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

Product Name: Bone Conduction Headphones

Trade Mark: Qaekie

Test Model: Q10

FCC ID: 2BCR3-Q10

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

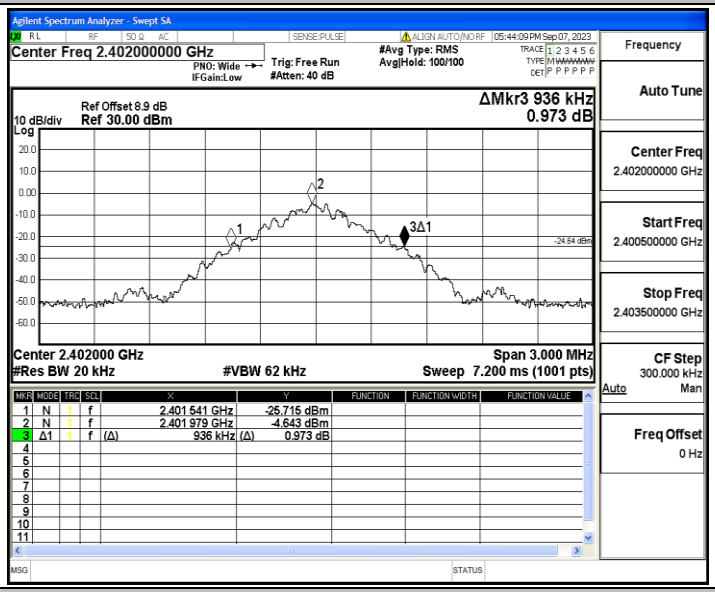
Appendix A: 20dB Emission Bandwidth

Test Result

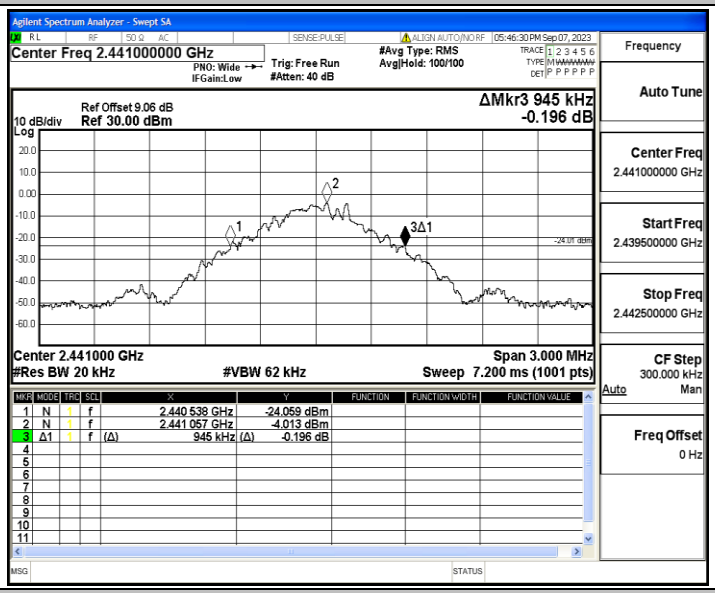
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.936	2401.541	2402.477	---	---
		2441	0.945	2440.538	2441.483	---	---
		2480	0.948	2479.535	2480.483	---	---
2DH5	Ant1	2402	1.335	2401.334	2402.669	---	---
		2441	1.311	2440.343	2441.654	---	---
		2480	1.323	2479.340	2480.663	---	---
3DH5	Ant1	2402	1.269	2401.361	2402.630	---	---
		2441	1.275	2440.349	2441.624	---	---
		2480	1.335	2479.325	2480.660	---	---

Test Graphs

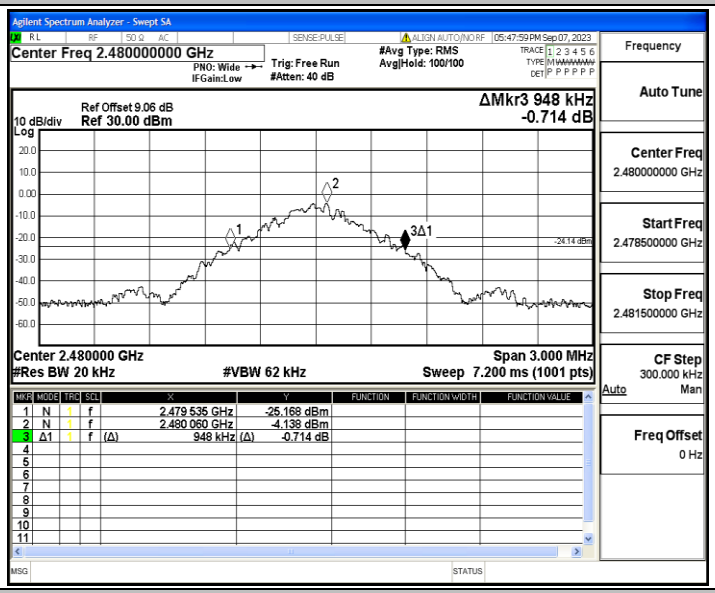
DH5_Ant1_2402



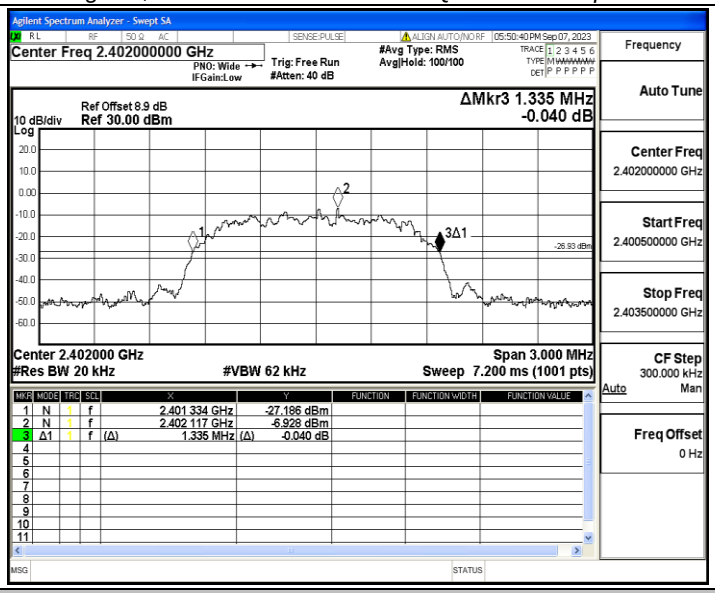
DH5_Ant1_2441



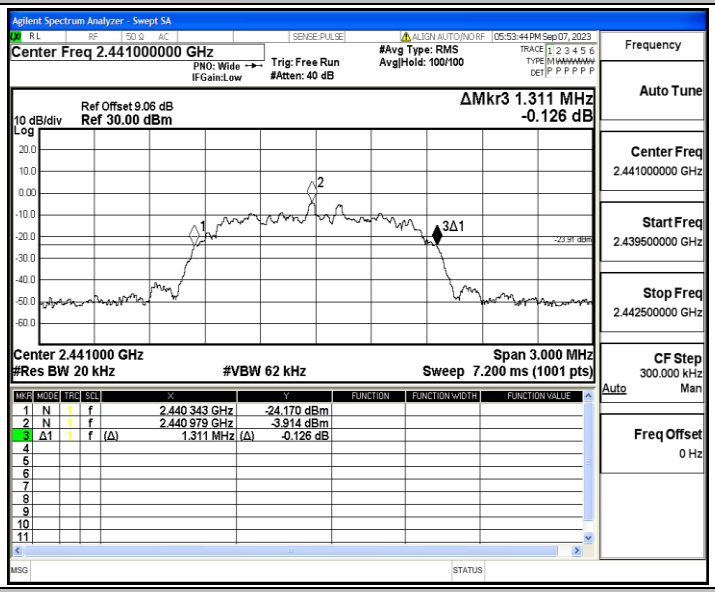
DH5_Ant1_2480



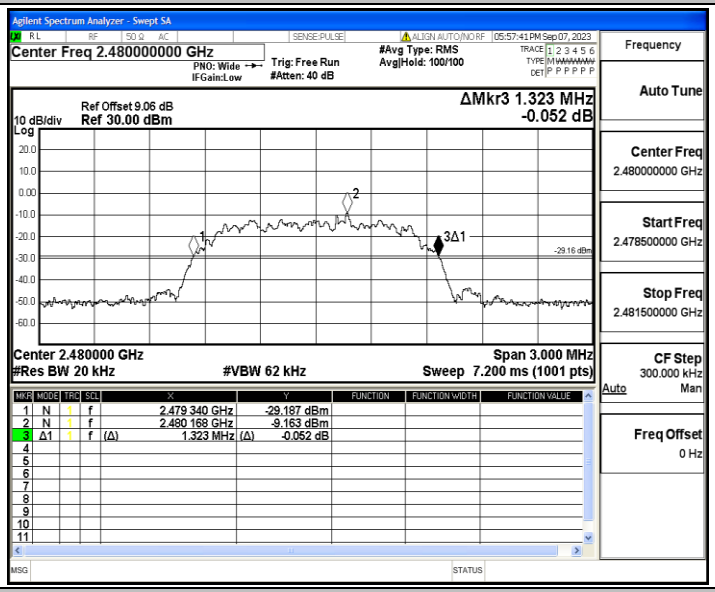
2DH5_Ant1_2402



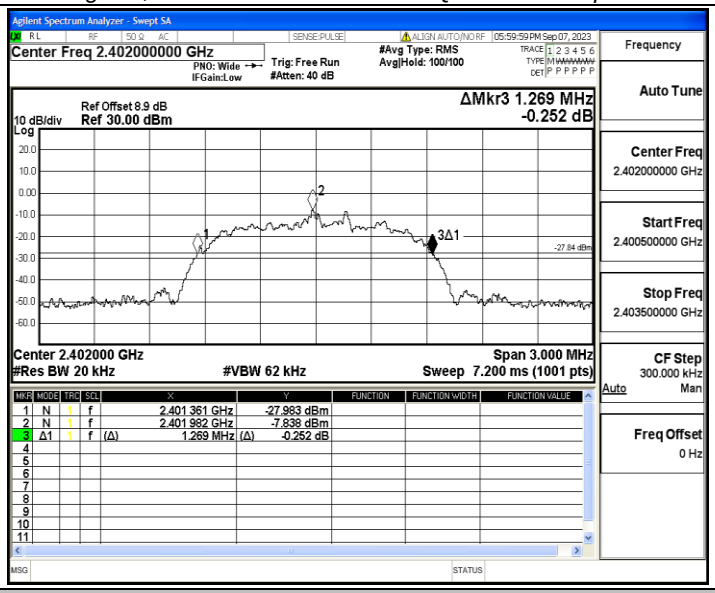
2DH5_Ant1_2441



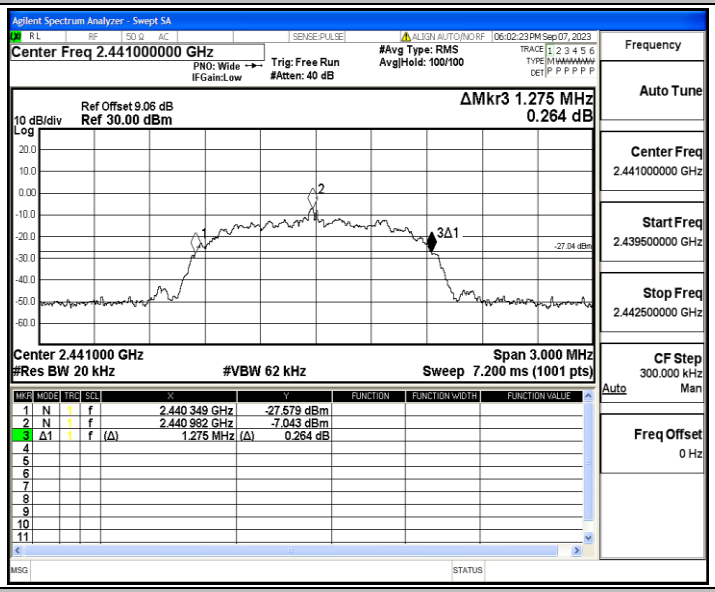
2DH5_Ant1_2480



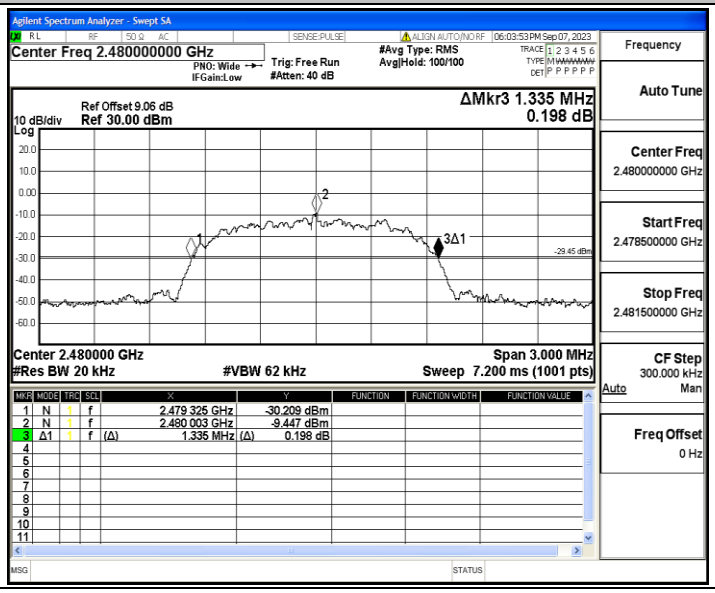
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



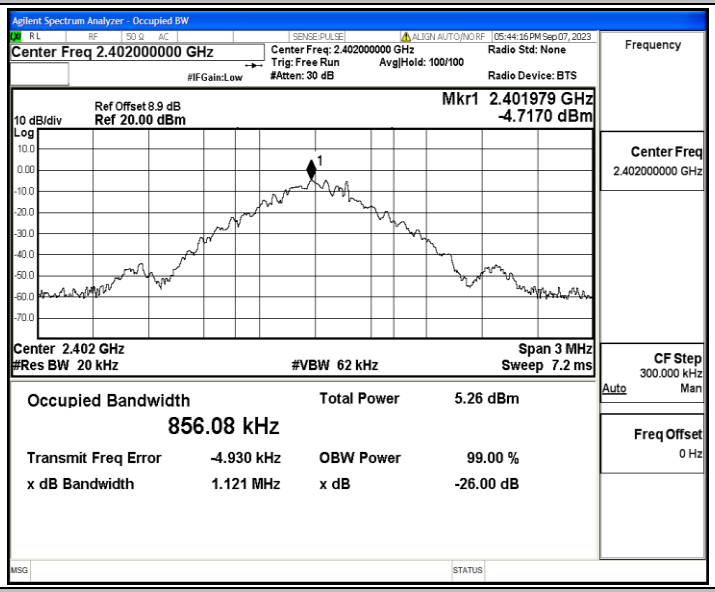
Appendix B: Occupied Channel Bandwidth

Test Result

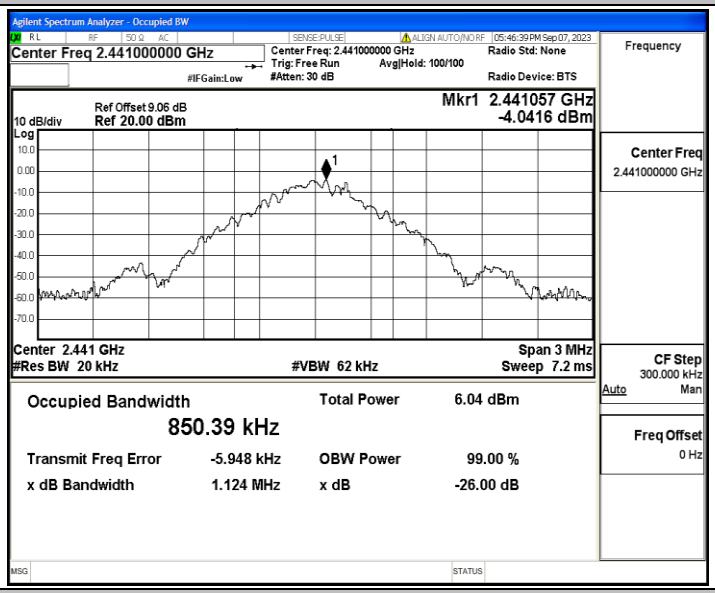
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85608	2401.5670	2402.4231	---	---
		2441	0.85039	2440.5689	2441.4192	---	---
		2480	0.85249	2479.5675	2480.4200	---	---
2DH5	Ant1	2402	1.1760	2401.4091	2402.5851	---	---
		2441	1.1792	2440.4076	2441.5868	---	---
		2480	1.1763	2479.4086	2480.5849	---	---
3DH5	Ant1	2402	1.1829	2401.3994	2402.5823	---	---
		2441	1.1886	2440.3960	2441.5846	---	---
		2480	1.1717	2479.4105	2480.5822	---	---

Test Graphs

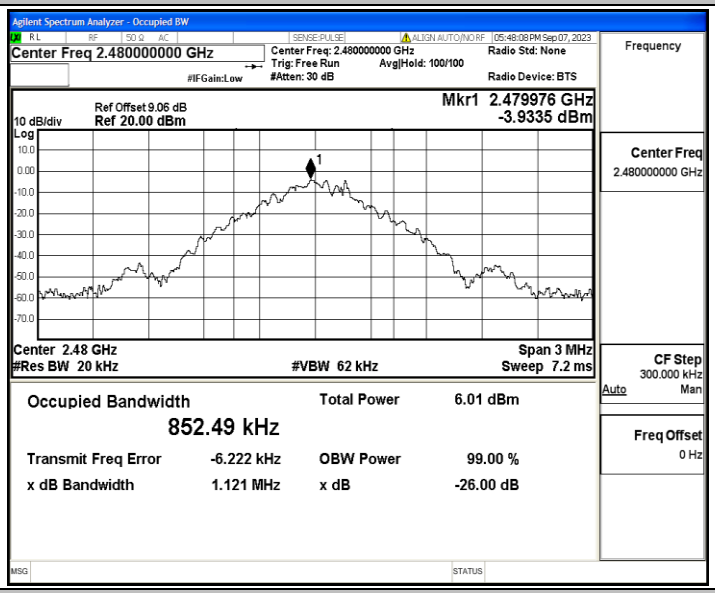
DH5_Ant1_2402



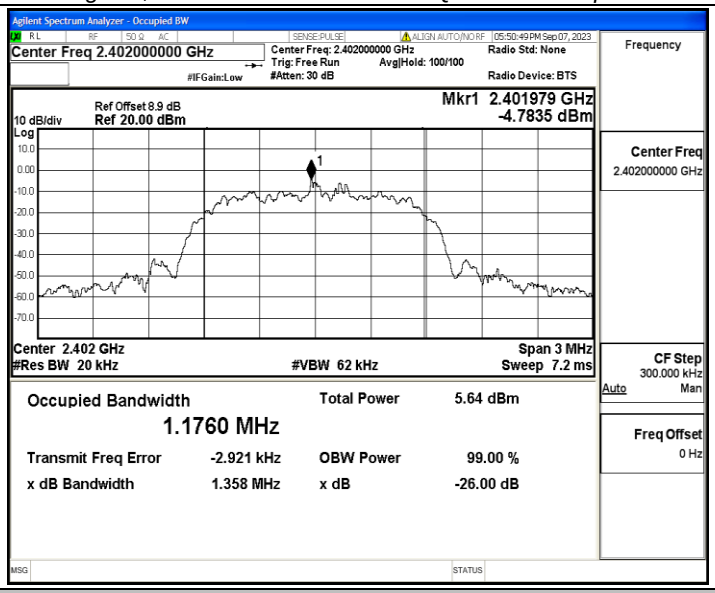
DH5_Ant1_2441



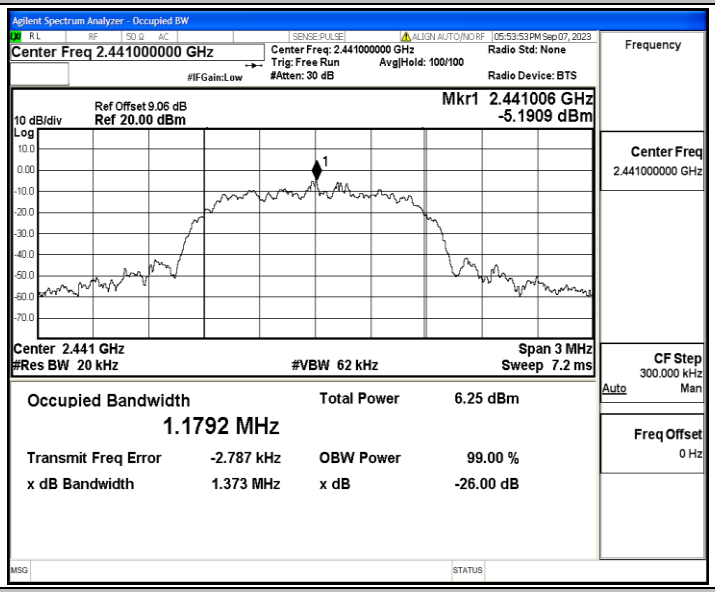
DH5_Ant1_2480



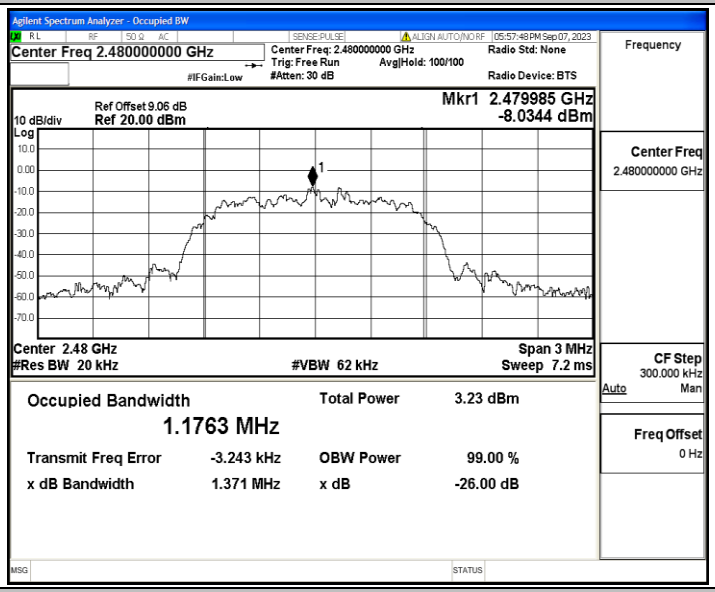
2DH5_Ant1_2402



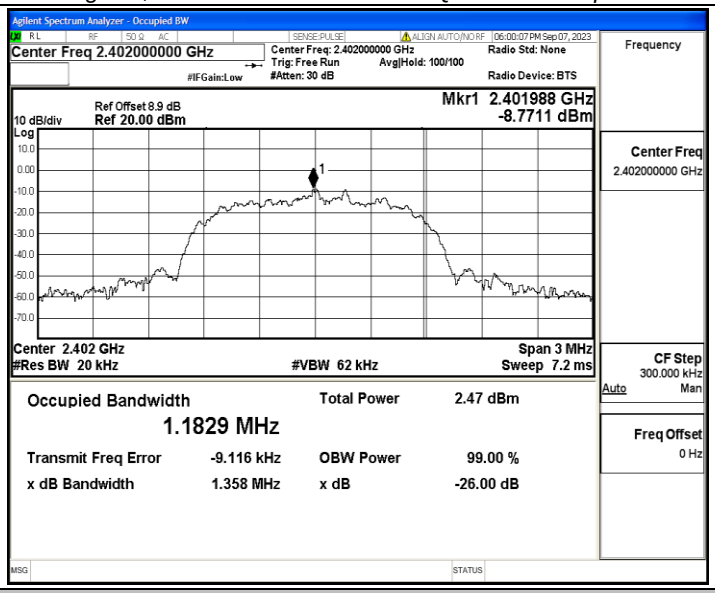
2DH5_Ant1_2441



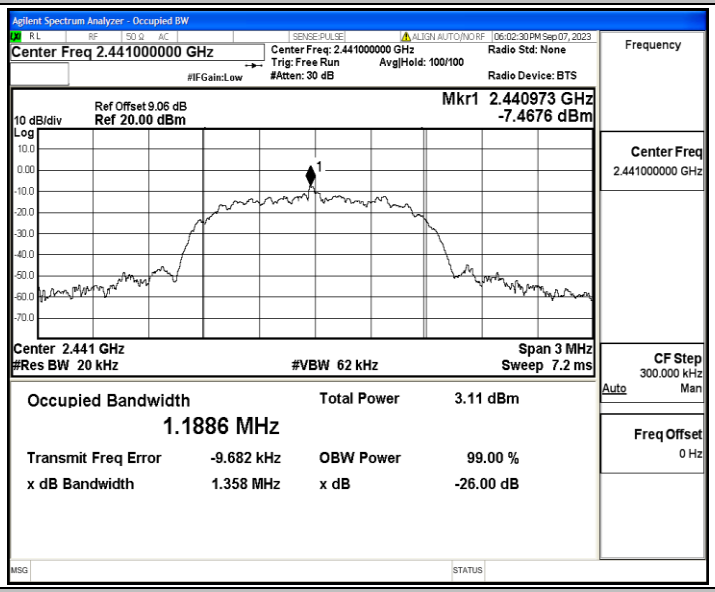
2DH5_Ant1_2480



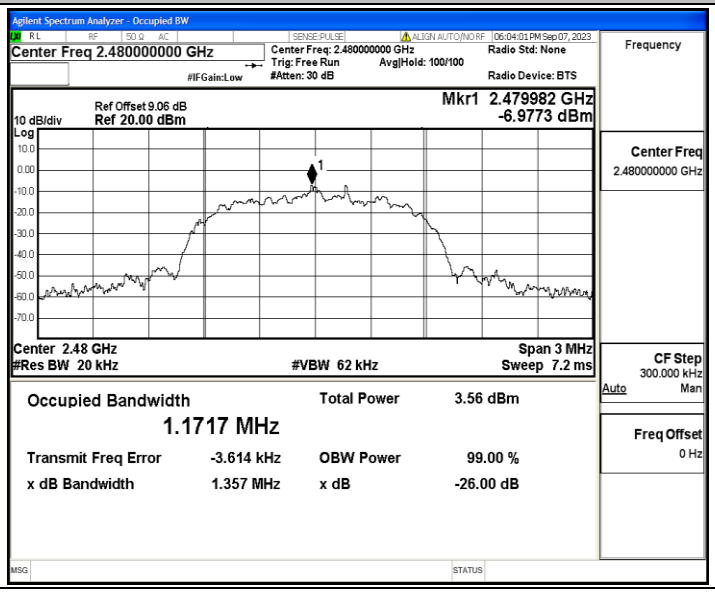
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



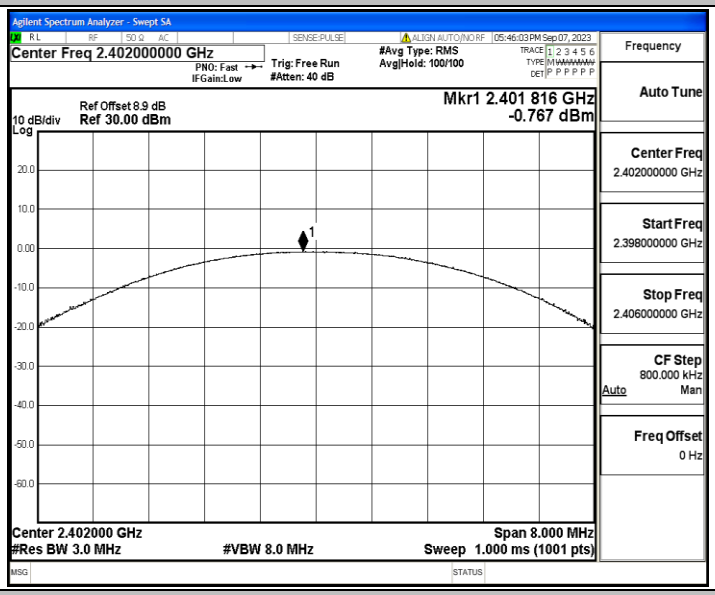
Appendix C: Maximum Peak conducted output power

Test Result

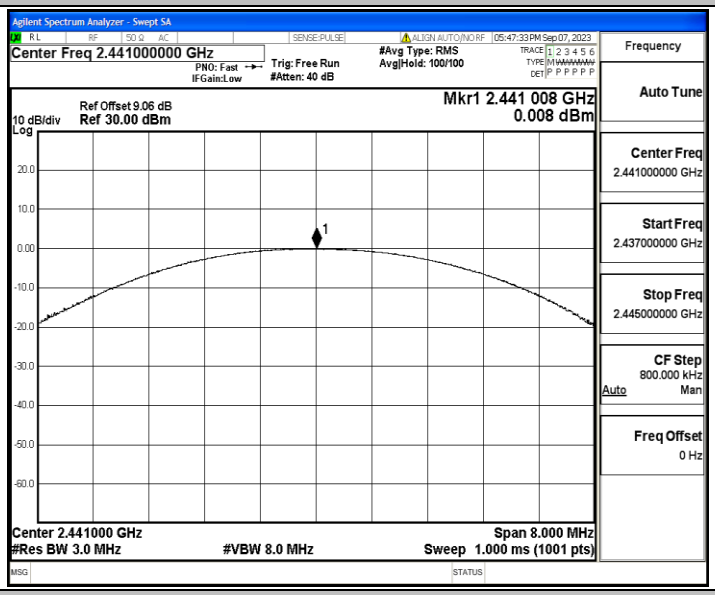
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.77	≤30	PASS
		2441	0.01	≤30	PASS
		2480	-0.04	≤30	PASS
2DH5	Ant1	2402	1.21	≤20.97	PASS
		2441	-0.87	≤20.97	PASS
		2480	-0.84	≤20.97	PASS
3DH5	Ant1	2402	-1.46	≤20.97	PASS
		2441	-0.63	≤20.97	PASS
		2480	-0.61	≤20.97	PASS

Test Graphs

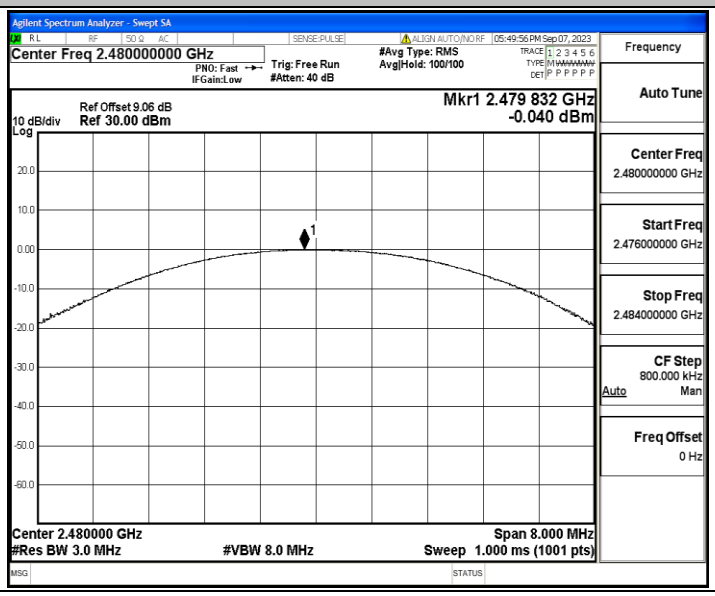
DH5_Ant1_2402



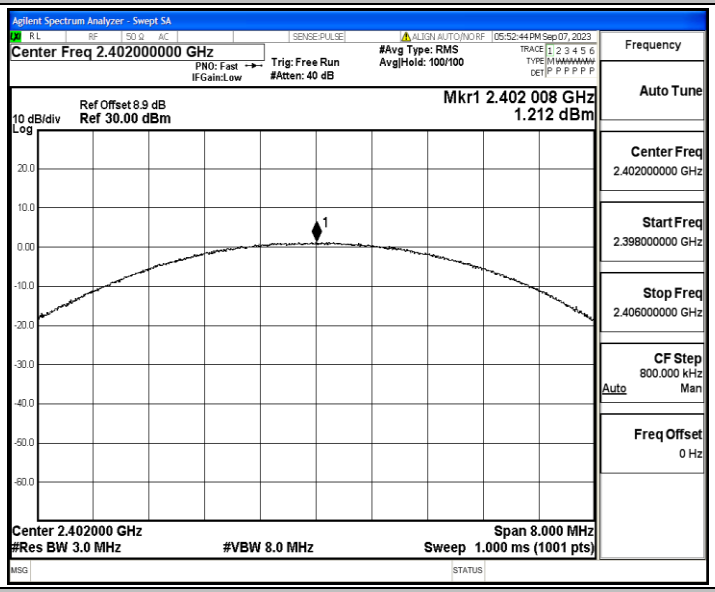
DH5_Ant1_2441



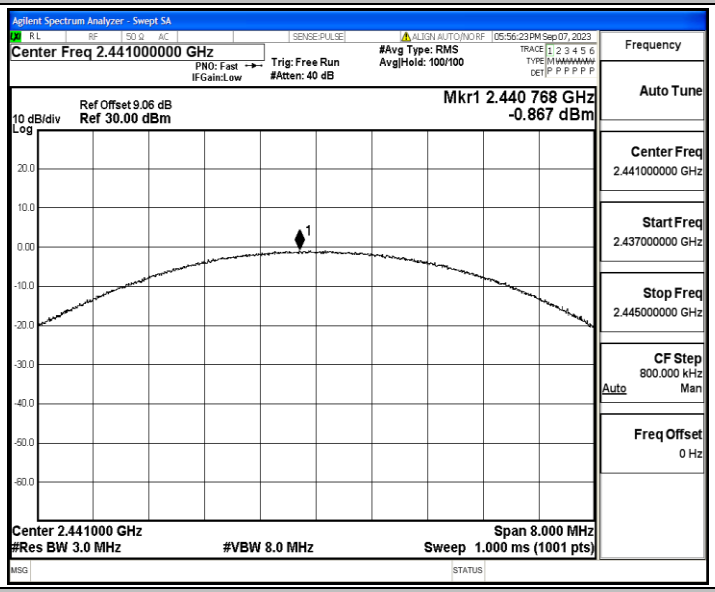
DH5_Ant1_2480



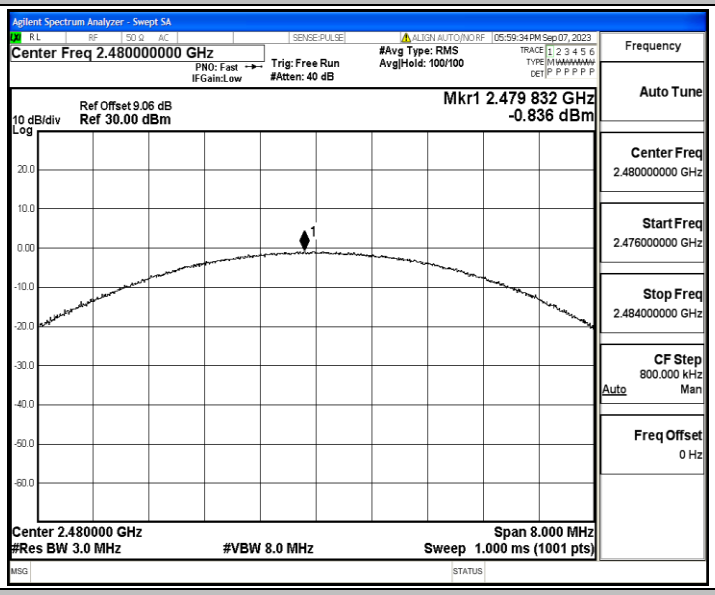
2DH5_Ant1_2402



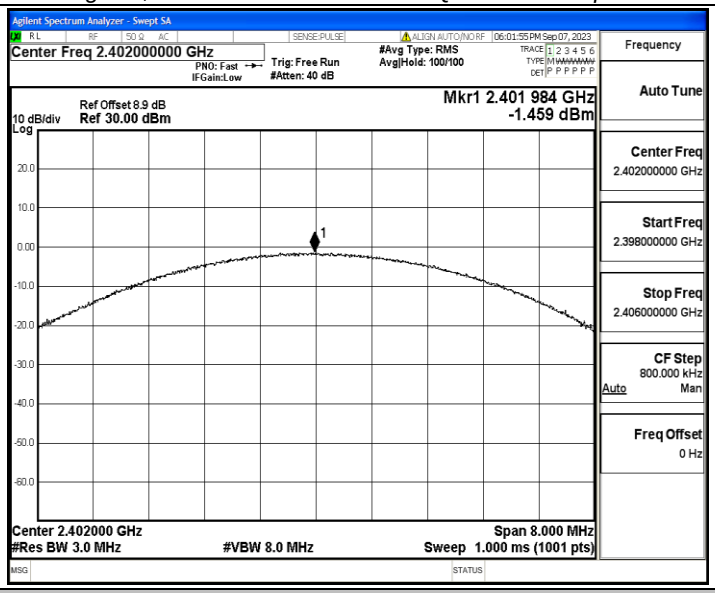
2DH5_Ant1_2441



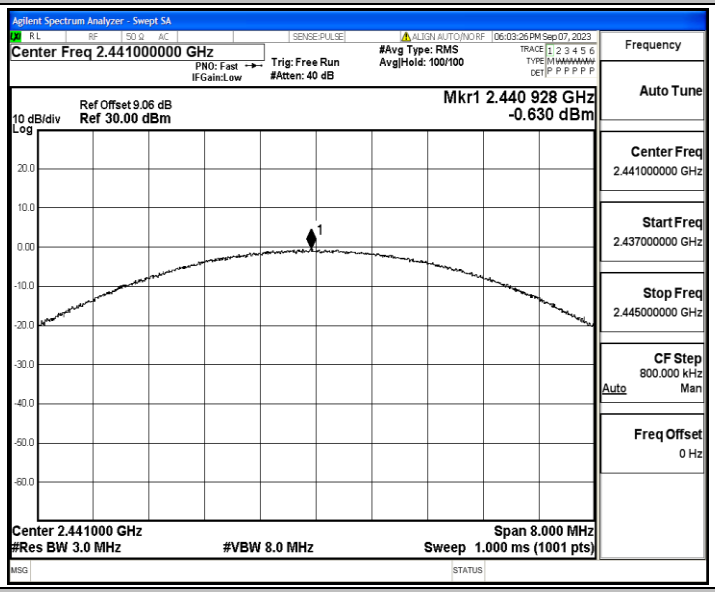
2DH5_Ant1_2480



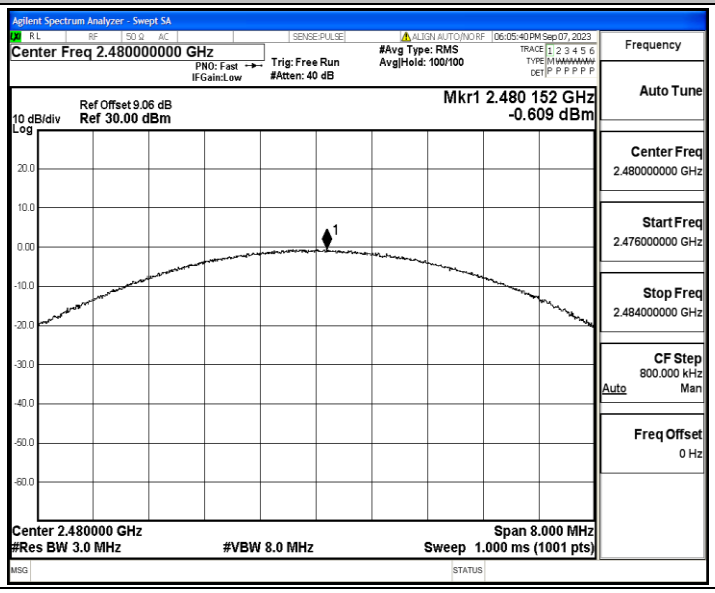
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



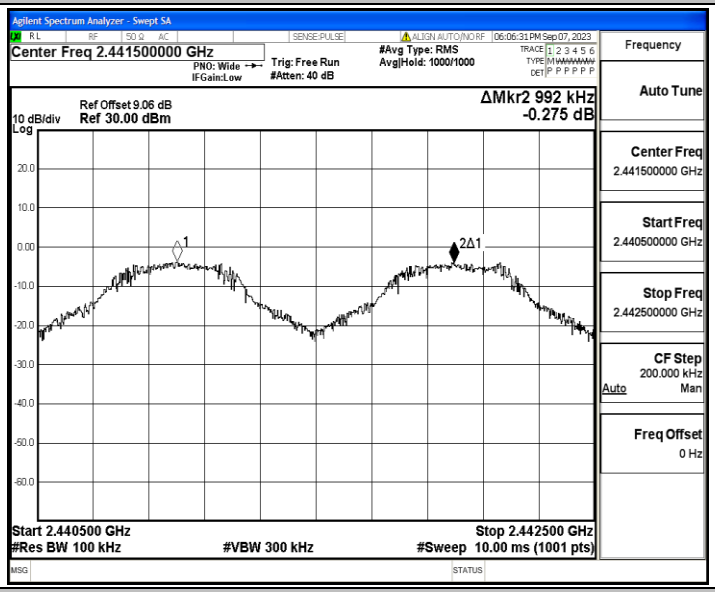
Appendix D: Carrier frequency separation

Test Result

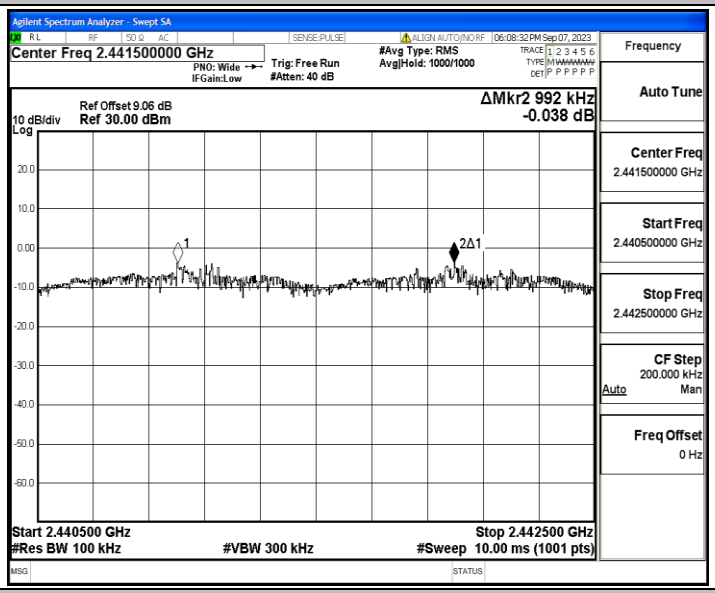
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥0.948	PASS
2DH5	Ant1	Hop	0.992	≥0.890	PASS
3DH5	Ant1	Hop	1.228	≥0.890	PASS

Test Graphs

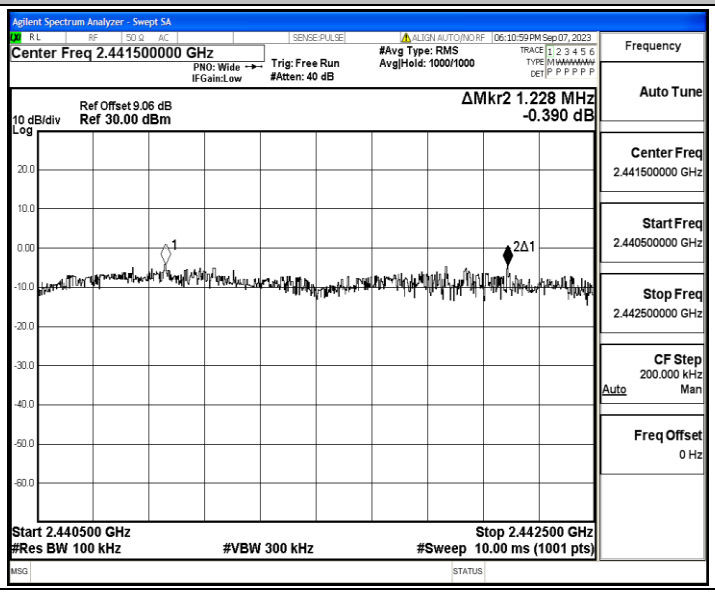
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

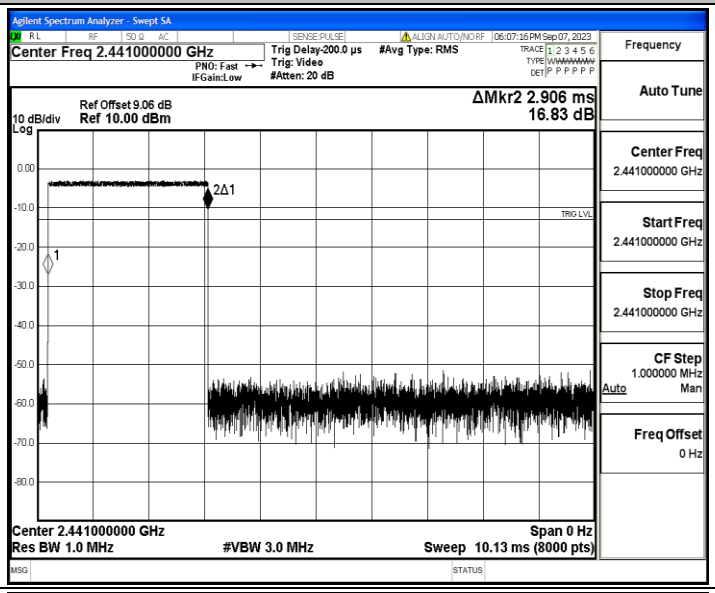
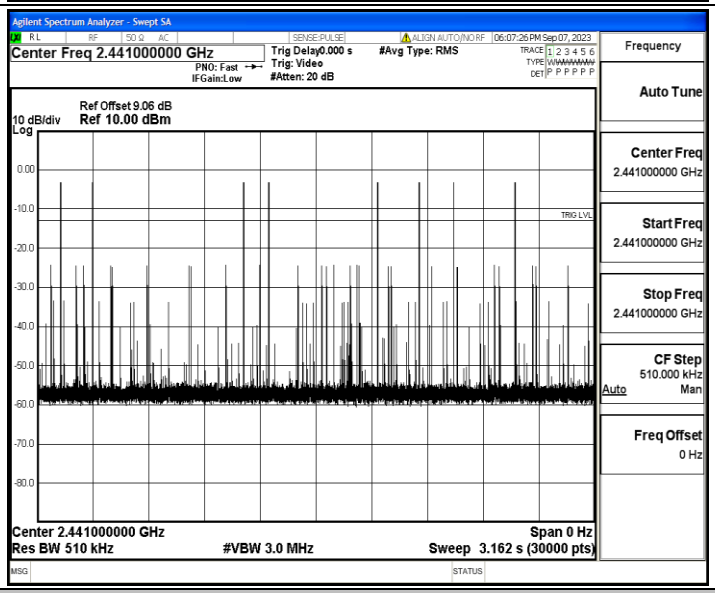
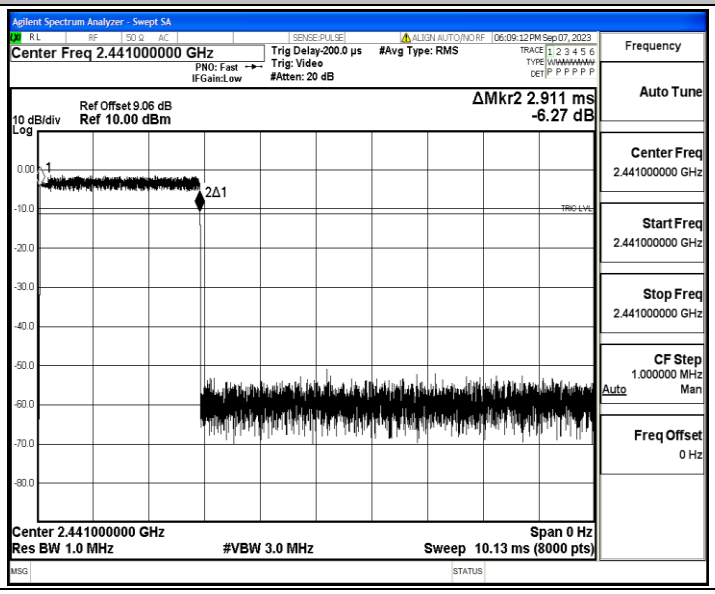


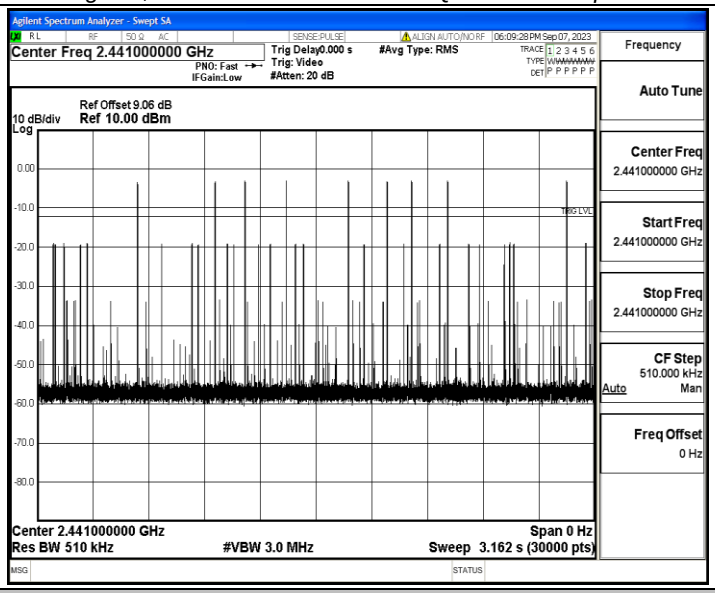
Appendix E: Time of occupancy

Test Result

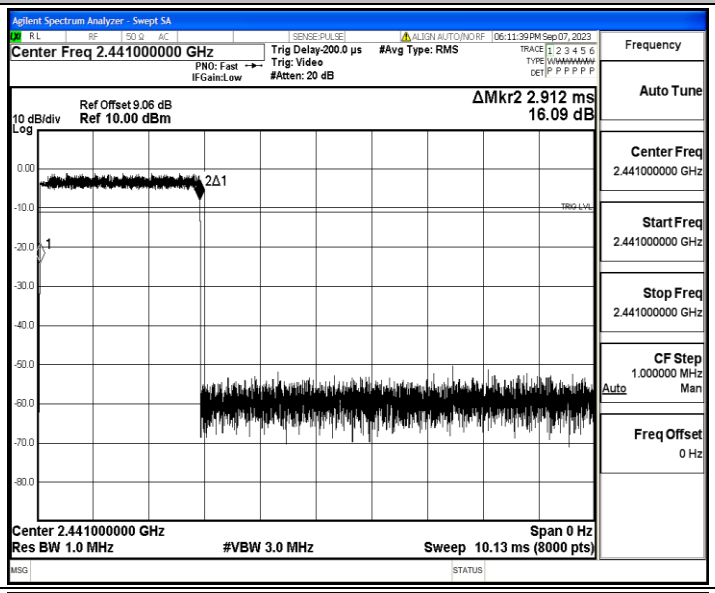
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.906	90	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.911	100	0.291	≤0.4	PASS
3DH5	Ant1	Hop	2.912	130	0.379	≤0.4	PASS

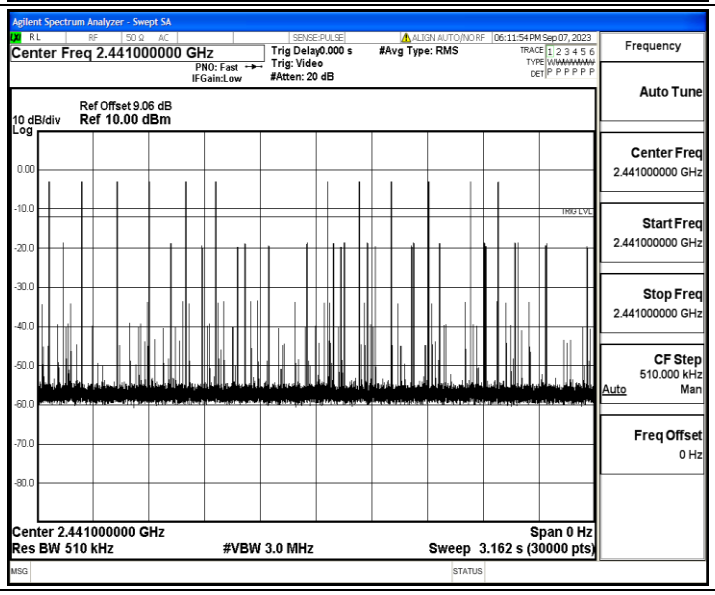
Test Graphs

DH5_Ant1_Hop


2DH5_Ant1_Hop




3DH5_Ant1_Hop





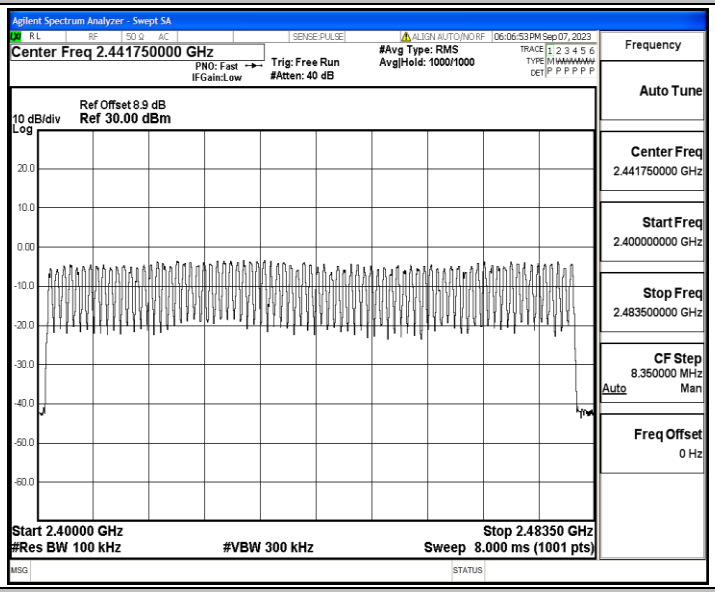
Appendix F: Number of hopping channels

Test Result

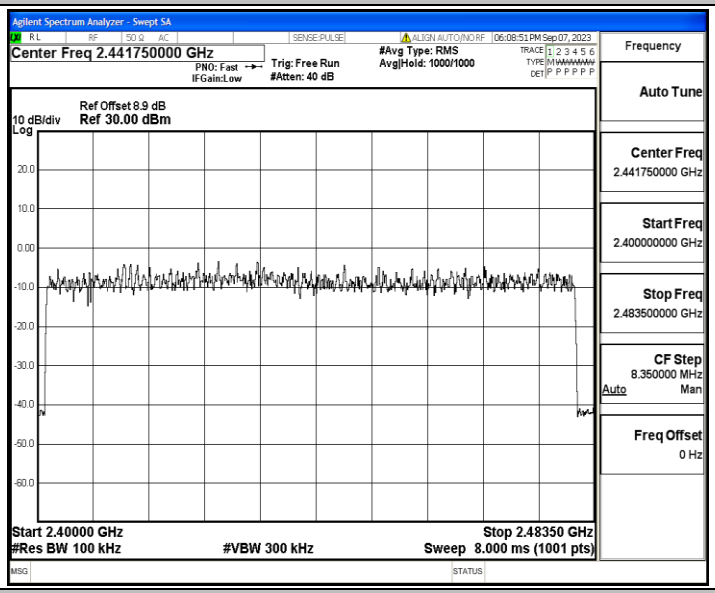
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

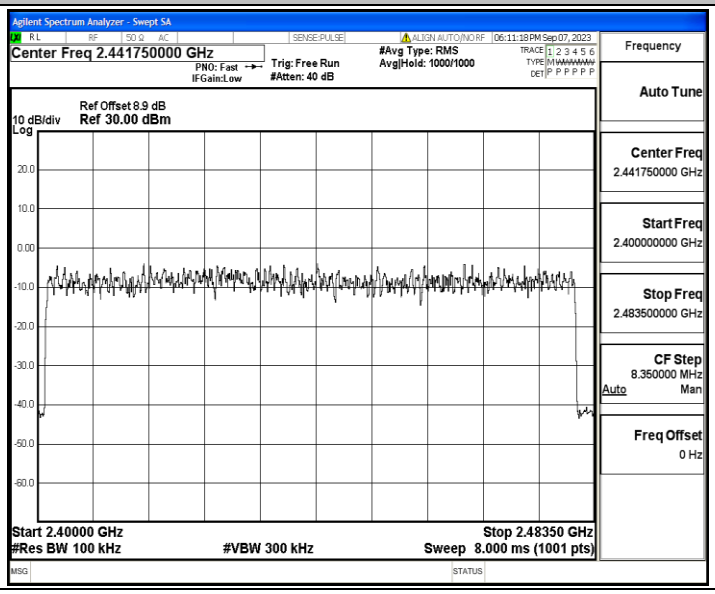
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



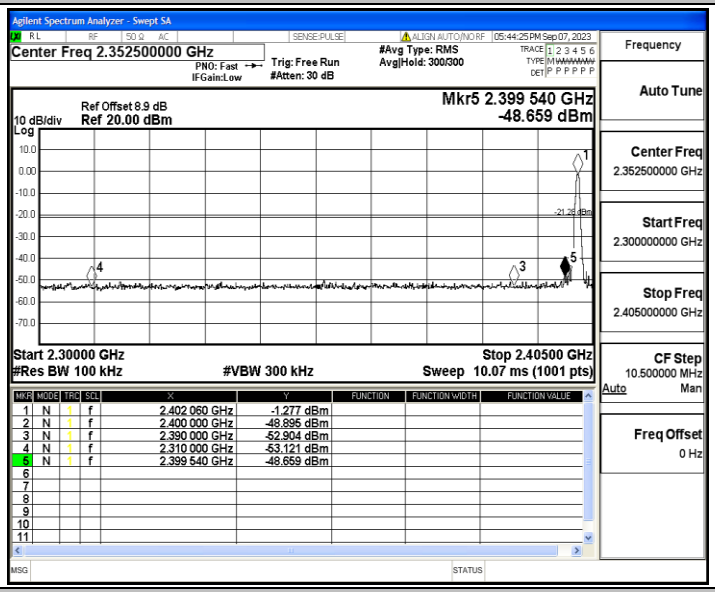
Appendix G: Band edge measurements

Test Result

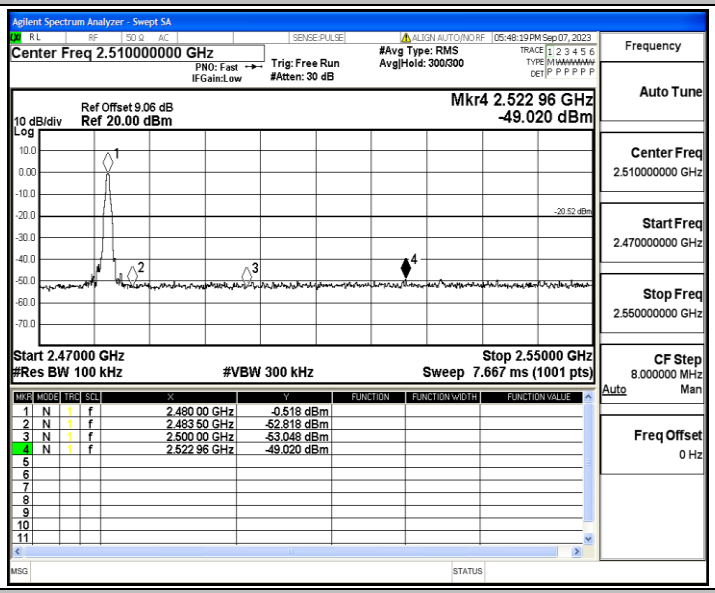
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.28	-48.66	≤-21.28	PASS
		High	2480	-0.52	-49.02	≤-20.52	PASS
		Low	Hop_2402	-5.51	-51.04	≤-25.51	PASS
		High	Hop_2480	-3.80	-49.26	≤-23.8	PASS
2DH5	Ant1	Low	2402	-1.46	-50.1	≤-21.46	PASS
		High	2480	-3.98	-49.78	≤-23.98	PASS
		Low	Hop_2402	-4.75	-50.26	≤-24.75	PASS
		High	Hop_2480	-3.68	-48.94	≤-23.68	PASS
3DH5	Ant1	Low	2402	-4.42	-48.85	≤-24.42	PASS
		High	2480	-3.80	-49.31	≤-23.8	PASS
		Low	Hop_2402	-6.61	-50.17	≤-26.61	PASS
		High	Hop_2480	-4.12	-49.18	≤-24.12	PASS

Test Graphs

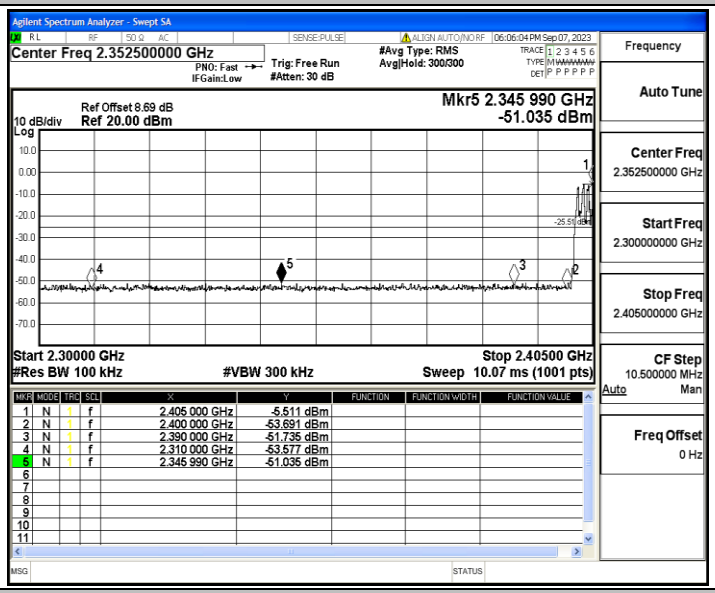
DH5_Ant1_Low_2402



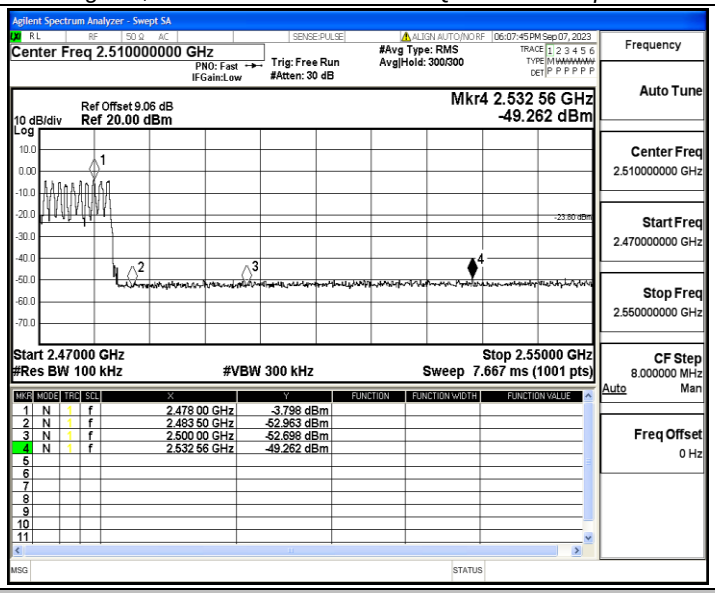
DH5_Ant1_High_2480



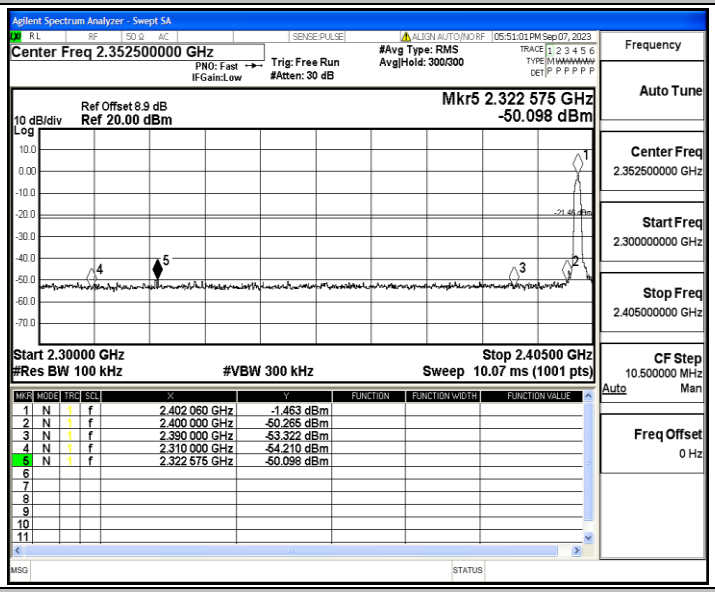
DH5_Ant1_Low_Hop_2402



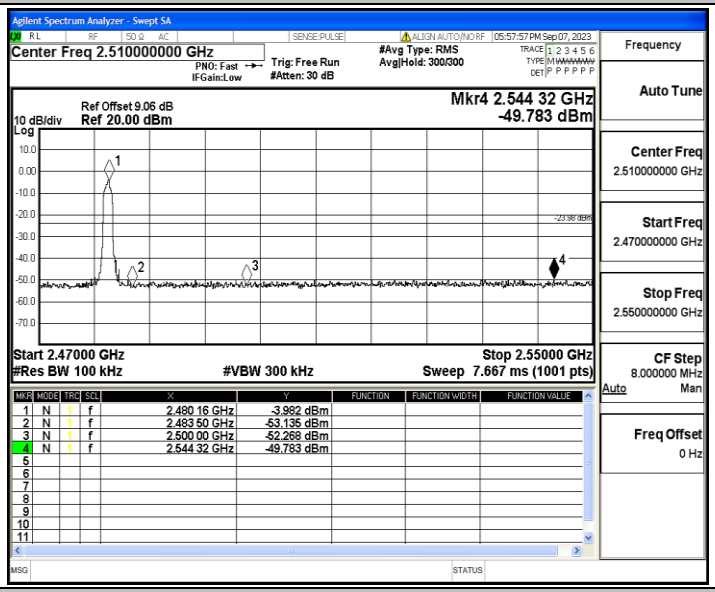
DH5_Ant1_High_Hop_2480



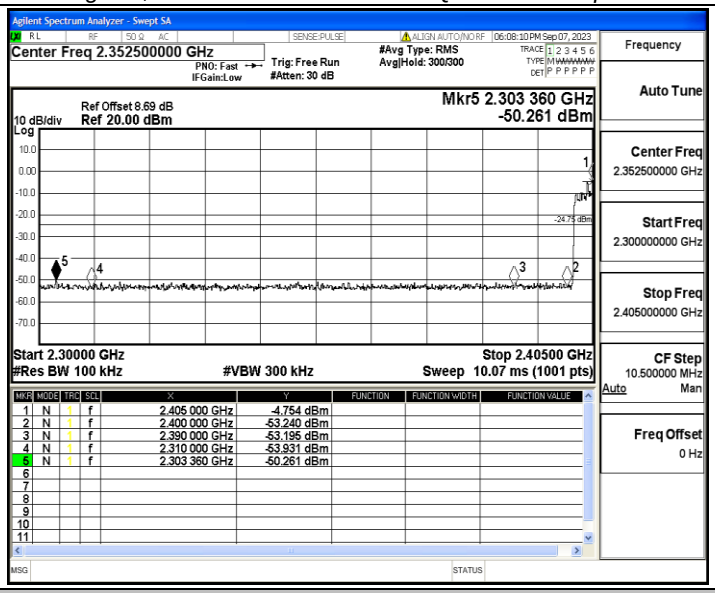
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



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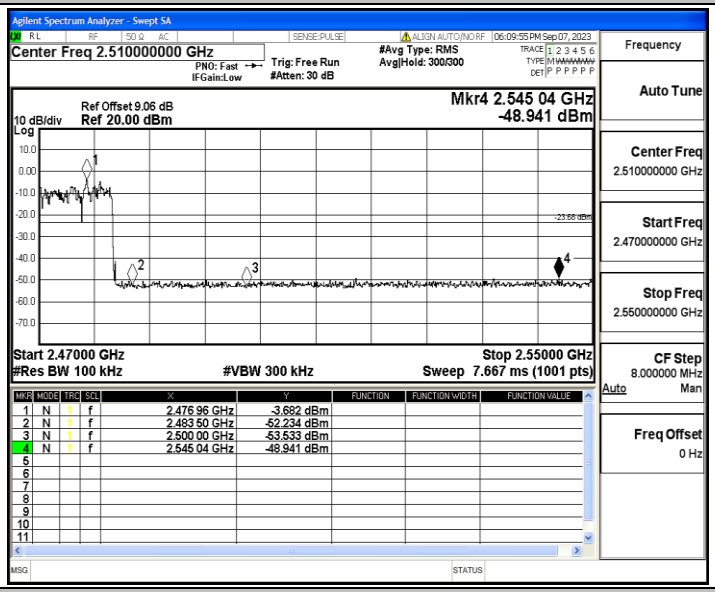
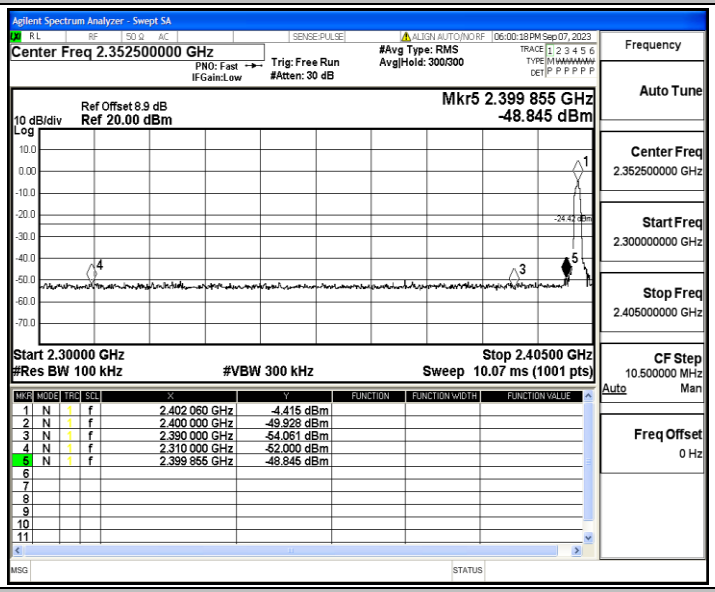


3DH5_Ant1_Low_2402



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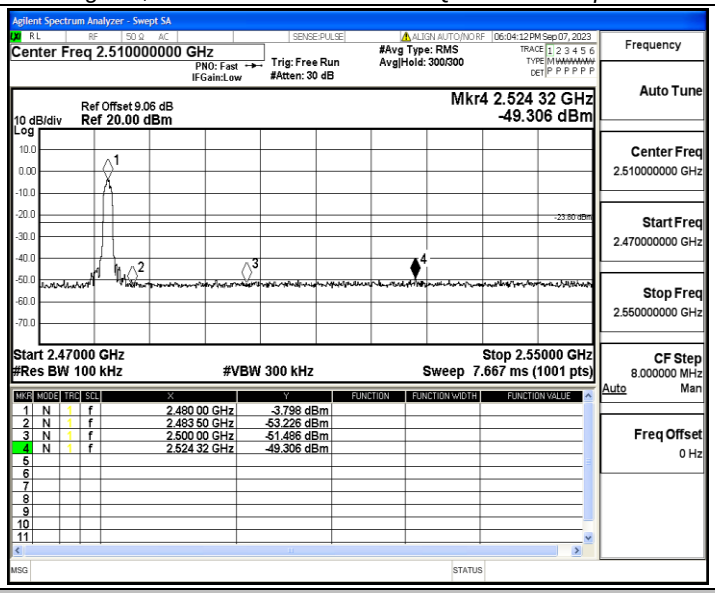
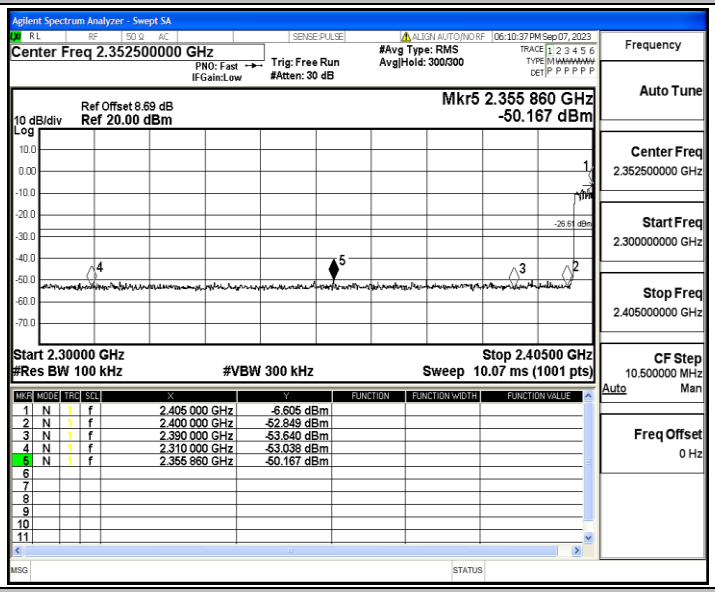
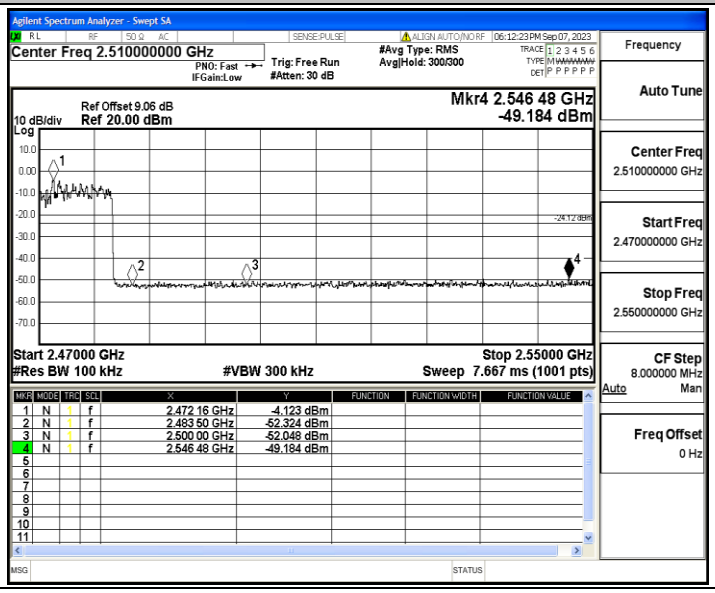


3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



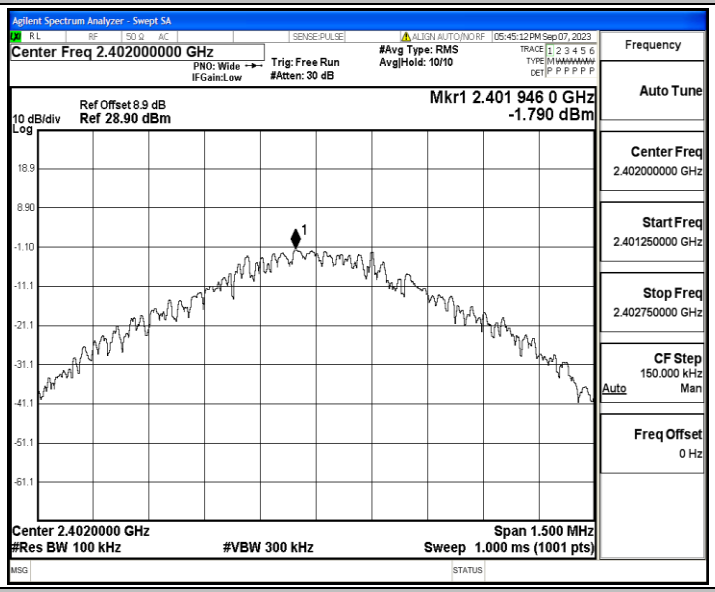
Appendix H: Conducted Spurious Emission

Test Result

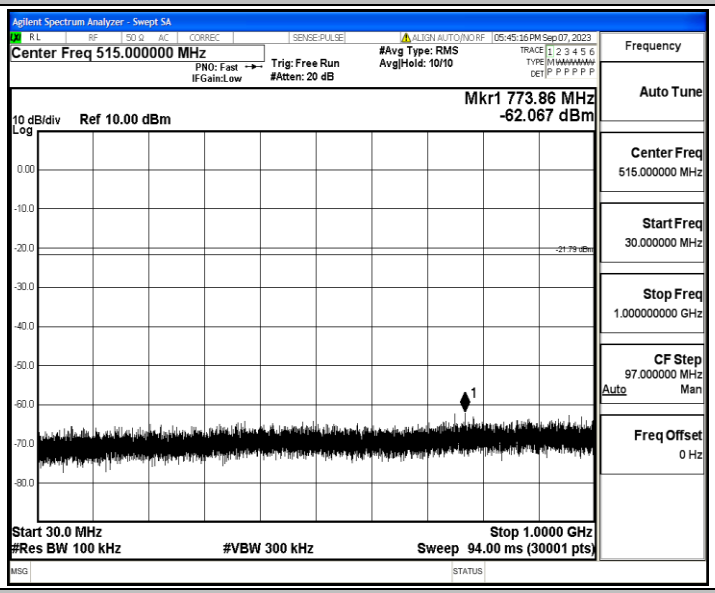
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-62.07	≤-21.79	PASS
			1000~26500	-1.79	-35.62	≤-21.79	PASS
		2441	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-62.5	≤-21.45	PASS
			1000~26500	-1.45	-36.59	≤-21.45	PASS
		2480	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-62.5	≤-20.81	PASS
			1000~26500	-0.81	-38.25	≤-20.81	PASS
2DH5	Ant1	2402	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-63.22	≤-24.48	PASS
			1000~26500	-4.48	-35.99	≤-24.48	PASS
		2441	Reference	-5.14	-5.14	---	PASS
			30~1000	-5.14	-63.09	≤-25.14	PASS
			1000~26500	-5.14	-40.4	≤-25.14	PASS
		2480	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-61.85	≤-24.9	PASS
			1000~26500	-4.90	-45.13	≤-24.9	PASS
3DH5	Ant1	2402	Reference	-6.59	-6.59	---	PASS
			30~1000	-6.59	-62.53	≤-26.59	PASS
			1000~26500	-6.59	-43.52	≤-26.59	PASS
		2441	Reference	-5.81	-5.81	---	PASS
			30~1000	-5.81	-62.27	≤-25.81	PASS
			1000~26500	-5.81	-42.52	≤-25.81	PASS
		2480	Reference	-6.04	-6.04	---	PASS
			30~1000	-6.04	-62.84	≤-26.04	PASS
			1000~26500	-6.04	-44.35	≤-26.04	PASS

Test Graphs

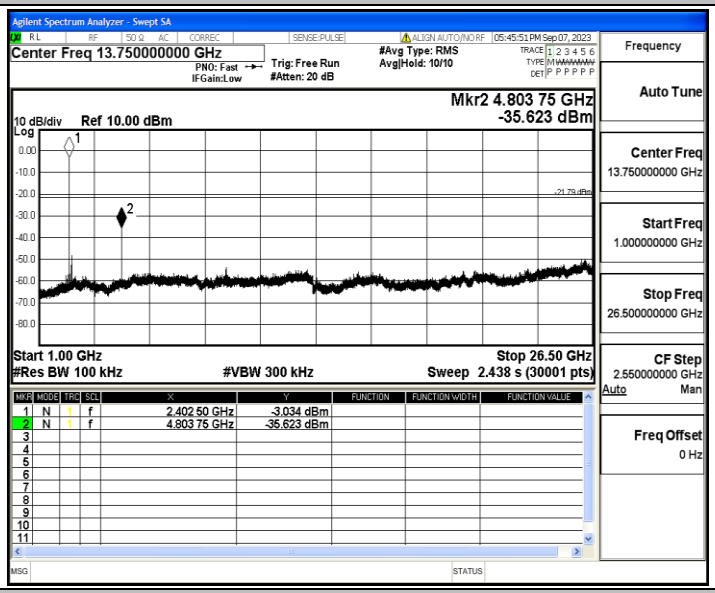
DH5_Ant1_2402_0~Reference



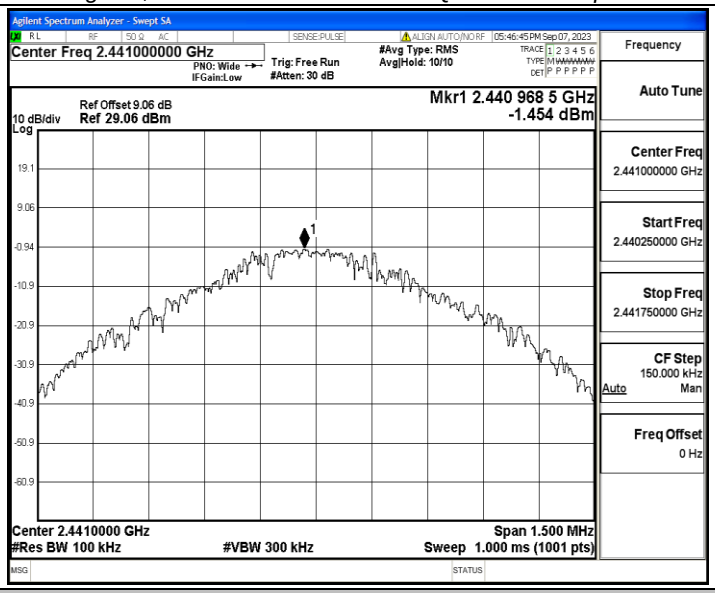
DH5_Ant1_2402_30~1000



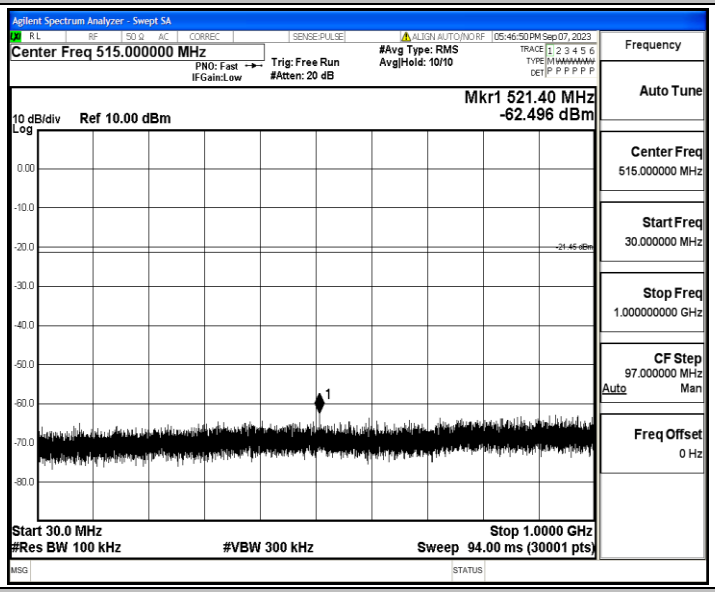
DH5_Ant1_2402_1000~26500



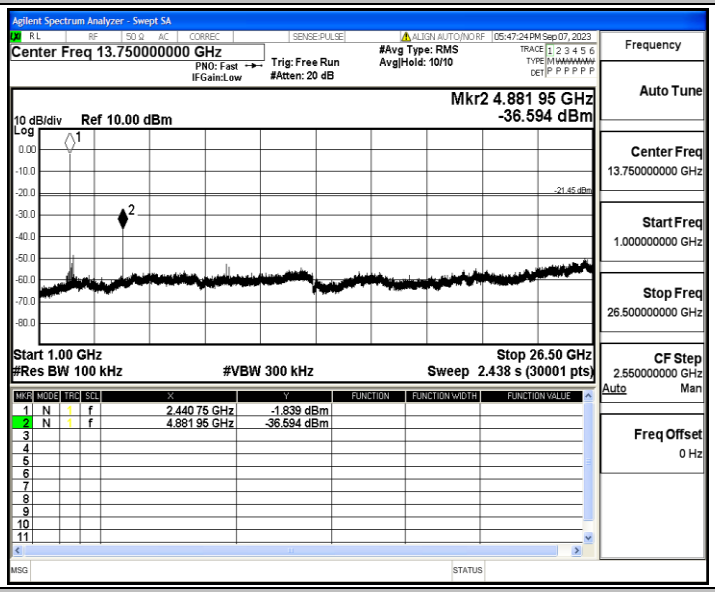
DH5_Ant1_2441_0~Reference



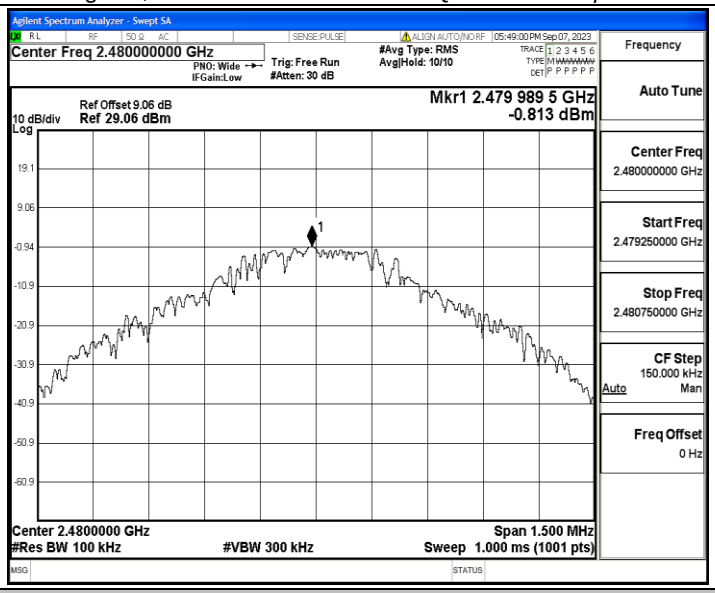
DH5_Ant1_2441_30~1000



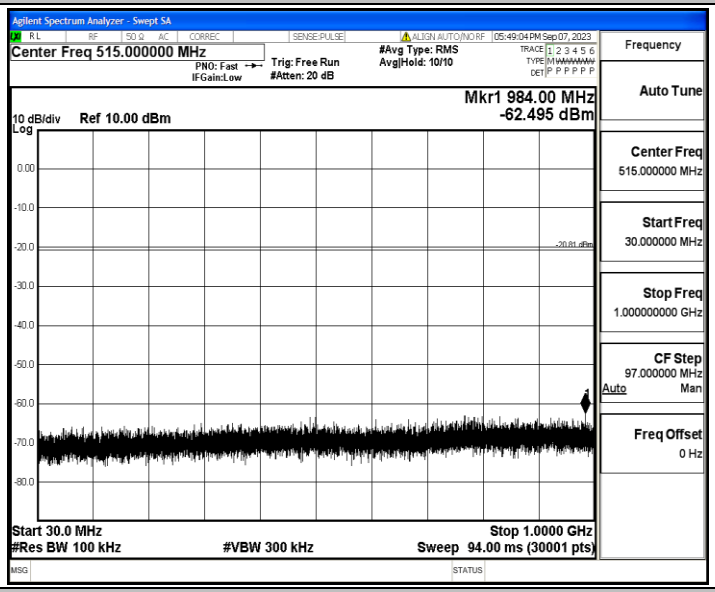
DH5_Ant1_2441_1000~26500



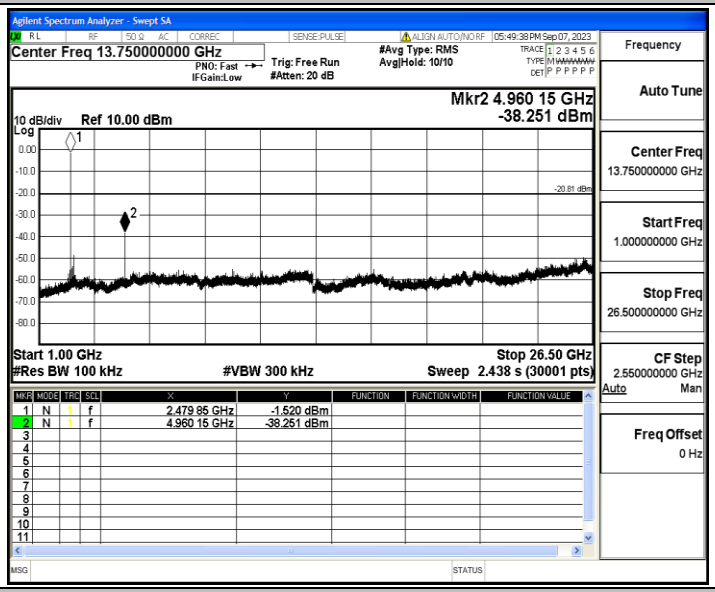
DH5_Ant1_2480_0~Reference



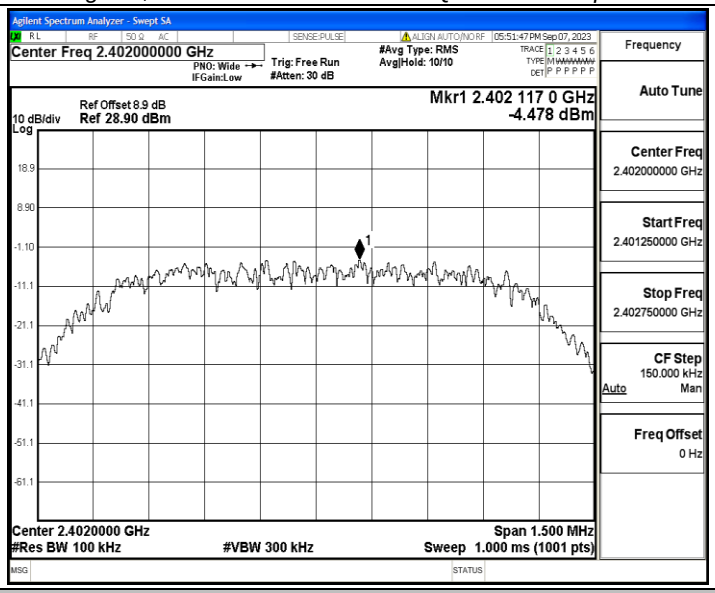
DH5_Ant1_2480_30~1000



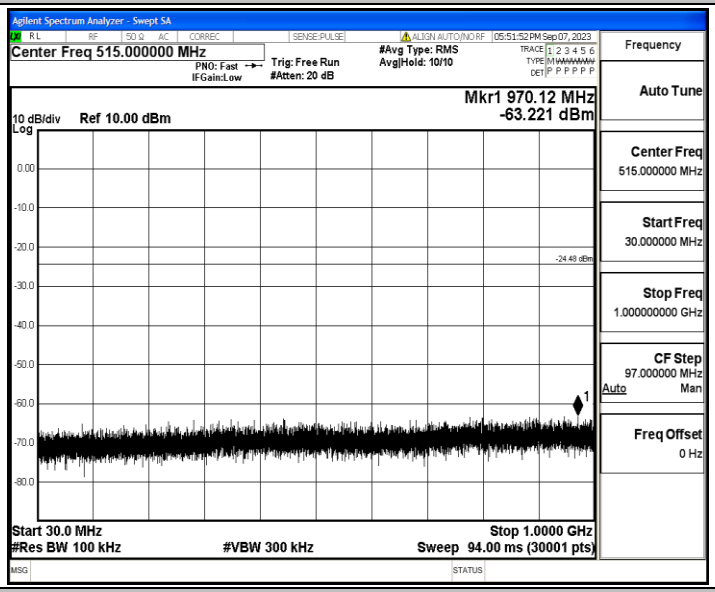
DH5_Ant1_2480_1000~26500



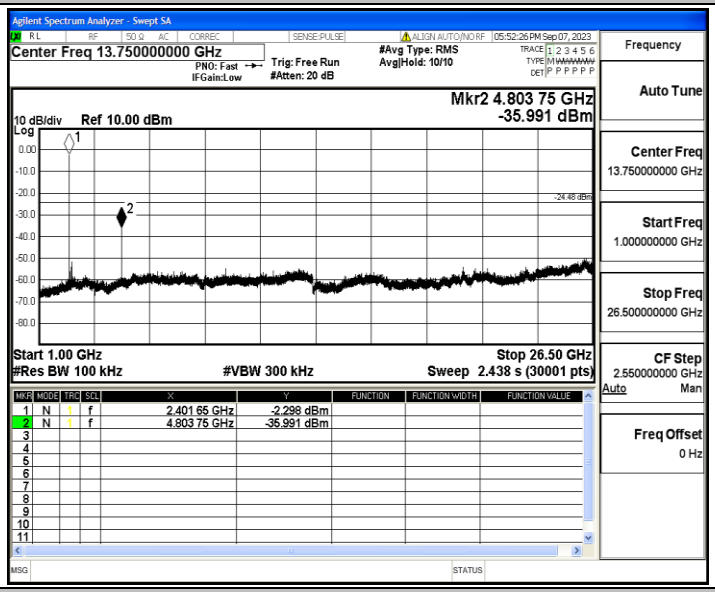
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference