

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

Product Name: Bluetooth Mechanical Keyboard

Trade Mark: Keychron

Test Model: Keychron K17 Pro

FCC ID: 2ASF4-K17PRO

Environmental Conditions

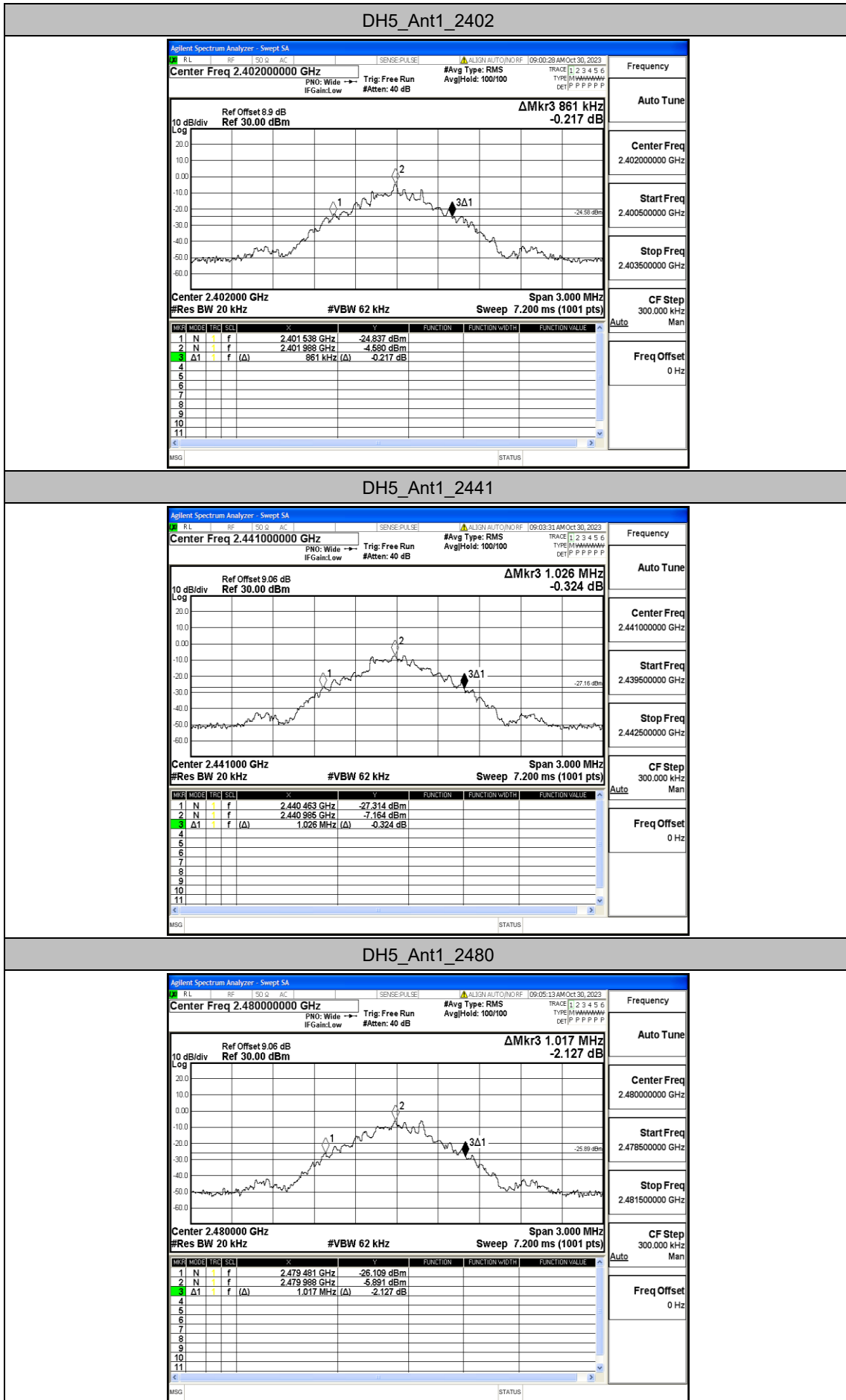
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.861	2401.538	2402.399	---	---
		2441	1.026	2440.463	2441.489	---	---
		2480	1.017	2479.481	2480.498	---	---

Test Graphs

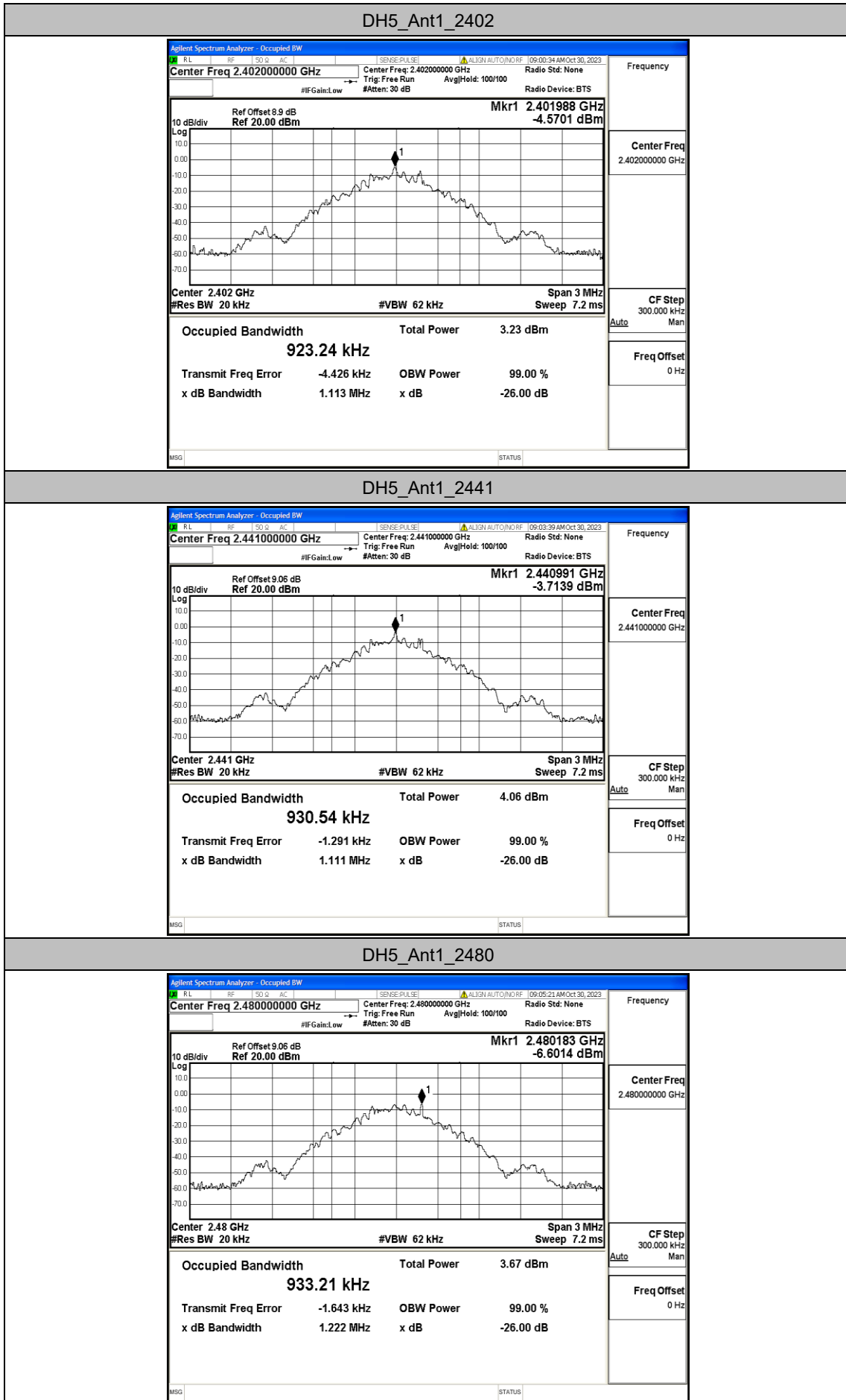


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.92324	2401.5340	2402.4572	---	---
		2441	0.93054	2440.5334	2441.4640	---	---
		2480	0.93321	2479.5318	2480.4650	---	---

Test Graphs

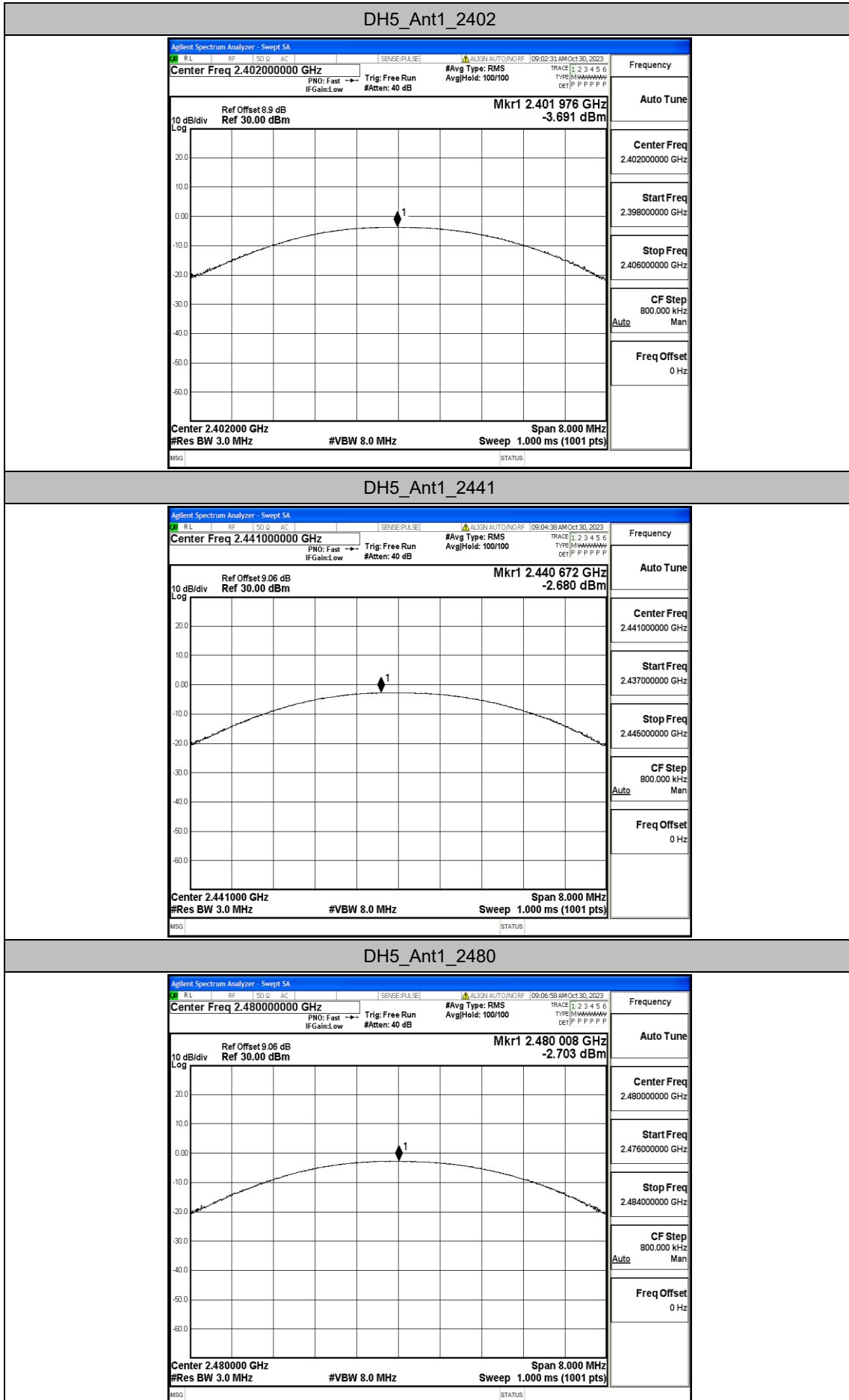


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.69	≤20.97	PASS
		2441	-2.68	≤20.97	PASS
		2480	-2.7	≤20.97	PASS

Test Graphs

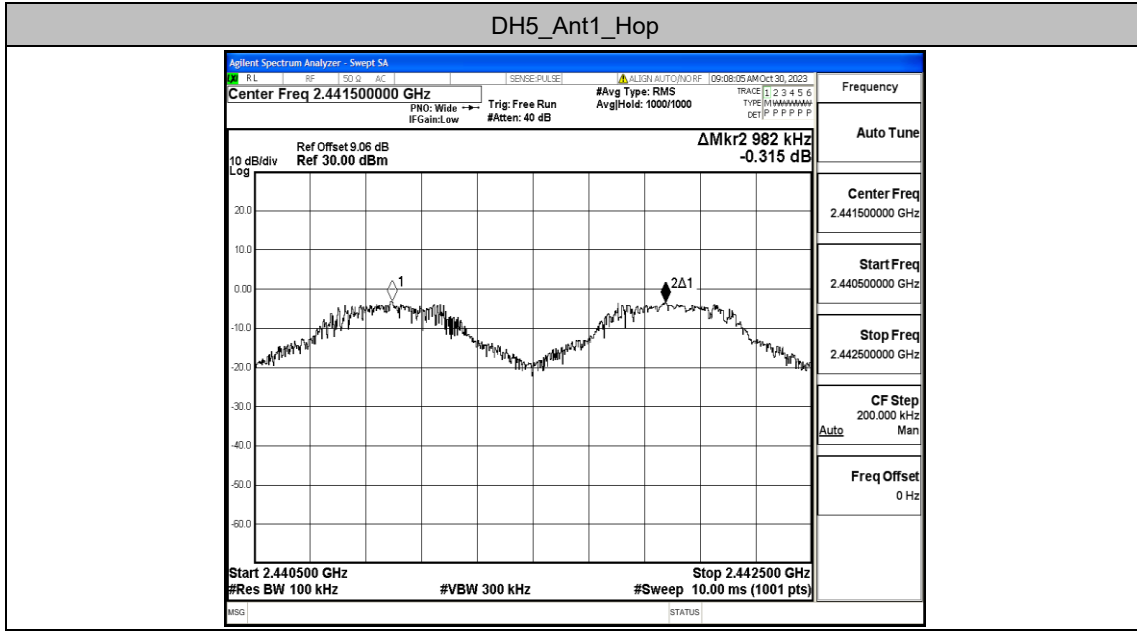


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.982	≥0.684	PASS

Test Graphs

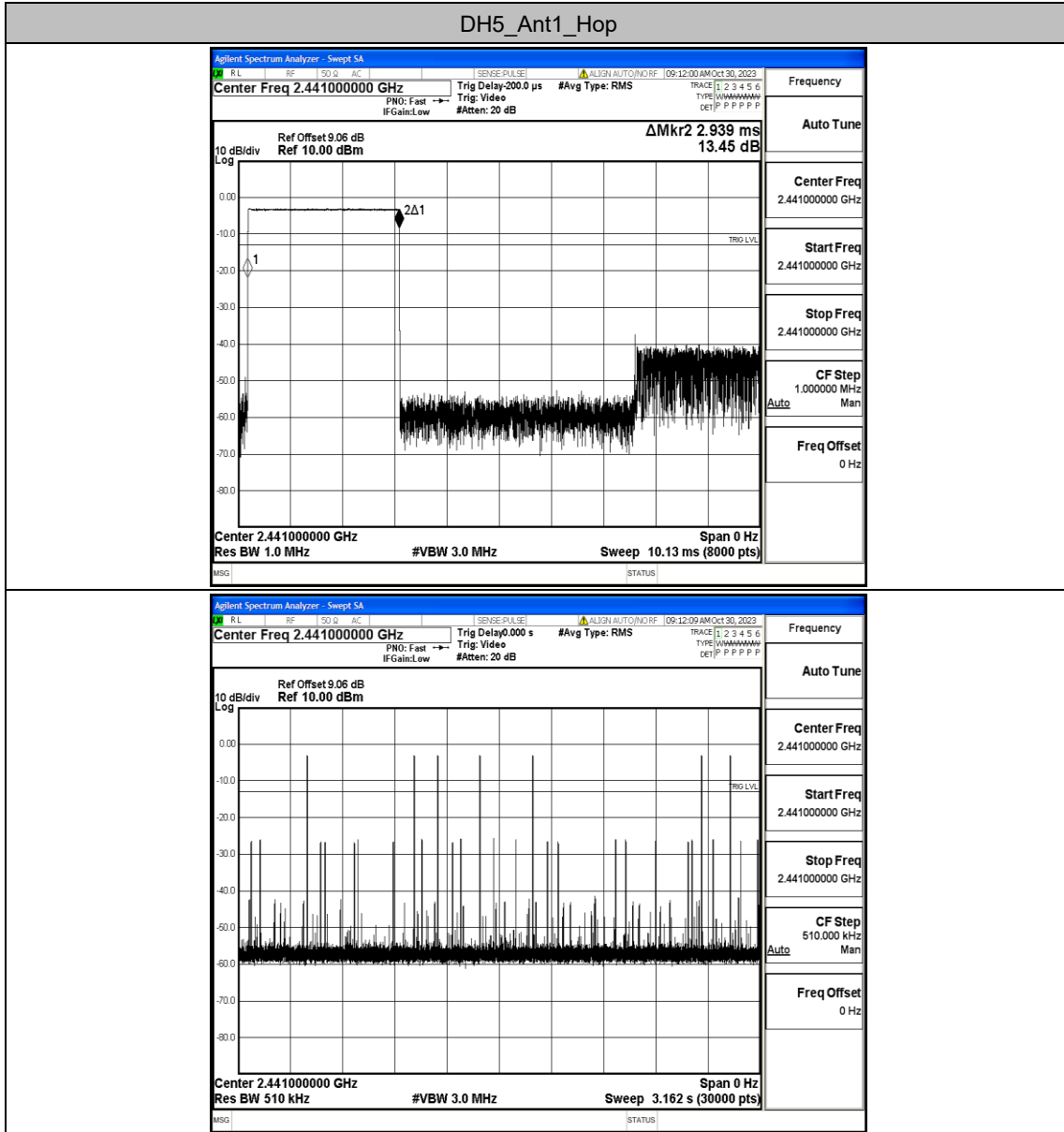


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.939	90	0.265	≤0.4	PASS

Test Graphs

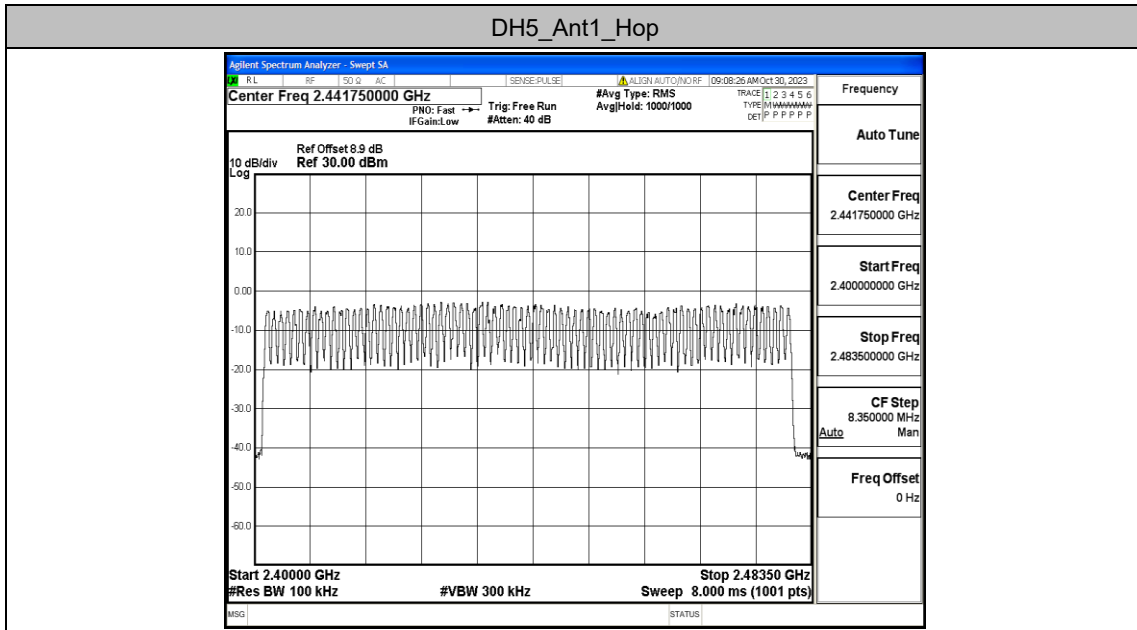


Appendix F: Number of hopping channels

Test Result

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

Test Graphs



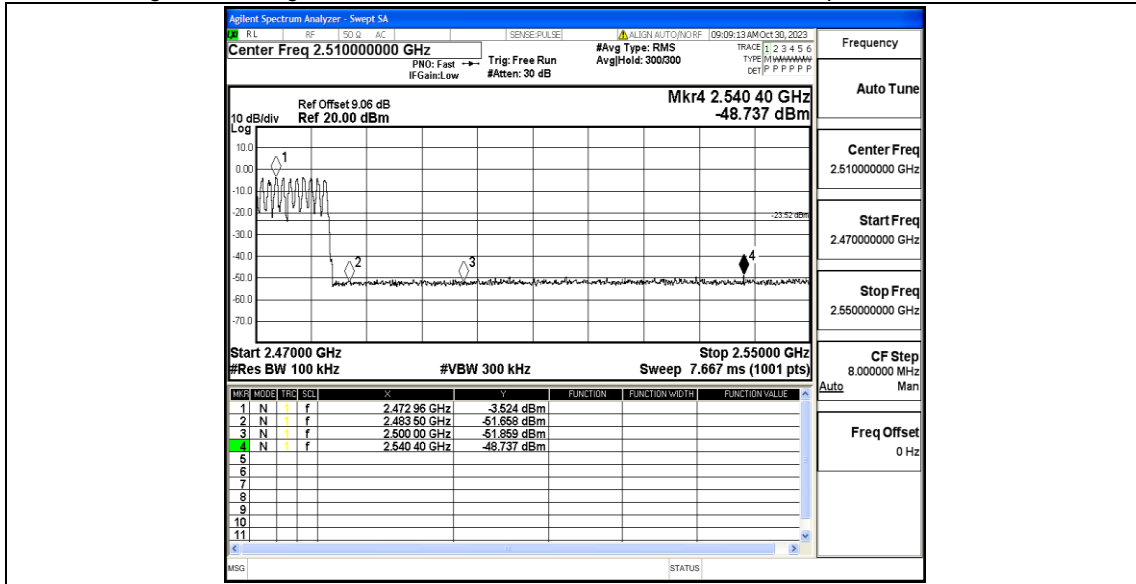
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.06	-48.73	≤-24.06	PASS
		High	2480	-3.22	-48.85	≤-23.22	PASS
		Low	Hop_2402	-5.17	-49.89	≤-25.17	PASS
		High	Hop_2480	-3.52	-48.74	≤-23.52	PASS

Test Graphs



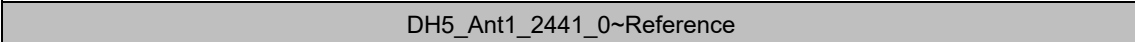
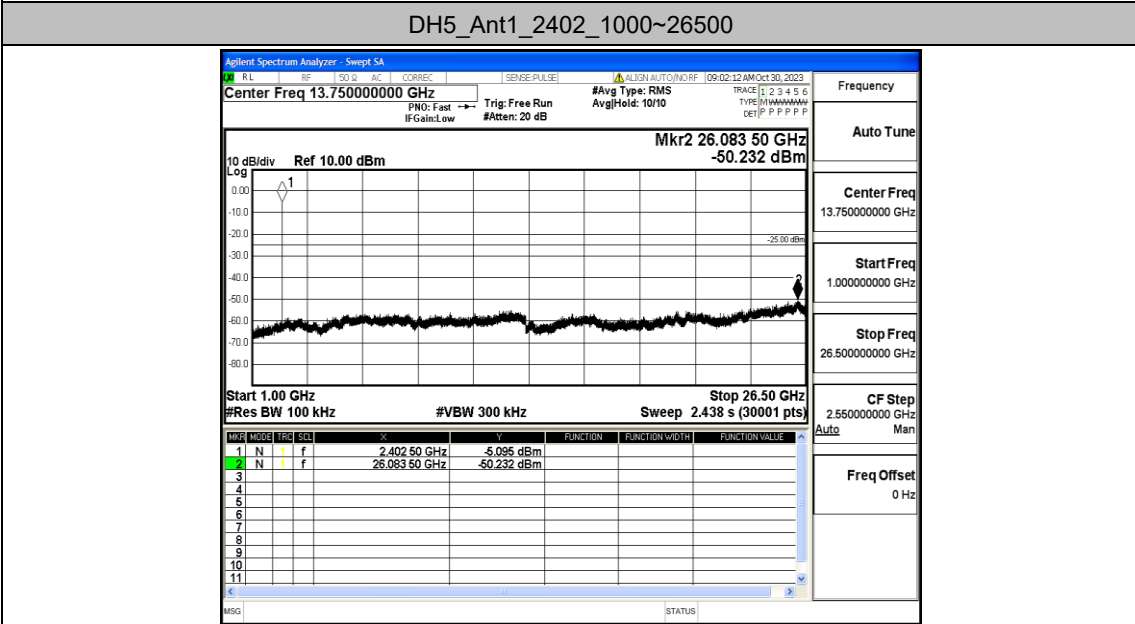
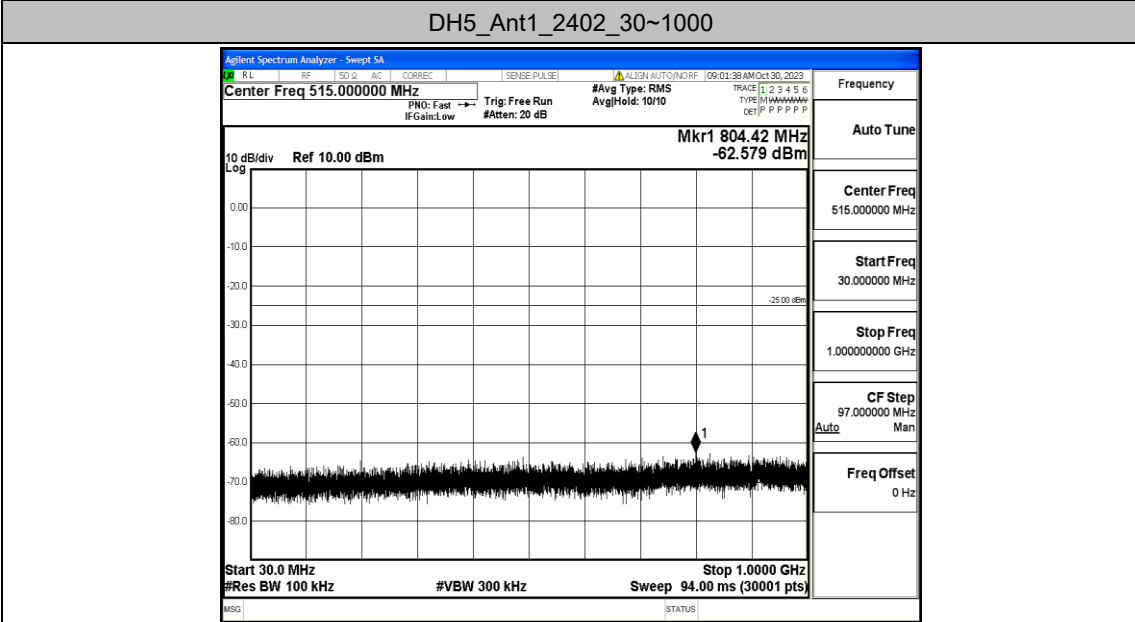
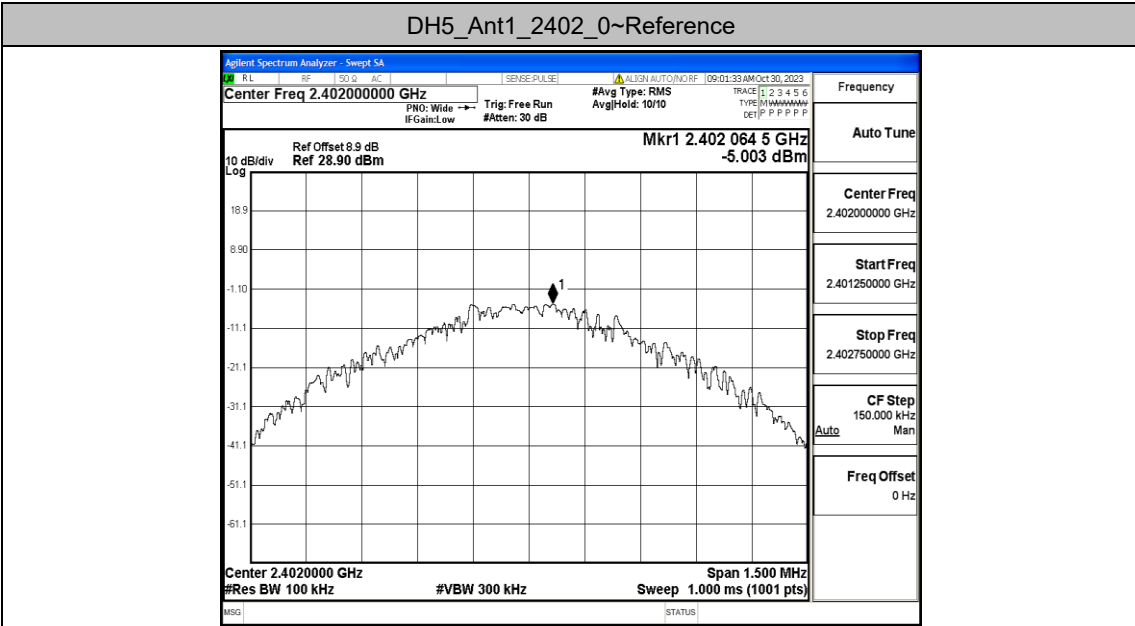


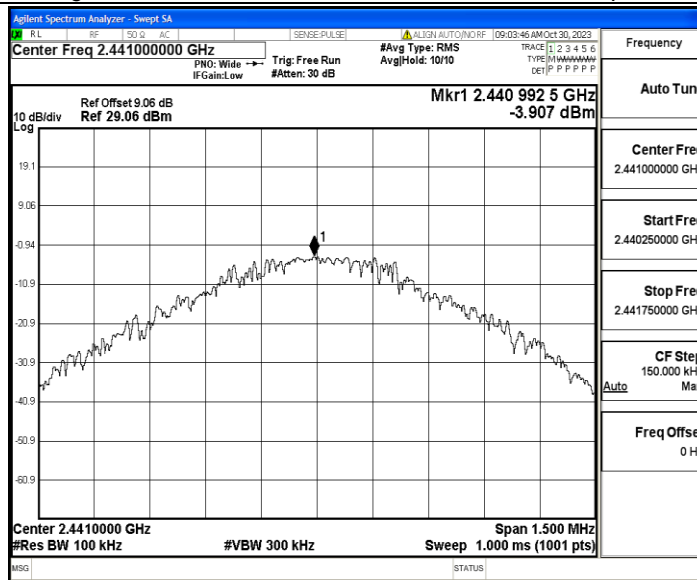
Appendix H: Conducted Spurious Emission

Test Result

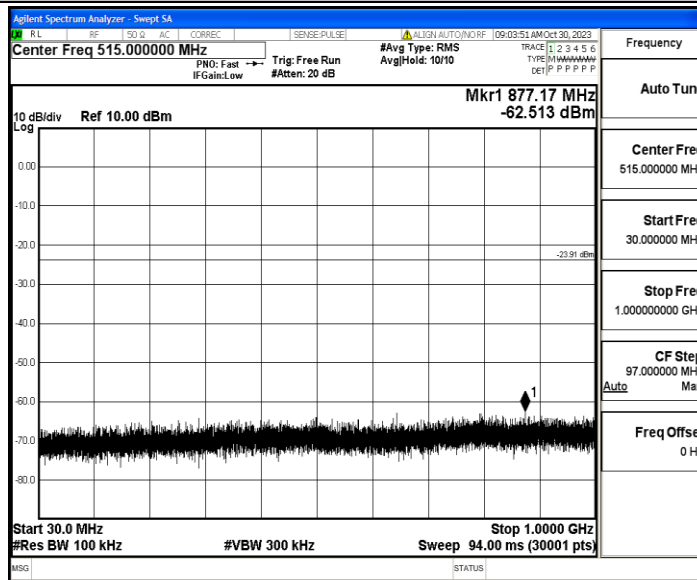
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-62.58	≤-25	PASS
			1000~26500	-5.00	-50.23	≤-25	PASS
		2441	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-62.51	≤-23.91	PASS
			1000~26500	-3.91	-50.01	≤-23.91	PASS
		2480	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-62.41	≤-24.08	PASS
			1000~26500	-4.08	-50.73	≤-24.08	PASS

Test Graphs

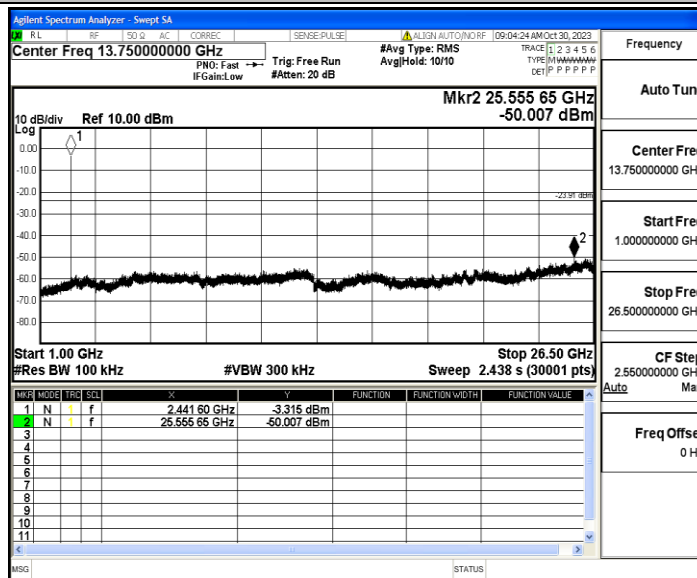




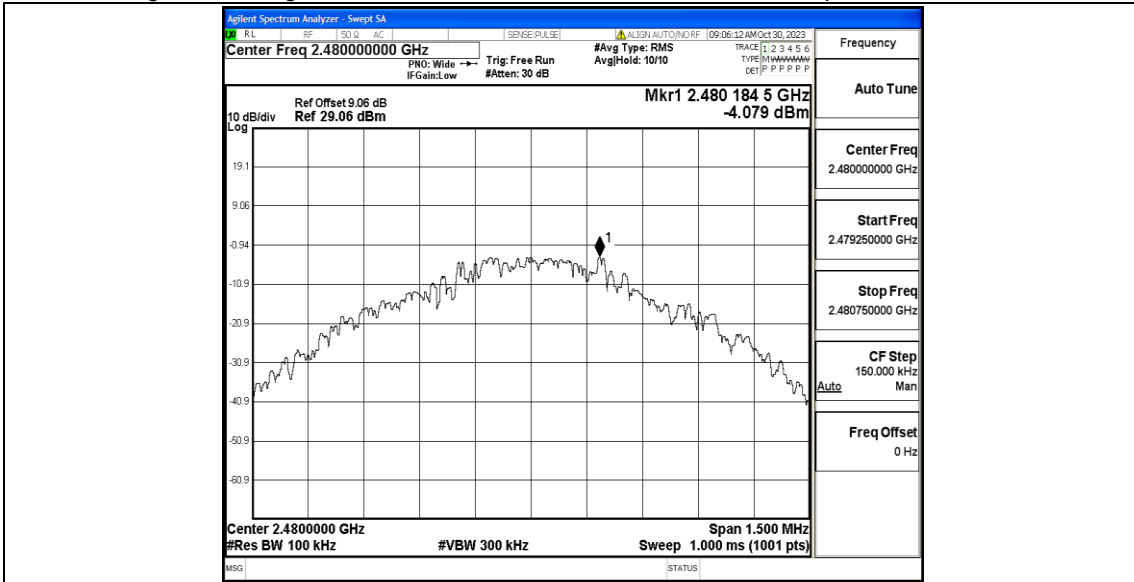
DH5_Ant1_2441_30~1000



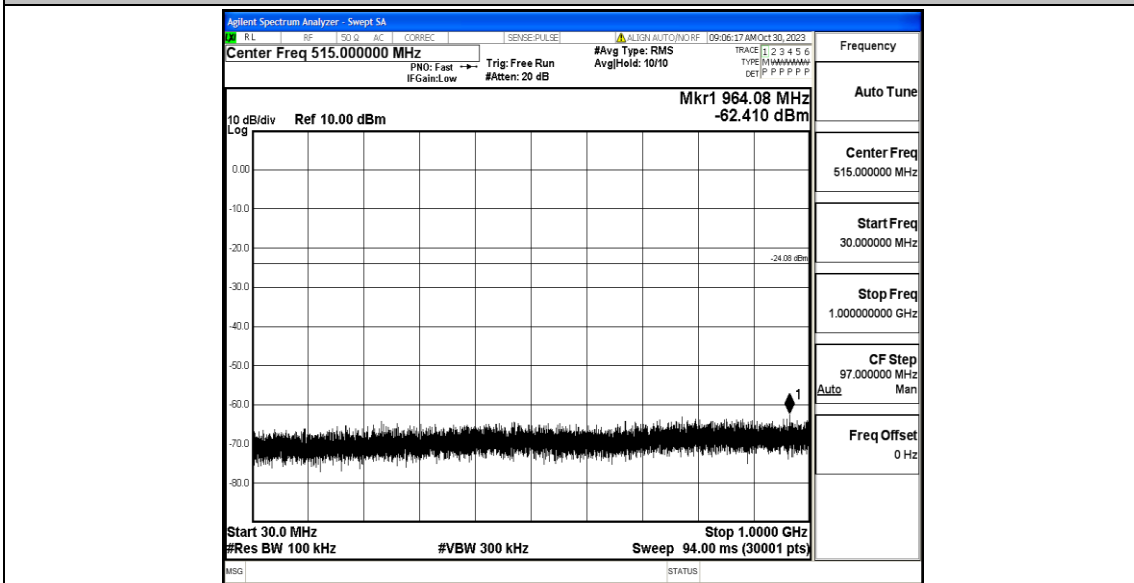
DH5_Ant1_2441_1000~26500



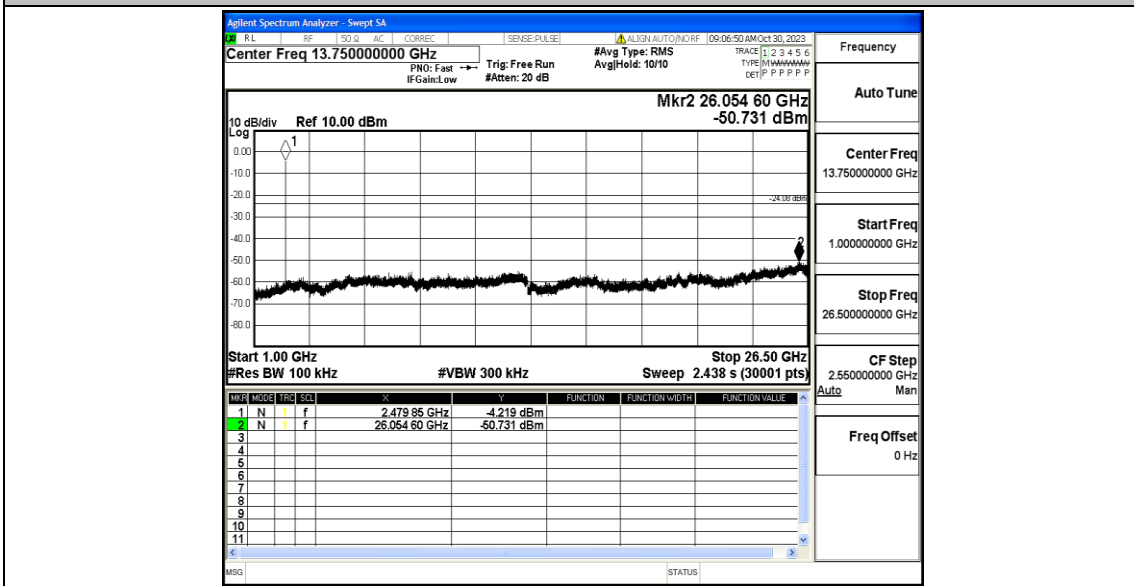
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

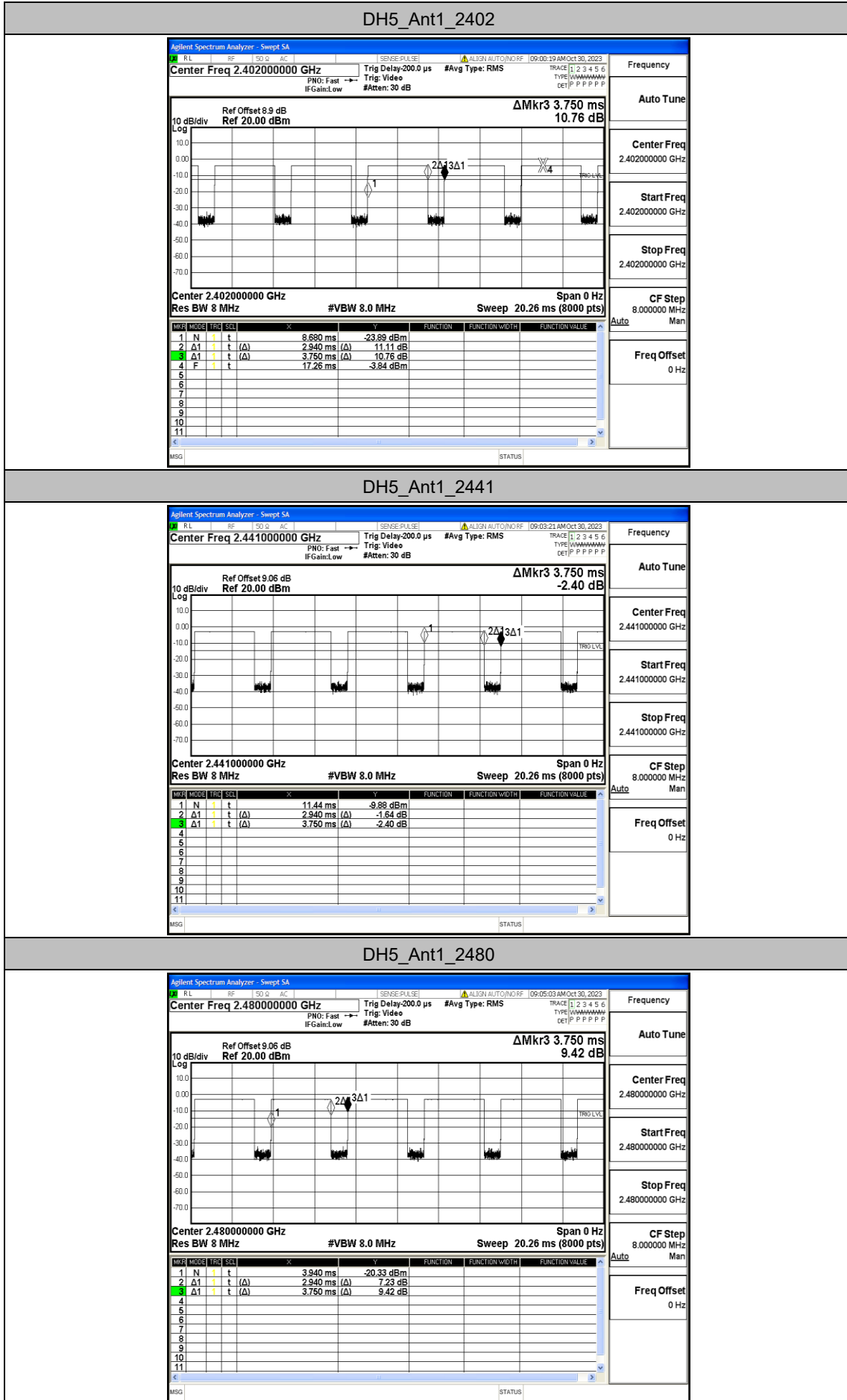


Appendix I: Duty Cycle

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



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	-49.51	≤-41.20	PASS
				AV	2389.565	-49.11	≤-41.20	PASS
				AV	2390.000	-49.22	≤-41.20	PASS
				Peak	2310.000	-41.16	≤-21.20	PASS
				Peak	2326.355	-39.84	≤-21.20	PASS
				Peak	2390.000	-41.72	≤-21.20	PASS
		High	2480	AV	2483.500	-48.39	≤-41.20	PASS
				AV	2498.720	-48.38	≤-41.20	PASS
				AV	2500.000	-48.43	≤-41.20	PASS
				Peak	2483.500	-42.69	≤-21.20	PASS
				Peak	2496.720	-38.94	≤-21.20	PASS
				Peak	2500.000	-39.8	≤-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

