



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Earphones

Test Model: mblu Blu

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

Test Result

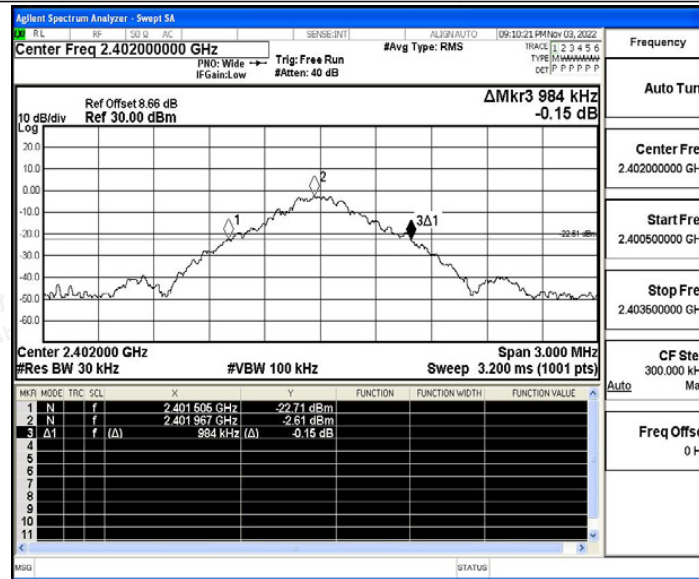
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.984	2401.505	2402.489	---
		2441	1.020	2440.469	2441.489	---
		2480	0.969	2479.511	2480.480	---
2DH5	Ant1	2402	1.287	2401.355	2402.642	---
		2441	1.320	2440.325	2441.645	---
		2480	1.314	2479.328	2480.642	---
3DH5	Ant1	2402	1.293	2401.334	2402.627	---
		2441	1.302	2440.337	2441.639	---
		2480	1.299	2479.328	2480.627	---



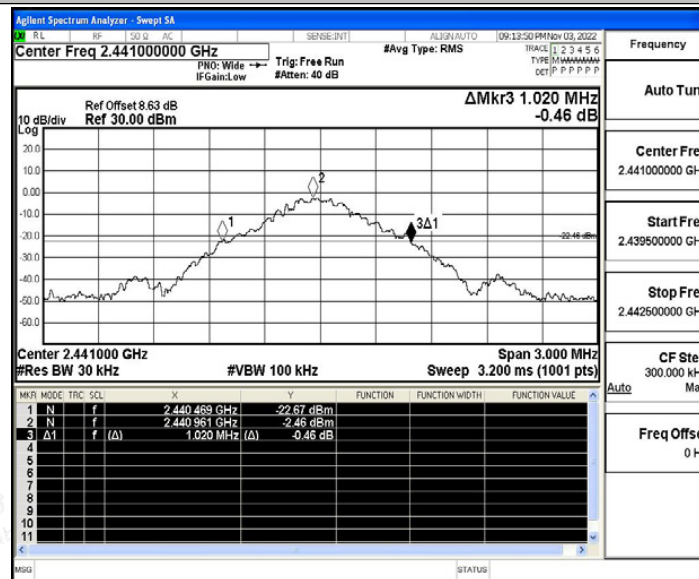


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

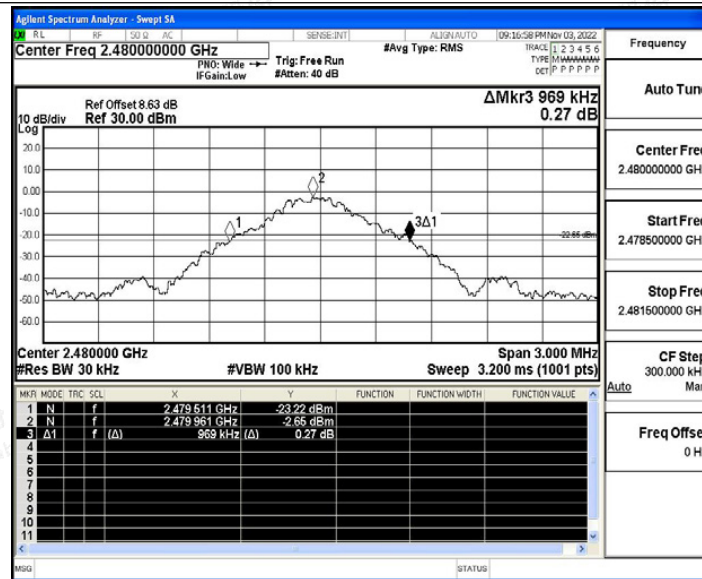


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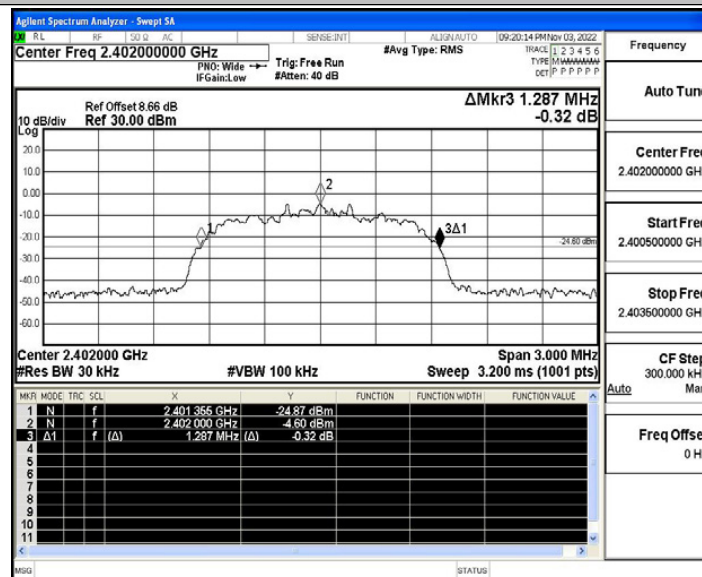
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

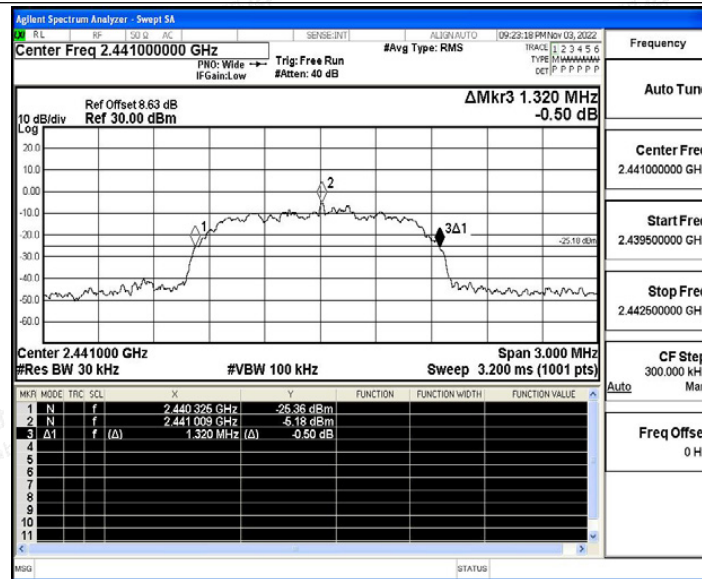


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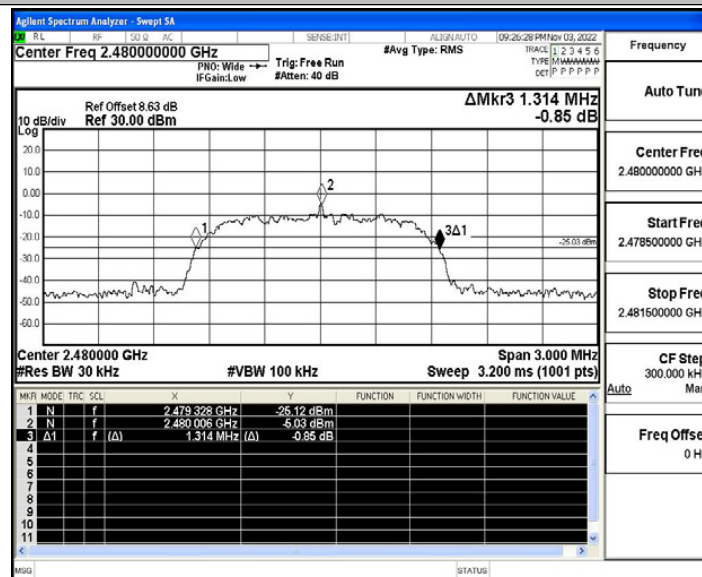
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2DH5_Ant1_2480



3DH5_Ant1_2402

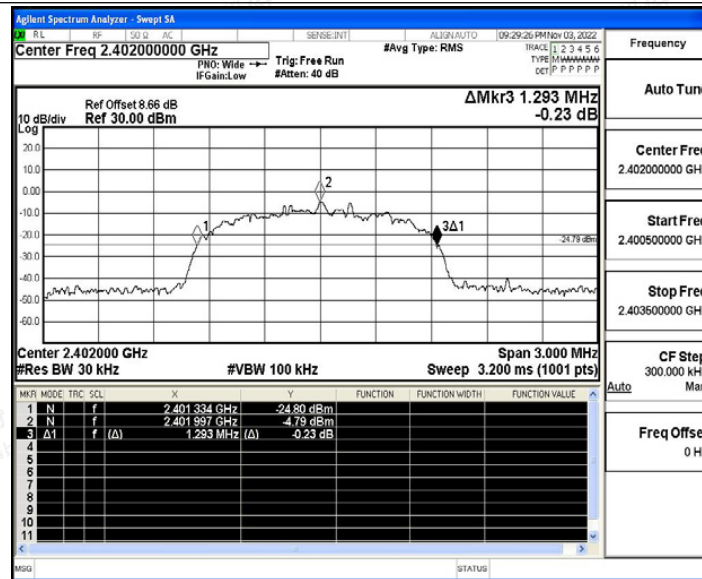


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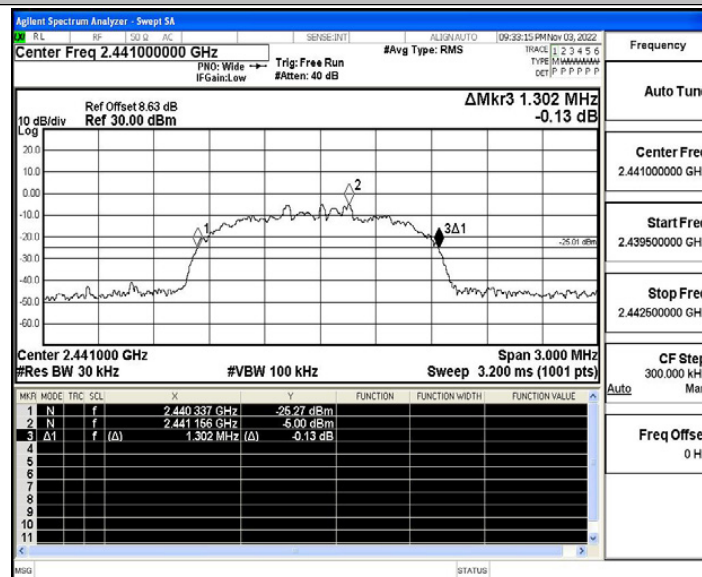
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3DH5_Ant1_2441



3DH5_Ant1_2480

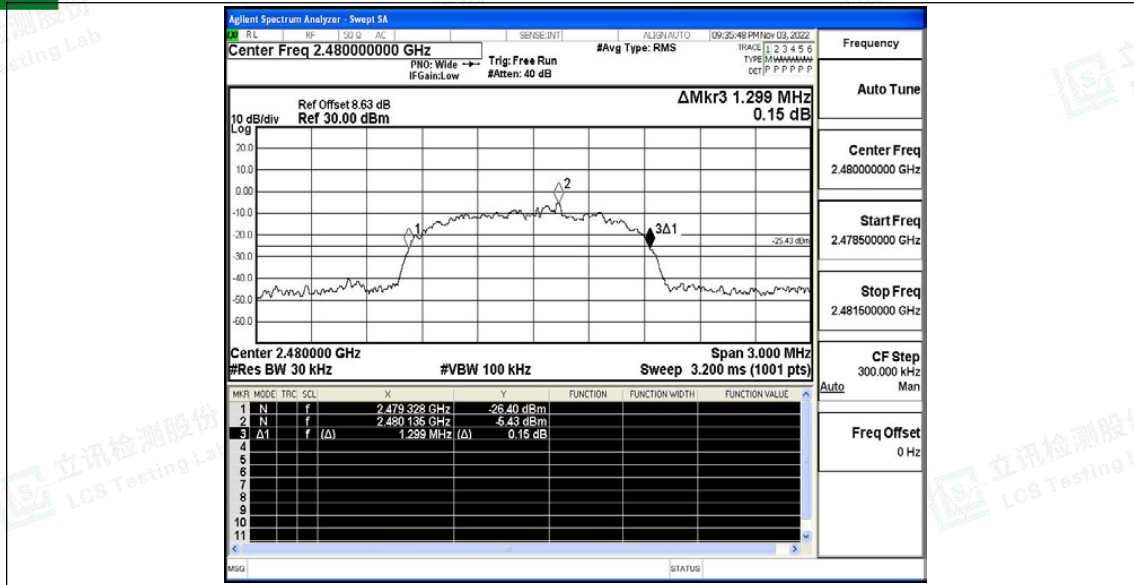


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A.2 Maximum conducted output power

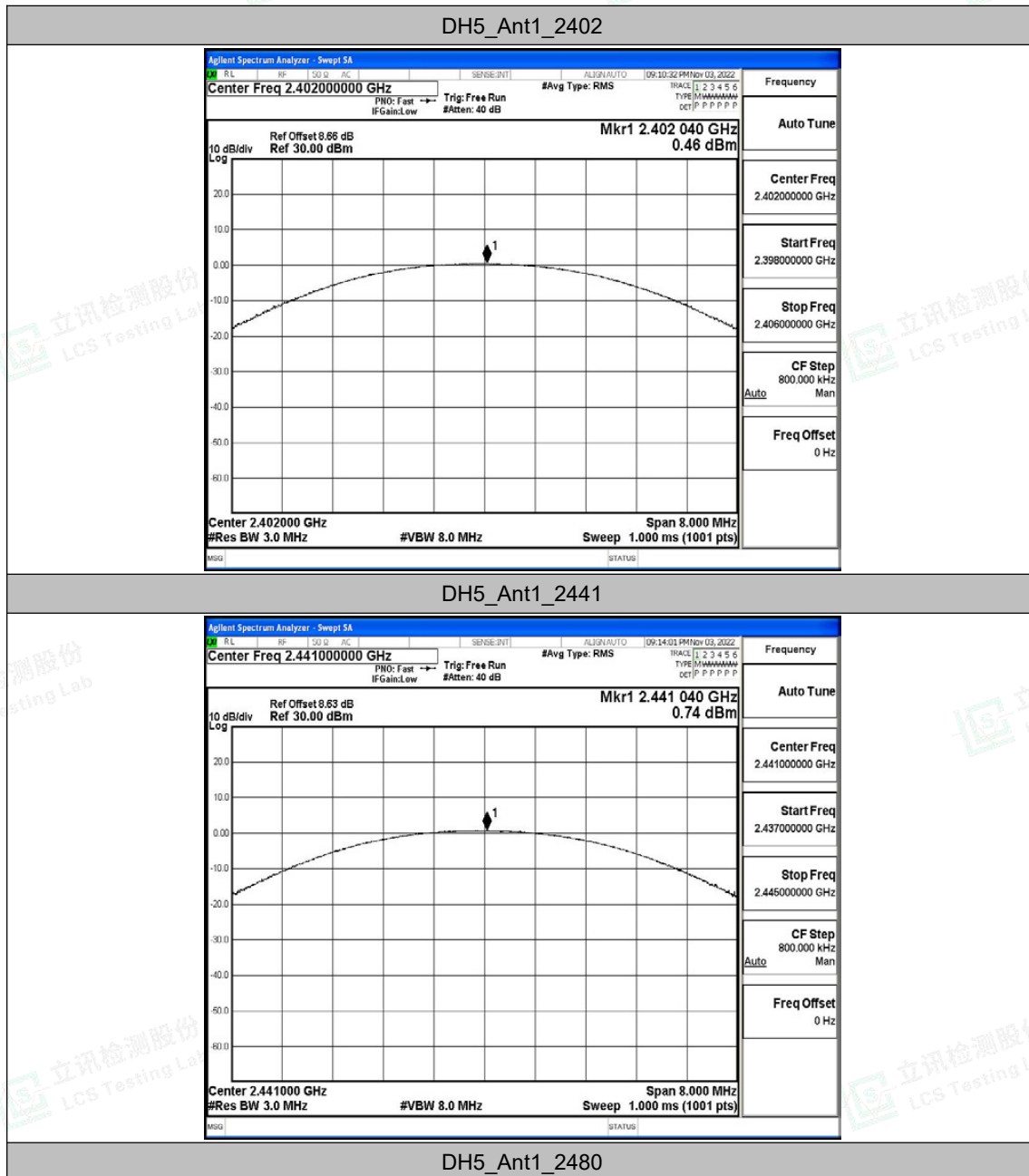
Test Result

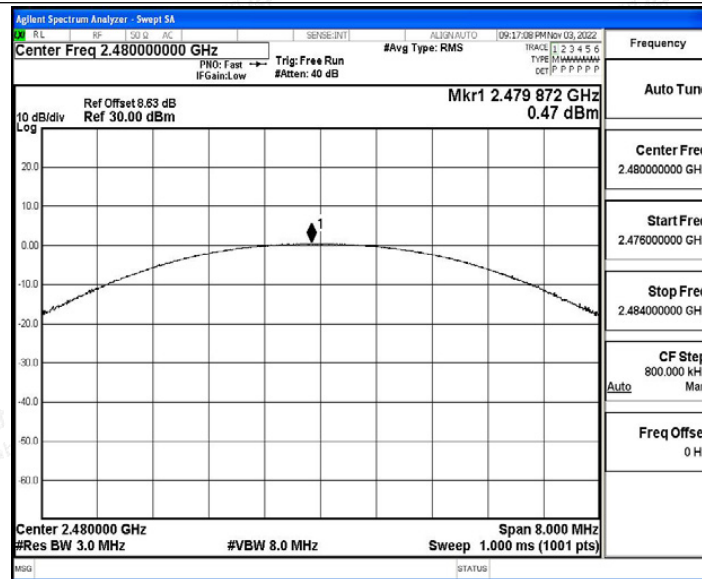
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.46	≤20.97	PASS
		2441	0.74	≤20.97	PASS
		2480	0.47	≤20.97	PASS
2DH5	Ant1	2402	0.23	≤20.97	PASS
		2441	0.18	≤20.97	PASS
		2480	-0.02	≤20.97	PASS
3DH5	Ant1	2402	0.25	≤20.97	PASS
		2441	0.32	≤20.97	PASS
		2480	0.18	≤20.97	PASS



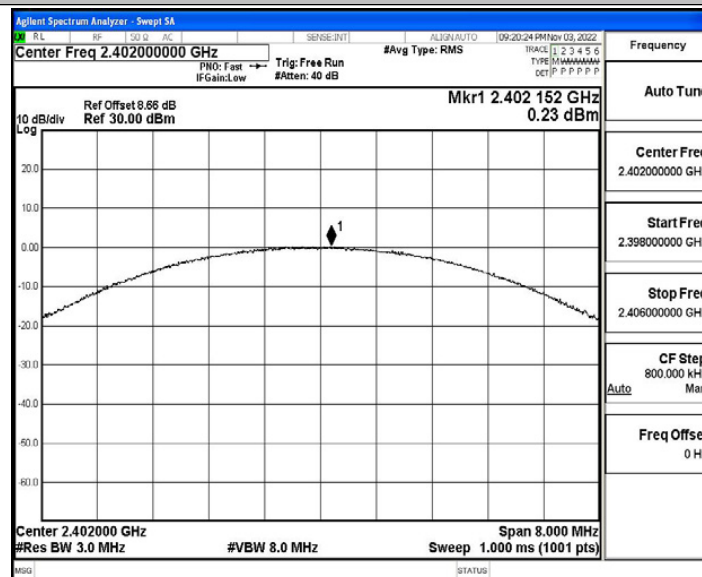


Test Graphs



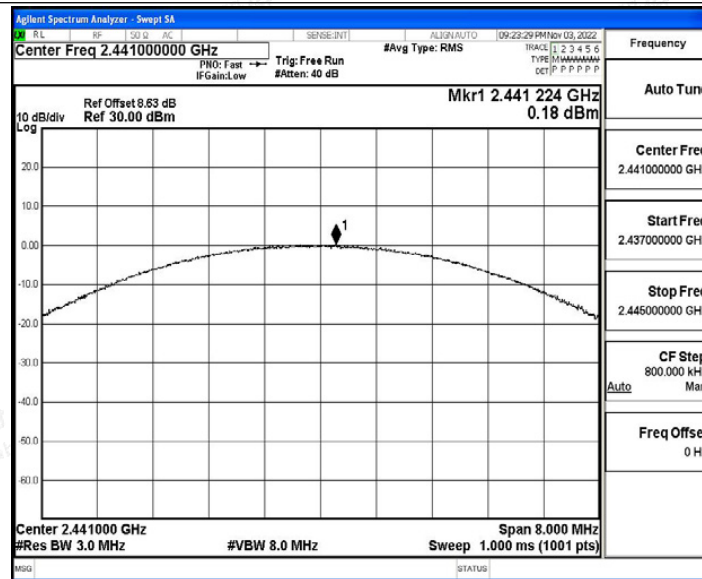


2DH5_Ant1_2402

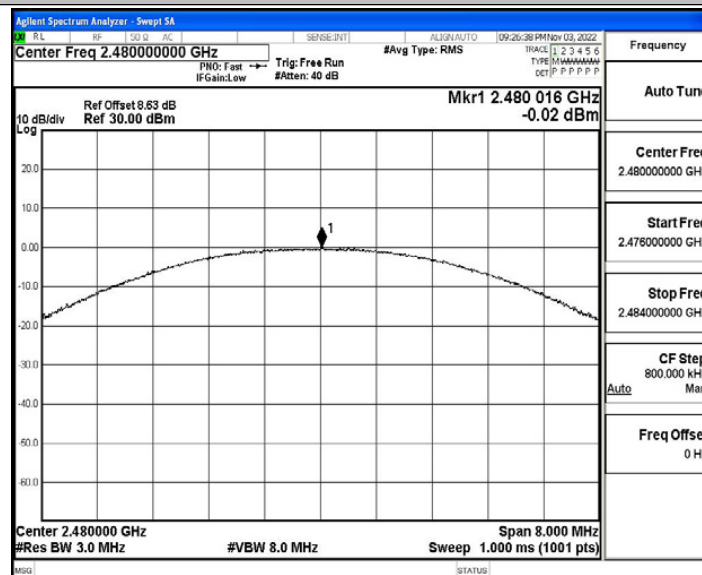


2DH5_Ant1_2441



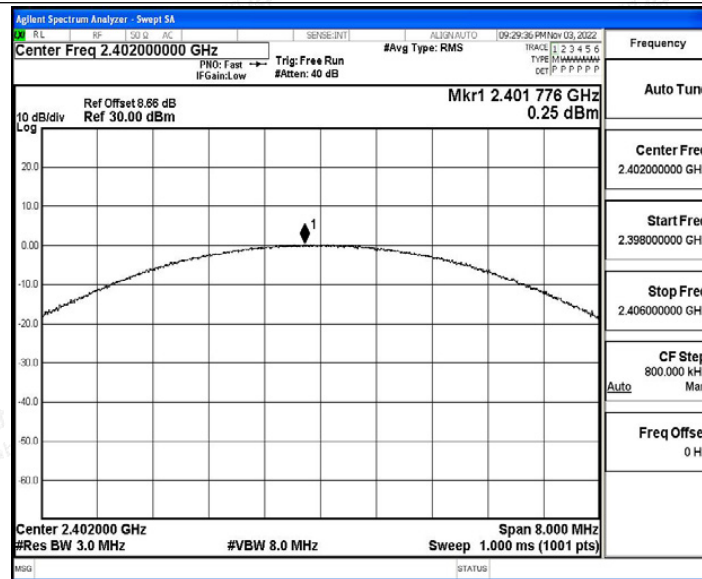


2DH5_Ant1_2480

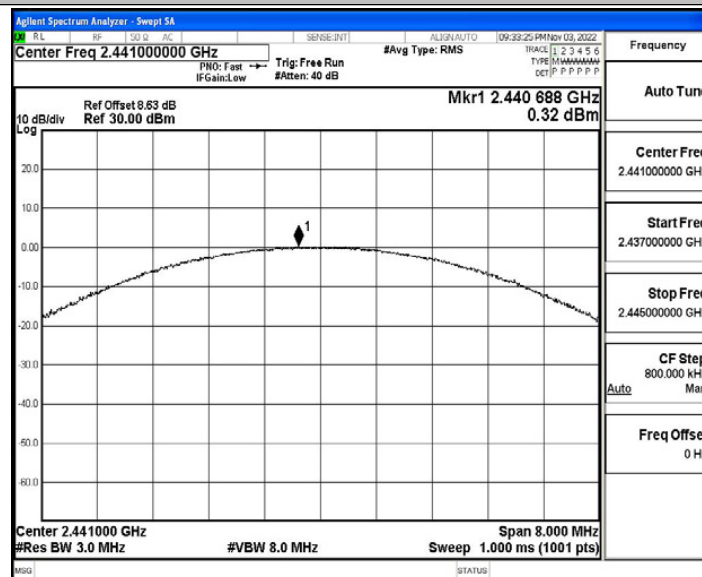


3DH5_Ant1_2402



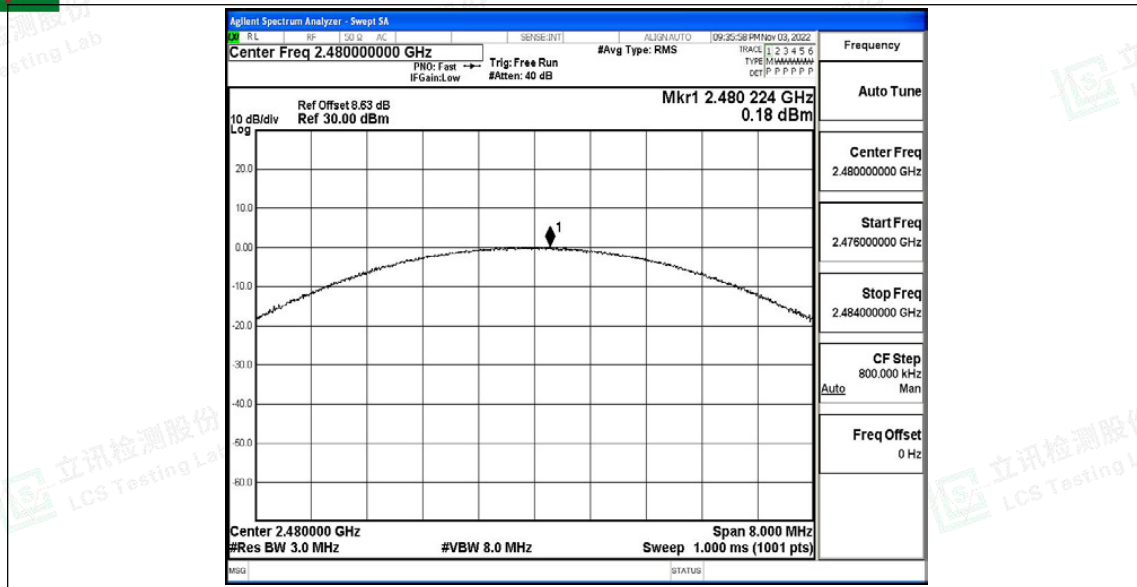


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.06	≥0.680	PASS
2DH5	Ant1	Hop	0.96	≥0.880	PASS
3DH5	Ant1	Hop	1.356	≥0.868	PASS





Test Graphs

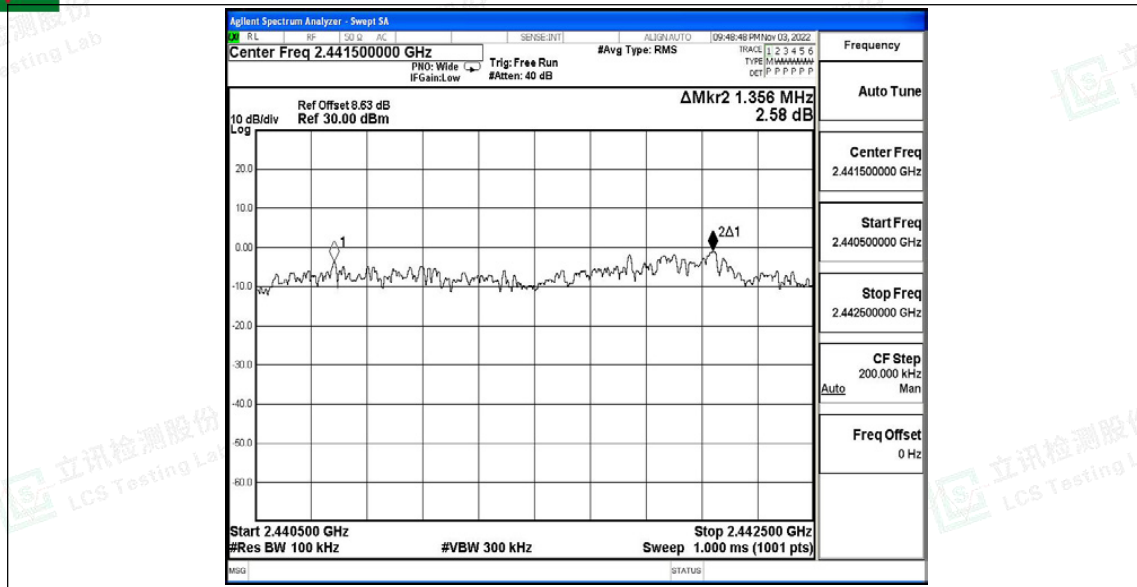


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A.4 Time of occupancy

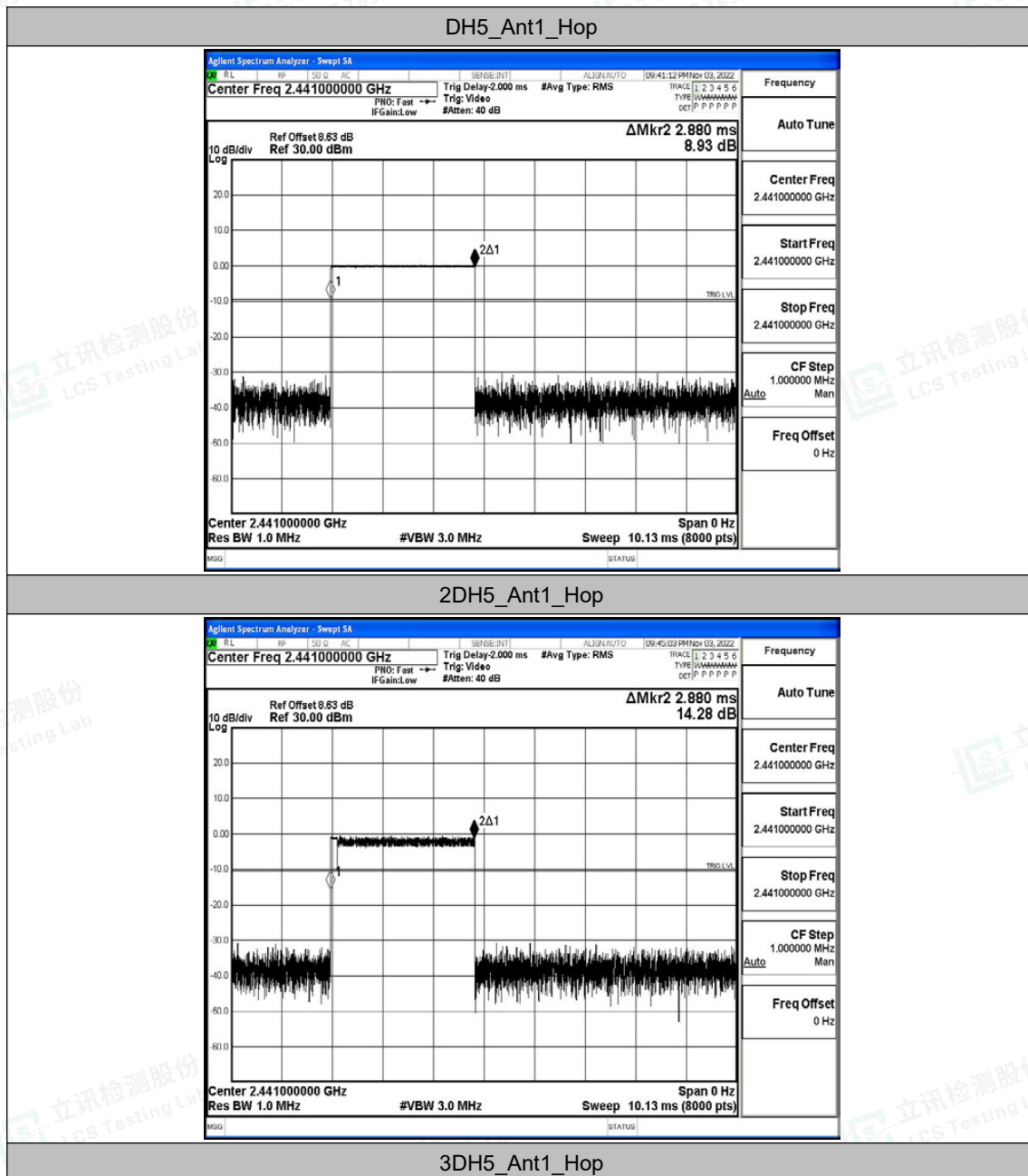
Test Result

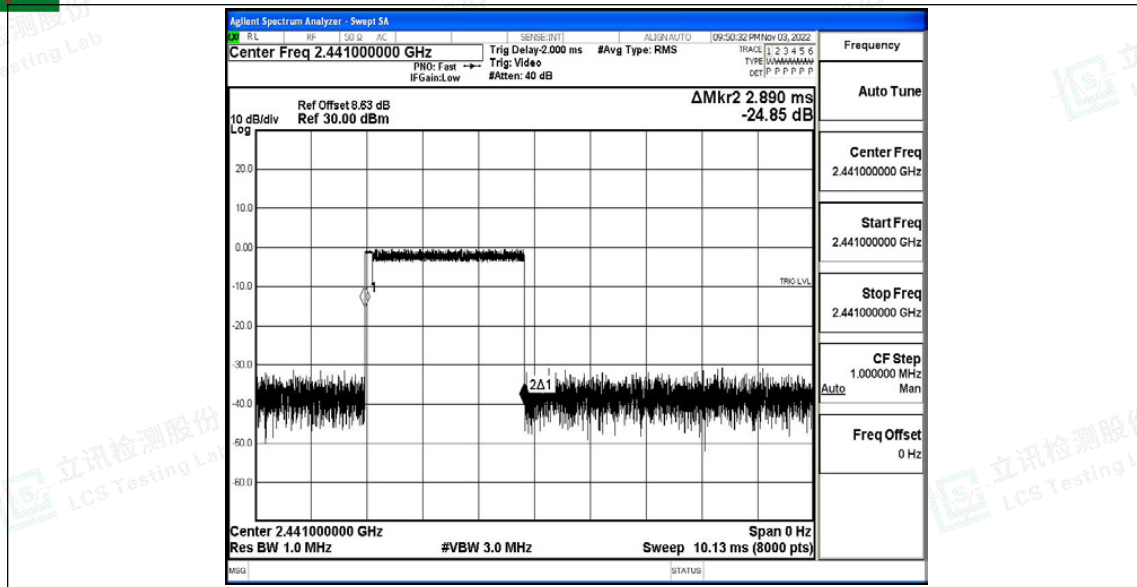
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

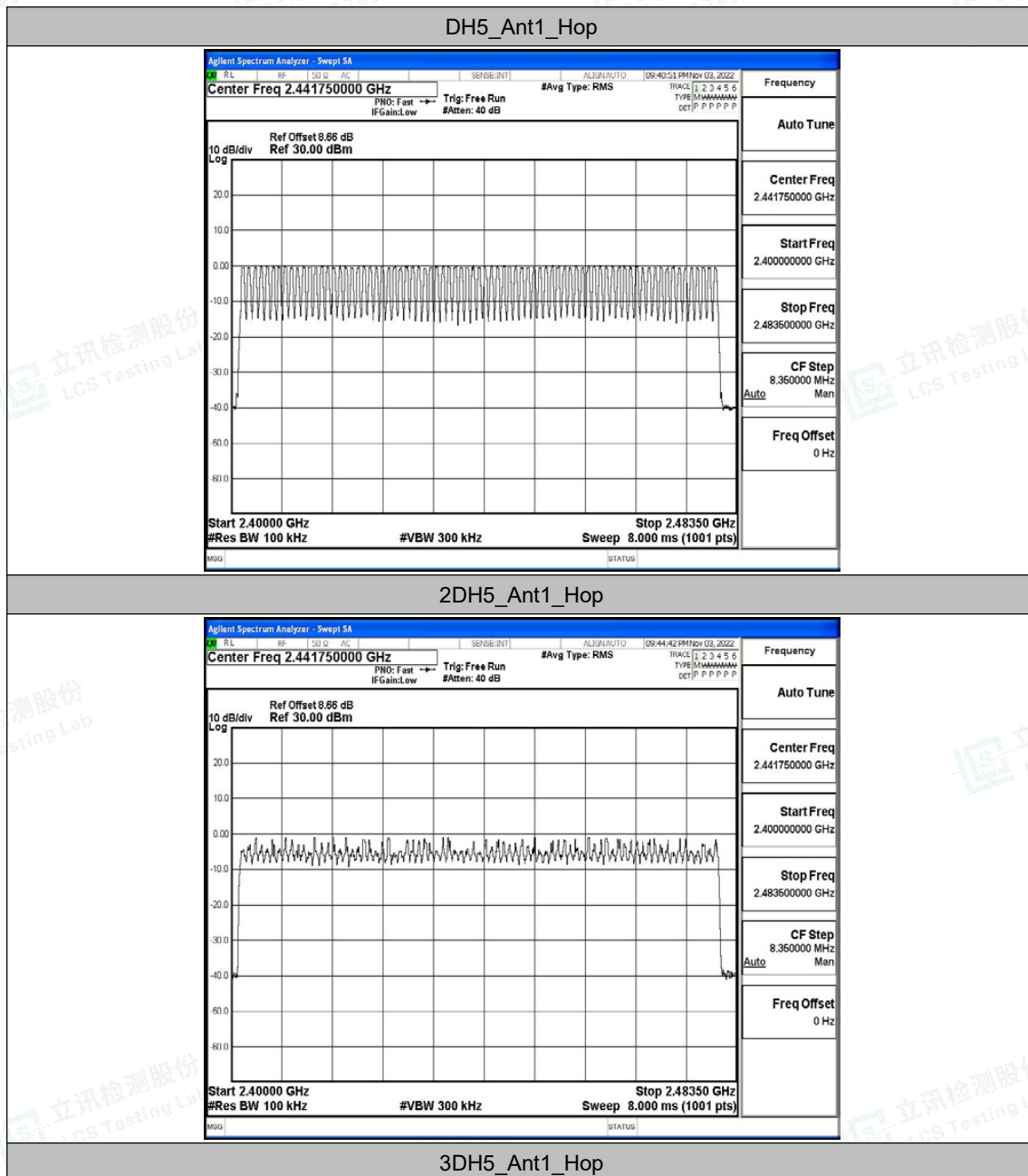
Test Result

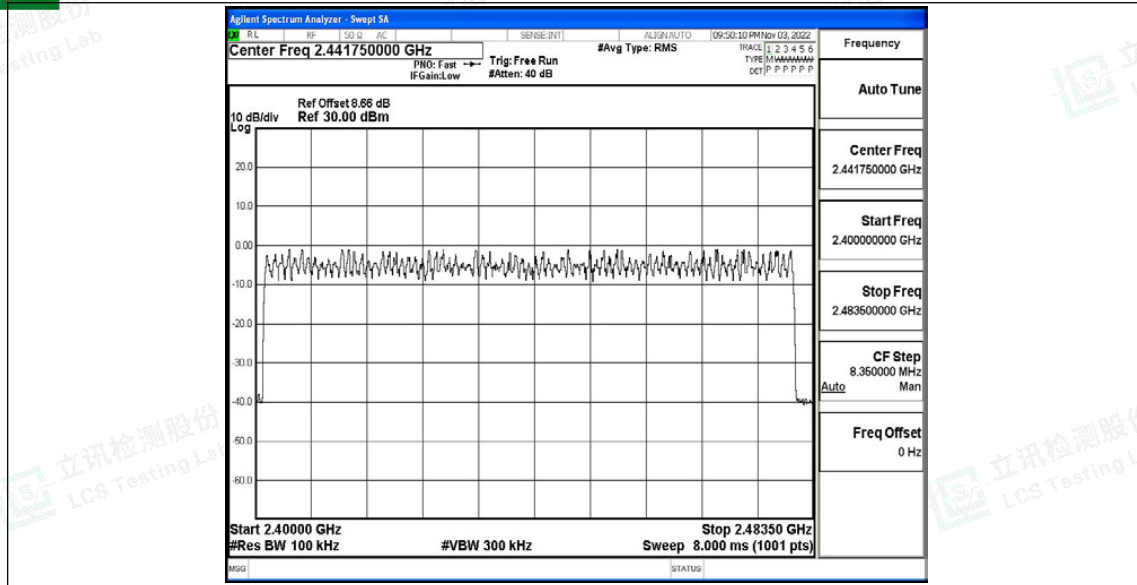
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

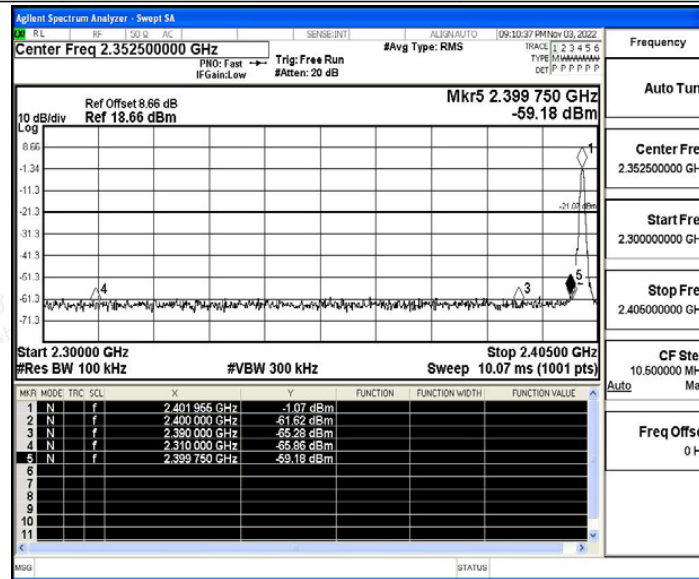
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.07	-59.18	≤ -21.07	PASS
		High	2480	-0.59	-58.81	≤ -20.59	PASS
		Low	Hop_2402	-0.85	-59.09	≤ -20.85	PASS
		High	Hop_2480	-0.26	-38.61	≤ -20.26	PASS
2DH5	Ant1	Low	2402	-4.93	-57.43	≤ -24.93	PASS
		High	2480	-5.11	-59.44	≤ -25.11	PASS
		Low	Hop_2402	-5.26	-59.17	≤ -25.26	PASS
		High	Hop_2480	-1.84	-57.63	≤ -21.84	PASS
3DH5	Ant1	Low	2402	-5.16	-58.28	≤ -25.16	PASS
		High	2480	-3.88	-58.13	≤ -23.88	PASS
		Low	Hop_2402	-1.46	-58.92	≤ -21.46	PASS
		High	Hop_2480	-3.27	-56.92	≤ -23.27	PASS



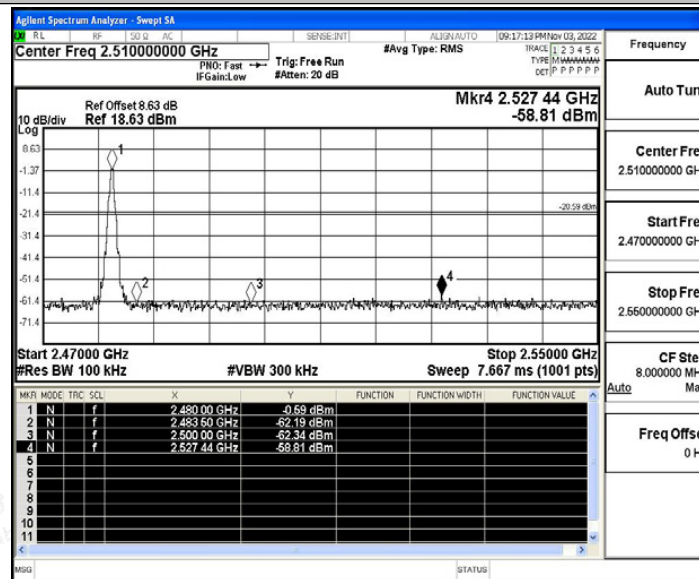


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

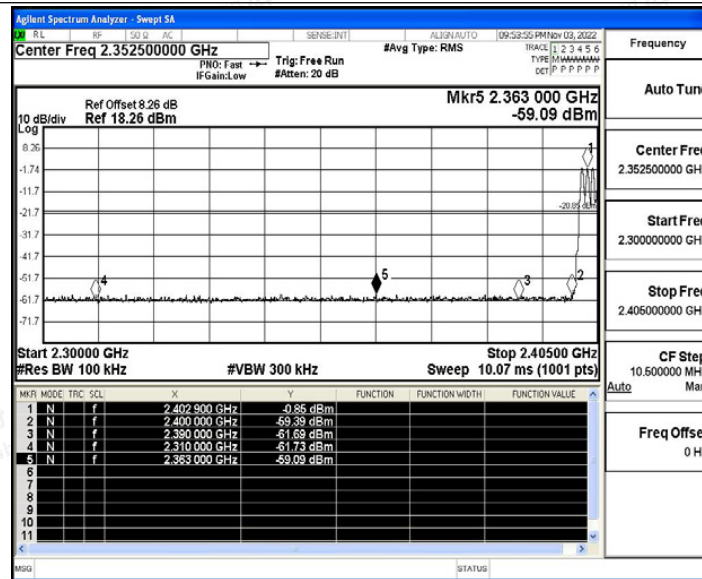


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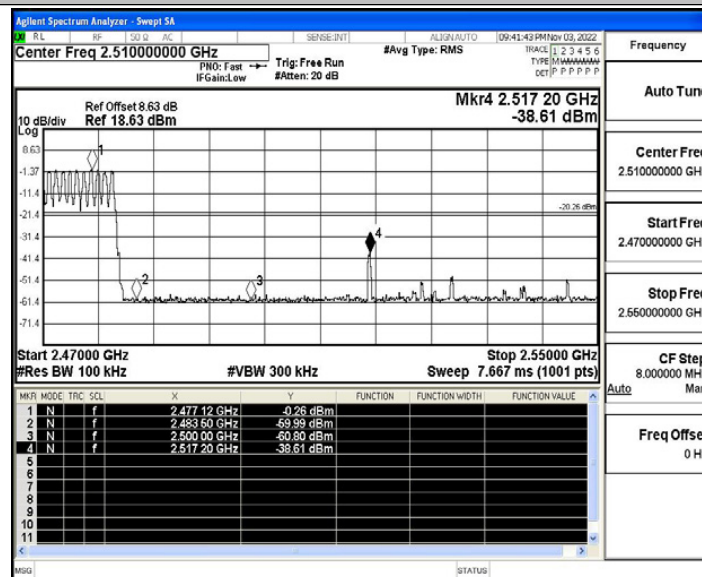
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

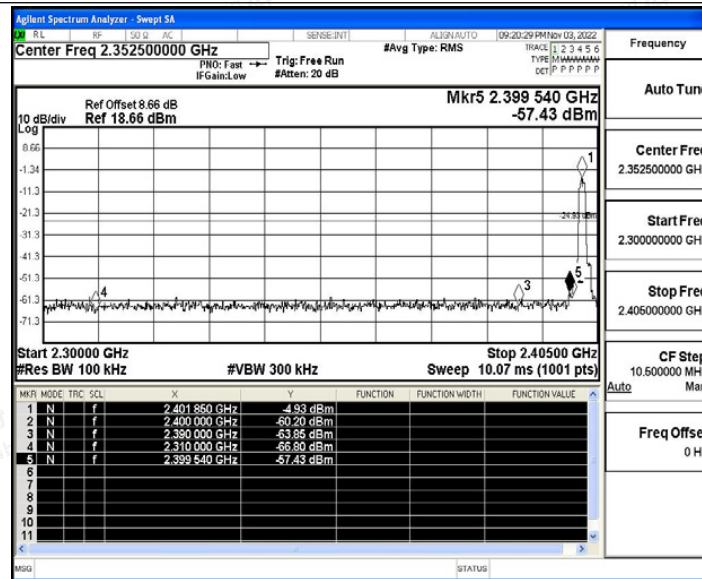


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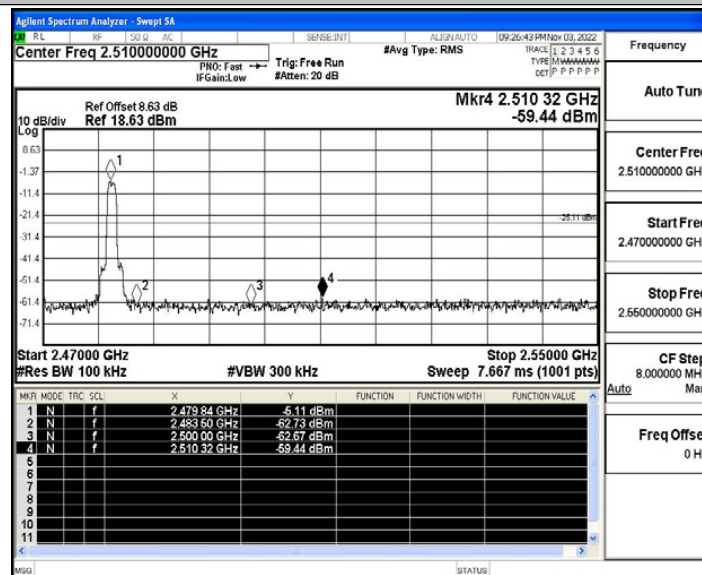
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

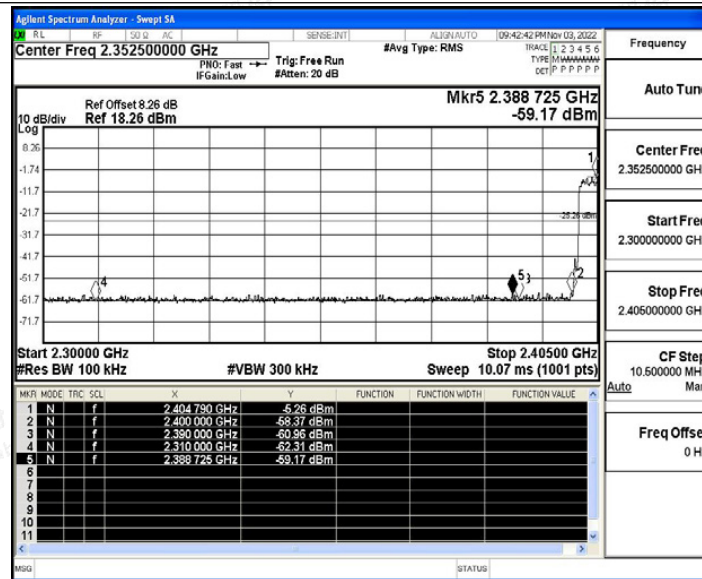


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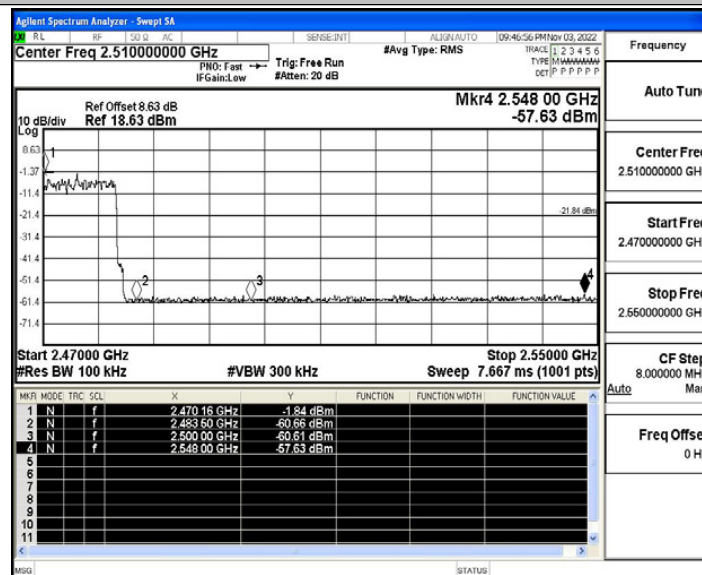
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

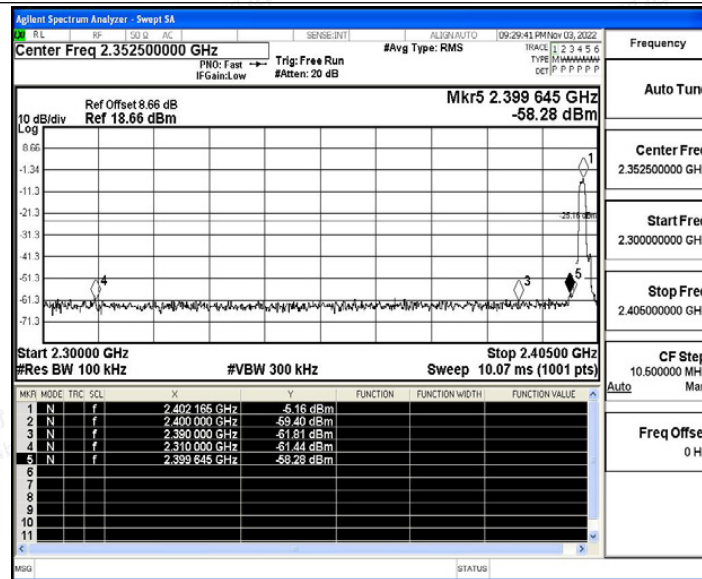


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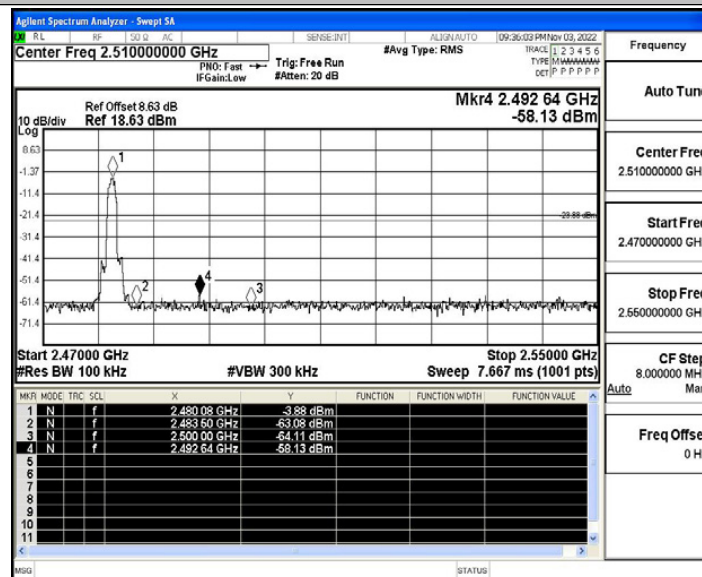
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

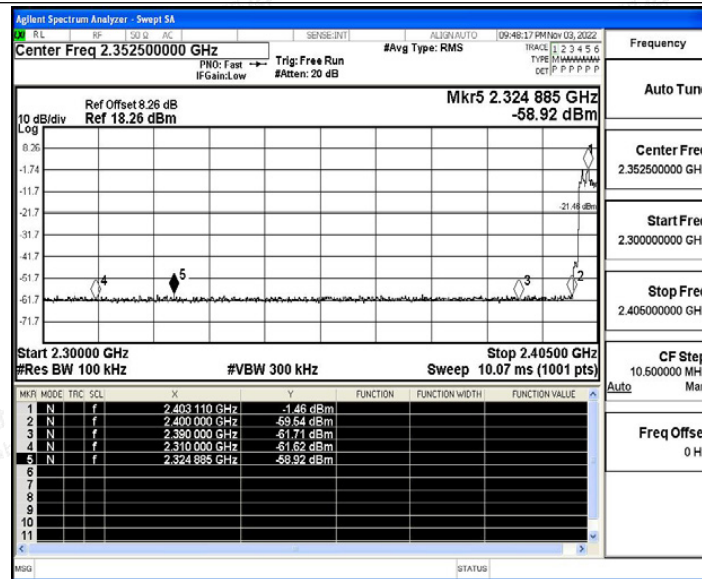


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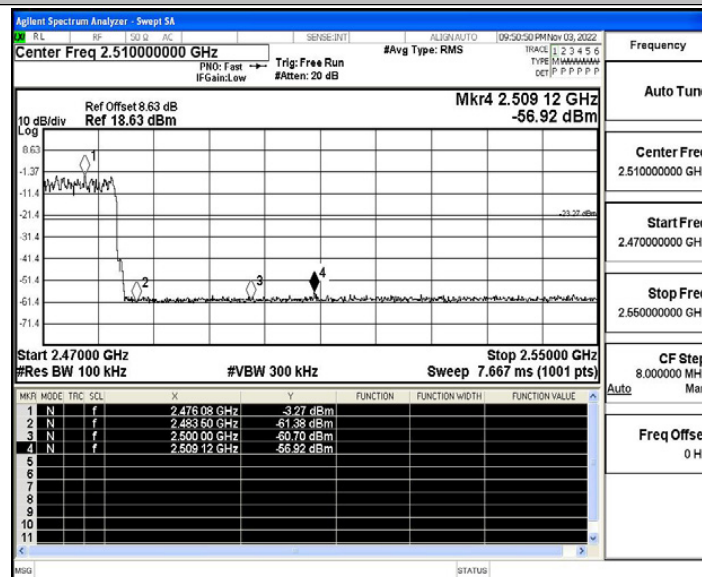
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3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

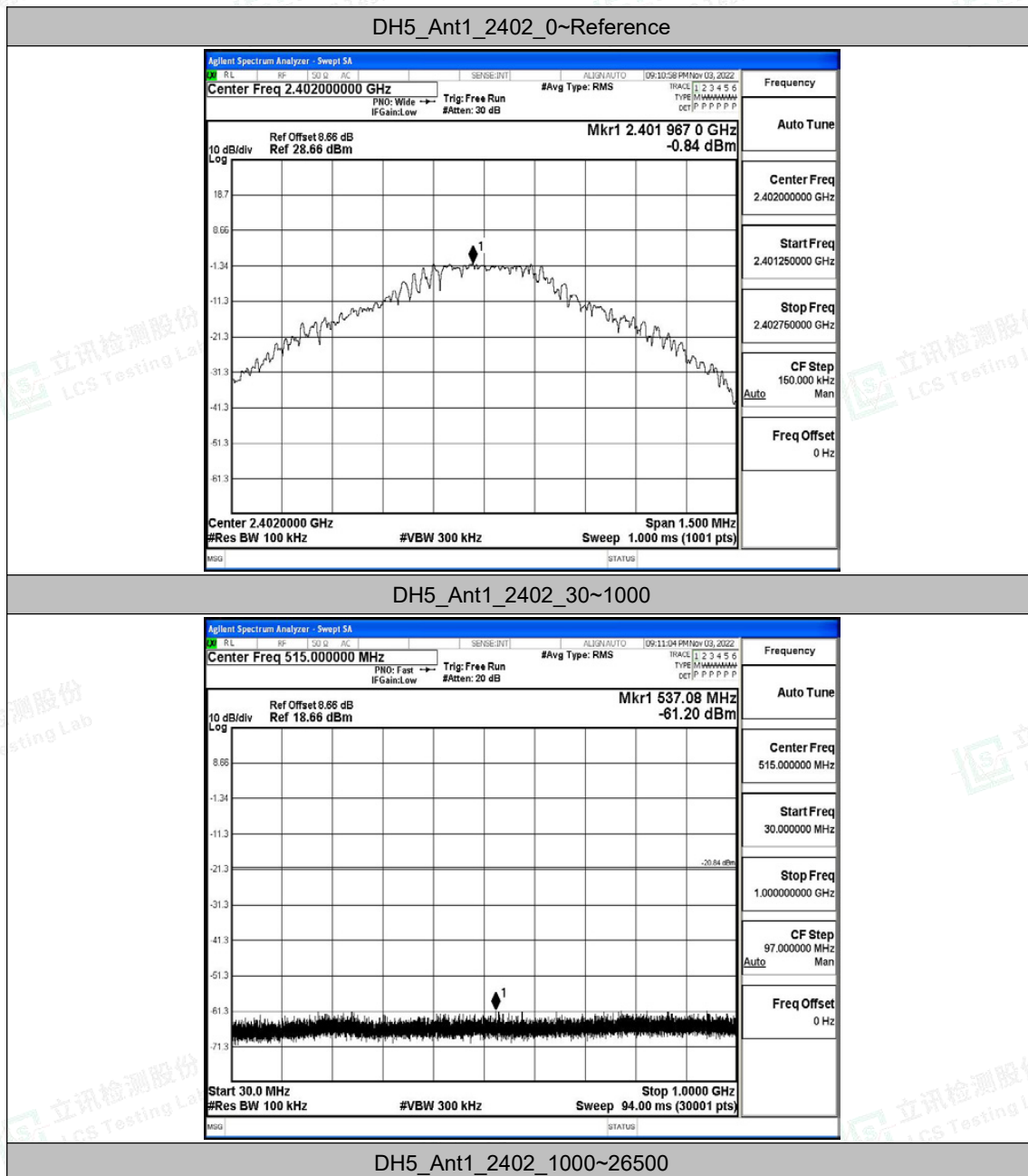
Test Result

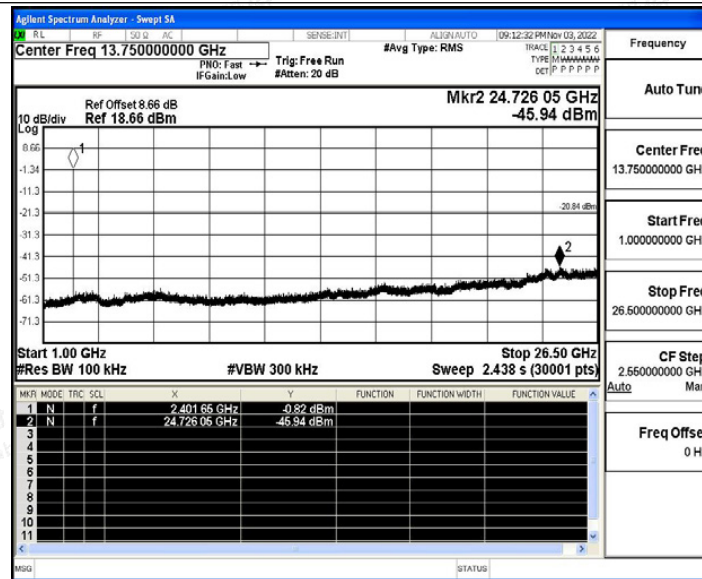
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-61.2	≤-20.84	PASS
			1000~26500	-0.84	-45.94	≤-20.84	PASS
		2441	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-59.71	≤-20.45	PASS
			1000~26500	-0.45	-45.86	≤-20.45	PASS
		2480	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-61.25	≤-20.49	PASS
			1000~26500	-0.49	-45.64	≤-20.49	PASS
2DH5	Ant1	2402	Reference	-5.21	-5.21	---	PASS
			30~1000	-5.21	-60.57	≤-25.21	PASS
			1000~26500	-5.21	-46.41	≤-25.21	PASS
		2441	Reference	-5.40	-5.40	---	PASS
			30~1000	-5.40	-60.45	≤-25.4	PASS
			1000~26500	-5.40	-46.12	≤-25.4	PASS
		2480	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-61.13	≤-25.47	PASS
			1000~26500	-5.47	-46.45	≤-25.47	PASS
3DH5	Ant1	2402	Reference	-5.08	-5.08	---	PASS
			30~1000	-5.08	-51.93	≤-25.08	PASS
			1000~26500	-5.08	-46.17	≤-25.08	PASS
		2441	Reference	-4.16	-4.16	---	PASS
			30~1000	-4.16	-60.57	≤-24.16	PASS
			1000~26500	-4.16	-46.04	≤-24.16	PASS
		2480	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-60.27	≤-25.24	PASS
			1000~26500	-5.24	-46.52	≤-25.24	PASS



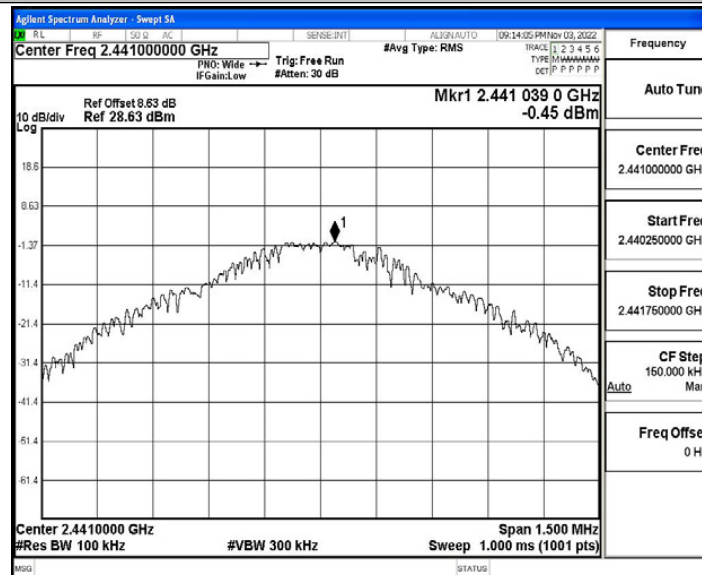


Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

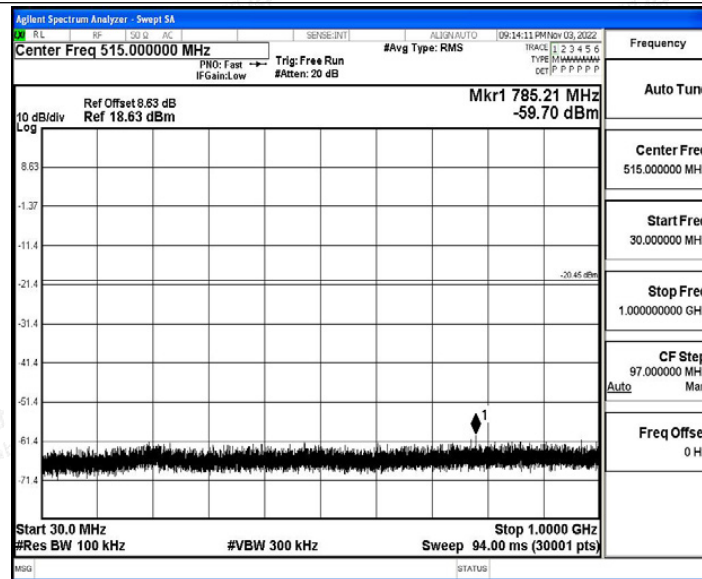


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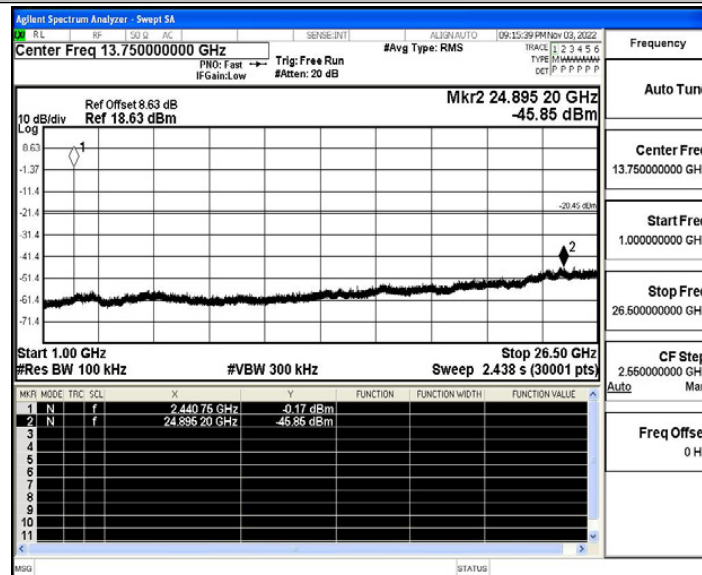
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

