



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth headset

Test Model: X6

Environmental Conditions

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



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.445	2402.480	PASS
		2441	1.038	2440.445	2441.483	PASS
		2480	1.023	2479.457	2480.480	PASS
2DH5	Ant1	2402	1.308	2401.334	2402.642	PASS
		2441	1.341	2440.316	2441.657	PASS
		2480	1.293	2479.346	2480.639	PASS
3DH5	Ant1	2402	1.305	2401.337	2402.642	PASS
		2441	1.311	2440.331	2441.642	PASS
		2480	1.311	2479.331	2480.642	PASS



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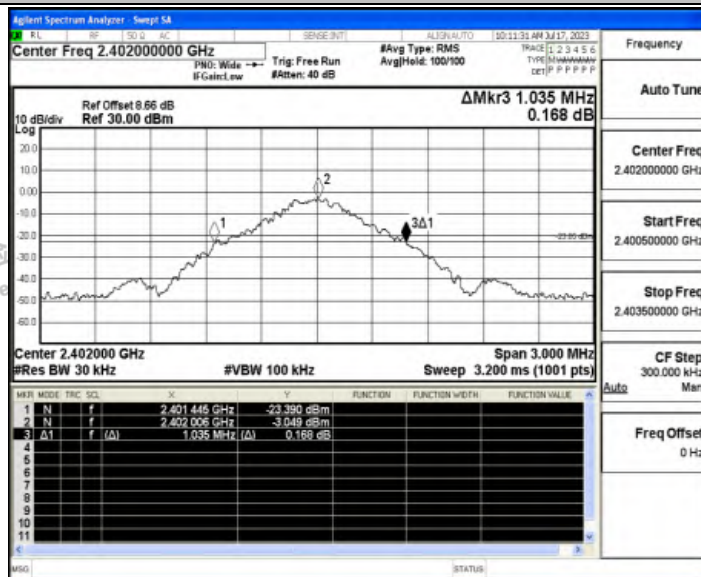
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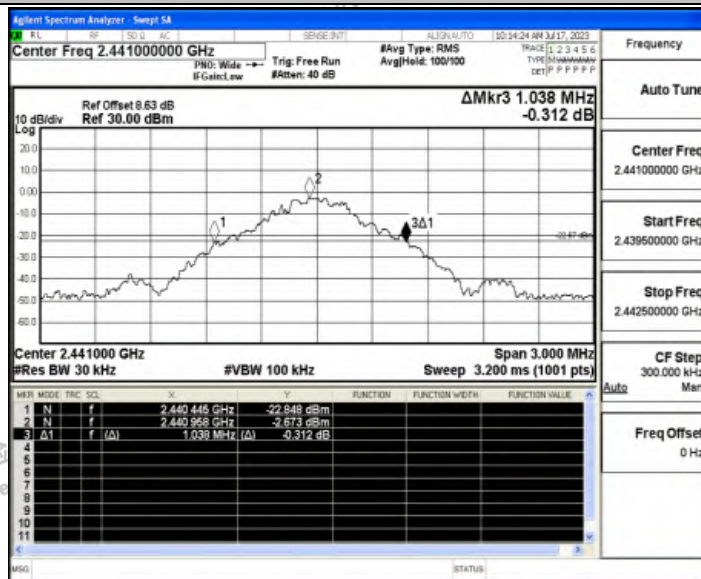


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

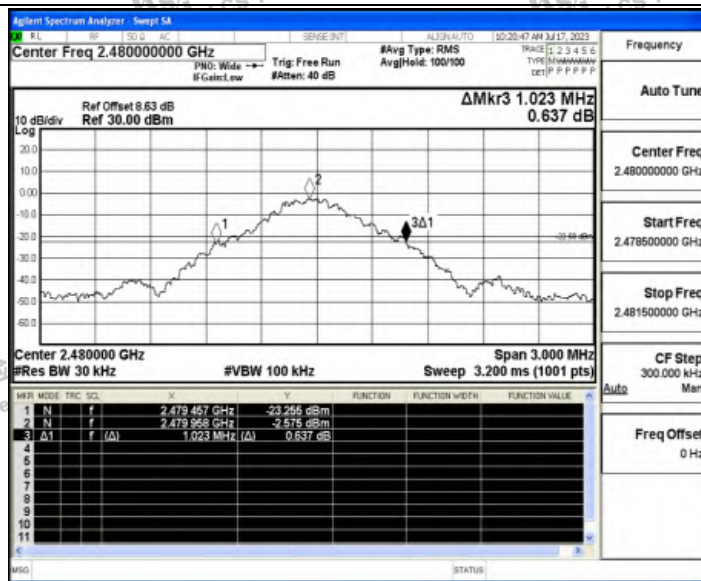


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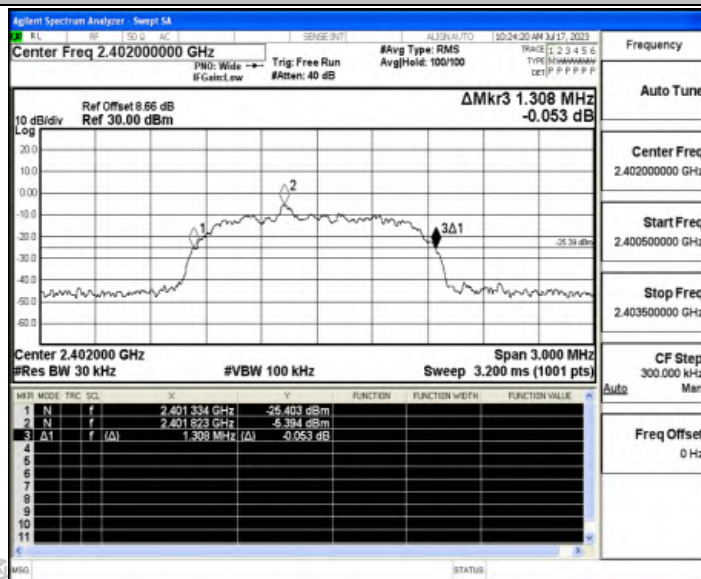
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2DH5_Ant1_2402



2DH5_Ant1_2441

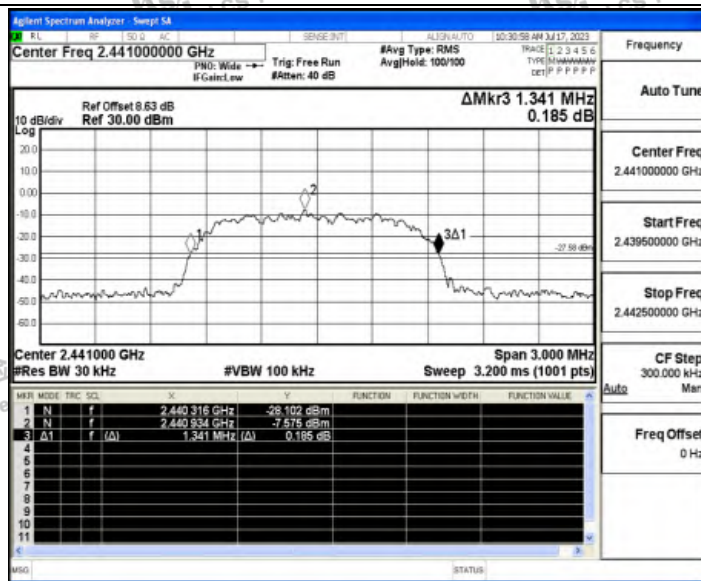


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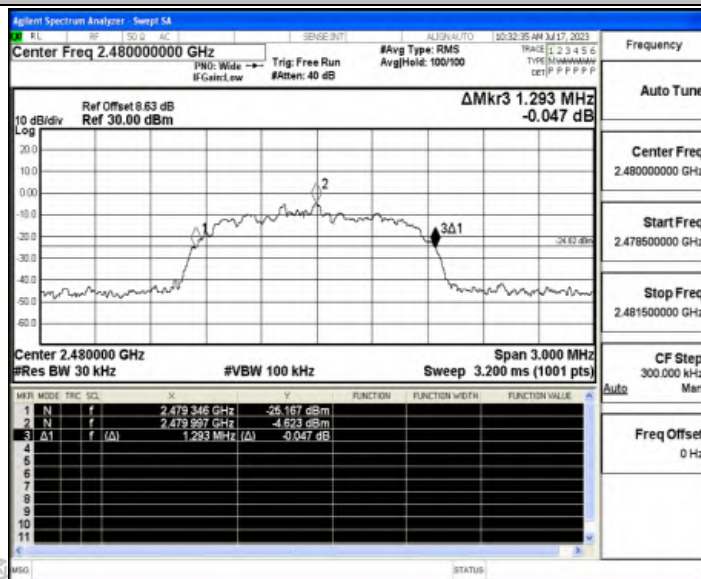
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2DH5_Ant1_2480



3DH5_Ant1_2402

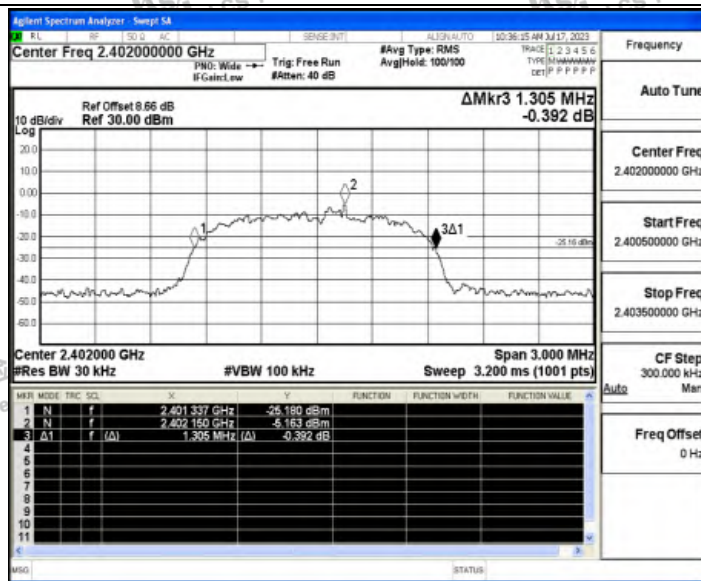


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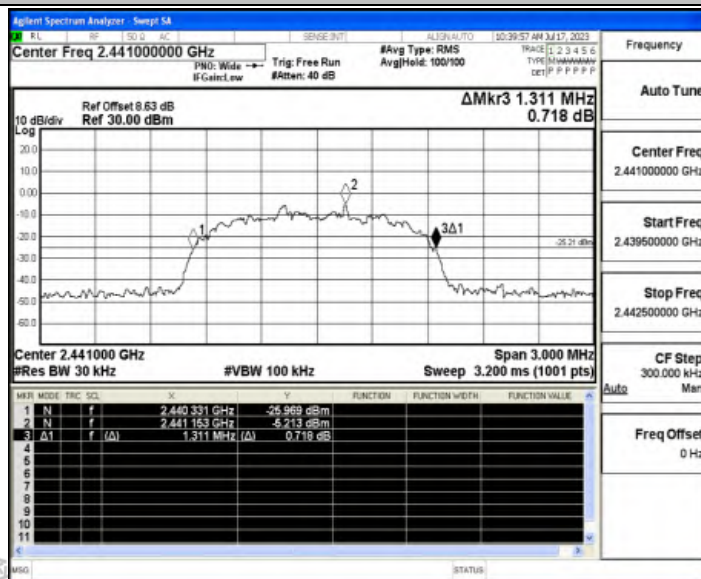
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3DH5_Ant1_2441



3DH5_Ant1_2480

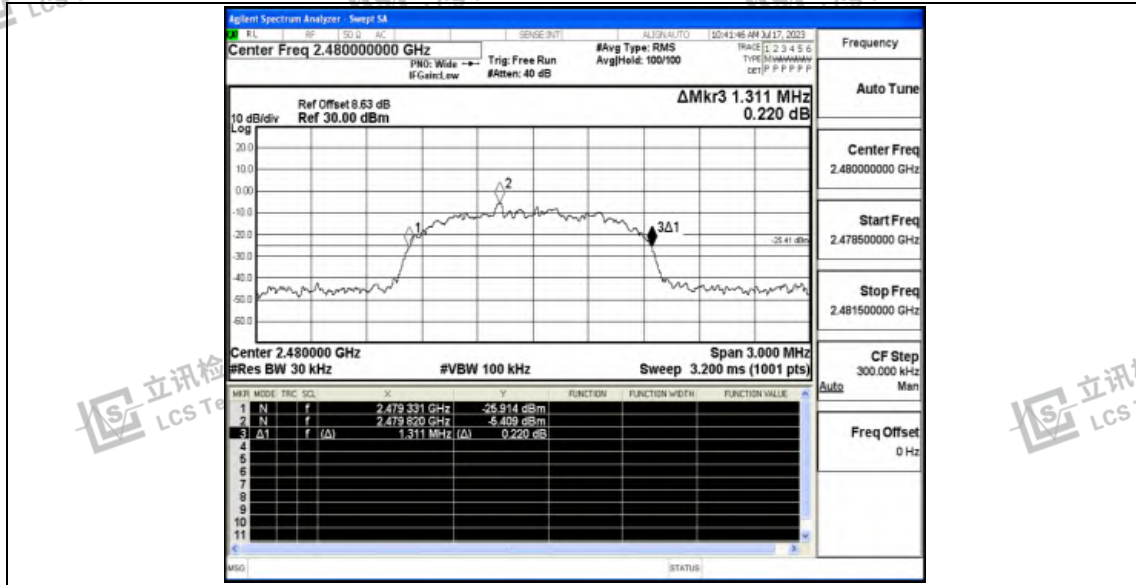


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.31	≤20.97	PASS
		2441	0.39	≤20.97	PASS
		2480	0.51	≤20.97	PASS
2DH5	Ant1	2402	-0.06	≤20.97	PASS
		2441	0.07	≤20.97	PASS
		2480	0.22	≤20.97	PASS
3DH5	Ant1	2402	0.14	≤20.97	PASS
		2441	0.20	≤20.97	PASS
		2480	0.34	≤20.97	PASS



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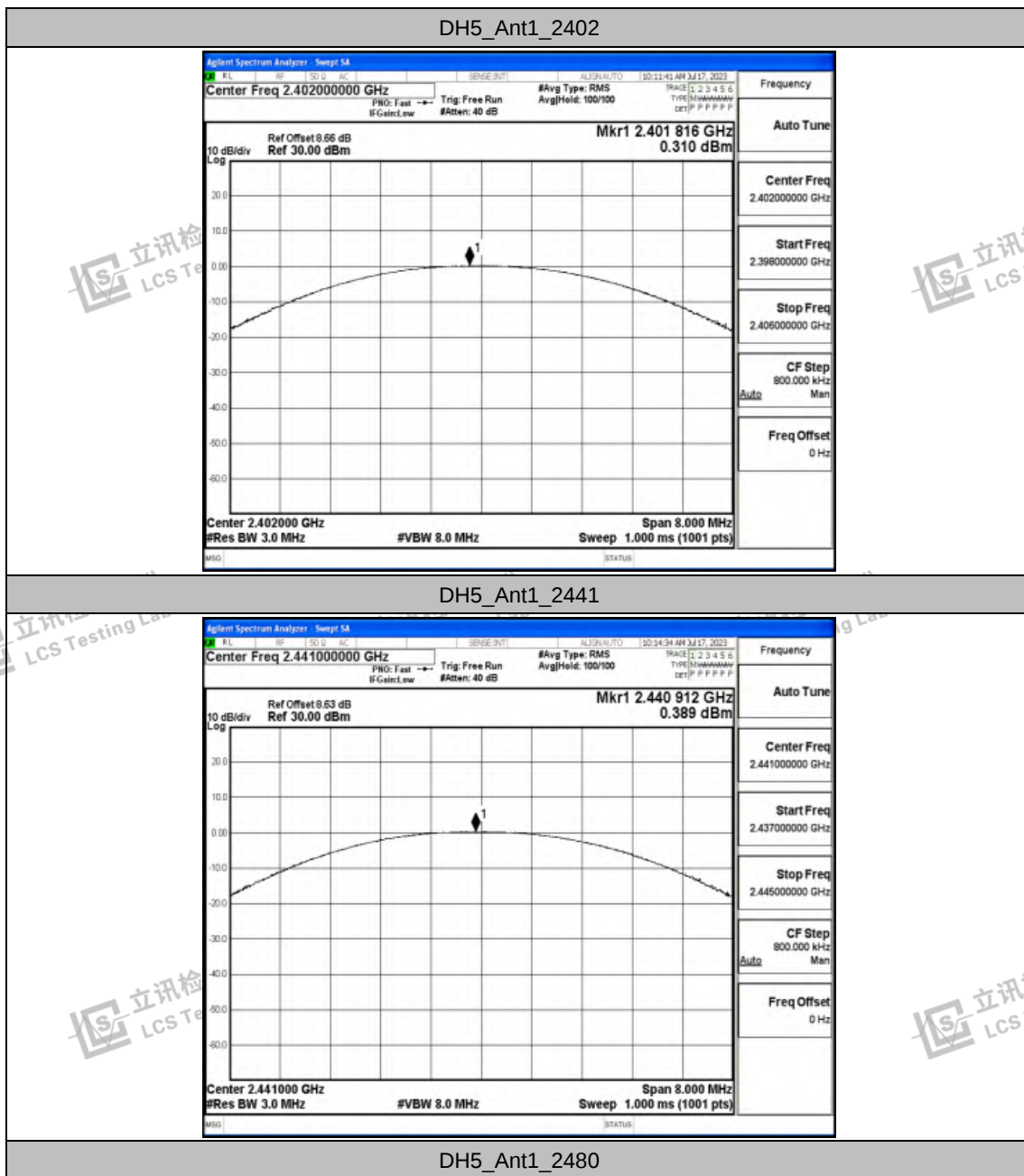
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Test Graphs

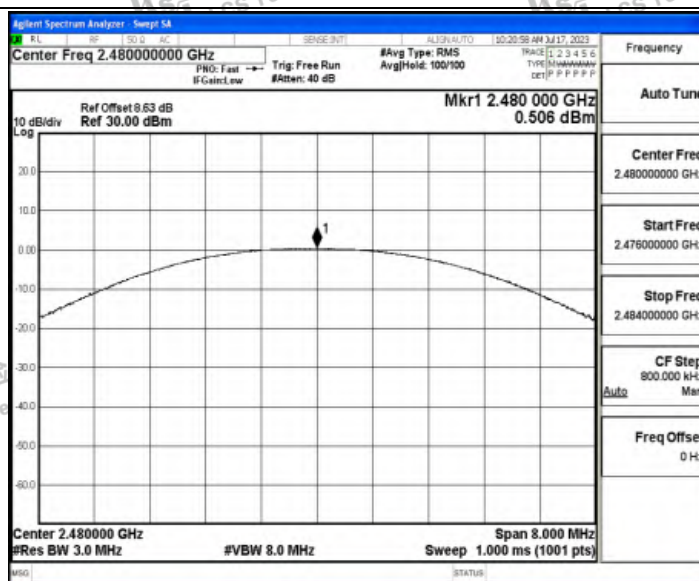


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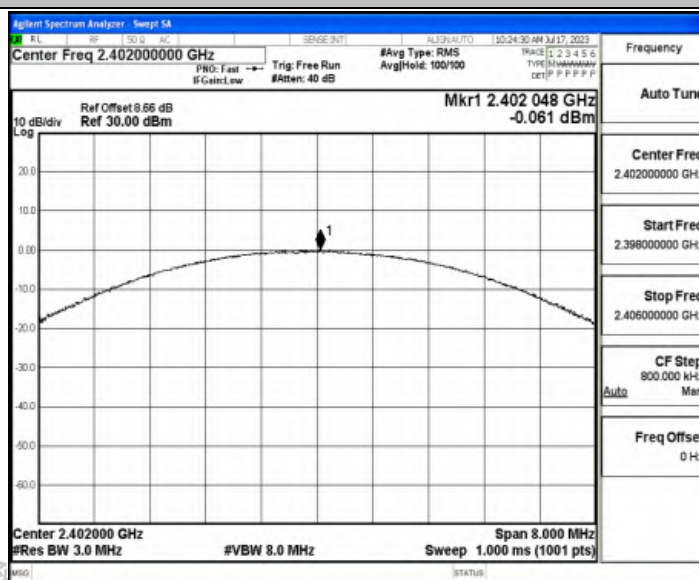
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2DH5_Ant1_2402



2DH5_Ant1_2441

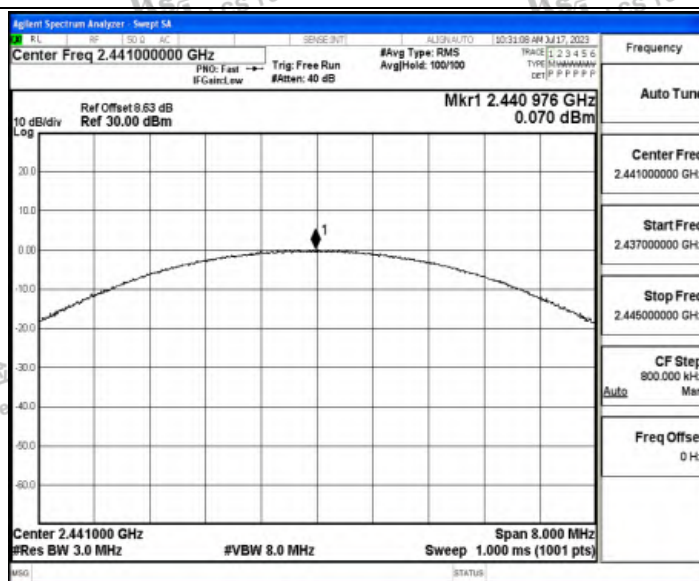


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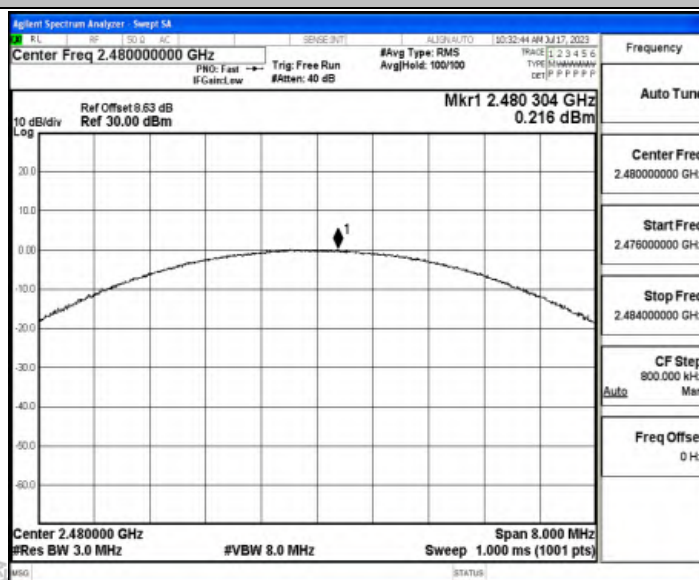
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2DH5_Ant1_2480



3DH5_Ant1_2402

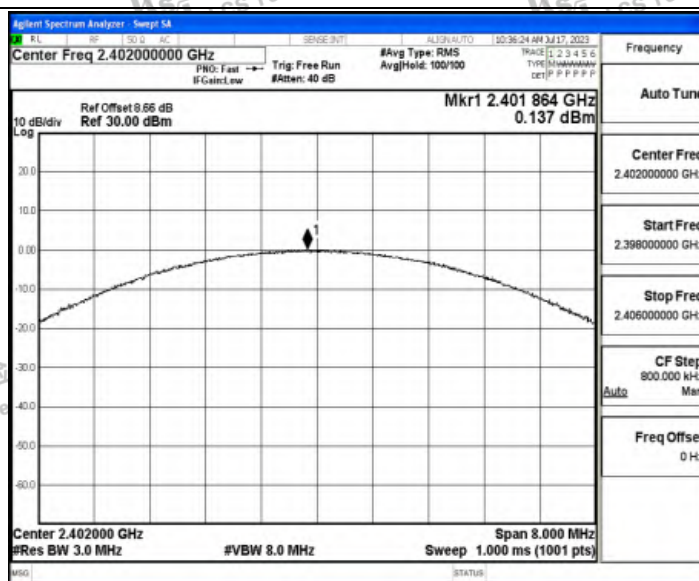


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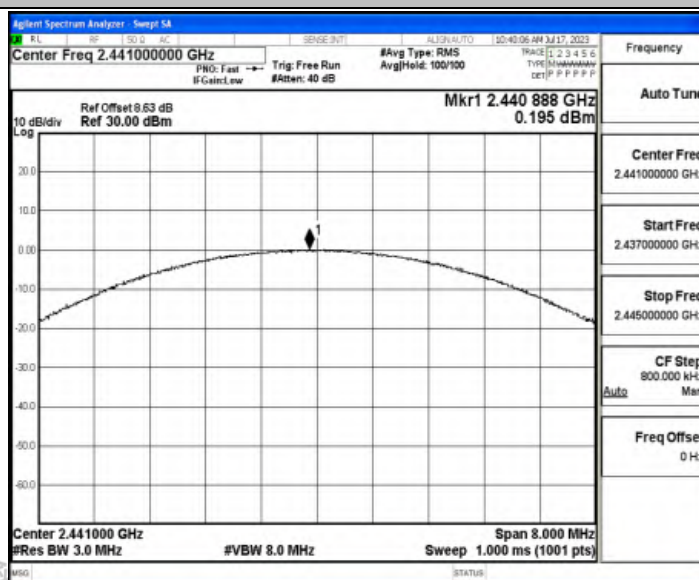
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3DH5_Ant1_2441



3DH5_Ant1_2480

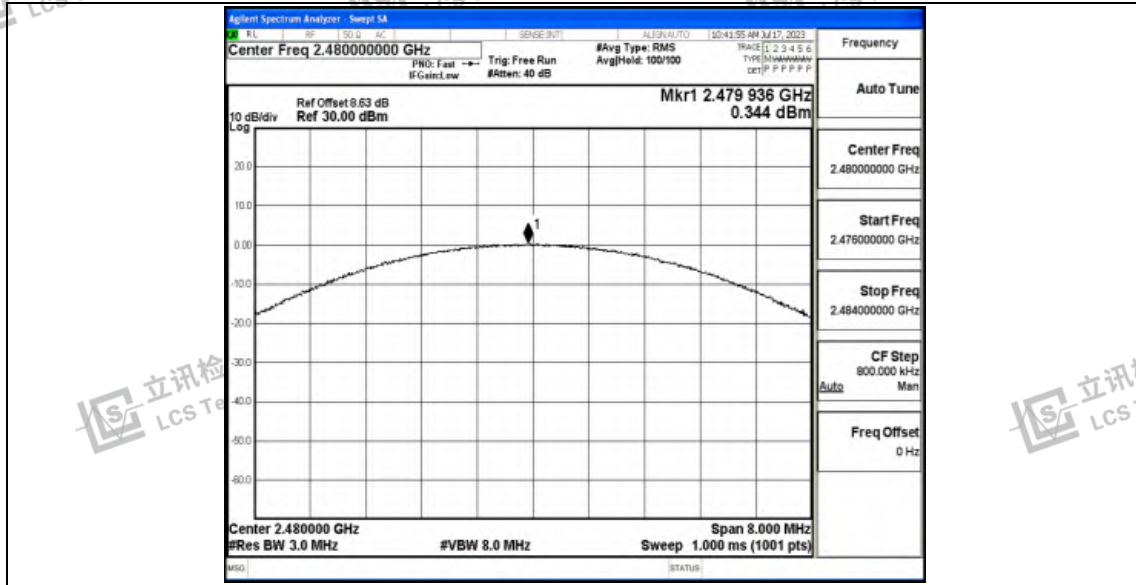


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A.3 Carrier frequency separation

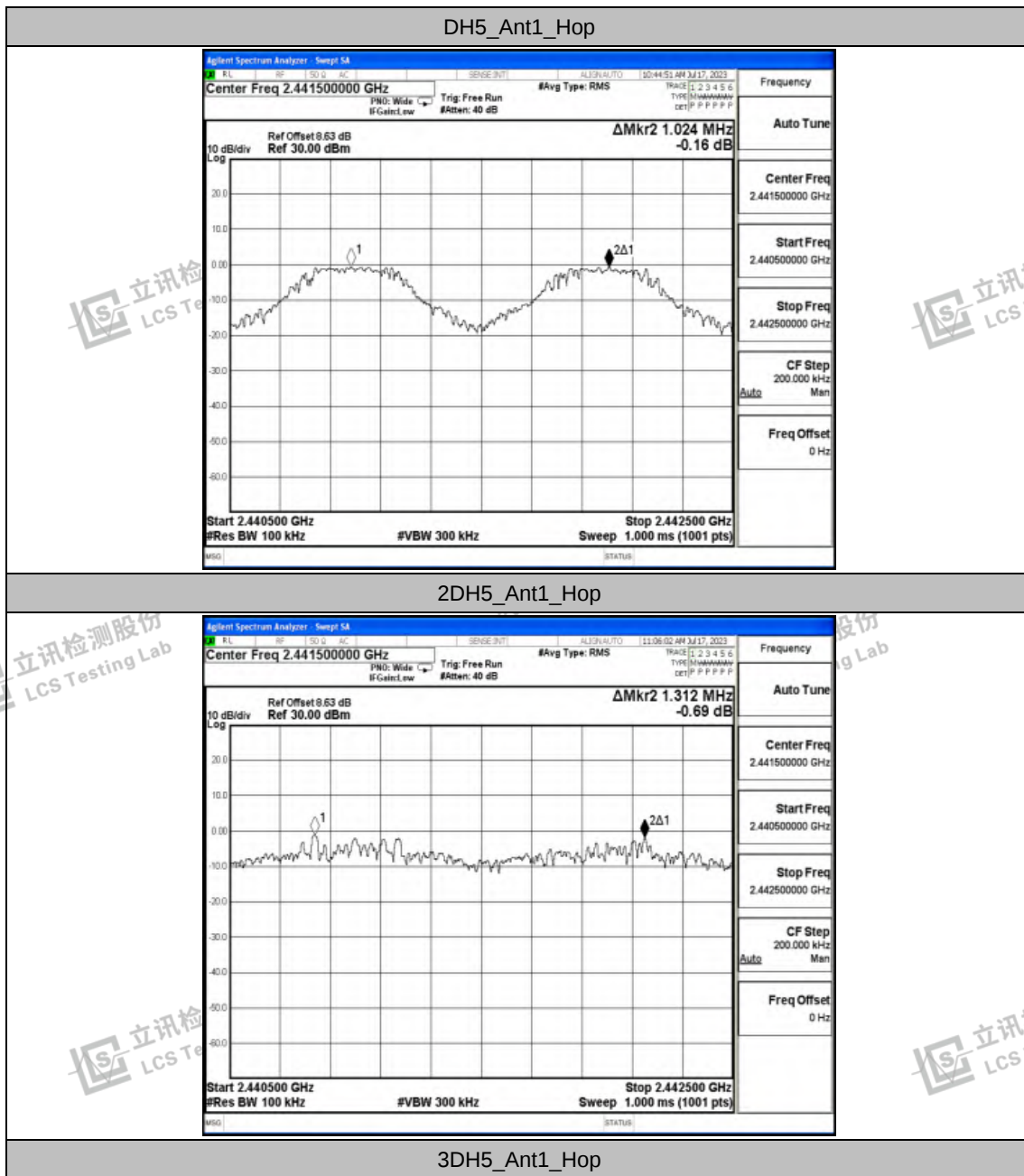
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.692	PASS
2DH5	Ant1	Hop	1.312	≥ 0.894	PASS
3DH5	Ant1	Hop	1.152	≥ 0.874	PASS





Test Graphs

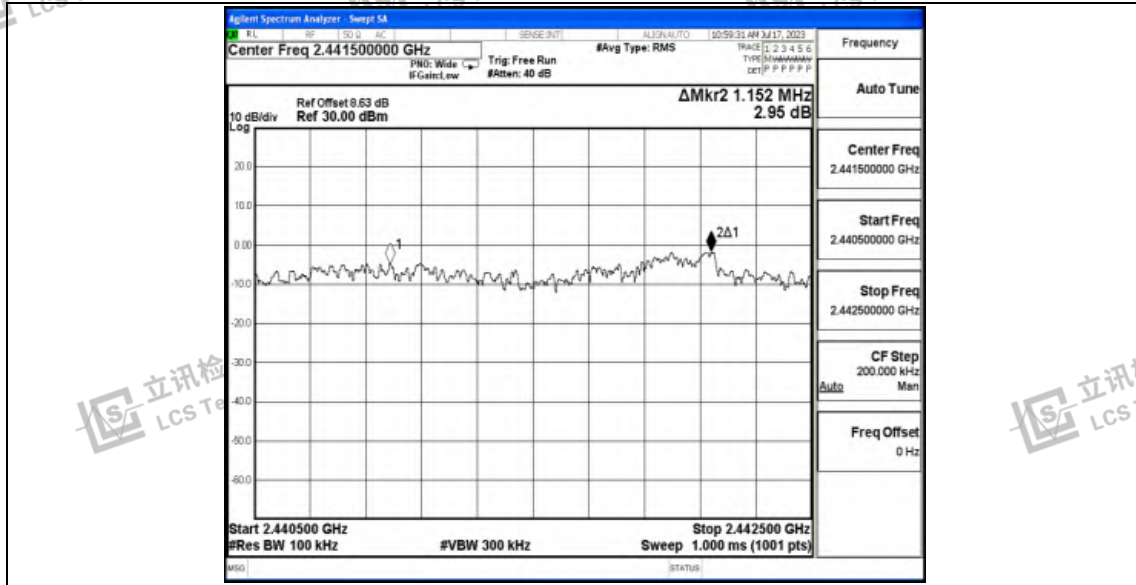


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A.4 Time of occupancy

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	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS



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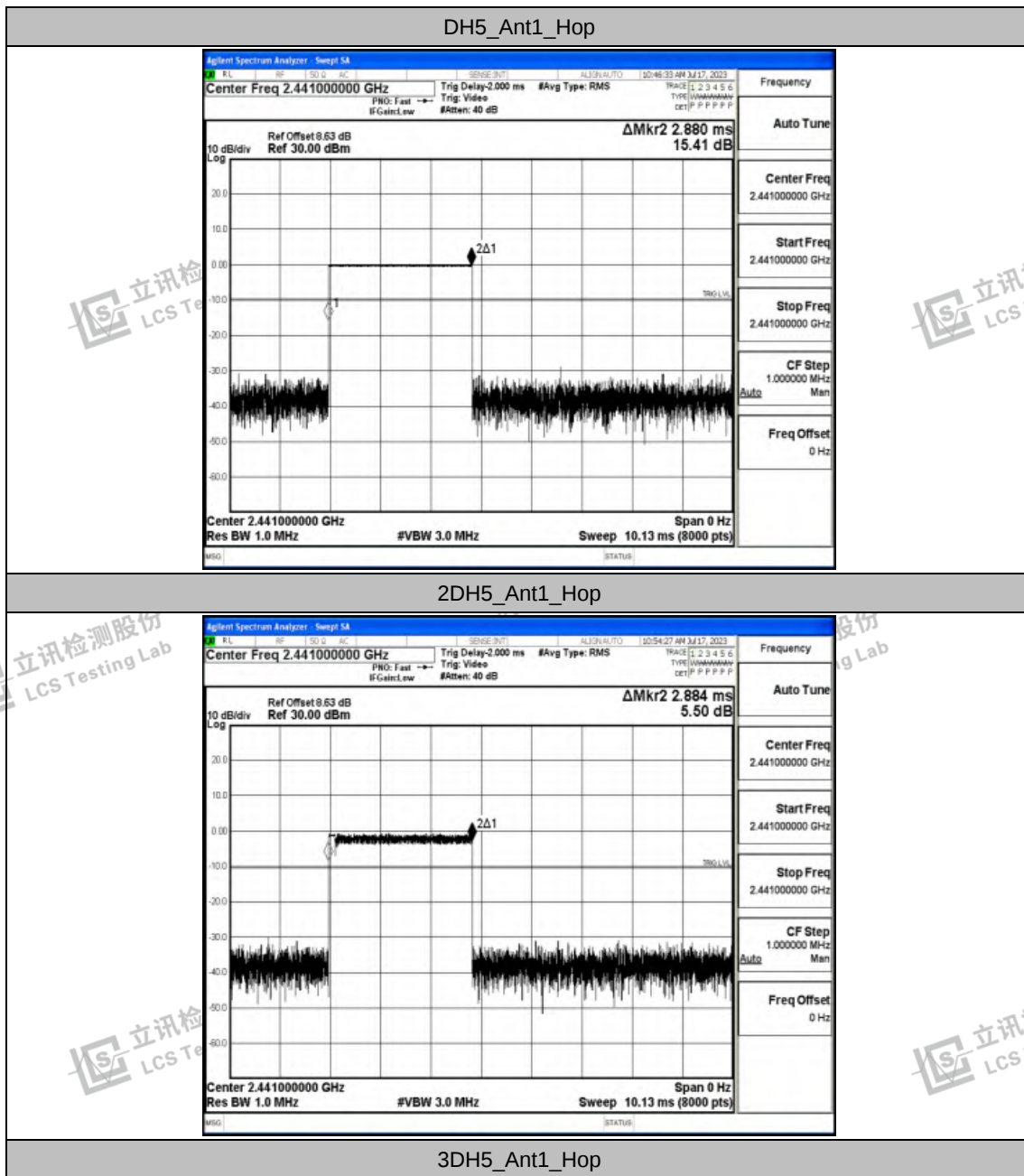
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs

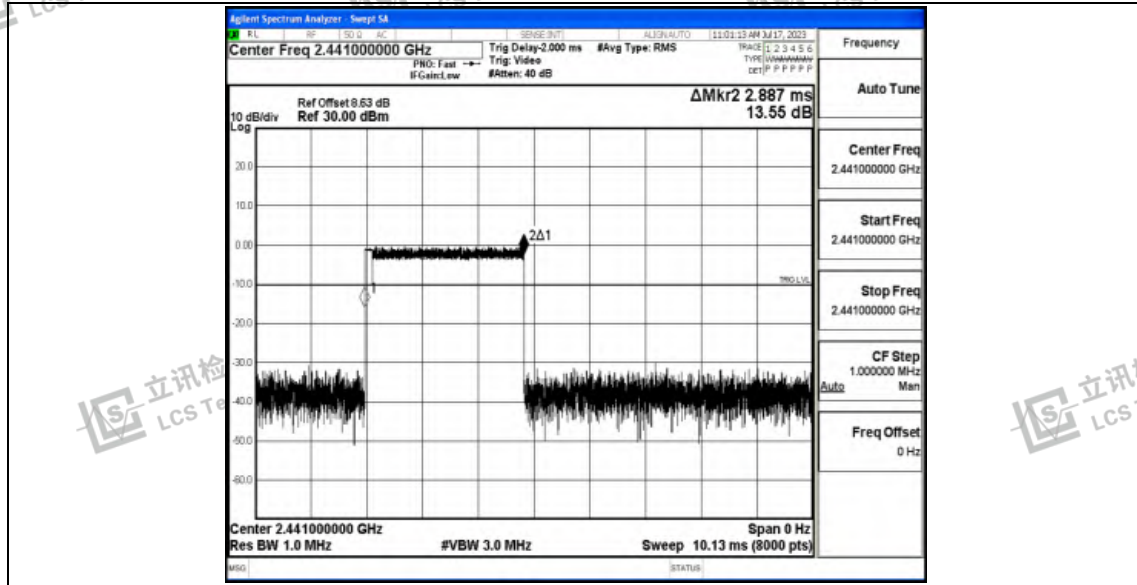


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A.5 Number of hopping channels

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



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Test Graphs

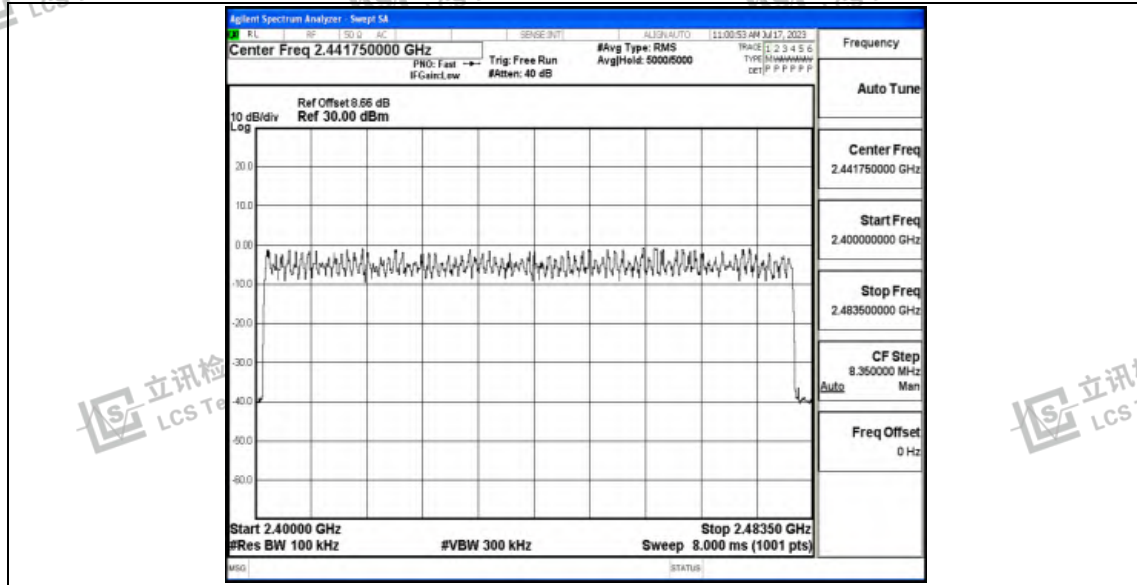


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.59	-49.93	≤ -20.59	PASS
		High	2480	-0.34	-48.87	≤ -20.34	PASS
		Low	Hop_2402	-1.22	-49.24	≤ -21.22	PASS
		High	Hop_2480	-1.42	-46.72	≤ -21.42	PASS
2DH5	Ant1	Low	2402	-6.29	-50.71	≤ -26.29	PASS
		High	2480	-4.95	-48.93	≤ -24.95	PASS
		Low	Hop_2402	-5.34	-49.47	≤ -25.34	PASS
		High	Hop_2480	-3.13	-47.08	≤ -23.13	PASS
3DH5	Ant1	Low	2402	-1.25	-49.63	≤ -21.25	PASS
		High	2480	-5.26	-49.68	≤ -25.26	PASS
		Low	Hop_2402	-1.81	-49.05	≤ -21.81	PASS
		High	Hop_2480	-0.94	-47.81	≤ -20.94	PASS



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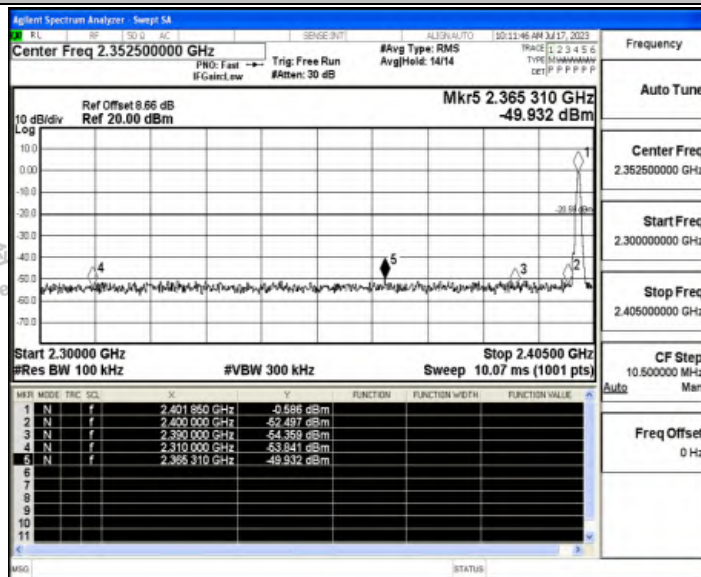
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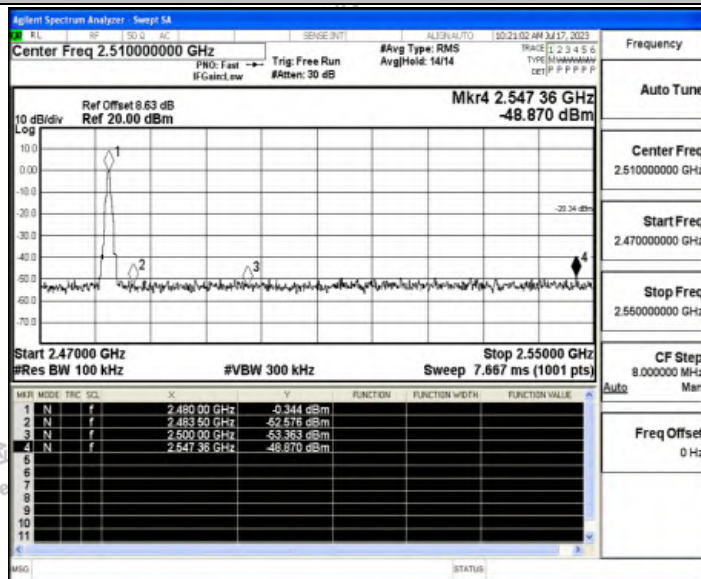


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

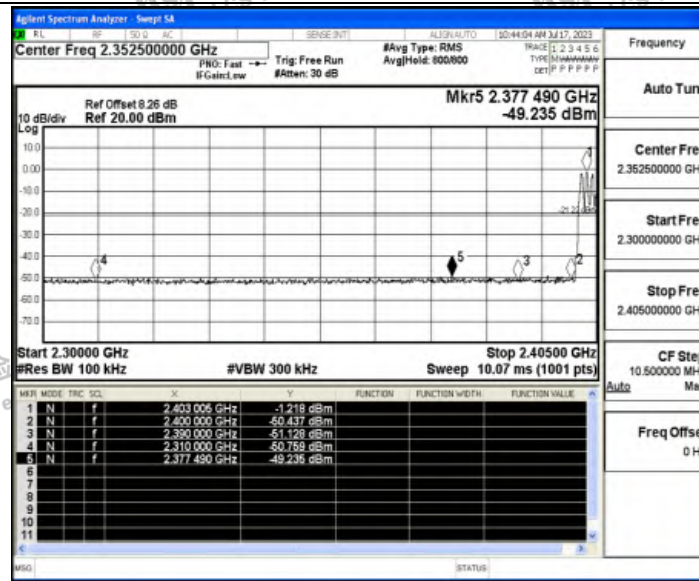


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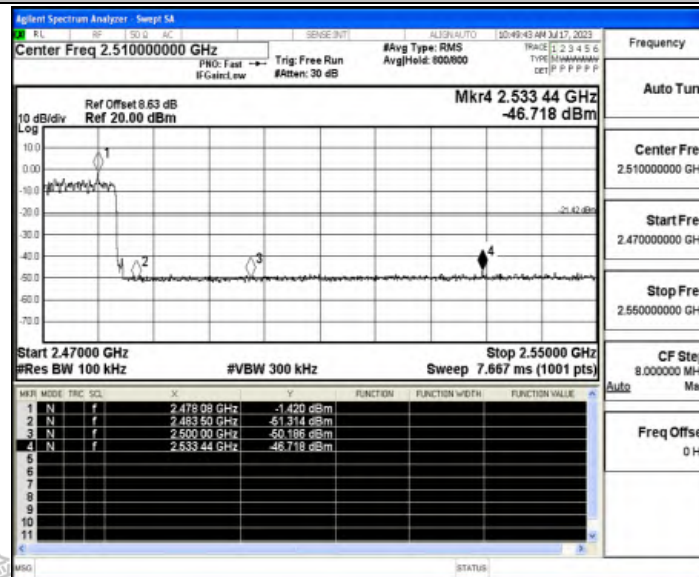
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

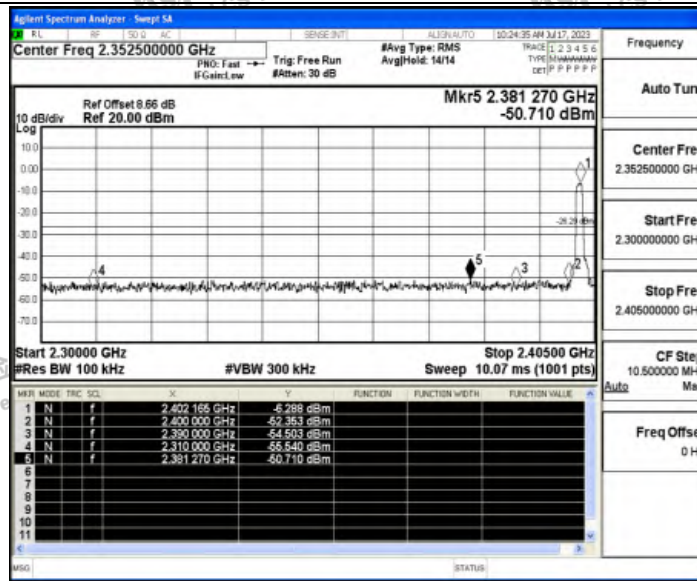


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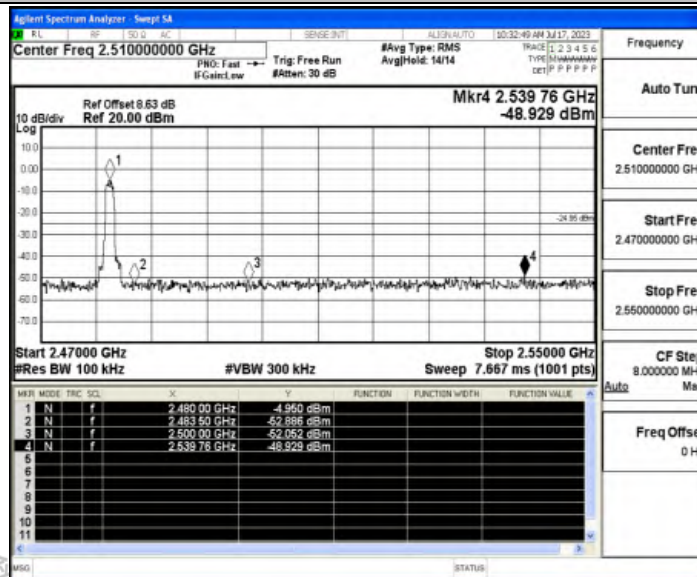
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

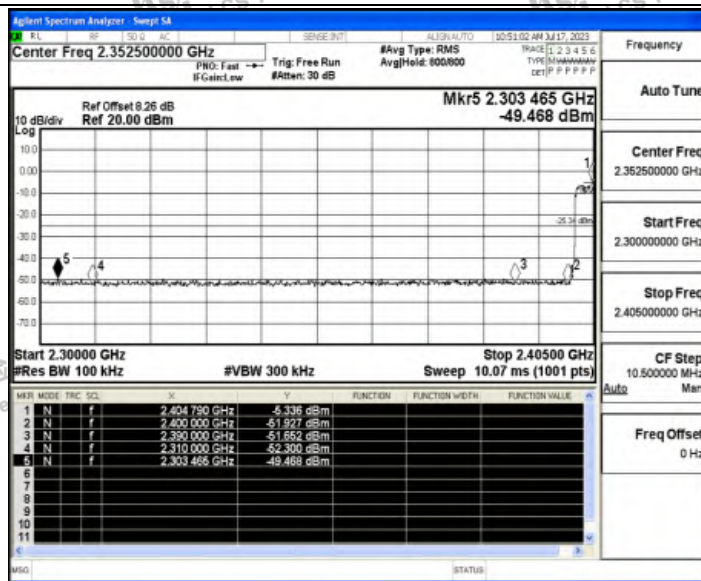


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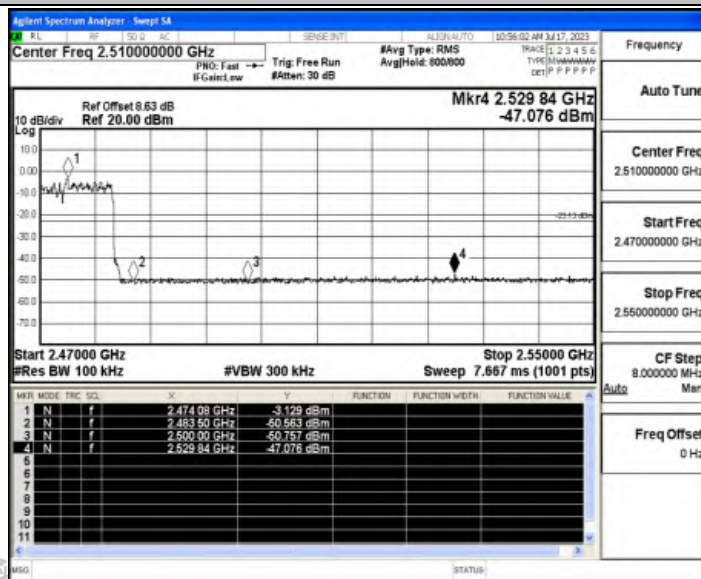
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

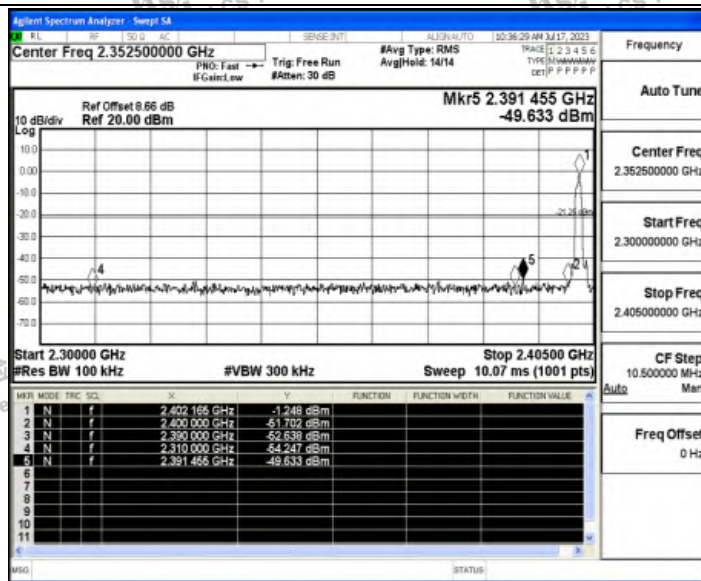


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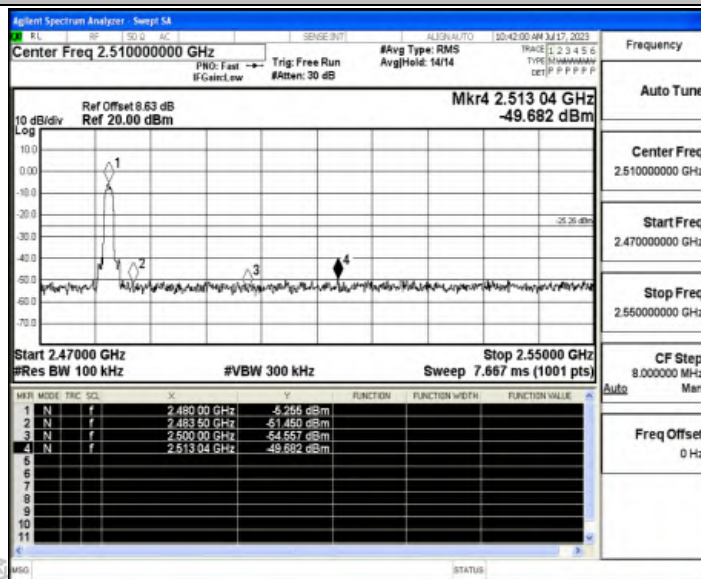
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

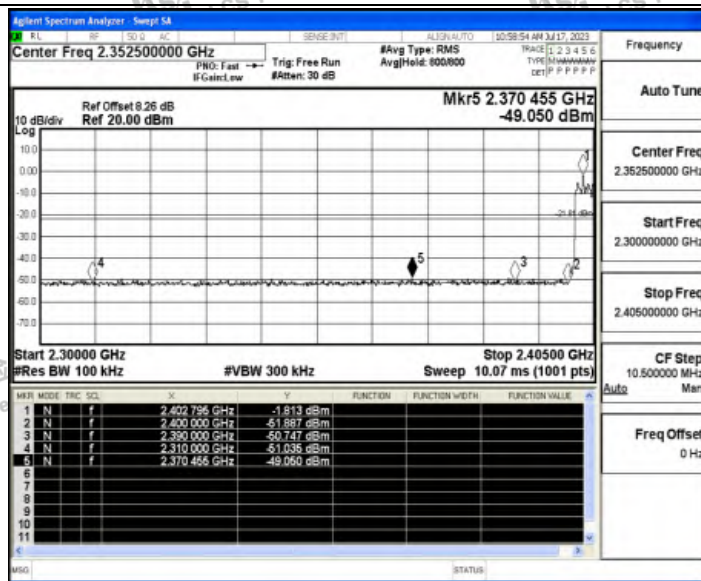


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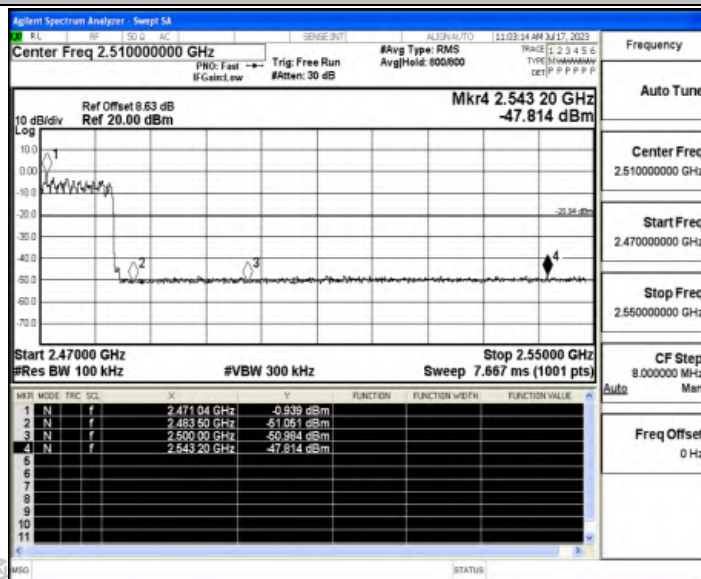
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3DH5_Ant1_High_Hop_2480



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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	-0.96	-0.96	---	PASS
			30~1000	-0.96	-60.64	≤-20.96	PASS
			1000~26500	-0.96	-46.63	≤-20.96	PASS
		2441	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-60.98	≤-21.06	PASS
			1000~26500	-1.06	-46.79	≤-21.06	PASS
		2480	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-60.89	≤-20.85	PASS
			1000~26500	-0.85	-46.62	≤-20.85	PASS
2DH5	Ant1	2402	Reference	-4.92	-4.92	---	PASS
			30~1000	-4.92	-60.54	≤-24.92	PASS
			1000~26500	-4.92	-47.06	≤-24.92	PASS
		2441	Reference	-4.83	-4.83	---	PASS
			30~1000	-4.83	-60.97	≤-24.83	PASS
			1000~26500	-4.83	-46.78	≤-24.83	PASS
		2480	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-59.74	≤-24.65	PASS
			1000~26500	-4.65	-45.65	≤-24.65	PASS
3DH5	Ant1	2402	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-60.69	≤-22.21	PASS
			1000~26500	-2.21	-46.71	≤-22.21	PASS
		2441	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-60.51	≤-25	PASS
			1000~26500	-5.00	-47.03	≤-25	PASS
		2480	Reference	-4.81	-4.81	---	PASS
			30~1000	-4.81	-59.96	≤-24.81	PASS
			1000~26500	-4.81	-46.04	≤-24.81	PASS



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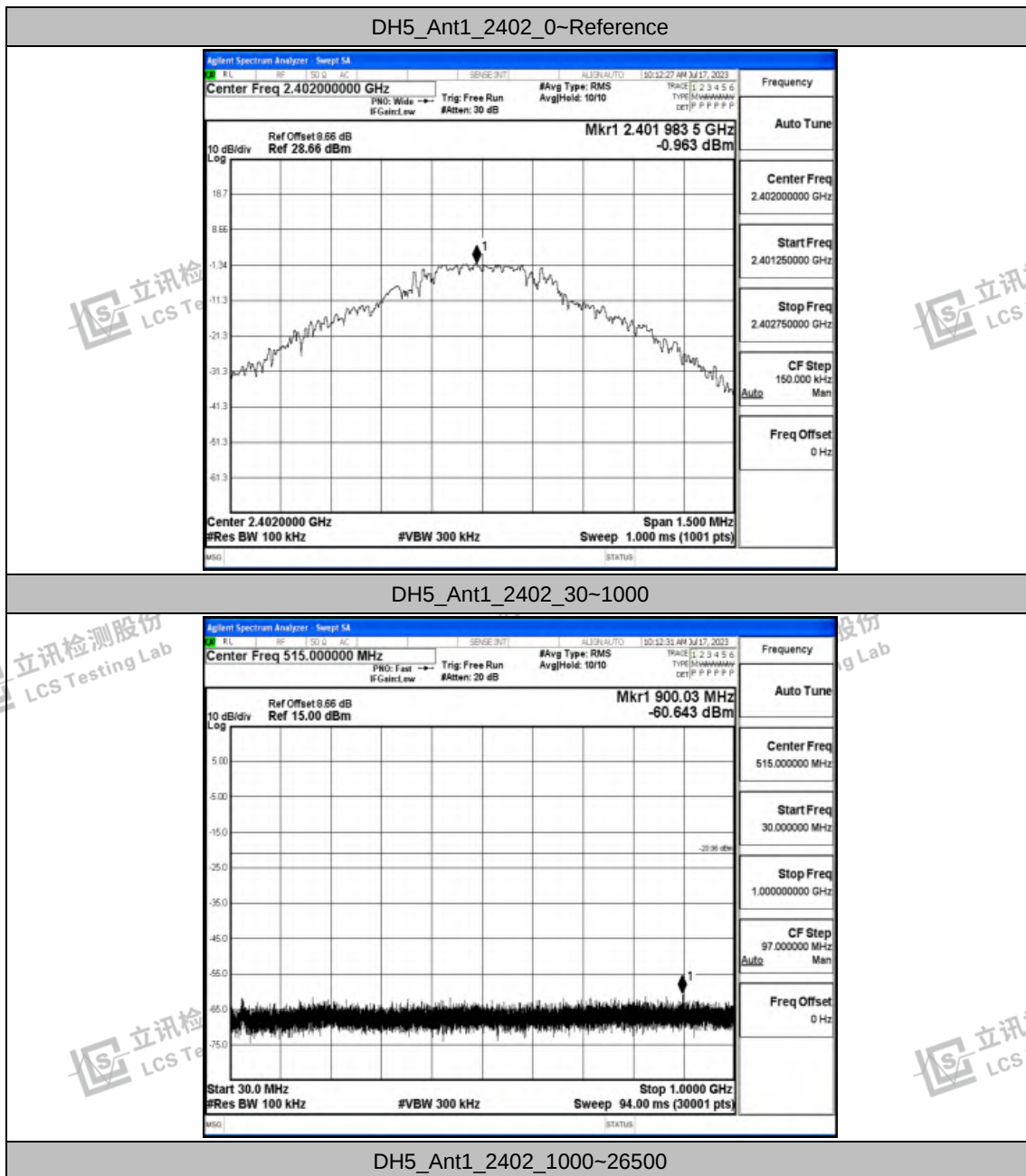
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Test Graphs

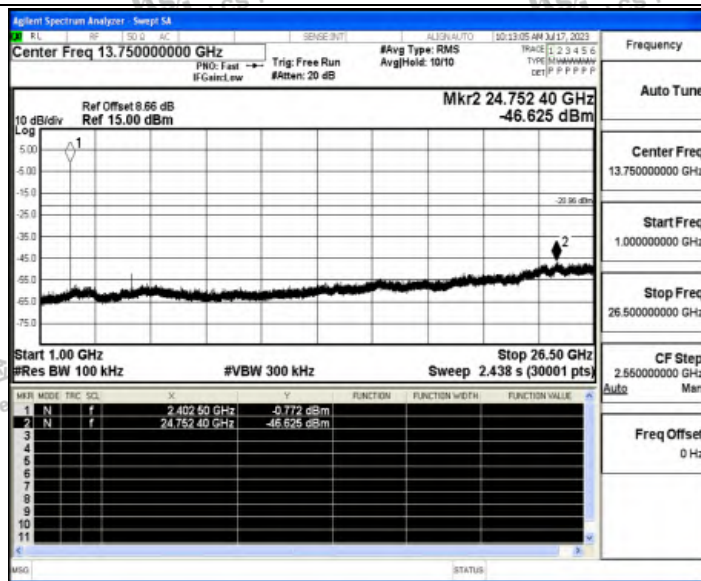


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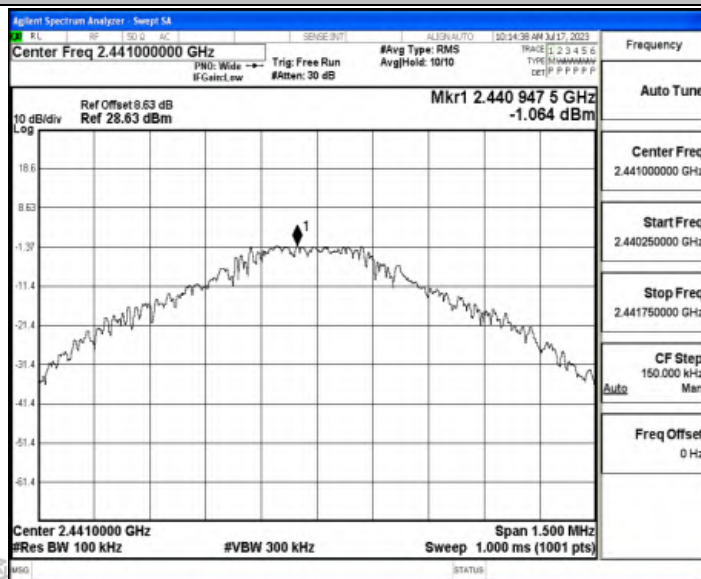
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DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000

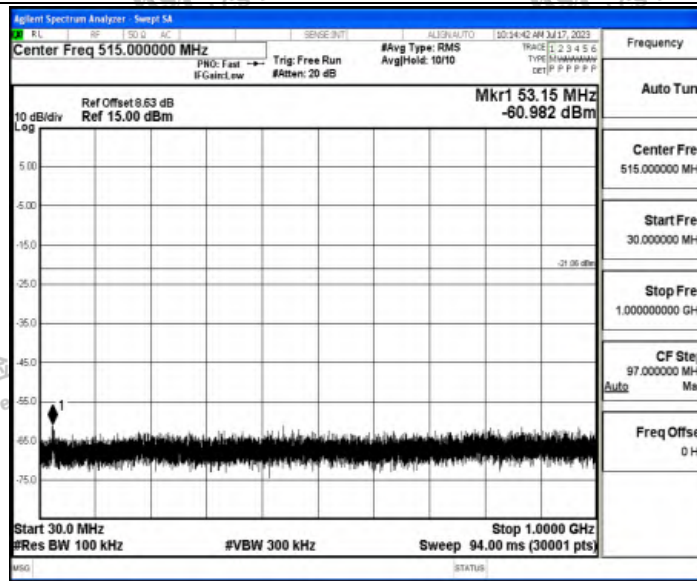


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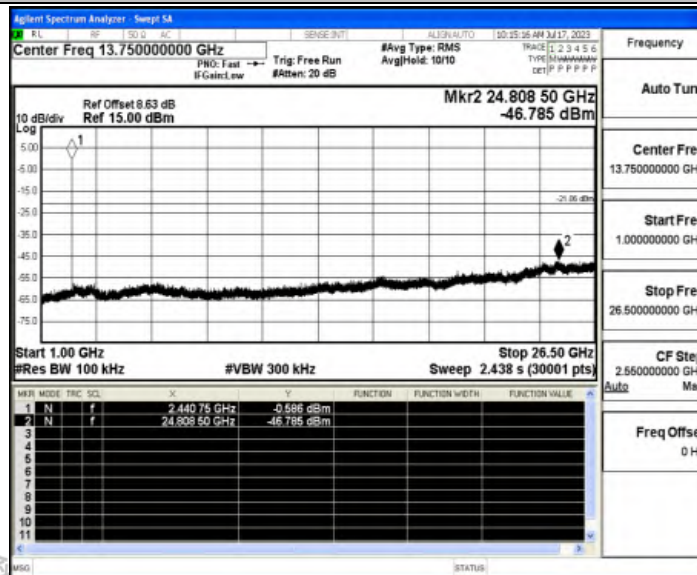
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0-Reference

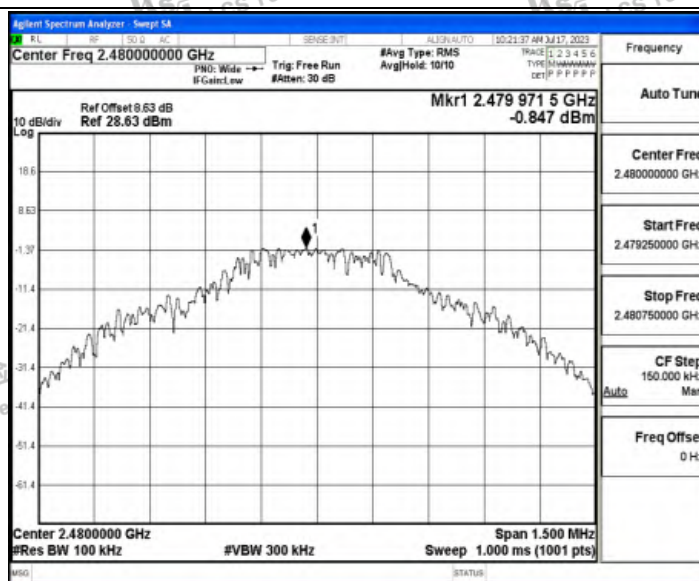


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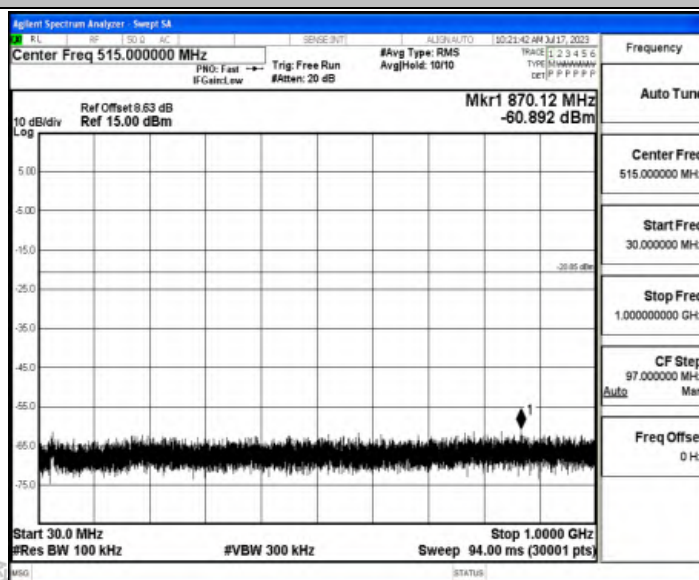
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

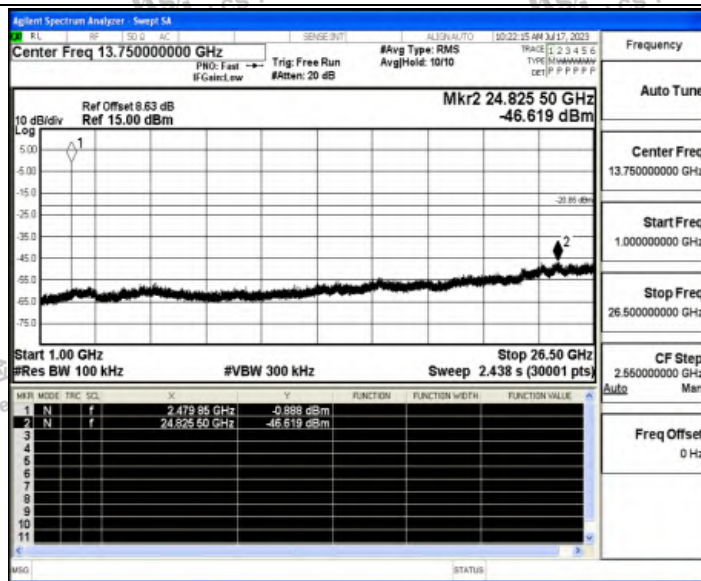


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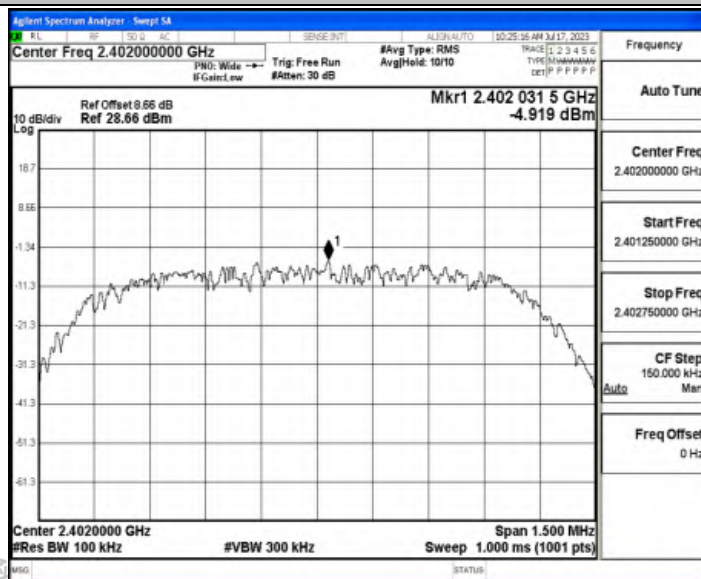
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

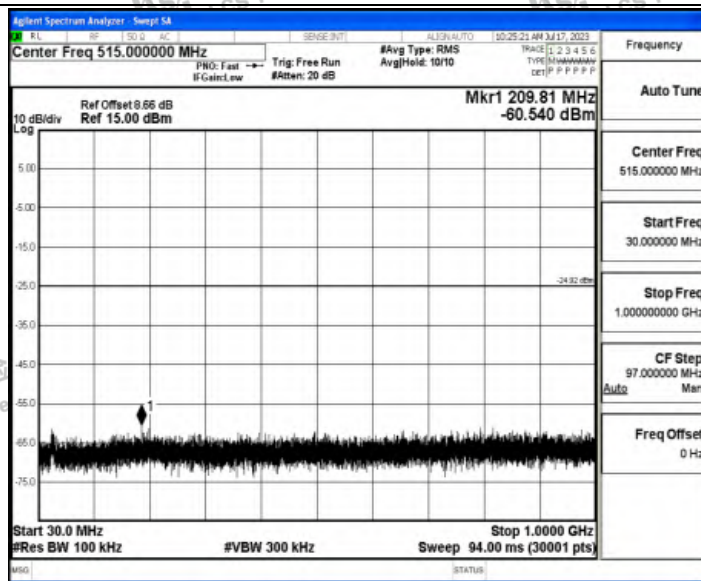


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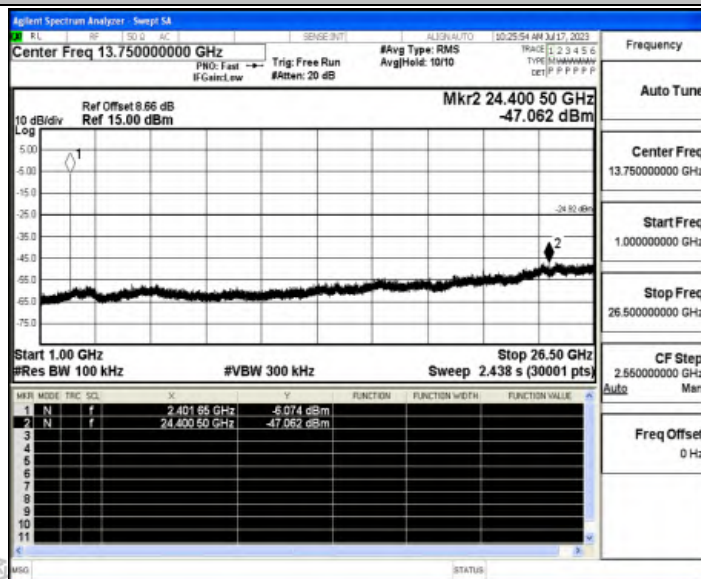
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

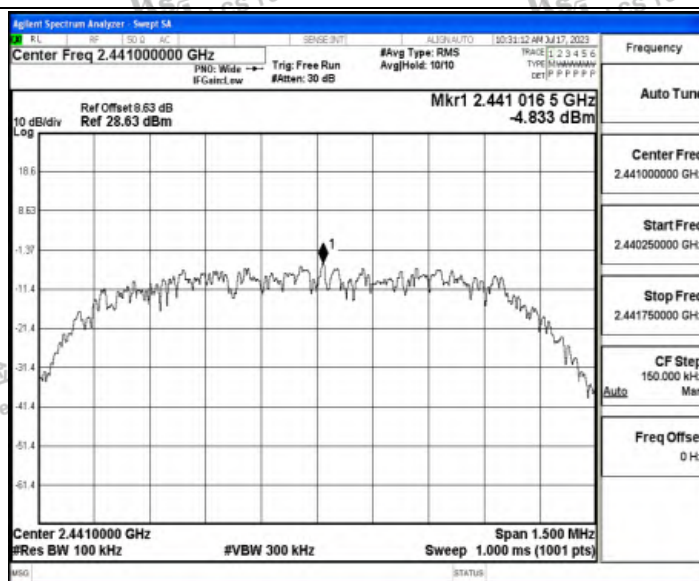


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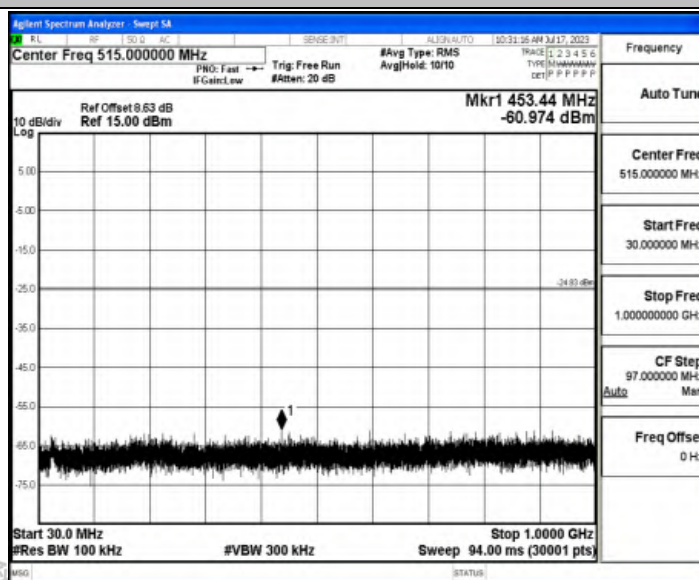
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

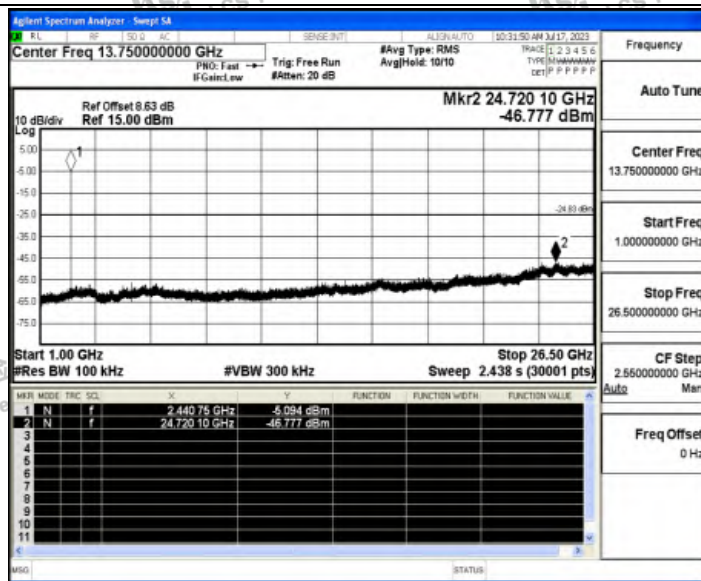


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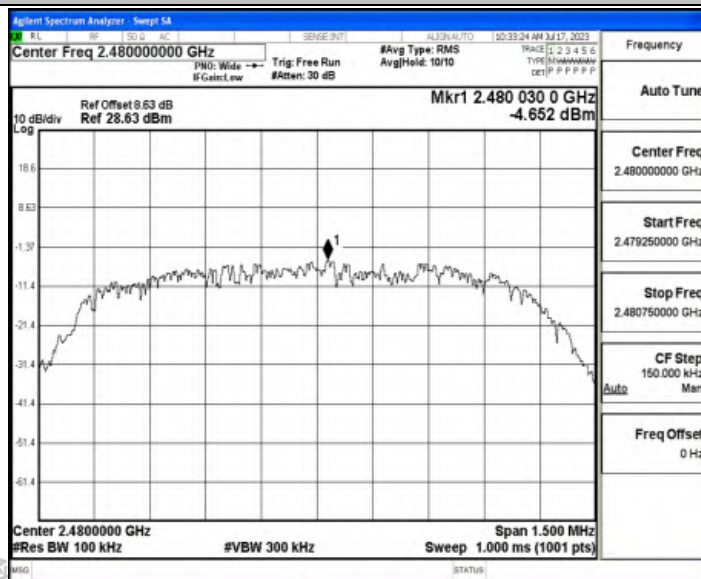
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

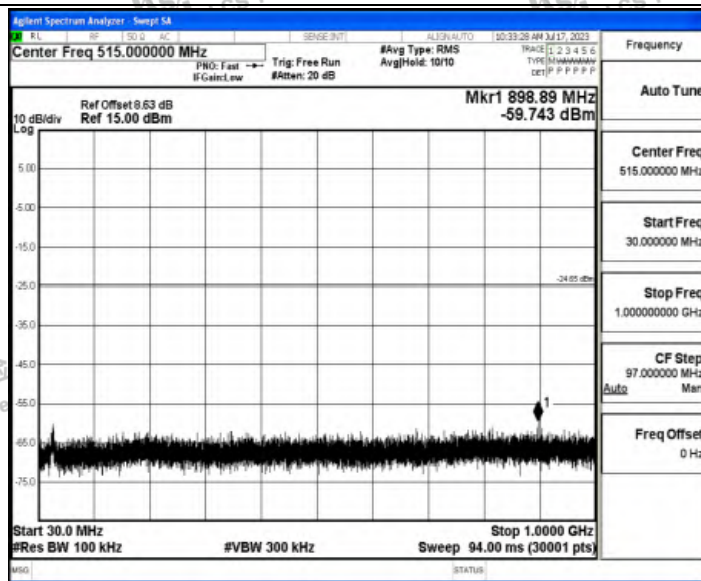


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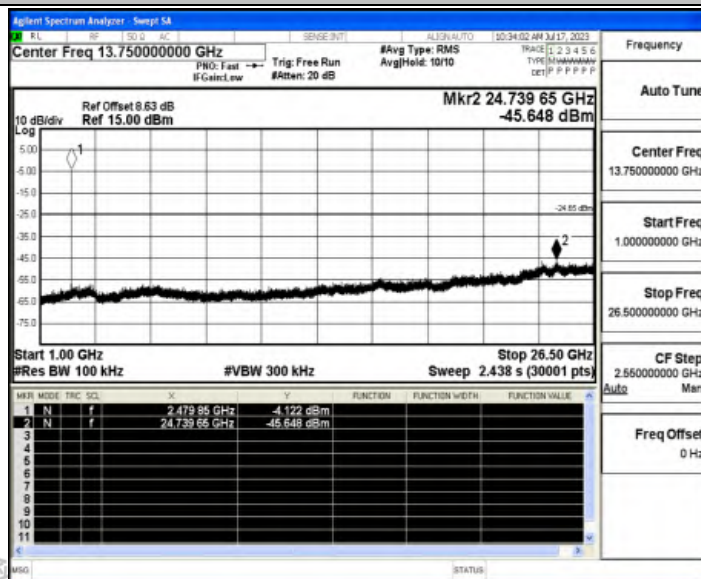
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

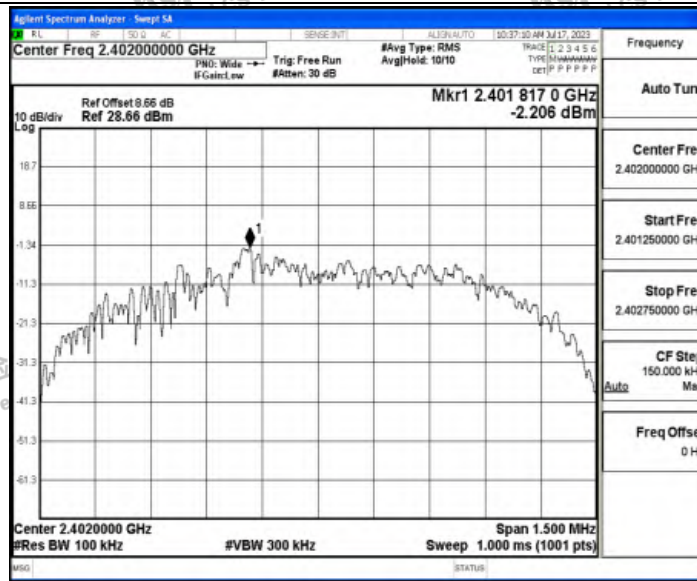


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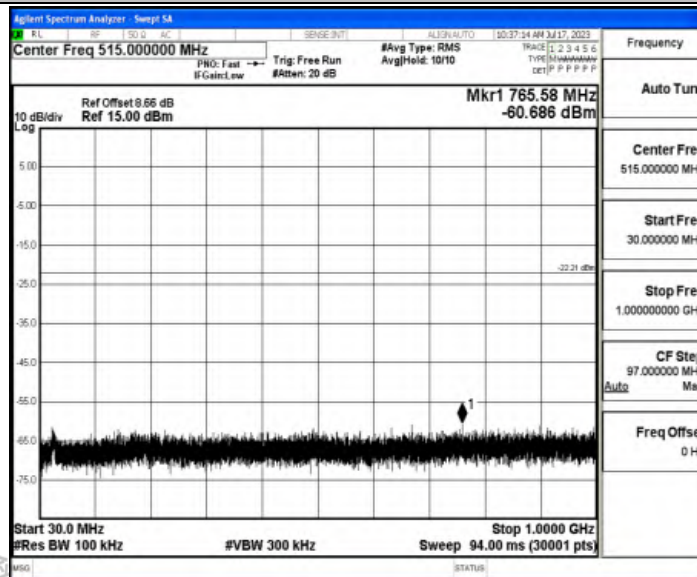
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

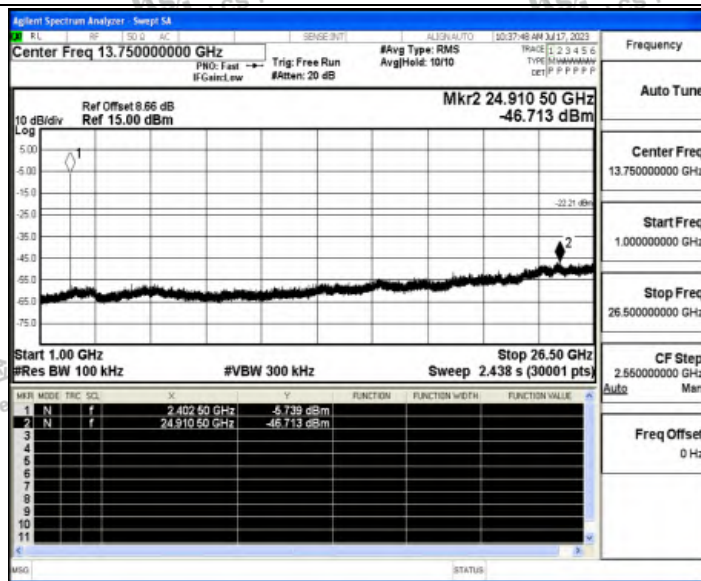


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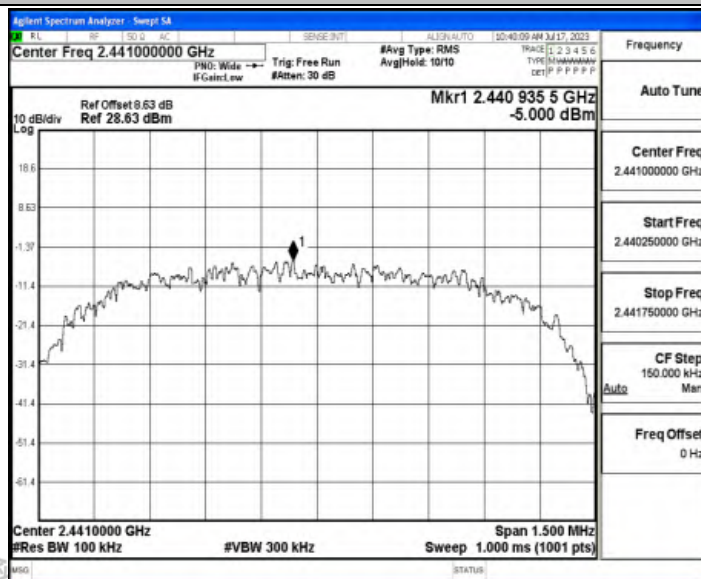
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

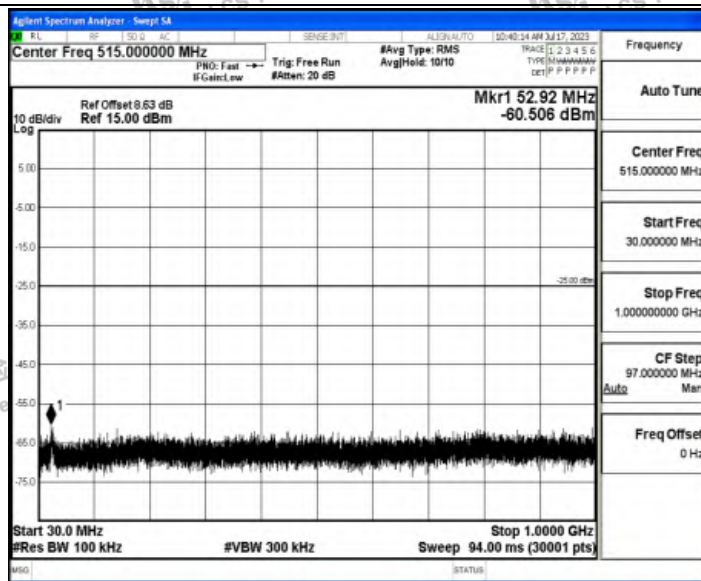


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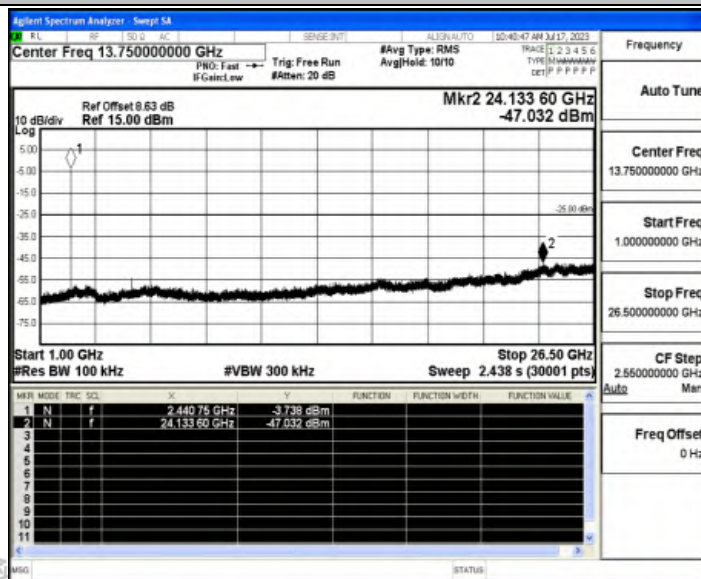
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

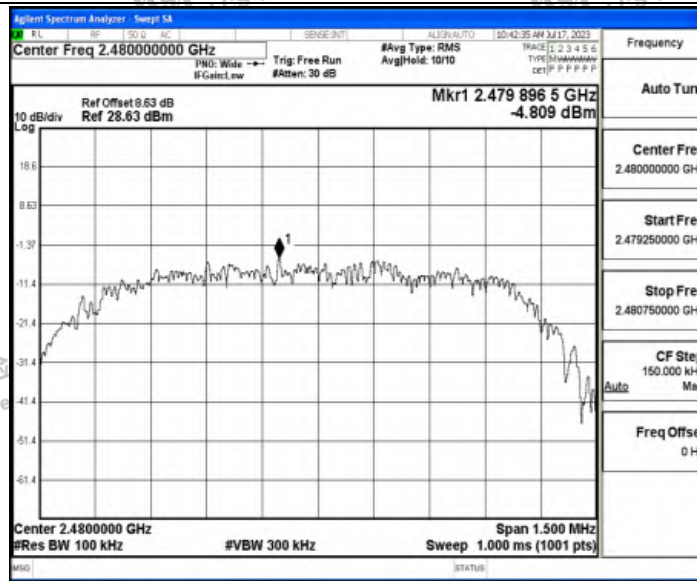


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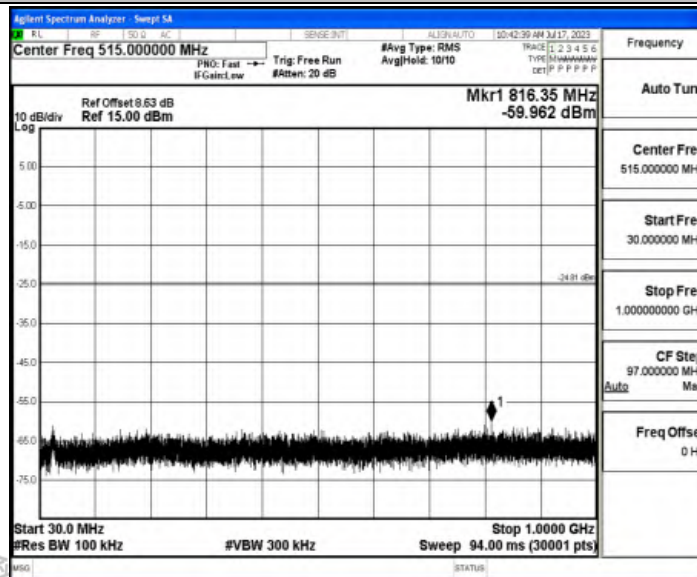
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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

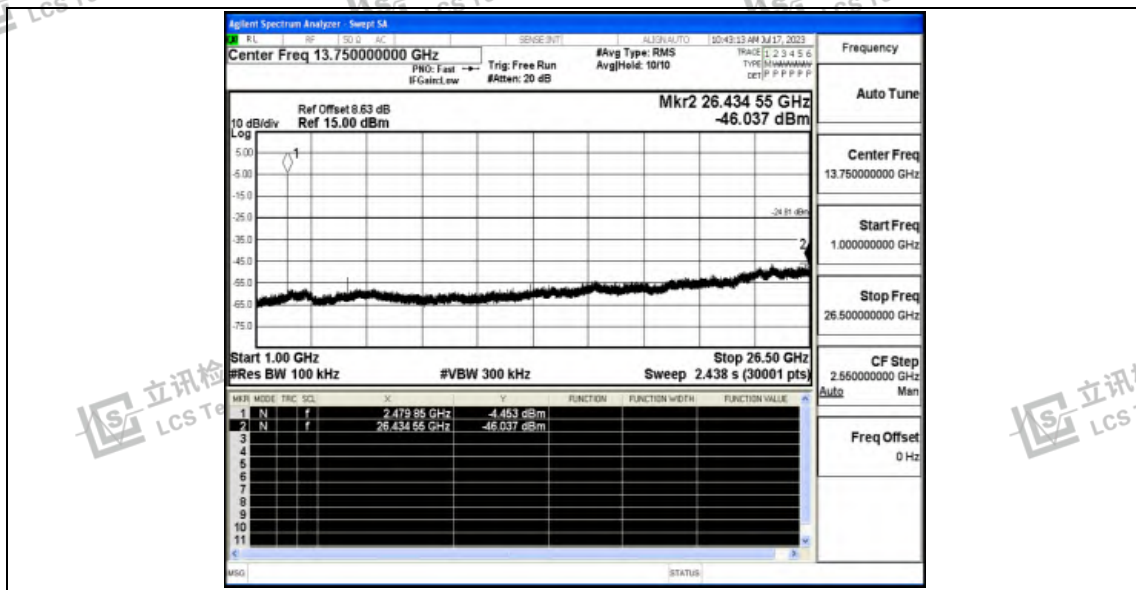


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A.8 Emissions in Restricted Bands

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	-48.14	≤-41.20	47.06	≤54	PASS
				AV	2374.970	-47.61	≤-41.20	47.59	≤54	PASS
				AV	2390.000	-47.77	≤-41.20	47.43	≤54	PASS
				Peak	2310.000	-43.6	≤-21.20	51.60	≤74	PASS
				Peak	2367.725	-38.63	≤-21.20	56.57	≤74	PASS
				Peak	2390.000	-43.2	≤-21.20	52.00	≤74	PASS
		High	2480	AV	2483.500	-47.03	≤-41.20	48.17	≤54	PASS
				AV	2483.520	-47.03	≤-41.20	48.17	≤54	PASS
				AV	2500.000	-47.18	≤-41.20	48.02	≤54	PASS
				Peak	2483.500	-39.65	≤-21.20	55.55	≤74	PASS
				Peak	2493.040	-37.8	≤-21.20	57.40	≤74	PASS
				Peak	2500.000	-40.99	≤-21.20	54.21	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.91	≤-21.20	55.29	≤74	PASS
				Peak	2328.455	-37.65	≤-21.20	57.55	≤74	PASS
				Peak	2390.000	-39.49	≤-21.20	55.71	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2493.120	-37.21	≤-21.20	57.99	≤74	PASS
				Peak	2500.000	-38.73	≤-21.20	56.47	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.18	≤-41.20	47.02	≤54	PASS
				AV	2388.725	-47.56	≤-41.20	47.64	≤54	PASS
				AV	2390.000	-47.77	≤-41.20	47.43	≤54	PASS
				Peak	2310.000	-43.6	≤-21.20	51.60	≤74	PASS
				Peak	2379.065	-38.96	≤-21.20	56.24	≤74	PASS
				Peak	2390.000	-41.2	≤-21.20	54.00	≤74	PASS
		High	2480	AV	2483.500	-47.16	≤-41.20	48.04	≤54	PASS
				AV	2499.360	-47.04	≤-41.20	48.16	≤54	PASS
				AV	2500.000	-47.17	≤-41.20	48.03	≤54	PASS
				Peak	2483.500	-39.95	≤-21.20	55.25	≤74	PASS
				Peak	2499.600	-38.73	≤-21.20	56.47	≤74	PASS
				Peak	2500.000	-43.2	≤-21.20	52.00	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.99	≤-21.20	55.21	≤74	PASS
				Peak	2333.915	-37.55	≤-21.20	57.65	≤74	PASS
				Peak	2390.000	-38.62	≤-21.20	56.58	≤74	PASS
		High	Hop_24	Peak	2483.500	-38.98	≤-21.20	56.22	≤74	PASS



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3DH5	Ant1		80	Peak	2487.600	-36.66	≤-21.20	58.54	≤74	PASS
				Peak	2500.000	-39.06	≤-21.20	56.14	≤74	PASS
		Low	2402	AV	2310.000	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2382.215	-47.62	≤-41.20	47.58	≤54	PASS
				AV	2390.000	-47.81	≤-41.20	47.39	≤54	PASS
				Peak	2310.000	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2345.255	-38.84	≤-21.20	56.36	≤74	PASS
				Peak	2390.000	-41.62	≤-21.20	53.58	≤74	PASS
		High	2480	AV	2483.500	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2498.320	-47.02	≤-41.20	48.18	≤54	PASS
				AV	2500.000	-47.23	≤-41.20	47.97	≤54	PASS
				Peak	2483.500	-41.28	≤-21.20	53.92	≤74	PASS
				Peak	2490.000	-37.99	≤-21.20	57.21	≤74	PASS
				Peak	2500.000	-39.48	≤-21.20	55.72	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.52	≤-21.20	54.68	≤74	PASS
				Peak	2316.590	-37.43	≤-21.20	57.77	≤74	PASS
				Peak	2390.000	-40.34	≤-21.20	54.86	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.58	≤-21.20	55.62	≤74	PASS
				Peak	2499.840	-36.7	≤-21.20	58.50	≤74	PASS
				Peak	2500.000	-39.41	≤-21.20	55.79	≤74	PASS

Note:

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.



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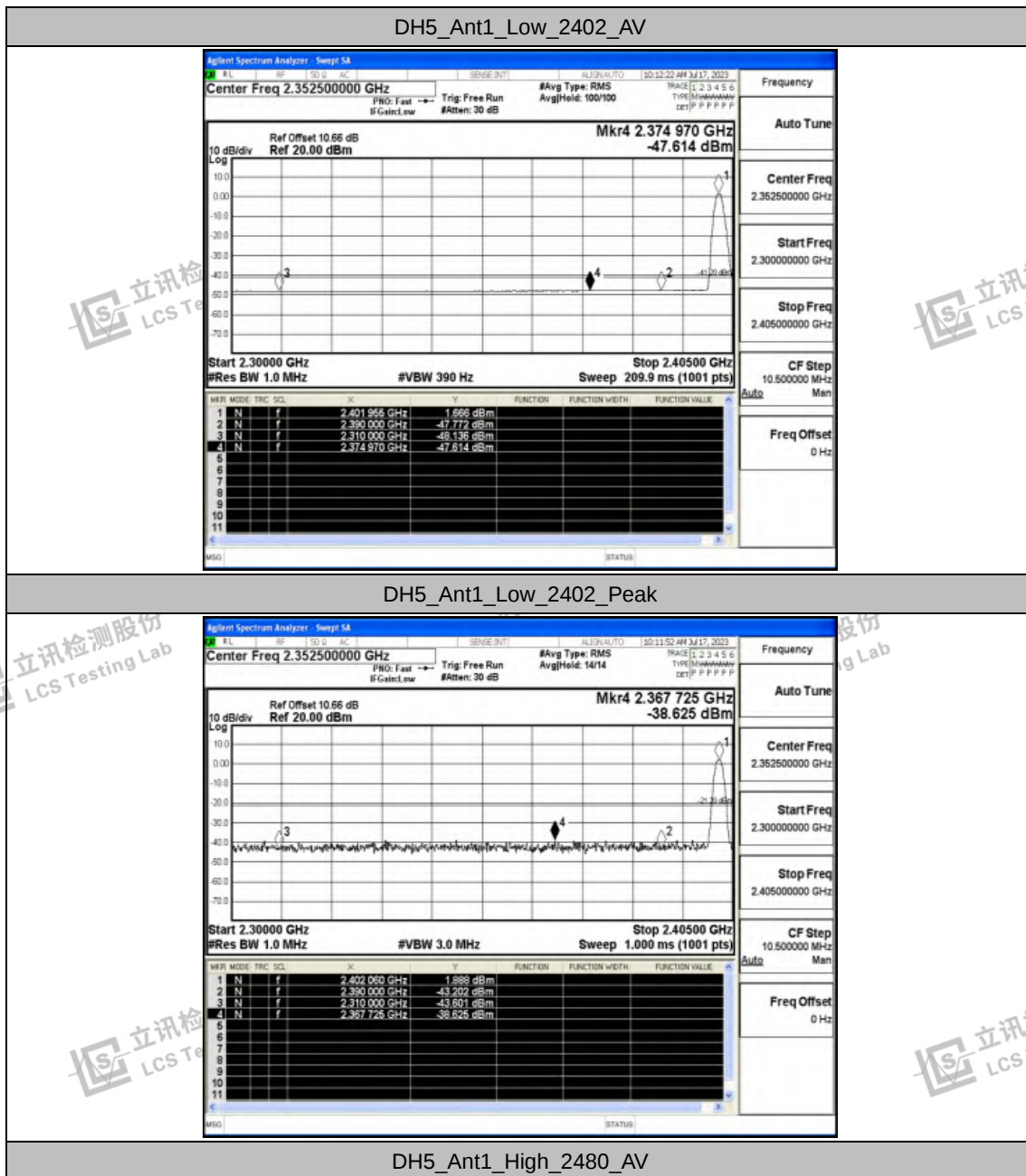
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Test Graphs

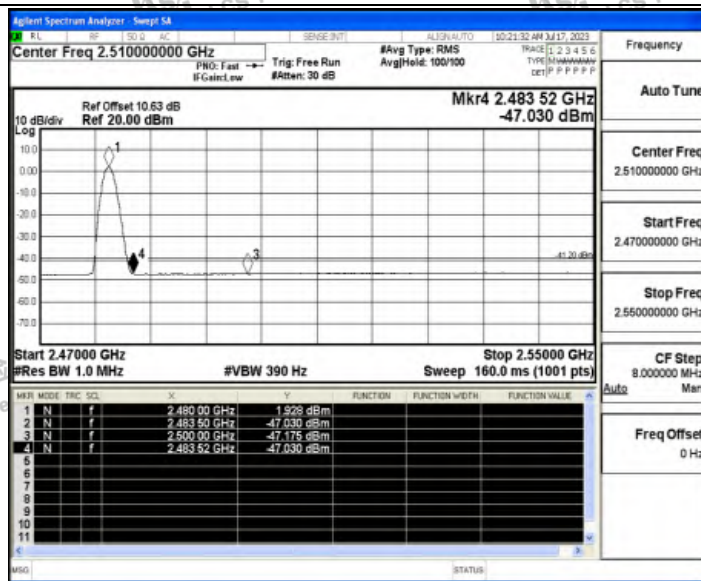


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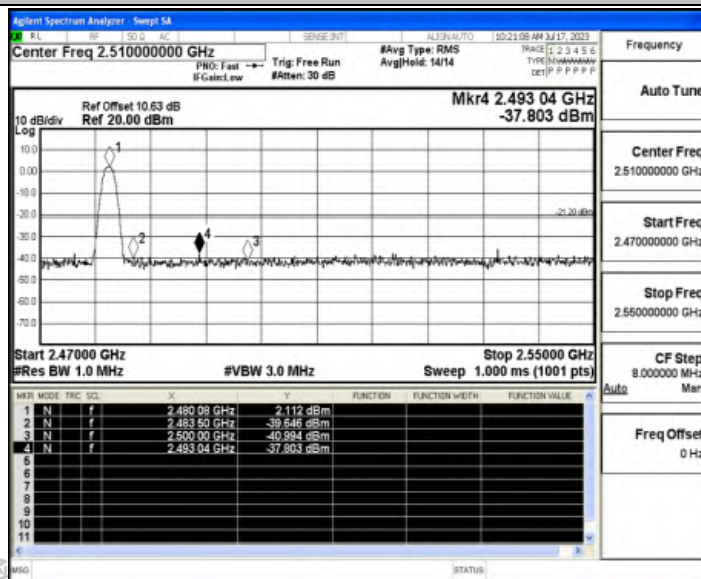
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

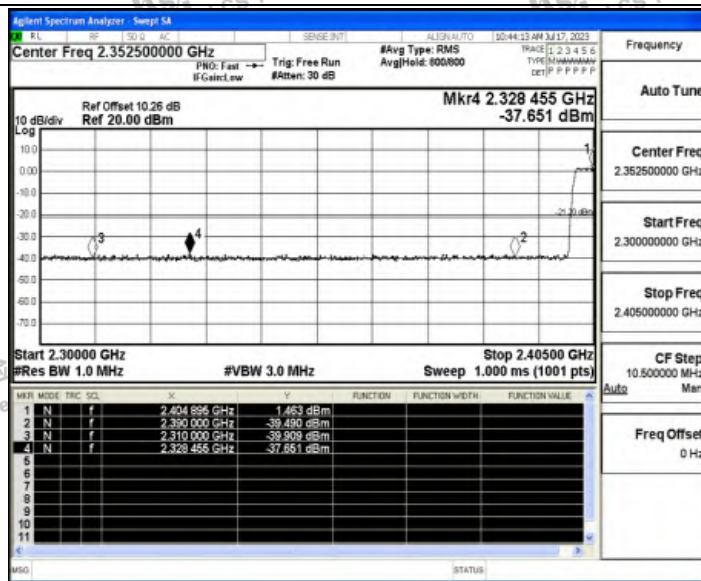


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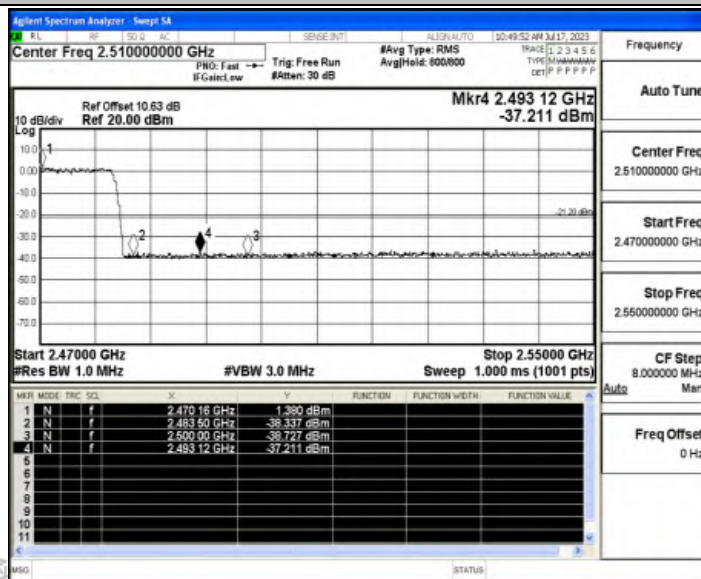
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

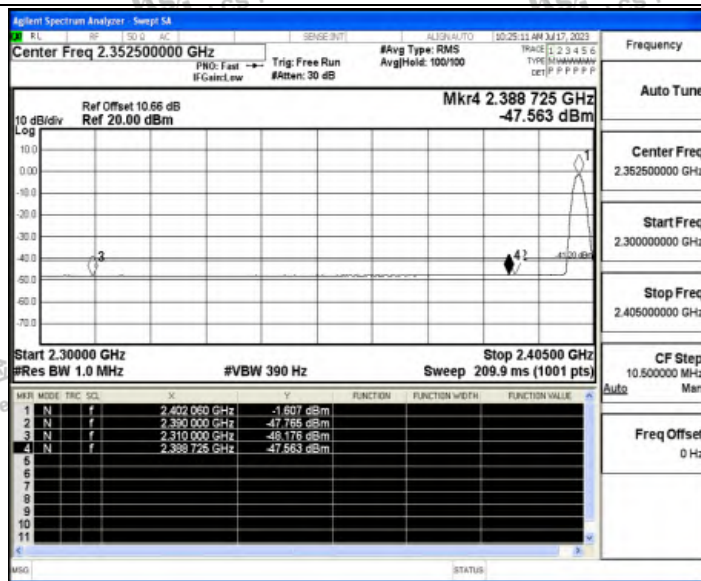


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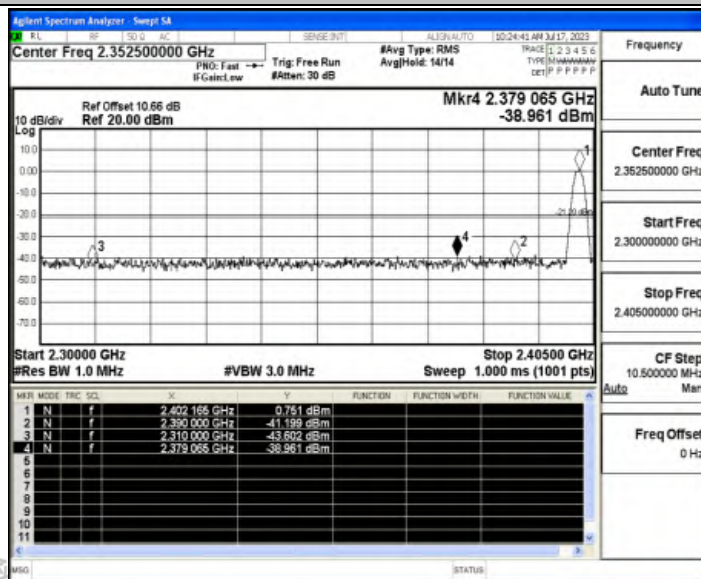
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

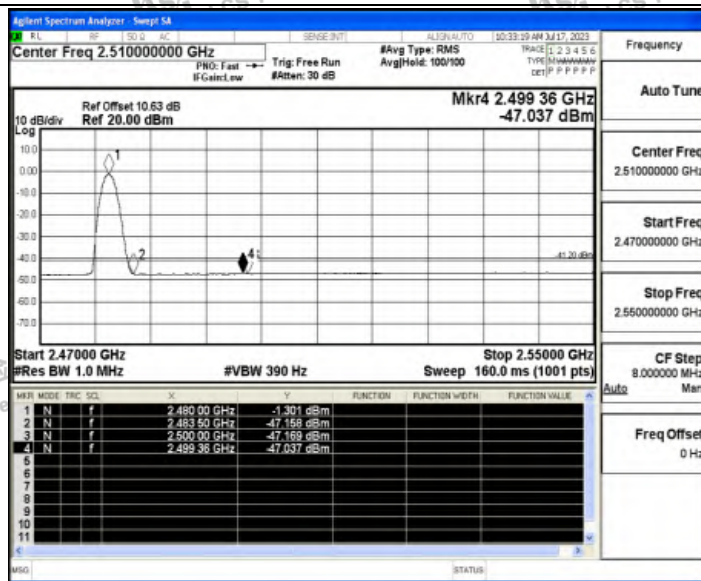


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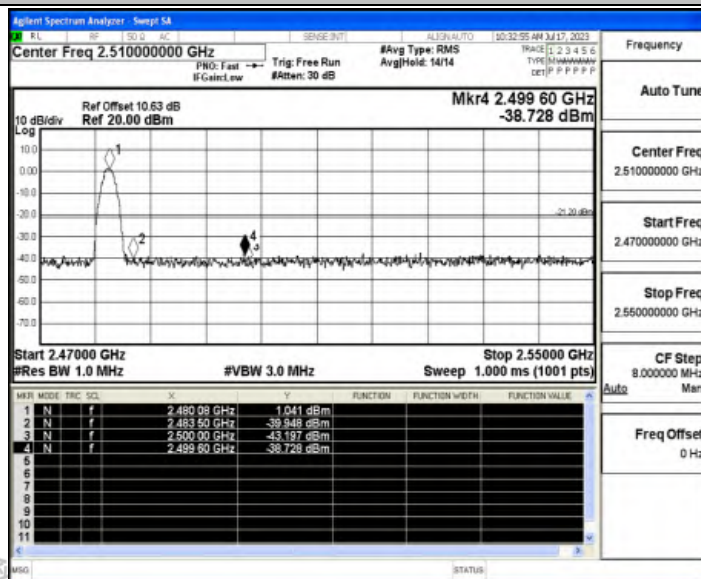
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

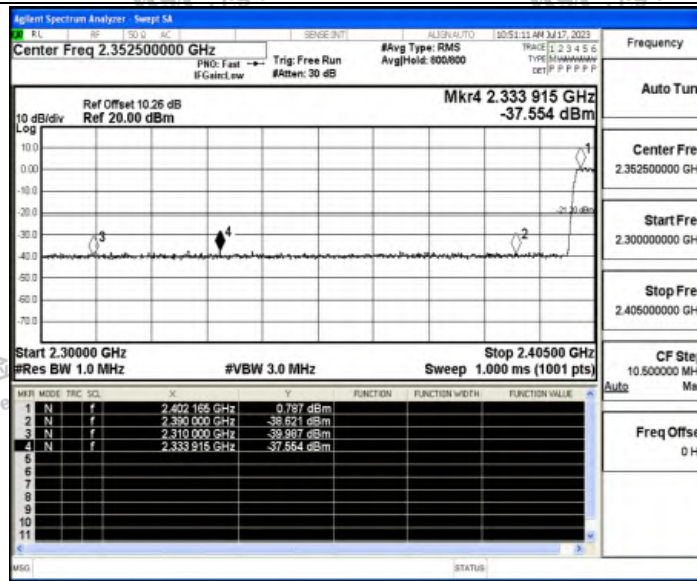


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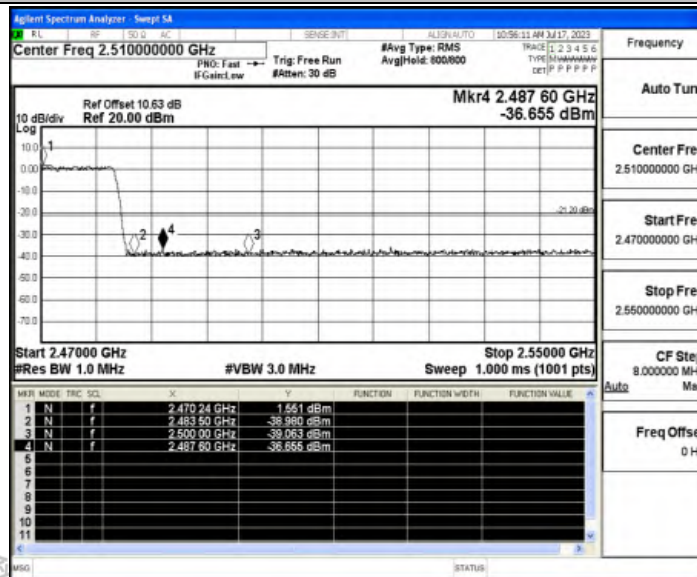
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

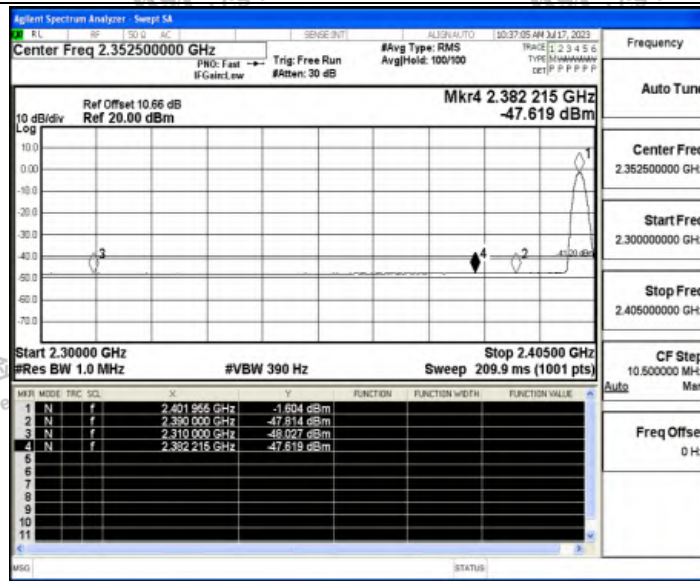


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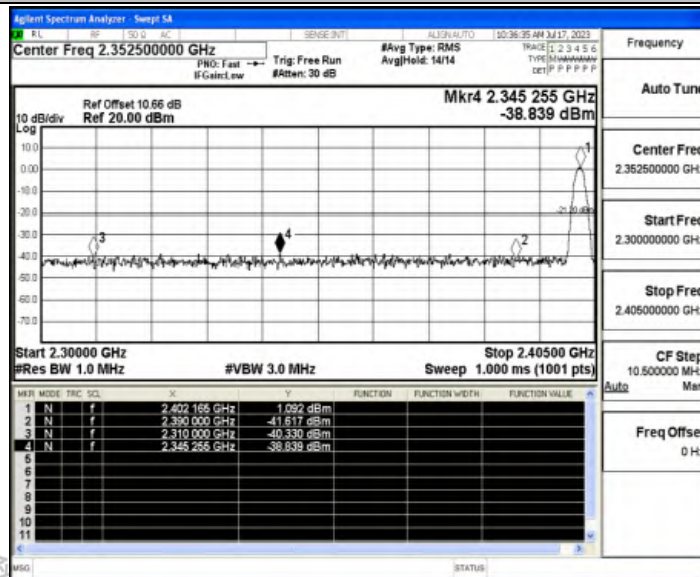
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

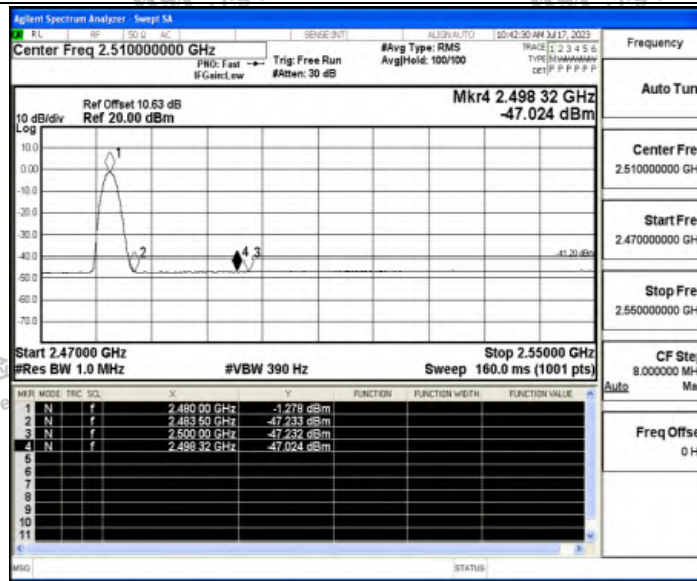


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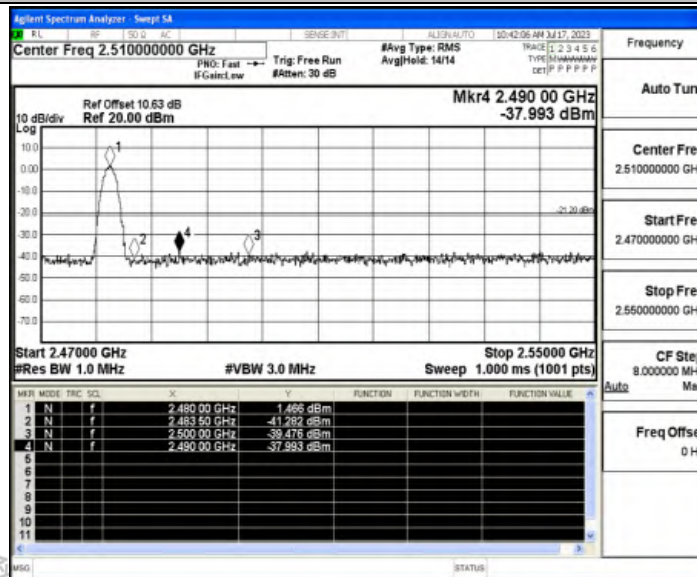
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

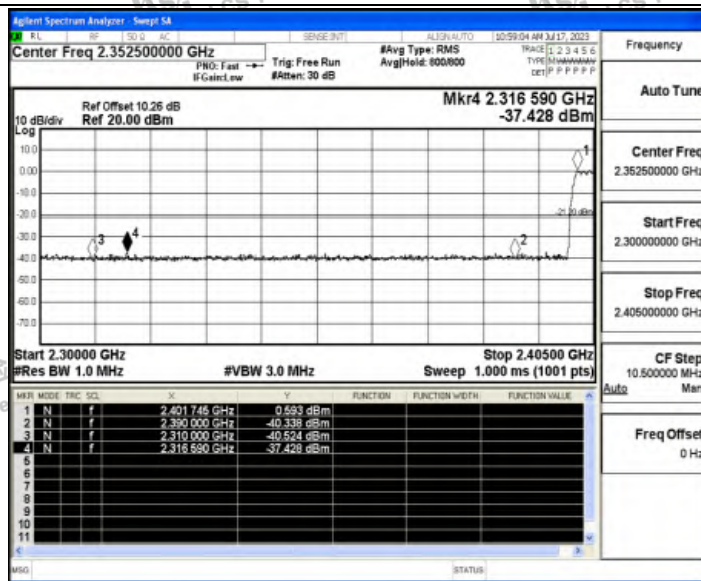


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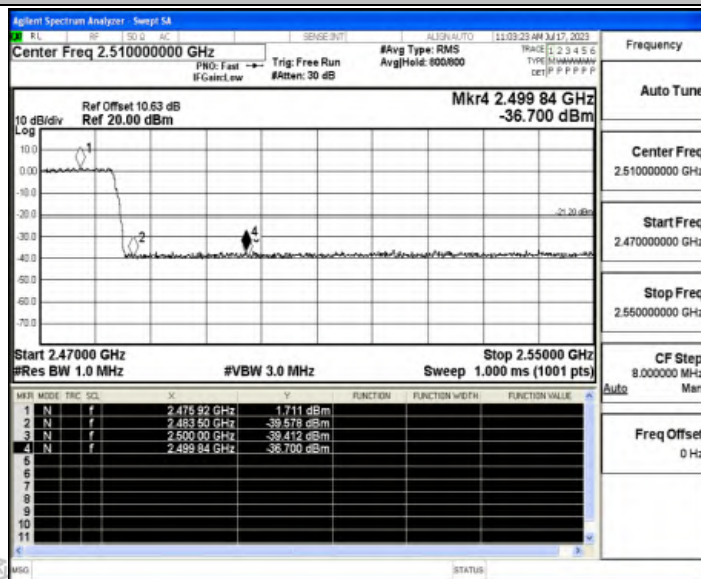
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3DH5_Ant1_High_Hop_2480_Peak



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