



Appendix A

RF Test Data for 2.4G BT (Conducted Measurement)

Product Name: E07

Trade Mark: LIBMING

Test Model: E07

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



Appendix A.1: 20dB Emission Bandwidth

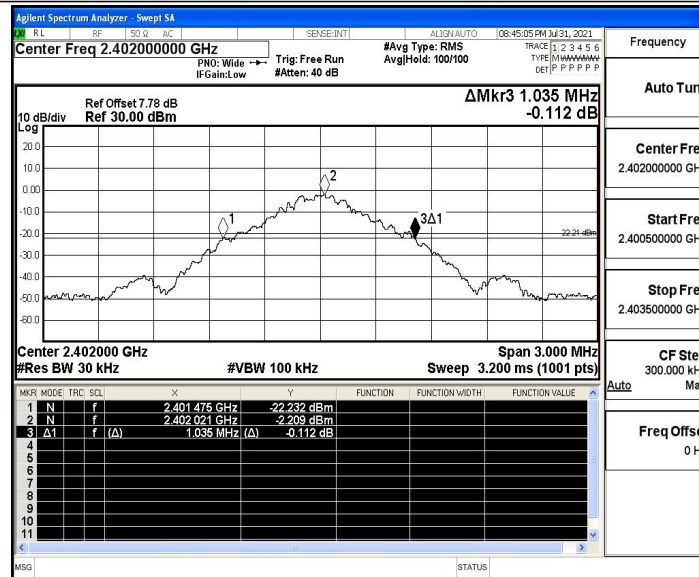
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.475	2402.510	---	PASS
		2441	1.041	2440.466	2441.507	---	PASS
		2480	1.038	2479.460	2480.498	---	PASS
2DH5	Ant1	2402	1.278	2401.361	2402.639	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.335	2479.328	2480.663	---	PASS
3DH5	Ant1	2402	1.350	2401.322	2402.672	---	PASS
		2441	1.323	2440.340	2441.663	---	PASS
		2480	1.308	2479.343	2480.651	---	PASS

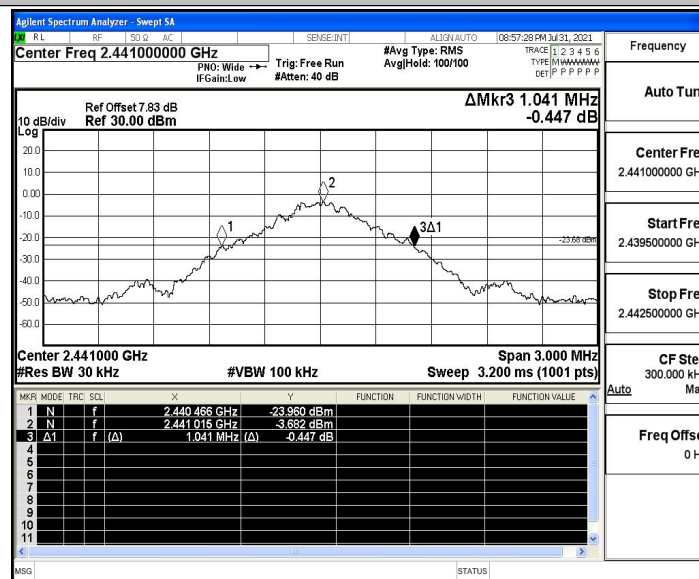


Test Graphs

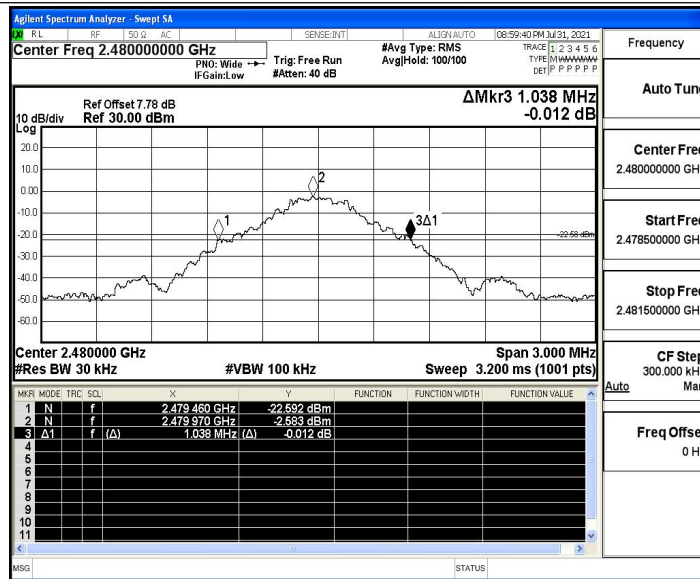
DH5_Ant1_2402



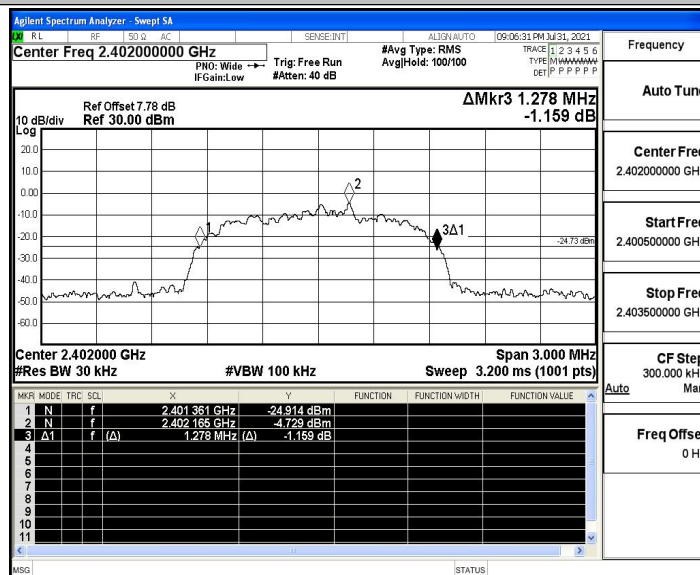
DH5_Ant1_2441



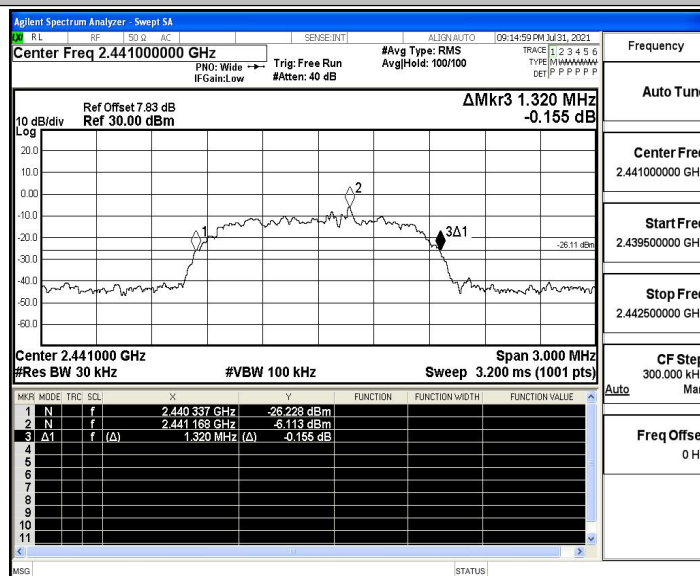
DH5_Ant1_2480



2DH5_Ant1_2402

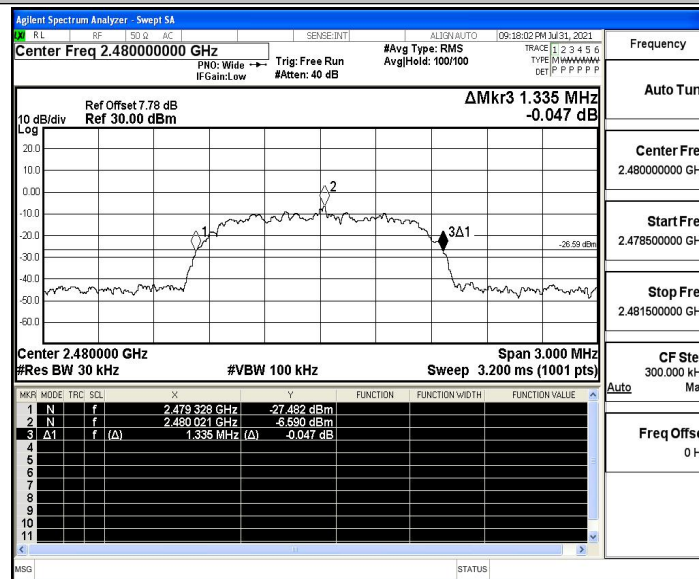


2DH5_Ant1_2441

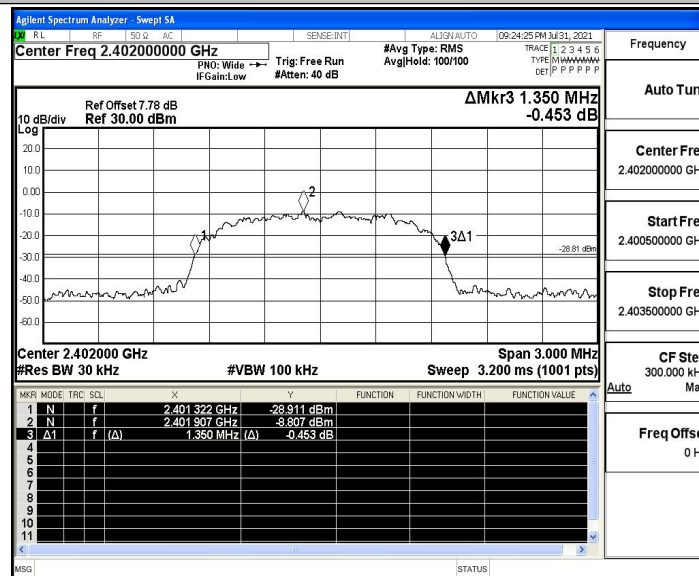




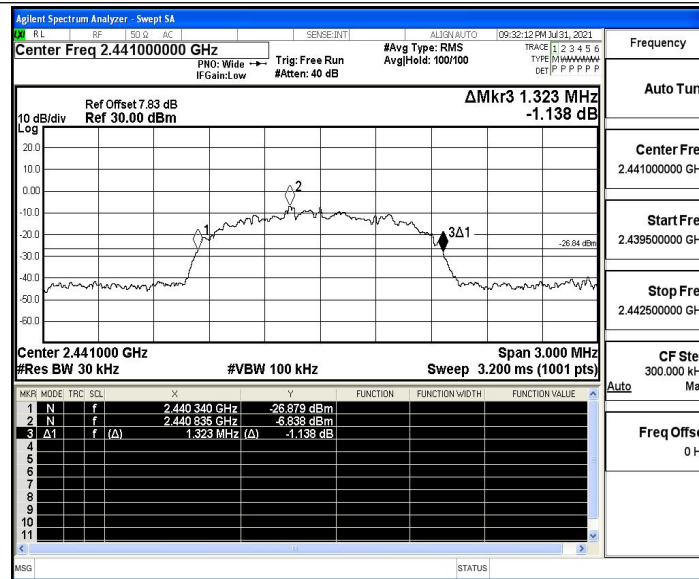
2DH5_Ant1_2480



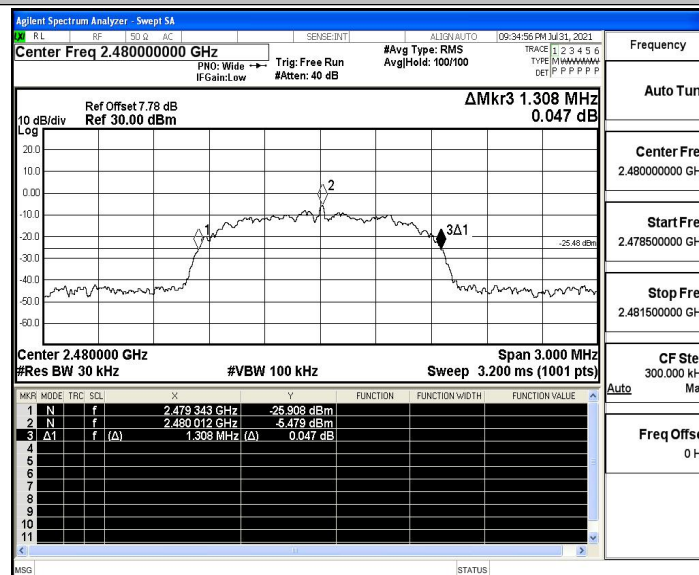
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





Appendix A.2: Maximum conducted output power

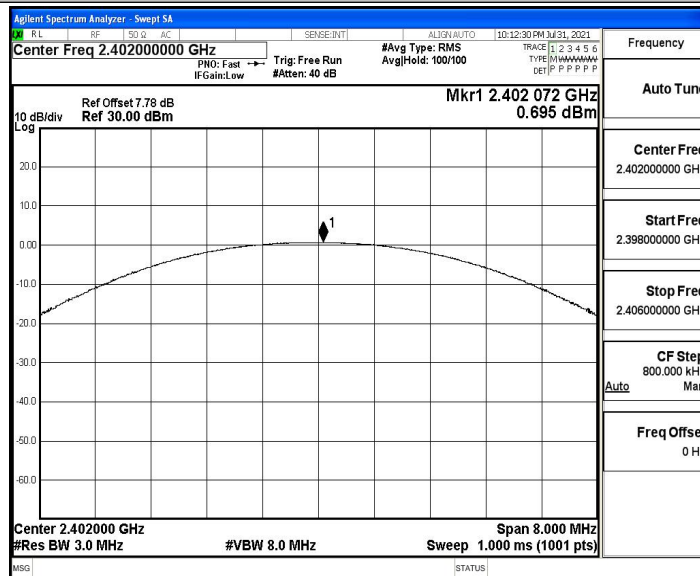
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.7	≤ 20.97	PASS
		2441	-0.7	≤ 20.97	PASS
		2480	0.48	≤ 20.97	PASS
2DH5	Ant1	2402	-0.38	≤ 20.97	PASS
		2441	-1.5	≤ 20.97	PASS
		2480	-0.43	≤ 20.97	PASS
3DH5	Ant1	2402	-0.11	≤ 20.97	PASS
		2441	-1.32	≤ 20.97	PASS
		2480	-0.18	≤ 20.97	PASS

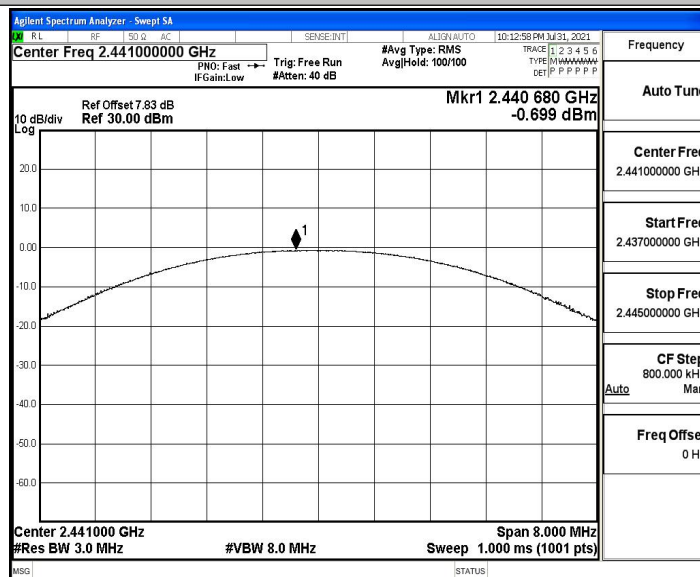


Test Graphs

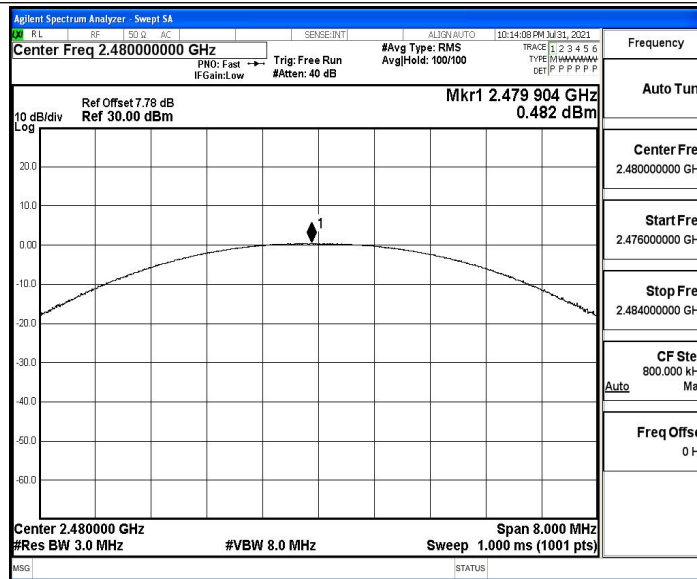
DH5_Ant1_2402



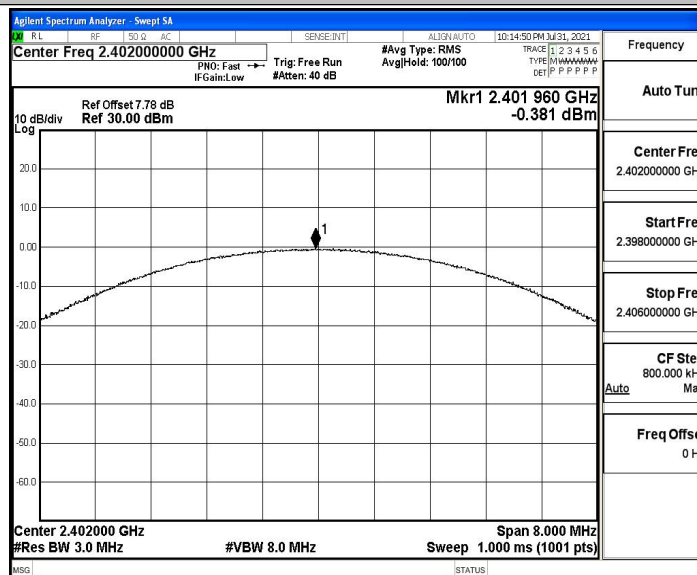
DH5_Ant1_2441



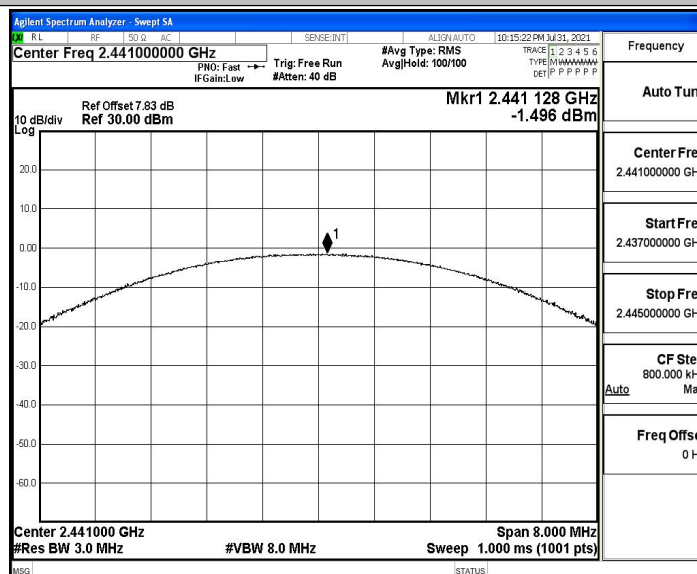
DH5_Ant1_2480



2DH5_Ant1_2402

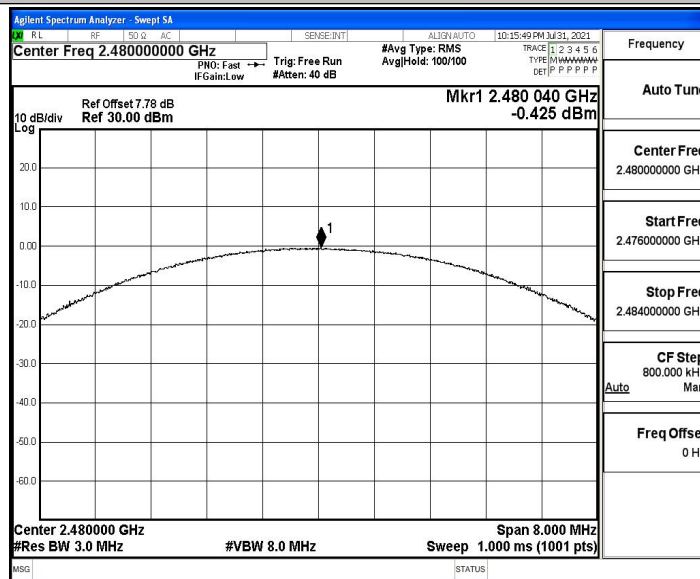


2DH5_Ant1_2441

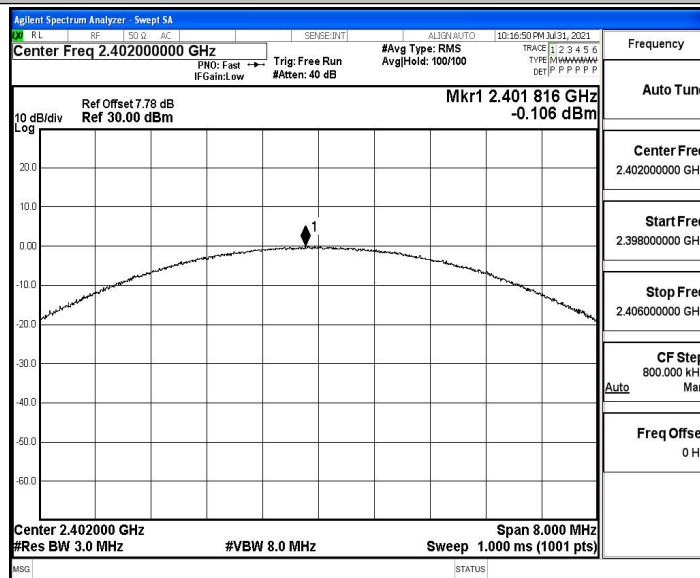




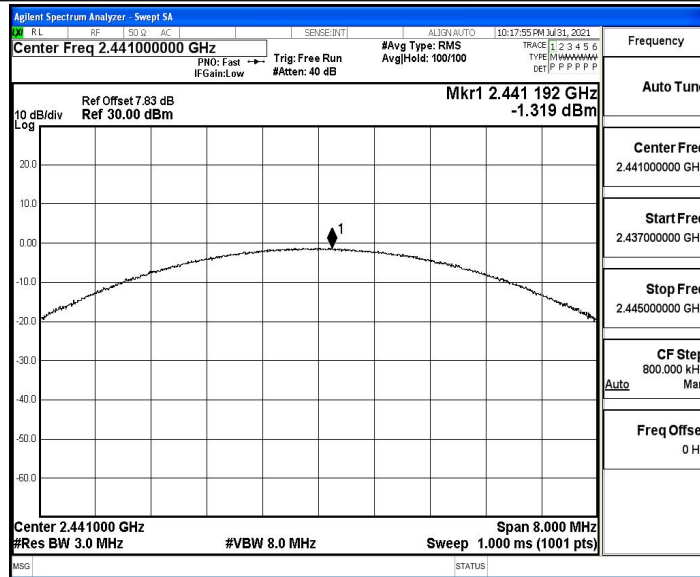
2DH5_Ant1_2480



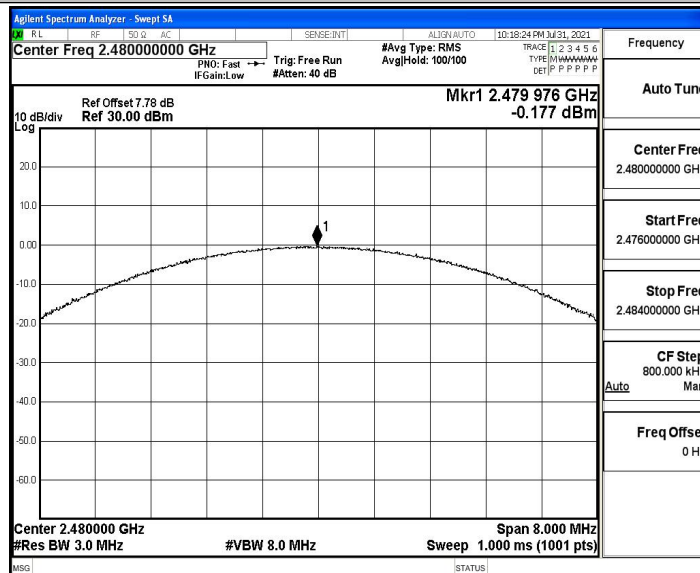
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





Appendix A.3: Carrier frequency separation

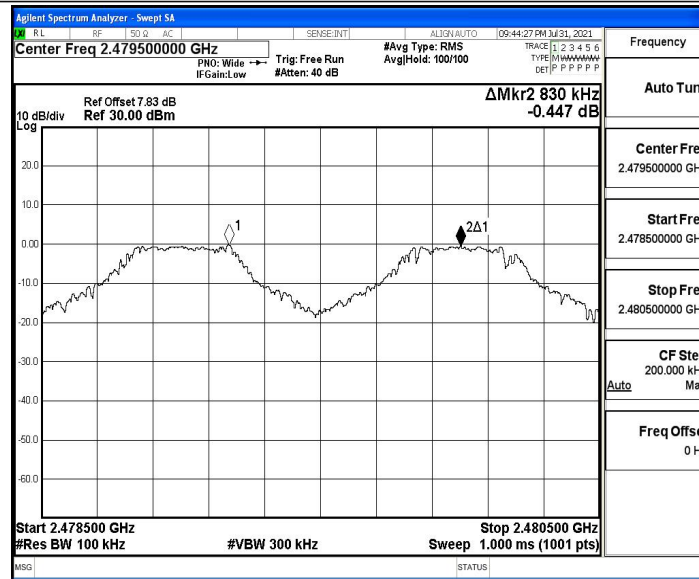
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.83	≥ 0.694	PASS
2DH5	Ant1	Hop	1.166	≥ 0.890	PASS
3DH5	Ant1	Hop	1.154	≥ 0.900	PASS

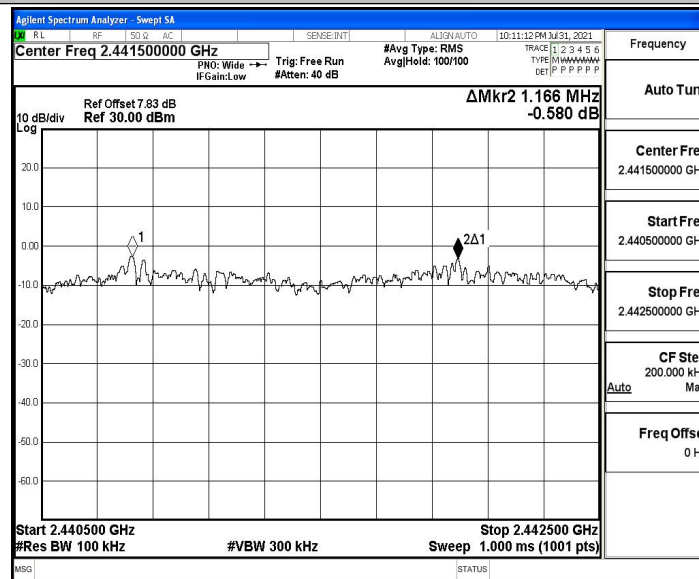


Test Graphs

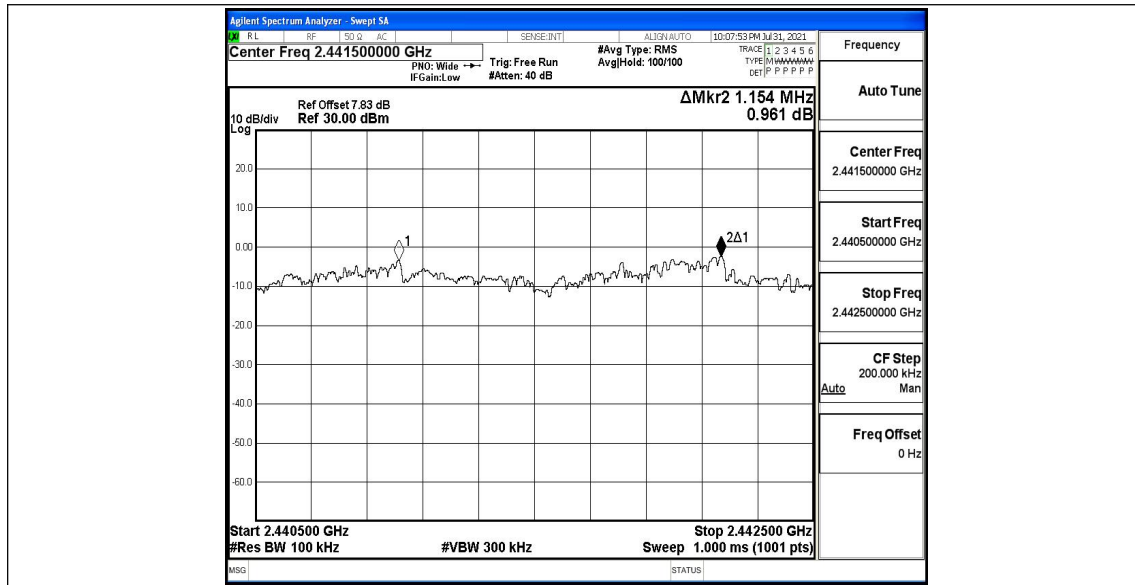
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





Appendix A.4: Time of occupancy

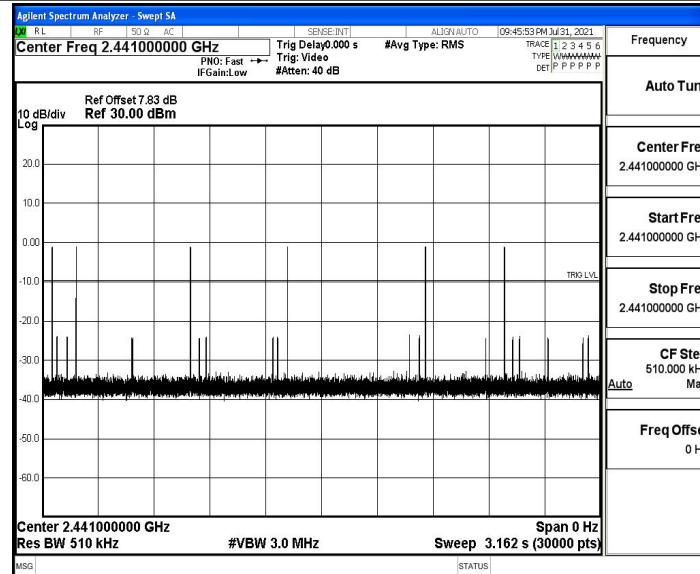
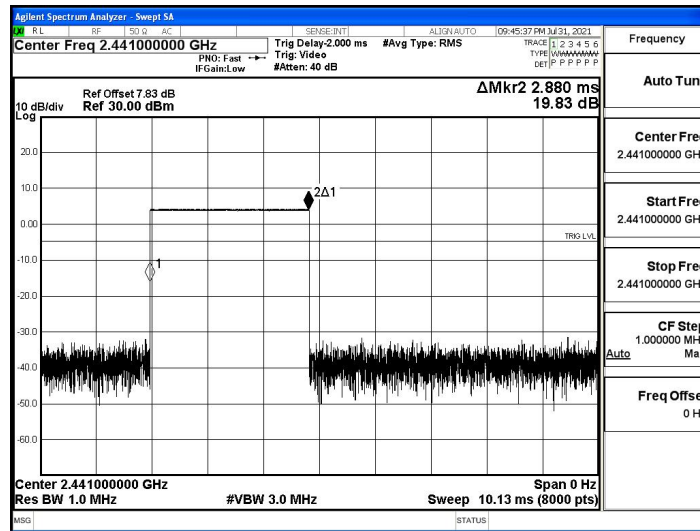
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	70	0.202	≤0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

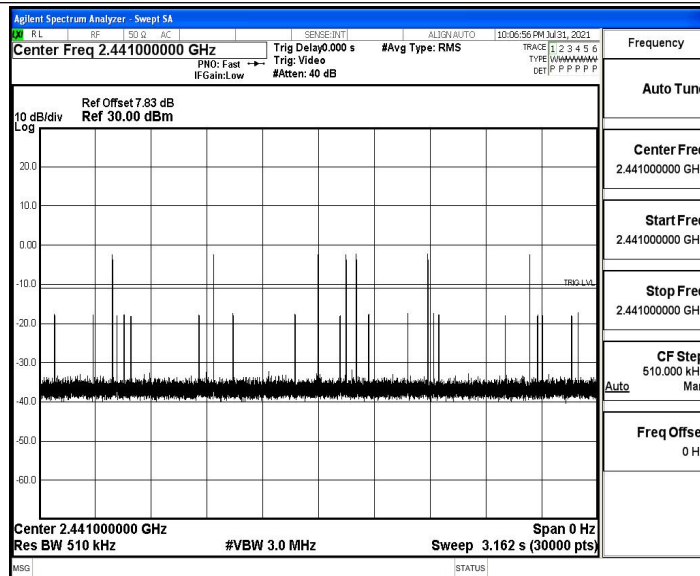
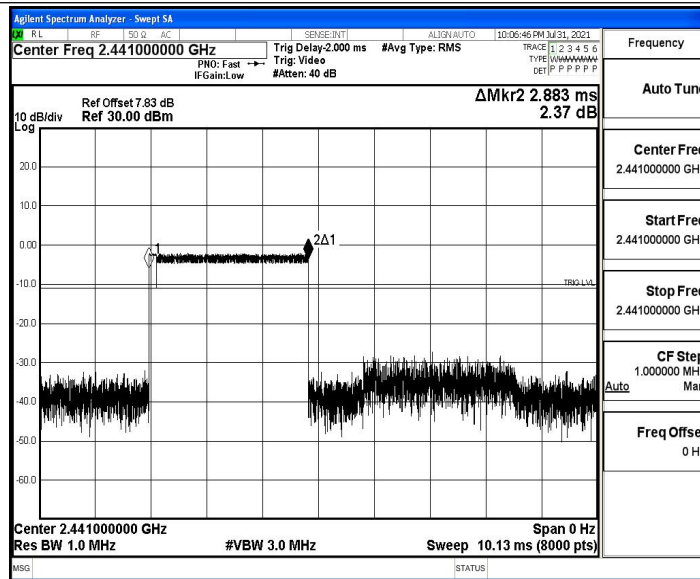


Test Graphs

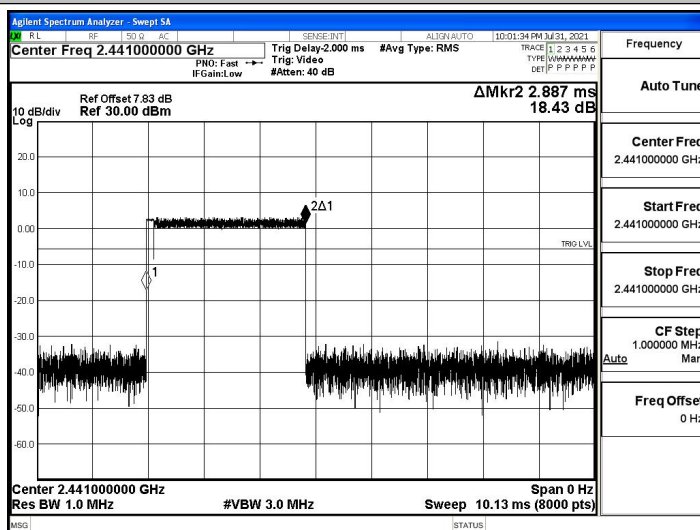
DH5_Ant1_Hop

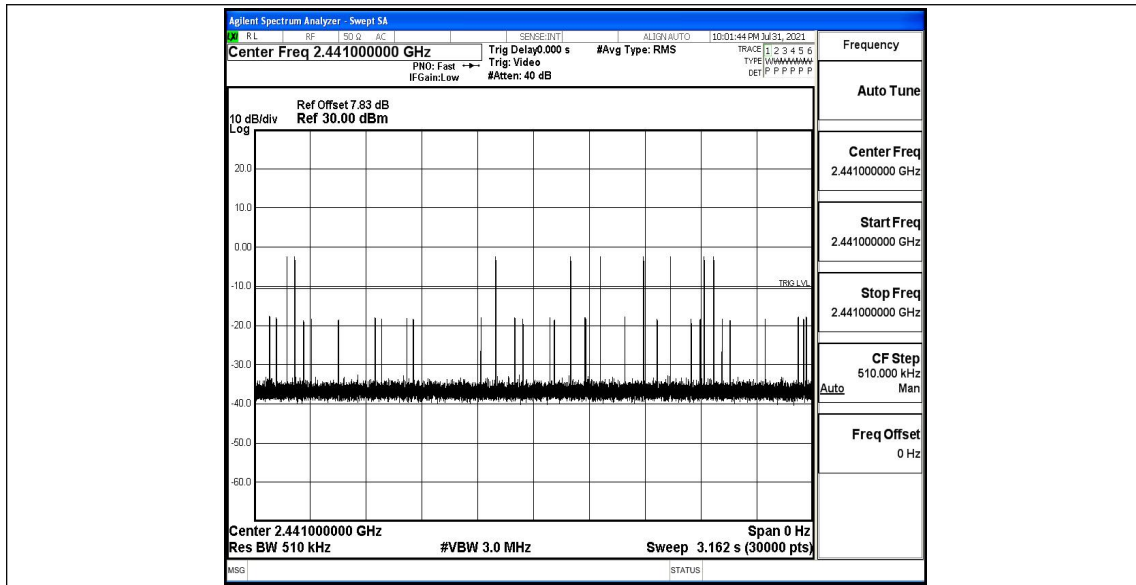


2DH5_Ant1_Hop



3DH5_Ant1_Hop







Appendix A.5: Number of hopping channels

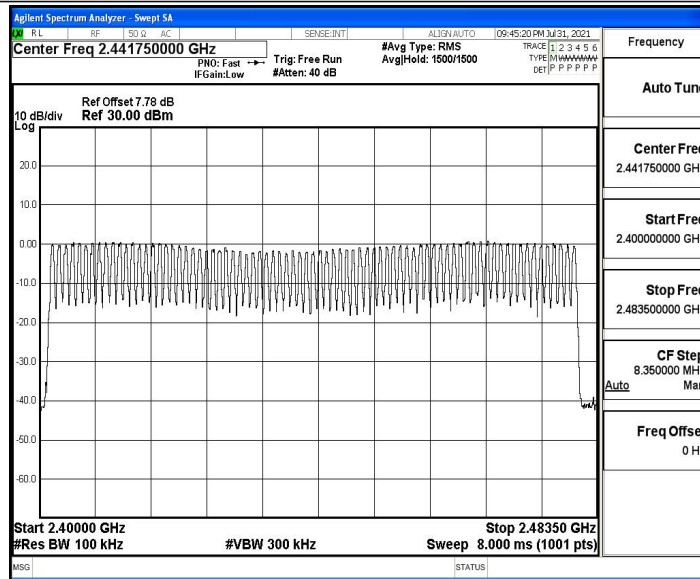
Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

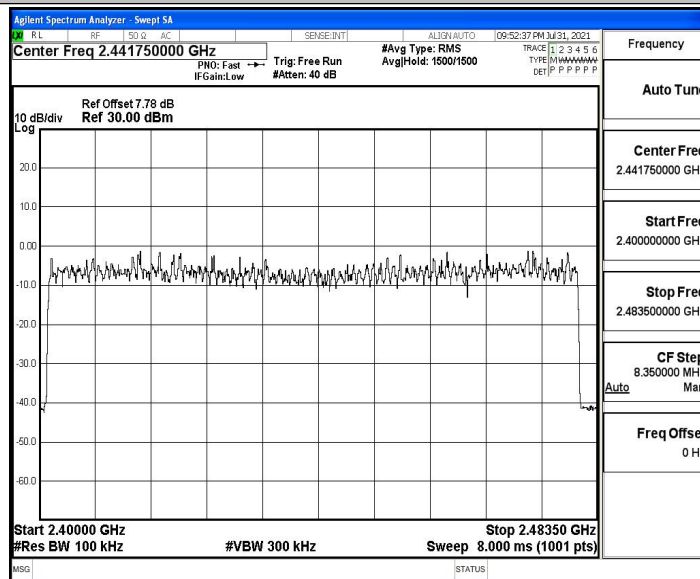


Test Graphs

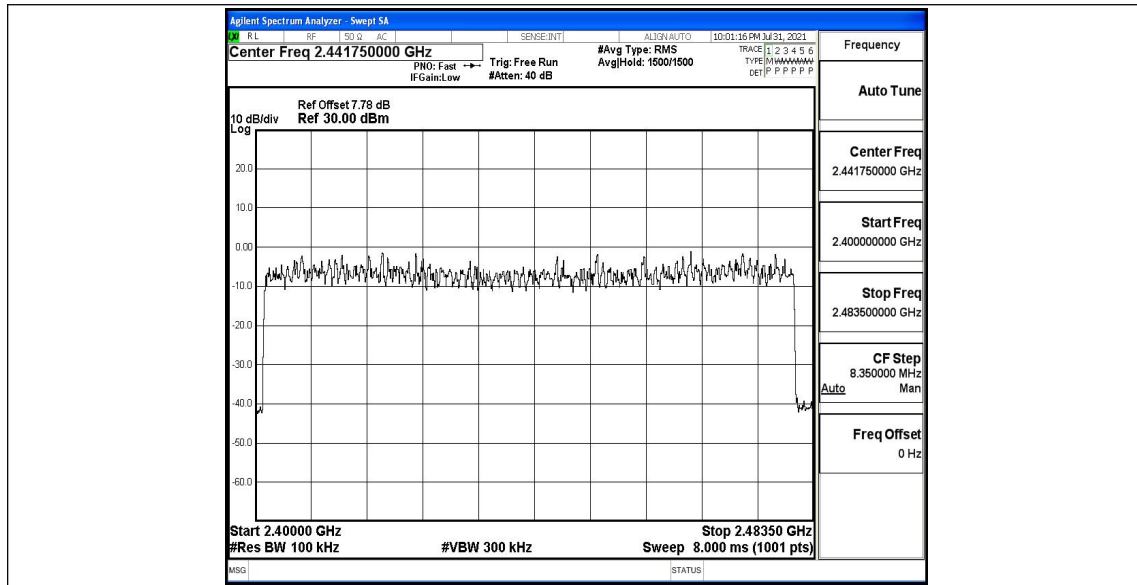
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





Appendix A.6: Band edge measurements

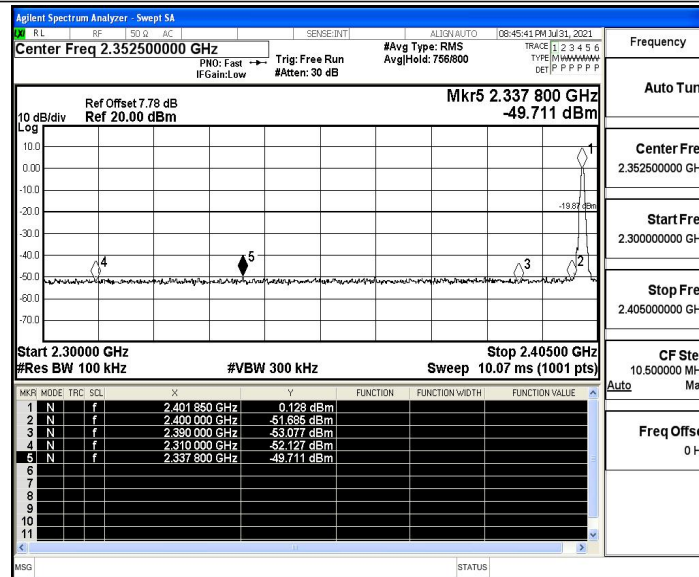
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.13	-49.71	≤ -19.87	PASS
		High	2480	-0.12	-48.76	≤ -20.12	PASS
		Low	Hop_2402	-0.07	-49.78	≤ -20.07	PASS
		High	Hop_2480	0.71	-48.87	≤ -19.29	PASS
2DH5	Ant1	Low	2402	-1.48	-49.39	≤ -21.48	PASS
		High	2480	-1.61	-48.37	≤ -21.61	PASS
		Low	Hop_2402	-3.94	-49.68	≤ -23.94	PASS
		High	Hop_2480	-1.68	-48.4	≤ -21.68	PASS
3DH5	Ant1	Low	2402	-2.63	-49.36	≤ -22.63	PASS
		High	2480	-1.40	-48.58	≤ -21.4	PASS
		Low	Hop_2402	-3.80	-49.84	≤ -23.8	PASS
		High	Hop_2480	-1.53	-49.41	≤ -21.53	PASS

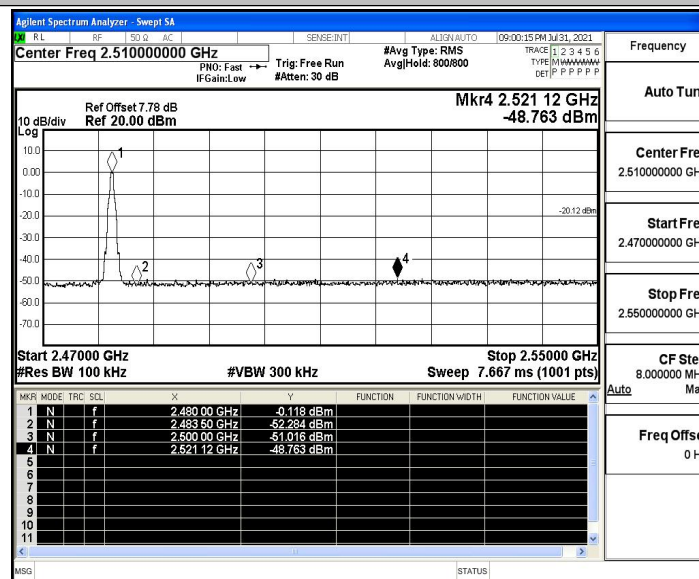


Test Graphs

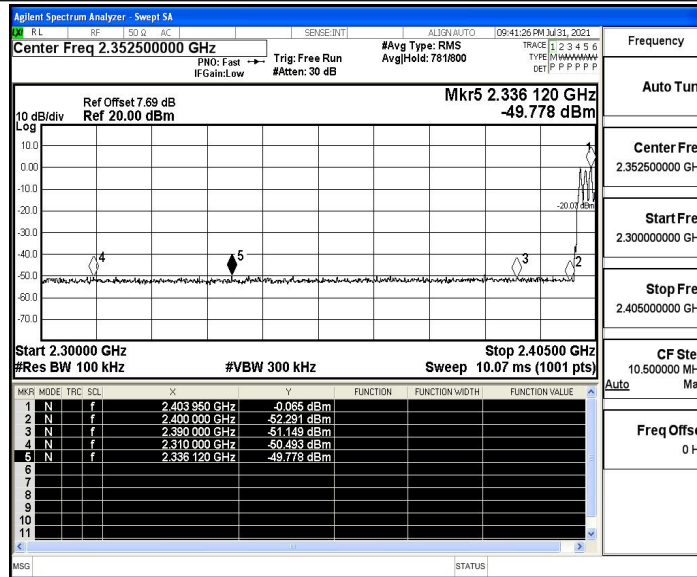
DH5_Ant1_Low_2402



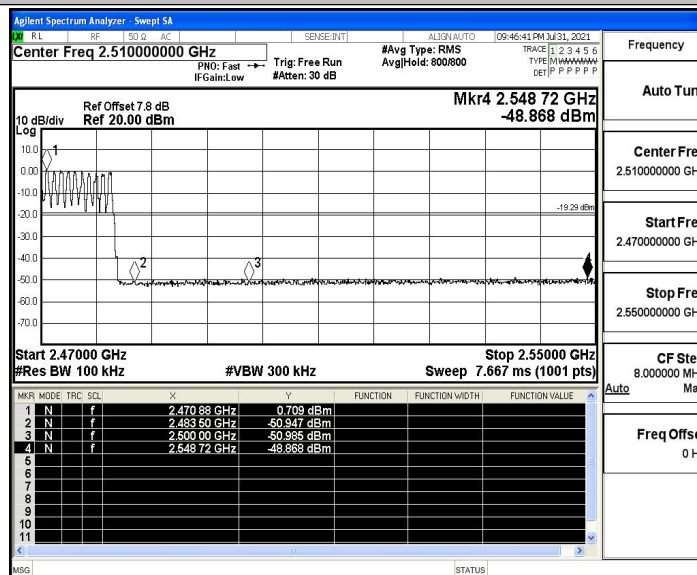
DH5_Ant1_High_2480



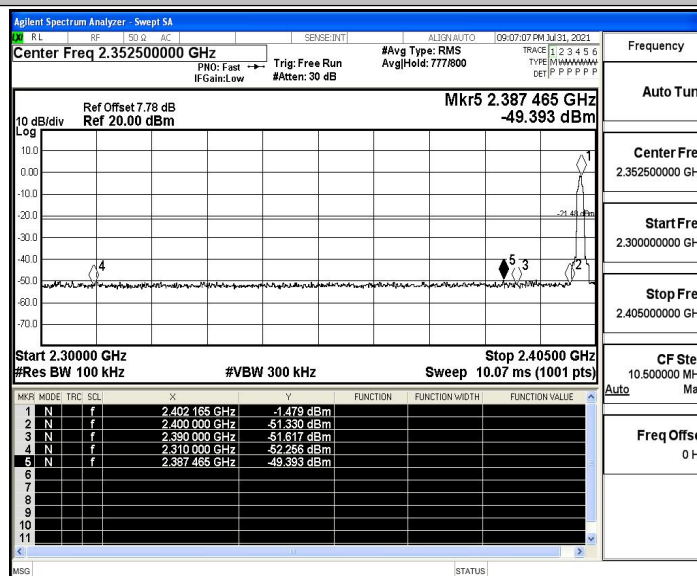
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

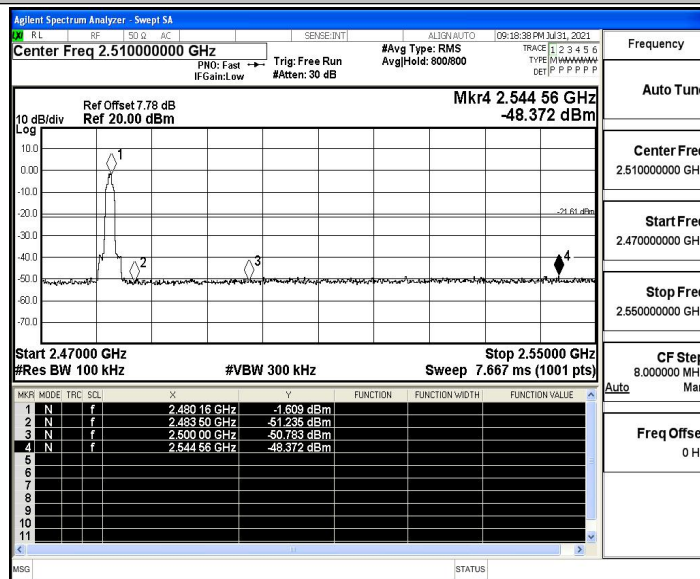


2DH5_Ant1_Low_2402

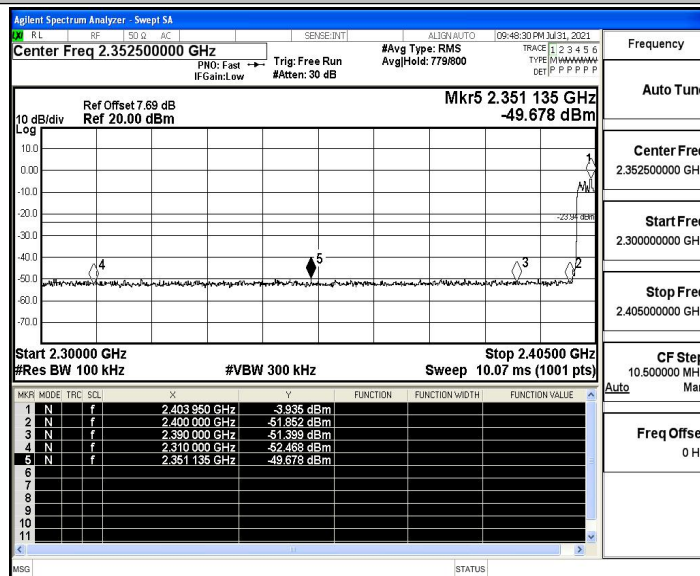




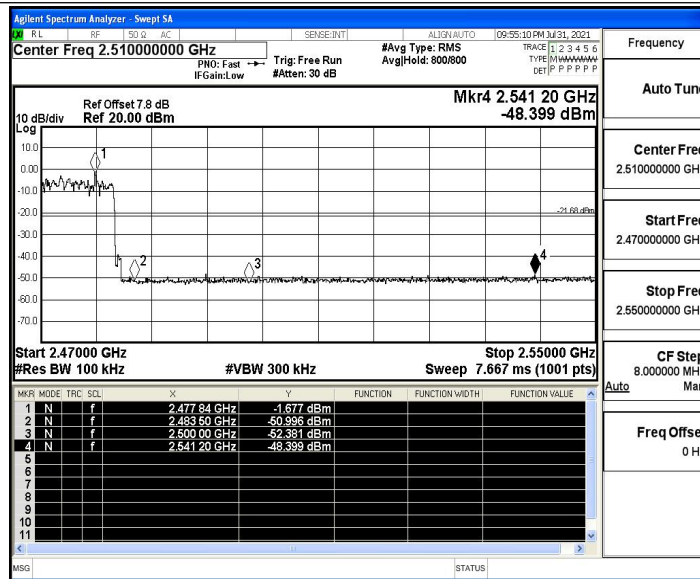
2DH5_Ant1_High_2480



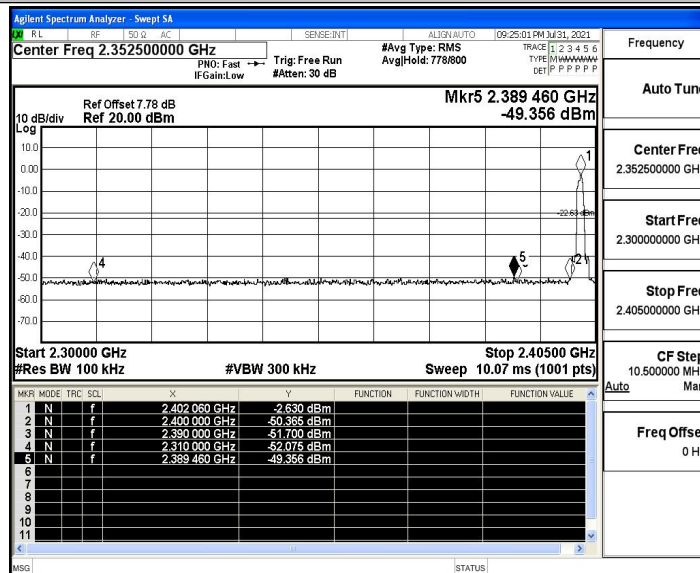
2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

