



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: FM Transmitter

Test Model: BT23

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



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A.1 20dB Emission Bandwidth

Test Result

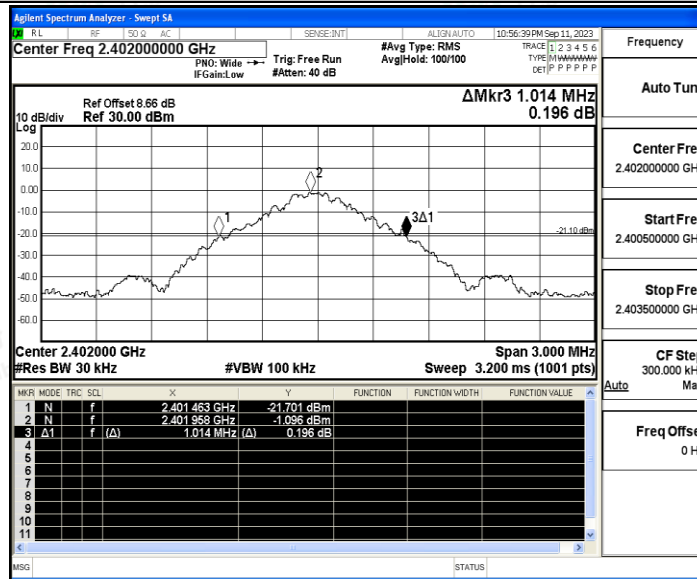
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.014	2401.463	2402.477	---
		2441	0.957	2440.517	2441.474	---
		2480	1.032	2479.454	2480.486	---
2DH5	Ant1	2402	1.317	2401.325	2402.642	---
		2441	1.293	2440.349	2441.642	---
		2480	1.296	2479.349	2480.645	---
3DH5	Ant1	2402	1.326	2401.328	2402.654	---
		2441	1.290	2440.340	2441.630	---
		2480	1.302	2479.337	2480.639	---



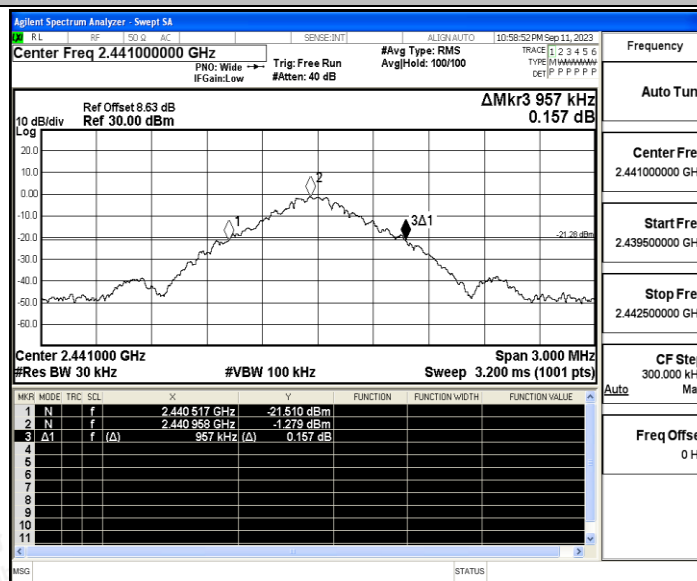


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

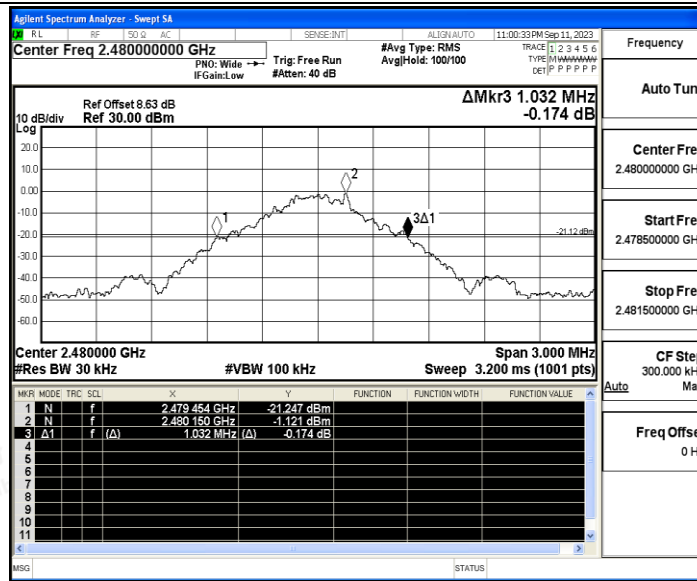


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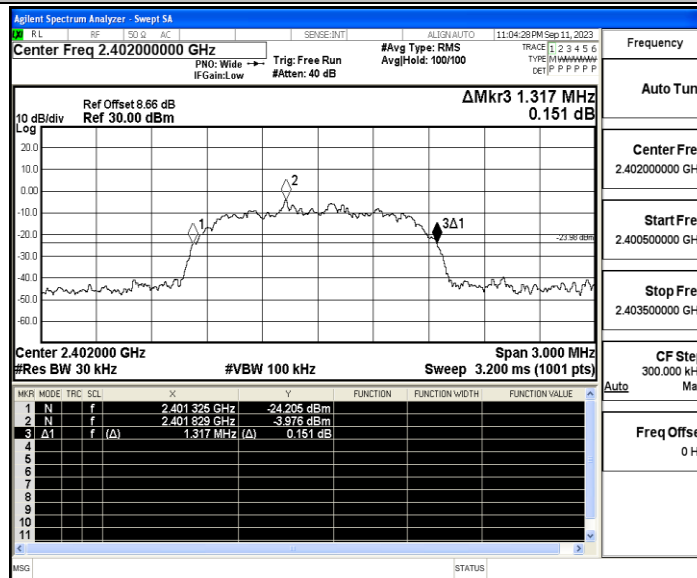
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2DH5_Ant1_2402



2DH5_Ant1_2441



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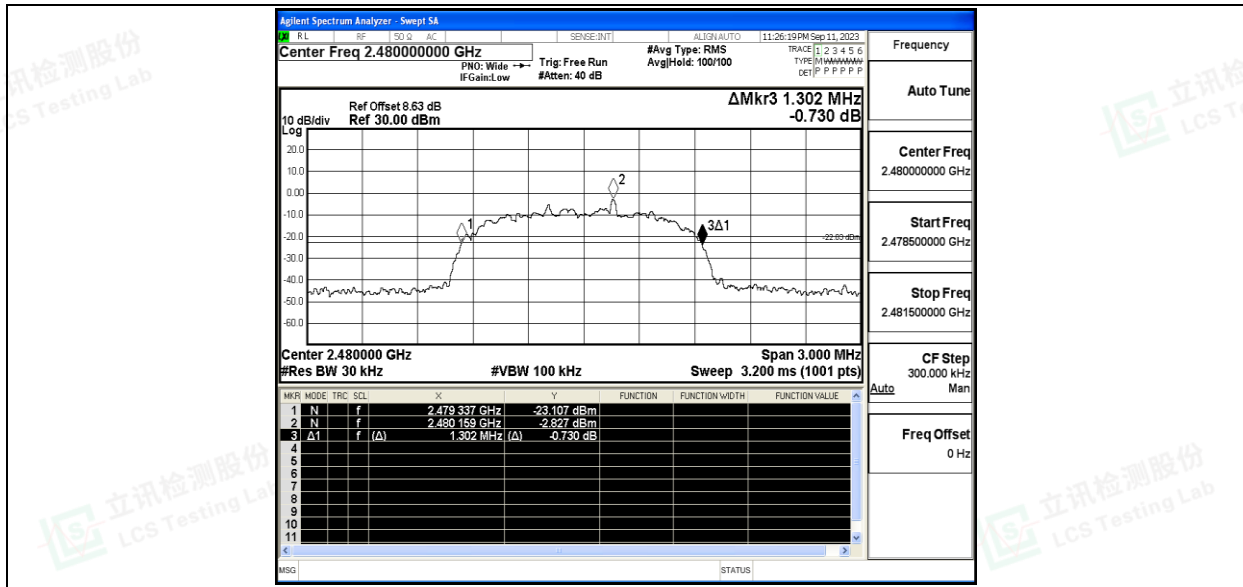


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.94	≤20.97	PASS
		2441	1.72	≤20.97	PASS
		2480	1.78	≤20.97	PASS
2DH5	Ant1	2402	1.39	≤20.97	PASS
		2441	1.41	≤20.97	PASS
		2480	1.49	≤20.97	PASS
3DH5	Ant1	2402	1.53	≤20.97	PASS
		2441	1.69	≤20.97	PASS
		2480	1.56	≤20.97	PASS



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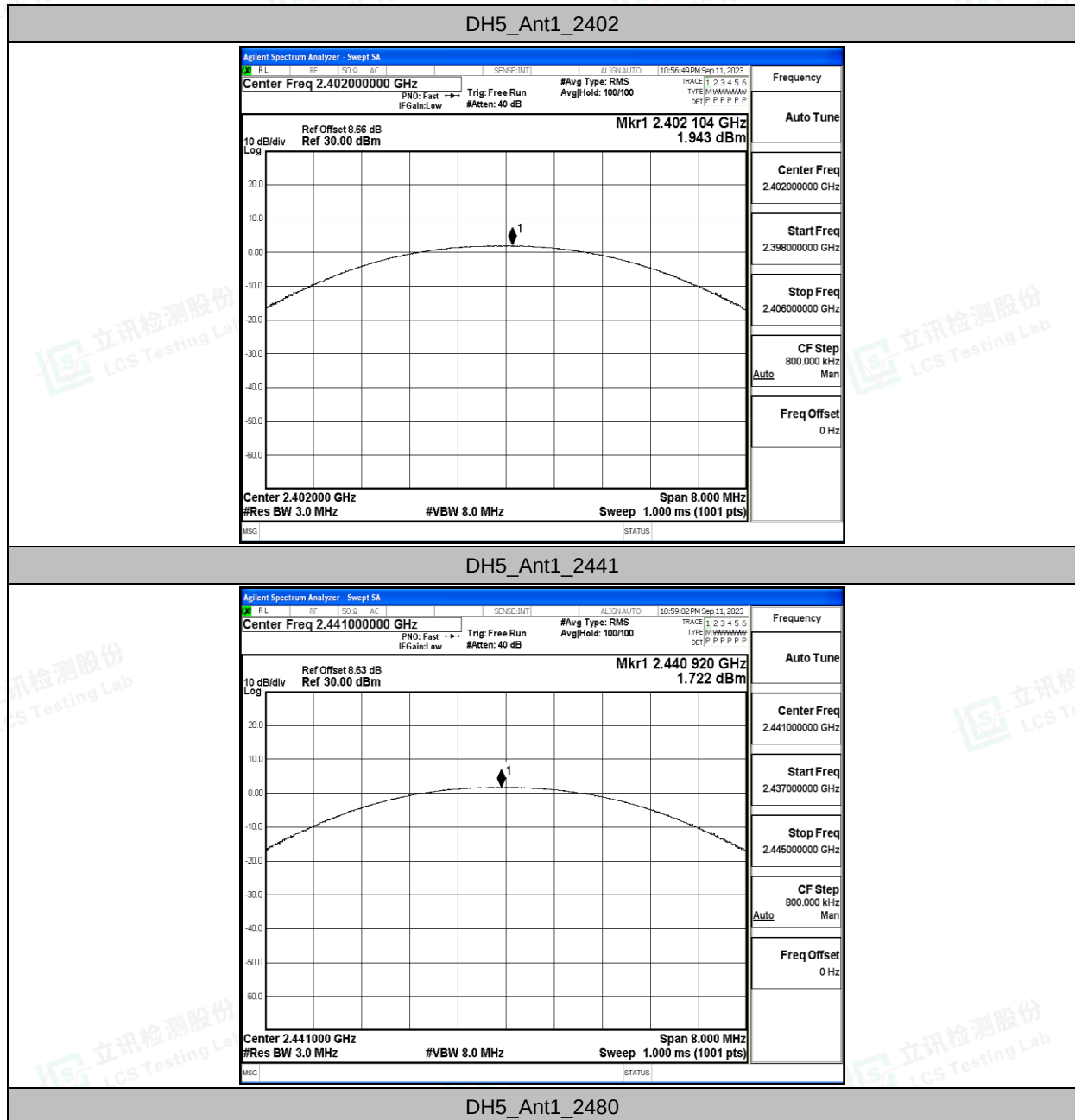
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Test Graphs

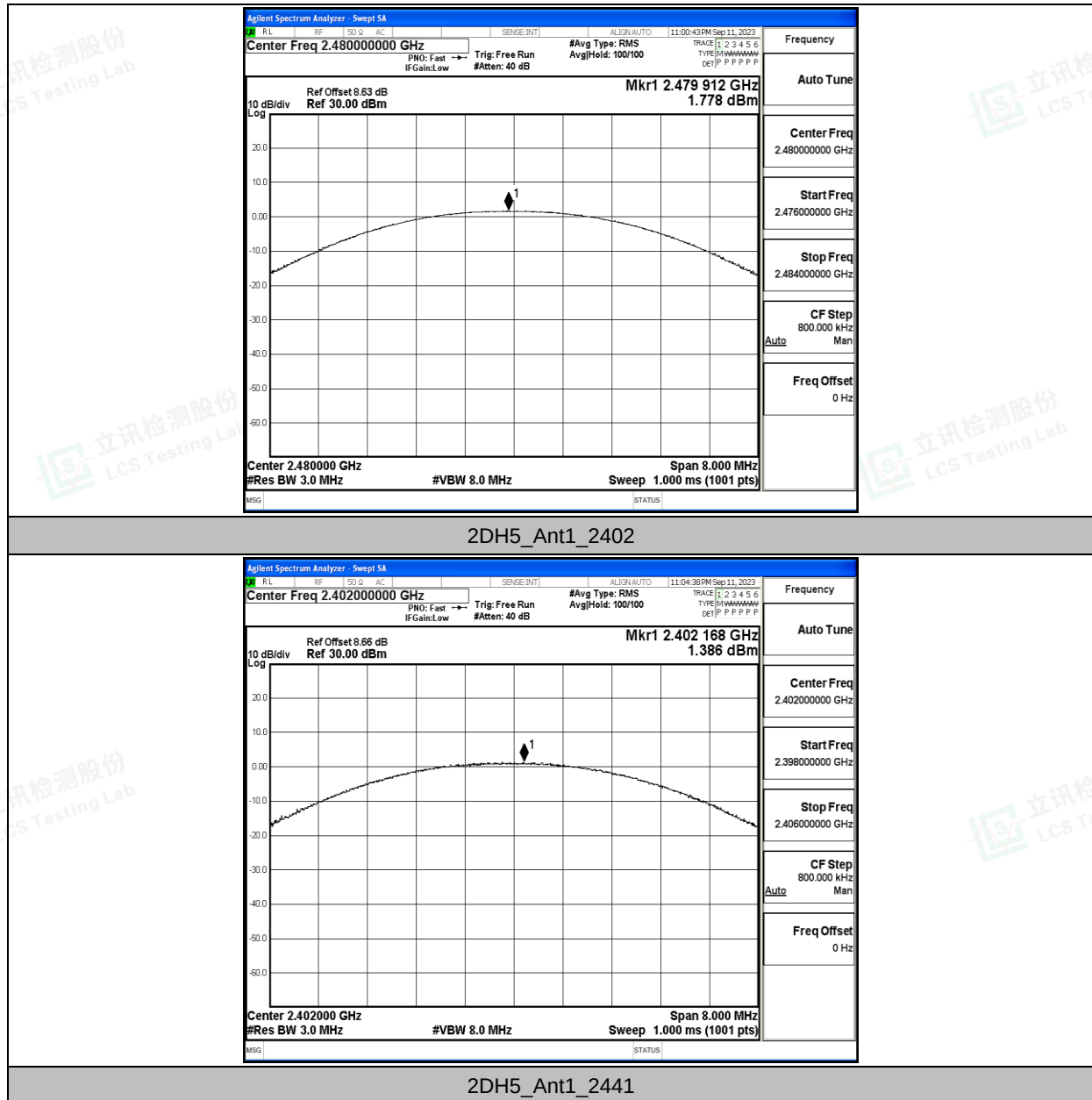


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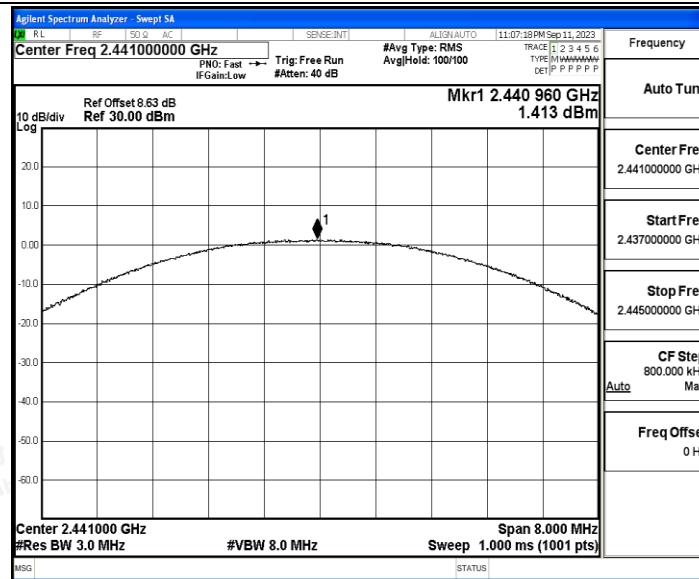


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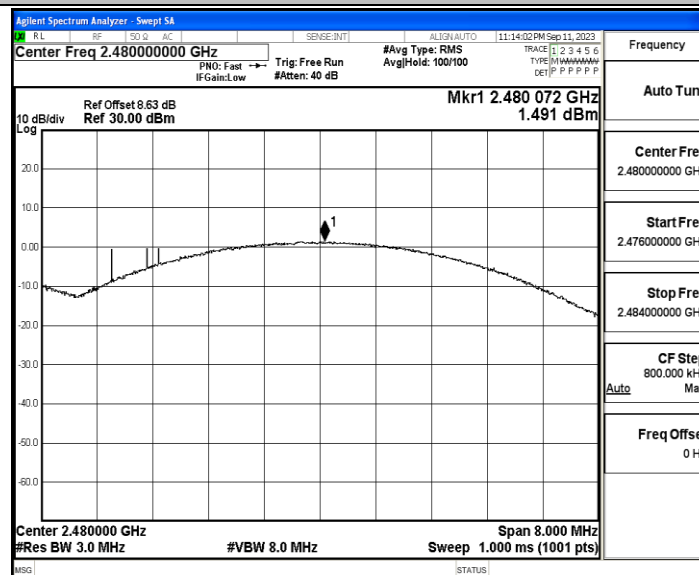
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2DH5_Ant1_2480



3DH5_Ant1_2402

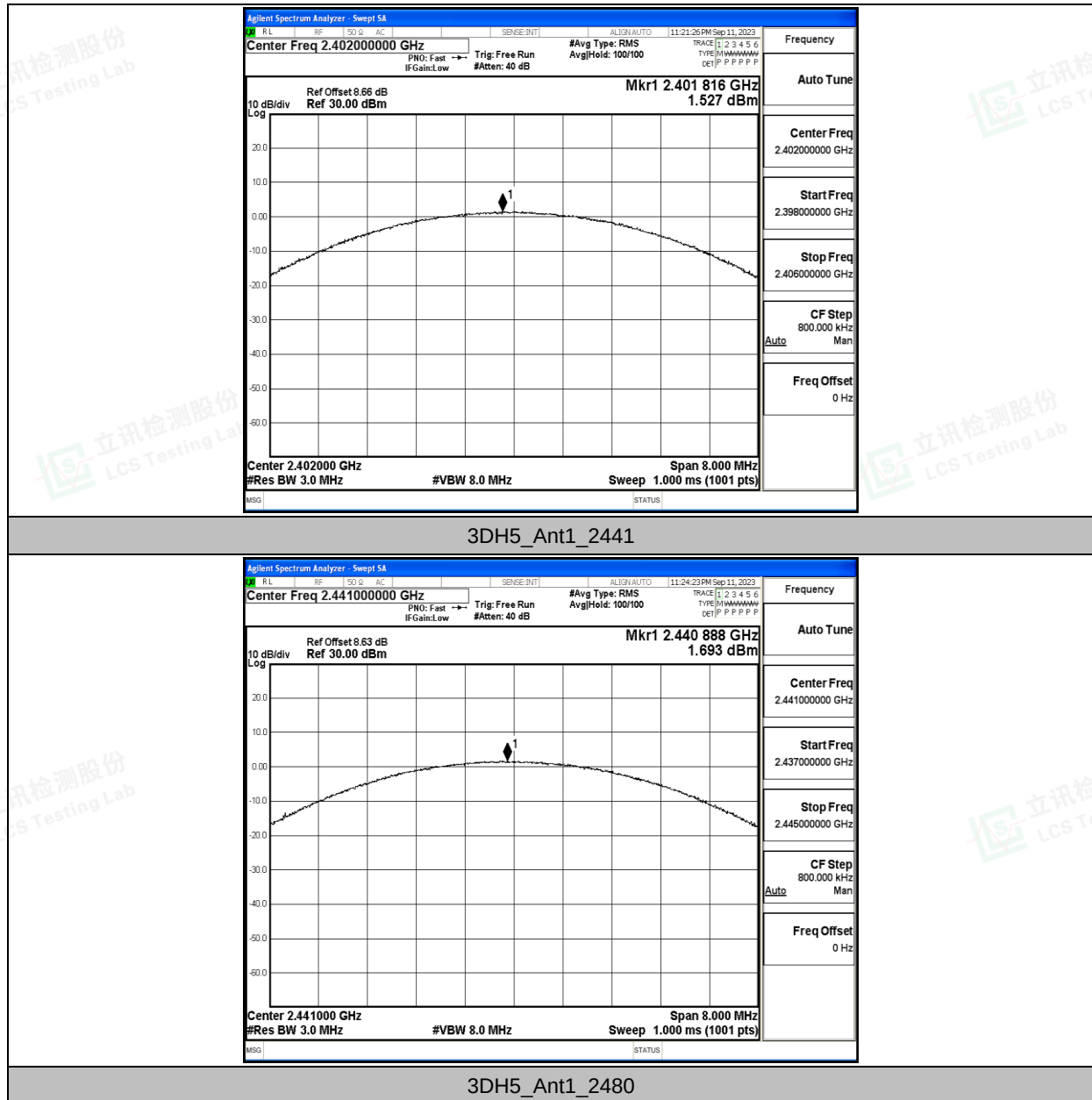


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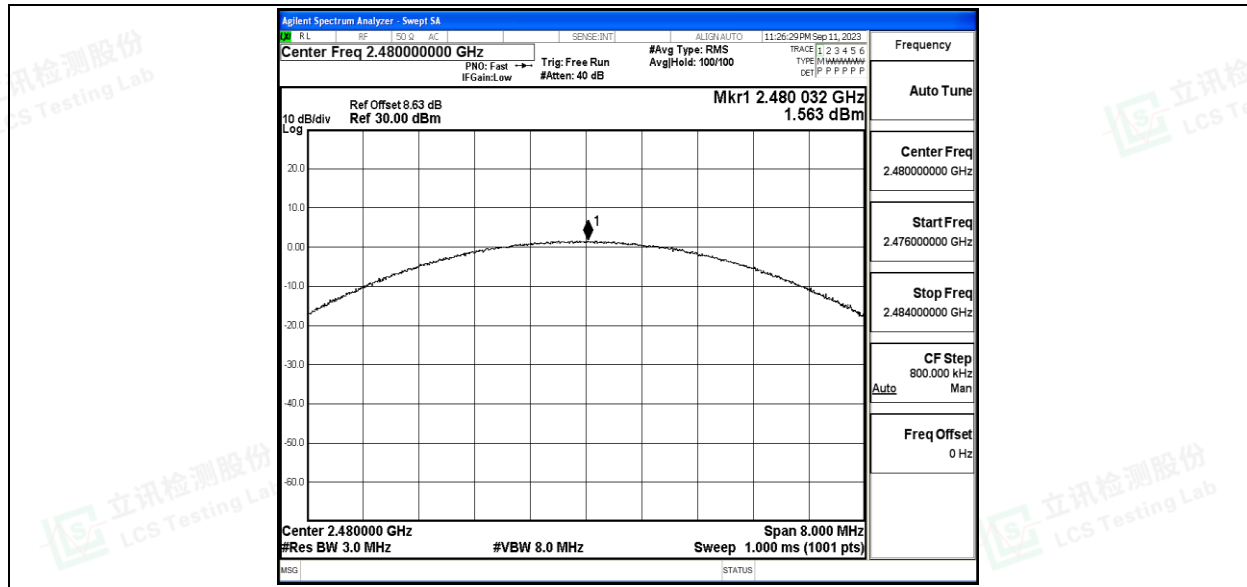


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.208	0.688	PASS
2DH5	Ant1	Hop	0.98	0.878	PASS
3DH5	Ant1	Hop	1.222	0.884	PASS



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Test Graphs

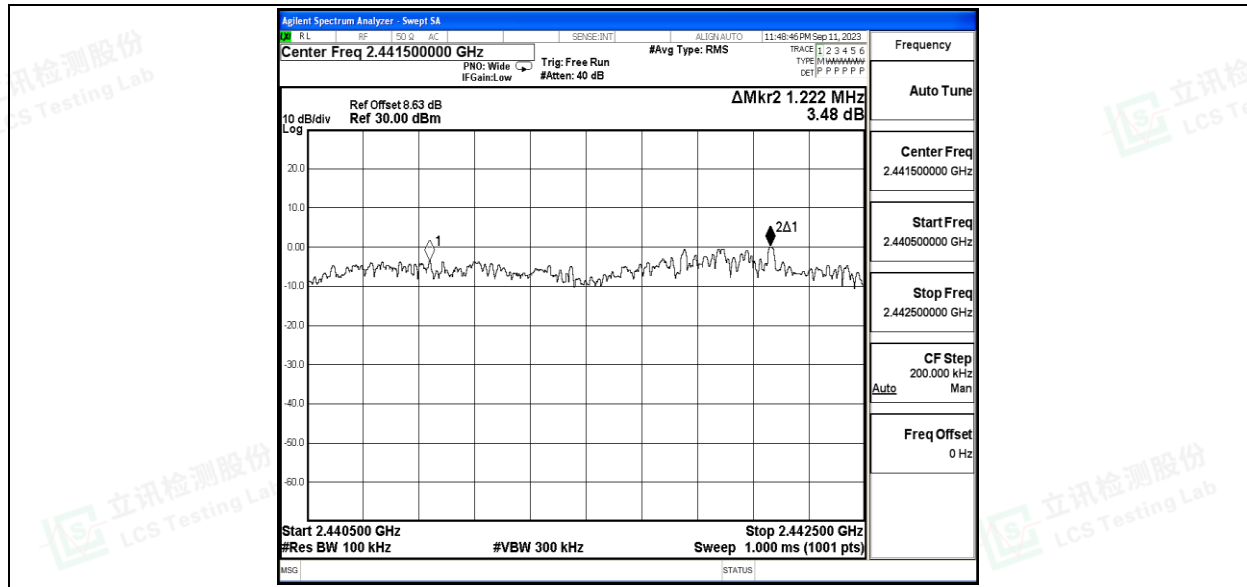


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A.4 Time of occupancy

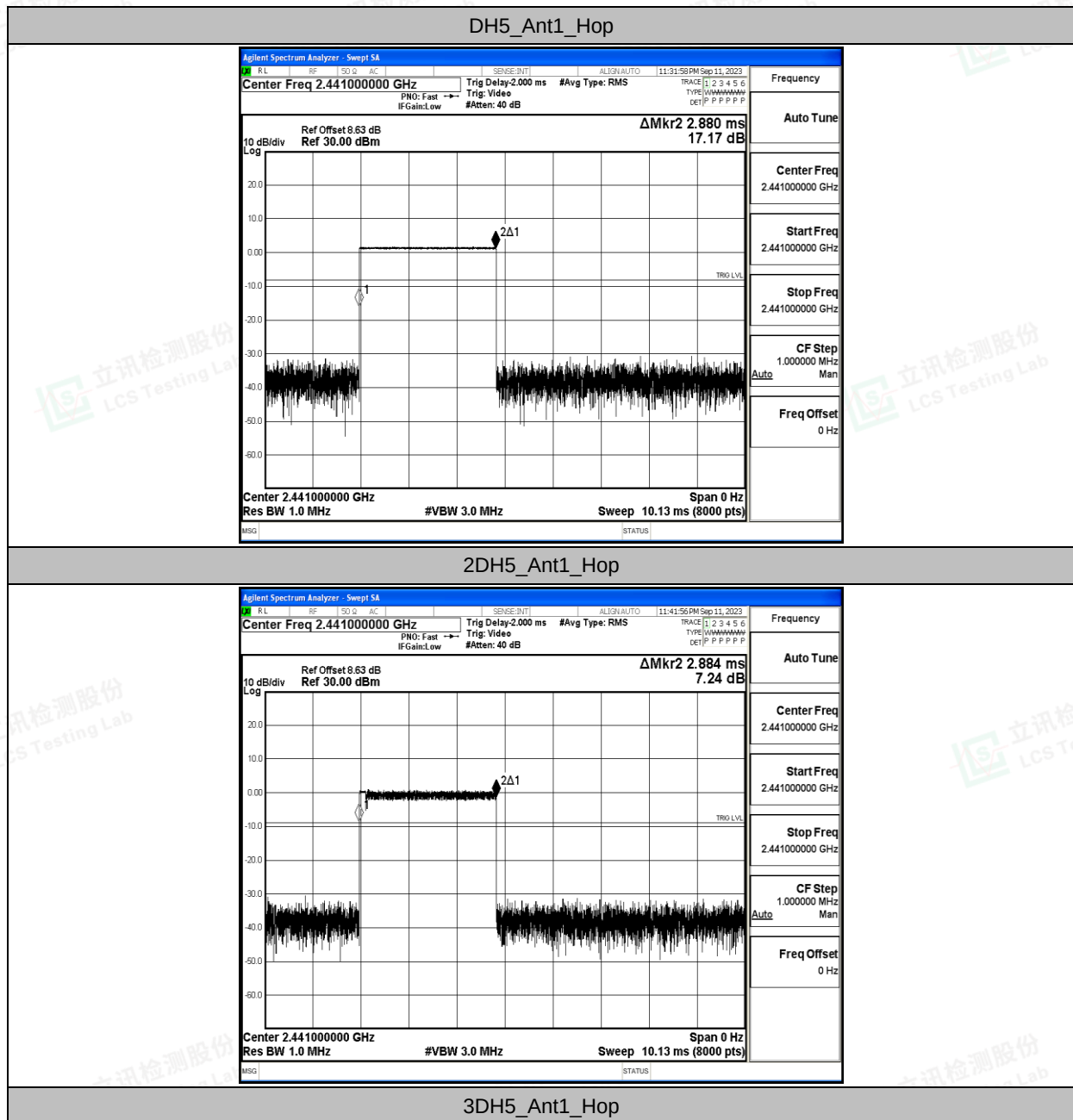
Test Result

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





Test Graphs

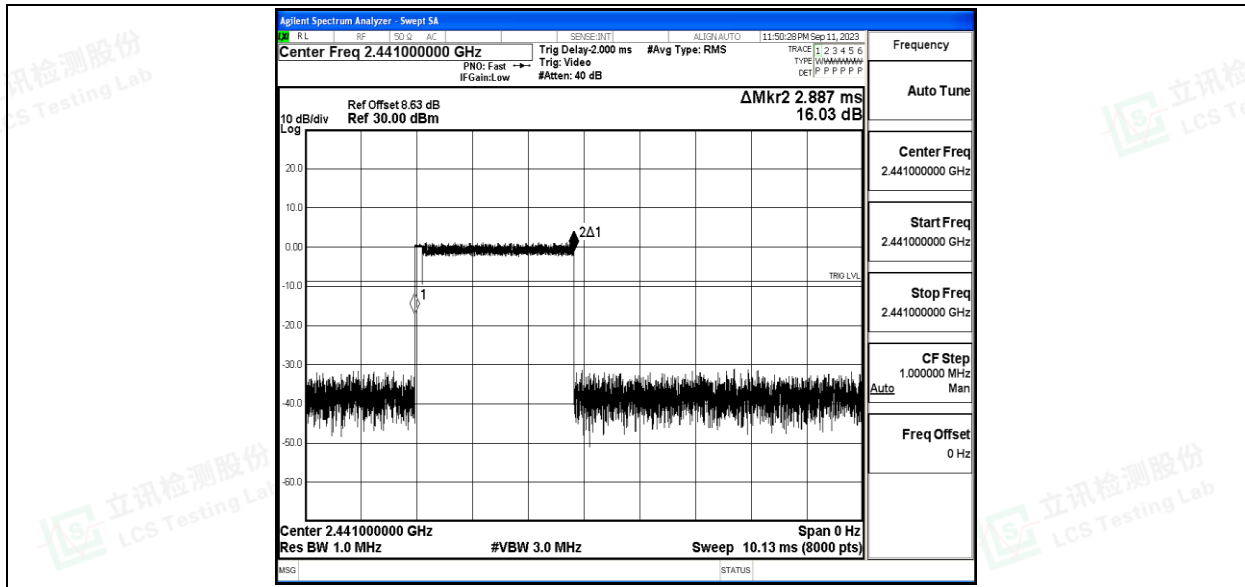


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A.5 Number of hopping channels

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





Test Graphs

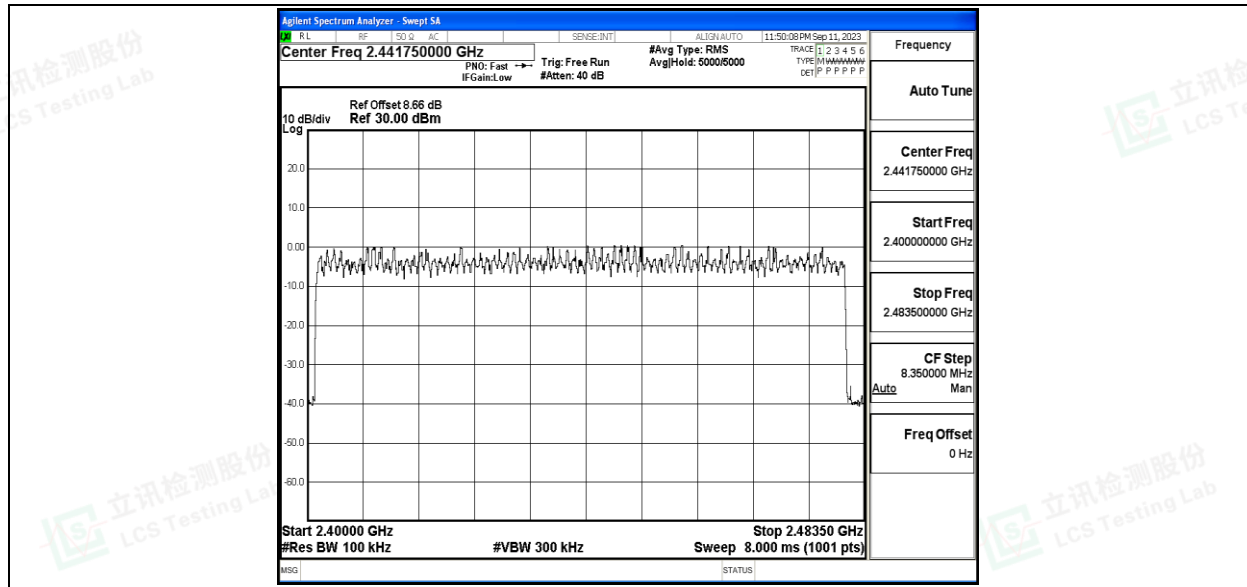


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.58	-49.57	≤ -19.42	PASS
		High	2480	0.52	-48.92	≤ -19.48	PASS
		Low	Hop_2402	-0.12	-48.96	≤ -20.12	PASS
		High	Hop_2480	1.32	-47.84	≤ -18.68	PASS
2DH5	Ant1	Low	2402	-2.52	-49.67	≤ -22.52	PASS
		High	2480	-3.54	-48.92	≤ -23.54	PASS
		Low	Hop_2402	-4.25	-49.6	≤ -24.25	PASS
		High	Hop_2480	0.19	-47.86	≤ -19.81	PASS
3DH5	Ant1	Low	2402	-3.82	-50.19	≤ -23.82	PASS
		High	2480	-4.50	-48.99	≤ -24.5	PASS
		Low	Hop_2402	-3.70	-49.01	≤ -23.7	PASS
		High	Hop_2480	-2.45	-47.66	≤ -22.45	PASS



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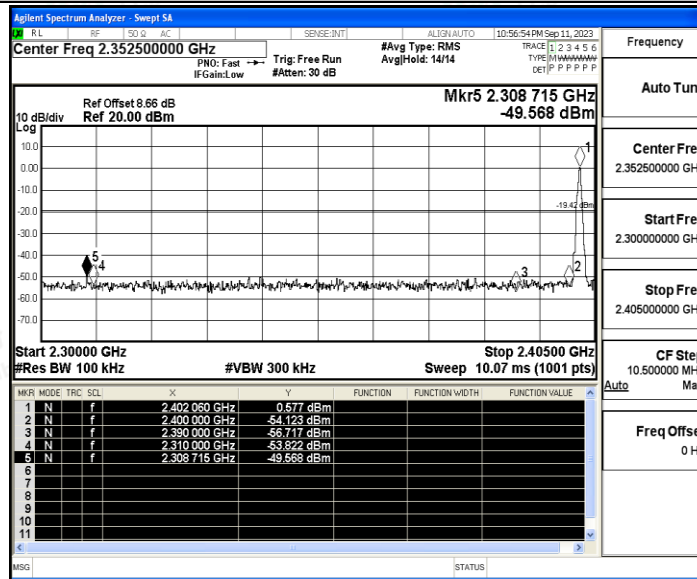
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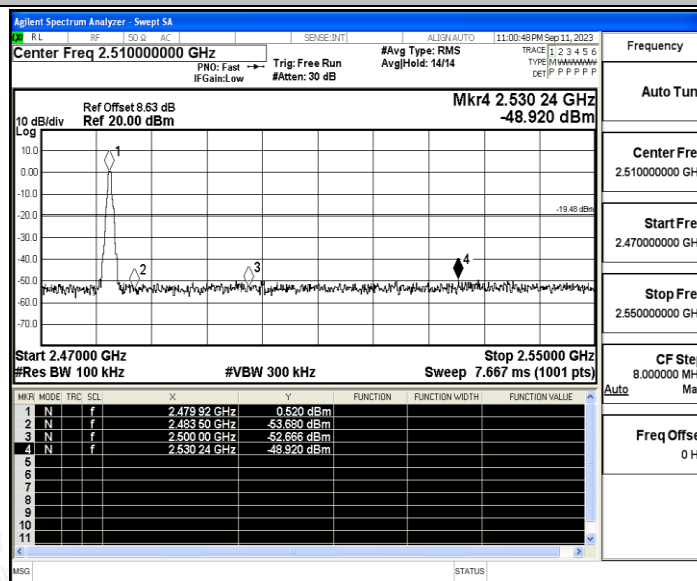


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

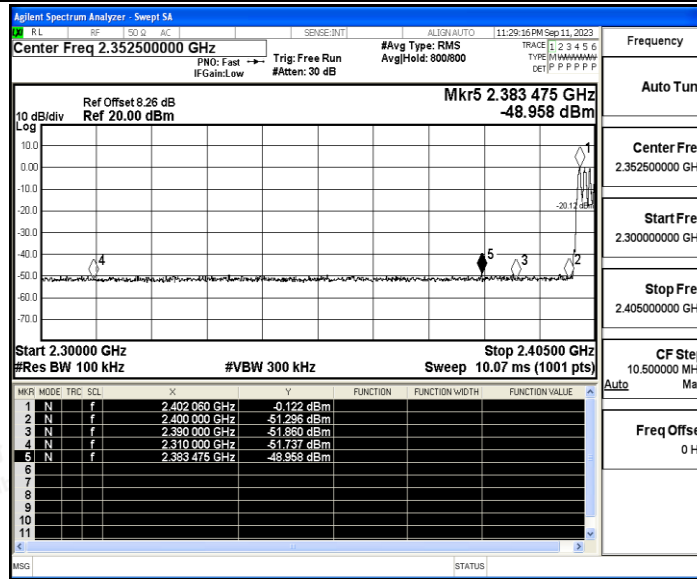


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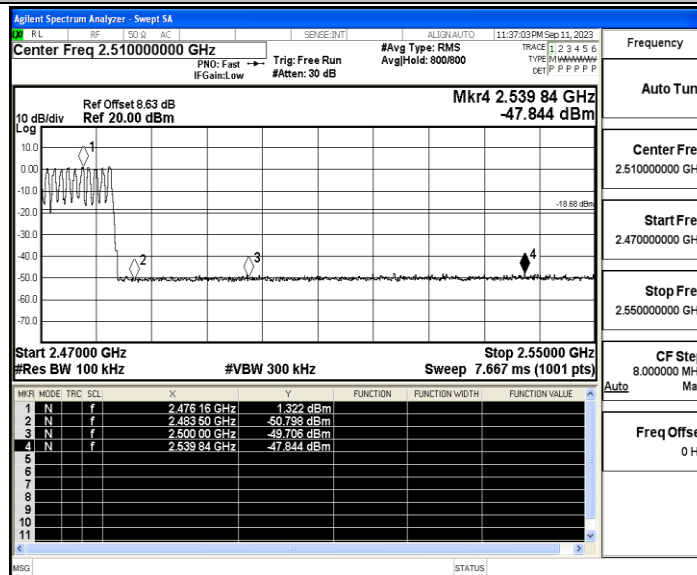
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

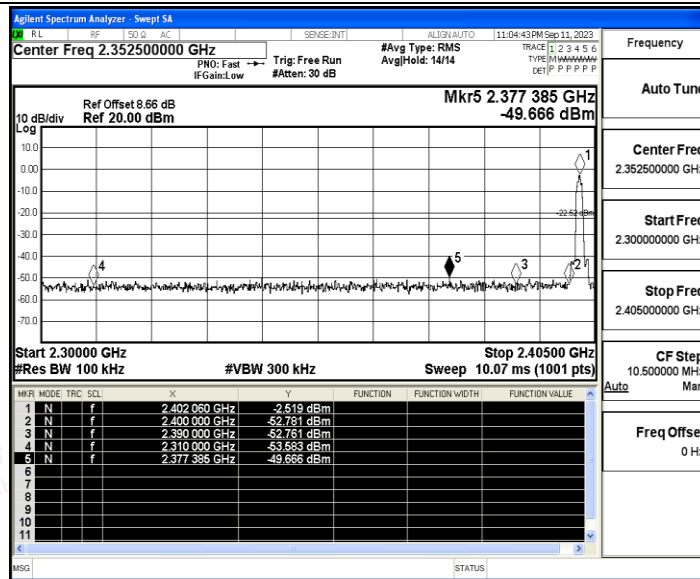


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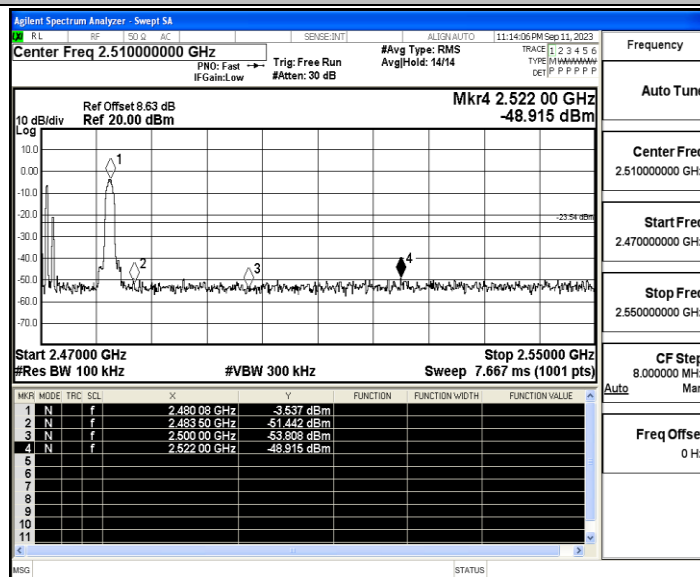
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

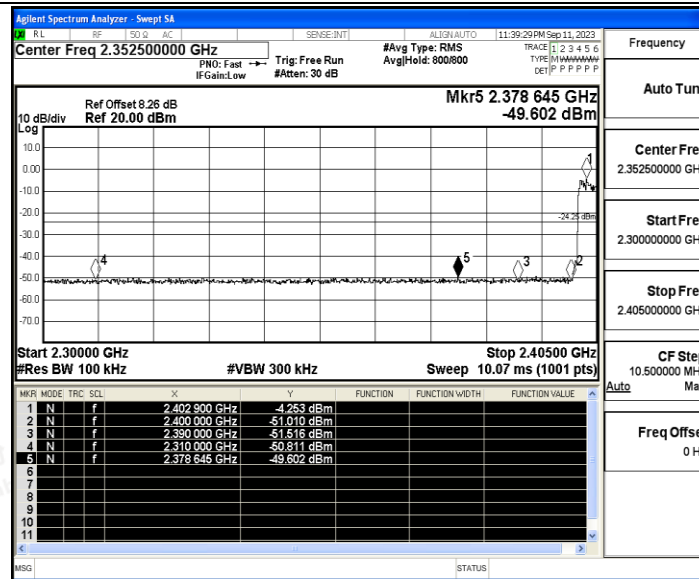


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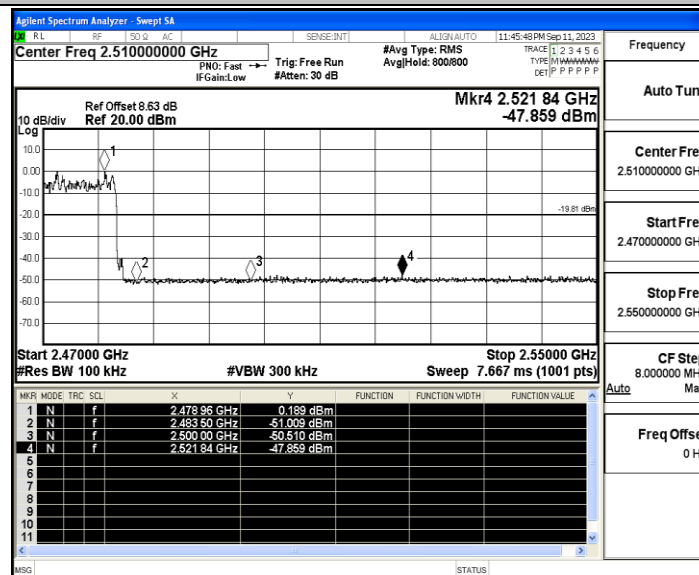
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

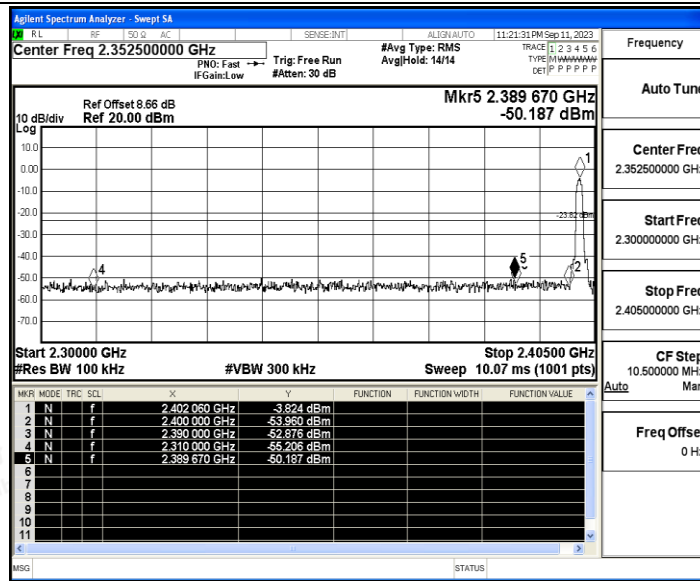


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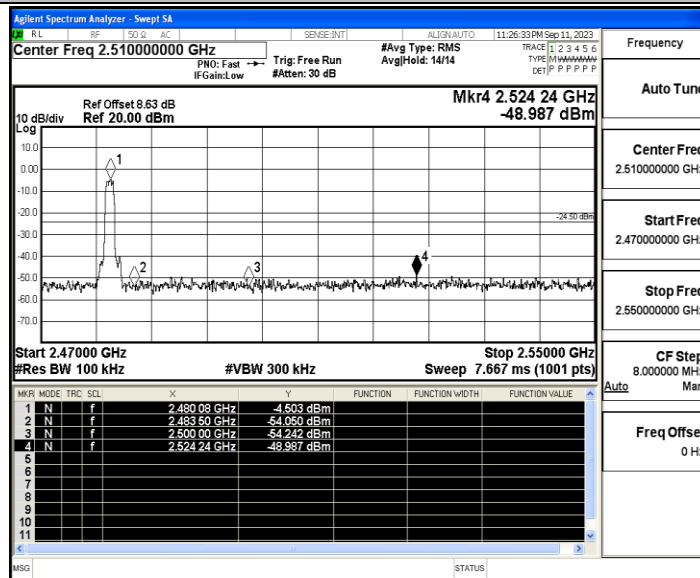
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

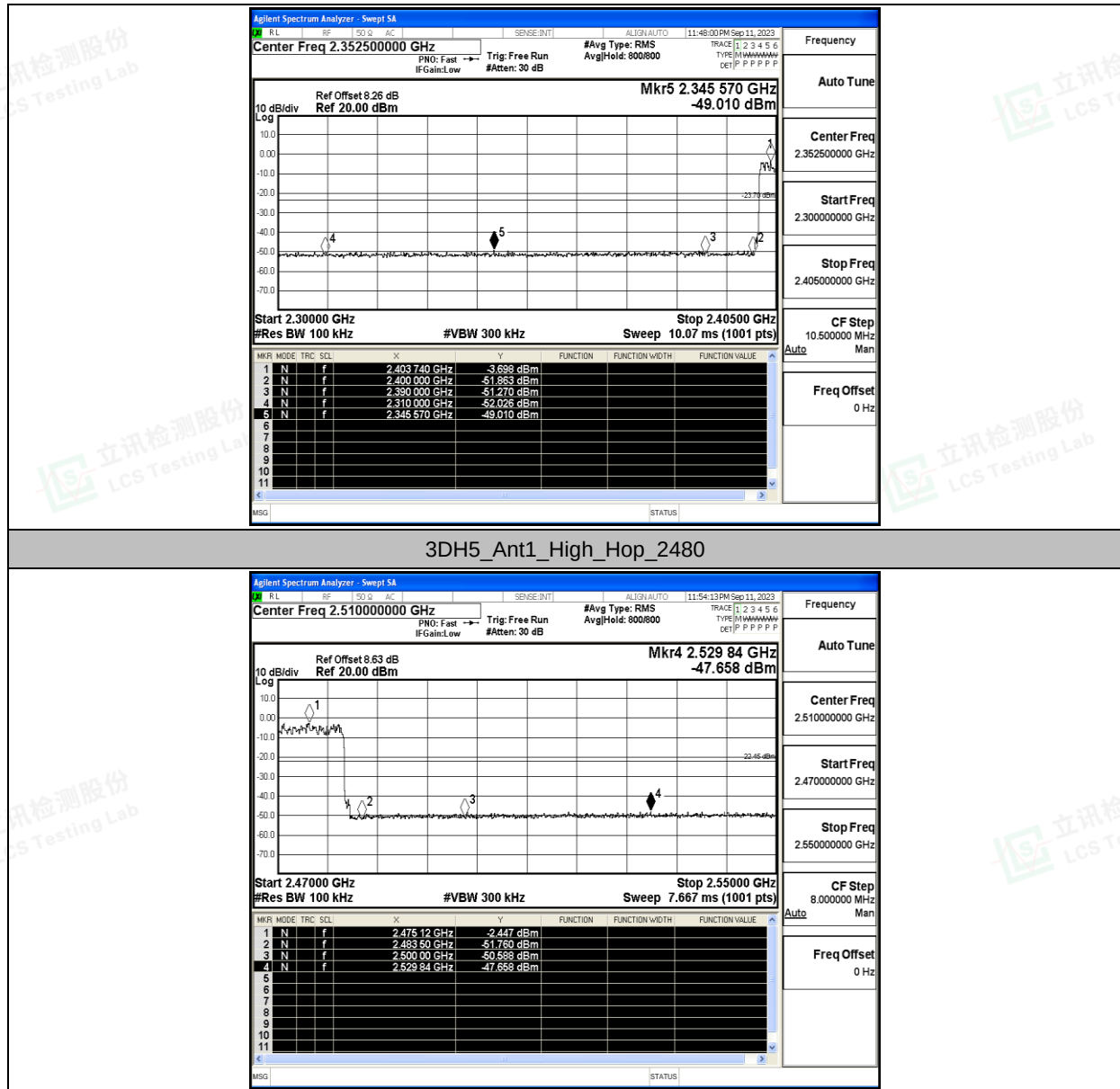


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-60.97	≤-19.61	PASS
			1000~26500	0.39	-45.96	≤-19.61	PASS
		2441	Reference	1.00	1.00	---	PASS
			30~1000	1.00	-60.54	≤-19	PASS
			1000~26500	1.00	-45.21	≤-19	PASS
		2480	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-61.35	≤-18.89	PASS
			1000~26500	1.11	-46.1	≤-18.89	PASS
2DH5	Ant1	2402	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-60.92	≤-21.25	PASS
			1000~26500	-1.25	-46.24	≤-21.25	PASS
		2441	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-61.1	≤-19.88	PASS
			1000~26500	0.12	-46.68	≤-19.88	PASS
		2480	Reference	-0.03	-0.03	---	PASS
			30~1000	-0.03	-60.84	≤-20.03	PASS
			1000~26500	-0.03	-47.03	≤-20.03	PASS
3DH5	Ant1	2402	Reference	-2.22	-2.22	---	PASS
			30~1000	-2.22	-61.25	≤-22.22	PASS
			1000~26500	-2.22	-46.9	≤-22.22	PASS
		2441	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-61.02	≤-19.79	PASS
			1000~26500	0.21	-45.98	≤-19.79	PASS
		2480	Reference	-1.70	-1.70	---	PASS
			30~1000	-1.70	-61.23	≤-21.7	PASS
			1000~26500	-1.70	-46.83	≤-21.7	PASS



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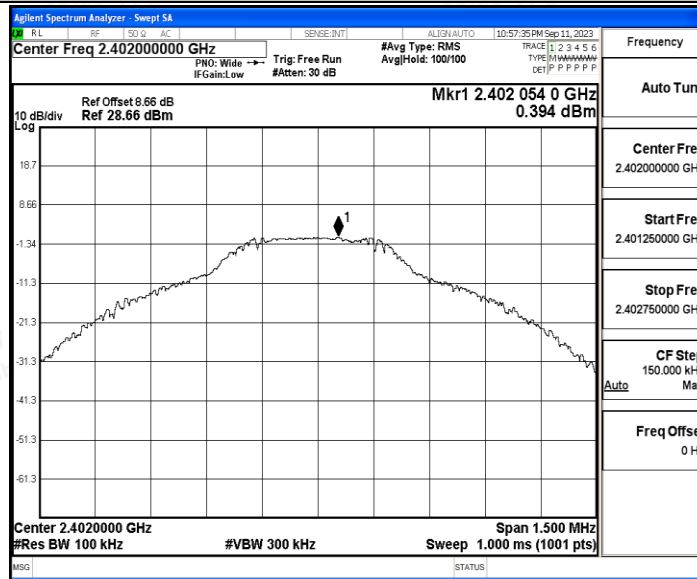
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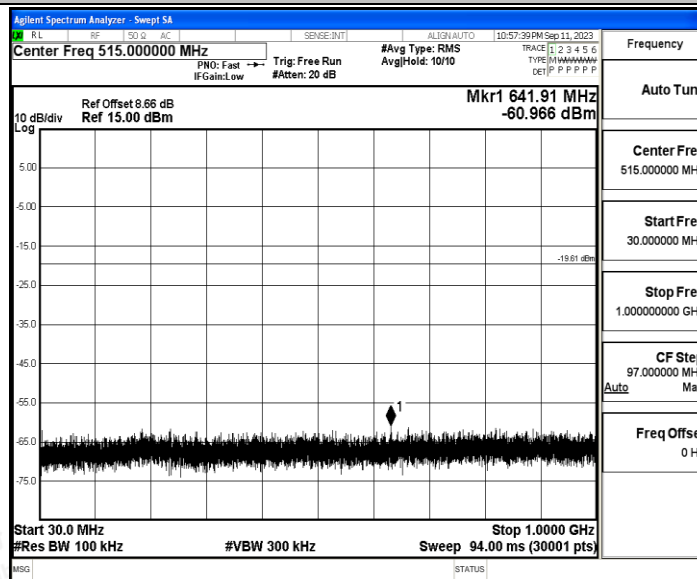


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

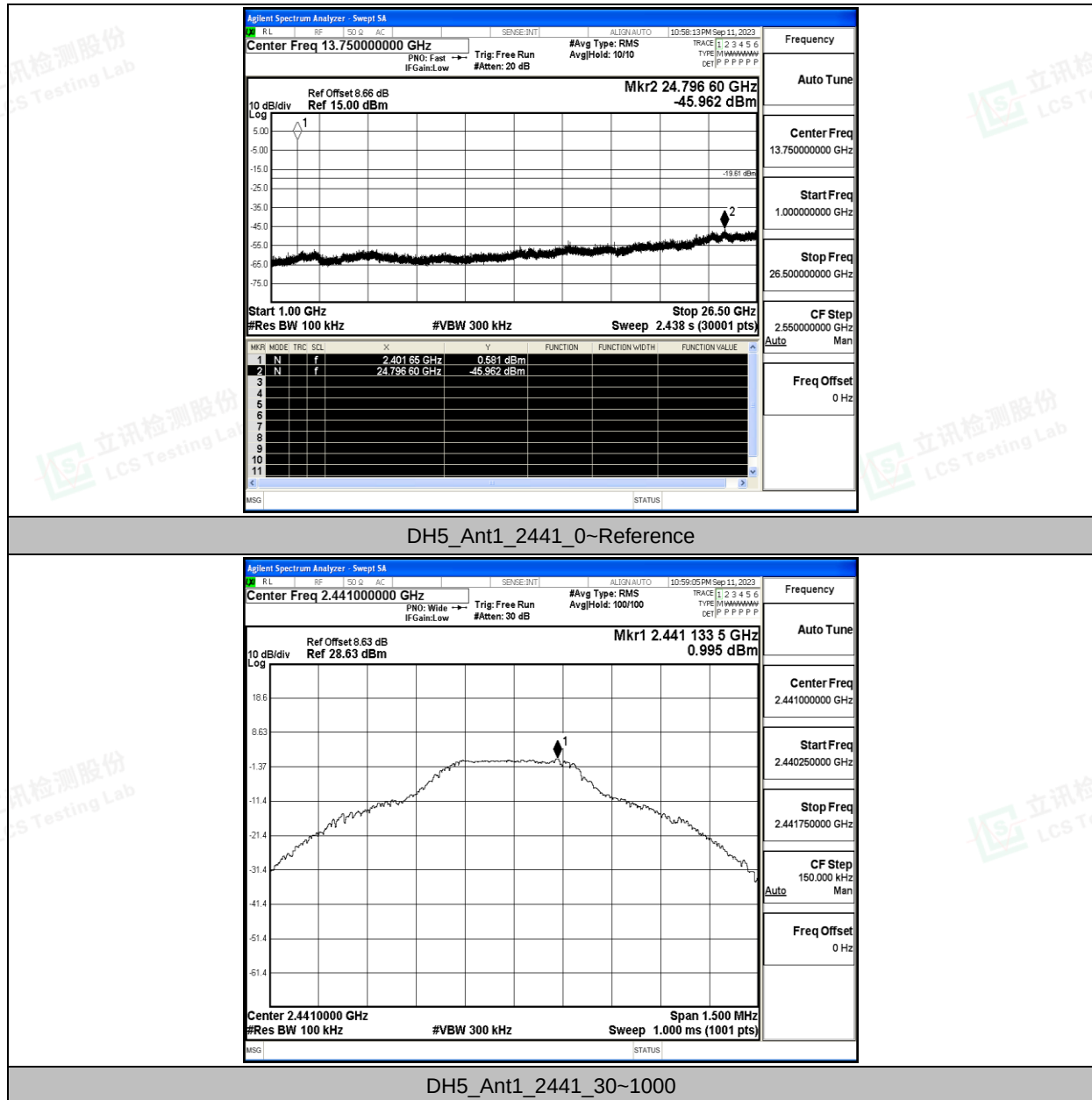


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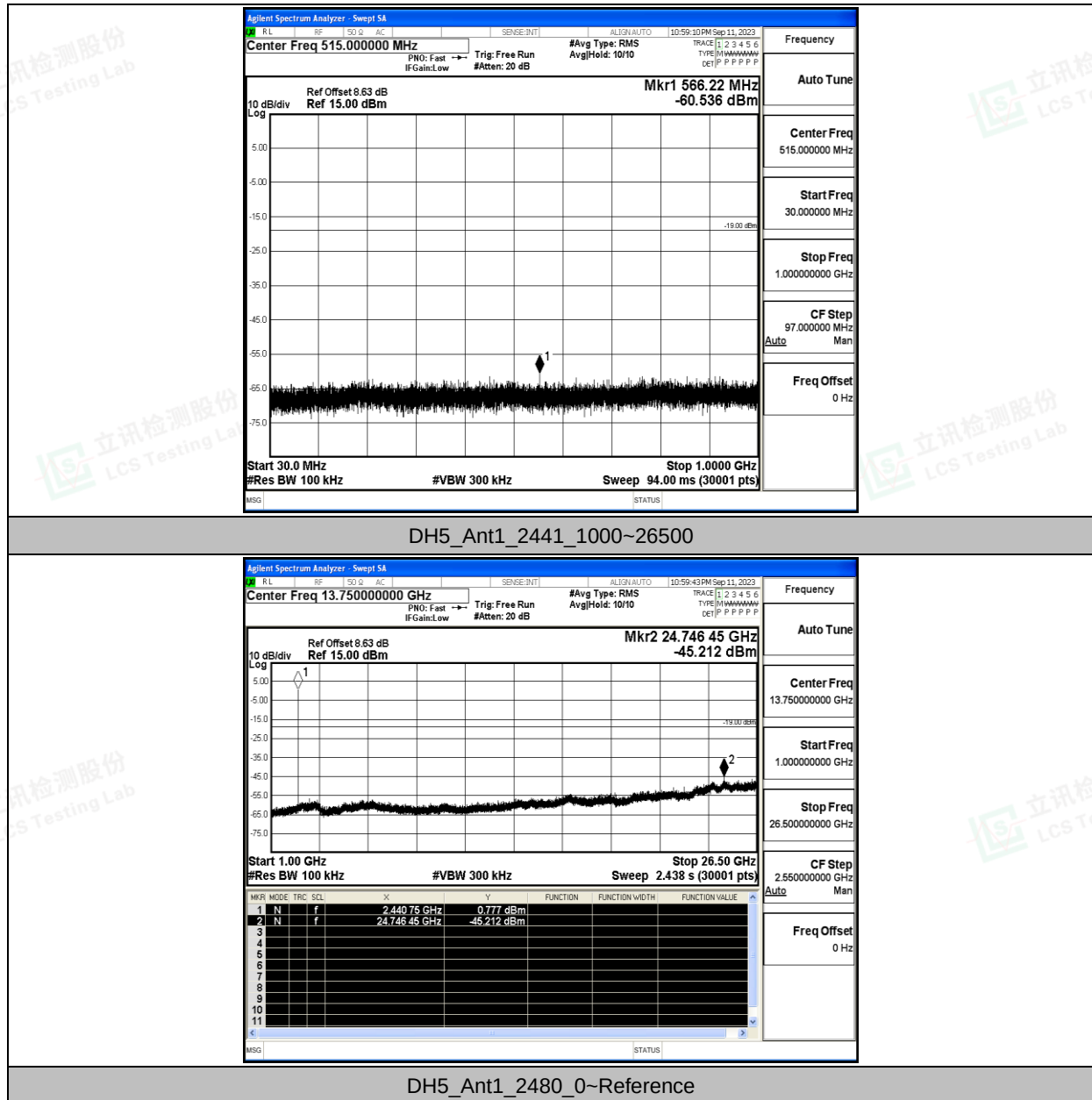


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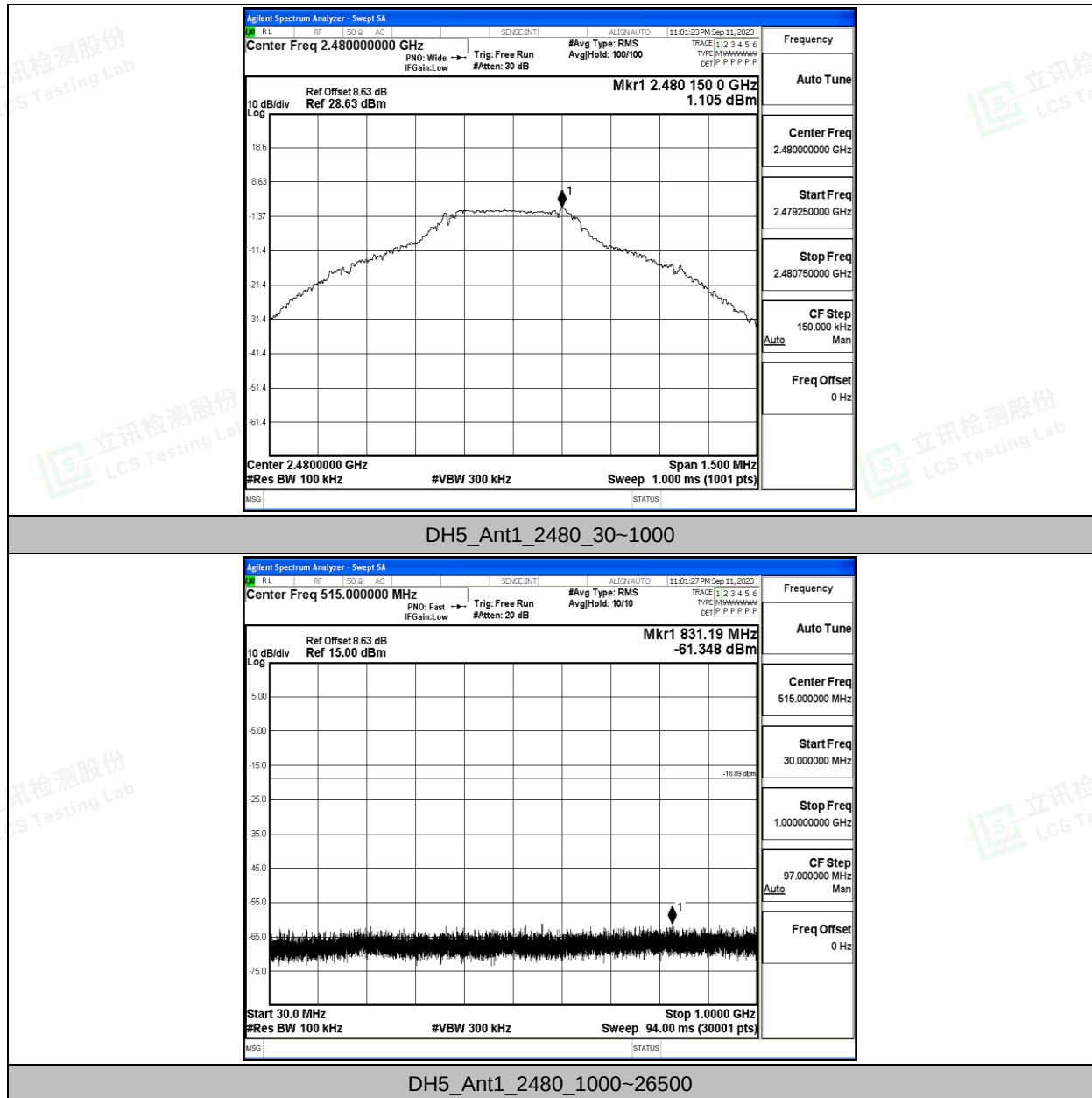


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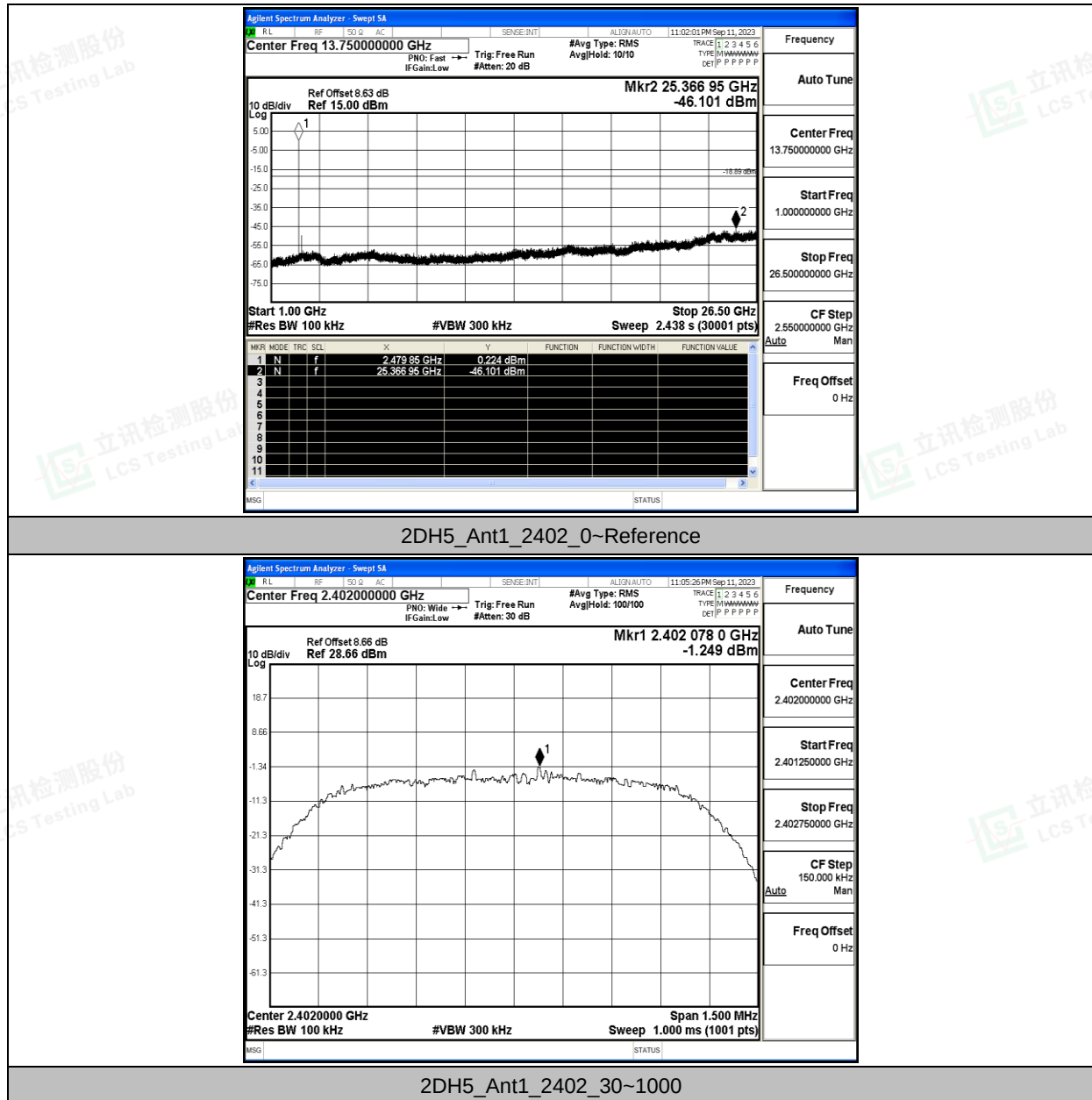


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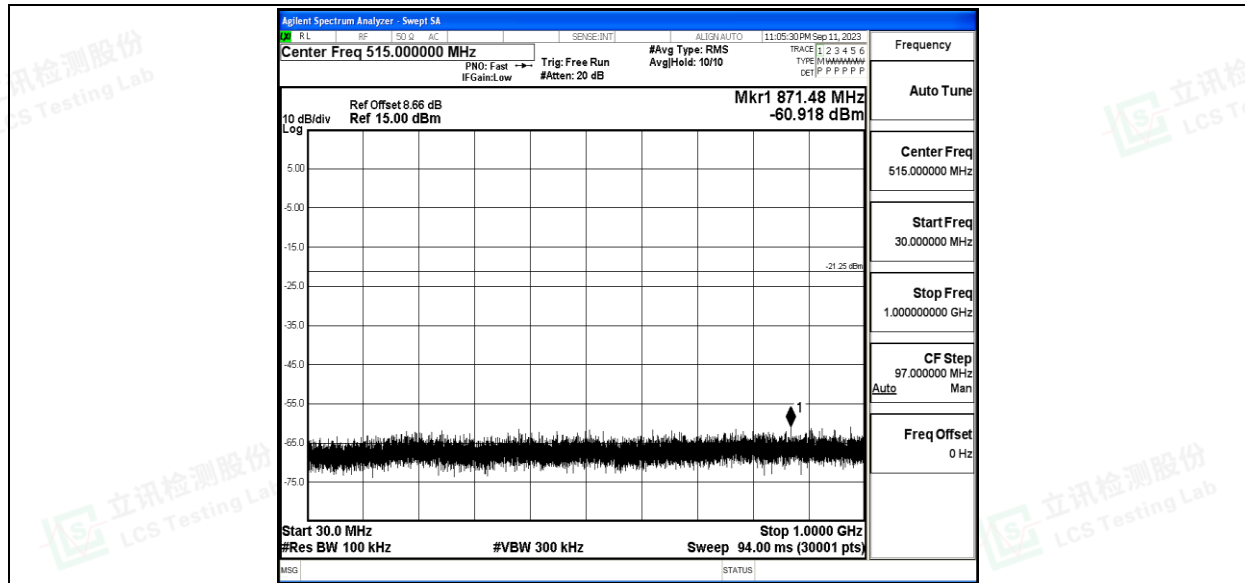


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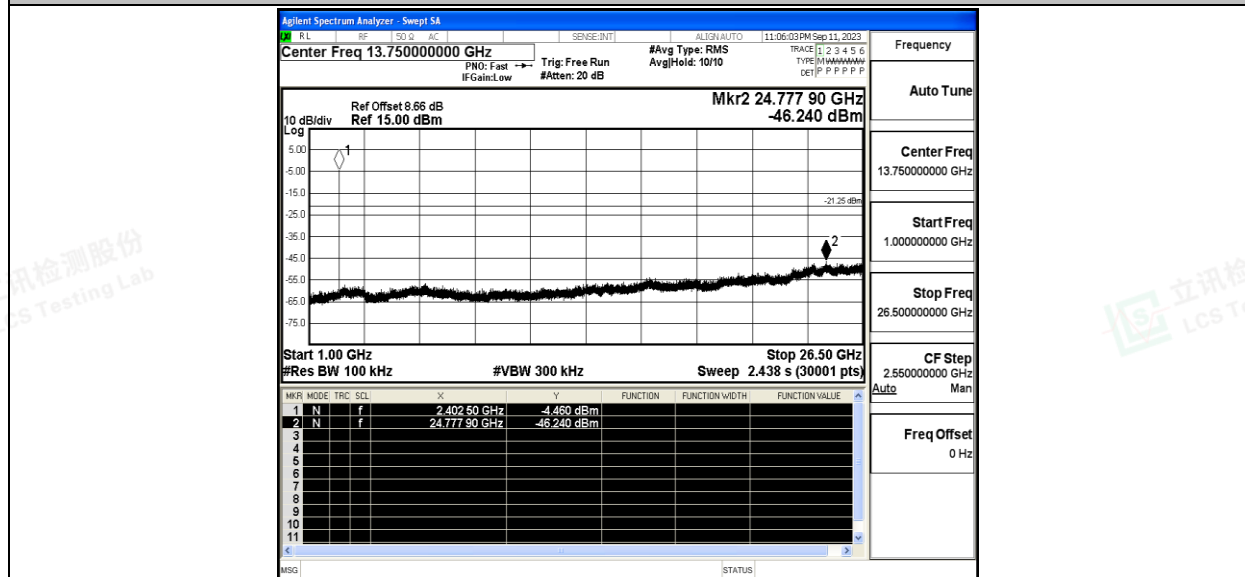
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

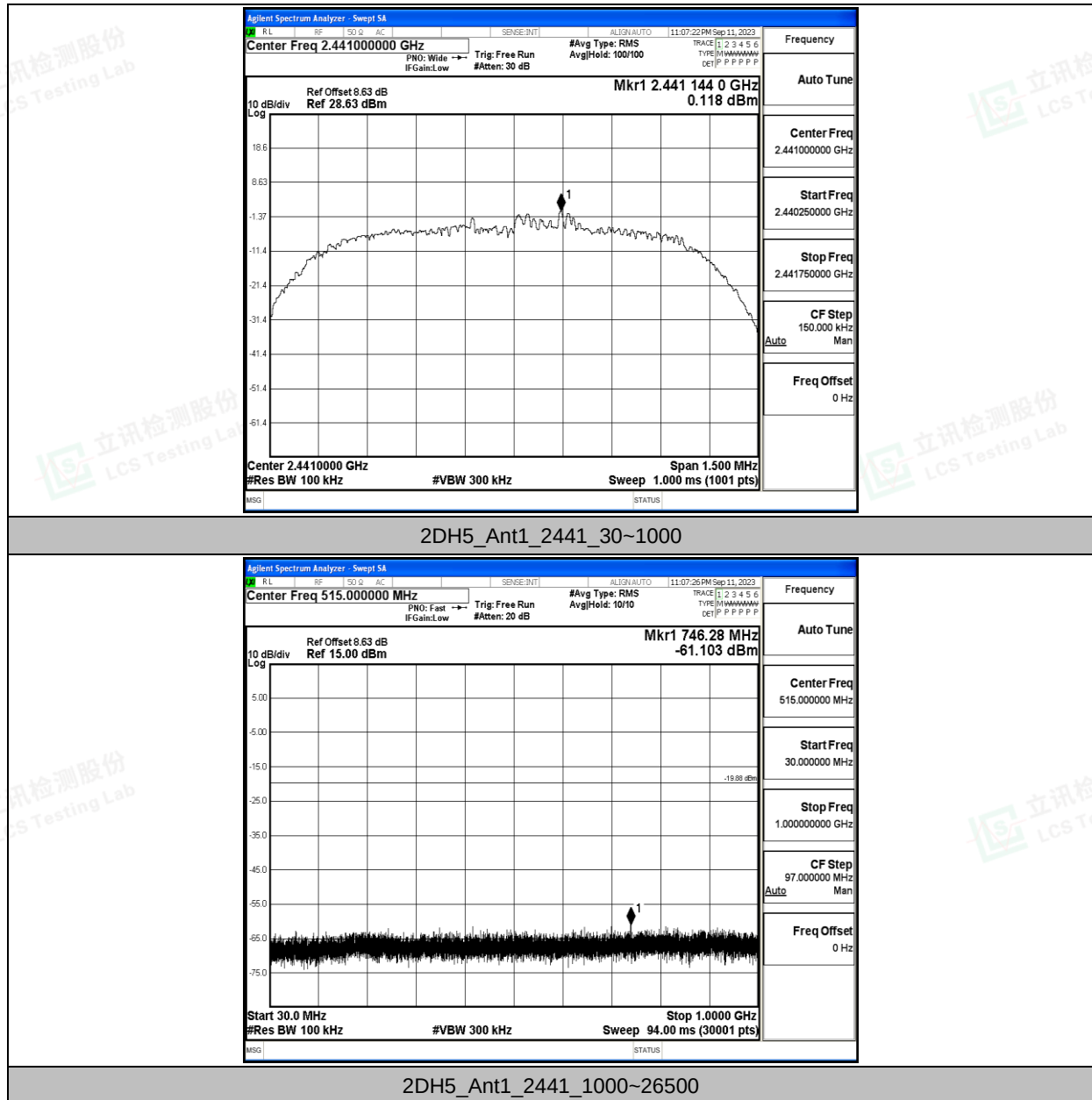


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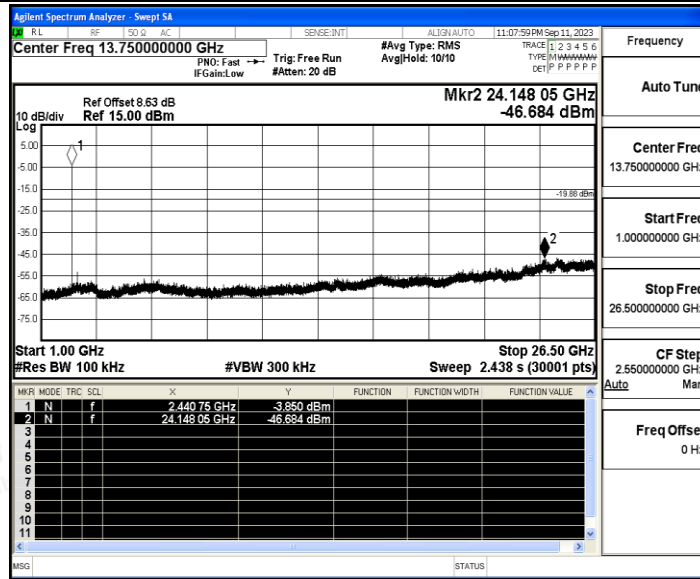


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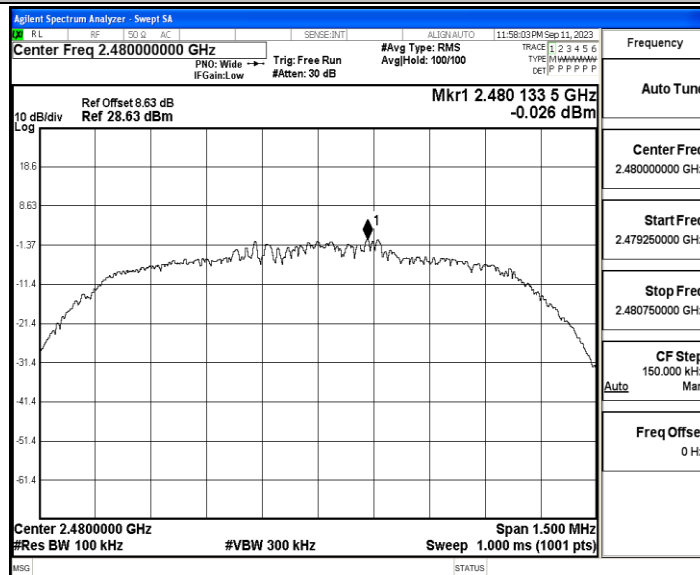
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

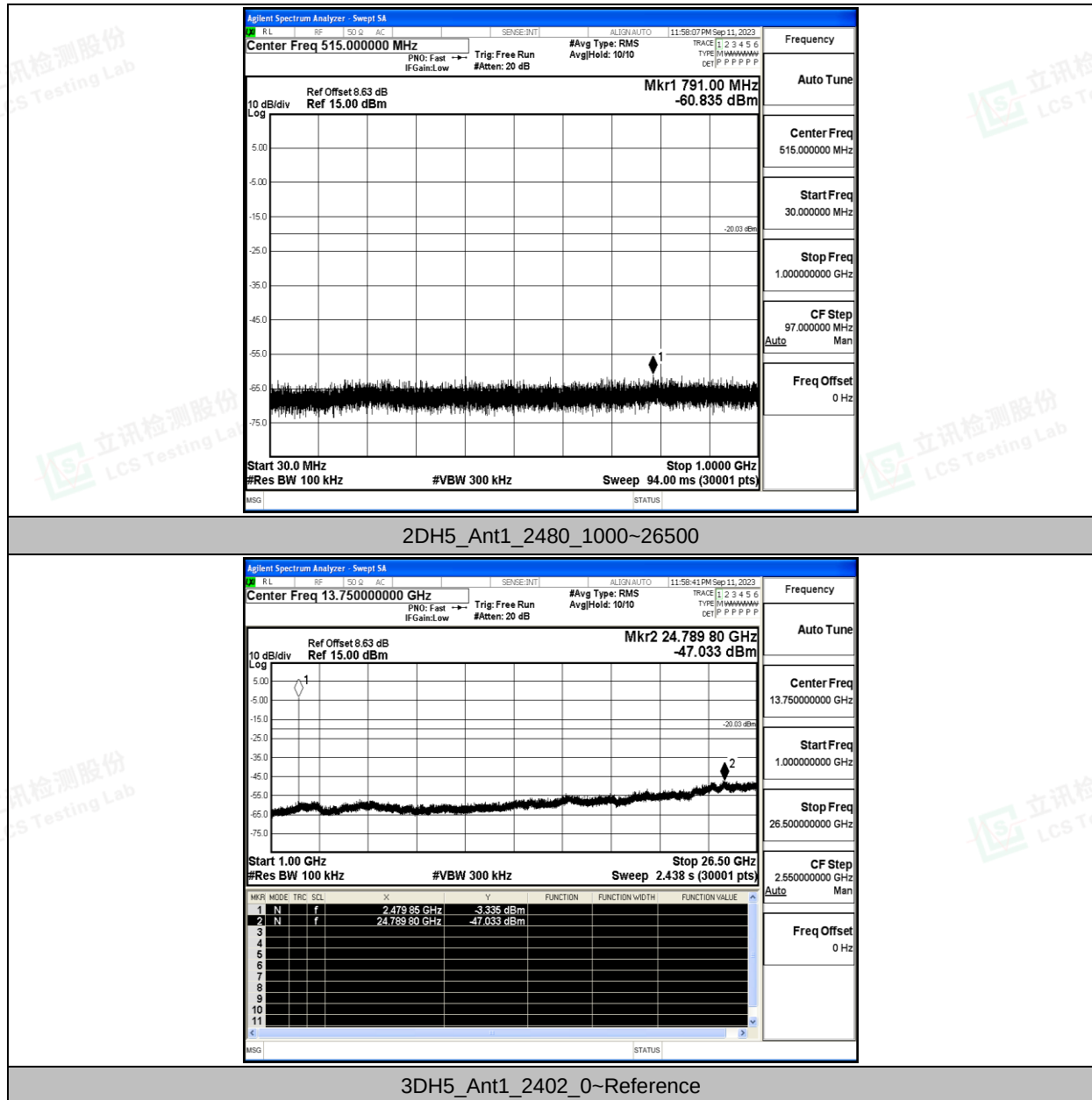


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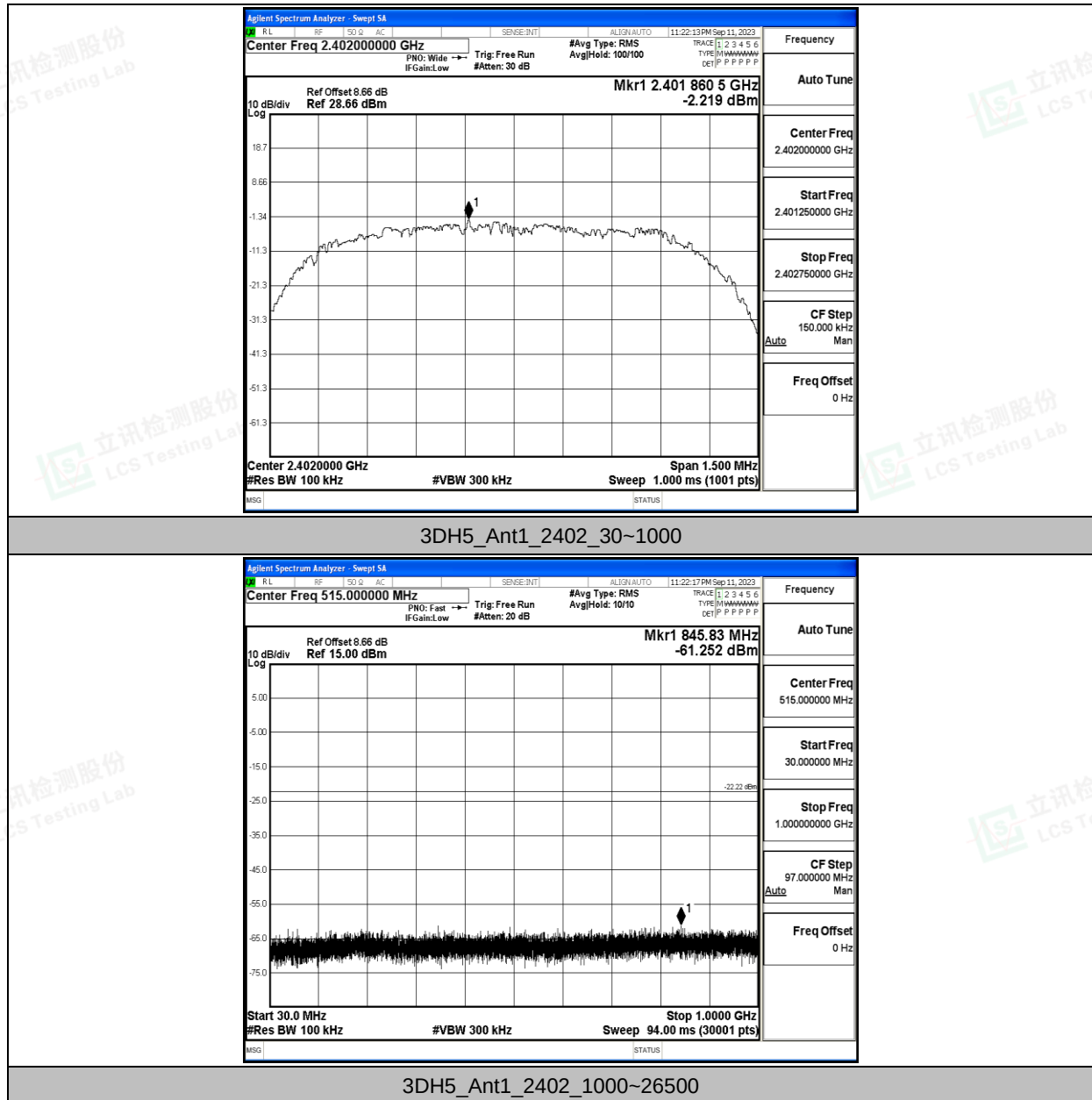


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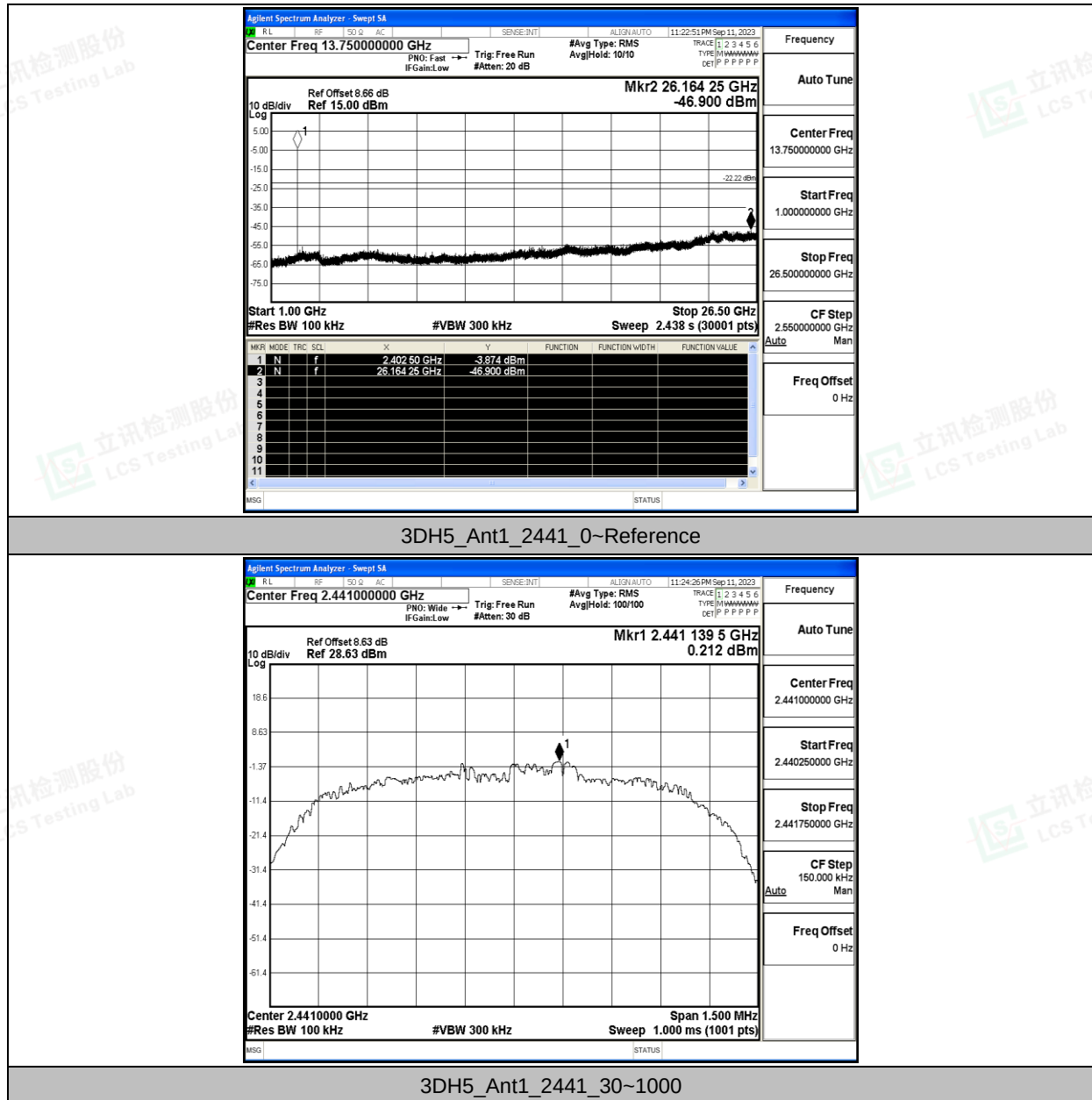


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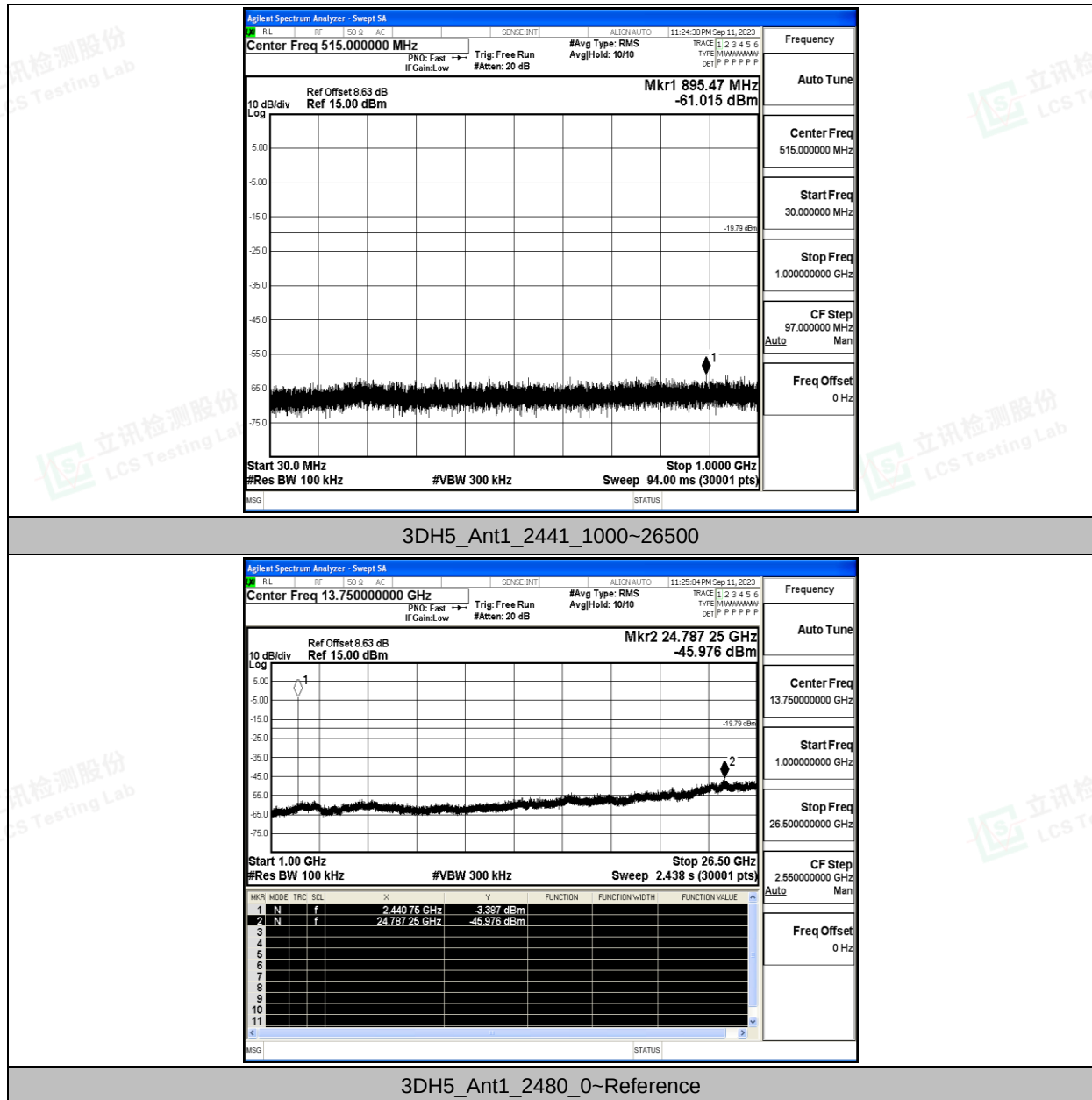


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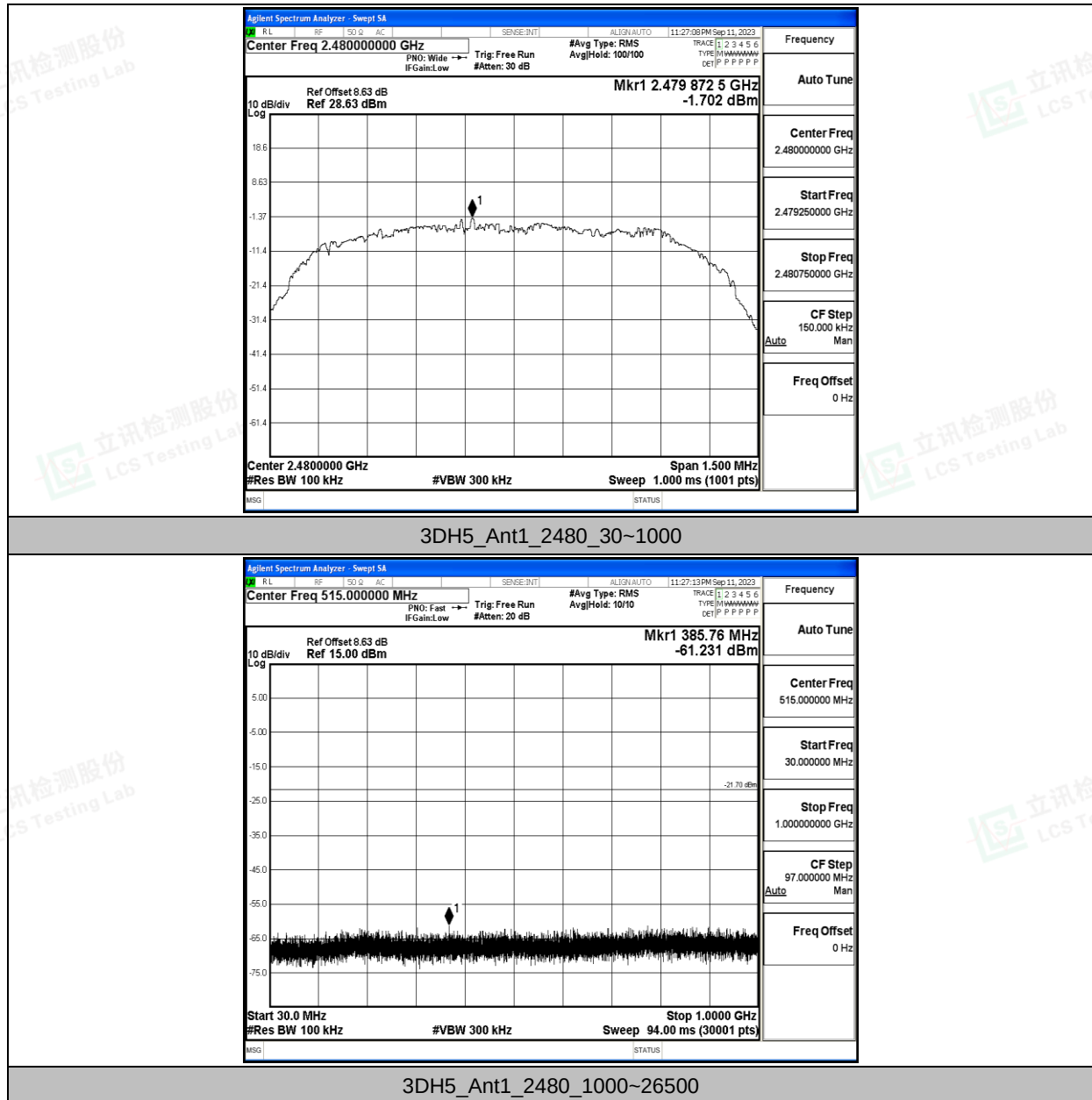


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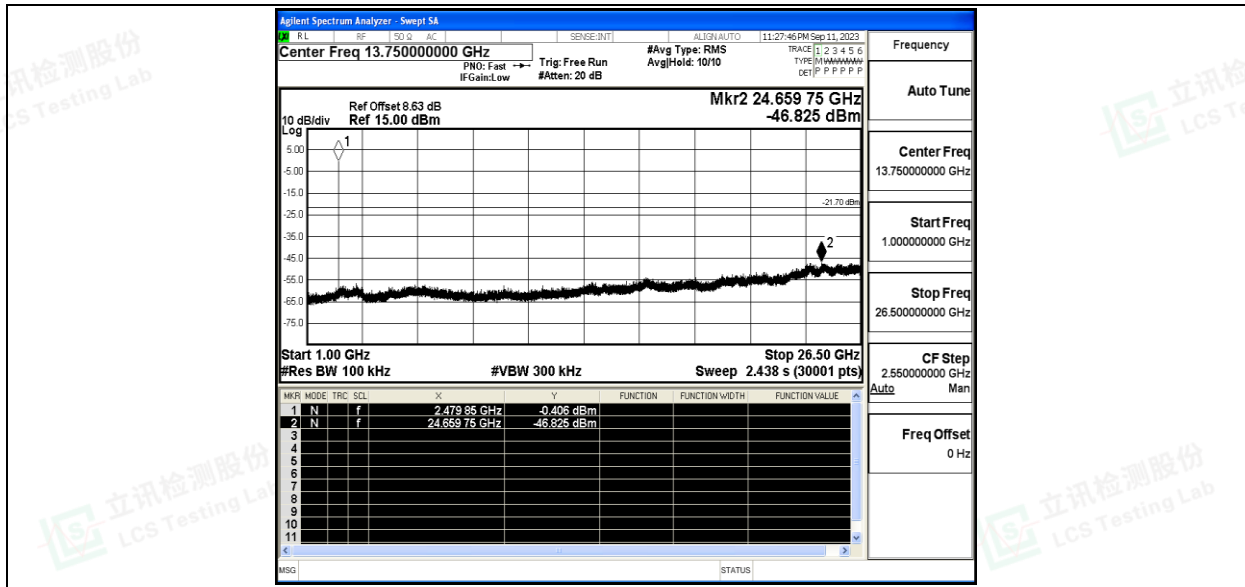


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2380.535	-47.72	≤-41.20	47.48	≤54	PASS
				AV	2390.000	-47.75	≤-41.20	47.45	≤54	PASS
				Peak	2310.000	-43.01	≤-21.20	52.19	≤74	PASS
				Peak	2324.675	-38.24	≤-21.20	56.96	≤74	PASS
				Peak	2390.000	-41.55	≤-21.20	53.65	≤74	PASS
		High	2480	AV	2483.500	-47.13	≤-41.20	48.07	≤54	PASS
				AV	2499.280	-47.06	≤-41.20	48.14	≤54	PASS
				AV	2500.000	-47.16	≤-41.20	48.04	≤54	PASS
				Peak	2483.500	-42.98	≤-21.20	52.22	≤74	PASS
				Peak	2493.200	-38.77	≤-21.20	56.43	≤74	PASS
				Peak	2500.000	-40.75	≤-21.20	54.45	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2389.670	-37.75	≤-21.20	57.45	≤74	PASS
				Peak	2390.000	-40.31	≤-21.20	54.89	≤74	PASS
		High	Hop_2480	Peak	2483.500	-37.43	≤-21.20	57.77	≤74	PASS
				Peak	2493.920	-36.25	≤-21.20	58.95	≤74	PASS
				Peak	2500.000	-37.91	≤-21.20	57.29	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.15	≤-41.20	47.05	≤54	PASS
				AV	2382.740	-47.66	≤-41.20	47.54	≤54	PASS
				AV	2390.000	-47.86	≤-41.20	47.34	≤54	PASS
				Peak	2310.000	-43.31	≤-21.20	51.89	≤74	PASS
				Peak	2341.685	-39.05	≤-21.20	56.15	≤74	PASS
				Peak	2390.000	-41.16	≤-21.20	54.04	≤74	PASS
		High	2480	AV	2483.500	-47.17	≤-41.20	48.03	≤54	PASS
				AV	2494.640	-47.09	≤-41.20	48.11	≤54	PASS
				AV	2500.000	-47.21	≤-41.20	47.99	≤54	PASS
				Peak	2483.500	-40.06	≤-21.20	55.14	≤74	PASS
				Peak	2486.080	-37.87	≤-21.20	57.33	≤74	PASS
				Peak	2500.000	-39.99	≤-21.20	55.21	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.43	≤-21.20	54.77	≤74	PASS
				Peak	2390.000	-37.52	≤-21.20	57.68	≤74	PASS
		High	Hop_2480	Peak	2483.500	-39.37	≤-21.20	55.83	≤74	PASS
				Peak	2492.800	-36.31	≤-21.20	58.89	≤74	PASS
				Peak	2500.000	-38.46	≤-21.20	56.74	≤74	PASS



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3DH5	Ant1	Low	2402	AV	2310.000	-48.14	≤ -41.20	47.06	≤ 54	PASS
				AV	2388.620	-47.64	≤ -41.20	47.56	≤ 54	PASS
				AV	2390.000	-47.74	≤ -41.20	47.46	≤ 54	PASS
				Peak	2310.000	-45.85	≤ -21.20	49.35	≤ 74	PASS
				Peak	2365.730	-38.71	≤ -21.20	56.49	≤ 74	PASS
				Peak	2390.000	-40.97	≤ -21.20	54.23	≤ 74	PASS
		High	2480	AV	2483.500	-47.08	≤ -41.20	48.12	≤ 54	PASS
				AV	2499.840	-47.01	≤ -41.20	48.19	≤ 54	PASS
				AV	2500.000	-47.1	≤ -41.20	48.10	≤ 54	PASS
				Peak	2483.500	-40.52	≤ -21.20	54.68	≤ 74	PASS
				Peak	2497.760	-39.06	≤ -21.20	56.14	≤ 74	PASS
				Peak	2500.000	-39.43	≤ -21.20	55.77	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.03	≤ -21.20	56.17	≤ 74	PASS
				Peak	2357.960	-37.29	≤ -21.20	57.91	≤ 74	PASS
				Peak	2390.000	-40.28	≤ -21.20	54.92	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-38.2	≤ -21.20	57.00	≤ 74	PASS
				Peak	2495.840	-35.78	≤ -21.20	59.42	≤ 74	PASS
				Peak	2500.000	-39.11	≤ -21.20	56.09	≤ 74	PASS

Note:

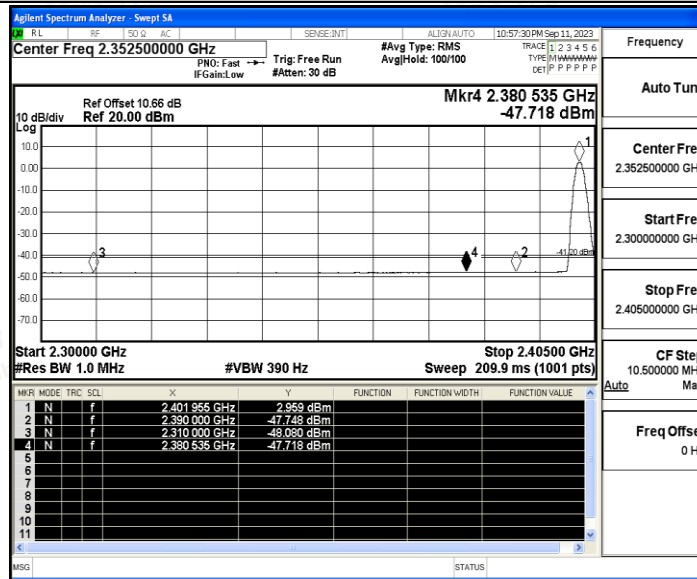
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



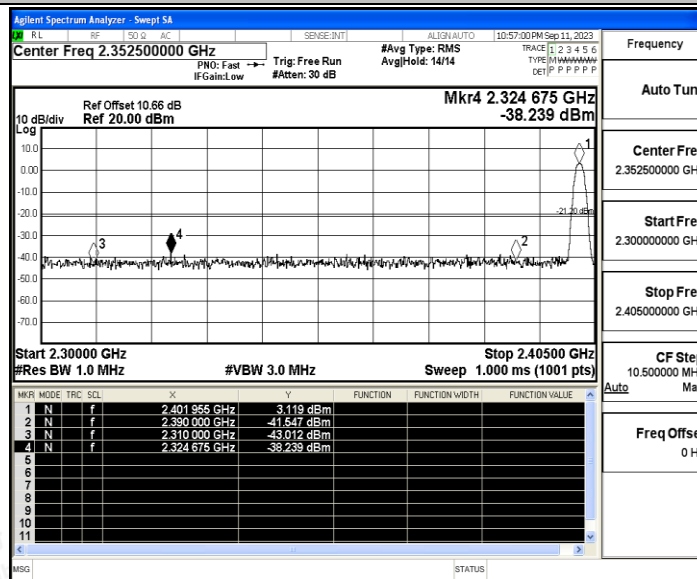


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

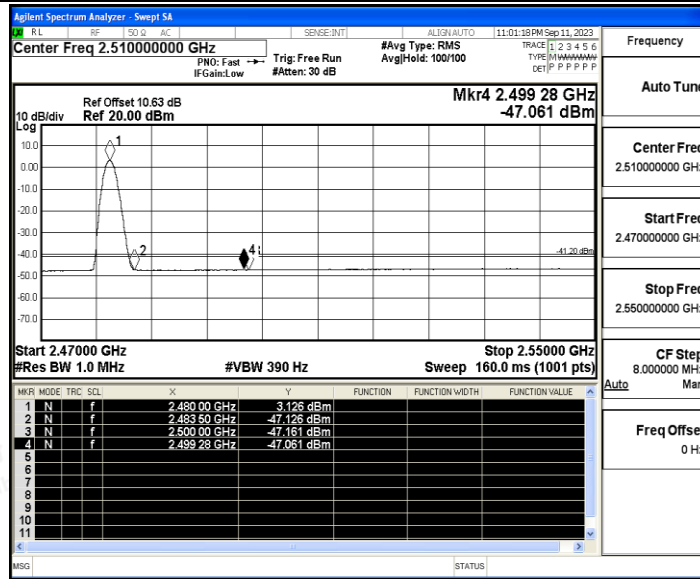


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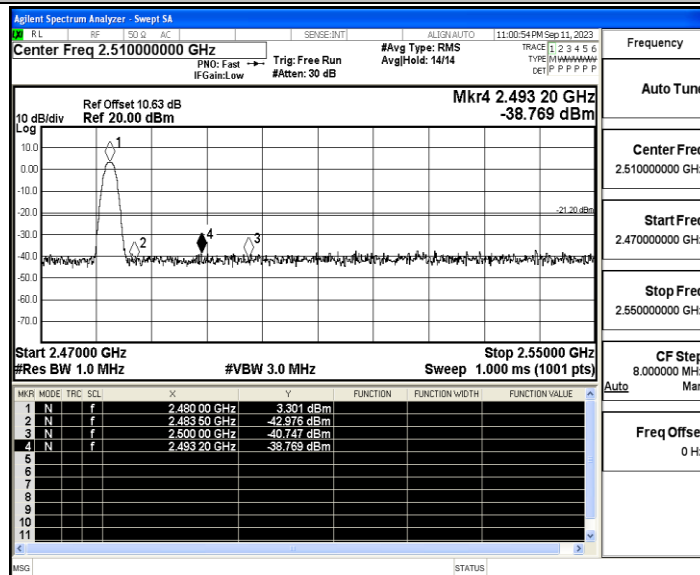
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

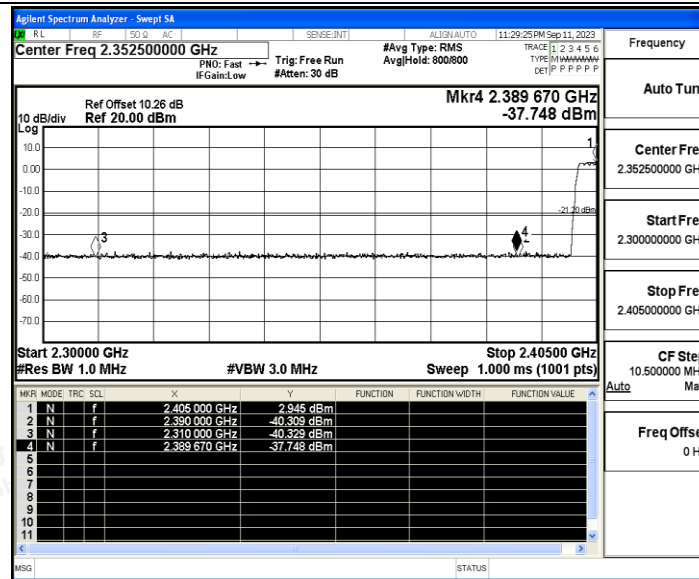


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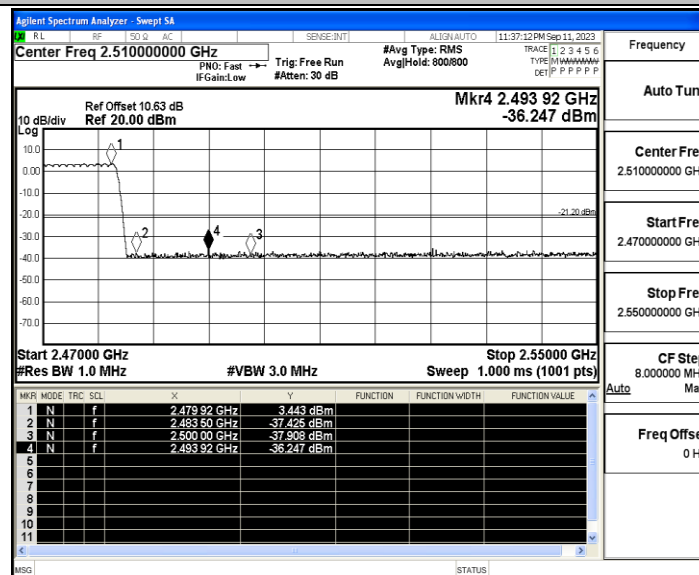
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

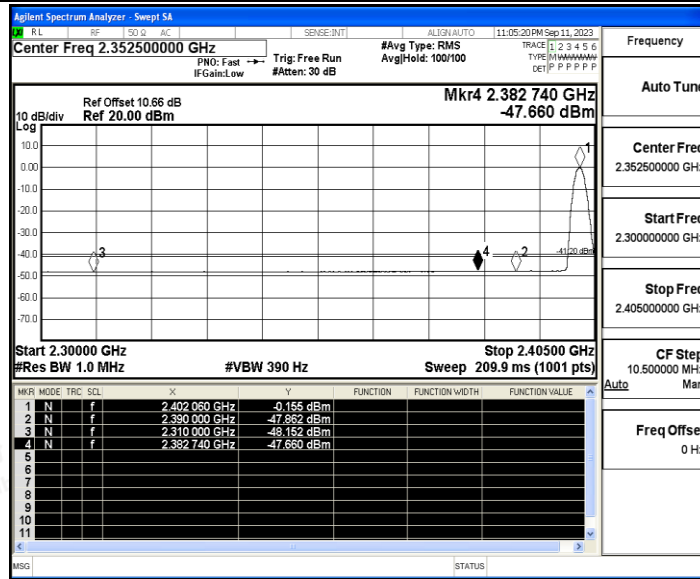


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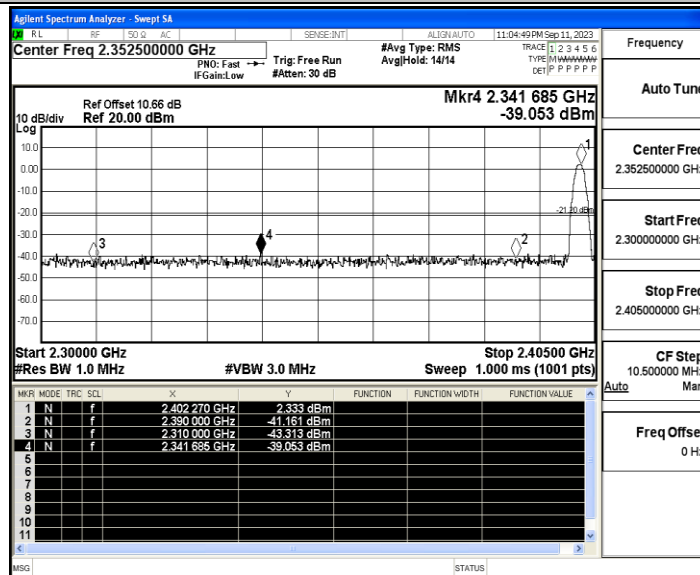
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

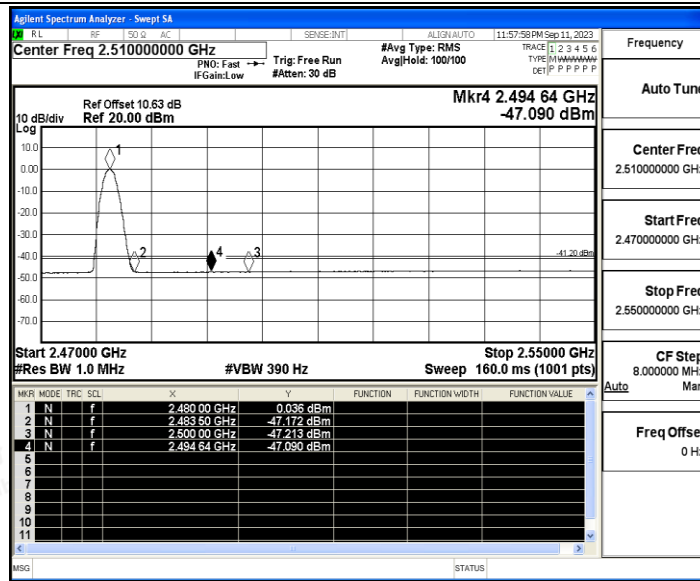


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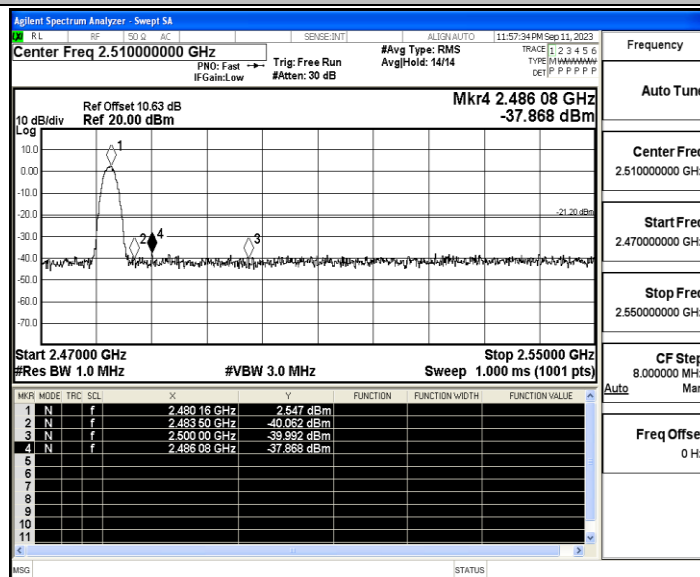
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

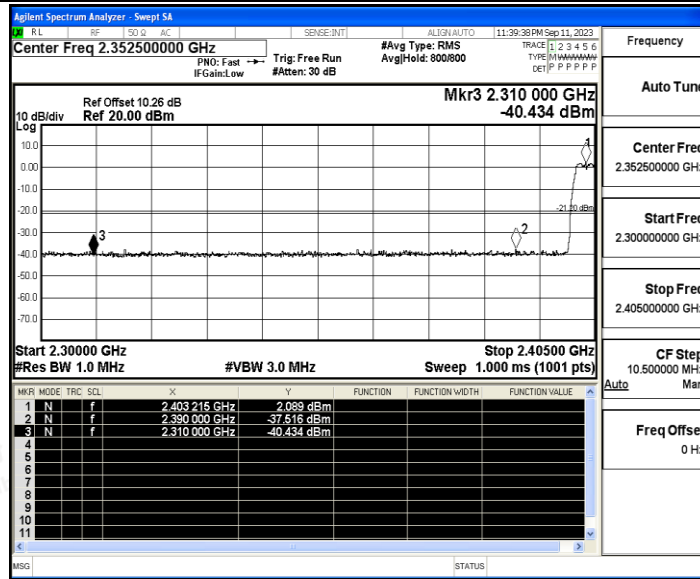


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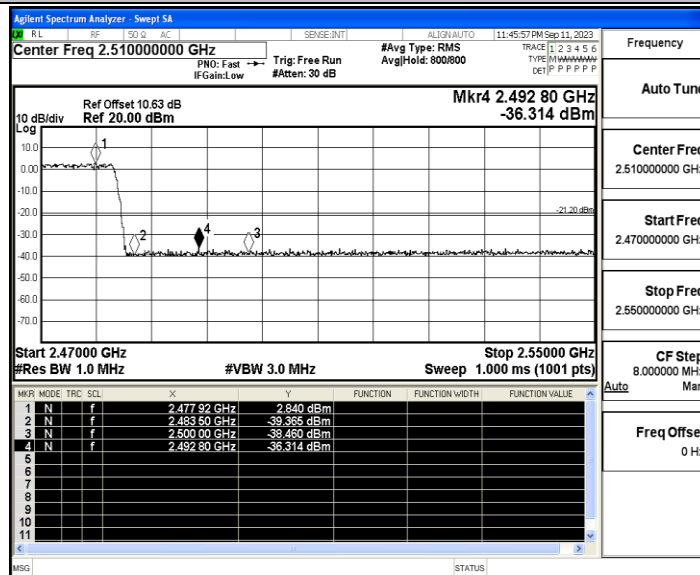
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

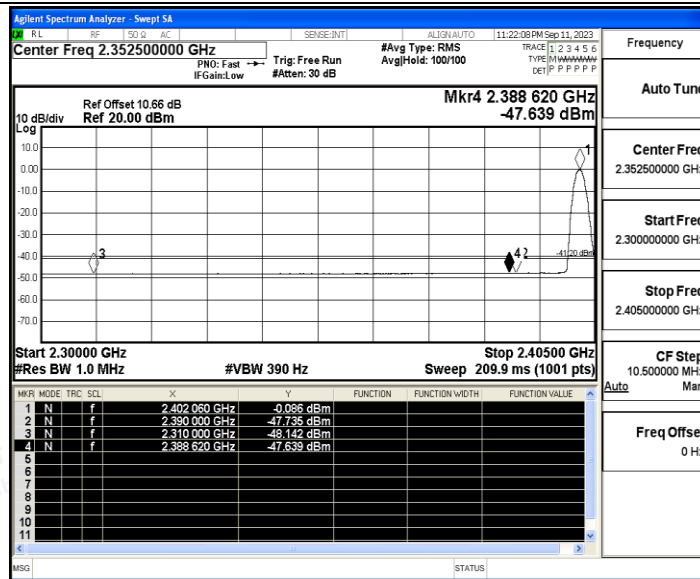


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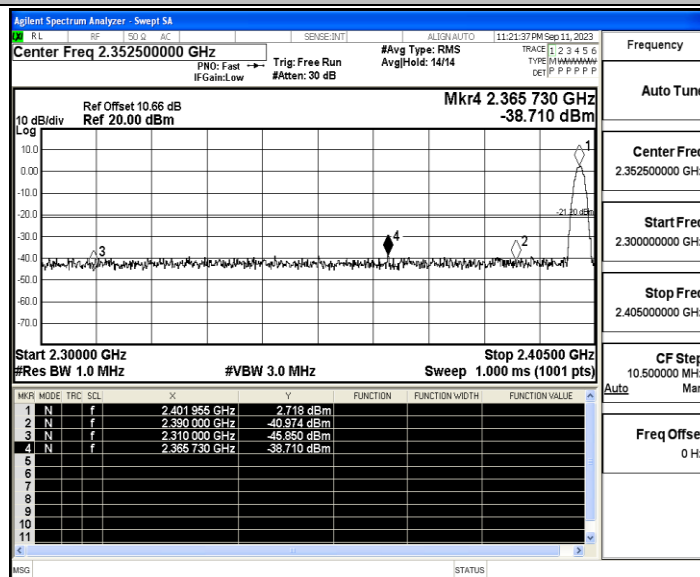
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

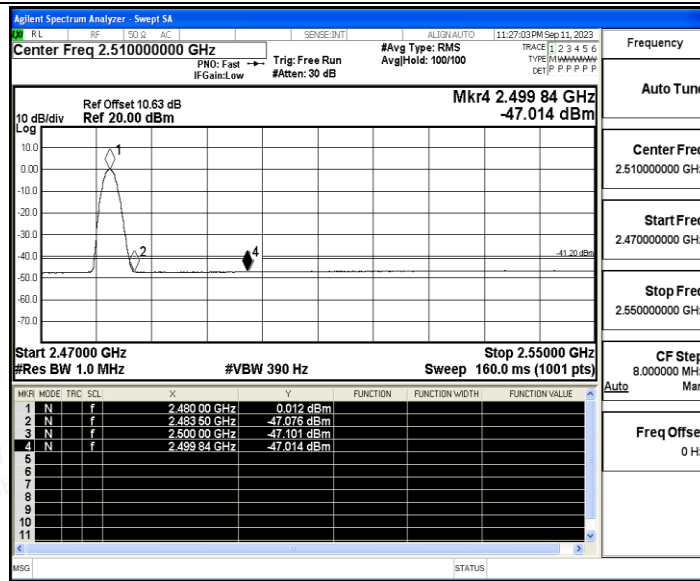


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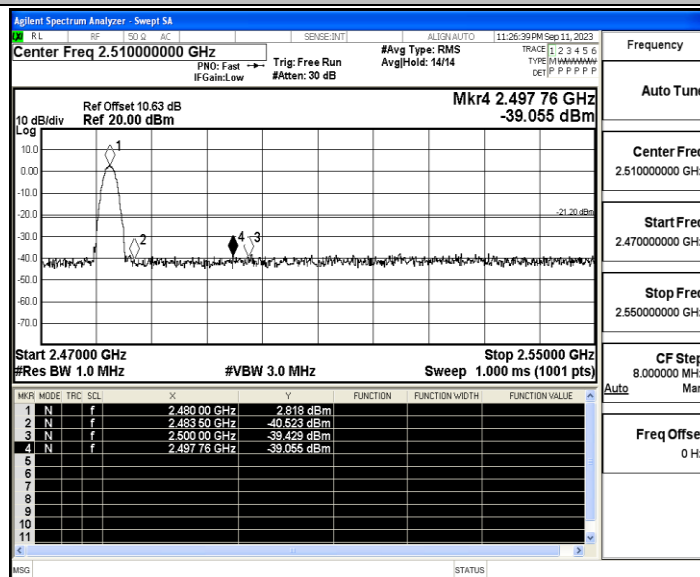
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

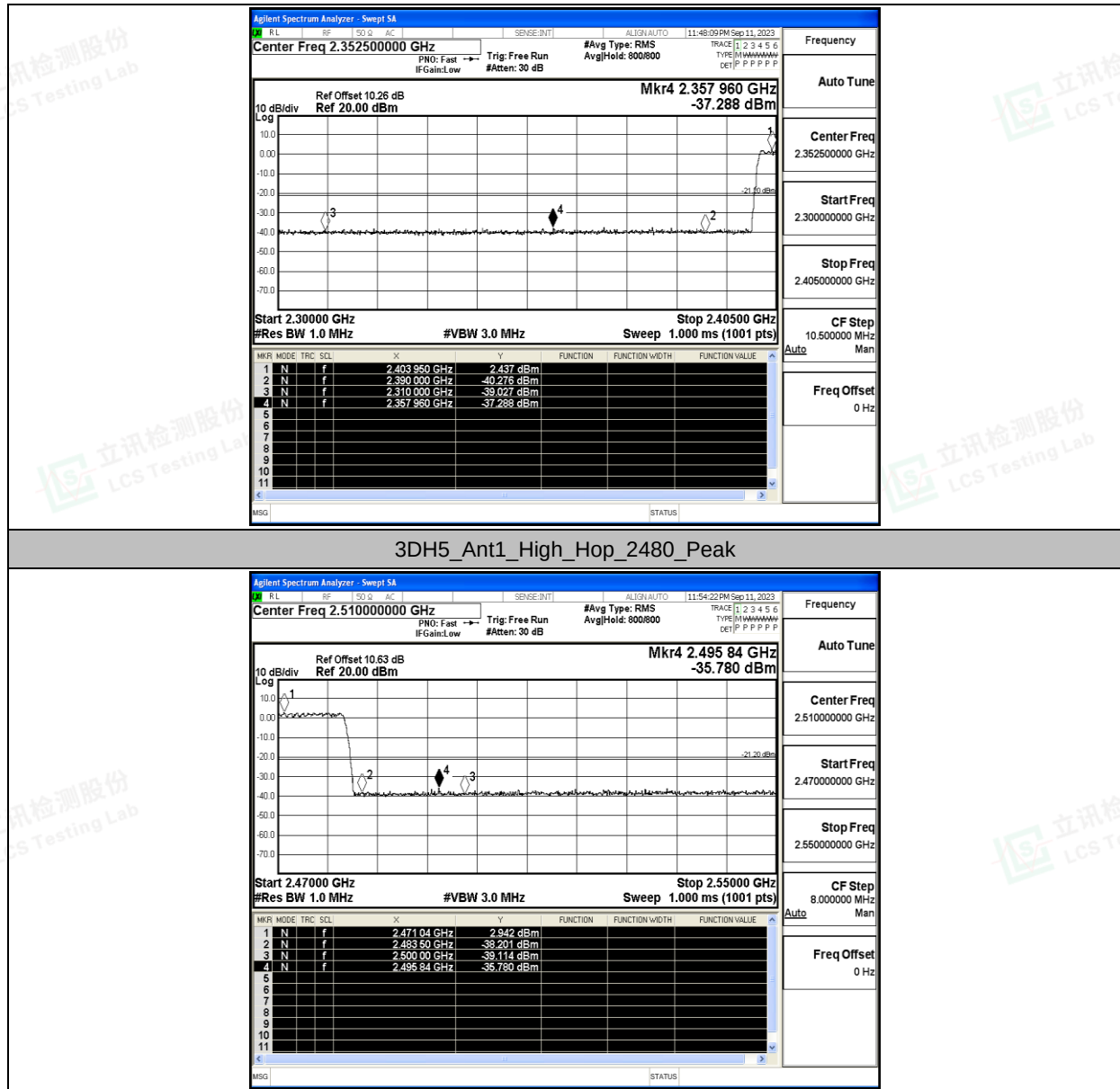


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