

Case No. : GTS20220924005-1-2	
Ambient Condition: 26 °C, 46 %RH,	
Test Date: 2022.10.13	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	1.035	2401.487	2402.522	---	---
		2441	1.026	2440.496	2441.522	---	---
		2480	1.032	2479.490	2480.522	---	---
2DH1	Ant1	2402	1.347	2401.319	2402.666	---	---
		2441	1.350	2440.319	2441.669	---	---
		2480	1.338	2479.328	2480.666	---	---
3DH1	Ant1	2402	1.275	2401.358	2402.633	---	---
		2441	1.281	2440.349	2441.630	---	---
		2480	1.290	2479.340	2480.630	---	---

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



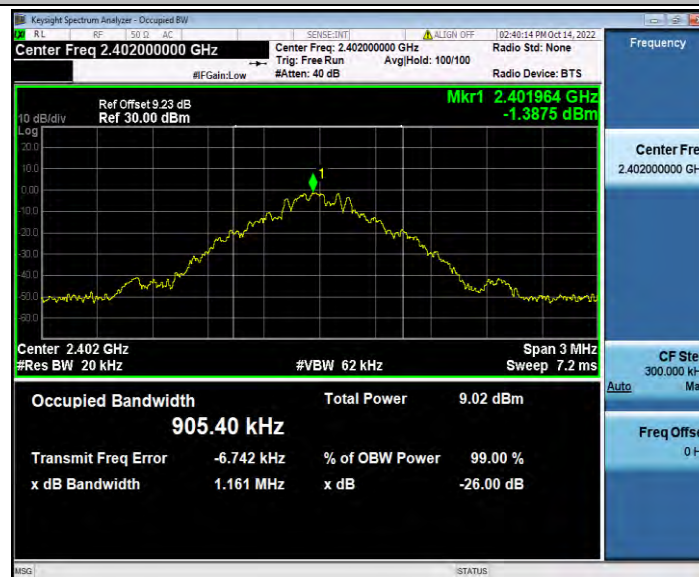
Appendix A.2: Occupied Channel Bandwidth

Test Result

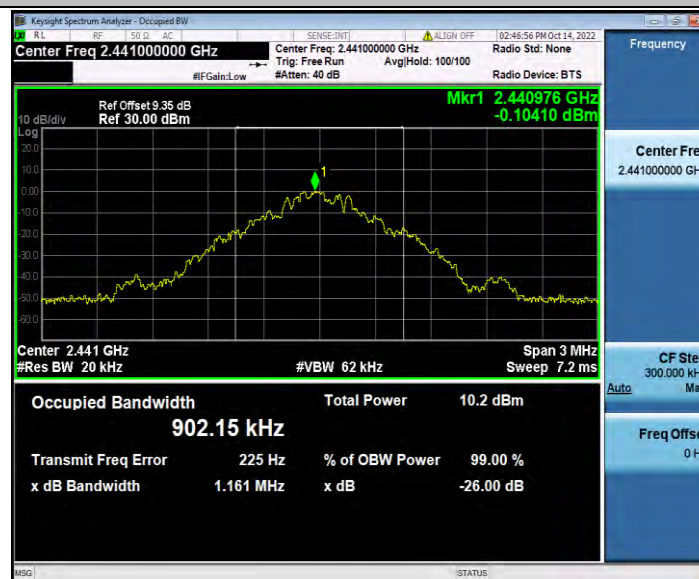
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.90540	2401.541	2402.446	---	---
		2441	0.90215	2440.549	2441.451	---	---
		2480	0.90843	2479.544	2480.452	---	---
2DH1	Ant1	2402	1.1793	2401.393	2402.572	---	---
		2441	1.1910	2440.386	2441.577	---	---
		2480	1.1862	2479.390	2480.576	---	---
3DH1	Ant1	2402	1.1721	2401.414	2402.586	---	---
		2441	1.1698	2440.418	2441.588	---	---
		2480	1.1723	2479.417	2480.590	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



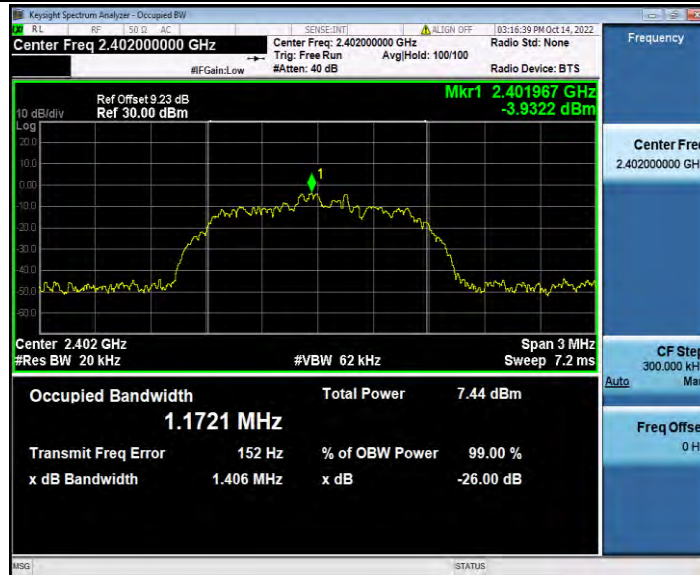
2DH1_Ant1_2441



2DH1_Ant1_2480



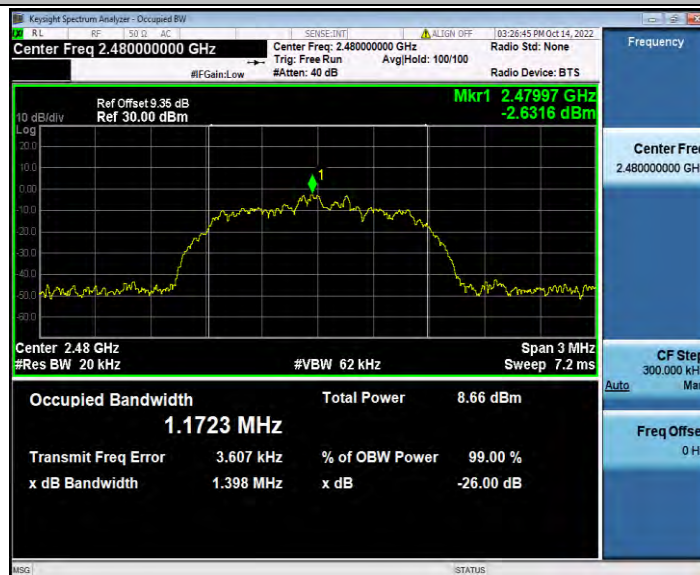
3DH1_Ant1_2402



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	3.43	≤20.97	PASS
		2441	4.76	≤20.97	PASS
		2480	4.6	≤20.97	PASS
2DH1	Ant1	2402	3.12	≤20.97	PASS
		2441	4.66	≤20.97	PASS
		2480	4.44	≤20.97	PASS
3DH1	Ant1	2402	3.46	≤20.97	PASS
		2441	4.92	≤20.97	PASS
		2480	4.87	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.99	≥ 0.690	PASS
		Hop_2441	1.004	≥ 0.690	PASS
		Hop_2480	1.008	≥ 0.690	PASS
2DH1	Ant1	Hop_2402	1.024	≥ 0.900	PASS
		Hop_2441	1.014	≥ 0.900	PASS
		Hop_2480	1.012	≥ 0.900	PASS
3DH1	Ant1	Hop_2402	0.978	≥ 0.860	PASS
		Hop_2441	0.988	≥ 0.860	PASS
		Hop_2480	1.008	≥ 0.860	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



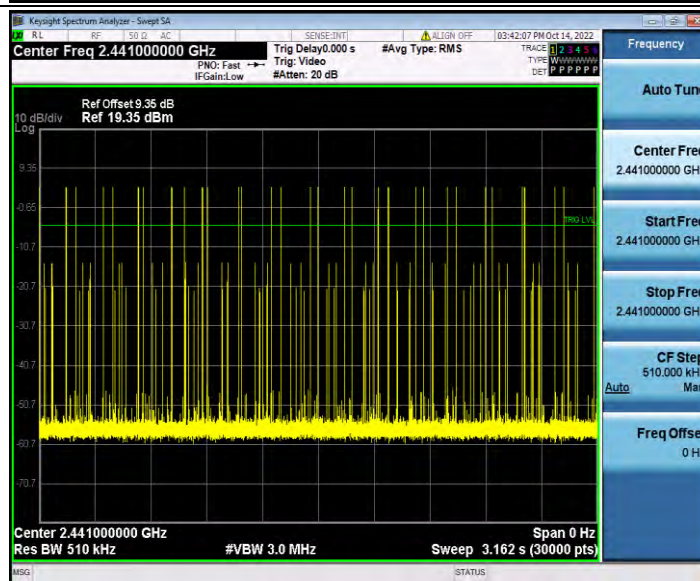
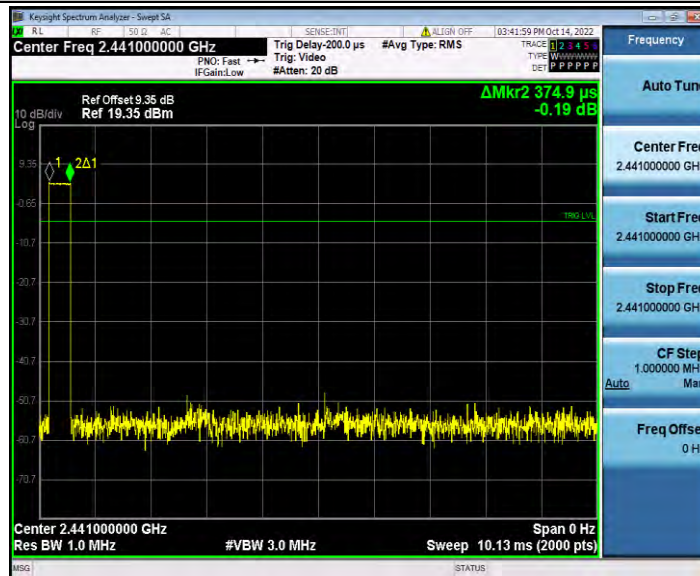
Appendix A.5: Time of occupancy

Test Result

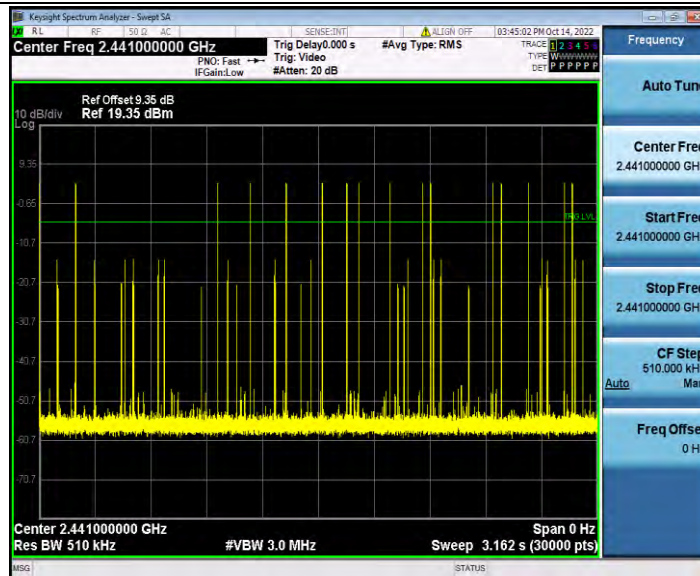
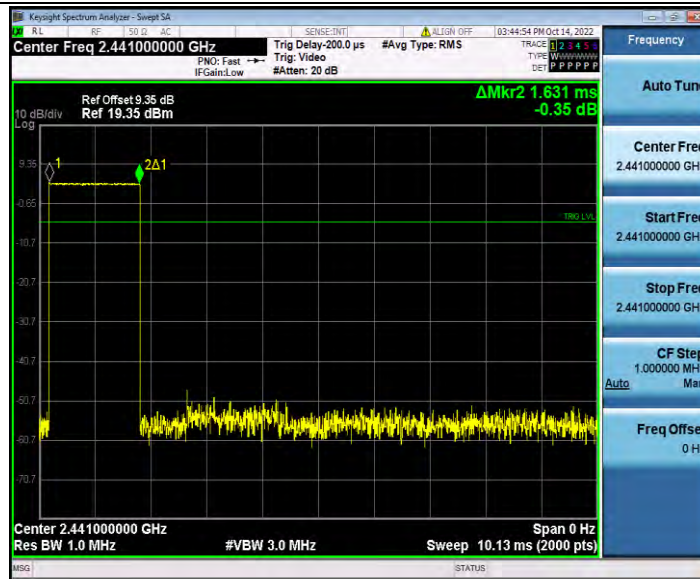
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.87	110	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.63	180	0.294	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.36	330	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	150	0.244	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

Test Graphs

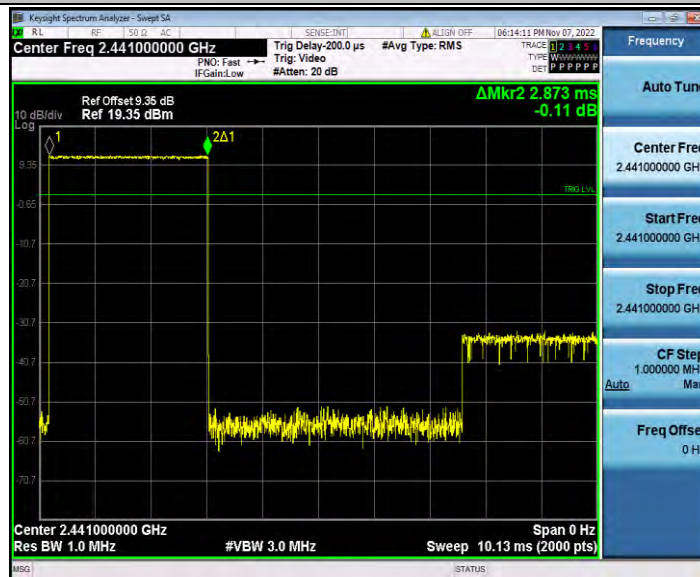
DH1_Ant1_Hop

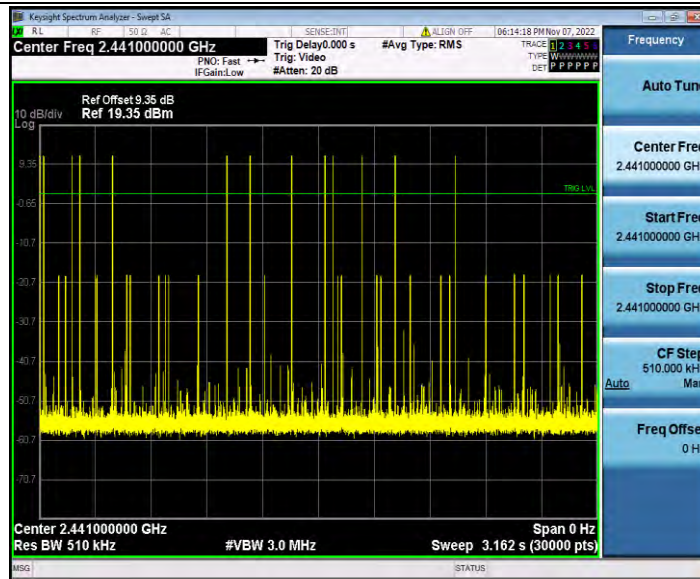


DH3_Ant1_Hop

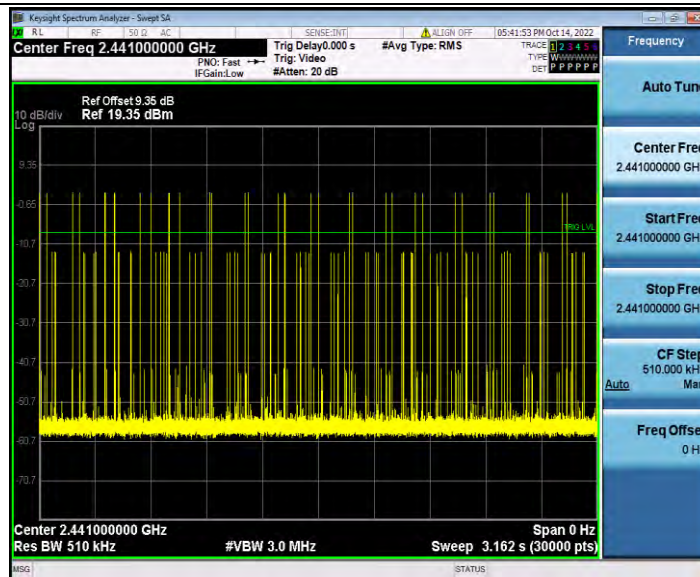
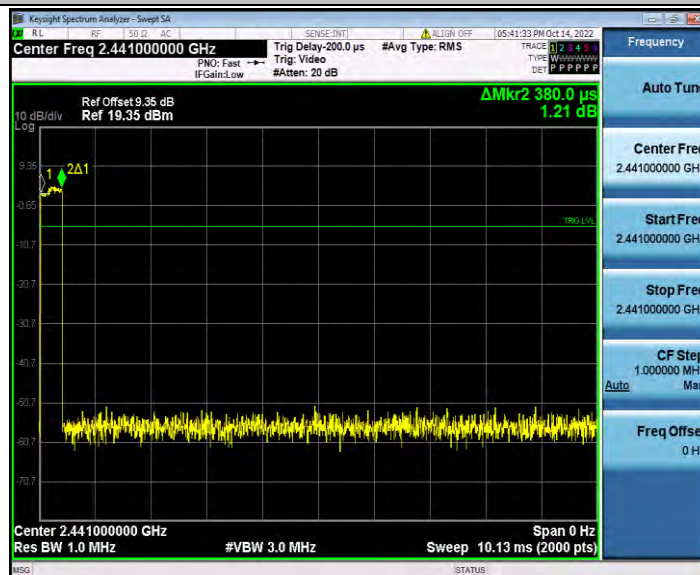


DH5_Ant1_Hop

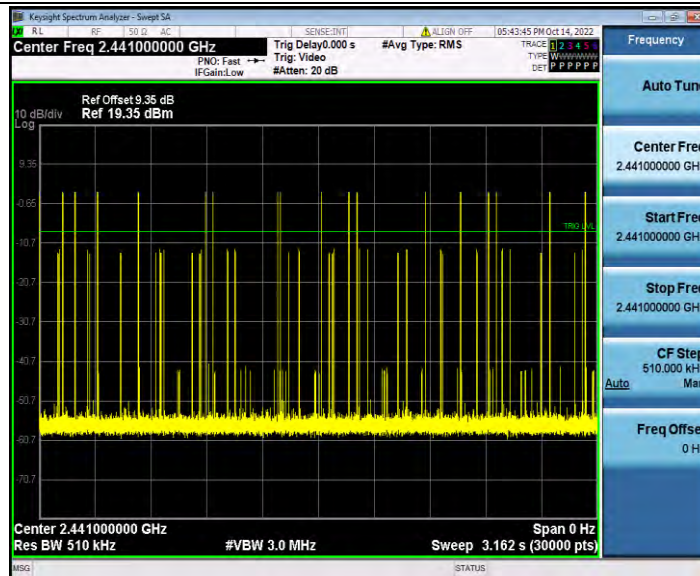
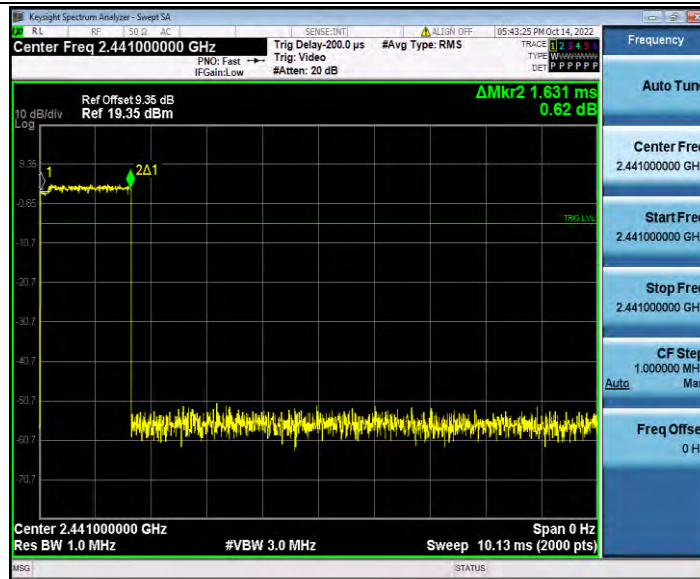




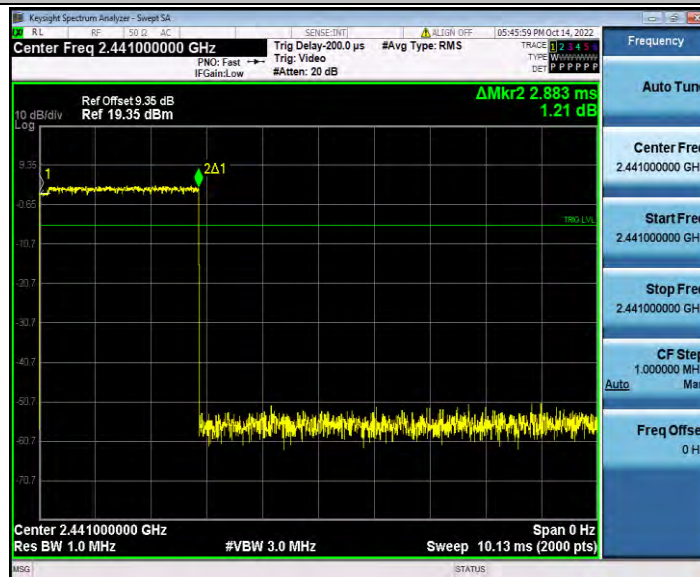
2DH1_Ant1_Hop

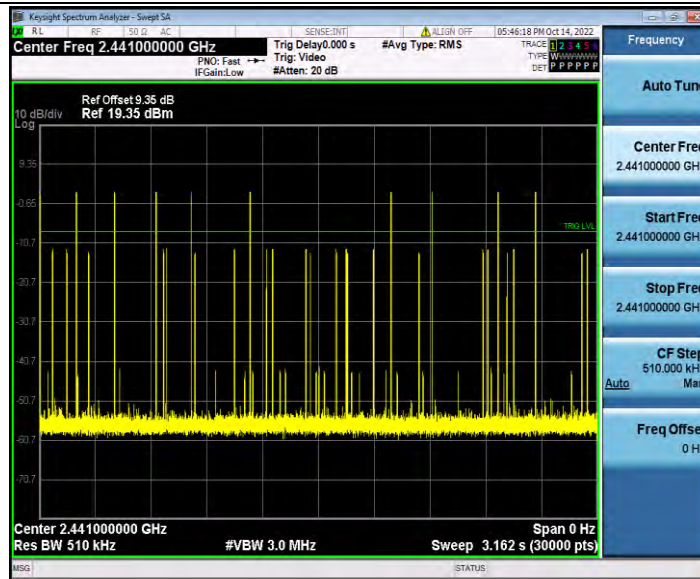


2DH3_Ant1_Hop

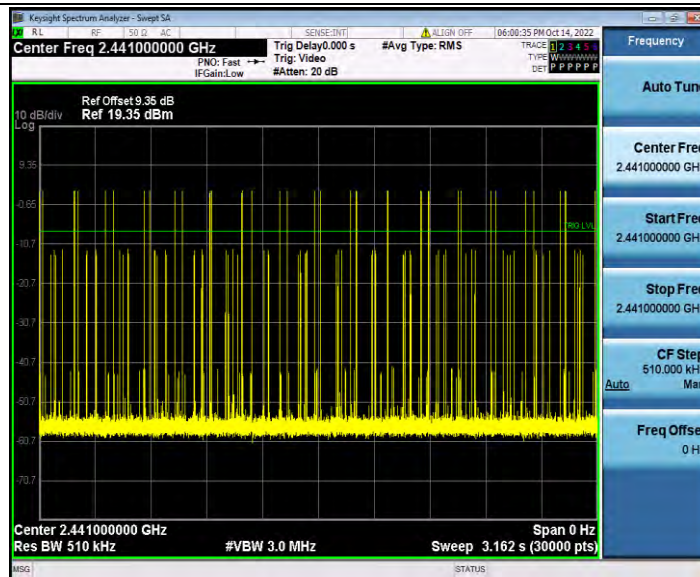
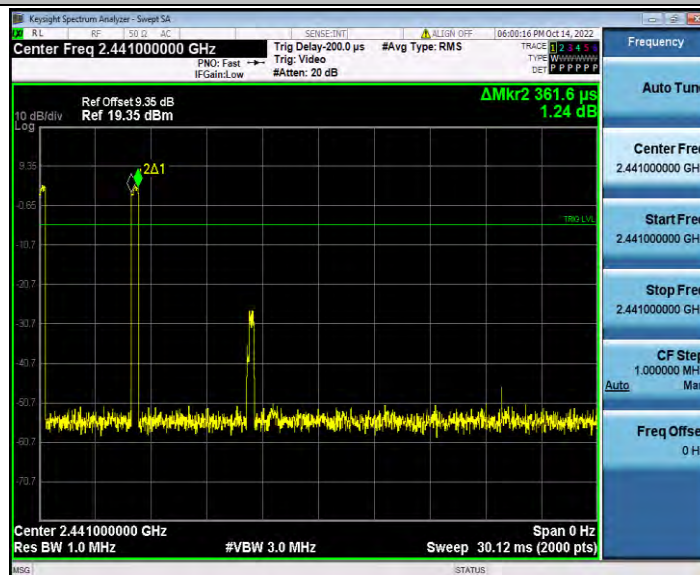


2DH5_Ant1_Hop

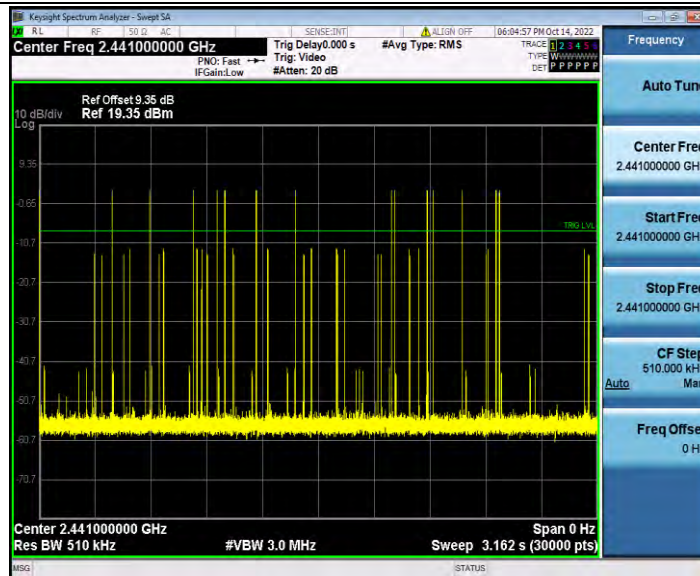
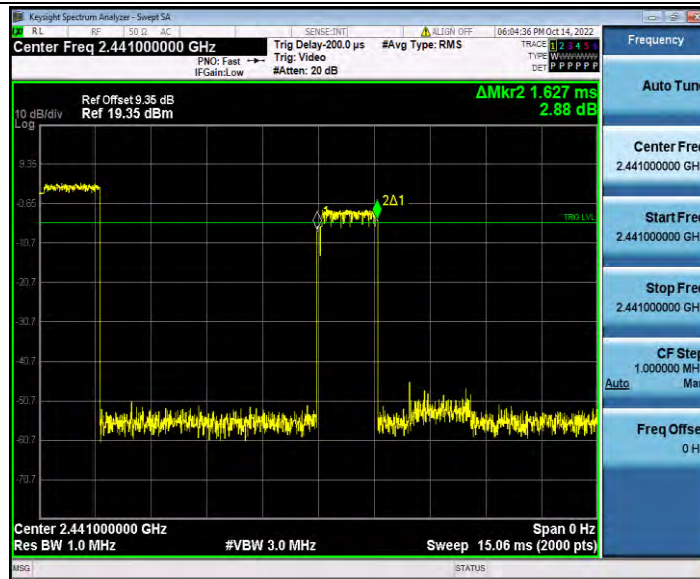




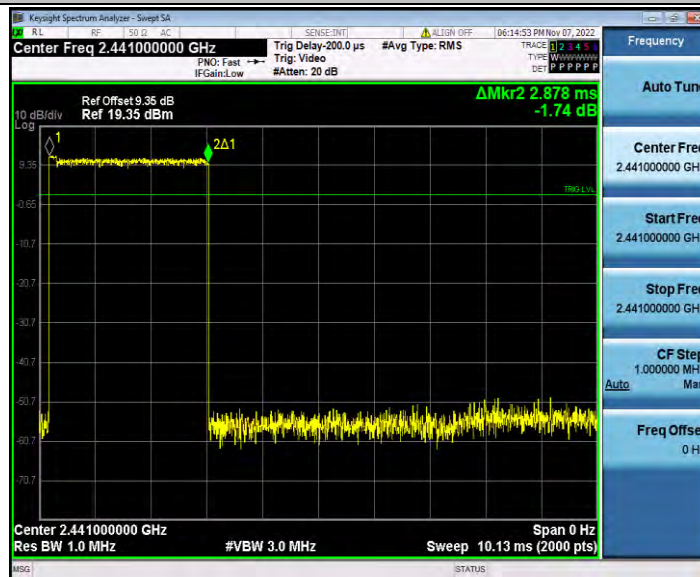
3DH1_Ant1_Hop

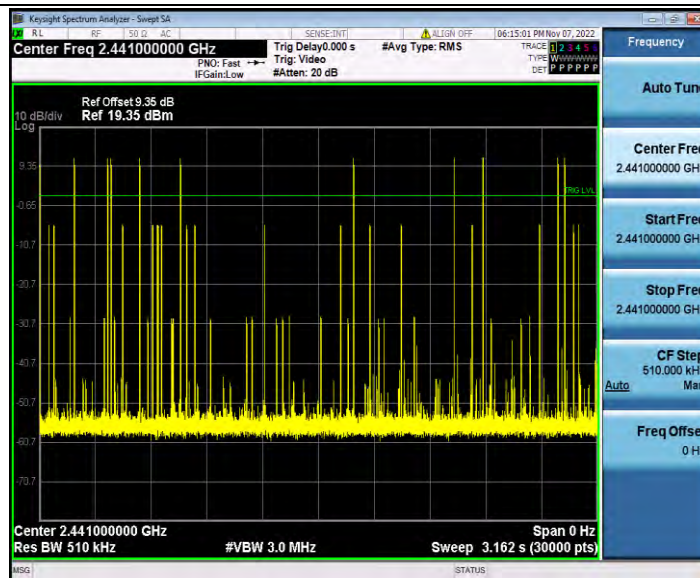


3DH3_Ant1_Hop



3DH5_Ant1_Hop



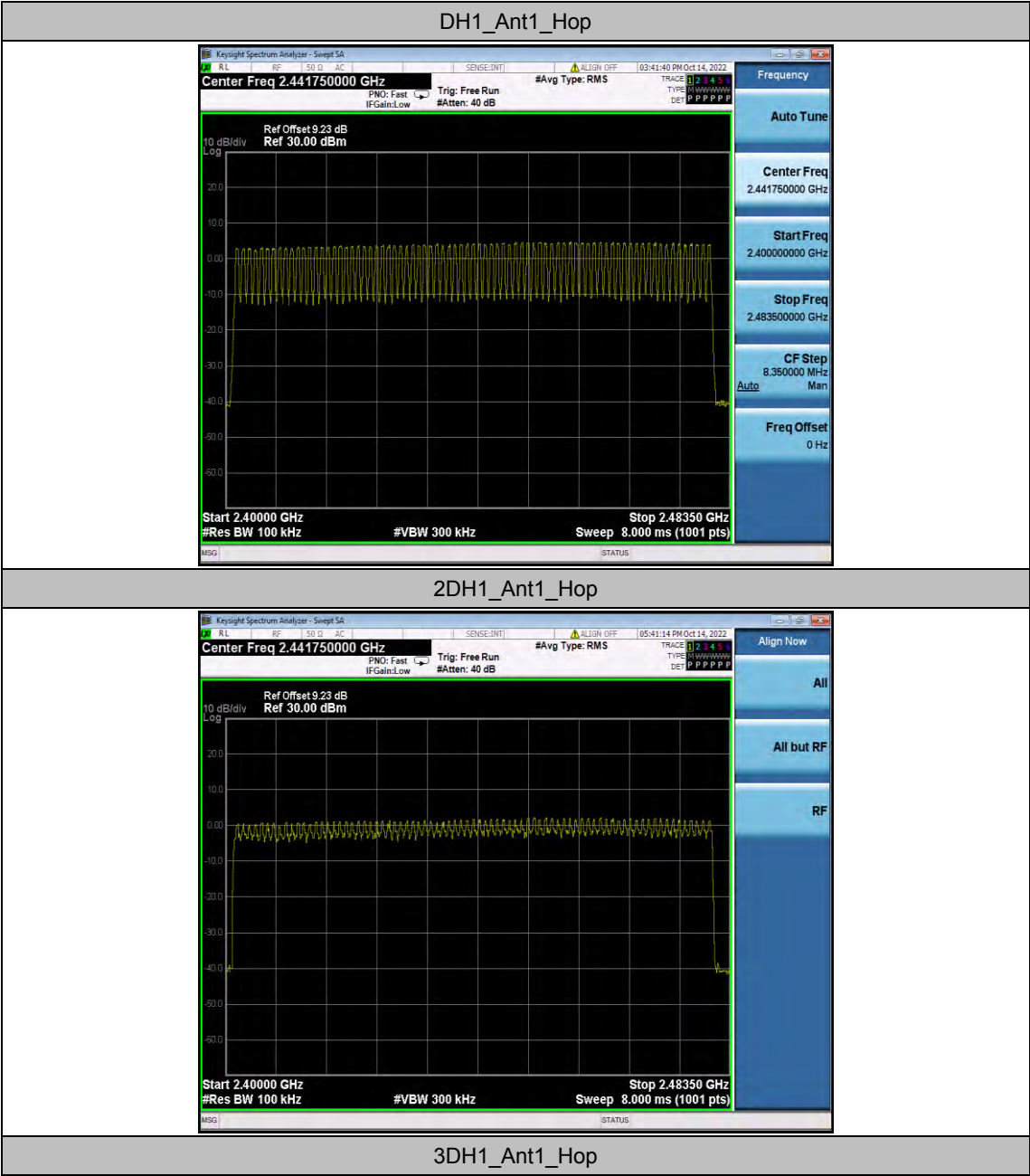


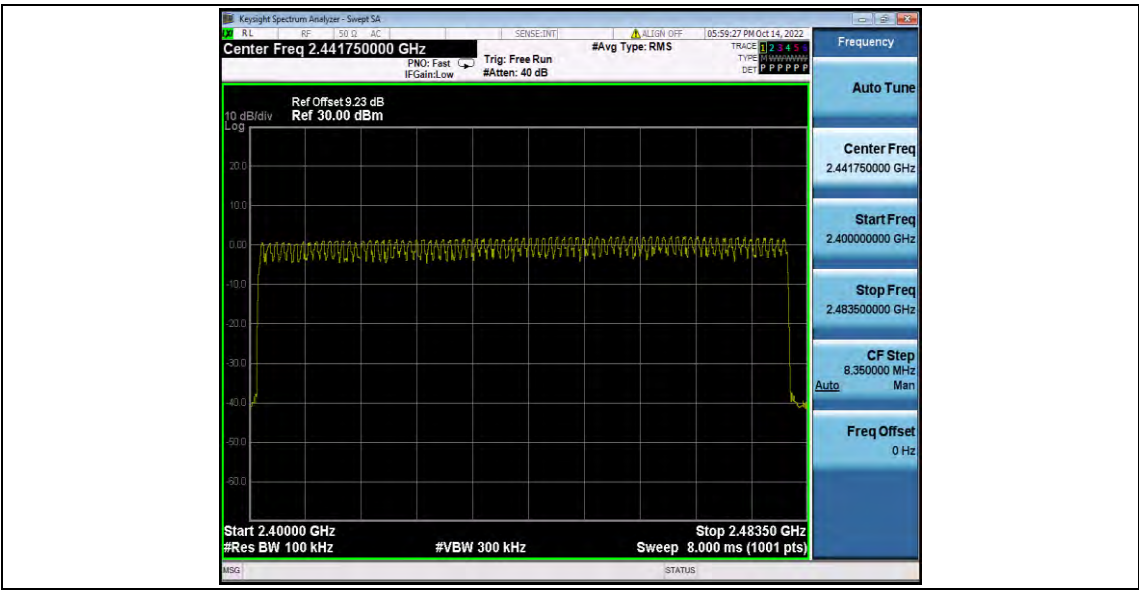
Appendix A.6: Number of hopping channels

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





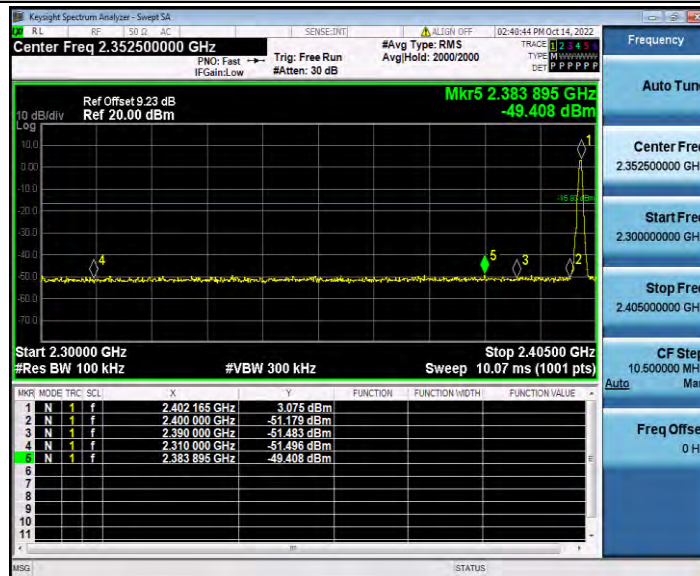
Appendix A.7: Band edge measurements

Test Result

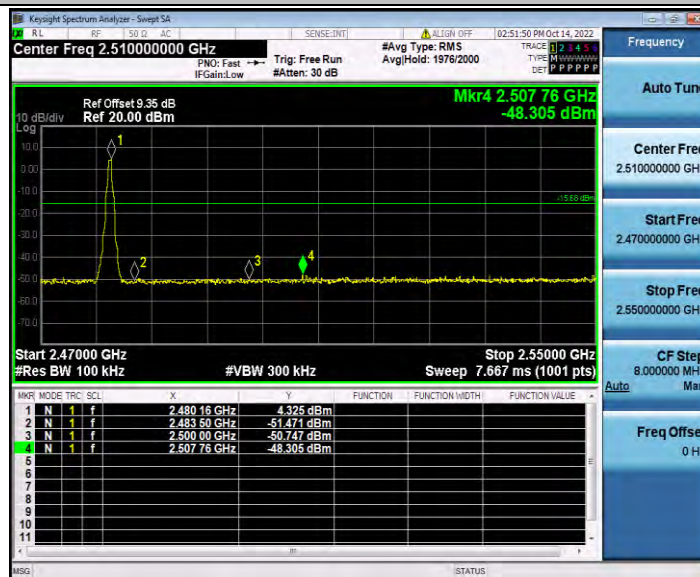
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	3.08	-49.41	≤-16.93	PASS
		High	2480	4.33	-48.31	≤-15.68	PASS
		Low	Hop_2402	2.42	-48.65	≤-17.58	PASS
		High	Hop_2480	4.49	-48.2	≤-15.52	PASS
2DH1	Ant1	Low	2402	0.52	-48.44	≤-19.48	PASS
		High	2480	1.68	-48.9	≤-18.32	PASS
		Low	Hop_2402	0.69	-49.4	≤-19.31	PASS
		High	Hop_2480	1.90	-48.85	≤-18.1	PASS
3DH1	Ant1	Low	2402	0.51	-49.22	≤-19.49	PASS
		High	2480	1.81	-48.39	≤-18.19	PASS
		Low	Hop_2402	-0.01	-49.18	≤-20.01	PASS
		High	Hop_2480	1.96	-48.21	≤-18.05	PASS

Test Graphs

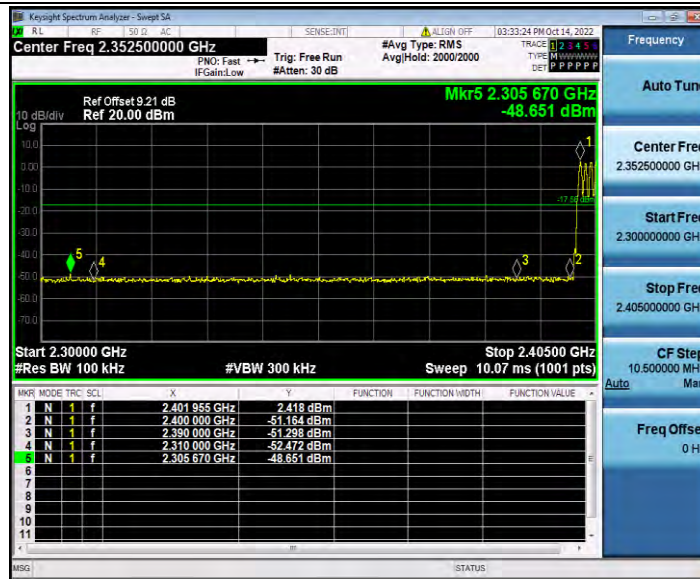
DH1_Ant1_Low_2402



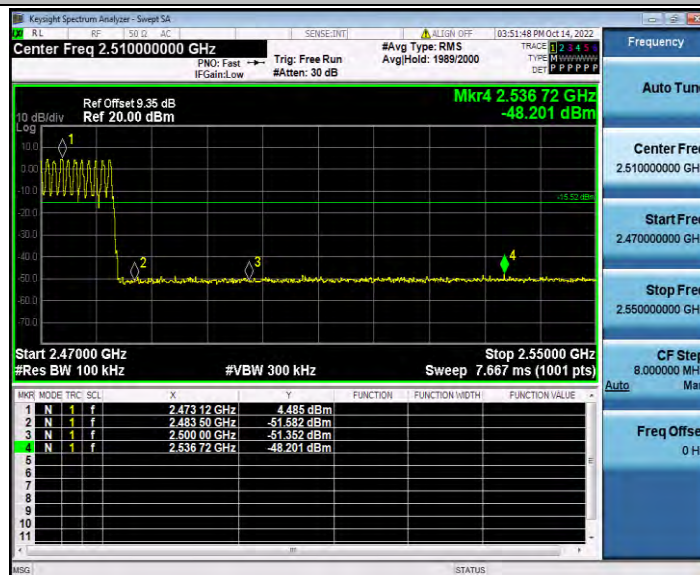
DH1_Ant1_High_2480



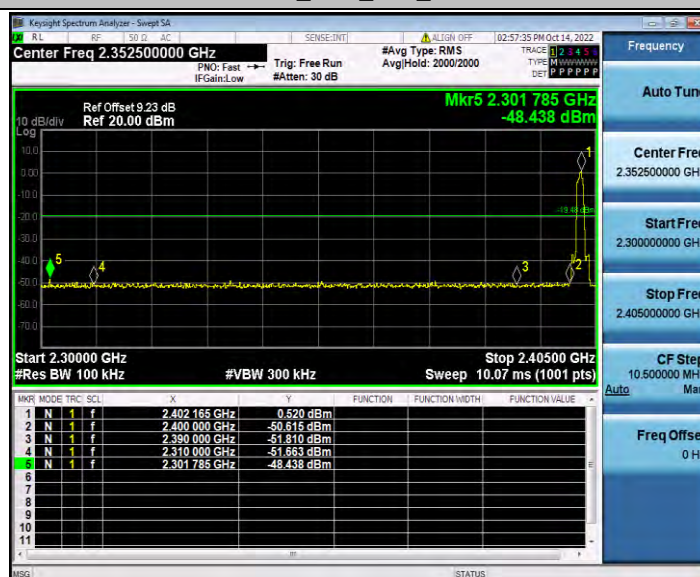
DH1_Ant1_Low_Hop_2402



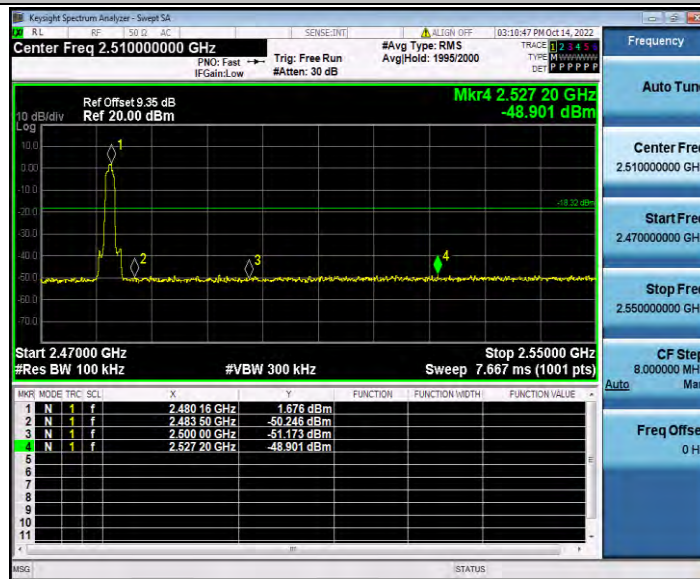
DH1_Ant1_High_Hop_2480



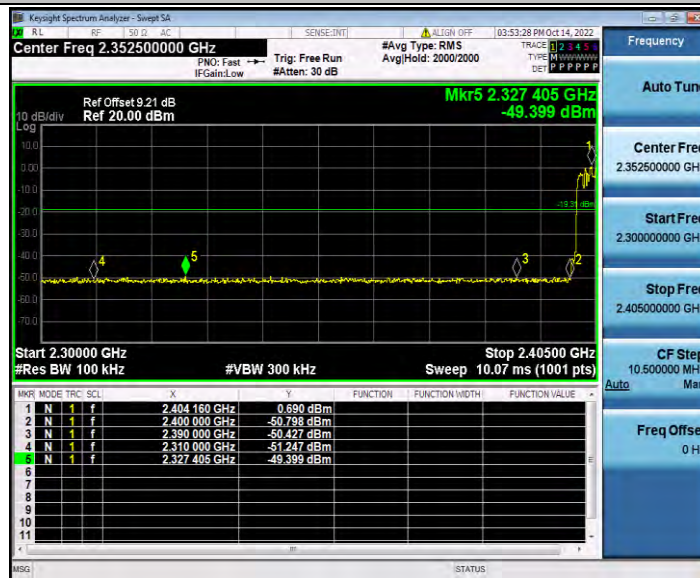
2DH1_Ant1_Low_2402



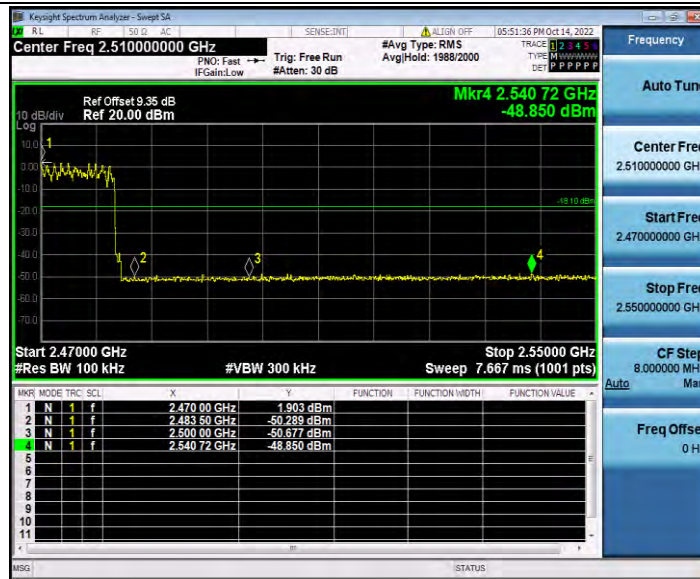
2DH1_Ant1_High_2480



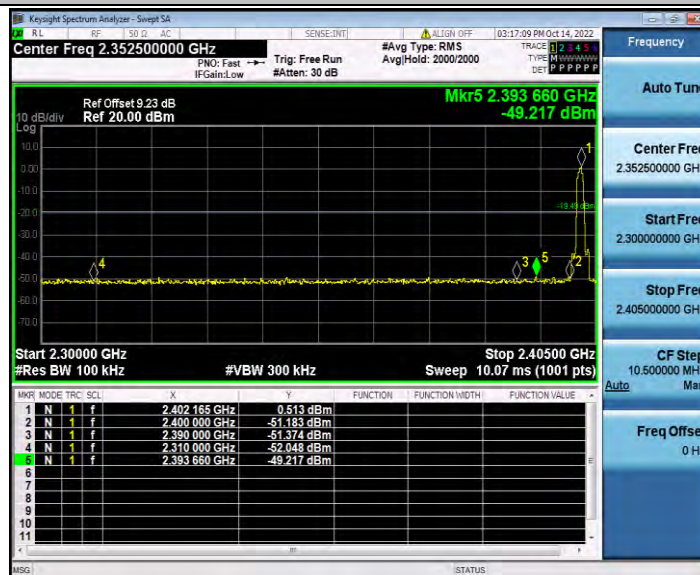
2DH1_Ant1_Low_Hop_2402



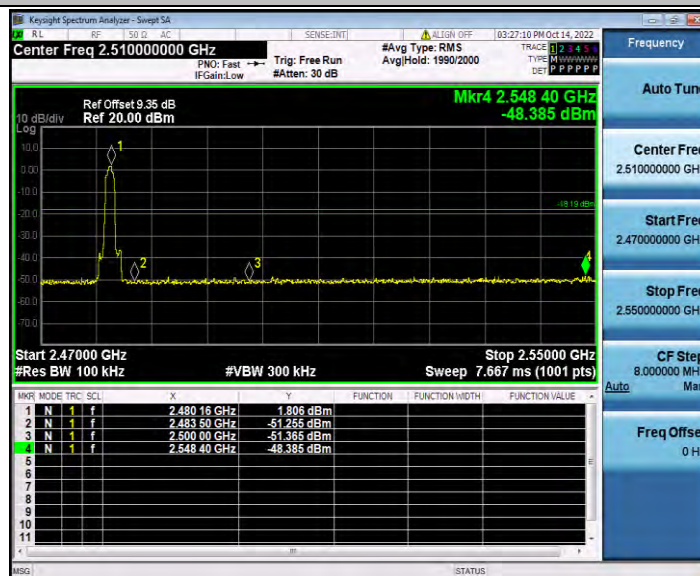
2DH1_Ant1_High_Hop_2480



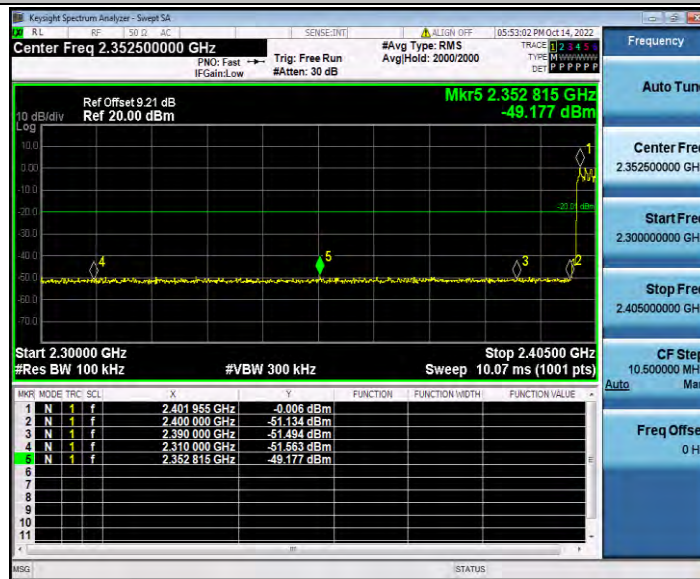
3DH1_Ant1_Low_2402



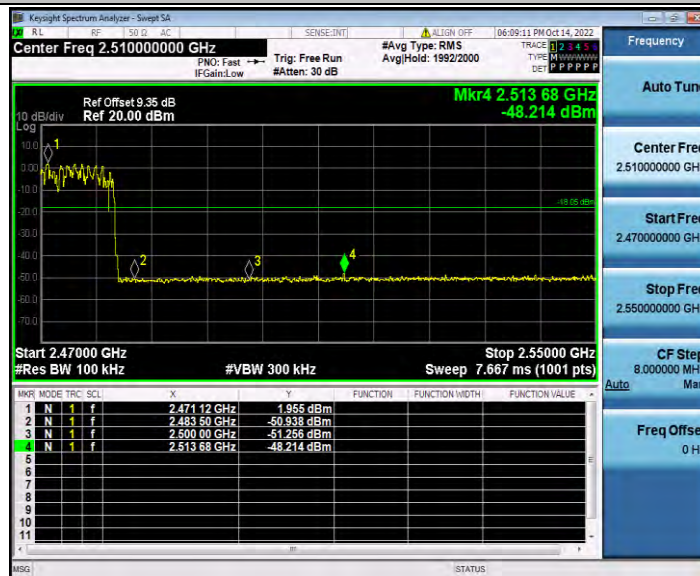
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

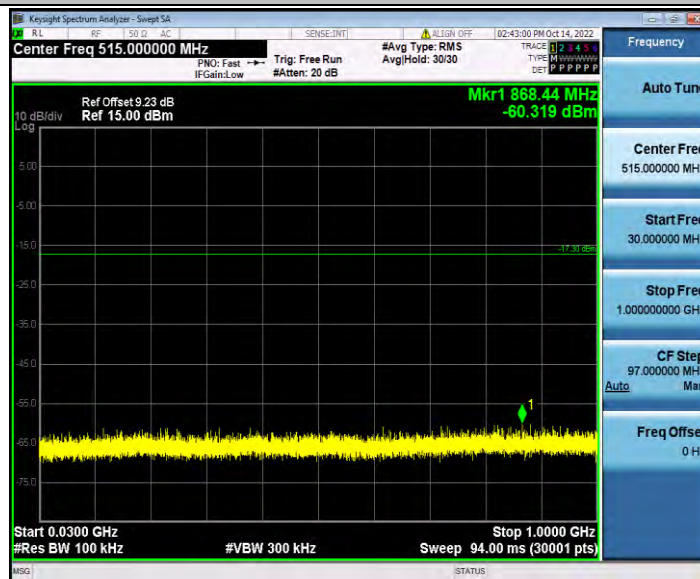
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-60.32	≤-17.3	PASS
			1000~26500	2.70	-47.71	≤-17.3	PASS
		2441	Reference	3.88	3.88	---	PASS
			30~1000	3.88	-59.66	≤-16.12	PASS
			1000~26500	3.88	-47.69	≤-16.12	PASS
		2480	Reference	3.74	3.74	---	PASS
			30~1000	3.74	-60.12	≤-16.26	PASS
			1000~26500	3.74	-47.75	≤-16.26	PASS
2DH1	Ant1	2402	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-59.86	≤-19.54	PASS
			1000~26500	0.46	-47.99	≤-19.54	PASS
		2441	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-60.64	≤-18.61	PASS
			1000~26500	1.39	-47.16	≤-18.61	PASS
		2480	Reference	1.60	1.60	---	PASS
			30~1000	1.60	-59.88	≤-18.4	PASS
			1000~26500	1.60	-46.9	≤-18.4	PASS
3DH1	Ant1	2402	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-60.46	≤-19.65	PASS
			1000~26500	0.35	-47.54	≤-19.65	PASS
		2441	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-60.06	≤-18.29	PASS
			1000~26500	1.71	-47.1	≤-18.29	PASS
		2480	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-59.78	≤-18.31	PASS
			1000~26500	1.69	-47.69	≤-18.31	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



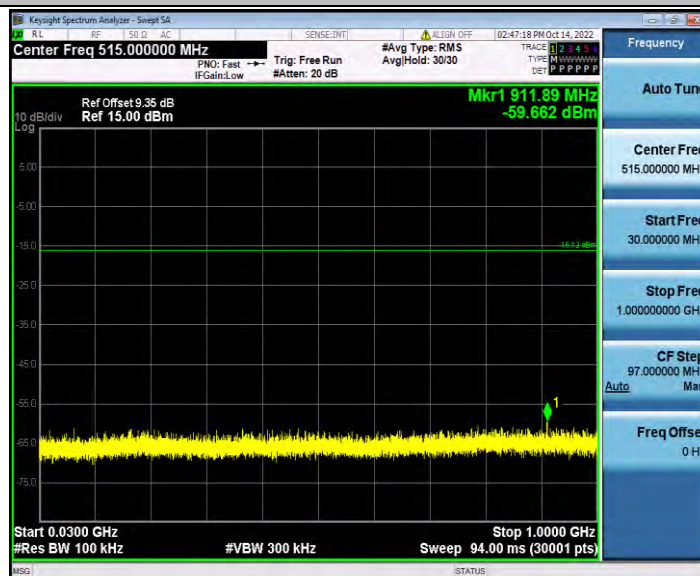
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



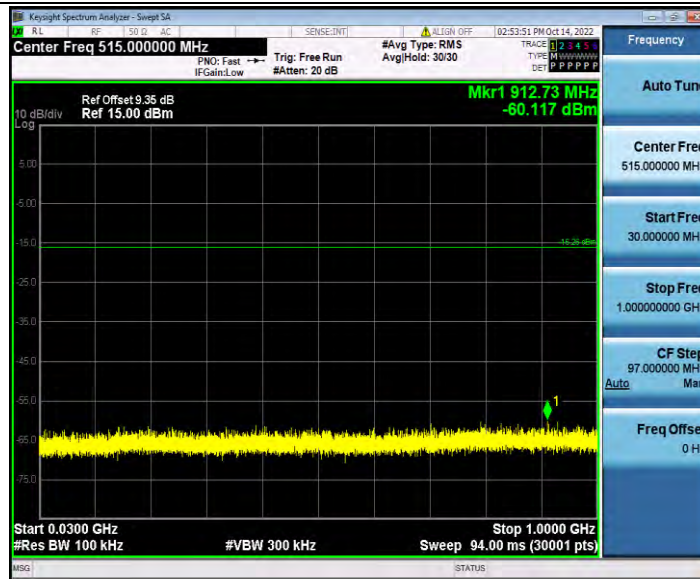
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



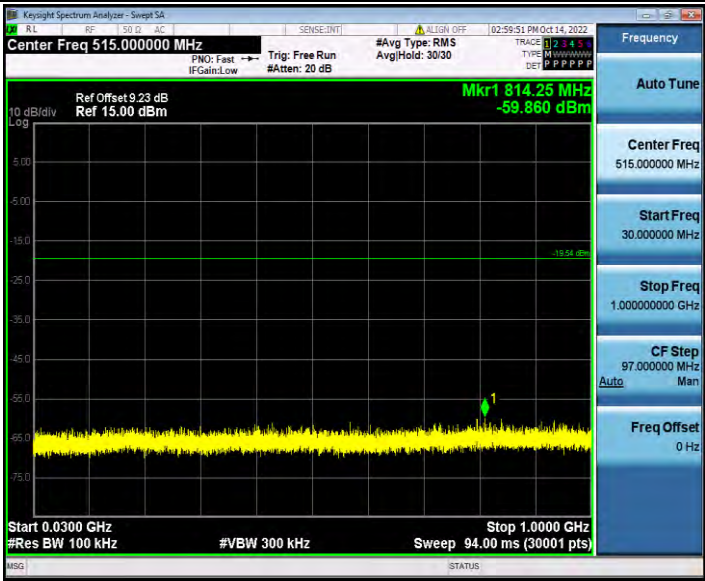
DH1_Ant1_2480_1000~26500



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



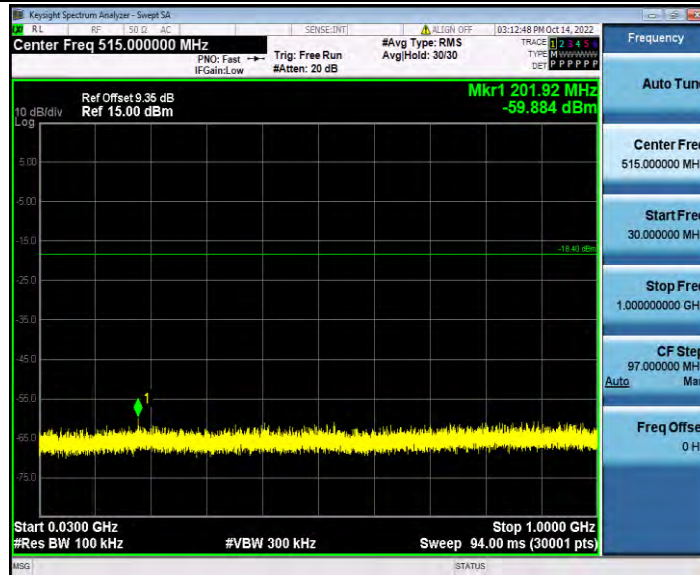
2DH1_Ant1_2441_1000~26500



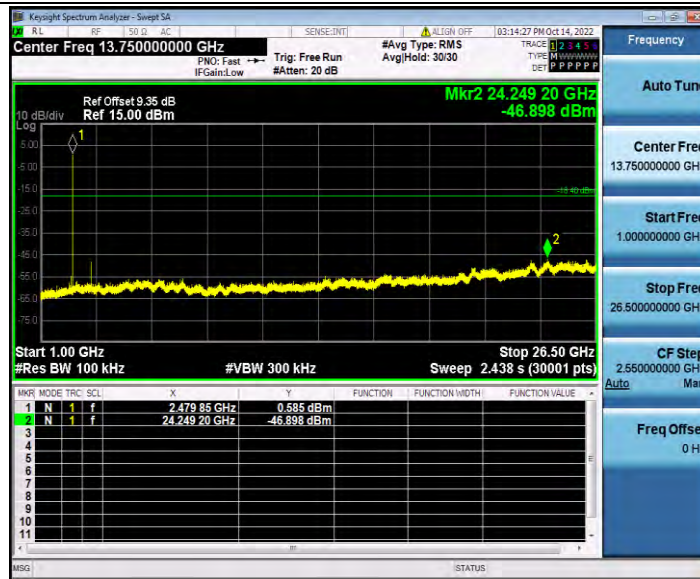
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



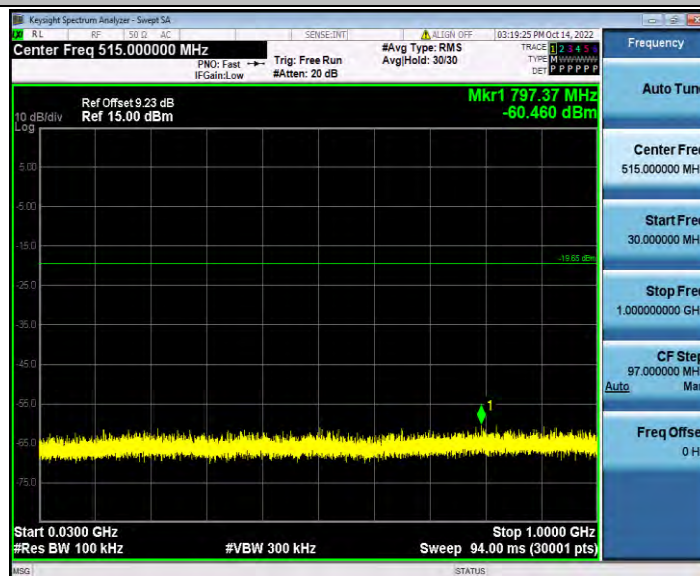
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



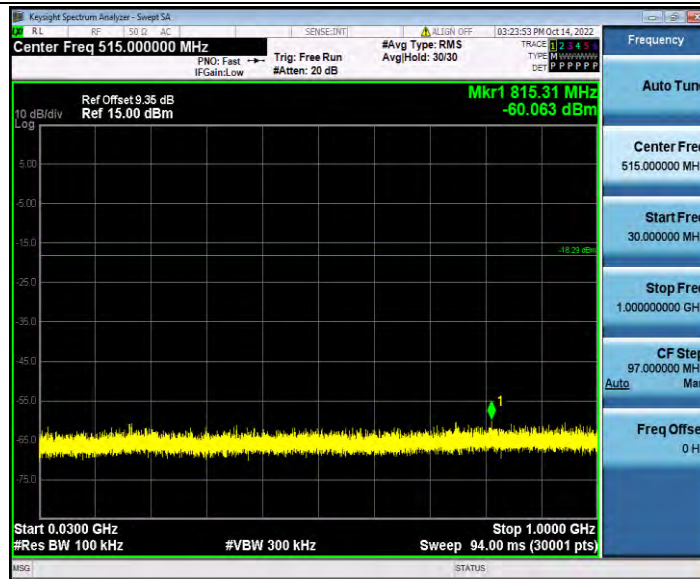
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



