



Appendix E for BT Test Data

Product Name: Magnetic Bluetooth headphone amplifier

Test Model: Tea

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	kayhu
Supervised by:	Libu





E.1 RF Output Power

Test Result

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	DH5	Ant1	Hop	8.17	20	PASS
	2DH5	Ant1	Hop	7.31	20	PASS
	3DH5	Ant1	Hop	7.09	20	PASS

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	DH5	Ant1	Hop	8.14	20	PASS
	2DH5	Ant1	Hop	7.14	20	PASS
	3DH5	Ant1	Hop	6.97	20	PASS

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	DH5	Ant1	Hop	7.08	20	PASS
	2DH5	Ant1	Hop	6.23	20	PASS
	3DH5	Ant1	Hop	5.98	20	PASS

***Note: 20 bursts had been captured for power measurement.



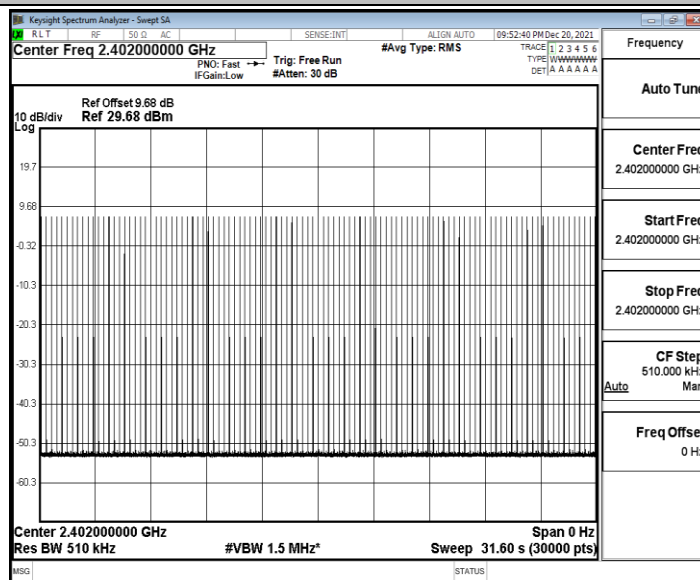


E.2 Accumulated Transmit Time

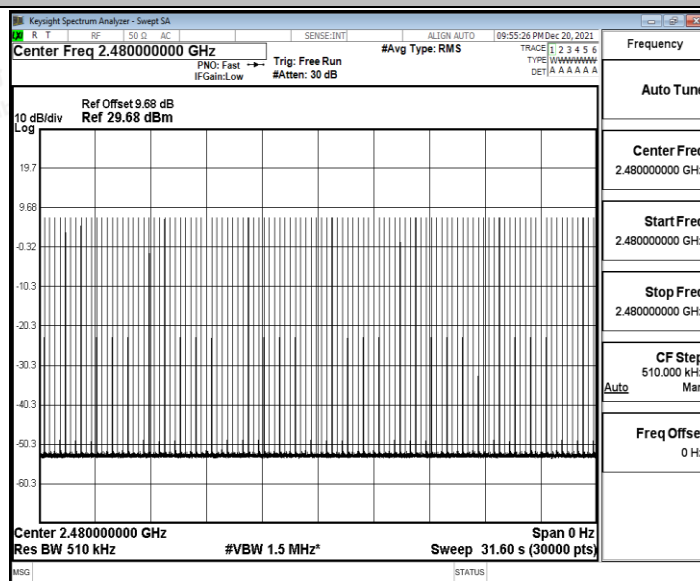
TestMode	Antenna	Channel	Result [ms]	Limit[ms]	Verdict
DH5	Ant1	Hop_2402	308.646	400	PASS
		Hop_2480	307.593	400	PASS
2DH5	Ant1	Hop_2402	309.700	400	PASS
		Hop_2480	309.700	400	PASS
3DH5	Ant1	Hop_2402	310.753	400	PASS
		Hop_2480	309.700	400	PASS

Test Graphs

DH5_Ant1_Hop_2402

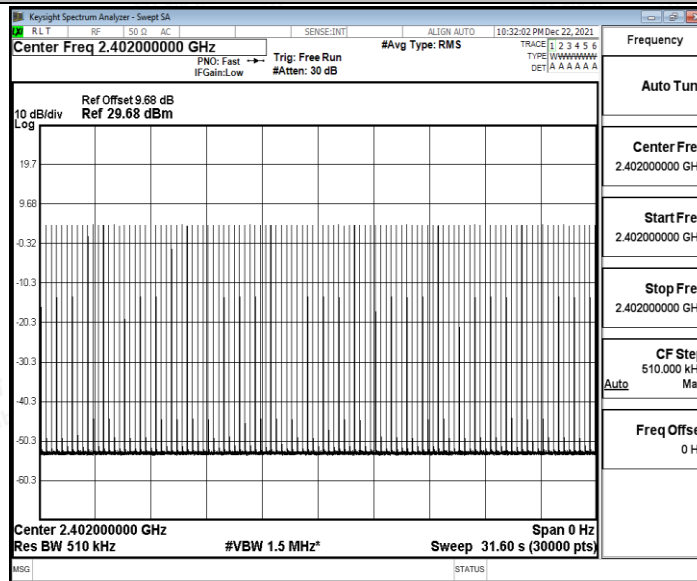


DH5_Ant1_Hop_2480

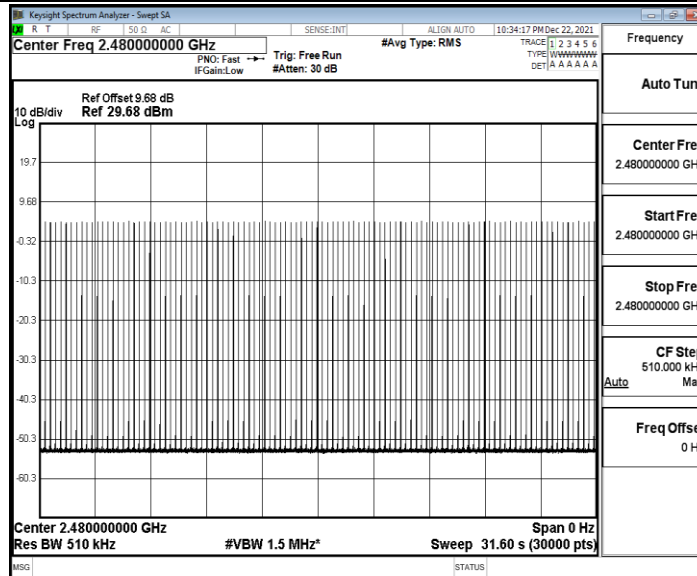




2DH5_Ant1_Hop_2402



2DH5_Ant1_Hop_2480



3DH5_Ant1_Hop_2402



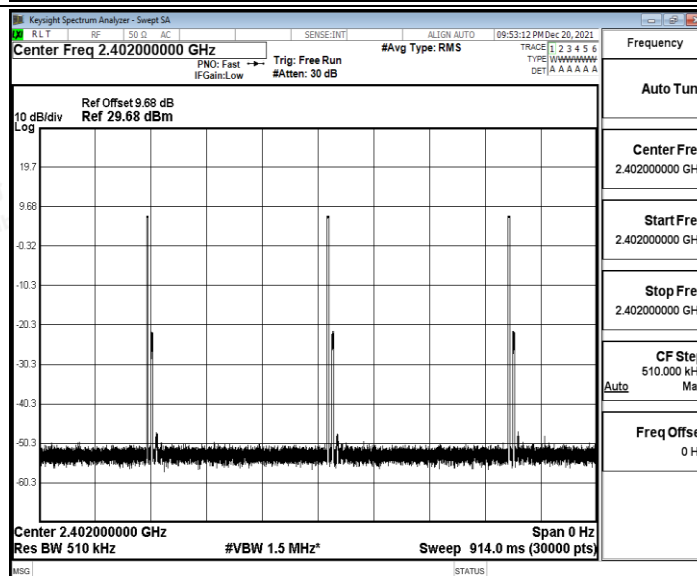
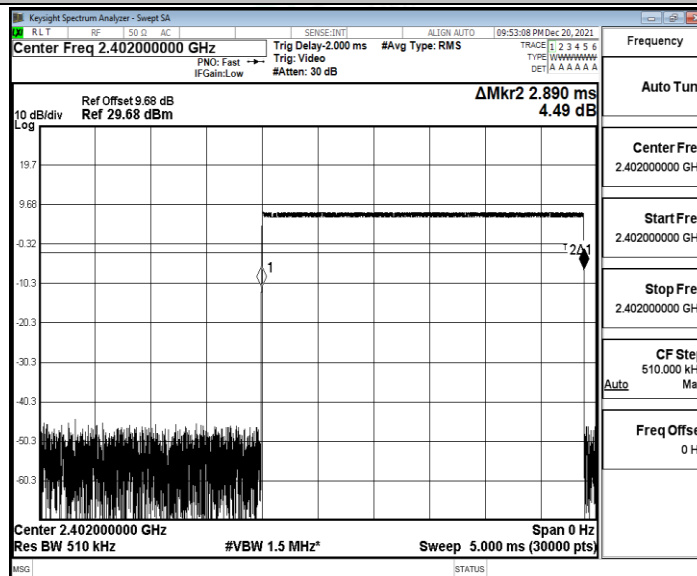




E.3 Frequency Occupation

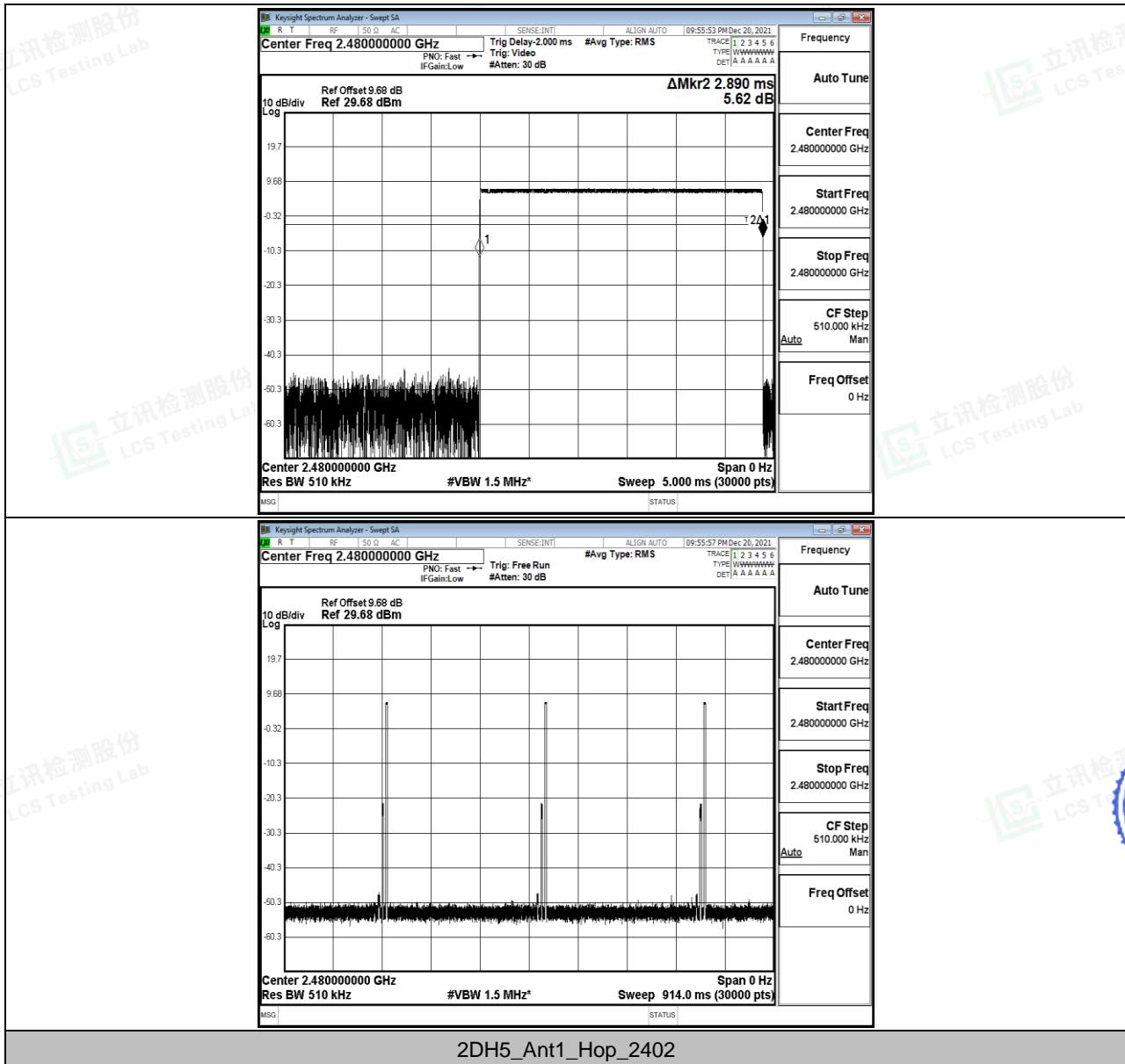
TestMode	Antenna	Channel	Result [Num.]	Limit [Num.]	Verdict
DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	3	1	PASS
2DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	3	1	PASS
3DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	3	1	PASS

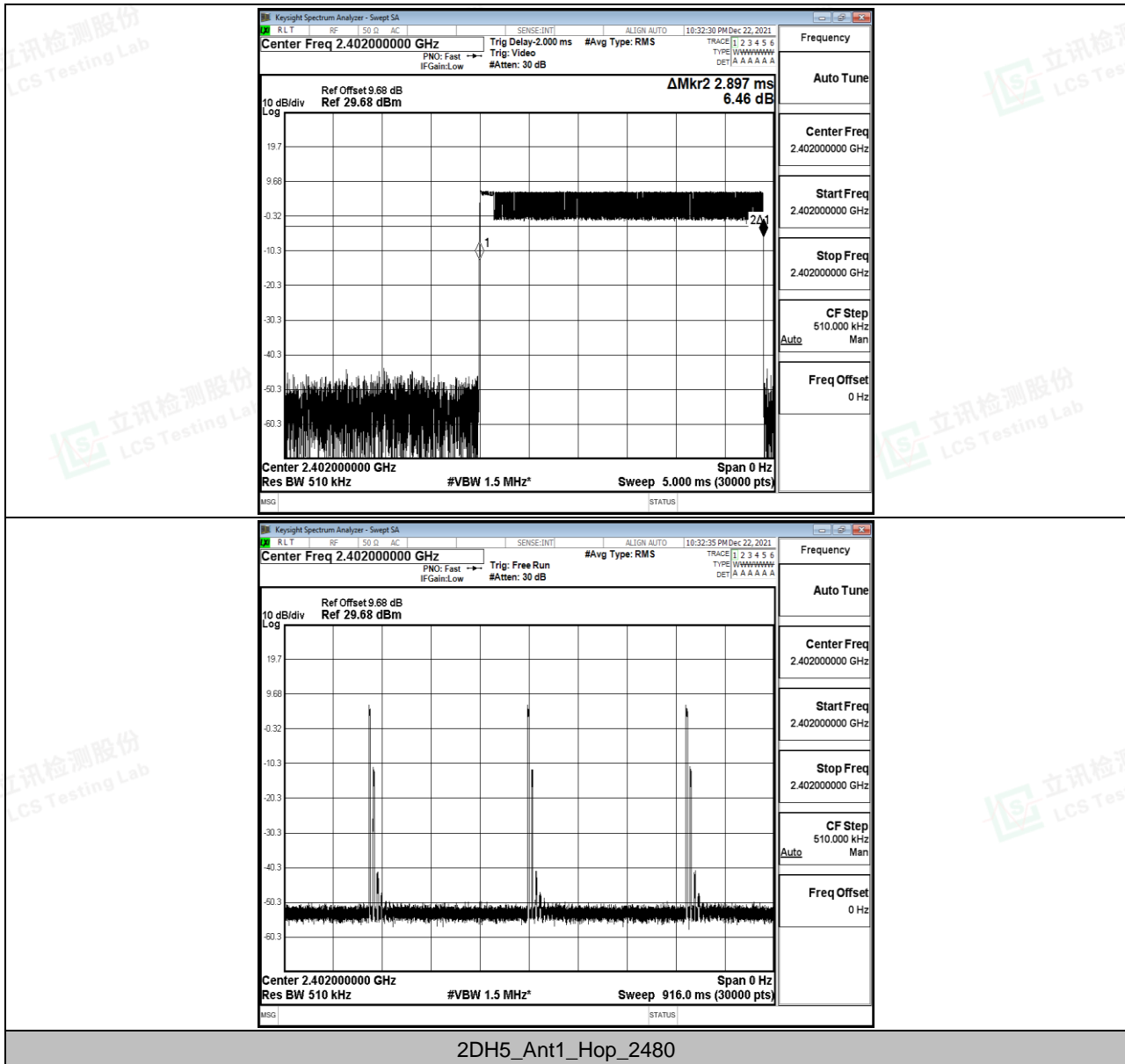
DH5_Ant1_Hop_2402

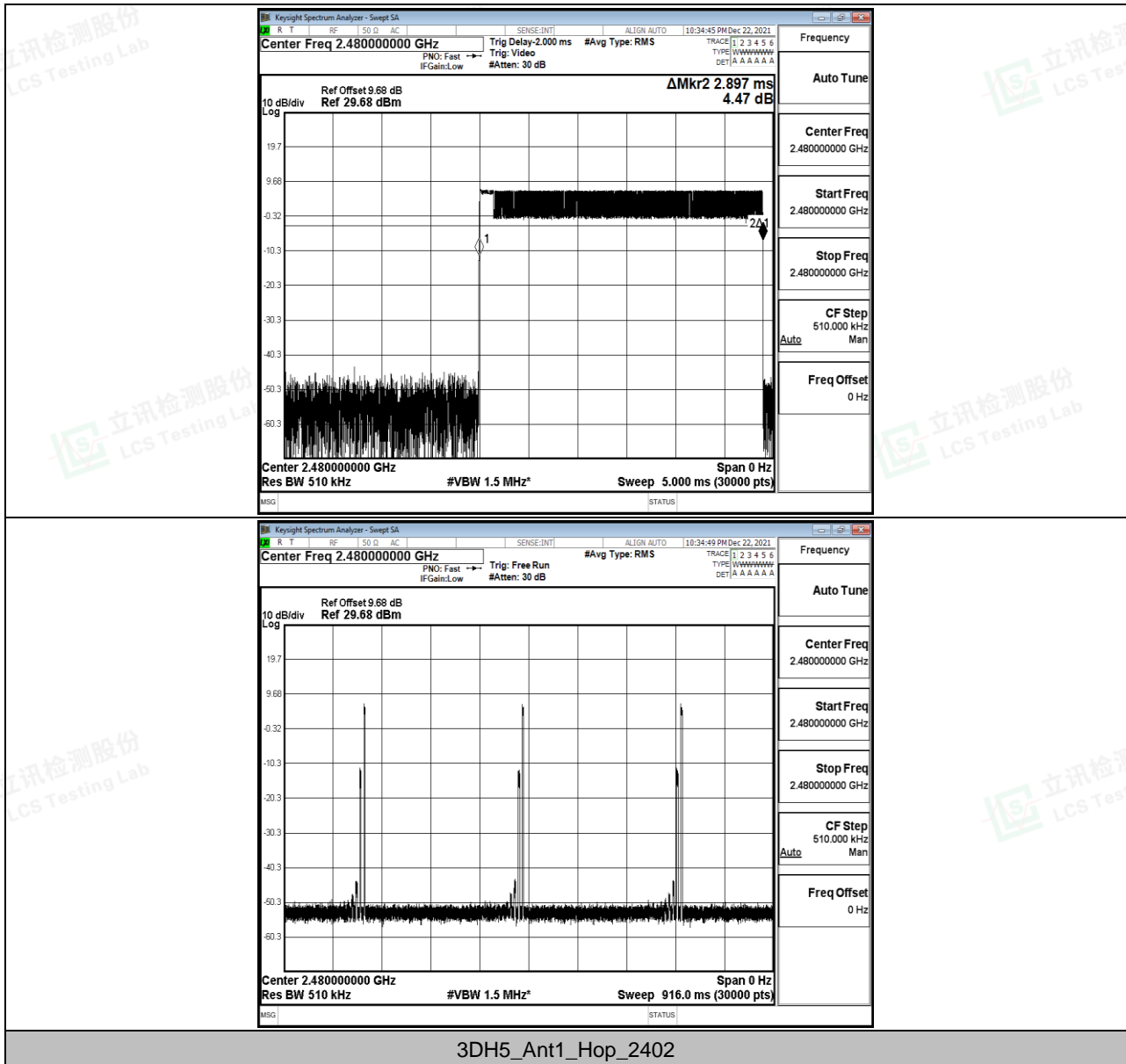


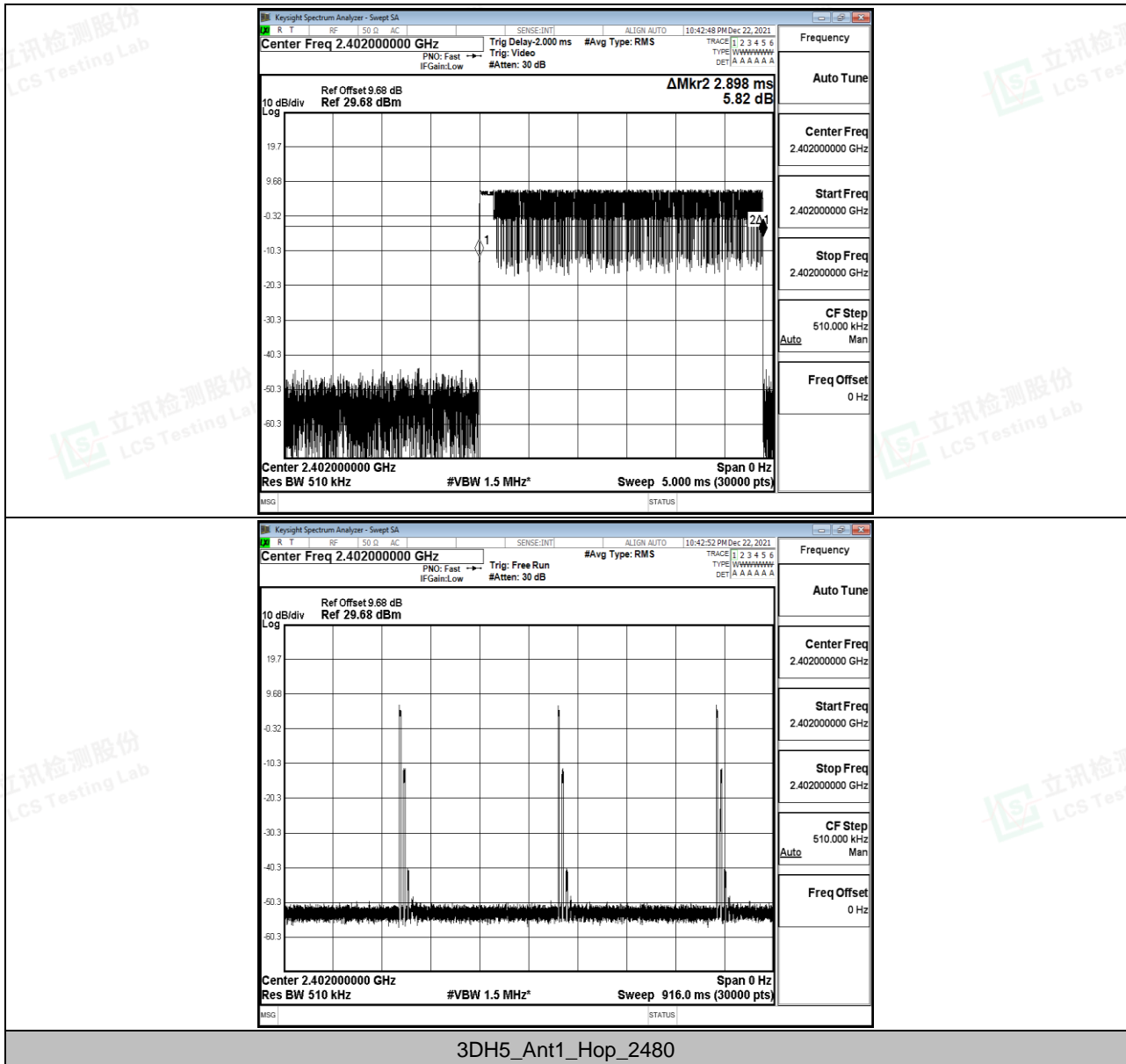
DH5_Ant1_Hop_2480

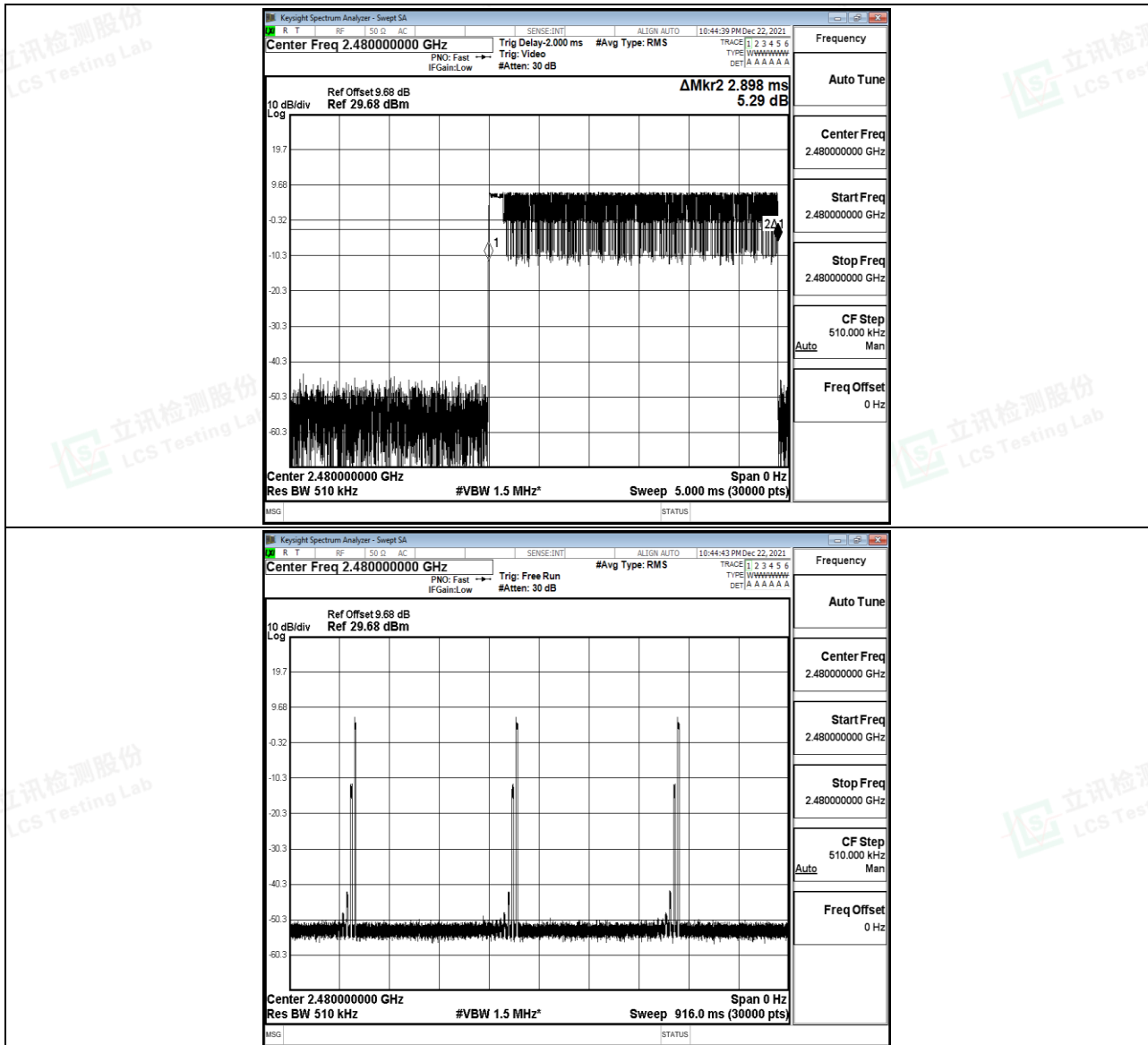








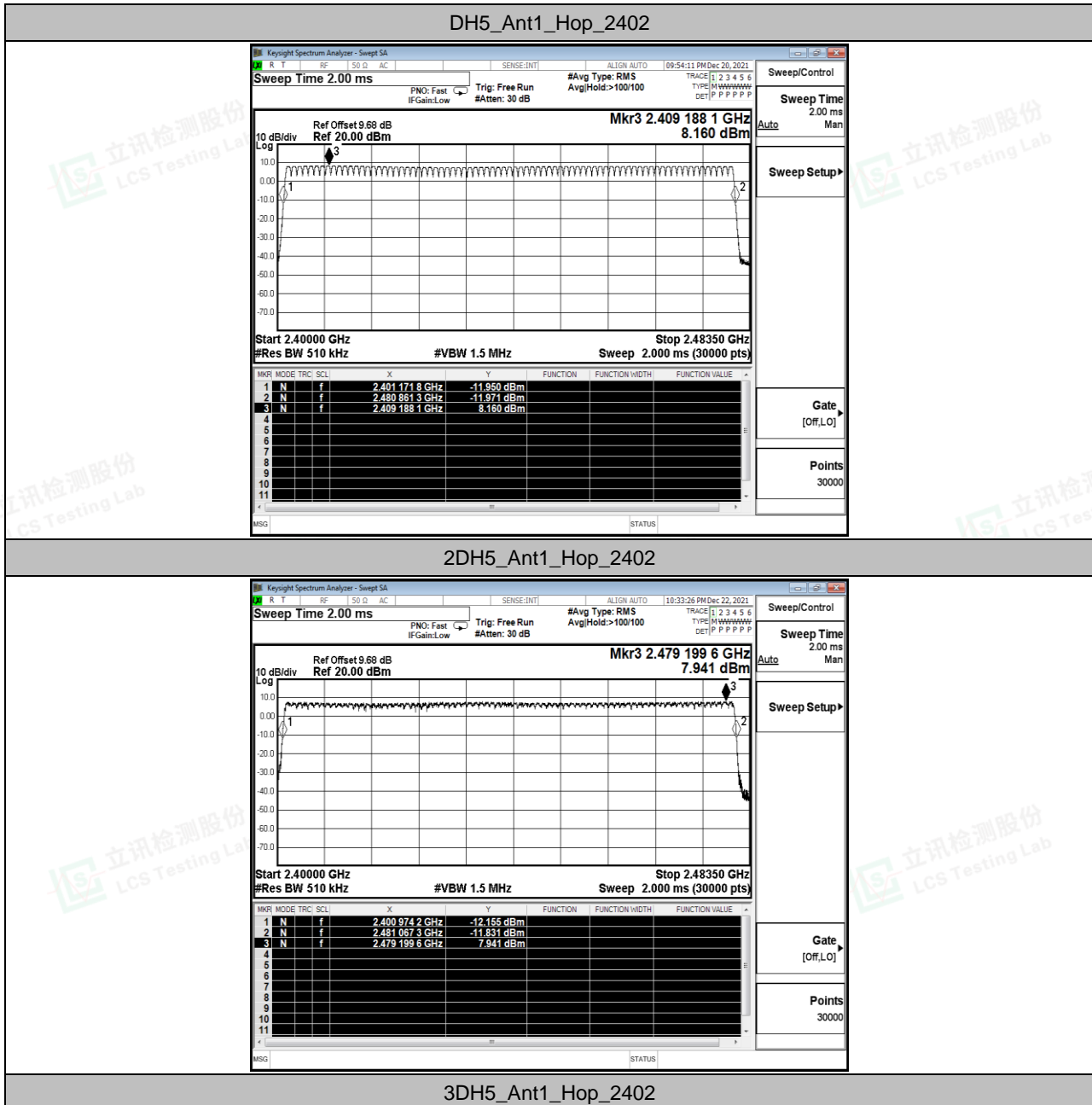






E.4 Hopping Sequence

TestMode	Antenna	Channel	Hop. [Num.]	Limit[Num.]	Band Use [%]	Limit [%]	Verdict
DH5	Ant1	Hop_2402	79	15	95.44	70	PASS
2DH5	Ant1	Hop_2402	79	15	95.92	70	PASS
3DH5	Ant1	Hop_2402	79	15	95.98	70	PASS

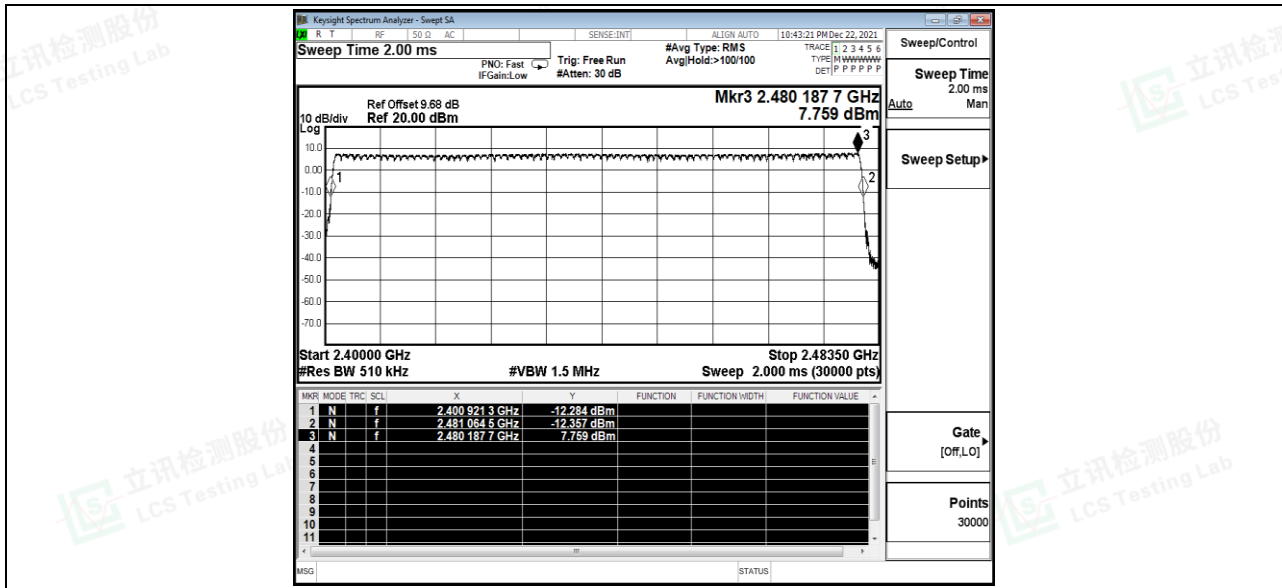


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Scan code to check authenticity



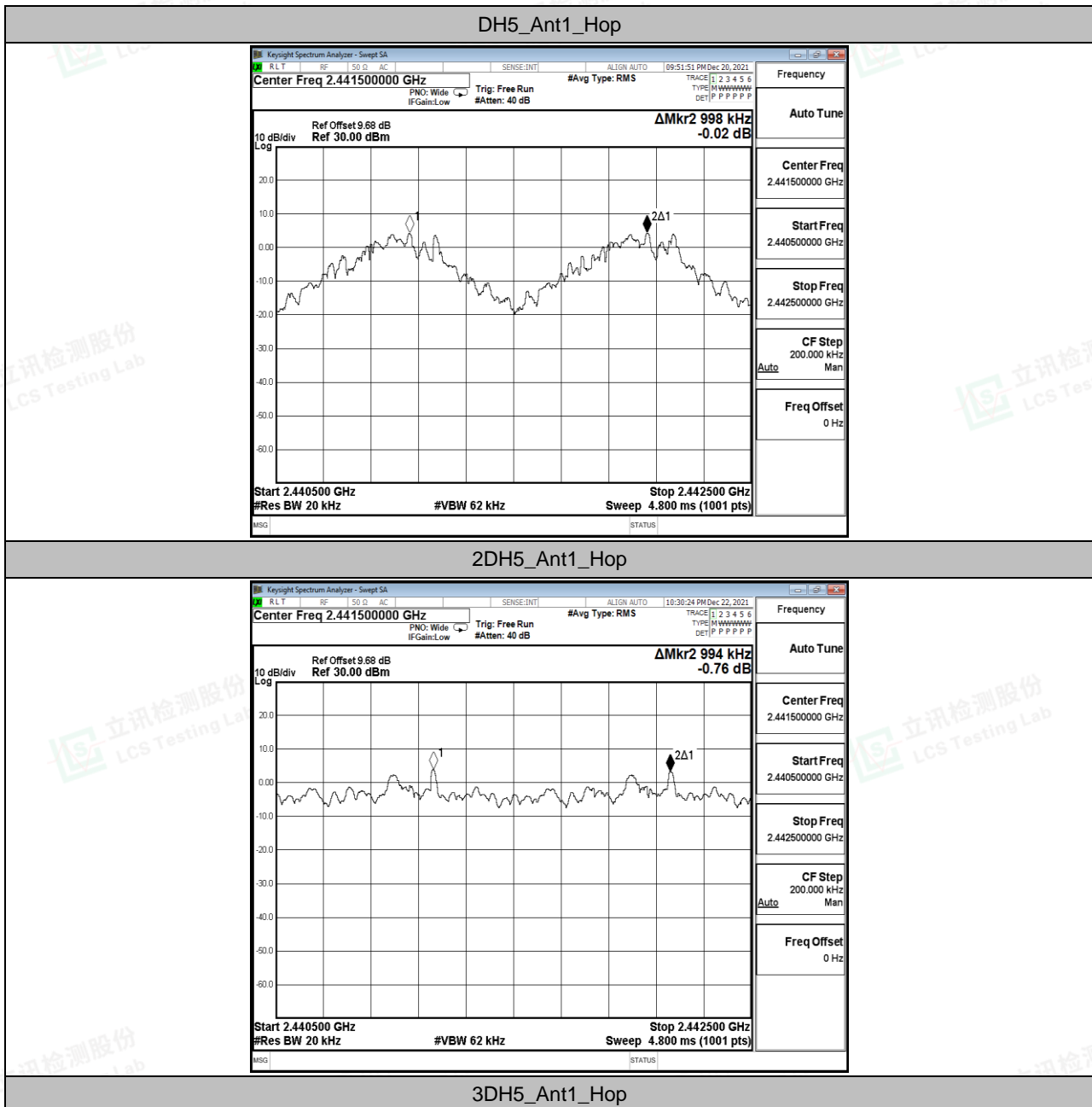


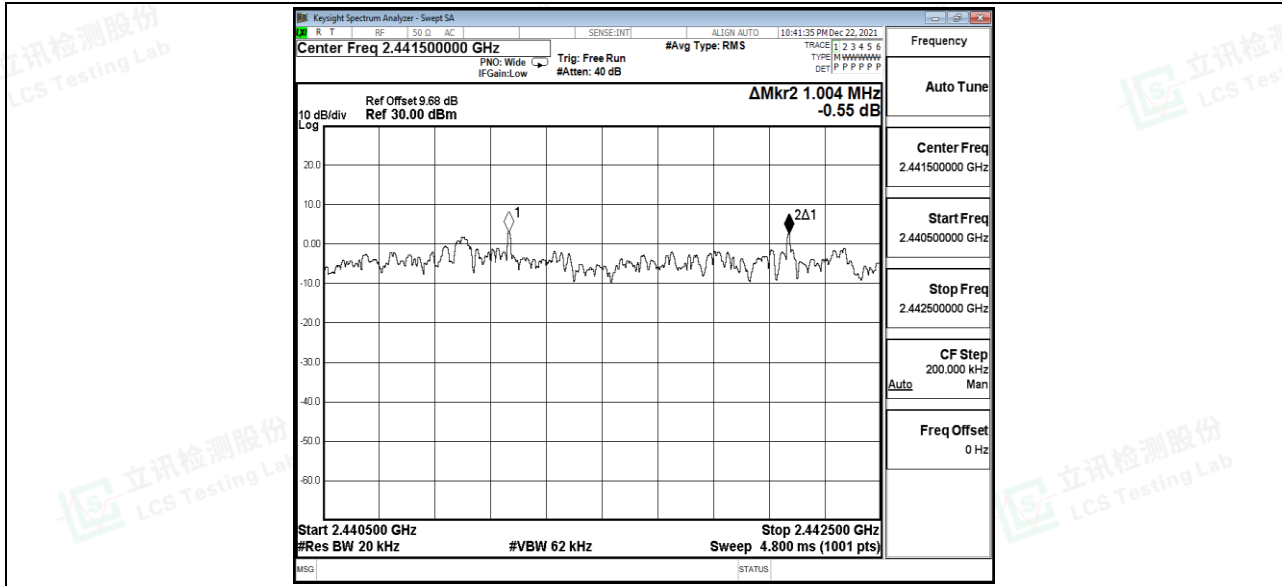
E.5 Hopping Frequency Separation

Test Result

TestMode	Antenna	Channel	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	0.100	PASS
2DH5	Ant1	Hop	0.994	0.100	PASS
3DH5	Ant1	Hop	1.004	0.100	PASS

Test Graphs





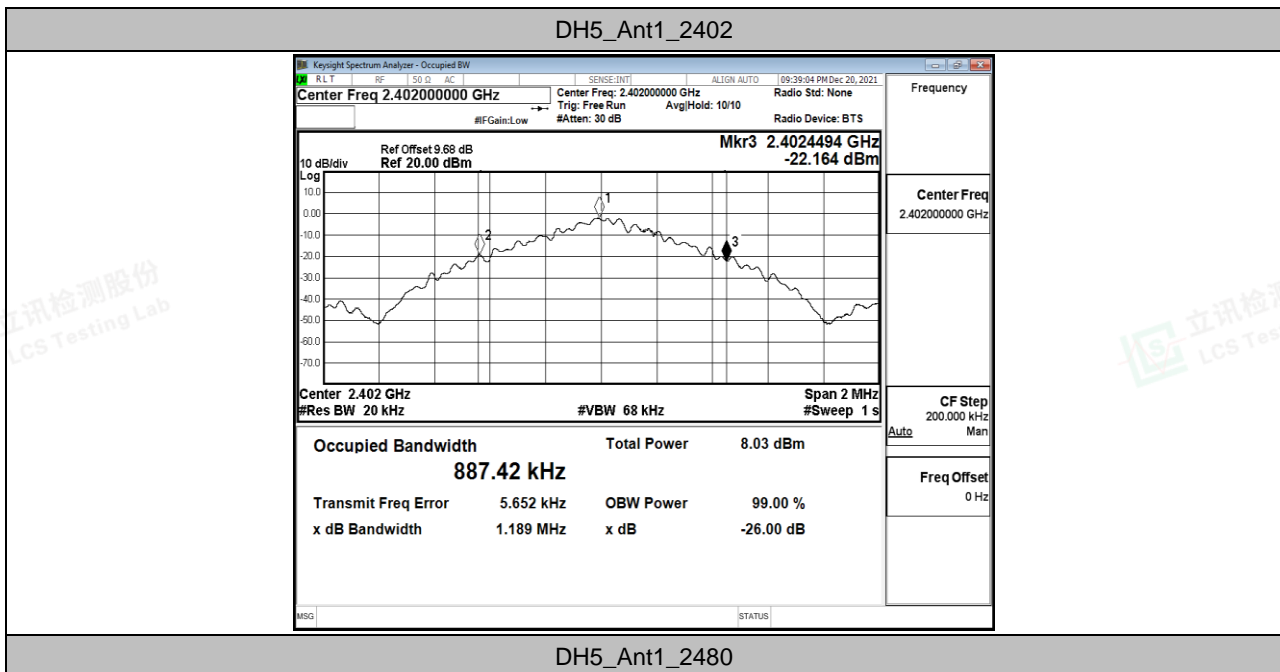


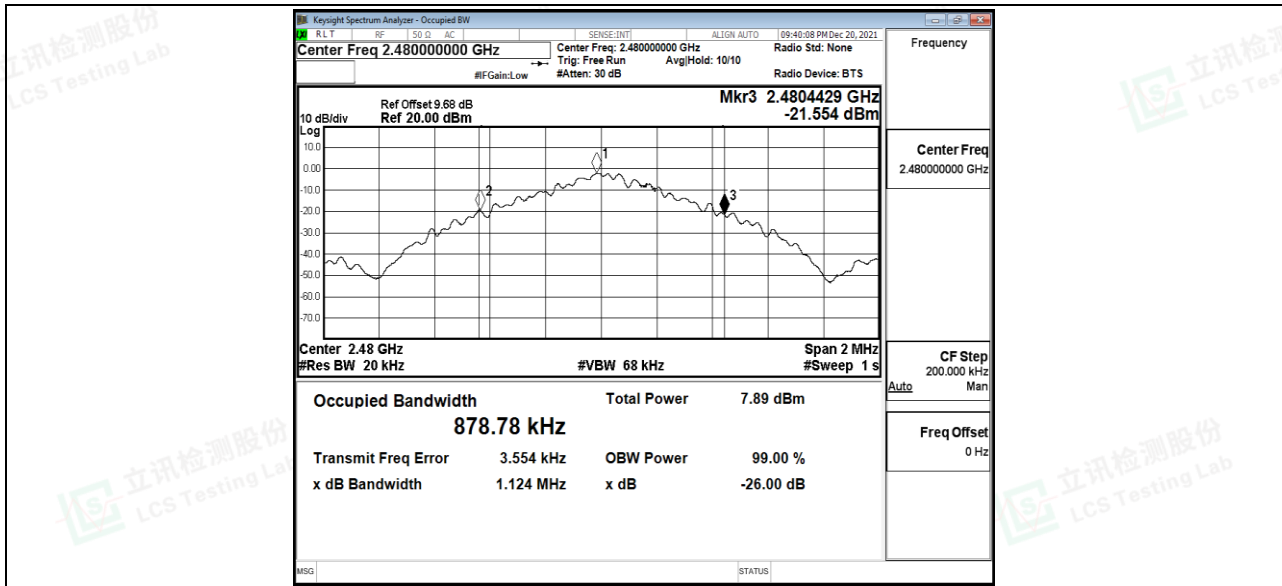
E.6 Occupied Channel Bandwidth

Test Result

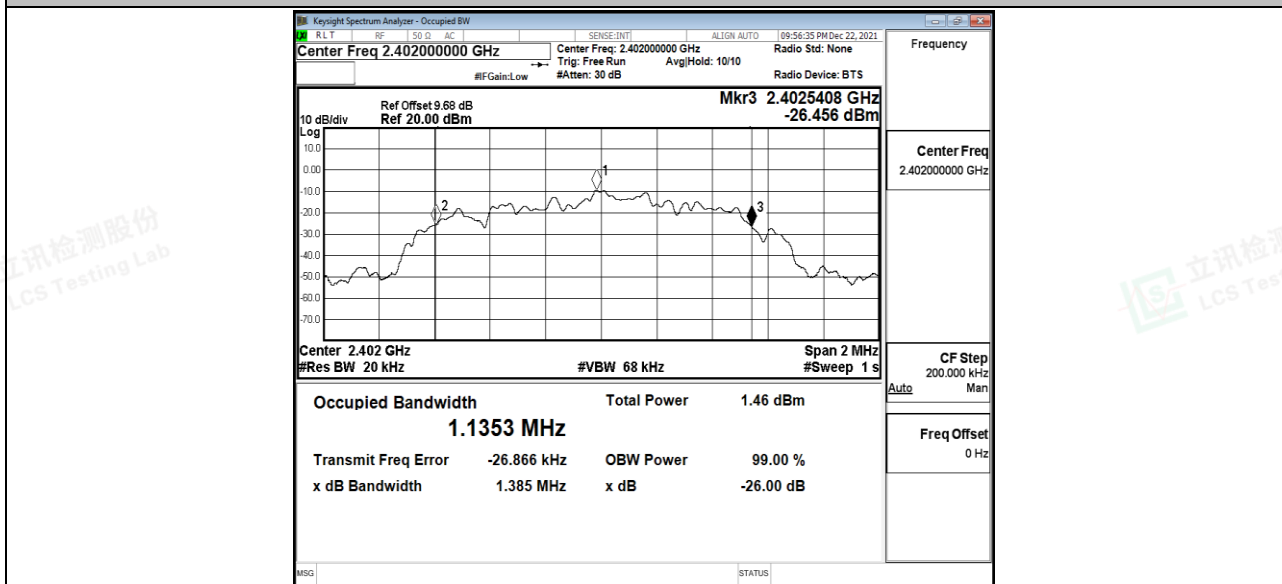
TestMode	Antenna	Channel	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88742	2401.5619	2402.4494	2400 to 2483.5	PASS
		2480	0.87878	2479.5642	2480.4429	2400 to 2483.5	PASS
2DH5	Ant1	2402	1.1353	2401.4055	2402.5408	2400 to 2483.5	PASS
		2480	1.1366	2479.4065	2480.5431	2400 to 2483.5	PASS
3DH5	Ant1	2402	1.1194	2401.4409	2402.5603	2400 to 2483.5	PASS
		2480	1.1213	2479.4410	2480.5623	2400 to 2483.5	PASS

Test Graphs



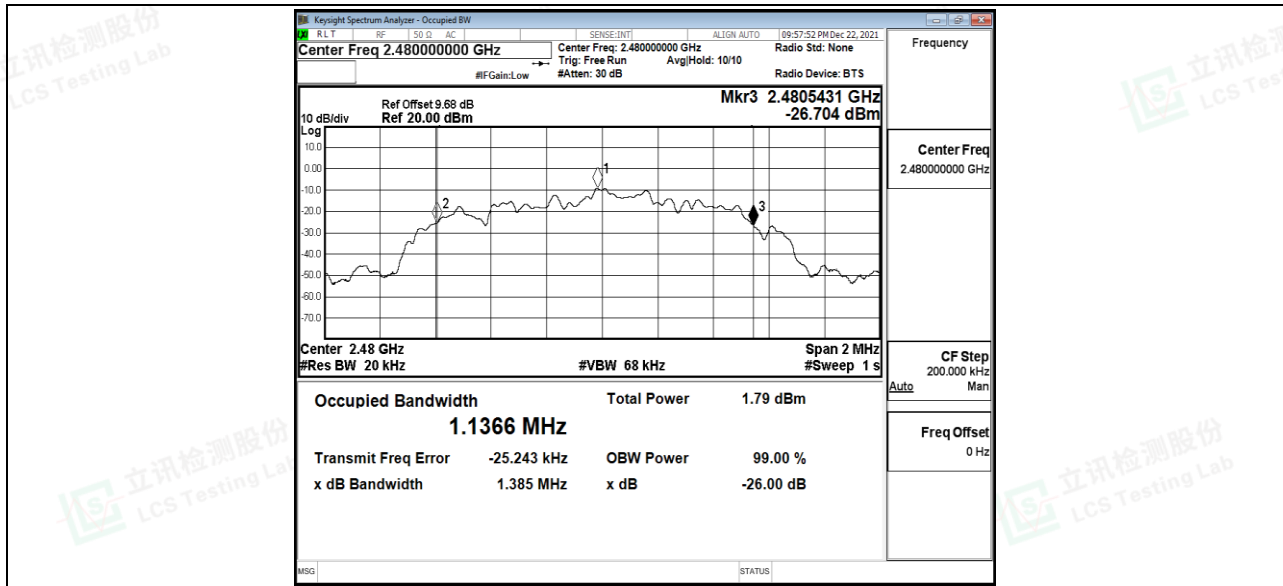


2DH5_Ant1_2402

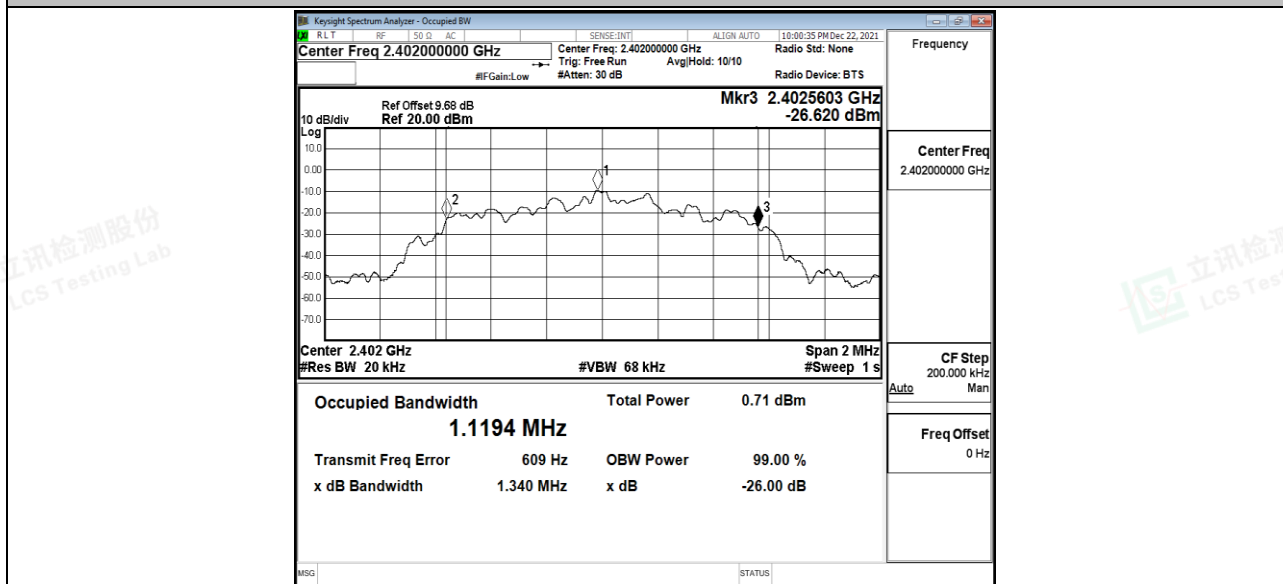


2DH5_Ant1_2480



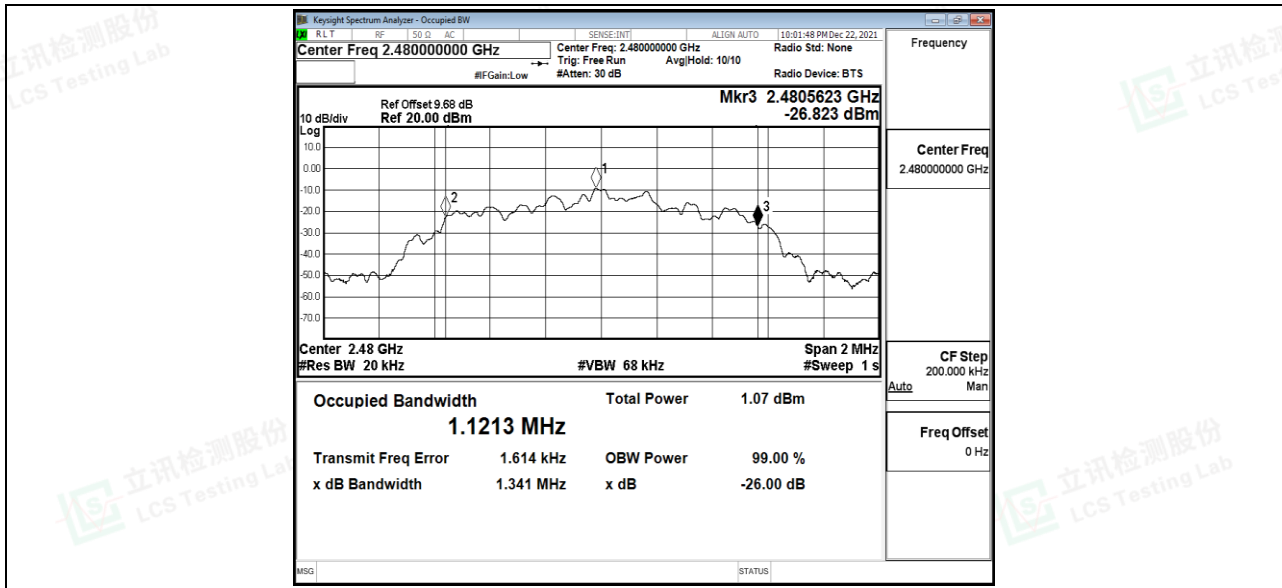


3DH5_Ant1_2402



3DH5_Ant1_2480







E.7 Transmitter Unwanted Emissions In The Out-Of-BandDomain

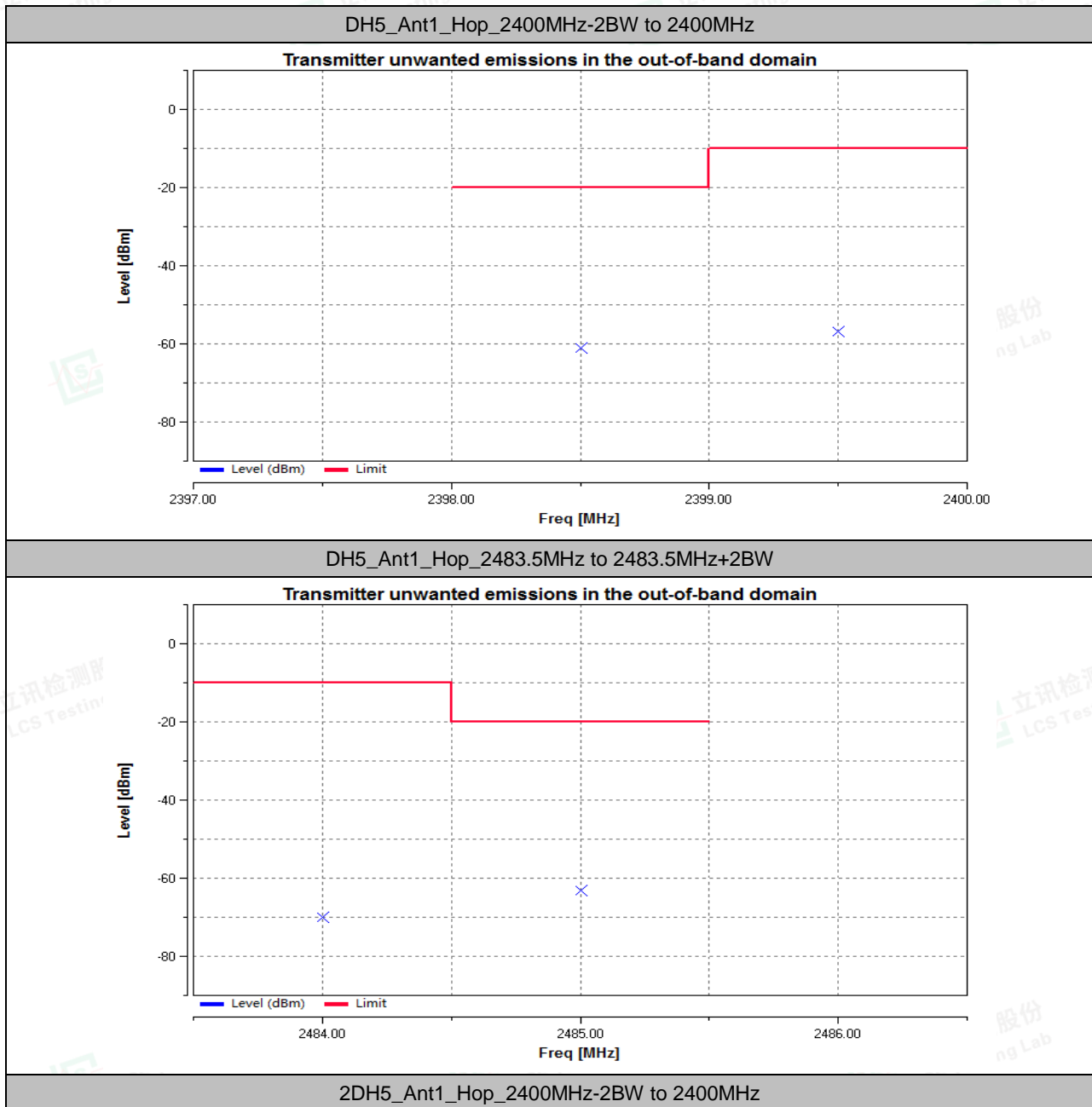
Test Result

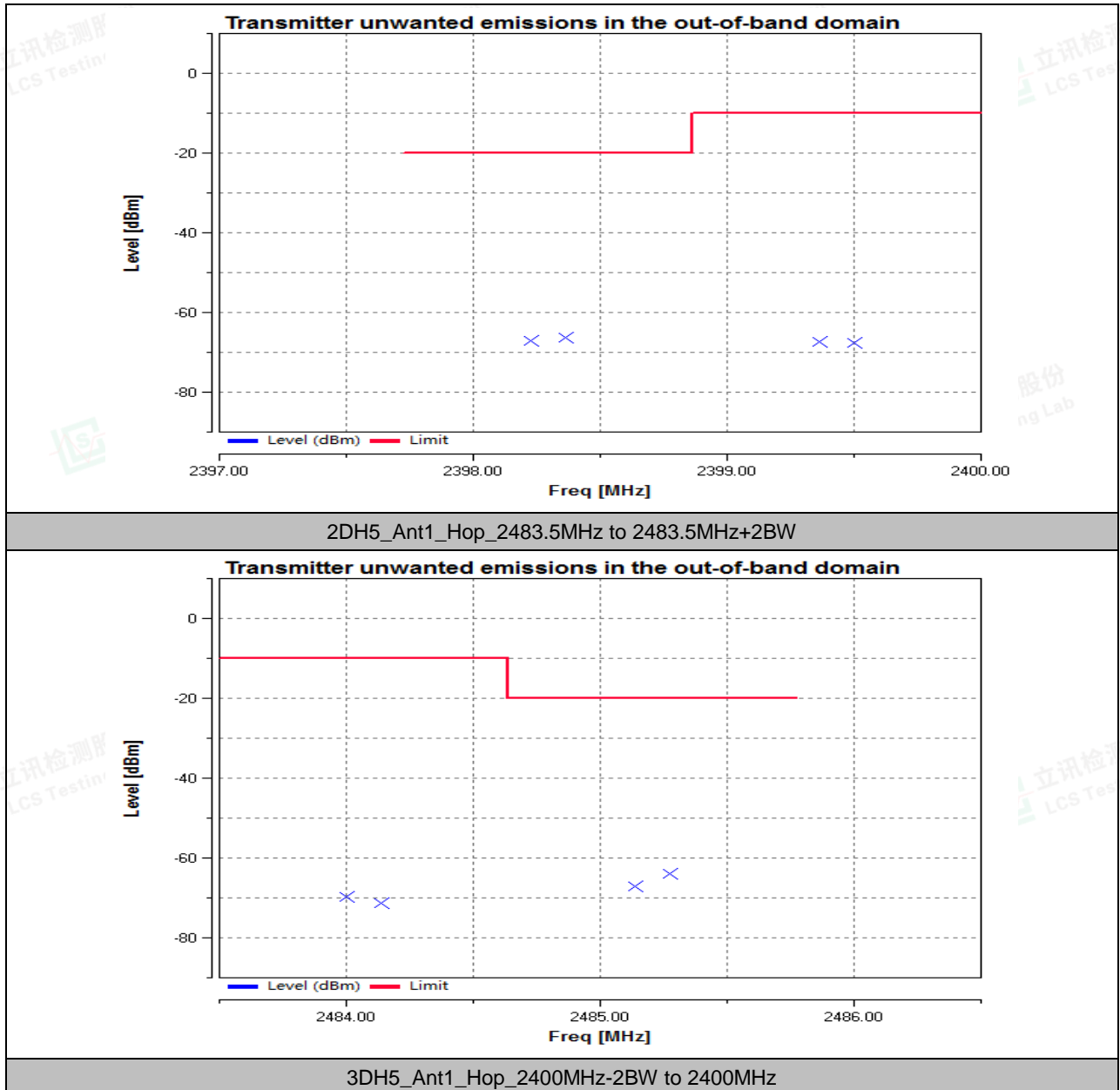
TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	2398.5	-60.94	-20.00	PASS
			2399.5	-56.78	-10.00	PASS
			2484	-69.93	-10.00	PASS
			2485	-63.10	-20.00	PASS
2DH5	Ant1	Hop	2398.2268	-67.09	-20.00	PASS
			2398.3634	-66.38	-20.00	PASS
			2399.3634	-67.37	-10.00	PASS
			2399.5	-67.56	-10.00	PASS
			2484	-69.84	-10.00	PASS
			2484.1366	-71.41	-10.00	PASS
			2485.1366	-67.11	-20.00	PASS
			2485.2732	-63.87	-20.00	PASS
3DH5	Ant1	Hop	2398.2574	-70.69	-20.00	PASS
			2398.3787	-71.27	-20.00	PASS
			2399.3787	-66.64	-10.00	PASS
			2399.5	-66.54	-10.00	PASS
			2484	-54.49	-10.00	PASS
			2484.1213	-66.33	-10.00	PASS
			2485.1213	-62.77	-20.00	PASS
			2485.2426	-66.94	-20.00	PASS

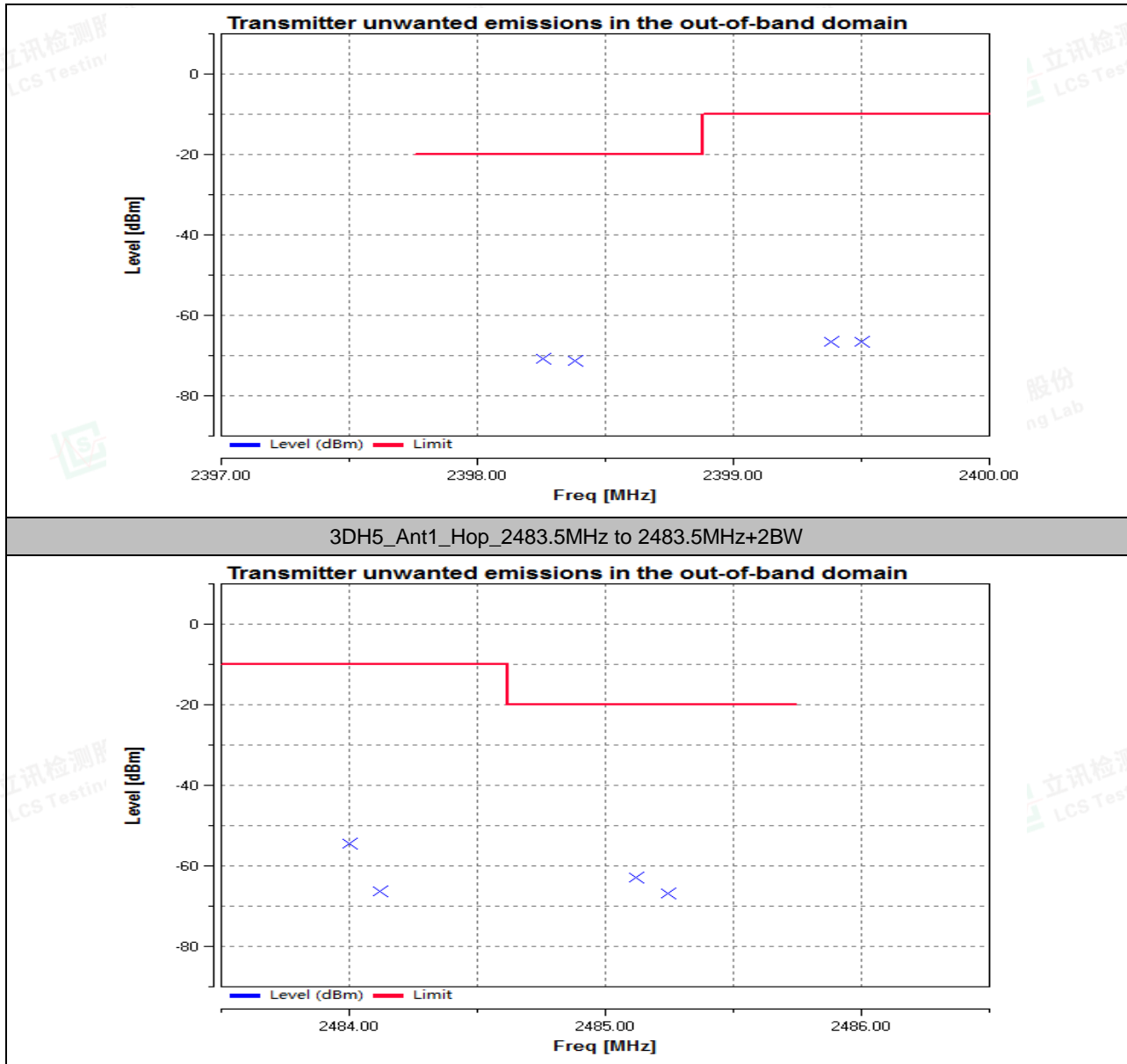




Test Graphs







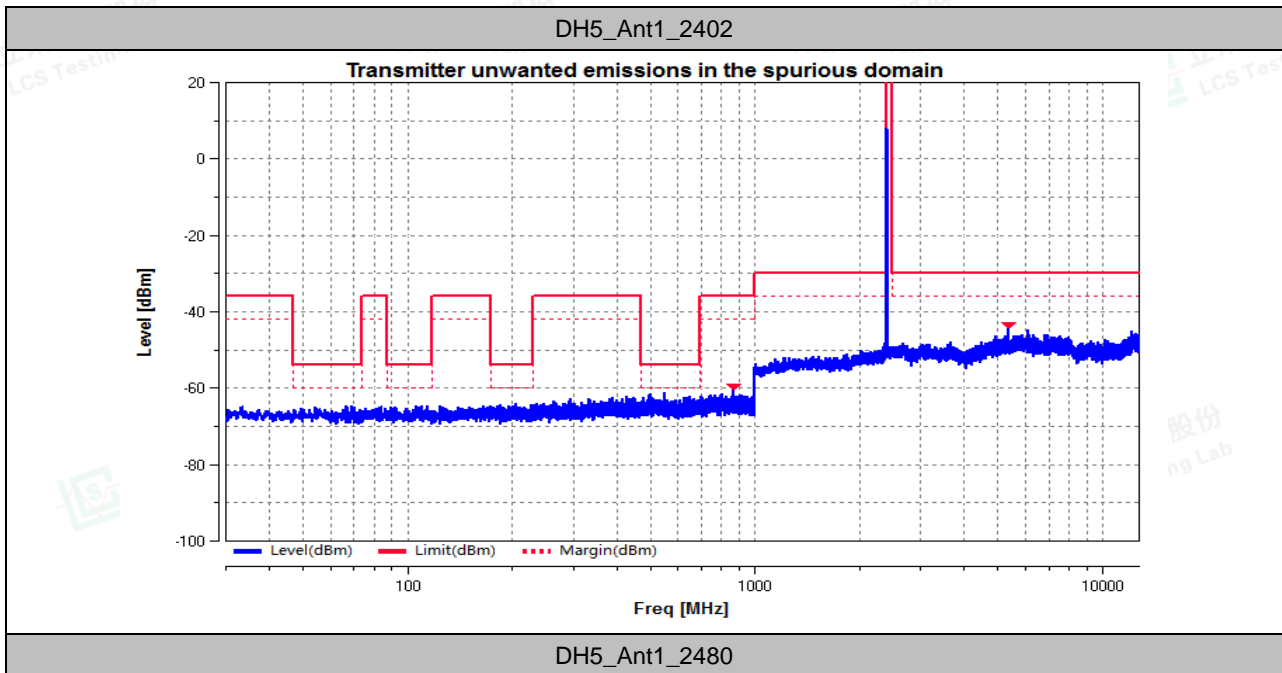


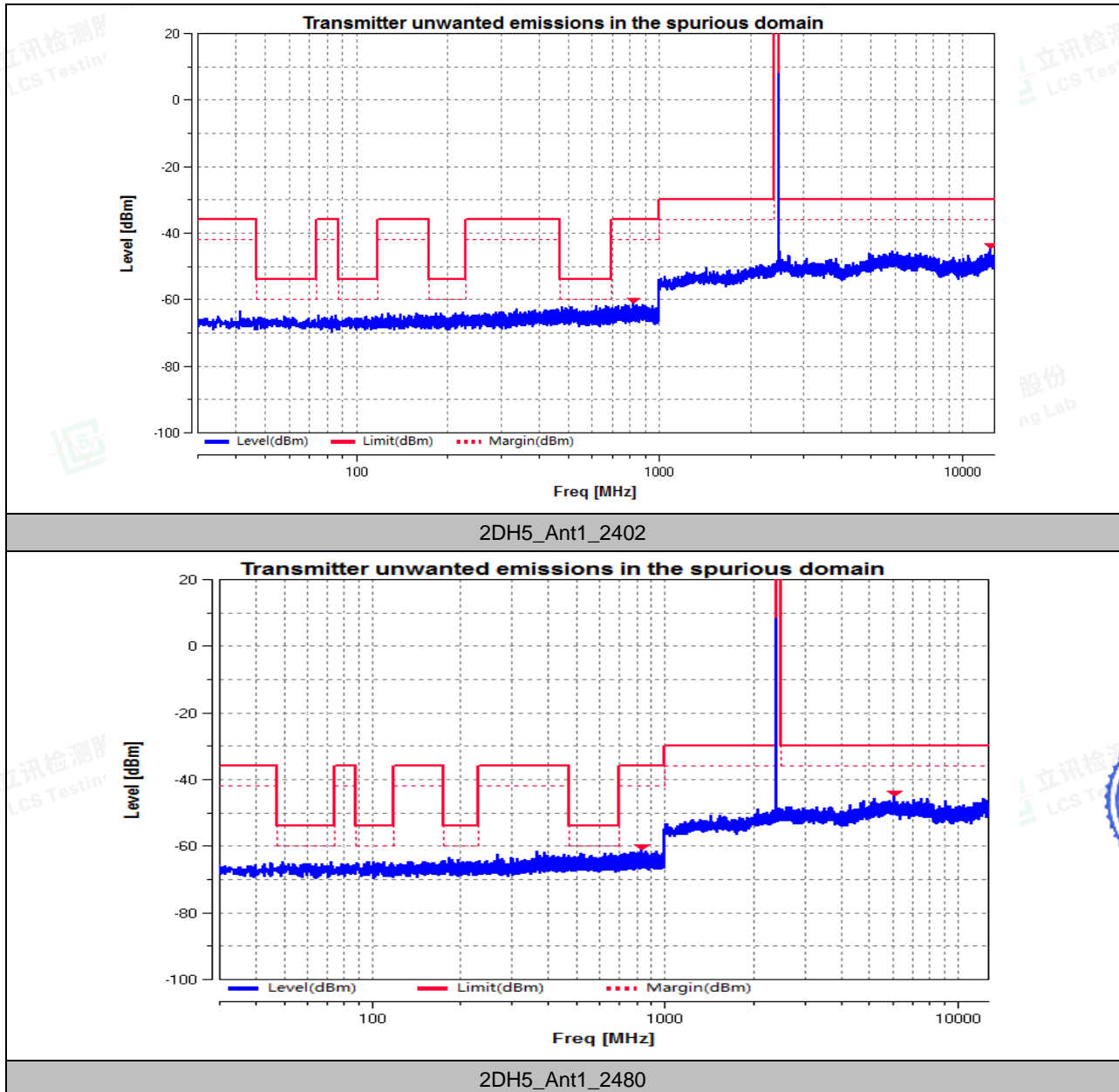
E.8 Transmitter unwanted emissions in the spurious domain

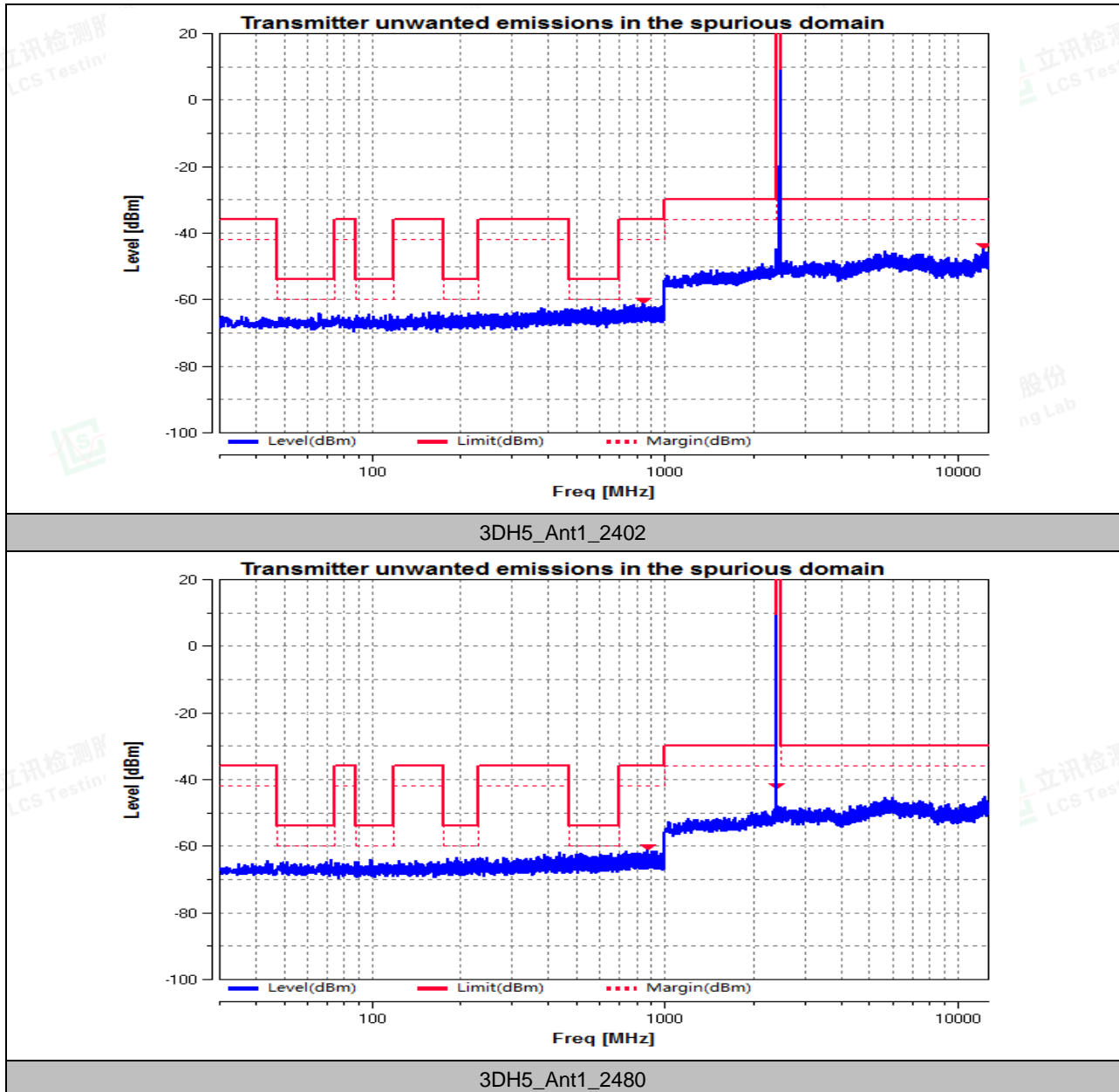
Test Result-Pre-scan

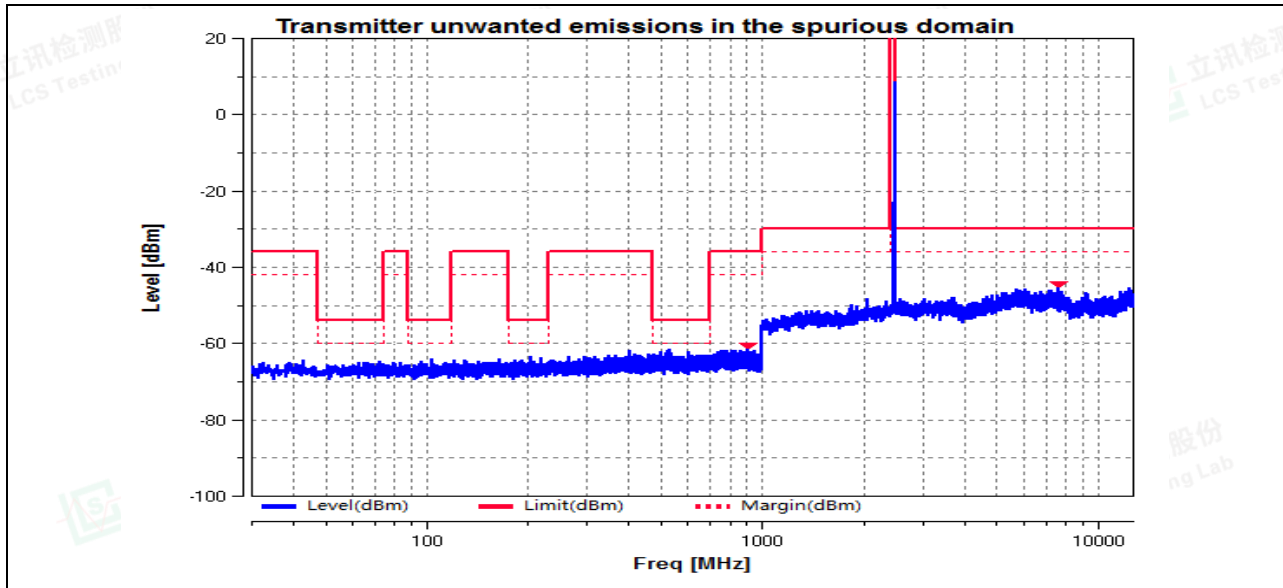
TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	870.75	-60.39	-36	PASS
			5369.53	-44.29	-30	PASS
		2480	821.52	-61.1	-36	PASS
			12435.69	-44.59	-30	PASS
2DH5	Ant1	2402	830.01	-61.29	-36	PASS
			6086.28	-45.04	-30	PASS
		2480	842.86	-61.19	-36	PASS
			12362.25	-44.82	-30	PASS
3DH5	Ant1	2402	872.45	-61.12	-36	PASS
			2396.78	-42.9	-30	PASS
		2480	906.64	-61.47	-36	PASS
			7619.66	-45.46	-30	PASS

Test Graphs-Pre-scan











E.9 Receiver spurious emissions

Test Result-Pre-scan

TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	845.29	-71.29	-57.00	PASS
			11896.66	-55.2	-47.00	PASS
		2480	806.73	-71.32	-57.00	PASS
			12381.34	-55.38	-47.00	PASS
2DH5	Ant1	2402	698.45	-71.63	-57.00	PASS
			5770.5	-53.62	-47.00	PASS
		2480	684.14	-70.41	-57.00	PASS
			5763.16	-54.18	-47.00	PASS
3DH5	Ant1	2402	905.06	-70.9	-57.00	PASS
			6086.28	-54.42	-47.00	PASS
		2480	5757.28	-52.99	-47	See table below

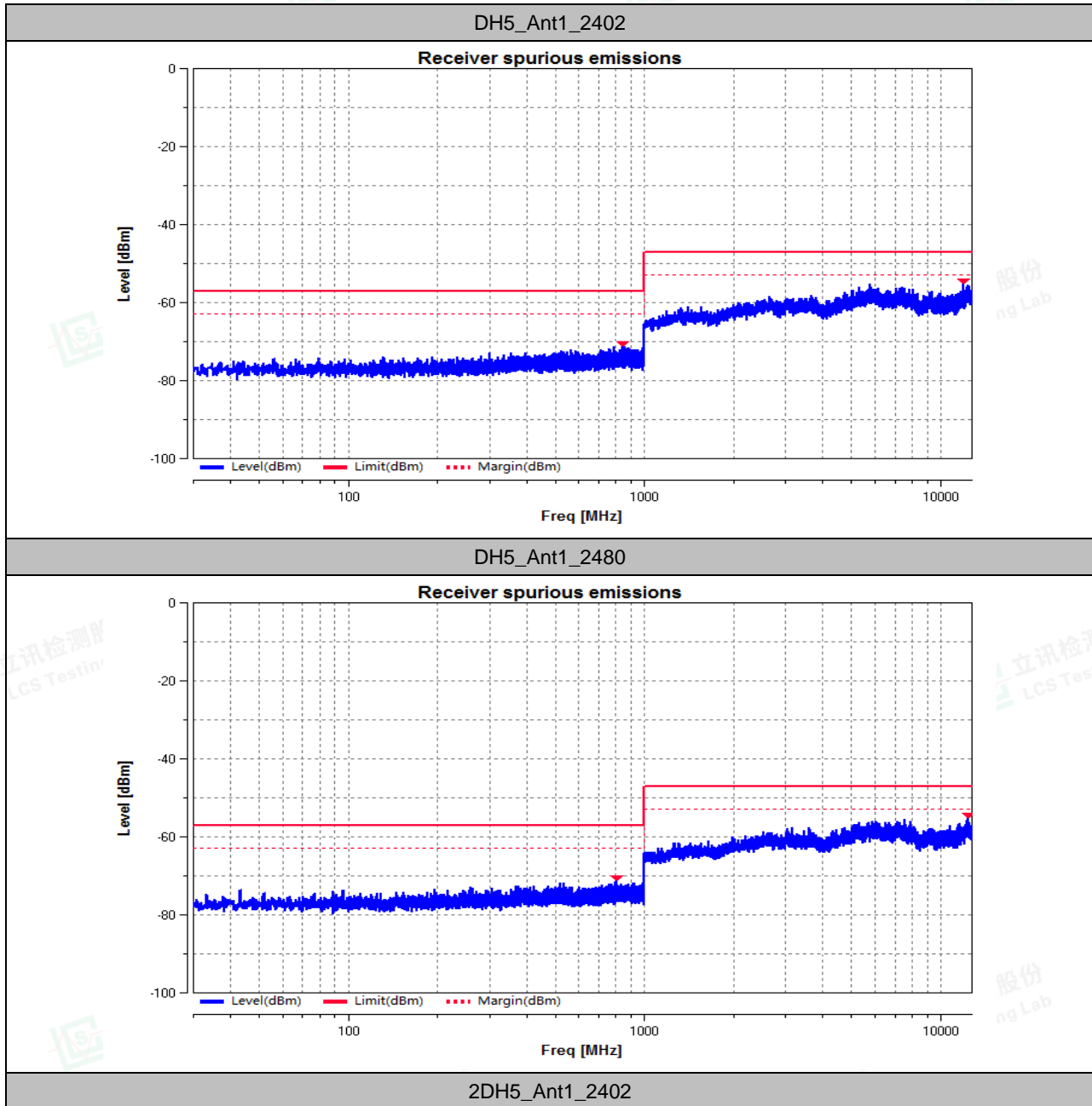
Test Result- Emissions identified during the pre-scan

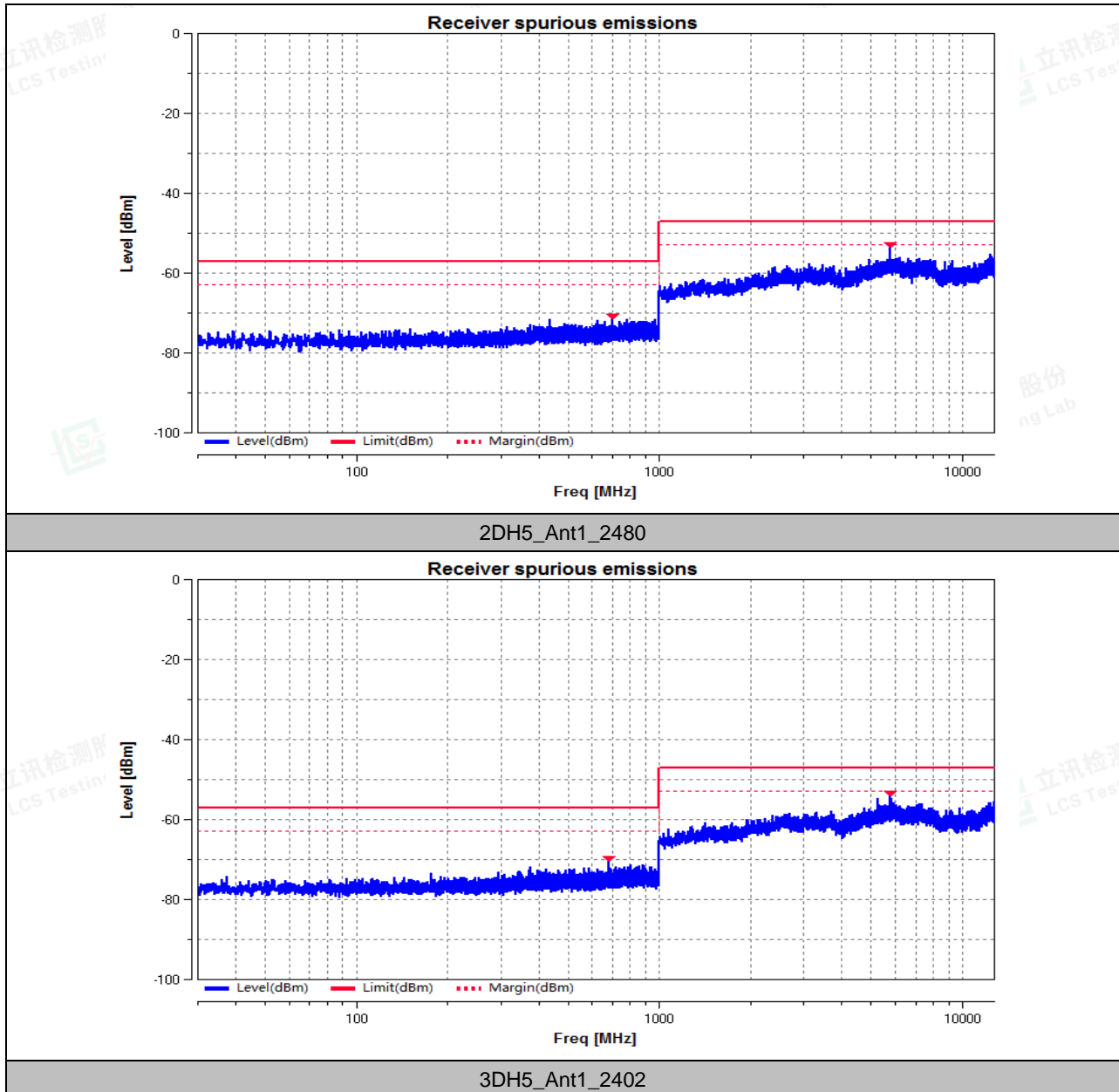
TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
3DH5	Ant1	2480	5757.28	-75.80	-47	PASS

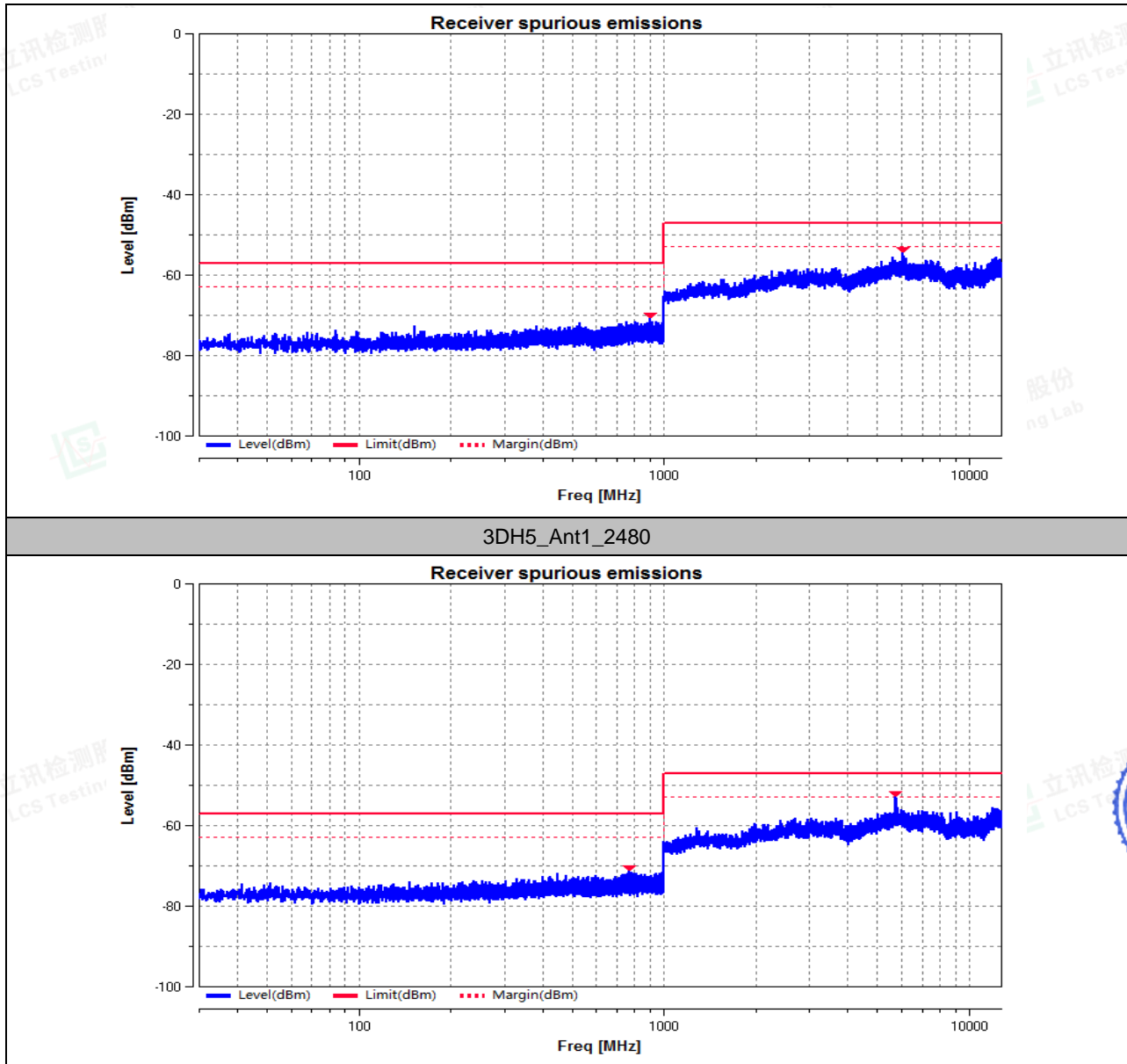




Test Graphs-Pre-scan



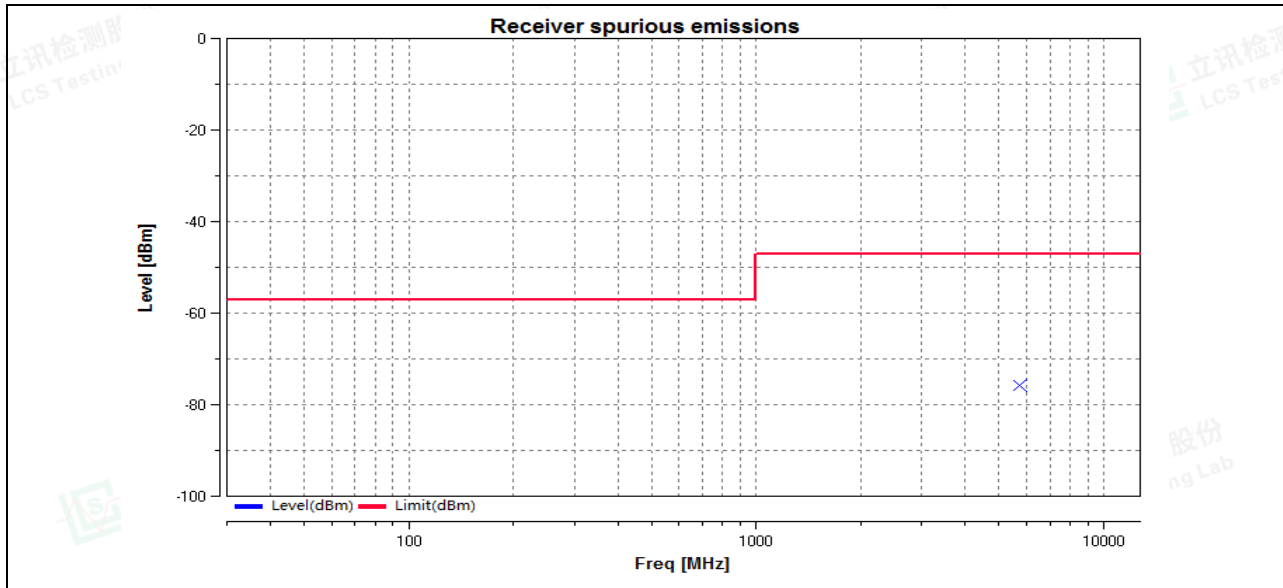




Test Graphs- Emissions identified during the pre-scan

3DH5_Ant1_2480







E.10 Receiver Blocking

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
DH1	2402	-70	2380	-25	≥-34	CW	3.22	10	Pass
			2504	-34	≥-34	CW	4.48	10	Pass
			2300	-23	≥-34	CW	5.37	10	Pass
			2584	-25	≥-34	CW	4.58	10	Pass
	2480	-70	2380	-25	≥-34	CW	6.76	10	Pass
			2504	-24	≥-34	CW	5.98	10	Pass
			2300	-29	≥-34	CW	5.30	10	Pass
			2584	-23	≥-34	CW	3.71	10	Pass
2DH1	2402	-68	2380	-20	≥-34	CW	5.06	10	Pass
			2504	-27	≥-34	CW	5.81	10	Pass
			2300	-17	≥-34	CW	4.40	10	Pass
			2584	-25	≥-34	CW	4.48	10	Pass
	2480	-68	2380	-29	≥-34	CW	6.71	10	Pass
			2504	-31	≥-34	CW	5.70	10	Pass
			2300	-31	≥-34	CW	6.56	10	Pass
			2584	-21	≥-34	CW	3.35	10	Pass
3DH1	2402	-68	2380	-25	≥-34	CW	5.90	10	Pass
			2504	-32	≥-34	CW	5.07	10	Pass
			2300	-23	≥-34	CW	6.88	10	Pass
			2584	-26	≥-34	CW	6.22	10	Pass
	2480	-68	2380	-26	≥-34	CW	3.47	10	Pass
			2504	-23	≥-34	CW	5.51	10	Pass
			2300	-29	≥-34	CW	5.38	10	Pass
			2584	-22	≥-34	CW	3.83	10	Pass

