



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Motorcycle Audio

Test Model: SHKC7800N

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.469	2402.504	---	---
		2441	1.026	2440.472	2441.498	---	---
		2480	1.044	2479.457	2480.501	---	---
2DH5	Ant1	2402	1.290	2401.364	2402.654	---	---
		2441	1.296	2440.361	2441.657	---	---
		2480	1.317	2479.340	2480.657	---	---
3DH5	Ant1	2402	1.323	2401.340	2402.663	---	---
		2441	1.302	2440.349	2441.651	---	---
		2480	1.311	2479.346	2480.657	---	---





Test Graphs

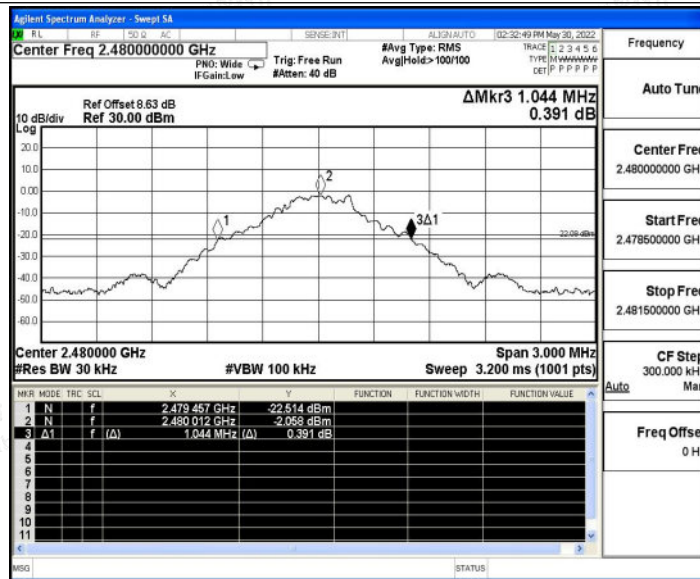


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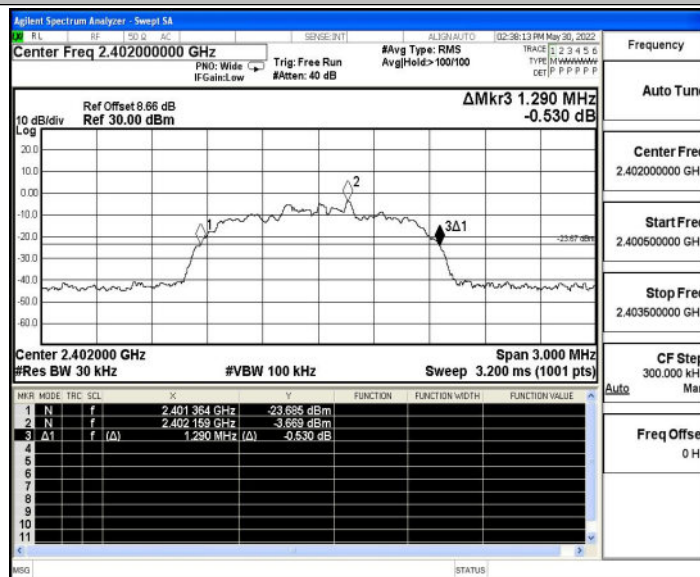
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2DH5_Ant1_2402



2DH5_Ant1_2441

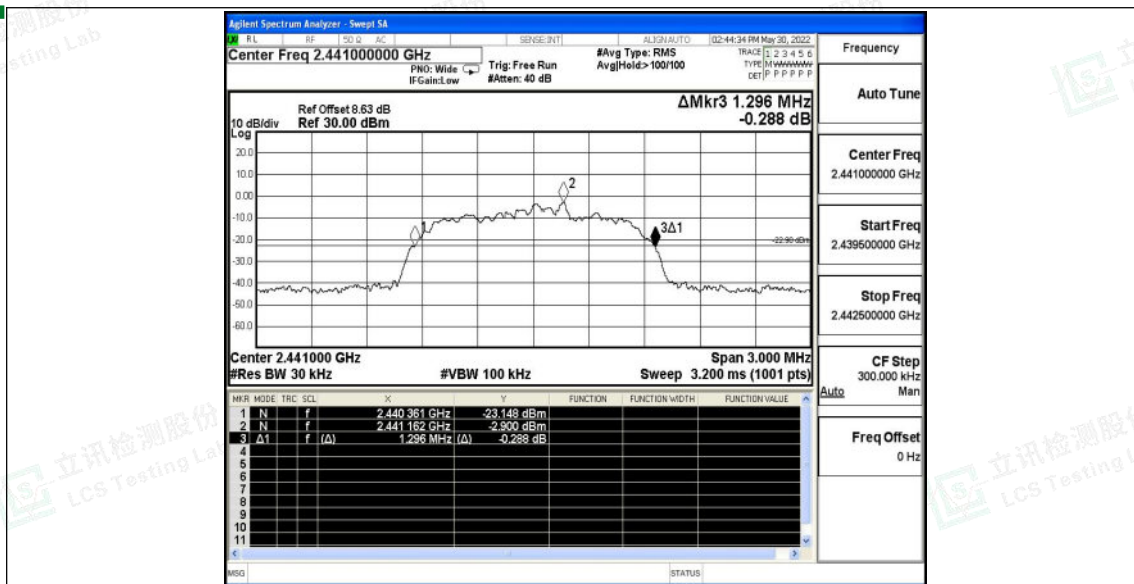


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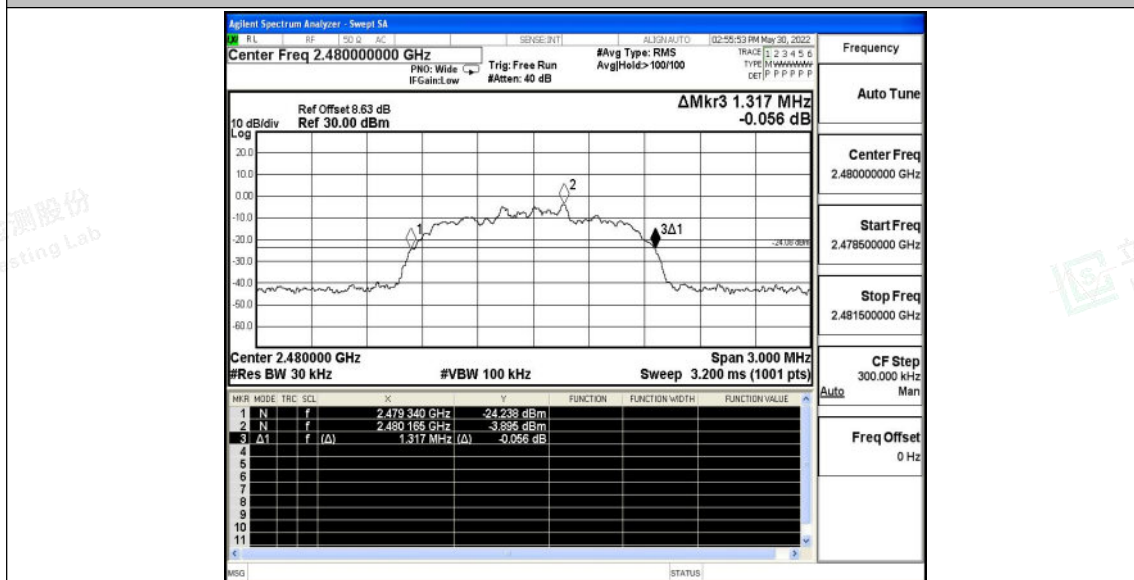
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2DH5_Ant1_2480



3DH5_Ant1_2402

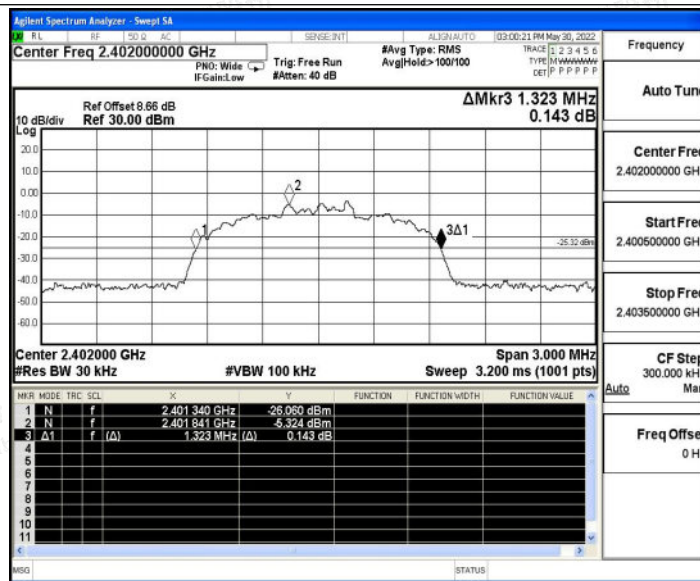


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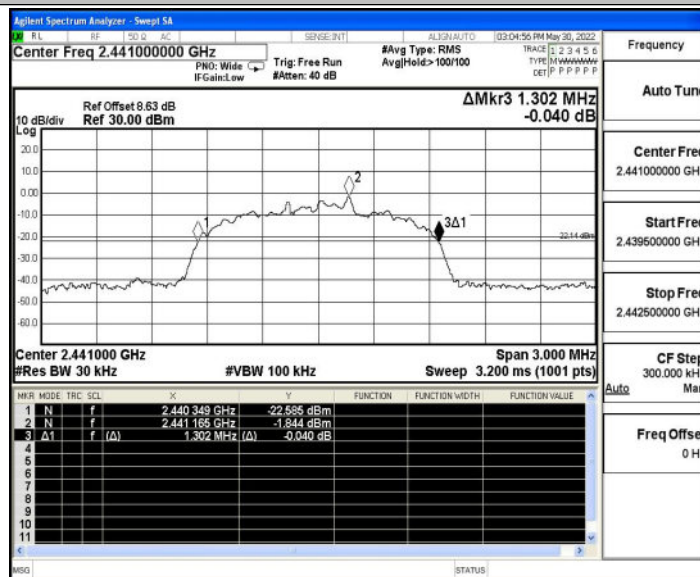
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3DH5_Ant1_2441



3DH5_Ant1_2480

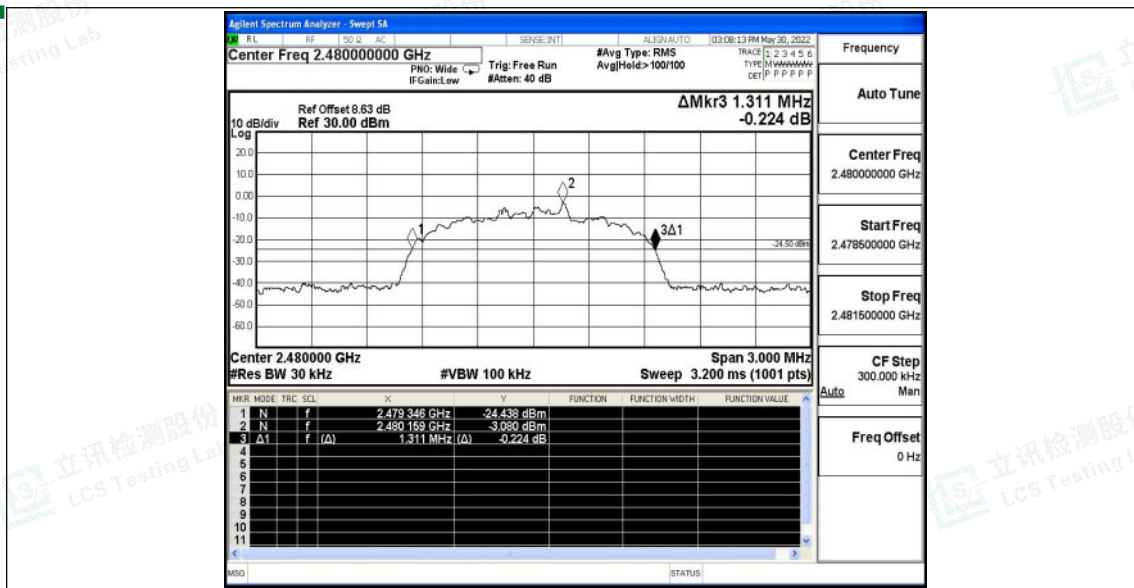


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A.2 Maximum conducted output power

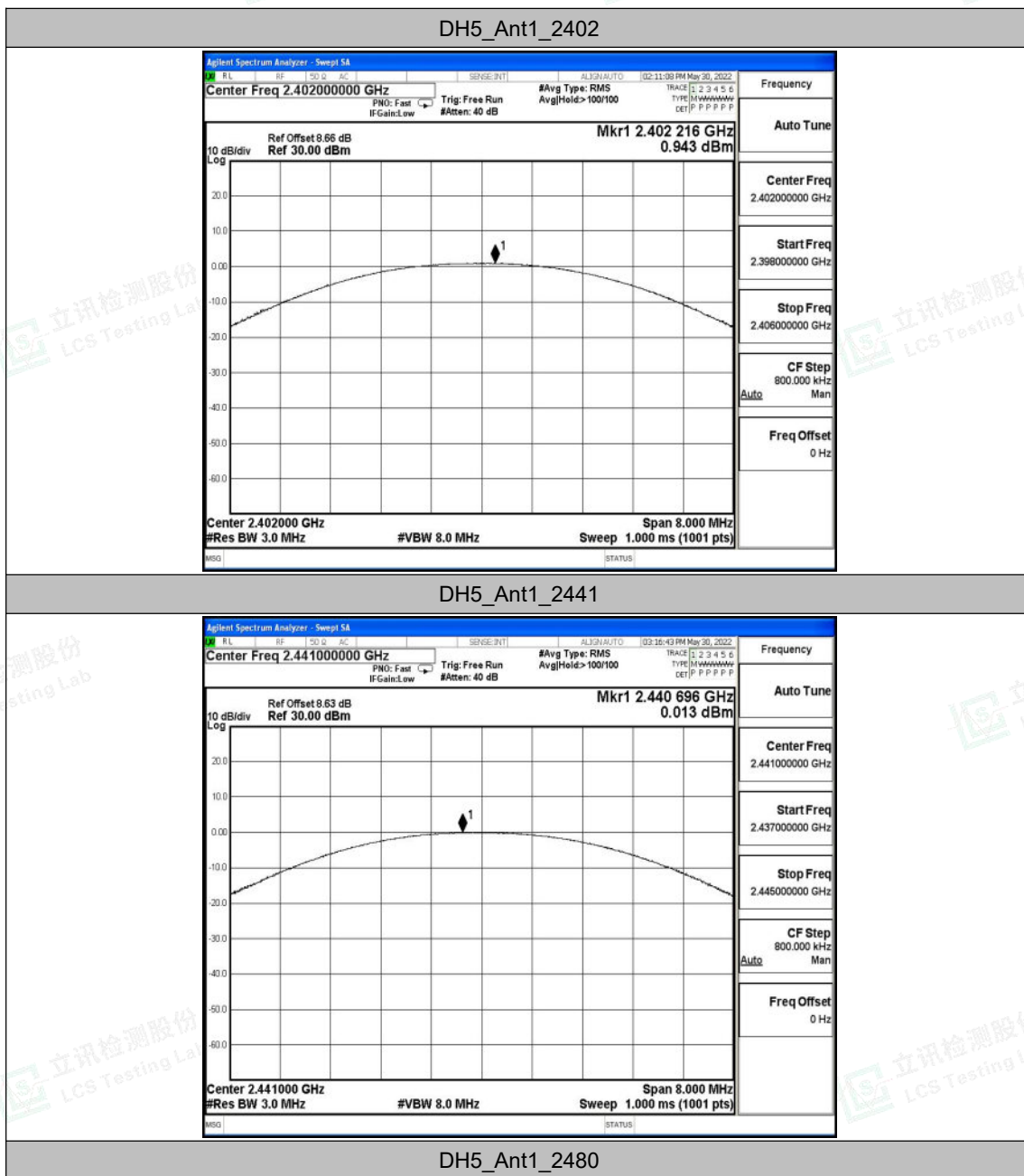
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.94	≤20.97	PASS
		2441	0.01	≤20.97	PASS
		2480	0.98	≤20.97	PASS
2DH5	Ant1	2402	0.2	≤20.97	PASS
		2441	1.44	≤20.97	PASS
		2480	0.1	≤20.97	PASS
3DH5	Ant1	2402	0.35	≤20.97	PASS
		2441	1.55	≤20.97	PASS
		2480	0.39	≤20.97	PASS





Test Graphs

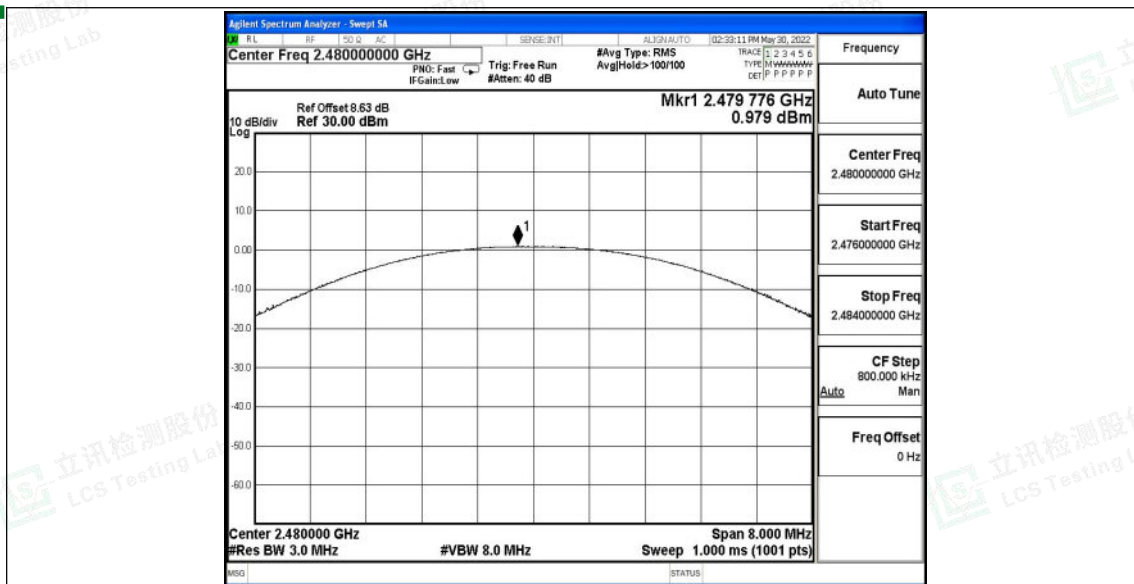


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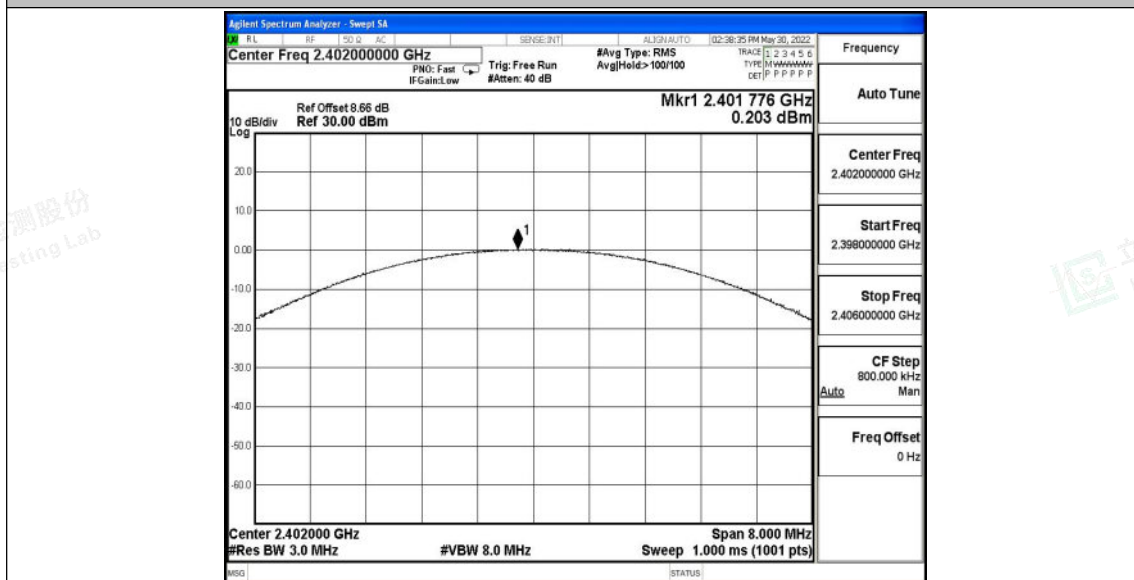
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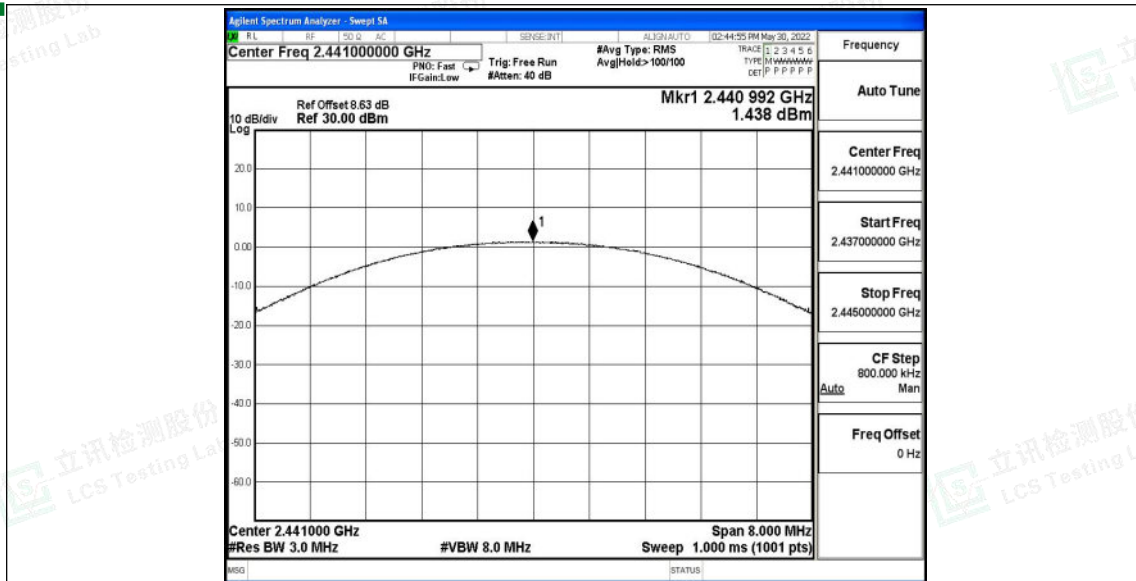


2DH5_Ant1_2402

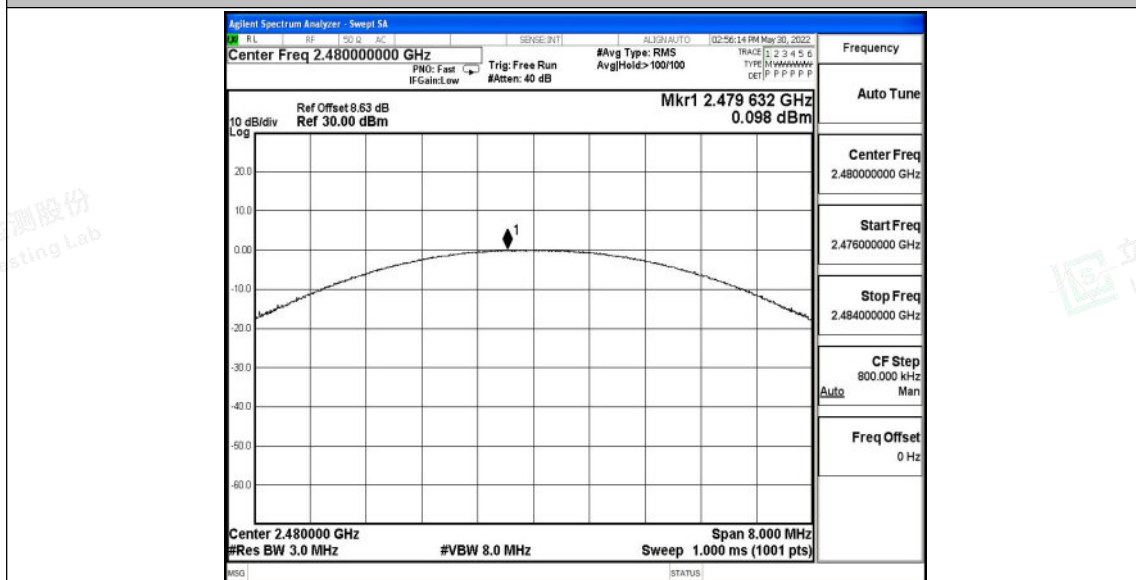


2DH5_Ant1_2441



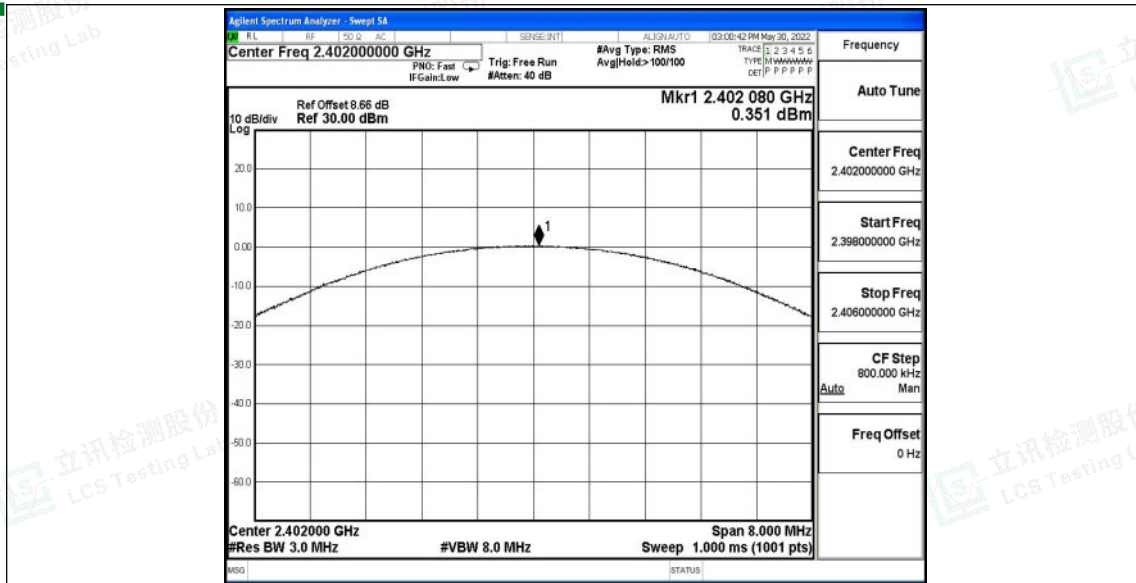


2DH5_Ant1_2480

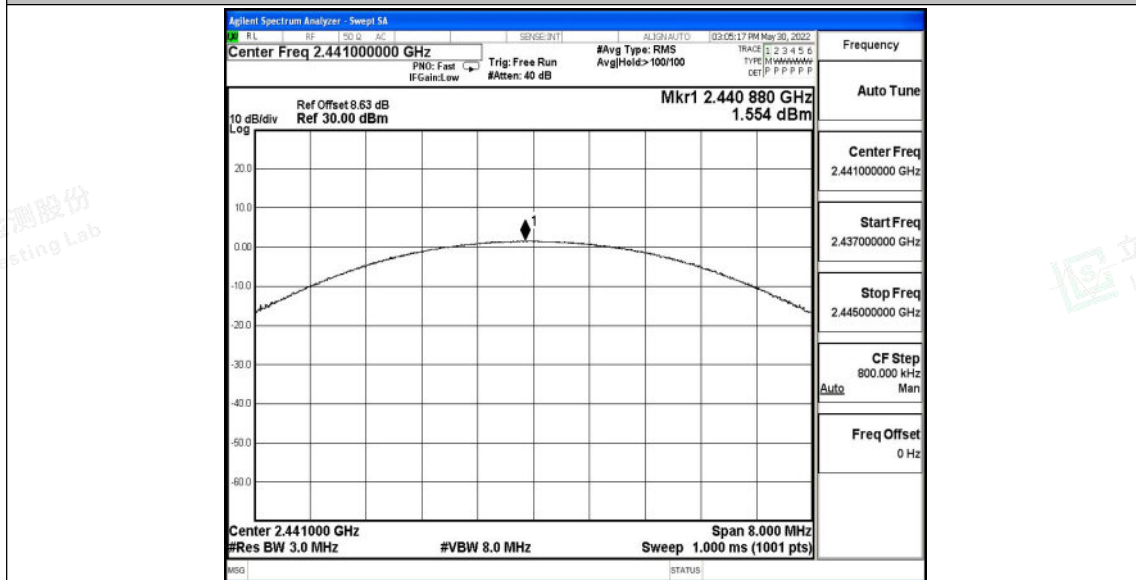


3DH5_Ant1_2402



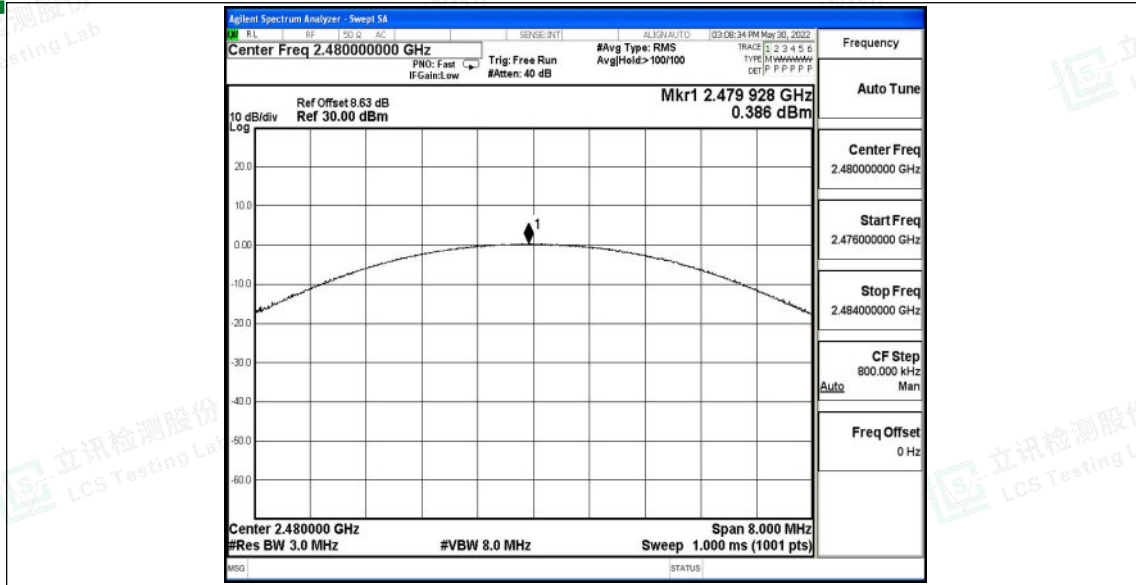


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

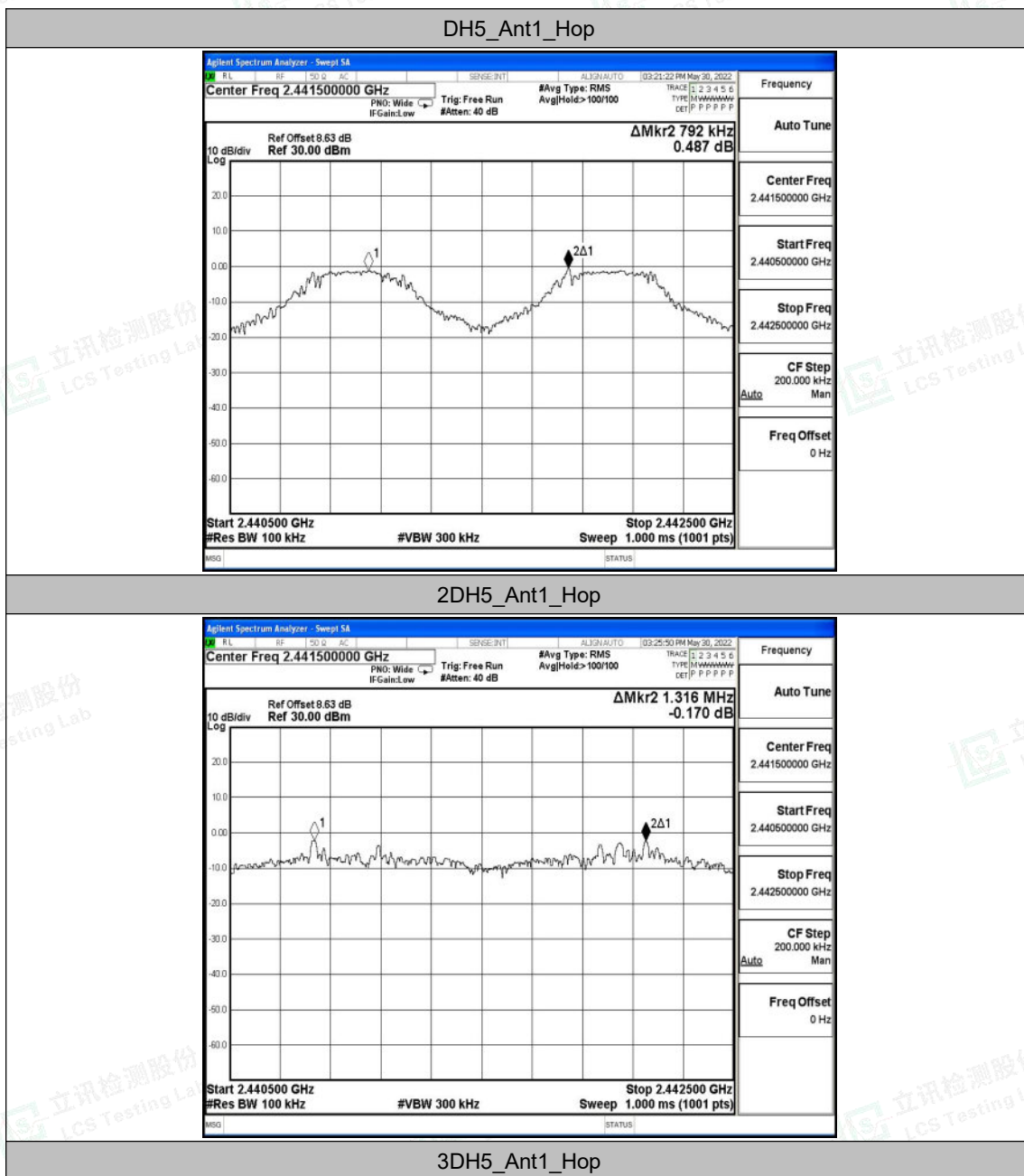
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.792	≥ 0.696	PASS
2DH5	Ant1	Hop	1.316	≥ 0.878	PASS
3DH5	Ant1	Hop	1.026	≥ 0.882	PASS





Test Graphs

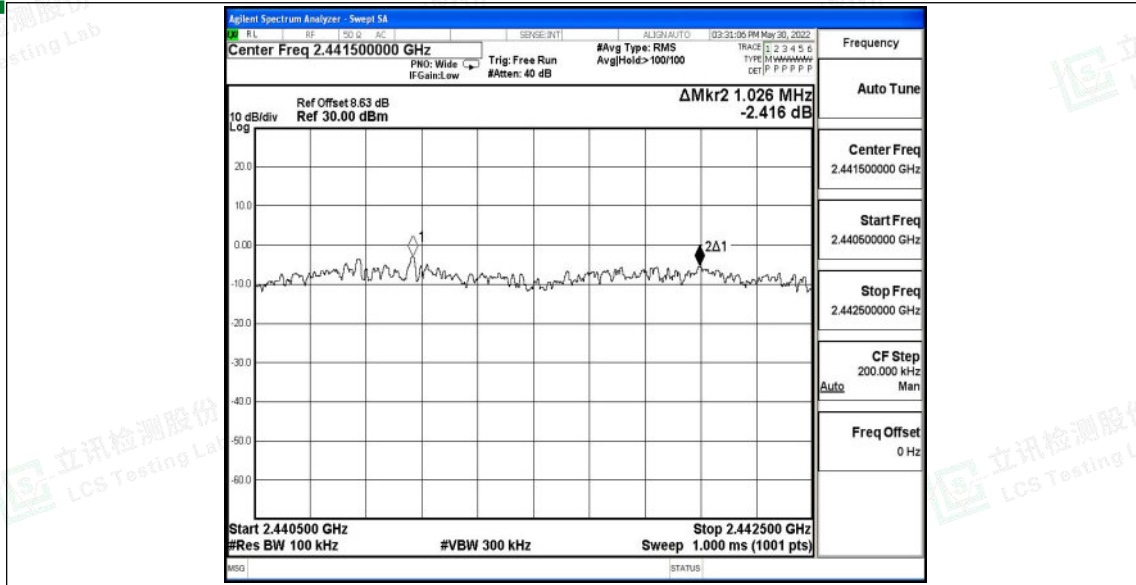


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A.4 Time of occupancy

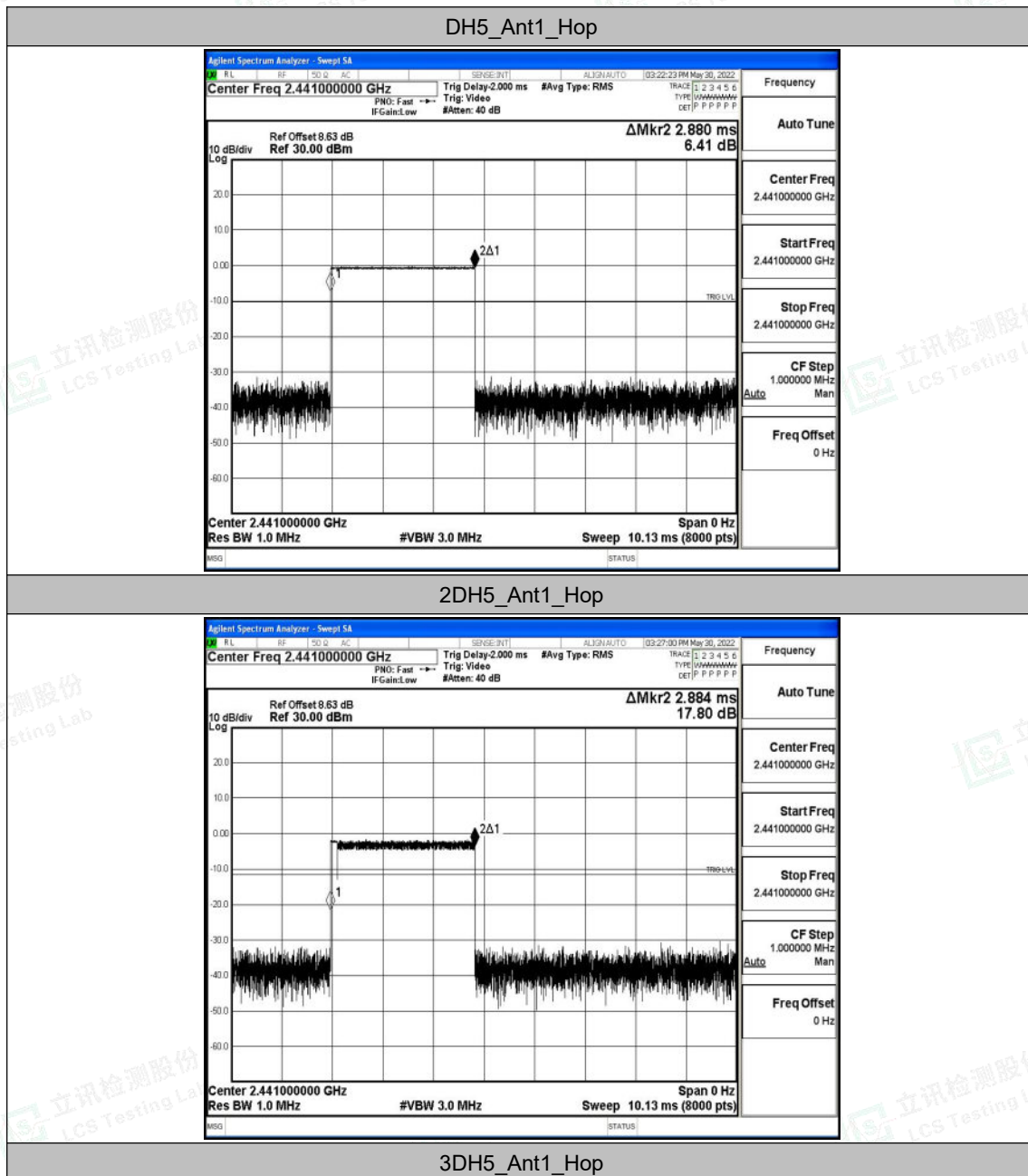
Test Result

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	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs

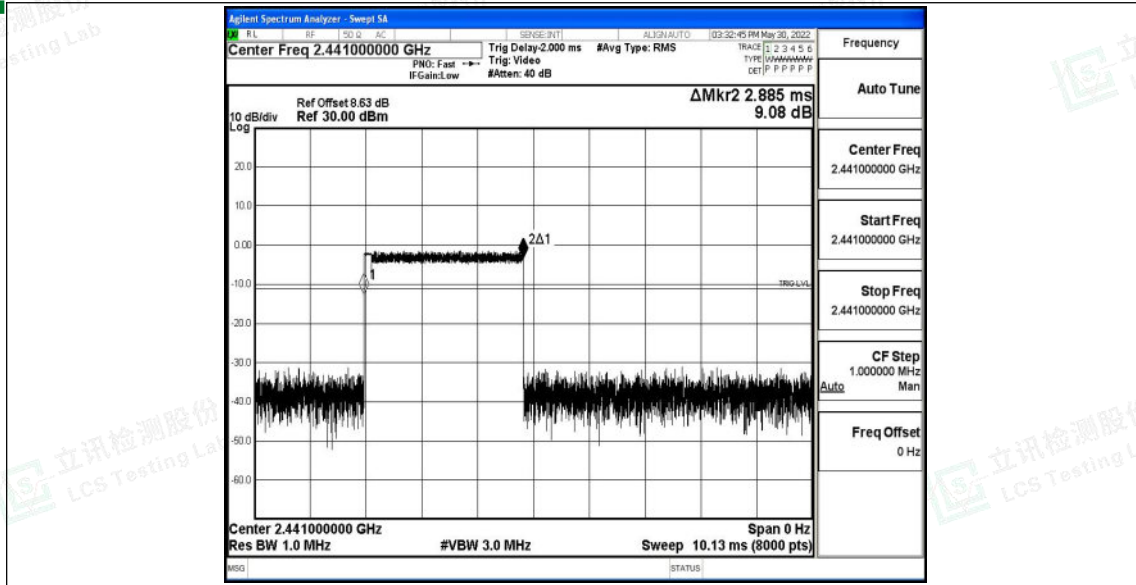


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A.5 Number of hopping channels

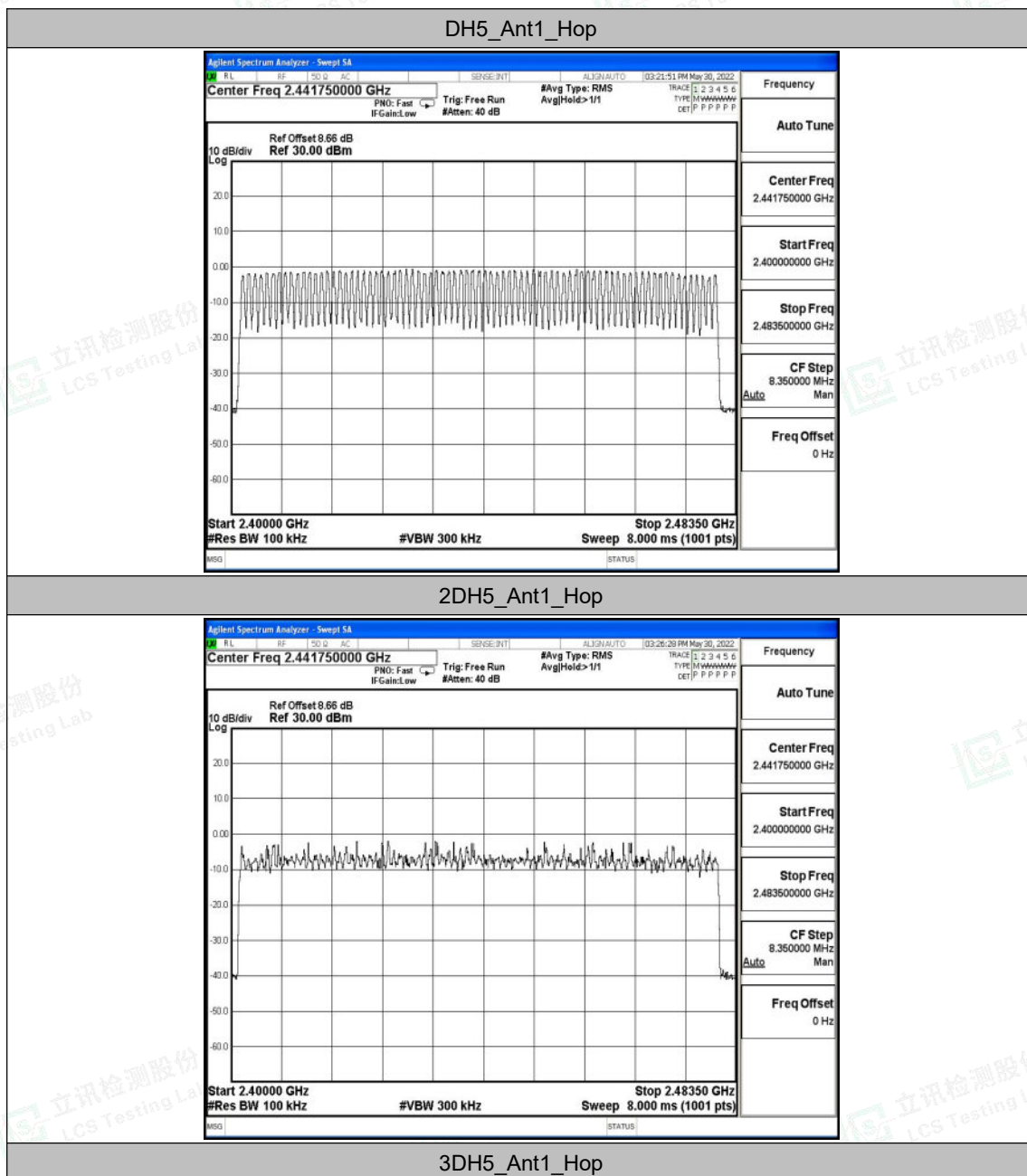
Test Result

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

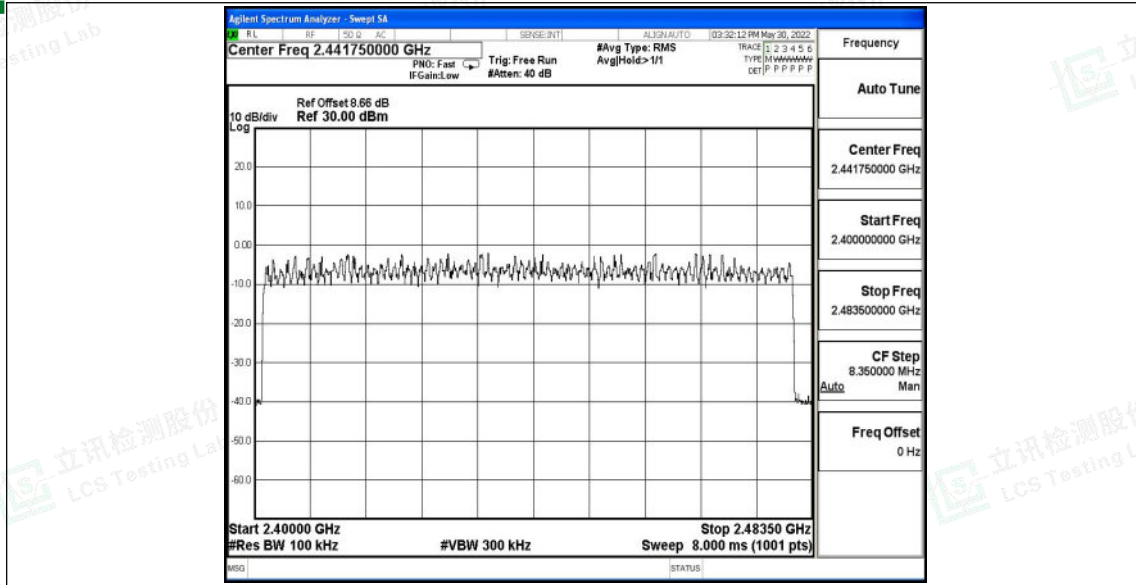


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A.6 Band edge measurements

Test Result

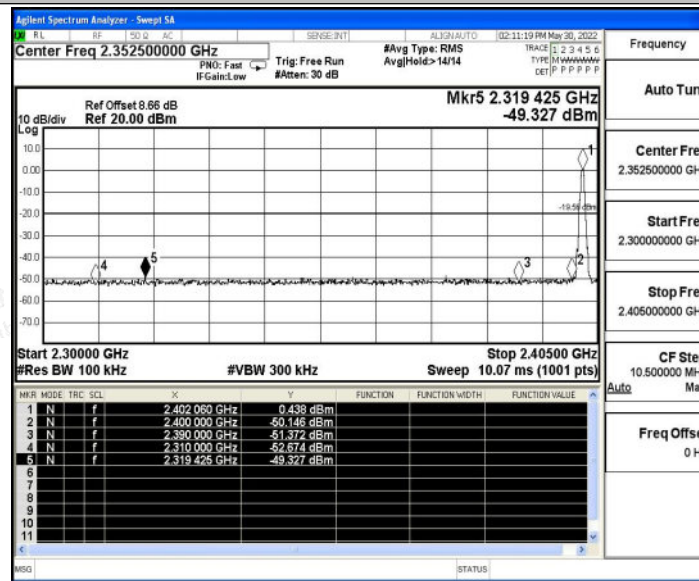
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.44	-49.33	≤-19.56	PASS
		High	2480	0.34	-48.48	≤-19.66	PASS
		Low	Hop_2402	-2.53	-49.17	≤-22.53	PASS
		High	Hop_2480	-2.08	-47.71	≤-22.08	PASS
2DH5	Ant1	Low	2402	-0.99	-49.09	≤-20.99	PASS
		High	2480	-1.08	-47.55	≤-21.08	PASS
		Low	Hop_2402	-7.07	-48.96	≤-27.07	PASS
		High	Hop_2480	-5.00	-48.08	≤-25	PASS
3DH5	Ant1	Low	2402	-0.79	-49.22	≤-20.79	PASS
		High	2480	-1.38	-47.98	≤-21.38	PASS
		Low	Hop_2402	-5.37	-49.03	≤-25.37	PASS
		High	Hop_2480	-3.73	-48.24	≤-23.73	PASS



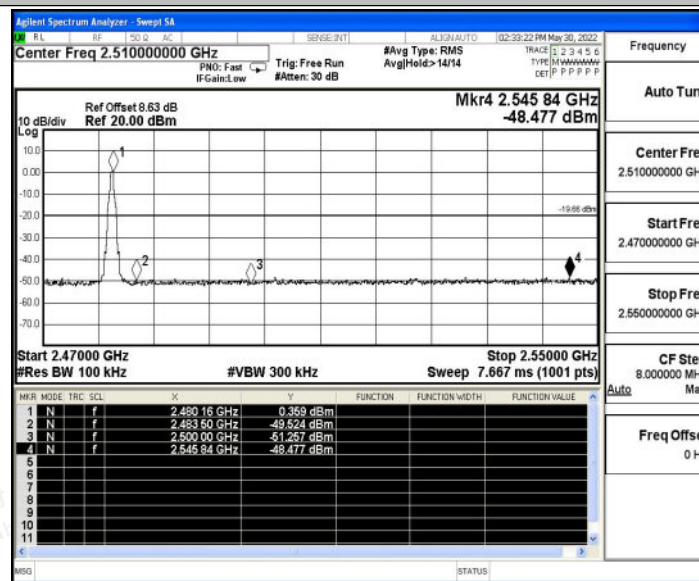


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

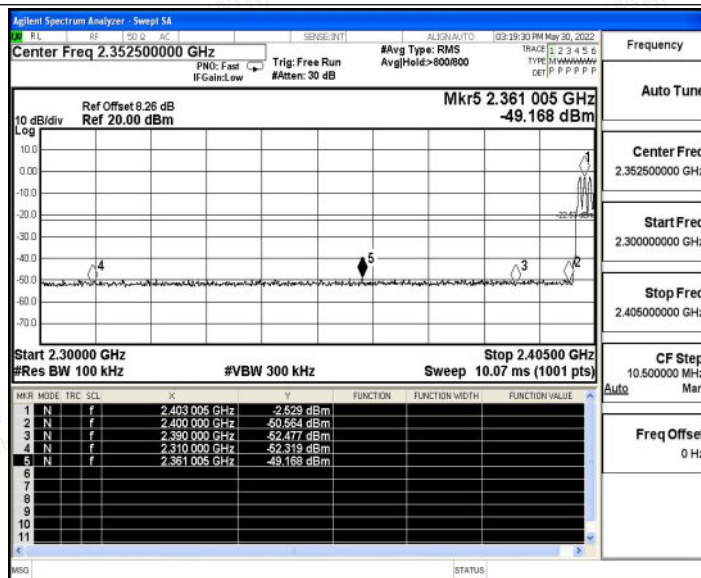


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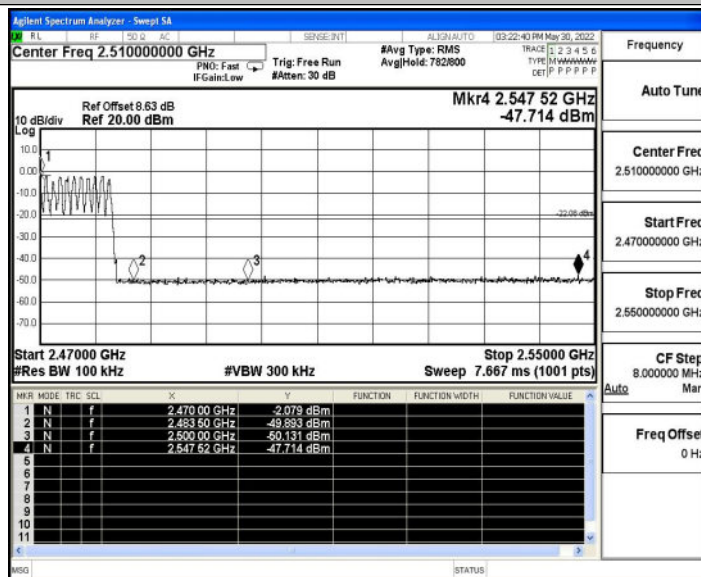
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

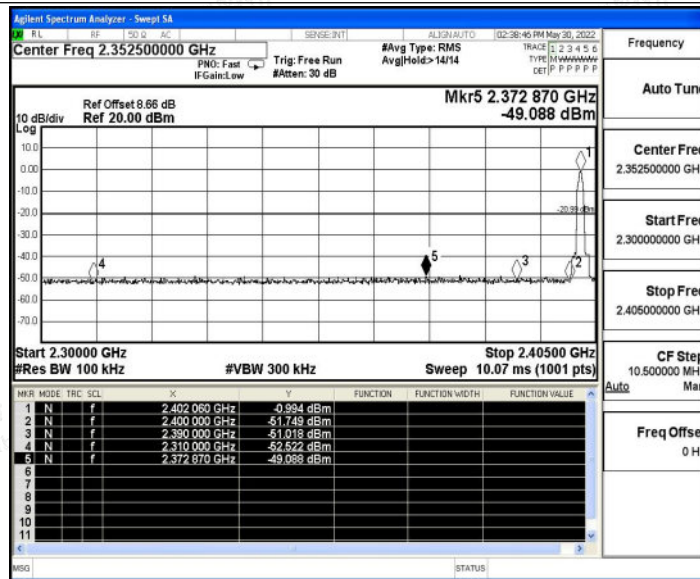


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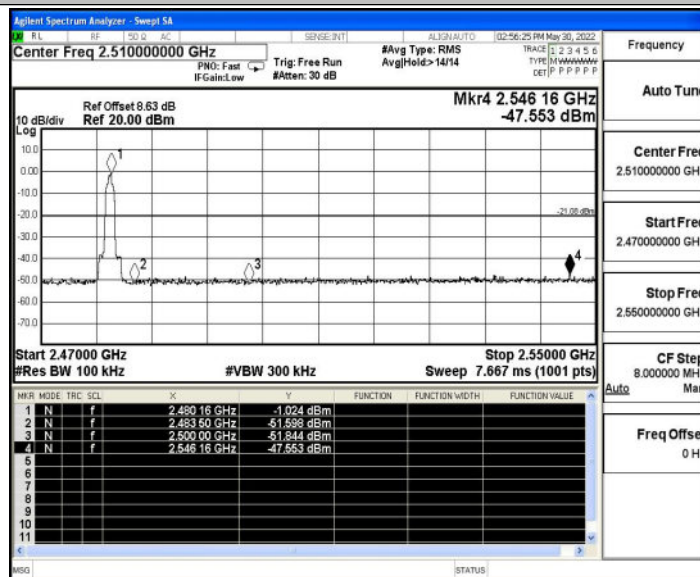
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

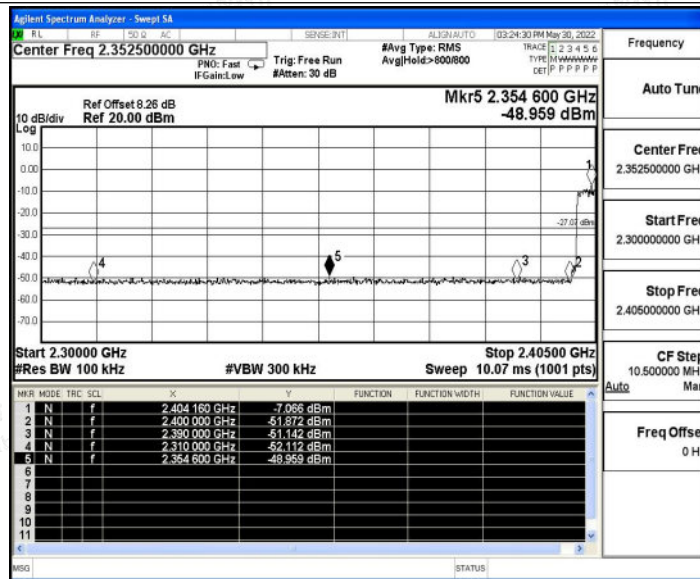


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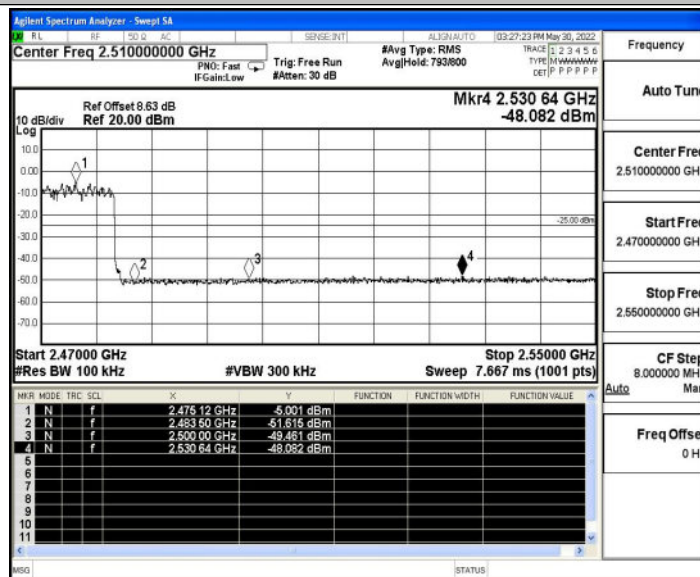
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

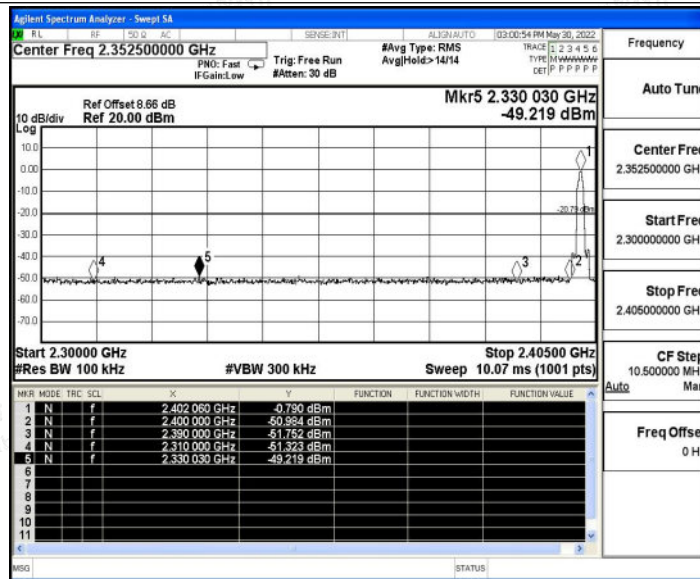


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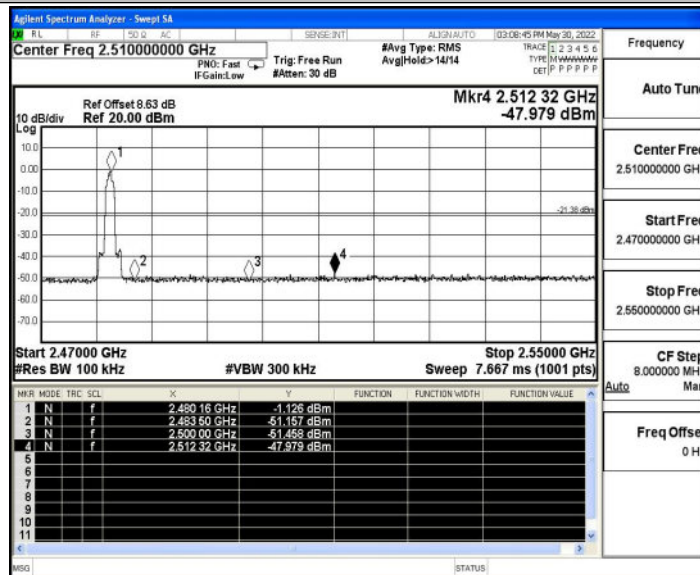
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

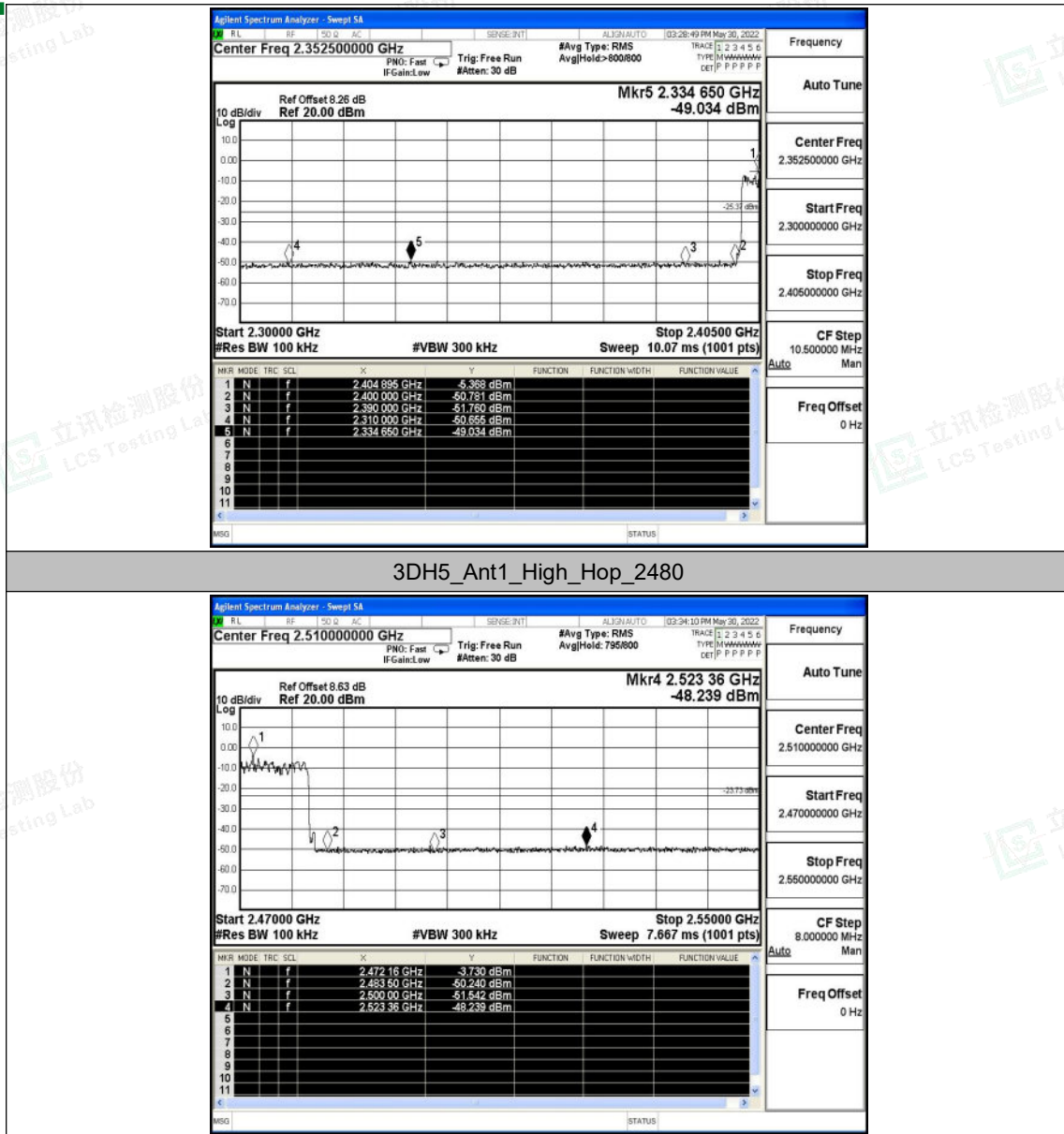


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.16	0.16	---	PASS
			30~1000	0.16	-60.83	≤-19.84	PASS
			1000~26500	0.16	-45.93	≤-19.84	PASS
		2441	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-58.05	≤-20.75	PASS
			1000~26500	-0.75	-46.21	≤-20.75	PASS
		2480	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-57.28	≤-19.68	PASS
			1000~26500	0.32	-46.74	≤-19.68	PASS
2DH5	Ant1	2402	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-58.25	≤-21.06	PASS
			1000~26500	-1.06	-46.33	≤-21.06	PASS
		2441	Reference	-2.35	-2.35	---	PASS
			30~1000	-2.35	-56.97	≤-22.35	PASS
			1000~26500	-2.35	-46.53	≤-22.35	PASS
		2480	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-58.04	≤-21.22	PASS
			1000~26500	-1.22	-46.3	≤-21.22	PASS
3DH5	Ant1	2402	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-56.48	≤-20.94	PASS
			1000~26500	-0.94	-46.51	≤-20.94	PASS
		2441	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-57.7	≤-19.86	PASS
			1000~26500	0.14	-46.73	≤-19.86	PASS
		2480	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-57.86	≤-20.98	PASS
			1000~26500	-0.98	-46.23	≤-20.98	PASS



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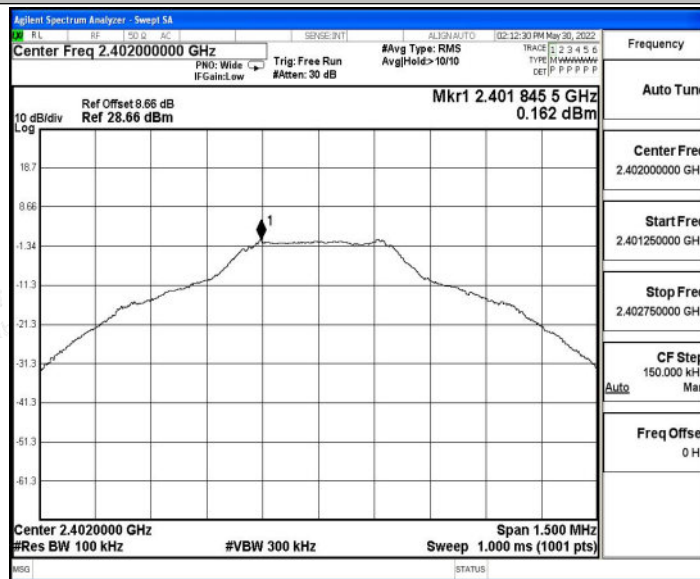
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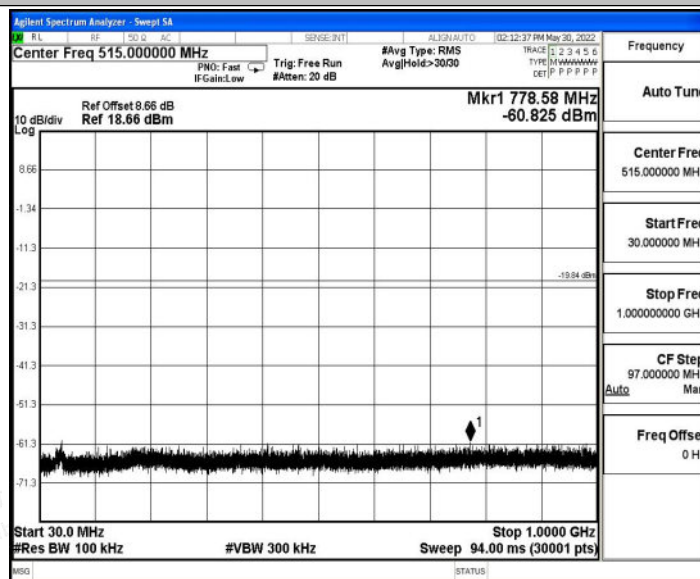


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

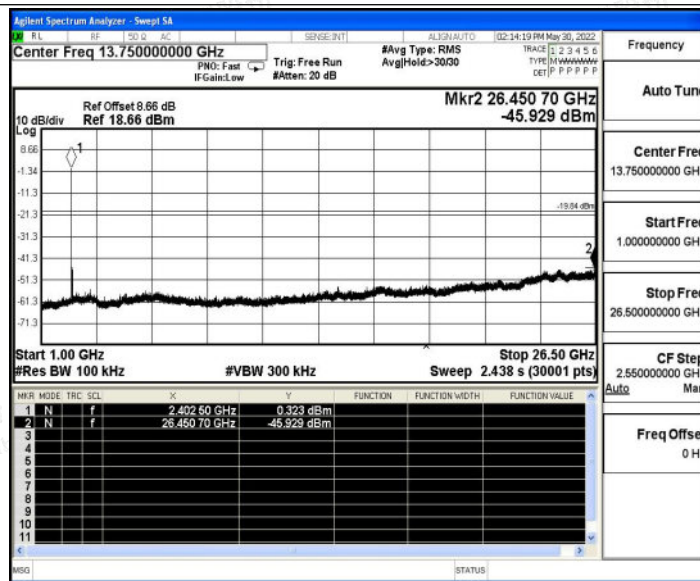


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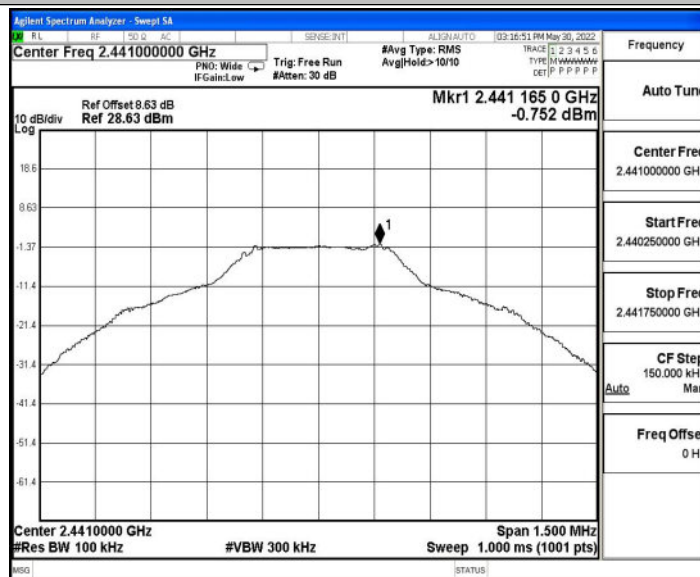
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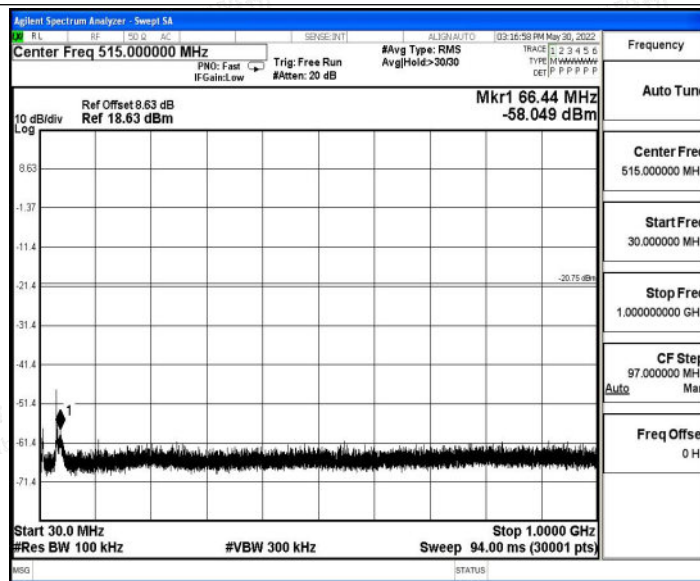


DH5_Ant1_2441_0~Reference

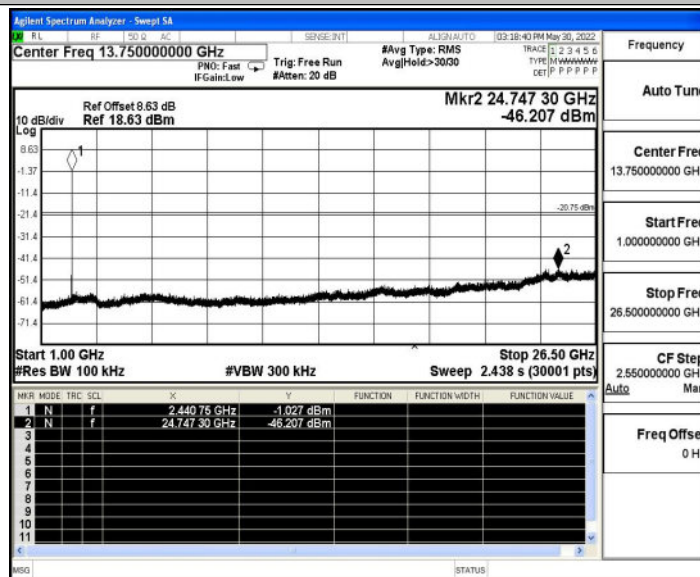


DH5_Ant1_2441_30~1000



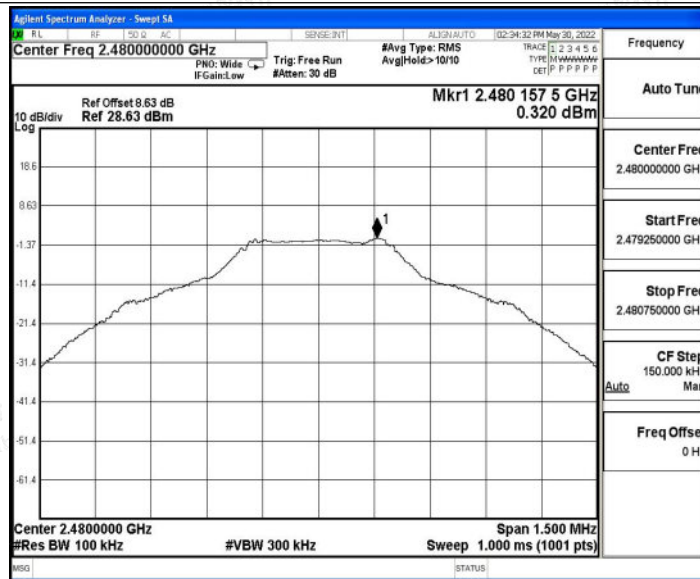


DH5_Ant1_2441_1000~26500

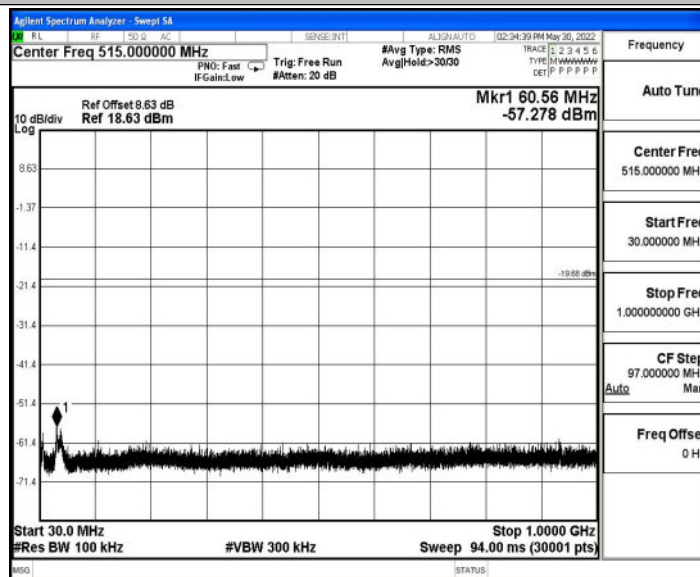


DH5_Ant1_2480_0~Reference



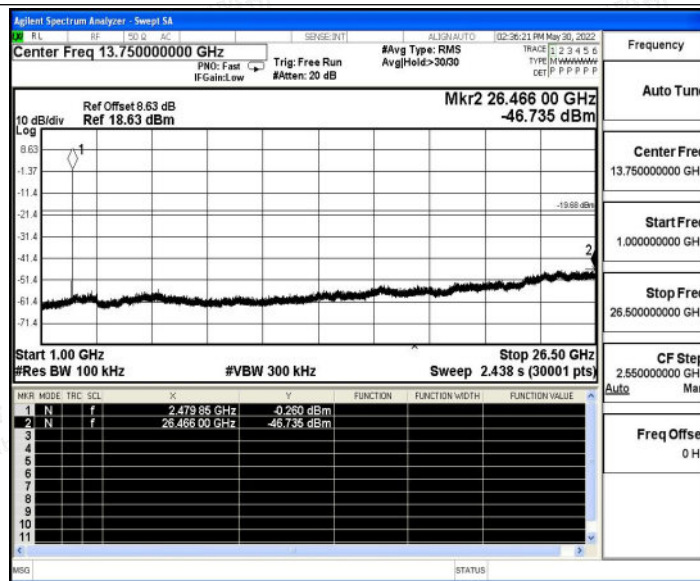


DH5_Ant1_2480_30~1000

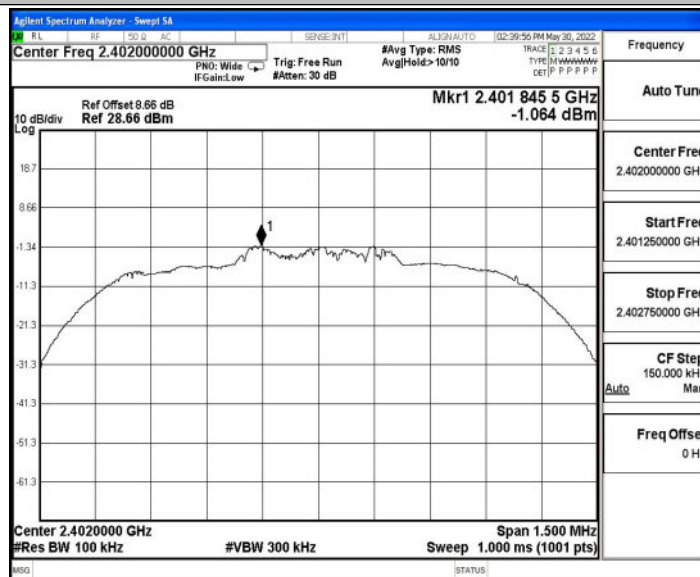


DH5_Ant1_2480_1000~26500





2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

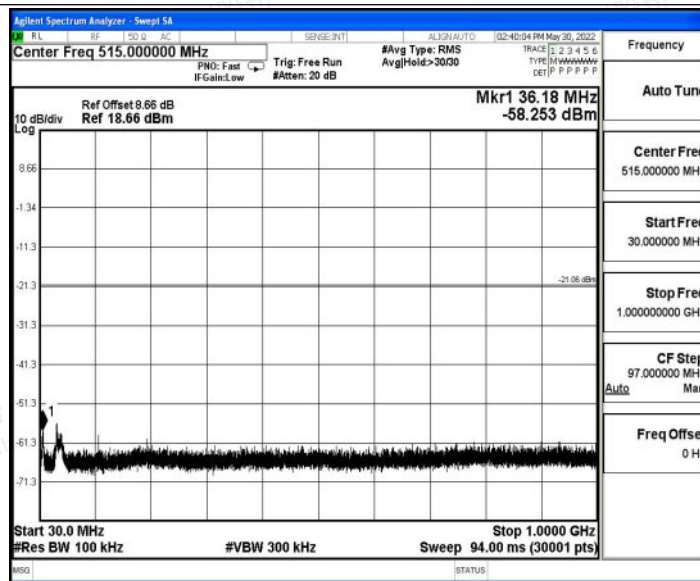


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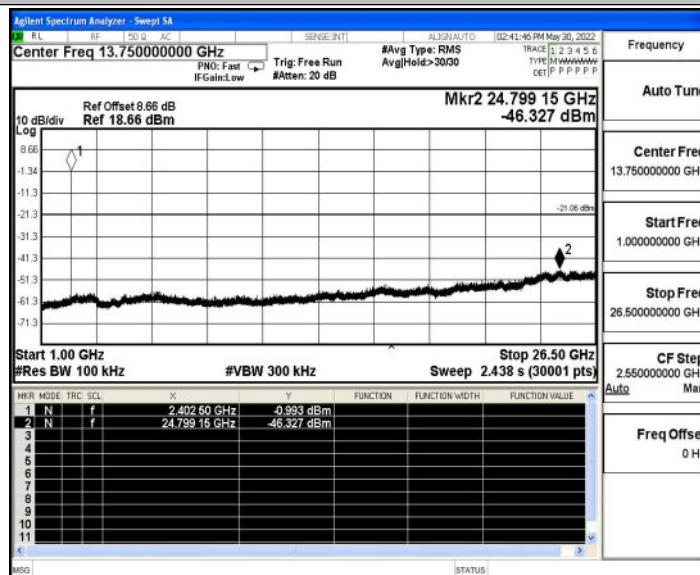
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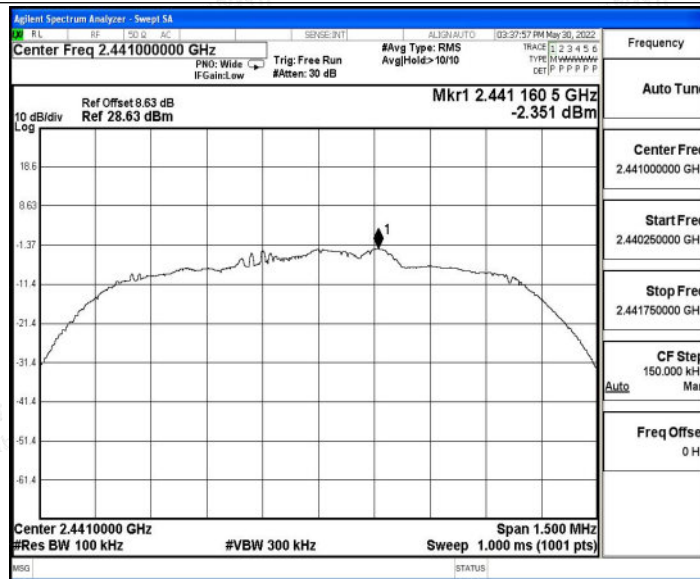


2DH5_Ant1_2402_1000~26500

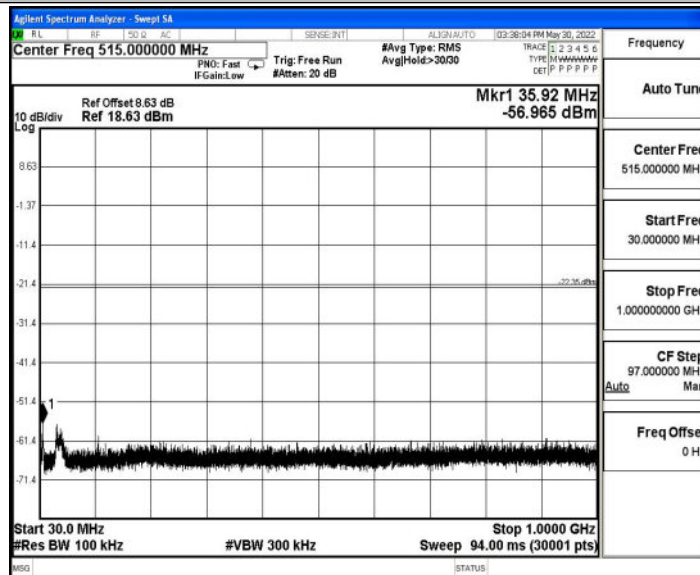


2DH5_Ant1_2441_0~Reference





2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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