

Case No. : GTS20220905013-1-7	
Ambient Condition: 24 °C, 46 %RH,	
Test Date: 2022.9.21	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	0.939	2401.541	2402.480	---	---
		2441	0.930	2440.544	2441.474	---	---
		2480	0.864	2479.574	2480.438	---	---
2DH1	Ant1	2402	1.287	2401.337	2402.624	---	---
		2441	1.308	2440.340	2441.648	---	---
		2480	1.329	2479.334	2480.663	---	---
3DH1	Ant1	2402	1.260	2401.385	2402.645	---	---
		2441	1.257	2440.385	2441.642	---	---
		2480	1.266	2479.370	2480.636	---	---

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	0.86939	2401.569	2402.438	---	---
		2441	0.85429	2440.580	2441.435	---	---
		2480	0.85401	2479.583	2480.437	---	---
2DH1	Ant1	2402	1.1848	2401.403	2402.588	---	---
		2441	1.1823	2440.404	2441.587	---	---
		2480	1.1852	2479.404	2480.589	---	---
3DH1	Ant1	2402	1.1688	2401.434	2402.603	---	---
		2441	1.1678	2440.433	2441.601	---	---
		2480	1.1661	2479.434	2480.600	---	---

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	8.94	≤20.97	PASS
		2441	9.57	≤20.97	PASS
		2480	9.64	≤20.97	PASS
2DH1	Ant1	2402	11.39	≤20.97	PASS
		2441	11.8	≤20.97	PASS
		2480	12.1	≤20.97	PASS
3DH1	Ant1	2402	12.04	≤20.97	PASS
		2441	12.46	≤20.97	PASS
		2480	12.61	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.83	≥ 0.626	PASS
		Hop_2441	1.166	≥ 0.626	PASS
		Hop_2480	1.152	≥ 0.626	PASS
2DH1	Ant1	Hop_2402	1.03	≥ 0.886	PASS
		Hop_2441	1.154	≥ 0.886	PASS
		Hop_2480	1.004	≥ 0.886	PASS
3DH1	Ant1	Hop_2402	0.994	≥ 0.844	PASS
		Hop_2441	0.99	≥ 0.844	PASS
		Hop_2480	0.666	≥ 0.844	FAIL

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



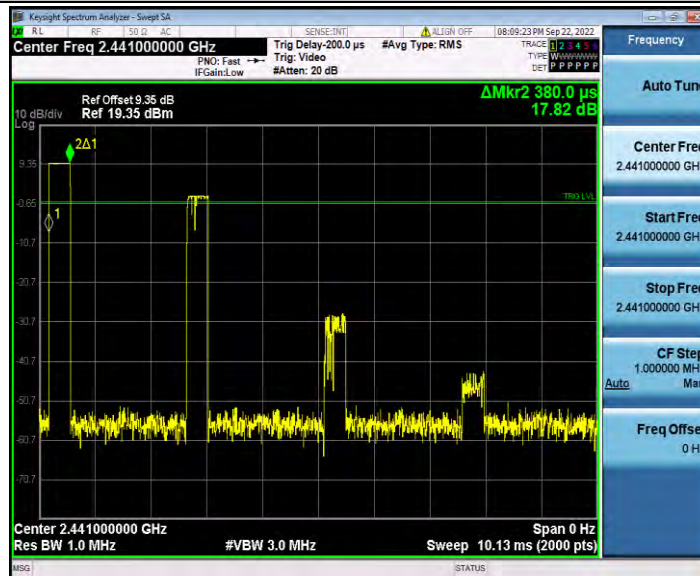
Appendix A.5: Time of occupancy

Test Result

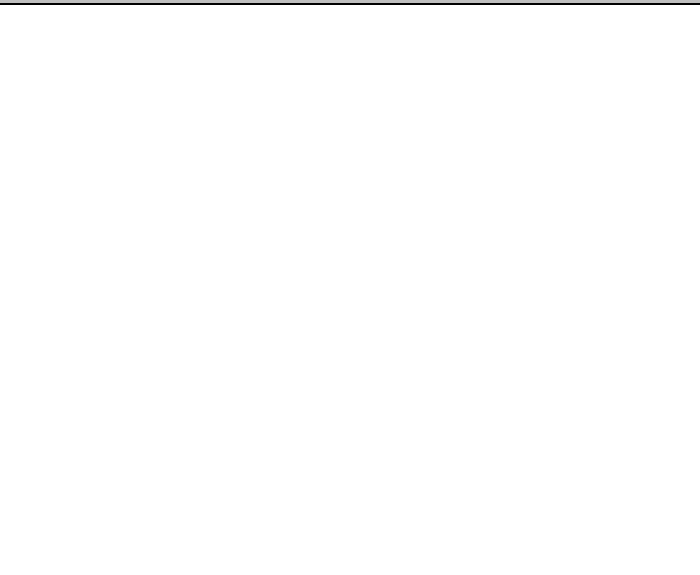
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.64	170	0.278	≤0.4	PASS
DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
2DH1	Ant1	Hop	0.39	330	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.64	170	0.279	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.39	330	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.64	170	0.278	≤0.4	PASS
3DH5	Ant1	Hop	2.89	110	0.317	≤0.4	PASS

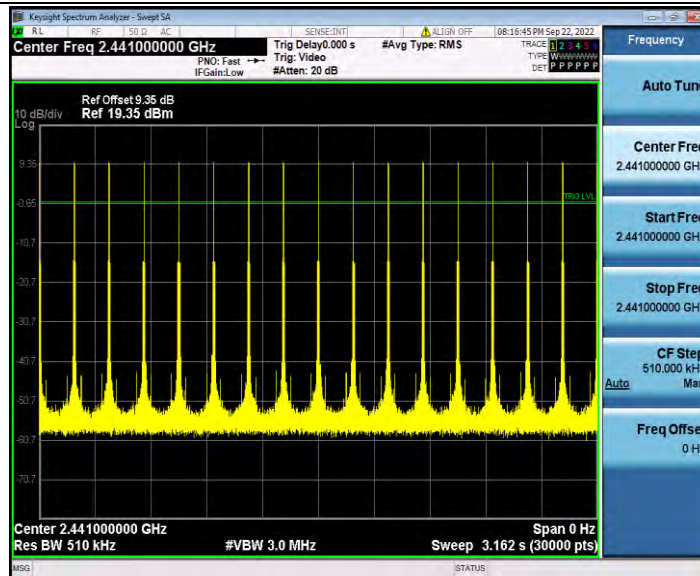
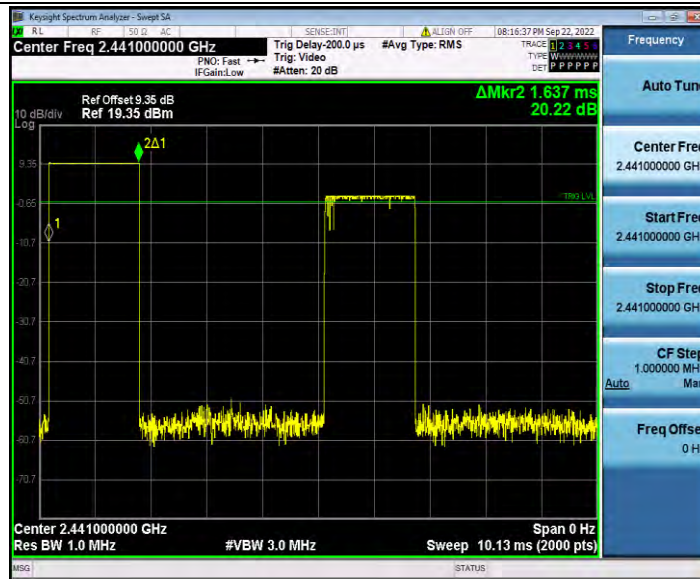
Test Graphs

DH1_Ant1_Hop

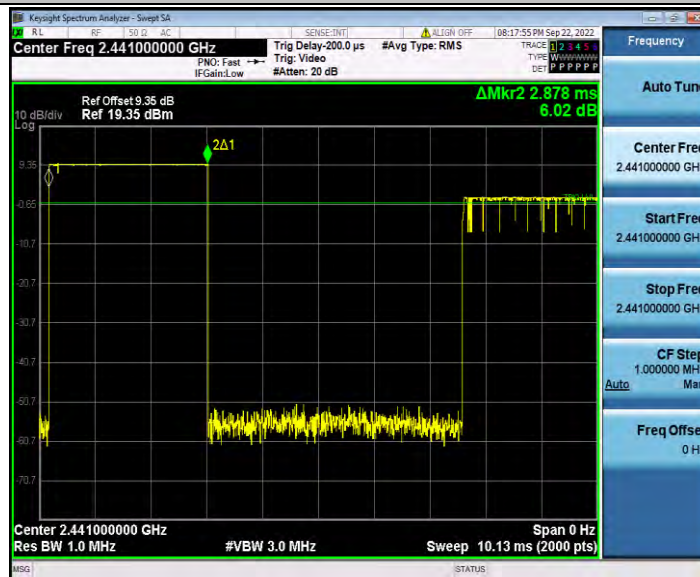


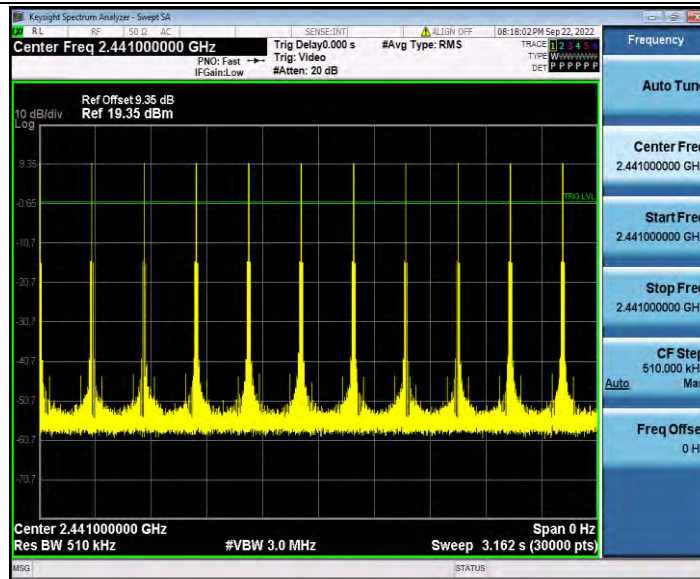
DH3_Ant1_Hop



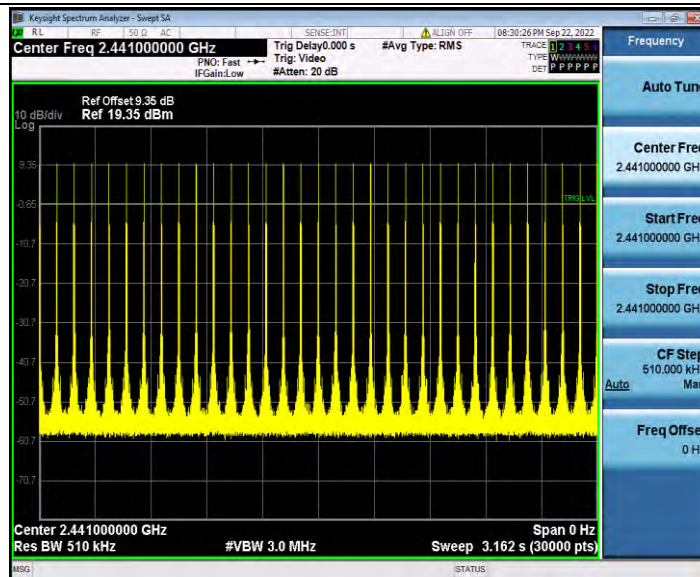
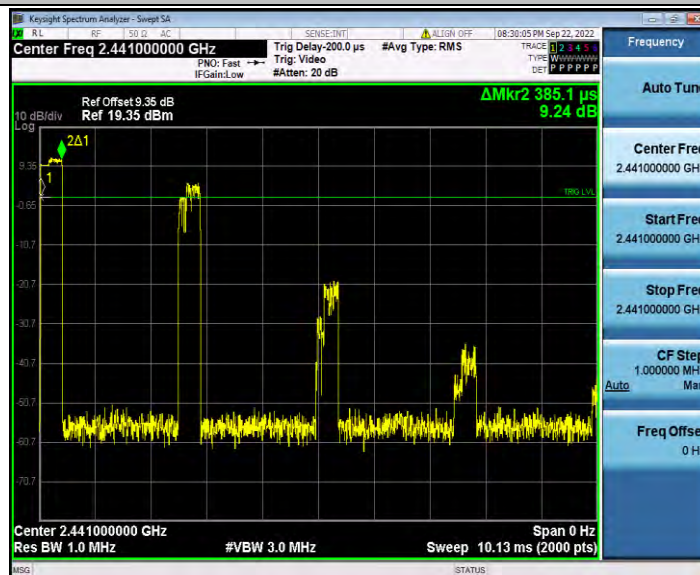


DH5_Ant1_Hop

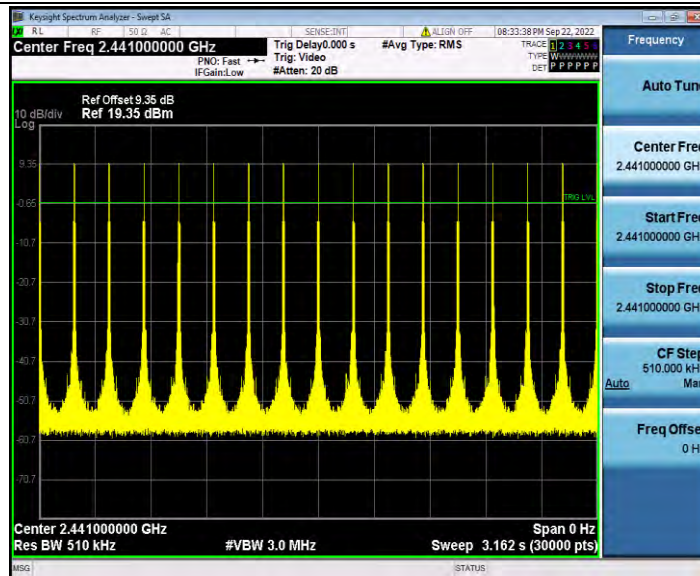
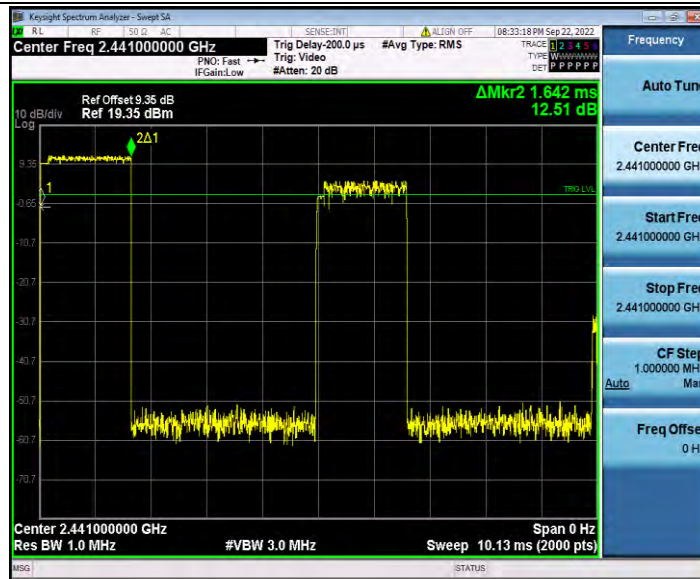




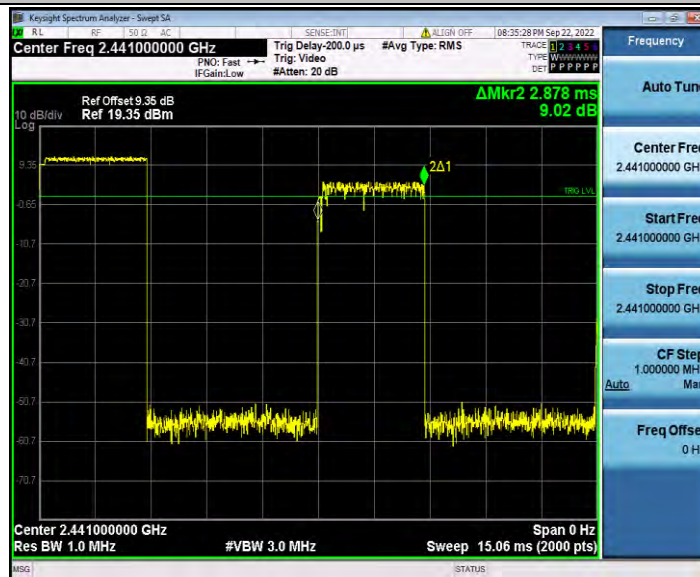
2DH1_Ant1_Hop

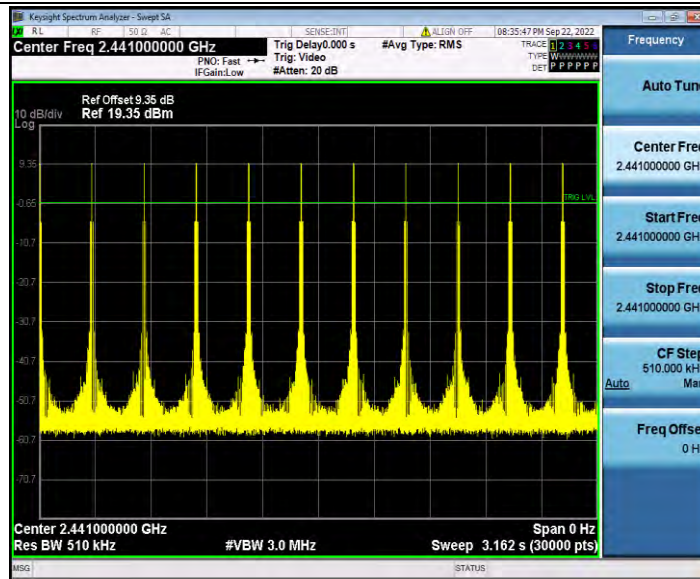


2DH3_Ant1_Hop

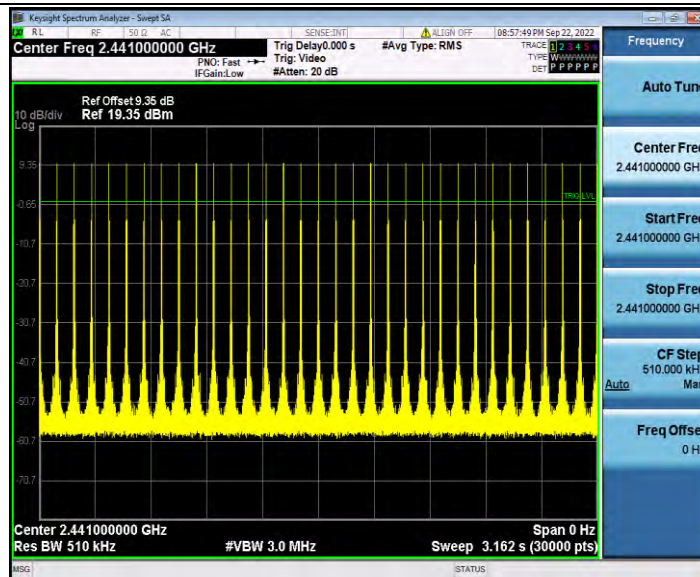
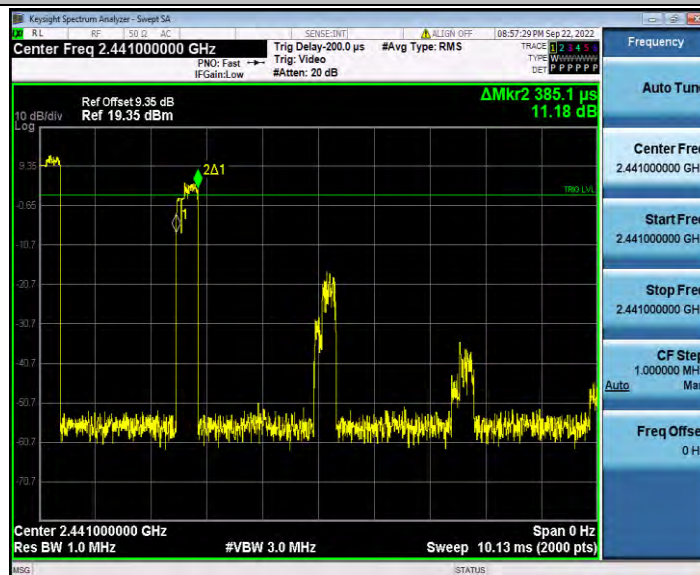


2DH5_Ant1_Hop

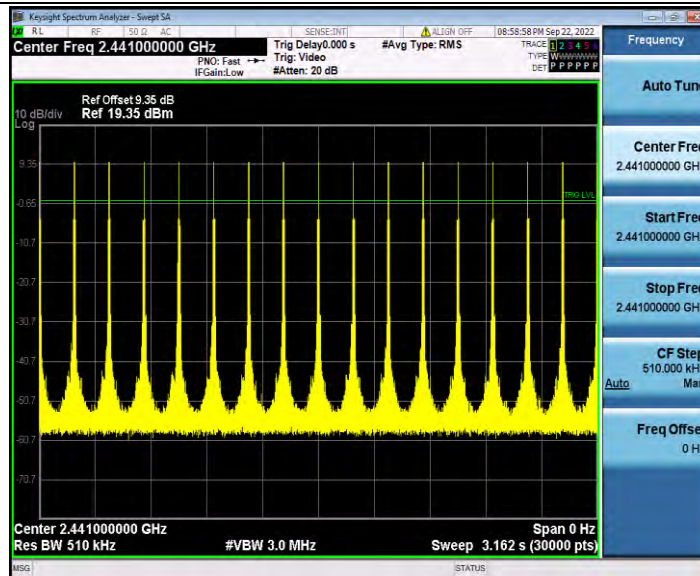
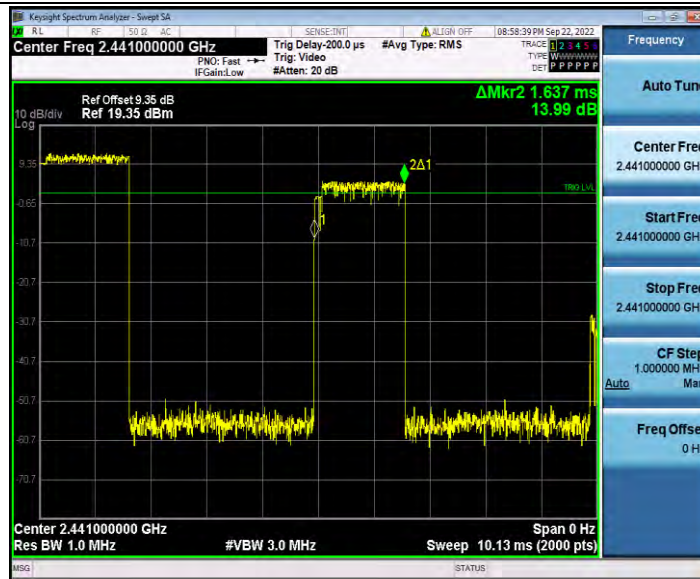




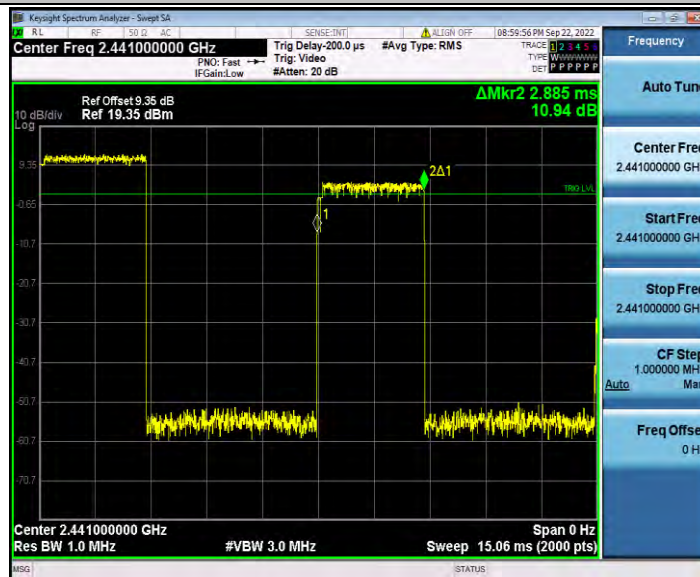
3DH1_Ant1_Hop

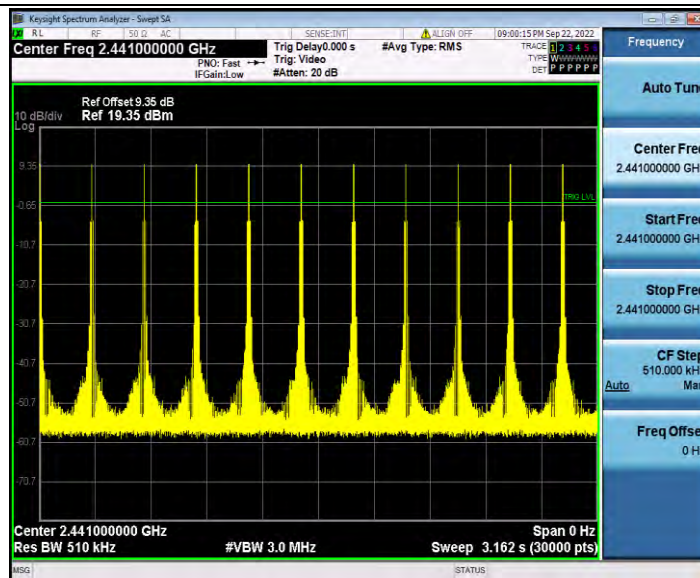


3DH3_Ant1_Hop



3DH5_Ant1_Hop





Appendix A.6: Number of hopping channels

Test Result

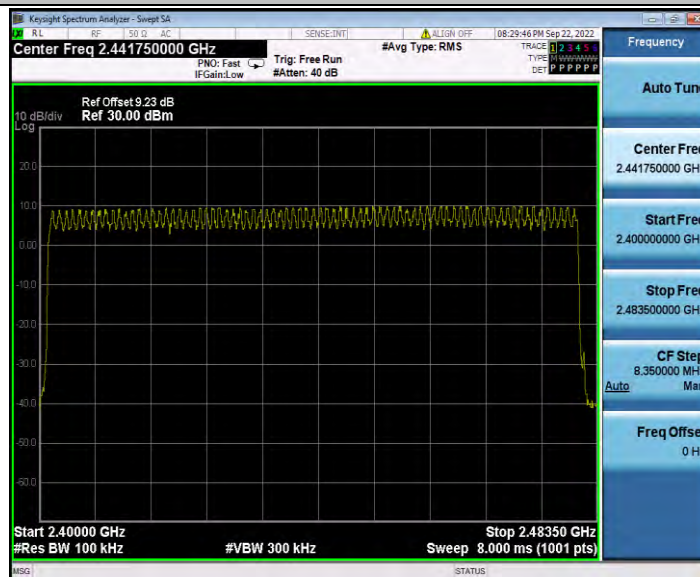
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

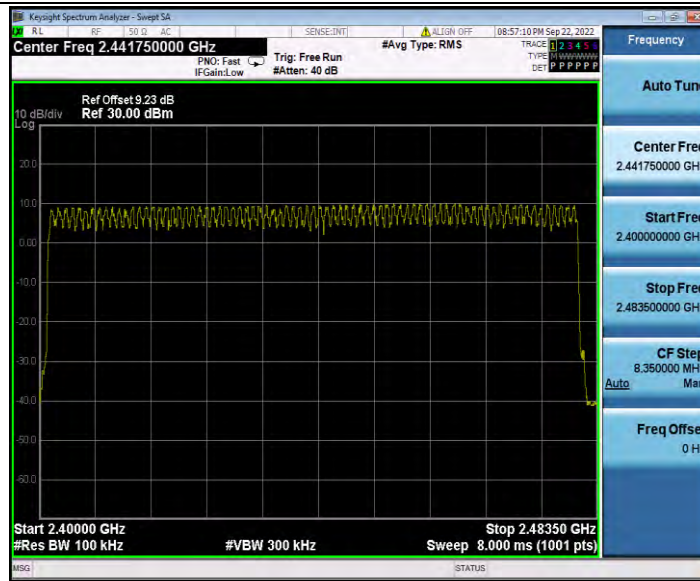
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



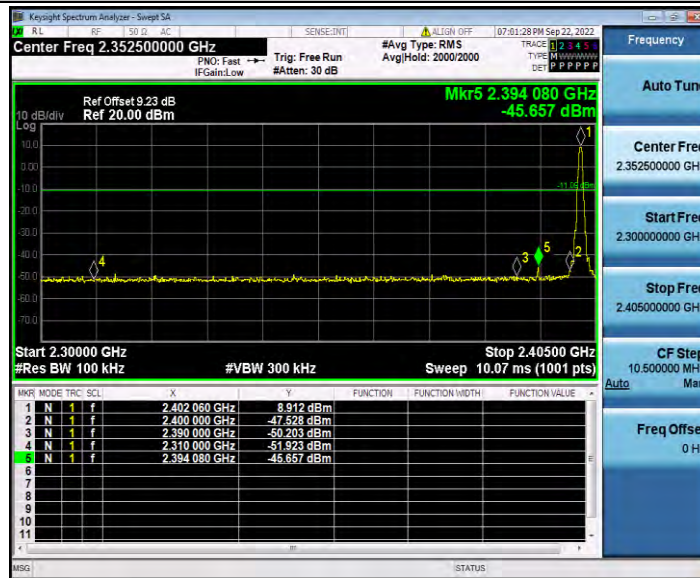
Appendix A.7: Band edge measurements

Test Result

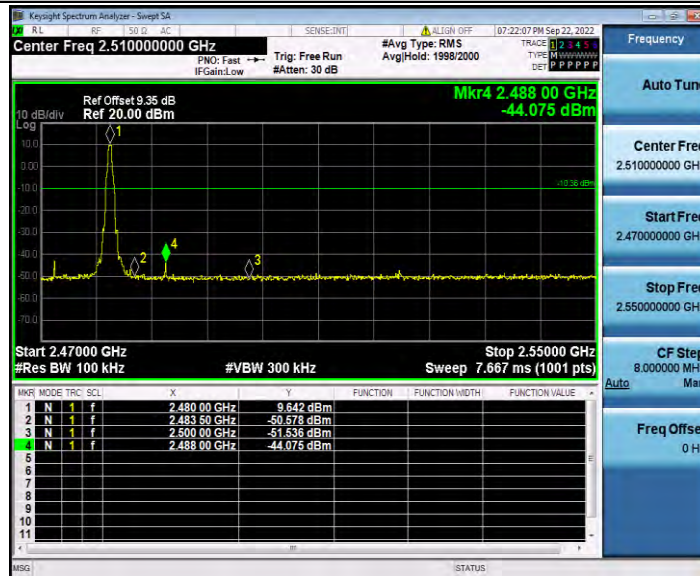
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.91	-45.66	≤-11.09	PASS
		High	2480	9.64	-44.08	≤-10.36	PASS
		Low	Hop_2402	8.92	-49.52	≤-11.08	PASS
		High	Hop_2480	9.95	-48.18	≤-10.05	PASS
2DH1	Ant1	Low	2402	8.92	-43.52	≤-11.08	PASS
		High	2480	9.92	-43.8	≤-10.08	PASS
		Low	Hop_2402	8.53	-48.83	≤-11.47	PASS
		High	Hop_2480	9.96	-48.73	≤-10.04	PASS
3DH1	Ant1	Low	2402	8.92	-41.04	≤-11.08	PASS
		High	2480	9.79	-45.54	≤-10.21	PASS
		Low	Hop_2402	8.77	-49.21	≤-11.23	PASS
		High	Hop_2480	9.86	-48.77	≤-10.14	PASS

Test Graphs

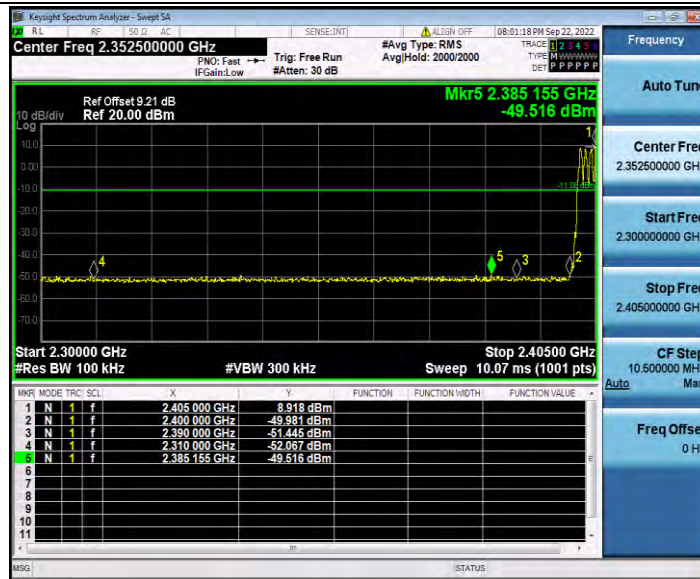
DH1_Ant1_Low_2402



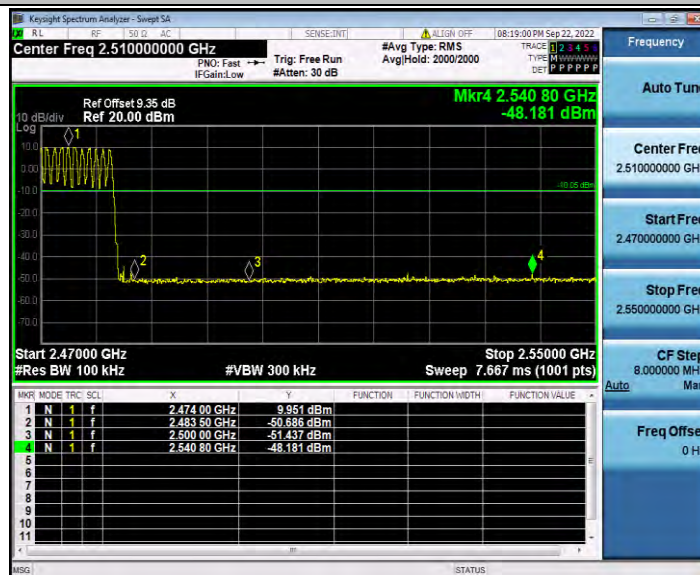
DH1_Ant1_High_2480



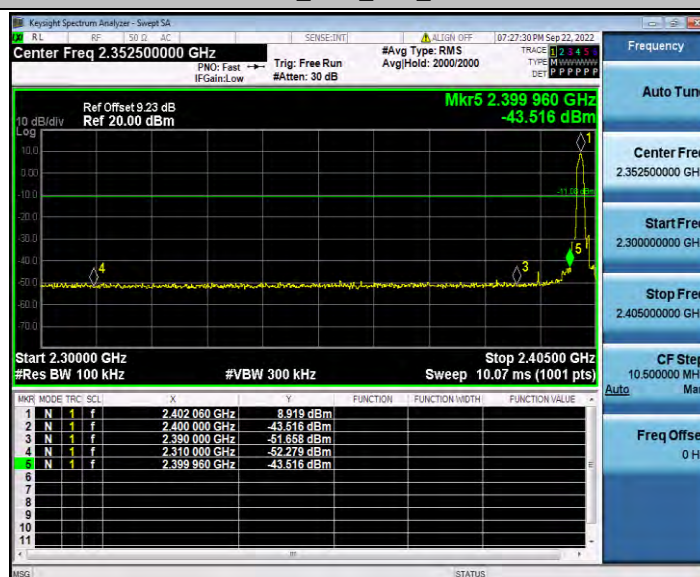
DH1_Ant1_Low_Hop_2402



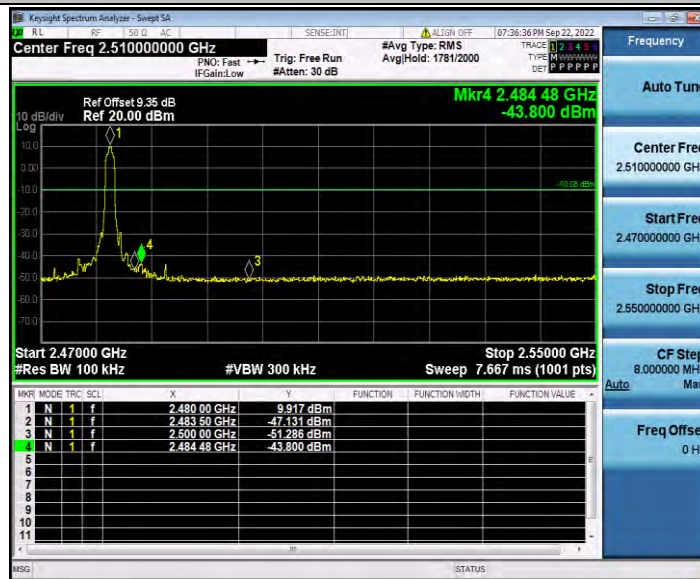
DH1_Ant1_High_Hop_2480



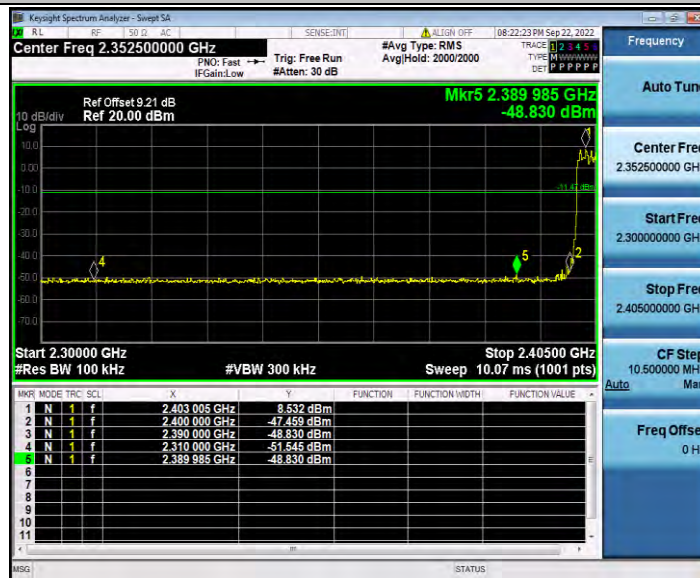
2DH1_Ant1_Low_2402



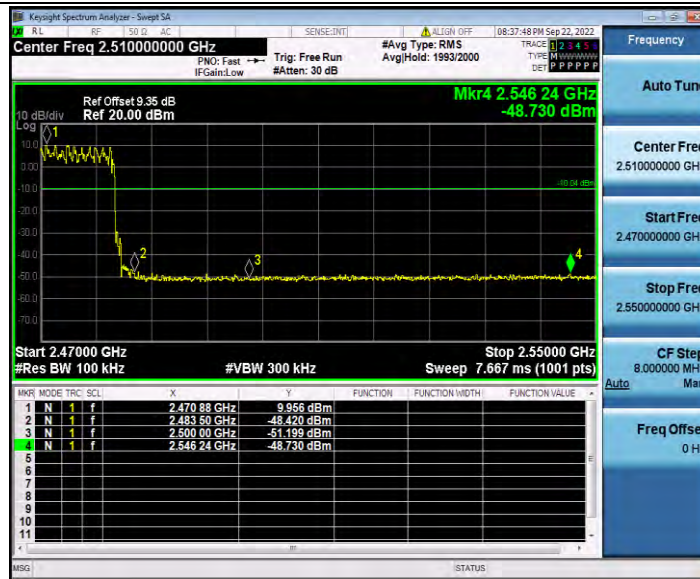
2DH1_Ant1_High_2480



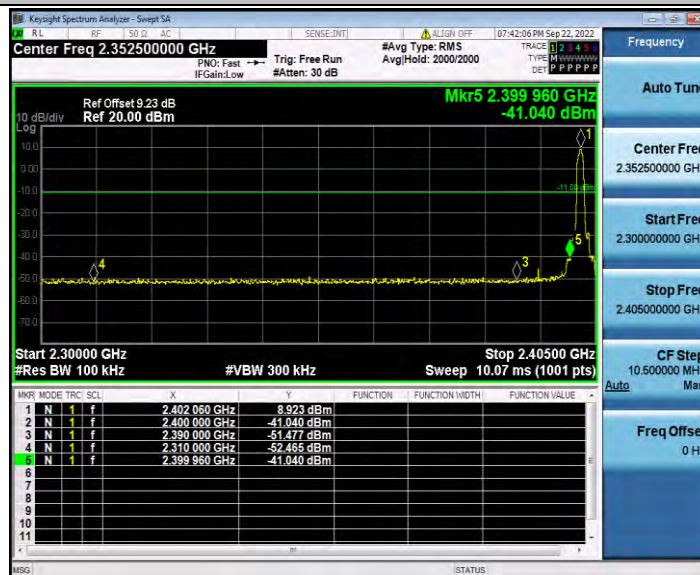
2DH1_Ant1_Low_Hop_2402



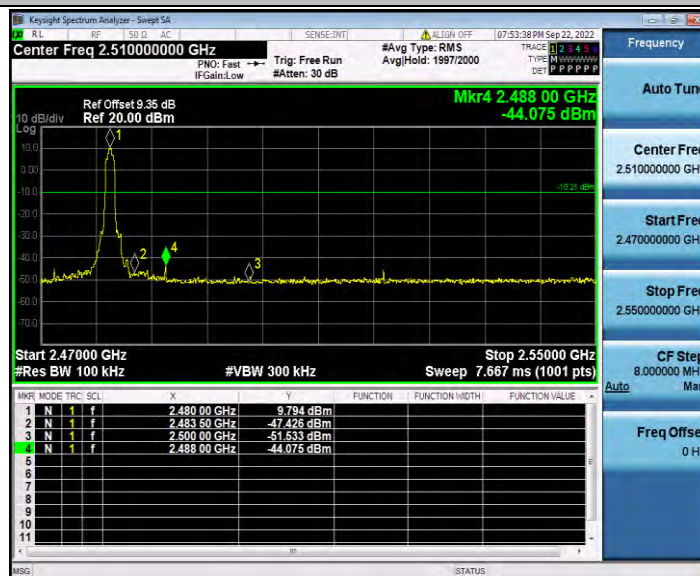
2DH1_Ant1_High_Hop_2480



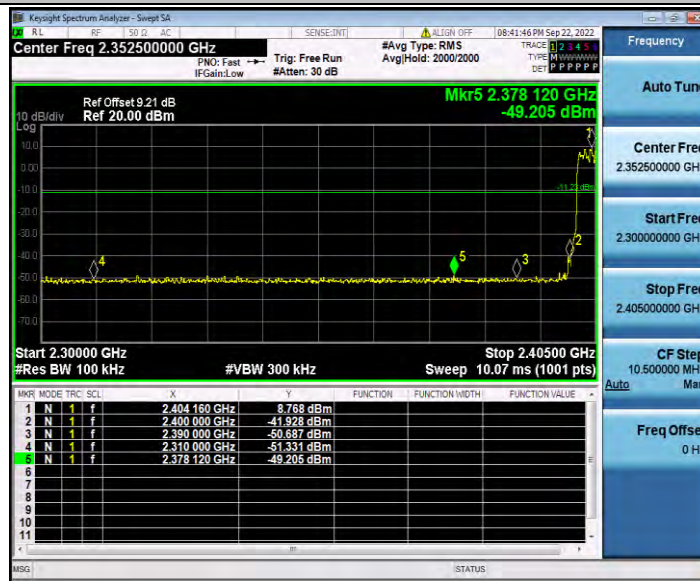
3DH1_Ant1_Low_2402



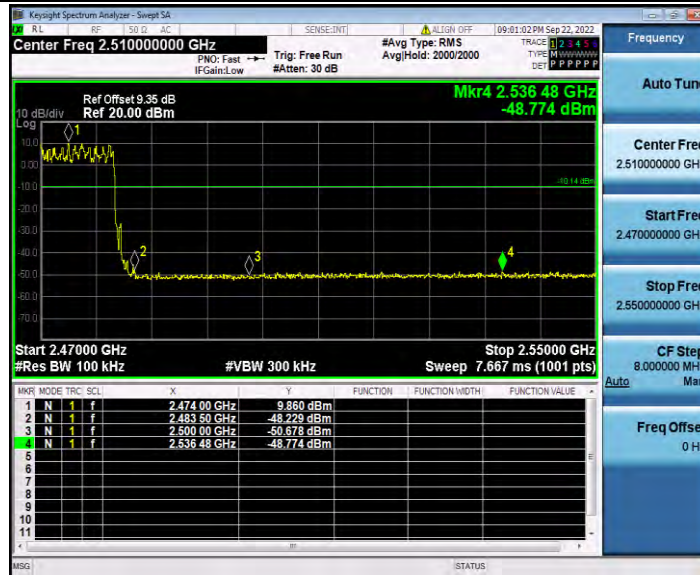
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

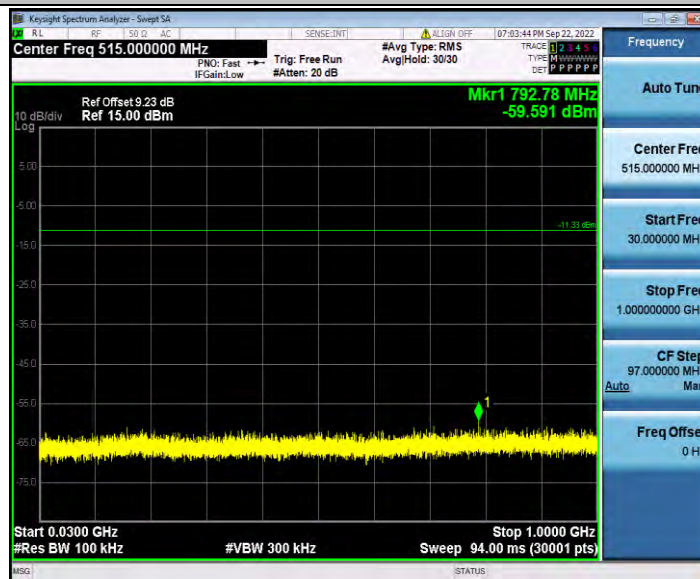
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	8.67	8.67	---	PASS
			30~1000	8.67	-59.59	≤-11.33	PASS
			1000~26500	8.67	-44.15	≤-11.33	PASS
		2441	Reference	9.44	9.44	---	PASS
			30~1000	9.44	-60.42	≤-10.56	PASS
			1000~26500	9.44	-45.51	≤-10.56	PASS
		2480	Reference	8.77	8.77	---	PASS
			30~1000	8.77	-59.73	≤-11.23	PASS
			1000~26500	8.77	-44.89	≤-11.23	PASS
2DH1	Ant1	2402	Reference	8.57	8.57	---	PASS
			30~1000	8.57	-60.07	≤-11.43	PASS
			1000~26500	8.57	-47.29	≤-11.43	PASS
		2441	Reference	9.30	9.30	---	PASS
			30~1000	9.30	-59.77	≤-10.7	PASS
			1000~26500	9.30	-42.84	≤-10.7	PASS
		2480	Reference	9.65	9.65	---	PASS
			30~1000	9.65	-60.7	≤-10.35	PASS
			1000~26500	9.65	-47.13	≤-10.35	PASS
3DH1	Ant1	2402	Reference	8.67	8.67	---	PASS
			30~1000	8.67	-60.34	≤-11.33	PASS
			1000~26500	8.67	-43.39	≤-11.33	PASS
		2441	Reference	9.43	9.43	---	PASS
			30~1000	9.43	-60.8	≤-10.57	PASS
			1000~26500	9.43	-43.43	≤-10.57	PASS
		2480	Reference	9.53	9.53	---	PASS
			30~1000	9.53	-60.01	≤-10.47	PASS
			1000~26500	9.53	-45.37	≤-10.47	PASS

Test Graphs

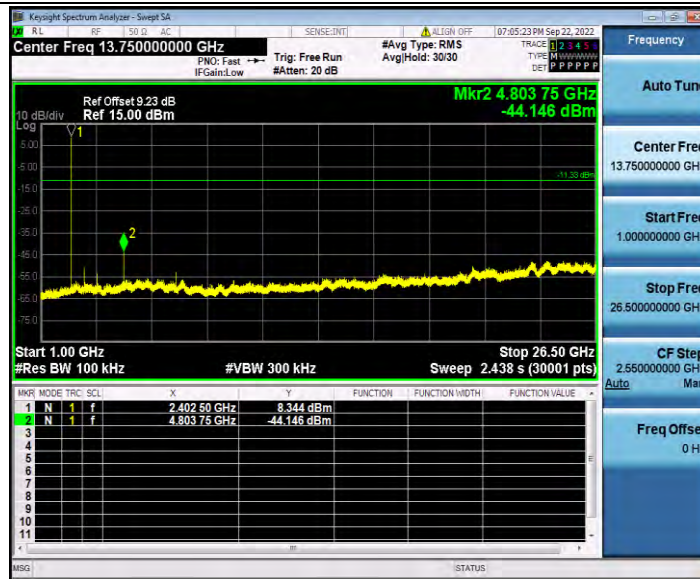
DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



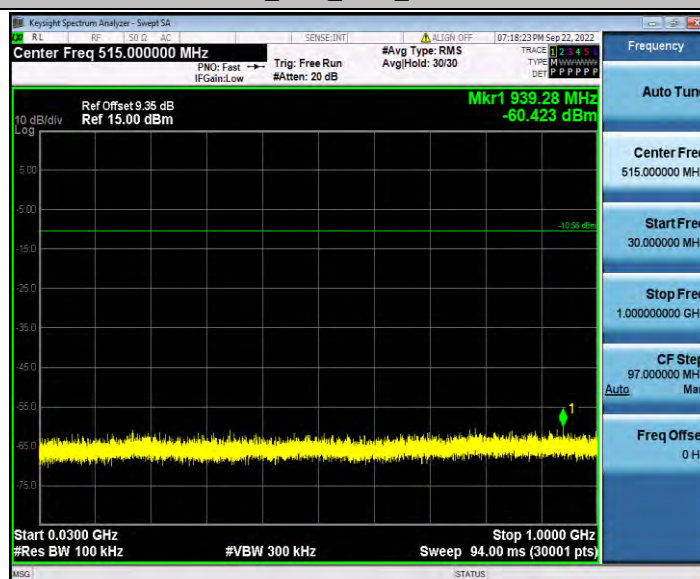
DH1_Ant1_2402_1000~26500



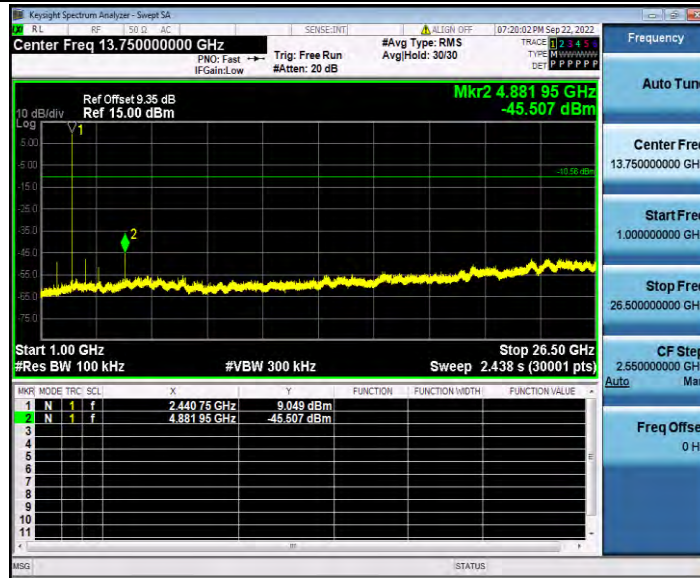
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



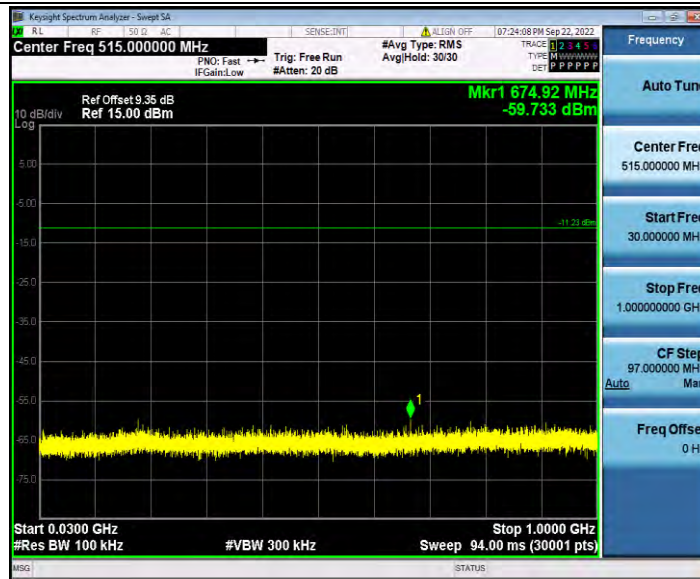
DH1_Ant1_2441_1000~26500



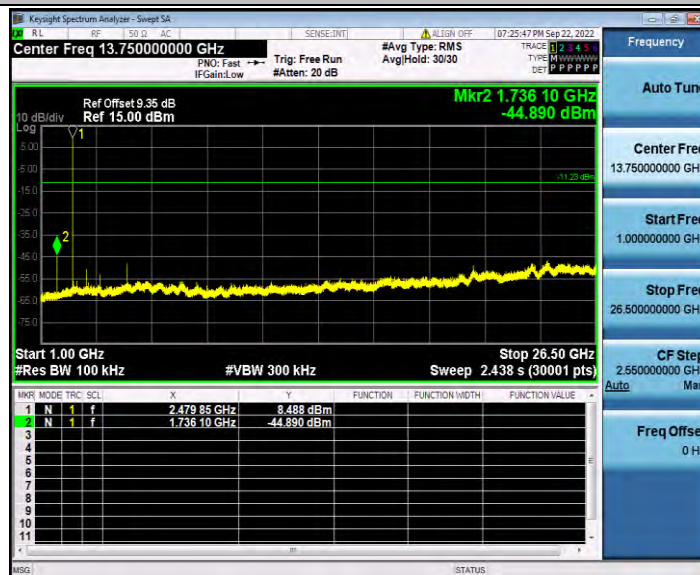
DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



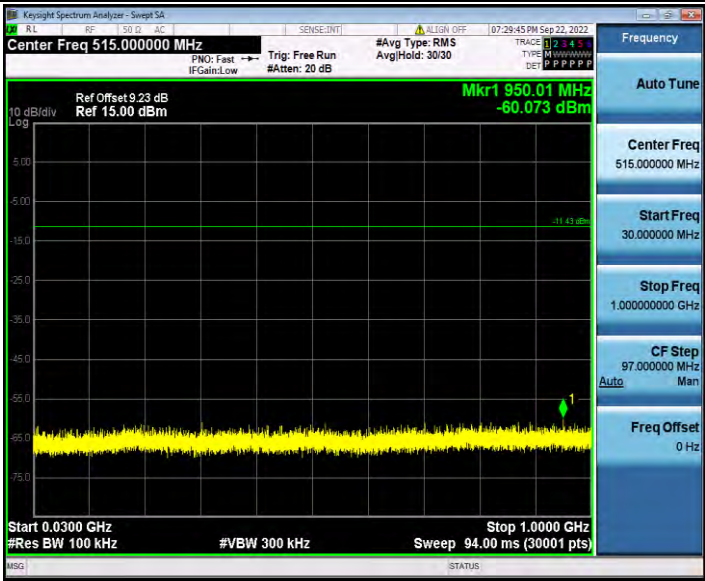
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



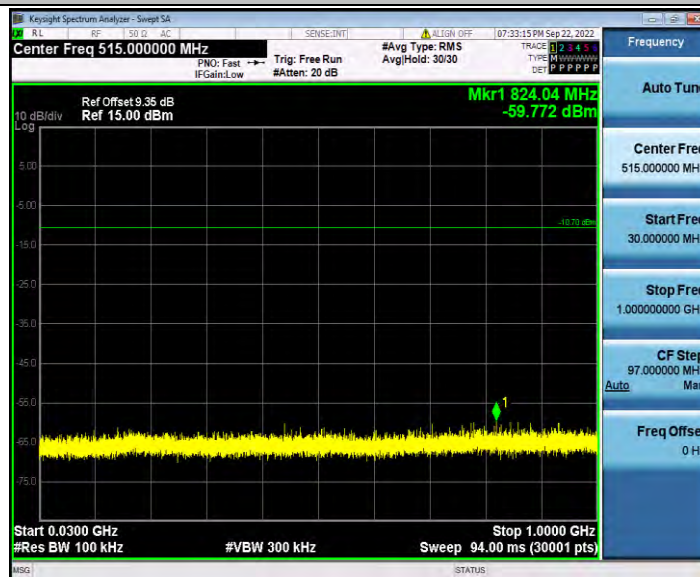
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



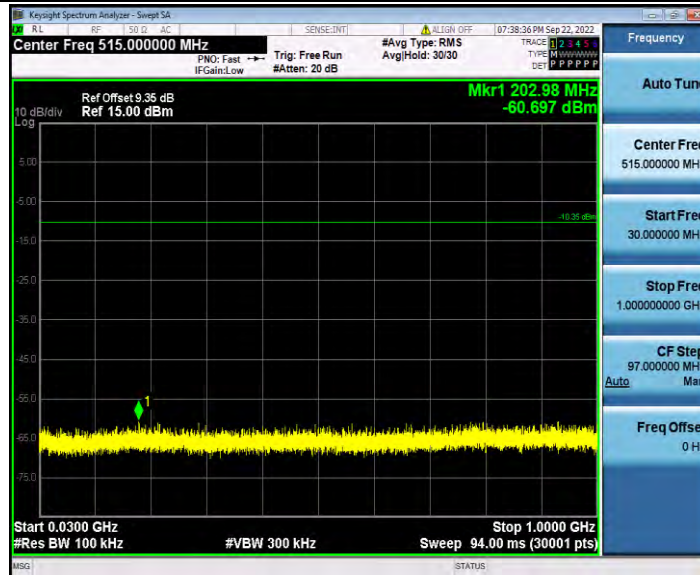
2DH1_Ant1_2441_1000~26500



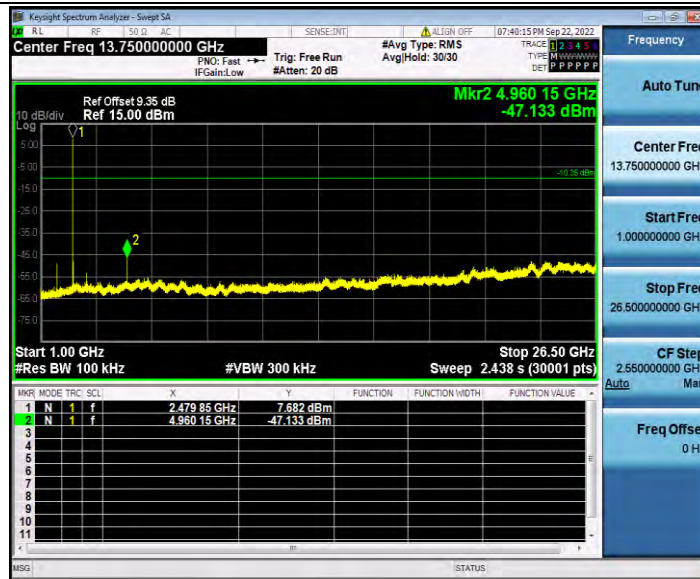
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



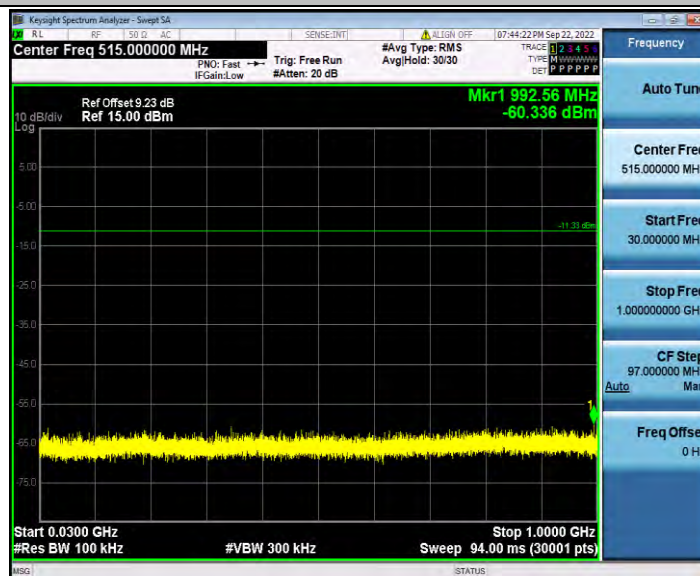
2DH1_Ant1_2480_1000~26500



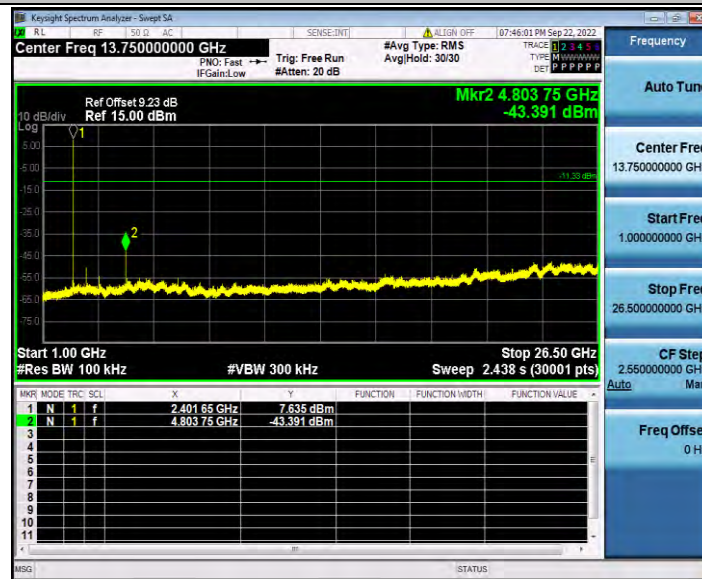
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



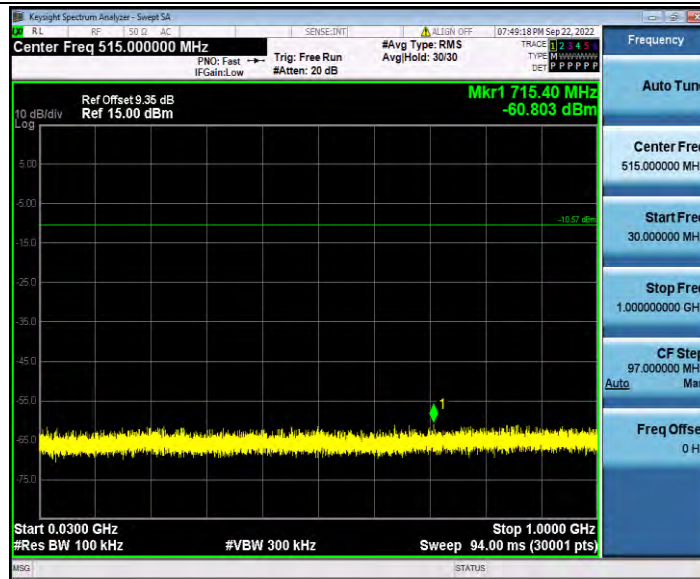
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



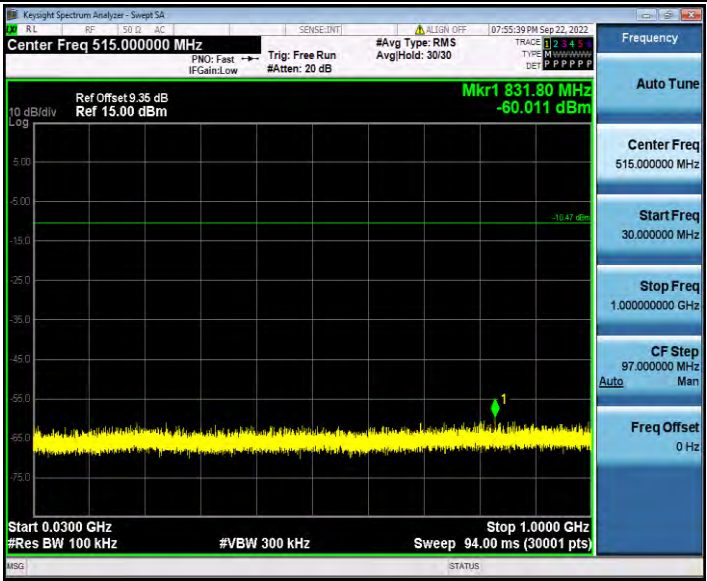
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

