

Appendix Test Data

Report No.:	18220WC20026701	Test Sample No.:	1-2-2
Start Test Date:	2022.2.22	Finish Test Date:	2022.2.24
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	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	0.942	2401.538	2402.480	---	PASS
		2441	0.933	2440.547	2441.480	---	PASS
		2480	0.939	2479.538	2480.477	---	PASS
2DH5	Ant1	2402	1.254	2401.376	2402.630	---	PASS
		2441	1.320	2440.340	2441.660	---	PASS
		2480	1.323	2479.340	2480.663	---	PASS
3DH5	Ant1	2402	1.305	2401.346	2402.651	---	PASS
		2441	1.341	2440.328	2441.669	---	PASS
		2480	1.311	2479.346	2480.657	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2480



3DH5_Ant1_2402



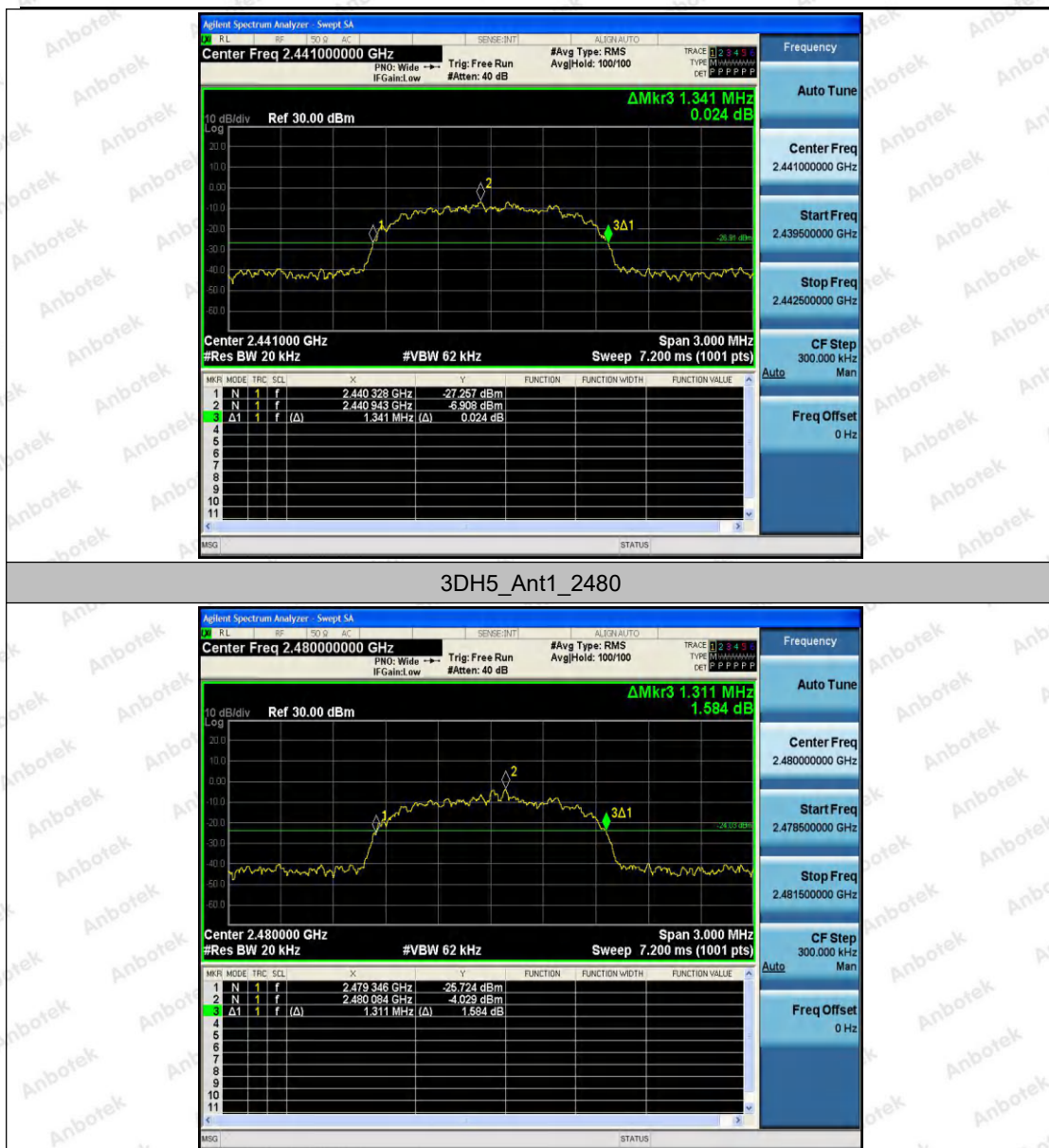
3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

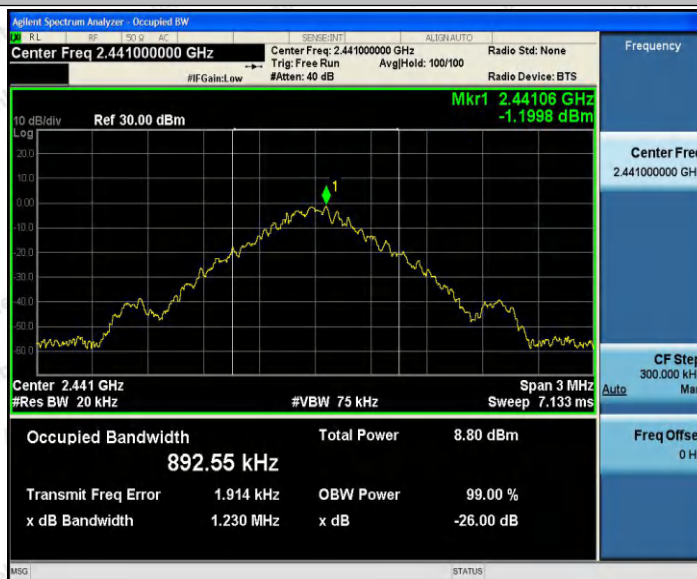
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89371	2401.55 5	2402.449	---	PASS
		2441	0.89255	2440.55 6	2441.448	---	PASS
		2480	0.88754	2479.55 7	2480.445	---	PASS
2DH5	Ant1	2402	1.1960	2401.40 4	2402.600	---	PASS
		2441	1.1998	2440.40 3	2441.602	---	PASS
		2480	1.1944	2479.40 6	2480.601	---	PASS
3DH5	Ant1	2402	1.2048	2401.39 2	2402.597	---	PASS
		2441	1.2058	2440.39 1	2441.597	---	PASS
		2480	1.2030	2479.39 3	2480.596	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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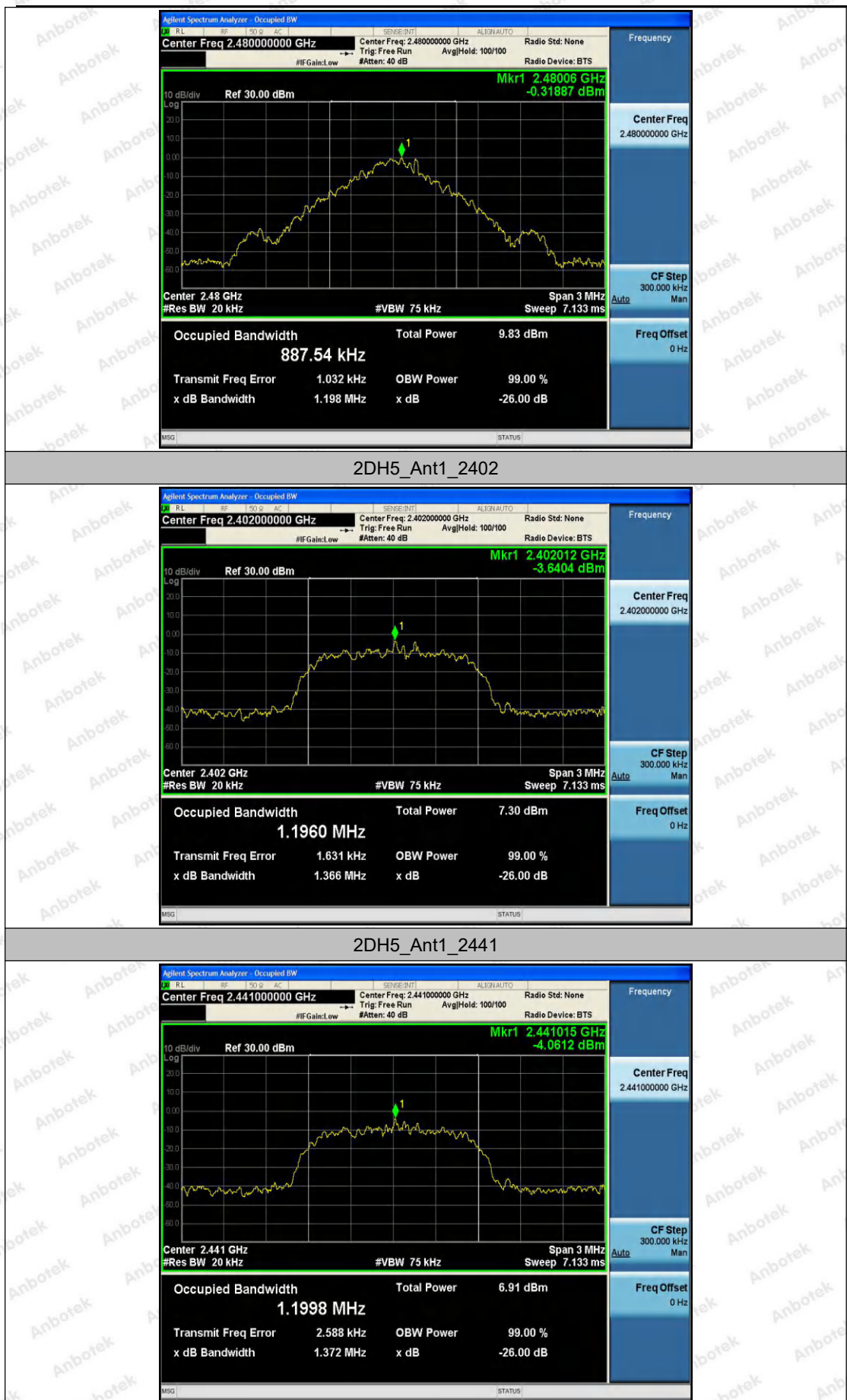
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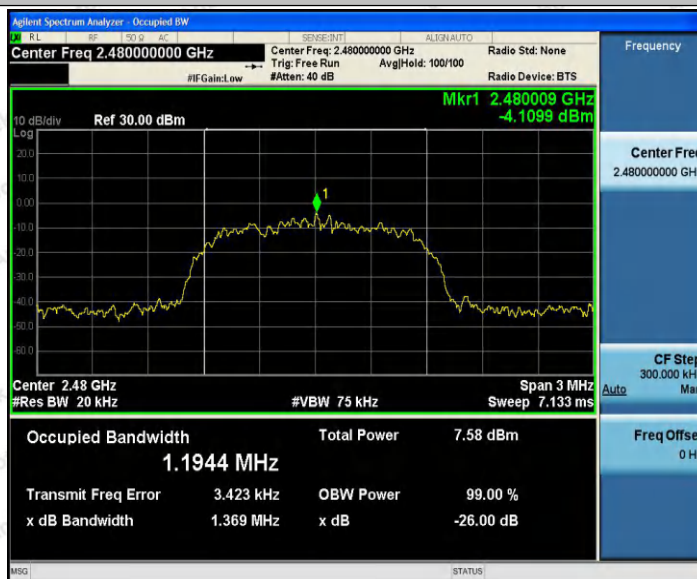
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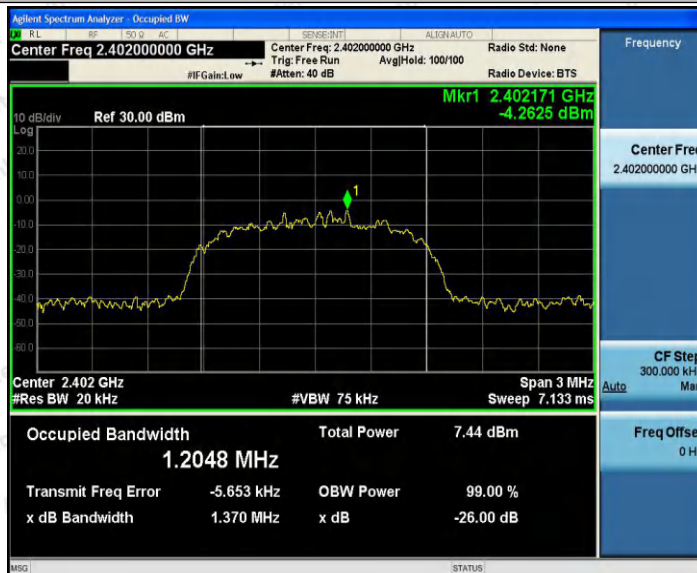
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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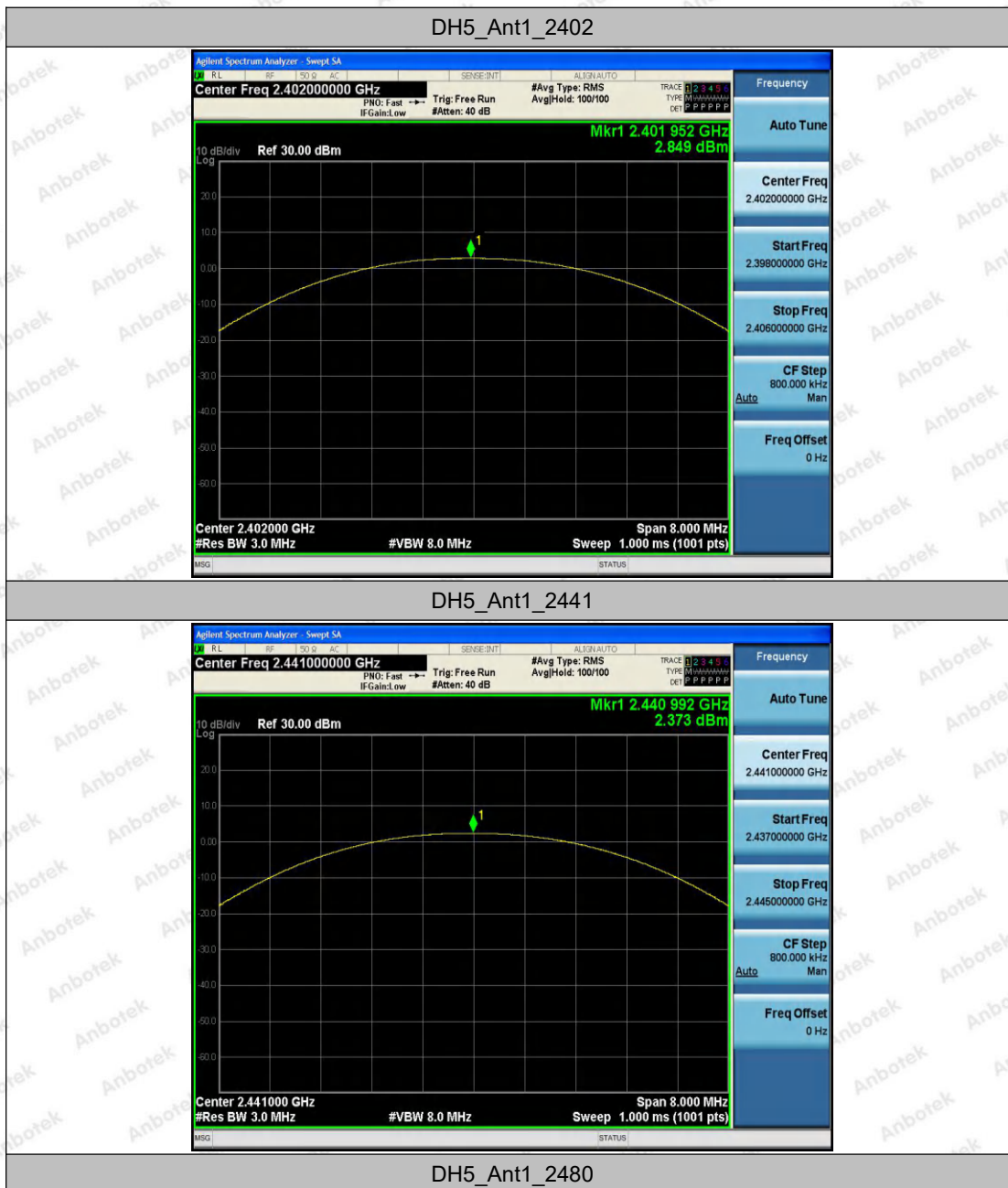
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.85	≤20.97	PASS
		2441	2.37	≤20.97	PASS
		2480	3.22	≤20.97	PASS
2DH5	Ant1	2402	2.39	≤20.97	PASS
		2441	1.79	≤20.97	PASS
		2480	2.63	≤20.97	PASS
3DH5	Ant1	2402	2.45	≤20.97	PASS
		2441	1.99	≤20.97	PASS
		2480	2.74	≤20.97	PASS

Test Graphs



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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	0.838	≥ 0.628	PASS
2DH5	Ant1	Hop	1.298	≥ 0.882	PASS
3DH5	Ant1	Hop	1.162	≥ 0.894	PASS

Test Graphs

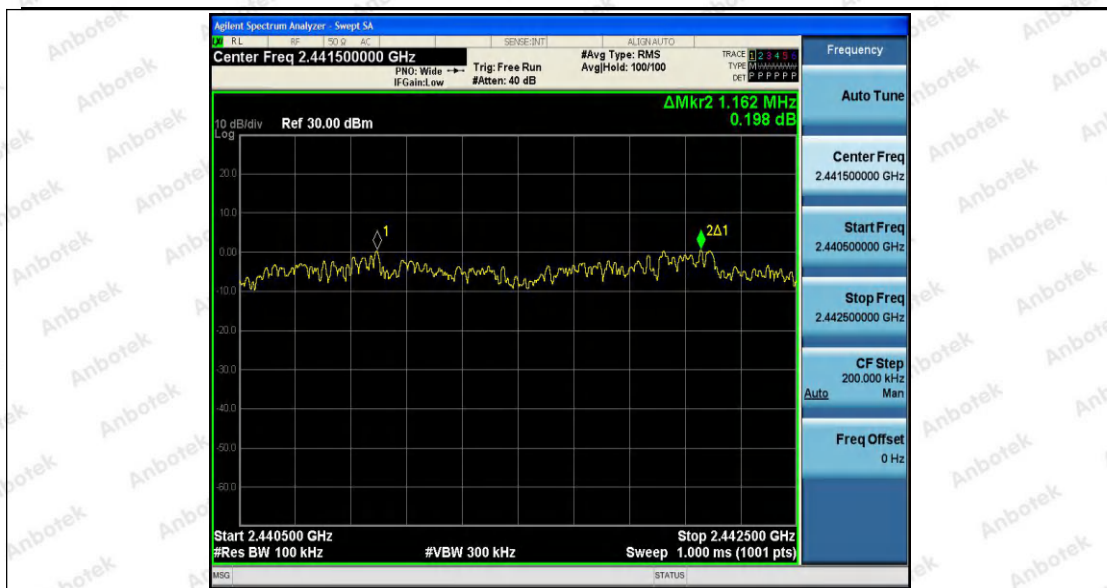


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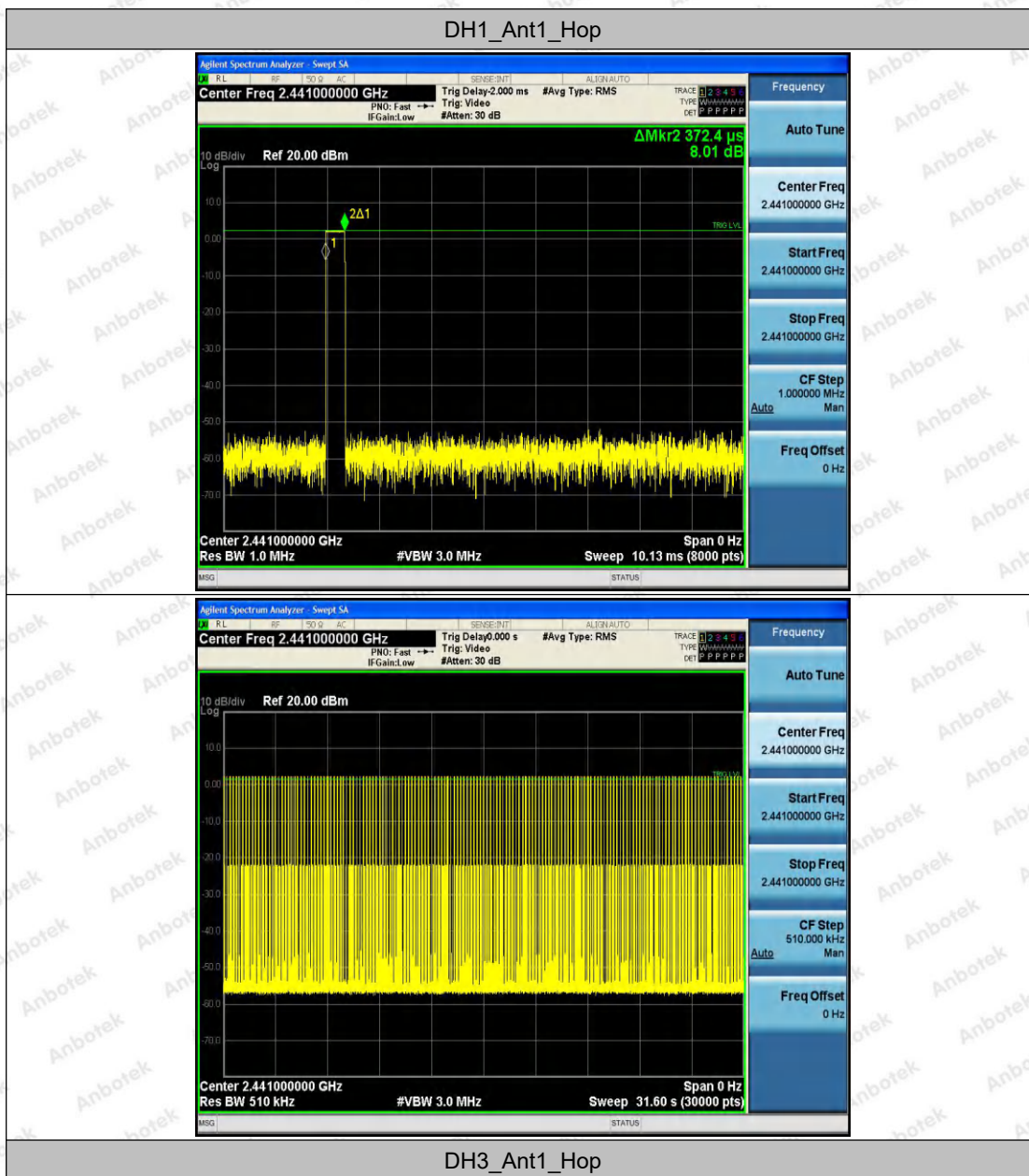
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	315	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS

Test Graphs



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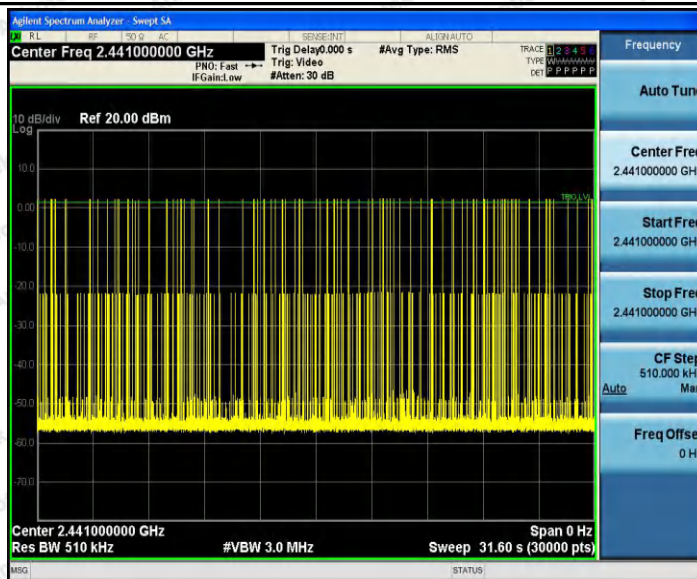
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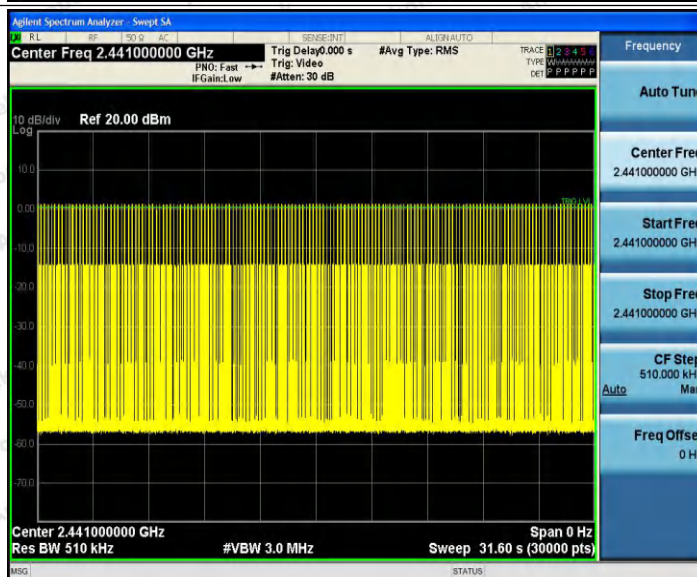
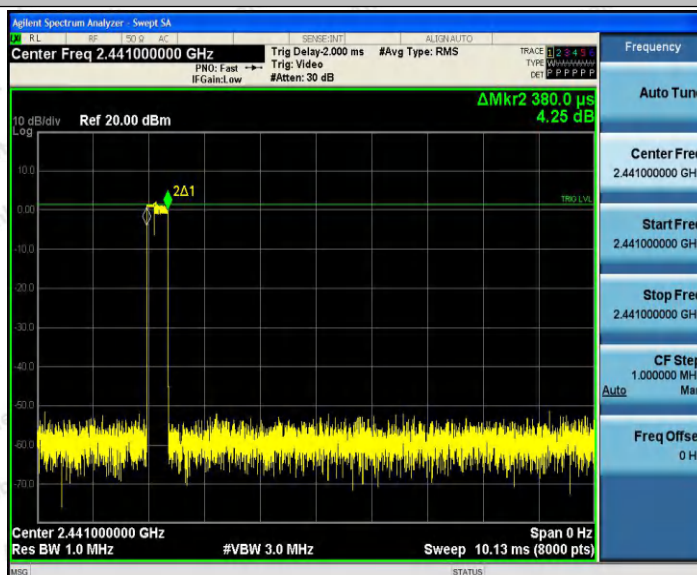
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DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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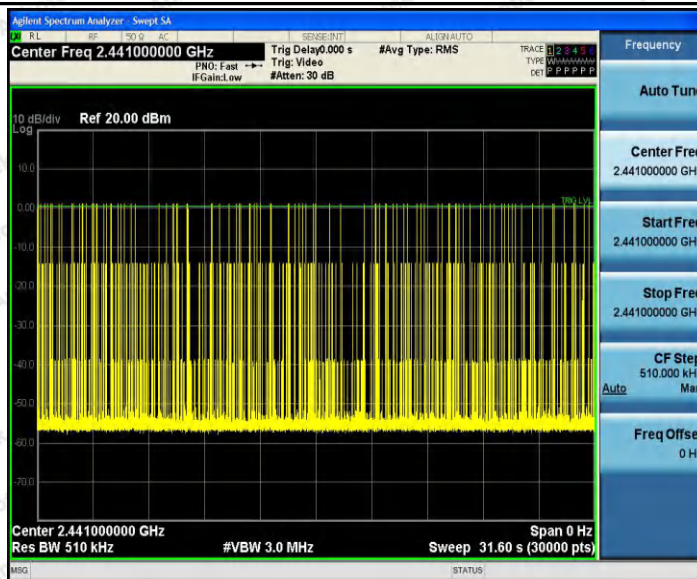
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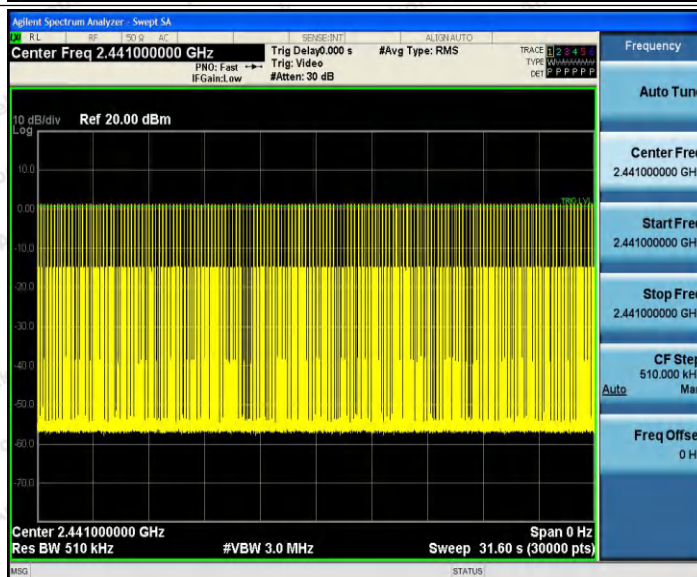
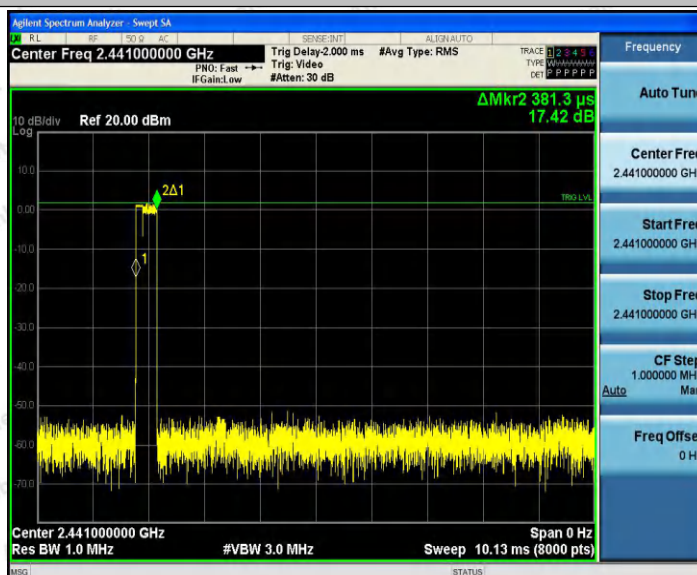
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop

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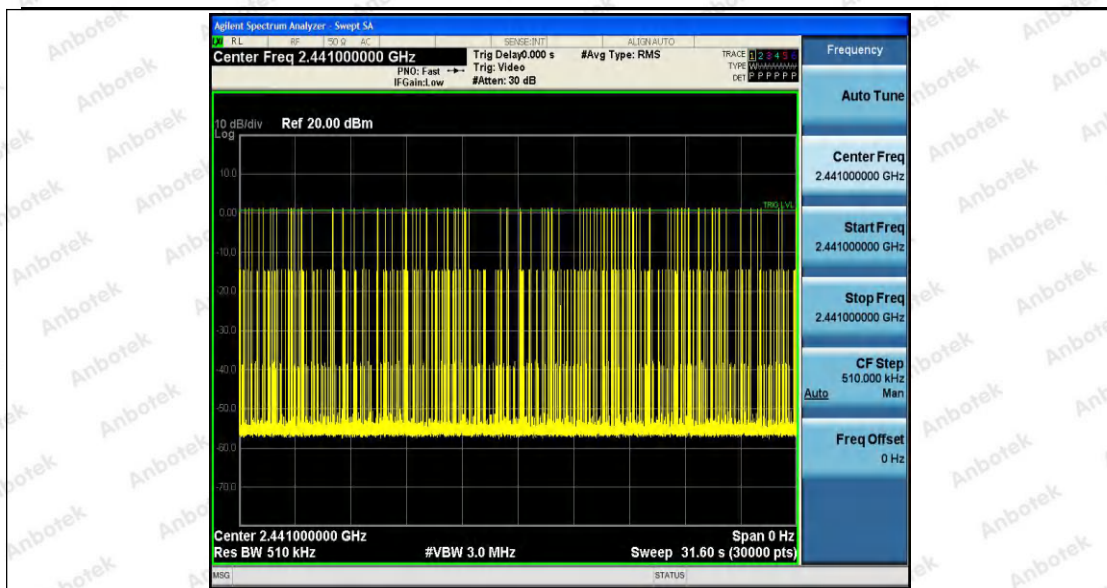
3DH5_Ant1_Hop

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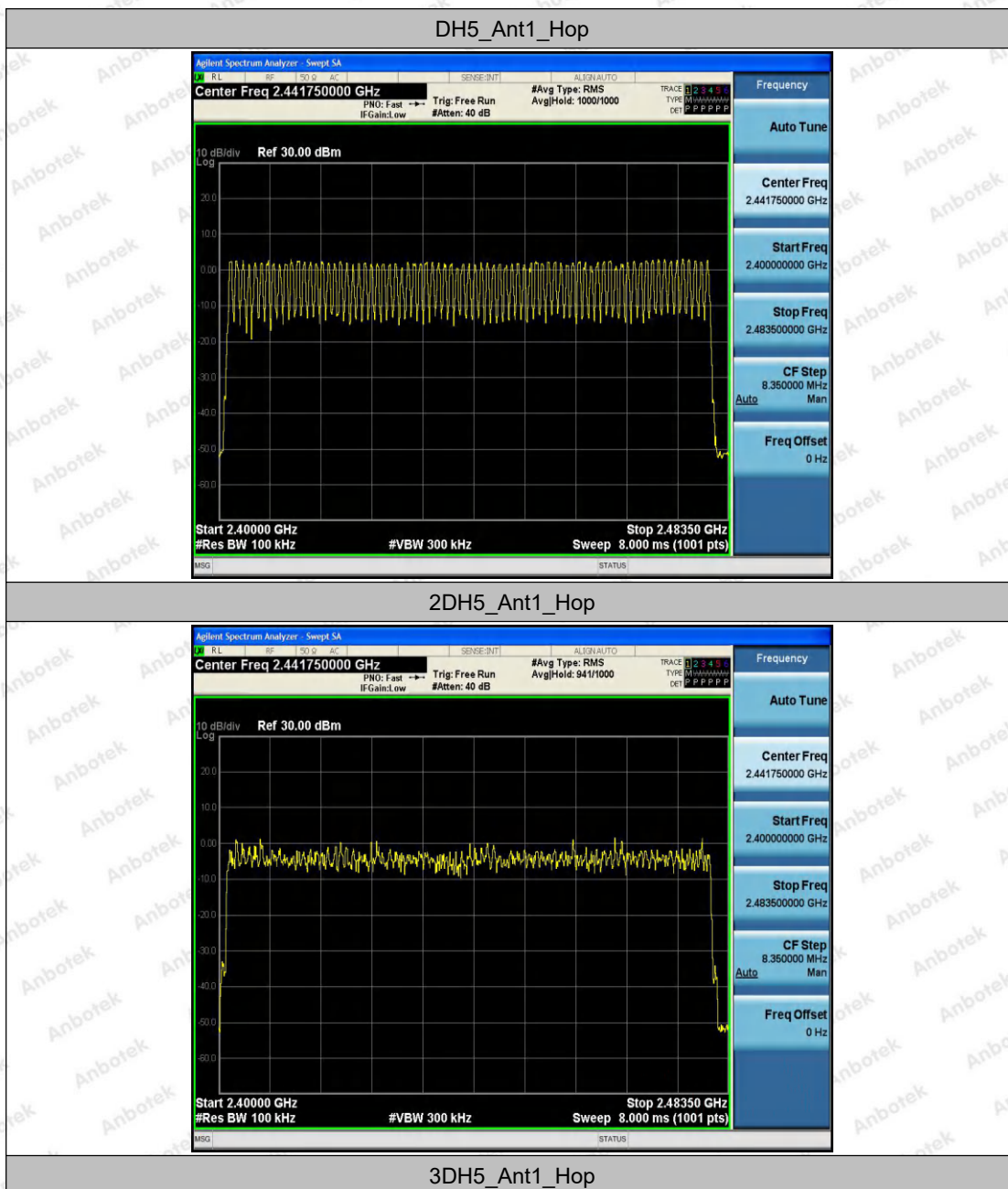
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Appendix F: Number of hopping channels

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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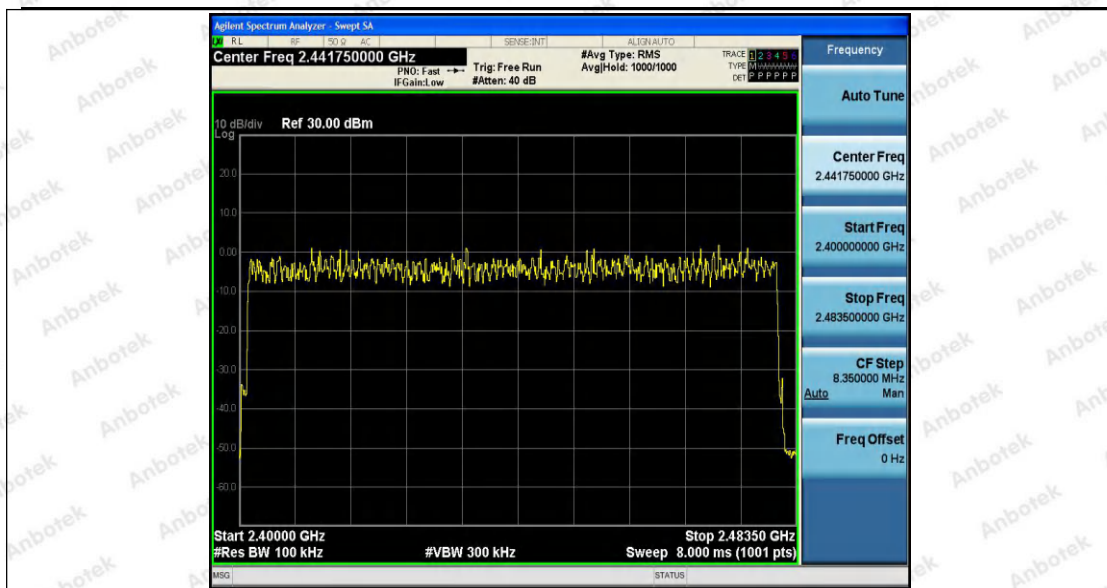
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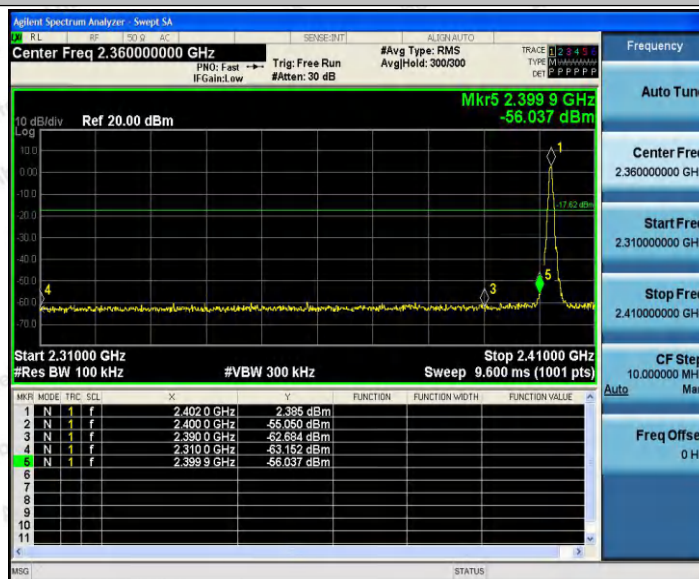
Appendix G: Band edge measurements

Test Result

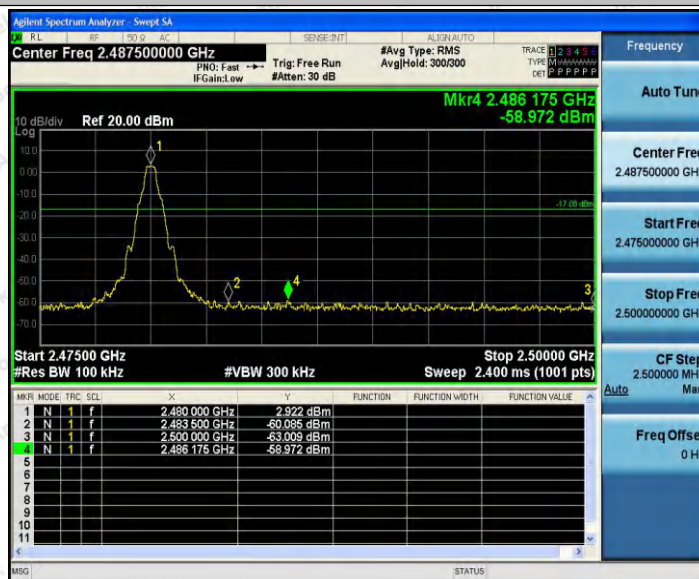
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.39	-56.04	≤-17.62	PASS
		High	2480	2.92	-58.97	≤-17.08	PASS
		Low	Hop	2.21	-54.29	≤-17.79	PASS
		High	Hop	2.83	-62.75	≤-17.17	PASS
2DH5	Ant1	Low	2402	1.19	-55.17	≤-18.81	PASS
		High	2480	1.73	-59.67	≤-18.27	PASS
		Low	Hop	-2.43	-59.81	≤-22.43	PASS
		High	Hop	-1.95	-60.25	≤-21.95	PASS
3DH5	Ant1	Low	2402	1.57	-54.13	≤-18.43	PASS
		High	2480	1.85	-59.01	≤-18.16	PASS
		Low	Hop	0.85	-60.11	≤-19.15	PASS
		High	Hop	1.85	-61.99	≤-18.15	PASS

Test Graphs

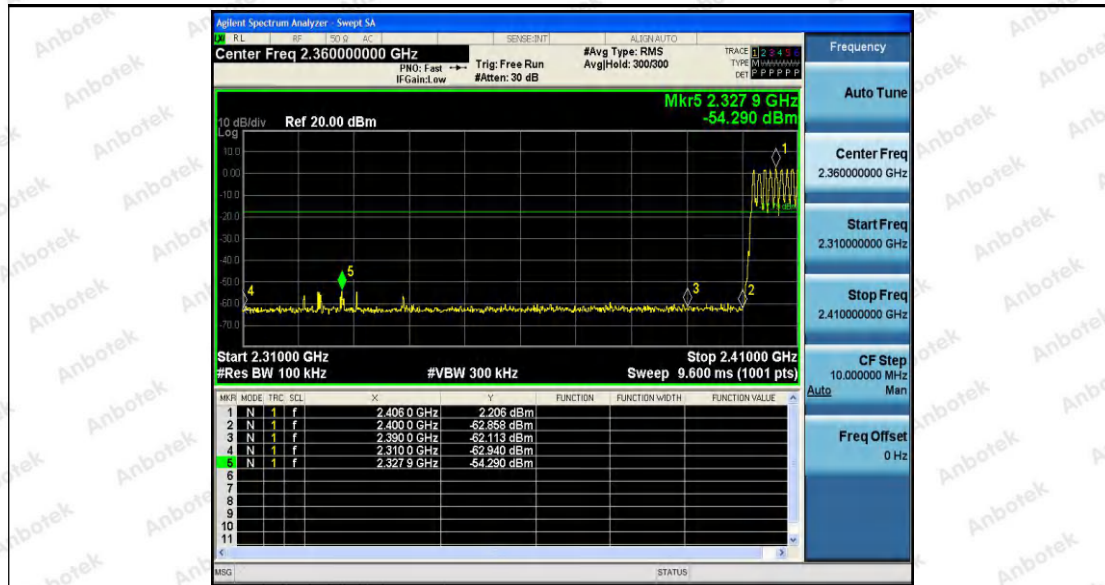
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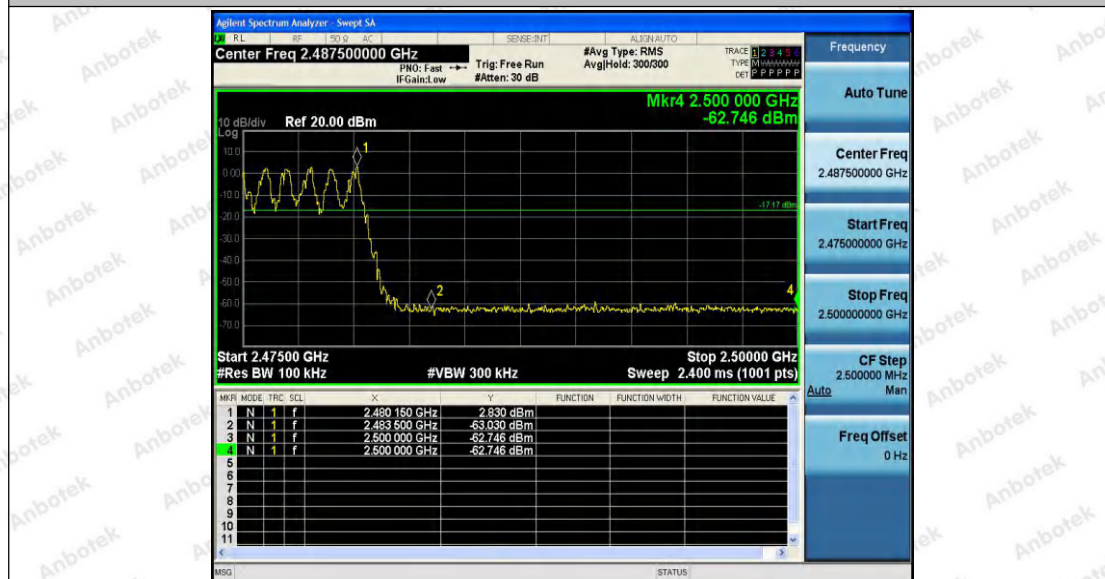
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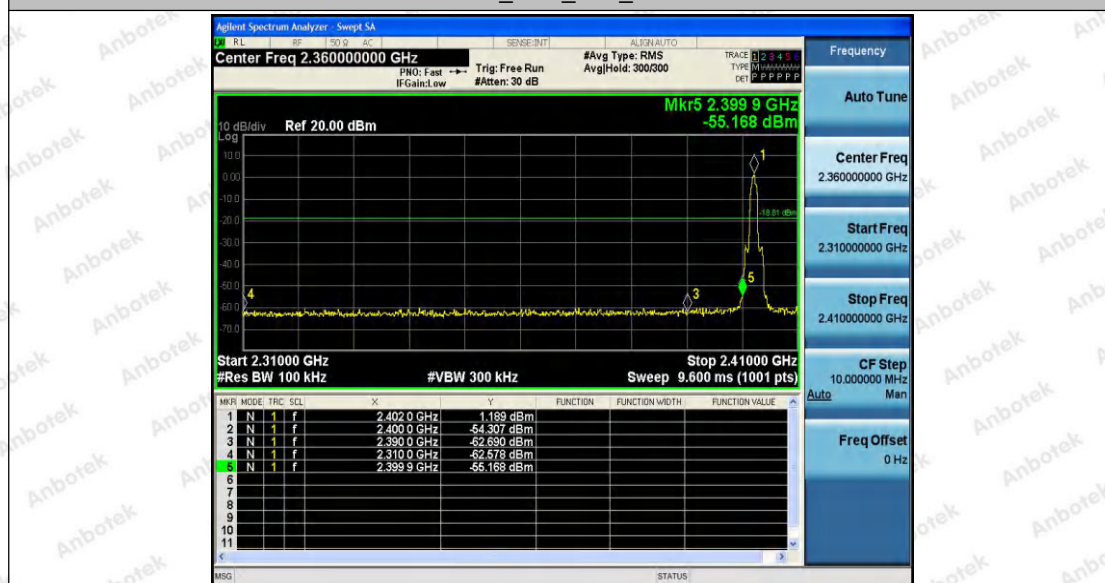
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



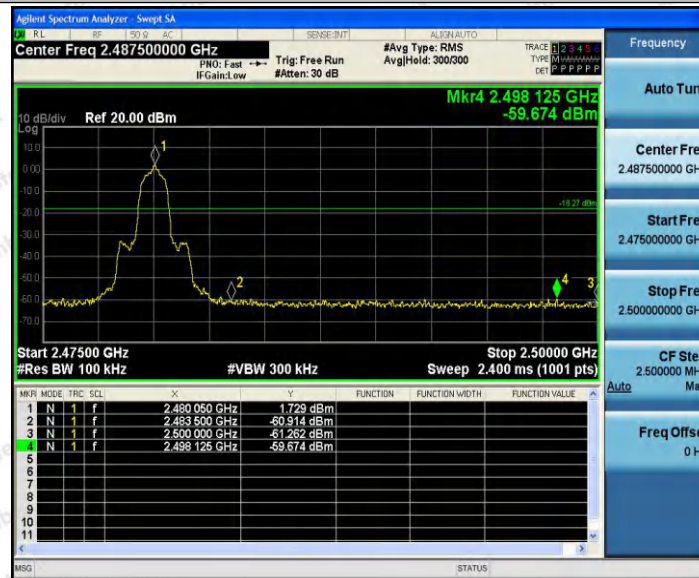
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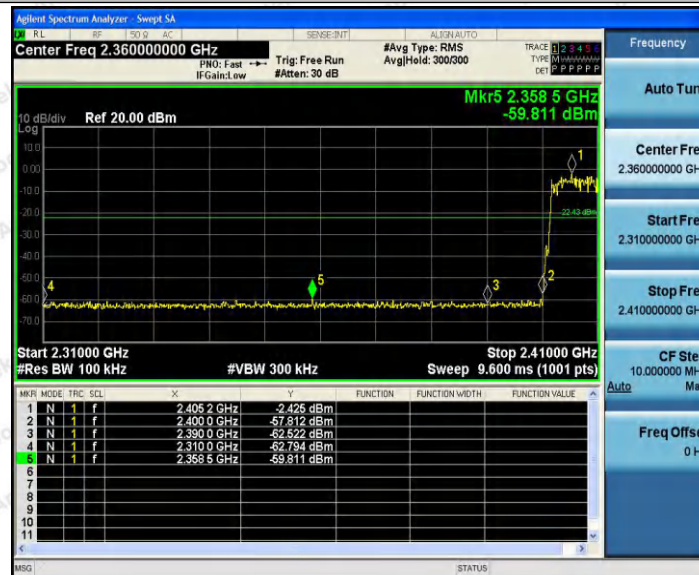
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



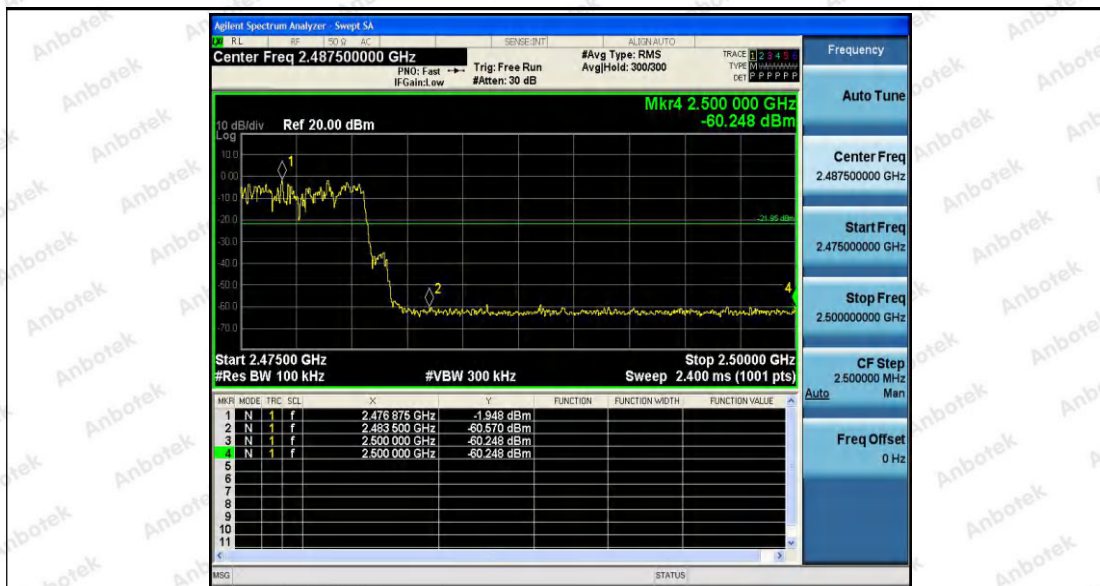
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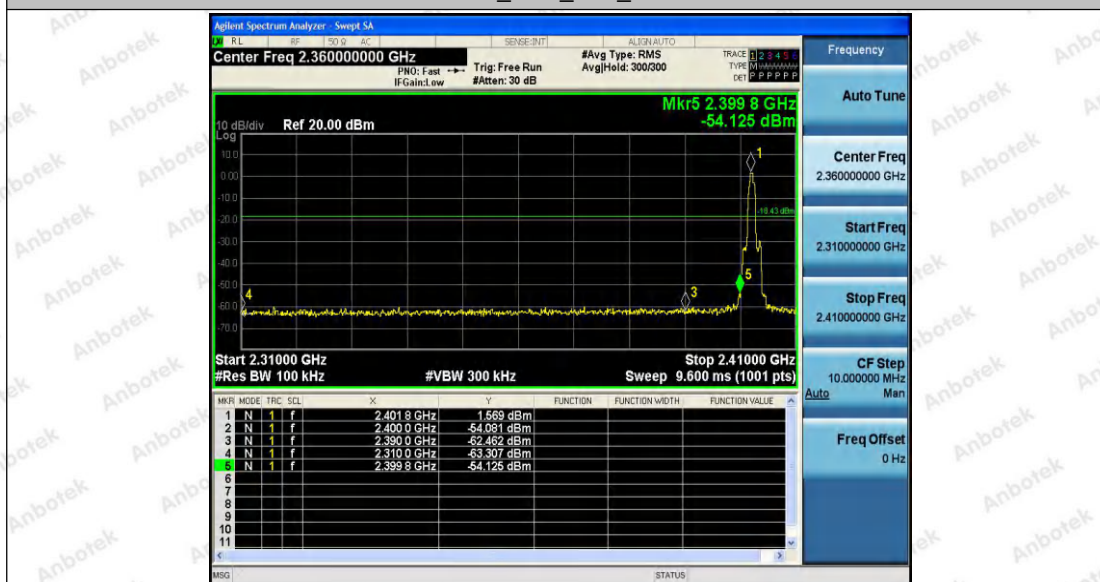
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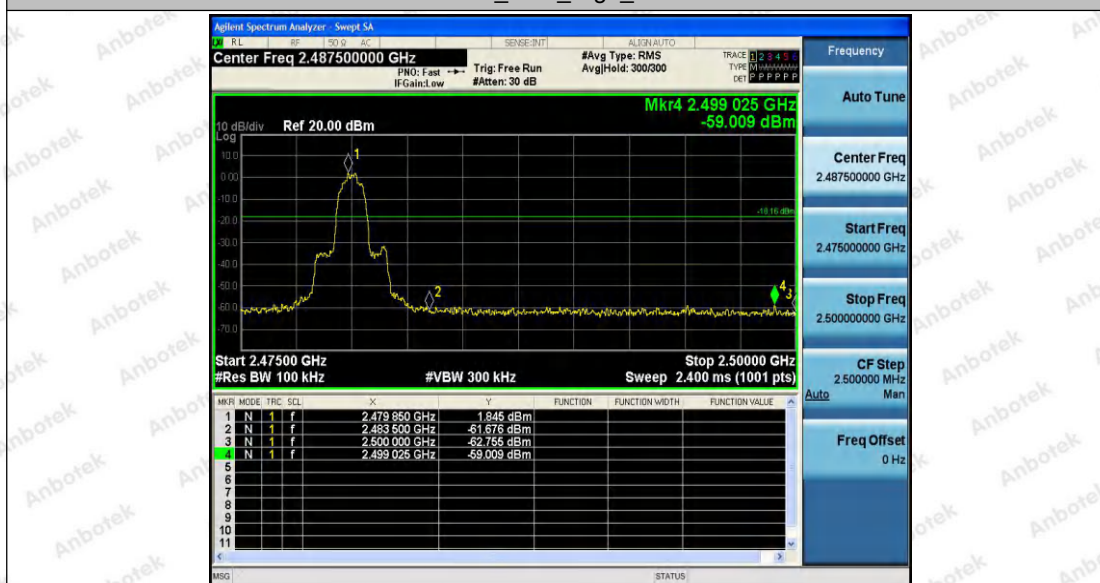
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



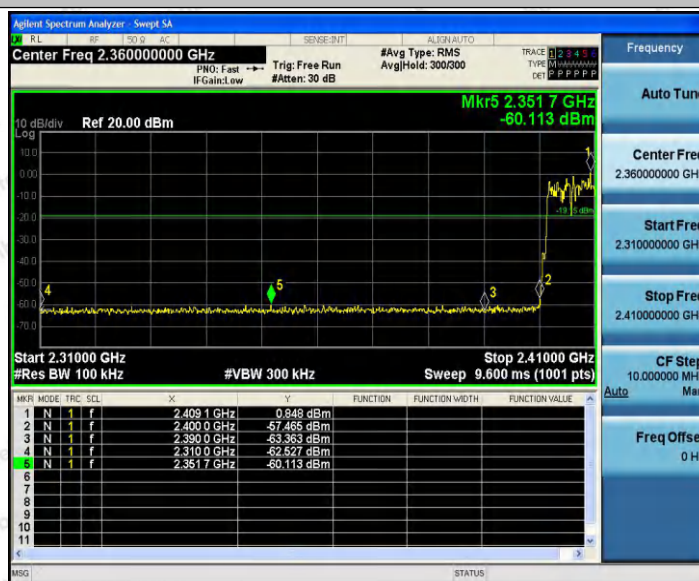
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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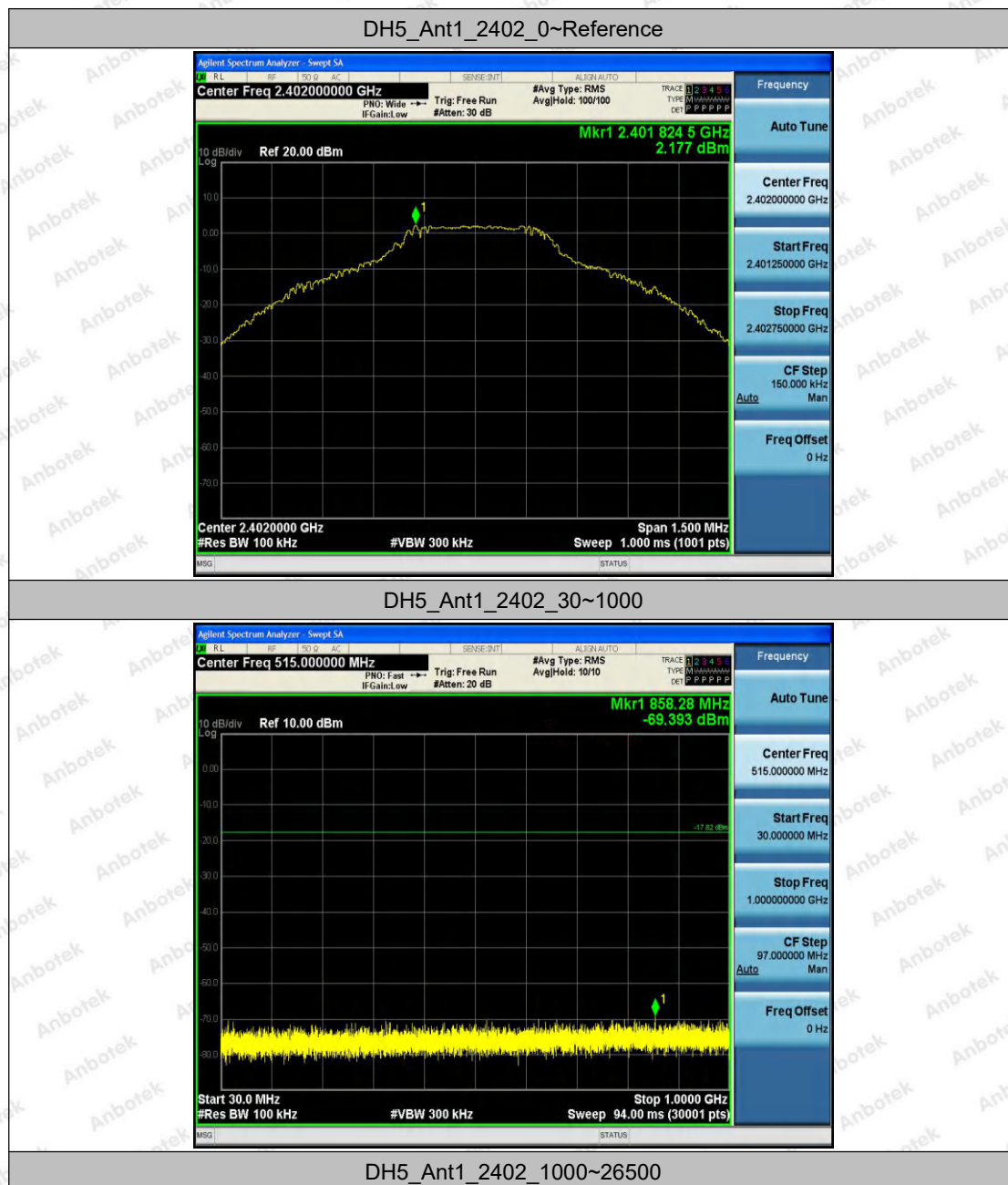
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-69.39	≤-17.82	PASS
			1000~26500	2.18	-56.15	≤-17.82	PASS
		2441	Reference	1.65	1.65	---	PASS
			30~1000	1.65	-69.57	≤-18.35	PASS
			1000~26500	1.65	-55.74	≤-18.35	PASS
		2480	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-67.66	≤-17.08	PASS
			1000~26500	2.92	-56.07	≤-17.08	PASS
2DH5	Ant1	2402	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-69.41	≤-18.87	PASS
			1000~26500	1.14	-55.69	≤-18.87	PASS
		2441	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-69.47	≤-19.7	PASS
			1000~26500	0.30	-56.37	≤-19.7	PASS
		2480	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-61.68	≤-18.55	PASS
			1000~26500	1.45	-55.93	≤-18.55	PASS
3DH5	Ant1	2402	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-69.43	≤-18.68	PASS
			1000~26500	1.32	-55.93	≤-18.68	PASS
		2441	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-69.71	≤-18.89	PASS
			1000~26500	1.11	-55.86	≤-18.89	PASS
		2480	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-69.77	≤-18.76	PASS
			1000~26500	1.24	-56.25	≤-18.76	PASS

Test Graphs

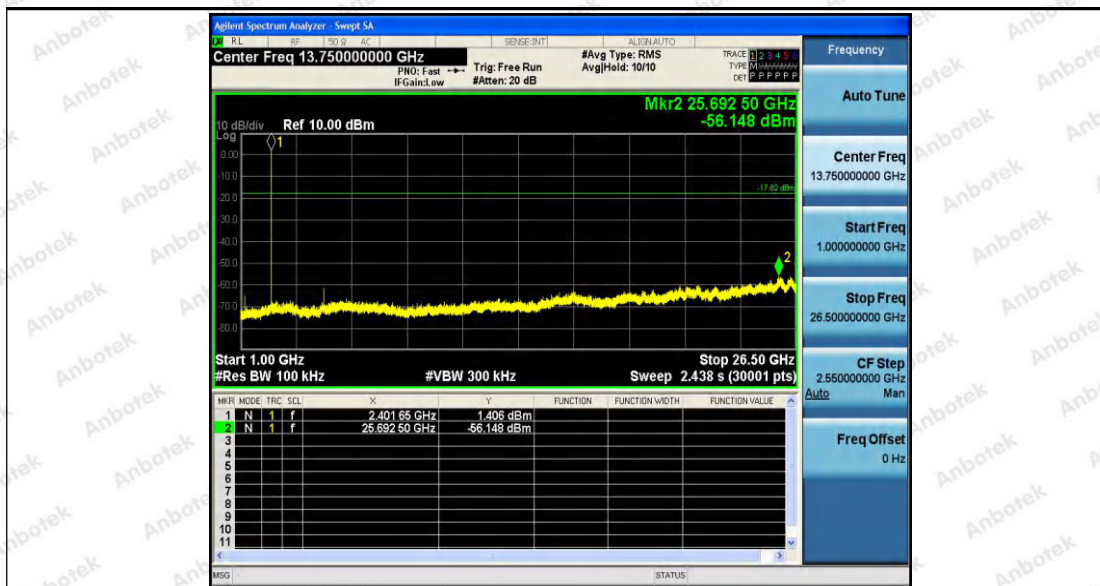


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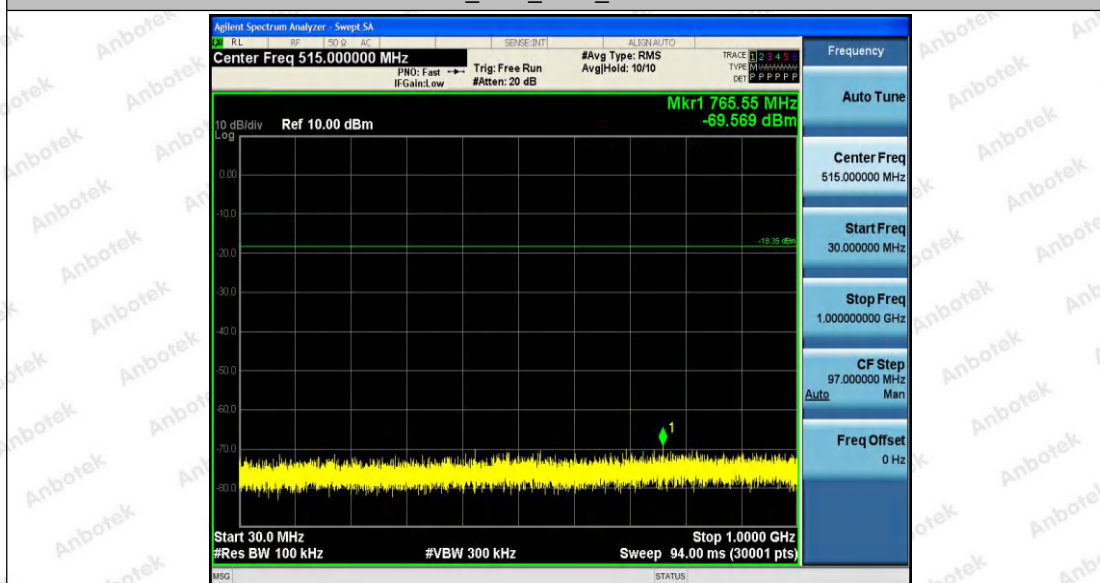
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



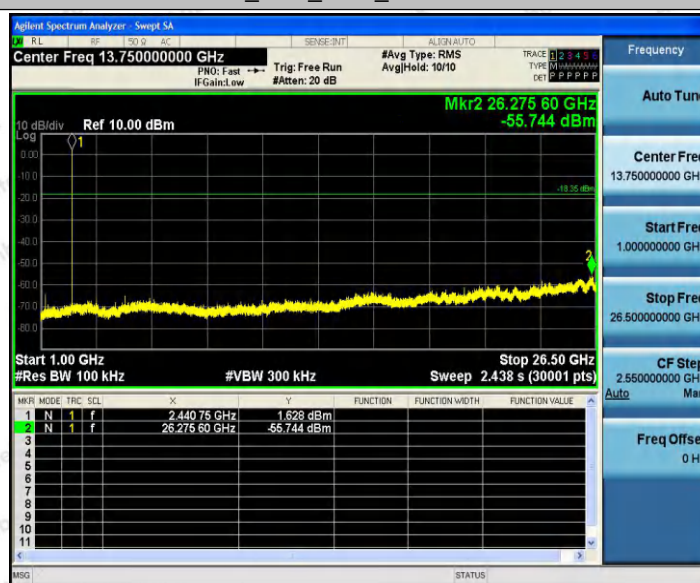
Shenzhen Anbotech Compliance Laboratory Limited

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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



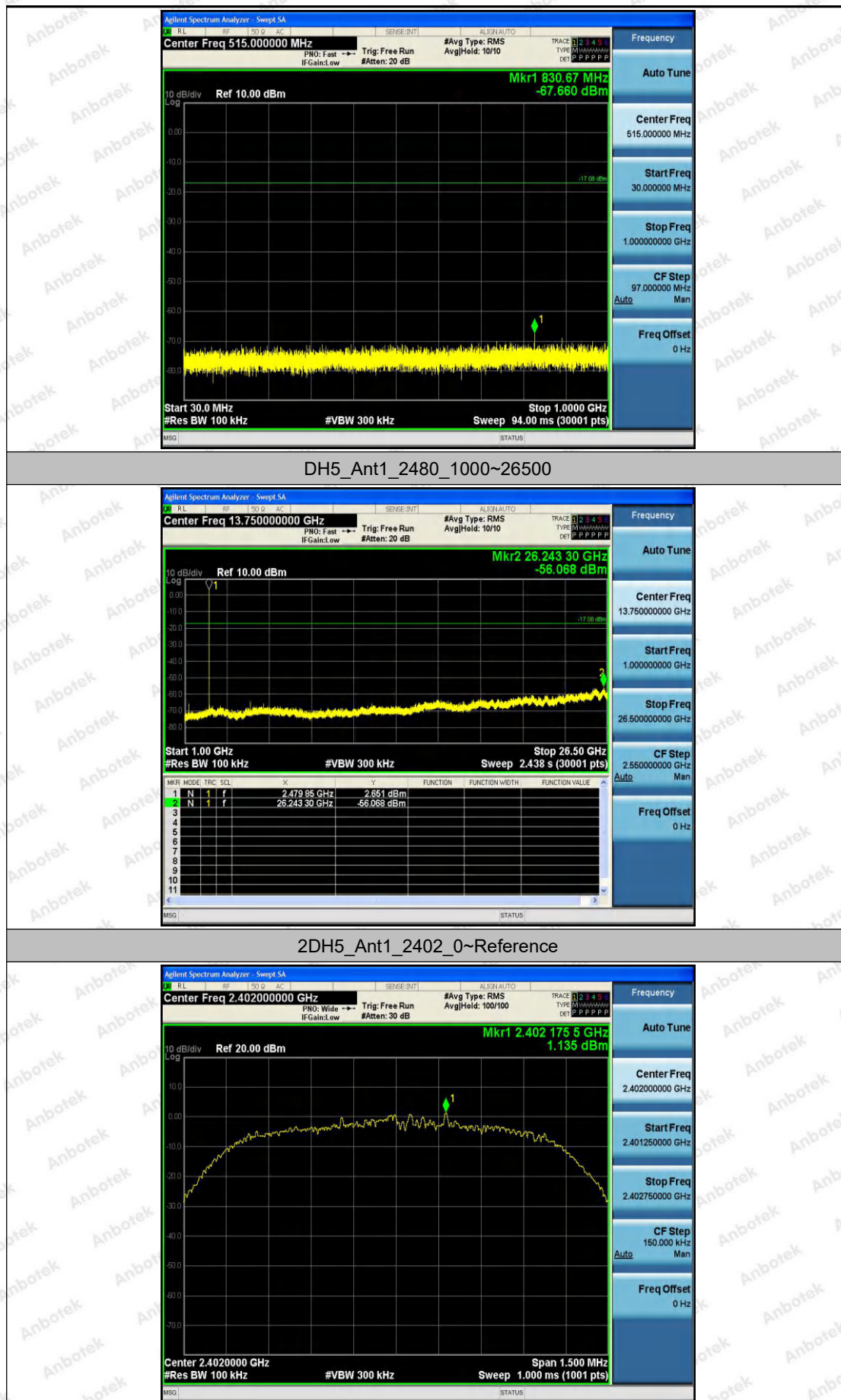
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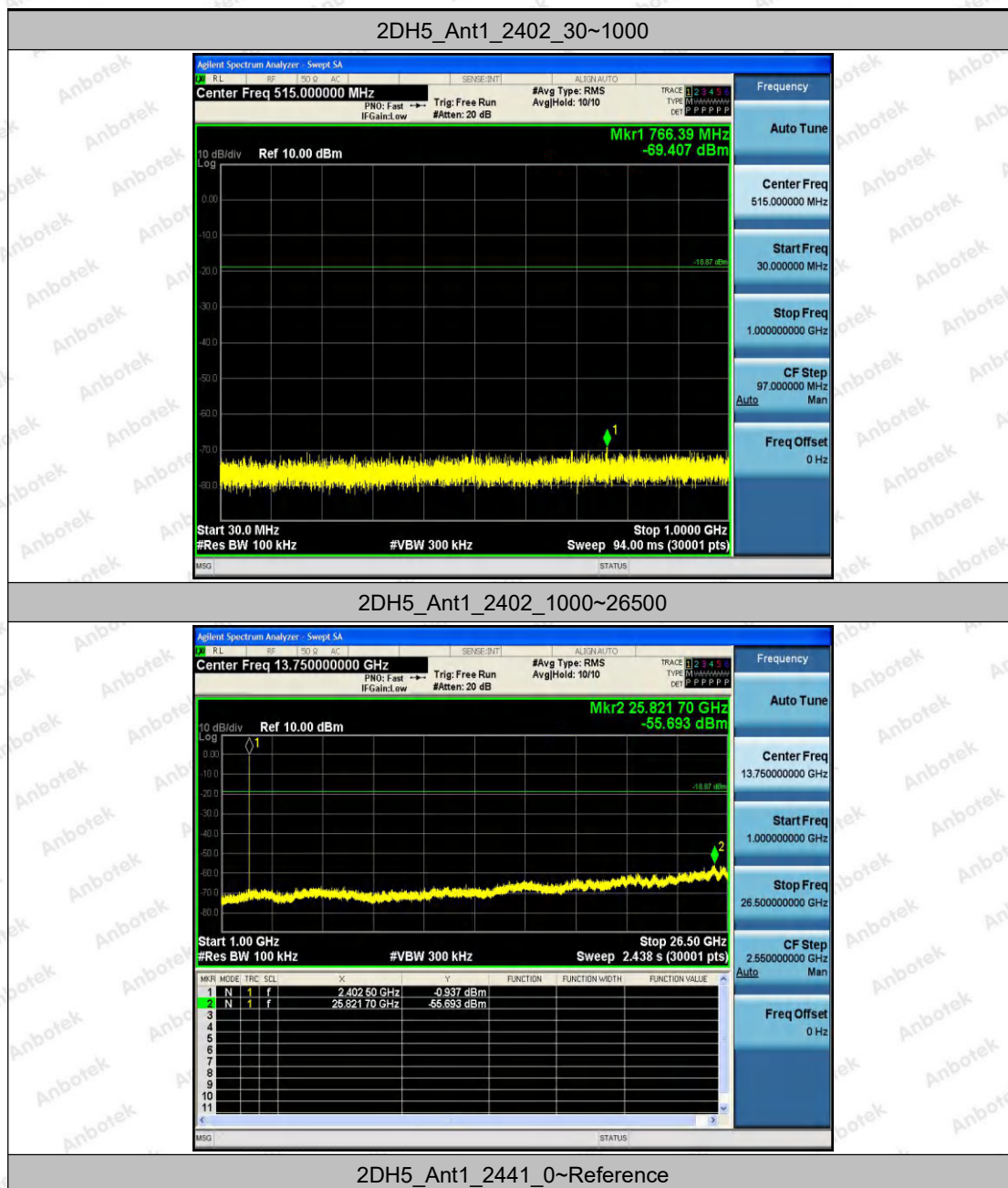


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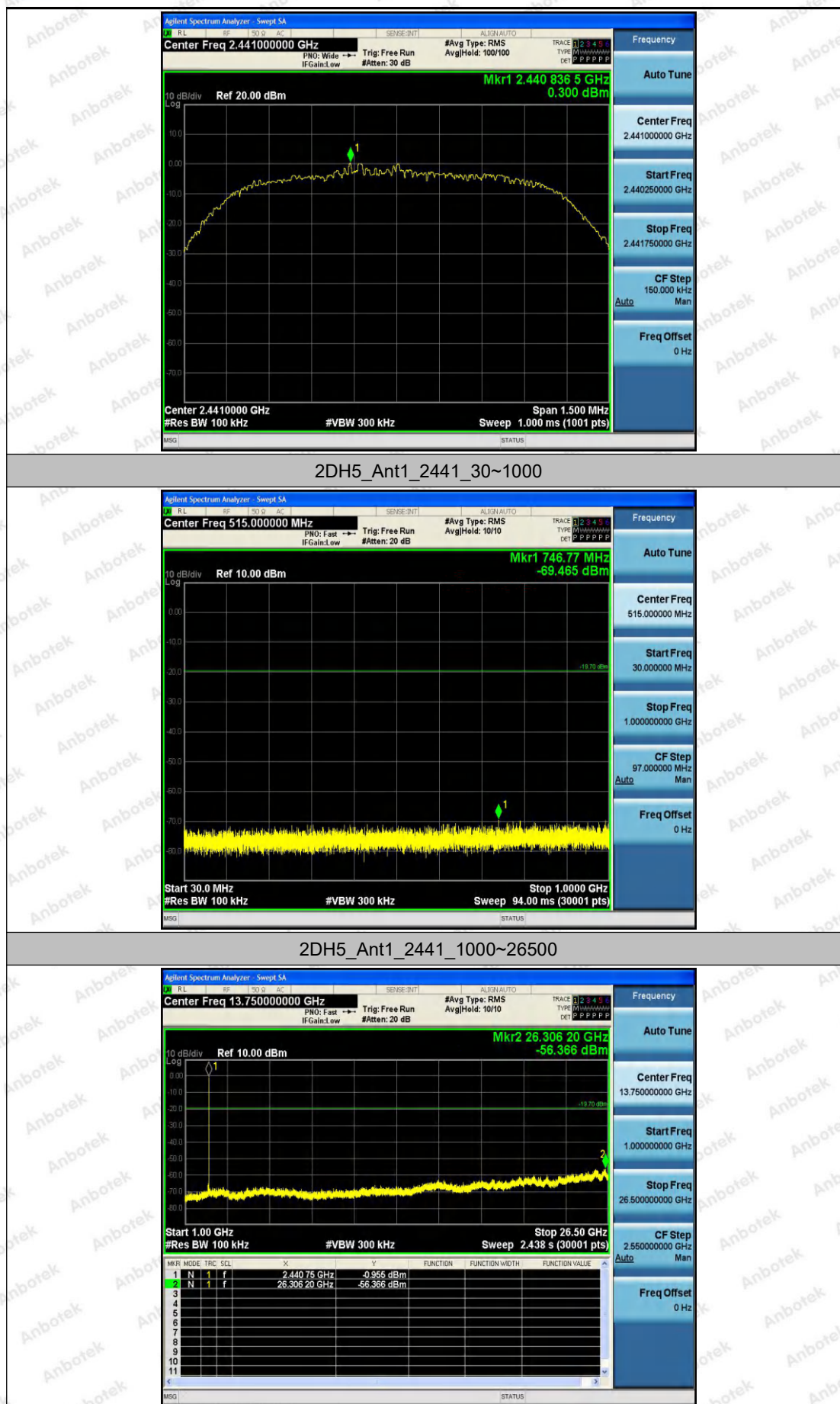


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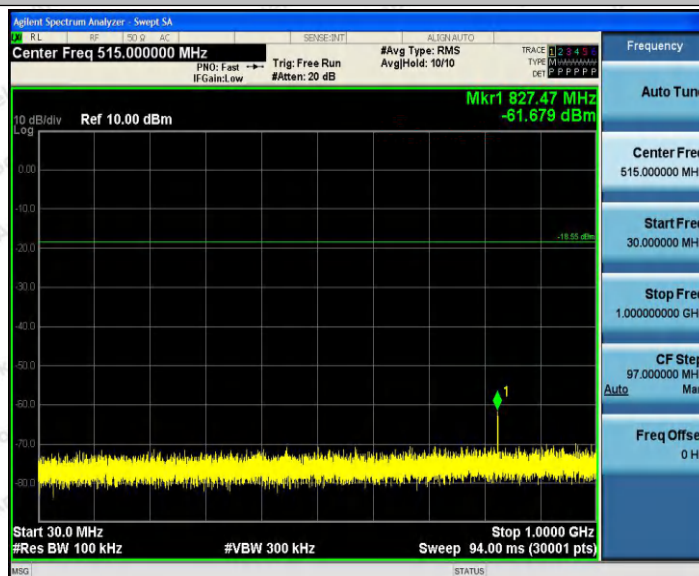
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



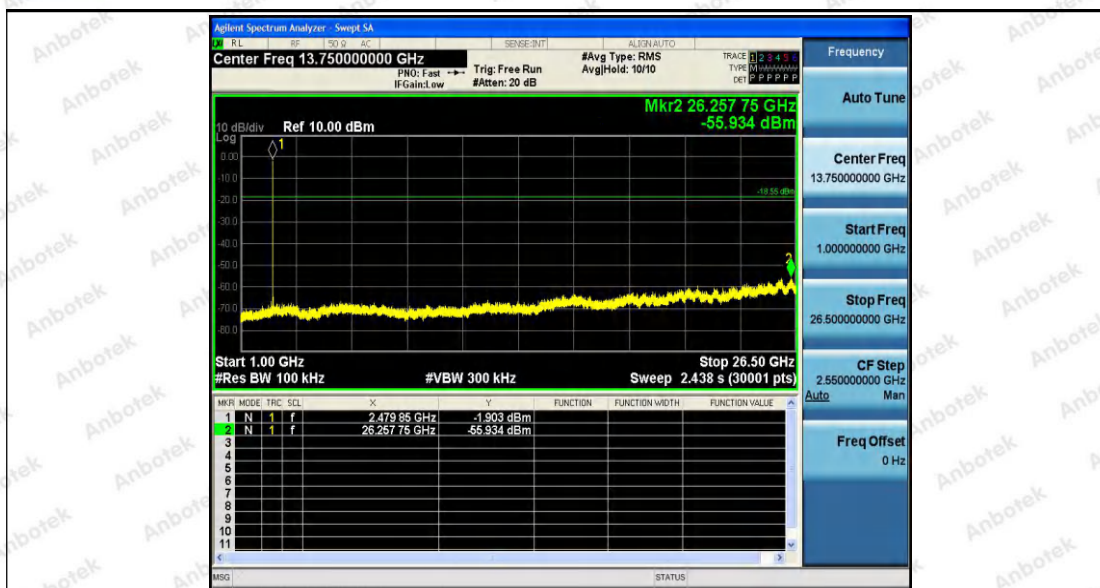
2DH5_Ant1_2480_1000~26500

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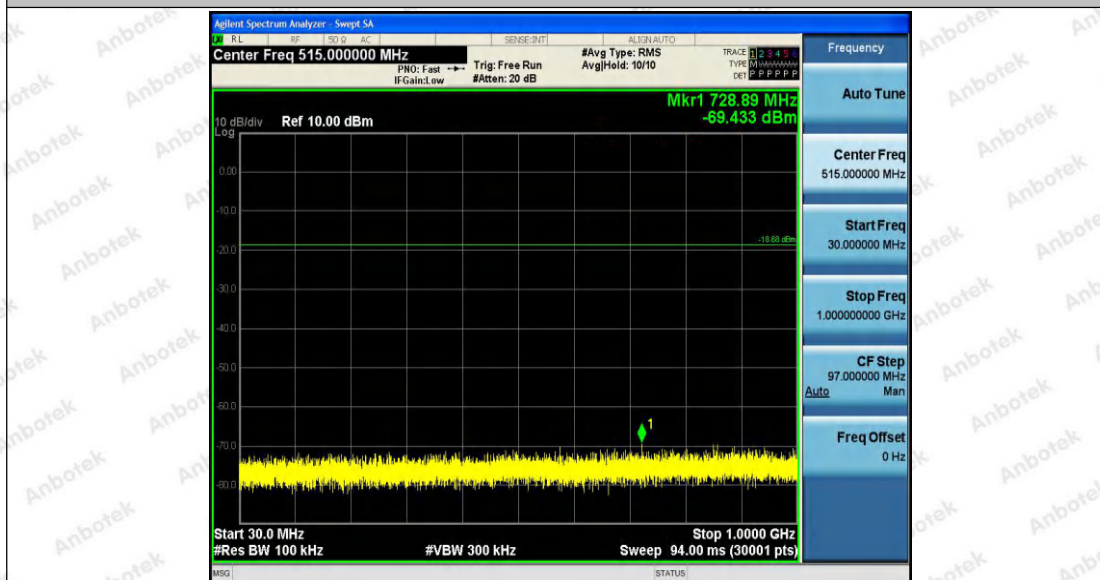
Hotline
400-003-0500
www.anbotech.com



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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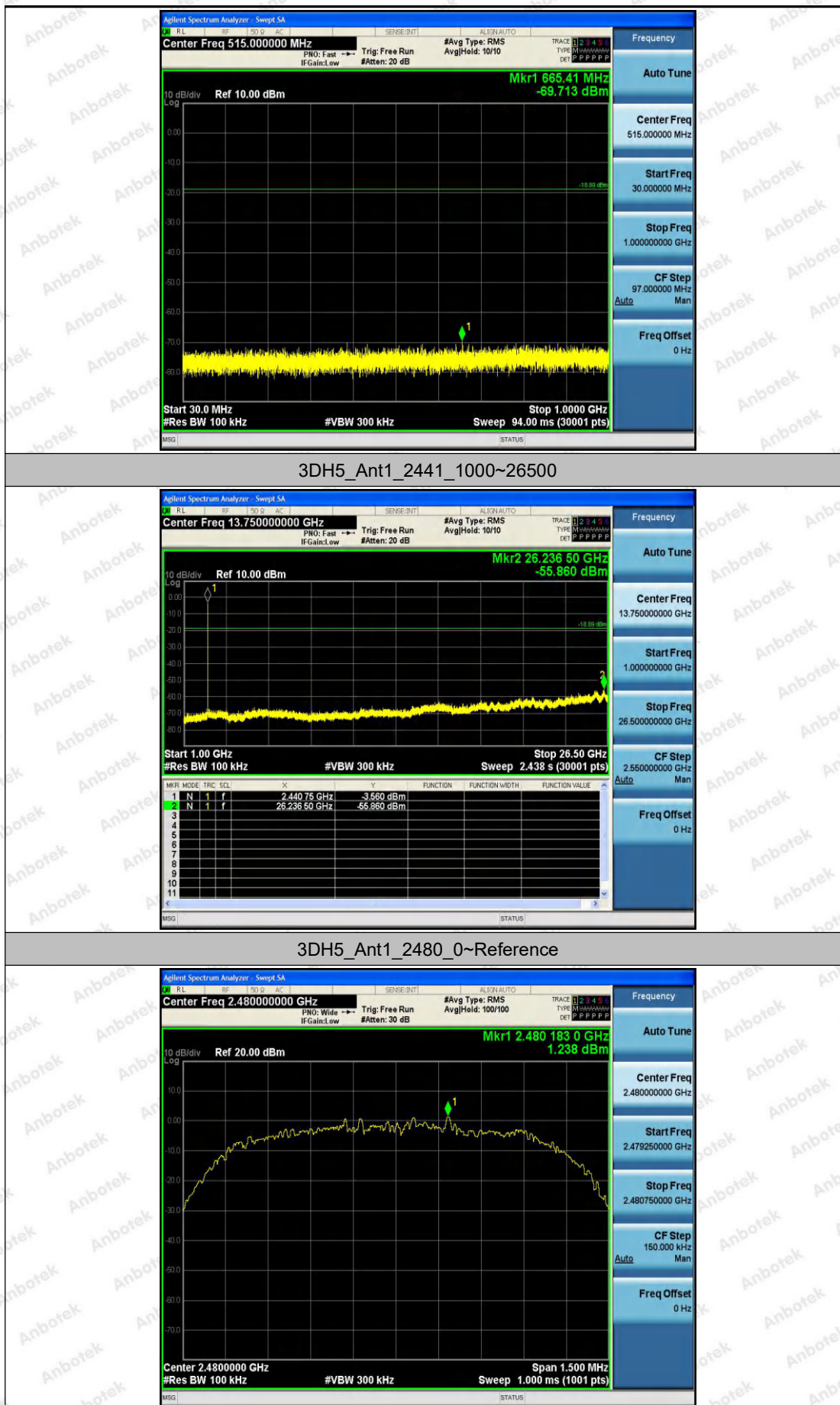
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3DH5_Ant1_2441_0~Reference



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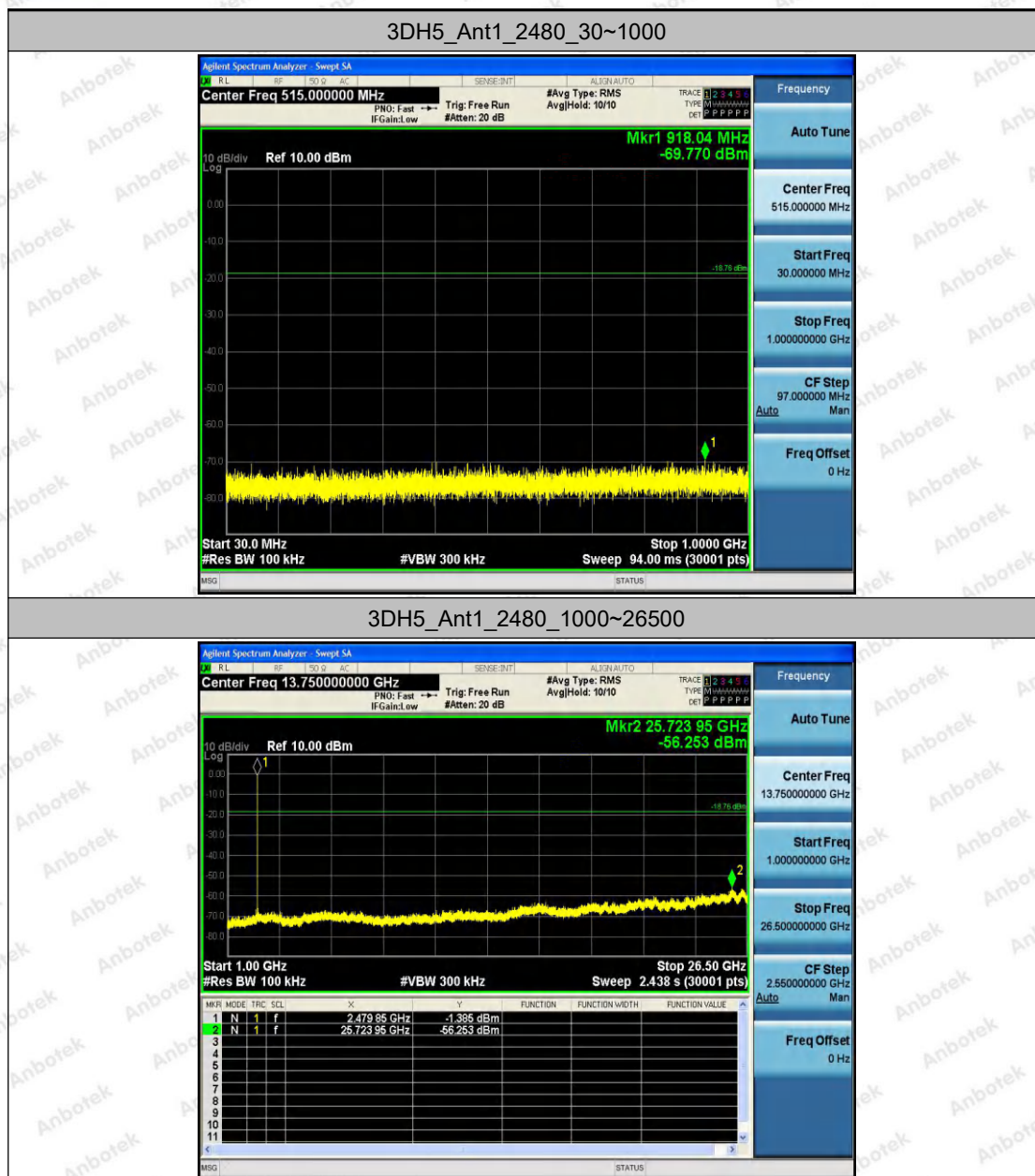


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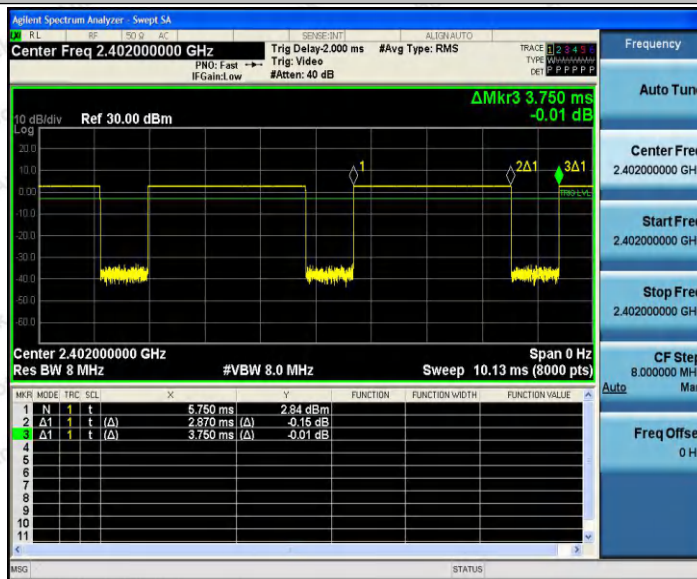
Appendix I: Duty Cycle

Test Result

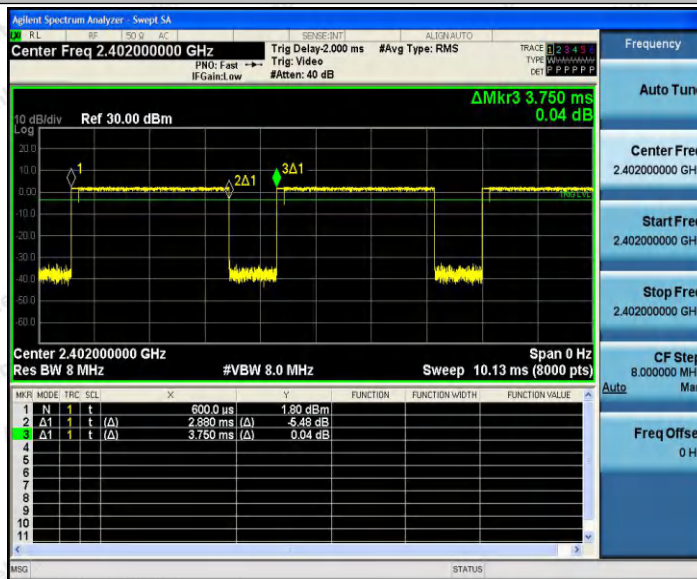
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

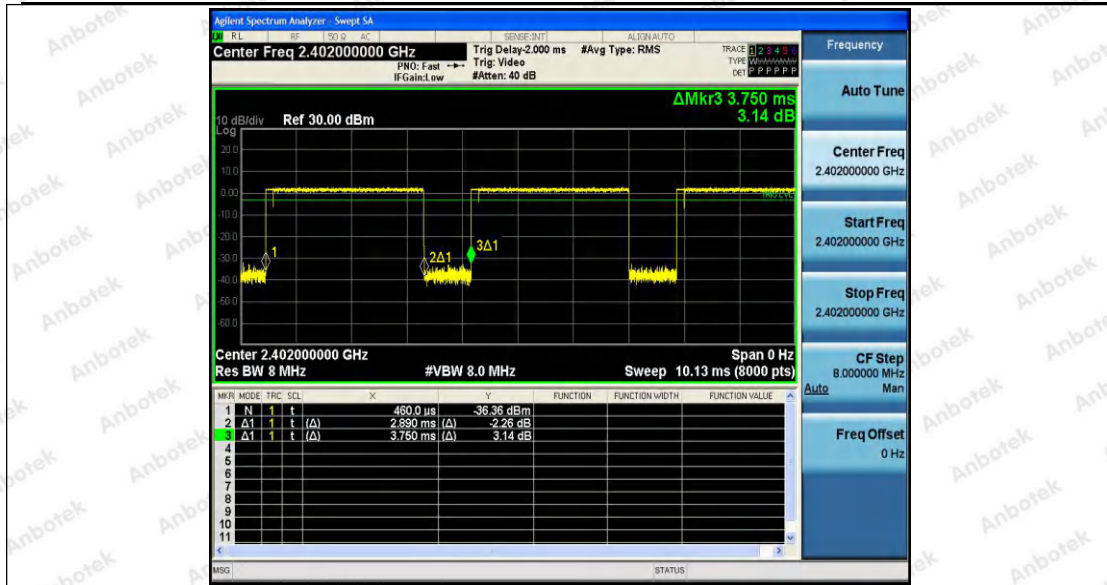
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---