

Case No. : GTS20221219016-1-1	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.1.4	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	0.954	2401.535	2402.489	---	---
		2441	0.942	2440.538	2441.480	---	---
		2480	0.948	2479.532	2480.480	---	---
2DH1	Ant1	2402	1.404	2401.283	2402.687	---	---
		2441	1.431	2440.265	2441.696	---	---
		2480	1.437	2479.256	2480.693	---	---
3DH1	Ant1	2402	1.401	2401.265	2402.666	---	---
		2441	1.455	2440.262	2441.717	---	---
		2480	1.437	2479.271	2480.708	---	---

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	0.84841	2401.570	2402.419	---	---
		2441	0.84662	2440.568	2441.415	---	---
		2480	0.84903	2479.566	2480.415	---	---
2DH1	Ant1	2402	1.3434	2401.314	2402.657	---	---
		2441	1.3350	2440.322	2441.657	---	---
		2480	1.3507	2479.311	2480.662	---	---
3DH1	Ant1	2402	1.3399	2401.314	2402.653	---	---
		2441	1.3363	2440.320	2441.657	---	---
		2480	1.3388	2479.322	2480.660	---	---

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	6.92	≤30.00	PASS
		2441	6.00	≤30.00	PASS
		2480	8.88	≤30.00	PASS
2DH1	Ant1	2402	5.72	≤20.97	PASS
		2441	6.97	≤20.97	PASS
		2480	7.46	≤20.97	PASS
3DH1	Ant1	2402	5.80	≤20.97	PASS
		2441	7.12	≤20.97	PASS
		2480	7.65	≤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	≥ 0.954	PASS
		Hop_2441	1.014	≥ 0.954	PASS
		Hop_2480	1.308	≥ 0.954	PASS
2DH1	Ant1	Hop_2402	0.998	≥ 0.958	PASS
		Hop_2441	1.022	≥ 0.958	PASS
		Hop_2480	1.16	≥ 0.958	PASS
3DH1	Ant1	Hop_2402	0.988	≥ 0.970	PASS
		Hop_2441	1.01	≥ 0.970	PASS
		Hop_2480	0.982	≥ 0.970	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



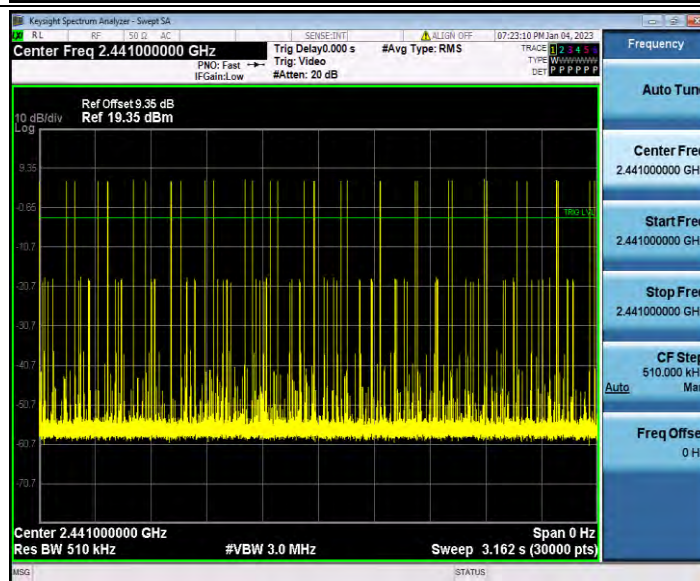
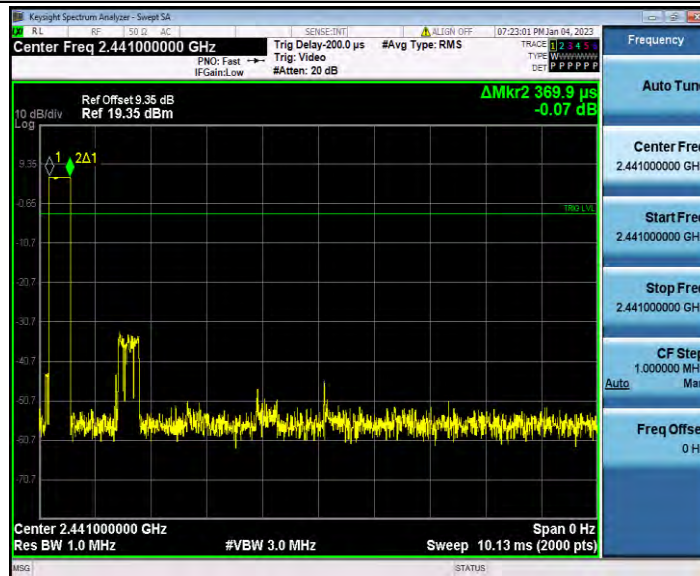
Appendix A.5: Time of occupancy

Test Result

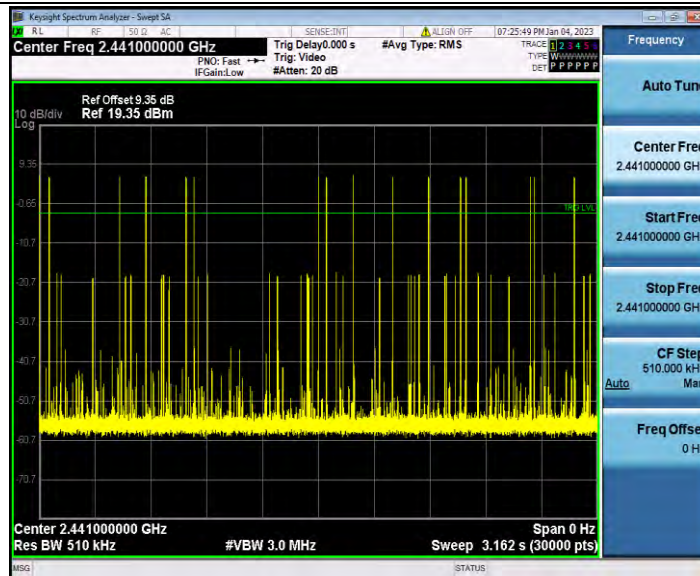
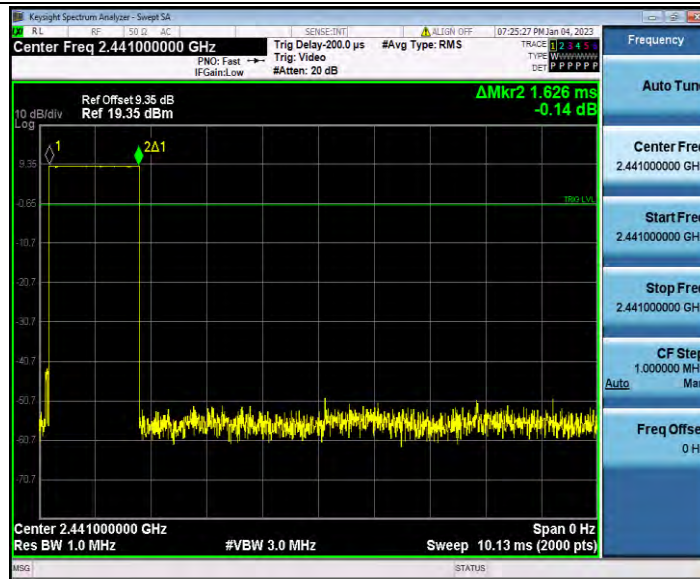
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.63	150	0.245	≤0.4	PASS
2DH5	Ant1	Hop	2.88	50	0.144	≤0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.63	140	0.228	≤0.4	PASS
3DH5	Ant1	Hop	2.88	50	0.144	≤0.4	PASS

Test Graphs

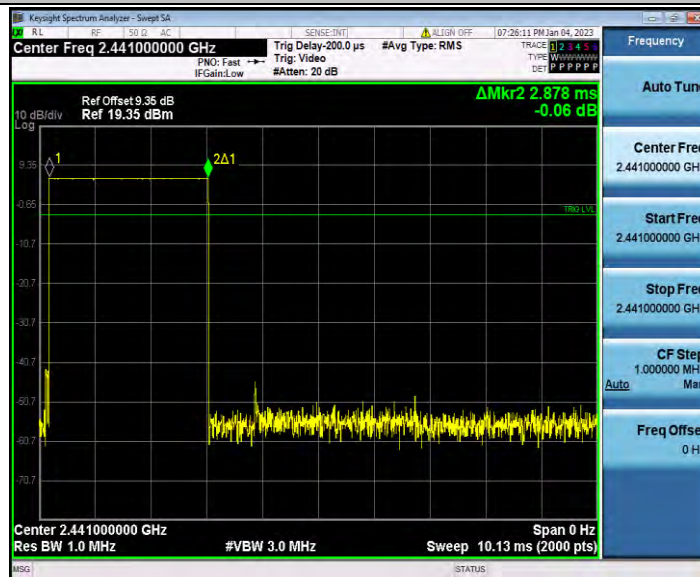
DH1_Ant1_Hop

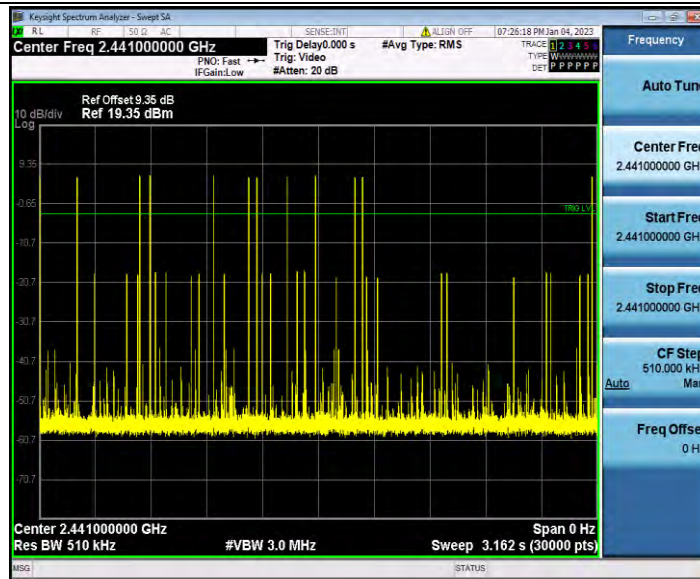


DH3_Ant1_Hop

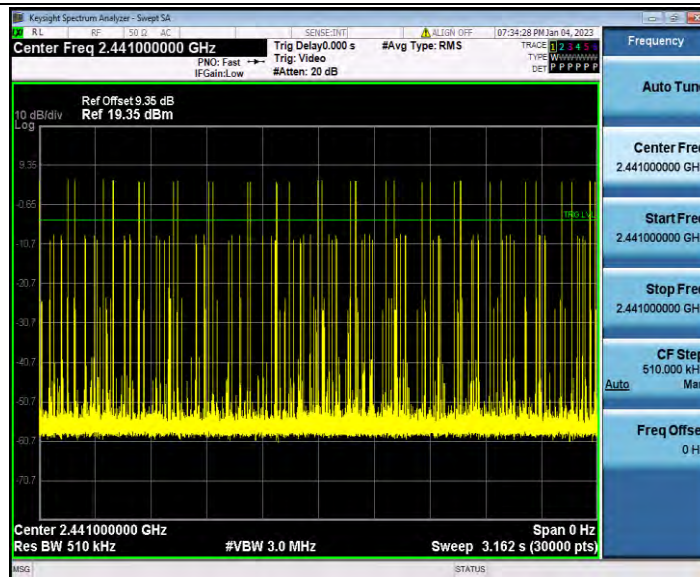
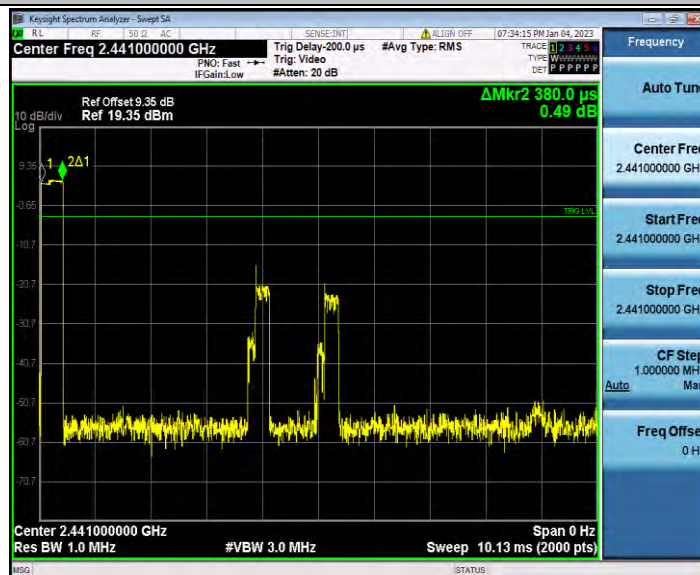


DH5_Ant1_Hop

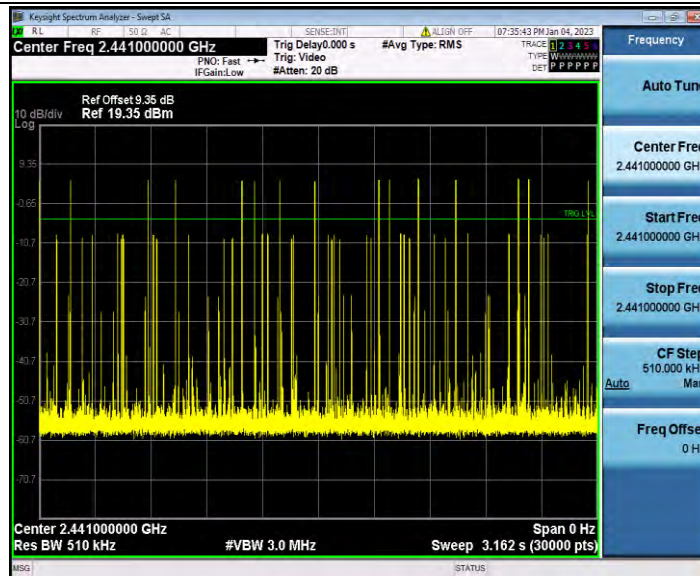
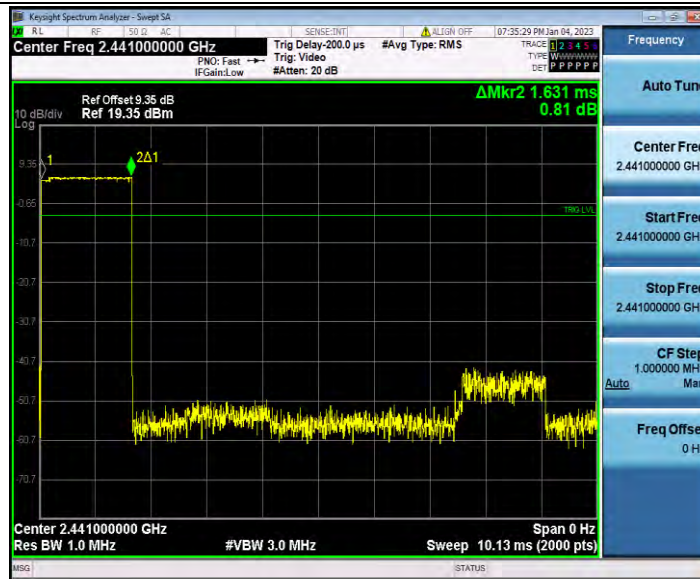




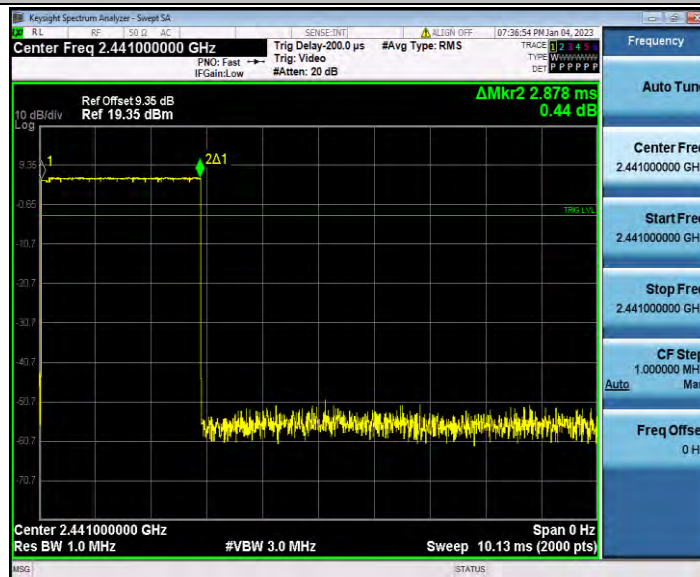
2DH1_Ant1_Hop

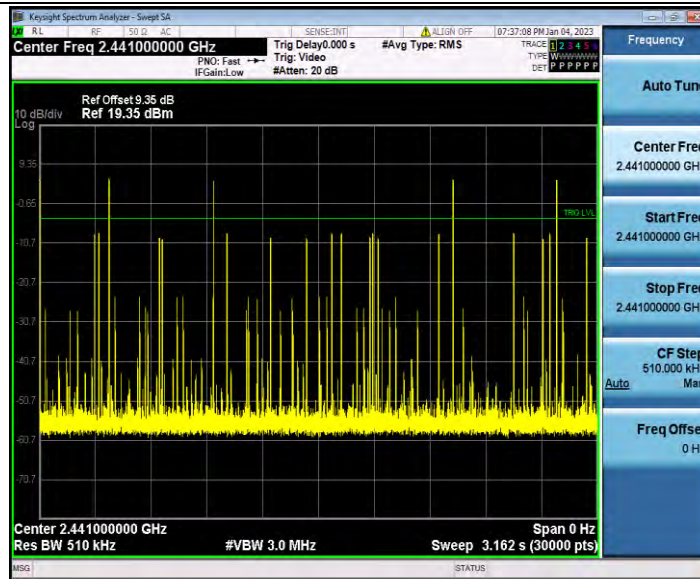


2DH3_Ant1_Hop

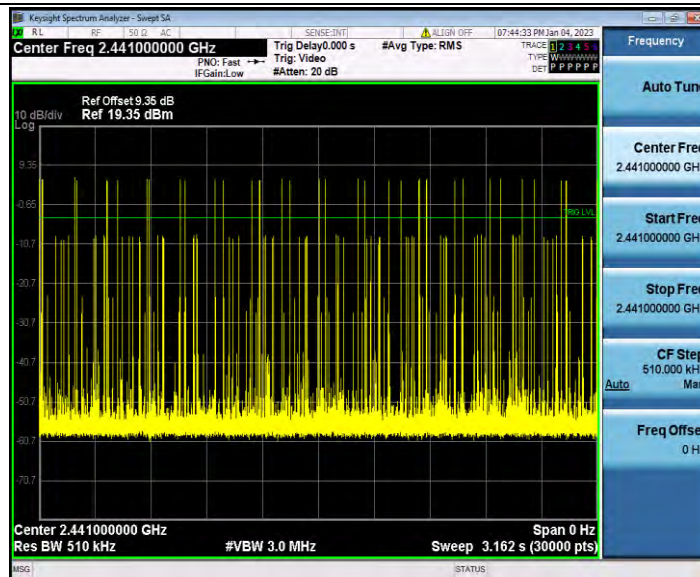
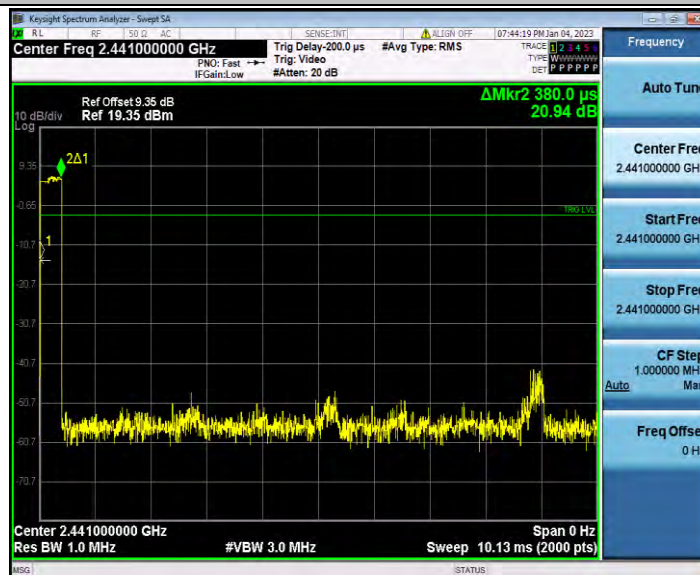


2DH5_Ant1_Hop

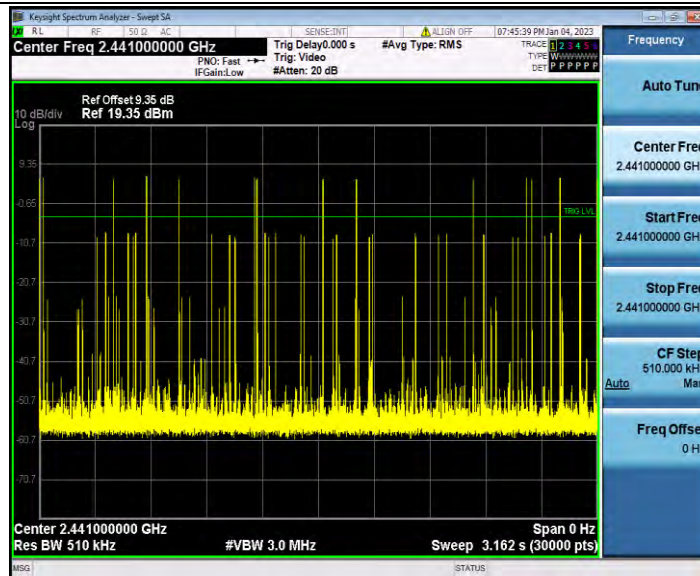
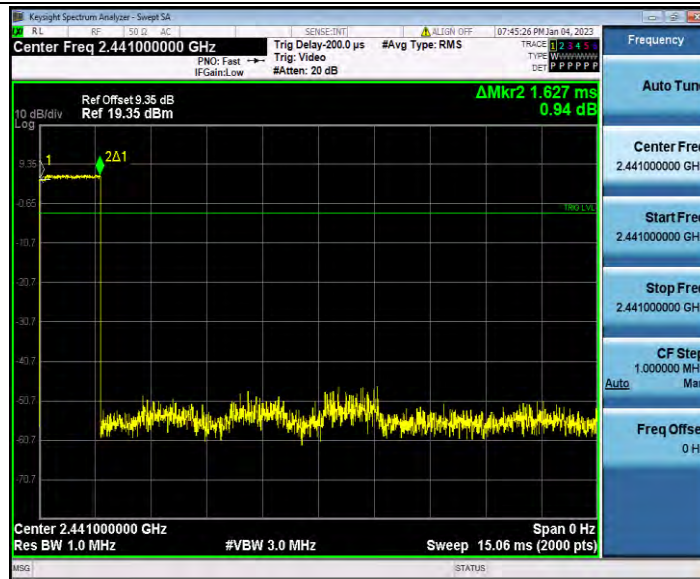




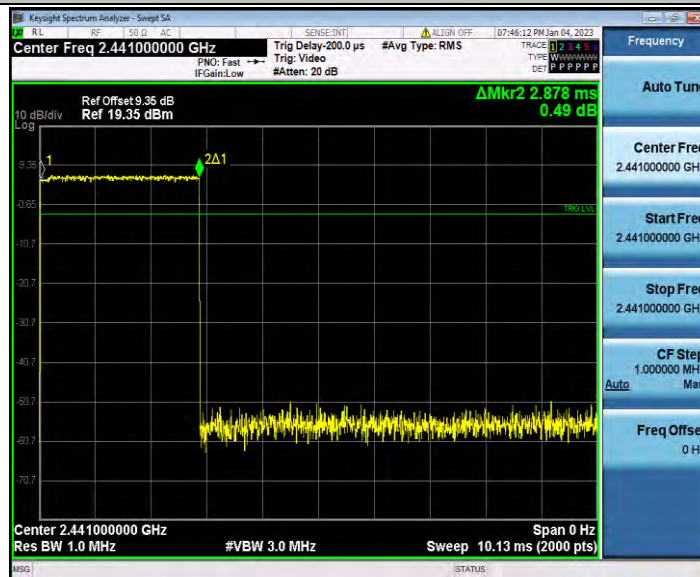
3DH1_Ant1_Hop

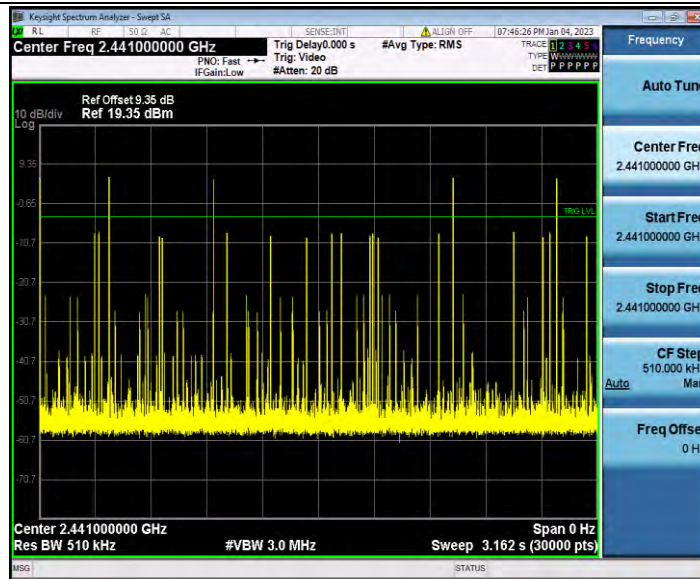


3DH3_Ant1_Hop



3DH5_Ant1_Hop



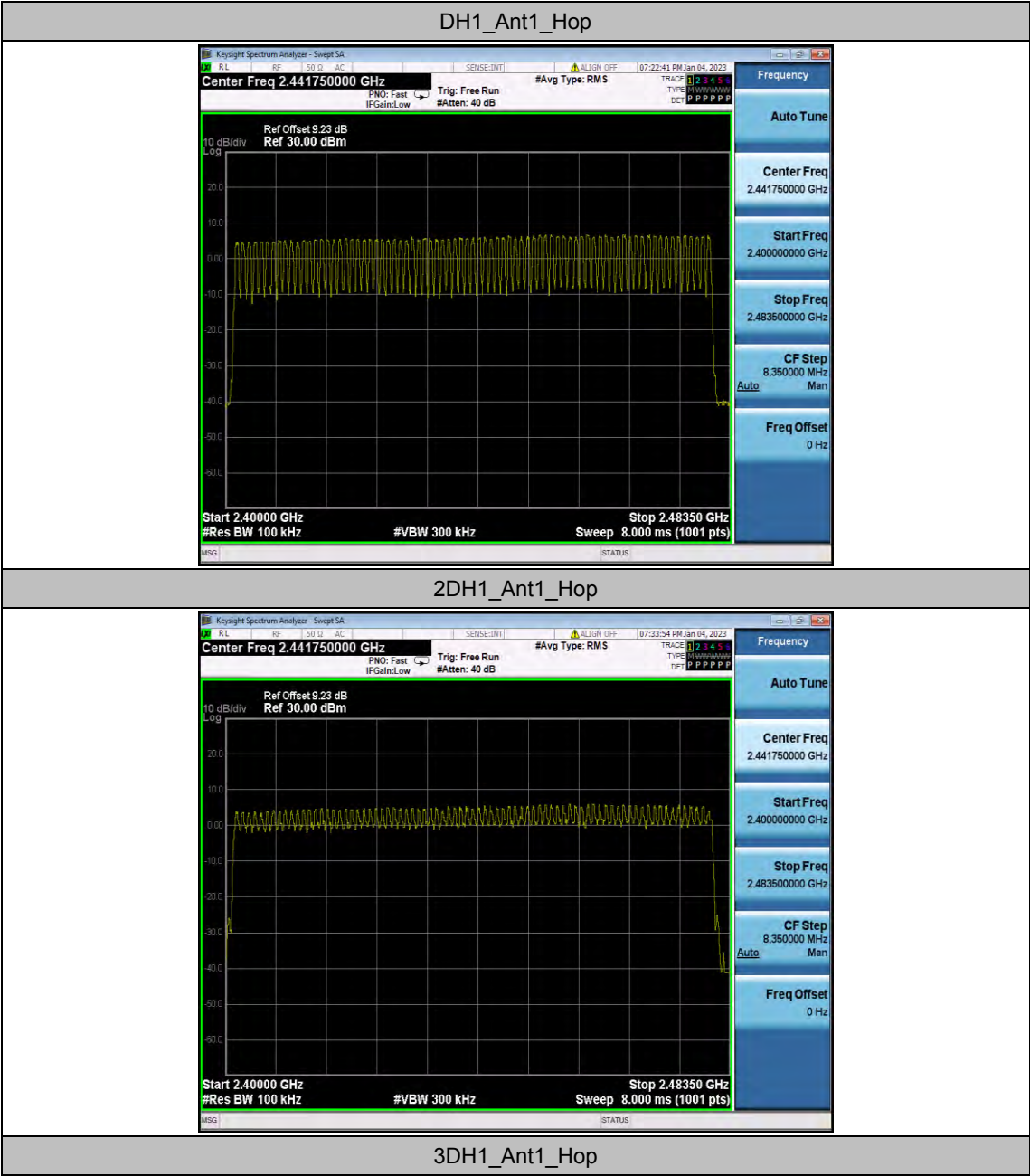


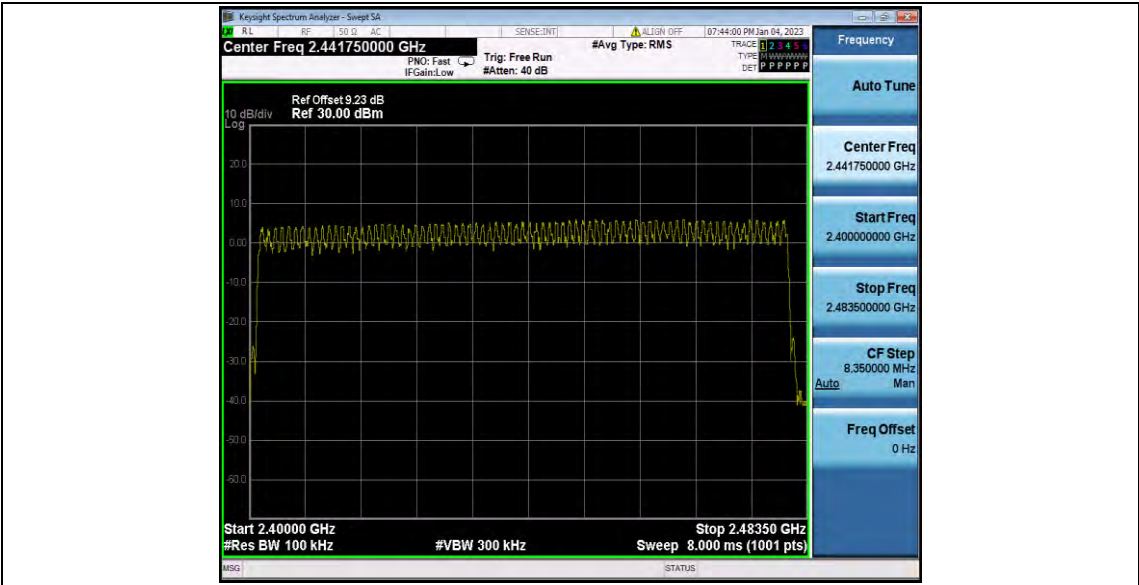
Appendix A.6: Number of hopping channels

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





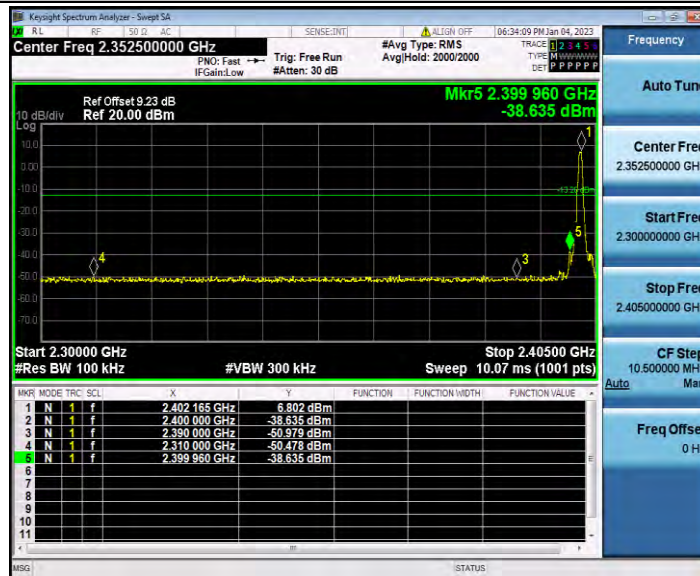
Appendix A.7: Band edge measurements

Test Result

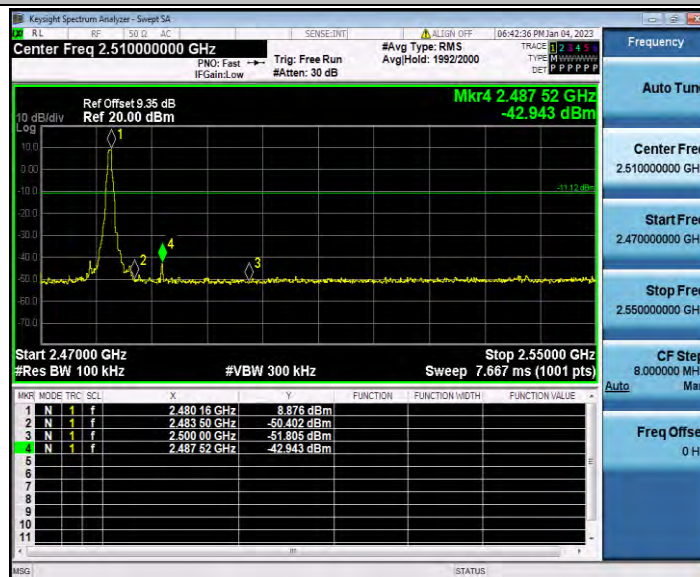
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	6.80	-38.64	≤-13.2	PASS
		High	2480	8.88	-42.94	≤-11.12	PASS
		Low	Hop_2402	4.39	-48.94	≤-15.61	PASS
		High	Hop_2480	6.36	-48.27	≤-13.64	PASS
2DH1	Ant1	Low	2402	3.99	-38.47	≤-16.01	PASS
		High	2480	5.64	-43.26	≤-14.37	PASS
		Low	Hop_2402	3.55	-48.89	≤-16.45	PASS
		High	Hop_2480	5.58	-47.84	≤-14.43	PASS
3DH1	Ant1	Low	2402	4.03	-37.87	≤-15.97	PASS
		High	2480	5.74	-42.94	≤-14.26	PASS
		Low	Hop_2402	3.56	-49.66	≤-16.44	PASS
		High	Hop_2480	5.63	-48.51	≤-14.38	PASS

Test Graphs

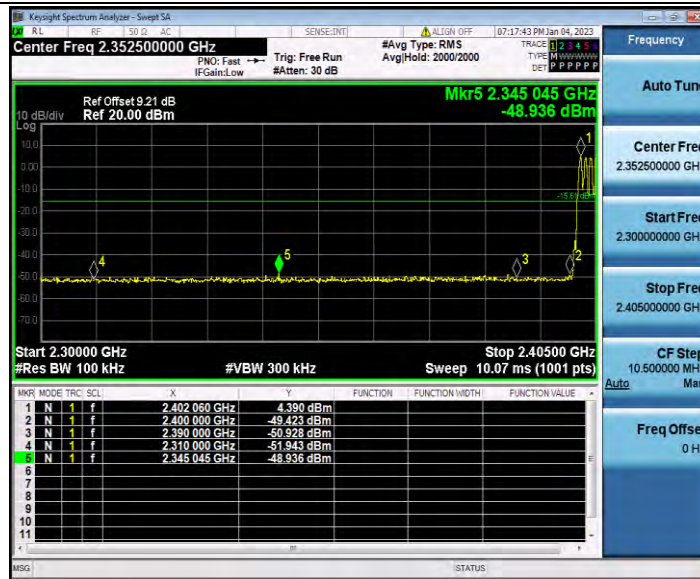
DH1_Ant1_Low_2402



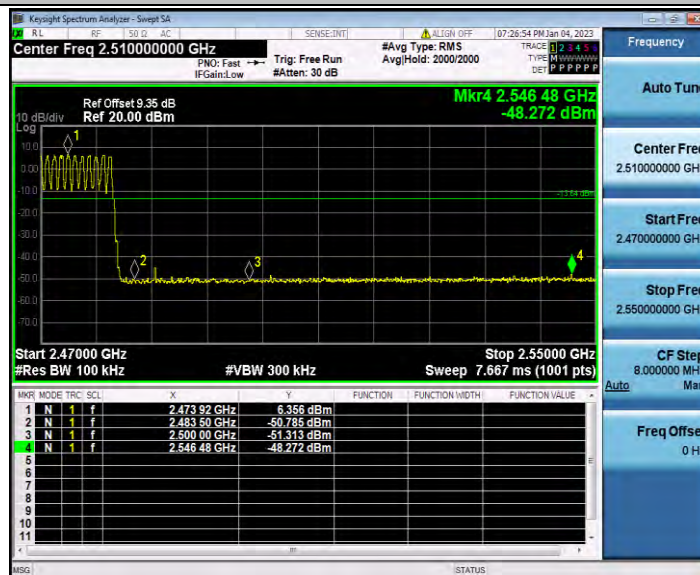
DH1_Ant1_High_2480



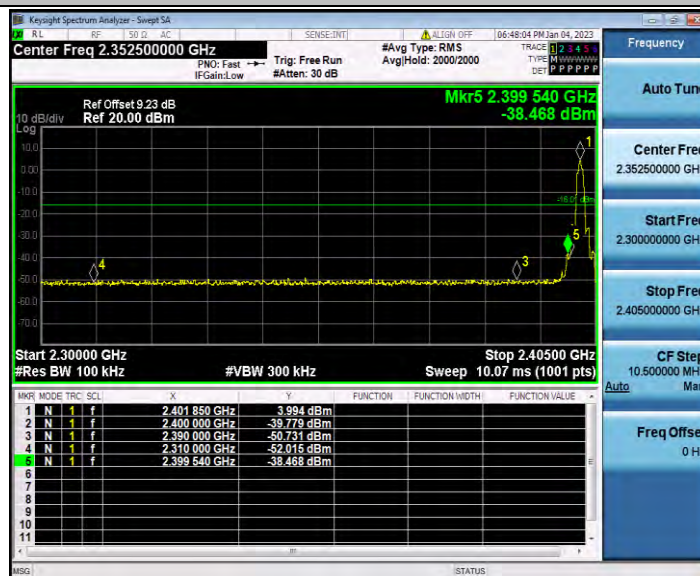
DH1_Ant1_Low_Hop_2402



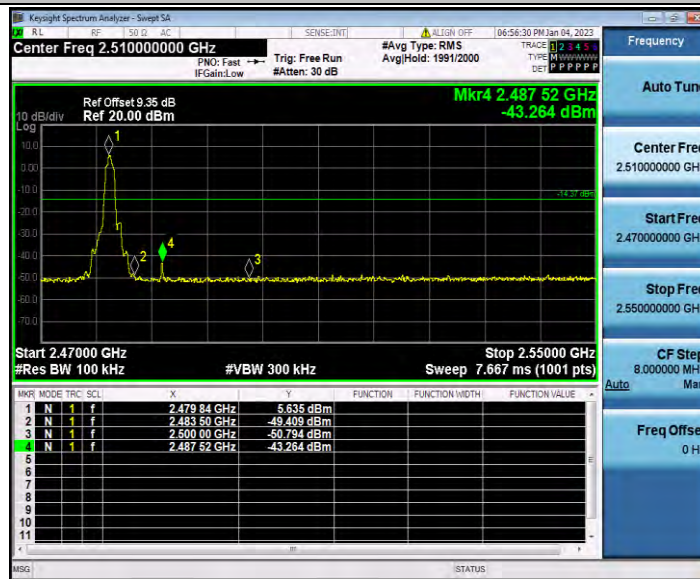
DH1_Ant1_High_Hop_2480



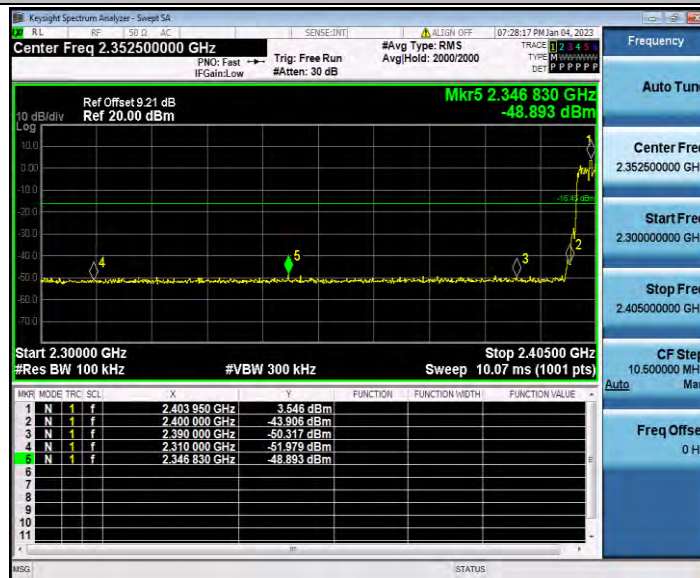
2DH1_Ant1_Low_2402



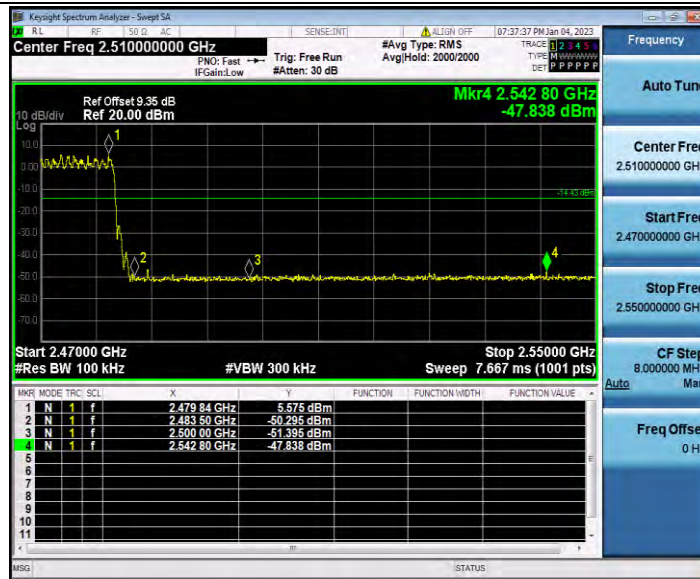
2DH1_Ant1_High_2480



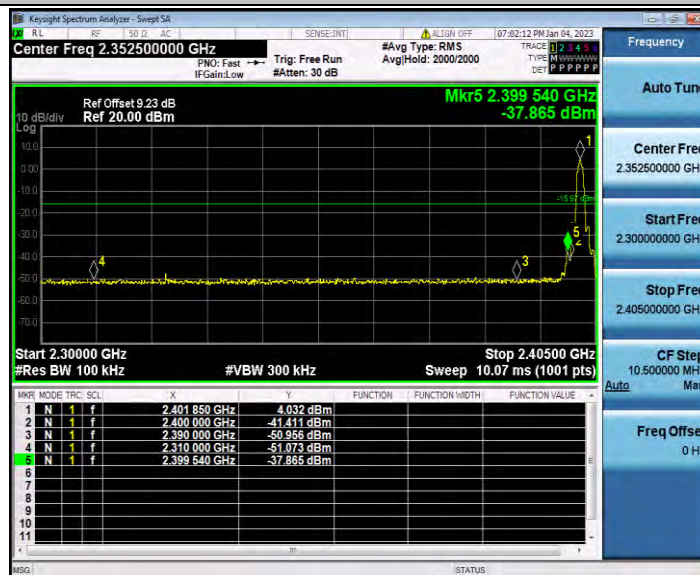
2DH1_Ant1_Low_Hop_2402



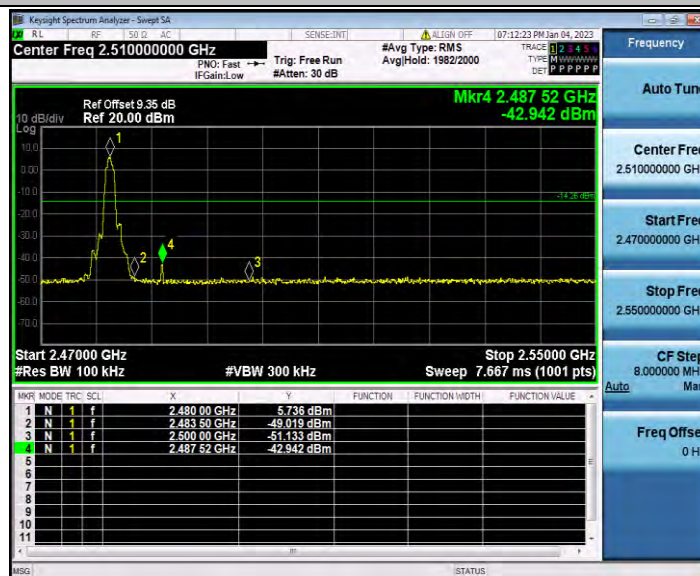
2DH1_Ant1_High_Hop_2480



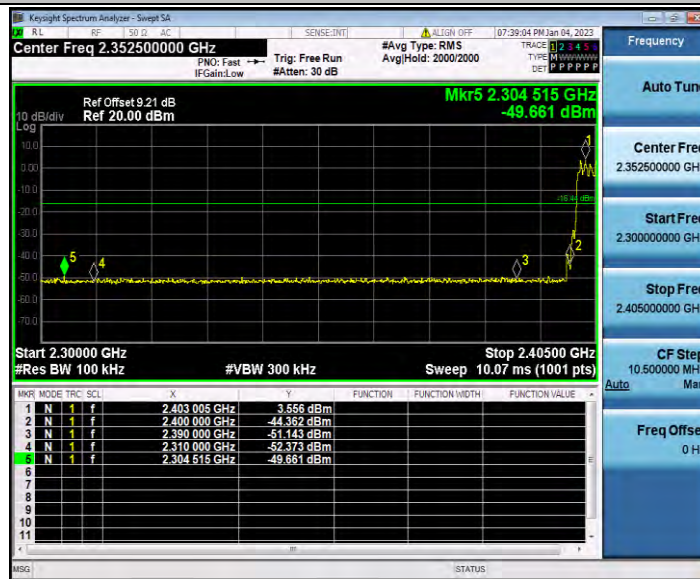
3DH1_Ant1_Low_2402



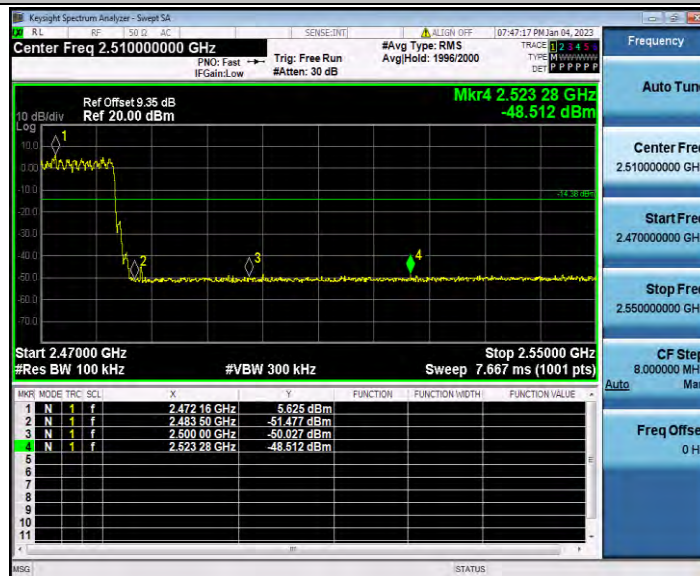
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

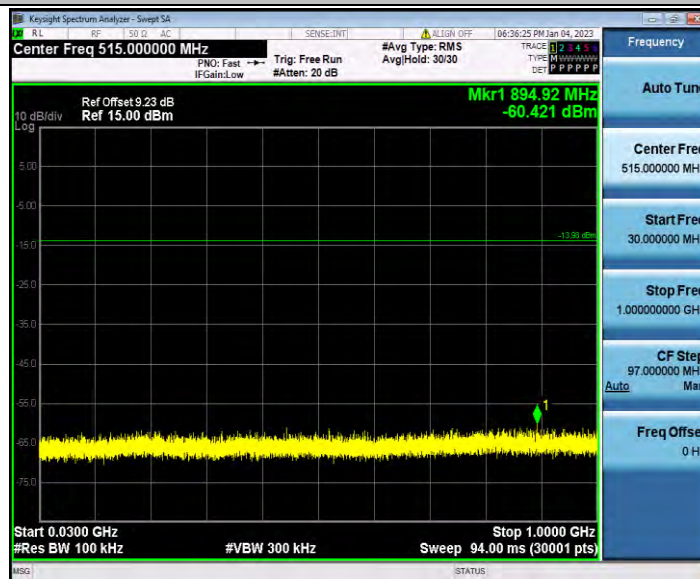
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-60.42	≤-13.98	PASS
			1000~26500	6.02	-47.36	≤-13.98	PASS
		2441	Reference	8.43	8.43	---	PASS
			30~1000	8.43	-60.53	≤-11.57	PASS
			1000~26500	8.43	-44.19	≤-11.57	PASS
		2480	Reference	8.46	8.46	---	PASS
			30~1000	8.46	-59.96	≤-11.54	PASS
			1000~26500	8.46	-47.26	≤-11.54	PASS
2DH1	Ant1	2402	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-60.49	≤-16.19	PASS
			1000~26500	3.81	-47.78	≤-16.19	PASS
		2441	Reference	4.79	4.79	---	PASS
			30~1000	4.79	-60.2	≤-15.21	PASS
			1000~26500	4.79	-47.61	≤-15.21	PASS
		2480	Reference	5.45	5.45	---	PASS
			30~1000	5.45	-60.37	≤-14.55	PASS
			1000~26500	5.45	-47.19	≤-14.55	PASS
3DH1	Ant1	2402	Reference	3.38	3.38	---	PASS
			30~1000	3.38	-60.87	≤-16.62	PASS
			1000~26500	3.38	-47.61	≤-16.62	PASS
		2441	Reference	4.54	4.54	---	PASS
			30~1000	4.54	-60.33	≤-15.46	PASS
			1000~26500	4.54	-47.63	≤-15.46	PASS
		2480	Reference	5.66	5.66	---	PASS
			30~1000	5.66	-60.53	≤-14.34	PASS
			1000~26500	5.66	-47.38	≤-14.34	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



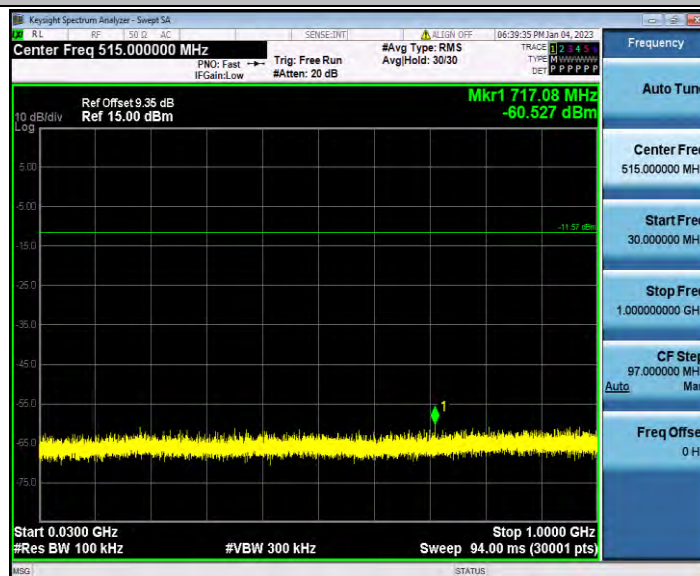
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



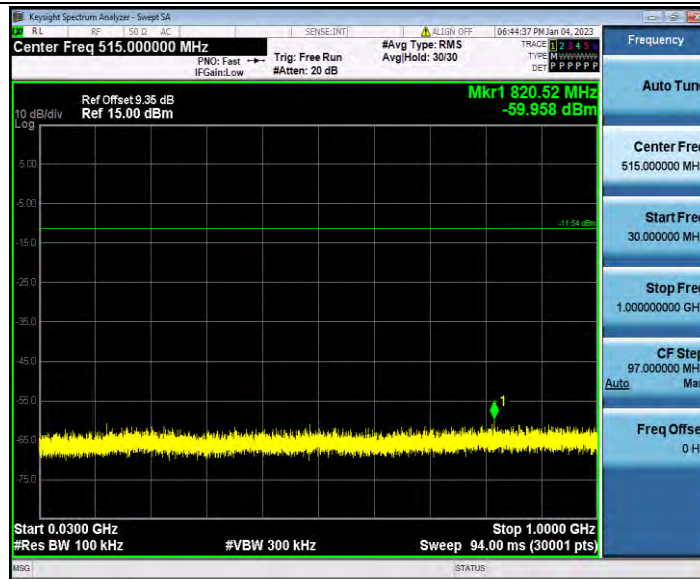
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



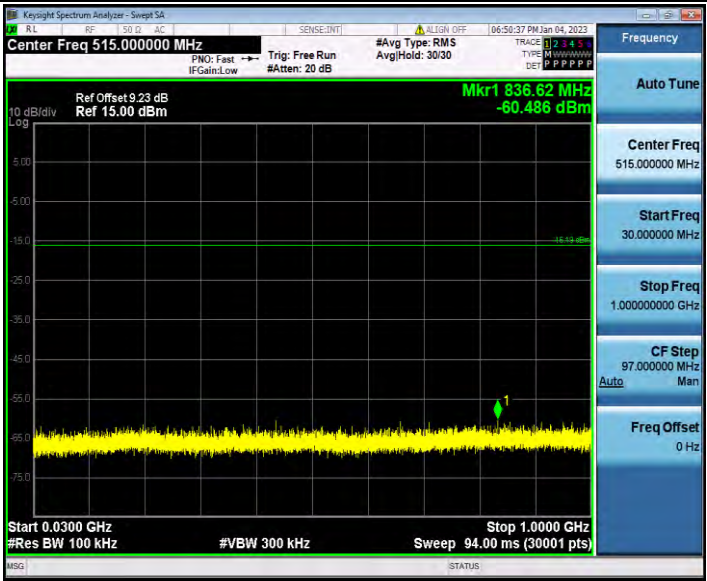
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



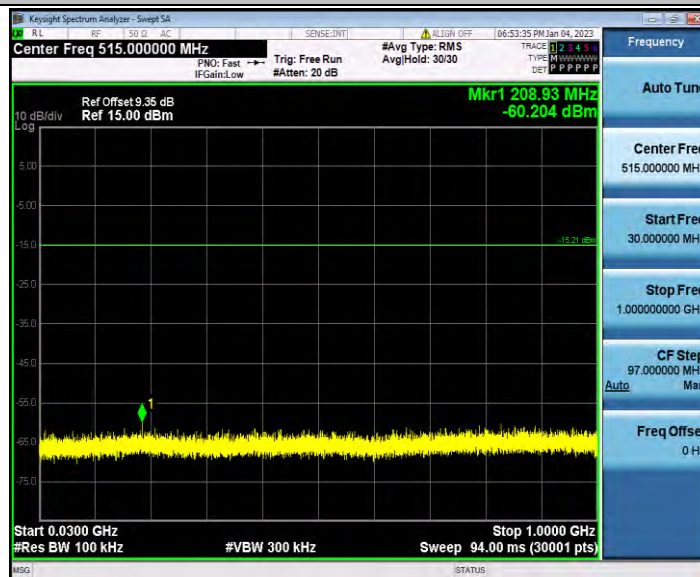
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



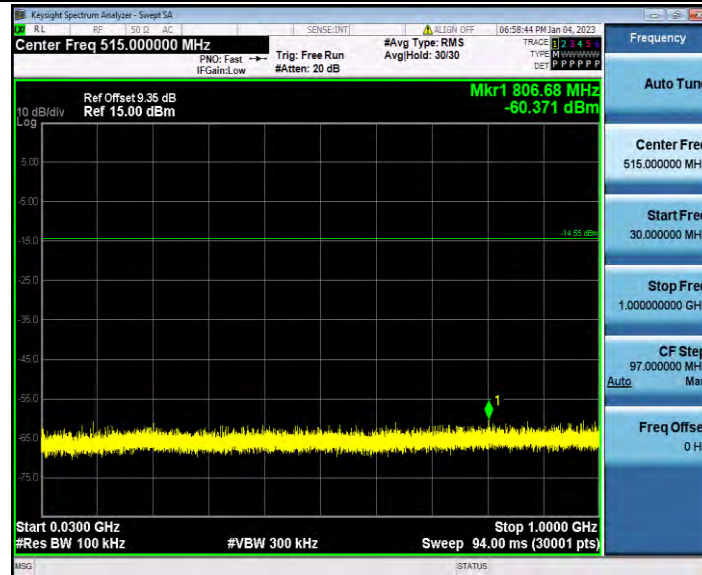
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



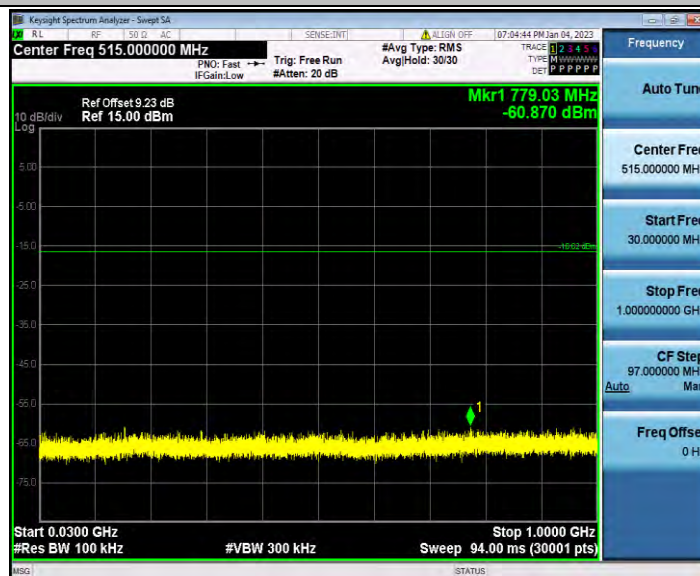
2DH1_Ant1_2480_1000~26500



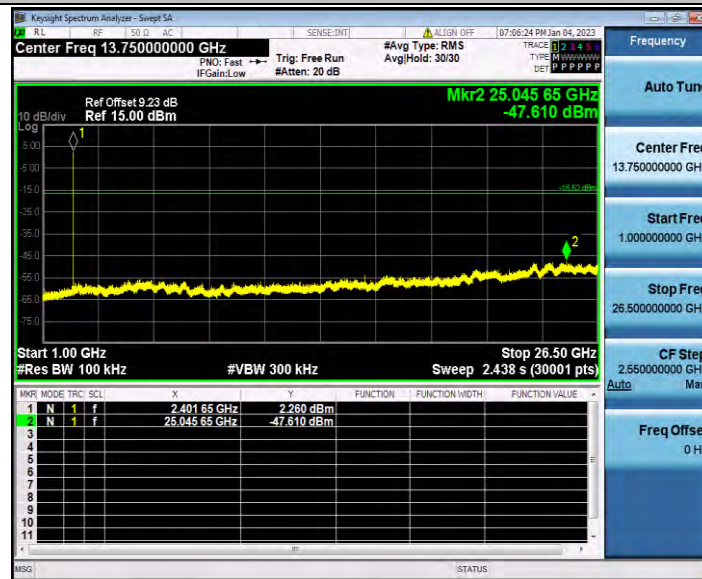
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



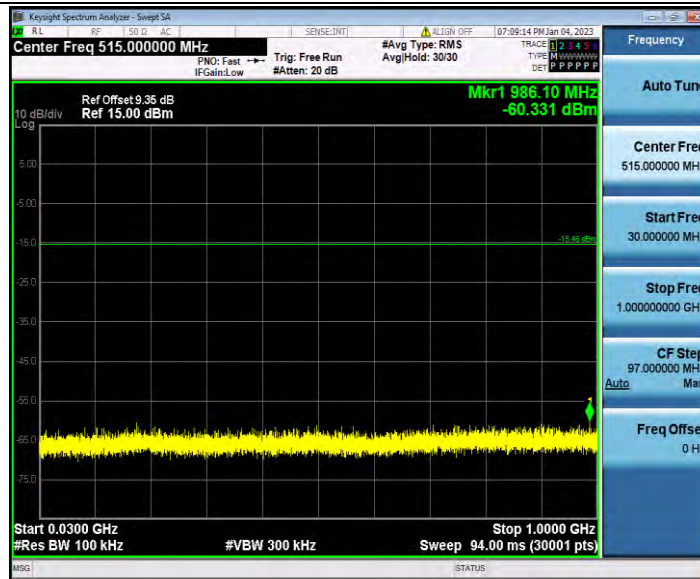
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



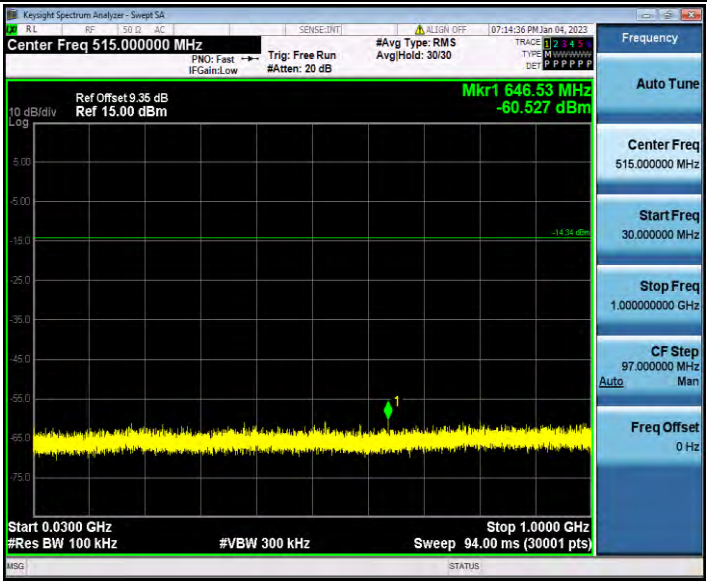
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

