

Appendix Test Data for BT(BLE) (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: V1 Max

FCC ID: 2ASF4-V1MAX

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.352	2401.372	2402.724	0.5	PASS
		2440	1.472	2439.244	2440.716	0.5	PASS
		2480	1.384	2479.356	2480.740	0.5	PASS

Test Graphs

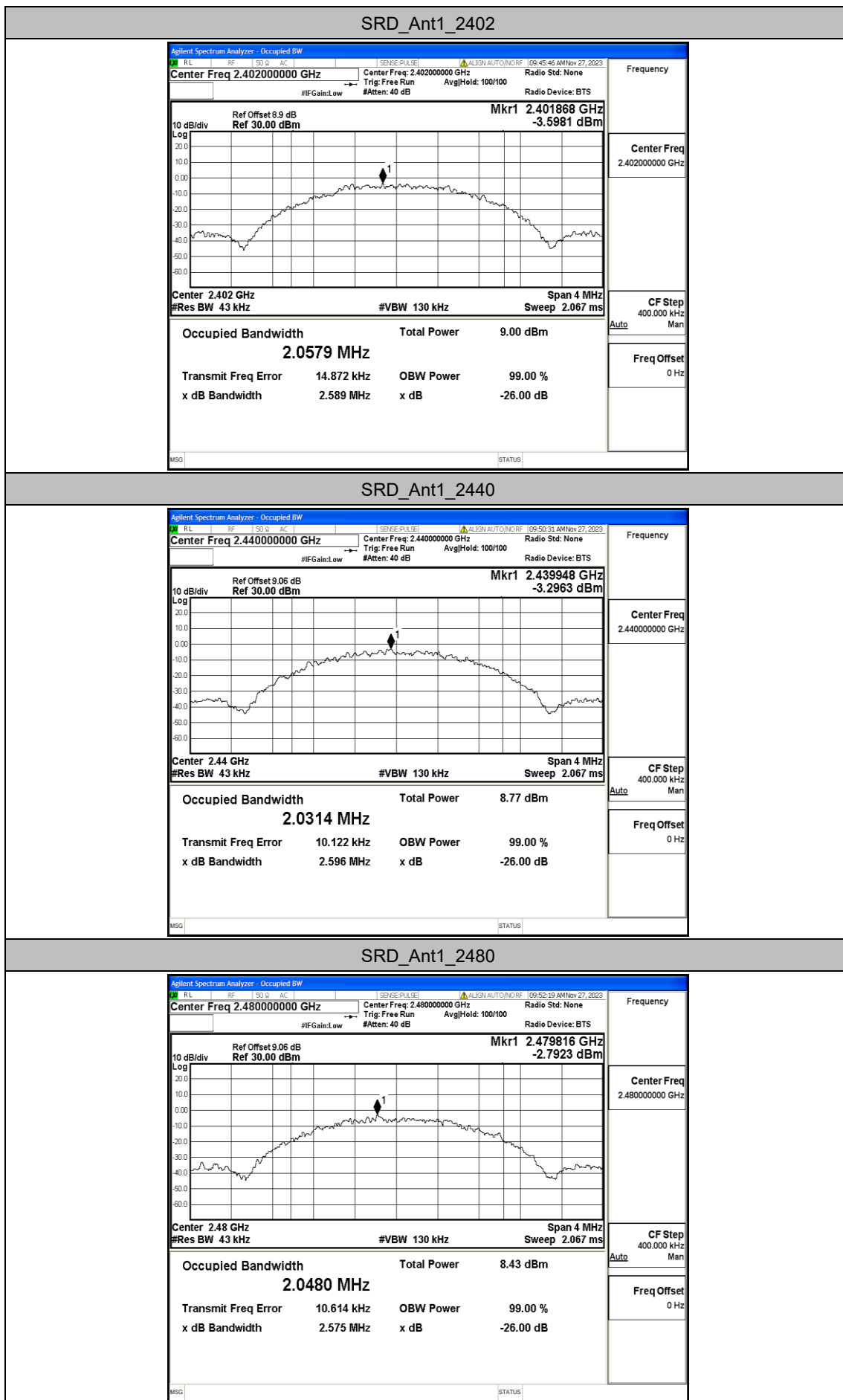


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0579	2400.9859	2403.0438	---	---
		2440	2.0314	2438.9944	2441.0258	---	---
		2480	2.0480	2478.9866	2481.0346	---	---

Test Graphs

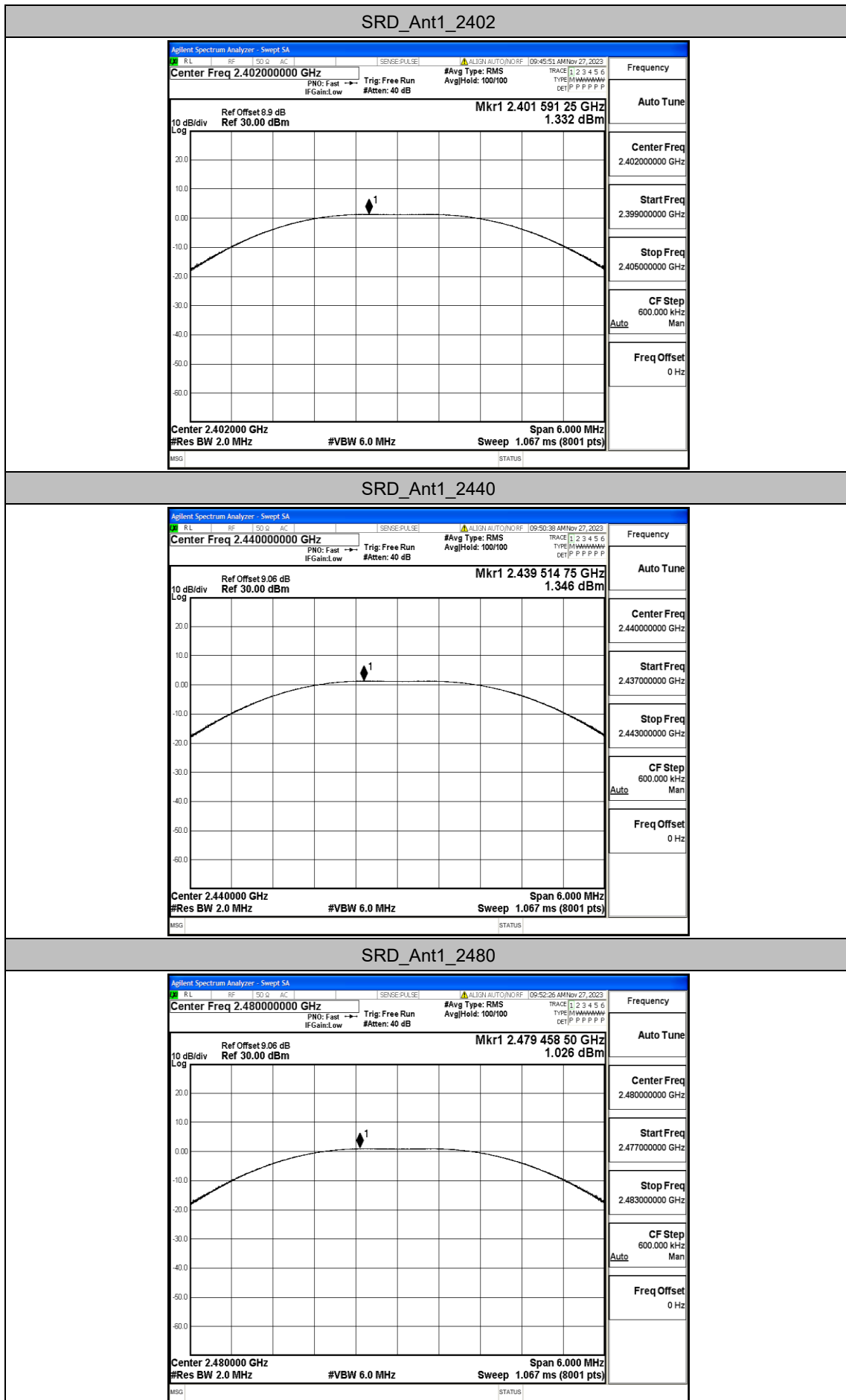


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	1.33	≤30	PASS
		2440	1.35	≤30	PASS
		2480	1.03	≤30	PASS

Test Graphs

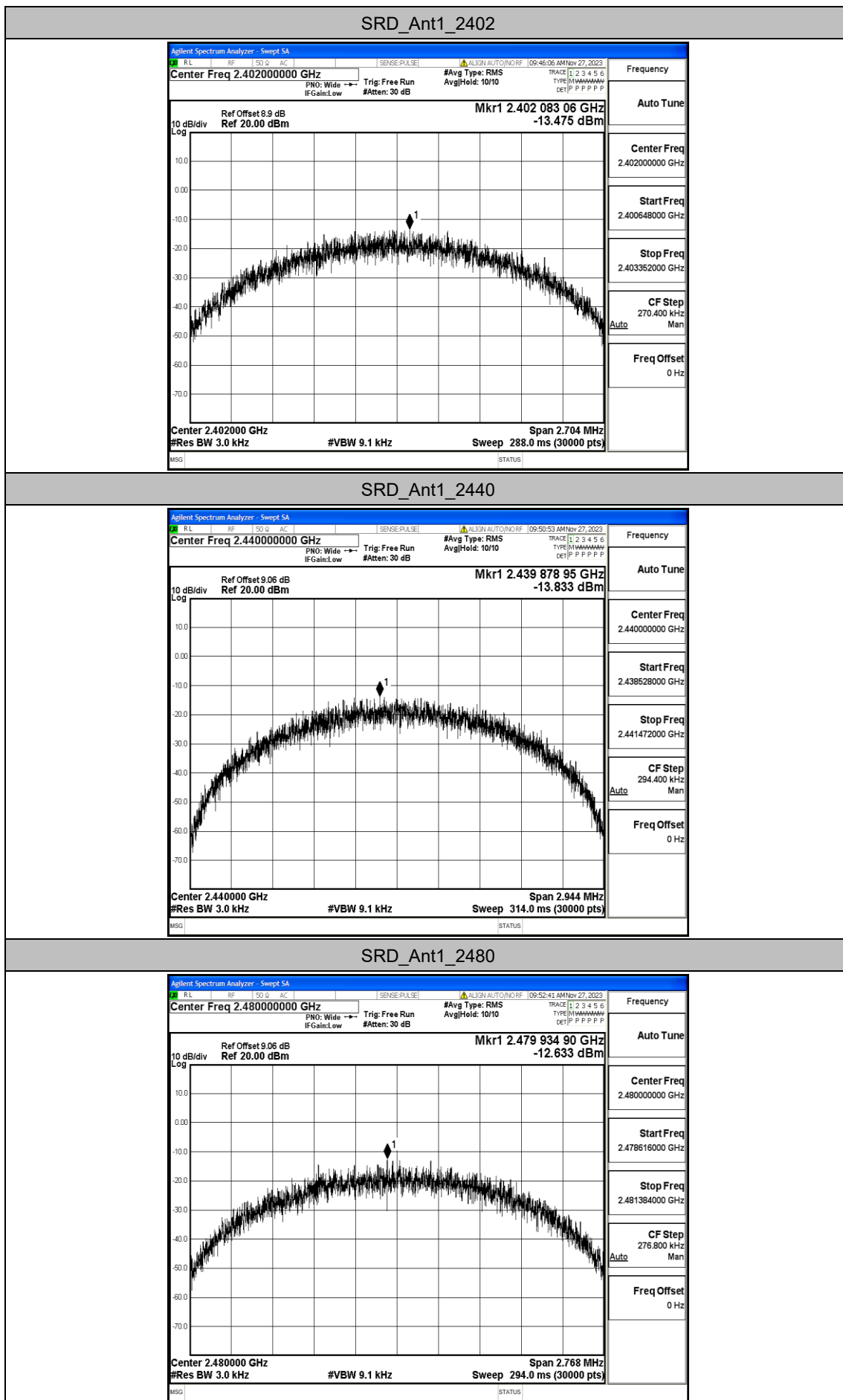


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-13.48	≤8.00	PASS
		2440	-13.83	≤8.00	PASS
		2480	-12.63	≤8.00	PASS

Test Graphs

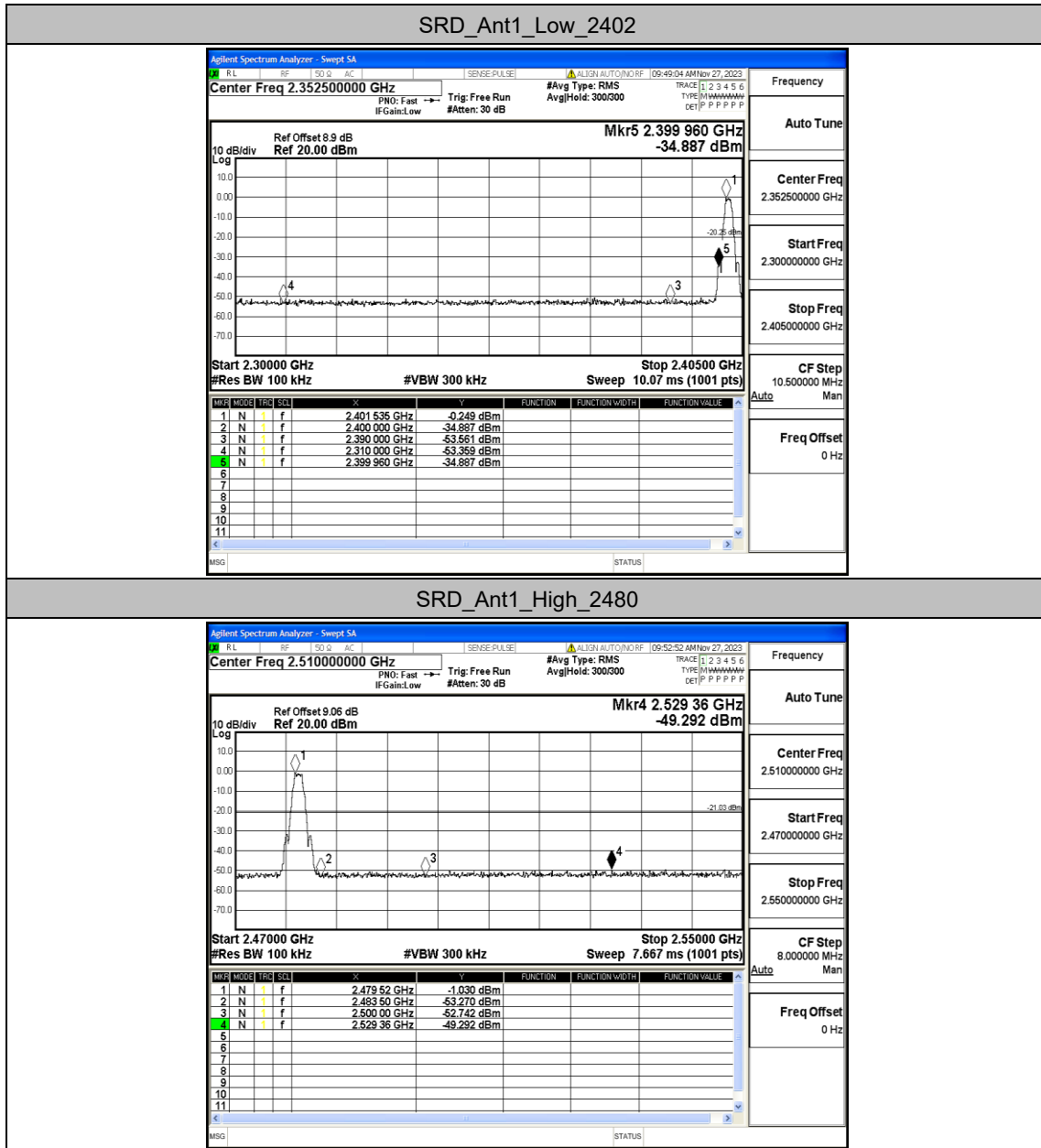


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-0.25	-34.89	≤-20.25	PASS
		High	2480	-1.03	-49.29	≤-21.03	PASS

Test Graphs

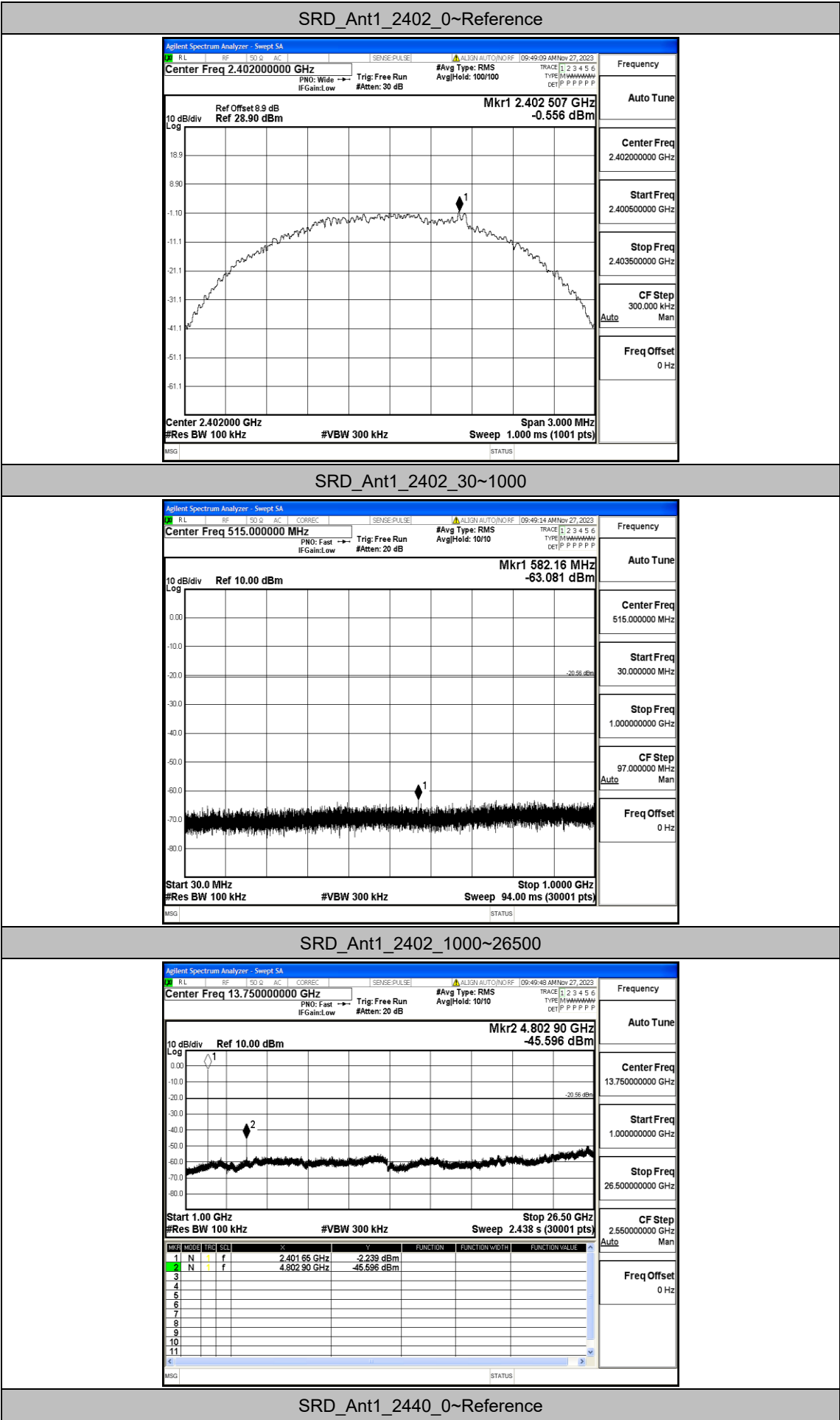


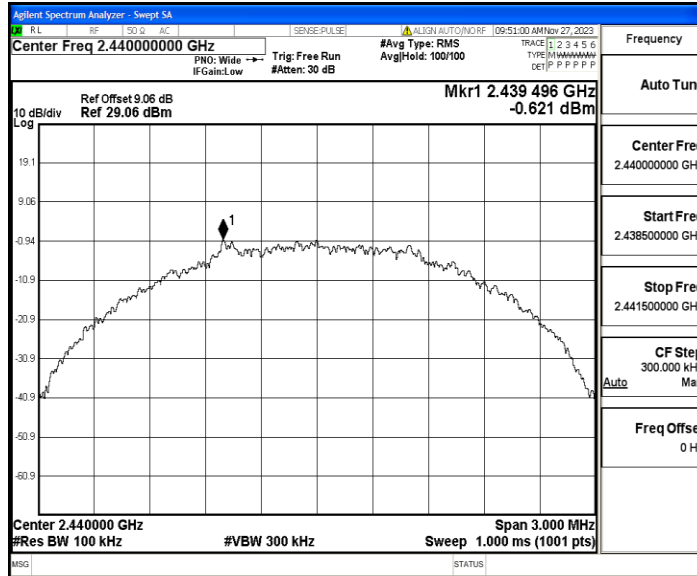
Appendix F: Conducted Spurious Emission

Test Result

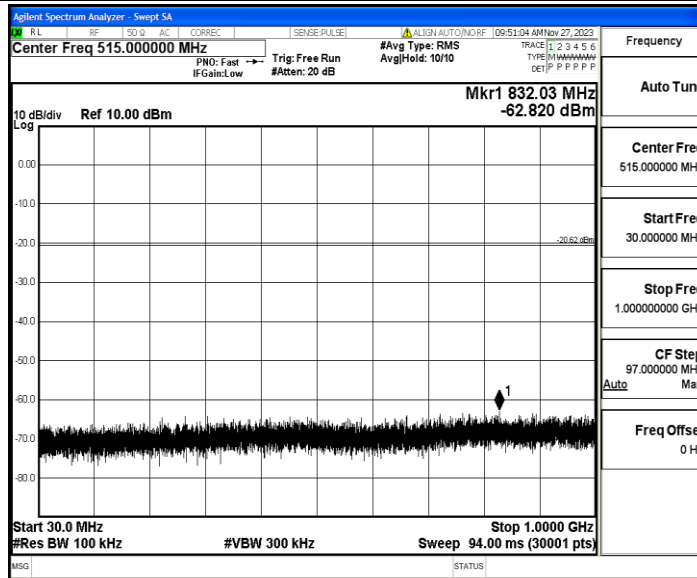
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-63.08	≤-20.56	PASS
			1000~26500	-0.56	-45.6	≤-20.56	PASS
		2440	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-62.82	≤-20.62	PASS
			1000~26500	-0.62	-44.41	≤-20.62	PASS
		2480	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-62.82	≤-20.99	PASS
			1000~26500	-0.99	-44.35	≤-20.99	PASS

Test Graphs

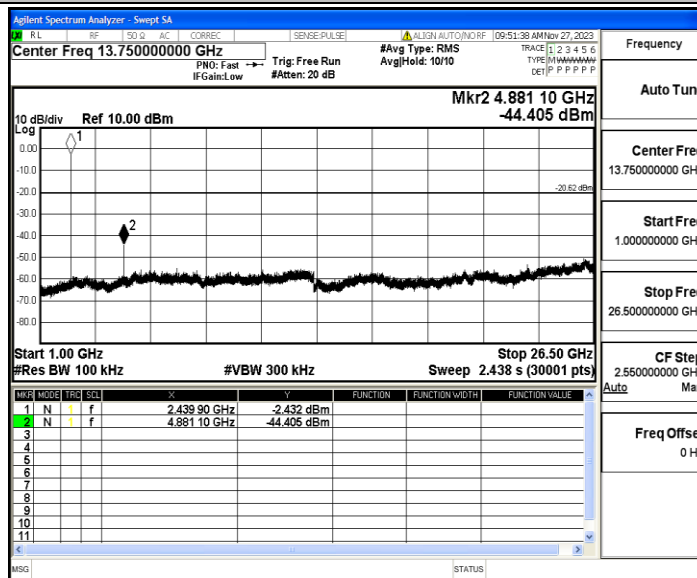




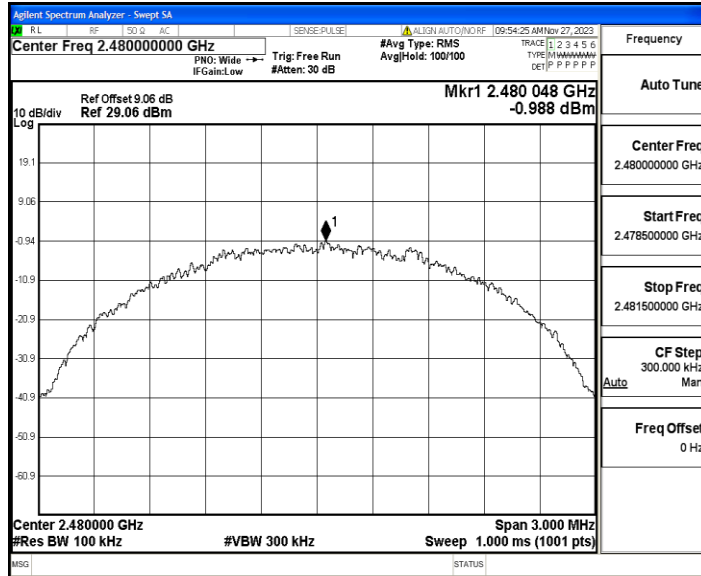
SRD_Ant1_2440_30~1000



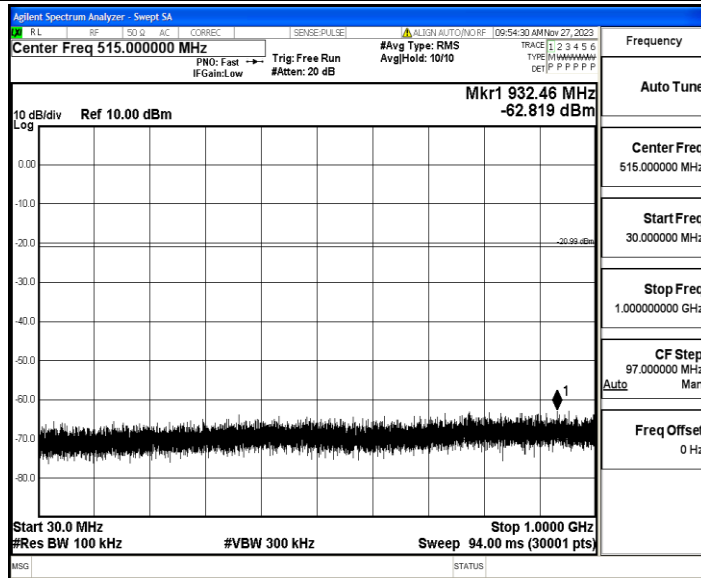
SRD_Ant1_2440_1000~26500



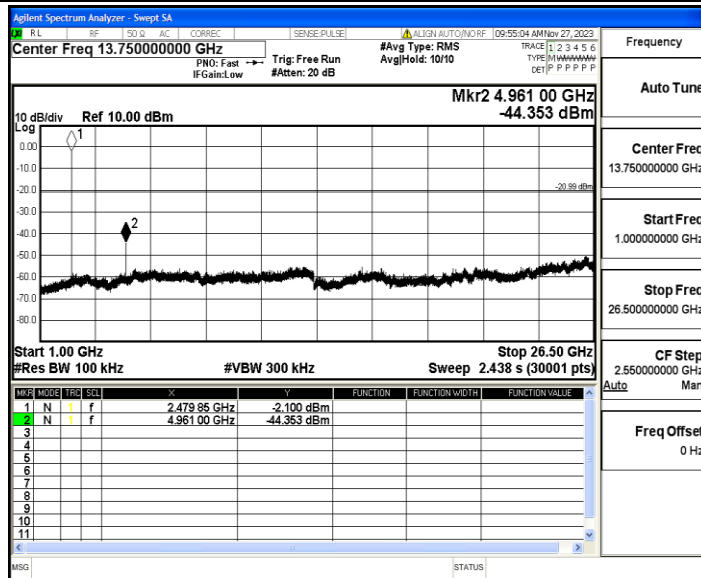
SRD_Ant1_2480_0~Reference



SRD_Ant1_2480_30~1000



SRD_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
SRD	Ant1	2402	0.00	0.00	100	∞
		2440	0.00	0.00	100	∞
		2480	0.00	0.00	100	∞

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	AV	2310.000	-49.88	≤-41.20	PASS
				AV	2388.725	-49.6	≤-41.20	PASS
				AV	2390.000	-49.62	≤-41.20	PASS
				Peak	2310.000	-45.16	≤-21.20	PASS
				Peak	2361.740	-39.85	≤-21.20	PASS
				Peak	2390.000	-42.83	≤-21.20	PASS
		High	2480	AV	2483.500	-45.4	≤-41.20	PASS
				AV	2483.520	-45.4	≤-41.20	PASS
				AV	2500.000	-48.88	≤-41.20	PASS
				Peak	2483.500	-44.28	≤-21.20	PASS
				Peak	2498.560	-39.95	≤-21.20	PASS
				Peak	2500.000	-43.48	≤-21.20	PASS

Note:

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
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

