

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: K7 Max

FCC ID: 2ASF4-K7MAX

Environmental Conditions

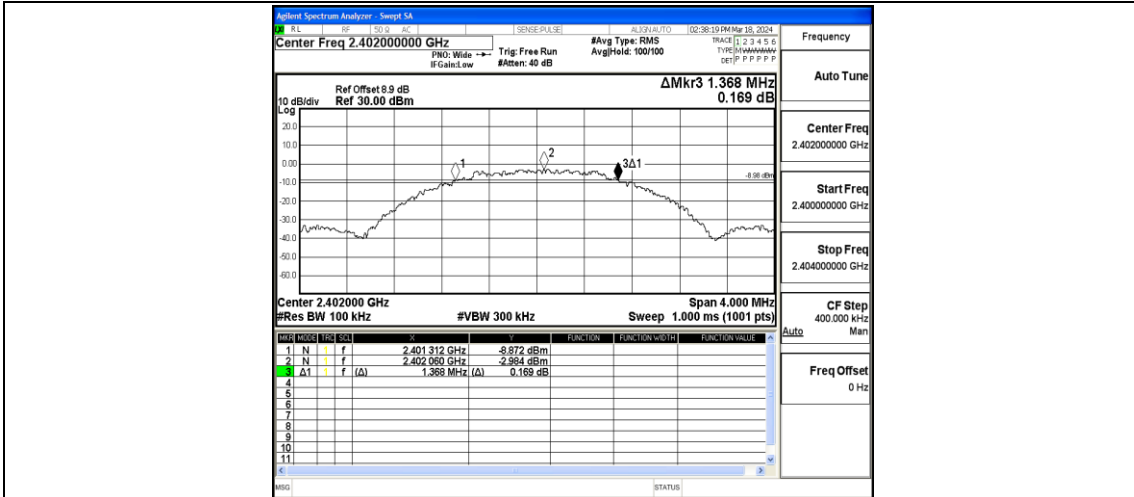
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

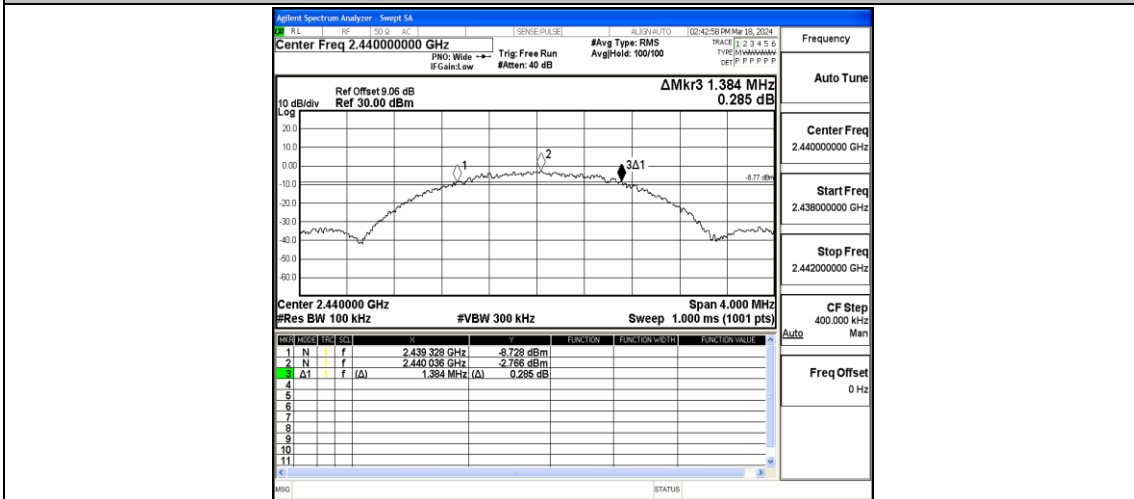
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.368	2401.312	2402.680	0.5	PASS
SRD	Ant1	2440	1.384	2439.328	2440.712	0.5	PASS
SRD	Ant1	2480	1.308	2479.348	2480.656	0.5	PASS

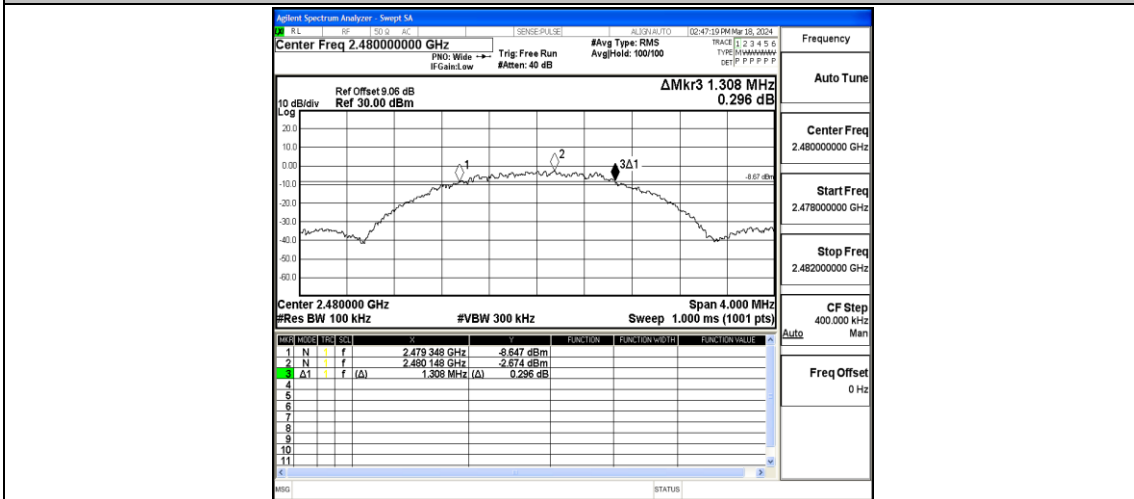
Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



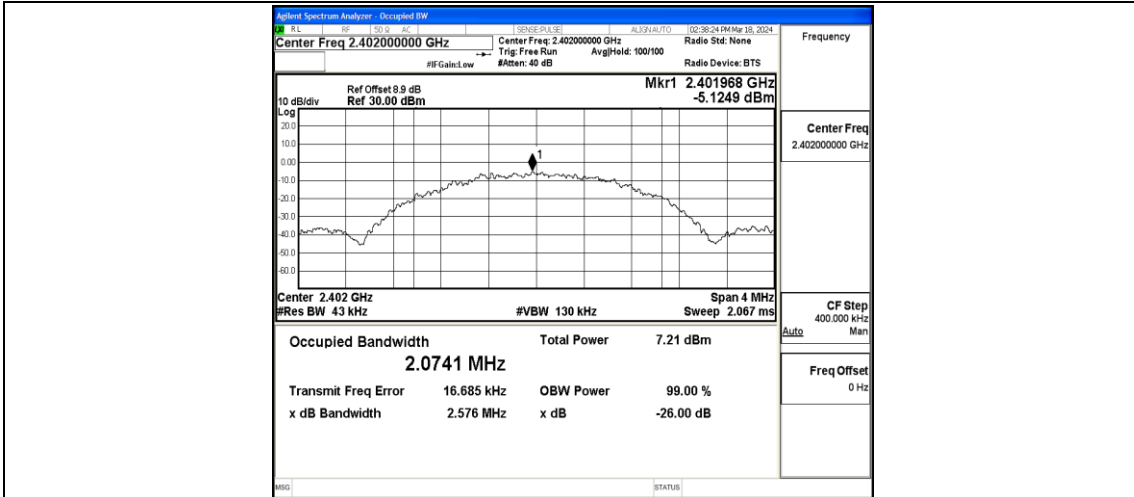
SRD-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

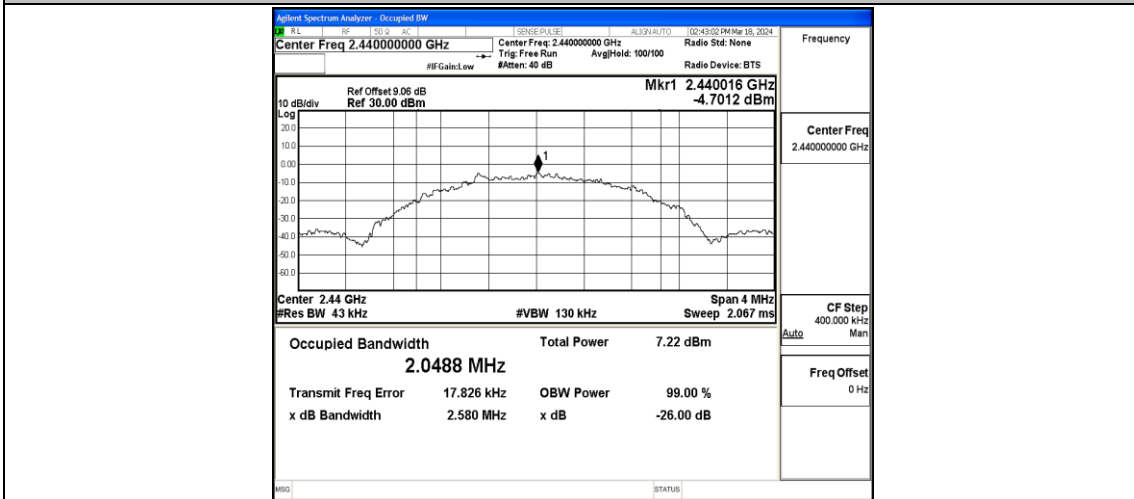
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0741	2400.9796	2403.0537	---	---
SRD	Ant1	2440	2.0488	2438.9934	2441.0422	---	---
SRD	Ant1	2480	2.0535	2478.9913	2481.0448	---	---

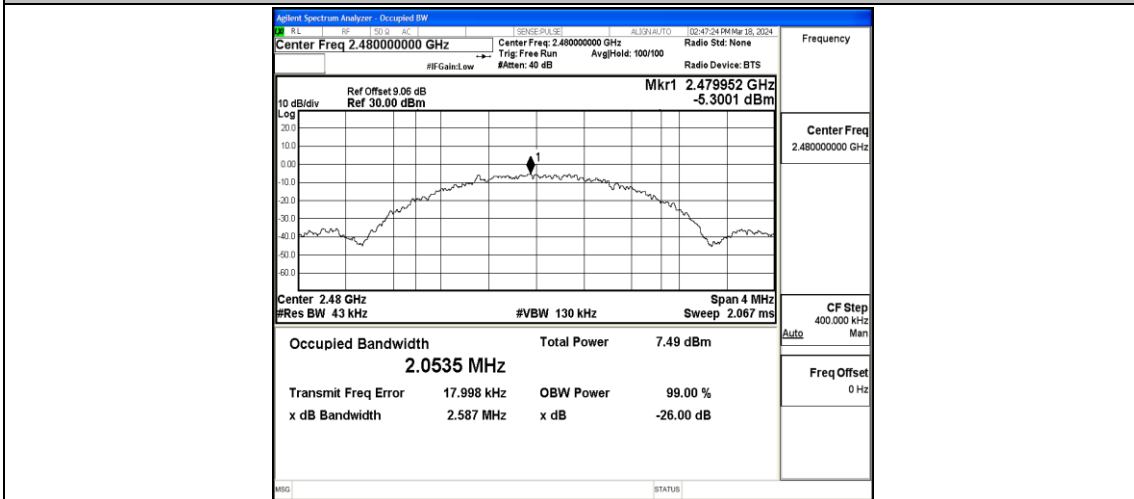
Test Graphs



SRD-Ant1-2402



SRD-Ant1-2440



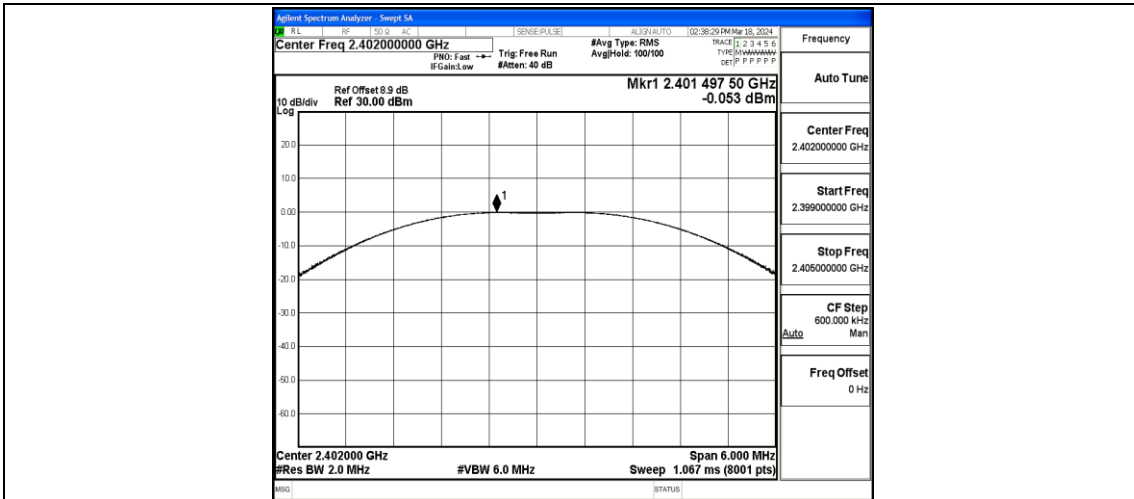
SRD-Ant1-2480

Appendix C: Maximum peak conducted output power

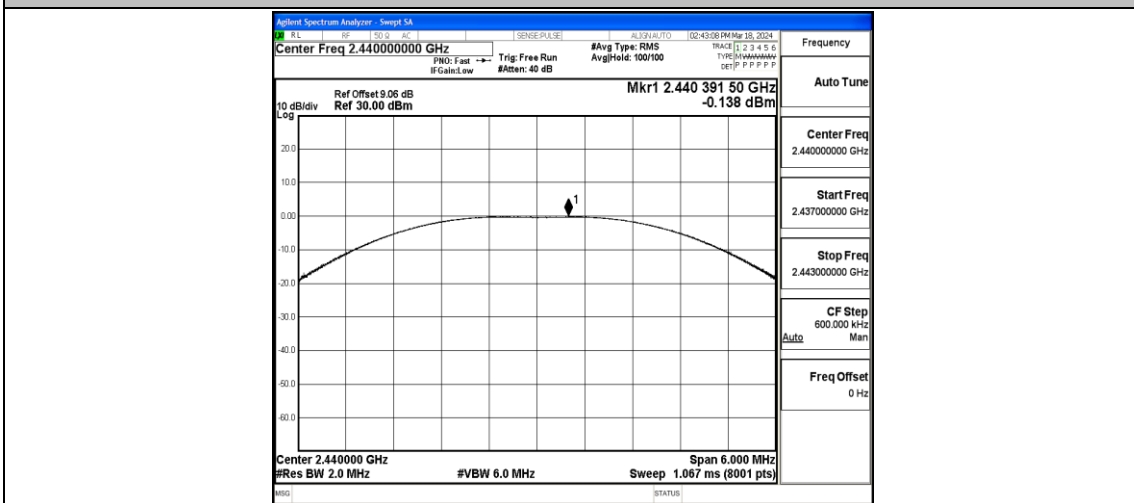
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
SRD	Ant1	2402	-0.05	≤30	PASS
SRD	Ant1	2440	-0.14	≤30	PASS
SRD	Ant1	2480	-0.16	≤30	PASS

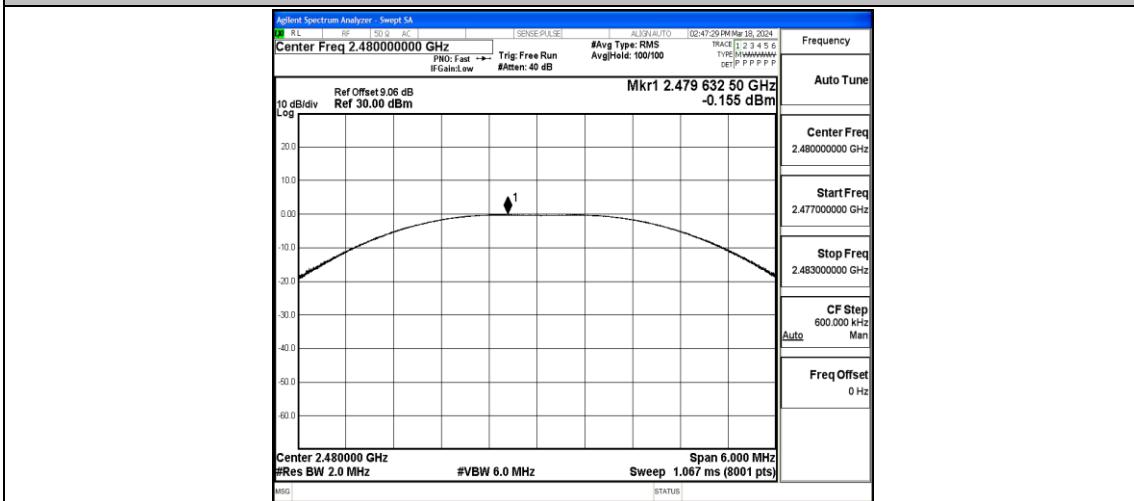
Test Graphs Peak



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



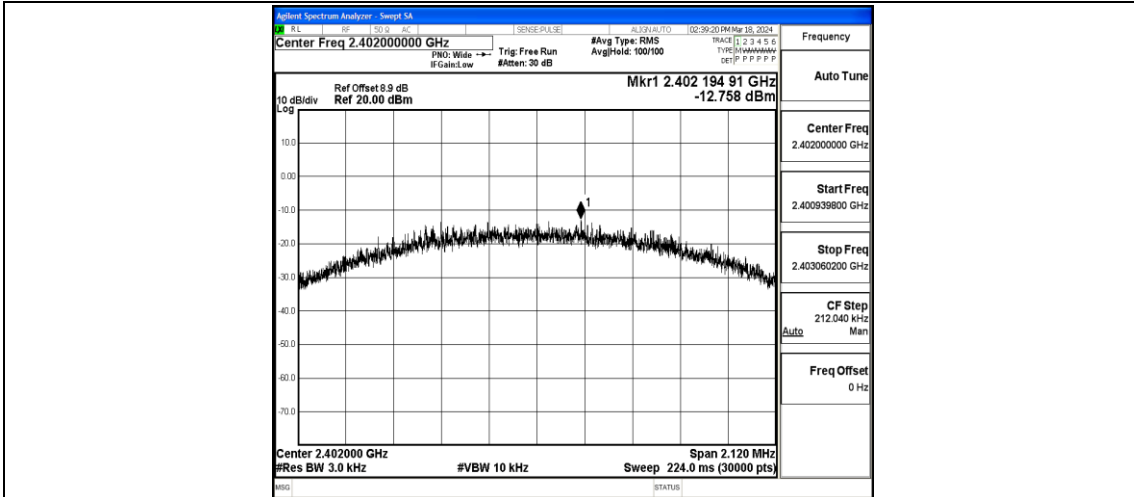
SRD-Ant1-2480-PASS

Appendix D: Maximum peak power spectral density

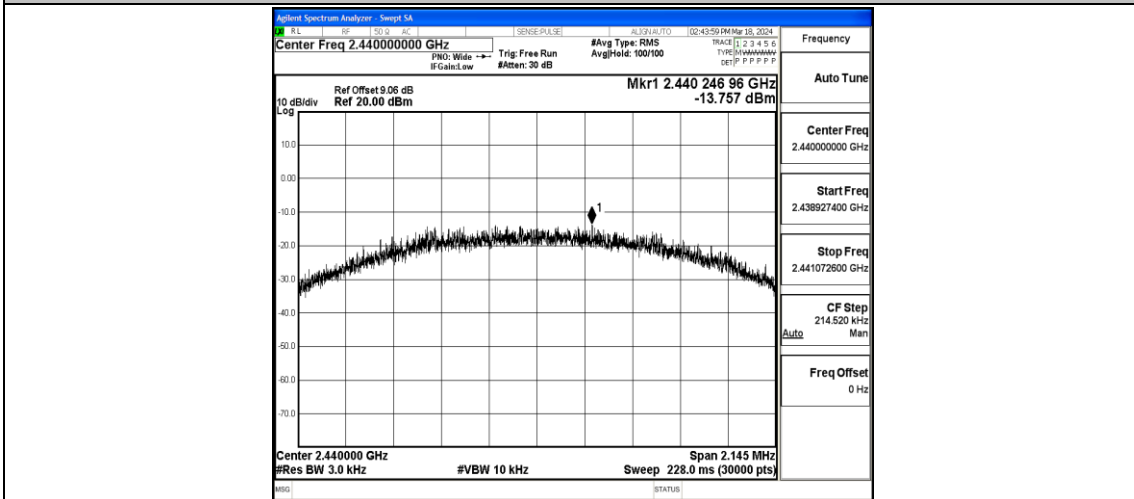
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-12.76	≤8.00	PASS
SRD	Ant1	2440	-13.76	≤8.00	PASS
SRD	Ant1	2480	-12.97	≤8.00	PASS

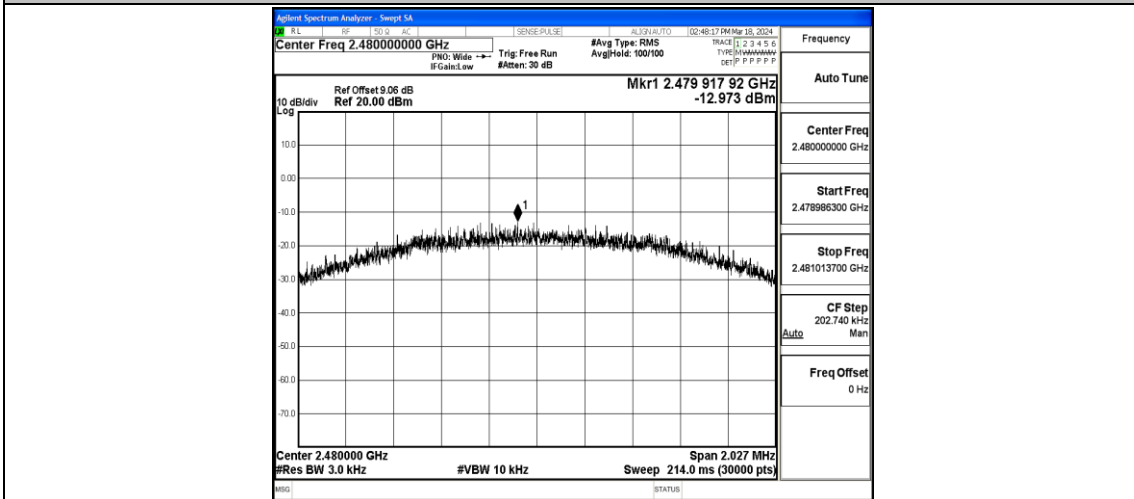
Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



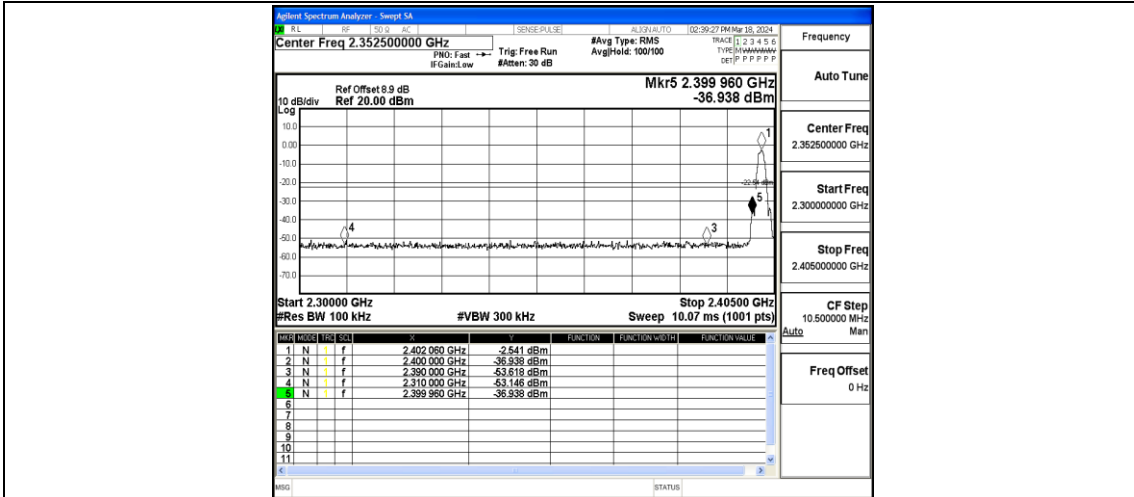
SRD-Ant1-2480-PASS

Appendix E: Band edge measurements

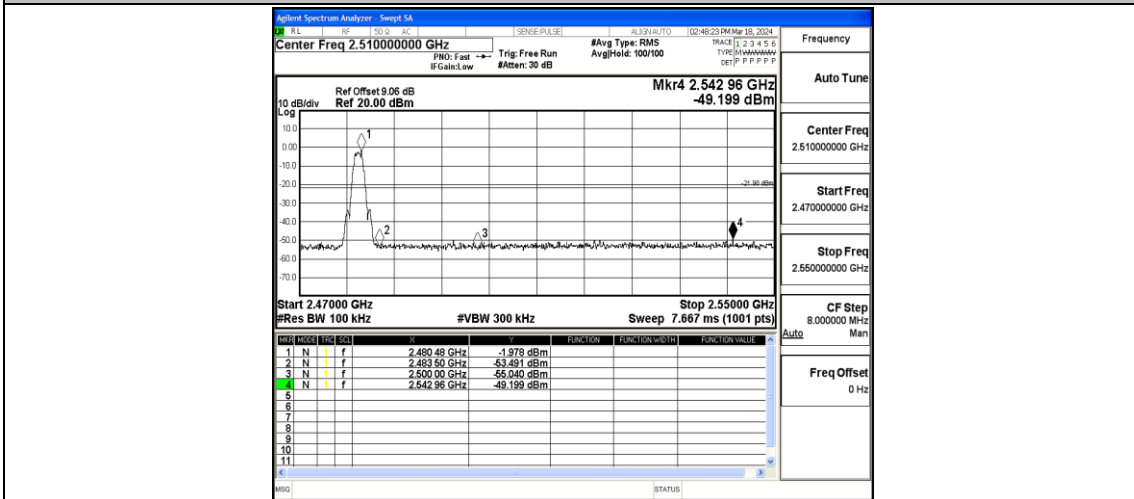
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-2.54	-36.94	≤-22.54	PASS
SRD	Ant1	High	2480	-1.98	-49.2	≤-21.98	PASS

Test Graphs



SRD-Ant1-2402-PASS



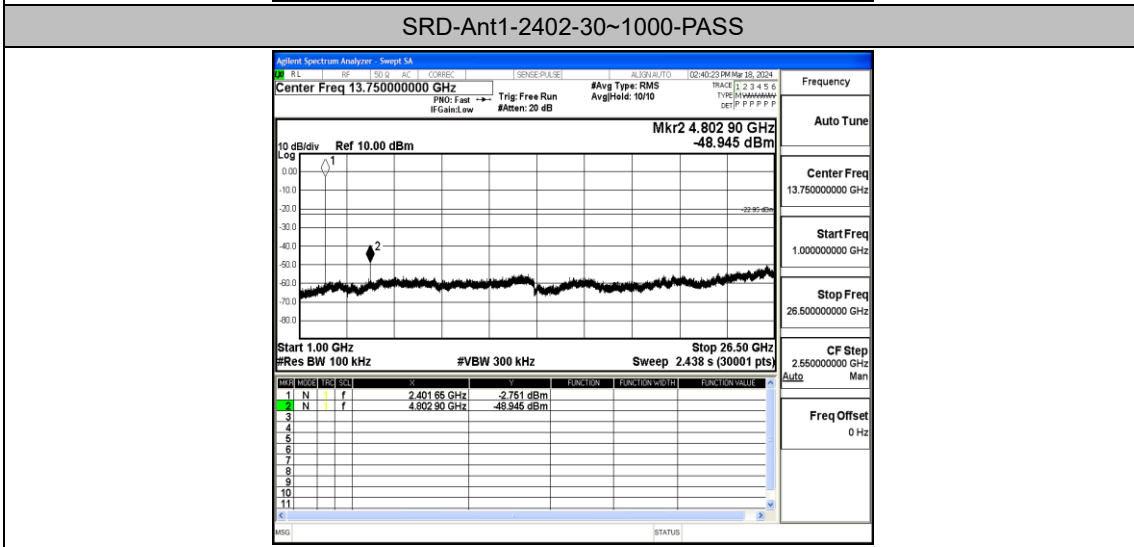
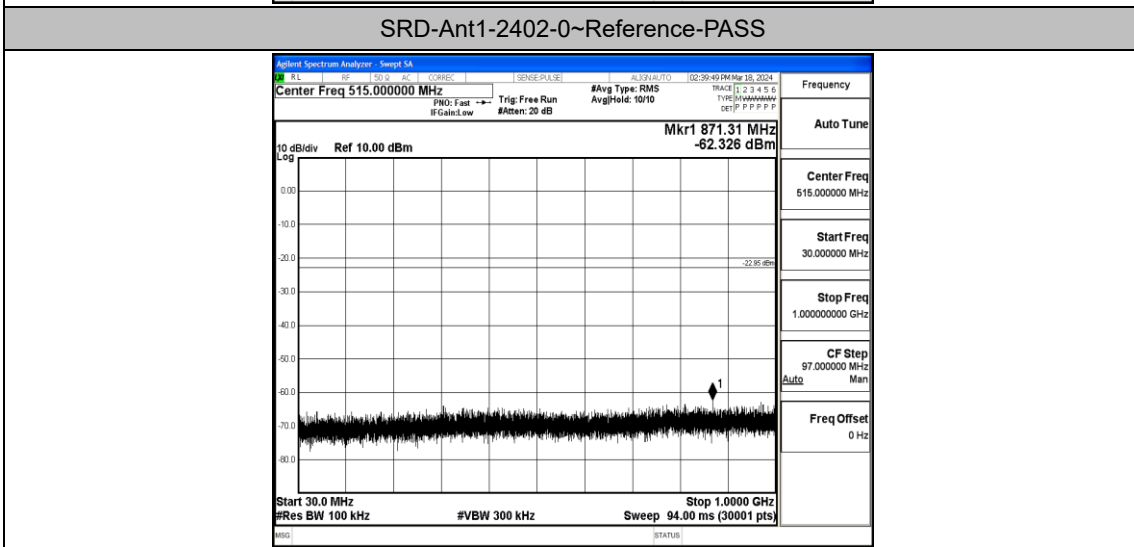
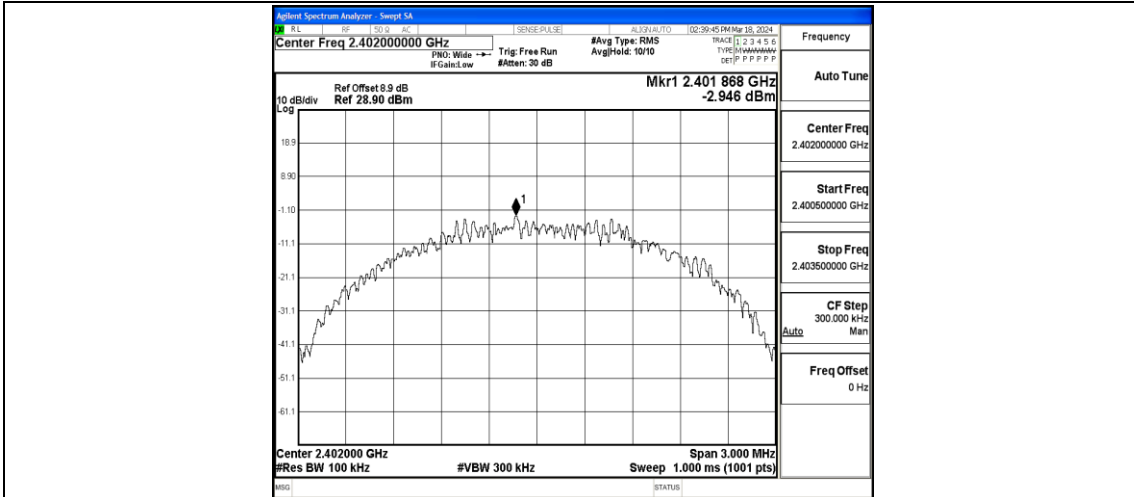
SRD-Ant1-2480-PASS

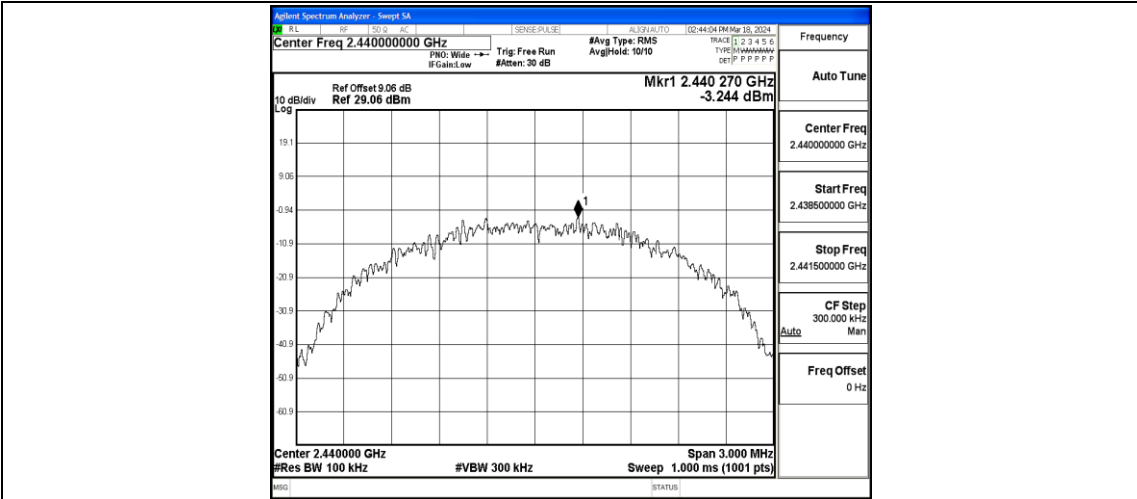
Appendix F: Conducted Spurious Emission

Test Result

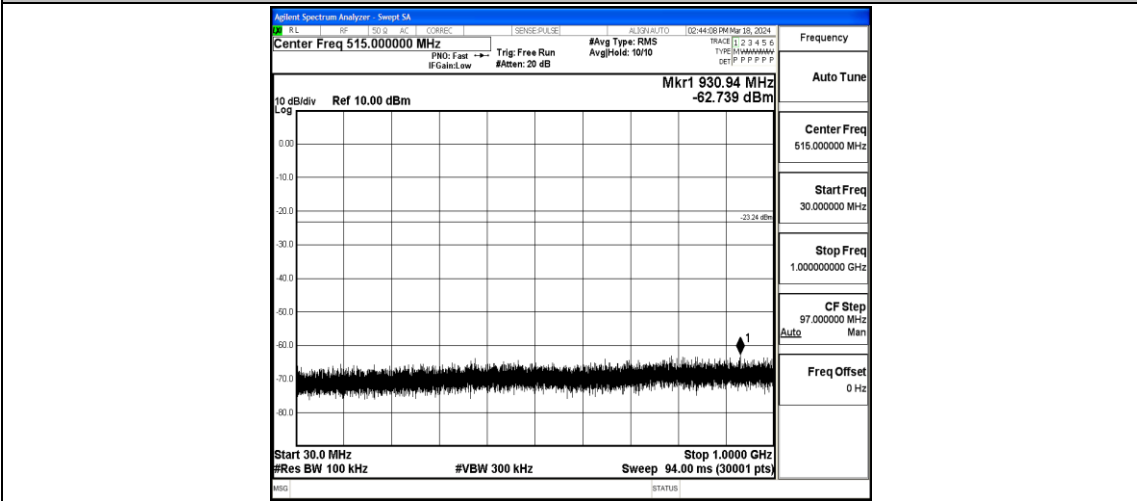
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	-2.95	-2.95	---	PASS
SRD	Ant1	2402	30~1000	-2.95	-62.33	≤-22.95	PASS
SRD	Ant1	2402	1000~26500	-2.95	-48.95	≤-22.95	PASS
SRD	Ant1	2440	0~Reference	-3.24	-3.24	---	PASS
SRD	Ant1	2440	30~1000	-3.24	-62.74	≤-23.24	PASS
SRD	Ant1	2440	1000~26500	-3.24	-48.13	≤-23.24	PASS
SRD	Ant1	2480	0~Reference	-2.88	-2.88	---	PASS
SRD	Ant1	2480	30~1000	-2.88	-62.75	≤-22.88	PASS
SRD	Ant1	2480	1000~26500	-2.88	-49.36	≤-22.88	PASS

Test Graphs

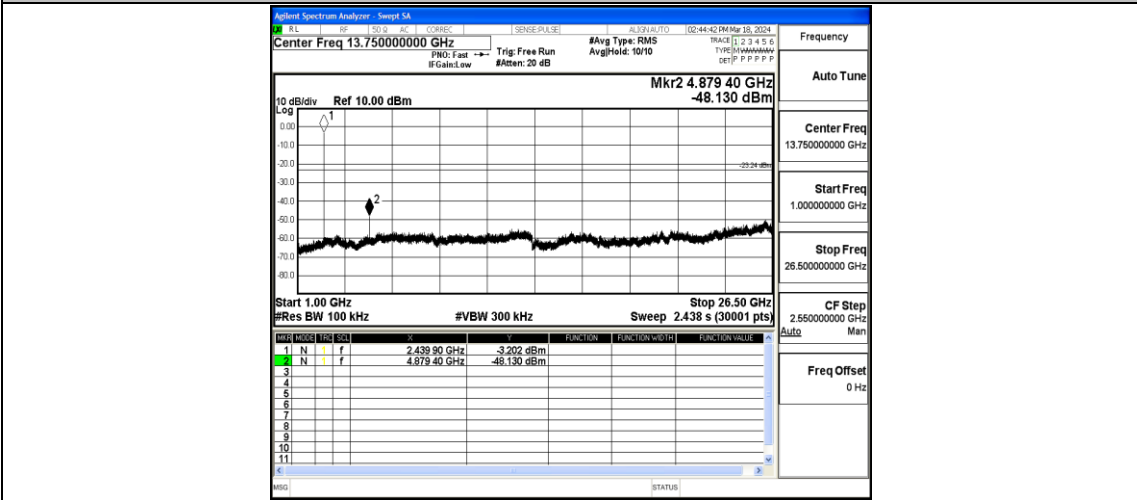




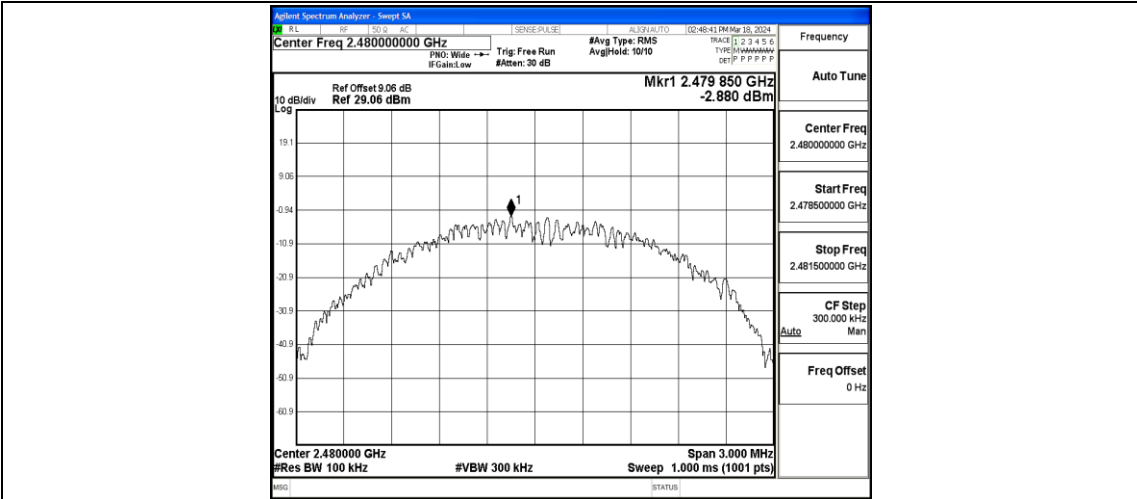
SRD-Ant1-2440-0~Reference-PASS



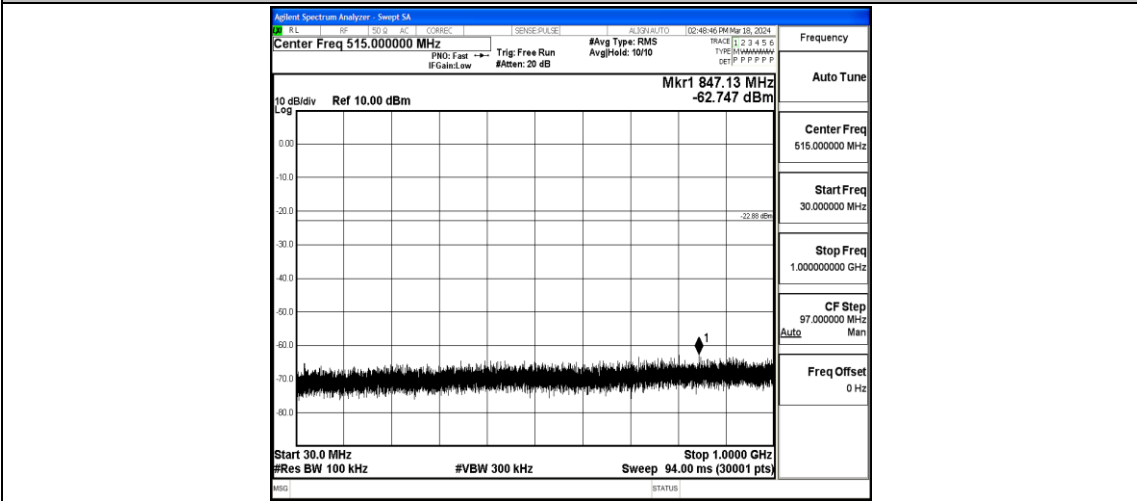
SRD-Ant1-2440-30~1000-PASS



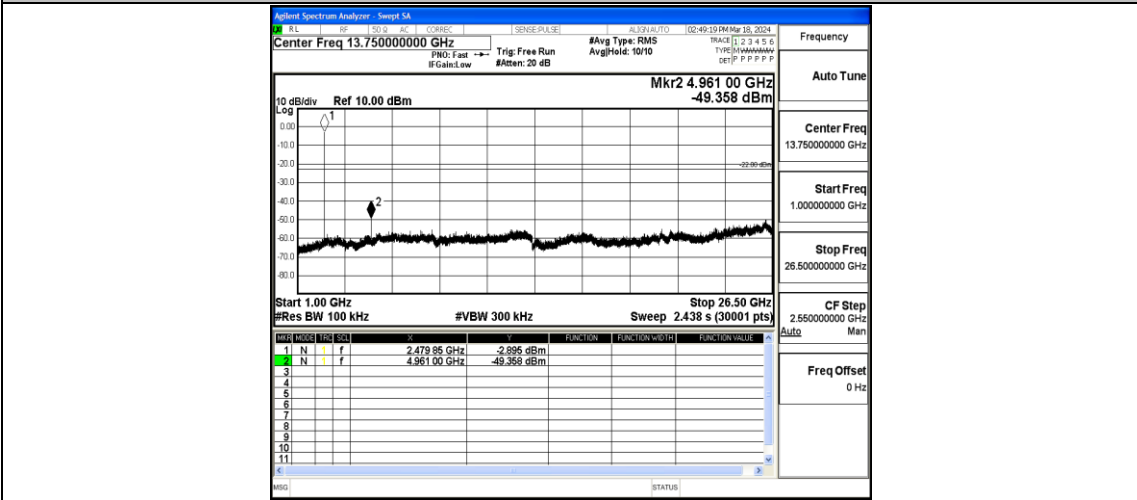
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



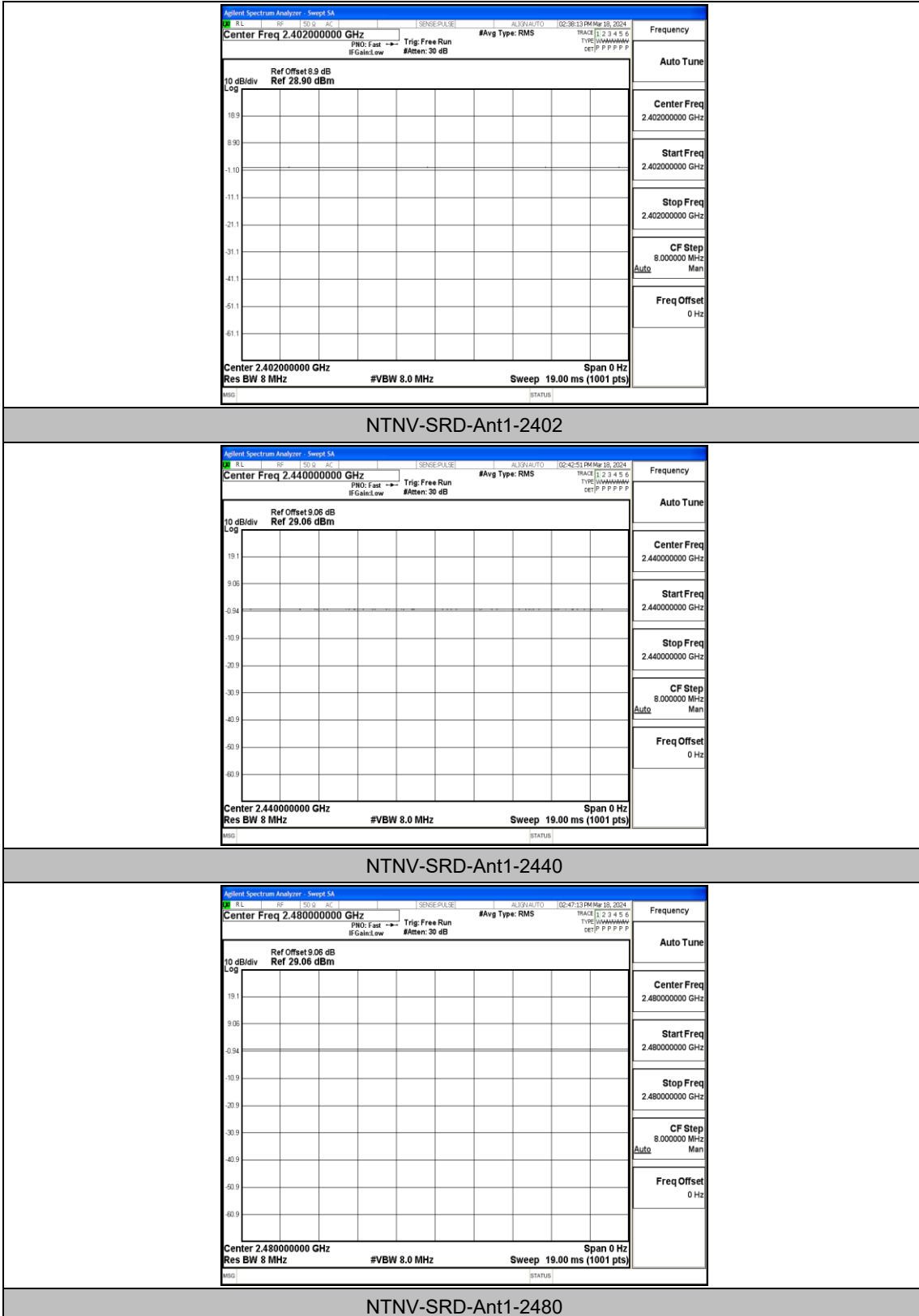
SRD-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	19.00	19.00	100
BLE_1M	Ant1	2440	19.00	19.00	100
BLE_1M	Ant1	2480	19.00	19.00	100

Test Graphs



Appendix H: Emissions in Restricted Bands

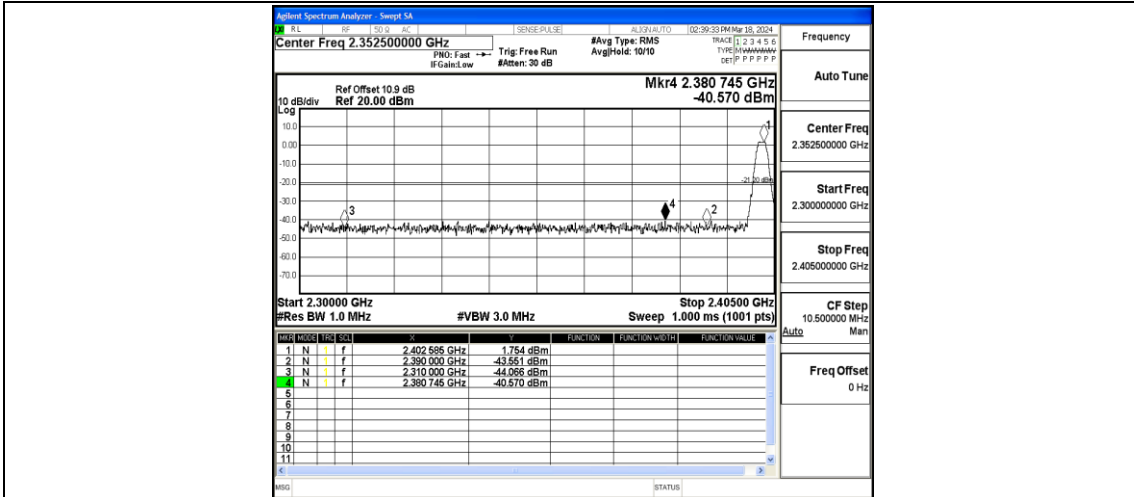
Test Result

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	-43.55	≤-21.20	51.65	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-44.07	≤-21.20	51.13	≤74	PASS
SRD	Ant1	Low	2402	Peak	2380.745	-40.57	≤-21.20	54.63	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-50.49	≤-41.20	44.71	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-50.09	≤-41.20	45.11	≤54	PASS
SRD	Ant1	Low	2402	AV	2387.570	-49.59	≤-41.20	45.61	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-43.78	≤-21.20	51.42	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-42.8	≤-21.20	52.40	≤74	PASS
SRD	Ant1	High	2480	Peak	2490.000	-38.72	≤-21.20	56.48	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-48.82	≤-41.20	46.38	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-50.1	≤-41.20	45.10	≤54	PASS
SRD	Ant1	High	2480	AV	2483.520	-48.82	≤-41.20	46.38	≤54	PASS

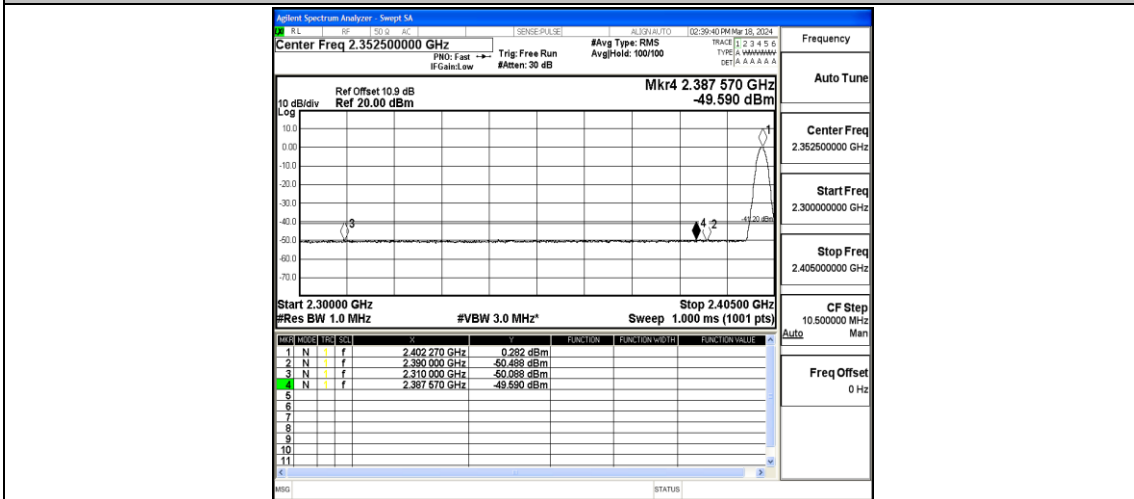
Note:

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.

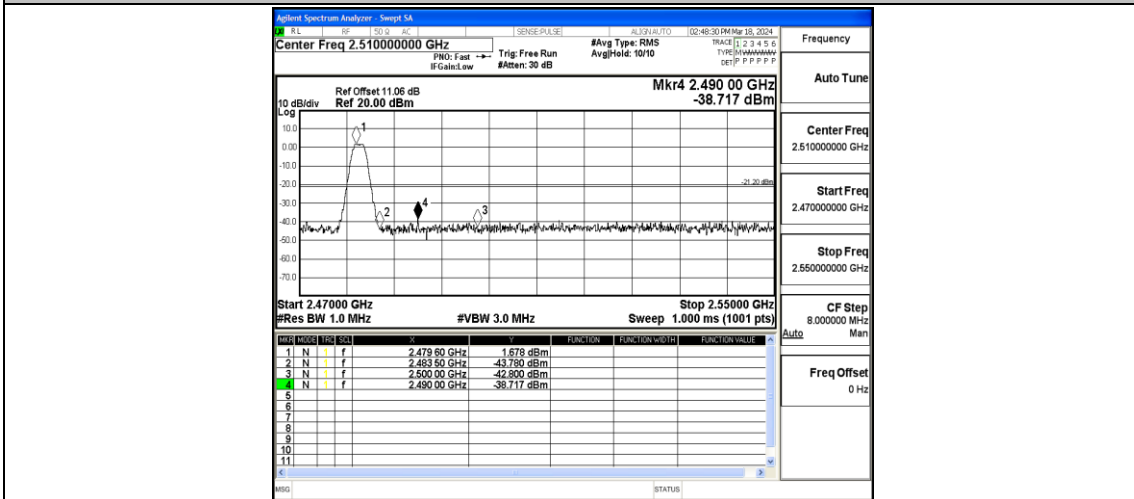
Test Graphs



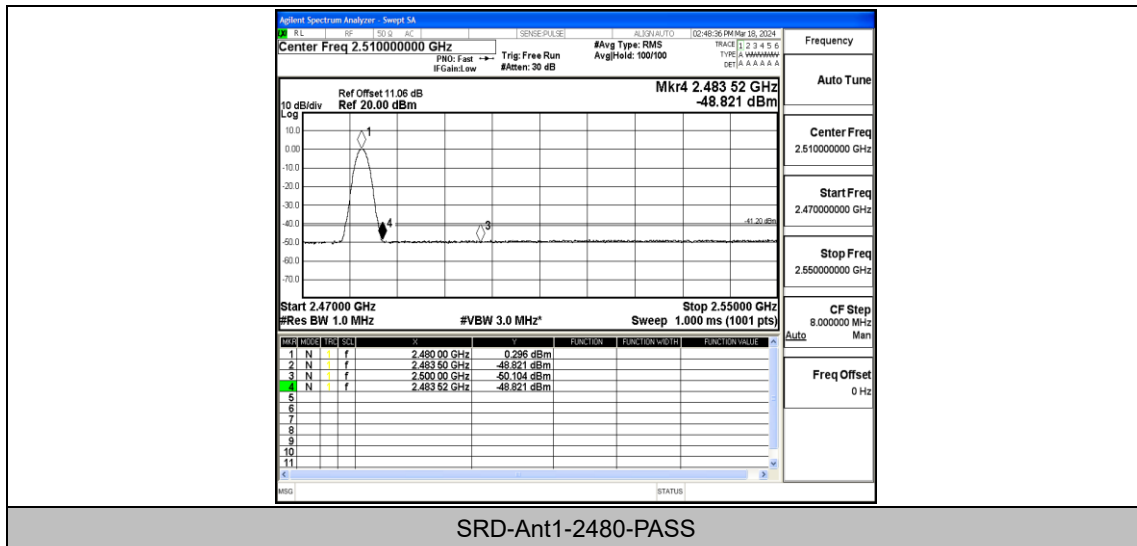
SRD-Ant1-2402-PASS



SRD-Ant1-2402-PASS



SRD-Ant1-2480-PASS



SRD-Ant1-2480-PASS