

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Gaming mouse

Trade Mark: N/A

Test Model: Nyf Ergolight 4K

FCC ID: 2BGQQ-NYFERGOLIGHT

Environmental Conditions

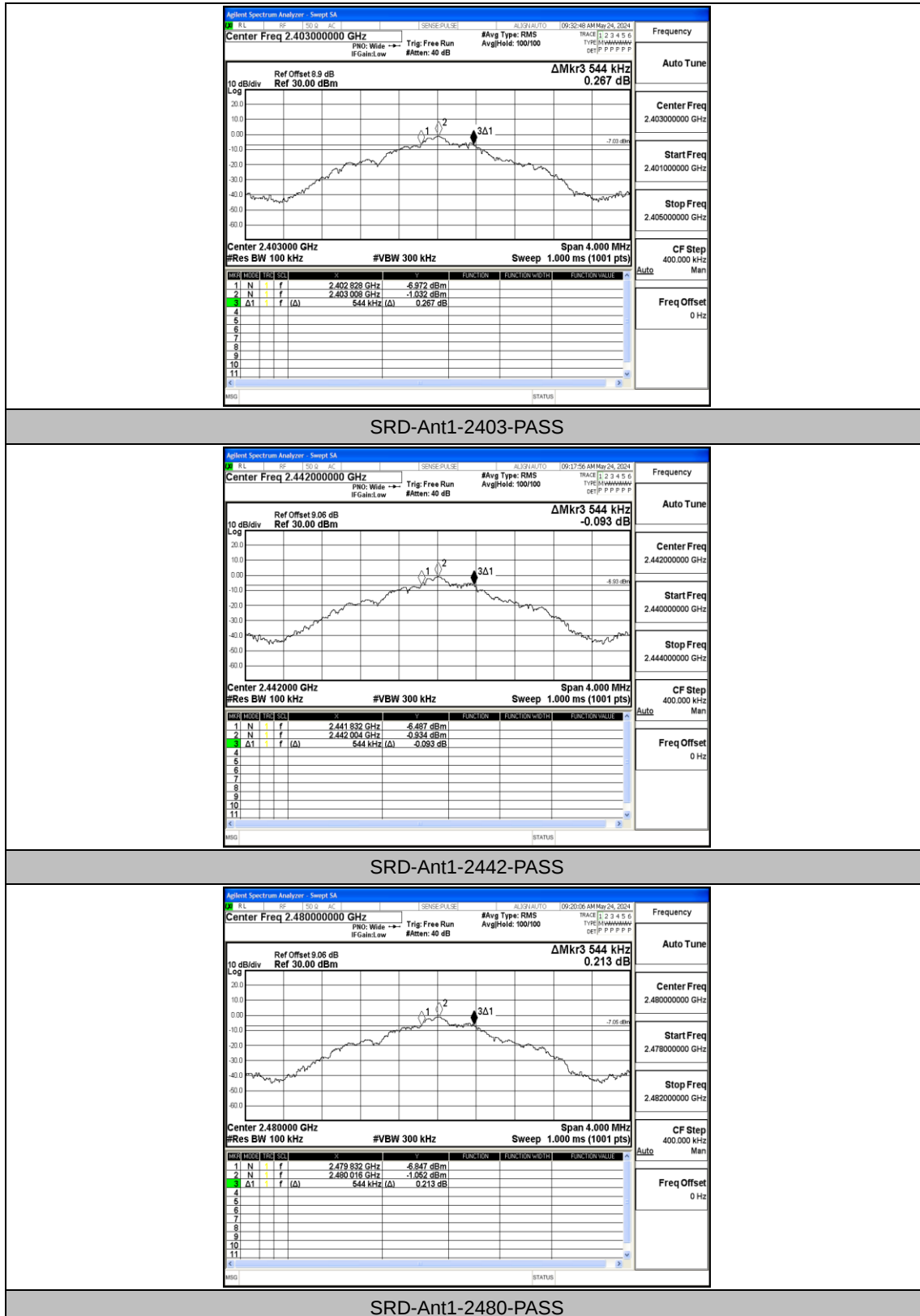
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2403	0.544	2402.828	2403.372	0.5	PASS
SRD	Ant1	2442	0.544	2441.832	2442.376	0.5	PASS
SRD	Ant1	2480	0.544	2479.832	2480.376	0.5	PASS

Test Graphs

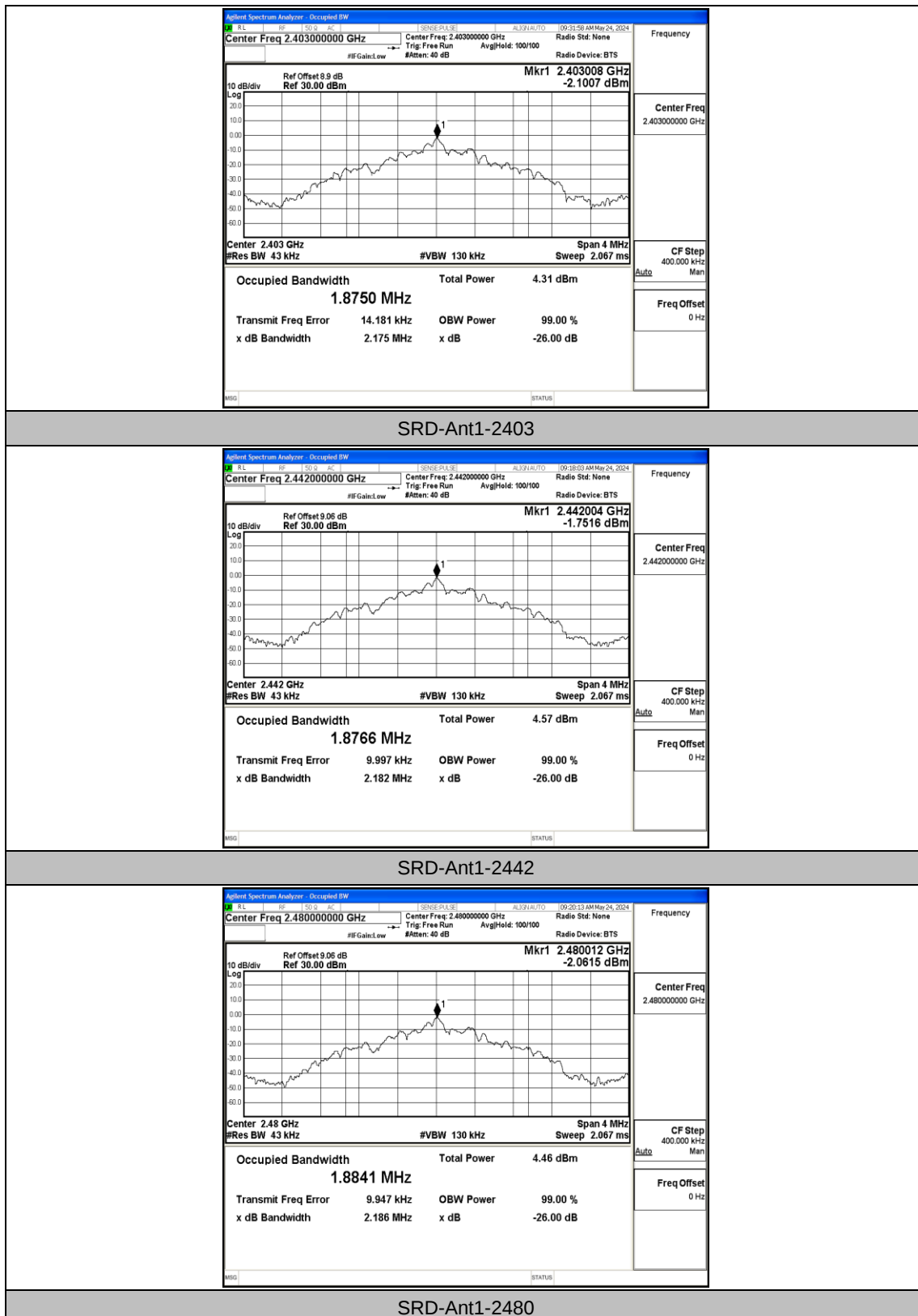


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2403	1.8750	2402.0767	2403.9517	---	---
SRD	Ant1	2442	1.8766	2441.0717	2442.9483	---	---
SRD	Ant1	2480	1.8841	2479.0679	2480.9520	---	---

Test Graphs

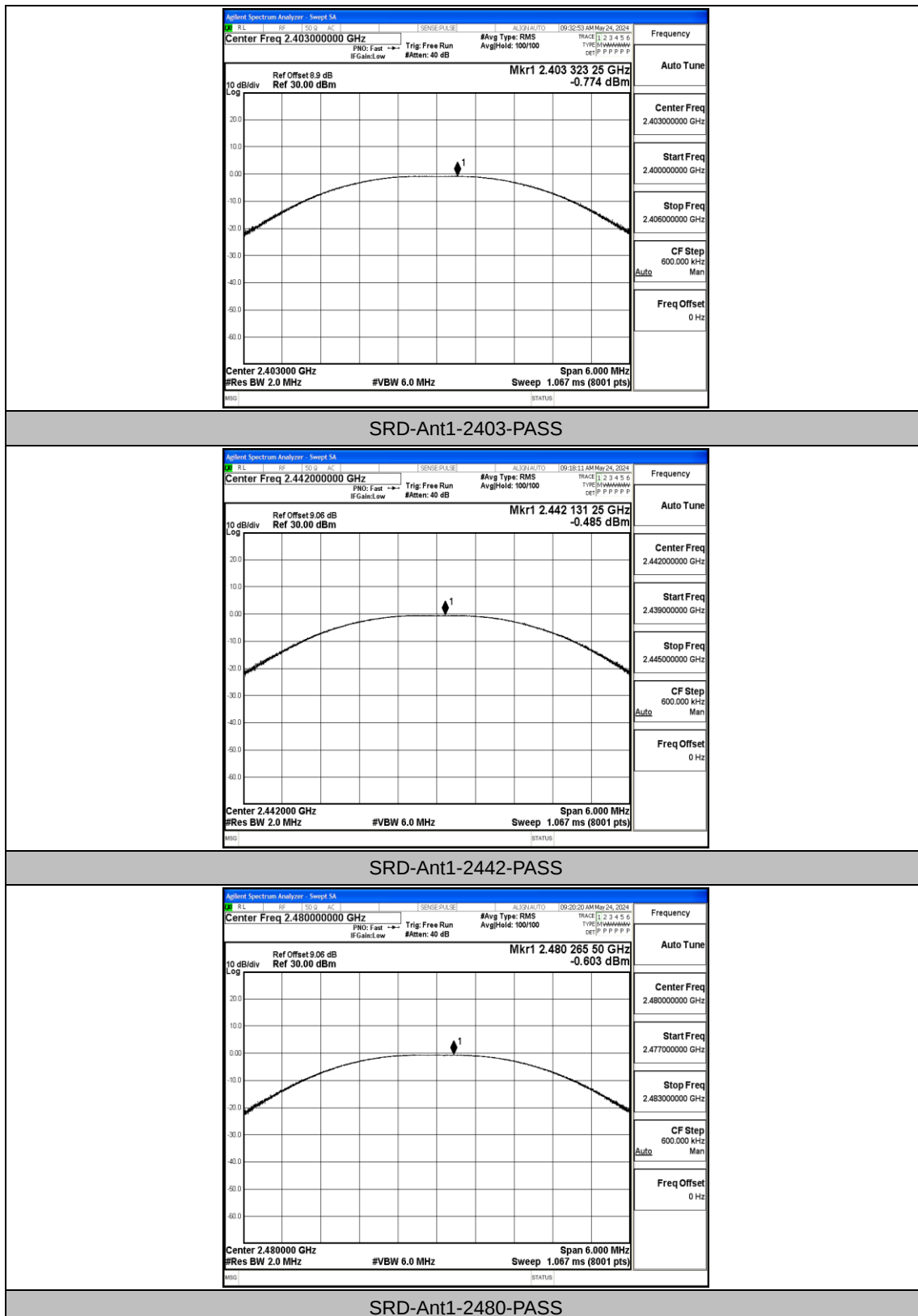


Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2403	-0.77	≤30	PASS
SRD	Ant1	2442	-0.49	≤30	PASS
SRD	Ant1	2480	-0.60	≤30	PASS

Test Graphs Peak

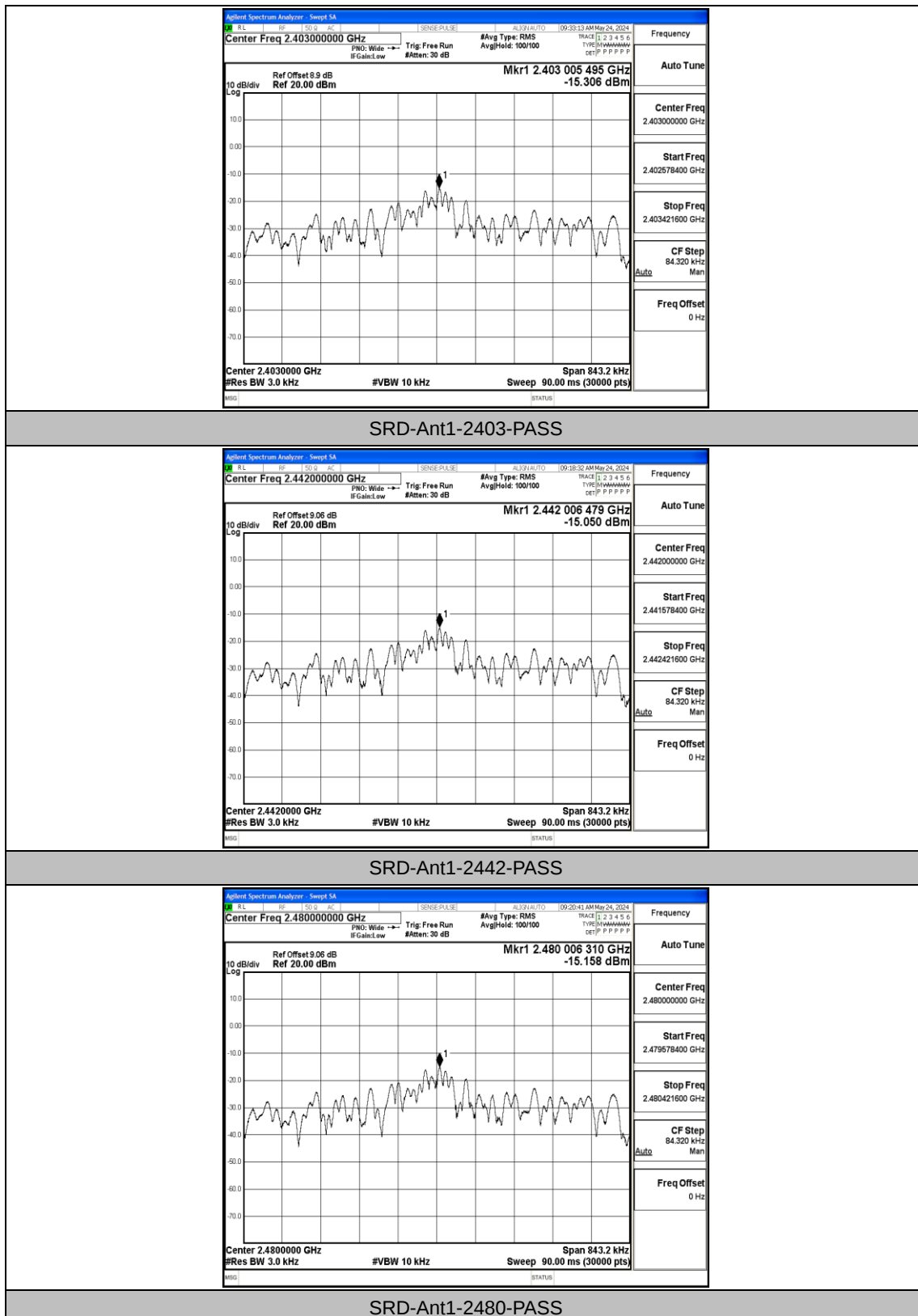


Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2403	-15.31	≤8.00	PASS
SRD	Ant1	2442	-15.05	≤8.00	PASS
SRD	Ant1	2480	-15.16	≤8.00	PASS

Test Graphs

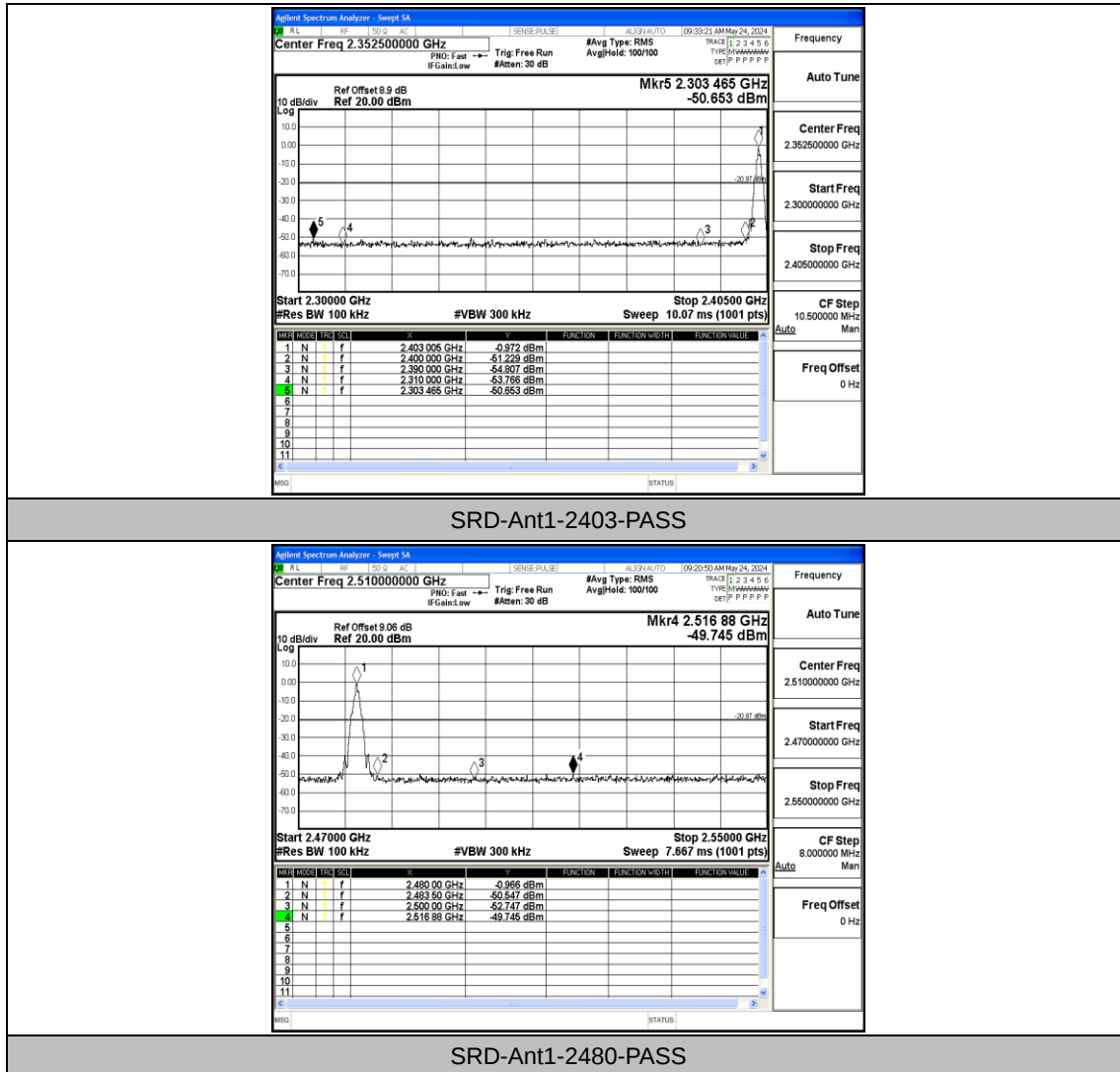


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2403	-0.97	-50.65	≤-20.97	PASS
SRD	Ant1	High	2480	-0.97	-49.75	≤-20.97	PASS

Test Graphs

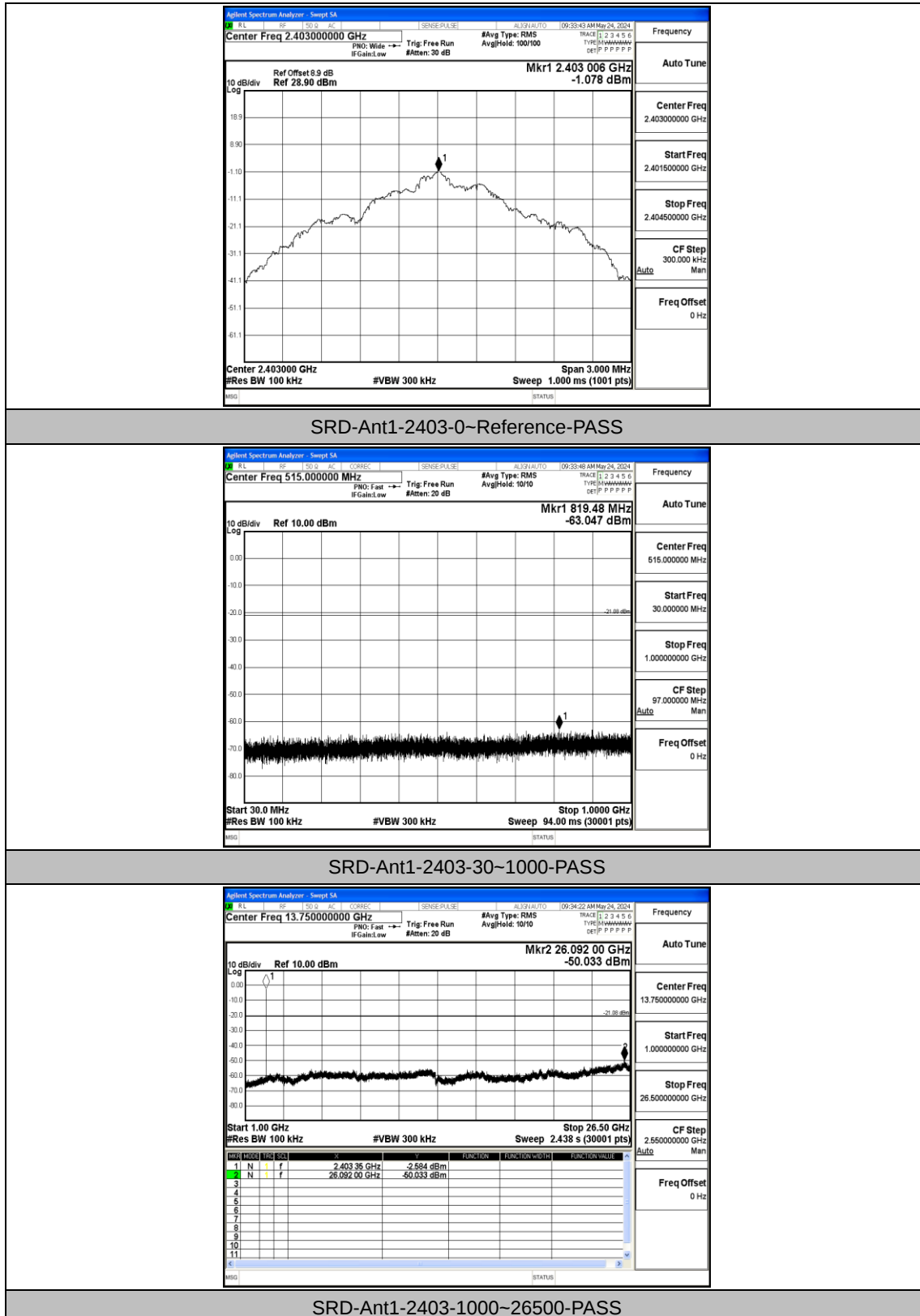


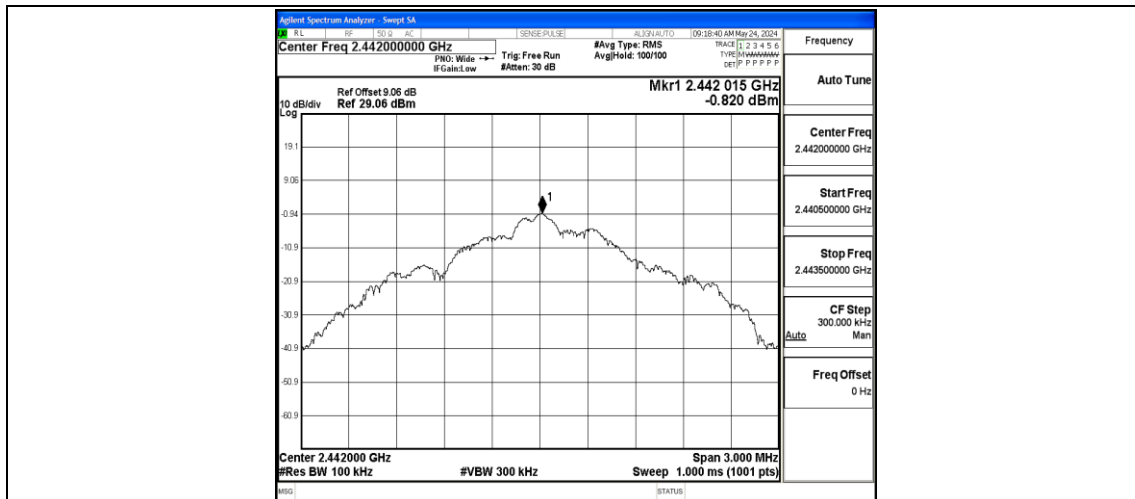
Appendix F: Conducted Spurious Emission

Test Result

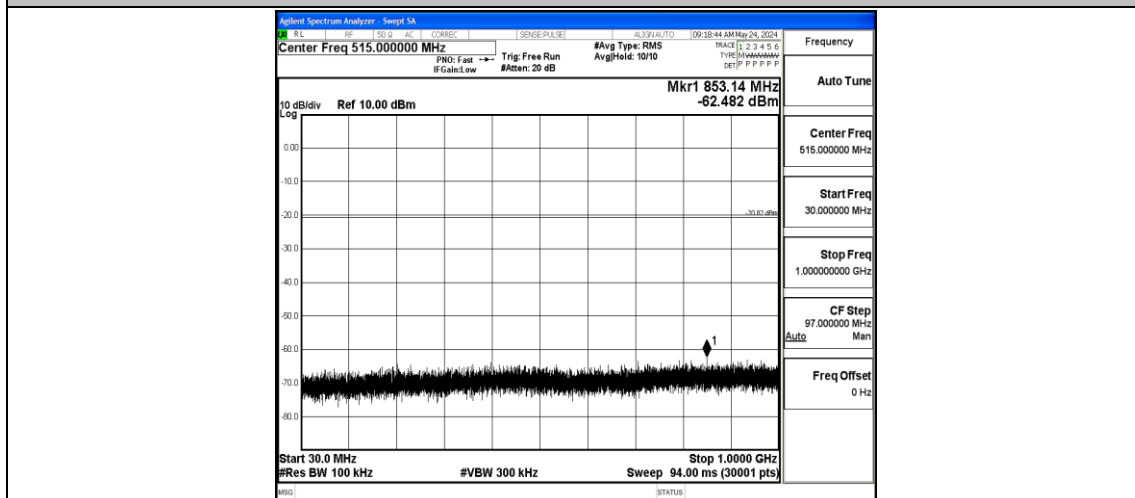
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2403	0~Reference	-1.08	-1.08	---	PASS
SRD	Ant1	2403	30~1000	-1.08	-63.05	≤-21.08	PASS
SRD	Ant1	2403	1000~26500	-1.08	-50.03	≤-21.08	PASS
SRD	Ant1	2442	0~Reference	-0.82	-0.82	---	PASS
SRD	Ant1	2442	30~1000	-0.82	-62.48	≤-20.82	PASS
SRD	Ant1	2442	1000~26500	-0.82	-49.72	≤-20.82	PASS
SRD	Ant1	2480	0~Reference	-0.86	-0.86	---	PASS
SRD	Ant1	2480	30~1000	-0.86	-62.87	≤-20.86	PASS
SRD	Ant1	2480	1000~26500	-0.86	-49.65	≤-20.86	PASS

Test Graphs

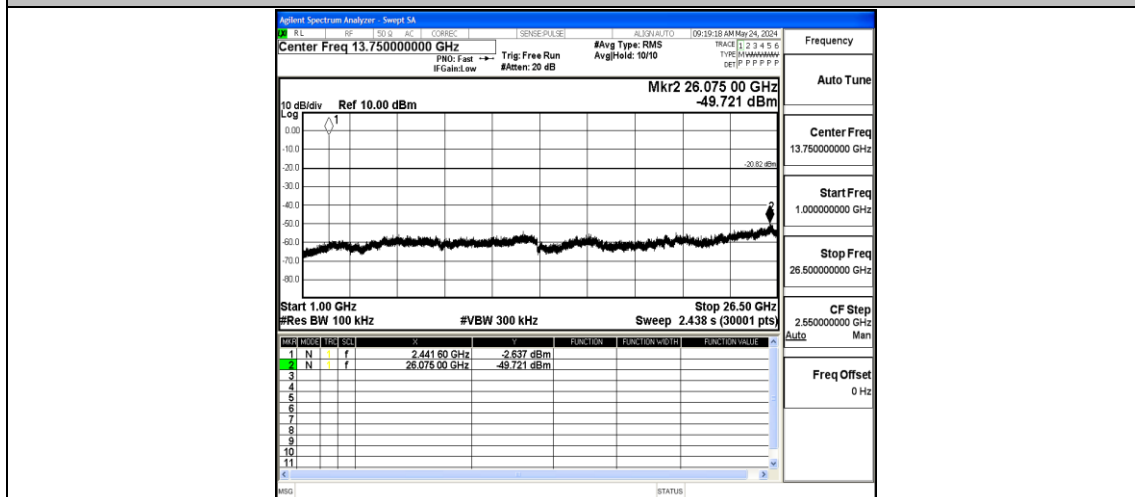




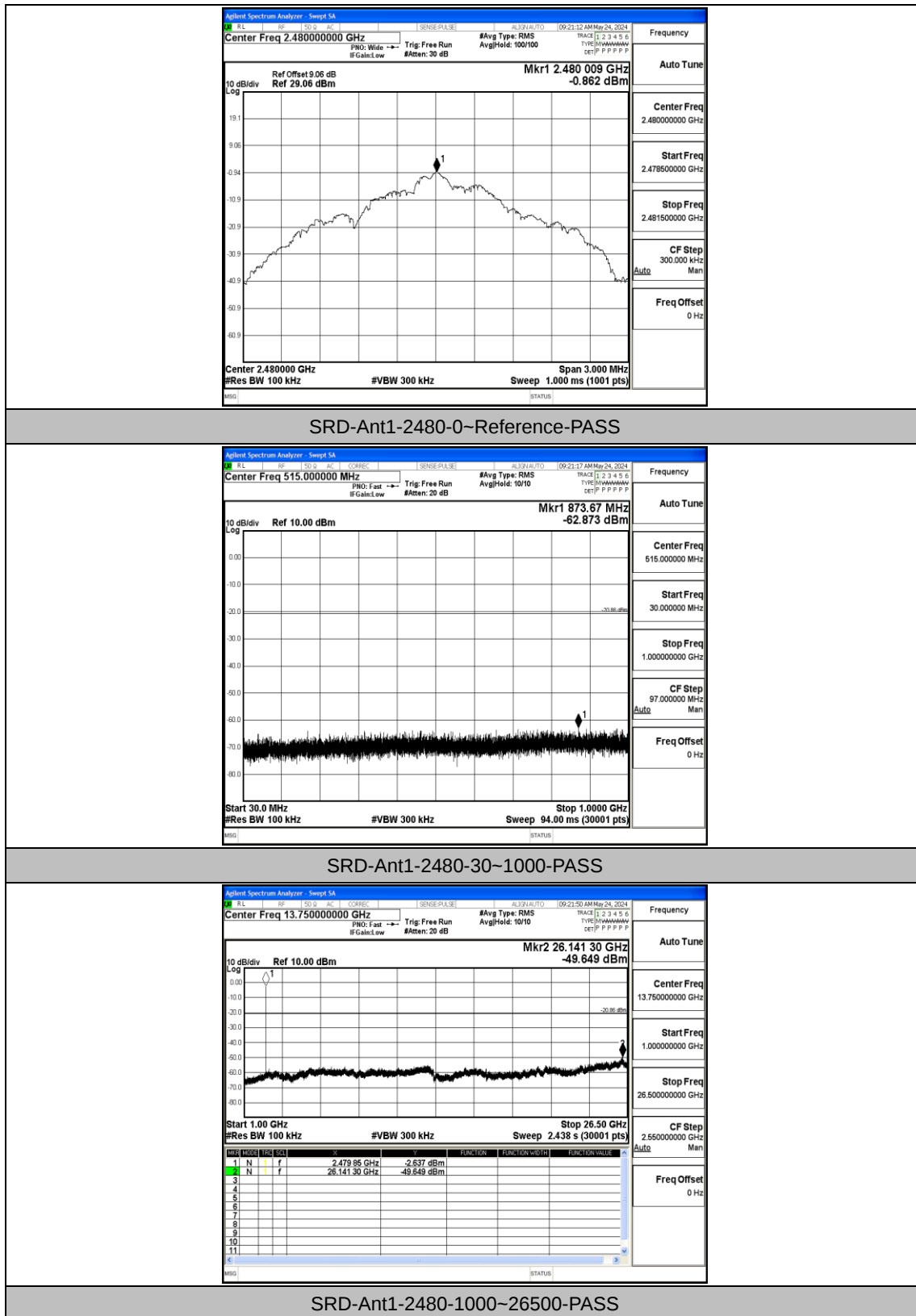
SRD-Ant1-2442-0~Reference-PASS



SRD-Ant1-2442-30~1000-PASS



SRD-Ant1-2442-1000~26500-PASS



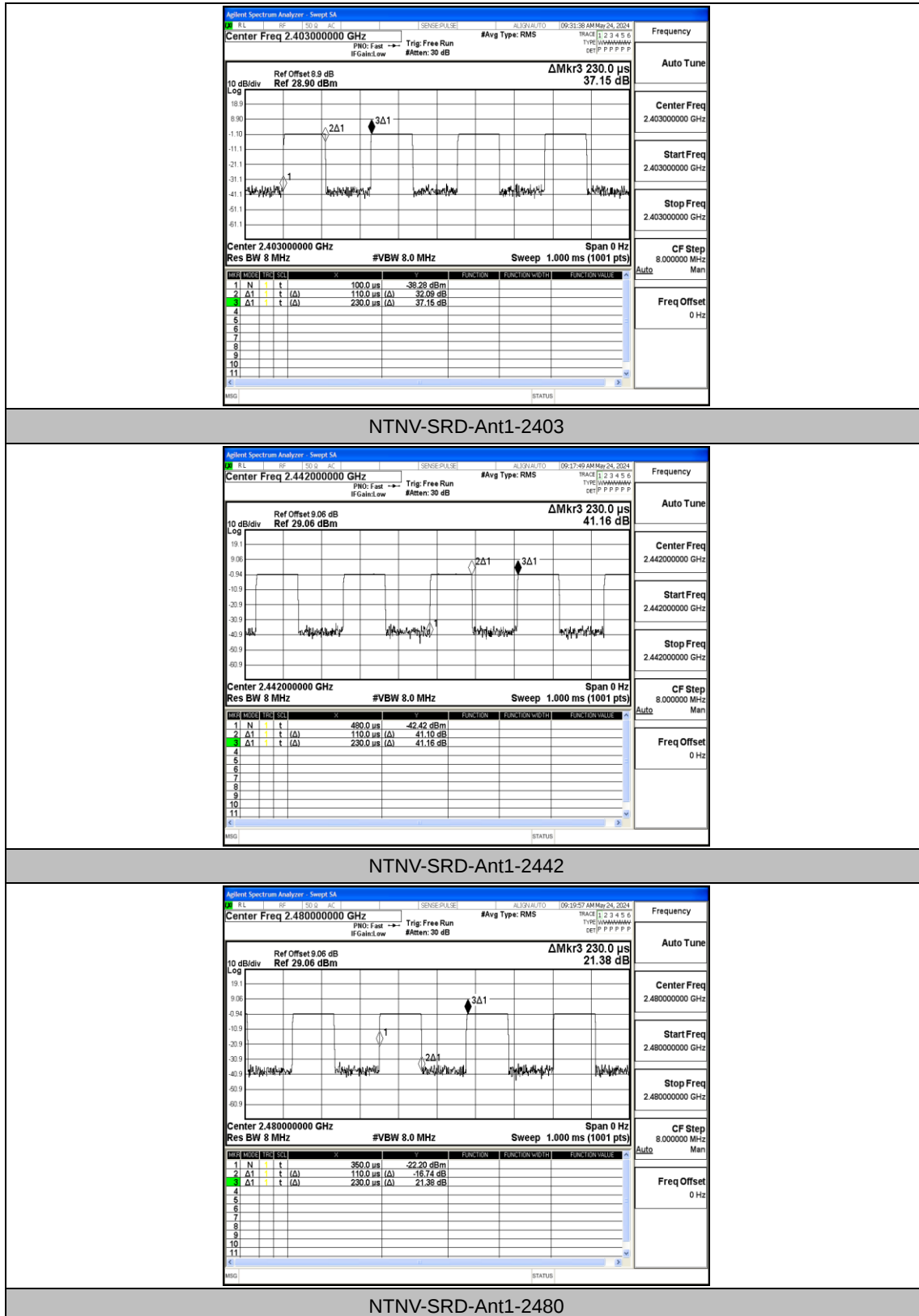
SRD-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
SRD	Ant1	2403	0.11	0.23	47.83	3.20
SRD	Ant1	2442	0.11	0.23	47.83	3.20
SRD	Ant1	2480	0.11	0.23	47.83	3.20

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	2403	Peak	2390.000	-51.7	≤-21.20	43.50	≤74	PASS
SRD	Ant1	Low	2403	Peak	2310.000	-52.18	≤-21.20	43.02	≤74	PASS
SRD	Ant1	Low	2403	Peak	2389.565	-48.18	≤-21.20	47.02	≤74	PASS
SRD	Ant1	Low	2403	AV	2390.000	-57.17	≤-41.20	38.03	≤54	PASS
SRD	Ant1	Low	2403	AV	2310.000	-57.87	≤-41.20	37.33	≤54	PASS
SRD	Ant1	Low	2403	AV	2387.255	-55.51	≤-41.20	39.69	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-38.7	≤-21.20	56.50	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-50.46	≤-21.20	44.74	≤74	PASS
SRD	Ant1	High	2480	Peak	2483.520	-38.7	≤-21.20	56.50	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-50.69	≤-41.20	44.51	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-56	≤-41.20	39.20	≤54	PASS
SRD	Ant1	High	2480	AV	2483.520	-50.69	≤-41.20	44.51	≤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

