



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TV Dongle for PSA5035

Test Model: PSD5040

Environmental Conditions

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



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A.1 20dB Emission Bandwidth

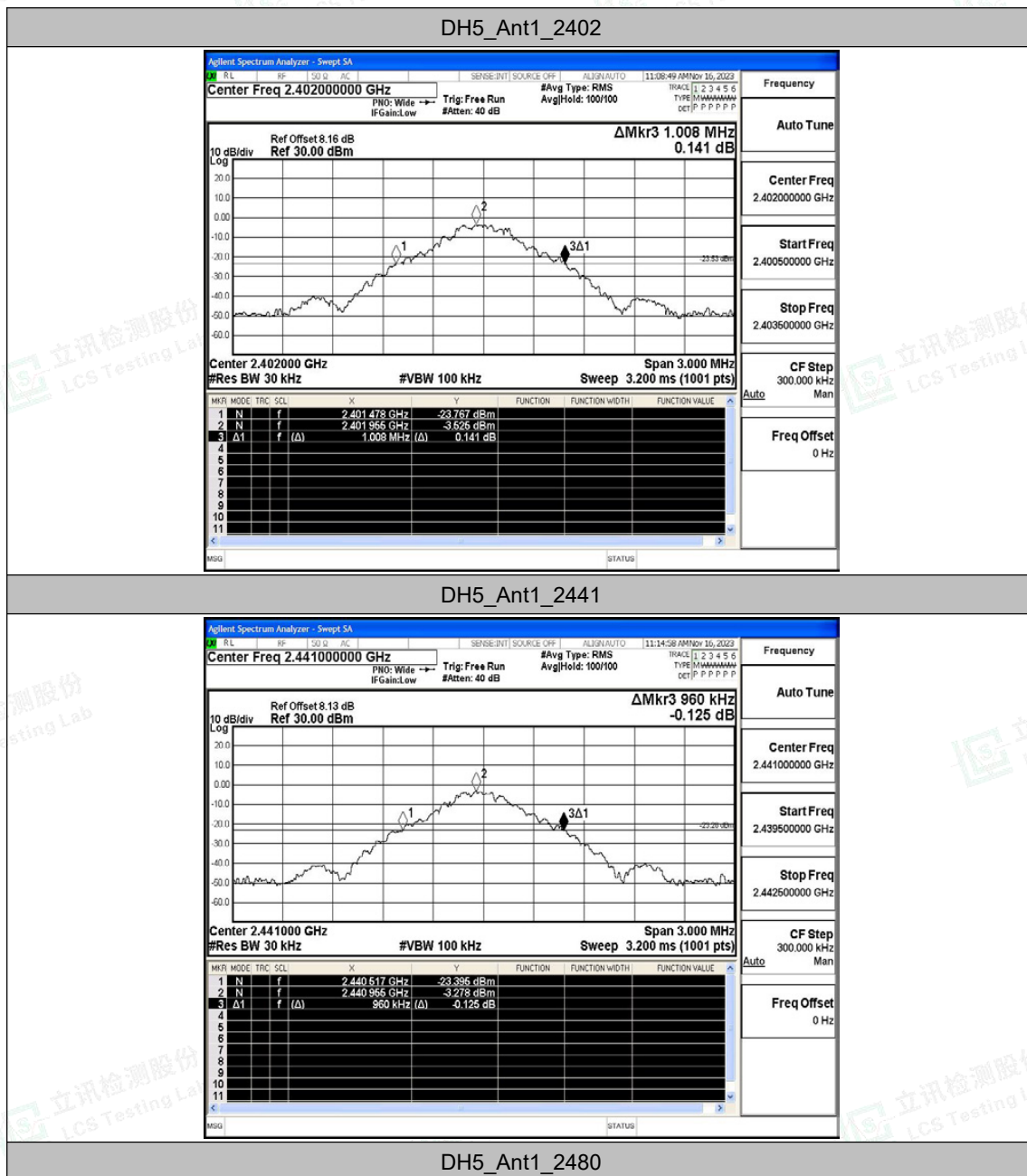
Test Result

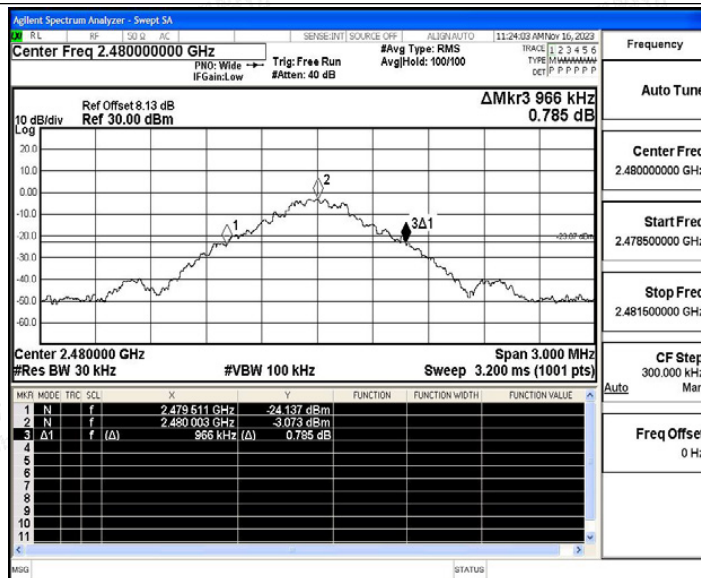
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.008	2401.478	2402.486	---
		2441	0.960	2440.517	2441.477	---
		2480	0.966	2479.511	2480.477	---
2DH5	Ant1	2402	1.296	2401.346	2402.642	---
		2441	1.320	2440.325	2441.645	---
		2480	1.335	2479.319	2480.654	---
3DH5	Ant1	2402	1.305	2401.334	2402.639	---
		2441	1.305	2440.334	2441.639	---
		2480	1.305	2479.334	2480.639	---



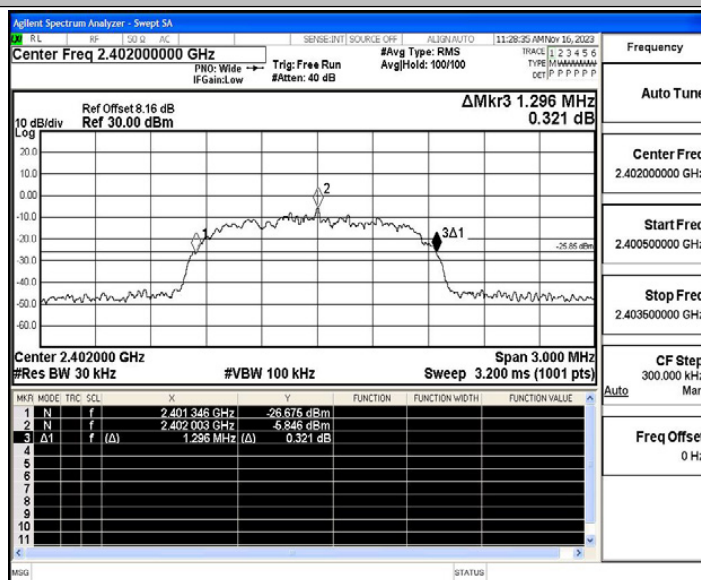


Test Graphs



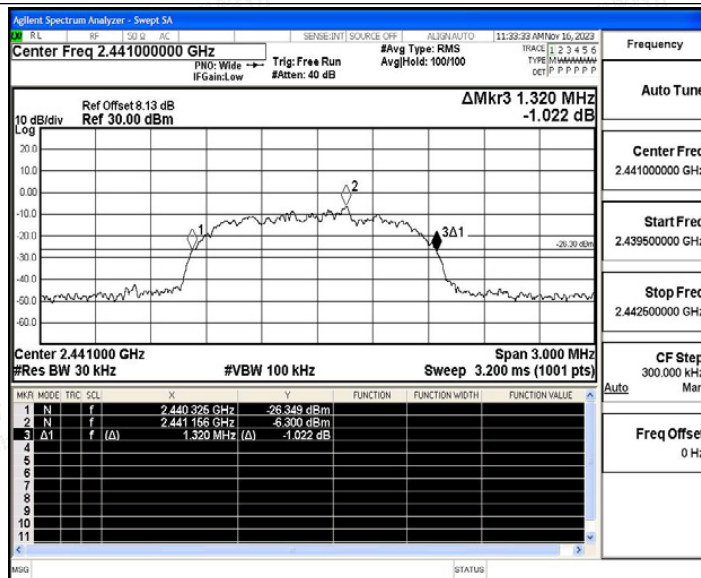


2DH5_Ant1_2402

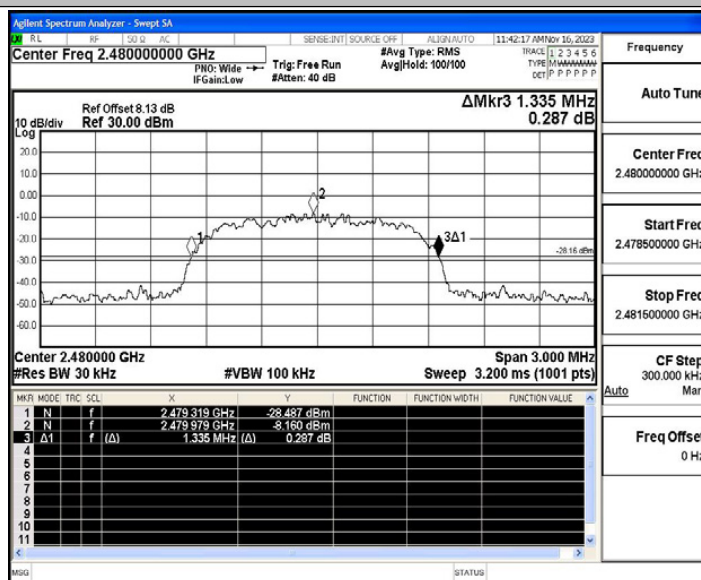


2DH5_Ant1_2441





2DH5_Ant1_2480



3DH5_Ant1_2402

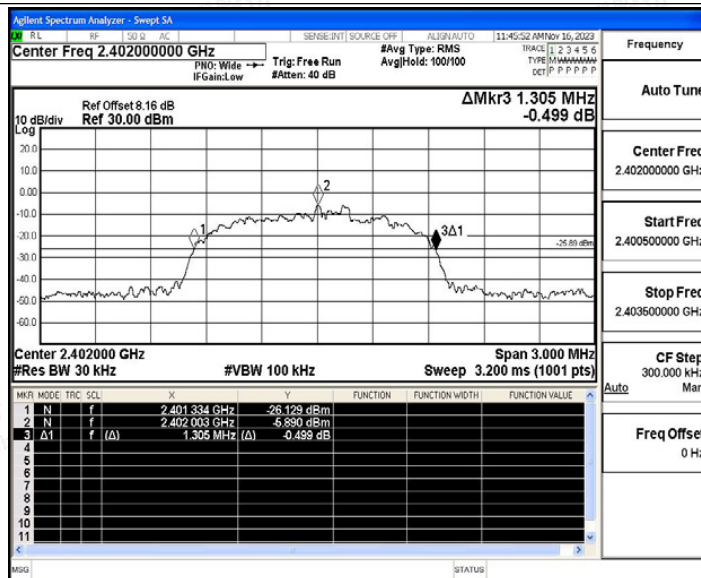


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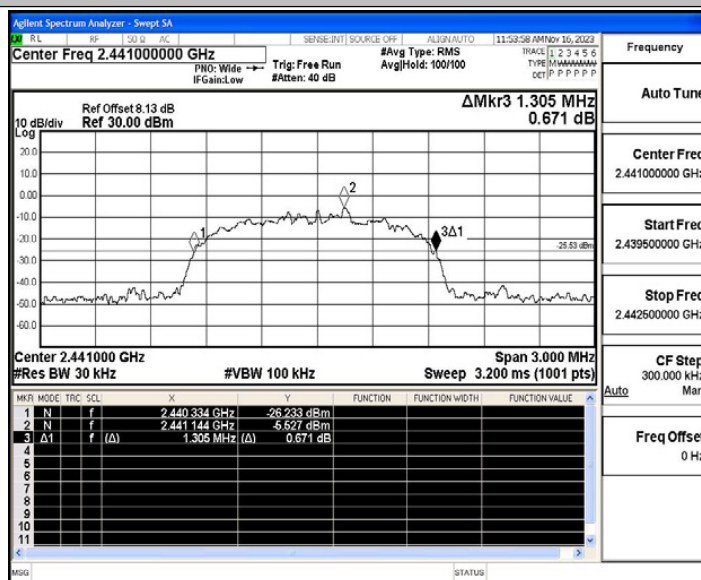
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3DH5_Ant1_2441



3DH5_Ant1_2480

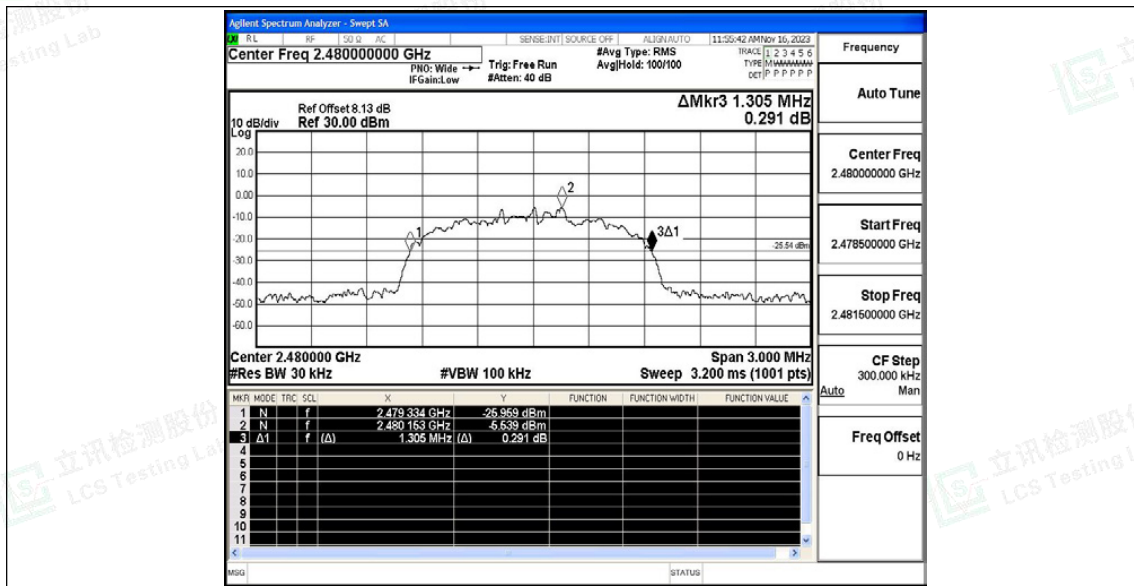


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A.2 Maximum conducted output power

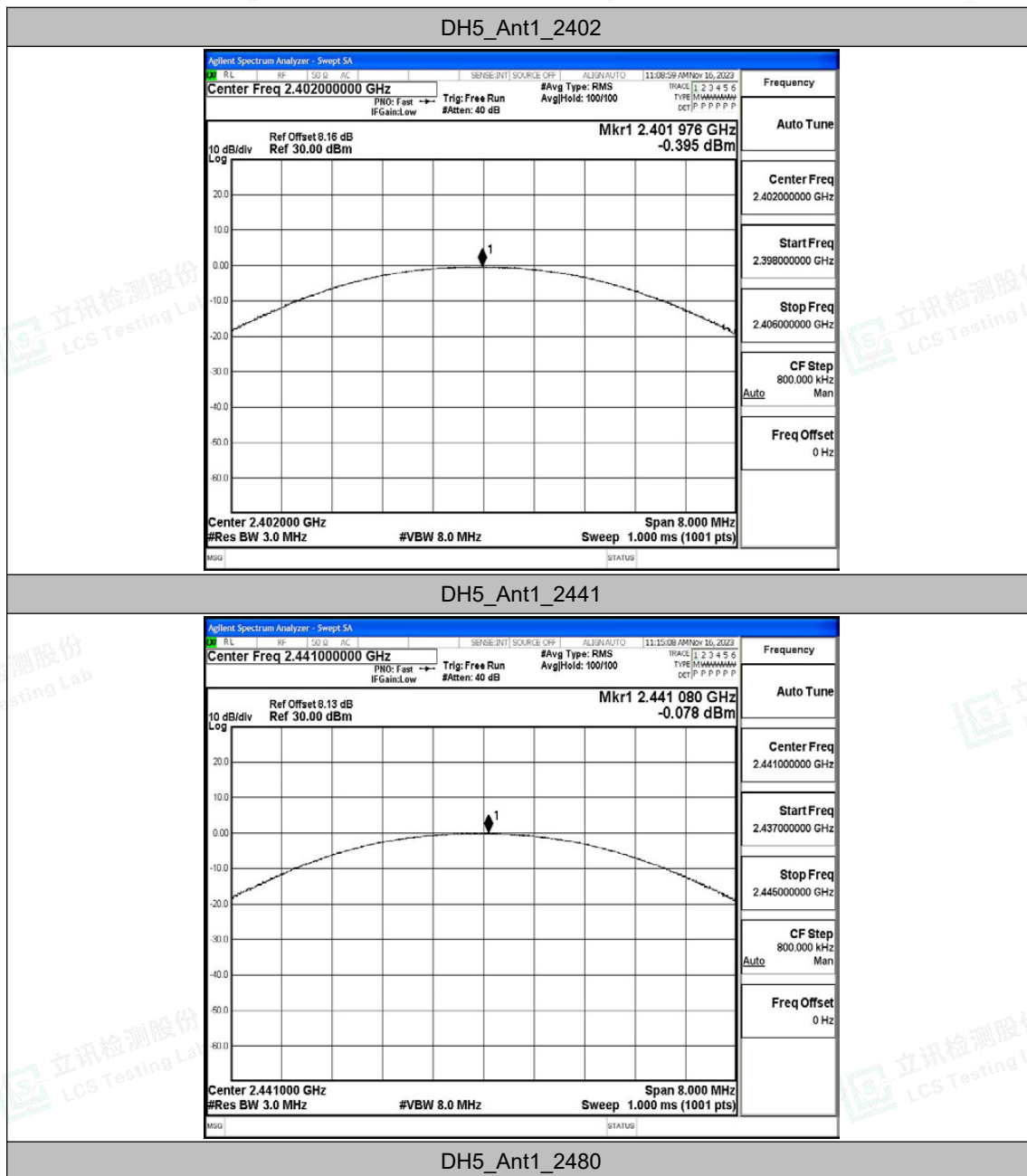
Test Result

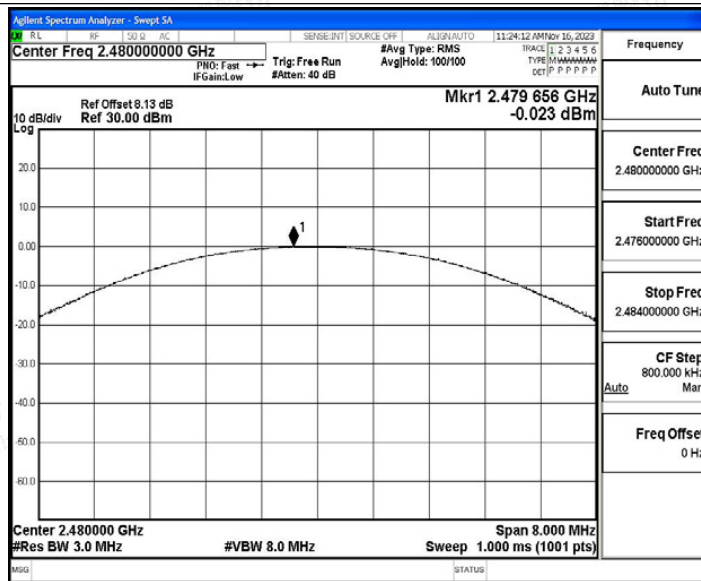
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.4	≤21	PASS
		2441	-0.08	≤21	PASS
		2480	-0.02	≤21	PASS
2DH5	Ant1	2402	-0.96	≤21	PASS
		2441	-0.84	≤21	PASS
		2480	-0.62	≤21	PASS
3DH5	Ant1	2402	-0.84	≤21	PASS
		2441	-0.6	≤21	PASS
		2480	-0.53	≤21	PASS



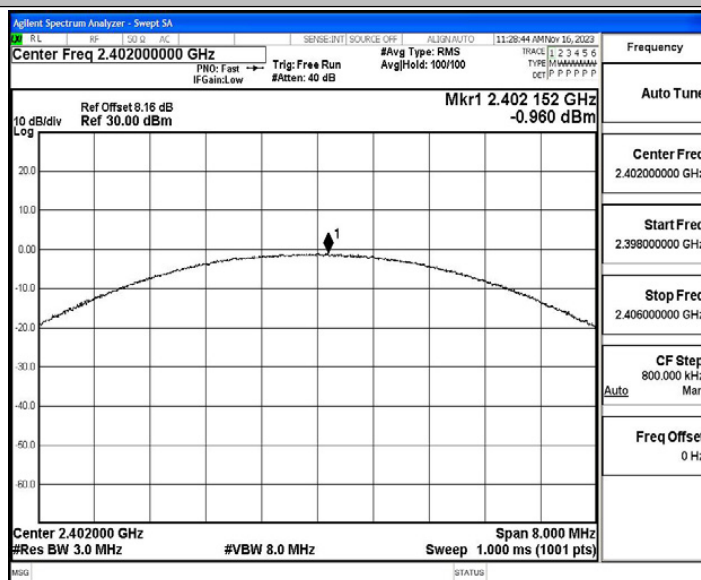


Test Graphs



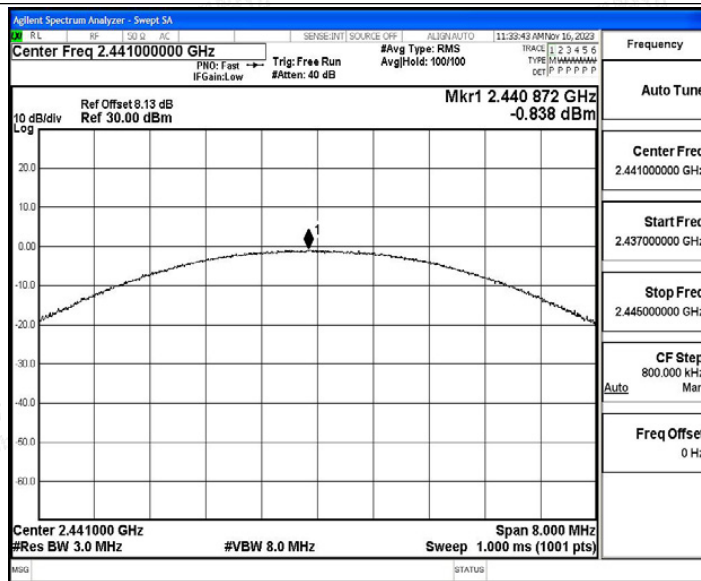


2DH5_Ant1_2402

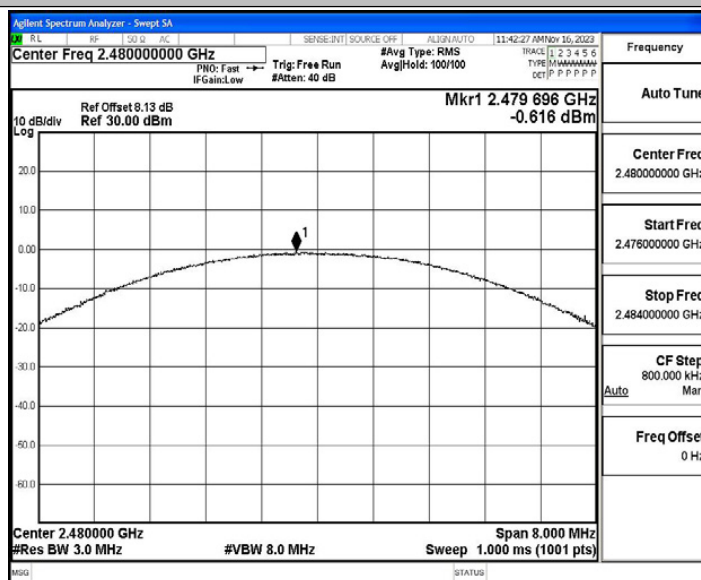


2DH5_Ant1_2441



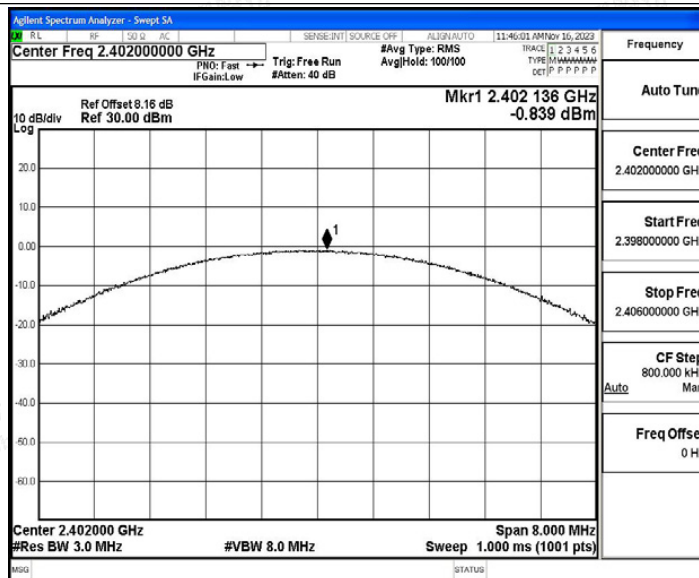


2DH5_Ant1_2480

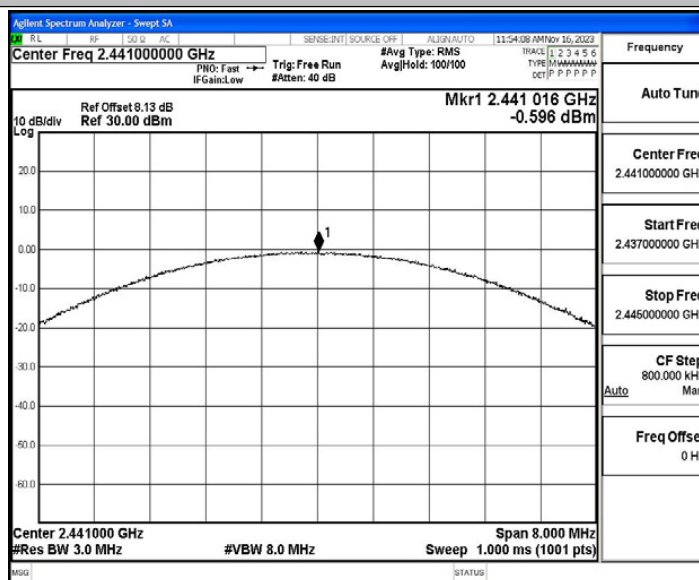


3DH5_Ant1_2402



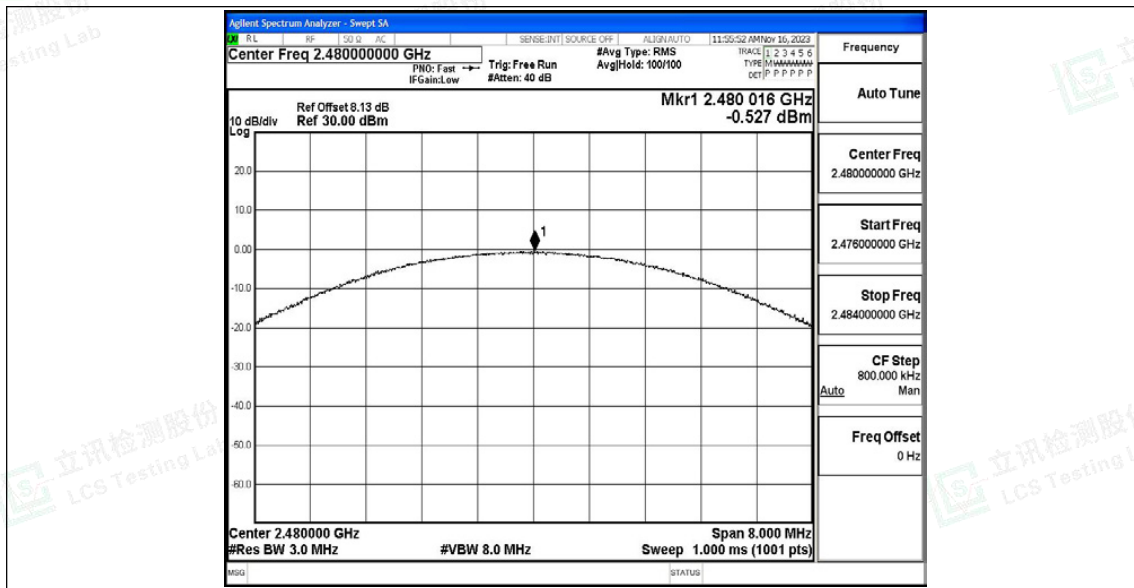


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

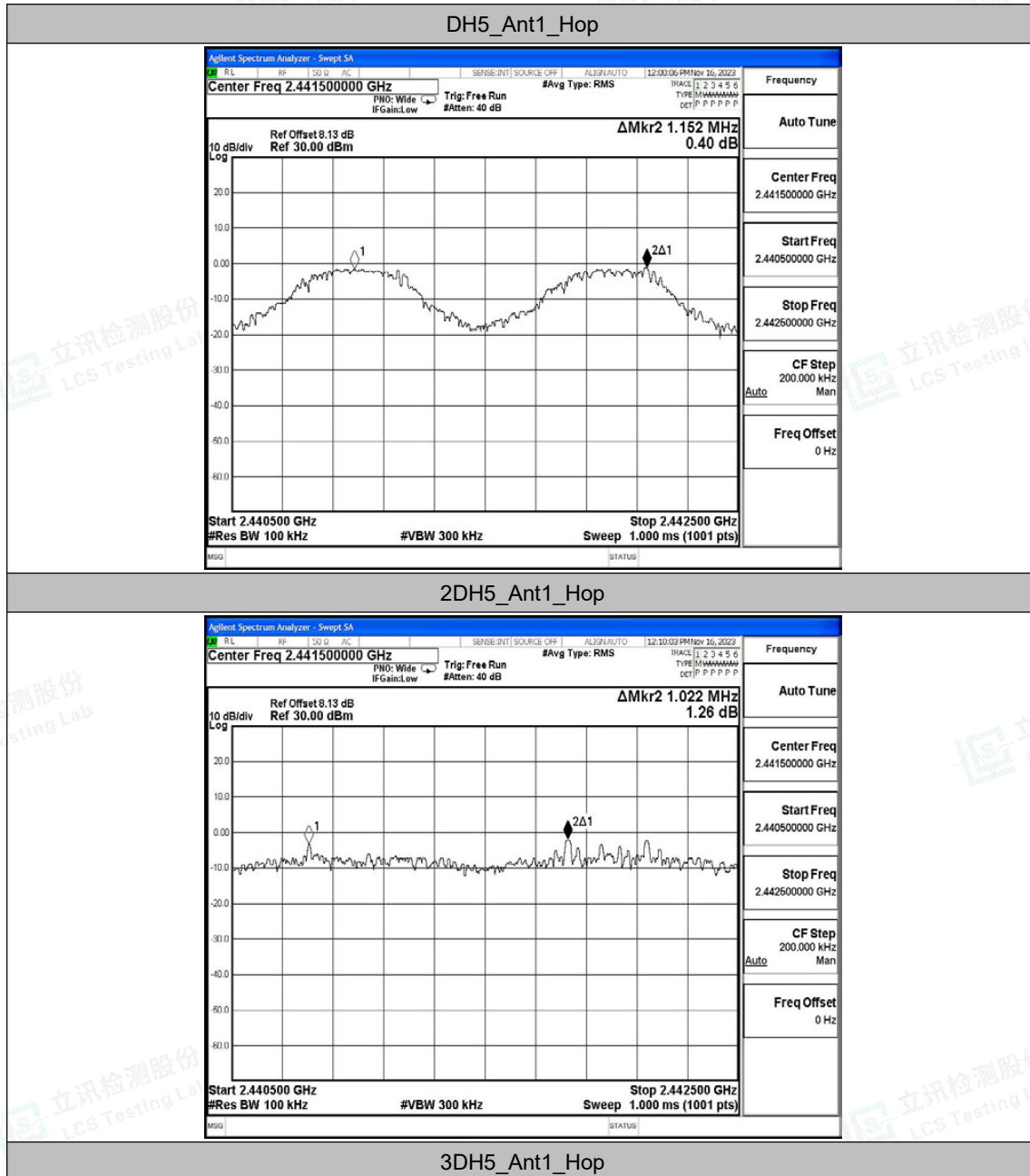
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.152	≥ 1.008	PASS
2DH5	Ant1	Hop	1.022	≥ 0.890	PASS
3DH5	Ant1	Hop	1.242	≥ 0.870	PASS





Test Graphs

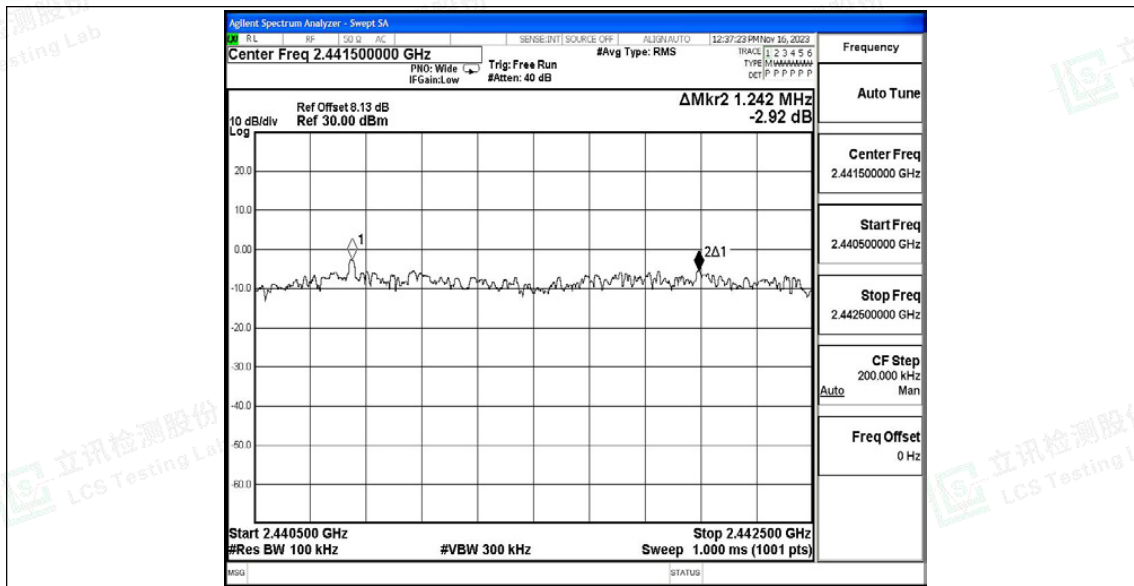


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A.4 Time of occupancy

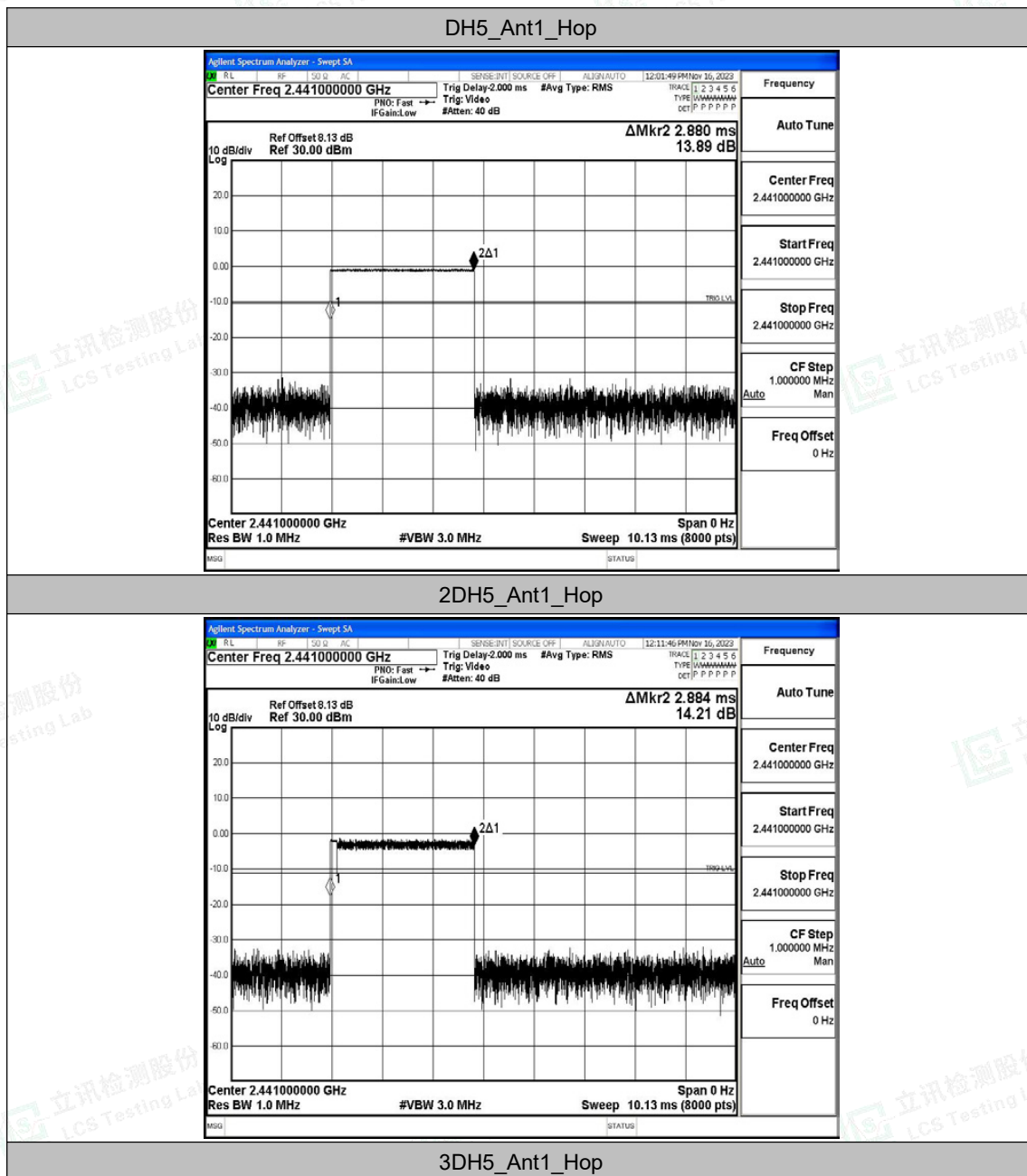
Test Result

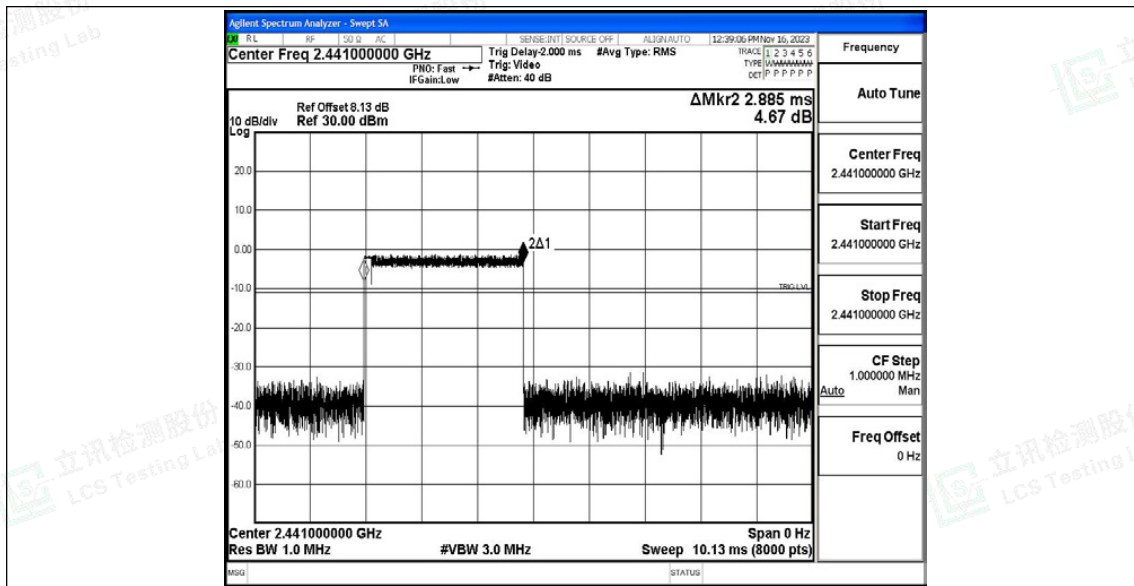
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

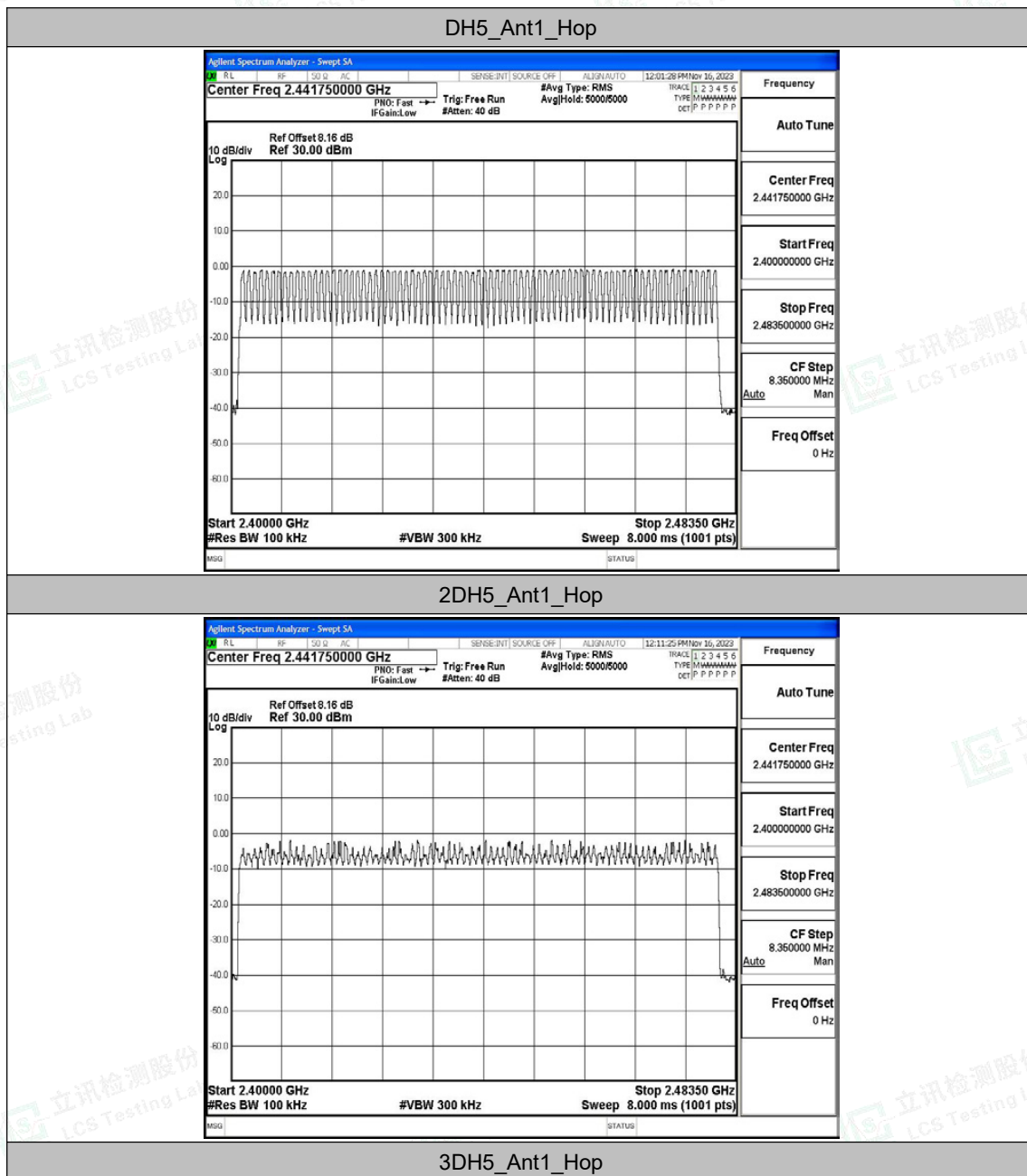
Test Result

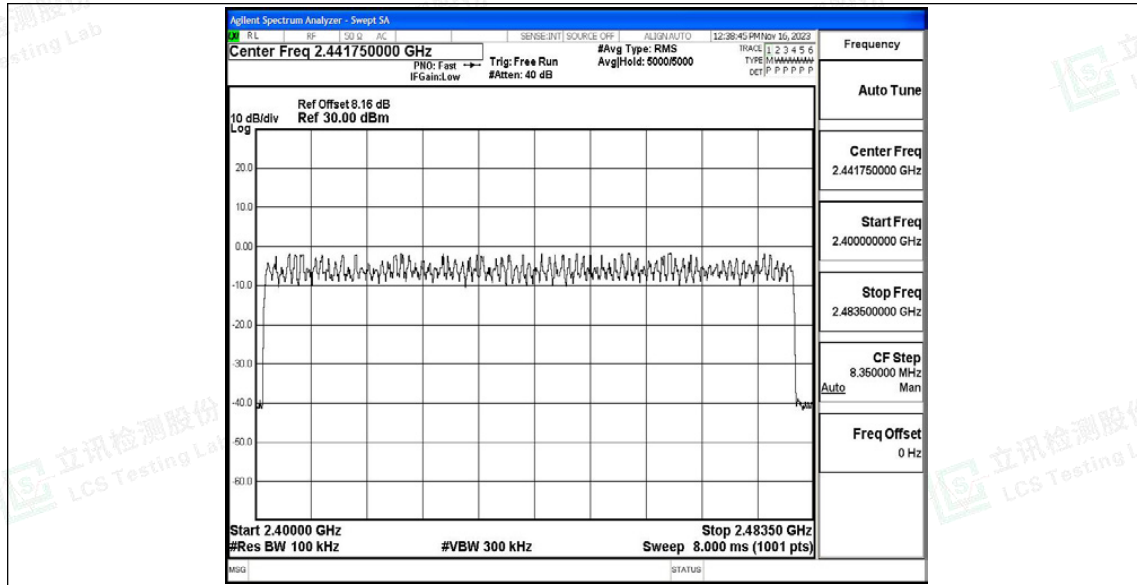
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

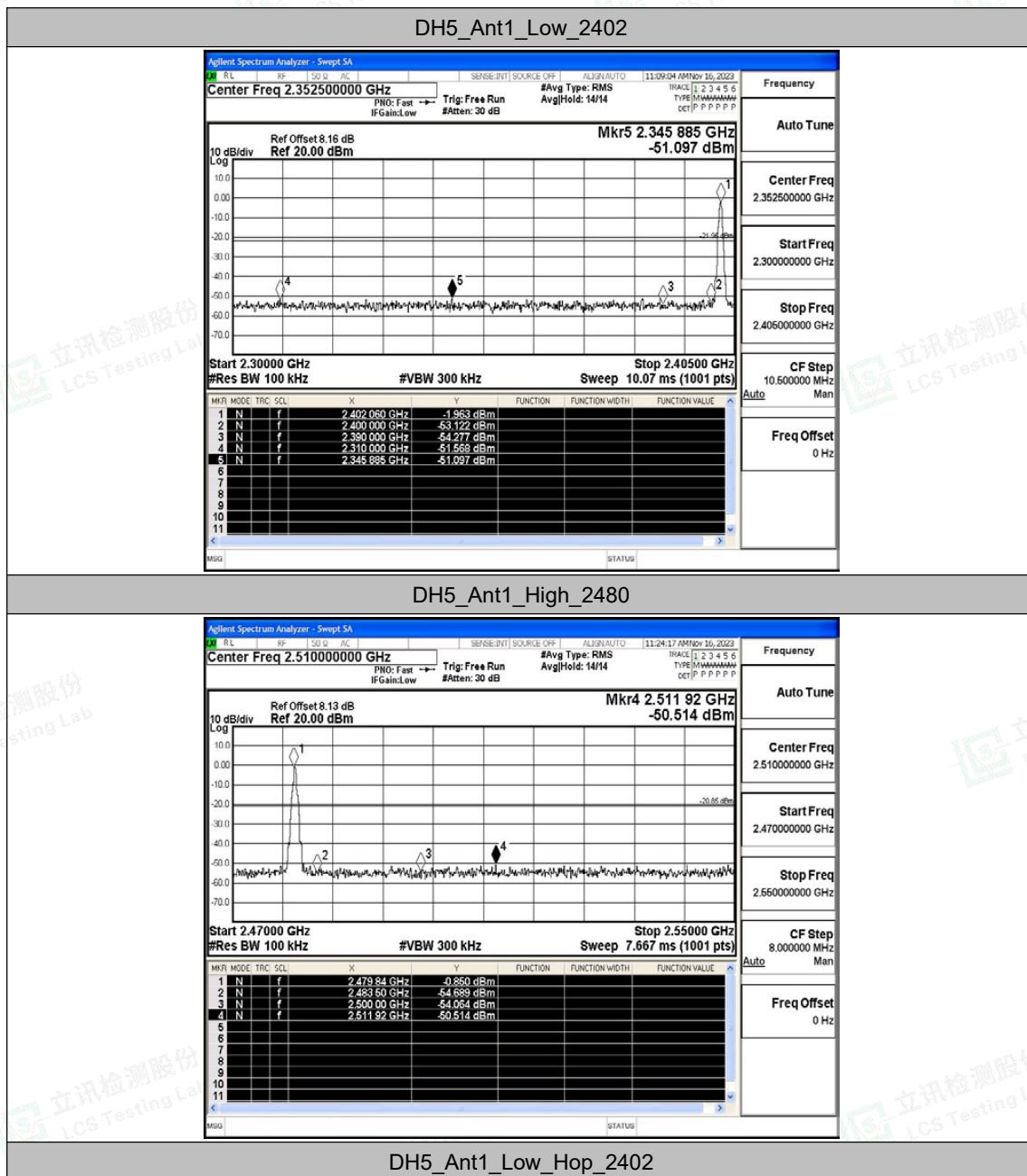
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.96	-51.1	≤ -21.96	PASS
		High	2480	-0.85	-50.51	≤ -20.85	PASS
		Low	Hop_2402	-1.51	-49.79	≤ -21.51	PASS
		High	Hop_2480	-1.02	-49.16	≤ -21.02	PASS
2DH5	Ant1	Low	2402	-4.78	-51.33	≤ -24.78	PASS
		High	2480	-4.24	-50.67	≤ -24.24	PASS
		Low	Hop_2402	-4.71	-49.78	≤ -24.71	PASS
		High	Hop_2480	-2.26	-48.84	≤ -22.26	PASS
3DH5	Ant1	Low	2402	-4.54	-50.18	≤ -24.54	PASS
		High	2480	-6.23	-49.86	≤ -26.23	PASS
		Low	Hop_2402	-5.56	-49.42	≤ -25.56	PASS
		High	Hop_2480	-1.77	-48.61	≤ -21.77	PASS





Test Graphs

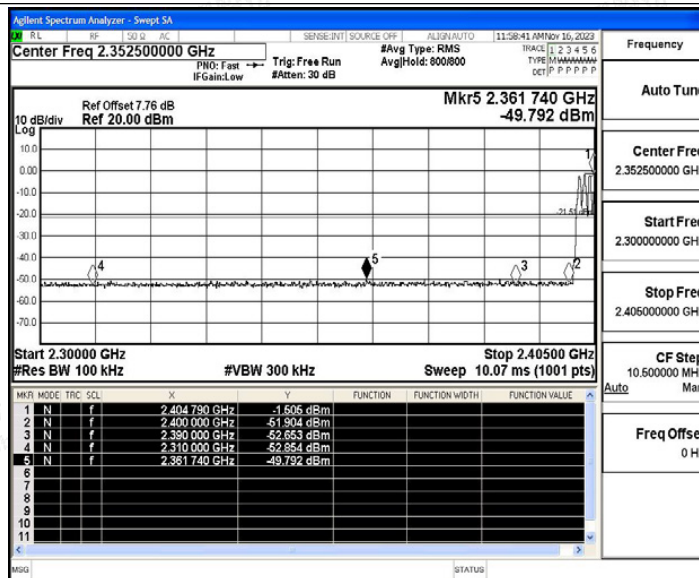


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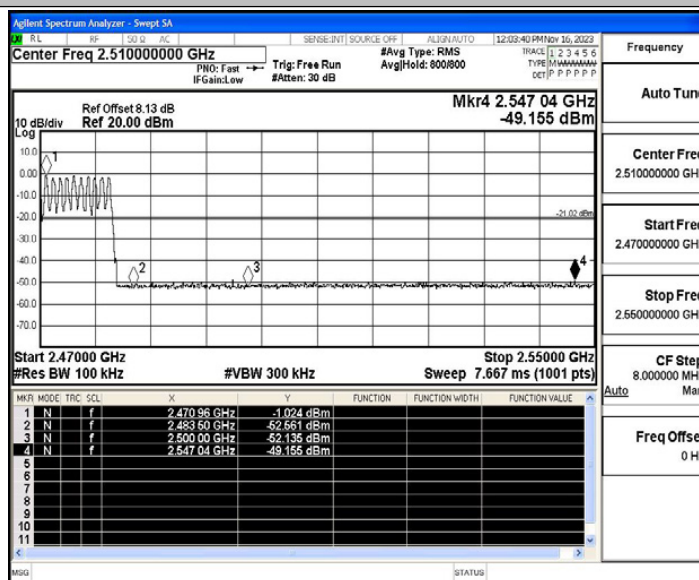
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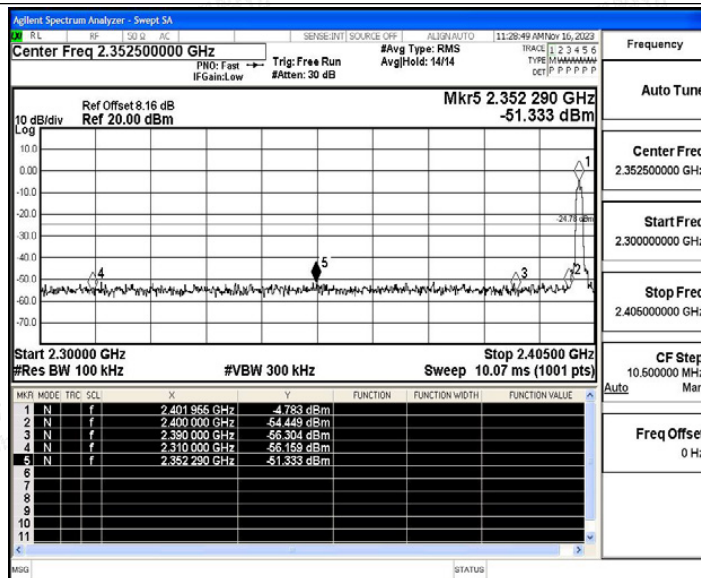


DH5_Ant1_High_Hop_2480

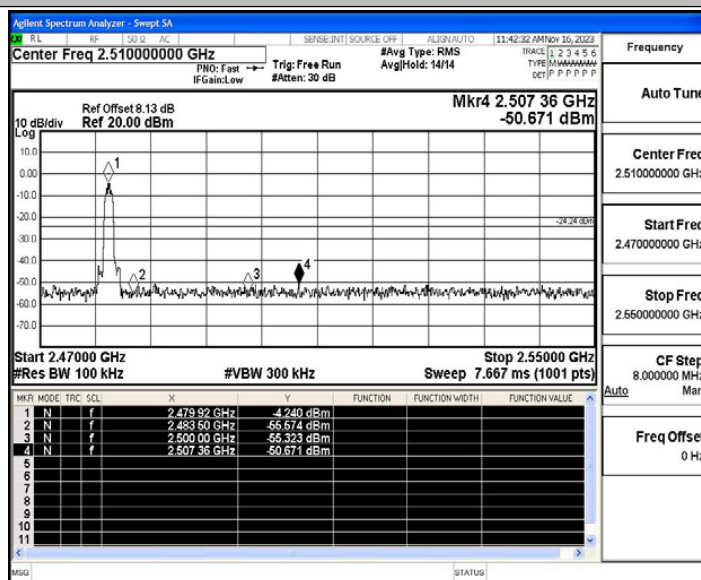


2DH5_Ant1_Low_2402





2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

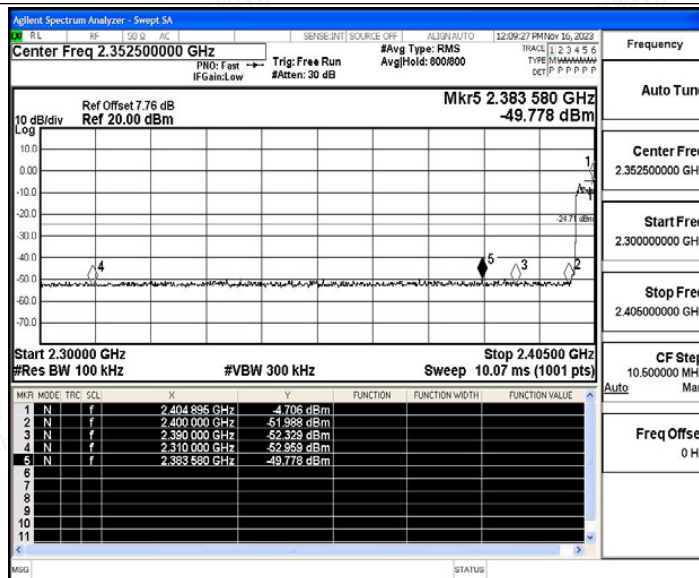


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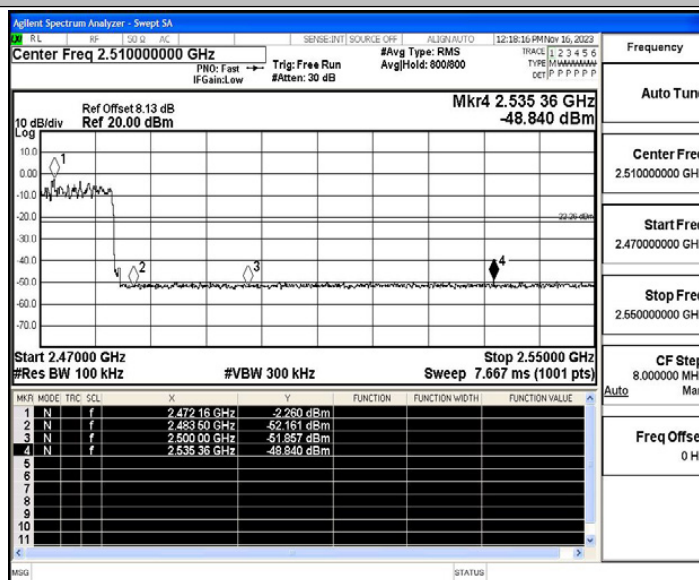
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

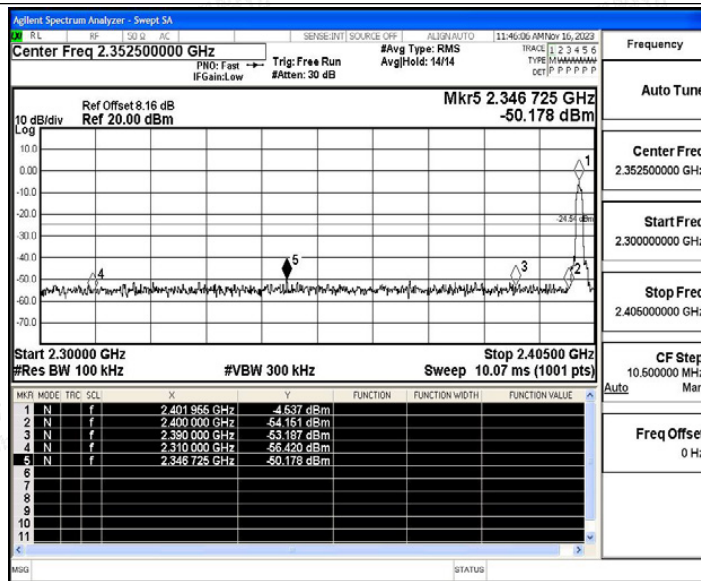


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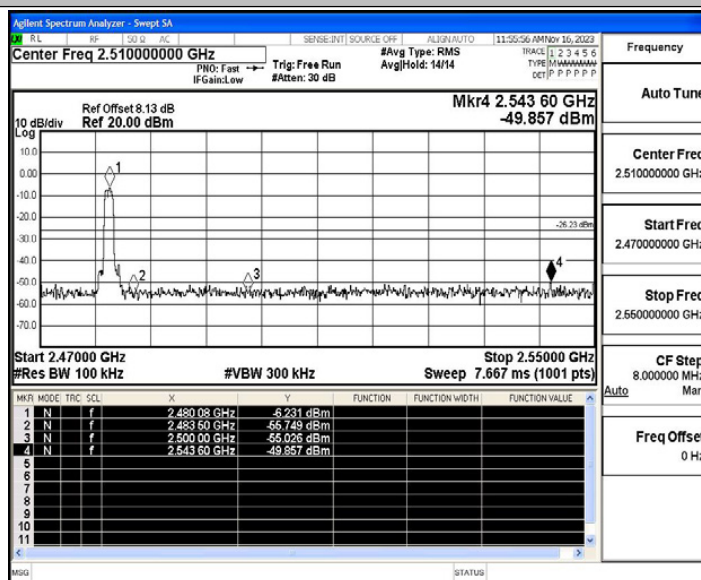
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

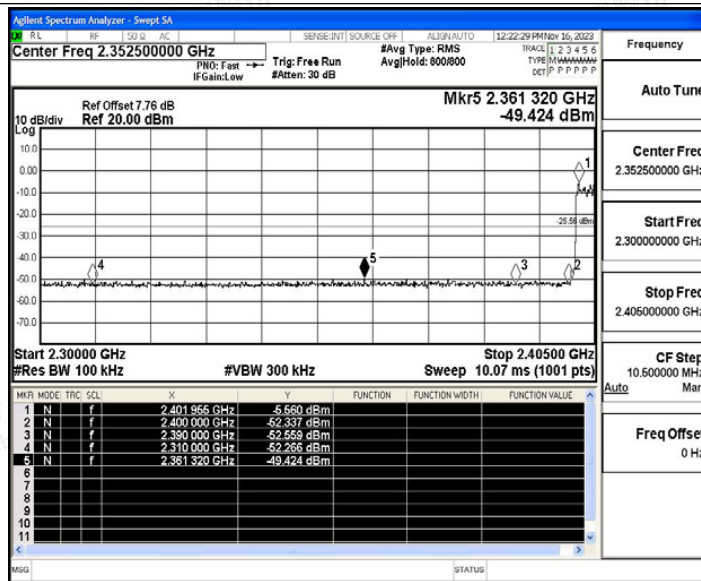


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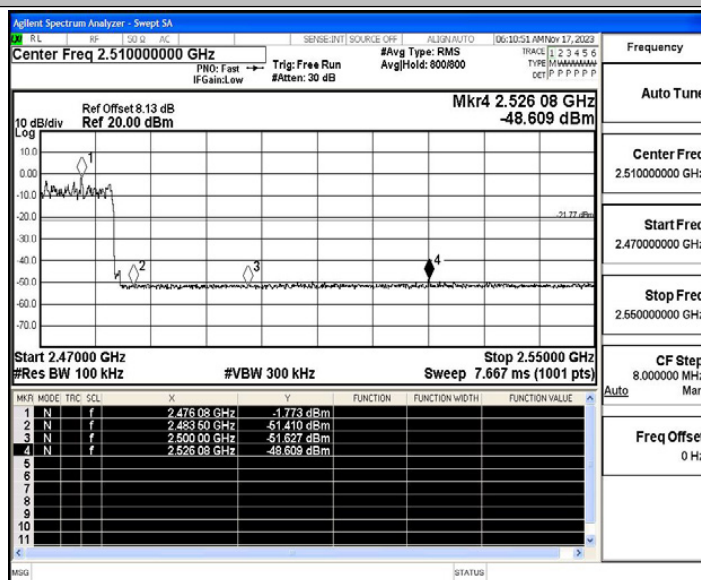
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

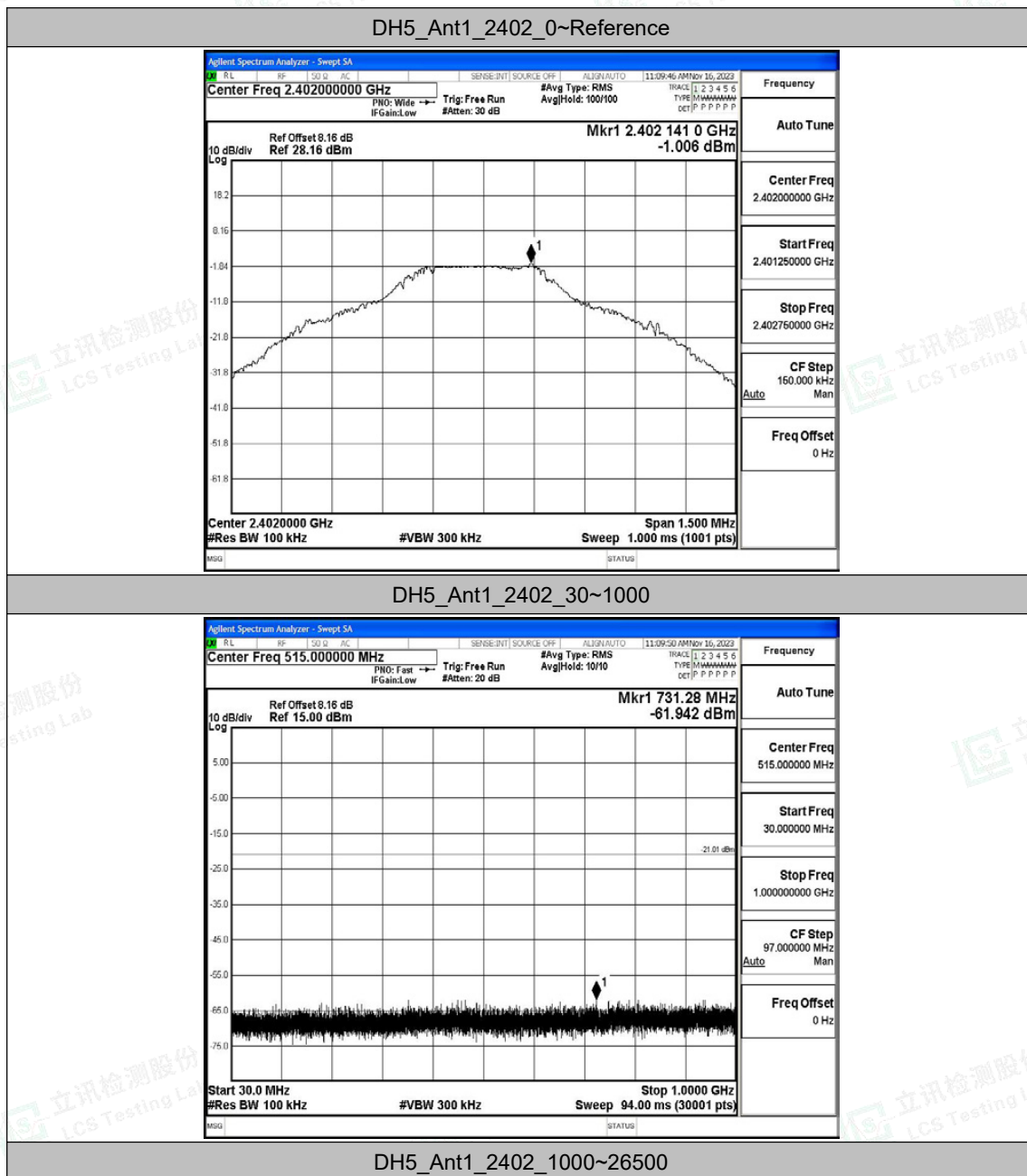
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-61.94	≤-21.01	PASS
			1000~26500	-1.01	-49.2	≤-21.01	PASS
		2441	Reference	-1.28	-1.28	---	PASS
			30~1000	-1.28	-60.63	≤-21.28	PASS
			1000~26500	-1.28	-48.93	≤-21.28	PASS
		2480	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-61.37	≤-21.17	PASS
			1000~26500	-1.17	-49.31	≤-21.17	PASS
2DH5	Ant1	2402	Reference	-2.32	-2.32	---	PASS
			30~1000	-2.32	-61.4	≤-22.32	PASS
			1000~26500	-2.32	-49.34	≤-22.32	PASS
		2441	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-61.47	≤-22.46	PASS
			1000~26500	-2.46	-49.3	≤-22.46	PASS
		2480	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-61.78	≤-23.21	PASS
			1000~26500	-3.21	-49.01	≤-23.21	PASS
3DH5	Ant1	2402	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-61.19	≤-22.23	PASS
			1000~26500	-2.23	-48.64	≤-22.23	PASS
		2441	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-61.64	≤-22.02	PASS
			1000~26500	-2.02	-49	≤-22.02	PASS
		2480	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-62.1	≤-21.99	PASS
			1000~26500	-1.99	-48.74	≤-21.99	PASS





Test Graphs

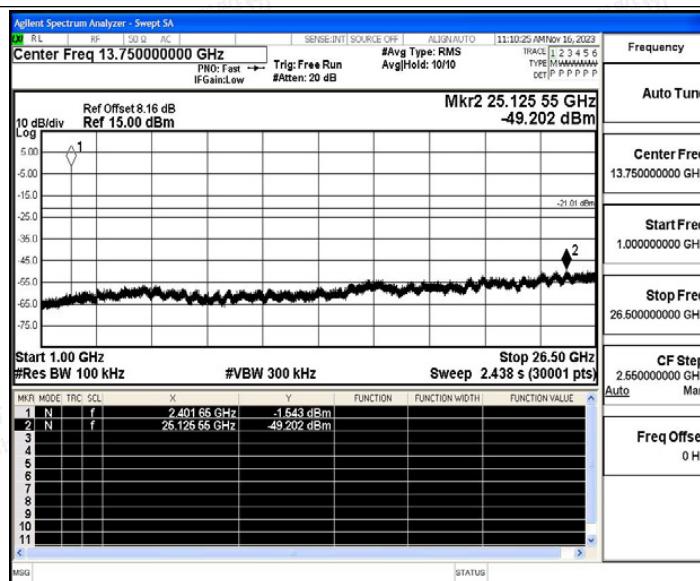


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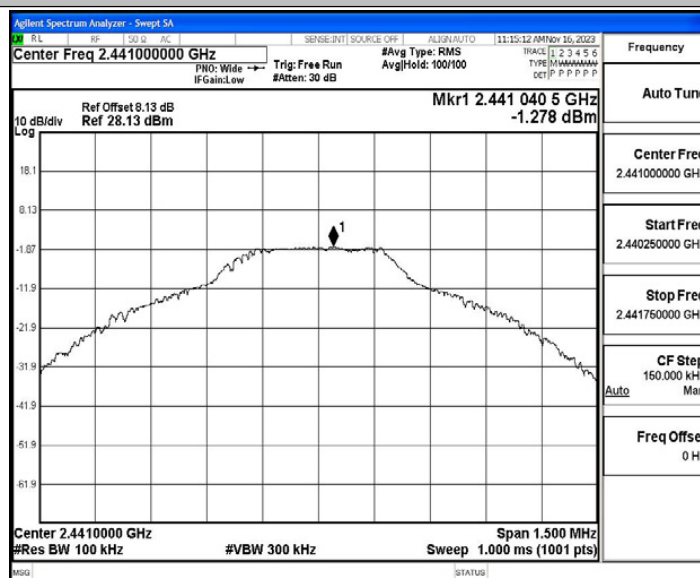
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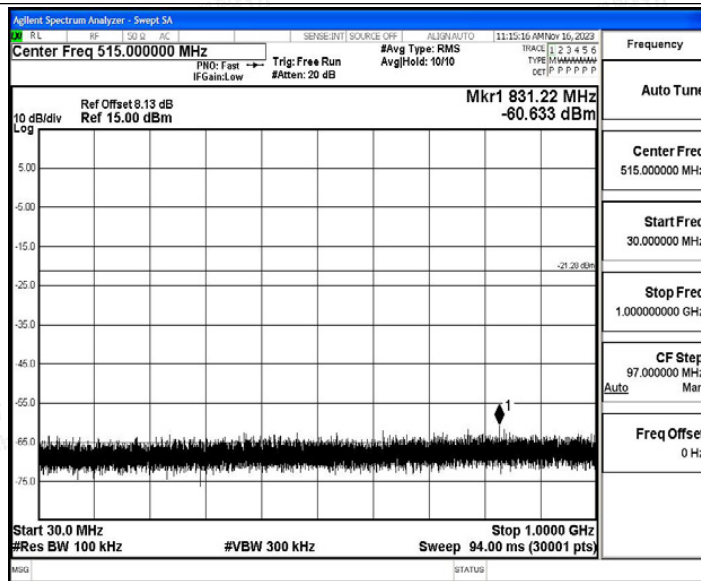


DH5 Ant1 2441 0~Reference

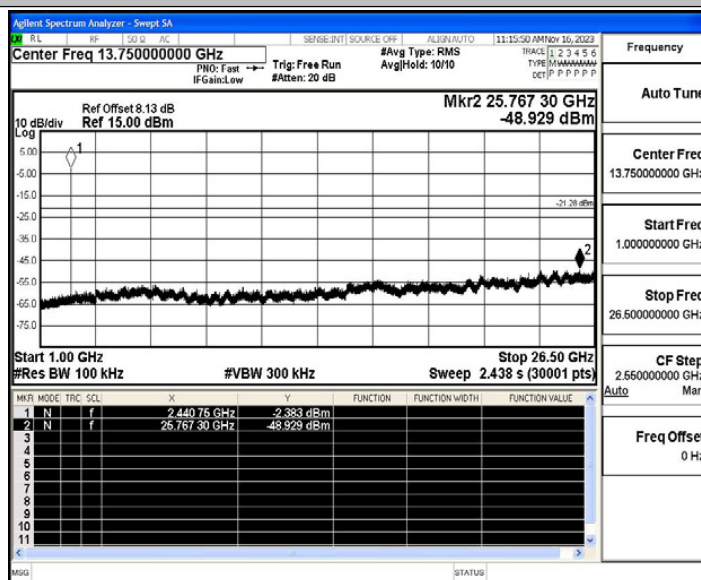


DH5 Ant1 2441 30~1000



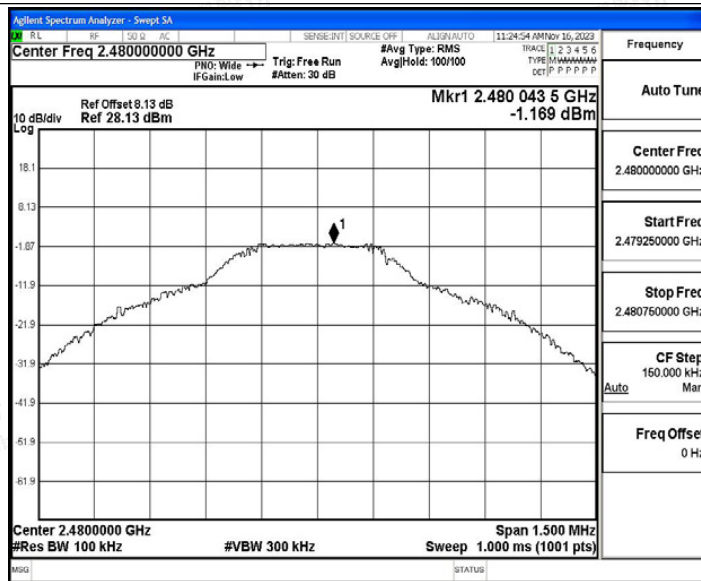


DH5_Ant1_2441_1000~26500

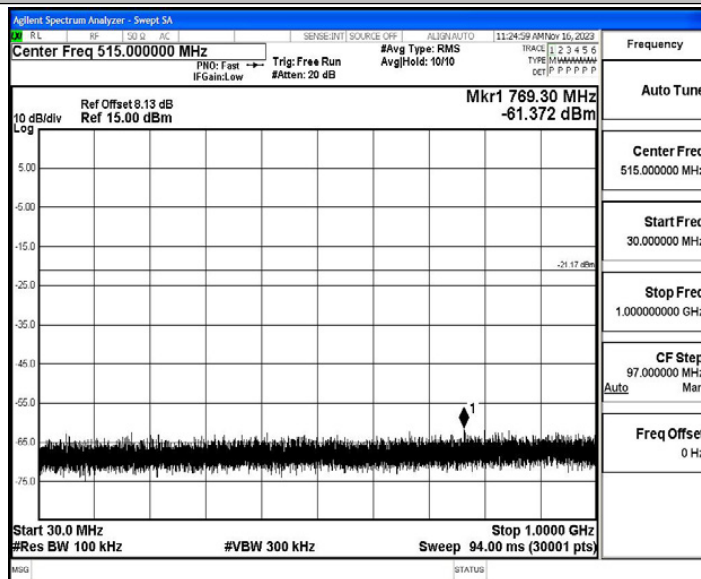


DH5_Ant1_2480_0~Reference



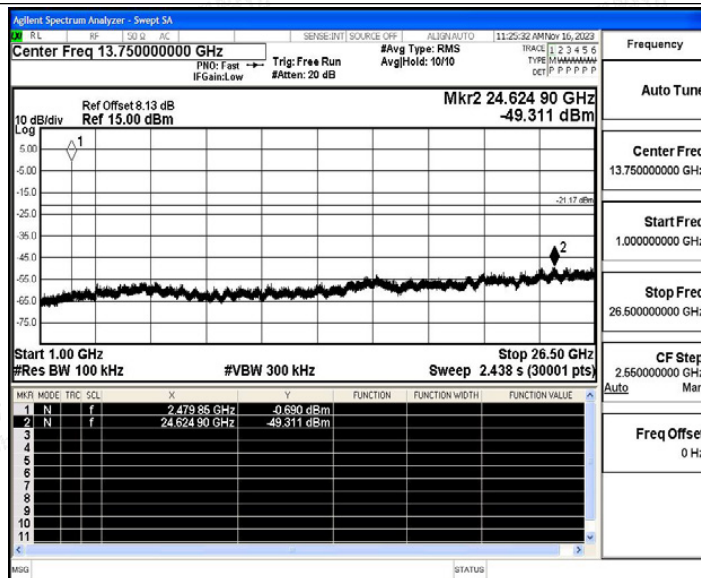


DH5_Ant1_2480_30~1000

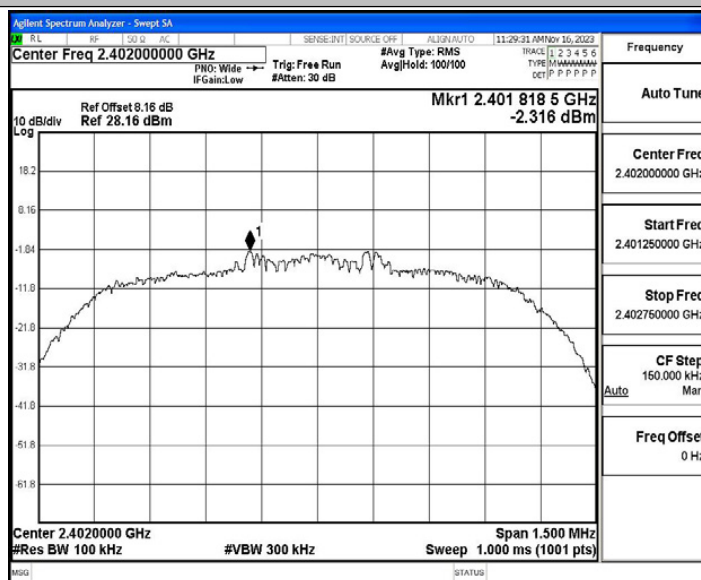


DH5_Ant1_2480_1000~26500





2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

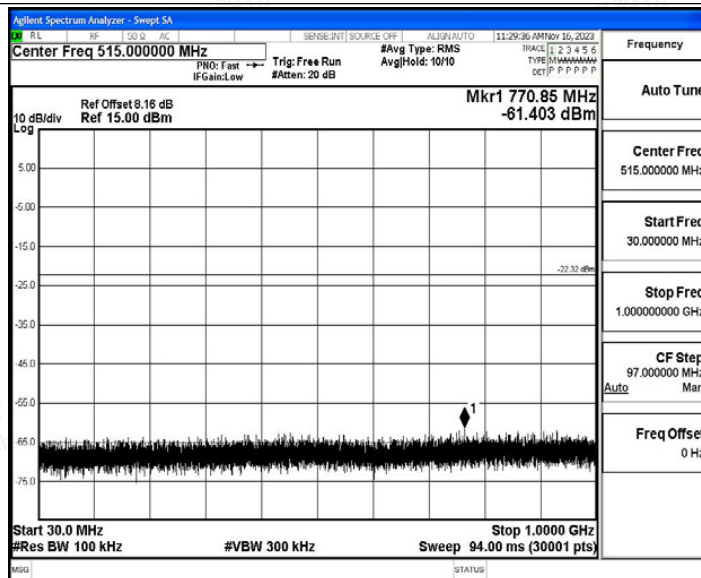


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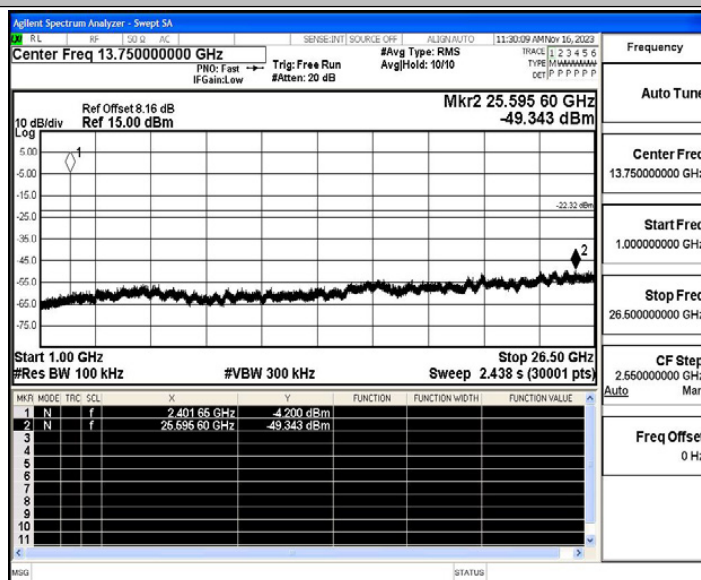
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

