

Case No. : GTS20221124022-1-1	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.12.08	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	0.876	2401.550	2402.426	---	---
		2441	0.909	2440.550	2441.459	---	---
		2480	0.909	2479.550	2480.459	---	---
2DH1	Ant1	2402	1.485	2401.223	2402.708	---	---
		2441	1.419	2440.274	2441.693	---	---
		2480	1.431	2479.268	2480.699	---	---
3DH1	Ant1	2402	1.434	2401.271	2402.705	---	---
		2441	1.431	2440.286	2441.717	---	---
		2480	1.437	2479.277	2480.714	---	---

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



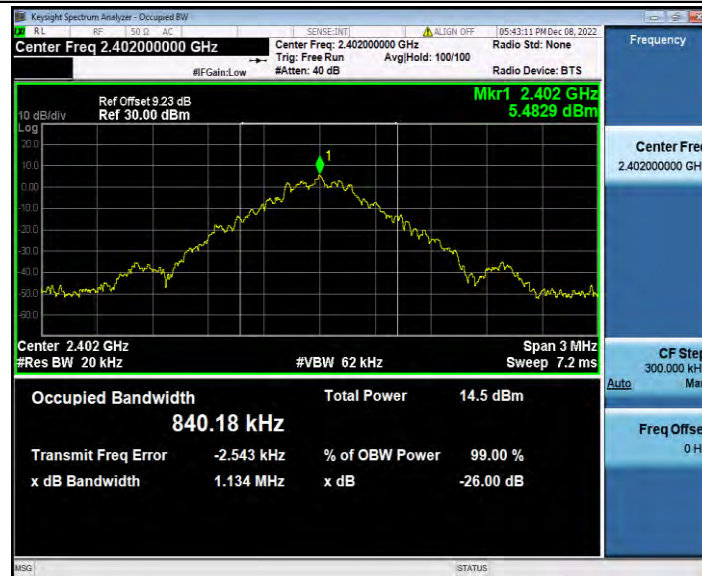
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.84018	2401.577	2402.418	---	---
		2441	0.85836	2440.579	2441.438	---	---
		2480	0.85937	2479.574	2480.433	---	---
2DH1	Ant1	2402	1.3327	2401.328	2402.660	---	---
		2441	1.3442	2440.323	2441.667	---	---
		2480	1.3443	2479.316	2480.660	---	---
3DH1	Ant1	2402	1.3354	2401.326	2402.662	---	---
		2441	1.3426	2440.331	2441.673	---	---
		2480	1.3383	2479.327	2480.666	---	---

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	8.36	≤30.00	PASS
		2441	9.03	≤30.00	PASS
		2480	9.81	≤30.00	PASS
2DH1	Ant1	2402	6.84	≤20.97	PASS
		2441	7.54	≤20.97	PASS
		2480	8.18	≤20.97	PASS
3DH1	Ant1	2402	6.92	≤20.97	PASS
		2441	7.61	≤20.97	PASS
		2480	8.33	≤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	≥ 0.909	PASS
		Hop_2441	0.992	≥ 0.909	PASS
		Hop_2480	1.156	≥ 0.909	PASS
2DH1	Ant1	Hop_2402	0.996	≥ 0.990	PASS
		Hop_2441	1.138	≥ 0.990	PASS
		Hop_2480	0.992	≥ 0.990	PASS
3DH1	Ant1	Hop_2402	0.998	≥ 0.958	PASS
		Hop_2441	0.998	≥ 0.958	PASS
		Hop_2480	0.996	≥ 0.958	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



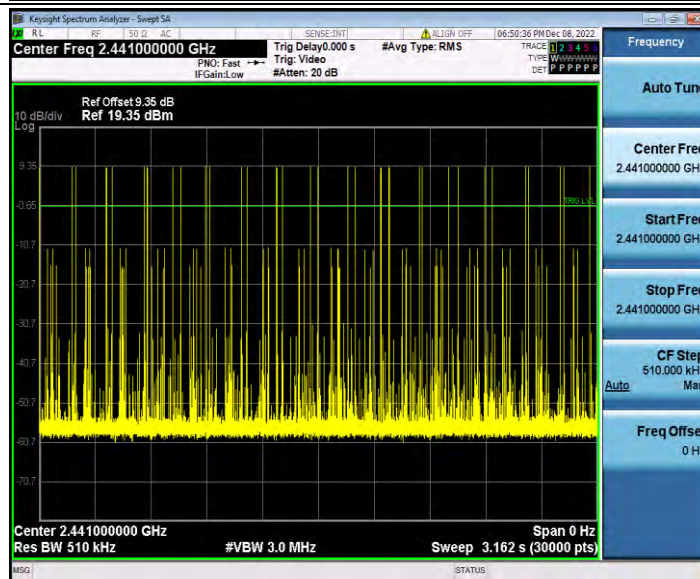
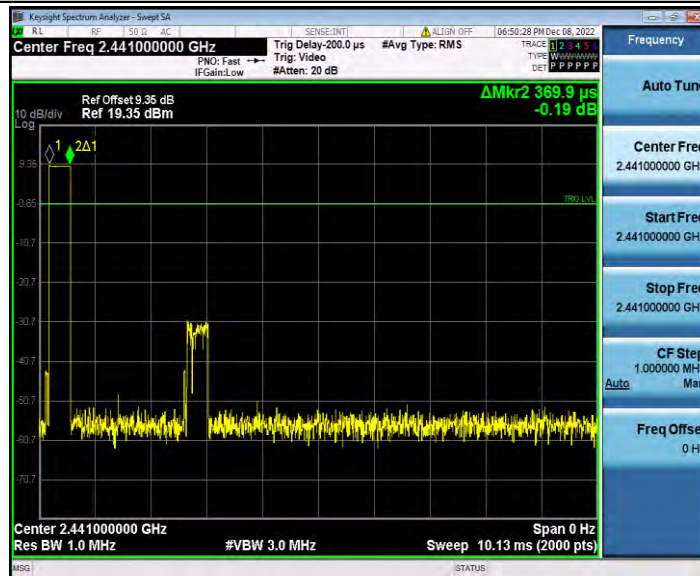
Appendix A.5: Time of occupancy

Test Result

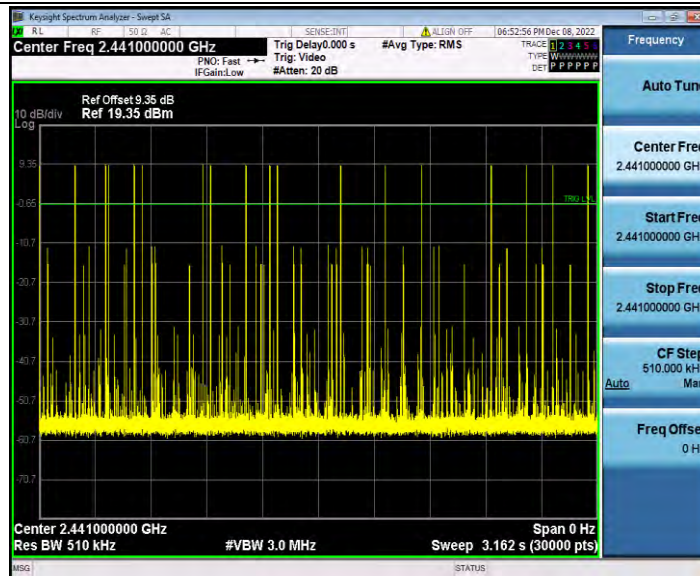
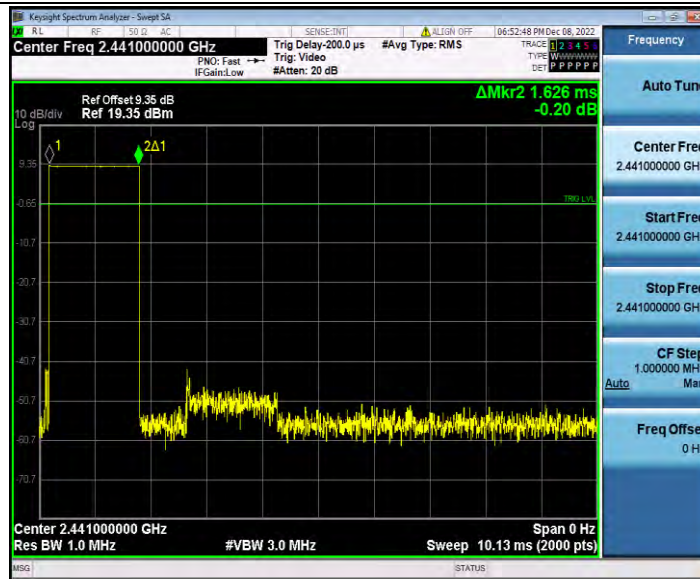
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	180	0.293	≤0.4	PASS
DH5	Ant1	Hop	2.88	50	0.144	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	180	0.294	≤0.4	PASS
2DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
3DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS

Test Graphs

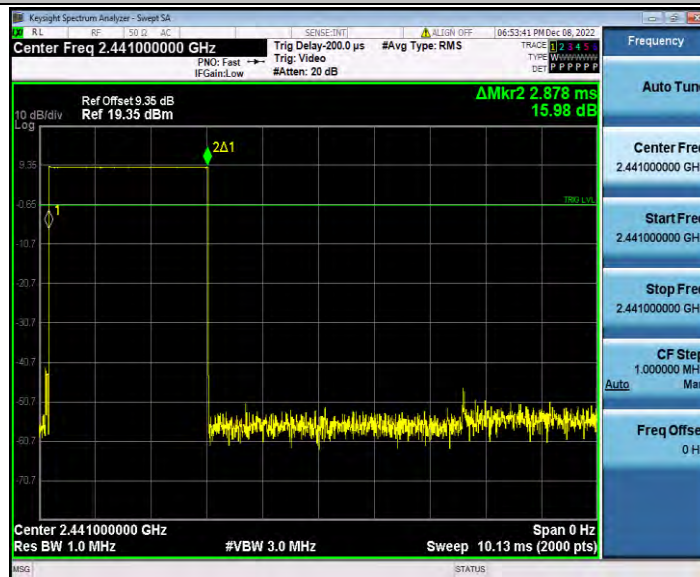
DH1_Ant1_Hop

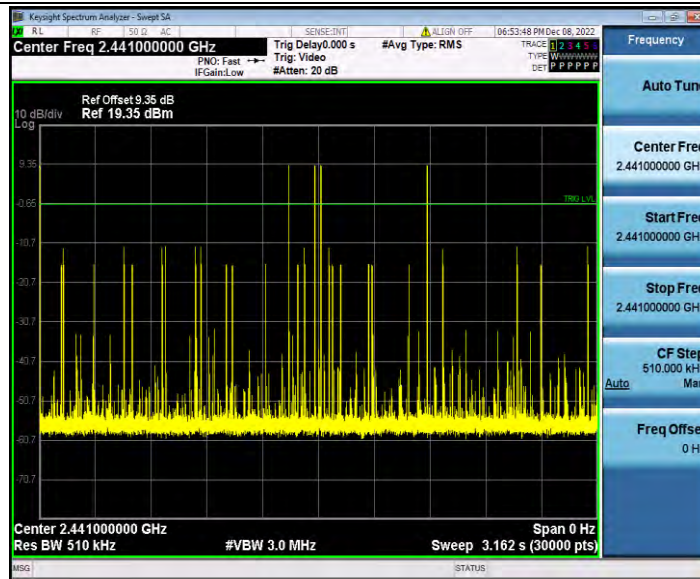


DH3_Ant1_Hop

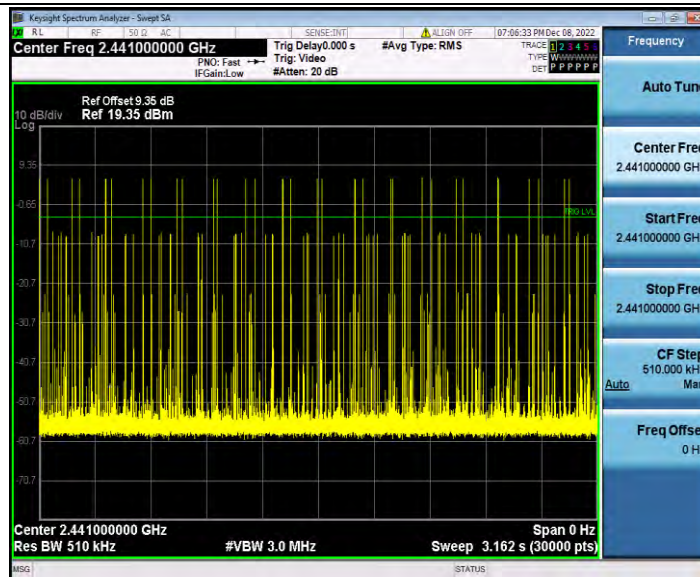
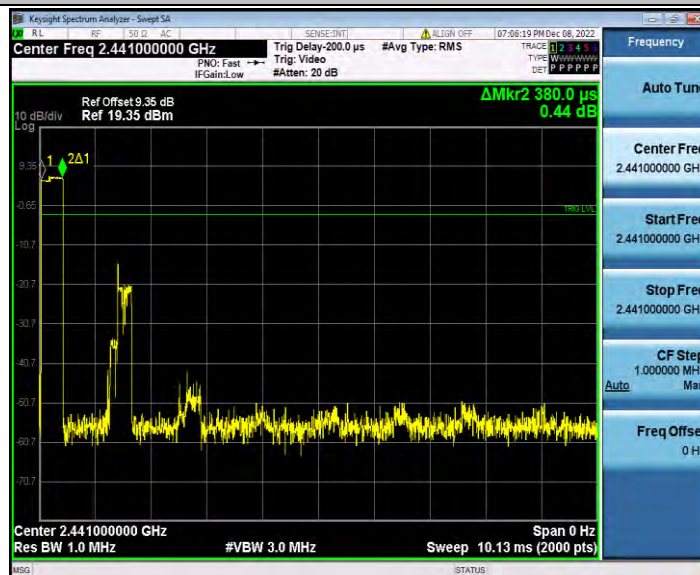


DH5_Ant1_Hop

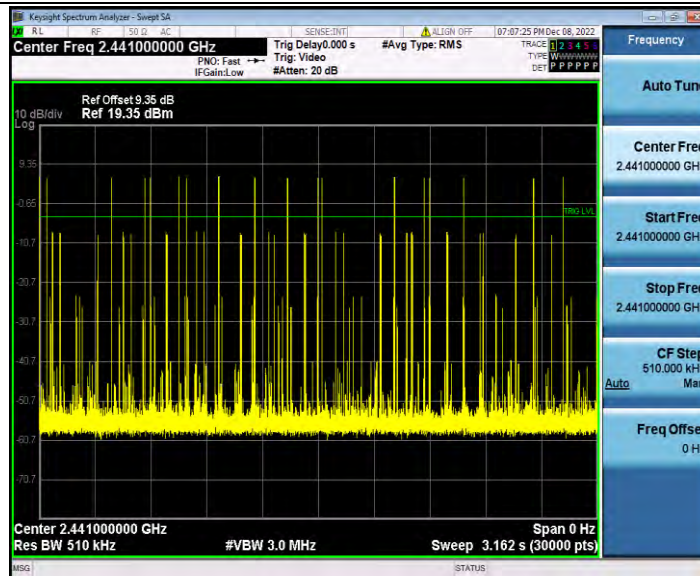
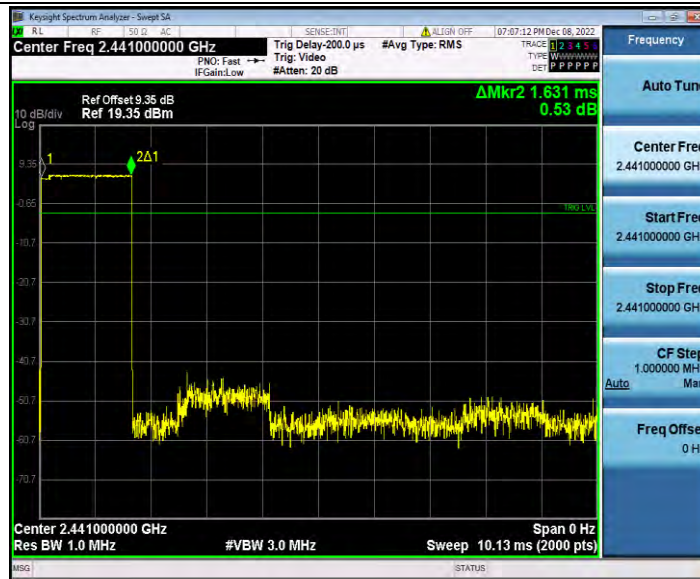




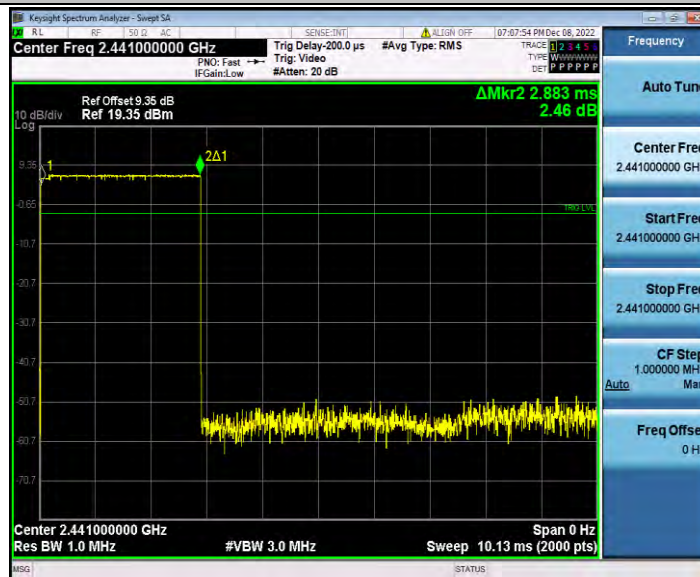
2DH1_Ant1_Hop

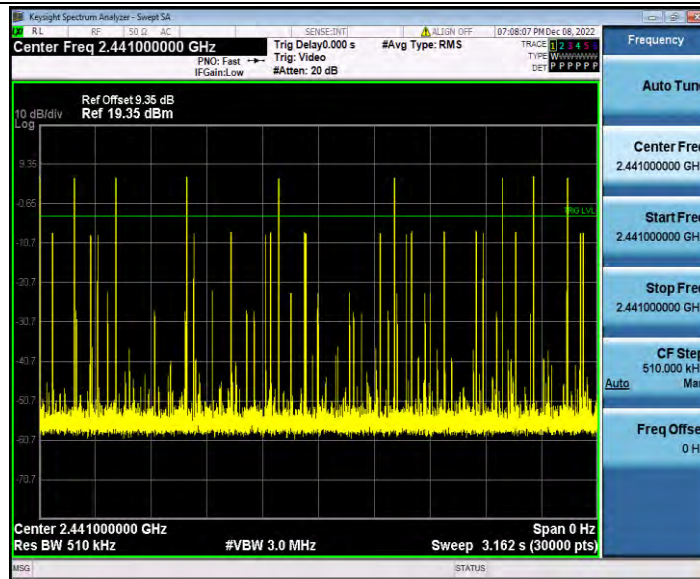


2DH3_Ant1_Hop

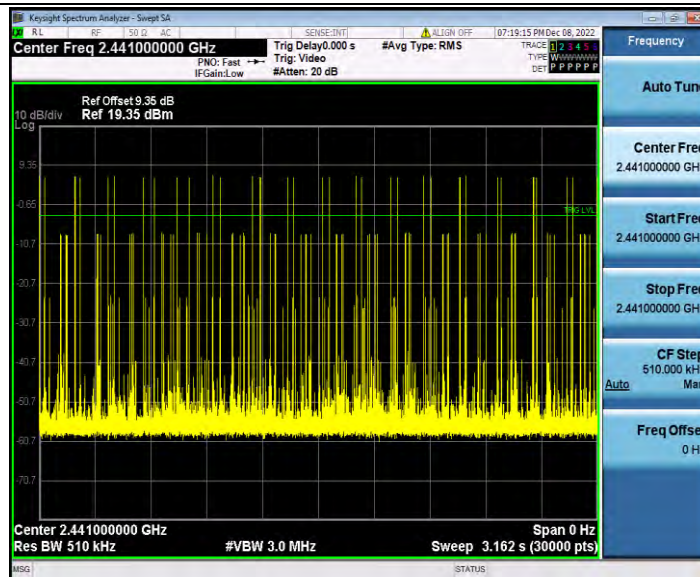
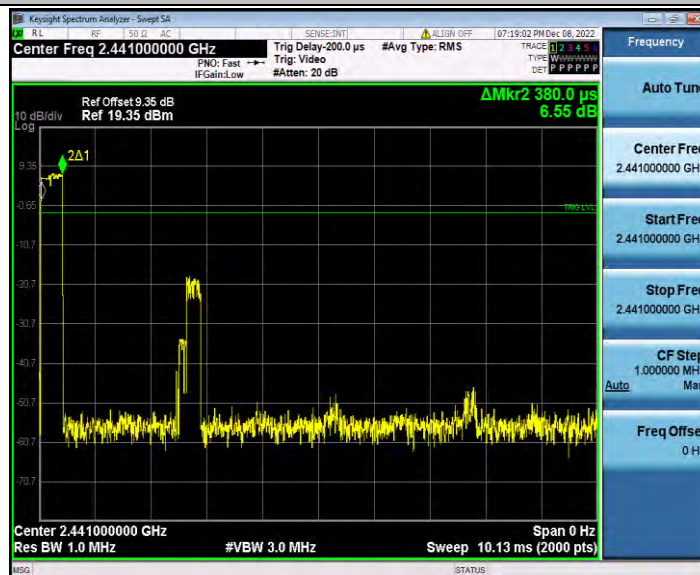


2DH5_Ant1_Hop

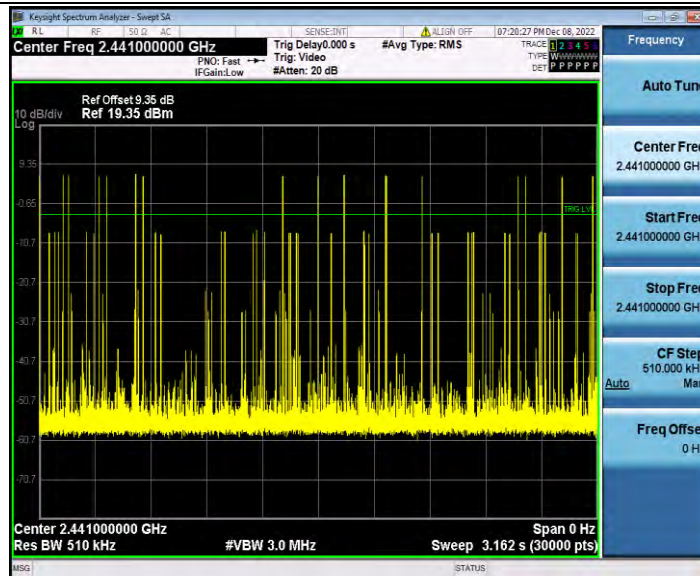
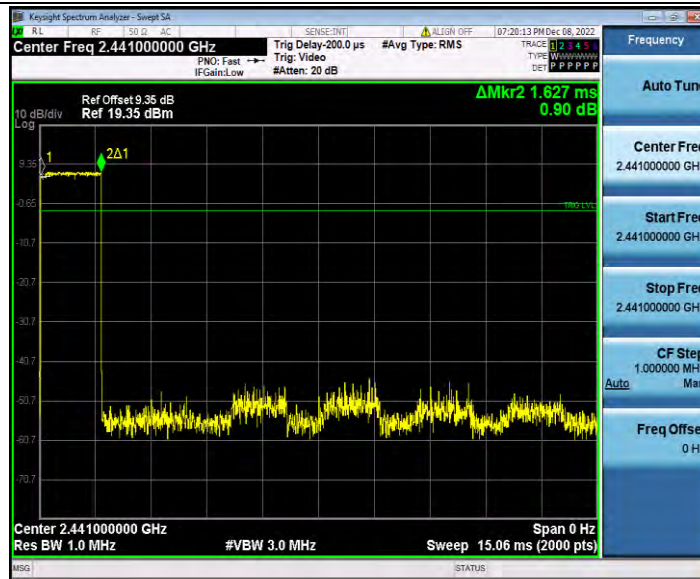




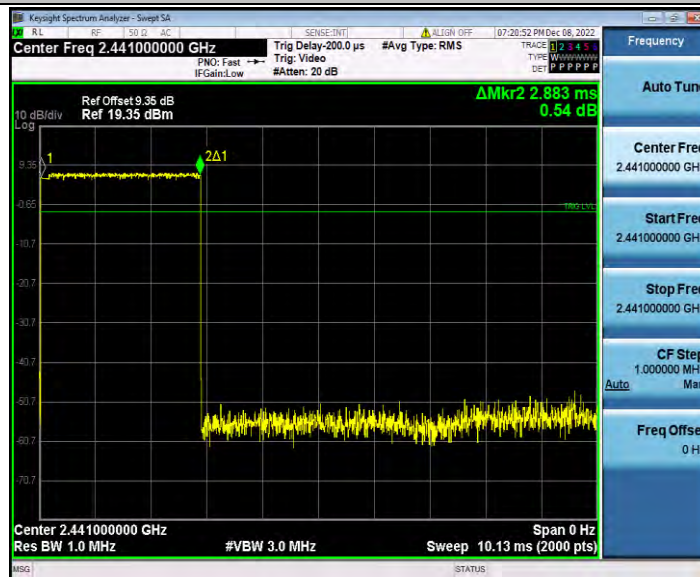
3DH1_Ant1_Hop

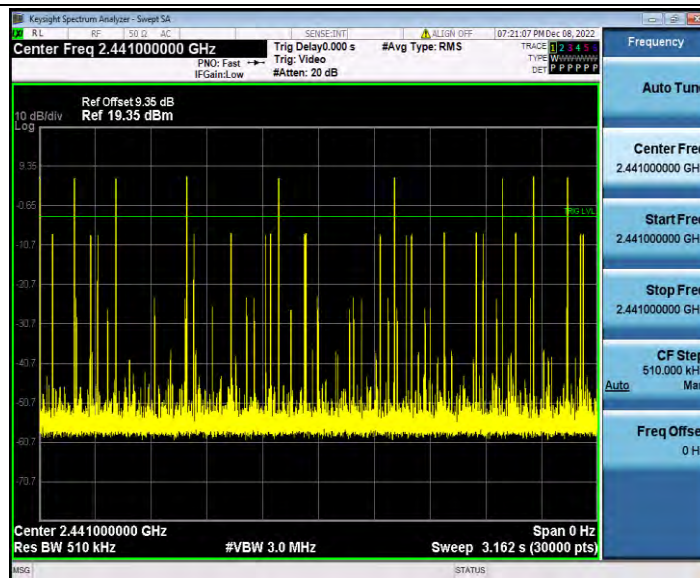


3DH3_Ant1_Hop



3DH5_Ant1_Hop





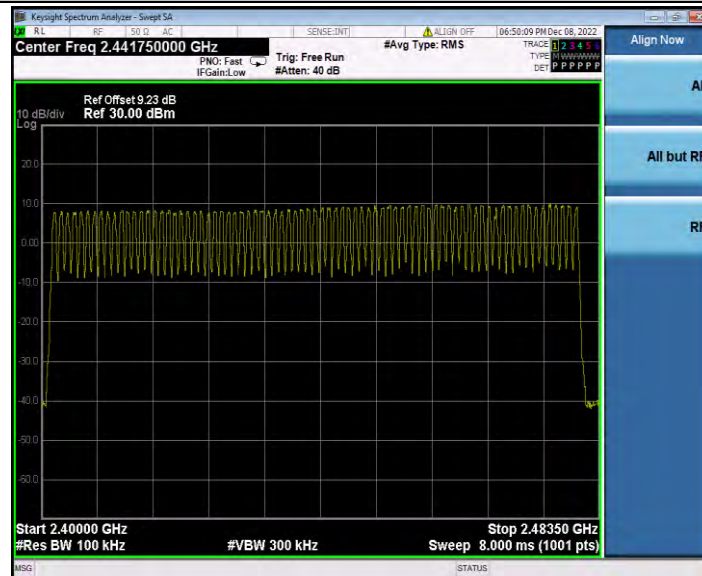
Appendix A.6: Number of hopping channels

Test Result

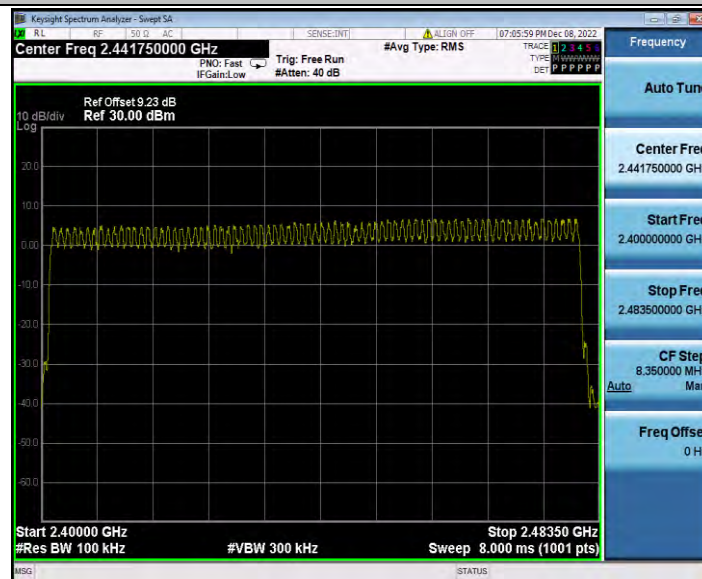
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

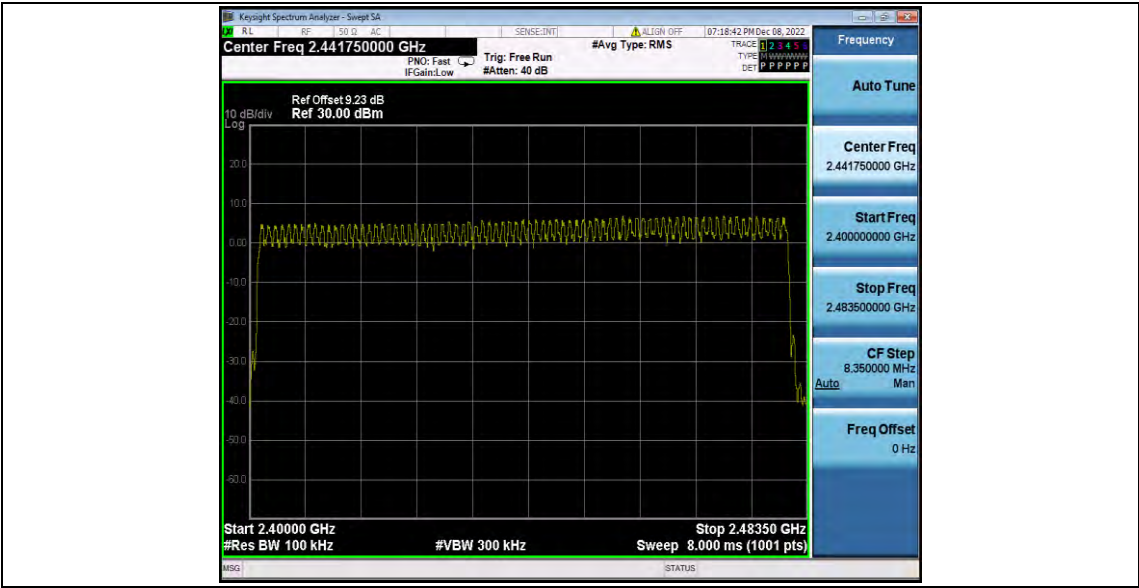
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



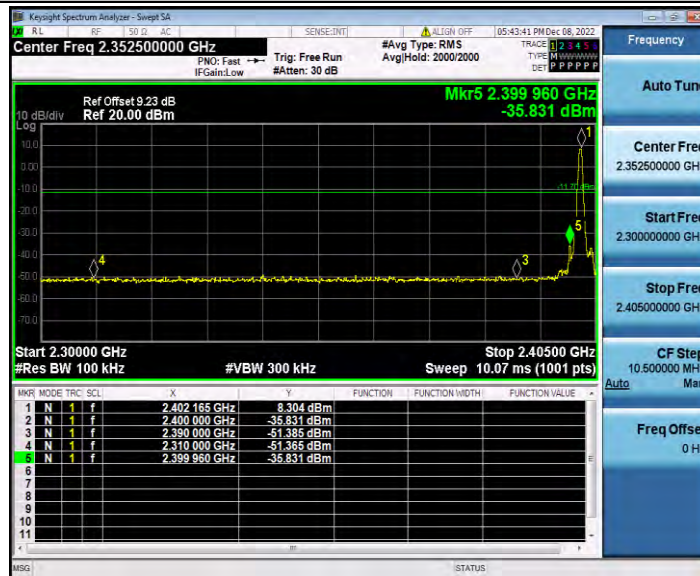
Appendix A.7: Band edge measurements

Test Result

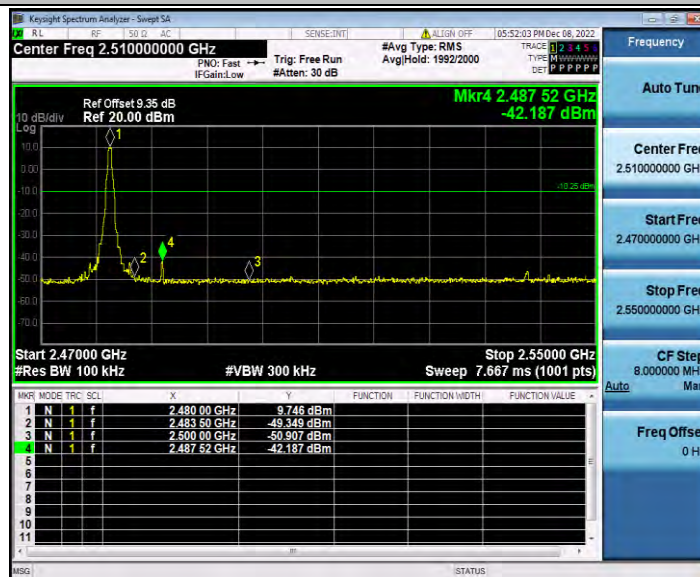
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.30	-35.83	≤-11.7	PASS
		High	2480	9.75	-42.19	≤-10.25	PASS
		Low	Hop_2402	8.24	-49.32	≤-11.76	PASS
		High	Hop_2480	9.85	-47.73	≤-10.15	PASS
2DH1	Ant1	Low	2402	4.76	-38.16	≤-15.24	PASS
		High	2480	6.24	-42.2	≤-13.76	PASS
		Low	Hop_2402	4.69	-47.72	≤-15.31	PASS
		High	Hop_2480	6.90	-48.63	≤-13.1	PASS
3DH1	Ant1	Low	2402	4.84	-37.69	≤-15.16	PASS
		High	2480	6.22	-42.41	≤-13.78	PASS
		Low	Hop_2402	4.90	-47.57	≤-15.1	PASS
		High	Hop_2480	6.91	-48.81	≤-13.09	PASS

Test Graphs

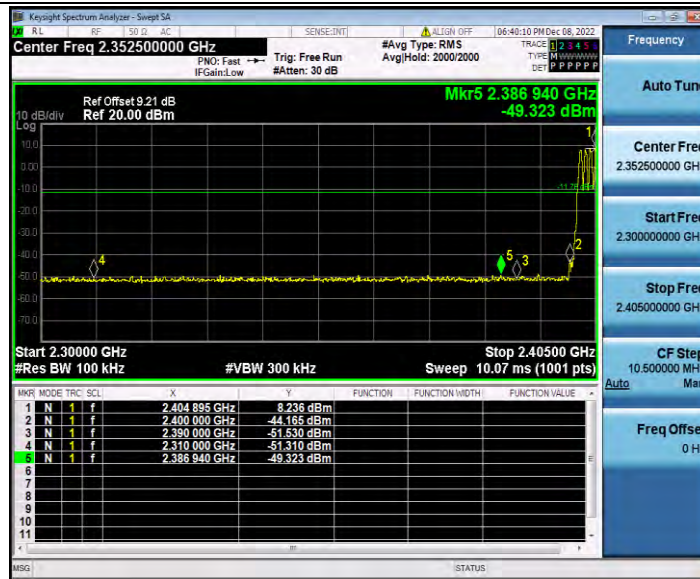
DH1_Ant1_Low_2402



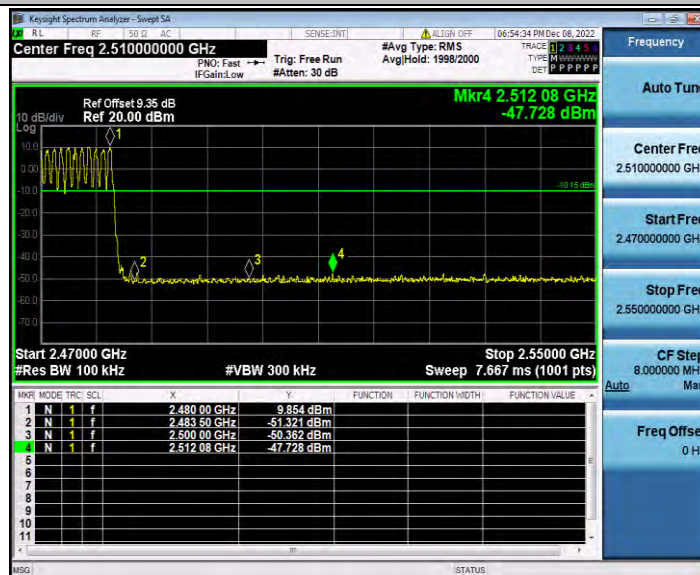
DH1_Ant1_High_2480



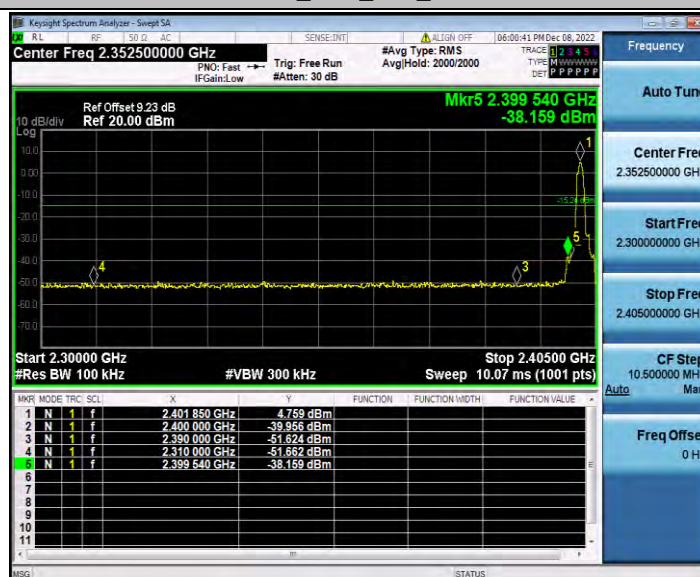
DH1_Ant1_Low_Hop_2402



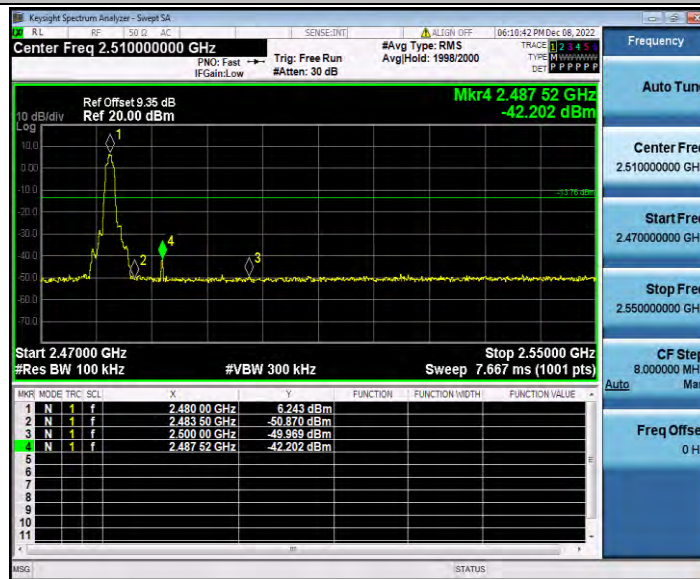
DH1_Ant1_High_Hop_2480



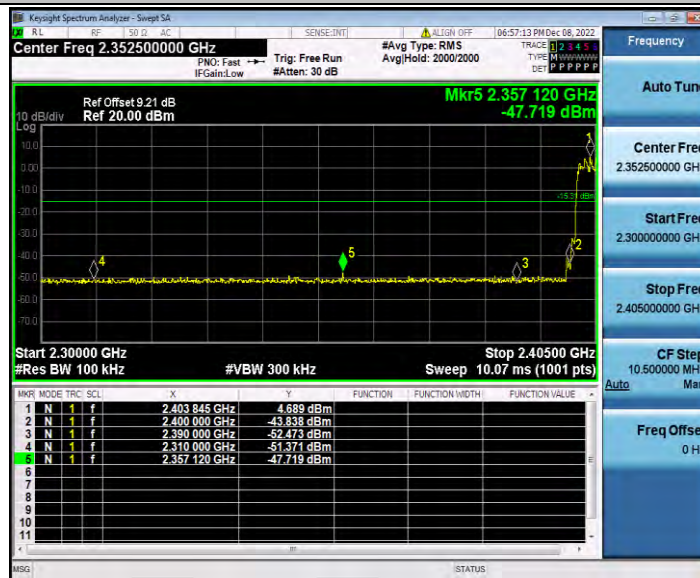
2DH1_Ant1_Low_2402



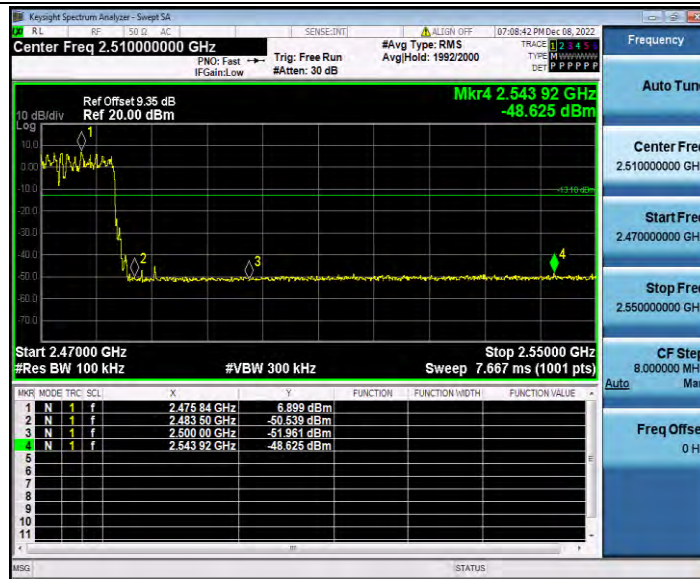
2DH1_Ant1_High_2480



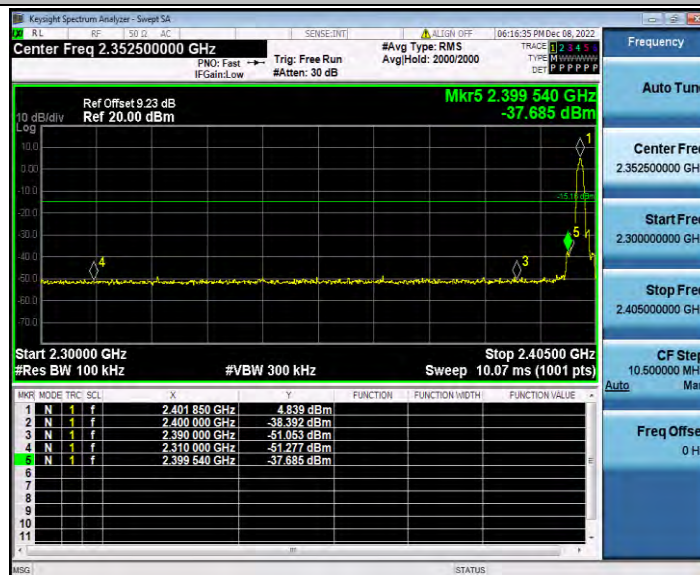
2DH1_Ant1_Low_Hop_2402



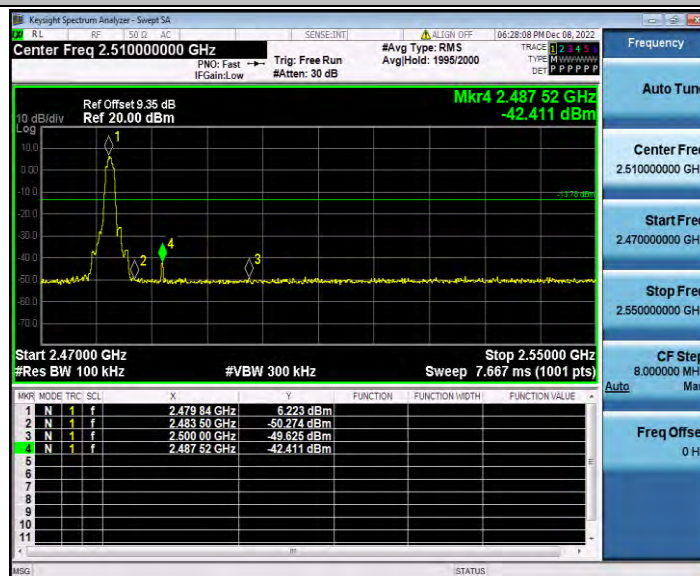
2DH1_Ant1_High_Hop_2480



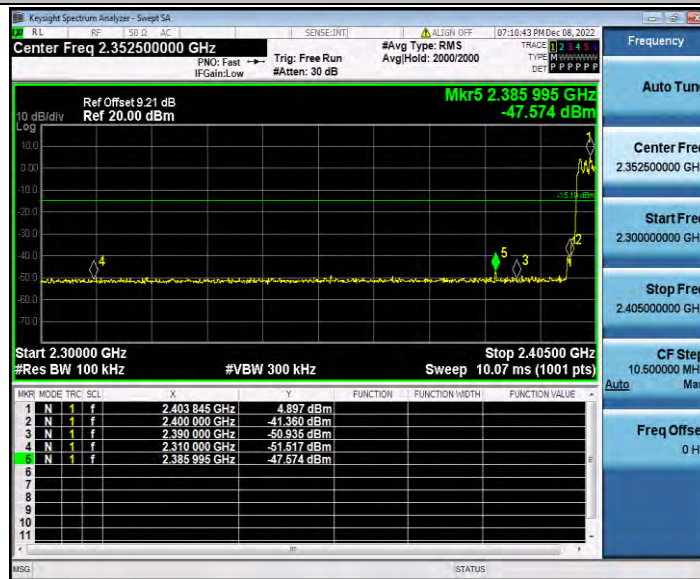
3DH1_Ant1_Low_2402



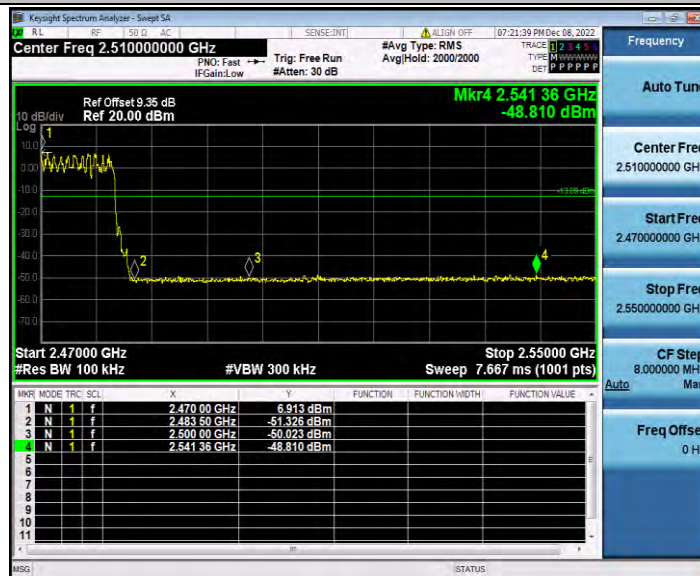
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

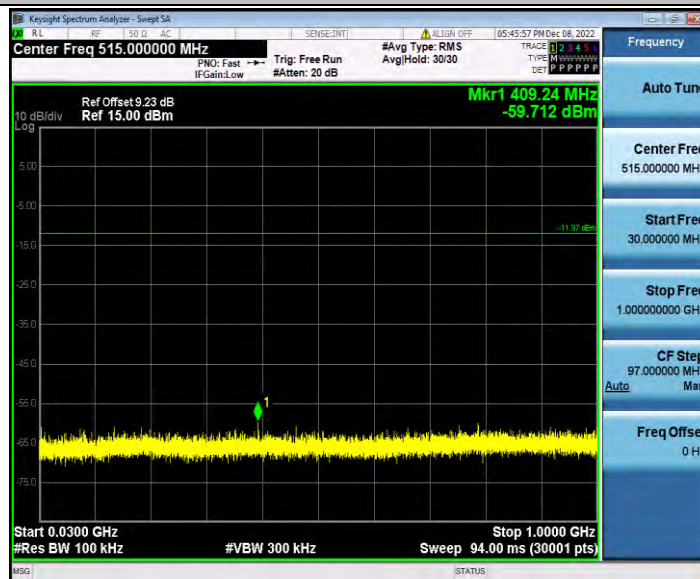
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	8.03	8.03	---	PASS
			30~1000	8.03	-59.71	≤-11.97	PASS
			1000~26500	8.03	-47.46	≤-11.97	PASS
		2441	Reference	8.59	8.59	---	PASS
			30~1000	8.59	-59.8	≤-11.41	PASS
			1000~26500	8.59	-47.23	≤-11.41	PASS
		2480	Reference	9.67	9.67	---	PASS
			30~1000	9.67	-60.38	≤-10.33	PASS
			1000~26500	9.67	-47.47	≤-10.33	PASS
2DH1	Ant1	2402	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-60.27	≤-15.31	PASS
			1000~26500	4.69	-47.82	≤-15.31	PASS
		2441	Reference	5.30	5.30	---	PASS
			30~1000	5.30	-60.13	≤-14.7	PASS
			1000~26500	5.30	-47.22	≤-14.7	PASS
		2480	Reference	5.98	5.98	---	PASS
			30~1000	5.98	-59.77	≤-14.02	PASS
			1000~26500	5.98	-47.01	≤-14.02	PASS
3DH1	Ant1	2402	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-60.6	≤-15.43	PASS
			1000~26500	4.57	-47.64	≤-15.43	PASS
		2441	Reference	5.24	5.24	---	PASS
			30~1000	5.24	-60.15	≤-14.76	PASS
			1000~26500	5.24	-47.44	≤-14.76	PASS
		2480	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-60.17	≤-13.98	PASS
			1000~26500	6.02	-47.7	≤-13.98	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



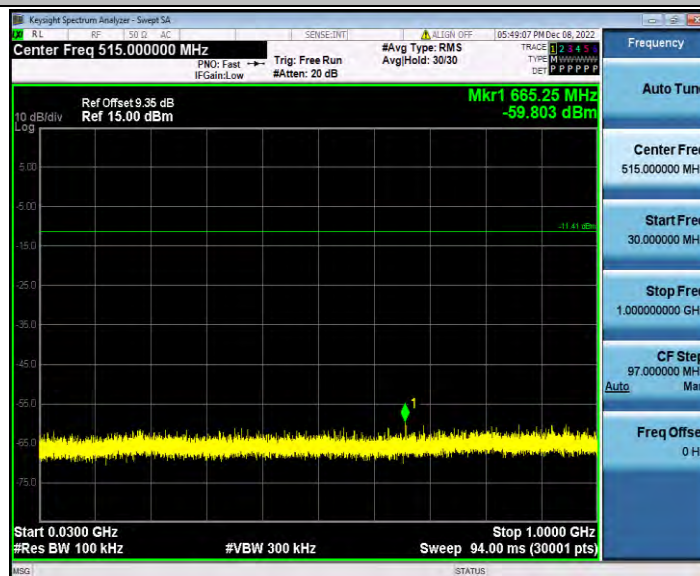
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



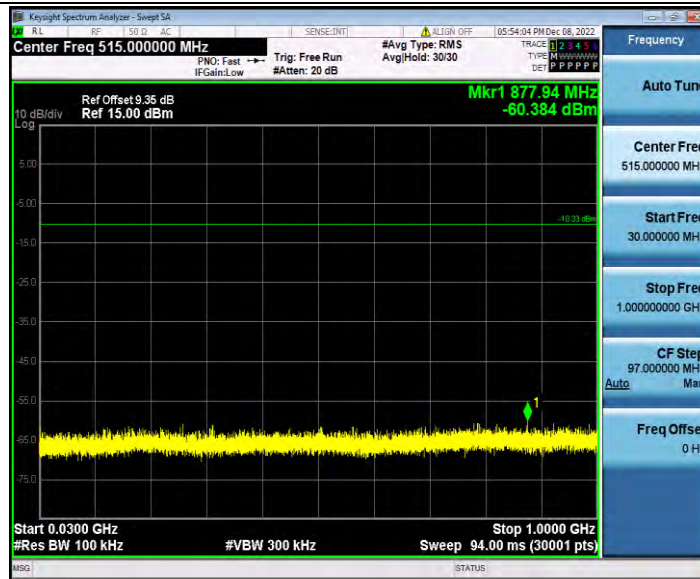
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



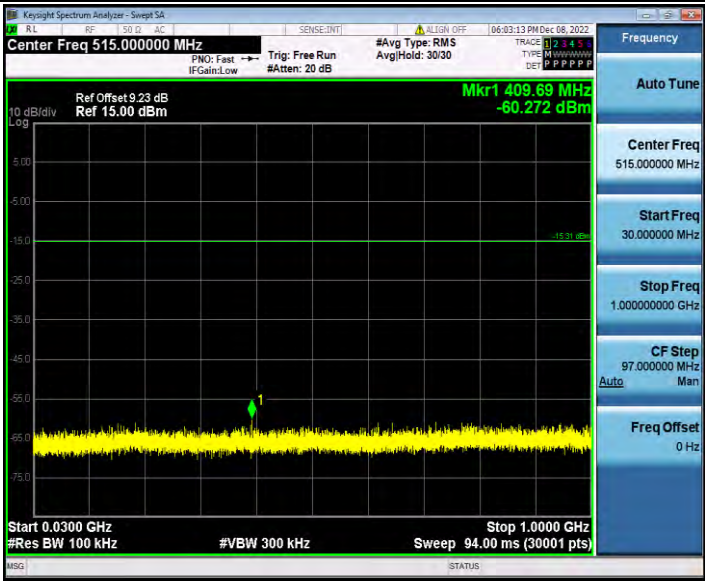
DH1_Ant1_2480_1000~26500



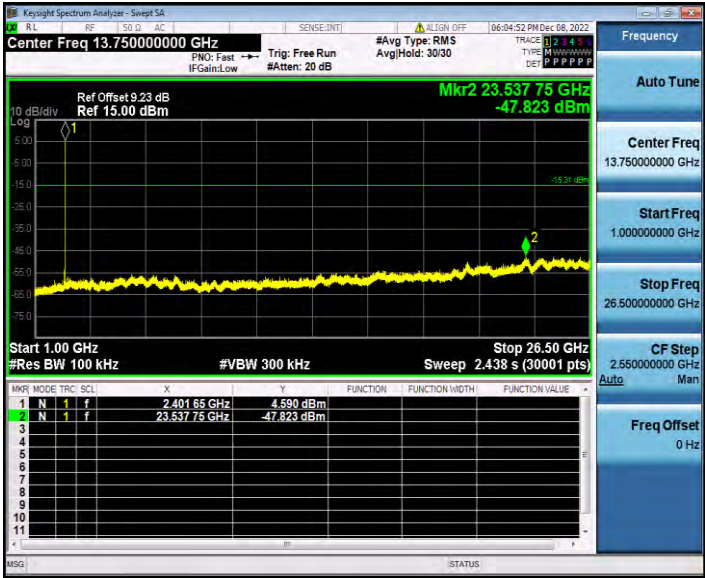
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



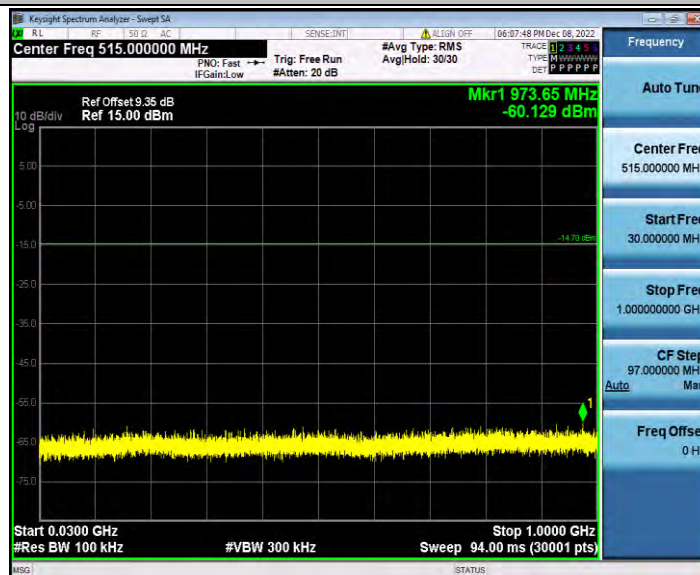
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



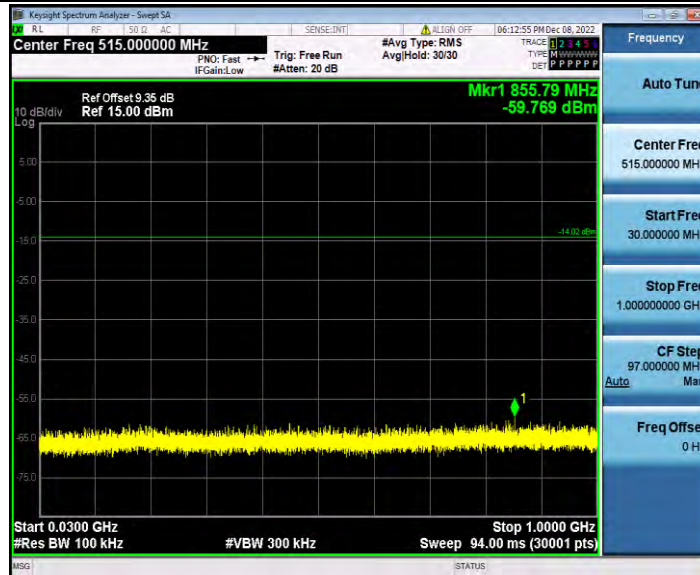
2DH1_Ant1_2441_1000~26500



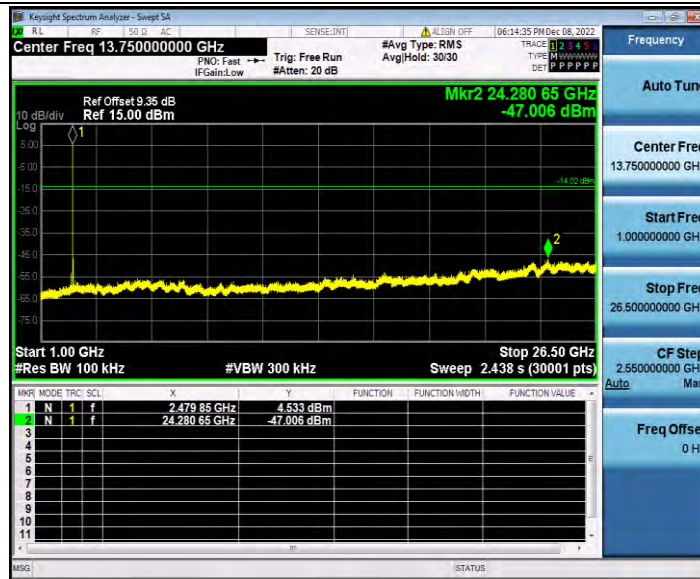
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



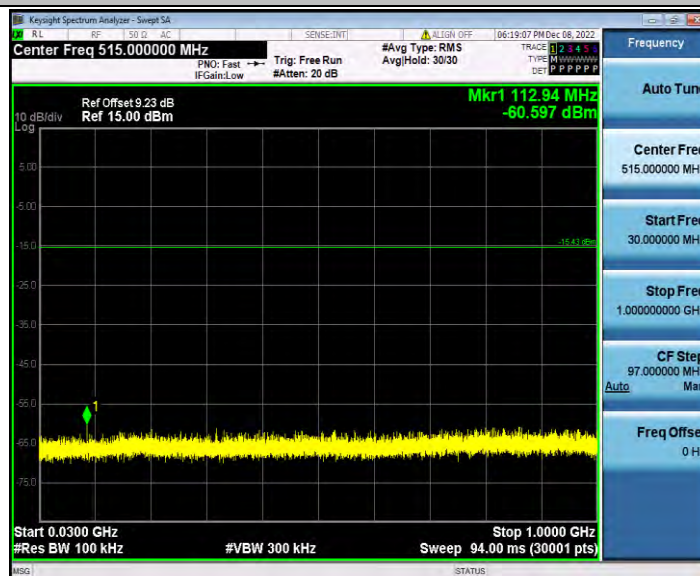
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



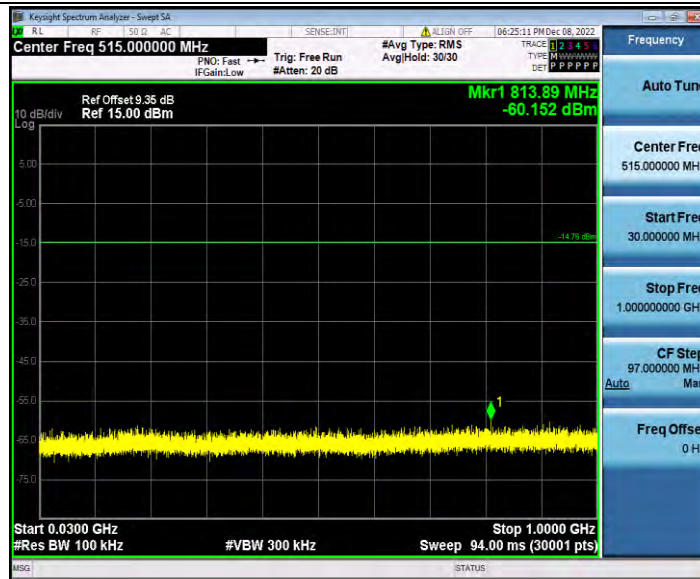
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



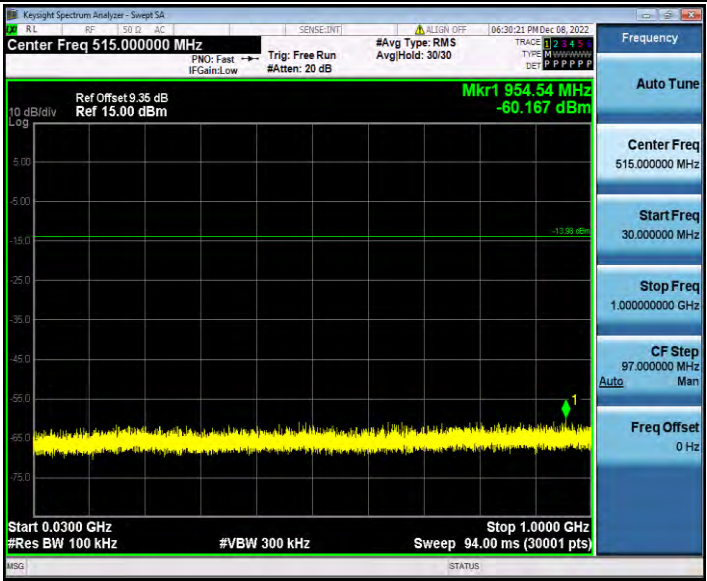
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

