



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Single Hearing PSA

Test Model: PSA5033

Environmental Conditions

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



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A.1 20dB Emission Bandwidth

Test Result

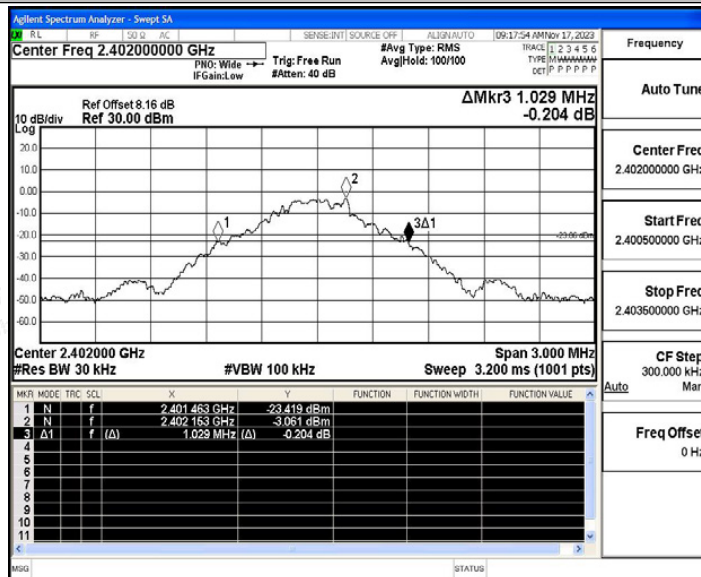
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.463	2402.492	---
		2441	0.966	2440.520	2441.486	---
		2480	0.969	2479.514	2480.483	---
2DH5	Ant1	2402	1.287	2401.355	2402.642	---
		2441	1.293	2440.349	2441.642	---
		2480	1.287	2479.355	2480.642	---
3DH5	Ant1	2402	1.296	2401.343	2402.639	---
		2441	1.299	2440.337	2441.636	---
		2480	1.308	2479.337	2480.645	---



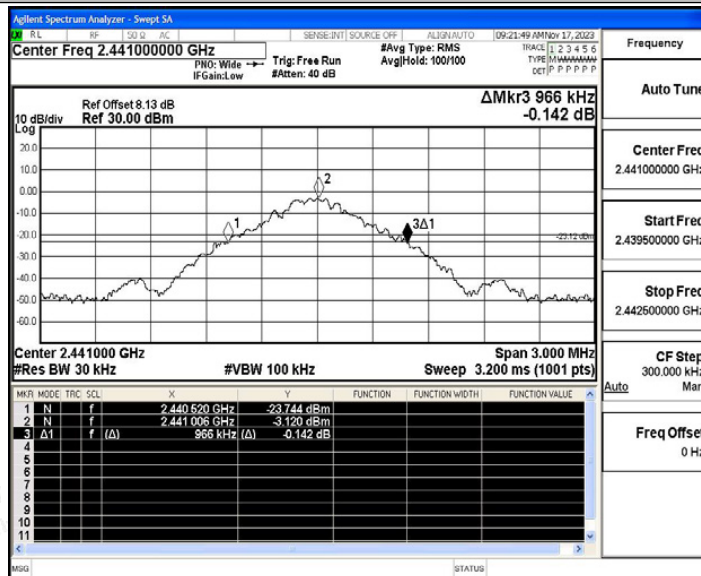


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

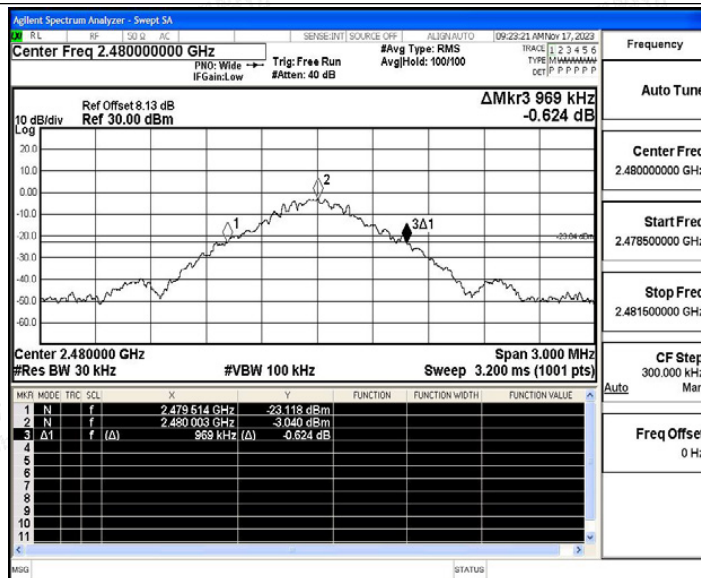


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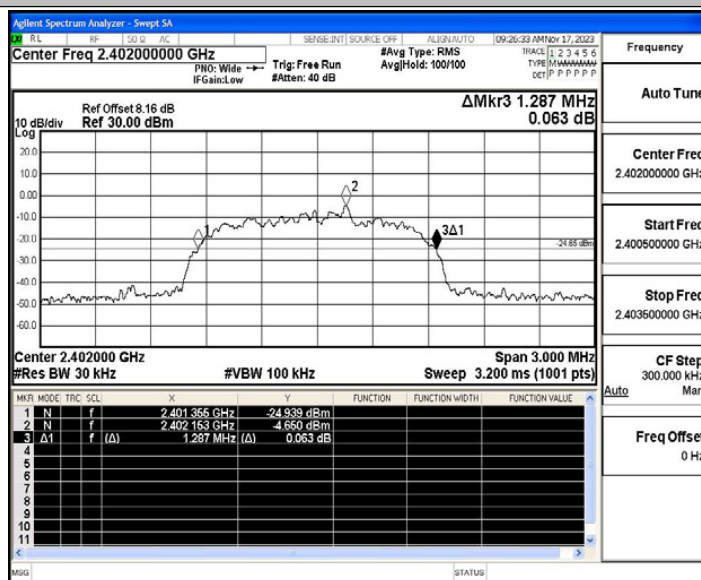
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2DH5_Ant1_2402



2DH5_Ant1_2441

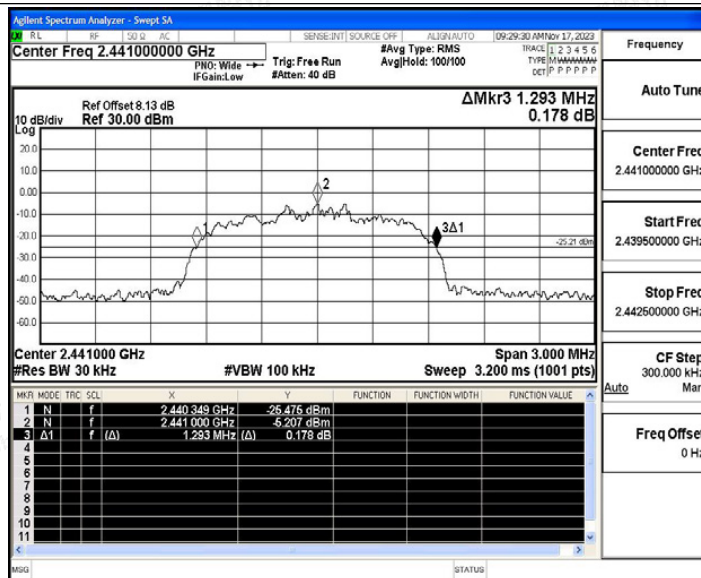


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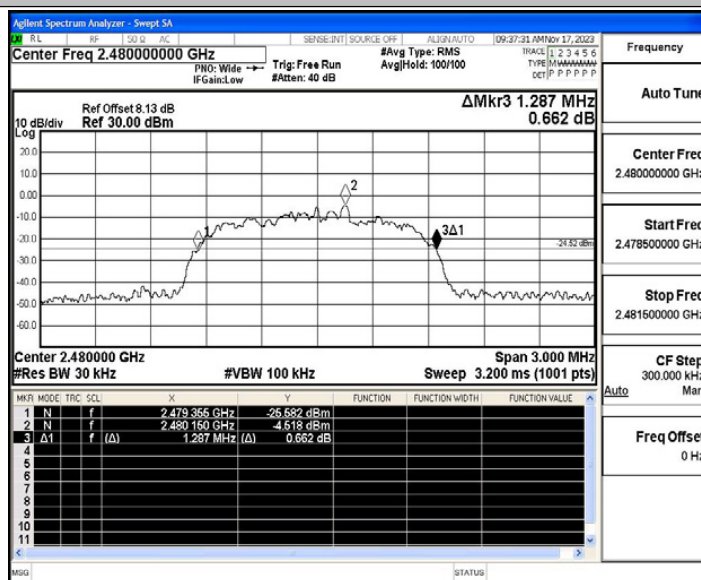
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2DH5_Ant1_2480



3DH5_Ant1_2402

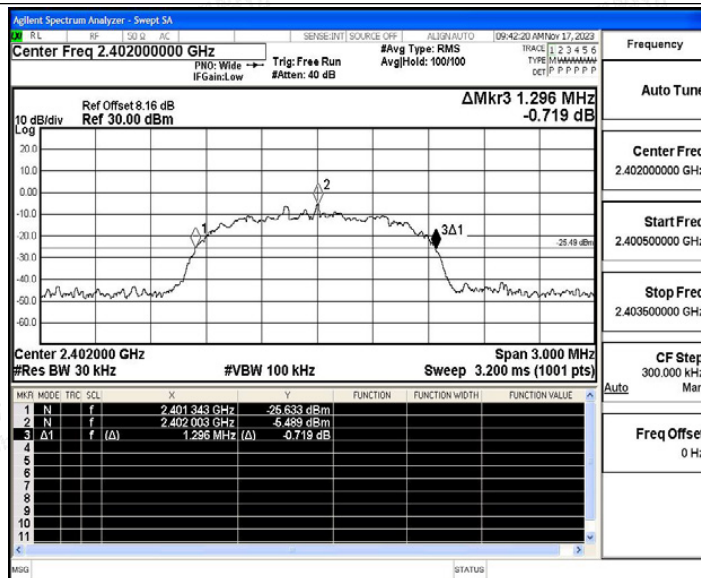


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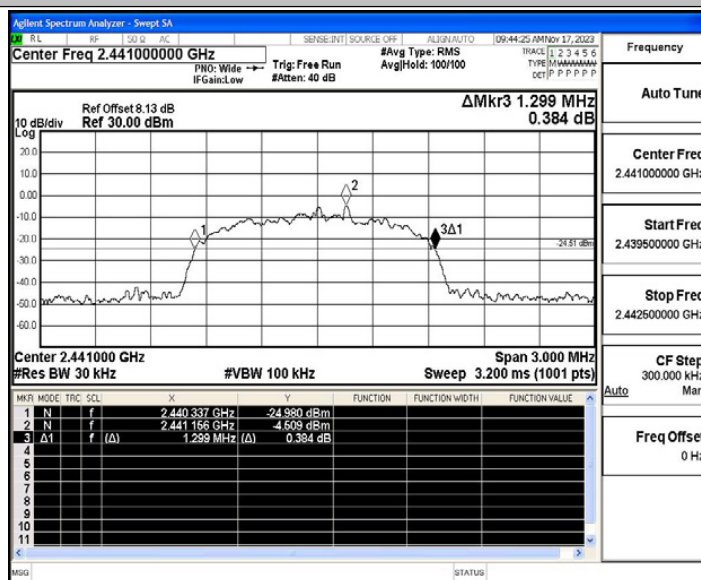
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3DH5_Ant1_2441



3DH5_Ant1_2480

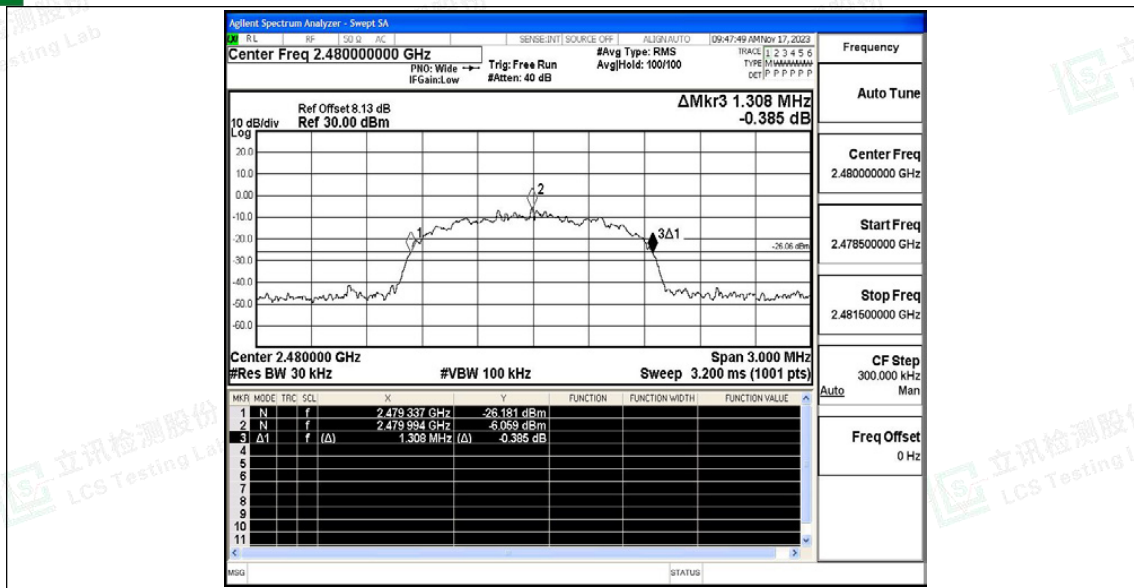


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A.2 Maximum conducted output power

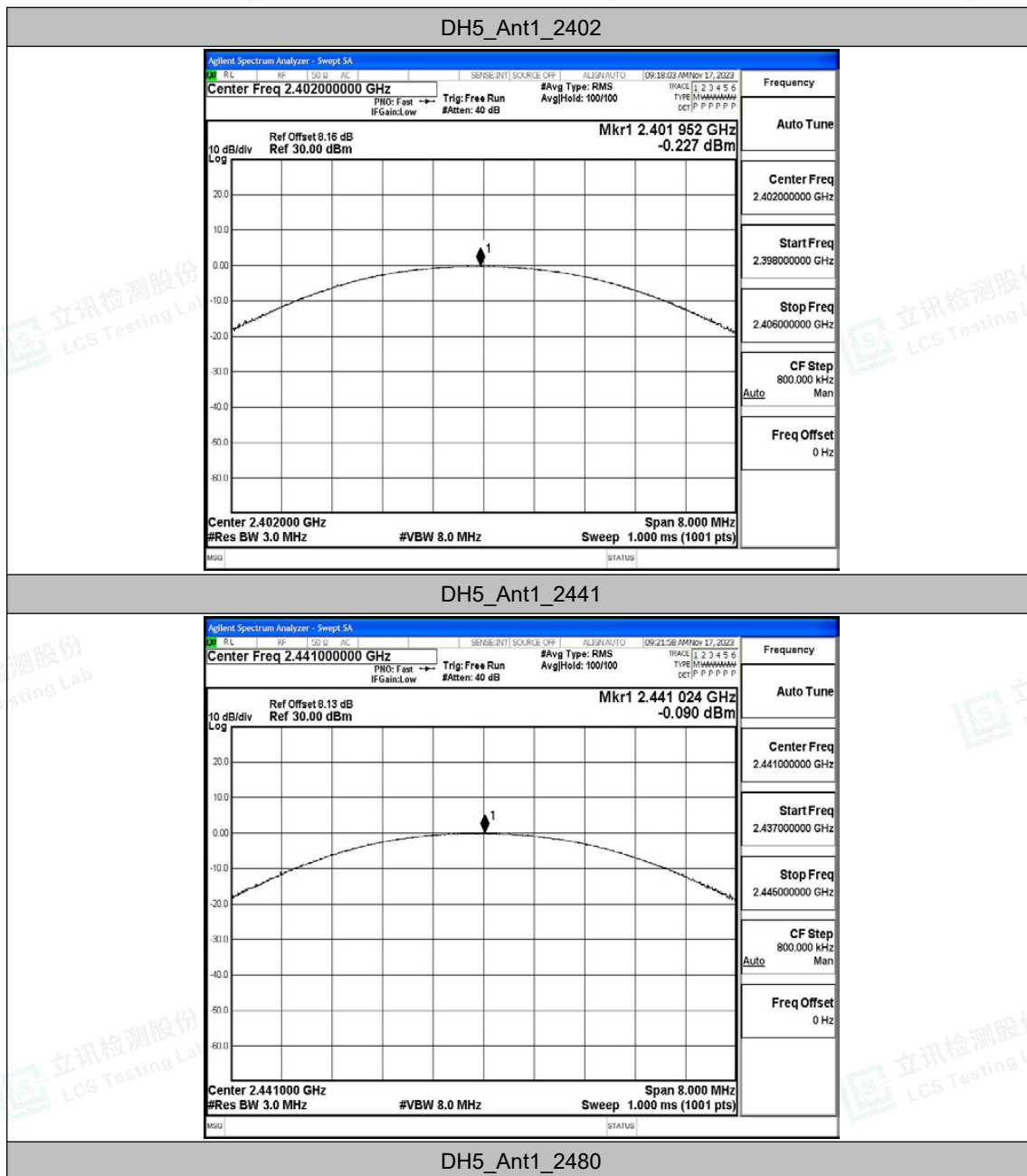
Test Result

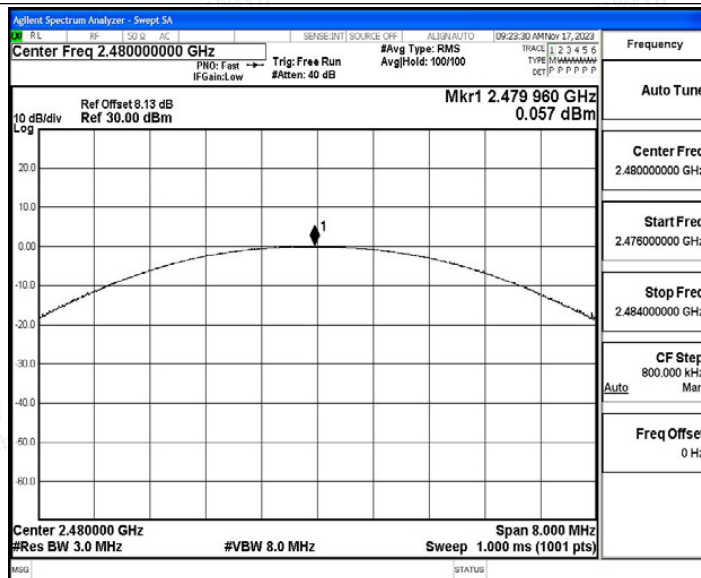
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.23	≤21	PASS
		2441	-0.09	≤21	PASS
		2480	0.06	≤21	PASS
2DH5	Ant1	2402	-0.47	≤21	PASS
		2441	-0.37	≤21	PASS
		2480	-0.38	≤21	PASS
3DH5	Ant1	2402	-0.5	≤21	PASS
		2441	-0.28	≤21	PASS
		2480	-0.21	≤21	PASS



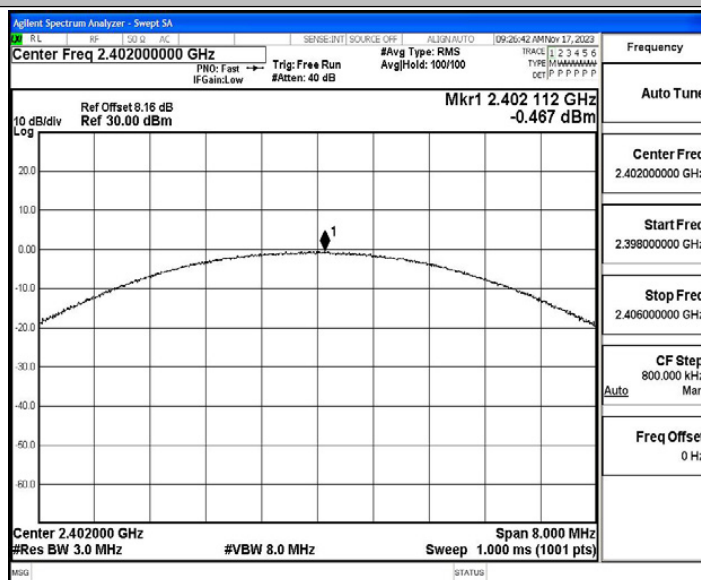


Test Graphs



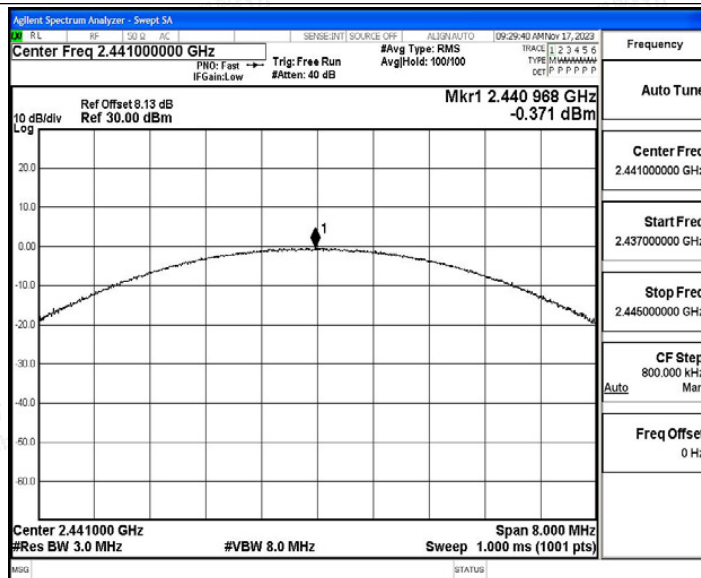


2DH5_Ant1_2402

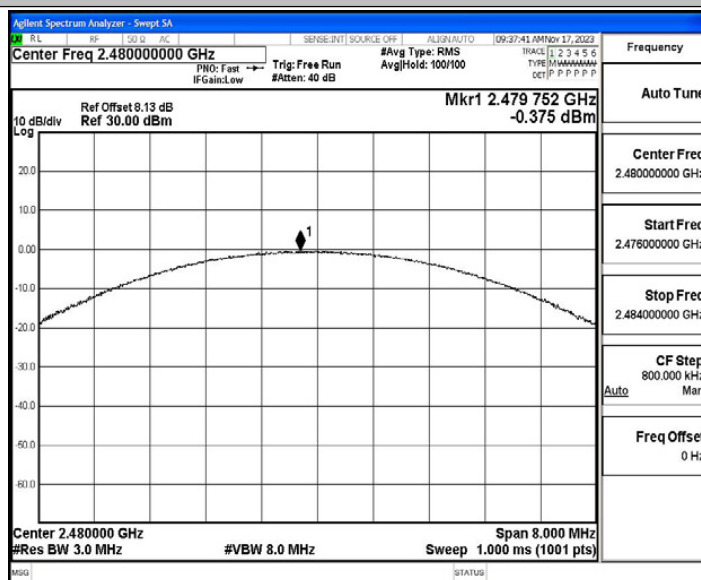


2DH5_Ant1_2441



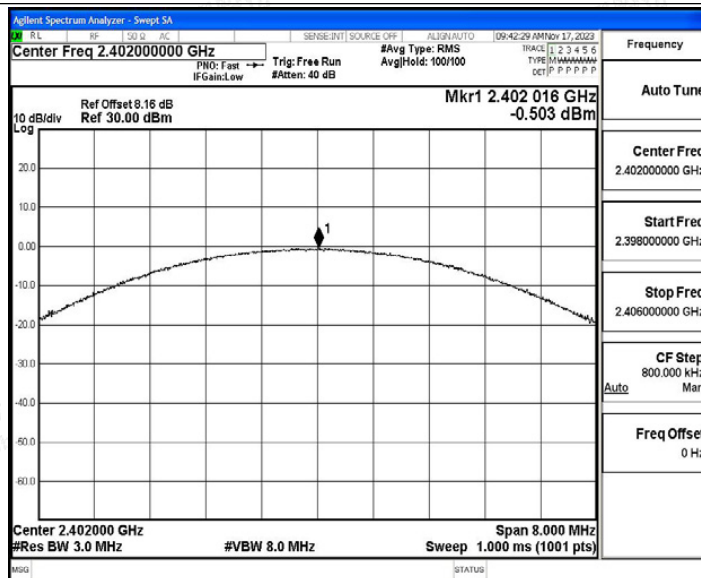


2DH5_Ant1_2480

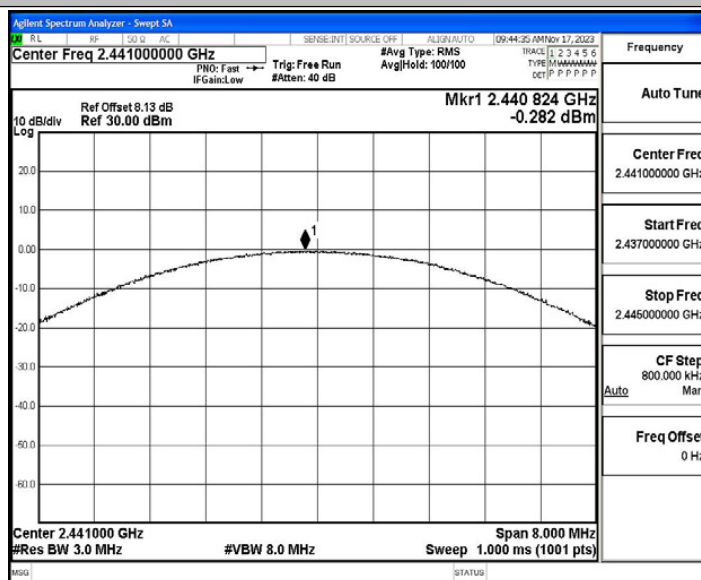


3DH5_Ant1_2402



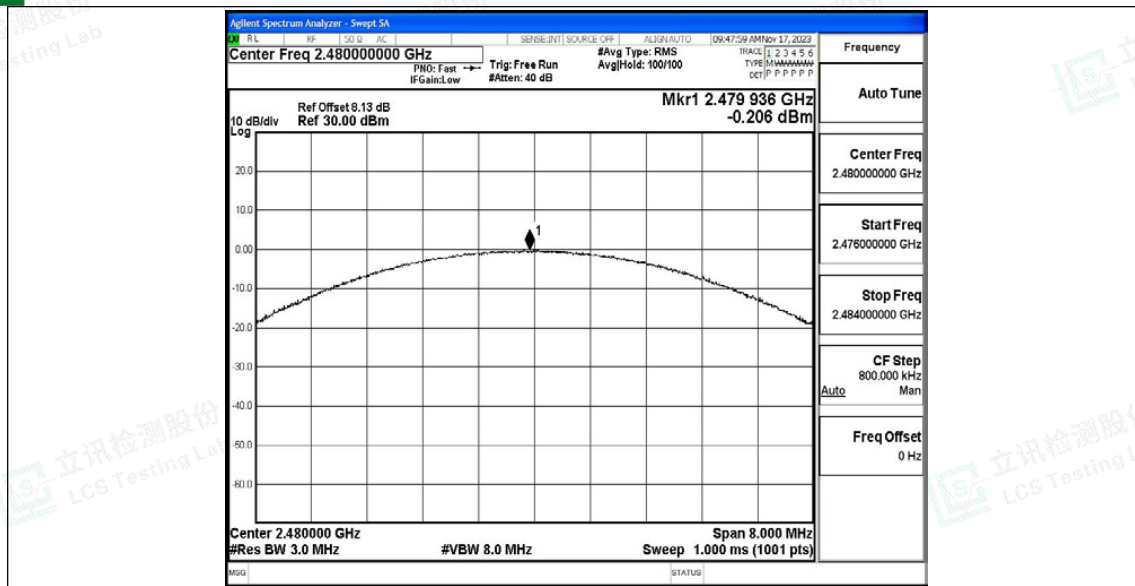


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

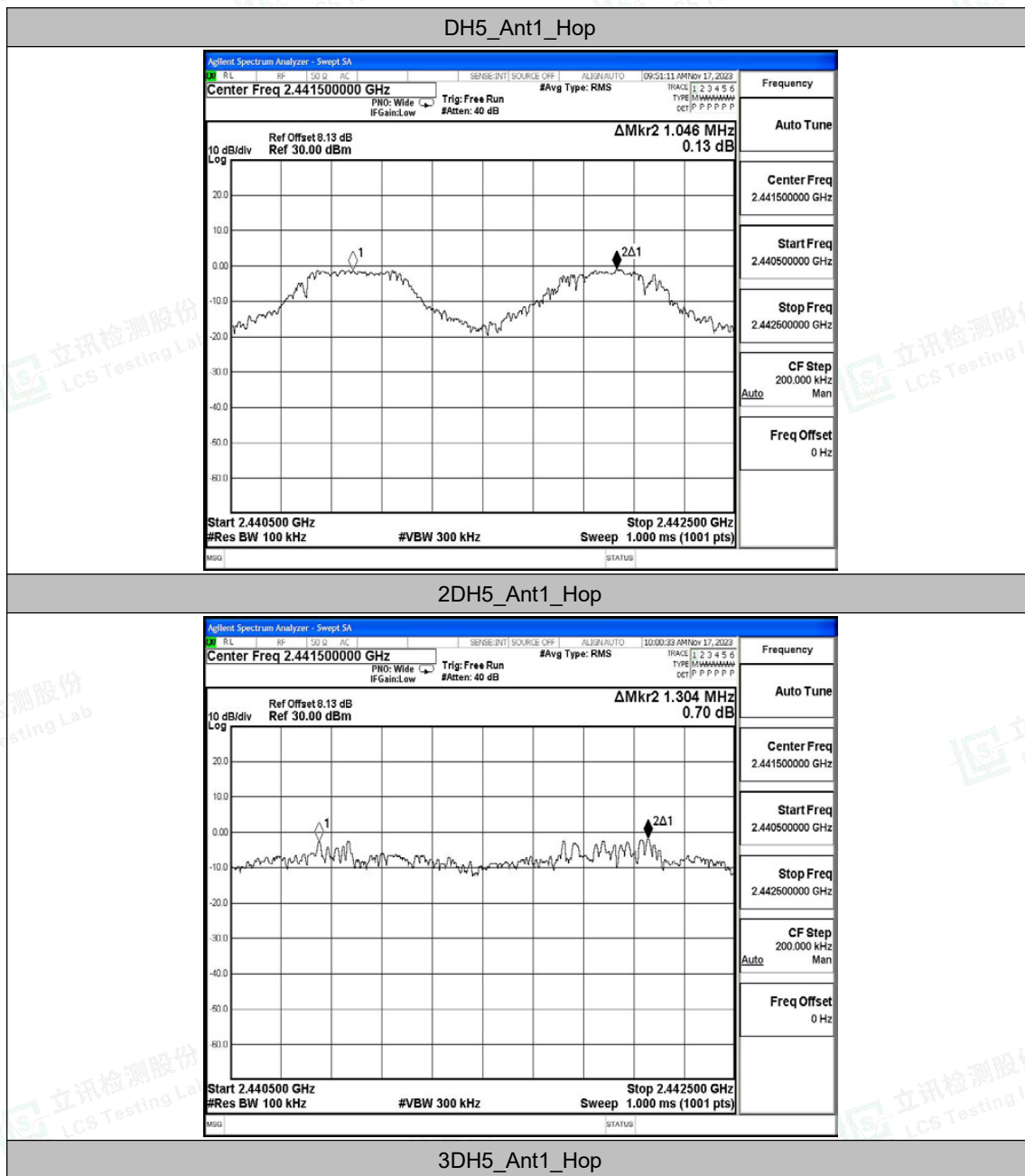
Test Result

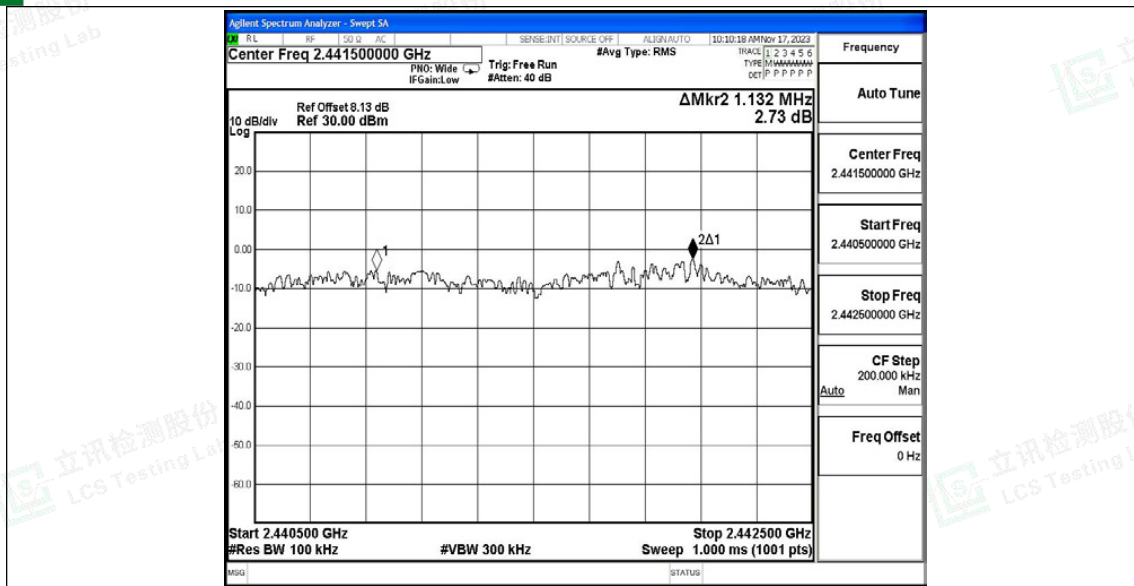
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.046	≥ 1.029	PASS
2DH5	Ant1	Hop	1.304	≥ 1.293	PASS
3DH5	Ant1	Hop	1.132	≥ 0.872	PASS





Test Graphs







A.4 Time of occupancy

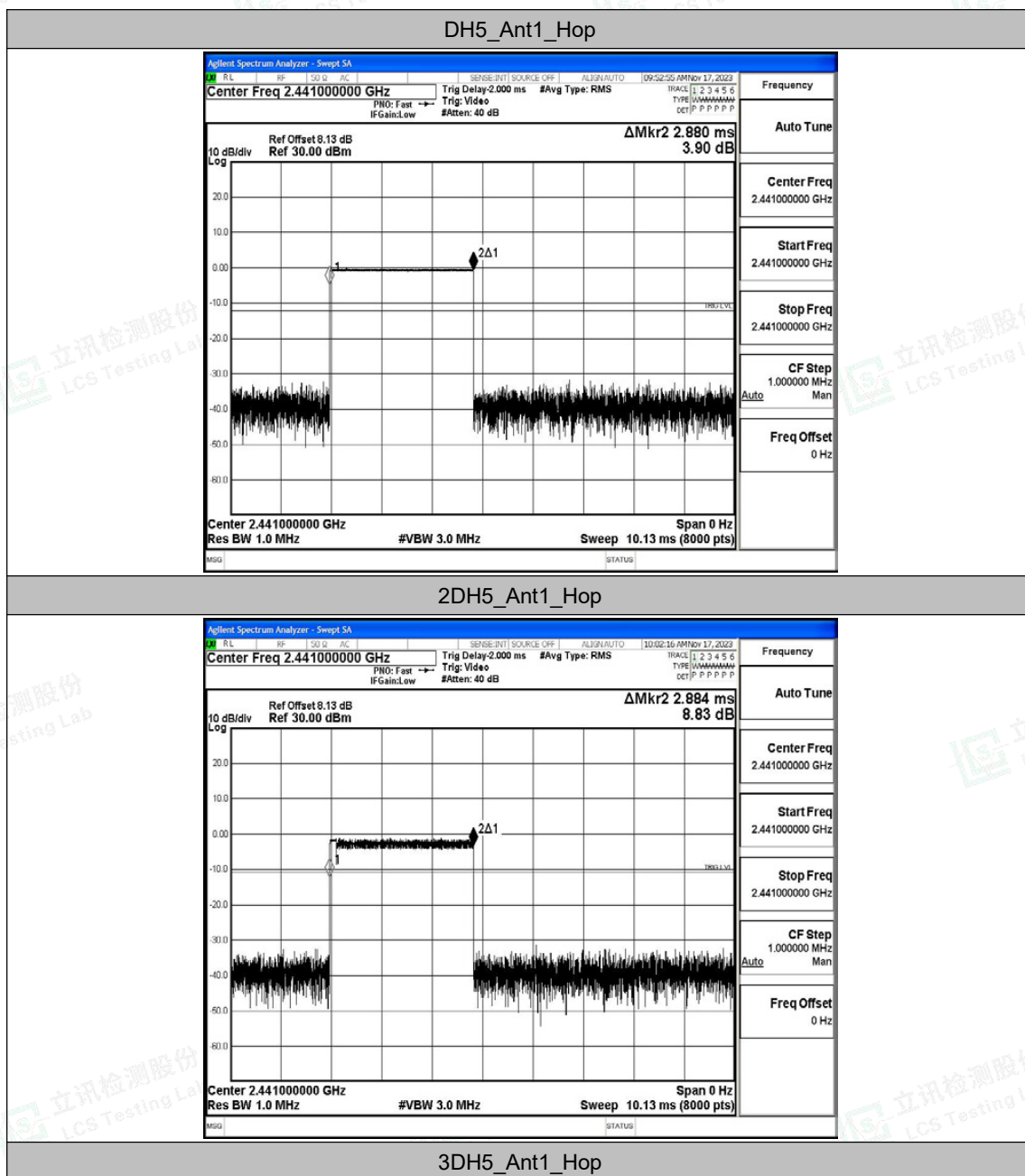
Test Result

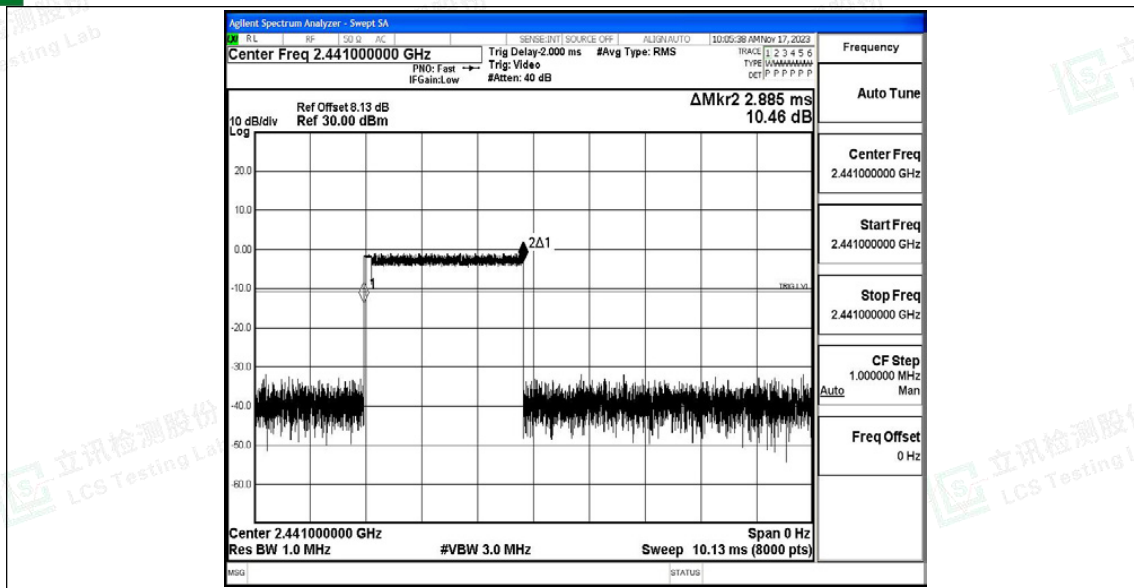
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

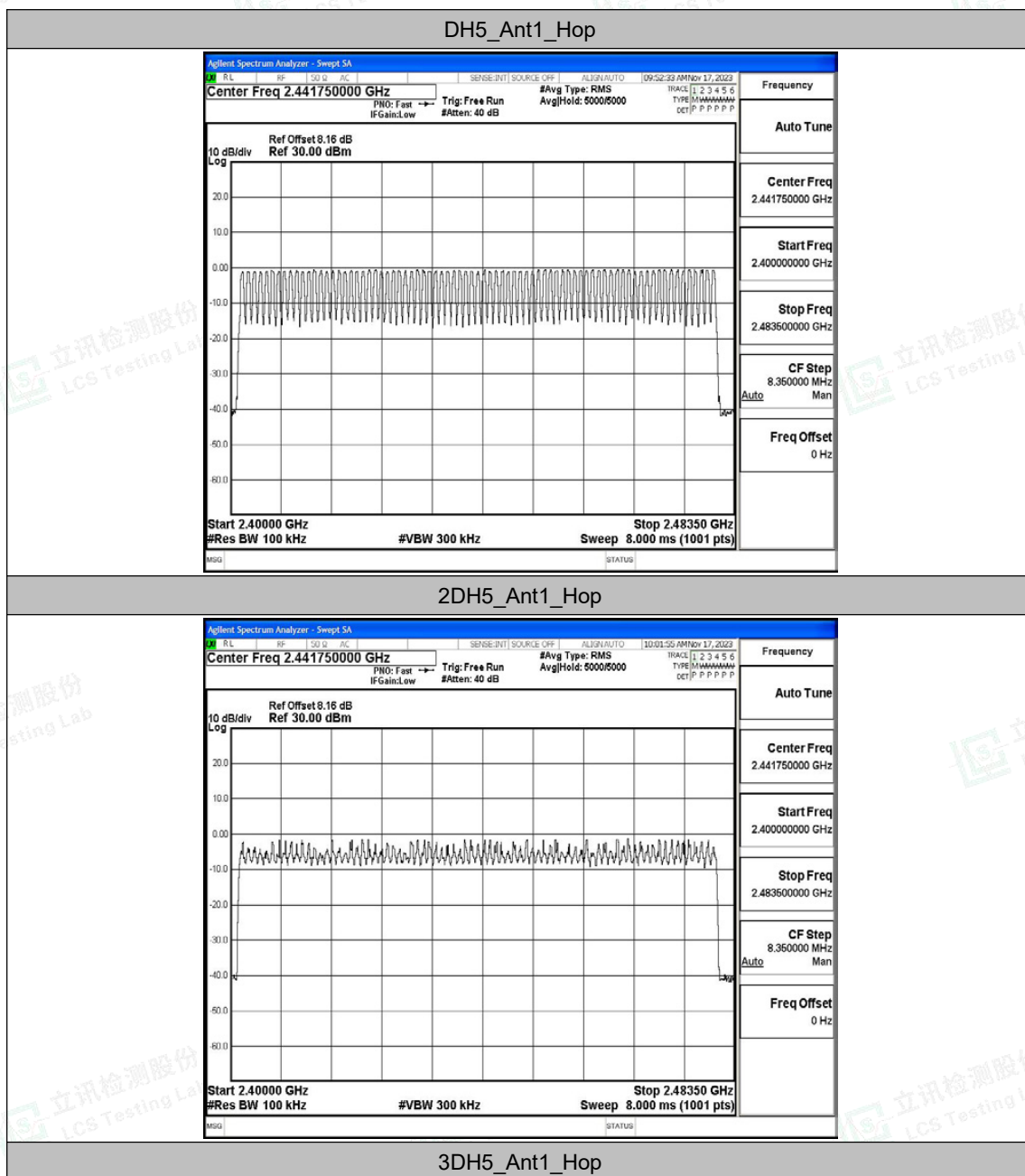
Test Result

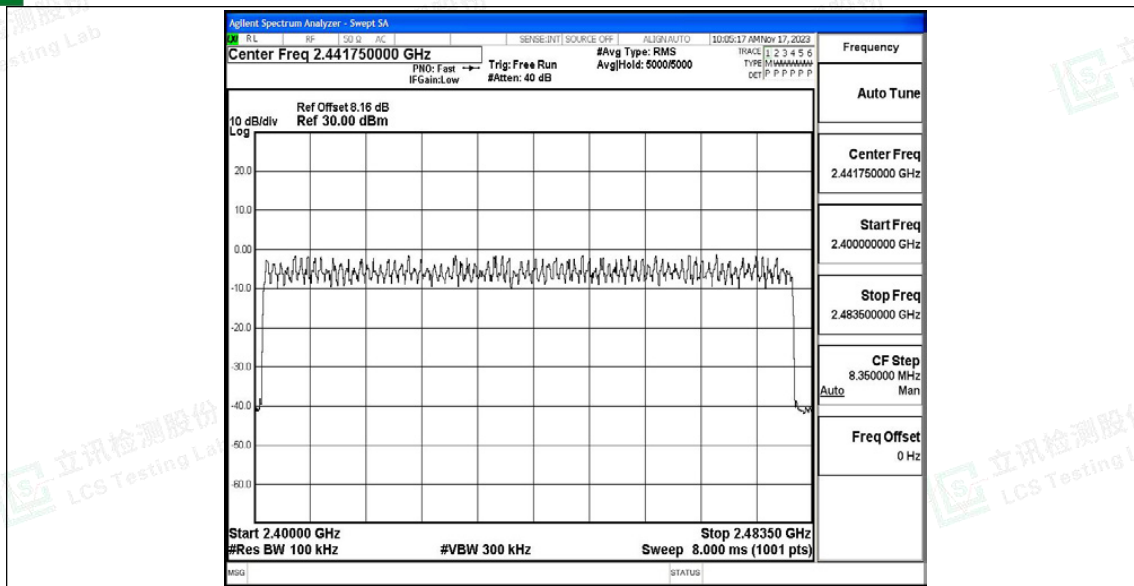
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

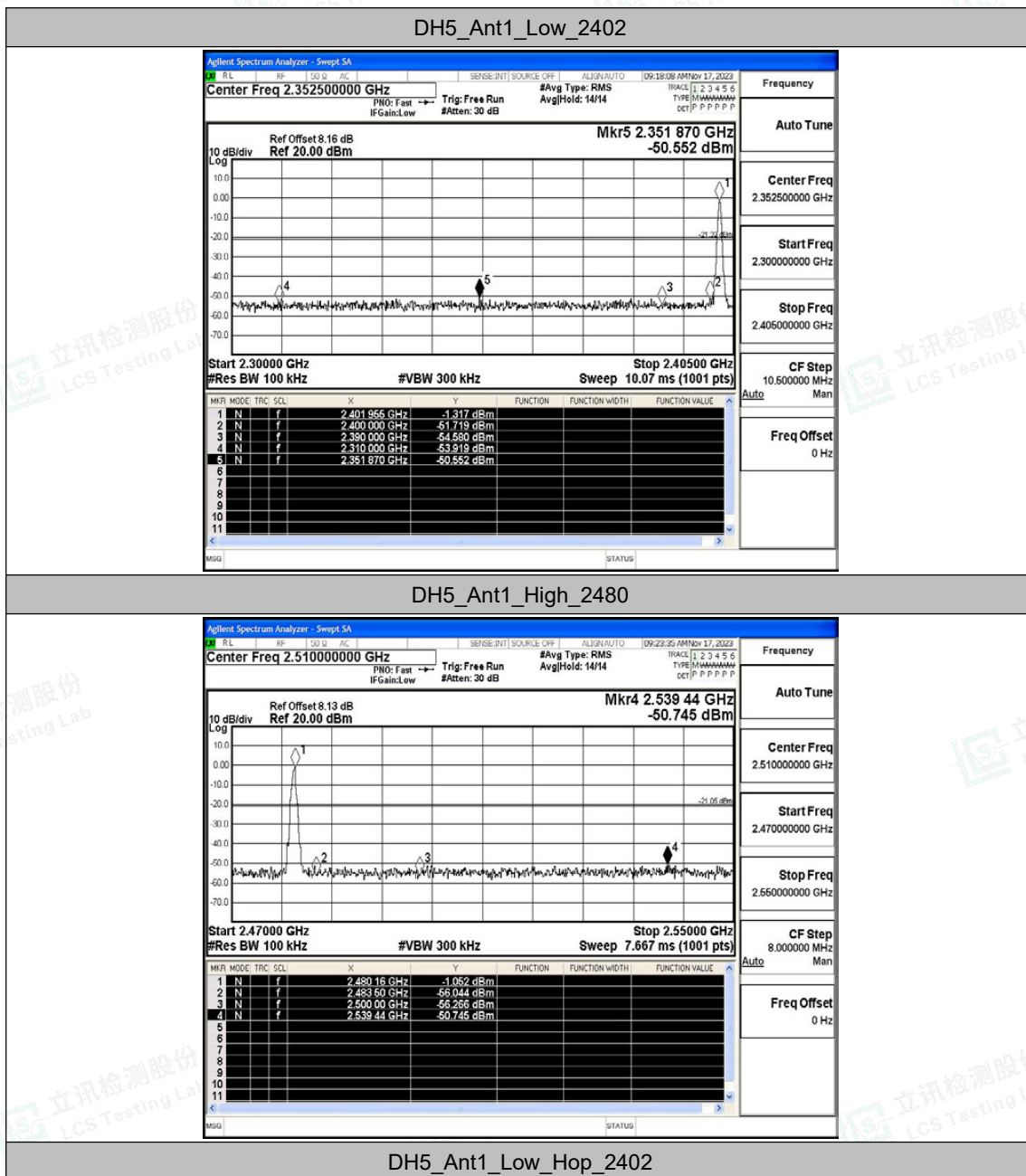
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.32	-50.55	≤ -21.32	PASS
		High	2480	-1.05	-50.75	≤ -21.05	PASS
		Low	Hop_2402	-1.41	-49.88	≤ -21.41	PASS
		High	Hop_2480	-0.67	-49.36	≤ -20.67	PASS
2DH5	Ant1	Low	2402	-6.40	-50.44	≤ -26.4	PASS
		High	2480	-5.28	-51	≤ -25.28	PASS
		Low	Hop_2402	-3.17	-49.51	≤ -23.17	PASS
		High	Hop_2480	-1.69	-48.97	≤ -21.69	PASS
3DH5	Ant1	Low	2402	-2.98	-51.13	≤ -22.98	PASS
		High	2480	-1.52	-51.06	≤ -21.52	PASS
		Low	Hop_2402	-2.39	-49.73	≤ -22.39	PASS
		High	Hop_2480	-2.01	-48.99	≤ -22.01	PASS





Test Graphs

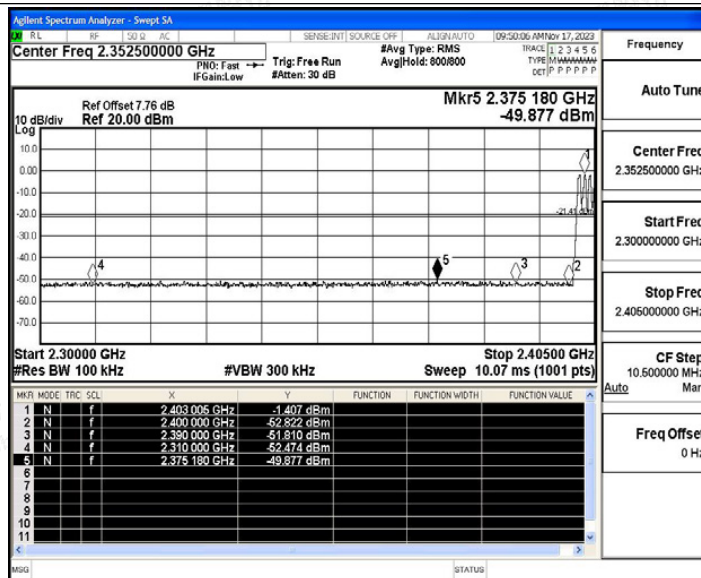


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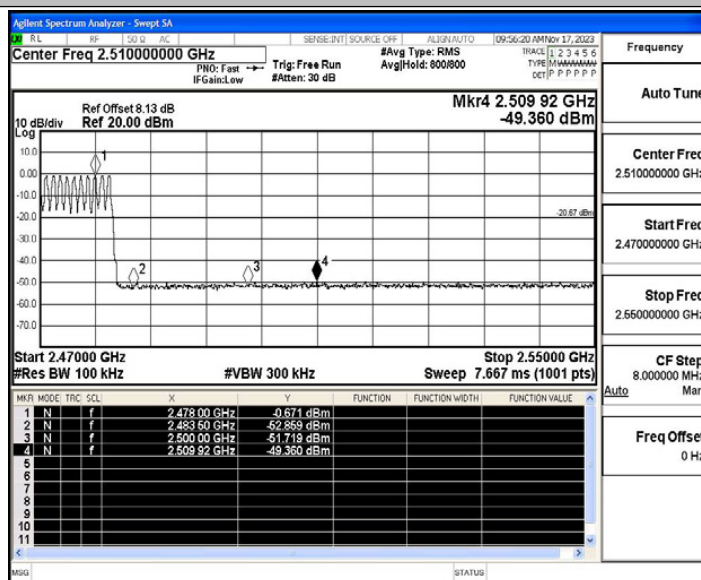
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

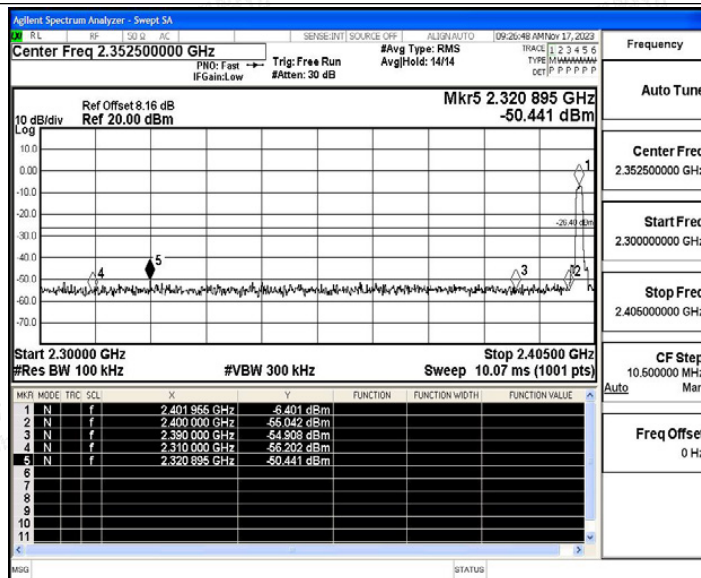


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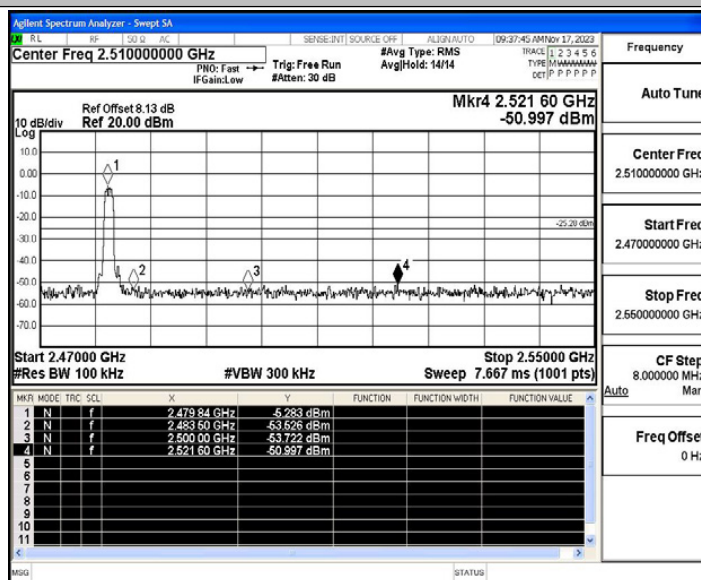
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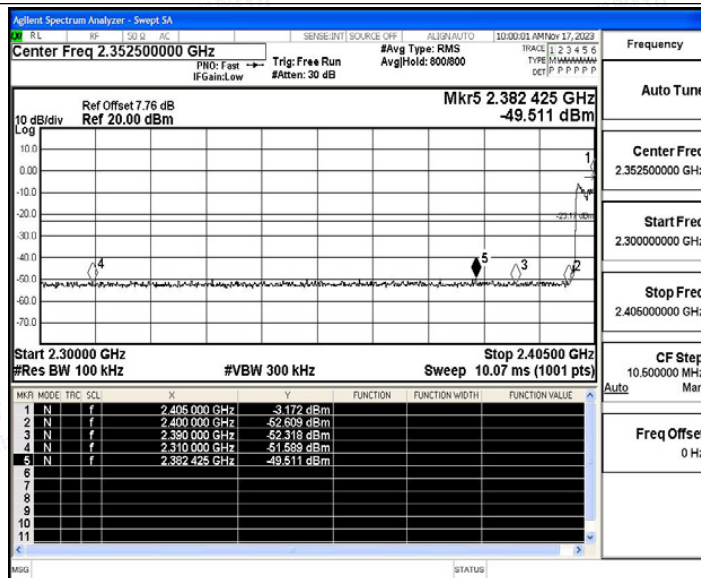


2DH5_Ant1_High_2480

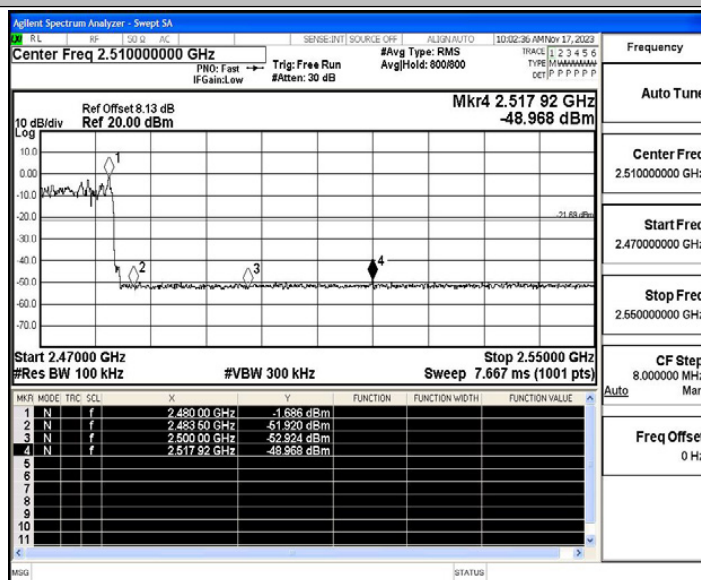


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

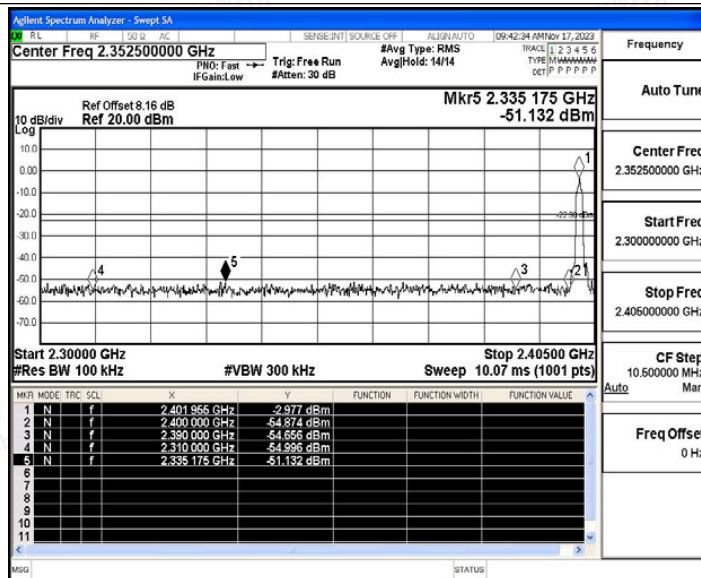


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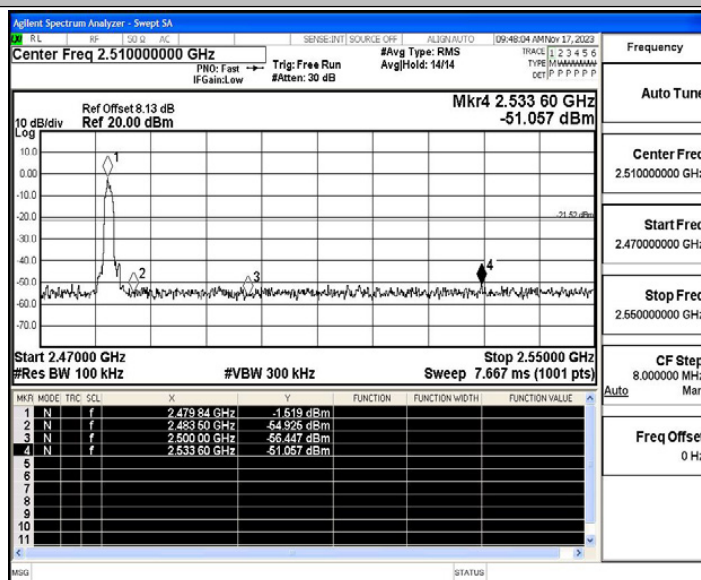
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

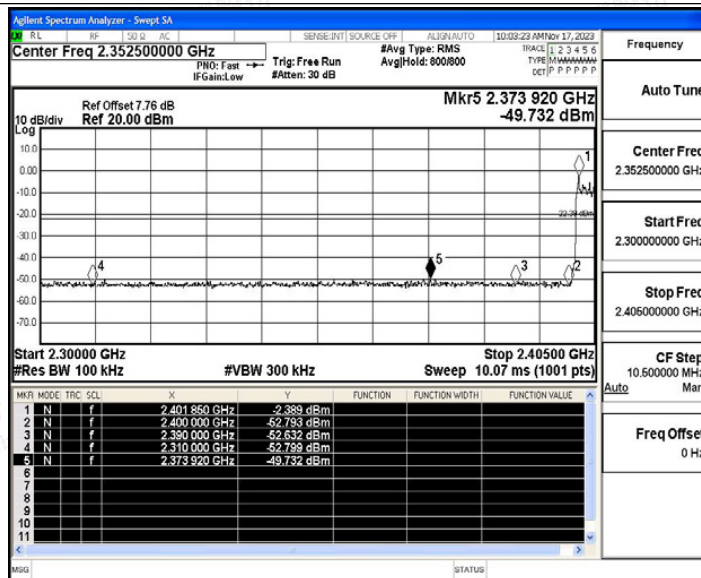


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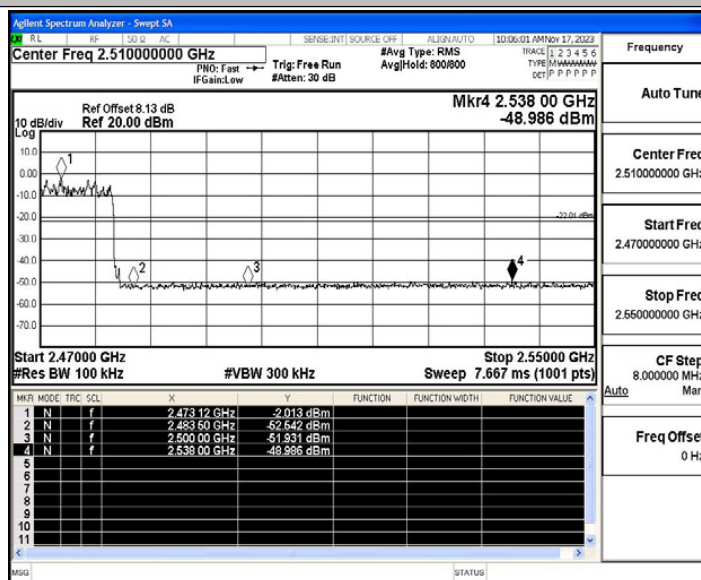
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3DH5_Ant1_High_Hop_2480



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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	-0.90	-0.90	---	PASS
			30~1000	-0.90	-61.54	≤-20.9	PASS
			1000~26500	-0.90	-48.61	≤-20.9	PASS
		2441	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-62.31	≤-21.29	PASS
			1000~26500	-1.29	-49.33	≤-21.29	PASS
		2480	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-61.22	≤-20.56	PASS
			1000~26500	-0.56	-49.33	≤-20.56	PASS
2DH5	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-61.55	≤-21.91	PASS
			1000~26500	-1.91	-49.35	≤-21.91	PASS
		2441	Reference	-2.32	-2.32	---	PASS
			30~1000	-2.32	-61.78	≤-22.32	PASS
			1000~26500	-2.32	-49.32	≤-22.32	PASS
		2480	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-61.5	≤-21.56	PASS
			1000~26500	-1.56	-48.8	≤-21.56	PASS
3DH5	Ant1	2402	Reference	-2.91	-2.91	---	PASS
			30~1000	-2.91	-61.02	≤-22.91	PASS
			1000~26500	-2.91	-48.55	≤-22.91	PASS
		2441	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-61.31	≤-21.69	PASS
			1000~26500	-1.69	-49.32	≤-21.69	PASS
		2480	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-61.51	≤-21.67	PASS
			1000~26500	-1.67	-48.9	≤-21.67	PASS



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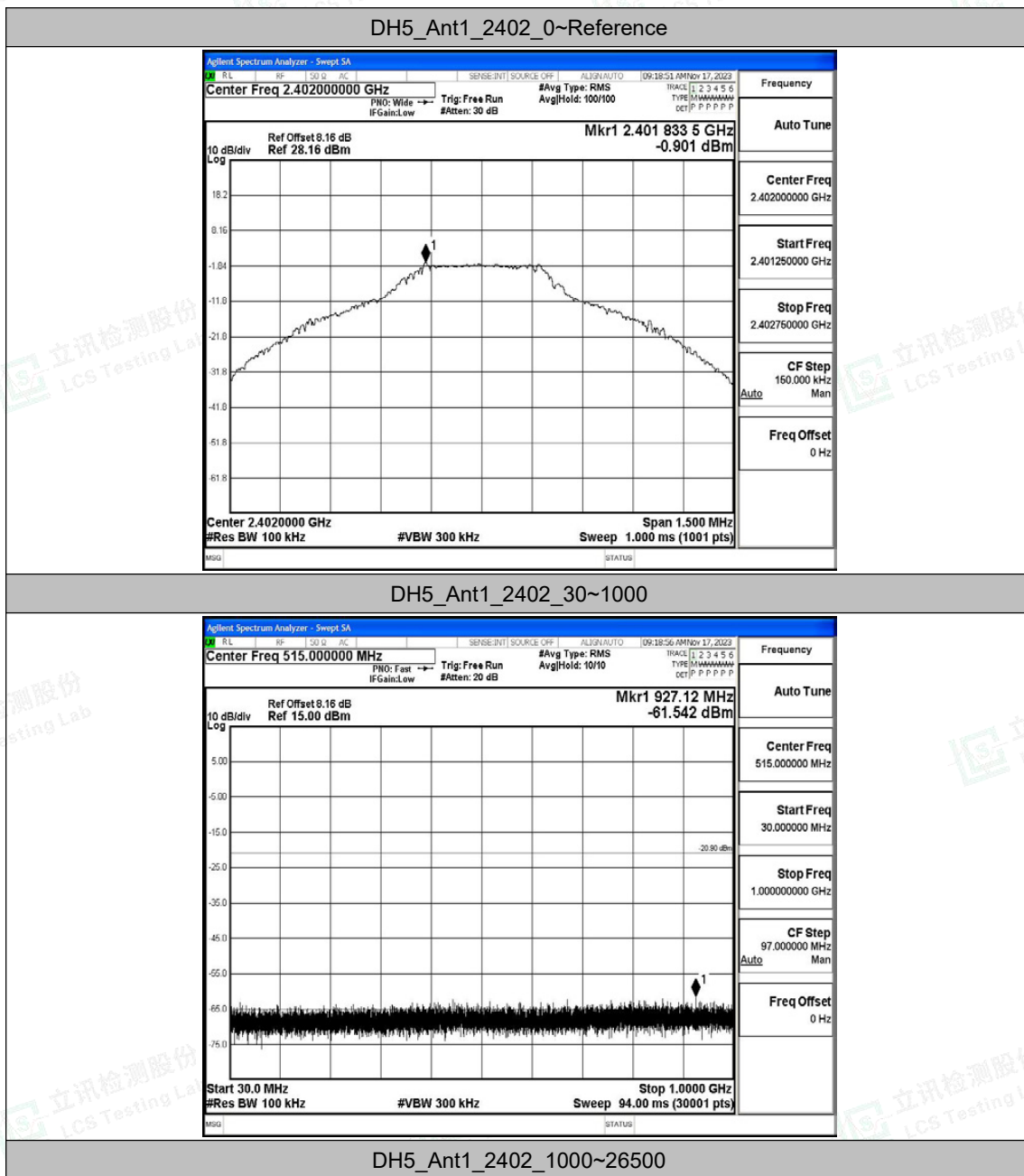
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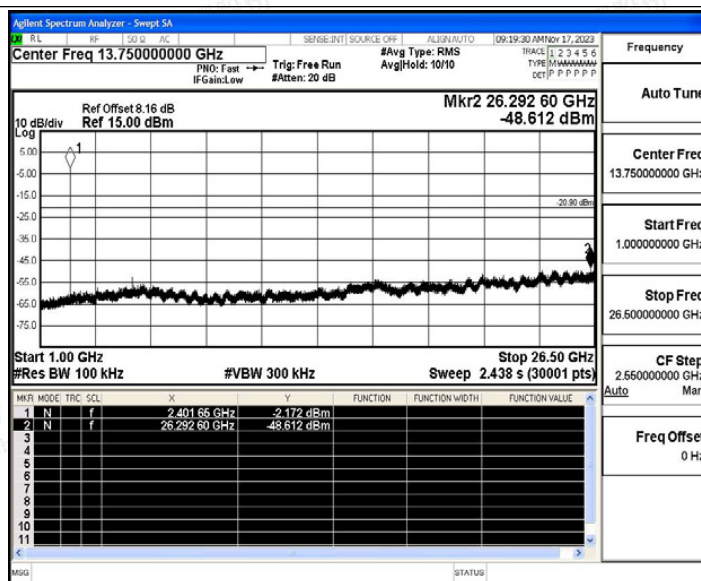
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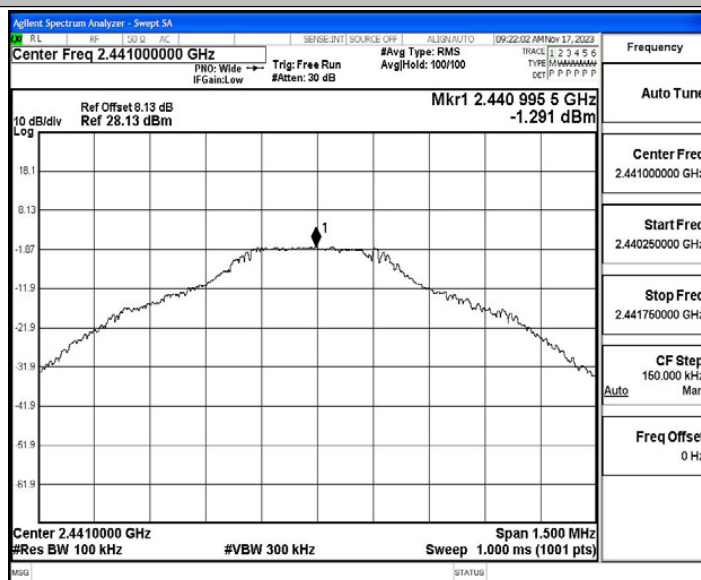


Test Graphs



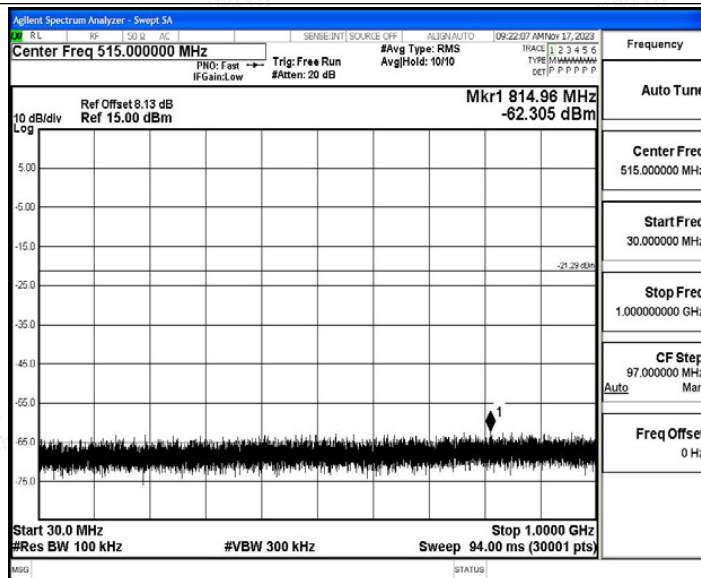


DH5_Ant1_2441_0~Reference

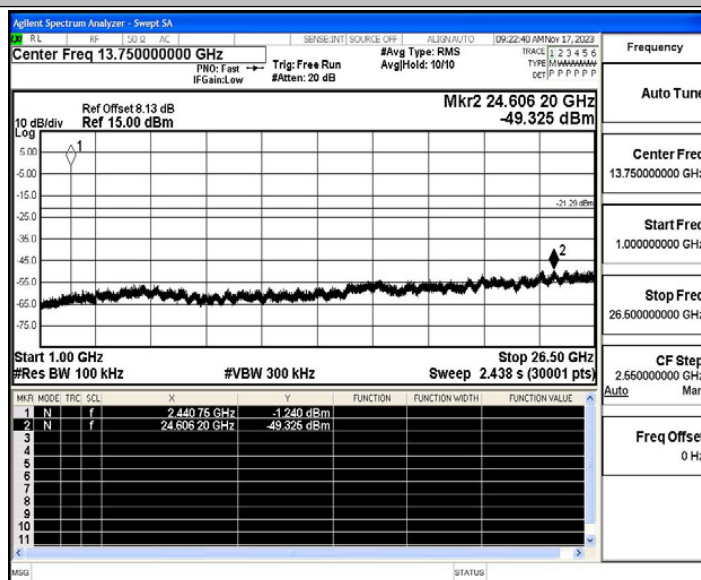


DH5_Ant1_2441_30~1000



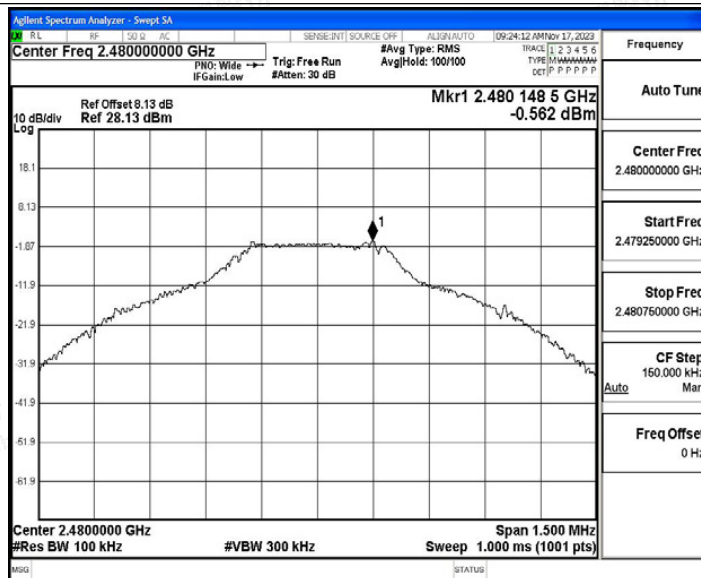


DH5_Ant1_2441_1000~26500

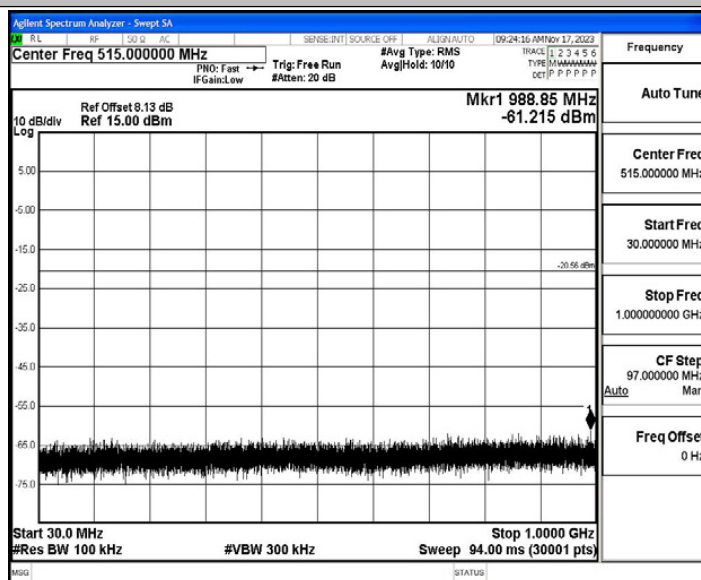


DH5_Ant1_2480_0~Reference



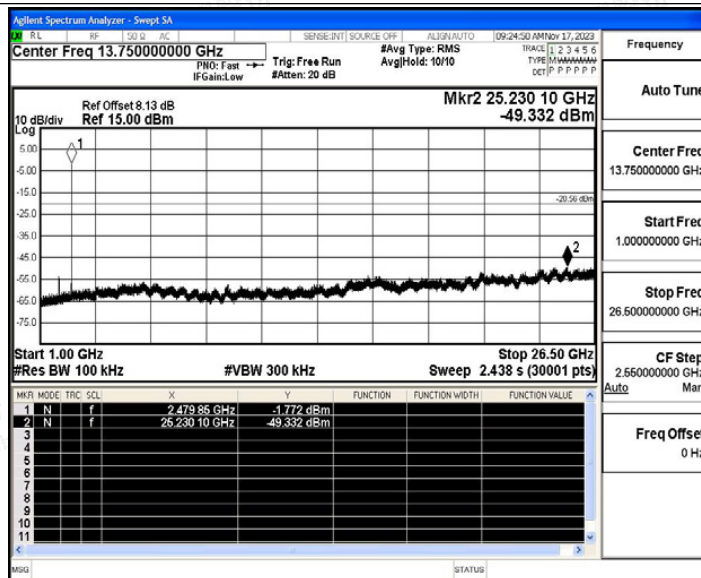


DH5_Ant1_2480_30~1000

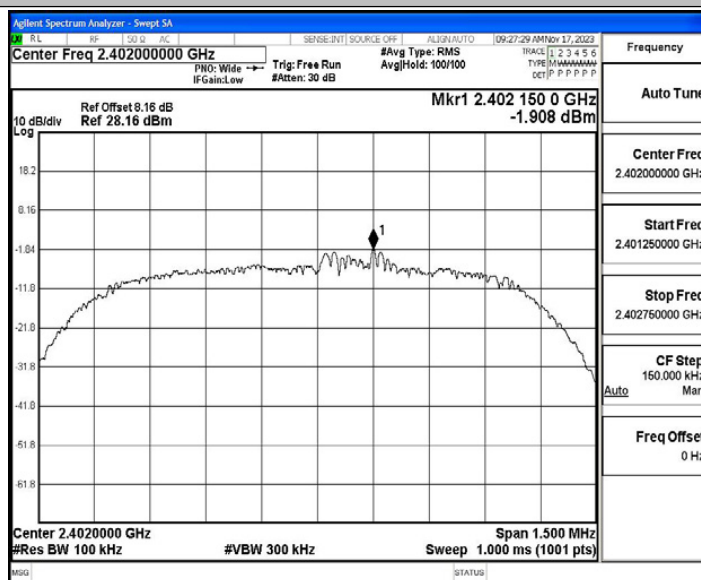


DH5_Ant1_2480_1000~26500



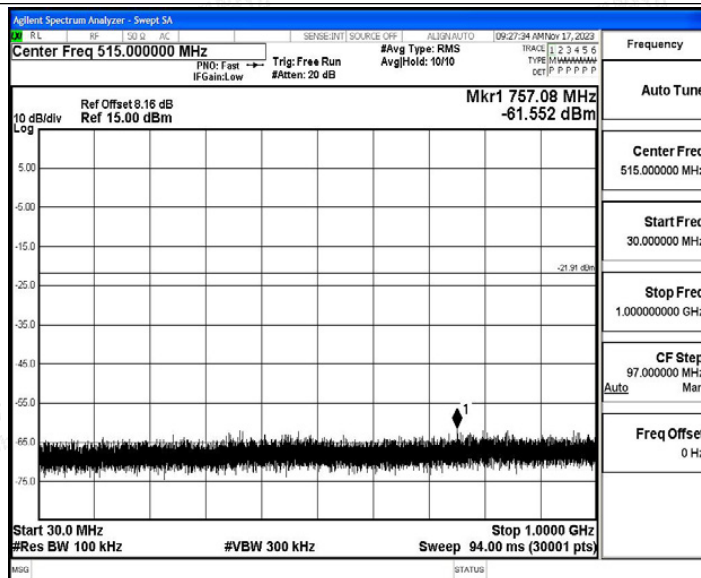


2DH5_Ant1_2402_0~Reference

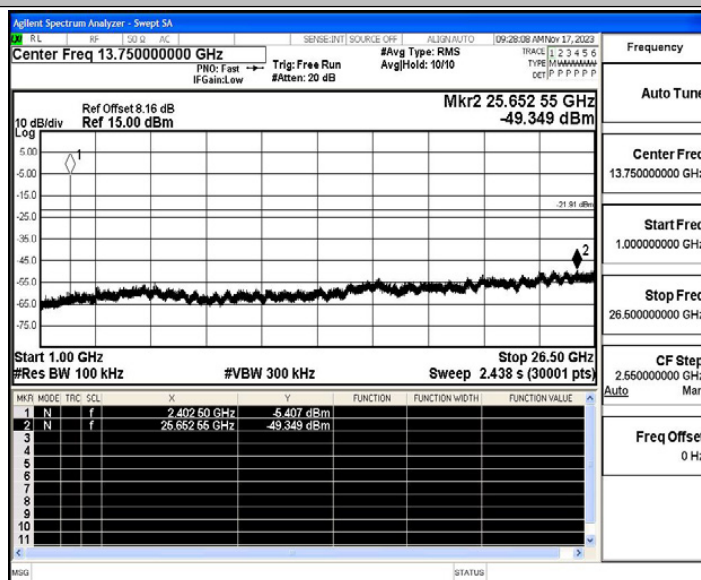


2DH5_Ant1_2402_30~1000





2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



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