

## Appendix Test Data for SRD (Conducted Measurement)

**Product Name: Wireless Mechanical Keyboard**

**Trade Mark: Keychron**

**Test Model: Q6 MAX**

**FCC ID: 2ASF4-Q6MAX**

### Environmental Conditions

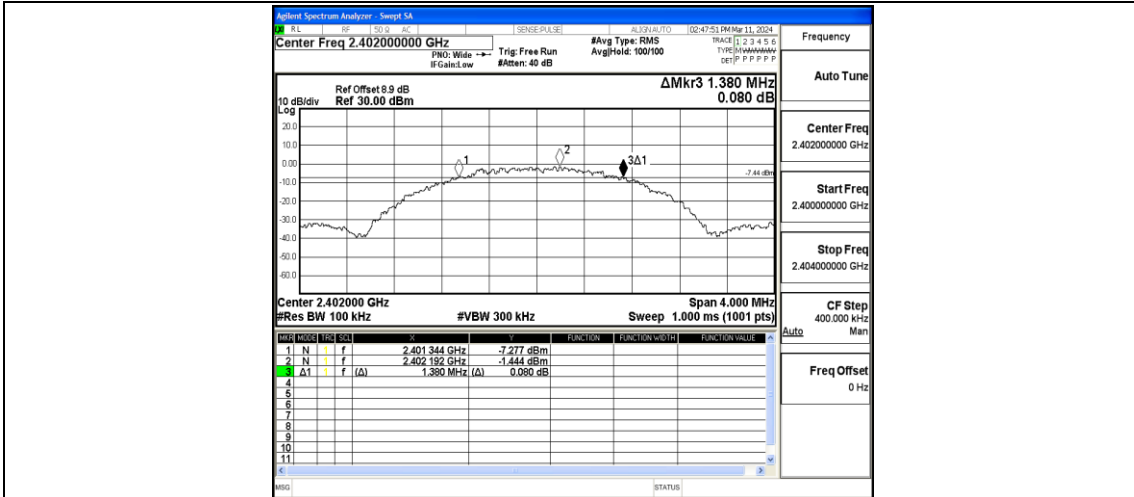
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: DTS Bandwidth

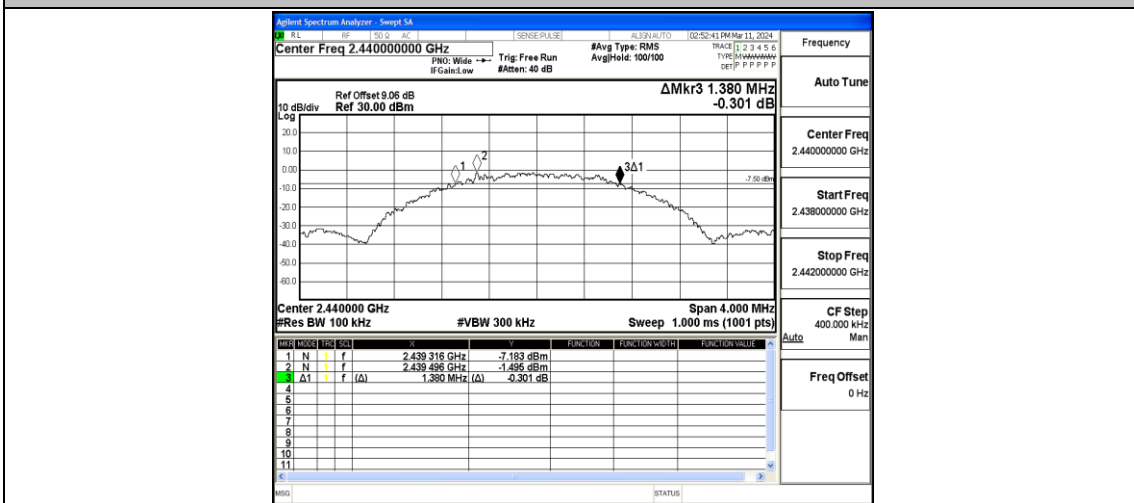
### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.380	2401.344	2402.724	0.5	PASS
SRD	Ant1	2440	1.380	2439.316	2440.696	0.5	PASS
SRD	Ant1	2480	1.248	2479.416	2480.664	0.5	PASS

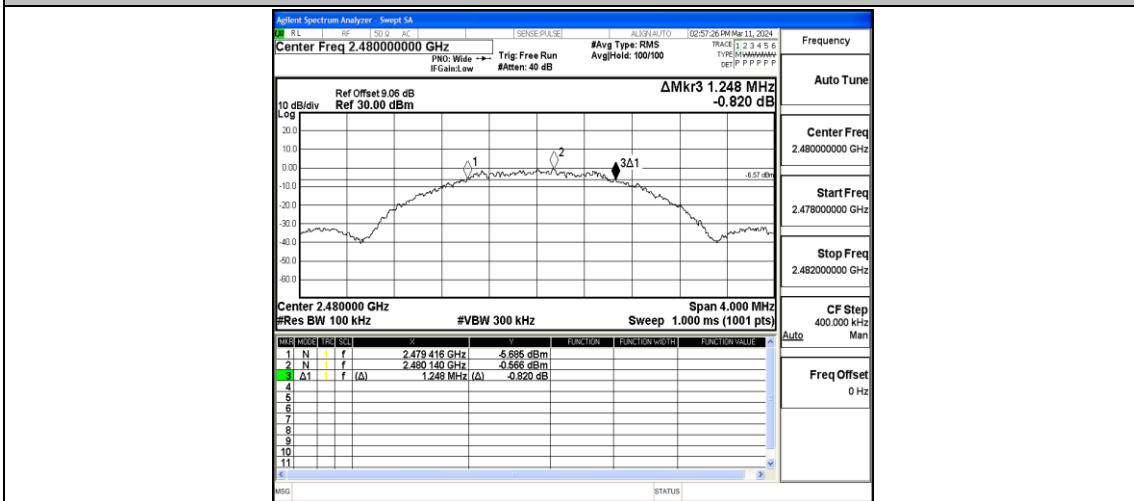
### Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



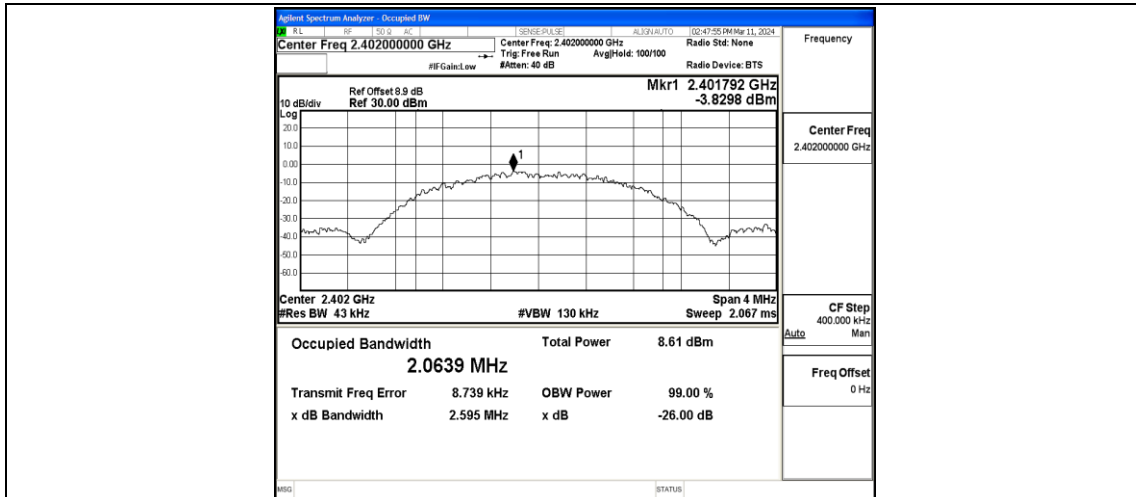
SRD-Ant1-2480-PASS

## Appendix B: Occupied Channel Bandwidth

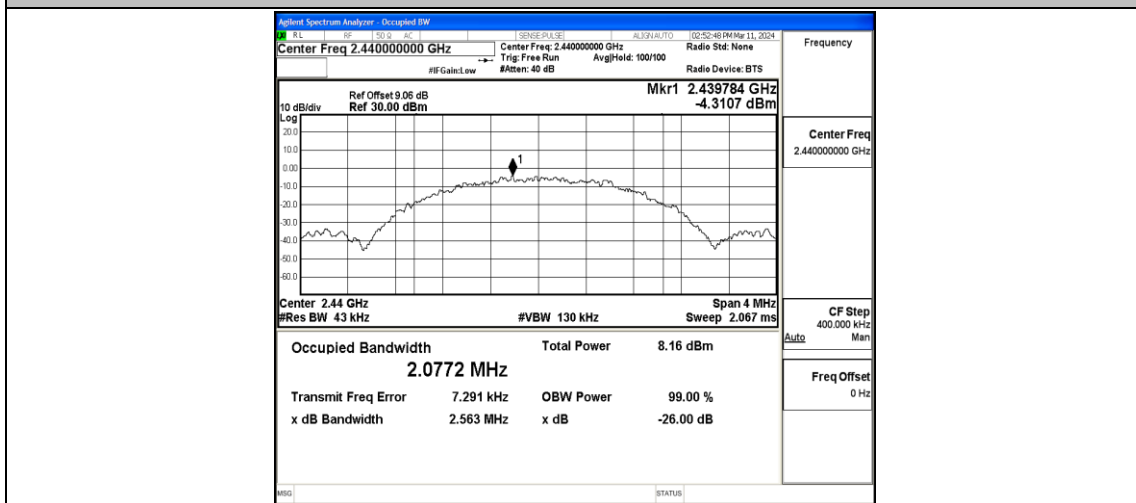
### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0639	2400.9768	2403.0407	---	---
SRD	Ant1	2440	2.0772	2438.9687	2441.0459	---	---
SRD	Ant1	2480	2.0684	2478.9715	2481.0399	---	---

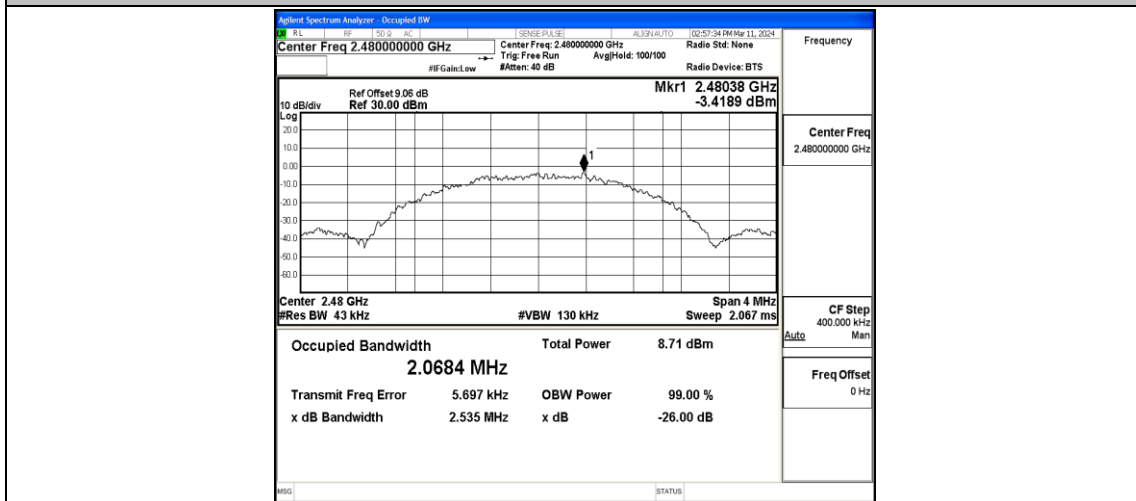
### Test Graphs



SRD-Ant1-2402



SRD-Ant1-2440



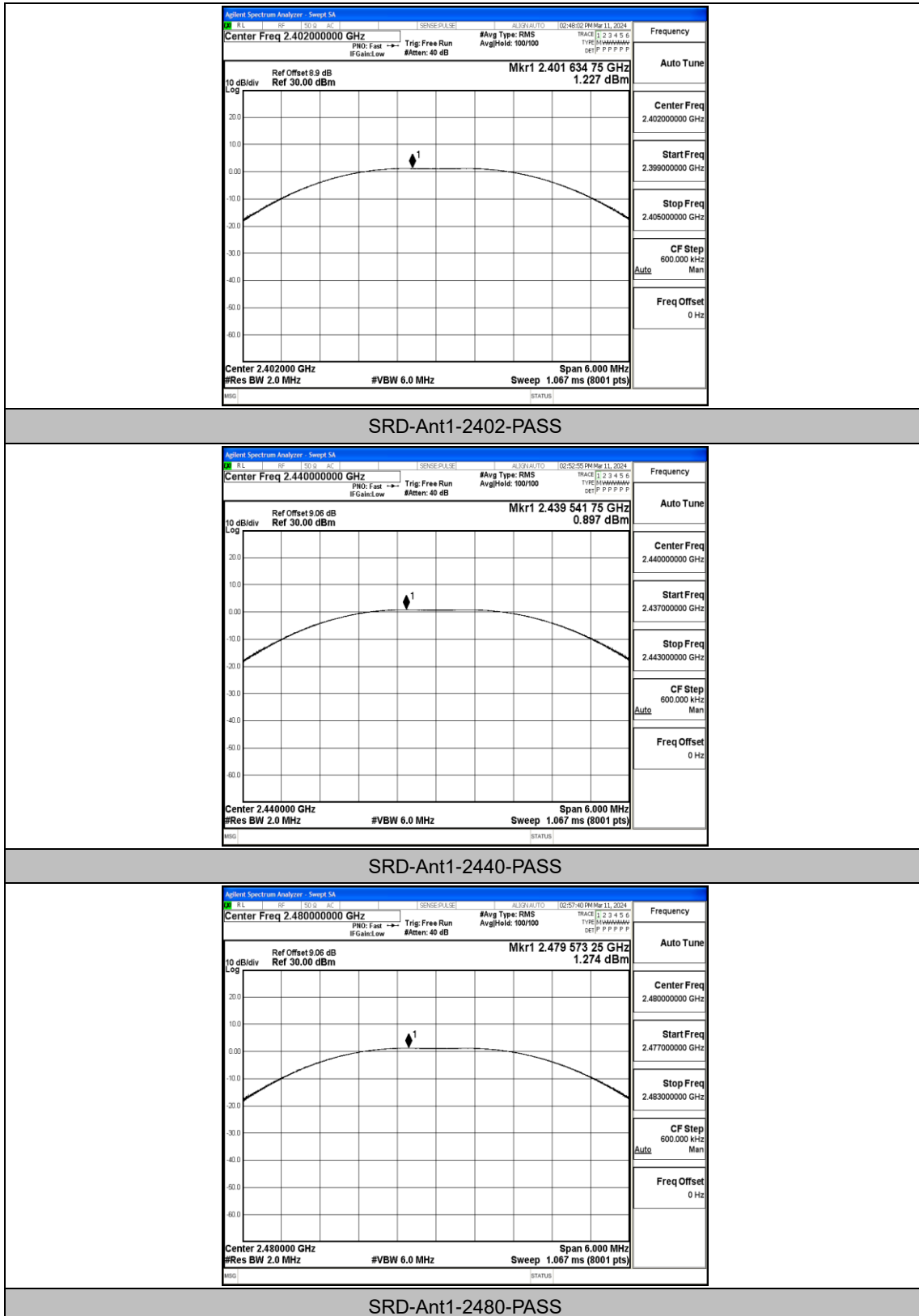
SRD-Ant1-2480

## 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	1.23	≤30	PASS
SRD	Ant1	2440	0.90	≤30	PASS
SRD	Ant1	2480	1.27	≤30	PASS

### Test Graphs Peak

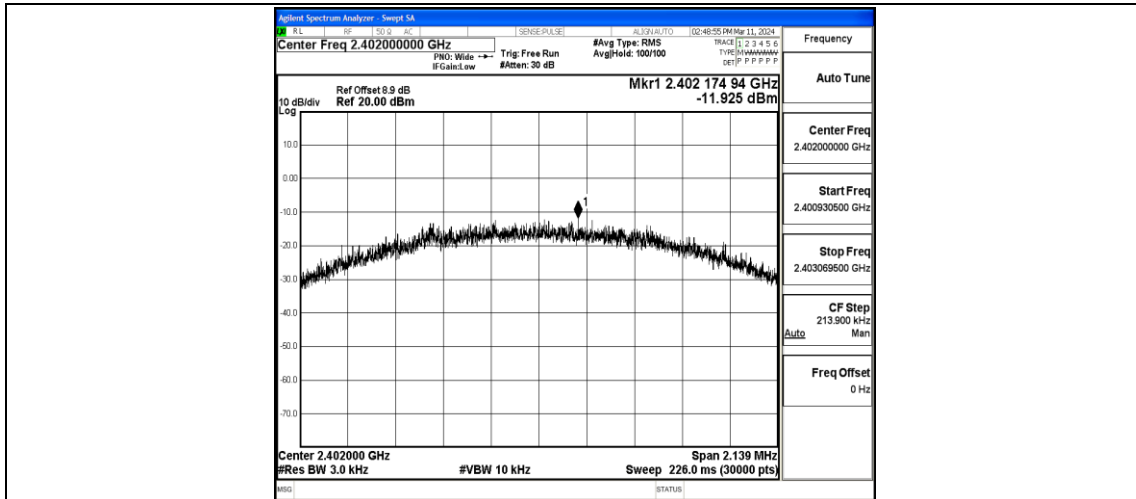


## Appendix D: Maximum peak power spectral density

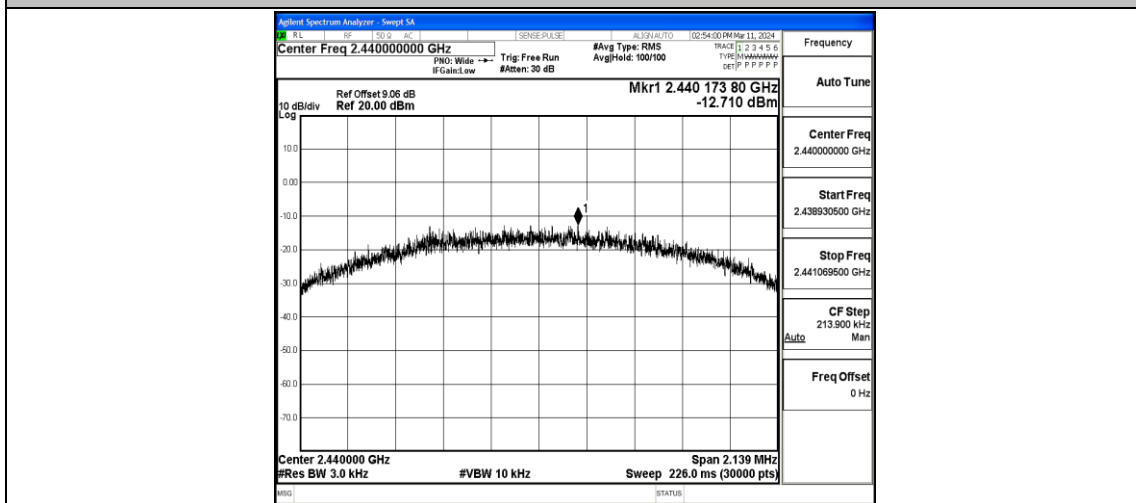
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-11.93	≤8.00	PASS
SRD	Ant1	2440	-12.71	≤8.00	PASS
SRD	Ant1	2480	-9.99	≤8.00	PASS

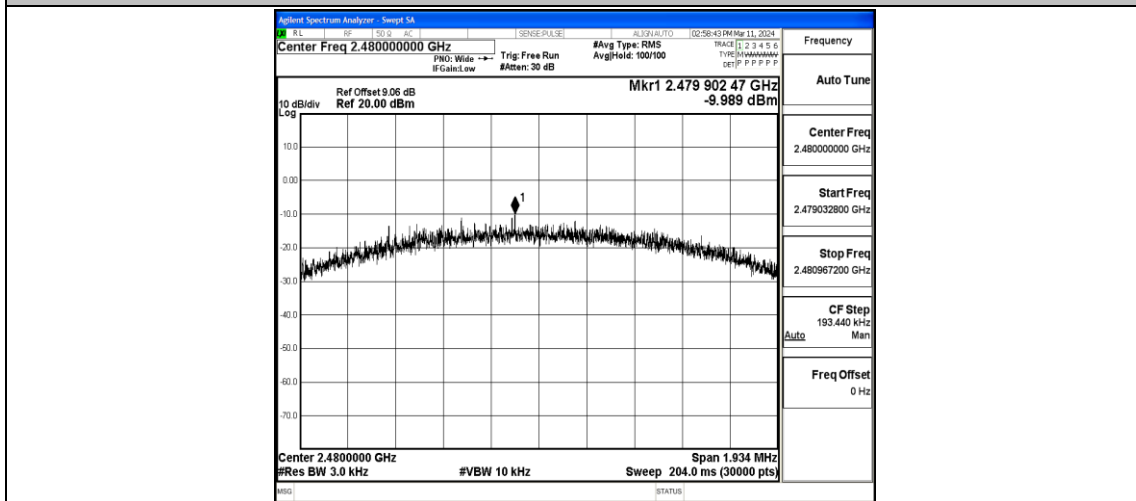
### Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2440-PASS



SRD-Ant1-2480-PASS

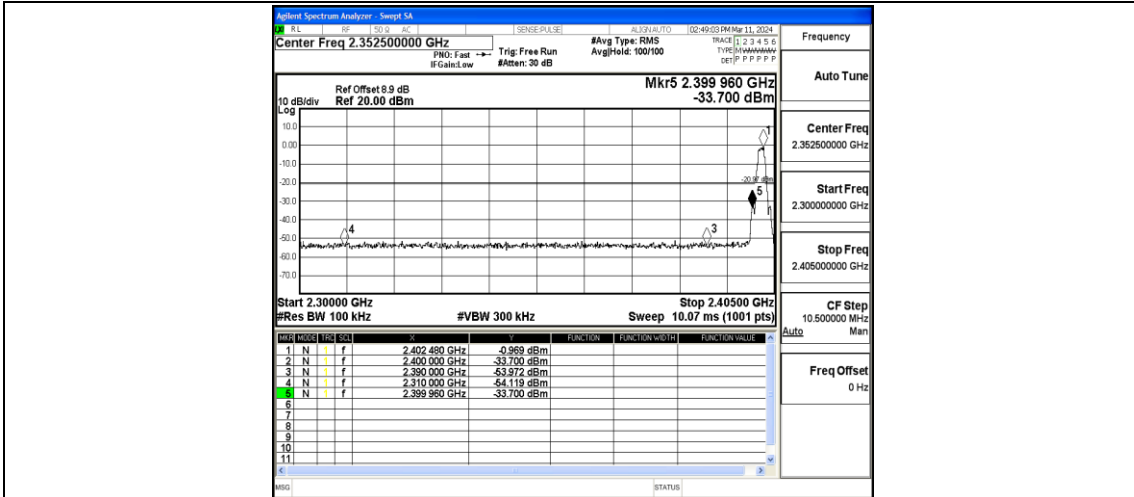


## Appendix E: Band edge measurements

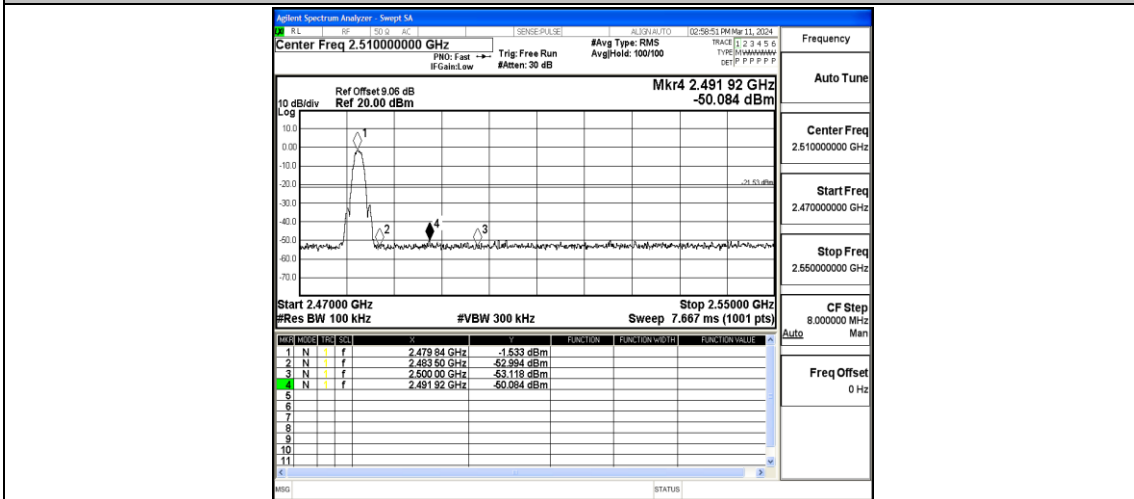
### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-0.97	-33.7	≤-20.97	PASS
SRD	Ant1	High	2480	-1.53	-50.08	≤-21.53	PASS

### Test Graphs



SRD-Ant1-2402-PASS



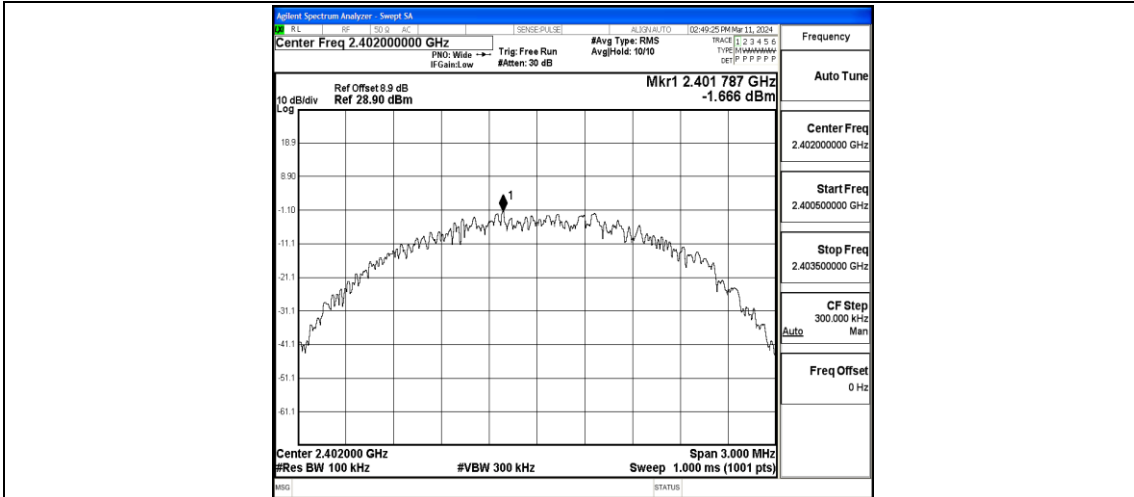
SRD-Ant1-2480-PASS

## Appendix F: Conducted Spurious Emission

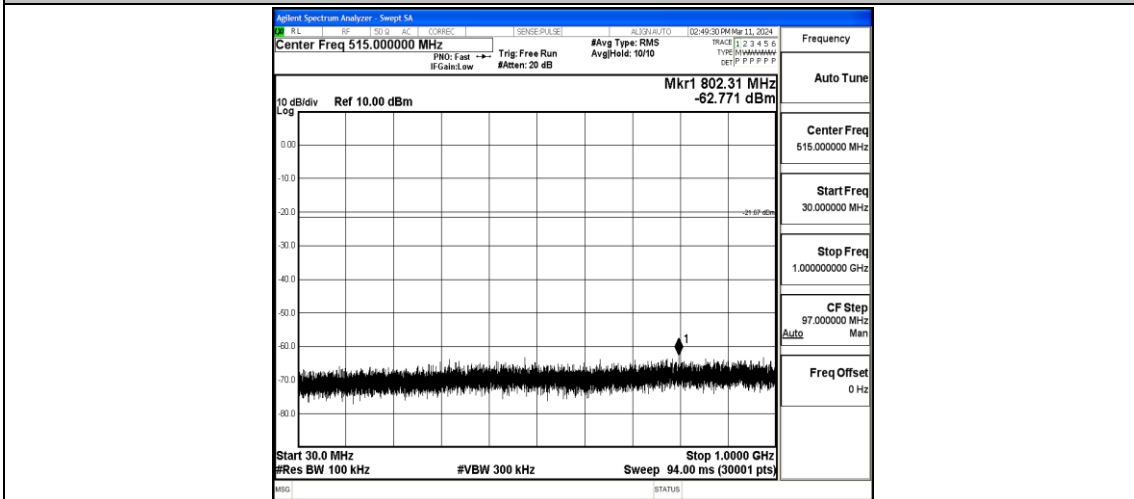
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0~Reference	-1.67	-1.67	---	PASS
SRD	Ant1	2402	30~1000	-1.67	-62.77	≤-21.67	PASS
SRD	Ant1	2402	1000~26500	-1.67	-43.52	≤-21.67	PASS
SRD	Ant1	2440	0~Reference	-1.75	-1.75	---	PASS
SRD	Ant1	2440	30~1000	-1.75	-62.6	≤-21.75	PASS
SRD	Ant1	2440	1000~26500	-1.75	-43.97	≤-21.75	PASS
SRD	Ant1	2480	0~Reference	-2.49	-2.49	---	PASS
SRD	Ant1	2480	30~1000	-2.49	-63.08	≤-22.49	PASS
SRD	Ant1	2480	1000~26500	-2.49	-44.37	≤-22.49	PASS

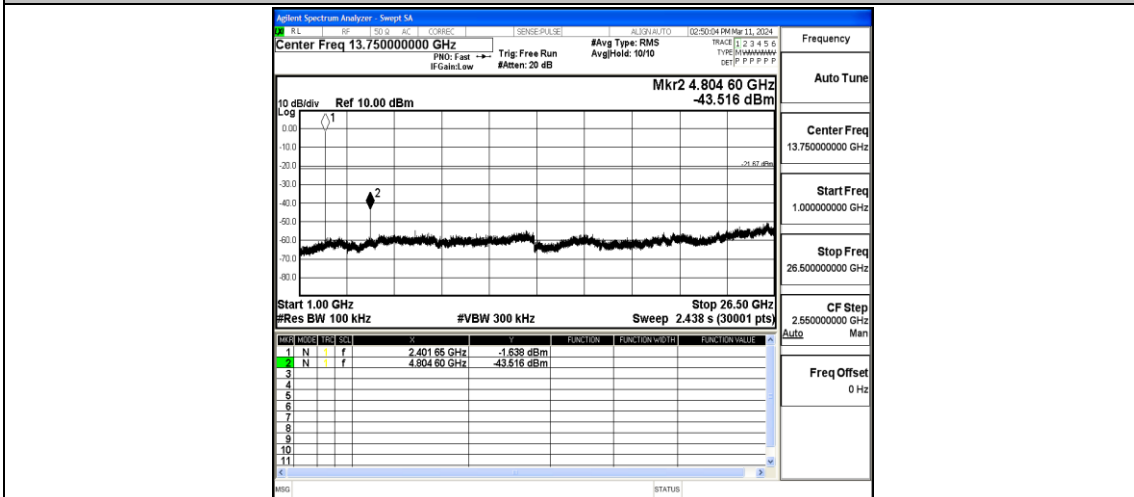
### Test Graphs



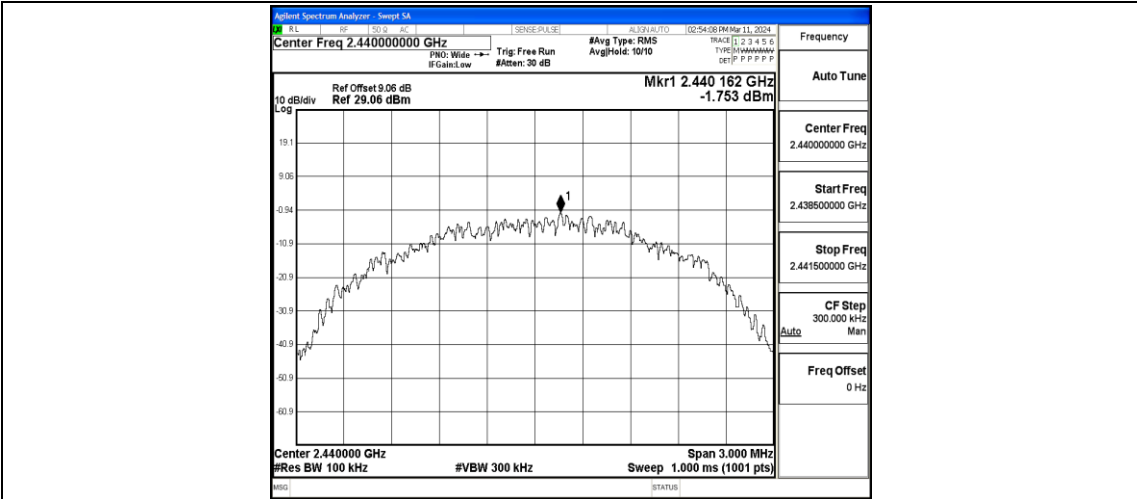
SRD-Ant1-2402-0~Reference-PASS



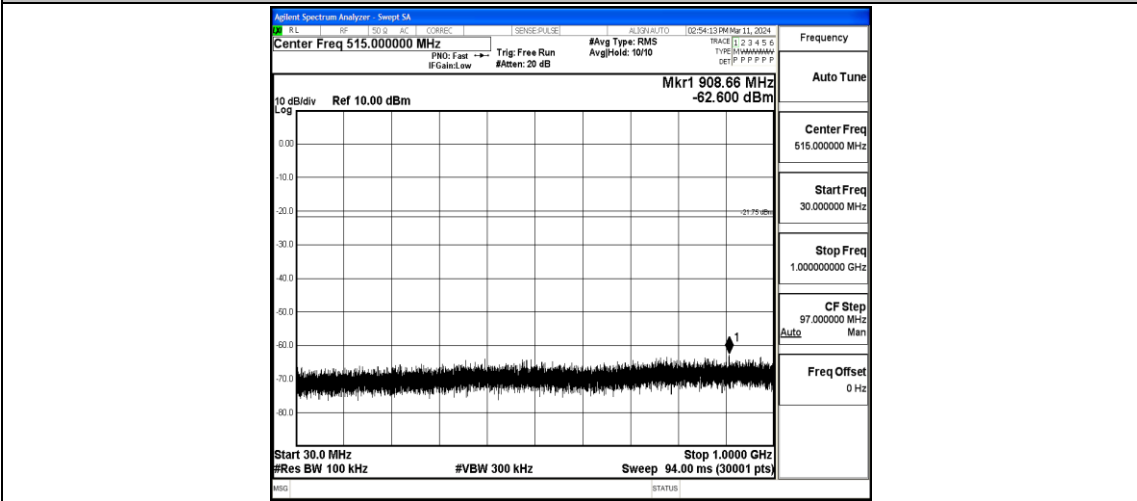
SRD-Ant1-2402-30~1000-PASS



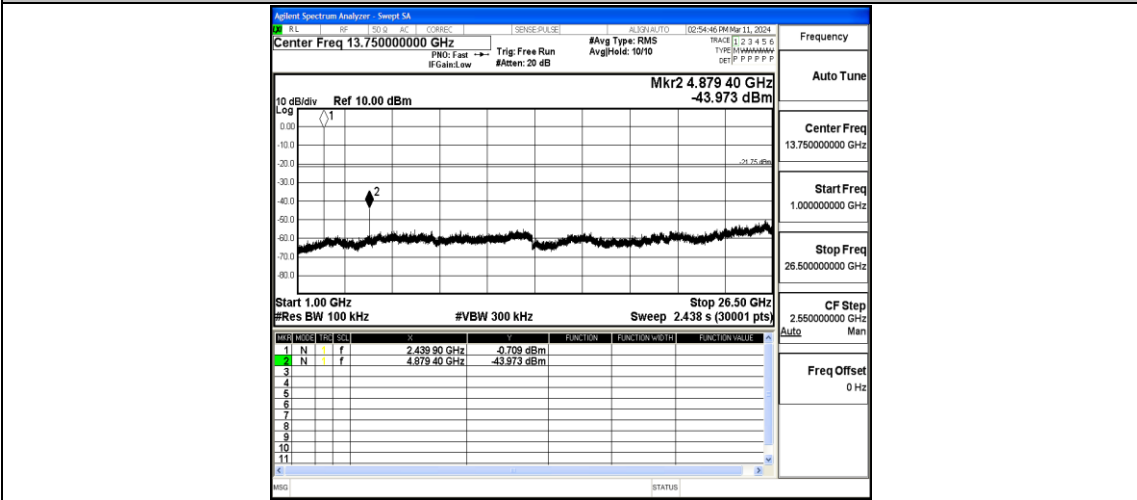
SRD-Ant1-2402-1000~26500-PASS



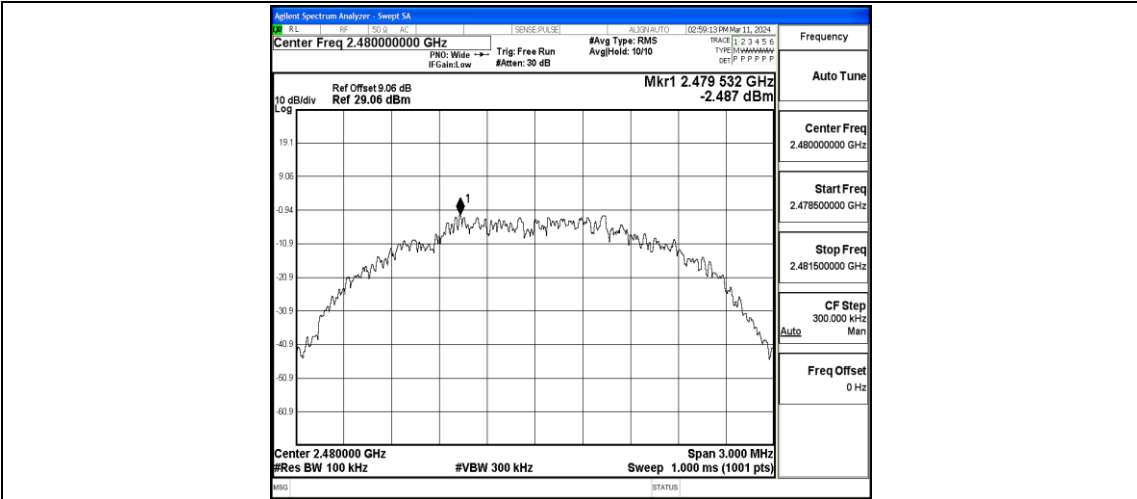
SRD-Ant1-2440-0~Reference-PASS



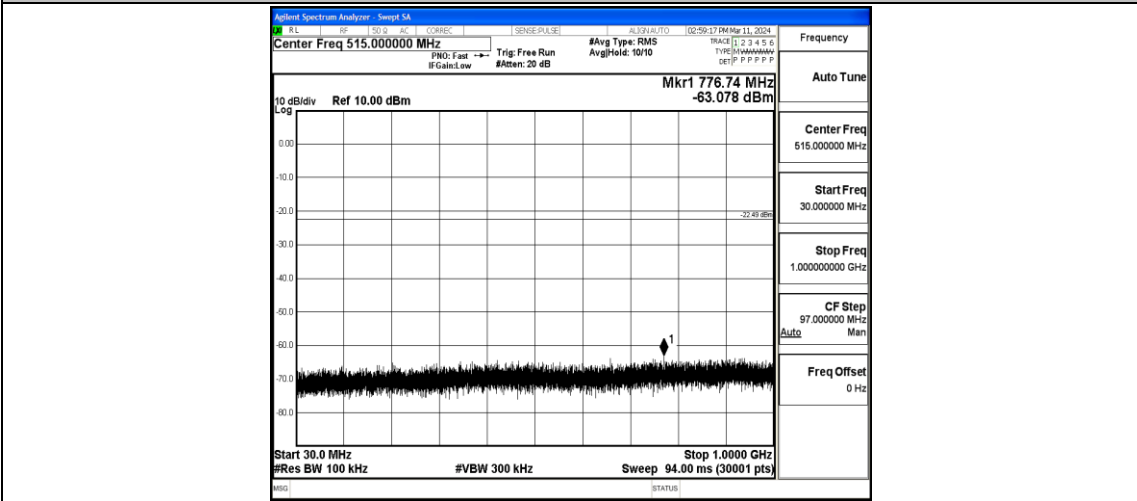
SRD-Ant1-2440-30~1000-PASS



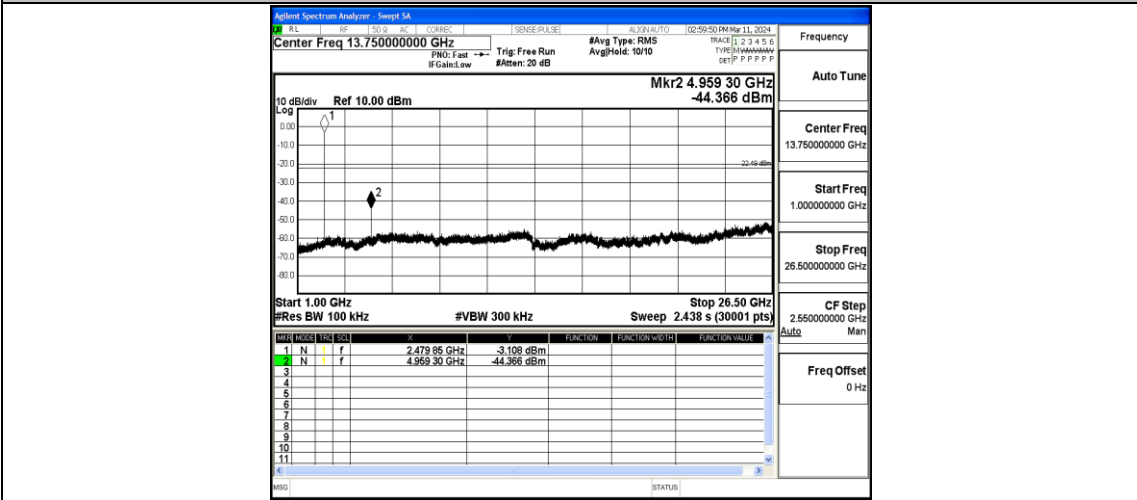
SRD-Ant1-2440-1000~26500-PASS



SRD-Ant1-2480-0~Reference-PASS



SRD-Ant1-2480-30~1000-PASS



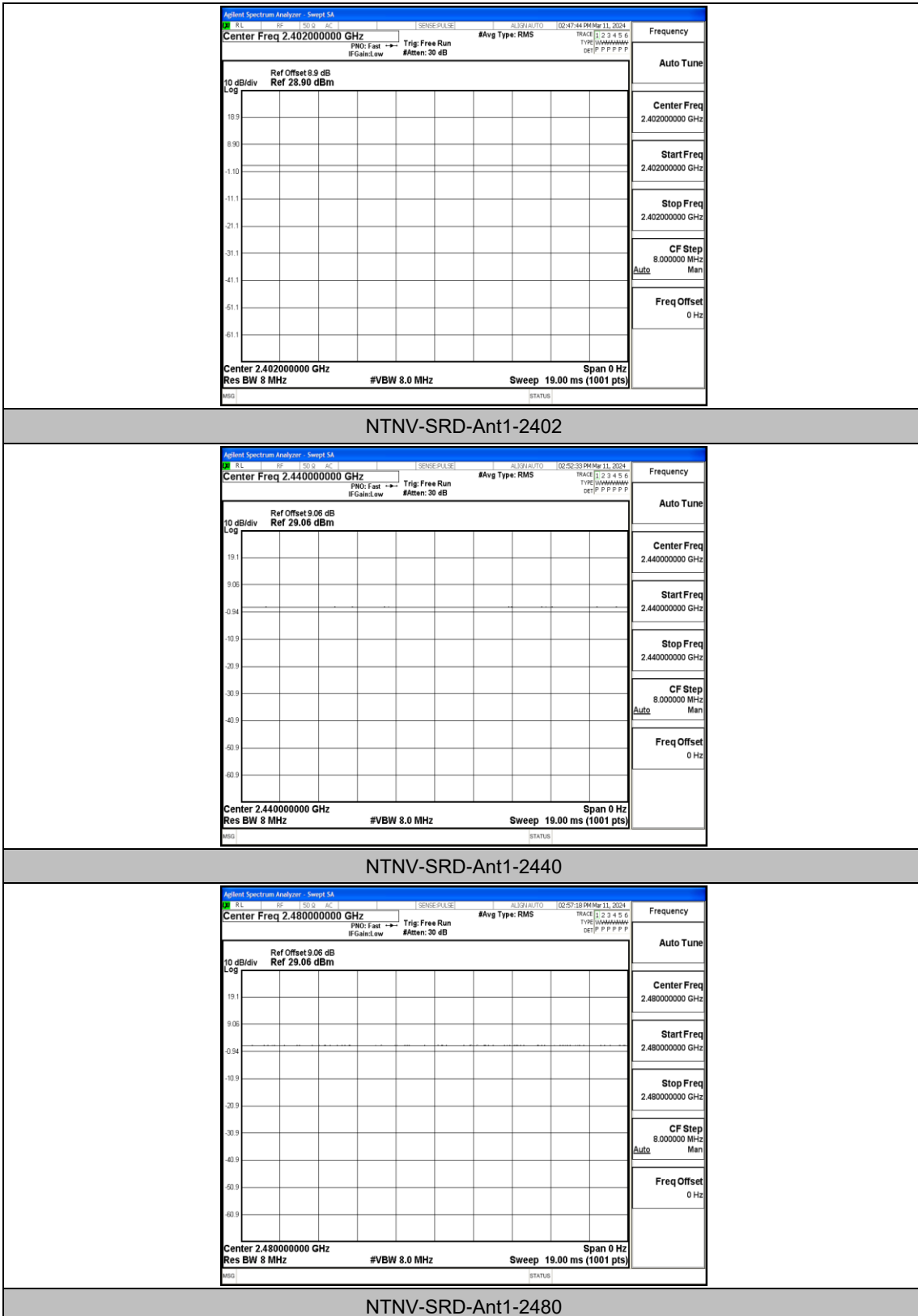
SRD-Ant1-2480-1000~26500-PASS

## 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

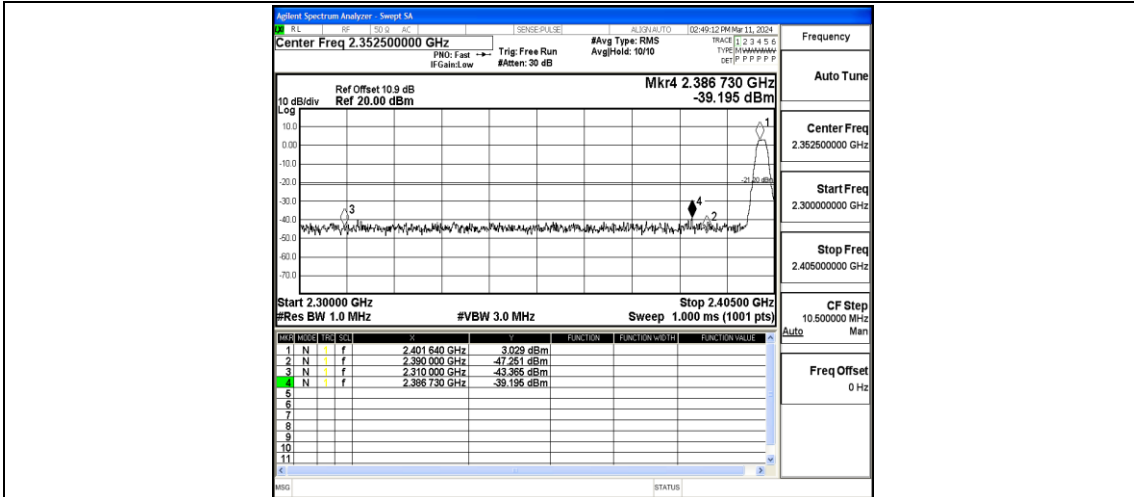
### Test Result

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	-47.25	≤-21.20	47.95	≤74	PASS
SRD	Ant1	Low	2402	Peak	2310.000	-43.37	≤-21.20	51.83	≤74	PASS
SRD	Ant1	Low	2402	Peak	2386.730	-39.2	≤-21.20	56.00	≤74	PASS
SRD	Ant1	Low	2402	AV	2390.000	-50.83	≤-41.20	44.37	≤54	PASS
SRD	Ant1	Low	2402	AV	2310.000	-50.67	≤-41.20	44.53	≤54	PASS
SRD	Ant1	Low	2402	AV	2378.015	-49.59	≤-41.20	45.61	≤54	PASS
SRD	Ant1	High	2480	Peak	2483.500	-40.99	≤-21.20	54.21	≤74	PASS
SRD	Ant1	High	2480	Peak	2500.000	-42.28	≤-21.20	52.92	≤74	PASS
SRD	Ant1	High	2480	Peak	2499.280	-39.85	≤-21.20	55.35	≤74	PASS
SRD	Ant1	High	2480	AV	2483.500	-48.47	≤-41.20	46.73	≤54	PASS
SRD	Ant1	High	2480	AV	2500.000	-49.36	≤-41.20	45.84	≤54	PASS
SRD	Ant1	High	2480	AV	2483.520	-48.47	≤-41.20	46.73	≤54	PASS

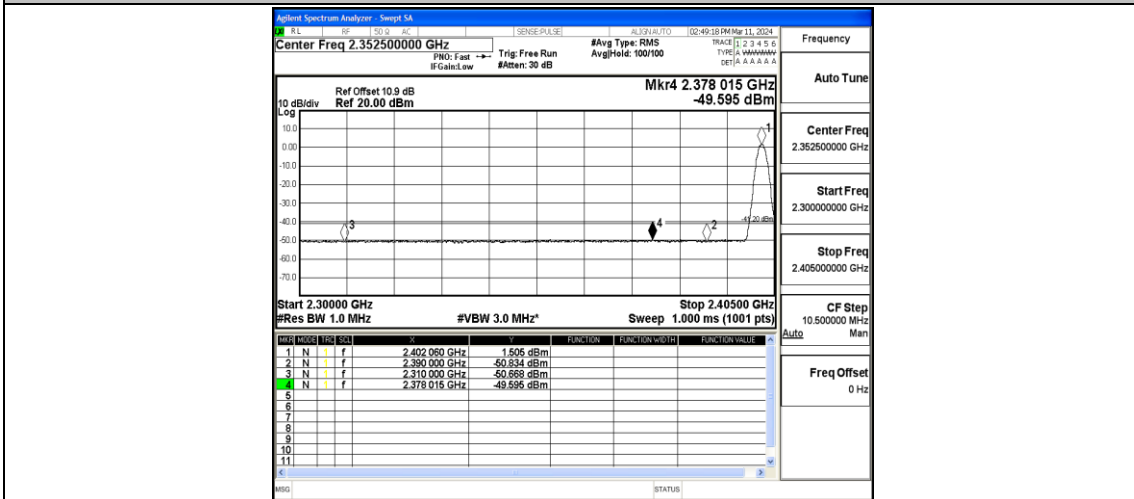
Note:

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.

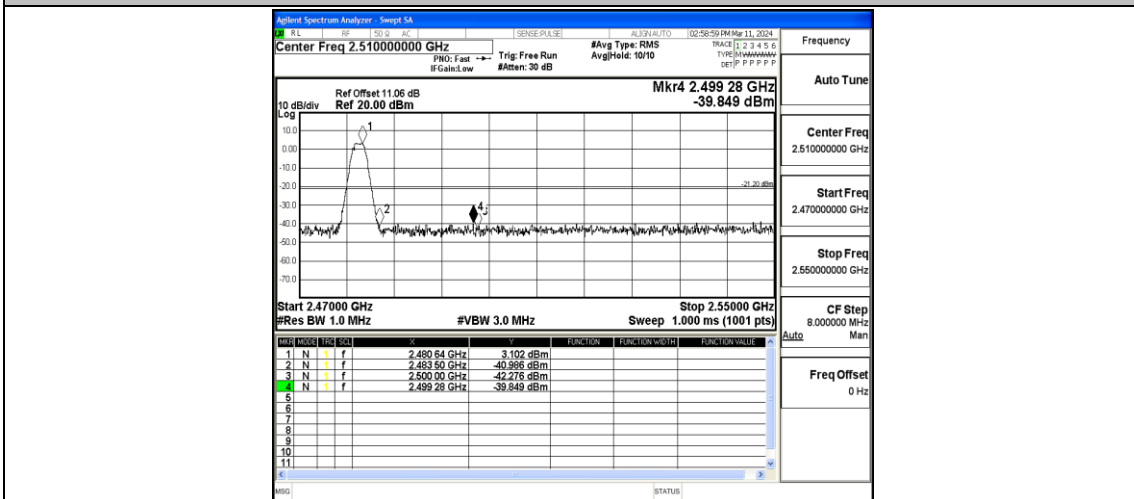
### Test Graphs



SRD-Ant1-2402-PASS



SRD-Ant1-2402-PASS



SRD-Ant1-2480-PASS

