

Appendix Test Data

Report No.:	18220WC10199601	Test Date:	2021.9.2
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	1.146	2401.415	2402.561	---	PASS
		2441	1.137	2440.430	2441.567	---	PASS
		2480	1.119	2479.442	2480.561	---	PASS
2DH5	Ant1	2402	1.386	2401.298	2402.684	---	PASS
		2441	1.356	2440.316	2441.672	---	PASS
		2480	1.353	2479.313	2480.666	---	PASS
3DH5	Ant1	2402	1.377	2401.310	2402.687	---	PASS
		2441	1.371	2440.310	2441.681	---	PASS
		2480	1.350	2479.325	2480.675	---	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	0.89330	2401.54 8	2402.441	---	PASS
		2441	0.89767	2440.54 7	2441.444	---	PASS
		2480	0.90207	2479.54 5	2480.447	---	PASS
2DH5	Ant1	2402	1.2039	2401.39 1	2402.595	---	PASS
		2441	1.1943	2440.39 6	2441.591	---	PASS
		2480	1.1927	2479.39 6	2480.589	---	PASS
3DH5	Ant1	2402	1.2112	2401.38 0	2402.591	---	PASS
		2441	1.2008	2440.38 6	2441.587	---	PASS
		2480	1.1978	2479.38 8	2480.586	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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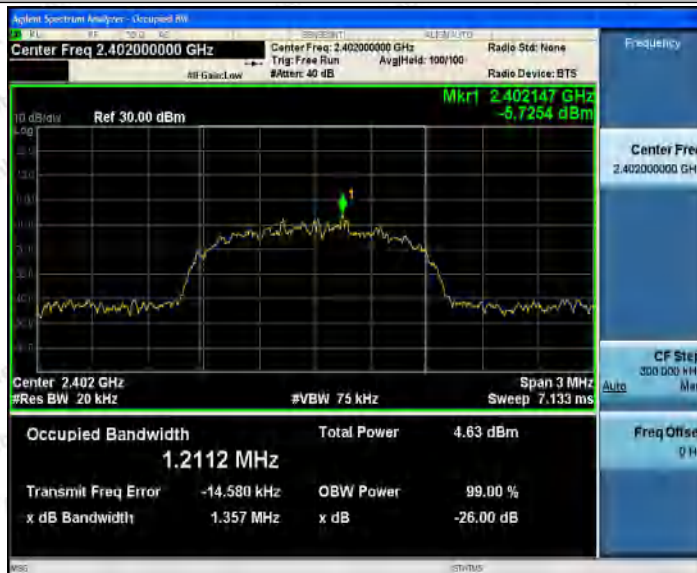
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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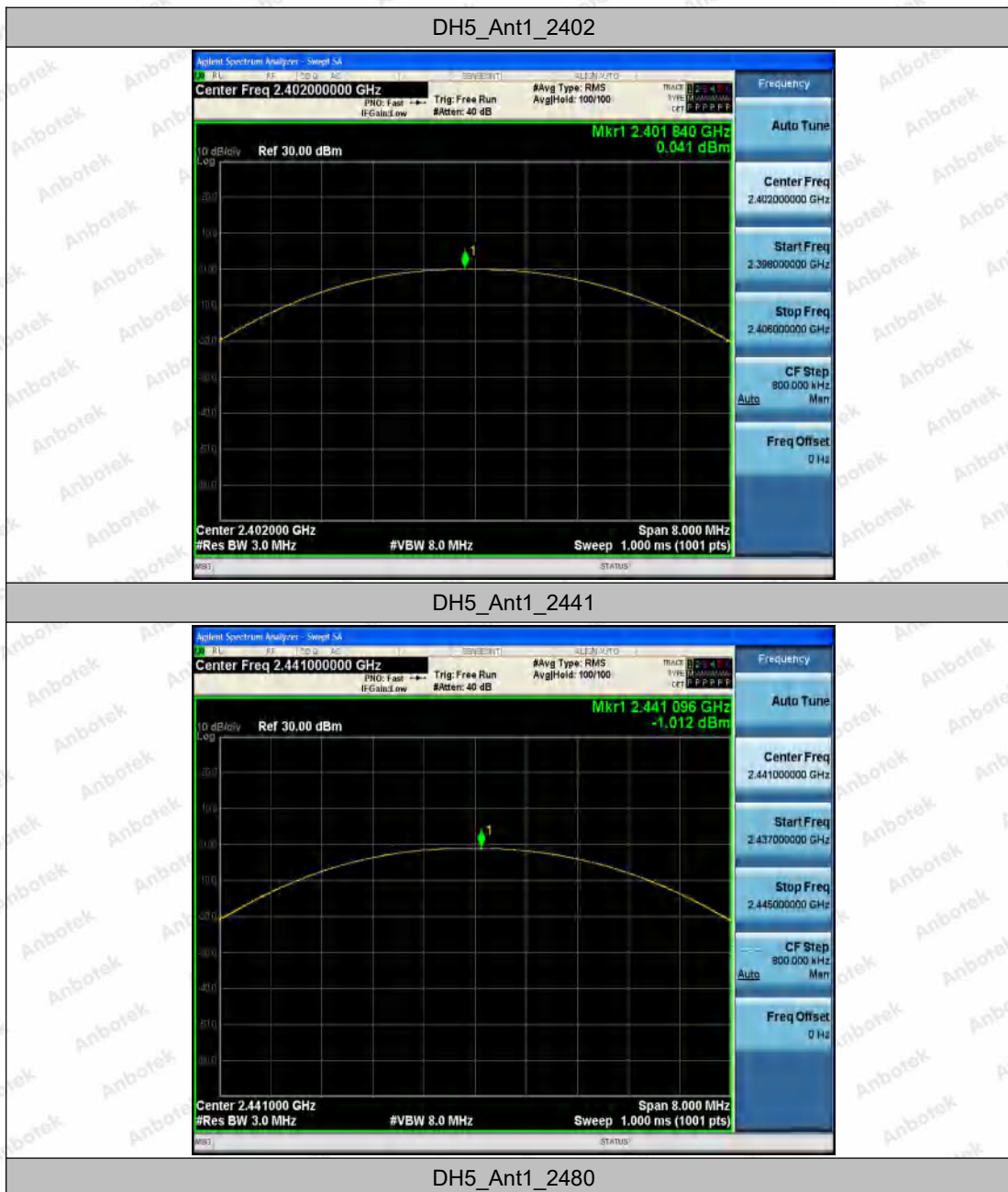
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.04	≤30	PASS
		2441	-1.01	≤30	PASS
		2480	1.47	≤30	PASS
2DH5	Ant1	2402	-0.66	≤20.97	PASS
		2441	-1.7	≤20.97	PASS
		2480	0.47	≤20.97	PASS
3DH5	Ant1	2402	-0.47	≤20.97	PASS
		2441	-1.63	≤20.97	PASS
		2480	0.64	≤20.97	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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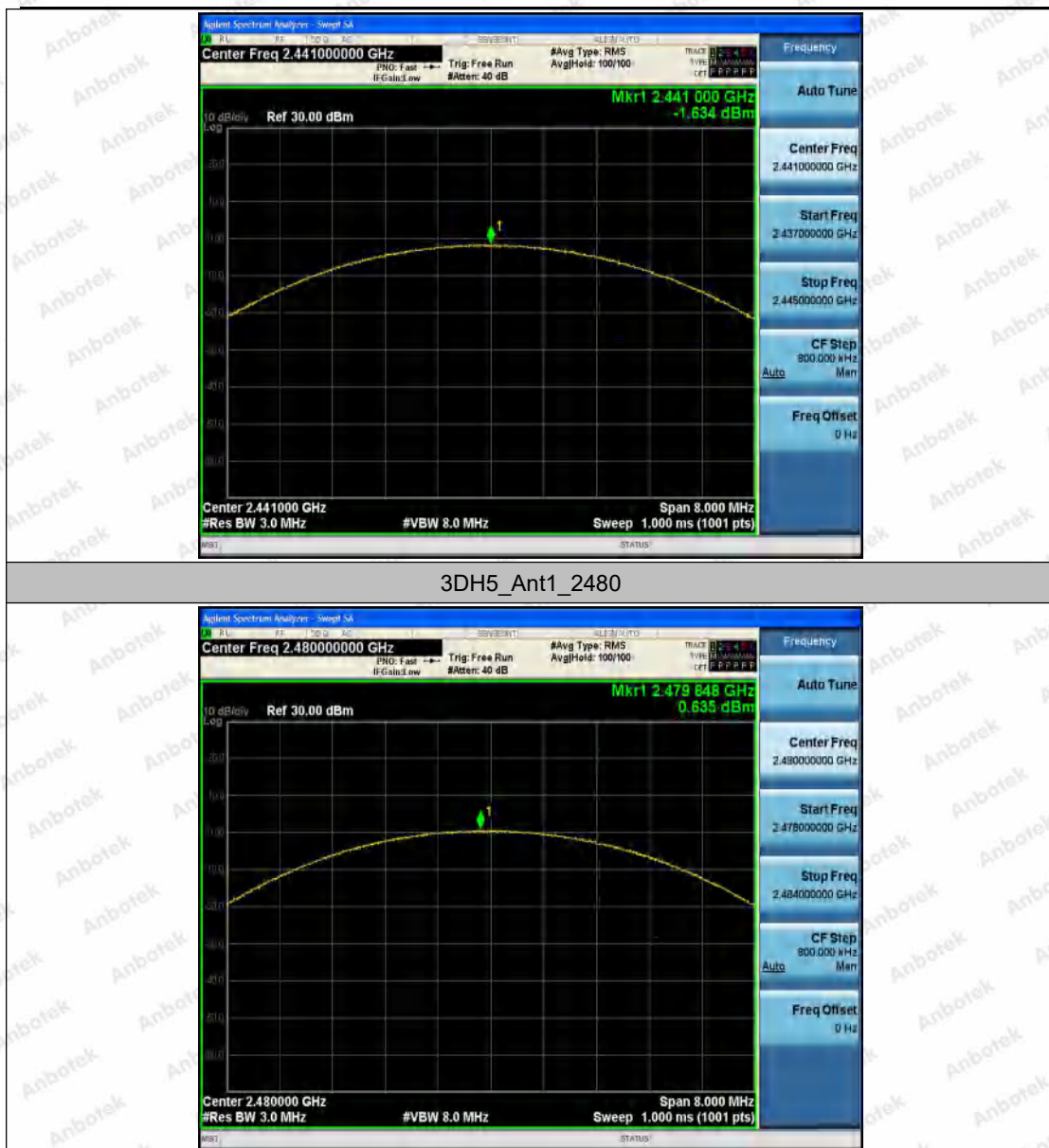
2DH5_Ant1_2480



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	1.052	≥ 0.764	PASS
2DH5	Ant1	Hop	0.984	≥ 0.924	PASS
3DH5	Ant1	Hop	1.052	≥ 0.918	PASS

Test Graphs





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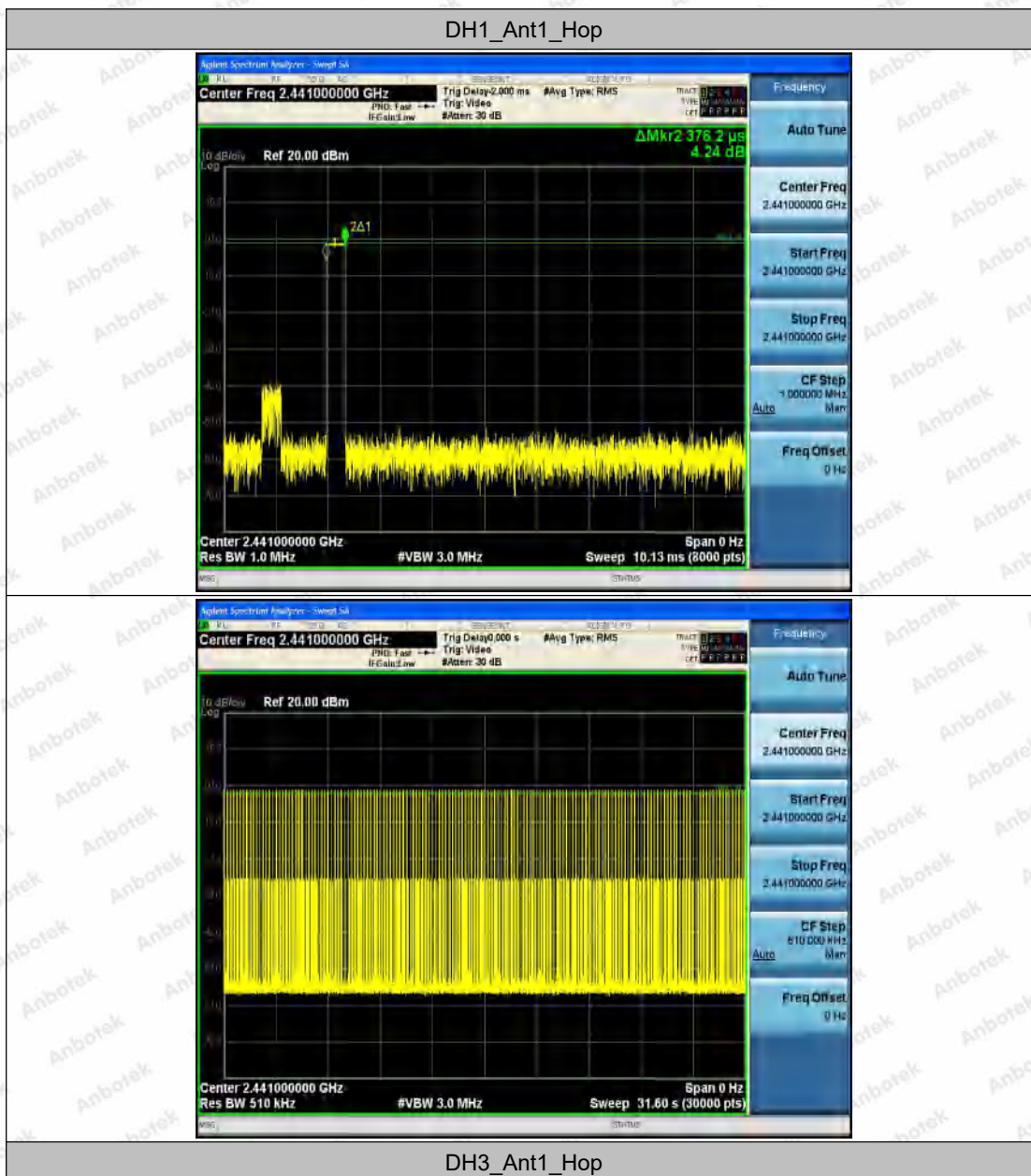
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	114	0.328	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	108	0.312	≤0.4	PASS

Test Graphs





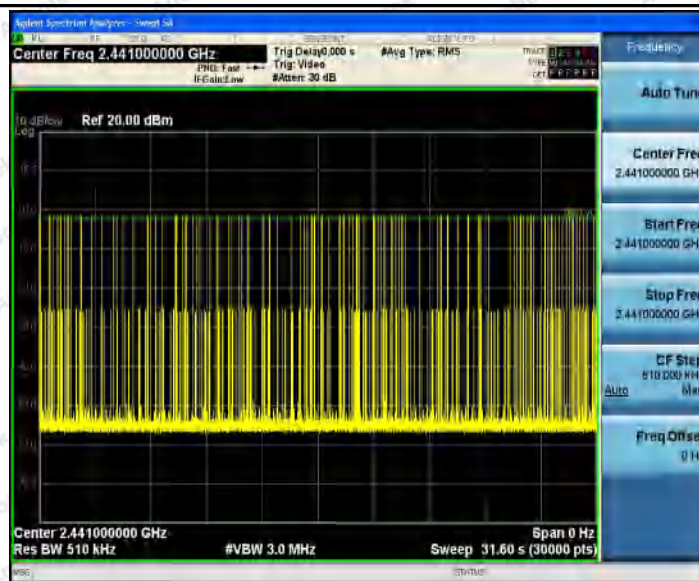
DH5_Ant1_Hop

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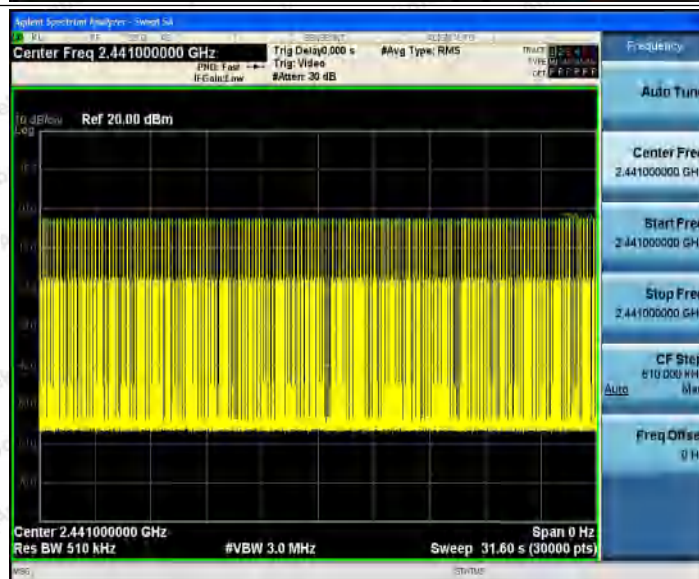
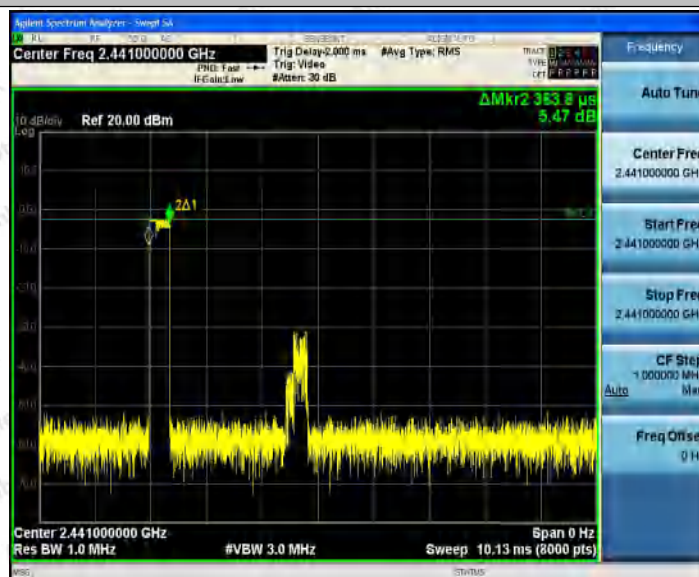
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2DH1_Ant1_Hop



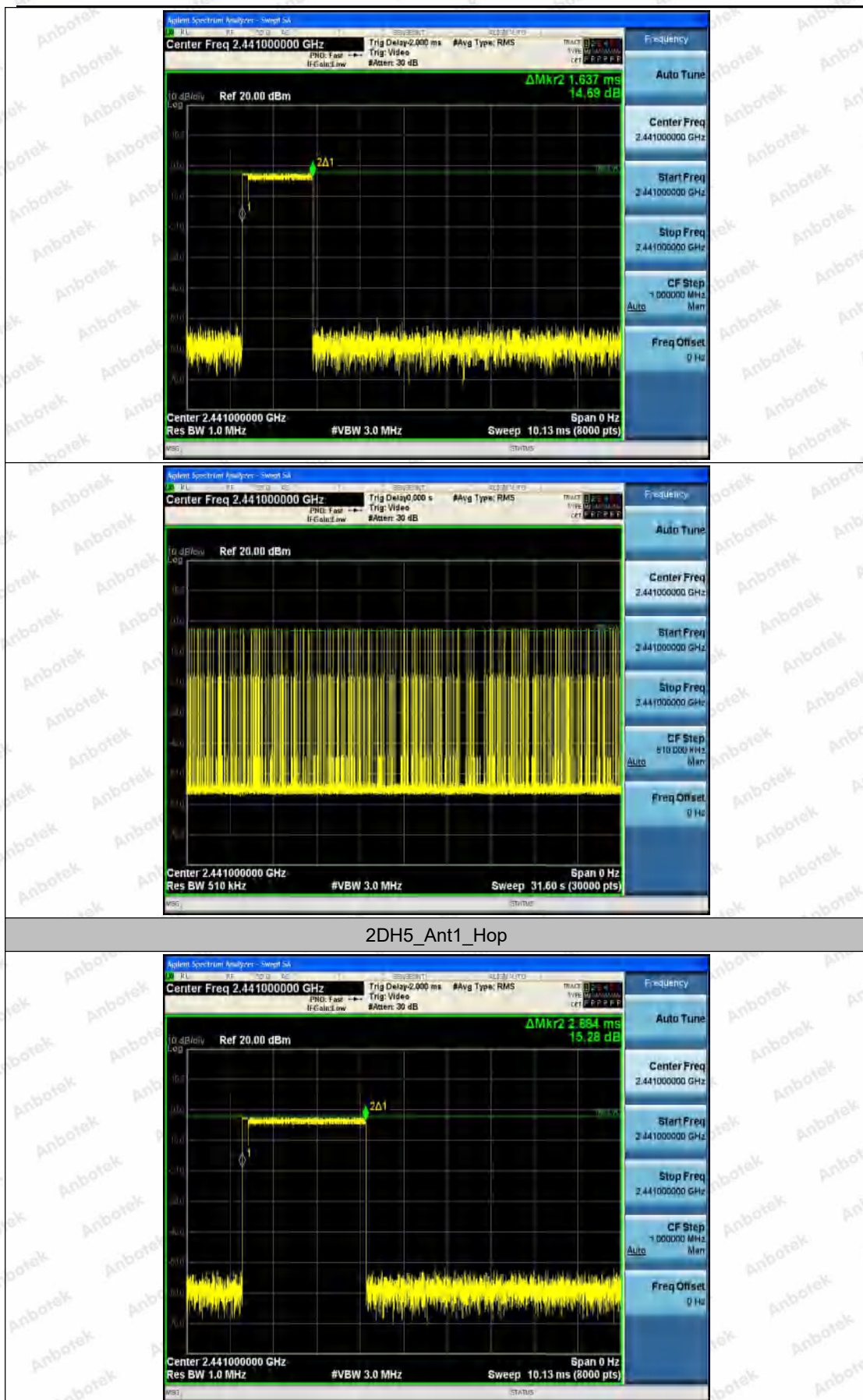
2DH3_Ant1_Hop

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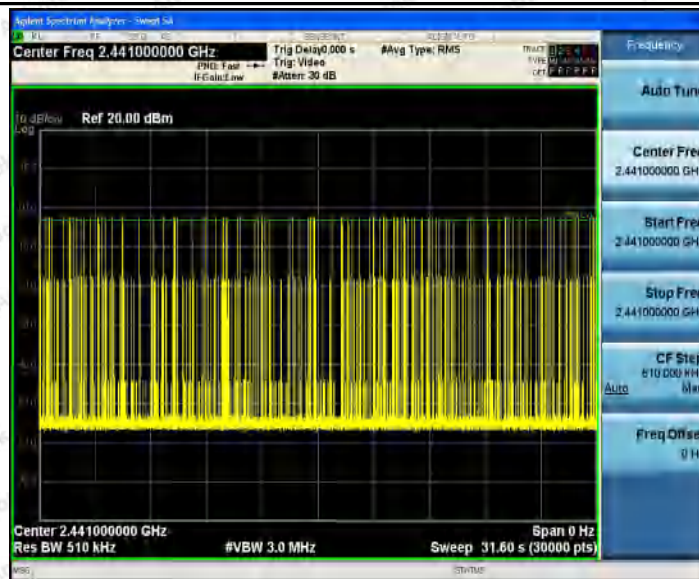


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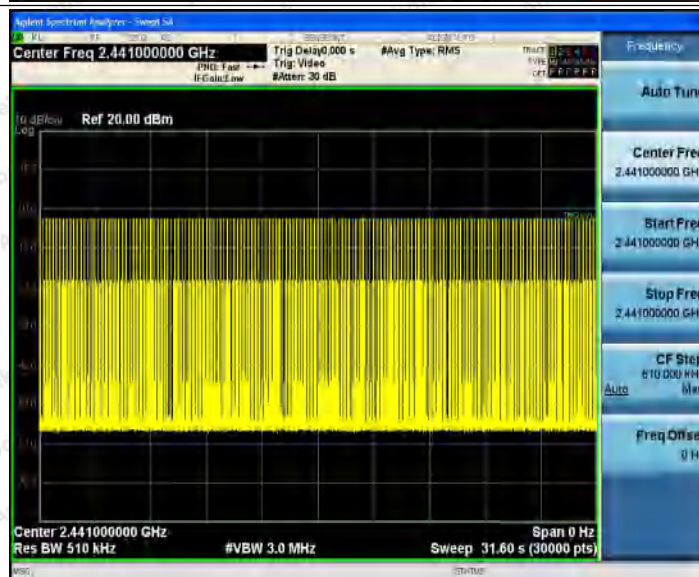
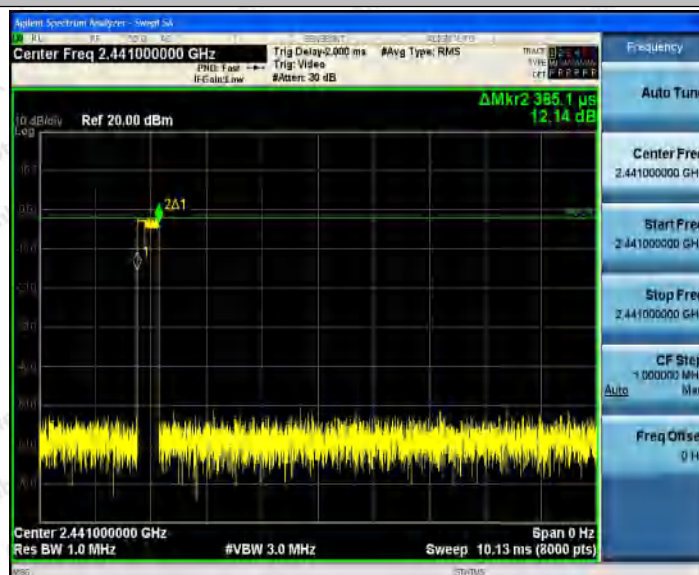
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3DH1_Ant1_Hop



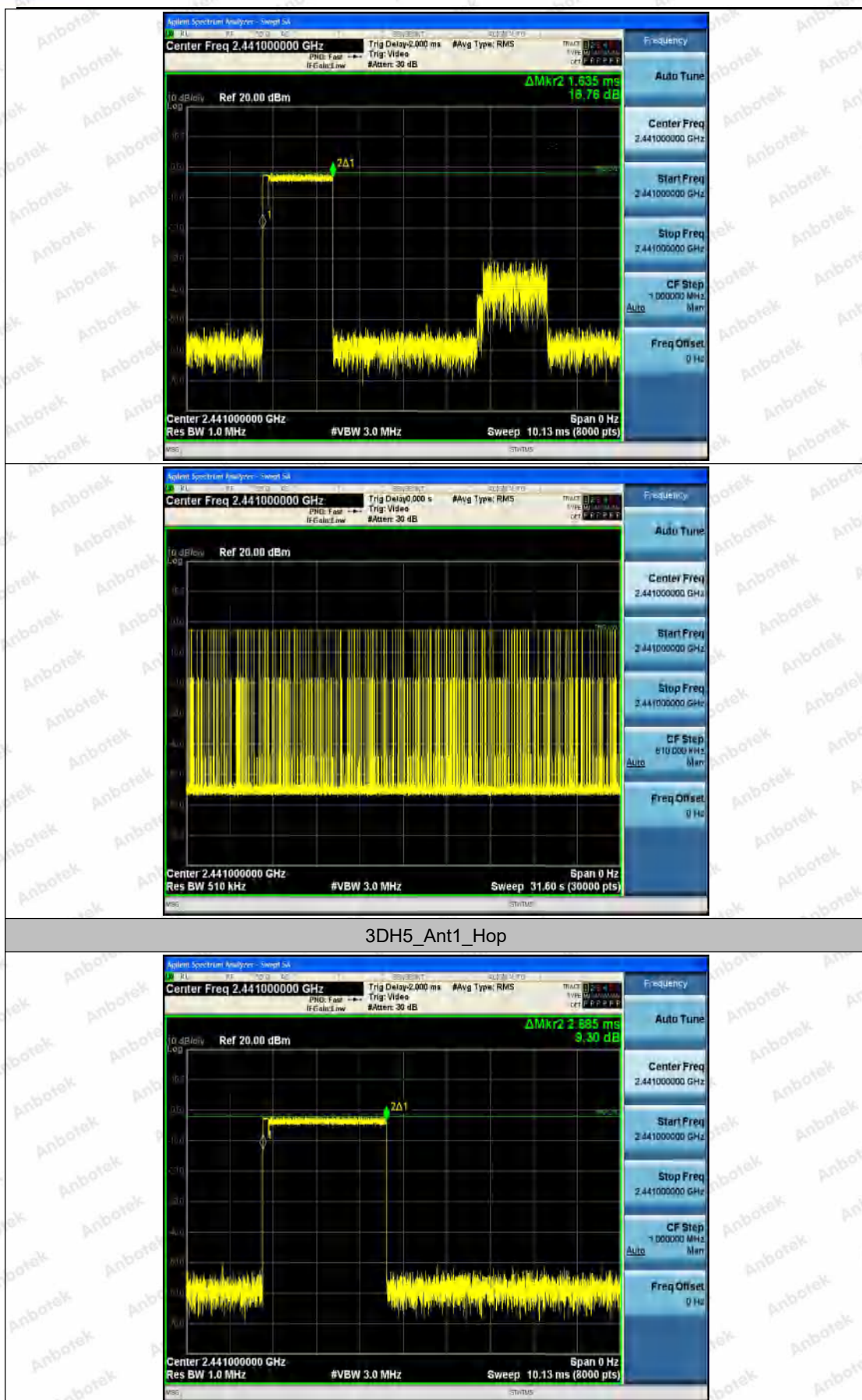
3DH3_Ant1_Hop

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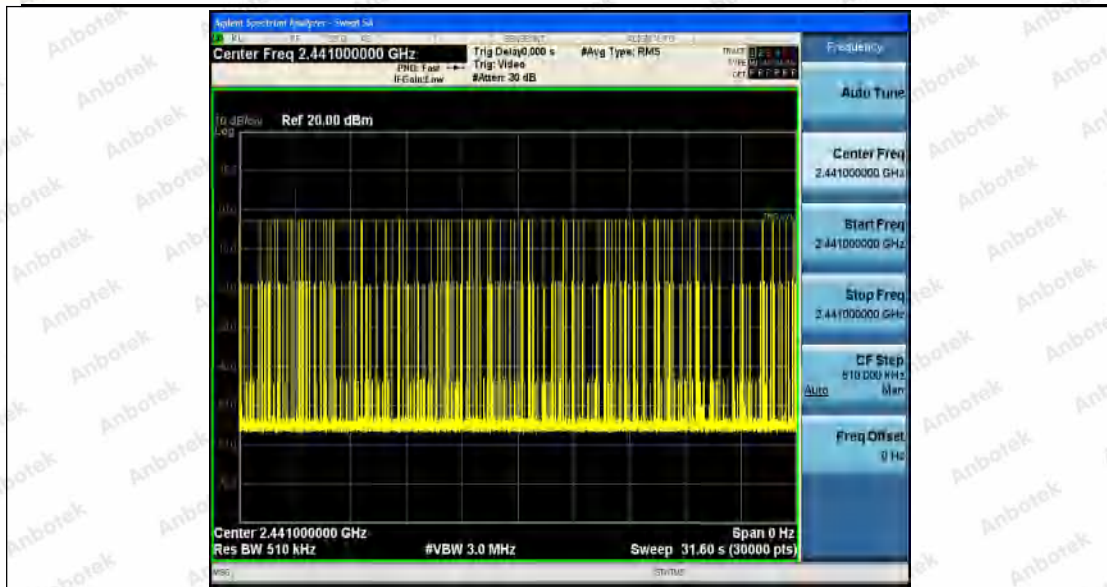


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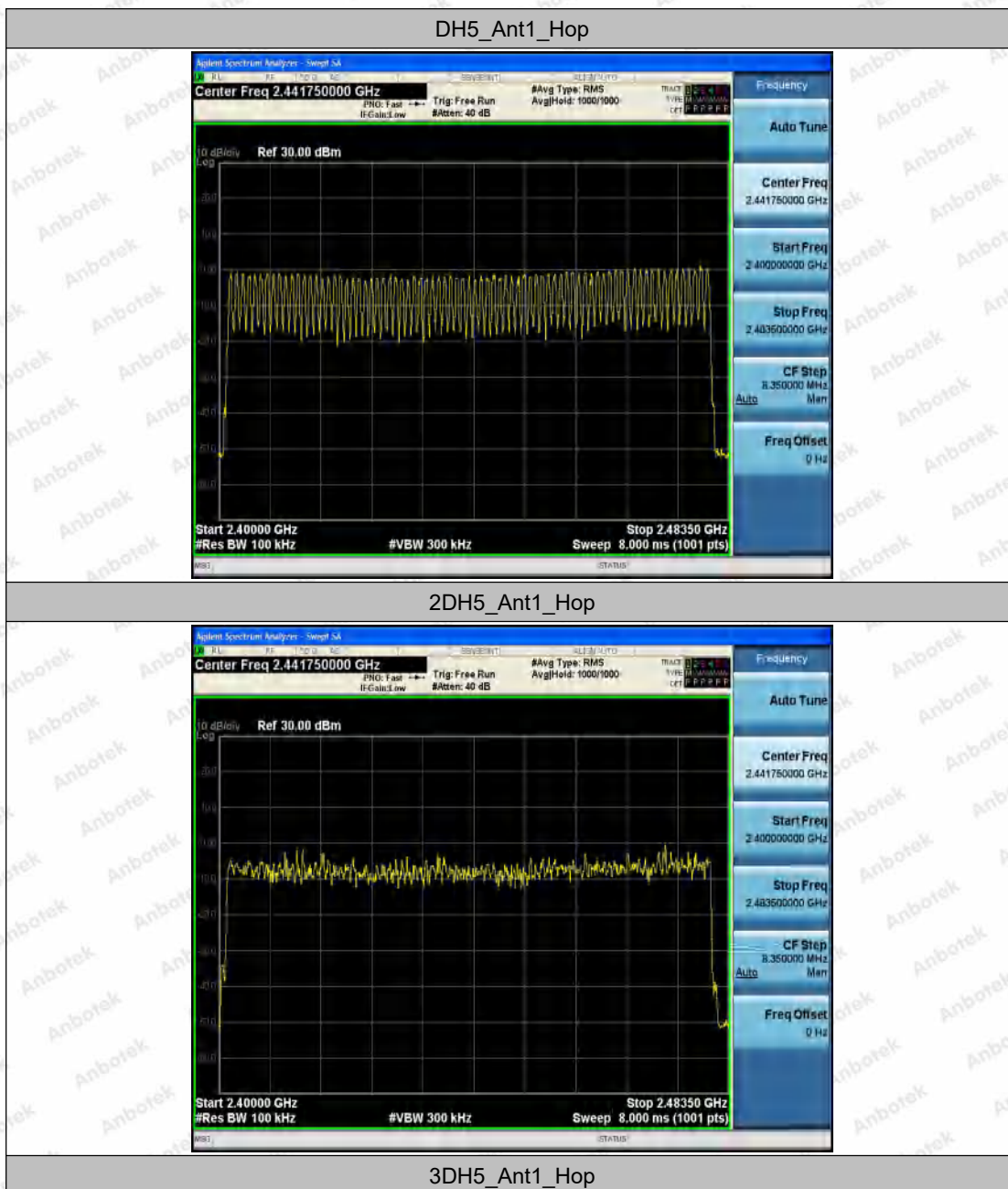
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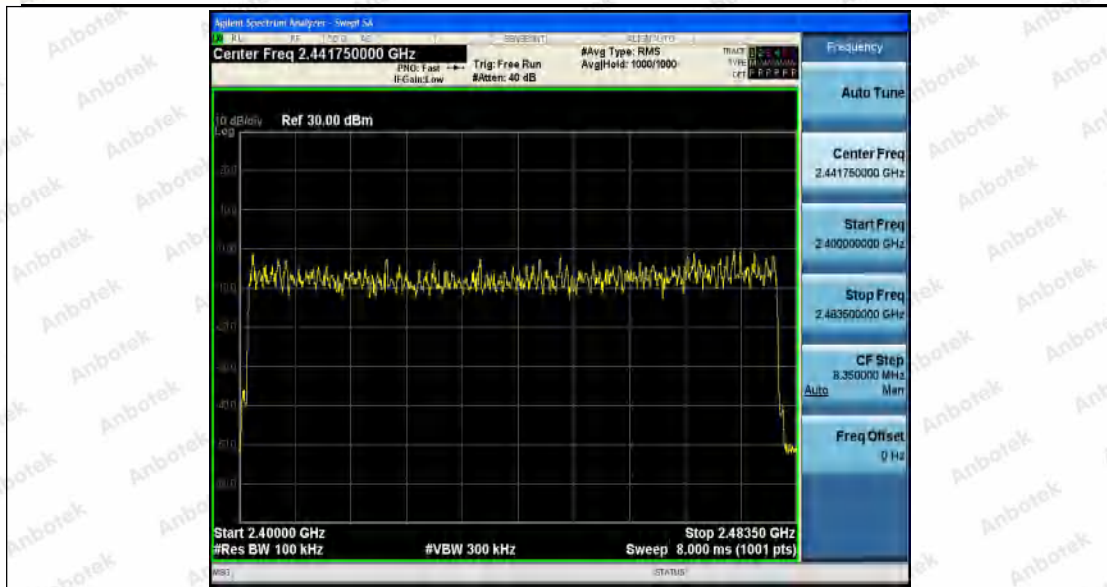
Appendix F: Number of hopping channels

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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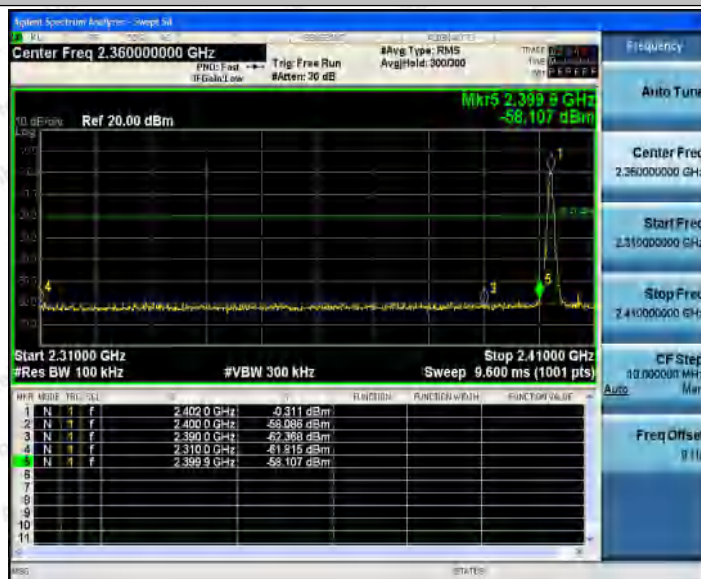
Appendix G: Band edge measurements

Test Result

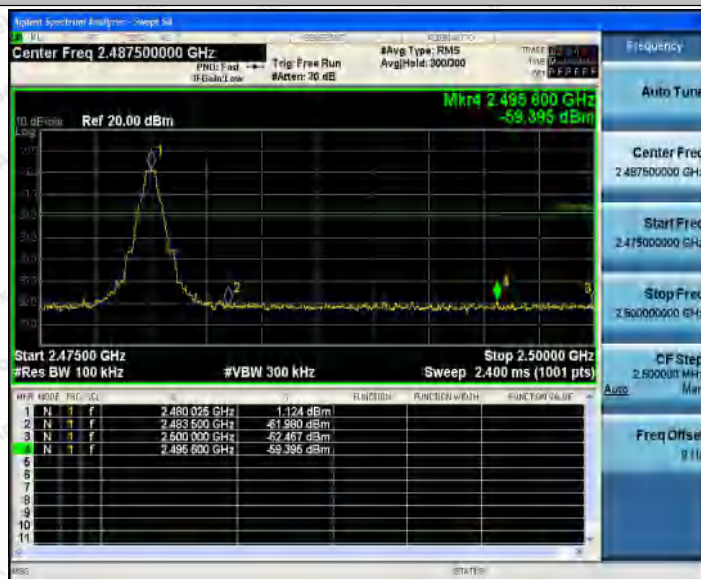
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.31	-58.11	≤-20.31	PASS
		High	2480	1.12	-59.4	≤-18.88	PASS
		Low	Hop	-0.91	-59.32	≤-20.91	PASS
		High	Hop	0.18	-60.63	≤-19.82	PASS
2DH5	Ant1	Low	2402	-1.95	-55.84	≤-21.95	PASS
		High	2480	-0.48	-58.87	≤-20.48	PASS
		Low	Hop	-6.17	-58.98	≤-26.17	PASS
		High	Hop	-4.27	-61.38	≤-24.27	PASS
3DH5	Ant1	Low	2402	-1.85	-56.84	≤-21.85	PASS
		High	2480	-0.46	-58.46	≤-20.46	PASS
		Low	Hop	-3.16	-59.35	≤-23.16	PASS
		High	Hop	-1.16	-62.24	≤-21.16	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



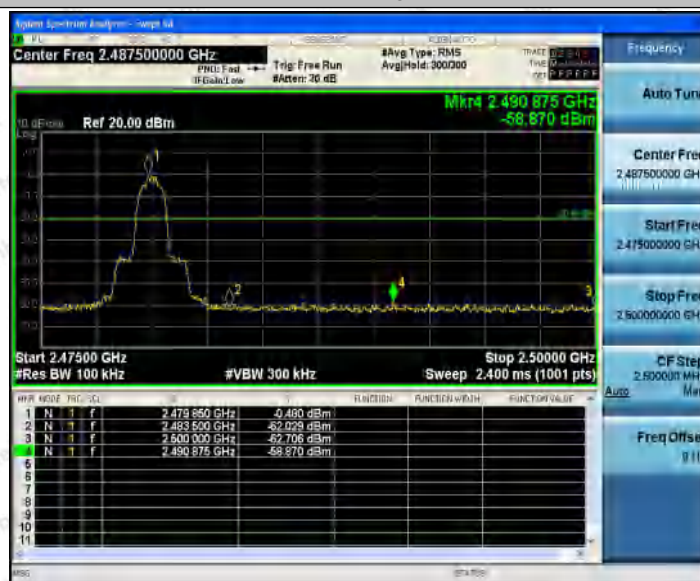
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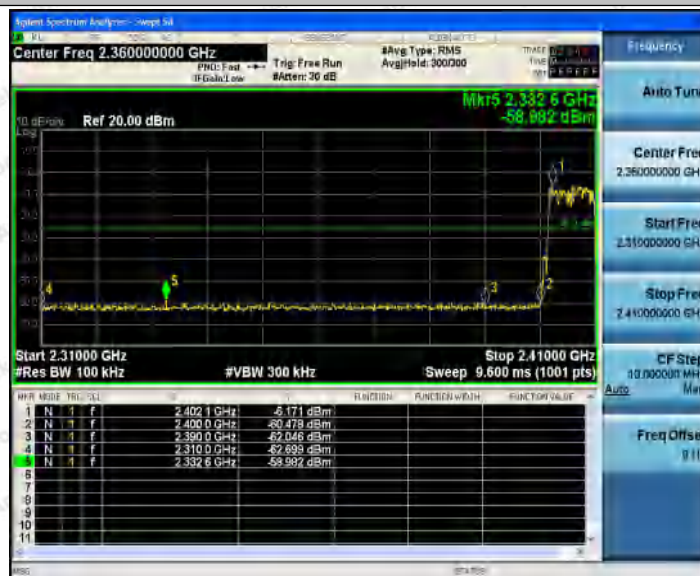
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2DH5_Ant1_High_2480



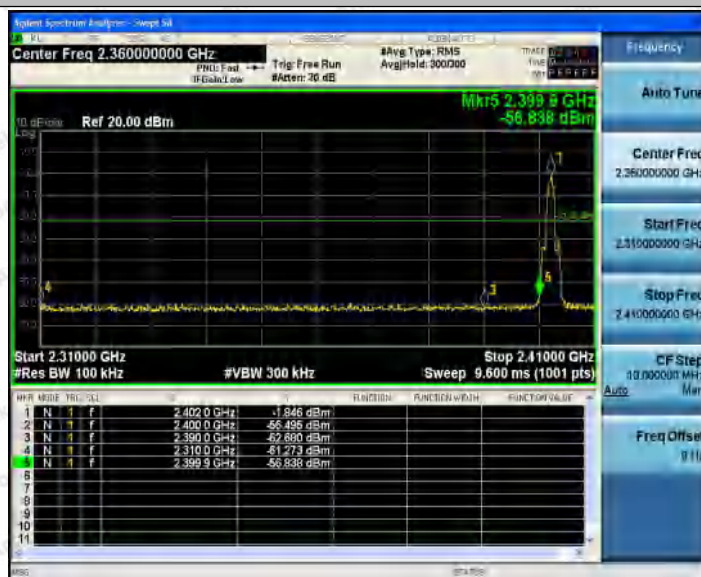
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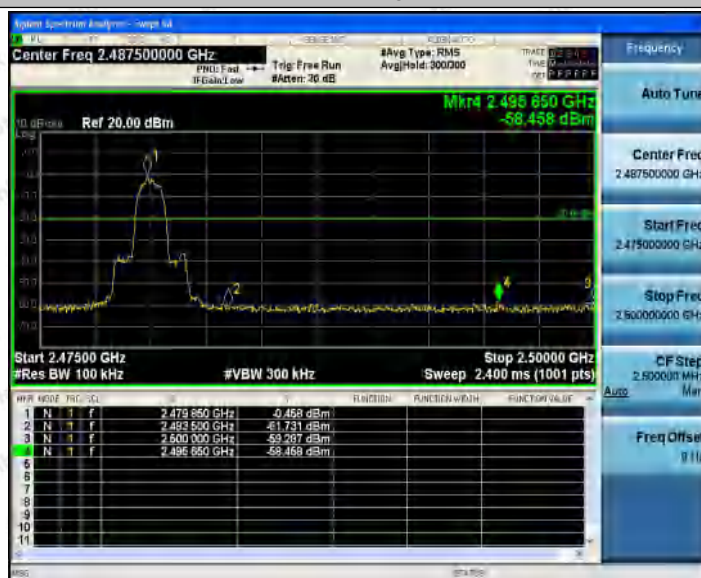
2DH5_Ant1_High_Hop



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	-0.48	-0.48	---	PASS
			30~1000	-0.48	-70.63	≤-20.48	PASS
			1000~26500	-0.48	-40.09	≤-20.48	PASS
		2441	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-70.6	≤-21.86	PASS
			1000~26500	-1.86	-43.92	≤-21.86	PASS
		2480	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-70.75	≤-19.3	PASS
			1000~26500	0.70	-46.96	≤-19.3	PASS
2DH5	Ant1	2402	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-70.37	≤-21.64	PASS
			1000~26500	-1.64	-45.55	≤-21.64	PASS
		2441	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-70.32	≤-22.74	PASS
			1000~26500	-2.74	-46.45	≤-22.74	PASS
		2480	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-70.75	≤-20.57	PASS
			1000~26500	-0.57	-47.65	≤-20.57	PASS
3DH5	Ant1	2402	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-69.77	≤-21.37	PASS
			1000~26500	-1.37	-45.07	≤-21.37	PASS
		2441	Reference	-2.75	-2.75	---	PASS
			30~1000	-2.75	-69.52	≤-22.75	PASS
			1000~26500	-2.75	-46.51	≤-22.75	PASS
		2480	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-70.07	≤-20.71	PASS
			1000~26500	-0.71	-50.88	≤-20.71	PASS

Test Graphs

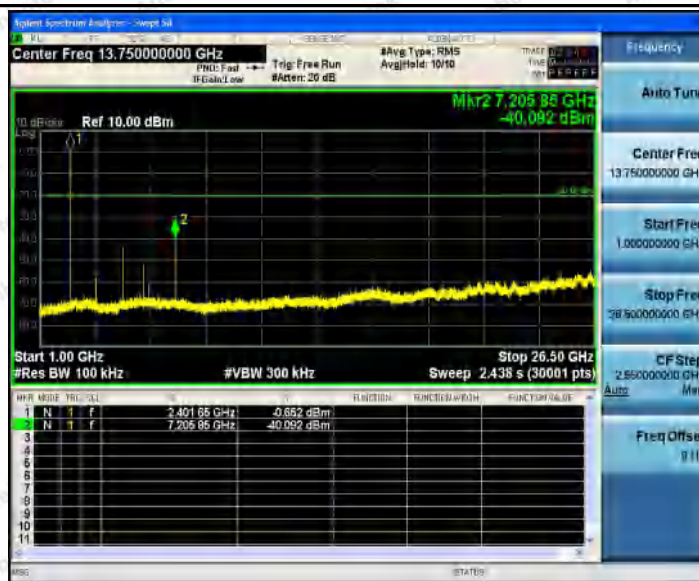
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DH5_Ant1_2402_30~1000



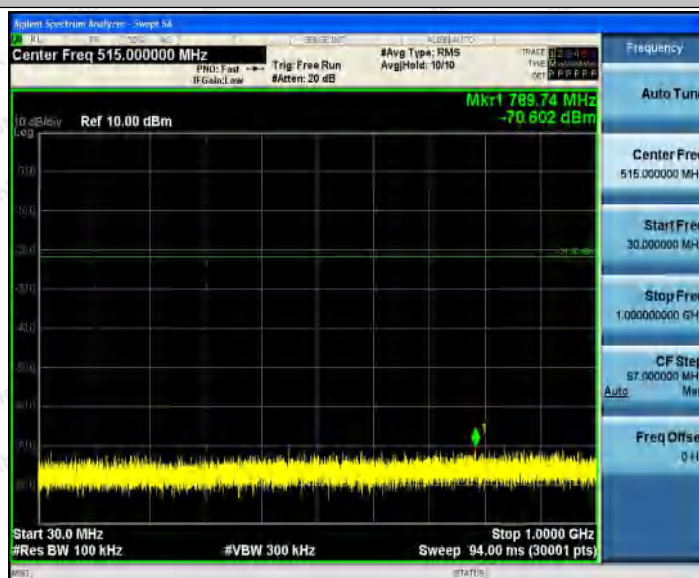
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



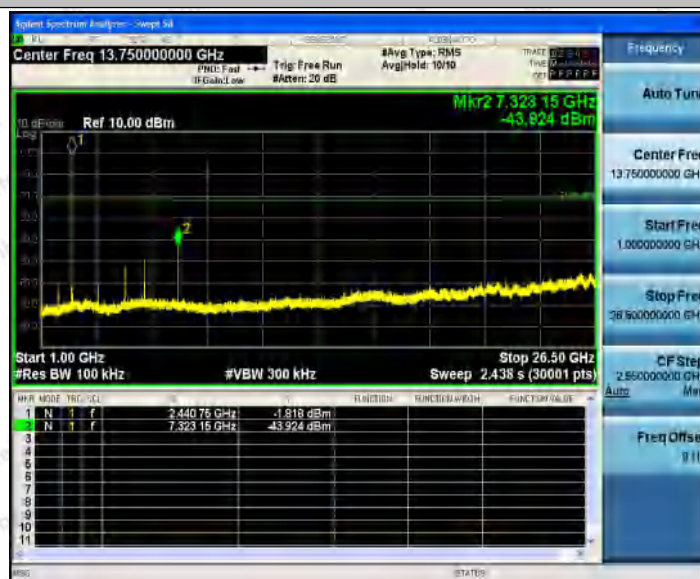
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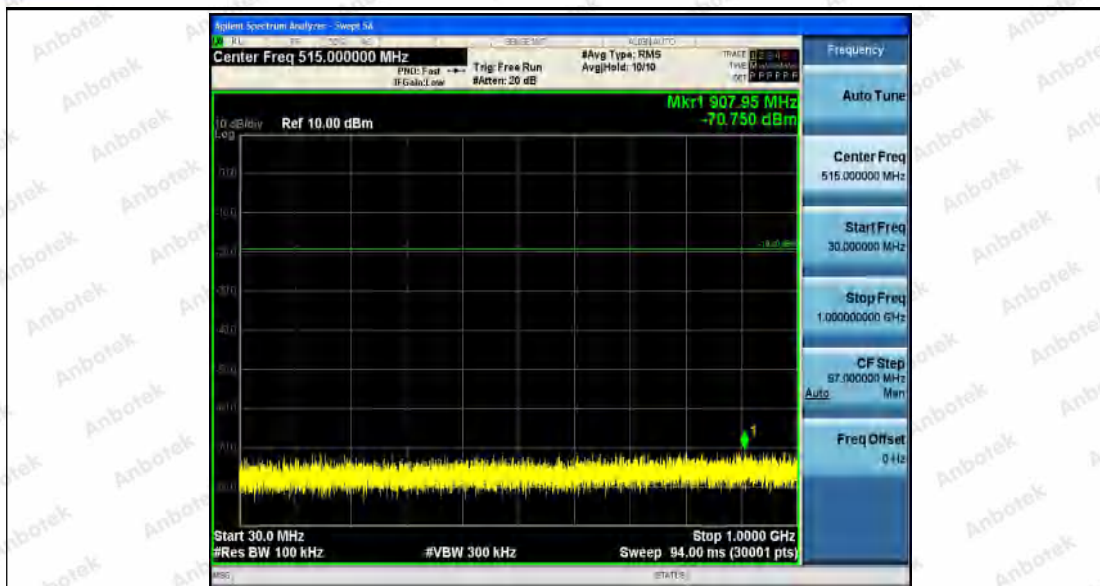
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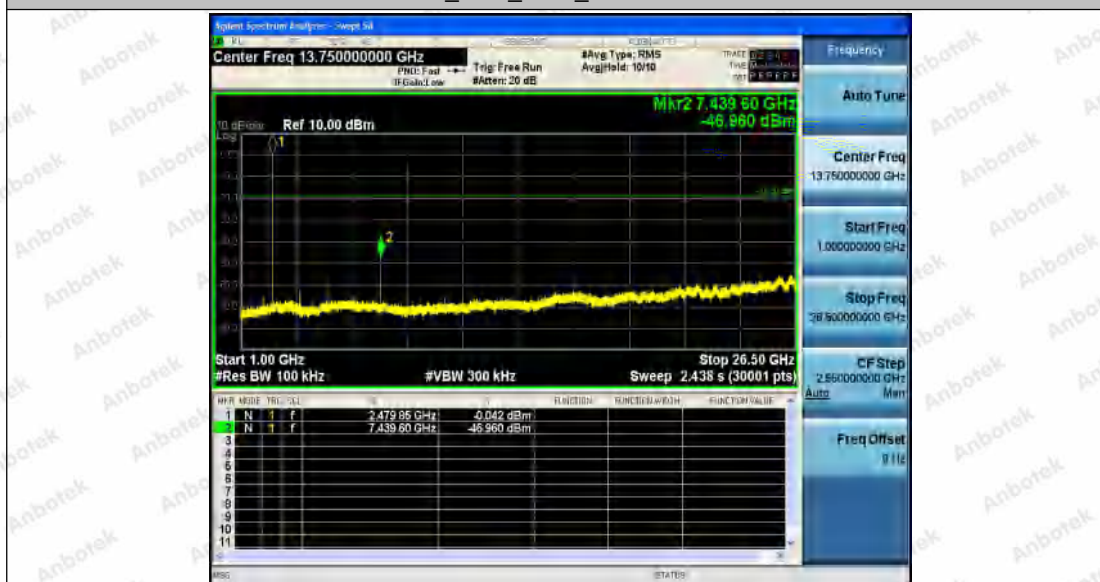
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



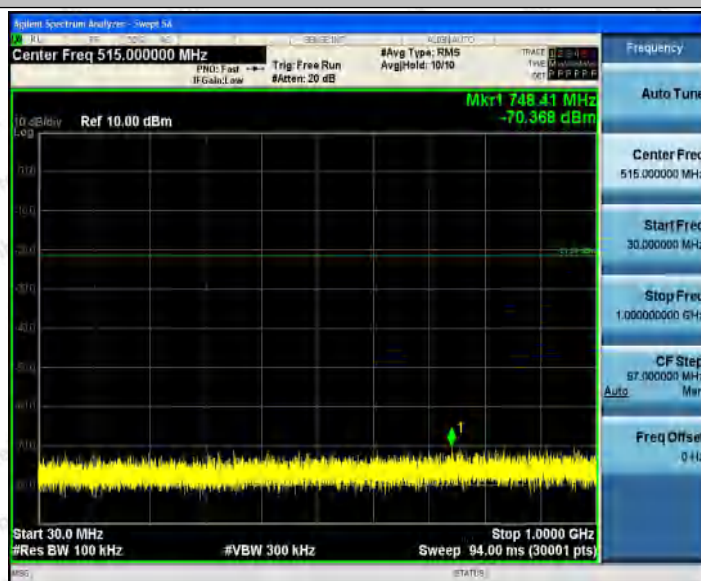
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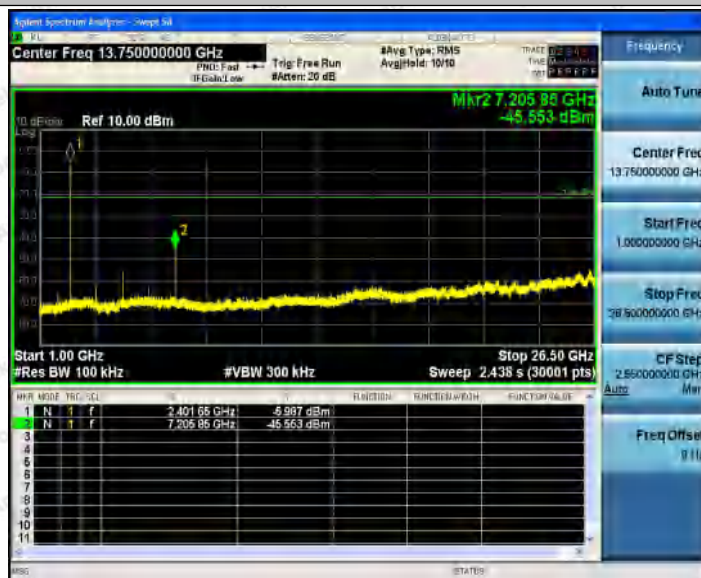
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2DH5_Ant1_2402_30~1000



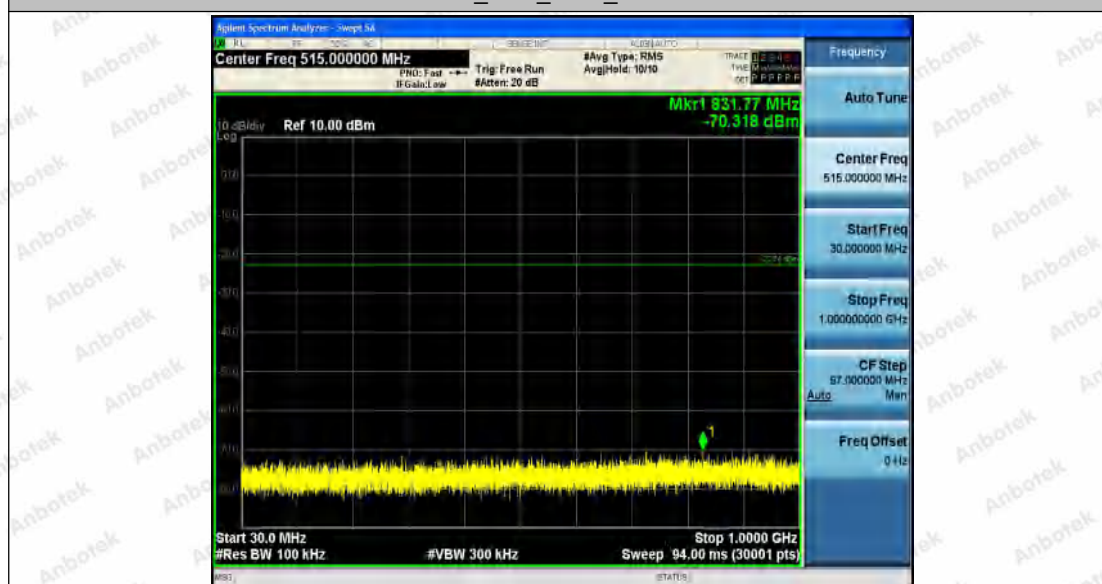
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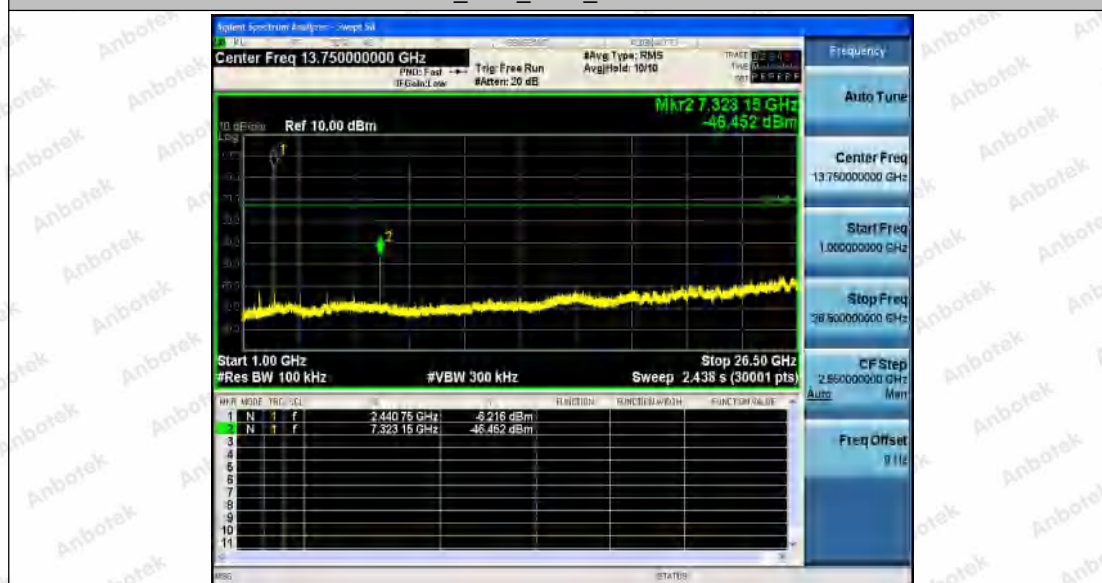
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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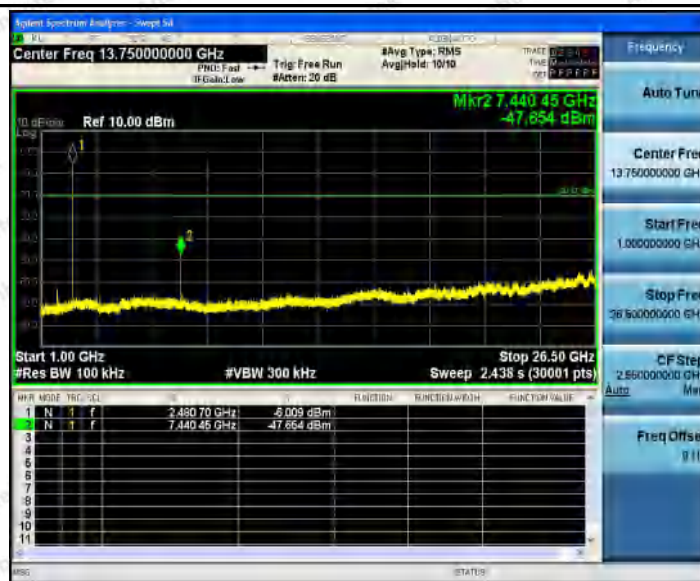
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2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



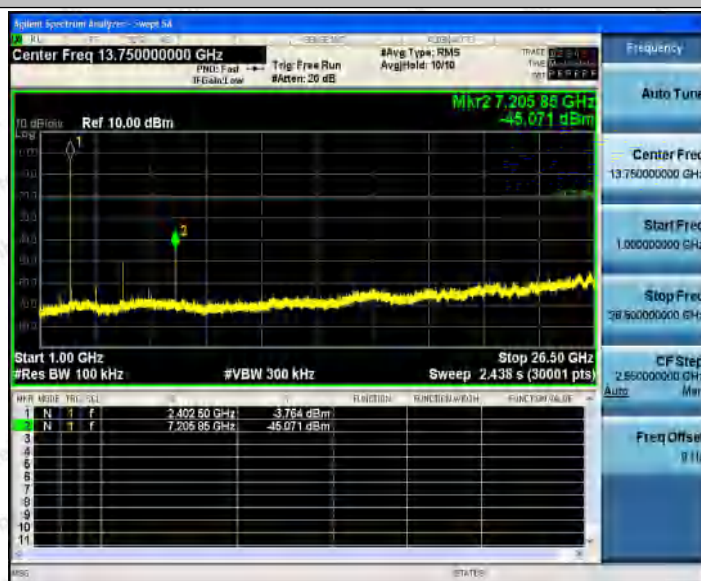
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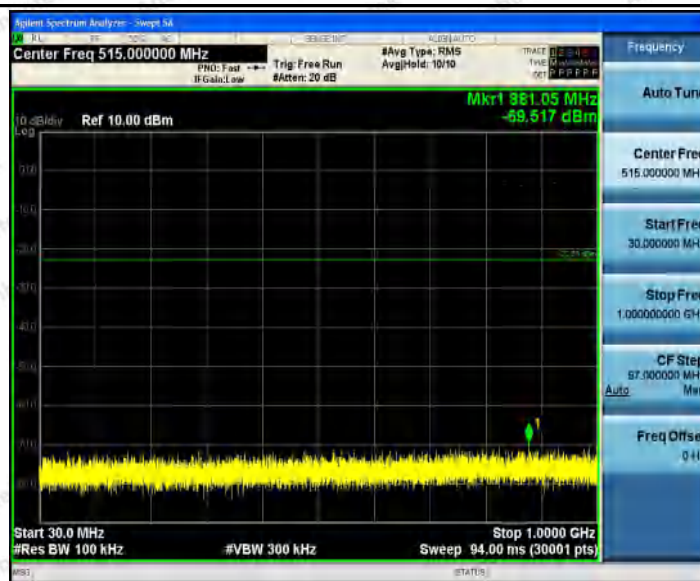
3DH5_Ant1_2402_1000~26500



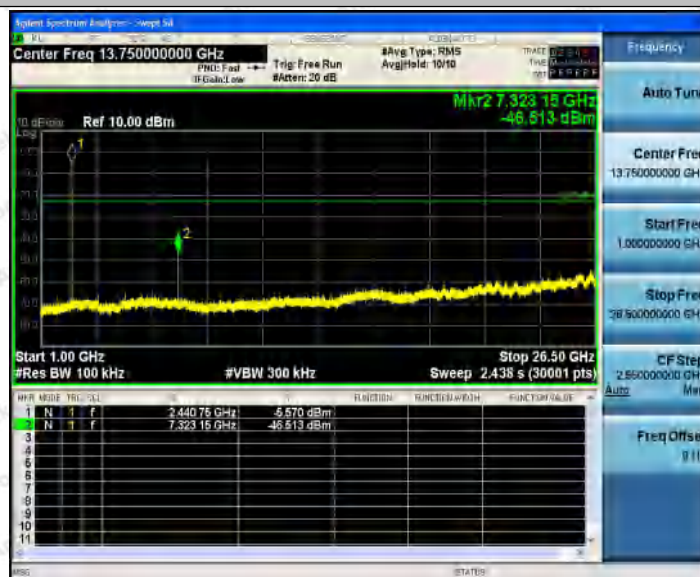
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

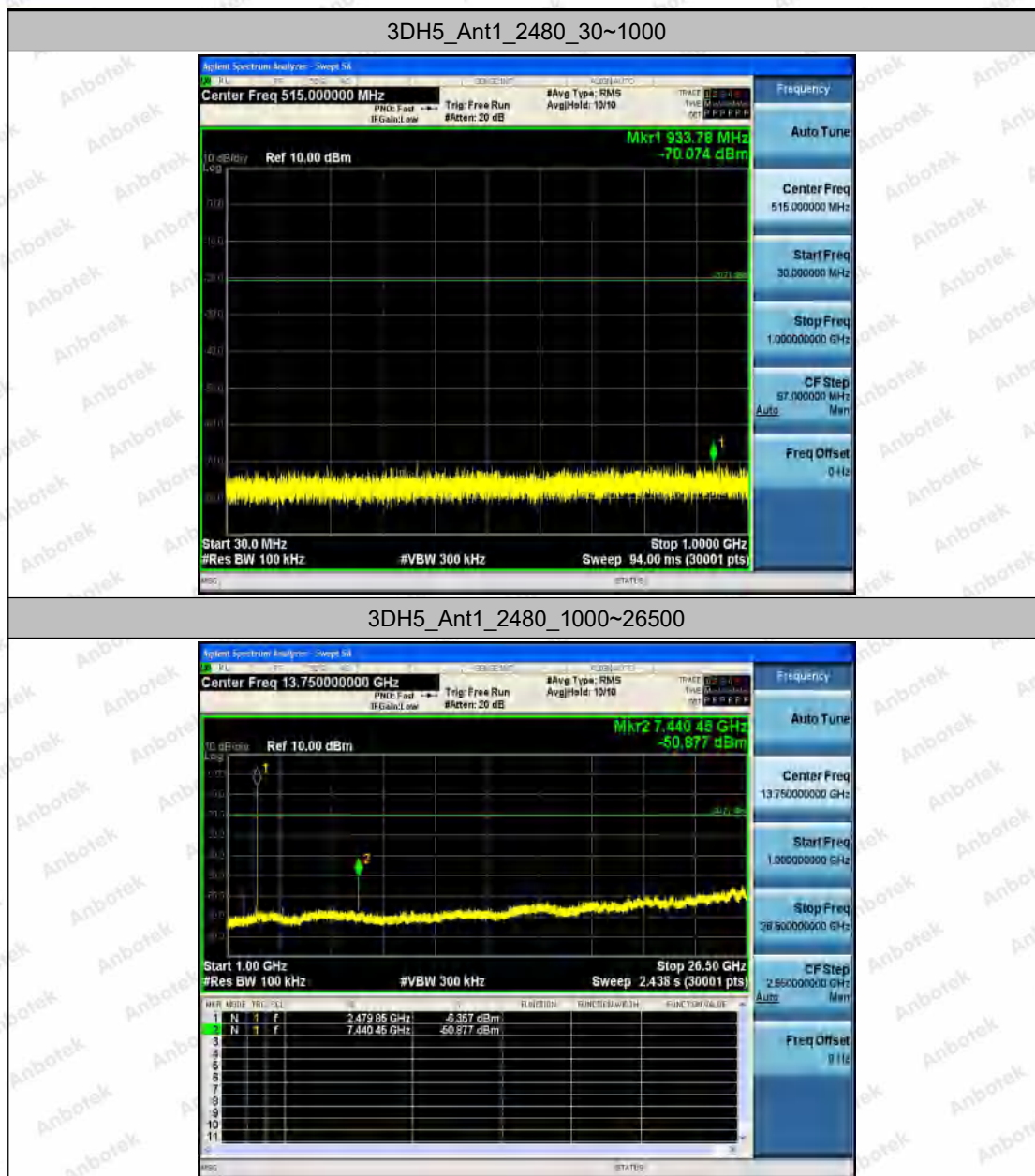


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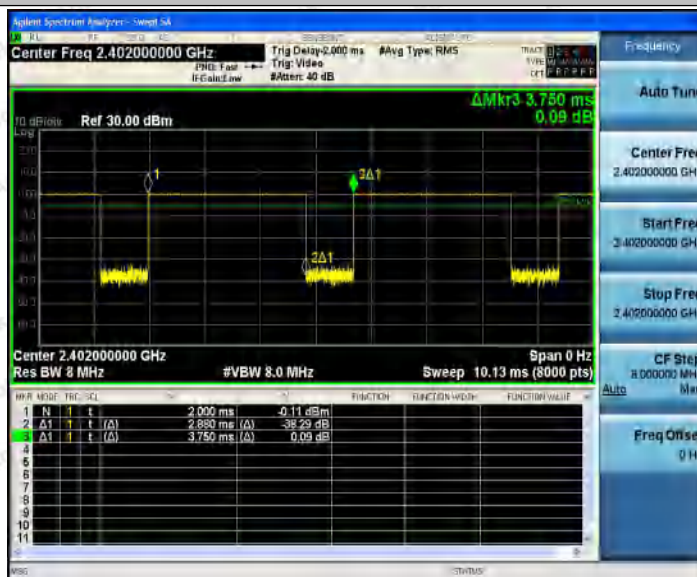
Appendix I: Duty Cycle

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	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

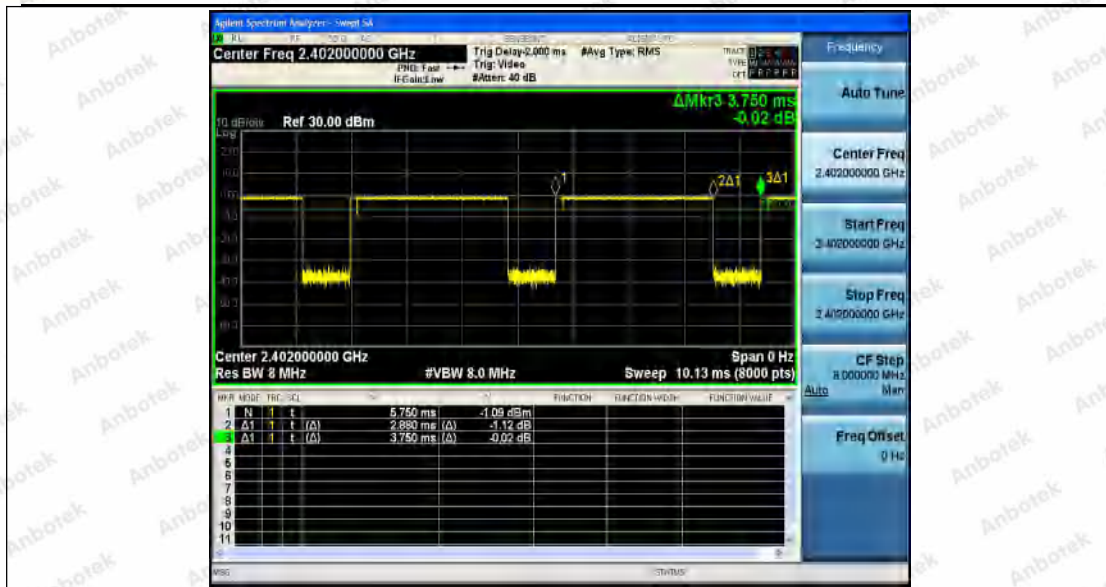
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---