

Appendix Test Data

Report No.:	18220WC10261201	Test Sample No.:	1-2-2
Start Test Date:	2021.11.26	Finish Test Date:	2021.11.30
Test Engineer:	<i>Jony 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	0.948	2401.532	2402.480	---	PASS
		2441	0.948	2440.529	2441.477	---	PASS
		2480	0.948	2479.532	2480.480	---	PASS
2DH5	Ant1	2402	1.326	2401.331	2402.657	---	PASS
		2441	1.314	2440.337	2441.651	---	PASS
		2480	1.320	2479.331	2480.651	---	PASS
3DH5	Ant1	2402	1.296	2401.346	2402.642	---	PASS
		2441	1.308	2440.343	2441.651	---	PASS
		2480	1.317	2479.337	2480.654	---	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	0.89734	2401.55 0	2402.447	---	PASS
		2441	0.89431	2440.54 8	2441.442	---	PASS
		2480	0.88457	2479.55 2	2480.437	---	PASS
2DH5	Ant1	2402	1.1963	2401.39 7	2402.593	---	PASS
		2441	1.1885	2440.39 9	2441.587	---	PASS
		2480	1.1901	2479.39 8	2480.588	---	PASS
3DH5	Ant1	2402	1.2175	2401.37 6	2402.594	---	PASS
		2441	1.2064	2440.38 3	2441.589	---	PASS
		2480	1.1959	2479.39 1	2480.587	---	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 C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.33	≤20.97	PASS
		2441	-1.7	≤20.97	PASS
		2480	0.56	≤20.97	PASS
2DH5	Ant1	2402	-0.4	≤20.97	PASS
		2441	-1.82	≤20.97	PASS
		2480	-0.31	≤20.97	PASS
3DH5	Ant1	2402	-0.4	≤20.97	PASS
		2441	-1.77	≤20.97	PASS
		2480	-0.18	≤20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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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	1.042	≥ 0.948	PASS
2DH5	Ant1	Hop	1.298	≥ 0.884	PASS
3DH5	Ant1	Hop	1.022	≥ 0.878	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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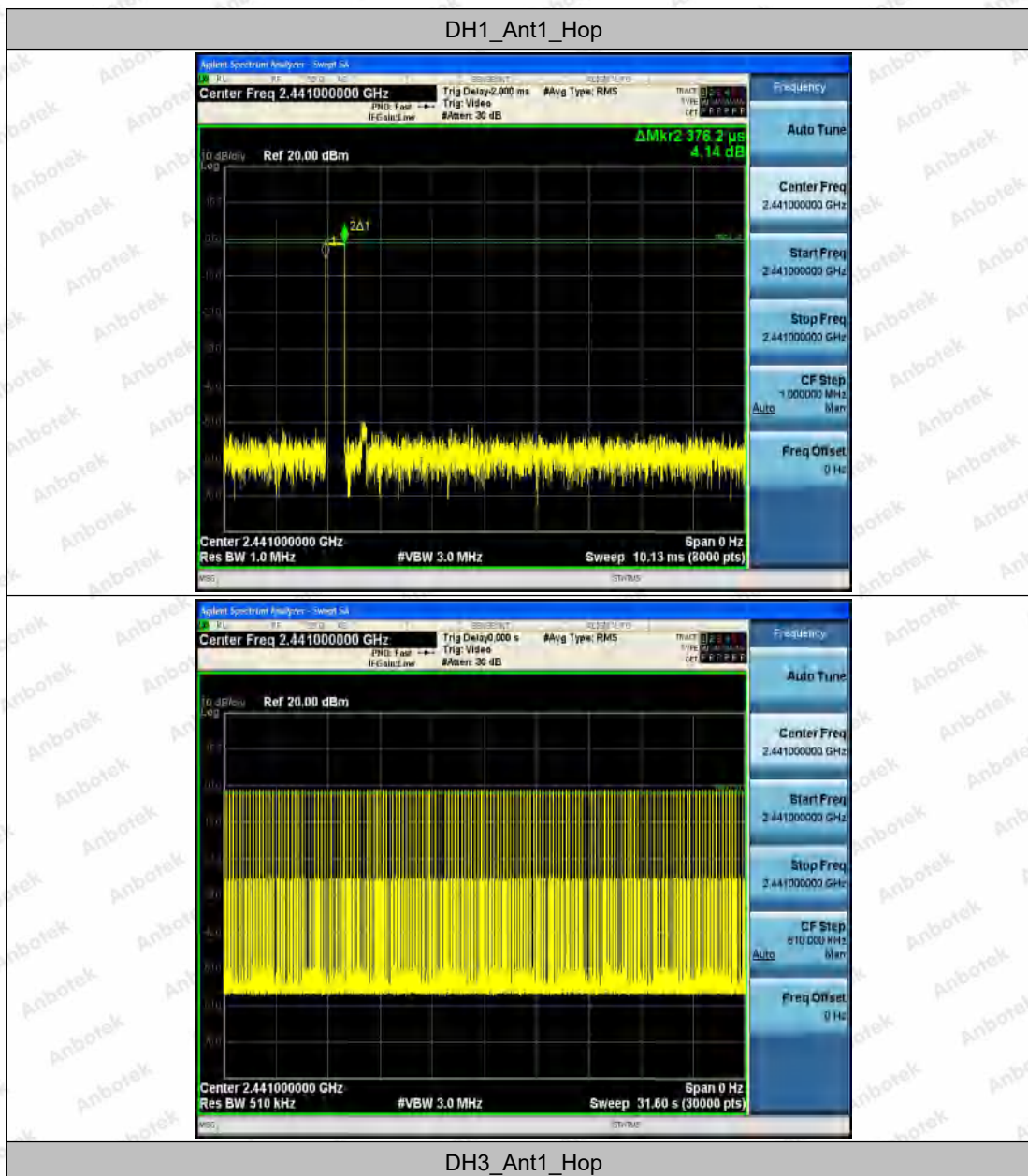
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Appendix E: Time of occupancy

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	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	113	0.326	≤0.4	PASS
3DH1	Ant1	Hop	0.39	315	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	≤0.4	PASS

Test Graphs

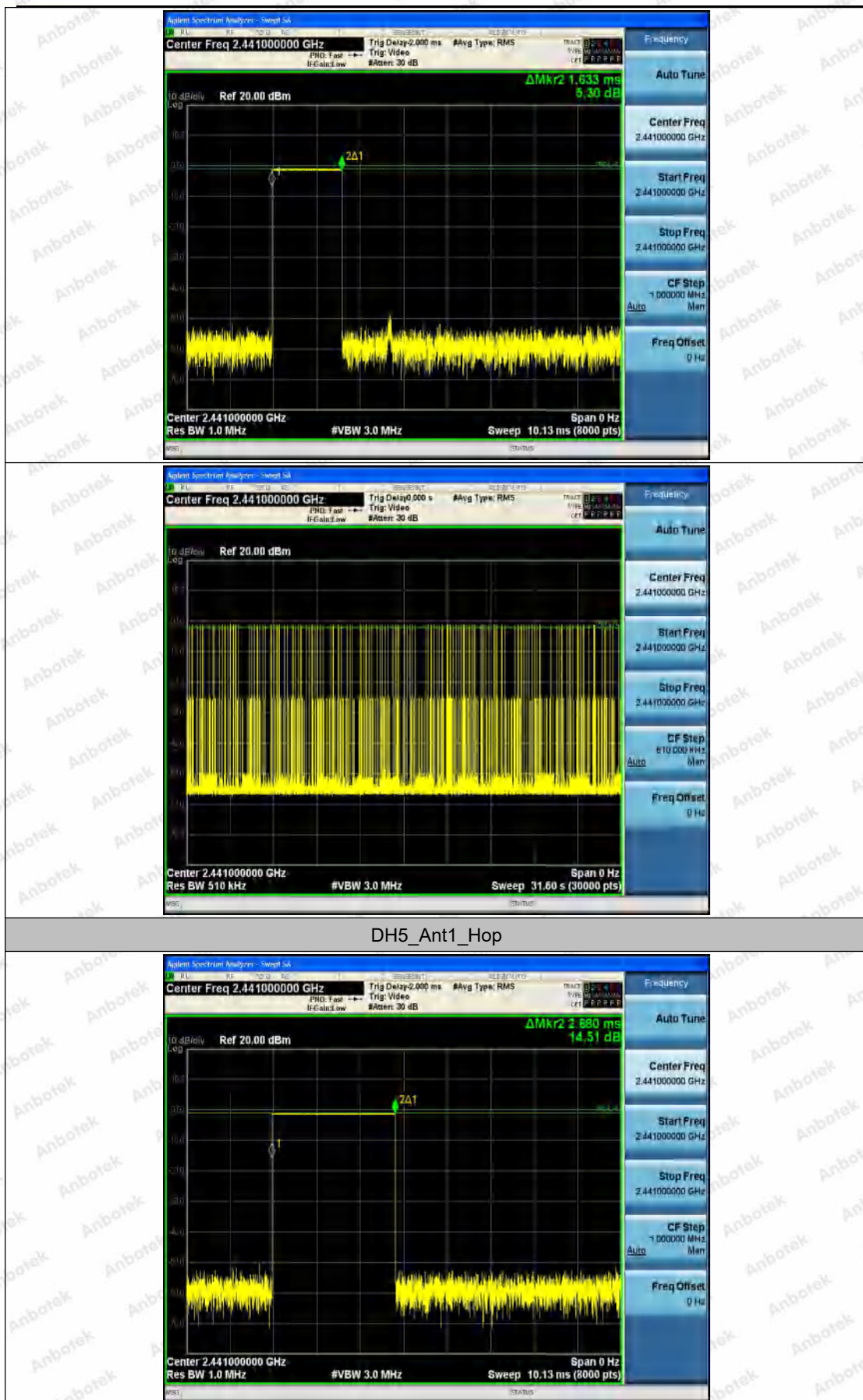


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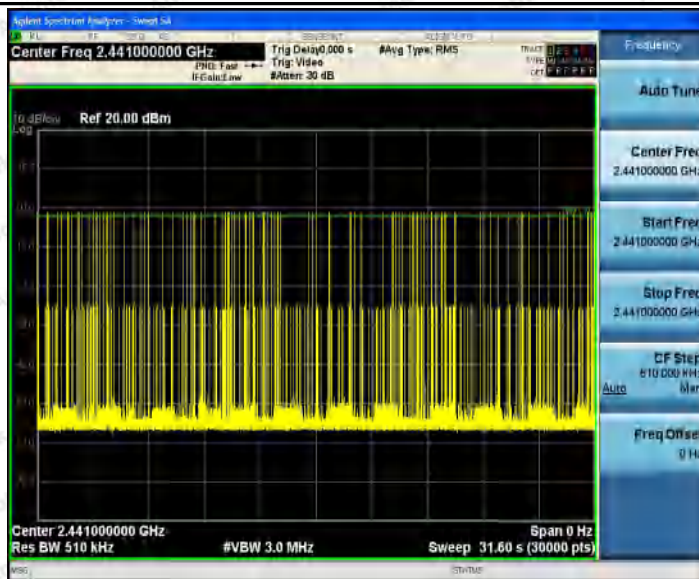


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2DH1_Ant1_Hop



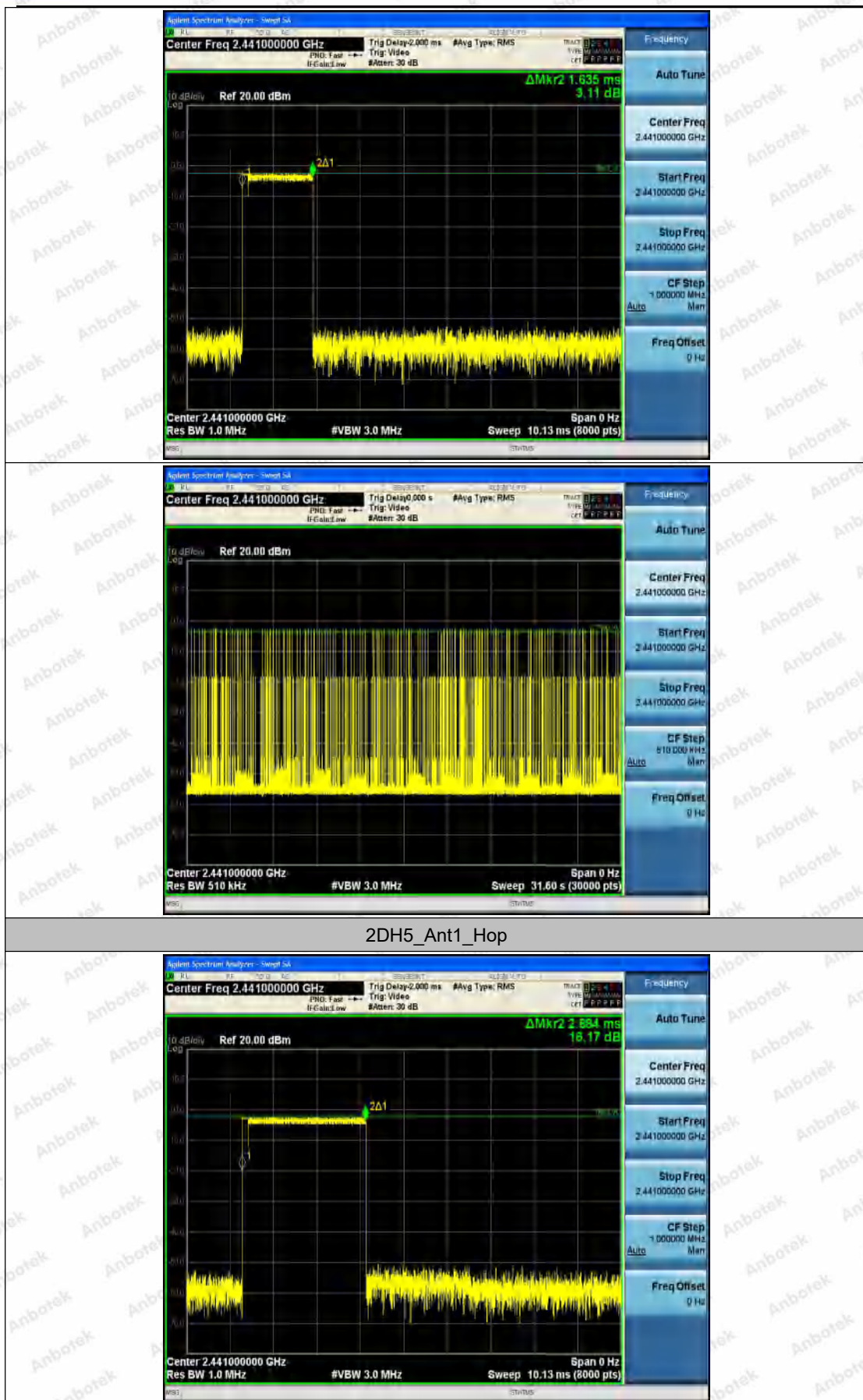
2DH3_Ant1_Hop

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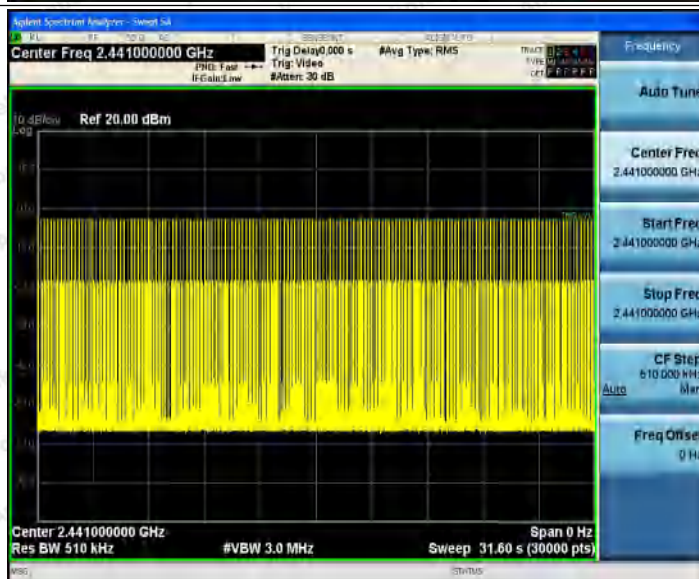
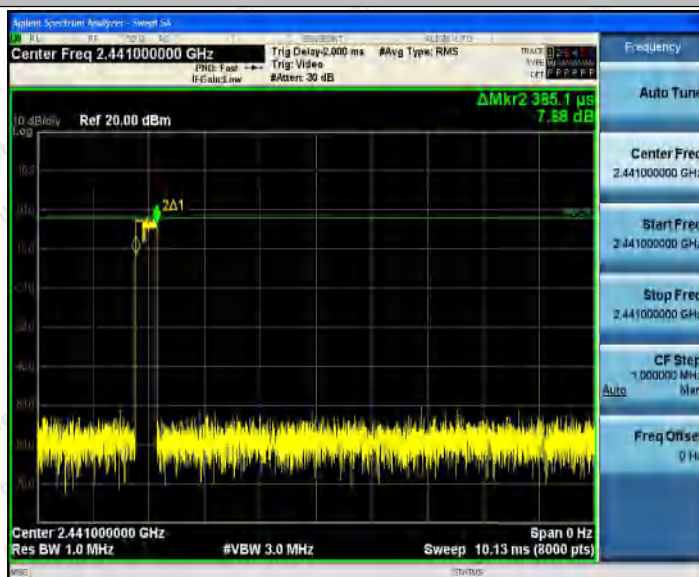
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3DH1_Ant1_Hop



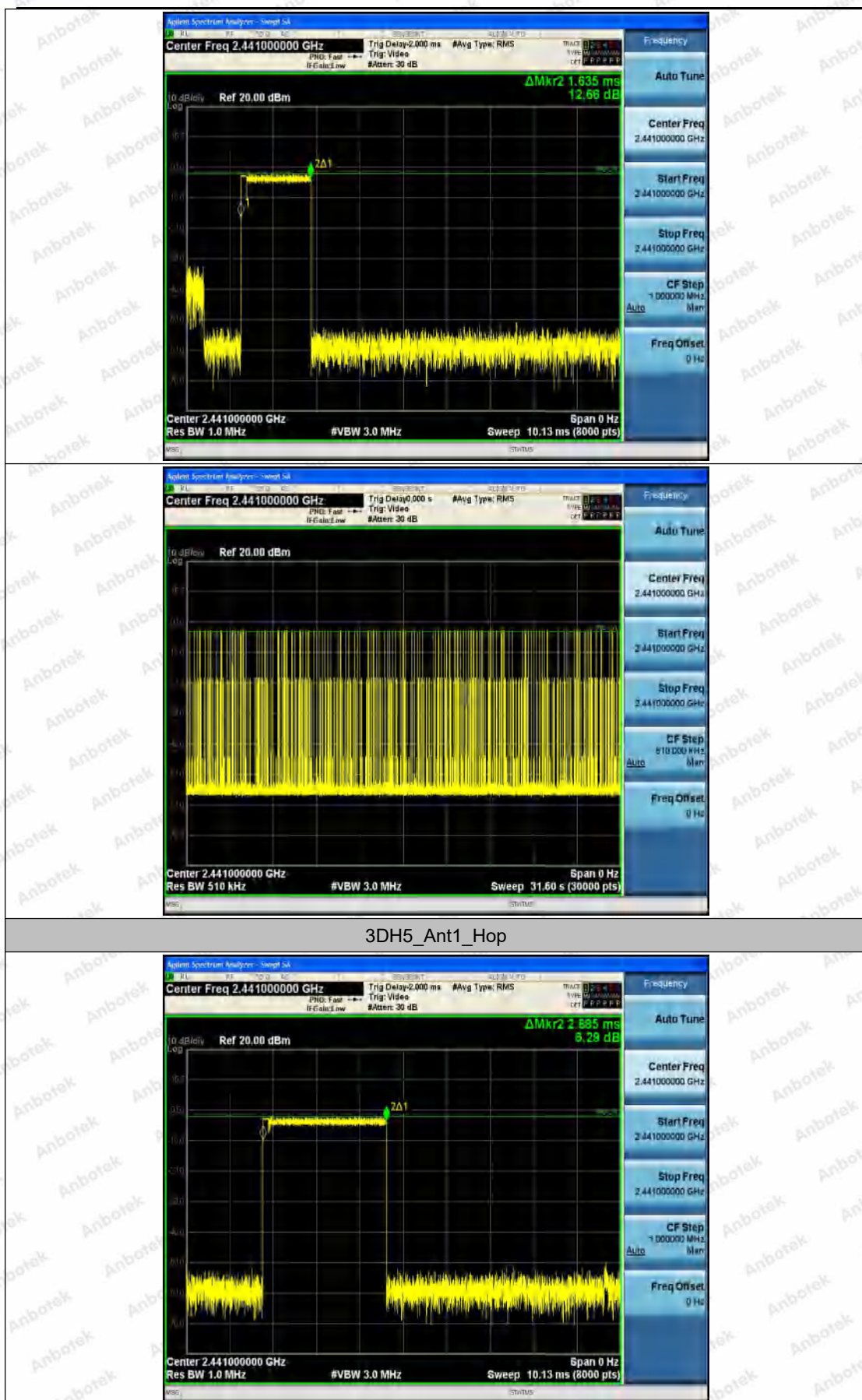
3DH3_Ant1_Hop

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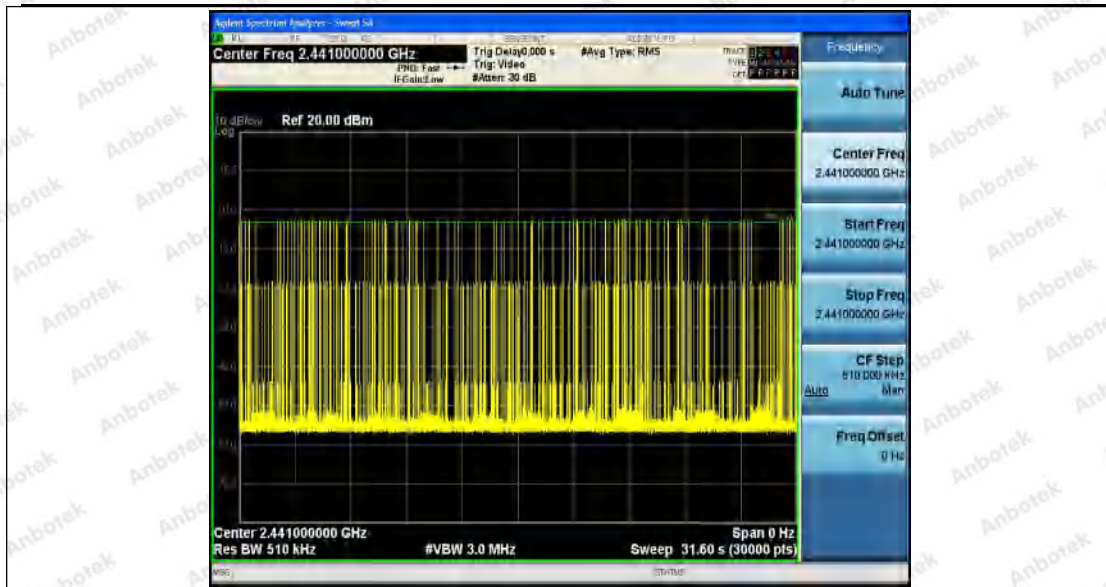


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Appendix F: Number of hopping channels

Test Result

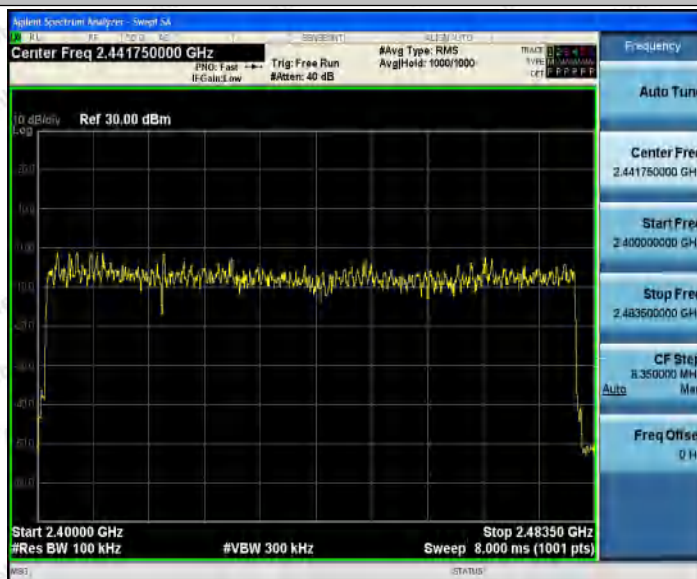
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

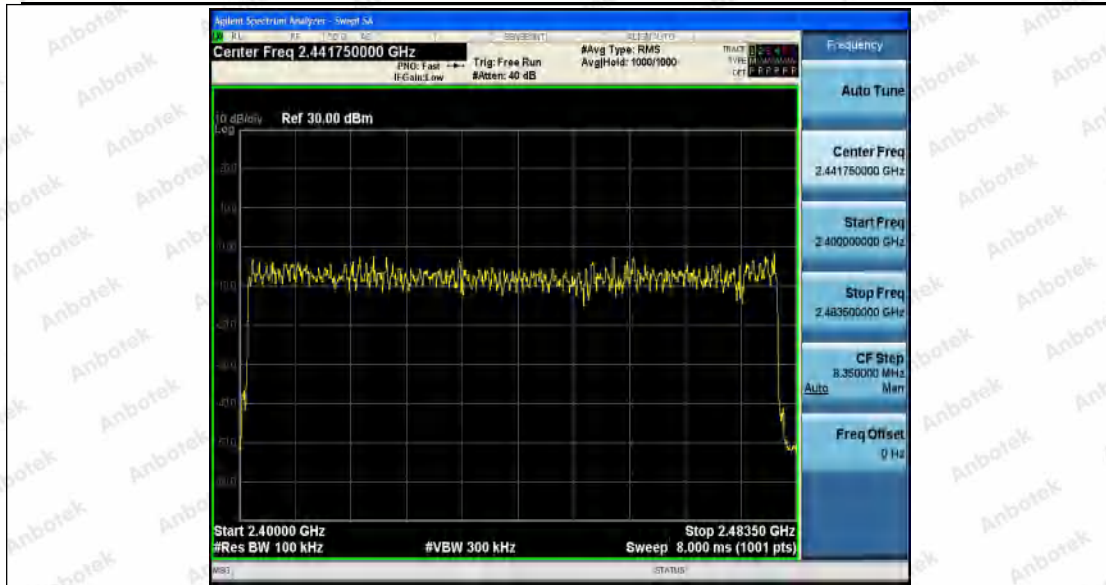
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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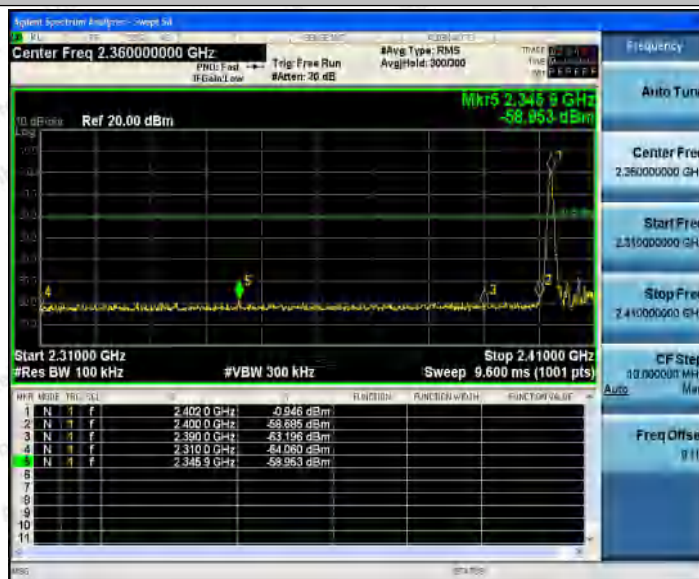
Appendix G: Band edge measurements

Test Result

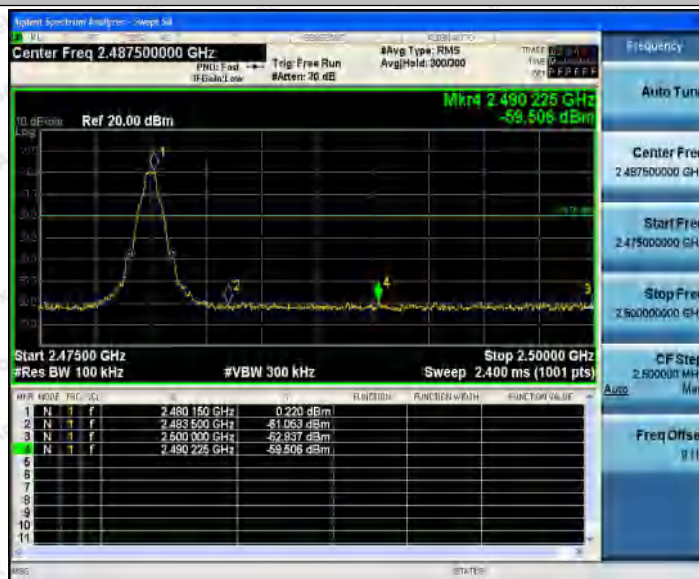
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.95	-58.95	≤-20.95	PASS
		High	2480	0.22	-59.51	≤-19.78	PASS
		Low	Hop	-0.43	-59.6	≤-20.43	PASS
		High	Hop	-0.37	-61.96	≤-20.37	PASS
2DH5	Ant1	Low	2402	-2.27	-51.31	≤-22.27	PASS
		High	2480	-2.17	-59.34	≤-22.17	PASS
		Low	Hop	-3.80	-55.55	≤-23.8	PASS
		High	Hop	-3.18	-62.71	≤-23.18	PASS
3DH5	Ant1	Low	2402	-1.78	-56.58	≤-21.78	PASS
		High	2480	-1.28	-59.25	≤-21.28	PASS
		Low	Hop	-2.96	-59.43	≤-22.96	PASS
		High	Hop	-3.93	-60.84	≤-23.93	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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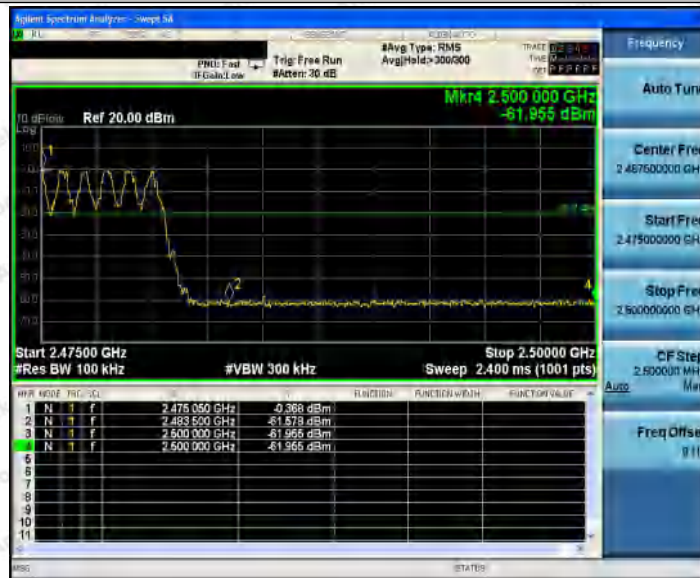
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



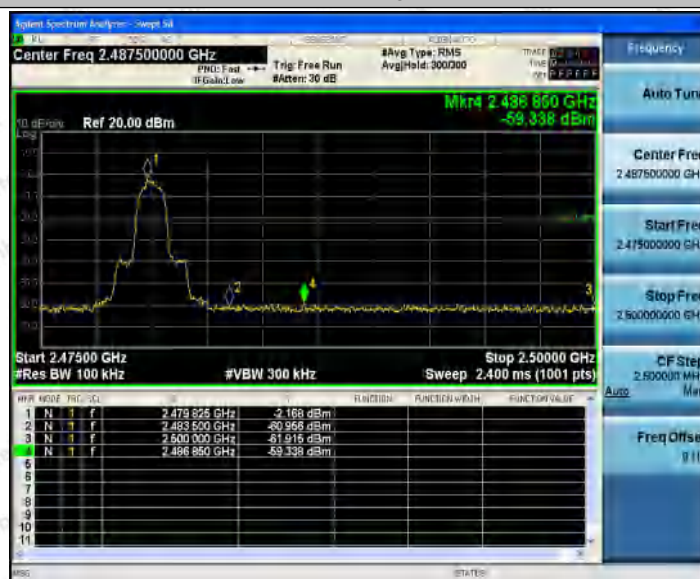
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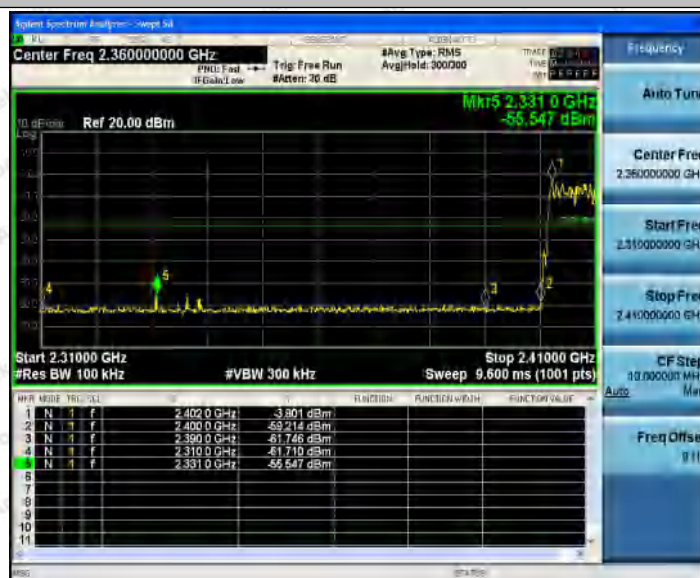
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2DH5_Ant1_High_2480



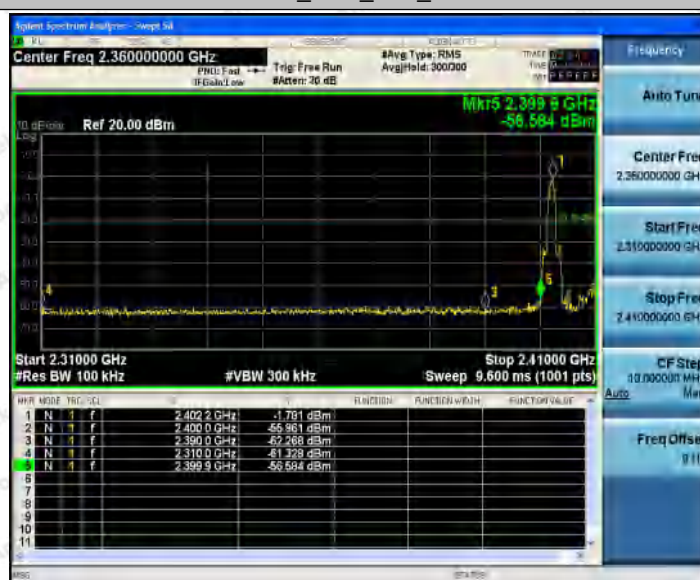
2DH5_Ant1_Low_Hop



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

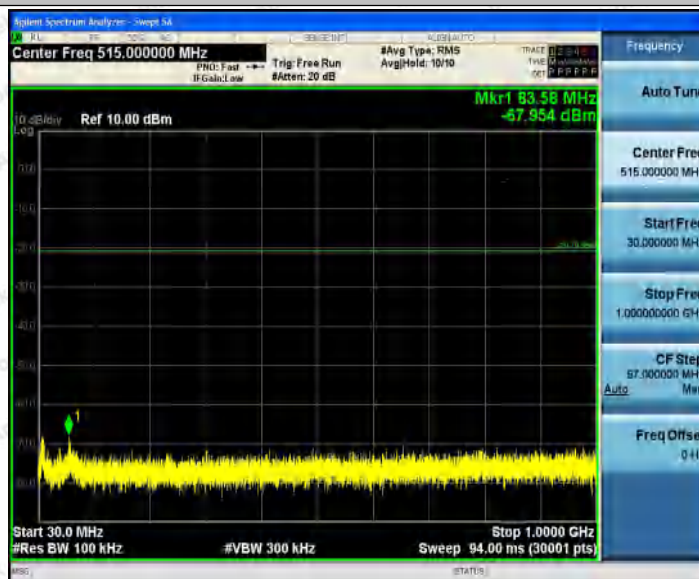
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-67.95	≤-20.79	PASS
			1000~26500	-0.79	-44.76	≤-20.79	PASS
		2441	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-70.33	≤-21.88	PASS
			1000~26500	-1.88	-46.38	≤-21.88	PASS
		2480	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-58.57	≤-20.29	PASS
			1000~26500	-0.29	-49.83	≤-20.29	PASS
2DH5	Ant1	2402	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-70.41	≤-21.36	PASS
			1000~26500	-1.36	-48	≤-21.36	PASS
		2441	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-70.25	≤-22.8	PASS
			1000~26500	-2.80	-50.82	≤-22.8	PASS
		2480	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-70.3	≤-21.25	PASS
			1000~26500	-1.25	-55.09	≤-21.25	PASS
3DH5	Ant1	2402	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-70.4	≤-22.14	PASS
			1000~26500	-2.14	-46.12	≤-22.14	PASS
		2441	Reference	-3.34	-3.34	---	PASS
			30~1000	-3.34	-70.45	≤-23.34	PASS
			1000~26500	-3.34	-49.87	≤-23.34	PASS
		2480	Reference	-1.26	-1.26	---	PASS
			30~1000	-1.26	-70.42	≤-21.26	PASS
			1000~26500	-1.26	-50.71	≤-21.26	PASS

Test Graphs

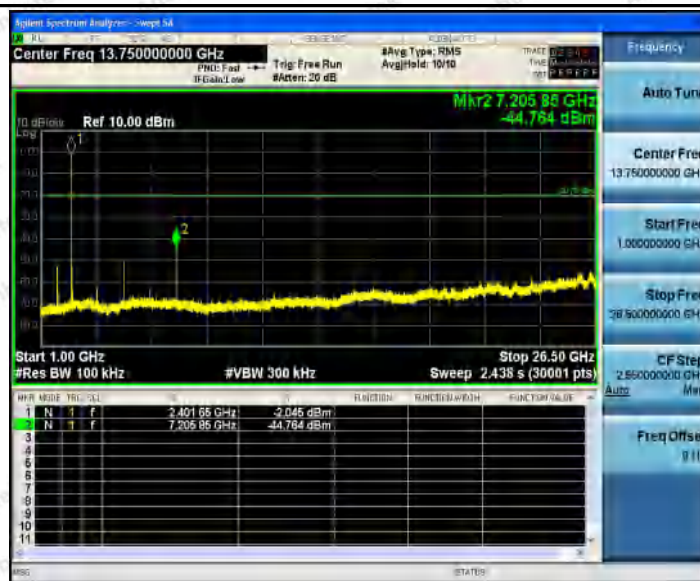
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



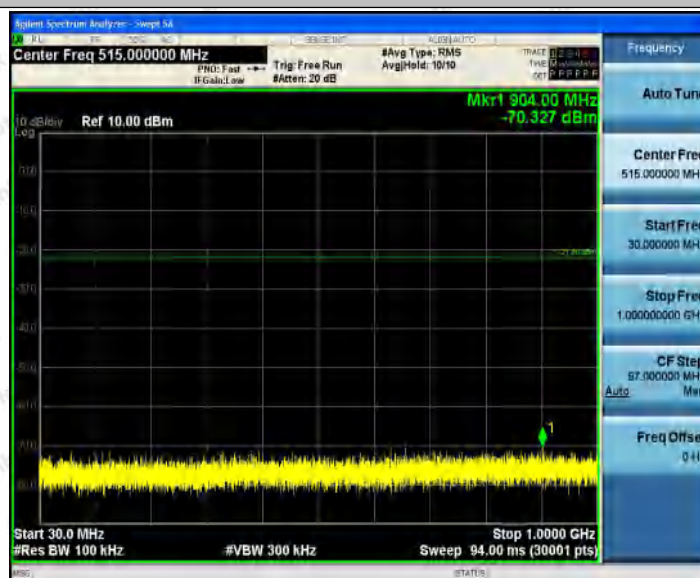
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



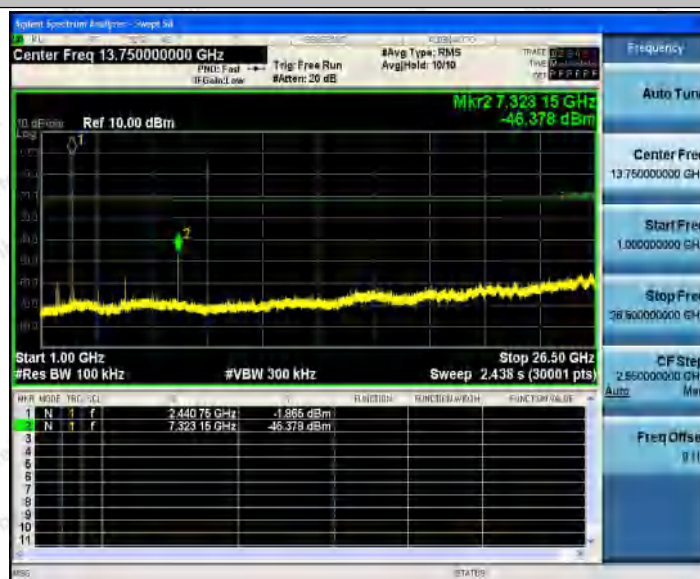
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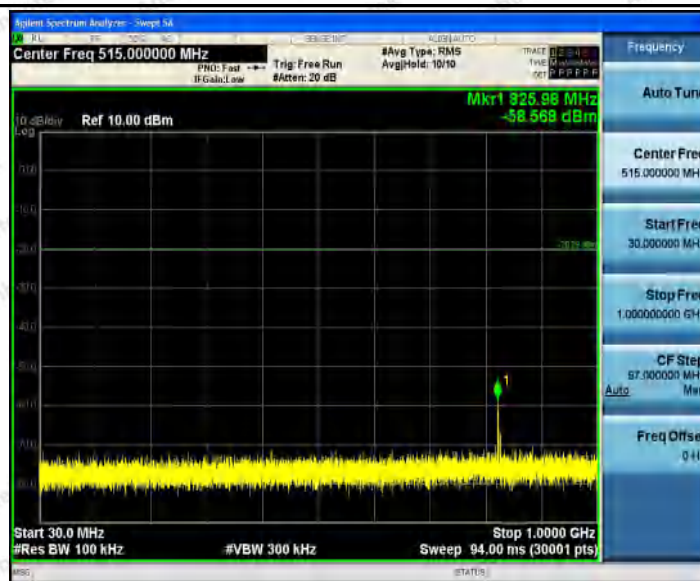
DH5_Ant1_2441_1000~26500



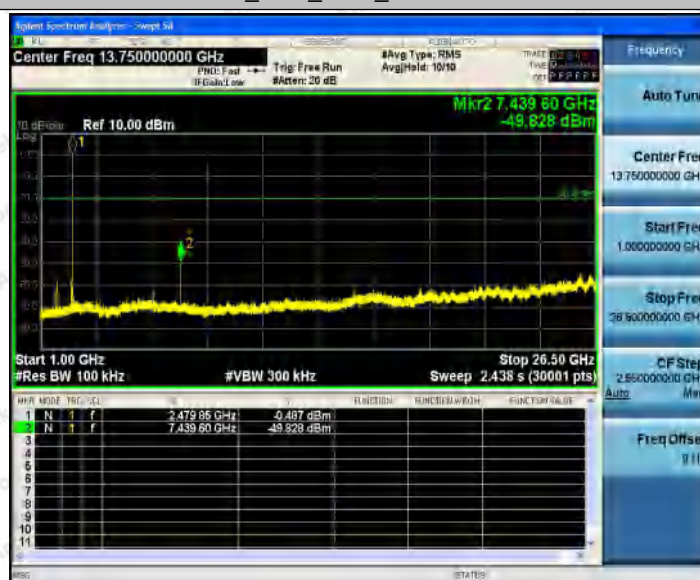
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

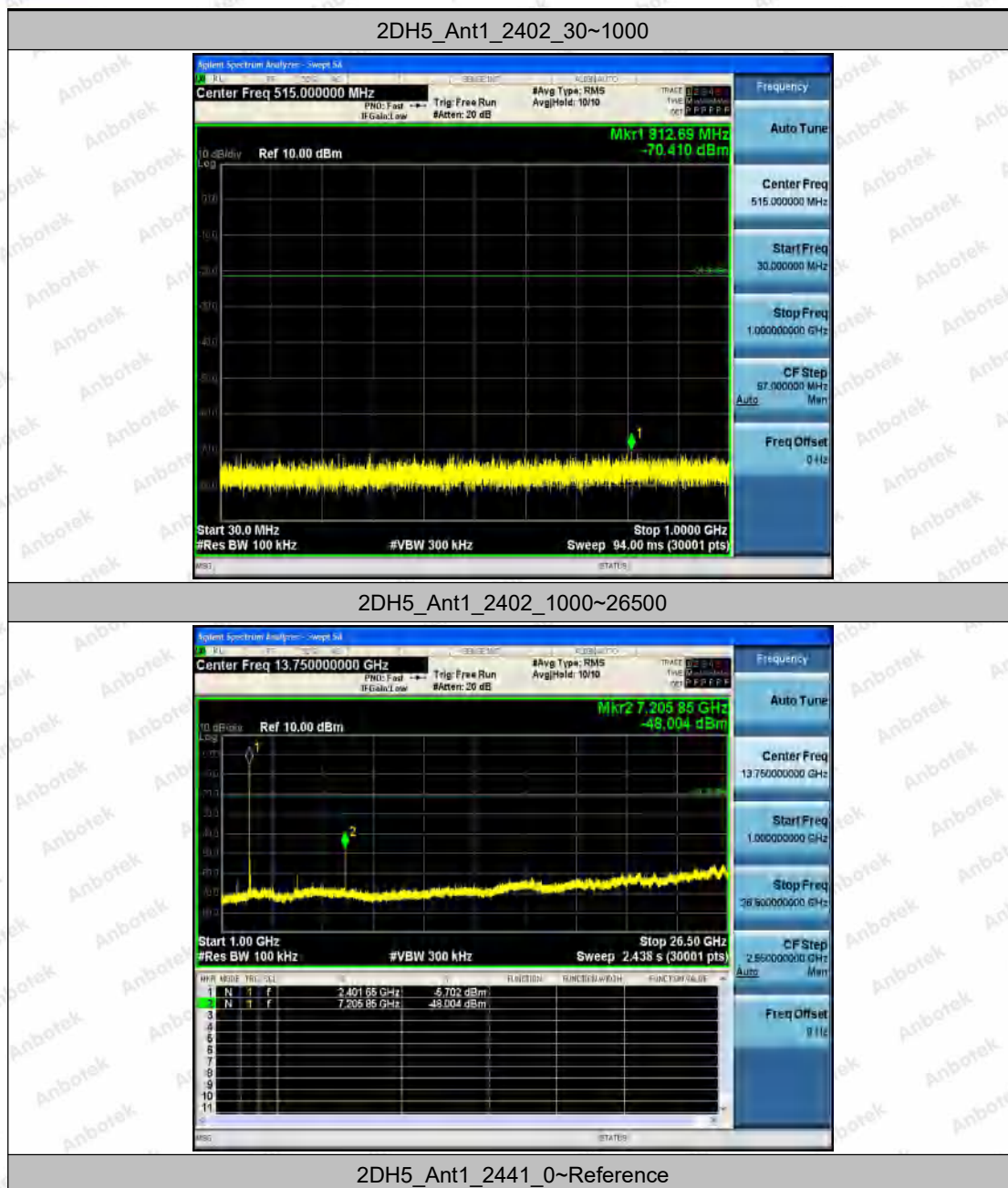


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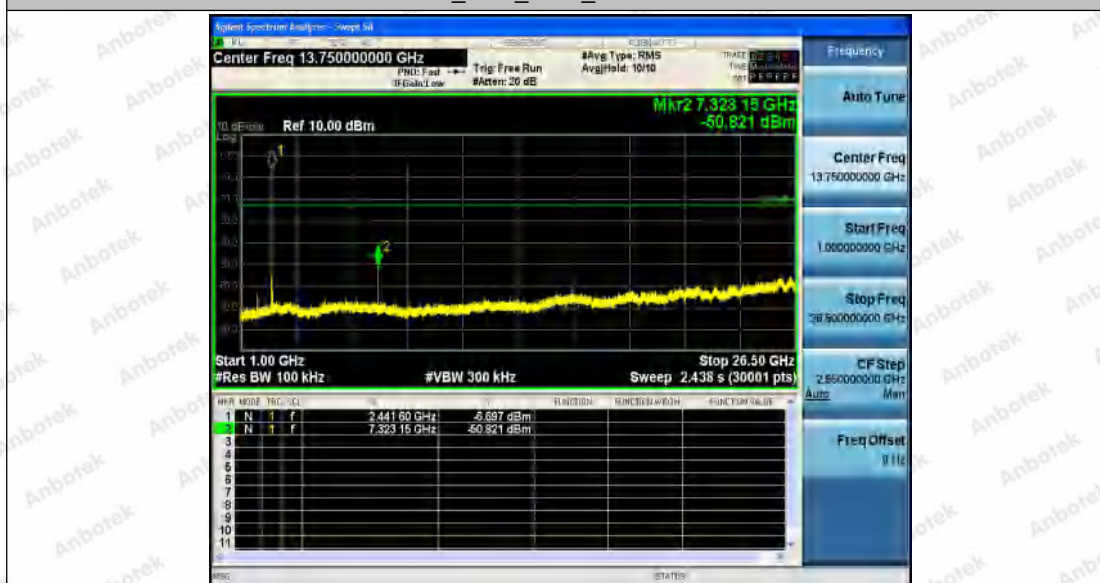




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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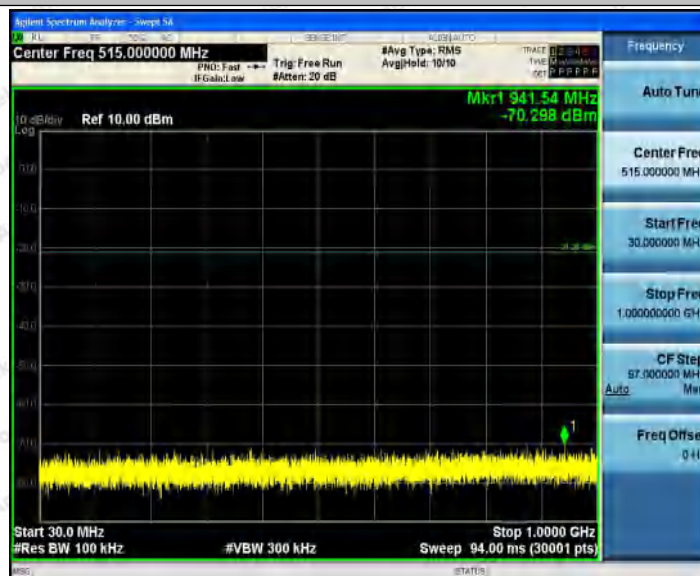
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



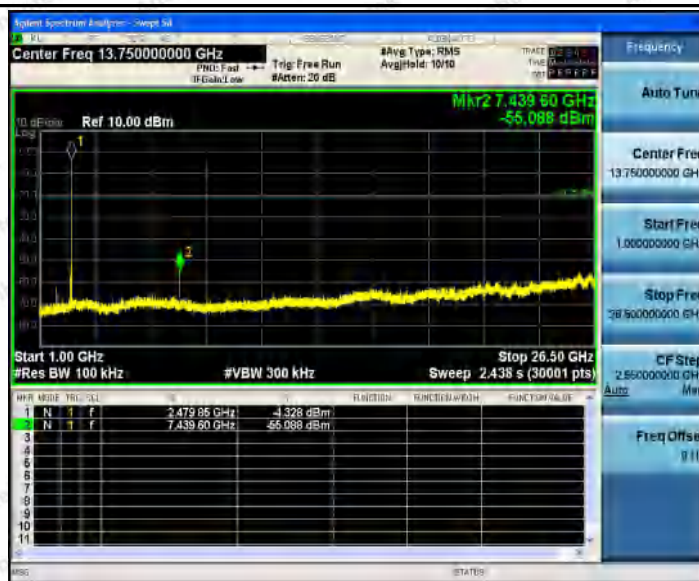
2DH5_Ant1_2480_1000~26500

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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



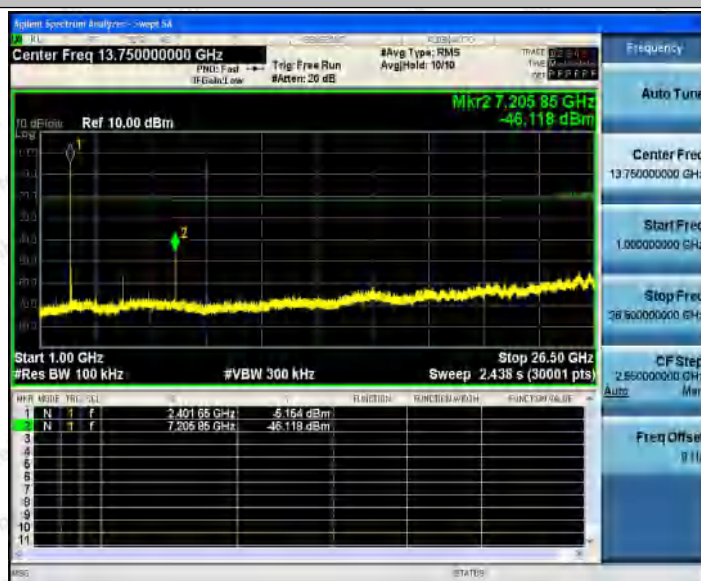
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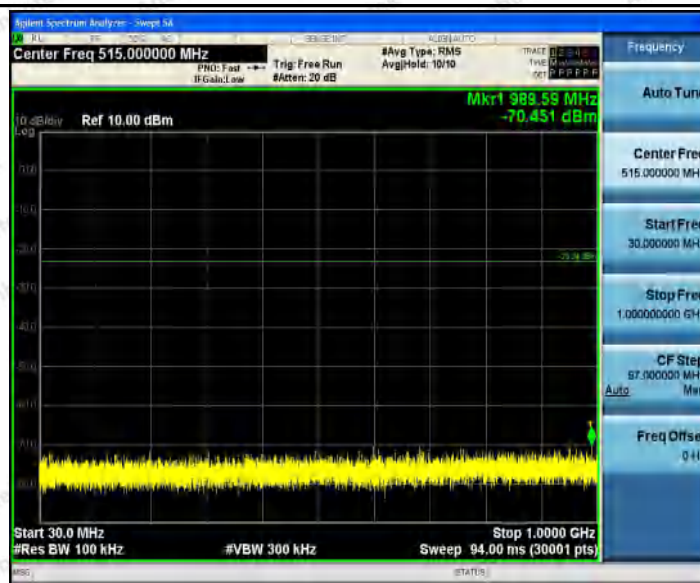
3DH5_Ant1_2402_1000~26500



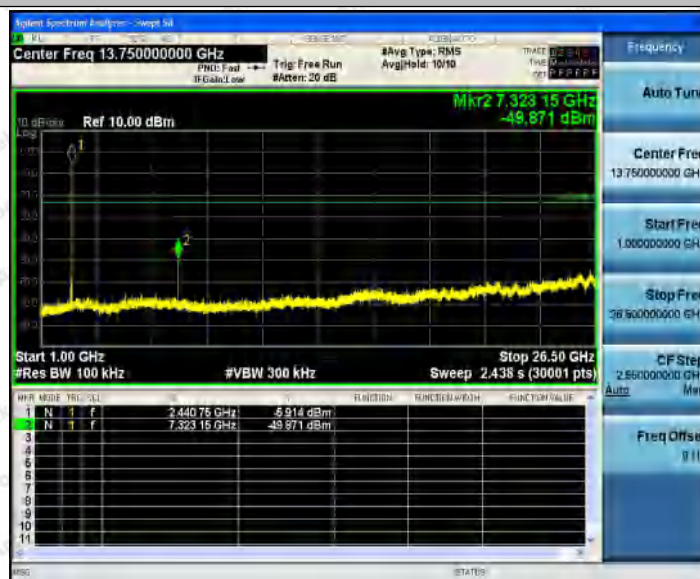
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

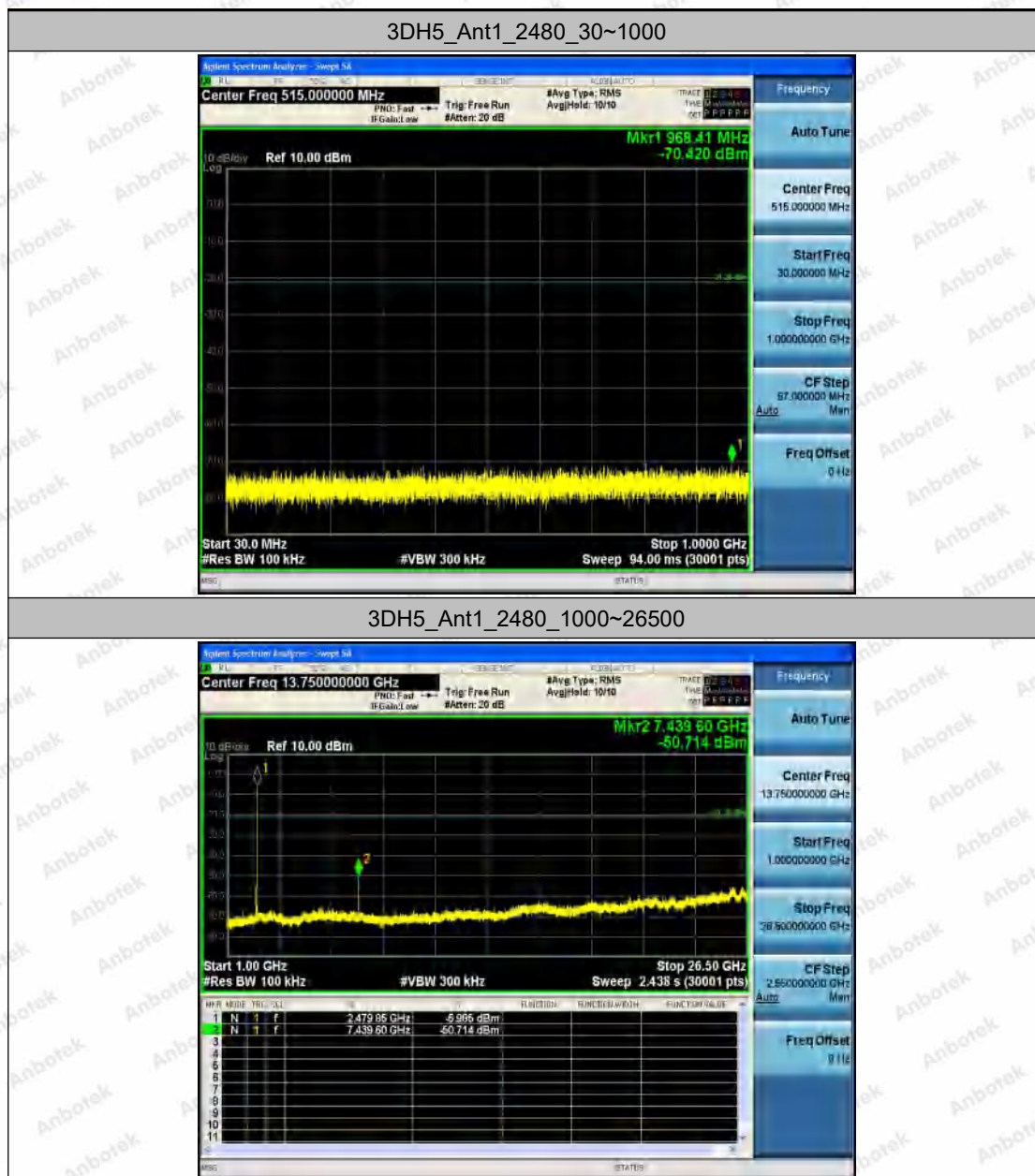


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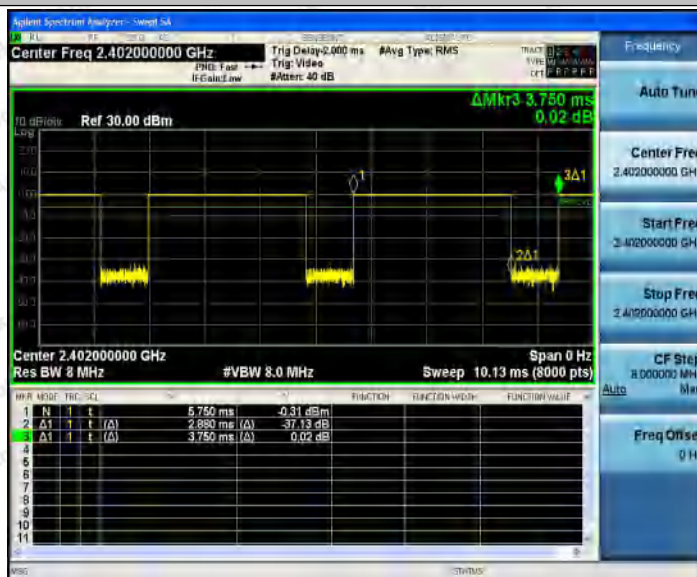
Appendix I: Duty Cycle

Test Result

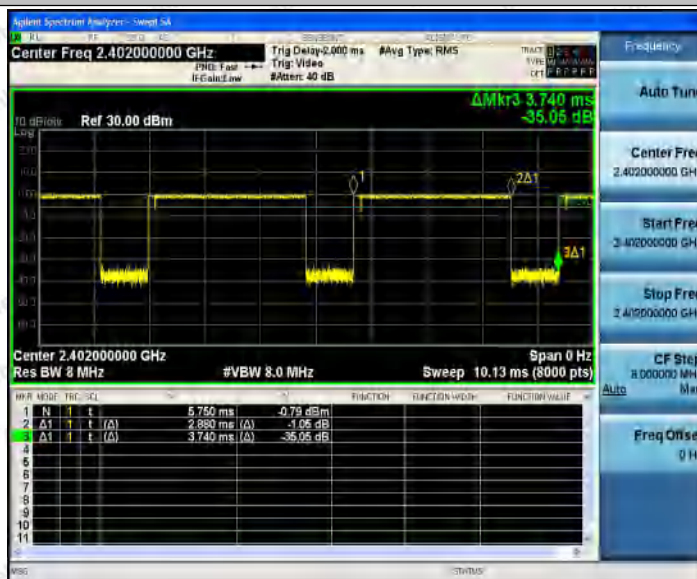
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---