

Case No. : GTS20220920004-2-10	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.12.19	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	0.786	2401.610	2402.396	---	---
		2441	0.852	2440.565	2441.417	---	---
		2480	0.744	2479.604	2480.348	---	---
2DH1	Ant1	2402	1.227	2401.367	2402.594	---	---
		2441	1.221	2440.364	2441.585	---	---
		2480	1.248	2479.364	2480.612	---	---
3DH1	Ant1	2402	1.245	2401.370	2402.615	---	---
		2441	1.257	2440.367	2441.624	---	---
		2480	1.251	2479.373	2480.624	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DHI_Ant1_2402



2DHI_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.2: Occupied Channel Bandwidth

Test Result

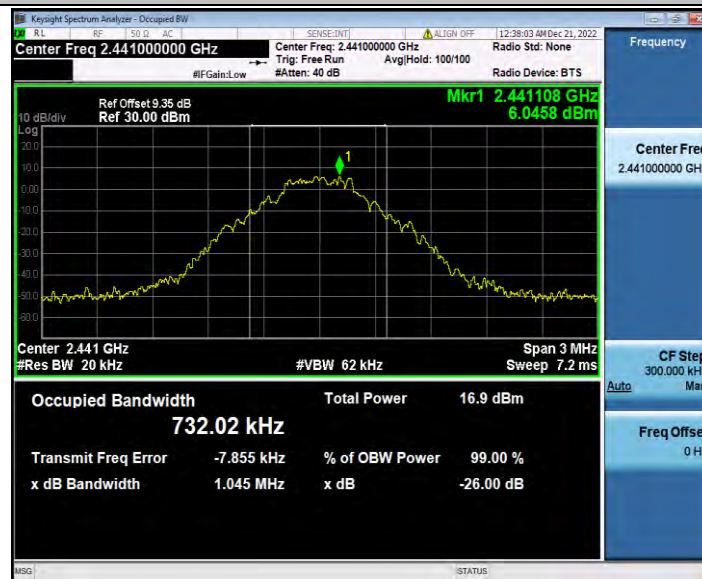
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.73251	2401.625	2402.358	---	---
		2441	0.73202	2440.626	2441.358	---	---
		2480	0.74158	2479.622	2480.364	---	---
2DH1	Ant1	2402	1.1417	2401.422	2402.563	---	---
		2441	1.1550	2440.408	2441.563	---	---
		2480	1.1633	2479.407	2480.571	---	---
3DH1	Ant1	2402	1.1384	2401.432	2402.571	---	---
		2441	1.1515	2440.428	2441.579	---	---
		2480	1.1526	2479.428	2480.580	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



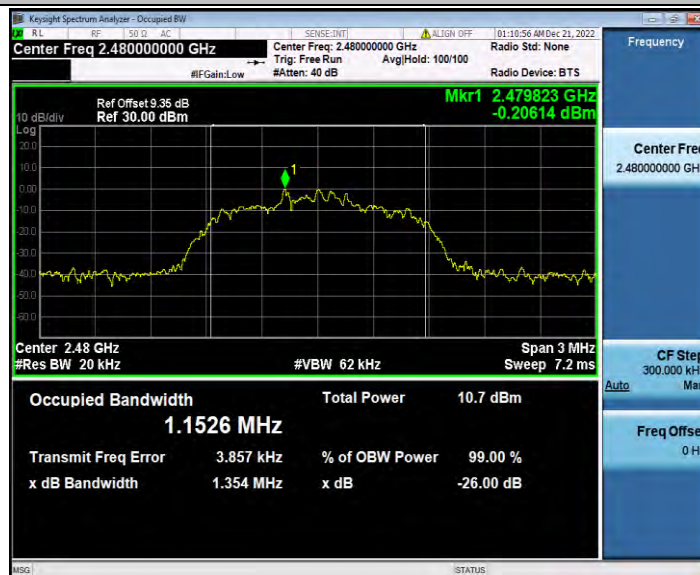
3DH1_Ant1_2402



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	8.59	≤20.97	PASS
		2441	11.28	≤20.97	PASS
		2480	5.91	≤20.97	PASS
2DH1	Ant1	2402	5.43	≤20.97	PASS
		2441	5.28	≤20.97	PASS
		2480	5.82	≤20.97	PASS
3DH1	Ant1	2402	2.41	≤20.97	PASS
		2441	5.16	≤20.97	PASS
		2480	5.99	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.836	≥ 0.568	PASS
		Hop_2441	0.848	≥ 0.568	PASS
		Hop_2480	0.996	≥ 0.568	PASS
2DH1	Ant1	Hop_2402	1.016	≥ 0.832	PASS
		Hop_2441	0.996	≥ 0.832	PASS
		Hop_2480	1.154	≥ 0.832	PASS
3DH1	Ant1	Hop_2402	1.04	≥ 0.838	PASS
		Hop_2441	1.006	≥ 0.838	PASS
		Hop_2480	0.998	≥ 0.838	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



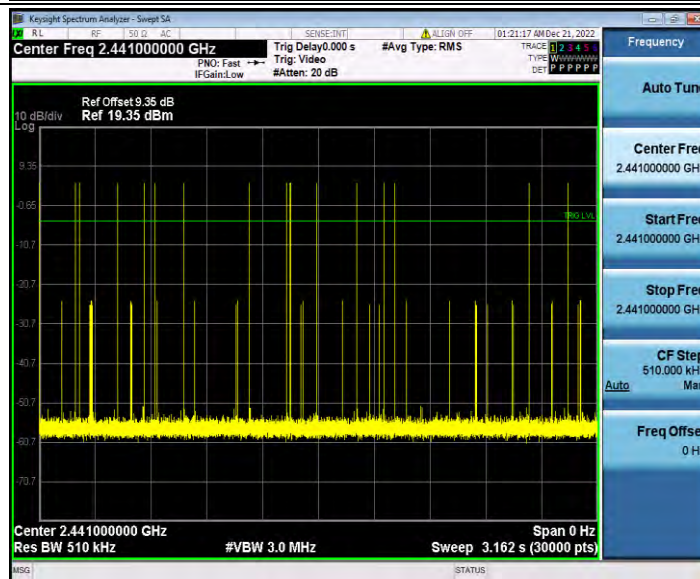
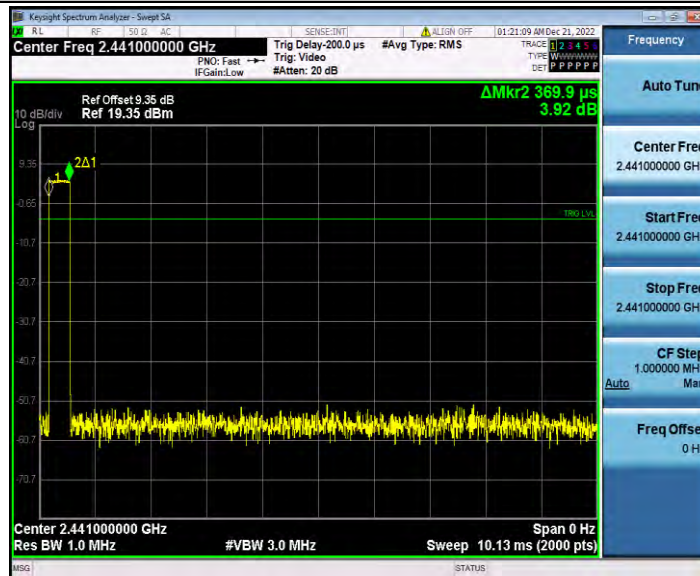
Appendix A.5: Time of occupancy

Test Result

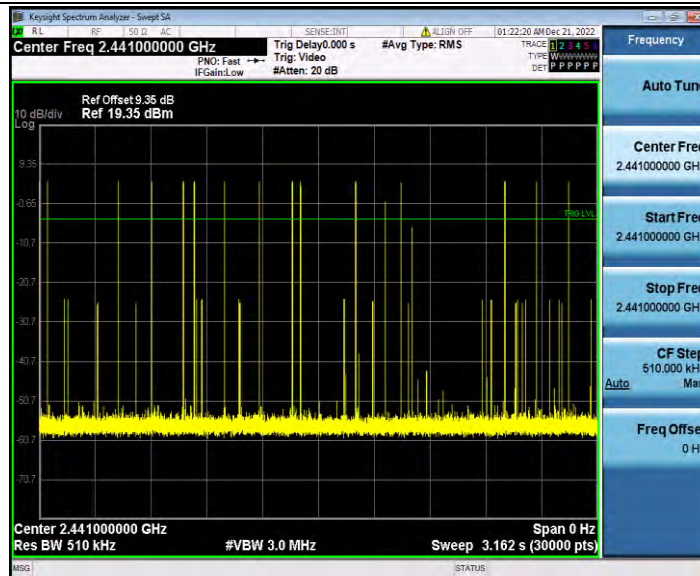
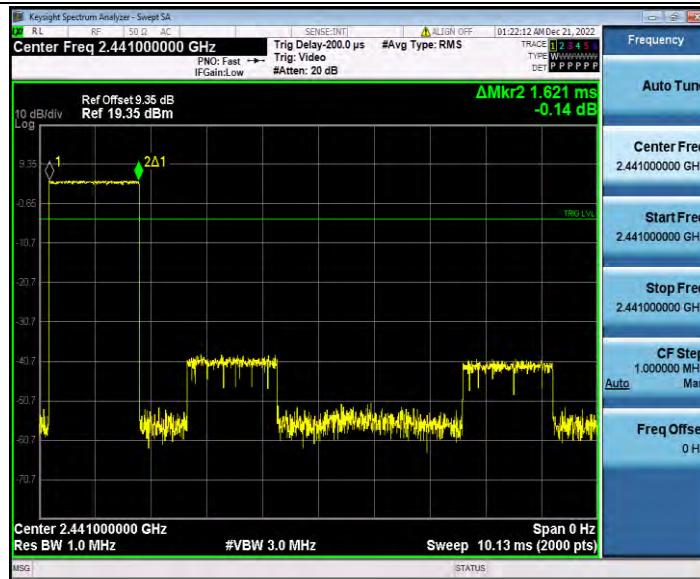
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	160	0.059	≤0.4	PASS
DH3	Ant1	Hop	1.62	150	0.243	≤0.4	PASS
DH5	Ant1	Hop	2.87	100	0.287	≤0.4	PASS
2DH1	Ant1	Hop	0.37	130	0.049	≤0.4	PASS
2DH3	Ant1	Hop	1.63	100	0.163	≤0.4	PASS
2DH5	Ant1	Hop	2.87	110	0.316	≤0.4	PASS
3DH1	Ant1	Hop	0.38	130	0.049	≤0.4	PASS
3DH3	Ant1	Hop	1.63	100	0.163	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

Test Graphs

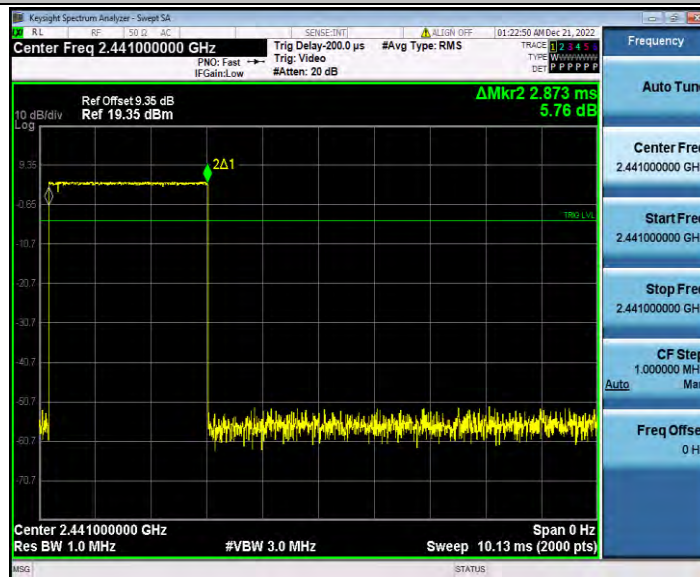
DH1_Ant1_Hop

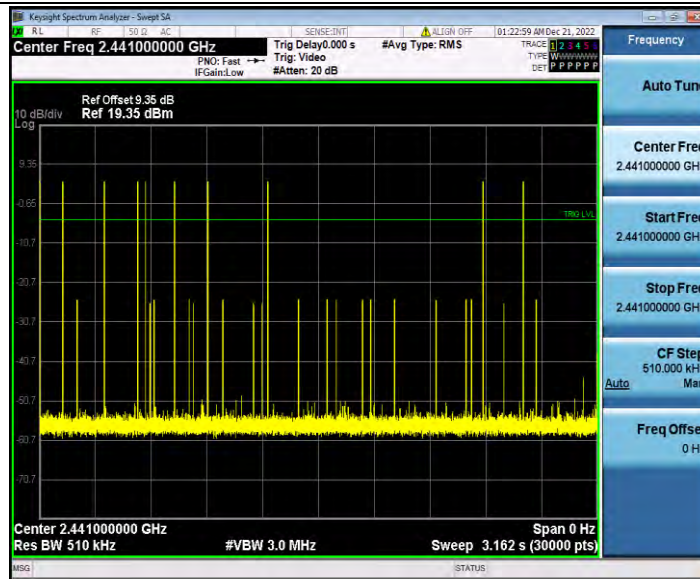


DH3_Ant1_Hop

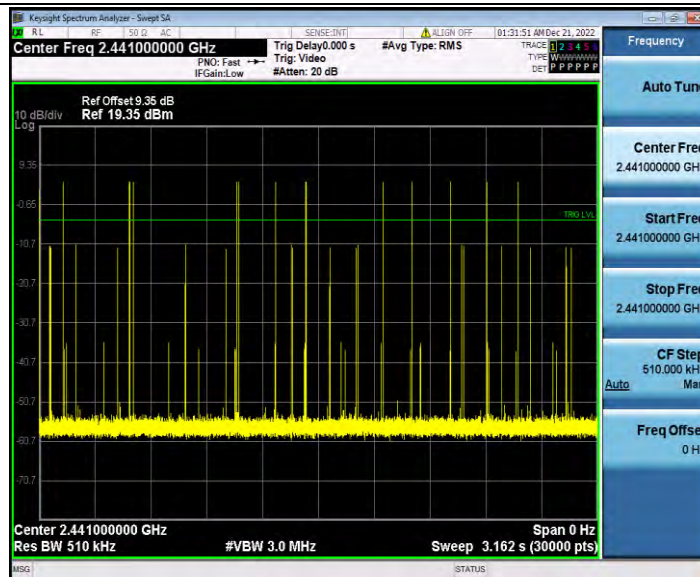
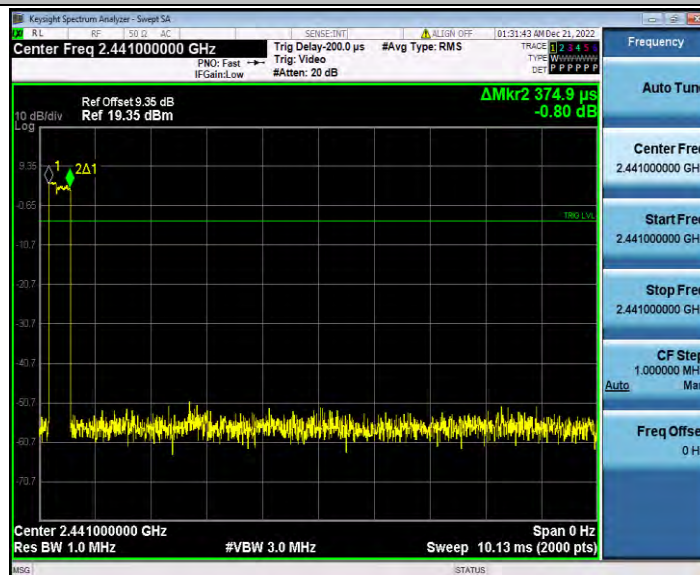


DH5_Ant1_Hop

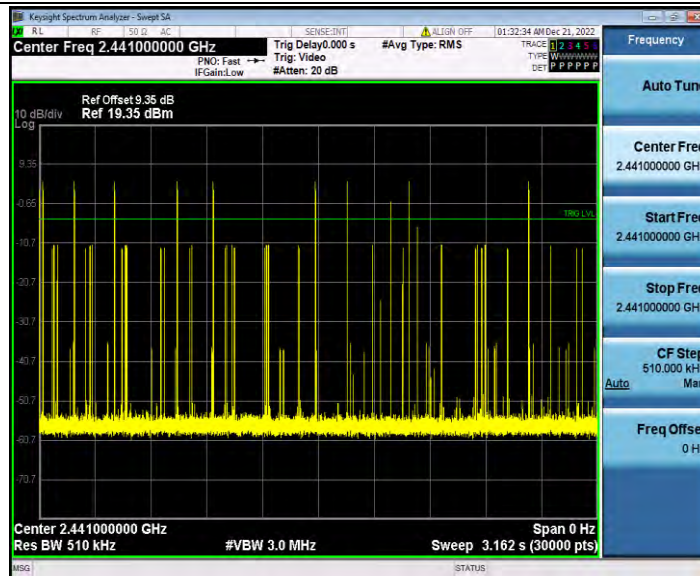




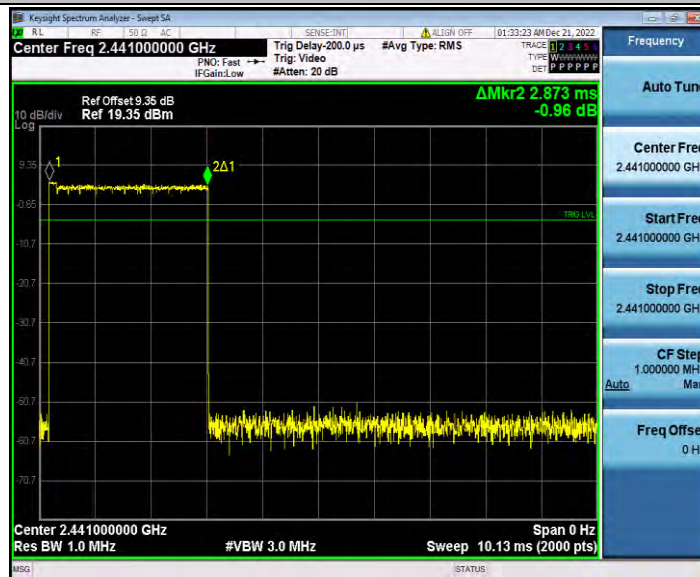
2DH1_Ant1_Hop

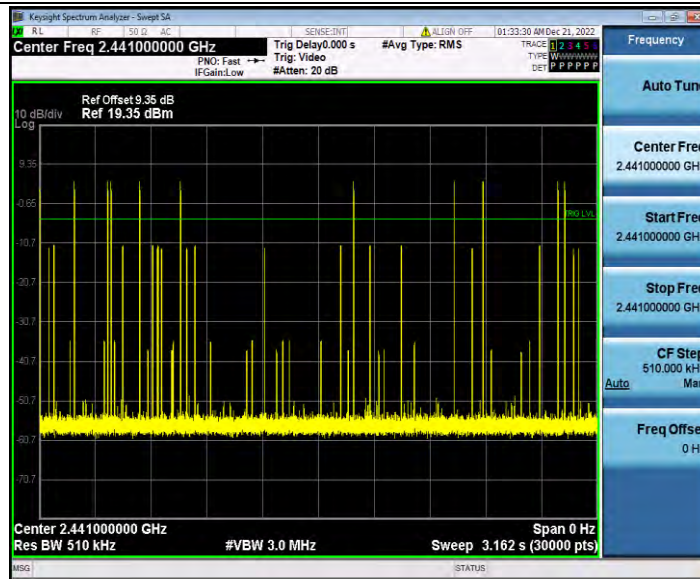


2DH3_Ant1_Hop

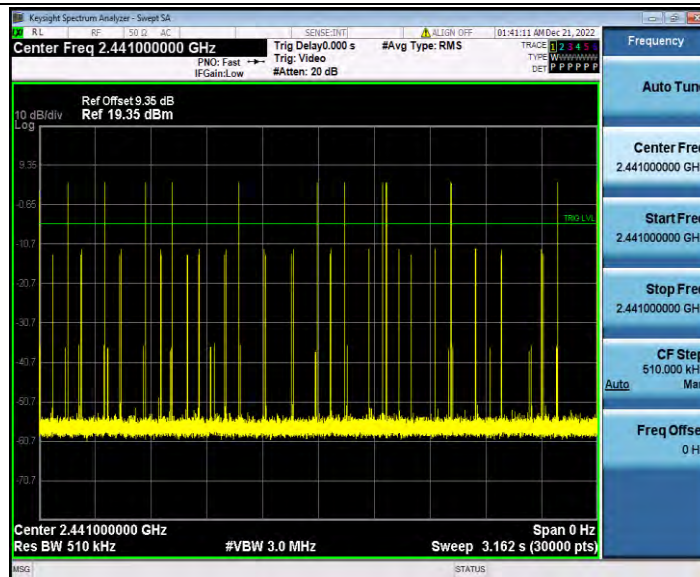
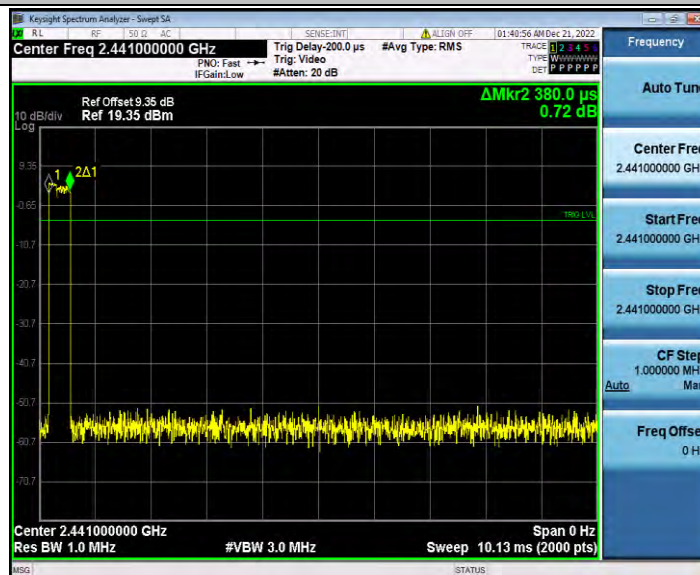


2DH5_Ant1_Hop

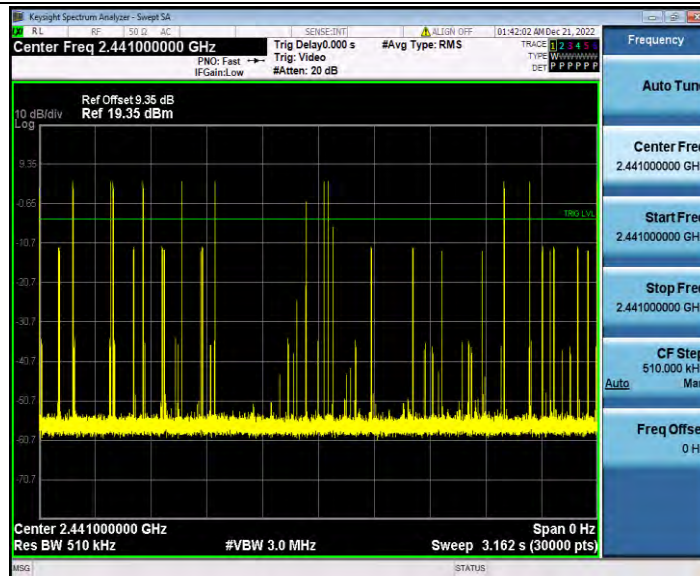




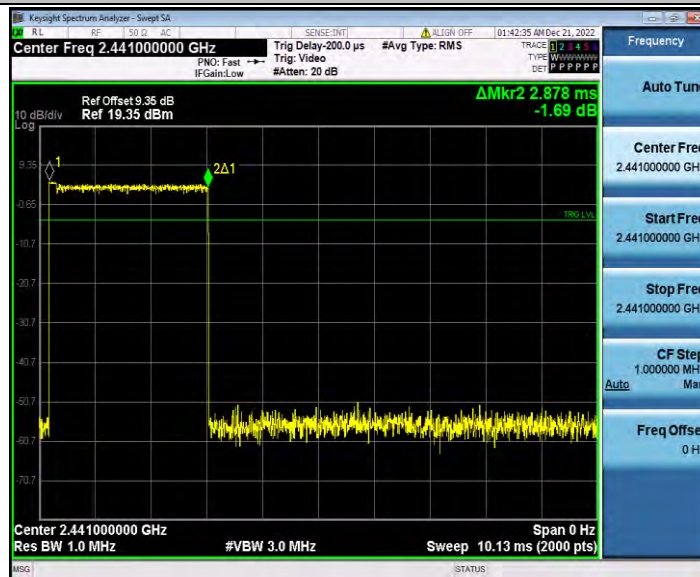
3DH1_Ant1_Hop

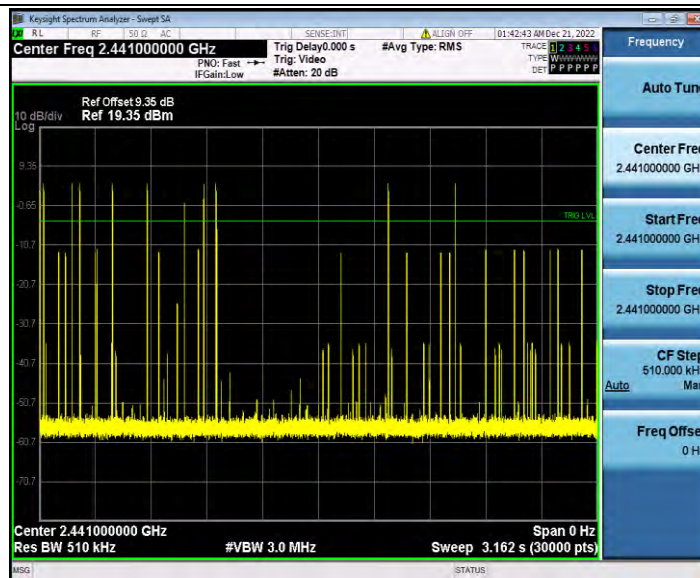


3DH3_Ant1_Hop



3DH5_Ant1_Hop



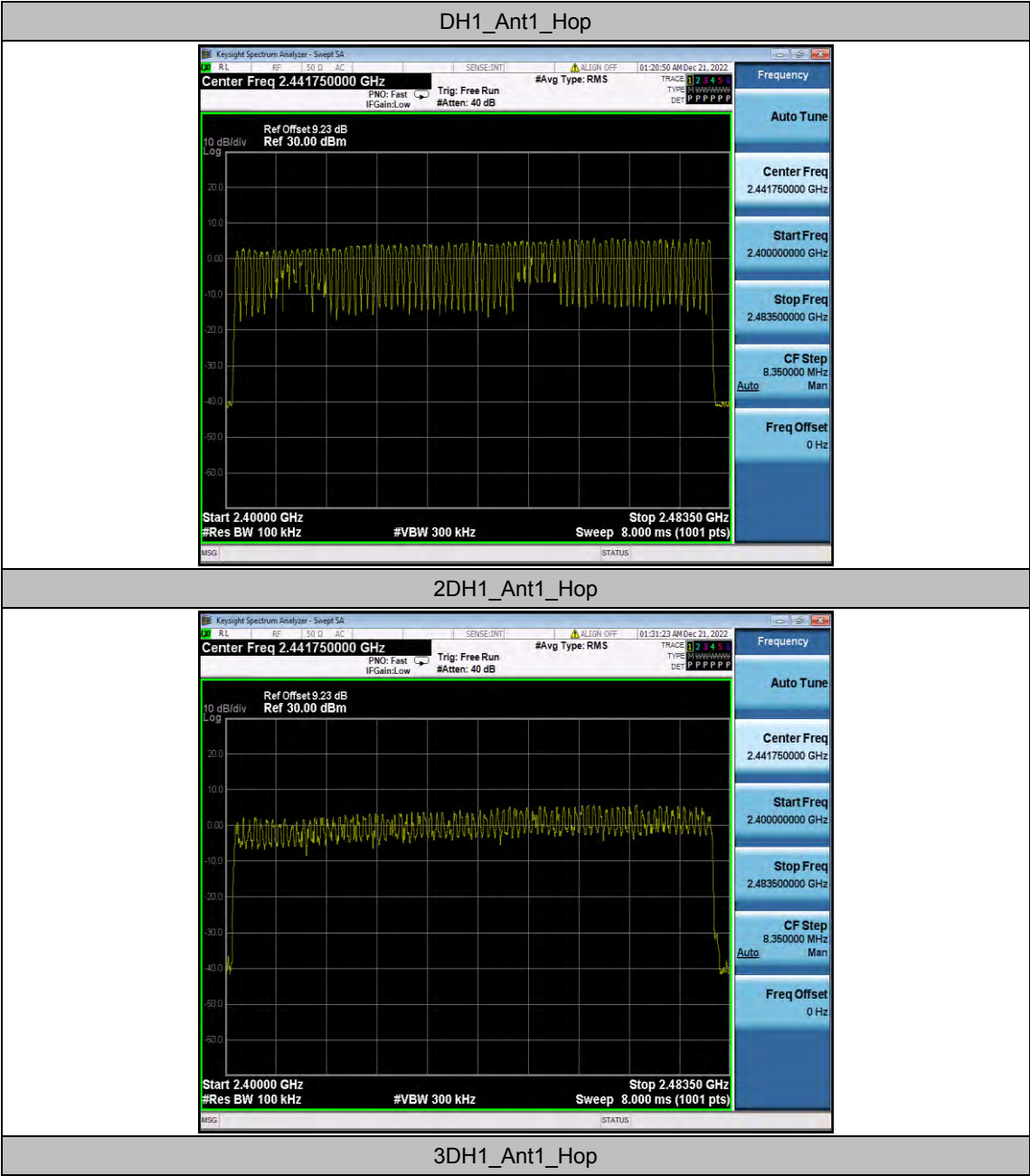


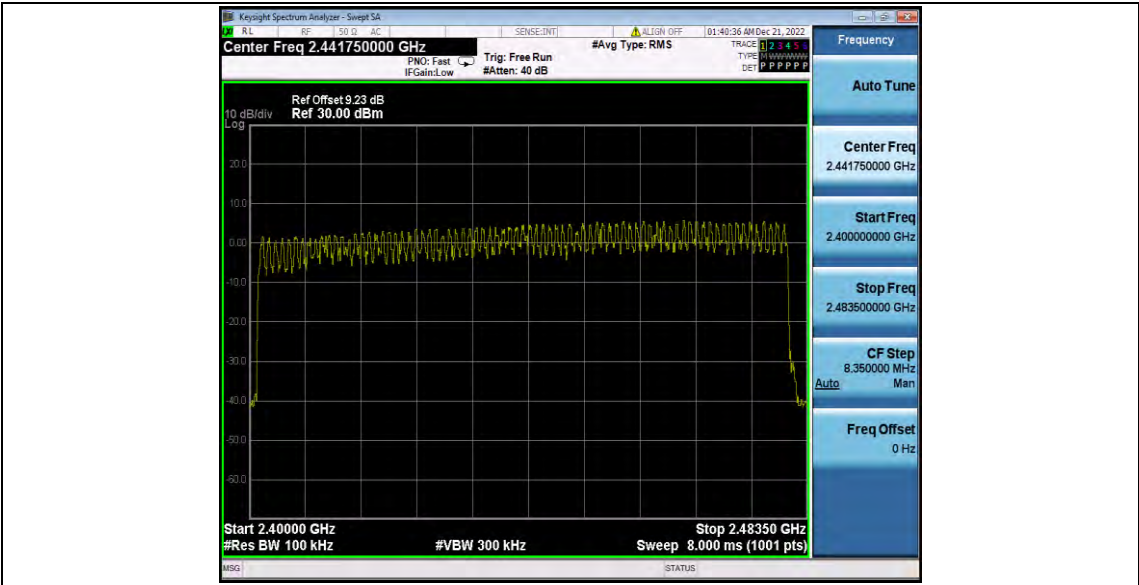
Appendix A.6: Number of hopping channels

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





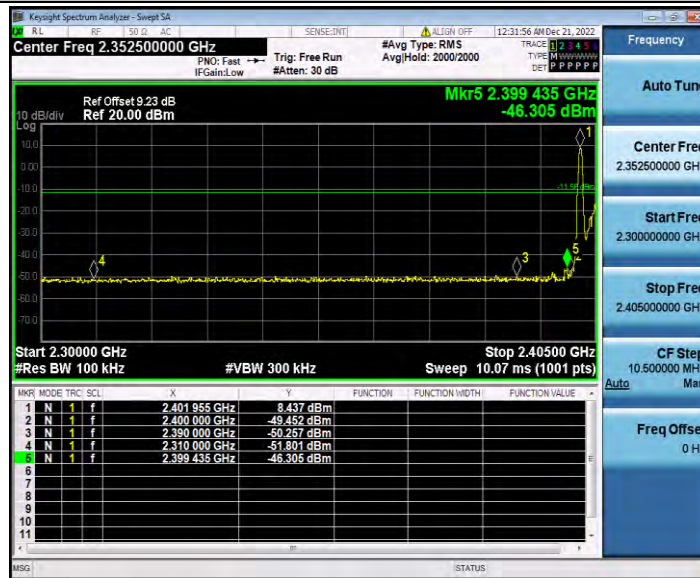
Appendix A.7: Band edge measurements

Test Result

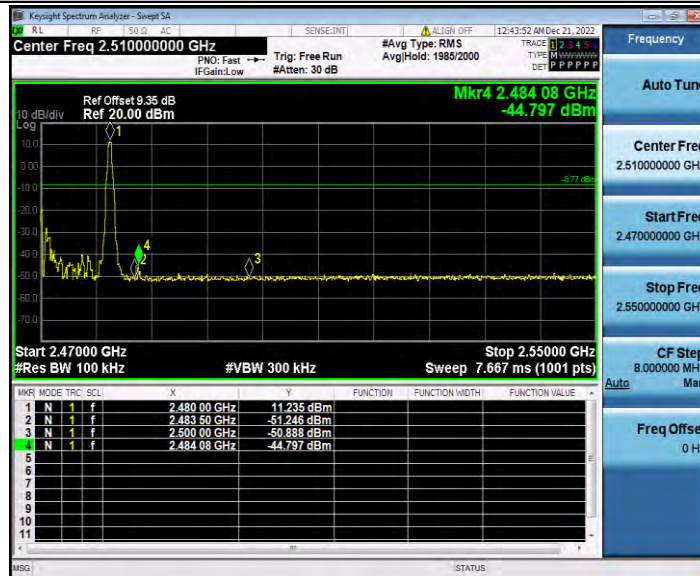
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.44	-46.31	≤-11.56	PASS
		High	2480	11.24	-44.8	≤-8.77	PASS
		Low	Hop_2402	2.18	-49.66	≤-17.82	PASS
		High	Hop_2480	5.13	-48.44	≤-14.88	PASS
2DH1	Ant1	Low	2402	2.23	-48.69	≤-17.77	PASS
		High	2480	5.55	-44.88	≤-14.45	PASS
		Low	Hop_2402	1.71	-49.24	≤-18.29	PASS
		High	Hop_2480	4.46	-48.38	≤-15.54	PASS
3DH1	Ant1	Low	2402	2.04	-49.27	≤-17.96	PASS
		High	2480	5.50	-48.25	≤-14.51	PASS
		Low	Hop_2402	1.67	-49.19	≤-18.33	PASS
		High	Hop_2480	5.33	-48.83	≤-14.67	PASS

Test Graphs

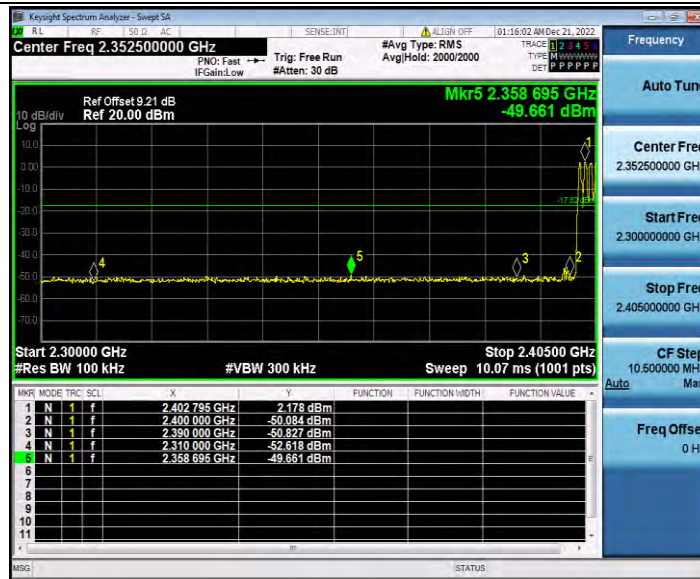
DH1_Ant1_Low_2402



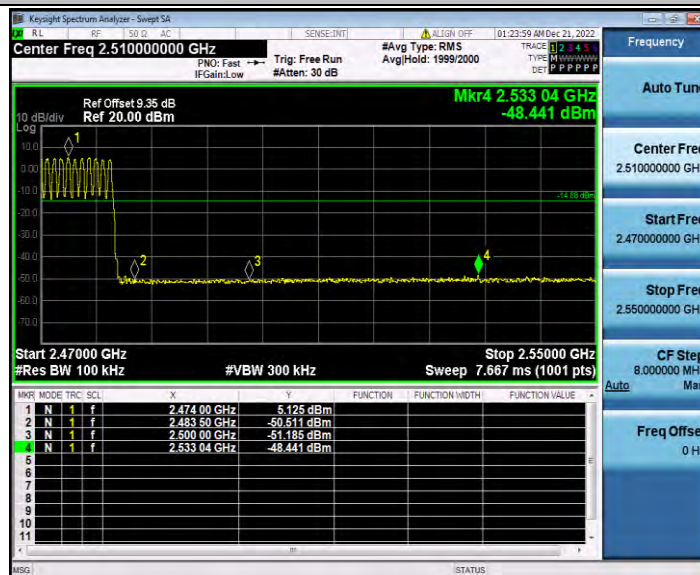
DH1_Ant1_High_2480



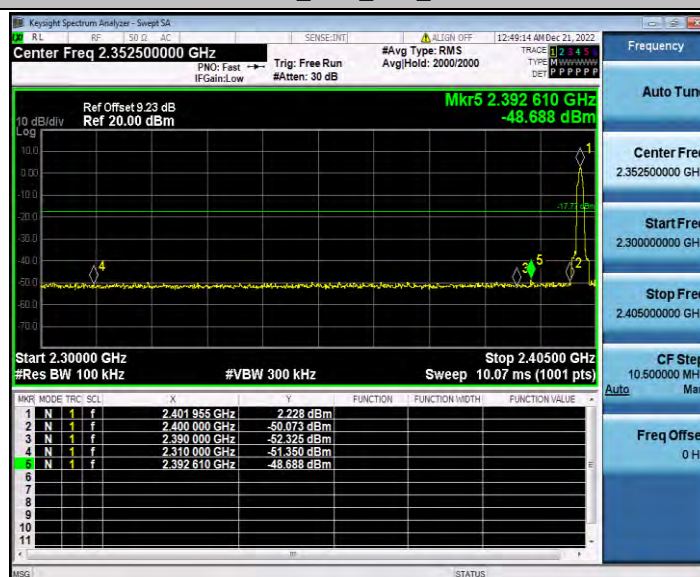
DH1_Ant1_Low_Hop_2402



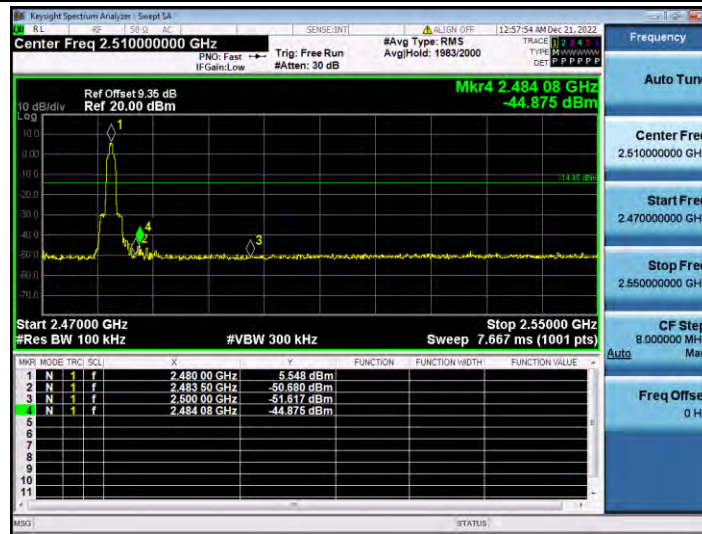
DH1_Ant1_High_Hop_2480



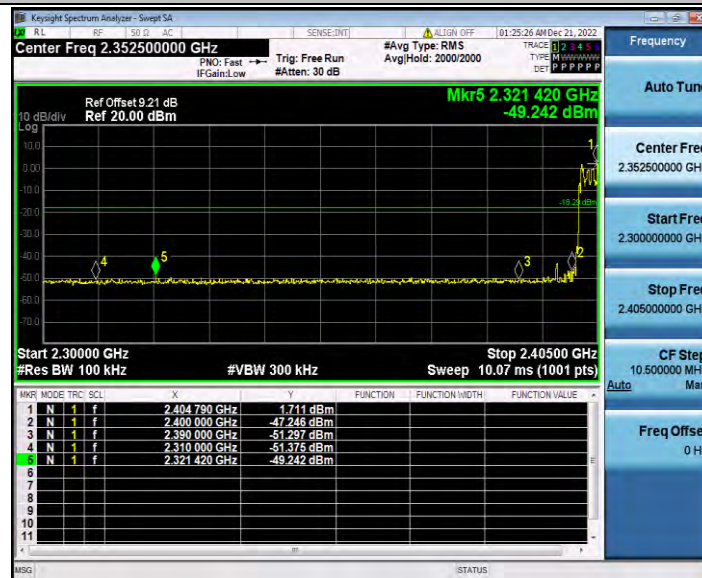
2DH1_Ant1_Low_2402



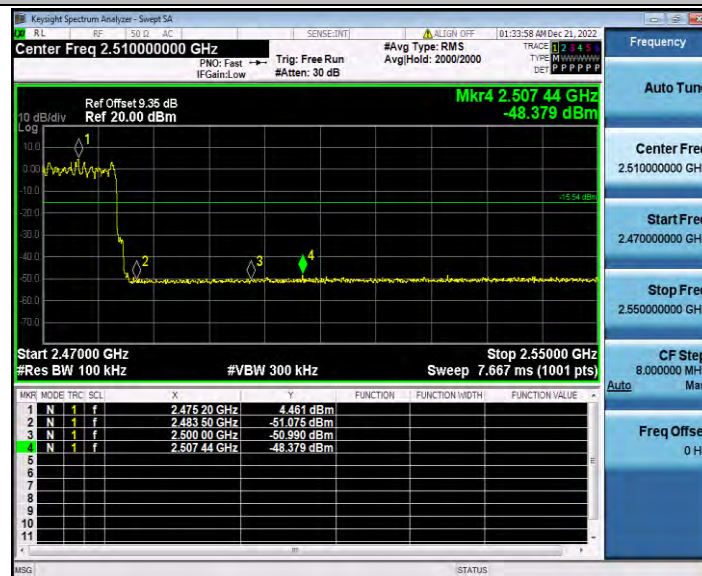
2DH1_Ant1_High_2480



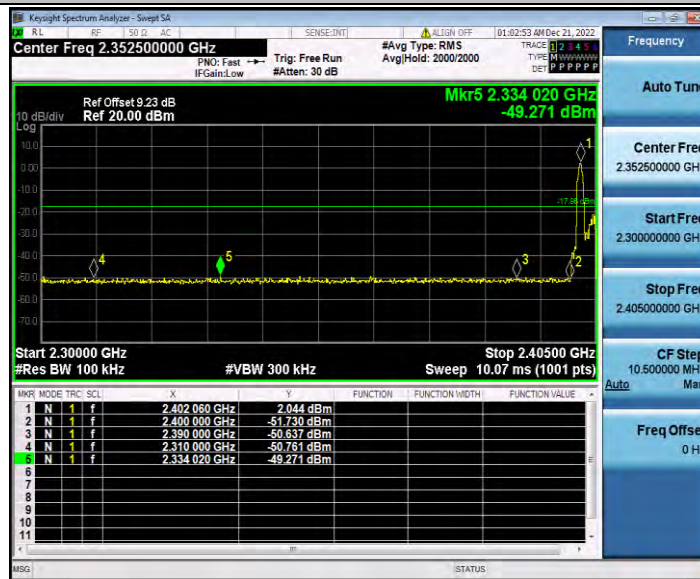
2DH1_Ant1_Low_Hop_2402



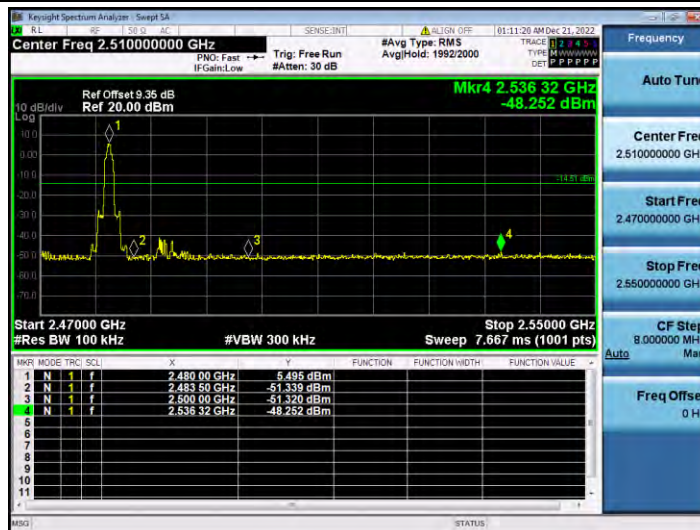
2DH1_Ant1_High_Hop_2480



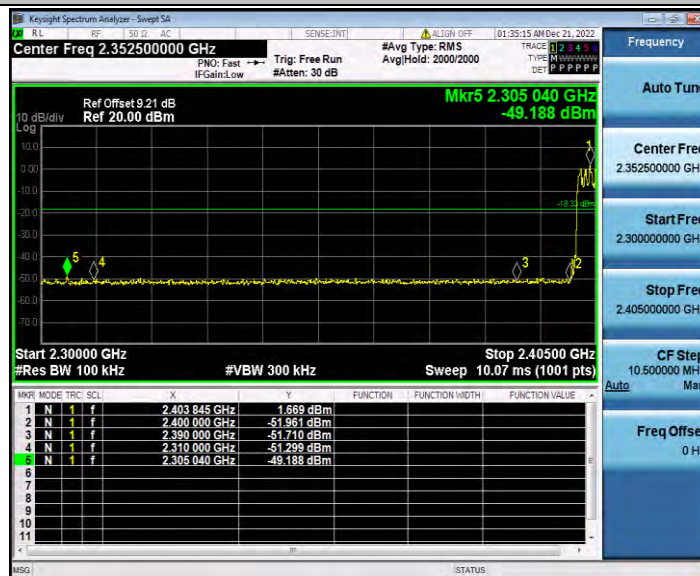
3DH1_Ant1_Low_2402



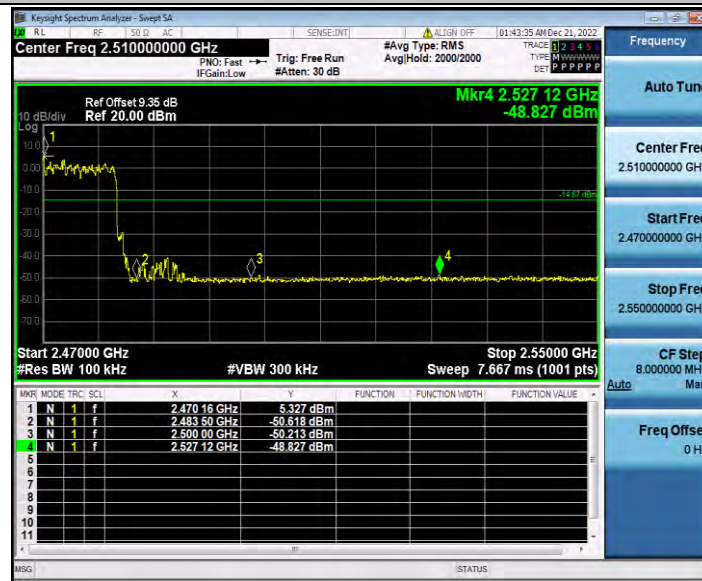
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

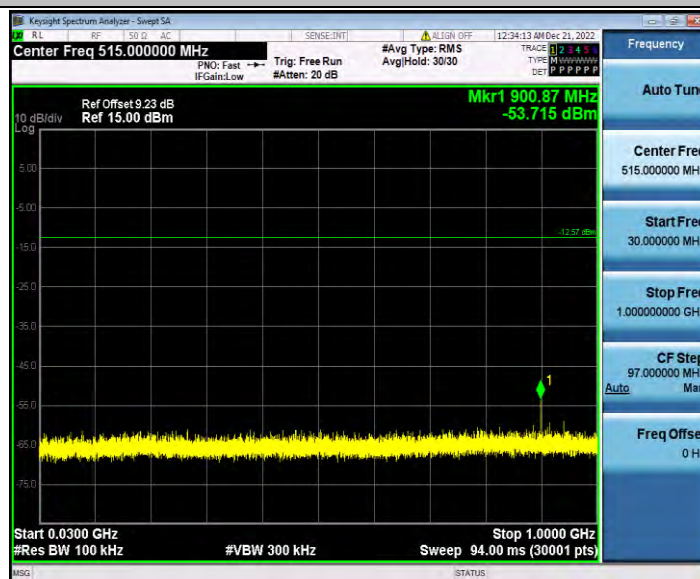
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.43	7.43	---	PASS
			30~1000	7.43	-53.72	≤-12.57	PASS
			1000~26500	7.43	-47.6	≤-12.57	PASS
		2441	Reference	10.21	10.21	---	PASS
			30~1000	10.21	-59.88	≤-9.79	PASS
			1000~26500	10.21	-47.72	≤-9.79	PASS
		2480	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-59.76	≤-14.68	PASS
			1000~26500	5.32	-47.12	≤-14.68	PASS
2DH1	Ant1	2402	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-59.2	≤-18.5	PASS
			1000~26500	1.50	-47.71	≤-18.5	PASS
		2441	Reference	4.56	4.56	---	PASS
			30~1000	4.56	-59.03	≤-15.44	PASS
			1000~26500	4.56	-47.42	≤-15.44	PASS
		2480	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-59.39	≤-14.8	PASS
			1000~26500	5.20	-47	≤-14.8	PASS
3DH1	Ant1	2402	Reference	1.78	1.78	---	PASS
			30~1000	1.78	-60.11	≤-18.22	PASS
			1000~26500	1.78	-46.88	≤-18.22	PASS
		2441	Reference	4.51	4.51	---	PASS
			30~1000	4.51	-59.85	≤-15.49	PASS
			1000~26500	4.51	-47.91	≤-15.49	PASS
		2480	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-59.48	≤-16.46	PASS
			1000~26500	3.54	-44.84	≤-16.46	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



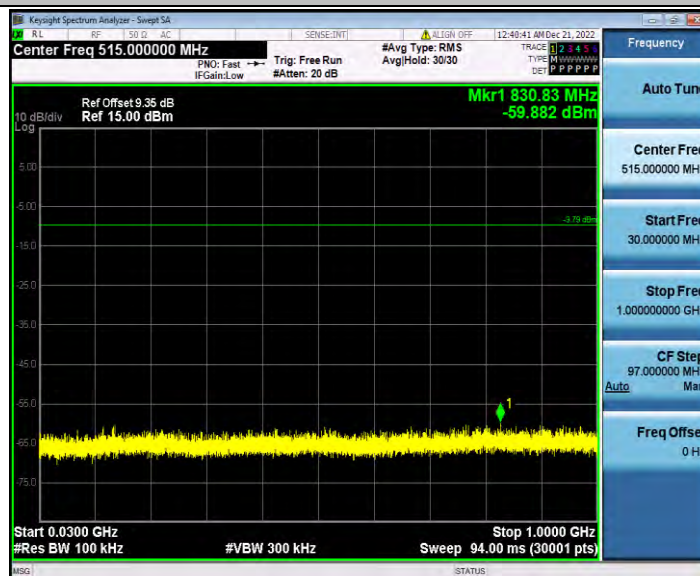
DH1_Ant1_2402_1000~26500



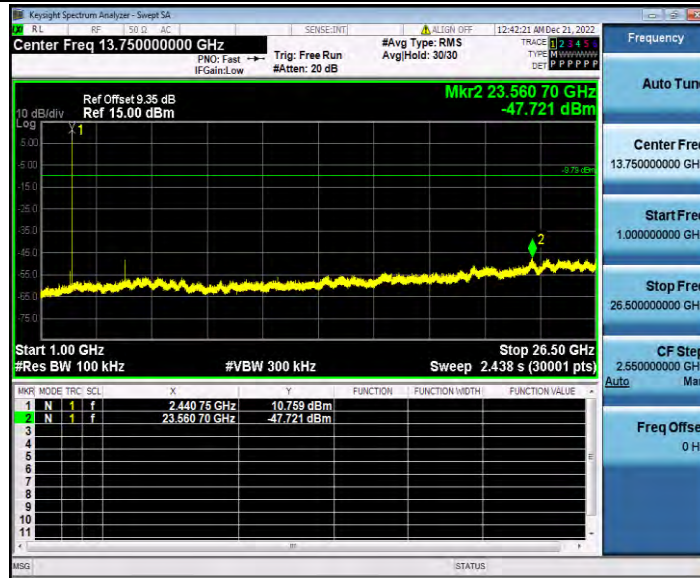
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



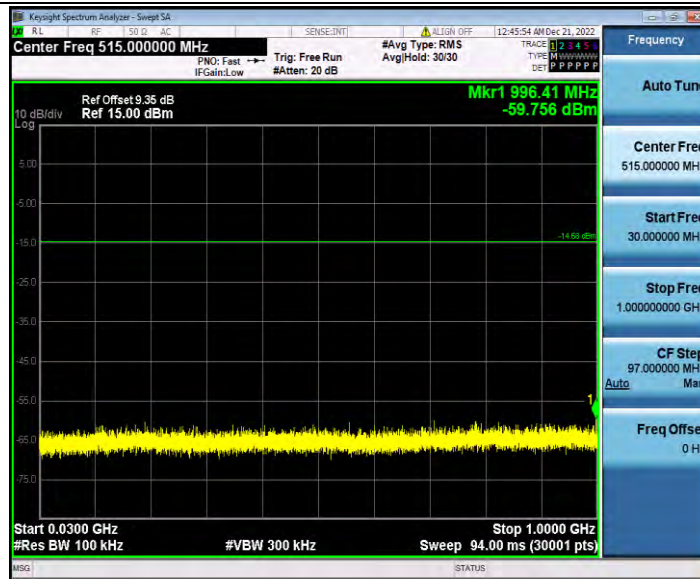
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



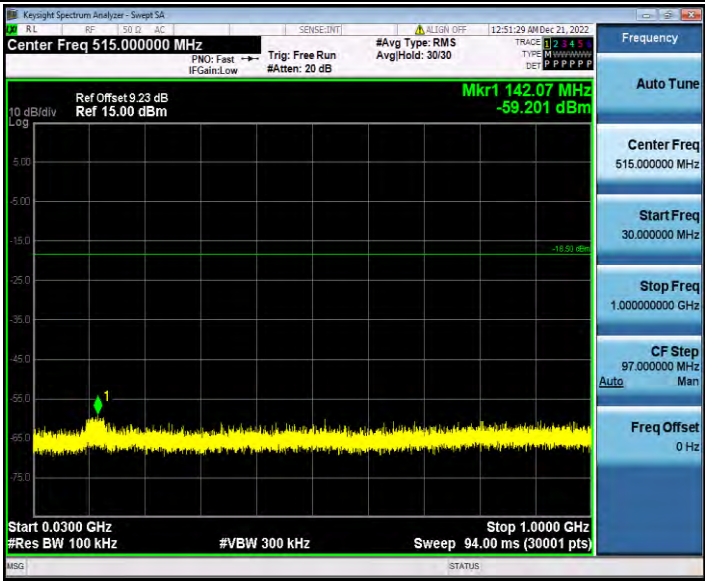
DH1_Ant1_2480_1000~26500



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



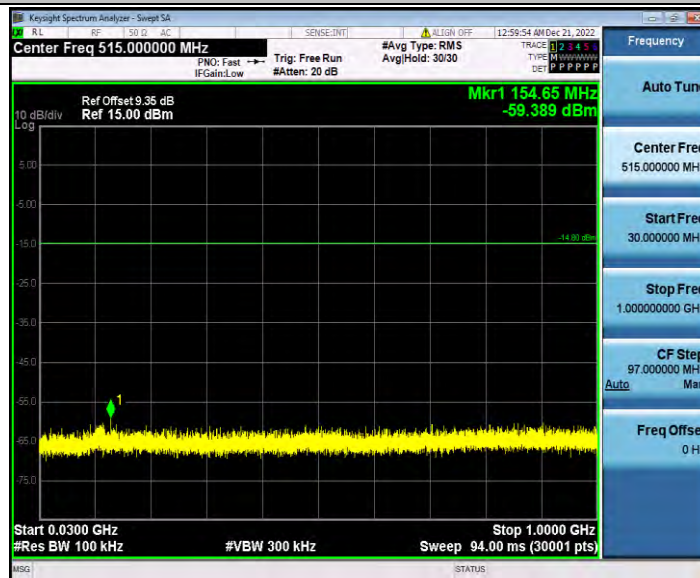
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



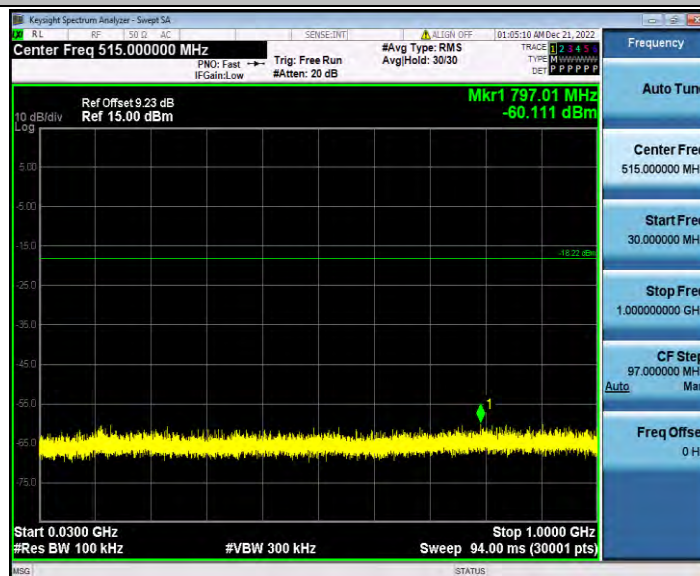
2DH1_Ant1_2480_1000~26500



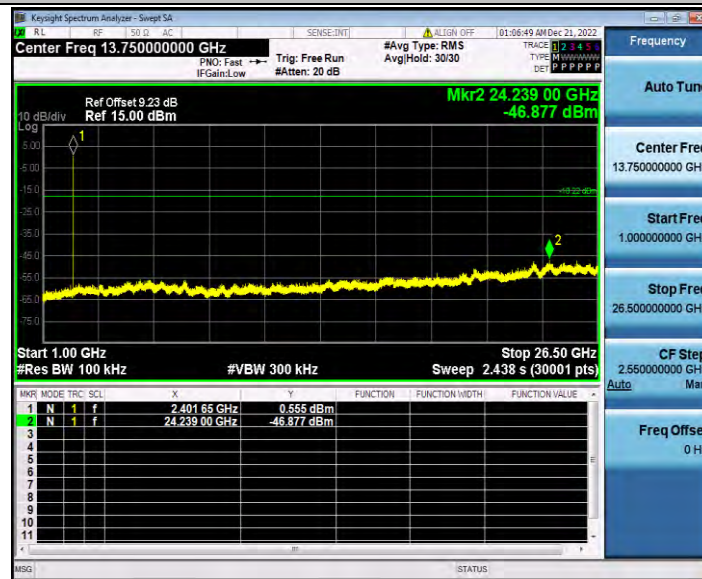
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



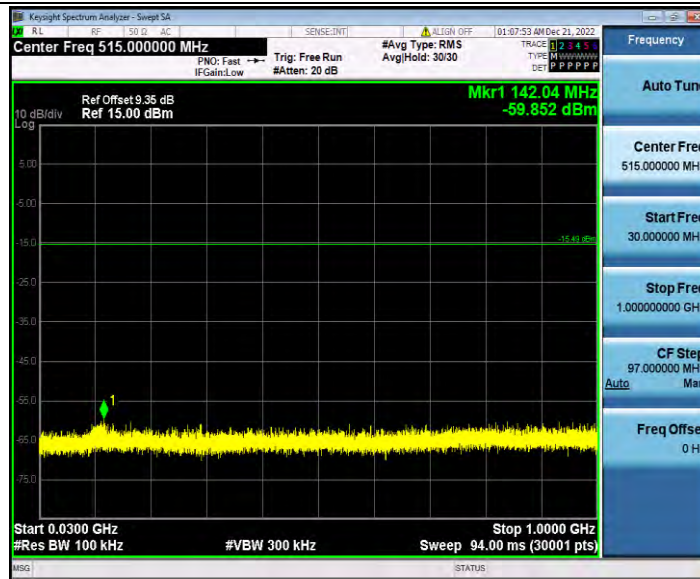
3DH1_Ant1_2402_1000~26500



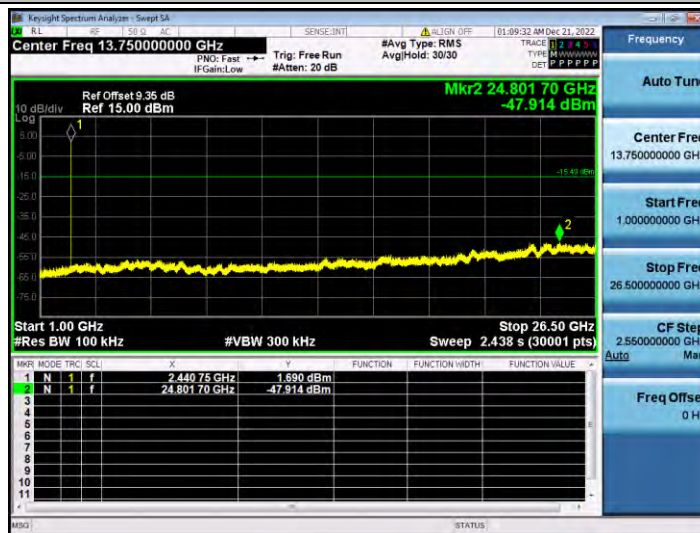
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



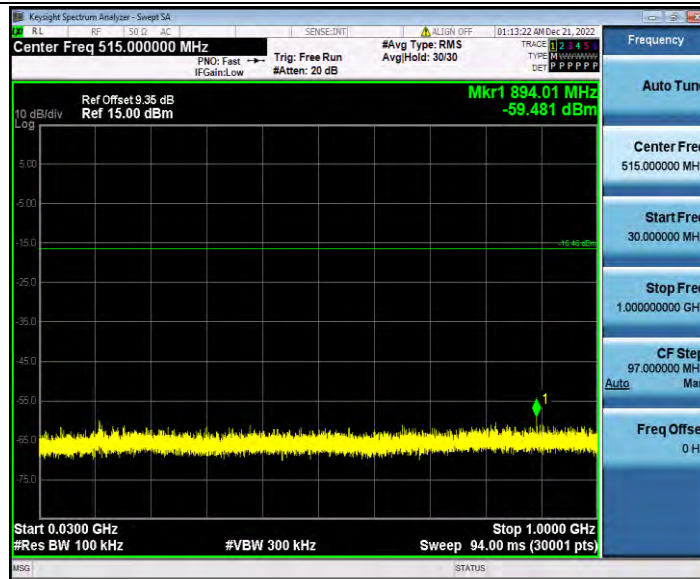
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

