

Appendix A

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

Product Name: Wireless Earphone

Trade Mark: N/A

Test Model: B208

FCC ID: 2AVT2-B208

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

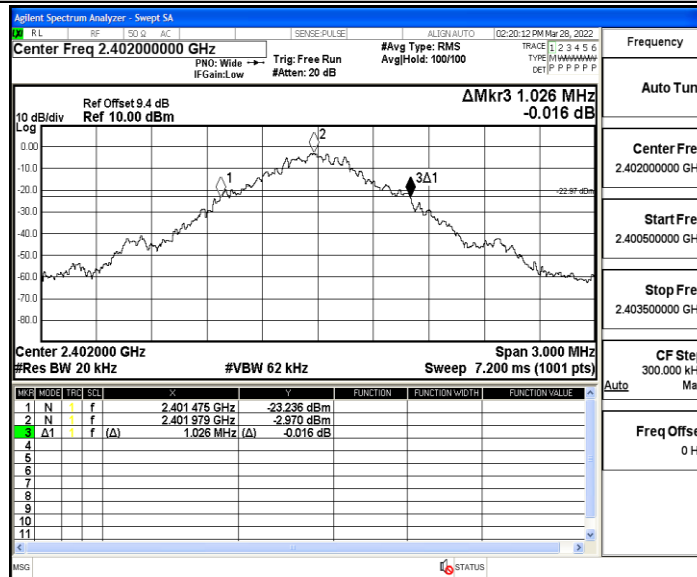
Appendix A: 20dB Emission Bandwidth

Test Result

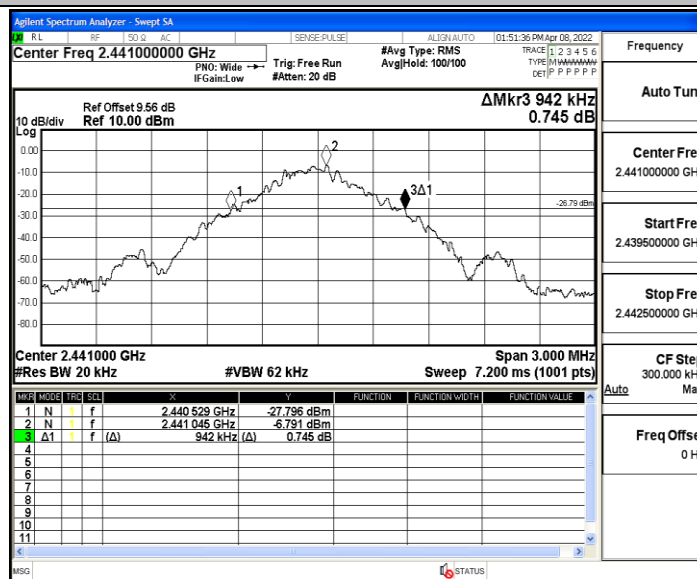
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.026	2401.475	2402.501	---	---
		2441	0.942	2440.529	2441.471	---	---
		2480	0.927	2479.532	2480.459	---	---
2DH5	Ant1	2402	1.326	2401.325	2402.651	---	---
		2441	1.263	2440.358	2441.621	---	---
		2480	1.281	2479.337	2480.618	---	---

Test Graphs

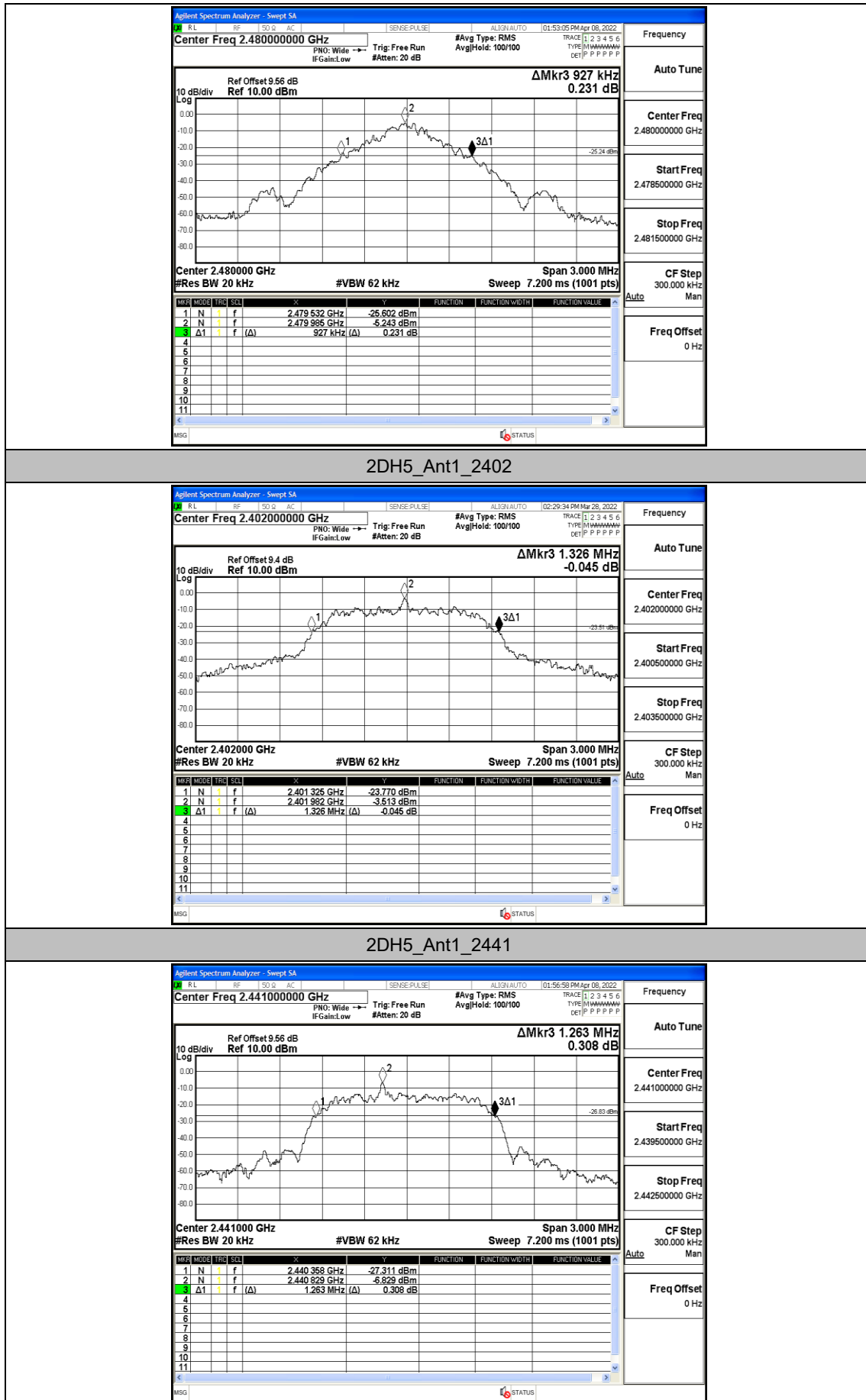
DH5_Ant1_2402

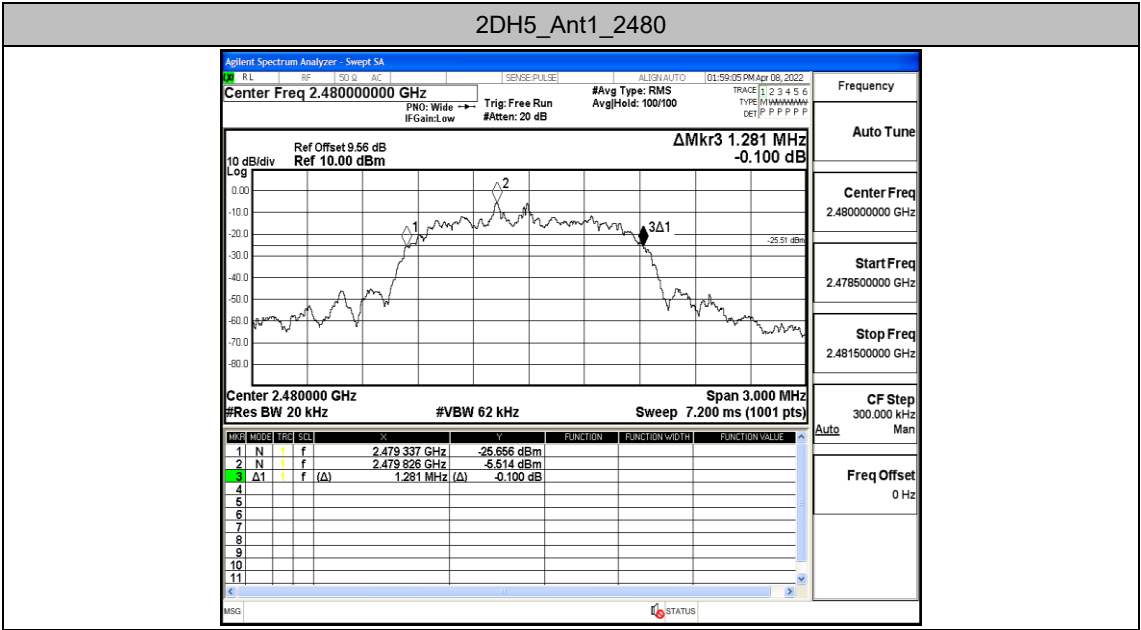


DH5_Ant1_2441



DH5_Ant1_2480



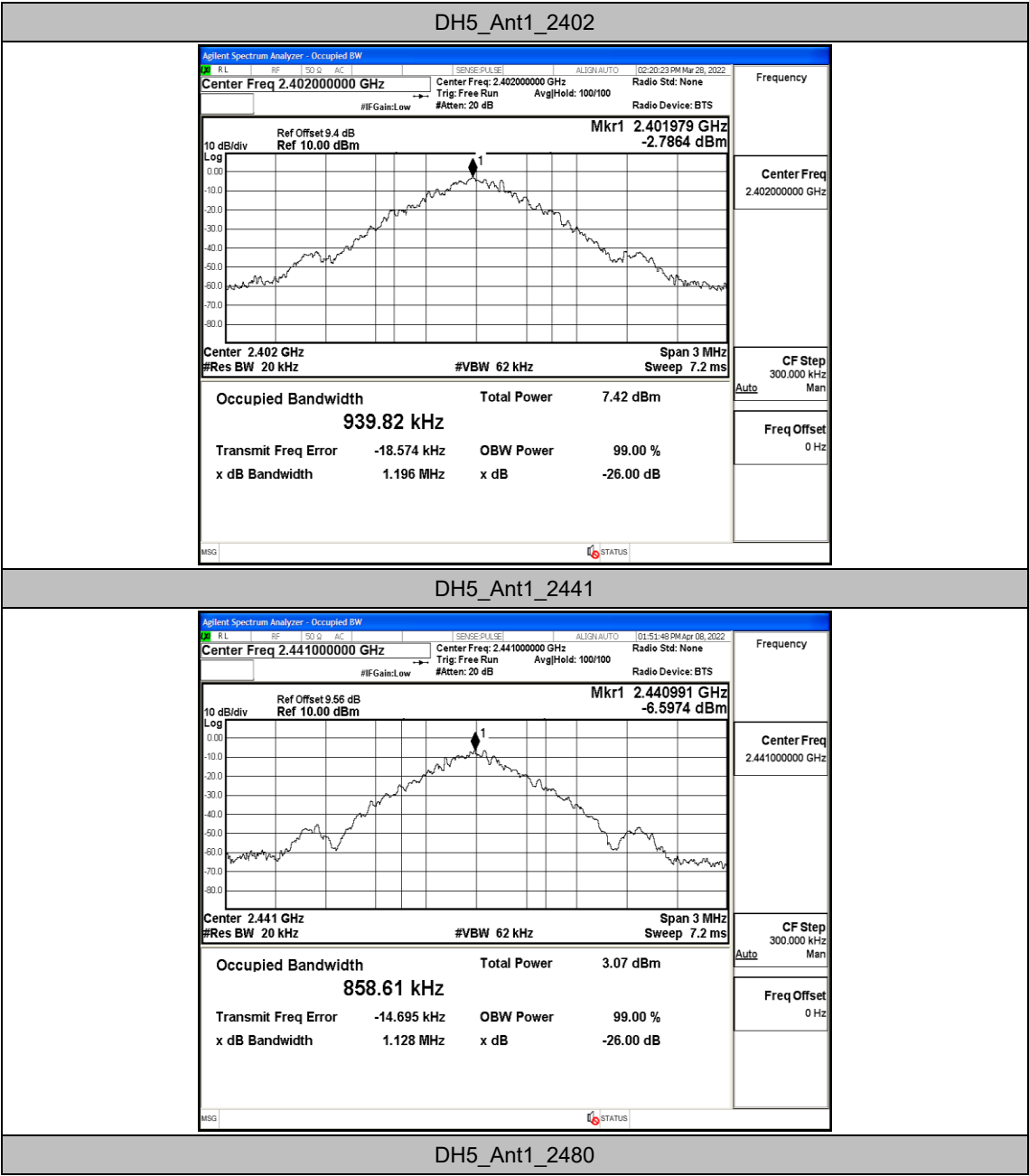


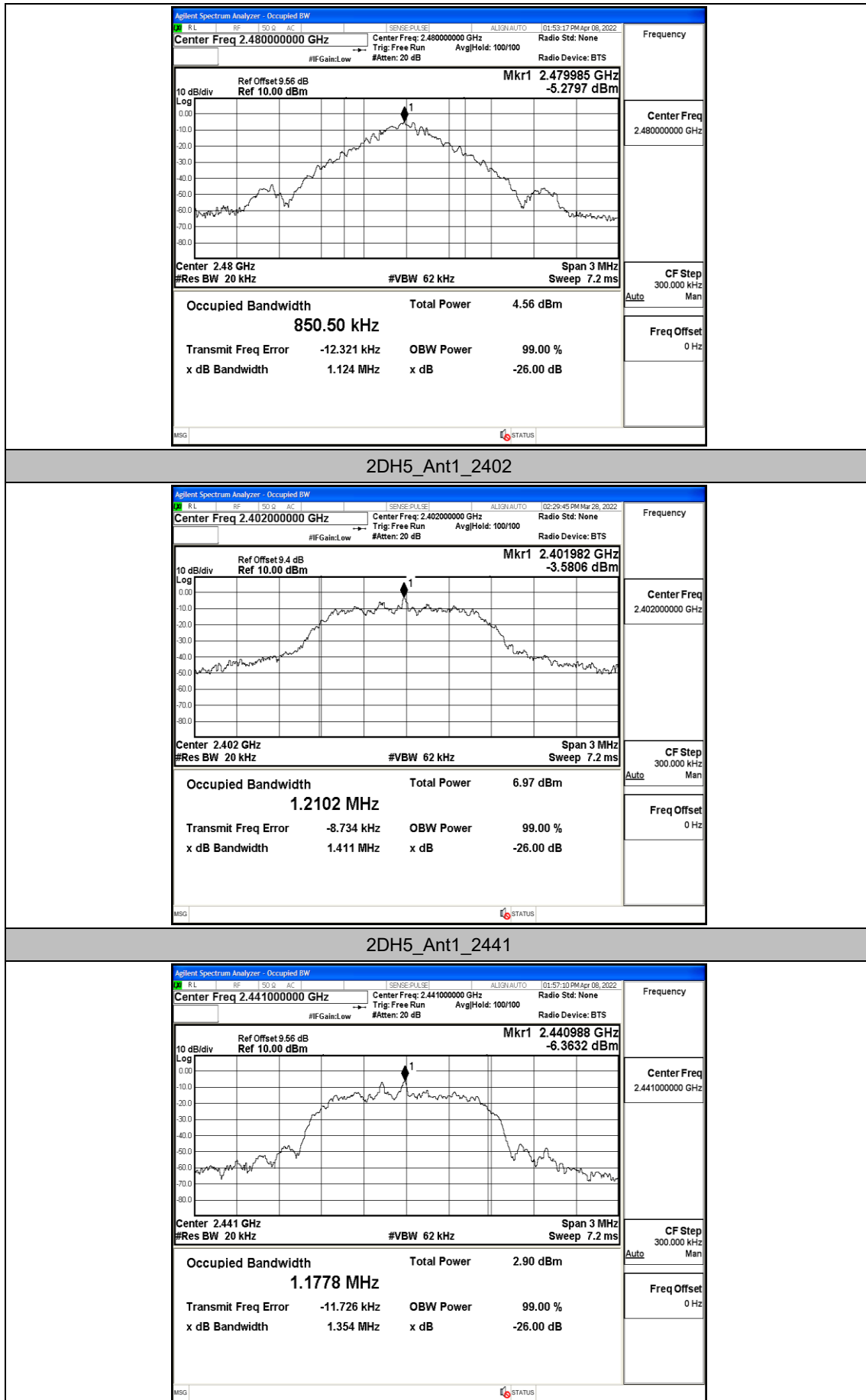
Appendix B: Occupied Channel Bandwidth

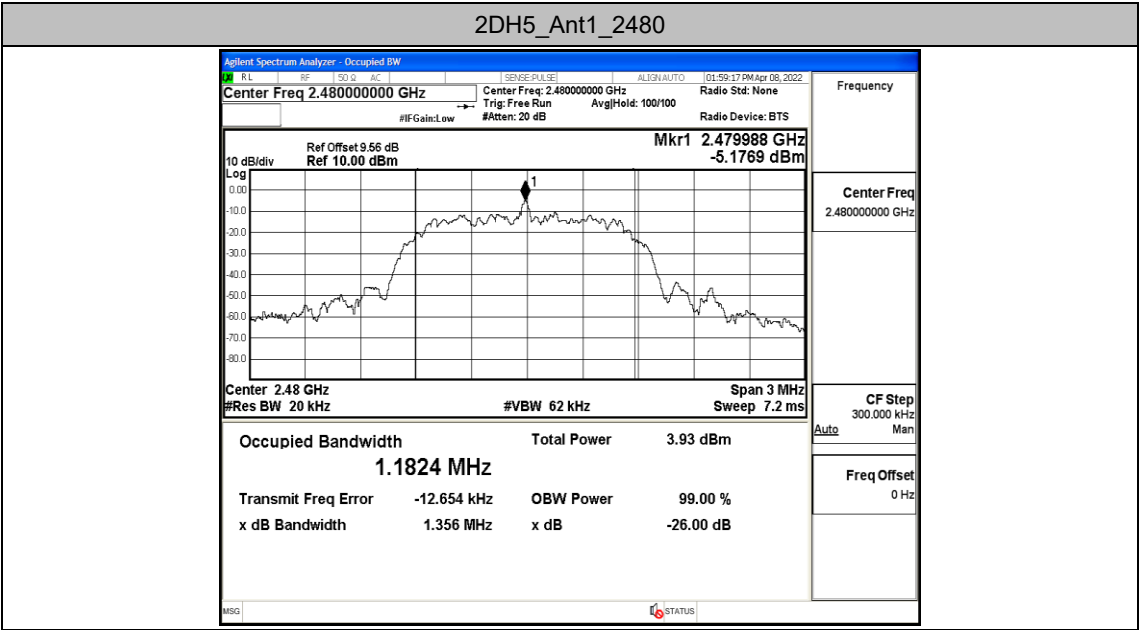
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.93982	2401.512	2402.451	---	---
		2441	0.85861	2440.556	2441.415	---	---
		2480	0.85050	2479.562	2480.413	---	---
2DH5	Ant1	2402	1.2102	2401.386	2402.596	---	---
		2441	1.1778	2440.399	2441.577	---	---
		2480	1.1824	2479.396	2480.579	---	---

Test Graphs





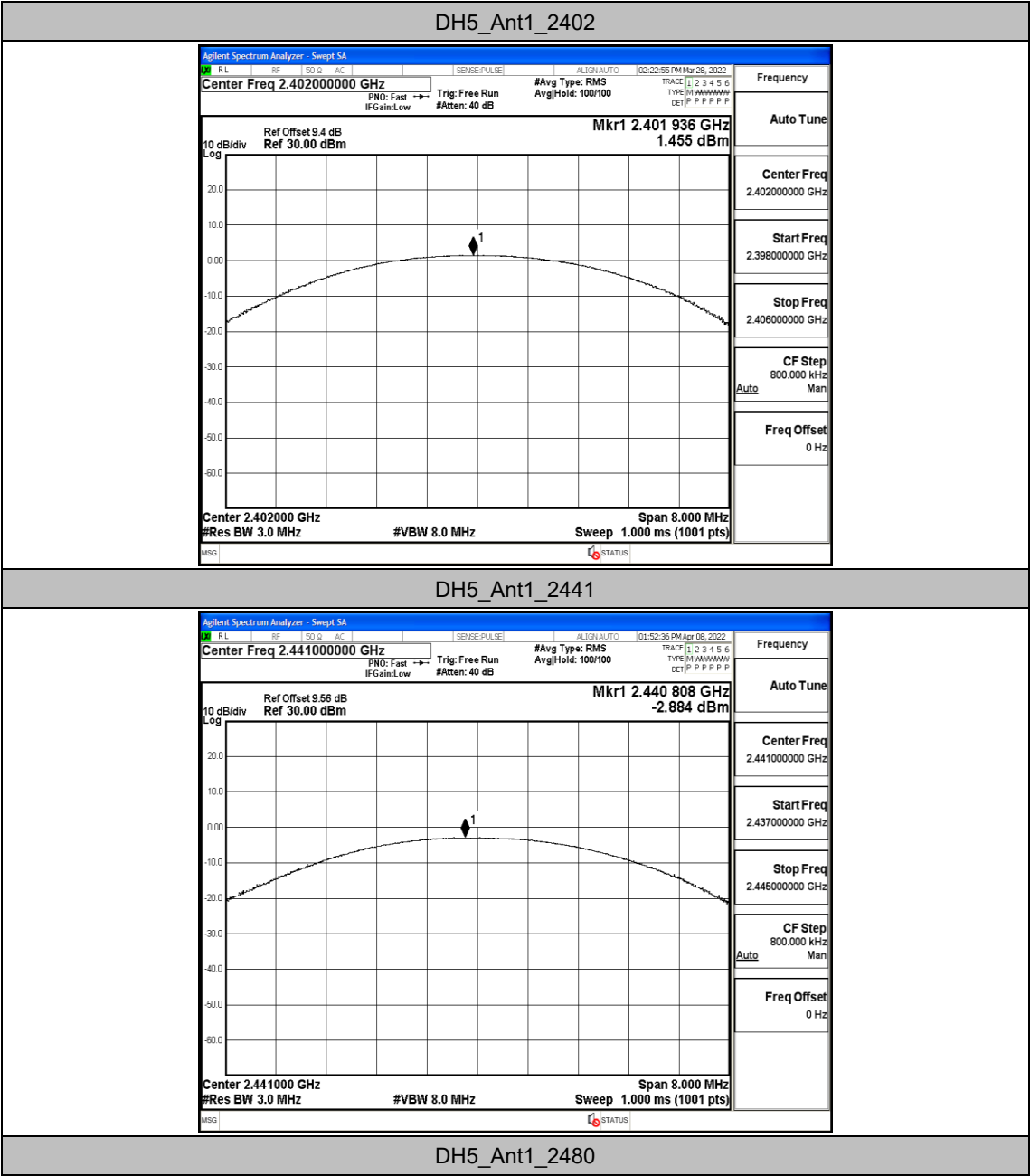


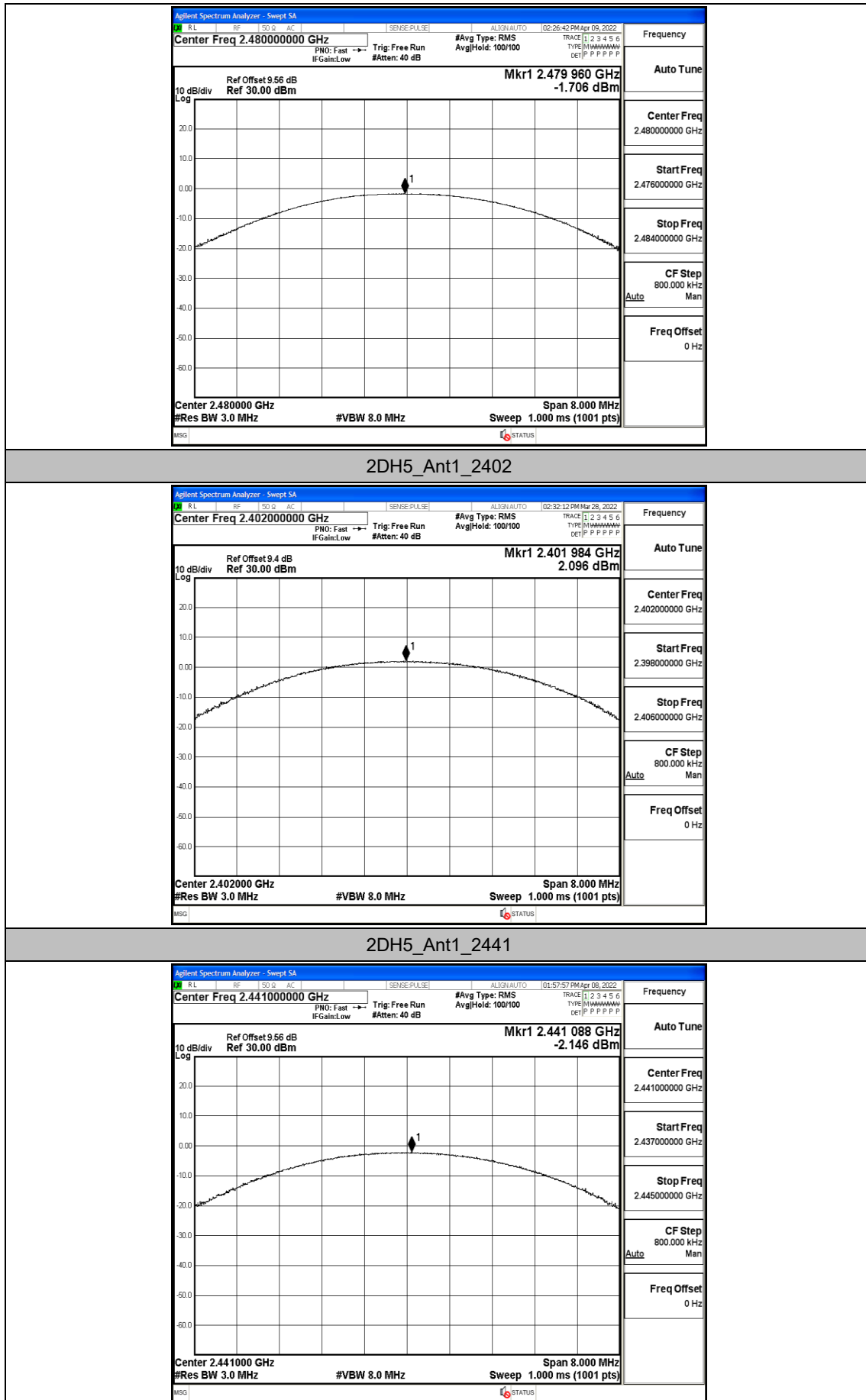
Appendix C: Maximum conducted output power

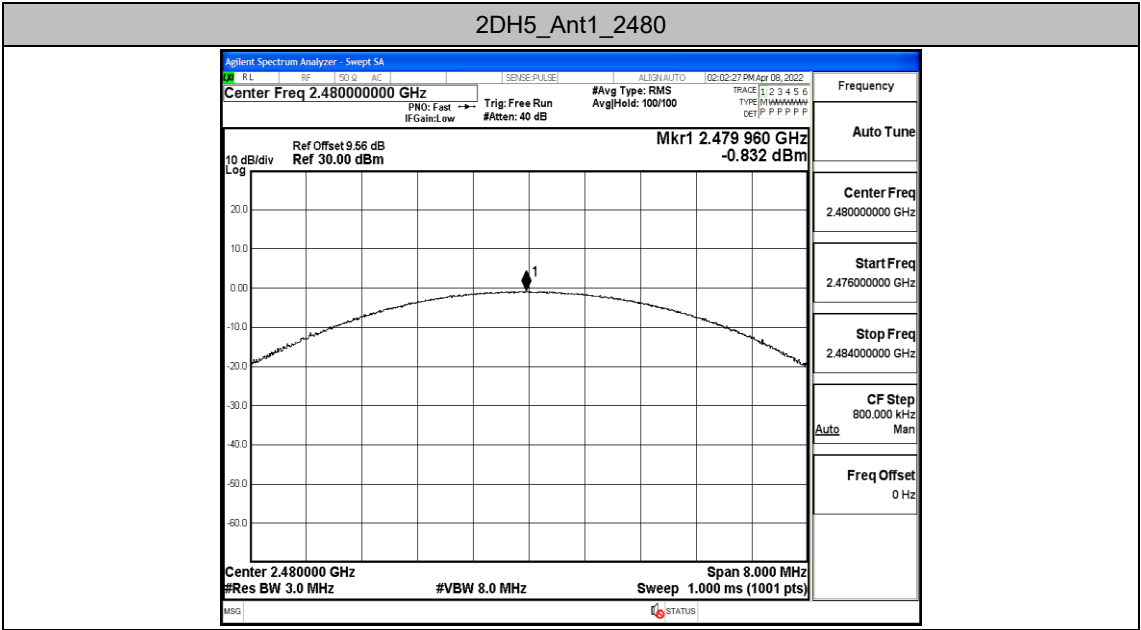
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.46	≤30	PASS
		2441	-2.88	≤30	PASS
		2480	-1.71	≤30	PASS
2DH5	Ant1	2402	2.1	≤20.97	PASS
		2441	-2.15	≤20.97	PASS
		2480	-0.83	≤20.97	PASS

Test Graphs





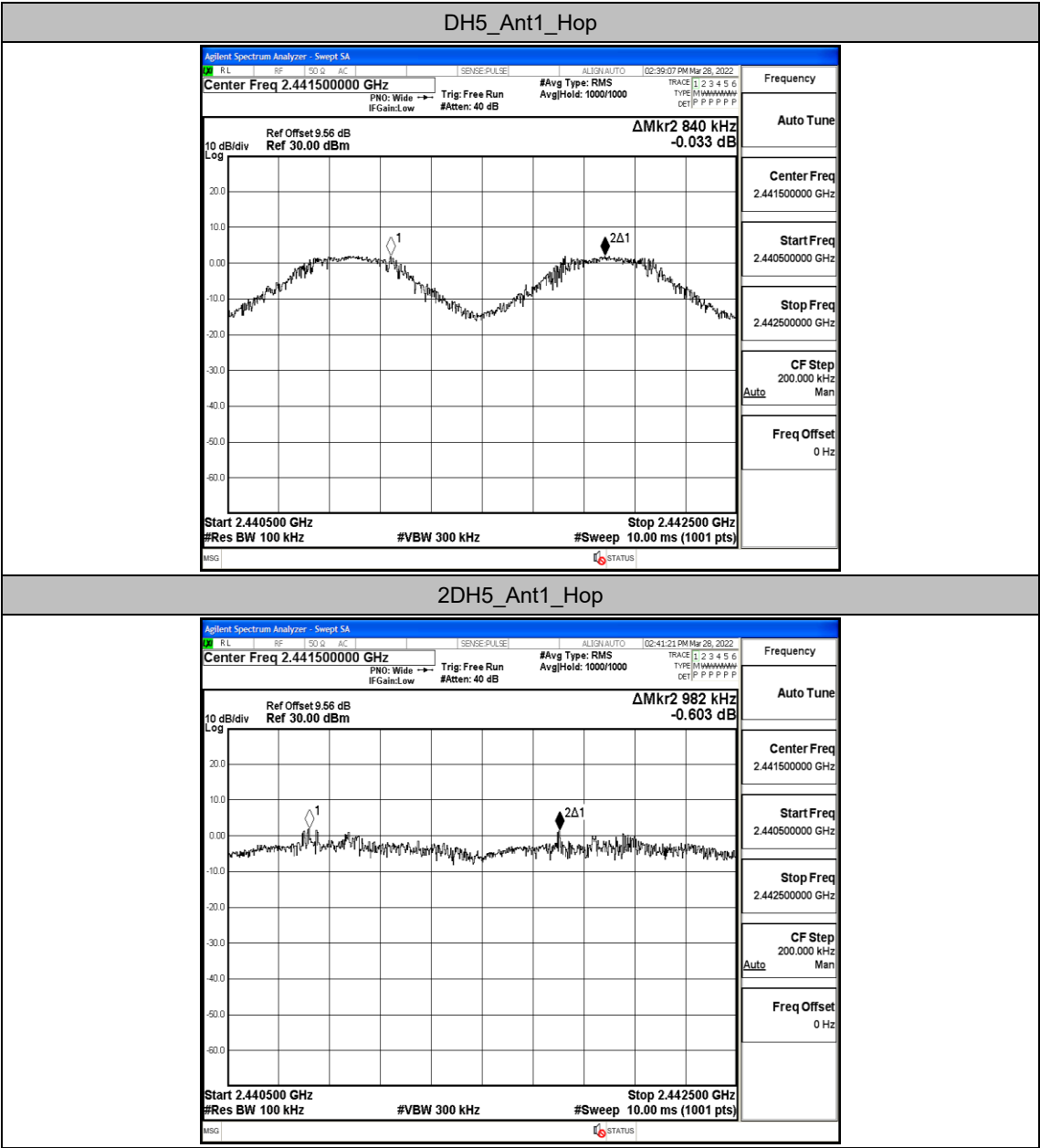


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.84	≥ 0.684	PASS
2DH5	Ant1	Hop	0.982	≥ 0.884	PASS

Test Graphs

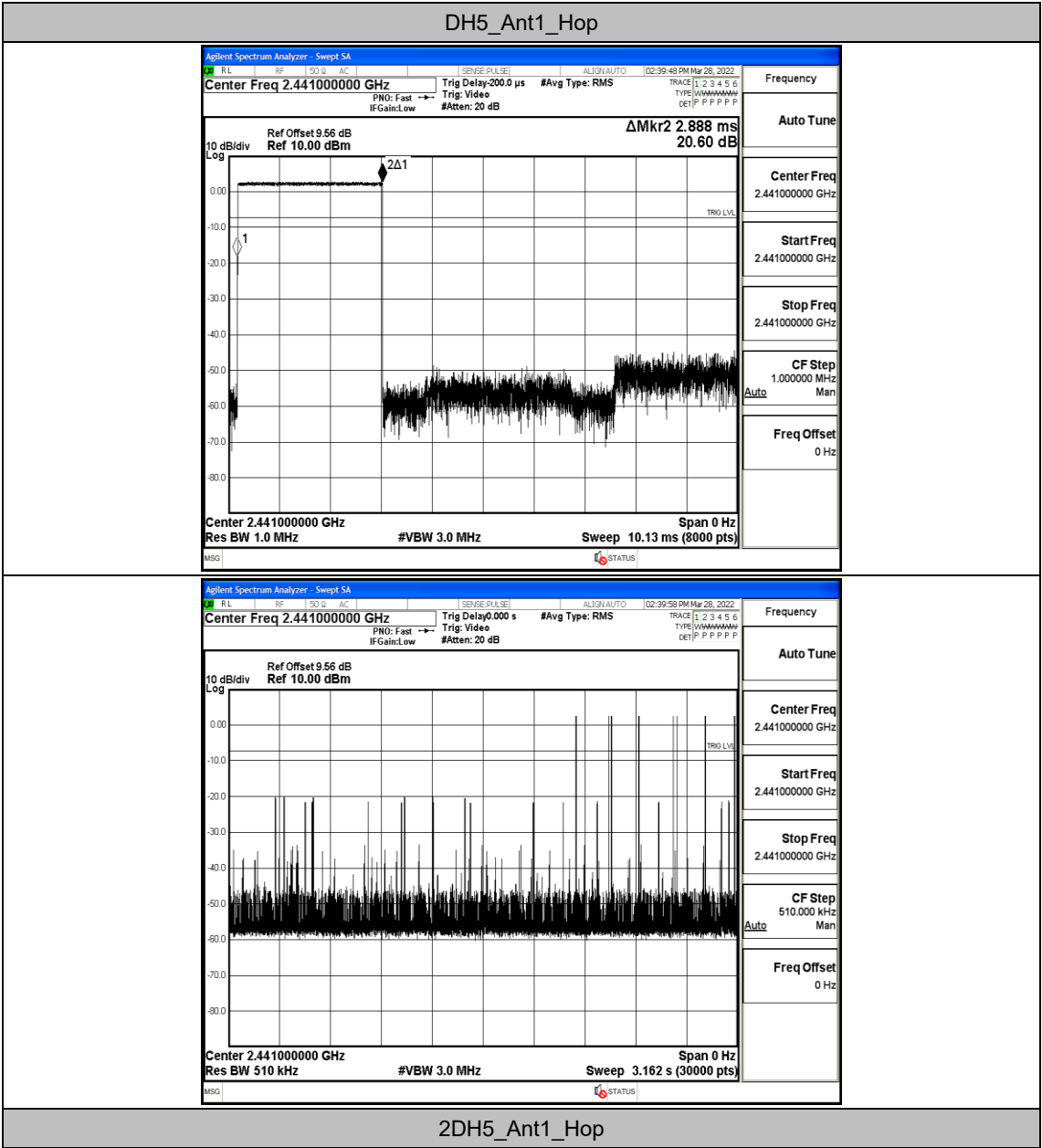


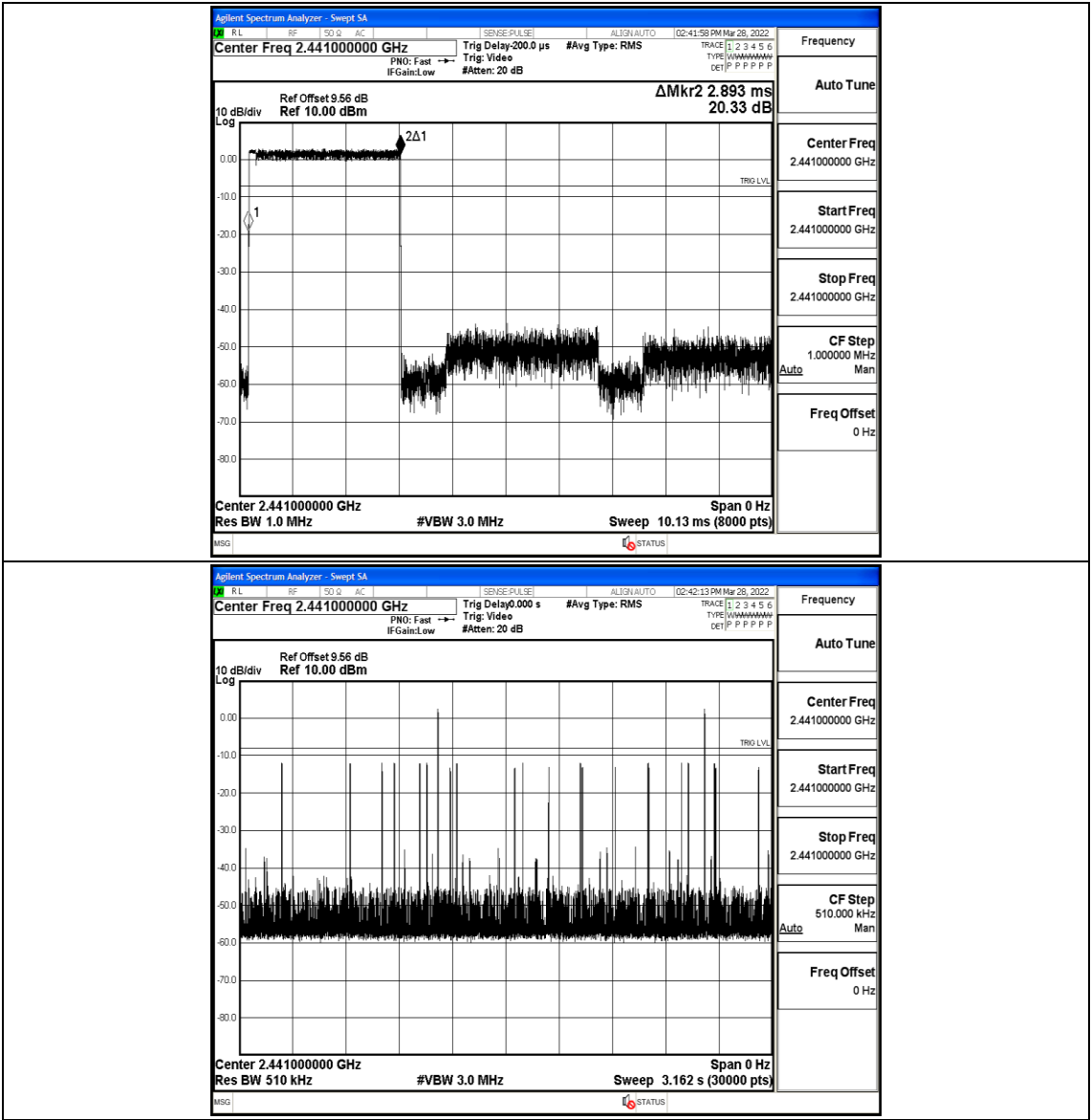
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	90	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.89	30	0.087	≤0.4	PASS

Test Graphs



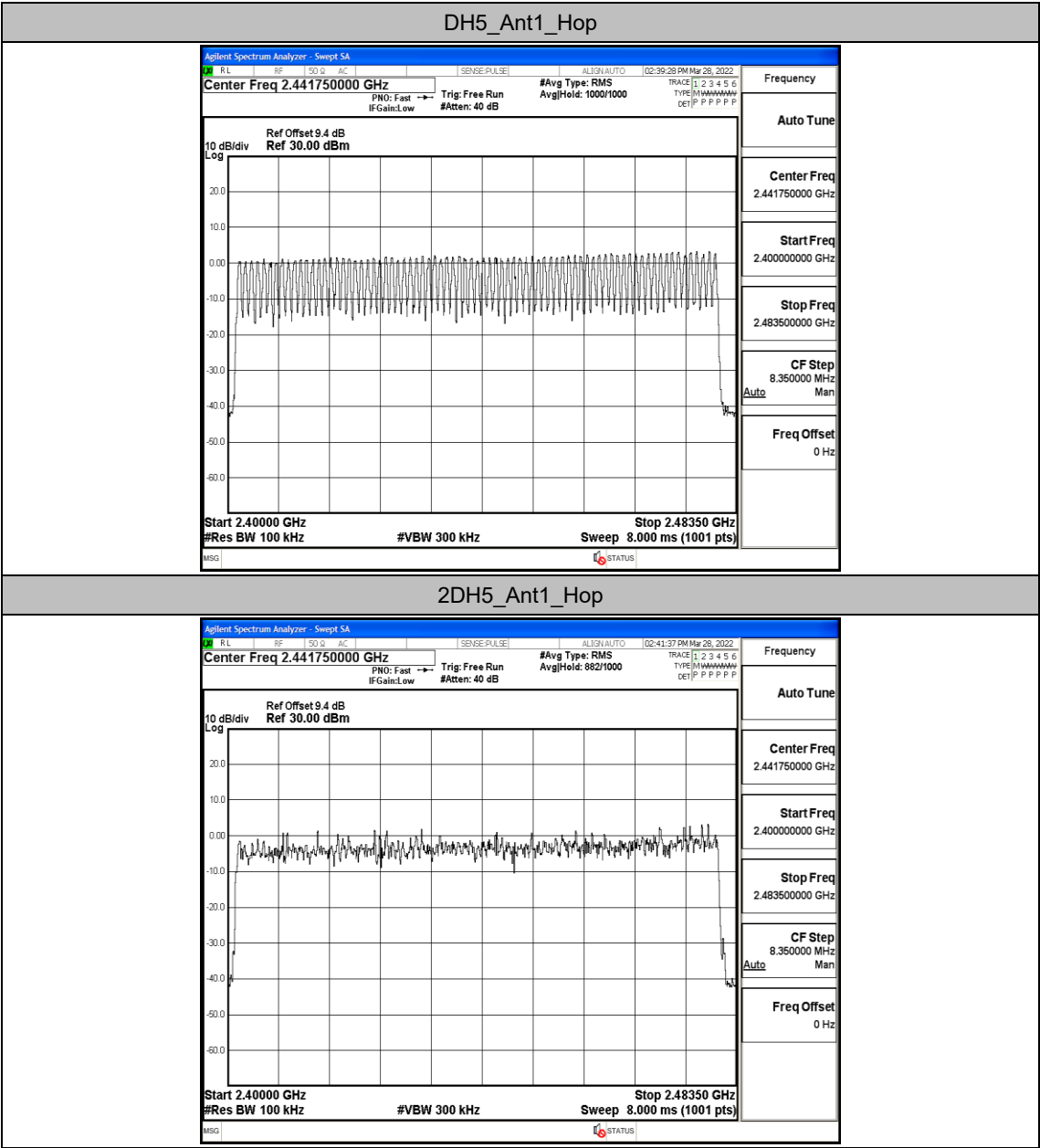


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



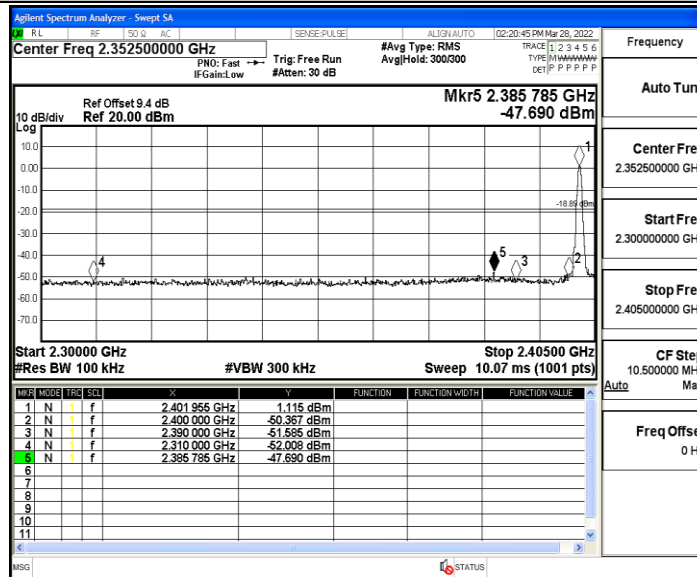
Appendix G: Band edge measurements

Test Result

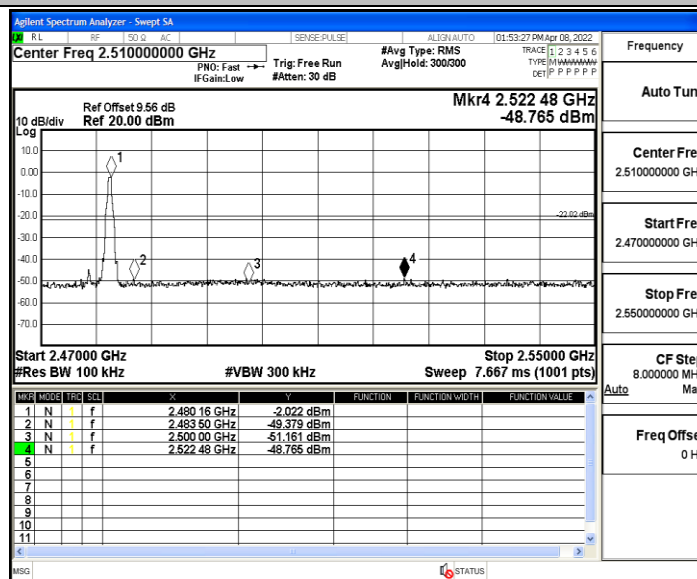
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.12	-47.69	≤ -18.89	PASS
		High	2480	-2.02	-48.77	≤ -22.02	PASS
		Low	Hop_2402	-0.06	-49.73	≤ -20.06	PASS
		High	Hop_2480	3.32	-48.9	≤ -16.68	PASS
2DH5	Ant1	Low	2402	0.84	-46.45	≤ -19.17	PASS
		High	2480	-1.91	-48.97	≤ -21.91	PASS
		Low	Hop_2402	-2.95	-49.51	≤ -22.95	PASS
		High	Hop_2480	2.80	-49.1	≤ -17.21	PASS

Test Graphs

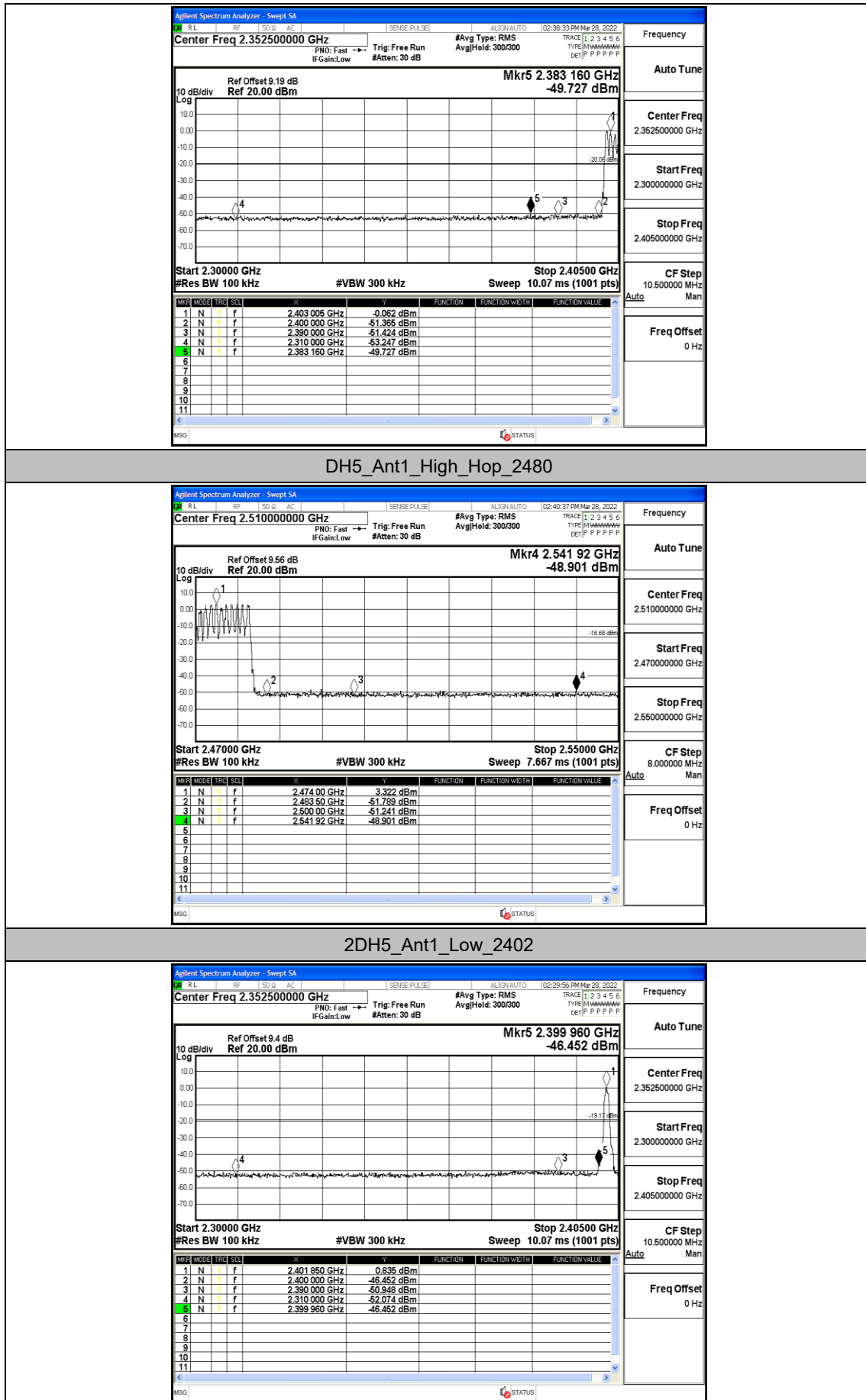
DH5_Ant1_Low_2402



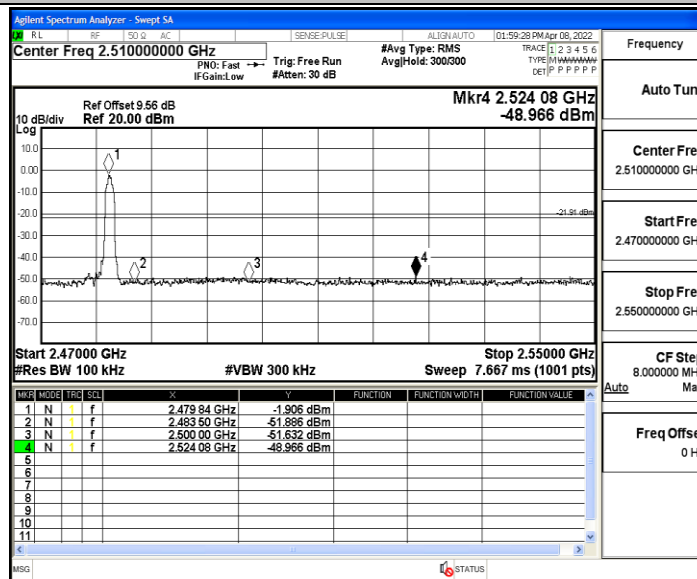
DH5_Ant1_High_2480



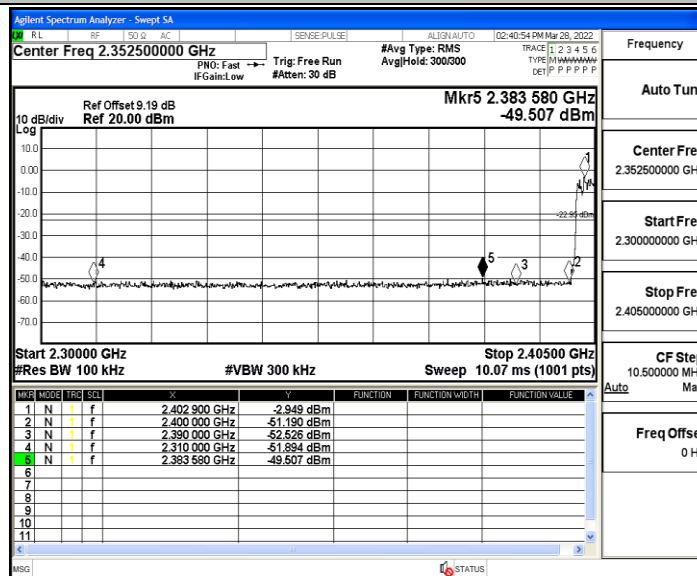
DH5_Ant1_Low_Hop_2402



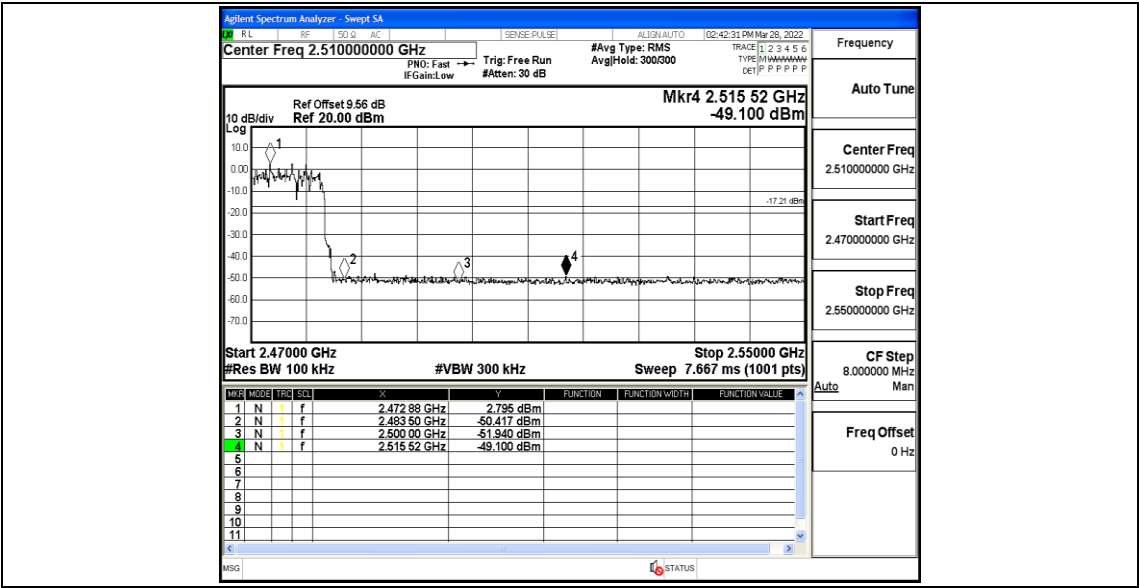
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

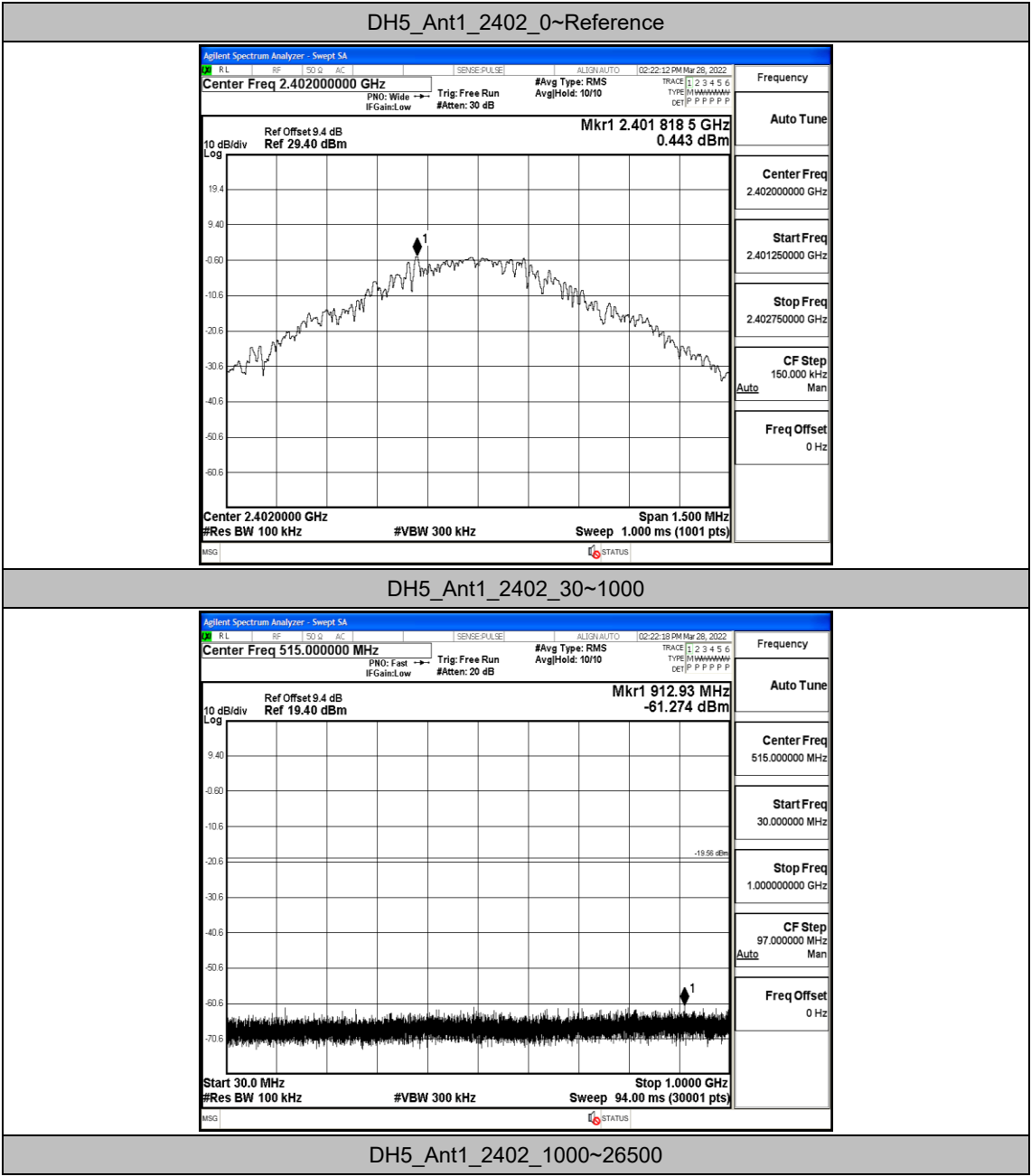


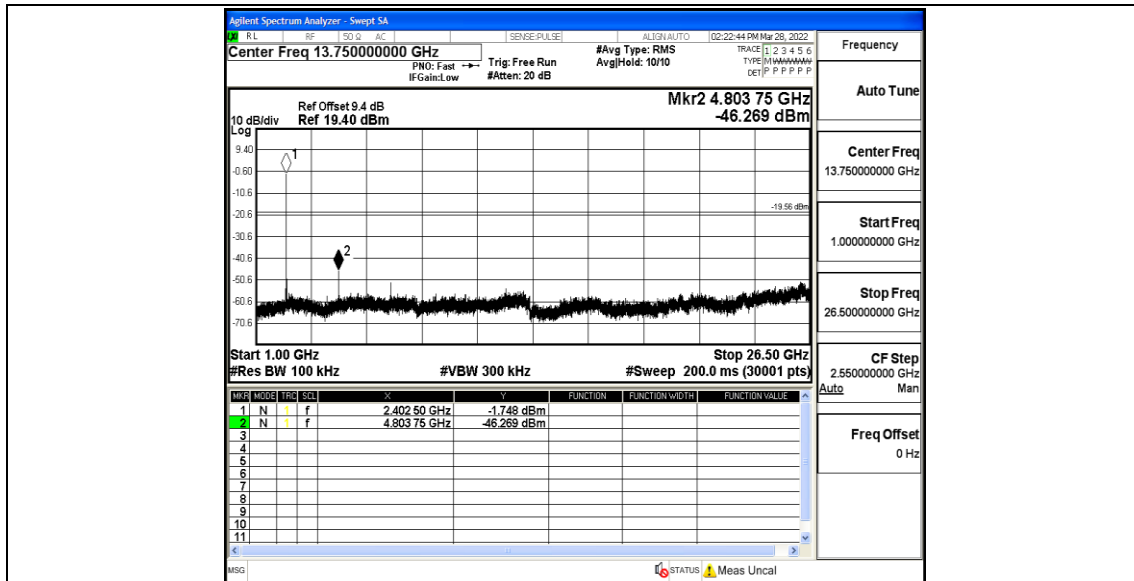
Appendix H: Conducted Spurious Emission

Test Result

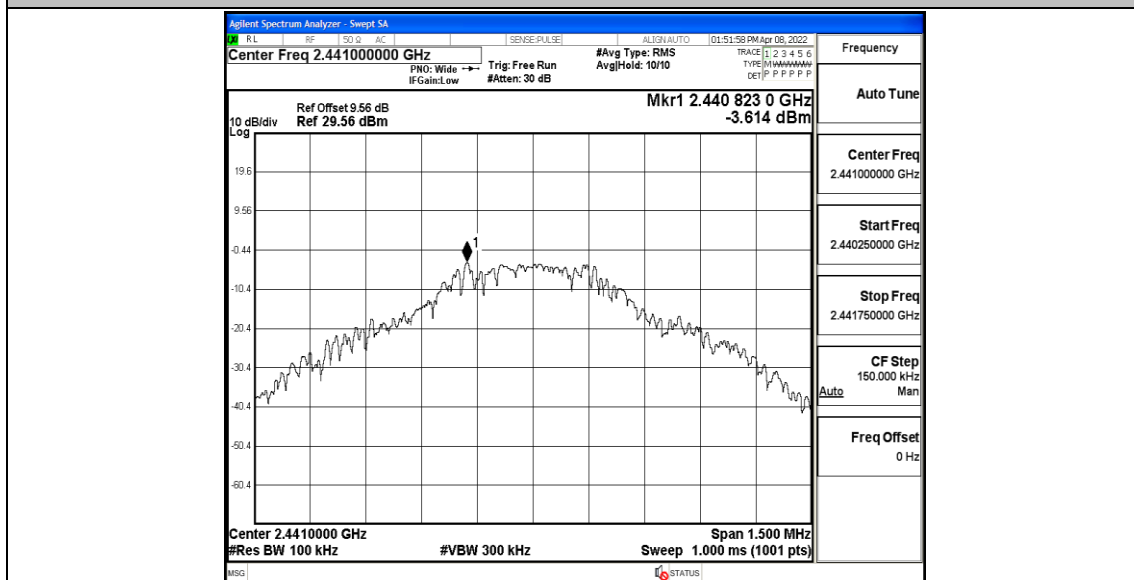
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.44	0.44	---	PASS
			30~1000	0.44	-61.27	≤-19.56	PASS
			1000~26500	0.44	-46.27	≤-19.56	PASS
		2441	Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-60.31	≤-23.61	PASS
			1000~26500	-3.61	-47.87	≤-23.61	PASS
		2480	Reference	-2.58	-2.58	---	PASS
			30~1000	-2.58	-60.93	≤-22.58	PASS
			1000~26500	-2.58	-49.52	≤-22.58	PASS
2DH5	Ant1	2402	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-60.71	≤-20.74	PASS
			1000~26500	-0.74	-47.75	≤-20.74	PASS
		2441	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-61.25	≤-25.78	PASS
			1000~26500	-5.78	-50.38	≤-25.78	PASS
		2480	Reference	-5.61	-5.61	---	PASS
			30~1000	-5.61	-61.44	≤-25.61	PASS
			1000~26500	-5.61	-49.44	≤-25.61	PASS

Test Graphs

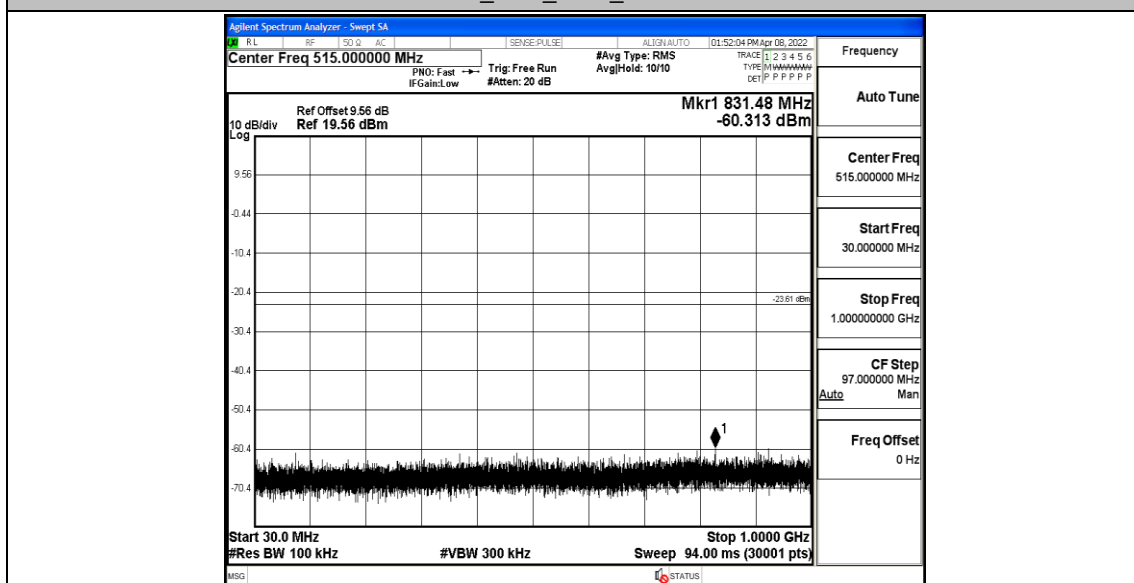




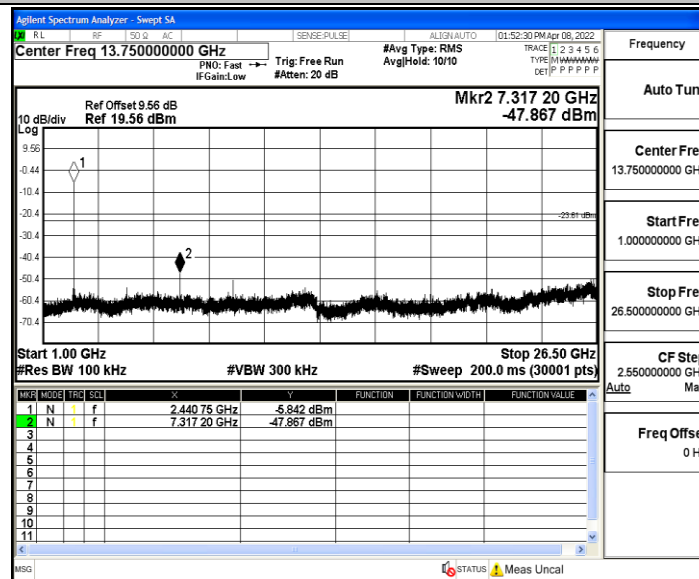
DH5_Ant1_2441_0~Reference



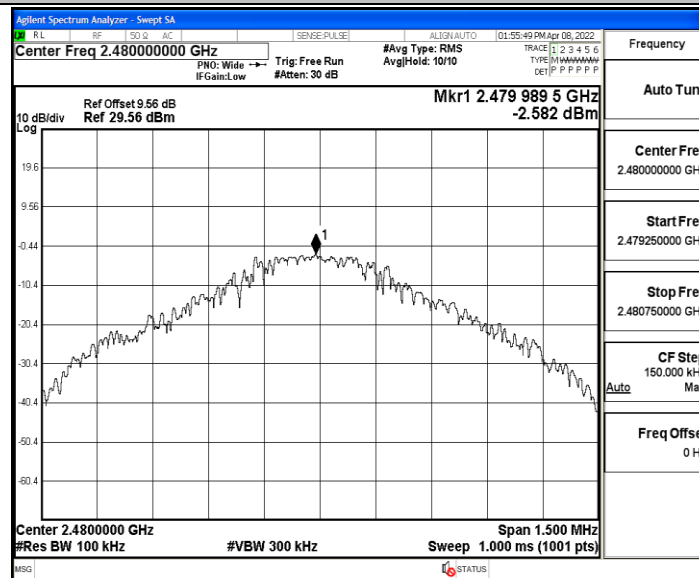
DH5_Ant1_2441_30~1000



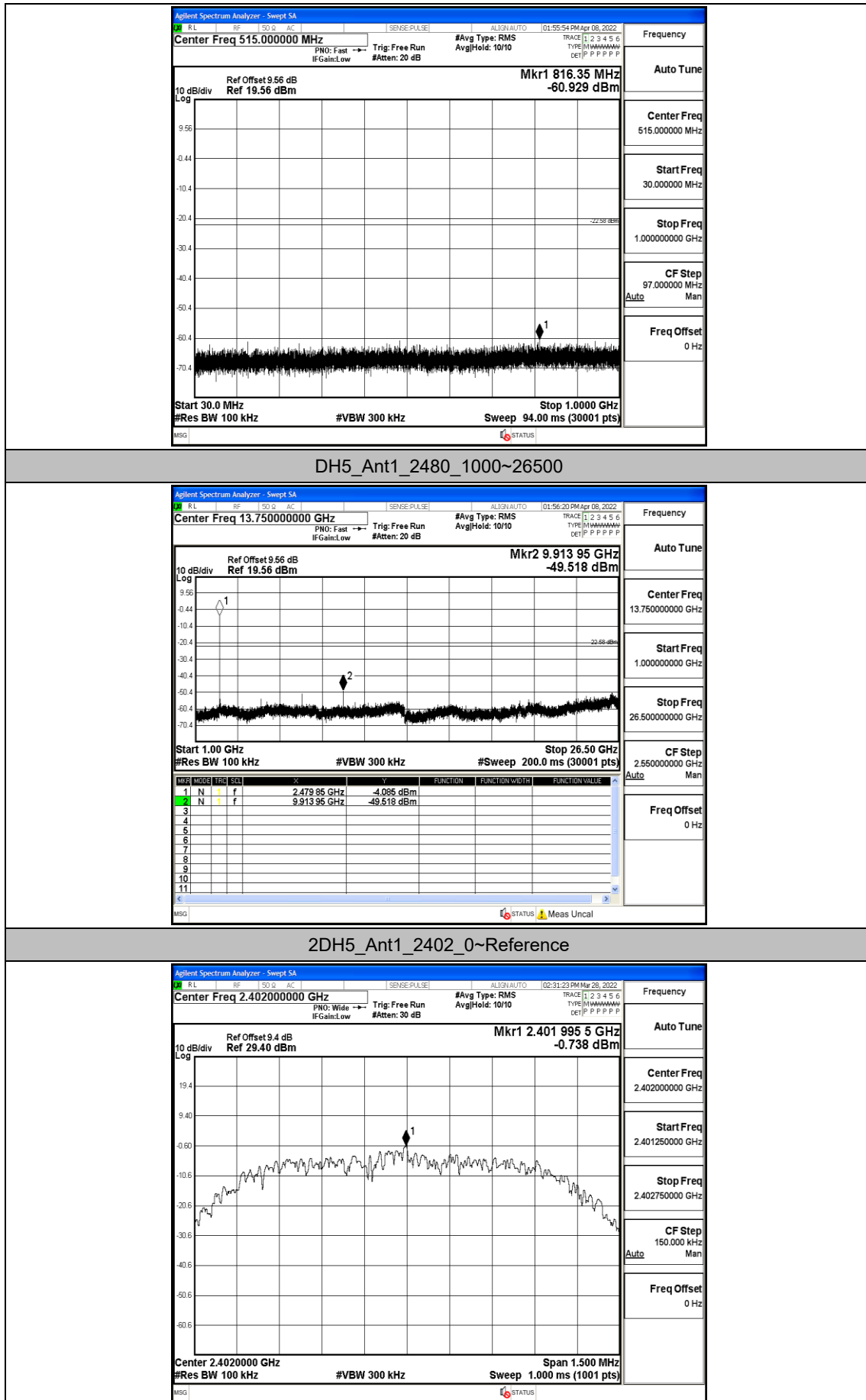
DH5_Ant1_2441_1000~26500



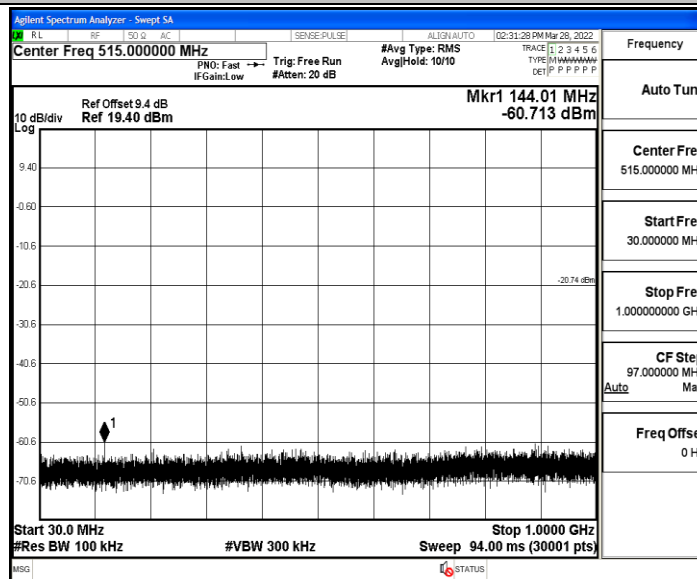
DH5_Ant1_2480_0~Reference



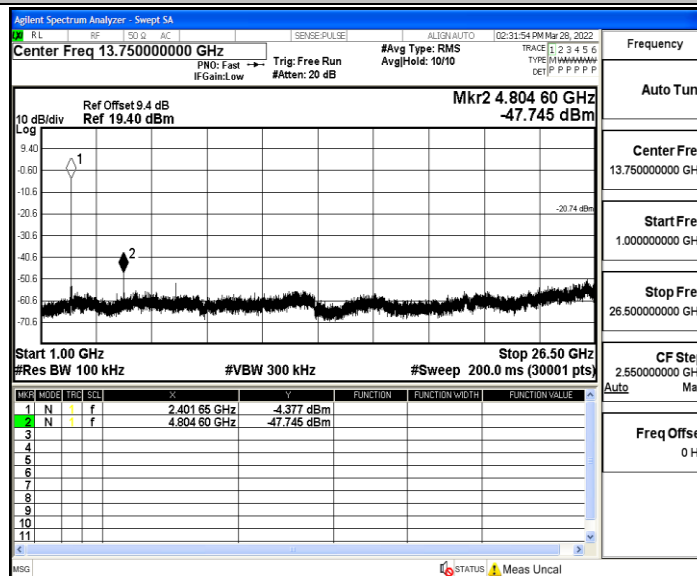
DH5_Ant1_2480_30~1000



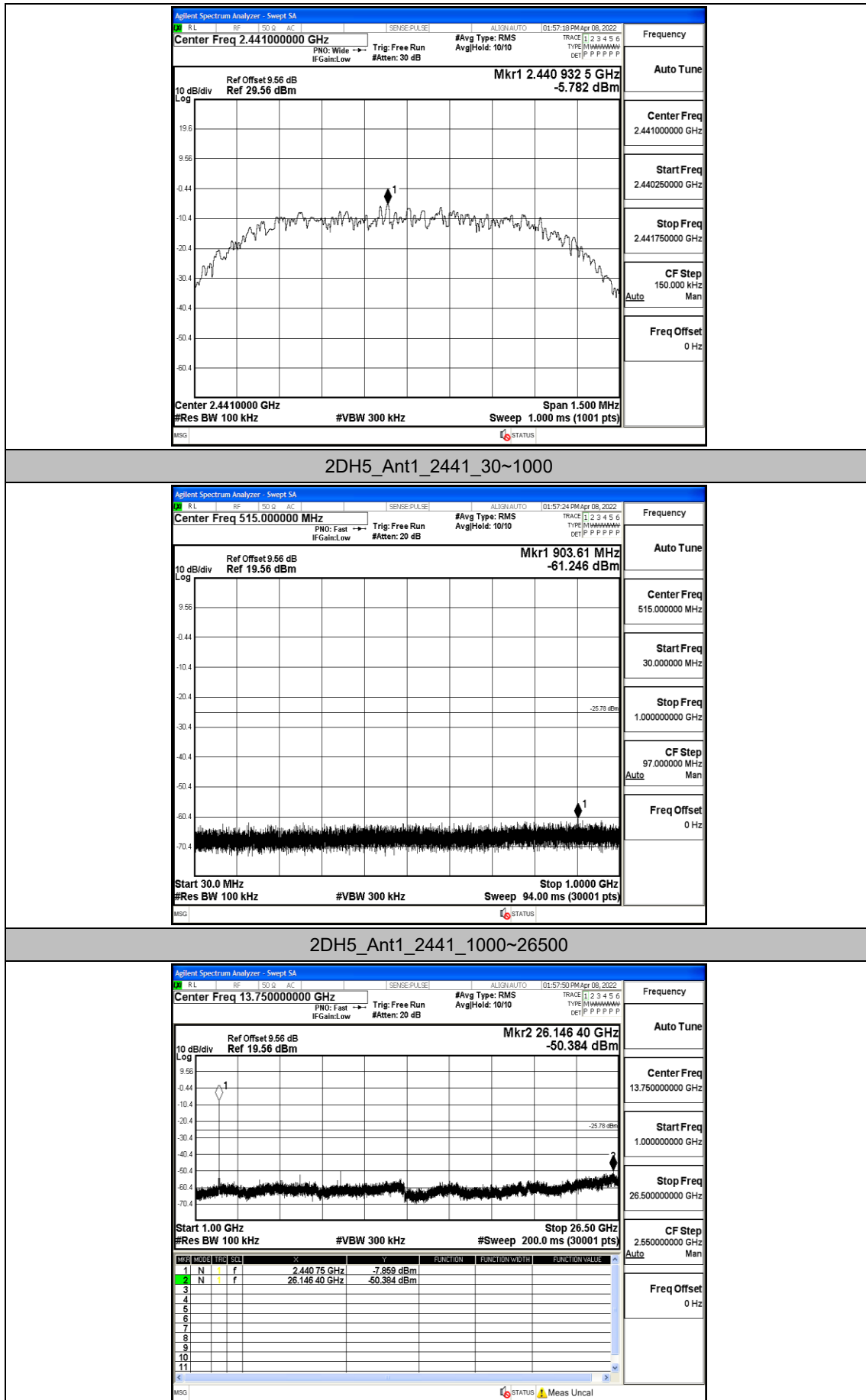
2DH5_Ant1_2402_30~1000

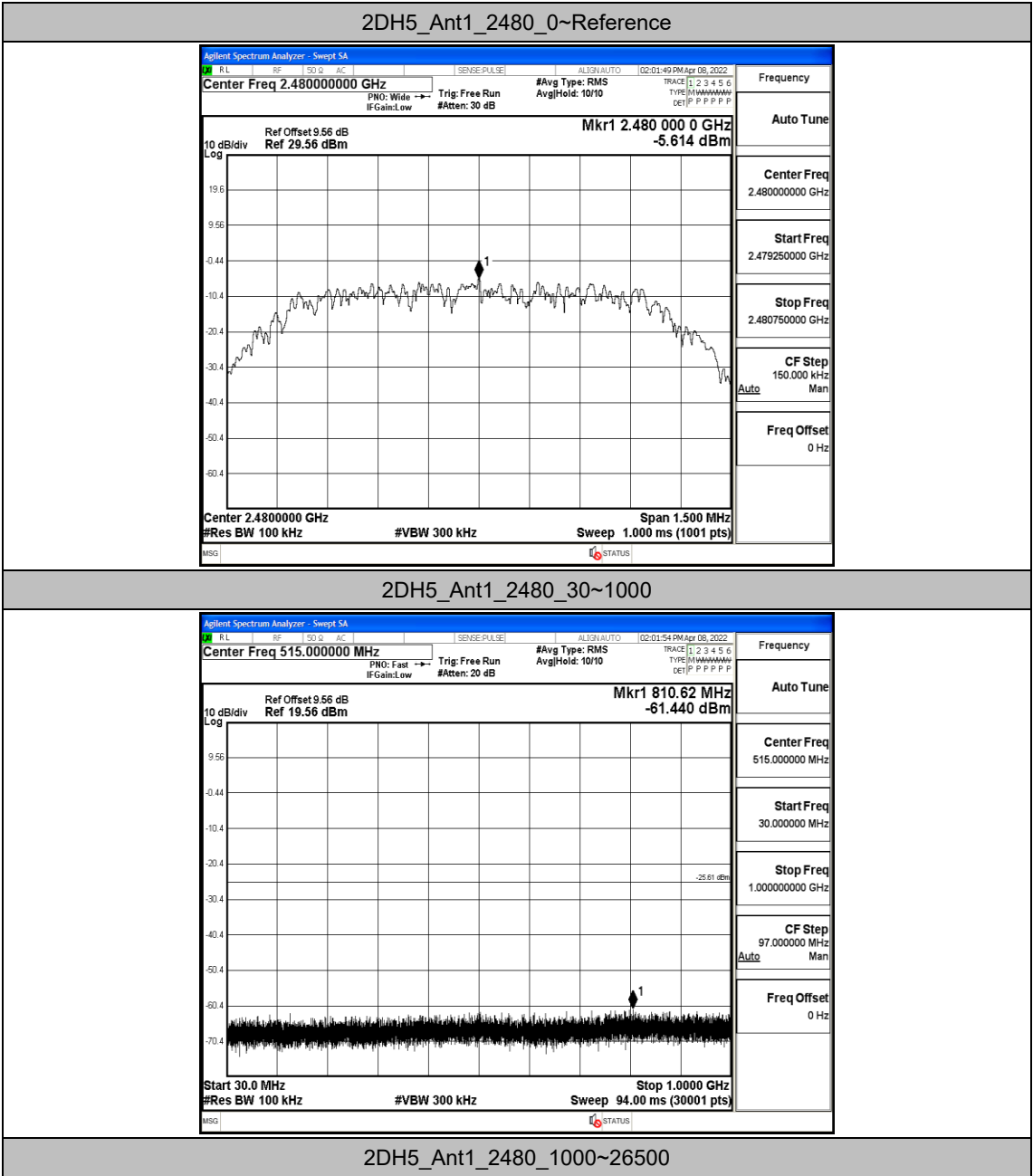


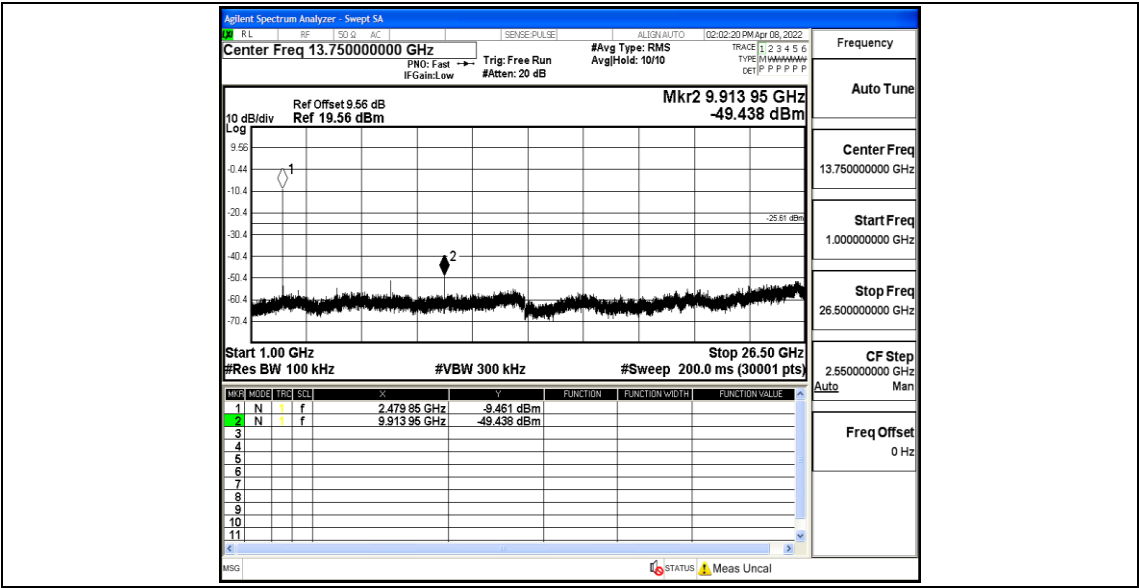
2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference







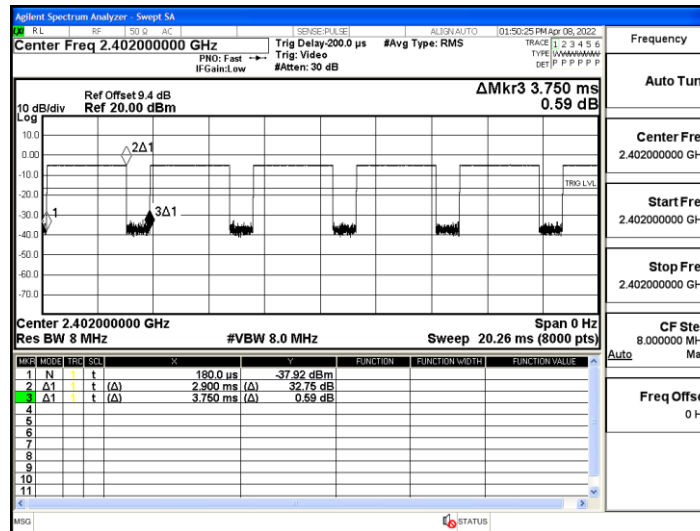
Appendix I: Duty Cycle

Test Result

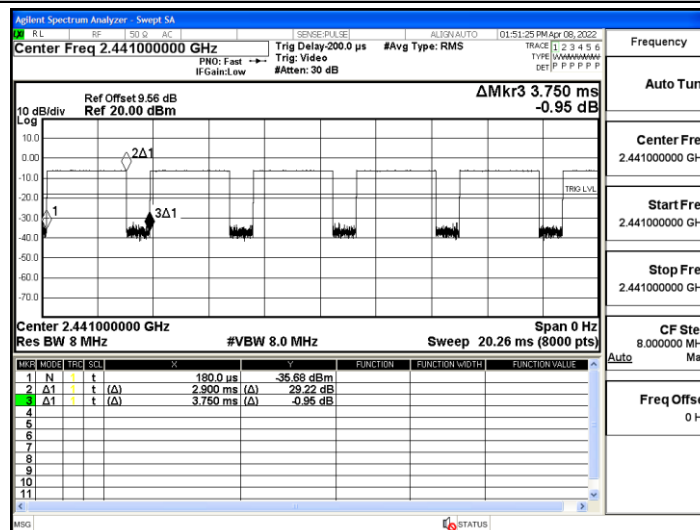
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.90	3.75	77.33	0.34
		2441	2.90	3.75	77.33	0.34
		2480	2.90	3.75	77.33	0.34
2DH5	Ant1	2402	2.91	3.75	77.60	0.34
		2441	2.91	3.75	77.60	0.34
		2480	2.91	3.76	77.39	0.34

Test Graphs

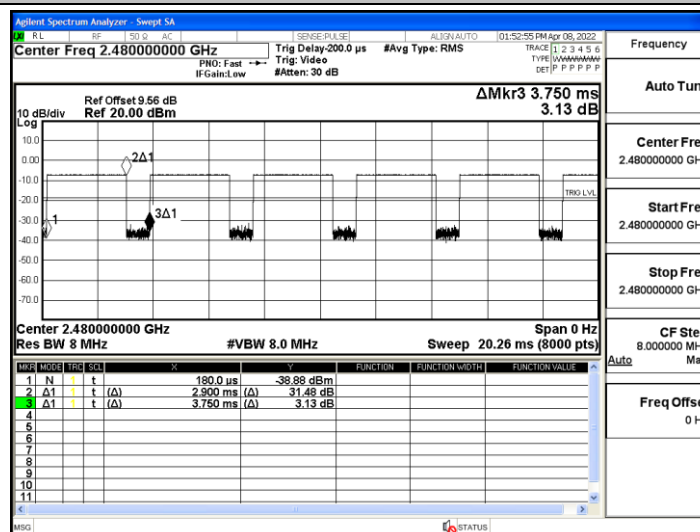
DH5_Ant1_2402



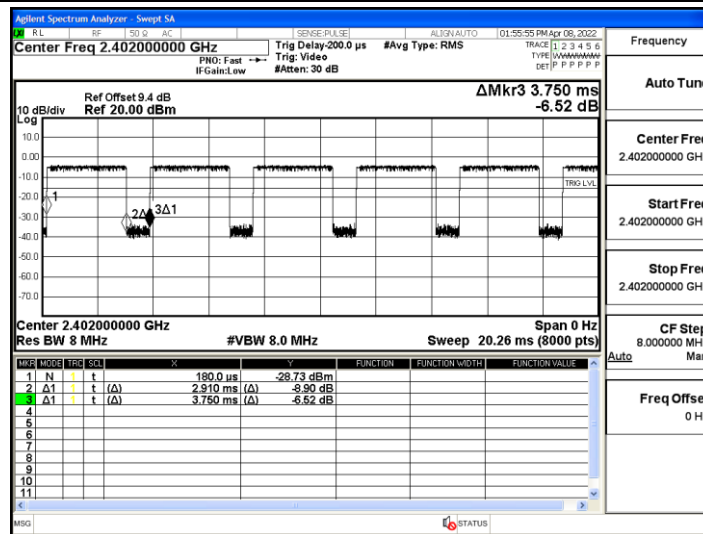
DH5_Ant1_2441



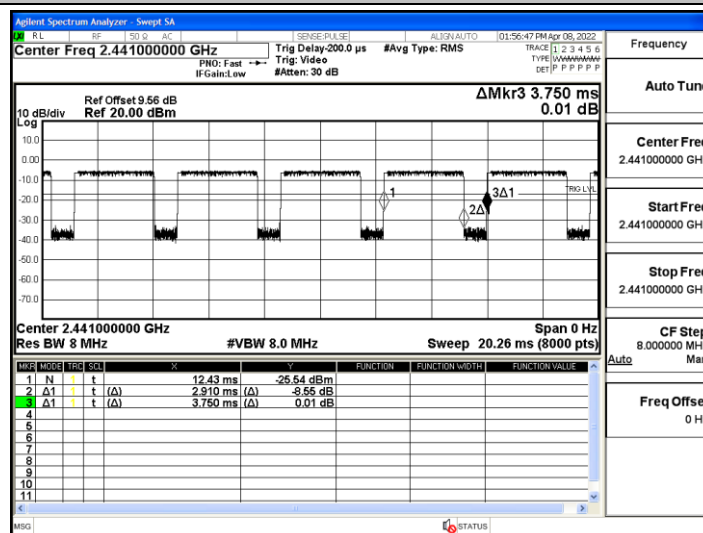
DH5_Ant1_2480



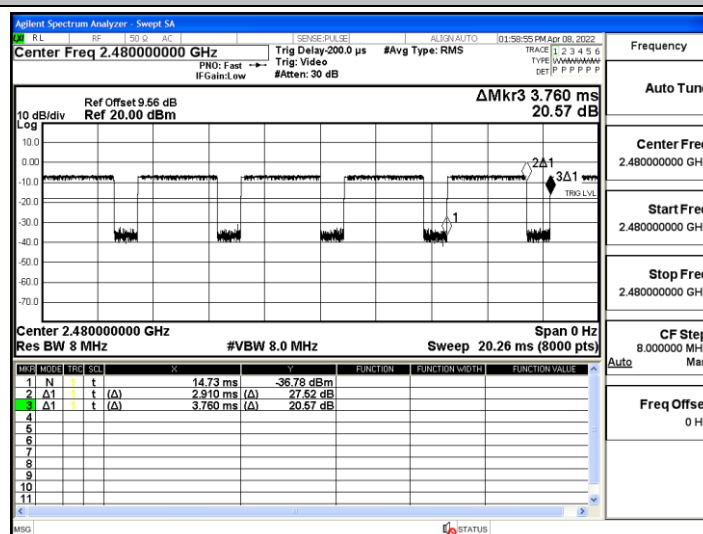
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

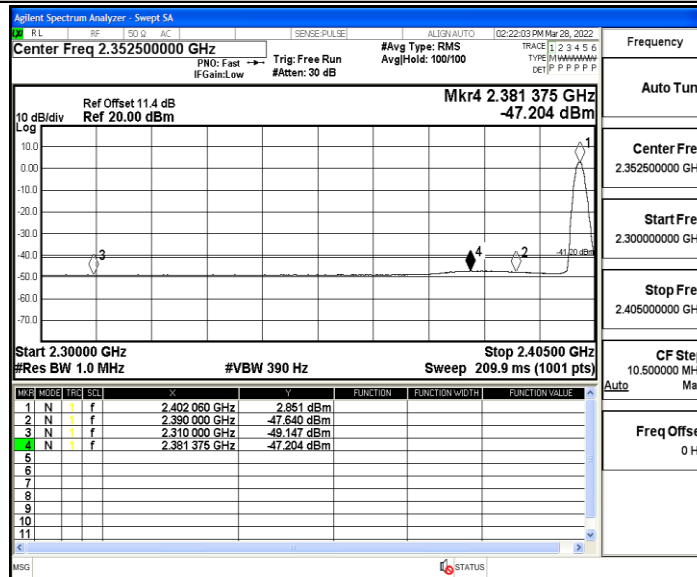
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.15	≤-41.20	PASS
				AV	2381.375	-47.2	≤-41.20	PASS
				AV	2390.000	-47.64	≤-41.20	PASS
				Peak	2310.000	-42.27	≤-21.20	PASS
				Peak	2378.225	-37.94	≤-21.20	PASS
				Peak	2390.000	-40.73	≤-21.20	PASS
		High	2480	AV	2483.500	-48.05	≤-41.20	PASS
				AV	2498.800	-47.15	≤-41.20	PASS
				AV	2500.000	-47.18	≤-41.20	PASS
				Peak	2483.500	-42.72	≤-21.20	PASS
				Peak	2491.360	-38.6	≤-21.20	PASS
				Peak	2500.000	-42.11	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.1	≤-41.20	PASS
				AV	2382.215	-47.01	≤-41.20	PASS
				AV	2390.000	-47.58	≤-41.20	PASS
				Peak	2310.000	-42.32	≤-21.20	PASS
				Peak	2382.425	-37.4	≤-21.20	PASS
				Peak	2390.000	-39.61	≤-21.20	PASS
		High	2480	AV	2483.500	-48.17	≤-41.20	PASS
				AV	2499.040	-47.14	≤-41.20	PASS
				AV	2500.000	-47.14	≤-41.20	PASS
				Peak	2483.500	-42.26	≤-21.20	PASS
				Peak	2499.040	-39.3	≤-21.20	PASS
				Peak	2500.000	-43.77	≤-21.20	PASS

Note:

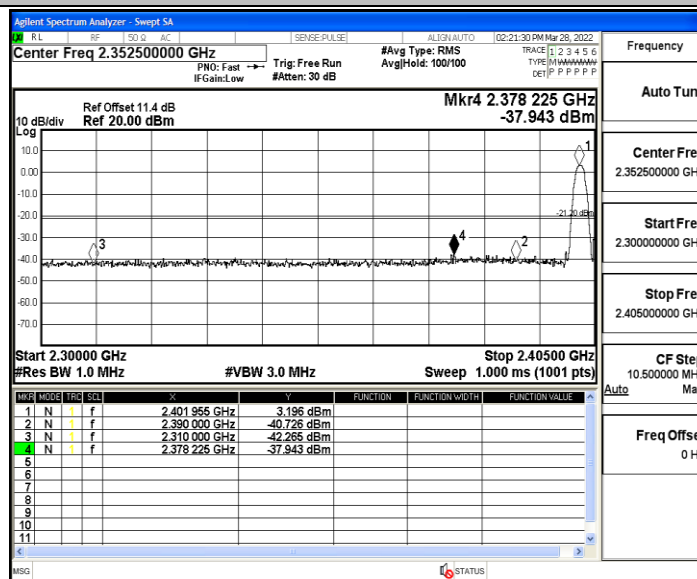
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

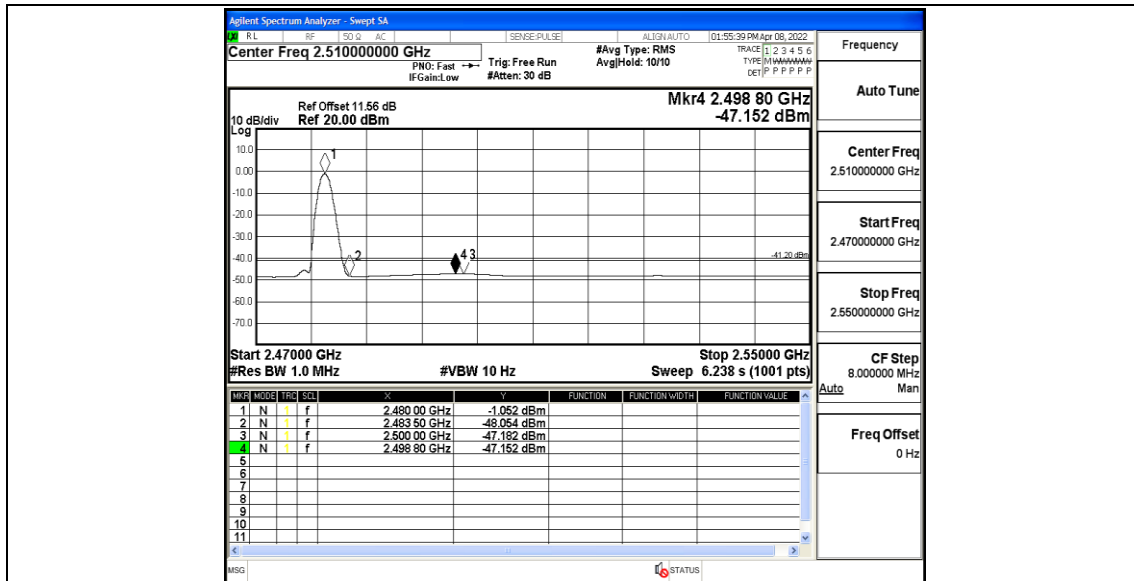
DH5_Ant1_Low_2402_AV



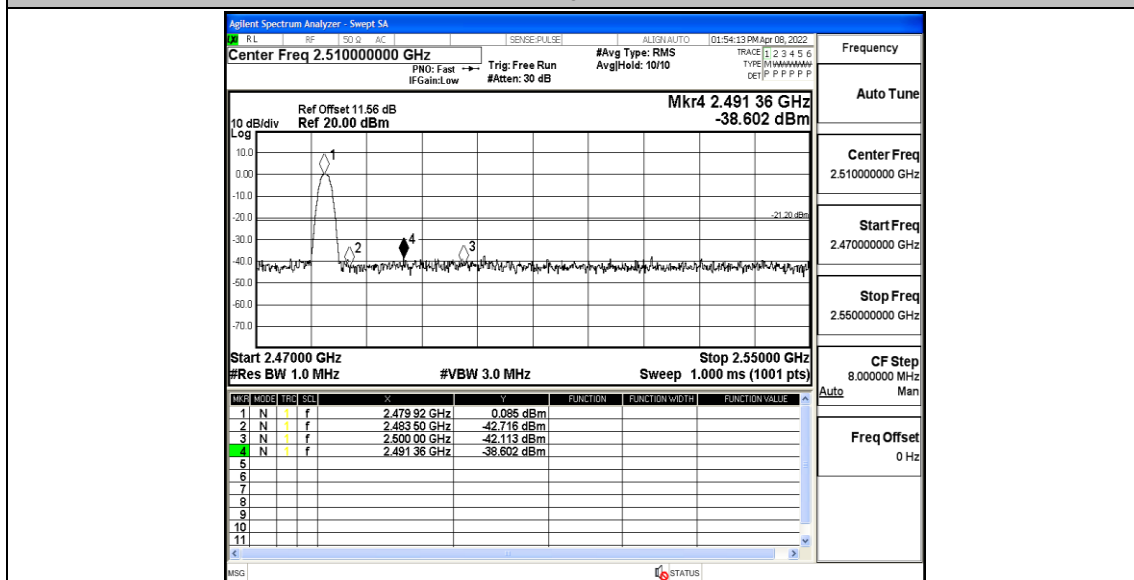
DH5_Ant1_Low_2402_Peak



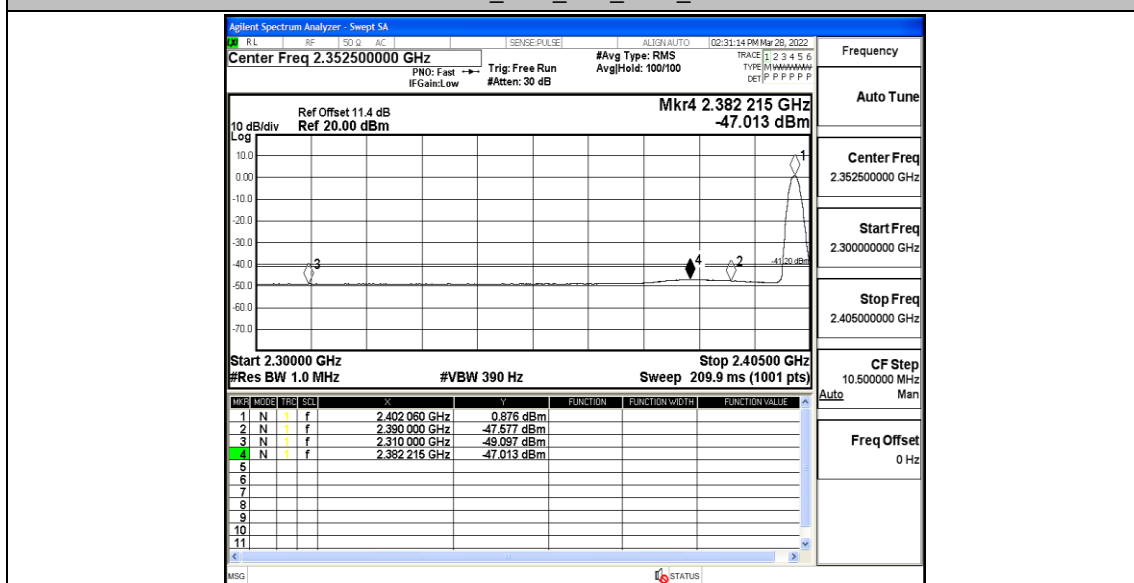
DH5_Ant1_High_2480_AV



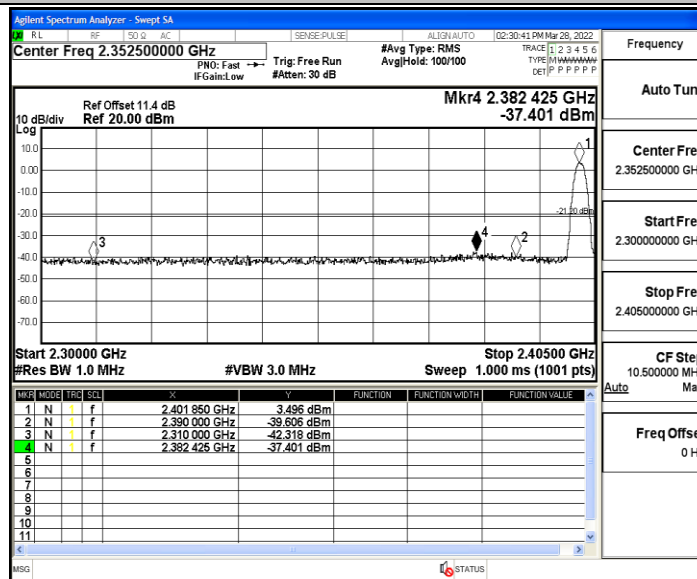
DH5_Ant1_High_2480_Peak



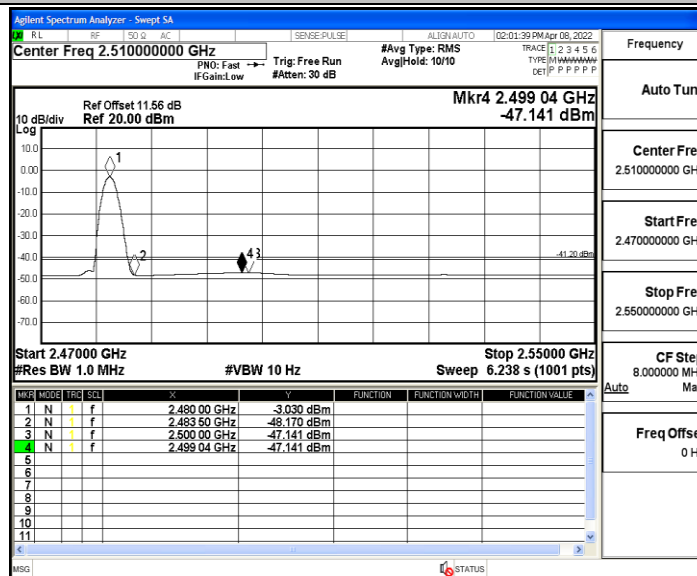
2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak

