

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

Product Name: Wireless headphone

Trade Mark: N/A

Test Model: RY-WH01

FCC ID: 2A2QG-RY-WH01

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

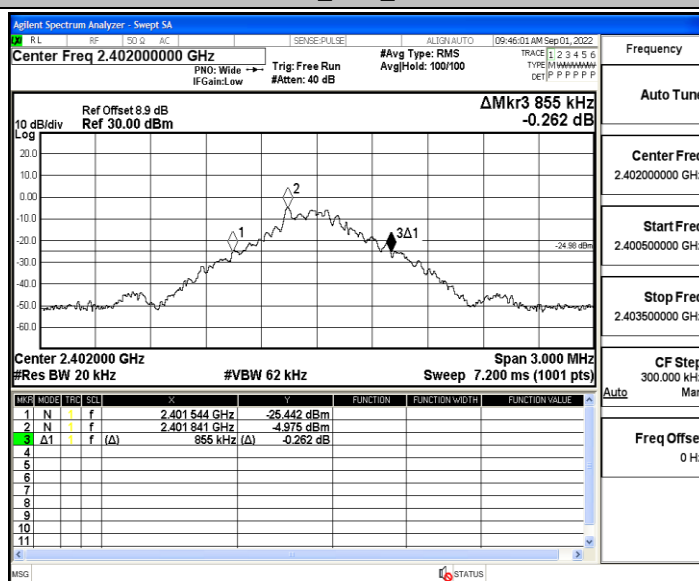
Appendix A: 20dB Emission Bandwidth

Test Result

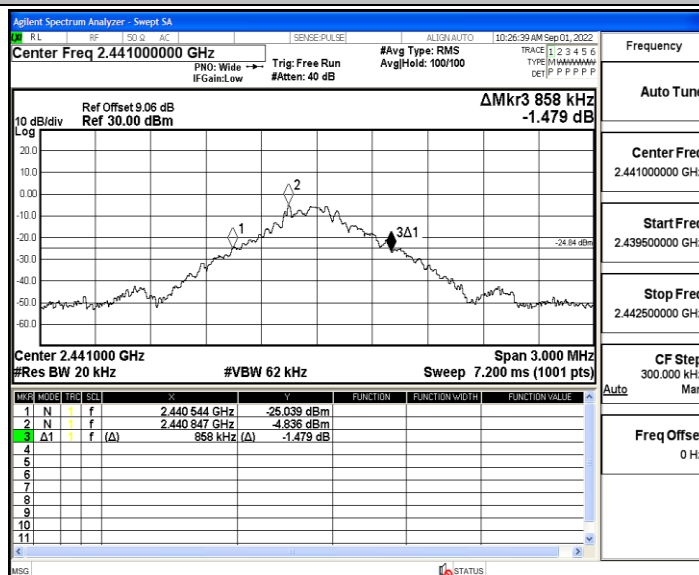
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.855	2401.544	2402.399	---	---
		2441	0.858	2440.544	2441.402	---	---
		2480	0.855	2479.544	2480.399	---	---
2DH5	Ant1	2402	1.188	2401.397	2402.585	---	---
		2441	1.197	2440.394	2441.591	---	---
		2480	1.194	2479.397	2480.591	---	---
3DH5	Ant1	2402	1.185	2401.409	2402.594	---	---
		2441	1.236	2440.364	2441.600	---	---
		2480	1.254	2479.361	2480.615	---	---

Test Graphs

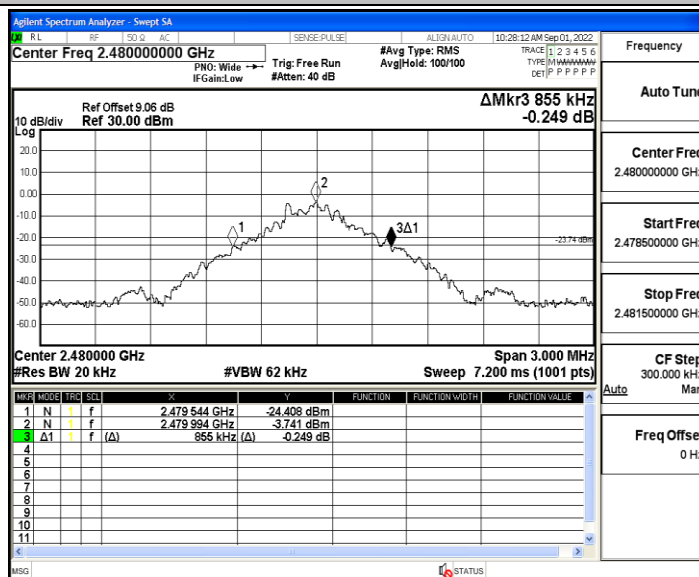
DH5_Ant1_2402



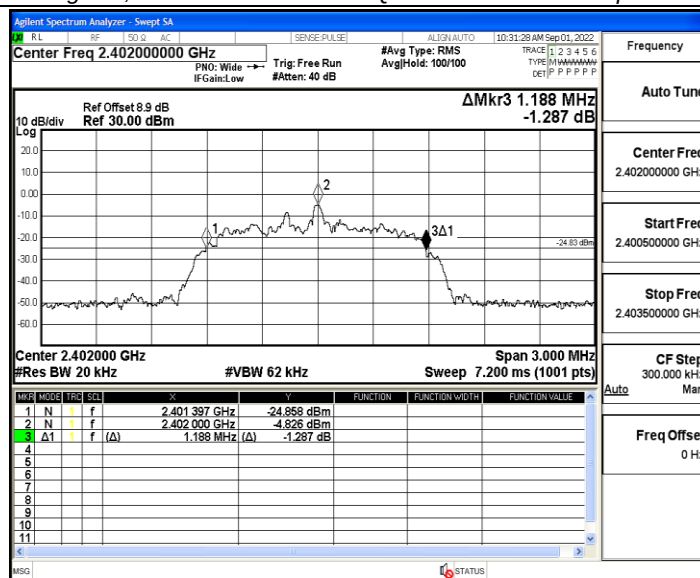
DH5_Ant1_2441



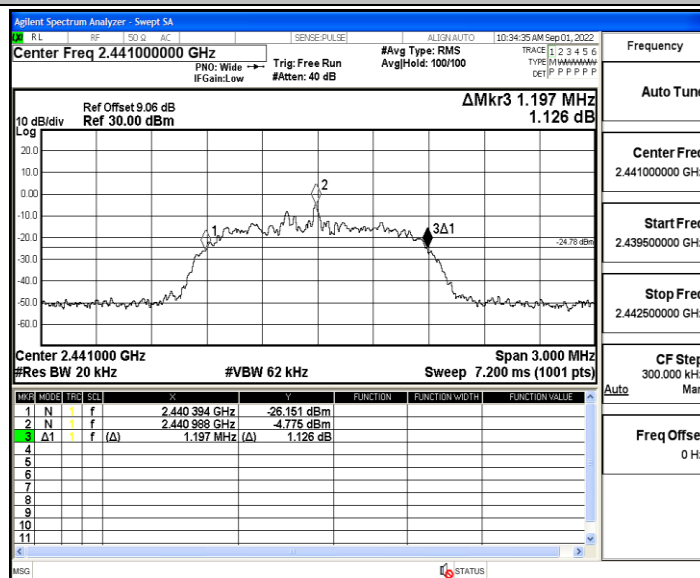
DH5_Ant1_2480



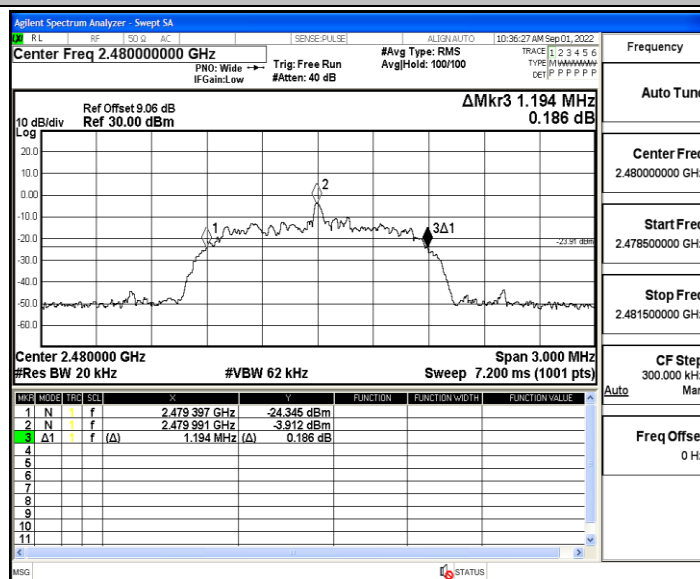
2DH5_Ant1_2402



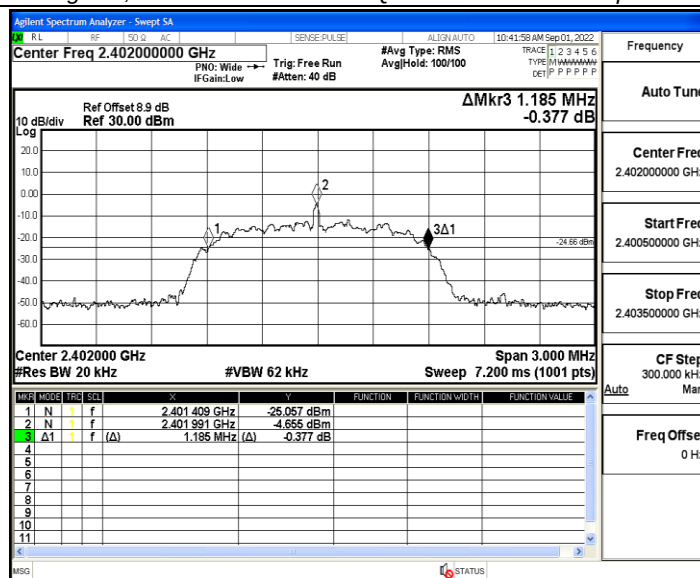
2DH5_Ant1_2441



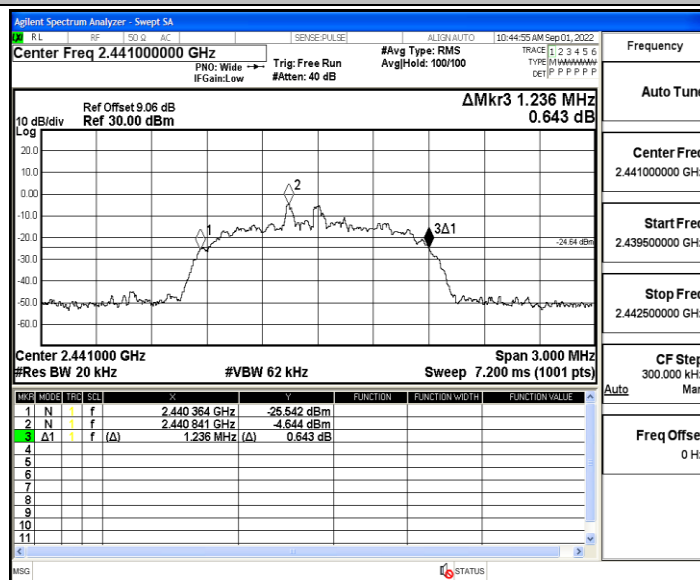
2DH5_Ant1_2480



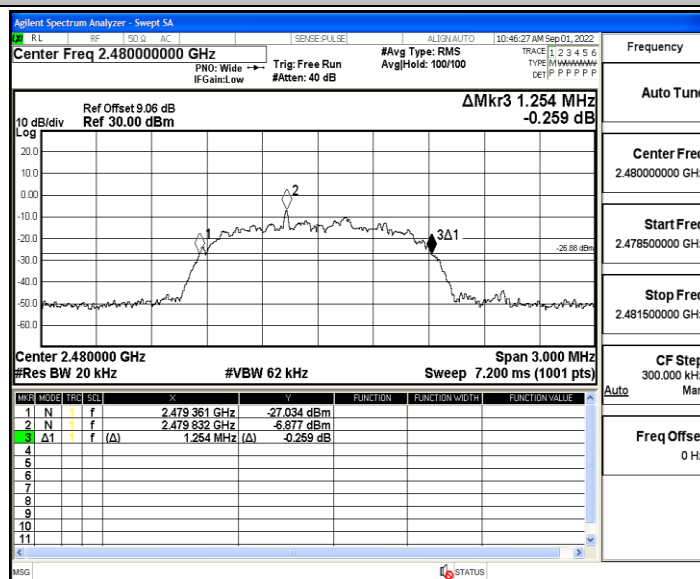
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



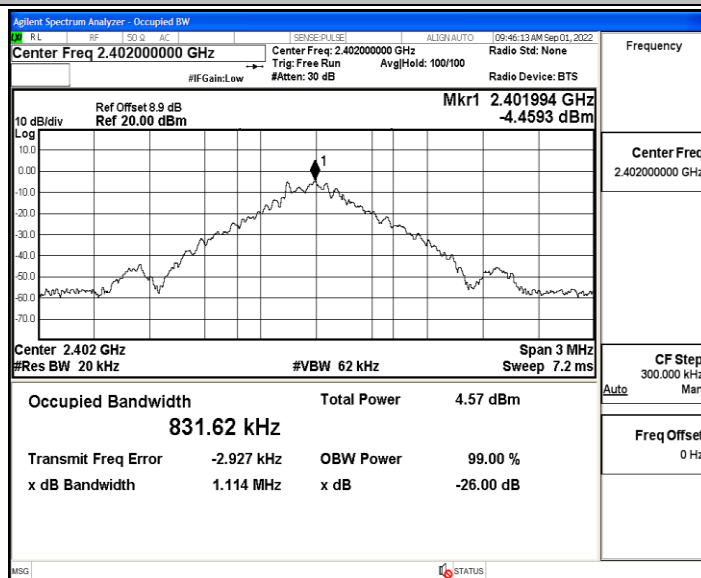
Appendix B: Occupied Channel Bandwidth

Test Result

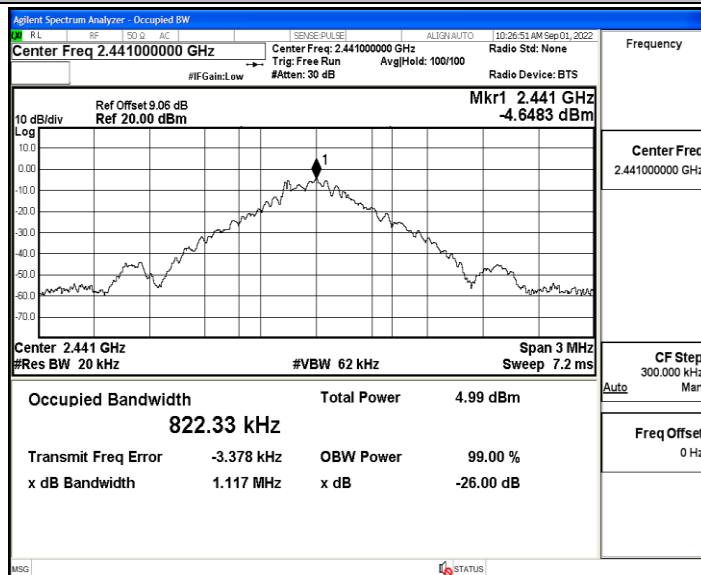
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83162	2401.581	2402.413	---	---
		2441	0.82233	2440.585	2441.408	---	---
		2480	0.82540	2479.580	2480.406	---	---
2DH5	Ant1	2402	1.1780	2401.405	2402.583	---	---
		2441	1.1541	2440.416	2441.570	---	---
		2480	1.1777	2479.405	2480.582	---	---
3DH5	Ant1	2402	1.1519	2401.420	2402.571	---	---
		2441	1.1473	2440.422	2441.569	---	---
		2480	1.1430	2479.425	2480.568	---	---

Test Graphs

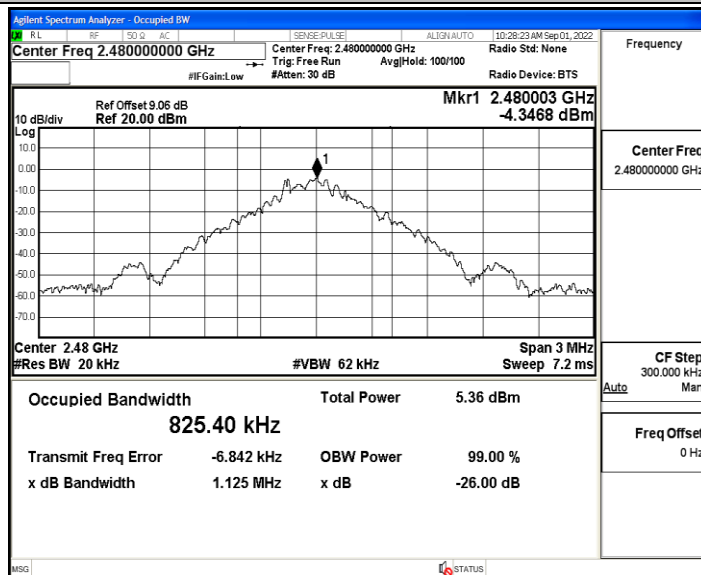
DH5_Ant1_2402



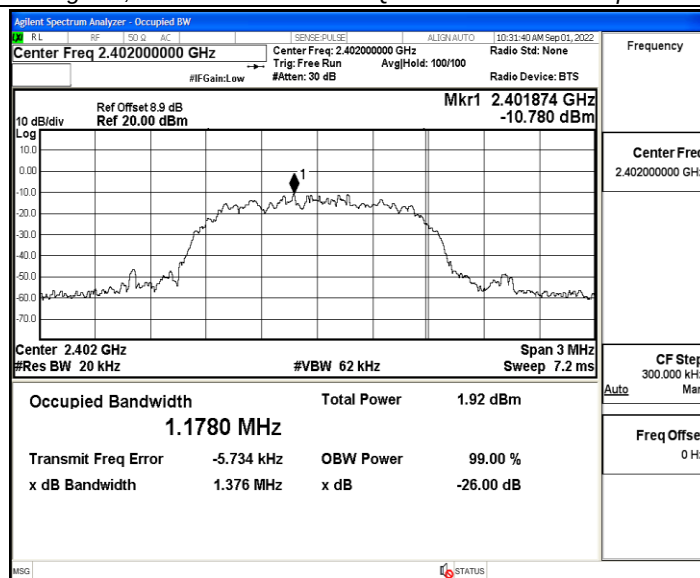
DH5_Ant1_2441



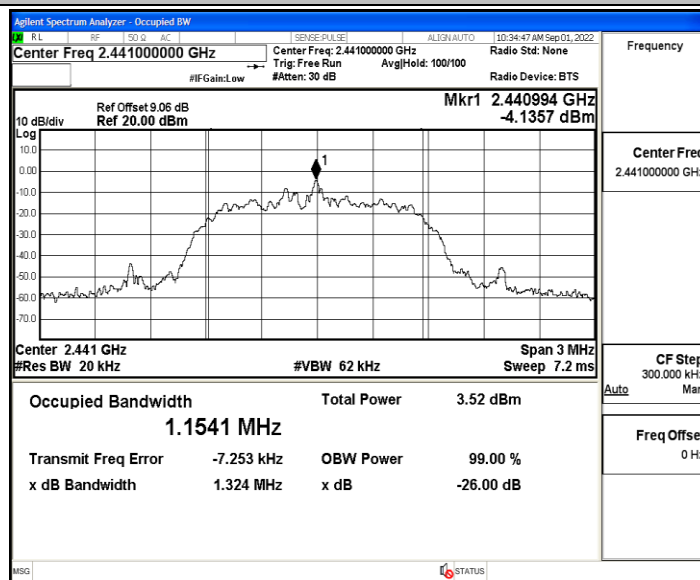
DH5_Ant1_2480



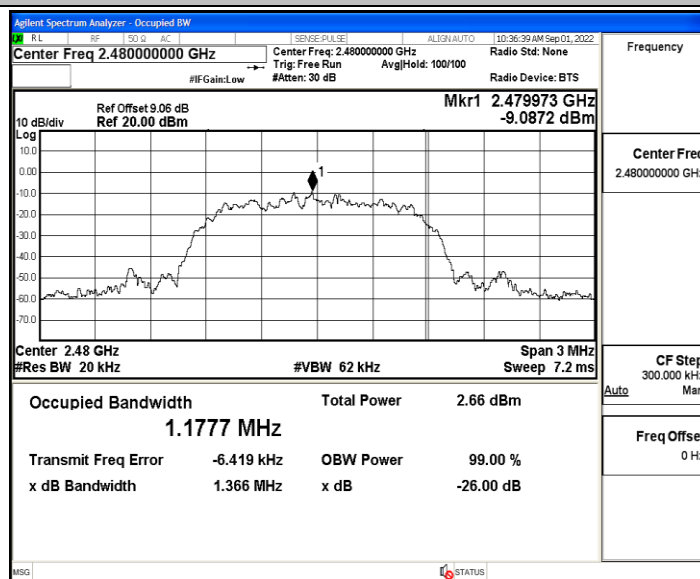
2DH5_Ant1_2402



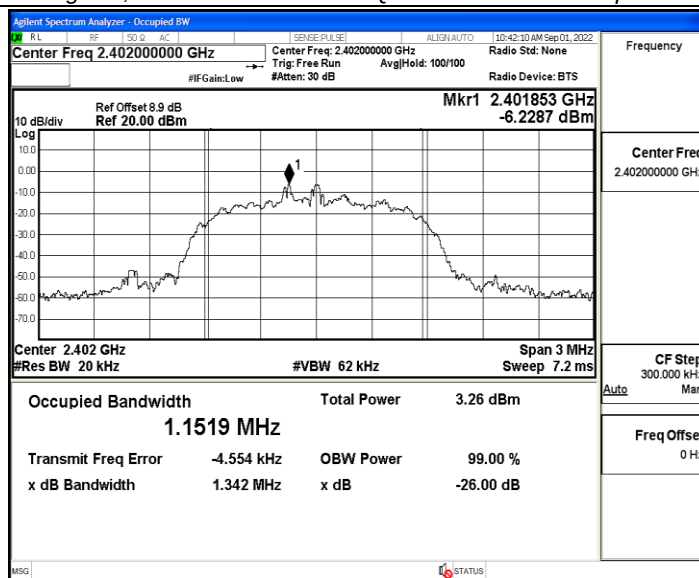
2DH5_Ant1_2441



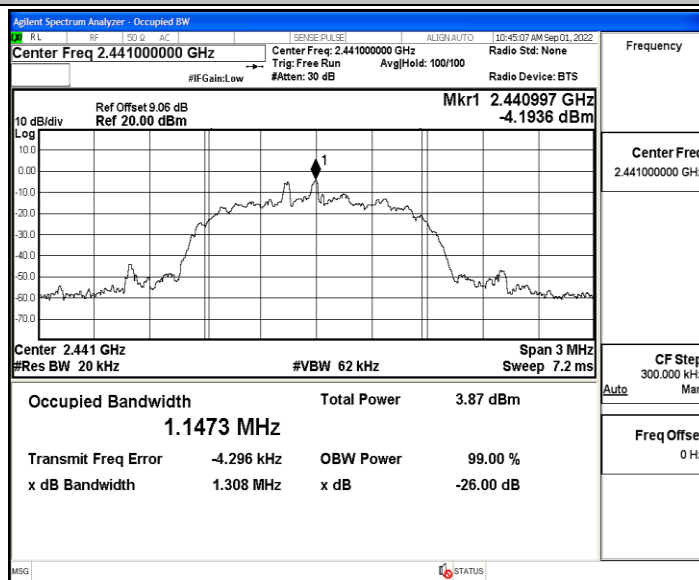
2DH5_Ant1_2480



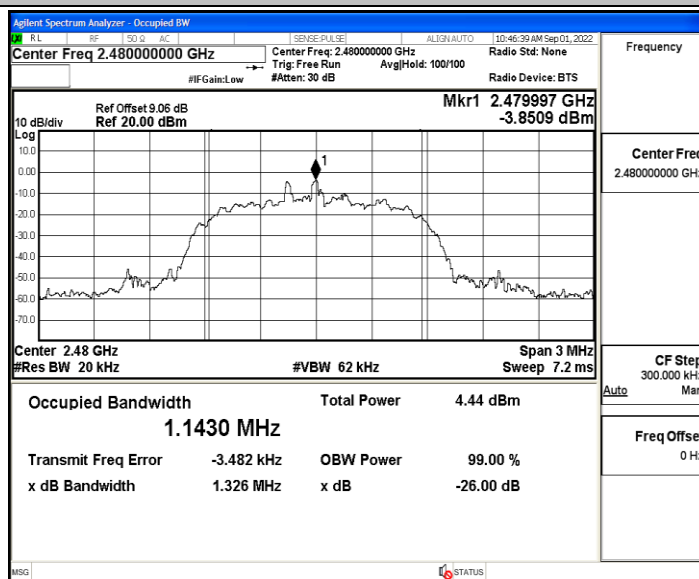
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



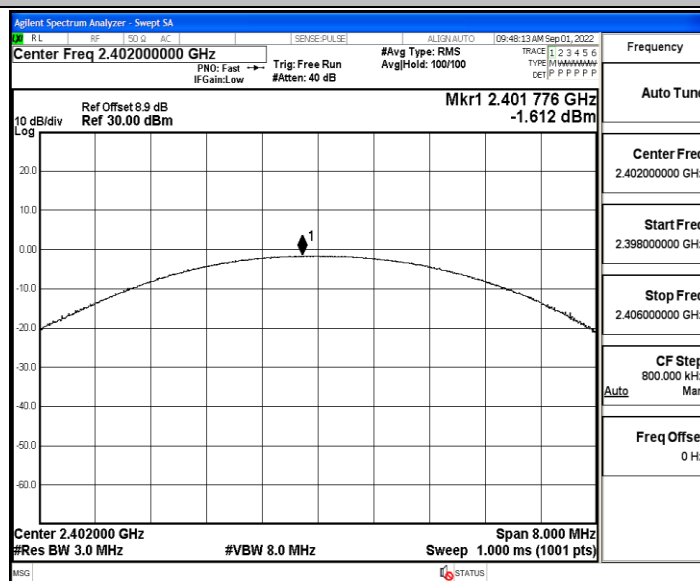
Appendix C: Maximum Peak conducted output power

Test Result

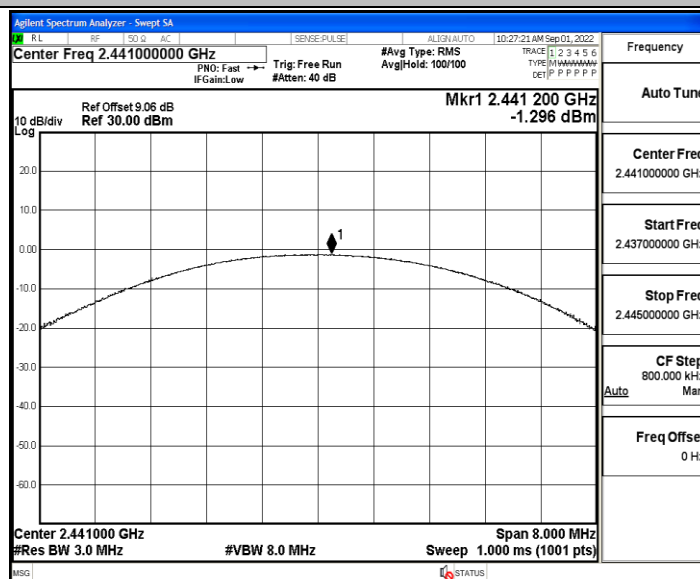
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.61	≤30	PASS
		2441	-1.3	≤30	PASS
		2480	-0.89	≤30	PASS
2DH5	Ant1	2402	-1.67	≤20.97	PASS
		2441	-1.36	≤20.97	PASS
		2480	-0.91	≤20.97	PASS
3DH5	Ant1	2402	-1.67	≤20.97	PASS
		2441	-1.24	≤20.97	PASS
		2480	-0.88	≤20.97	PASS

Test Graphs

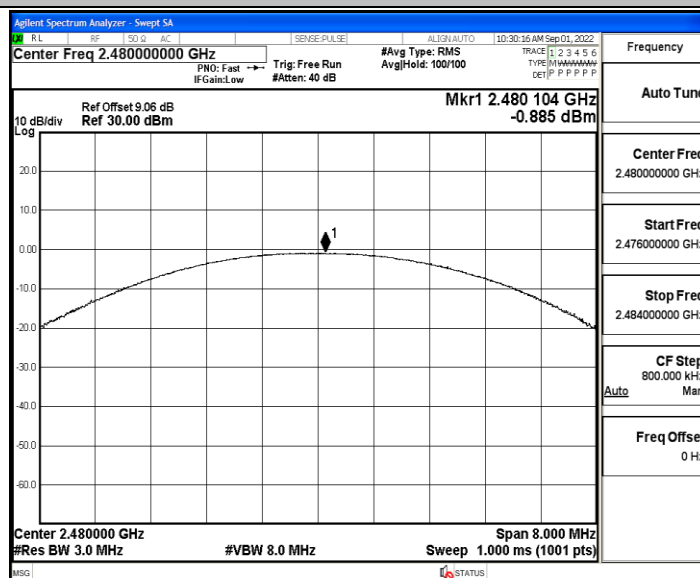
DH5_Ant1_2402



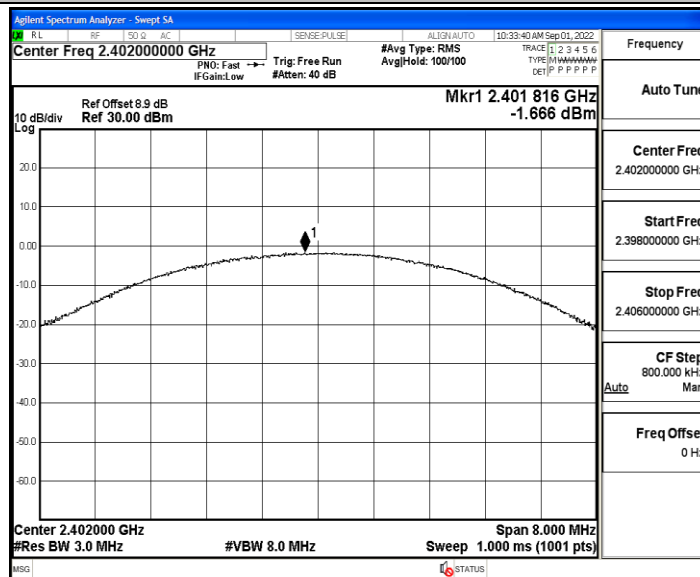
DH5_Ant1_2441



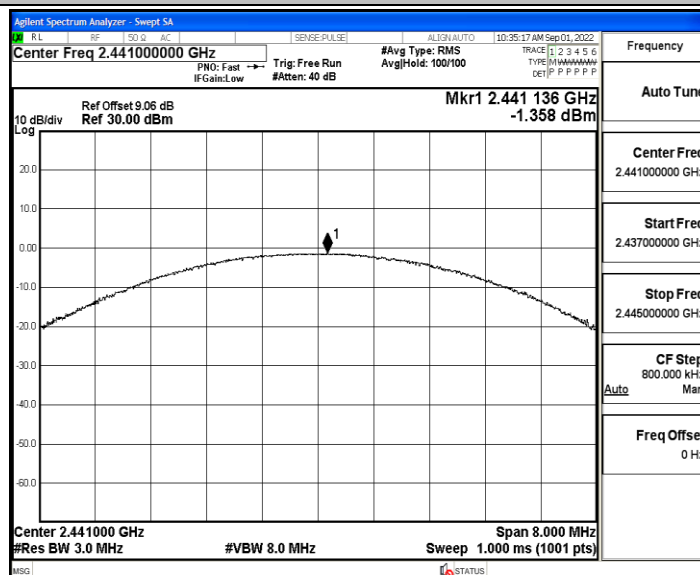
DH5_Ant1_2480



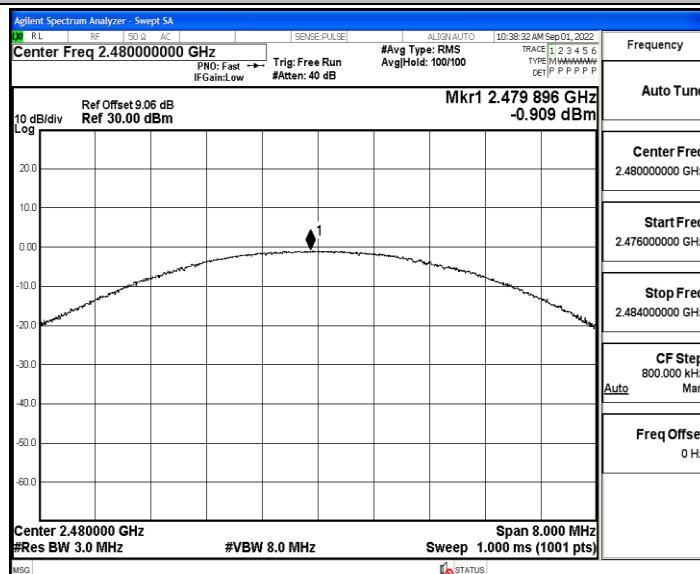
2DH5_Ant1_2402



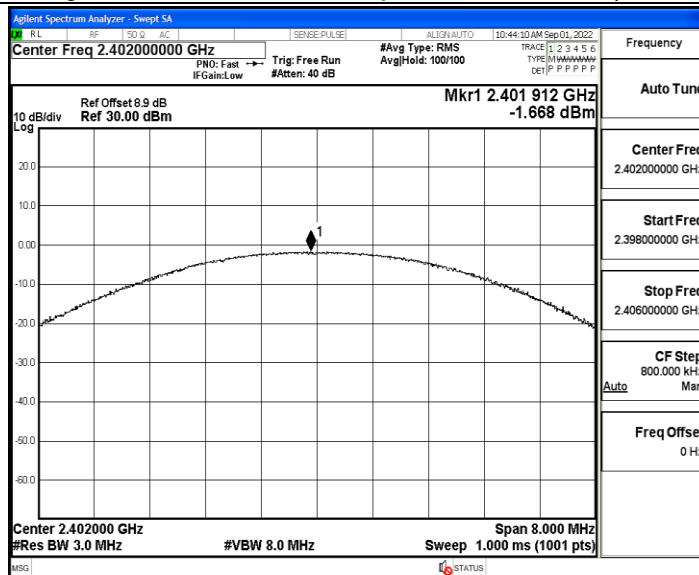
2DH5_Ant1_2441



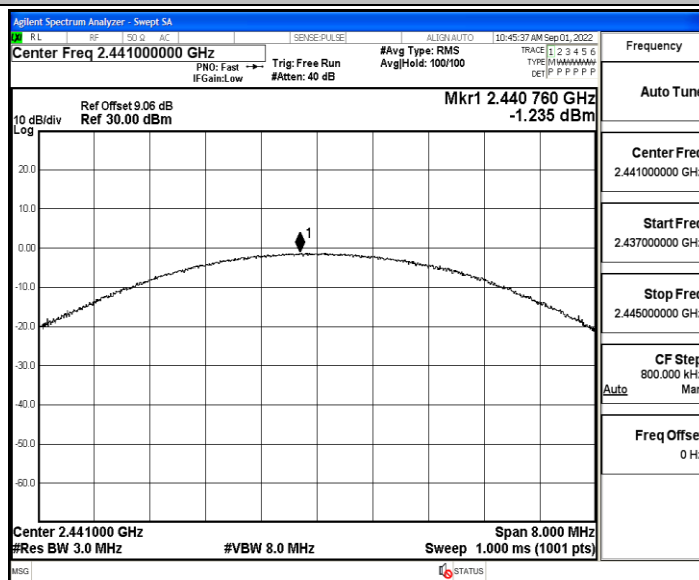
2DH5_Ant1_2480



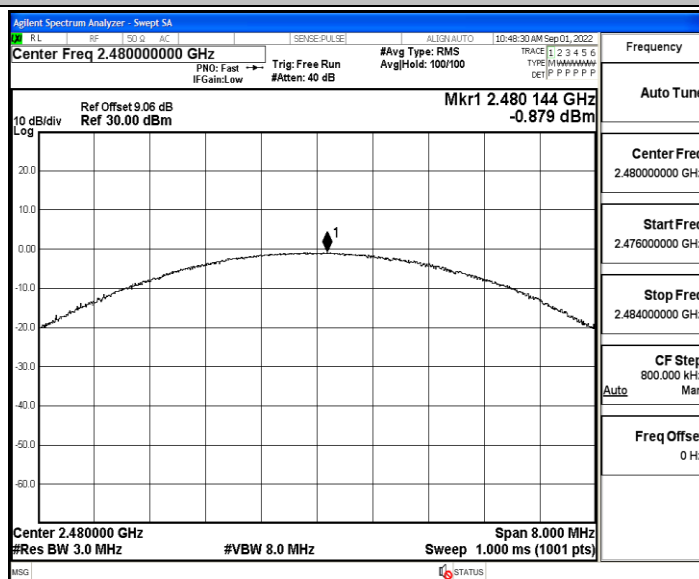
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

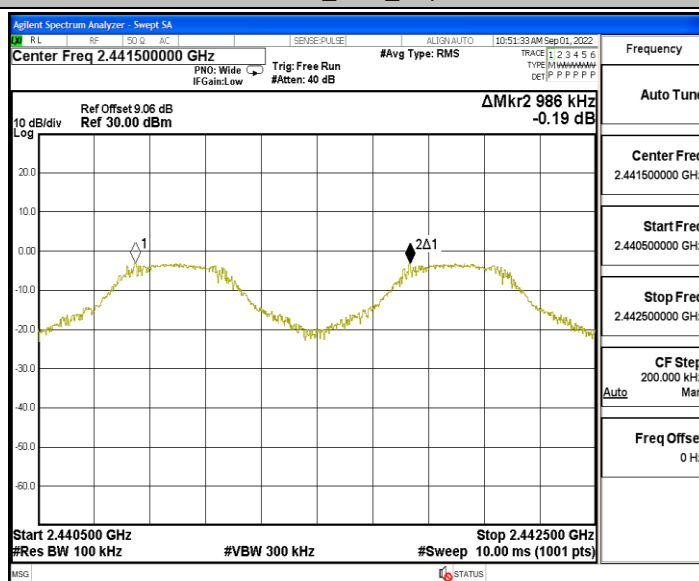


Appendix D: Carrier frequency separation

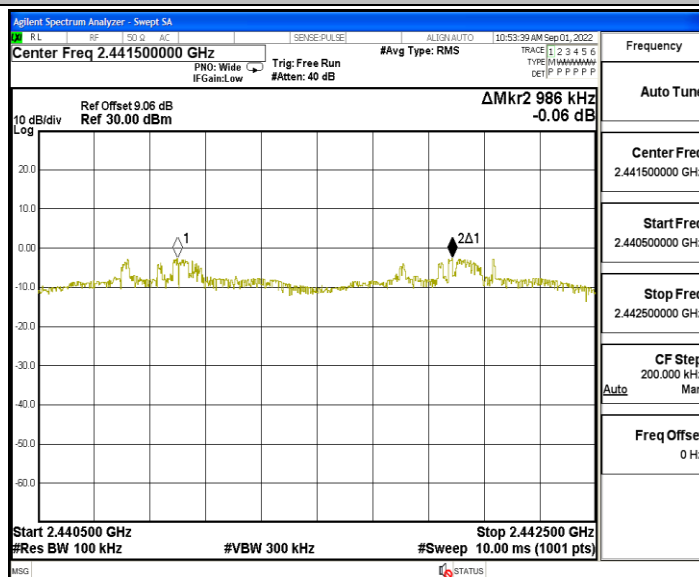
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.986	≥ 0.858	PASS
2DH5	Ant1	Hop	0.986	≥ 0.798	PASS
3DH5	Ant1	Hop	1.004	≥ 0.836	PASS

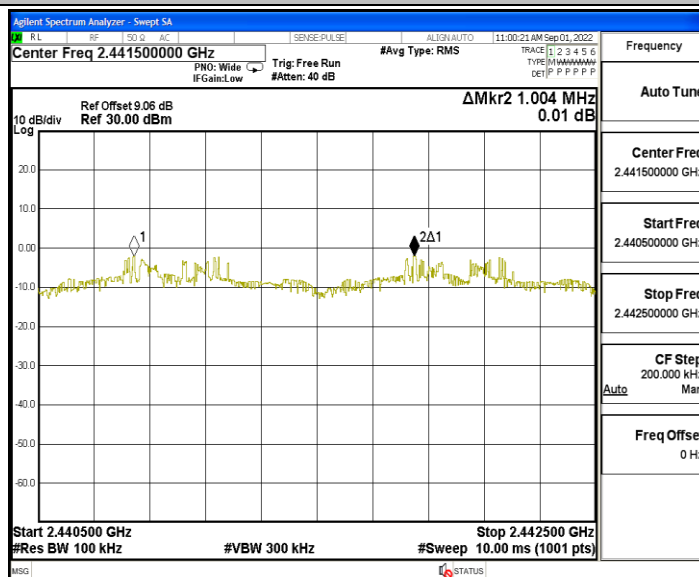
DH5 Ant1 Hop



2DH5 Ant1 Hop



3DH5_Ant1_Hop

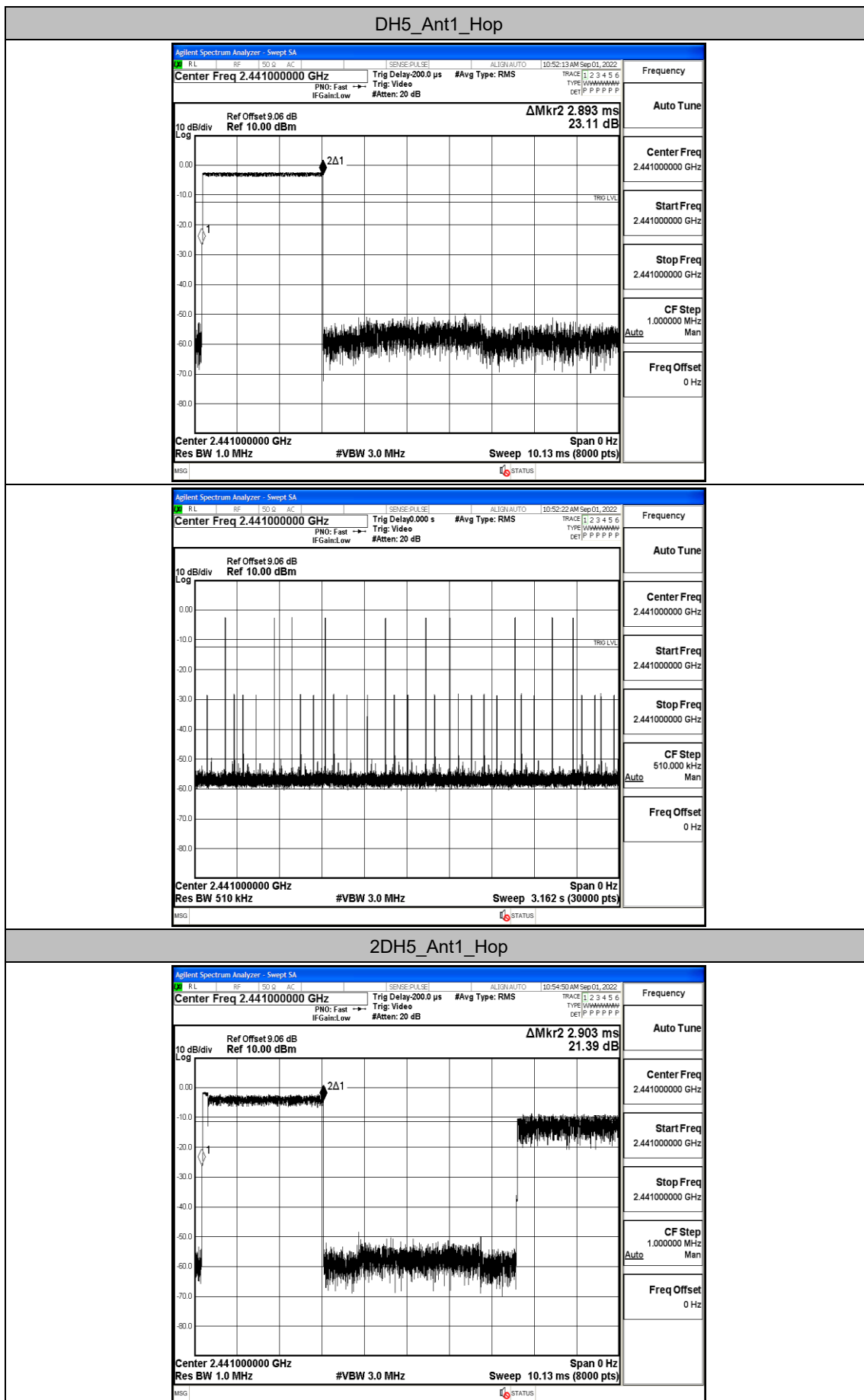


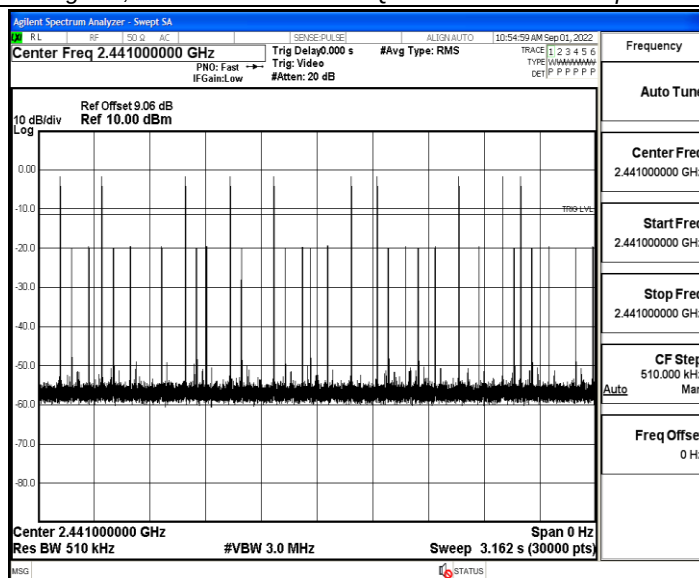
Appendix E: Time of occupancy

Test Result

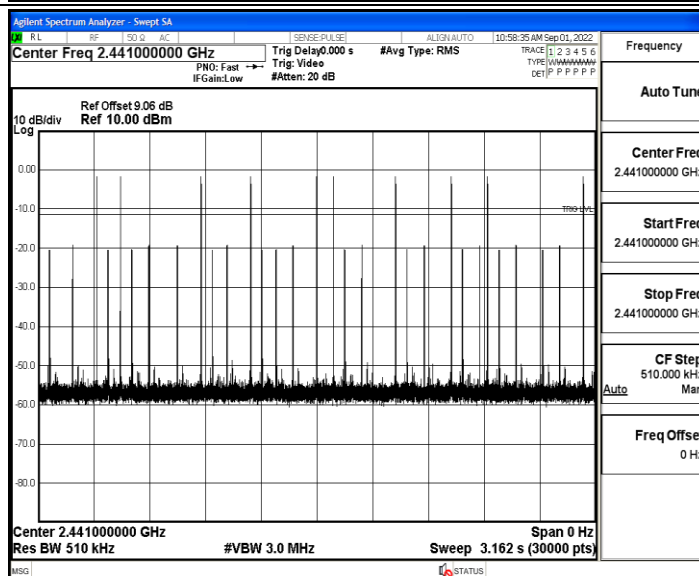
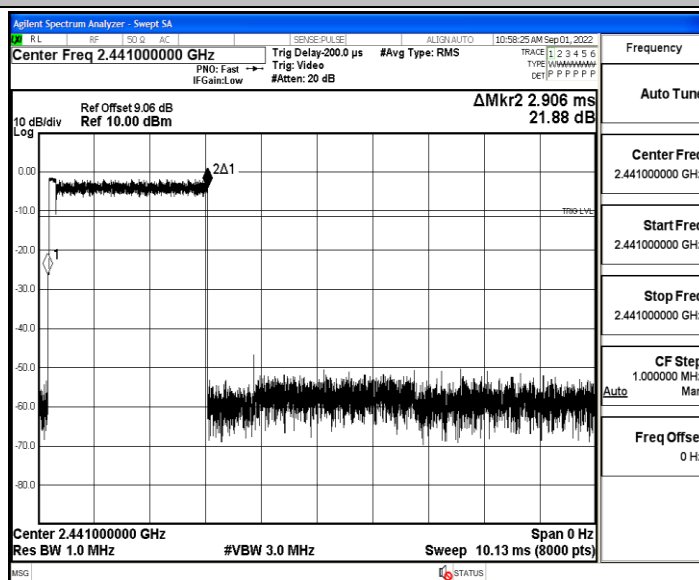
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.90	110	0.319	≤0.4	PASS
3DH5	Ant1	Hop	2.91	110	0.32	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop

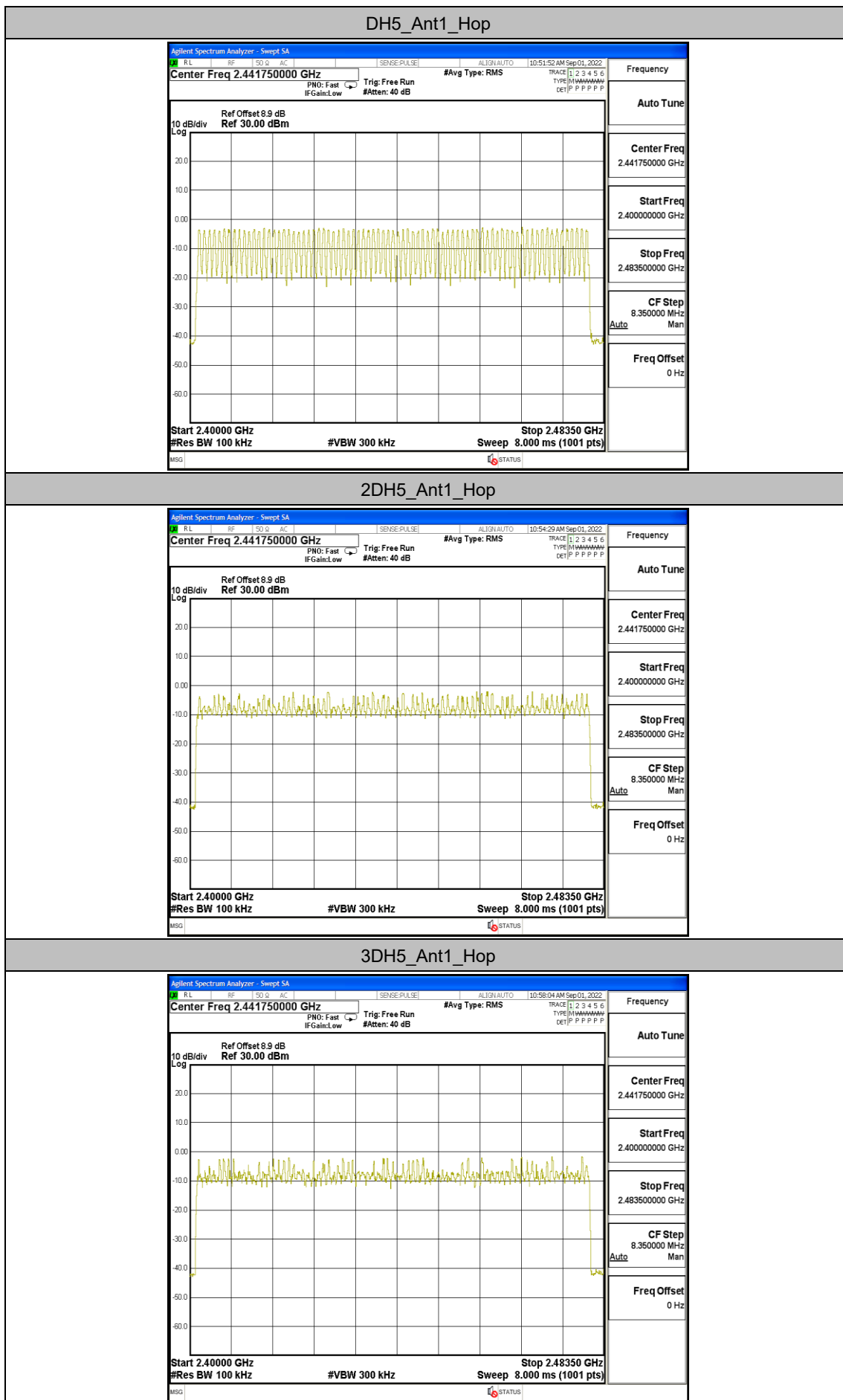


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



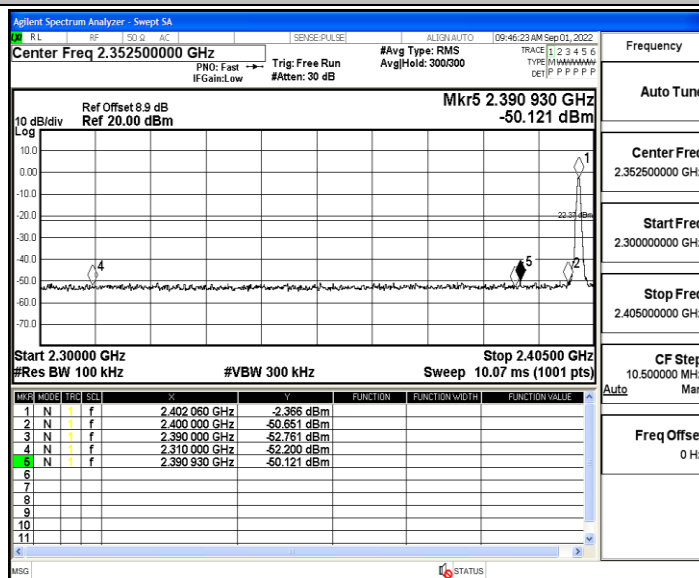
Appendix G: Band edge measurements

Test Result

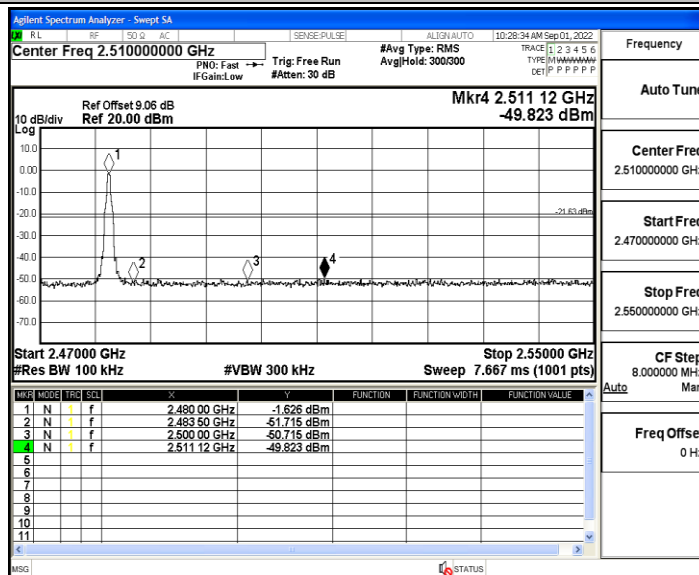
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.37	-50.12	≤ -22.37	PASS
		High	2480	-1.63	-49.82	≤ -21.63	PASS
		Low	Hop_2402	-4.01	-50.27	≤ -24.01	PASS
		High	Hop_2480	-2.52	-48.74	≤ -22.52	PASS
2DH5	Ant1	Low	2402	-3.17	-50.35	≤ -23.17	PASS
		High	2480	-5.92	-49.57	≤ -25.92	PASS
		Low	Hop_2402	-3.75	-50.23	≤ -23.75	PASS
		High	Hop_2480	-6.56	-49.62	≤ -26.56	PASS
3DH5	Ant1	Low	2402	-2.38	-49.9	≤ -22.38	PASS
		High	2480	-1.65	-48.48	≤ -21.65	PASS
		Low	Hop_2402	-9.30	-50.55	≤ -29.3	PASS
		High	Hop_2480	-2.17	-49.33	≤ -22.17	PASS

Test Graphs

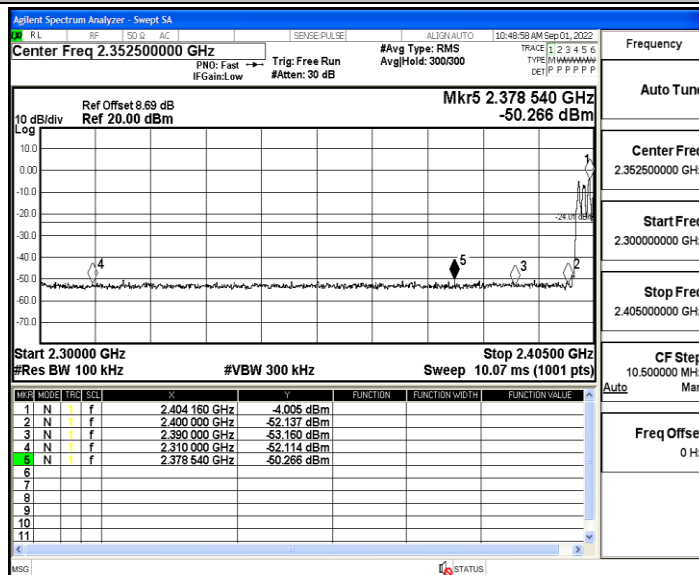
DH5_Ant1_Low_2402



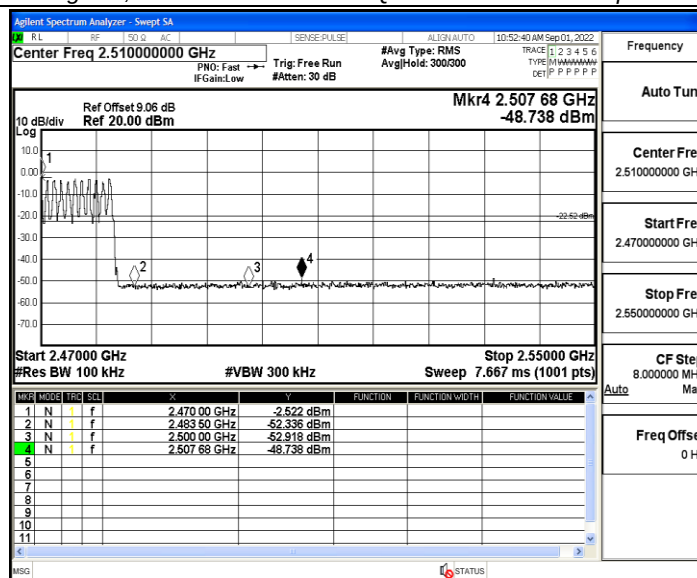
DH5_Ant1_High_2480



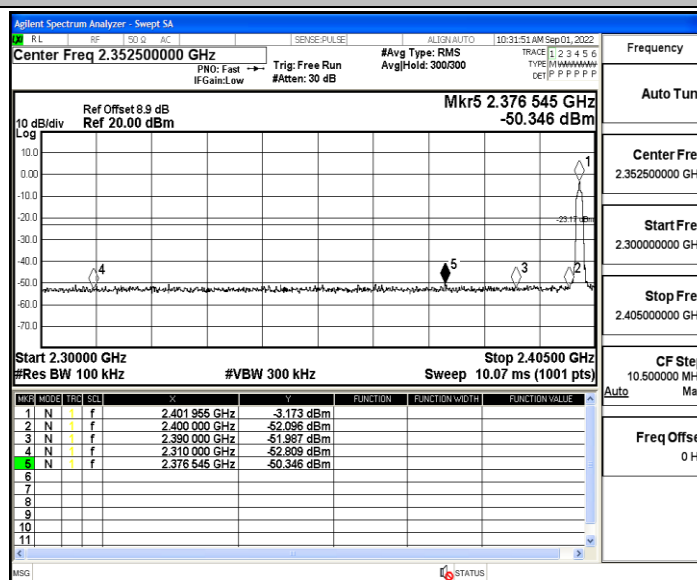
DH5_Ant1_Low_Hop_2402



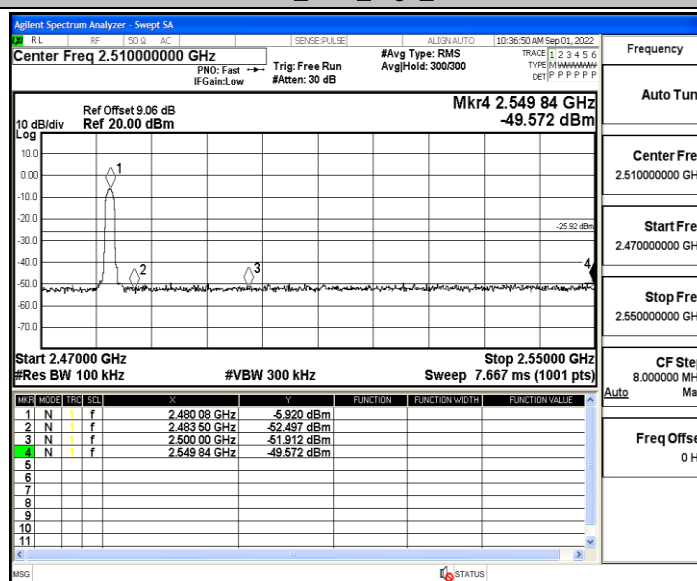
DH5_Ant1_High_Hop_2480



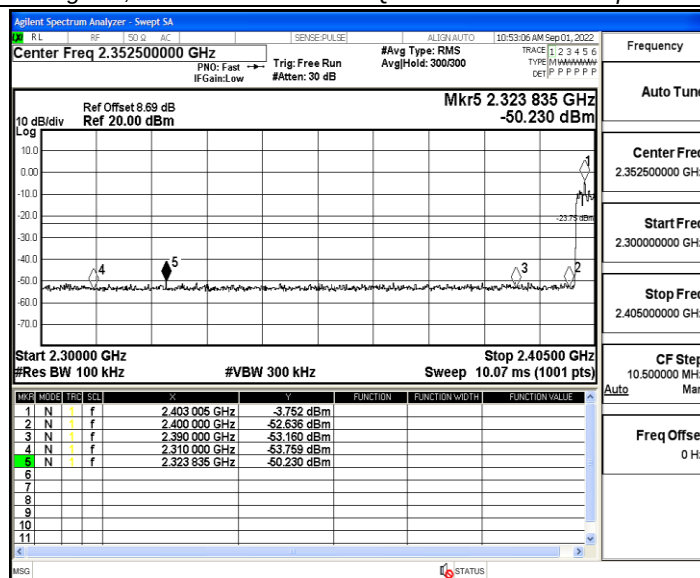
2DH5_Ant1_Low_2402



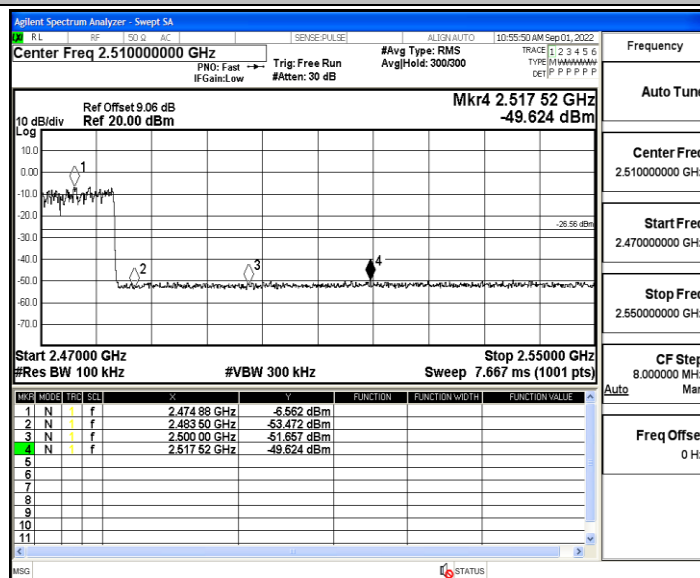
2DH5_Ant1_High_2480



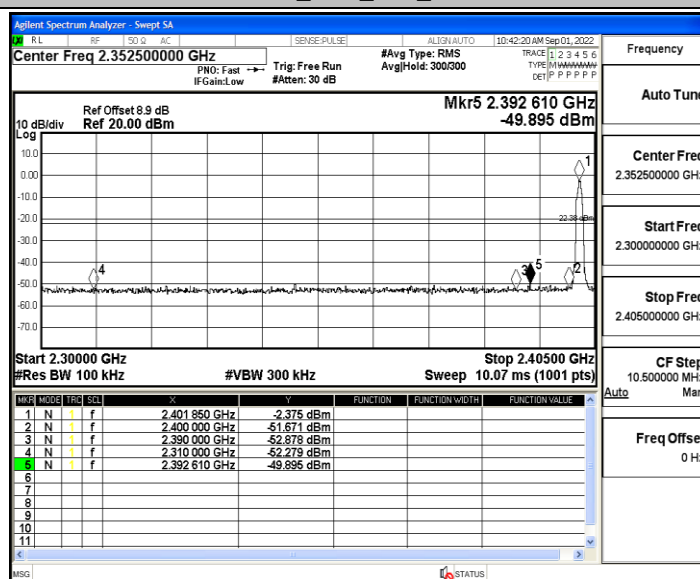
2DH5_Ant1_Low_Hop_2402



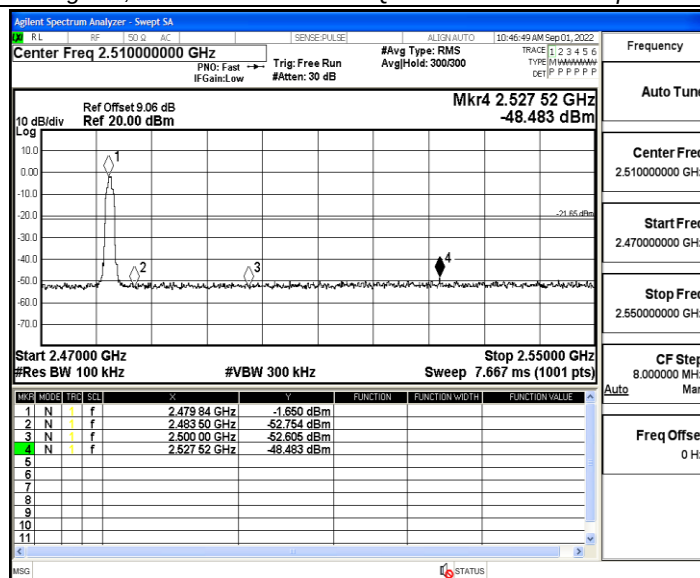
2DH5_Ant1_High_Hop_2480



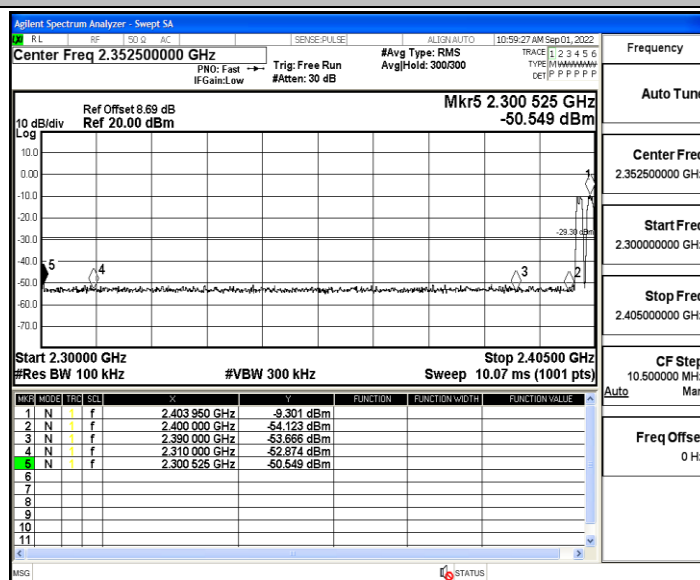
3DH5_Ant1_Low_2402



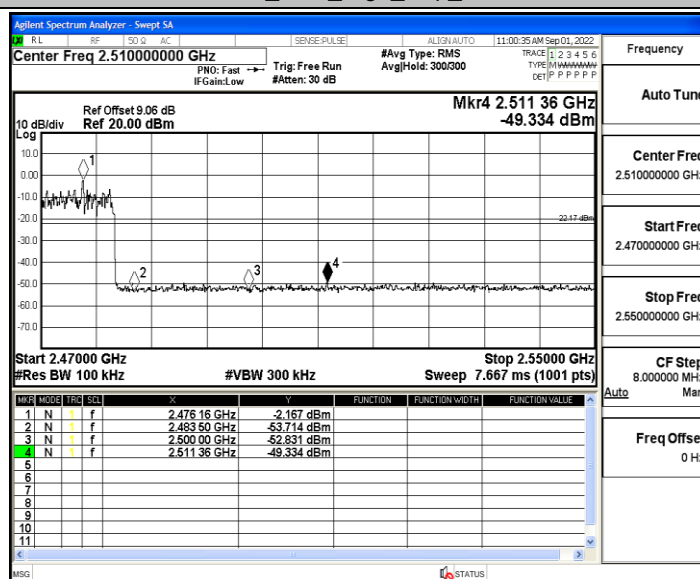
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



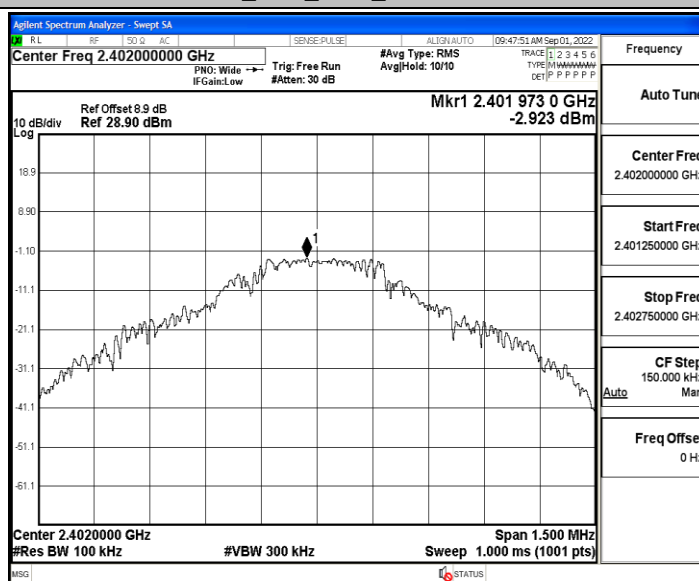
Appendix H: Conducted Spurious Emission

Test Result

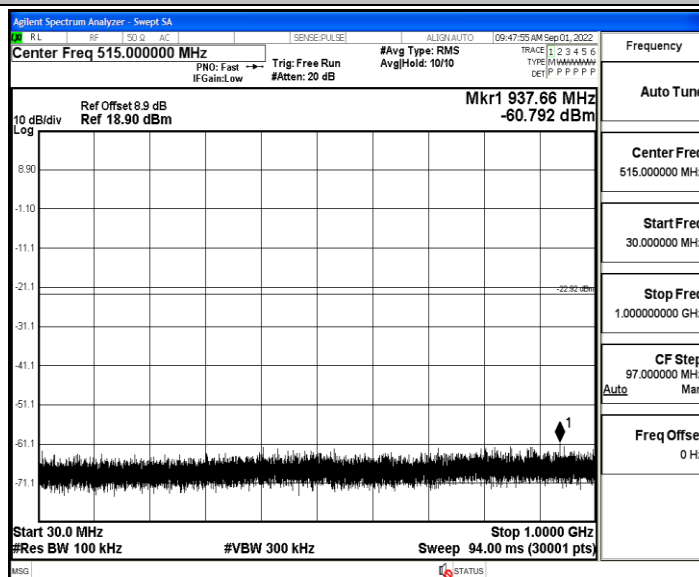
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-60.79	≤-22.92	PASS
			1000~26500	-2.92	-33.11	≤-22.92	PASS
		2441	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-61.9	≤-22.45	PASS
			1000~26500	-2.45	-35.02	≤-22.45	PASS
		2480	Reference	-2.10	-2.10	---	PASS
			30~1000	-2.10	-60.88	≤-22.1	PASS
			1000~26500	-2.10	-33.85	≤-22.1	PASS
2DH5	Ant1	2402	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-61.11	≤-26.61	PASS
			1000~26500	-6.61	-36.69	≤-26.61	PASS
		2441	Reference	-6.79	-6.79	---	PASS
			30~1000	-6.79	-60.98	≤-26.79	PASS
			1000~26500	-6.79	-39.22	≤-26.79	PASS
		2480	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-60.09	≤-24.97	PASS
			1000~26500	-4.97	-40.61	≤-24.97	PASS
3DH5	Ant1	2402	Reference	-6.13	-6.13	---	PASS
			30~1000	-6.13	-61.87	≤-26.13	PASS
			1000~26500	-6.13	-39.54	≤-26.13	PASS
		2441	Reference	-6.68	-6.68	---	PASS
			30~1000	-6.68	-62	≤-26.68	PASS
			1000~26500	-6.68	-37.54	≤-26.68	PASS
		2480	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-60.67	≤-22.05	PASS
			1000~26500	-2.05	-39	≤-22.05	PASS

Test Graphs

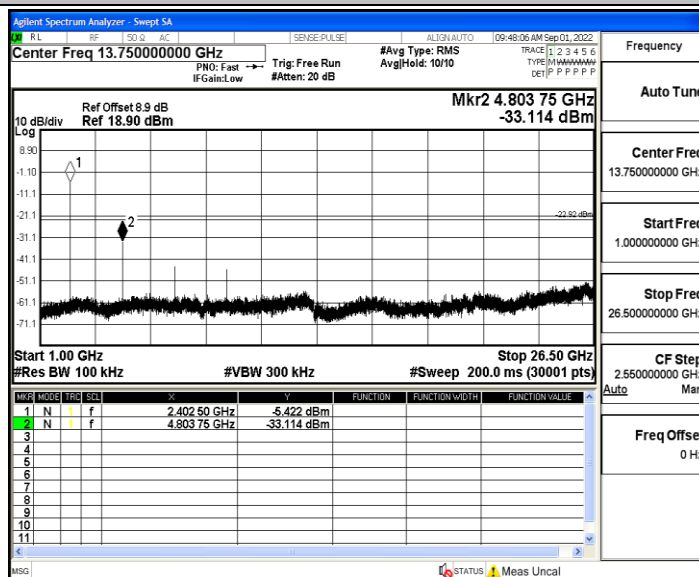
DH5_Ant1_2402_0~Reference



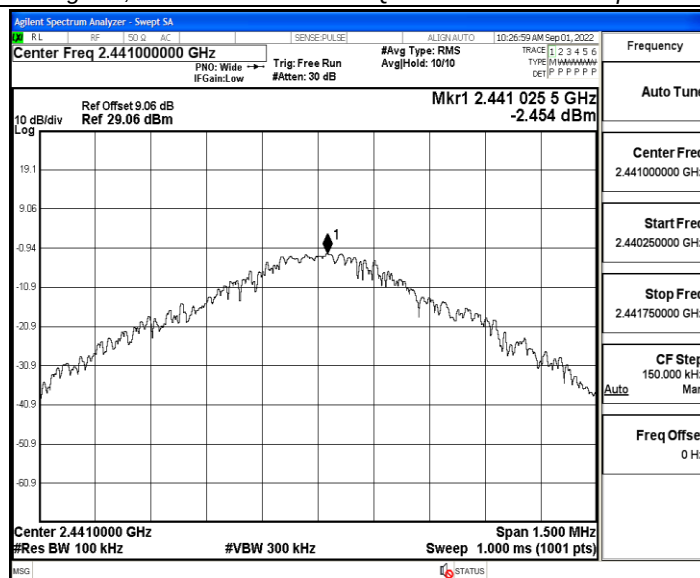
DH5_Ant1_2402_30~1000



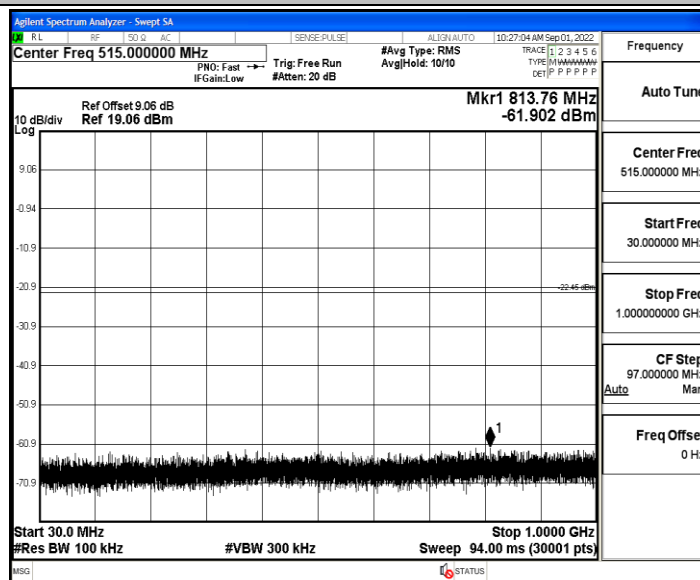
DH5_Ant1_2402_1000~26500



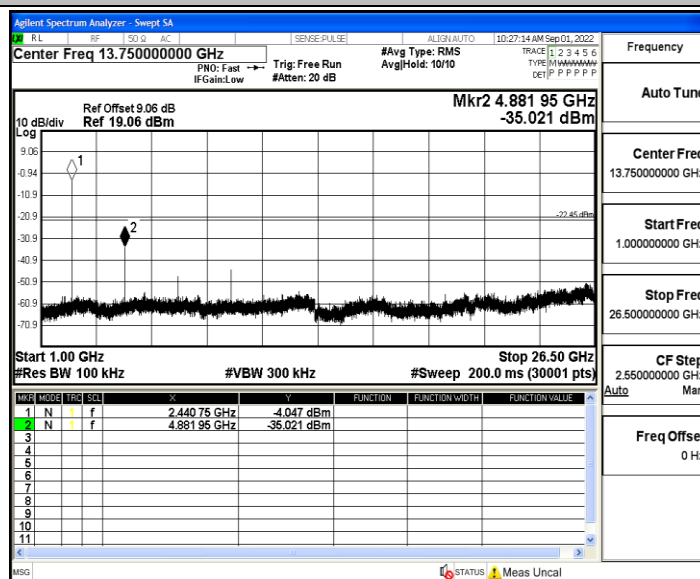
DH5_Ant1_2441_0~Reference



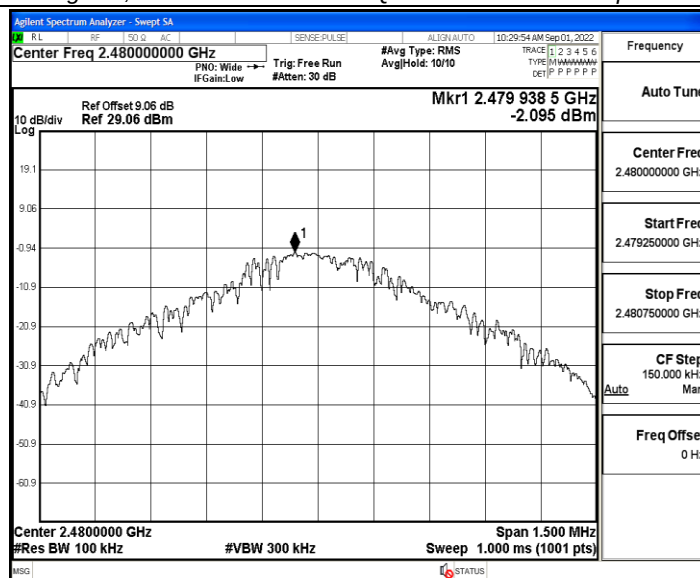
DH5_Ant1_2441_30~1000



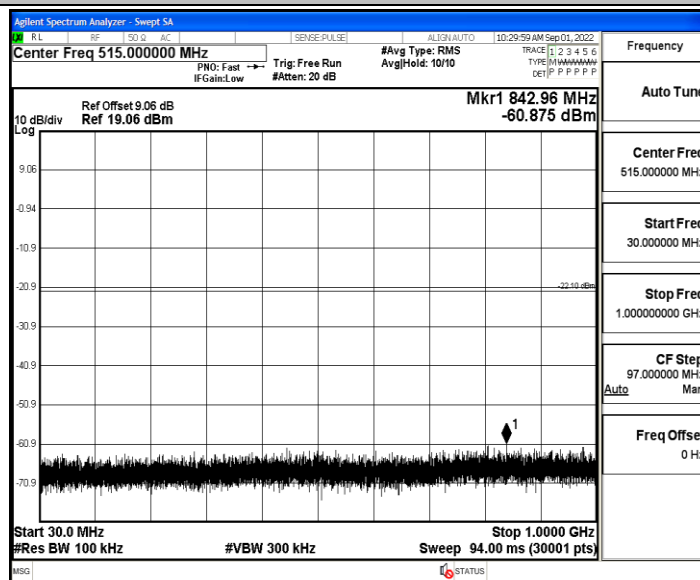
DH5_Ant1_2441_1000~26500



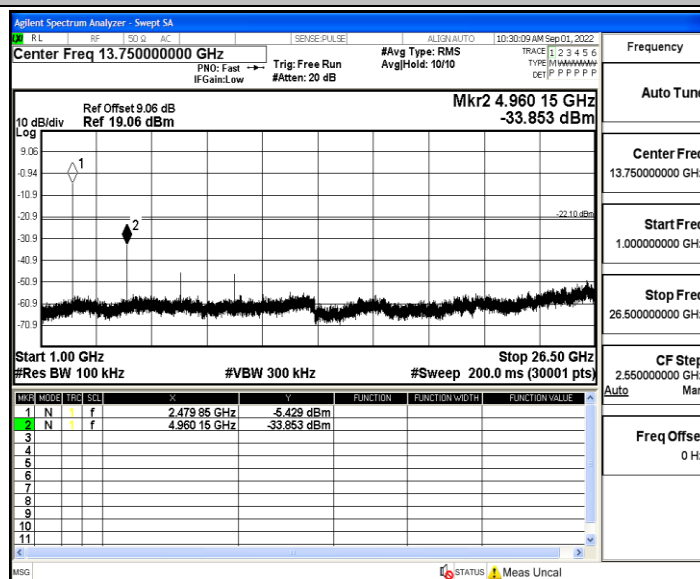
DH5_Ant1_2480_0~Reference



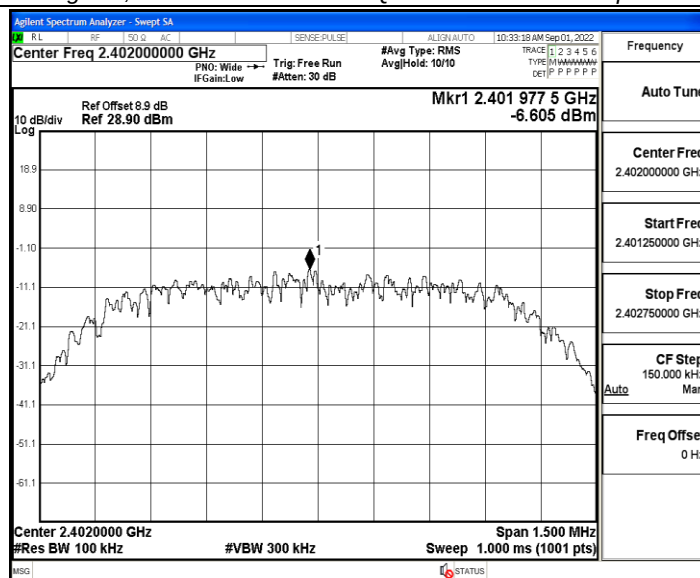
DH5_Ant1_2480_30~1000



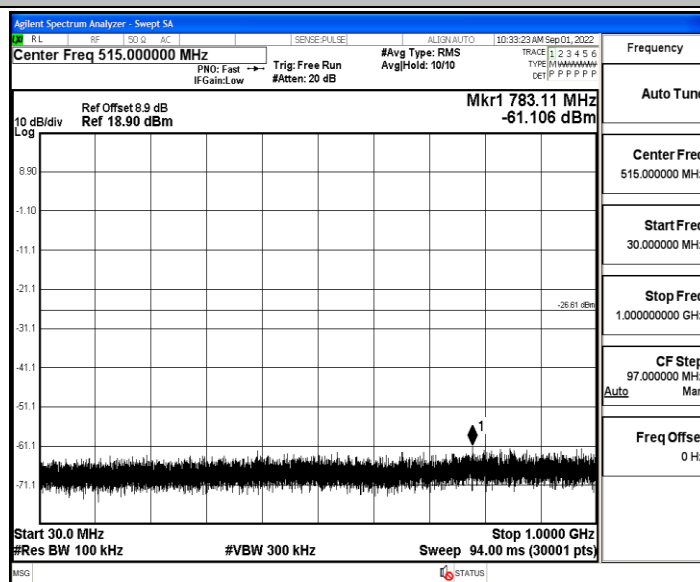
DH5_Ant1_2480_1000~26500



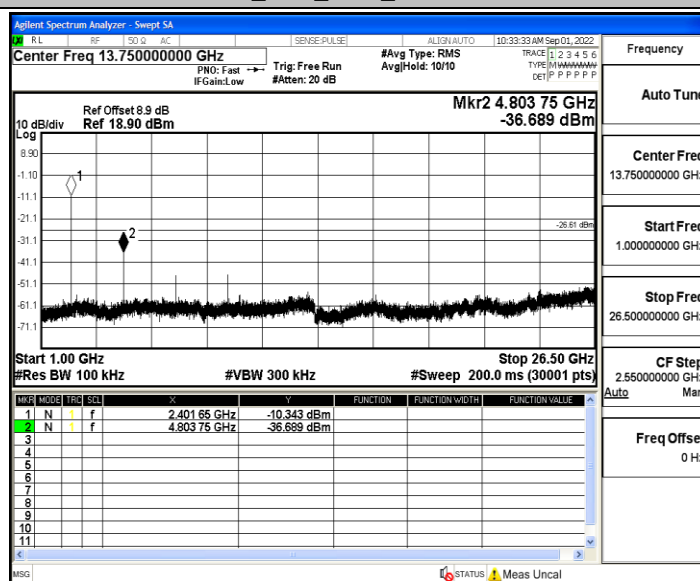
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference