

Case No. : GTS20221101025-1-12	
Ambient Condition: 26 °C, 50 %RH,	
Test Date: 2022.11.18	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	0.990	2401.499	2402.489	---	---
		2441	0.942	2440.502	2441.444	---	---
		2480	0.978	2479.499	2480.477	---	---
2DH1	Ant1	2402	1.257	2401.367	2402.624	---	---
		2441	1.269	2440.388	2441.657	---	---
		2480	1.299	2479.367	2480.666	---	---
3DH1	Ant1	2402	1.278	2401.373	2402.651	---	---
		2441	1.290	2440.361	2441.651	---	---
		2480	1.287	2479.358	2480.645	---	---

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	0.91802	2401.546	2402.464	---	---
		2441	0.90971	2440.541	2441.451	---	---
		2480	0.91811	2479.543	2480.461	---	---
2DH1	Ant1	2402	1.1825	2401.433	2402.615	---	---
		2441	1.1821	2440.429	2441.611	---	---
		2480	1.1816	2479.426	2480.607	---	---
3DH1	Ant1	2402	1.1802	2401.442	2402.622	---	---
		2441	1.1934	2440.424	2441.617	---	---
		2480	1.1908	2479.421	2480.612	---	---

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	4.12	≤30.00	PASS
		2441	2.39	≤30.00	PASS
		2480	-0.51	≤30.00	PASS
2DH1	Ant1	2402	4.21	≤20.97	PASS
		2441	2.29	≤20.97	PASS
		2480	-0.50	≤20.97	PASS
3DH1	Ant1	2402	4.25	≤20.97	PASS
		2441	2.40	≤20.97	PASS
		2480	-0.51	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.008	≥ 0.990	PASS
		Hop_2441	0.998	≥ 0.990	PASS
		Hop_2480	1.002	≥ 0.990	PASS
2DH1	Ant1	Hop_2402	1.000	≥ 0.866	PASS
		Hop_2441	1.006	≥ 0.866	PASS
		Hop_2480	1.006	≥ 0.866	PASS
3DH1	Ant1	Hop_2402	0.998	≥ 0.860	PASS
		Hop_2441	1.006	≥ 0.860	PASS
		Hop_2480	0.996	≥ 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



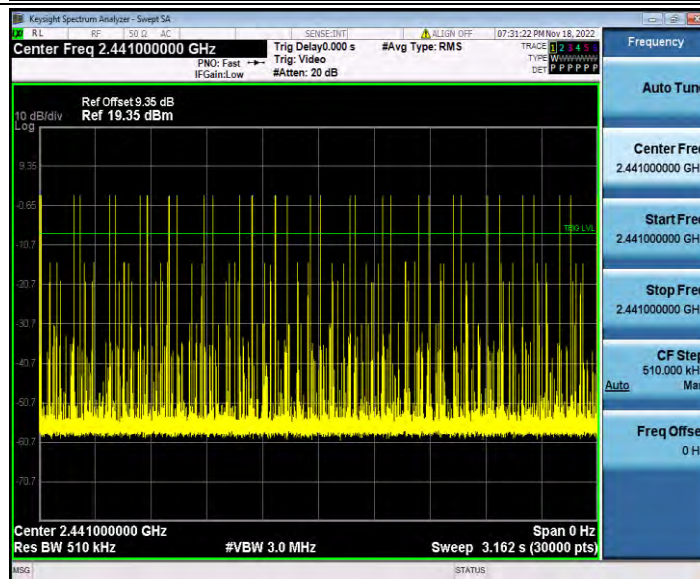
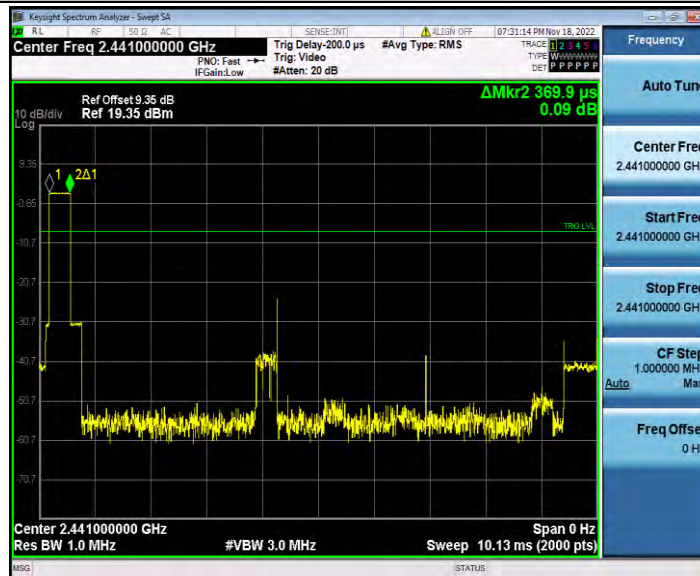
Appendix A.5: Time of occupancy

Test Result

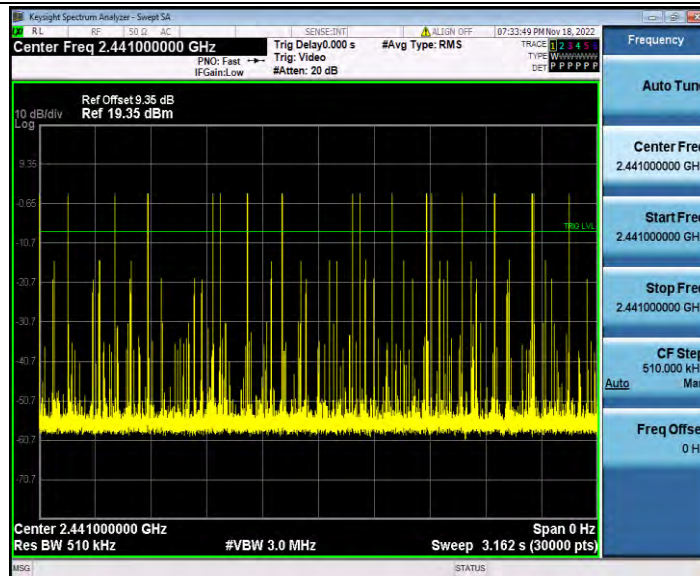
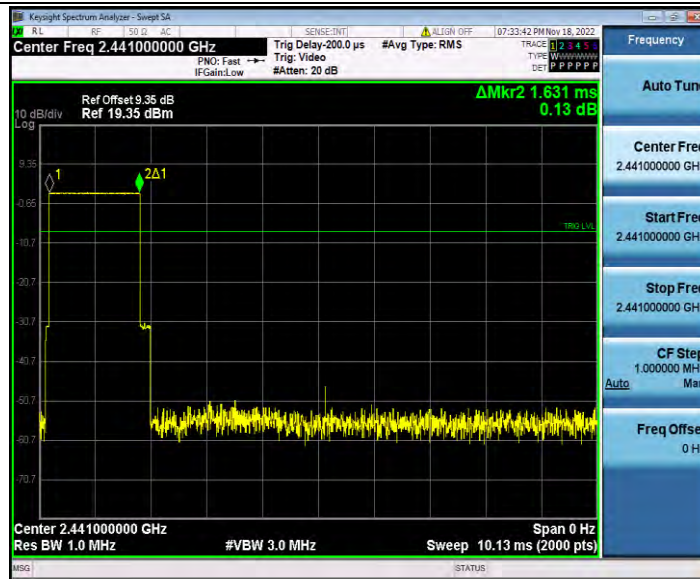
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.63	180	0.294	≤0.4	PASS
DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.63	150	0.245	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.63	200	0.325	≤0.4	PASS
3DH5	Ant1	Hop	2.88	130	0.375	≤0.4	PASS

Test Graphs

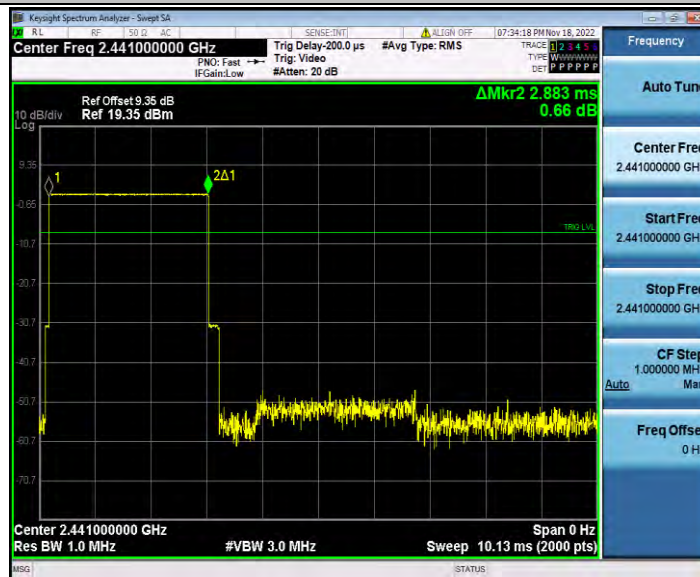
DH1_Ant1_Hop

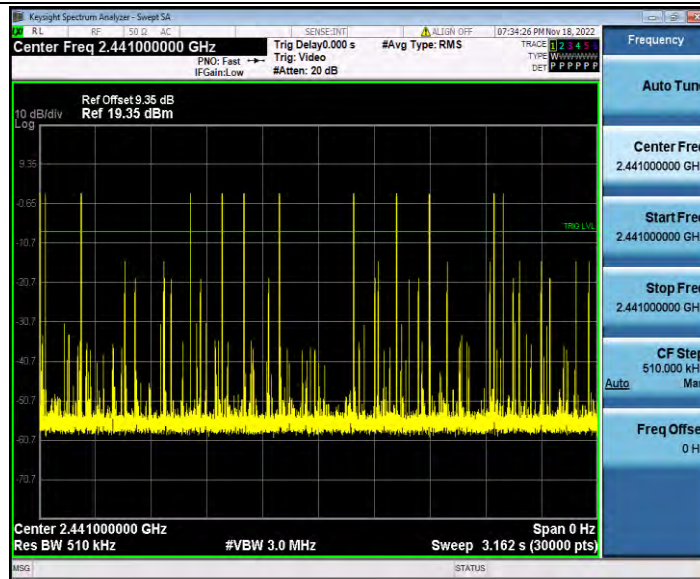


DH3_Ant1_Hop

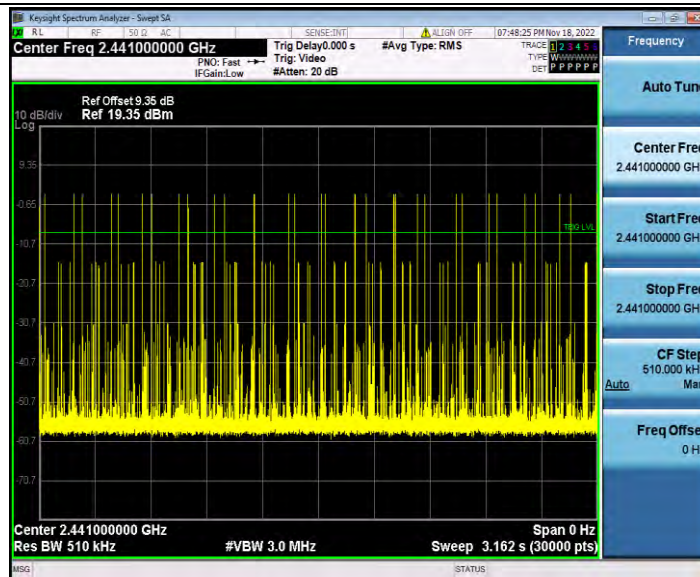
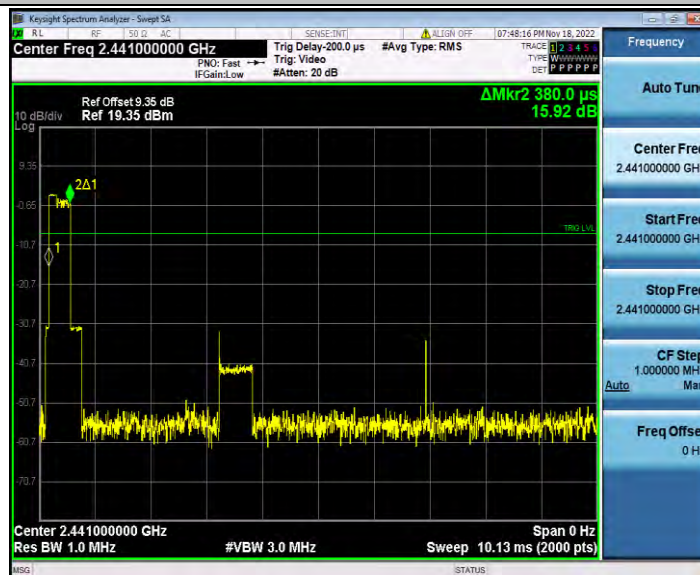


DH5_Ant1_Hop

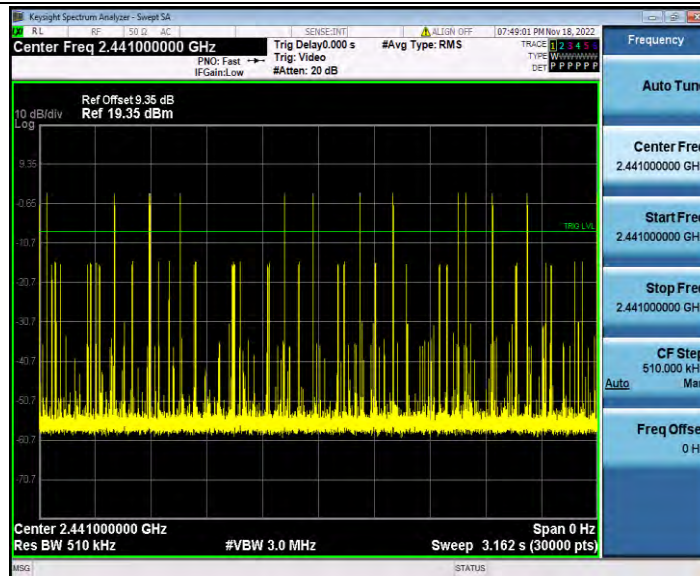
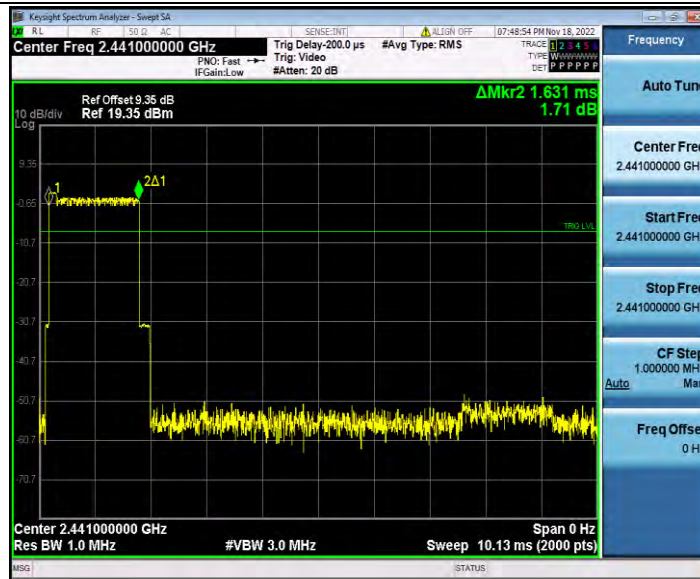




2DH1_Ant1_Hop

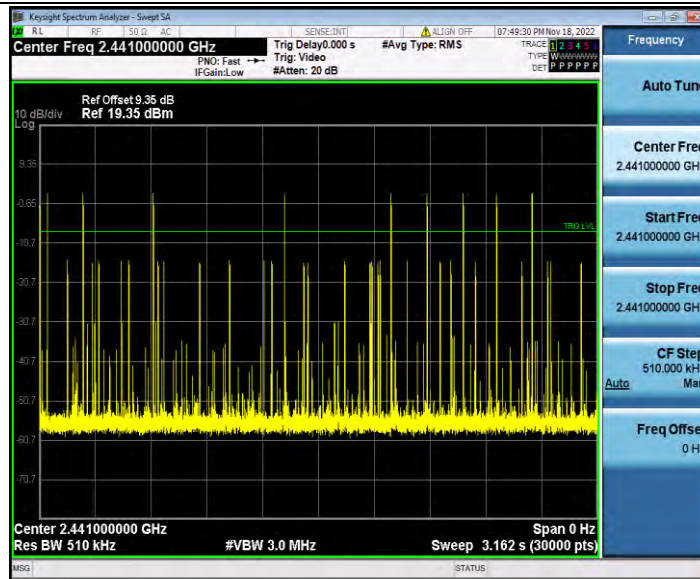


2DH3_Ant1_Hop

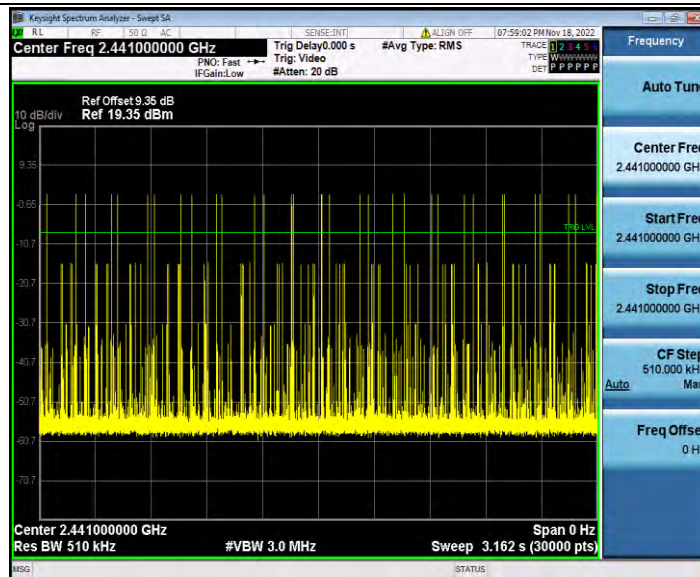
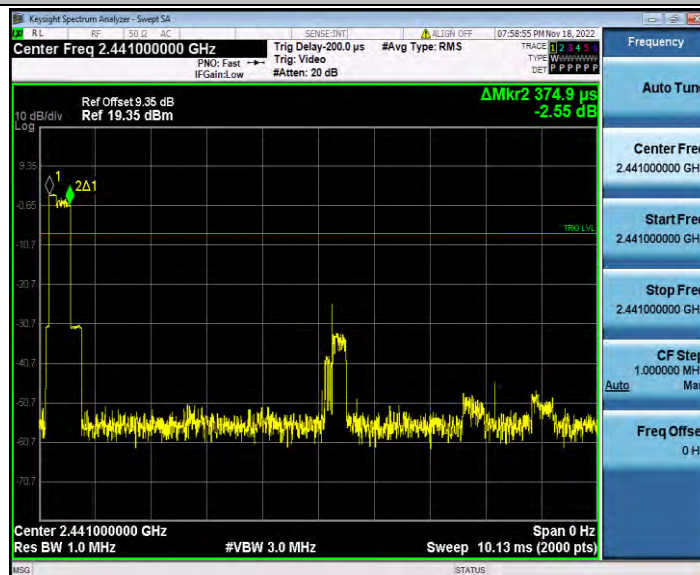


2DH5_Ant1_Hop

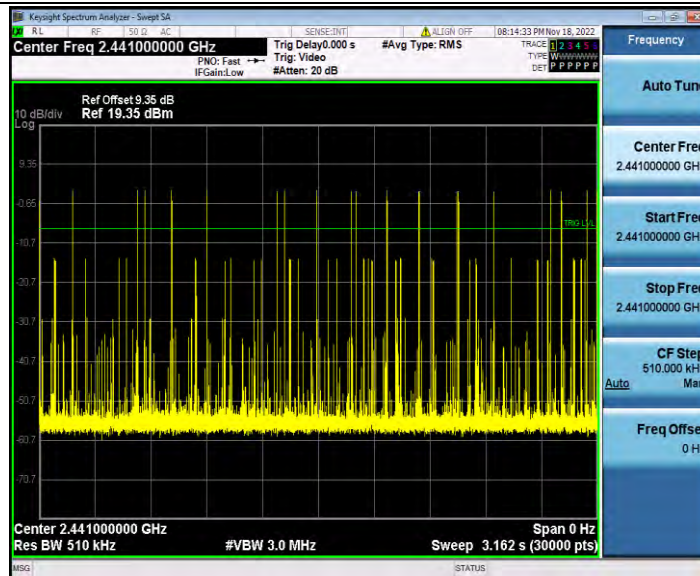
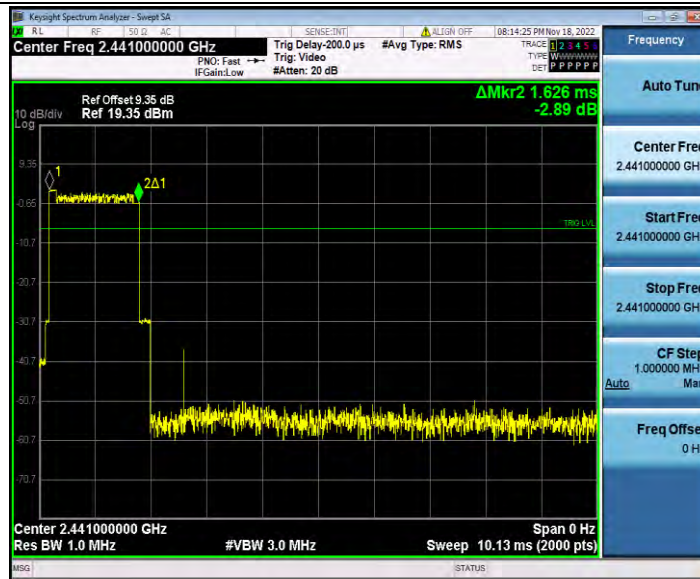




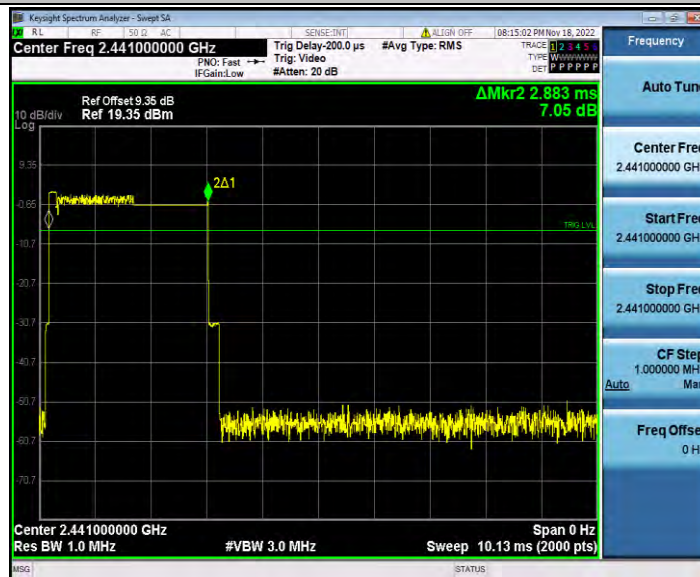
3DH1_Ant1_Hop

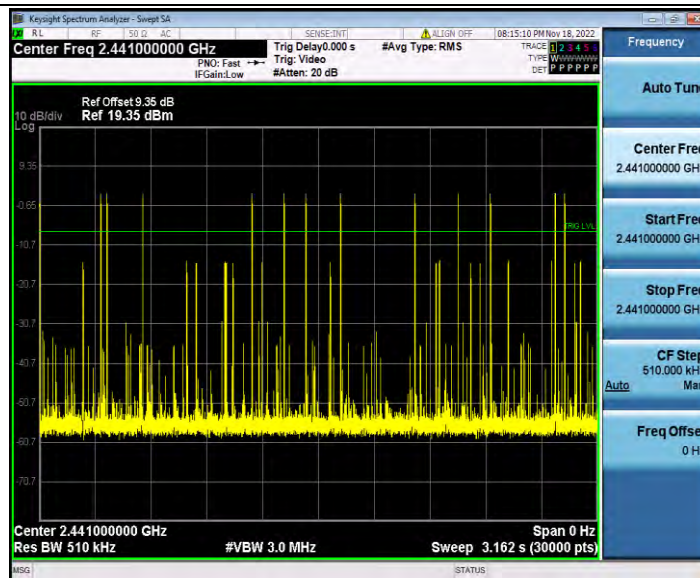


3DH3_Ant1_Hop



3DH5_Ant1_Hop





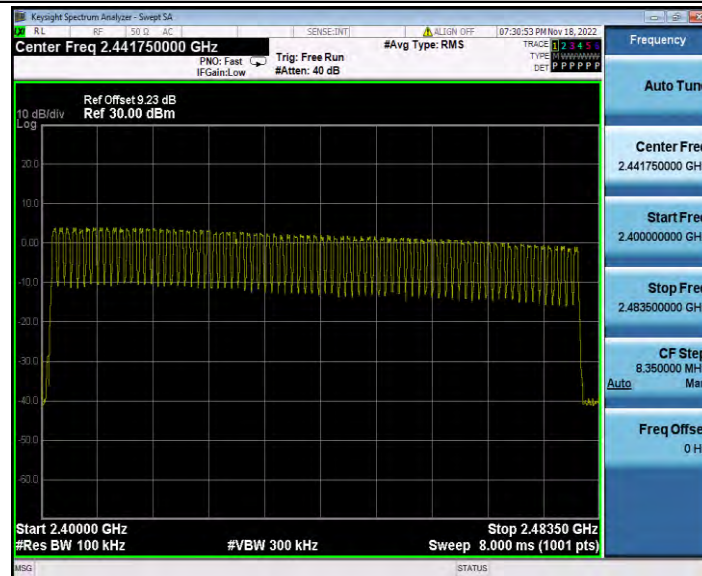
Appendix A.6: Number of hopping channels

Test Result

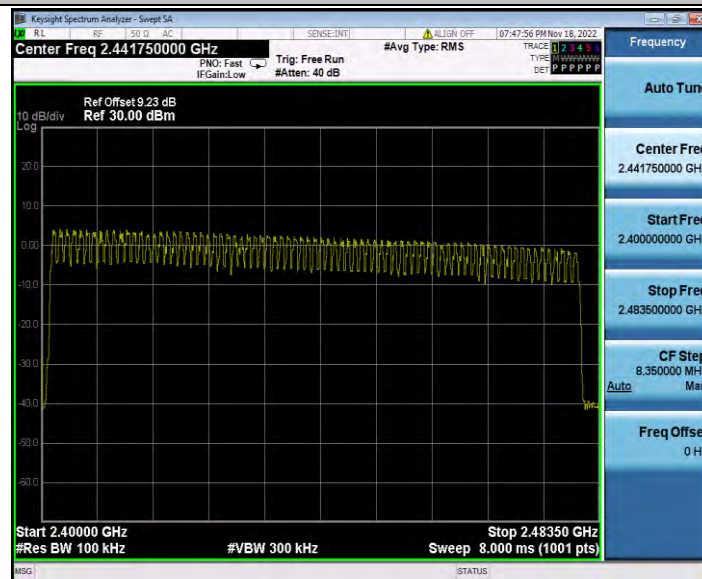
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



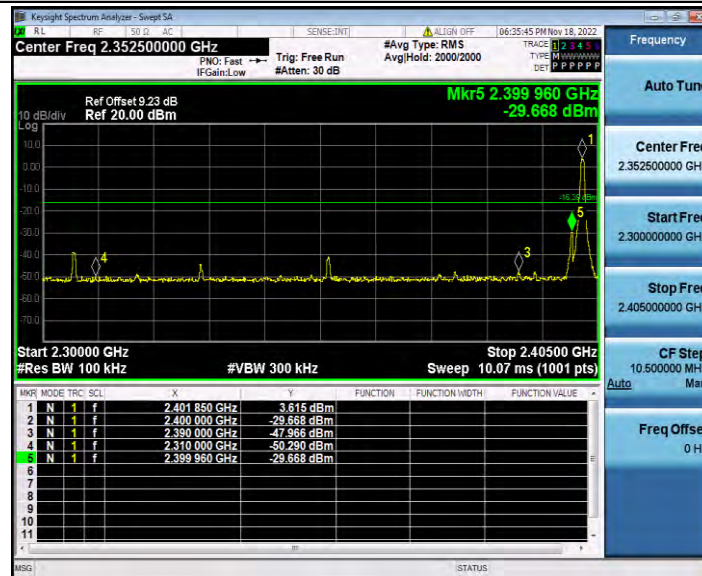
Appendix A.7: Band edge measurements

Test Result

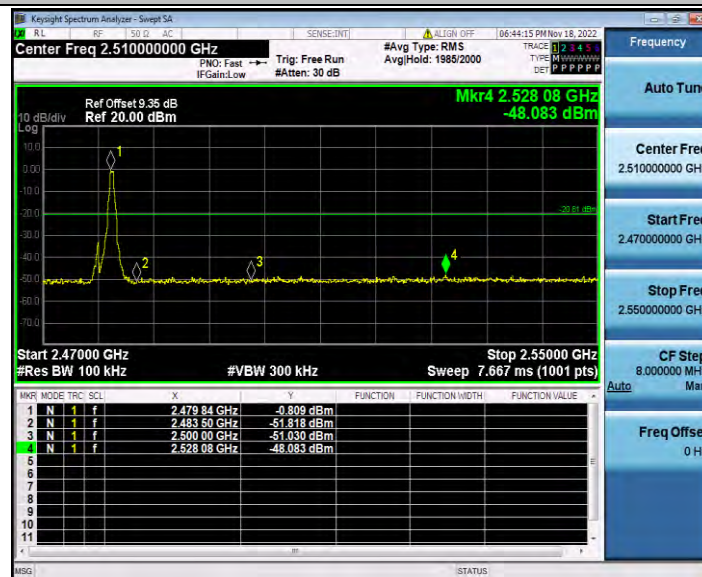
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	3.62	-29.67	≤-16.39	PASS
		High	2480	-0.81	-48.08	≤-20.81	PASS
		Low	Hop_2402	3.91	-39.19	≤-16.09	PASS
		High	Hop_2480	-0.46	-44.24	≤-20.46	PASS
2DH1	Ant1	Low	2402	3.94	-29.28	≤-16.06	PASS
		High	2480	-0.86	-48.72	≤-20.86	PASS
		Low	Hop_2402	3.90	-39.08	≤-16.1	PASS
		High	Hop_2480	-0.09	-44.88	≤-20.09	PASS
3DH1	Ant1	Low	2402	3.99	-29.25	≤-16.02	PASS
		High	2480	-0.81	-47.04	≤-20.81	PASS
		Low	Hop_2402	3.65	-38.42	≤-16.35	PASS
		High	Hop_2480	-0.14	-45.09	≤-20.14	PASS

Test Graphs

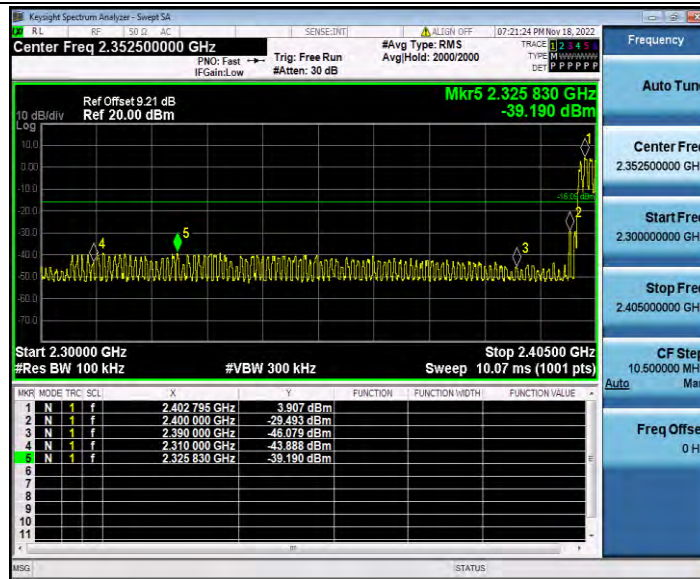
DH1_Ant1_Low_2402



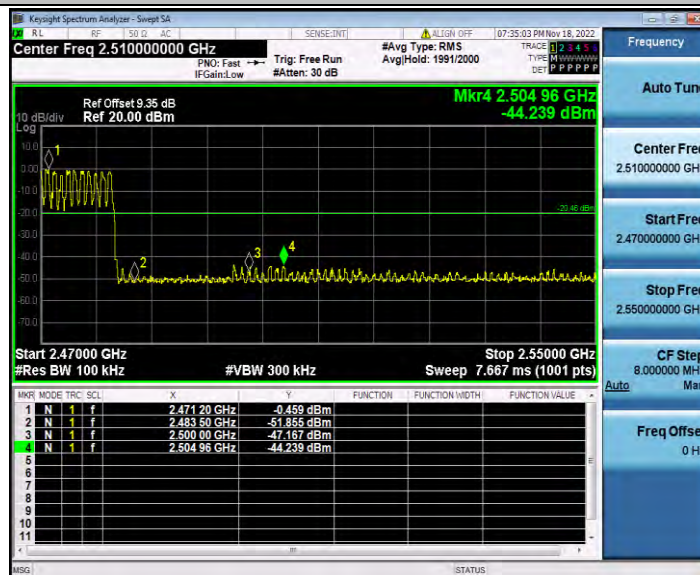
DH1_Ant1_High_2480



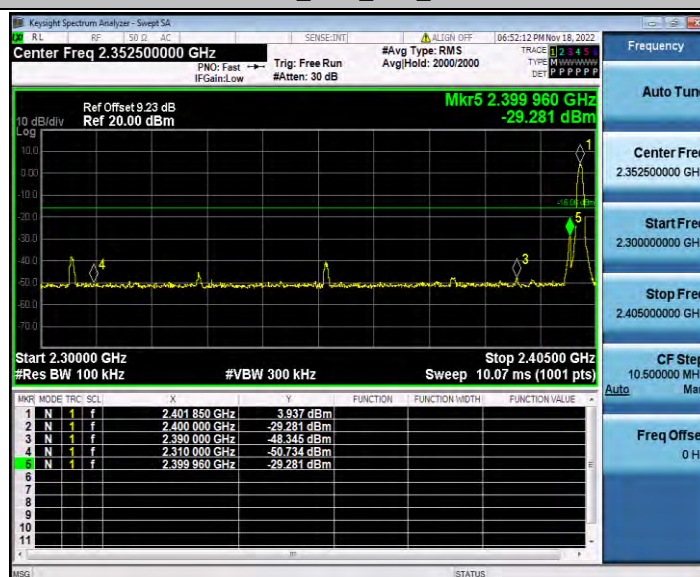
DH1_Ant1_Low_Hop_2402



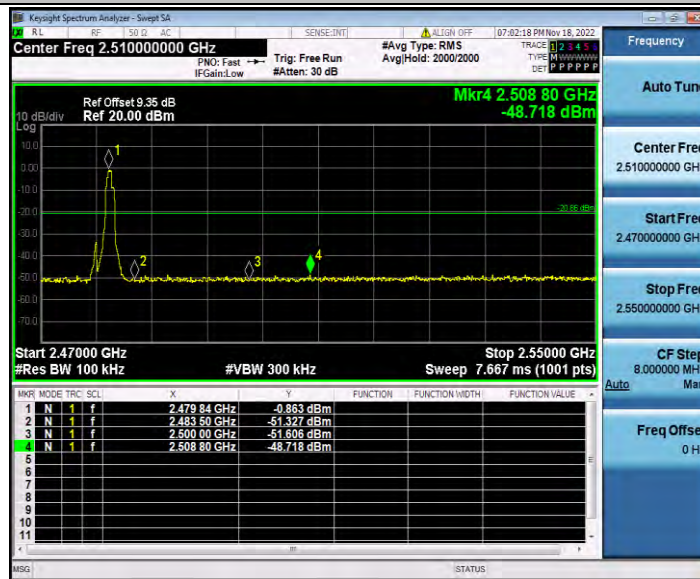
DH1_Ant1_High_Hop_2480



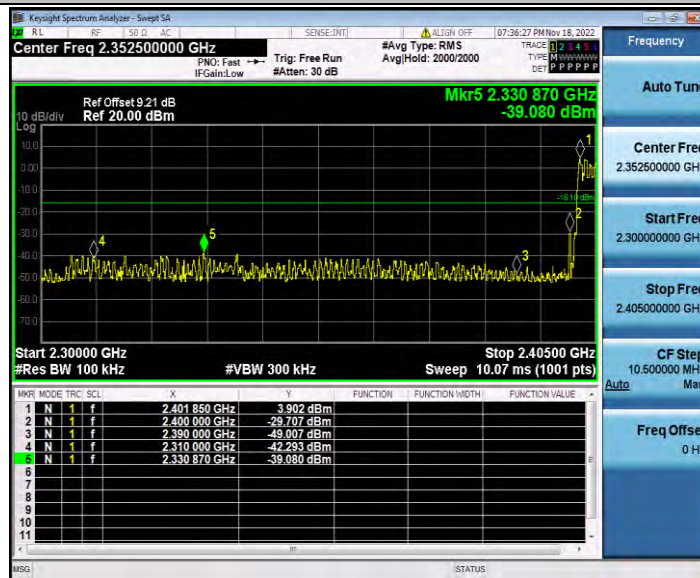
2DH1_Ant1_Low_2402



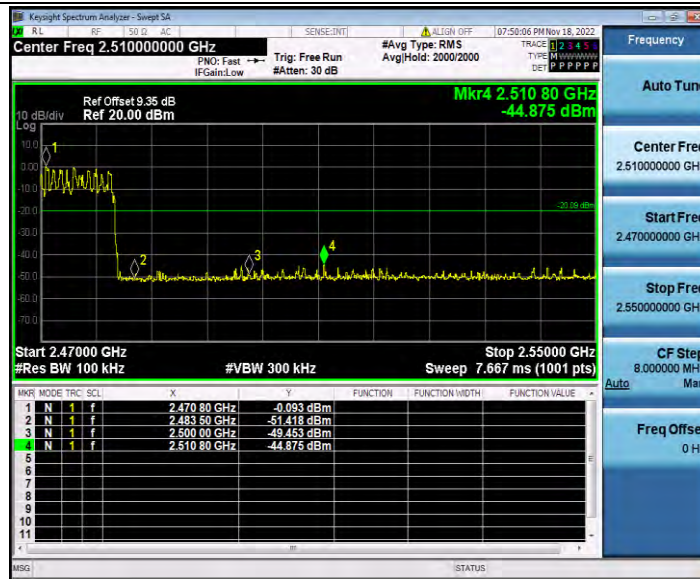
2DH1_Ant1_High_2480



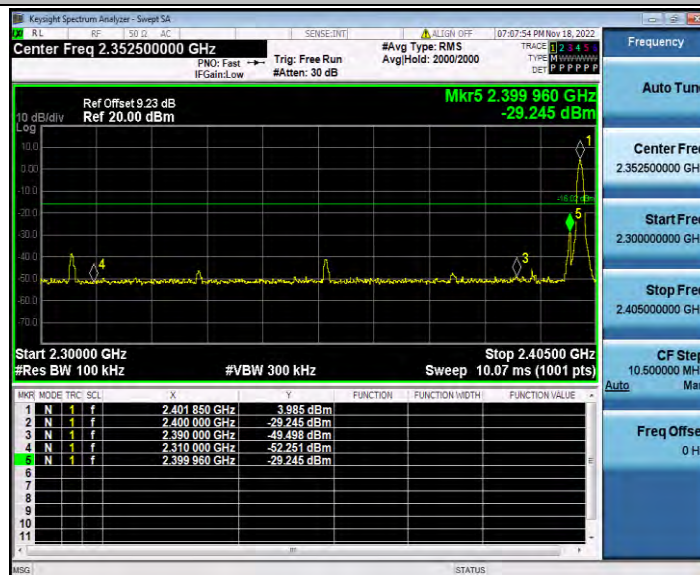
2DH1_Ant1_Low_Hop_2402



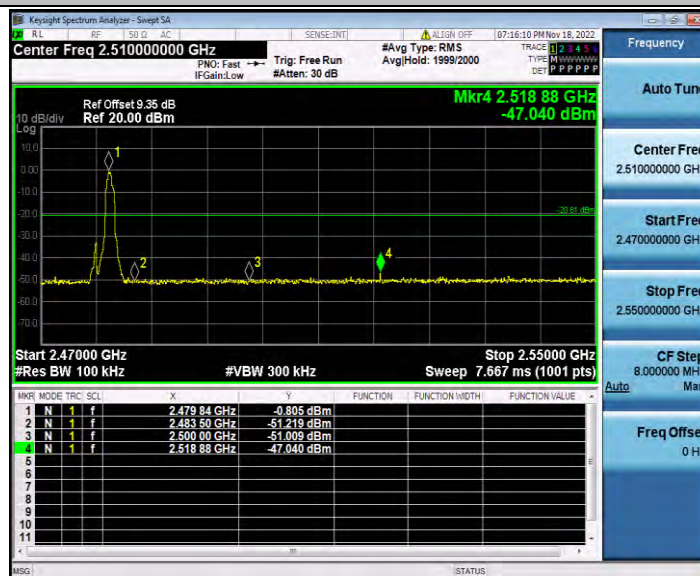
2DH1_Ant1_High_Hop_2480



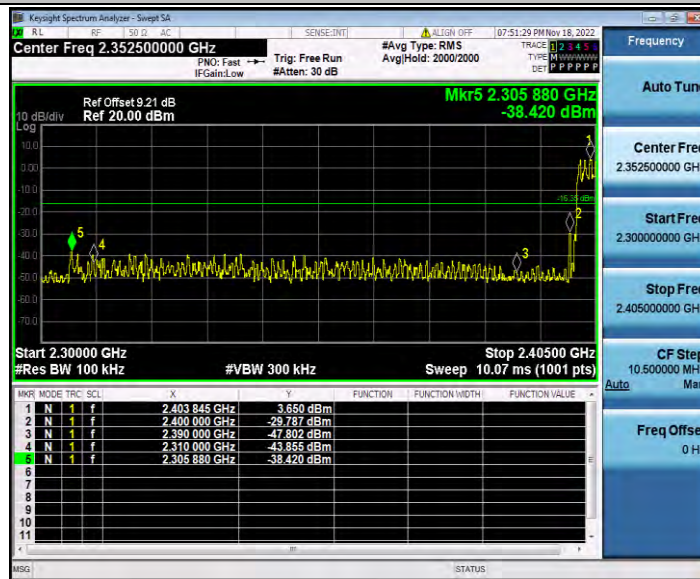
3DH1_Ant1_Low_2402



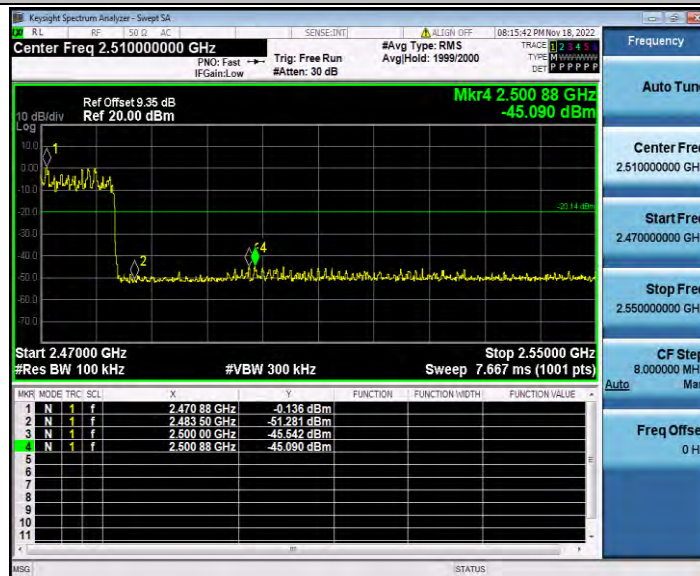
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

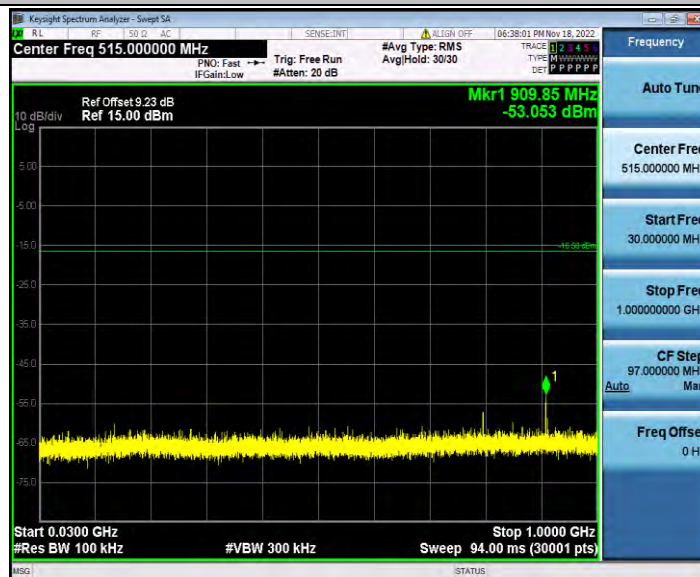
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	3.42	3.42	---	PASS
			30~1000	3.42	-53.05	≤-16.58	PASS
			1000~26500	3.42	-34.32	≤-16.58	PASS
		2441	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-57.2	≤-18.09	PASS
			1000~26500	1.91	-40.3	≤-18.09	PASS
		2480	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-59.7	≤-21.08	PASS
			1000~26500	-1.08	-44.56	≤-21.08	PASS
2DH1	Ant1	2402	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-57.44	≤-16.4	PASS
			1000~26500	3.60	-42.65	≤-16.4	PASS
		2441	Reference	1.85	1.85	---	PASS
			30~1000	1.85	-40.5	≤-18.15	PASS
			1000~26500	1.85	-31.97	≤-18.15	PASS
		2480	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-49.81	≤-21	PASS
			1000~26500	-1.00	-42.84	≤-21	PASS
3DH1	Ant1	2402	Reference	3.73	3.73	---	PASS
			30~1000	3.73	-57.44	≤-16.27	PASS
			1000~26500	3.73	-41.53	≤-16.27	PASS
		2441	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-50.68	≤-18.49	PASS
			1000~26500	1.51	-40.42	≤-18.49	PASS
		2480	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-59.62	≤-20.85	PASS
			1000~26500	-0.85	-46.23	≤-20.85	PASS

Test Graphs

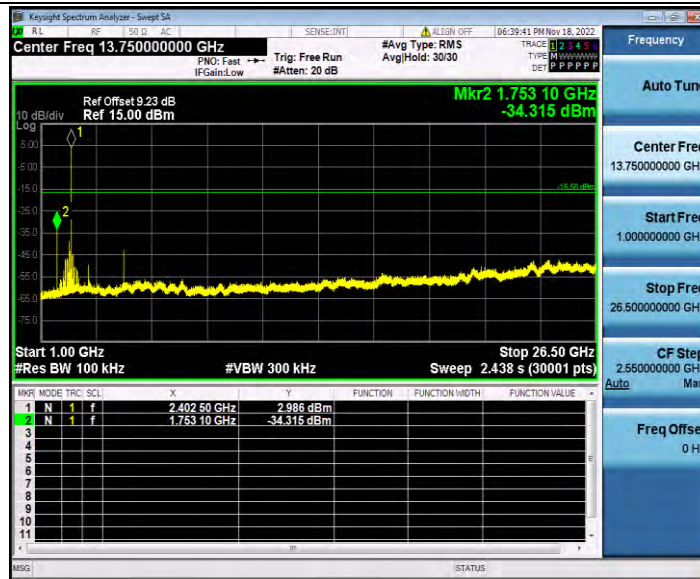
DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



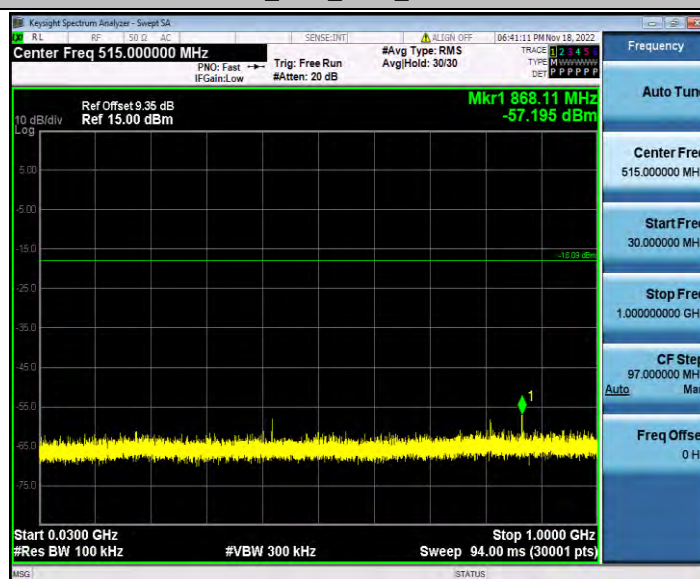
DH1_Ant1_2402_1000~26500



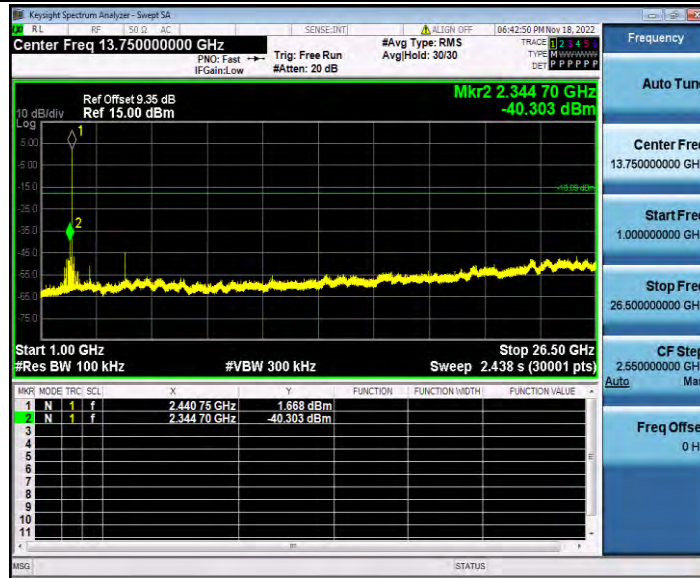
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



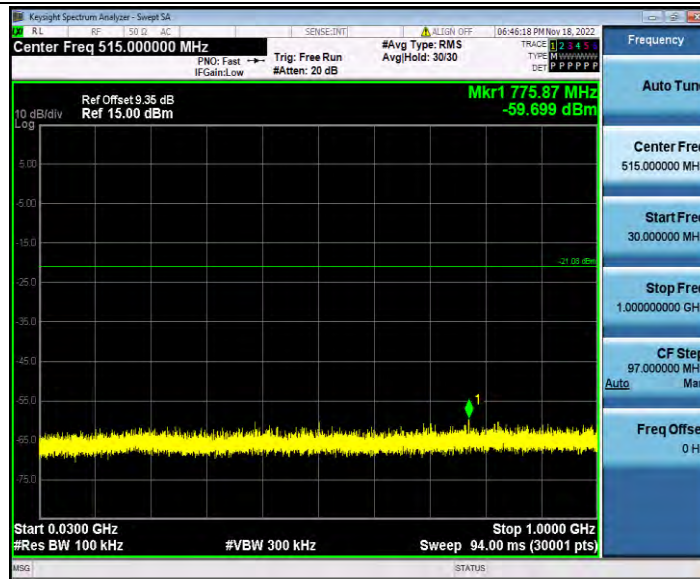
DH1_Ant1_2441_1000~26500



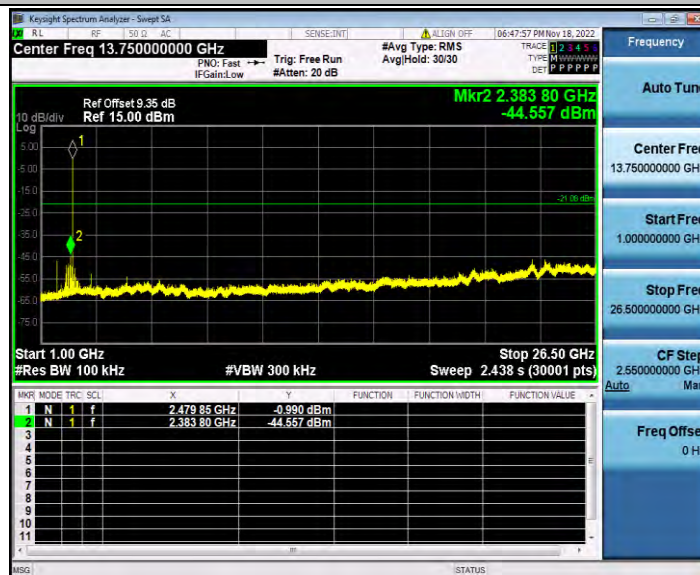
DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



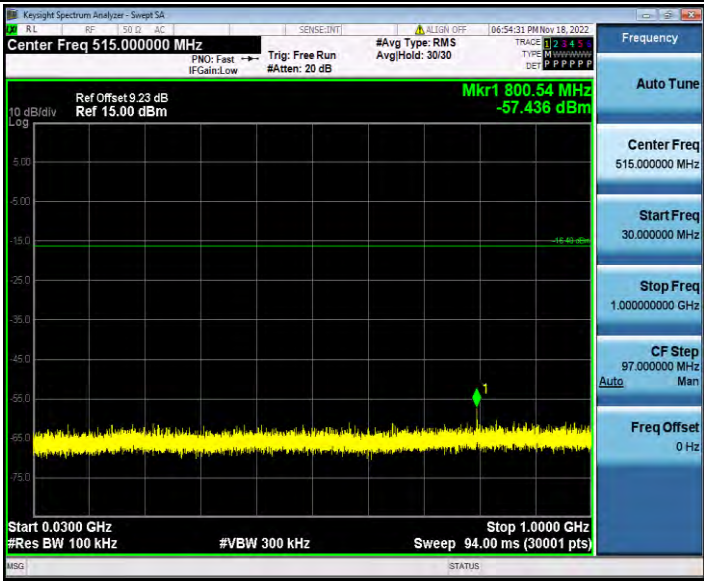
DH1_Ant1_2480_1000~26500



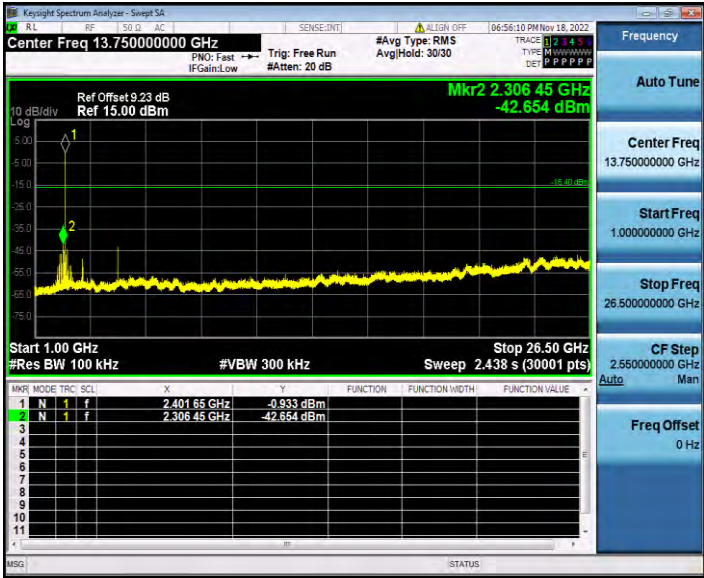
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



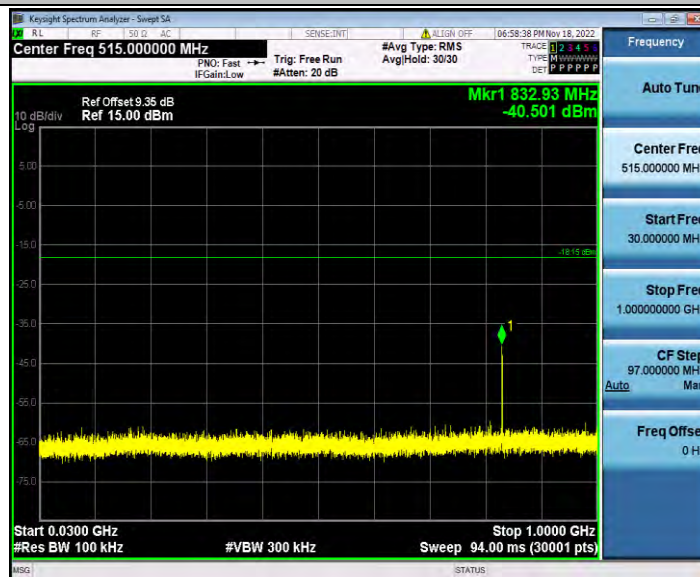
2DH1_Ant1_2402_1000~26500



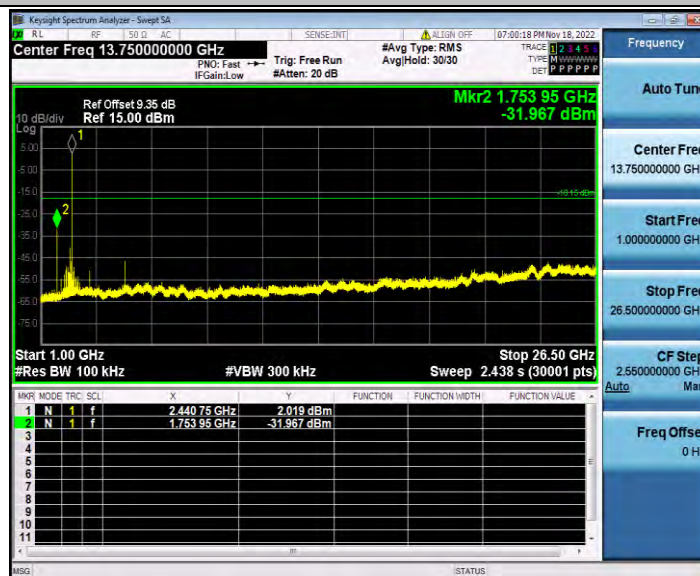
2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



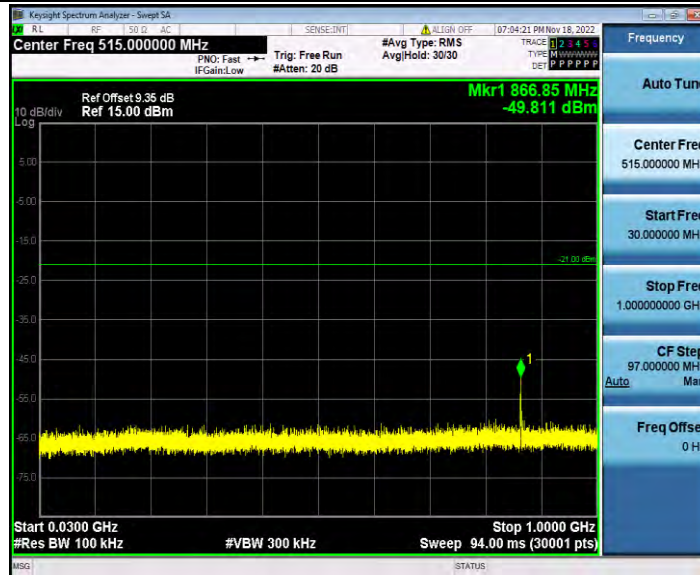
2DH1_Ant1_2441_1000~26500



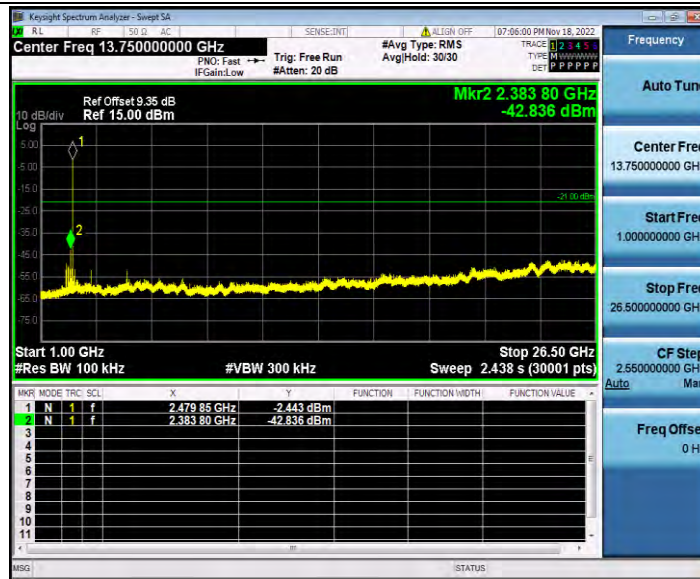
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



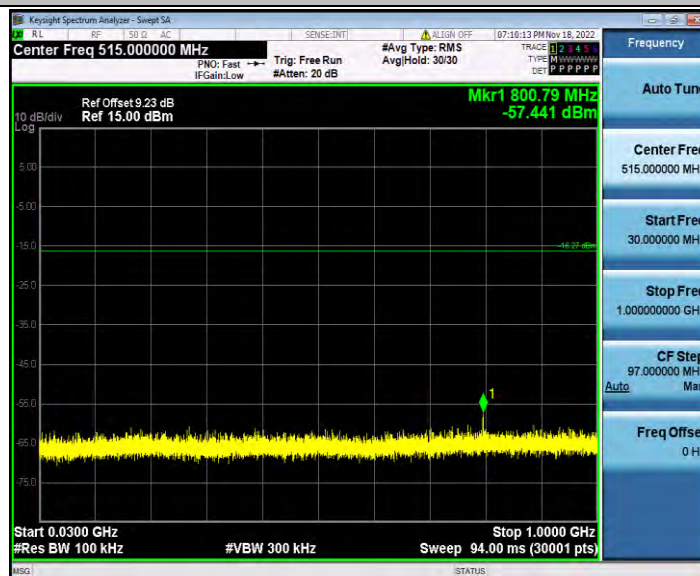
2DH1_Ant1_2480_1000~26500



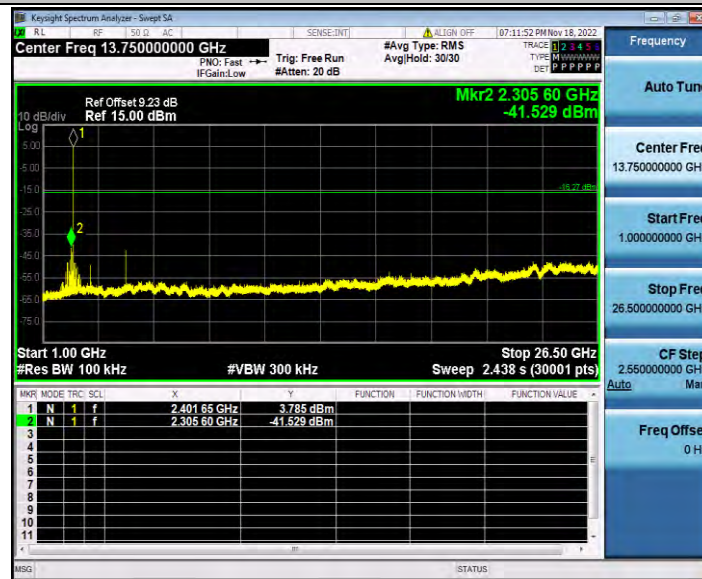
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



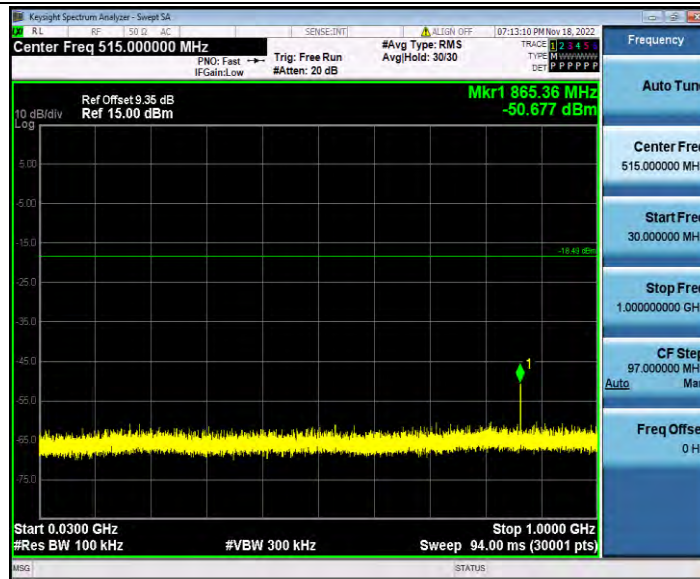
3DH1_Ant1_2402_1000~26500



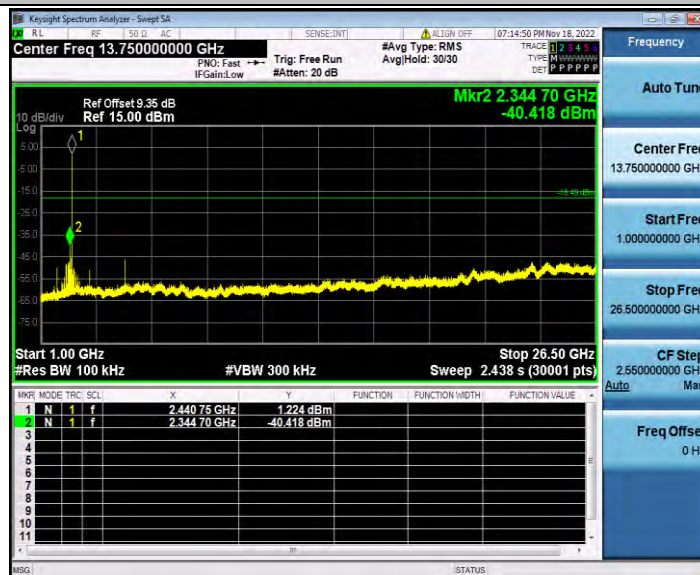
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



