

Case No. : GTS20221010004-1-2	
Ambient Condition: 26 °C, 47 %RH,	
Test Date: 2022.10.19	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	0.780	2401.613	2402.393	---	---
		2441	0.786	2440.619	2441.405	---	---
		2480	0.798	2479.607	2480.405	---	---
2DH1	Ant1	2402	1.203	2401.403	2402.606	---	---
		2441	1.218	2440.388	2441.606	---	---
		2480	1.260	2479.376	2480.636	---	---
3DH1	Ant1	2402	1.212	2401.421	2402.633	---	---
		2441	1.224	2440.409	2441.633	---	---
		2480	1.227	2479.406	2480.633	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2D11_Ant1_2402



2D11_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



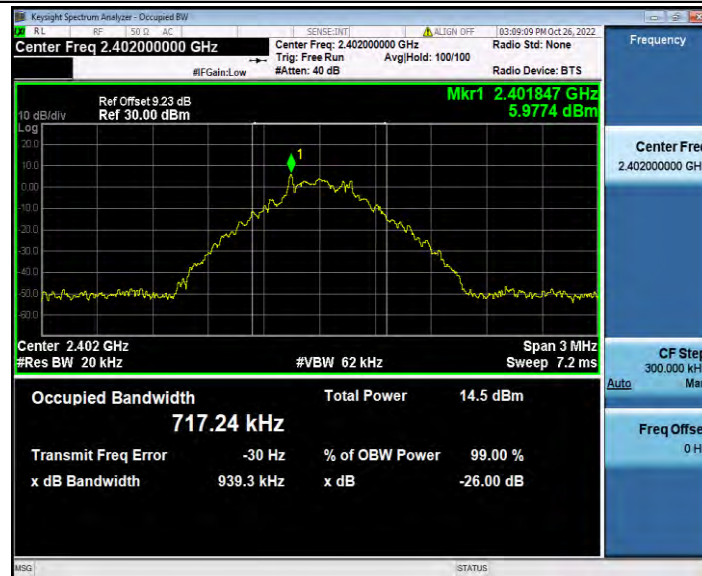
Appendix A.2: Occupied Channel Bandwidth

Test Result

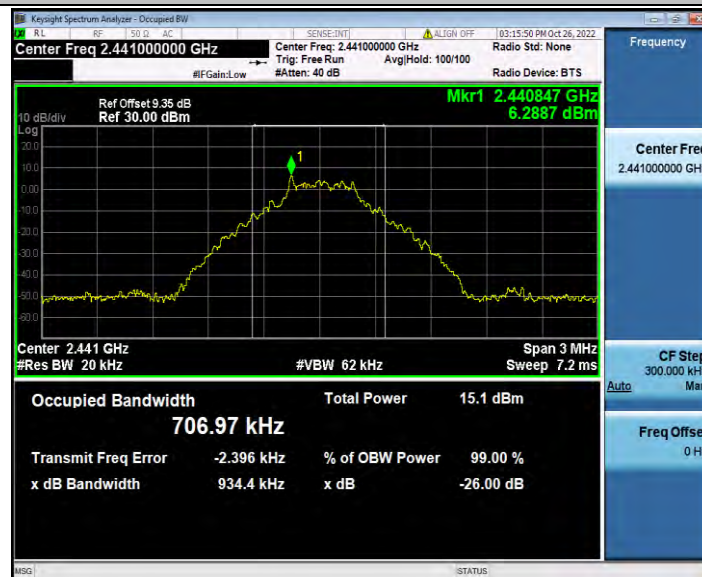
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.71724	2401.641	2402.359	---	---
		2441	0.70697	2440.644	2441.351	---	---
		2480	0.70545	2479.647	2480.352	---	---
2DH1	Ant1	2402	1.1291	2401.440	2402.569	---	---
		2441	1.1331	2440.439	2441.573	---	---
		2480	1.1230	2479.447	2480.570	---	---
3DH1	Ant1	2402	1.1245	2401.454	2402.579	---	---
		2441	1.1274	2440.452	2441.580	---	---
		2480	1.1232	2479.454	2480.577	---	---

Test Graphs

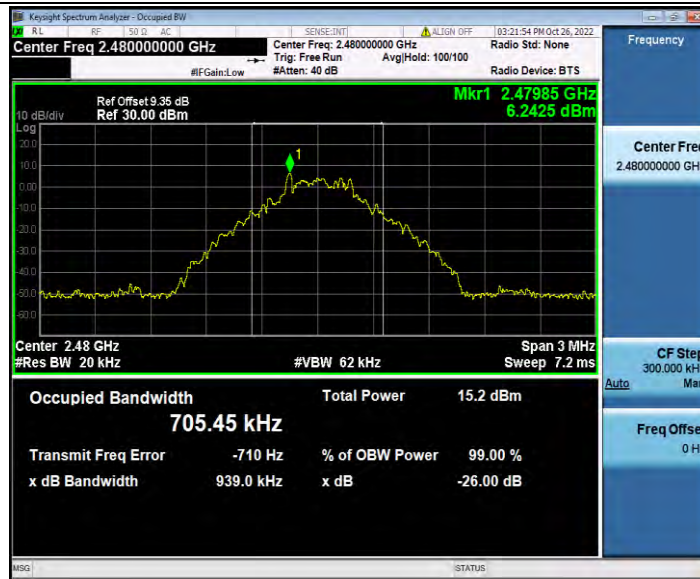
DH1_Ant1_2402



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 Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	8.79	≤20.97	PASS
		2441	9.05	≤20.97	PASS
		2480	9.29	≤20.97	PASS
2DH1	Ant1	2402	8.81	≤20.97	PASS
		2441	8.97	≤20.97	PASS
		2480	9.2	≤20.97	PASS
3DH1	Ant1	2402	8.75	≤20.97	PASS
		2441	9.08	≤20.97	PASS
		2480	9.23	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.154	≥ 0.798	PASS
		Hop_2441	0.994	≥ 0.798	PASS
		Hop_2480	0.852	≥ 0.798	PASS
2DH1	Ant1	Hop_2402	0.986	≥ 0.840	PASS
		Hop_2441	0.996	≥ 0.840	PASS
		Hop_2480	0.998	≥ 0.840	PASS
3DH1	Ant1	Hop_2402	1.016	≥ 0.818	PASS
		Hop_2441	1.192	≥ 0.818	PASS
		Hop_2480	1.006	≥ 0.818	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

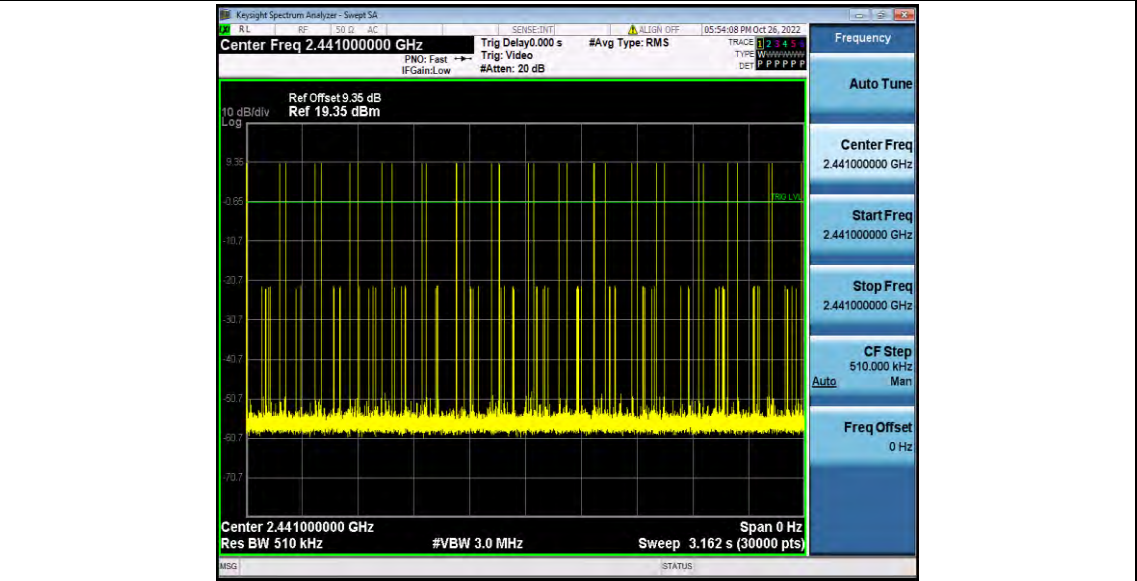


Appendix A.5: Time of occupancy

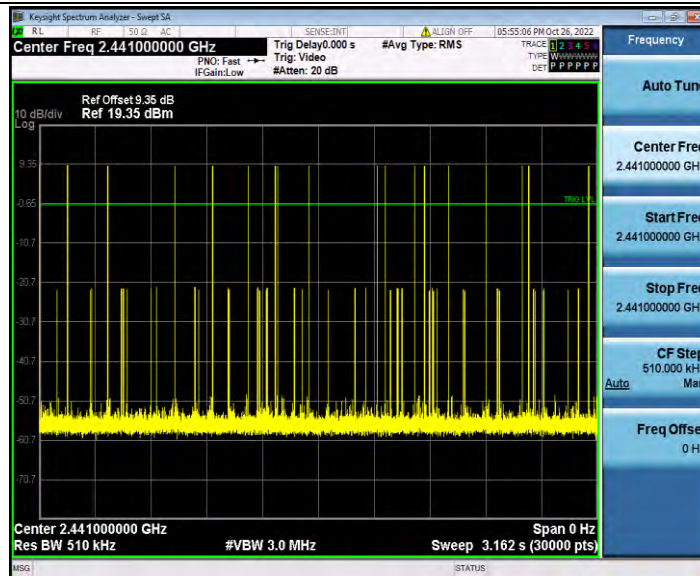
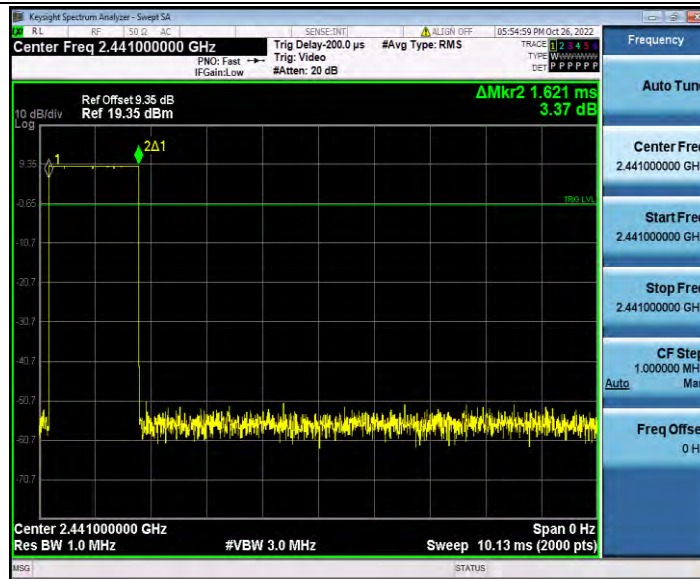
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.36	330	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.62	180	0.292	≤0.4	PASS
DH5	Ant1	Hop	2.87	40	0.115	≤0.4	PASS
2DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	140	0.228	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.62	100	0.162	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

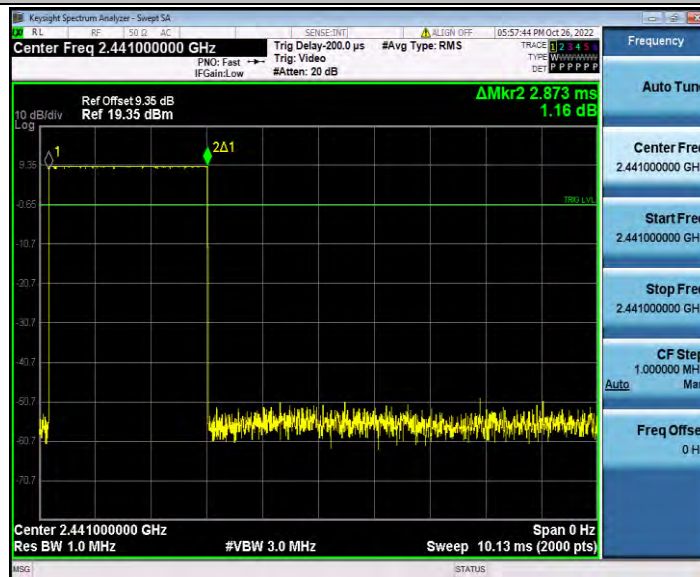
DH1_Ant1_Hop

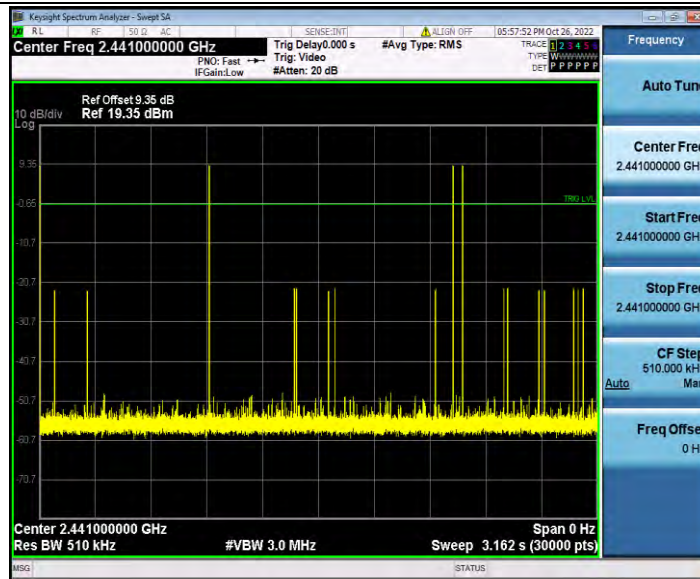


DH3_Ant1_Hop	
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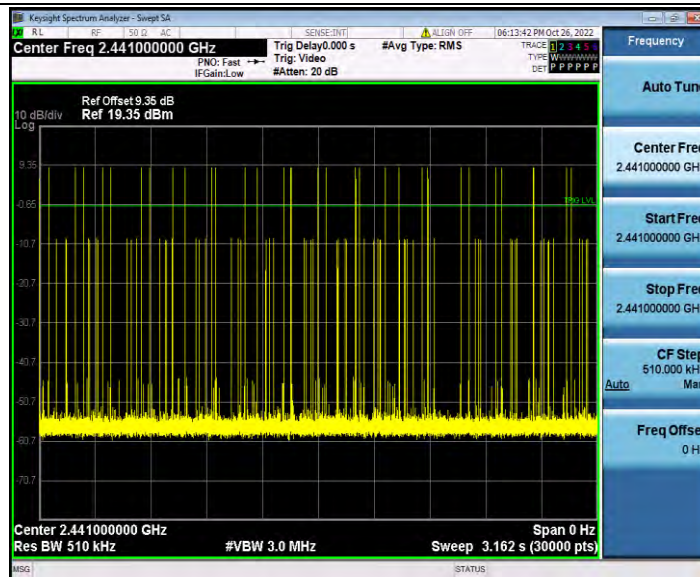
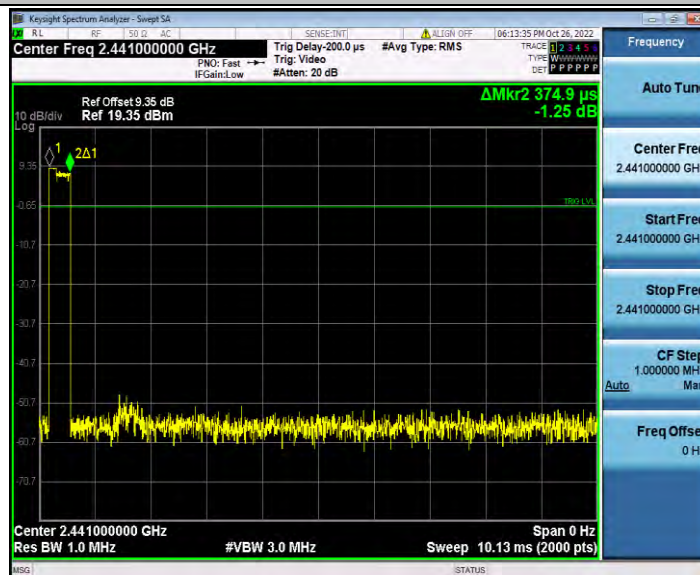


DH5_Ant1_Hop

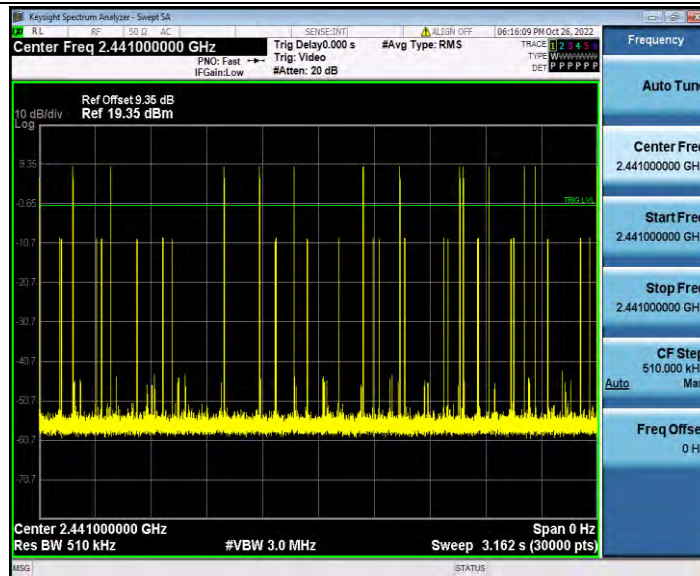
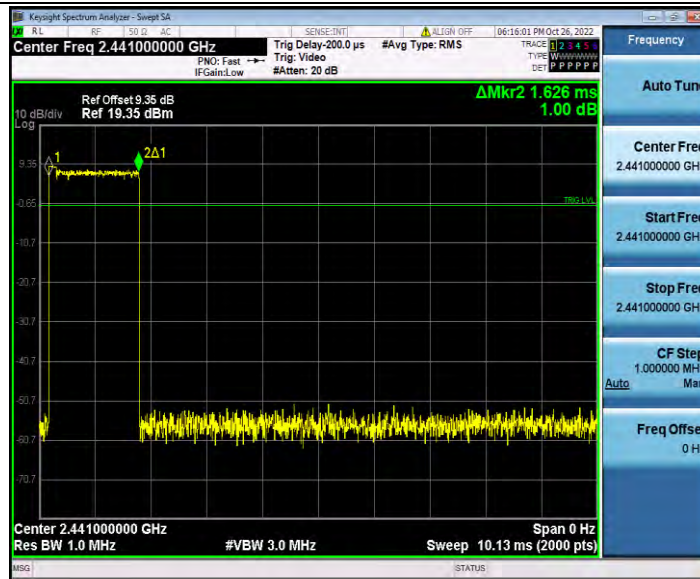




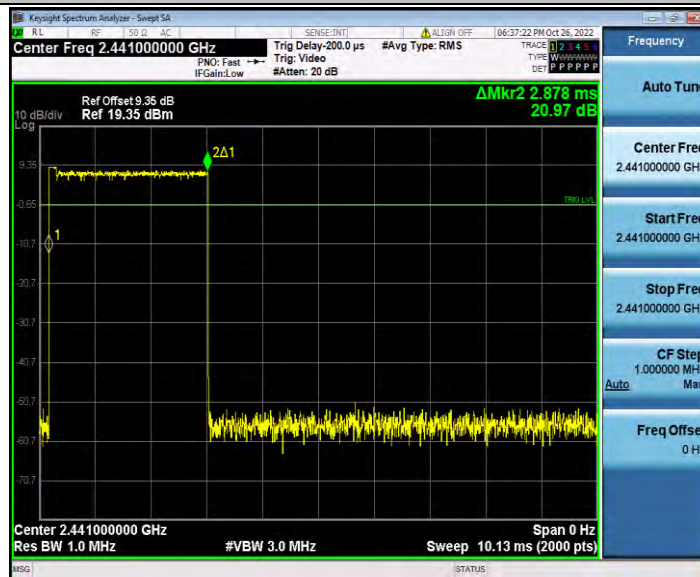
2DH1_Ant1_Hop

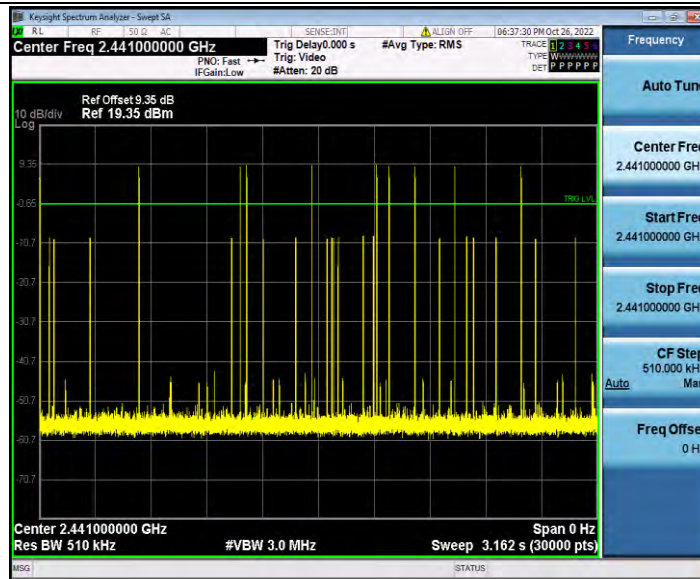


2DH3_Ant1_Hop

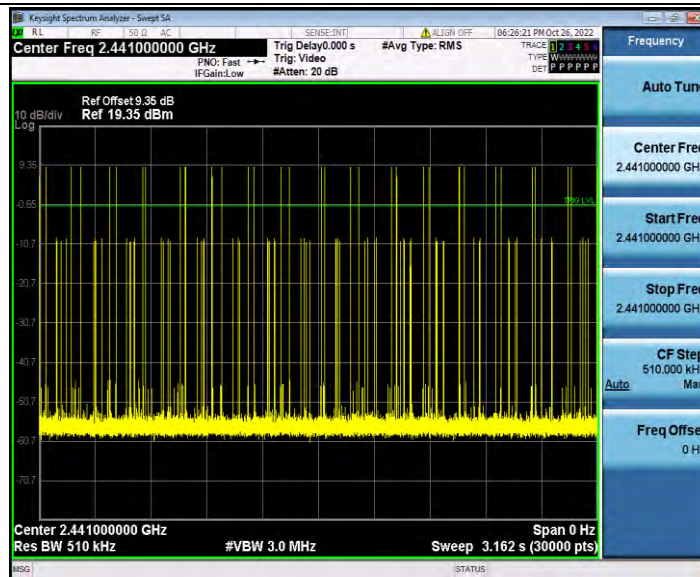
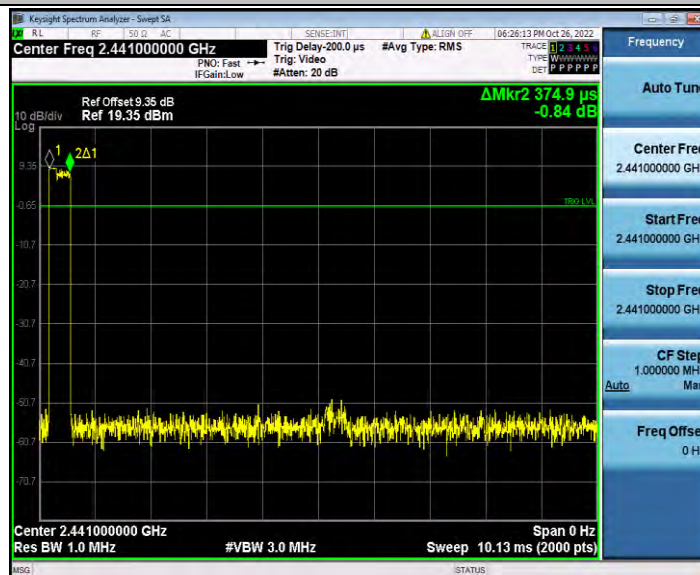


2DH5_Ant1_Hop

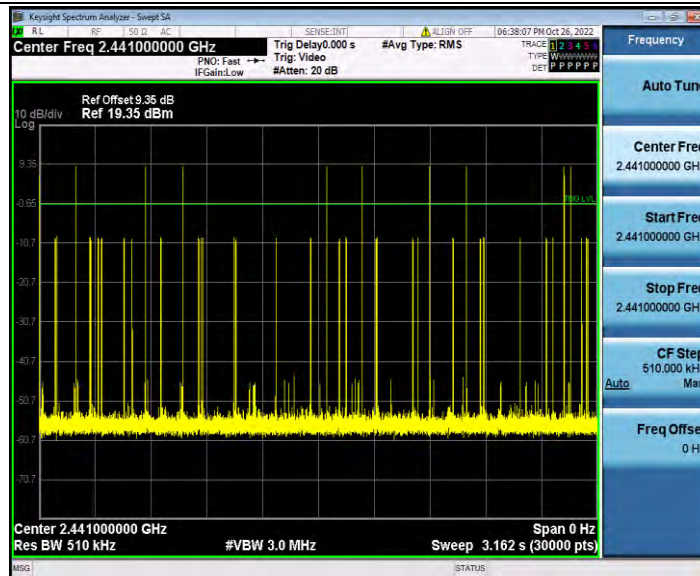
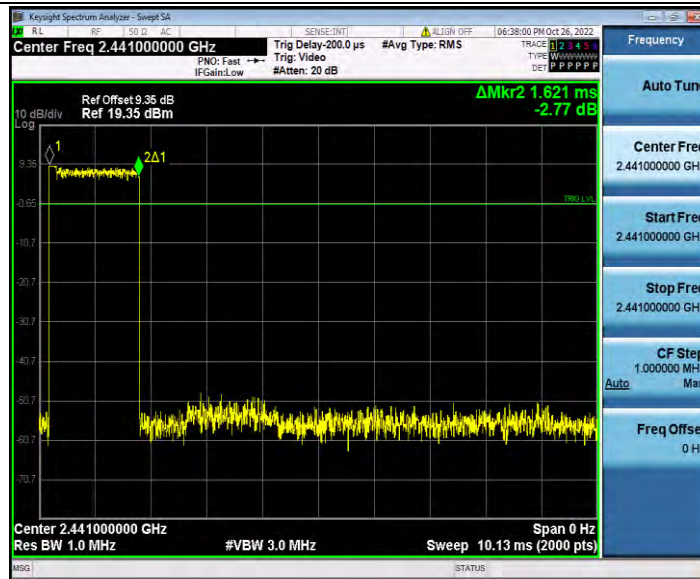




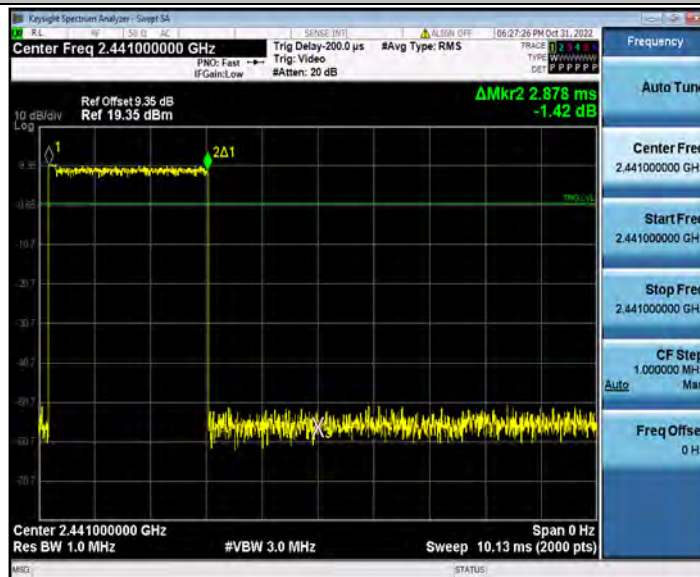
3DH1_Ant1_Hop

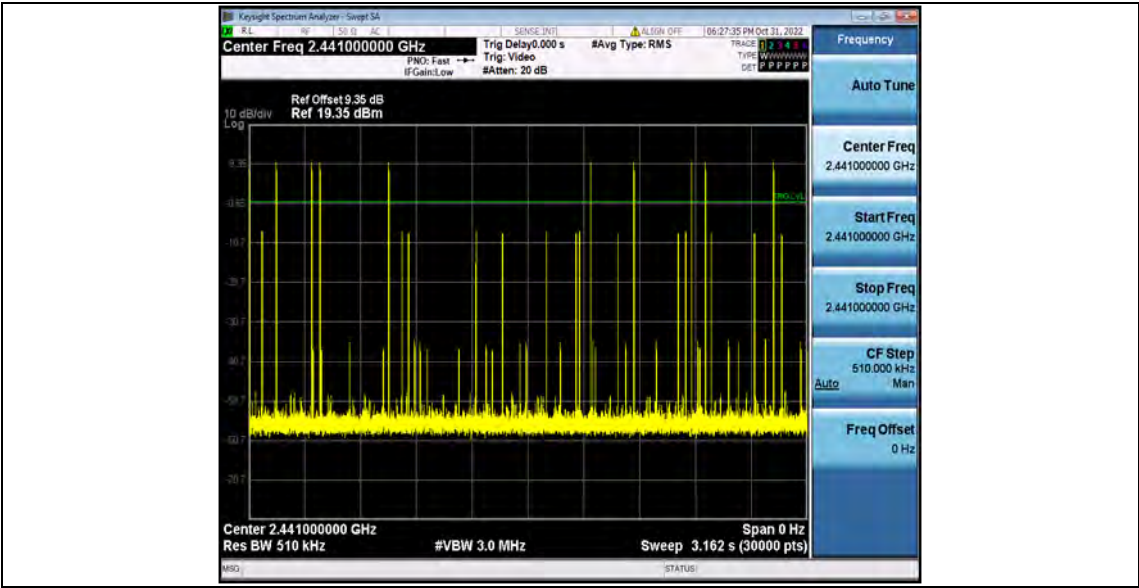


3DH3_Ant1_Hop



3DH5_Ant1_Hop



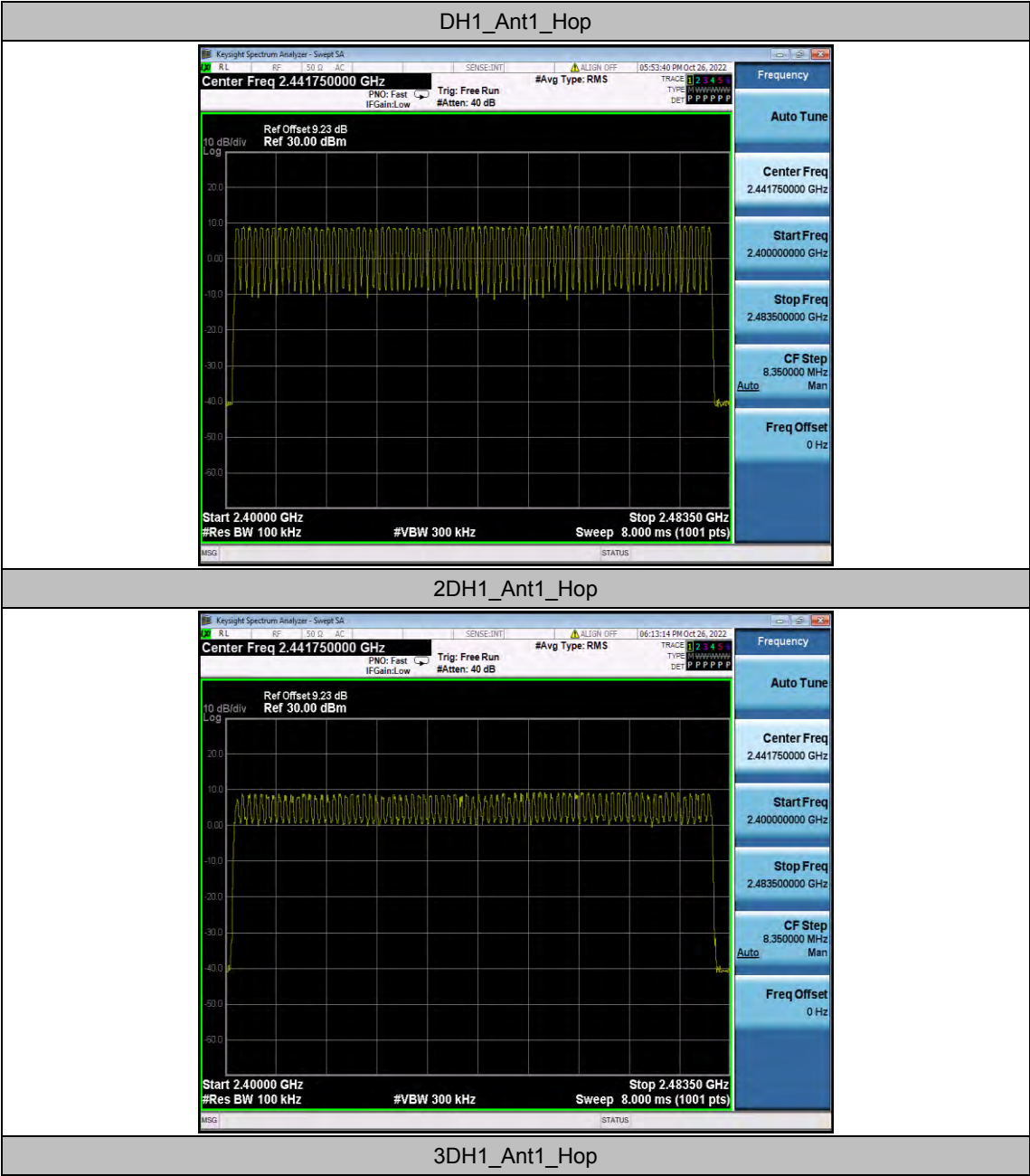


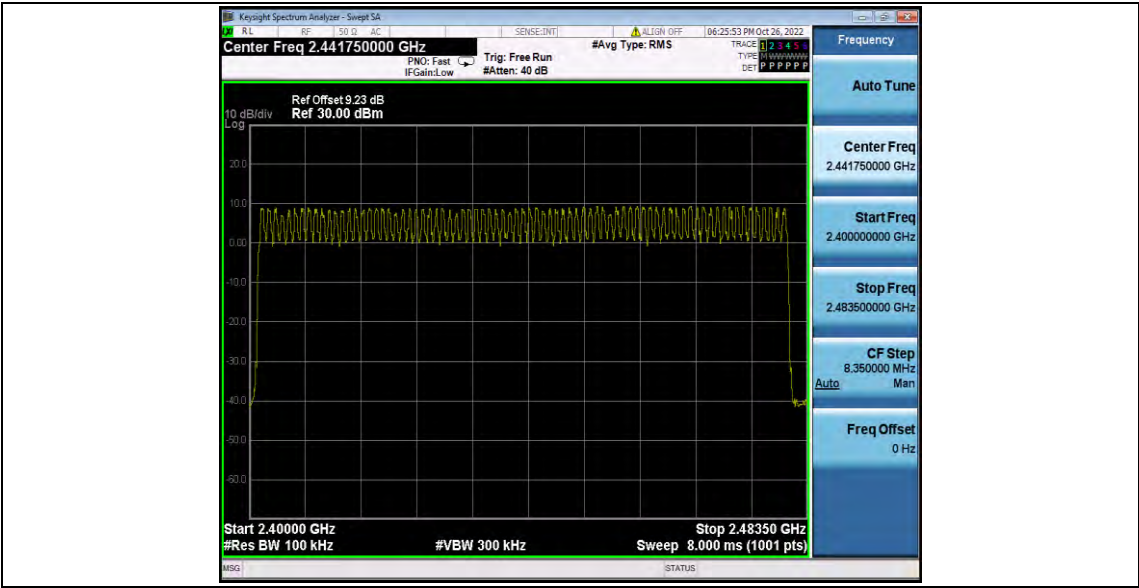
Appendix A.6: Number of hopping channels

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





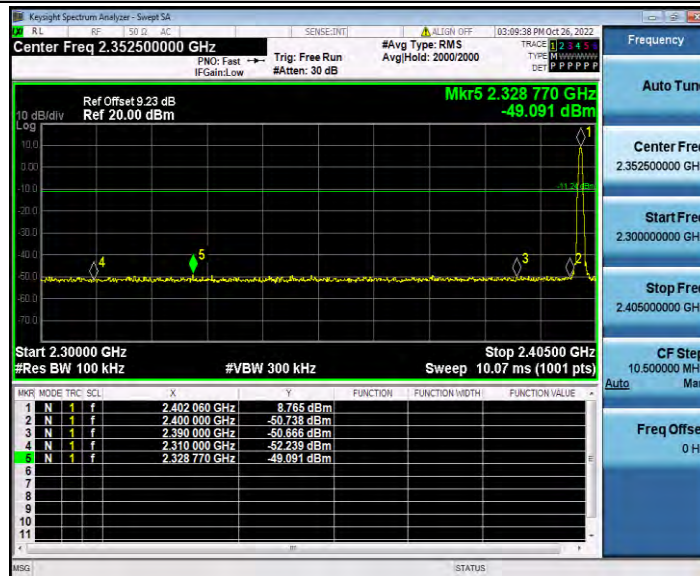
Appendix A.7: Band edge measurements

Test Result

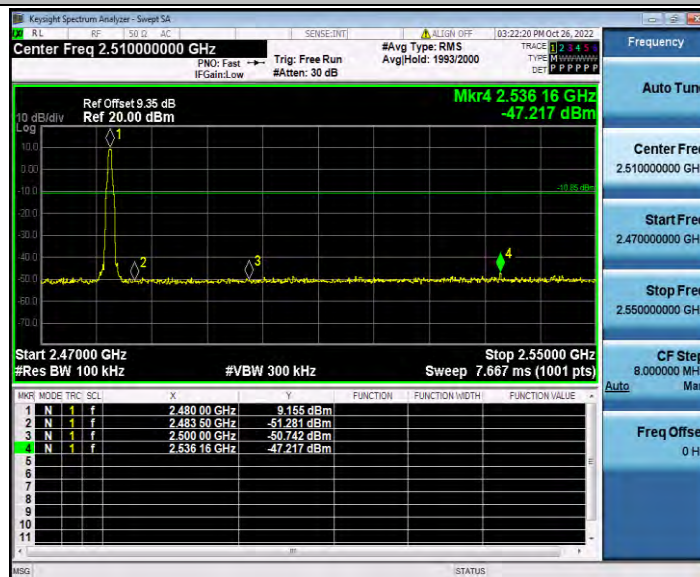
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.77	-49.09	≤-11.24	PASS
		High	2480	9.16	-47.22	≤-10.85	PASS
		Low	Hop_2402	8.78	-48.76	≤-11.22	PASS
		High	Hop_2480	9.05	-48.4	≤-10.95	PASS
2DH1	Ant1	Low	2402	8.87	-48.81	≤-11.13	PASS
		High	2480	9.09	-47.87	≤-10.91	PASS
		Low	Hop_2402	8.56	-48.2	≤-11.44	PASS
		High	Hop_2480	9.15	-47.64	≤-10.85	PASS
3DH1	Ant1	Low	2402	8.46	-49.15	≤-11.54	PASS
		High	2480	9.07	-48.68	≤-10.93	PASS
		Low	Hop_2402	8.29	-48.96	≤-11.71	PASS
		High	Hop_2480	9.10	-48.25	≤-10.9	PASS

Test Graphs

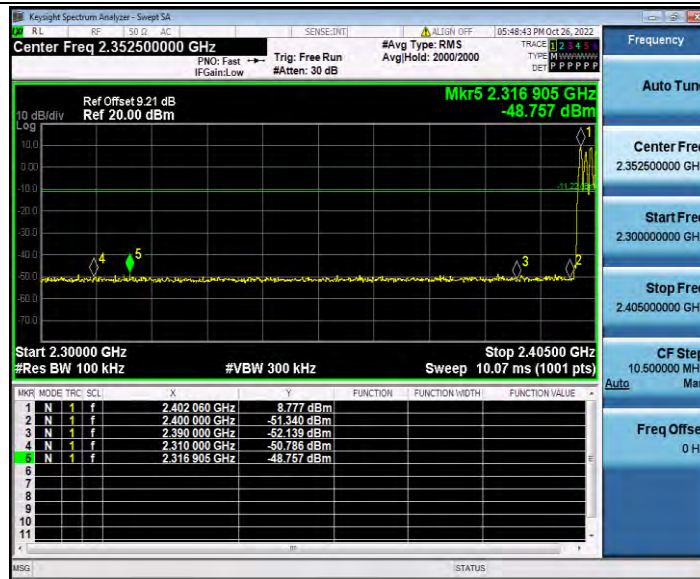
DH1_Ant1_Low_2402



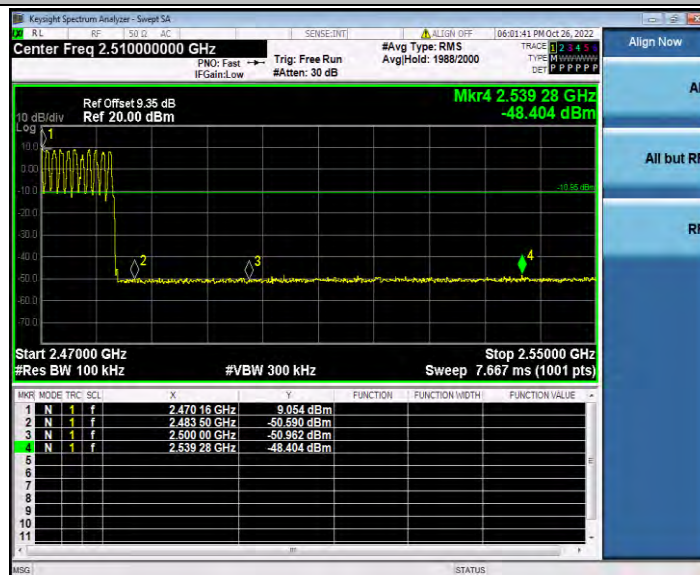
DH1_Ant1_High_2480



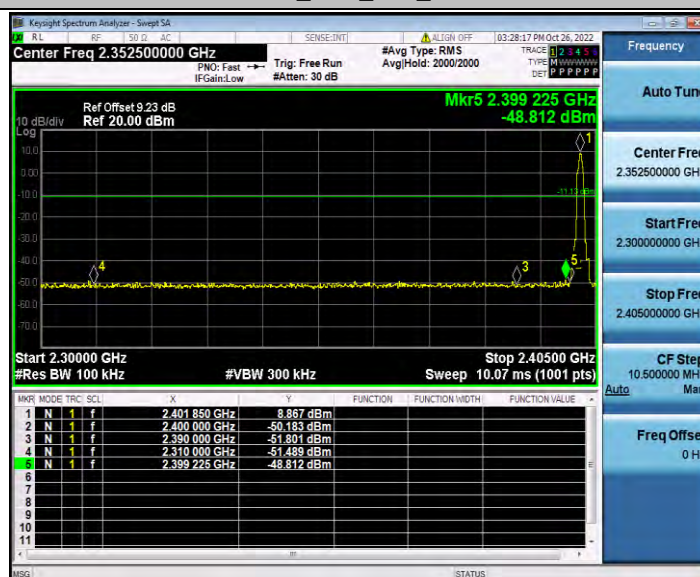
DH1_Ant1_Low_Hop_2402



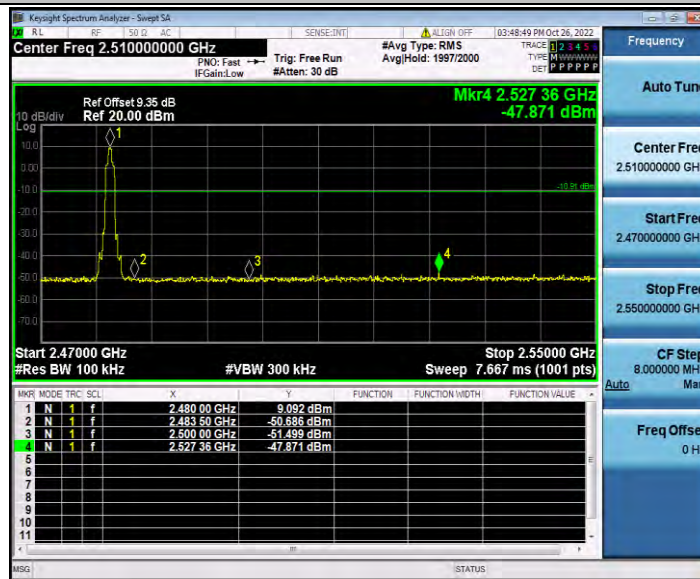
DH1_Ant1_High_Hop_2480



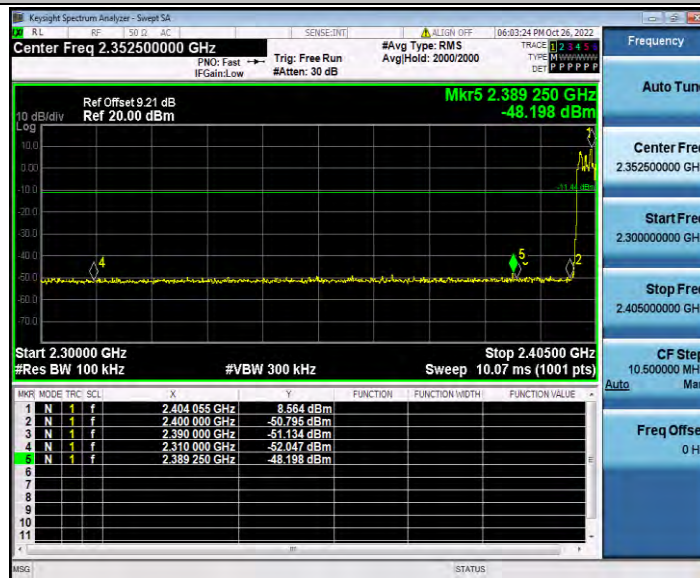
2DH1_Ant1_Low_2402



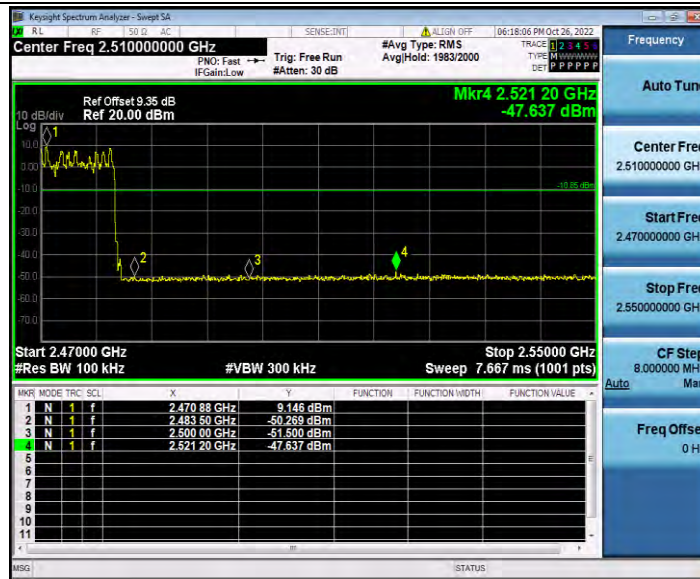
2DH1_Ant1_High_2480



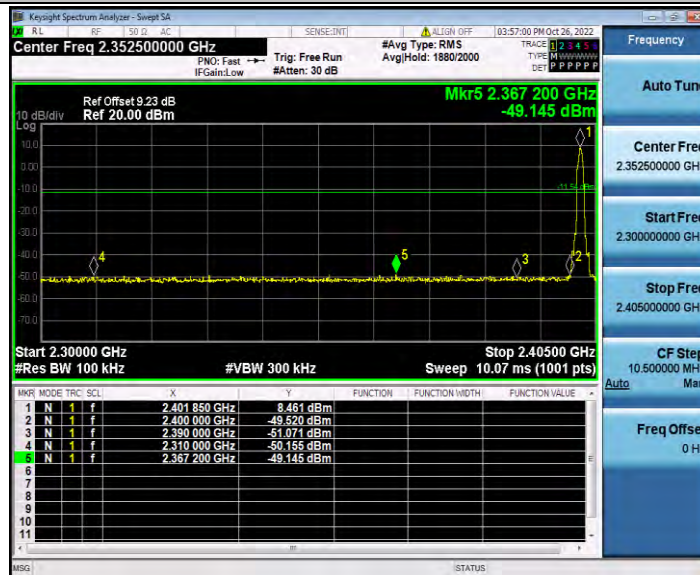
2DH1_Ant1_Low_Hop_2402



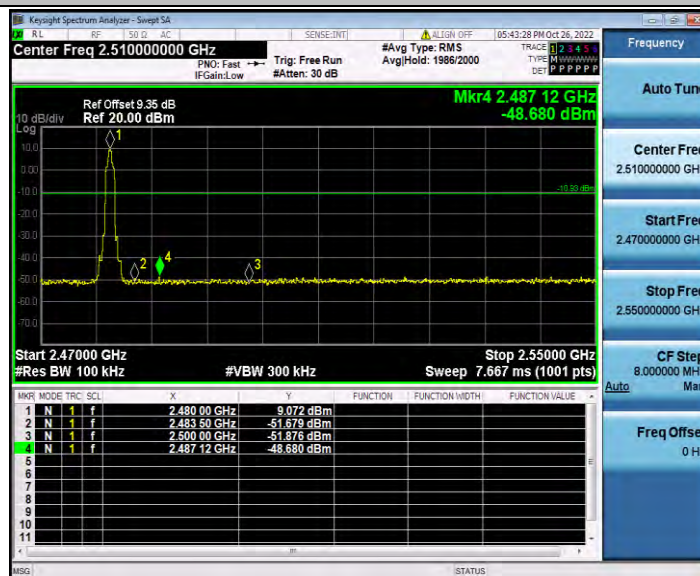
2DH1_Ant1_High_Hop_2480



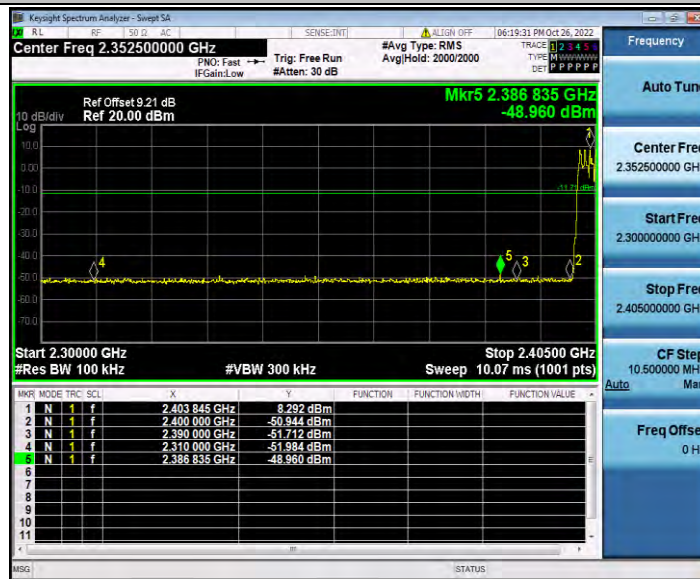
3DH1_Ant1_Low_2402



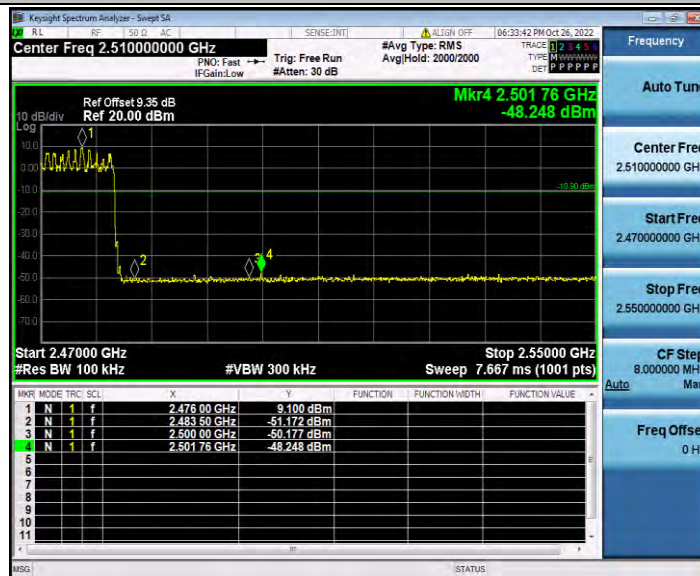
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

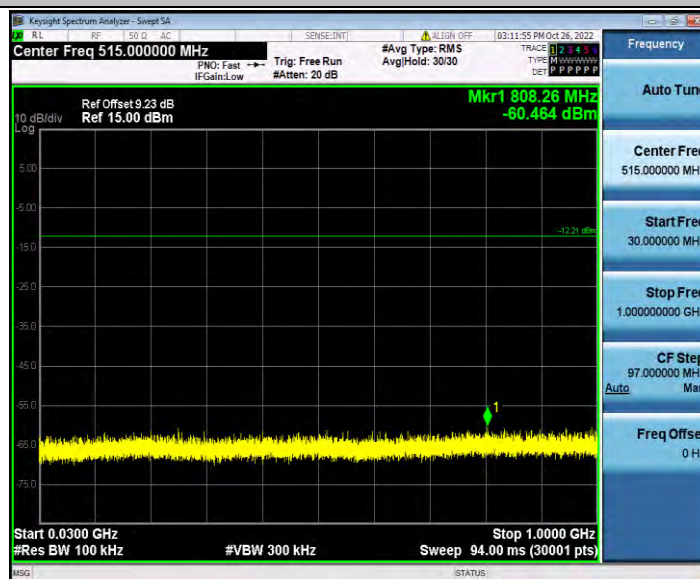
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.79	7.79	---	PASS
			30~1000	7.79	-60.46	≤-12.21	PASS
			1000~26500	7.79	-47.55	≤-12.21	PASS
		2441	Reference	8.17	8.17	---	PASS
			30~1000	8.17	-60.06	≤-11.83	PASS
			1000~26500	8.17	-47.37	≤-11.83	PASS
		2480	Reference	8.62	8.62	---	PASS
			30~1000	8.62	-60.16	≤-11.38	PASS
			1000~26500	8.62	-47.64	≤-11.38	PASS
2DH1	Ant1	2402	Reference	8.28	8.28	---	PASS
			30~1000	8.28	-60.14	≤-11.72	PASS
			1000~26500	8.28	-46.84	≤-11.72	PASS
		2441	Reference	8.54	8.54	---	PASS
			30~1000	8.54	-60.05	≤-11.46	PASS
			1000~26500	8.54	-47.77	≤-11.46	PASS
		2480	Reference	8.87	8.87	---	PASS
			30~1000	8.87	-59.25	≤-11.13	PASS
			1000~26500	8.87	-47.57	≤-11.13	PASS
3DH1	Ant1	2402	Reference	7.48	7.48	---	PASS
			30~1000	7.48	-59.68	≤-12.52	PASS
			1000~26500	7.48	-47.73	≤-12.52	PASS
		2441	Reference	8.10	8.10	---	PASS
			30~1000	8.10	-60.32	≤-11.9	PASS
			1000~26500	8.10	-47.38	≤-11.9	PASS
		2480	Reference	8.62	8.62	---	PASS
			30~1000	8.62	-59.96	≤-11.38	PASS
			1000~26500	8.62	-47.68	≤-11.38	PASS

Test Graphs

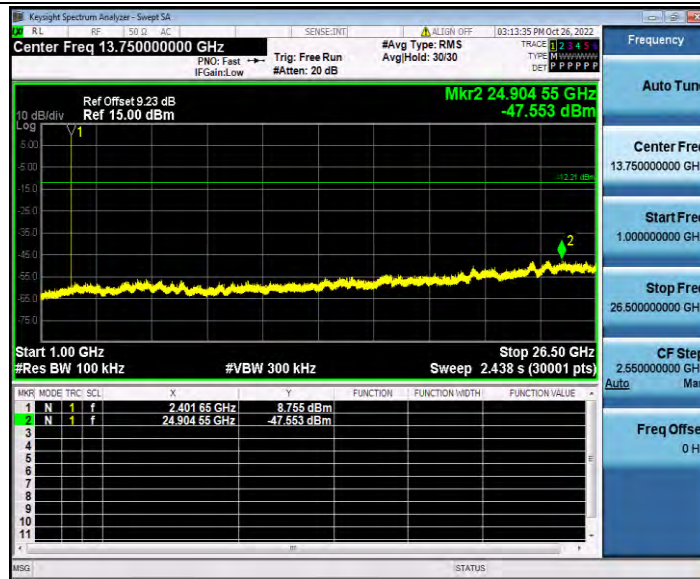
DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



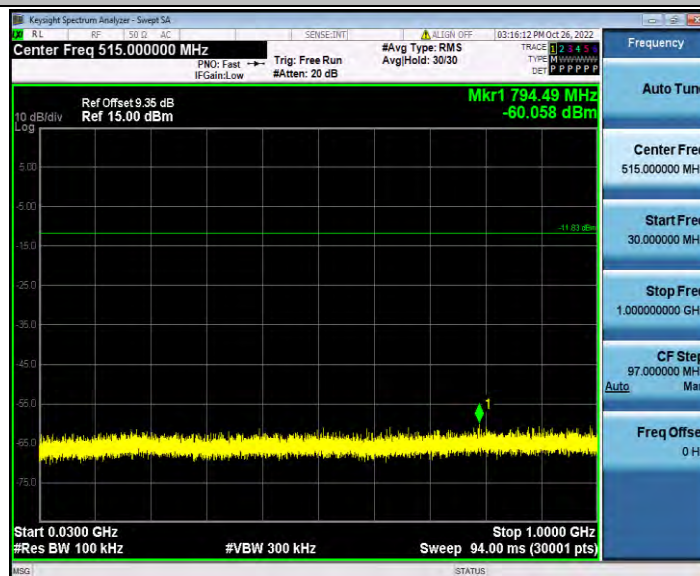
DH1_Ant1_2402_1000~26500



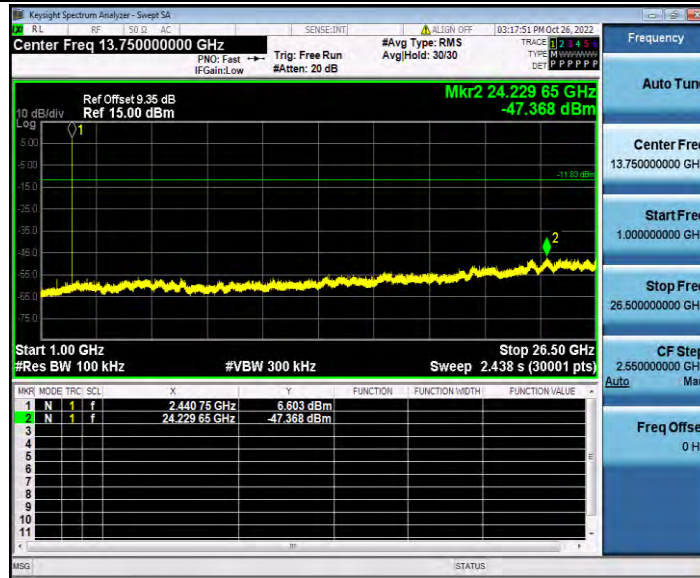
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



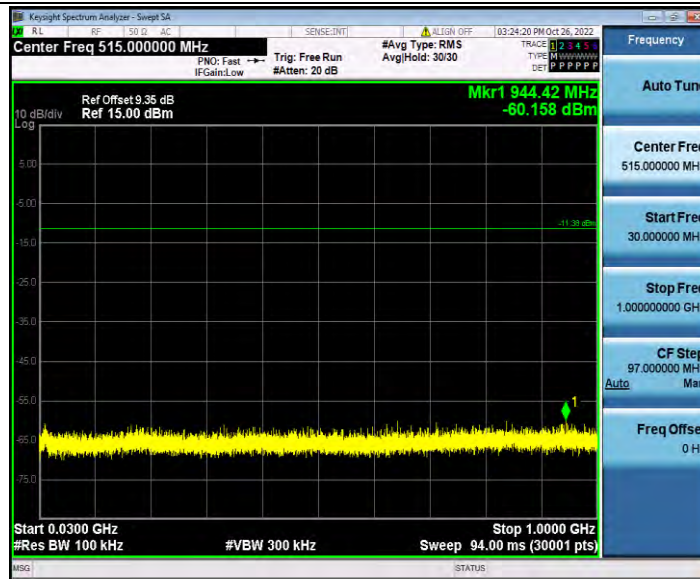
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



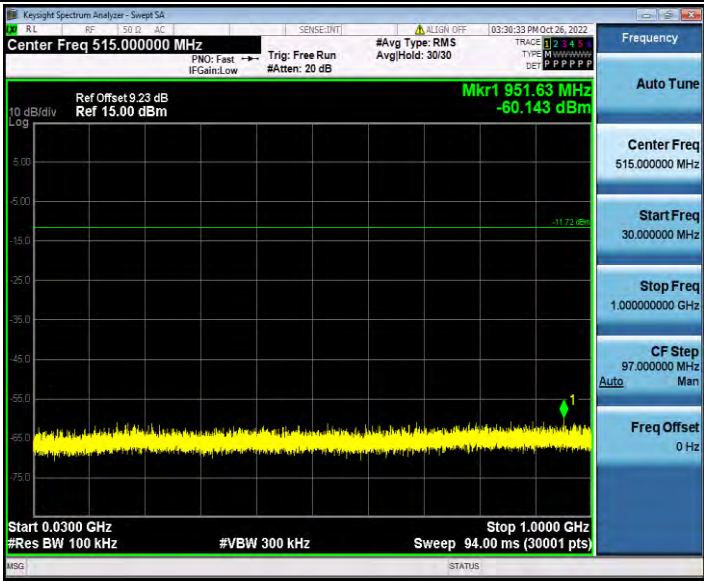
DH1_Ant1_2480_1000~26500



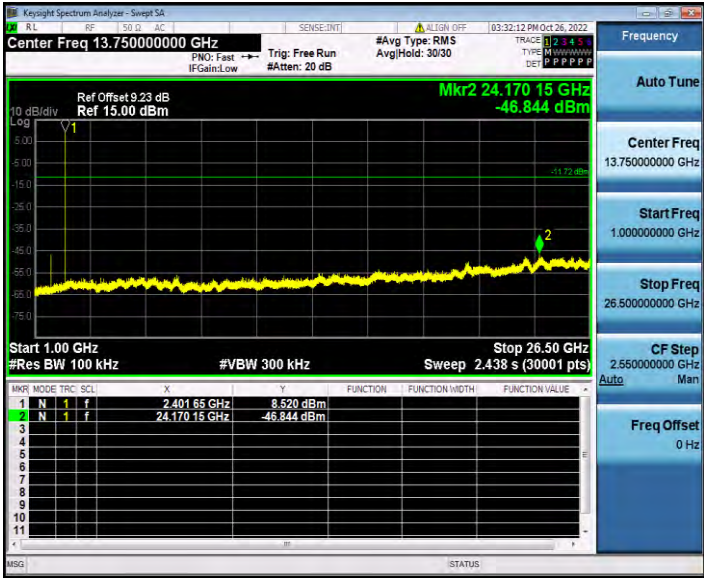
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



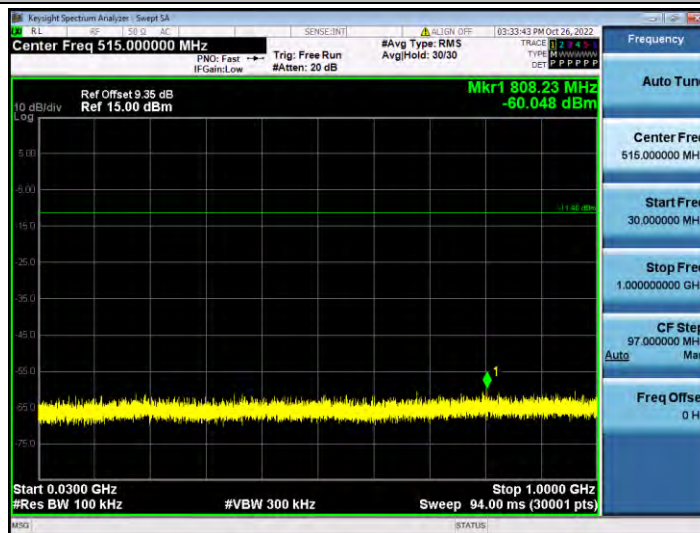
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



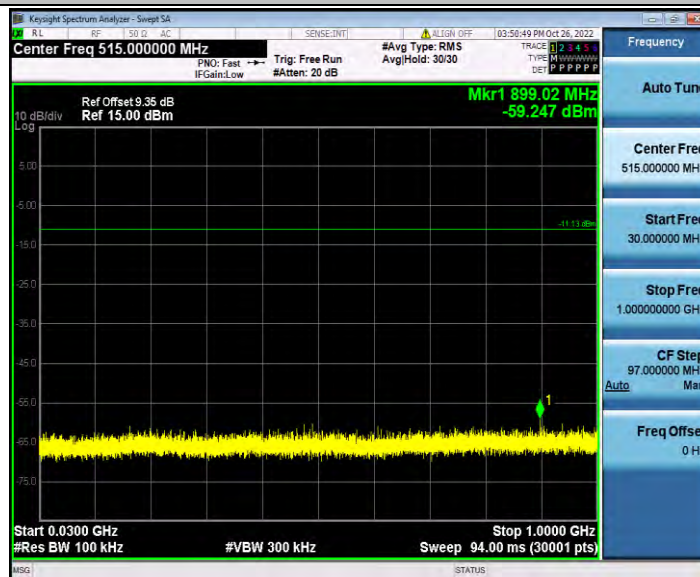
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



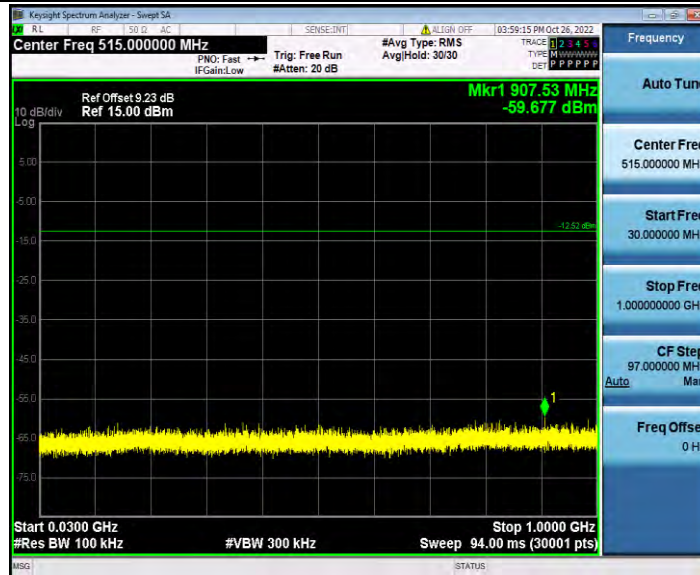
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



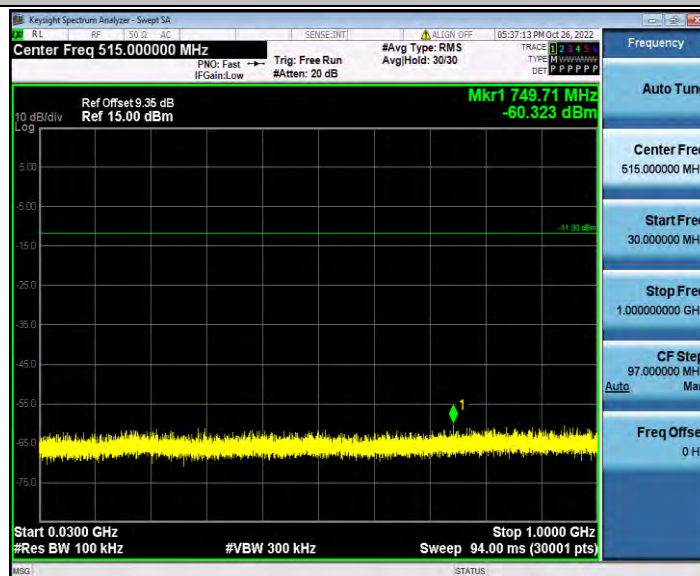
3DH1_Ant1_2402_1000~26500



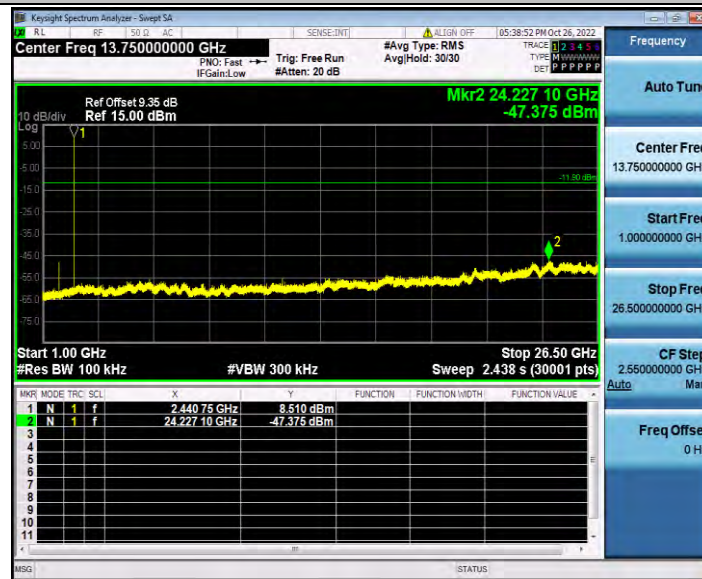
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



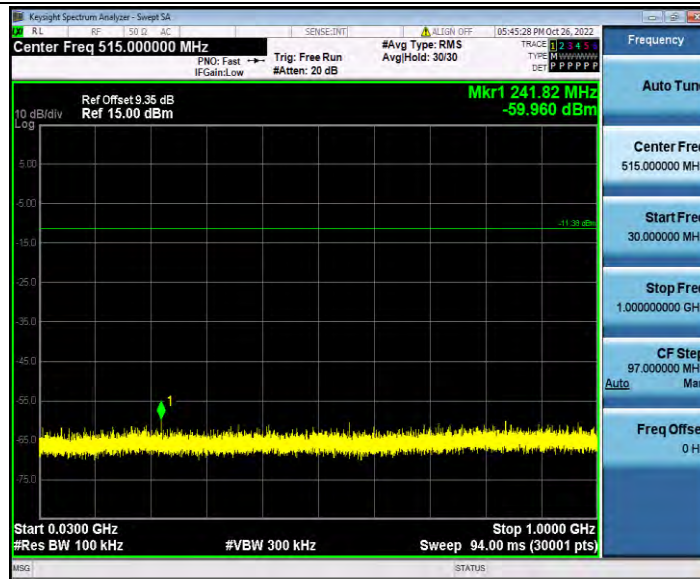
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

