

RF Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: Smart watches****Trade Mark: W&O****Test Model: X7 PLUS****FCC ID: 2A7G4-X7PLUS****Environmental Conditions**

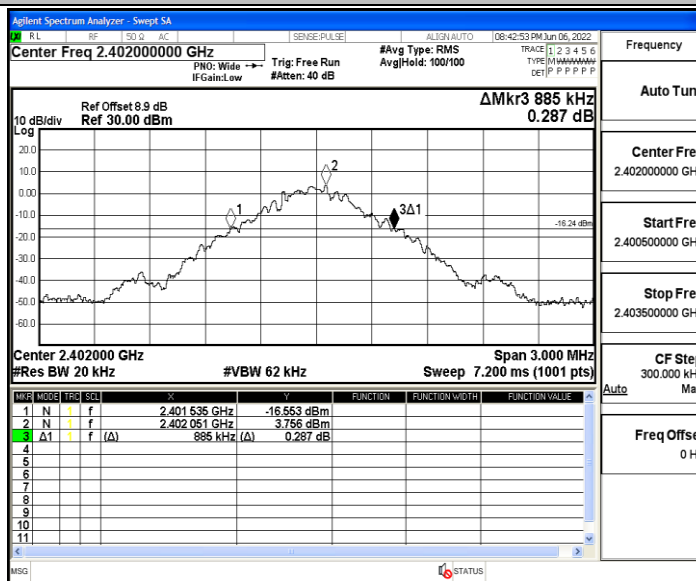
Temperature:	22.8°C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth**Test Result**

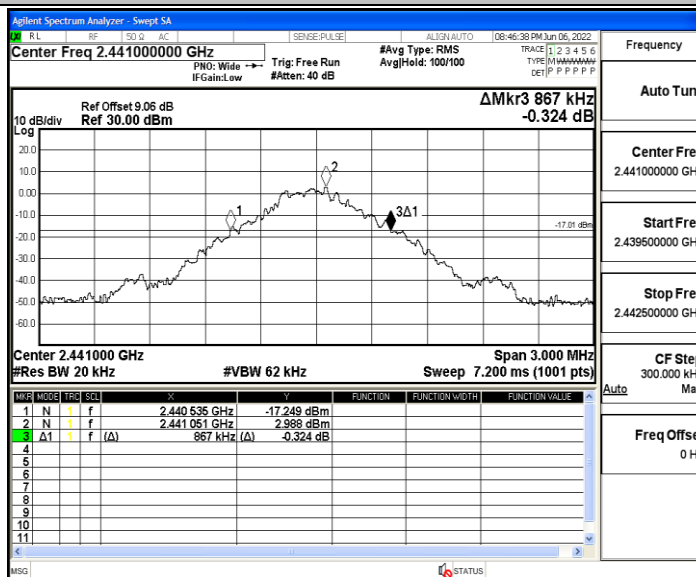
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.885	2401.535	2402.420	---	---
		2441	0.867	2440.535	2441.402	---	---
		2480	0.891	2479.535	2480.426	---	---
2DH5	Ant1	2402	1.317	2401.334	2402.651	---	---
		2441	1.290	2440.361	2441.651	---	---
		2480	1.326	2479.331	2480.657	---	---
3DH5	Ant1	2402	1.275	2401.346	2402.621	---	---
		2441	1.296	2440.349	2441.645	---	---
		2480	1.266	2479.352	2480.618	---	---

Test Graphs

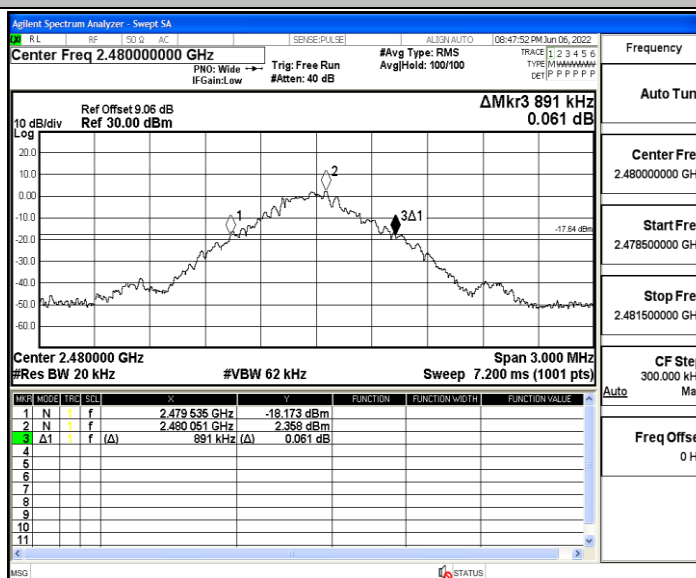
DH5_Ant1_2402



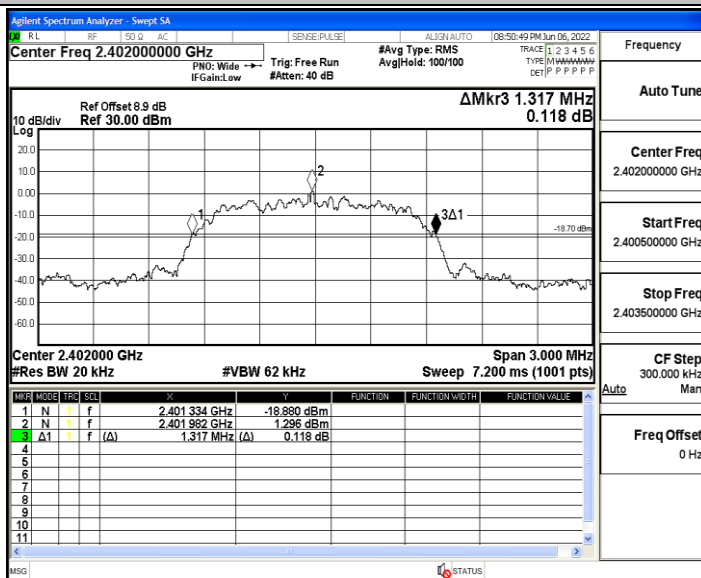
DH5_Ant1_2441



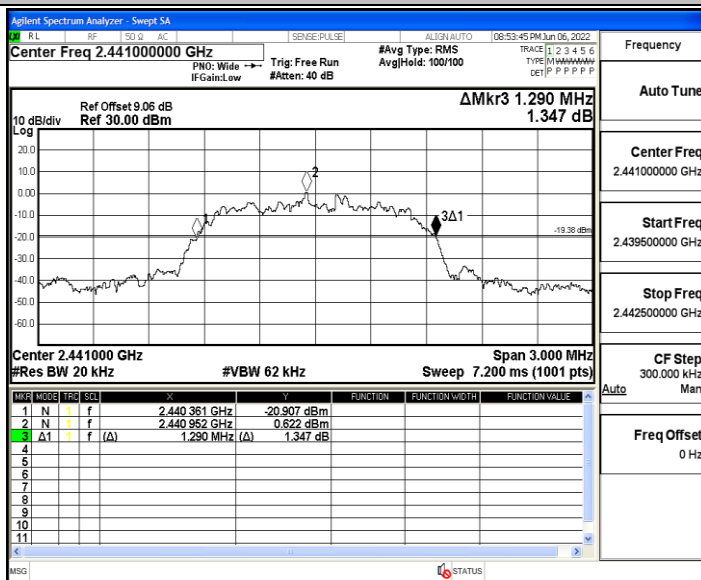
DH5_Ant1_2480



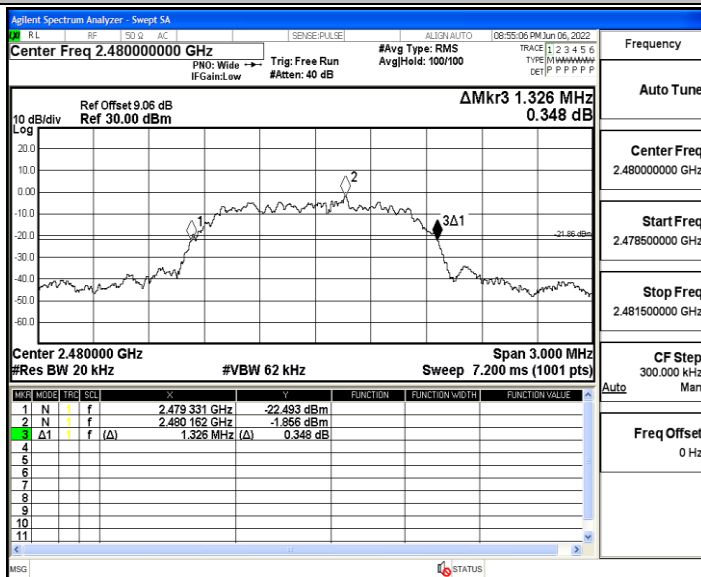
2DH5_Ant1_2402



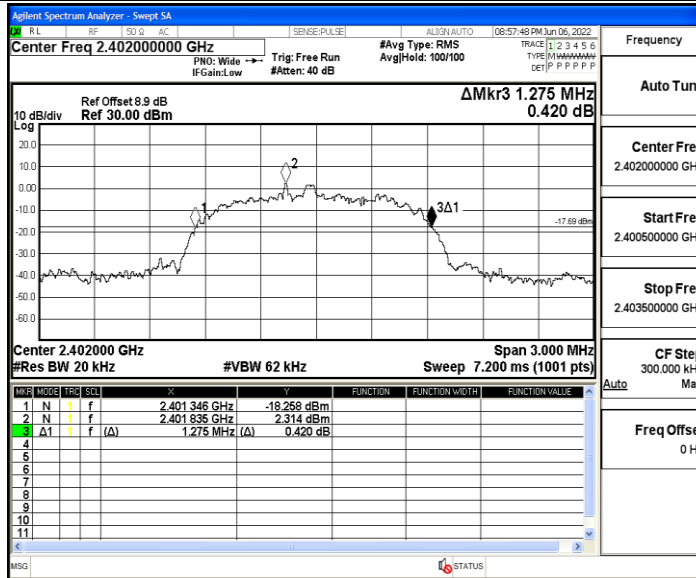
2DH5_Ant1_2441



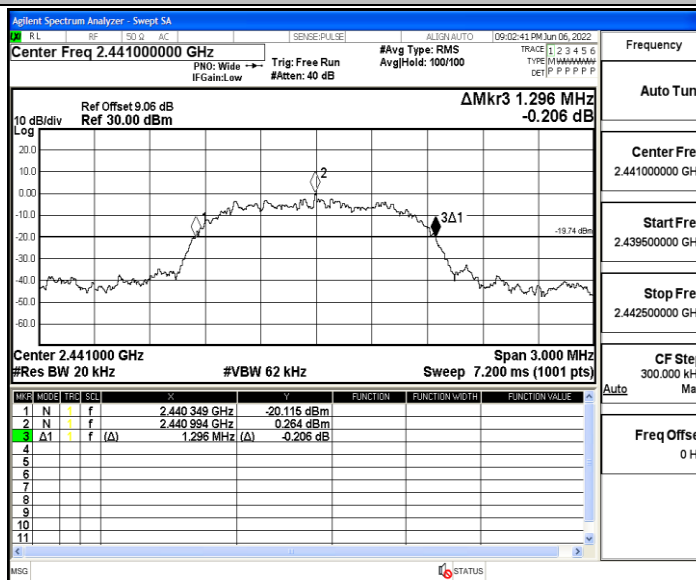
2DH5_Ant1_2480



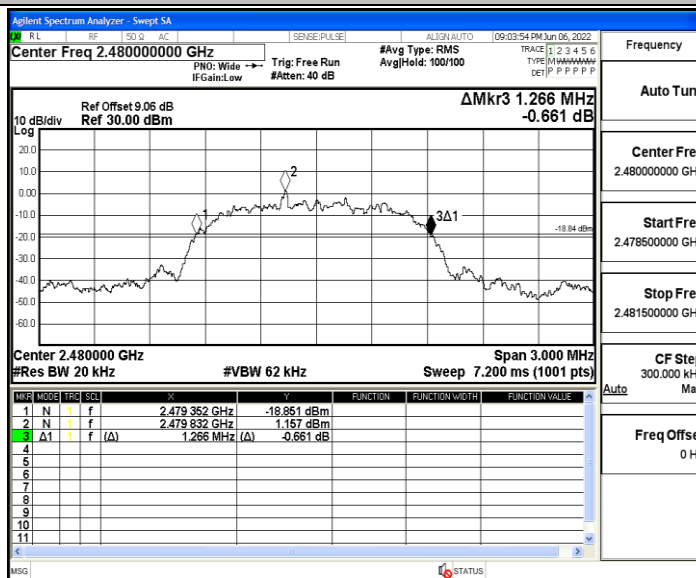
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



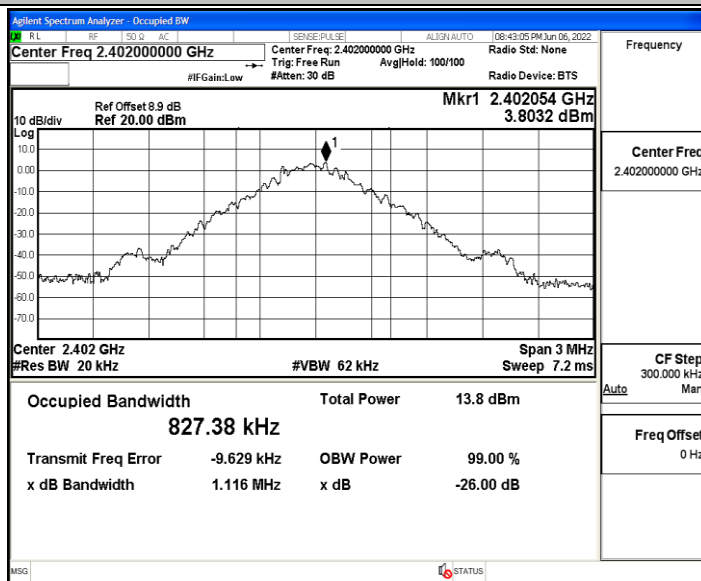
Appendix B: Occupied Channel Bandwidth

Test Result

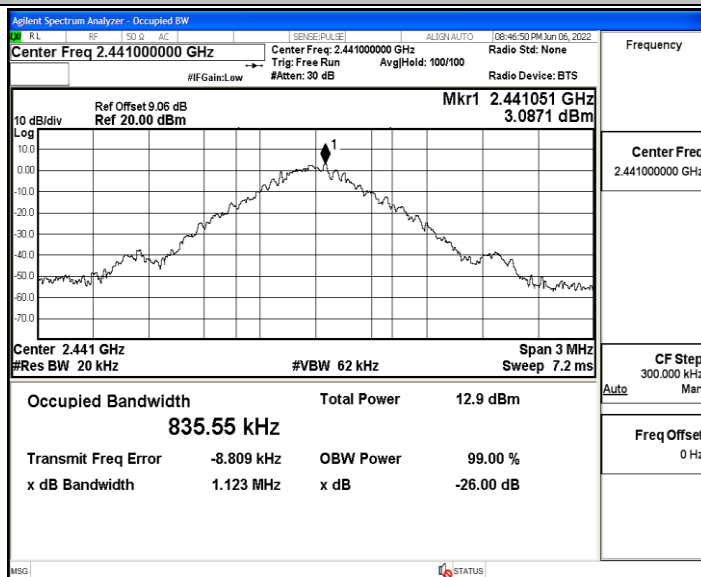
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.82738	2401.577	2402.404	---	---
		2441	0.83555	2440.573	2441.409	---	---
		2480	0.81962	2479.582	2480.402	---	---
2DH5	Ant1	2402	1.1712	2401.406	2402.577	---	---
		2441	1.1616	2440.409	2441.571	---	---
		2480	1.1630	2479.409	2480.572	---	---
3DH5	Ant1	2402	1.1727	2401.405	2402.577	---	---
		2441	1.1706	2440.406	2441.576	---	---
		2480	1.1683	2479.405	2480.573	---	---

Test Graphs

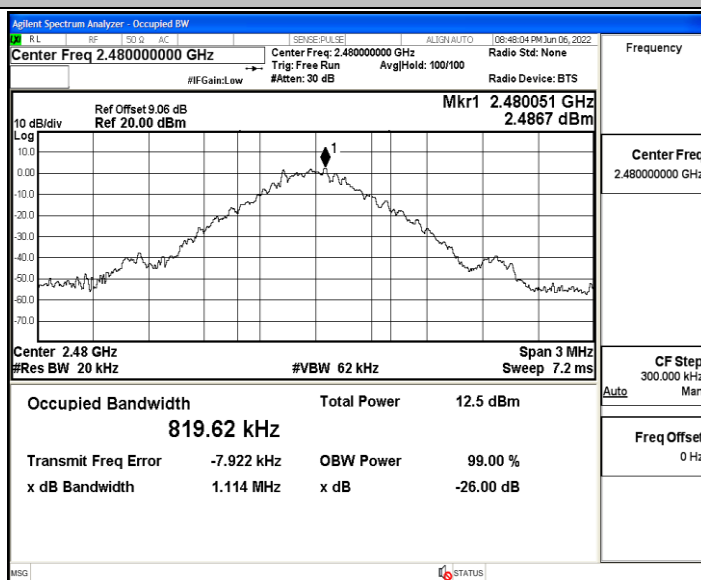
DH5_Ant1_2402



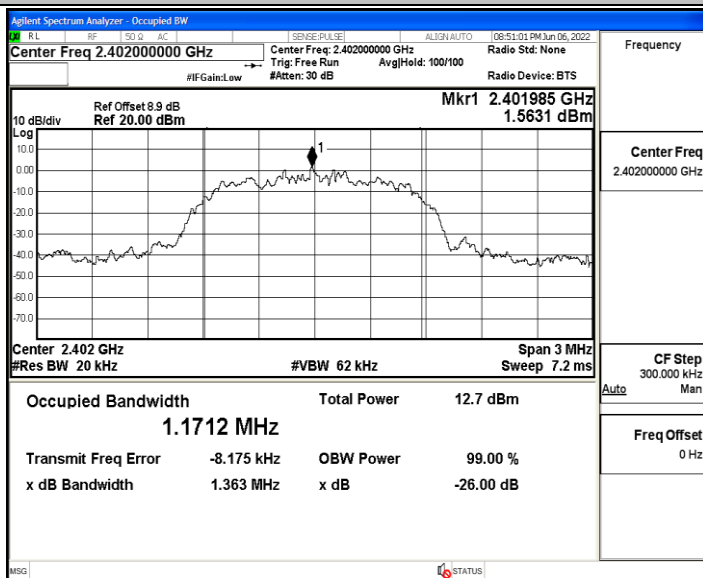
DH5_Ant1_2441



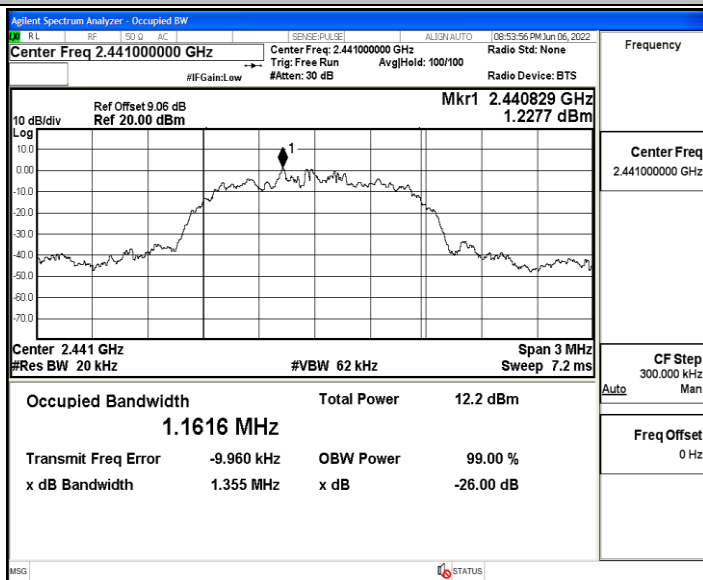
DH5_Ant1_2480



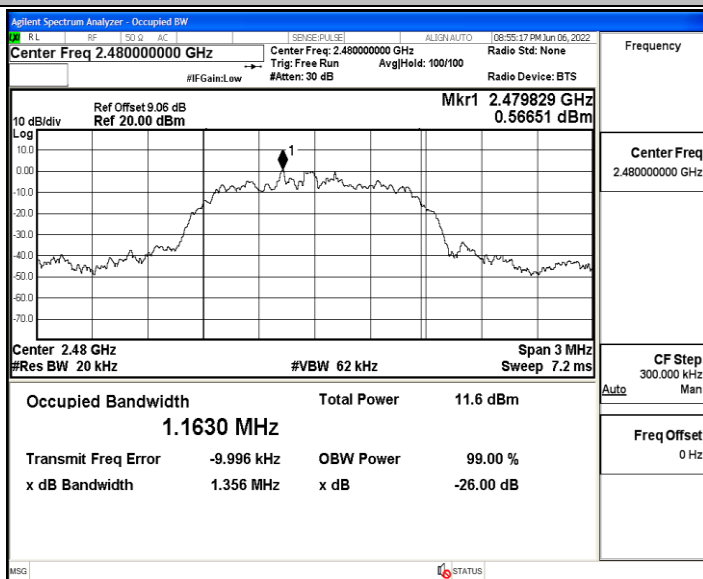
2DH5_Ant1_2402



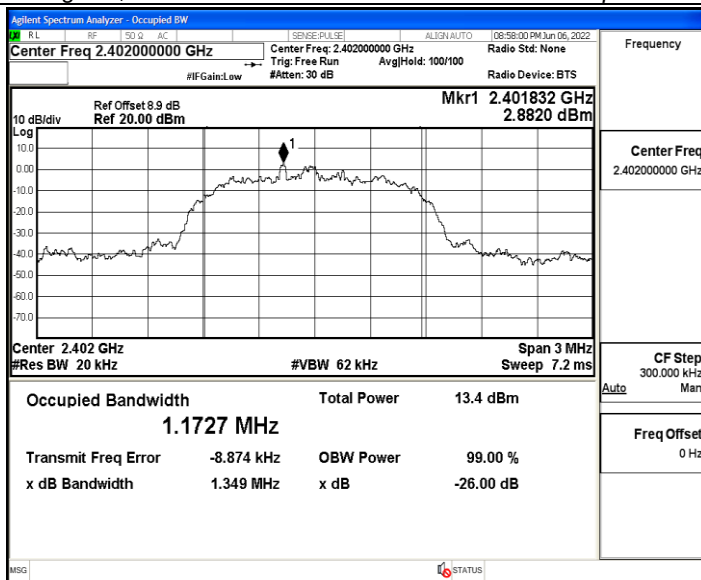
2DH5_Ant1_2441



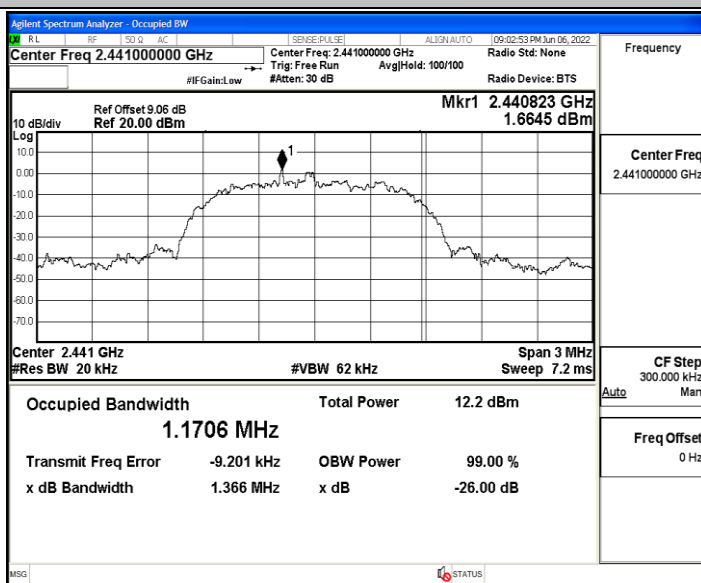
2DH5_Ant1_2480



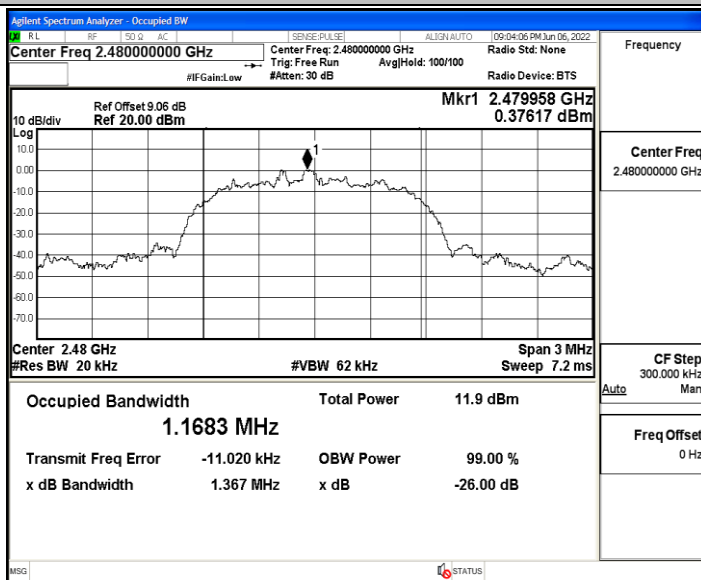
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

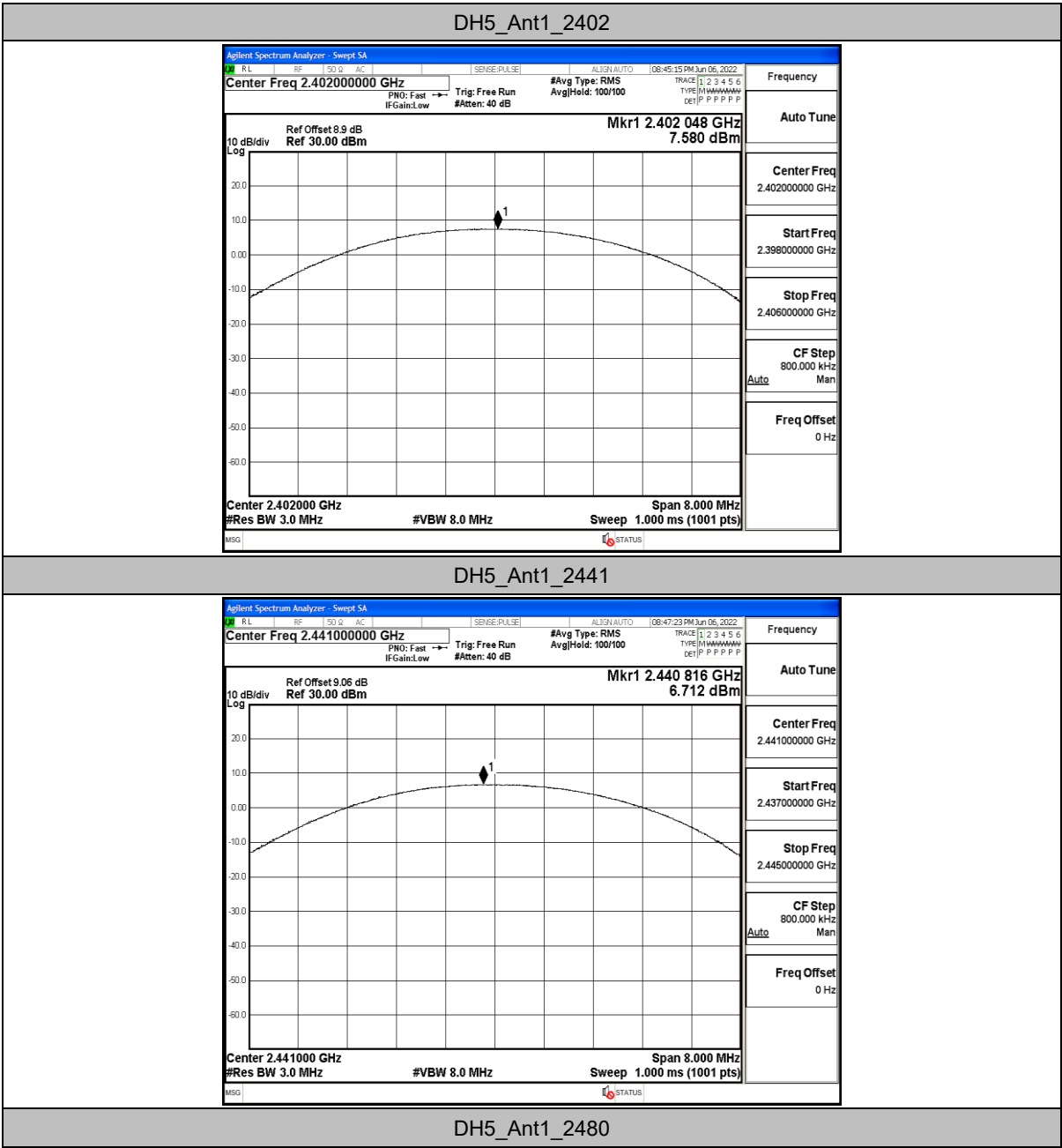


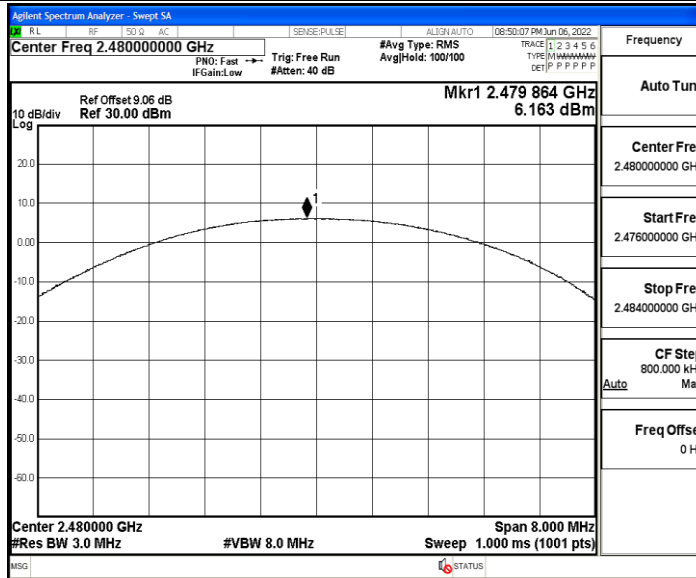
Appendix C: Maximum conducted output power

Test Result

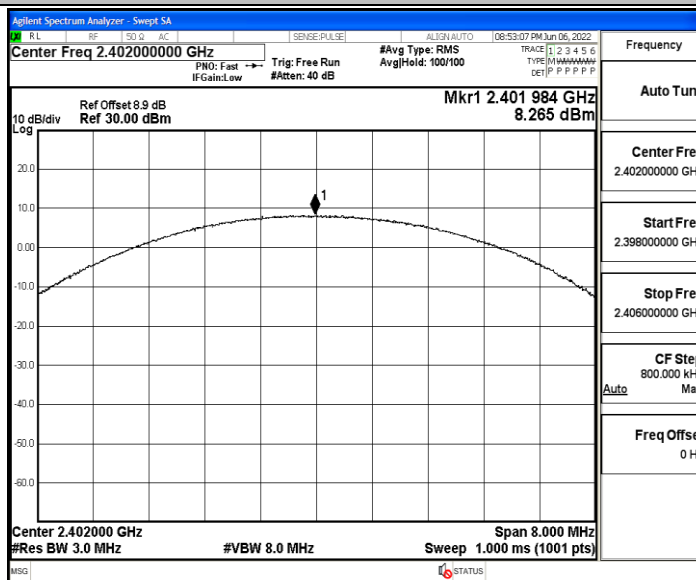
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	7.58	≤30	PASS
		2441	6.71	≤30	PASS
		2480	6.16	≤30	PASS
2DH5	Ant1	2402	8.27	≤20.97	PASS
		2441	7.35	≤20.97	PASS
		2480	6.83	≤20.97	PASS
3DH5	Ant1	2402	8.82	≤20.97	PASS
		2441	8.1	≤20.97	PASS
		2480	7.65	≤20.97	PASS

Test Graphs

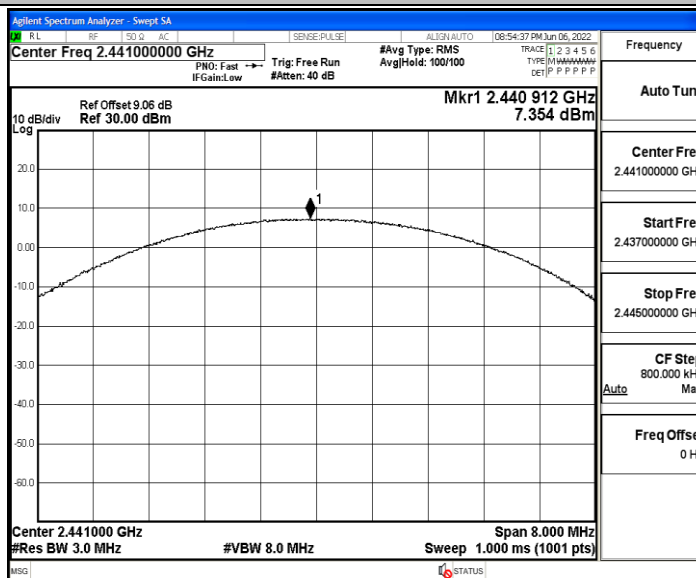




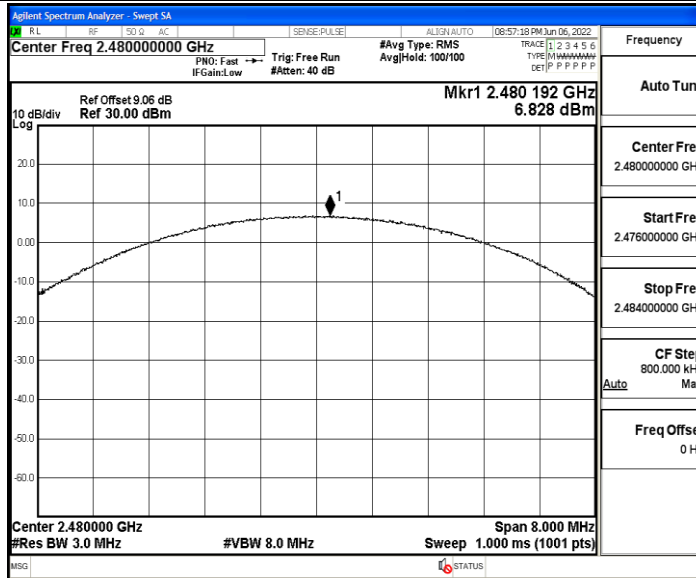
2DH5_Ant1_2402



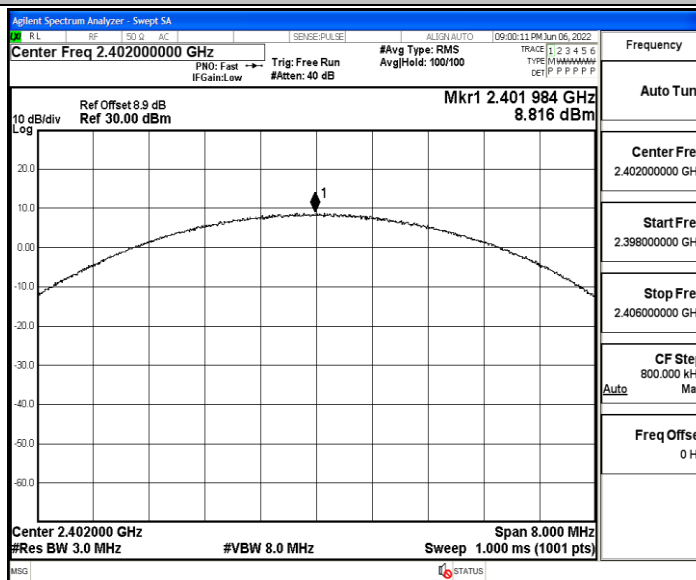
2DH5_Ant1_2441



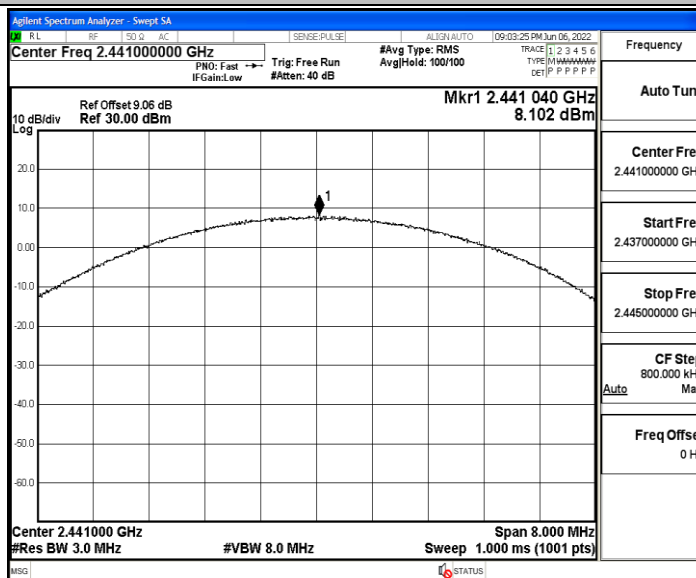
2DH5_Ant1_2480



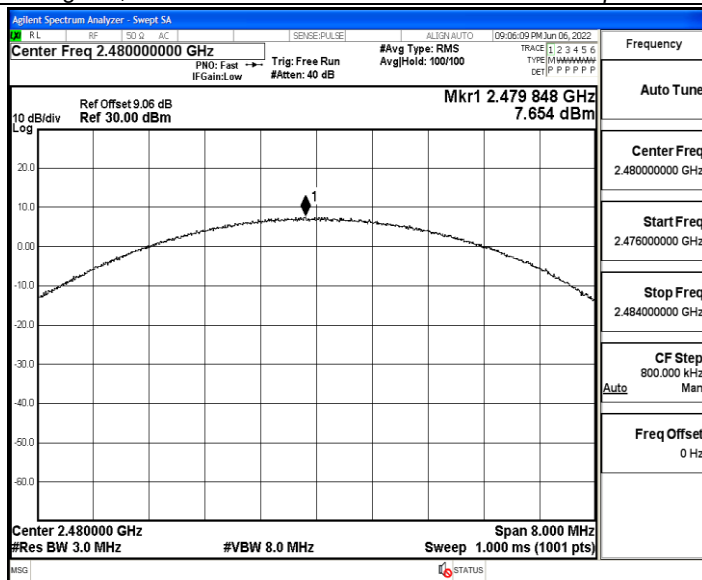
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



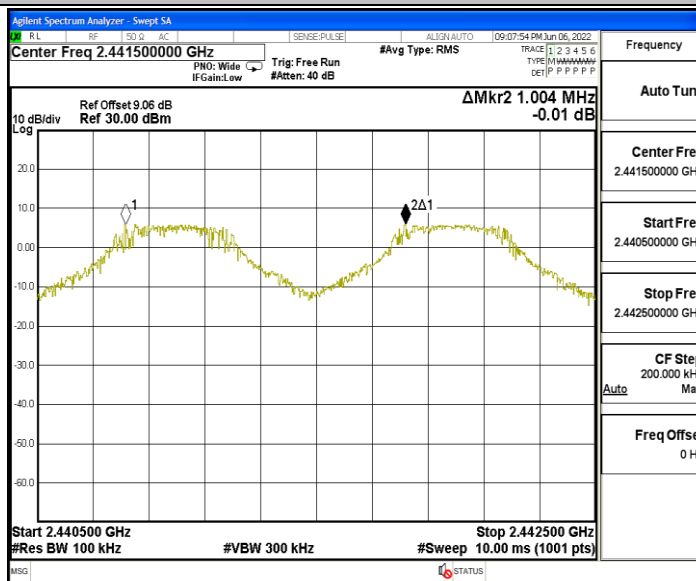
Appendix D: Carrier frequency separation

Test Result

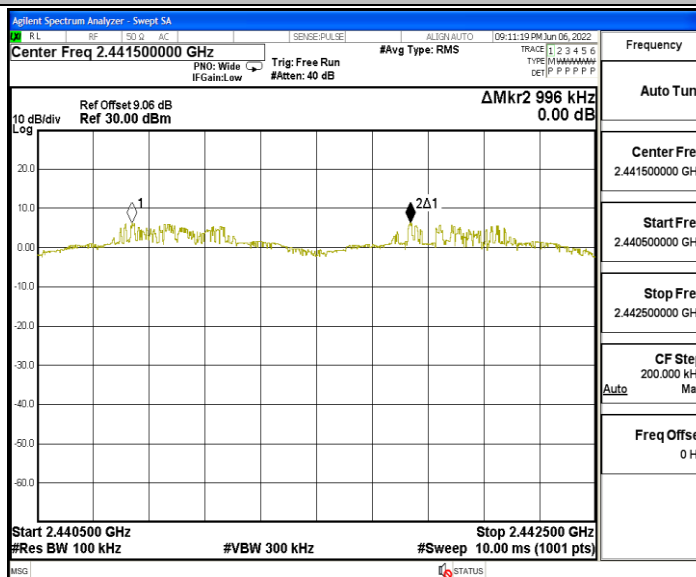
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.891	PASS
2DH5	Ant1	Hop	0.996	≥ 0.884	PASS
3DH5	Ant1	Hop	1.004	≥ 0.864	PASS

Test Graphs

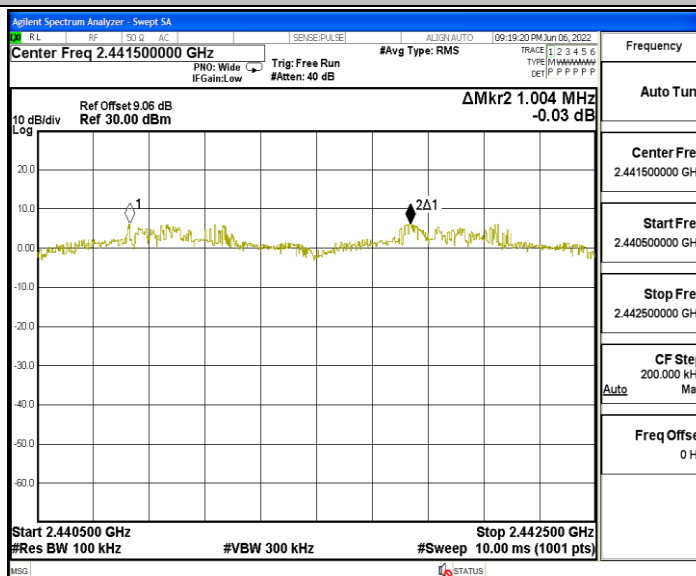
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



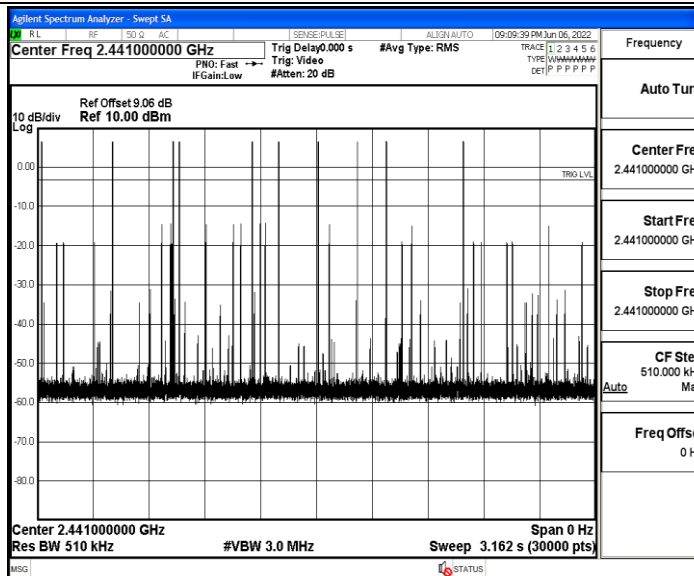
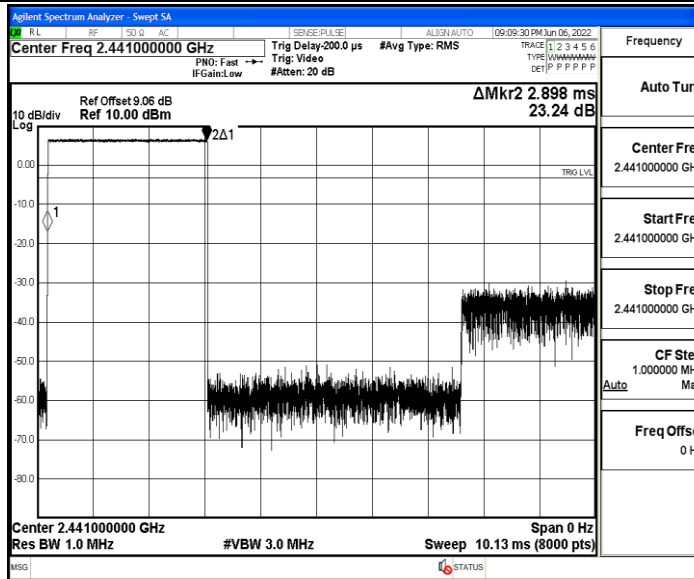
Appendix E: Time of occupancy

Test Result

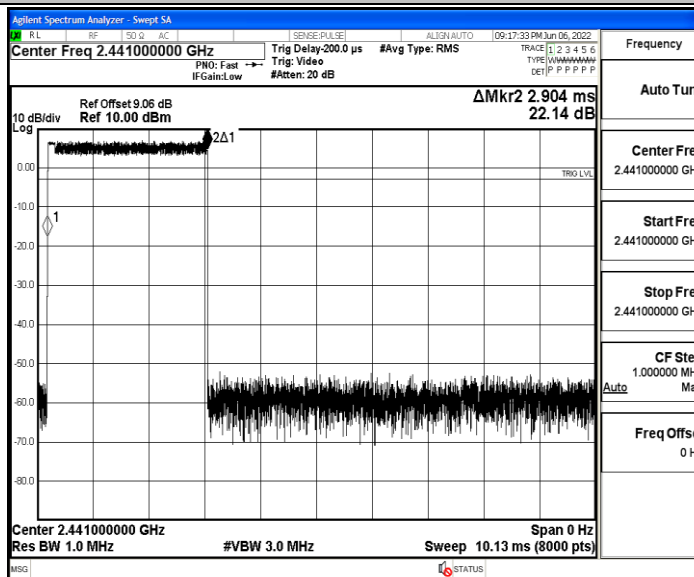
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.90	110	0.319	≤0.4	PASS
2DH5	Ant1	Hop	2.90	110	0.319	≤0.4	PASS
3DH5	Ant1	Hop	2.91	110	0.32	≤0.4	PASS

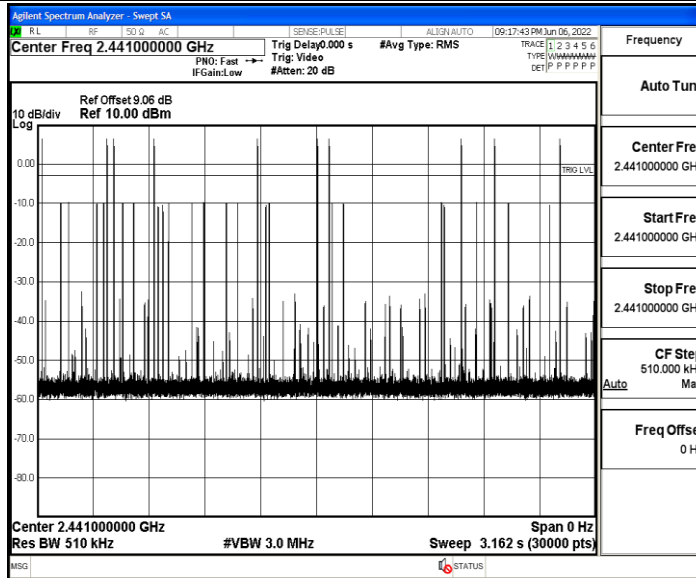
Test Graphs

DH5_Ant1_Hop

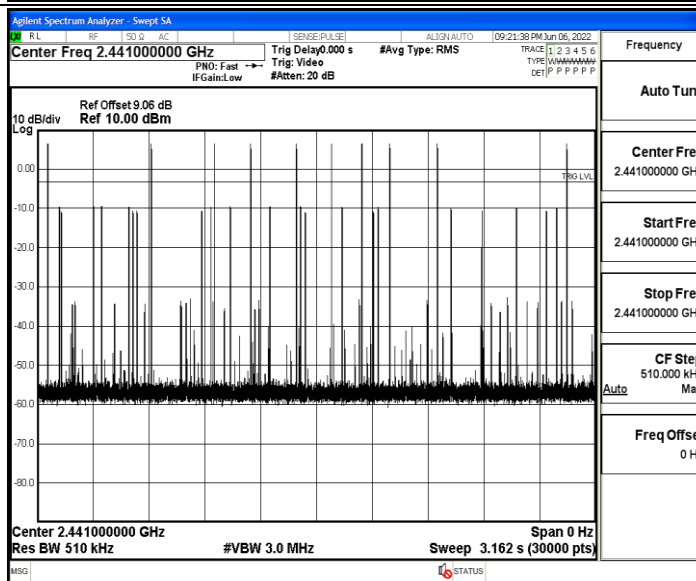
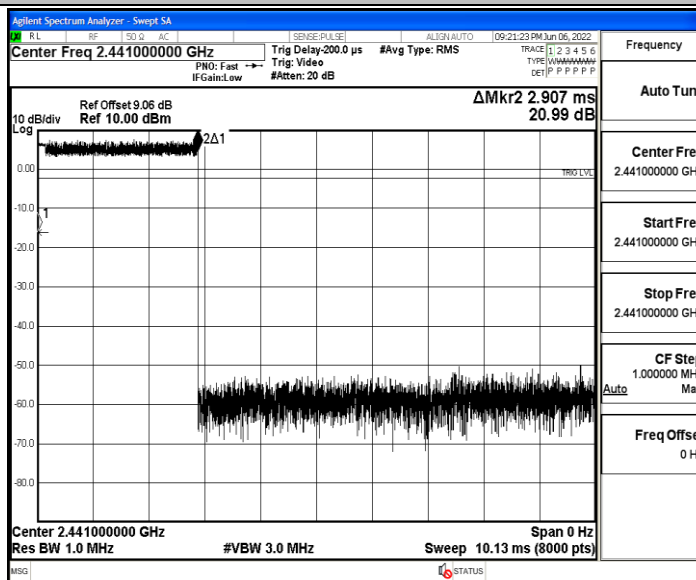


2DH5_Ant1_Hop





3DH5_Ant1_Hop



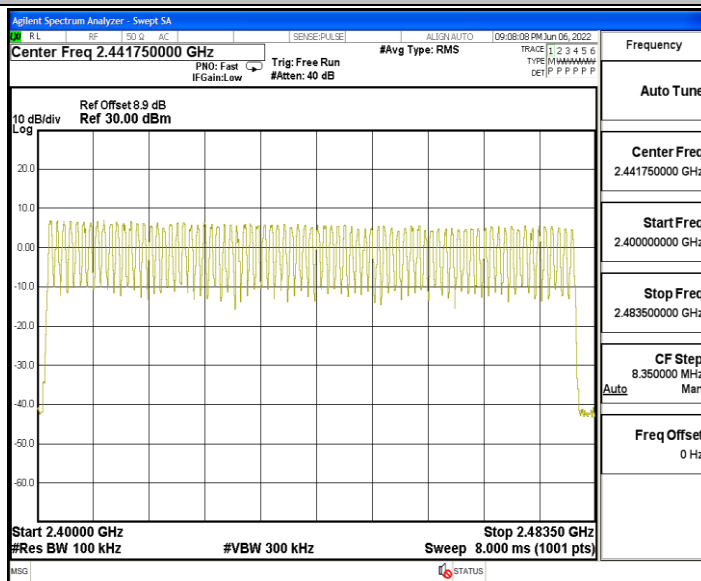
Appendix F: Number of hopping channels

Test Result

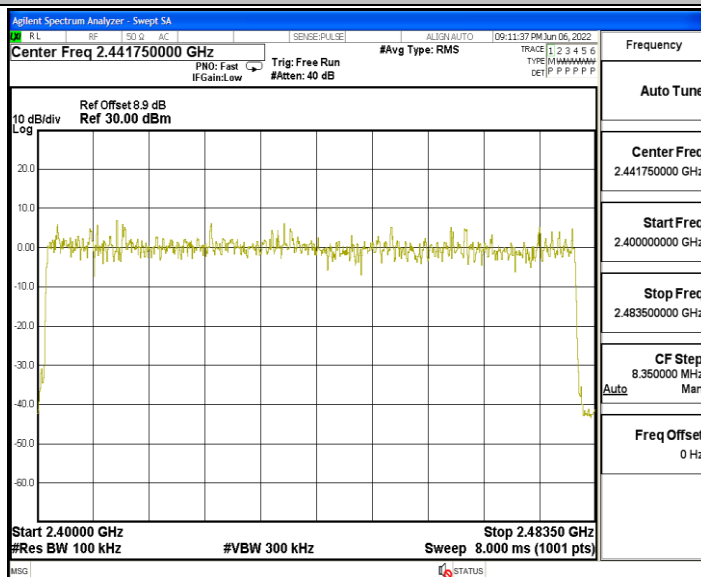
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

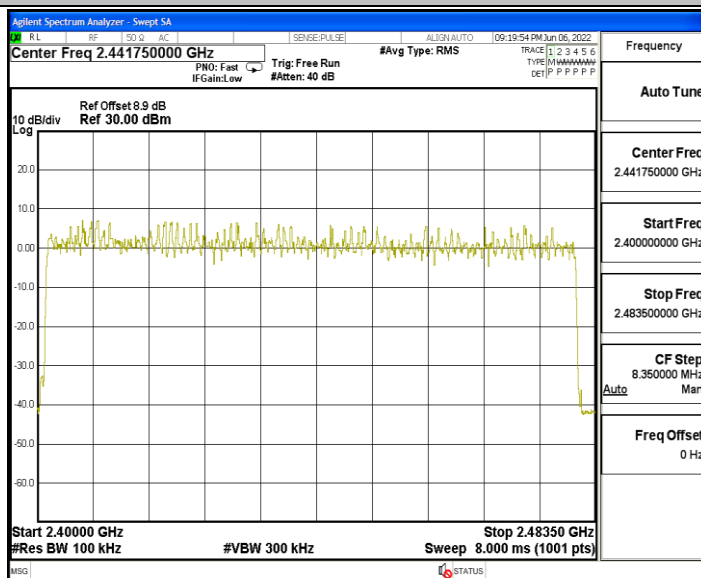
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



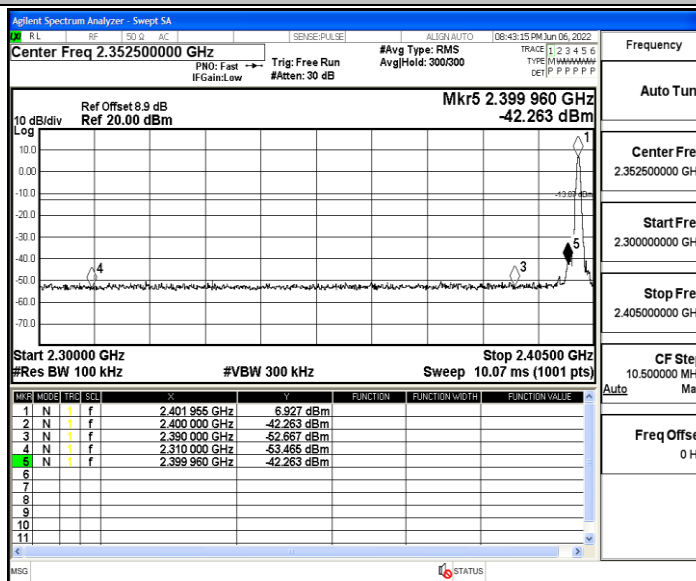
Appendix G: Band edge measurements

Test Result

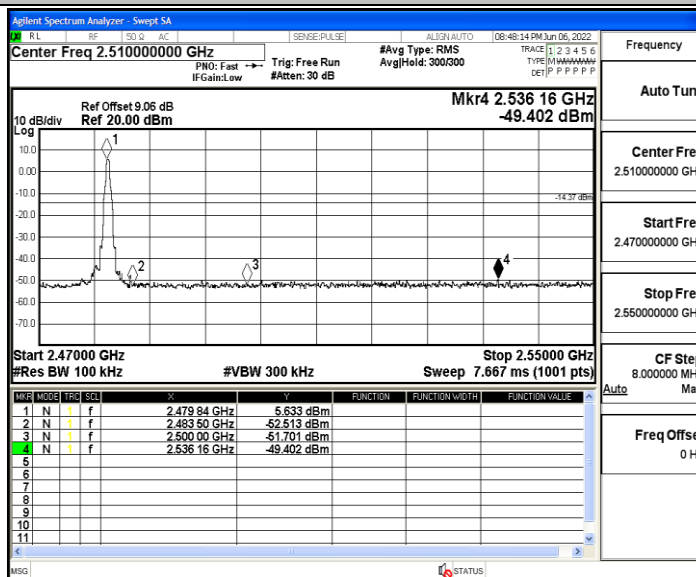
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.93	-42.26	≤ -13.07	PASS
		High	2480	5.63	-49.4	≤ -14.37	PASS
		Low	Hop_2402	6.47	-49.92	≤ -13.53	PASS
		High	Hop_2480	5.78	-49.12	≤ -14.22	PASS
2DH5	Ant1	Low	2402	7.13	-42.52	≤ -12.87	PASS
		High	2480	5.52	-49.02	≤ -14.49	PASS
		Low	Hop_2402	1.39	-50.09	≤ -18.61	PASS
		High	Hop_2480	5.73	-49.42	≤ -14.27	PASS
3DH5	Ant1	Low	2402	6.39	-41.29	≤ -13.61	PASS
		High	2480	4.00	-49.97	≤ -16	PASS
		Low	Hop_2402	2.95	-50.68	≤ -17.05	PASS
		High	Hop_2480	3.45	-49.28	≤ -16.56	PASS

Test Graphs

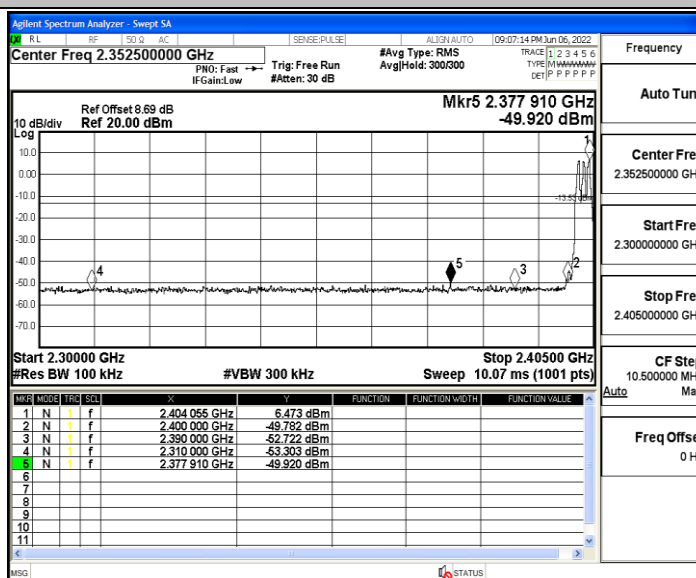
DH5_Ant1_Low_2402



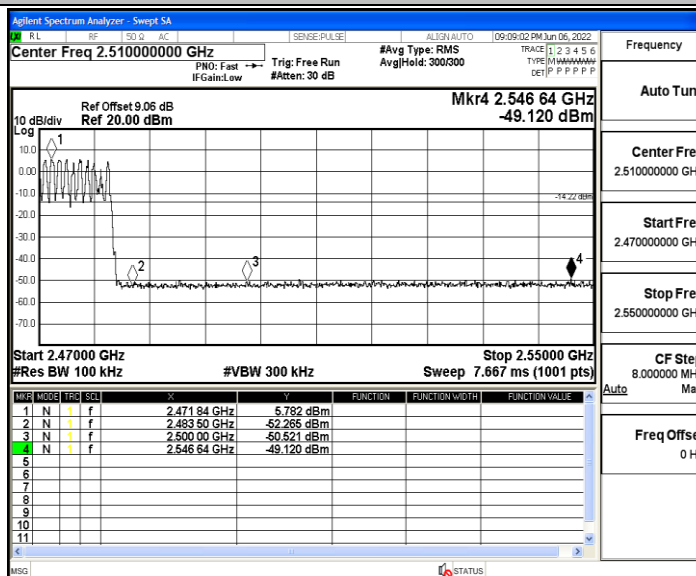
DH5_Ant1_High_2480



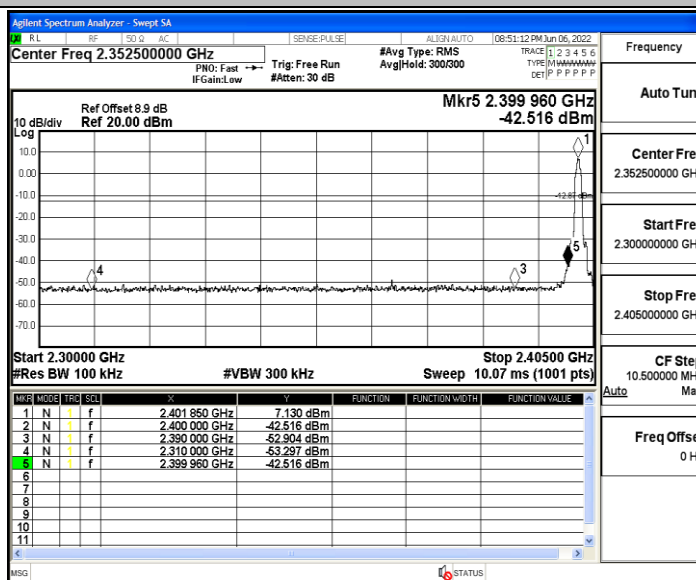
DH5_Ant1_Low_Hop_2402



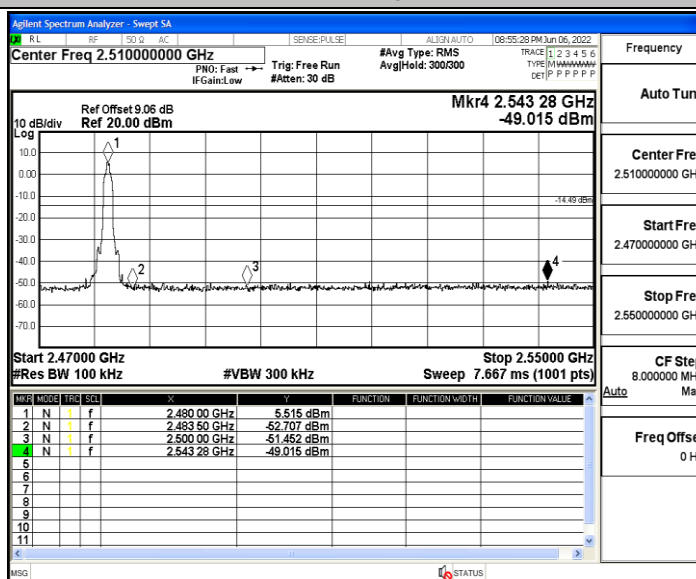
DH5_Ant1_High_Hop_2480



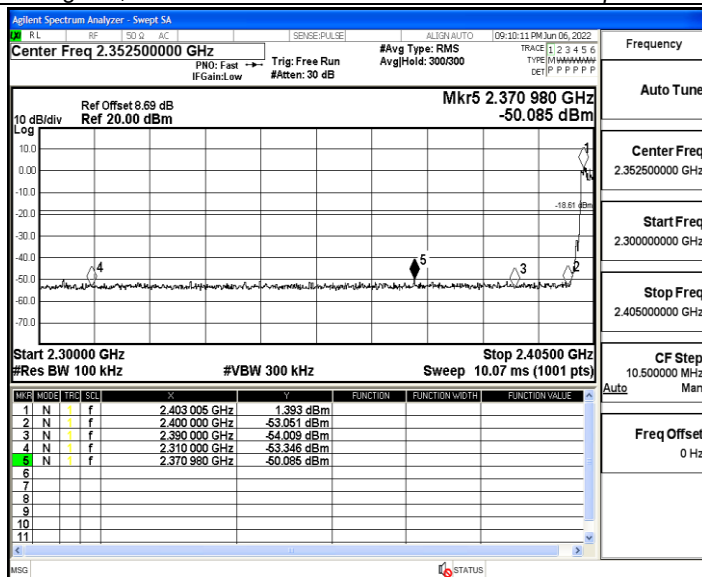
2DH5_Ant1_Low_2402



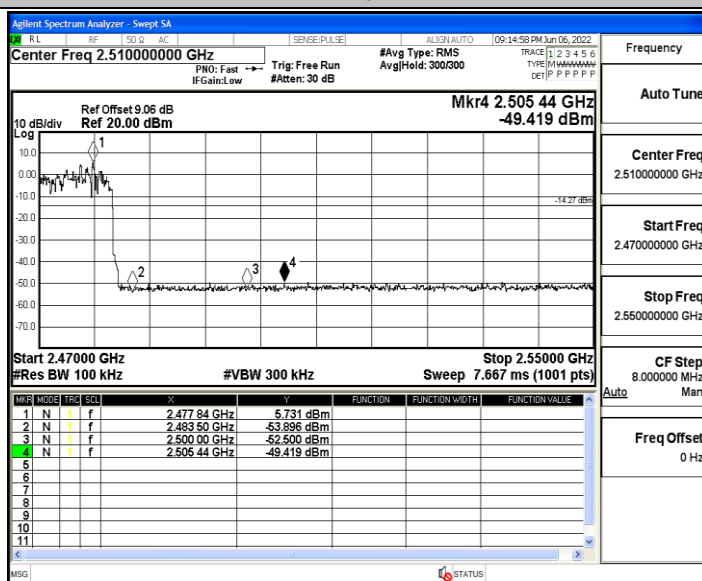
2DH5_Ant1_High_2480



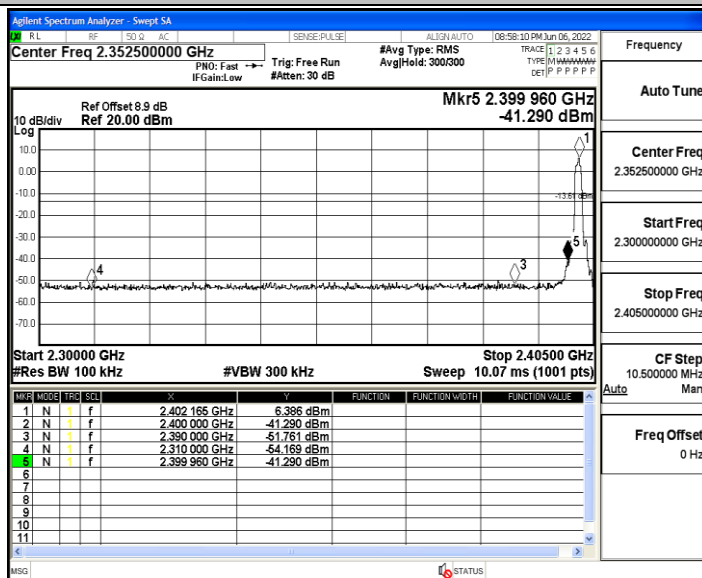
2DH5_Ant1_Low_Hop_2402



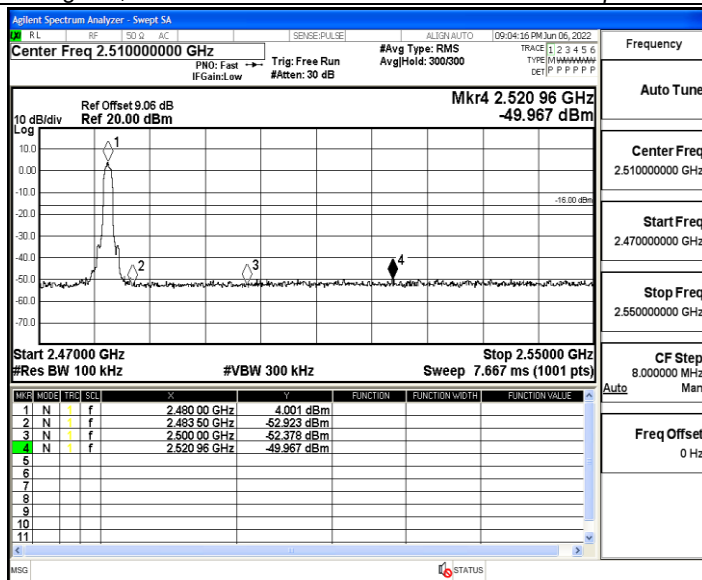
2DH5_Ant1_High_Hop_2480



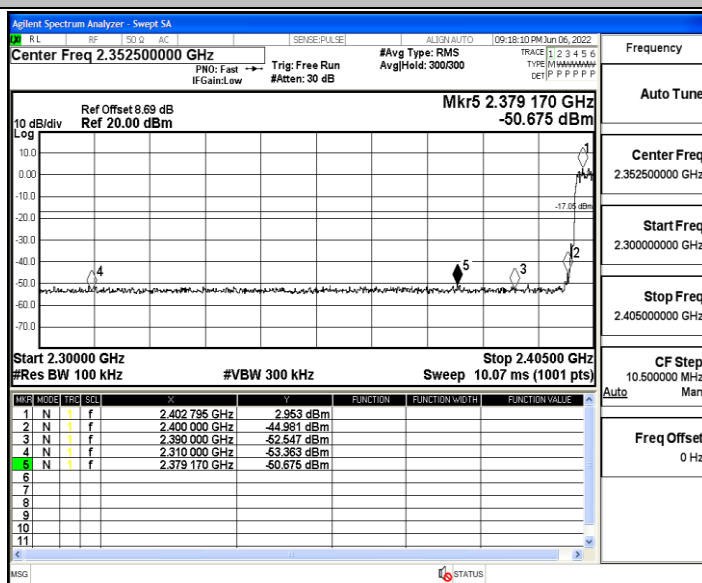
3DH5_Ant1_Low_2402



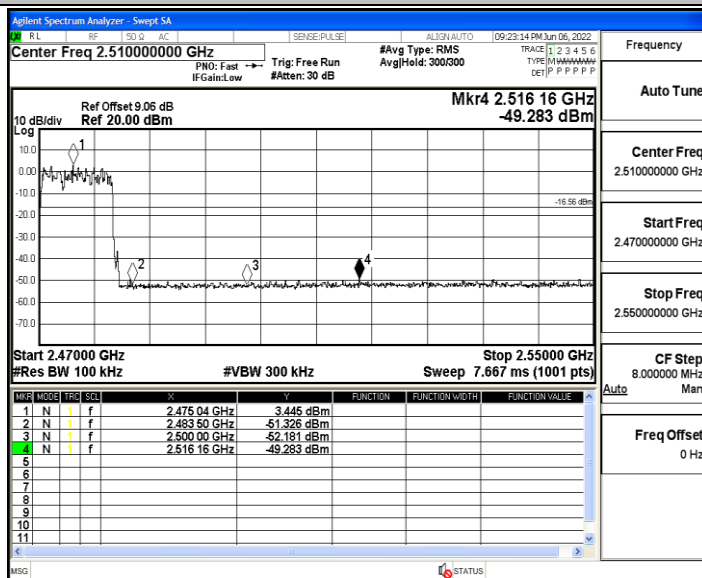
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



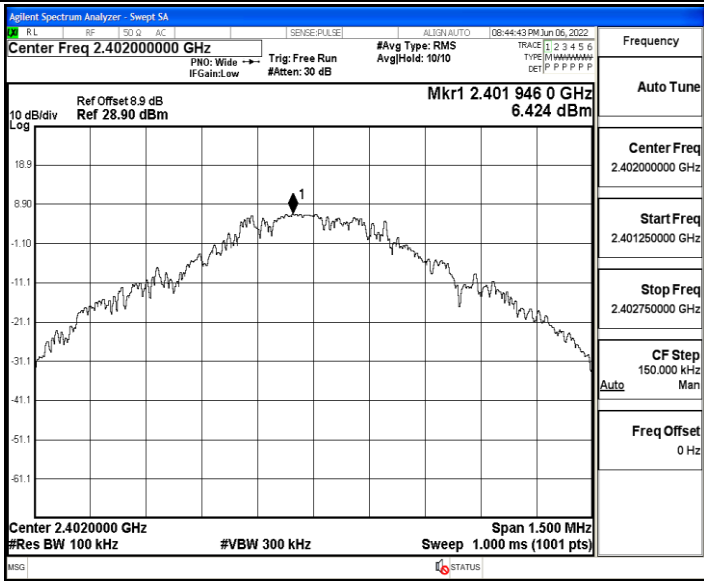
Appendix H: Conducted Spurious Emission

Test Result

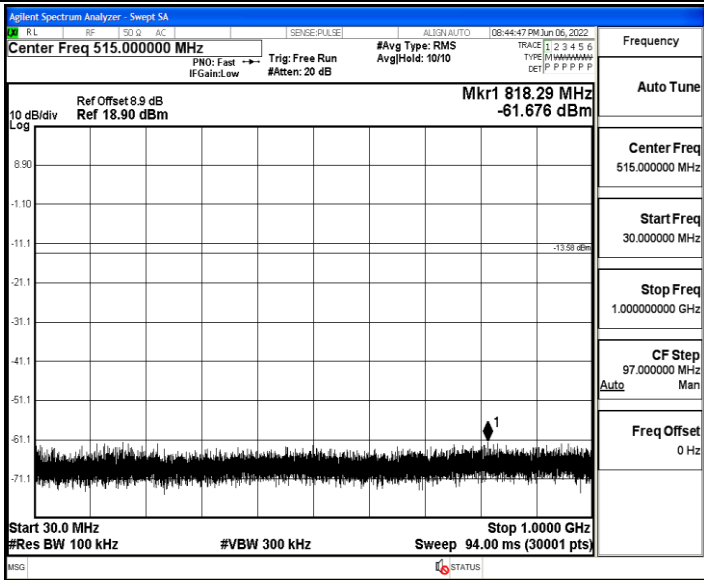
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	6.42	6.42	---	PASS
			30~1000	6.42	-61.68	≤ -13.58	PASS
			1000~26500	6.42	-37.41	≤ -13.58	PASS
		2441	Reference	5.64	5.64	---	PASS
			30~1000	5.64	-60.96	≤ -14.36	PASS
			1000~26500	5.64	-36.79	≤ -14.36	PASS
		2480	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-61.35	≤ -14.8	PASS
			1000~26500	5.20	-34.16	≤ -14.8	PASS
2DH5	Ant1	2402	Reference	5.41	5.41	---	PASS
			30~1000	5.41	-61.61	≤ -14.59	PASS
			1000~26500	5.41	-41.21	≤ -14.59	PASS
		2441	Reference	5.52	5.52	---	PASS
			30~1000	5.52	-61.66	≤ -14.48	PASS
			1000~26500	5.52	-41.5	≤ -14.48	PASS
		2480	Reference	4.97	4.97	---	PASS
			30~1000	4.97	-61.48	≤ -15.03	PASS
			1000~26500	4.97	-39.49	≤ -15.03	PASS
3DH5	Ant1	2402	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-61	≤ -17.26	PASS
			1000~26500	2.74	-39.05	≤ -17.26	PASS
		2441	Reference	5.97	5.97	---	PASS
			30~1000	5.97	-60.73	≤ -14.03	PASS
			1000~26500	5.97	-40.34	≤ -14.03	PASS
		2480	Reference	4.32	4.32	---	PASS
			30~1000	4.32	-60.75	≤ -15.68	PASS
			1000~26500	4.32	-41.18	≤ -15.68	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

