



Appendix A

RF Test Data for BT V5.2(DSS) (Conducted Measurement)

Product Name: Bluetooth Earphones

Trade Mark: SABBAT

Test Model: SABBAT X12pro

Environmental Conditions

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



A.1 20dB Emission Bandwidth

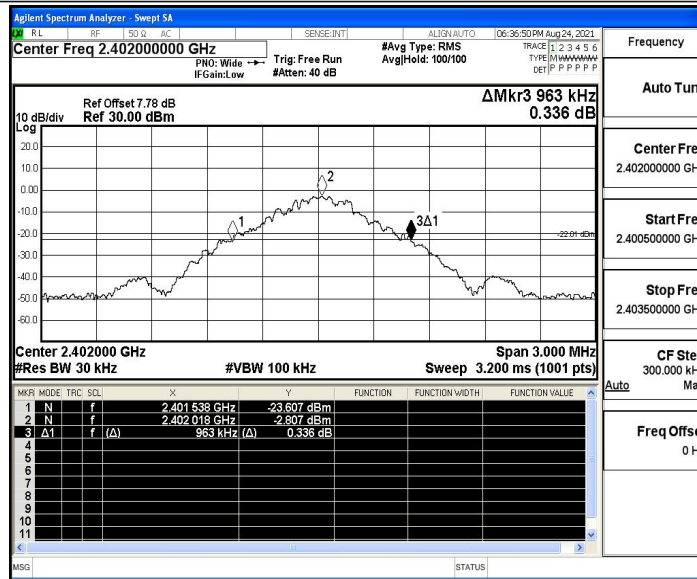
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.538	2402.501	---	PASS
		2441	0.945	2440.535	2441.480	---	PASS
		2480	1.032	2479.463	2480.495	---	PASS
2DH5	Ant1	2402	1.296	2401.364	2402.660	---	PASS
		2441	1.347	2440.328	2441.675	---	PASS
		2480	1.311	2479.340	2480.651	---	PASS
3DH5	Ant1	2402	1.296	2401.346	2402.642	---	PASS
		2441	1.305	2440.352	2441.657	---	PASS
		2480	1.323	2479.343	2480.666	---	PASS

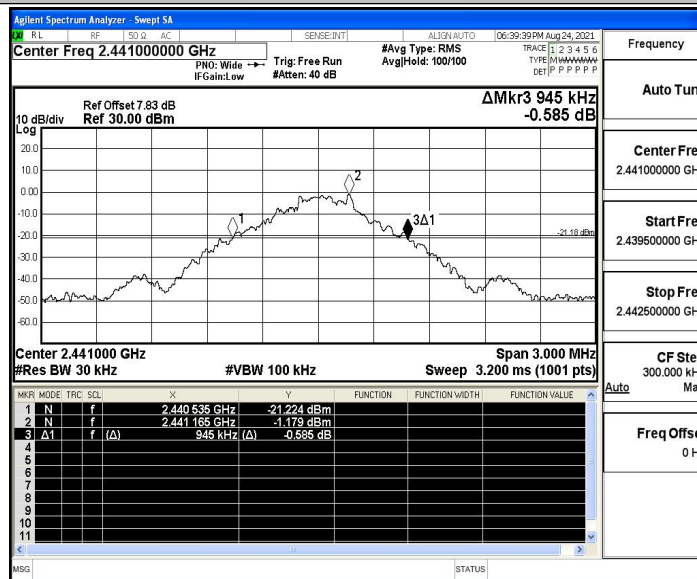


Test Graphs

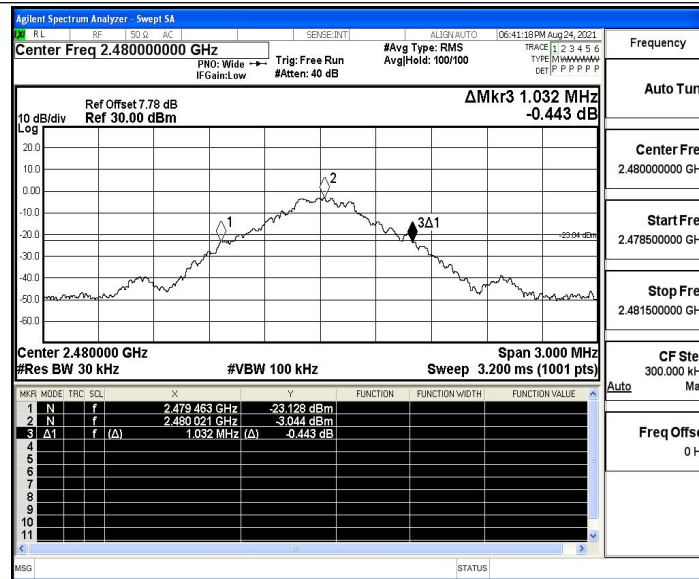
DH5_Ant1_2402



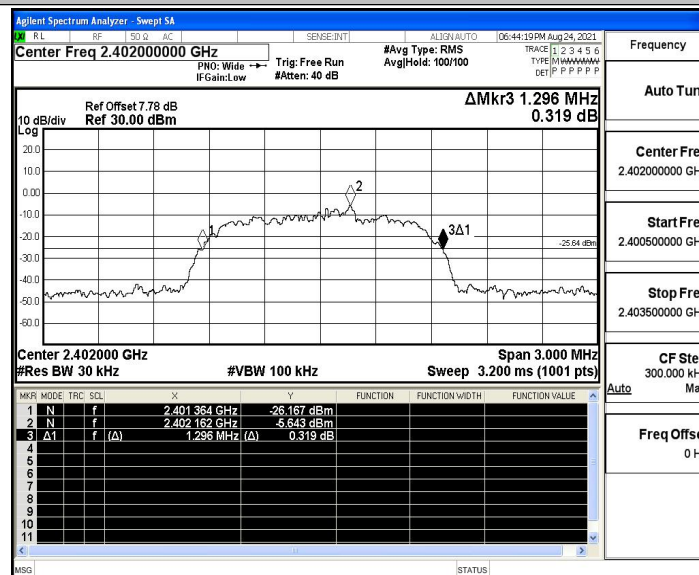
DH5_Ant1_2441



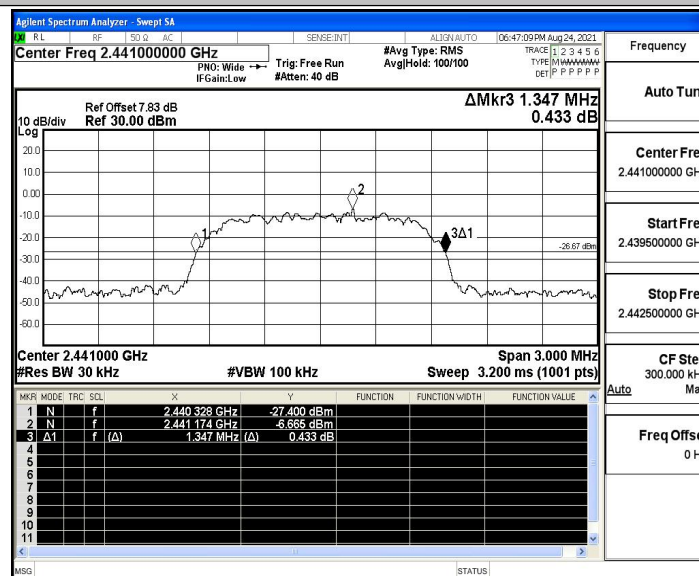
DH5_Ant1_2480



2DH5_Ant1_2402

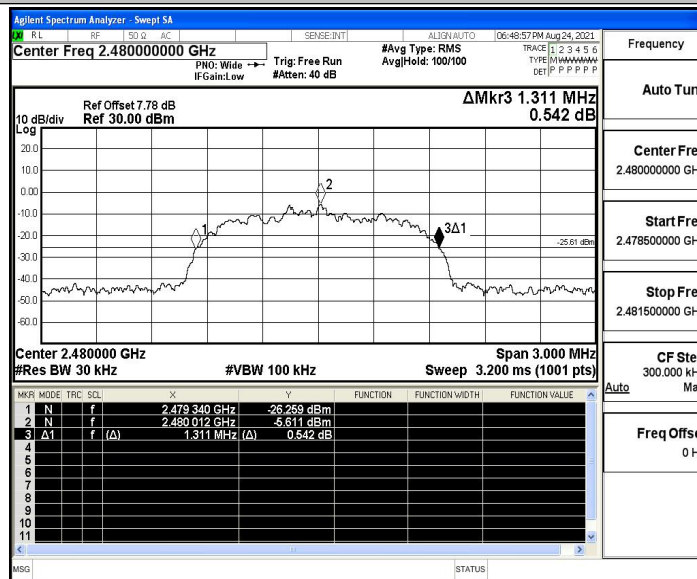


2DH5_Ant1_2441

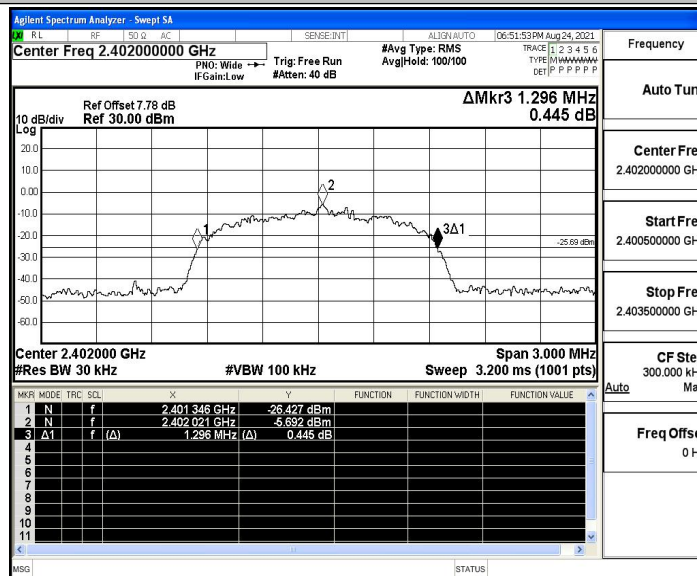




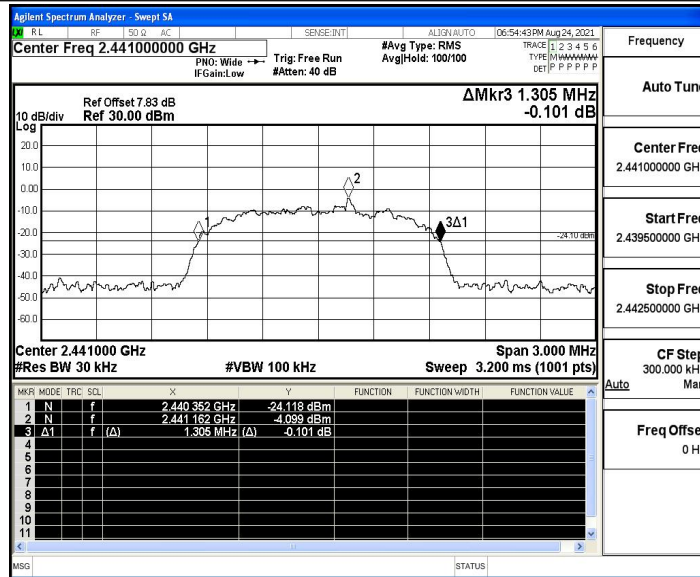
2DH5_Ant1_2480



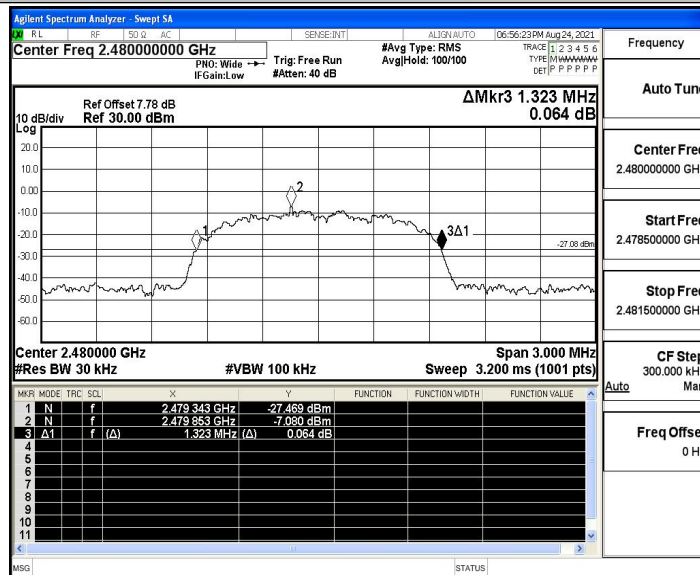
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum peak conducted output power

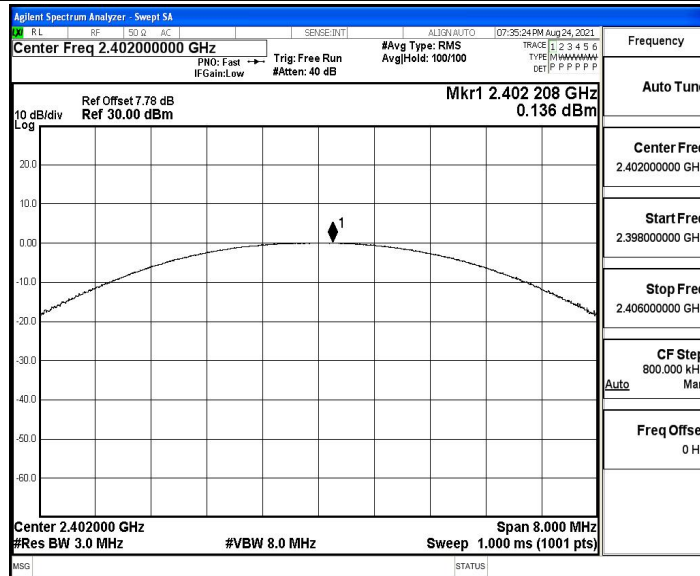
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.14	≤ 30	PASS
		2441	1.36	≤ 30	PASS
		2480	0	≤ 30	PASS
2DH5	Ant1	2402	-0.92	≤ 20.97	PASS
		2441	0.37	≤ 20.97	PASS
		2480	-0.85	≤ 20.97	PASS
3DH5	Ant1	2402	-0.63	≤ 20.97	PASS
		2441	0.59	≤ 20.97	PASS
		2480	-0.7	≤ 20.97	PASS

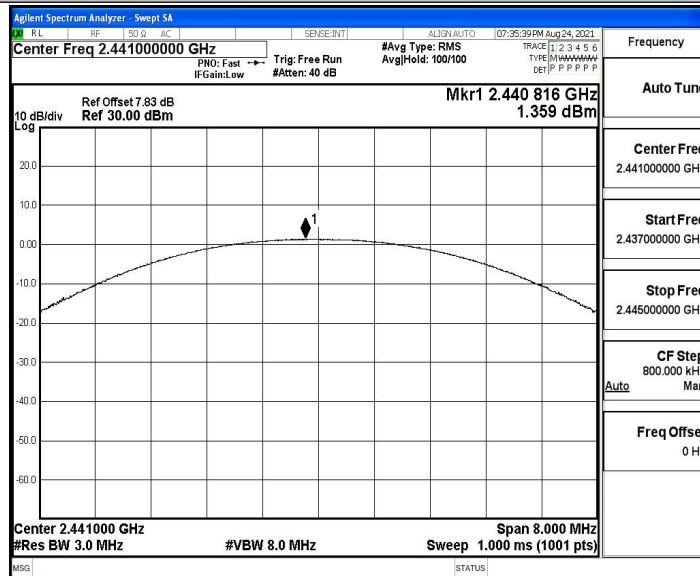


Test Graphs

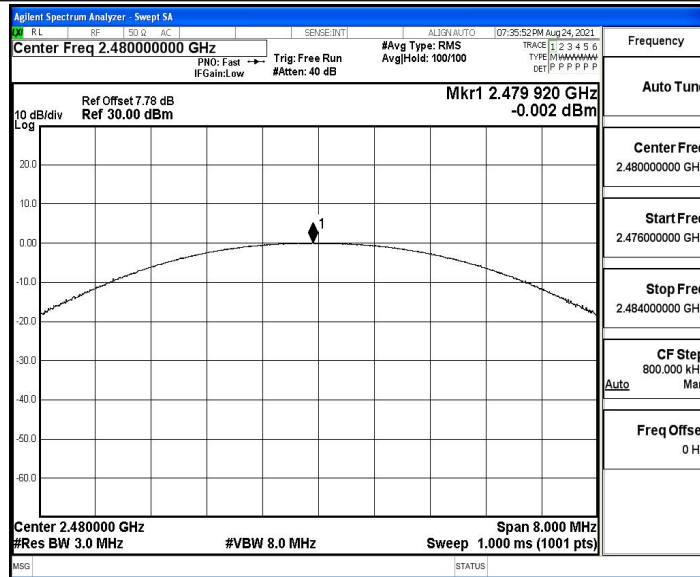
DH5_Ant1_2402



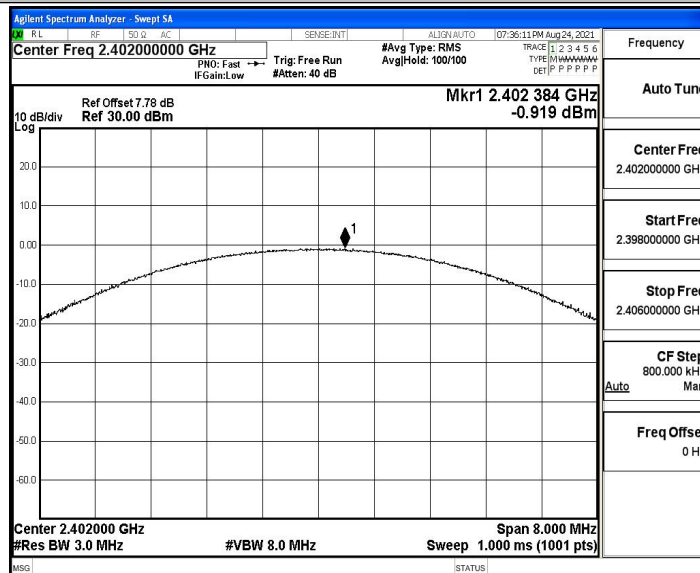
DH5_Ant1_2441



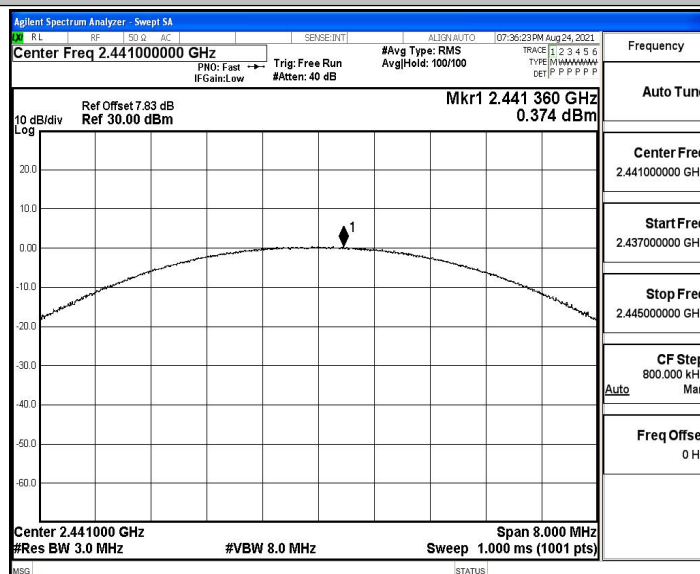
DH5_Ant1_2480



2DH5_Ant1_2402

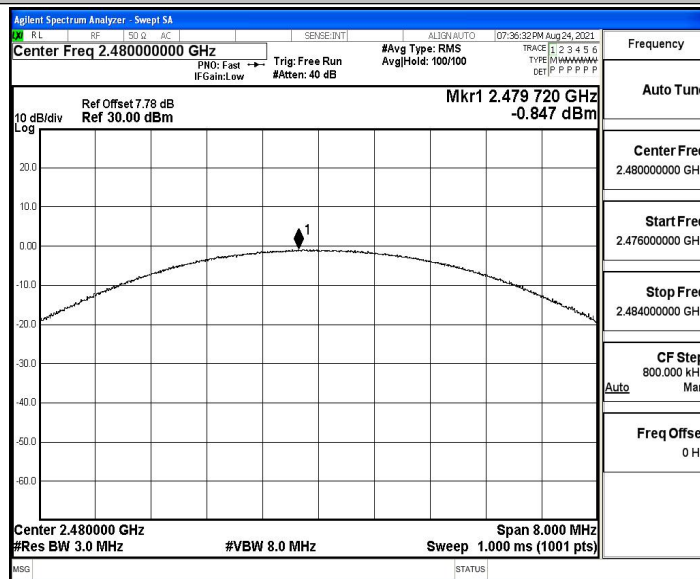


2DH5_Ant1_2441

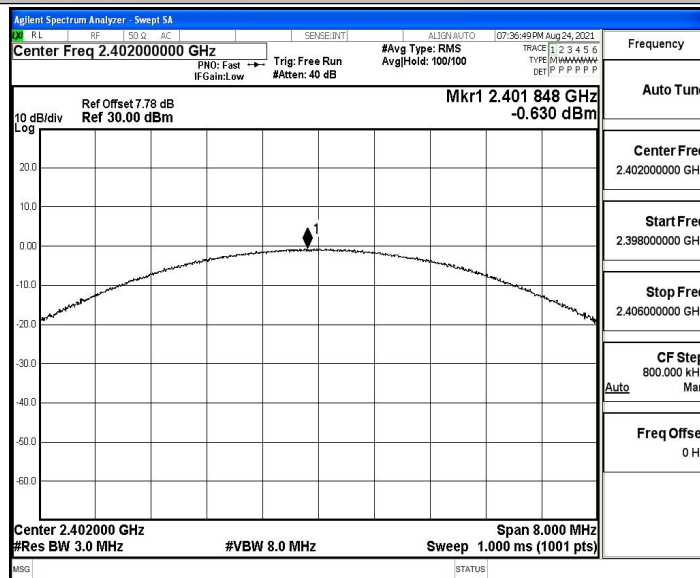




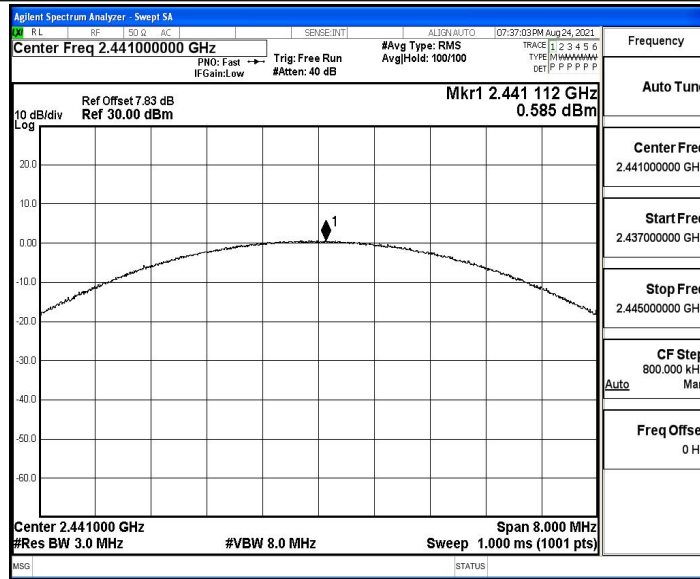
2DH5_Ant1_2480



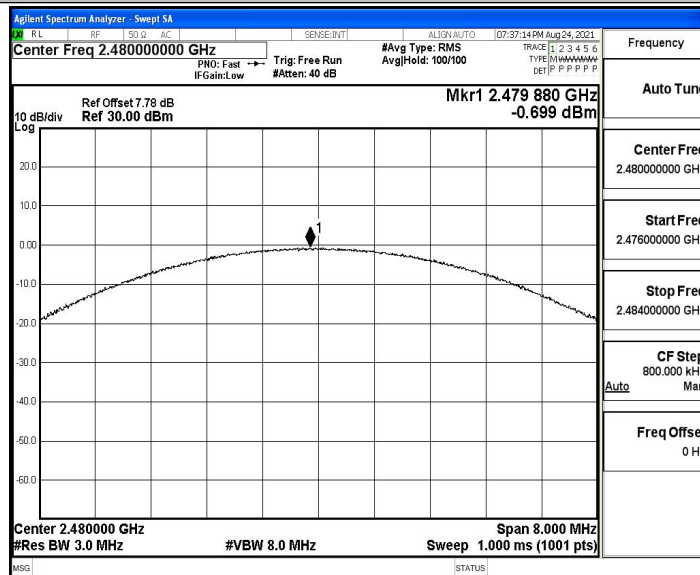
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

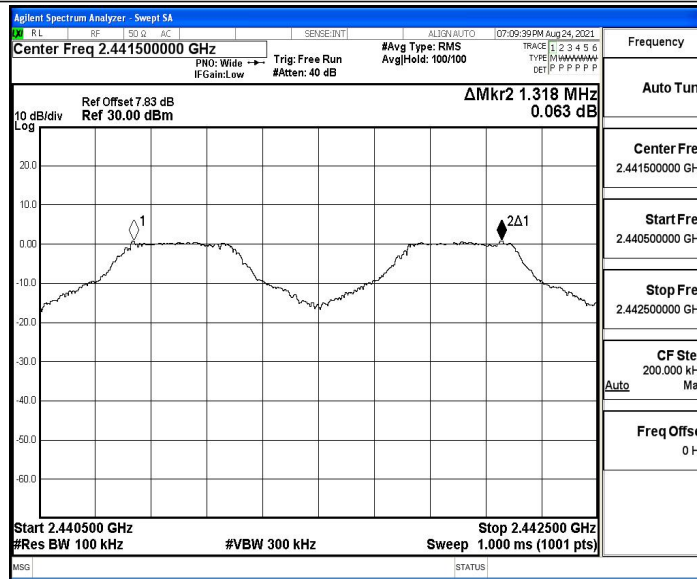
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.318	≥ 1.032	PASS
2DH5	Ant1	Hop	1.184	≥ 0.898	PASS
3DH5	Ant1	Hop	1.102	≥ 0.882	PASS

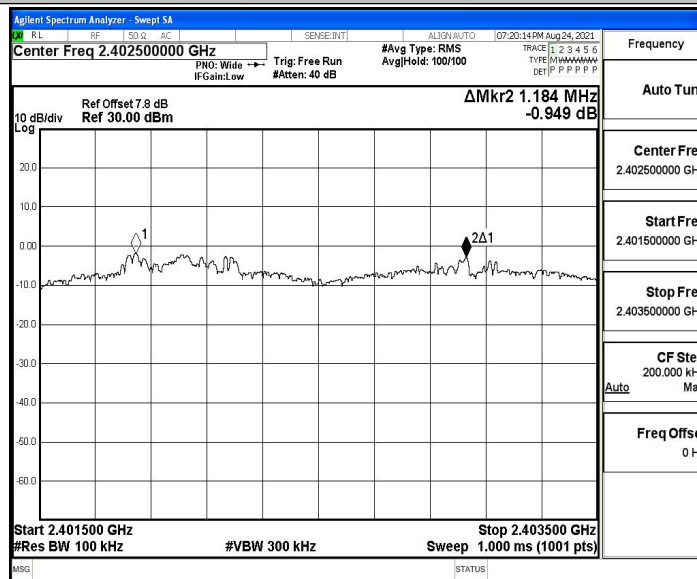


Test Graphs

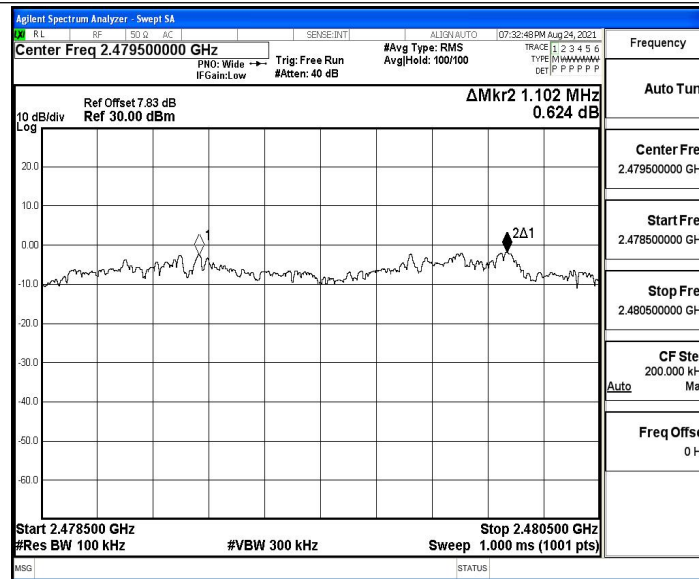
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.4 Time of occupancy

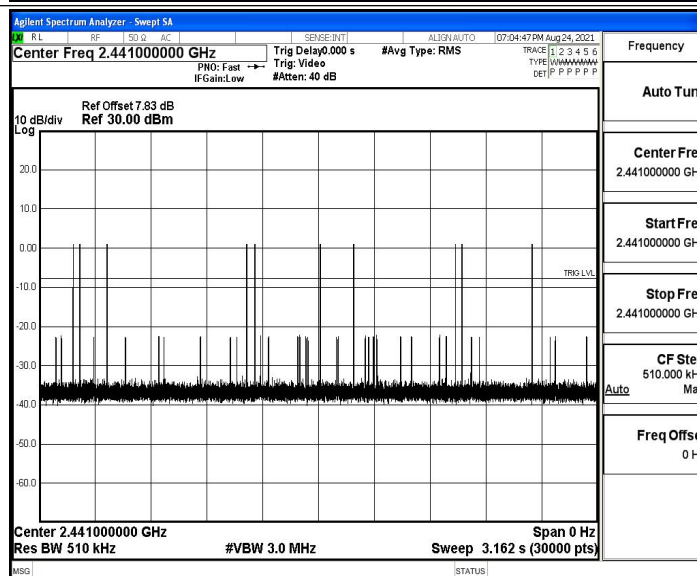
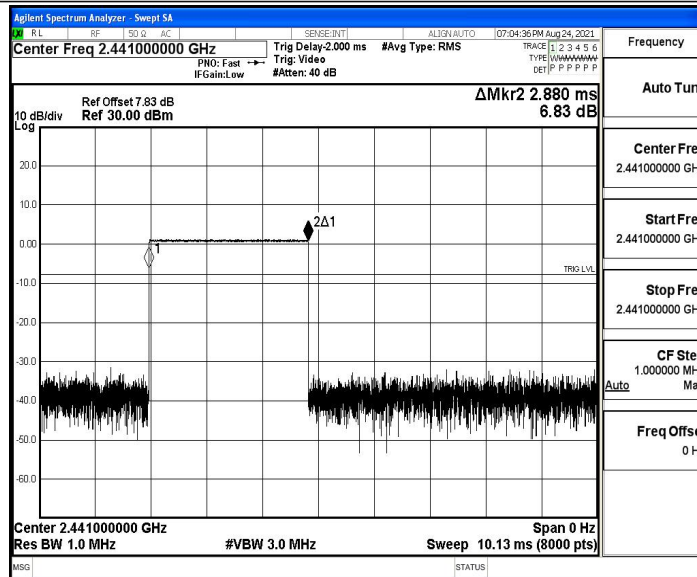
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.89	60	0.173	≤0.4	PASS

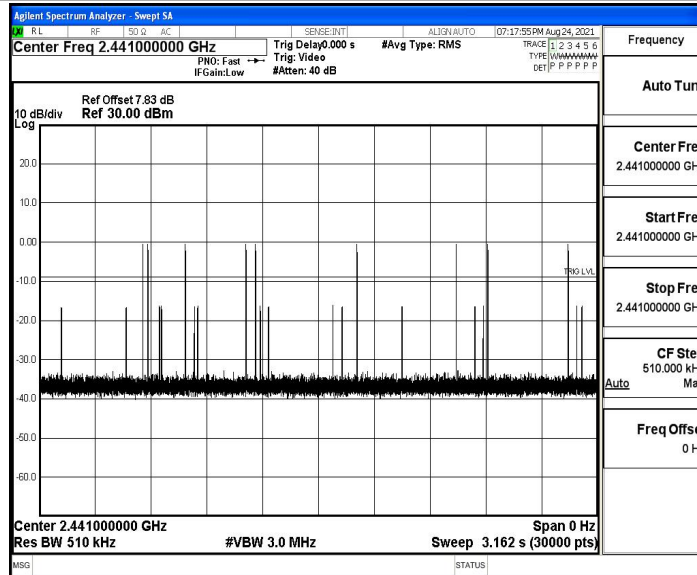
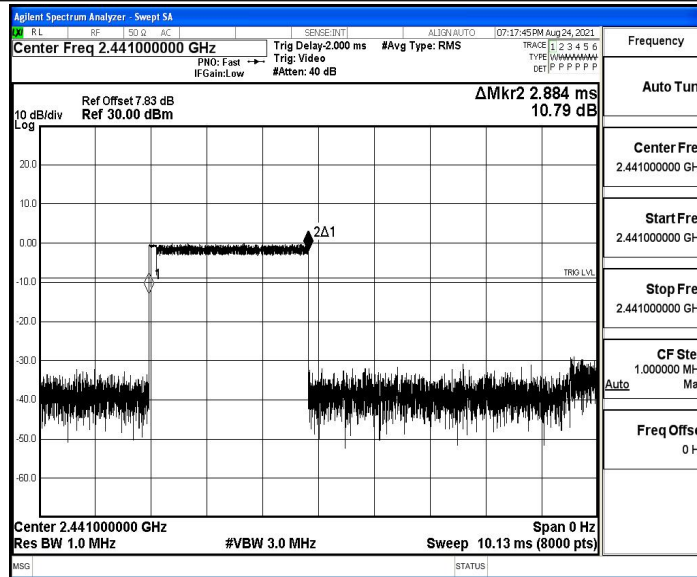


Test Graphs

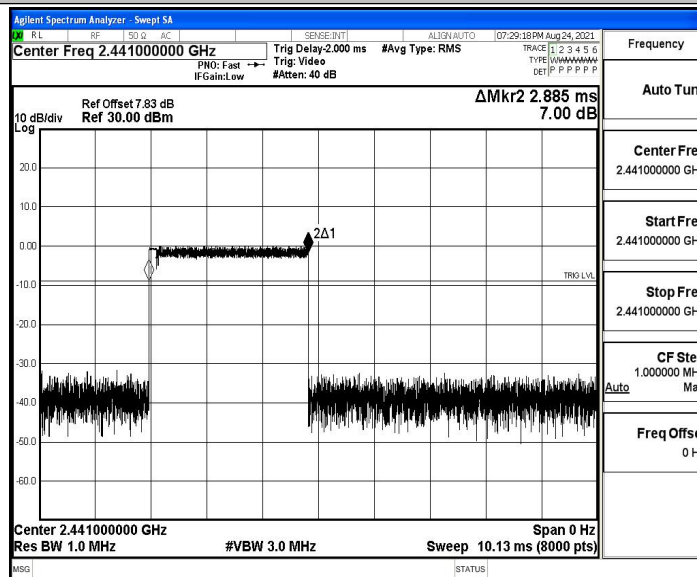
DH5_Ant1_Hop

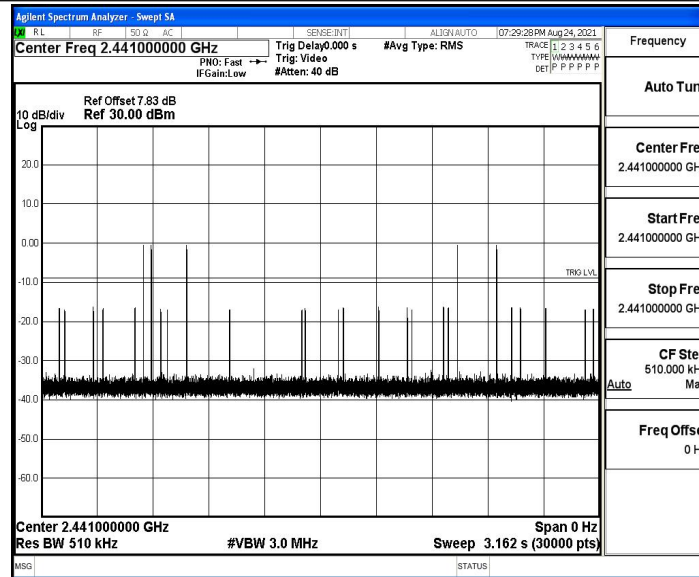


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

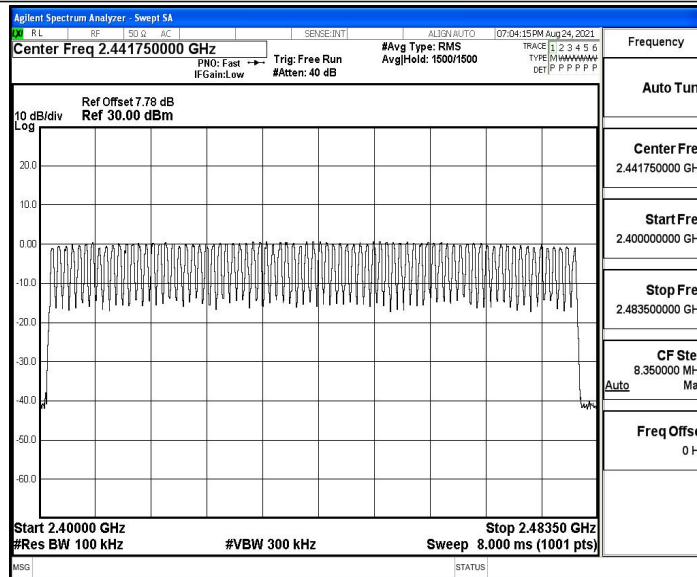
Test Result

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

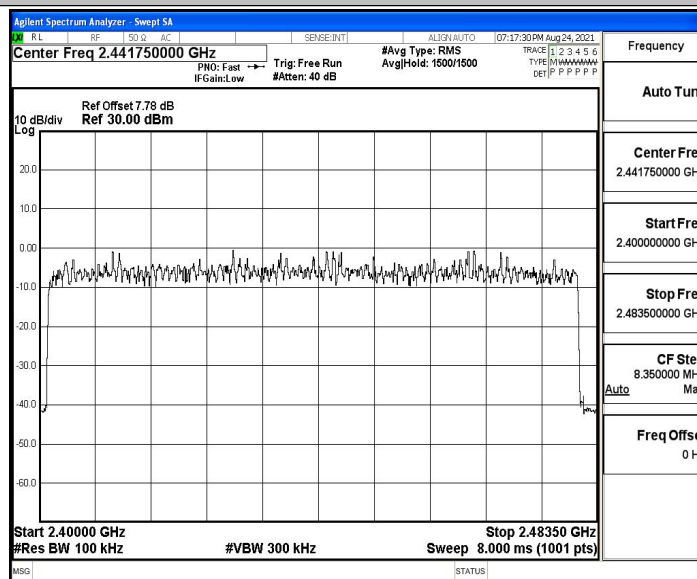


Test Graphs

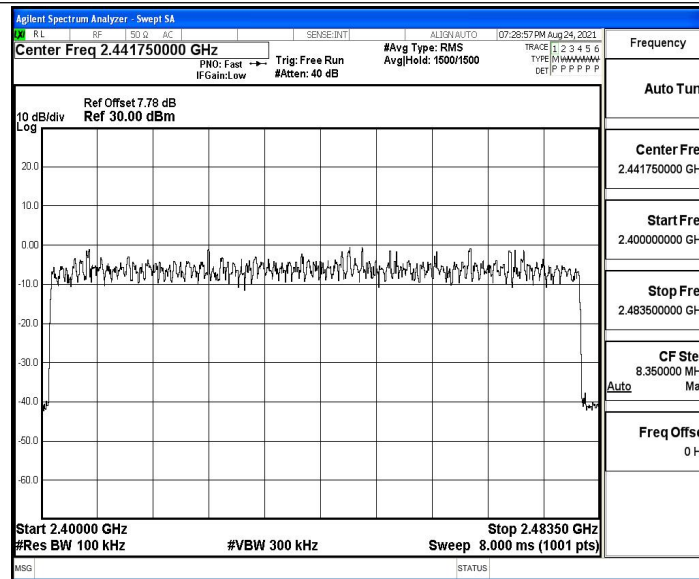
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

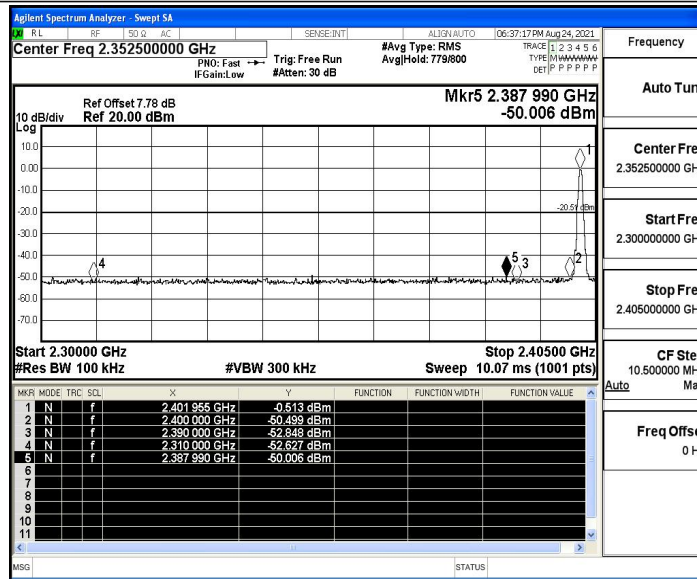
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.51	-50.01	≤ -20.51	PASS
		High	2480	-0.41	-48.79	≤ -20.41	PASS
		Low	Hop_2402	-0.44	-50.26	≤ -20.44	PASS
		High	Hop_2480	-0.29	-48.41	≤ -20.29	PASS
2DH5	Ant1	Low	2402	-1.76	-49.79	≤ -21.76	PASS
		High	2480	-1.70	-48.28	≤ -21.7	PASS
		Low	Hop_2402	-5.33	-49.44	≤ -25.33	PASS
		High	Hop_2480	-2.54	-48.42	≤ -22.54	PASS
3DH5	Ant1	Low	2402	-1.76	-49.22	≤ -21.76	PASS
		High	2480	-1.84	-48.78	≤ -21.84	PASS
		Low	Hop_2402	-5.06	-48.99	≤ -25.06	PASS
		High	Hop_2480	-1.38	-48.16	≤ -21.38	PASS

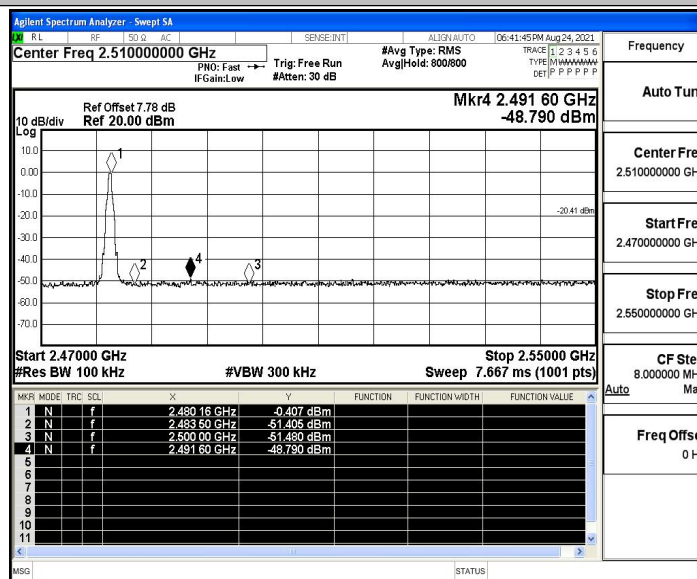


Test Graphs

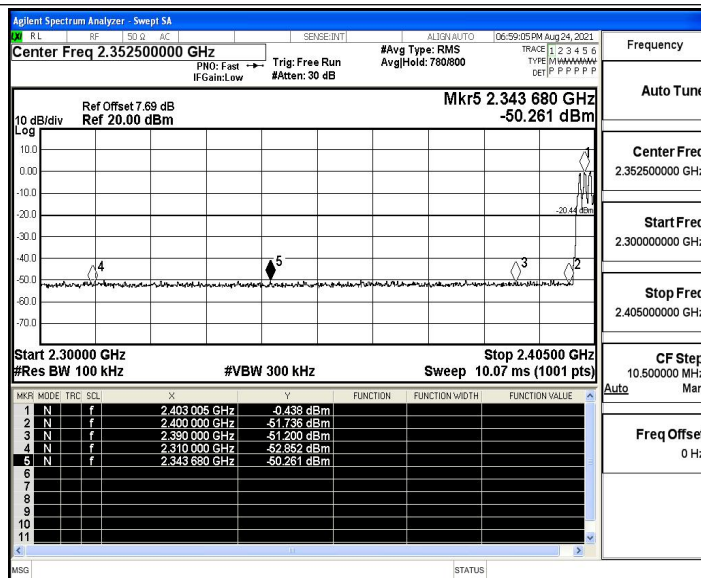
DH5_Ant1_Low_2402



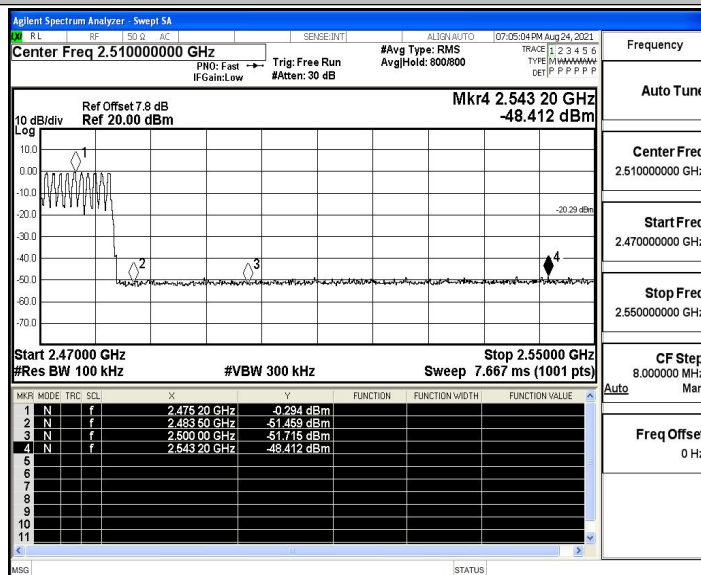
DH5_Ant1_High_2480



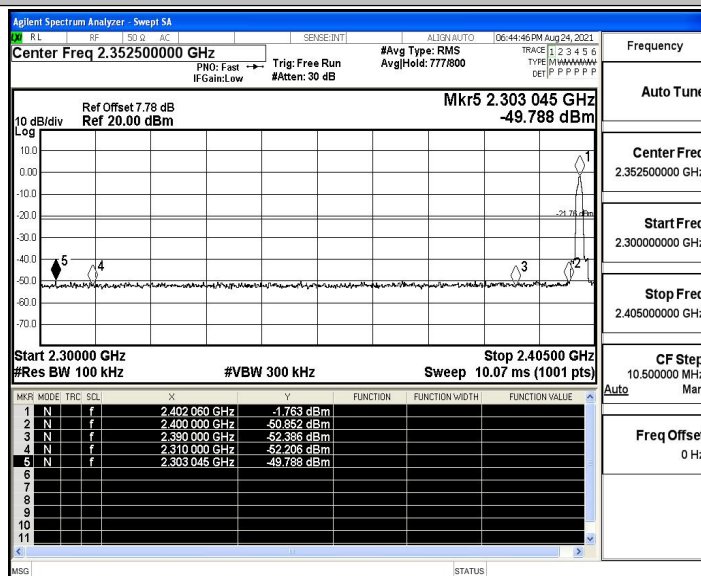
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

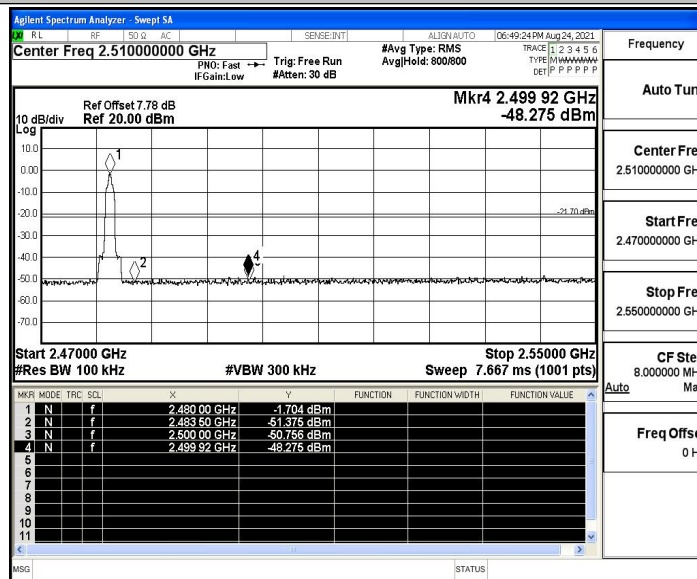


2DH5_Ant1_Low_2402

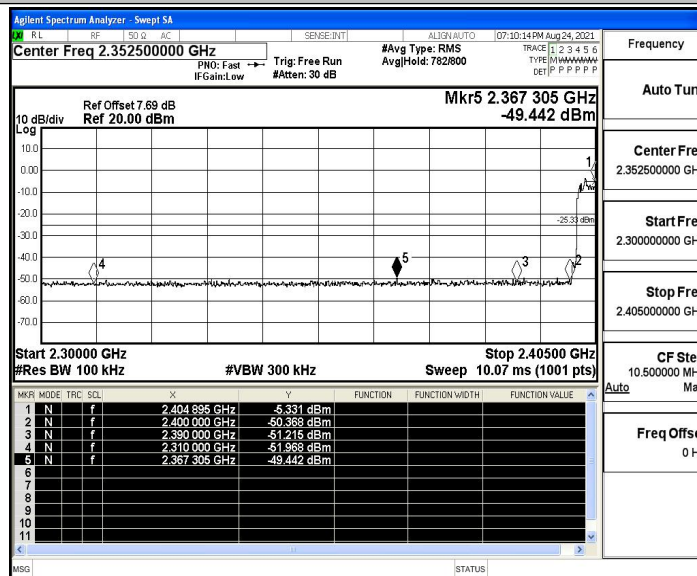




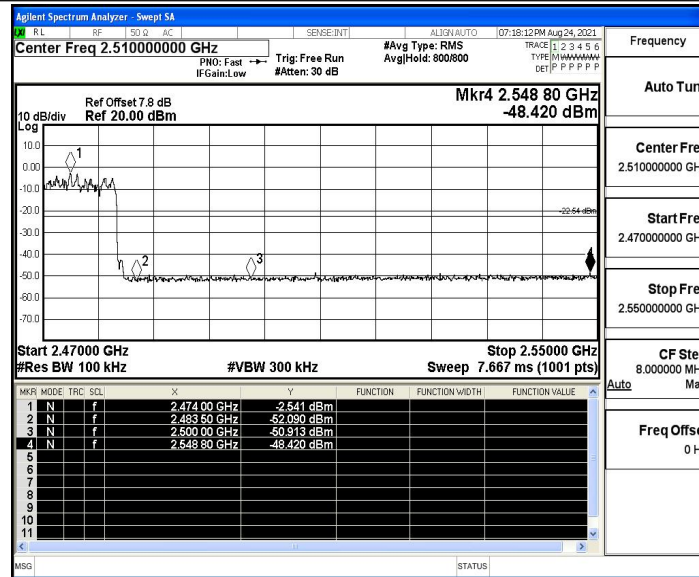
2DH5_Ant1_High_2480



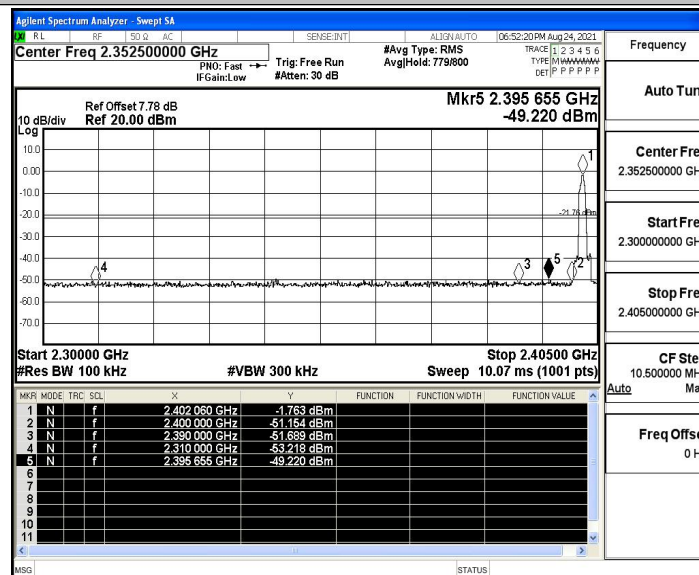
2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

