

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Mechanical Keyboard

Trade Mark: Keychron

Test Model: Keychron Q6 Pro

FCC ID: 2ASF4-Q6PRO

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

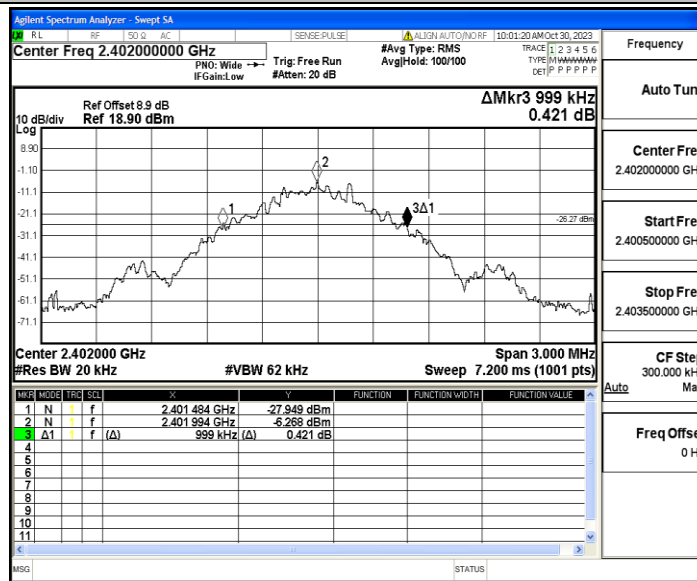
Appendix A: 20dB Emission Bandwidth

Test Result

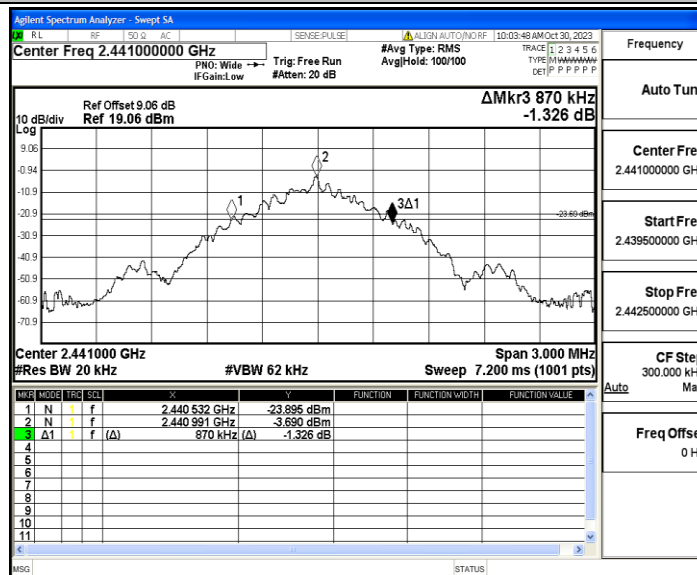
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.999	2401.484	2402.483	---	---
		2441	0.870	2440.532	2441.402	---	---
		2480	0.957	2479.529	2480.486	---	---

Test Graphs

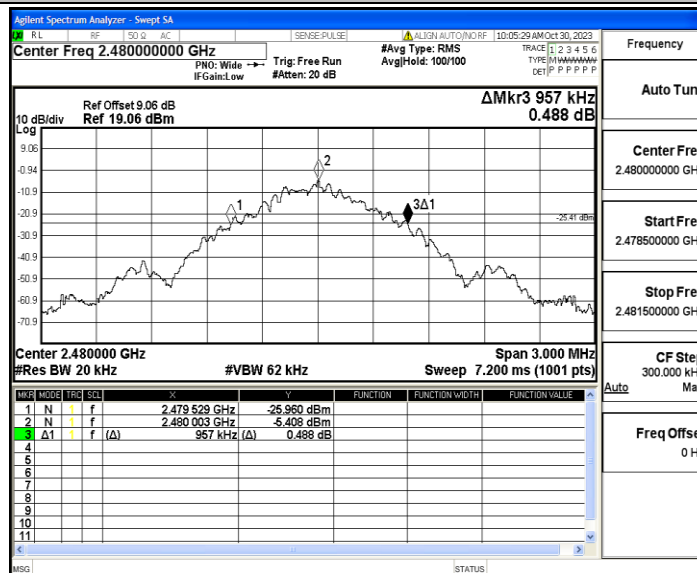
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



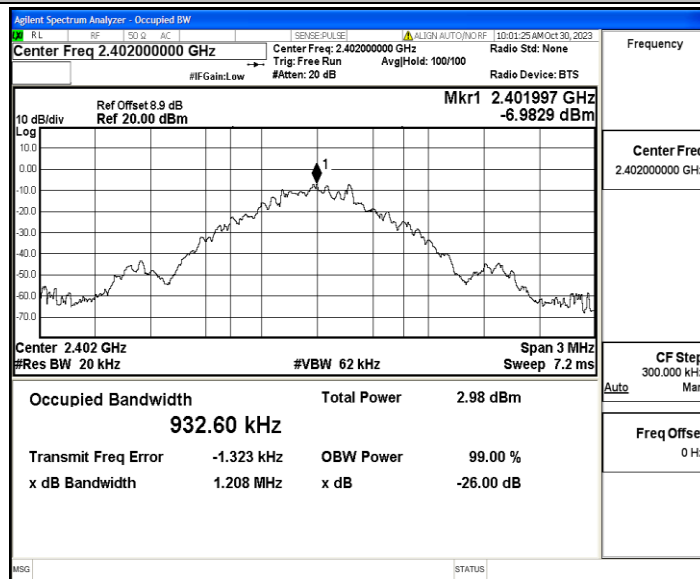
Appendix B: Occupied Channel Bandwidth

Test Result

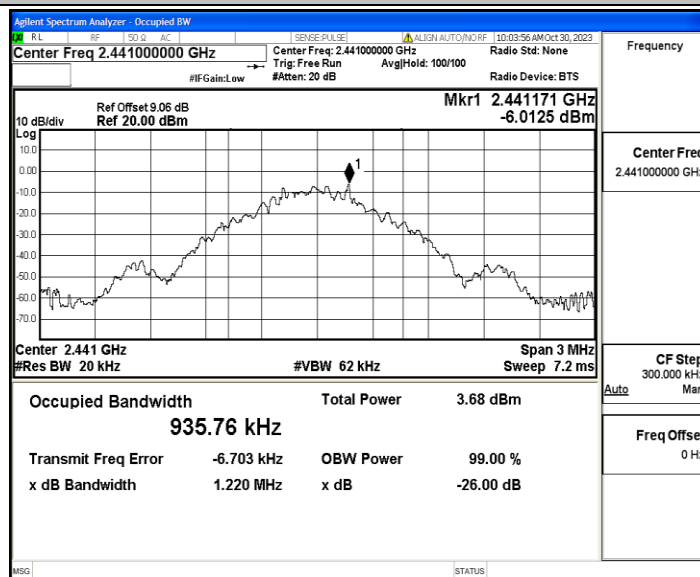
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.93260	2401.5324	2402.4650	---	---
		2441	0.93576	2440.5254	2441.4612	---	---
		2480	0.92755	2479.5392	2480.4667	---	---

Test Graphs

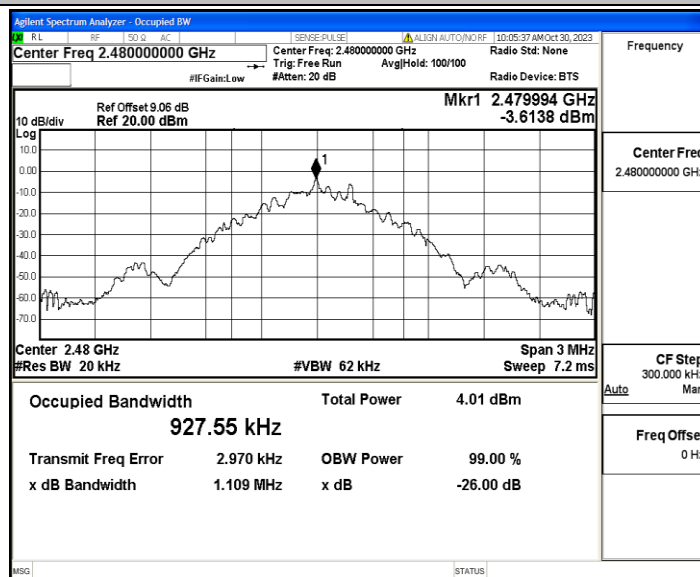
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



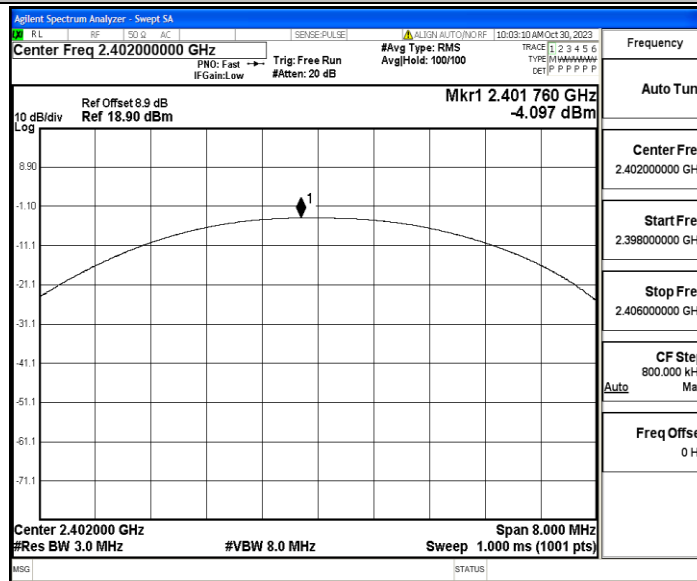
Appendix C: Maximum Peak conducted output power

Test Result

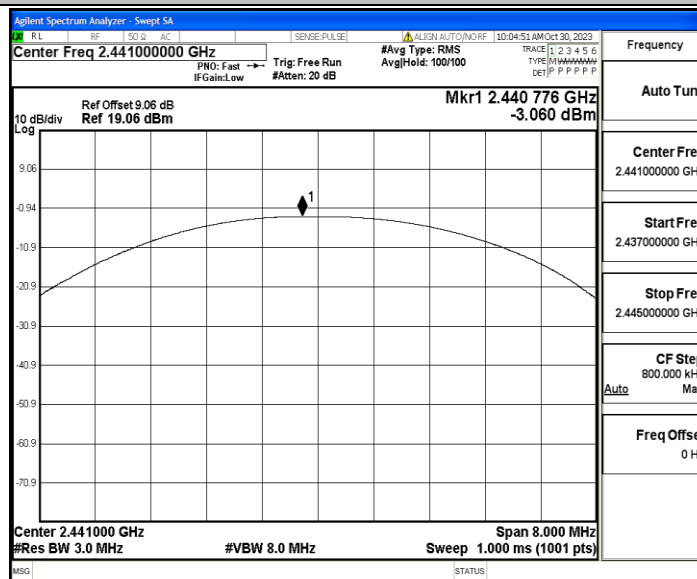
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-4.1	≤20.97	PASS
		2441	-3.06	≤20.97	PASS
		2480	-3.15	≤20.97	PASS

Test Graphs

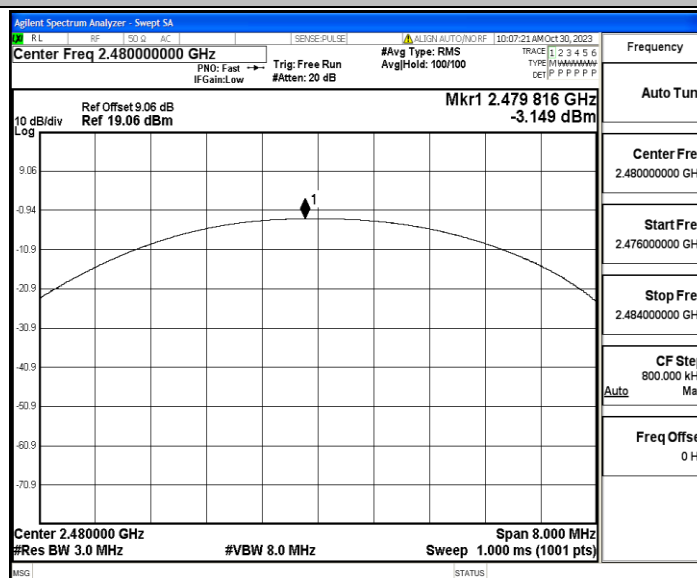
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

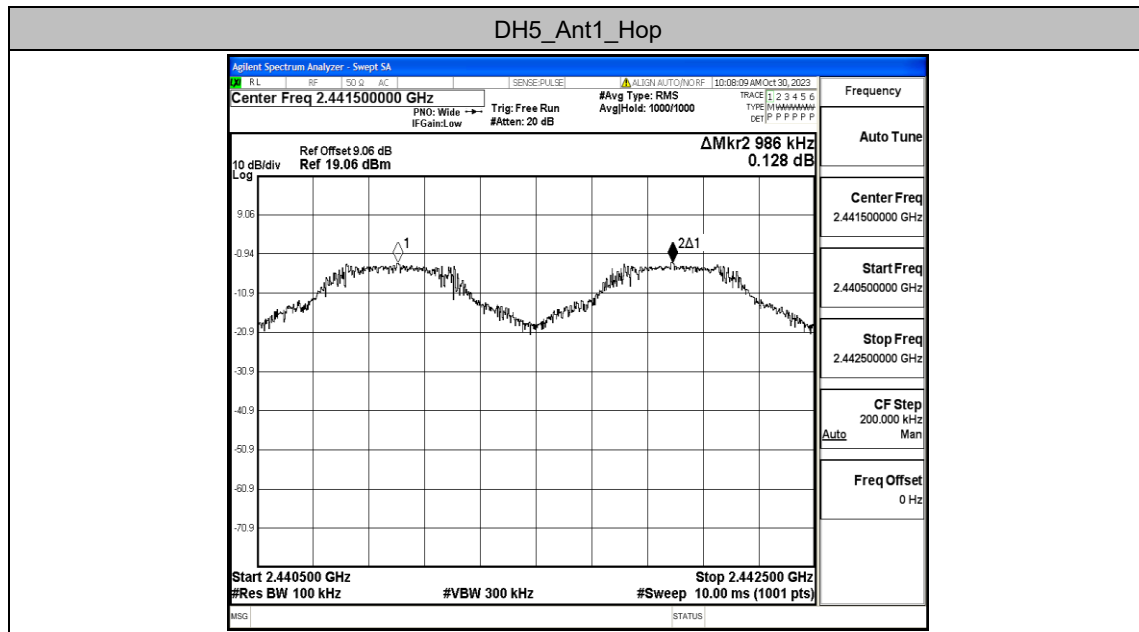


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.986	≥ 0.666	PASS

Test Graphs

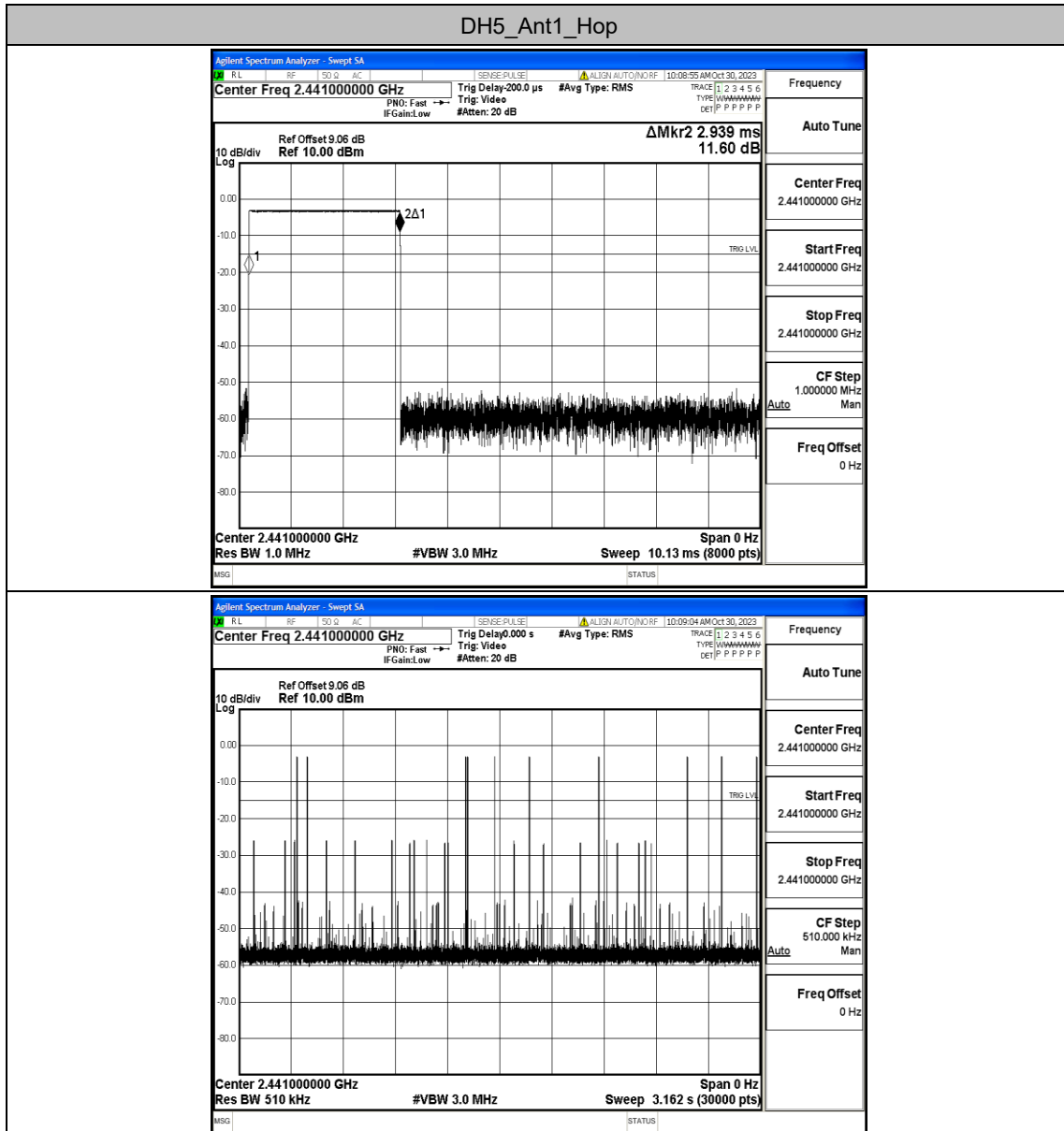


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.939	110	0.323	≤0.4	PASS

Test Graphs

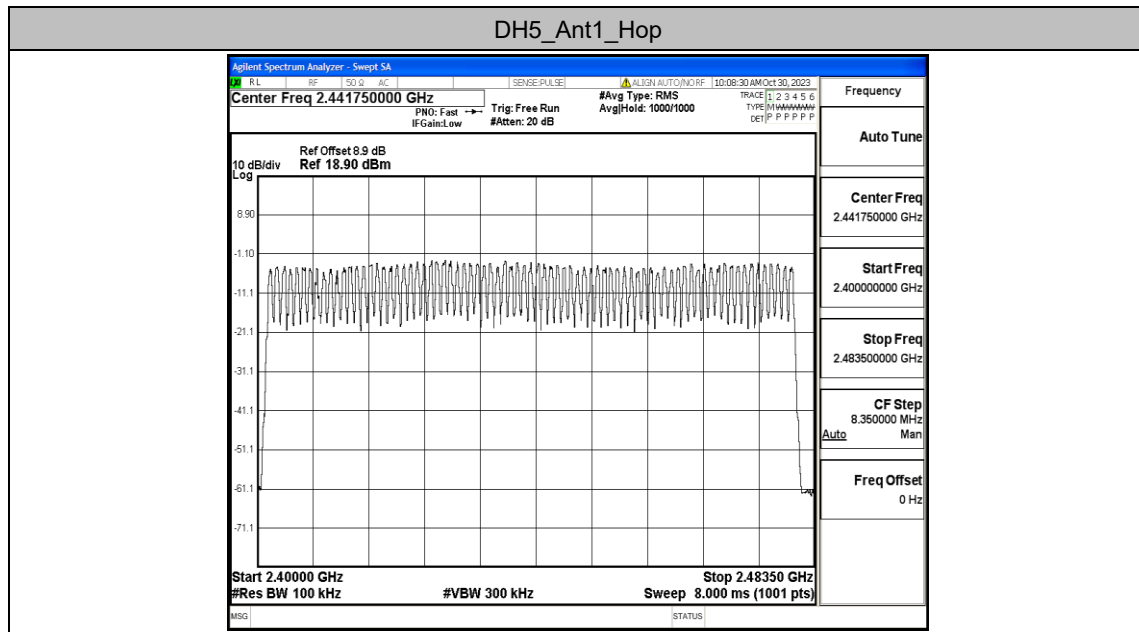


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



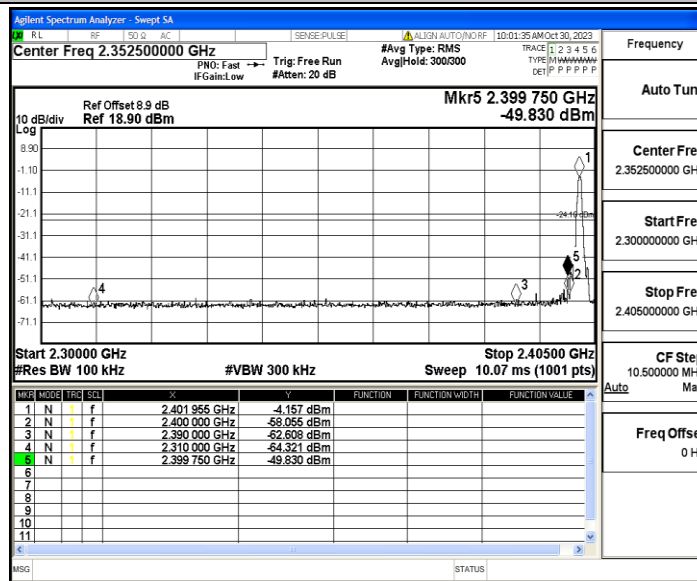
Appendix G: Band edge measurements

Test Result

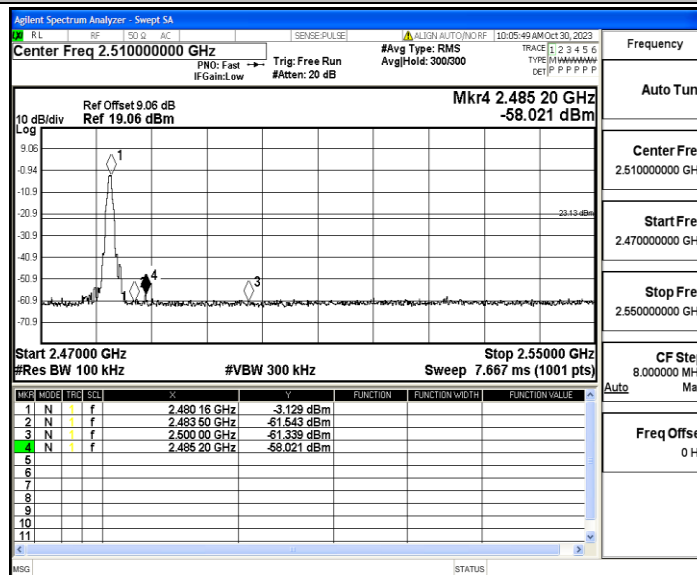
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.16	-49.83	≤ -24.16	PASS
		High	2480	-3.13	-58.02	≤ -23.13	PASS
		Low	Hop_2402	-5.24	-57.59	≤ -25.24	PASS
		High	Hop_2480	-3.22	-58.81	≤ -23.22	PASS

Test Graphs

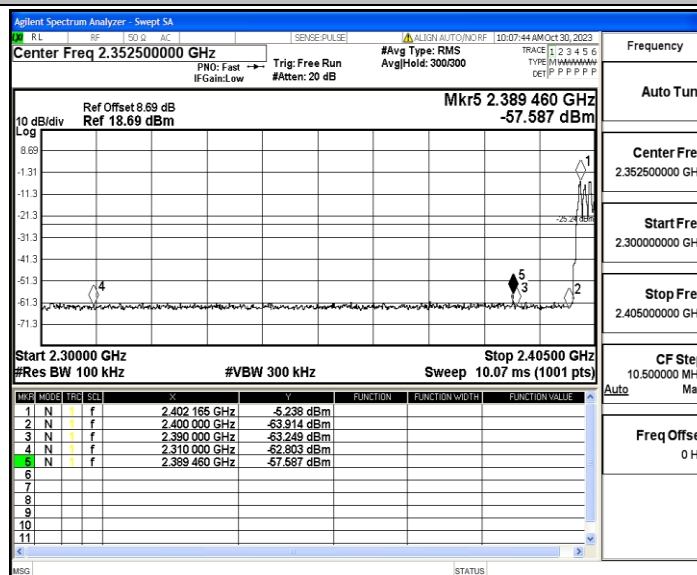
DH5_Ant1_Low_2402



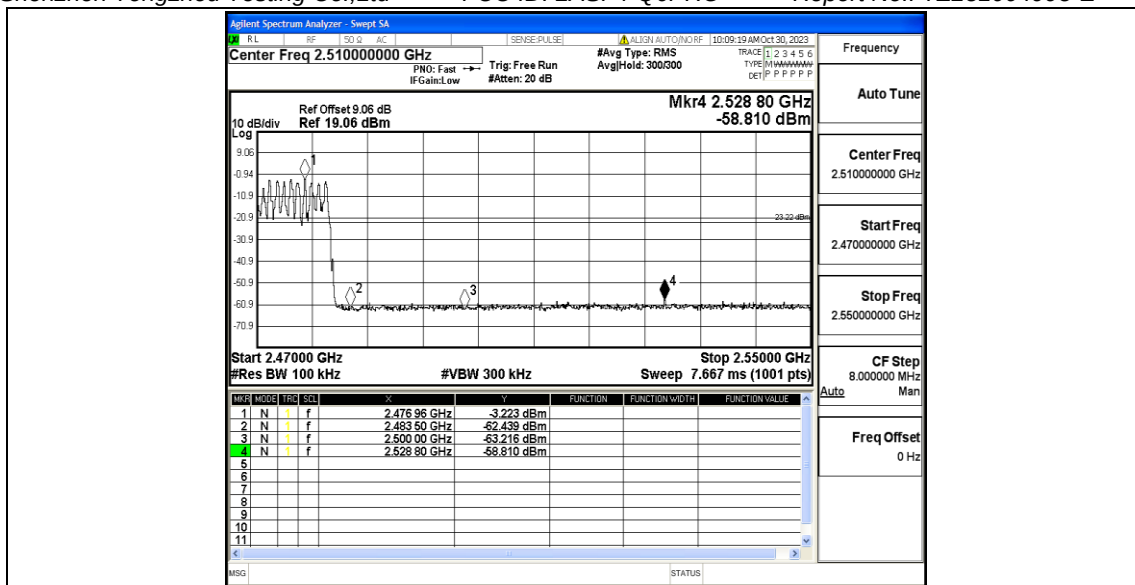
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



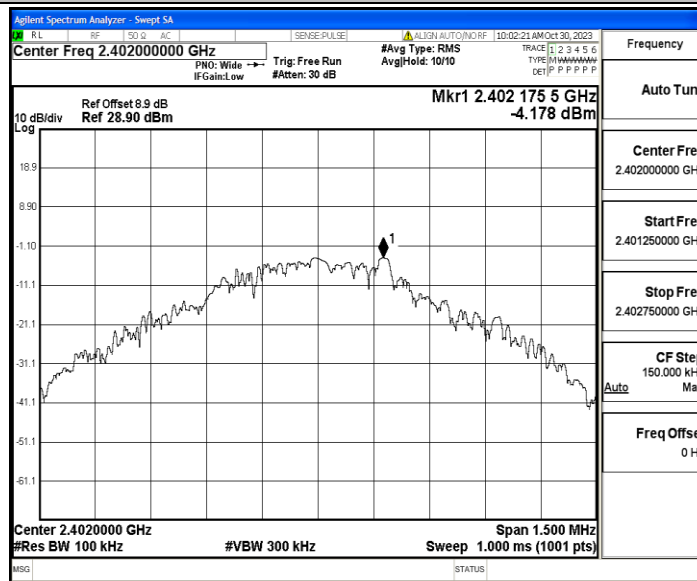
Appendix H: Conducted Spurious Emission

Test Result

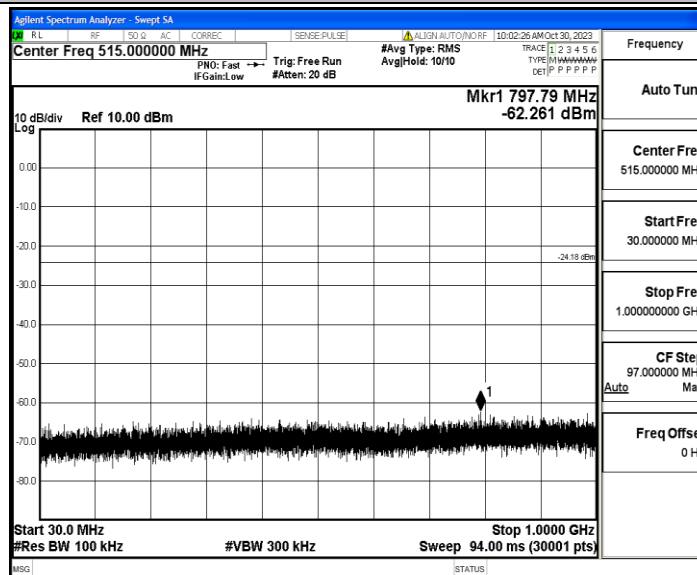
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.18	-4.18	---	PASS
			30~1000	-4.18	-62.26	≤-24.18	PASS
			1000~26500	-4.18	-49.37	≤-24.18	PASS
		2441	Reference	-3.97	-3.97	---	PASS
			30~1000	-3.97	-63.23	≤-23.97	PASS
			1000~26500	-3.97	-49.41	≤-23.97	PASS
		2480	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-62.06	≤-23.94	PASS
			1000~26500	-3.94	-49.14	≤-23.94	PASS

Test Graphs

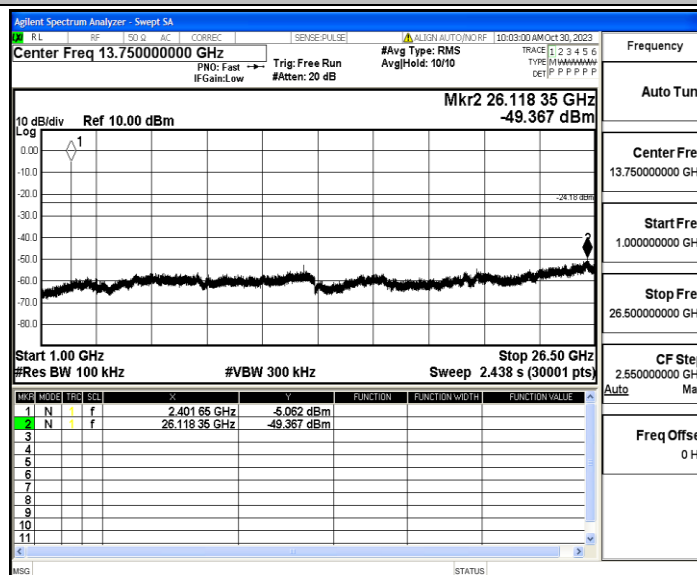
DH5_Ant1_2402_0~Reference



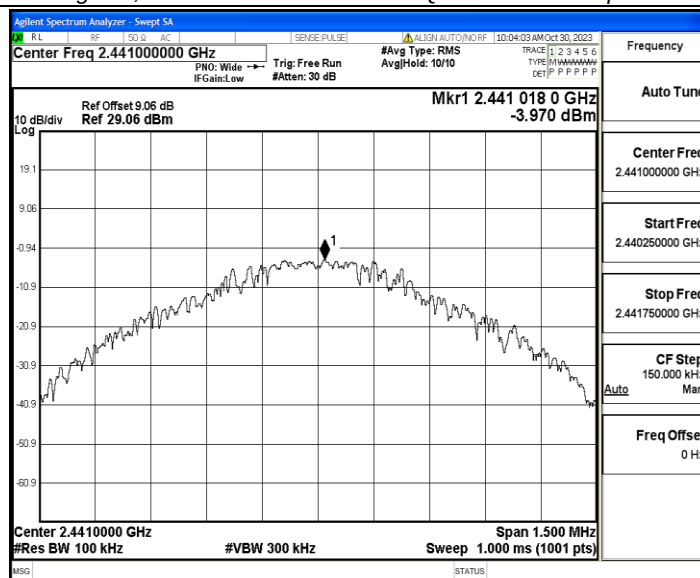
DH5_Ant1_2402_30~1000



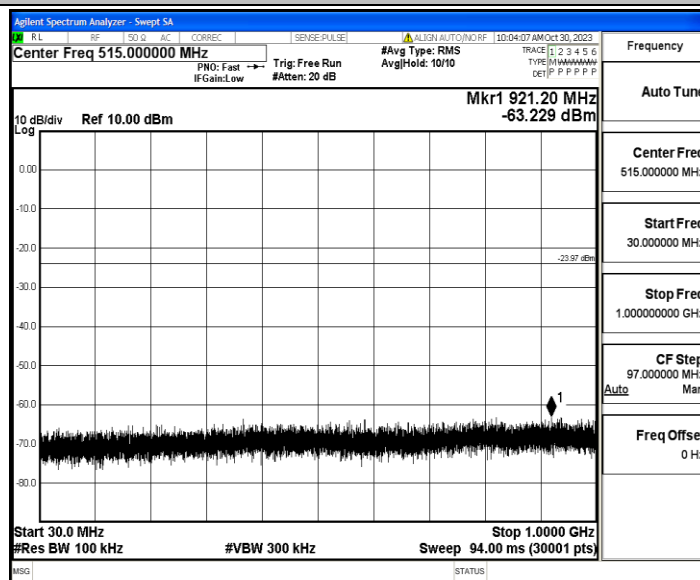
DH5_Ant1_2402_1000~26500



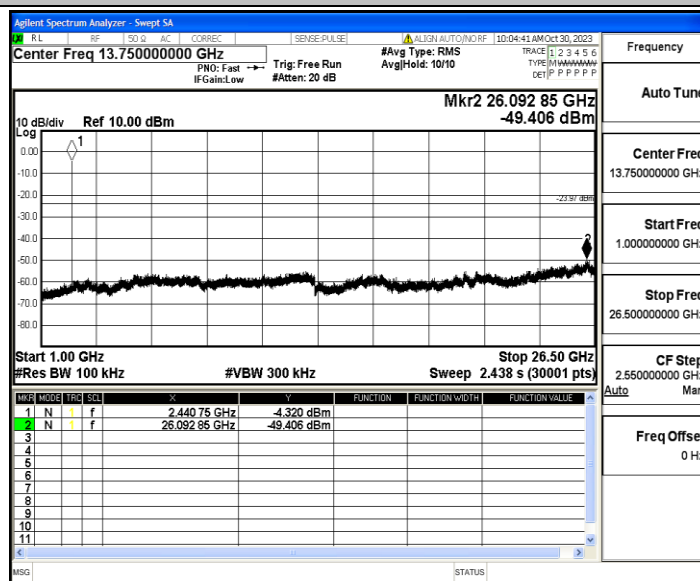
DH5_Ant1_2441_0~Reference



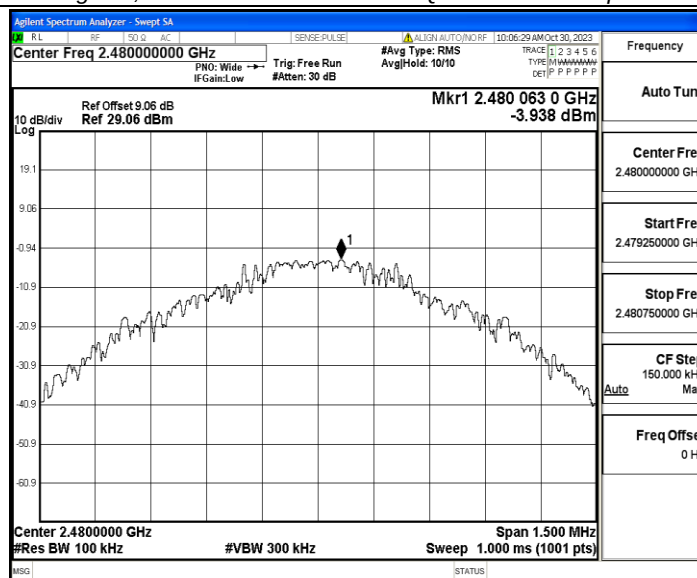
DH5_Ant1_2441_30~1000



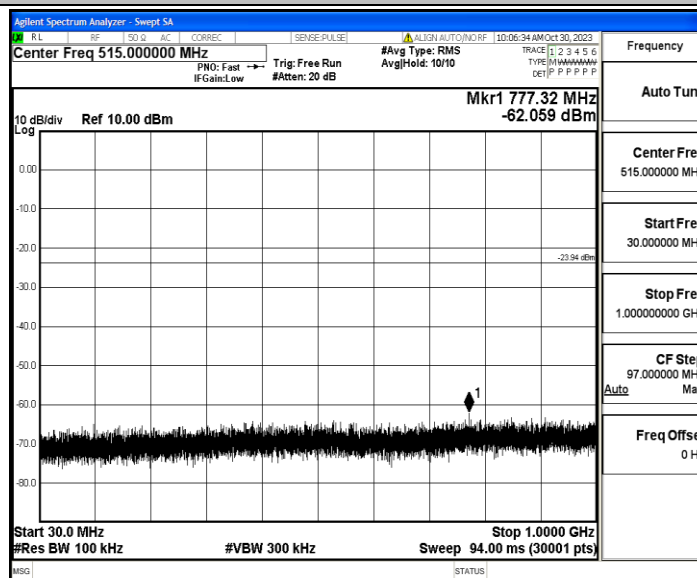
DH5_Ant1_2441_1000~26500



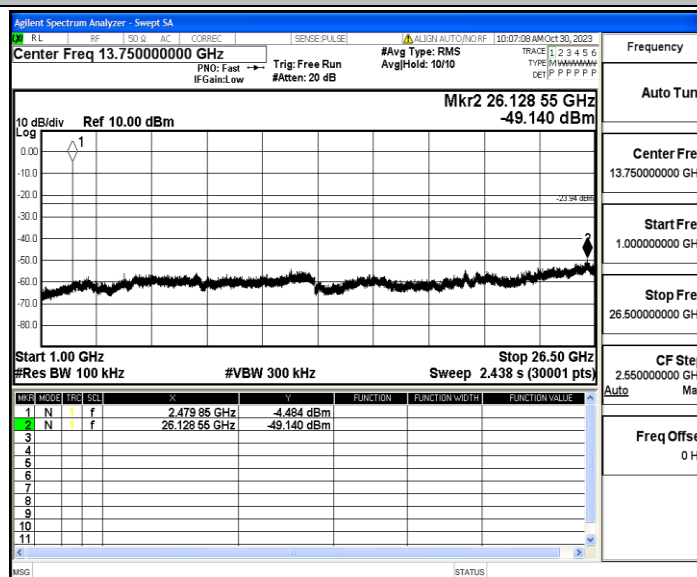
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



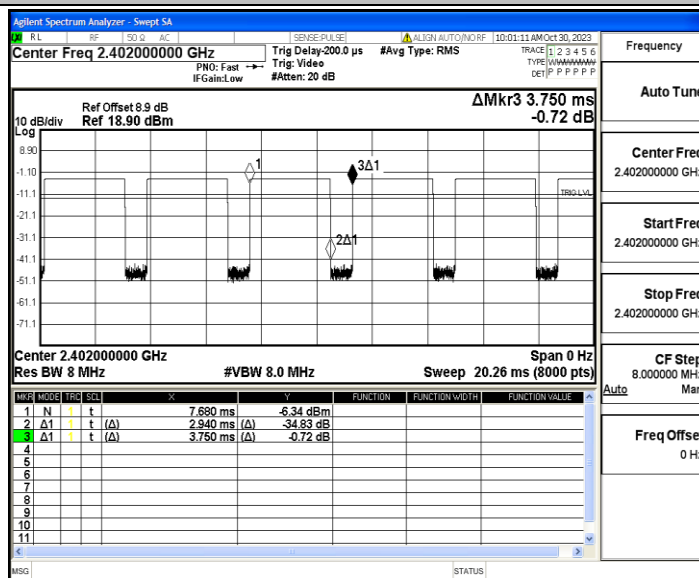
Appendix I: Duty Cycle

Test Result

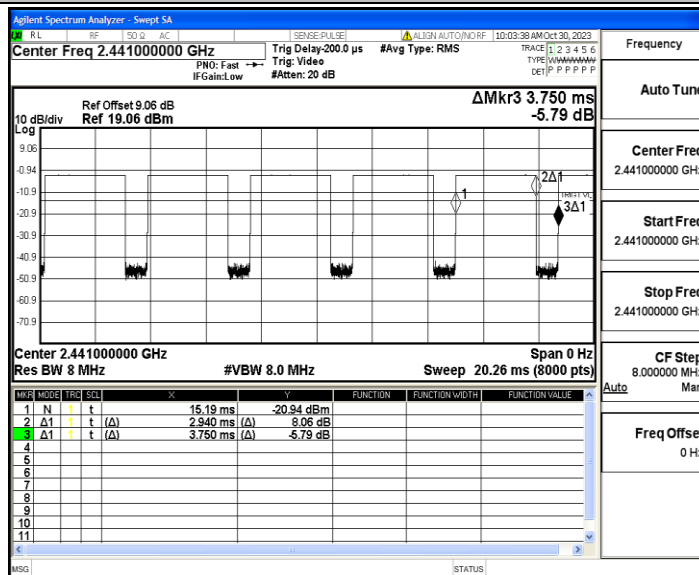
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.94	3.75	78.40	0.34
		2441	2.94	3.75	78.40	0.34
		2480	2.94	3.75	78.40	0.34

Test Graphs

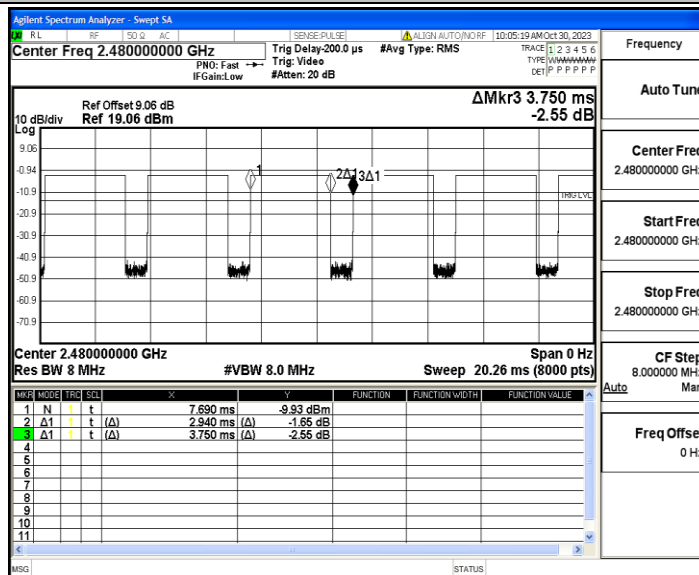
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

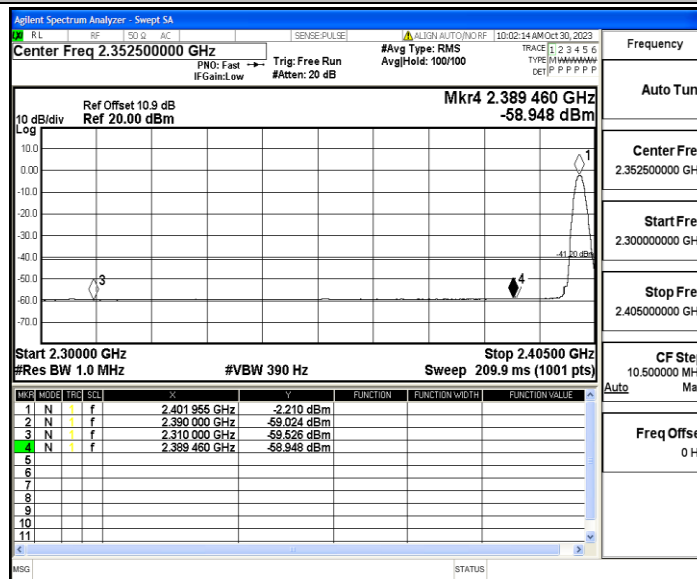
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-59.53	≤ -41.20	PASS
				AV	2389.460	-58.95	≤ -41.20	PASS
				AV	2390.000	-59.02	≤ -41.20	PASS
				Peak	2310.000	-52.73	≤ -21.20	PASS
				Peak	2385.575	-47.84	≤ -21.20	PASS
				Peak	2390.000	-49.84	≤ -21.20	PASS
		High	2480	AV	2483.500	-56.89	≤ -41.20	PASS
				AV	2483.520	-56.89	≤ -41.20	PASS
				AV	2500.000	-58.51	≤ -41.20	PASS
				Peak	2483.500	-49.89	≤ -21.20	PASS
				Peak	2486.960	-47.49	≤ -21.20	PASS
				Peak	2500.000	-51.15	≤ -21.20	PASS

Note:

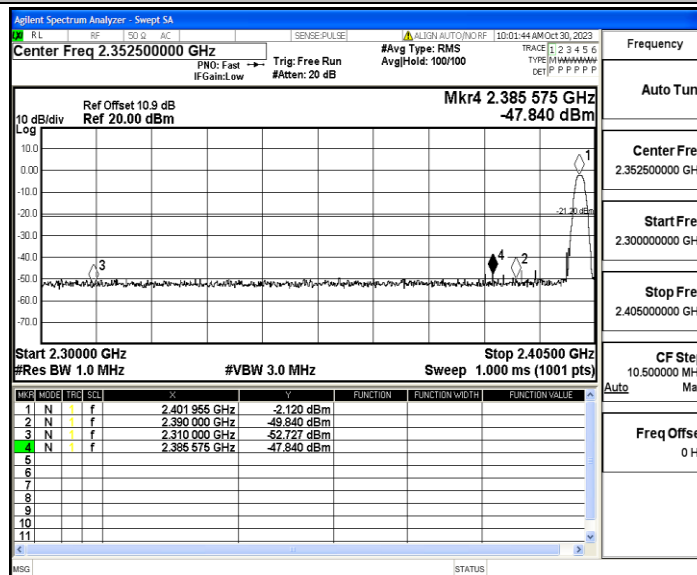
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

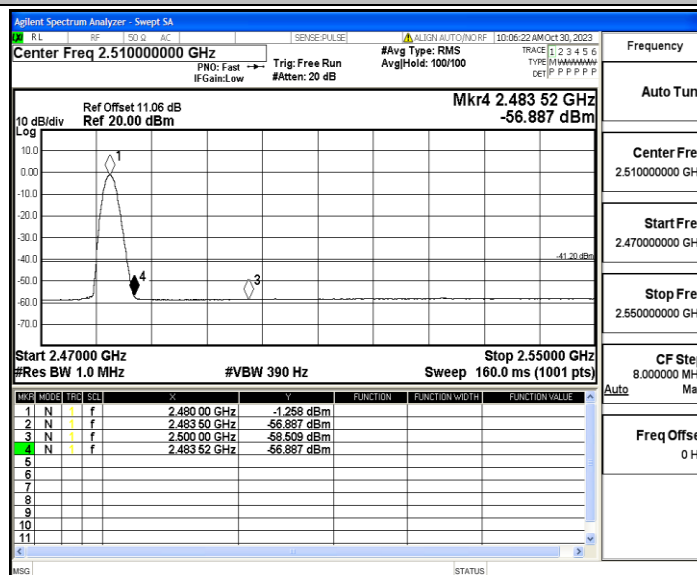
DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

