

Case No. : _GTS20220723004-1-33	
Ambient Condition: <u>25</u> °C, <u>47</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2022.8.25</u>	Test Engineer: <u>Jenny zeng</u>

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	1.038	2401.502	2402.540	---	---
		2441	1.029	2440.514	2441.543	---	---
		2480	1.044	2479.493	2480.537	---	---
2DH1	Ant1	2402	1.293	2401.364	2402.657	---	---
		2441	1.341	2440.337	2441.678	---	---
		2480	1.320	2479.346	2480.666	---	---
3DH1	Ant1	2402	1.326	2401.361	2402.687	---	---
		2441	1.299	2440.370	2441.669	---	---
		2480	1.299	2479.367	2480.666	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



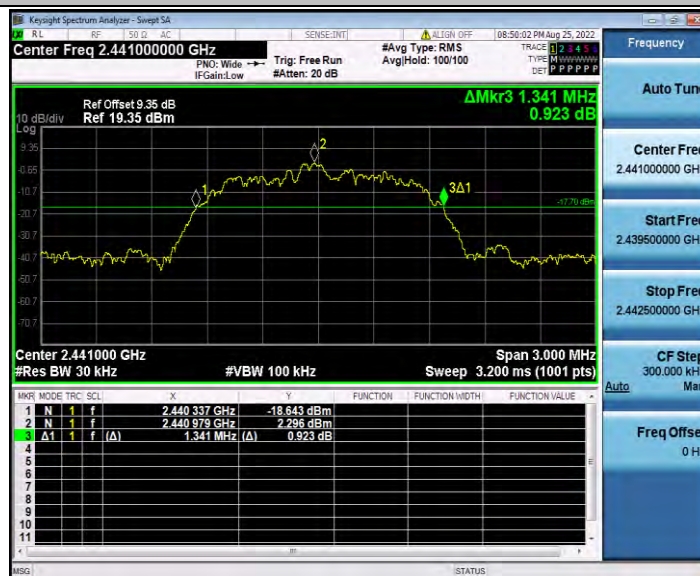
DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.93046	2401.553	2402.484	---	---
		2441	0.93712	2440.544	2441.481	---	---
		2480	0.91915	2479.543	2480.462	---	---
2DH1	Ant1	2402	1.1885	2401.410	2402.598	---	---
		2441	1.1969	2440.400	2441.597	---	---
		2480	1.1873	2479.395	2480.582	---	---
3DH1	Ant1	2402	1.1755	2401.440	2402.615	---	---
		2441	1.1752	2440.433	2441.608	---	---
		2480	1.1746	2479.425	2480.600	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



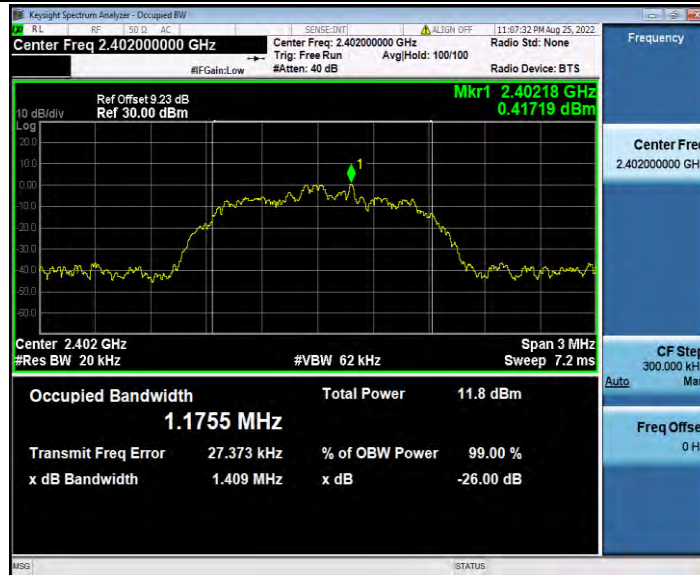
2DH1_Ant1_2441



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	8.24	≤ 20.97	PASS
		2441	9.27	≤ 20.97	PASS
		2480	8.1	≤ 20.97	PASS
2DH1	Ant1	2402	7.03	≤ 20.97	PASS
		2441	10.07	≤ 20.97	PASS
		2480	6.57	≤ 20.97	PASS
3DH1	Ant1	2402	7.54	≤ 20.97	PASS
		2441	7.99	≤ 20.97	PASS
		2480	6.95	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.988	≥ 0.696	PASS
		Hop_2441	1.004	≥ 0.696	PASS
		Hop_2480	0.978	≥ 0.696	PASS
2DH1	Ant1	Hop_2402	1.000	≥ 0.894	PASS
		Hop_2441	1.000	≥ 0.894	PASS
		Hop_2480	1.020	≥ 0.894	PASS
3DH1	Ant1	Hop_2402	1.004	≥ 0.884	PASS
		Hop_2441	1.004	≥ 0.884	PASS
		Hop_2480	1.002	≥ 0.884	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



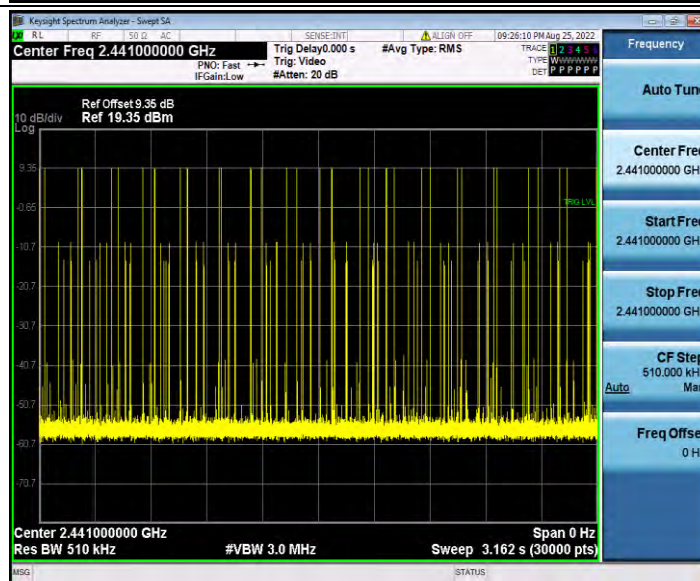
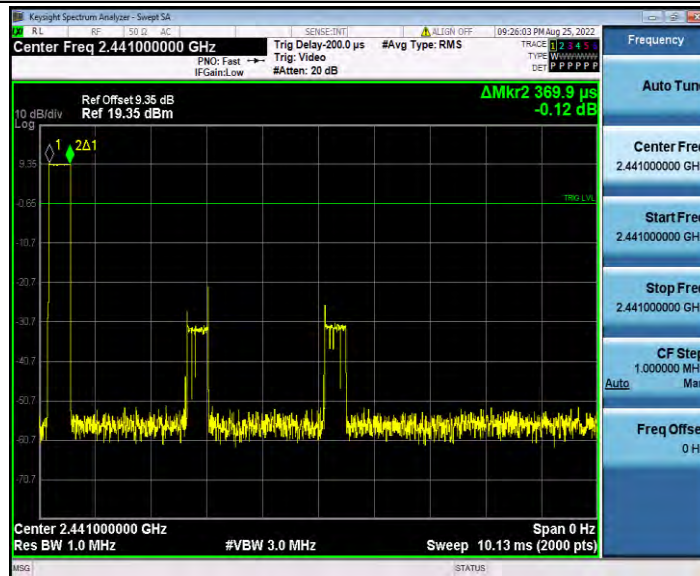
Appendix A.5: Time of occupancy

Test Result

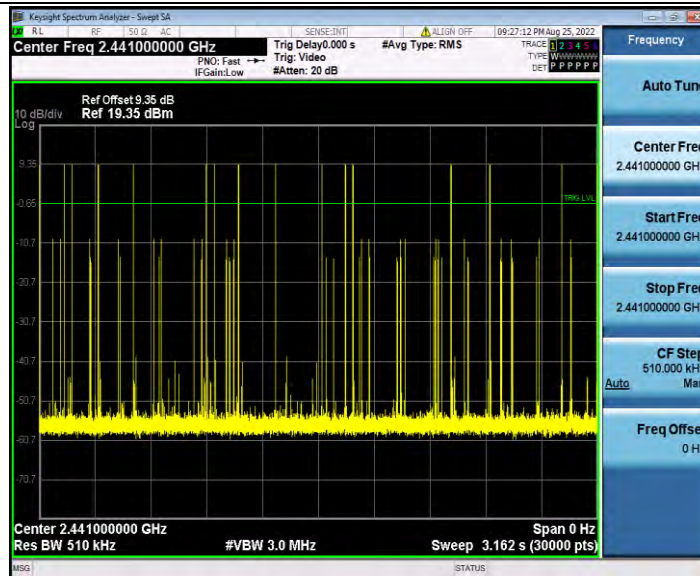
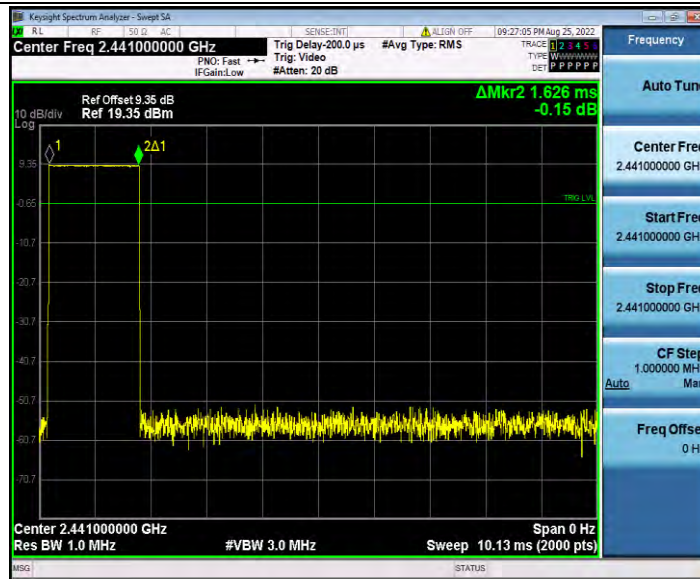
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.260	≤0.4	PASS
DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.260	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.37	320	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.62	170	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.86	110	0.315	≤0.4	PASS

Test Graphs

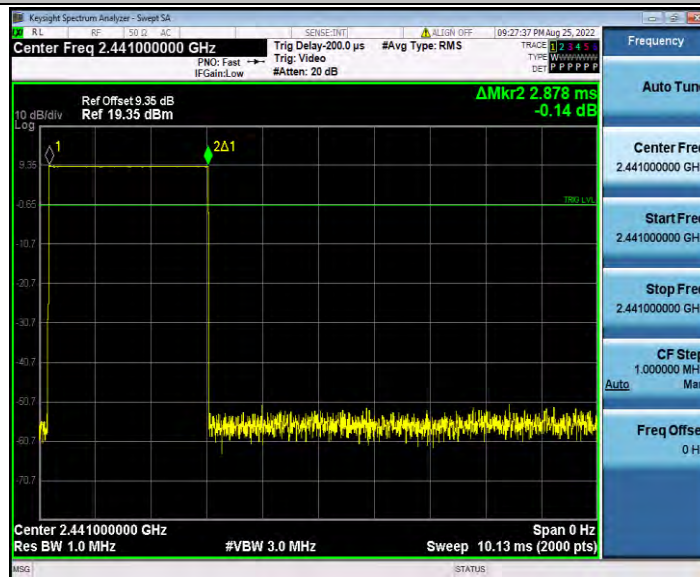
DH1_Ant1_Hop

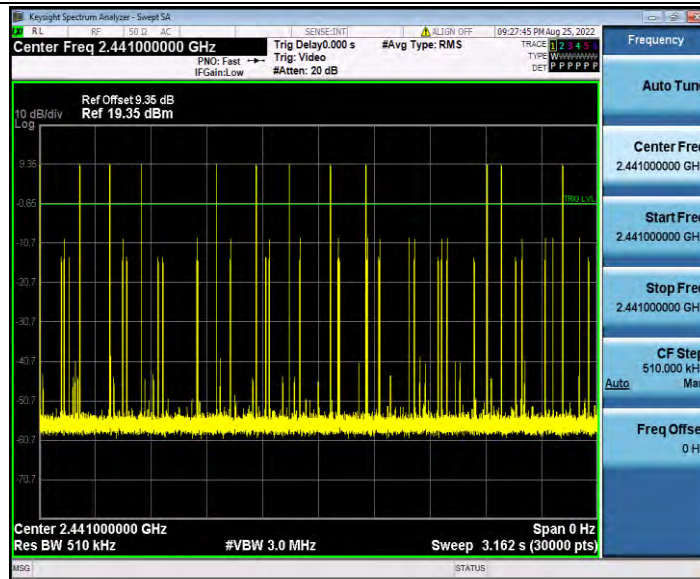


DH3_Ant1_Hop

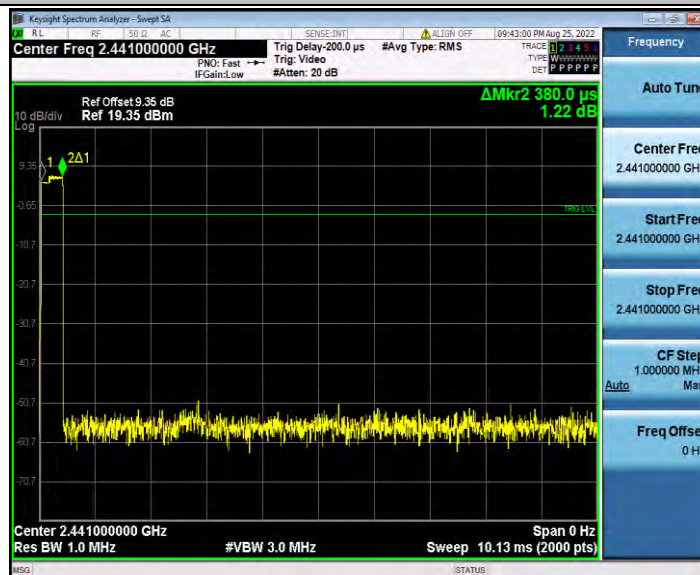


DH5_Ant1_Hop

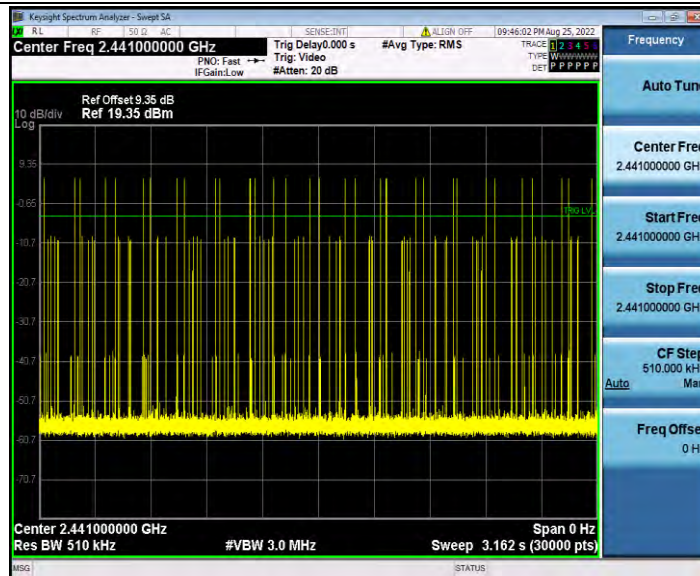
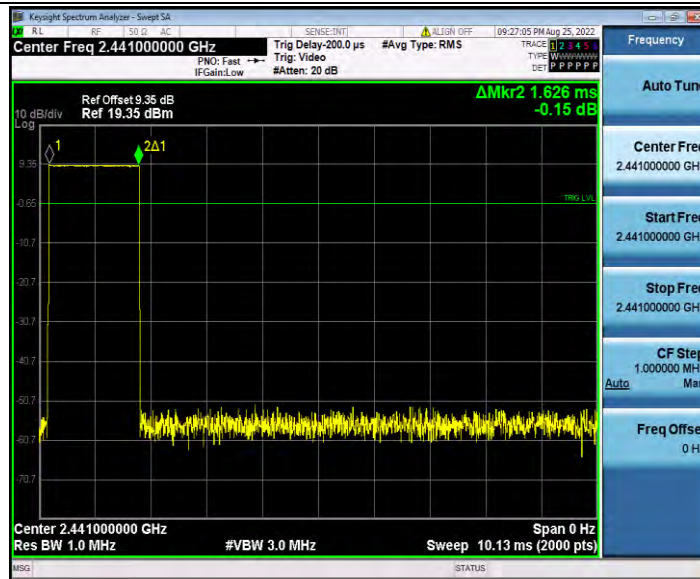




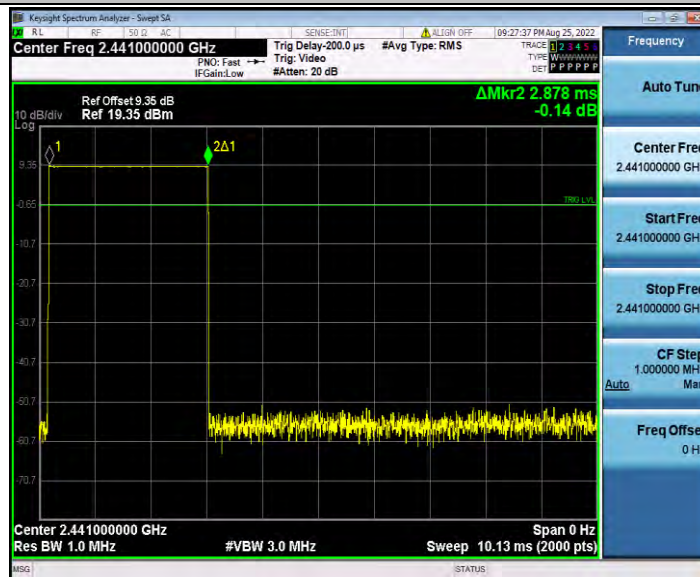
2DH1_Ant1_Hop

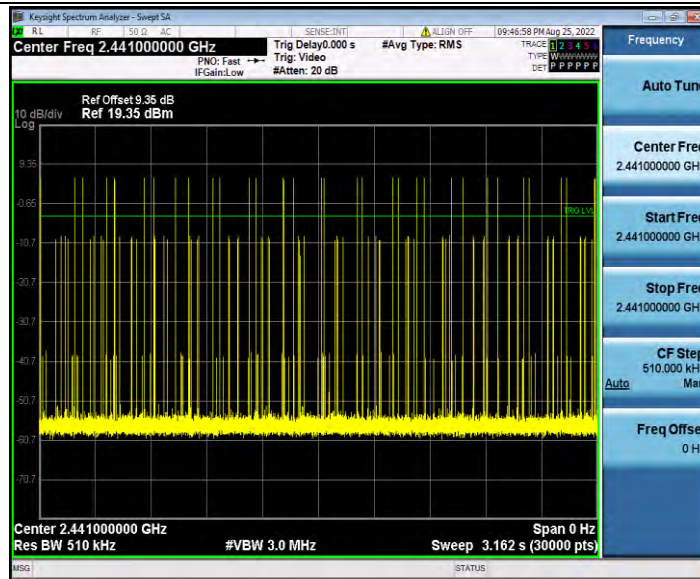


2DH3_Ant1_Hop

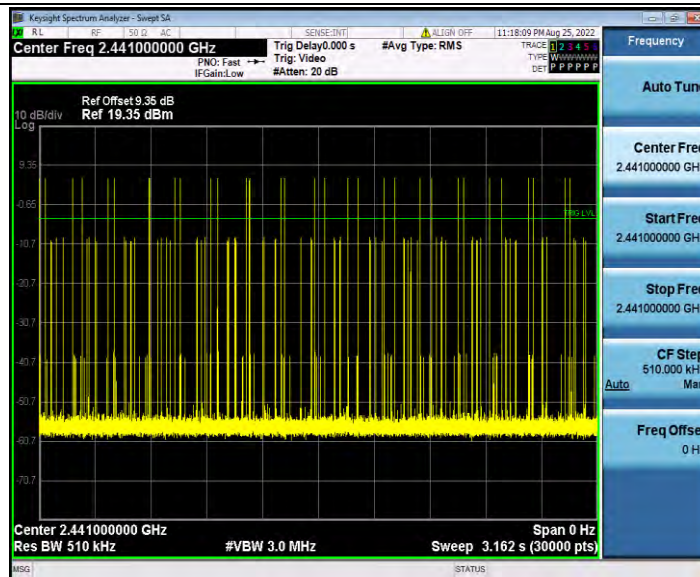
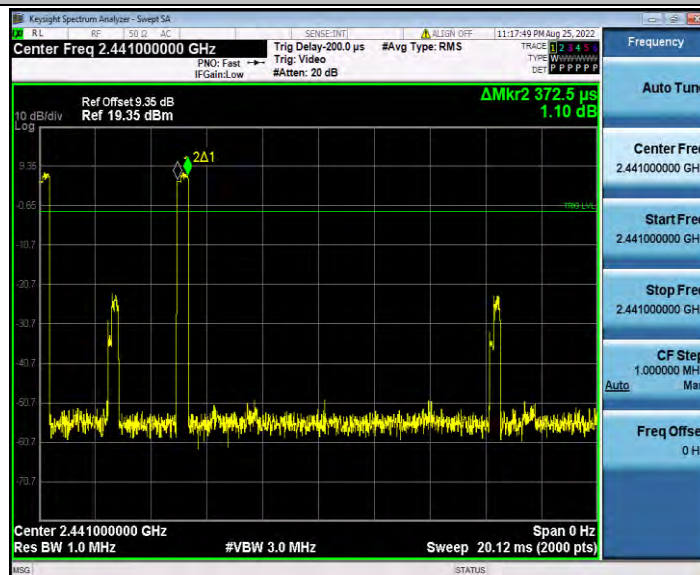


2DH5_Ant1_Hop

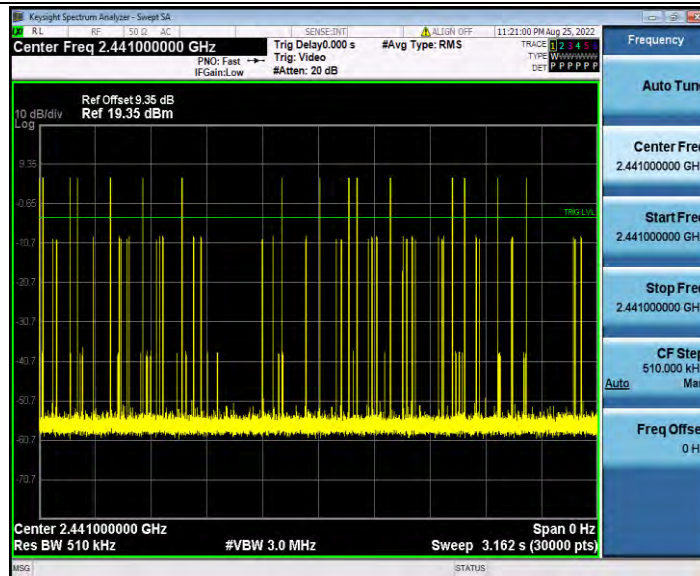
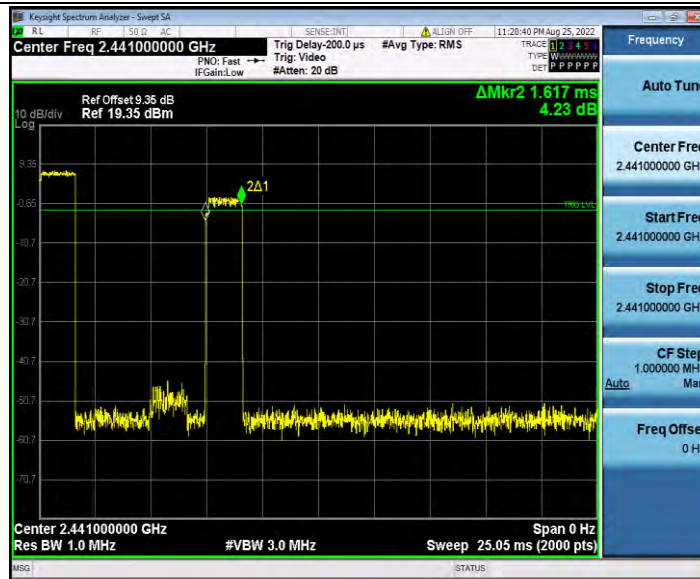




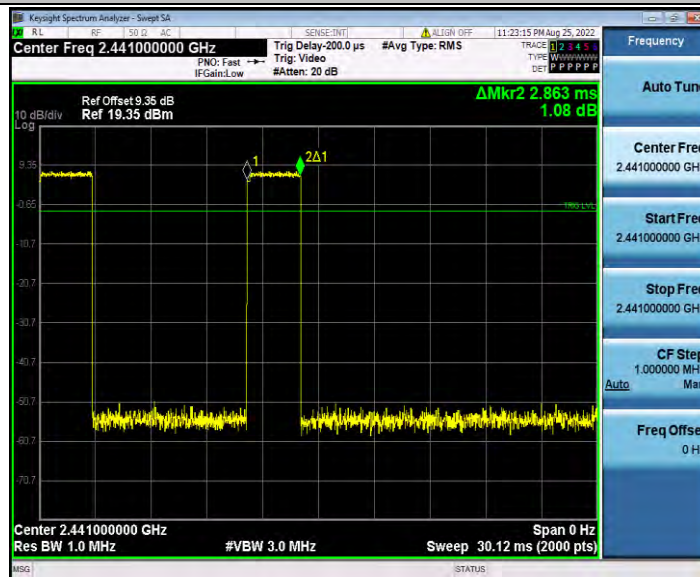
3DH1_Ant1_Hop

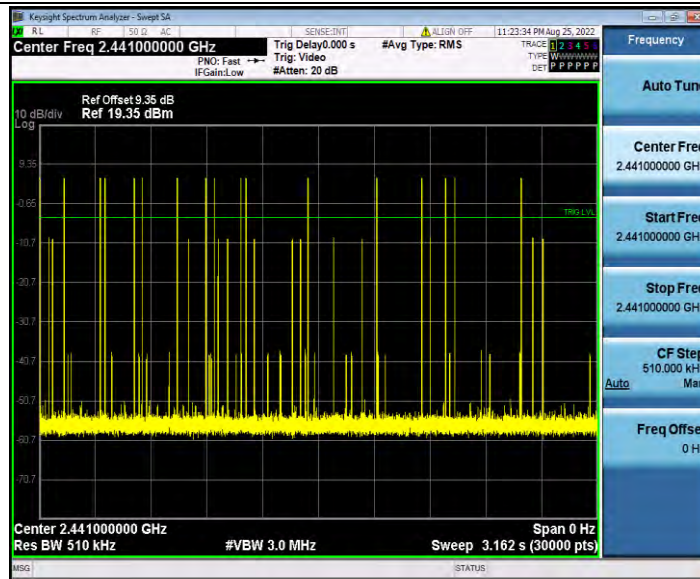


3DH3_Ant1_Hop



3DH5_Ant1_Hop





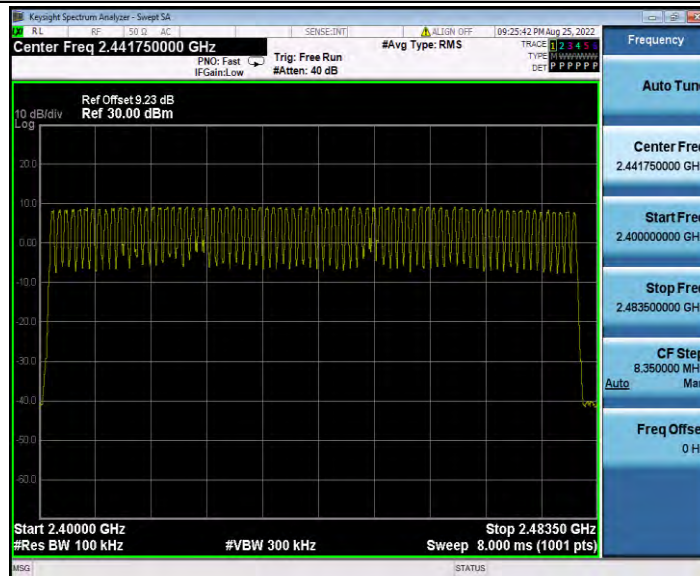
Appendix A.6: Number of hopping channels

Test Result

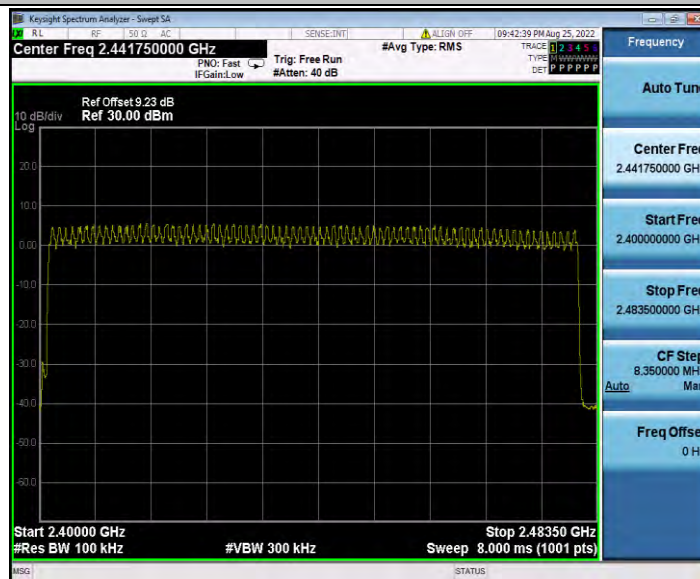
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

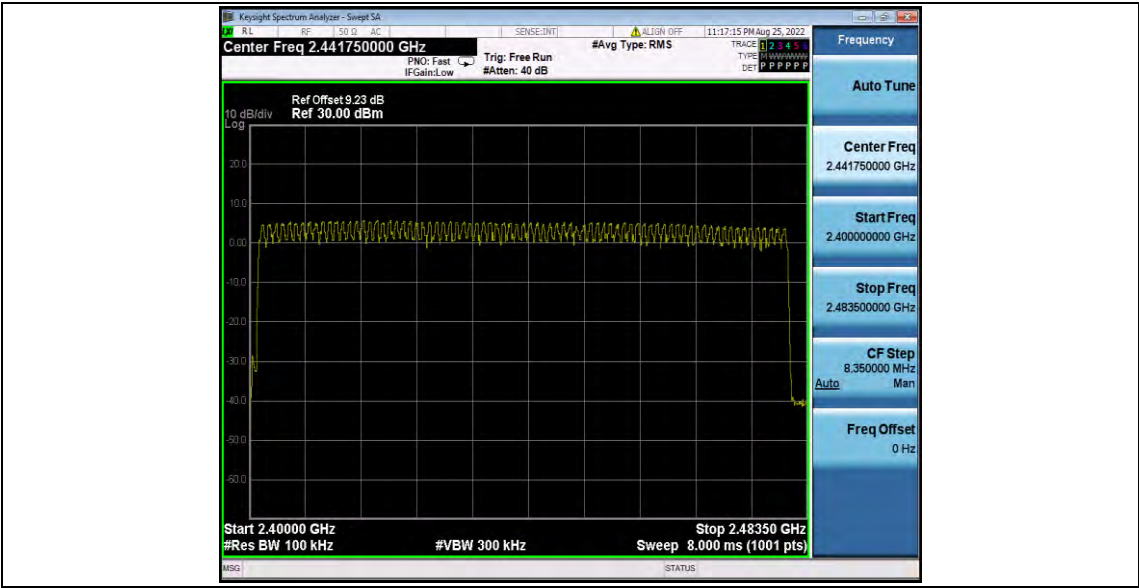
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



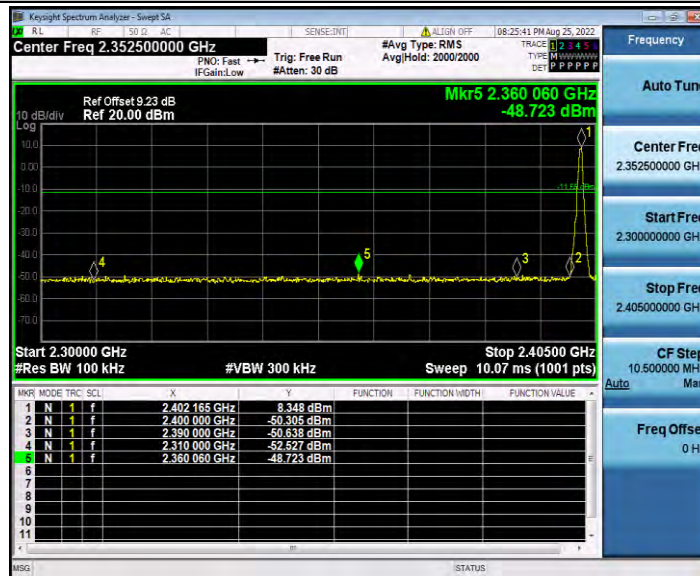
Appendix A.7: Band edge measurements

Test Result

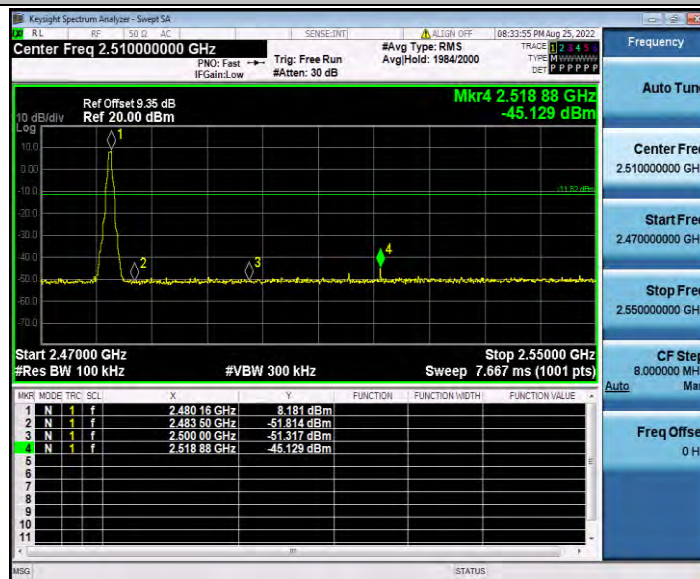
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.35	-48.72	≤-11.65	PASS
		High	2480	8.18	-45.13	≤-11.82	PASS
		Low	Hop_2402	7.82	-49.51	≤-12.18	PASS
		High	Hop_2480	4.09	-48.27	≤-15.91	PASS
2DH1	Ant1	Low	2402	4.76	-47.45	≤-15.24	PASS
		High	2480	3.85	-48.08	≤-16.15	PASS
		Low	Hop_2402	4.46	-49.15	≤-15.54	PASS
		High	Hop_2480	4.10	-48	≤-15.9	PASS
3DH1	Ant1	Low	2402	4.86	-49.13	≤-15.14	PASS
		High	2480	3.90	-46.48	≤-16.1	PASS
		Low	Hop_2402	4.44	-49.41	≤-15.56	PASS
		High	Hop_2480	4.01	-49.07	≤-15.99	PASS

Test Graphs

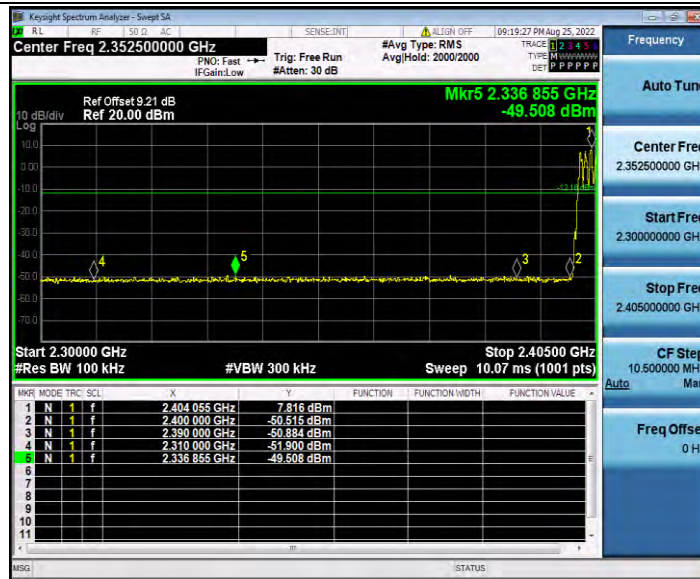
DH1_Ant1_Low_2402



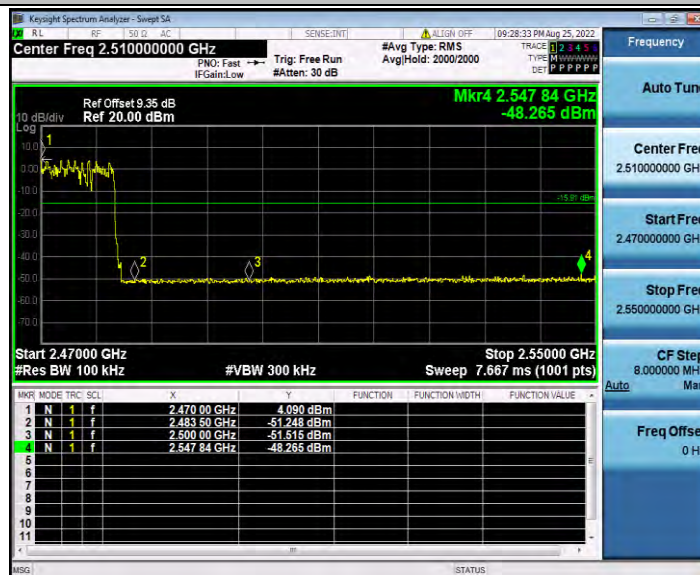
DH1_Ant1_High_2480



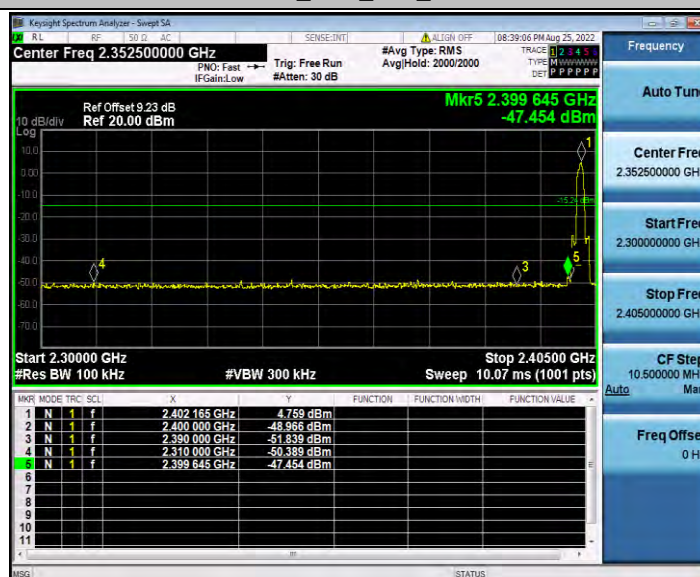
DH1_Ant1_Low_Hop_2402



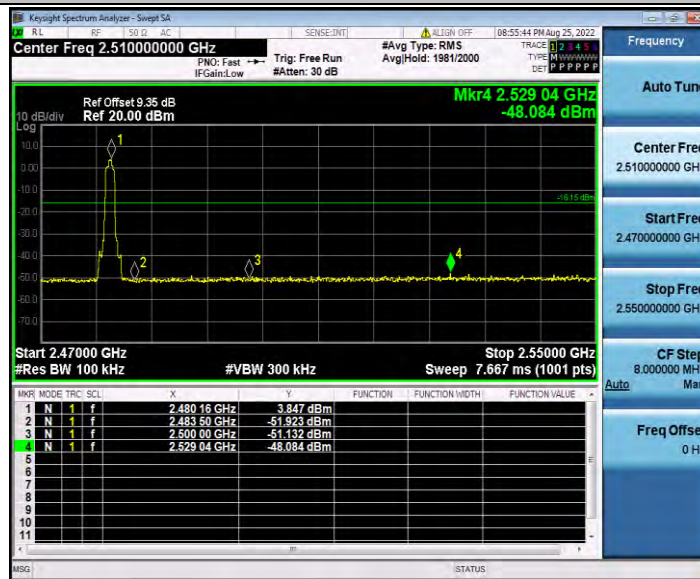
DH1_Ant1_High_Hop_2480



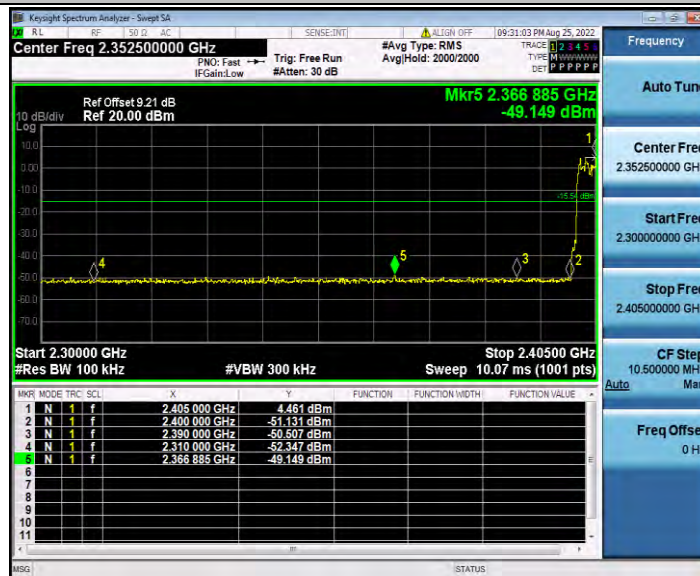
2DH1_Ant1_Low_2402



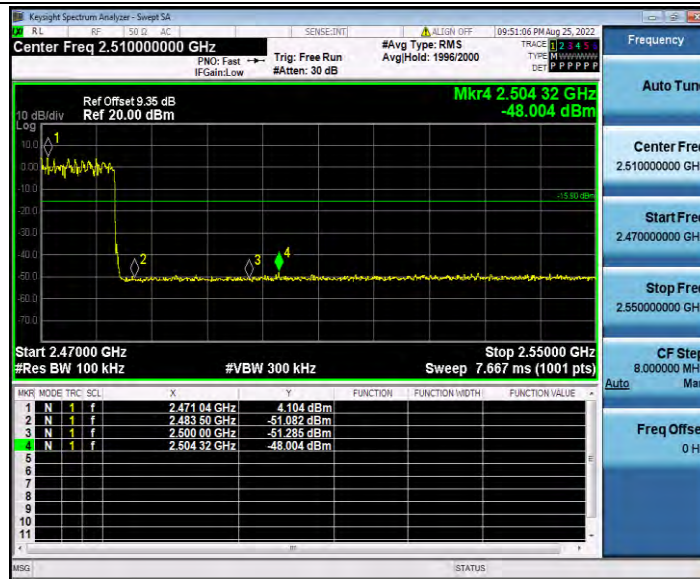
2DH1_Ant1_High_2480



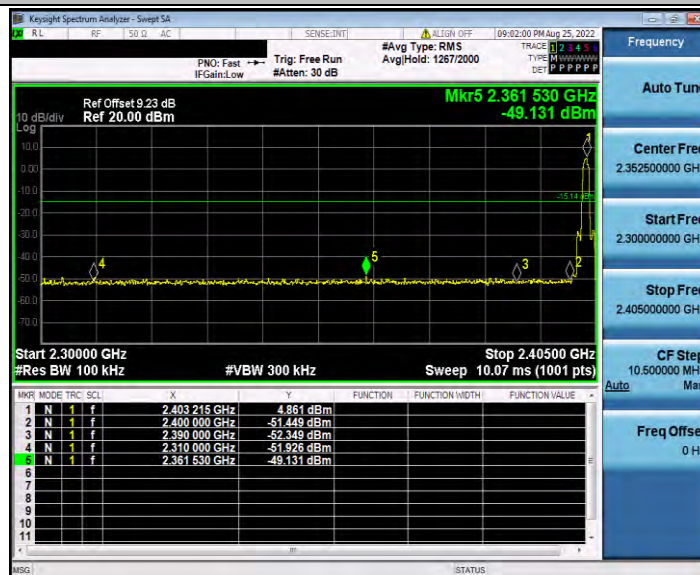
2DH1_Ant1_Low_Hop_2402



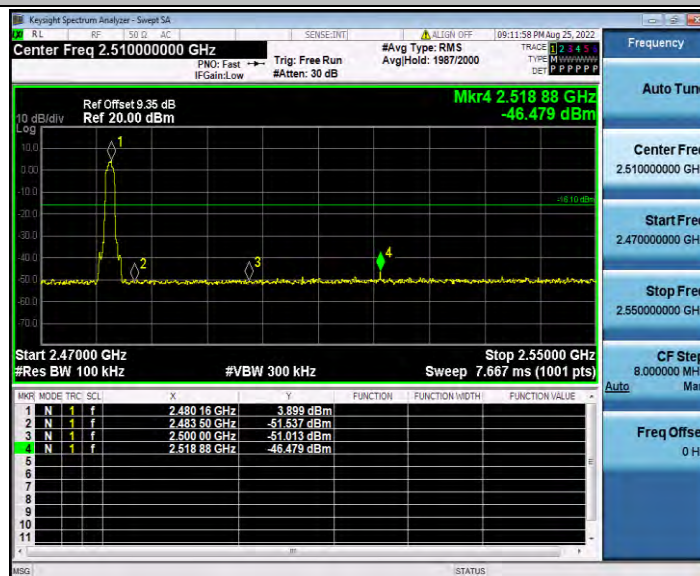
2DH1_Ant1_High_Hop_2480



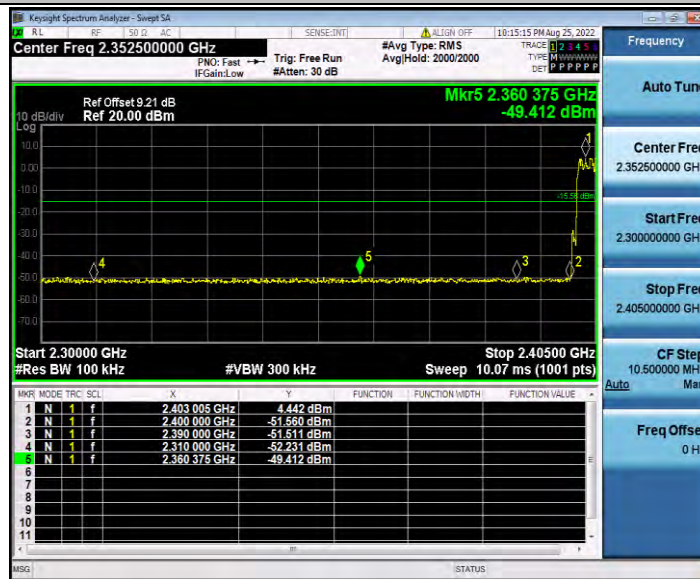
3DH1_Ant1_Low_2402



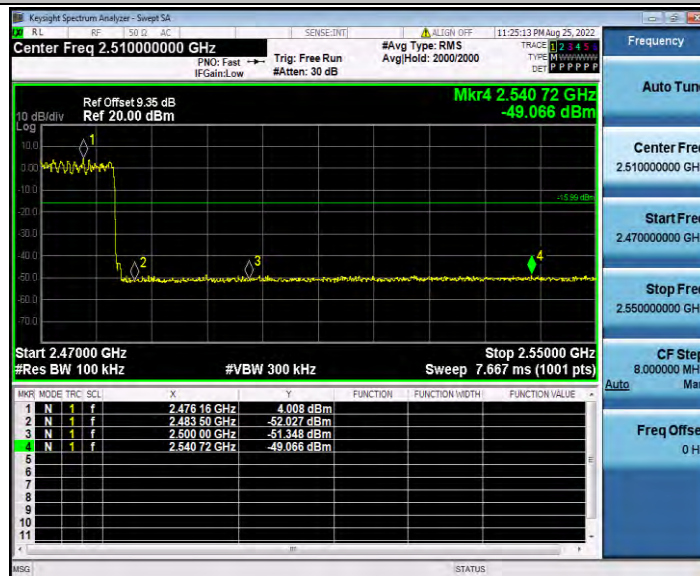
3DH1_Ant1_High_2480



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	7.93	7.93	---	PASS
			30~1000	7.93	-60.81	≤-12.07	PASS
			1000~26500	7.93	-47.35	≤-12.07	PASS
		2441	Reference	8.72	8.72	---	PASS
			30~1000	8.72	-59.9	≤-11.28	PASS
			1000~26500	8.72	-44.95	≤-11.28	PASS
		2480	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-59.6	≤-12.14	PASS
			1000~26500	7.86	-47.57	≤-12.14	PASS
2DH1	Ant1	2402	Reference	4.43	4.43	---	PASS
			30~1000	4.43	-60.07	≤-15.57	PASS
			1000~26500	4.43	-47.07	≤-15.57	PASS
		2441	Reference	4.80	4.80	---	PASS
			30~1000	4.80	-60.43	≤-15.2	PASS
			1000~26500	4.80	-47.88	≤-15.2	PASS
		2480	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-60.58	≤-16.46	PASS
			1000~26500	3.54	-47.3	≤-16.46	PASS
3DH1	Ant1	2402	Reference	1.82	1.82	---	PASS
			30~1000	1.82	-52.63	≤-18.18	PASS
			1000~26500	1.82	-45.15	≤-18.18	PASS
		2441	Reference	4.98	4.98	---	PASS
			30~1000	4.98	-60.51	≤-15.02	PASS
			1000~26500	4.98	-47.75	≤-15.02	PASS
		2480	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-60.19	≤-16.3	PASS
			1000~26500	3.70	-47.93	≤-16.3	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



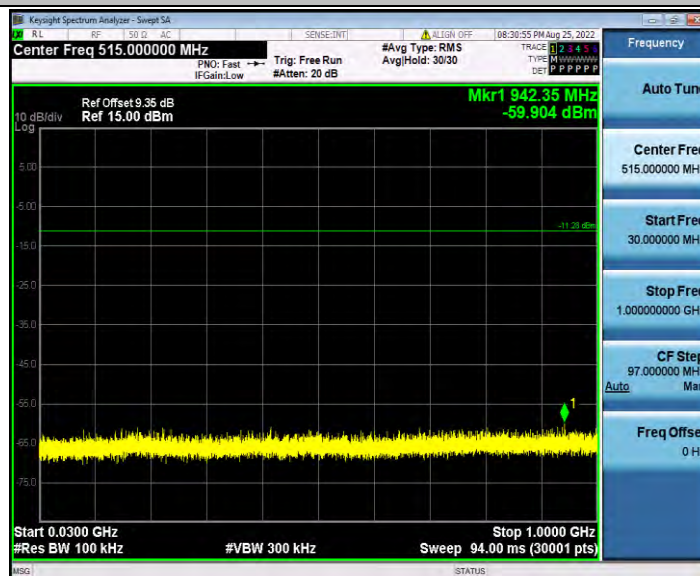
DH1_Ant1_2402_1000~26500



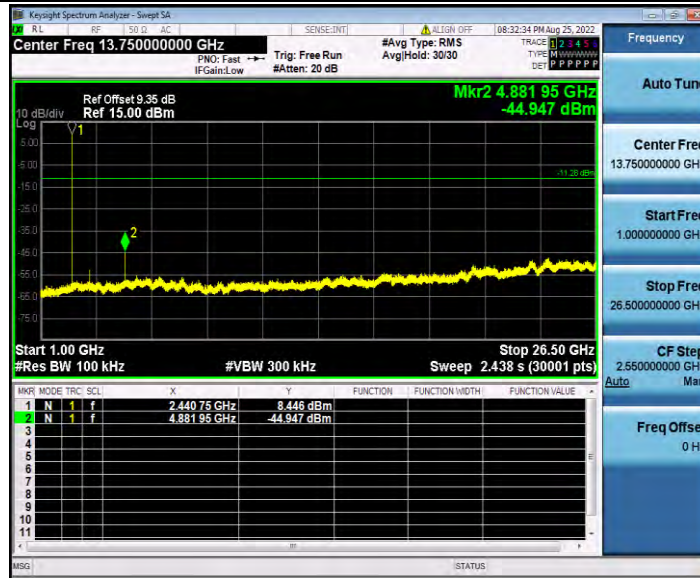
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



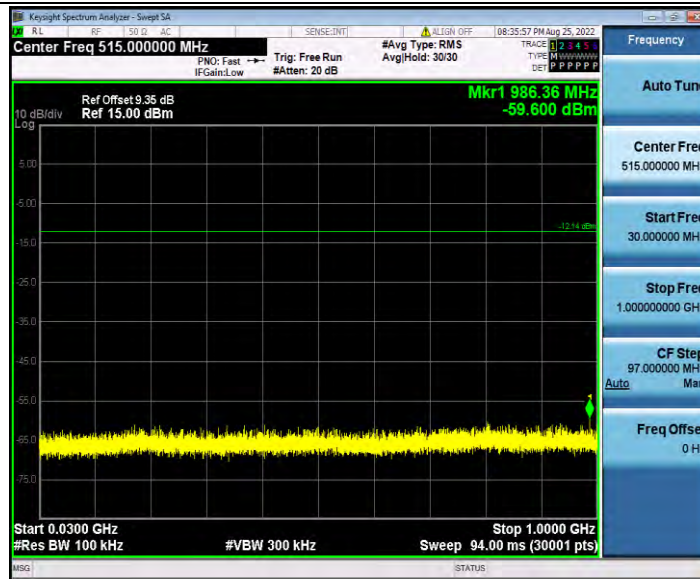
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



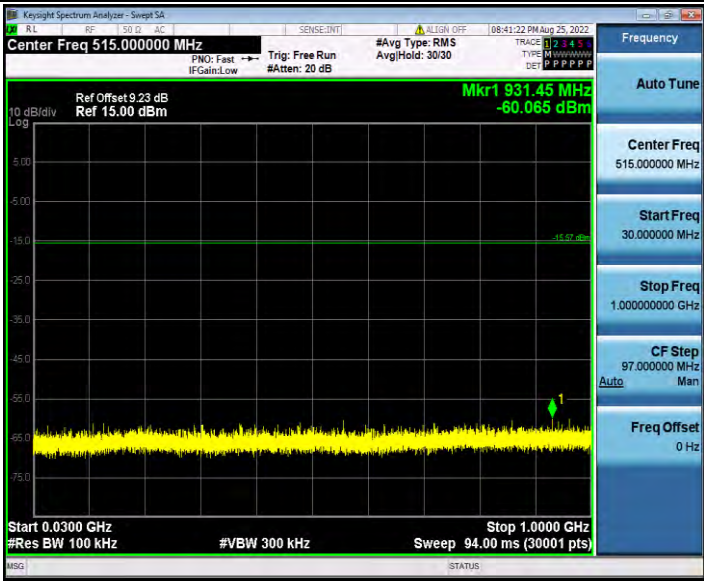
DH1_Ant1_2480_1000~26500



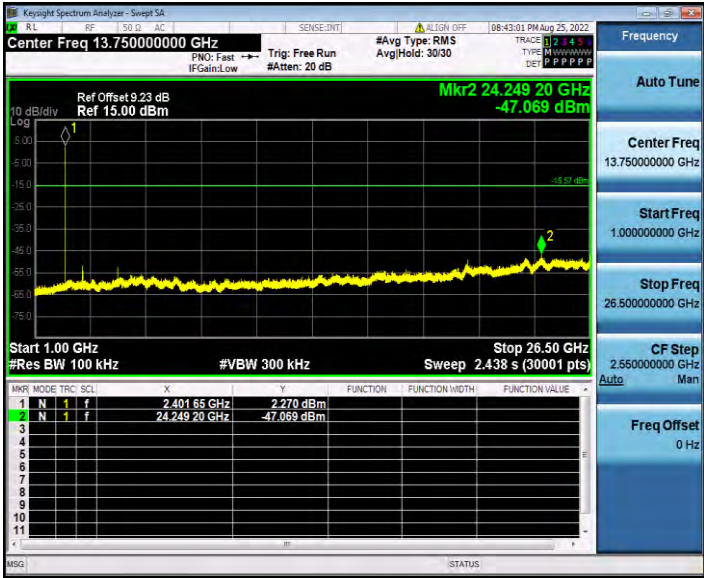
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



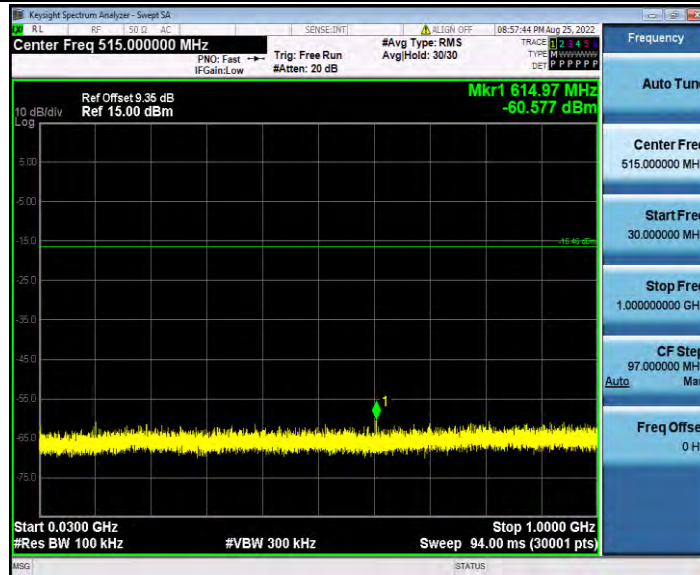
2DH1_Ant1_2441_1000~26500



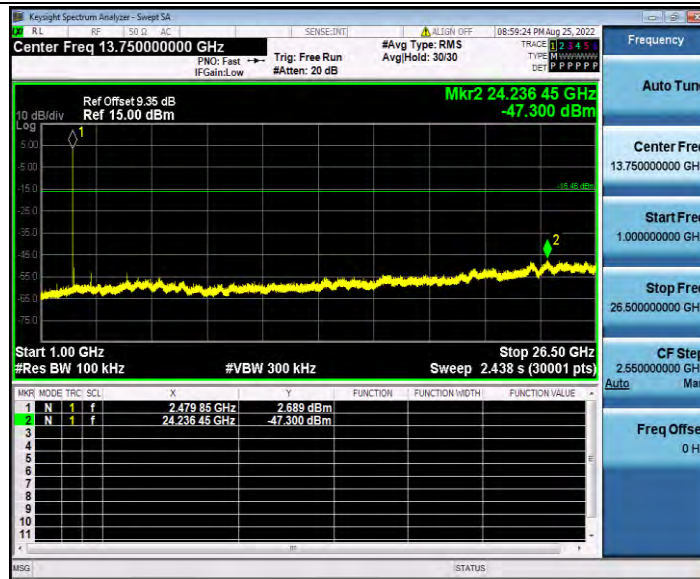
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



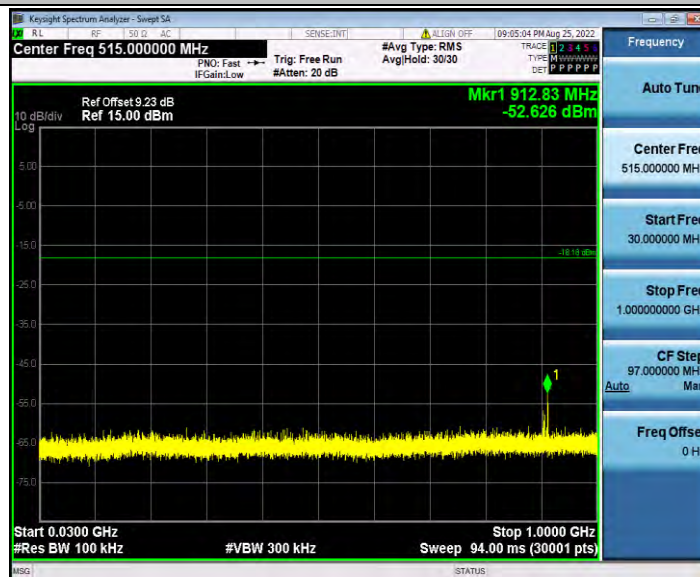
2DH1_Ant1_2480_1000~26500



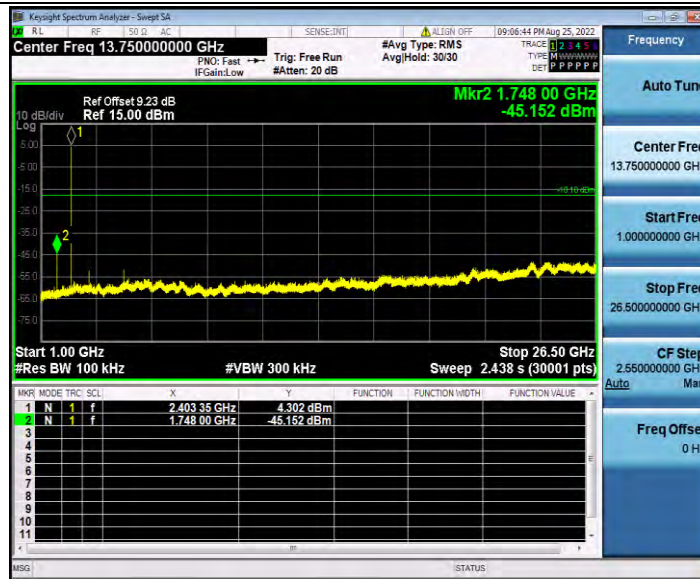
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



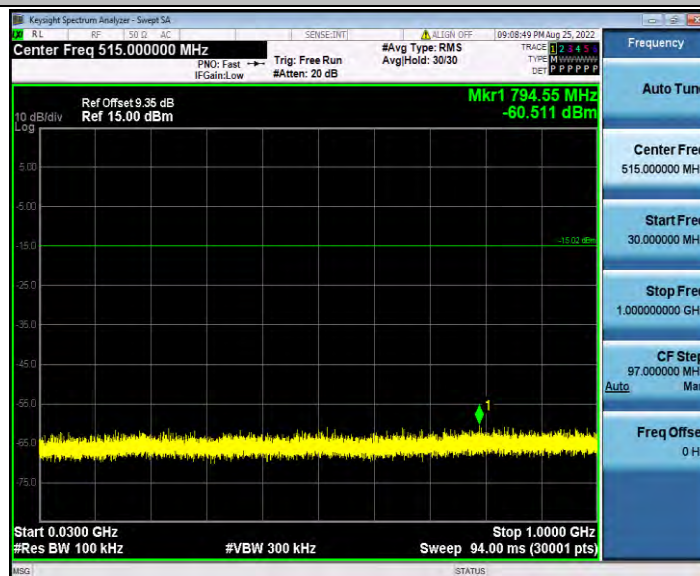
3DH1_Ant1_2402_1000~26500



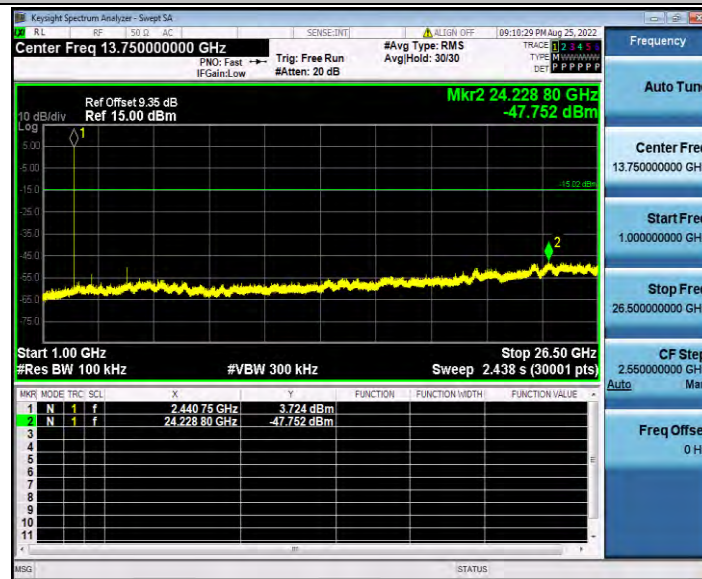
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



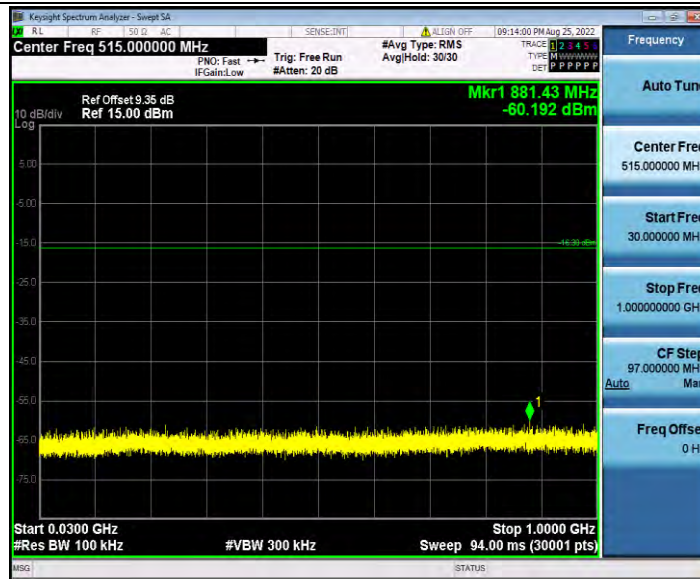
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

