

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: K13 Max

FCC ID: 2ASF4-K13MAX

Environmental Conditions

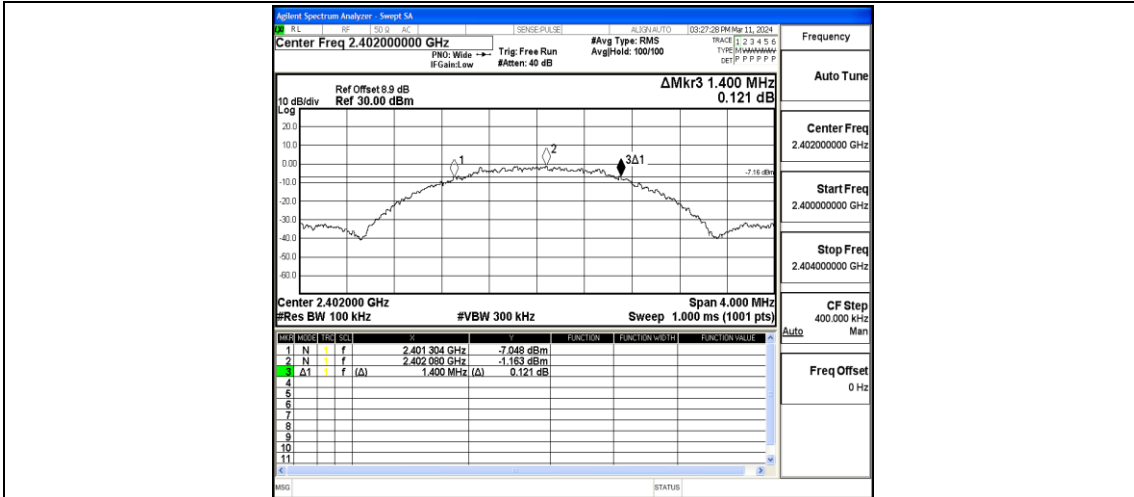
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

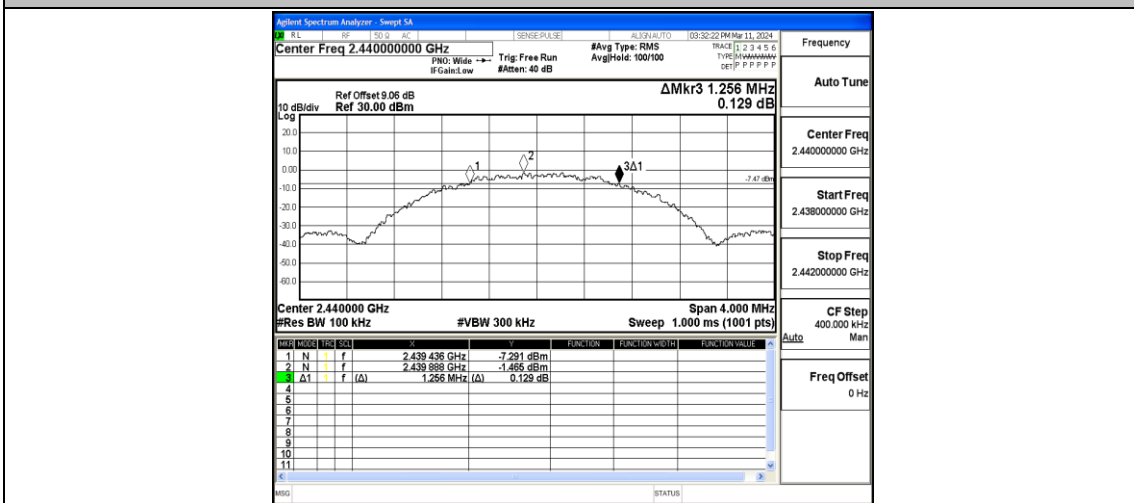
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.400	2401.304	2402.704	0.5	PASS
SRD	Ant1	2440	1.256	2439.436	2440.692	0.5	PASS
SRD	Ant1	2480	1.436	2479.324	2480.760	0.5	PASS

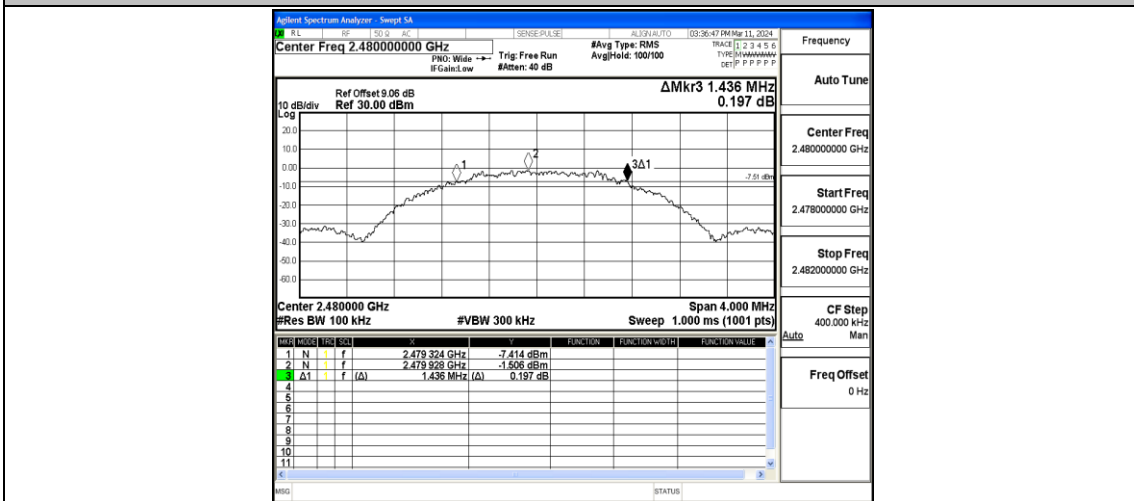
Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



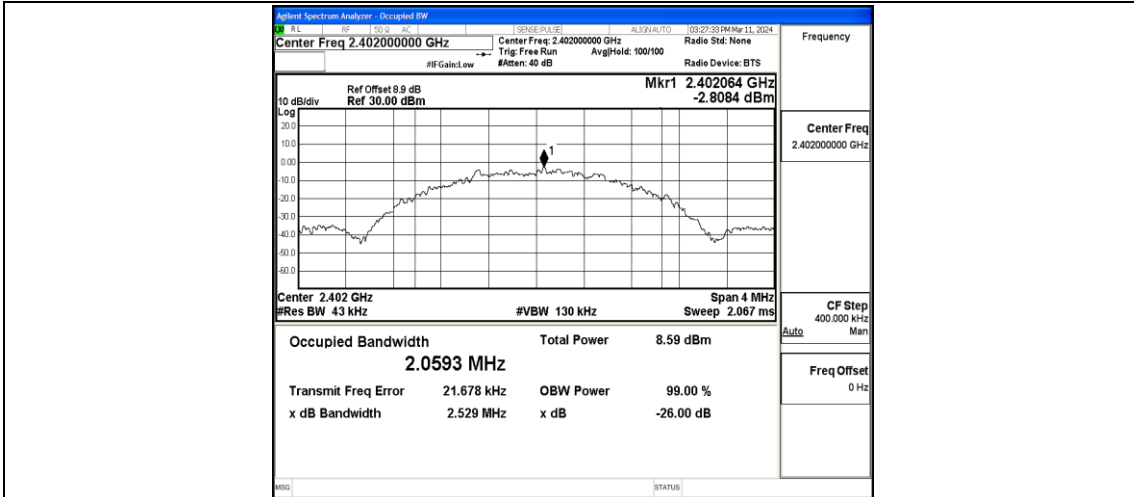
SRD-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

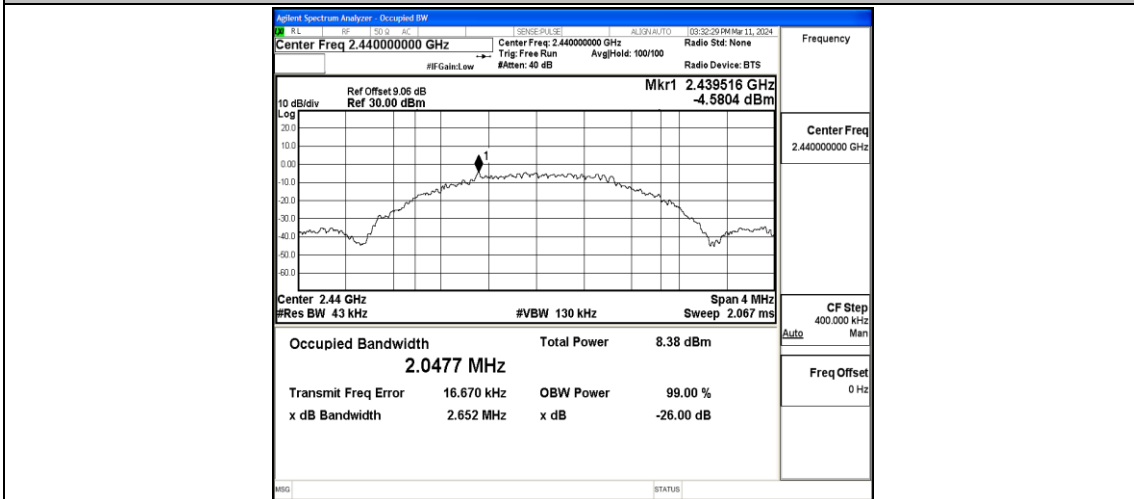
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0593	2400.9920	2403.0513	---	---
SRD	Ant1	2440	2.0477	2438.9928	2441.0405	---	---
SRD	Ant1	2480	2.0606	2478.9904	2481.0510	---	---

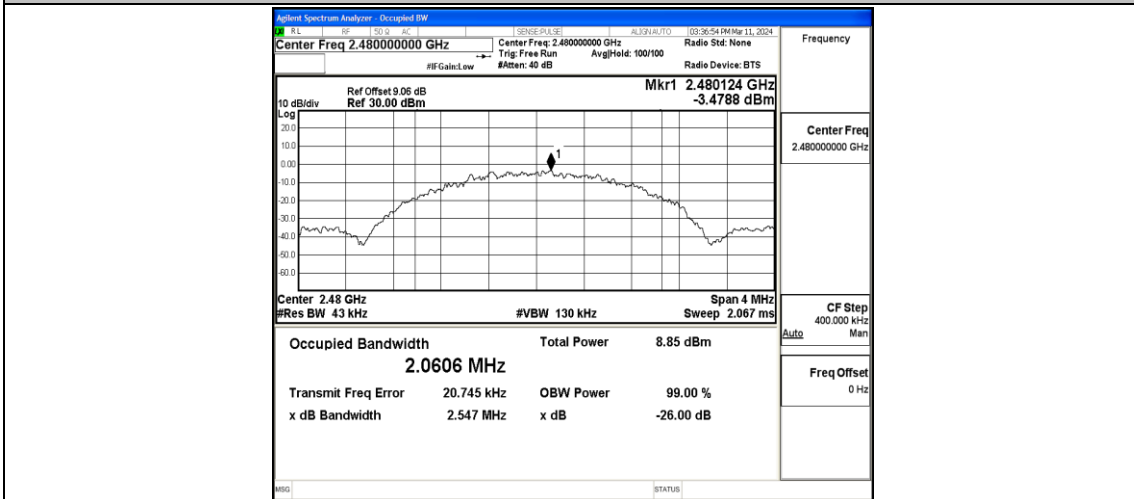
Test Graphs



SRD-Ant1-2402



SRD-Ant1-2440



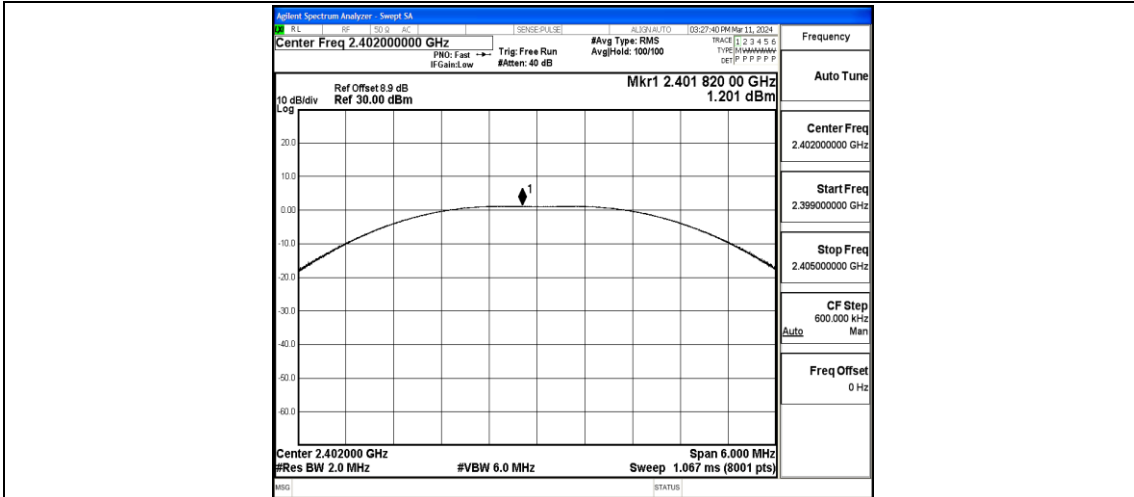
SRD-Ant1-2480

Appendix C: Maximum peak conducted output power

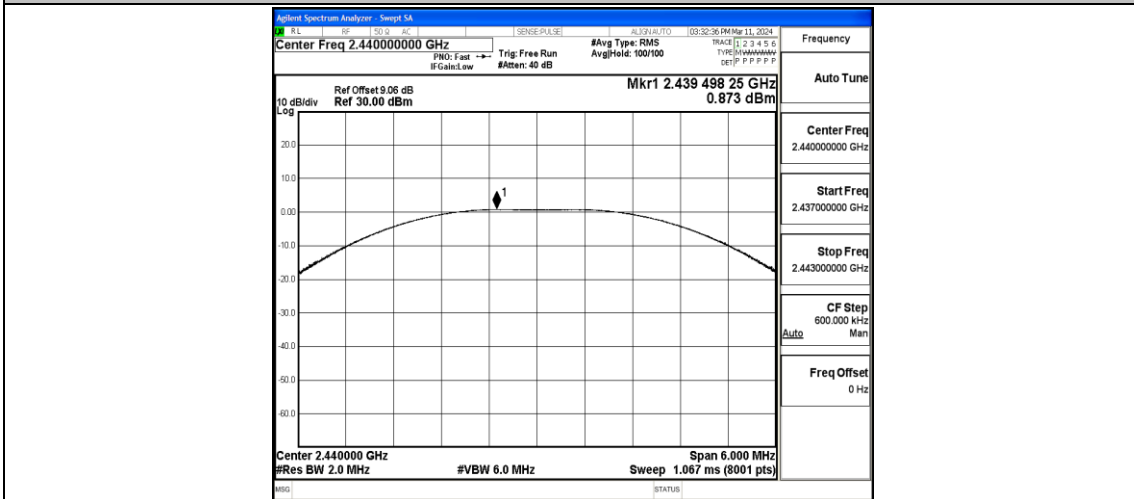
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2402	1.20	≤30	PASS
SRD	Ant1	2440	0.87	≤30	PASS
SRD	Ant1	2480	1.24	≤30	PASS

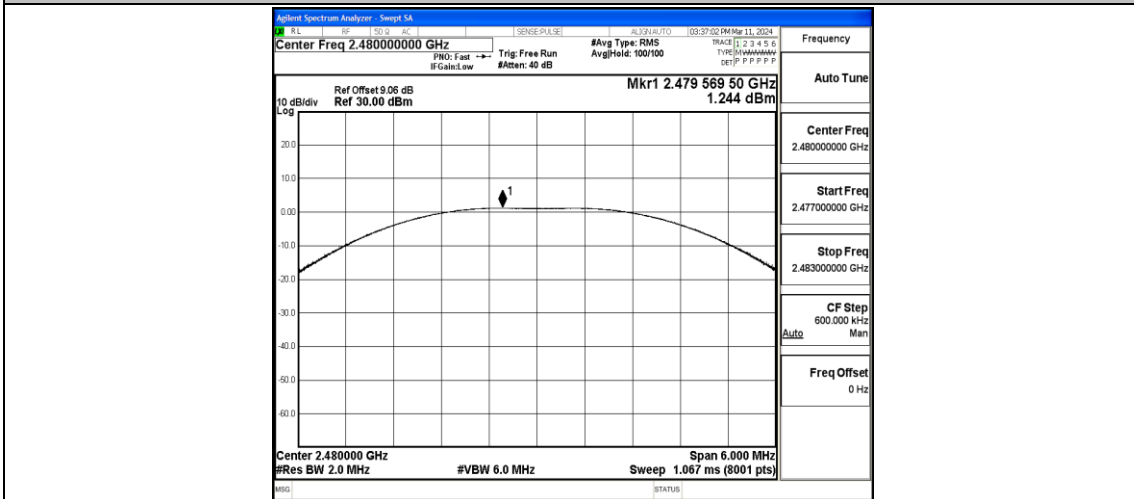
Test Graphs Peak



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



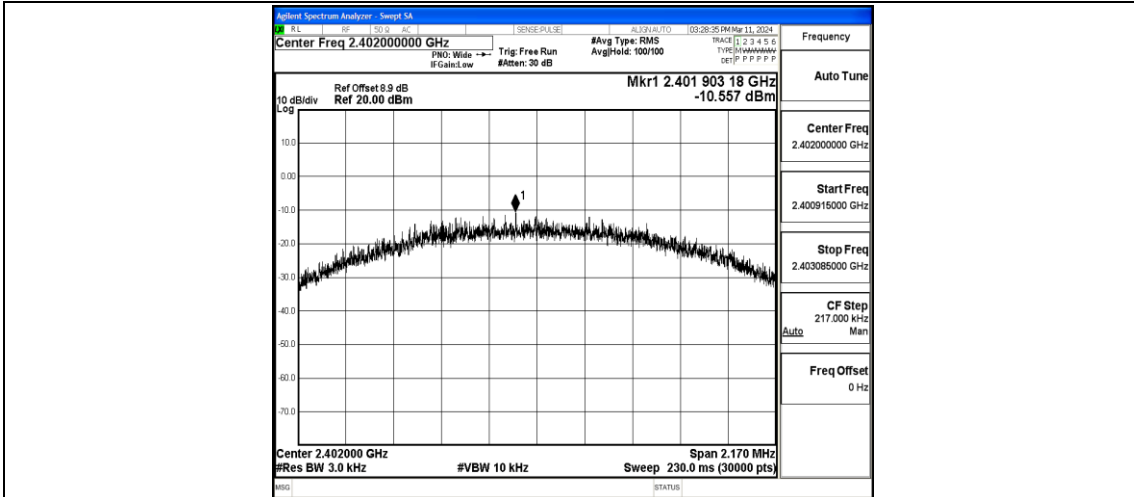
SRD-Ant1-2480-PASS

Appendix D: Maximum peak power spectral density

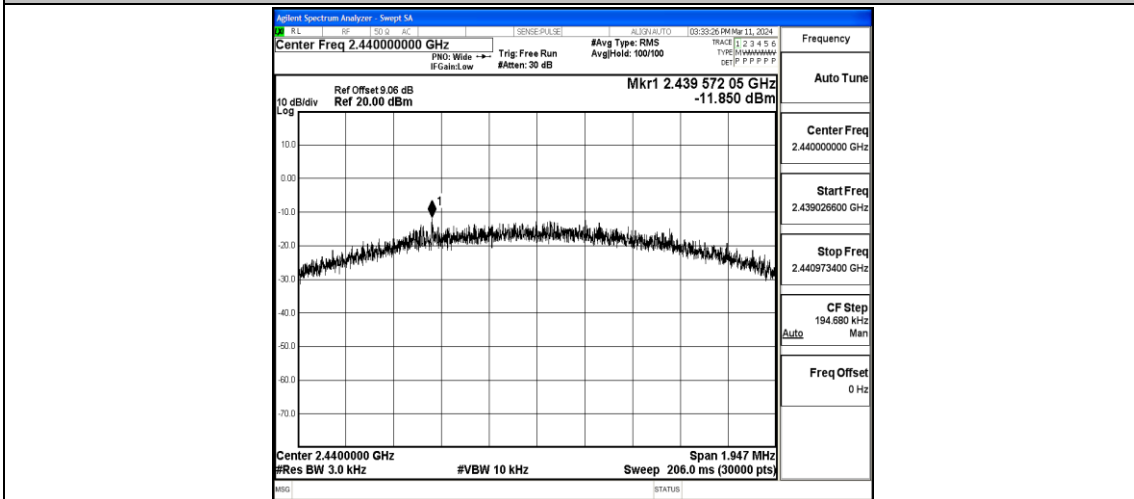
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-10.56	≤8.00	PASS
SRD	Ant1	2440	-11.85	≤8.00	PASS
SRD	Ant1	2480	-11.81	≤8.00	PASS

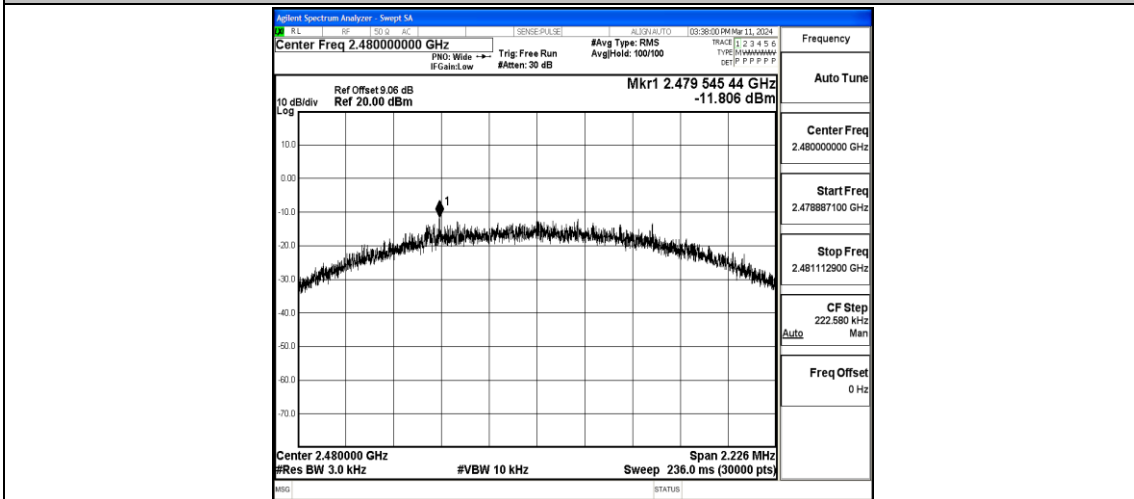
Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



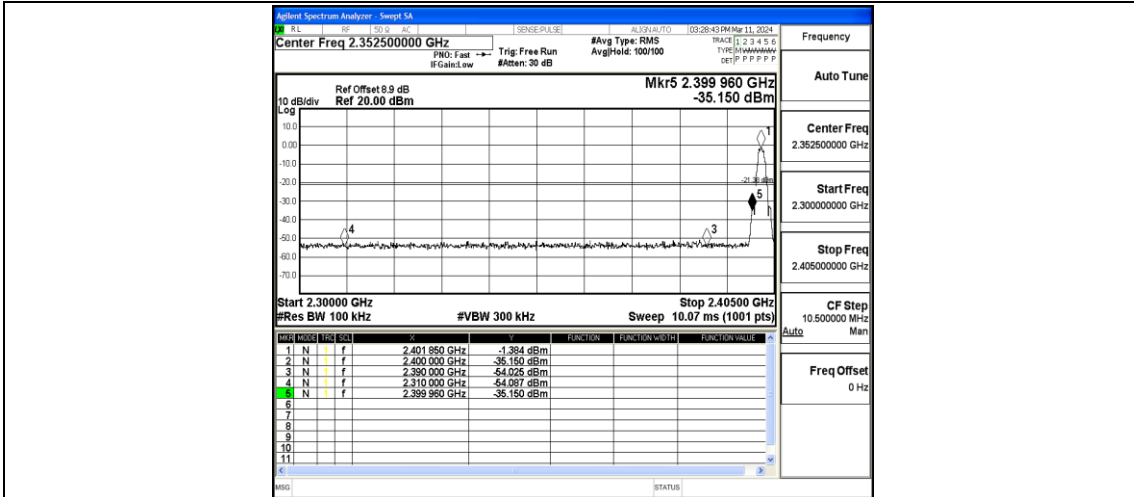
SRD-Ant1-2480-PASS

Appendix E: Band edge measurements

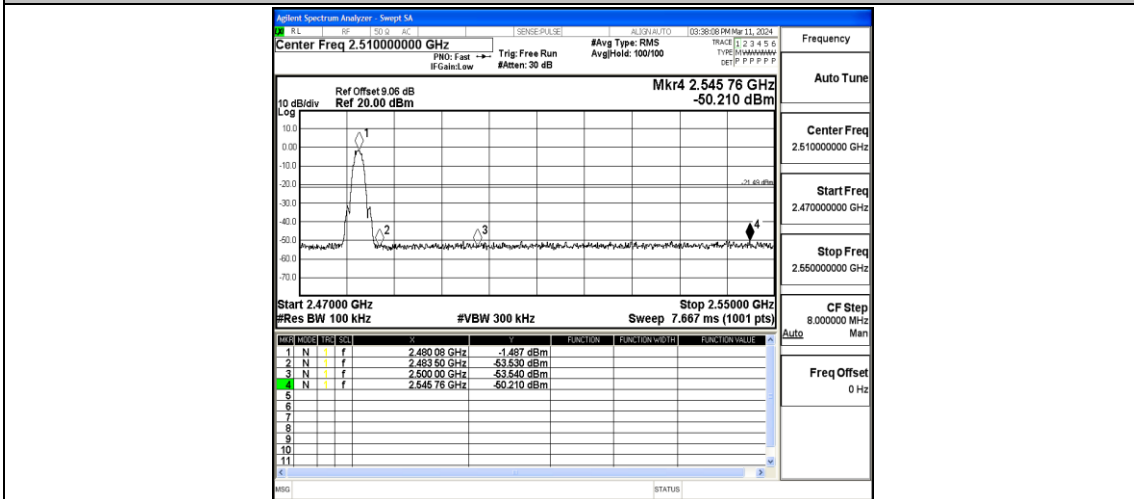
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-1.38	-35.15	≤-21.38	PASS
SRD	Ant1	High	2480	-1.49	-50.21	≤-21.49	PASS

Test Graphs



SRD-Ant1-2402-PASS



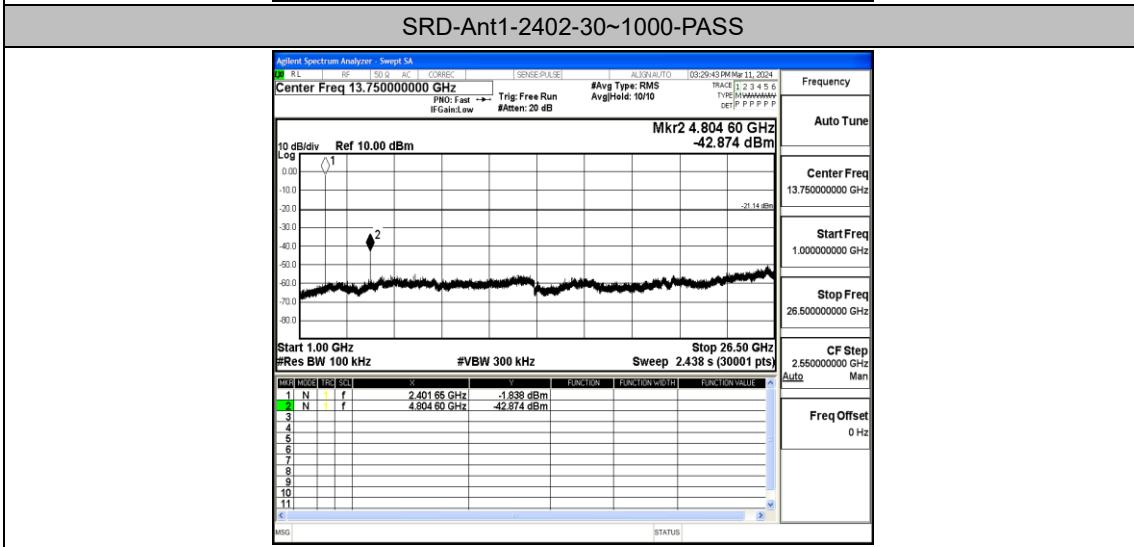
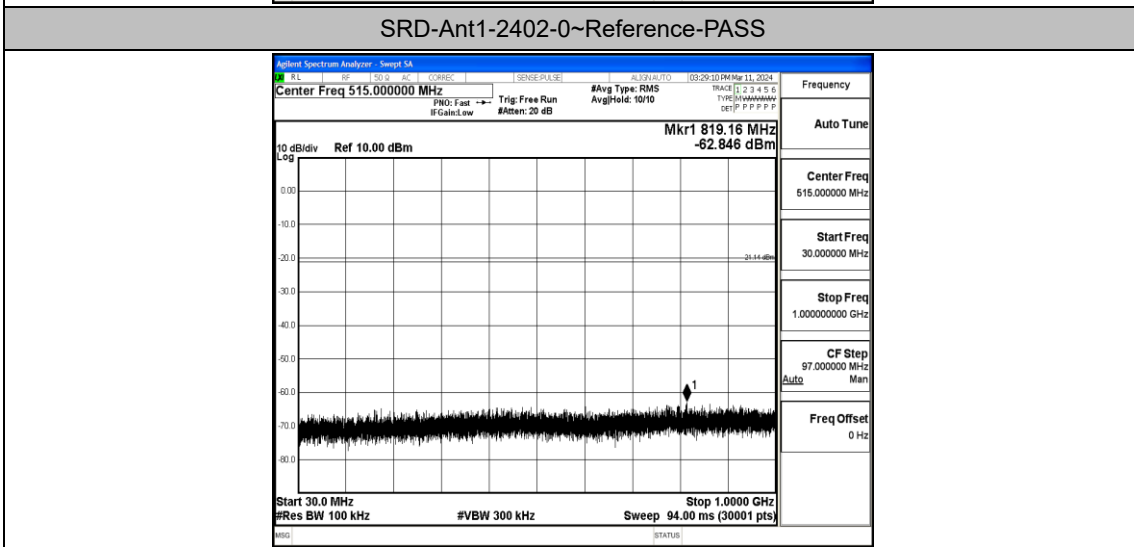
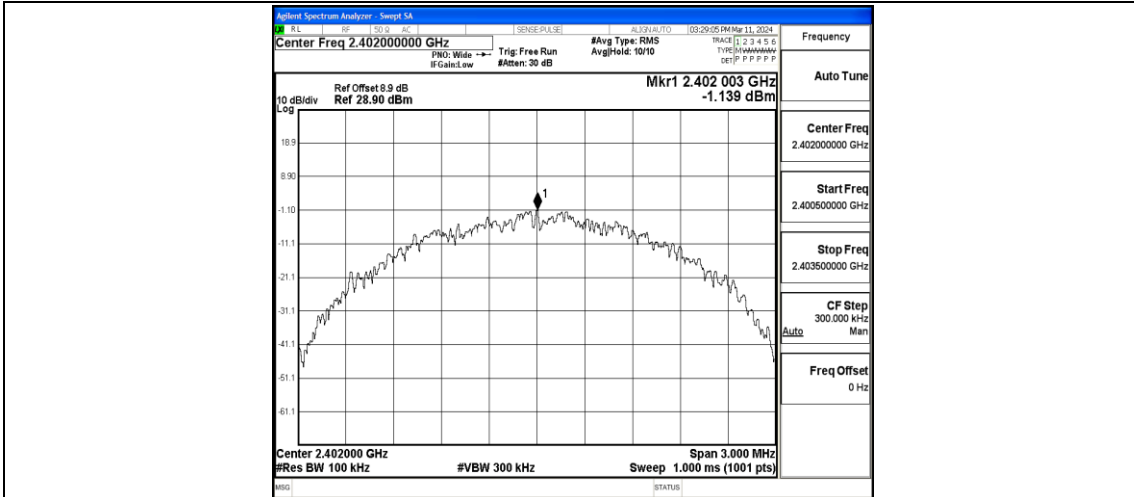
SRD-Ant1-2480-PASS

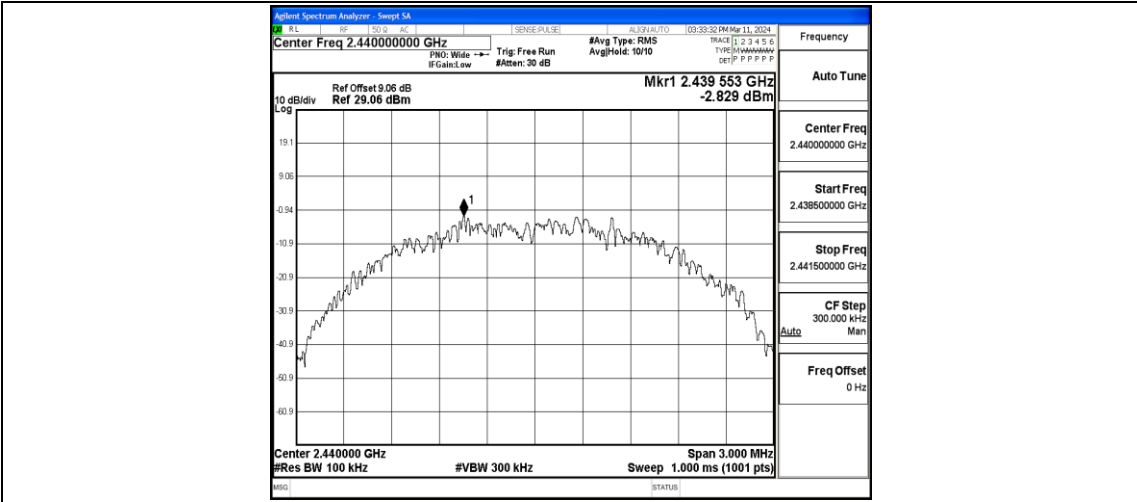
Appendix F: Conducted Spurious Emission

Test Result

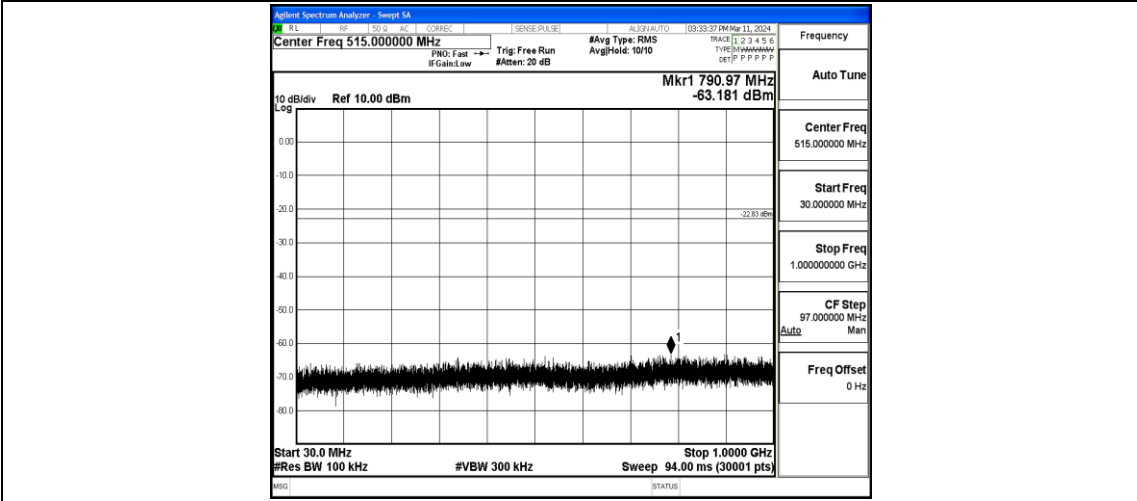
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	-1.14	-1.14	---	PASS
SRD	Ant1	2402	30~1000	-1.14	-62.85	≤-21.14	PASS
SRD	Ant1	2402	1000~26500	-1.14	-42.87	≤-21.14	PASS
SRD	Ant1	2440	0~Reference	-2.83	-2.83	---	PASS
SRD	Ant1	2440	30~1000	-2.83	-63.18	≤-22.83	PASS
SRD	Ant1	2440	1000~26500	-2.83	-44.97	≤-22.83	PASS
SRD	Ant1	2480	0~Reference	-1.90	-1.90	---	PASS
SRD	Ant1	2480	30~1000	-1.90	-63.45	≤-21.9	PASS
SRD	Ant1	2480	1000~26500	-1.90	-45.1	≤-21.9	PASS

Test Graphs

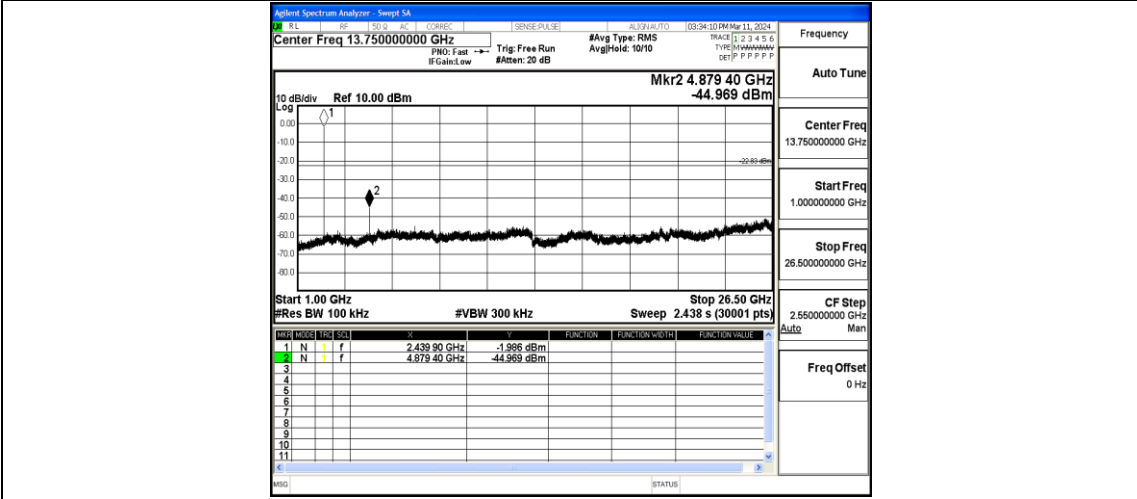




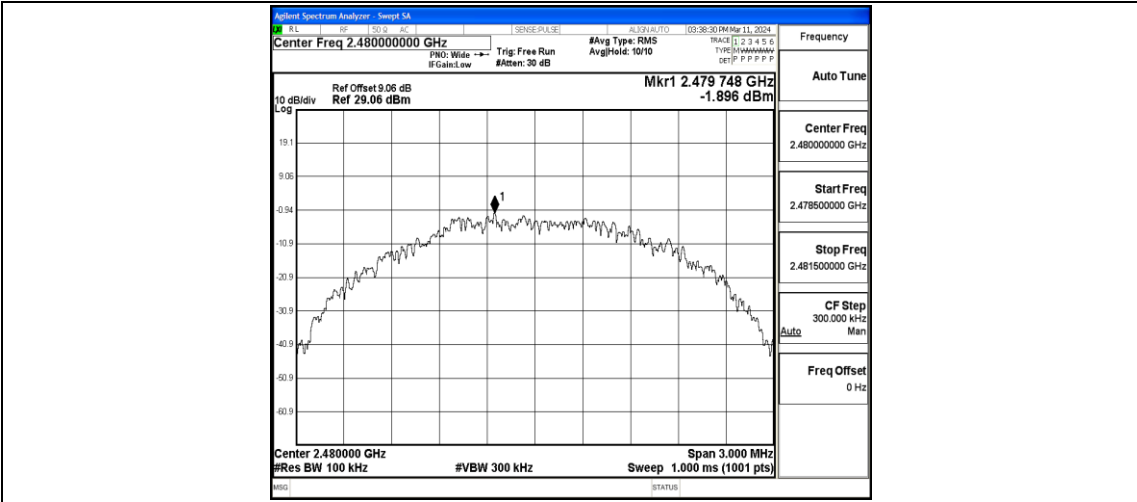
SRD-Ant1-2440-0~Reference-PASS



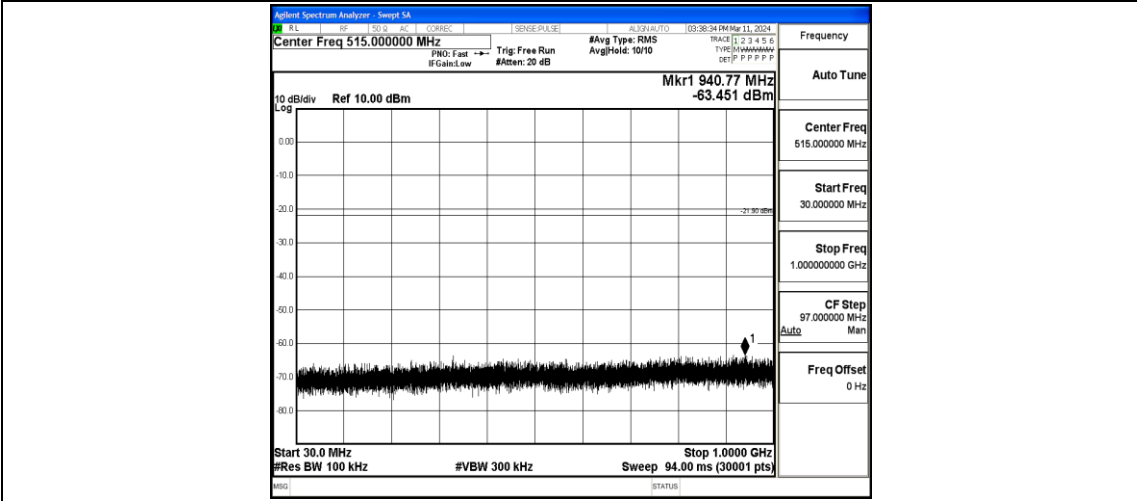
SRD-Ant1-2440-30~1000-PASS



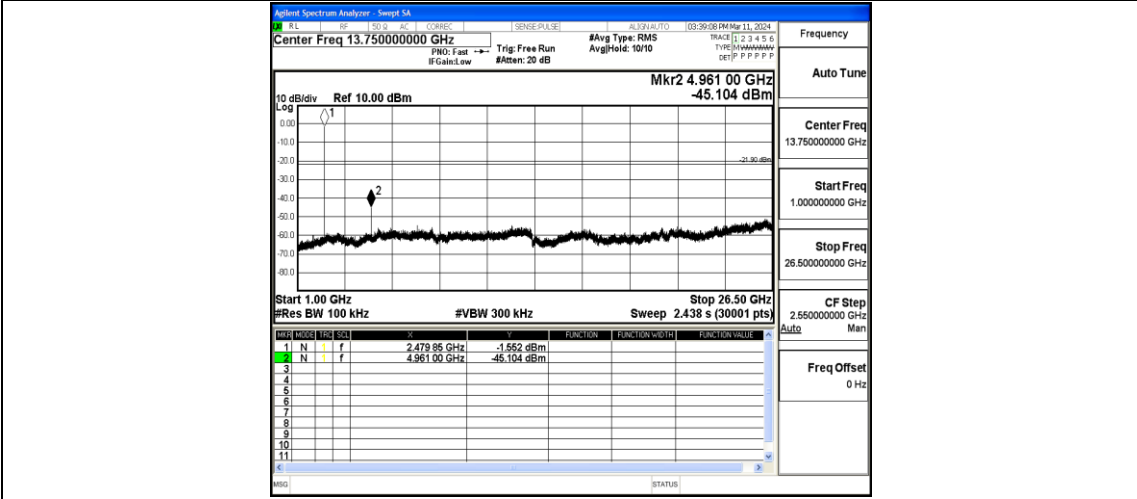
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



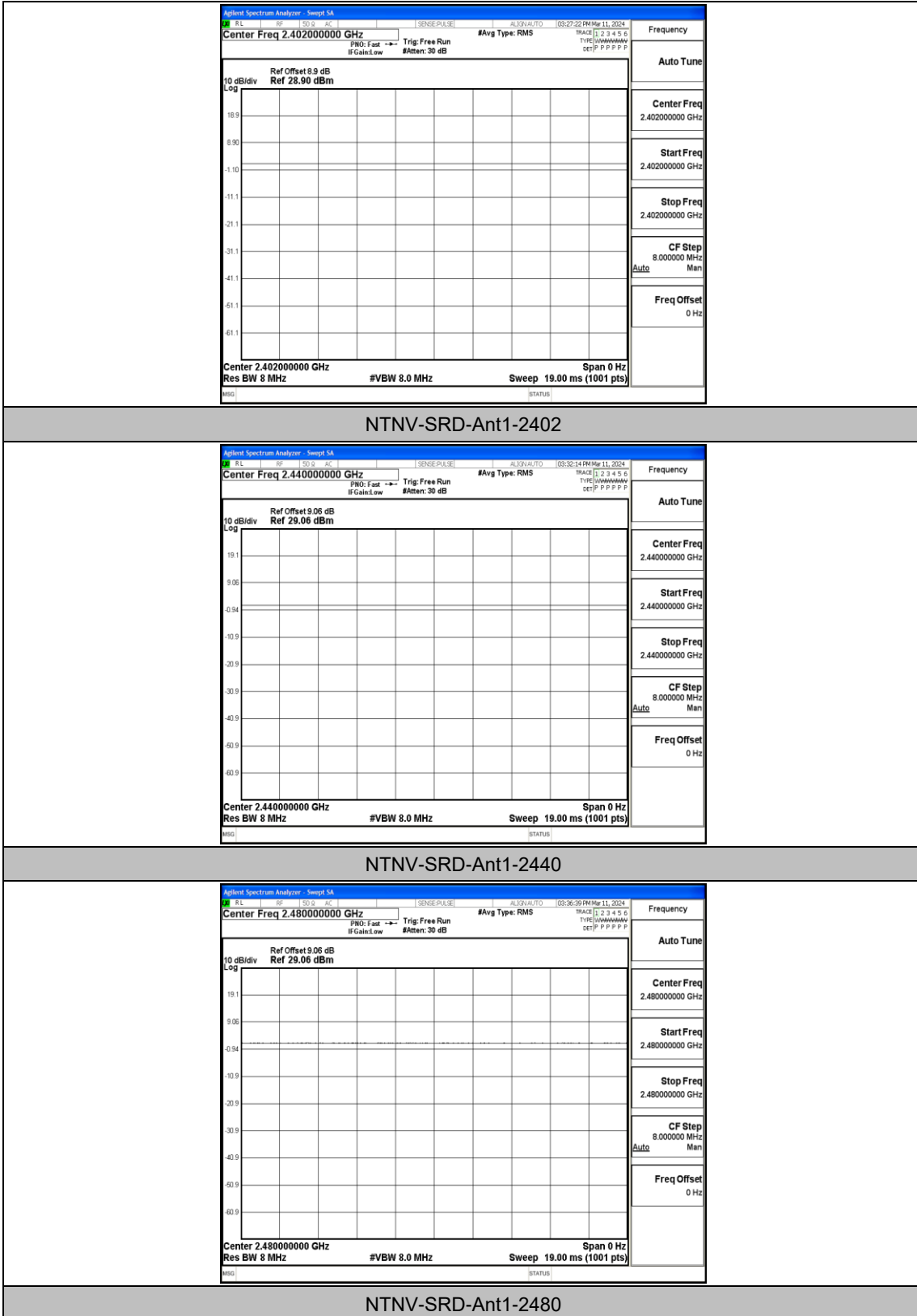
SRD-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
SRD	Ant1	2402	19.00	19.00	100
SRD	Ant1	2440	19.00	19.00	100
SRD	Ant1	2480	19.00	19.00	100

Test Graphs



Appendix H: Emissions in Restricted Bands

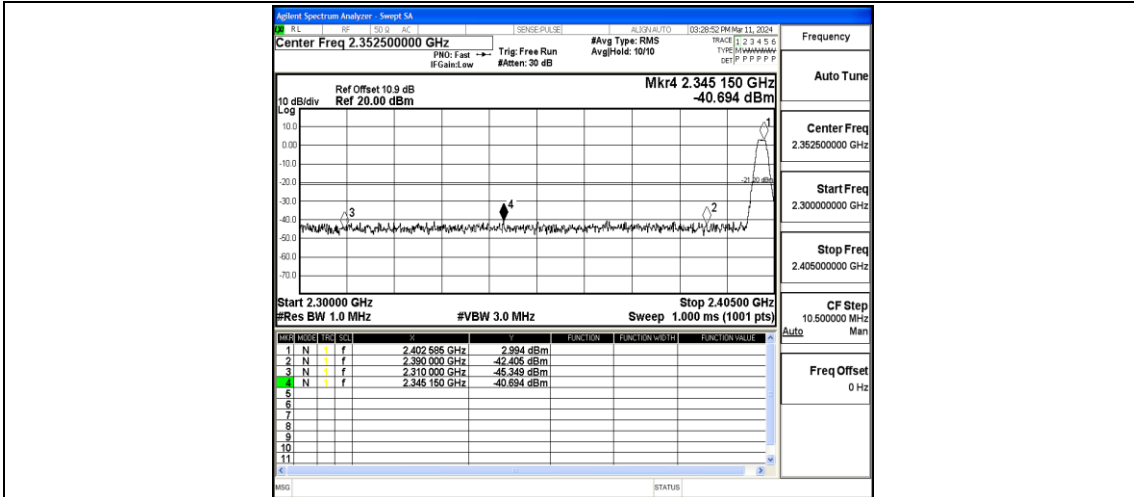
Test Result

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	-42.41	≤-21.20	52.79	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-45.35	≤-21.20	49.85	≤74	PASS
SRD	Ant1	Low	2402	Peak	2345.150	-40.69	≤-21.20	54.51	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-49.96	≤-41.20	45.24	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-50.2	≤-41.20	45.00	≤54	PASS
SRD	Ant1	Low	2402	AV	2373.080	-49.46	≤-41.20	45.74	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-44.27	≤-21.20	50.93	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-40.34	≤-21.20	54.86	≤74	PASS
SRD	Ant1	High	2480	Peak	2498.240	-40.56	≤-21.20	54.64	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-48.82	≤-41.20	46.38	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-49.46	≤-41.20	45.74	≤54	PASS
SRD	Ant1	High	2480	AV	2483.600	-48.67	≤-41.20	46.53	≤54	PASS

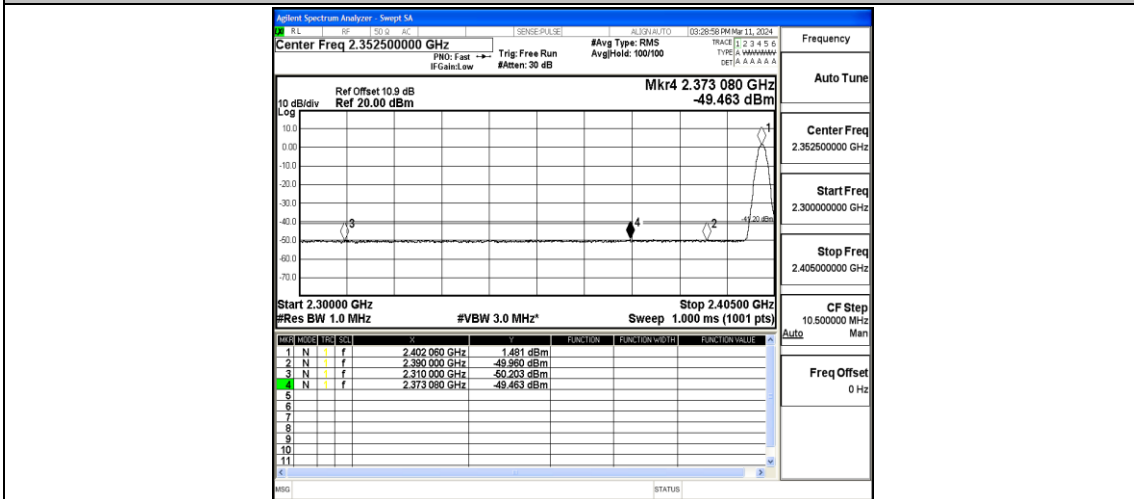
Note:

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.

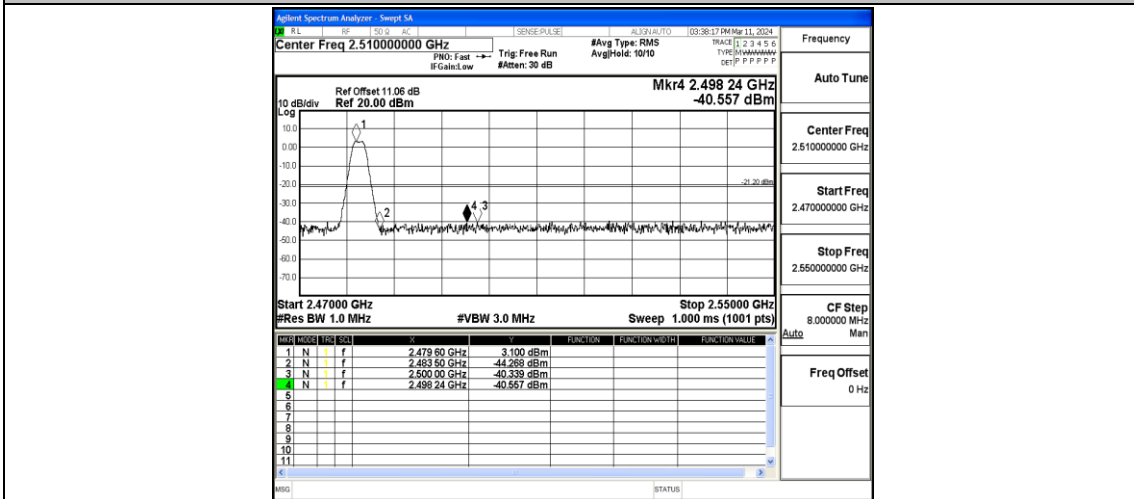
Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2402-PASS



SRD-Ant1-2480-PASS

