

## 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

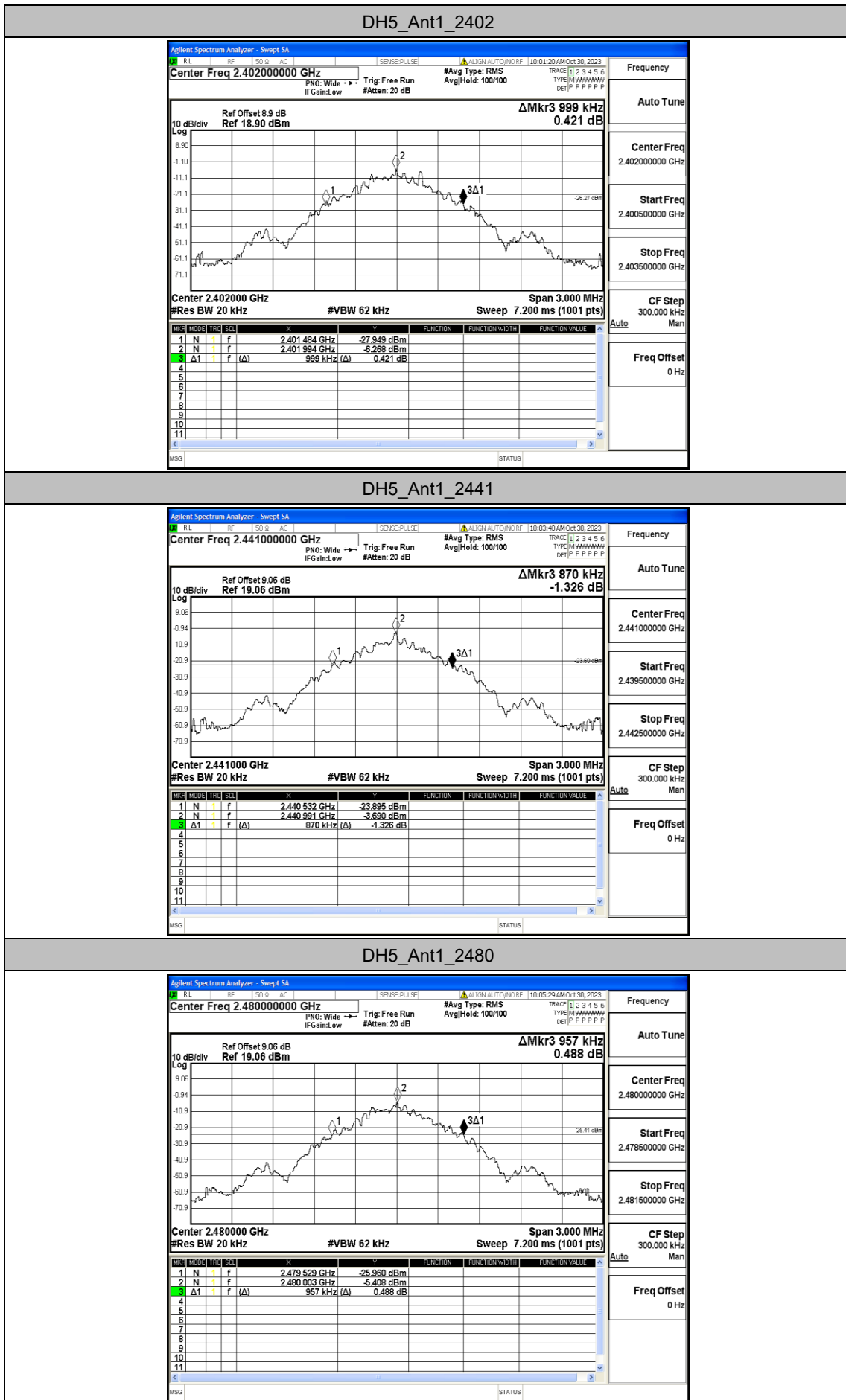
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

## 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

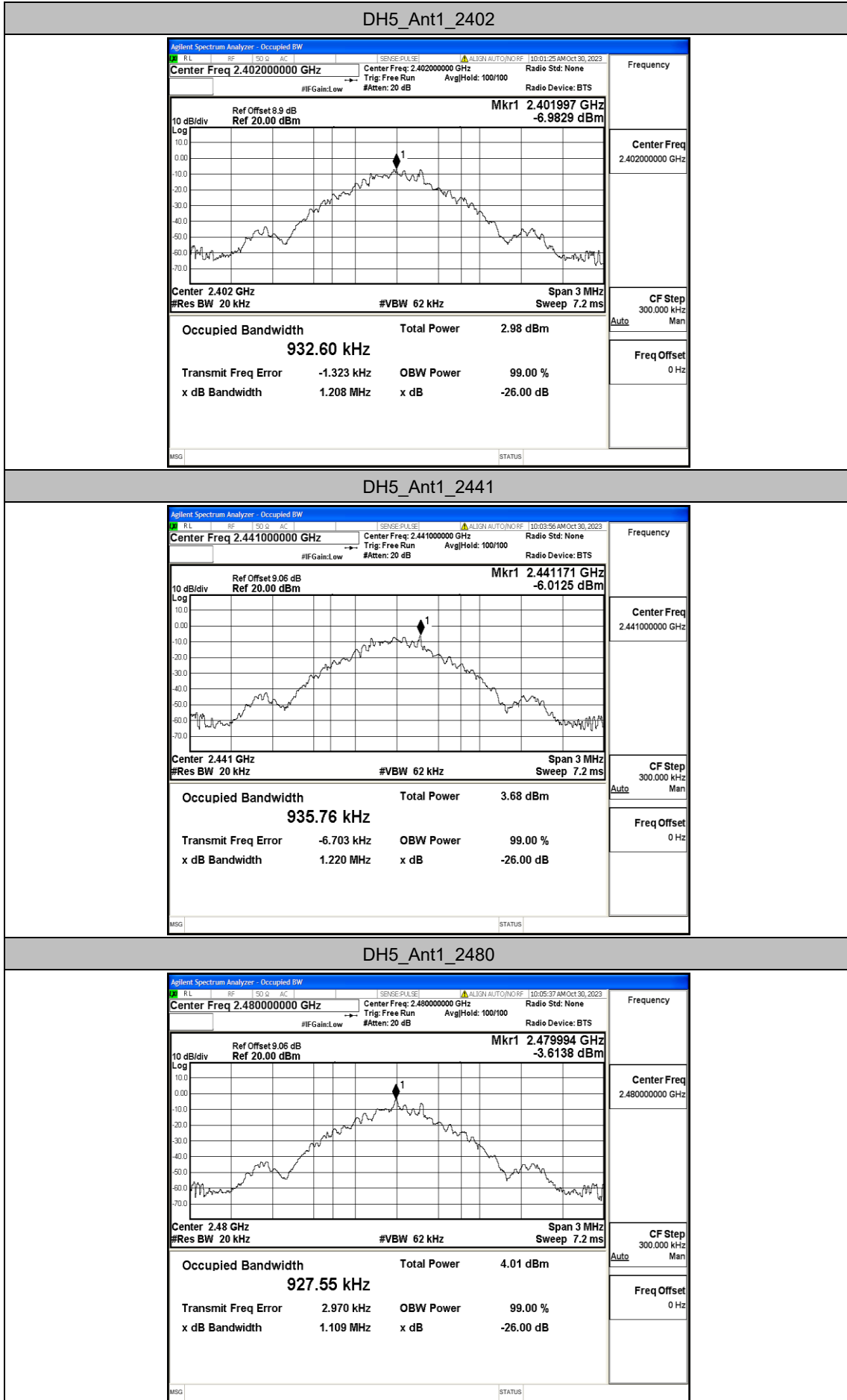


## Appendix B: Occupied Channel Bandwidth

### 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

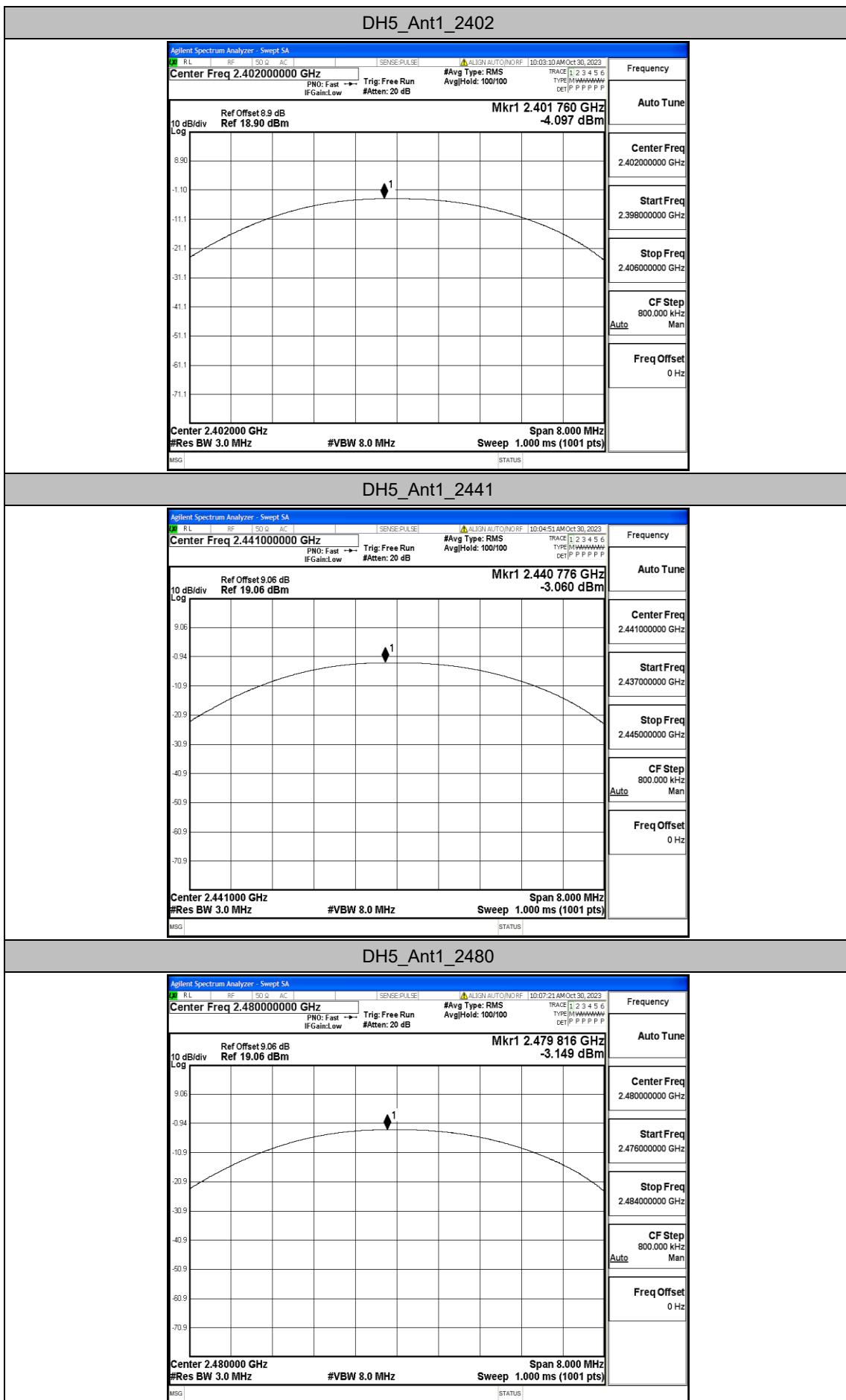


## Appendix C: Maximum Peak conducted output power

### 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

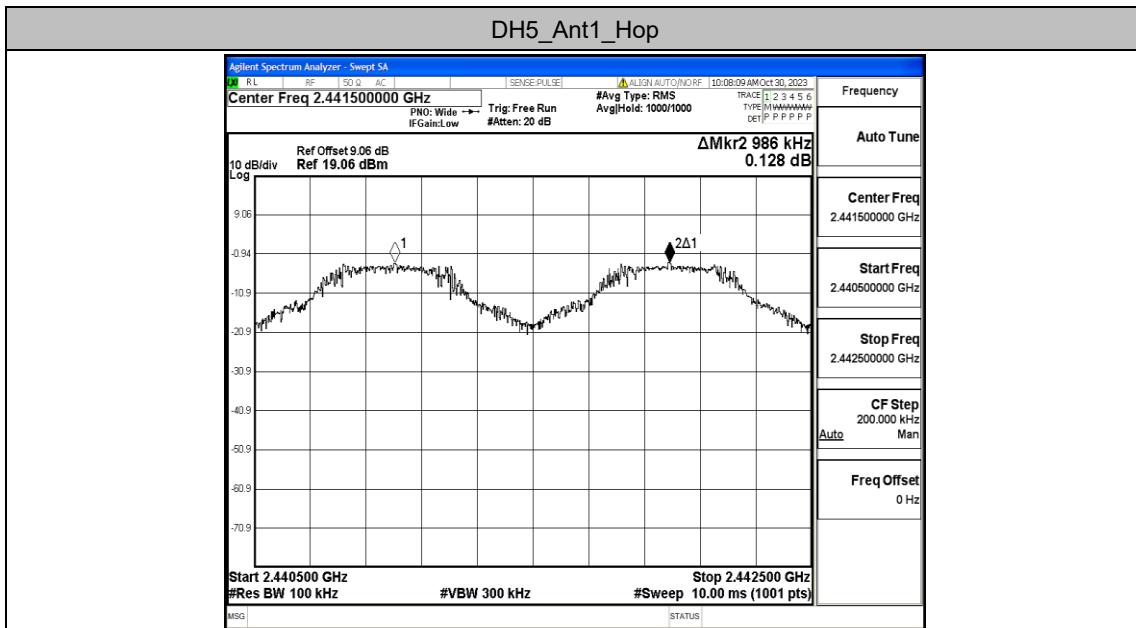


## Appendix D: Carrier frequency separation

### Test Result

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

### Test Graphs



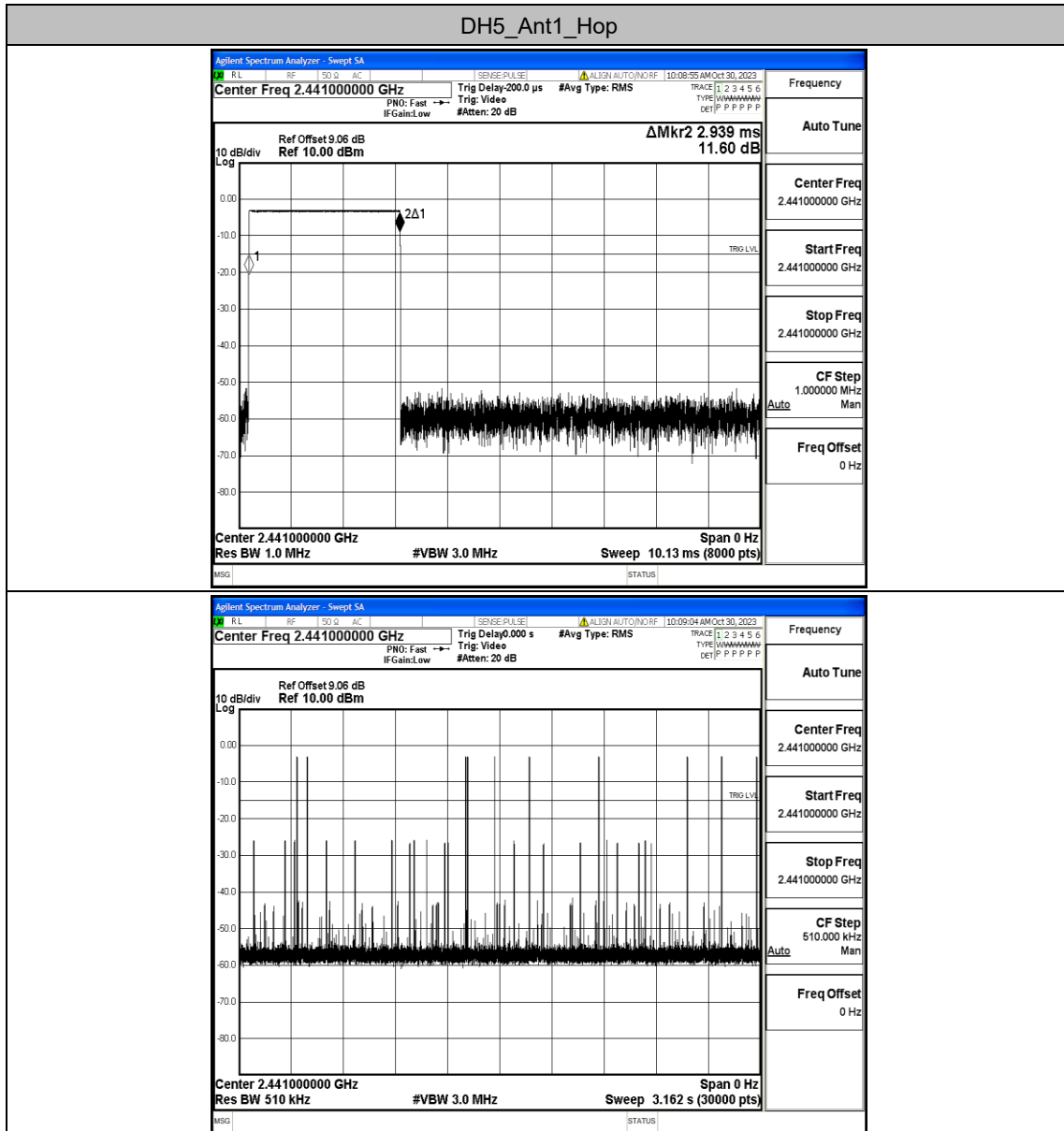


## Appendix E: Time of occupancy

### 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

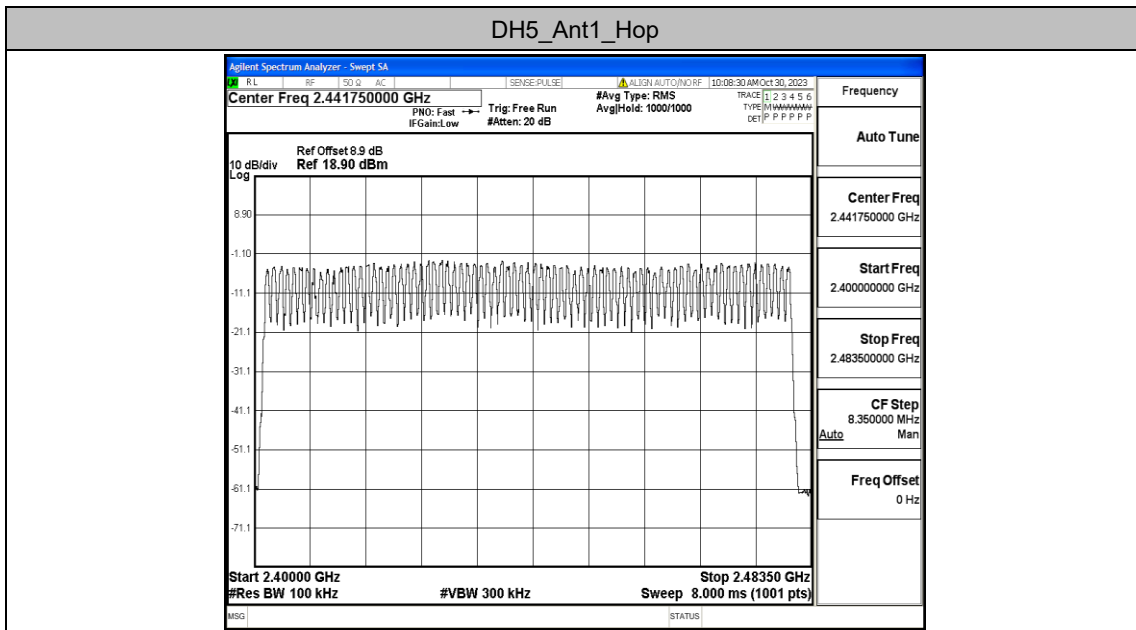


## Appendix F: Number of hopping channels

### Test Result

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

### Test Graphs



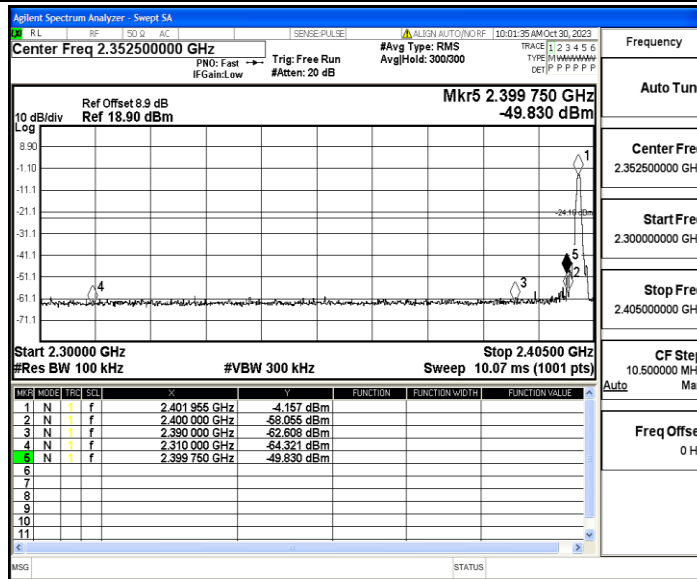
## Appendix G: Band edge measurements

### Test Result

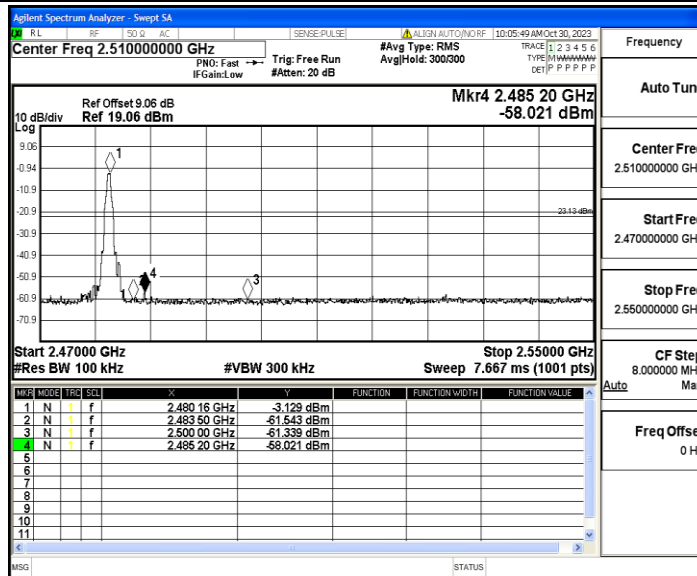
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.16	-49.83	≤-24.16	PASS
		High	2480	-3.13	-58.02	≤-23.13	PASS
		Low	Hop_2402	-5.24	-57.59	≤-25.24	PASS
		High	Hop_2480	-3.22	-58.81	≤-23.22	PASS

Test Graphs

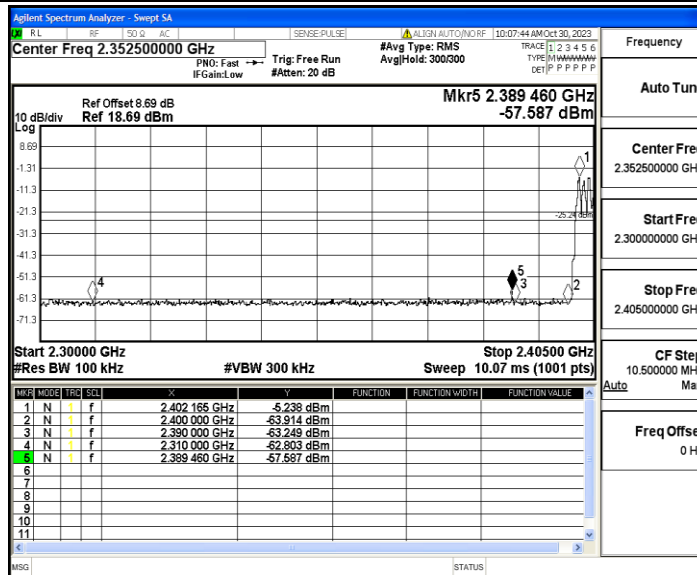
DH5\_Ant1\_Low\_2402



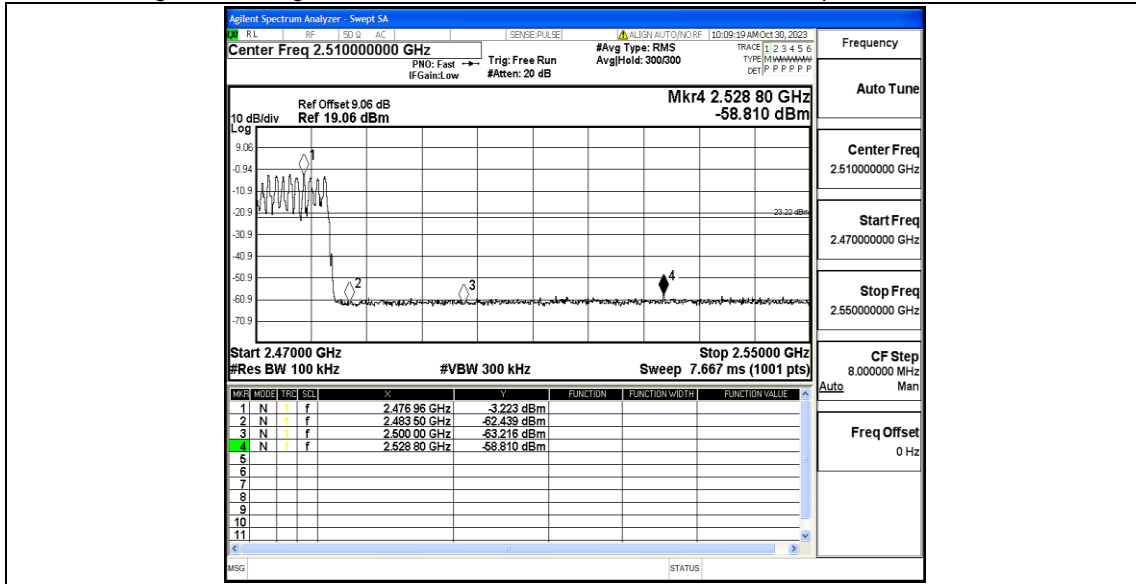
DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop\_2402



DH5\_Ant1\_High\_Hop\_2480



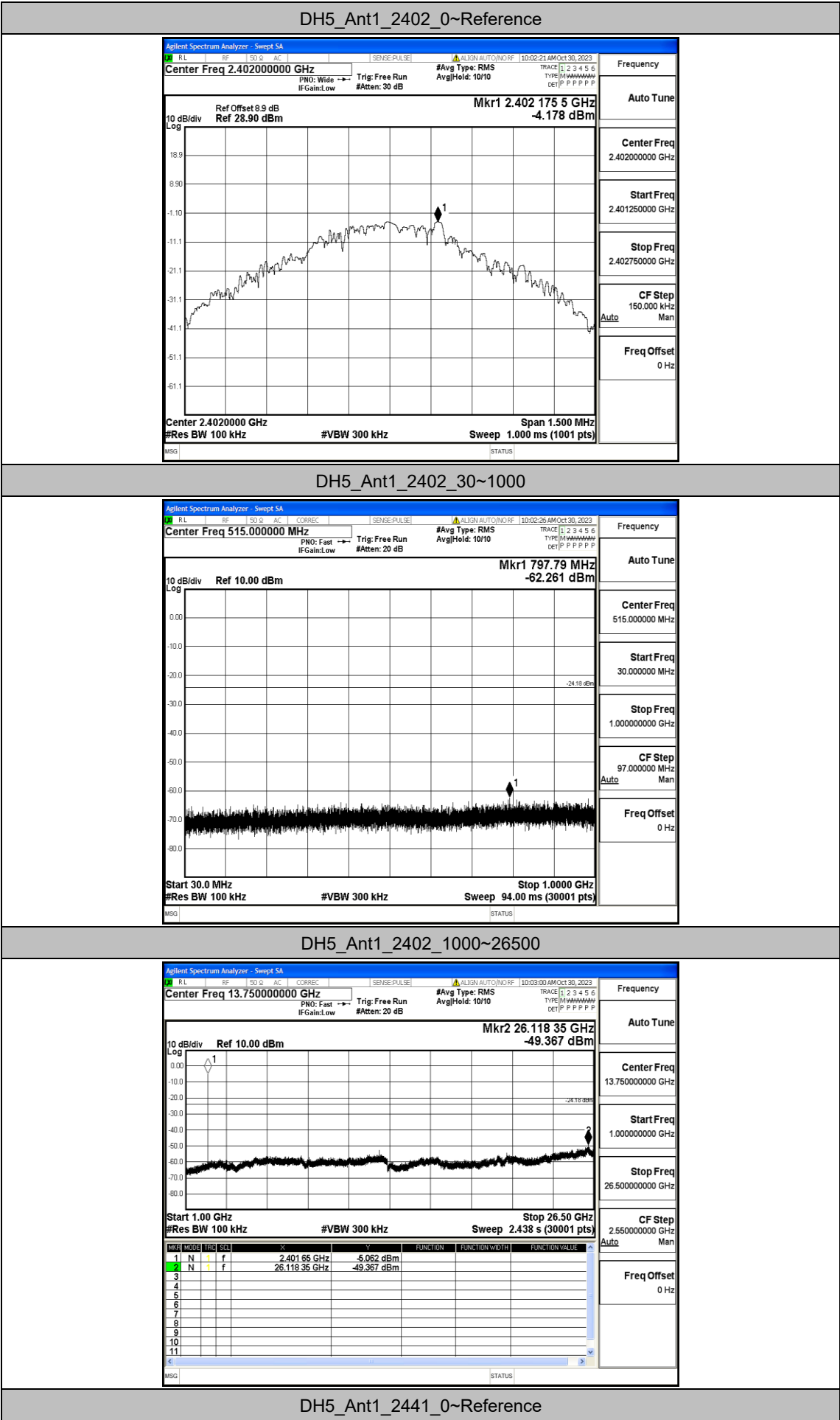
## Appendix H: Conducted Spurious Emission

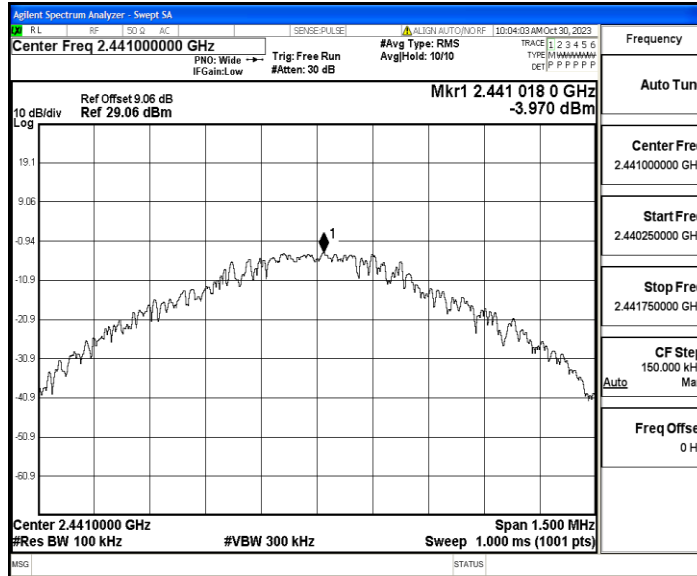
### Test Result

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

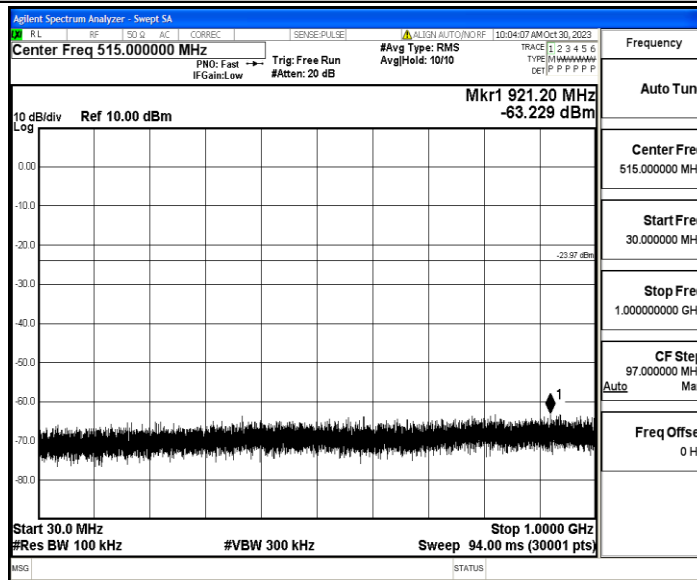


Test Graphs

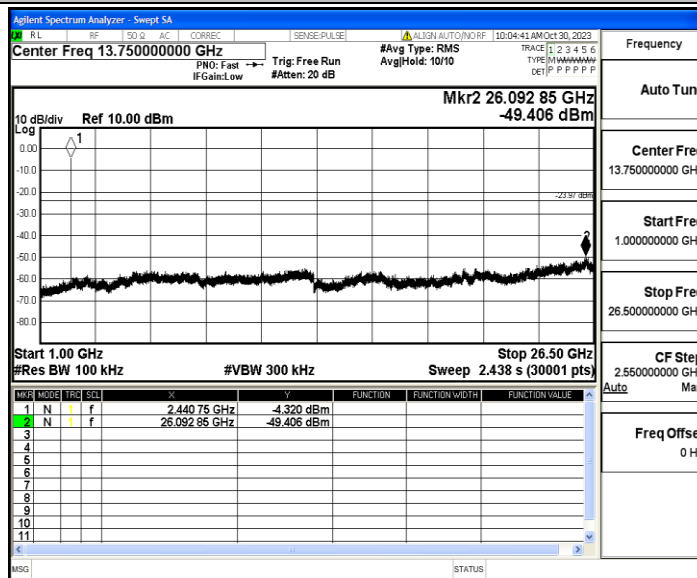




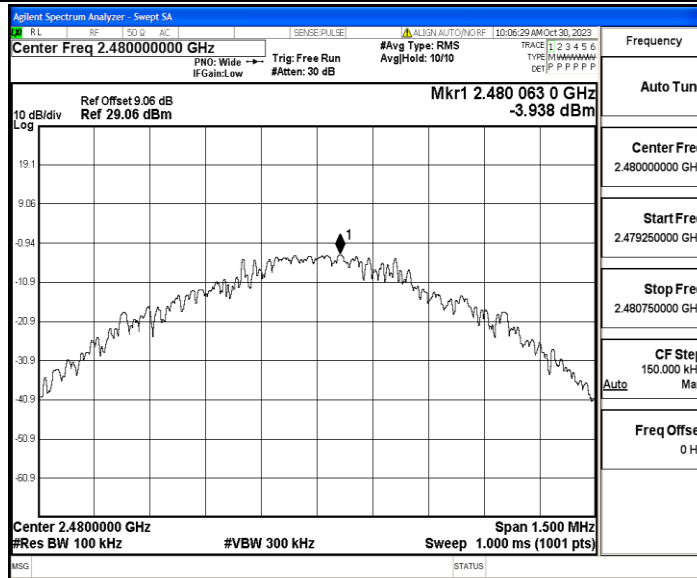
DH5\_Ant1\_2441\_30~1000



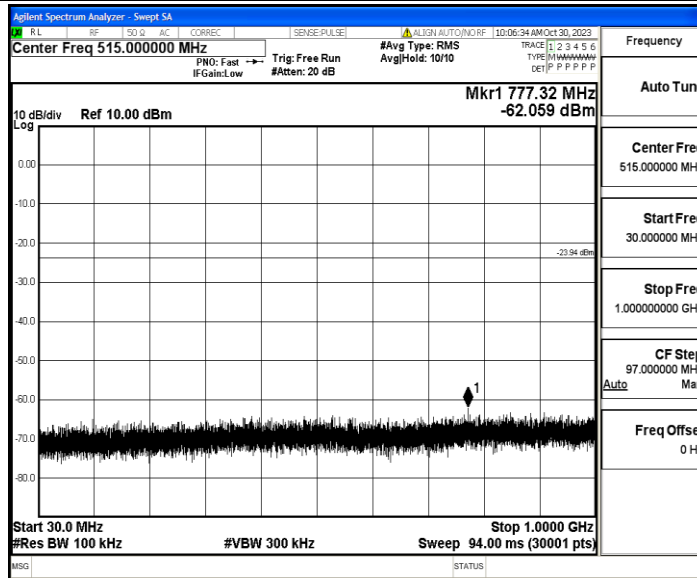
DH5\_Ant1\_2441\_1000~26500



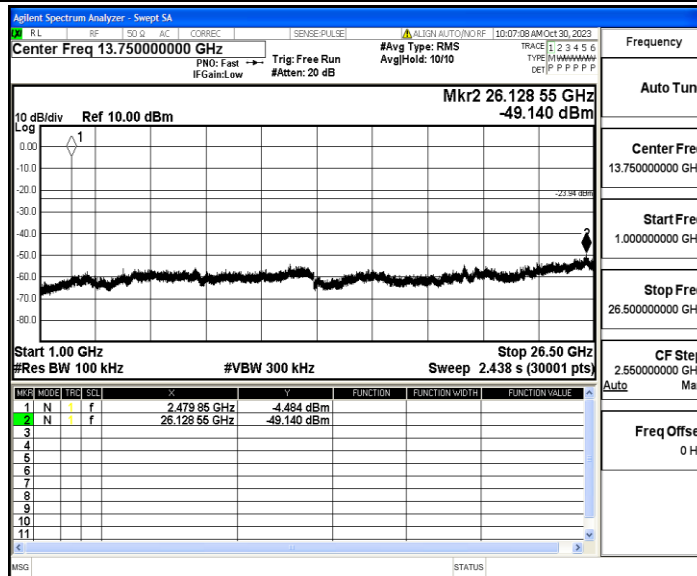
DH5\_Ant1\_2480\_0~Reference



DH5\_Ant1\_2480\_30~1000



DH5\_Ant1\_2480\_1000~26500

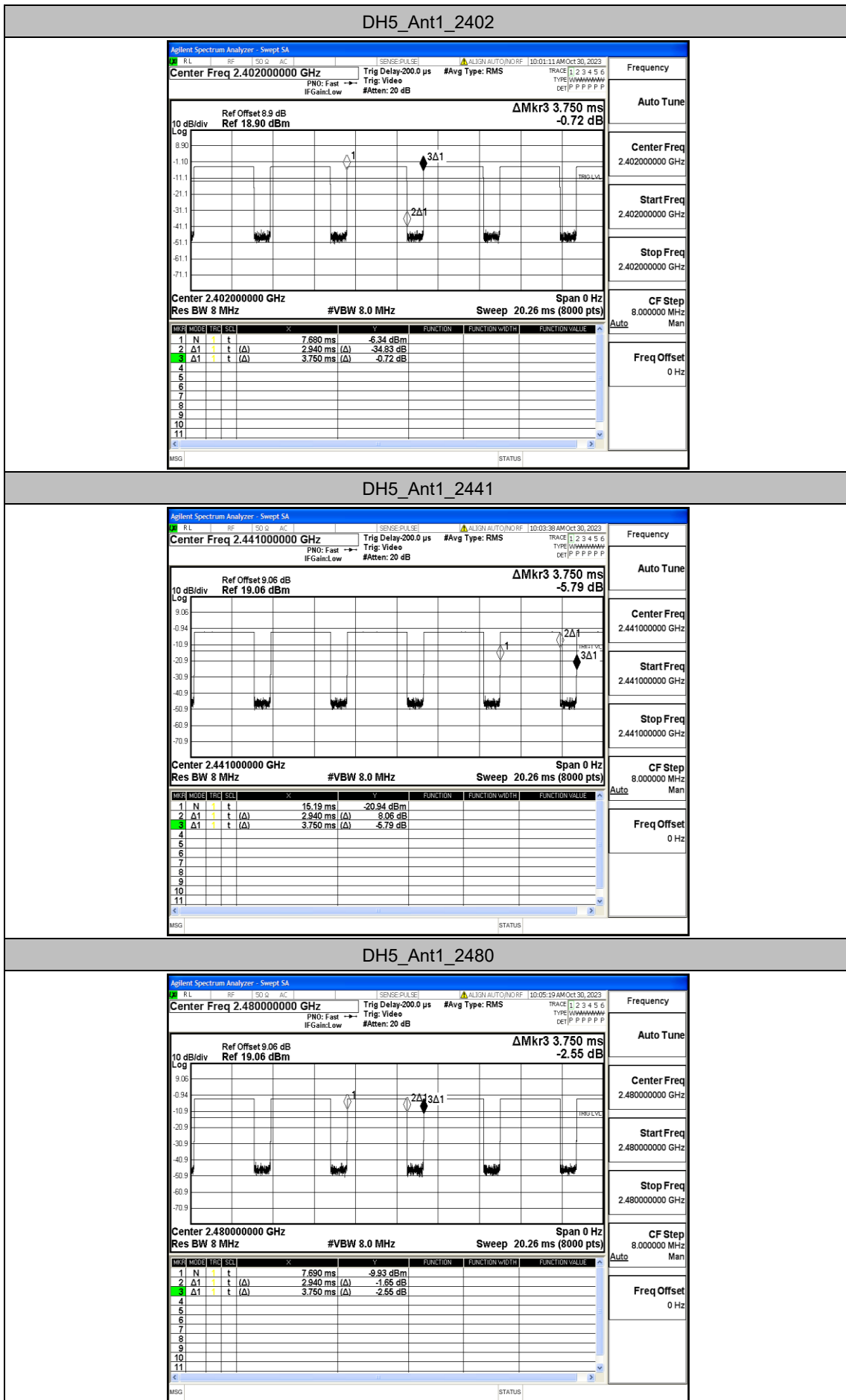


## Appendix I: Duty Cycle

### 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	-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

