



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth headset

Test Model: SOUNDWAVE A1v2

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

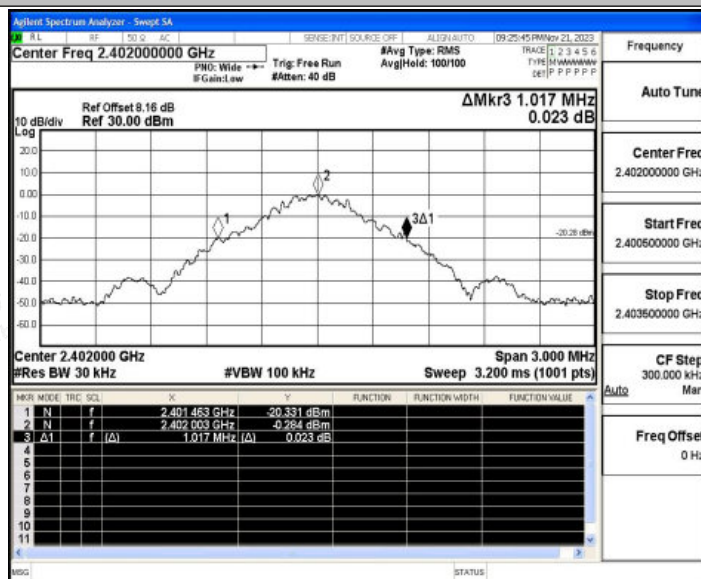
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.017	2401.463	2402.480	---
		2441	0.975	2440.514	2441.489	---
		2480	1.020	2479.457	2480.477	---
2DH5	Ant1	2402	1.296	2401.349	2402.645	---
		2441	1.293	2440.349	2441.642	---
		2480	1.284	2479.358	2480.642	---
3DH5	Ant1	2402	1.296	2401.334	2402.630	---
		2441	1.305	2440.331	2441.636	---
		2480	1.290	2479.334	2480.624	---



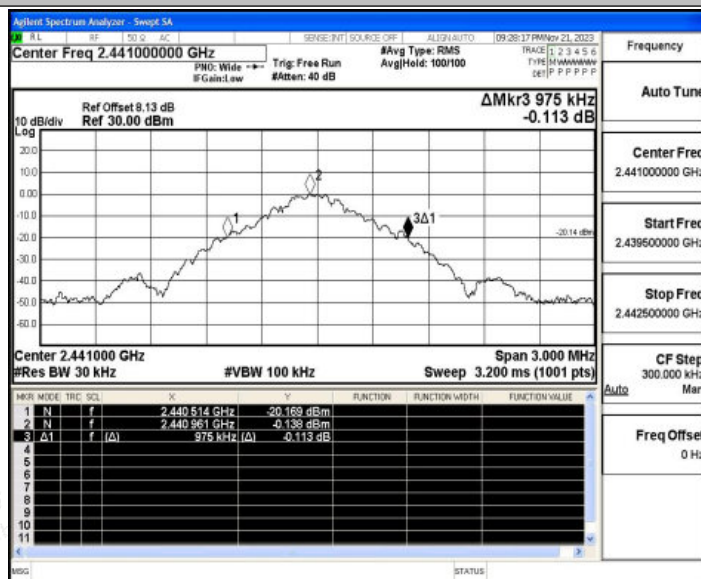


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

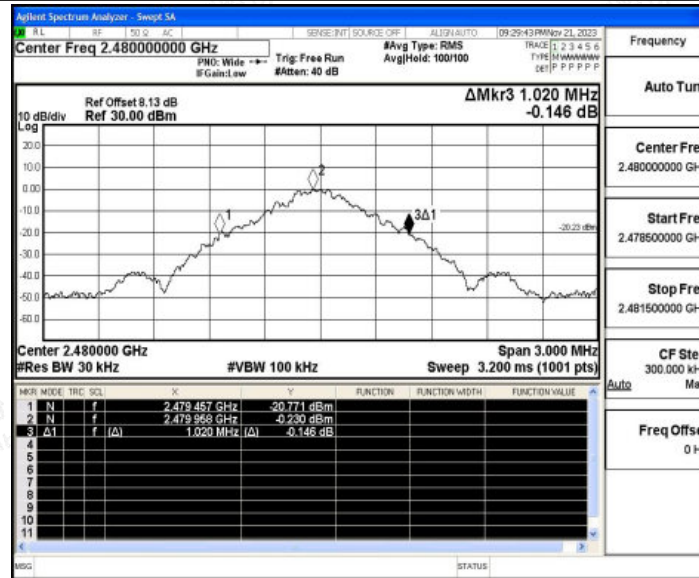


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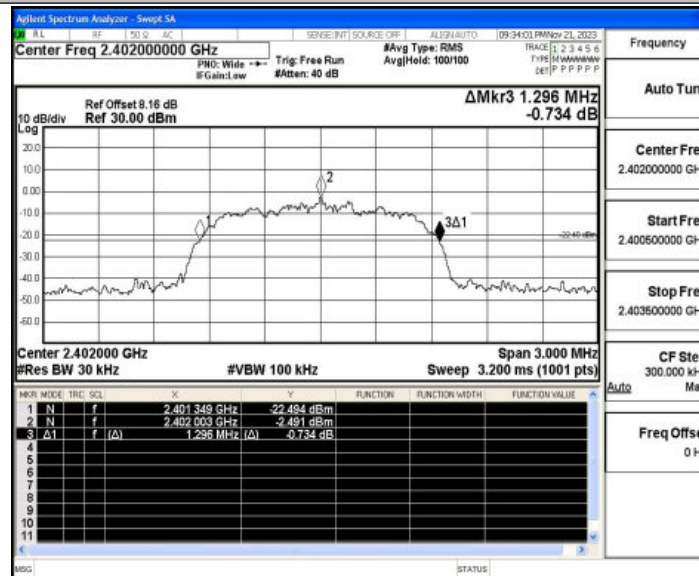
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

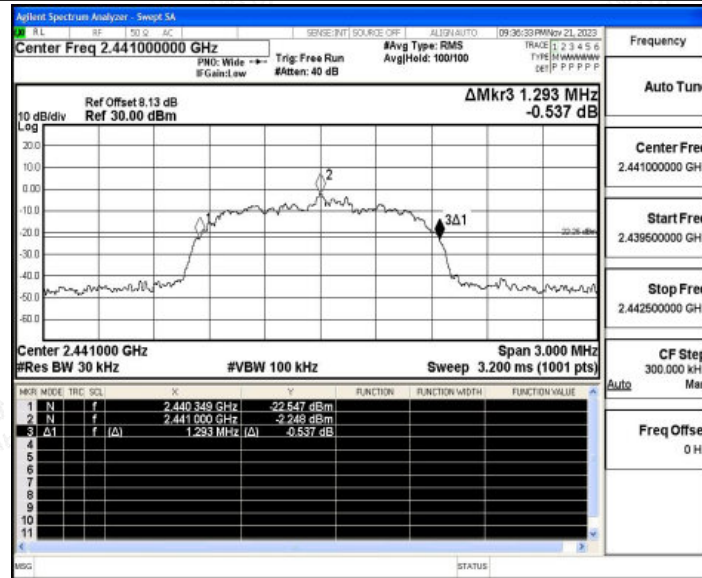


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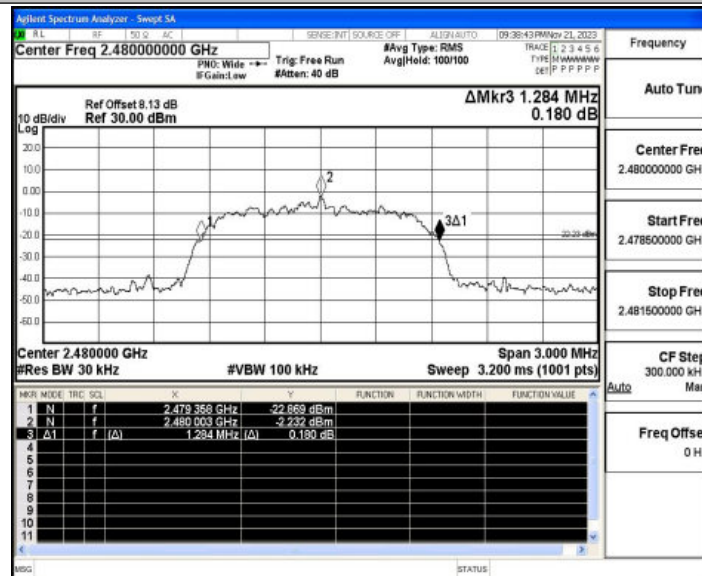
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2DH5_Ant1_2480



3DH5_Ant1_2402

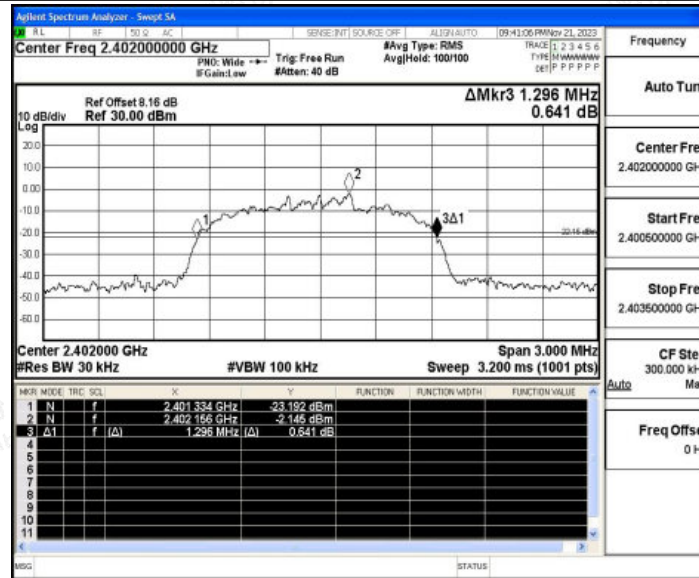


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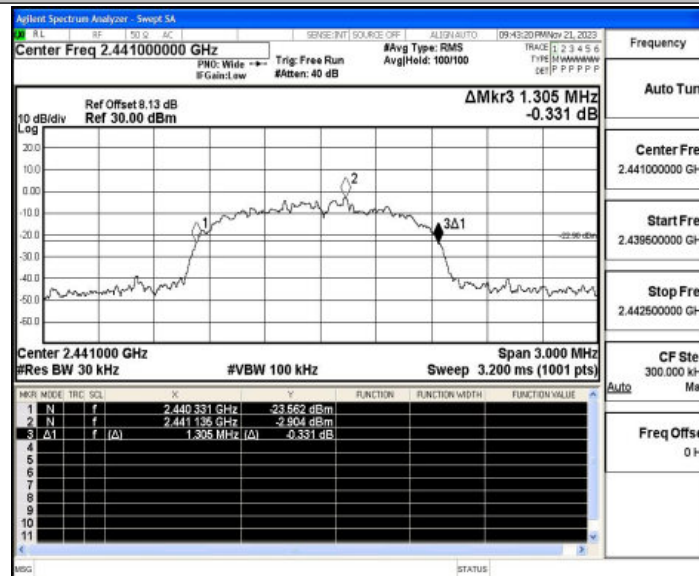
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3DH5_Ant1_2441



3DH5_Ant1_2480

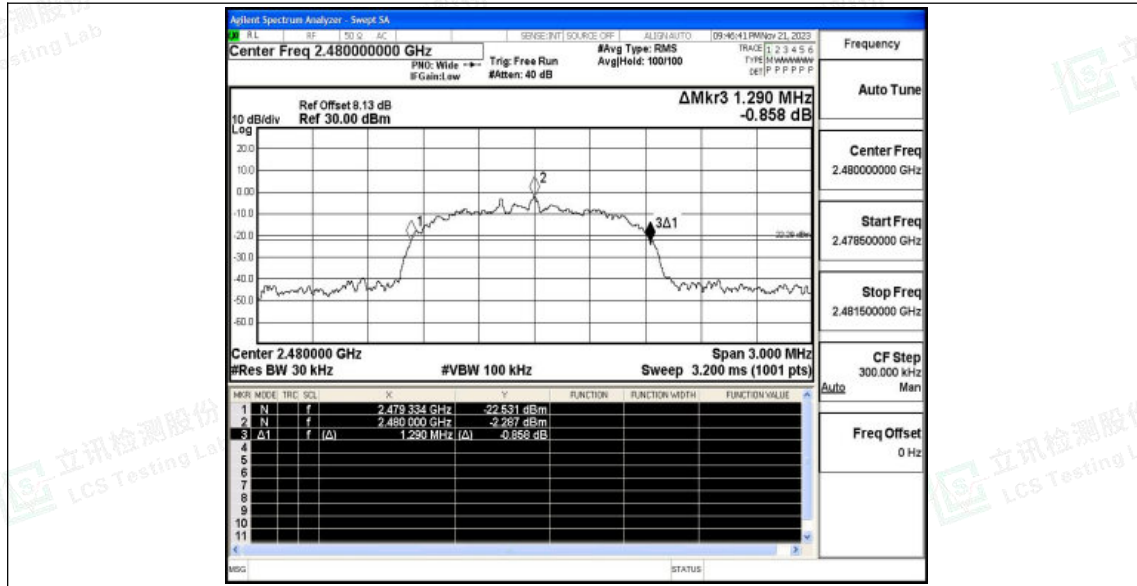


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A.2 Maximum conducted output power

Test Result

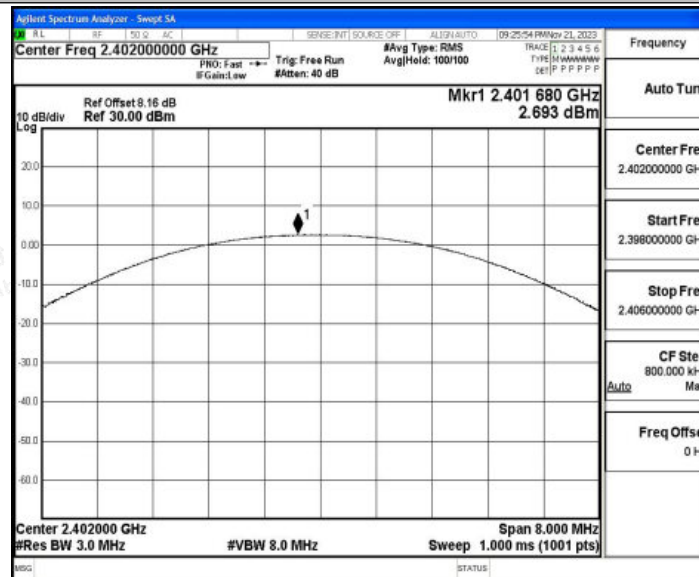
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.69	≤21	PASS
		2441	2.77	≤21	PASS
		2480	2.77	≤21	PASS
2DH5	Ant1	2402	2.27	≤21	PASS
		2441	2.54	≤21	PASS
		2480	2.56	≤21	PASS
3DH5	Ant1	2402	2.43	≤21	PASS
		2441	2.73	≤21	PASS
		2480	2.7	≤21	PASS



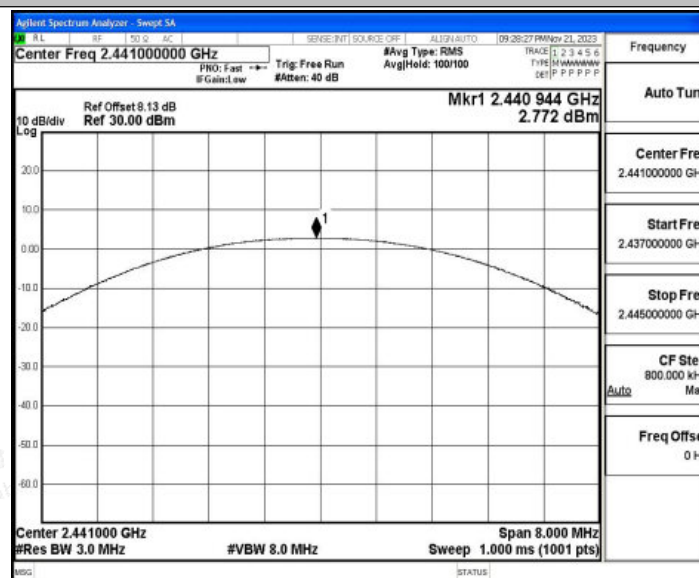


Test Graphs

DH5_Ant1_2402

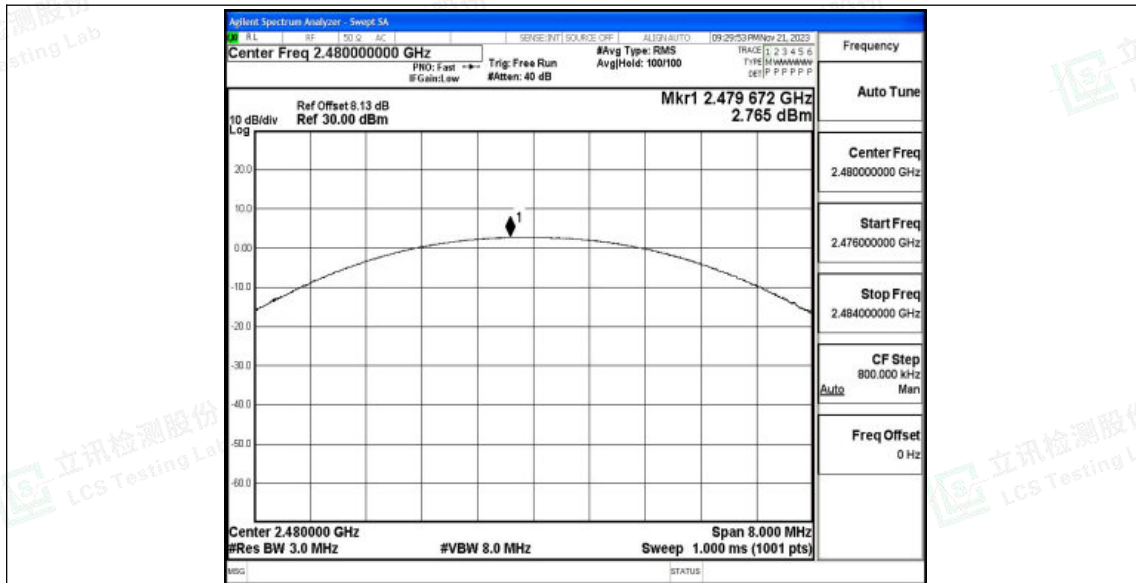


DH5_Ant1_2441

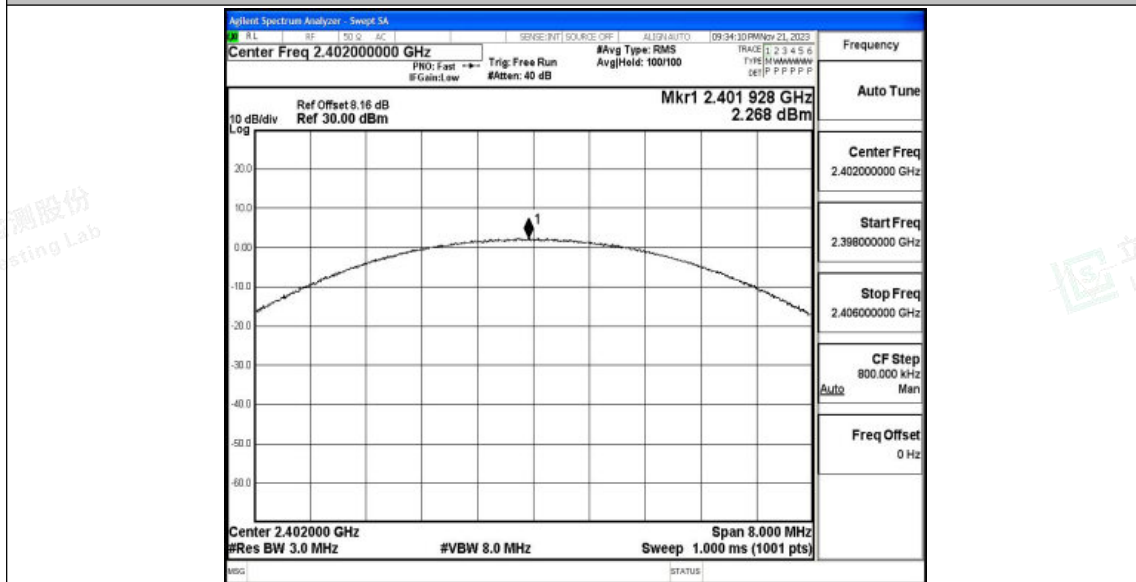


DH5_Ant1_2480



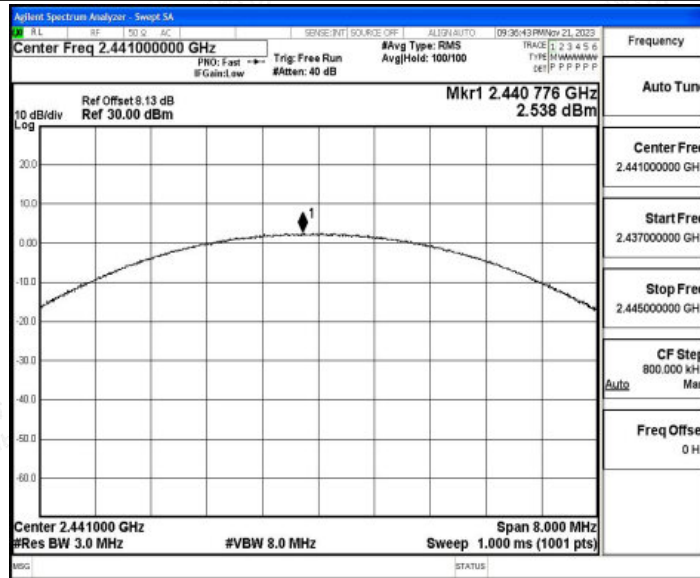


2DH5_Ant1_2402

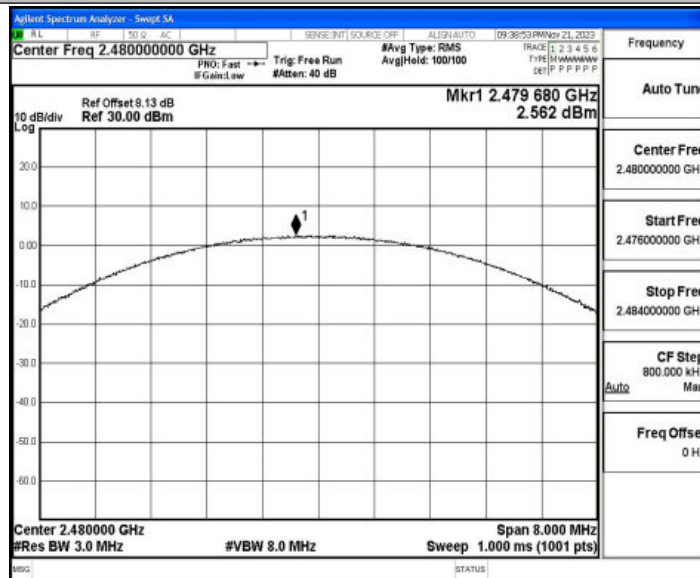


2DH5_Ant1_2441



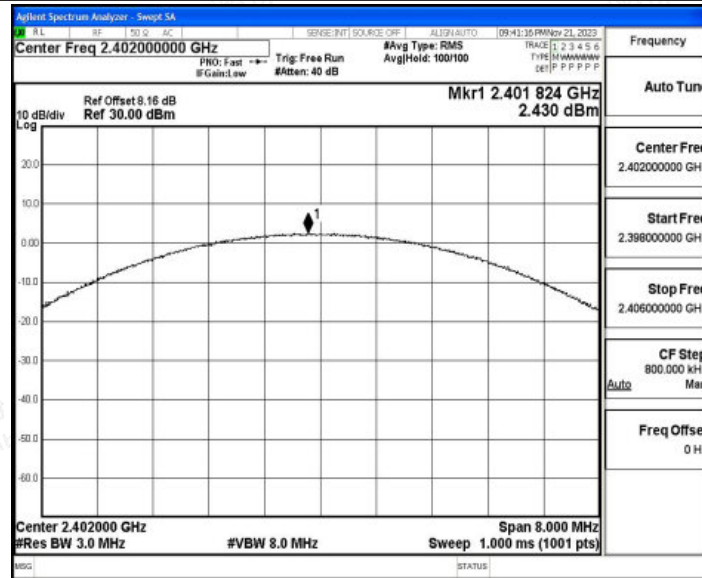


2DH5_Ant1_2480

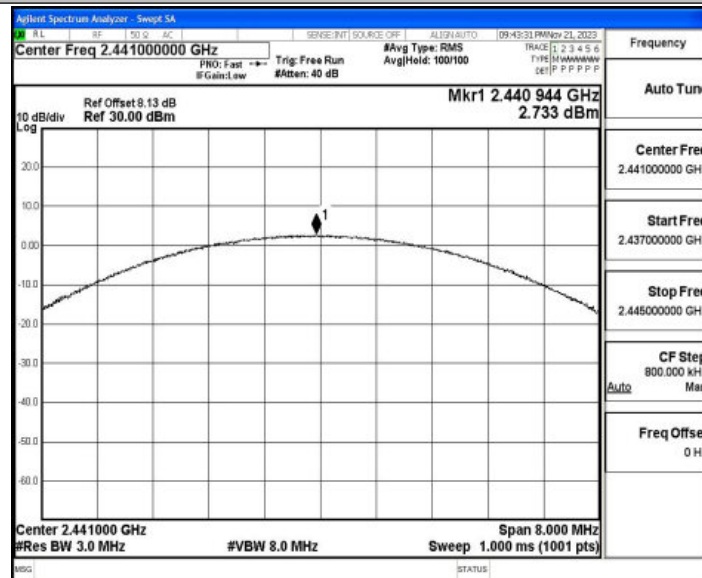


3DH5_Ant1_2402



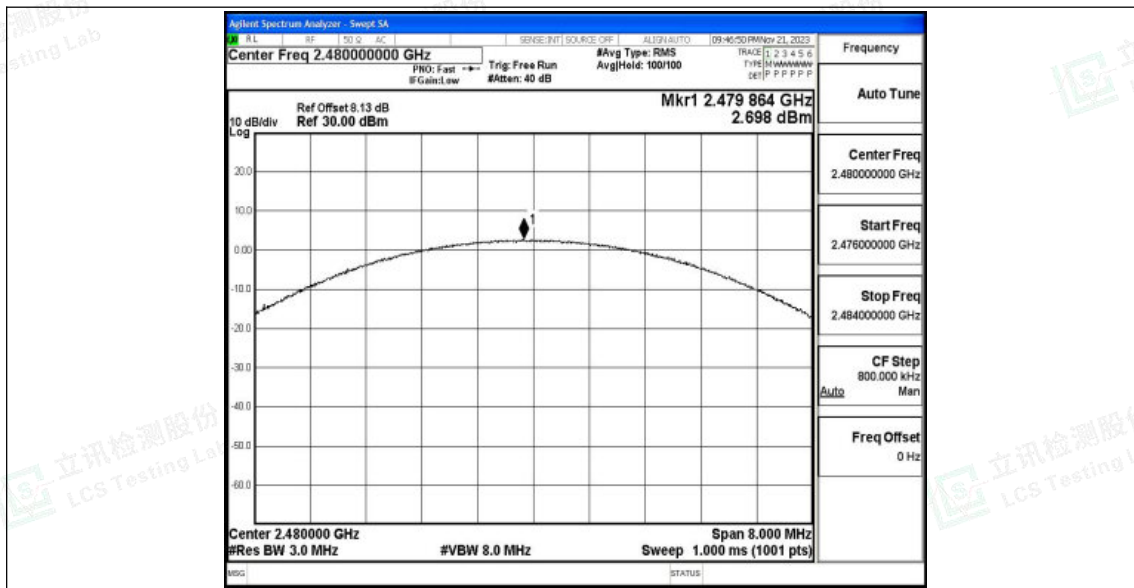


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.680	PASS
2DH5	Ant1	Hop	0.888	≥ 0.864	PASS
3DH5	Ant1	Hop	0.89	≥ 0.870	PASS





Test Graphs

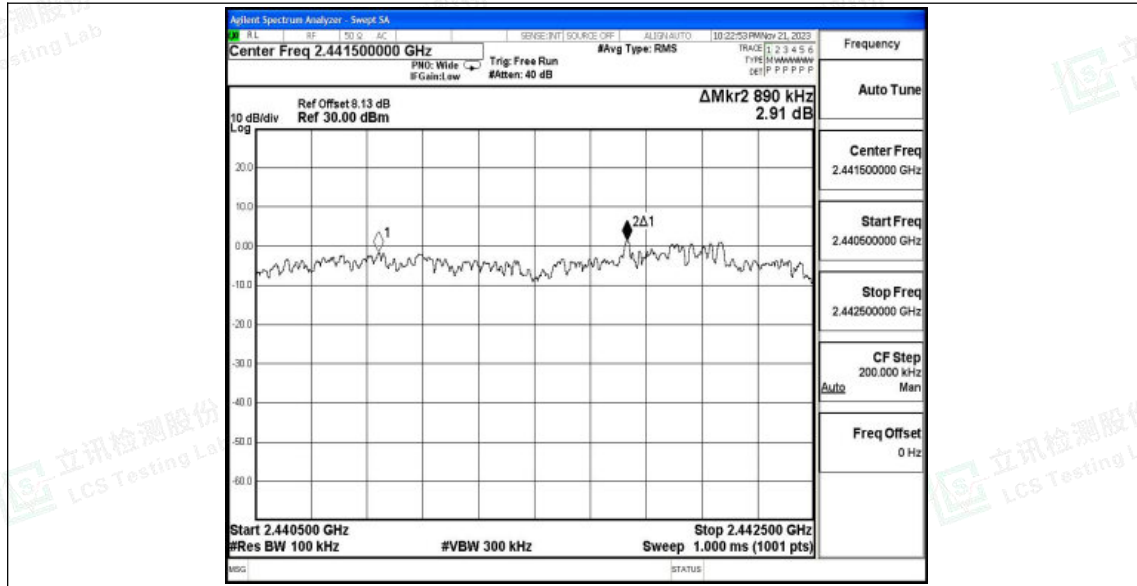


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A.4 Time of occupancy

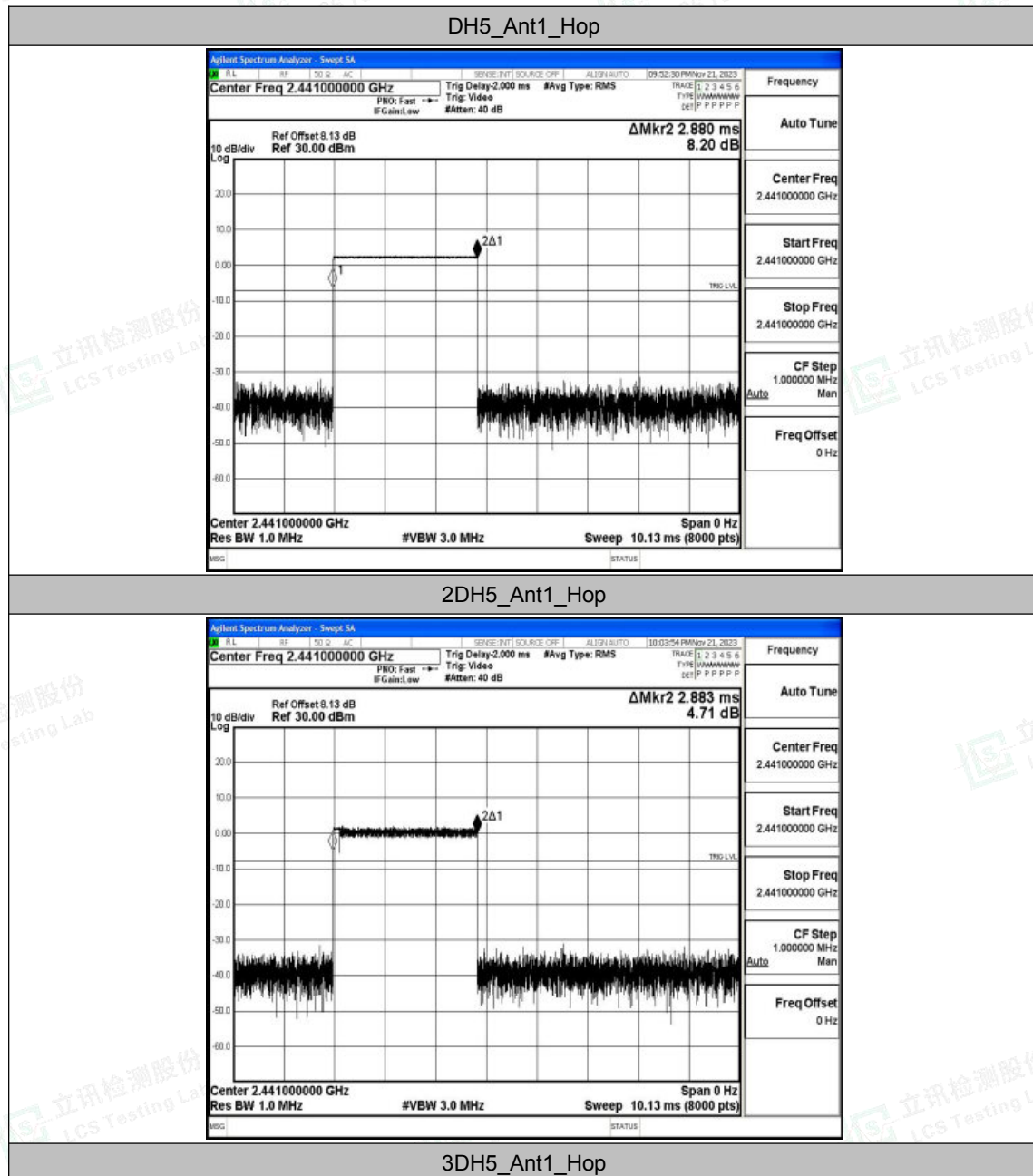
Test Result

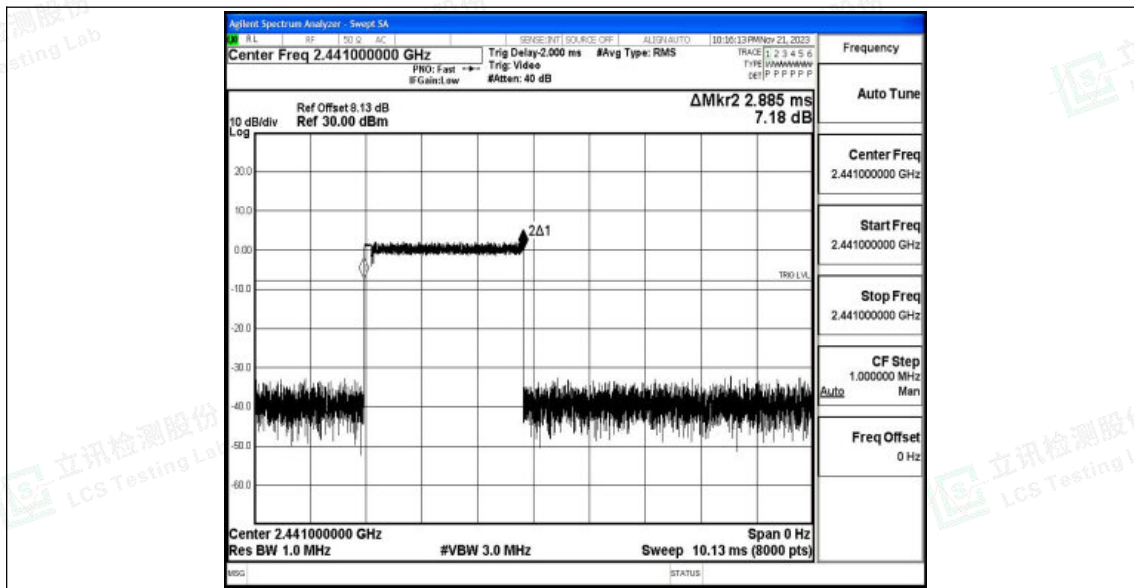
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

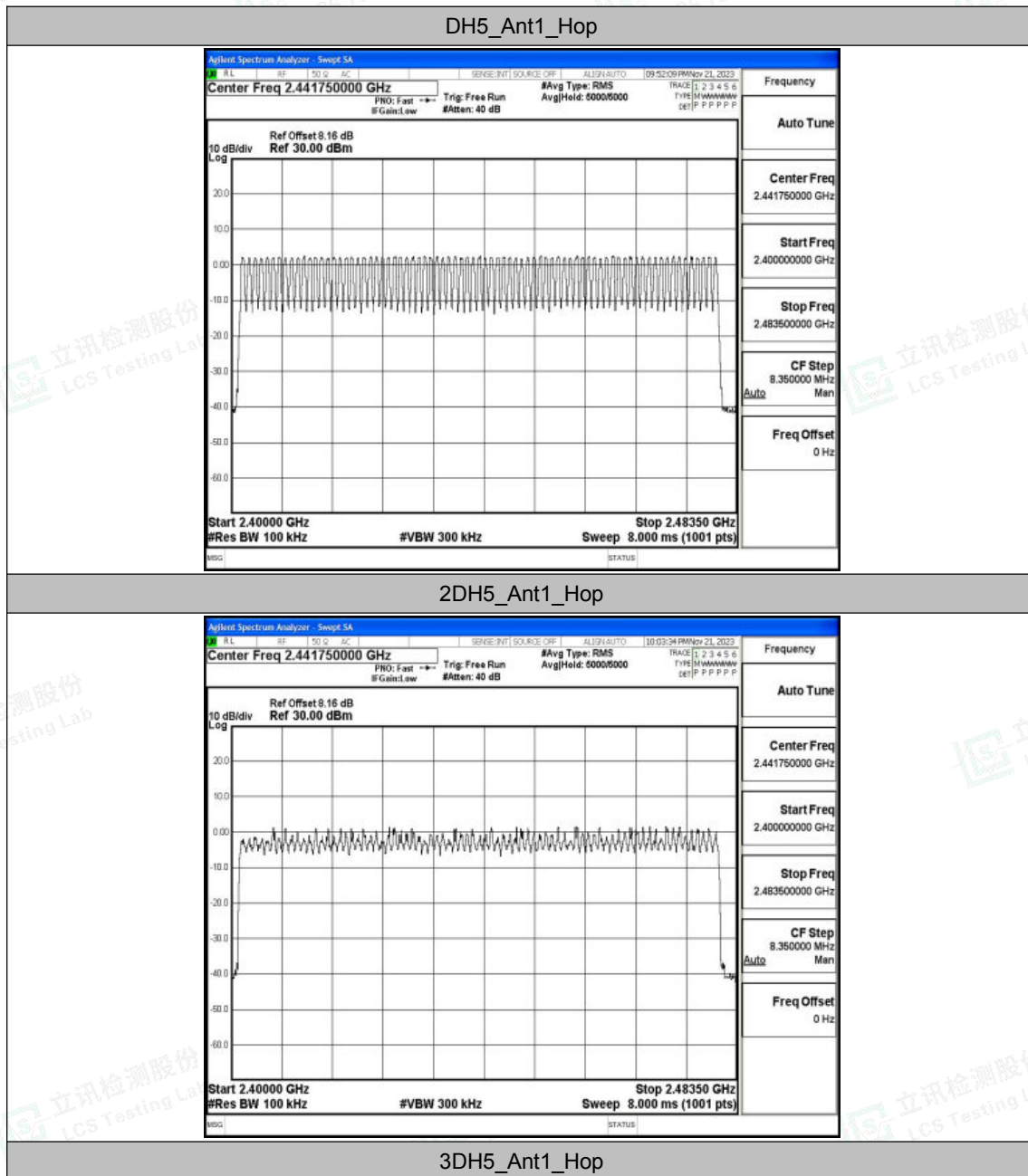
Test Result

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

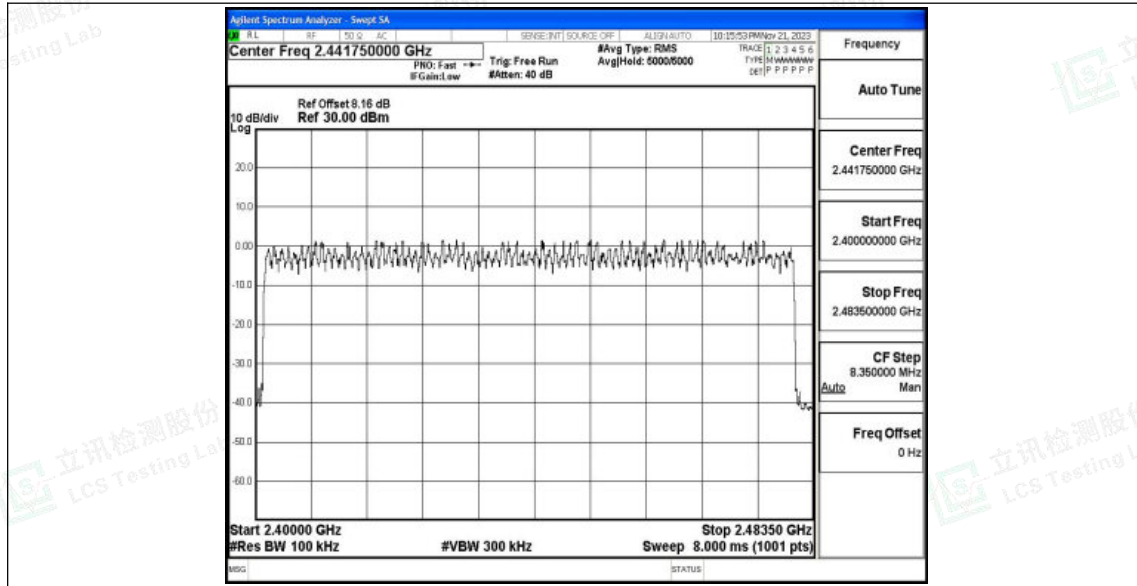


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A.6 Band edge measurements

Test Result

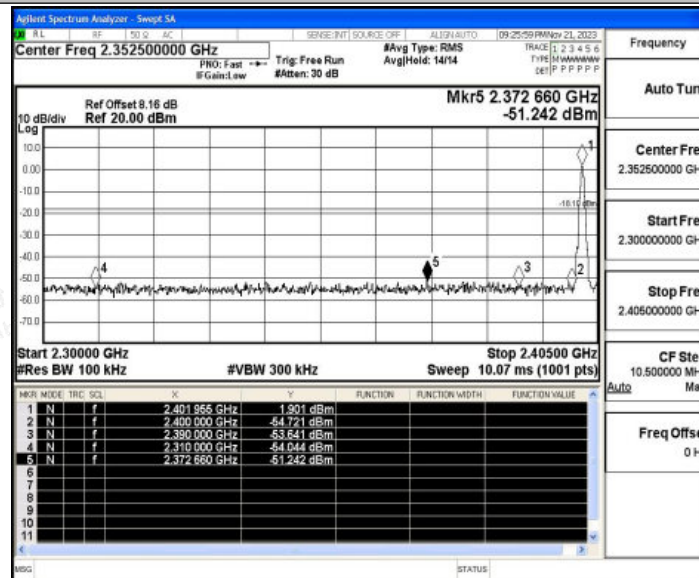
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.90	-51.24	≤ -18.1	PASS
		High	2480	1.29	-50.56	≤ -18.71	PASS
		Low	Hop_2402	1.49	-50.12	≤ -18.51	PASS
		High	Hop_2480	2.16	-48.73	≤ -17.84	PASS
2DH5	Ant1	Low	2402	-2.94	-51.38	≤ -22.94	PASS
		High	2480	0.27	-50.31	≤ -19.73	PASS
		Low	Hop_2402	-1.35	-50.38	≤ -21.35	PASS
		High	Hop_2480	0.85	-49.12	≤ -19.15	PASS
3DH5	Ant1	Low	2402	-1.90	-51.69	≤ -21.9	PASS
		High	2480	-1.53	-50.99	≤ -21.53	PASS
		Low	Hop_2402	-3.22	-50.04	≤ -23.22	PASS
		High	Hop_2480	1.30	-48.08	≤ -18.7	PASS



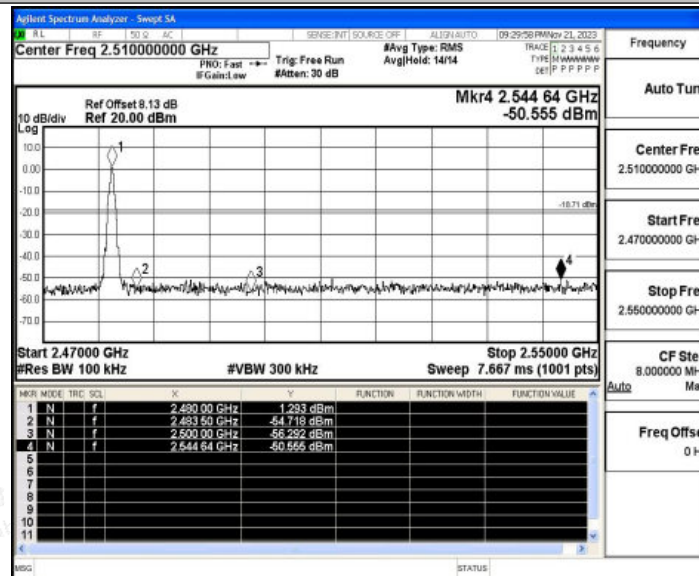


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

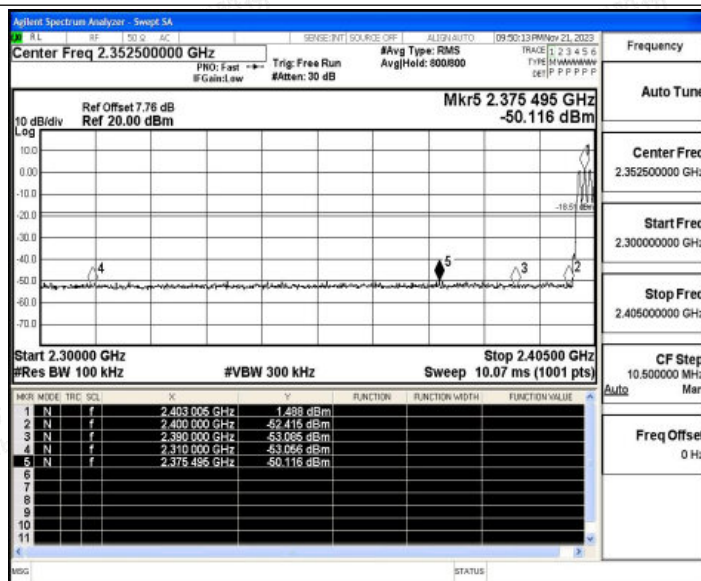


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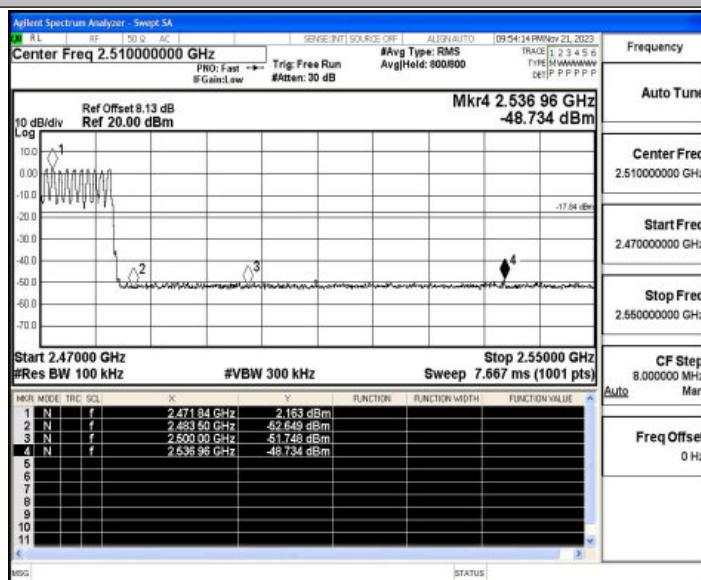
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

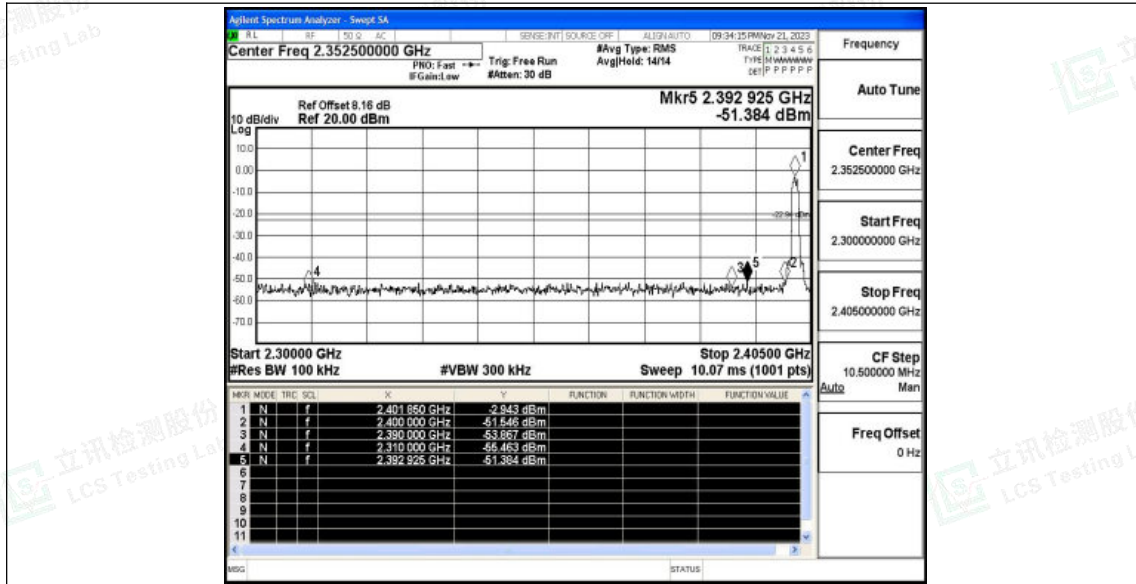


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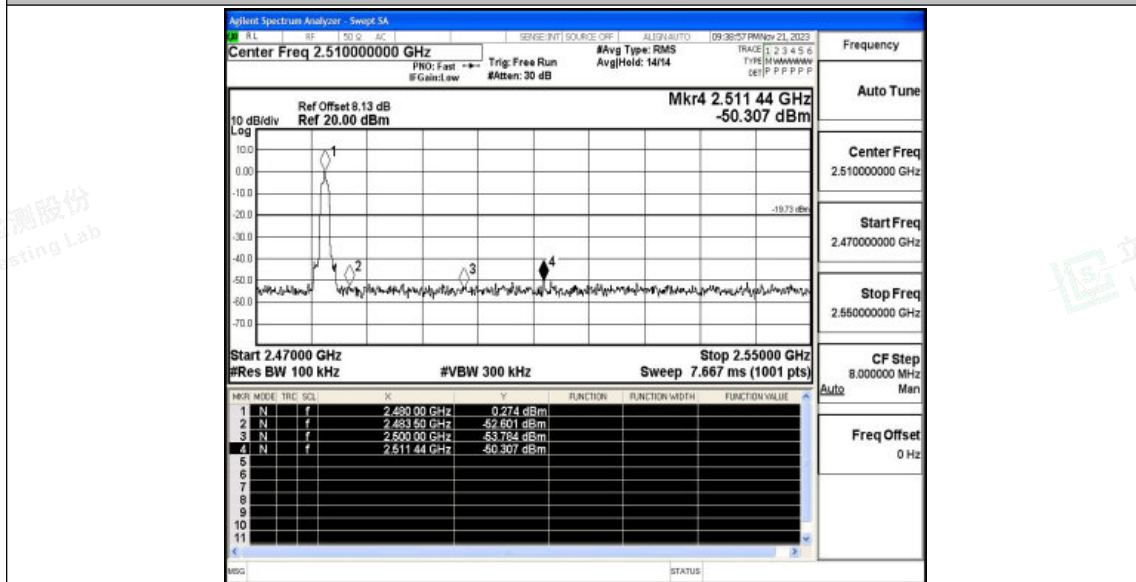
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

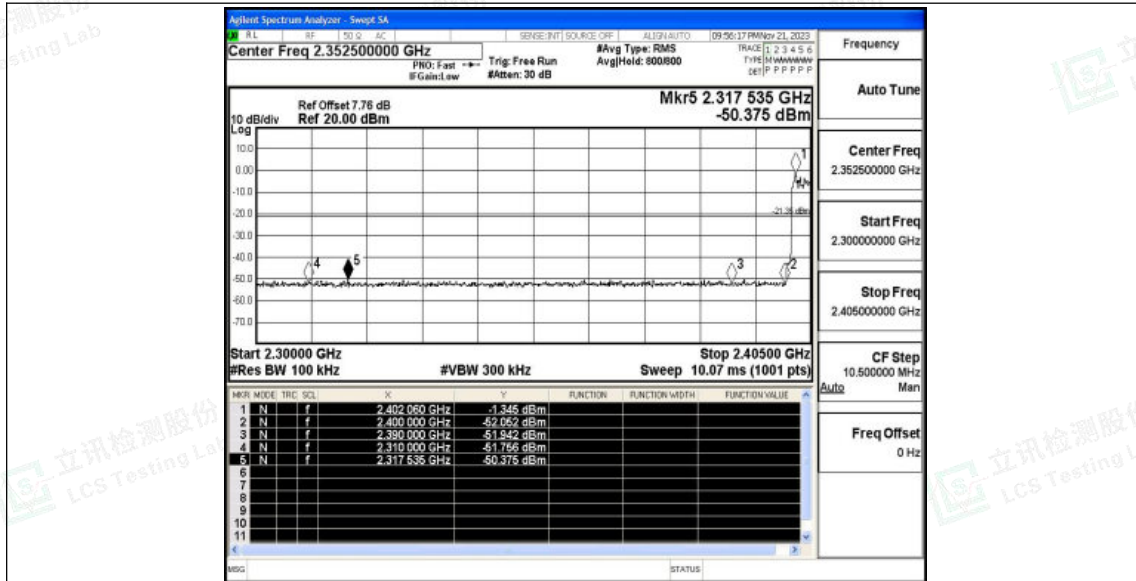


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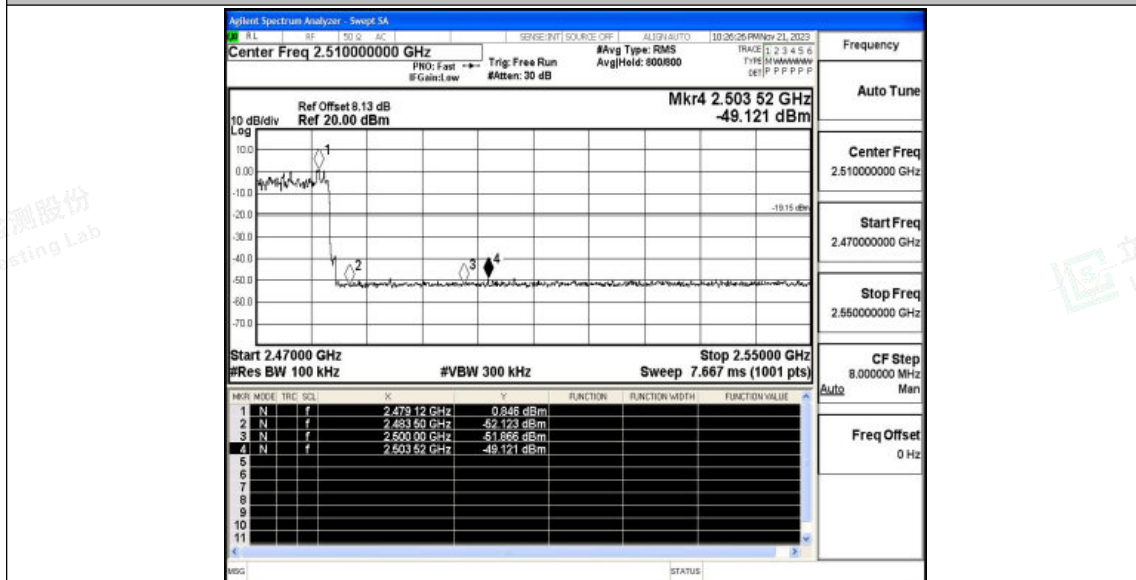
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

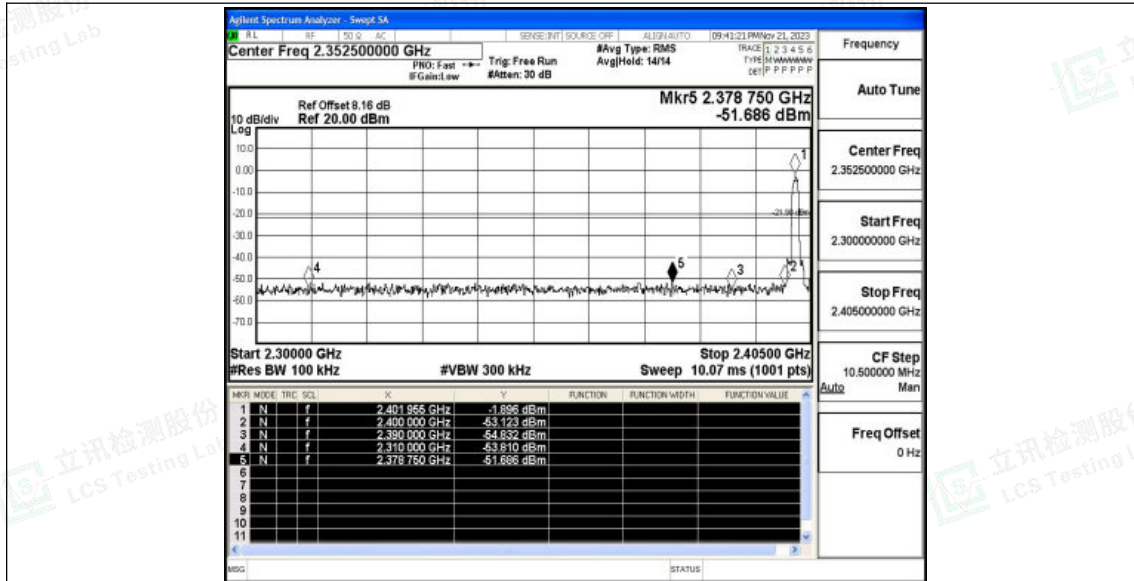


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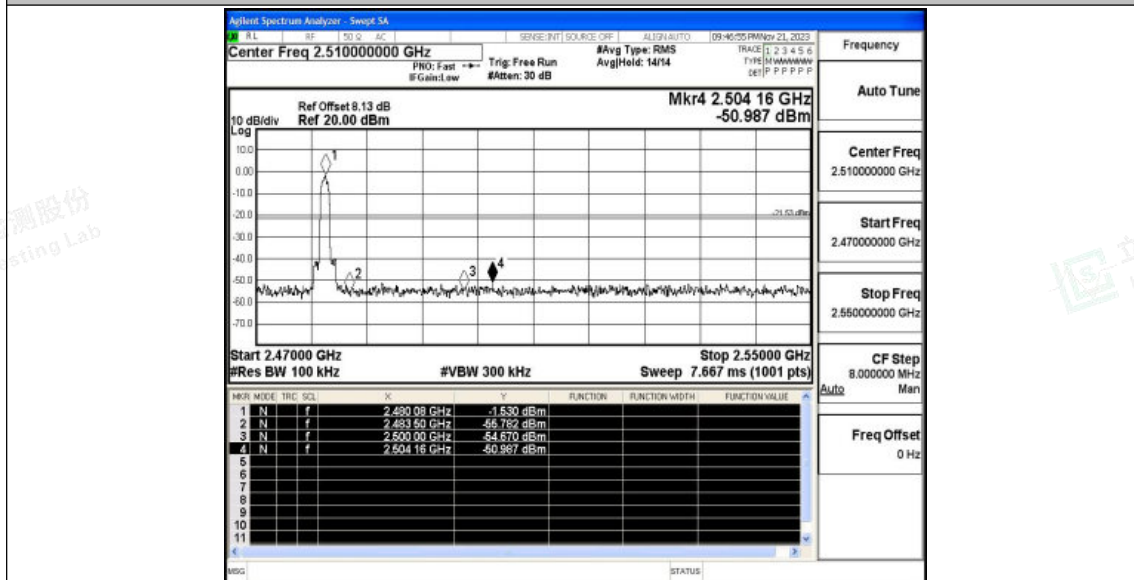
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

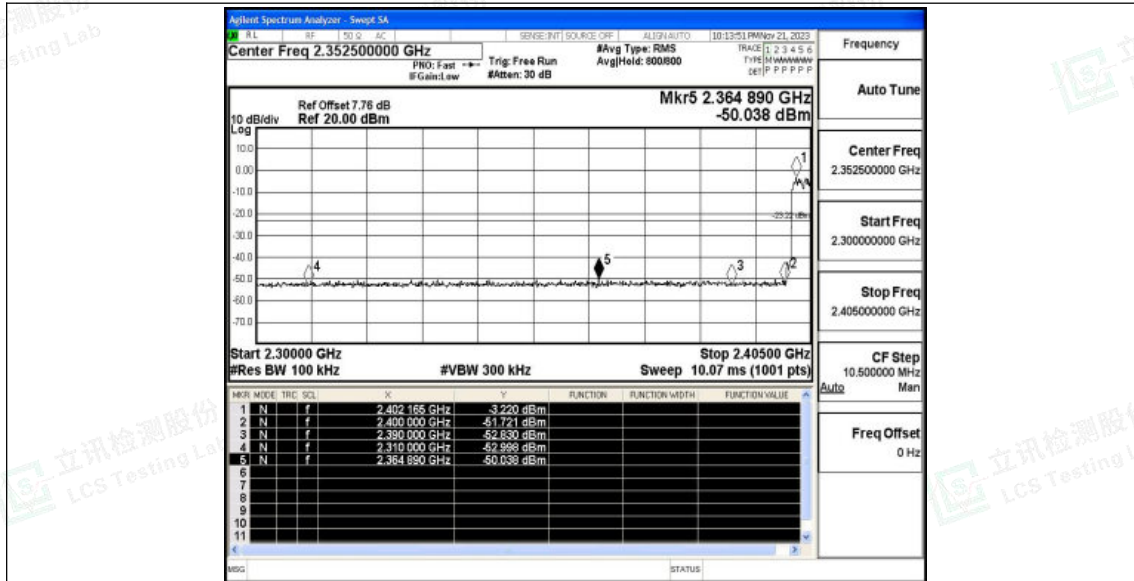


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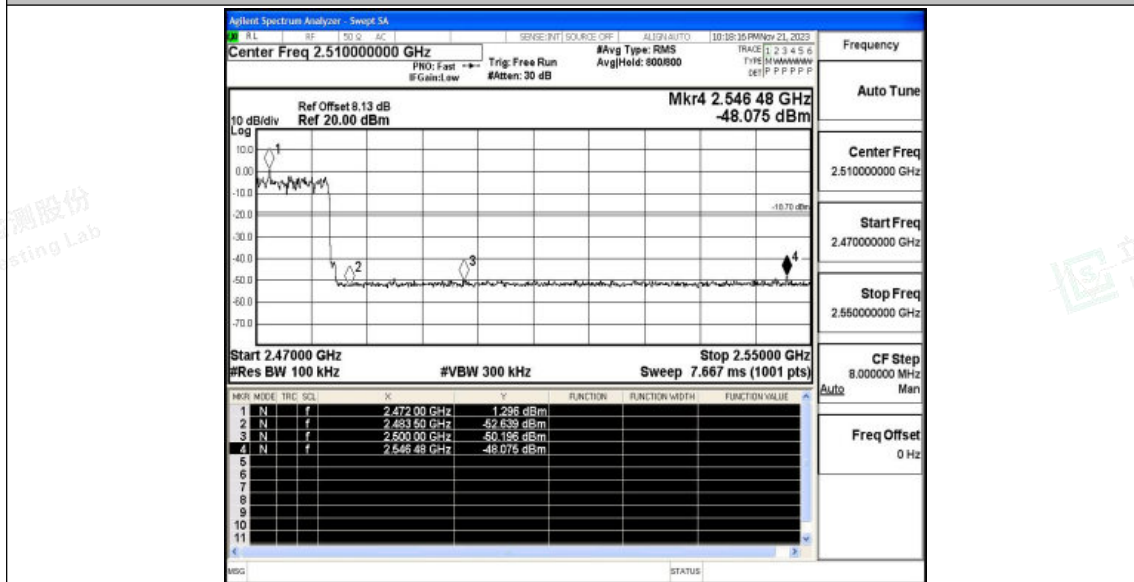
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-61.77	≤-18.46	PASS
			1000~26500	1.54	-49.11	≤-18.46	PASS
		2441	Reference	2.17	2.17	---	PASS
			30~1000	2.17	-61.21	≤-17.83	PASS
			1000~26500	2.17	-49.53	≤-17.83	PASS
		2480	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-61.76	≤-18.24	PASS
			1000~26500	1.76	-49.32	≤-18.24	PASS
2DH5	Ant1	2402	Reference	0.81	0.81	---	PASS
			30~1000	0.81	-61.29	≤-19.19	PASS
			1000~26500	0.81	-49.08	≤-19.19	PASS
		2441	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-61.15	≤-18.77	PASS
			1000~26500	1.23	-48.59	≤-18.77	PASS
		2480	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-61.56	≤-18.62	PASS
			1000~26500	1.38	-49.23	≤-18.62	PASS
3DH5	Ant1	2402	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-61.7	≤-19.29	PASS
			1000~26500	0.71	-49.68	≤-19.29	PASS
		2441	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-62.13	≤-19.33	PASS
			1000~26500	0.67	-49.73	≤-19.33	PASS
		2480	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-61.72	≤-18.63	PASS
			1000~26500	1.37	-49.05	≤-18.63	PASS



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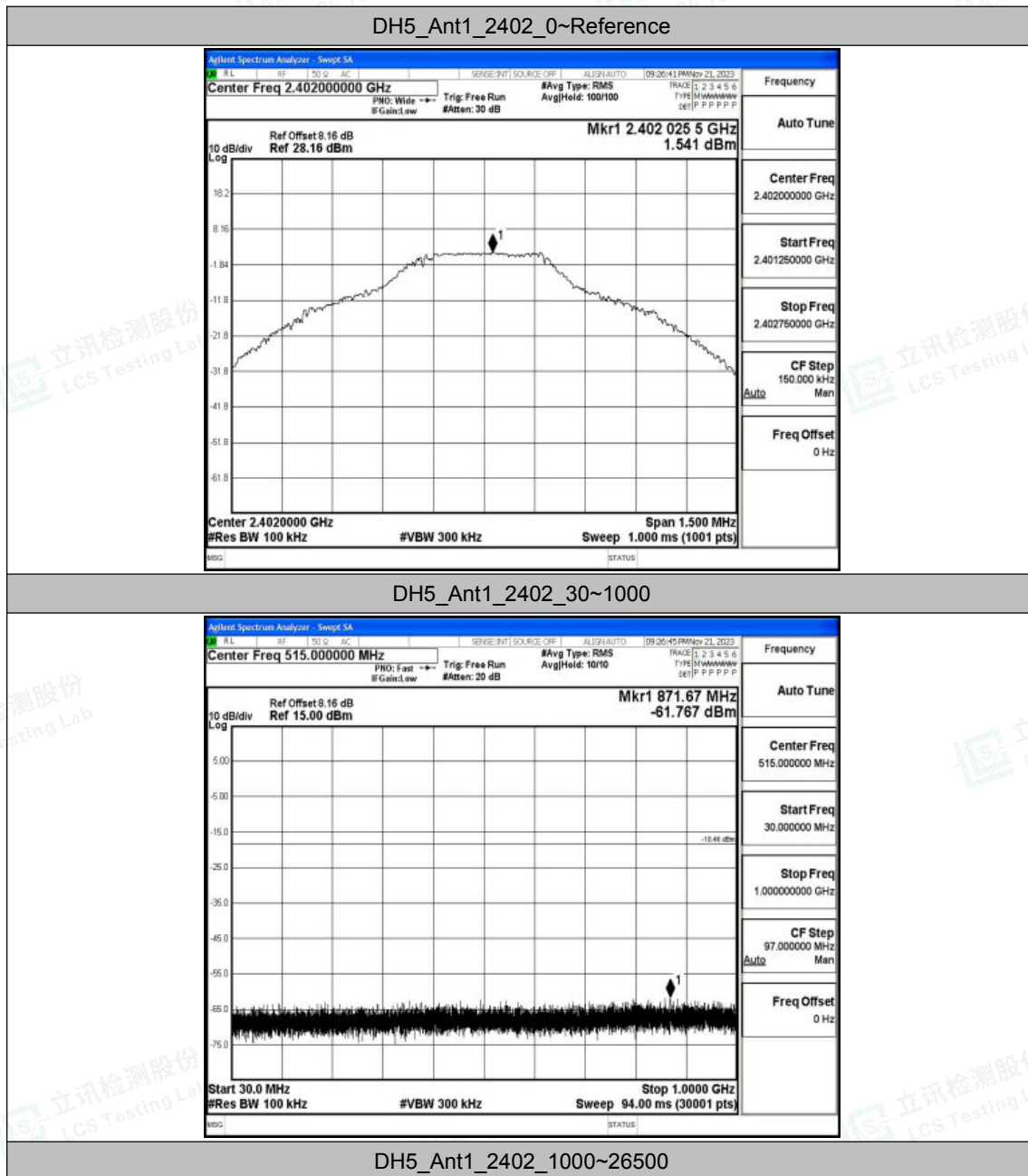
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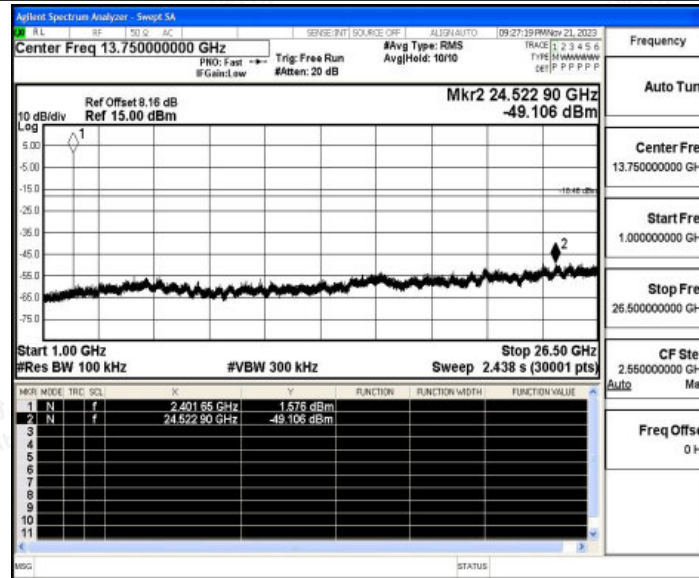
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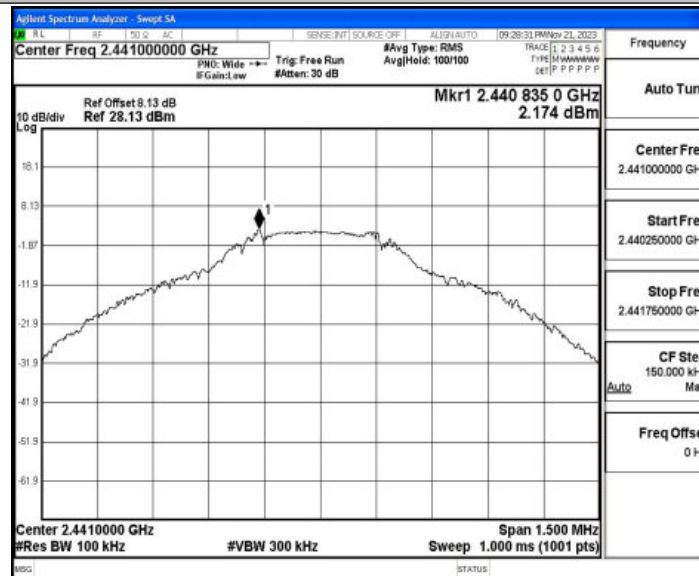


Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

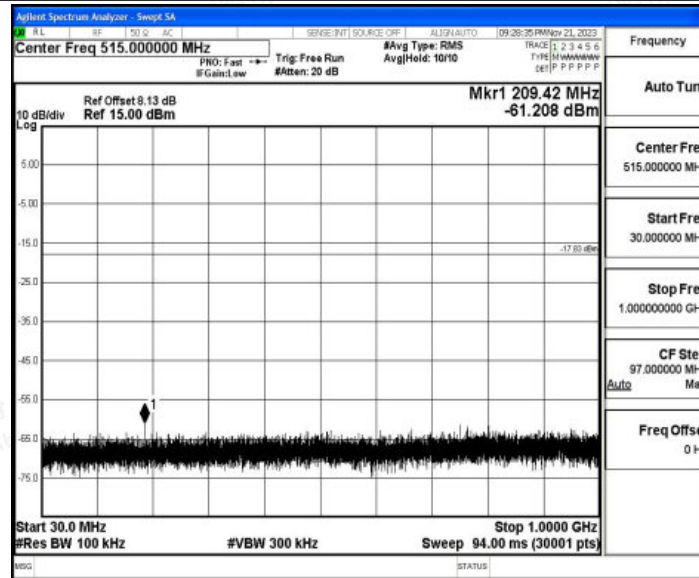


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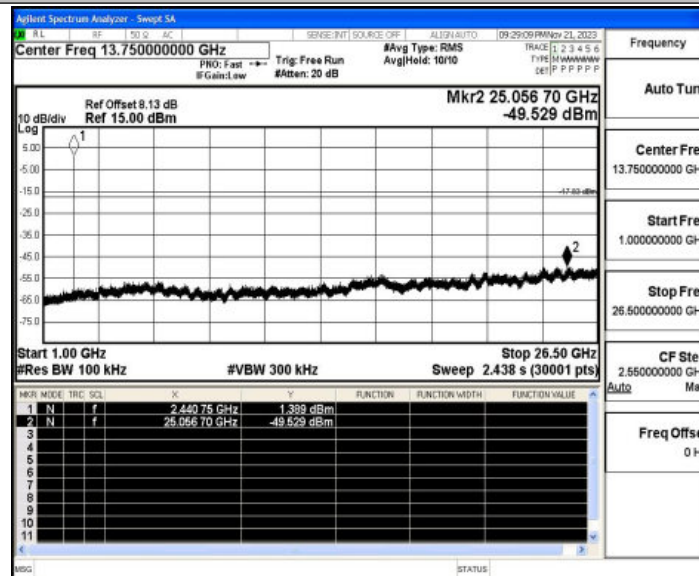
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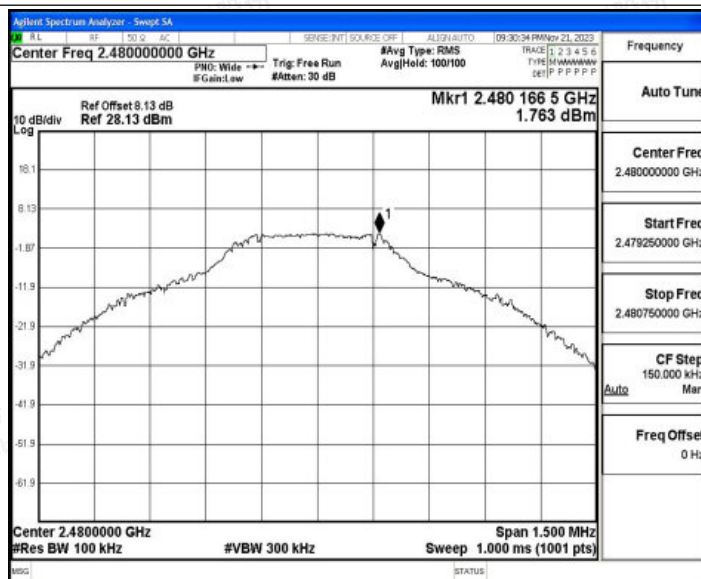


DH5_Ant1_2441_1000~26500

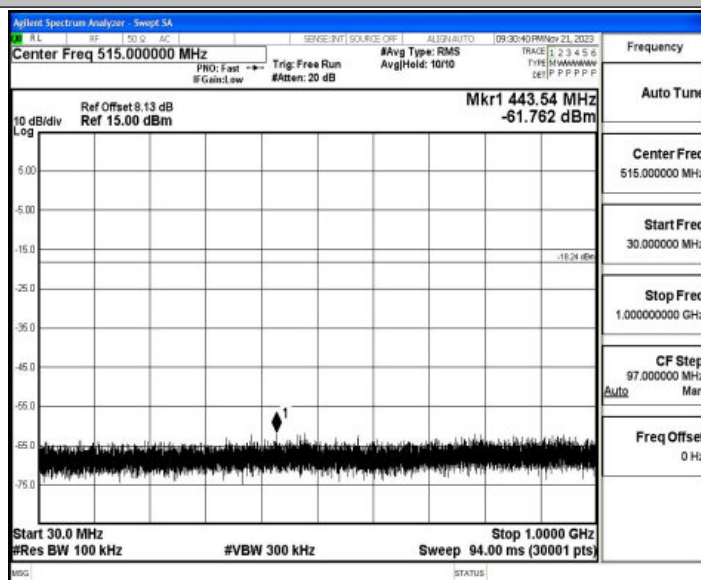


DH5_Ant1_2480_0~Reference



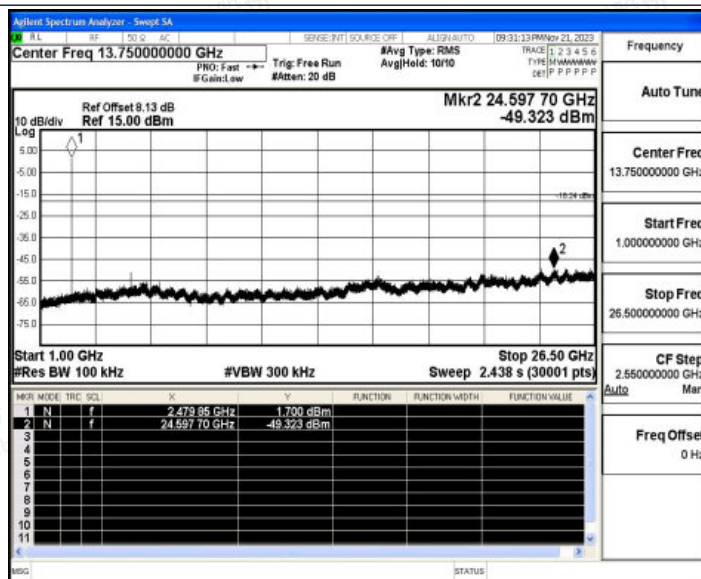


DH5_Ant1_2480_30~1000

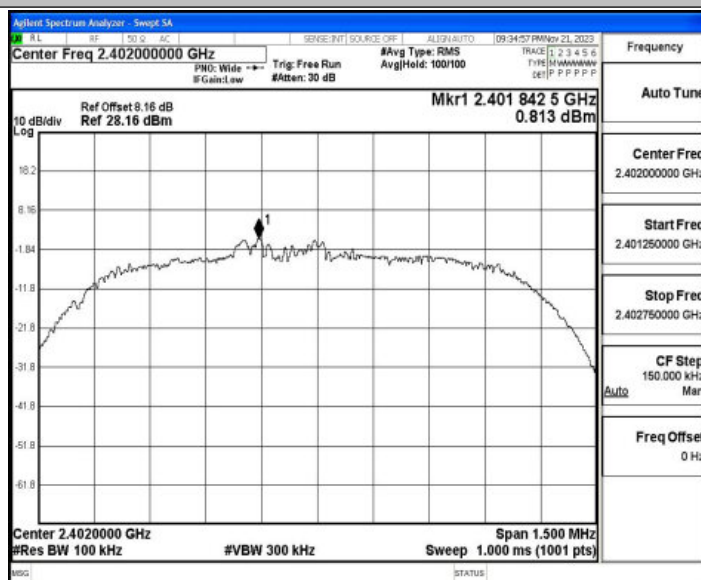


DH5_Ant1_2480_1000~26500



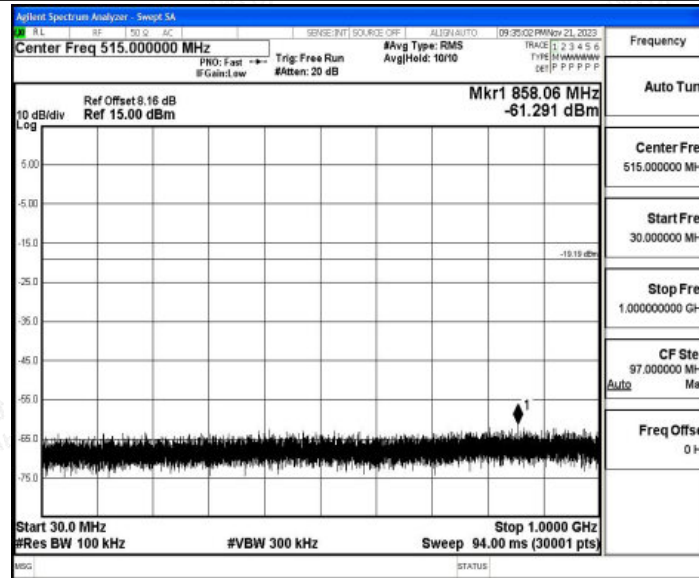


2DH5 Ant1 2402 0~Reference

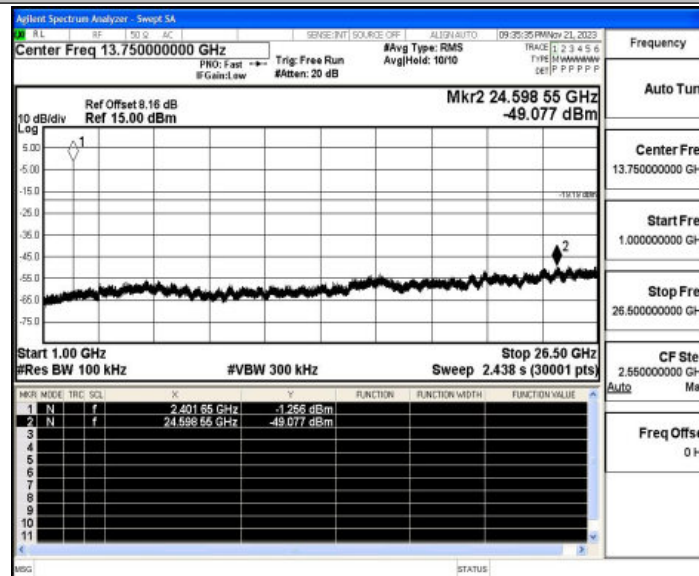


2DH5_Ant1_2402_30~1000





2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

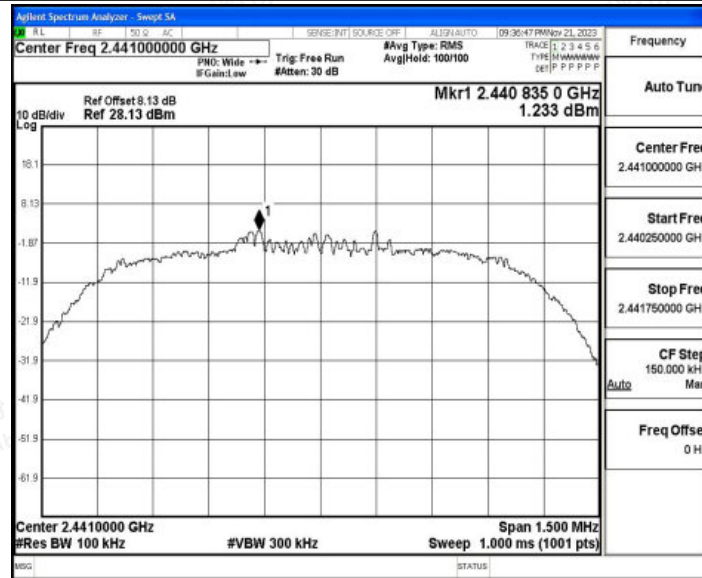


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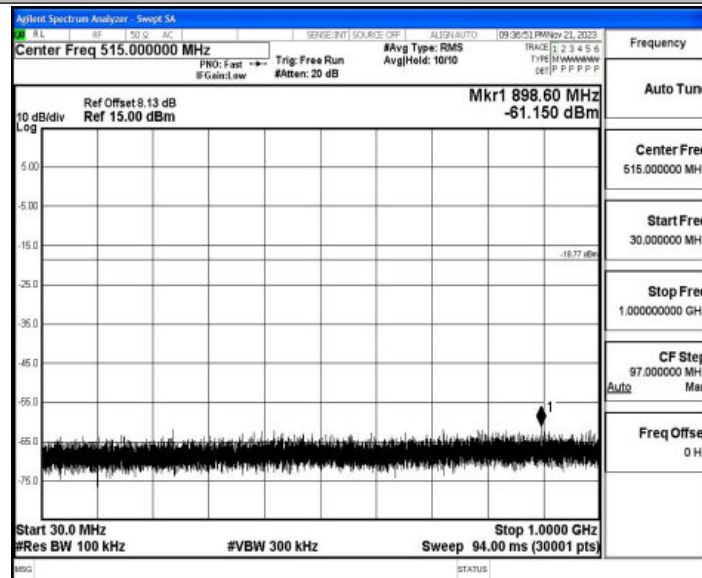
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

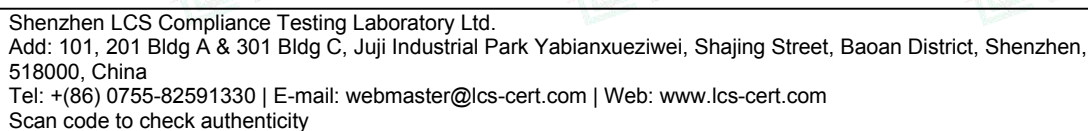
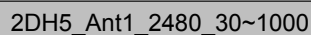
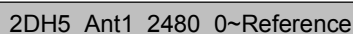


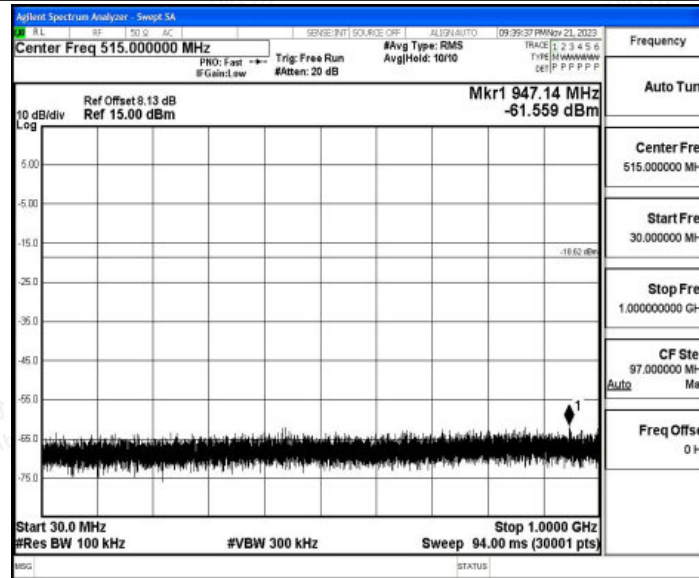
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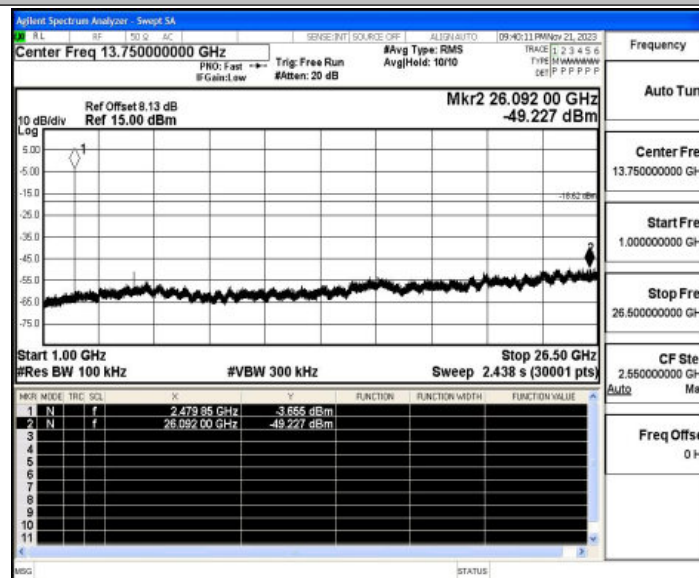
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

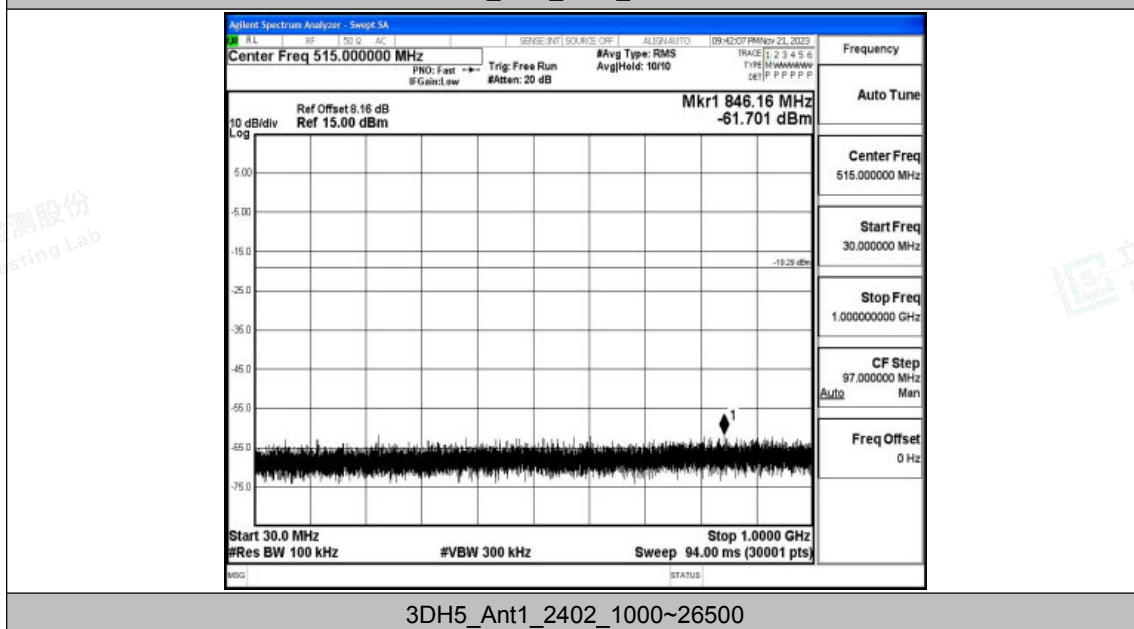
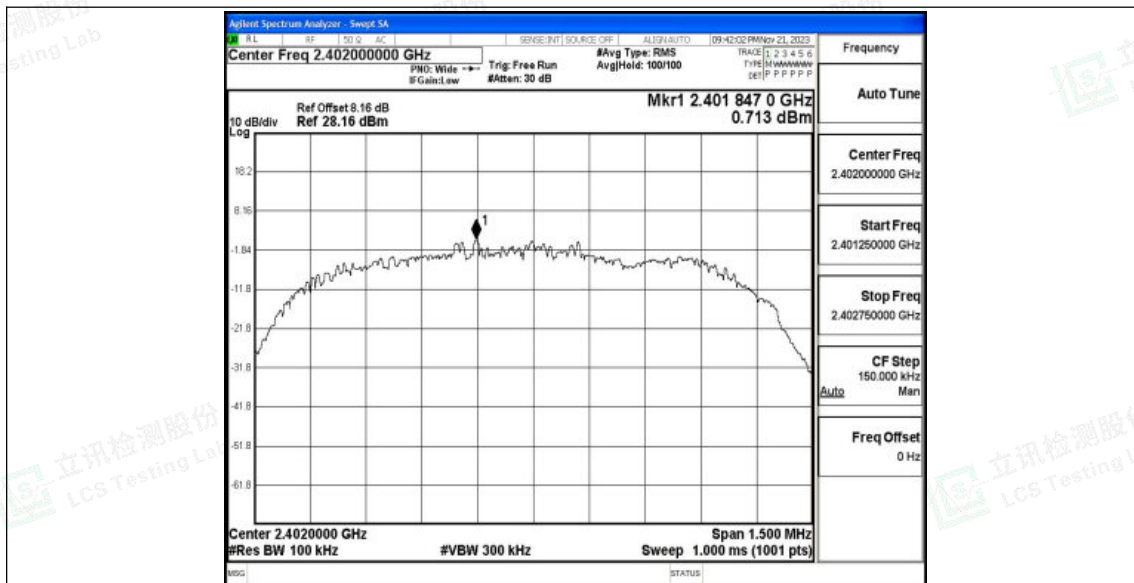


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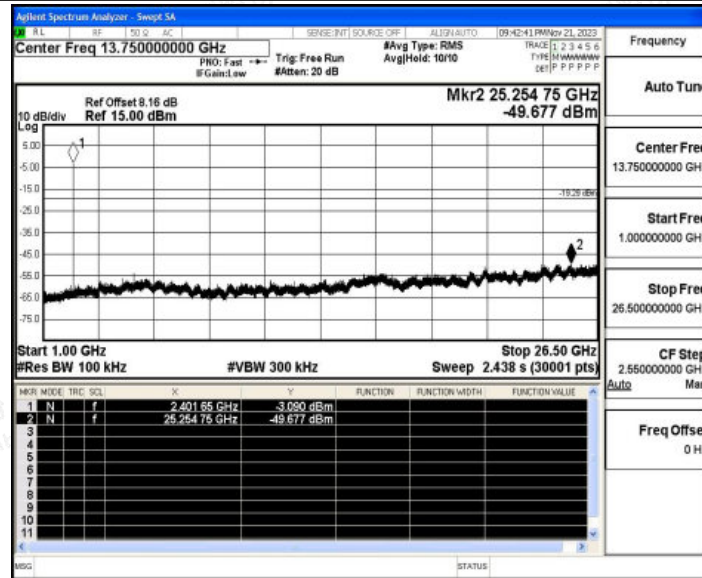


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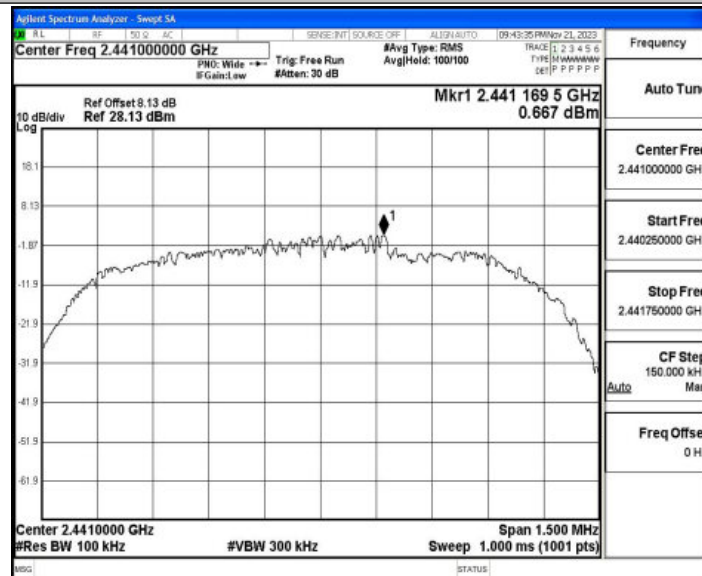
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

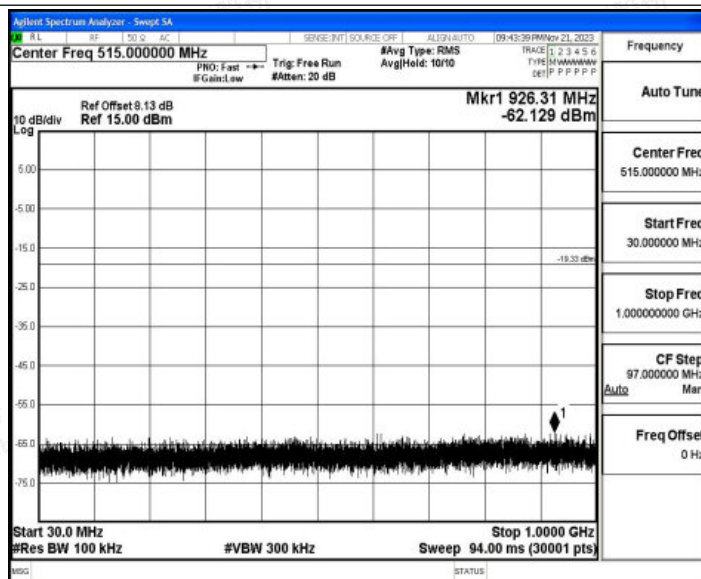


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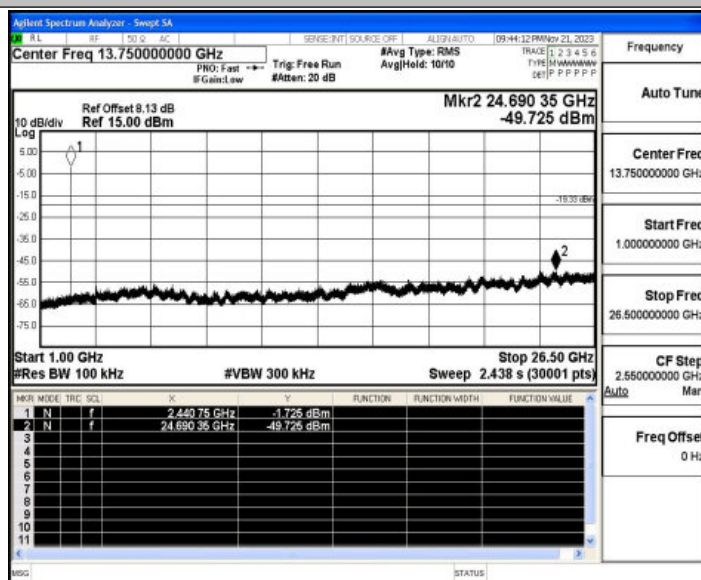
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

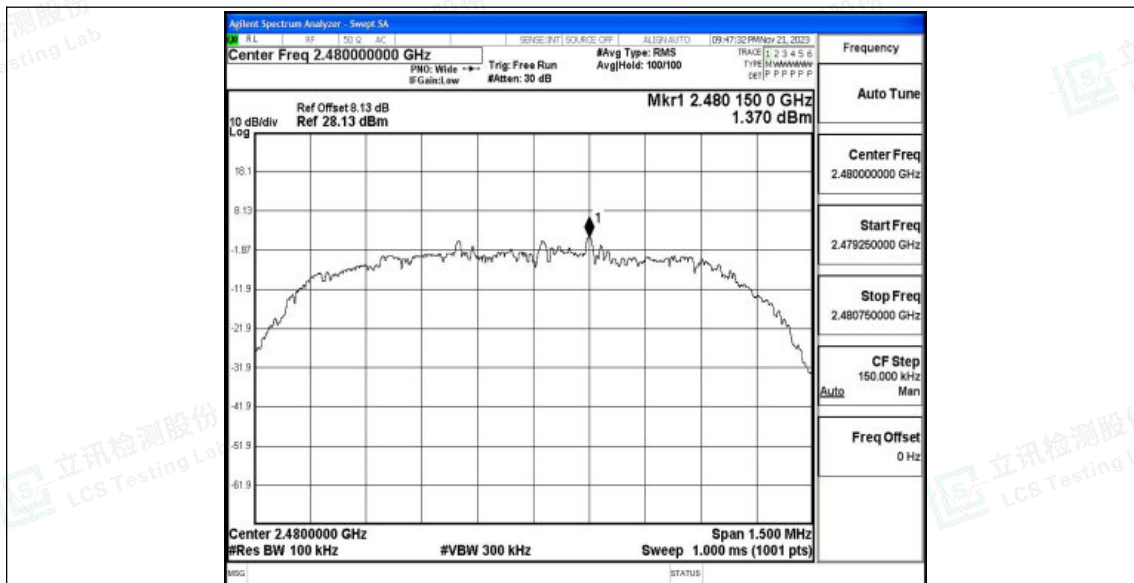


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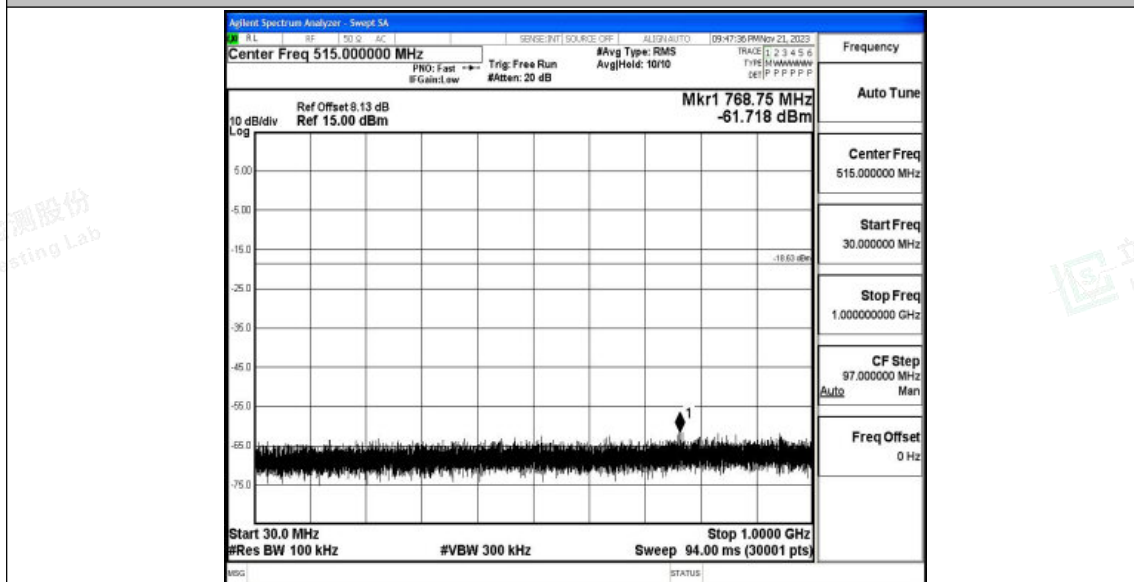
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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

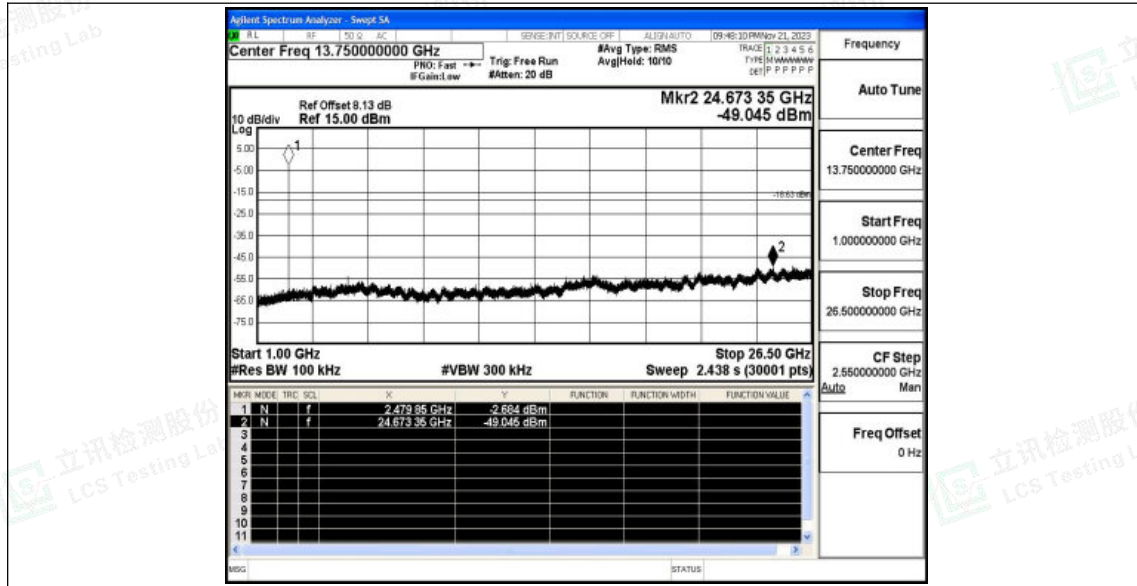


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A.8 Emissions in Restricted Bands

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	-49.13	≤-41.20	46.07	≤54	PASS
				AV	2384.210	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2390.000	-48.8	≤-41.20	46.40	≤54	PASS
				Peak	2310.000	-43.26	≤-21.20	51.94	≤74	PASS
				Peak	2365.835	-39.97	≤-21.20	55.23	≤74	PASS
				Peak	2390.000	-43.7	≤-21.20	51.50	≤74	PASS
		High	2480	AV	2483.500	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2483.520	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2500.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2483.500	-43.77	≤-21.20	51.43	≤74	PASS
				Peak	2487.440	-40.27	≤-21.20	54.93	≤74	PASS
				Peak	2500.000	-44.28	≤-21.20	50.92	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.36	≤-21.20	53.84	≤74	PASS
				Peak	2370.350	-38.39	≤-21.20	56.81	≤74	PASS
				Peak	2390.000	-41.67	≤-21.20	53.53	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.21	≤-21.20	54.99	≤74	PASS
				Peak	2484.800	-37.54	≤-21.20	57.66	≤74	PASS
				Peak	2500.000	-40.91	≤-21.20	54.29	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.16	≤-41.20	46.04	≤54	PASS
				AV	2387.255	-48.57	≤-41.20	46.63	≤54	PASS
				AV	2390.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2310.000	-41.61	≤-21.20	53.59	≤74	PASS
				Peak	2357.435	-39.42	≤-21.20	55.78	≤74	PASS
				Peak	2390.000	-44.73	≤-21.20	50.47	≤74	PASS
		High	2480	AV	2483.500	-48.12	≤-41.20	47.08	≤54	PASS
				AV	2483.520	-48.12	≤-41.20	47.08	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-43.62	≤-21.20	51.58	≤74	PASS
				Peak	2491.040	-39.86	≤-21.20	55.34	≤74	PASS
				Peak	2500.000	-41.81	≤-21.20	53.39	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.59	≤-21.20	55.61	≤74	PASS
				Peak	2384.210	-38.55	≤-21.20	56.65	≤74	PASS
				Peak	2390.000	-40.58	≤-21.20	54.62	≤74	PASS
		High	Hop_24	Peak	2483.500	-40.73	≤-21.20	54.47	≤74	PASS



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3DH5	Ant1		80	Peak	2498.080	-38.11	≤ -21.20	57.09	≤ 74	PASS
				Peak	2500.000	-40.14	≤ -21.20	55.06	≤ 74	PASS
		Low	2402	AV	2310.000	-49.17	≤ -41.20	46.03	≤ 54	PASS
				AV	2388.725	-48.58	≤ -41.20	46.62	≤ 54	PASS
				AV	2390.000	-48.77	≤ -41.20	46.43	≤ 54	PASS
				Peak	2310.000	-42.72	≤ -21.20	52.48	≤ 74	PASS
				Peak	2374.445	-38.47	≤ -21.20	56.73	≤ 74	PASS
				Peak	2390.000	-42.66	≤ -21.20	52.54	≤ 74	PASS
		High	2480	AV	2483.500	-48.2	≤ -41.20	47.00	≤ 54	PASS
				AV	2483.520	-48.2	≤ -41.20	47.00	≤ 54	PASS
				AV	2500.000	-48.65	≤ -41.20	46.55	≤ 54	PASS
				Peak	2483.500	-43.73	≤ -21.20	51.47	≤ 74	PASS
				Peak	2497.200	-38.98	≤ -21.20	56.22	≤ 74	PASS
				Peak	2500.000	-41	≤ -21.20	54.20	≤ 74	PASS
		Low	Hop_2402	Peak	2310.000	-41.86	≤ -21.20	53.34	≤ 74	PASS
				Peak	2362.475	-38.83	≤ -21.20	56.37	≤ 74	PASS
				Peak	2390.000	-40.77	≤ -21.20	54.43	≤ 74	PASS
		High	Hop_2480	Peak	2483.500	-39.04	≤ -21.20	56.16	≤ 74	PASS
				Peak	2497.120	-38.32	≤ -21.20	56.88	≤ 74	PASS
				Peak	2500.000	-39.65	≤ -21.20	55.55	≤ 74	PASS

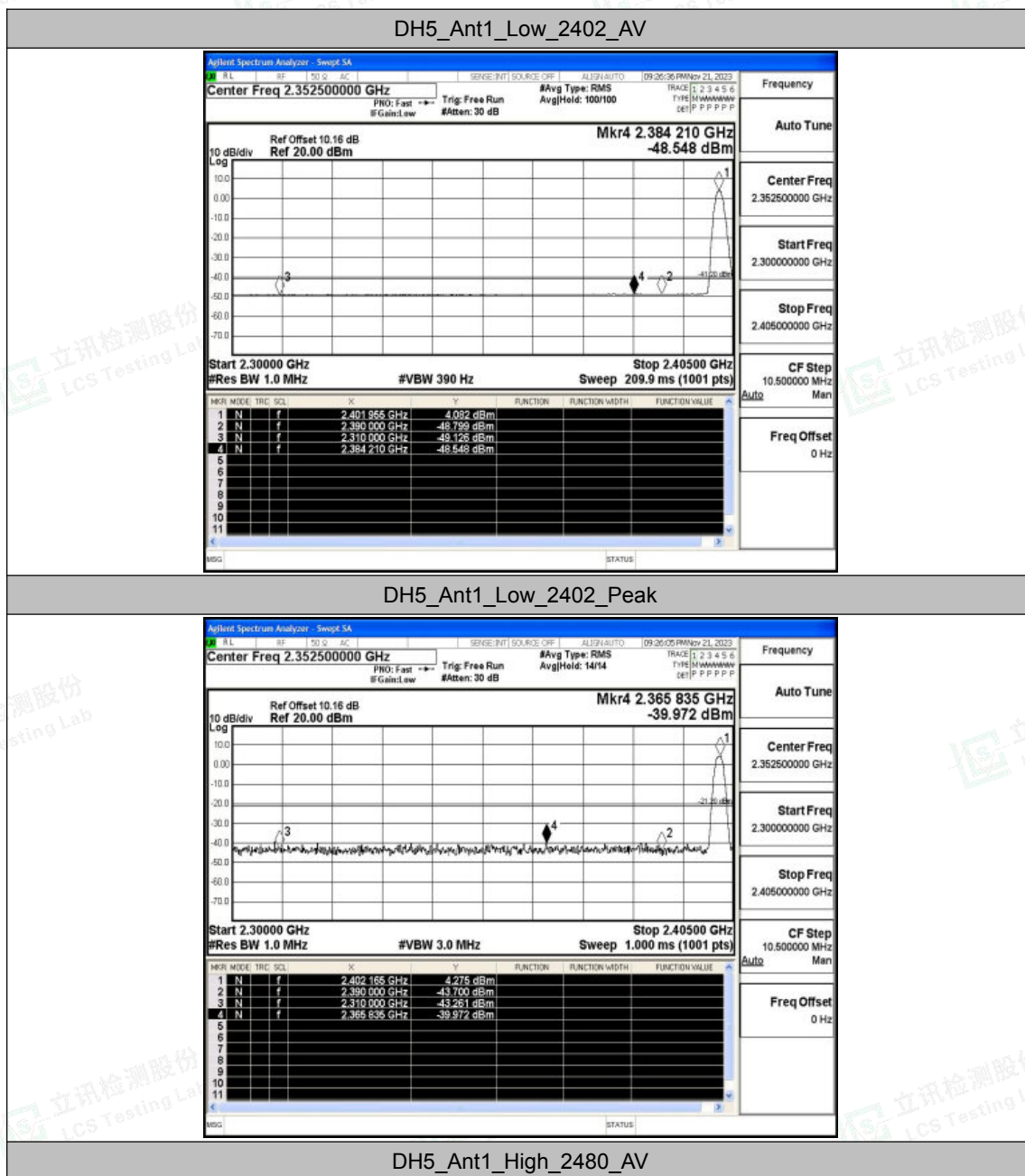
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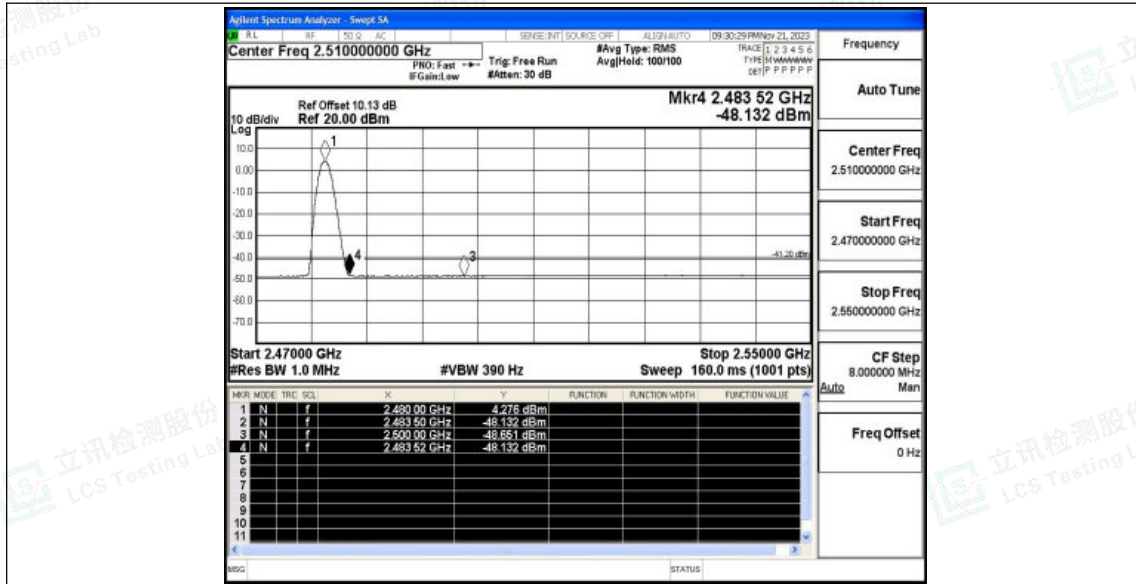
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



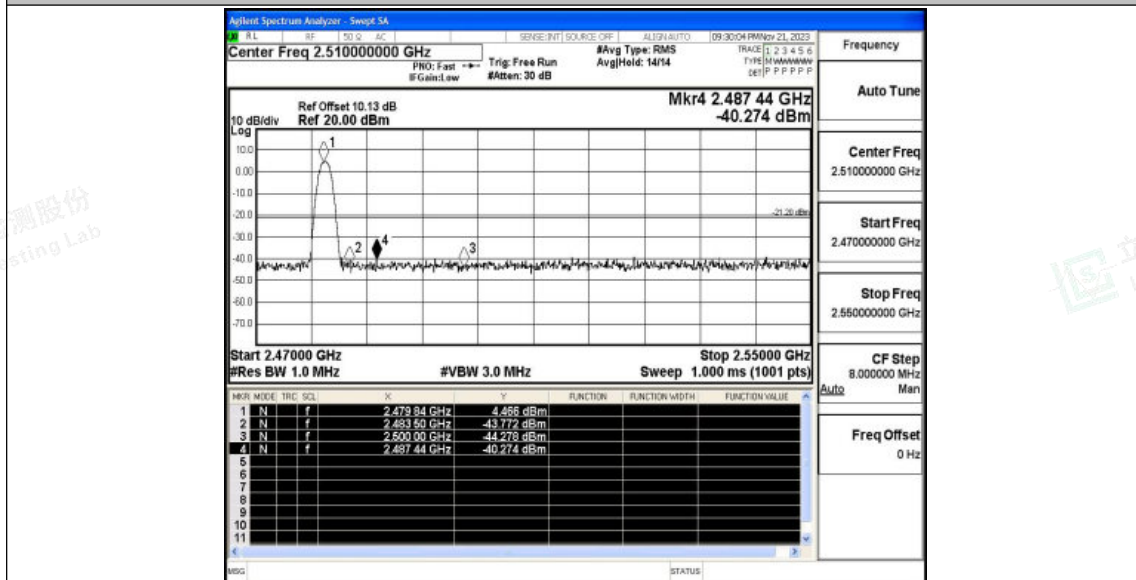


Test Graphs



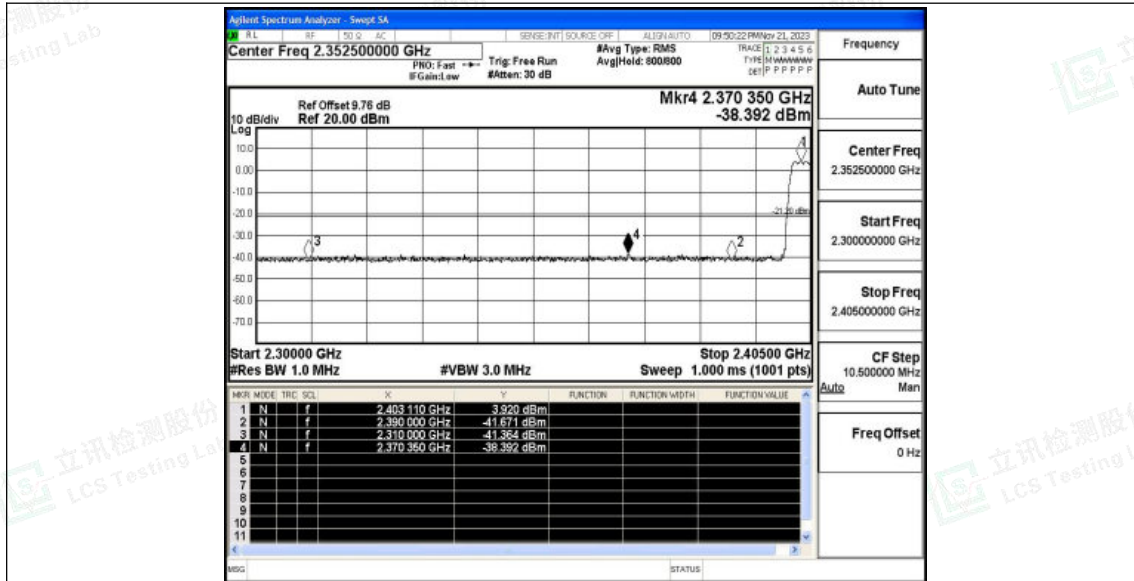


DH5_Ant1_High_2480_Peak

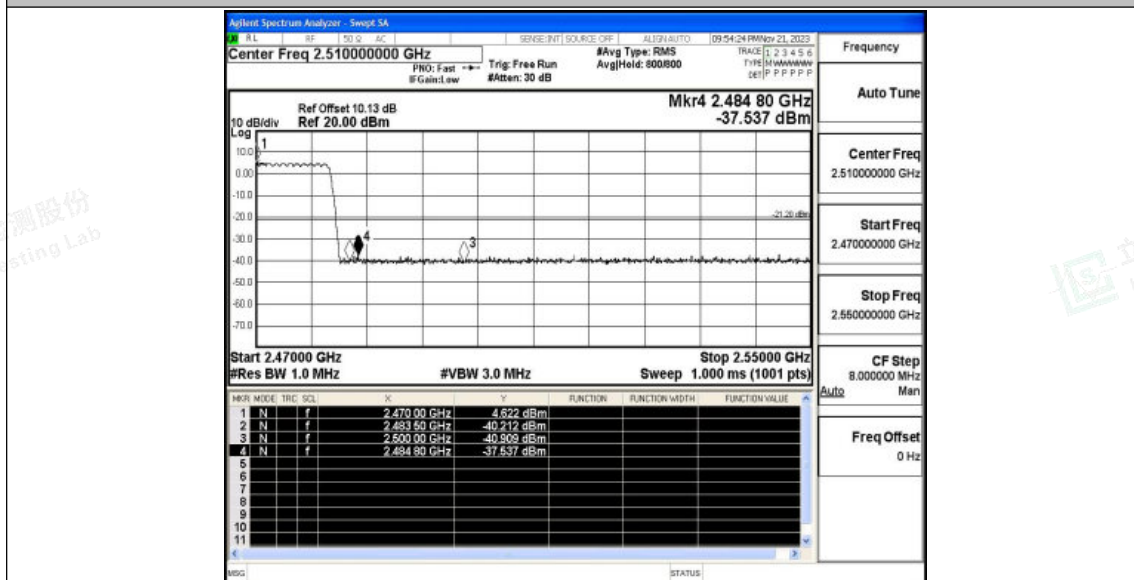


DH5_Ant1_Low_Hop_2402_Peak



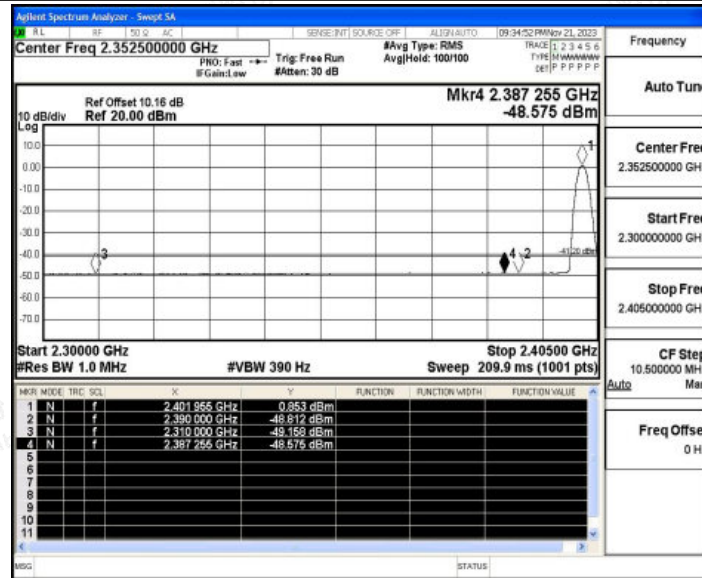


DH5_Ant1_High_Hop_2480_Peak

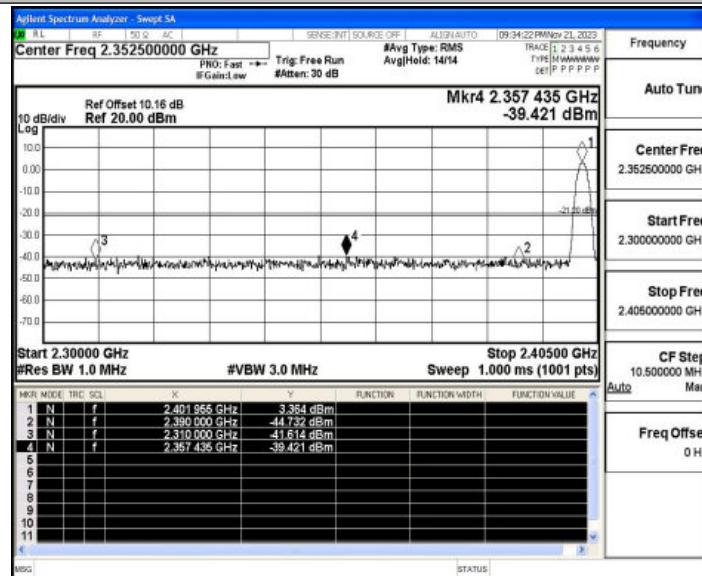


2DH5_Ant1_Low_2402_AV





2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

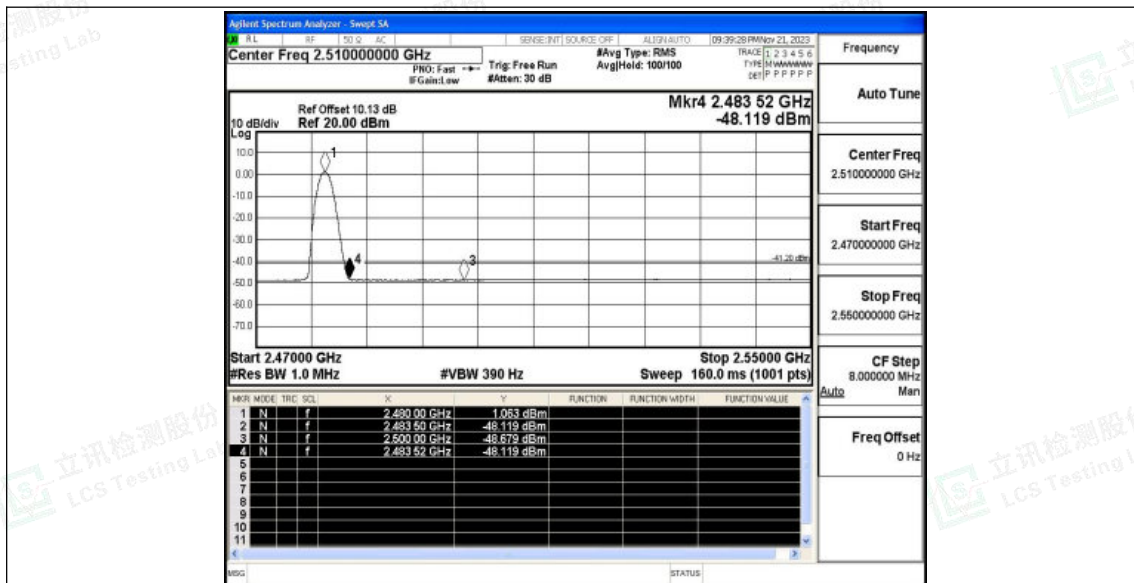


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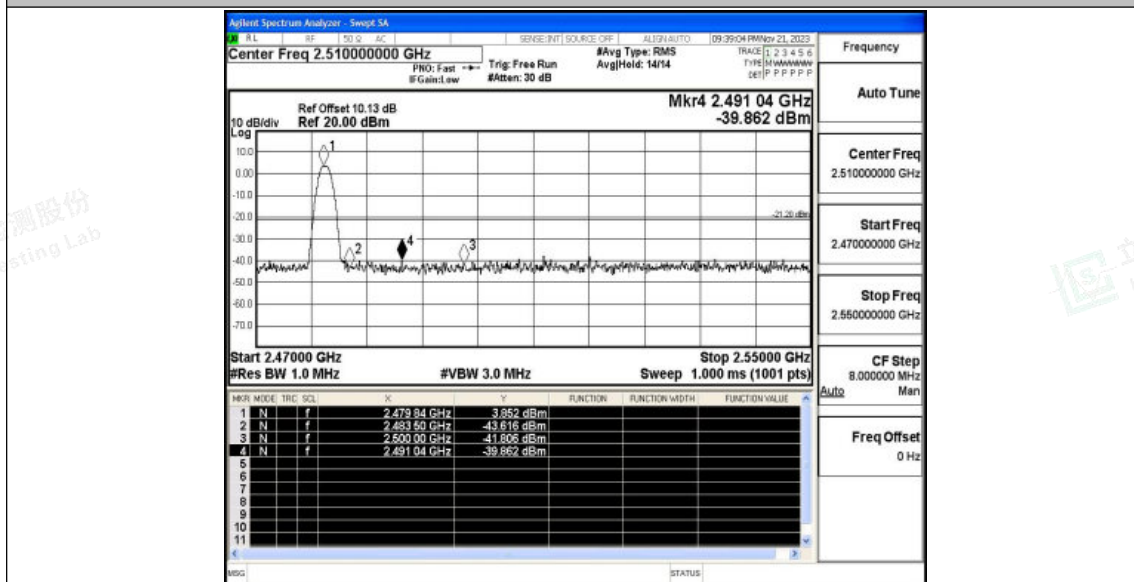
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

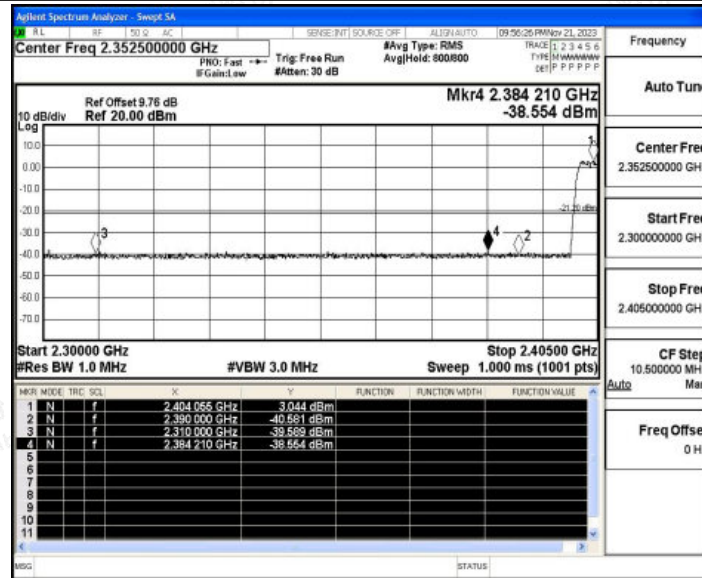


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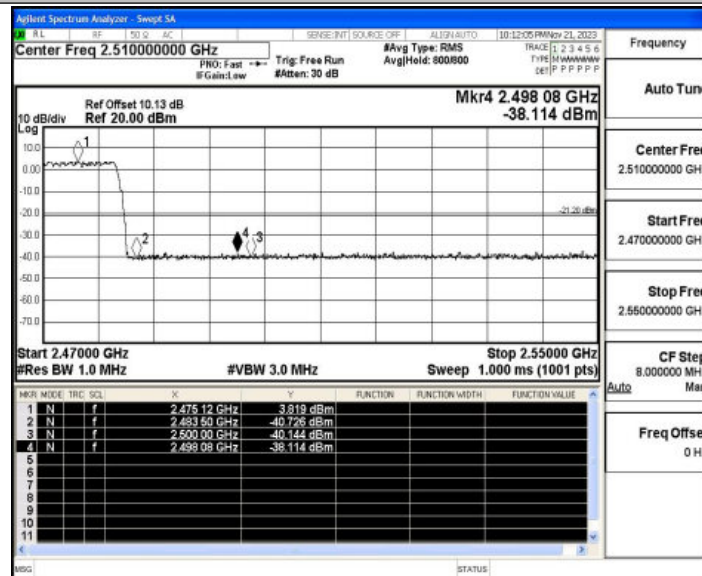
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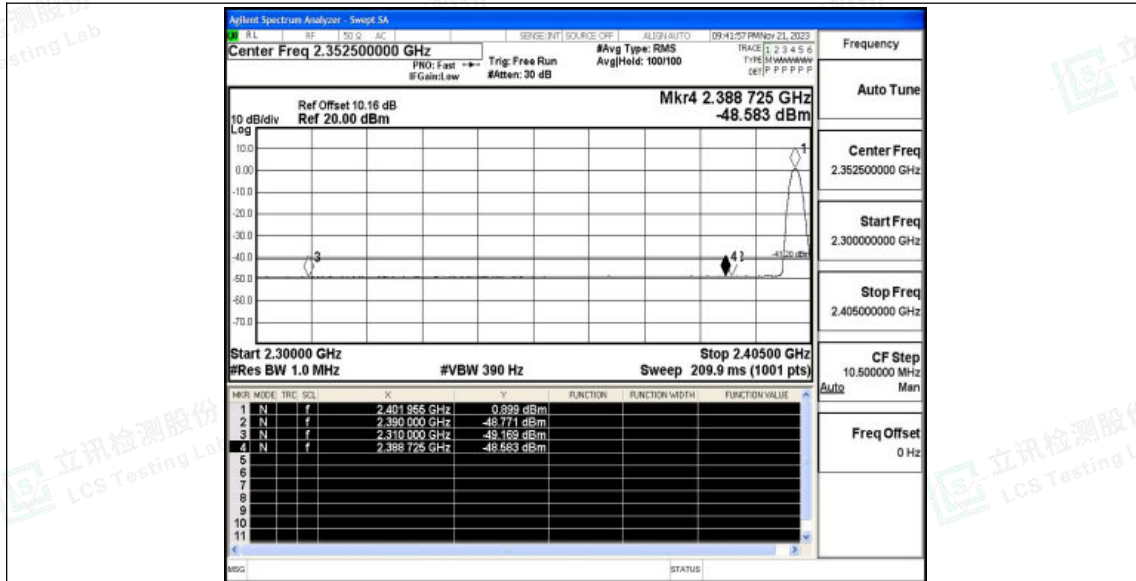


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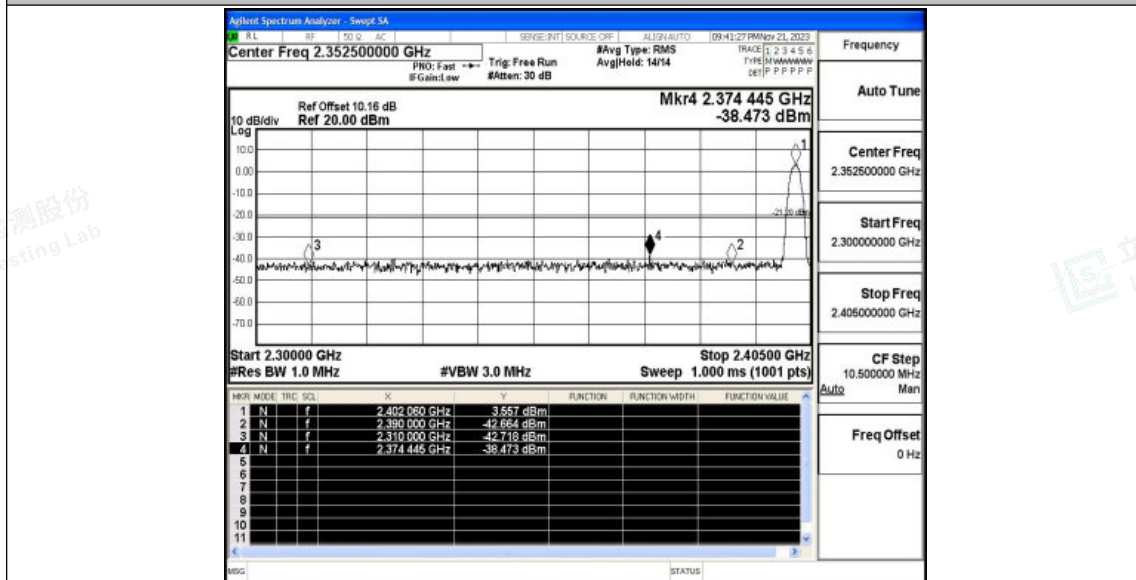


3DH5_Ant1_Low_2402_AV





3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

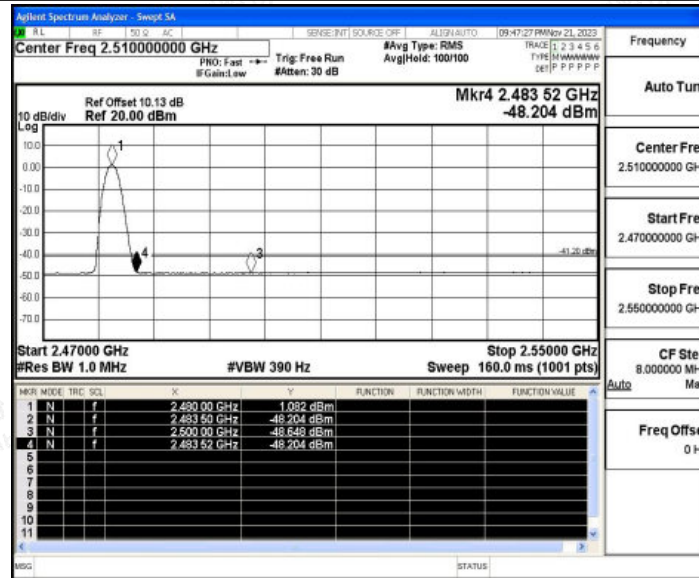


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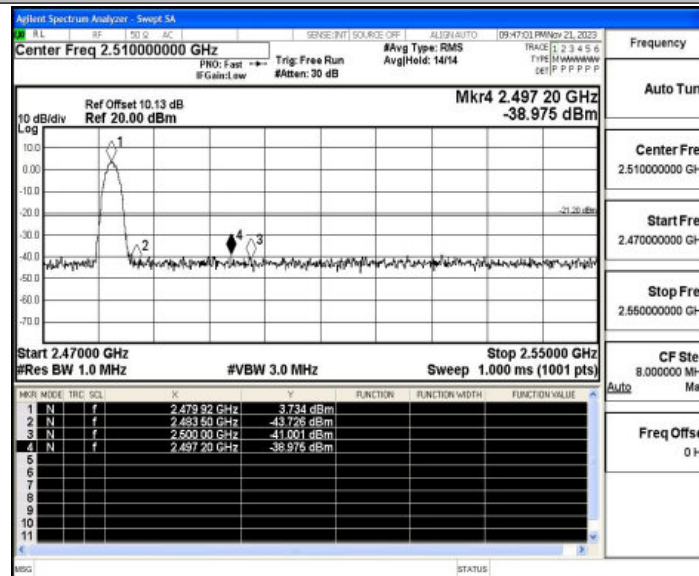
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

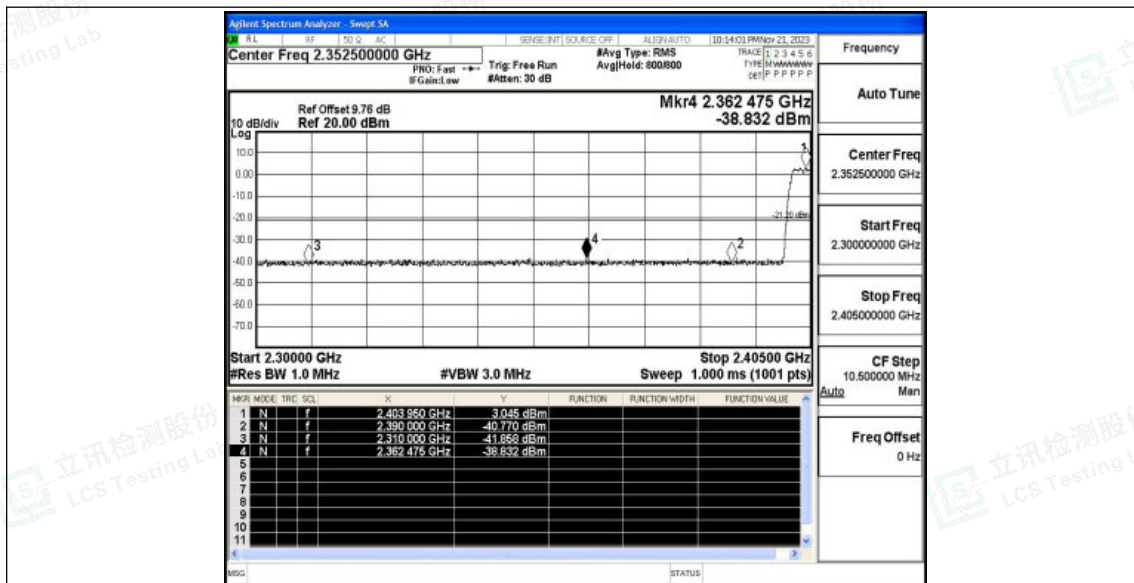


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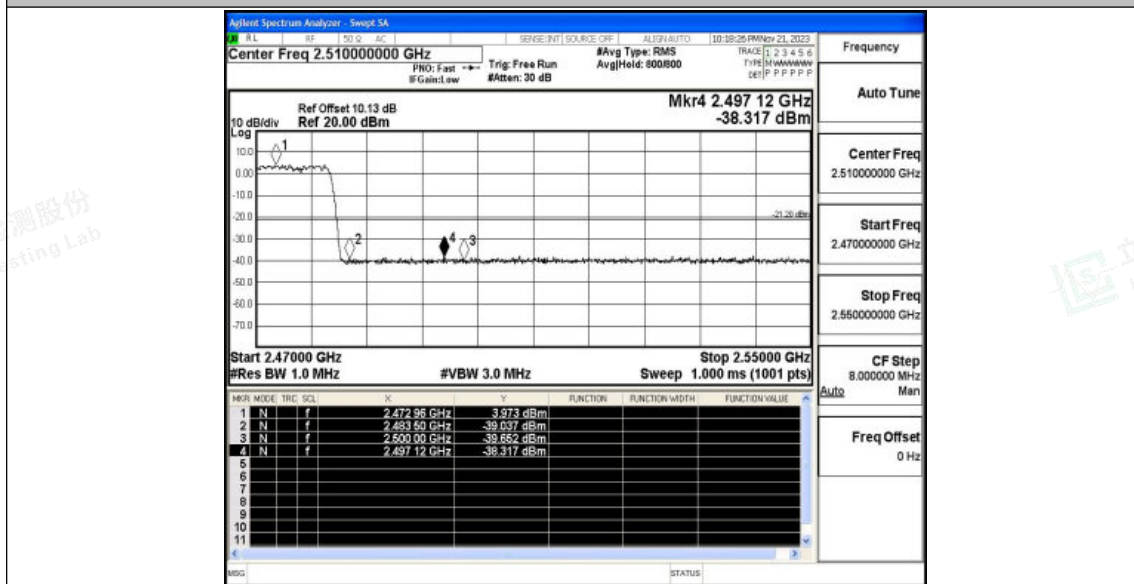
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3DH5_Ant1_High_Hop_2480_Peak



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