

Appendix Test Data for SRD (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: V5 Max

FCC ID: 2ASF4-V5MAX

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

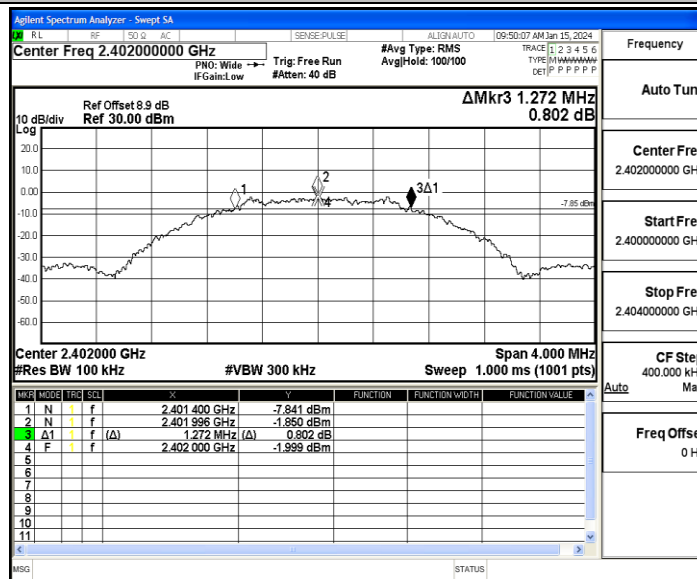
Appendix A: DTS Bandwidth

Test Result

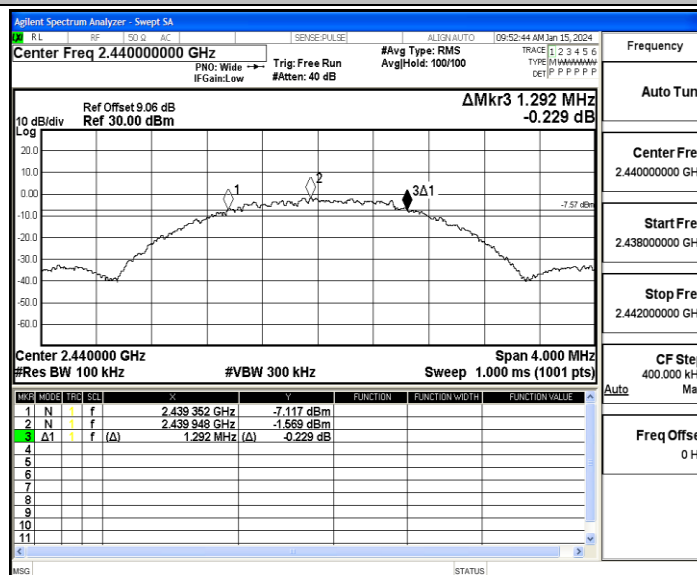
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	1.272	2401.400	2402.672	0.5	PASS
		2440	1.292	2439.352	2440.644	0.5	PASS
		2480	1.332	2479.348	2480.680	0.5	PASS

Test Graphs

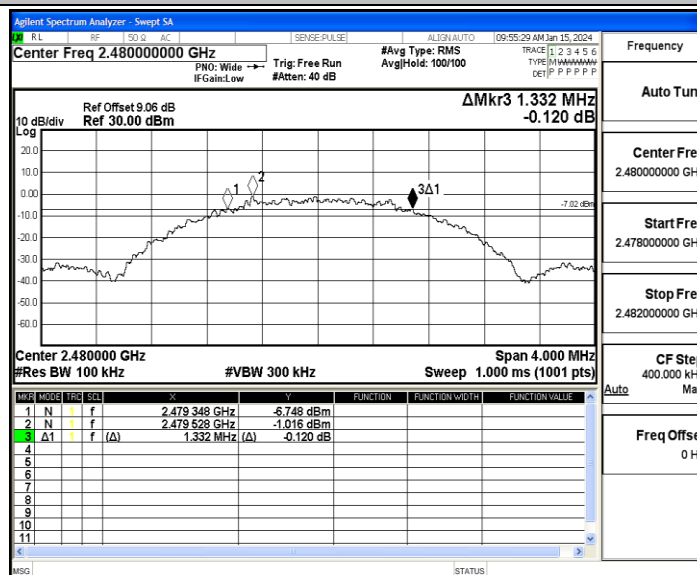
SRD_Ant1_2402



SRD_Ant1_2440



SRD_Ant1_2480

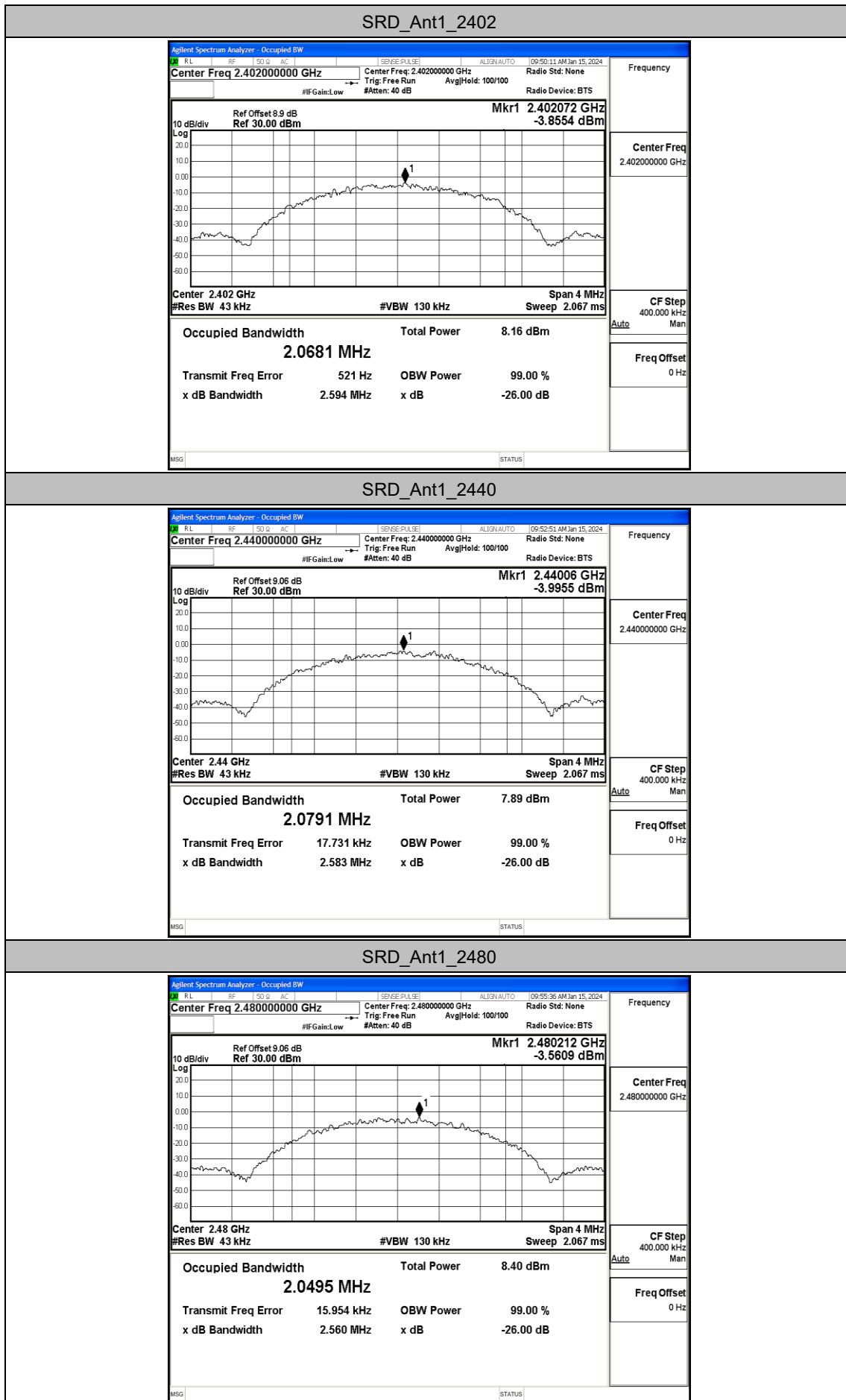


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD	Ant1	2402	2.0681	2400.9665	2403.0346	---	---
		2440	2.0791	2438.9782	2441.0573	---	---
		2480	2.0495	2478.9912	2481.0407	---	---

Test Graphs



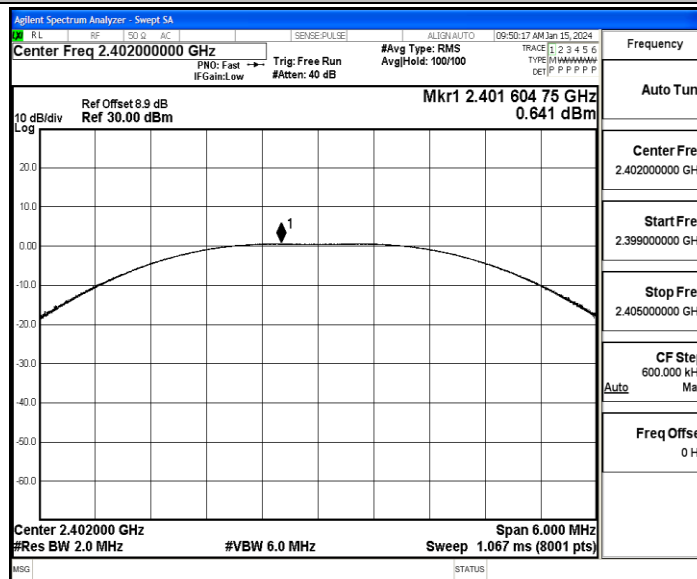
Appendix C: Maximum Peak conducted output power

Test Result

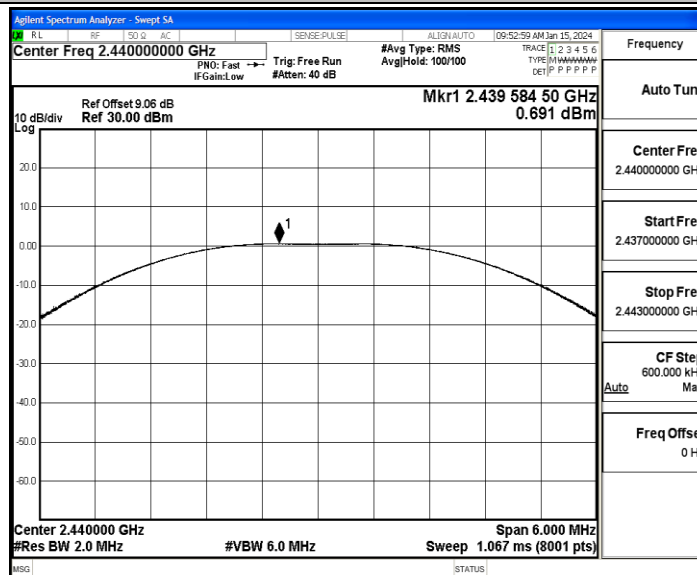
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	0.64	≤30	PASS
		2440	0.69	≤30	PASS
		2480	0.85	≤30	PASS

Test Graphs

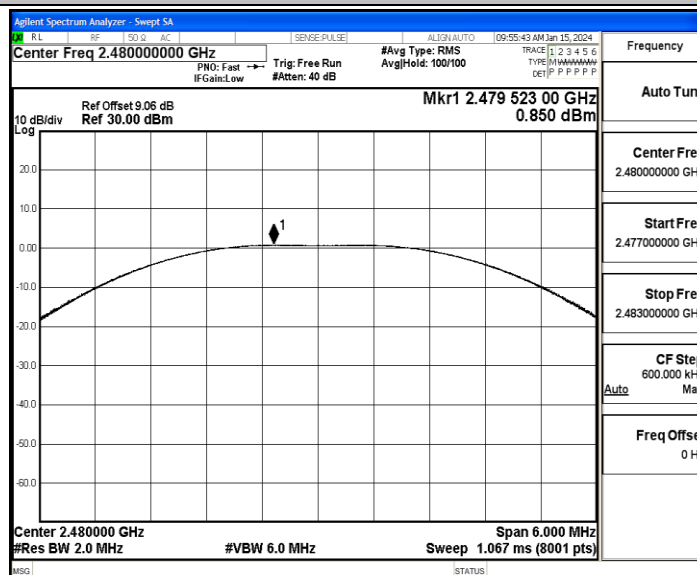
SRD_Ant1_2402



SRD_Ant1_2440



SRD_Ant1_2480



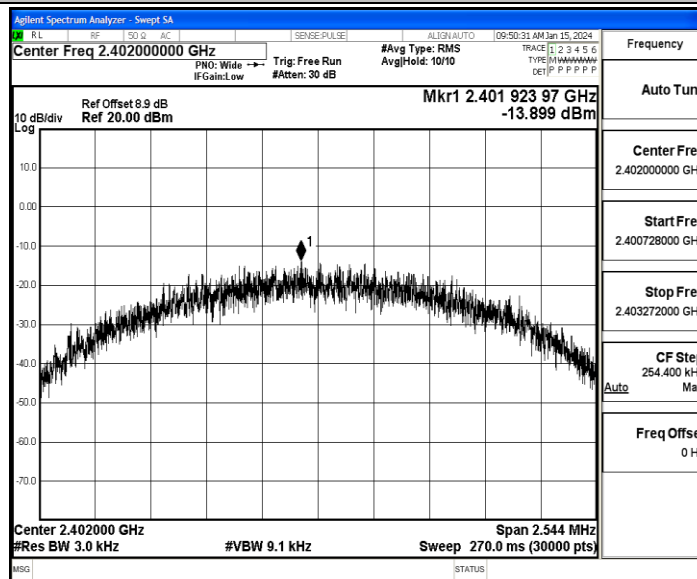
Appendix D: Maximum power spectral density

Test Result

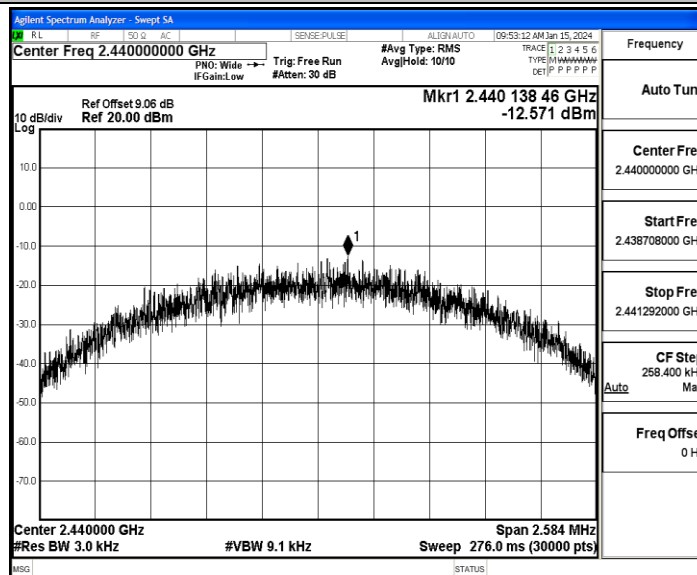
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
SRD	Ant1	2402	-13.9	≤8.00	PASS
		2440	-12.57	≤8.00	PASS
		2480	-12.76	≤8.00	PASS

Test Graphs

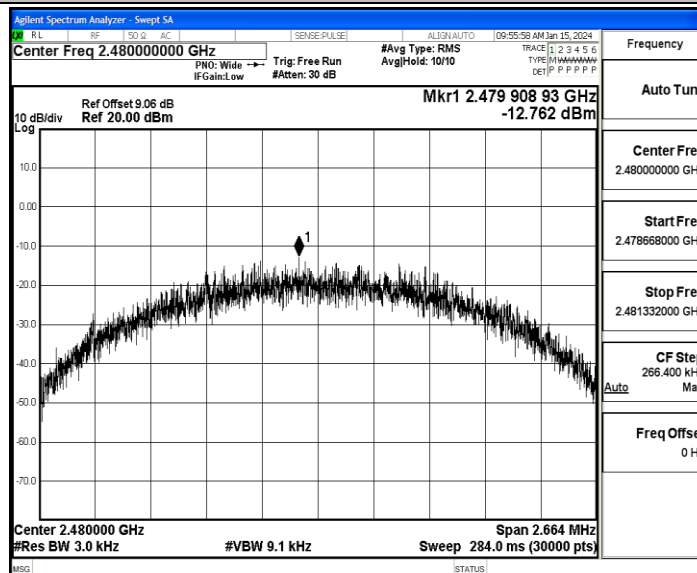
SRD_Ant1_2402



SRD_Ant1_2440



SRD_Ant1_2480



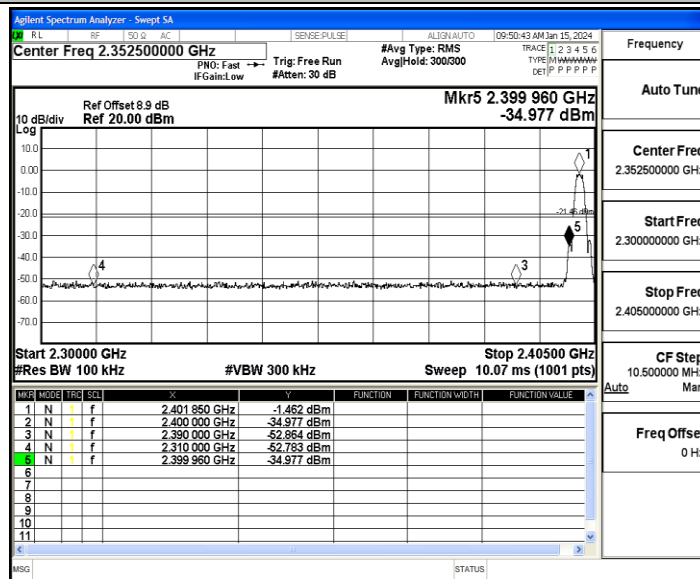
Appendix E: Band edge measurements

Test Result

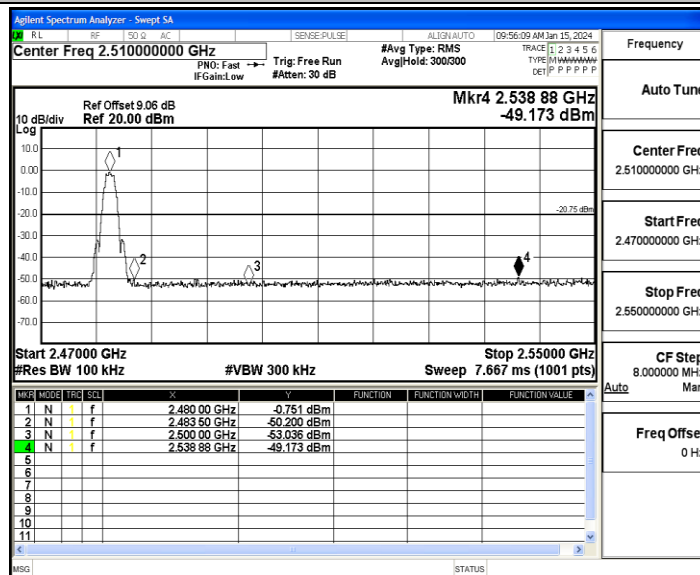
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	Low	2402	-1.46	-34.98	≤ -21.46	PASS
		High	2480	-0.75	-49.17	≤ -20.75	PASS

Test Graphs

SRD_Ant1_Low_2402



SRD_Ant1_High_2480

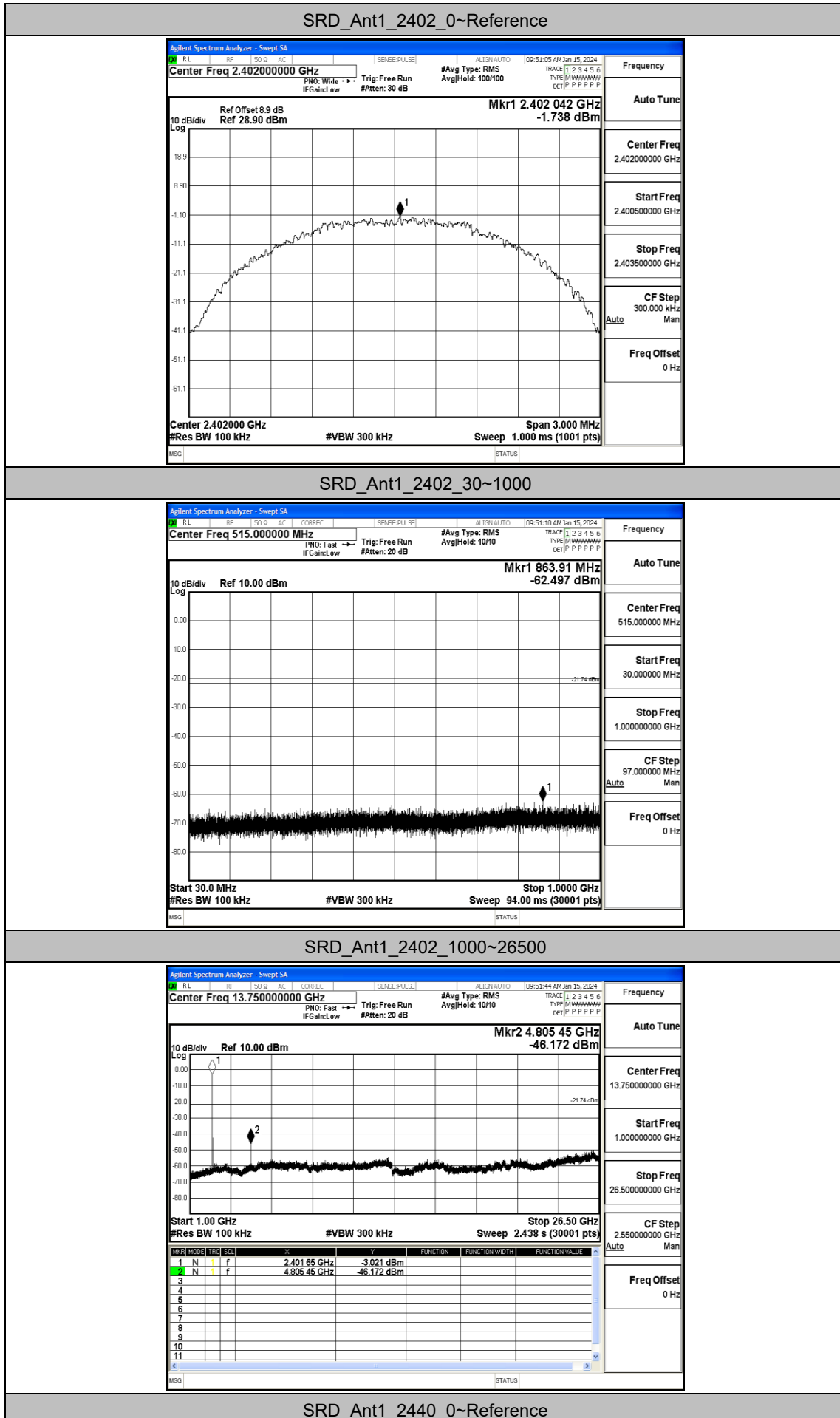


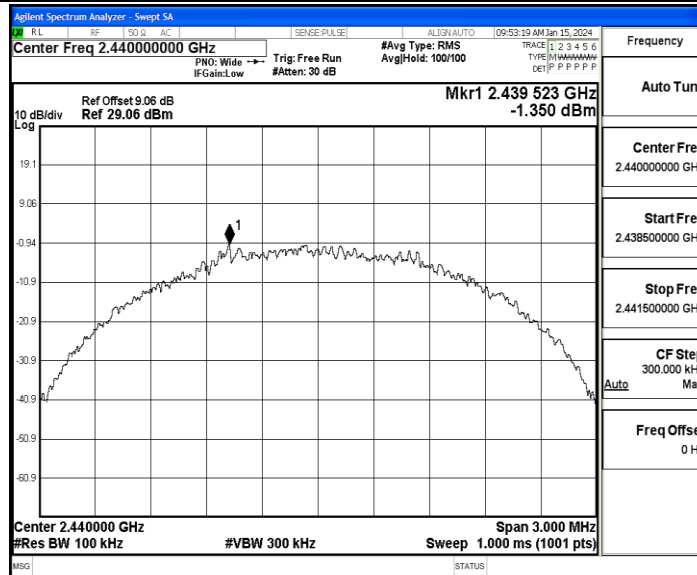
Appendix F: Conducted Spurious Emission

Test Result

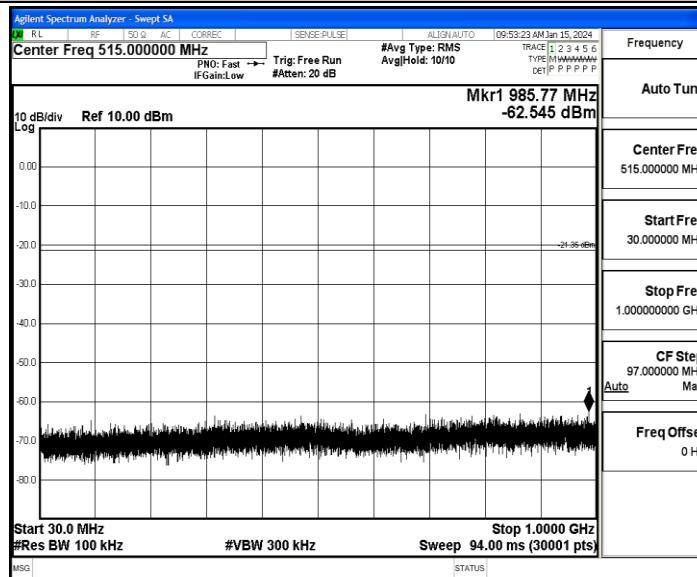
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
SRD	Ant1	2402	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-62.5	≤-21.74	PASS
			1000~26500	-1.74	-46.17	≤-21.74	PASS
		2440	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-62.55	≤-21.35	PASS
			1000~26500	-1.35	-46.04	≤-21.35	PASS
		2480	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-62.36	≤-21.36	PASS
			1000~26500	-1.36	-47.49	≤-21.36	PASS

Test Graphs

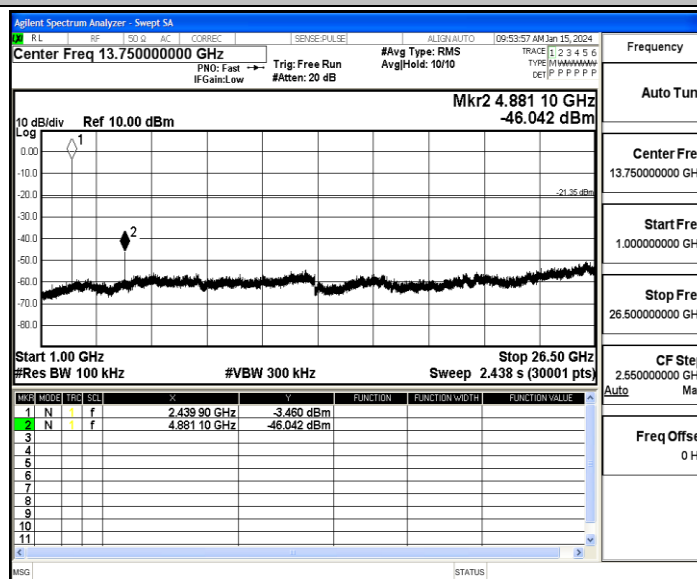




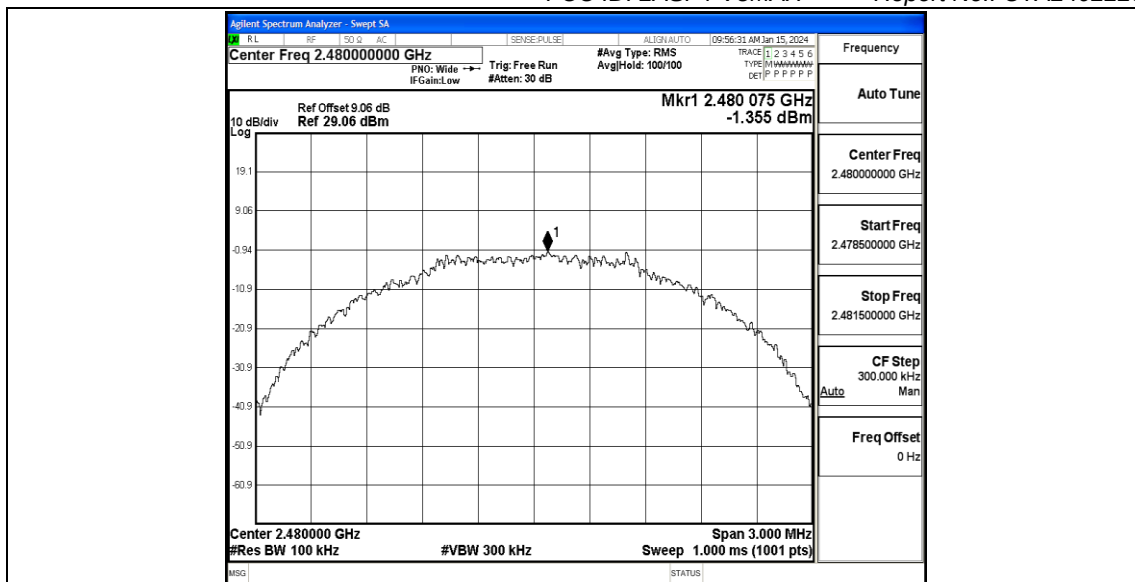
SRD_Ant1_2440_30~1000



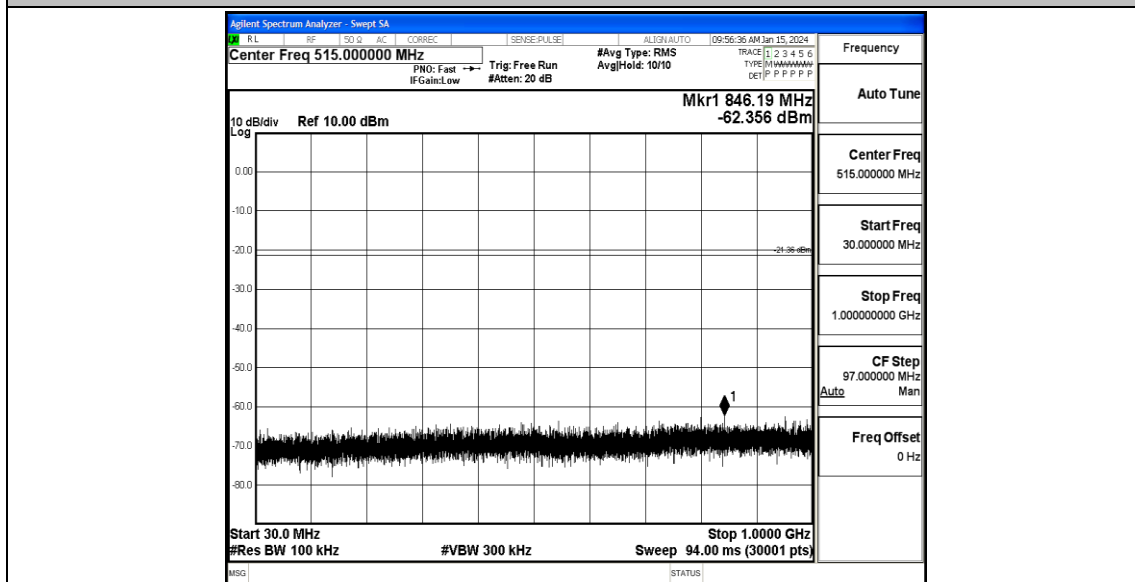
SRD_Ant1_2440_1000~26500



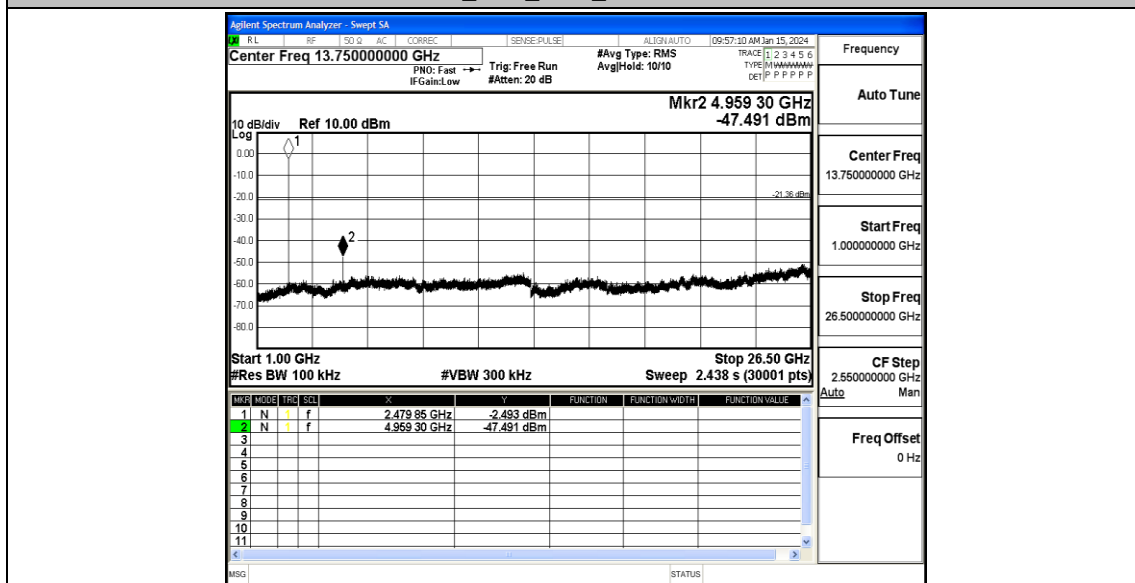
SRD_Ant1_2480_0~Reference



SRD_Ant1_2480_30~1000



SRD_Ant1_2480_1000~26500



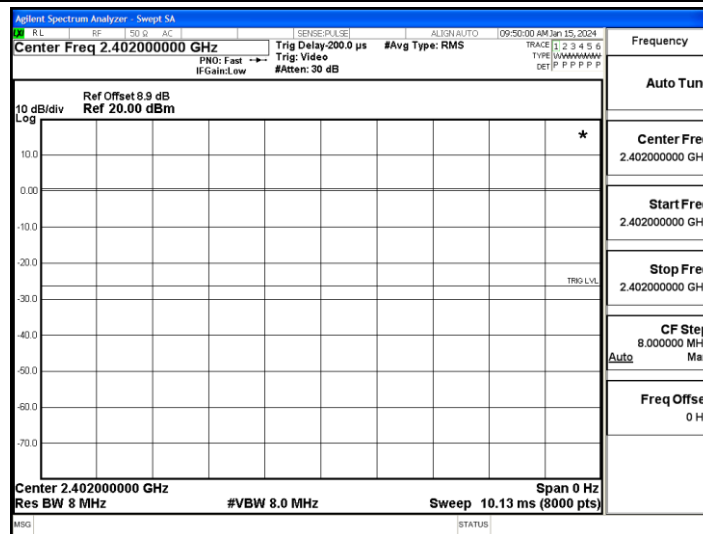
Appendix G: Duty Cycle

Test Result

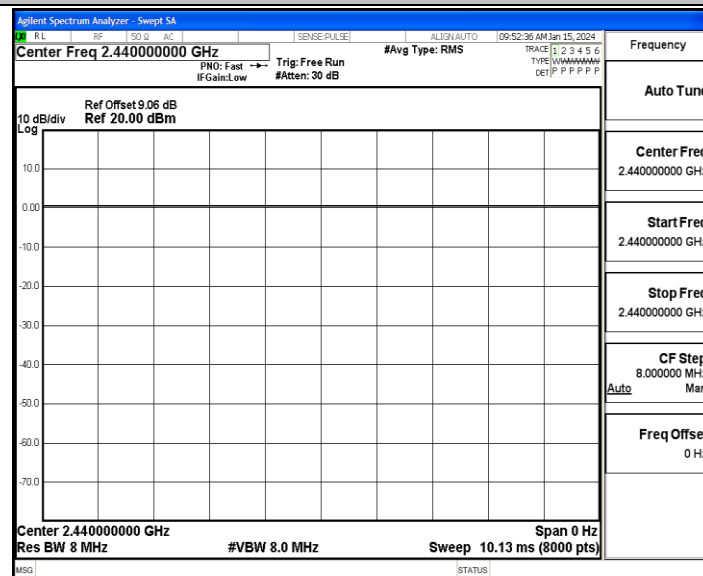
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
SRD	Ant1	2402	10.13	10.13	100
		2440	10.13	10.13	100
		2480	10.13	10.13	100

Test Graphs

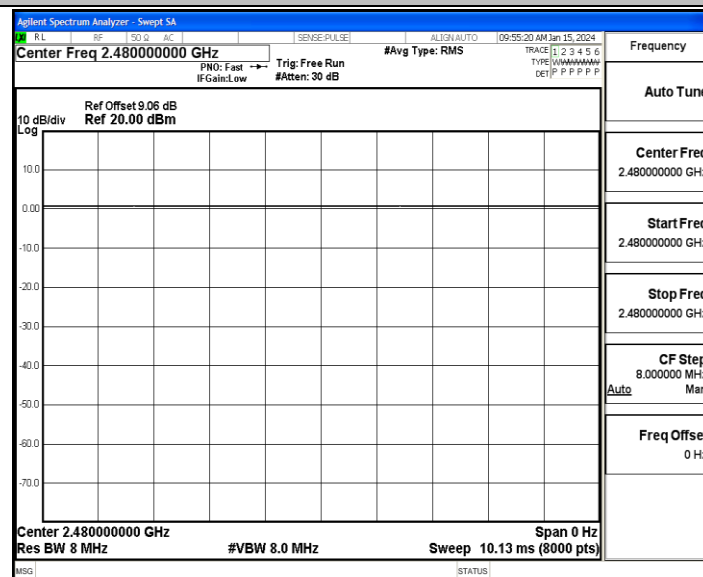
SRD_Ant1_2402



SRD_Ant1_2440



SRD_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

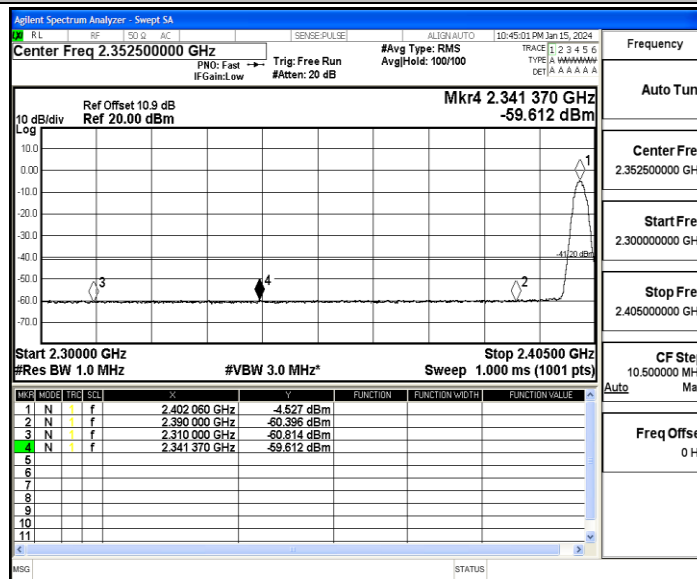
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2402	AV	2310.000	-60.81	≤ -41.20	PASS
				AV	2341.370	-59.61	≤ -41.20	PASS
				AV	2390.000	-60.4	≤ -41.20	PASS
				Peak	2310.000	-52.91	≤ -21.20	PASS
				Peak	2343.995	-50.12	≤ -21.20	PASS
				Peak	2390.000	-53.29	≤ -21.20	PASS
		High	2480	AV	2483.500	-57.34	≤ -41.20	PASS
				AV	2483.520	-57.34	≤ -41.20	PASS
				AV	2500.000	-59.5	≤ -41.20	PASS
				Peak	2483.500	-47.45	≤ -21.20	PASS
				Peak	2483.520	-47.45	≤ -21.20	PASS
				Peak	2500.000	-54.97	≤ -21.20	PASS

Note:

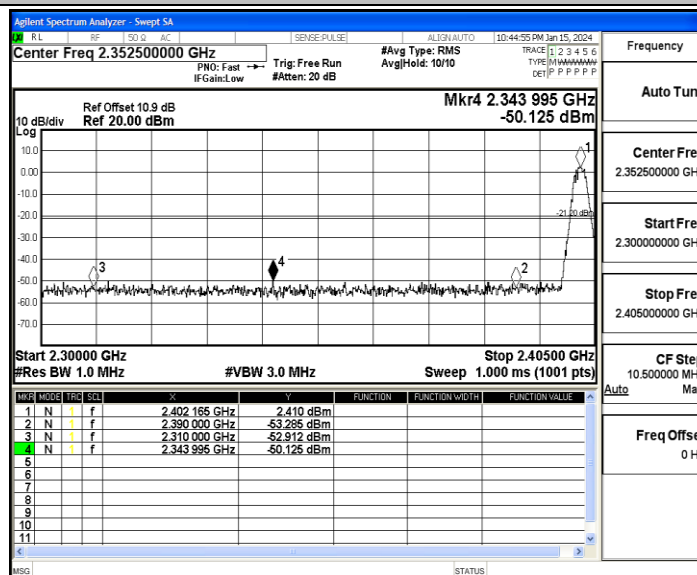
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

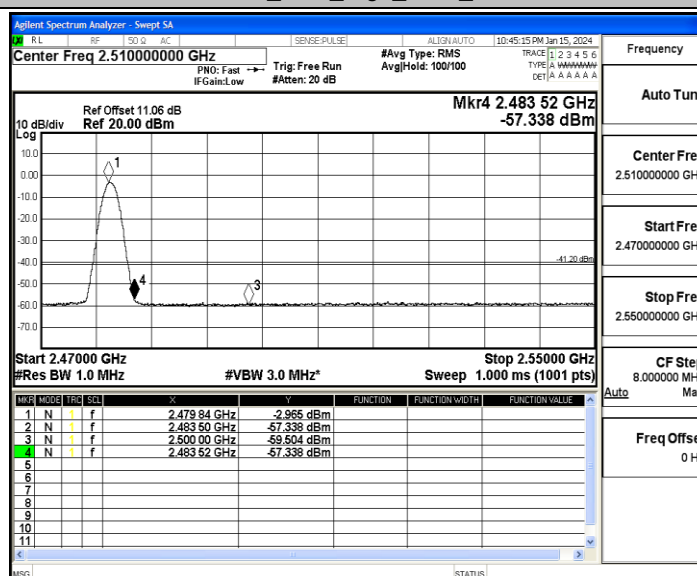
SRD_Ant1_Low_2402_AV



SRD_Ant1_Low_2402_Peak



SRD_Ant1_High_2480_AV



SRD_Ant1_High_2480_Peak

