

Appendix Test Data

Report No.:	18220WC20036601	Test Sample No.:	1-2-2
Start Test Date:	2022.2.26	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	0.948	2401.538	2402.486	---	PASS
		2441	0.951	2440.538	2441.489	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.347	2401.328	2402.675	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.263	2479.367	2480.630	---	PASS
3DH5	Ant1	2402	1.275	2401.352	2402.627	---	PASS
		2441	1.311	2440.343	2441.654	---	PASS
		2480	1.272	2479.352	2480.624	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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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	0.88445	2401.56 0	2402.444	---	PASS
		2441	0.89372	2440.55 5	2441.449	---	PASS
		2480	0.89371	2479.55 3	2480.447	---	PASS
2DH5	Ant1	2402	1.1907	2401.40 3	2402.594	---	PASS
		2441	1.2073	2440.39 6	2441.603	---	PASS
		2480	1.1899	2479.40 3	2480.593	---	PASS
3DH5	Ant1	2402	1.2099	2401.38 5	2402.595	---	PASS
		2441	1.2124	2440.38 4	2441.597	---	PASS
		2480	1.2053	2479.38 9	2480.595	---	PASS

Test Graphs



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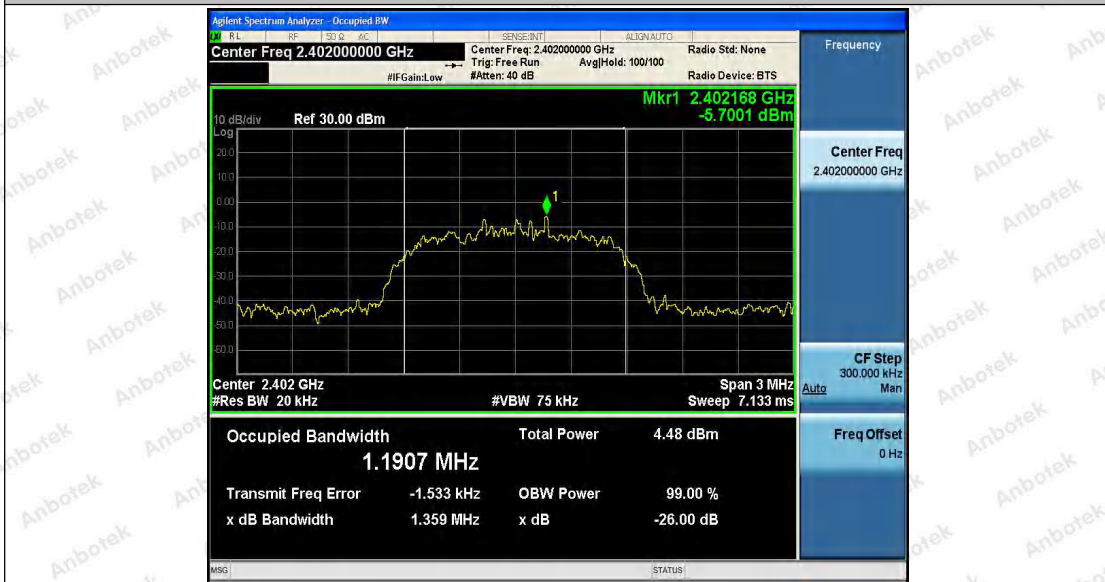
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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2DH5_Ant1_2402



2DH5_Ant1_2441



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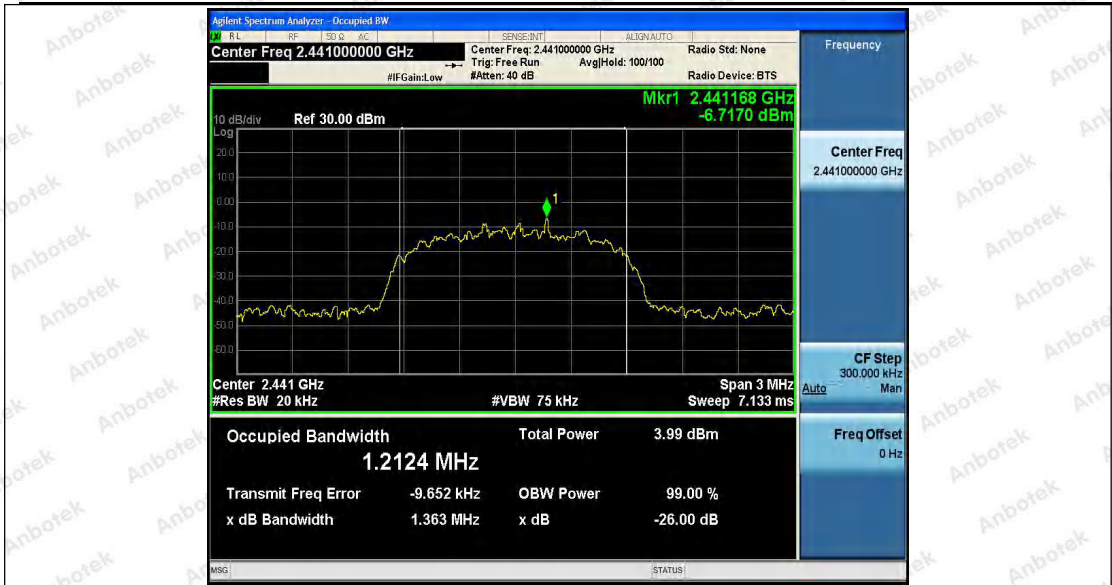


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3DH5_Ant1_2480



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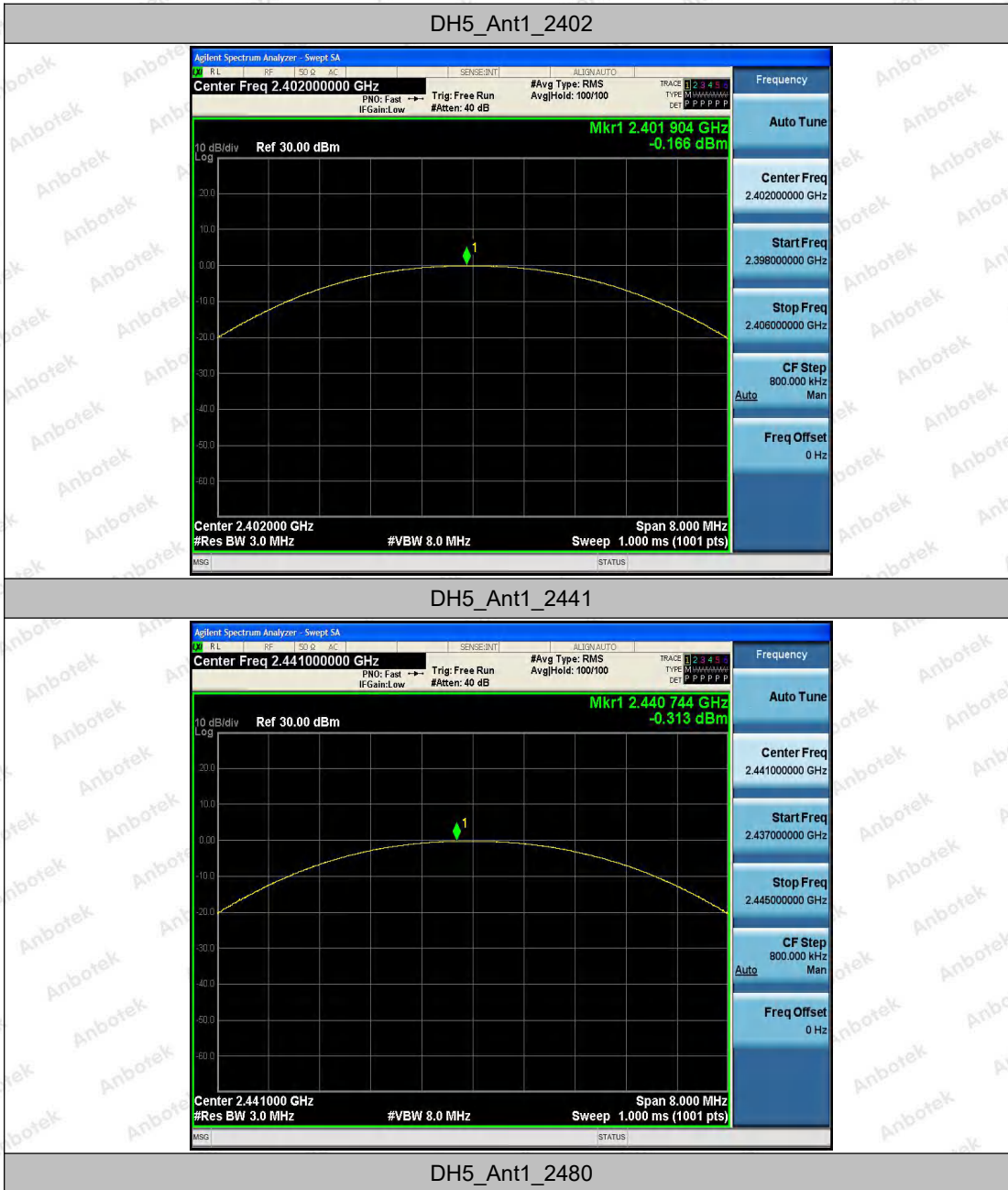
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.17	≤20.97	PASS
		2441	-0.31	≤20.97	PASS
		2480	0.53	≤20.97	PASS
2DH5	Ant1	2402	-1	≤20.97	PASS
		2441	-1.21	≤20.97	PASS
		2480	-0.31	≤20.97	PASS
3DH5	Ant1	2402	-0.87	≤20.97	PASS
		2441	-1	≤20.97	PASS
		2480	-0.14	≤20.97	PASS

Test Graphs



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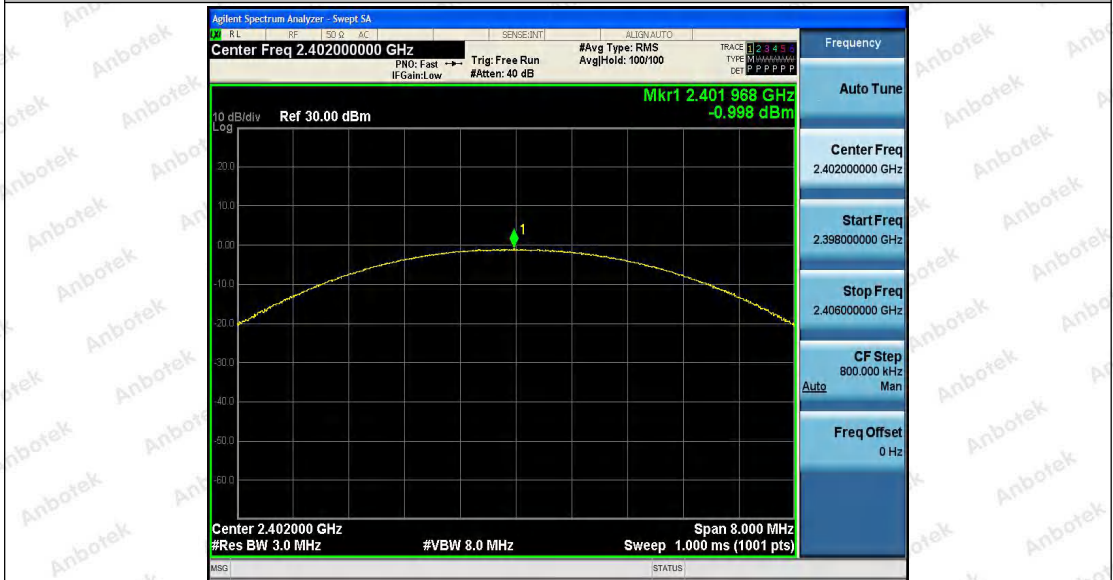
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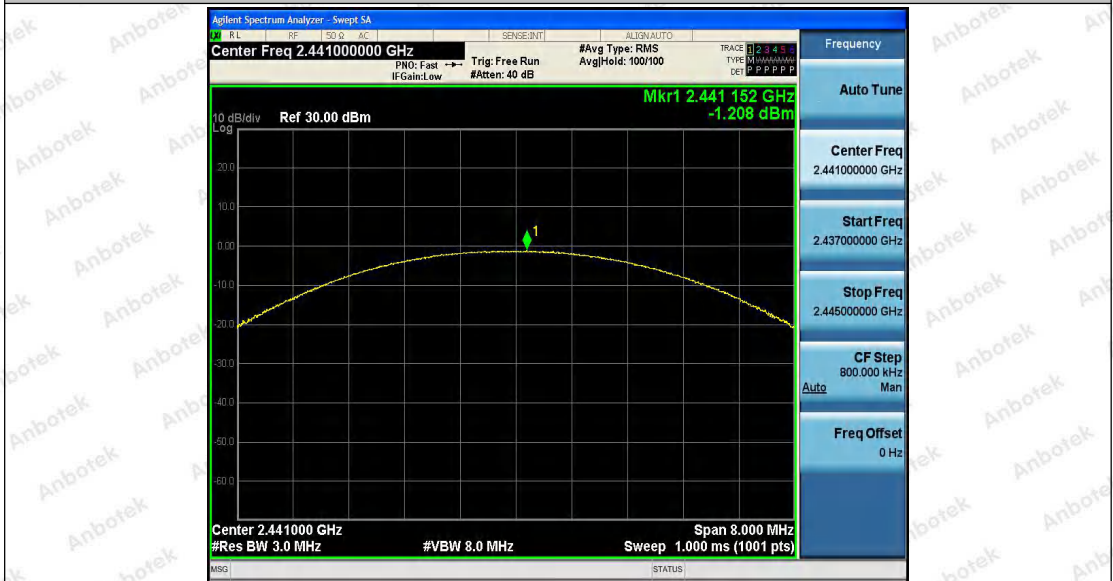
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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.904	≥ 0.634	PASS
2DH5	Ant1	Hop	0.936	≥ 0.898	PASS
3DH5	Ant1	Hop	1.002	≥ 0.874	PASS

Test Graphs



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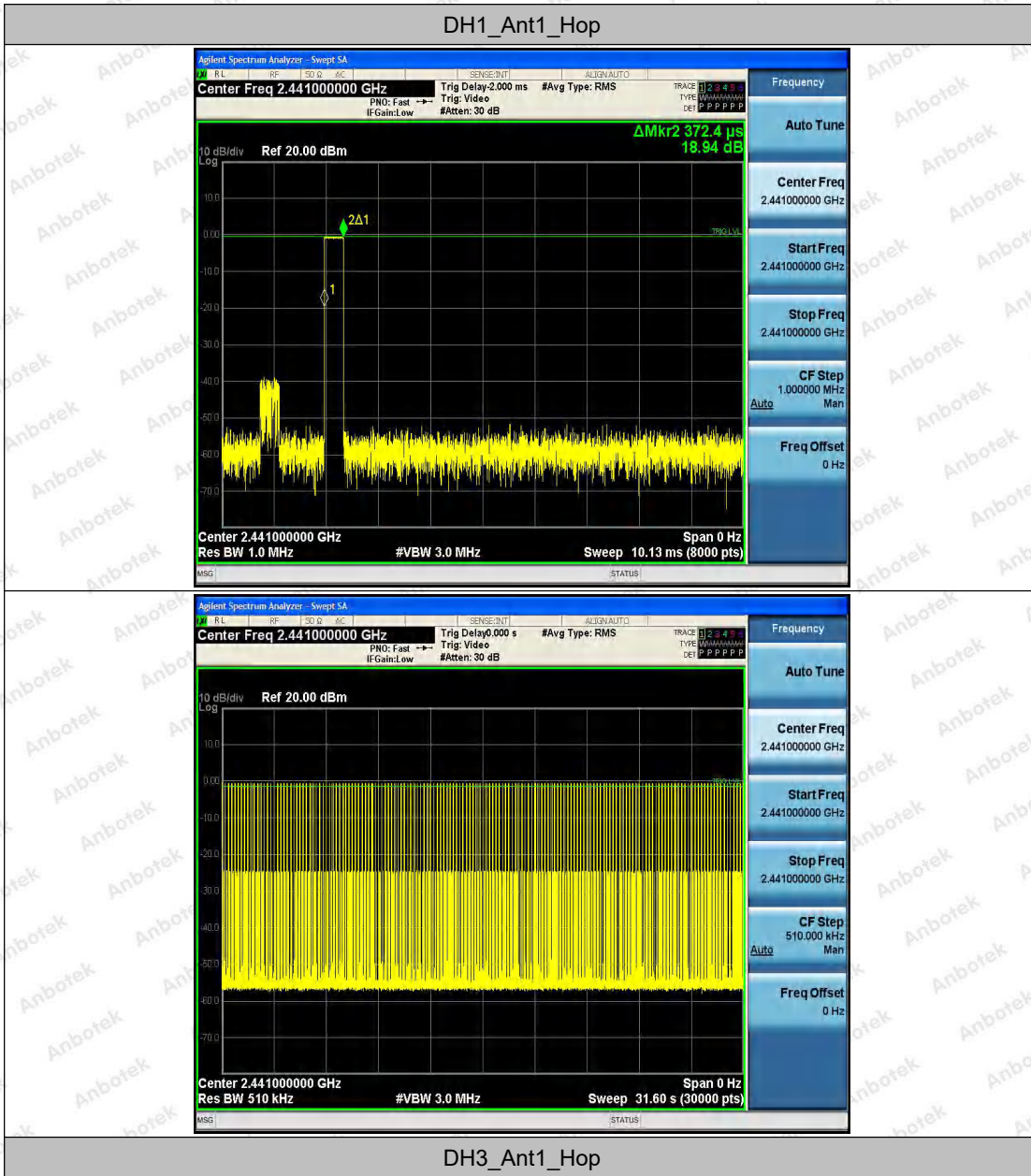
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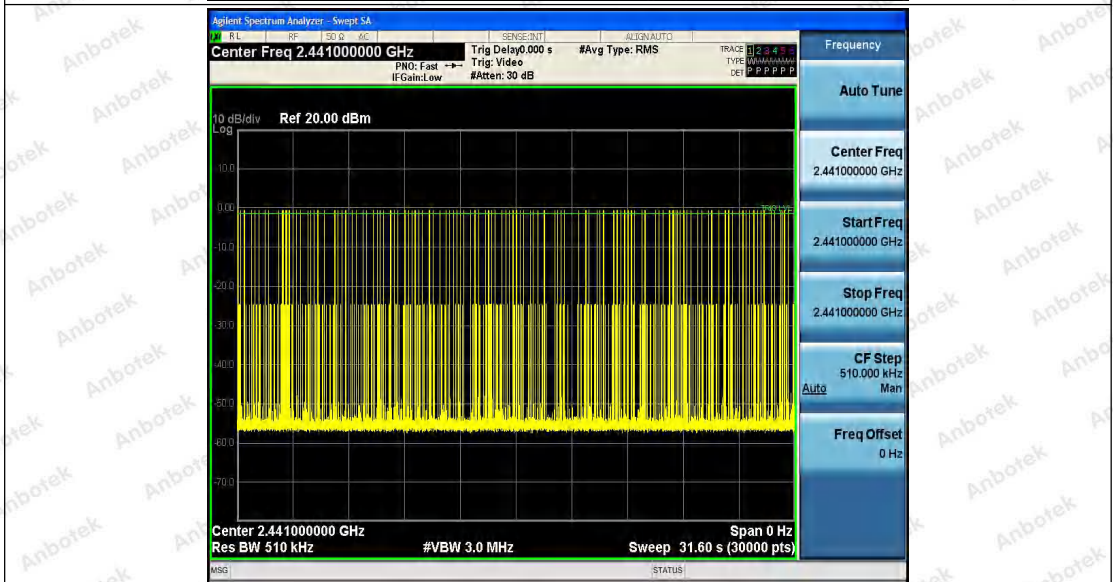
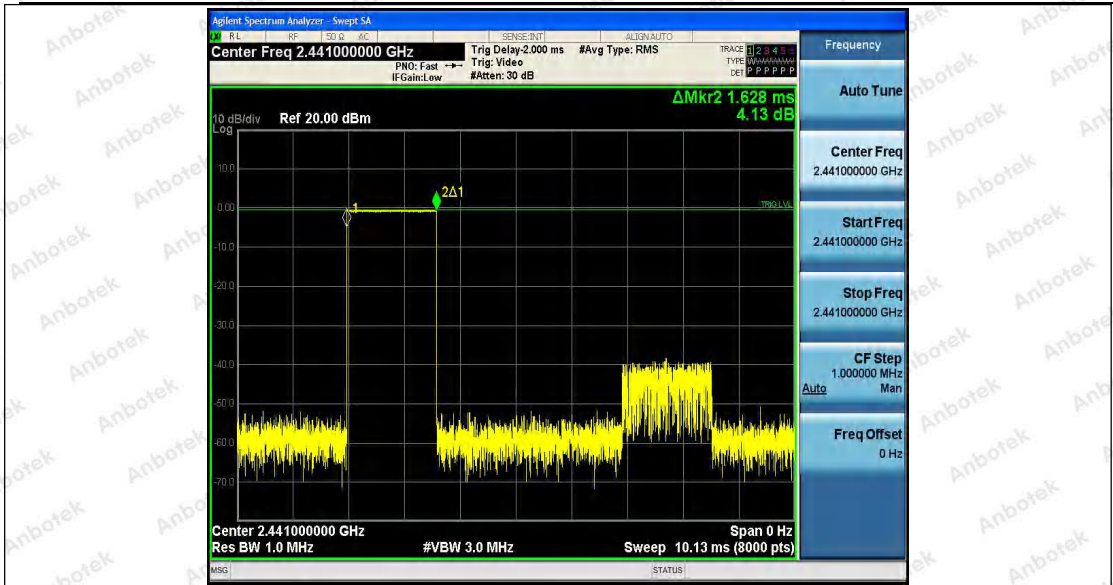
Appendix E: Time of occupancy

Test Result

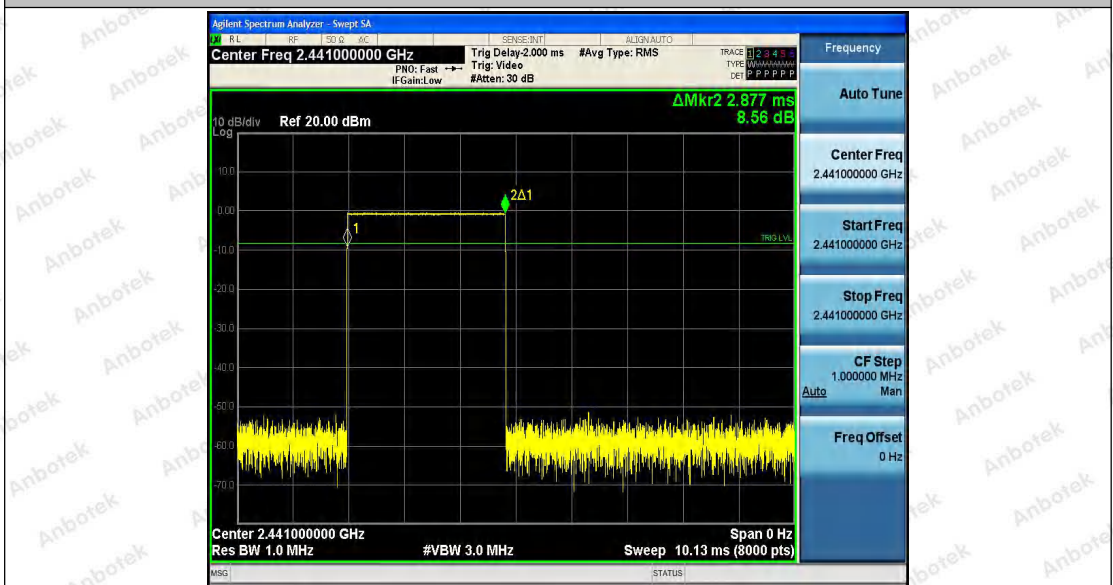
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	112	0.322	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

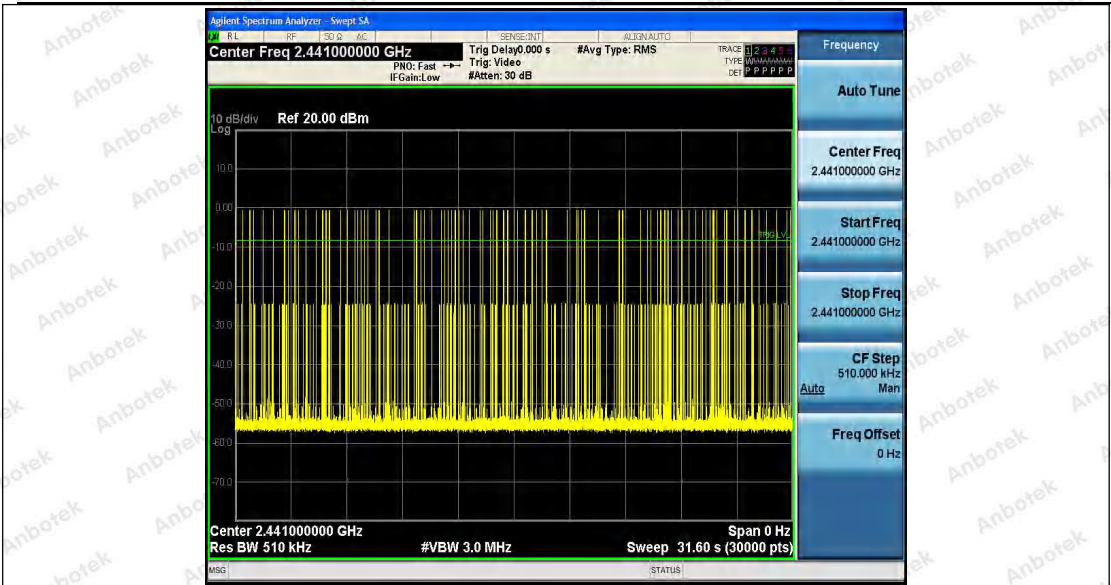


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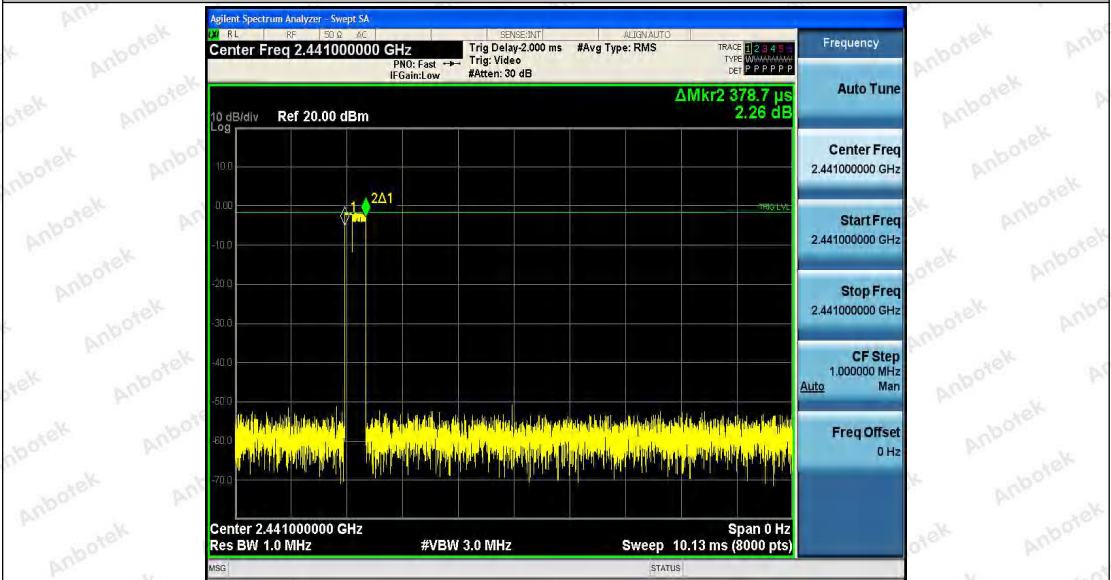
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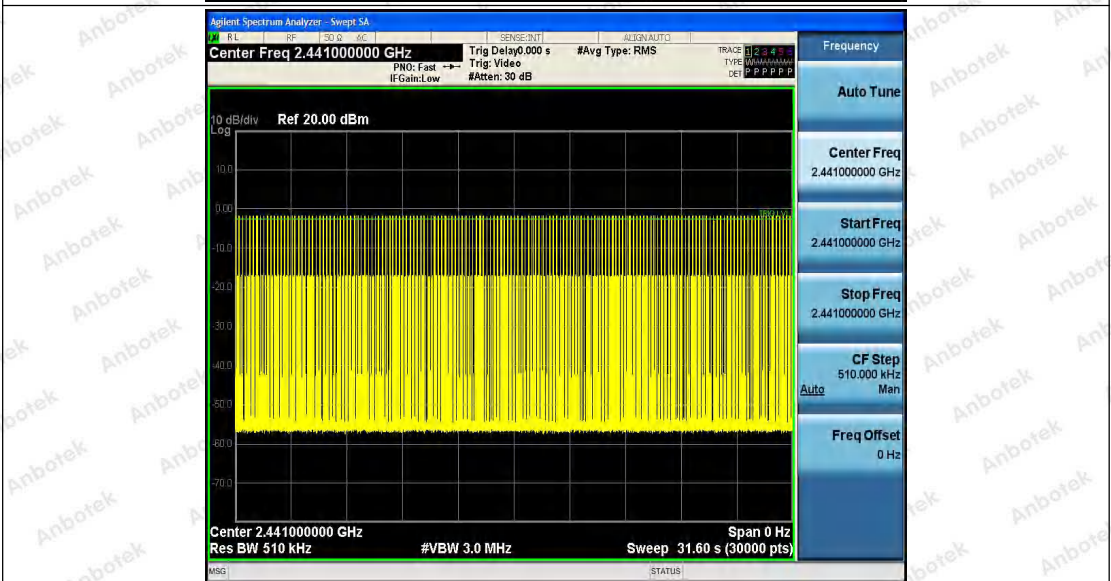
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2DH1_Ant1_Hop



2DH3_Ant1_Hop



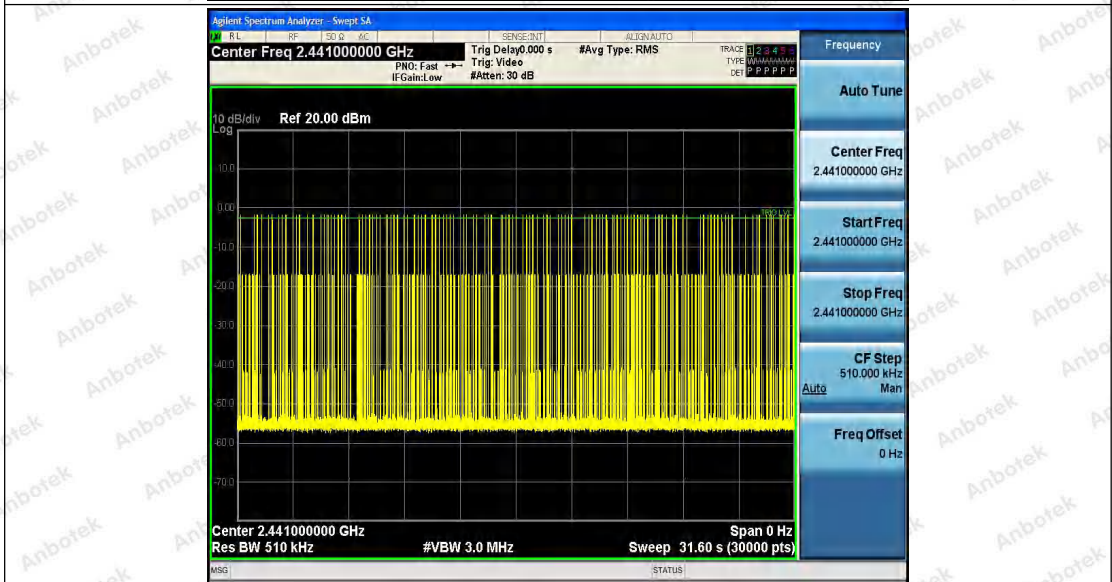
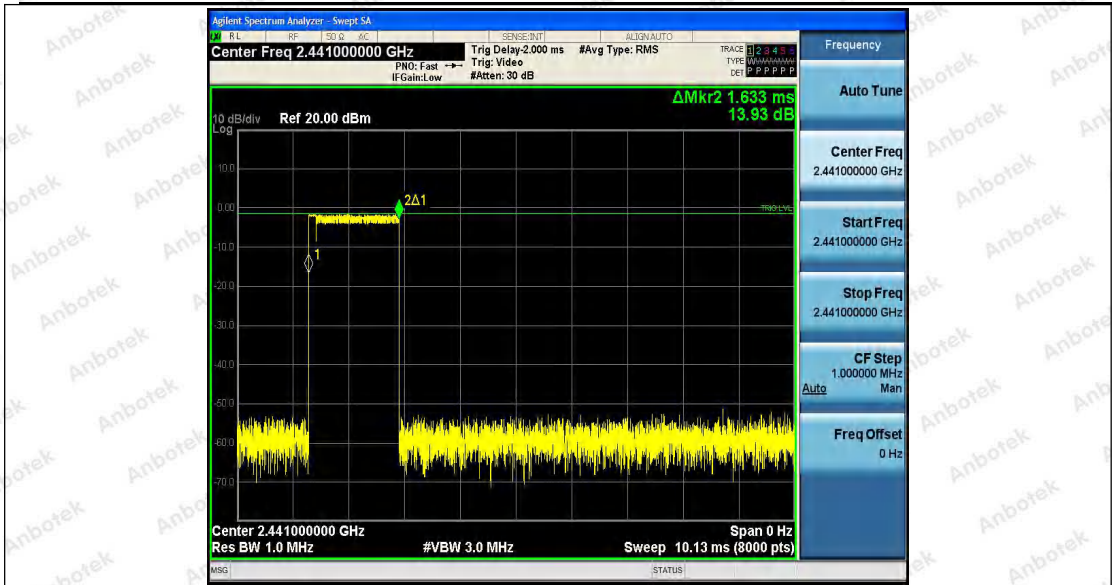
2DH3_Ant1_Hop

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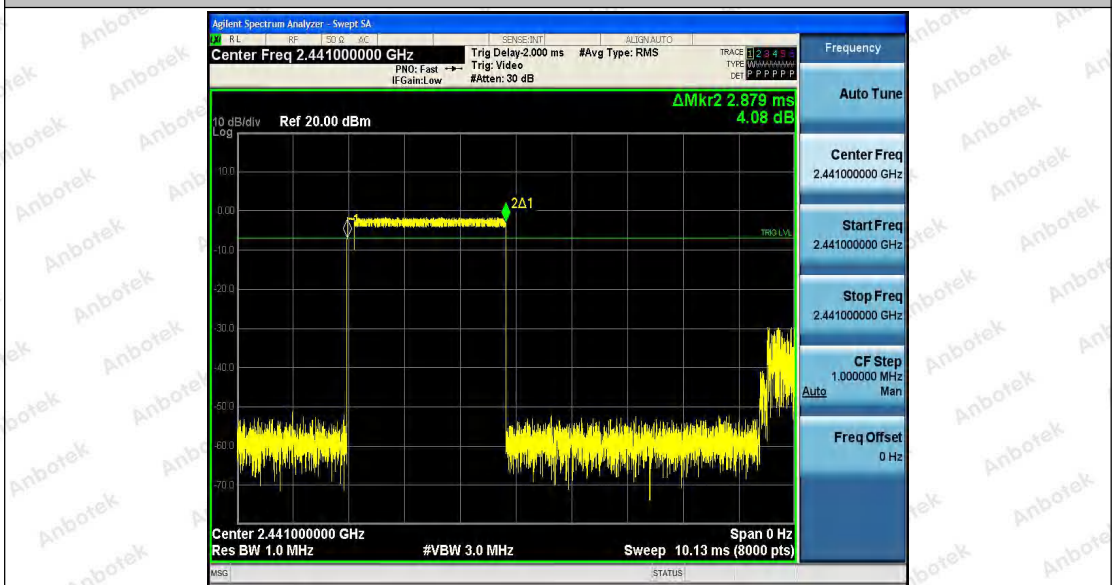
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2DH5_Ant1_Hop

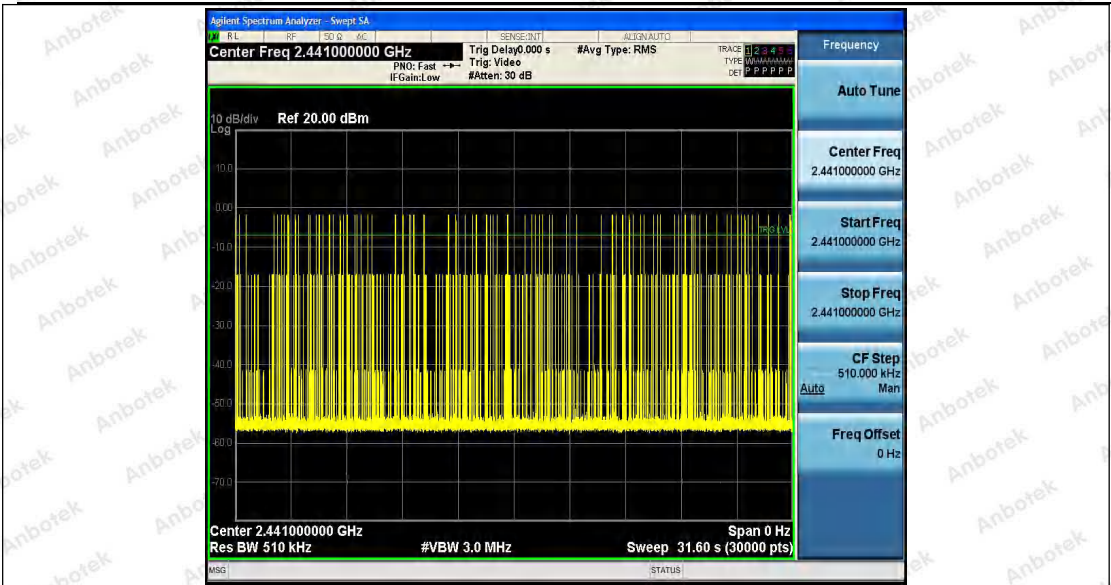


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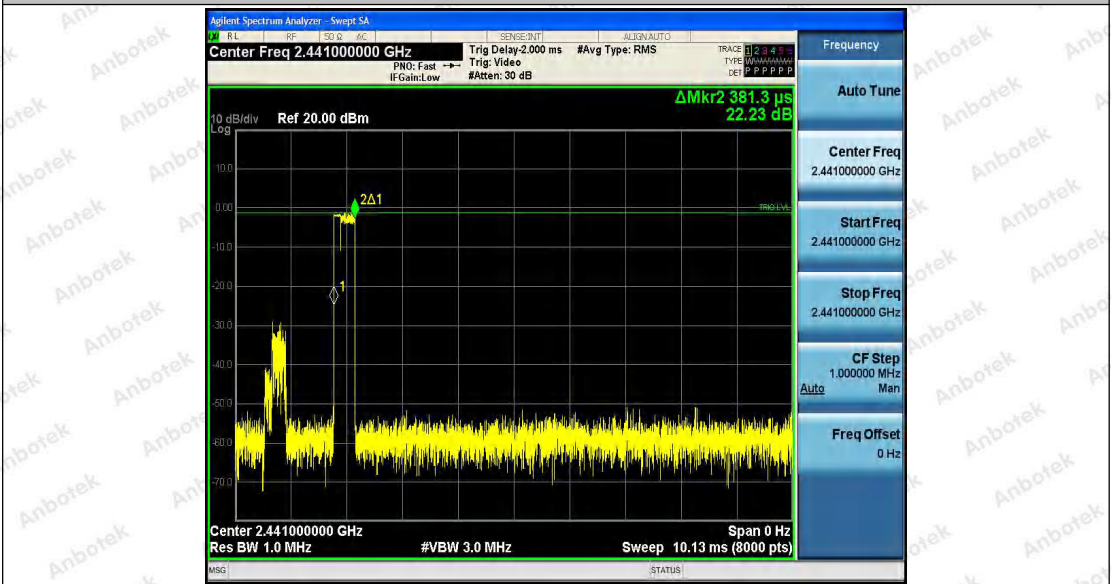
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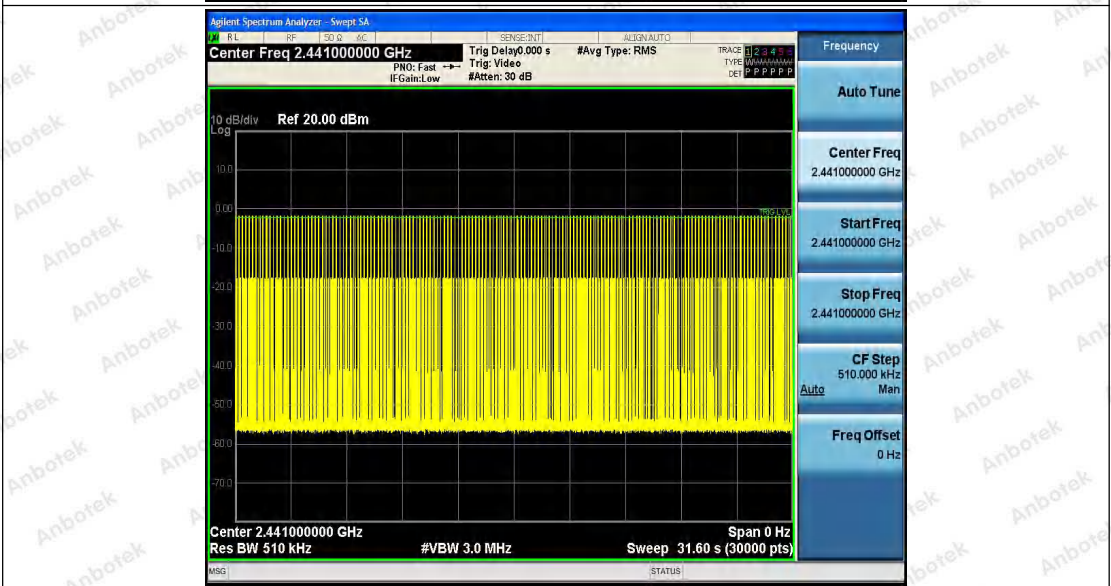
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



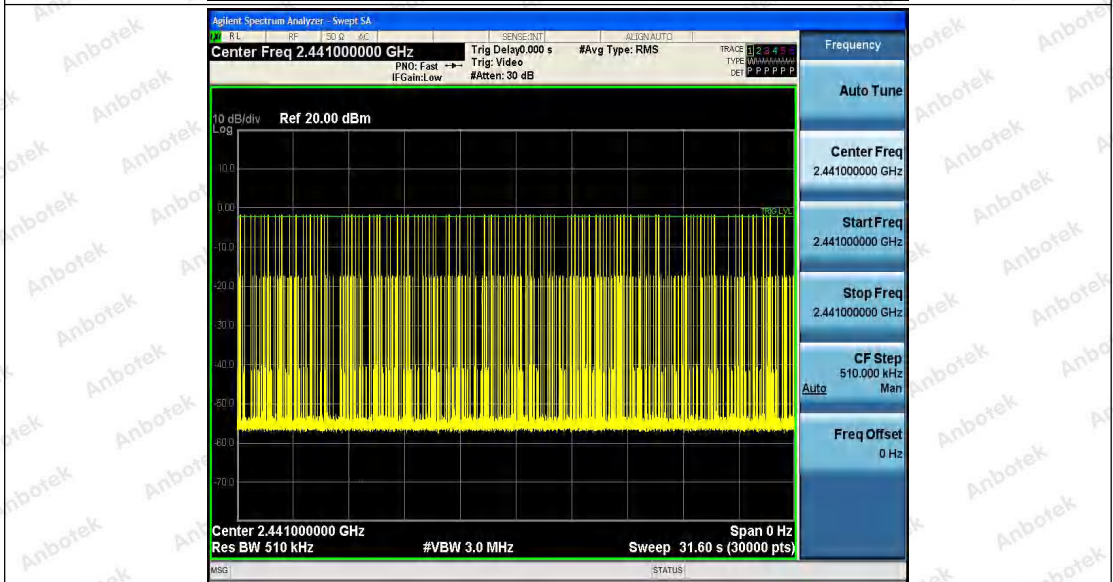
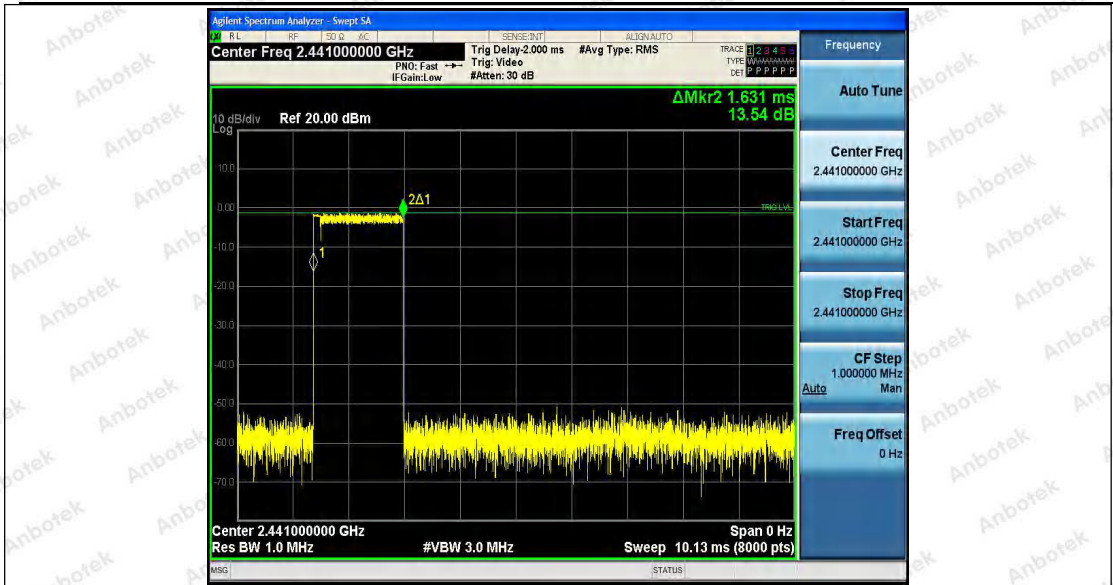
3DH3_Ant1_Hop

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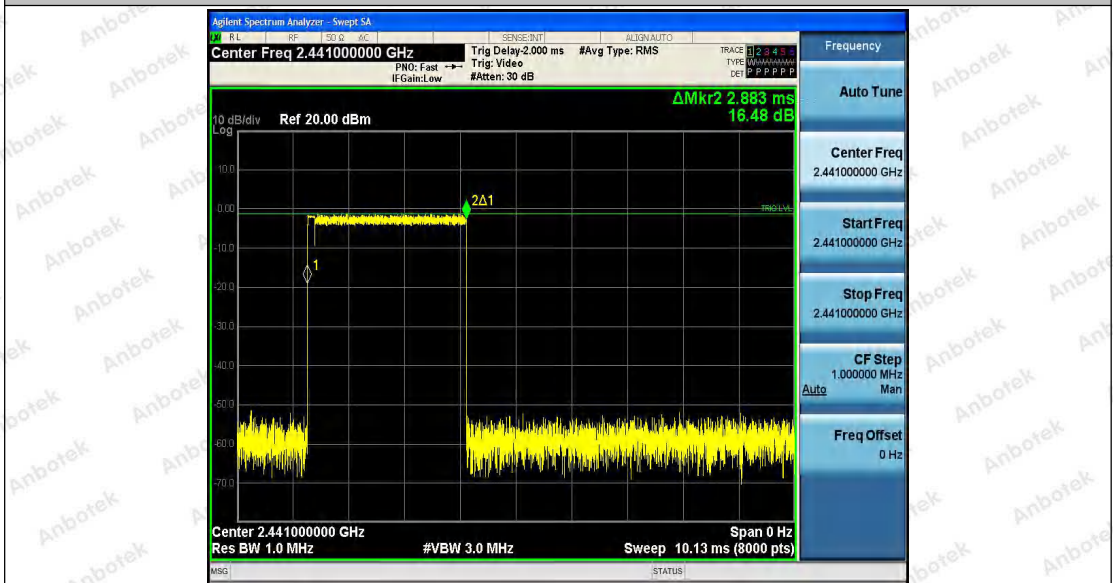
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3DH5_Ant1_Hop

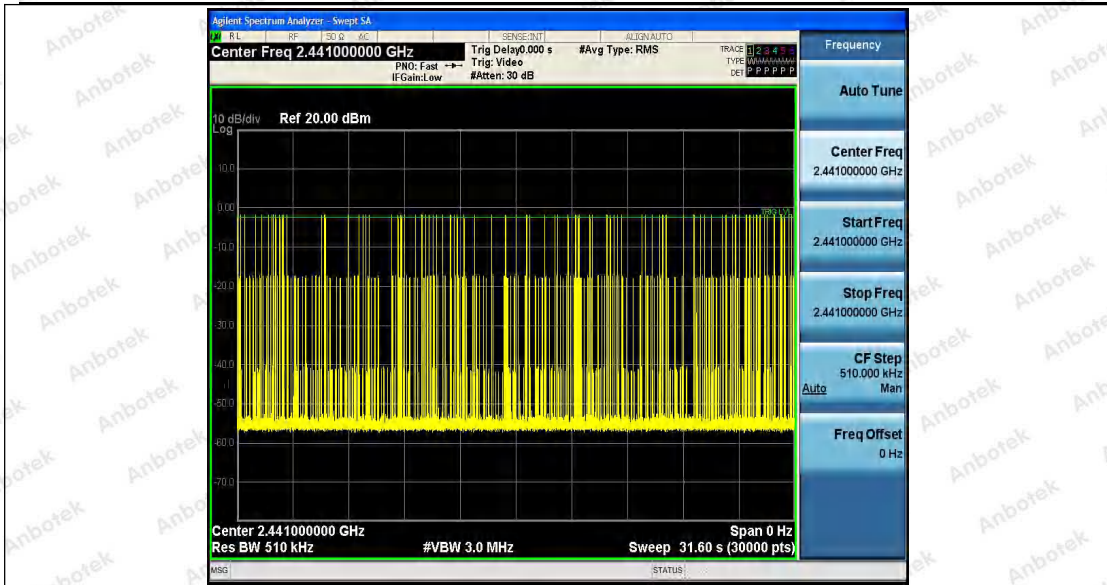


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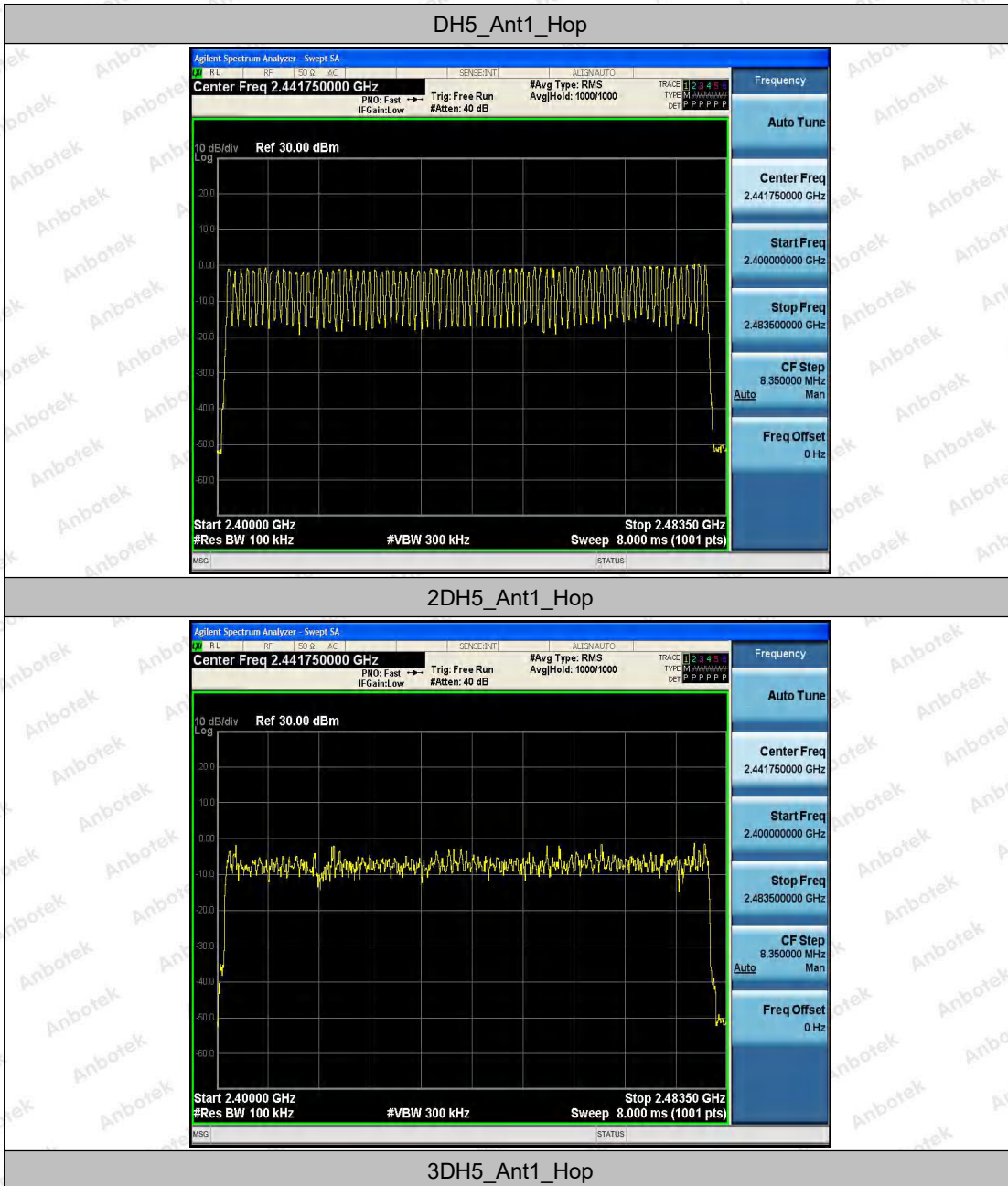
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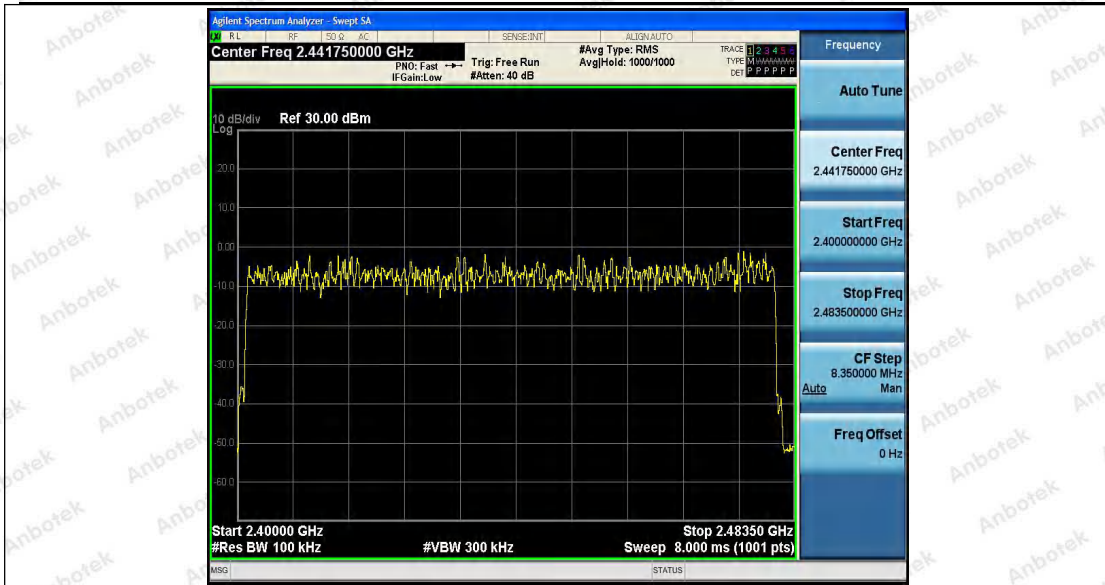
Appendix F: Number of hopping channels

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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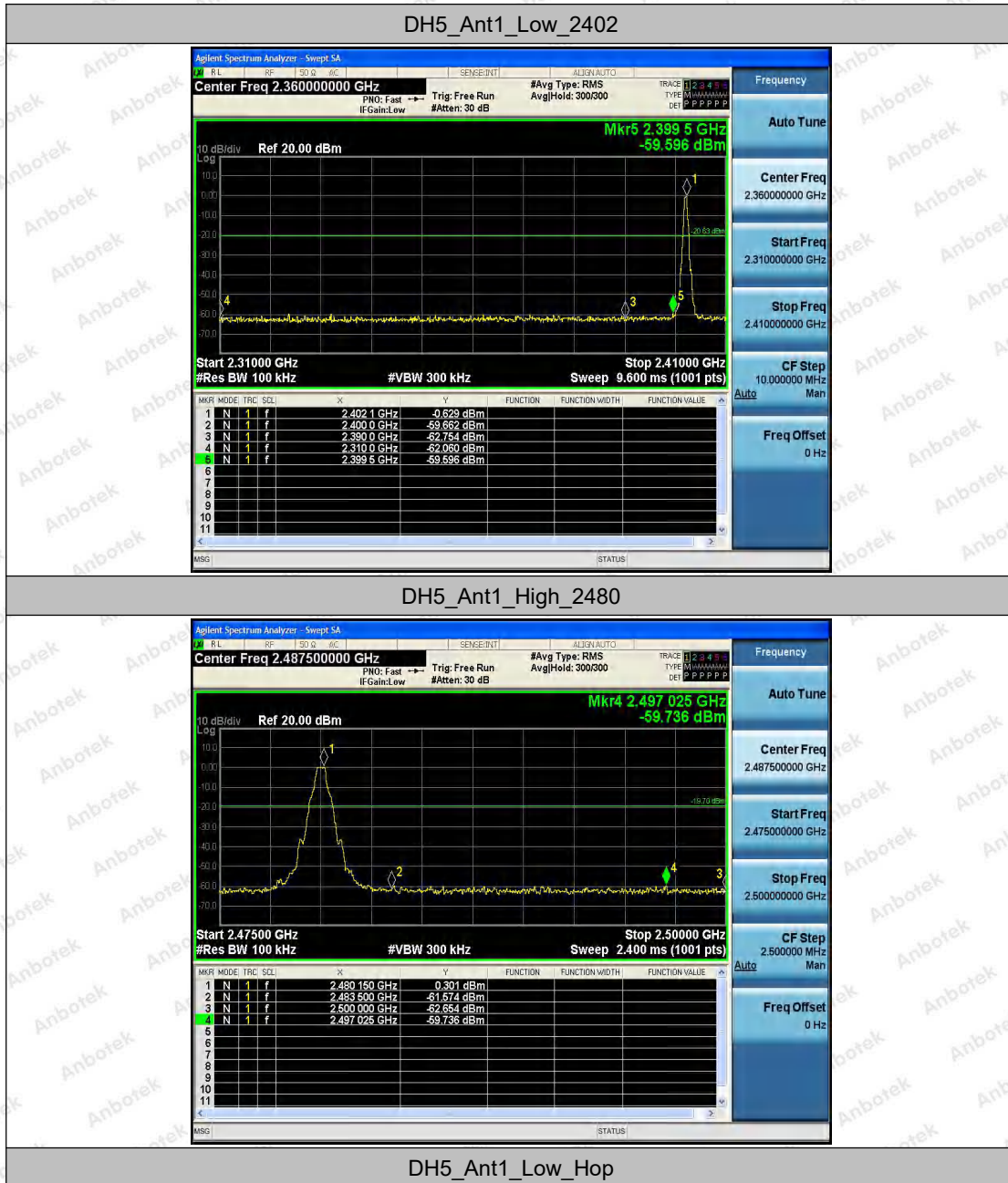
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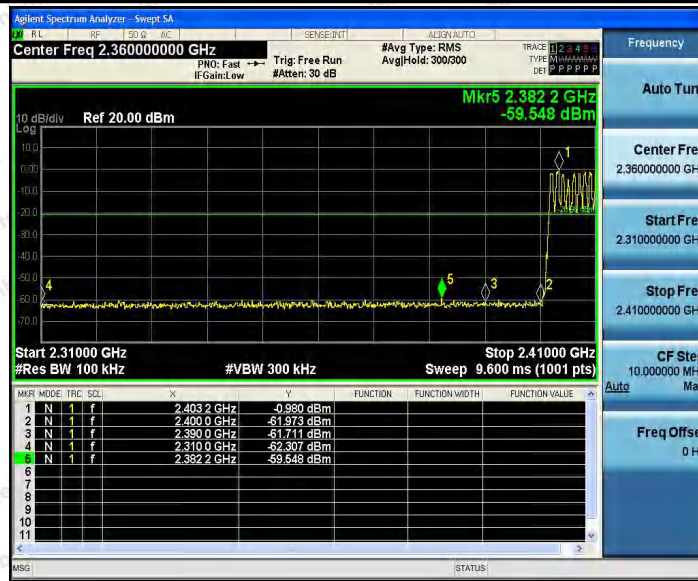
Appendix G: Band edge measurements

Test Result

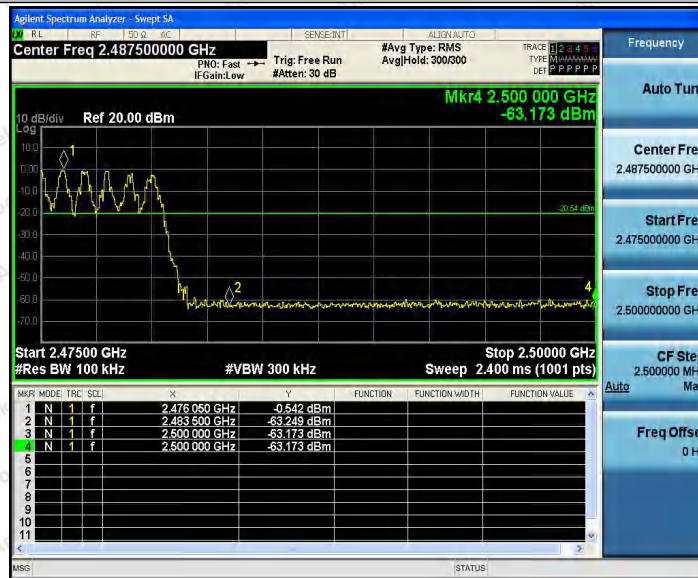
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.63	-59.6	≤-20.63	PASS
		High	2480	0.30	-59.74	≤-19.7	PASS
		Low	Hop	-0.98	-59.55	≤-20.98	PASS
		High	Hop	-0.54	-63.17	≤-20.54	PASS
2DH5	Ant1	Low	2402	-2.94	-58.09	≤-22.94	PASS
		High	2480	-1.07	-58.94	≤-21.07	PASS
		Low	Hop	-5.44	-59.37	≤-25.44	PASS
		High	Hop	-5.43	-61.75	≤-25.43	PASS
3DH5	Ant1	Low	2402	-1.69	-58.01	≤-21.69	PASS
		High	2480	-1.44	-59.74	≤-21.44	PASS
		Low	Hop	-1.88	-60.07	≤-21.88	PASS
		High	Hop	-4.26	-62.43	≤-24.26	PASS

Test Graphs

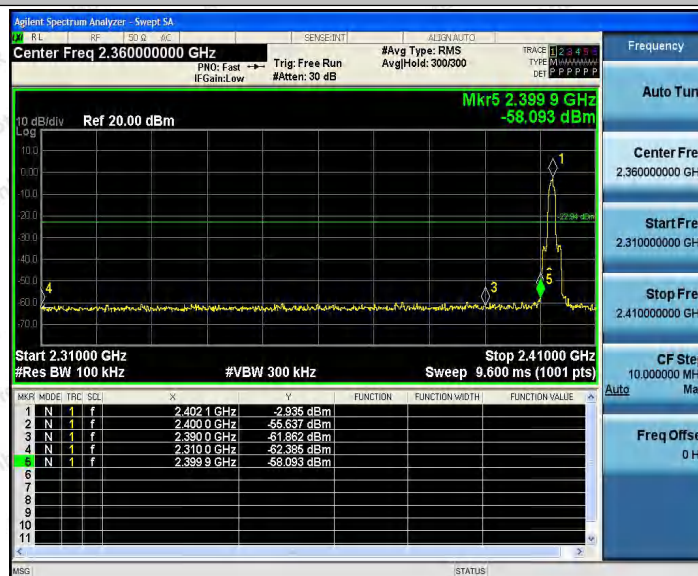




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

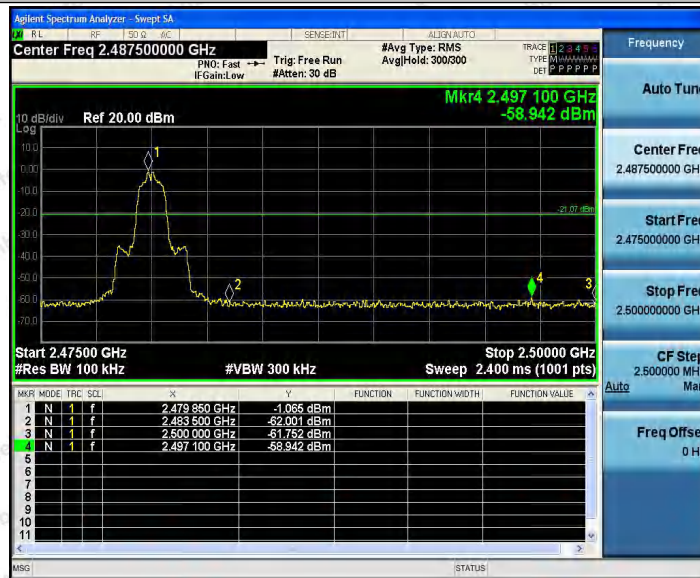


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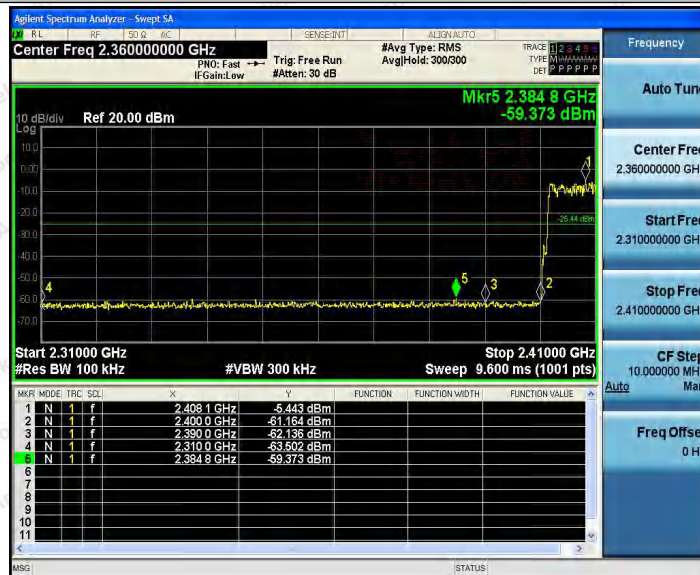
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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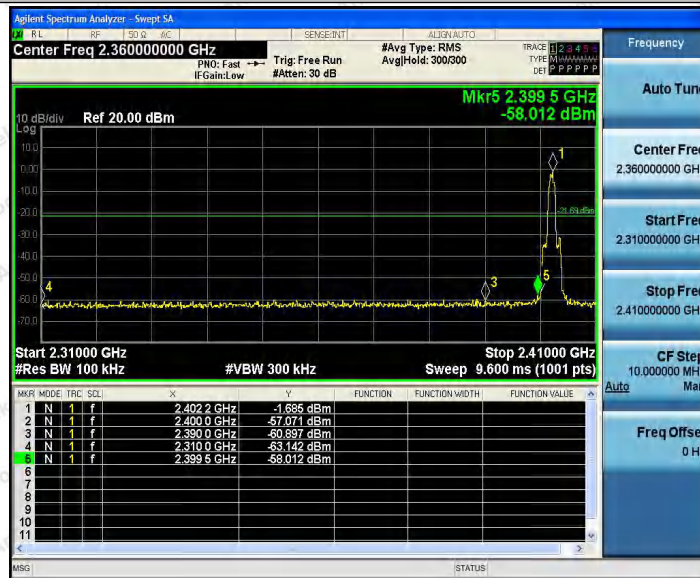
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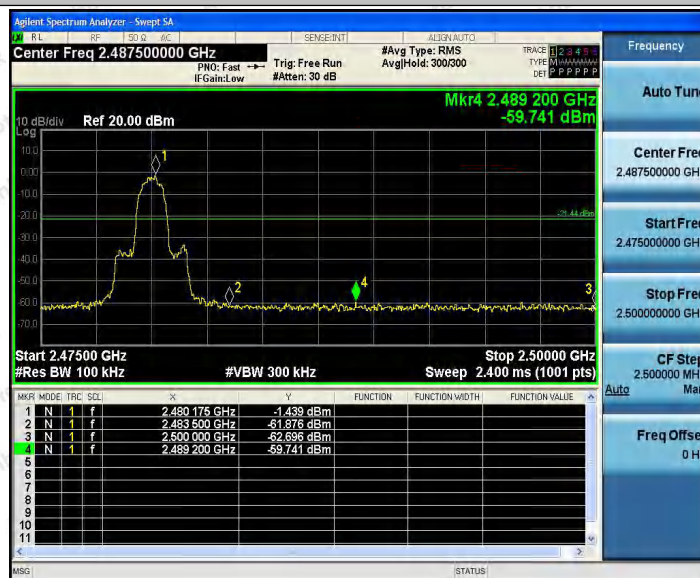
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

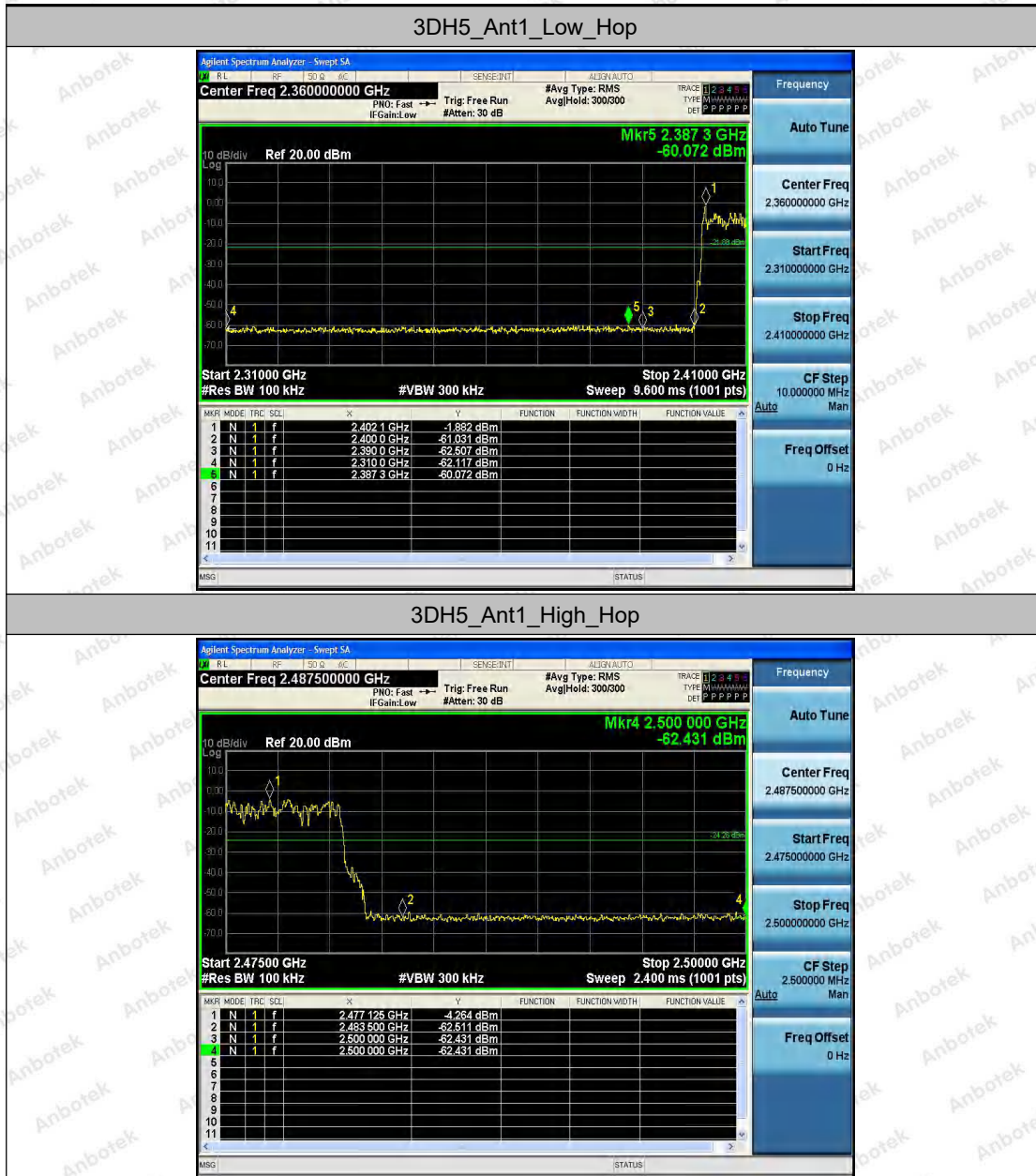


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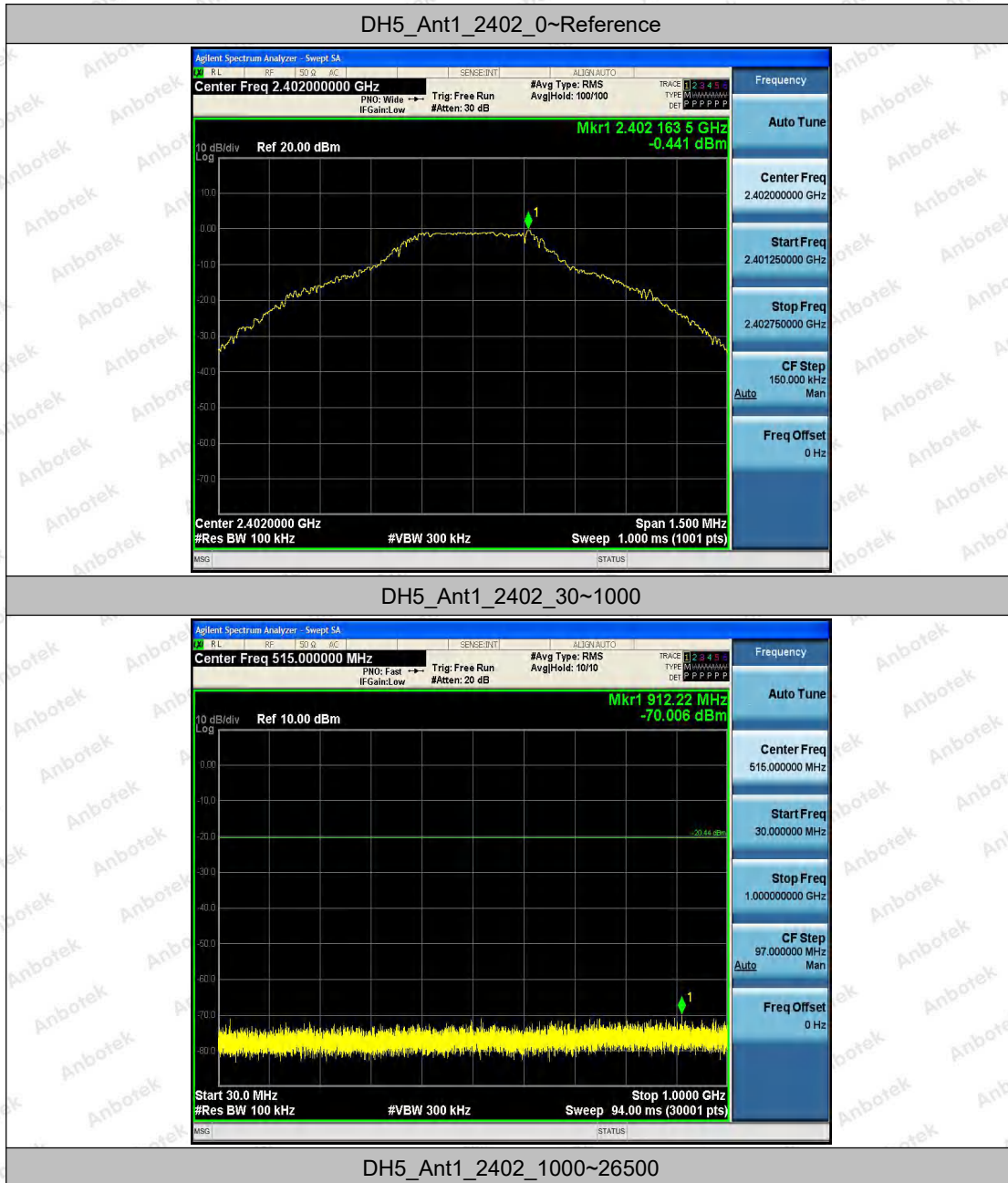
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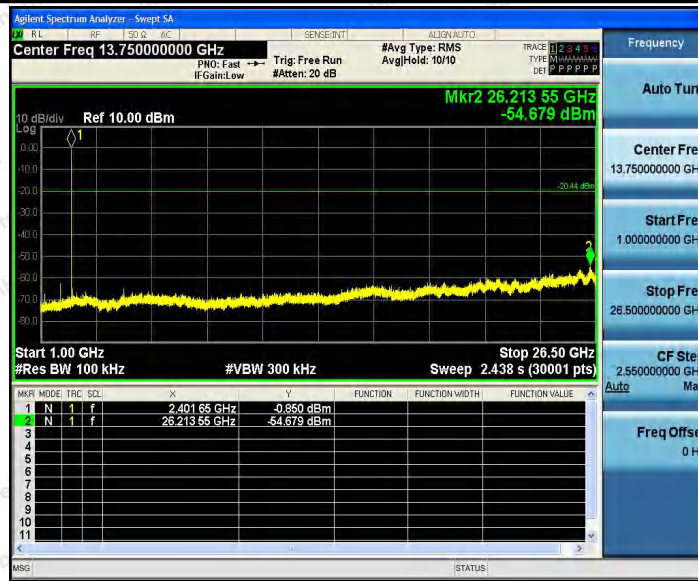
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-70.01	≤-20.44	PASS
			1000~26500	-0.44	-54.68	≤-20.44	PASS
		2441	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-69.93	≤-20.45	PASS
			1000~26500	-0.45	-56.21	≤-20.45	PASS
		2480	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-70.23	≤-19.77	PASS
			1000~26500	0.23	-55.64	≤-19.77	PASS
2DH5	Ant1	2402	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-70.36	≤-21.81	PASS
			1000~26500	-1.81	-54.55	≤-21.81	PASS
		2441	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-69.81	≤-22.07	PASS
			1000~26500	-2.07	-55.08	≤-22.07	PASS
		2480	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-70.62	≤-21.49	PASS
			1000~26500	-1.49	-55.6	≤-21.49	PASS
3DH5	Ant1	2402	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-70.63	≤-22.54	PASS
			1000~26500	-2.54	-55.15	≤-22.54	PASS
		2441	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-70.37	≤-22.34	PASS
			1000~26500	-2.34	-55.87	≤-22.34	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-70.03	≤-21.06	PASS
			1000~26500	-1.06	-55.47	≤-21.06	PASS

Test Graphs

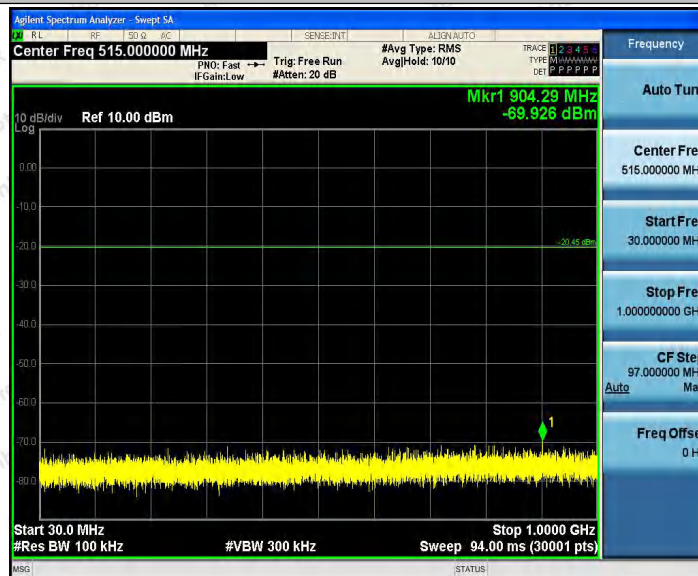




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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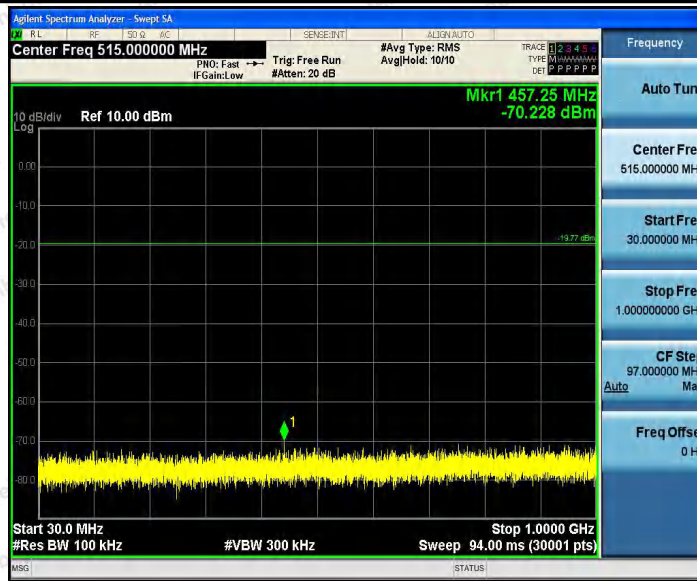


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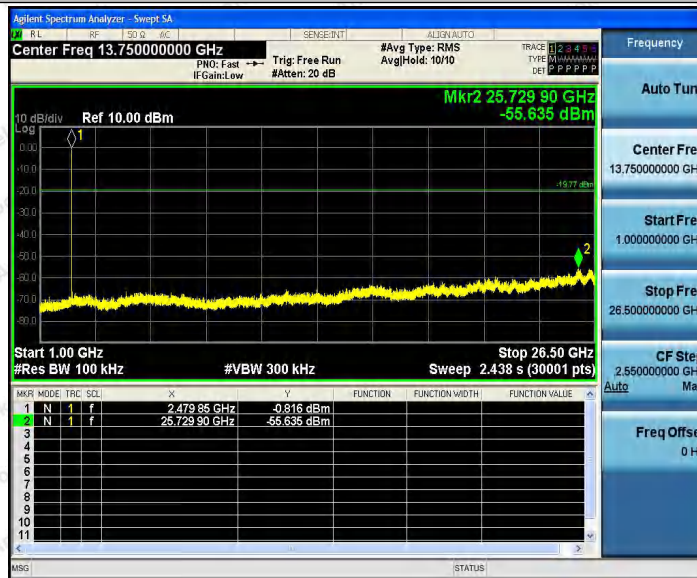
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

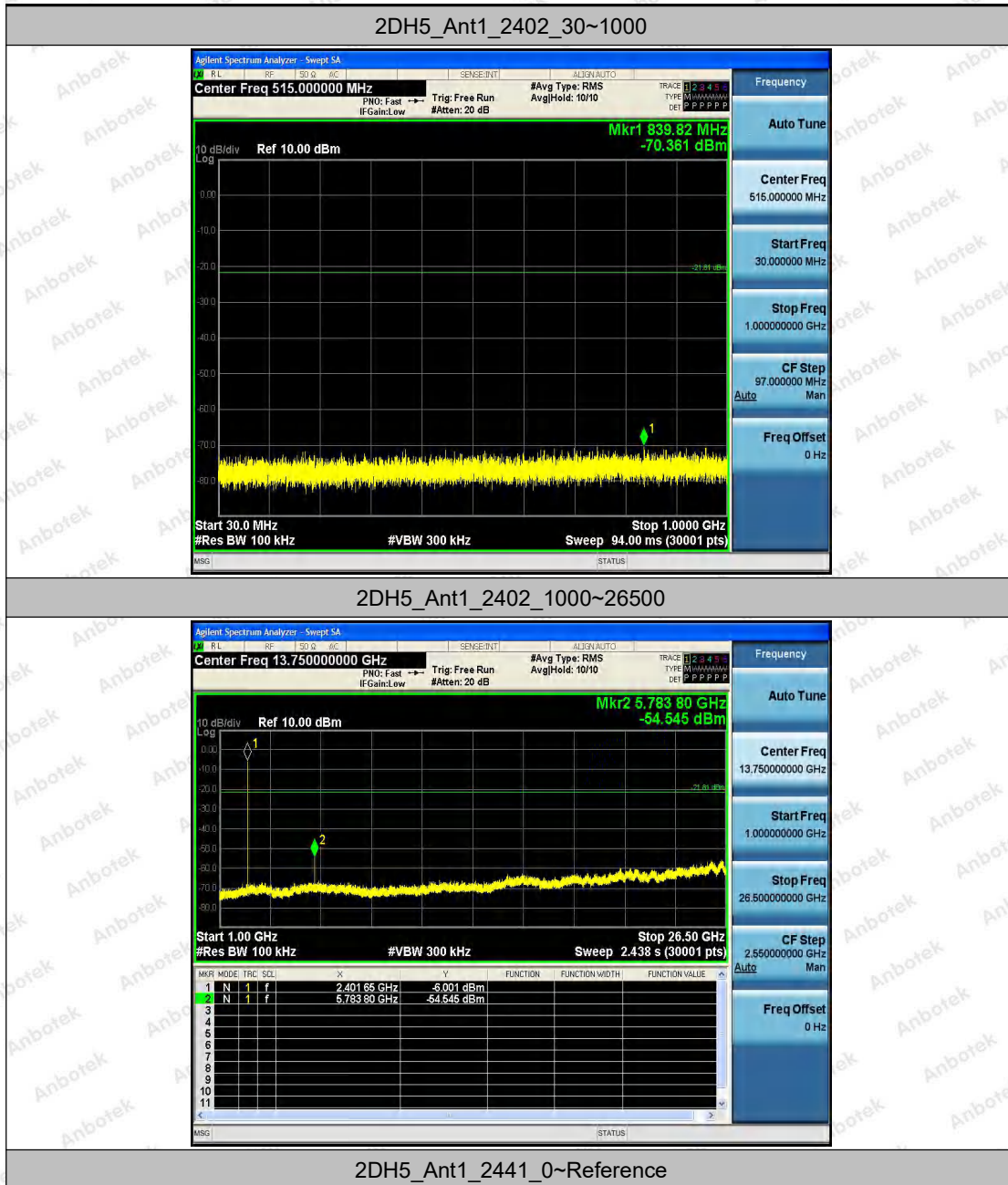


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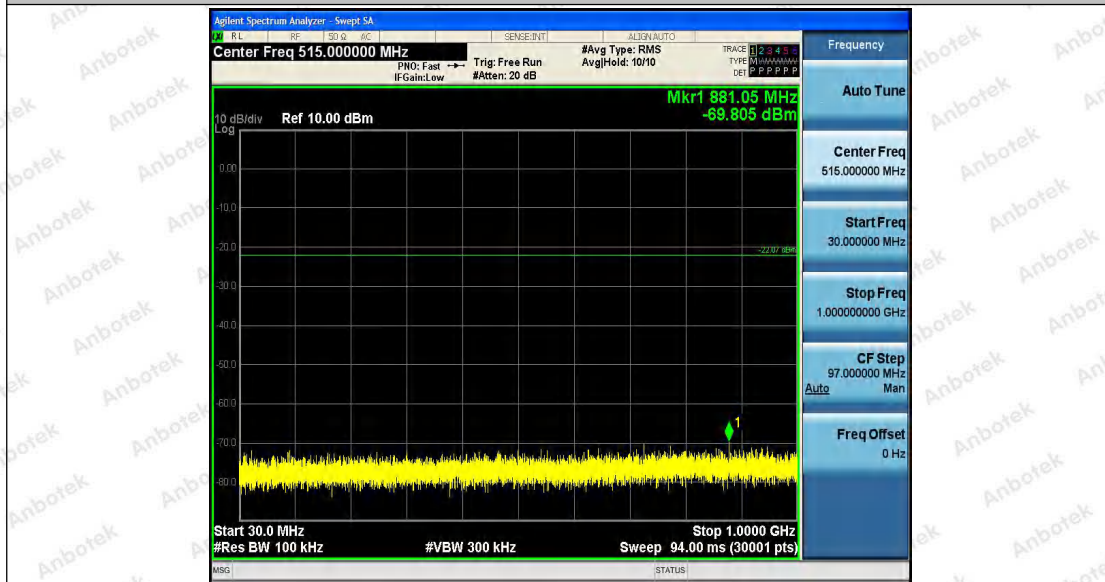
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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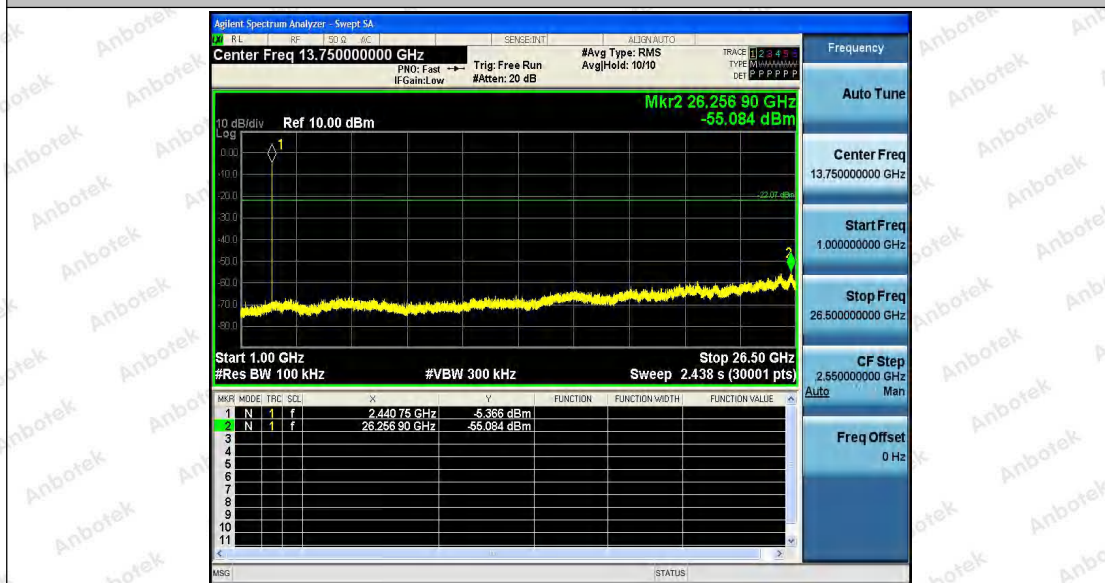
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

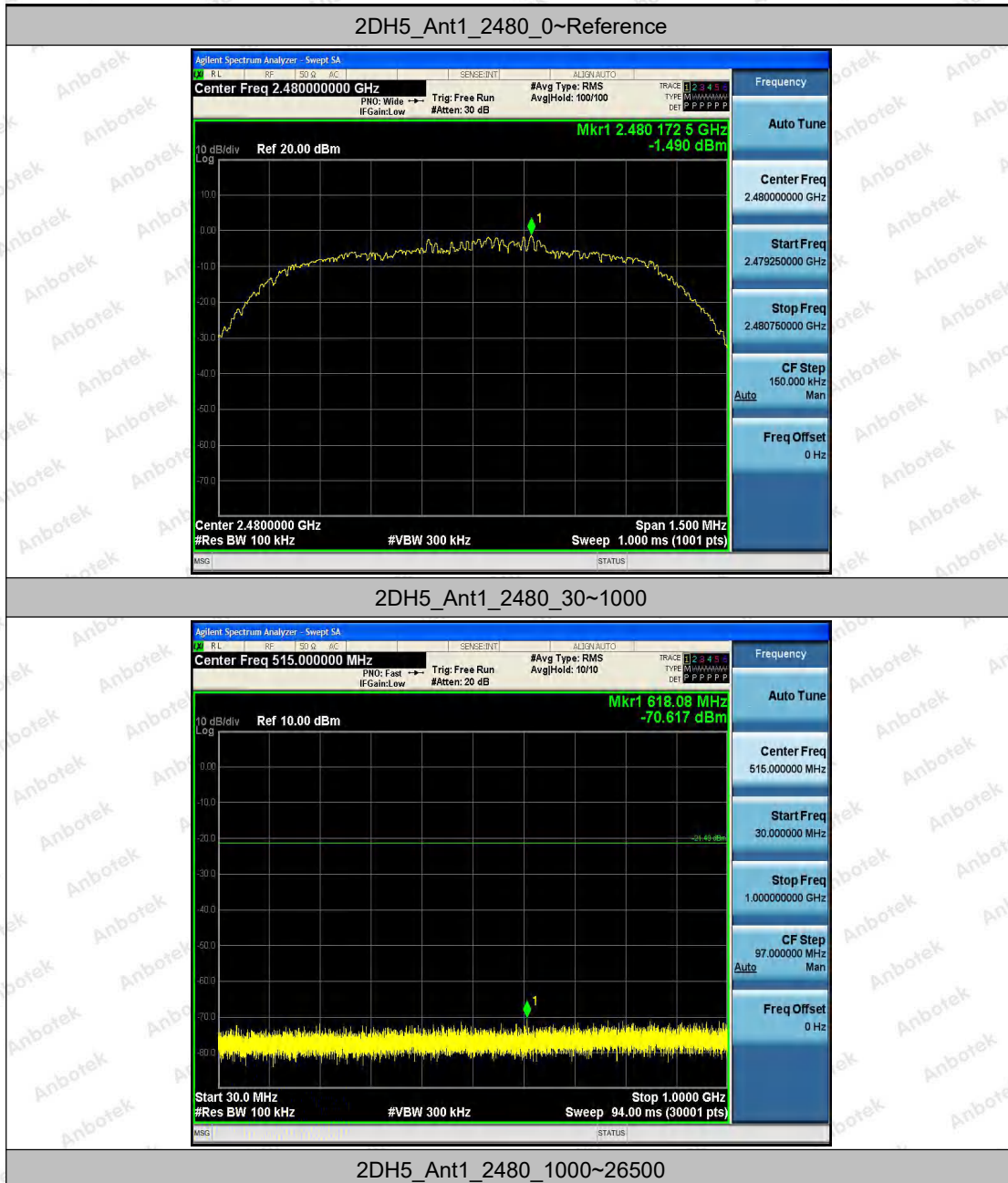


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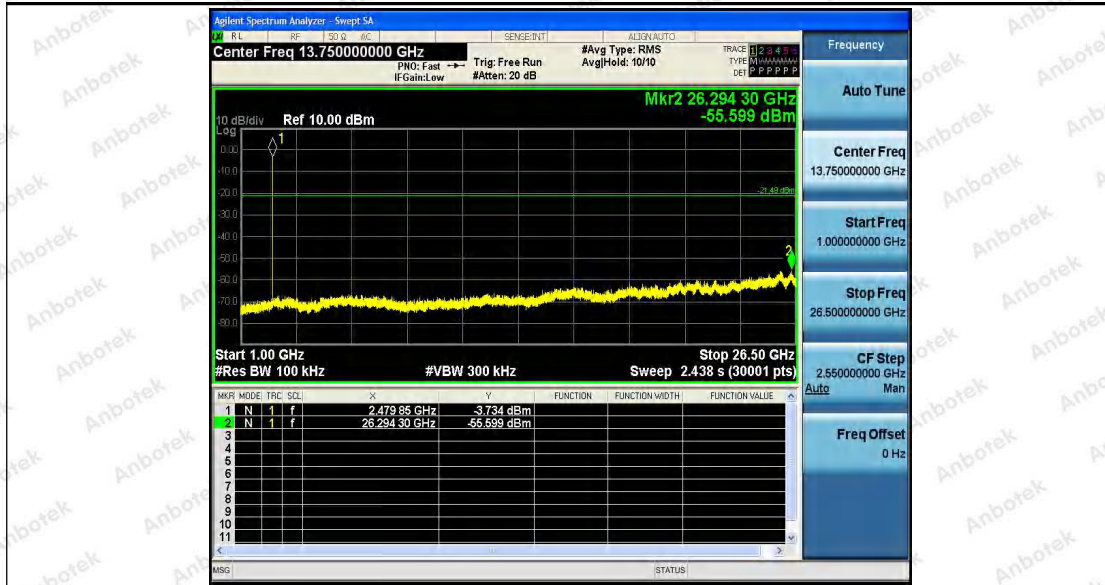


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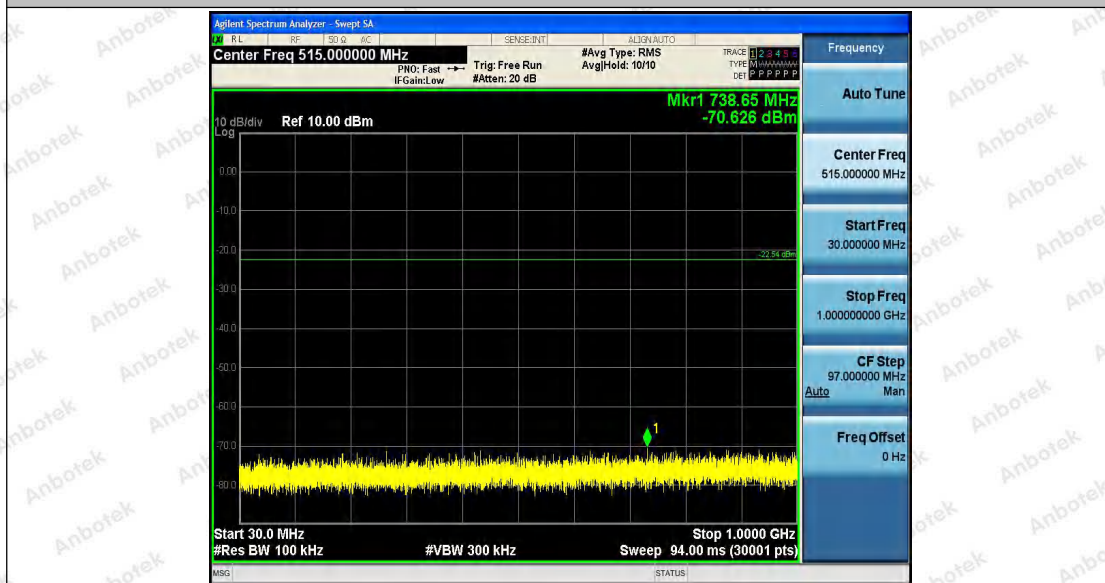
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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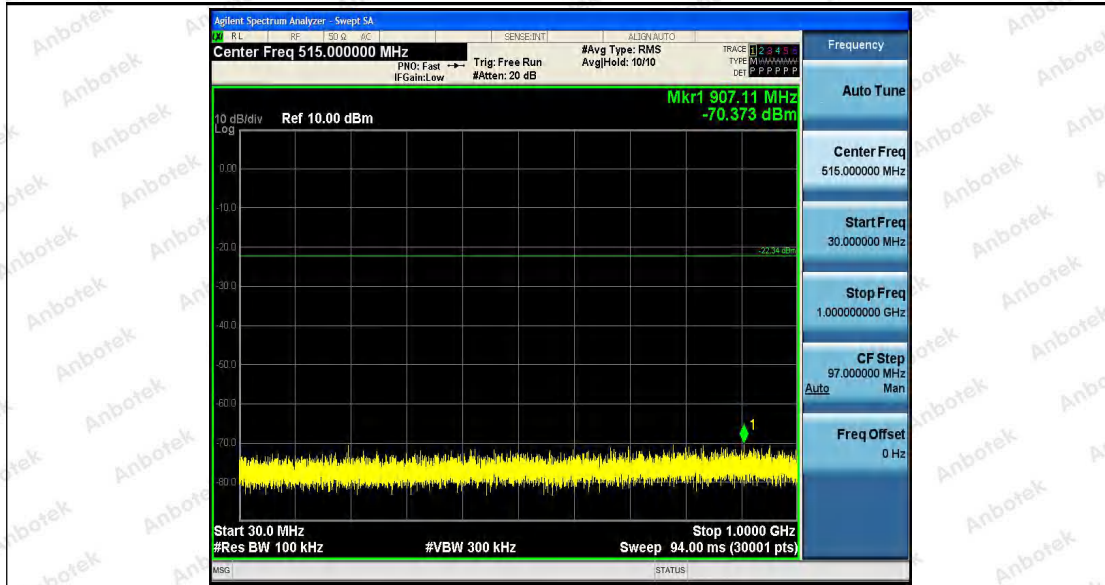


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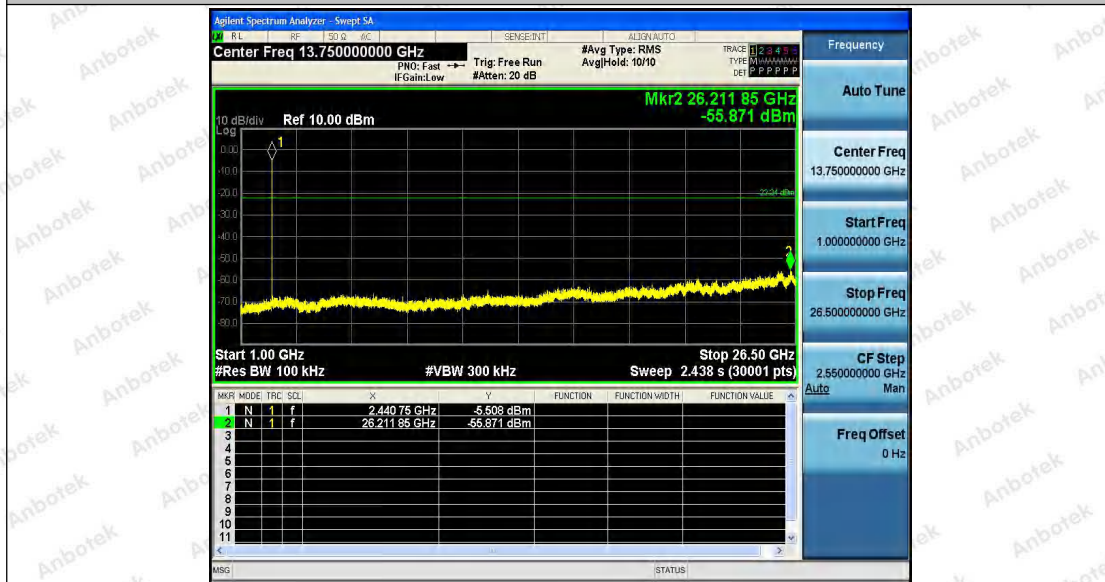
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

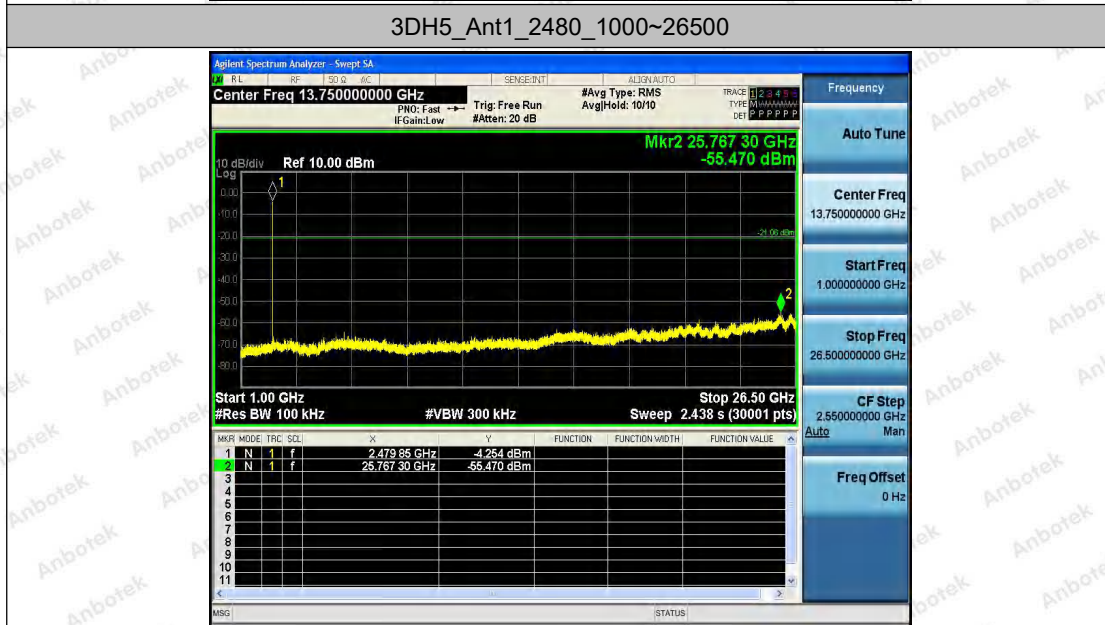
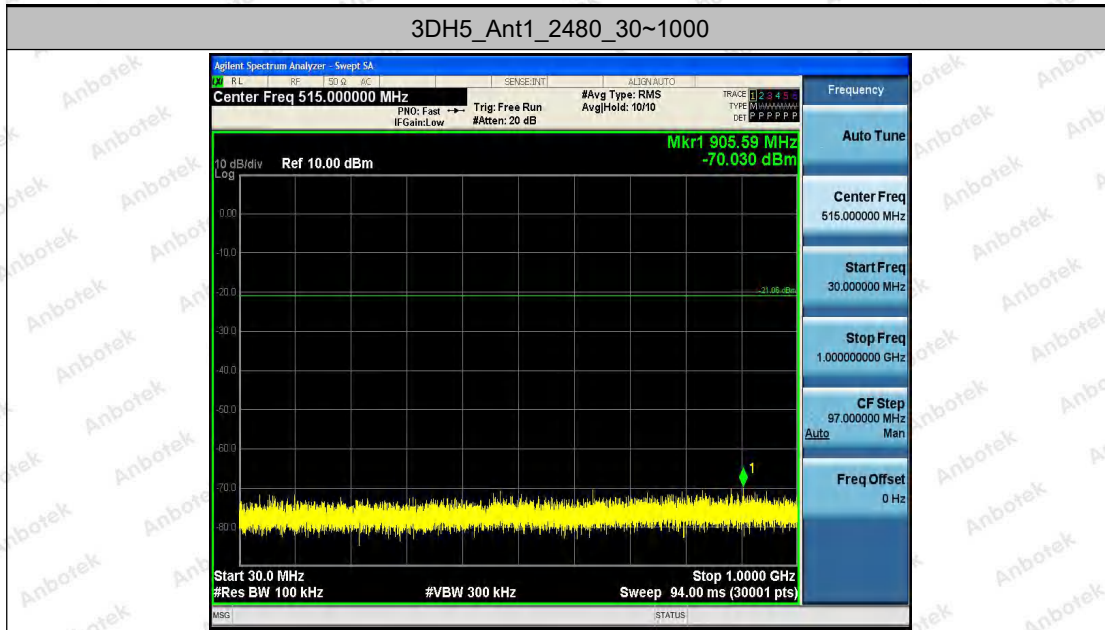


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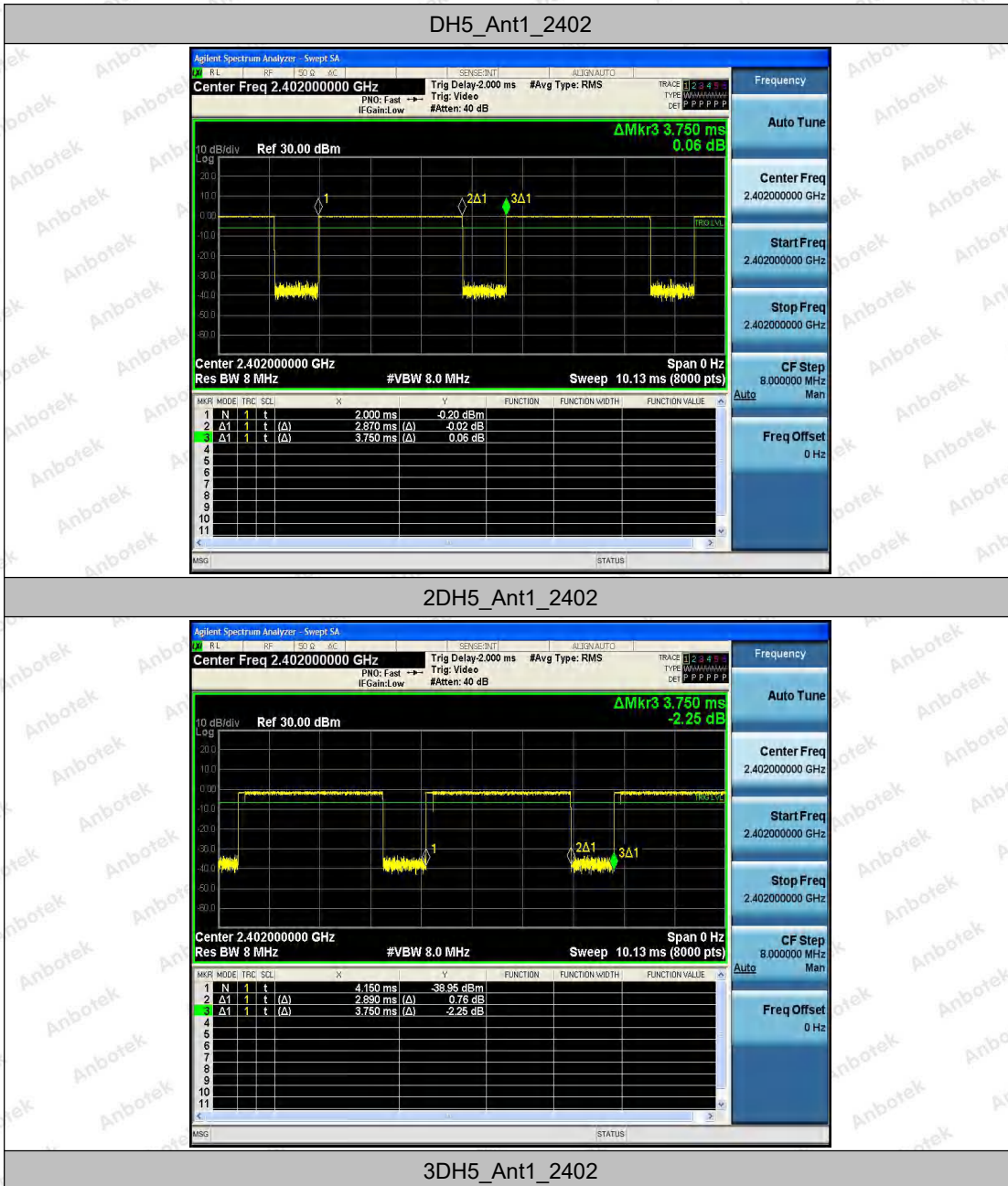
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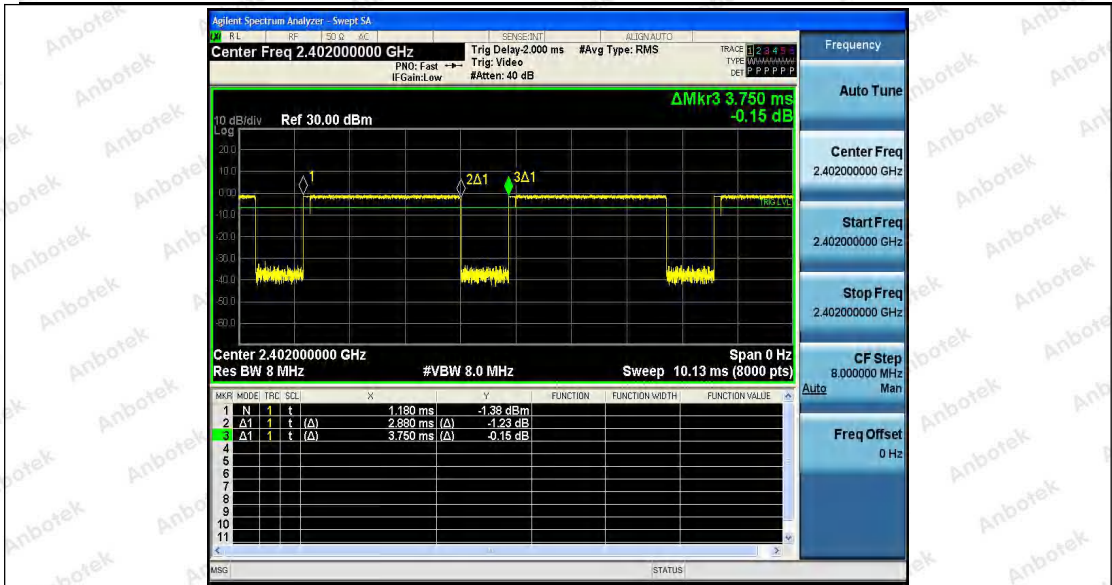
Appendix I: Duty Cycle

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
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---