Case No. : GTS20230411005-1-12	
Ambient Condition: 24 ℃, 50 %RH, Atmos100.1Kpa,	
Test Date: 2023.5.9	**Test Engineer:** Jenny zeng

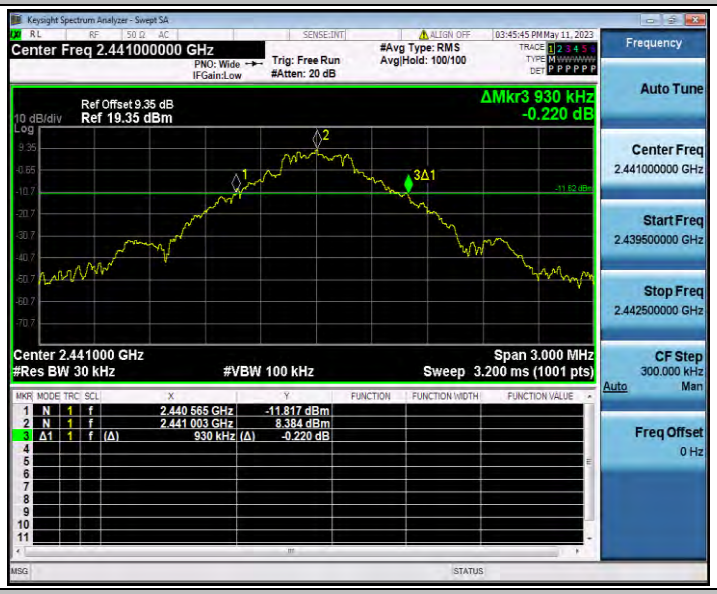
Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.894	2401.553	2402.447	---	---
		2441	0.930	2440.565	2441.495	---	---
		2480	0.939	2479.550	2480.489	---	---
2DH1	Ant1	2402	1.434	2401.271	2402.705	---	---
		2441	1.413	2440.298	2441.711	---	---
		2480	1.443	2479.265	2480.708	---	---
3DH1	Ant1	2402	1.386	2401.298	2402.684	---	---
		2441	1.464	2440.271	2441.735	---	---
		2480	1.446	2479.280	2480.726	---	---

Test Graphs

DH1_Ant1_2402

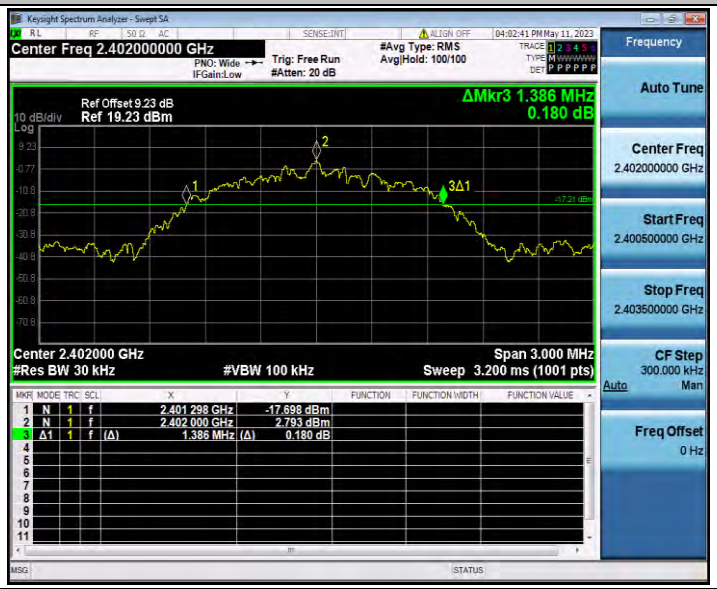


DH1_Ant1_2441

DH1_Ant1_2480

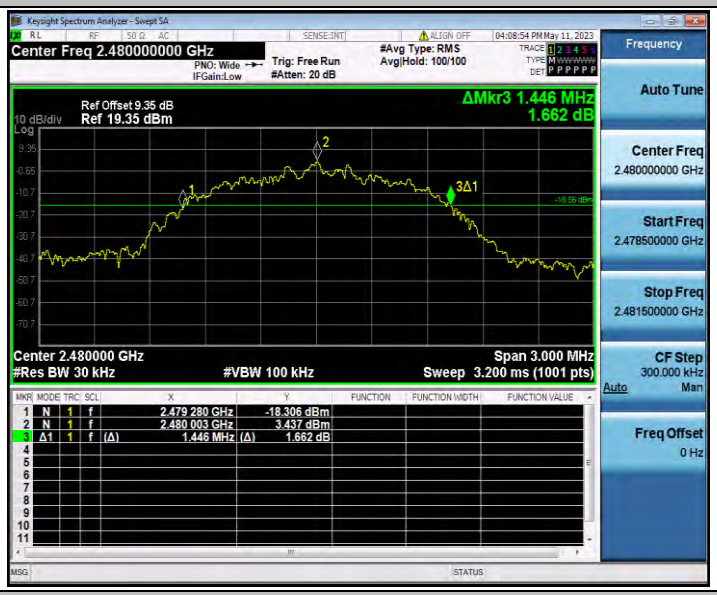
2DH1_Ant1_2402

2DH1_Ant1_2441

2DH1_Ant1_2480


3DH1_Ant1_2402

3DH1_Ant1_2441



3DH1_Ant1_2480

Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.85730	2401.572	2402.429	---	---
		2441	0.86074	2440.577	2441.438	---	---
		2480	0.86059	2479.569	2480.430	---	---
2DH1	Ant1	2402	1.3420	2401.335	2402.677	---	---
		2441	1.3357	2440.332	2441.668	---	---
		2480	1.3427	2479.326	2480.669	---	---
3DH1	Ant1	2402	1.3434	2401.334	2402.677	---	---
		2441	1.3411	2440.331	2441.673	---	---
		2480	1.3413	2479.329	2480.670	---	---

Test Graphs

DH1_Ant1_2402

DH1_Ant1_2441

DH1_Ant1_2480

2DH1_Ant1_2402

2DH1_Ant1_2441

2DH1_Ant1_2480

3DH1_Ant1_2402

3DH1_Ant1_2441

3DH1_Ant1_2480

Appendix A.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	8.68	≤30.00	PASS
		2441	10.59	≤30.00	PASS
		2480	10.54	≤30.00	PASS
2DH1	Ant1	2402	6.98	≤20.97	PASS
		2441	8.65	≤20.97	PASS
		2480	8.23	≤20.97	PASS
3DH1	Ant1	2402	7.17	≤20.97	PASS
		2441	8.79	≤20.97	PASS
		2480	8.47	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

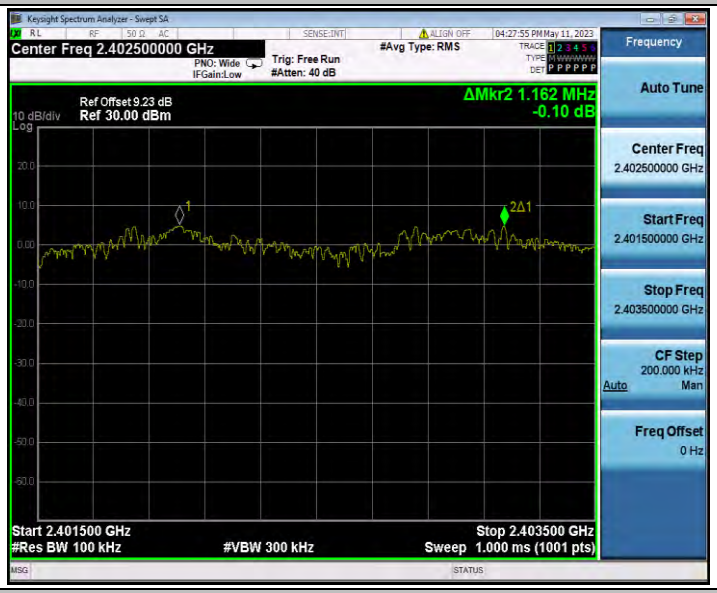
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.998	≥0.939	PASS
		Hop_2441	0.992	≥0.939	PASS
		Hop_2480	0.994	≥0.939	PASS
2DH1	Ant1	Hop_2402	1.162	≥0.964	PASS
		Hop_2441	1.152	≥0.964	PASS
		Hop_2480	0.992	≥0.964	PASS
3DH1	Ant1	Hop_2402	0.99	≥0.976	PASS
		Hop_2441	1	≥0.976	PASS
		Hop_2480	1	≥0.976	PASS

Test Graphs

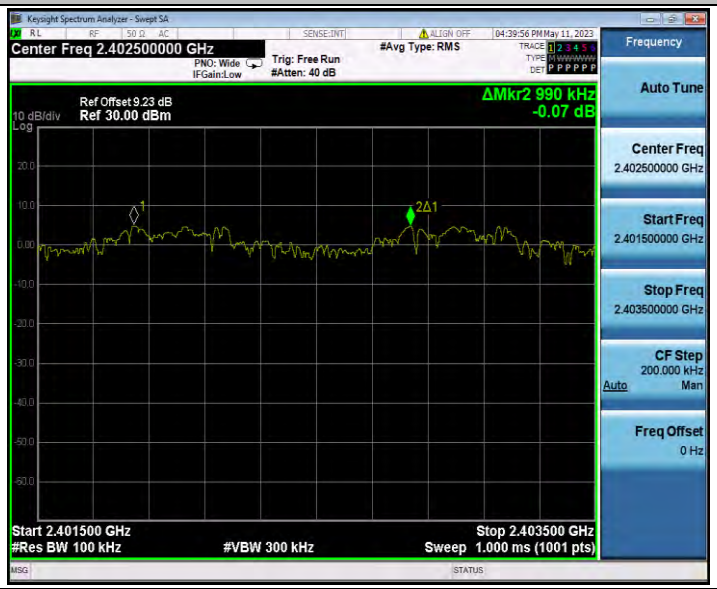
DH1_Ant1_Hop_2402

DH1_Ant1_Hop_2441

DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402

2DH1_Ant1_Hop_2441
2DH1_Ant1_Hop_2480

3DH1_Ant1_Hop_2402

3DH1_Ant1_Hop_2441

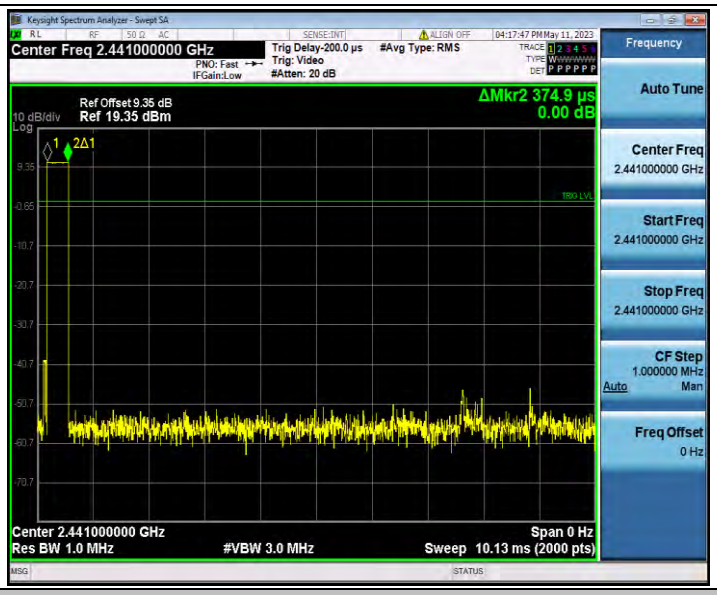
3DH1_Ant1_Hop_2480

Appendix A.5: Time of occupancy

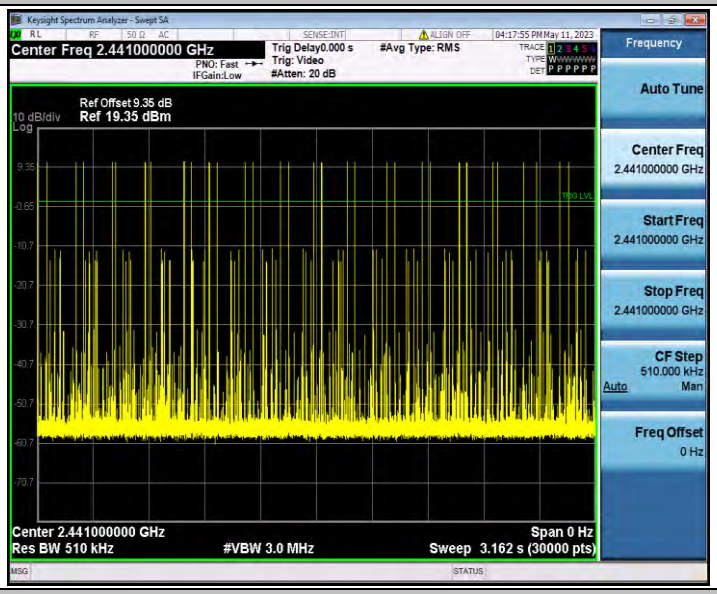
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.63	170	0.276	≤0.4	PASS
DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	180	0.294	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.63	180	0.294	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

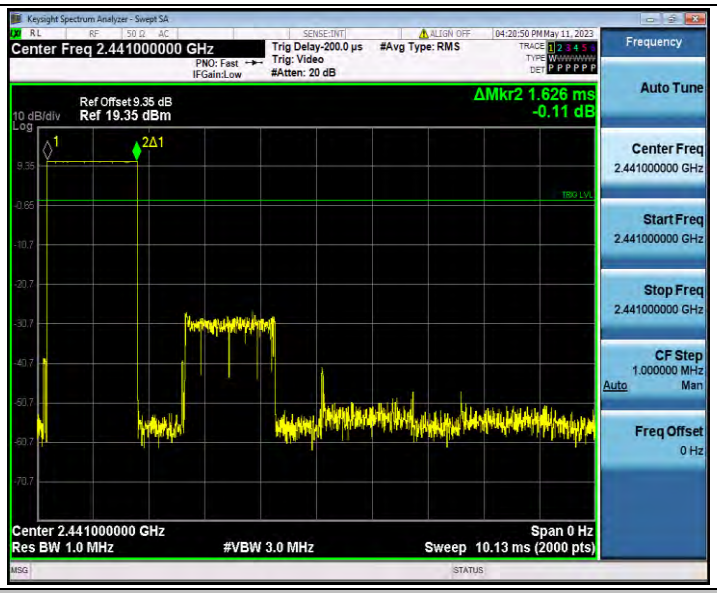
Test Graphs



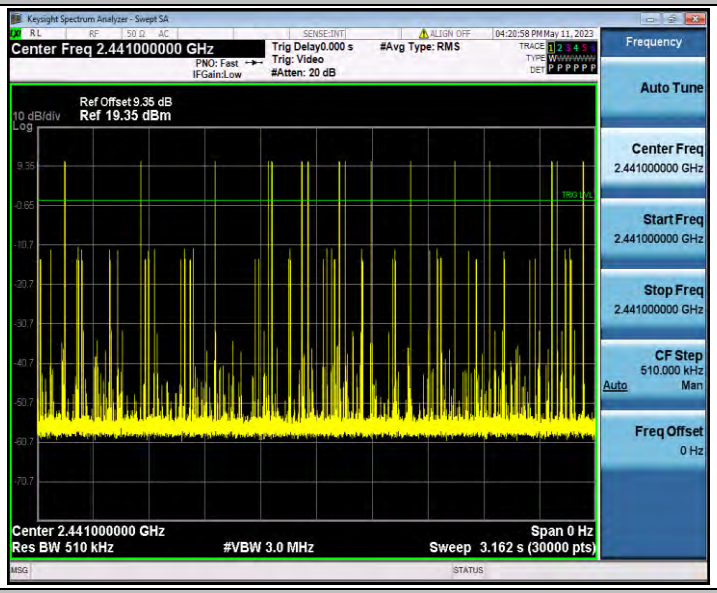
DH1_Ant1_Hop



DH1_Ant1_Hop

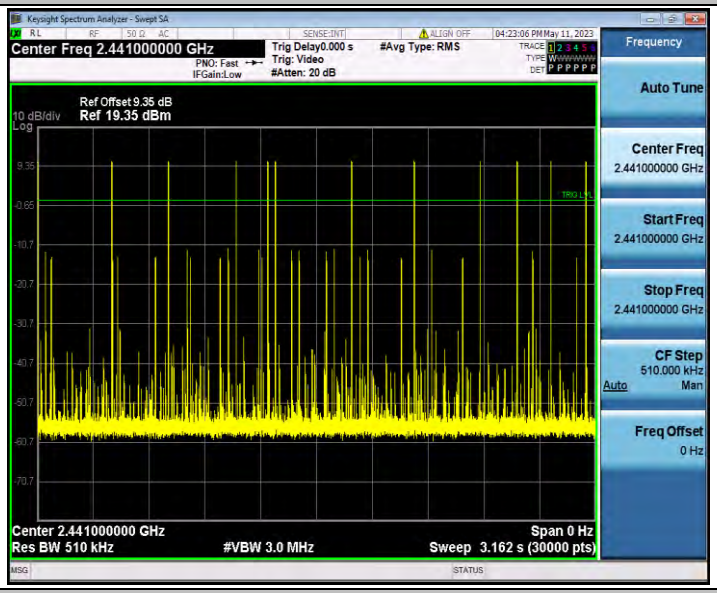


DH3_Ant1_Hop

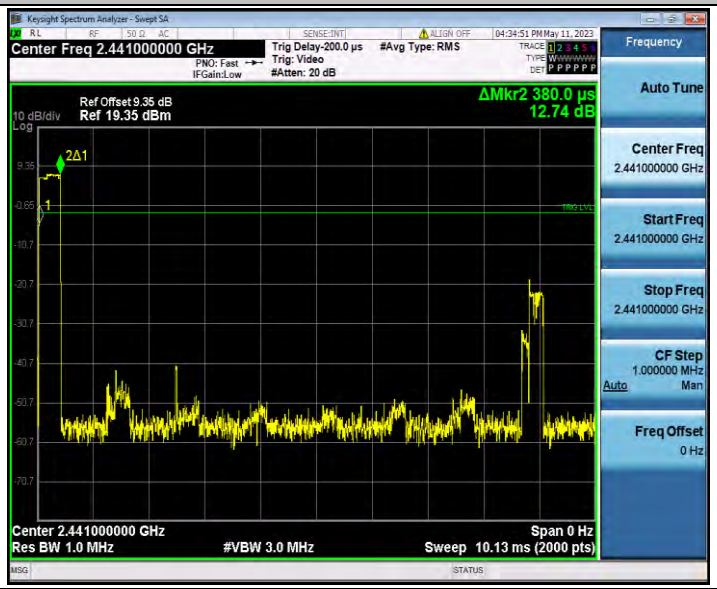


DH3_Ant1_Hop

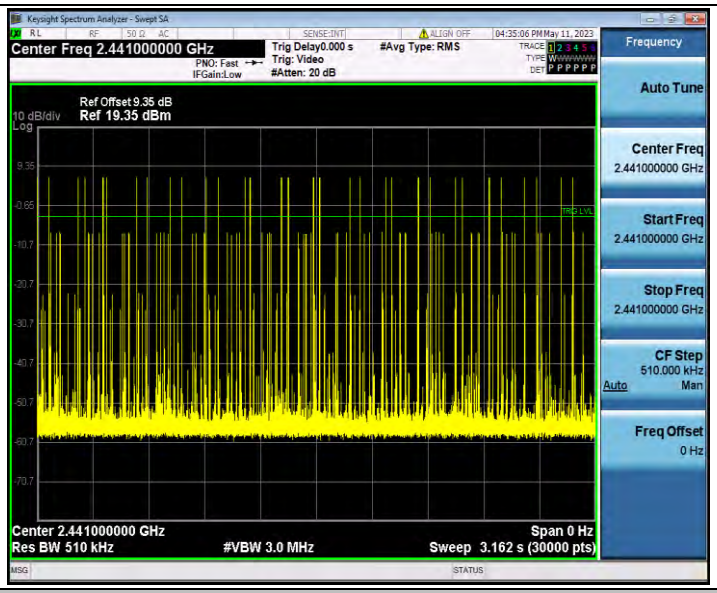
DH5_Ant1_Hop



DH5_Ant1_Hop

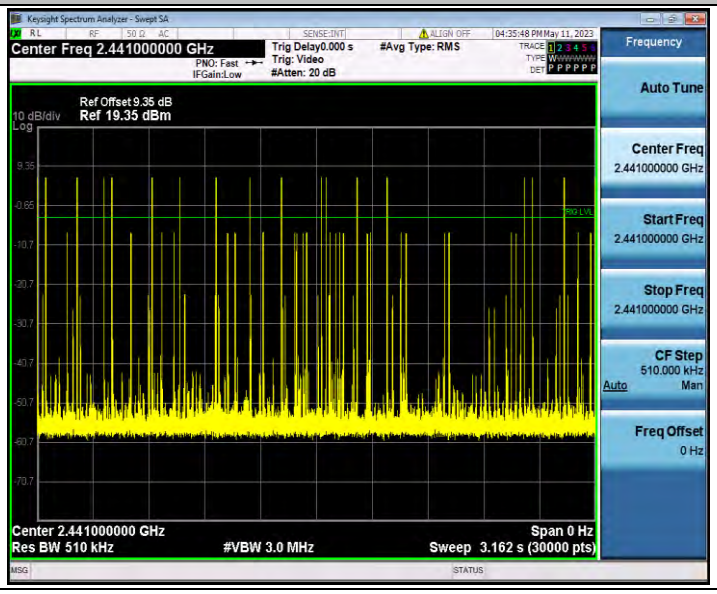


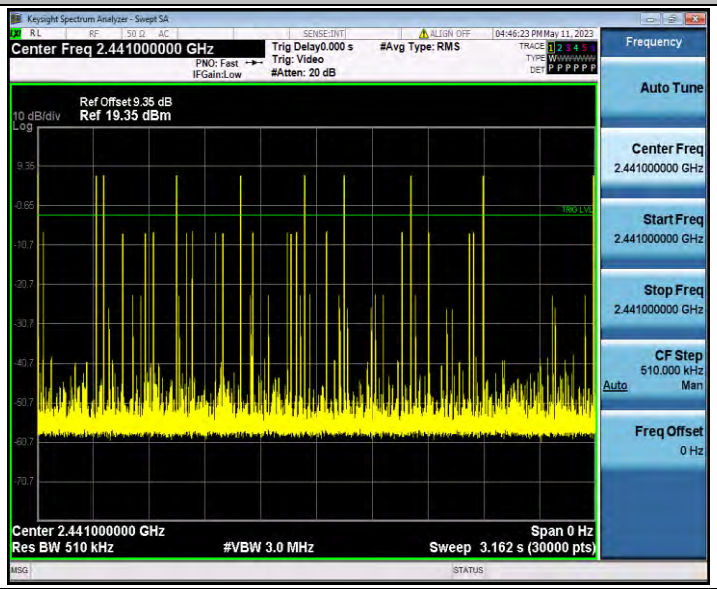
2DH1_Ant1_Hop

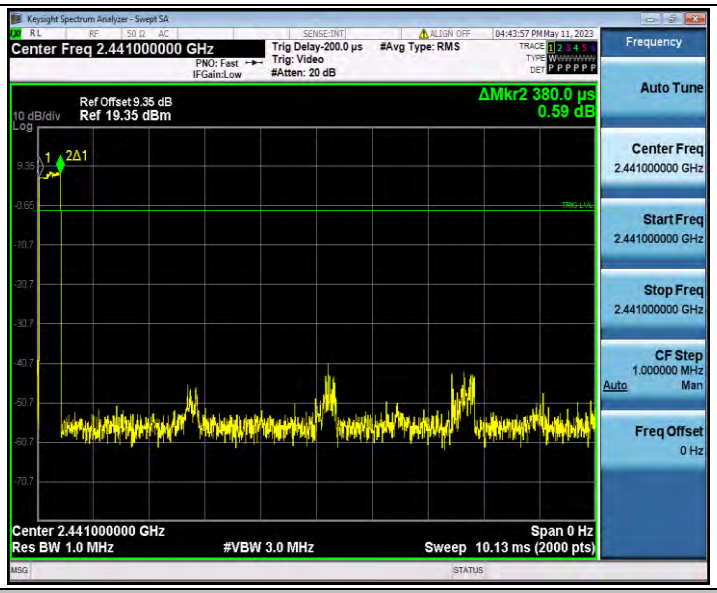


2DH1_Ant1_Hop

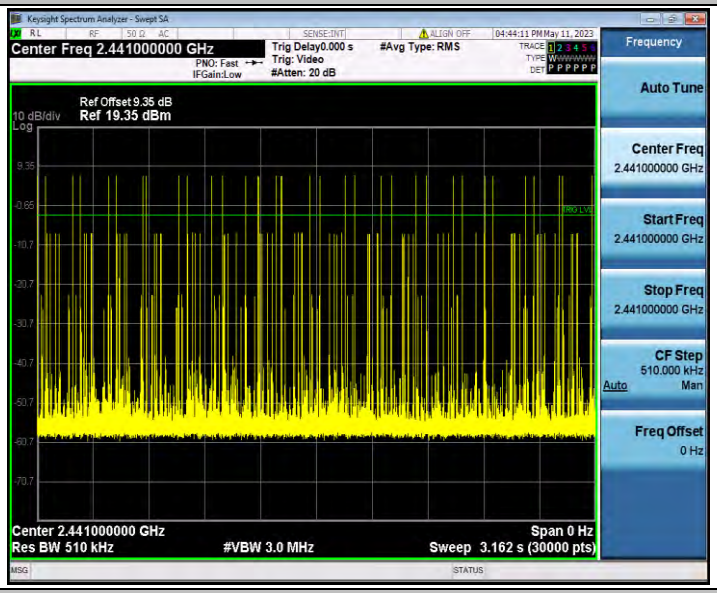
2DH3_Ant1_Hop



2DH3_Ant1_Hop
2DH5_Ant1_Hop

2DH5_Ant1_Hop

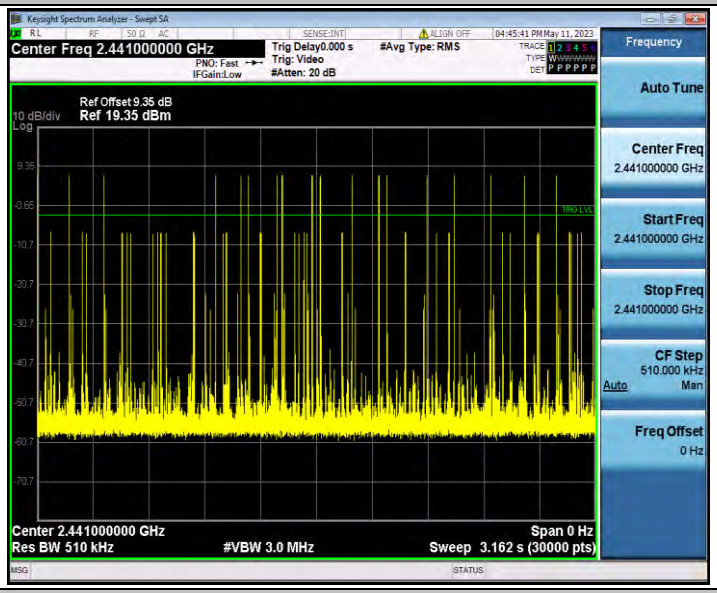


3DH1_Ant1_Hop

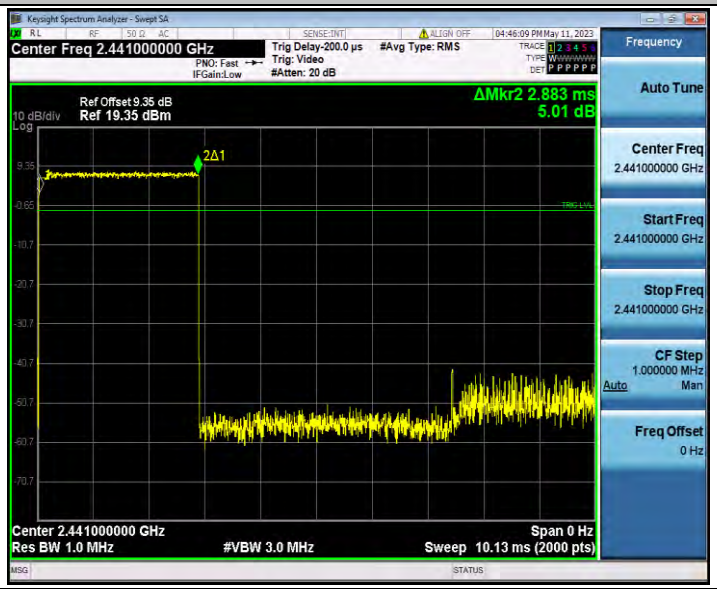


3DH1_Ant1_Hop

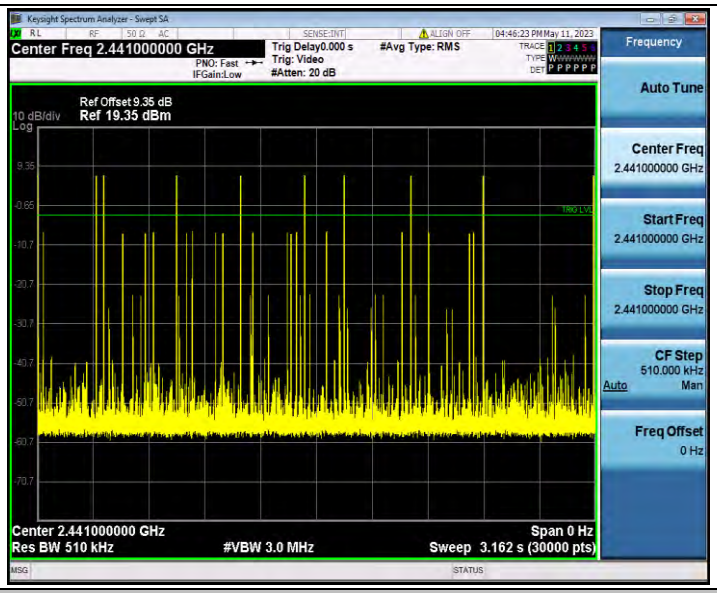
3DH3_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



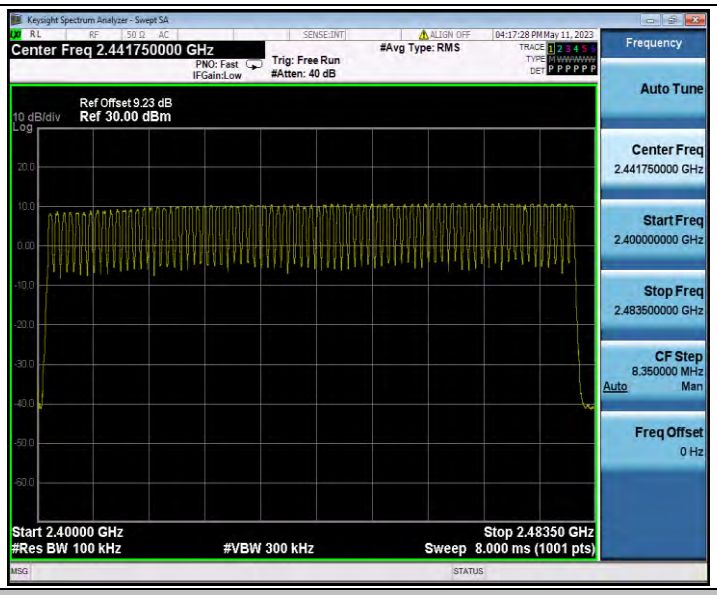
3DH5_Ant1_Hop

Appendix A.6: Number of hopping channels

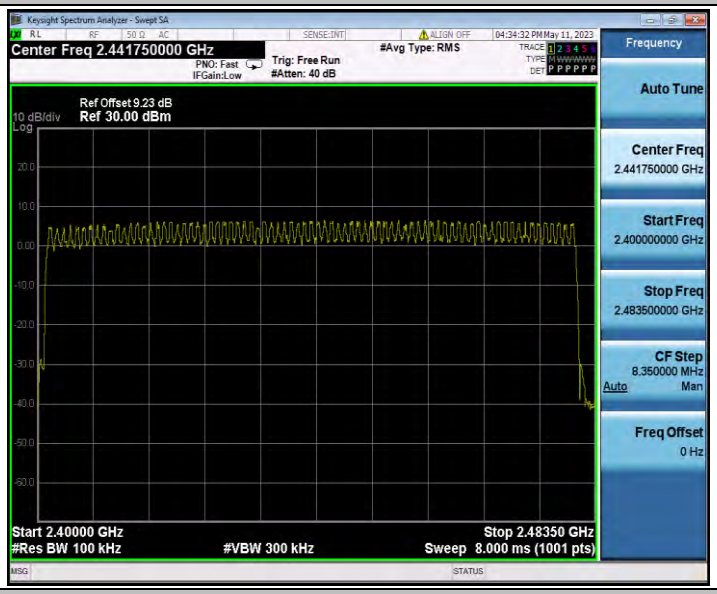
Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

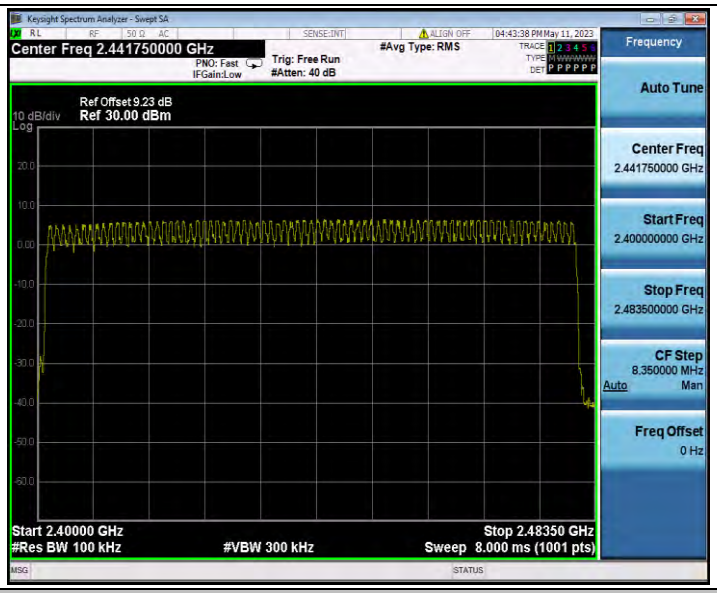
Test Graphs



DH1_Ant1_Hop



2DH1_Ant1_Hop



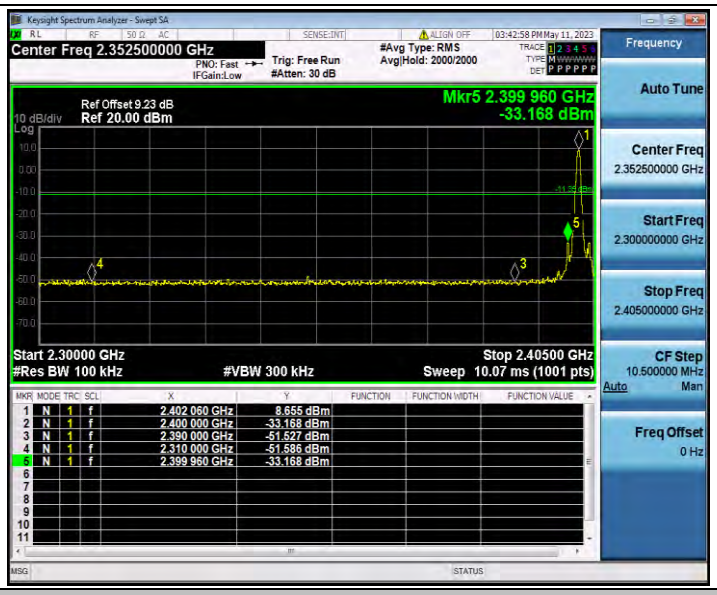
3DH1_Ant1_Hop

Appendix A.7: Band edge measurements

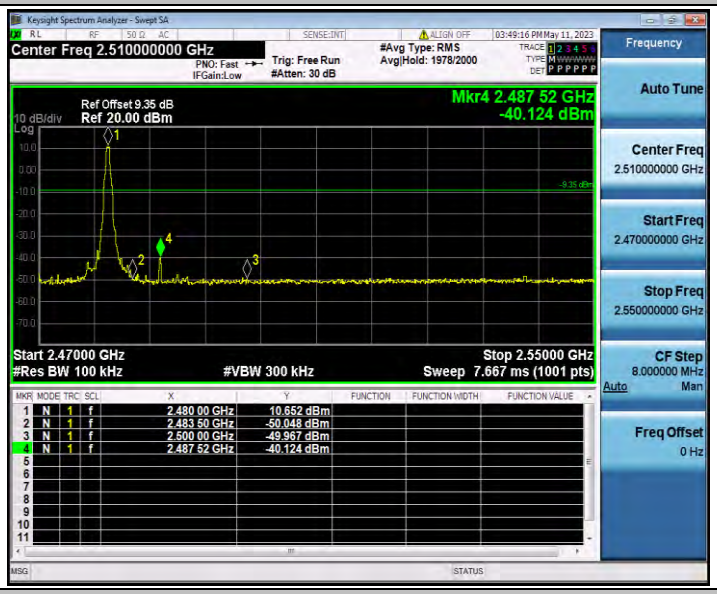
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.66	-33.17	≤-11.35	PASS
		High	2480	10.65	-40.12	≤-9.35	PASS
		Low	Hop_2402	8.02	-49.38	≤-11.98	PASS
		High	Hop_2480	10.65	-47.78	≤-9.35	PASS
2DH1	Ant1	Low	2402	5.06	-37.95	≤-14.94	PASS
		High	2480	6.17	-40.67	≤-13.83	PASS
		Low	Hop_2402	4.98	-49.46	≤-15.03	PASS
		High	Hop_2480	5.67	-48.46	≤-14.33	PASS
3DH1	Ant1	Low	2402	4.96	-37.39	≤-15.04	PASS
		High	2480	6.20	-40.74	≤-13.8	PASS
		Low	Hop_2402	4.79	-49.6	≤-15.21	PASS
		High	Hop_2480	5.75	-48.28	≤-14.25	PASS

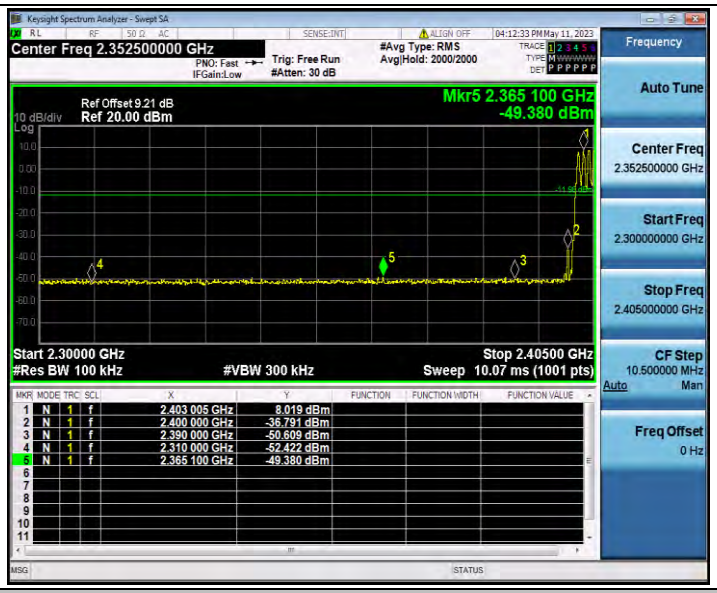
Test Graphs



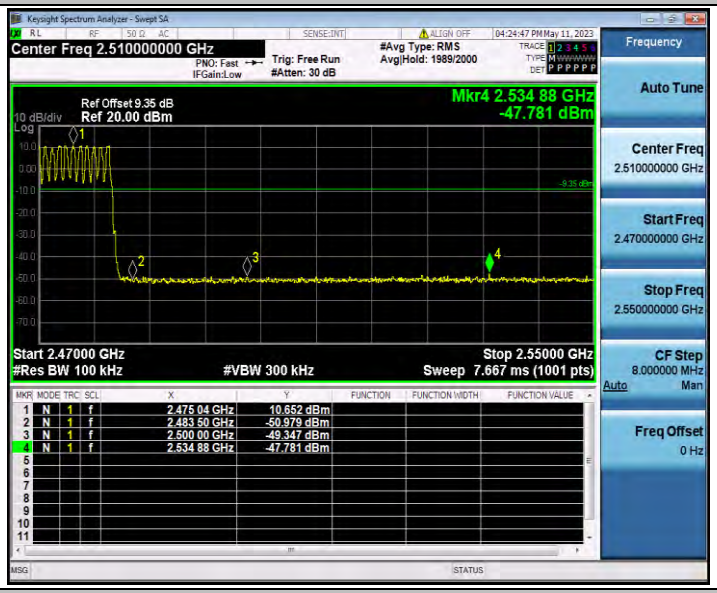
DH1_Ant1_Low_2402



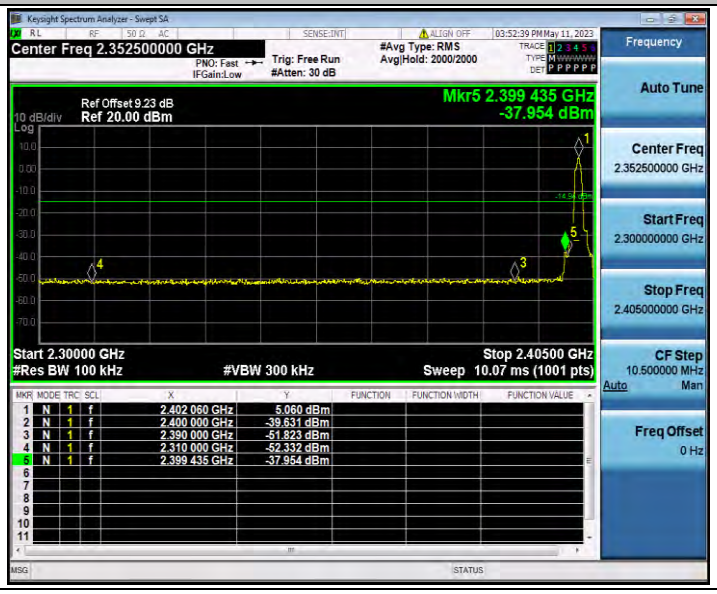
DH1_Ant1_High_2480



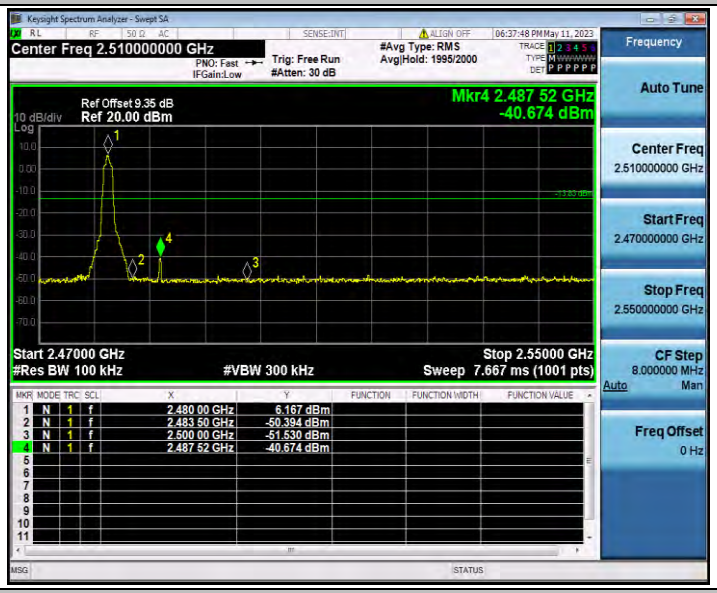
DH1_Ant1_Low_Hop_2402



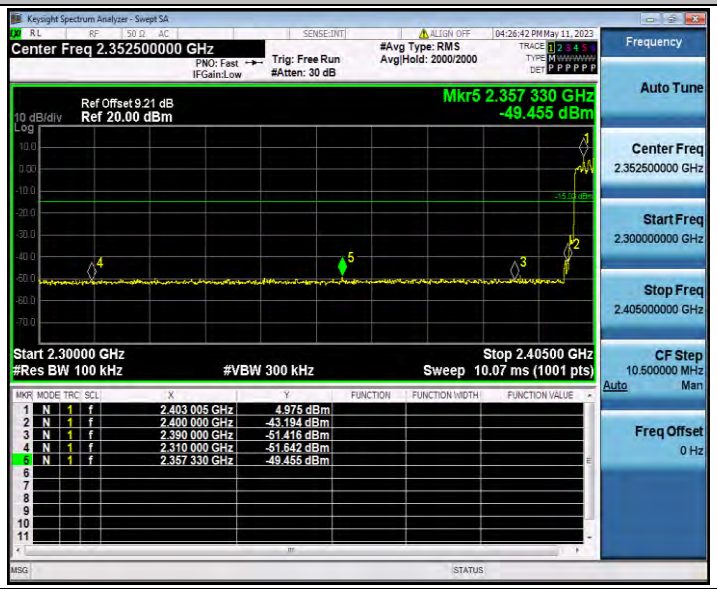
DH1_Ant1_High_Hop_2480



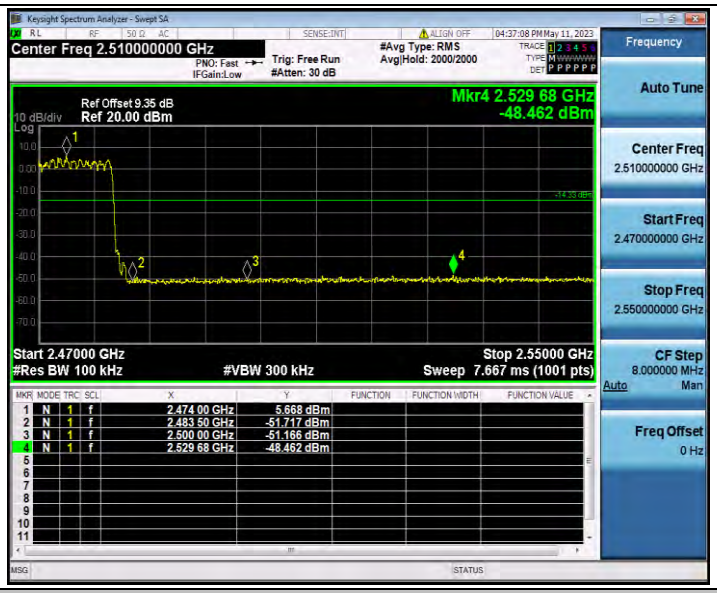
2DH1_Ant1_Low_2402



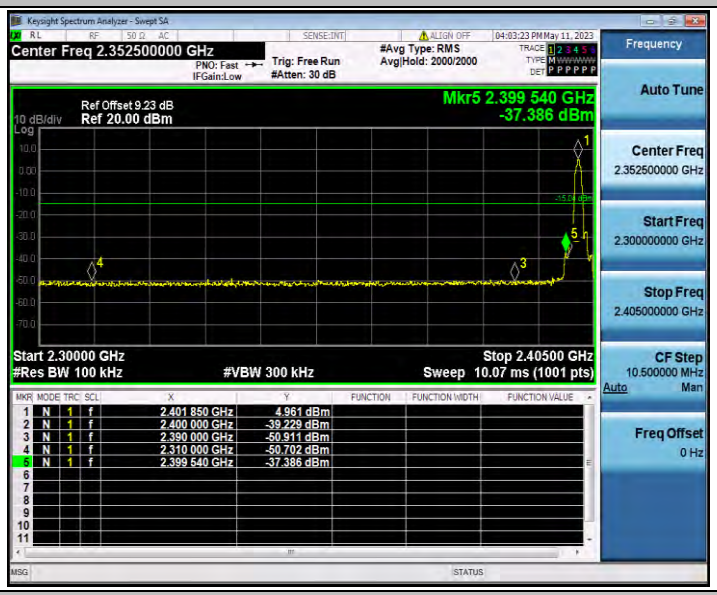
2DH1_Ant1_High_2480



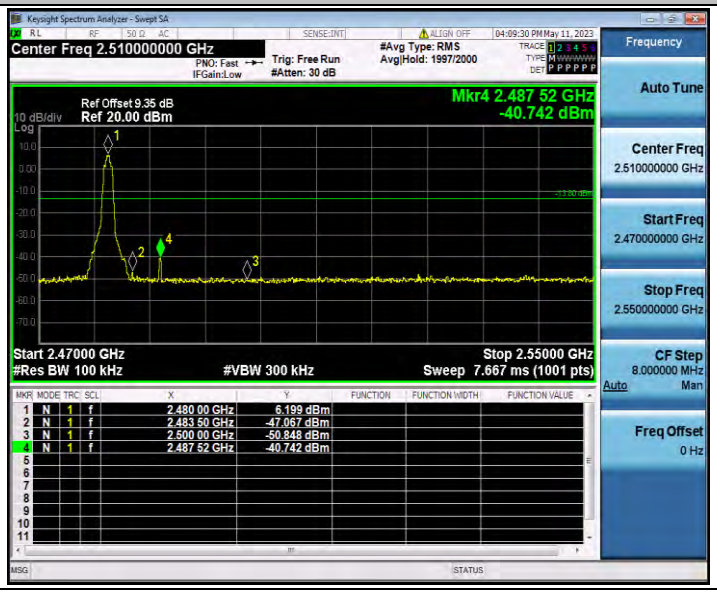
2DH1_Ant1_Low_Hop_2402



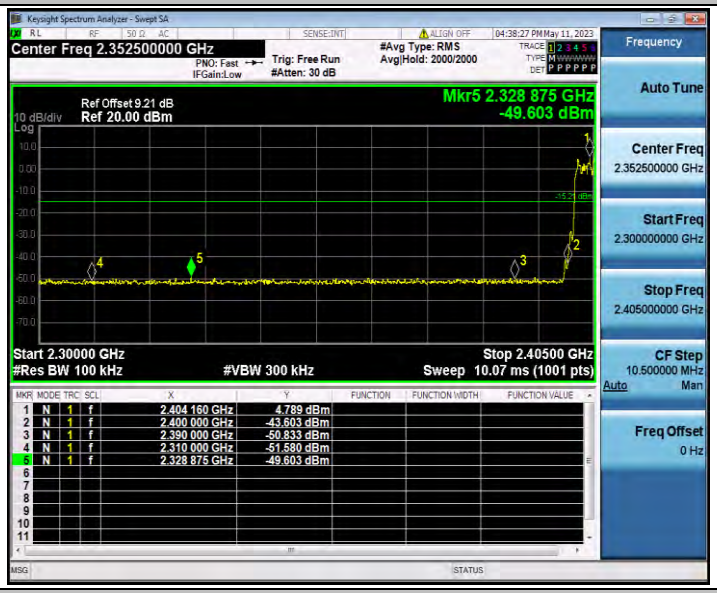
2DH1_Ant1_High_Hop_2480



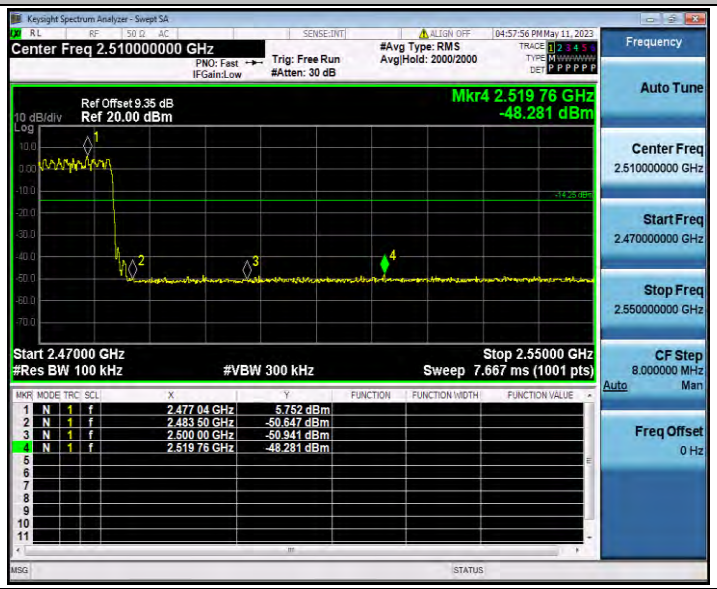
3DH1_Ant1_Low_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

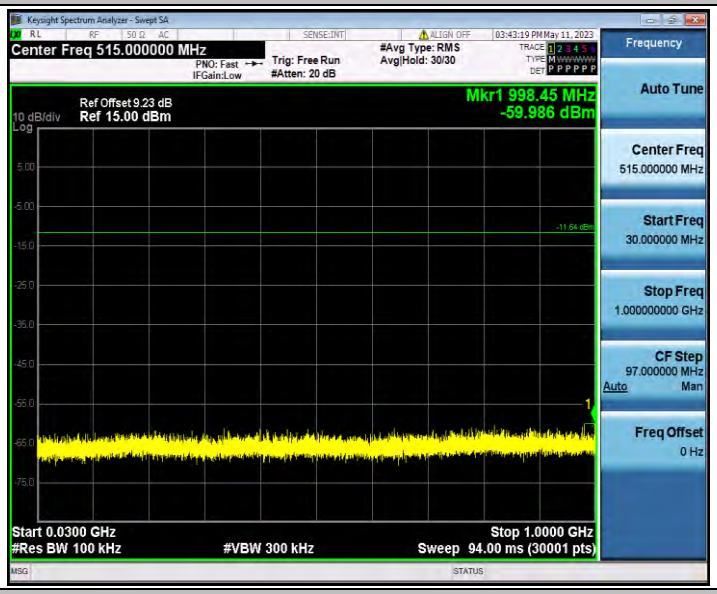
Appendix A.8: Conducted Spurious Emission

Test Result

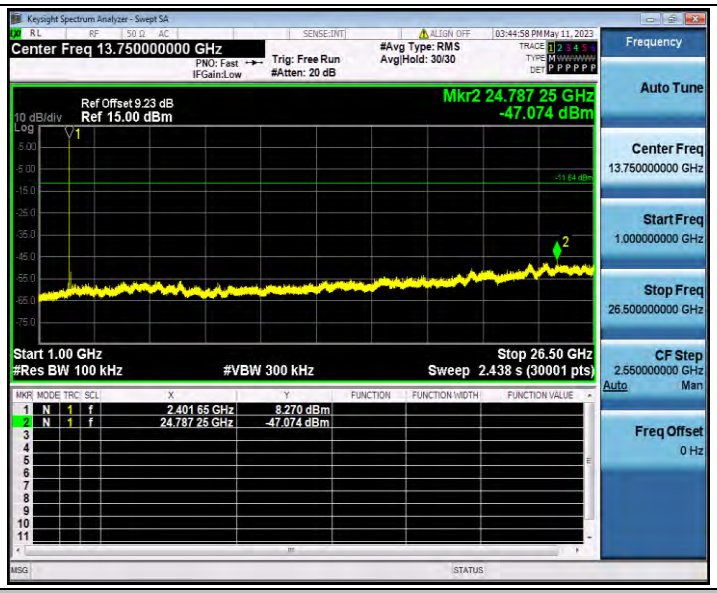
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	8.36	8.36	---	PASS
			30~1000	8.36	-59.99	≤-11.64	PASS
			1000~26500	8.36	-47.07	≤-11.64	PASS
		2441	Reference	10.03	10.03	---	PASS
			30~1000	10.03	-59.43	≤-9.97	PASS
			1000~26500	10.03	-47.61	≤-9.97	PASS
		2480	Reference	10.33	10.33	---	PASS
			30~1000	10.33	-59.74	≤-9.67	PASS
			1000~26500	10.33	-47.29	≤-9.67	PASS
2DH1	Ant1	2402	Reference	4.81	4.81	---	PASS
			30~1000	4.81	-60.27	≤-15.19	PASS
			1000~26500	4.81	-47.35	≤-15.19	PASS
		2441	Reference	6.31	6.31	---	PASS
			30~1000	6.31	-60.39	≤-13.69	PASS
			1000~26500	6.31	-47.68	≤-13.69	PASS
		2480	Reference	5.97	5.97	---	PASS
			30~1000	5.97	-60.54	≤-14.03	PASS
			1000~26500	5.97	-46.88	≤-14.03	PASS
3DH1	Ant1	2402	Reference	4.85	4.85	---	PASS
			30~1000	4.85	-60.63	≤-15.15	PASS
			1000~26500	4.85	-48.12	≤-15.15	PASS
		2441	Reference	6.32	6.32	---	PASS
			30~1000	6.32	-60.42	≤-13.68	PASS
			1000~26500	6.32	-47.23	≤-13.68	PASS
		2480	Reference	5.91	5.91	---	PASS
			30~1000	5.91	-60.82	≤-14.09	PASS
			1000~26500	5.91	-48.01	≤-14.09	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



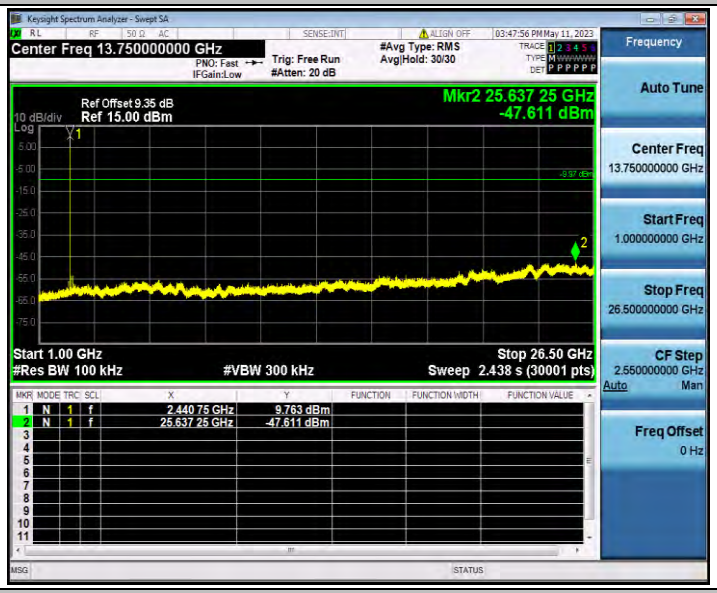
DH1_Ant1_2402_30~1000



DH1_Ant1_2402_1000~26500

DH1_Ant1_2441_0~Reference

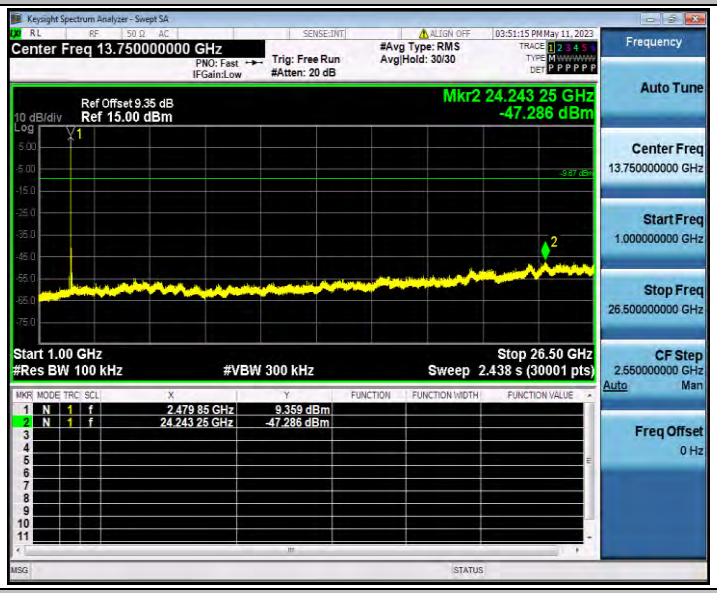
DH1_Ant1_2441_30~1000



DH1_Ant1_2441_1000~26500

DH1_Ant1_2480_0~Reference

DH1_Ant1_2480_30~1000



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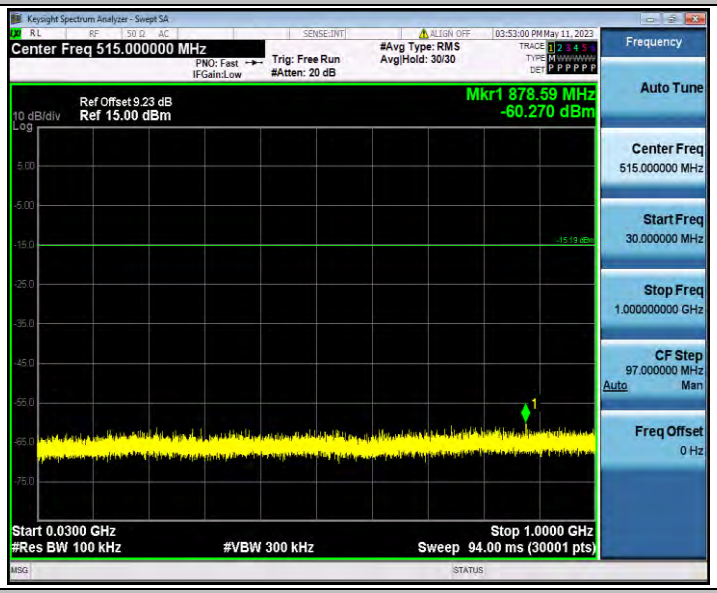
2DH1_Ant1_2402_0~Reference



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2DH1_Ant1_2402_1000~26500

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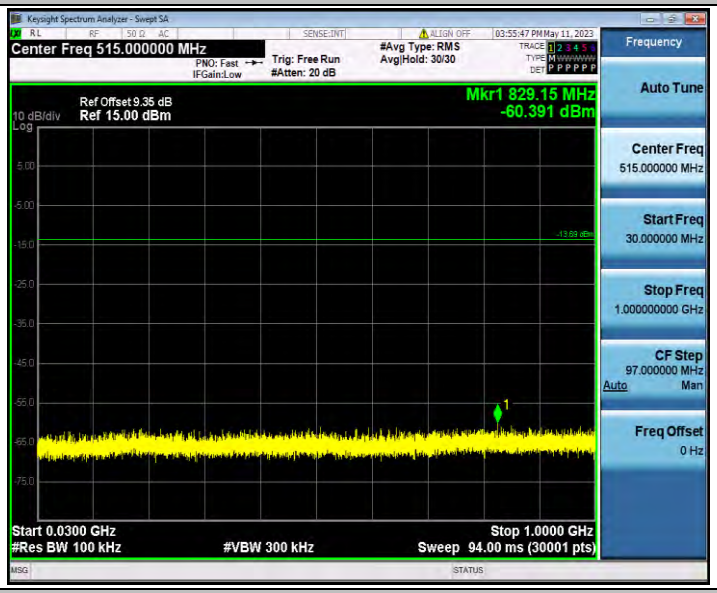

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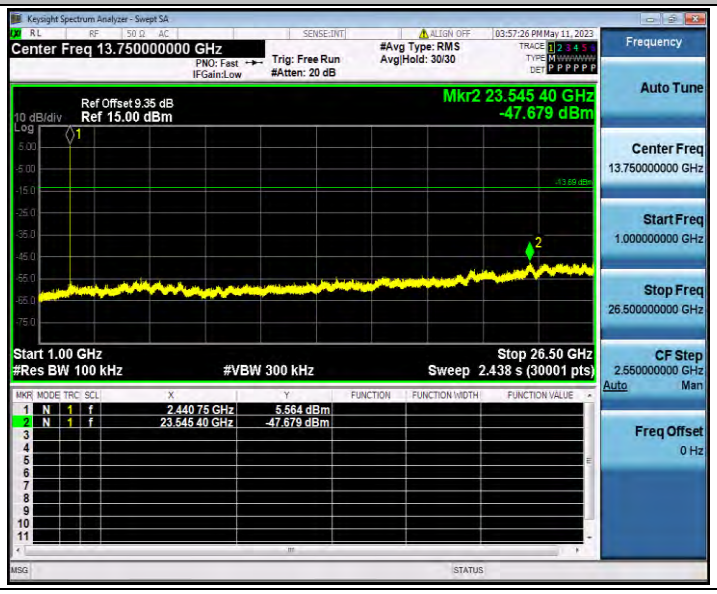
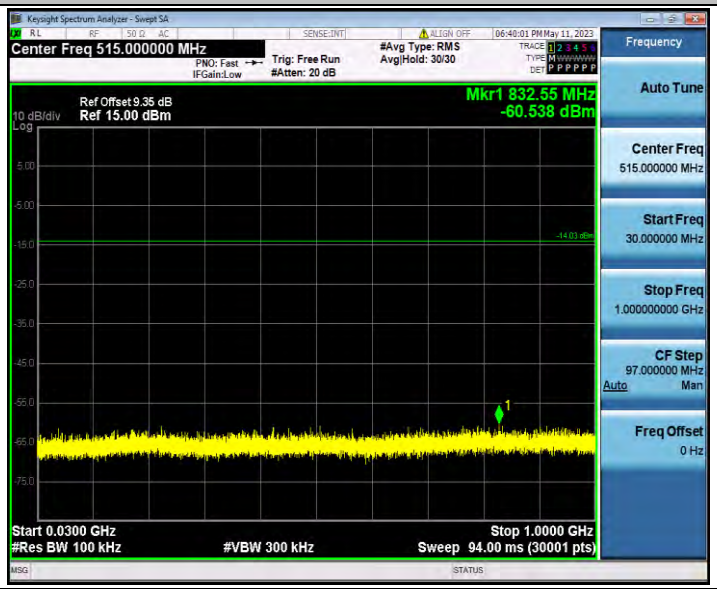


2DH1_Ant1_2441_1000~26500

2DH1_Ant1_2480_0~Reference



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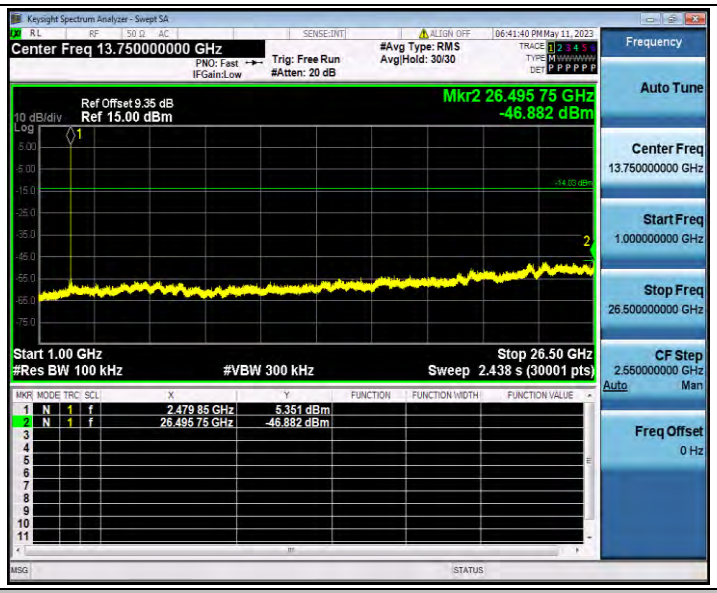
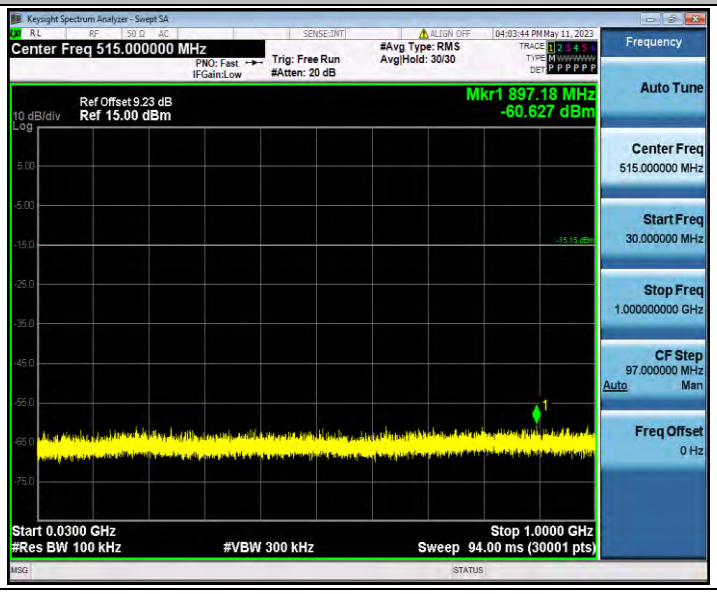


2DH1_Ant1_2480_1000~26500

3DH1_Ant1_2402_0~Reference



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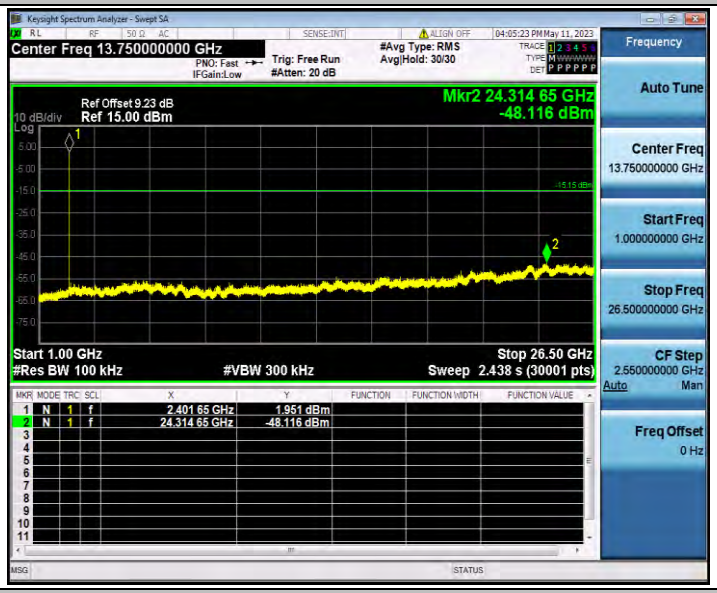
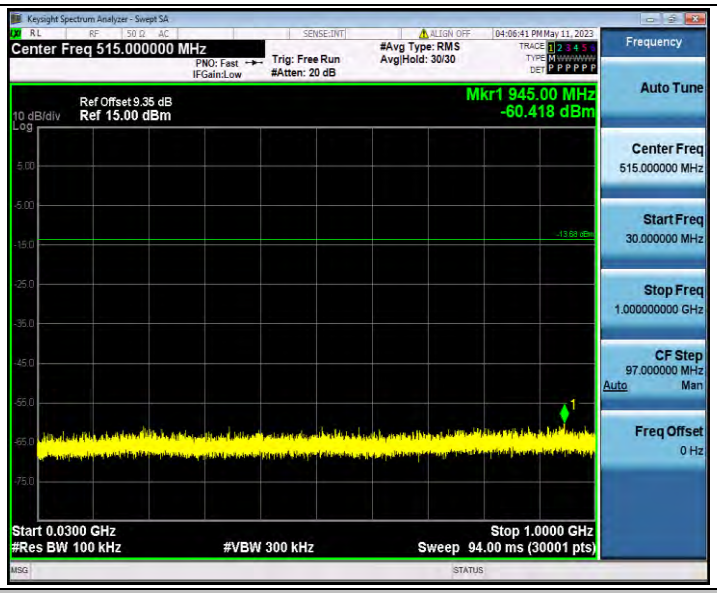


3DH1_Ant1_2402_1000~26500

3DH1_Ant1_2441_0~Reference



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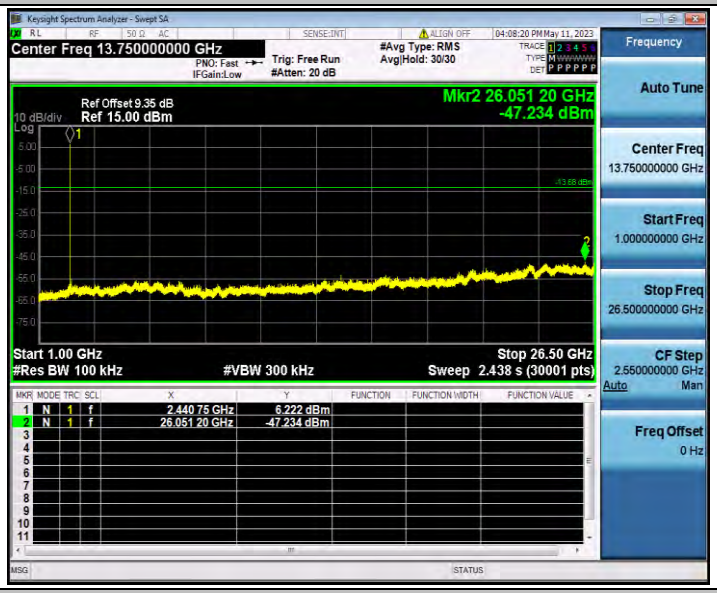
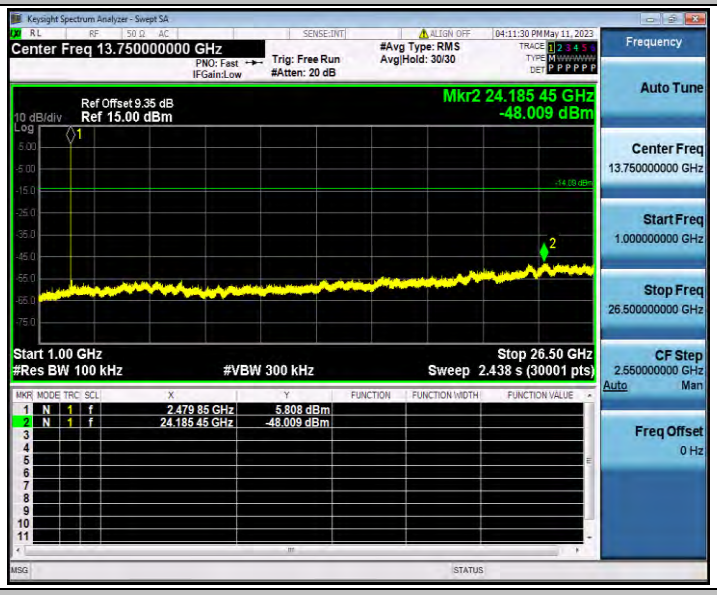


3DH1_Ant1_2441_1000~26500

3DH1_Ant1_2480_0~Reference

3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500