

Appendix Test Data

Report No.:	18220WC20090801	Test Sample No.:	1-2-2
Start Test Date:	2022.4.25	Finish Test Date:	2022.5.6
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.1 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.526	2402.468	---	PASS
		2441	0.936	2440.529	2441.465	---	PASS
		2480	0.939	2479.526	2480.465	---	PASS
2DH5	Ant1	2402	1.521	2401.226	2402.747	---	PASS
		2441	1.515	2440.226	2441.741	---	PASS
		2480	1.524	2479.223	2480.747	---	PASS
3DH5	Ant1	2402	1.512	2401.244	2402.756	---	PASS
		2441	1.512	2440.241	2441.753	---	PASS
		2480	1.539	2479.214	2480.753	---	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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3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86556	2401.554	2402.419	---	PASS
		2441	0.86765	2440.551	2441.419	---	PASS
		2480	0.88198	2479.545	2480.426	---	PASS
2DH5	Ant1	2402	1.3614	2401.302	2402.663	---	PASS
		2441	1.3532	2440.307	2441.661	---	PASS
		2480	1.3548	2479.306	2480.660	---	PASS
3DH5	Ant1	2402	1.3638	2401.304	2402.668	---	PASS
		2441	1.3599	2440.305	2441.665	---	PASS
		2480	1.3725	2479.298	2480.670	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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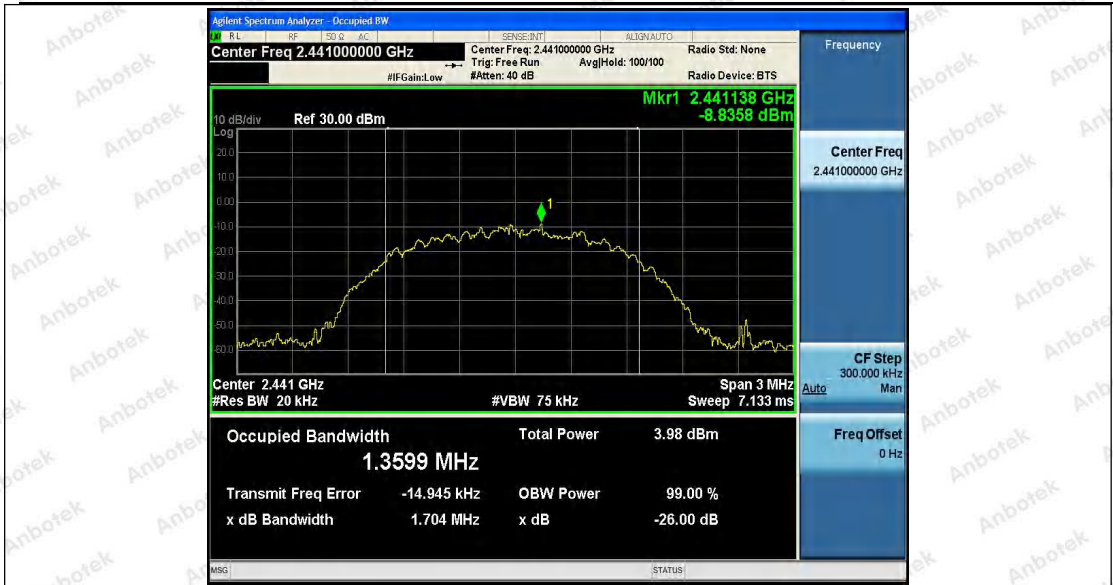


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3DH5_Ant1_2480



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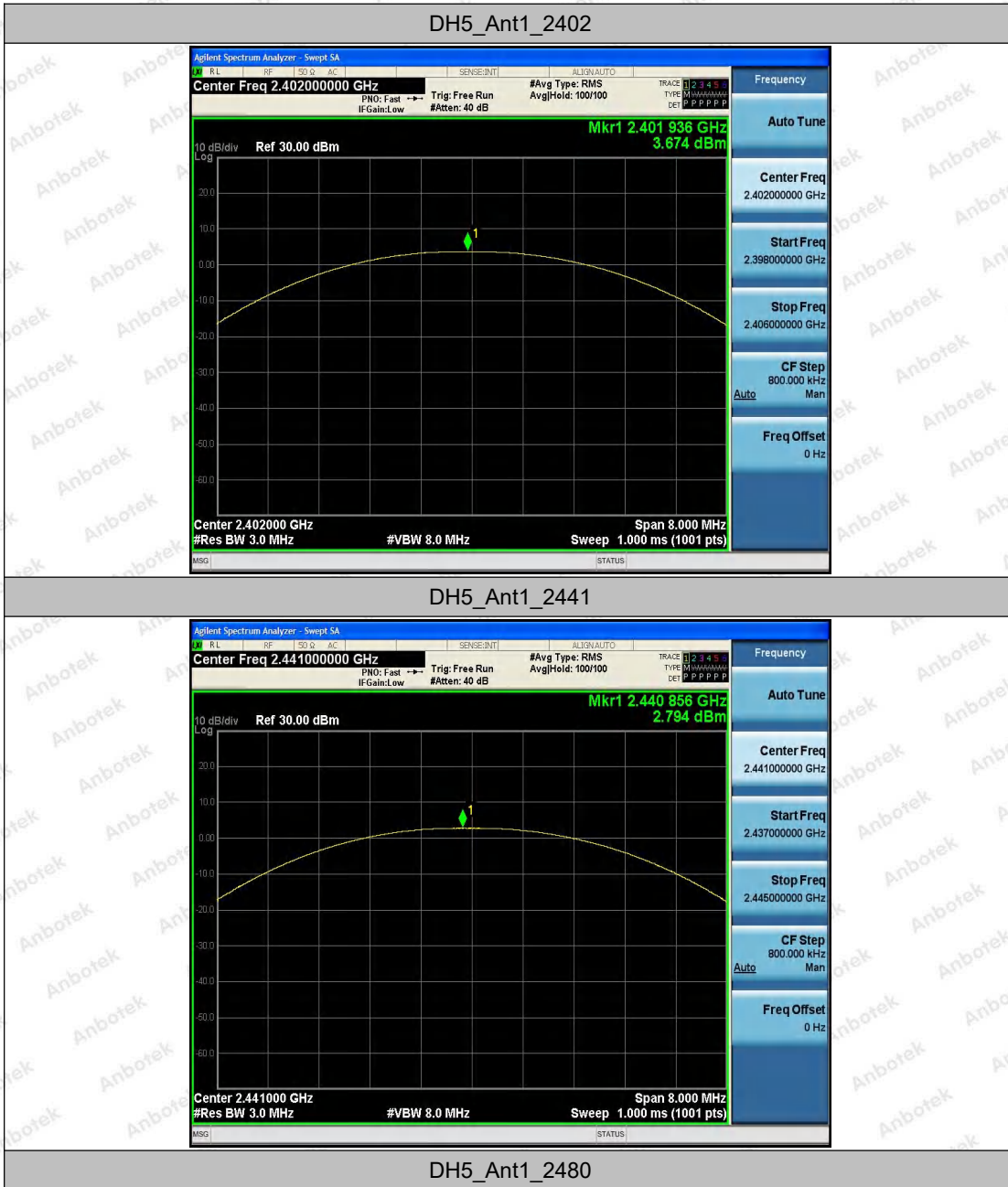
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.67	≤20.97	PASS
		2441	2.79	≤20.97	PASS
		2480	3.42	≤20.97	PASS
2DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	-0.84	≤20.97	PASS
		2480	-0.19	≤20.97	PASS
3DH5	Ant1	2402	0.47	≤20.97	PASS
		2441	-0.61	≤20.97	PASS
		2480	-0.11	≤20.97	PASS

Test Graphs



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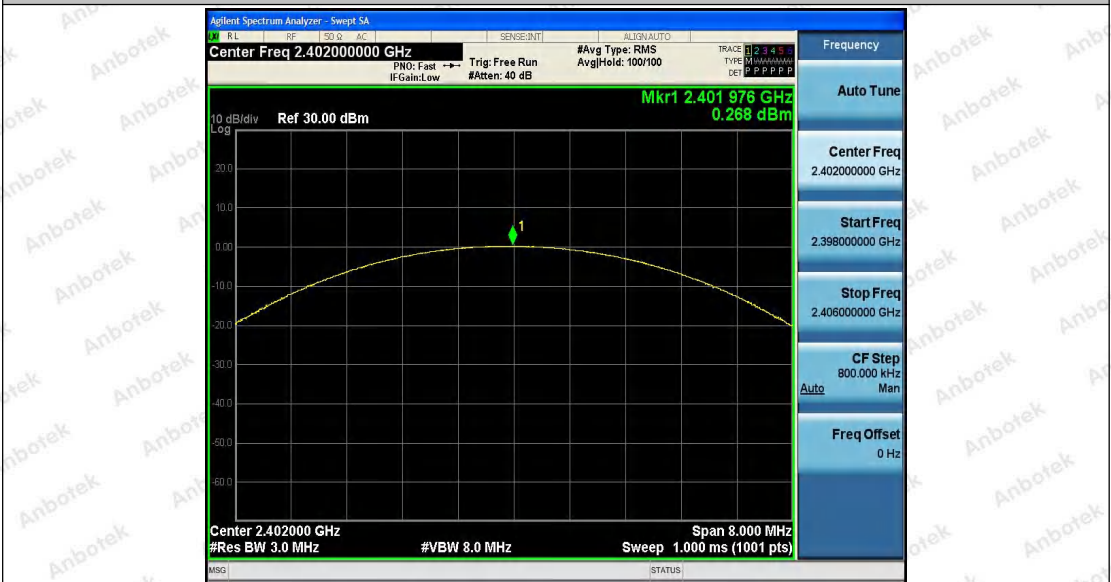
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2DH5_Ant1_2402



2DH5_Ant1_2441

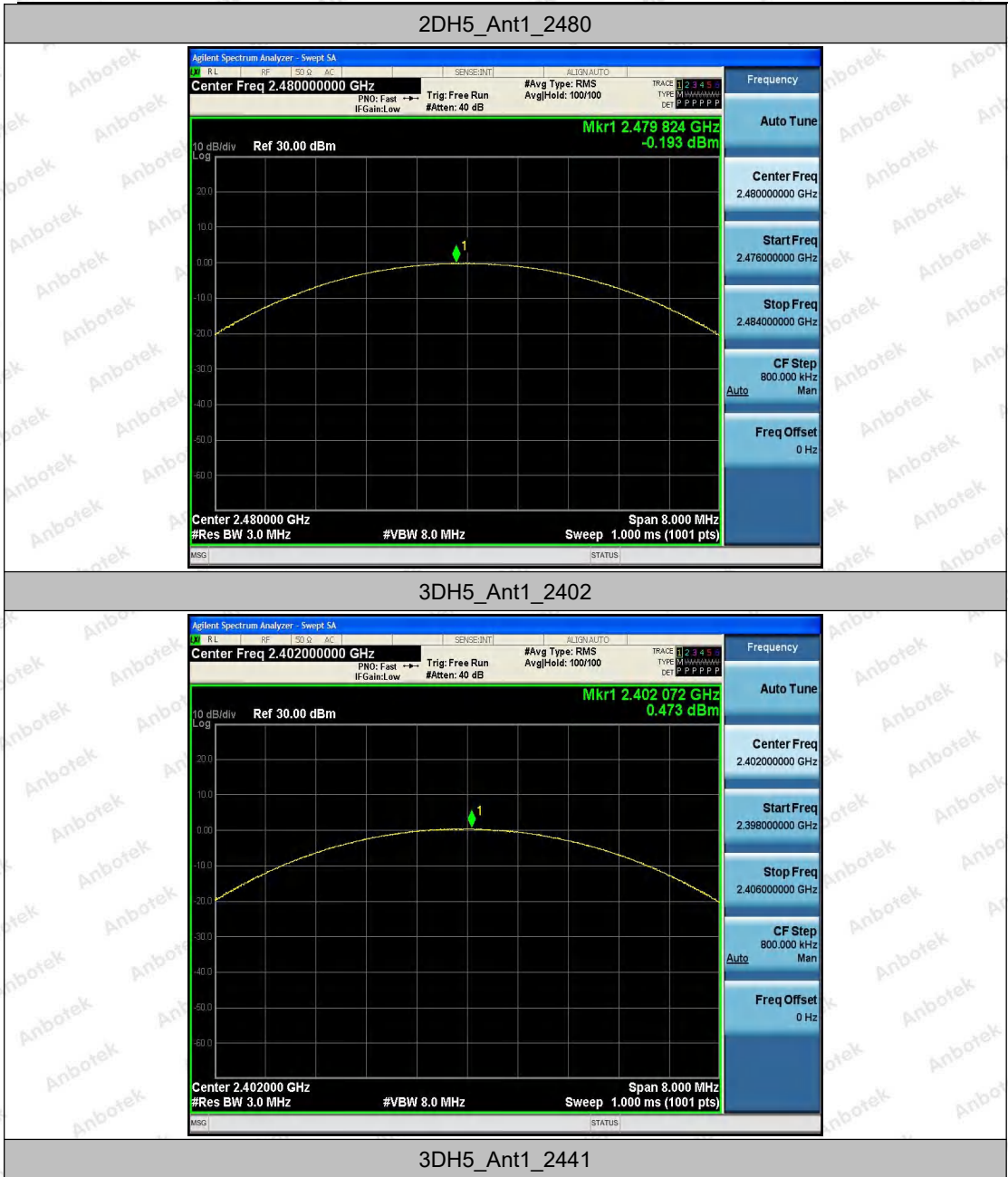


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3DH5_Ant1_2480



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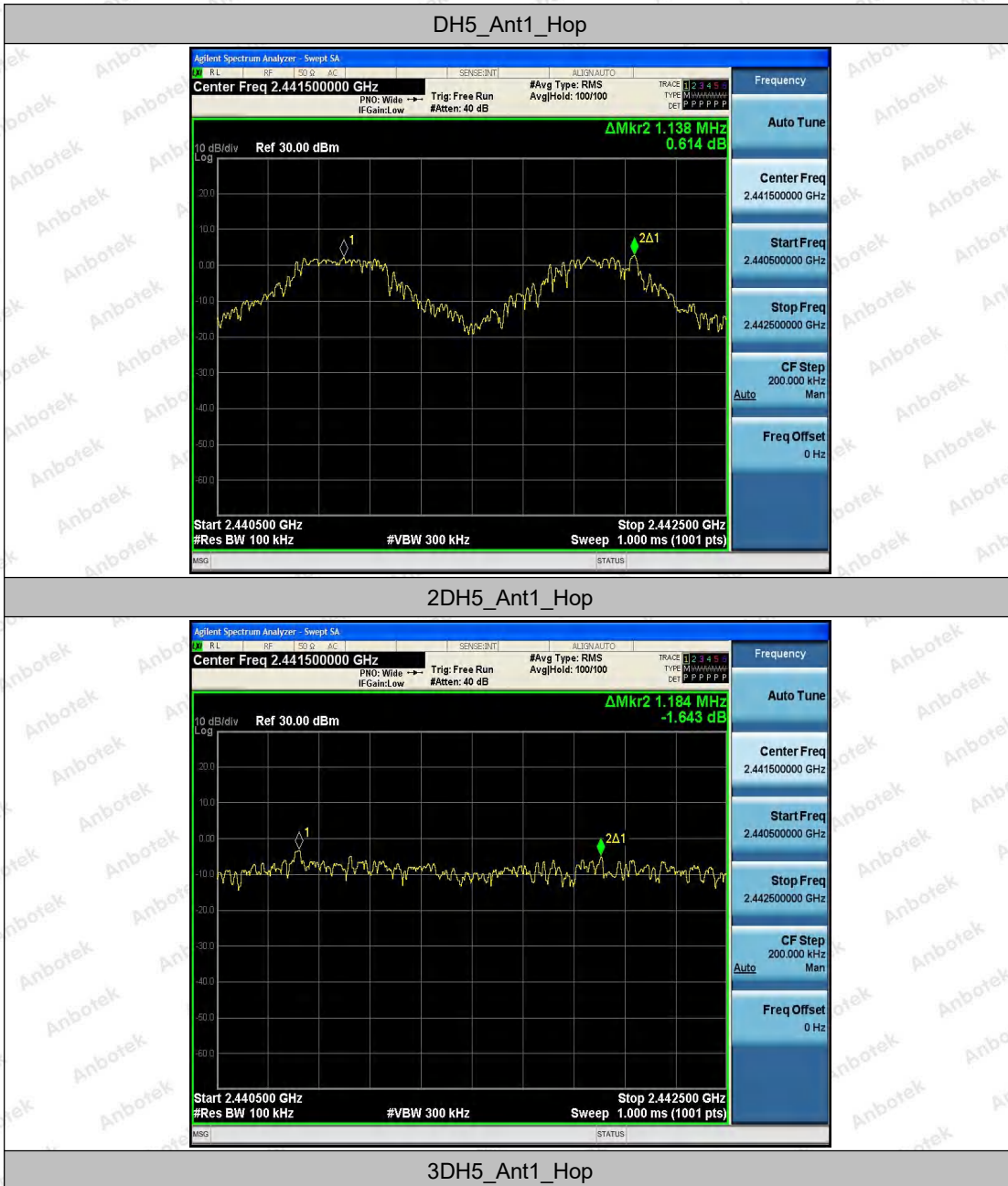
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.138	≥ 0.942	PASS
2DH5	Ant1	Hop	1.184	≥ 1.016	PASS
3DH5	Ant1	Hop	1.216	≥ 1.026	PASS

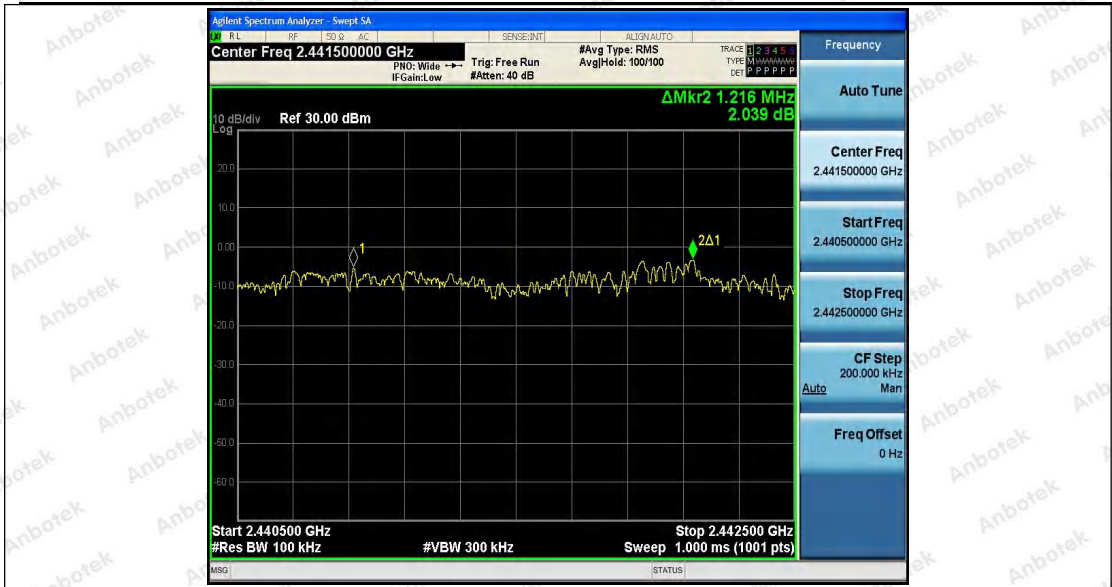
Test Graphs



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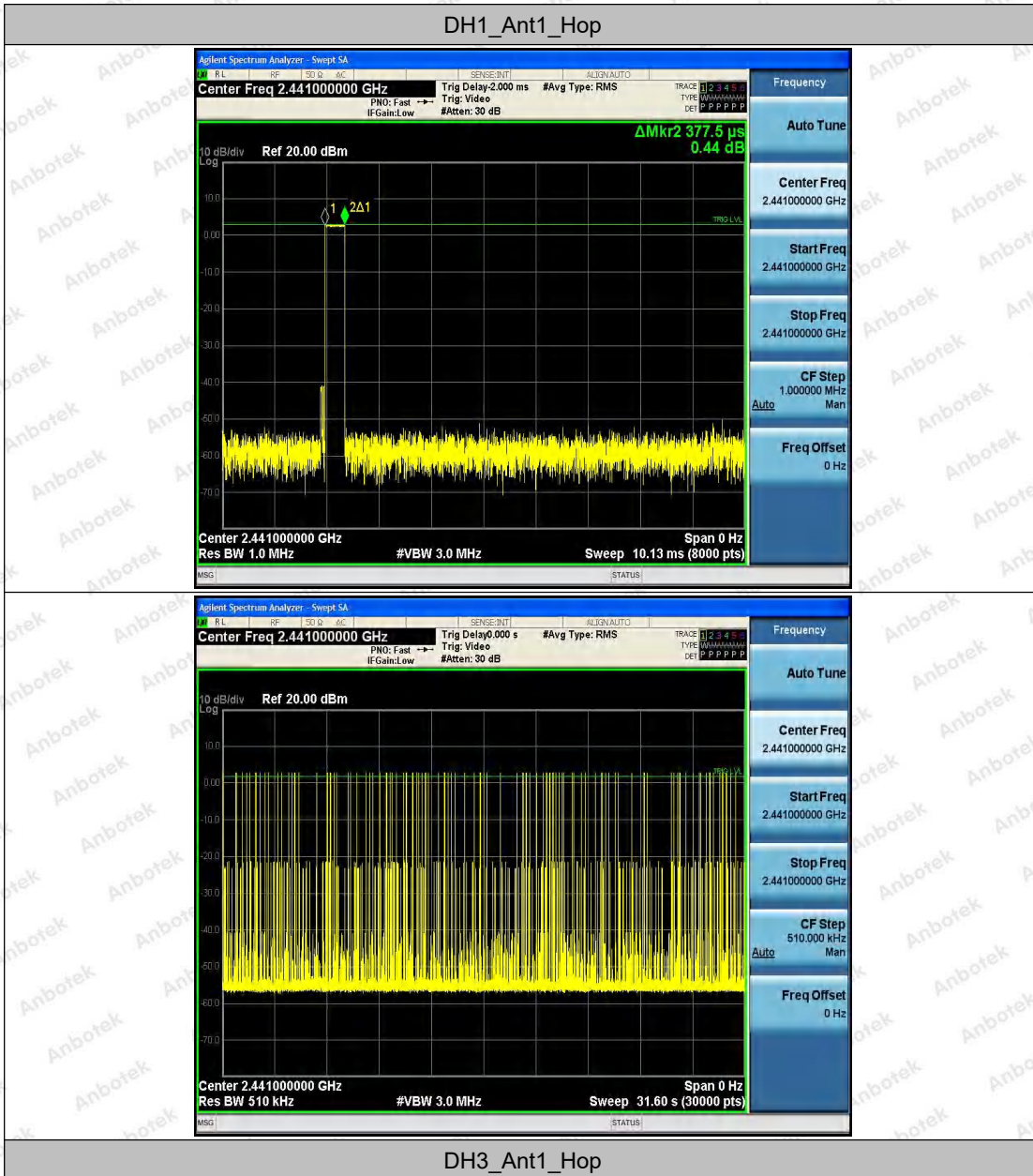
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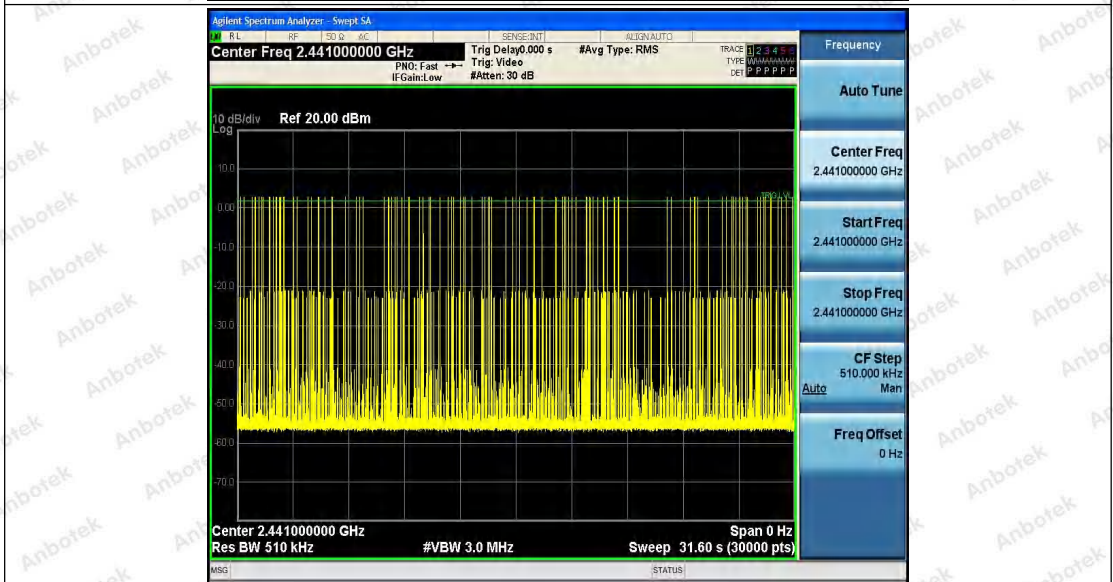
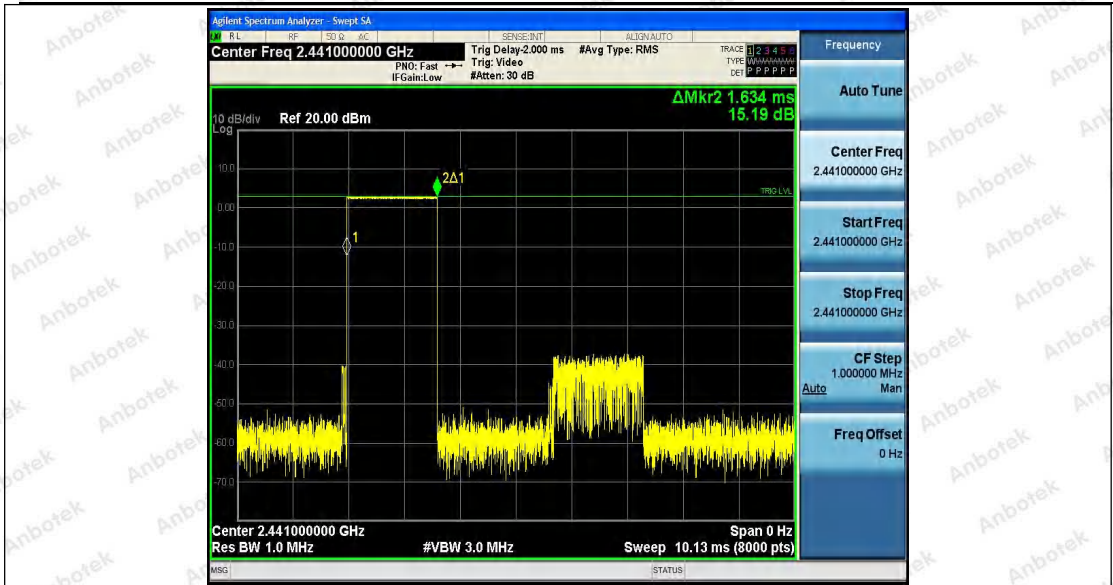
Appendix E: Time of occupancy

Test Result

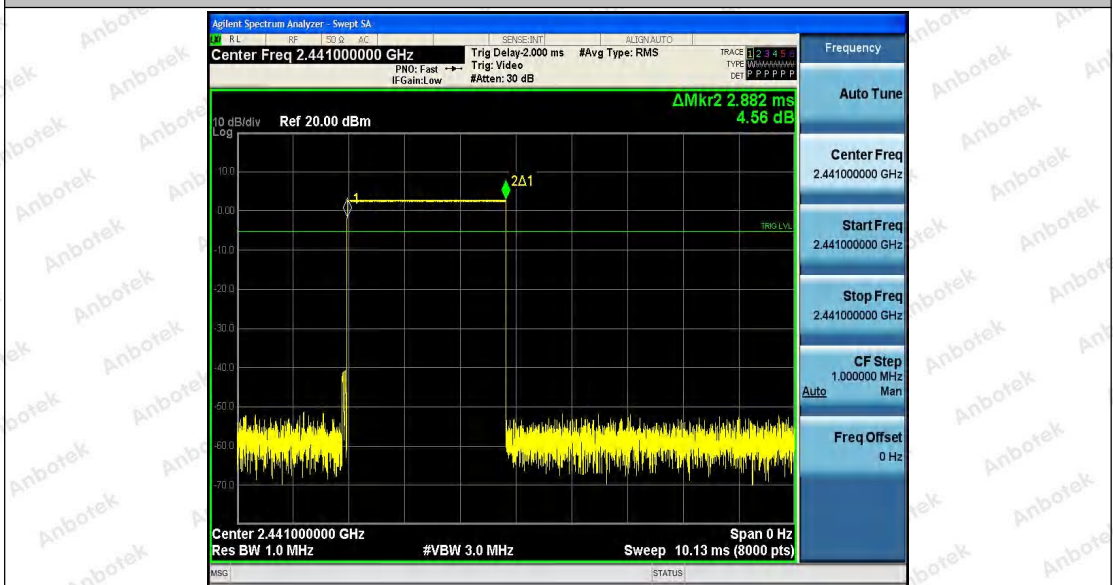
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	112	0.042	≤0.4	PASS
DH3	Ant1	Hop	1.63	105	0.172	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.39	316	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.64	171	0.28	≤0.4	PASS
2DH5	Ant1	Hop	2.89	111	0.321	≤0.4	PASS
3DH1	Ant1	Hop	0.39	316	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.64	168	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.89	111	0.321	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

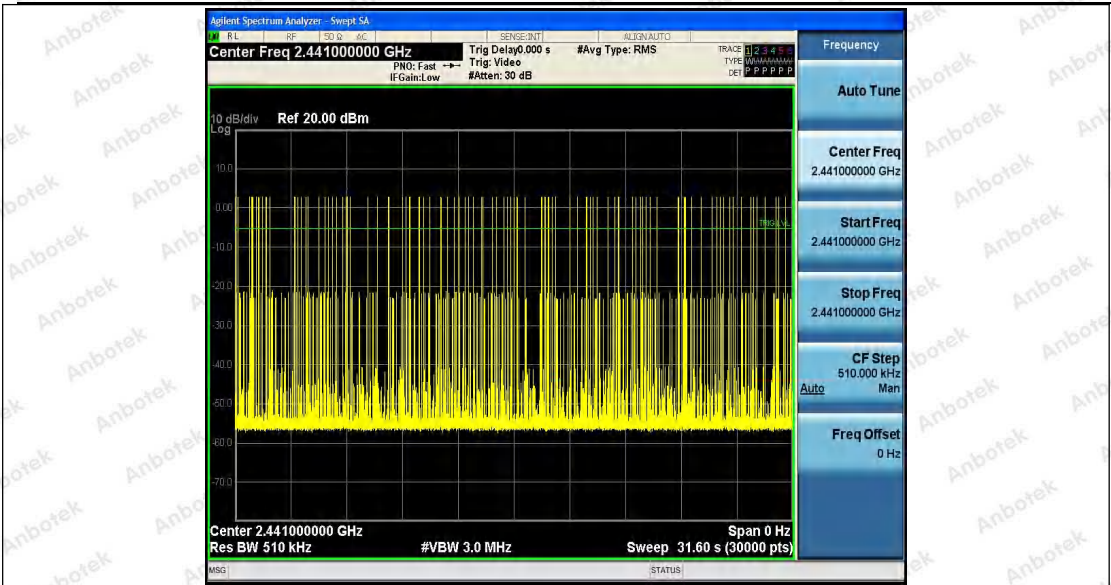


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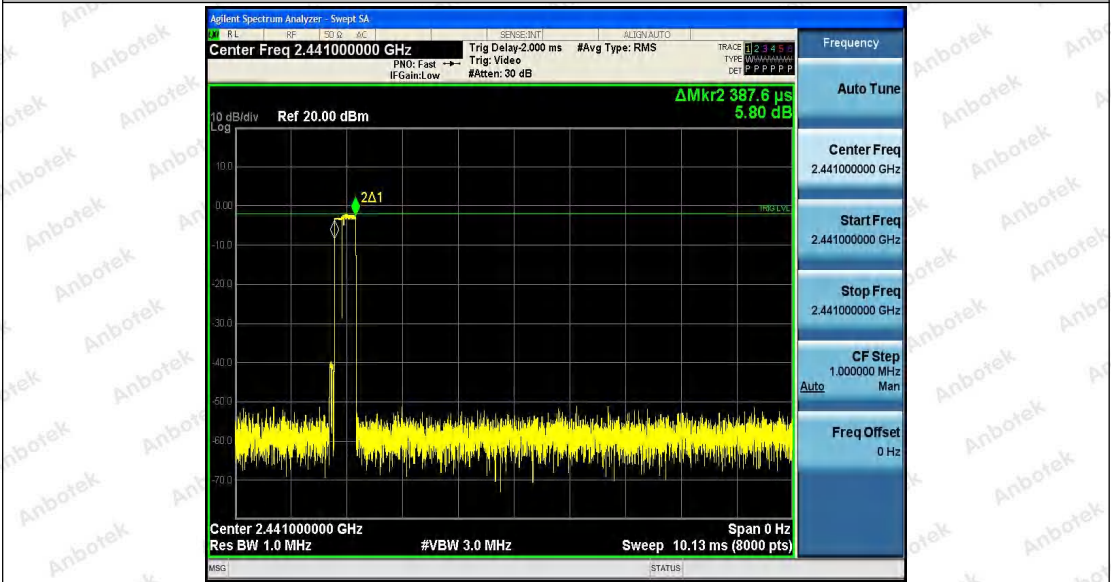
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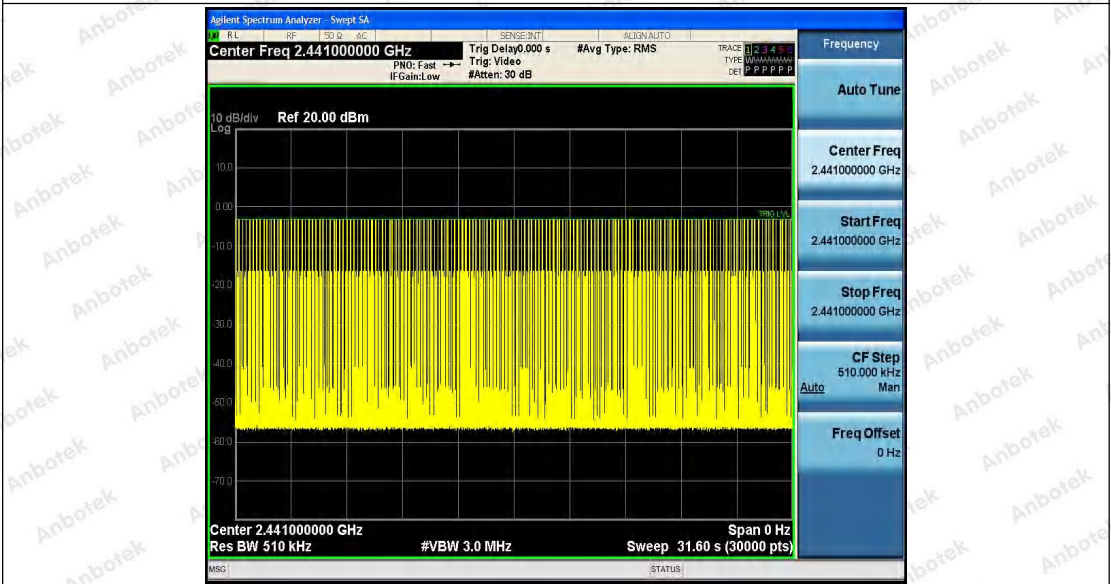
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

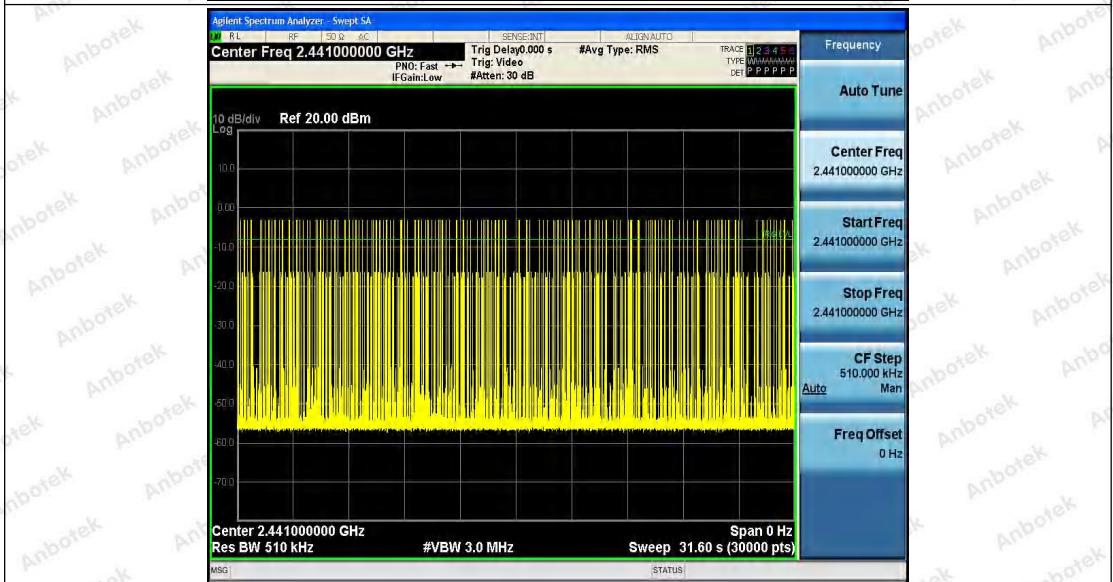
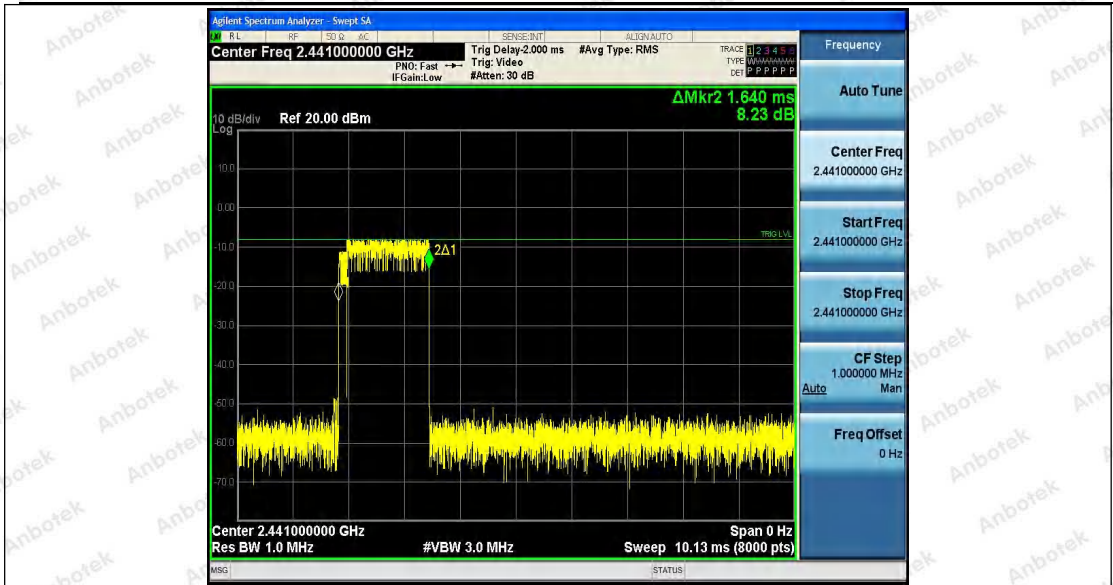


2DH3_Ant1_Hop

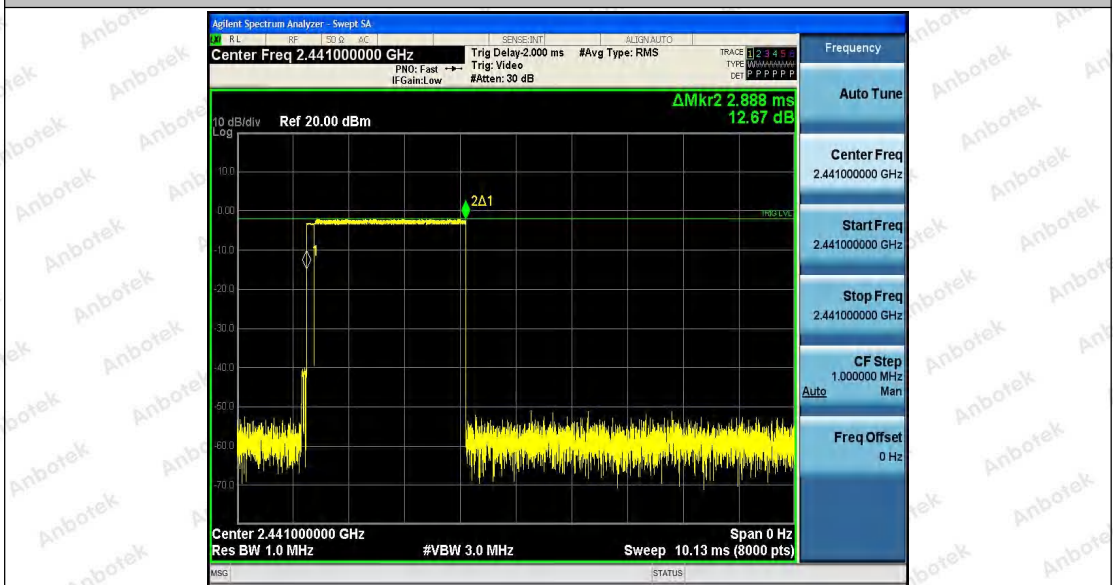
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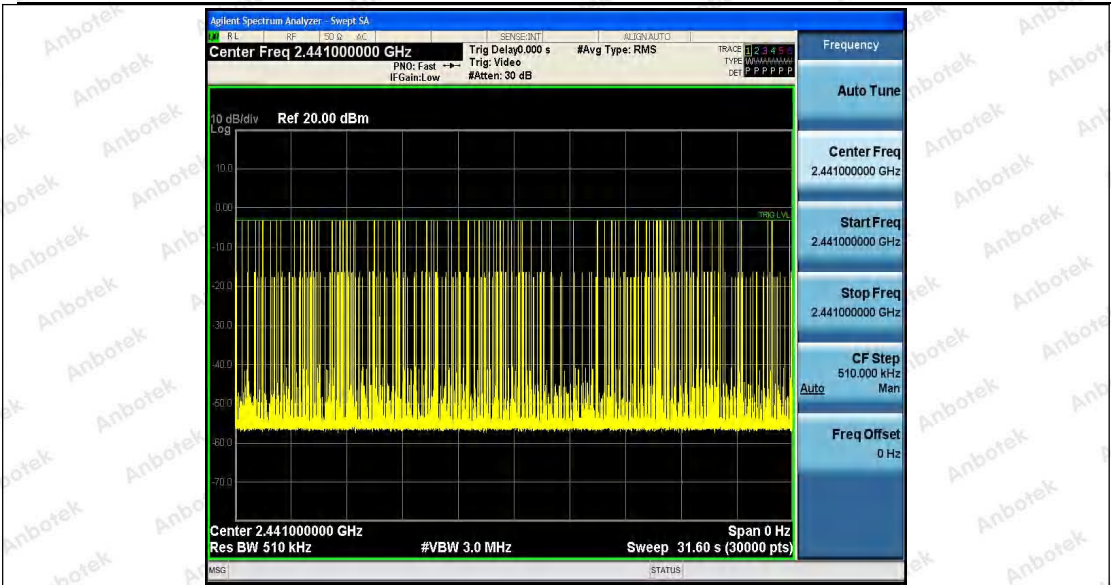
2DH5_Ant1_Hop



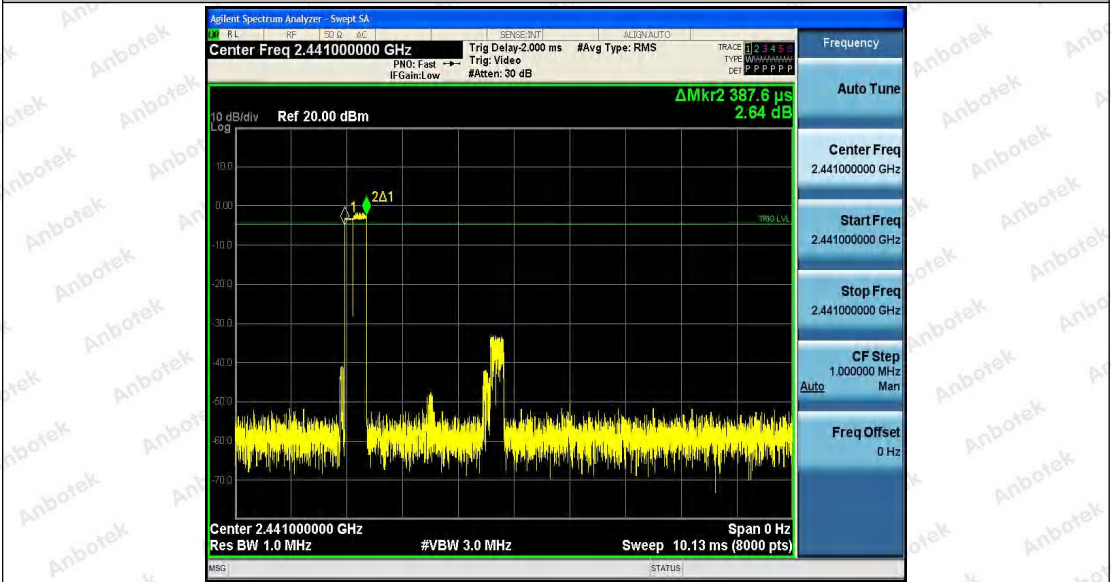
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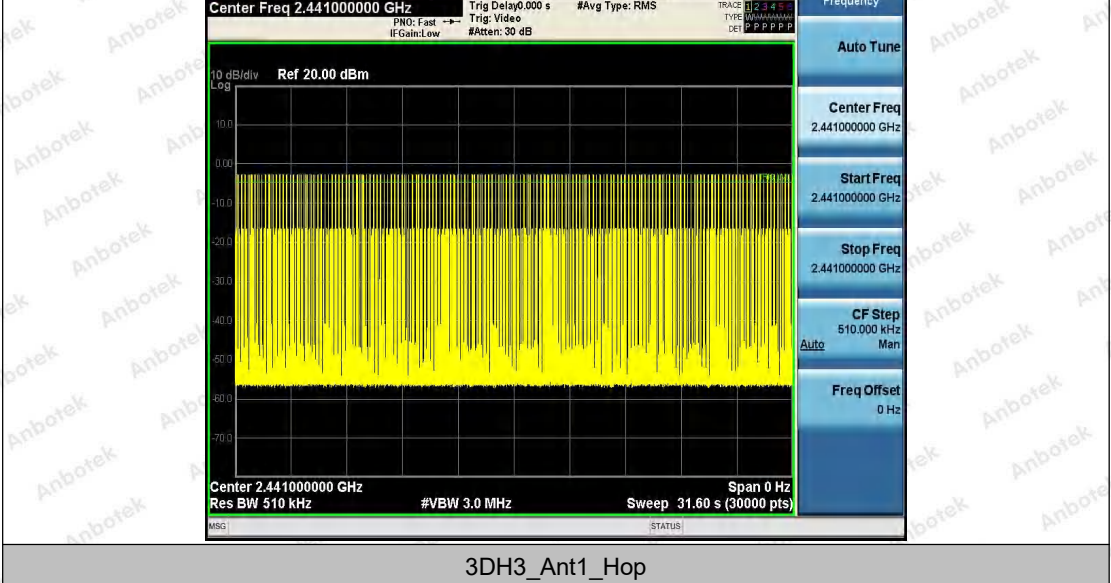
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



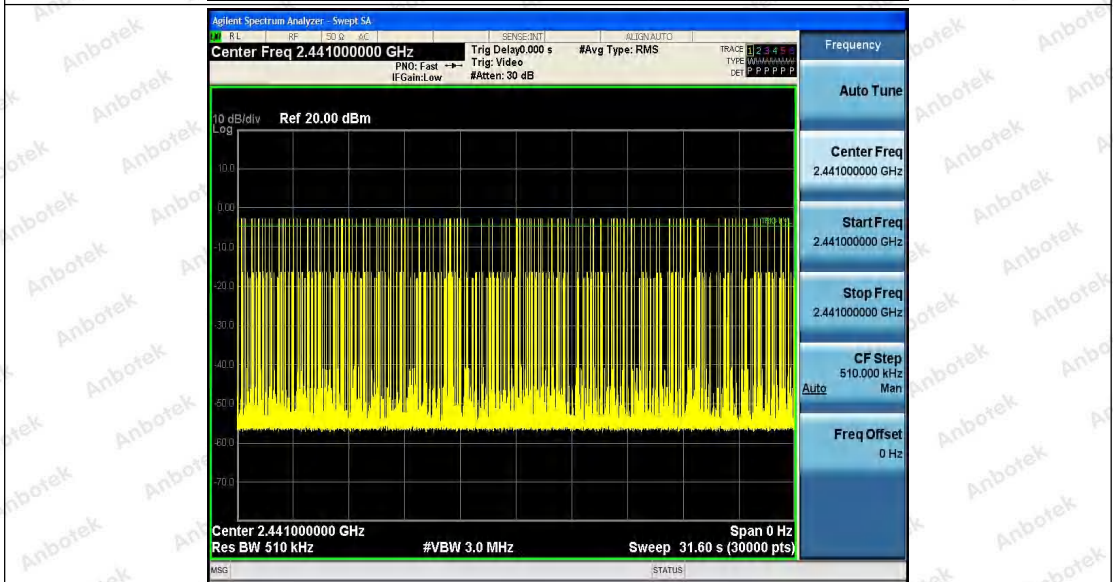
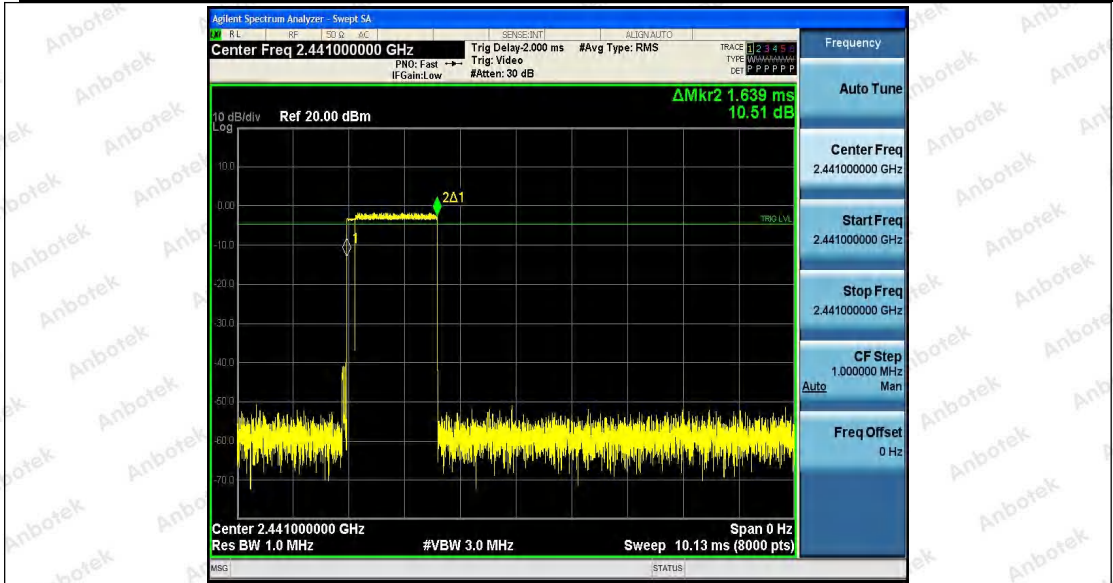
3DH3_Ant1_Hop

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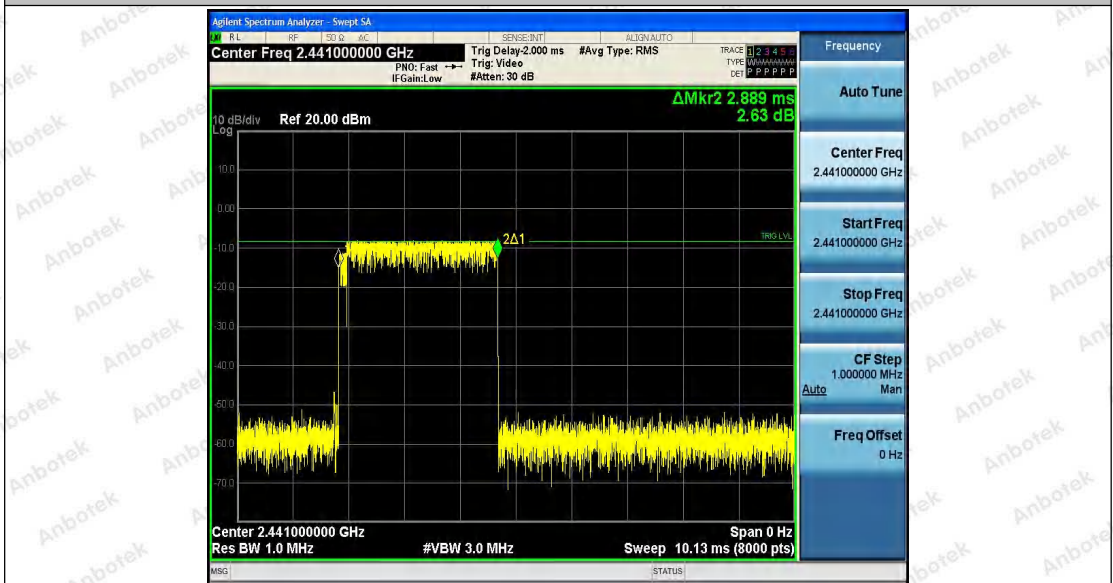
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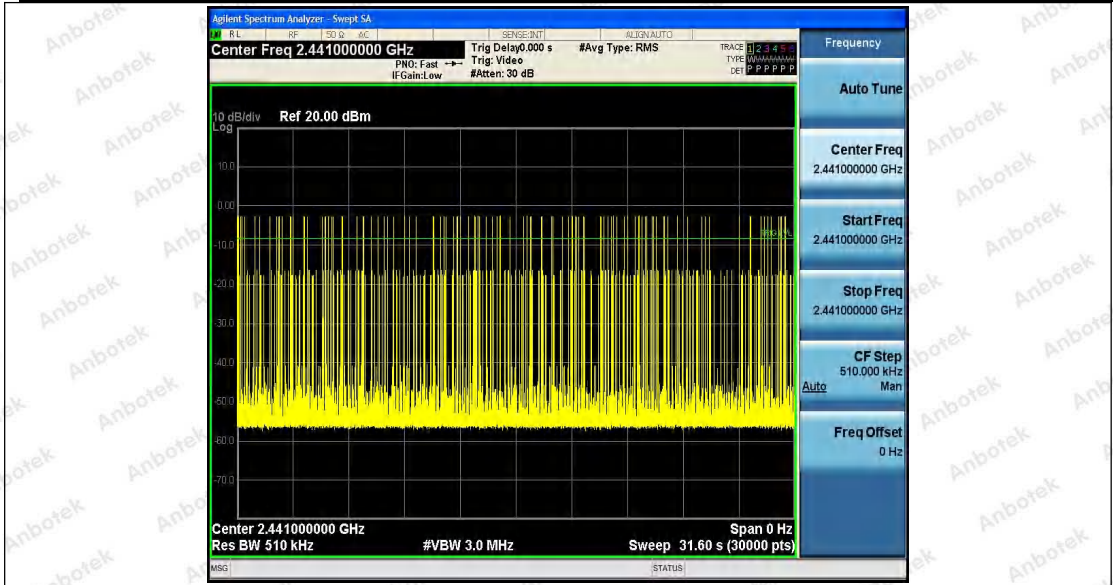
3DH5_Ant1_Hop



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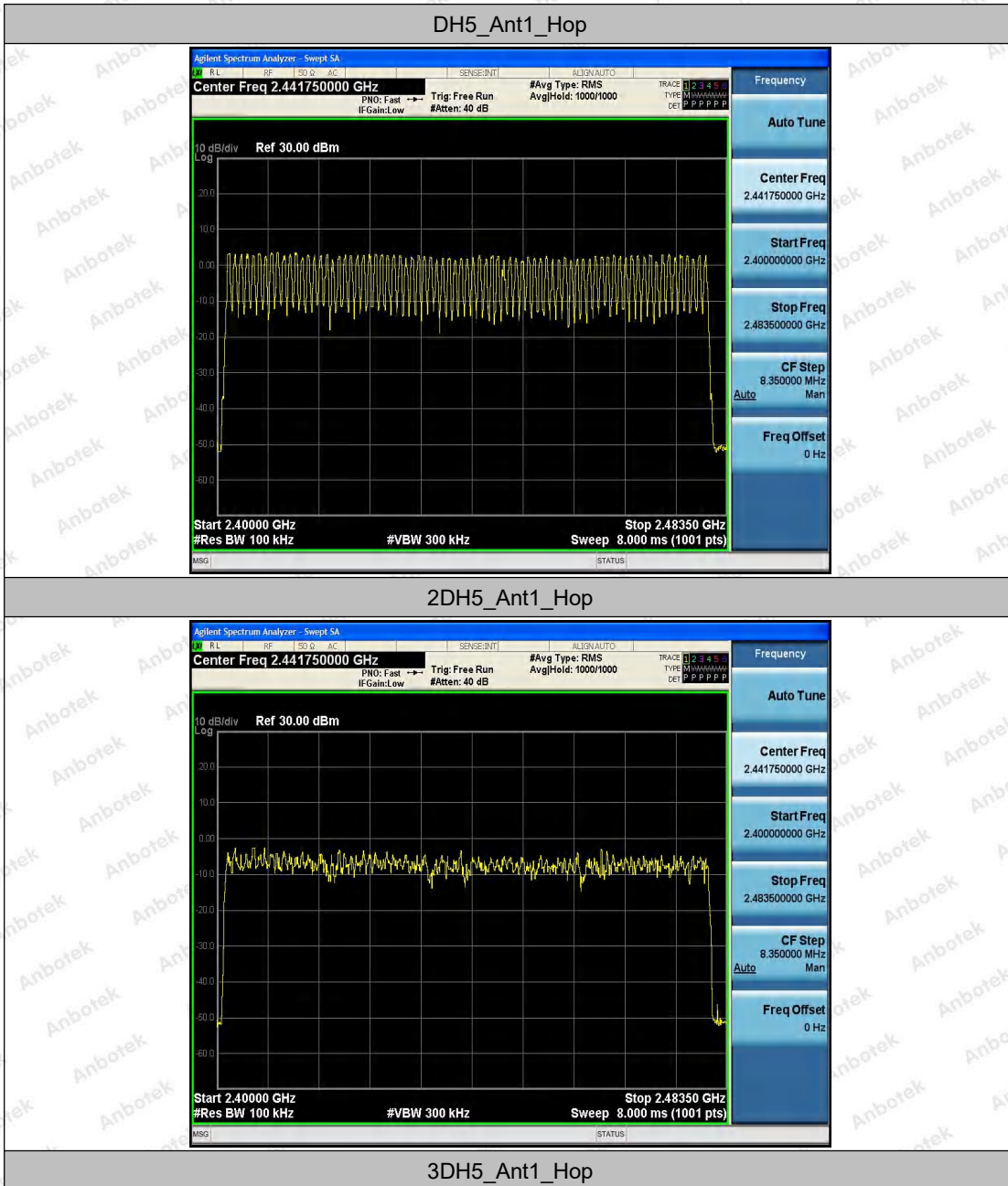
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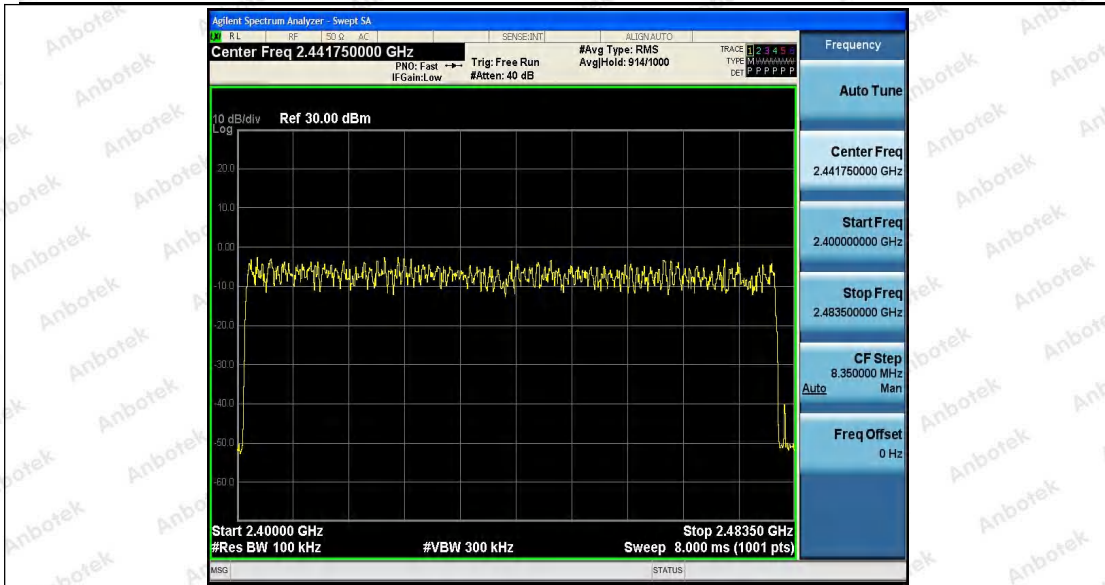
Appendix F: Number of hopping channels

Test Result

Test Mode	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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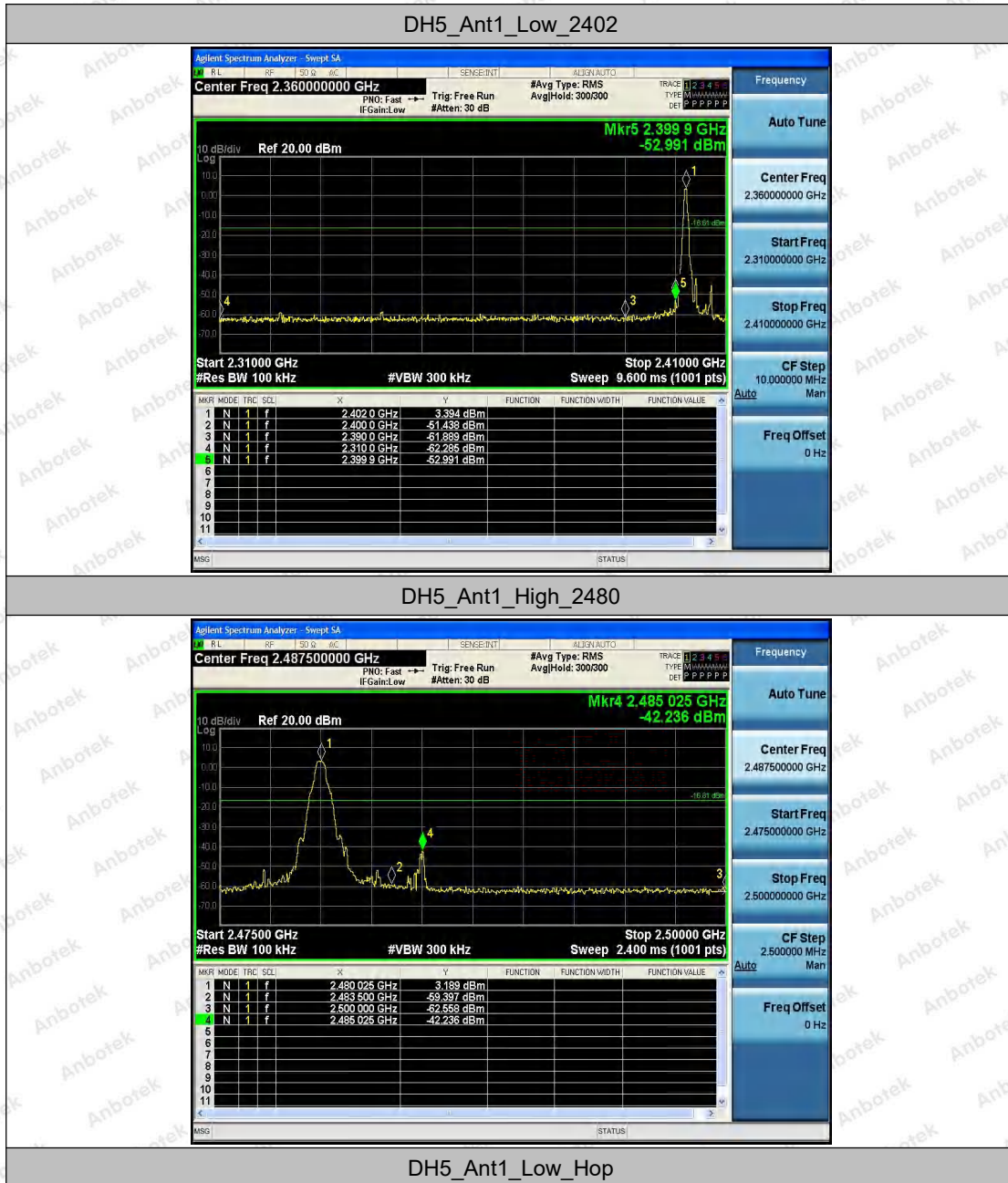
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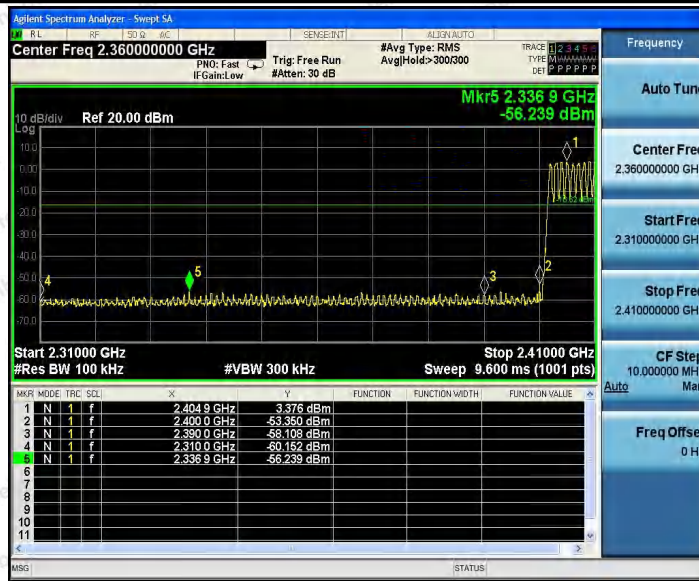
Appendix G: Band edge measurements

Test Result

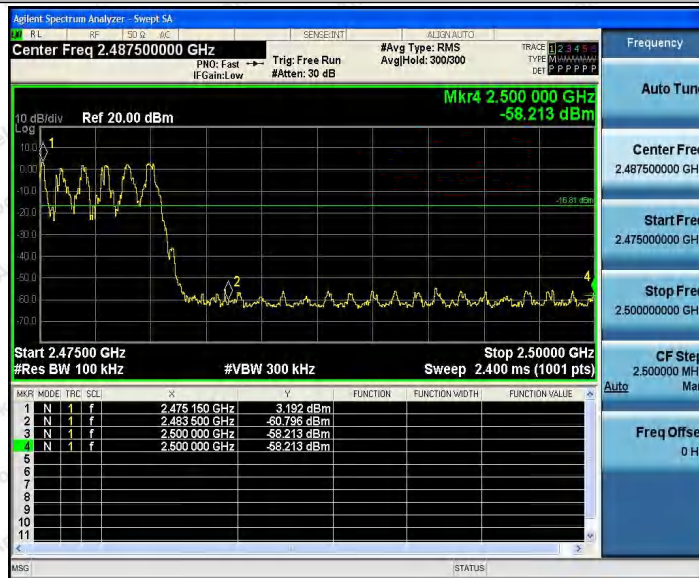
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.39	-52.99	≤-16.61	PASS
		High	2480	3.19	-42.24	≤-16.81	PASS
		Low	Hop	3.38	-56.24	≤-16.62	PASS
		High	Hop	3.19	-58.21	≤-16.81	PASS
2DH5	Ant1	Low	2402	-2.55	-51.82	≤-22.55	PASS
		High	2480	-2.78	-41.6	≤-22.78	PASS
		Low	Hop	-3.97	-59.18	≤-23.97	PASS
		High	Hop	-4.69	-60.41	≤-24.69	PASS
3DH5	Ant1	Low	2402	-2.14	-51.93	≤-22.14	PASS
		High	2480	-3.97	-40.04	≤-23.97	PASS
		Low	Hop	-2.51	-59.11	≤-22.51	PASS
		High	Hop	-3.59	-61.72	≤-23.59	PASS

Test Graphs





DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

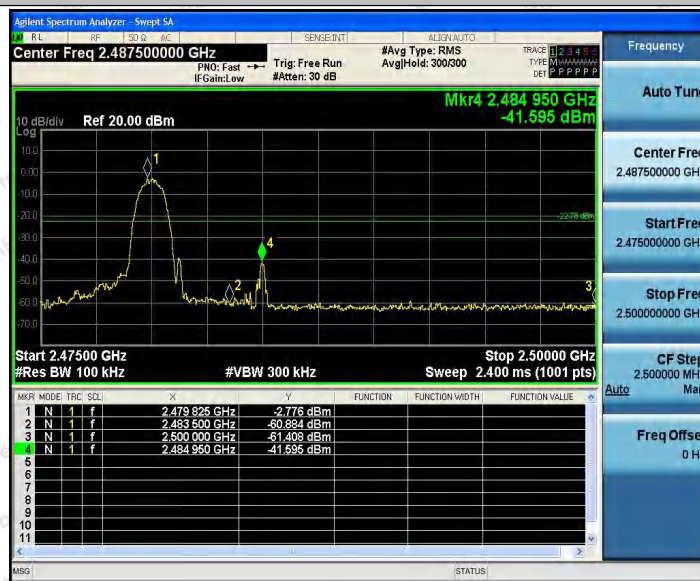


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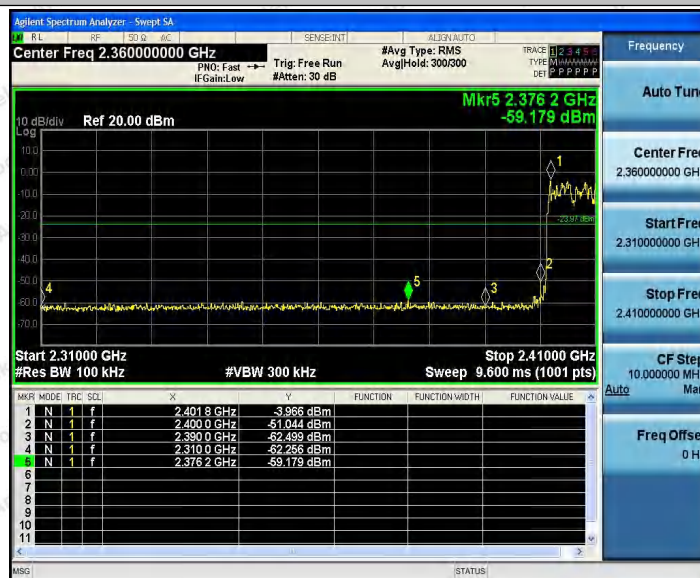
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



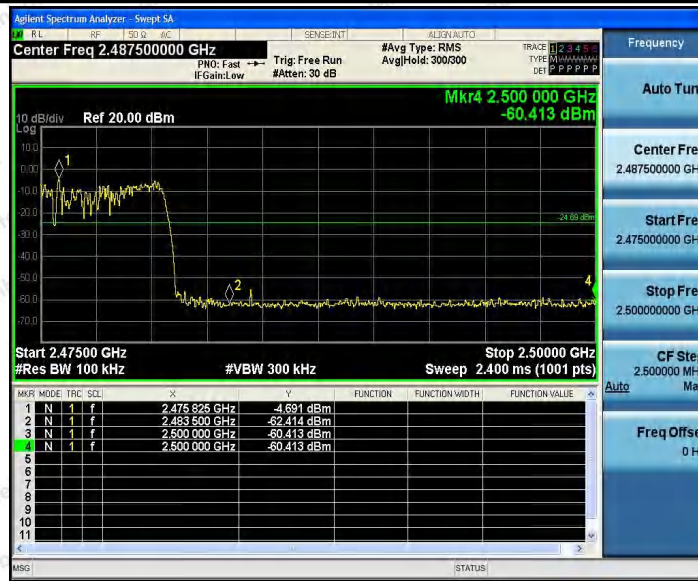
2DH5_Ant1_High_Hop

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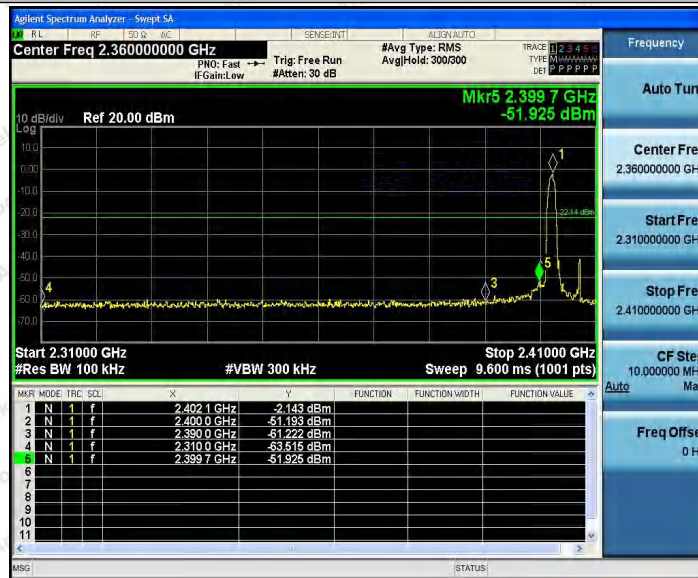
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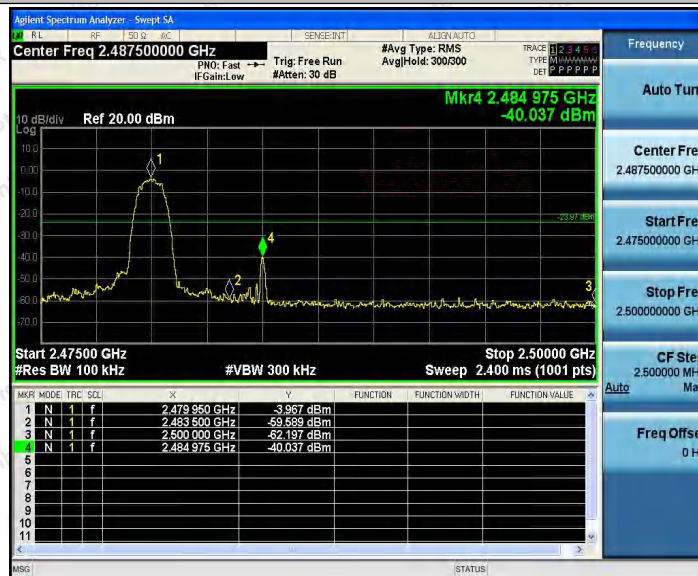
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

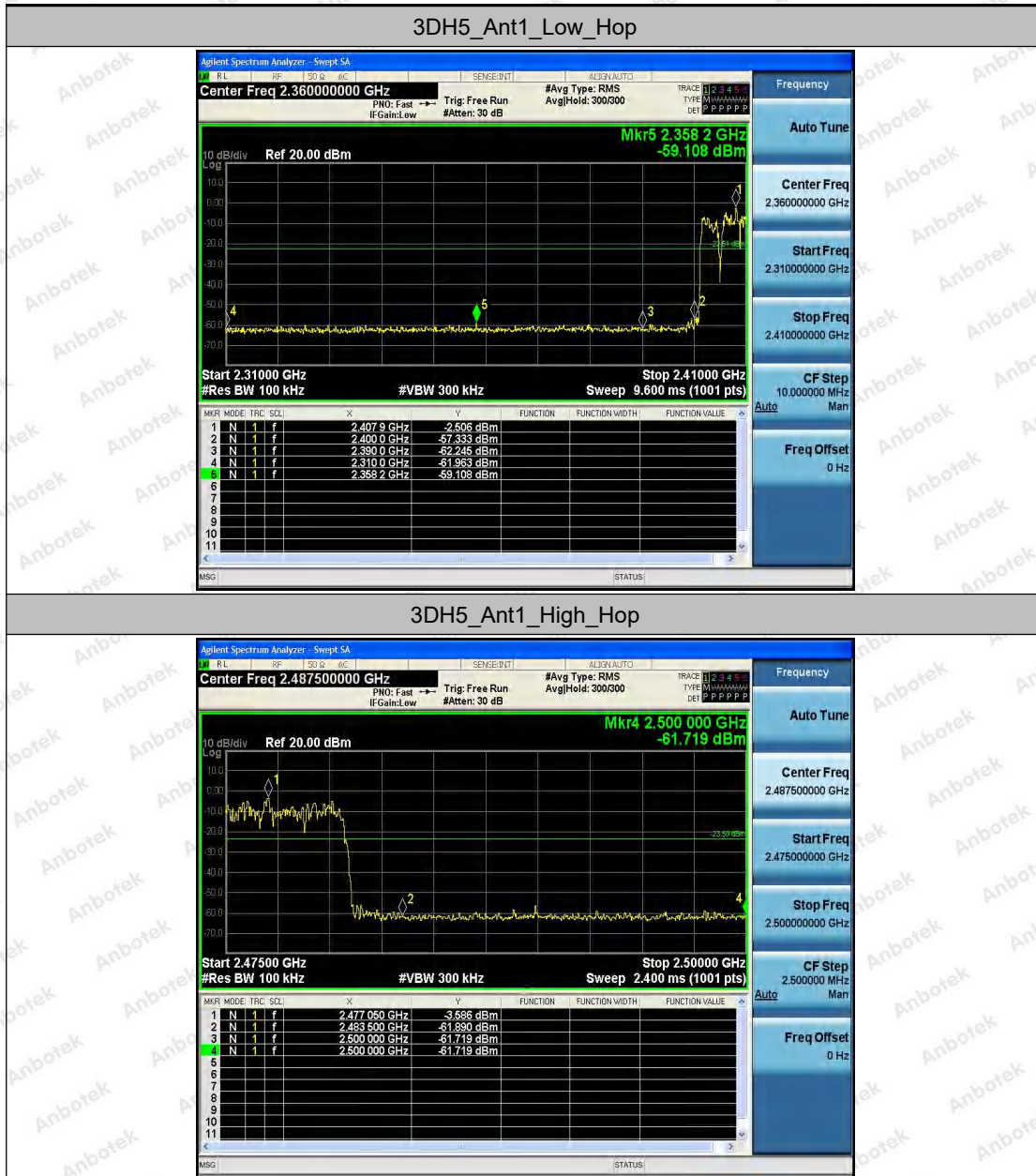


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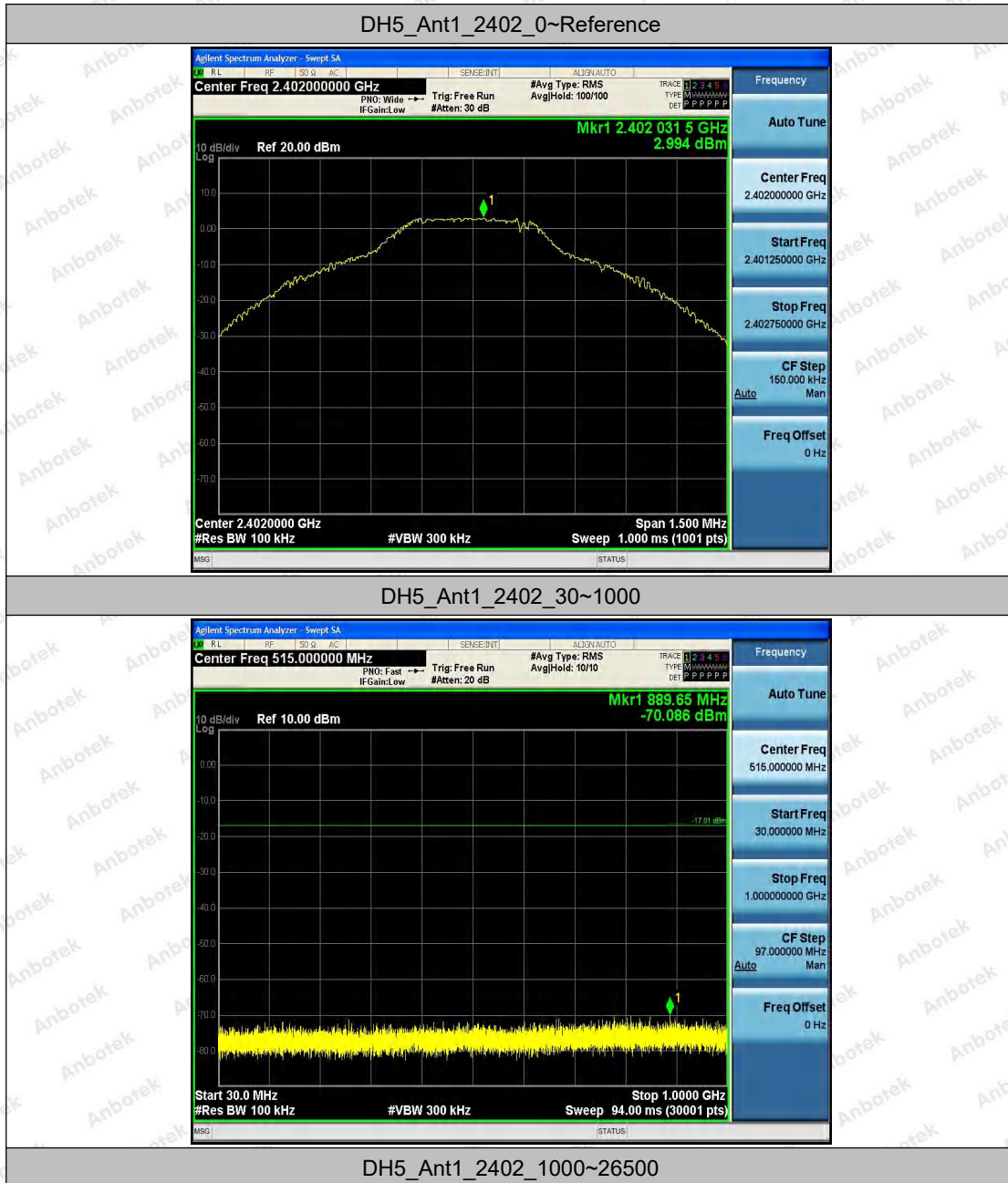
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.99	2.99	---	PASS
			30~1000	2.99	-70.09	≤-17.01	PASS
			1000~26500	2.99	-55.54	≤-17.01	PASS
		2441	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-70	≤-17.35	PASS
			1000~26500	2.65	-55.27	≤-17.35	PASS
		2480	Reference	3.30	3.30	---	PASS
			30~1000	3.30	-70.24	≤-16.7	PASS
			1000~26500	3.30	-54.95	≤-16.7	PASS
2DH5	Ant1	2402	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-69.6	≤-22.34	PASS
			1000~26500	-2.34	-55.65	≤-22.34	PASS
		2441	Reference	-3.87	-3.87	---	PASS
			30~1000	-3.87	-70.1	≤-23.87	PASS
			1000~26500	-3.87	-55.6	≤-23.87	PASS
		2480	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-70.47	≤-22.66	PASS
			1000~26500	-2.66	-55.48	≤-22.66	PASS
3DH5	Ant1	2402	Reference	-2.53	-2.53	---	PASS
			30~1000	-2.53	-70.42	≤-22.53	PASS
			1000~26500	-2.53	-55.32	≤-22.53	PASS
		2441	Reference	-3.25	-3.25	---	PASS
			30~1000	-3.25	-70.15	≤-23.25	PASS
			1000~26500	-3.25	-54.42	≤-23.25	PASS
		2480	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-70.55	≤-22.67	PASS
			1000~26500	-2.67	-53.66	≤-22.67	PASS

Test Graphs

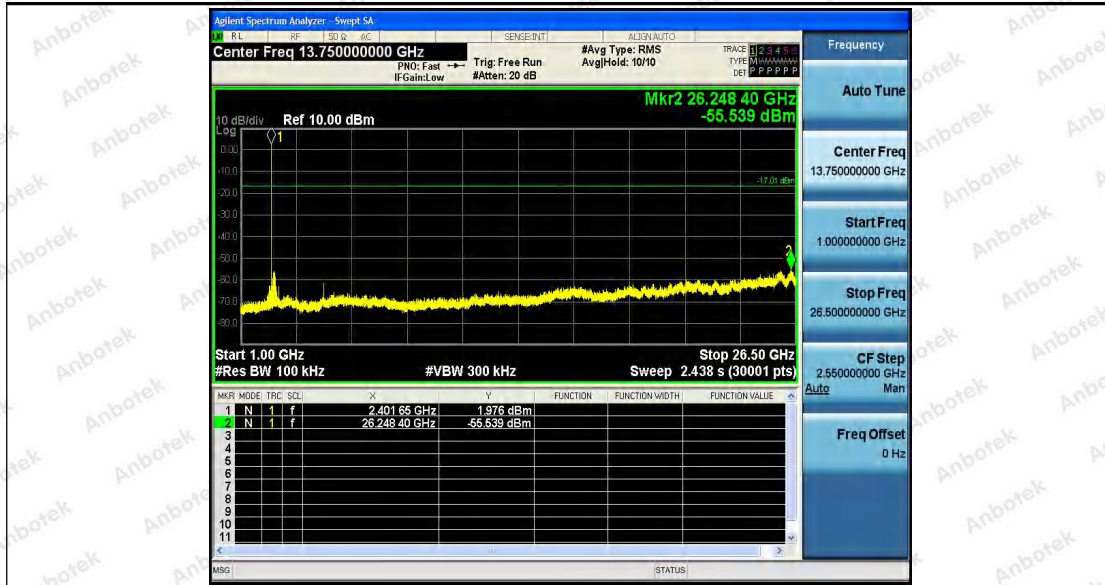


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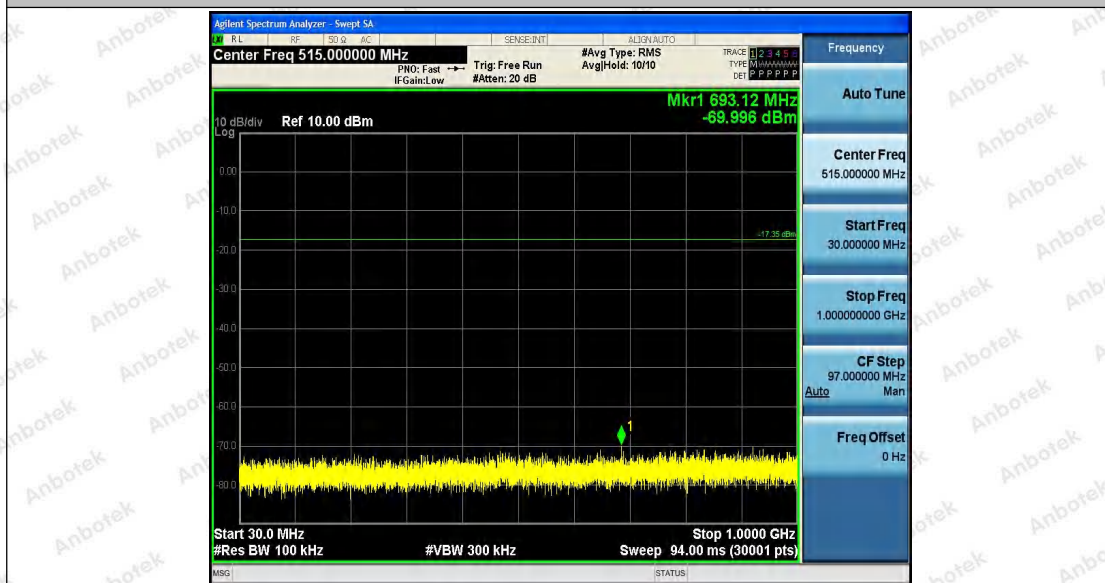
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

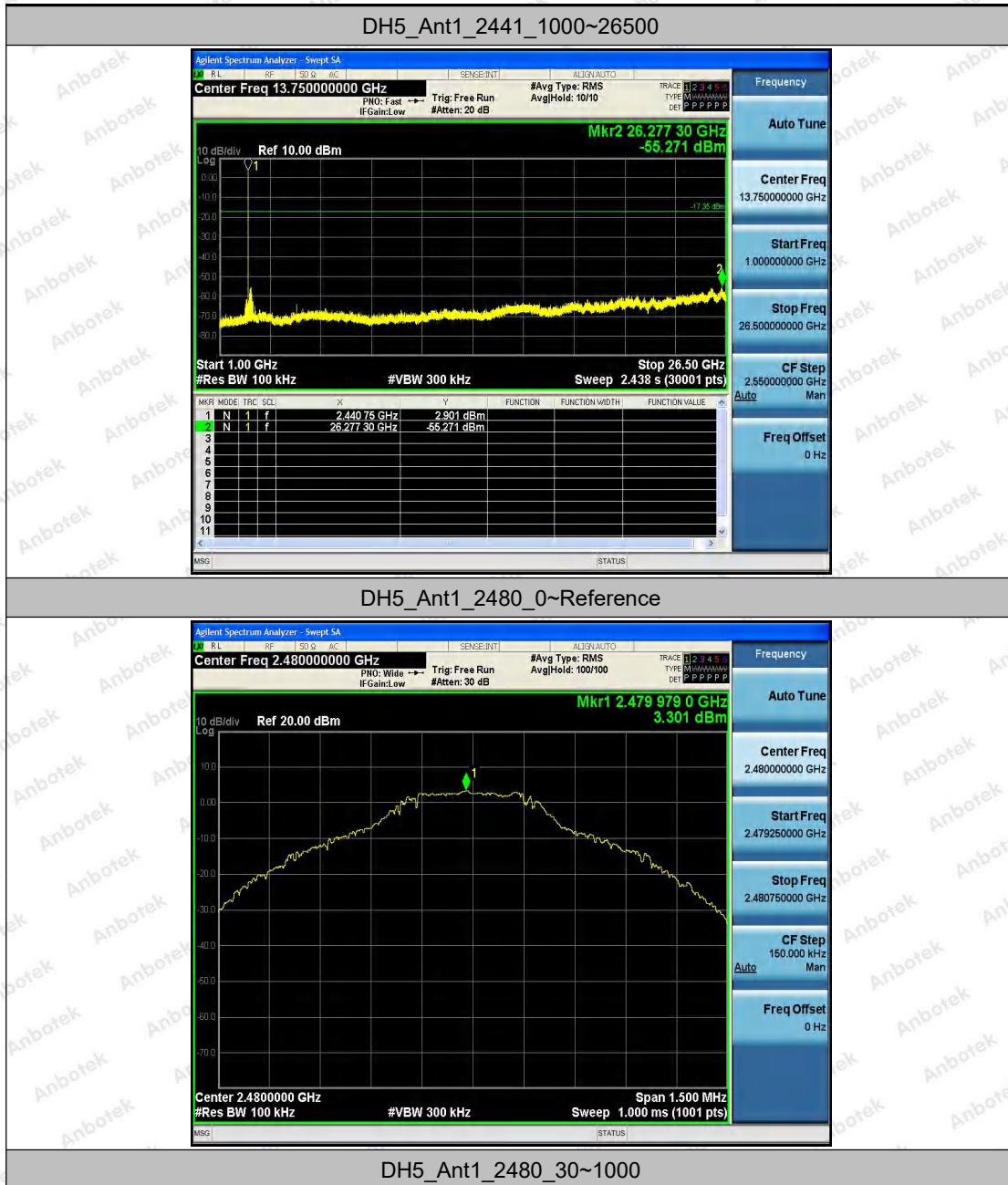


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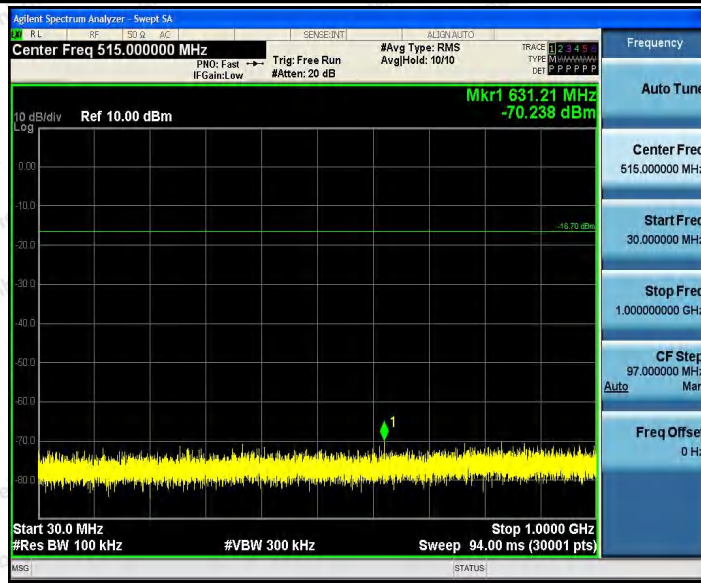
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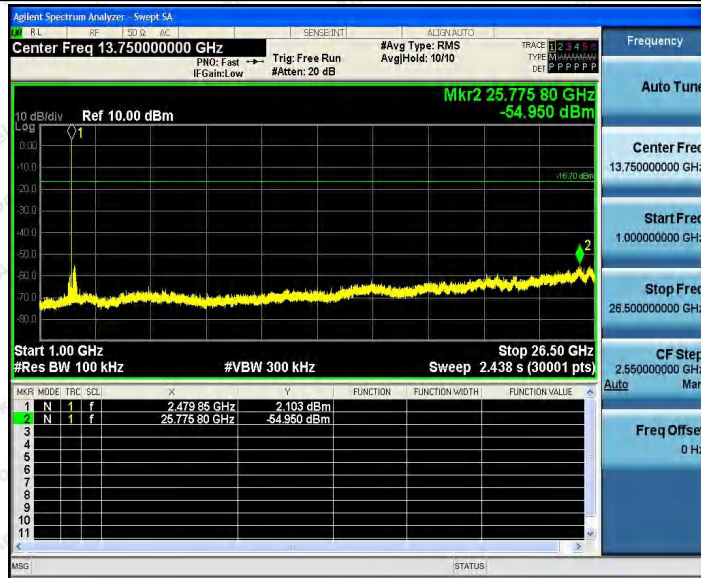
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

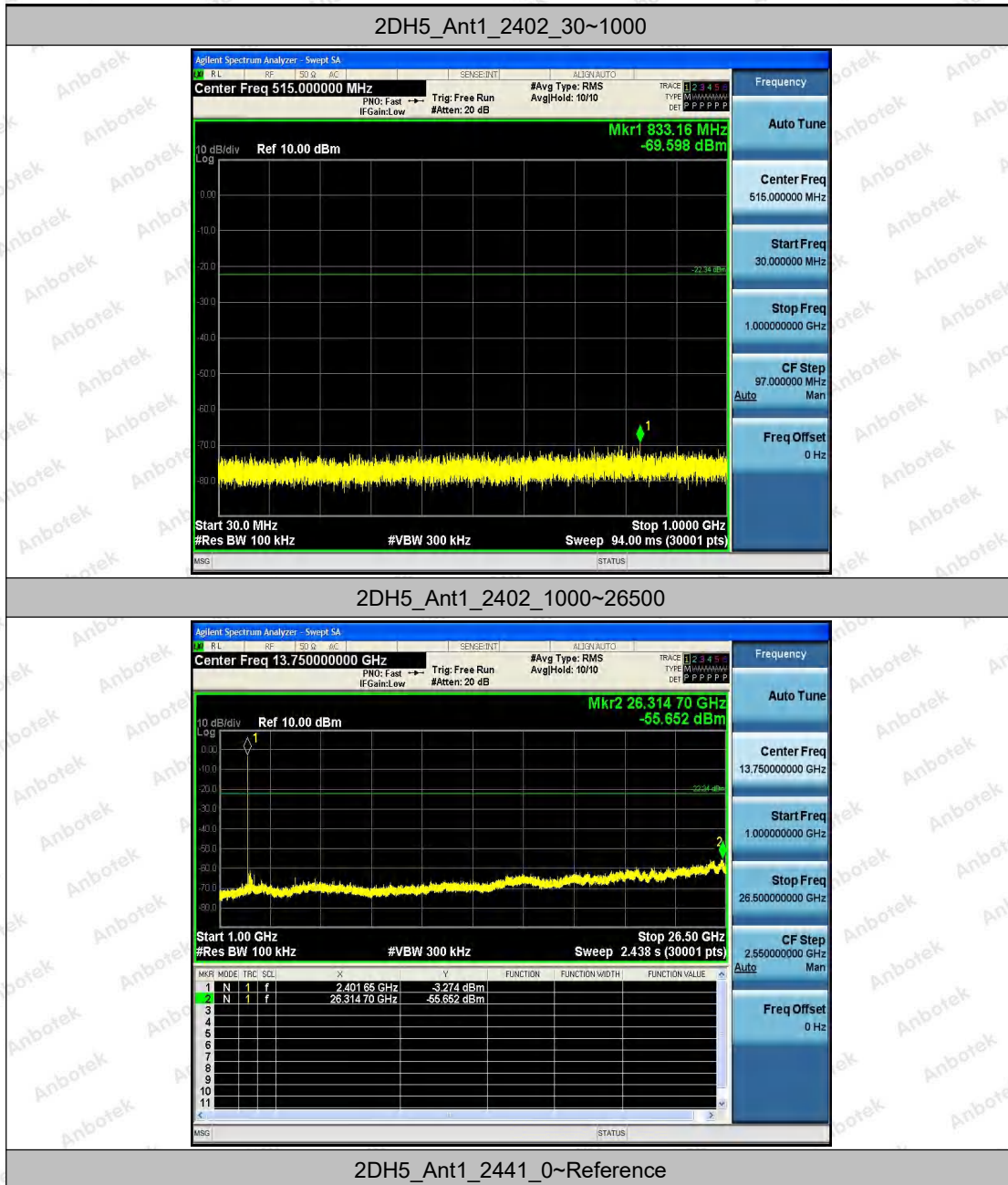


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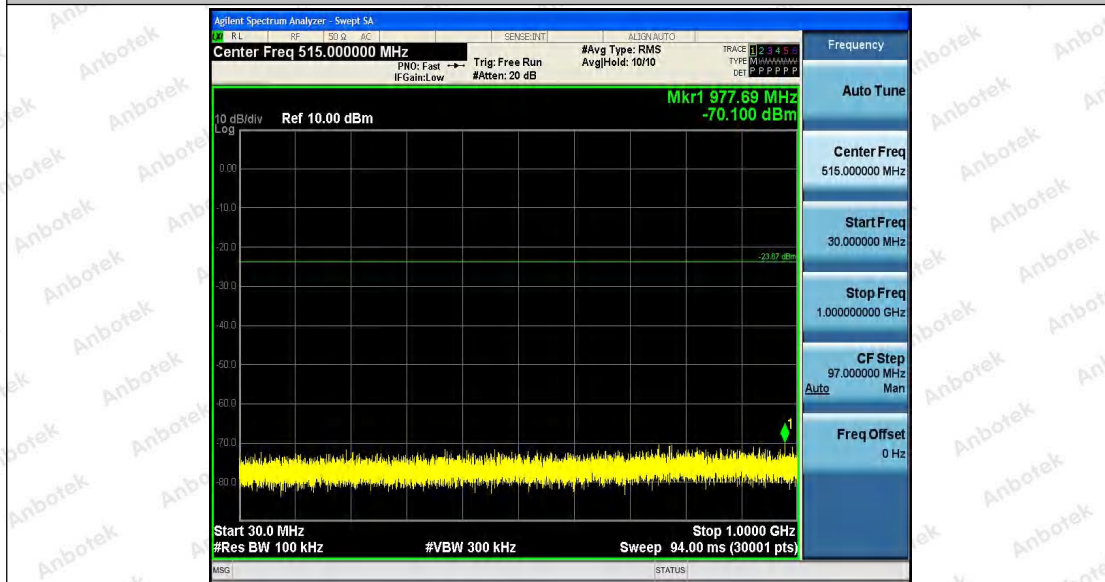
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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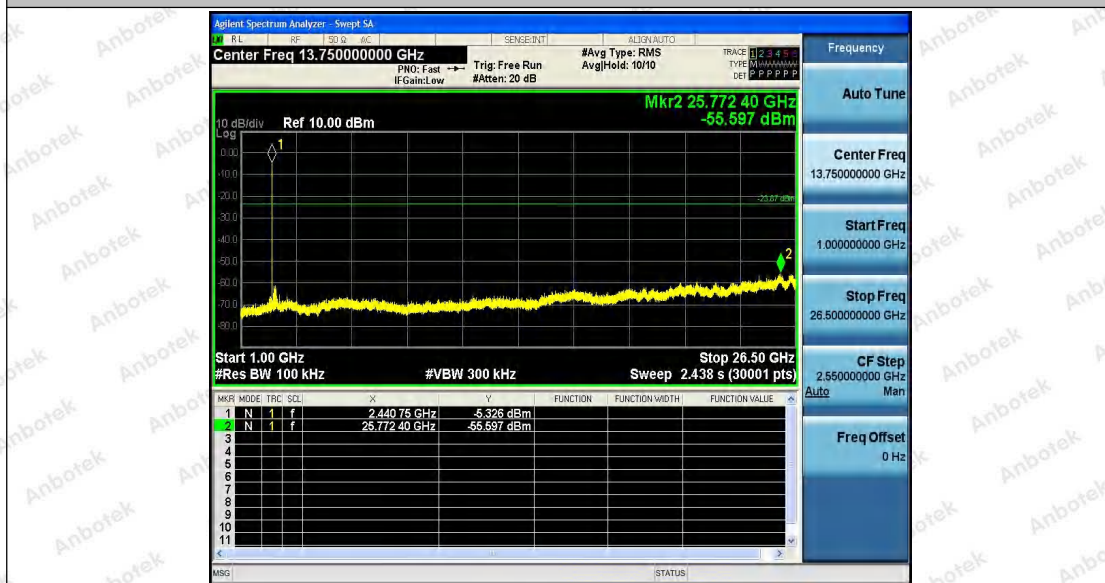
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

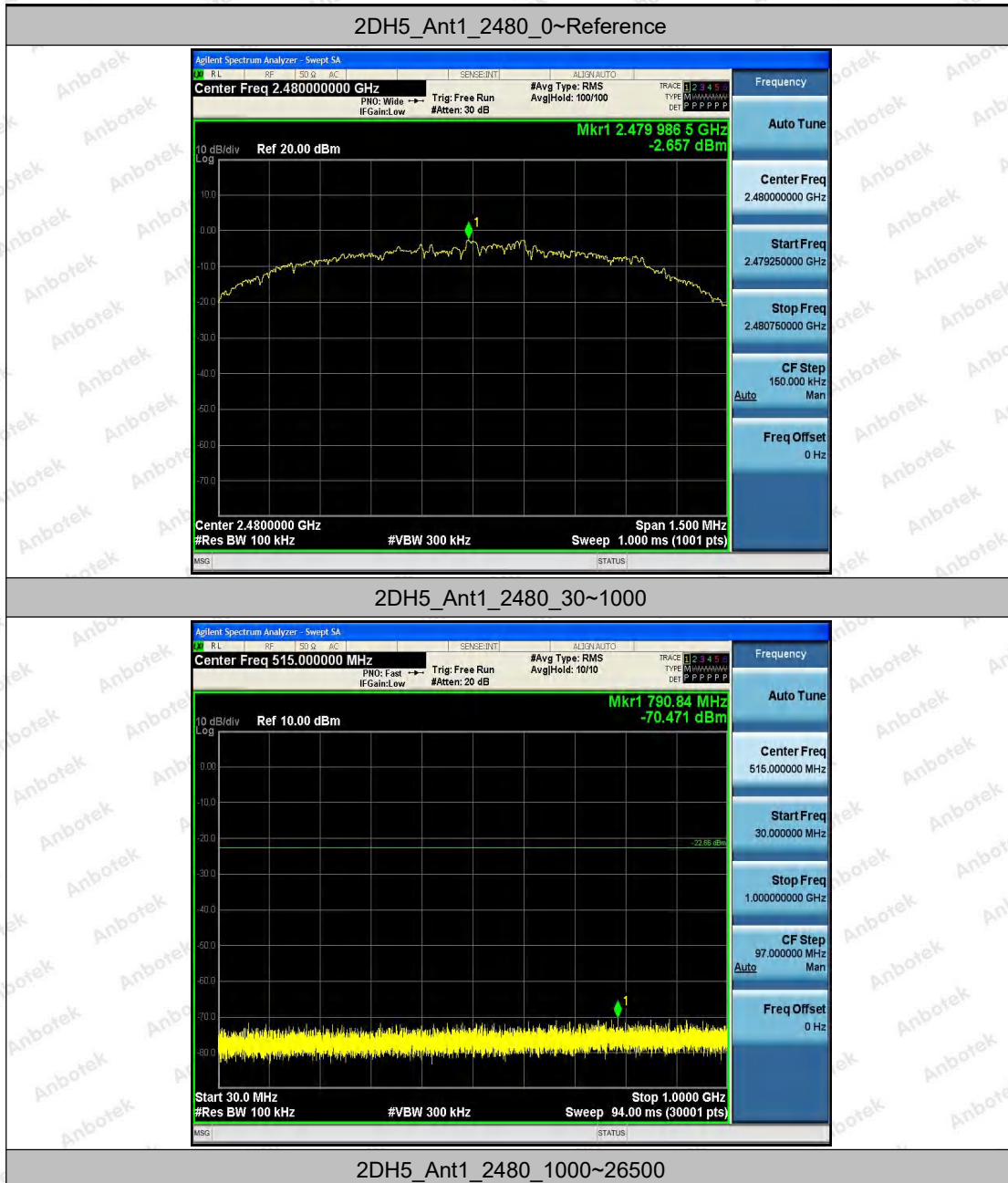


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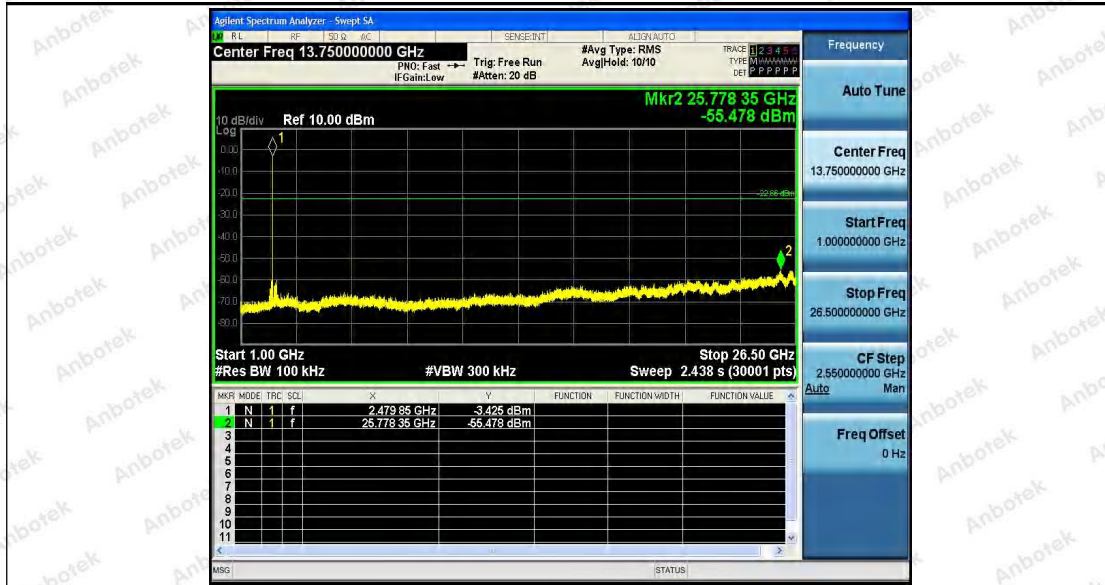
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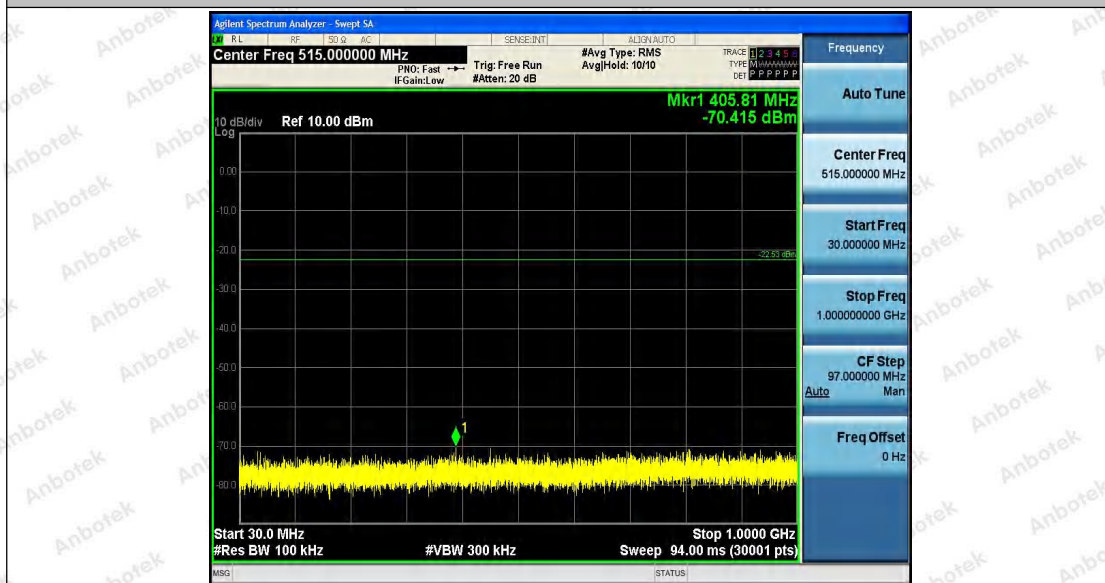
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

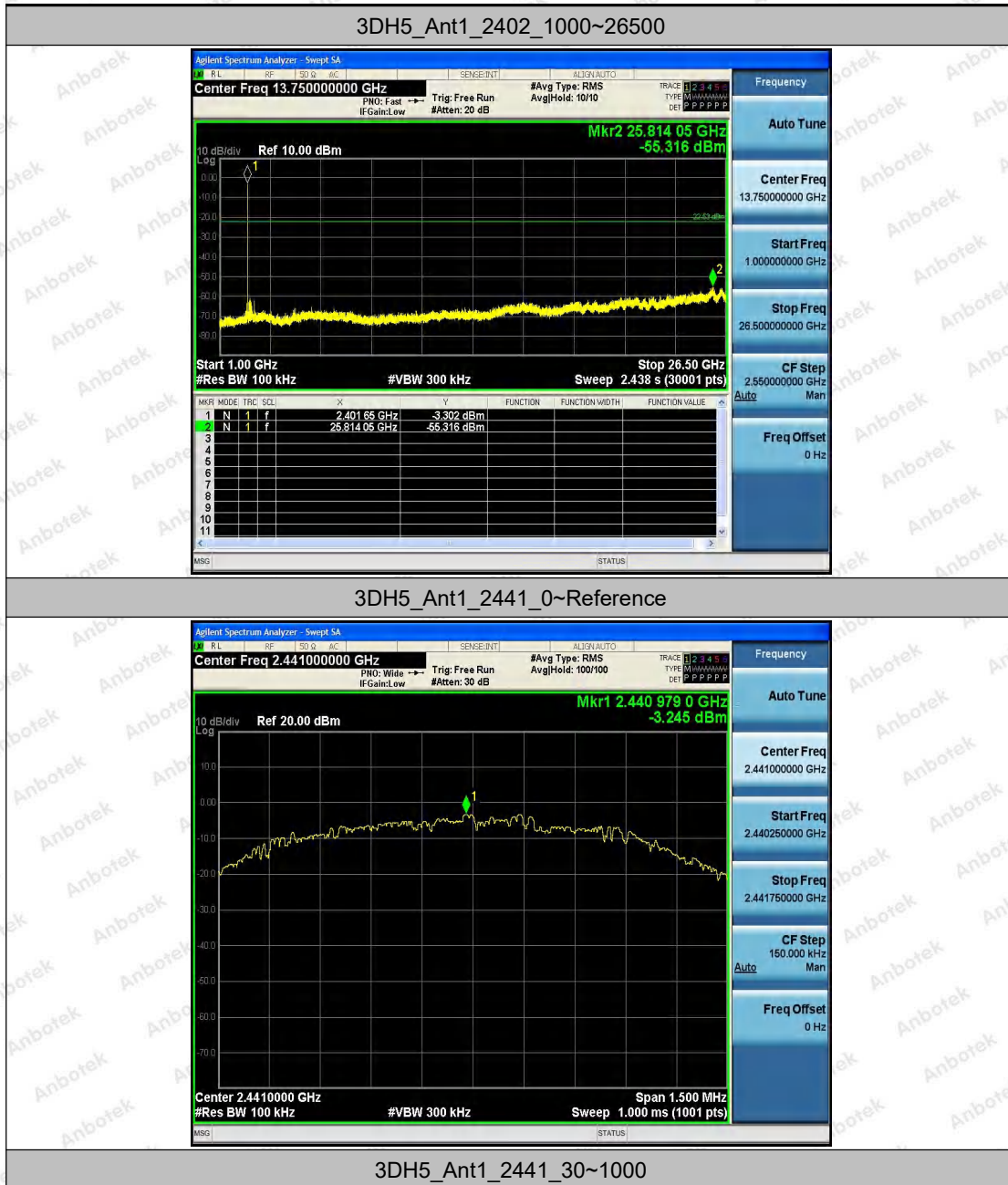


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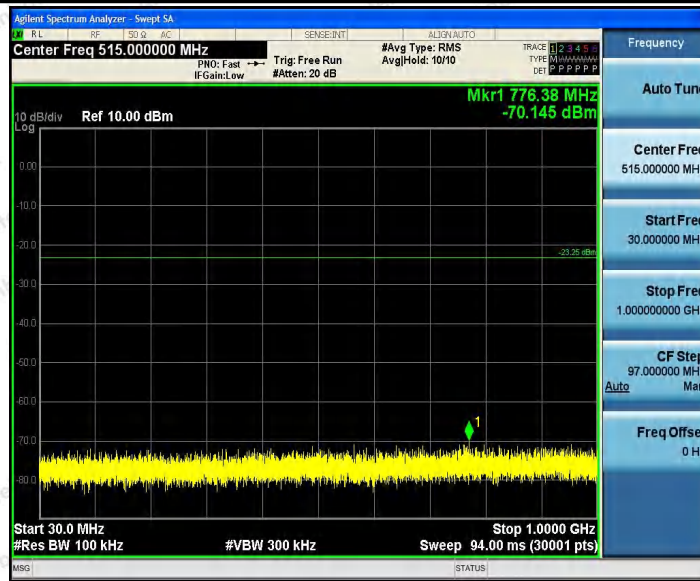
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

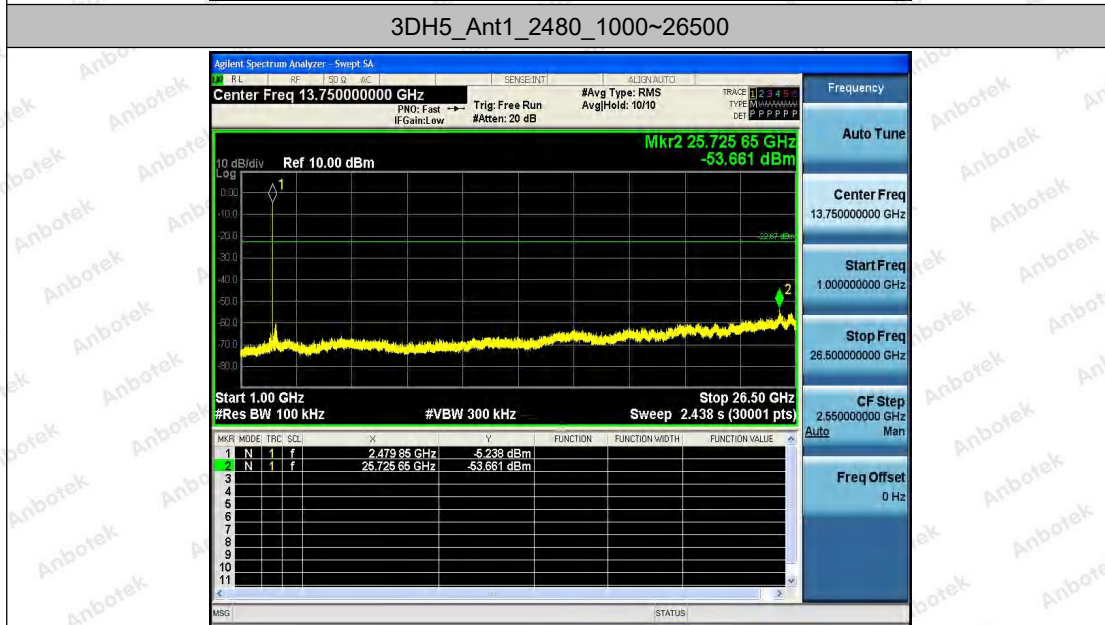
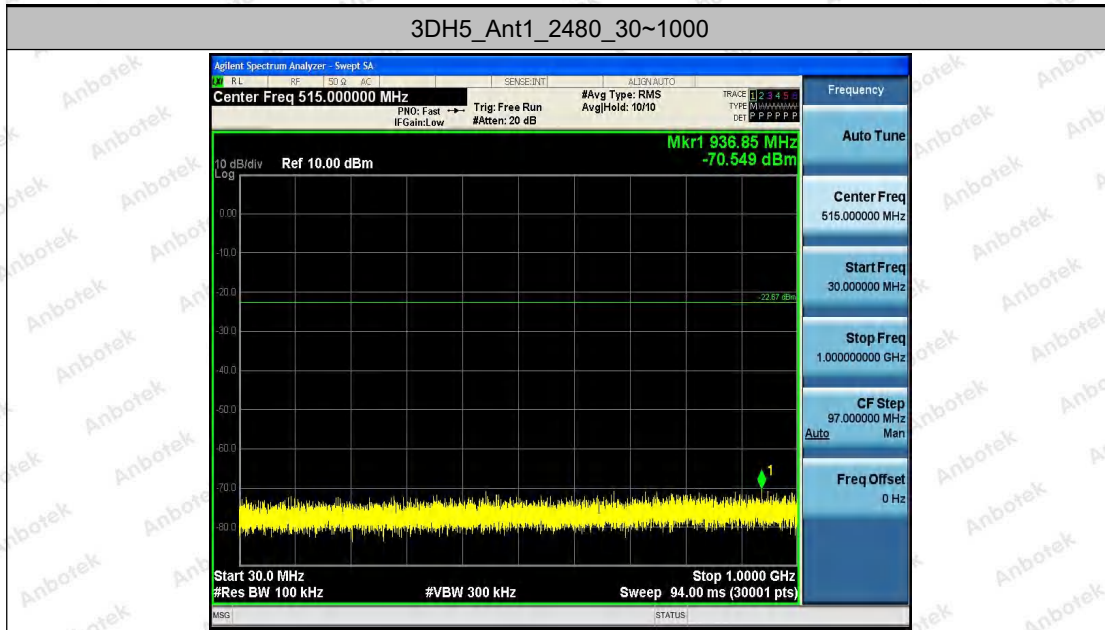


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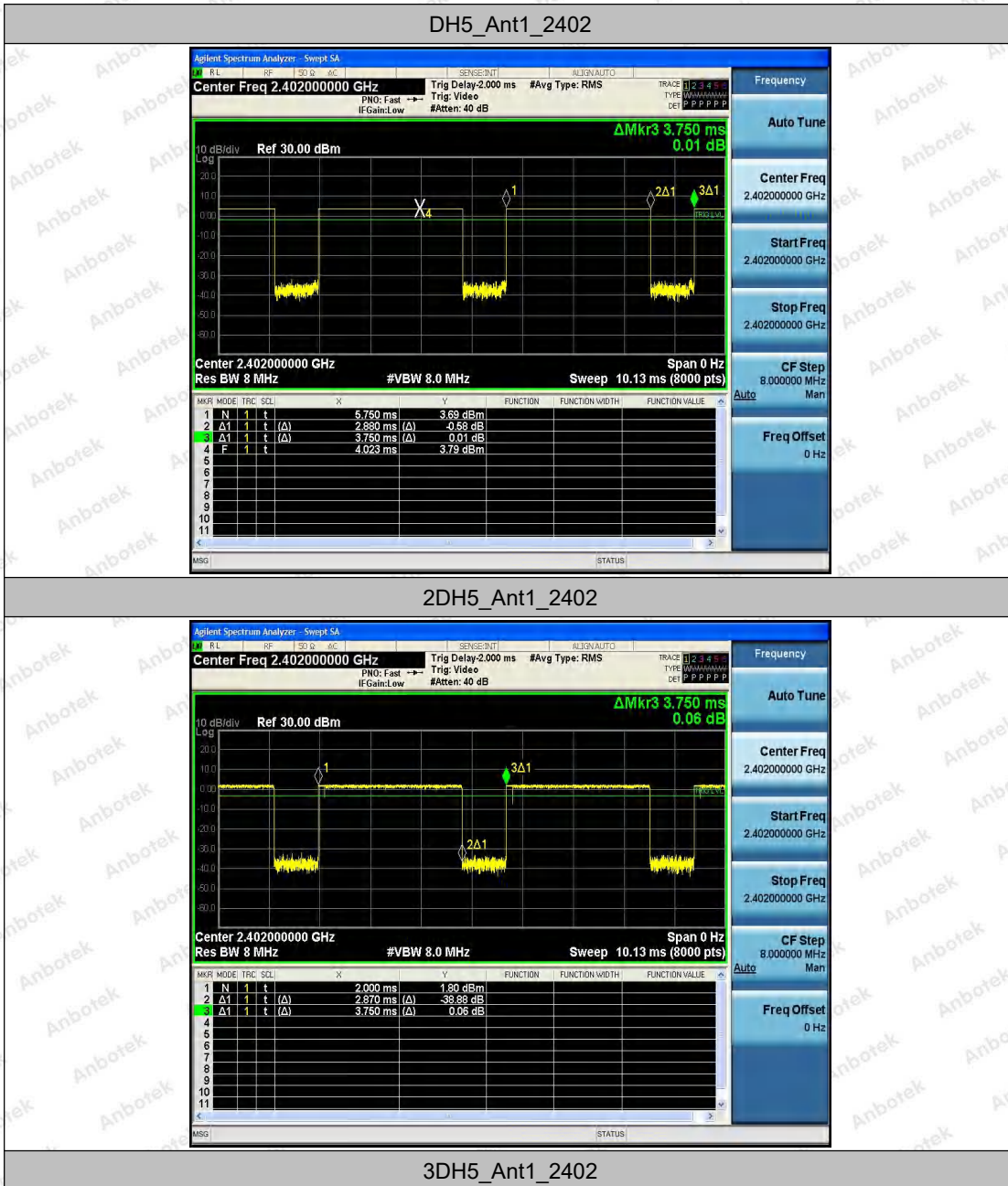
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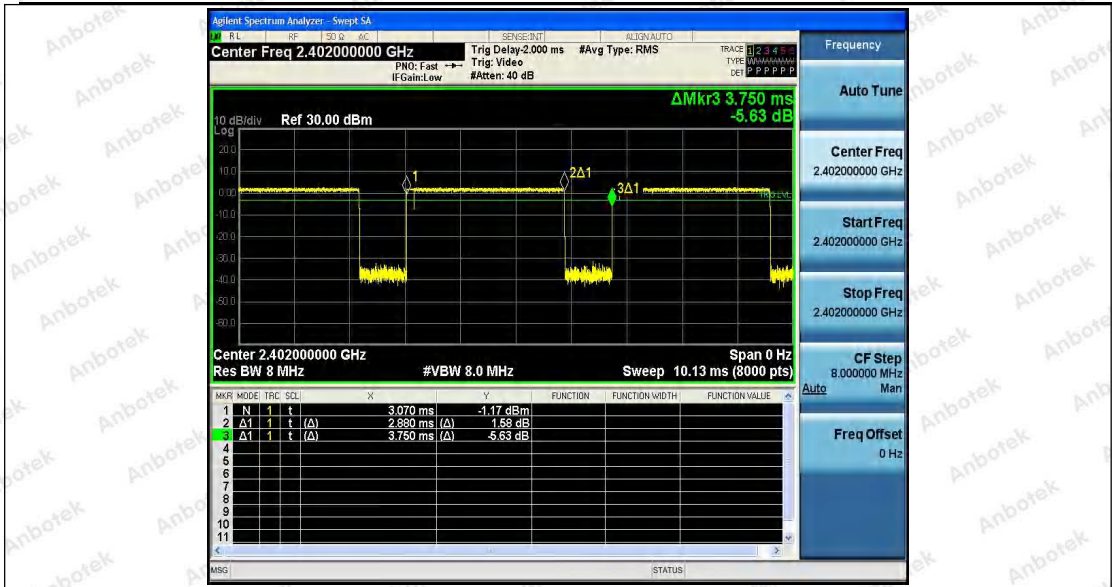
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---

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