

Case No. : <u>GTS20221012010-1-23</u>	
Ambient Condition: <u>26</u> °C, <u>50</u> %RH,	
Test Date: <u>2022.11.18</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]
DH1	Ant1	2402	1.020	2401.487	2402.507
		2441	0.948	2440.547	2441.495
		2480	0.894	2479.544	2480.438
2DH1	Ant1	2402	1.266	2401.373	2402.639
		2441	1.248	2440.385	2441.633
		2480	1.272	2479.355	2480.627
3DH1	Ant1	2402	1.269	2401.370	2402.639
		2441	1.266	2440.361	2441.627
		2480	1.263	2479.358	2480.621

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]
DH1	Ant1	2402	0.86065	2401.569	2402.429
		2441	0.84769	2440.580	2441.428
		2480	0.86402	2479.558	2480.422
2DH1	Ant1	2402	1.1673	2401.411	2402.578
		2441	1.1483	2440.427	2441.575
		2480	1.1538	2479.414	2480.568
3DH1	Ant1	2402	1.1658	2401.425	2402.590
		2441	1.1559	2440.431	2441.586
		2480	1.1527	2479.422	2480.575

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



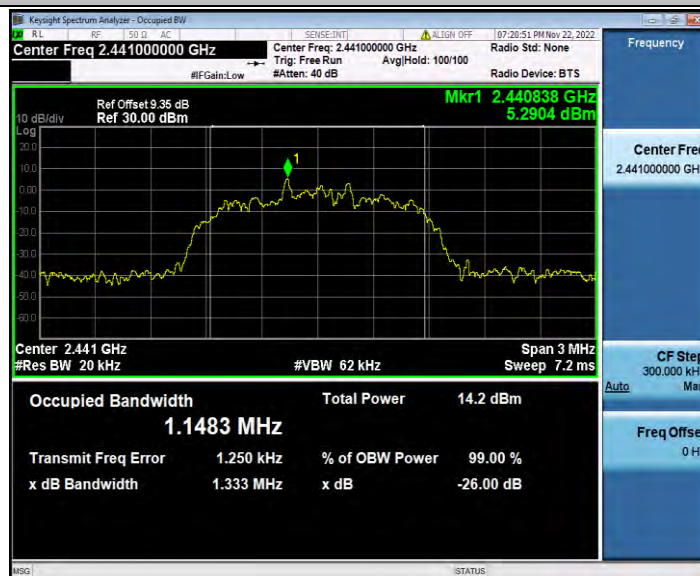
DH1_Ant1_2480



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	≤ 20.97	PASS
		2441	8.99	≤ 20.97	PASS
		2480	7.13	≤ 20.97	PASS
2DH1	Ant1	2402	7.61	≤ 20.97	PASS
		2441	9.01	≤ 20.97	PASS
		2480	6.4	≤ 20.97	PASS
3DH1	Ant1	2402	7.74	≤ 20.97	PASS
		2441	9	≤ 20.97	PASS
		2480	6.24	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.002	≥ 0.680	PASS
		Hop_2441	1.162	≥ 0.680	PASS
		Hop_2480	0.994	≥ 0.680	PASS
2DH1	Ant1	Hop_2402	1.016	≥ 0.848	PASS
		Hop_2441	0.992	≥ 0.848	PASS
		Hop_2480	1	≥ 0.848	PASS
3DH1	Ant1	Hop_2402	1.074	≥ 0.846	PASS
		Hop_2441	1.018	≥ 0.846	PASS
		Hop_2480	1.004	≥ 0.846	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

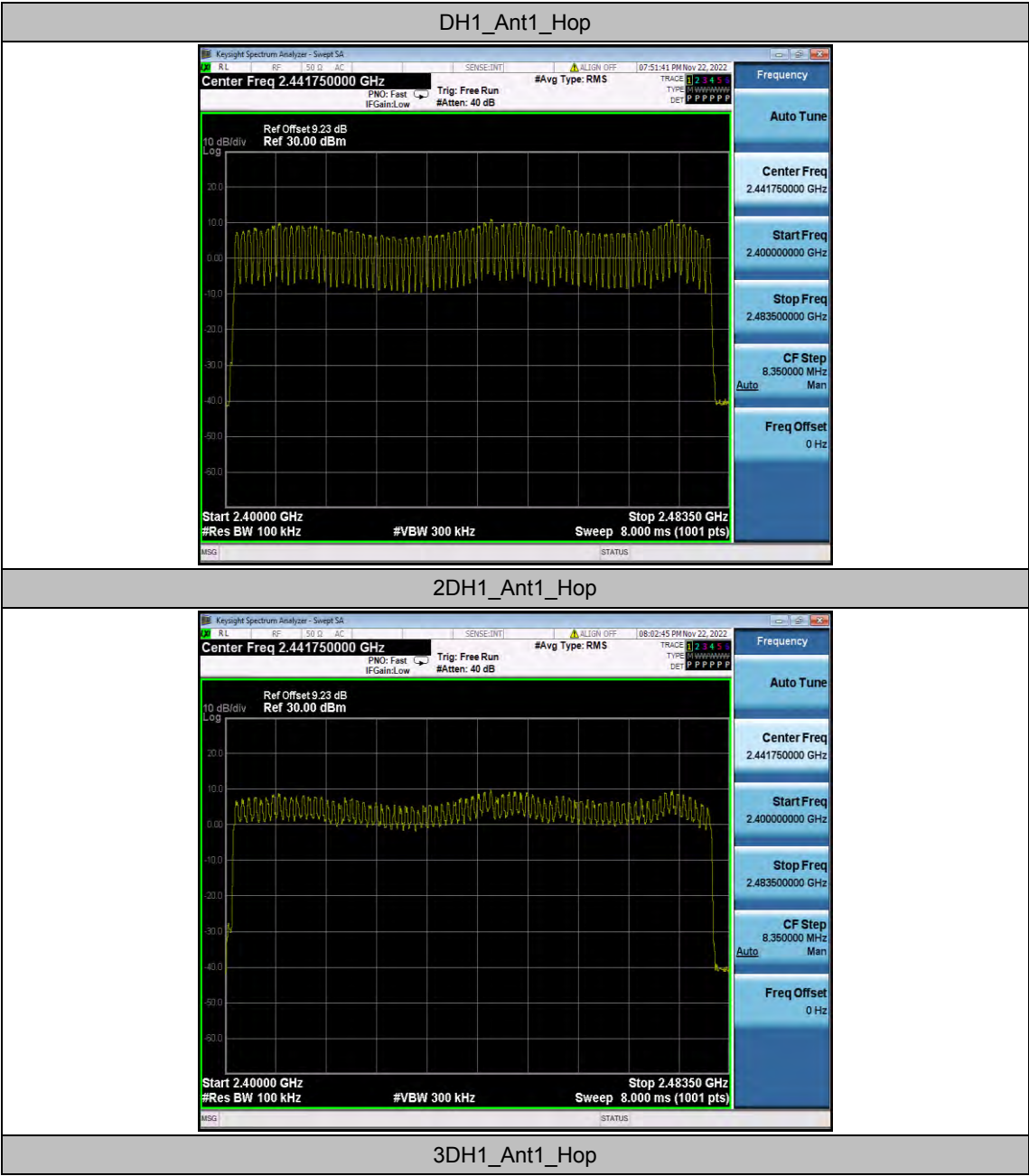


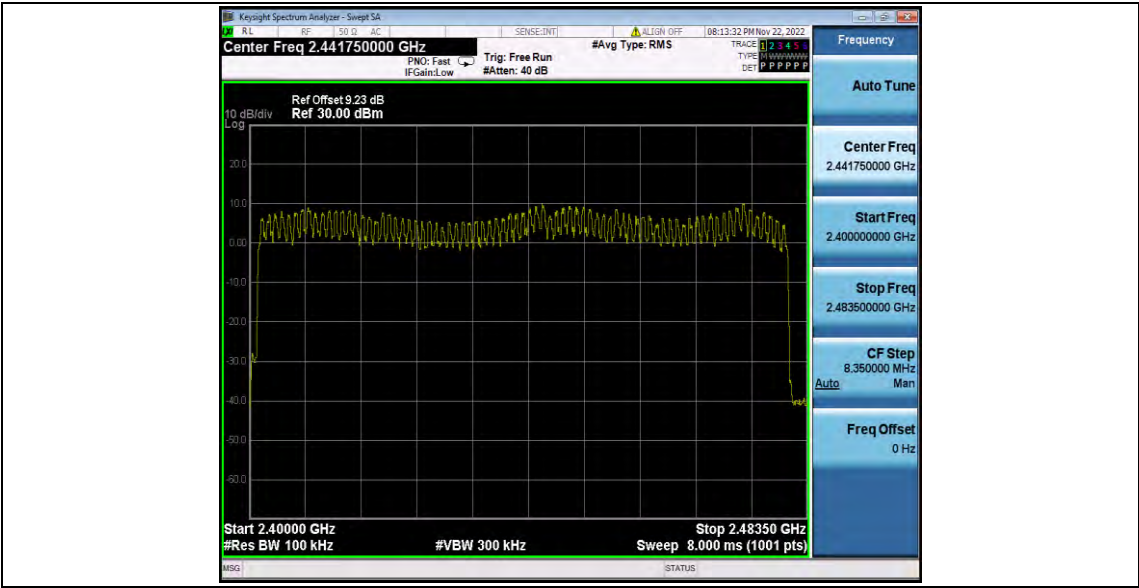
Appendix A.5: Number of hopping channels

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





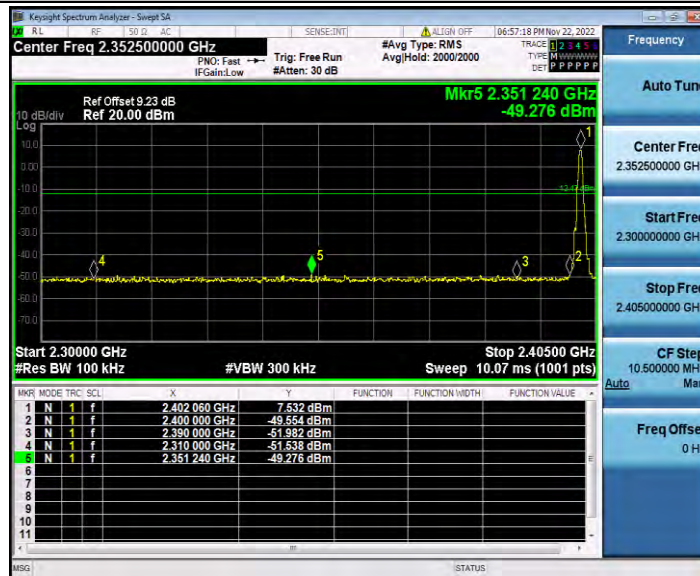
Appendix A.6: Band edge measurements

Test Result

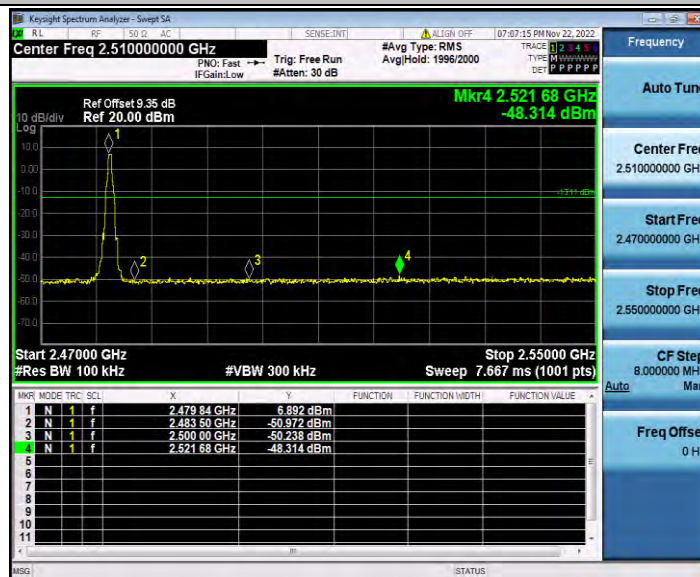
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.53	-49.28	≤-12.47	PASS
		High	2480	6.89	-48.31	≤-13.11	PASS
		Low	Hop_2402	8.46	-49.23	≤-11.54	PASS
		High	Hop_2480	10.64	-48.32	≤-9.36	PASS
2DH1	Ant1	Low	2402	7.03	-43.24	≤-12.97	PASS
		High	2480	6.00	-47.72	≤-14	PASS
		Low	Hop_2402	5.07	-49.23	≤-14.93	PASS
		High	Hop_2480	8.82	-48.17	≤-11.18	PASS
3DH1	Ant1	Low	2402	6.97	-41.89	≤-13.03	PASS
		High	2480	5.02	-47.89	≤-14.98	PASS
		Low	Hop_2402	6.32	-49.36	≤-13.68	PASS
		High	Hop_2480	8.52	-48.6	≤-11.48	PASS

Test Graphs

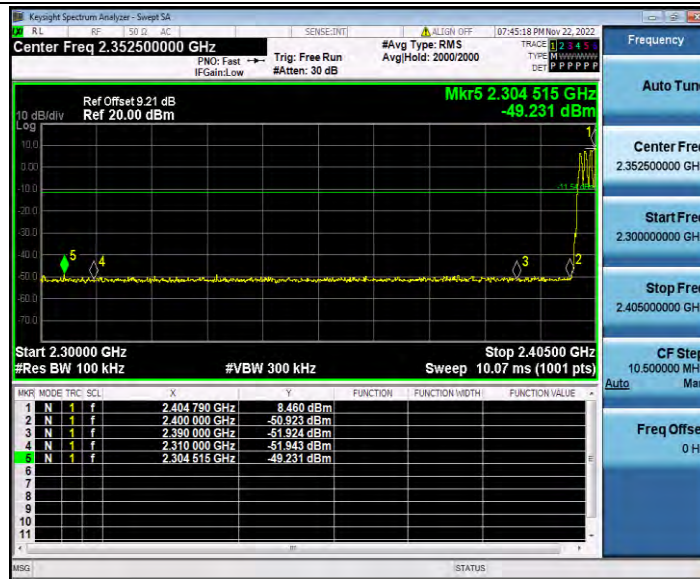
DH1_Ant1_Low_2402



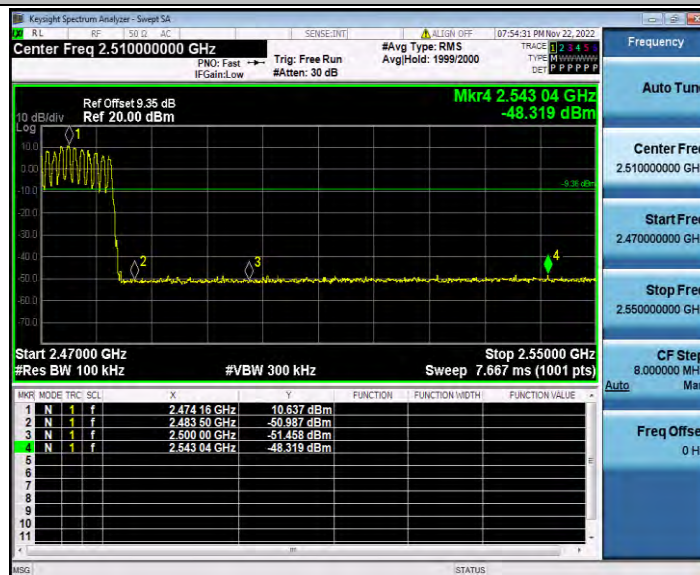
DH1_Ant1_High_2480



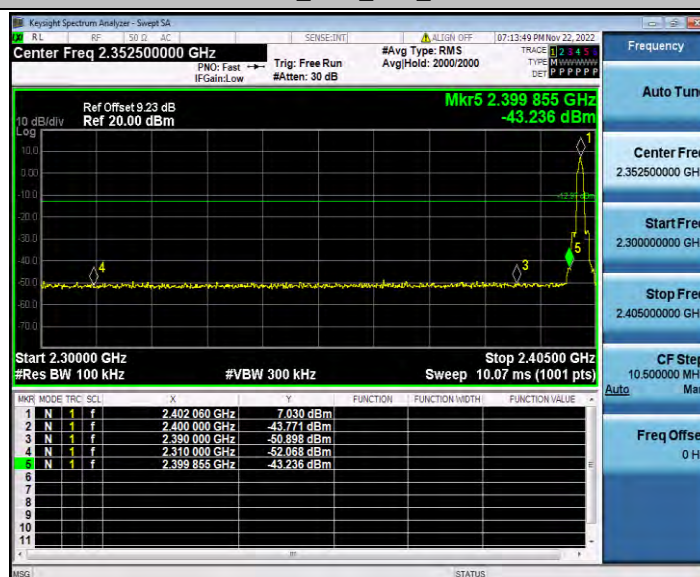
DH1_Ant1_Low_Hop_2402



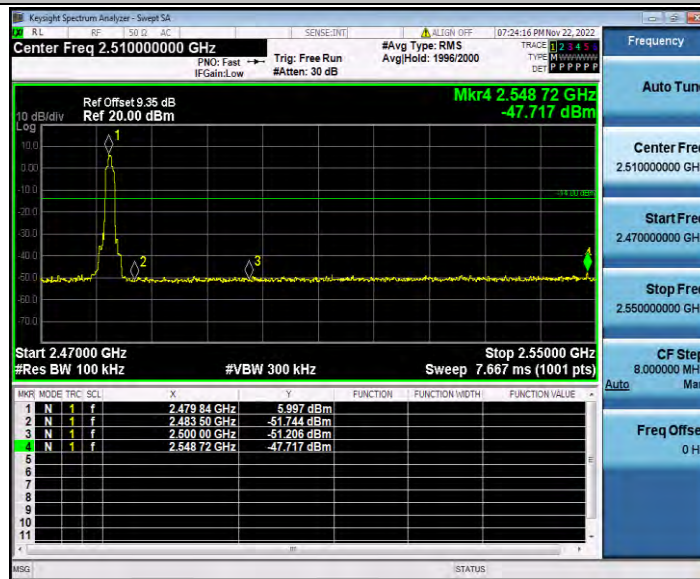
DH1_Ant1_High_Hop_2480



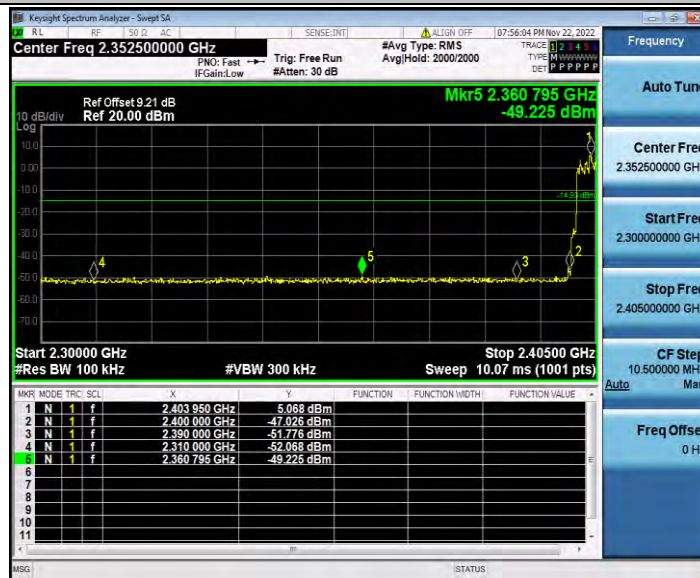
2DH1_Ant1_Low_2402



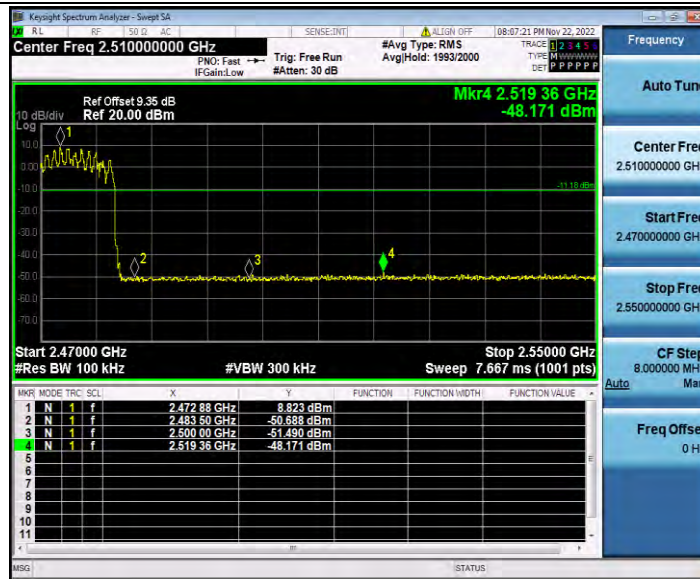
2DH1_Ant1_High_2480



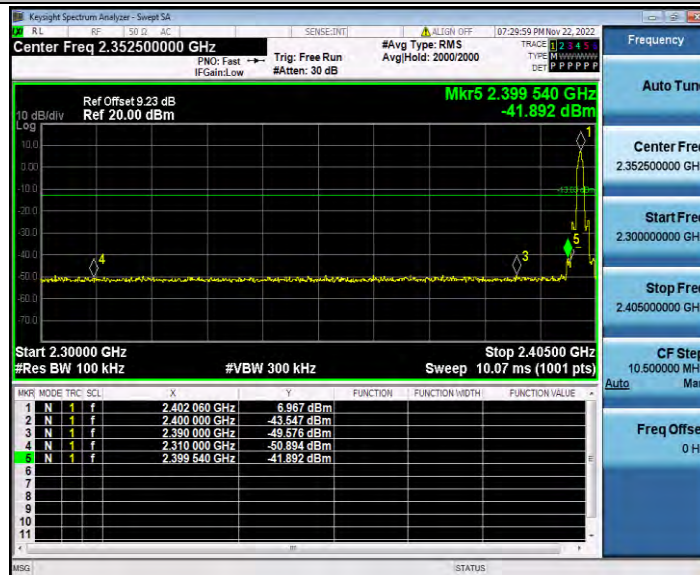
2DH1_Ant1_Low_Hop_2402



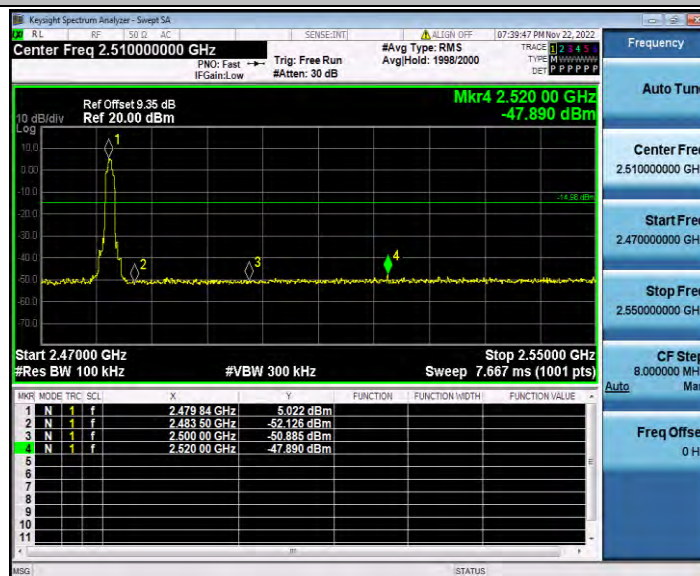
2DH1_Ant1_High_Hop_2480



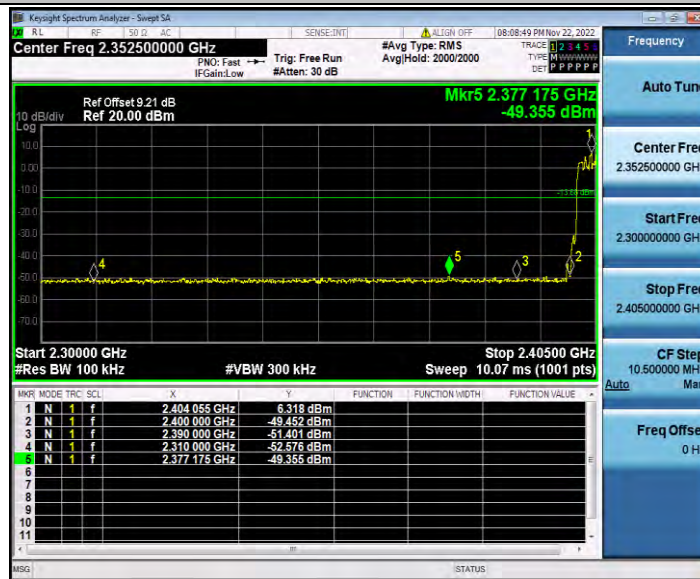
3DH1_Ant1_Low_2402



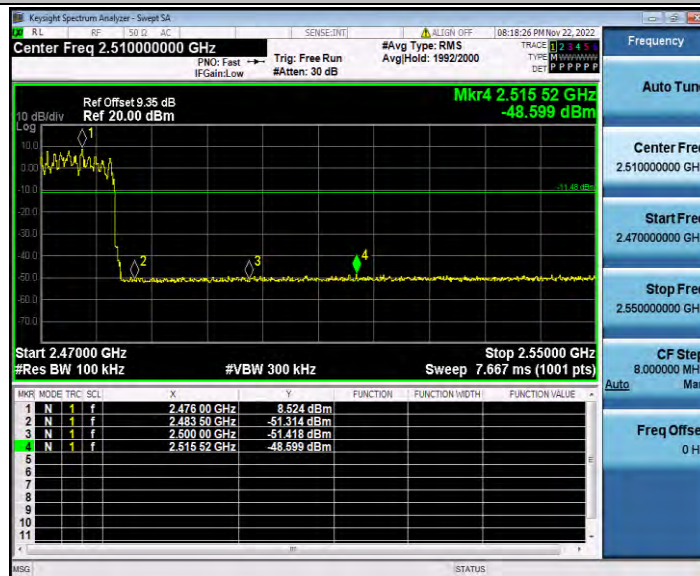
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.7: Conducted Spurious Emission

Test Result

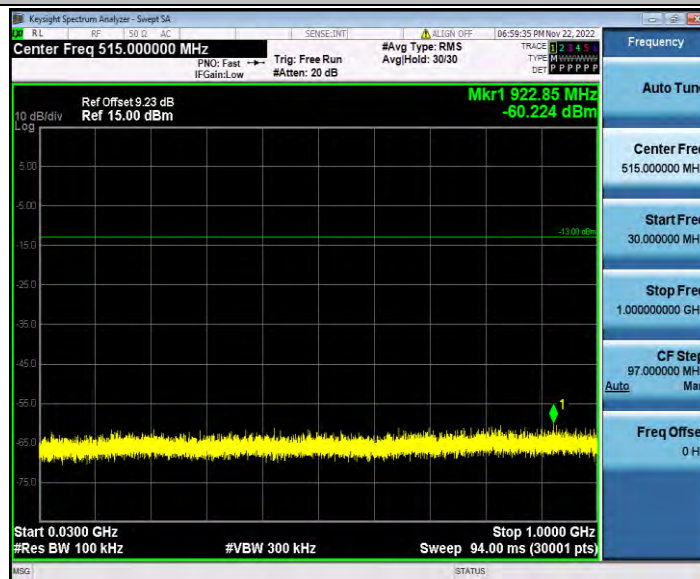
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.00	7.00	---	PASS
			30~1000	7.00	-60.22	≤ -13	PASS
			1000~26500	7.00	-47.27	≤ -13	PASS
		2441	Reference	8.47	8.47	---	PASS
			30~1000	8.47	-59.61	≤ -11.53	PASS
			1000~26500	8.47	-47.98	≤ -11.53	PASS
		2480	Reference	6.01	6.01	---	PASS
			30~1000	6.01	-60.2	≤ -13.99	PASS
			1000~26500	6.01	-47.32	≤ -13.99	PASS
2DH1	Ant1	2402	Reference	6.32	6.32	---	PASS
			30~1000	6.32	-60.26	≤ -13.68	PASS
			1000~26500	6.32	-47.08	≤ -13.68	PASS
		2441	Reference	7.21	7.21	---	PASS
			30~1000	7.21	-59.8	≤ -12.79	PASS
			1000~26500	7.21	-47.7	≤ -12.79	PASS
		2480	Reference	5.56	5.56	---	PASS
			30~1000	5.56	-60.41	≤ -14.44	PASS
			1000~26500	5.56	-47.21	≤ -14.44	PASS
3DH1	Ant1	2402	Reference	5.69	5.69	---	PASS
			30~1000	5.69	-60.26	≤ -14.31	PASS
			1000~26500	5.69	-47.12	≤ -14.31	PASS
		2441	Reference	7.44	7.44	---	PASS
			30~1000	7.44	-60.61	≤ -12.56	PASS
			1000~26500	7.44	-47.87	≤ -12.56	PASS
		2480	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-60.3	≤ -15.41	PASS
			1000~26500	4.59	-46.28	≤ -15.41	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



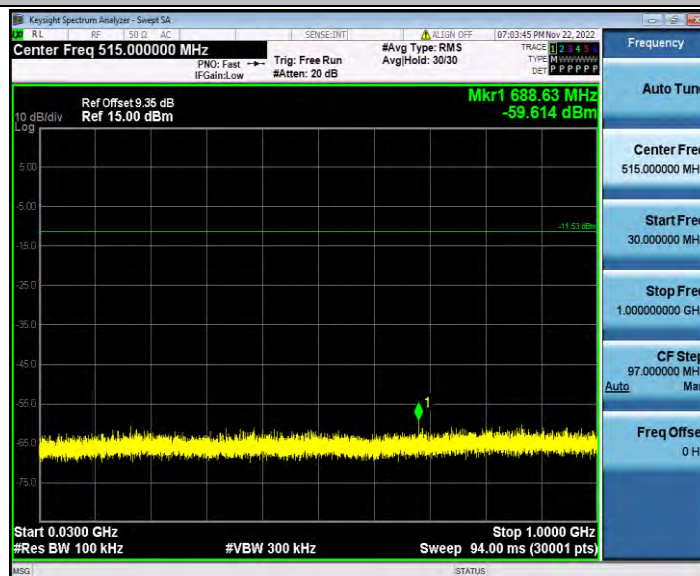
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



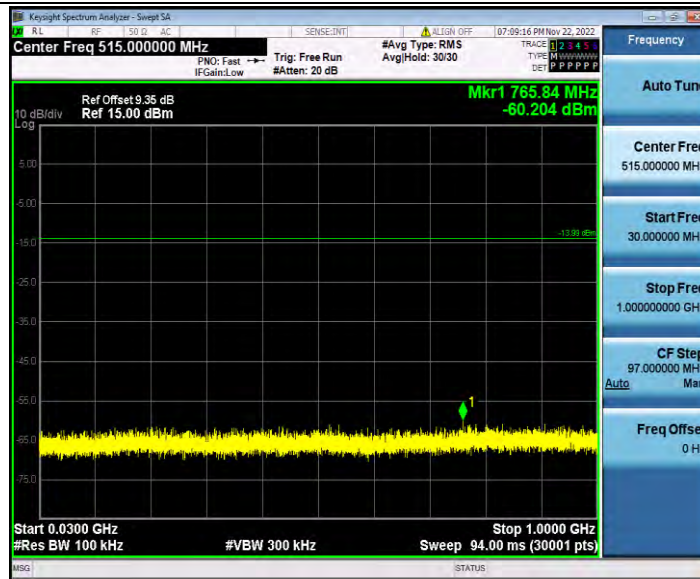
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



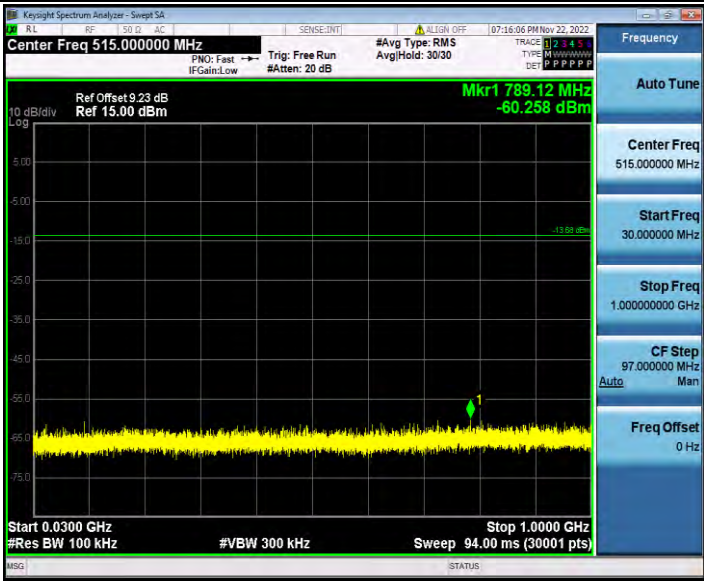
DH1_Ant1_2480_1000~26500



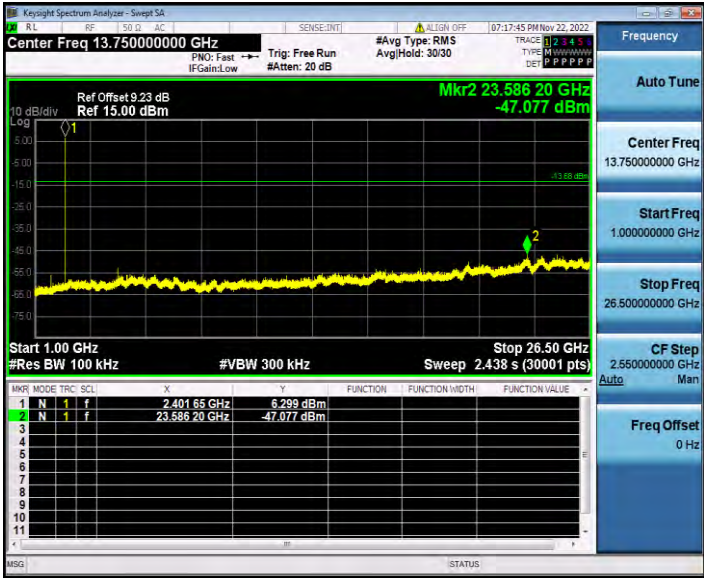
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



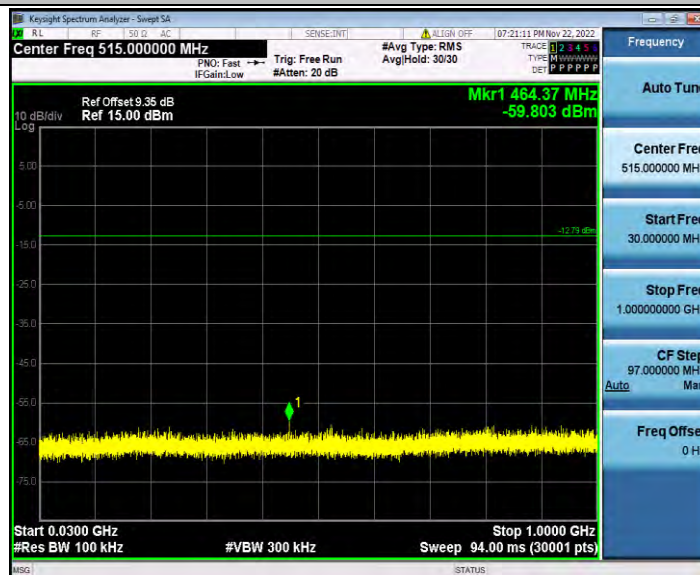
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



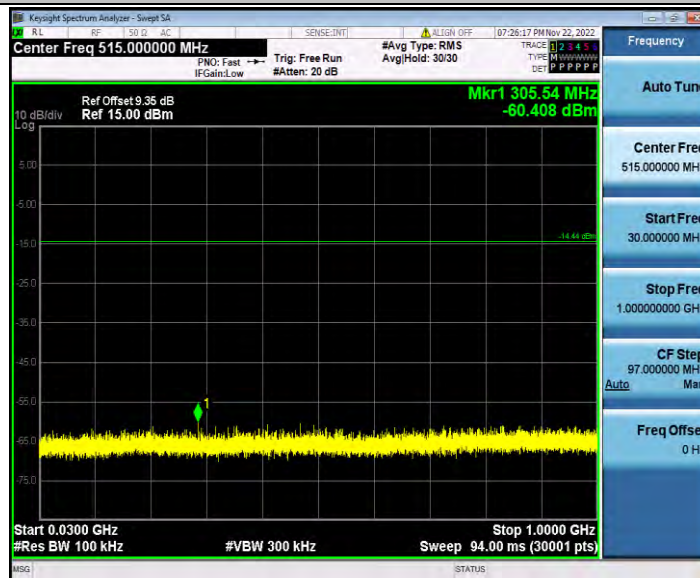
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



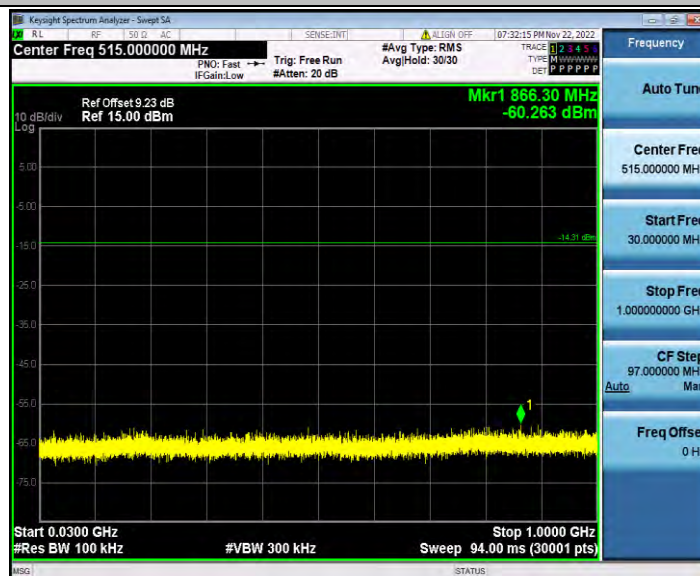
2DH1_Ant1_2480_1000~26500



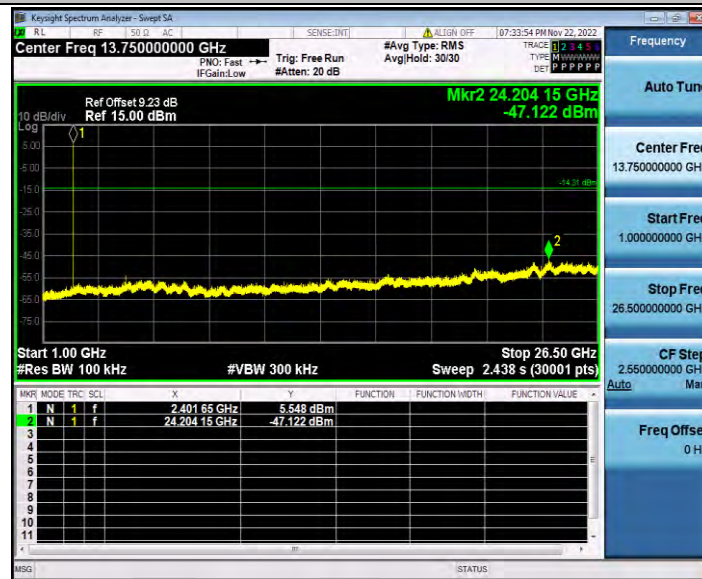
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



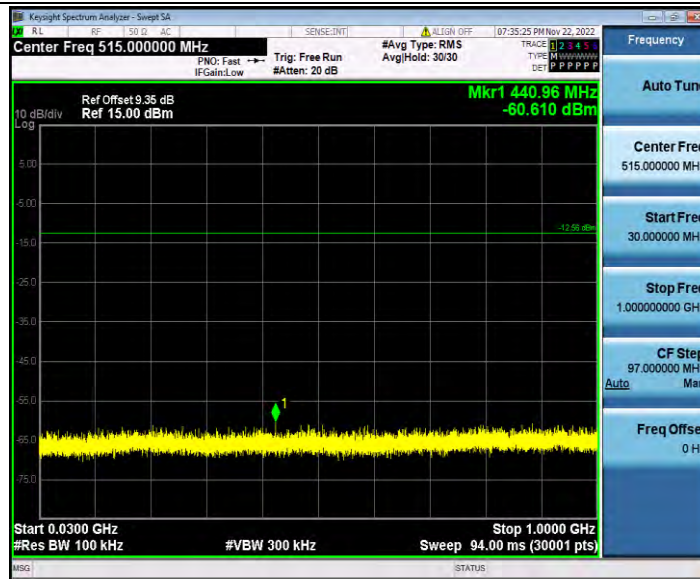
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



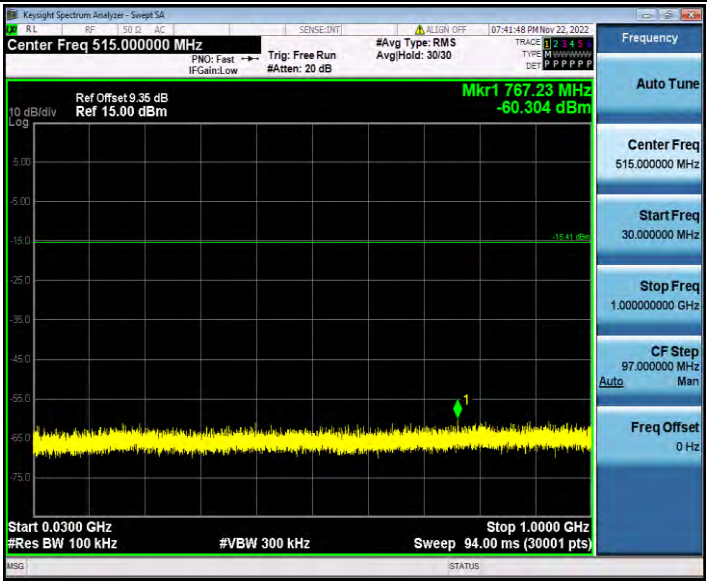
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

