

Appendix Test Data

Report No.:	18220WC10210602	Test Date:	2021.9.27
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	1.131	2401.421	2402.552	---	PASS
		2441	1.128	2440.430	2441.558	---	PASS
		2480	1.101	2479.451	2480.552	---	PASS
2DH5	Ant1	2402	1.374	2401.310	2402.684	---	PASS
		2441	1.383	2440.301	2441.684	---	PASS
		2480	1.338	2479.331	2480.669	---	PASS
3DH5	Ant1	2402	1.359	2401.322	2402.681	---	PASS
		2441	1.368	2440.319	2441.687	---	PASS
		2480	1.368	2479.322	2480.690	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5 Ant1 2480



3DH5 Ant1 2402



3DH5 Ant1 2441



3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89599	2401.54 9	2402.445	---	PASS
		2441	0.89613	2440.54 9	2441.445	---	PASS
		2480	0.89511	2479.54 9	2480.444	---	PASS
2DH5	Ant1	2402	1.2015	2401.39 5	2402.597	---	PASS
		2441	1.1892	2440.40 0	2441.589	---	PASS
		2480	1.1847	2479.40 2	2480.587	---	PASS
3DH5	Ant1	2402	1.2076	2401.38 4	2402.592	---	PASS
		2441	1.1977	2440.38 9	2441.586	---	PASS
		2480	1.1904	2479.39 5	2480.586	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.26	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-1.26	≤20.97	PASS
2DH5	Ant1	2402	-1.68	≤20.97	PASS
		2441	-1.41	≤20.97	PASS
		2480	-1.95	≤20.97	PASS
3DH5	Ant1	2402	-1.6	≤20.97	PASS
		2441	-1.05	≤20.97	PASS
		2480	-1.64	≤20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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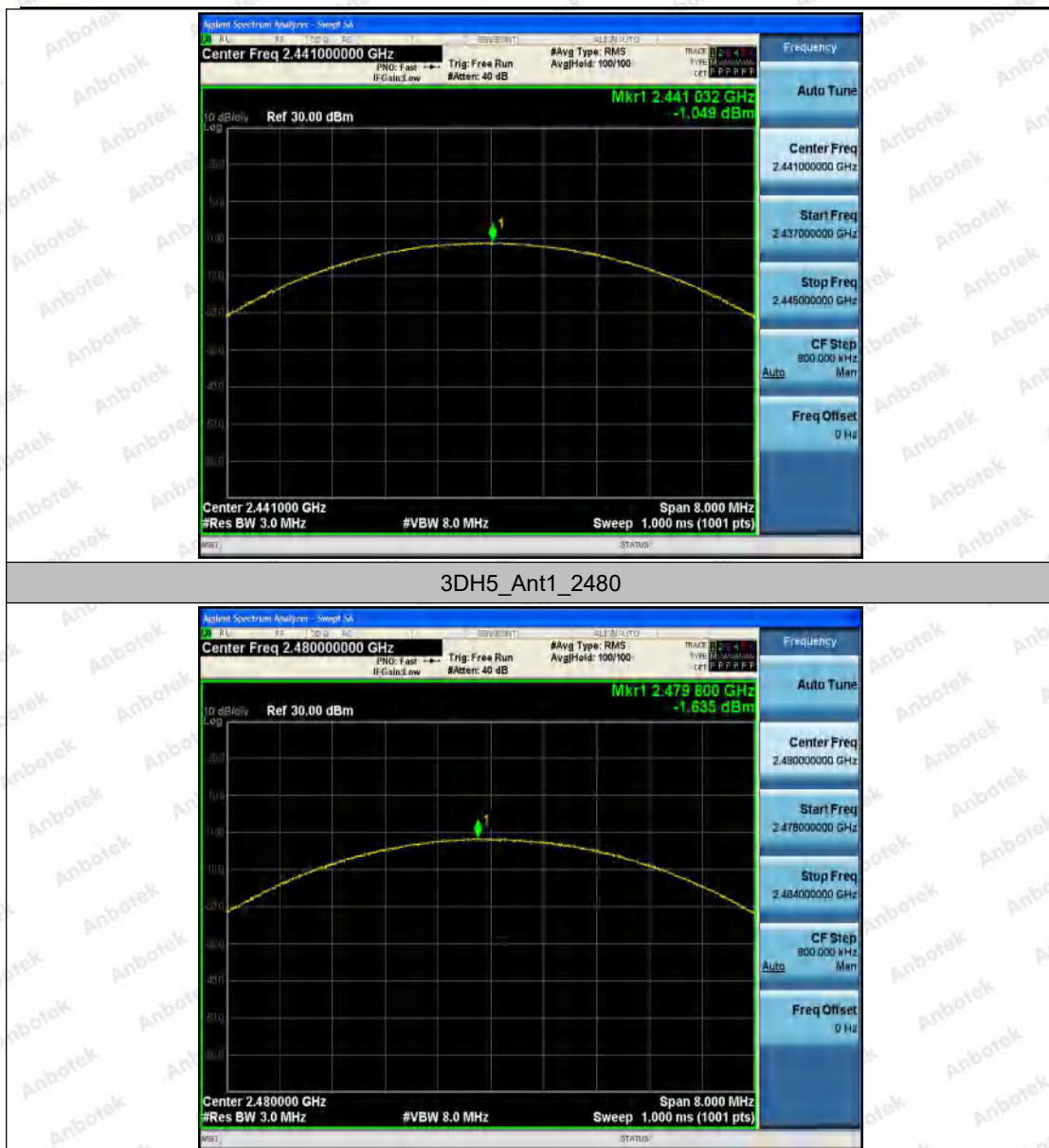
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.754	PASS
2DH5	Ant1	Hop	1.126	≥ 0.922	PASS
3DH5	Ant1	Hop	0.97	≥ 0.912	PASS

Test Graphs





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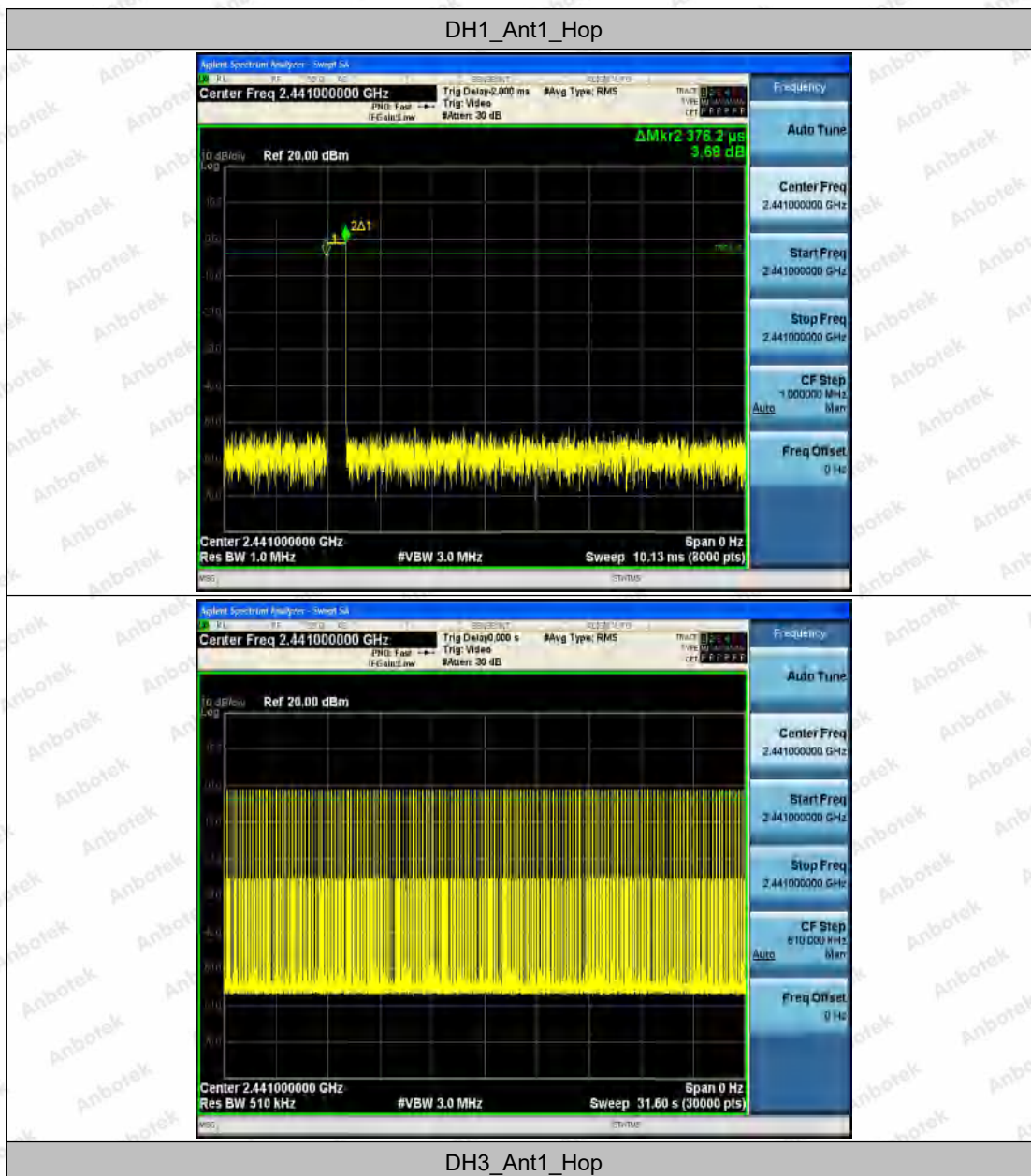
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS

Test Graphs



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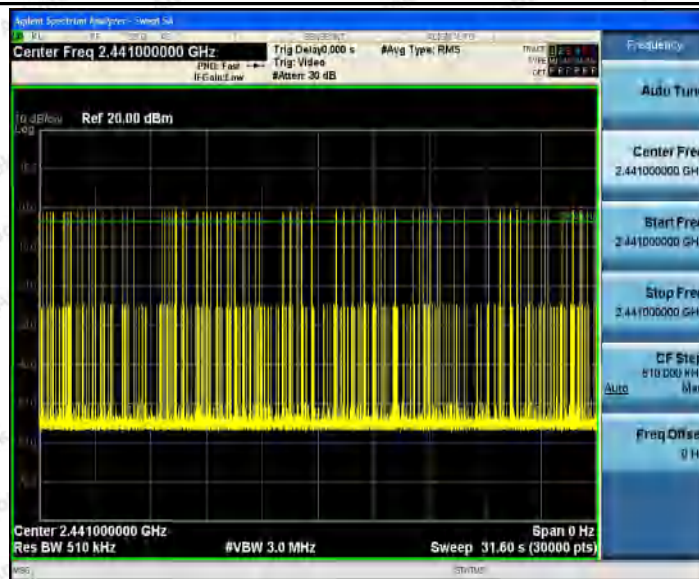


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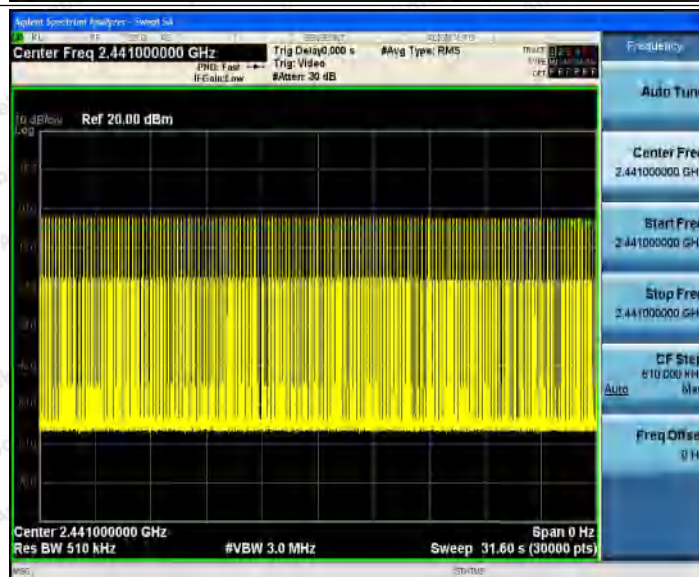
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

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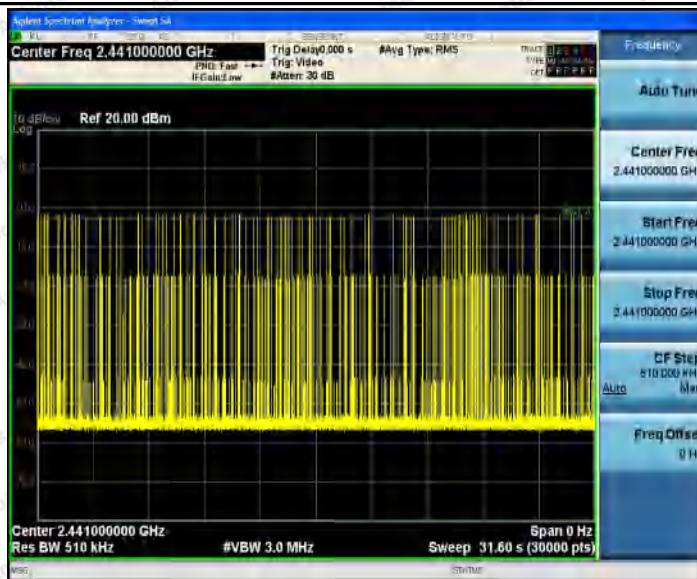


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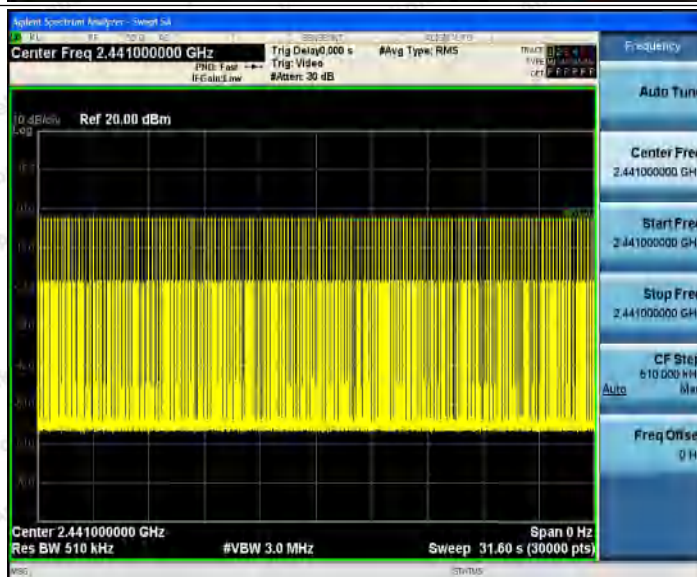
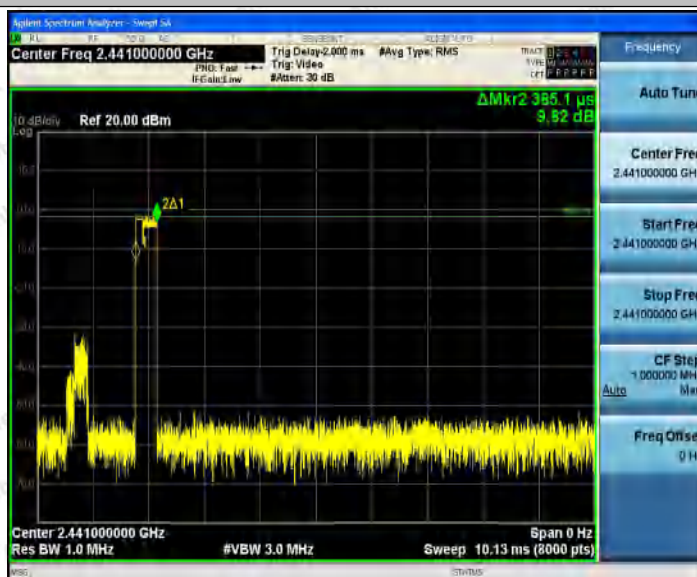
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3DH1_Ant1_Hop



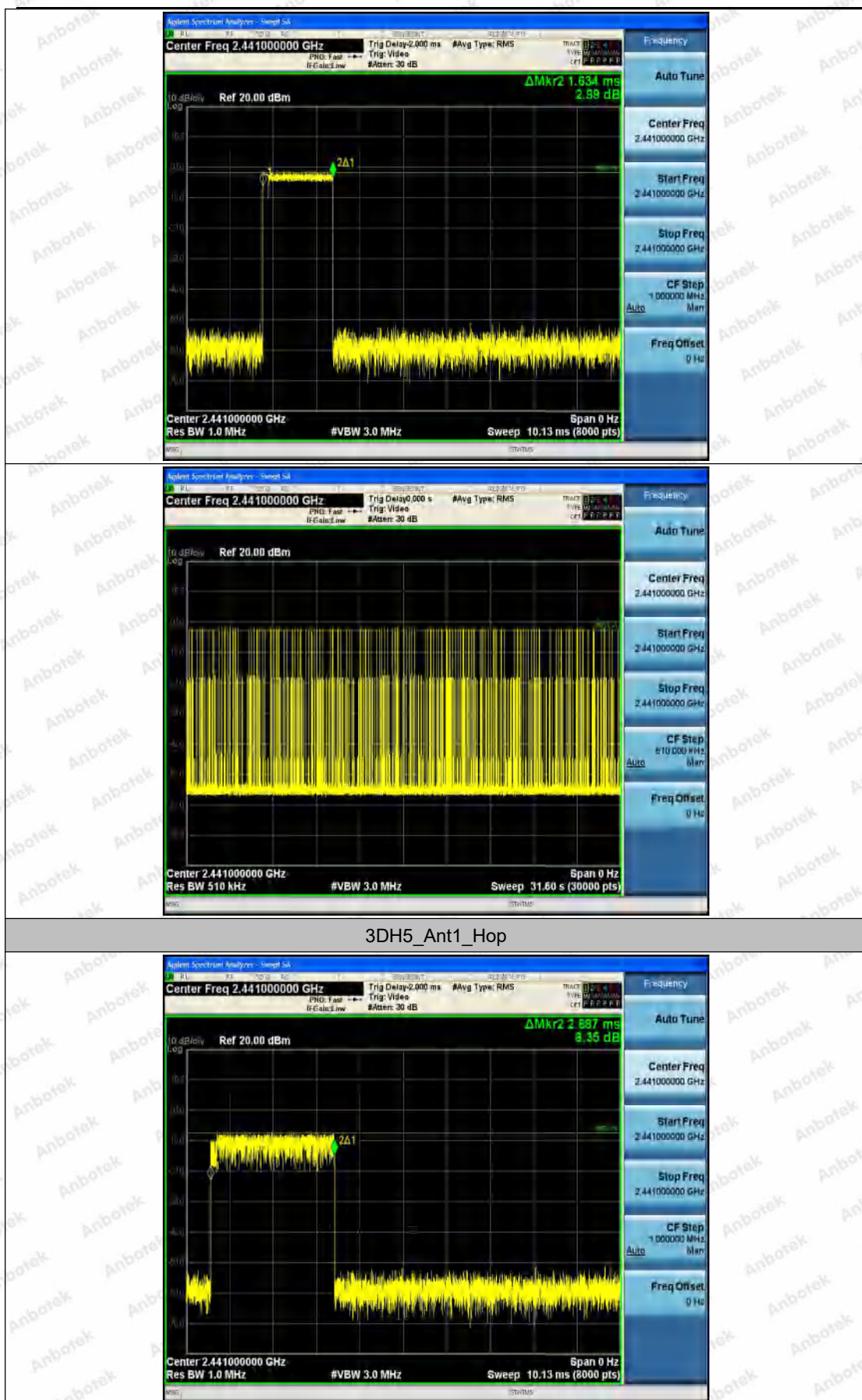
3DH3_Ant1_Hop

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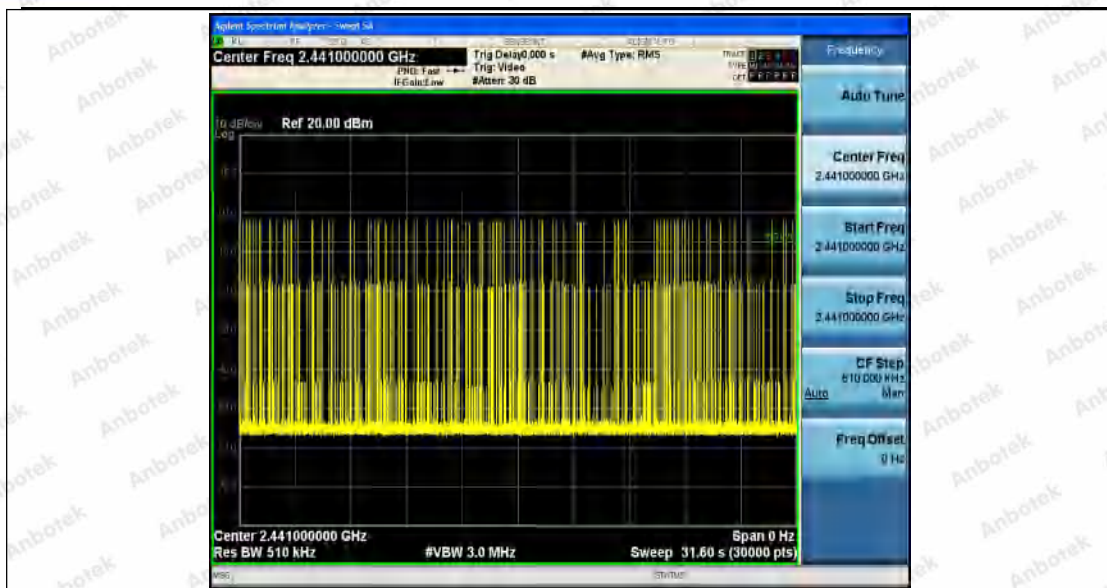
3DH5_Ant1_Hop

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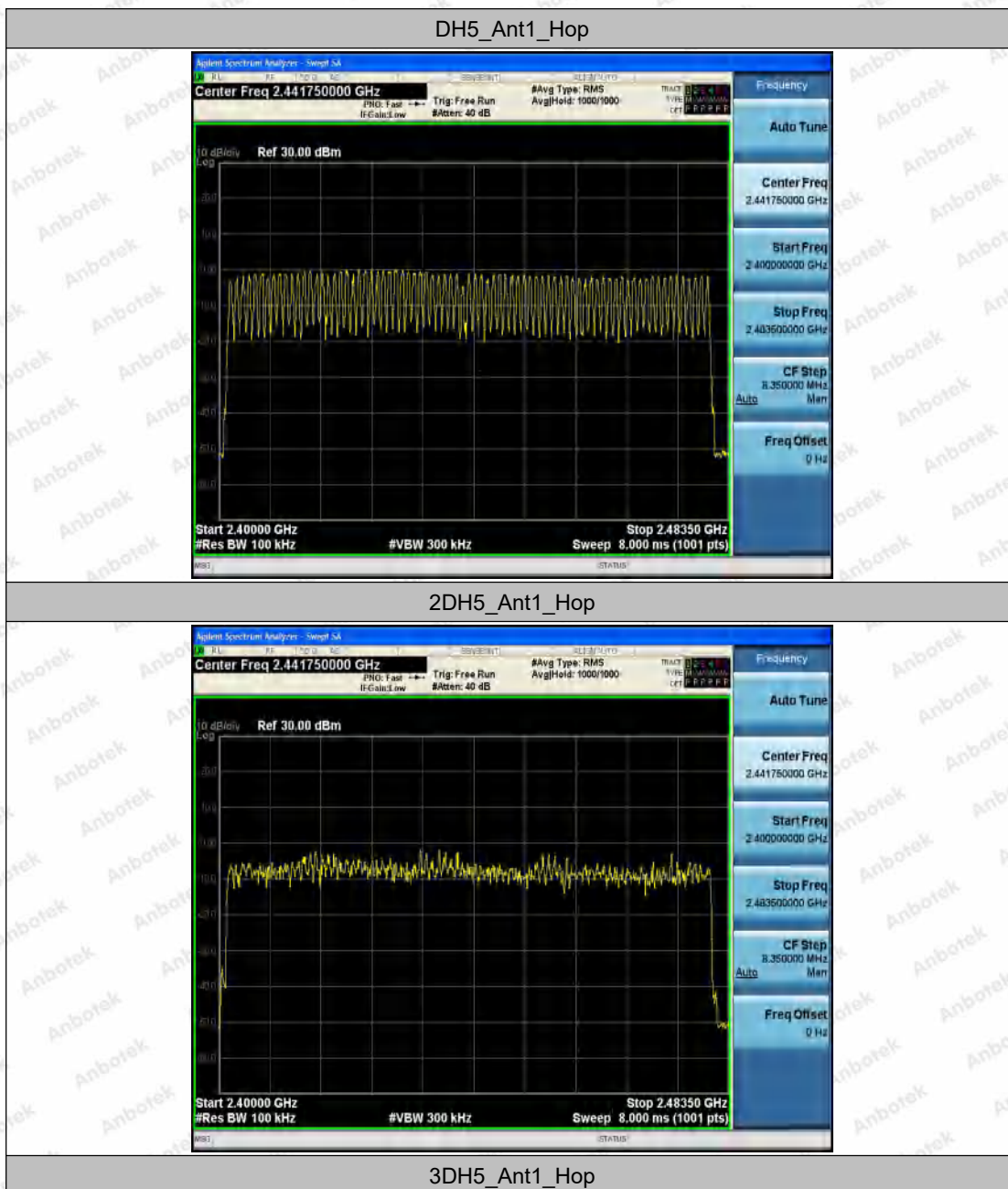
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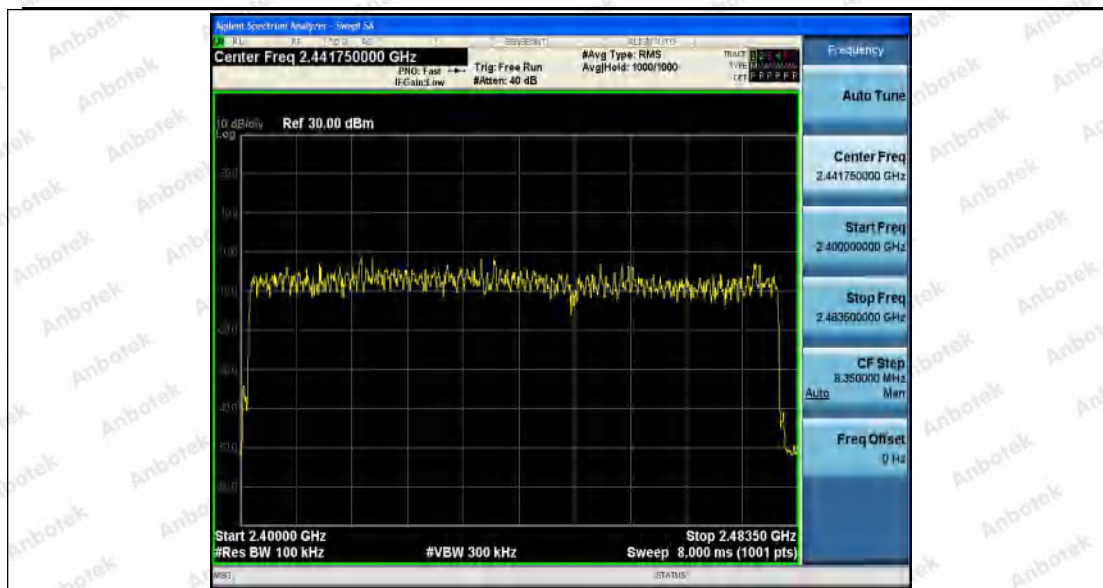
Appendix F: Number of hopping channels

Test Result

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

Test Graphs





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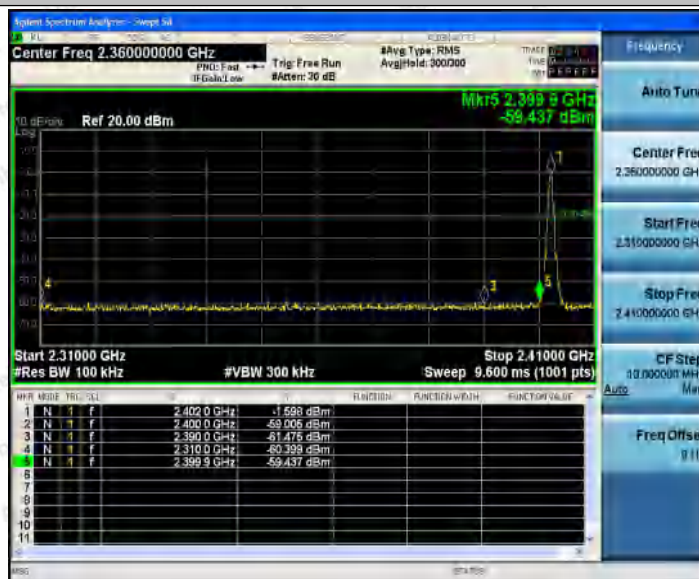
Appendix G: Band edge measurements

Test Result

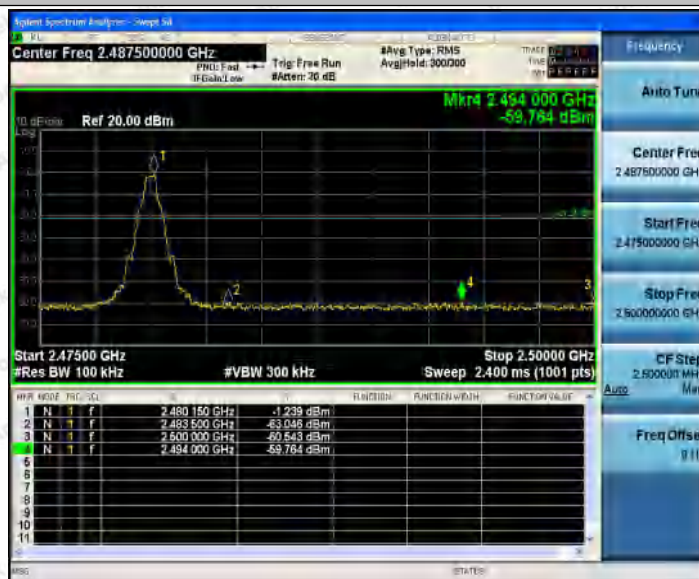
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.60	-59.44	≤ -21.6	PASS
		High	2480	-1.24	-59.76	≤ -21.24	PASS
		Low	Hop	-1.20	-56.44	≤ -21.2	PASS
		High	Hop	-1.86	-60.99	≤ -21.86	PASS
2DH5	Ant1	Low	2402	-2.72	-58.75	≤ -22.72	PASS
		High	2480	-2.92	-58.37	≤ -22.92	PASS
		Low	Hop	-3.07	-59.6	≤ -23.07	PASS
		High	Hop	-6.41	-61.64	≤ -26.41	PASS
3DH5	Ant1	Low	2402	-2.62	-56.79	≤ -22.62	PASS
		High	2480	-2.76	-59.83	≤ -22.76	PASS
		Low	Hop	-5.78	-58.09	≤ -25.78	PASS
		High	Hop	-5.83	-62.68	≤ -25.83	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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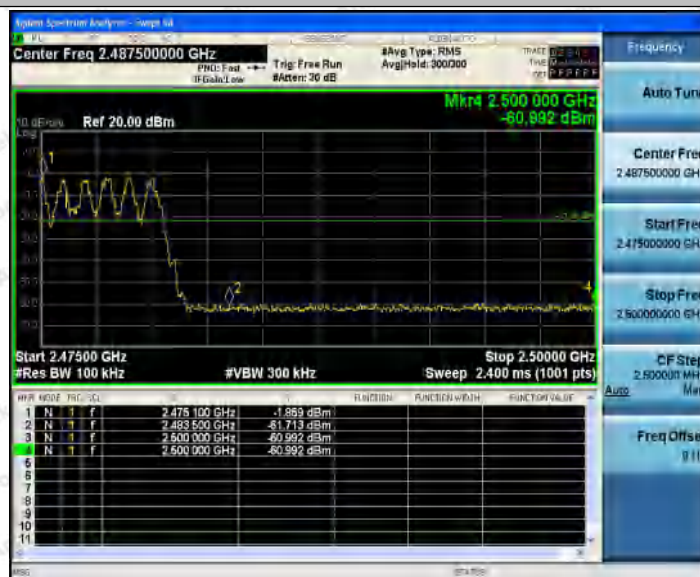
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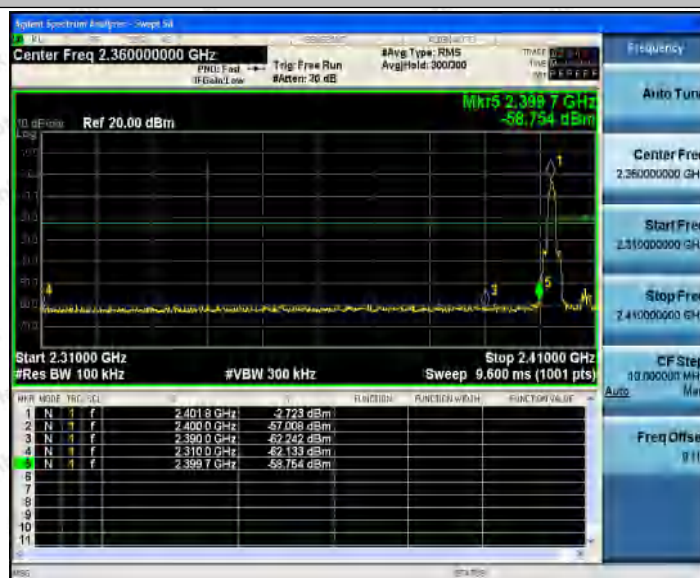
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



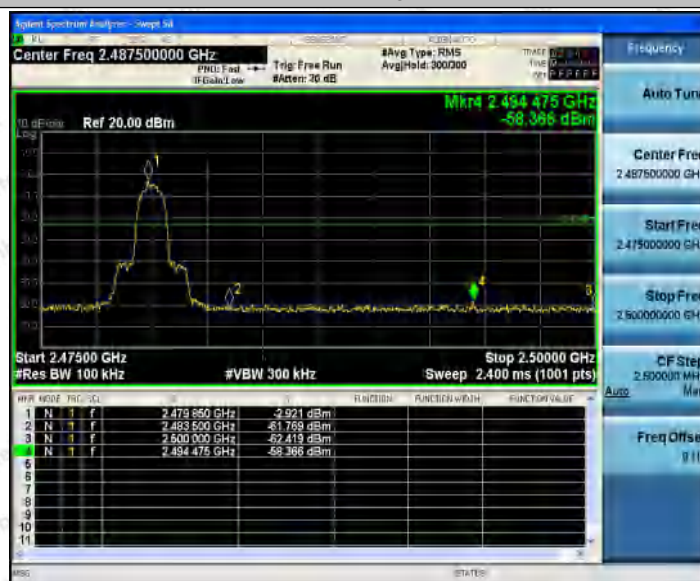
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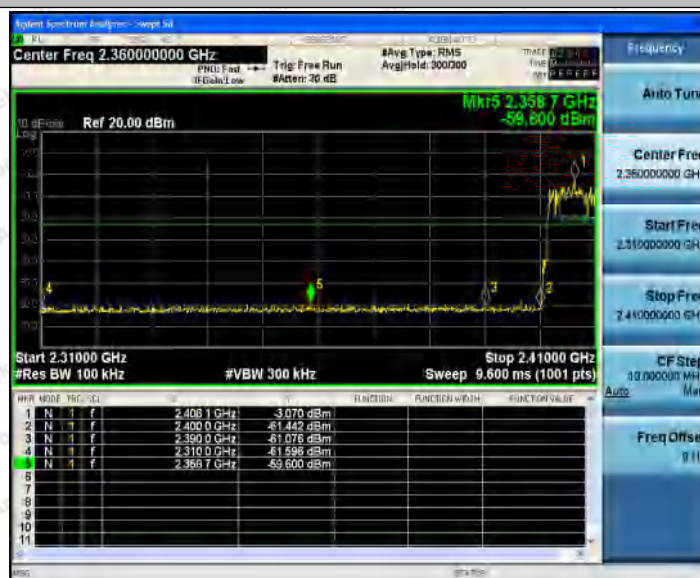
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2DH5_Ant1_High_2480



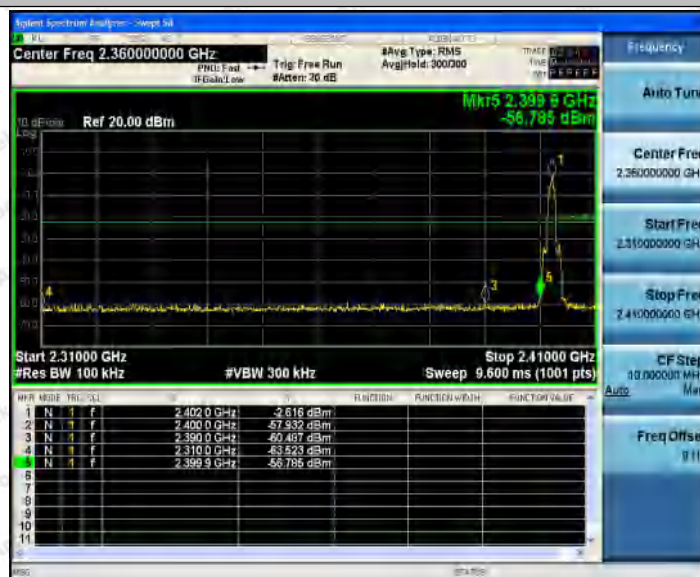
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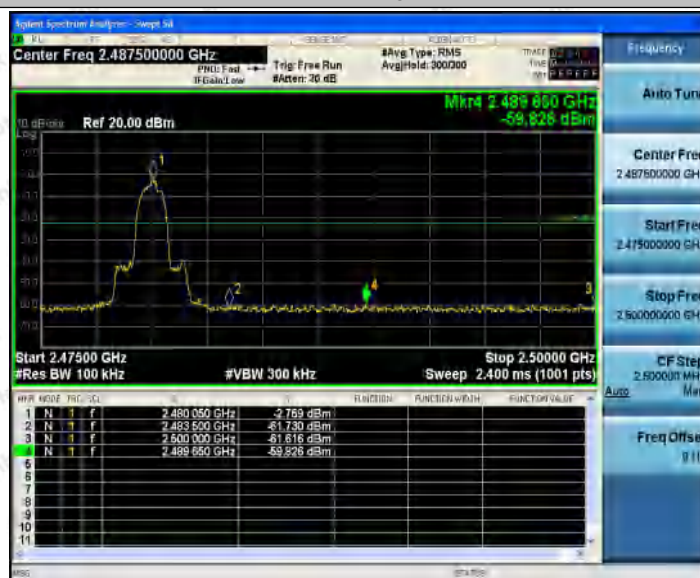
2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

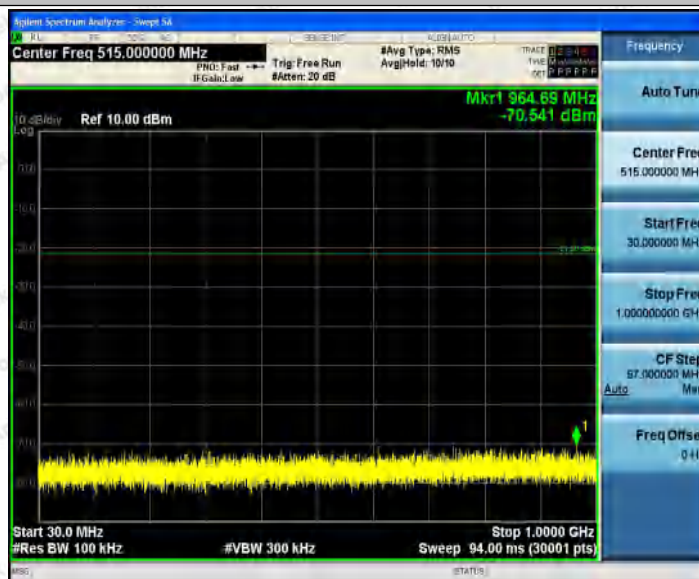
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-70.54	≤-21.6	PASS
			1000~26500	-1.60	-44.17	≤-21.6	PASS
		2441	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-69.72	≤-21.23	PASS
			1000~26500	-1.23	-46.68	≤-21.23	PASS
		2480	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-70.08	≤-21.65	PASS
			1000~26500	-1.65	-48.17	≤-21.65	PASS
2DH5	Ant1	2402	Reference	-3.08	-3.08	---	PASS
			30~1000	-3.08	-71.13	≤-23.08	PASS
			1000~26500	-3.08	-47.51	≤-23.08	PASS
		2441	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-70.28	≤-22.67	PASS
			1000~26500	-2.67	-51.29	≤-22.67	PASS
		2480	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-69.84	≤-23.76	PASS
			1000~26500	-3.76	-53.68	≤-23.76	PASS
3DH5	Ant1	2402	Reference	-3.12	-3.12	---	PASS
			30~1000	-3.12	-60.9	≤-23.12	PASS
			1000~26500	-3.12	-46.49	≤-23.12	PASS
		2441	Reference	-2.39	-2.39	---	PASS
			30~1000	-2.39	-61.95	≤-22.39	PASS
			1000~26500	-2.39	-47.89	≤-22.39	PASS
		2480	Reference	-2.79	-2.79	---	PASS
			30~1000	-2.79	-70.86	≤-22.79	PASS
			1000~26500	-2.79	-50.17	≤-22.79	PASS

Test Graphs

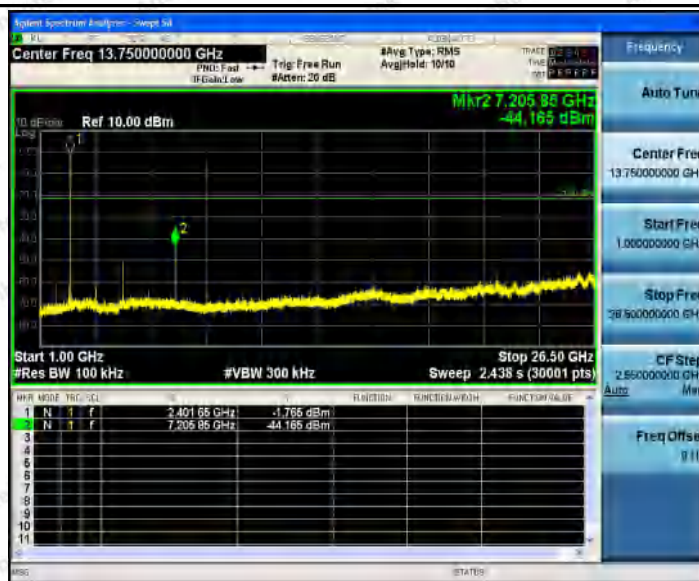
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DH5_Ant1_2402_30~1000



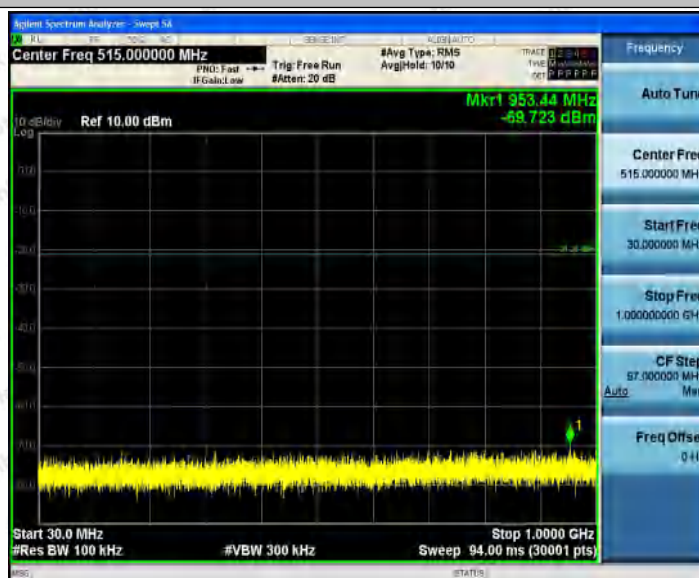
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



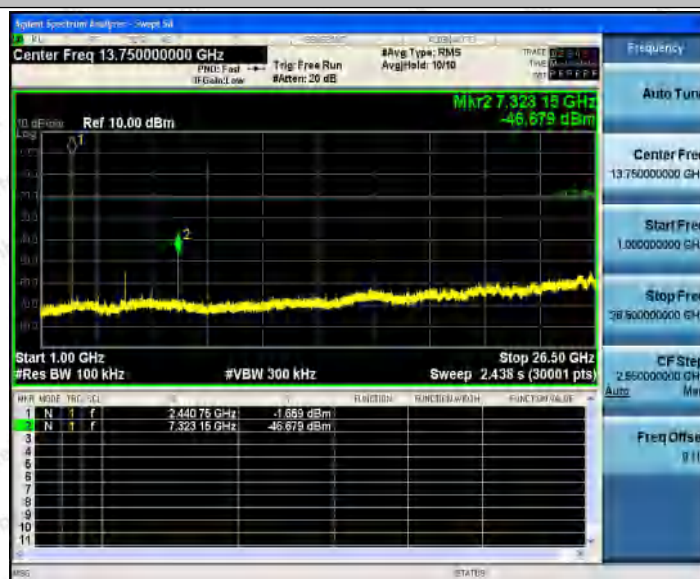
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



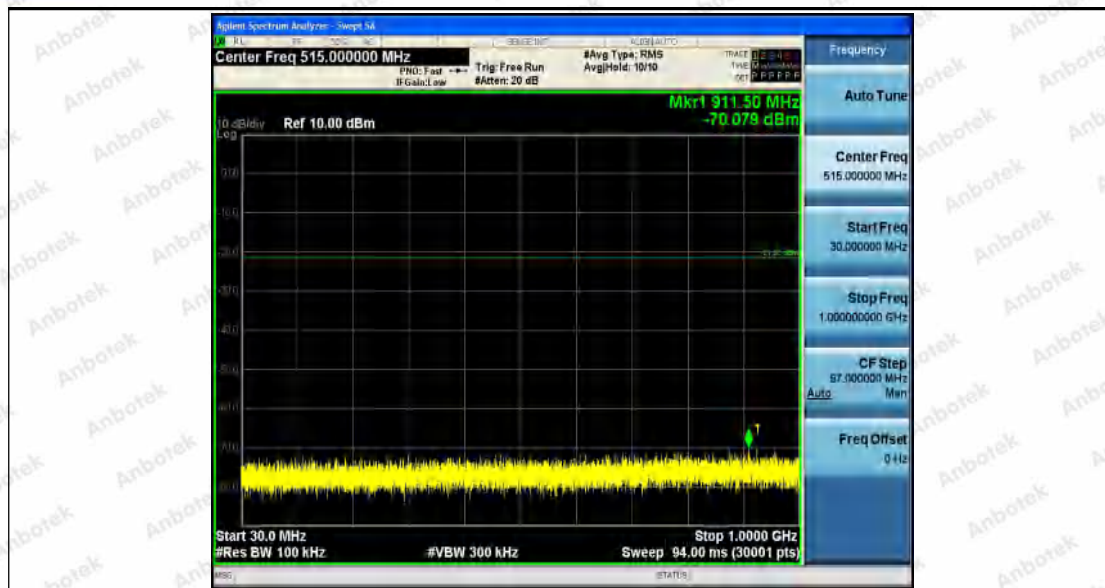
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



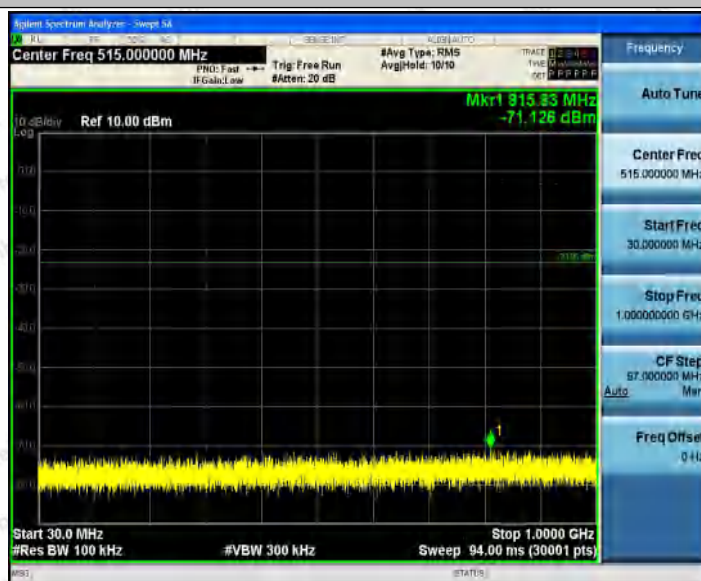
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2DH5_Ant1_2402_30~1000



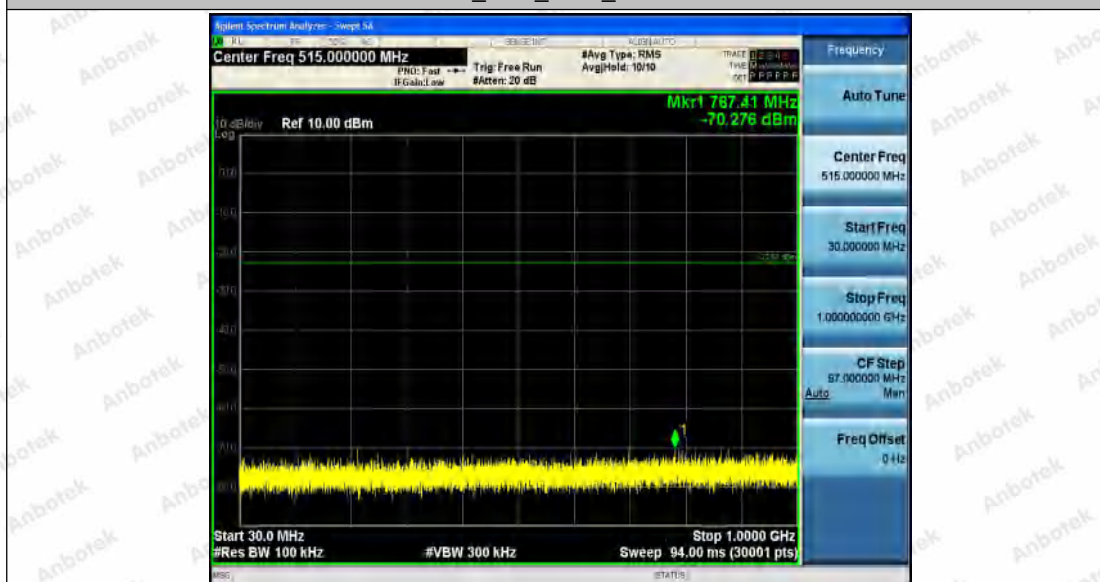
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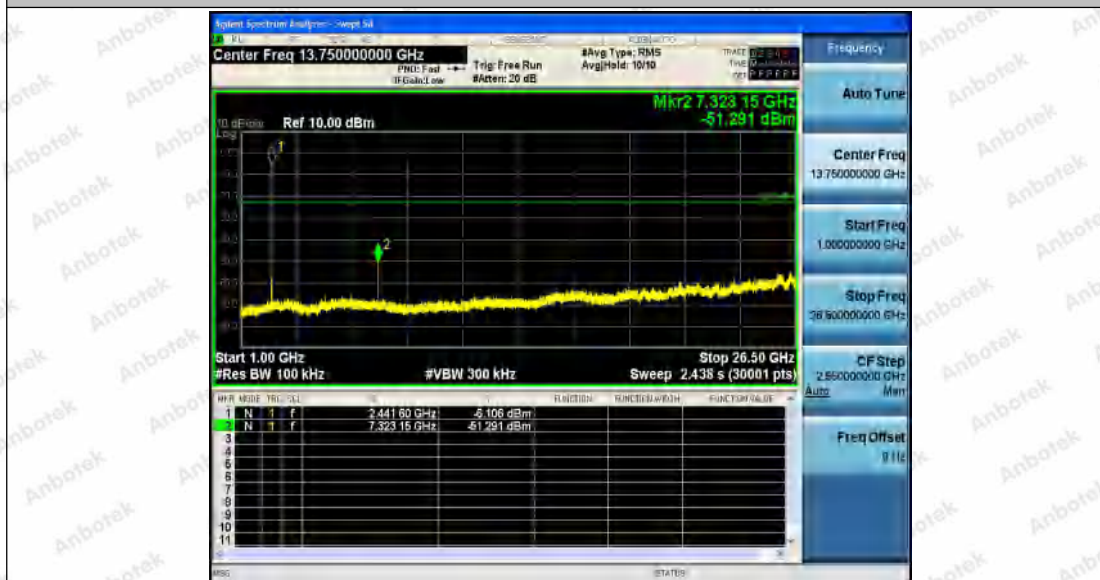
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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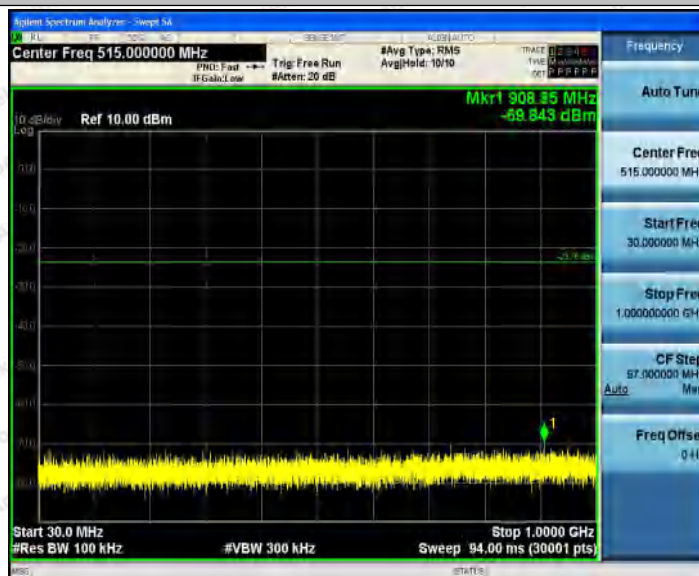
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



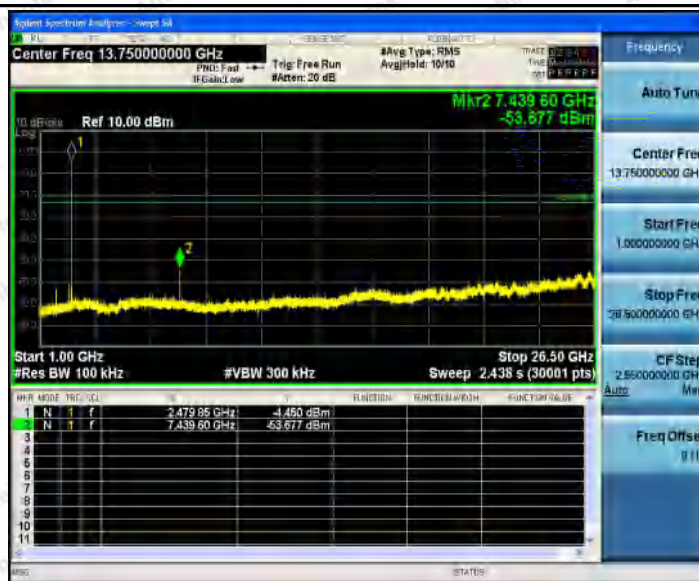
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



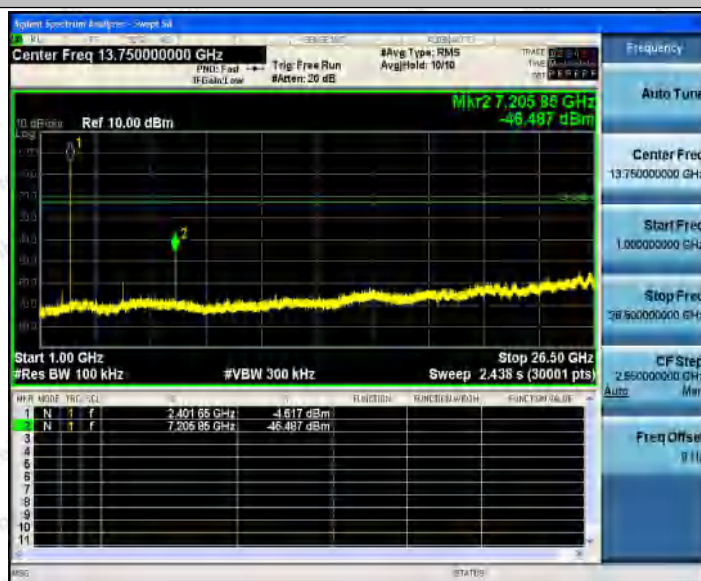
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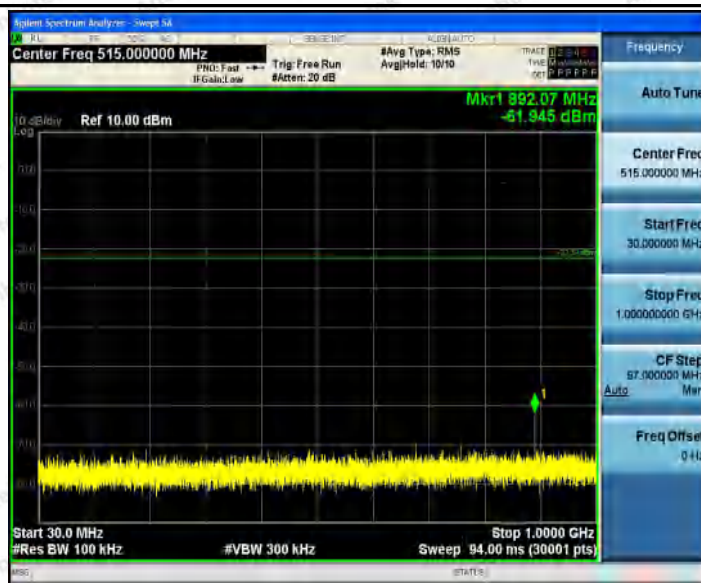
3DH5_Ant1_2402_1000~26500



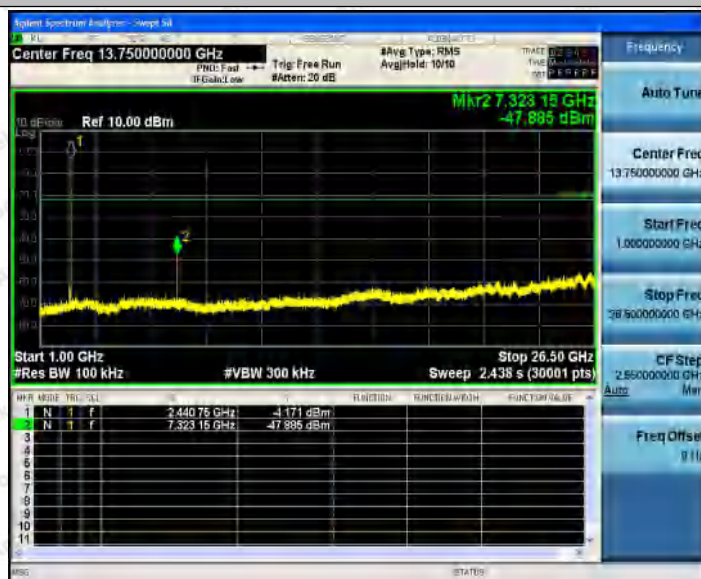
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

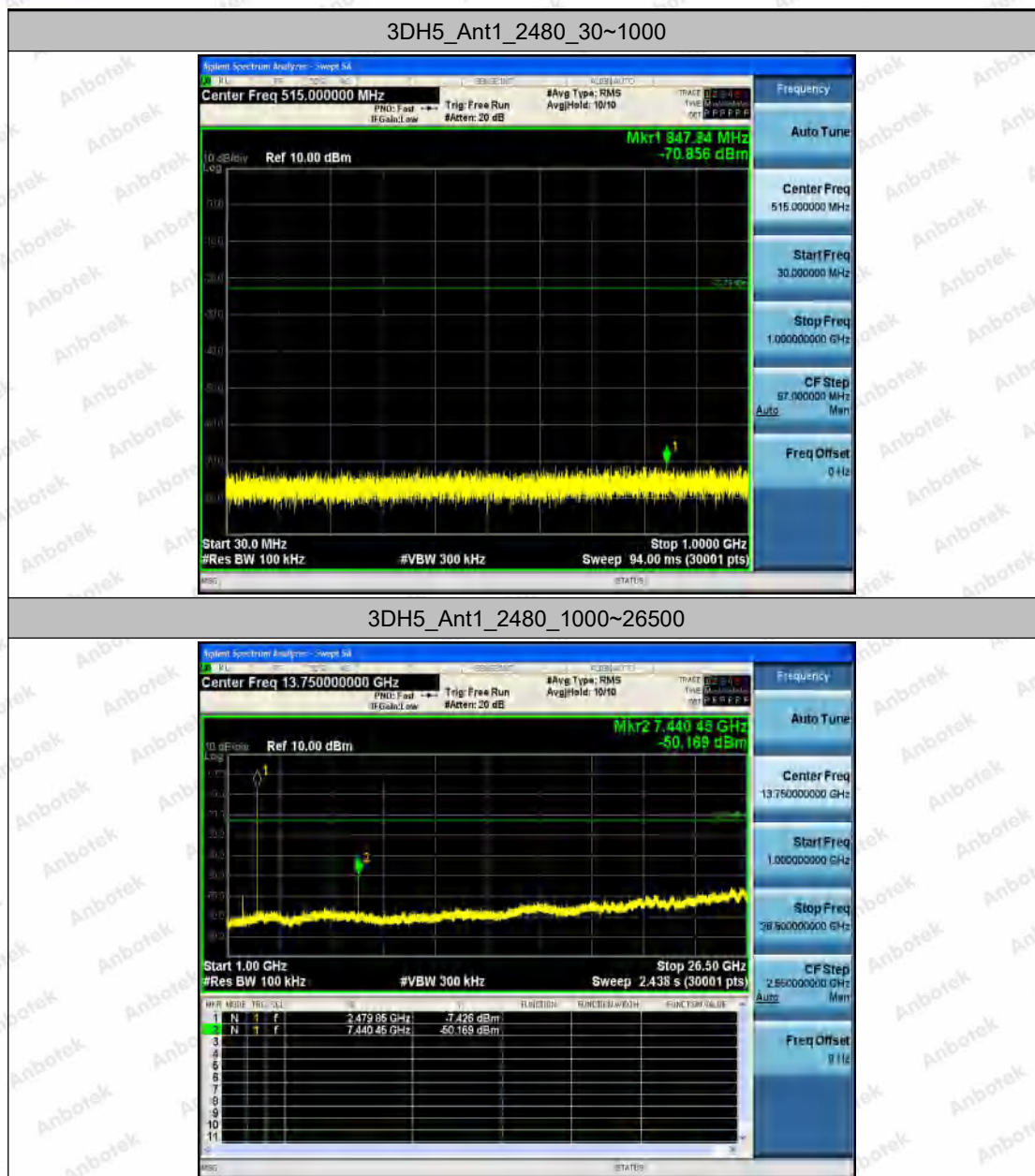


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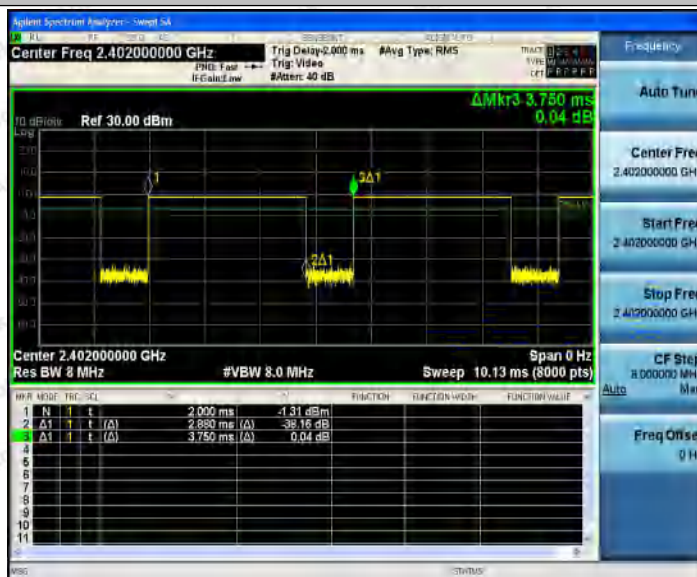
Appendix I: Duty Cycle

Test Result

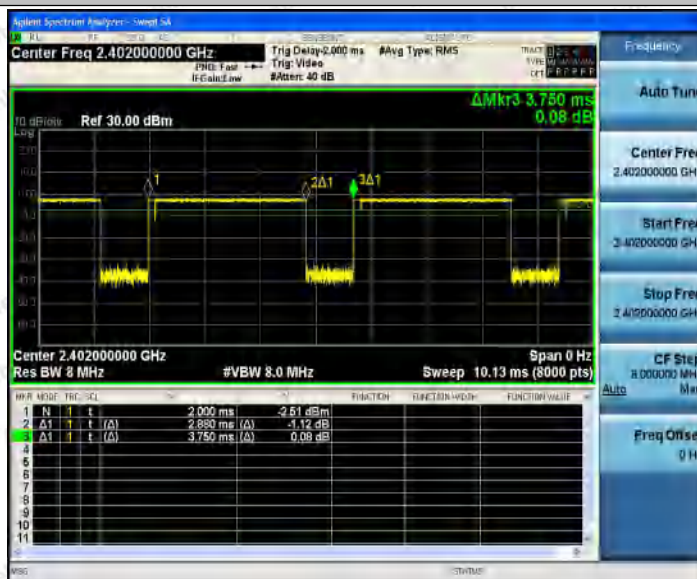
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

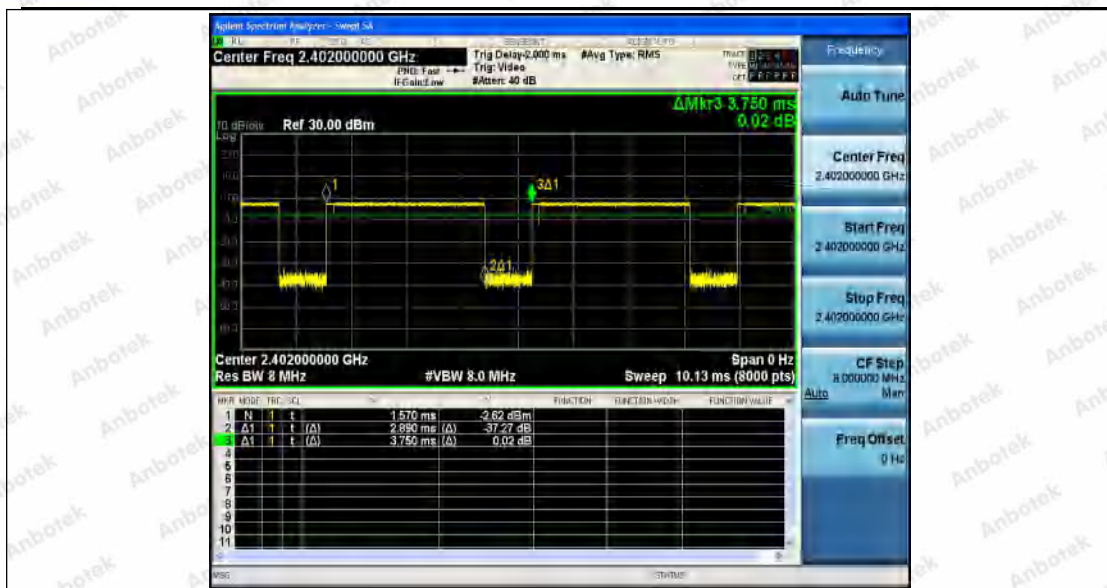
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---