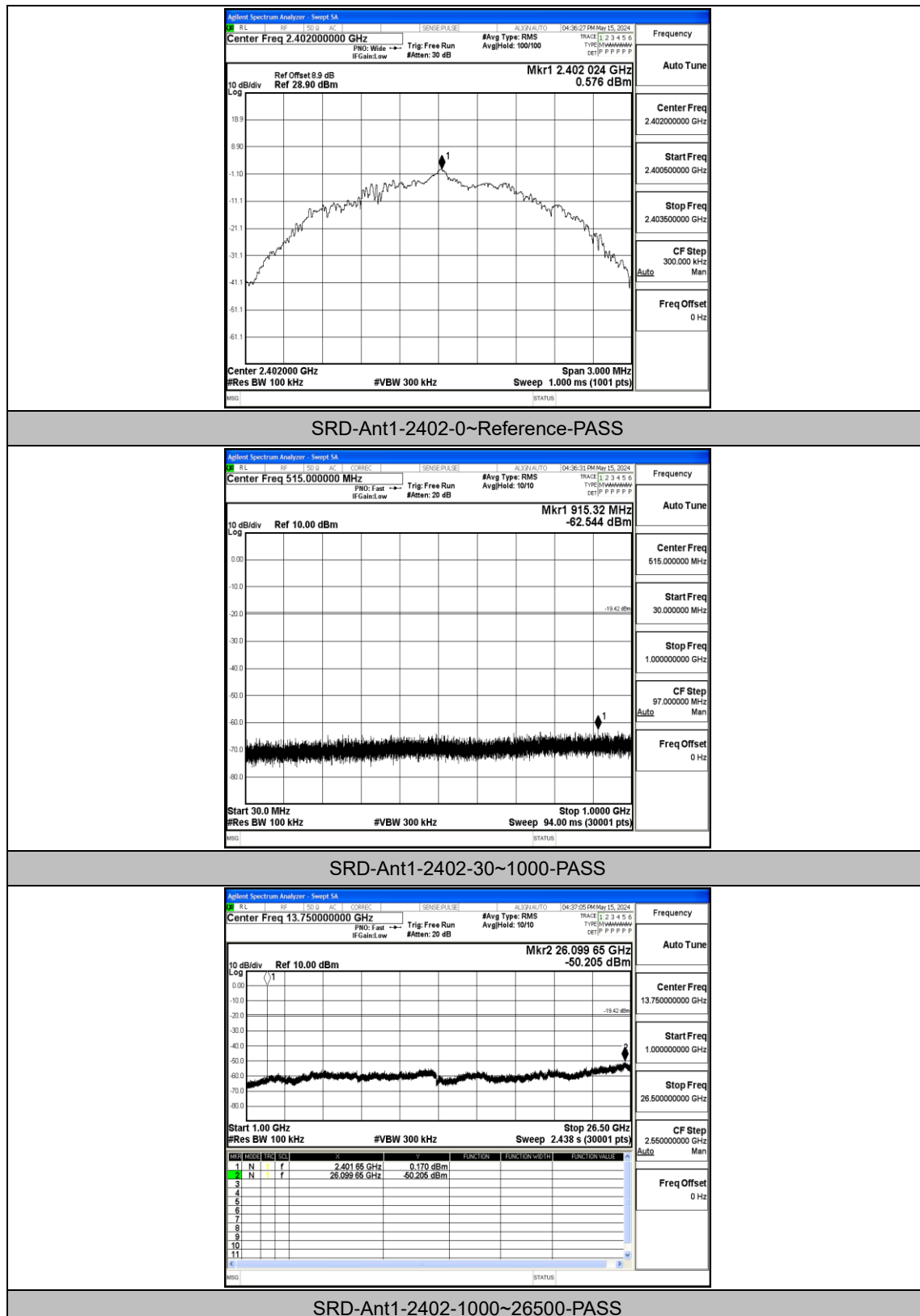


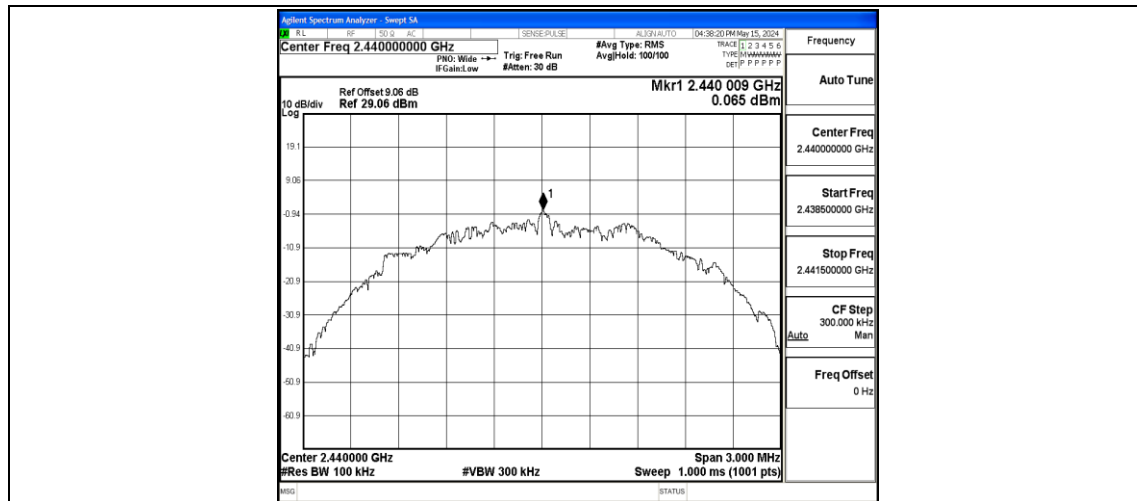
Appendix F: Conducted Spurious Emission

Test Result

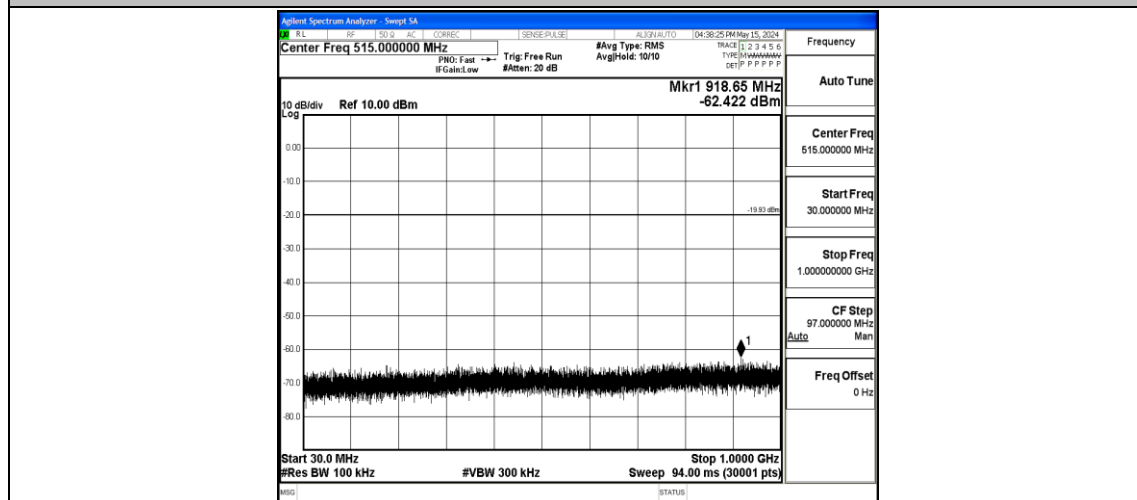
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	0.58	0.58	---	PASS
SRD	Ant1	2402	30~1000	0.58	-62.54	≤-19.42	PASS
SRD	Ant1	2402	1000~26500	0.58	-50.21	≤-19.42	PASS
SRD	Ant1	2440	0~Reference	0.07	0.07	---	PASS
SRD	Ant1	2440	30~1000	0.07	-62.42	≤-19.93	PASS
SRD	Ant1	2440	1000~26500	0.07	-49.44	≤-19.93	PASS
SRD	Ant1	2480	0~Reference	-0.47	-0.47	---	PASS
SRD	Ant1	2480	30~1000	-0.47	-63.07	≤-20.47	PASS
SRD	Ant1	2480	1000~26500	-0.47	-50.75	≤-20.47	PASS

Test Graphs

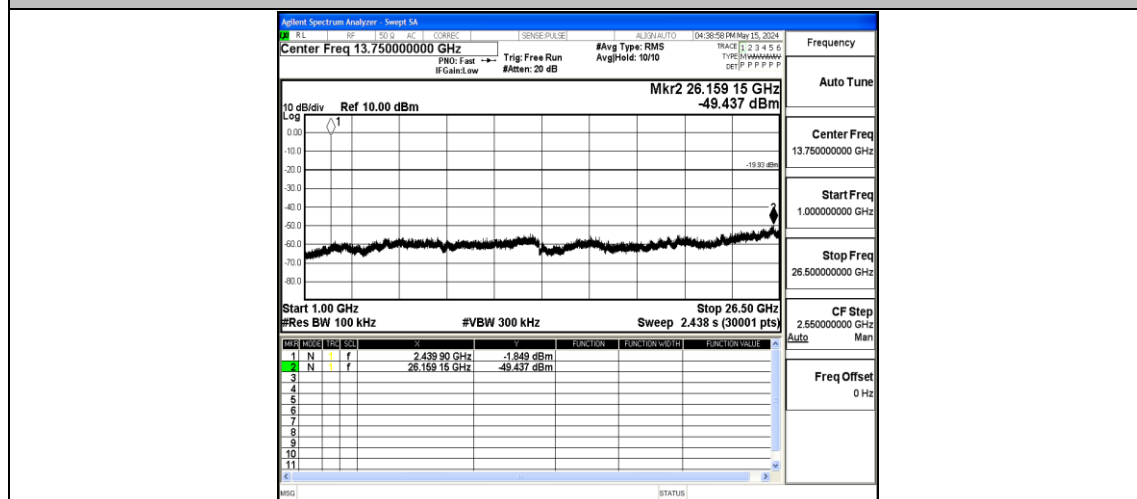




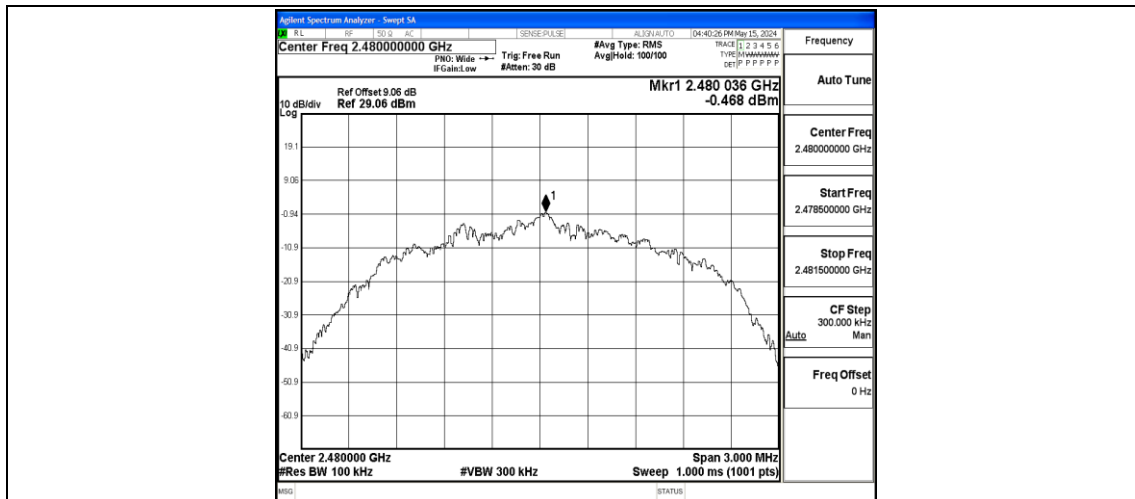
SRD-Ant1-2440-0~Reference-PASS



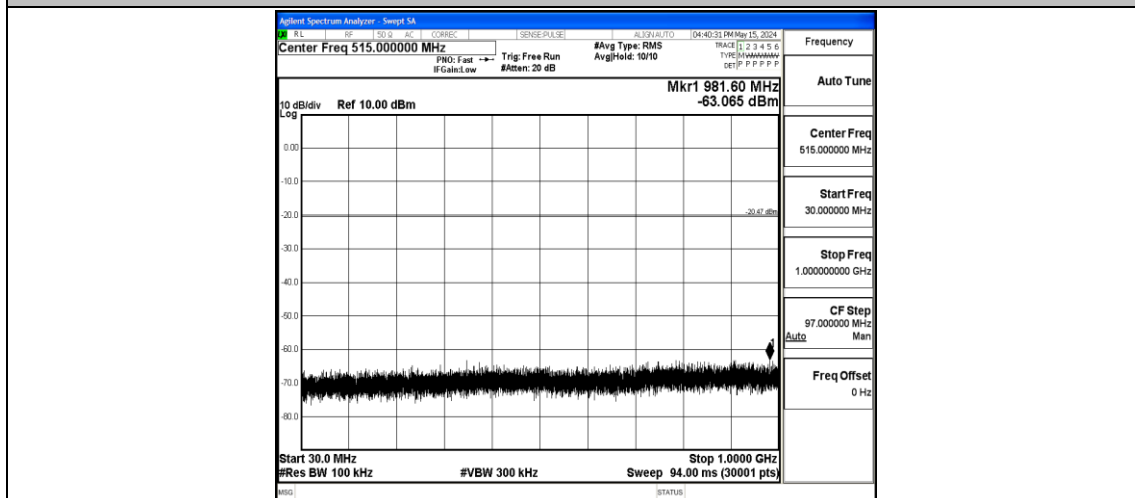
SRD-Ant1-2440-30~1000-PASS



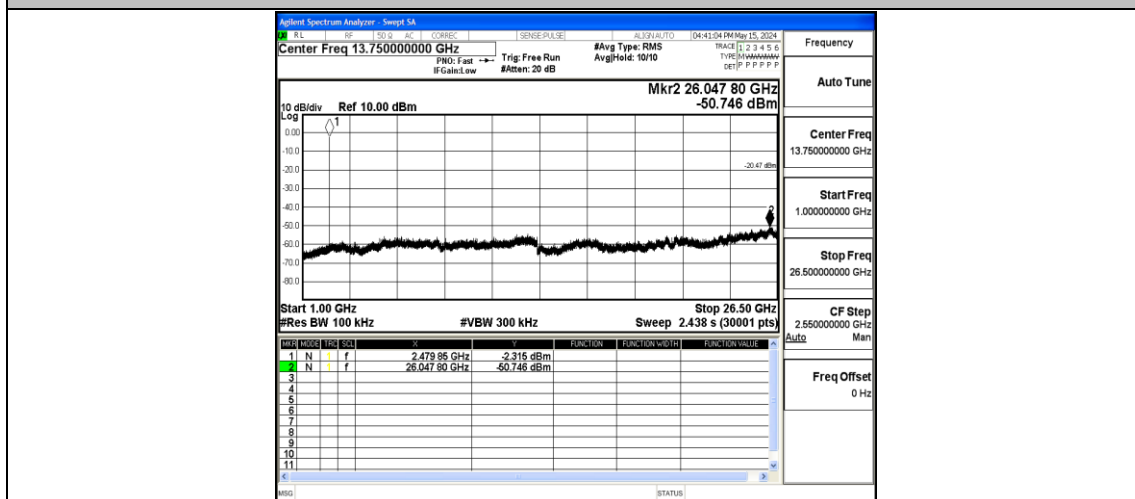
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



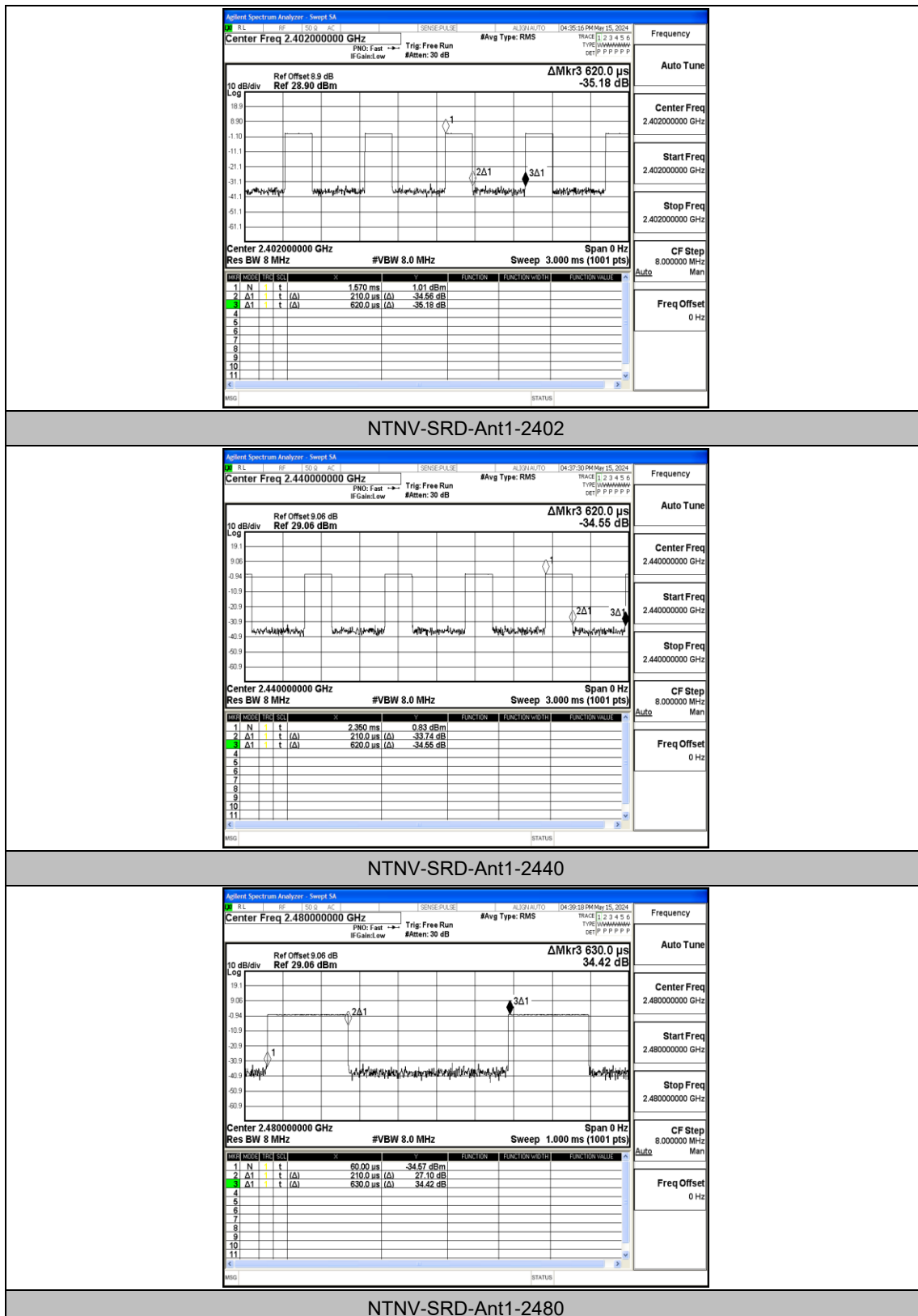
SRD-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD	Ant1	2402	0.21	0.62	33.87	4.70
SRD	Ant1	2440	0.21	0.62	33.87	4.70
SRD	Ant1	2480	0.21	0.63	33.33	4.77

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	-50.02	≤-21.20	45.18	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-52.62	≤-21.20	42.58	≤74	PASS
SRD	Ant1	Low	2402	Peak	2364.785	-47.98	≤-21.20	47.22	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-55.12	≤-41.20	40.08	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-56.07	≤-41.20	39.13	≤54	PASS
SRD	Ant1	Low	2402	AV	2369.930	-54.36	≤-41.20	40.84	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-45.86	≤-21.20	49.34	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-51.07	≤-21.20	44.13	≤74	PASS
SRD	Ant1	High	2480	Peak	2483.520	-45.86	≤-21.20	49.34	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-52.14	≤-41.20	43.06	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-54.37	≤-41.20	40.83	≤54	PASS
SRD	Ant1	High	2480	AV	2483.520	-52.14	≤-41.20	43.06	≤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

