



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: t-Five True Wireless

Test Model: T5TW01

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

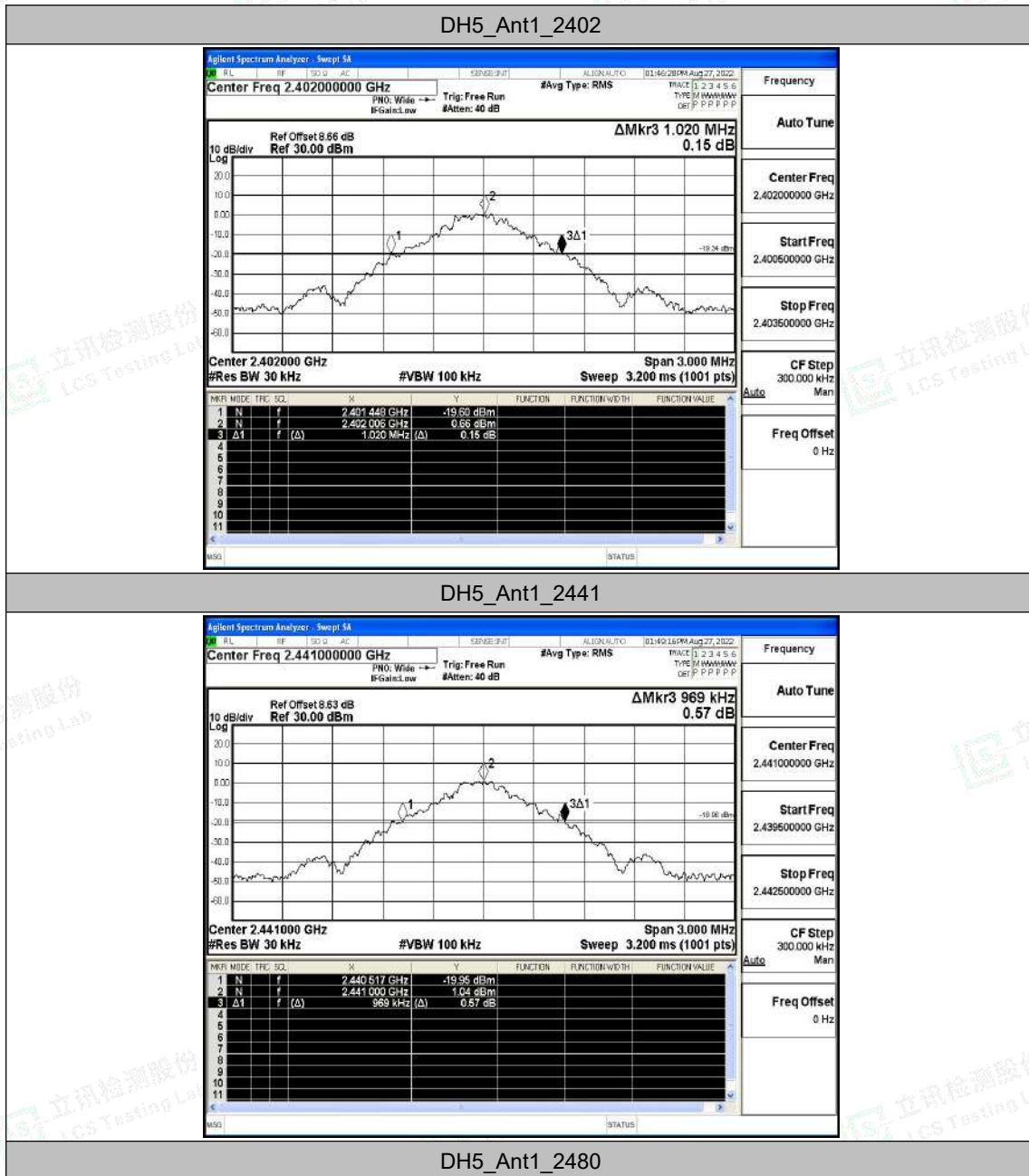
Test Result

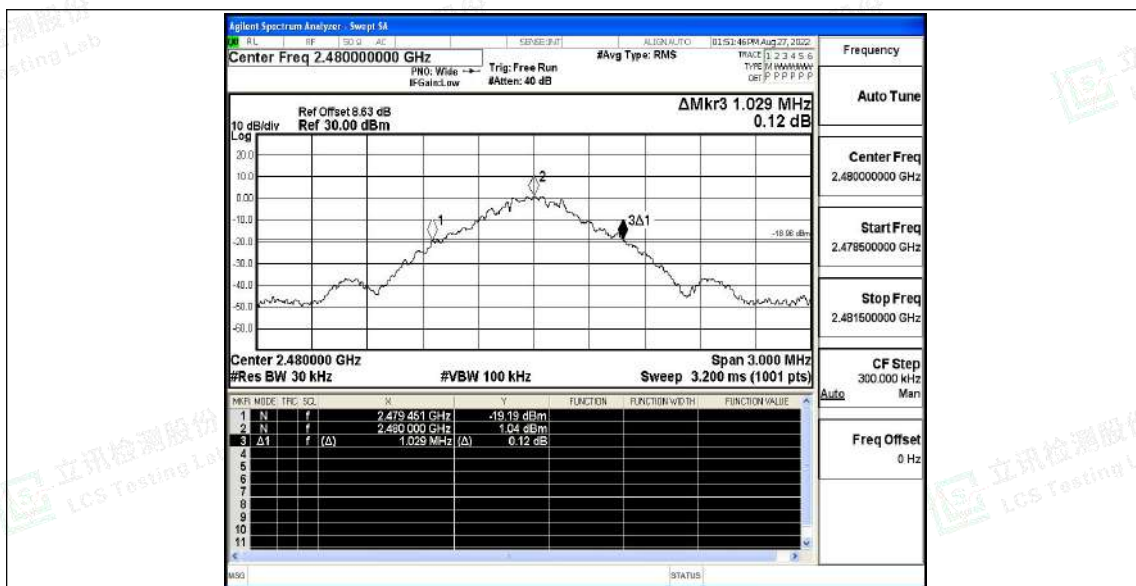
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.020	2401.448	2402.468	---
		2441	0.969	2440.517	2441.486	---
		2480	1.029	2479.451	2480.480	---
2DH5	Ant1	2402	1.356	2401.310	2402.666	---
		2441	1.287	2440.352	2441.639	---
		2480	1.341	2479.319	2480.660	---
3DH5	Ant1	2402	1.320	2401.328	2402.648	---
		2441	1.338	2440.319	2441.657	---
		2480	1.299	2479.340	2480.639	---



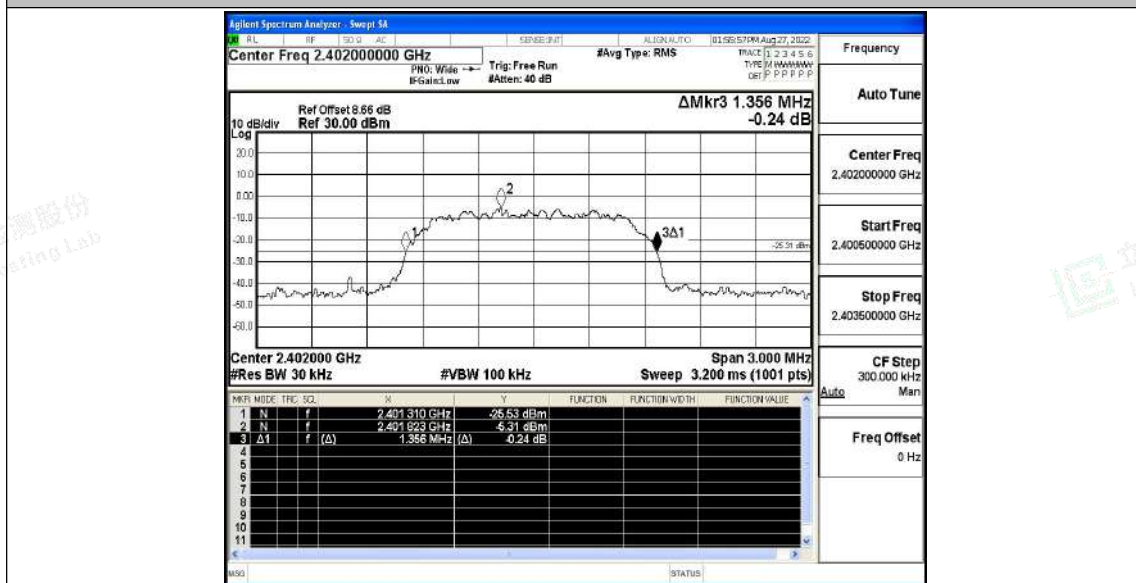


Test Graphs



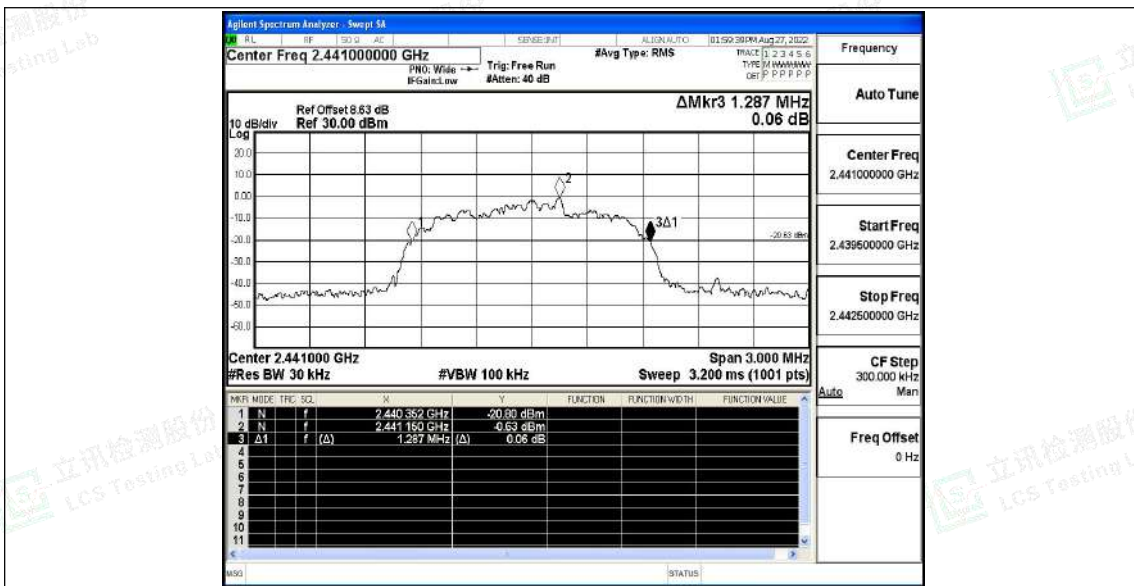


2Dh5_Ant1_2402

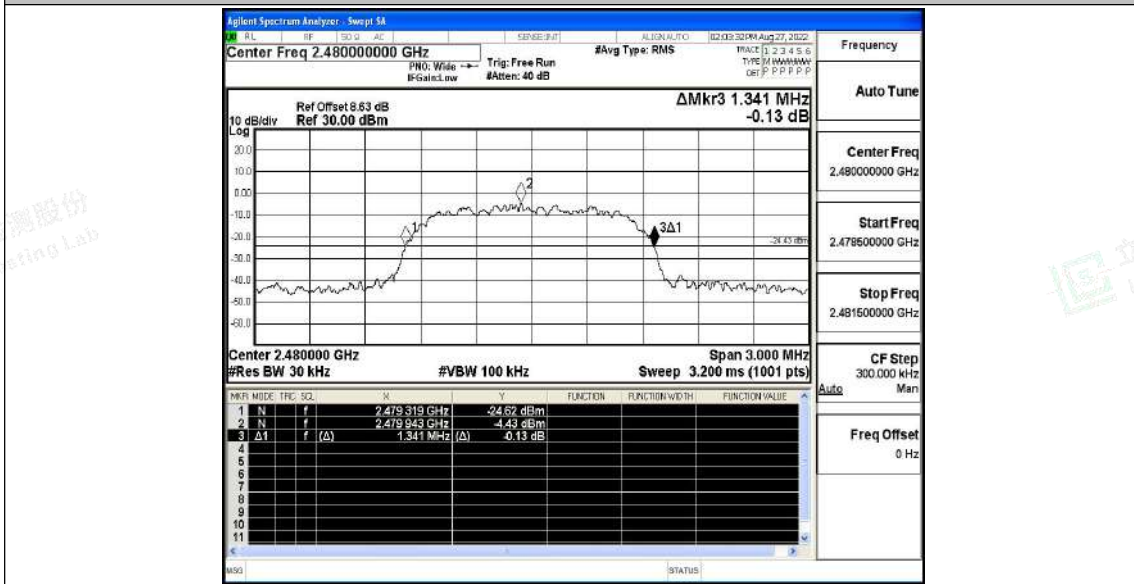


2Dh5_Ant1_2441



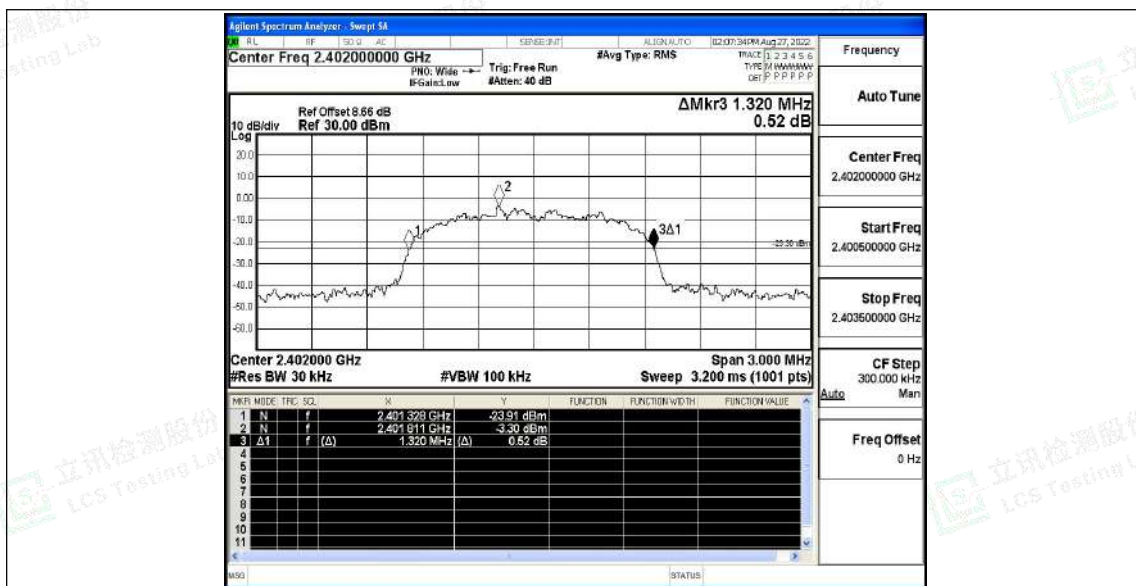


2Dh5_Ant1_2480

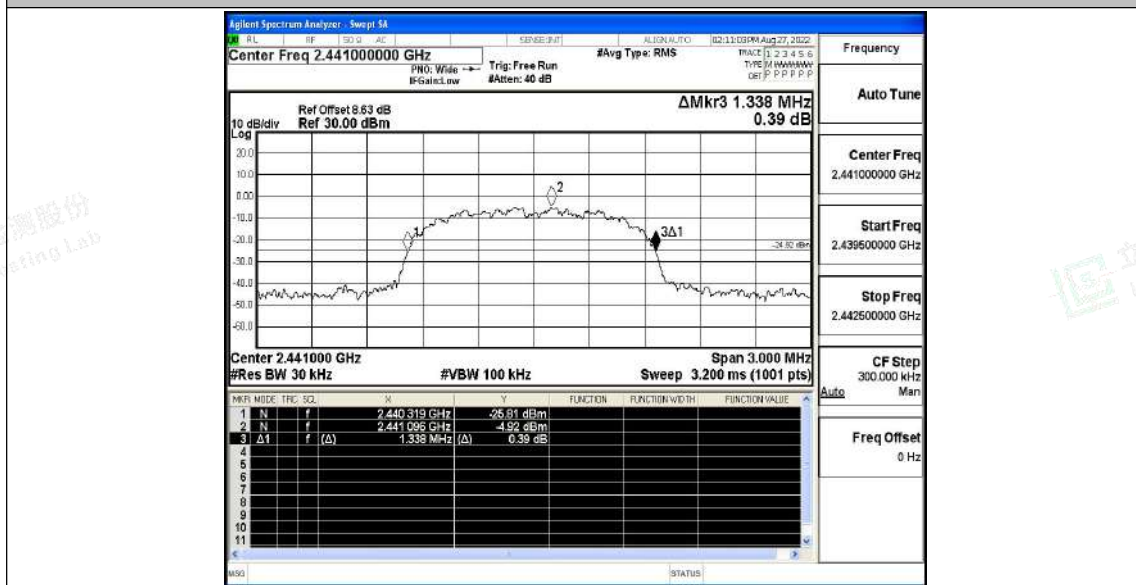


3Dh5_Ant1_2402



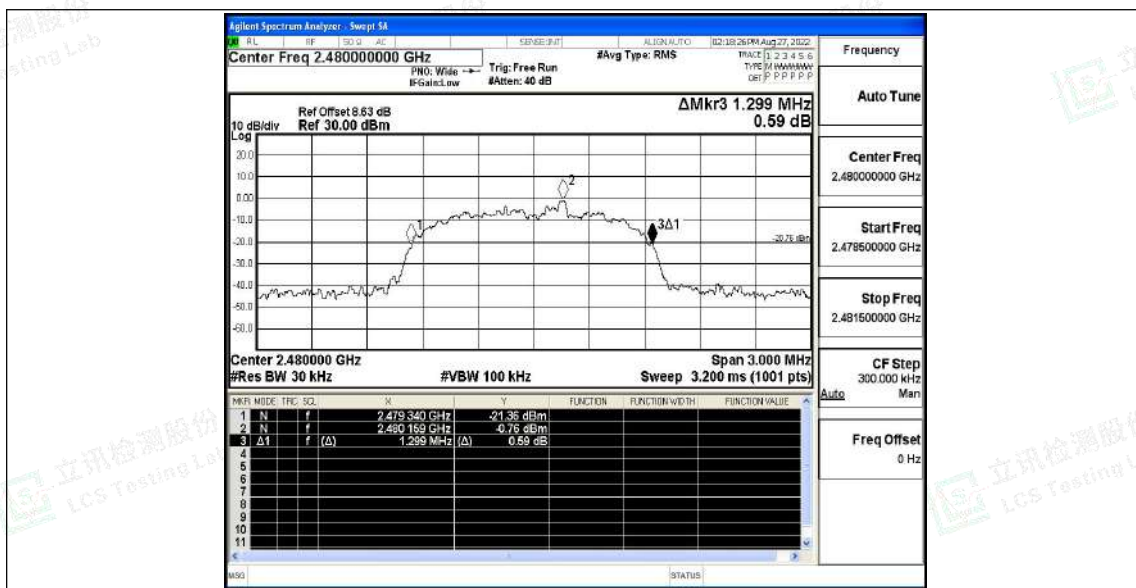


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Occupied Channel Bandwidth

Test Result

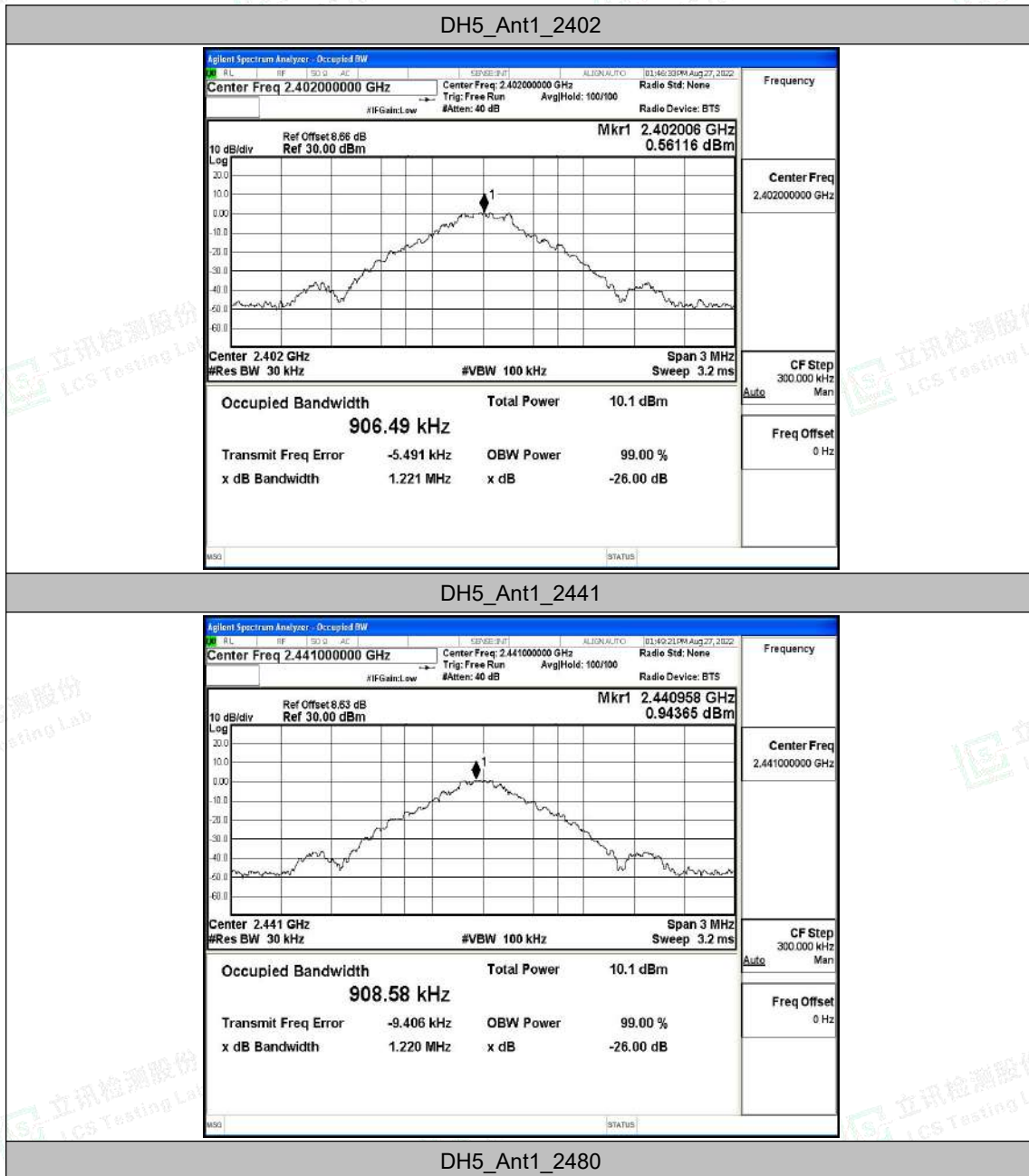
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90649	2401.5413	2402.4478	---	---
		2441	0.90858	2440.5363	2441.4449	---	---
		2480	0.91101	2479.5381	2480.4491	---	---
2DH5	Ant1	2402	1.1769	2401.3974	2402.5743	---	---
		2441	1.1838	2440.3935	2441.5773	---	---
		2480	1.1849	2479.3925	2480.5774	---	---
3DH5	Ant1	2402	1.1900	2401.3930	2402.5830	---	---
		2441	1.1943	2440.3918	2441.5861	---	---
		2480	1.1805	2479.4006	2480.5811	---	---



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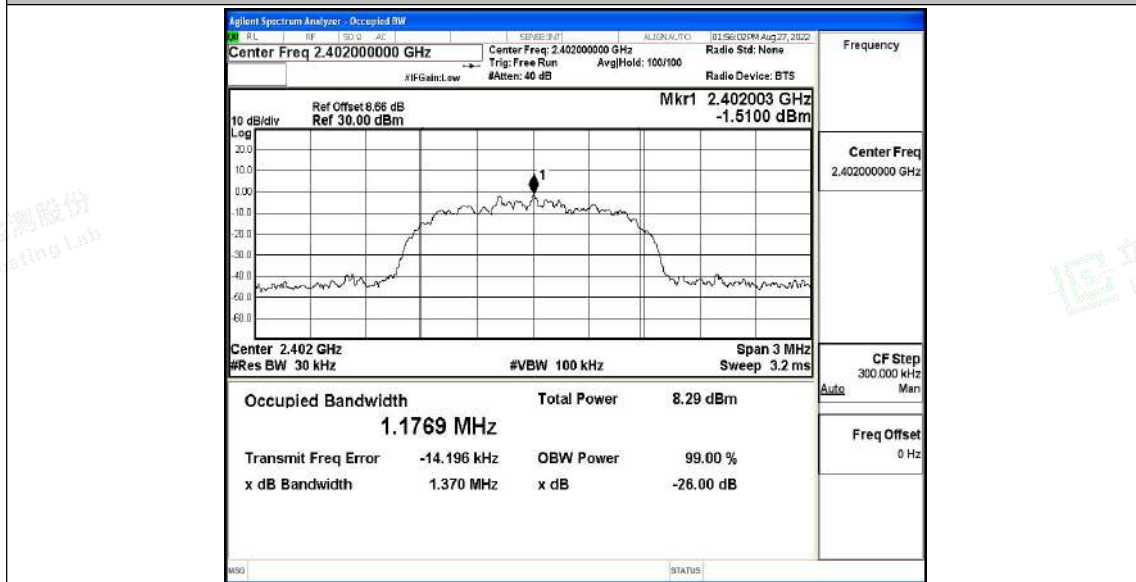


Test Graphs



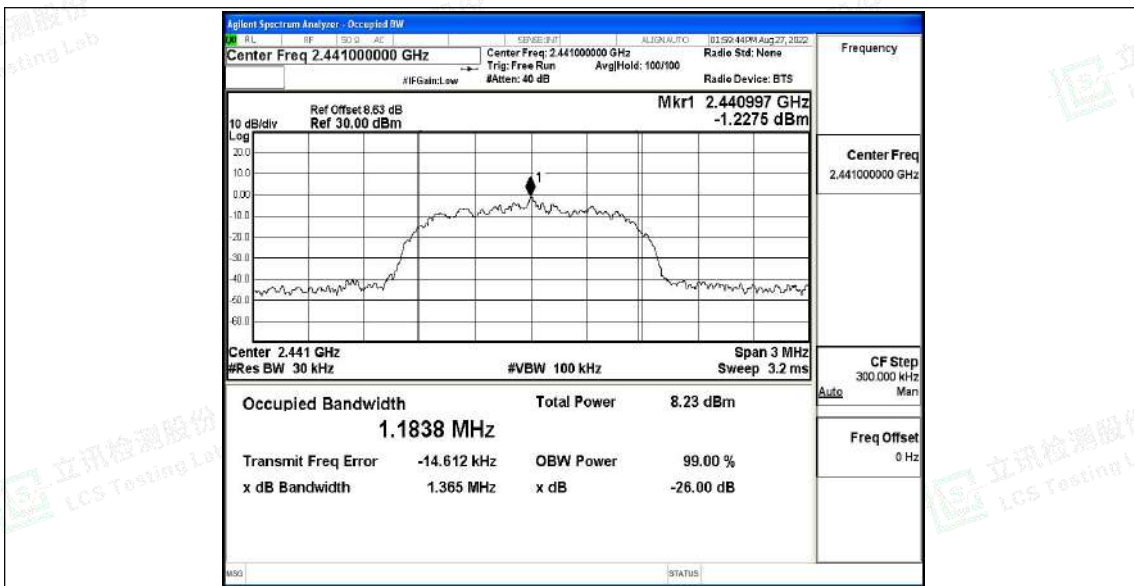


2DH5_Ant1_2402

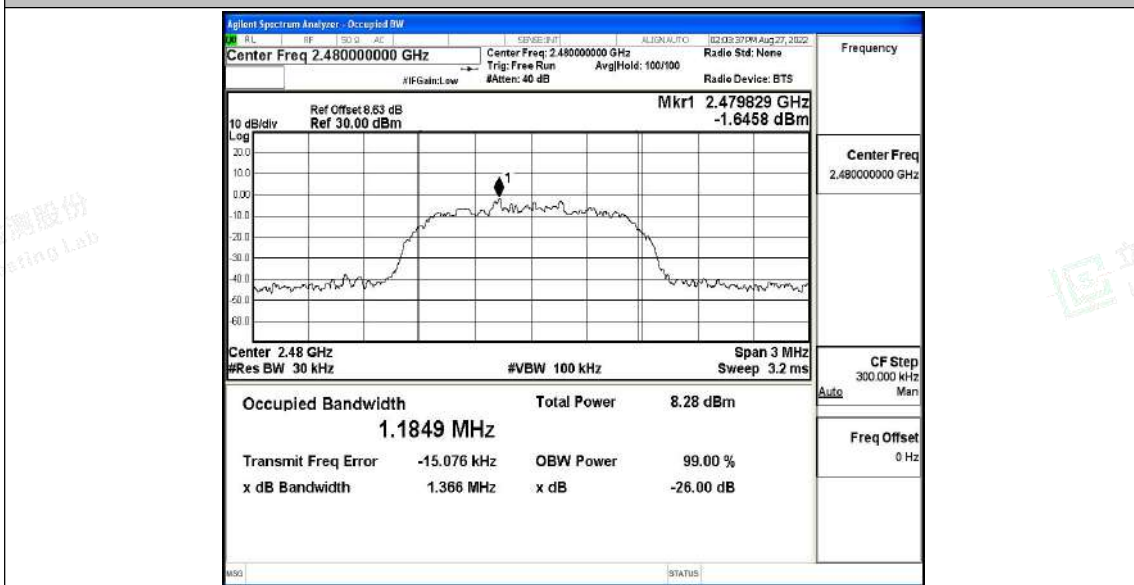


2DH5_Ant1_2441



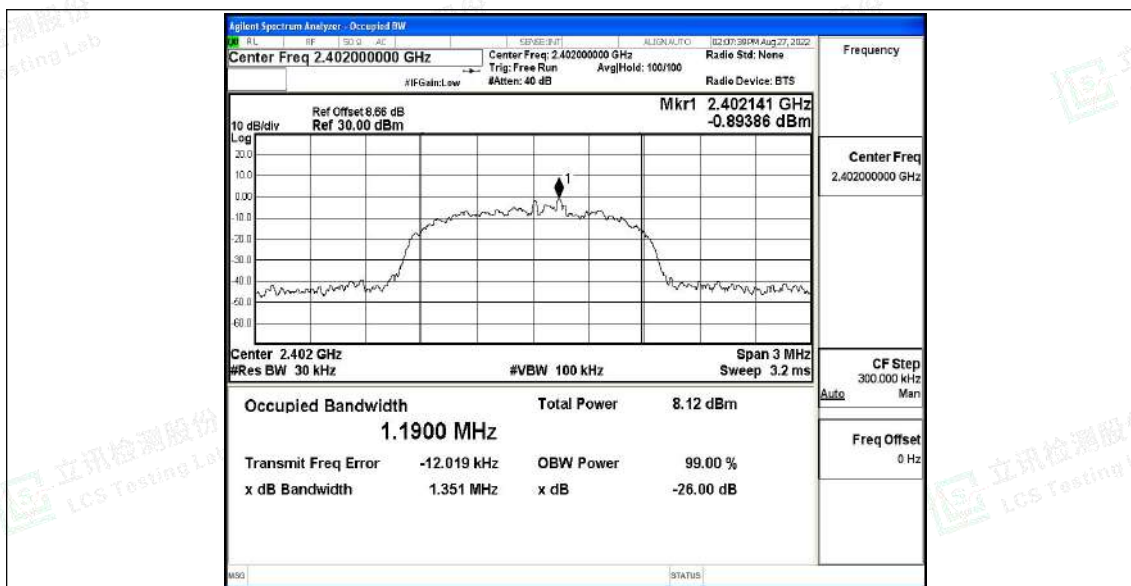


2DH5_Ant1_2480

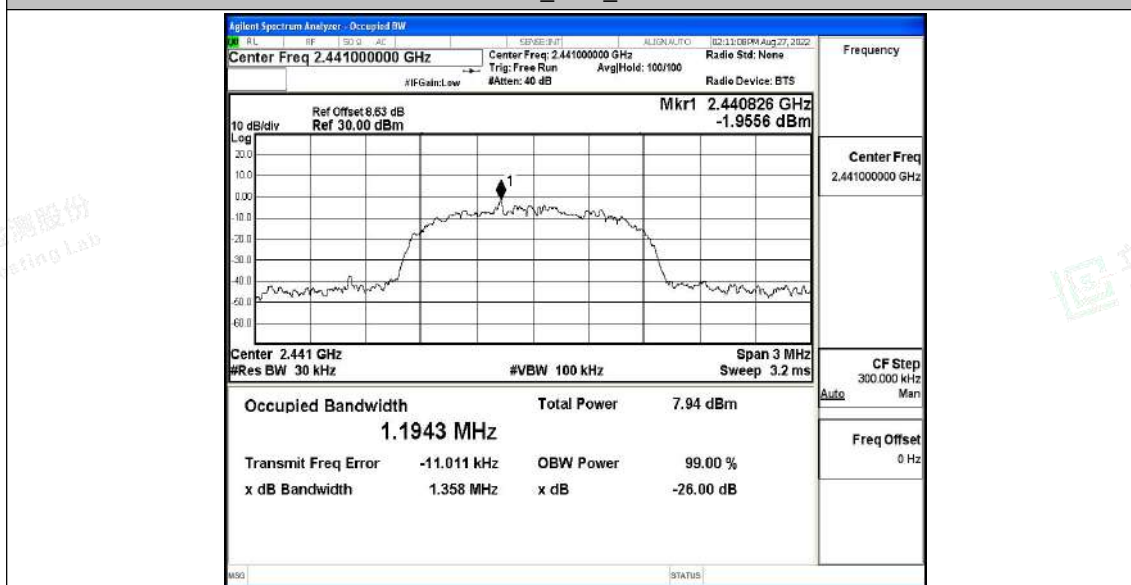


3DH5_Ant1_2402



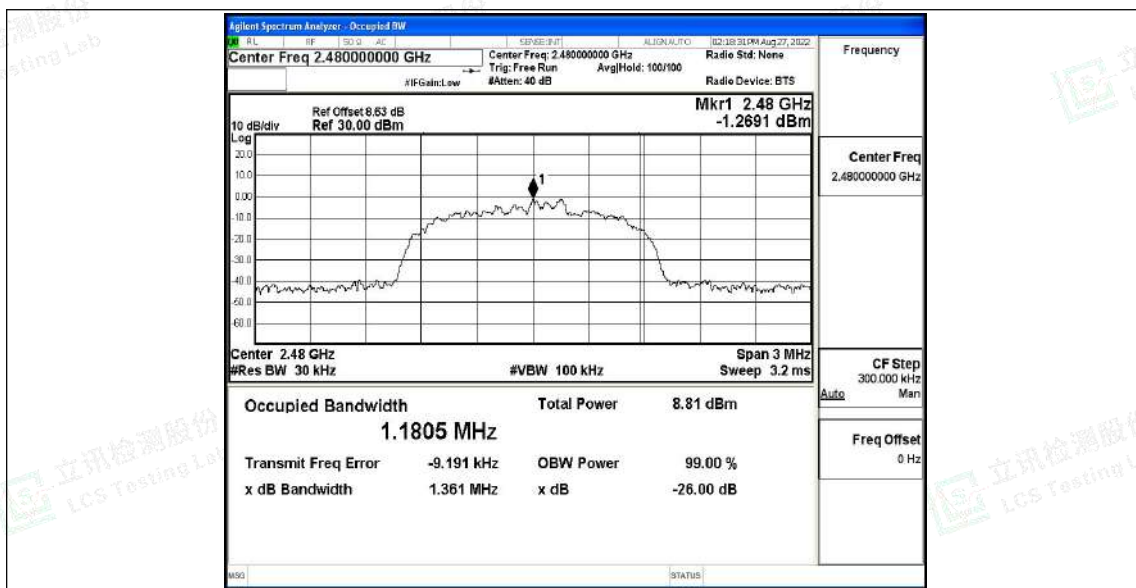


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Maximum peak conducted output power and e.i.r.p.

Test Result

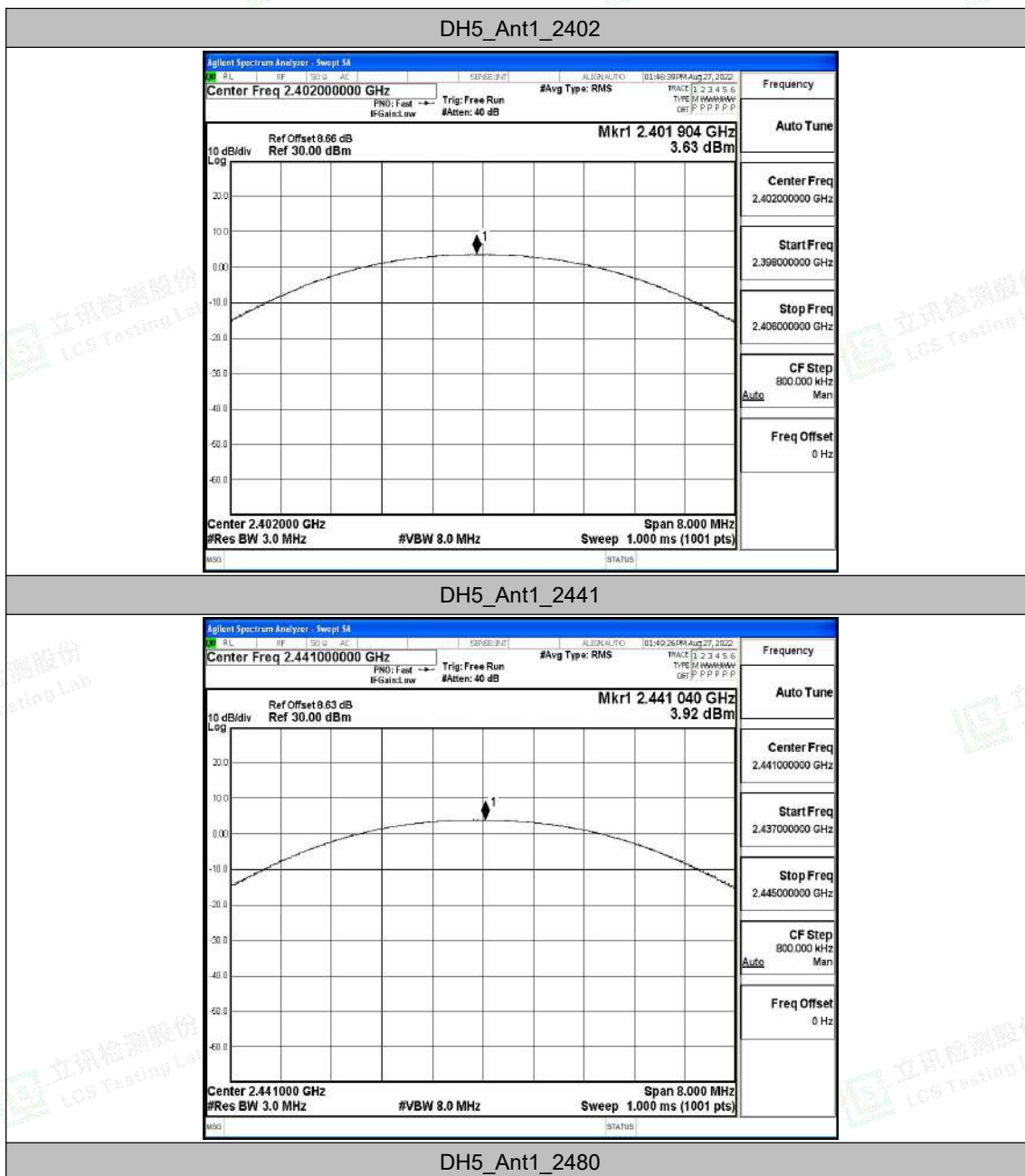
TestMode	Antenna	Channel	conducted output power [dBm]	conducted output power Limit[dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
DH5	Ant1	2402	3.63	≤20.97	1.56	5.19	≤36	PASS
		2441	3.92	≤20.97	1.56	5.48	≤36	PASS
		2480	3.98	≤20.97	1.56	5.54	≤36	PASS
2DH5	Ant1	2402	3.25	≤20.97	1.56	4.81	≤36	PASS
		2441	3.62	≤20.97	1.56	5.18	≤36	PASS
		2480	3.79	≤20.97	1.56	5.35	≤36	PASS
3DH5	Ant1	2402	3.44	≤20.97	1.56	5.0	≤36	PASS
		2441	3.74	≤20.97	1.56	5.3	≤36	PASS
		2480	3.9	≤20.97	1.56	5.46	≤36	PASS

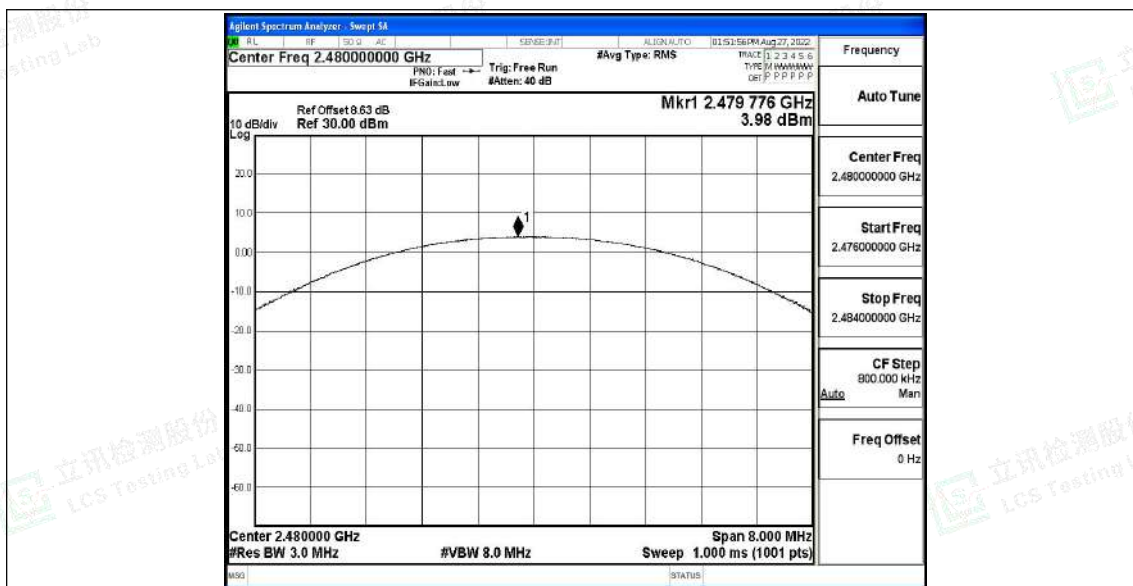


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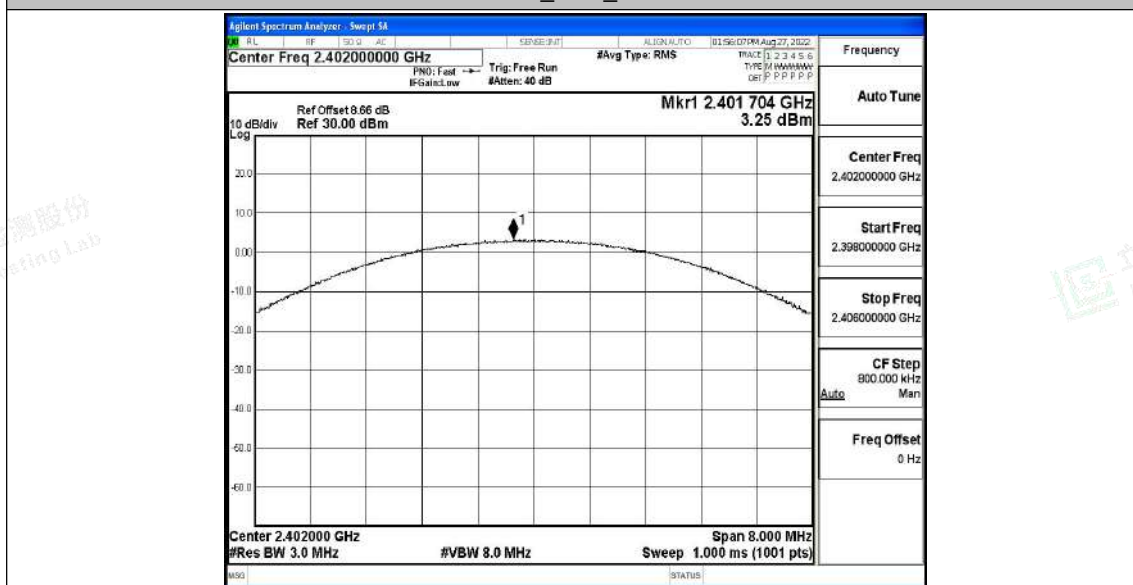


Test Graphs



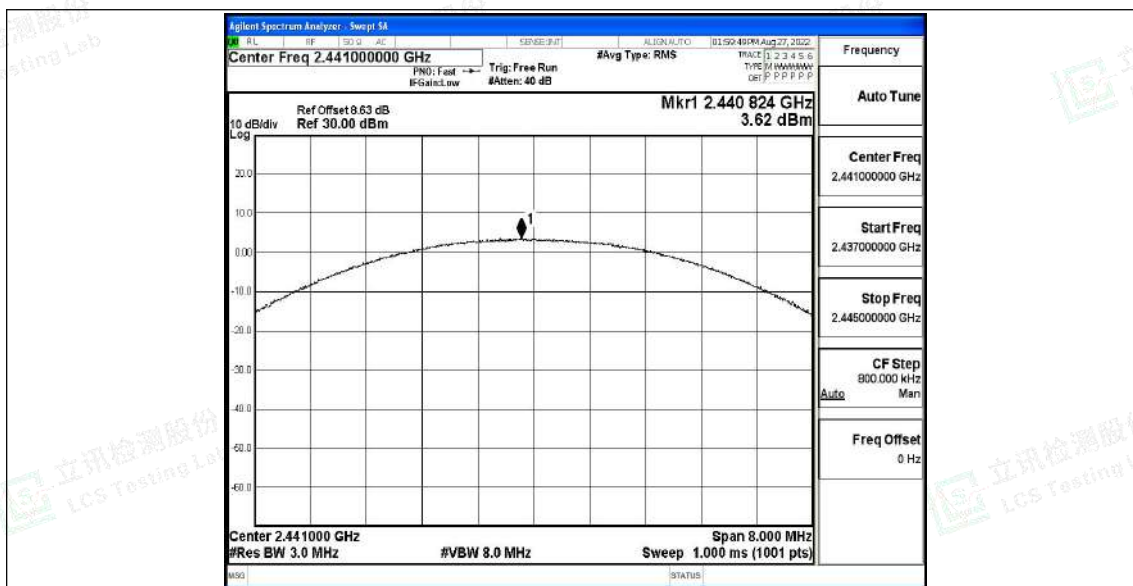


2DH5_Ant1_2402

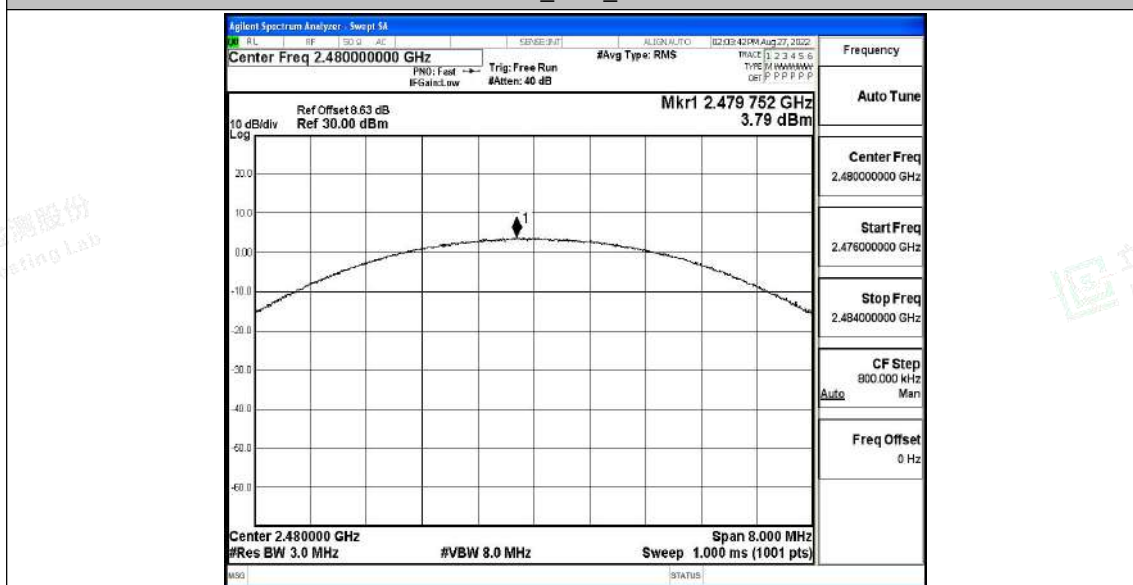


2DH5_Ant1_2441



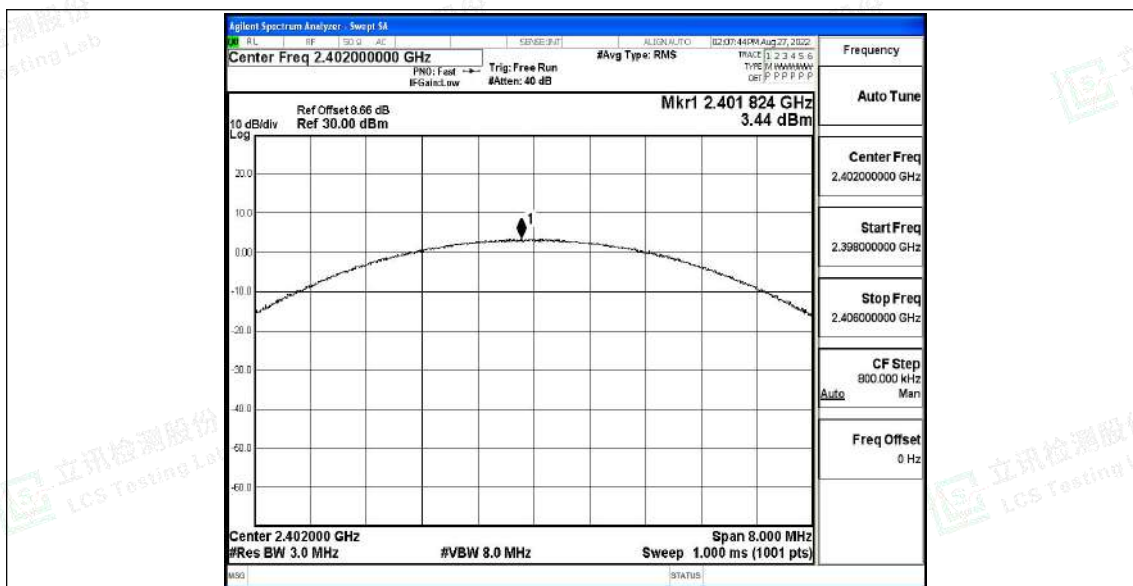


2DH5_Ant1_2480

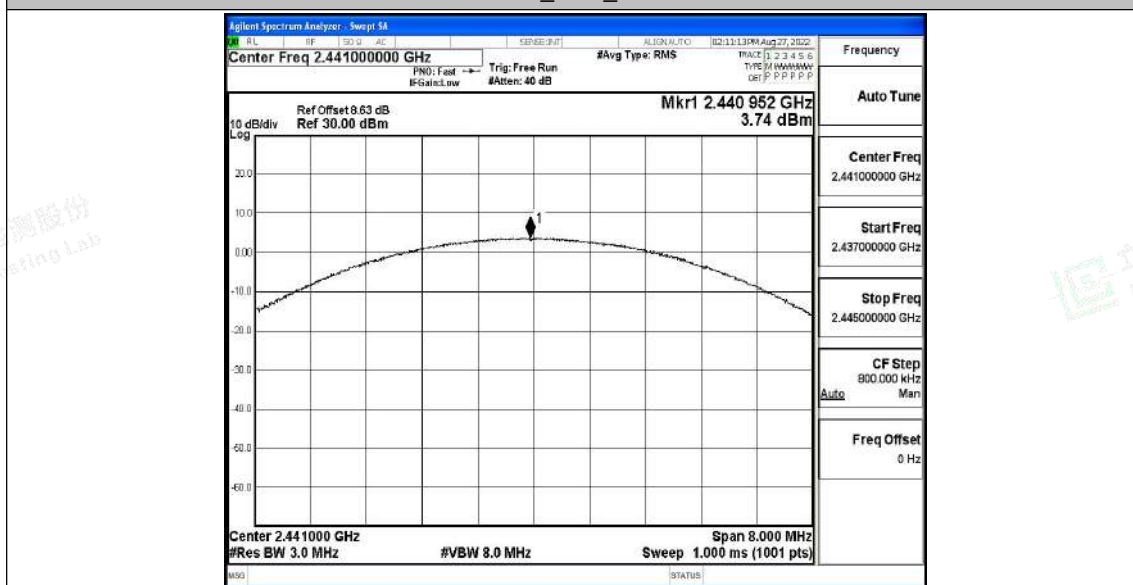


3DH5_Ant1_2402



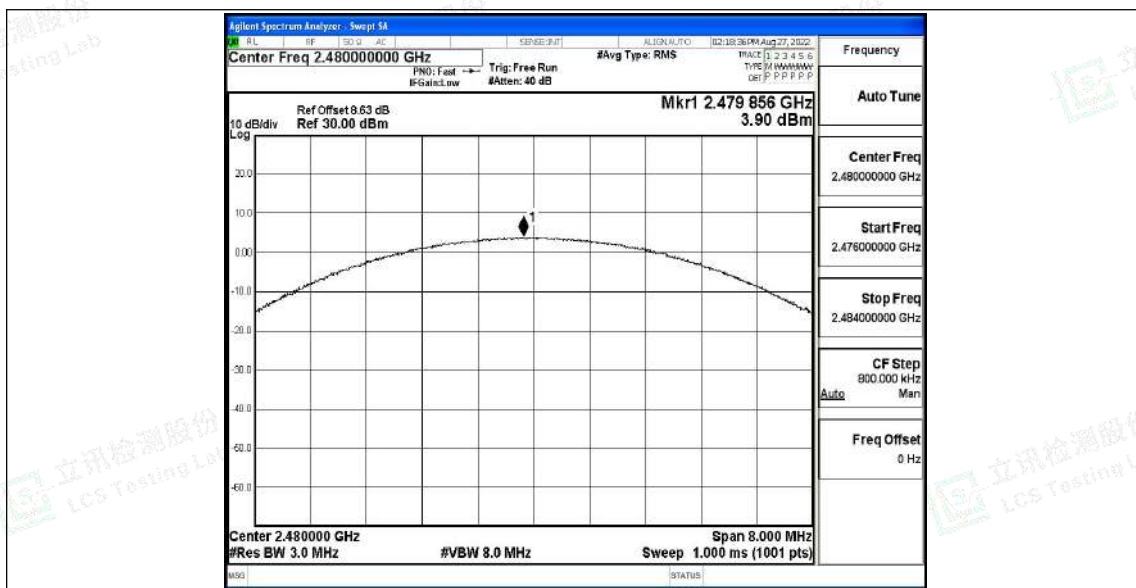


3DH5_Ant1_2441



3DH5_Ant1_2480





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A.4 Carrier frequency separation

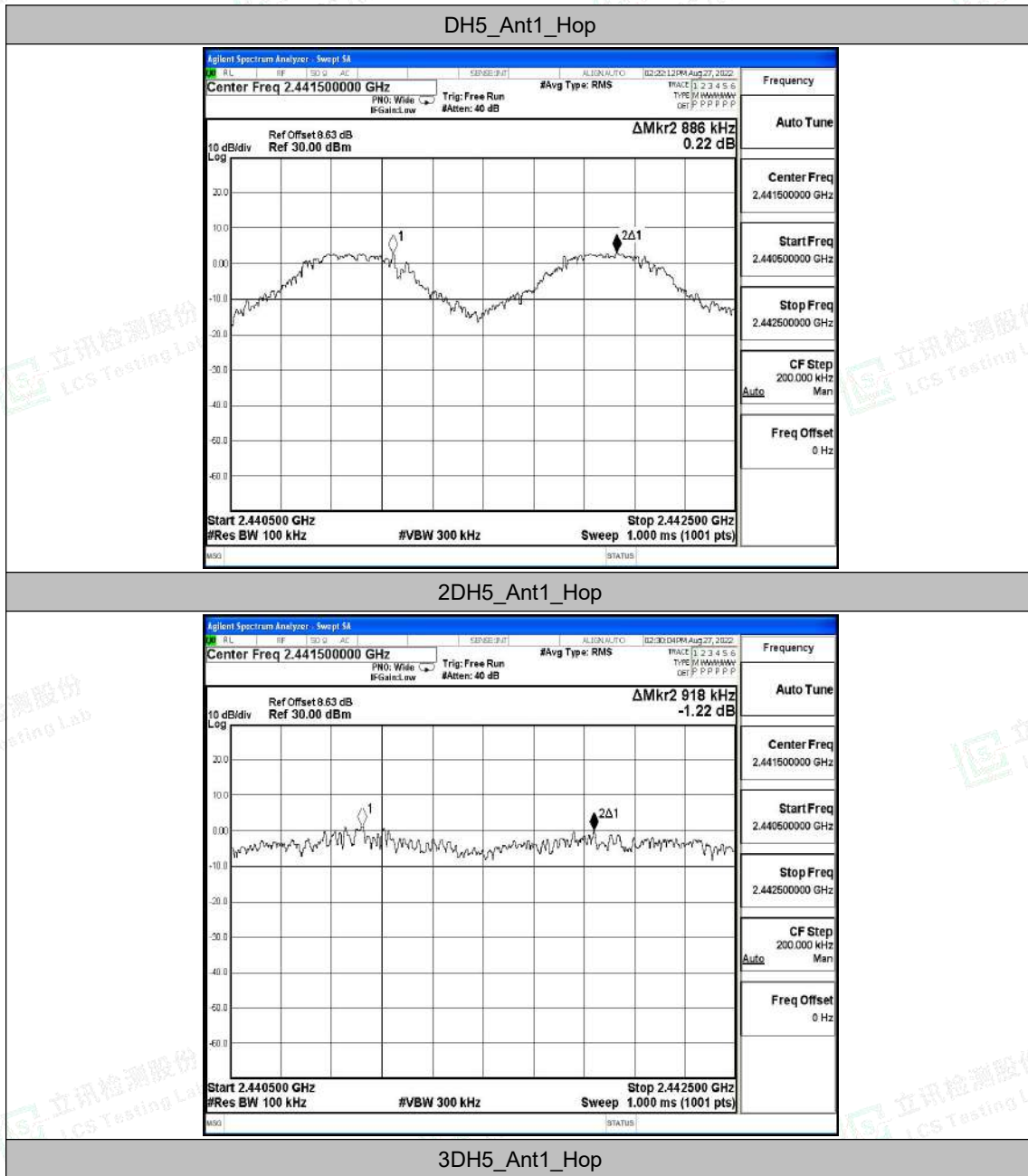
Test Result

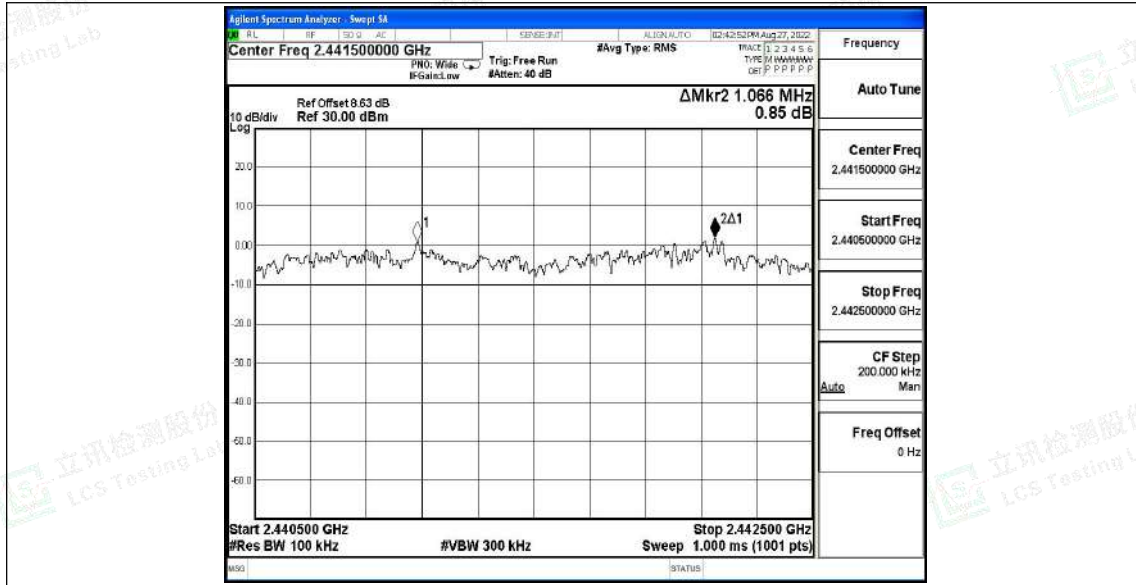
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.886	≥0.686	PASS
2DH5	Ant1	Hop	0.918	≥0.904	PASS
3DH5	Ant1	Hop	1.066	≥0.892	PASS





Test Graphs







A.5 Time of occupancy

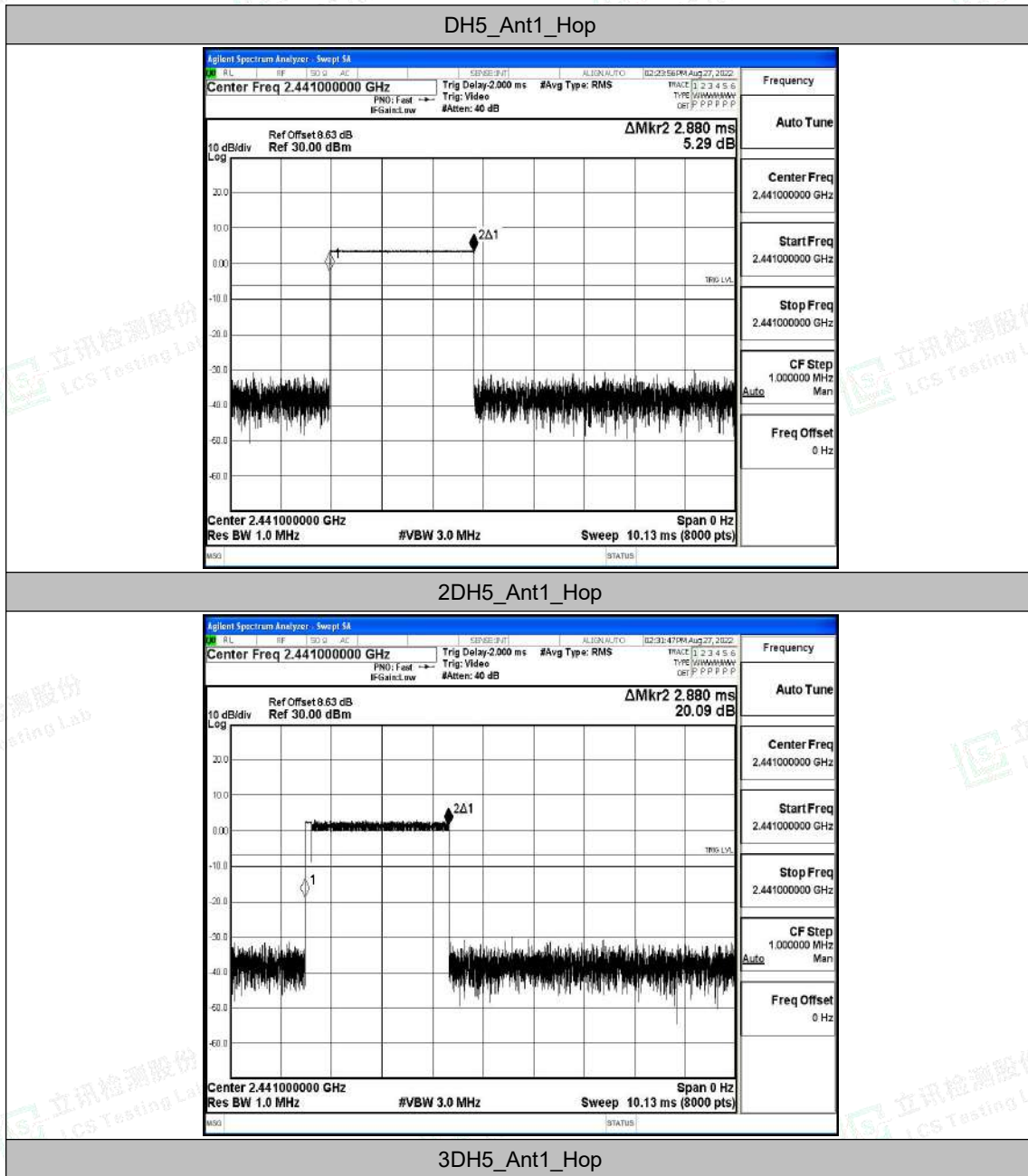
Test Result

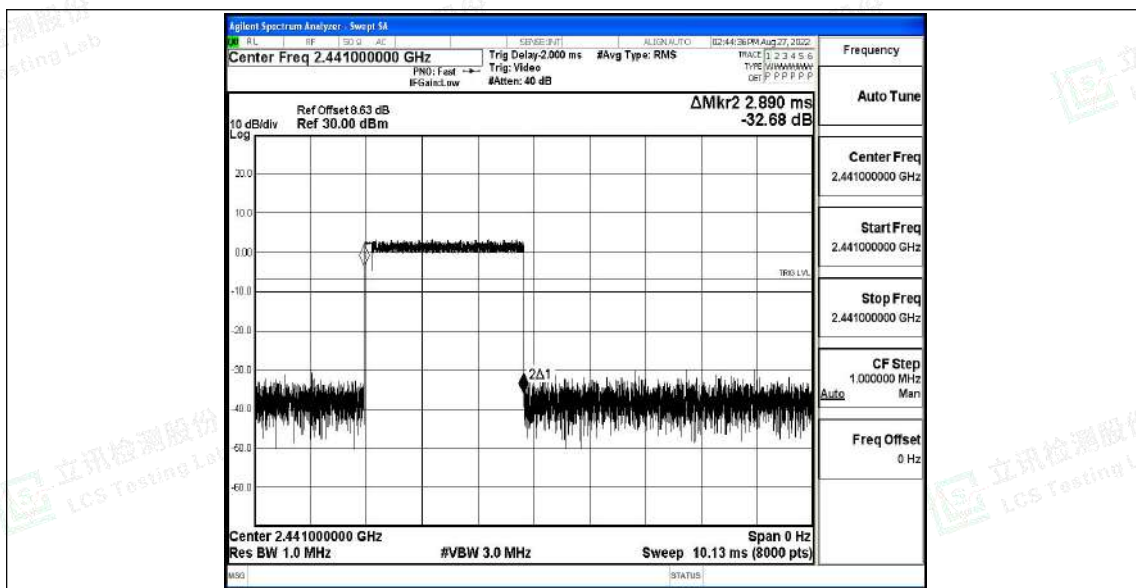
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs





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A.6 Number of hopping channels

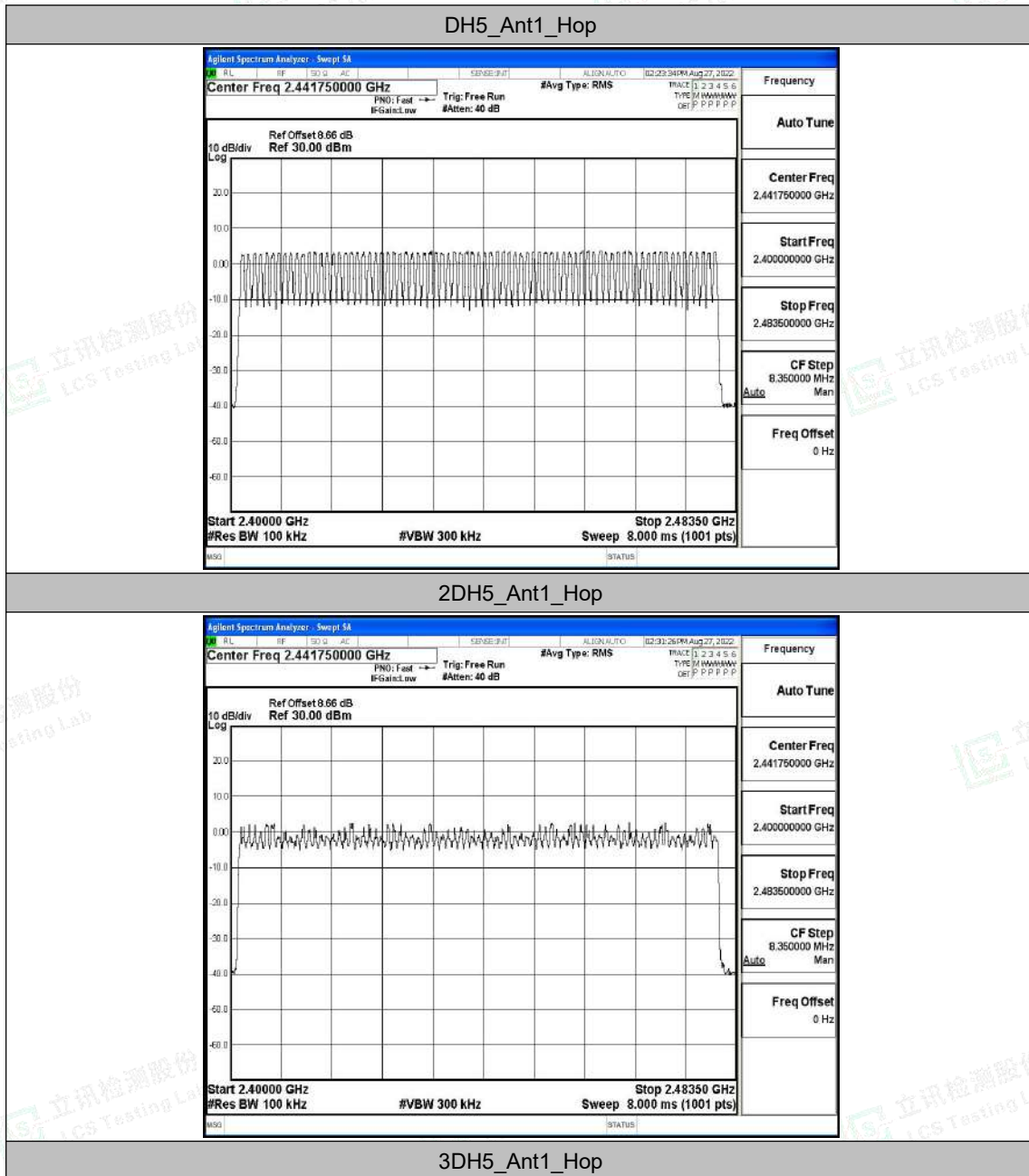
Test Result

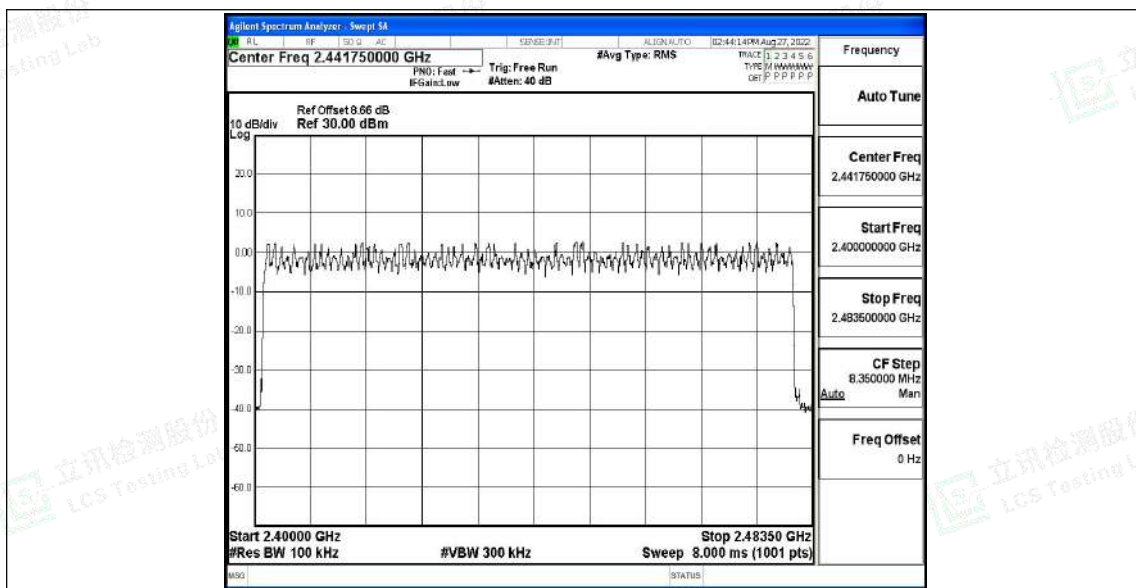
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.7 Band edge measurements

Test Result

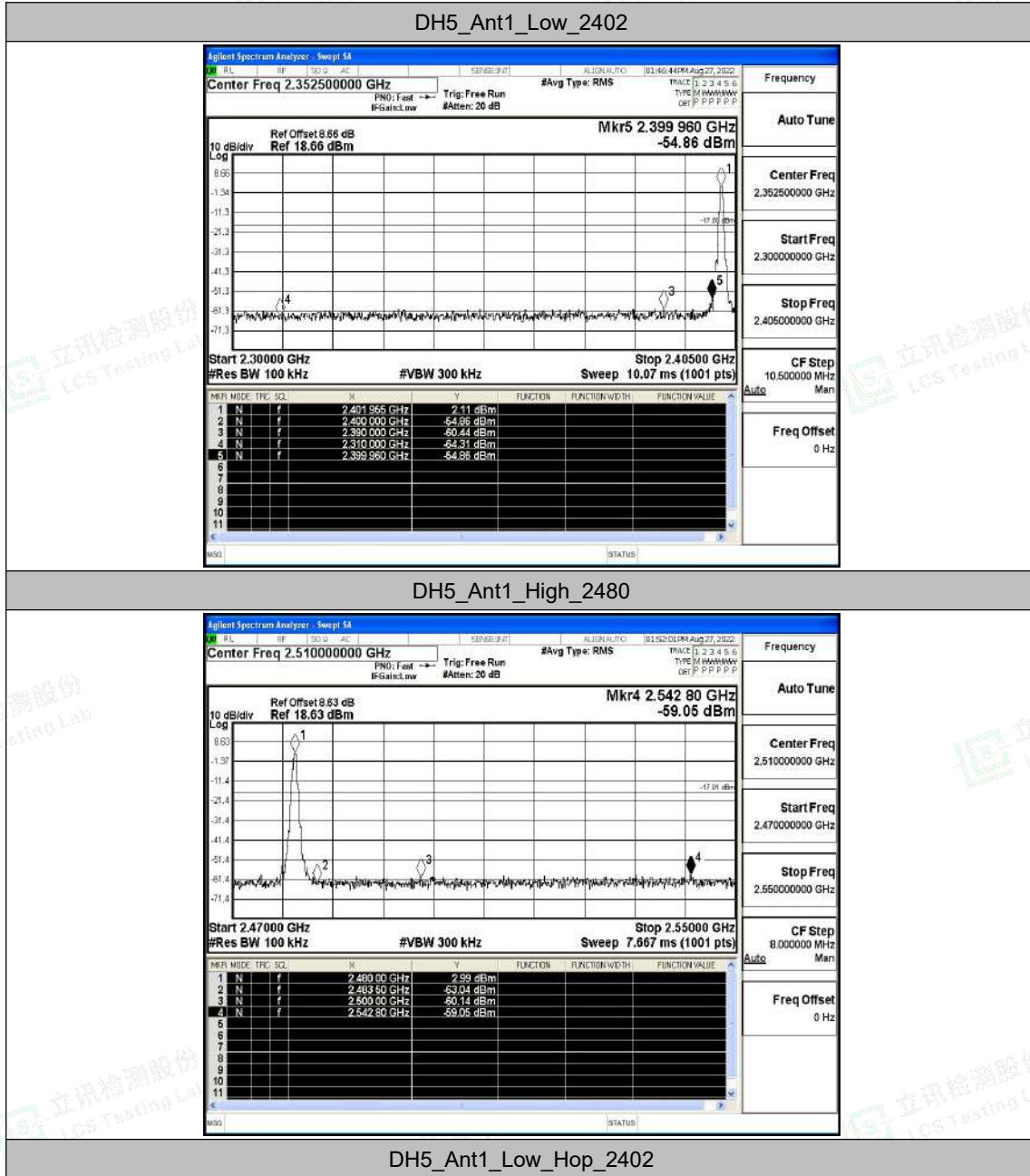
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.11	-54.86	≤-17.89	PASS
		High	2480	2.99	-59.05	≤-17.01	PASS
		Low	Hop_2402	2.24	-58.54	≤-17.76	PASS
		High	Hop_2480	3.53	-56.96	≤-16.48	PASS
2DH5	Ant1	Low	2402	-1.20	-56.7	≤-21.2	PASS
		High	2480	-1.44	-57.57	≤-21.44	PASS
		Low	Hop_2402	0.32	-59.29	≤-19.68	PASS
		High	Hop_2480	2.53	-57.44	≤-17.47	PASS
3DH5	Ant1	Low	2402	-1.76	-56.63	≤-21.76	PASS
		High	2480	2.60	-59.47	≤-17.4	PASS
		Low	Hop_2402	1.16	-58.08	≤-18.84	PASS
		High	Hop_2480	1.90	-57.53	≤-18.1	PASS

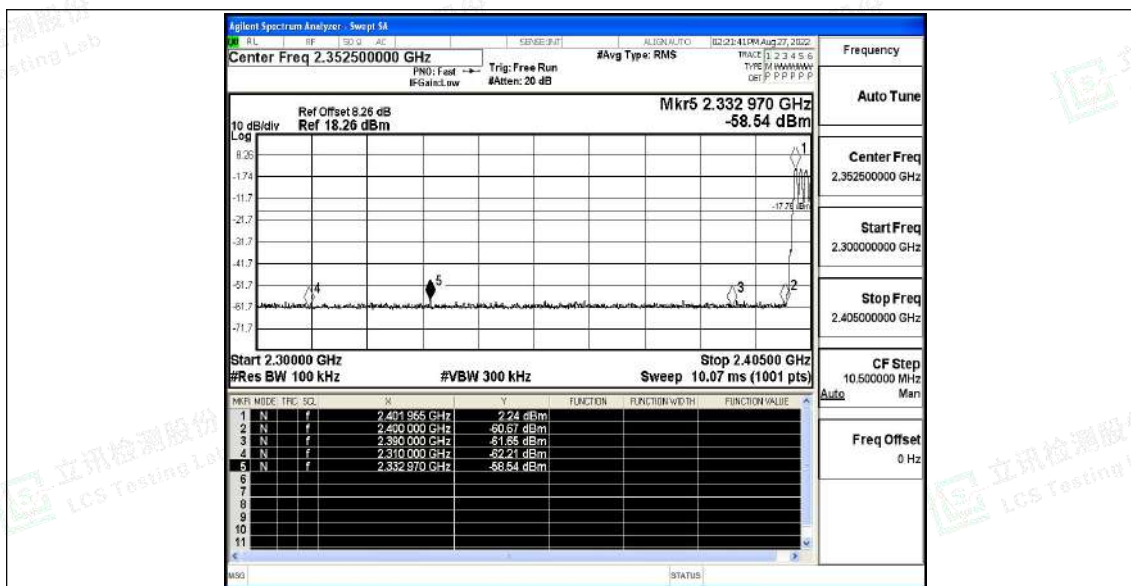


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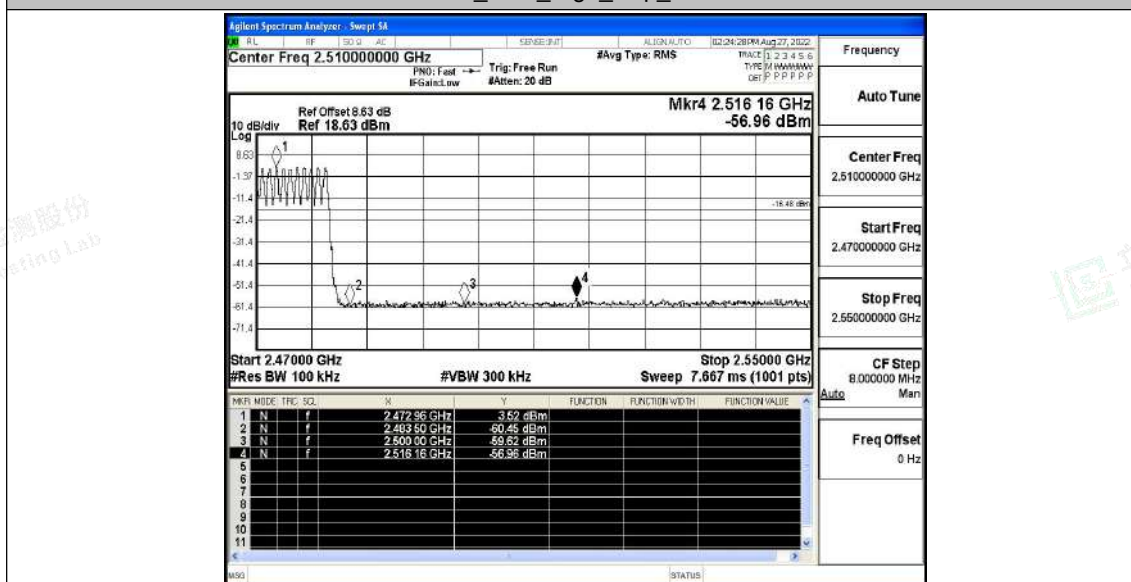


Test Graphs



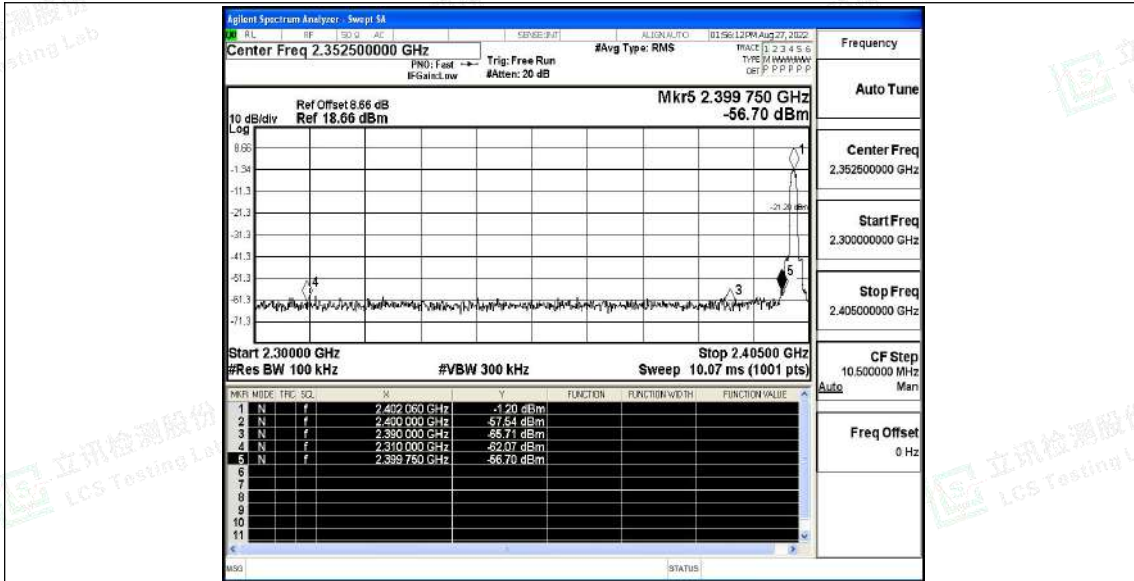


DH5_Ant1_High_Hop_2480

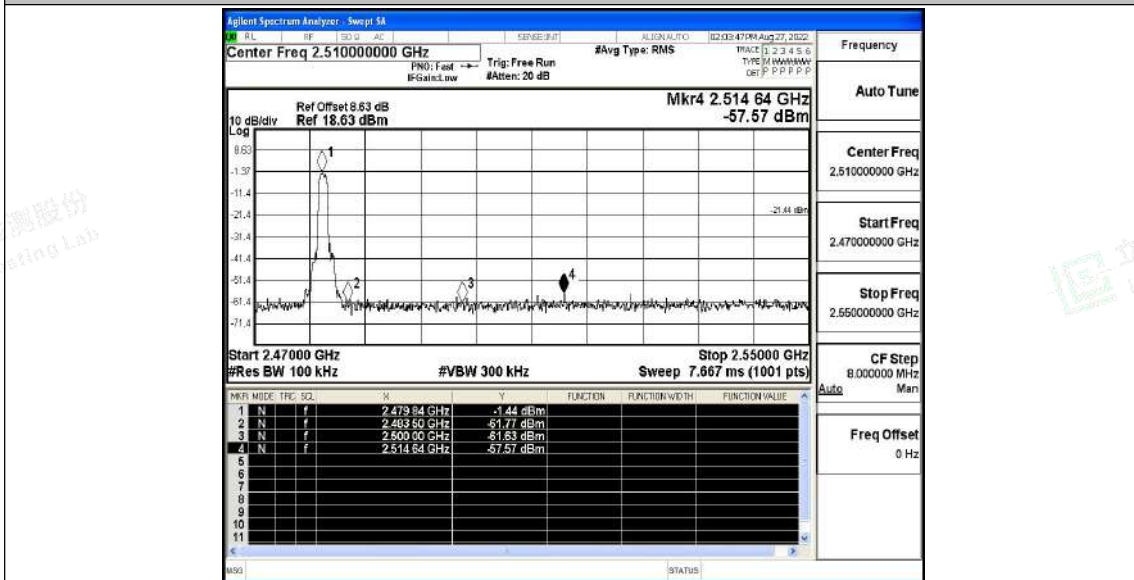


2DH5_Ant1_Low_2402



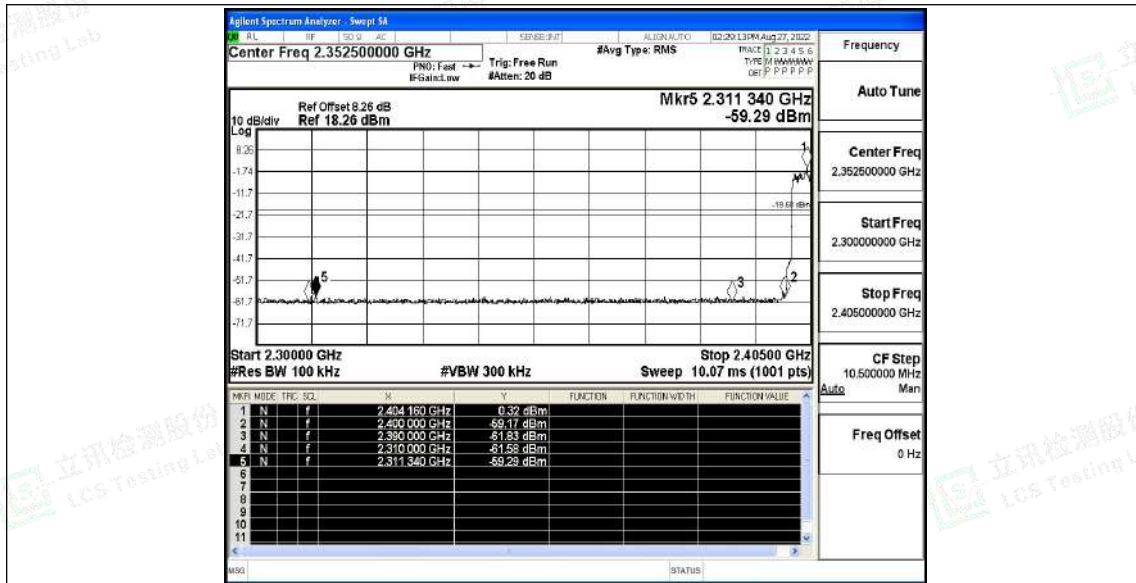


2DH5_Ant1_High_2480

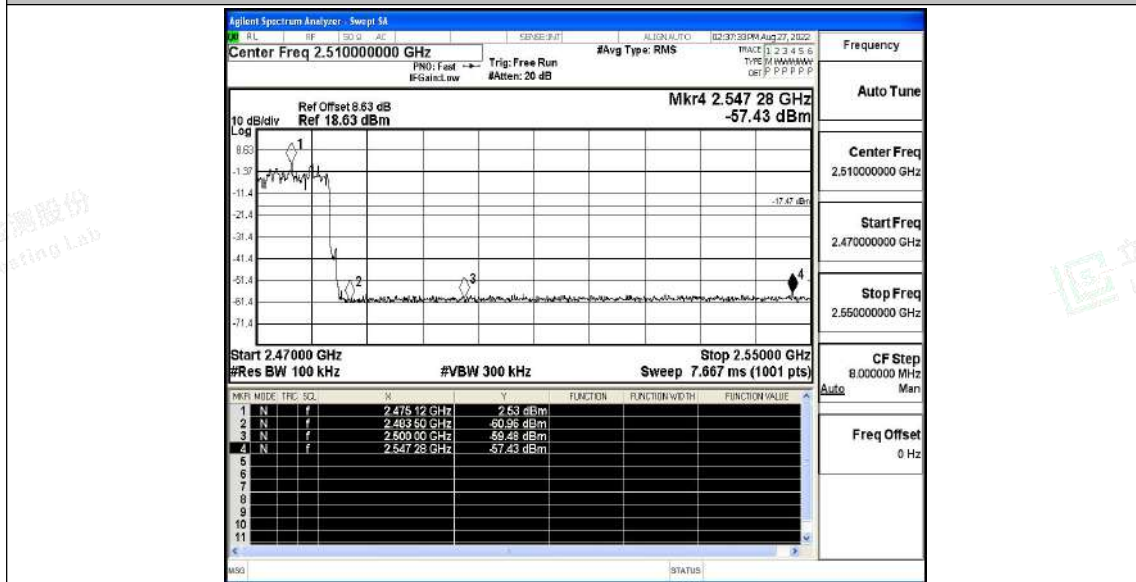


2DH5_Ant1_Low_Hop_2402



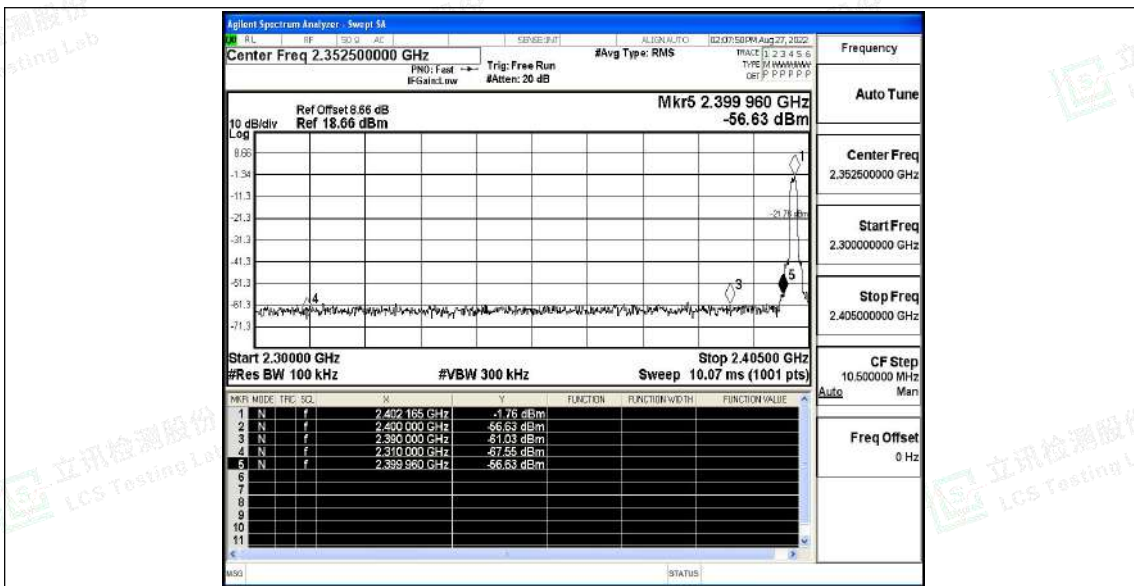


2DH5_Ant1_High_Hop_2480

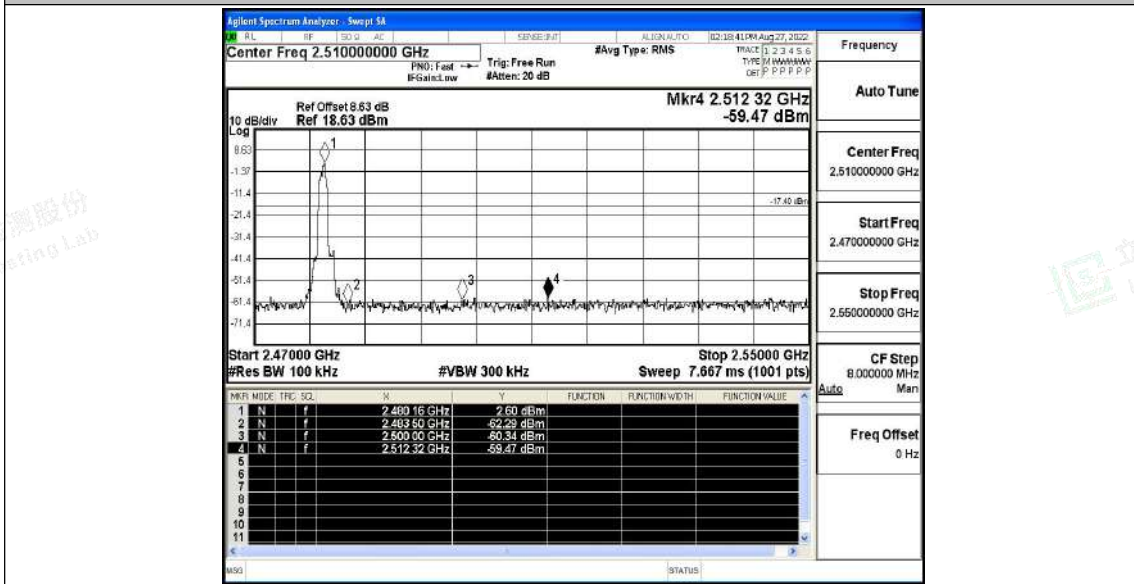


3DH5_Ant1_Low_2402



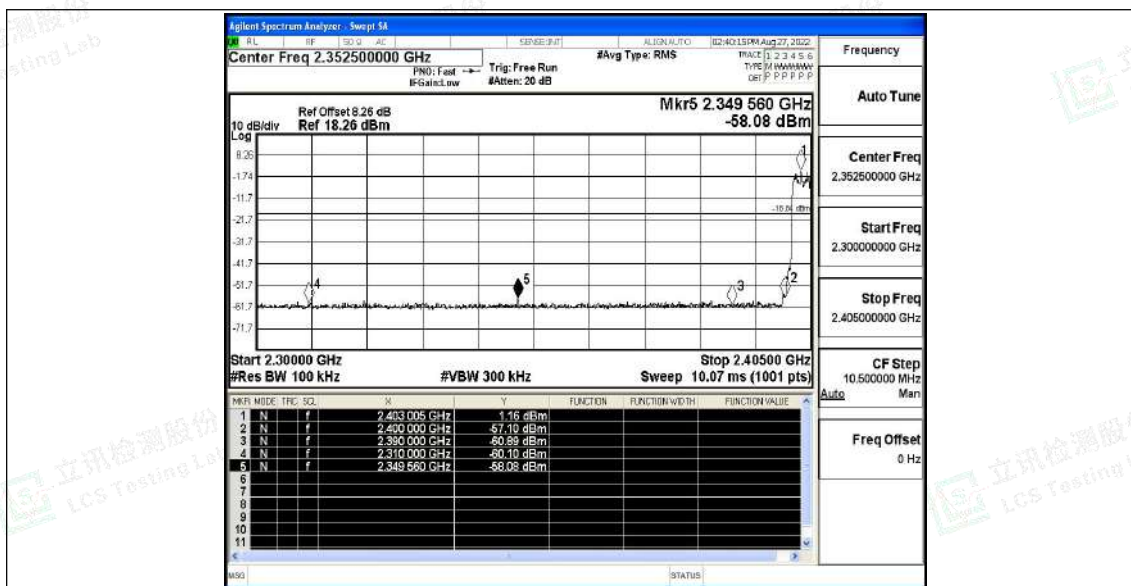


3DH5_Ant1_High_2480

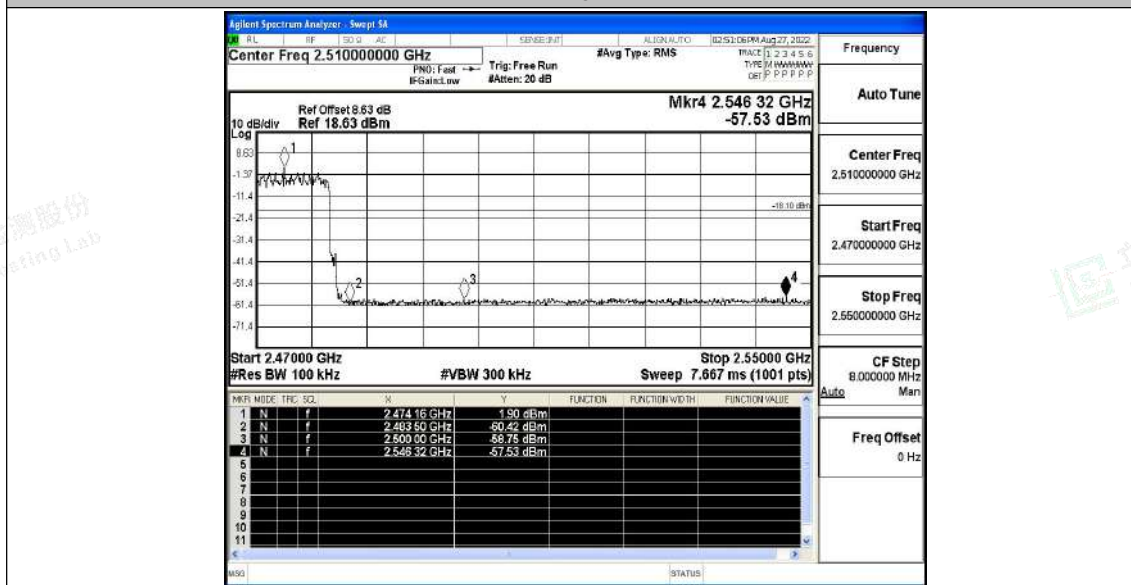


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.8 Conducted Spurious Emission

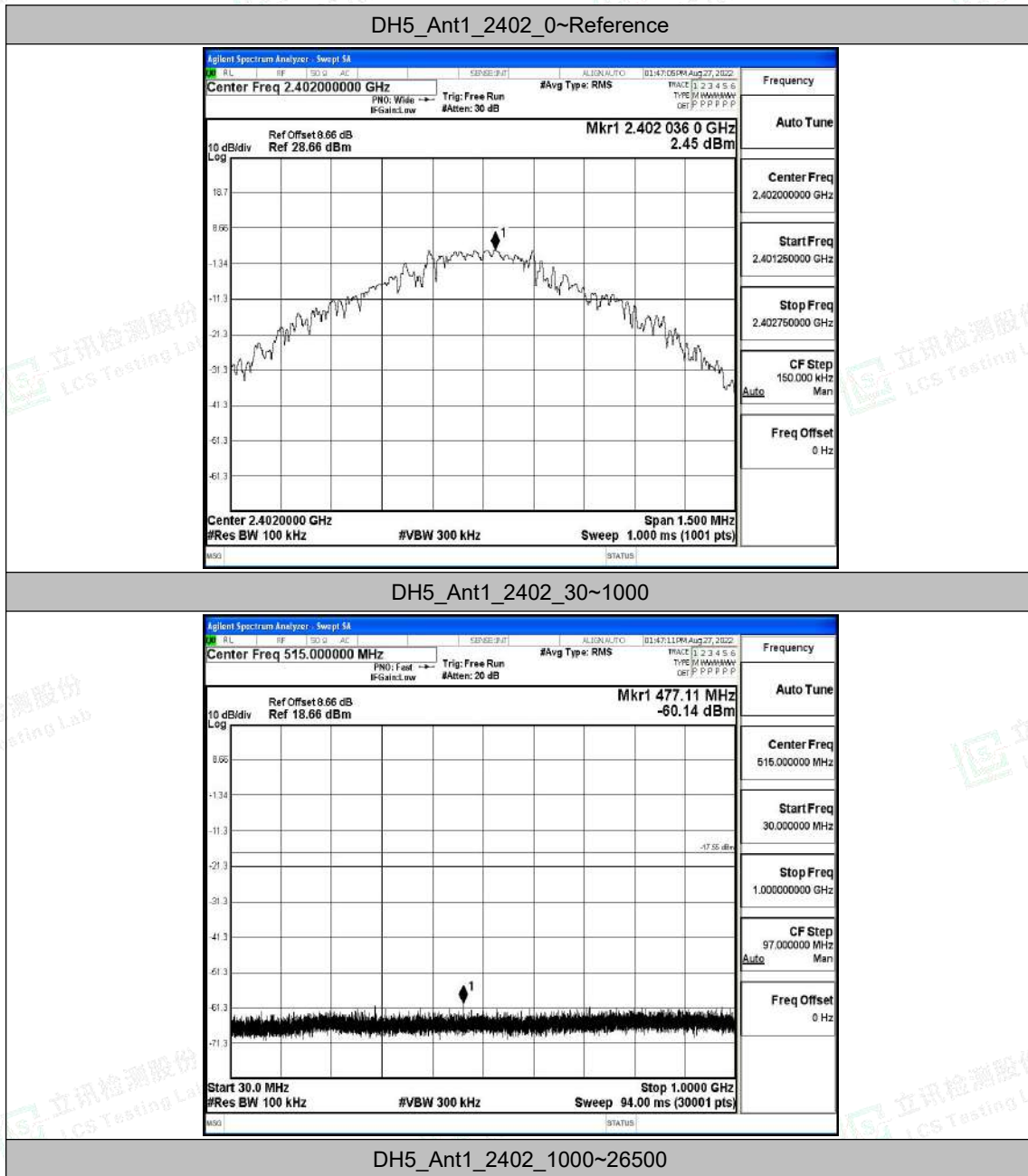
Test Result

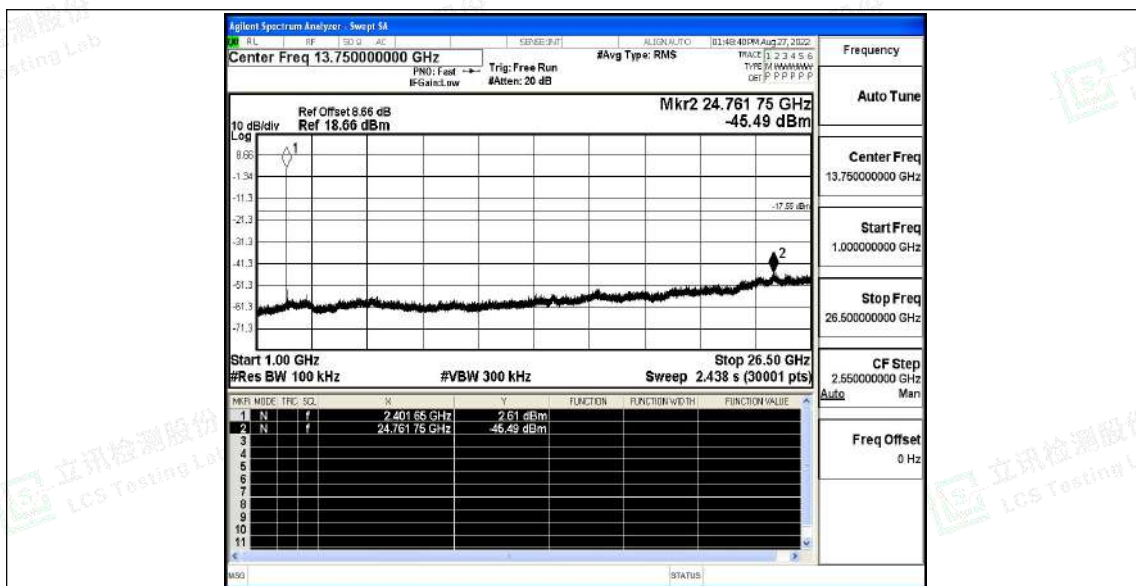
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.45	2.45	---	PASS
			30~1000	2.45	-60.14	≤-17.55	PASS
			1000~26500	2.45	-45.49	≤-17.55	PASS
		2441	Reference	2.53	2.53	---	PASS
			30~1000	2.53	-60.83	≤-17.47	PASS
			1000~26500	2.53	-44.52	≤-17.47	PASS
		2480	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-59.95	≤-17.25	PASS
			1000~26500	2.75	-45.69	≤-17.25	PASS
2DH5	Ant1	2402	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-60.2	≤-22.11	PASS
			1000~26500	-2.11	-46.03	≤-22.11	PASS
		2441	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-60.52	≤-21.49	PASS
			1000~26500	-1.49	-45.88	≤-21.49	PASS
		2480	Reference	-2.10	-2.10	---	PASS
			30~1000	-2.10	-60.74	≤-22.1	PASS
			1000~26500	-2.10	-45.27	≤-22.1	PASS
3DH5	Ant1	2402	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-60.37	≤-21.63	PASS
			1000~26500	-1.63	-45.32	≤-21.63	PASS
		2441	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-60.19	≤-21.33	PASS
			1000~26500	-1.33	-46.16	≤-21.33	PASS
		2480	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-60.24	≤-21.29	PASS
			1000~26500	-1.29	-45.77	≤-21.29	PASS



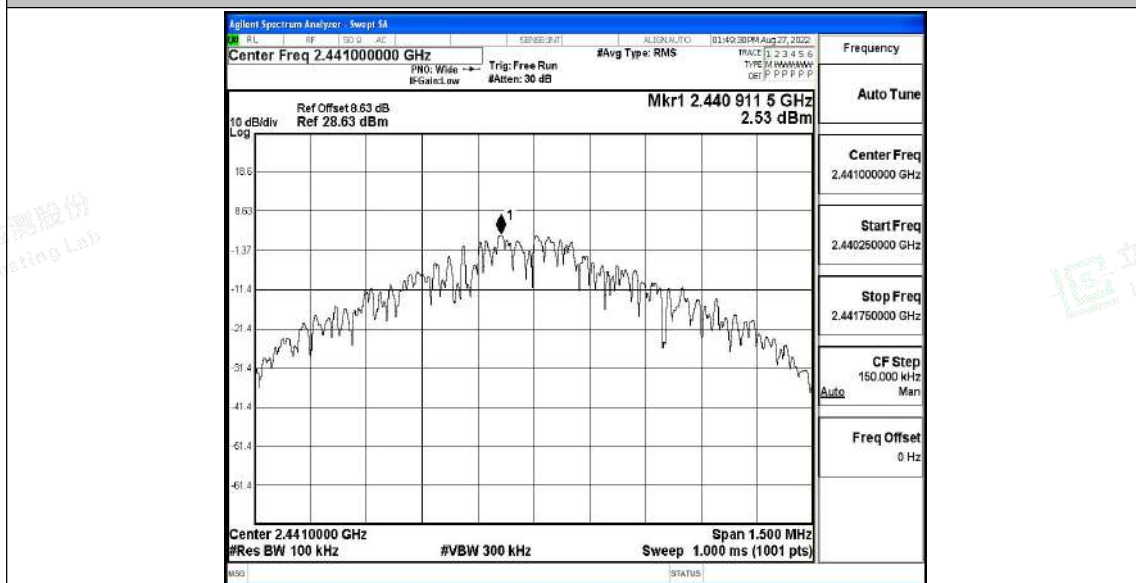


Test Graphs



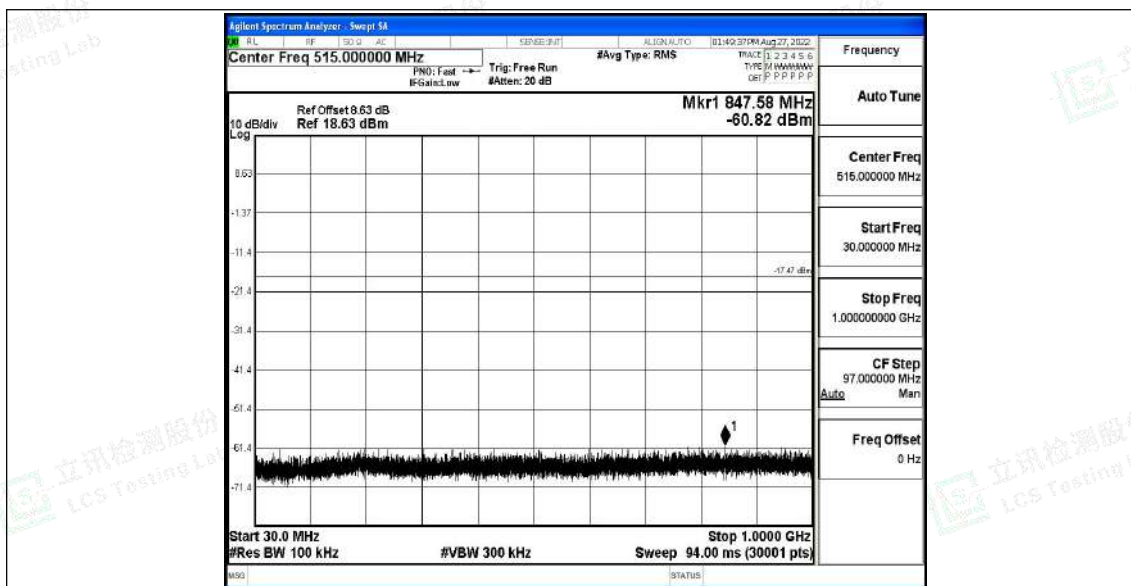


DH5_Ant1_2441_0~Reference

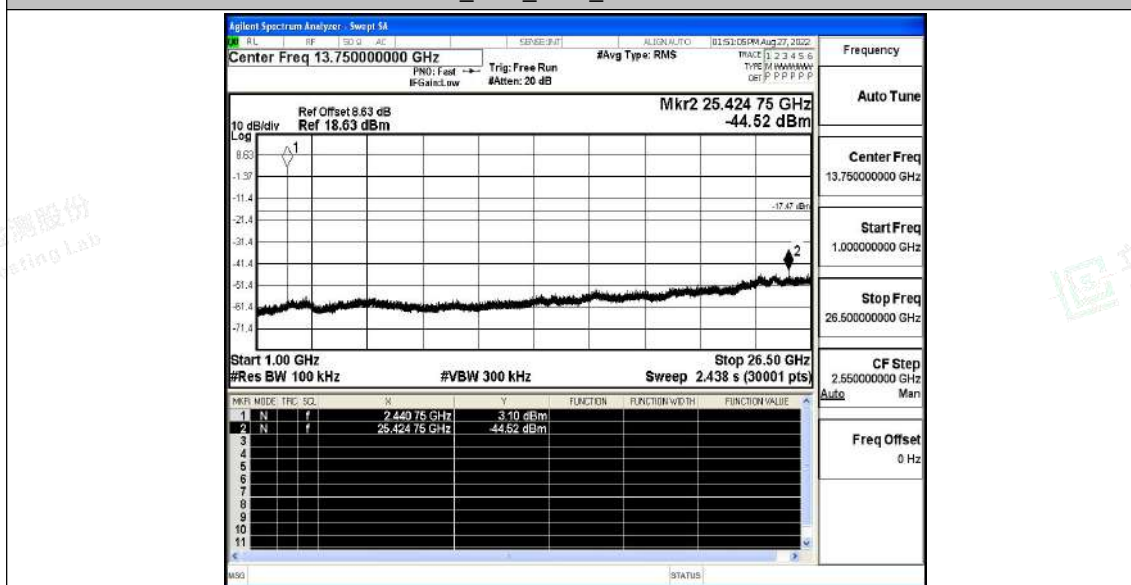


DH5_Ant1_2441_30~1000



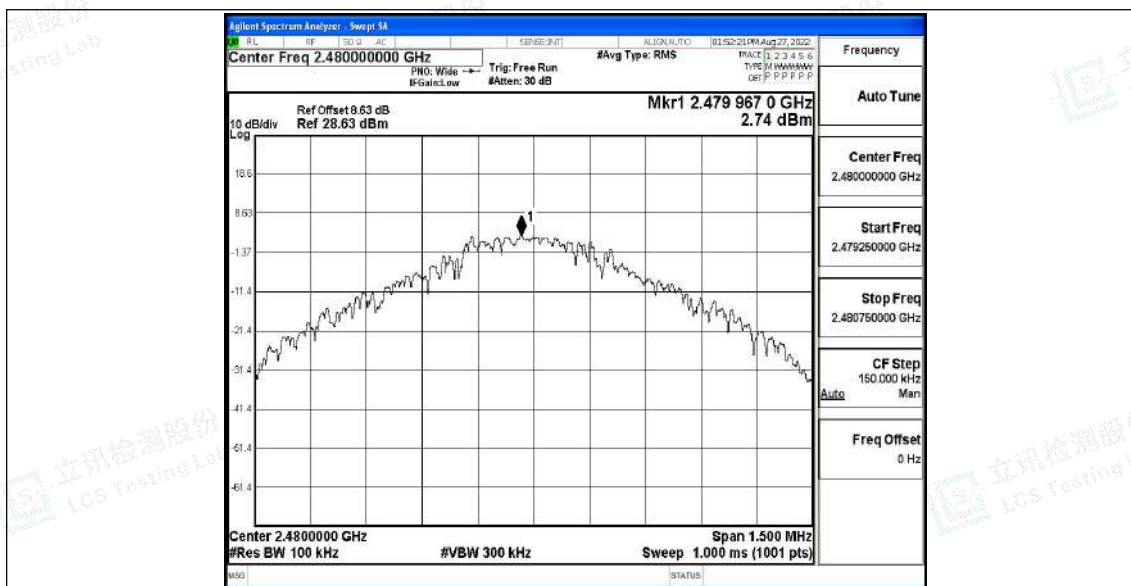


DH5_Ant1_2441_1000~26500

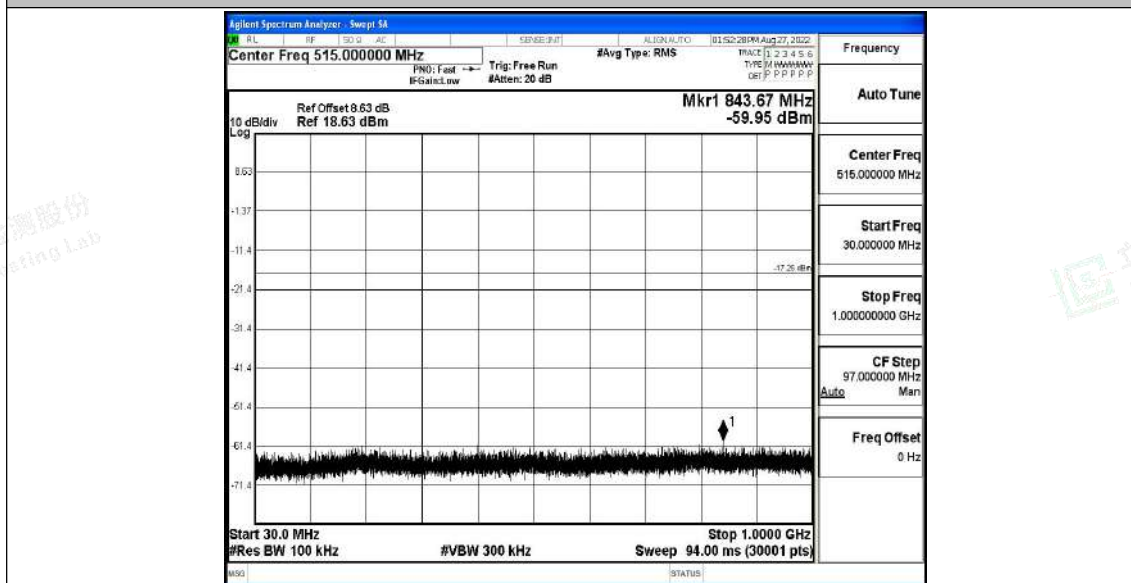


DH5_Ant1_2480_0~Reference



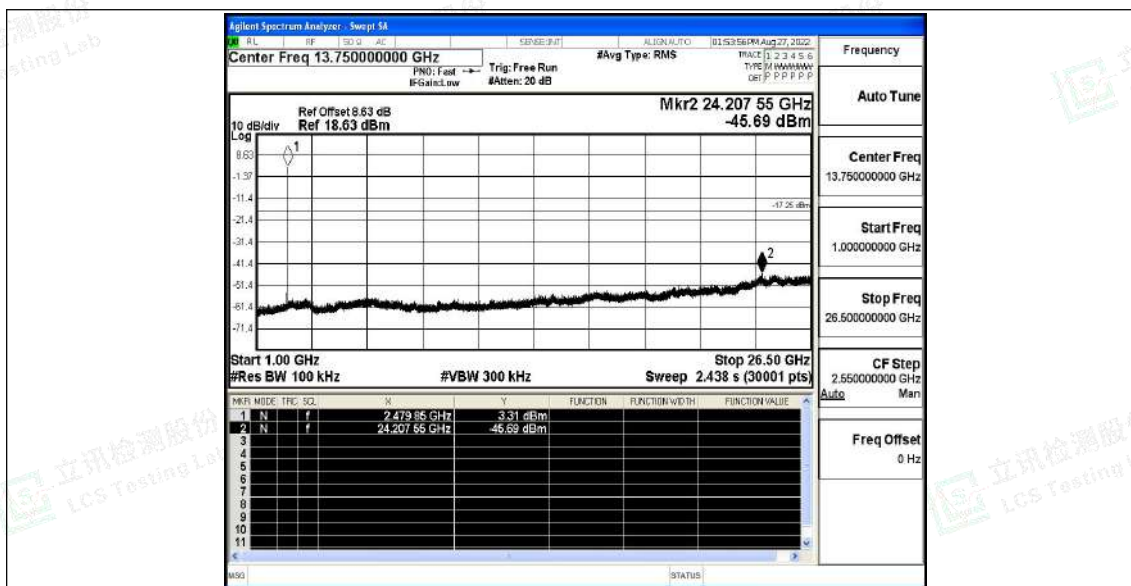


DH5_Ant1_2480_30~1000

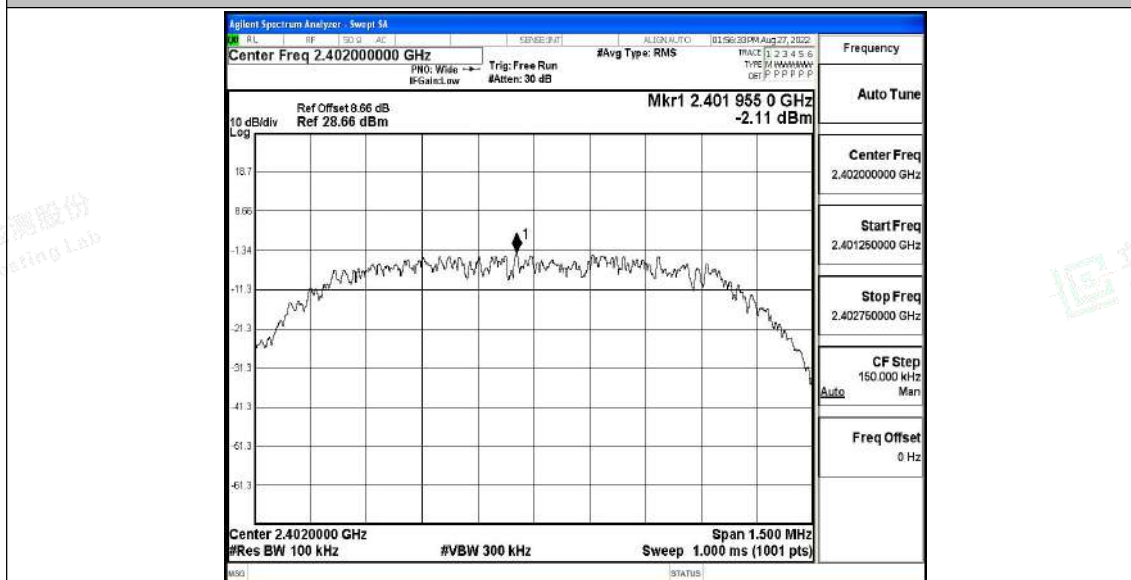


DH5_Ant1_2480_1000~26500



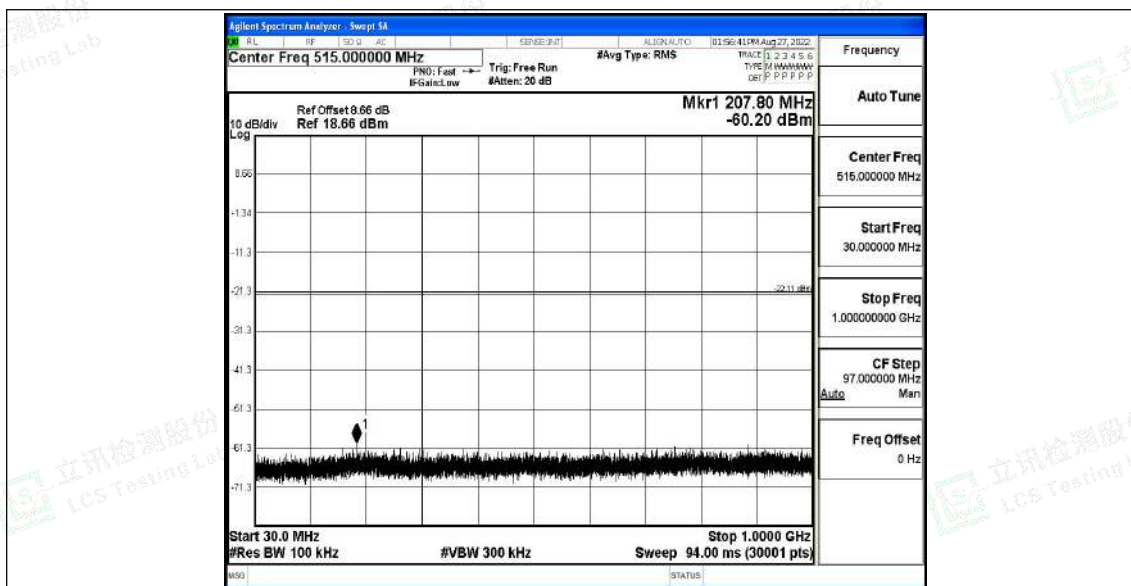


2DH5_Ant1_2402_0~Reference

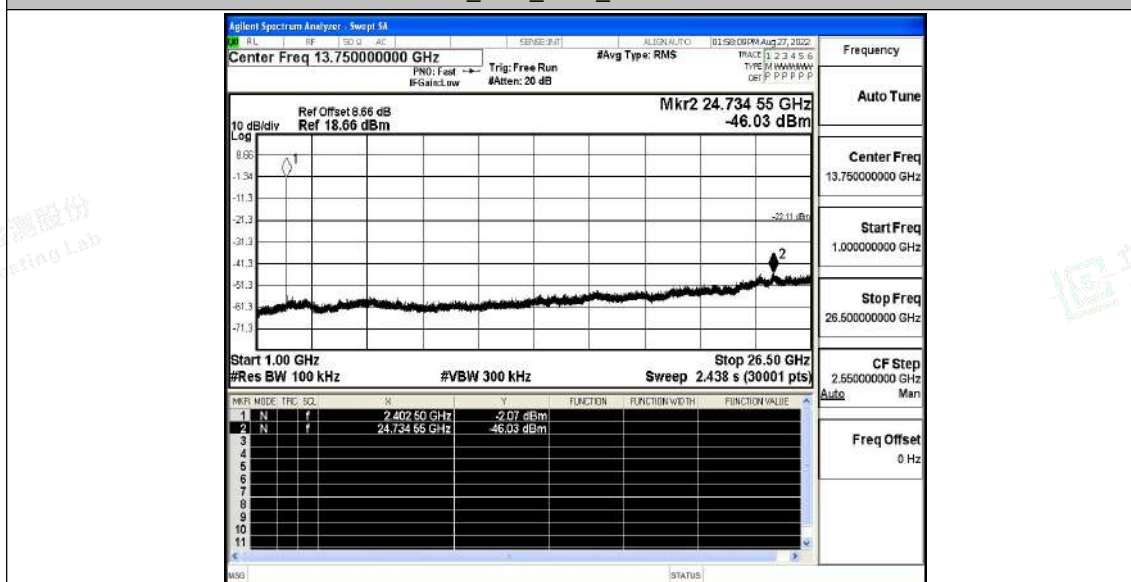


2DH5_Ant1_2402_30~1000



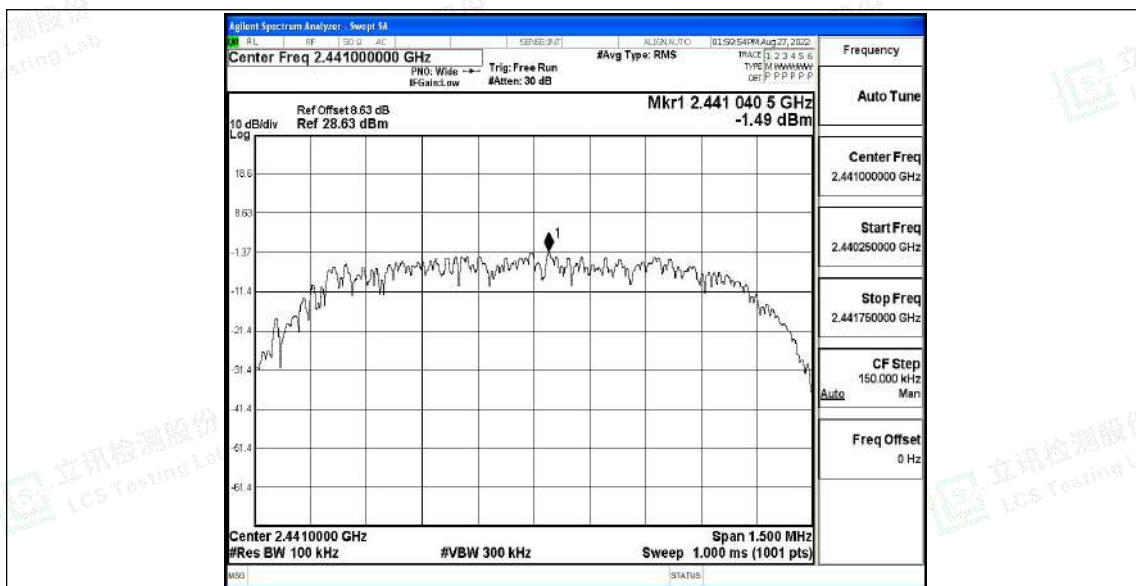


2DH5_Ant1_2402_1000~26500

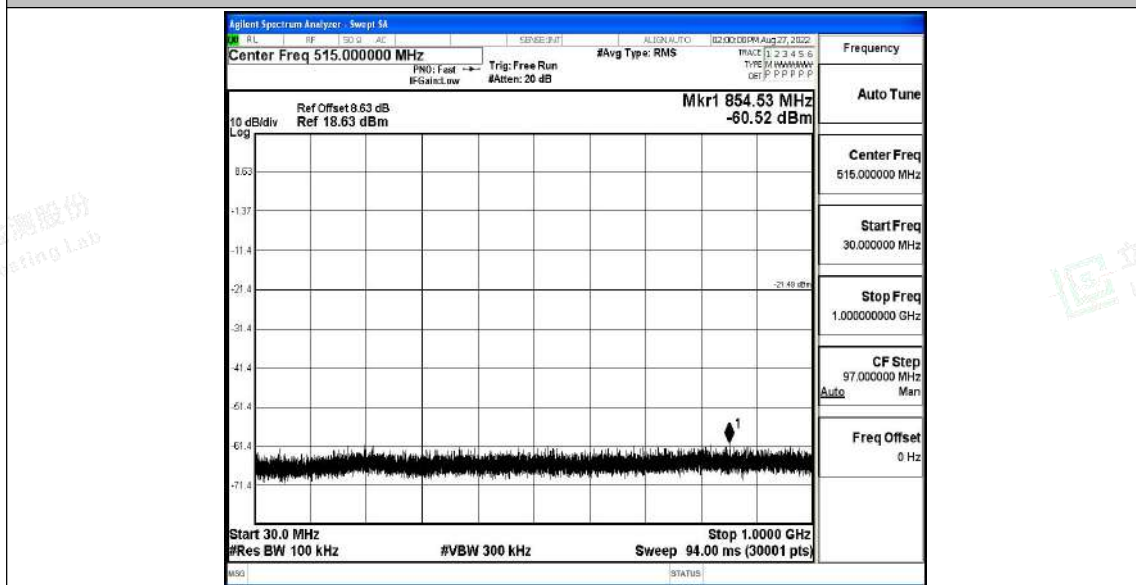


2DH5_Ant1_2441_0~Reference



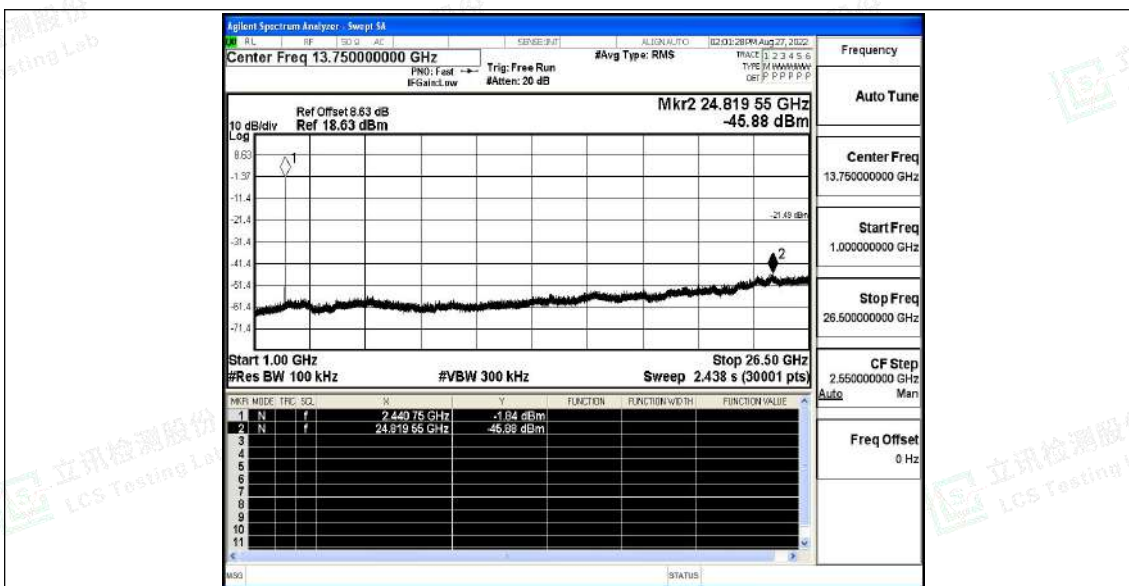


2DH5_Ant1_2441_30~1000

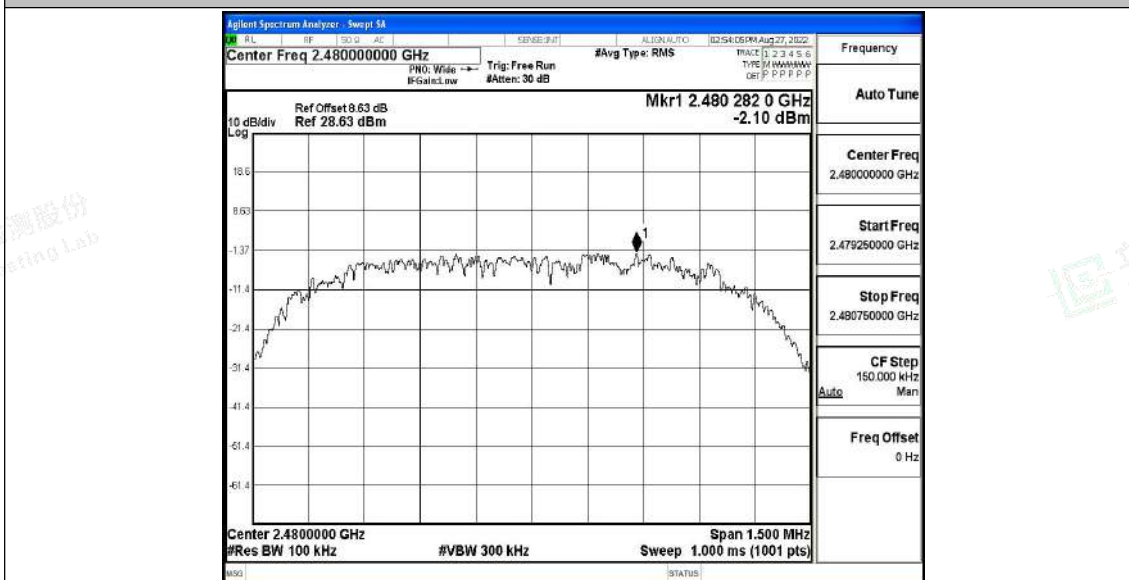


2DH5_Ant1_2441_1000~26500



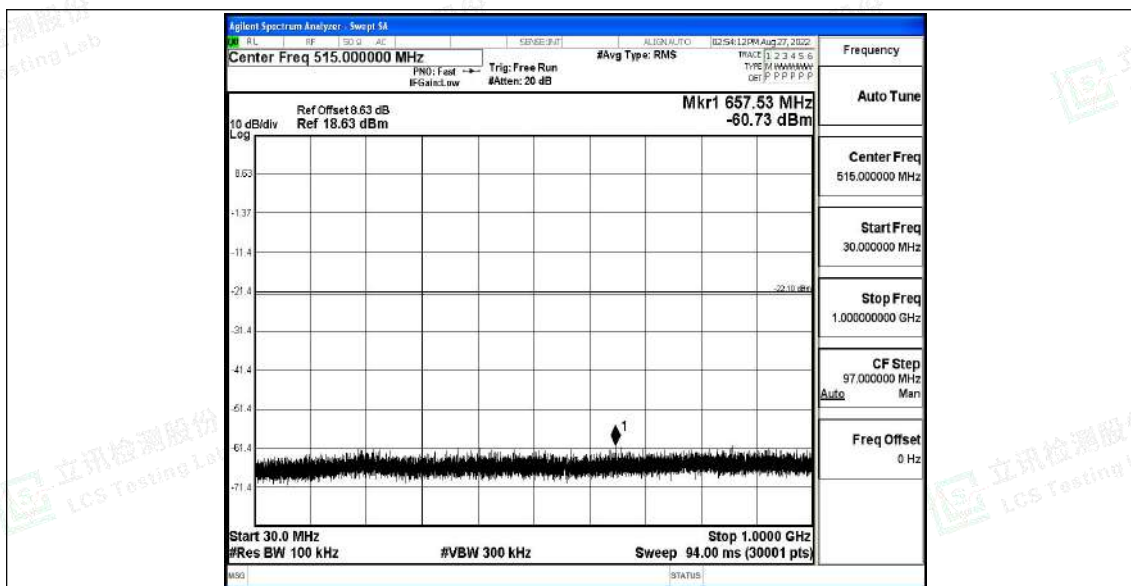


2DH5_Ant1_2480_0~Reference

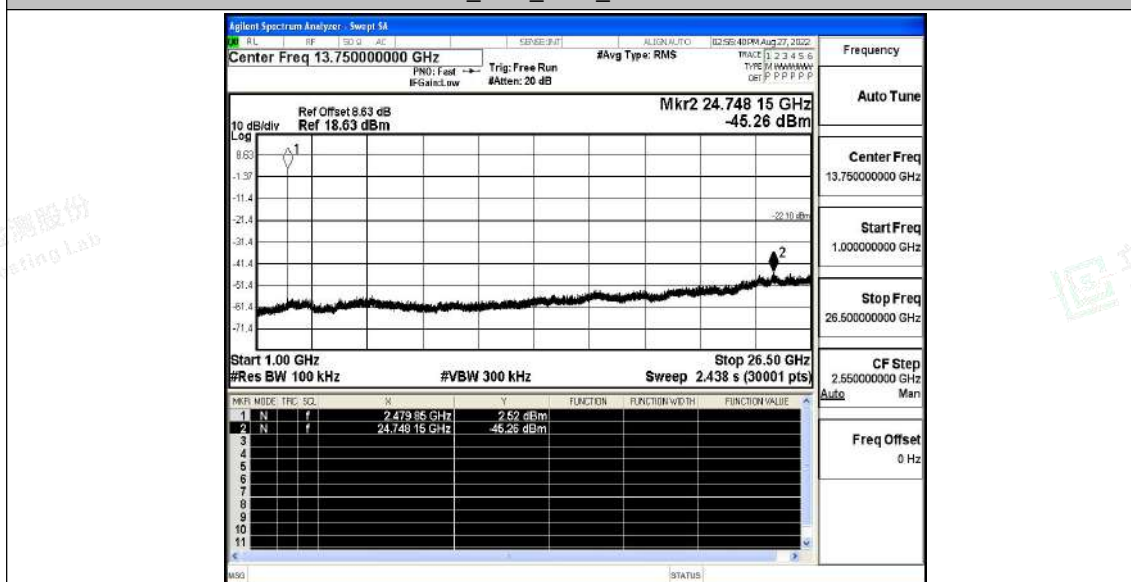


2DH5_Ant1_2480_30~1000



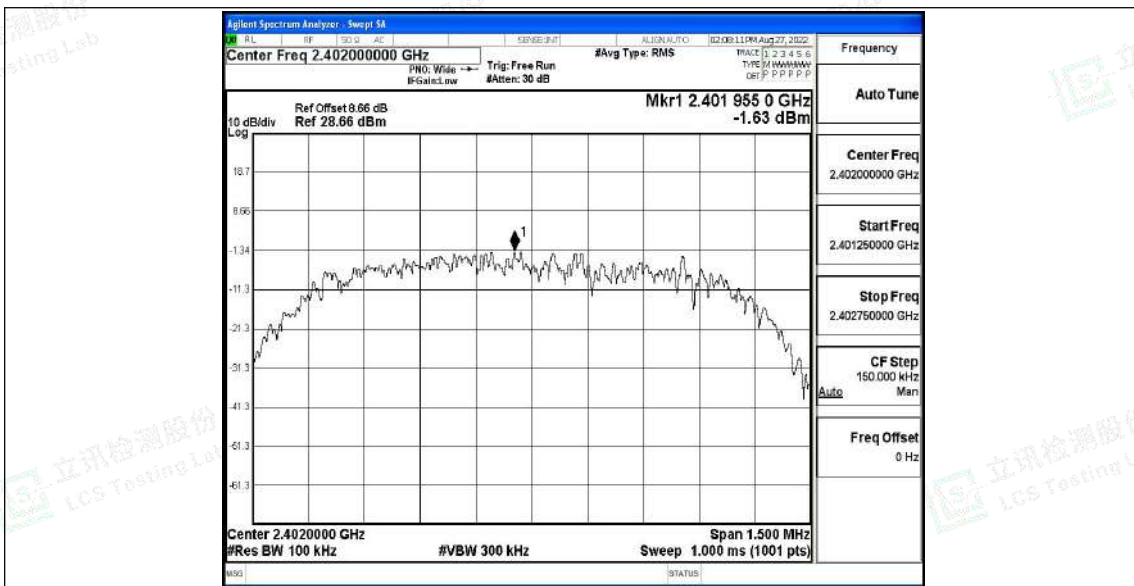


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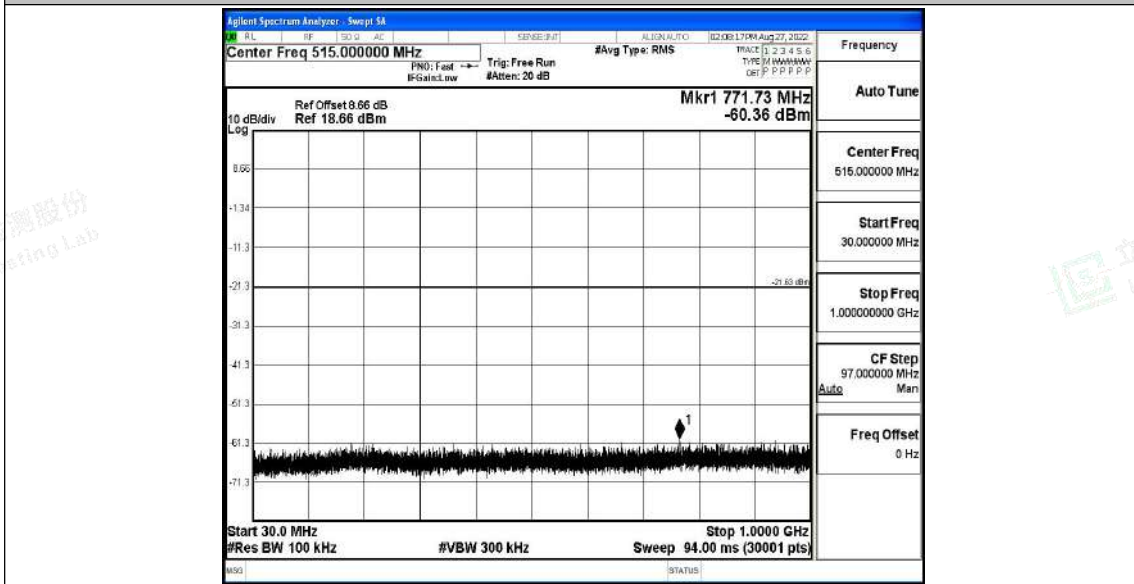


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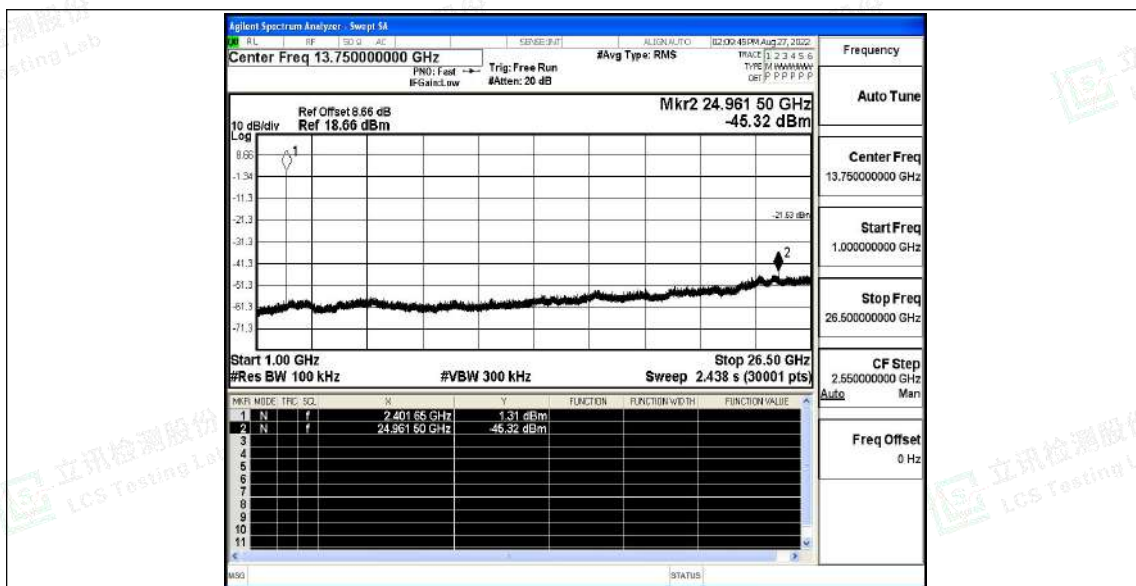


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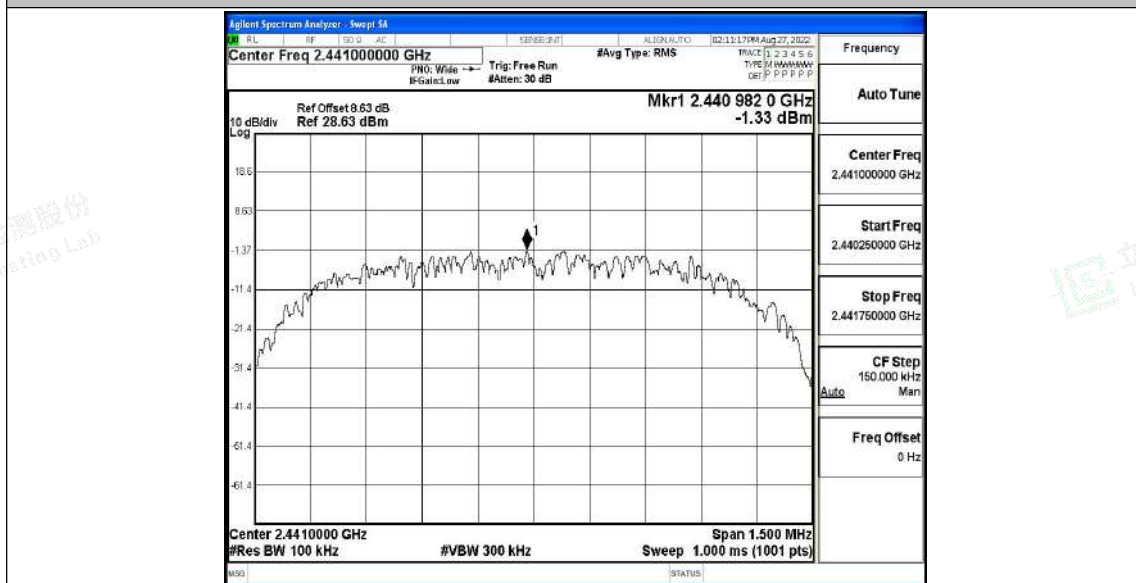


3DH5_Ant1_2402_1000~26500



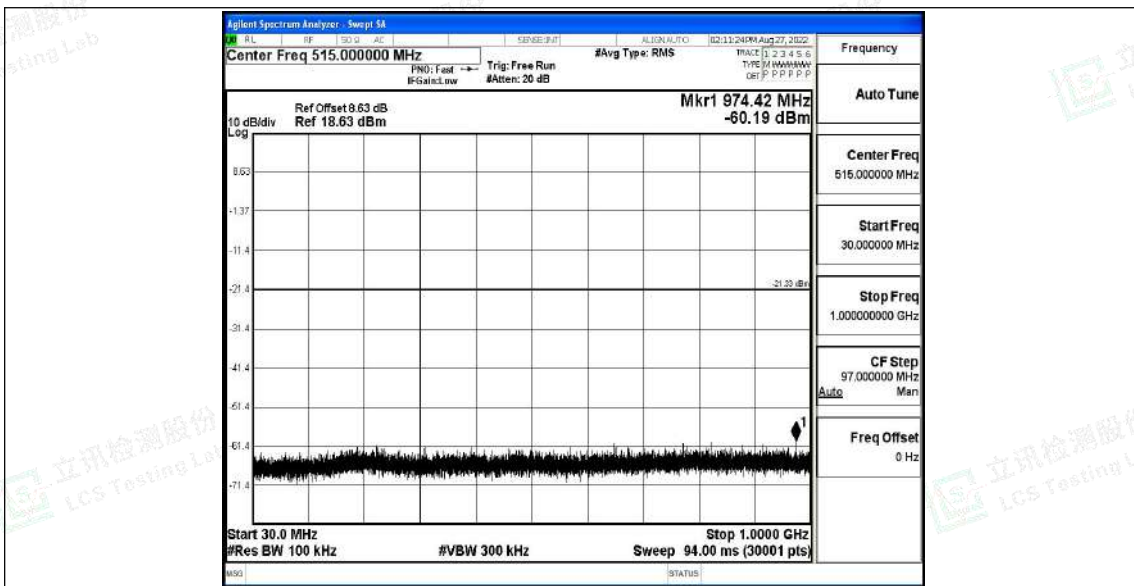


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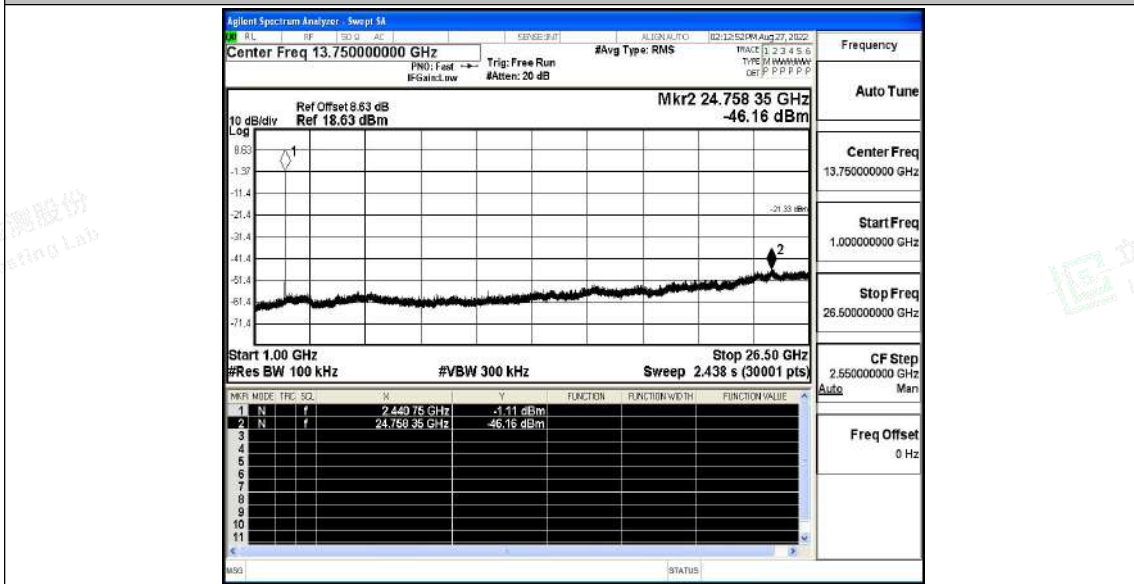


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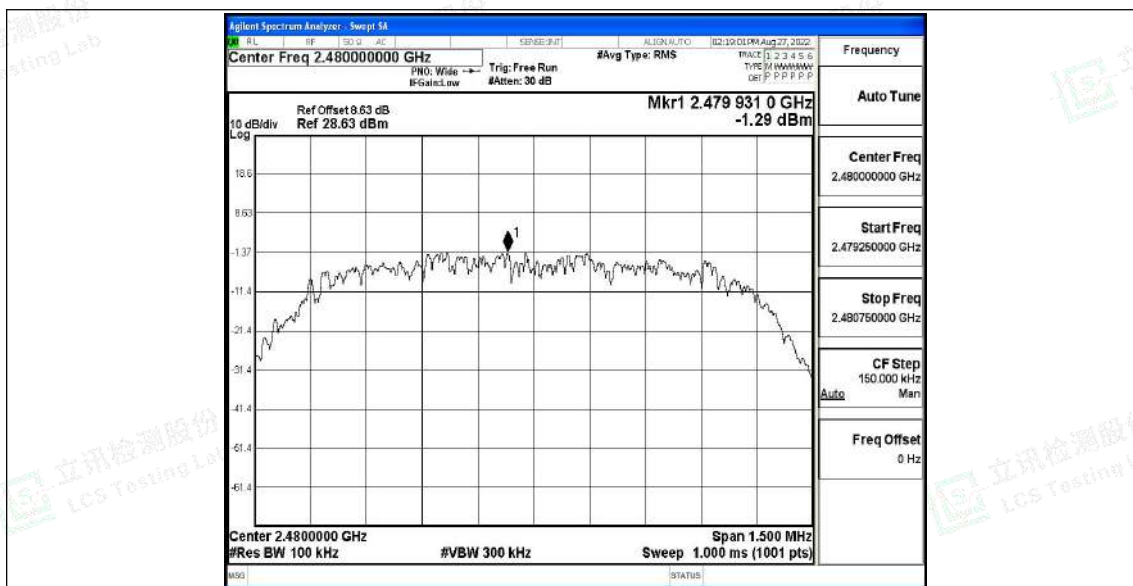


3DH5_Ant1_2441_1000~26500

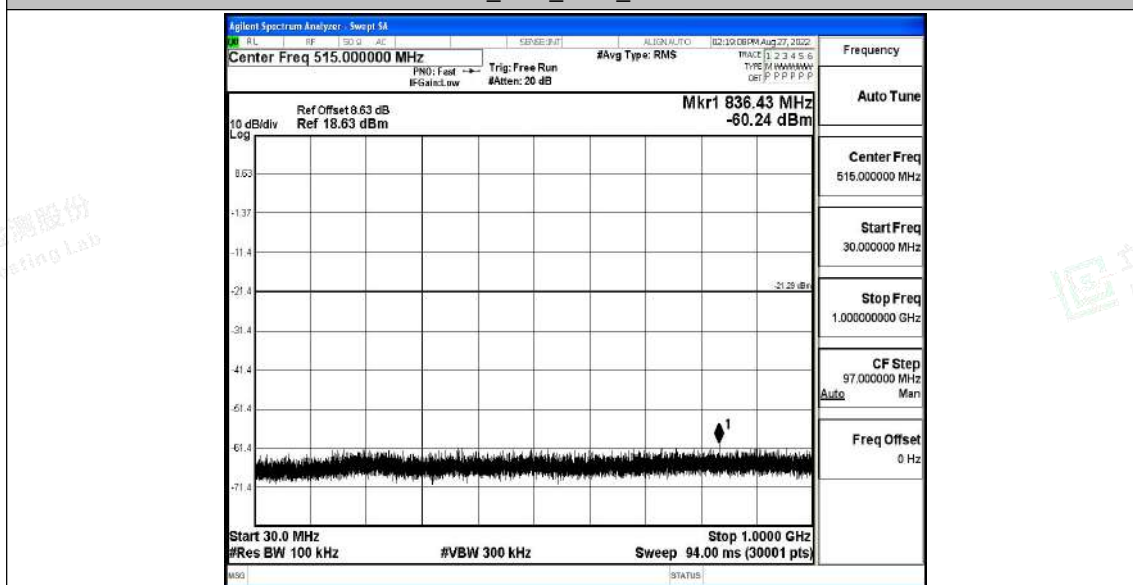


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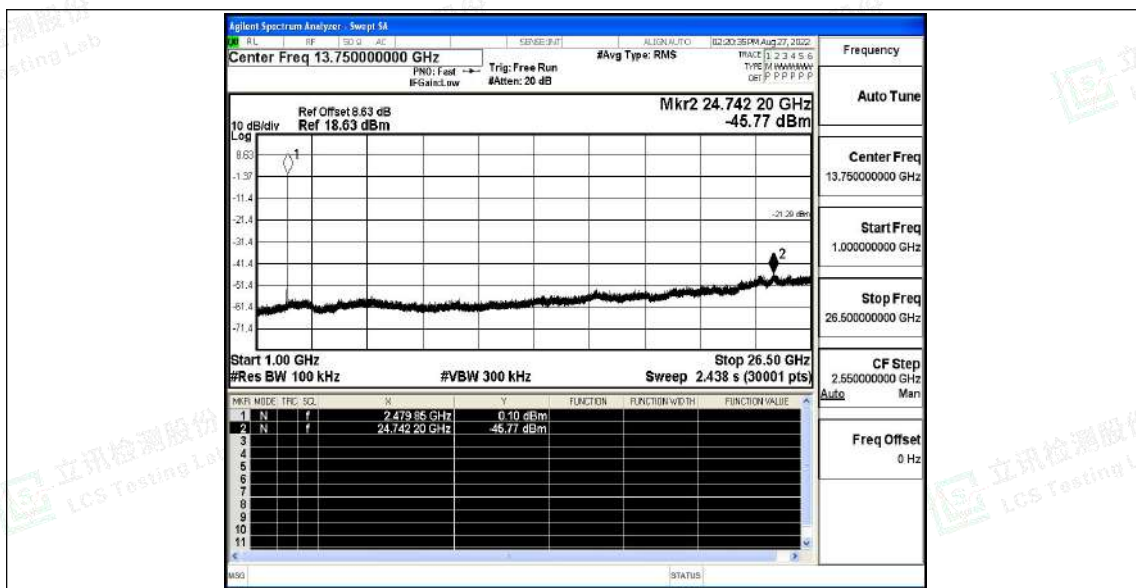


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







A.9 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	-57.93	≤-41.20	37.27	≤54	PASS
				AV	2380.220	-57.47	≤-41.20	37.73	≤54	PASS
				AV	2390.000	-57.58	≤-41.20	37.62	≤54	PASS
				Peak	2310.000	-53.16	≤-21.20	42.04	≤74	PASS
				Peak	2379.380	-47.95	≤-21.20	47.25	≤74	PASS
				Peak	2390.000	-54.07	≤-21.20	41.13	≤74	PASS
		High	2480	AV	2483.500	-53.56	≤-41.20	41.64	≤54	PASS
				AV	2483.520	-53.56	≤-41.20	41.64	≤54	PASS
				AV	2500.000	-57.03	≤-41.20	38.17	≤54	PASS
				Peak	2483.500	-51.68	≤-21.20	43.52	≤74	PASS
				Peak	2496.960	-48.1	≤-21.20	47.10	≤74	PASS
				Peak	2500.000	-51.84	≤-21.20	43.36	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.04	≤-41.20	37.16	≤54	PASS
				AV	2386.520	-57.41	≤-41.20	37.79	≤54	PASS
				AV	2390.000	-57.56	≤-41.20	37.64	≤54	PASS
				Peak	2310.000	-52.94	≤-21.20	42.26	≤74	PASS
				Peak	2344.940	-48.05	≤-21.20	47.15	≤74	PASS
				Peak	2390.000	-53.39	≤-21.20	41.81	≤74	PASS
		High	2480	AV	2483.500	-53.19	≤-41.20	42.01	≤54	PASS
				AV	2483.520	-53.19	≤-41.20	42.01	≤54	PASS
				AV	2500.000	-57.1	≤-41.20	38.10	≤54	PASS
				Peak	2483.500	-50.35	≤-21.20	44.85	≤74	PASS
				Peak	2484.480	-46.81	≤-21.20	48.39	≤74	PASS
				Peak	2500.000	-48.45	≤-21.20	46.75	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-58.15	≤-41.20	37.05	≤54	PASS
				AV	2388.830	-57.5	≤-41.20	37.70	≤54	PASS
				AV	2390.000	-57.59	≤-41.20	37.61	≤54	PASS
				Peak	2310.000	-52.13	≤-21.20	43.07	≤74	PASS
				Peak	2321.525	-48.82	≤-21.20	46.38	≤74	PASS
				Peak	2390.000	-51.39	≤-21.20	43.81	≤74	PASS
		High	2480	AV	2483.500	-53.14	≤-41.20	42.06	≤54	PASS
				AV	2483.520	-53.14	≤-41.20	42.06	≤54	PASS
				AV	2500.000	-57.09	≤-41.20	38.11	≤54	PASS
				Peak	2483.500	-49.96	≤-21.20	45.24	≤74	PASS
				Peak	2495.040	-47.89	≤-21.20	47.31	≤74	PASS



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 Scan code to check authenticity



				Peak	2500.000	-50.56	≤-21.20	44.64	≤74	PASS
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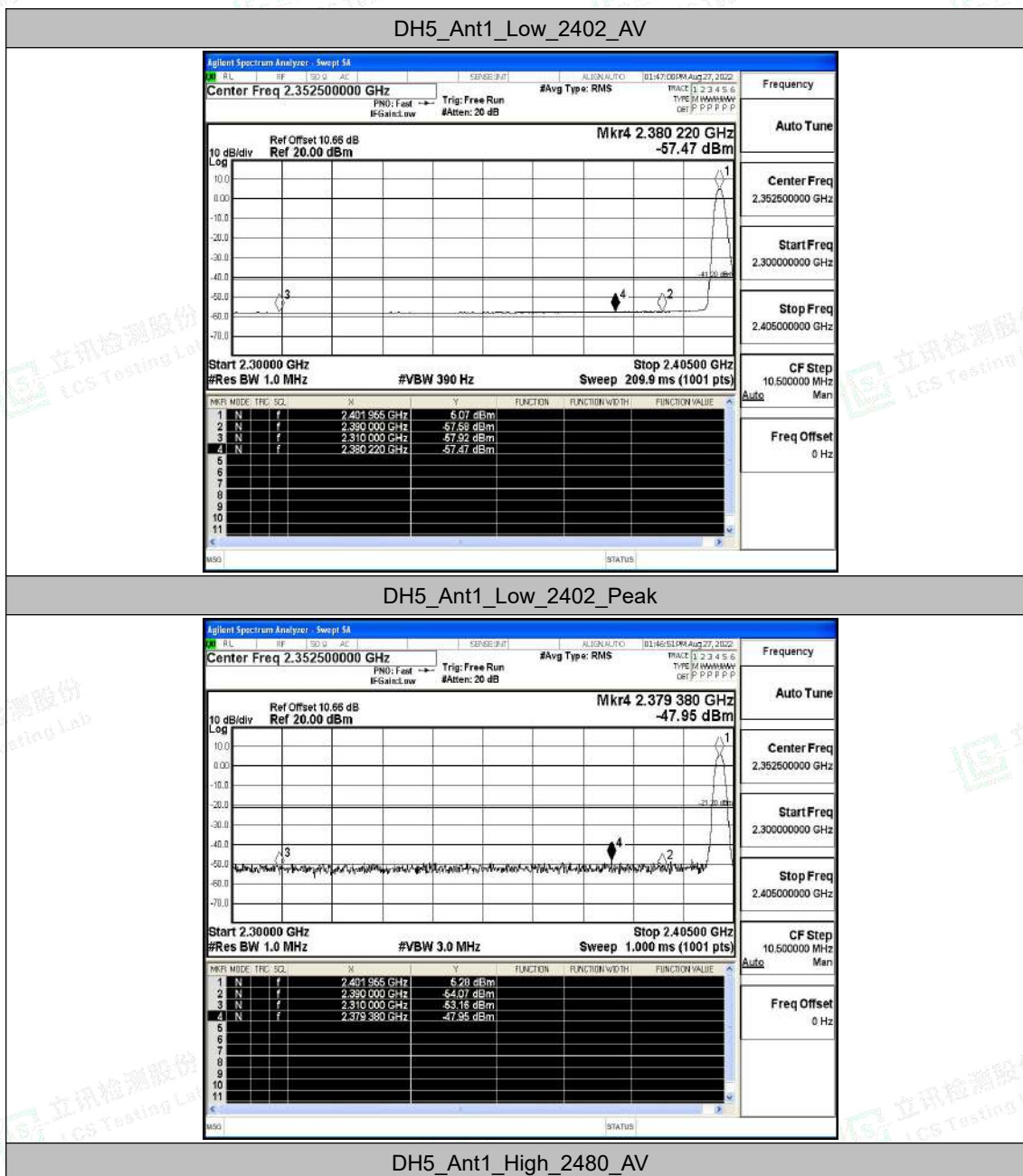
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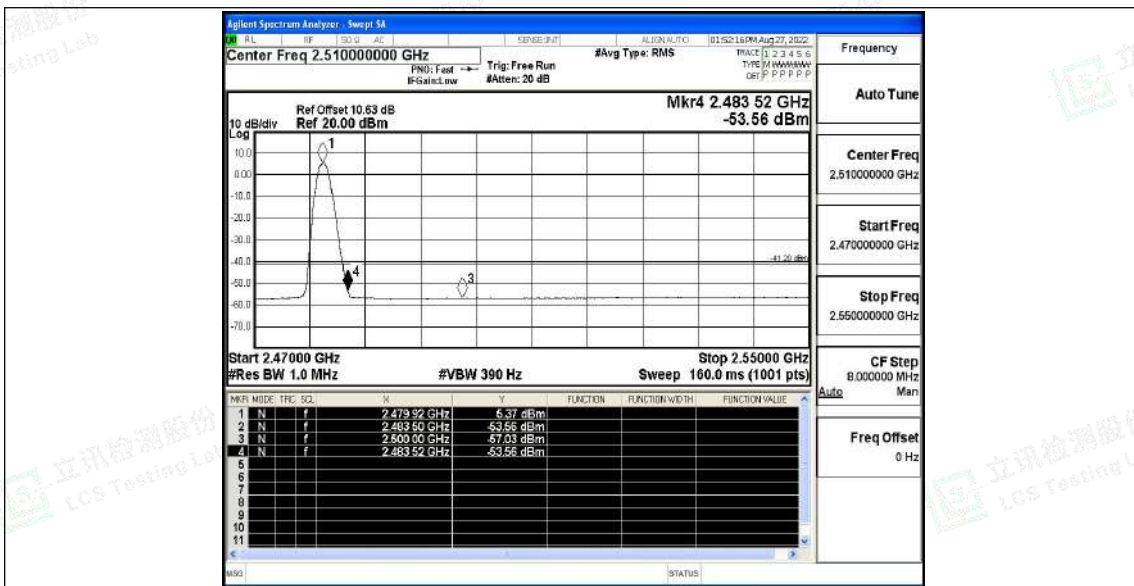
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



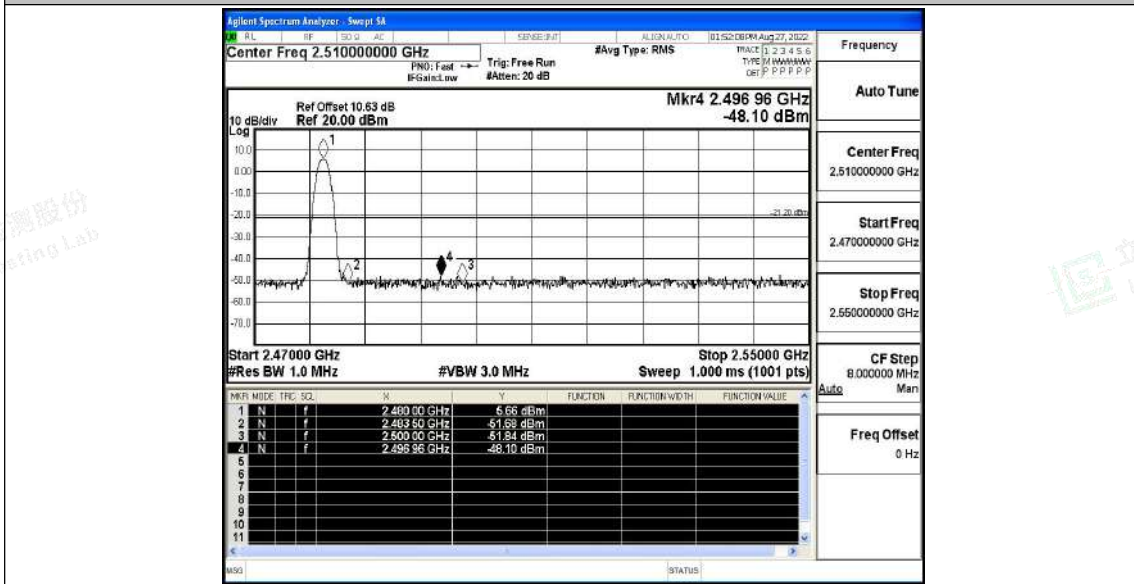


Test Graphs



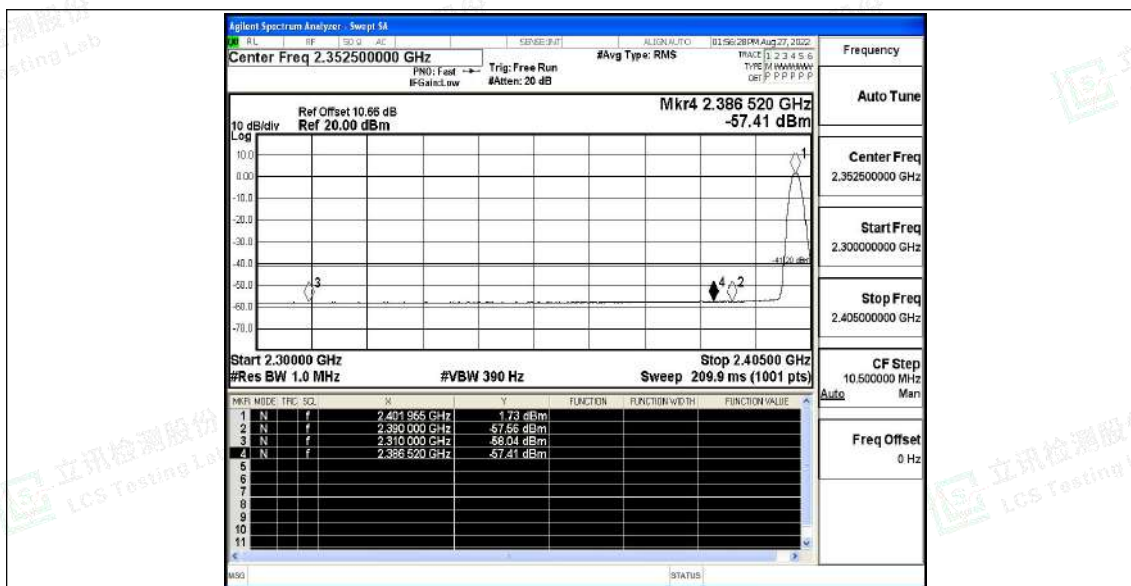


DH5_Ant1_High_2480_Peak

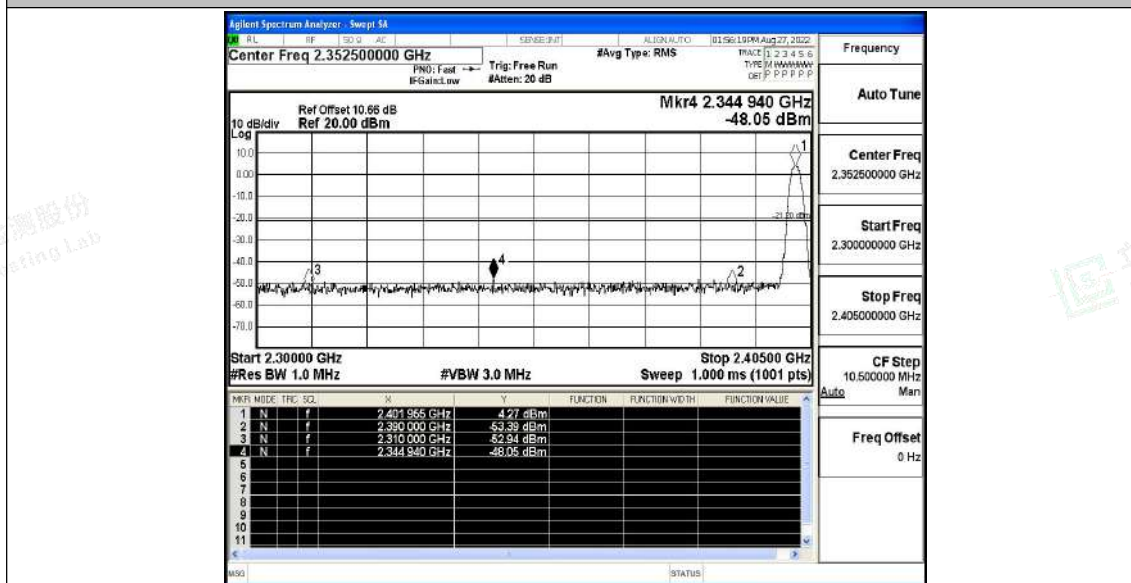


2DH5_Ant1_Low_2402_AV



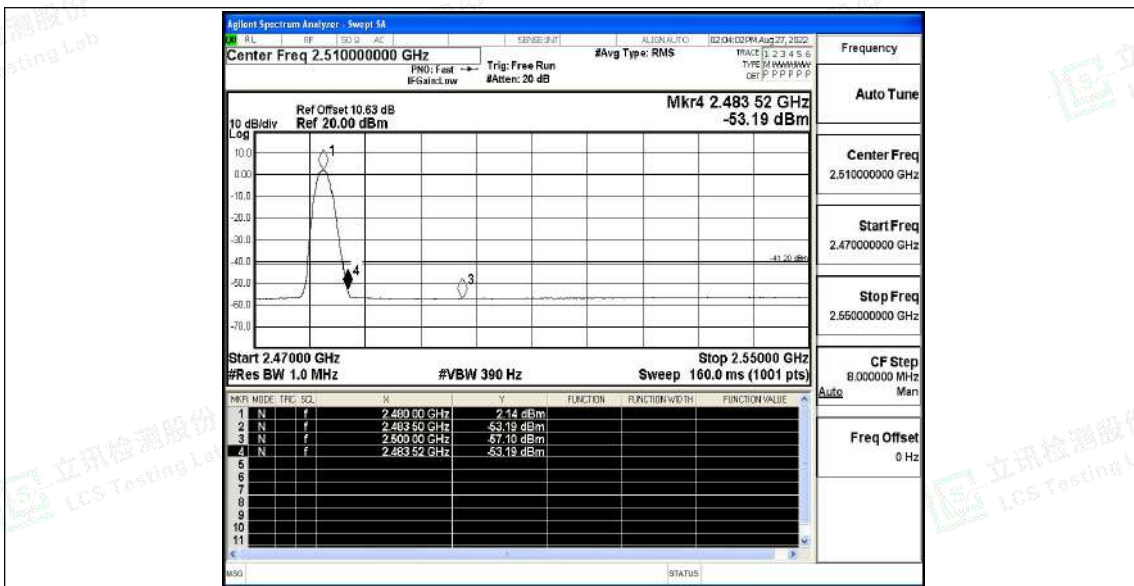


2DH5_Ant1_Low_2402_Peak

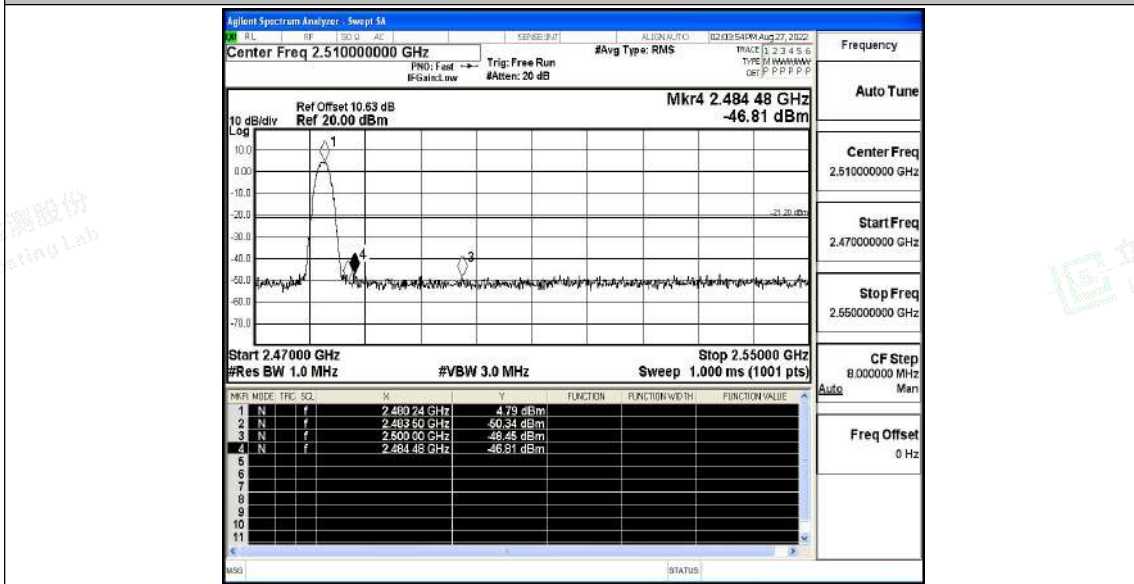


2DH5_Ant1_High_2480_AV



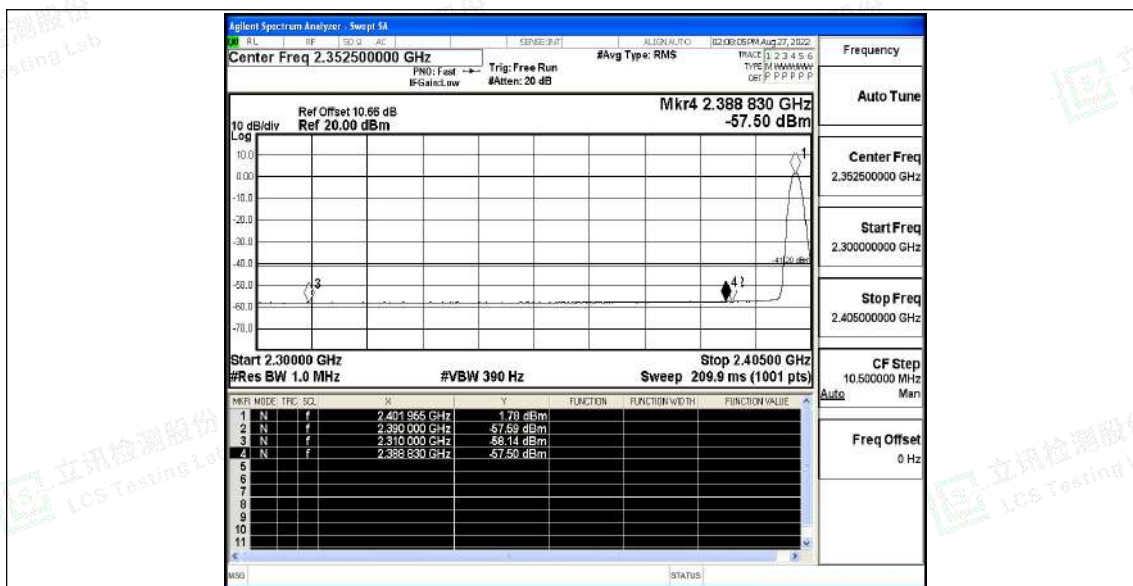


2D H5_Ant1_High_2480_Peak

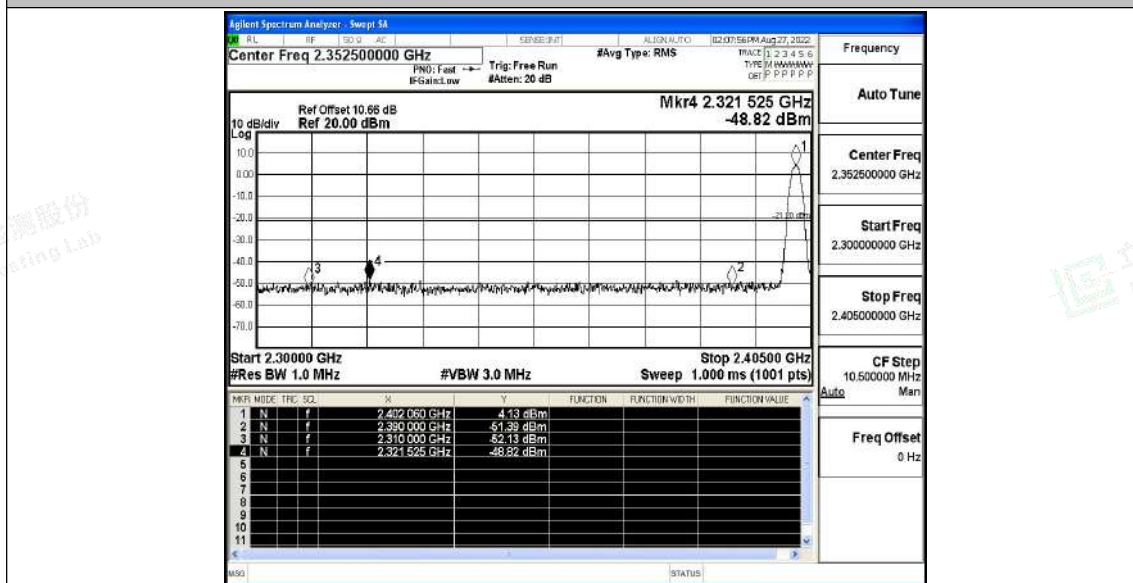


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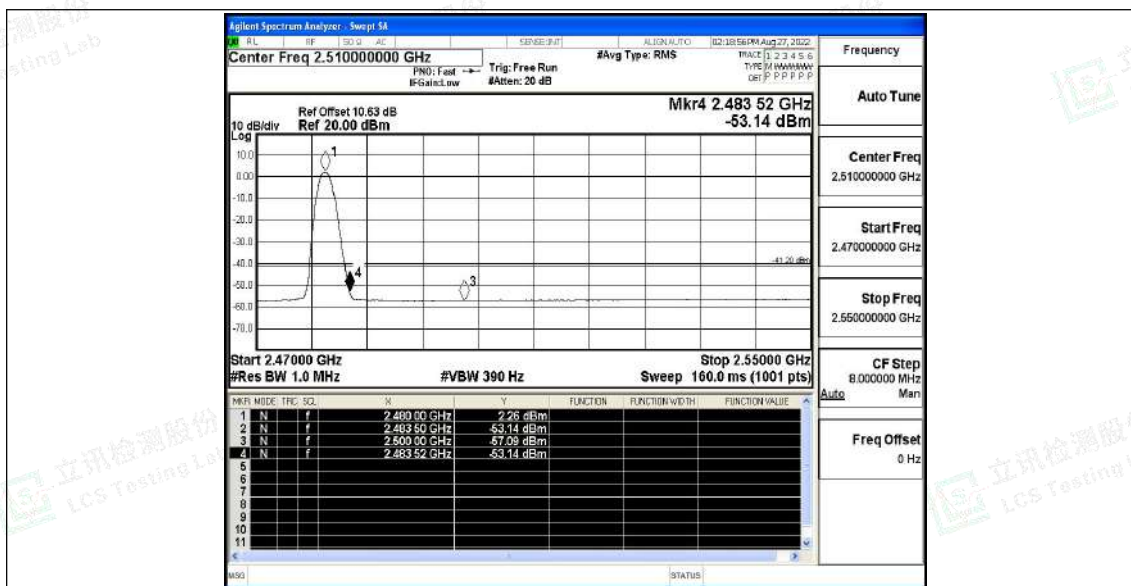


3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV





3DH5_Ant1_High_2480_Peak

