



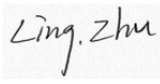
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart POS

Test Model: WIZARPOS Q2

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



A.1 20dB Emission Bandwidth

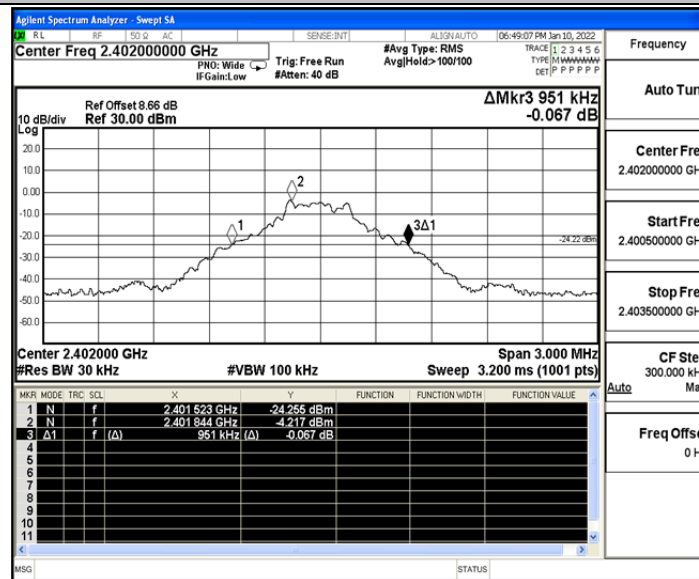
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.523	2402.474	---	---
		2441	0.957	2440.517	2441.474	---	---
		2480	0.939	2479.529	2480.468	---	---
2DH5	Ant1	2402	1.248	2401.355	2402.603	---	---
		2441	1.251	2440.355	2441.606	---	---
		2480	1.263	2479.355	2480.618	---	---
3DH5	Ant1	2402	1.281	2401.340	2402.621	---	---
		2441	1.275	2440.343	2441.618	---	---
		2480	1.323	2479.325	2480.648	---	---

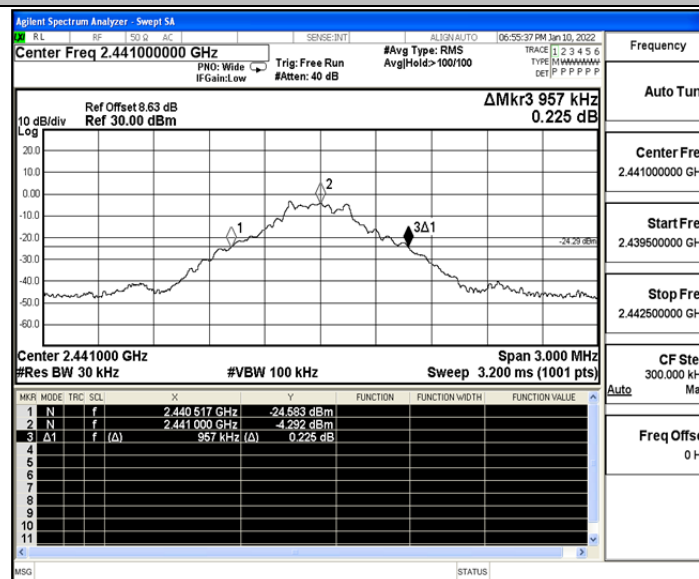


Test Graphs

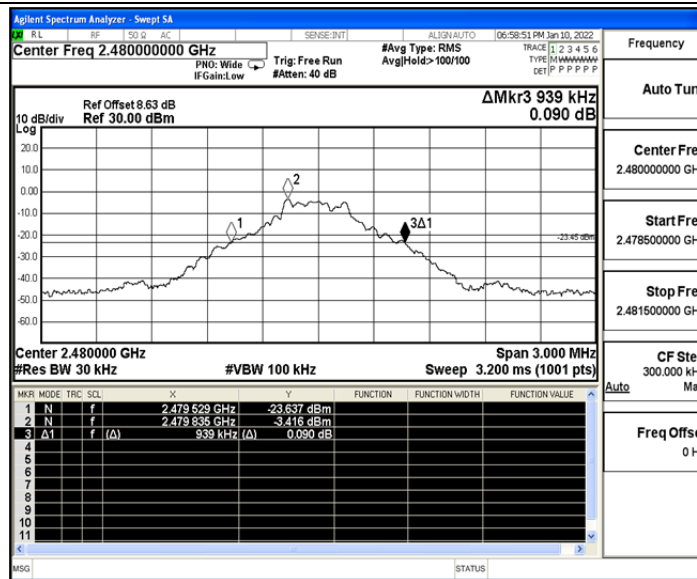
DH5_Ant1_2402



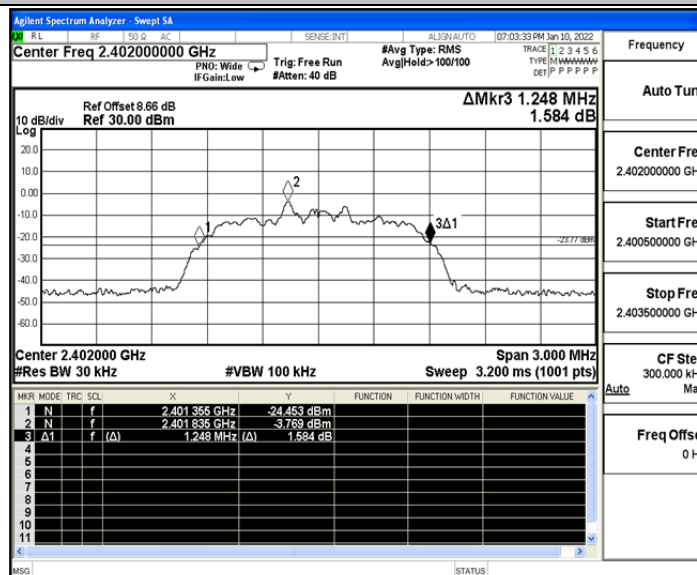
DH5_Ant1_2441



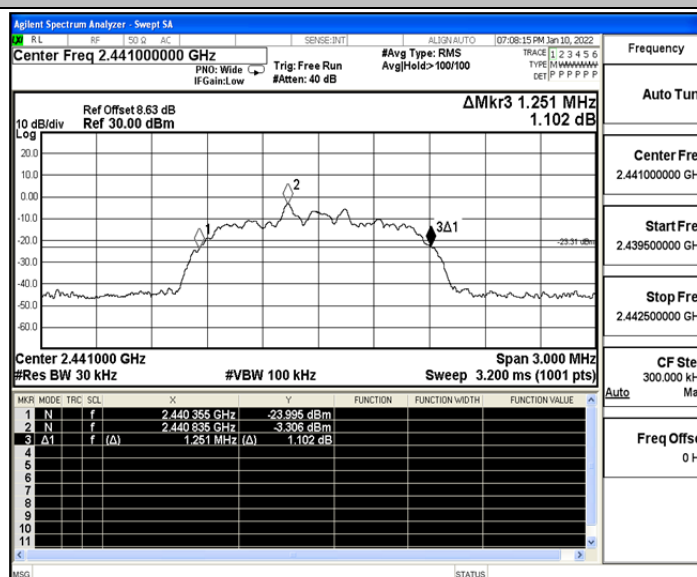
DH5_Ant1_2480



2DH5_Ant1_2402

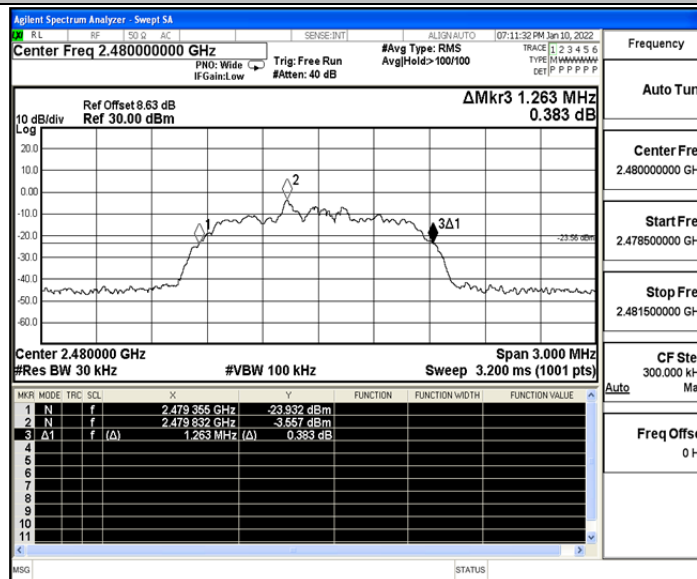


2DH5_Ant1_2441

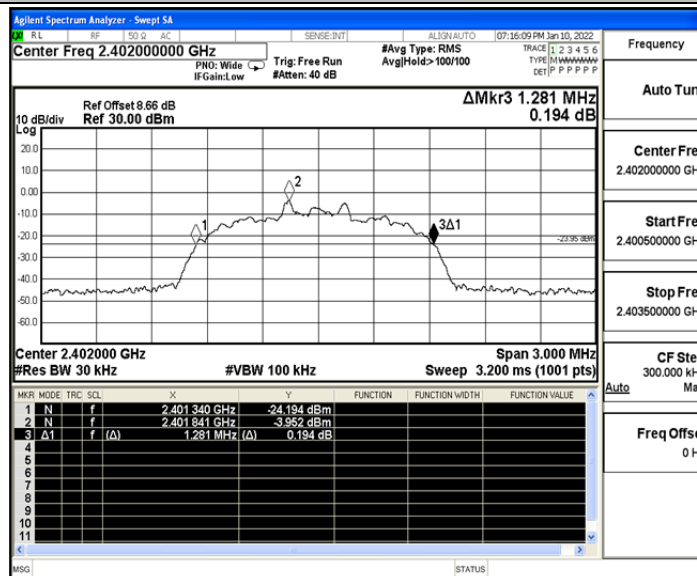




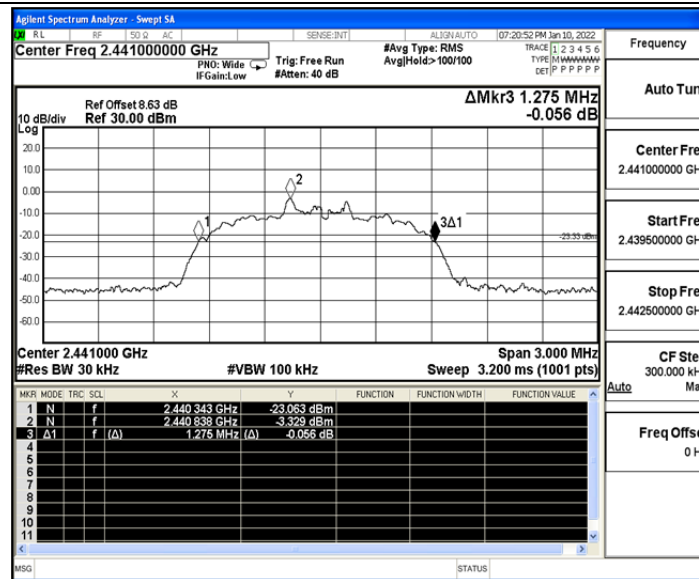
2DH5_Ant1_2480



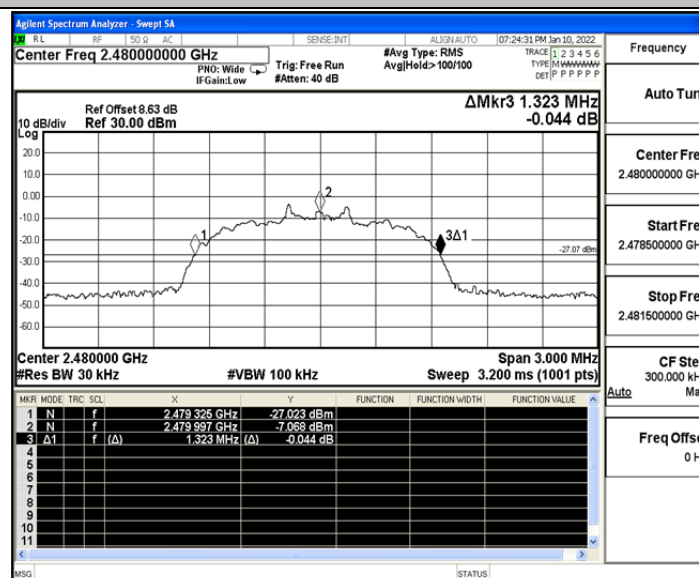
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum peak conducted output power

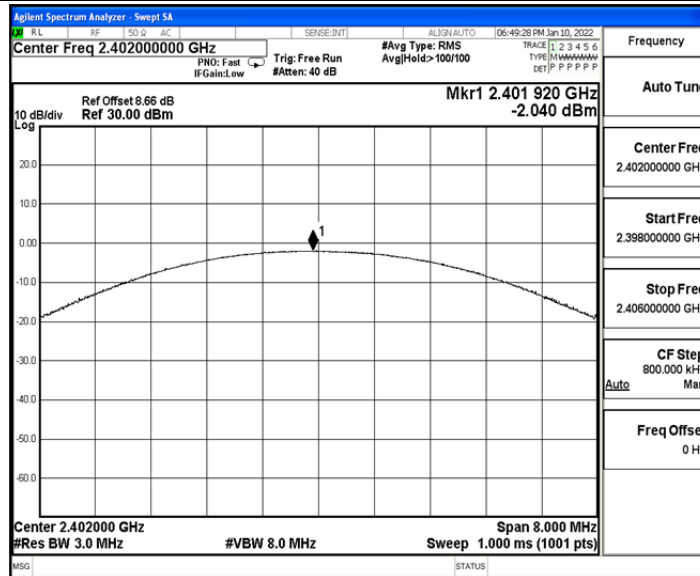
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.04	≤ 20.97	PASS
		2441	-1.66	≤ 20.97	PASS
		2480	-1.76	≤ 20.97	PASS
2DH5	Ant1	2402	-1.44	≤ 20.97	PASS
		2441	-1.01	≤ 20.97	PASS
		2480	-1.17	≤ 20.97	PASS
3DH5	Ant1	2402	-0.85	≤ 20.97	PASS
		2441	-0.61	≤ 20.97	PASS
		2480	-0.74	≤ 20.97	PASS

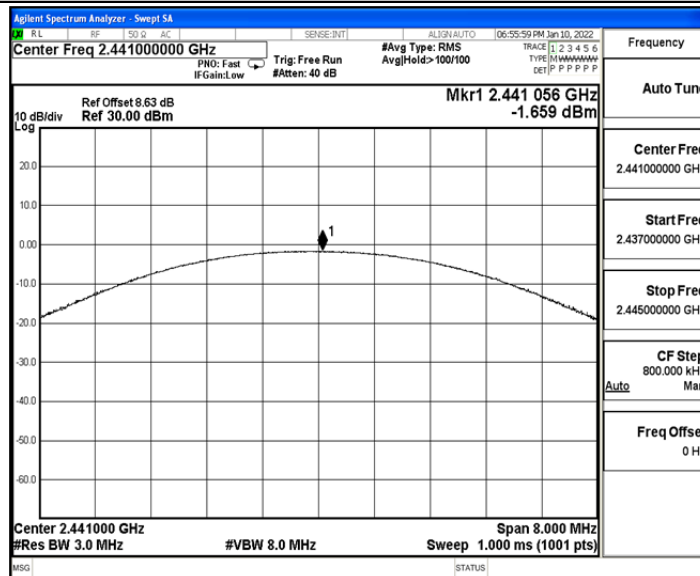


Test Graphs

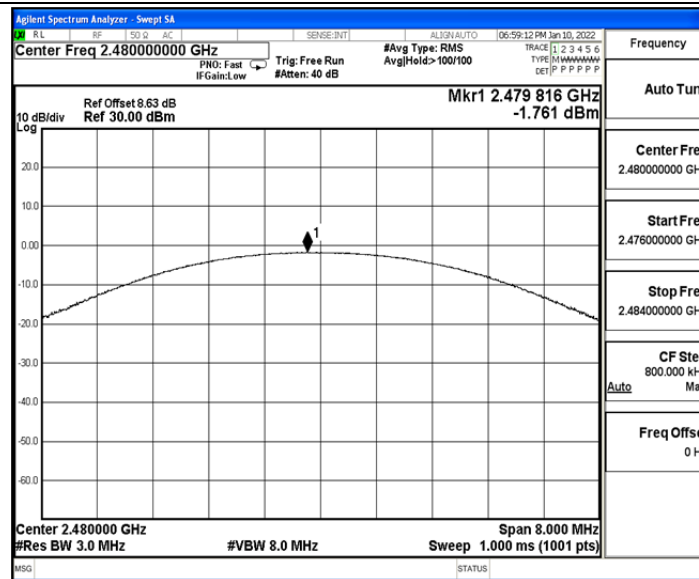
DH5_Ant1_2402



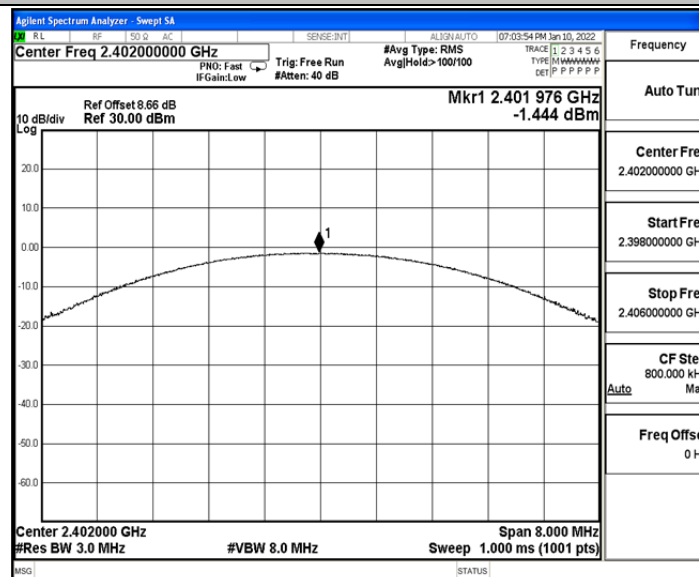
DH5_Ant1_2441



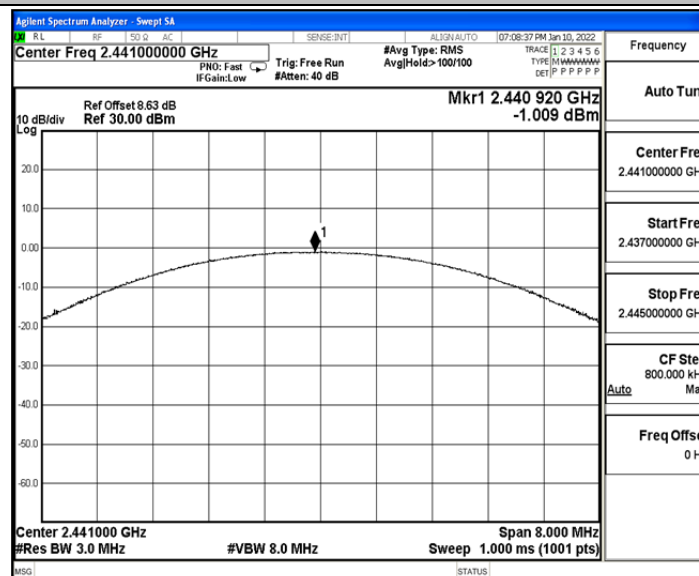
DH5_Ant1_2480



2DH5_Ant1_2402

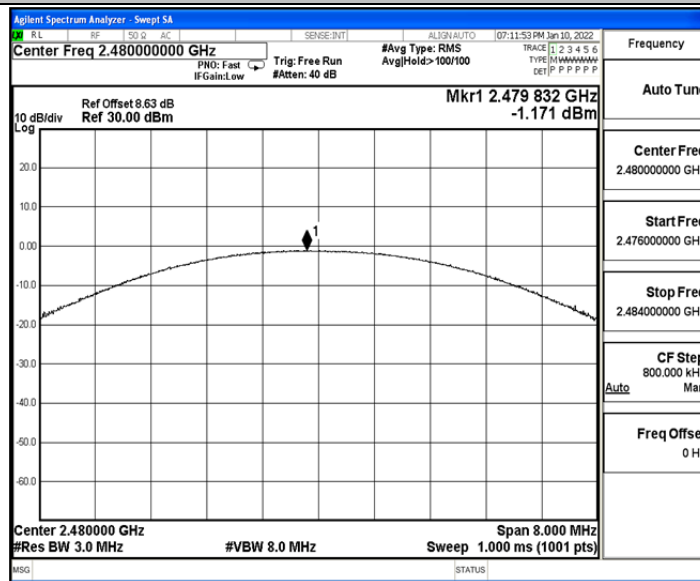


2DH5_Ant1_2441

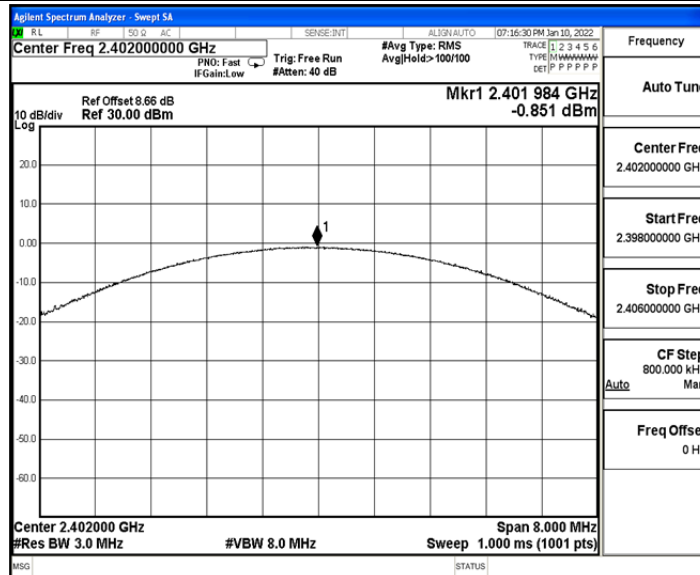




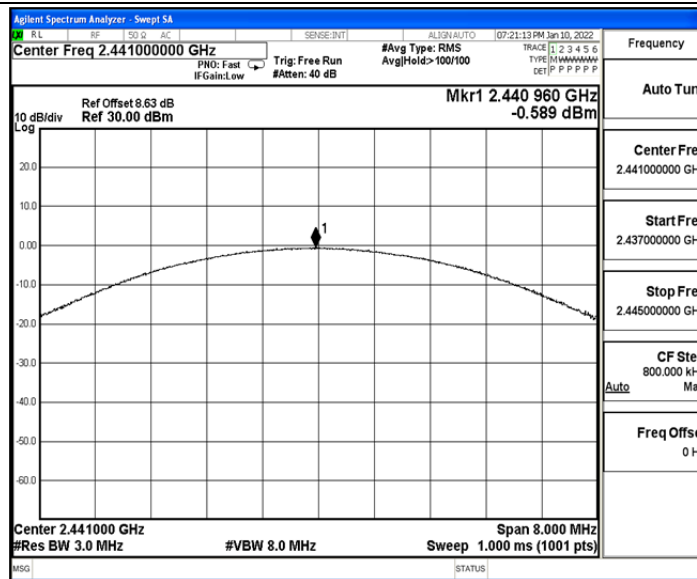
2DH5_Ant1_2480



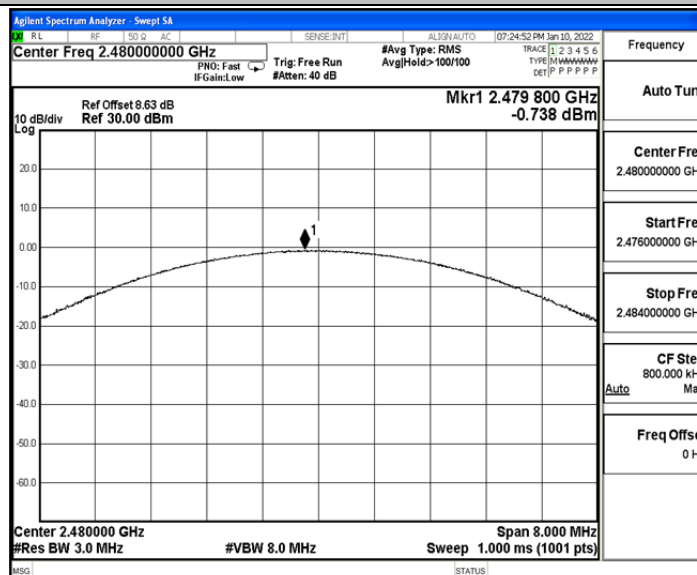
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

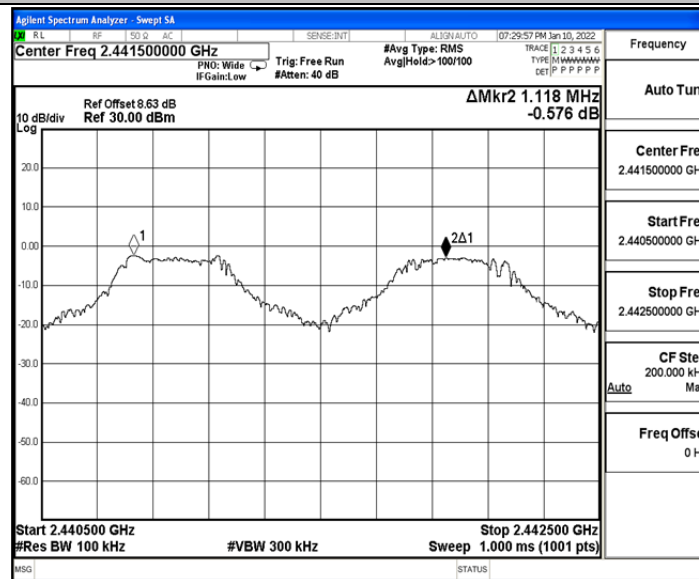
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.118	≥ 0.957	PASS
2DH5	Ant1	Hop	0.974	≥ 0.842	PASS
3DH5	Ant1	Hop	0.932	≥ 0.882	PASS

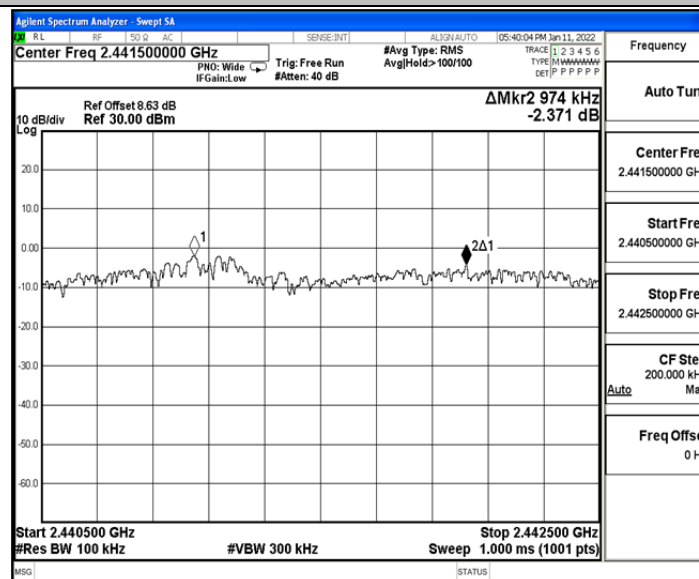


Test Graphs

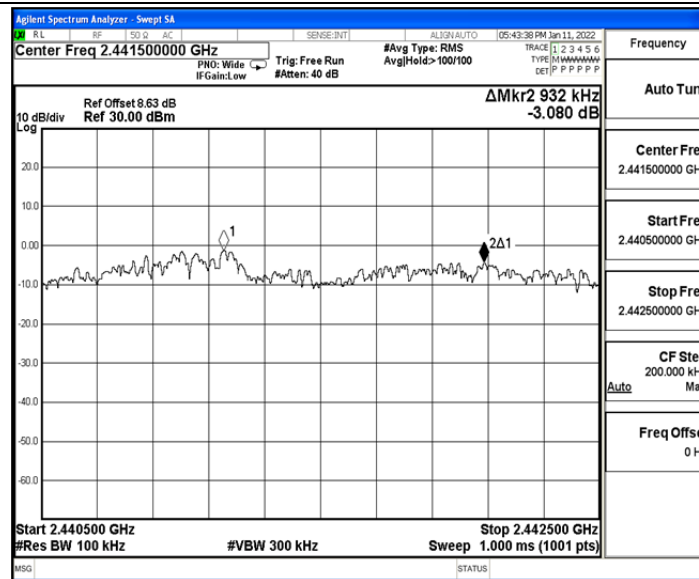
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

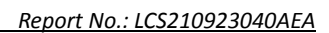


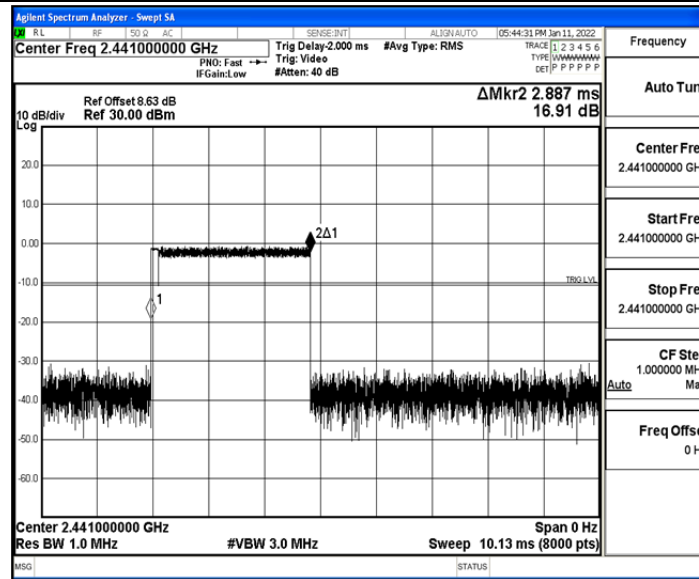


A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS







A.5 Number of hopping channels

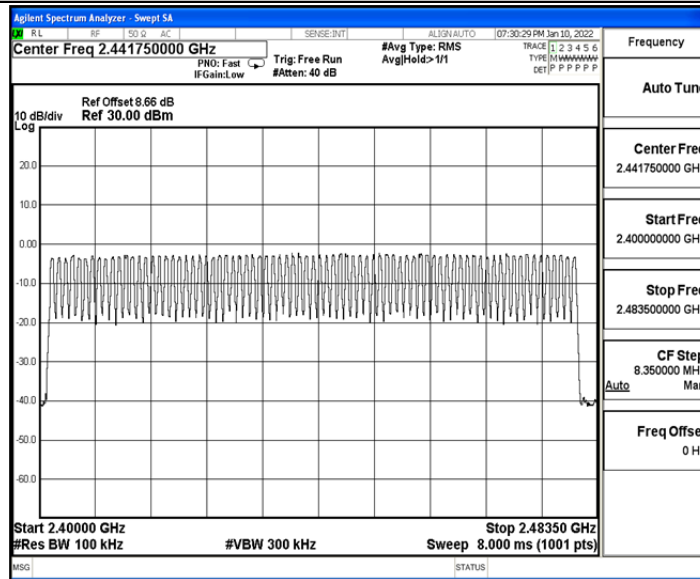
Test Result

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

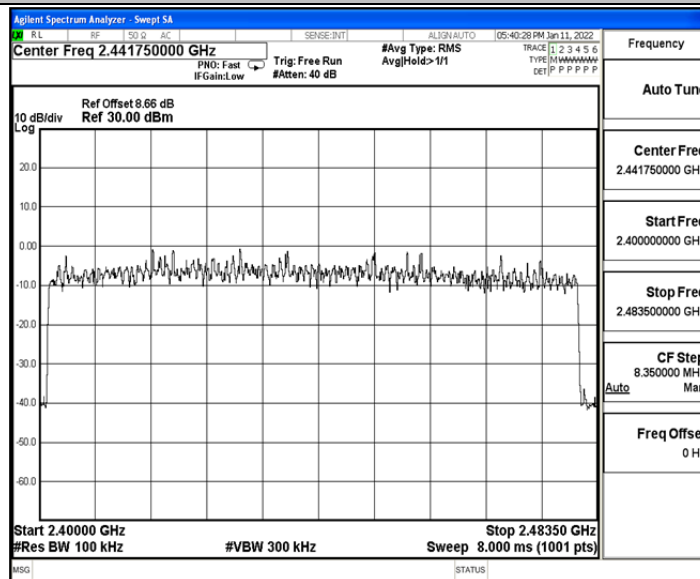


Test Graphs

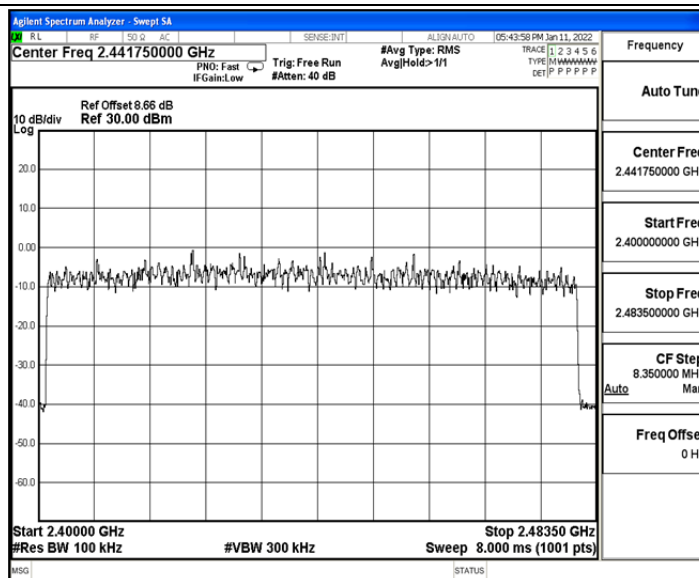
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

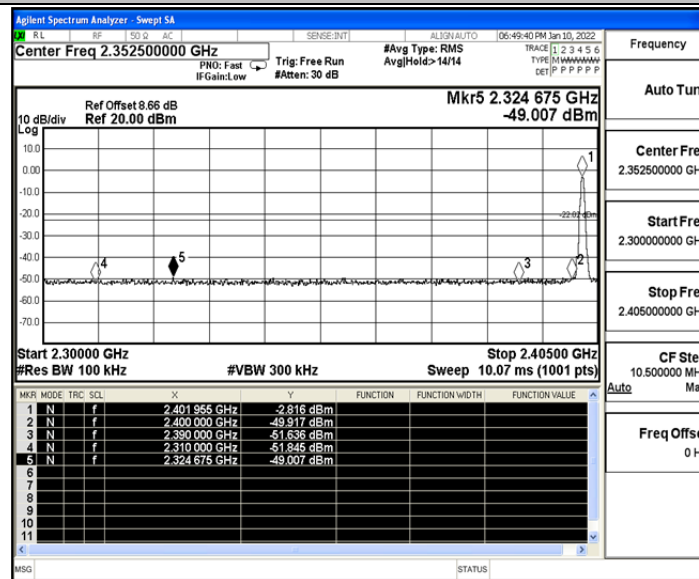
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.82	-49.01	≤ -22.82	PASS
		High	2480	-2.31	-47.9	≤ -22.31	PASS
		Low	Hop_2402	-3.17	-49.31	≤ -23.17	PASS
		High	Hop_2480	-2.83	-47.99	≤ -22.83	PASS
2DH5	Ant1	Low	2402	-3.33	-48.73	≤ -23.33	PASS
		High	2480	-2.48	-47.57	≤ -22.48	PASS
		Low	Hop_2402	-4.81	-49.15	≤ -24.81	PASS
		High	Hop_2480	-5.20	-48.37	≤ -25.2	PASS
3DH5	Ant1	Low	2402	-2.69	-48.75	≤ -22.69	PASS
		High	2480	-2.40	-48.46	≤ -22.4	PASS
		Low	Hop_2402	-3.34	-49.67	≤ -23.34	PASS
		High	Hop_2480	-5.89	-48.2	≤ -25.89	PASS

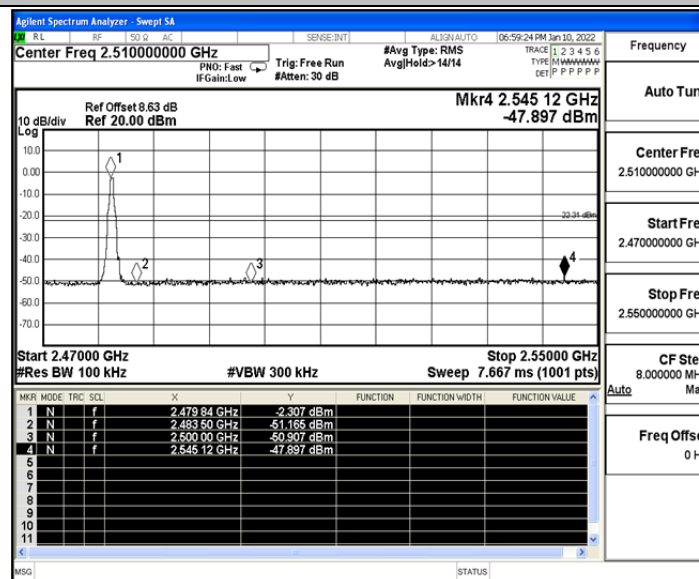


Test Graphs

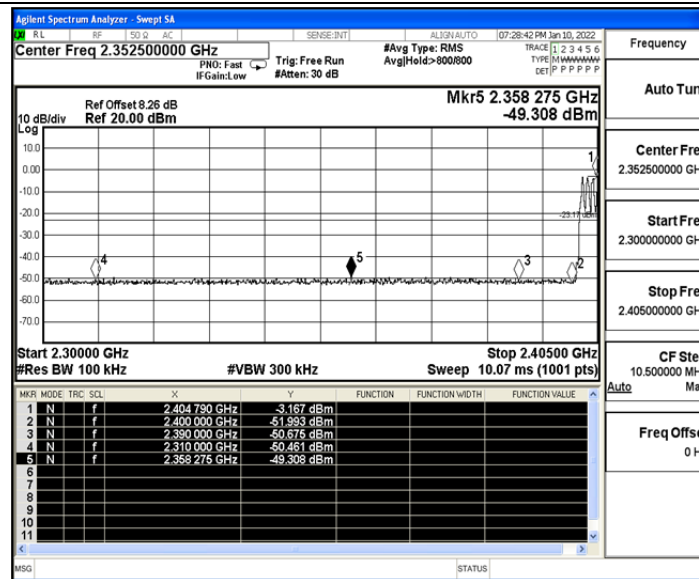
DH5_Ant1_Low_2402



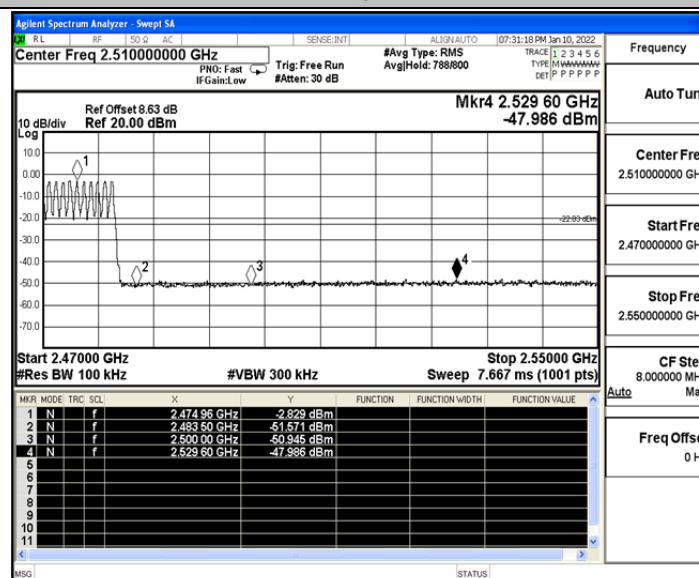
DH5_Ant1_High_2480



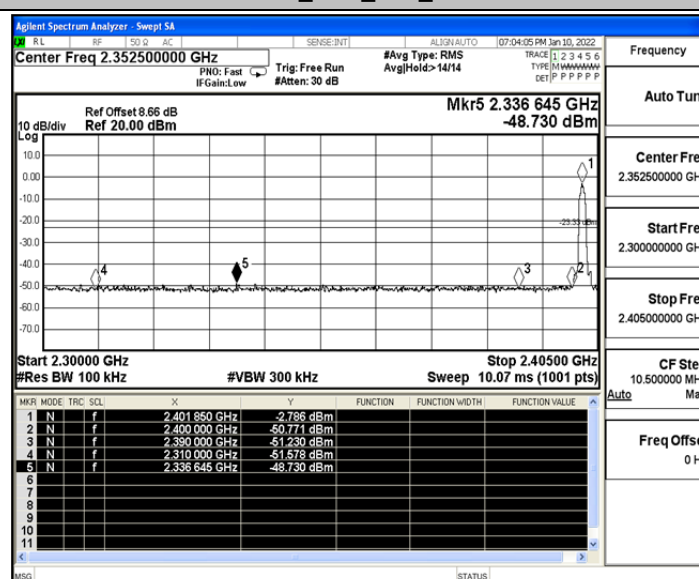
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

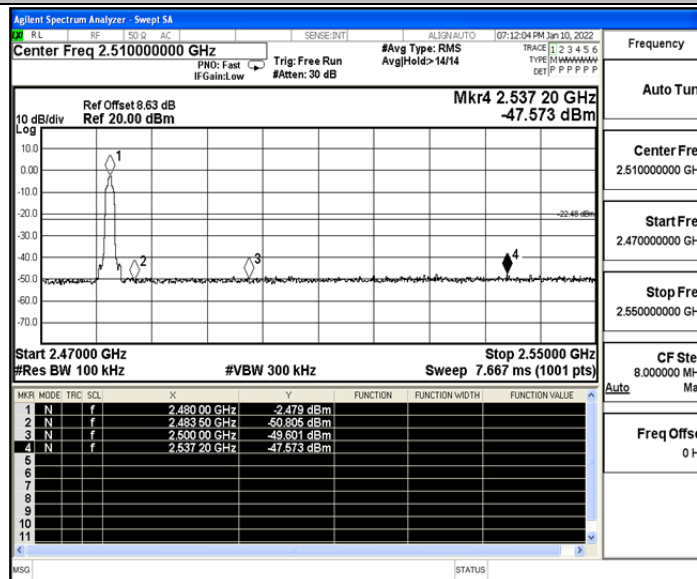


2DH5_Ant1_Low_2402

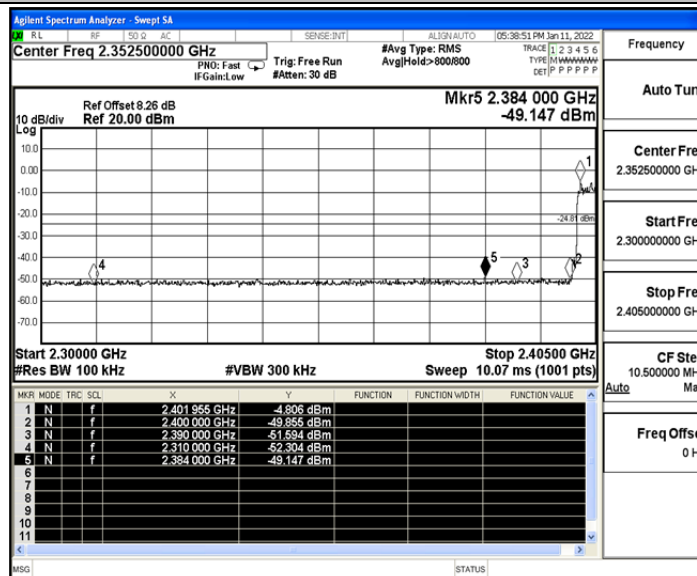




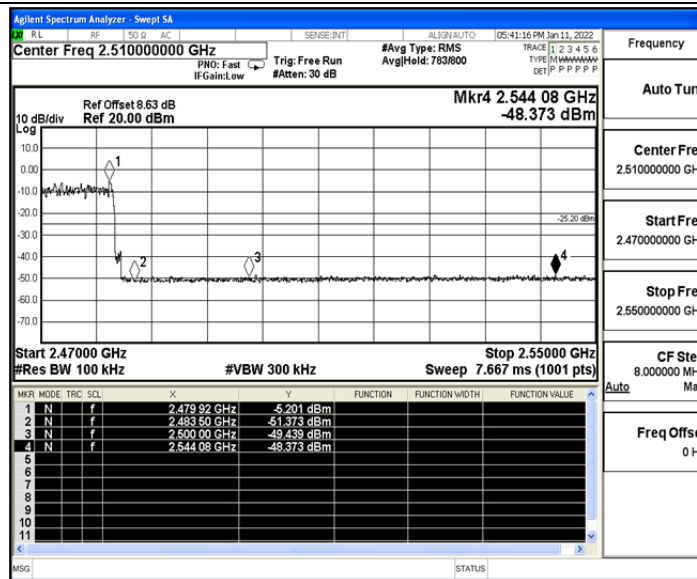
2DH5_Ant1_High_2480



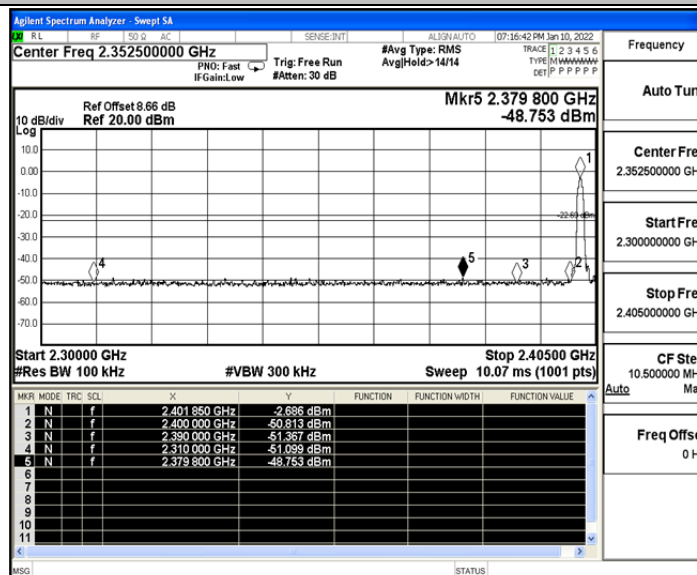
2DH5_Ant1_Low_Hop_2402



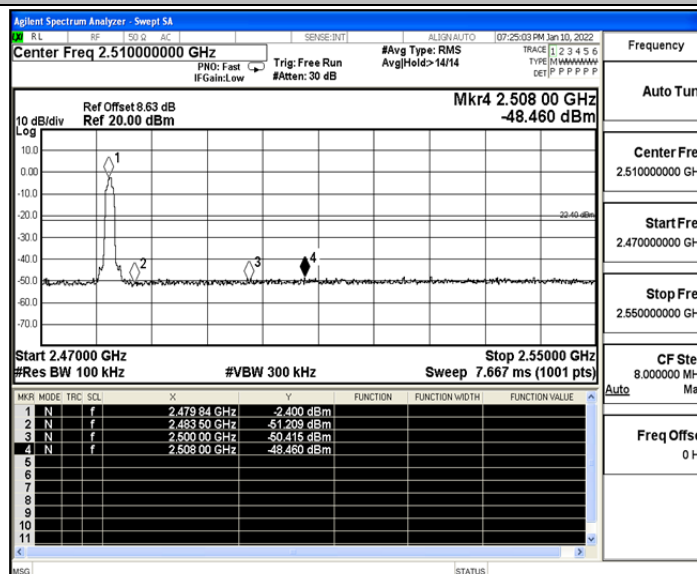
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

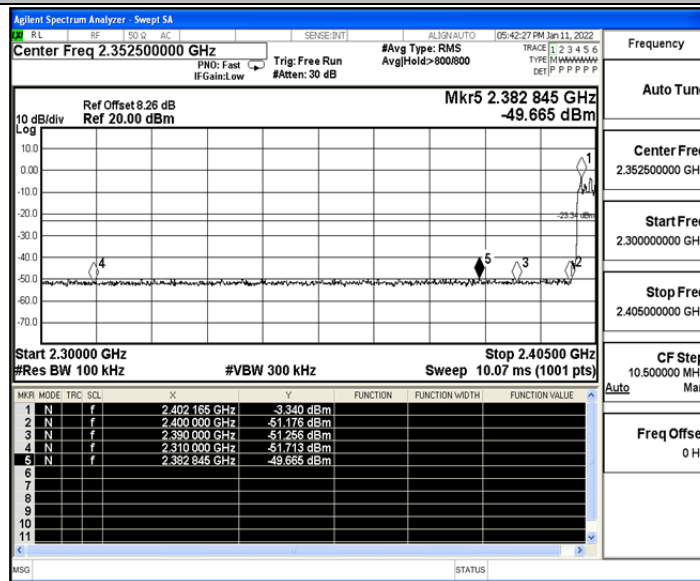


3DH5_Ant1_High_2480

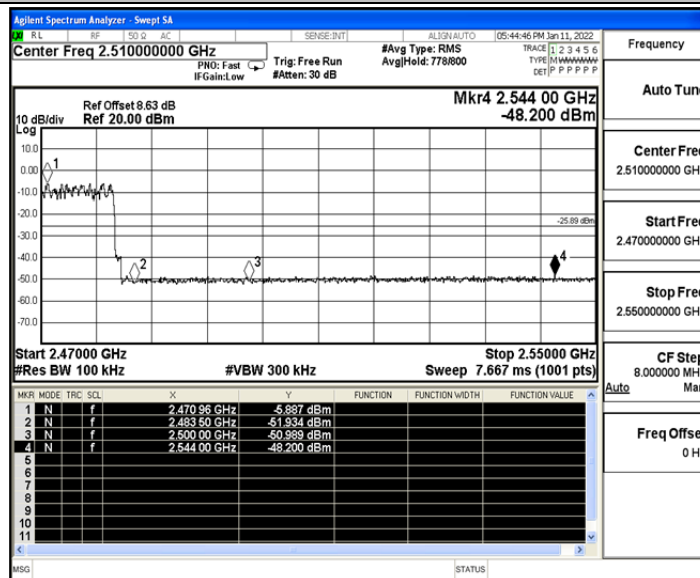




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

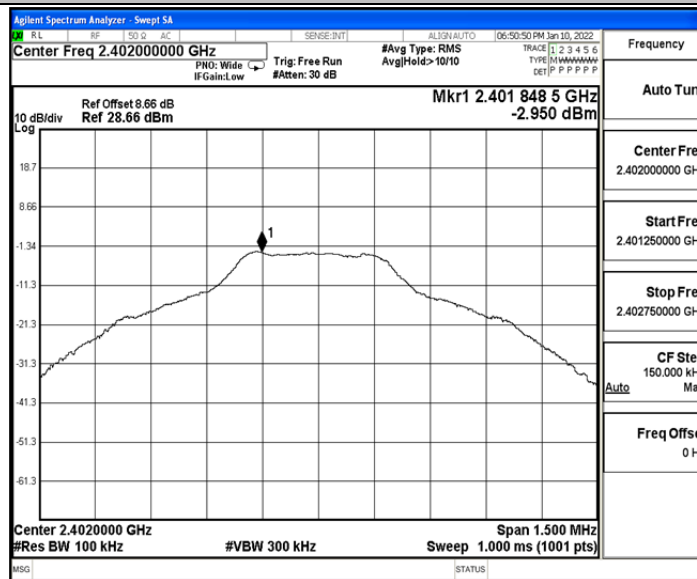
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.99	-2.99	---	PASS
			30~1000	-2.99	-60.7	≤ -22.99	PASS
			1000~26500	-2.99	-45.99	≤ -22.99	PASS
		2441	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-60.31	≤ -22.4	PASS
			1000~26500	-2.40	-46.13	≤ -22.4	PASS
		2480	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-60.91	≤ -22.42	PASS
			1000~26500	-2.42	-46.21	≤ -22.42	PASS
2DH5	Ant1	2402	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-50.83	≤ -22.77	PASS
			1000~26500	-2.77	-46.71	≤ -22.77	PASS
		2441	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-60.45	≤ -22.33	PASS
			1000~26500	-2.33	-46.11	≤ -22.33	PASS
		2480	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-61.06	≤ -22.45	PASS
			1000~26500	-2.45	-46.07	≤ -22.45	PASS
3DH5	Ant1	2402	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-60.64	≤ -22.77	PASS
			1000~26500	-2.77	-46.41	≤ -22.77	PASS
		2441	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-60.81	≤ -22.41	PASS
			1000~26500	-2.41	-46.42	≤ -22.41	PASS
		2480	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-60.64	≤ -22.47	PASS
			1000~26500	-2.47	-46.12	≤ -22.47	PASS

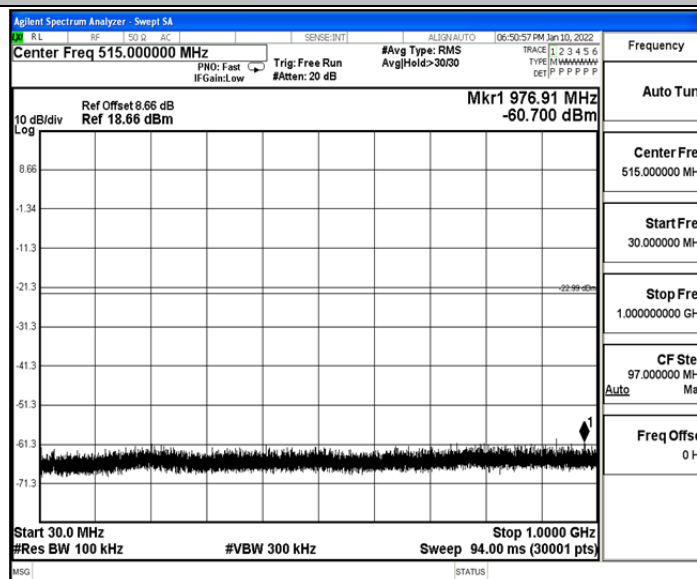


Test Graphs

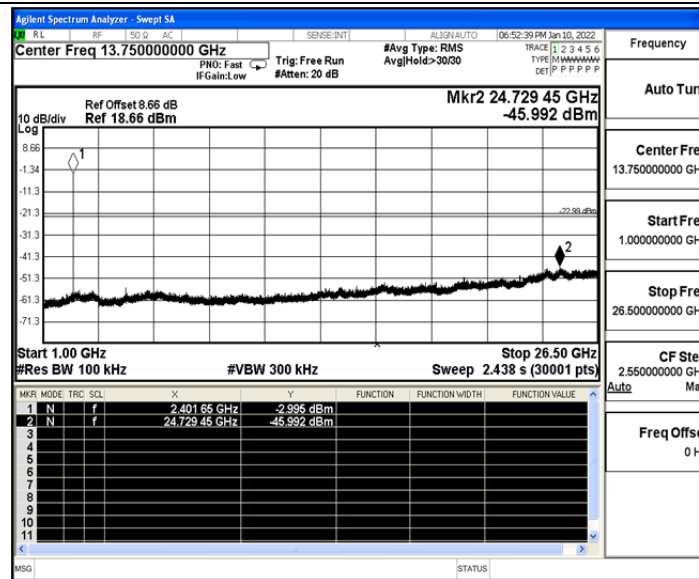
DH5_Ant1_2402_0~Reference



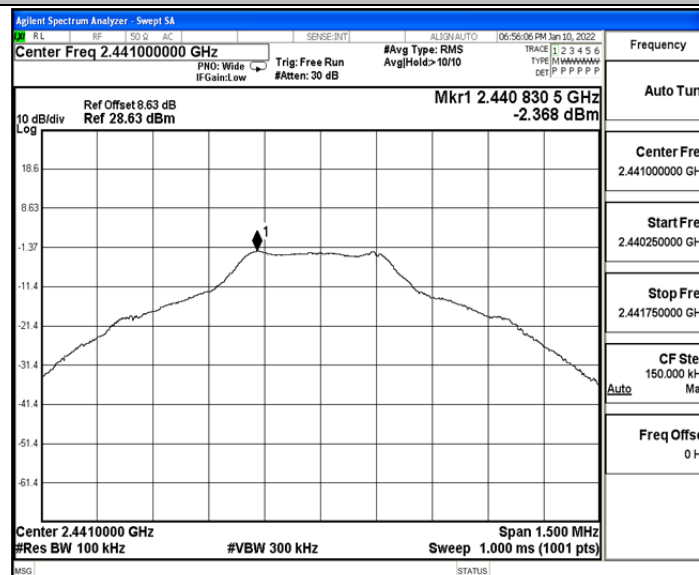
DH5_Ant1_2402_30~1000



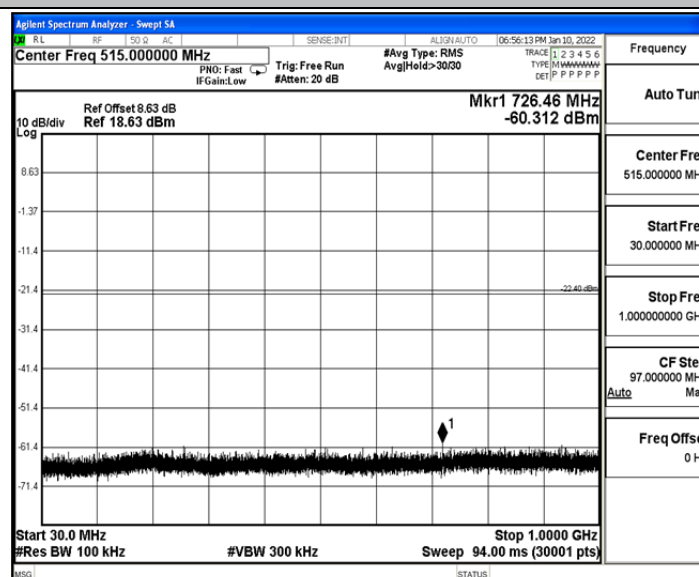
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

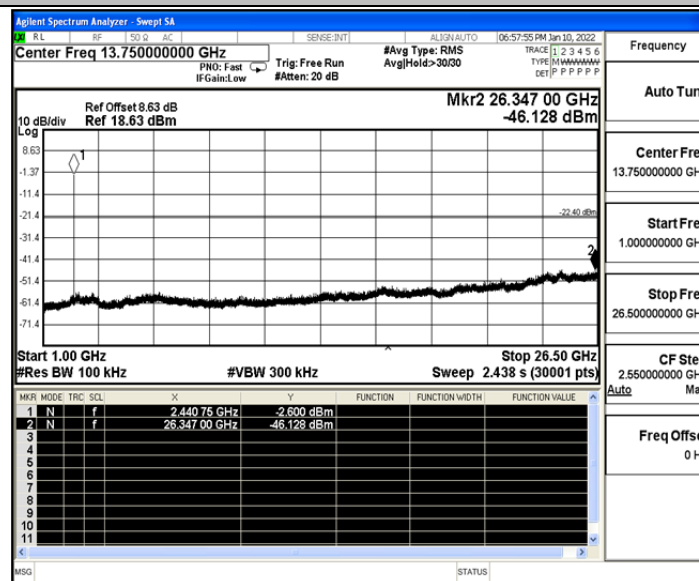


DH5_Ant1_2441_30~1000

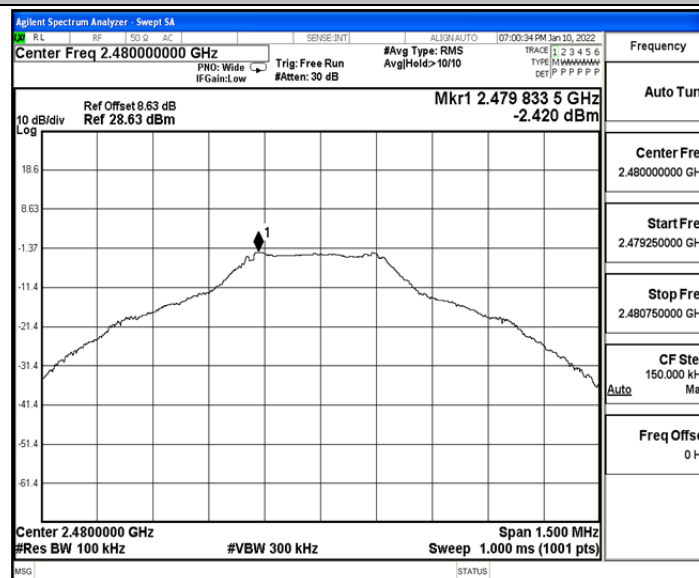




DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000