



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Home Theatre System

Test Model: V60087BT

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan





A.1 20dB Emission Bandwidth

Test Result

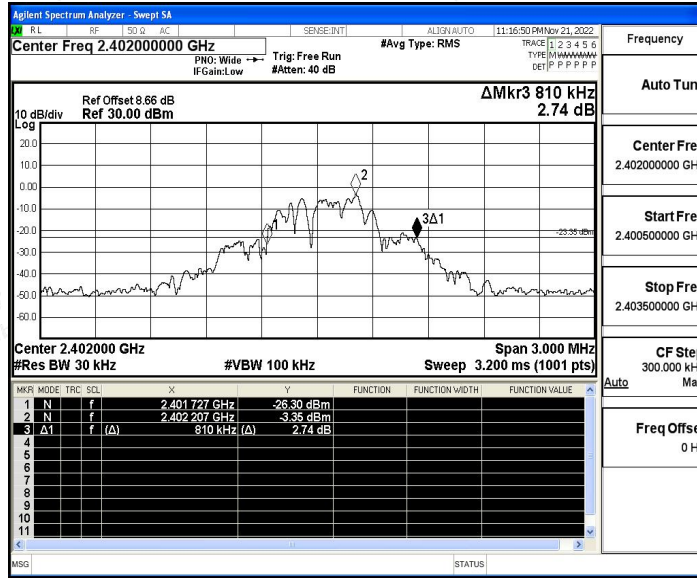
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.810	2401.727	2402.537	---
		2441	0.726	2440.631	2441.357	---
		2480	0.843	2479.682	2480.525	---





Test Graphs

DH5_Ant1_2402

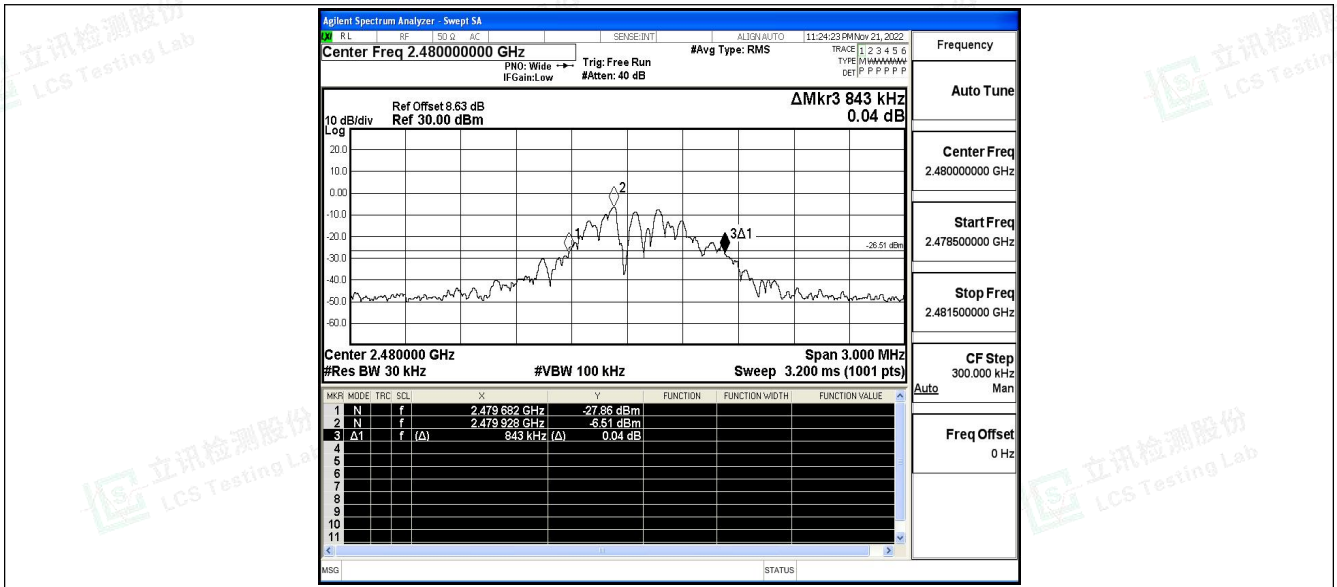


DH5_Ant1_2441



DH5_Ant1_2480







A.2 Maximum conducted output power

Test Result

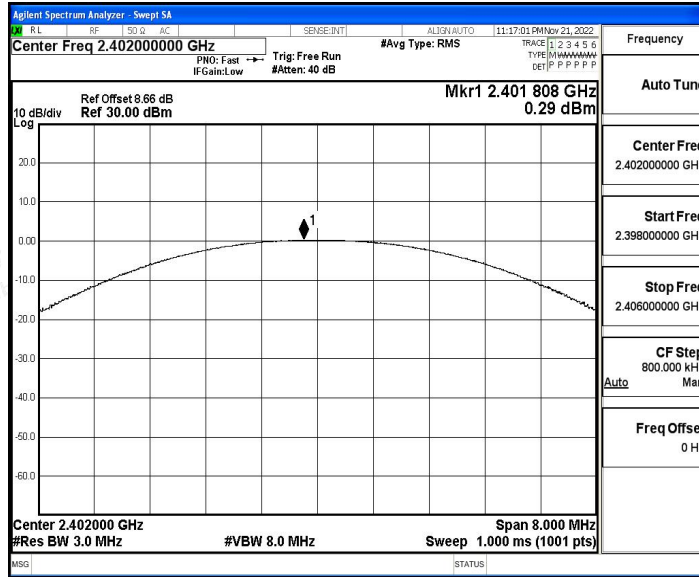
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.29	≤20.97	PASS
		2441	-0.71	≤20.97	PASS
		2480	-1.73	≤20.97	PASS



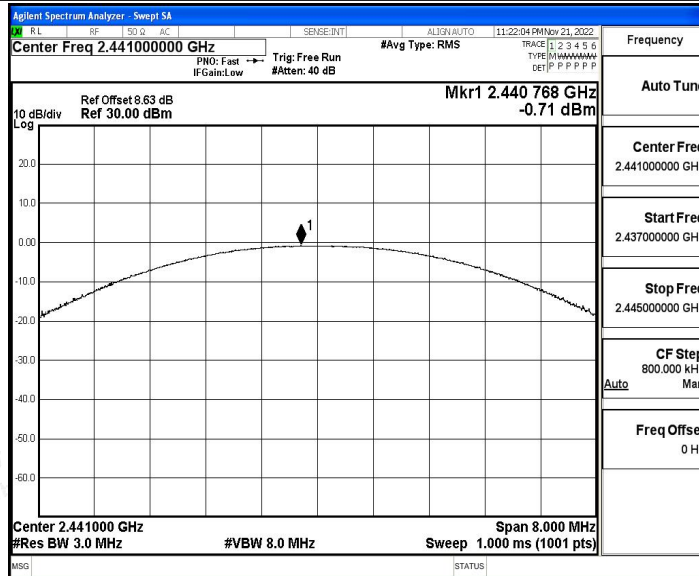


Test Graphs

DH5_Ant1_2402

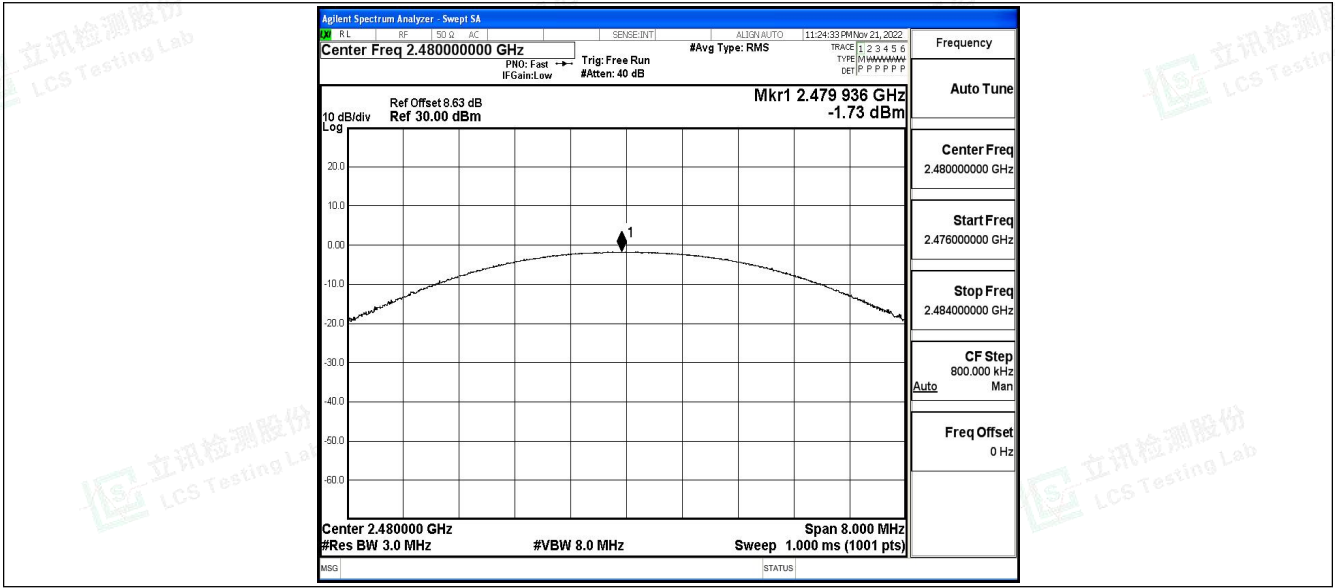


DH5_Ant1_2441



DH5_Ant1_2480





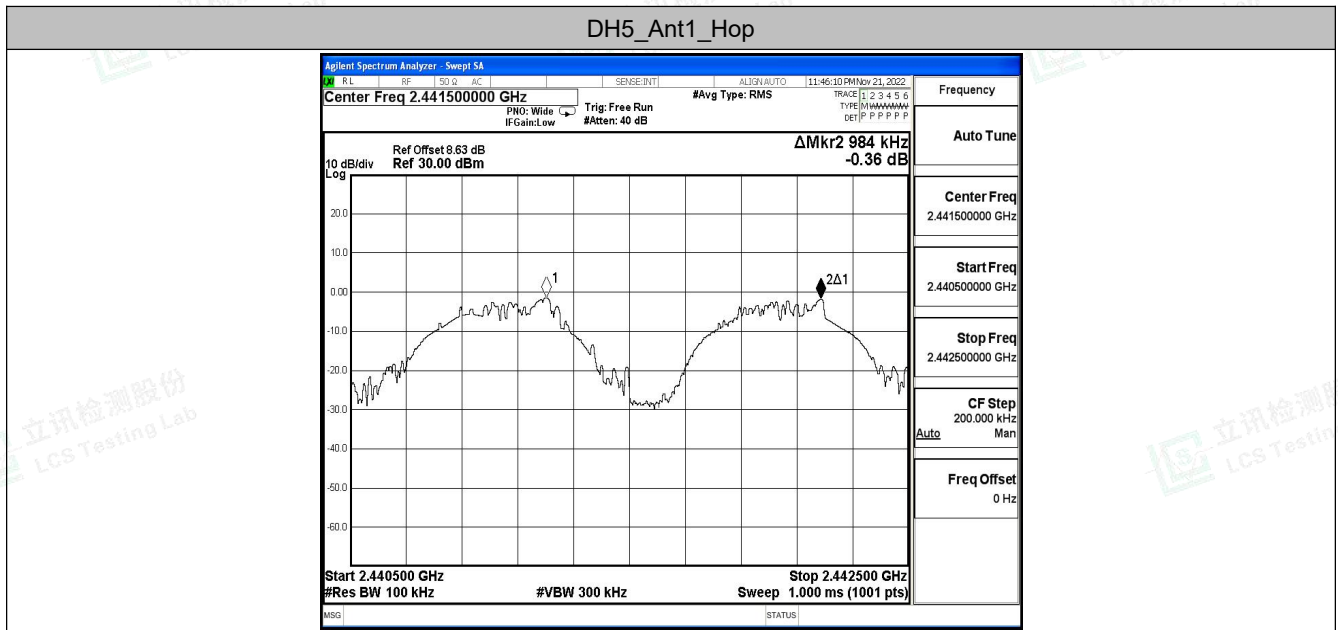


A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.984	≥0.562	PASS

Test Graphs



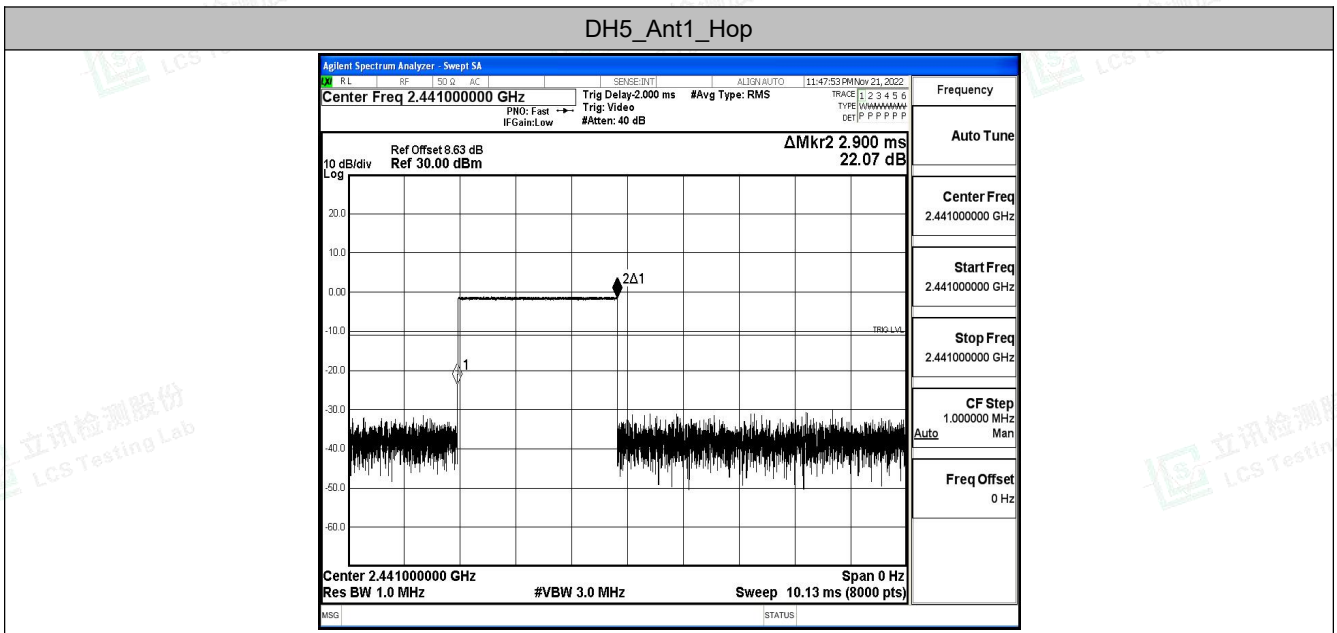


A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.90	106.67	0.309	≤0.4	PASS

Test Graphs



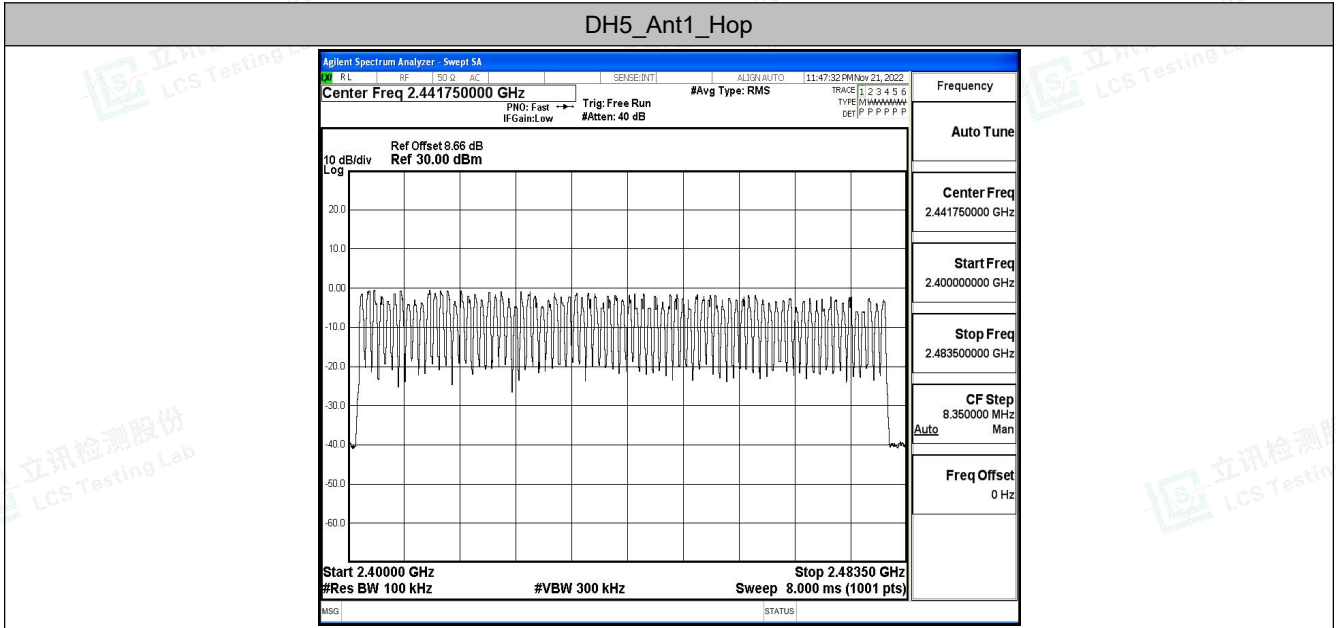


A.5 Number of hopping channels

Test Result

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

Test Graphs





A.6 Band edge measurements

Test Result

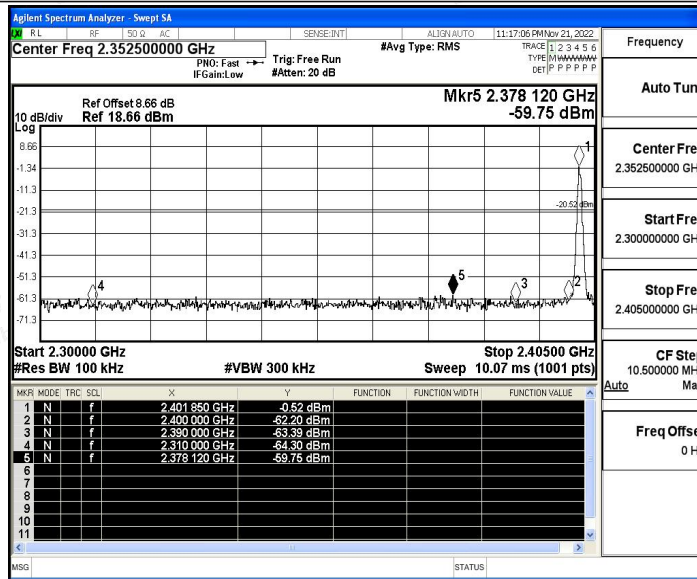
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.52	-59.75	≤-20.52	PASS
		High	2480	-6.18	-59.32	≤-26.18	PASS
		Low	Hop_2402	-1.44	-58.82	≤-21.44	PASS
		High	Hop_2480	-2.49	-57.63	≤-22.49	PASS



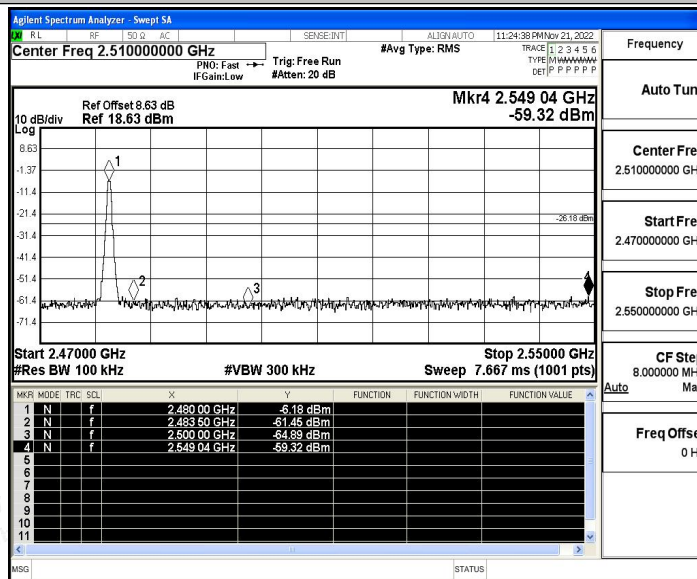


Test Graphs

DH5_Ant1_Low_2402

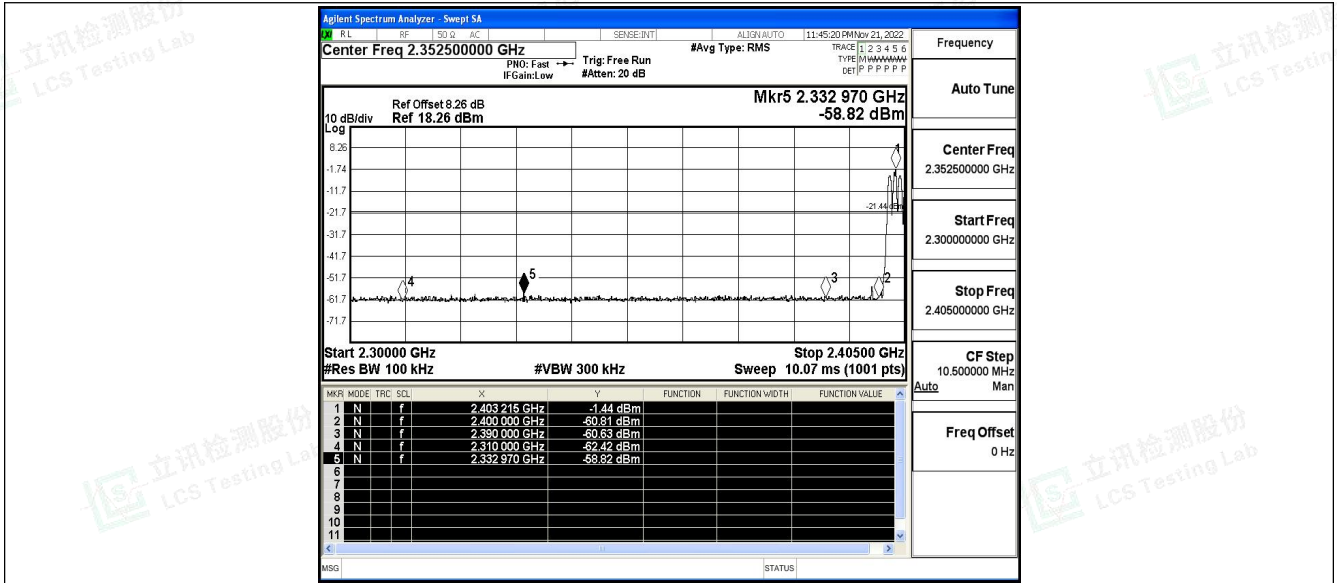


DH5_Ant1_High_2480

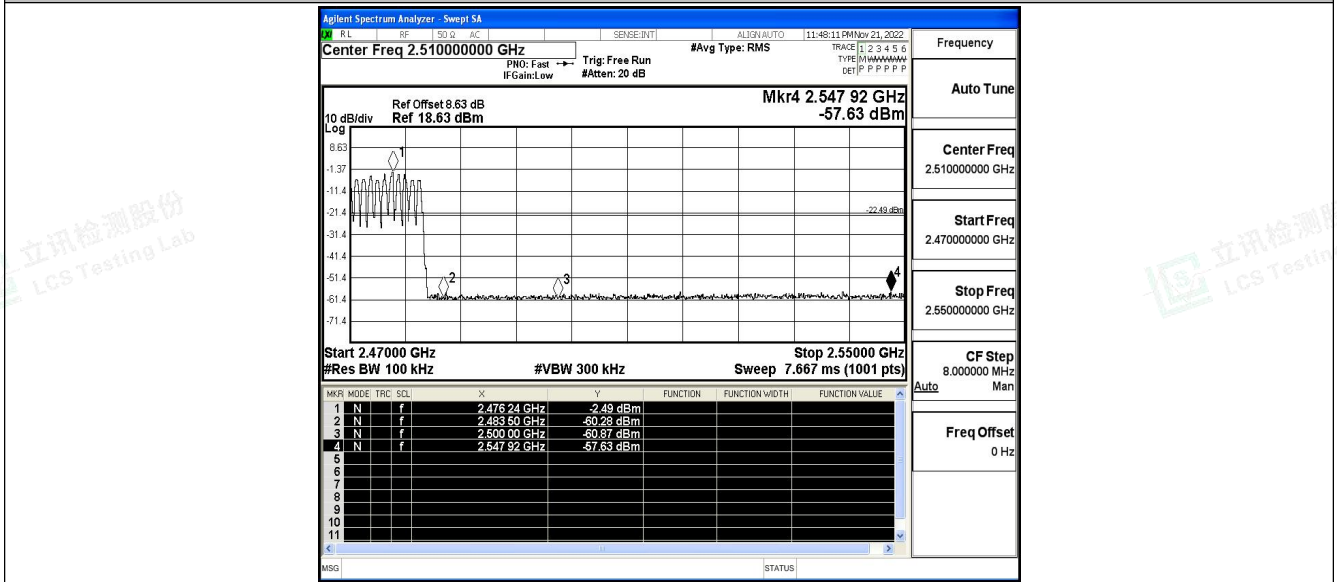


DH5_Ant1_Low_Hop_2402





DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

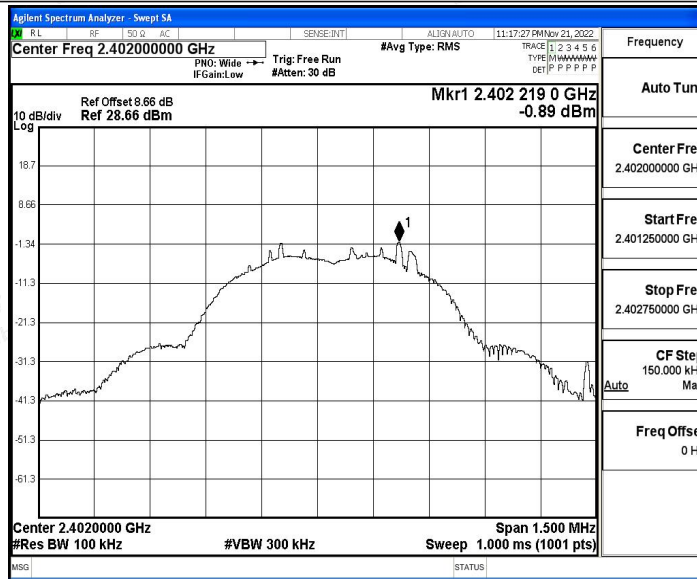
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-60.71	≤-20.89	PASS
			1000~26500	-0.89	-45.13	≤-20.89	PASS
		2441	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-60.31	≤-22.29	PASS
			1000~26500	-2.29	-45.61	≤-22.29	PASS
		2480	Reference	-6.62	-6.62	---	PASS
			30~1000	-6.62	-60.3	≤-26.62	PASS
			1000~26500	-6.62	-45.96	≤-26.62	PASS



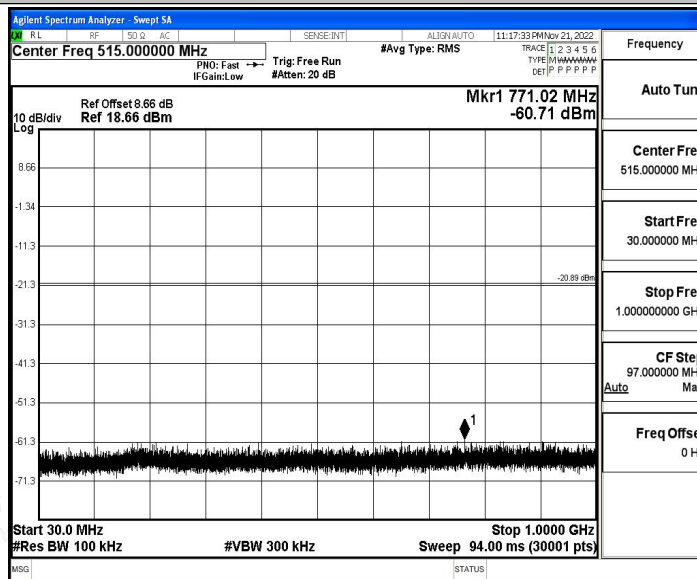


Test Graphs

DH5_Ant1_2402_0~Reference

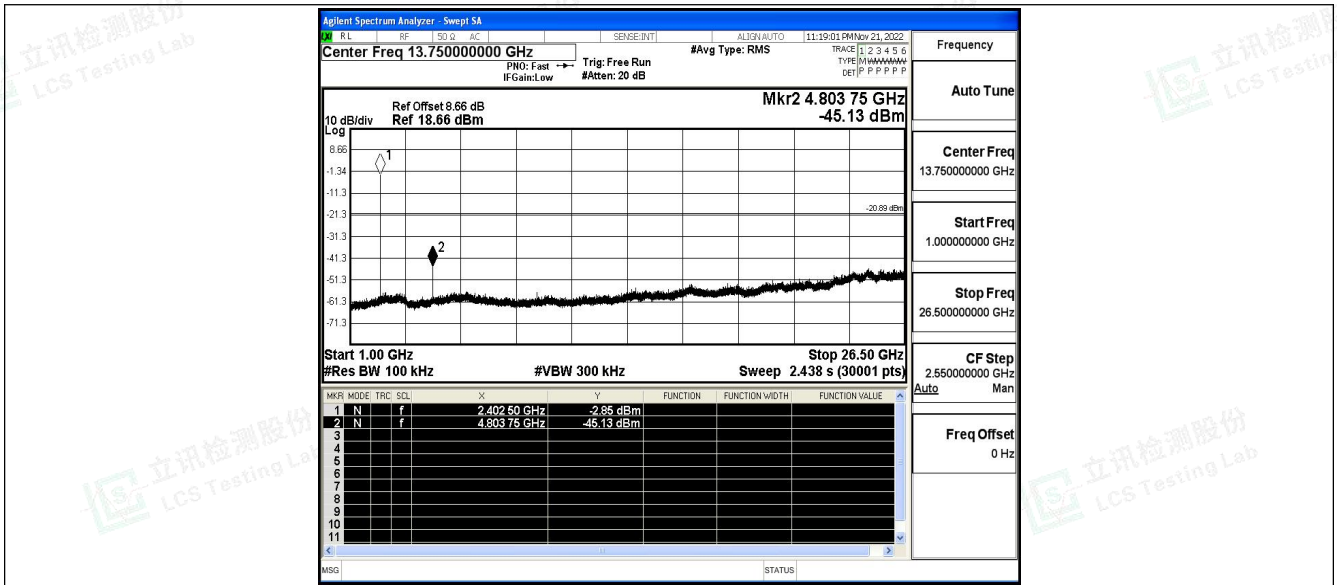


DH5_Ant1_2402_30~1000

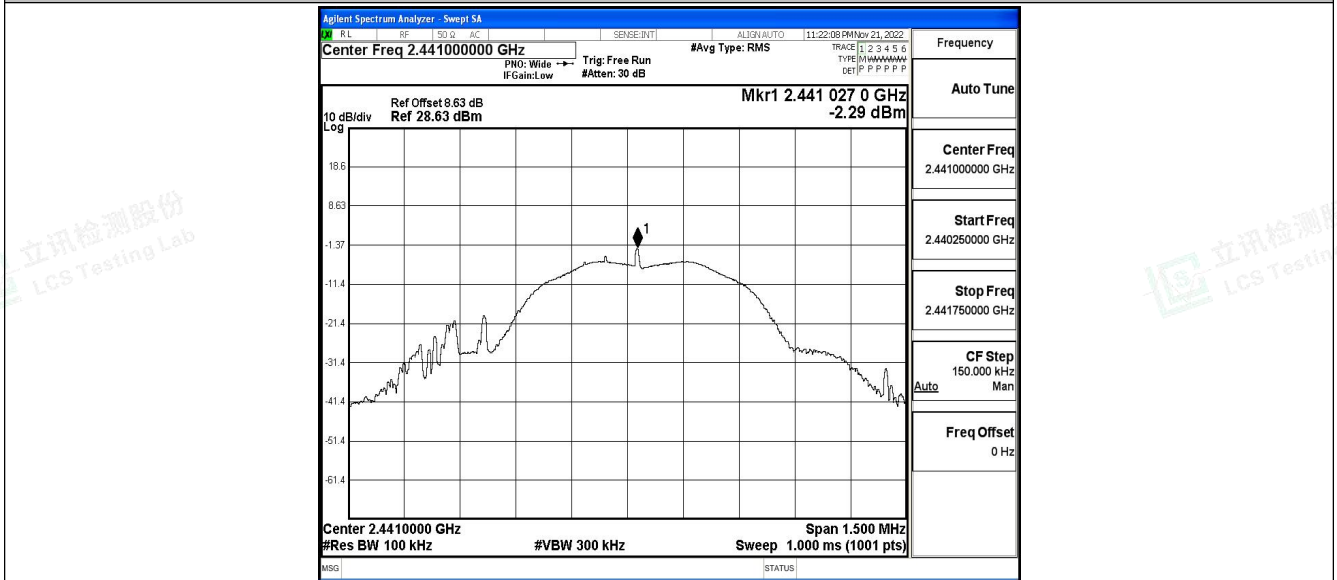


DH5_Ant1_2402_1000~26500



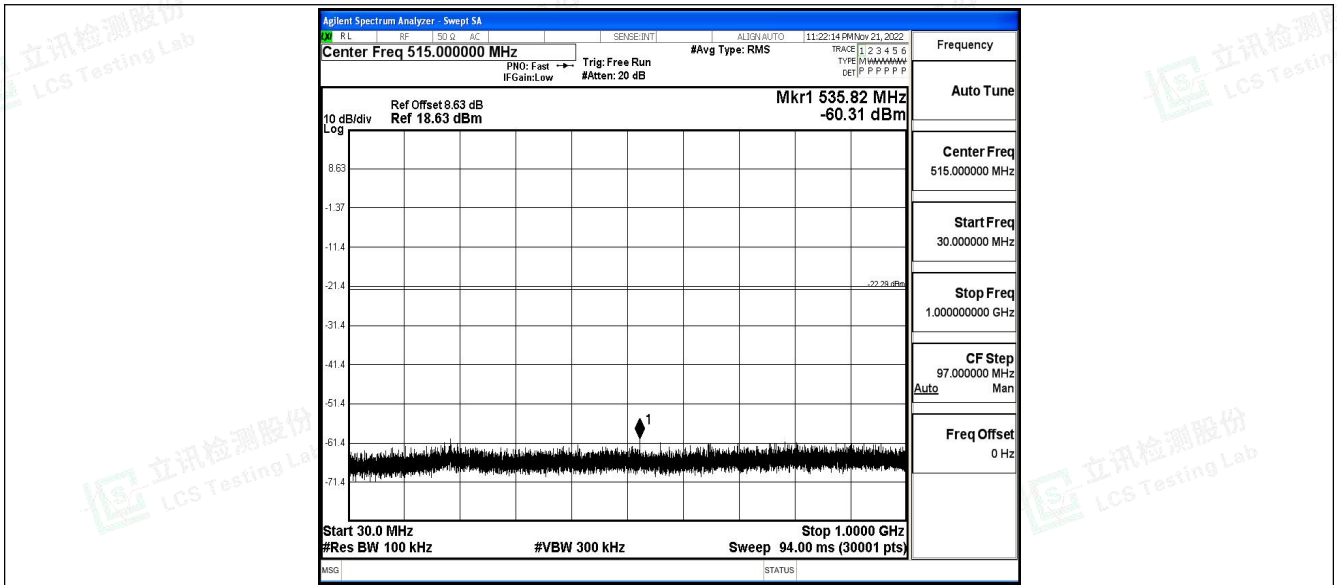


DH5_Ant1_2441_0~Reference

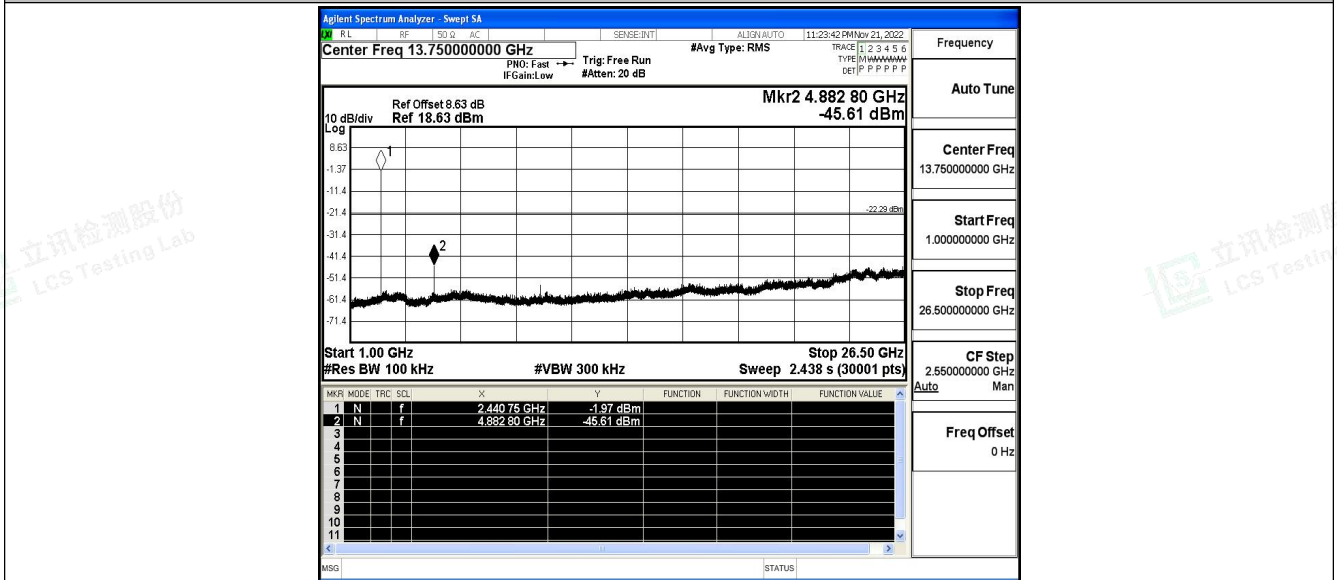


DH5_Ant1_2441_30~1000



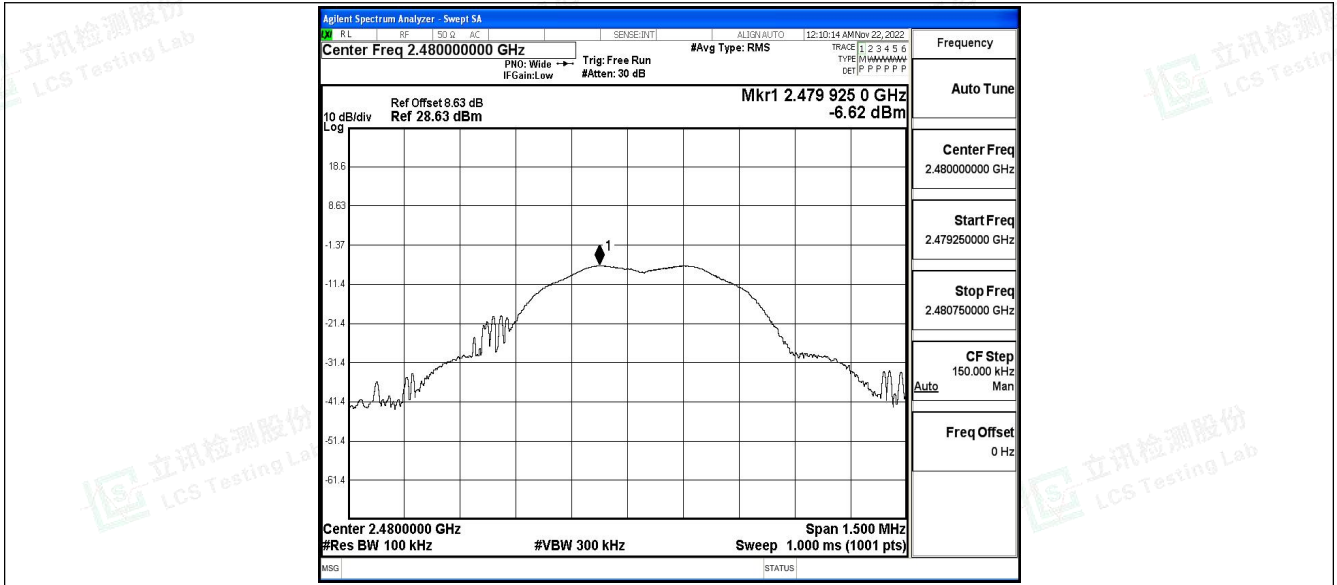


DH5_Ant1_2441_1000~26500

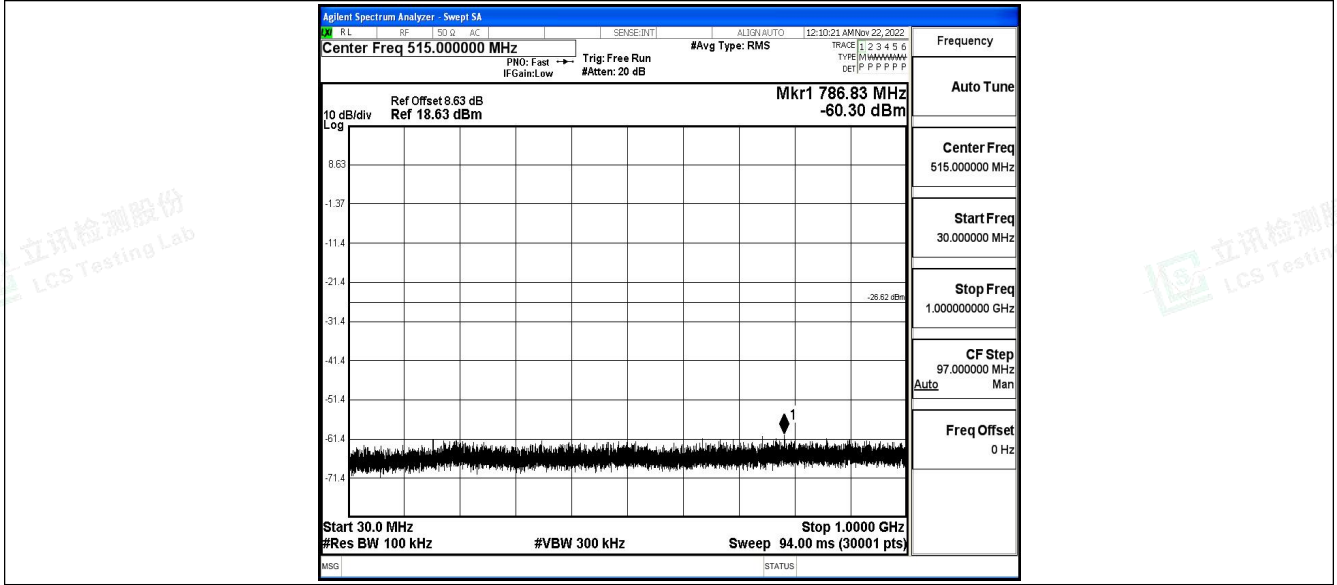


DH5_Ant1_2480_0~Reference



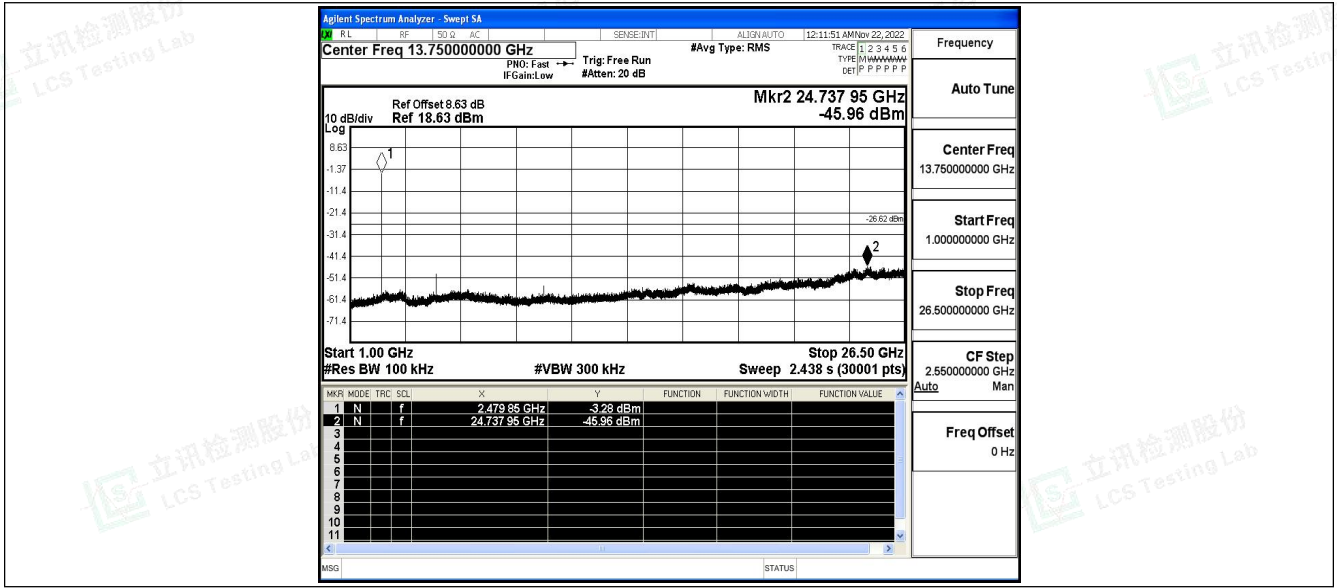


DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500







A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-58.2	≤-41.20	37.00	≤54	PASS
				AV	2376.125	-56.77	≤-41.20	38.43	≤54	PASS
				AV	2390.000	-57.78	≤-41.20	37.42	≤54	PASS
				Peak	2310.000	-51.38	≤-21.20	43.82	≤74	PASS
				Peak	2313.650	-48.57	≤-21.20	46.63	≤74	PASS
				Peak	2390.000	-51.89	≤-21.20	43.31	≤74	PASS
		High	2480	AV	2483.500	-55.59	≤-41.20	39.61	≤54	PASS
				AV	2483.520	-55.59	≤-41.20	39.61	≤54	PASS
				AV	2500.000	-57.15	≤-41.20	38.05	≤54	PASS
				Peak	2483.500	-51.5	≤-21.20	43.70	≤74	PASS
				Peak	2489.920	-48.3	≤-21.20	46.90	≤74	PASS
				Peak	2500.000	-52.02	≤-21.20	43.18	≤74	PASS

Note:

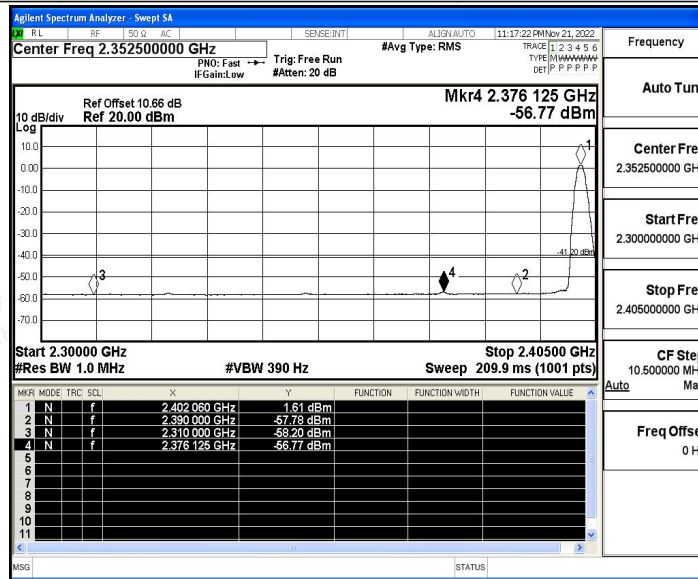
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



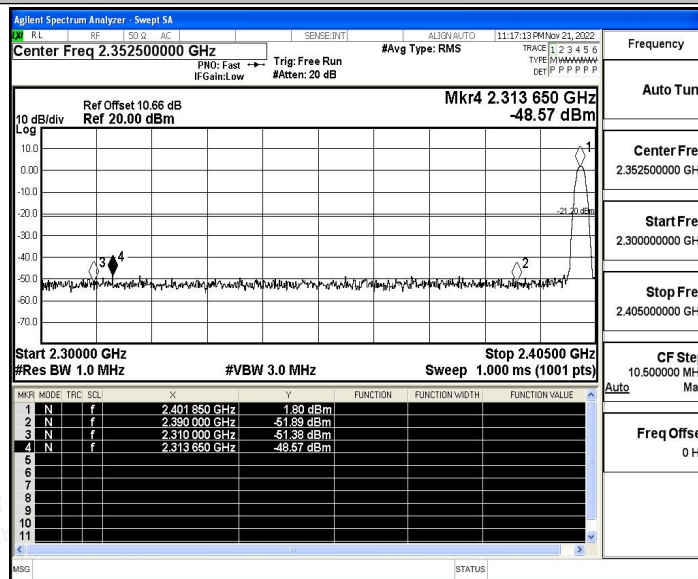


Test Graphs

DH5_Ant1_Low_2402_AV

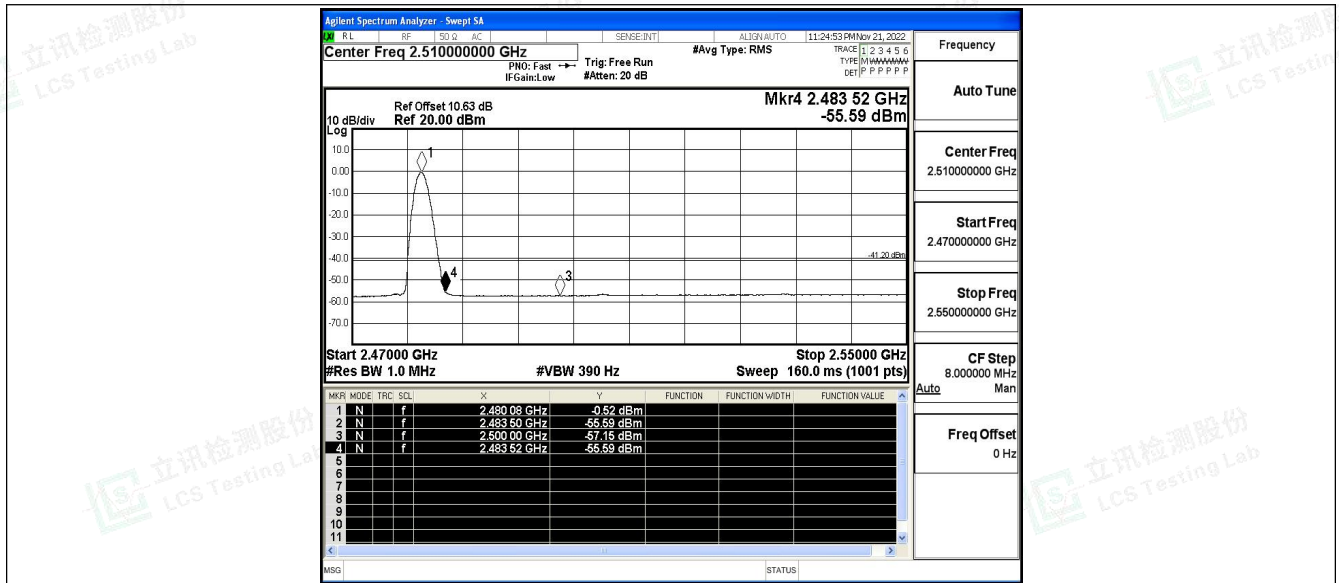


DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV





DH5_Ant1_High_2480_Peak

