

Appendix Test Data

Report No.:	18220WC20036803	Test Sample No.:	1-2-2
Start Test Date:	2022.2.25	Finish Test Date:	2022.2.28
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.538	2402.483	---	PASS
		2441	0.951	2440.535	2441.486	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.320	2401.337	2402.657	---	PASS
		2441	1.332	2440.334	2441.666	---	PASS
		2480	1.266	2479.367	2480.633	---	PASS

Test Graphs


DH5_Ant1_2441
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441

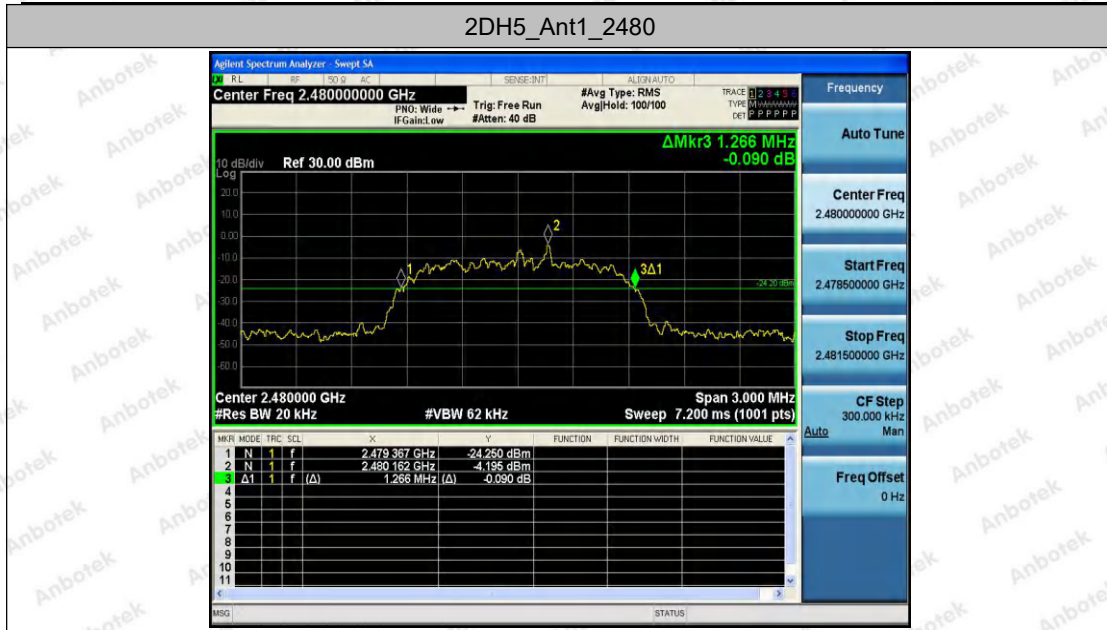


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Appendix B: Occupied Channel Bandwidth

Test Result

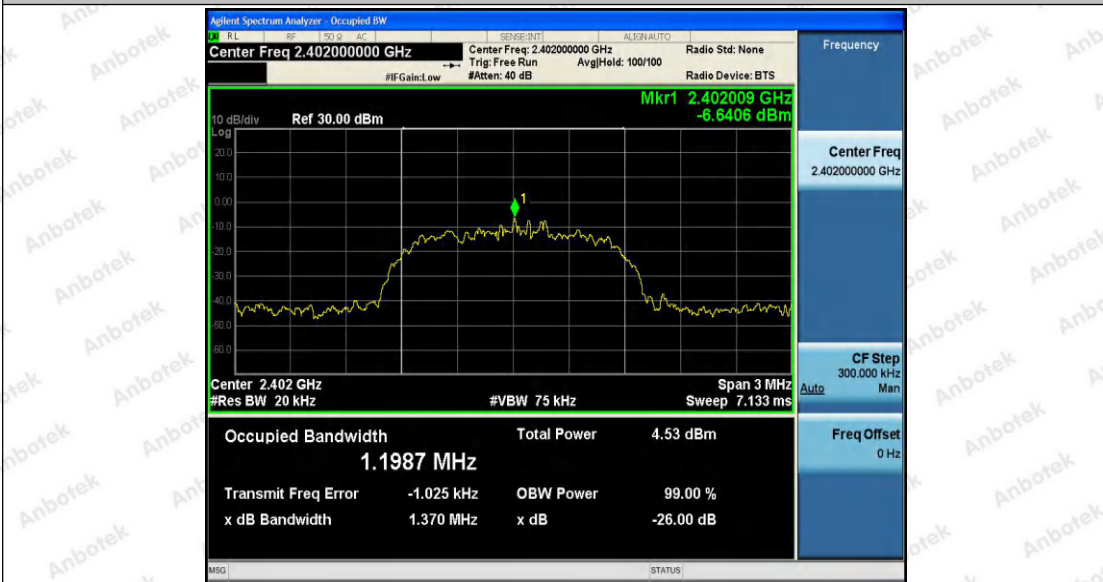
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89203	2401.55 3	2402.445	---	PASS
		2441	0.88798	2440.55 4	2441.442	---	PASS
		2480	0.90258	2479.54 9	2480.451	---	PASS
2DH5	Ant1	2402	1.1987	2401.40 0	2402.598	---	PASS
		2441	1.2055	2440.39 7	2441.602	---	PASS
		2480	1.1902	2479.40 3	2480.593	---	PASS

Test Graphs

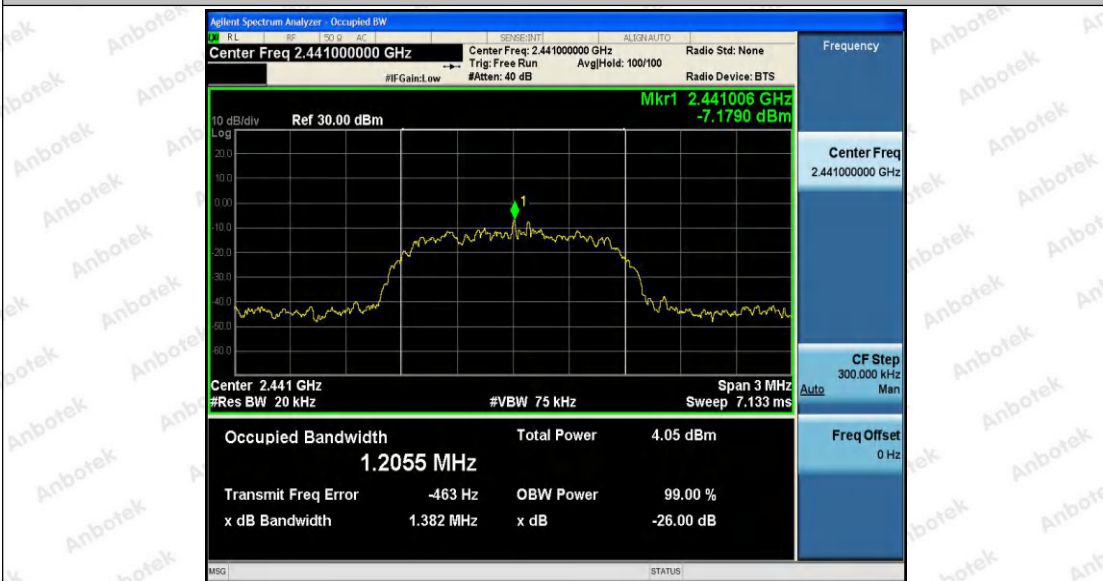




2DH5_Ant1_2402



2DH5_Ant1_2441

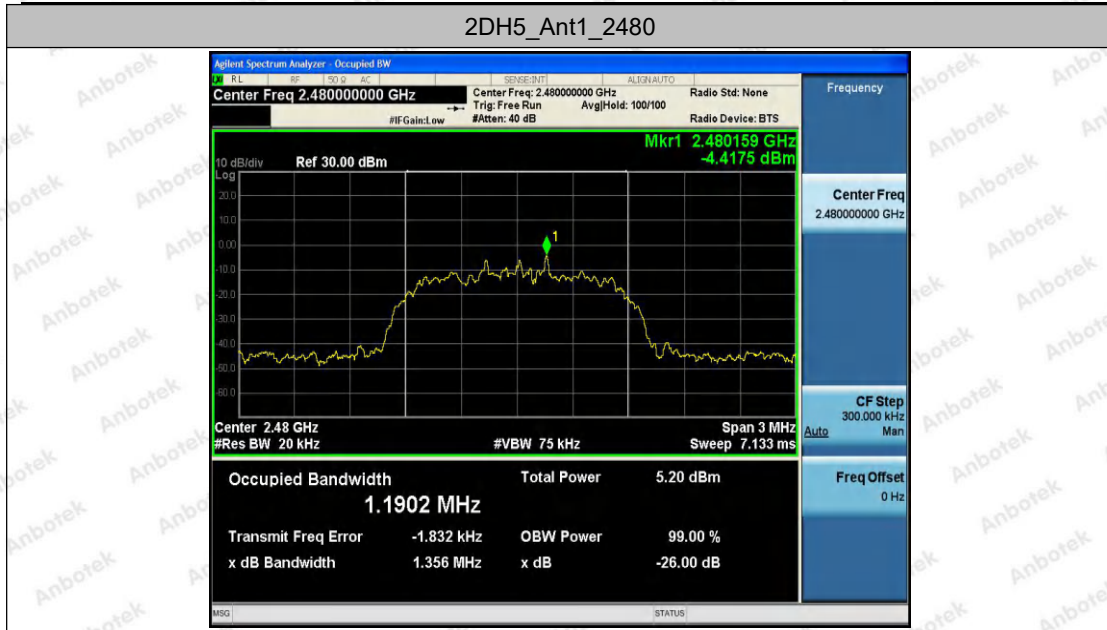


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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.29	≤20.97	PASS
		2441	-0.46	≤20.97	PASS
		2480	0.56	≤20.97	PASS
2DH5	Ant1	2402	-0.75	≤20.97	PASS
		2441	-0.84	≤20.97	PASS
		2480	-0.08	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

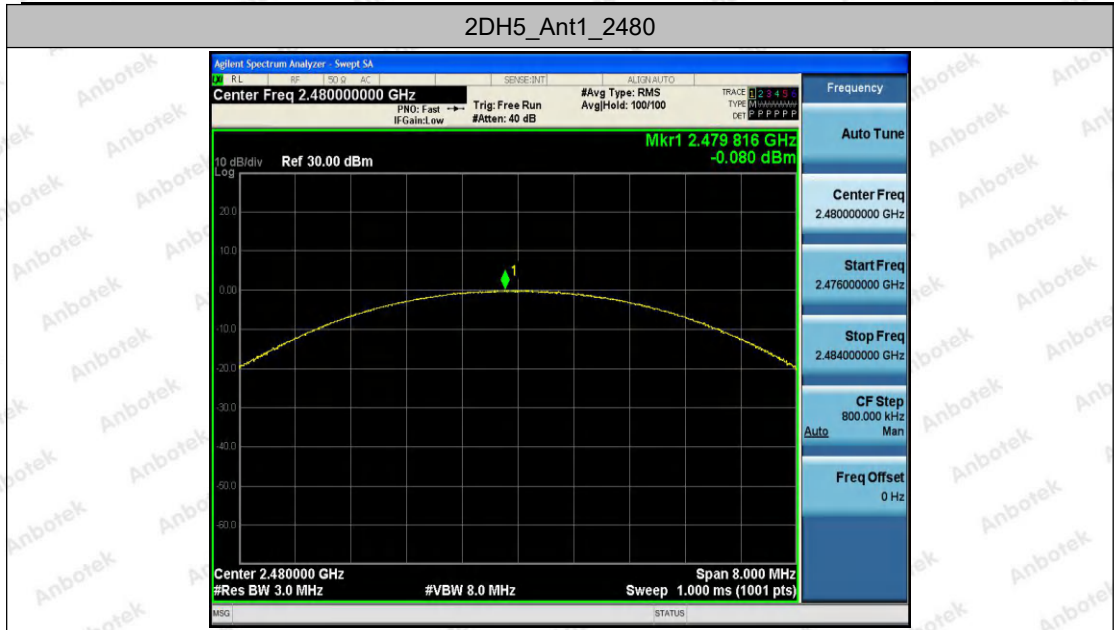


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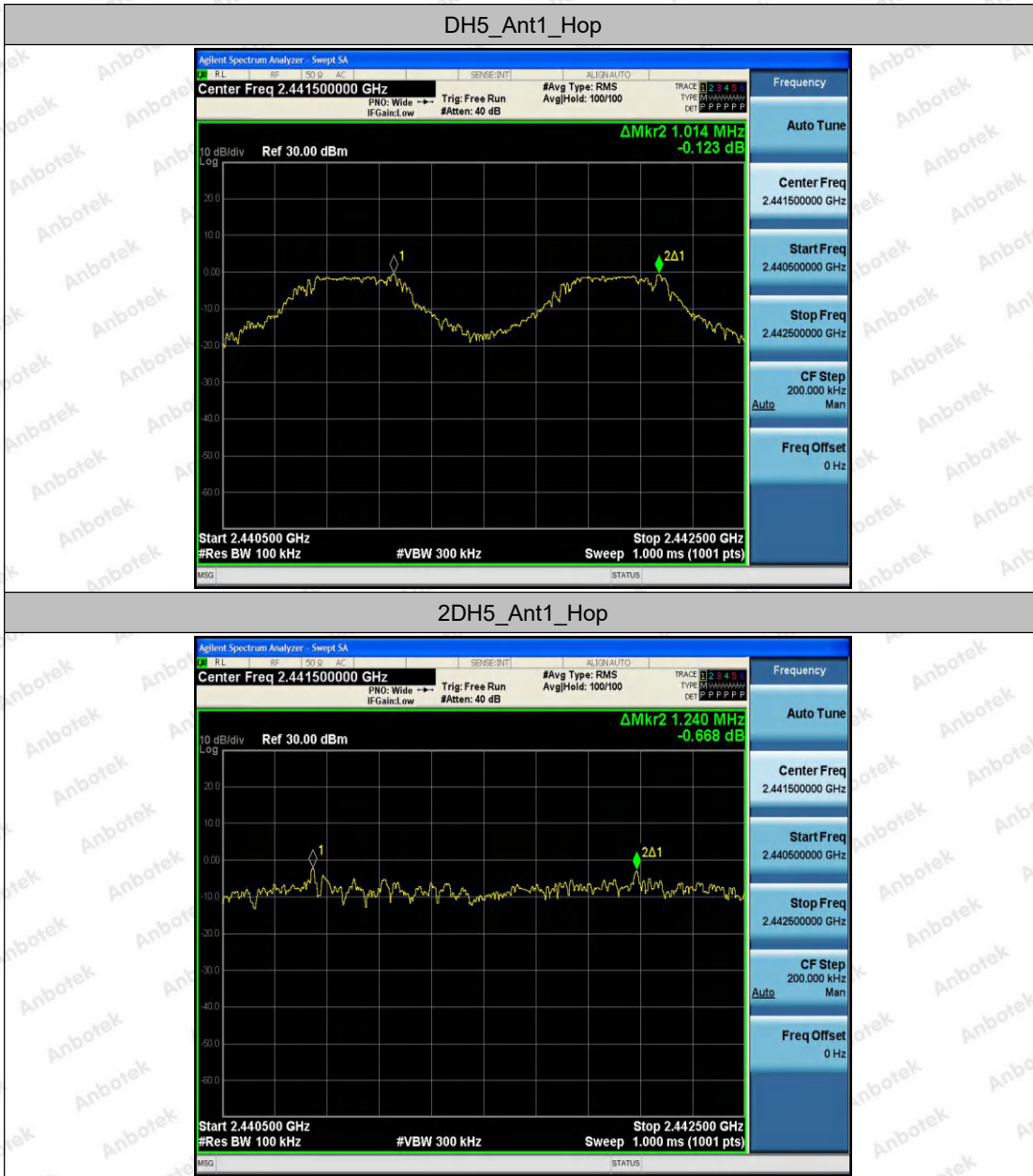
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.014	≥0.951	PASS
2DH5	Ant1	Hop	1.24	≥0.888	PASS

Test Graphs



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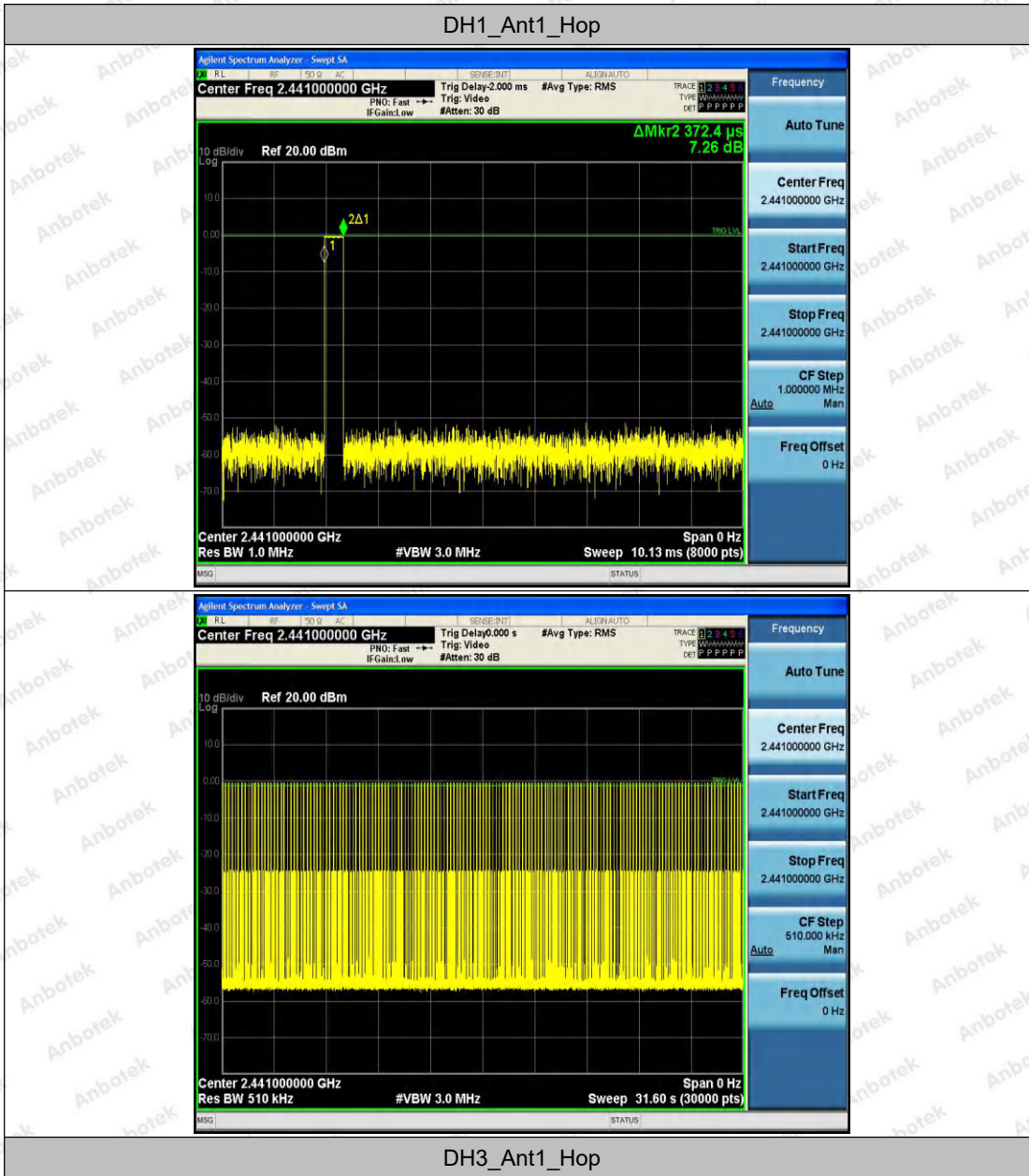
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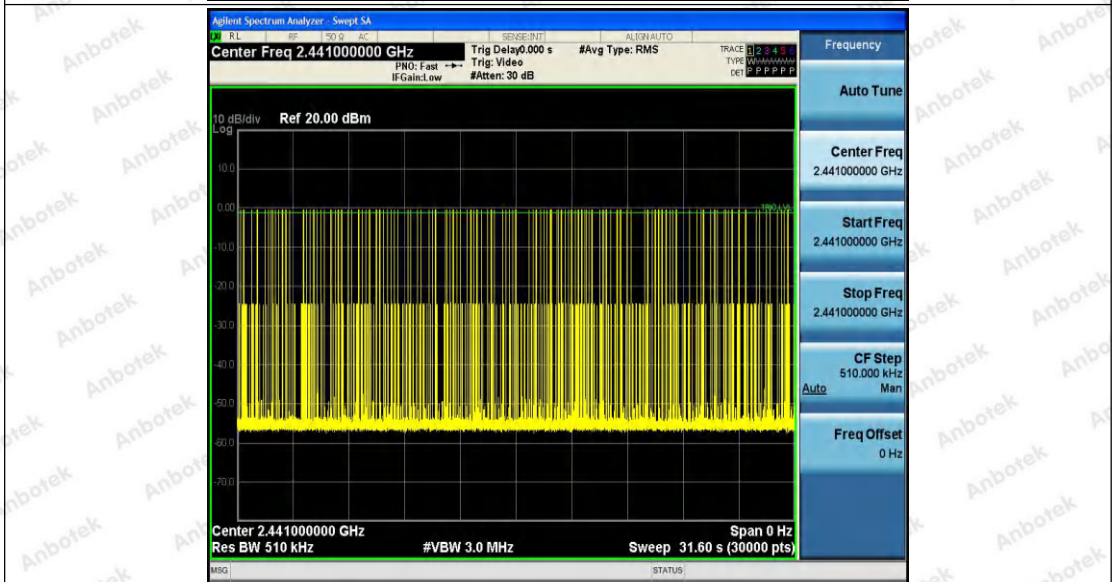
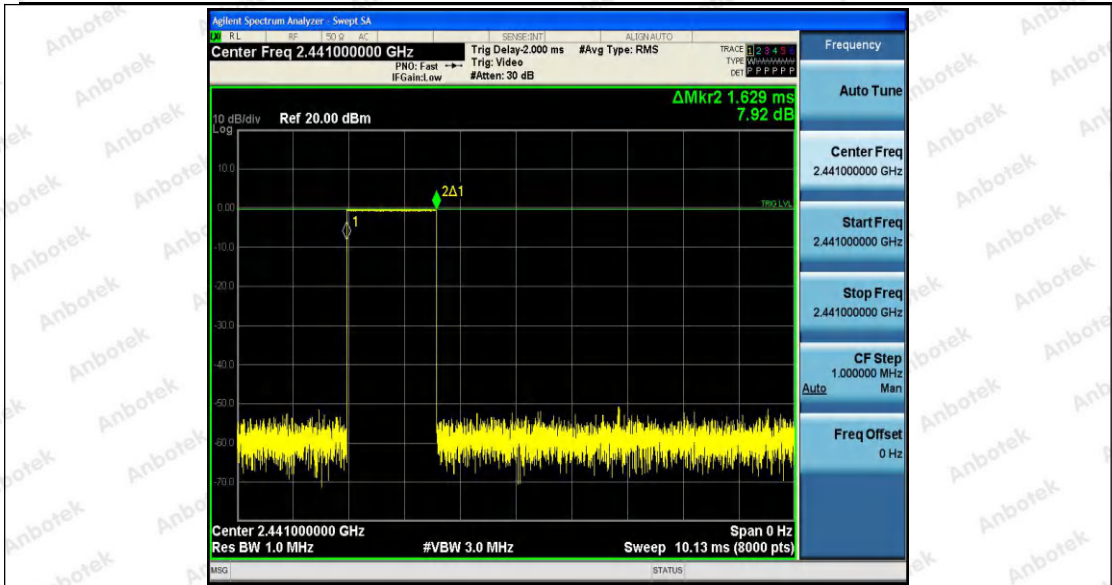
Appendix E: Time of occupancy

Test Result

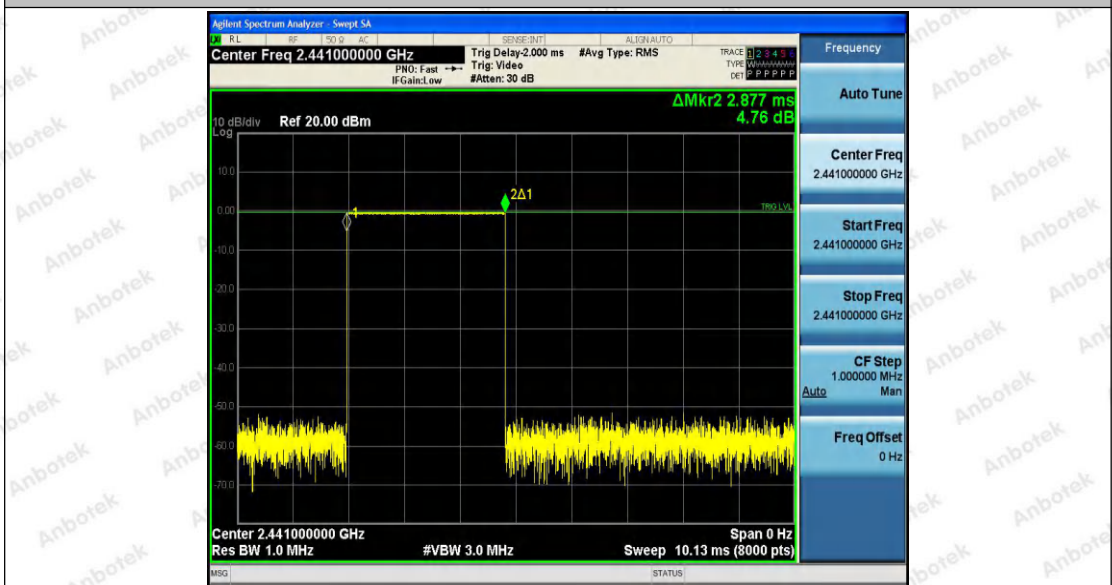
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS

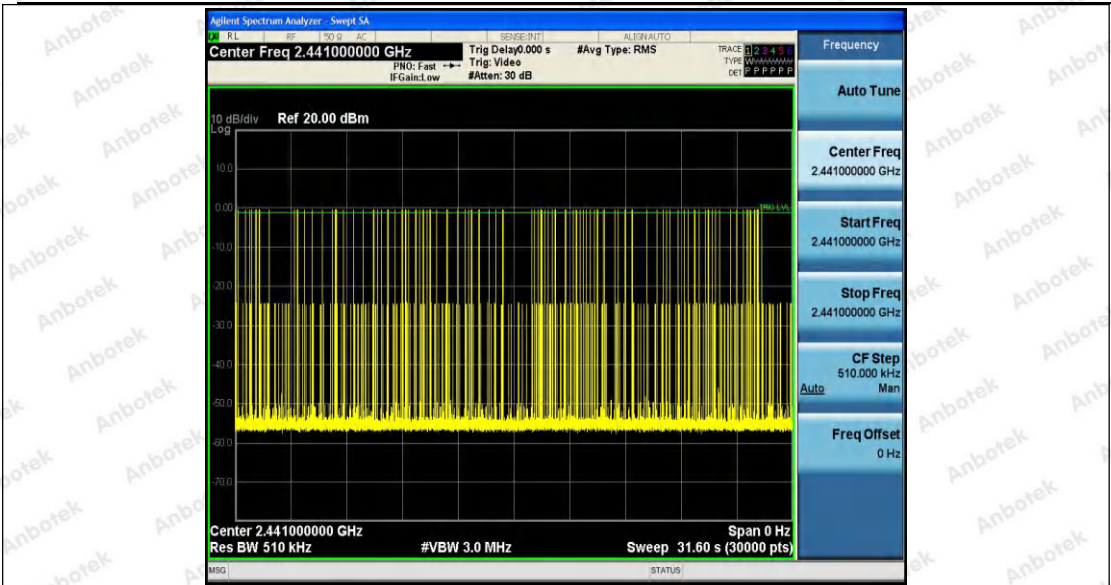
Test Graphs


DH3_Ant1_Hop

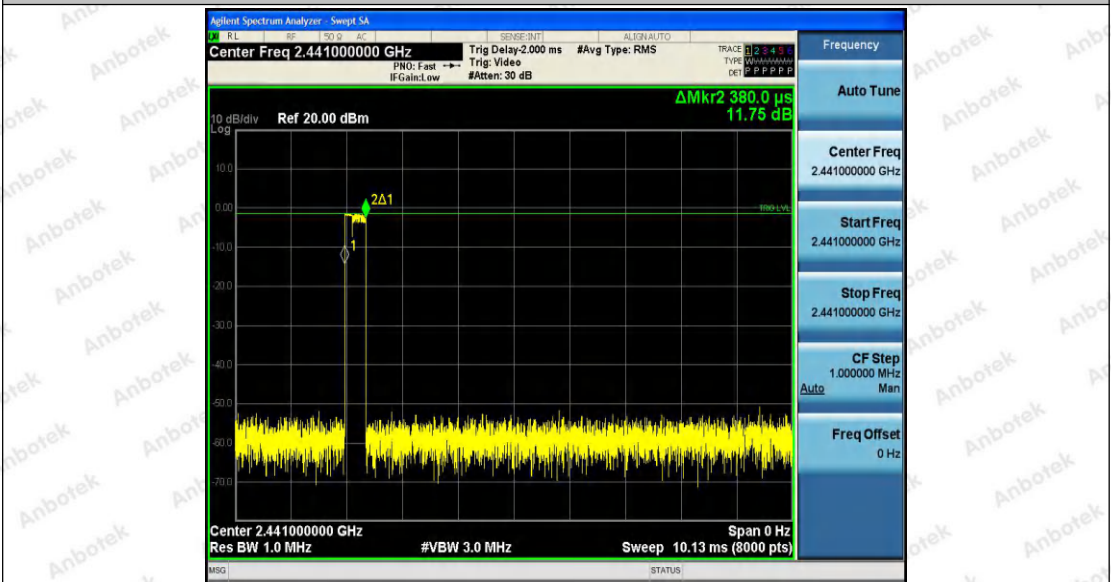


DH5_Ant1_Hop

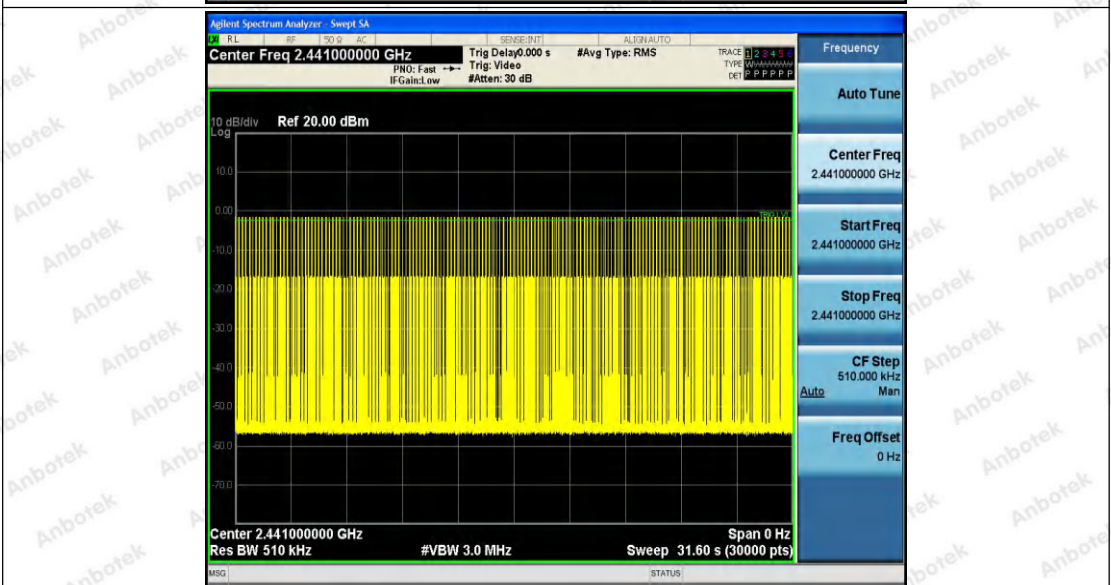




2DH1_Ant1_Hop



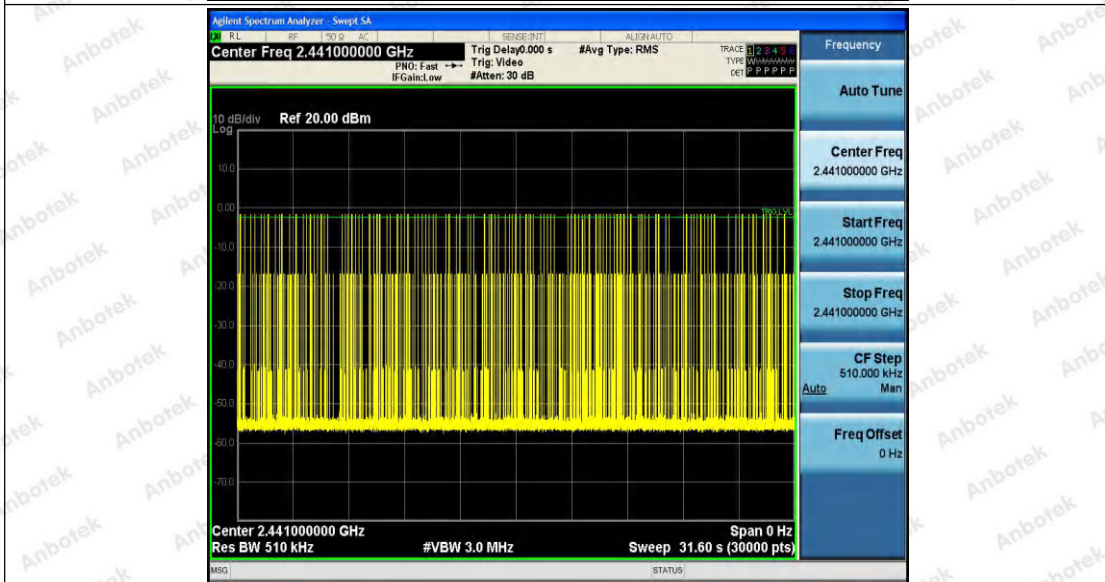
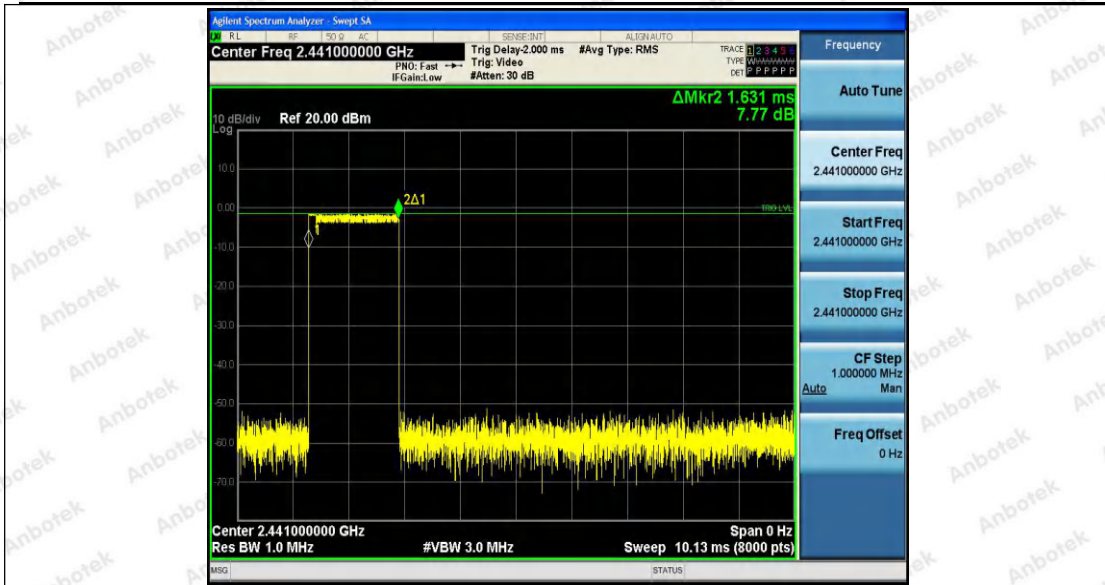
2DH3_Ant1_Hop



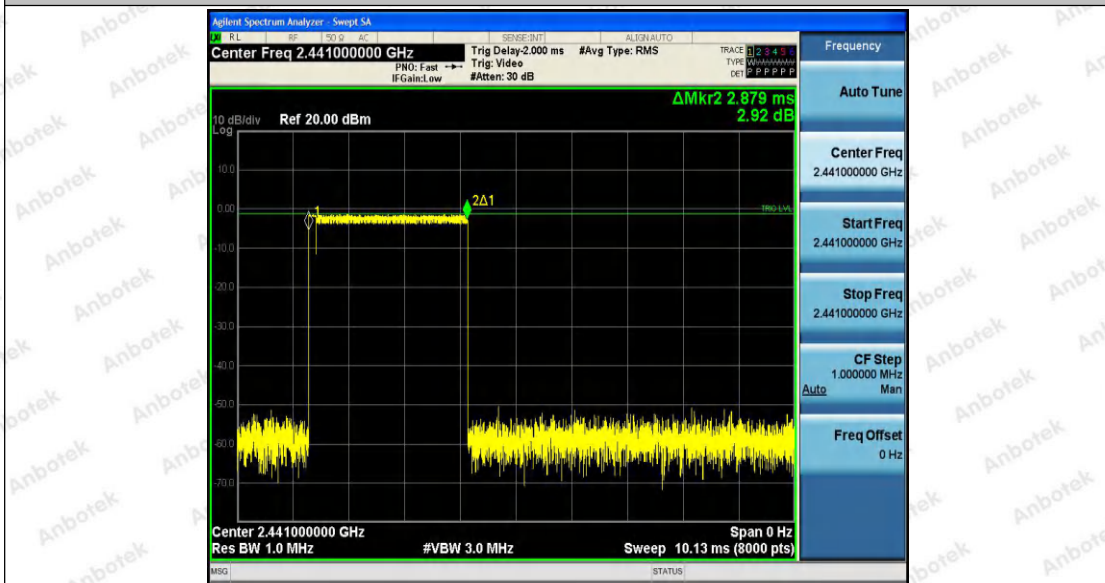
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2DH5_Ant1_Hop

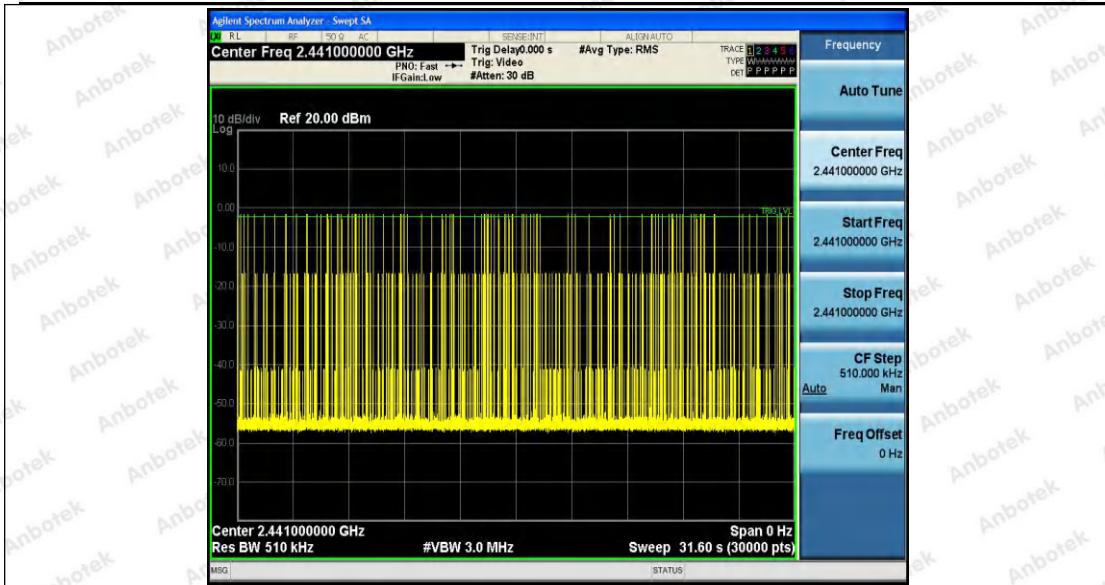


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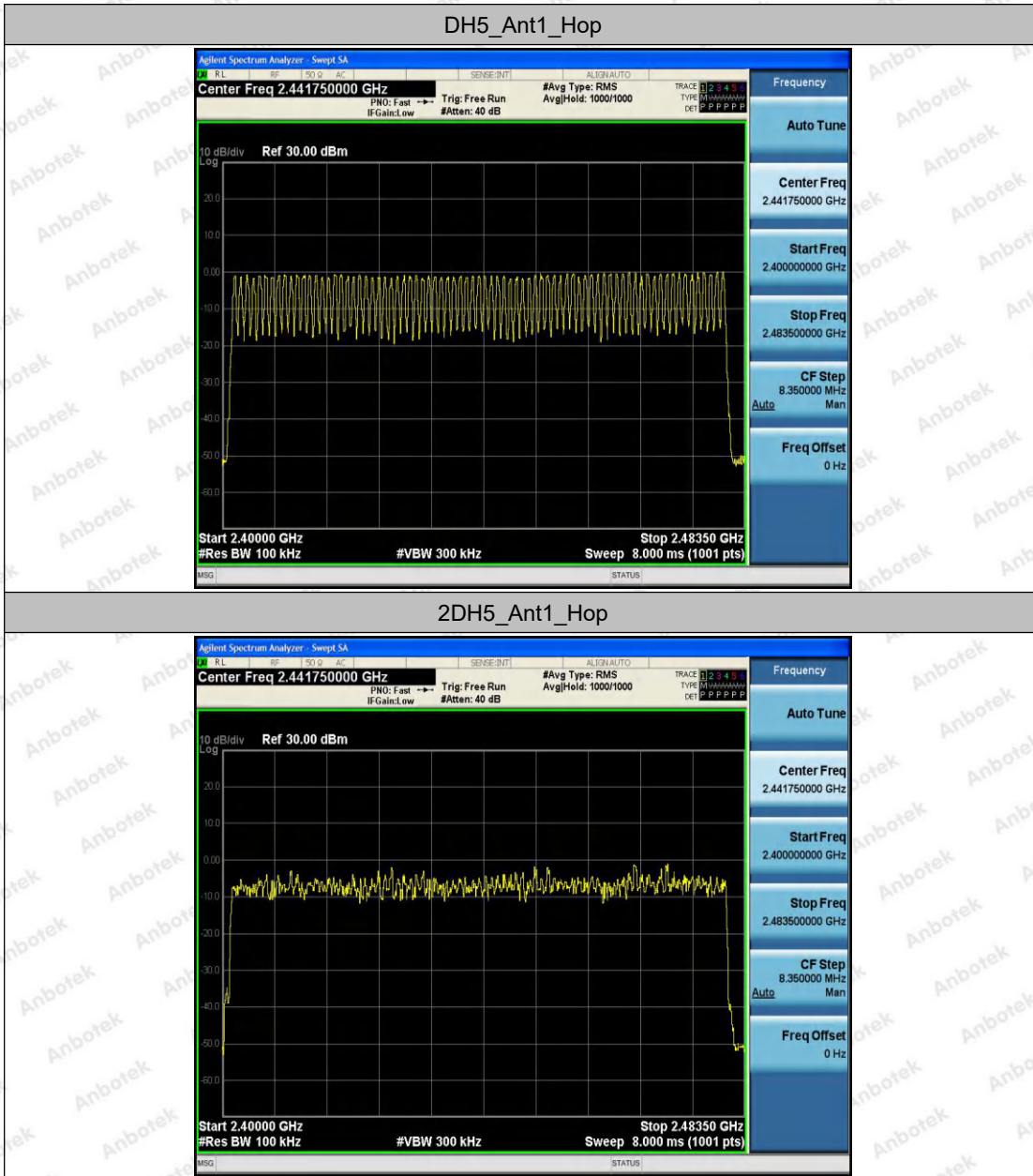
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Appendix F: Number of hopping channels

Test Result

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

Test Graphs



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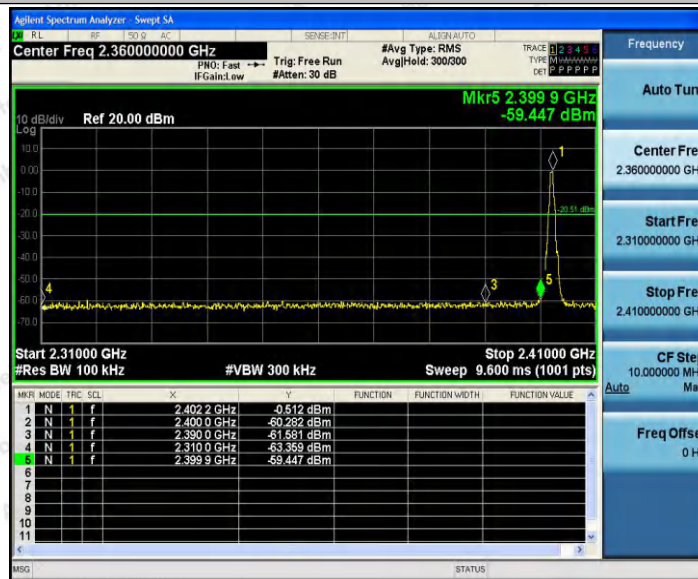
Appendix G: Band edge measurements

Test Result

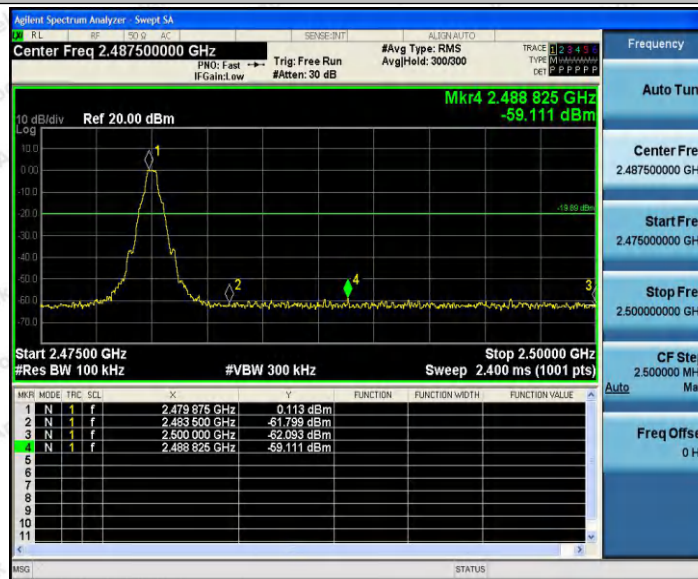
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.51	-59.45	≤-20.51	PASS
		High	2480	0.11	-59.11	≤-19.89	PASS
		Low	Hop	-0.65	-59.68	≤-20.65	PASS
		High	Hop	-0.34	-61.74	≤-20.34	PASS
2DH5	Ant1	Low	2402	-1.55	-56.07	≤-21.55	PASS
		High	2480	-1.26	-59.9	≤-21.26	PASS
		Low	Hop	-4.76	-58.81	≤-24.76	PASS
		High	Hop	-1.93	-61.57	≤-21.93	PASS

Test Graphs

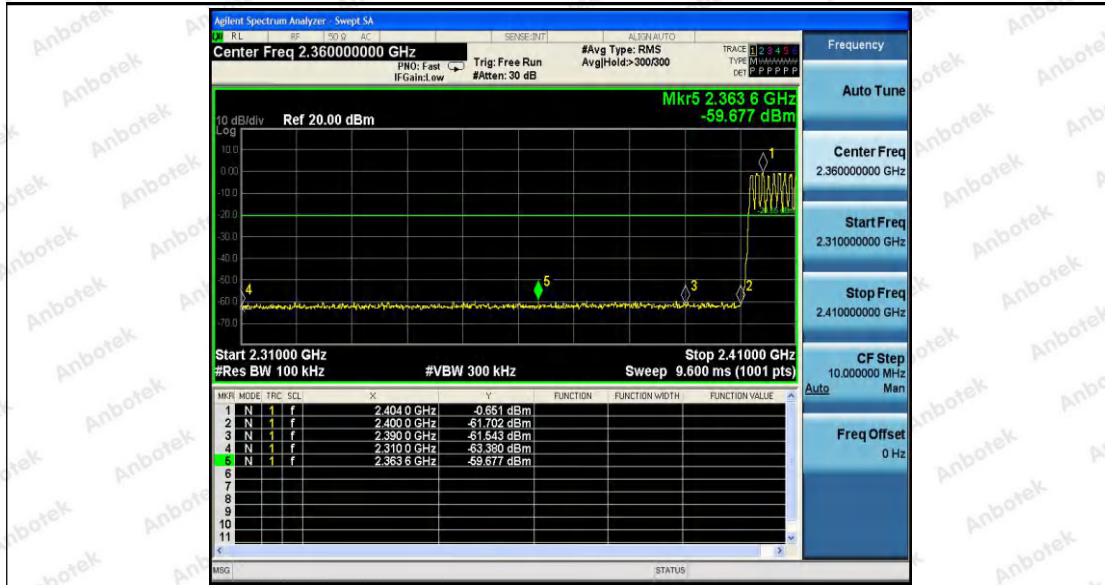
DH5_Ant1_Low_2402



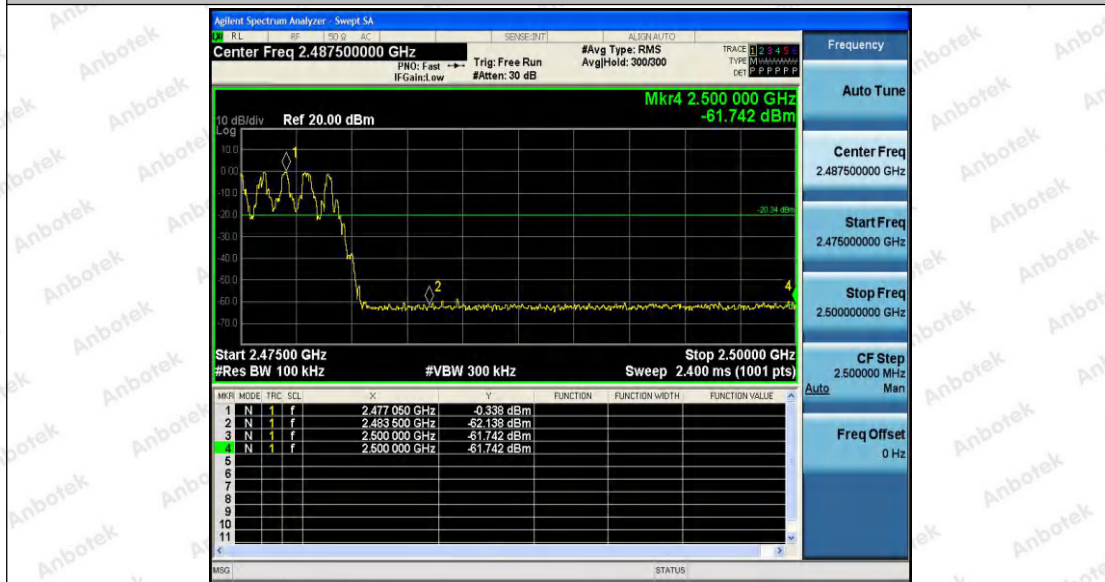
DH5_Ant1_High_2480



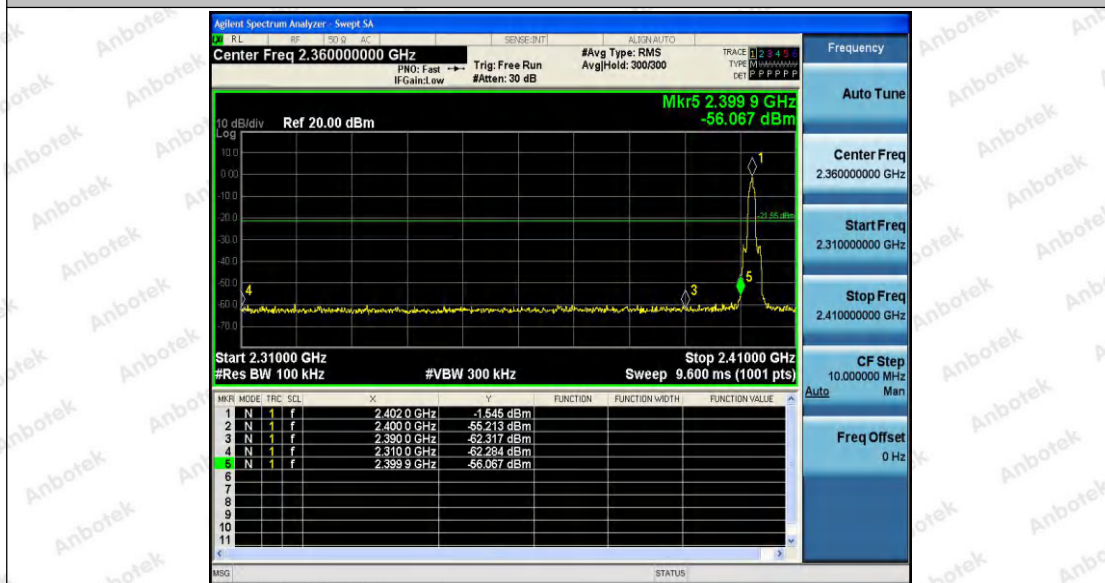
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

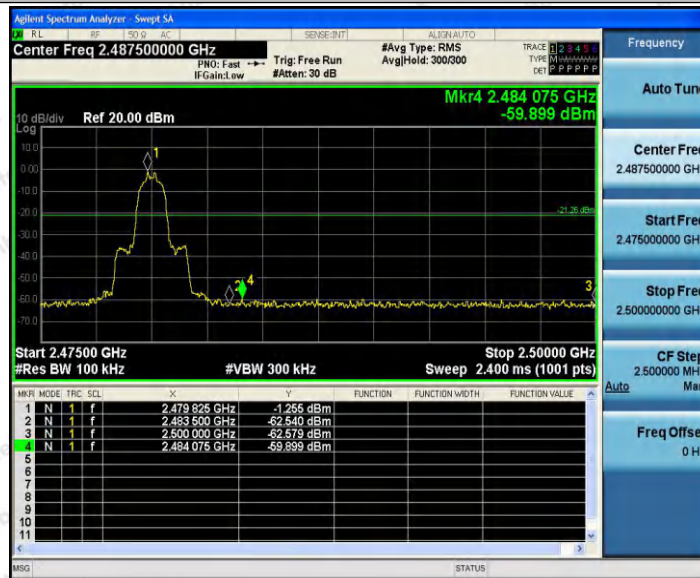


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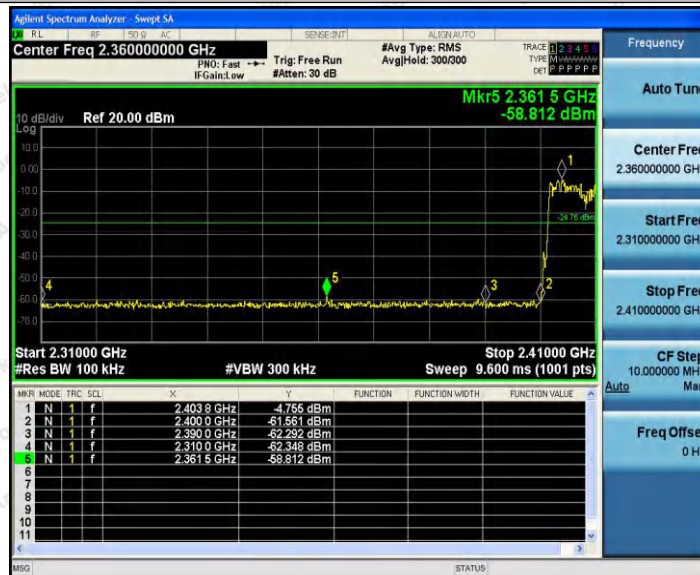
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



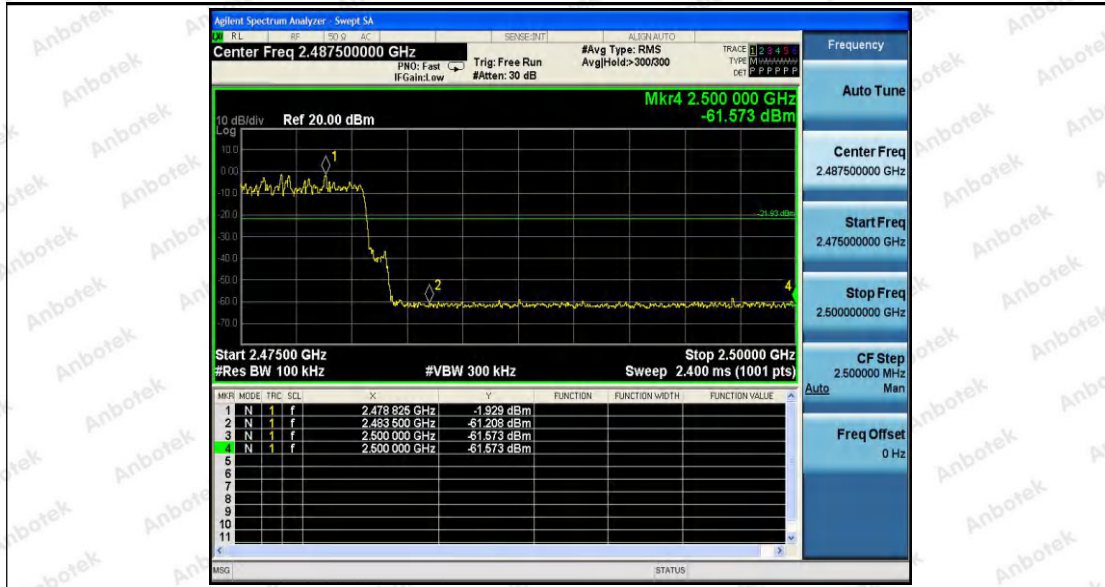
2DH5_Ant1_High_Hop

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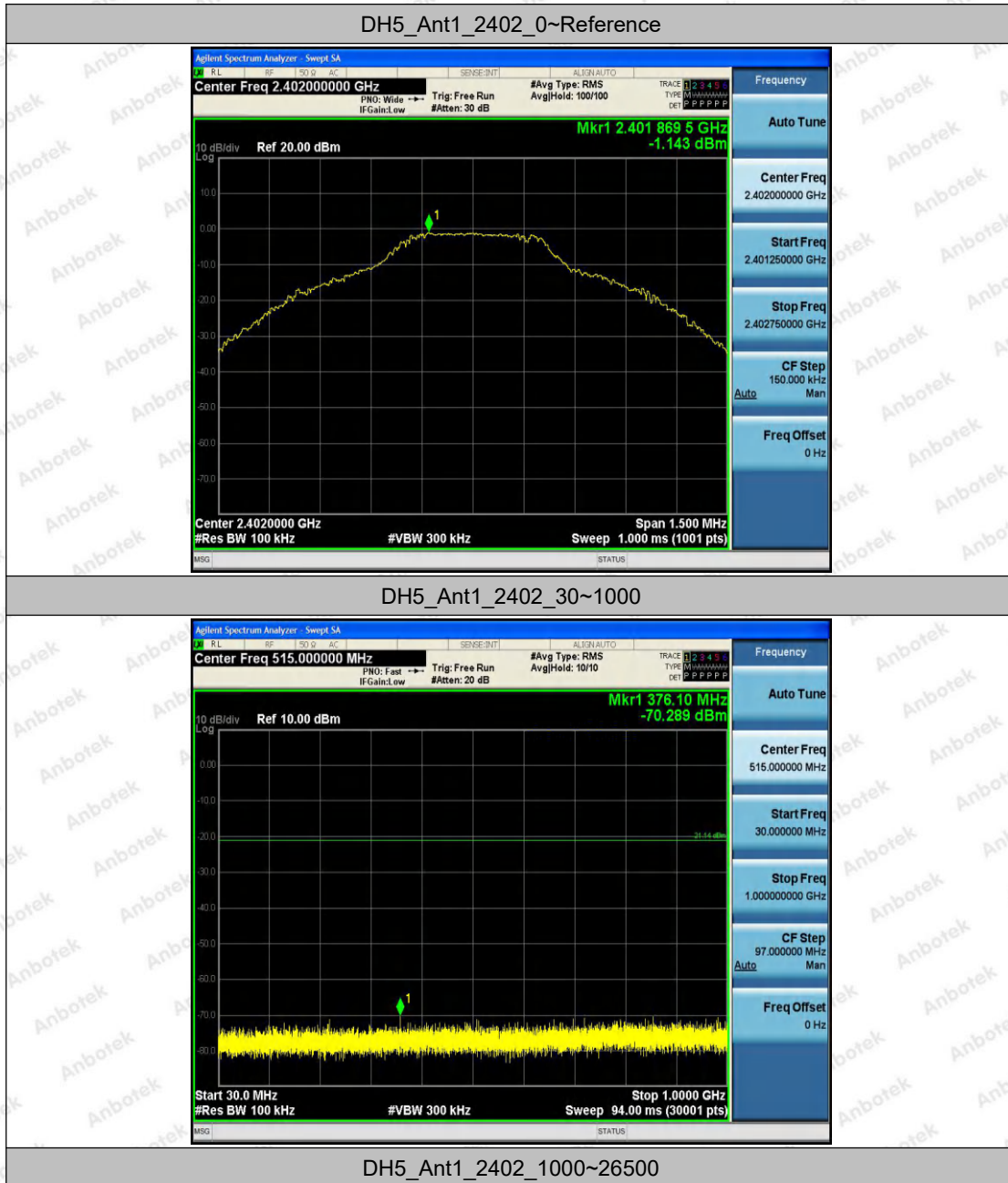
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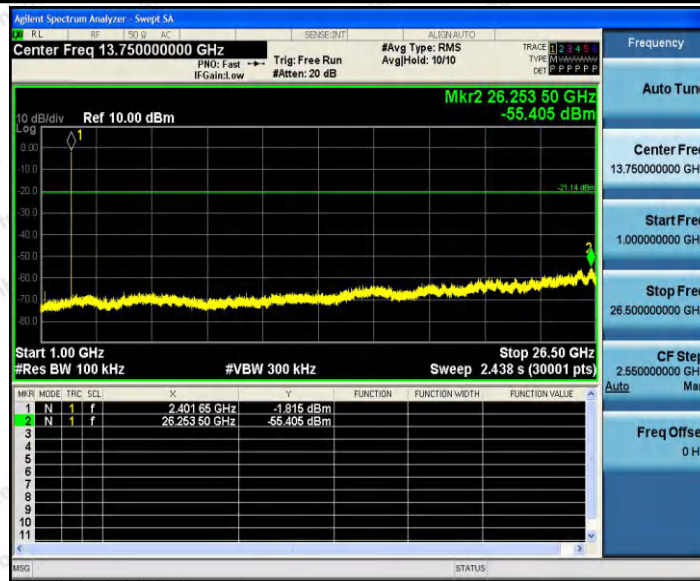
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-70.29	≤-21.14	PASS
			1000~26500	-1.14	-55.41	≤-21.14	PASS
		2441	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-70.7	≤-20.74	PASS
			1000~26500	-0.74	-55.74	≤-20.74	PASS
		2480	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-70.25	≤-19.77	PASS
			1000~26500	0.23	-55.09	≤-19.77	PASS
2DH5	Ant1	2402	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-70.43	≤-22.3	PASS
			1000~26500	-2.30	-55.99	≤-22.3	PASS
		2441	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-70.62	≤-22.14	PASS
			1000~26500	-2.14	-55.82	≤-22.14	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-70.17	≤-21.11	PASS
			1000~26500	-1.11	-55.04	≤-21.11	PASS

Test Graphs

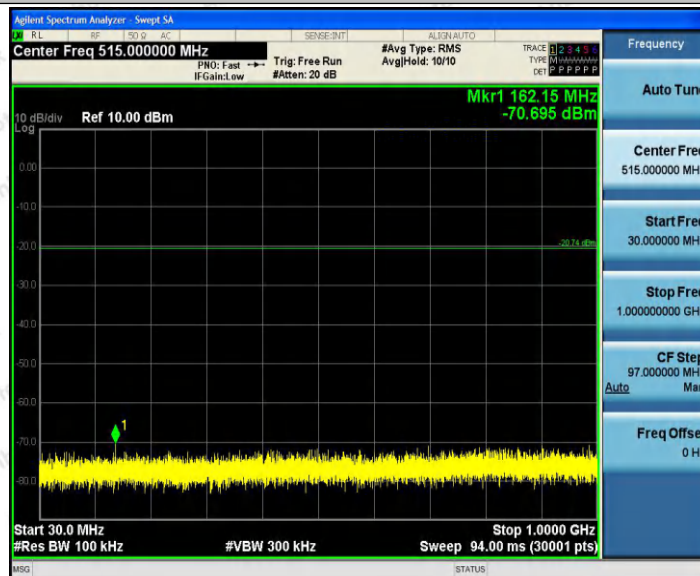




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

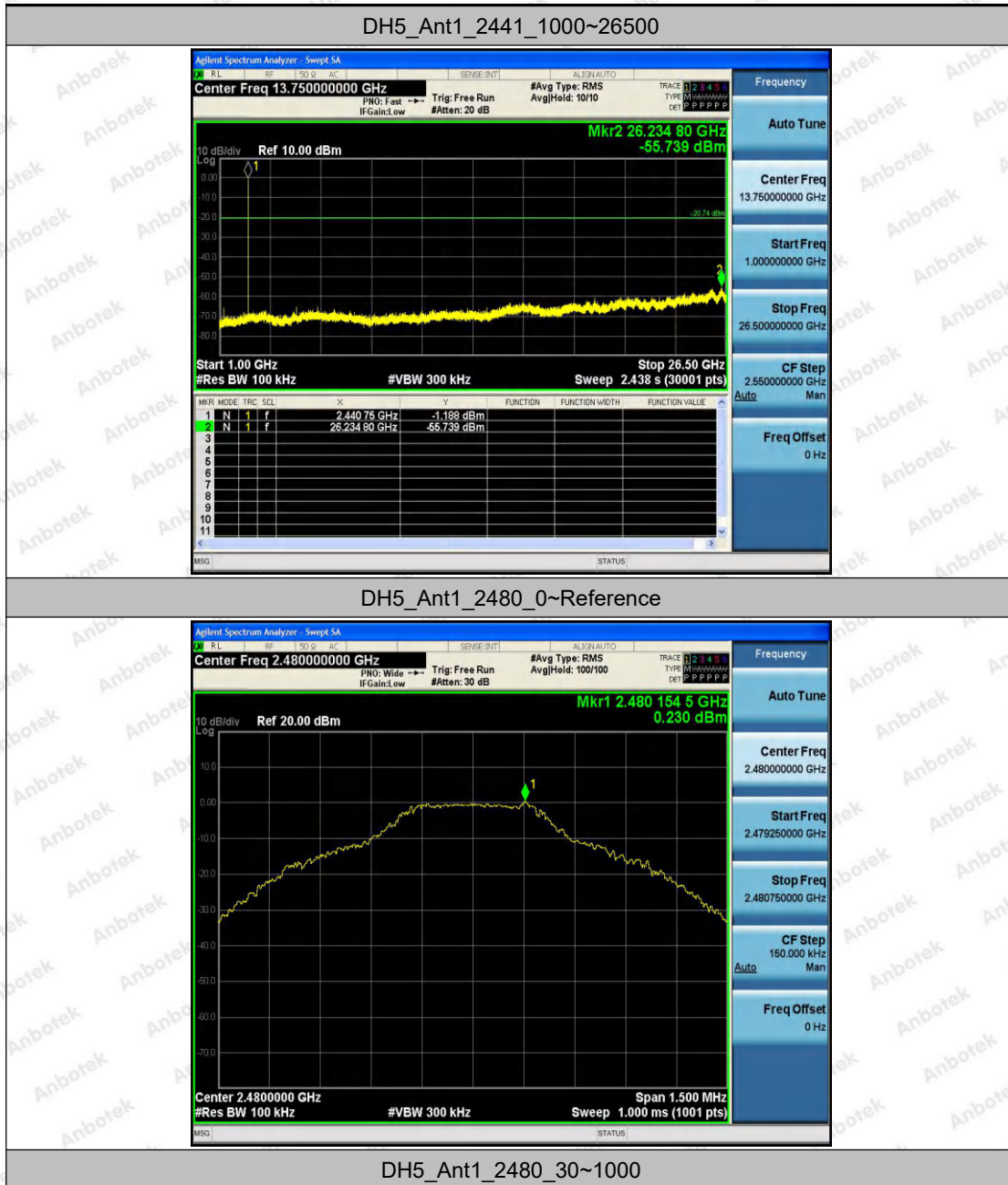


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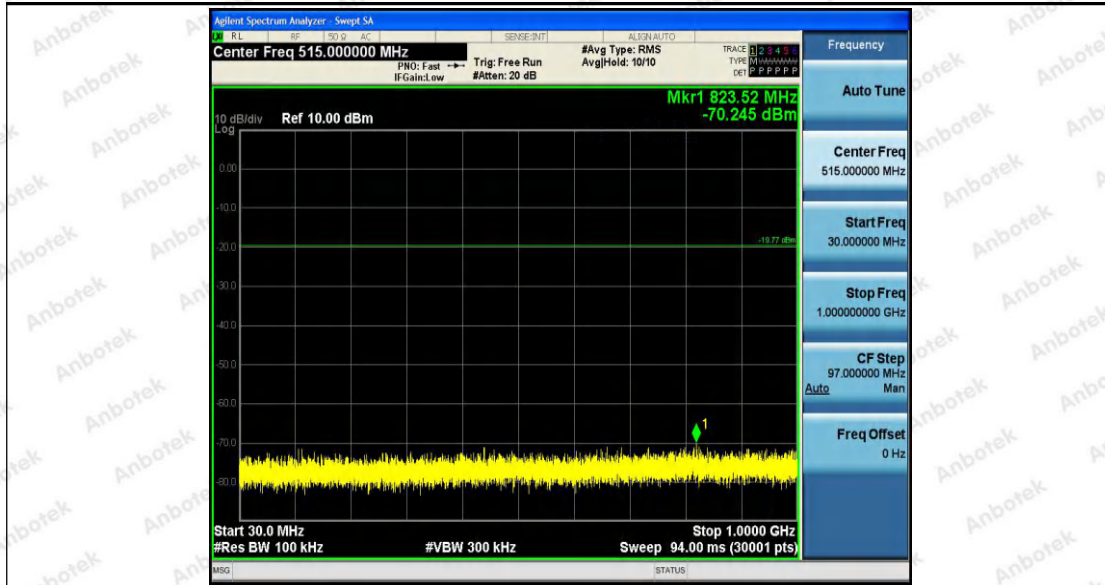
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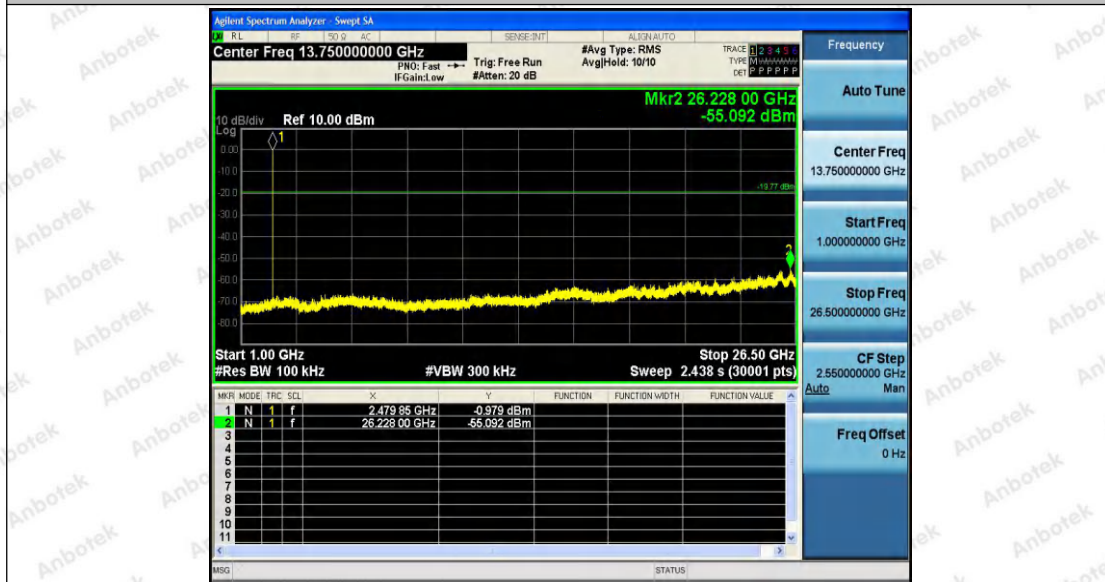
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

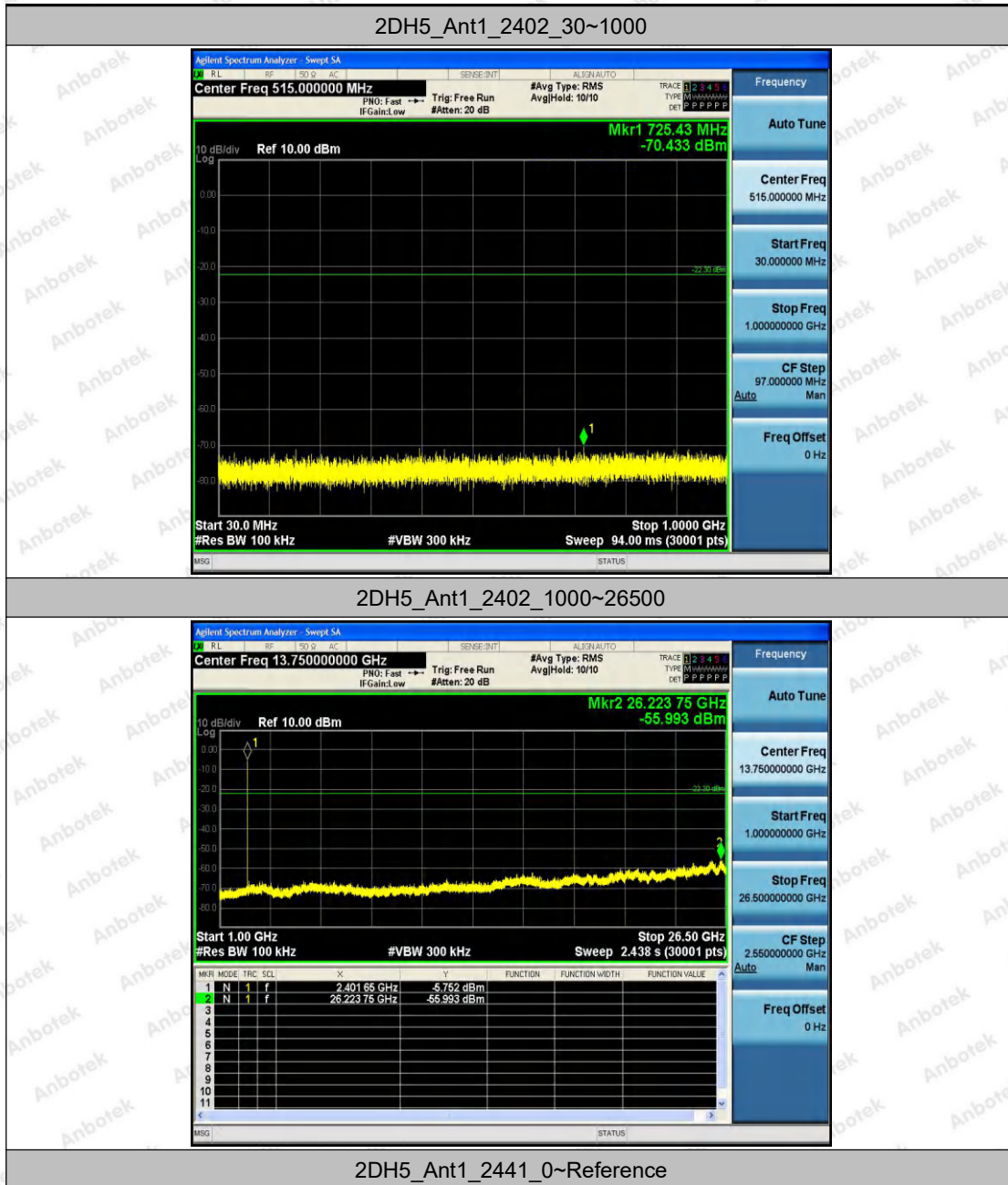


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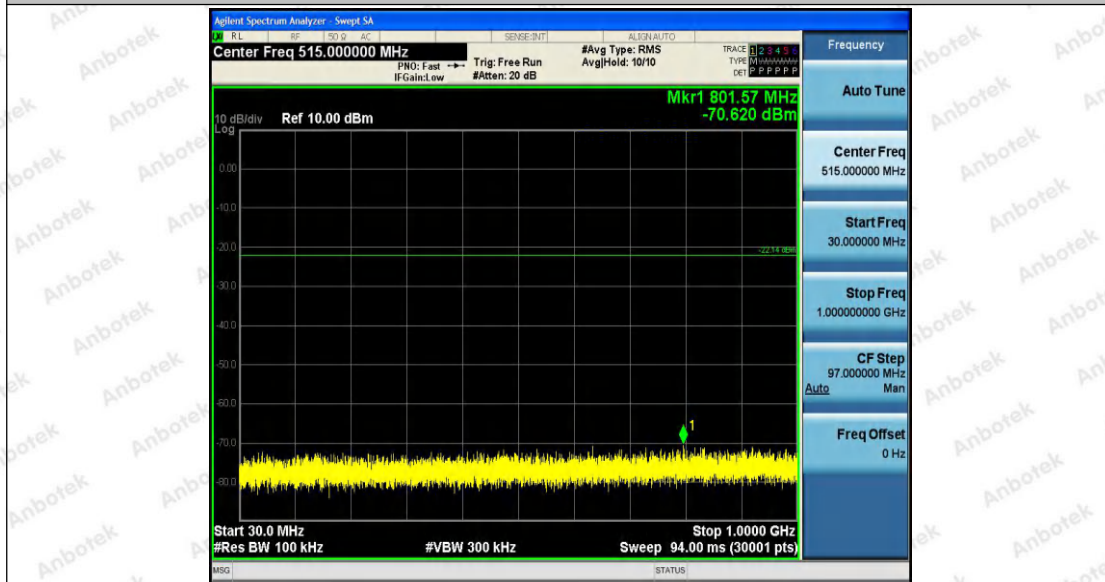
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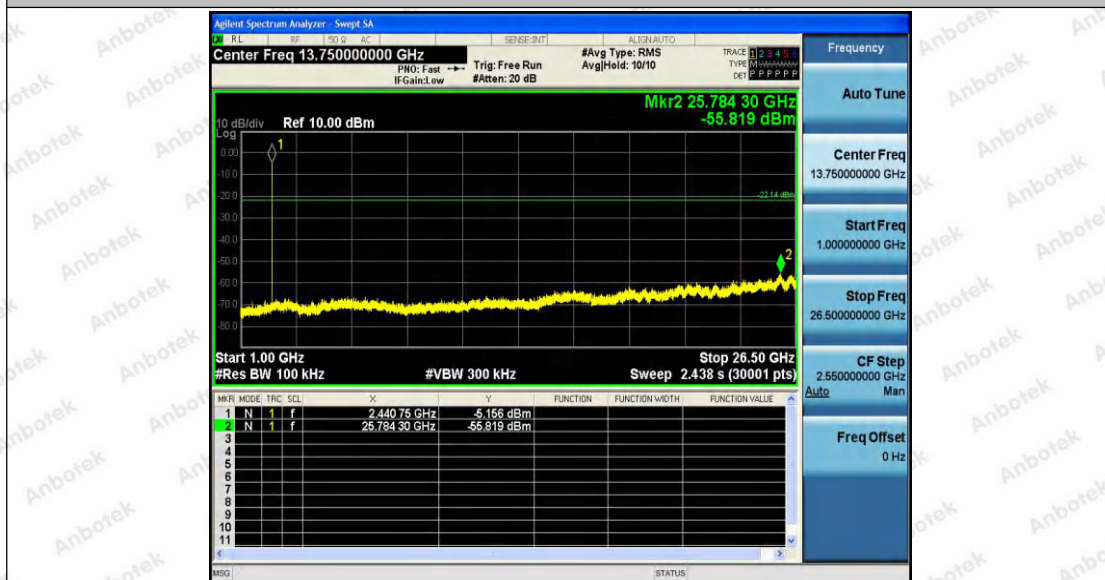
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

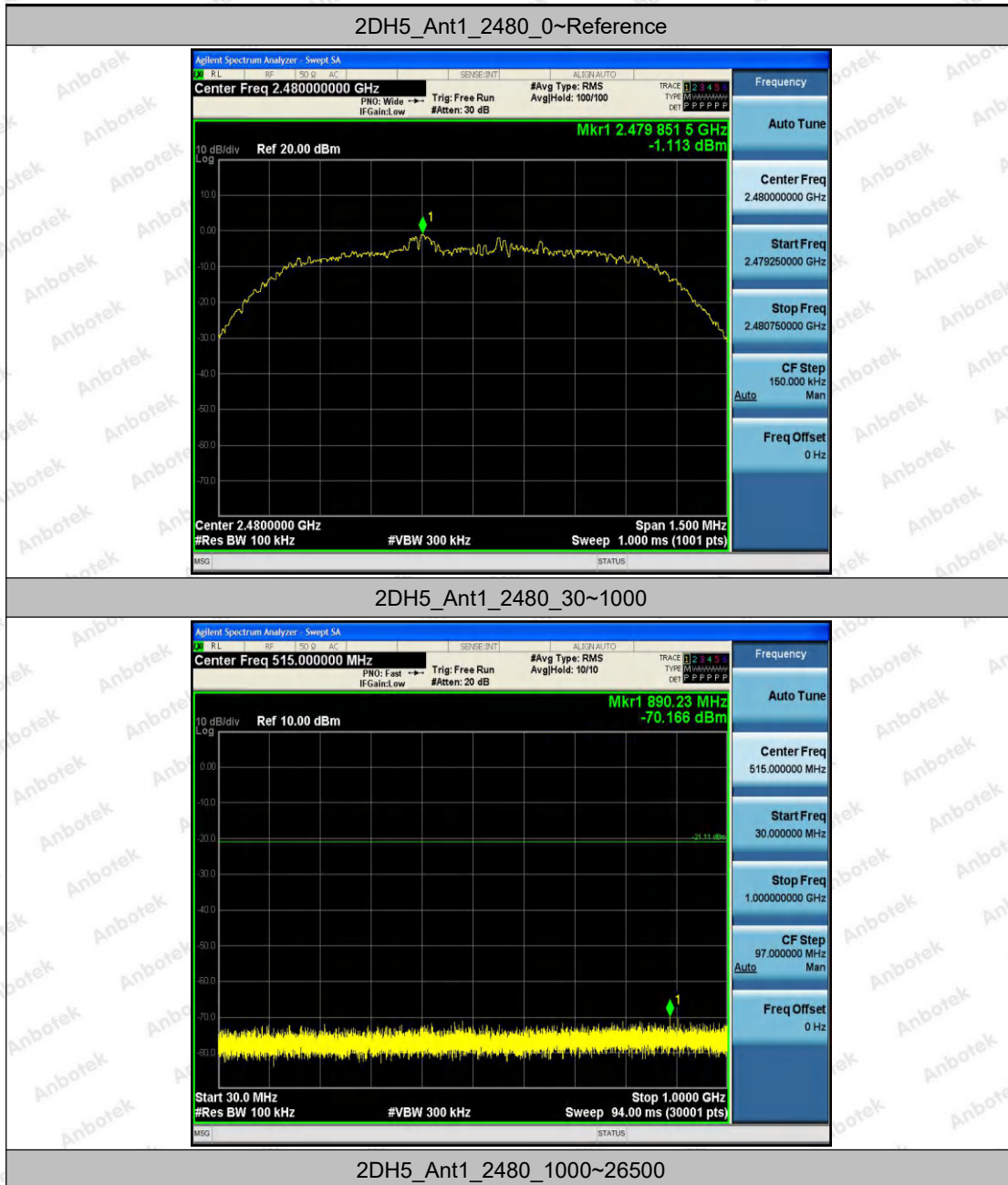


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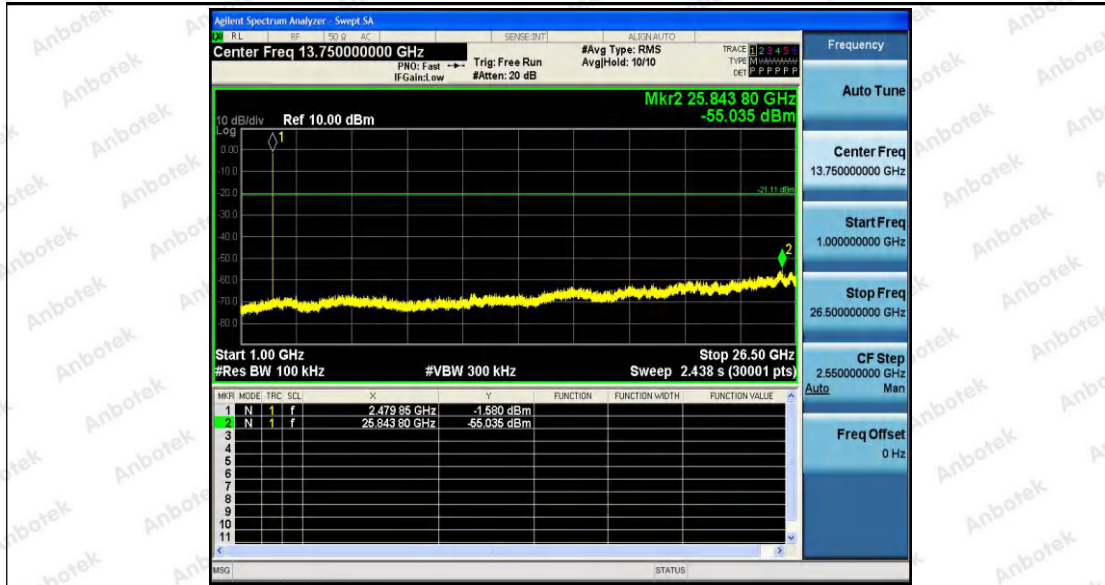
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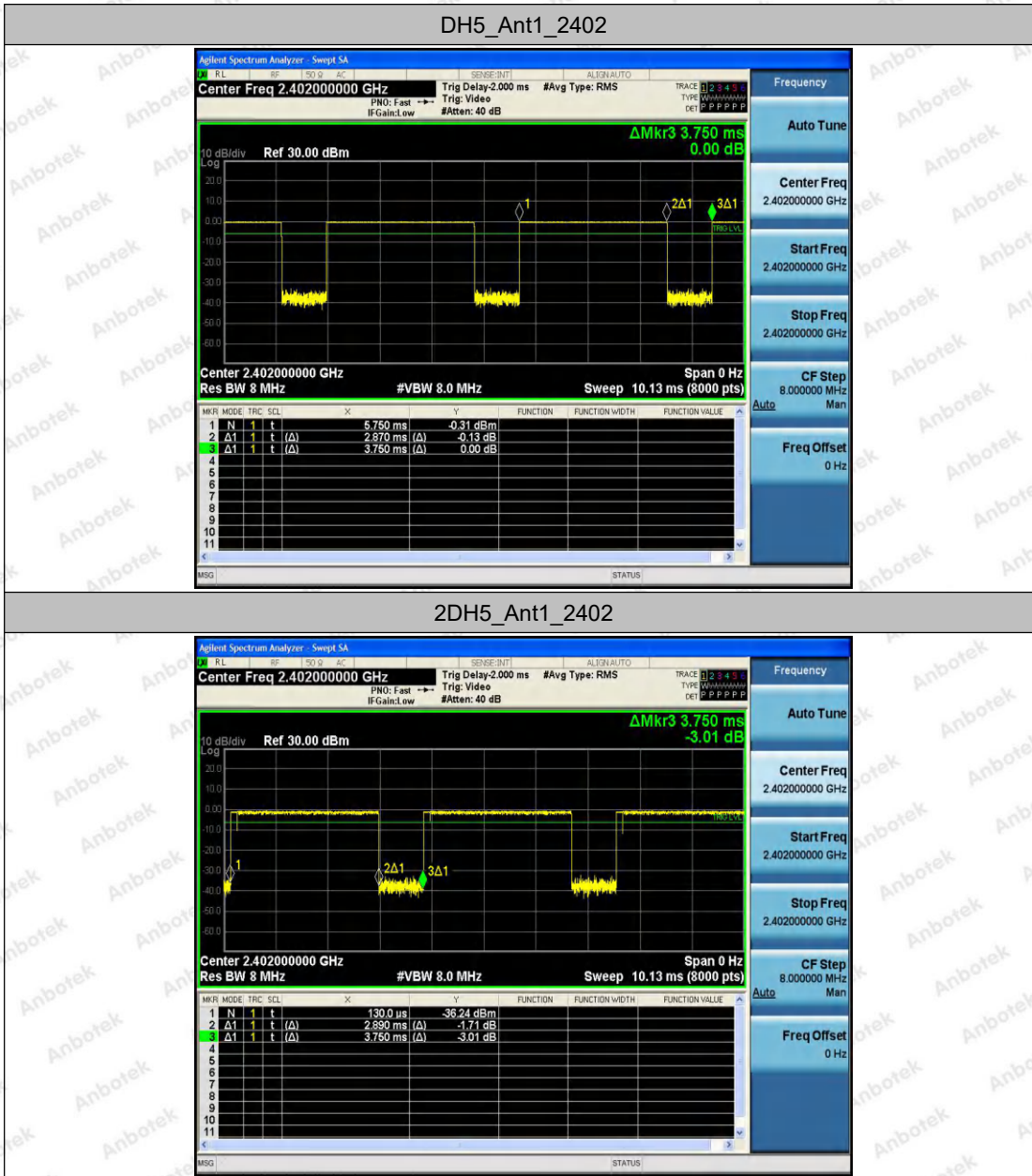
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs



---End---