



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Speaker box/Parlante

Test Model: MA-D65TR

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





A.1 20dB Emission Bandwidth

Test Result

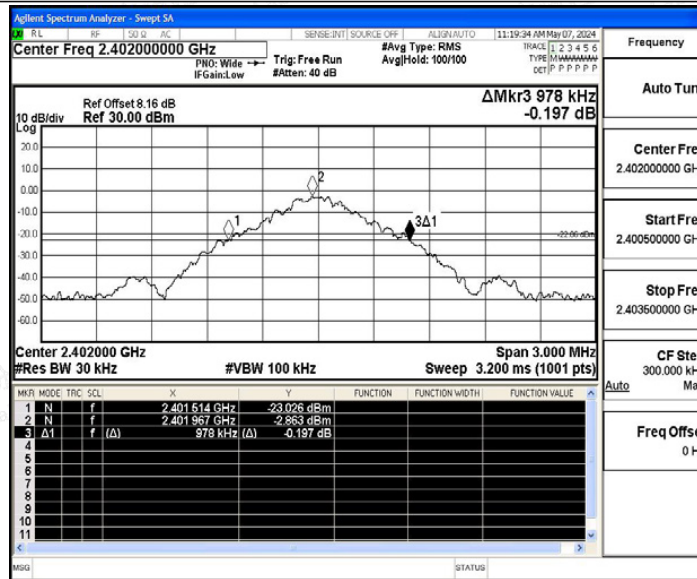
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.978	2401.514	2402.492	---	---
		2441	1.017	2440.469	2441.486	---	---
		2480	1.035	2479.460	2480.495	---	---
2DH5	Ant1	2402	1.281	2401.358	2402.639	---	---
		2441	1.293	2440.355	2441.648	---	---
		2480	1.281	2479.361	2480.642	---	---
3DH5	Ant1	2402	1.311	2401.340	2402.651	---	---
		2441	1.314	2440.340	2441.654	---	---
		2480	1.308	2479.343	2480.651	---	---



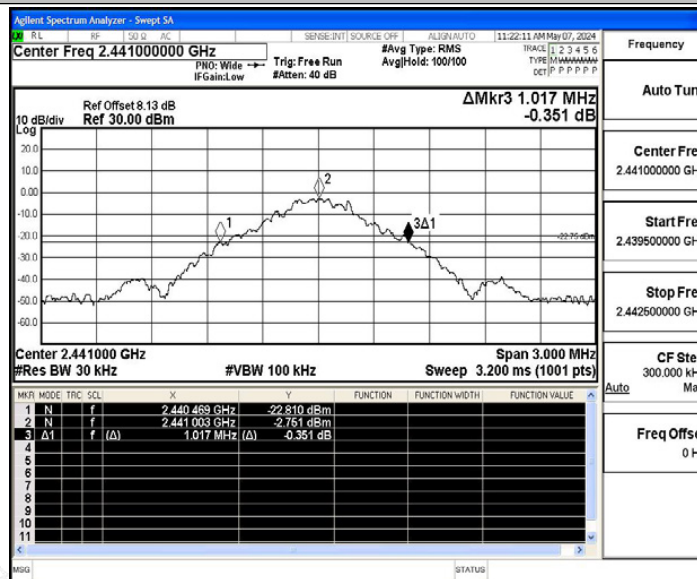


Test Graphs

DH5_Ant1_2402

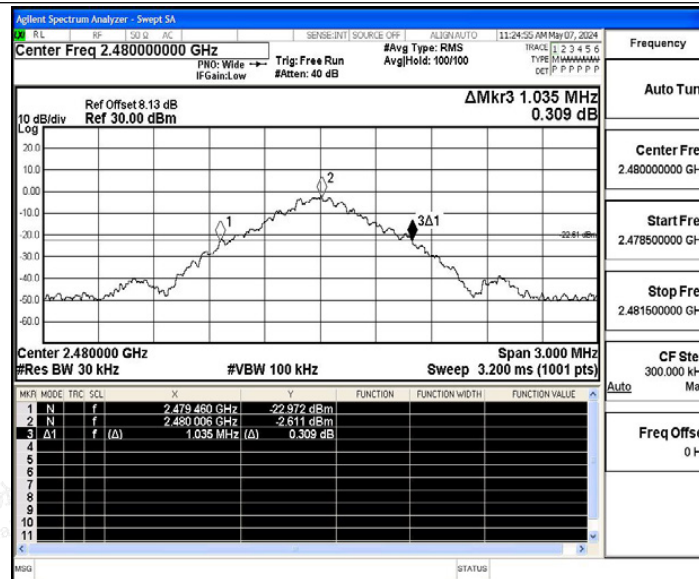


DH5_Ant1_2441

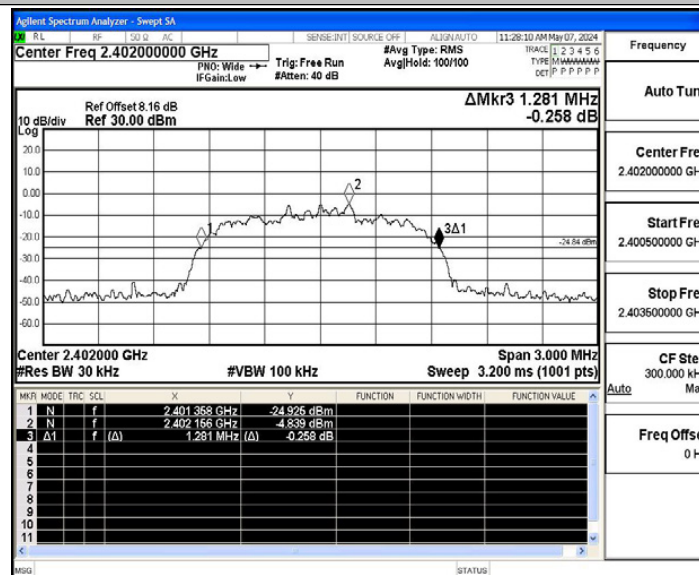


DH5_Ant1_2480



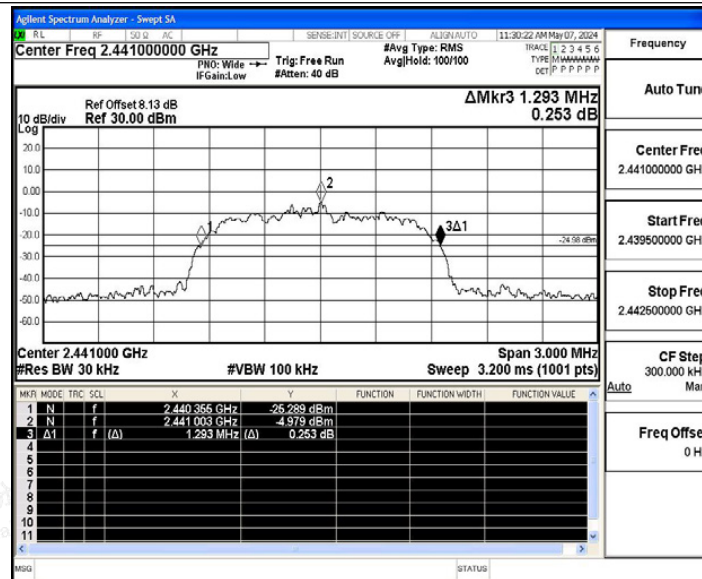


2DH5_Ant1_2402

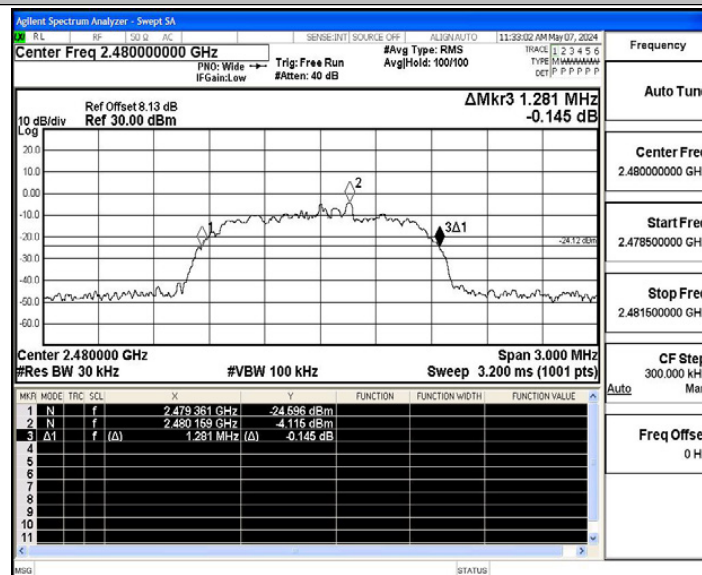


2DH5_Ant1_2441



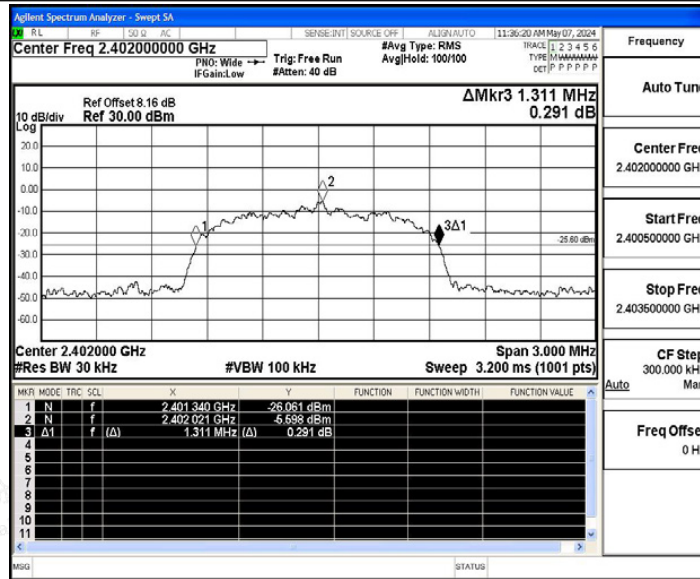


2DH5_Ant1_2480

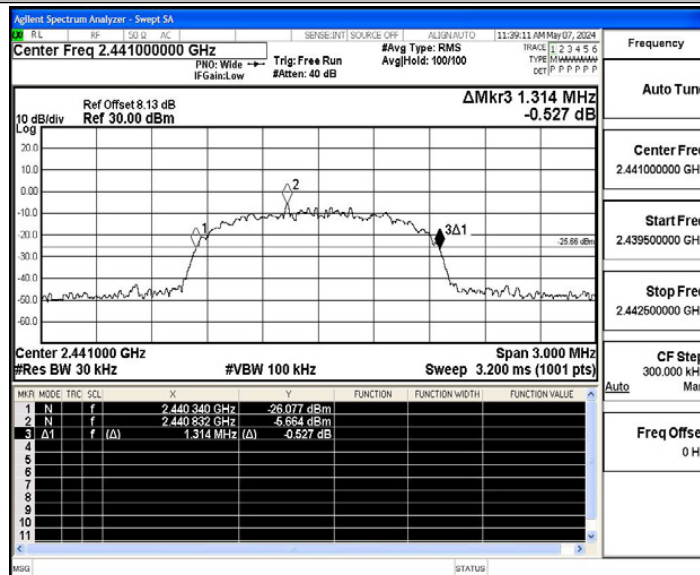


3DH5_Ant1_2402



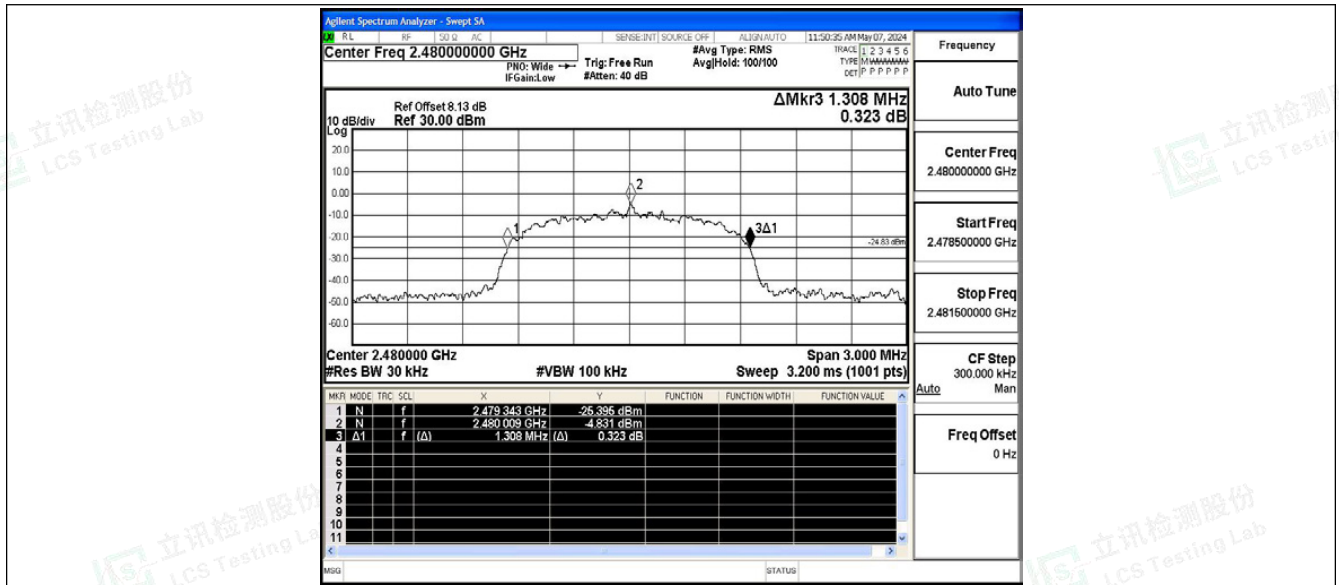


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

Test Result

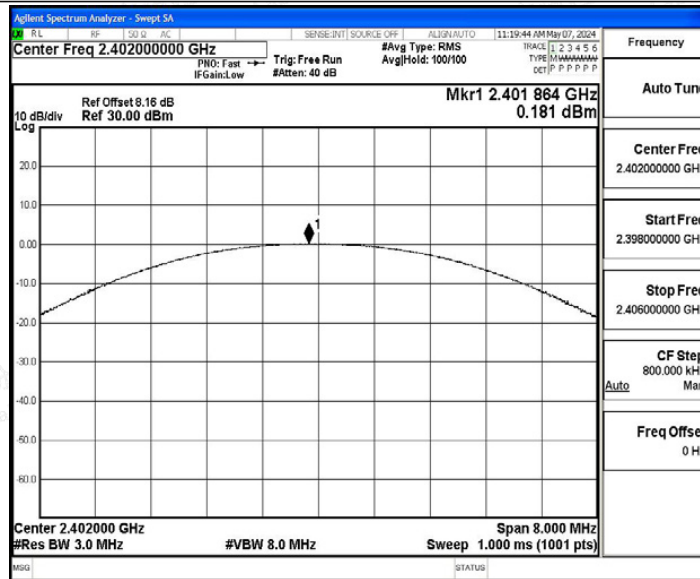
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.18	≤20.97	PASS
		2441	0.37	≤20.97	PASS
		2480	0.42	≤20.97	PASS
2DH5	Ant1	2402	-0.25	≤20.97	PASS
		2441	0.00	≤20.97	PASS
		2480	0.22	≤20.97	PASS
3DH5	Ant1	2402	-0.10	≤20.97	PASS
		2441	0.15	≤20.97	PASS
		2480	0.23	≤20.97	PASS



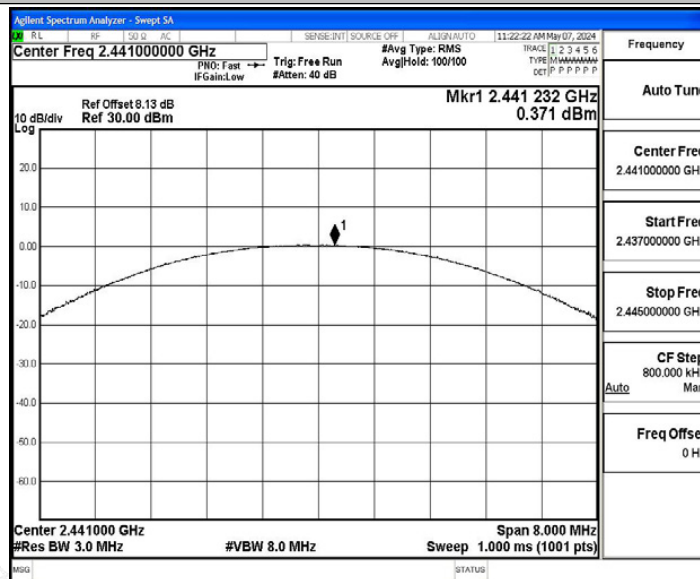


Test Graphs

DH5_Ant1_2402

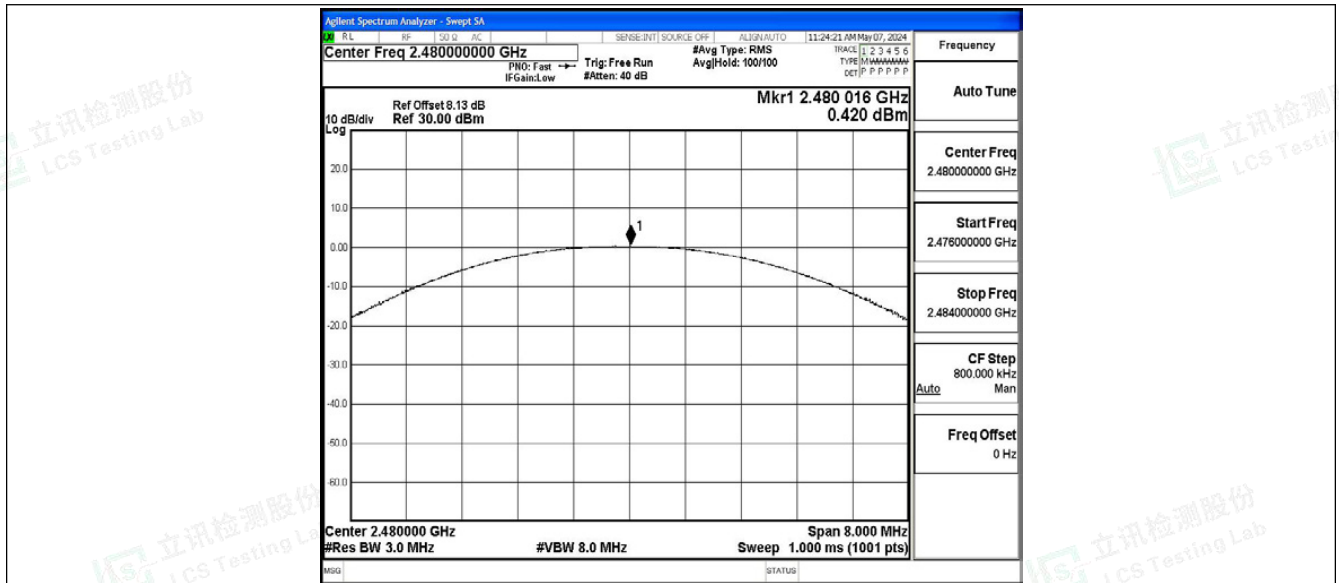


DH5_Ant1_2441

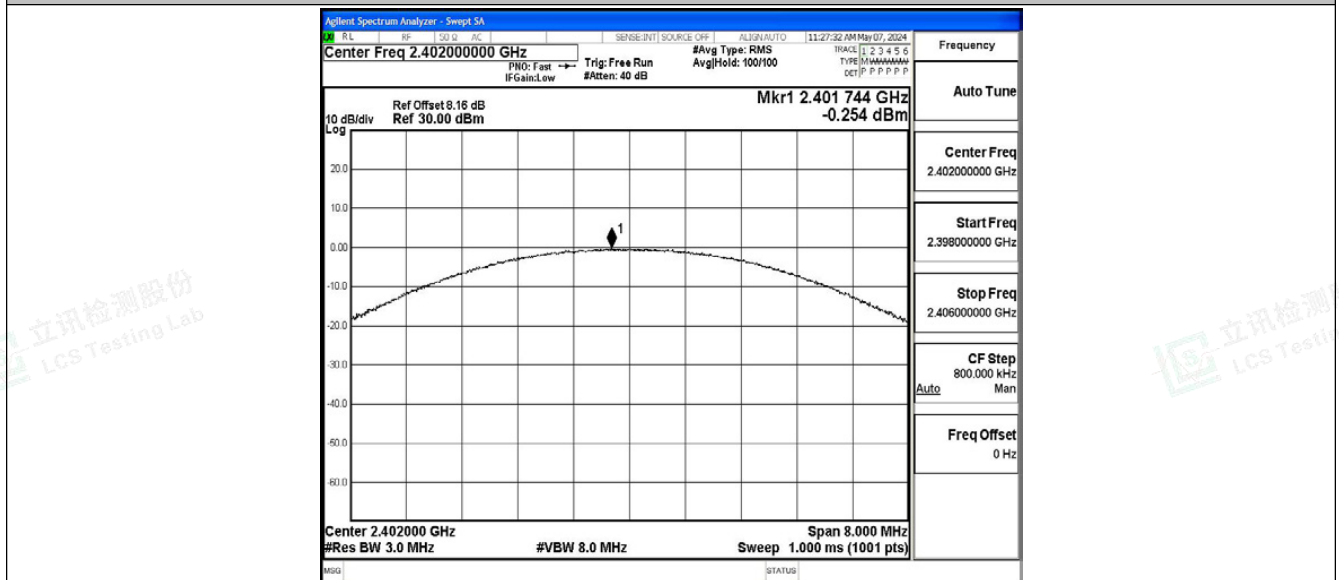


DH5_Ant1_2480



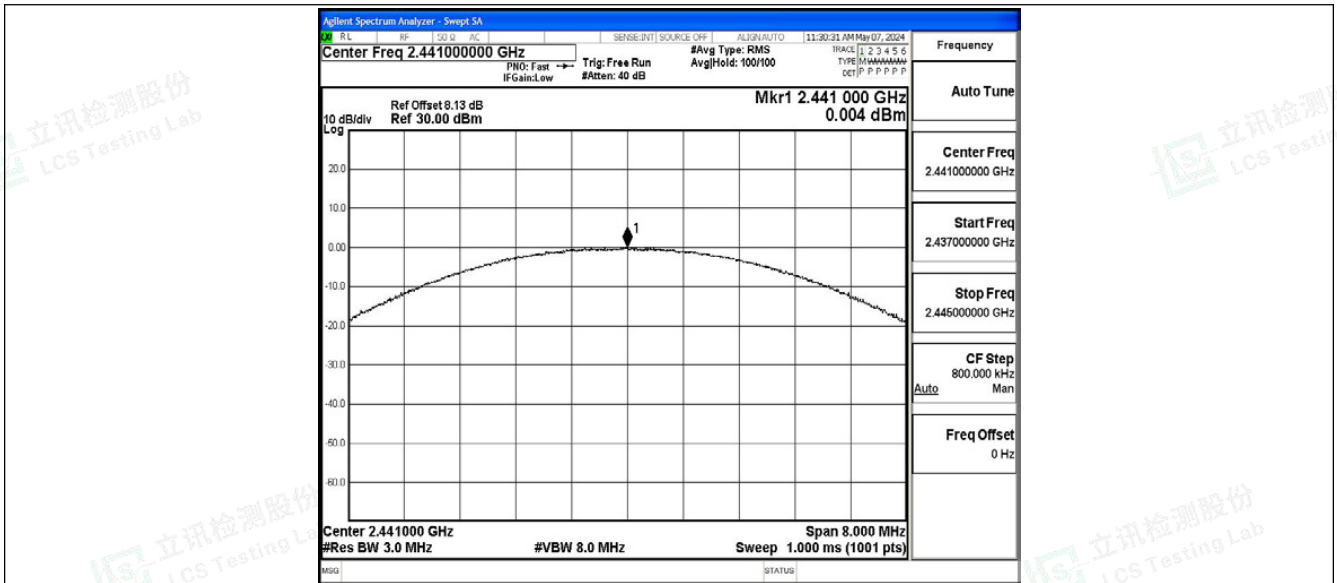


2DH5_Ant1_2402

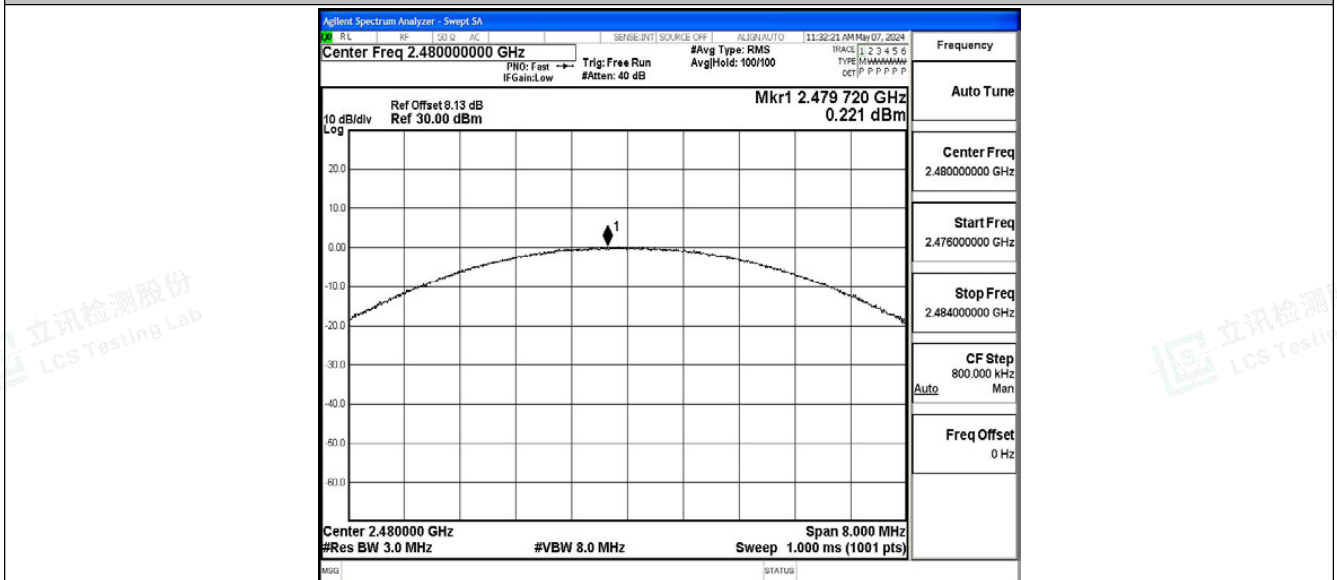


2DH5_Ant1_2441



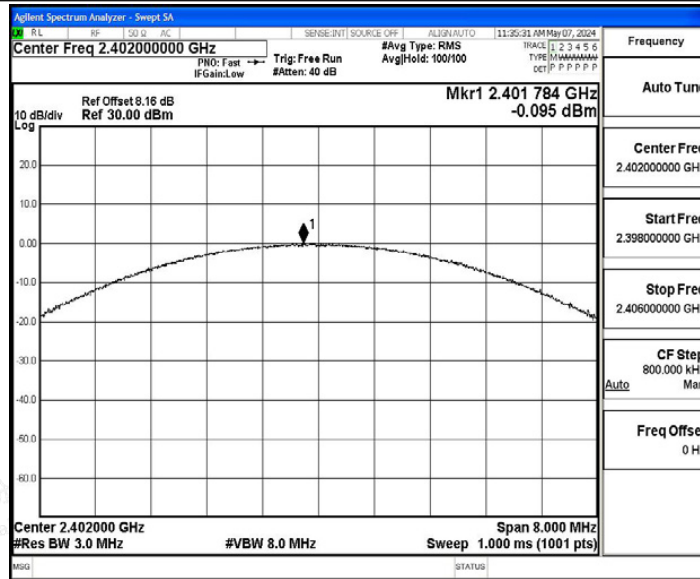


2DH5_Ant1_2480

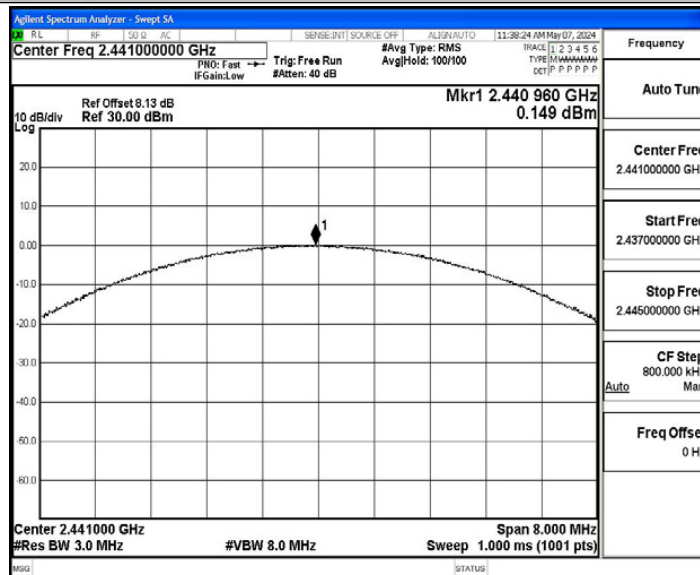


3DH5_Ant1_2402



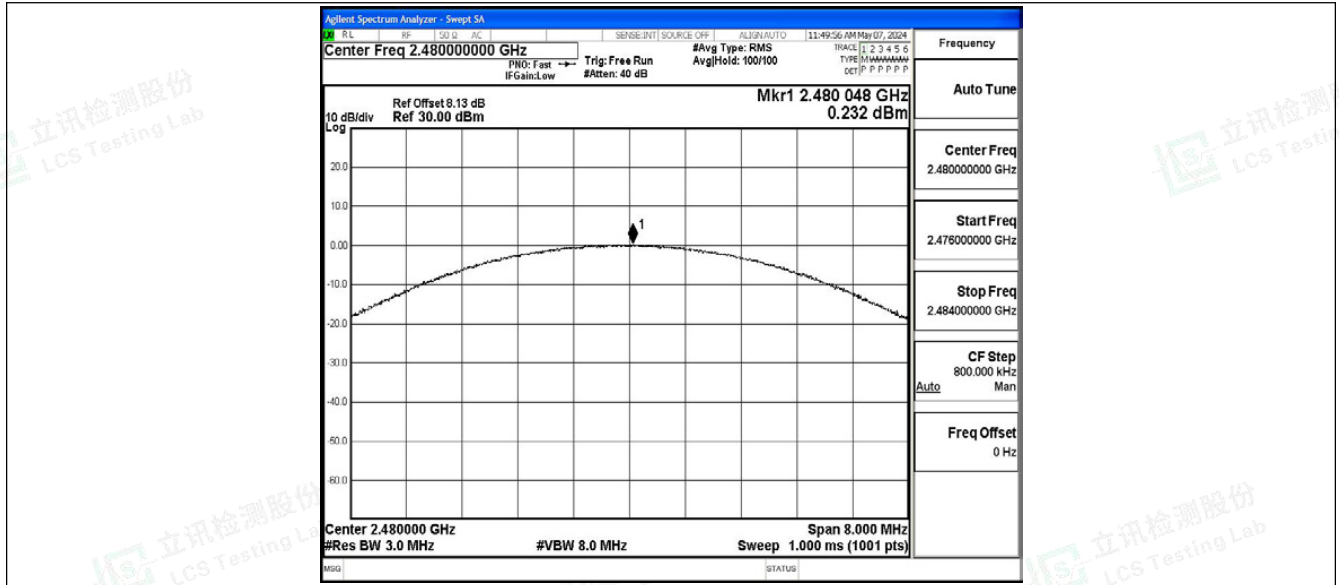


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

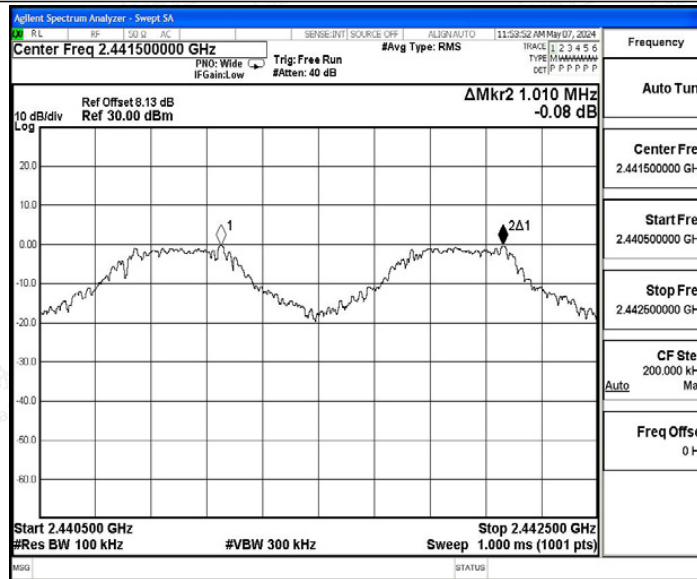
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.690	PASS
2DH5	Ant1	Hop	1.05	≥ 0.862	PASS
3DH5	Ant1	Hop	0.99	≥ 0.876	PASS



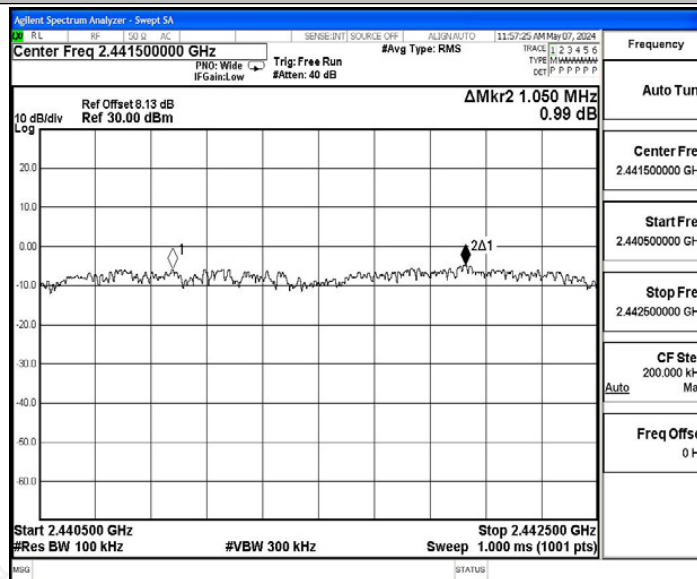


Test Graphs

DH5_Ant1_Hop

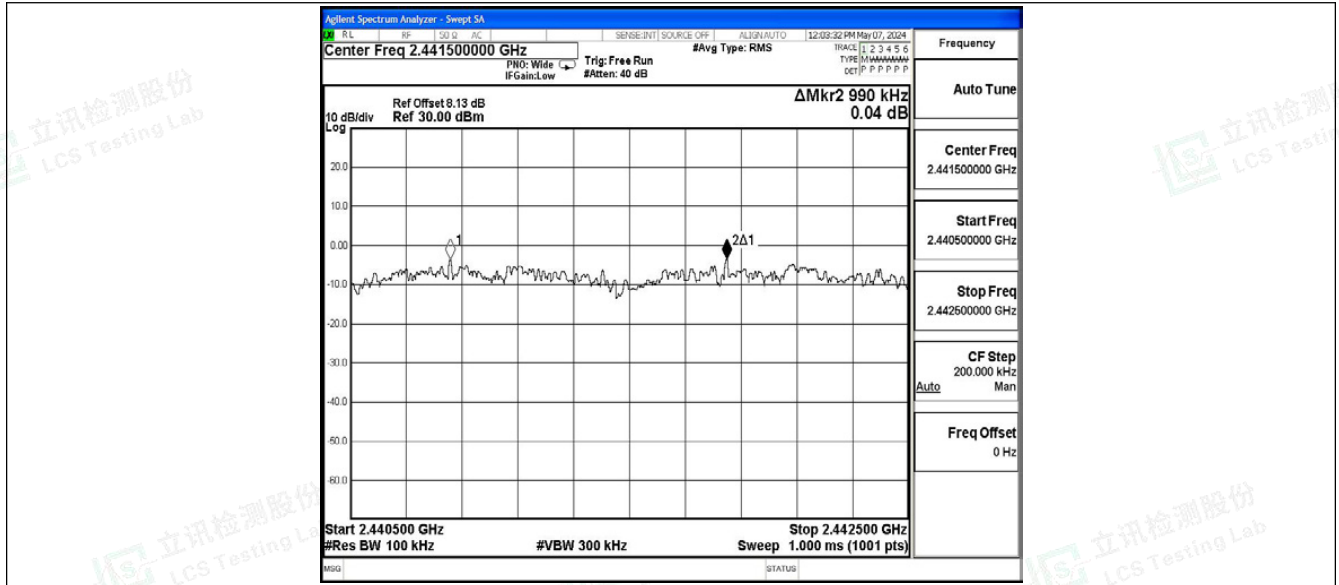


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

Test Result

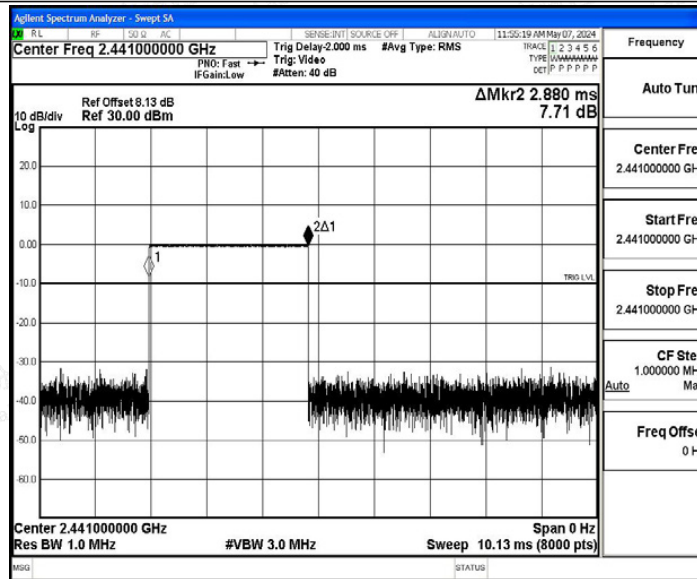
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS



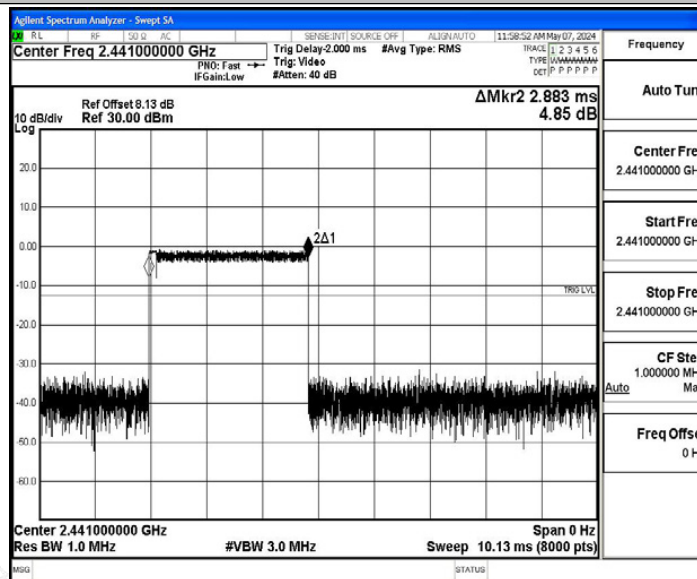


Test Graphs

DH5_Ant1_Hop

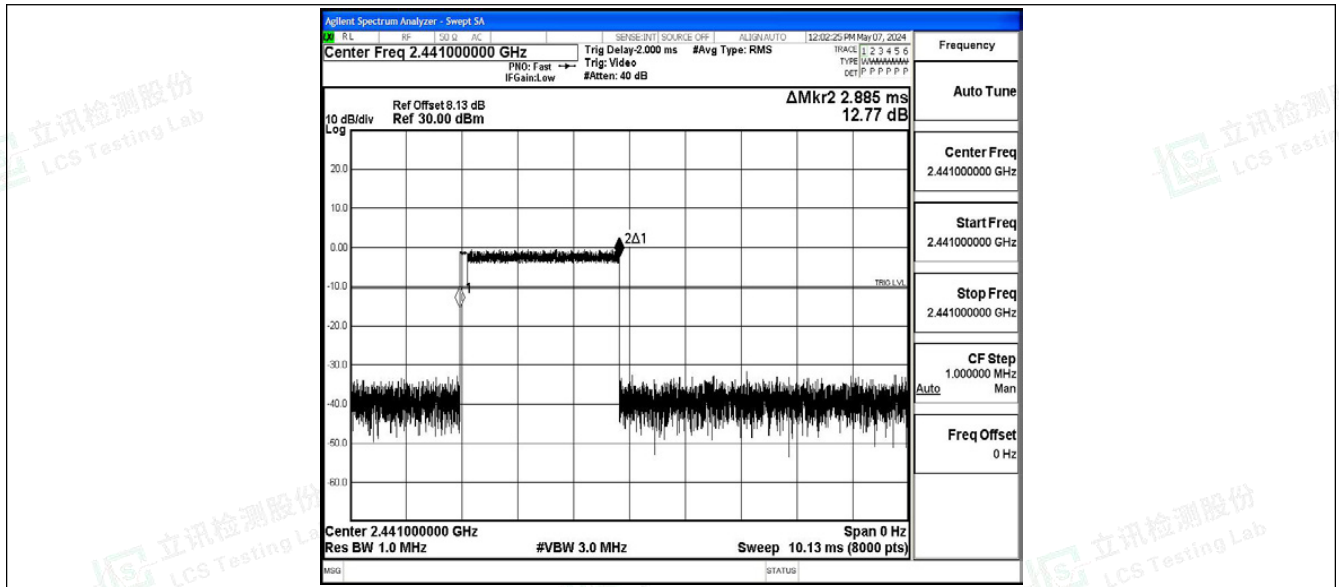


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

Test Result

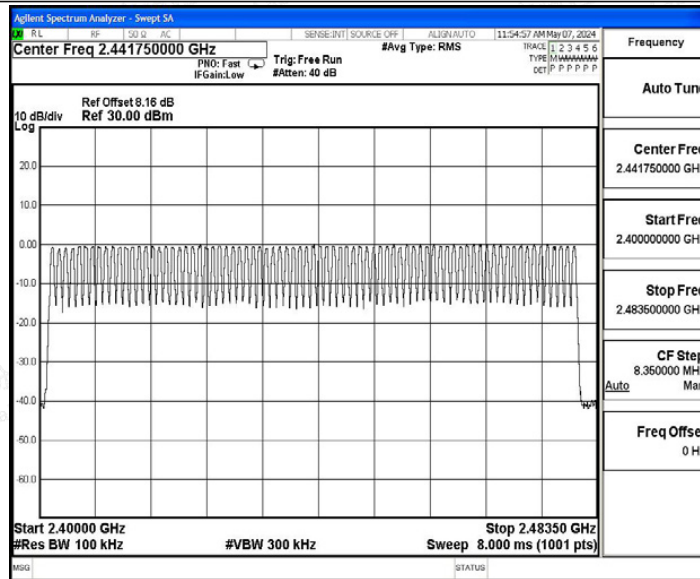
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



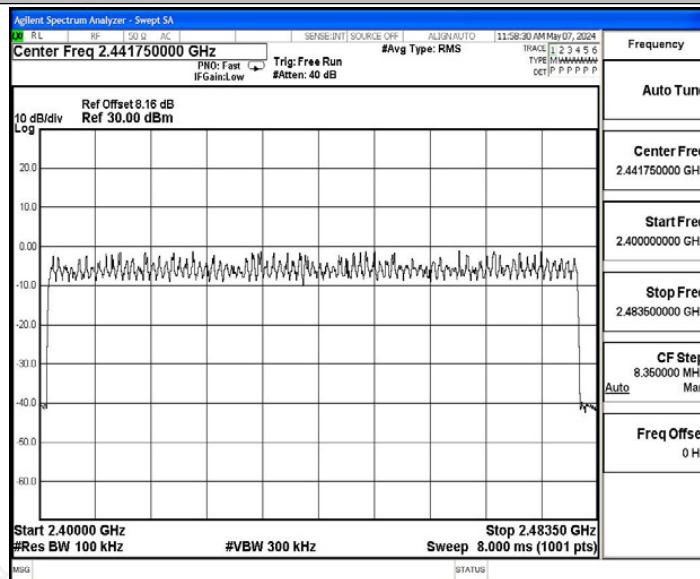


Test Graphs

DH5_Ant1_Hop

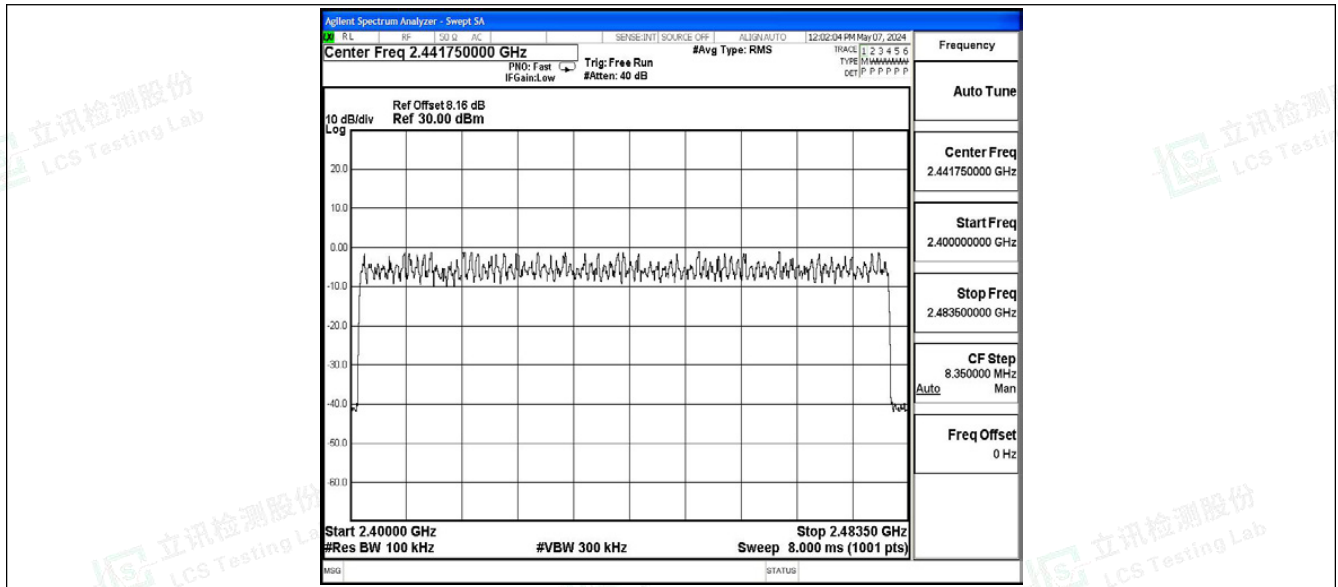


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

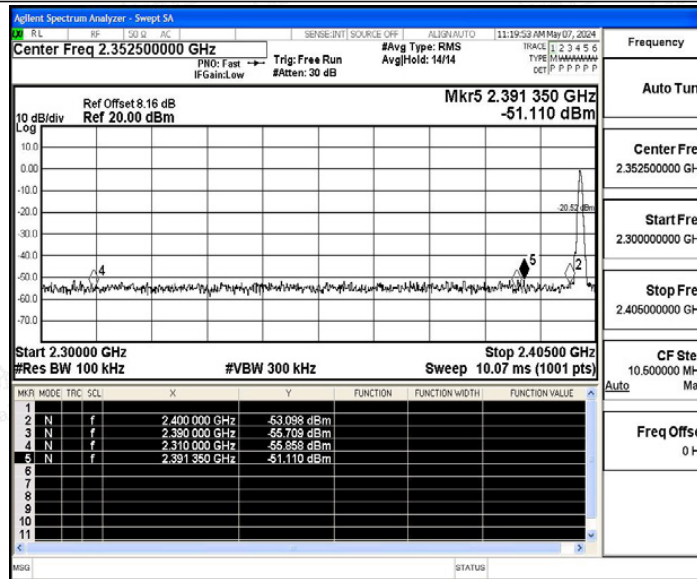
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.52	-51.11	≤ -20.52	PASS
		High	2480	-0.75	-50.45	≤ -20.75	PASS
		Low	Hop_2402	-1.03	-50.29	≤ -21.03	PASS
		High	Hop_2480	-0.19	-49.03	≤ -20.19	PASS
2DH5	Ant1	Low	2402	-4.96	-50.87	≤ -24.96	PASS
		High	2480	-1.81	-50.42	≤ -21.81	PASS
		Low	Hop_2402	-3.50	-50.29	≤ -23.5	PASS
		High	Hop_2480	-1.56	-49.2	≤ -21.56	PASS
3DH5	Ant1	Low	2402	-4.85	-50.8	≤ -24.85	PASS
		High	2480	-1.11	-50.38	≤ -21.11	PASS
		Low	Hop_2402	-5.66	-49.81	≤ -25.66	PASS
		High	Hop_2480	-1.10	-48.48	≤ -21.1	PASS



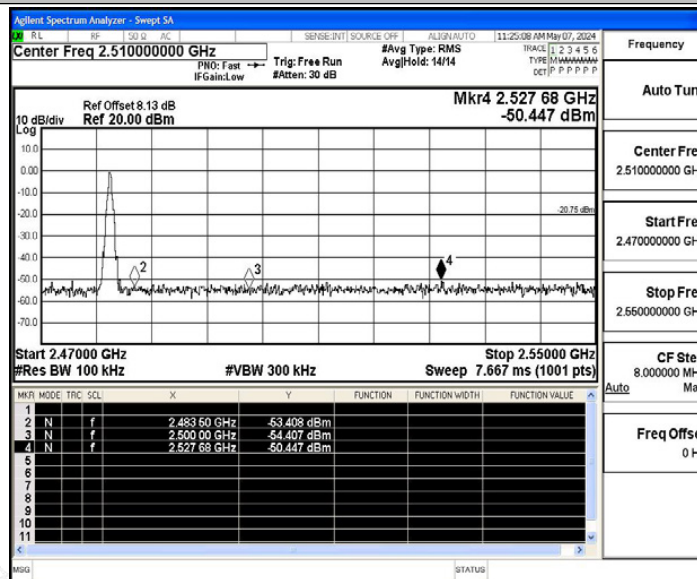


Test Graphs

DH5_Ant1_Low_2402

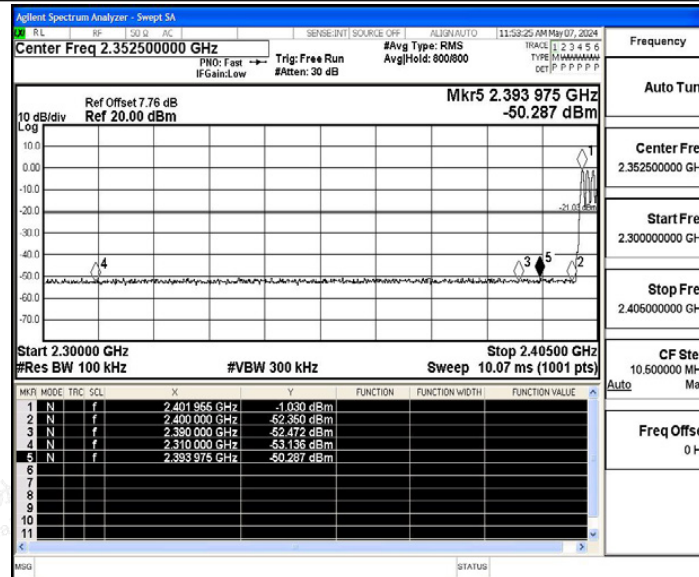


DH5_Ant1_High_2480

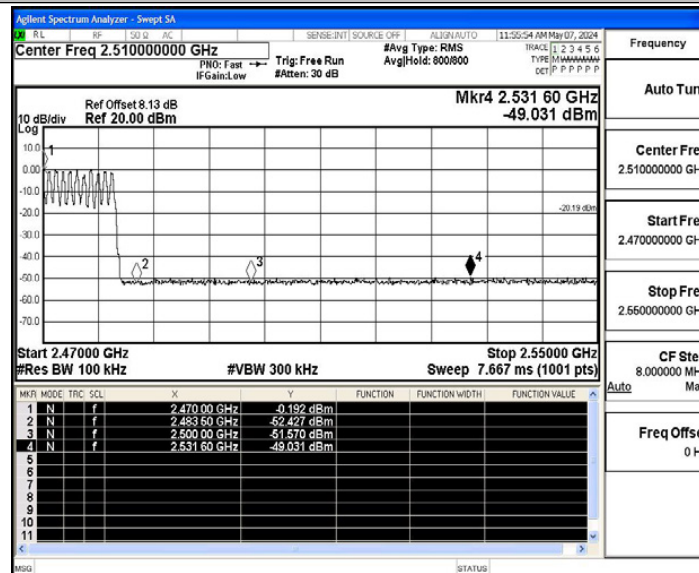


DH5_Ant1_Low_Hop_2402



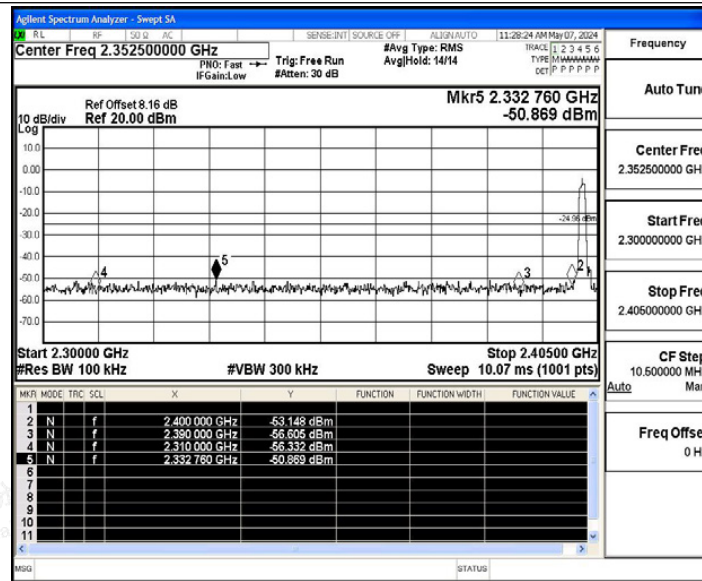


DH5_Ant1_High_Hop_2480

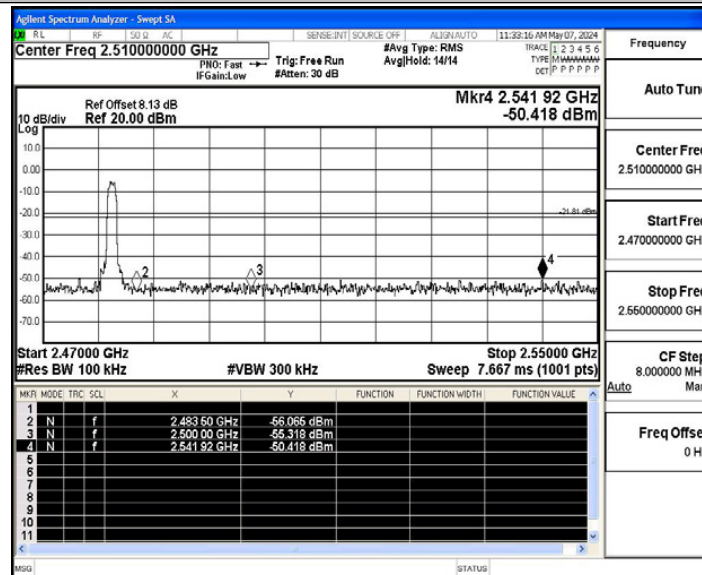


2DH5_Ant1_Low_2402



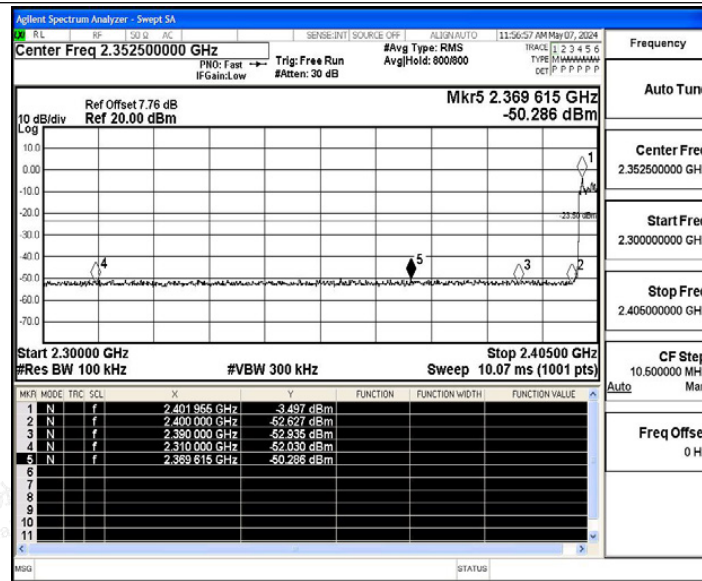


2DH5_Ant1_High_2480

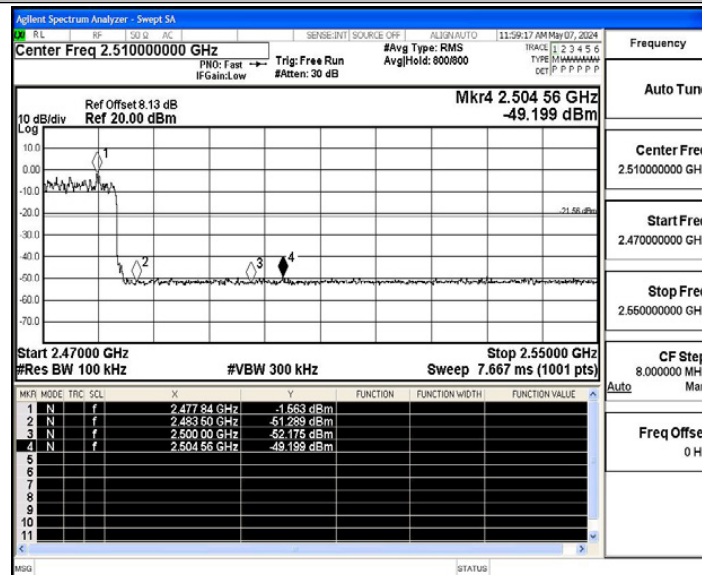


2DH5_Ant1_Low_Hop_2402



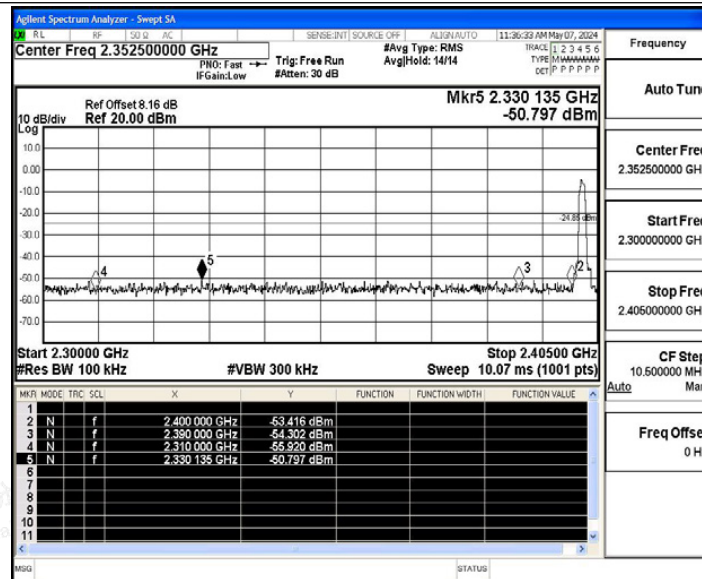


2DH5_Ant1_High_Hop_2480

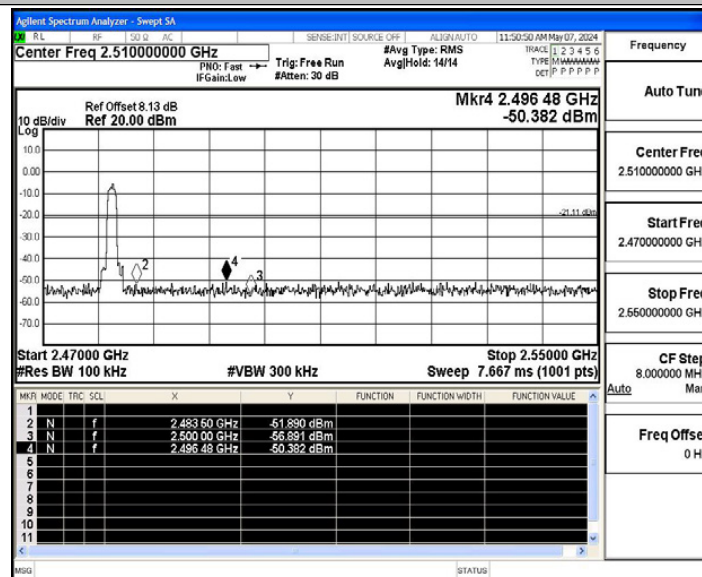


3DH5_Ant1_Low_2402



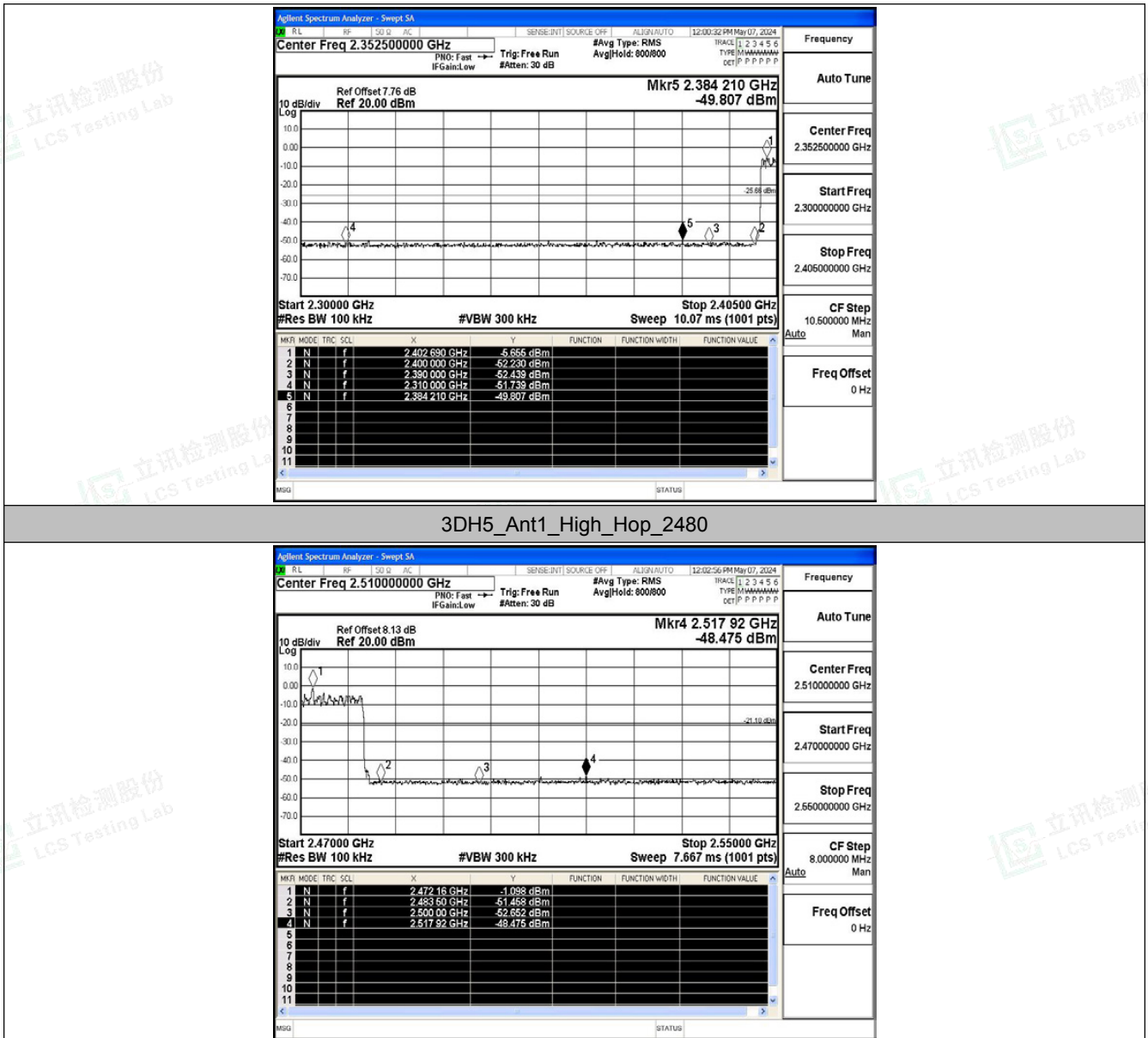


3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402







A.7 Conducted Spurious Emission

Test Result

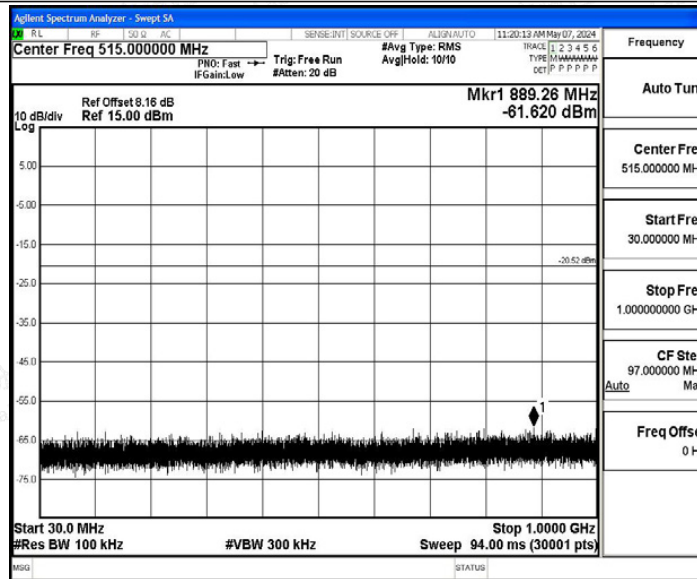
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-0.52	-61.62	≤ -20.52	PASS
			1000~26500	-0.52	-48.86	≤ -20.52	PASS
		2441	30~1000	-0.75	-62.03	≤ -20.75	PASS
			1000~26500	-0.75	-49.13	≤ -20.75	PASS
		2480	30~1000	-0.75	-61.97	≤ -20.75	PASS
			1000~26500	-0.75	-48.33	≤ -20.75	PASS
2DH5	Ant1	2402	30~1000	-4.96	-61.39	≤ -24.96	PASS
			1000~26500	-4.96	-49.04	≤ -24.96	PASS
		2441	30~1000	-1.40	-61.63	≤ -21.4	PASS
			1000~26500	-1.40	-49.3	≤ -21.4	PASS
		2480	30~1000	-1.81	-61.5	≤ -21.81	PASS
			1000~26500	-1.81	-48.63	≤ -21.81	PASS
3DH5	Ant1	2402	30~1000	-4.85	-61.58	≤ -24.85	PASS
			1000~26500	-4.85	-49.32	≤ -24.85	PASS
		2441	30~1000	-1.30	-61.75	≤ -21.3	PASS
			1000~26500	-1.30	-49.18	≤ -21.3	PASS
		2480	30~1000	-1.11	-60.97	≤ -21.11	PASS
			1000~26500	-1.11	-49.14	≤ -21.11	PASS



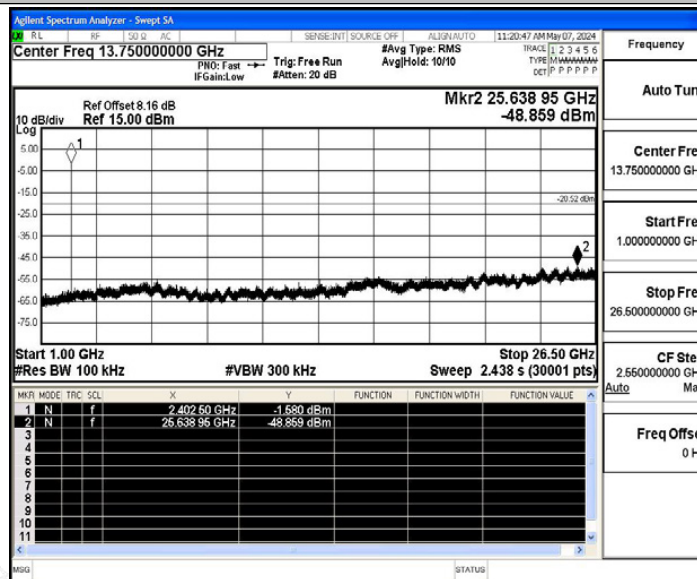


Test Graphs

DH5_Ant1_2402_30~1000

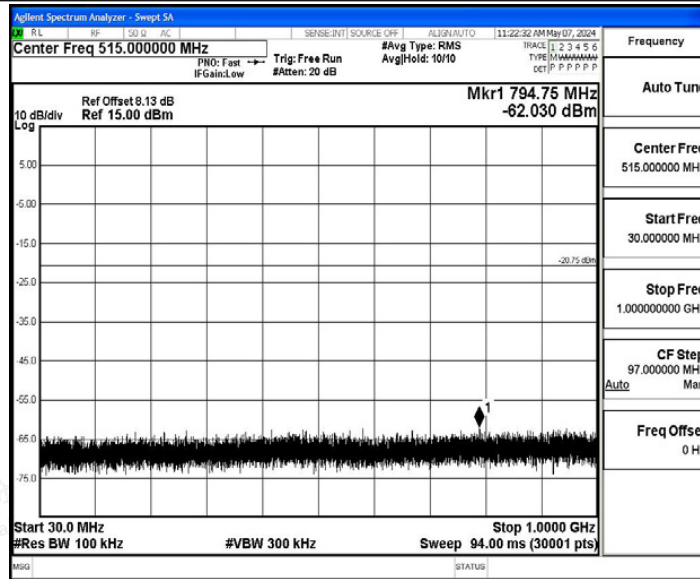


DH5_Ant1_2402_1000~26500

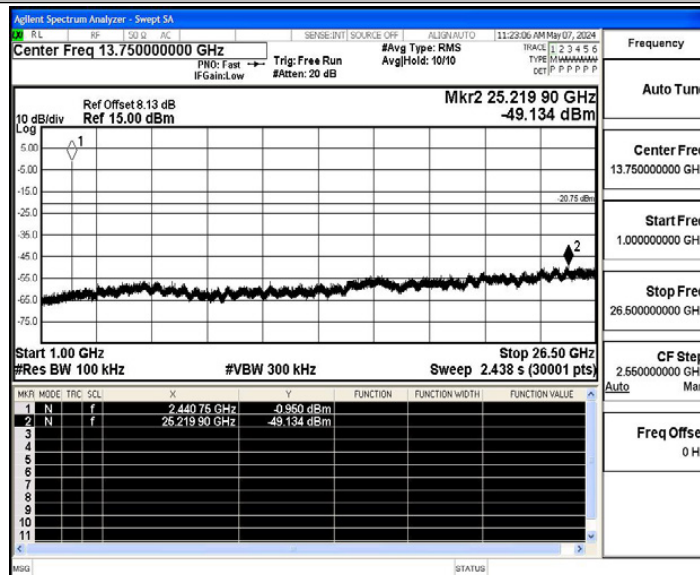


DH5_Ant1_2441_30~1000



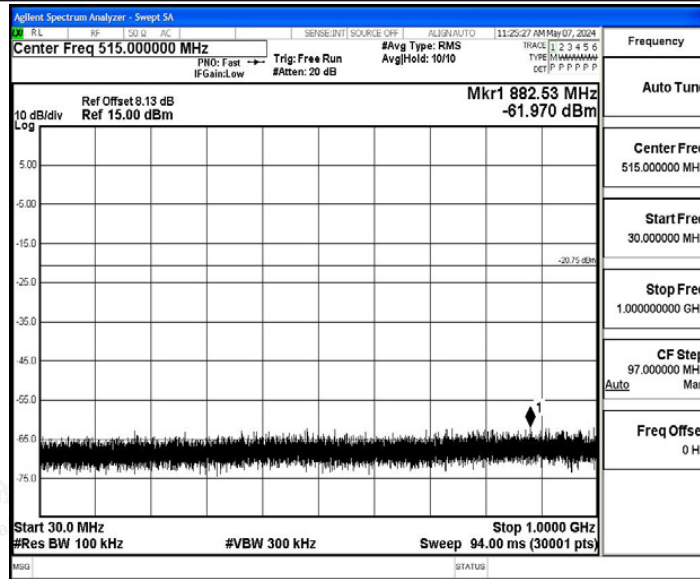


DH5_Ant1_2441_1000~26500

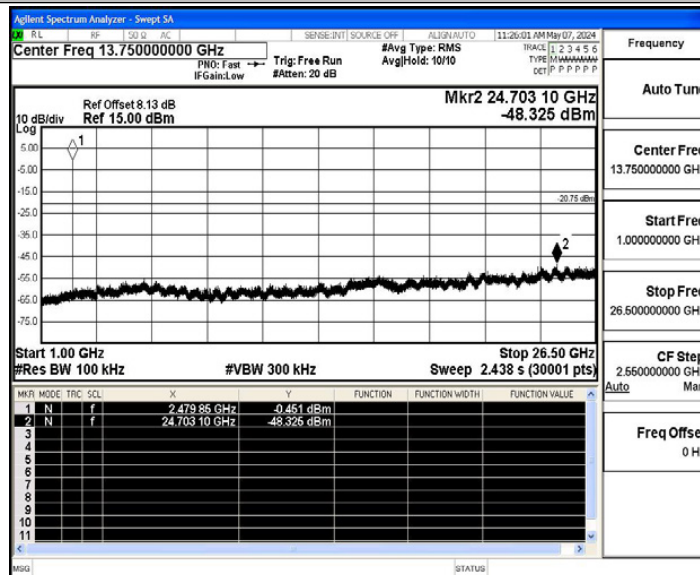


DH5_Ant1_2480_30~1000



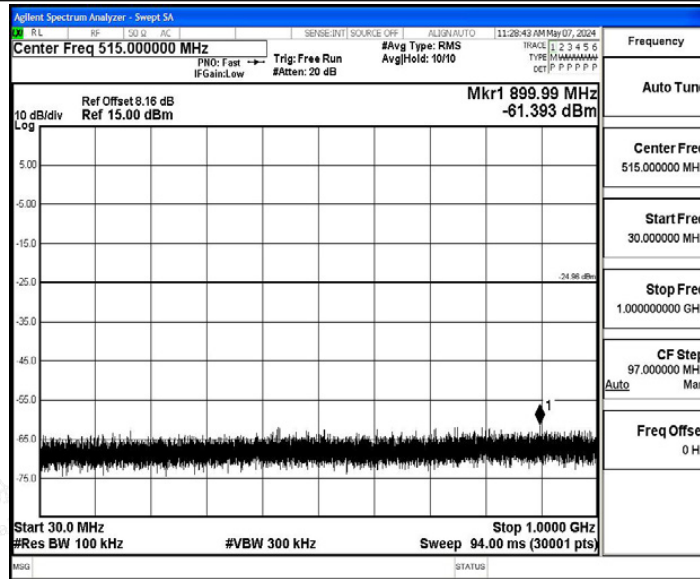


DH5_Ant1_2480_1000~26500

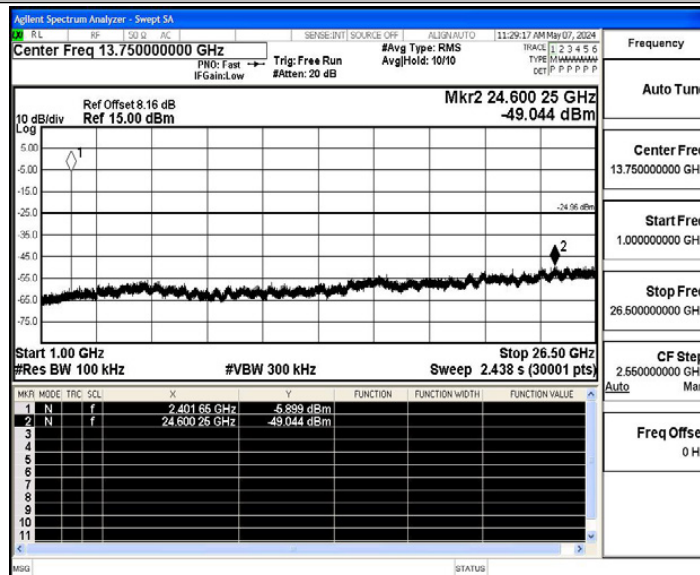


2DH5_Ant1_2402_30~1000



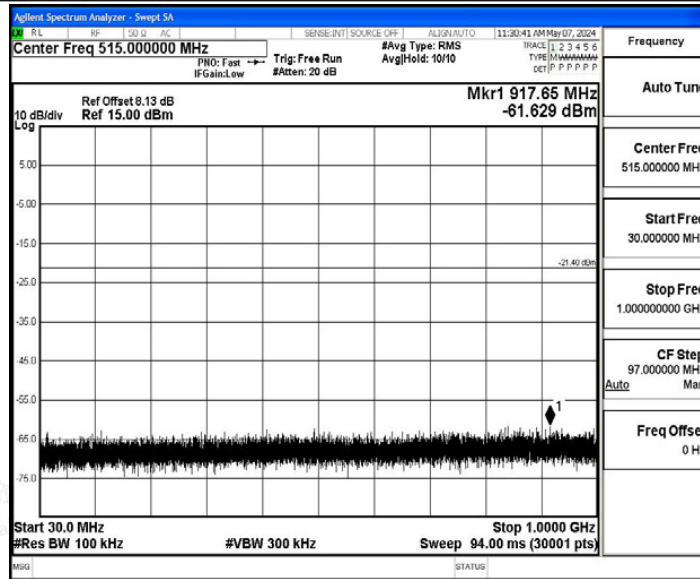


2DH5_Ant1_2402_1000~26500

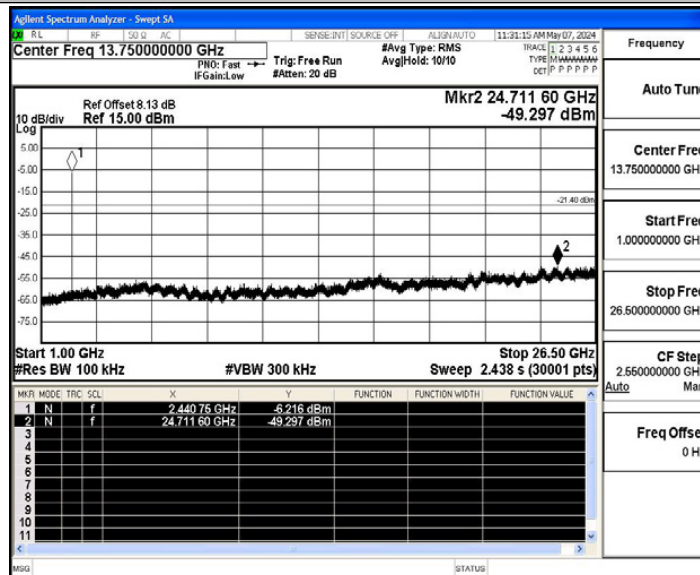


2DH5_Ant1_2441_30~1000



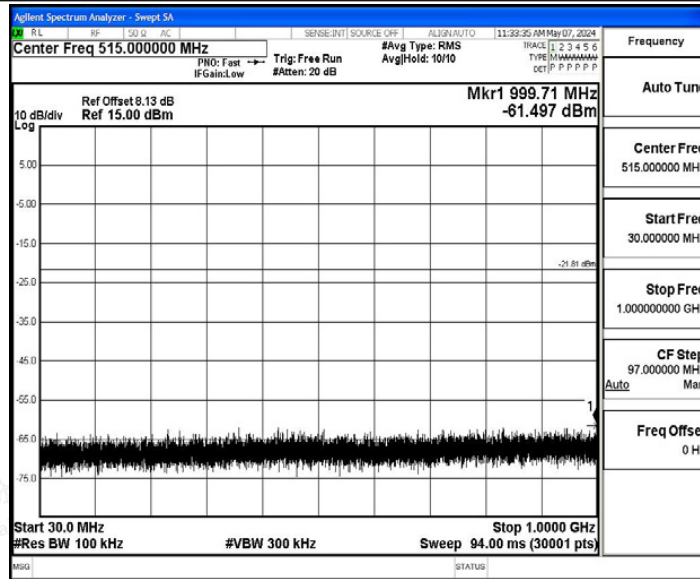


2DH5_Ant1_2441_1000~26500

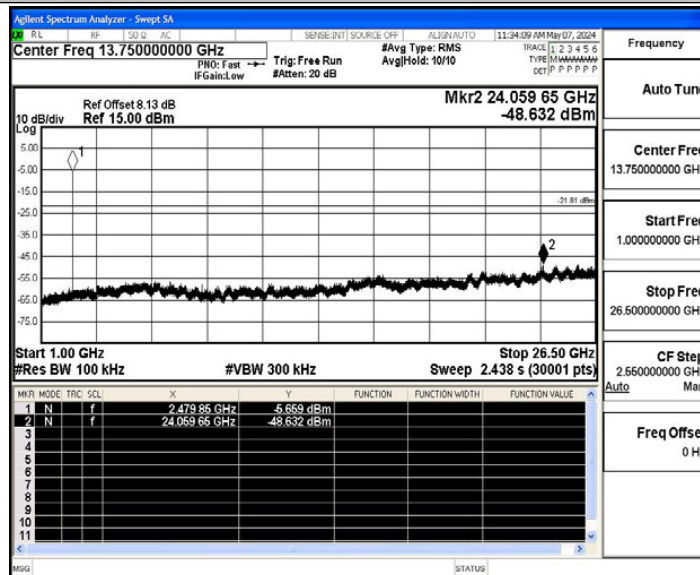


2DH5_Ant1_2480_30~1000





2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_30~1000

