

Case No. : GTS20220808003-1-1	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.8.23	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	0.942	2401.532	2402.474	---	---
		2441	0.945	2440.529	2441.474	---	---
		2480	0.948	2479.526	2480.474	---	---
2DH1	Ant1	2402	1.494	2401.220	2402.714	---	---
		2441	1.476	2440.226	2441.702	---	---
		2480	1.488	2479.226	2480.714	---	---
3DH1	Ant1	2402	1.455	2401.256	2402.711	---	---
		2441	1.461	2440.256	2441.717	---	---
		2480	1.488	2479.253	2480.741	---	---

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

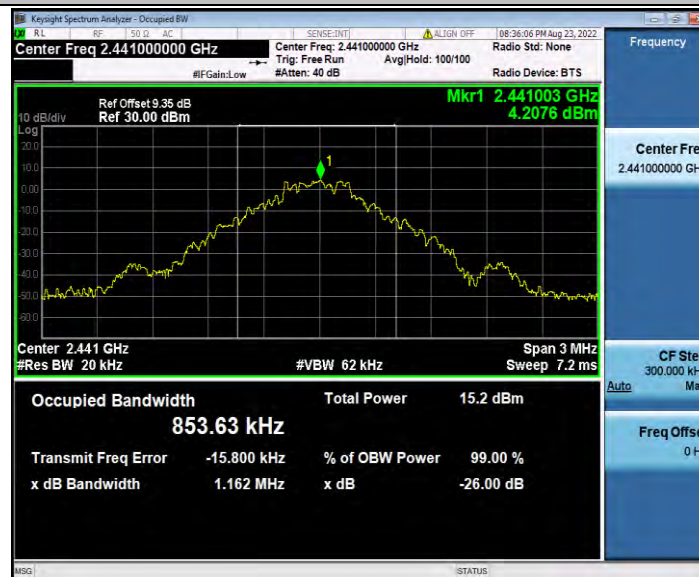
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.84925	2401.559	2402.408	---	---
		2441	0.85363	2440.557	2441.411	---	---
		2480	0.84664	2479.556	2480.402	---	---
2DH1	Ant1	2402	1.3449	2401.311	2402.656	---	---
		2441	1.3417	2440.311	2441.653	---	---
		2480	1.3527	2479.301	2480.653	---	---
3DH1	Ant1	2402	1.3520	2401.307	2402.659	---	---
		2441	1.3445	2440.312	2441.657	---	---
		2480	1.3431	2479.311	2480.654	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



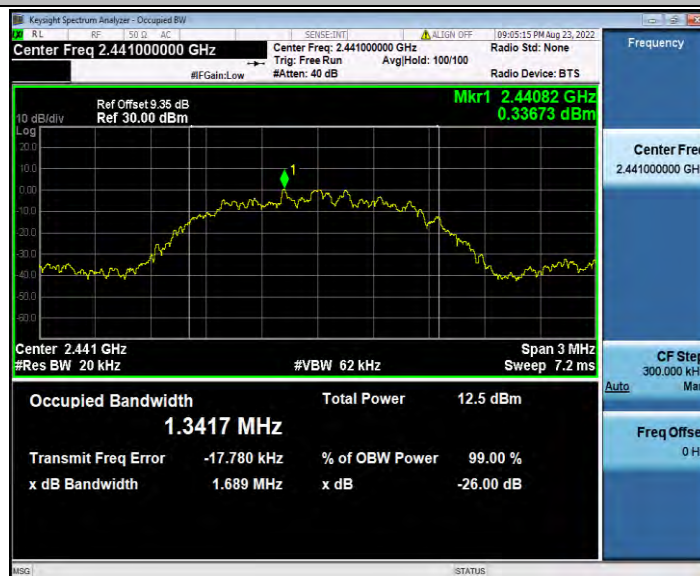
DH1_Ant1_2480



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	7.67	≤20.97	PASS
		2441	5.96	≤20.97	PASS
		2480	9.32	≤20.97	PASS
2DH1	Ant1	2402	6.21	≤20.97	PASS
		2441	7.85	≤20.97	PASS
		2480	7.40	≤20.97	PASS
3DH1	Ant1	2402	6.35	≤20.97	PASS
		2441	7.98	≤20.97	PASS
		2480	7.61	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.844	≥ 0.632	PASS
		Hop_2441	0.846	≥ 0.632	PASS
		Hop_2480	1.002	≥ 0.632	PASS
2DH1	Ant1	Hop_2402	1.198	≥ 0.996	PASS
		Hop_2441	1.004	≥ 0.996	PASS
		Hop_2480	1.03	≥ 0.996	PASS
3DH1	Ant1	Hop_2402	1.146	≥ 0.992	PASS
		Hop_2441	1.166	≥ 0.992	PASS
		Hop_2480	1.13	≥ 0.992	PASS

Test Graphs

DH1_Ant1_Hop_2402



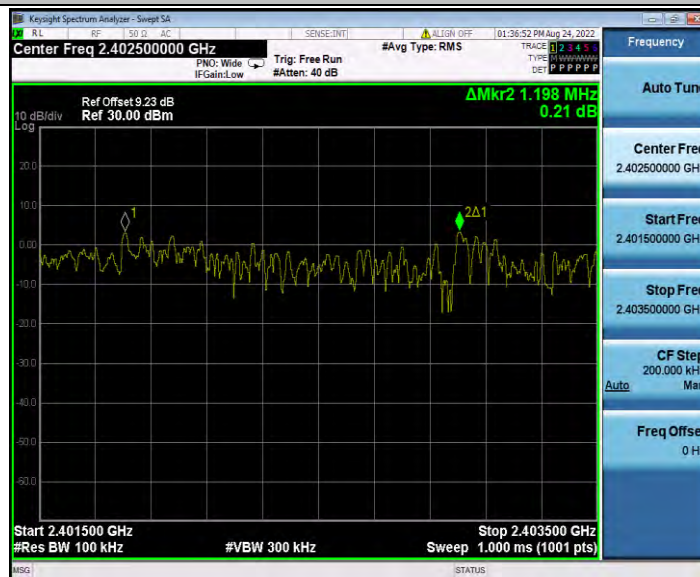
DH1_Ant1_Hop_2441



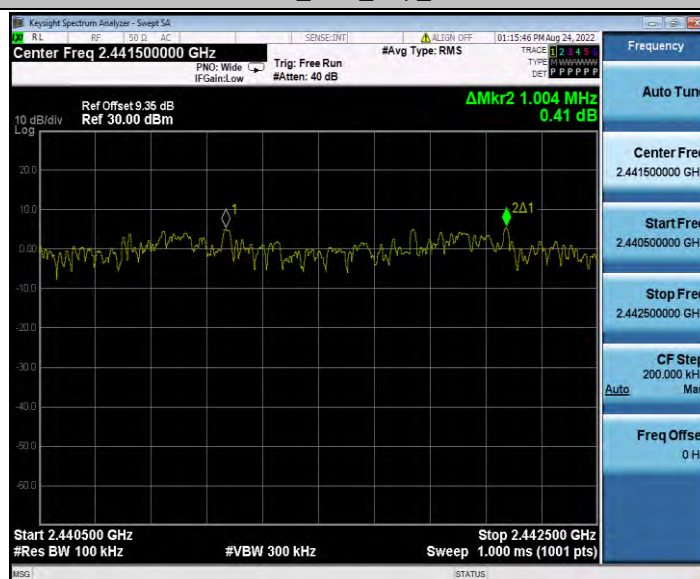
DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



3DH1_Ant1_Hop_2480



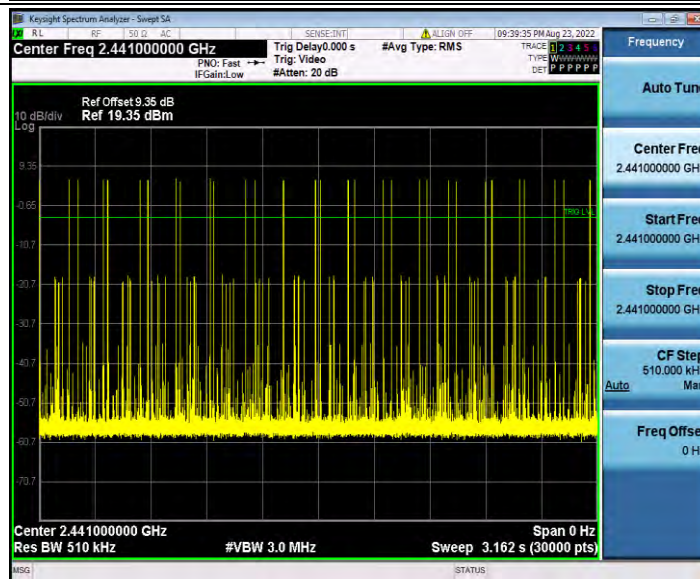
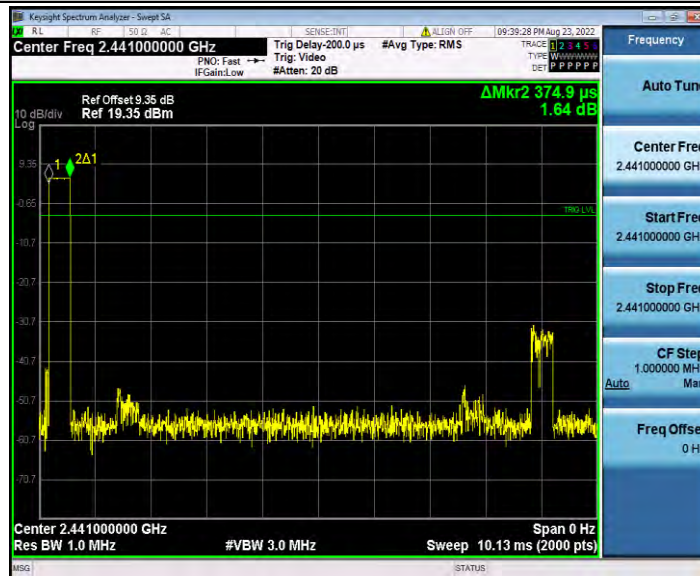
Appendix A.5: Time of occupancy

Test Result

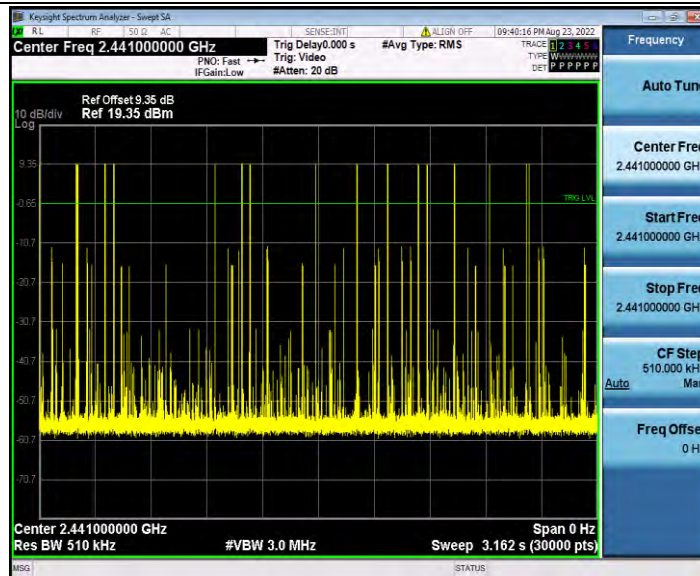
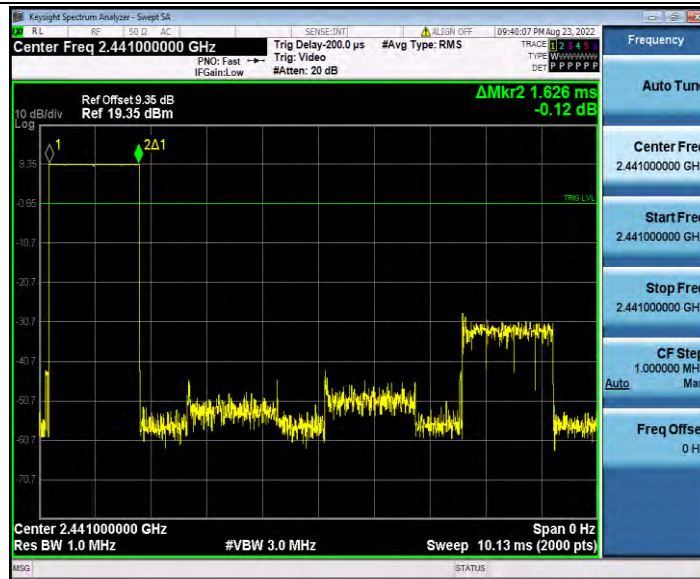
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.120	≤0.4	PASS
DH3	Ant1	Hop	1.63	170	0.276	≤0.4	PASS
DH5	Ant1	Hop	2.88	50	0.144	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.64	210	0.344	≤0.4	PASS
2DH5	Ant1	Hop	2.88	60	0.173	≤0.4	PASS
3DH1	Ant1	Hop	0.38	310	0.117	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

Test Graphs

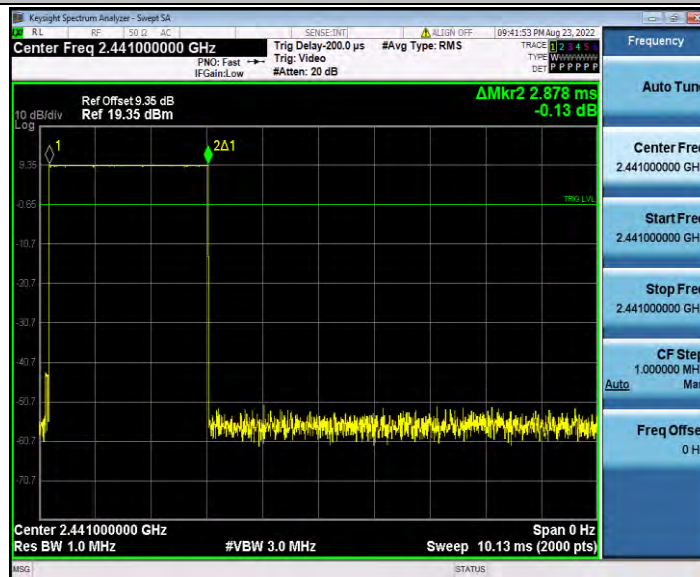
DH1_Ant1_Hop

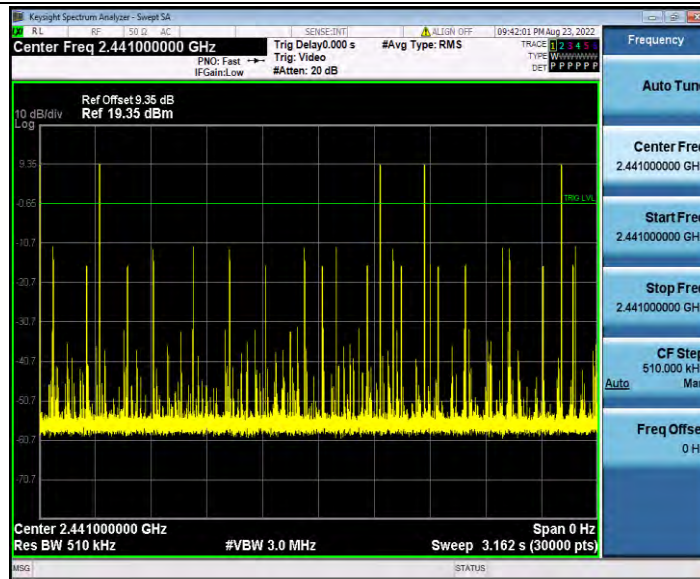


DH3_Ant1_Hop

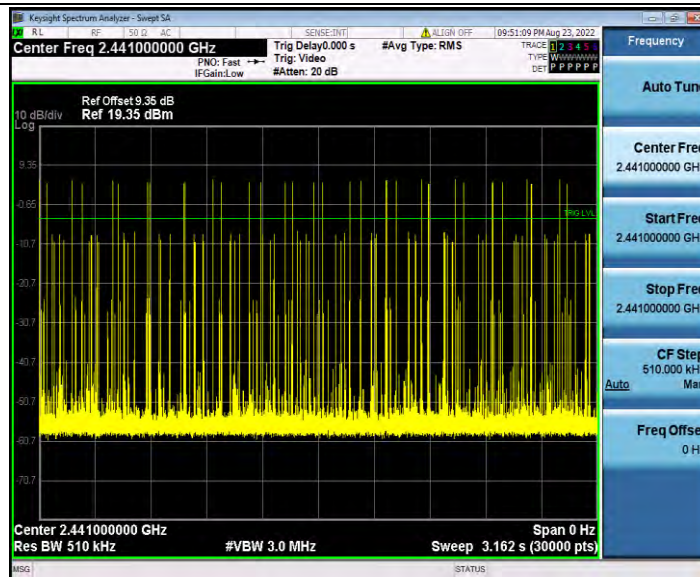
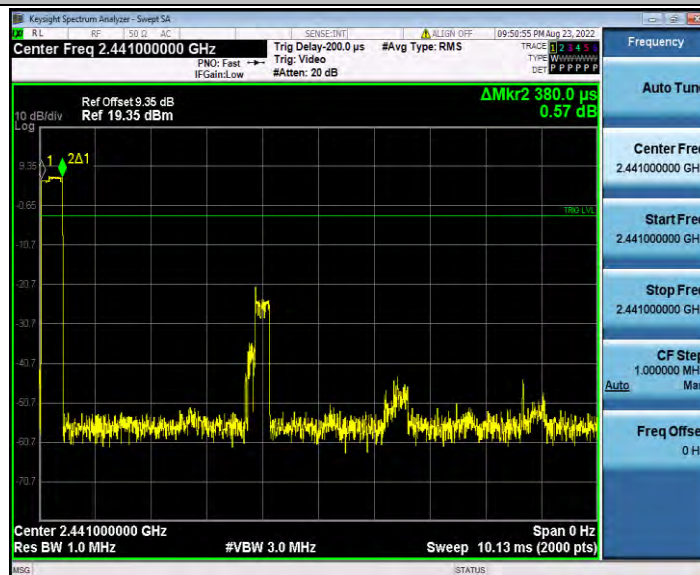


DH5_Ant1_Hop

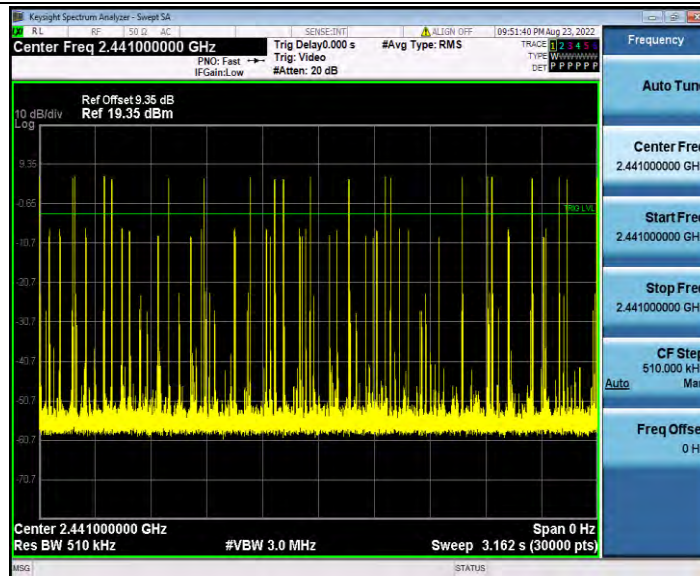
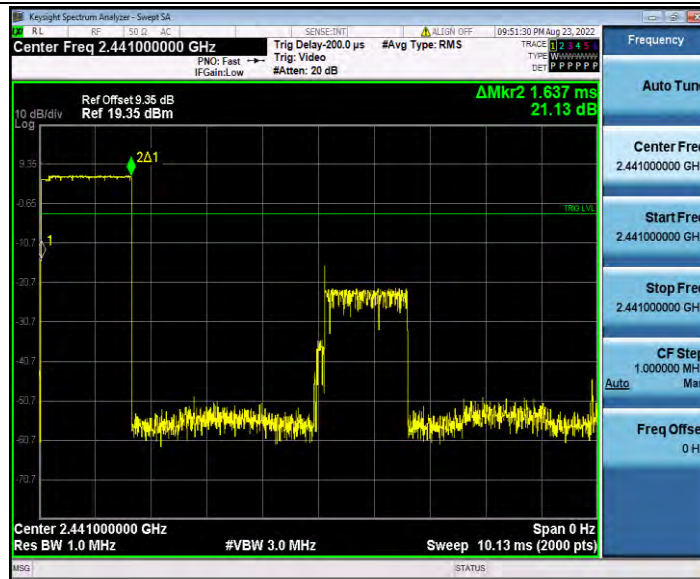




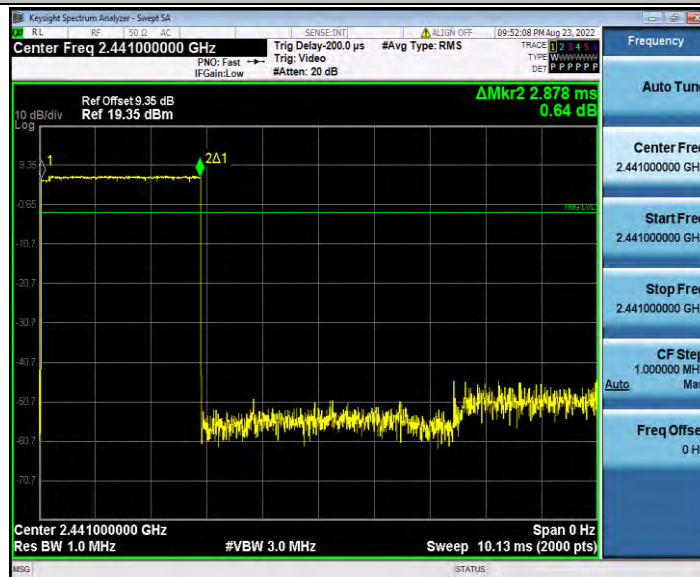
2DH1_Ant1_Hop

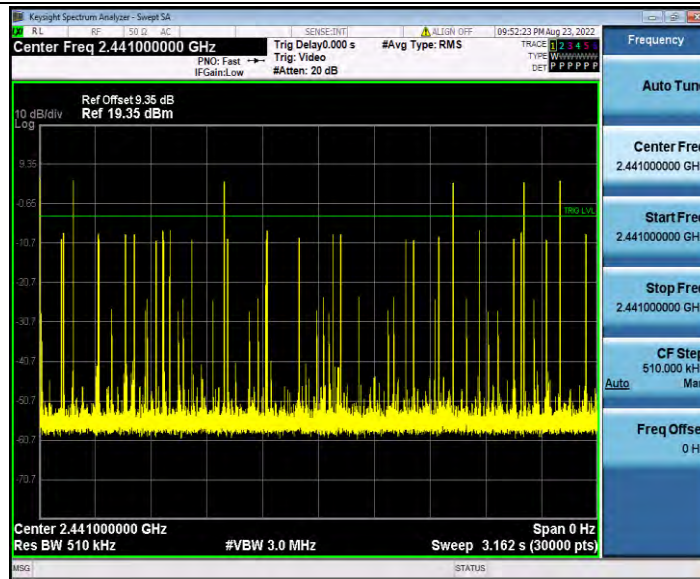


2DH3_Ant1_Hop

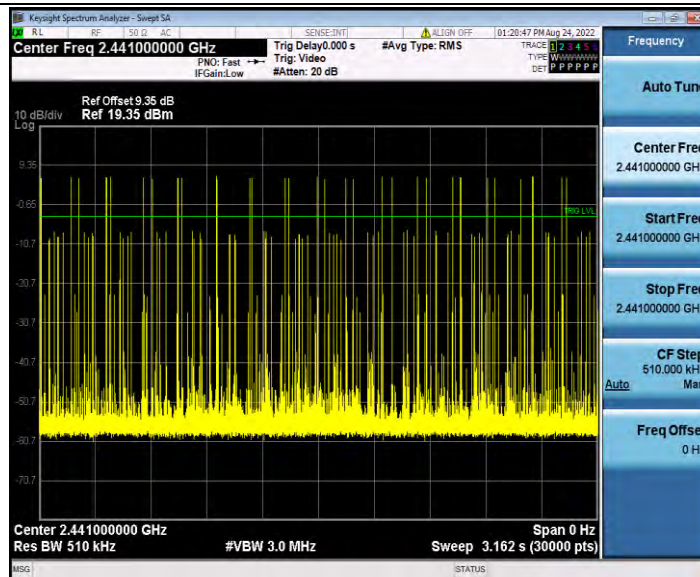
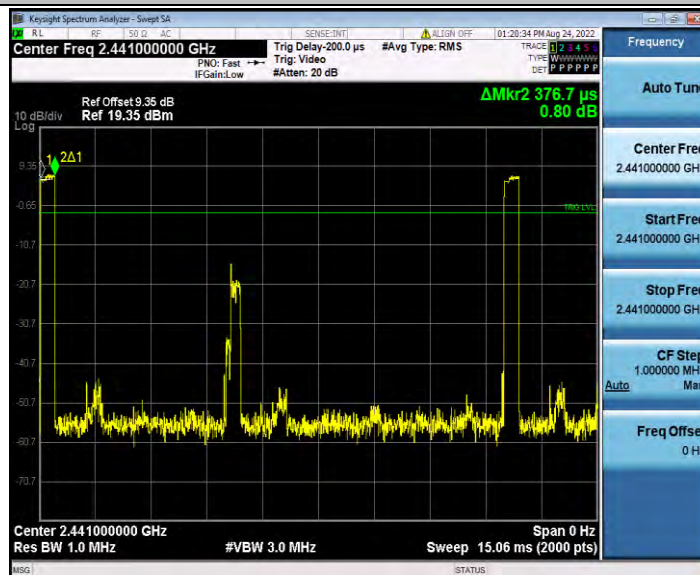


2DH5_Ant1_Hop

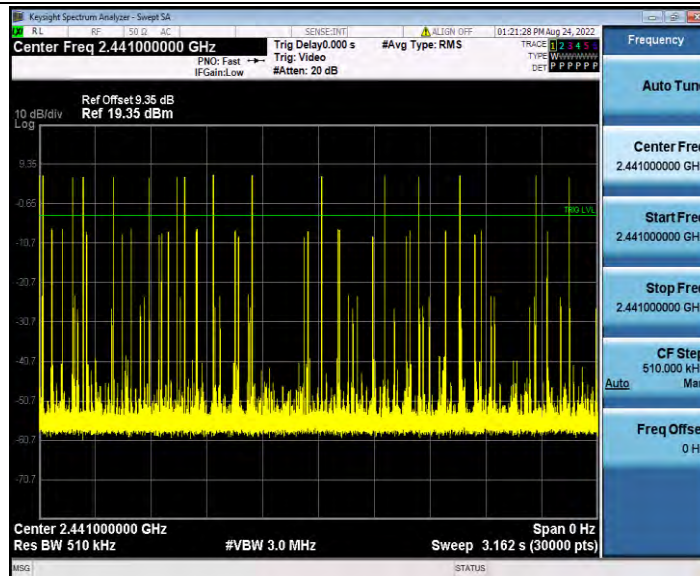
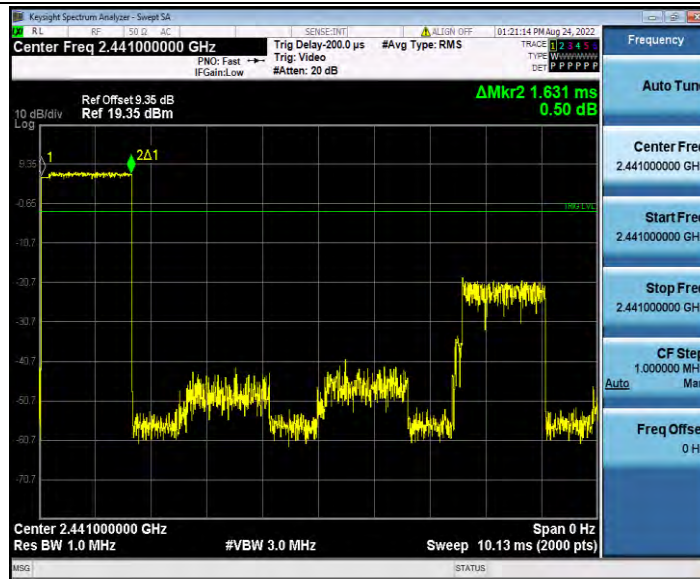




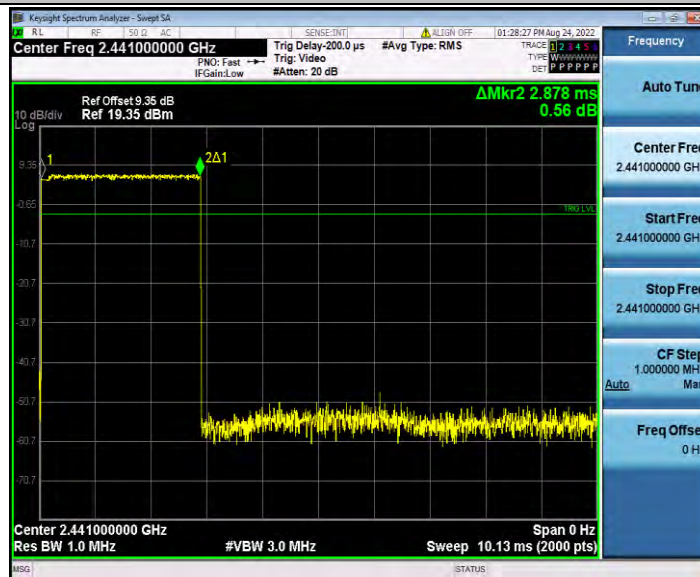
3DH1_Ant1_Hop

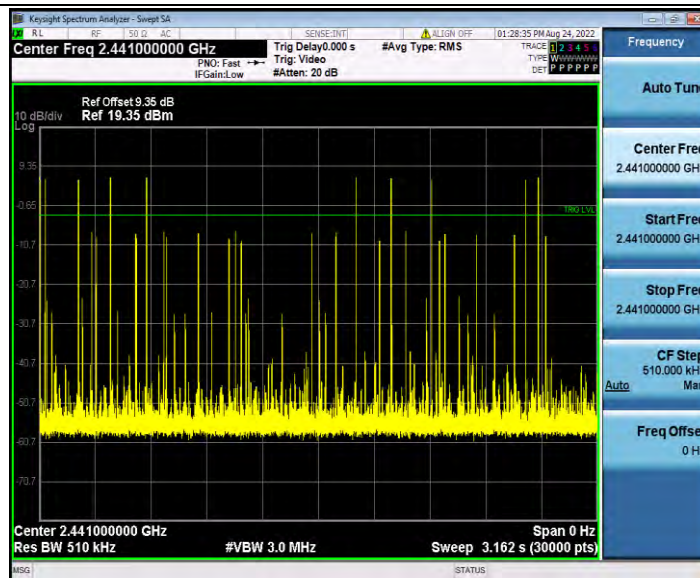


3DH3_Ant1_Hop



3DH5_Ant1_Hop





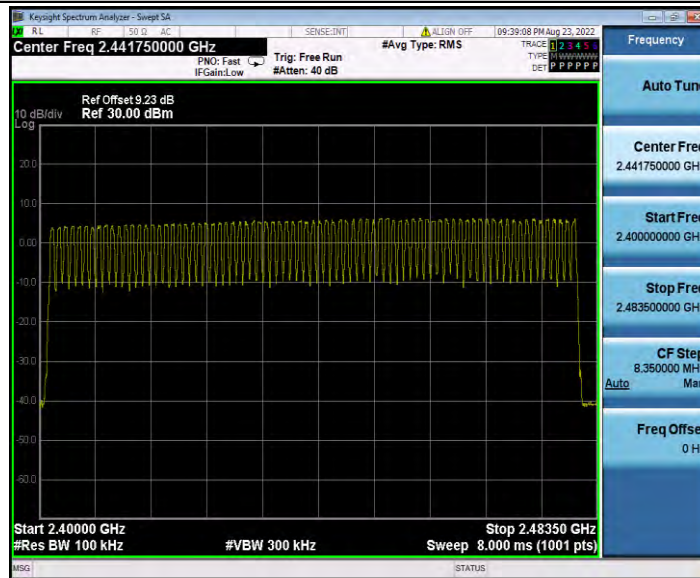
Appendix A.6: Number of hopping channels

Test Result

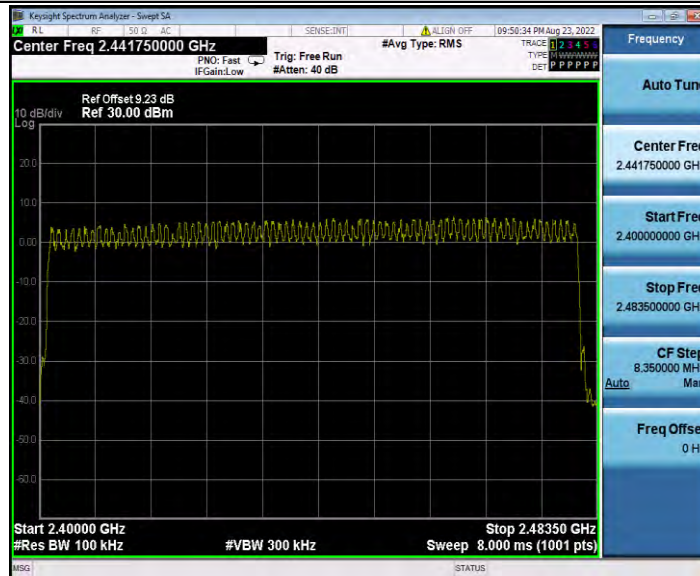
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

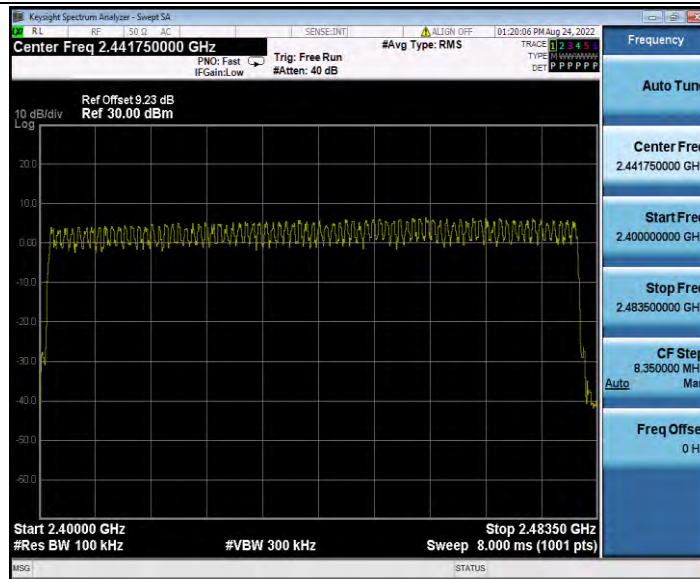
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



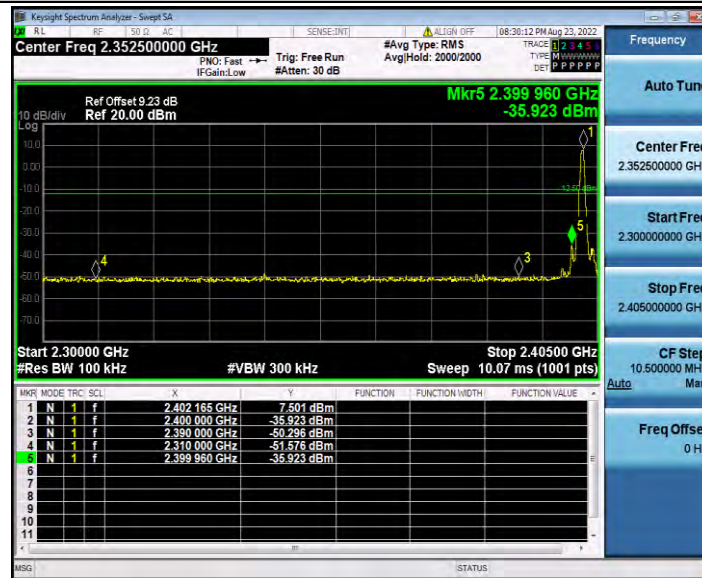
Appendix A.7: Band edge measurements

Test Result

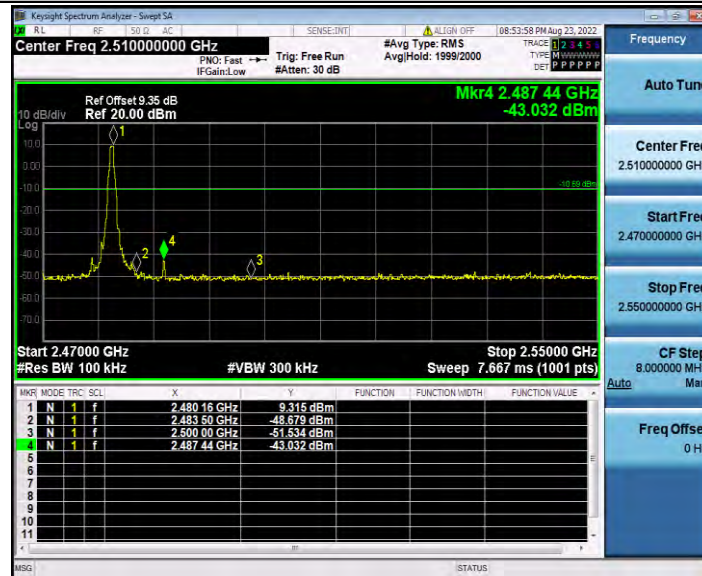
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.50	-35.92	≤-12.5	PASS
		High	2480	9.32	-43.03	≤-10.69	PASS
		Low	Hop_2402	7.26	-48.88	≤-12.74	PASS
		High	Hop_2480	9.53	-48.12	≤-10.47	PASS
2DH1	Ant1	Low	2402	4.06	-38.29	≤-15.94	PASS
		High	2480	5.11	-43.26	≤-14.89	PASS
		Low	Hop_2402	3.88	-48.96	≤-16.12	PASS
		High	Hop_2480	6.20	-47.99	≤-13.8	PASS
3DH1	Ant1	Low	2402	4.14	-38.45	≤-15.86	PASS
		High	2480	5.20	-42.06	≤-14.8	PASS
		Low	Hop_2402	4.09	-49.5	≤-15.91	PASS
		High	Hop_2480	5.76	-47.98	≤-14.24	PASS

Test Graphs

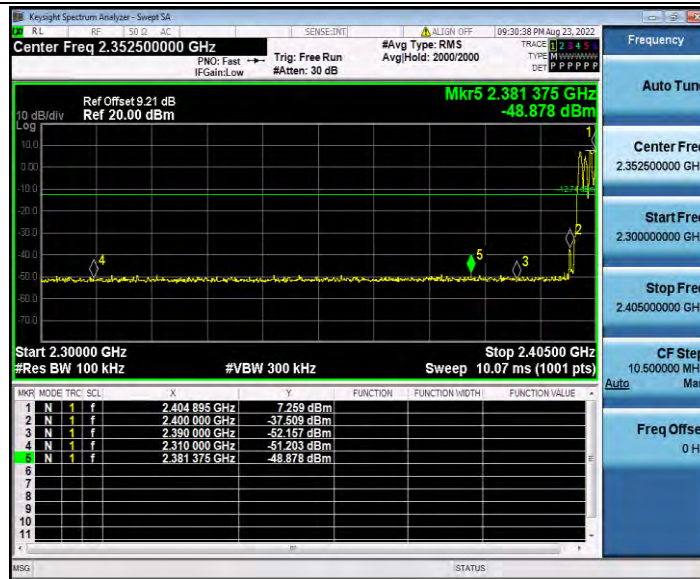
DH1_Ant1_Low_2402



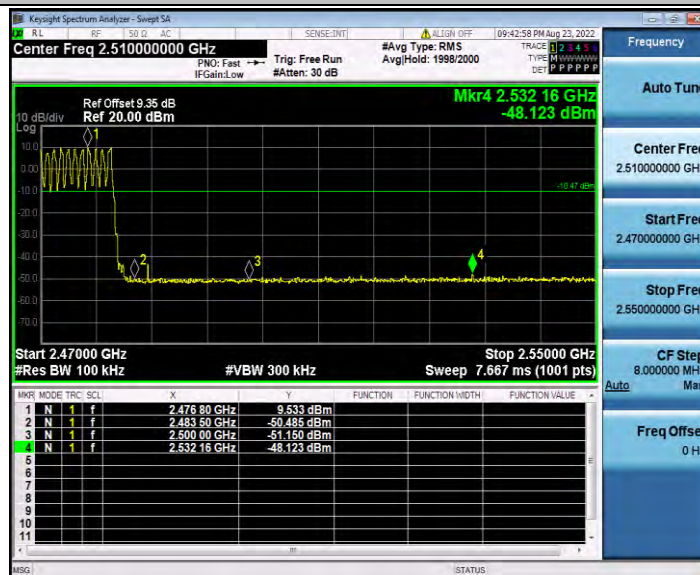
DH1_Ant1_High_2480



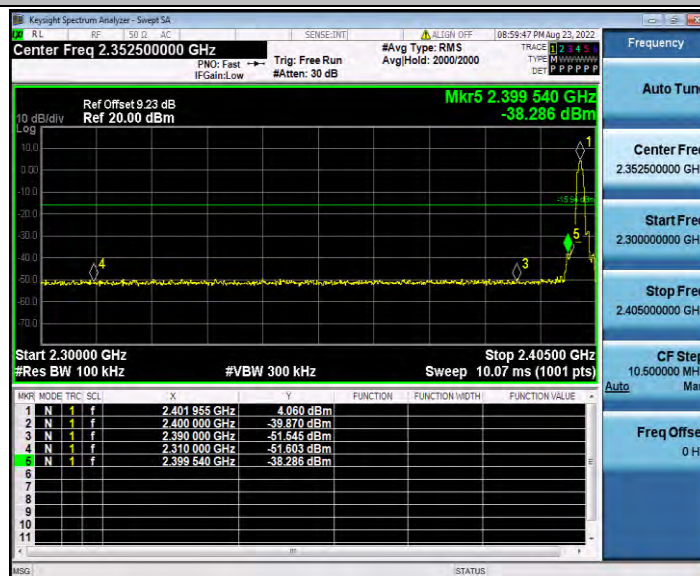
DH1_Ant1_Low_Hop_2402



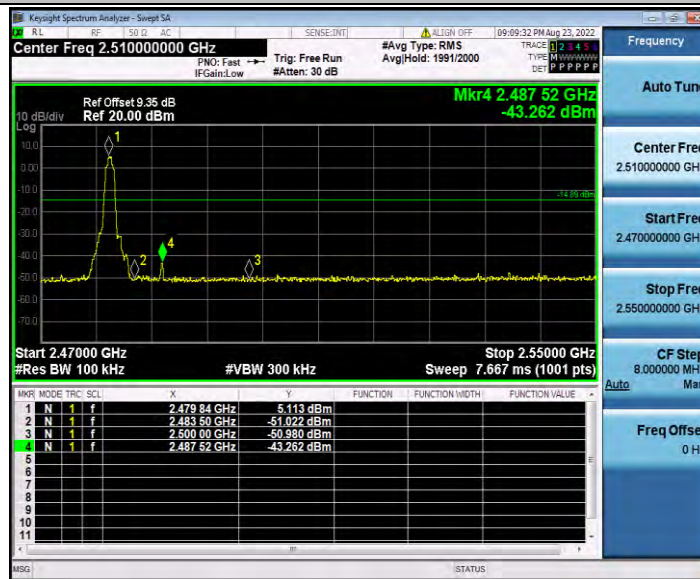
DH1_Ant1_High_Hop_2480



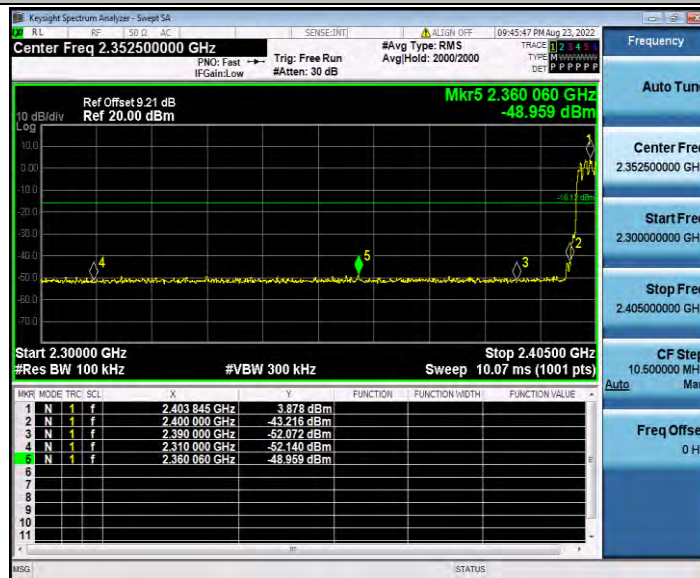
2DH1_Ant1_Low_2402



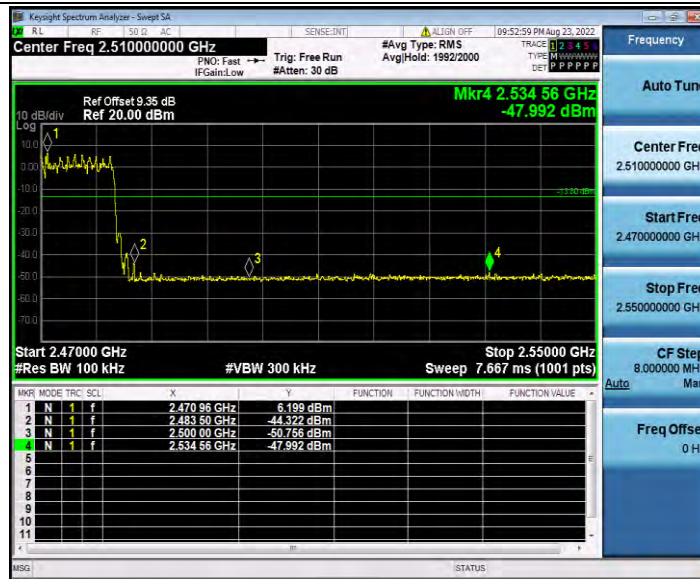
2DH1_Ant1_High_2480



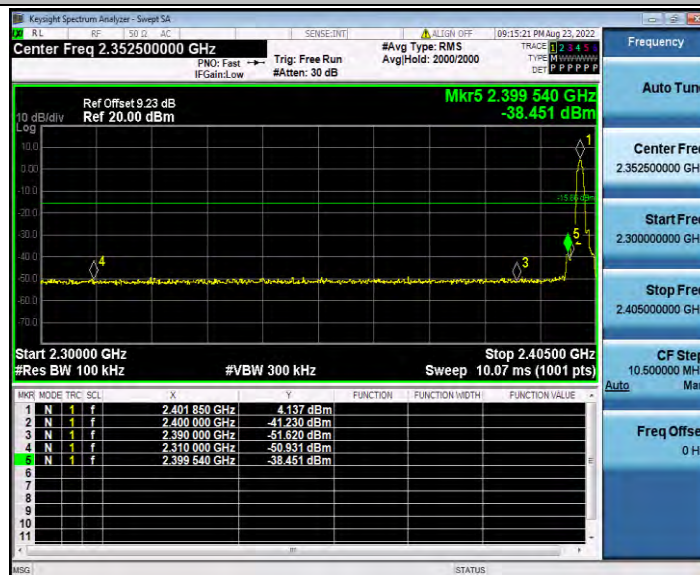
2DH1_Ant1_Low_Hop_2402



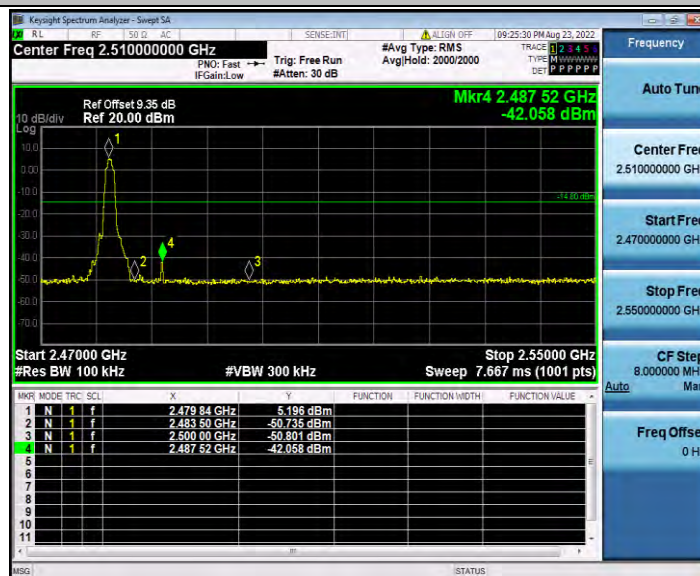
2DH1_Ant1_High_Hop_2480



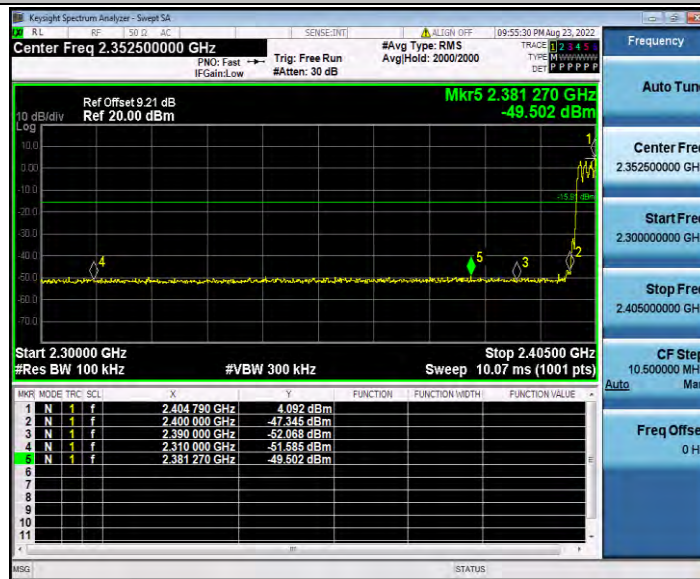
3DH1_Ant1_Low_2402



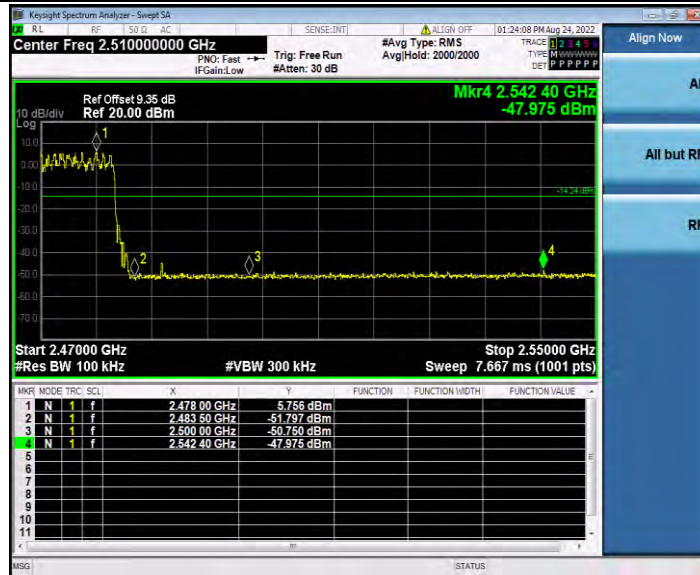
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

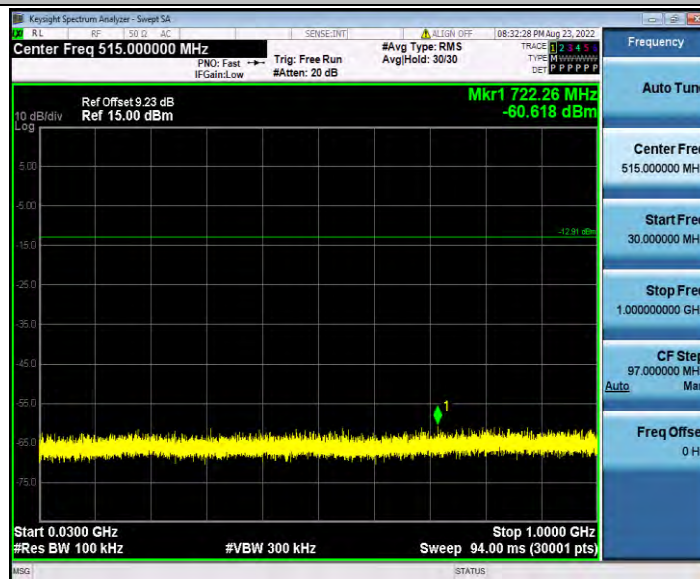
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.09	7.09	---	PASS
			30~1000	7.09	-60.62	≤-12.91	PASS
			1000~26500	7.09	-47.53	≤-12.91	PASS
		2441	Reference	8.39	8.39	---	PASS
			30~1000	8.39	-59.82	≤-11.61	PASS
			1000~26500	8.39	-46.95	≤-11.61	PASS
		2480	Reference	9.13	9.13	---	PASS
			30~1000	9.13	-60.5	≤-10.87	PASS
			1000~26500	9.13	-47.76	≤-10.87	PASS
2DH1	Ant1	2402	Reference	3.72	3.72	---	PASS
			30~1000	3.72	-60.33	≤-16.28	PASS
			1000~26500	3.72	-48.11	≤-16.28	PASS
		2441	Reference	5.68	5.68	---	PASS
			30~1000	5.68	-60.8	≤-14.32	PASS
			1000~26500	5.68	-47.2	≤-14.32	PASS
		2480	Reference	4.87	4.87	---	PASS
			30~1000	4.87	-60.22	≤-15.13	PASS
			1000~26500	4.87	-47.39	≤-15.13	PASS
3DH1	Ant1	2402	Reference	3.96	3.96	---	PASS
			30~1000	3.96	-60.47	≤-16.04	PASS
			1000~26500	3.96	-47.71	≤-16.04	PASS
		2441	Reference	5.70	5.70	---	PASS
			30~1000	5.70	-60.21	≤-14.3	PASS
			1000~26500	5.70	-47.73	≤-14.3	PASS
		2480	Reference	5.05	5.05	---	PASS
			30~1000	5.05	-60.63	≤-14.95	PASS
			1000~26500	5.05	-47.25	≤-14.95	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



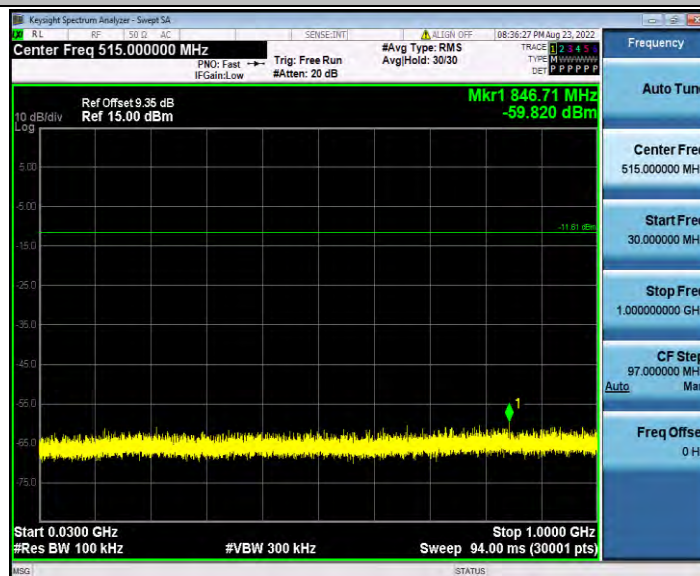
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



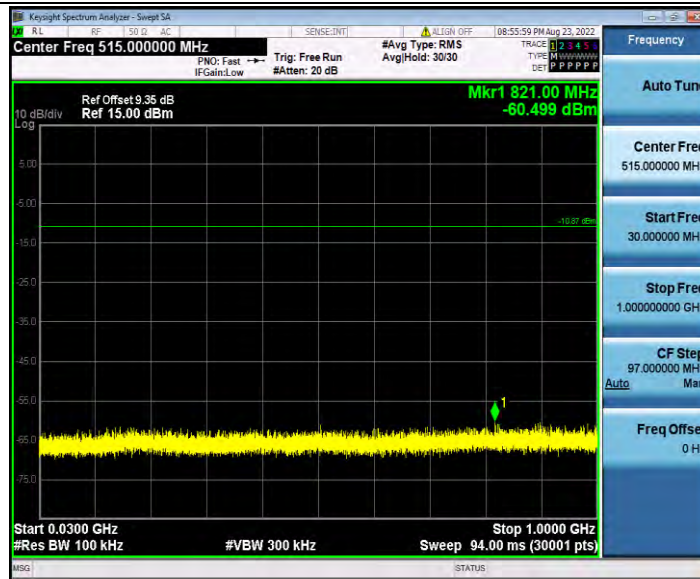
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



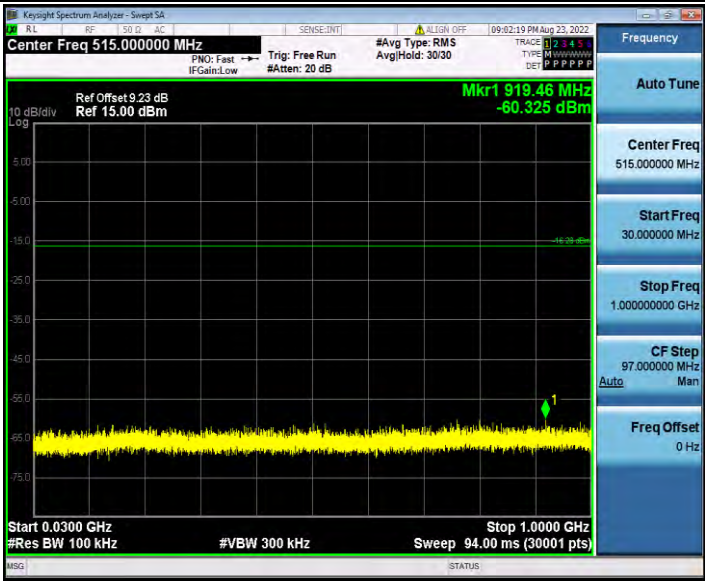
DH1_Ant1_2480_1000~26500



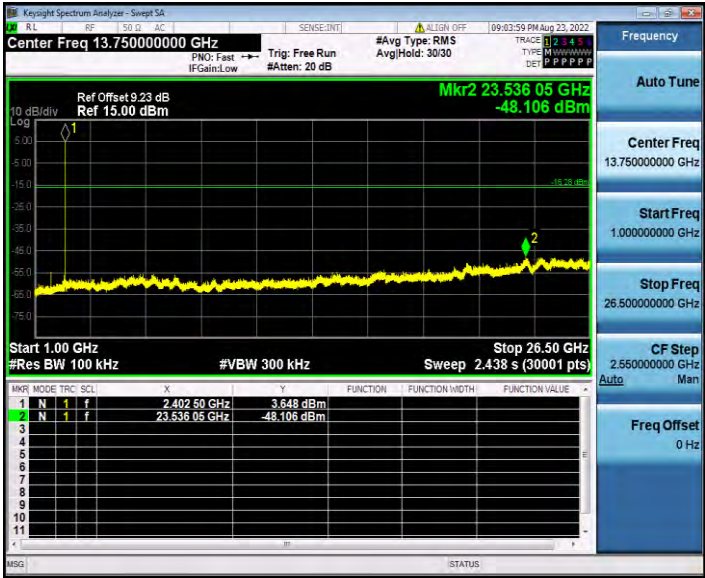
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



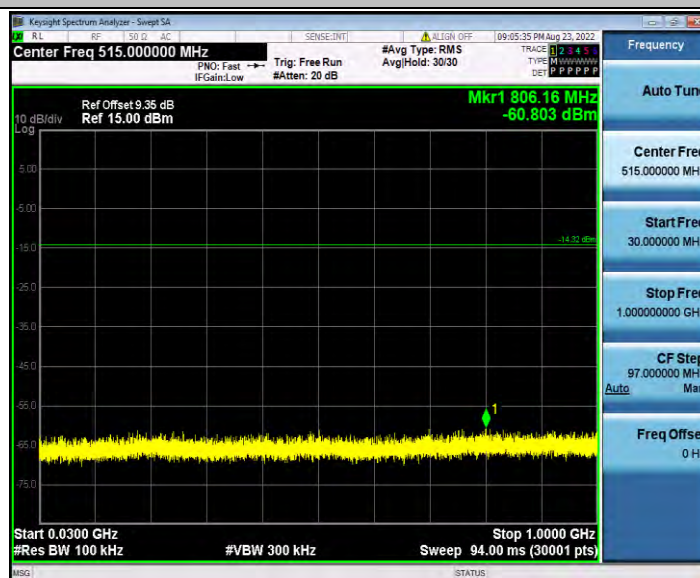
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1 Ant1 2441 30~1000



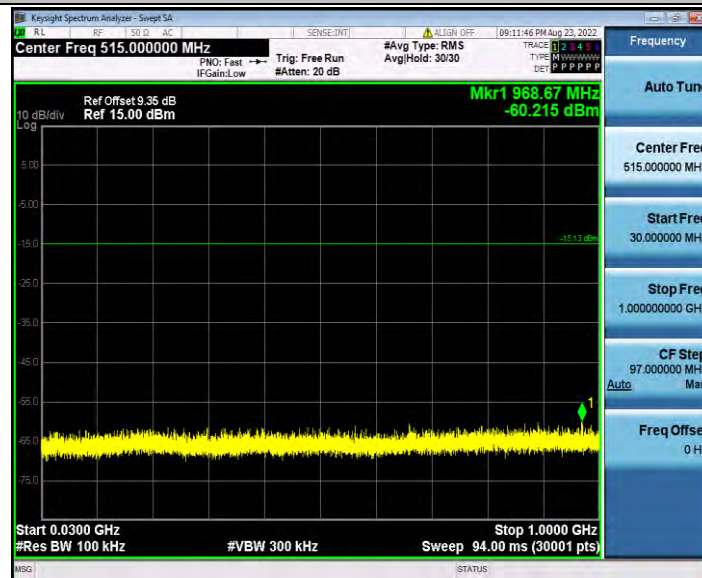
2DH1 Ant1 2441 1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



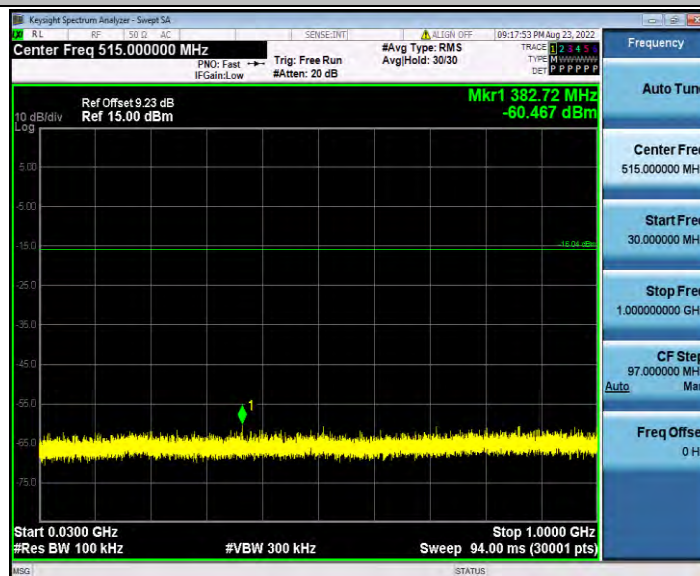
2DH1_Ant1_2480_1000~26500



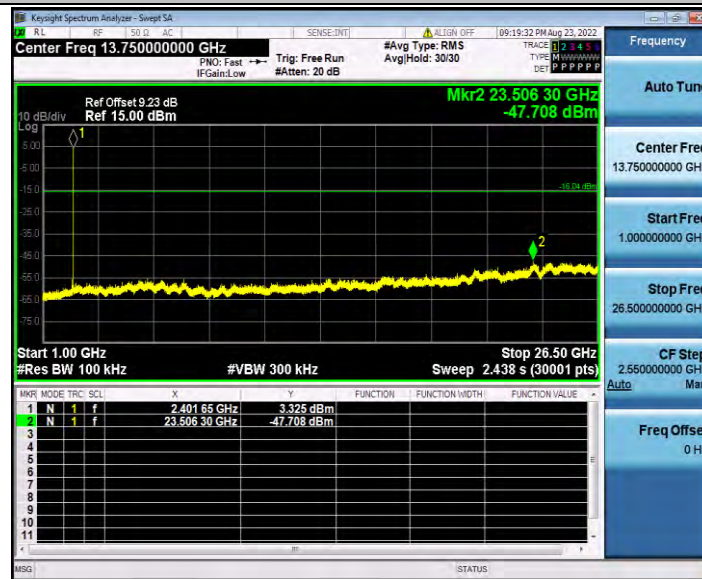
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



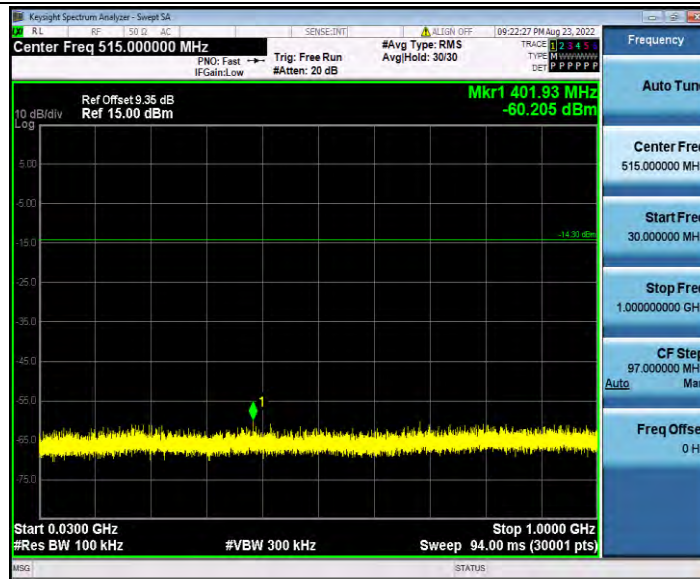
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



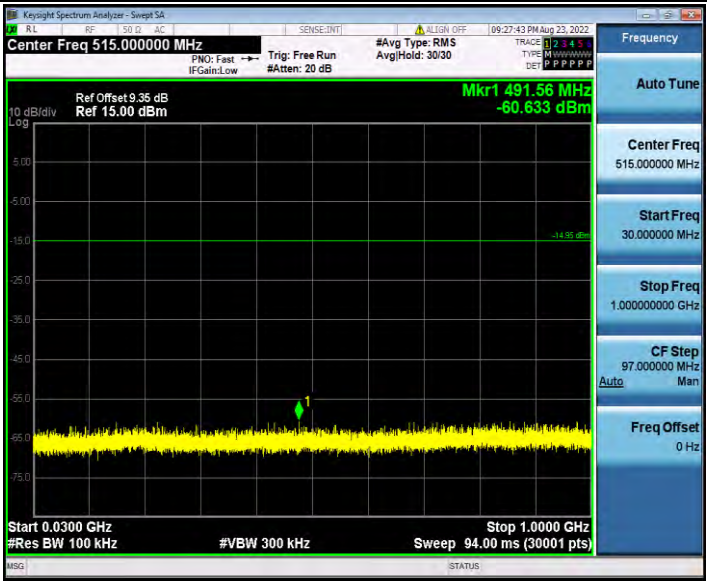
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

