

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

Product Name: Bluetooth mechanical Keyboard

Trade Mark: Keychron

Test Model: Keychron K3 pro

FCC ID: 2ASF4-K3PRO

### Environmental Conditions

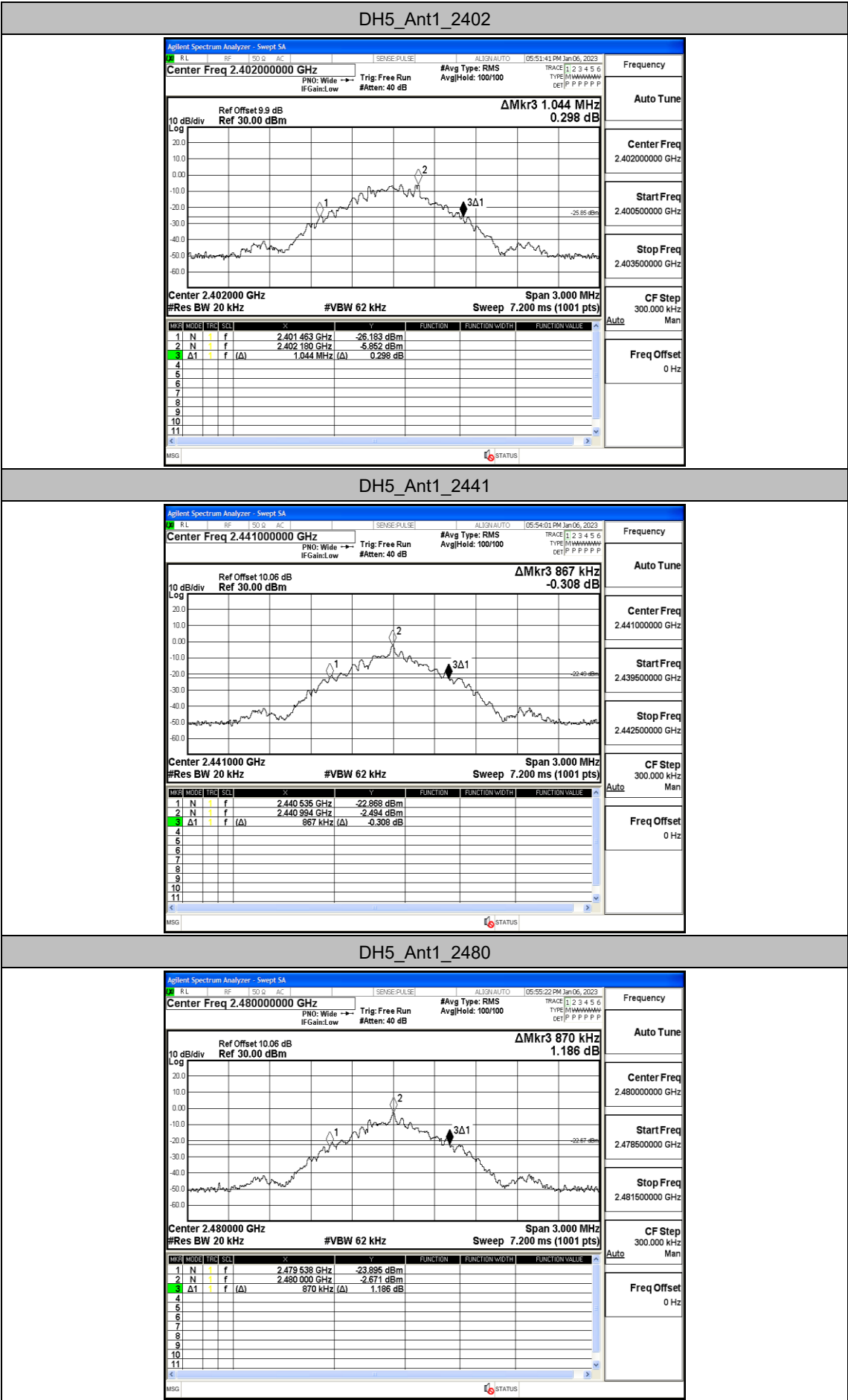
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

### Appendix A: 20dB Emission Bandwidth

#### Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.044	2401.463	2402.507	---	---
		2441	0.867	2440.535	2441.402	---	---
		2480	0.870	2479.538	2480.408	---	---

Test Graphs

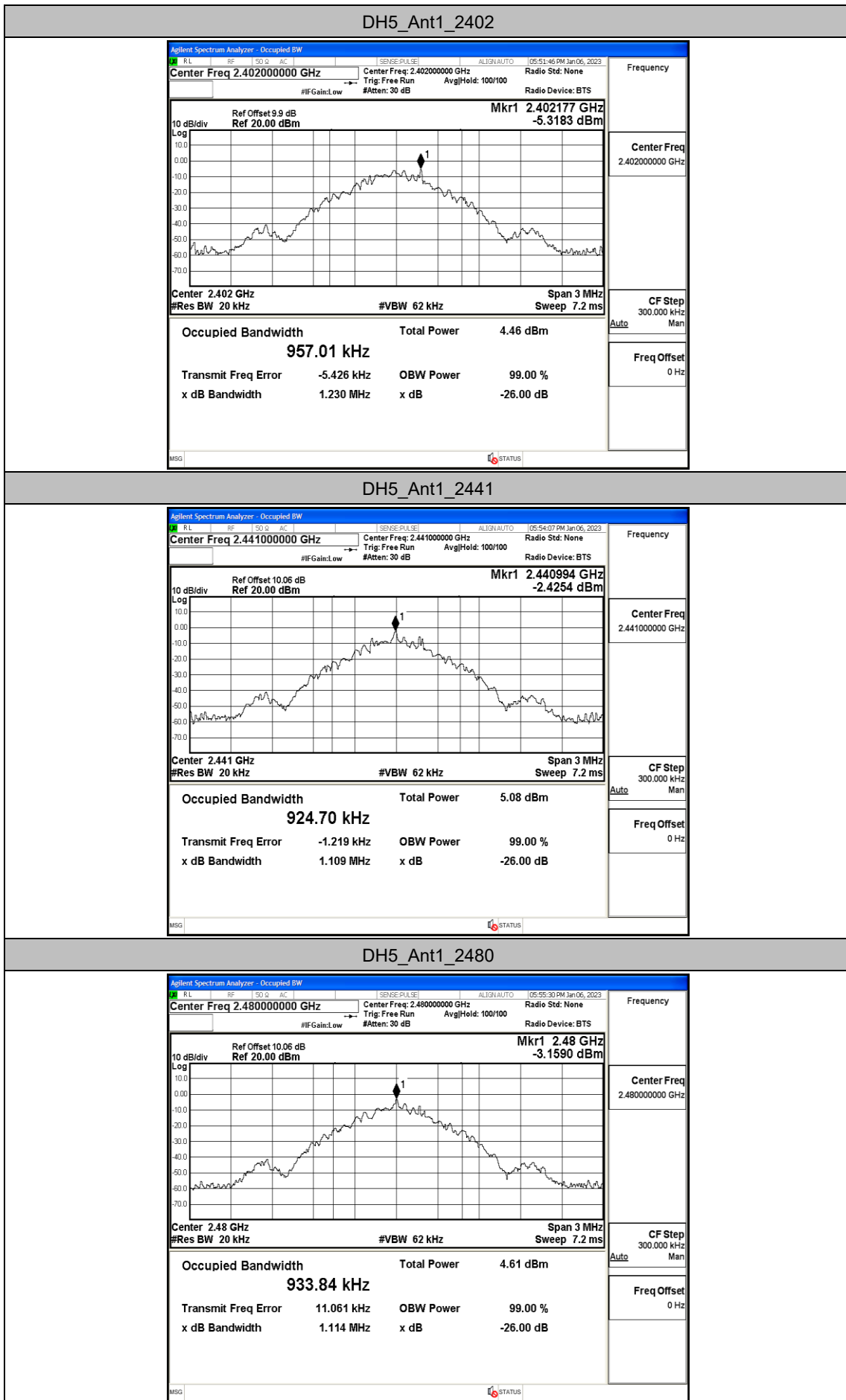


## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95701	2401.5161	2402.4731	---	---
		2441	0.92470	2440.5364	2441.4611	---	---
		2480	0.93384	2479.5441	2480.4780	---	---

Test Graphs

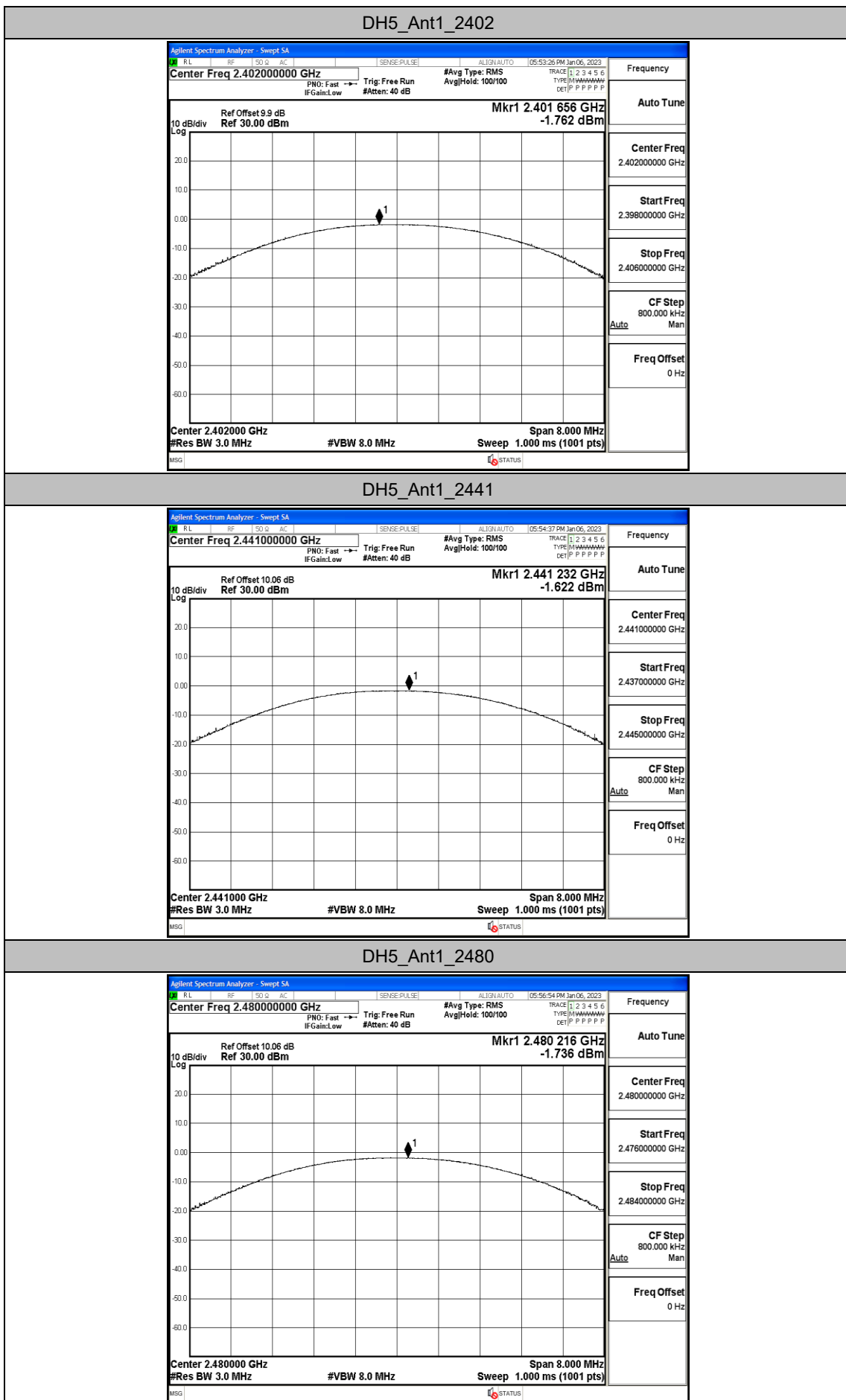


## Appendix C: Maximum Peak conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.76	≤20.97	PASS
		2441	-1.62	≤20.97	PASS
		2480	-1.74	≤20.97	PASS

### Test Graphs

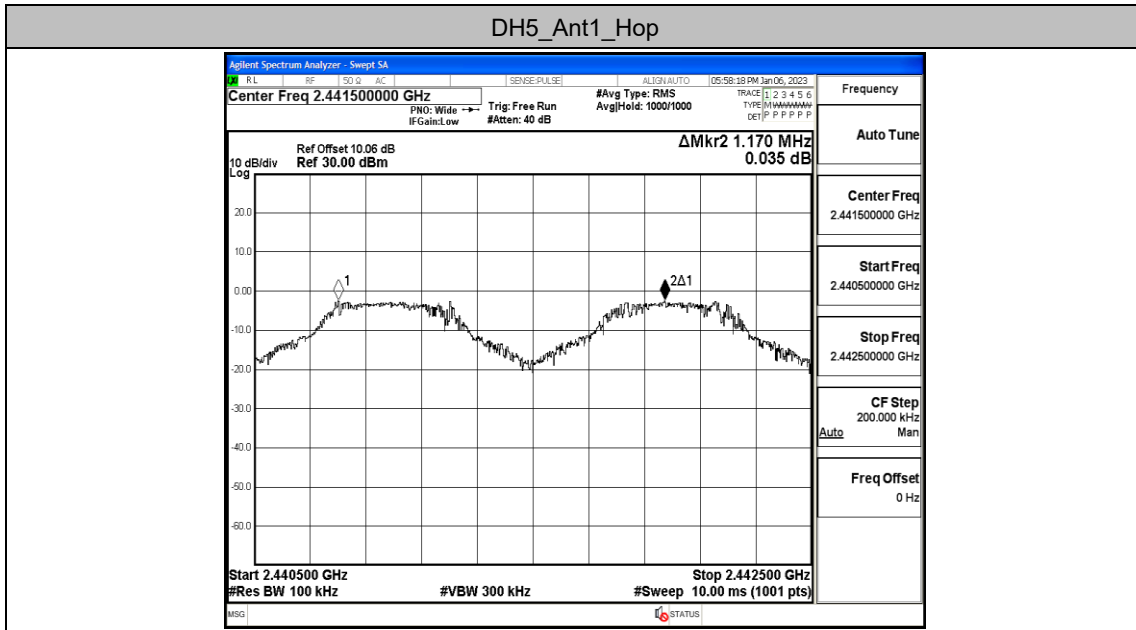


## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.17	$\geq 1.044$	PASS

### Test Graphs



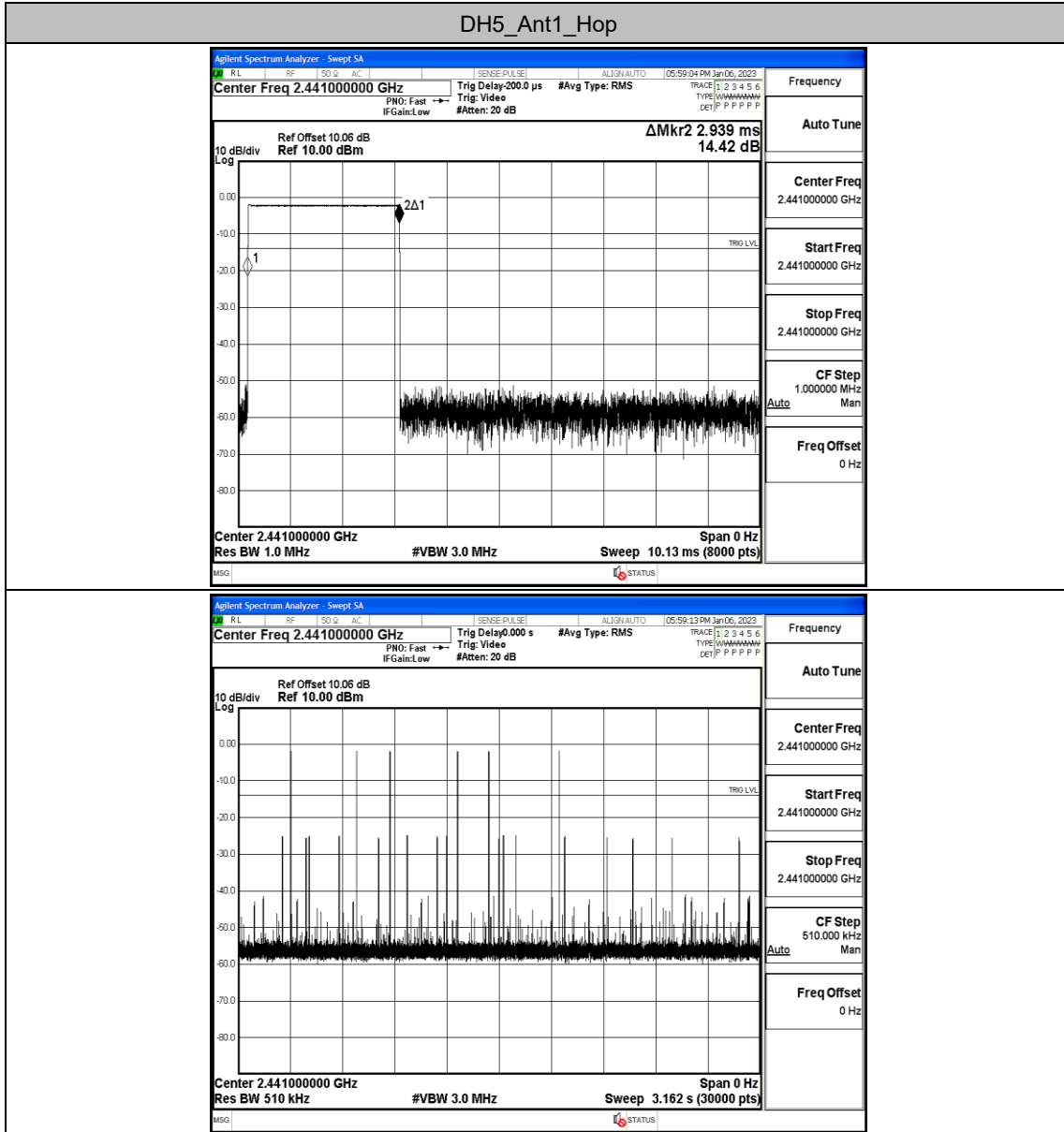


## Appendix E: Time of occupancy

### Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.939	70	0.206	≤0.4	PASS

### Test Graphs

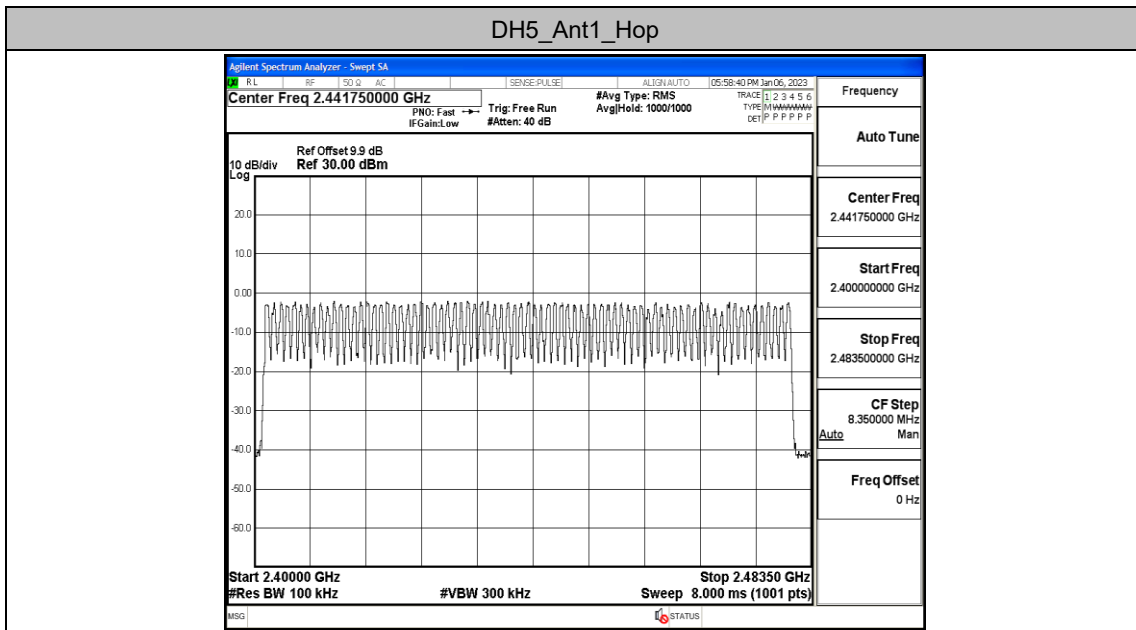


## Appendix F: Number of hopping channels

### Test Result

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

### Test Graphs



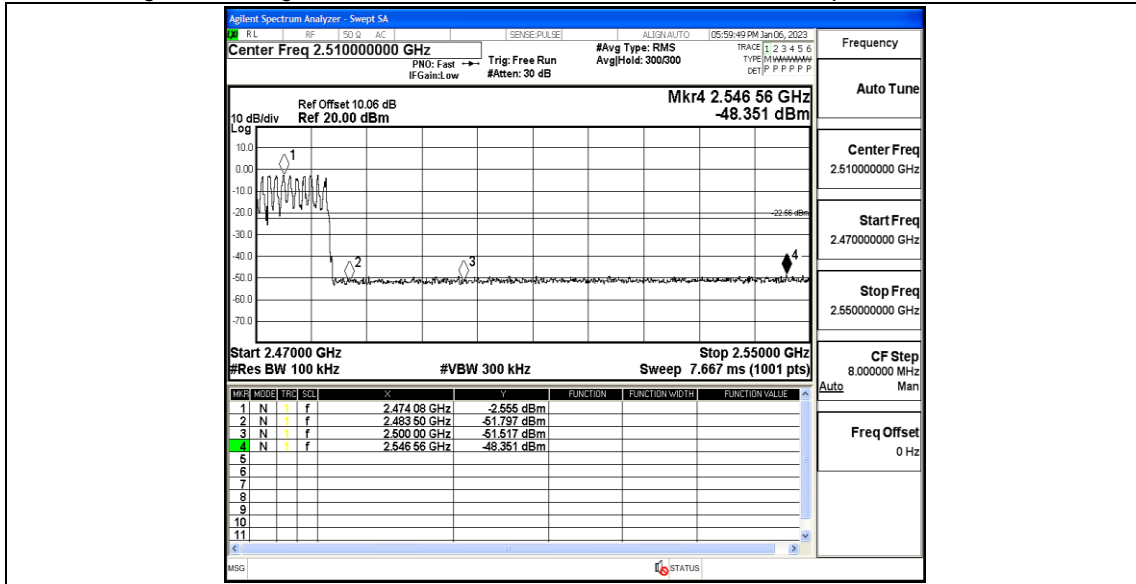
## Appendix G: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.28	-47	$\leq -22.28$	PASS
		High	2480	-2.08	-47.8	$\leq -22.08$	PASS
		Low	Hop_2402	-2.78	-49.72	$\leq -22.78$	PASS
		High	Hop_2480	-2.56	-48.35	$\leq -22.56$	PASS

Test Graphs





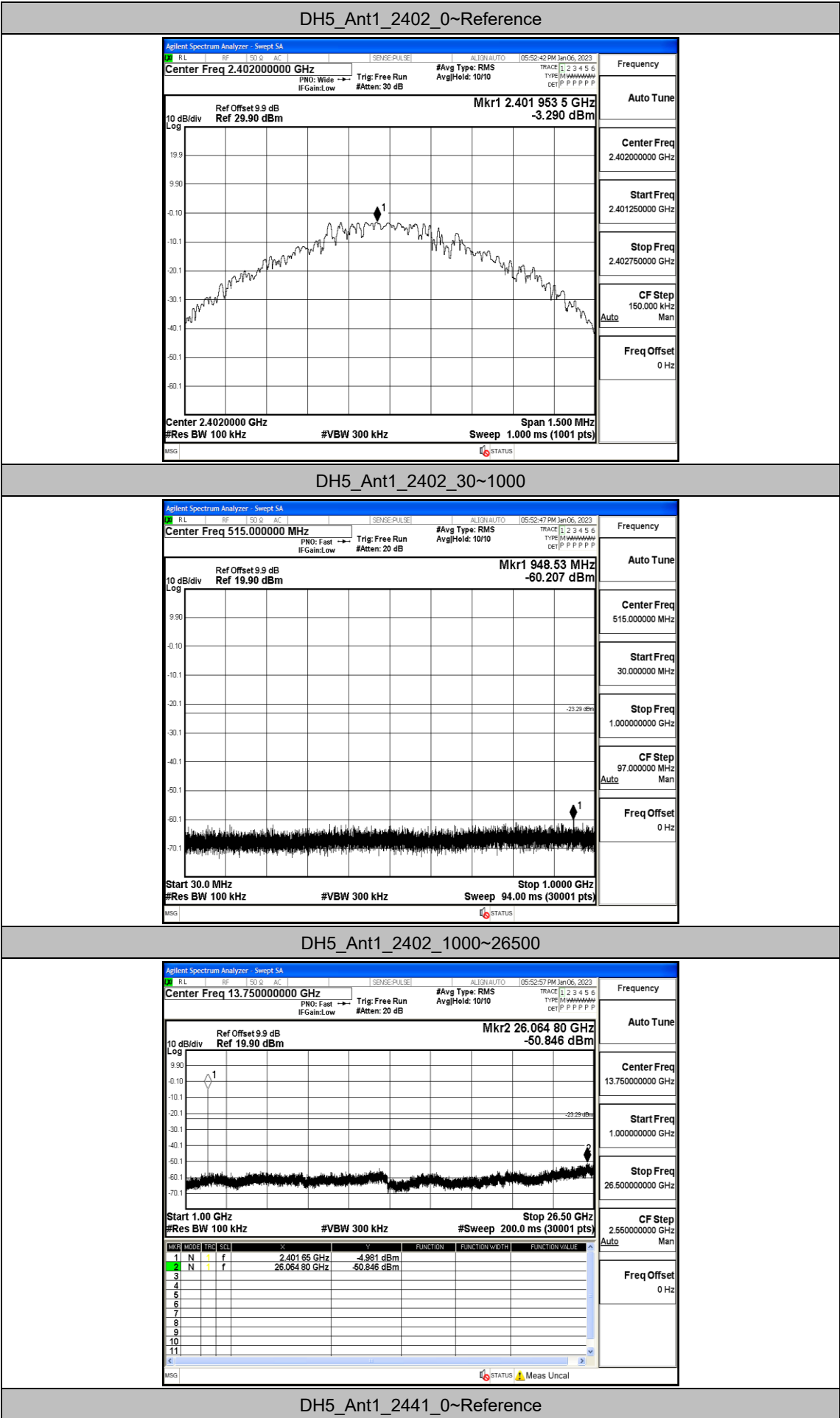
## Appendix H: Conducted Spurious Emission

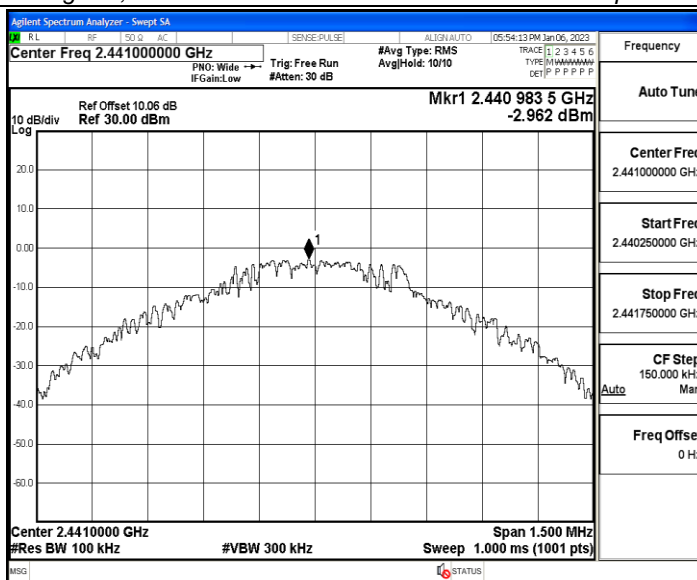
### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.29	-3.29	---	PASS
			30~1000	-3.29	-60.21	≤-23.29	PASS
			1000~26500	-3.29	-50.85	≤-23.29	PASS
		2441	Reference	-2.96	-2.96	---	PASS
			30~1000	-2.96	-60.54	≤-22.96	PASS
			1000~26500	-2.96	-50.06	≤-22.96	PASS
		2480	Reference	-3.07	-3.07	---	PASS
			30~1000	-3.07	-60.23	≤-23.07	PASS
			1000~26500	-3.07	-49.62	≤-23.07	PASS

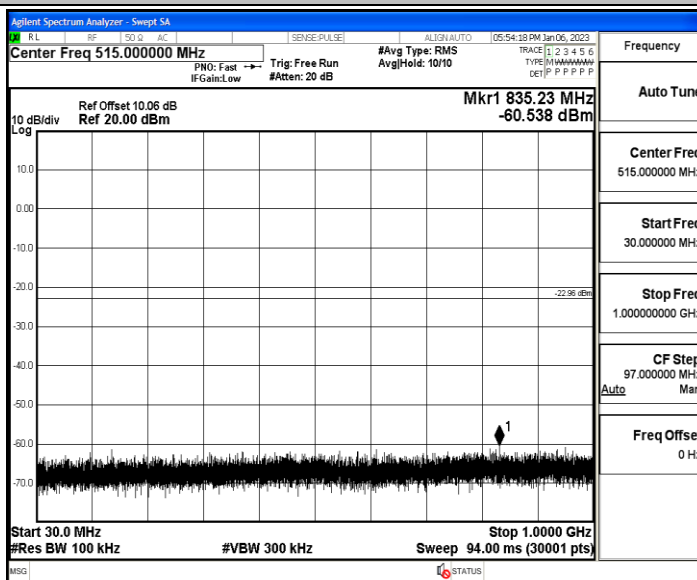


Test Graphs

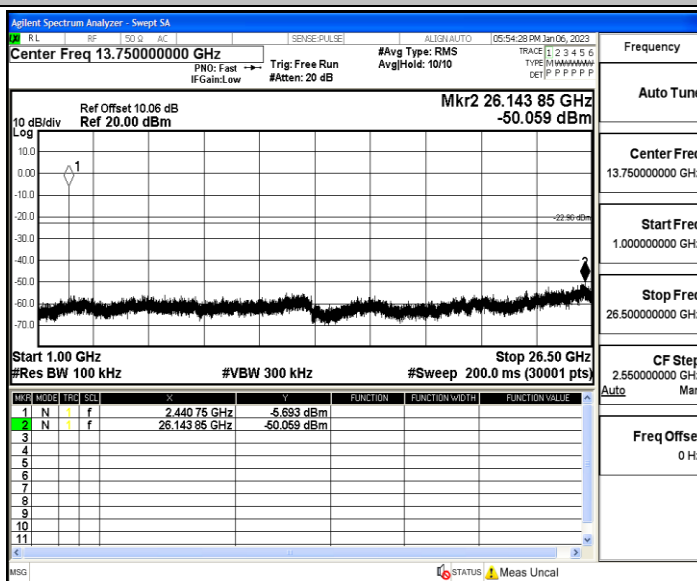




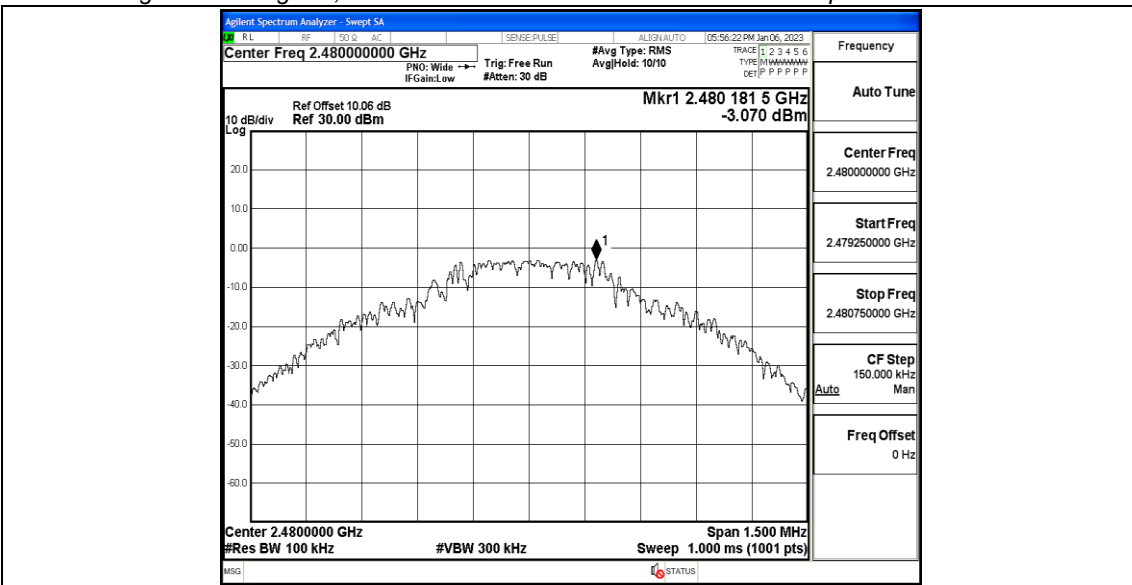
DH5\_Ant1\_2441\_30~1000



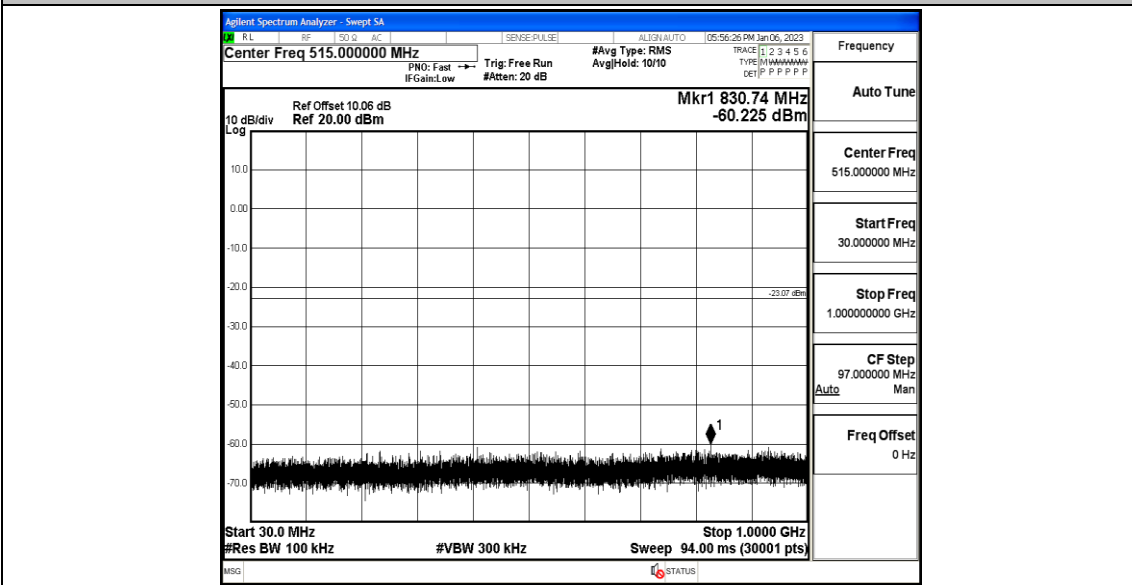
DH5\_Ant1\_2441\_1000~26500



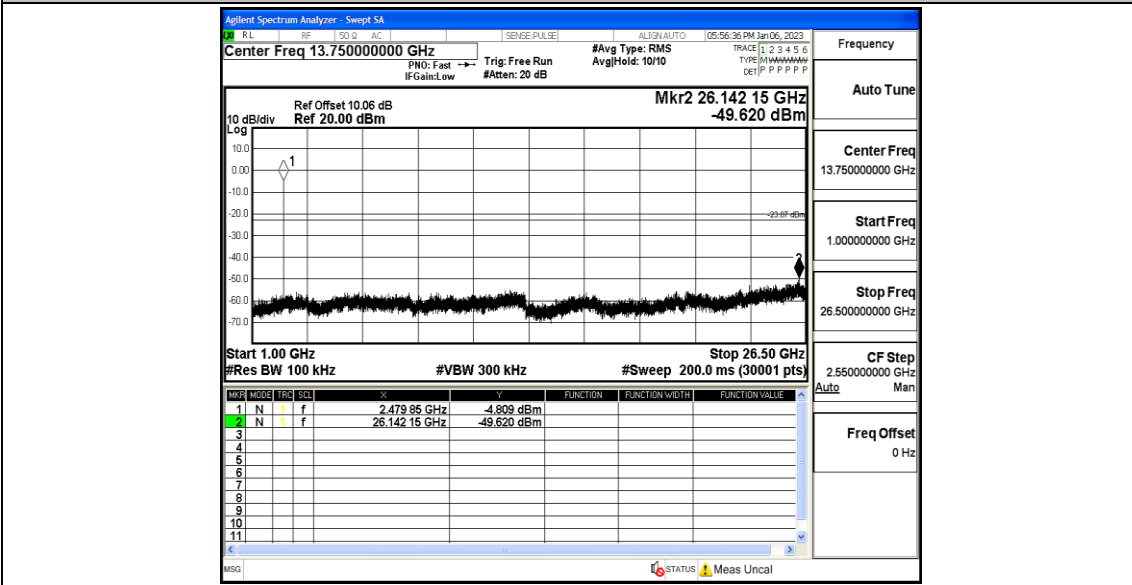
DH5\_Ant1\_2480\_0~Reference



DH5\_Ant1\_2480\_30~1000



DH5\_Ant1\_2480\_1000~26500

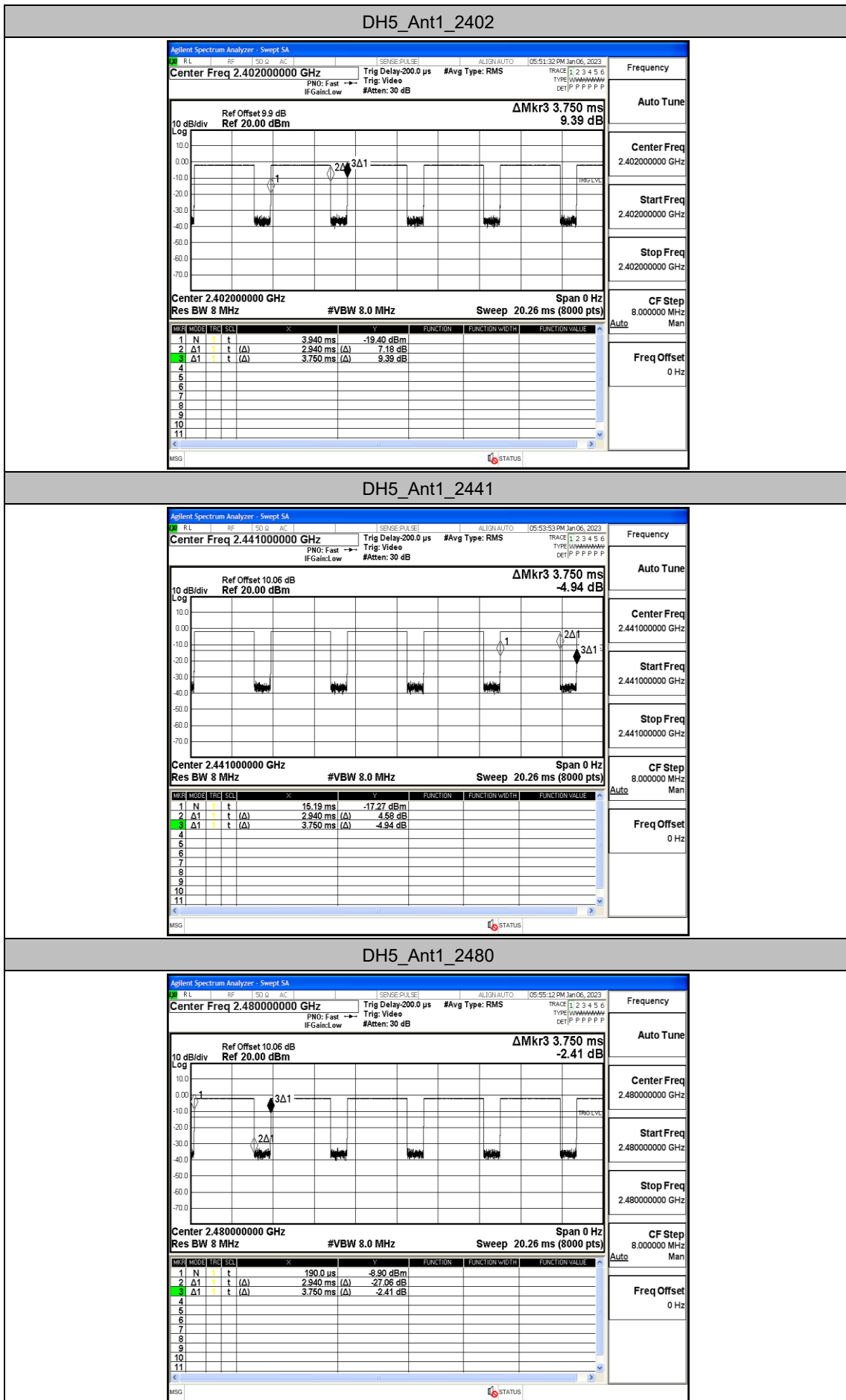


## Appendix I: Duty Cycle

### 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	-48.59	≤-41.20	PASS
				AV	2381.585	-48.24	≤-41.20	PASS
				AV	2390.000	-48.28	≤-41.20	PASS
				Peak	2310.000	-40.65	≤-21.20	PASS
				Peak	2372.135	-38.44	≤-21.20	PASS
				Peak	2390.000	-41.03	≤-21.20	PASS
		High	2480	AV	2483.500	-47.77	≤-41.20	PASS
				AV	2499.200	-47.56	≤-41.20	PASS
				AV	2500.000	-47.65	≤-41.20	PASS
				Peak	2483.500	-41.51	≤-21.20	PASS
				Peak	2495.840	-37.67	≤-21.20	PASS
				Peak	2500.000	-38.22	≤-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

