

Appendix Test Data

Report No.:	18220WC20006901	Test Sample No.:	1-2-2
Start Test Date:	2022.1.12	Finish Test Date:	2022.1.20
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3C°	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	0.942	2401.535	2402.477	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.945	2479.532	2480.477	---	PASS
2DH5	Ant1	2402	1.326	2401.331	2402.657	---	PASS
		2441	1.311	2440.337	2441.648	---	PASS
		2480	1.323	2479.331	2480.654	---	PASS
3DH5	Ant1	2402	1.344	2401.319	2402.663	---	PASS
		2441	1.314	2440.340	2441.654	---	PASS
		2480	1.275	2479.346	2480.621	---	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 B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89545	2401.55 1	2402.447	---	PASS
		2441	0.89775	2440.54 9	2441.447	---	PASS
		2480	0.89289	2479.55 0	2480.443	---	PASS
2DH5	Ant1	2402	1.1999	2401.39 3	2402.593	---	PASS
		2441	1.1899	2440.39 9	2441.589	---	PASS
		2480	1.1823	2479.40 2	2480.584	---	PASS
3DH5	Ant1	2402	1.2125	2401.37 9	2402.592	---	PASS
		2441	1.2035	2440.38 6	2441.589	---	PASS
		2480	1.1971	2479.39 0	2480.587	---	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

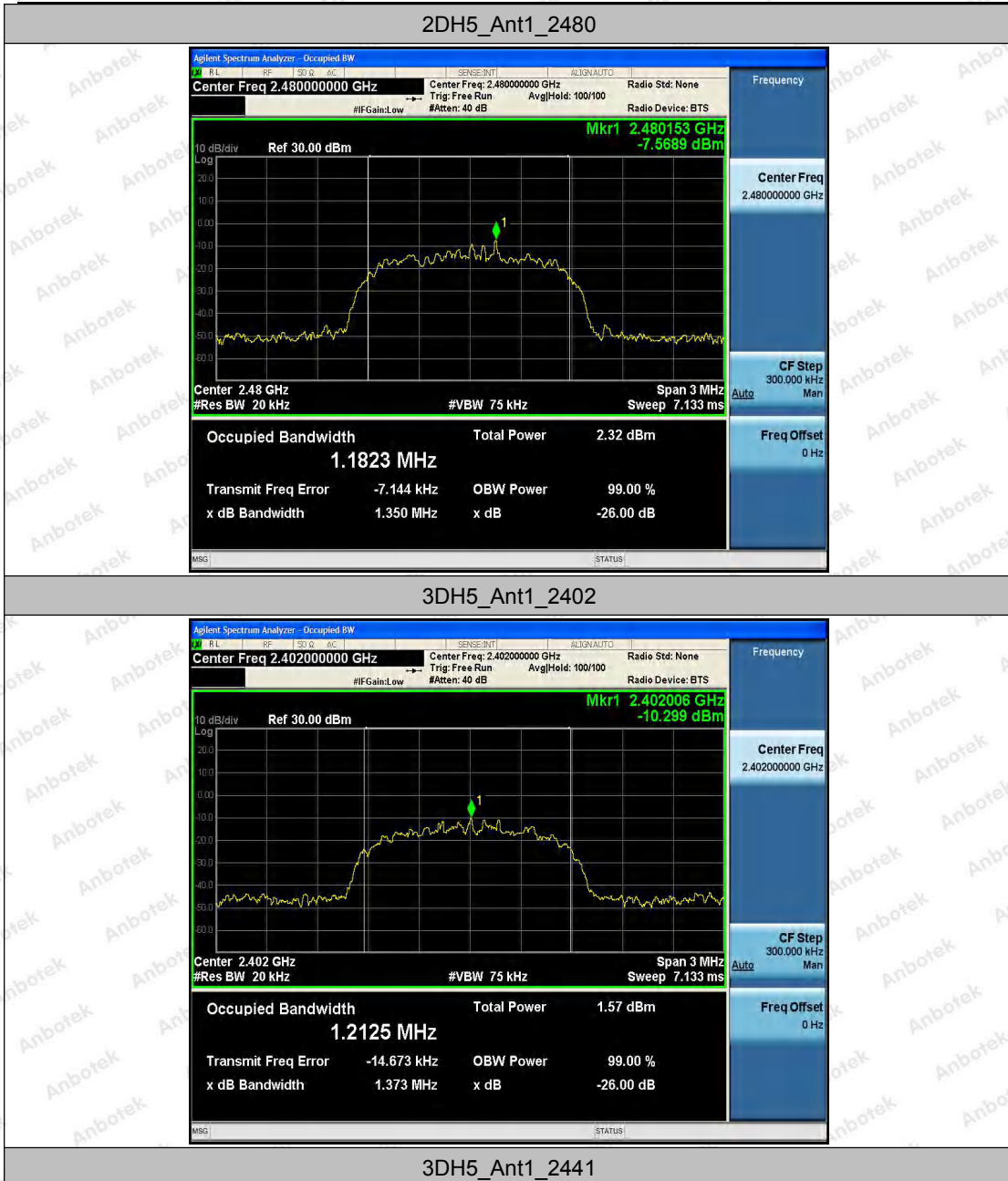


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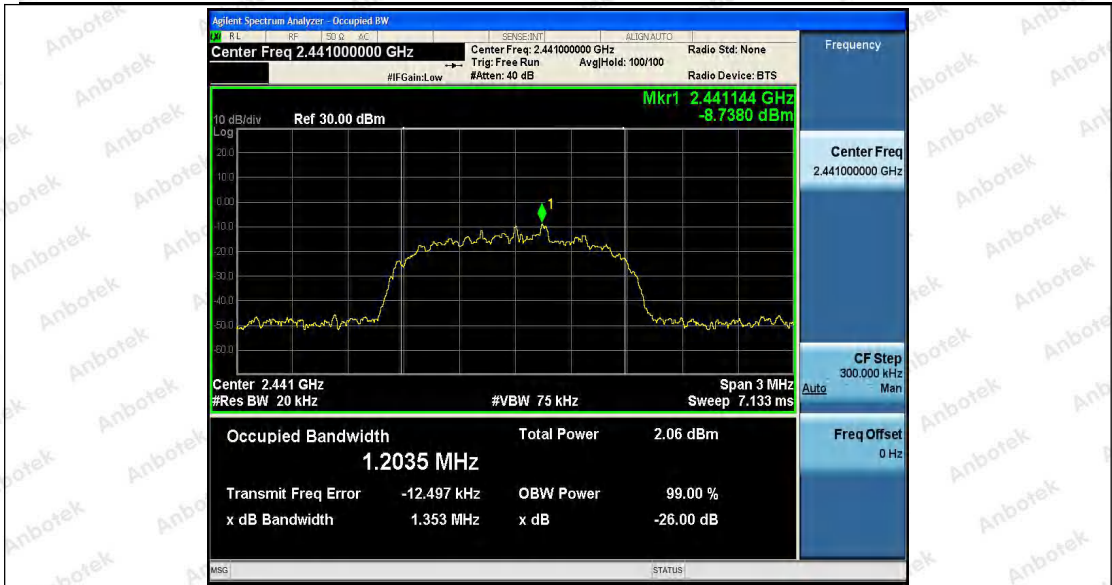


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3DH5_Ant1_2480



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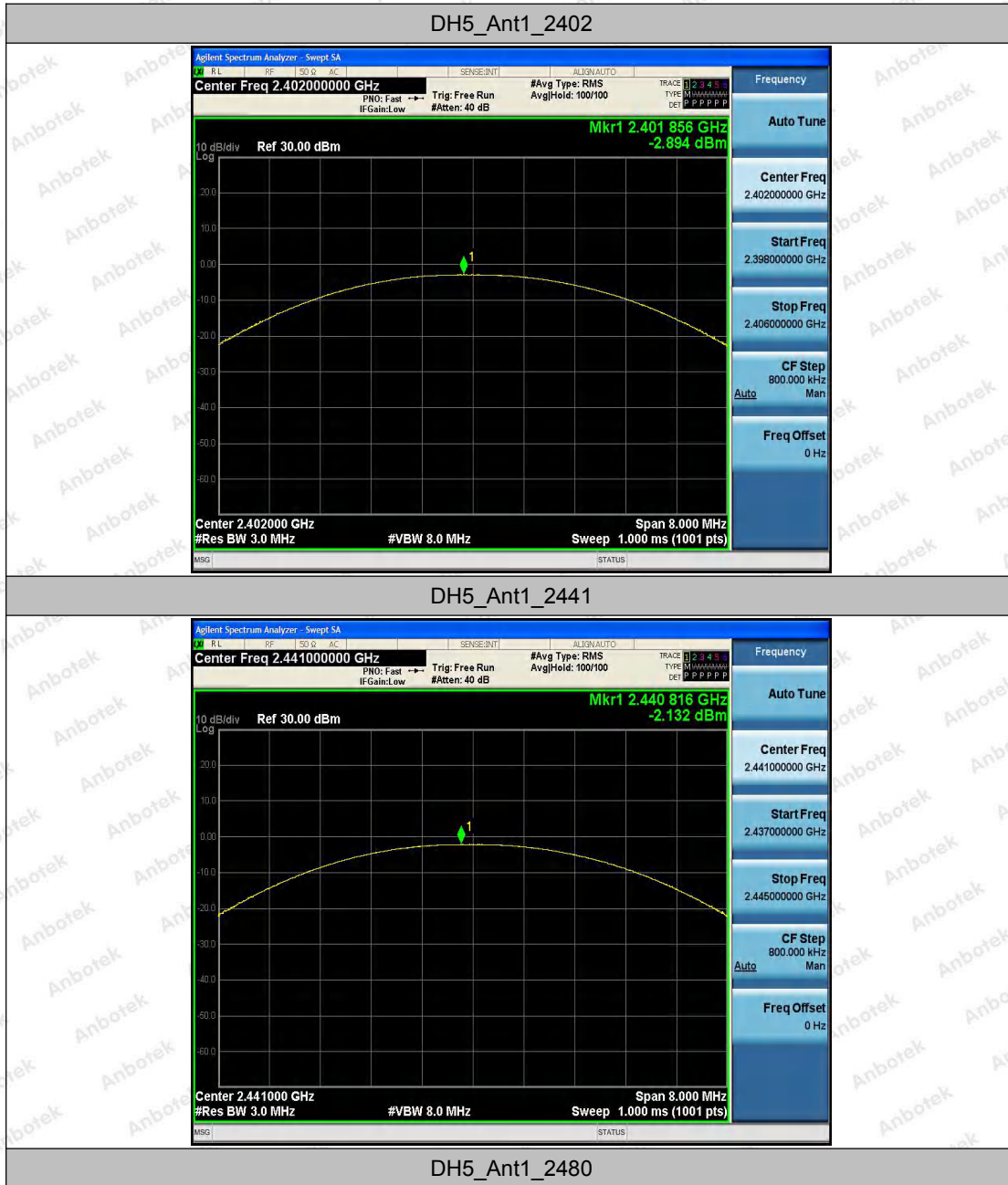
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.89	≤20.97	PASS
		2441	-2.13	≤20.97	PASS
		2480	-1.82	≤20.97	PASS
2DH5	Ant1	2402	-3.63	≤20.97	PASS
		2441	-2.97	≤20.97	PASS
		2480	-2.71	≤20.97	PASS
3DH5	Ant1	2402	-3.41	≤20.97	PASS
		2441	-2.78	≤20.97	PASS
		2480	-2.69	≤20.97	PASS

Test Graphs

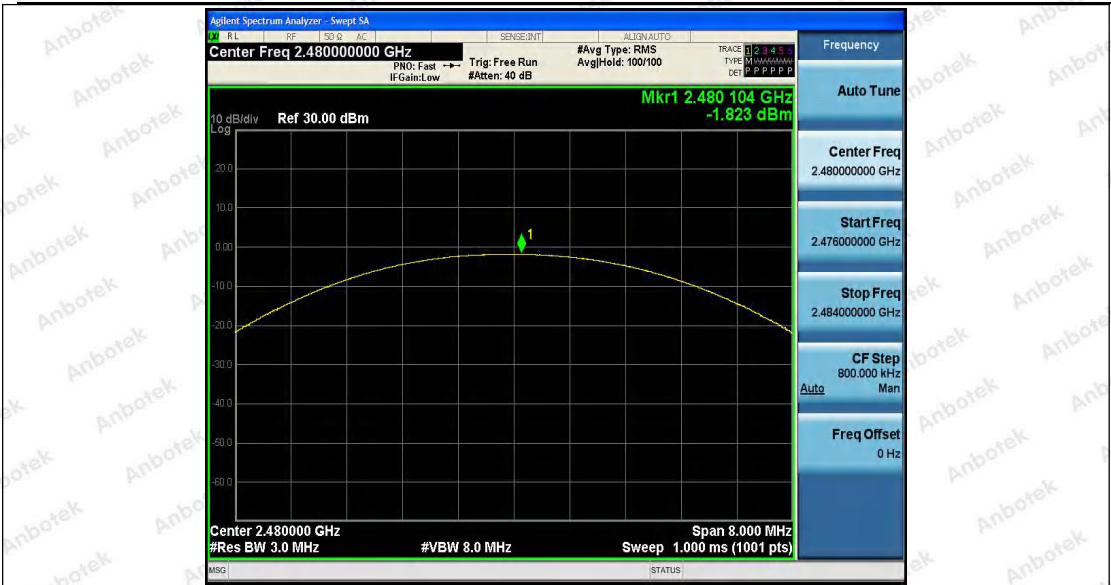


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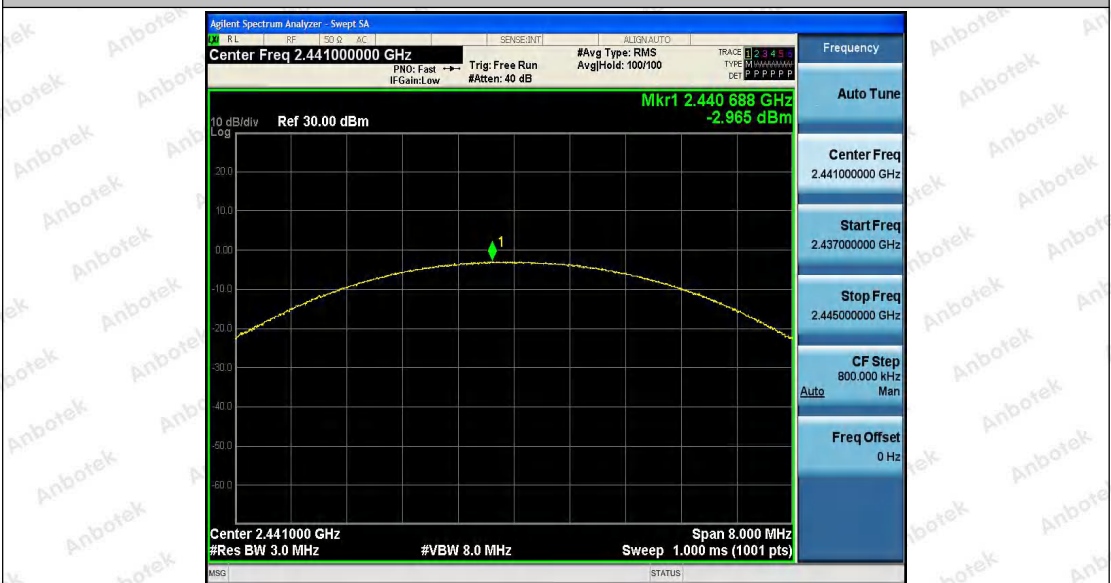
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2DH5_Ant1_2402



2DH5_Ant1_2441

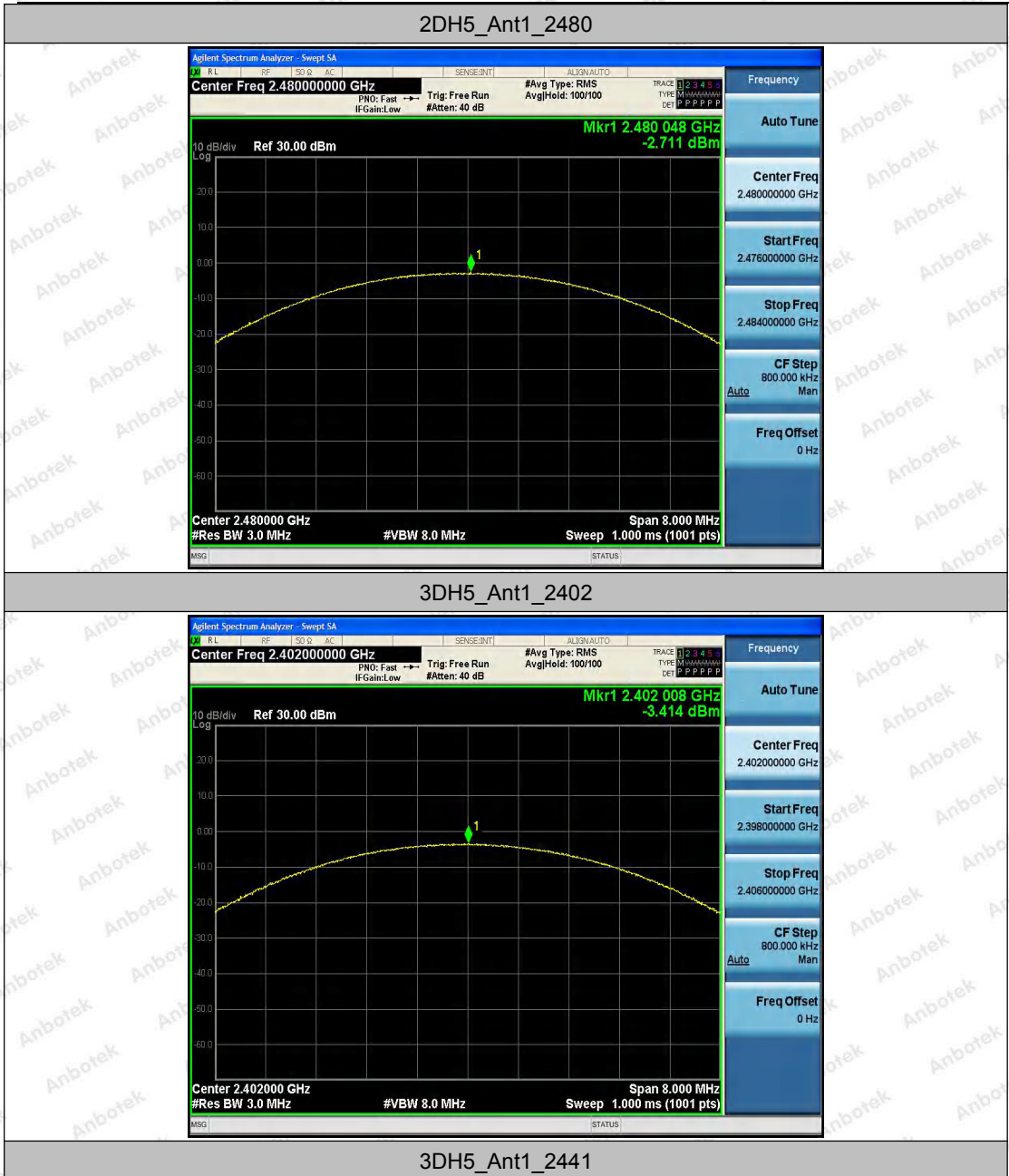


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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.95	≥0.948	PASS
2DH5	Ant1	Hop	1.124	≥0.884	PASS
3DH5	Ant1	Hop	1.254	≥0.896	PASS

Test Graphs



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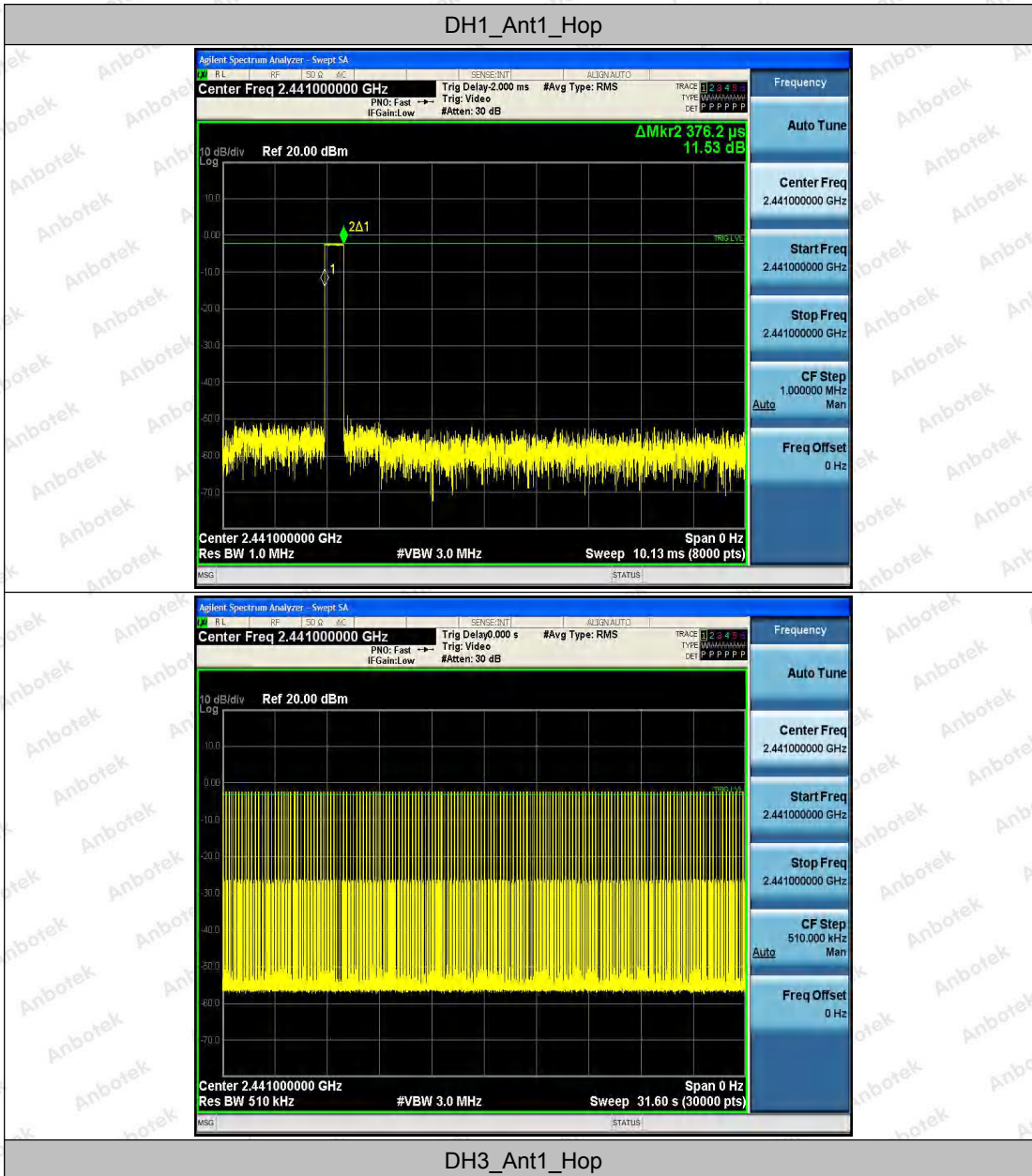
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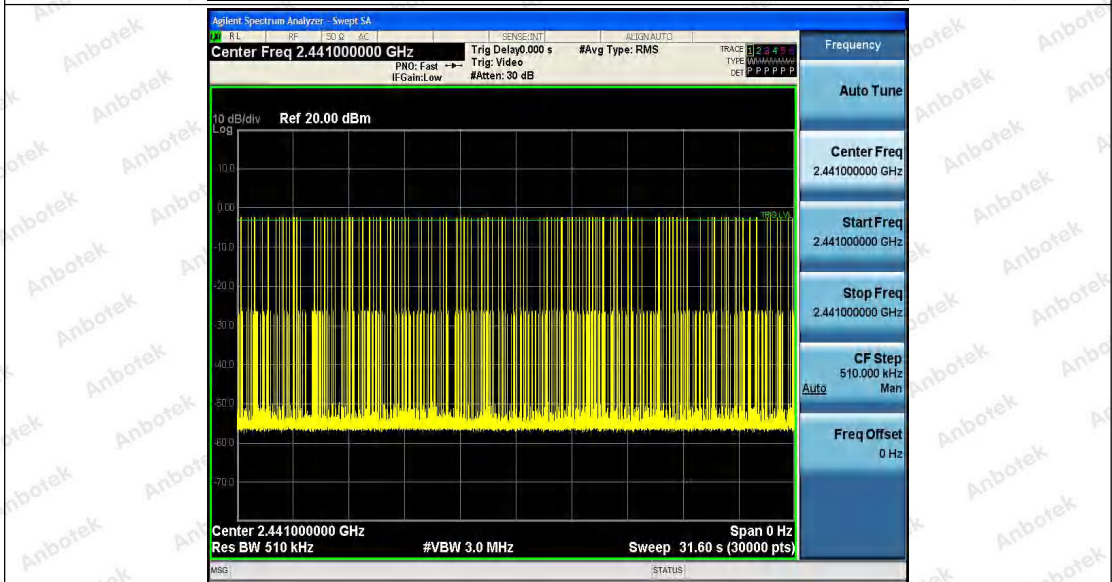
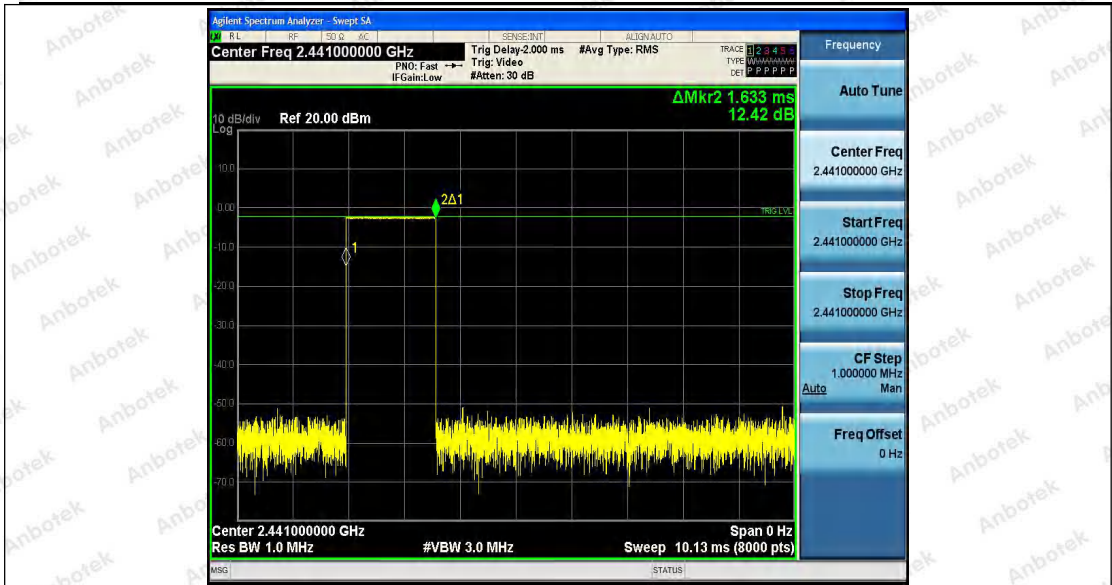
Appendix E: Time of occupancy

Test Result

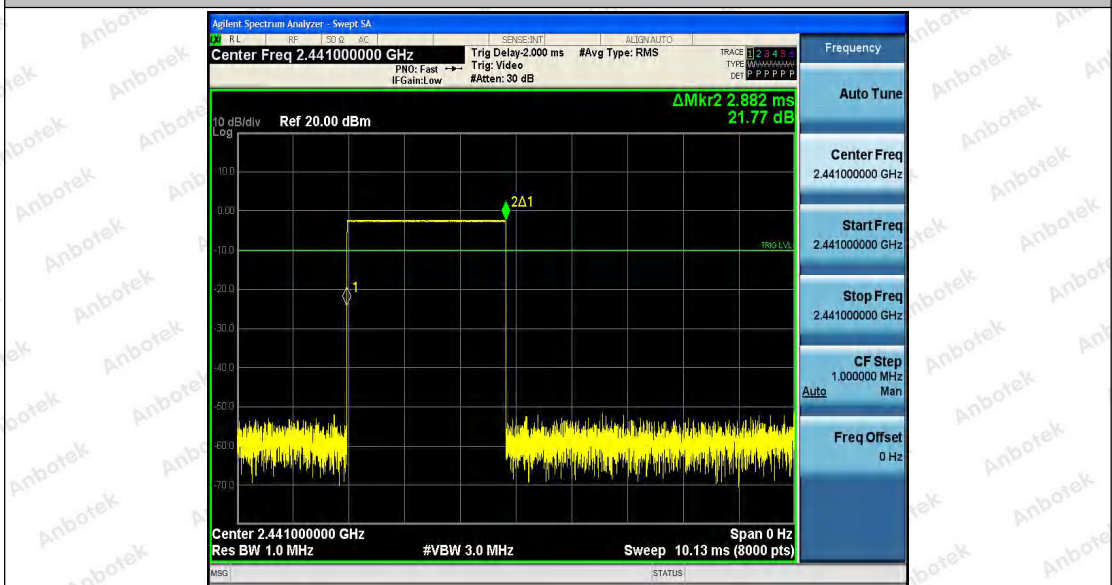
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	315	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	98	0.283	≤0.4	PASS
3DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	99	0.286	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

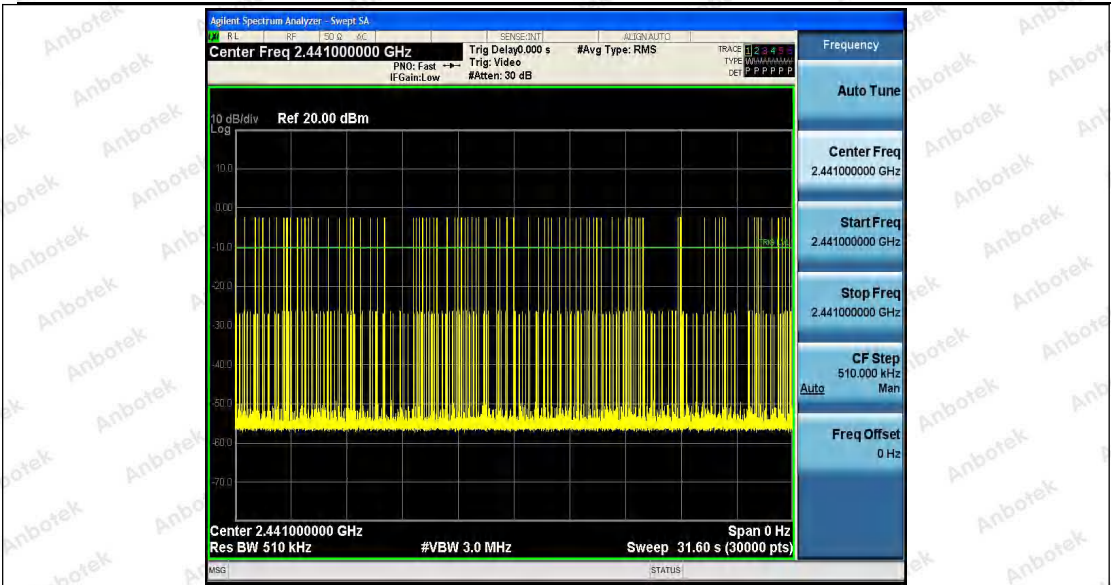


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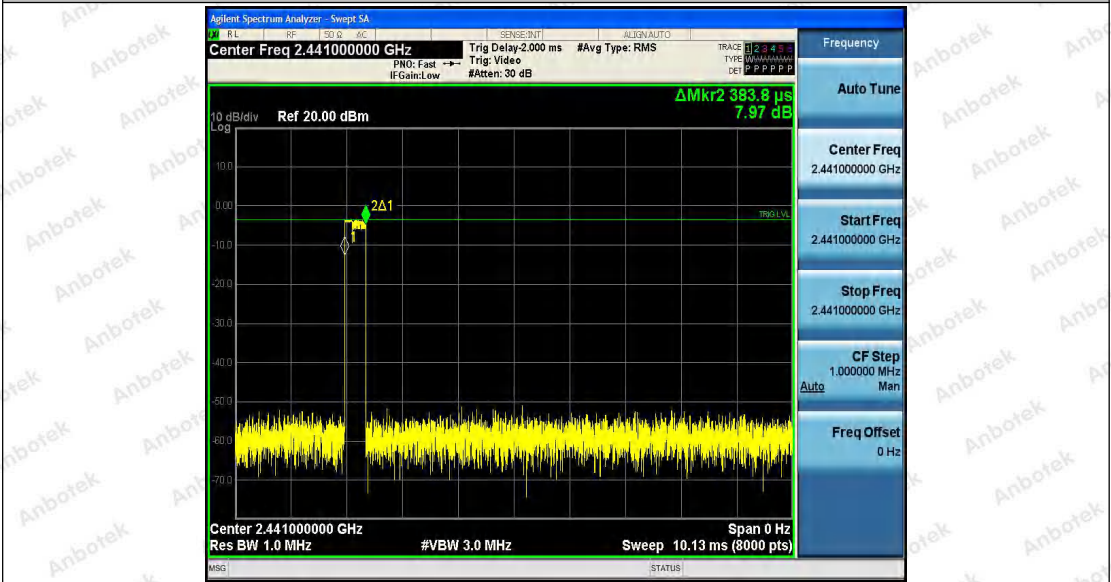
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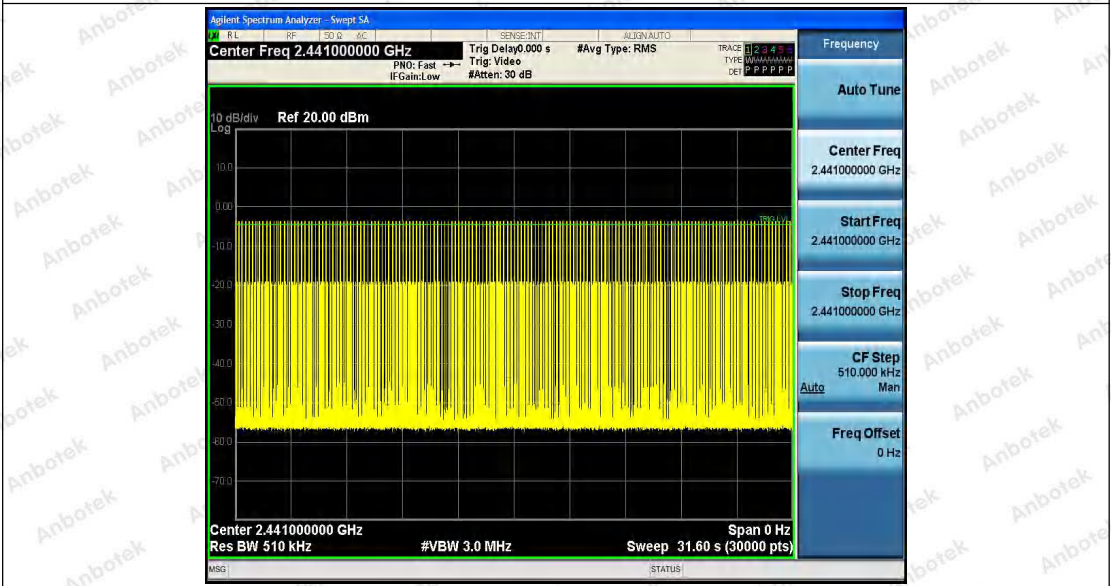
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2DH1_Ant1_Hop



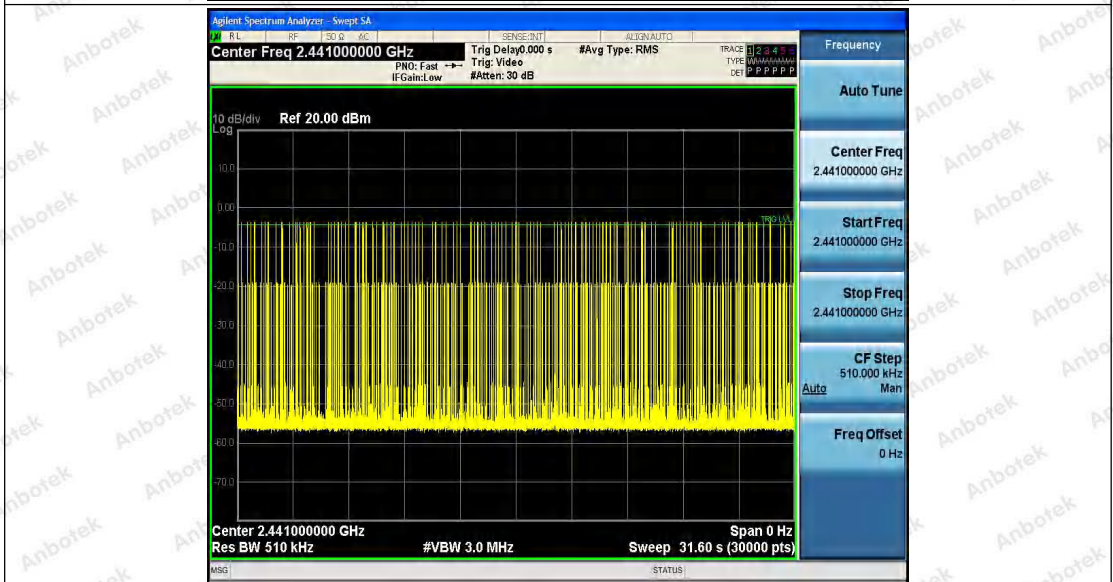
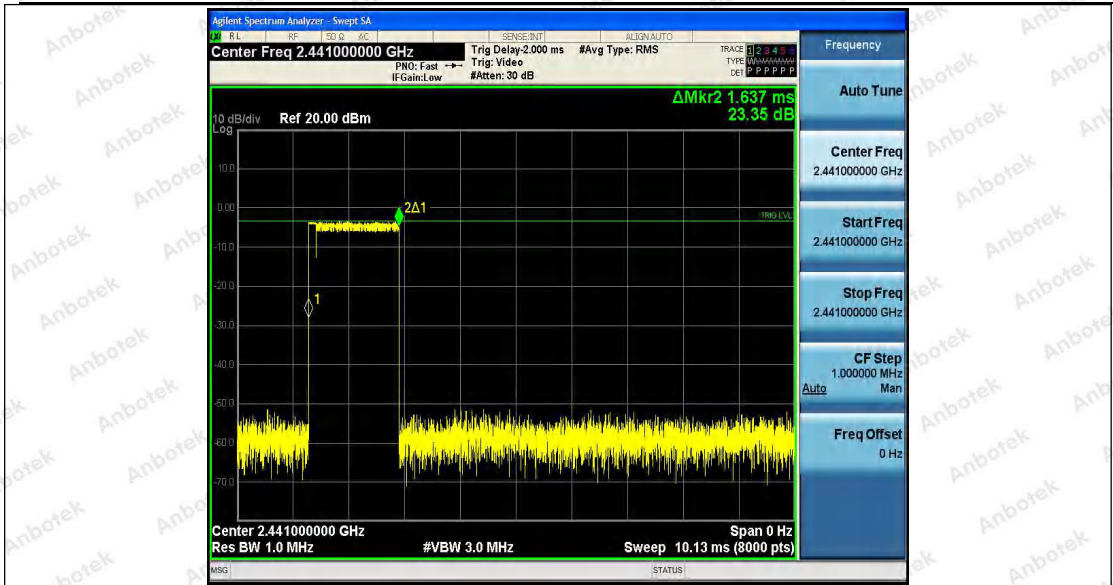
2DH3_Ant1_Hop



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2DH5_Ant1_Hop

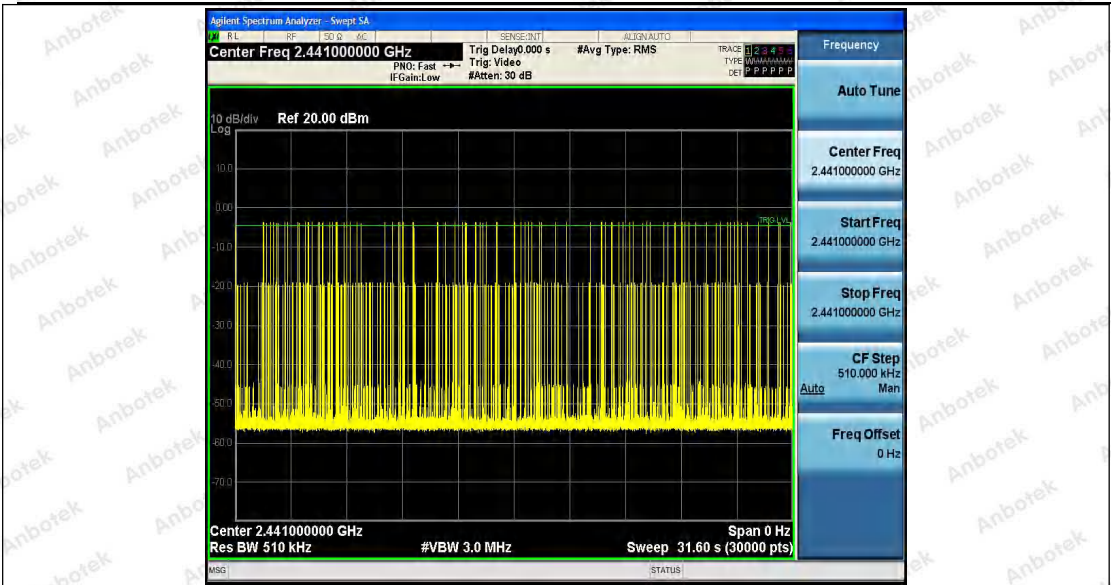


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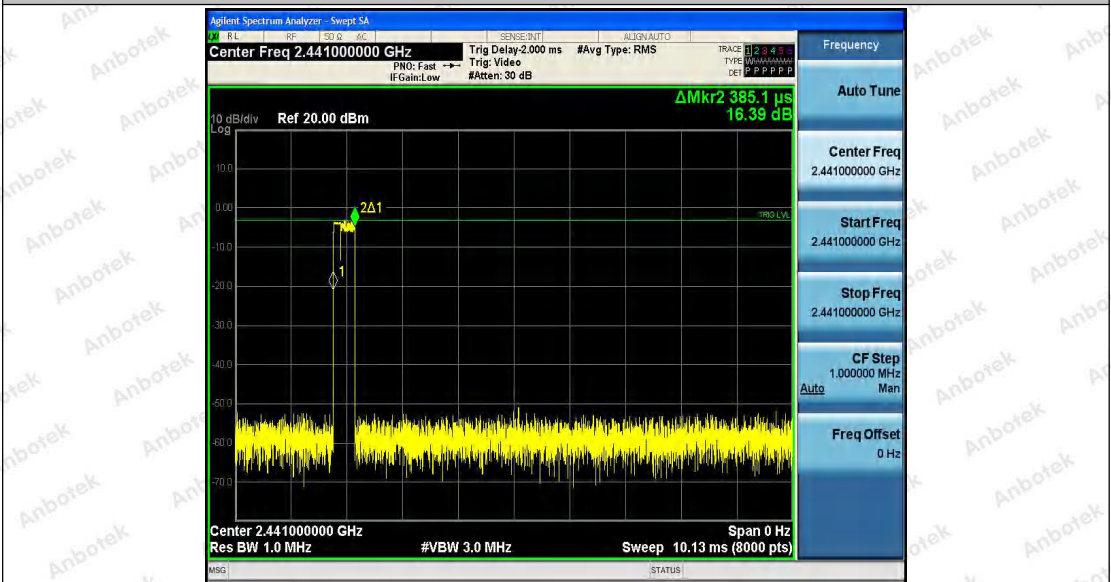
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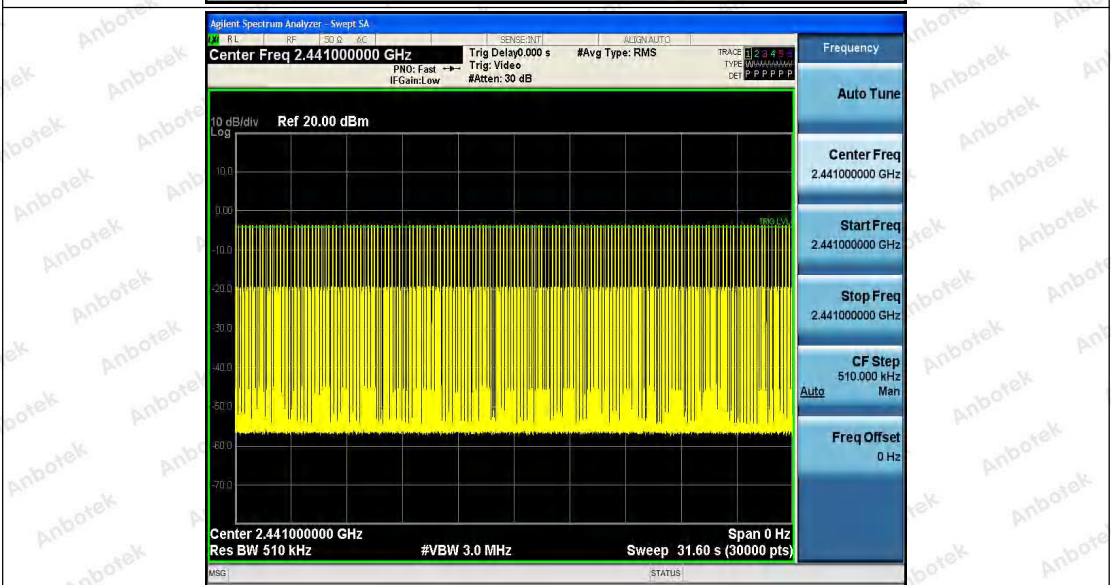
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

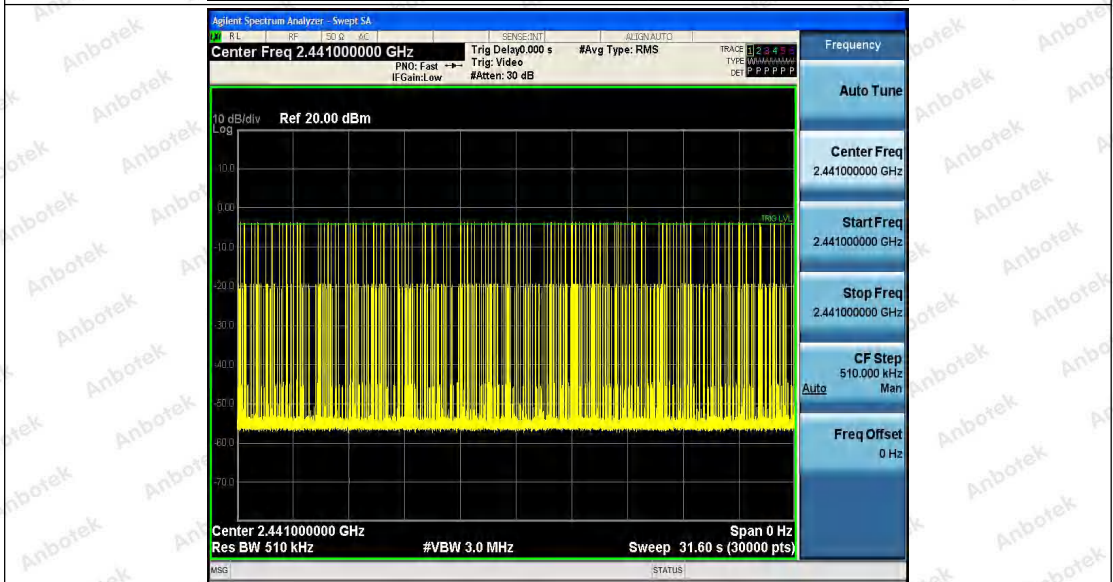
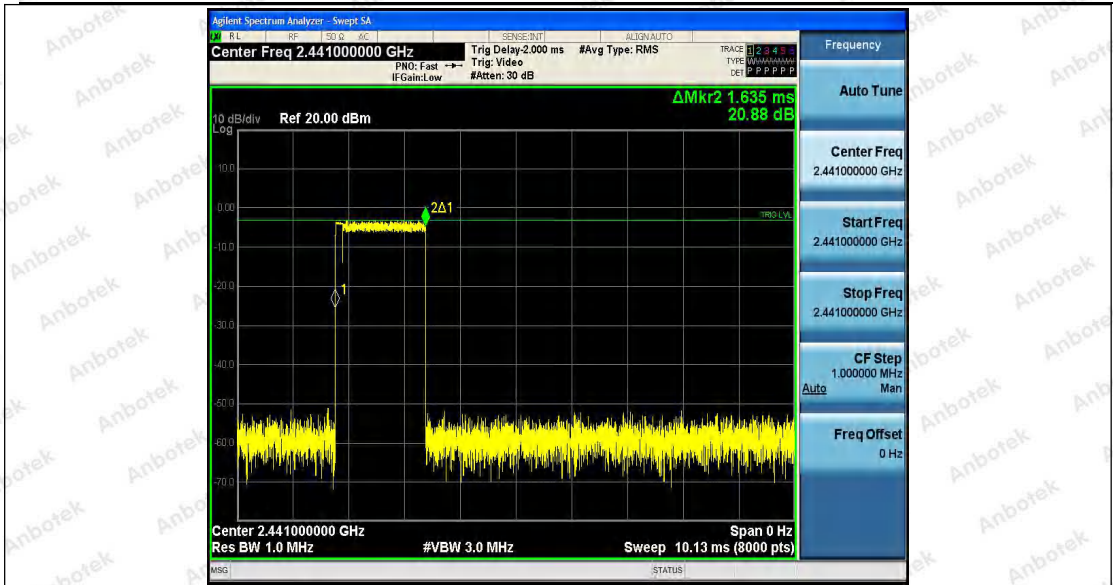


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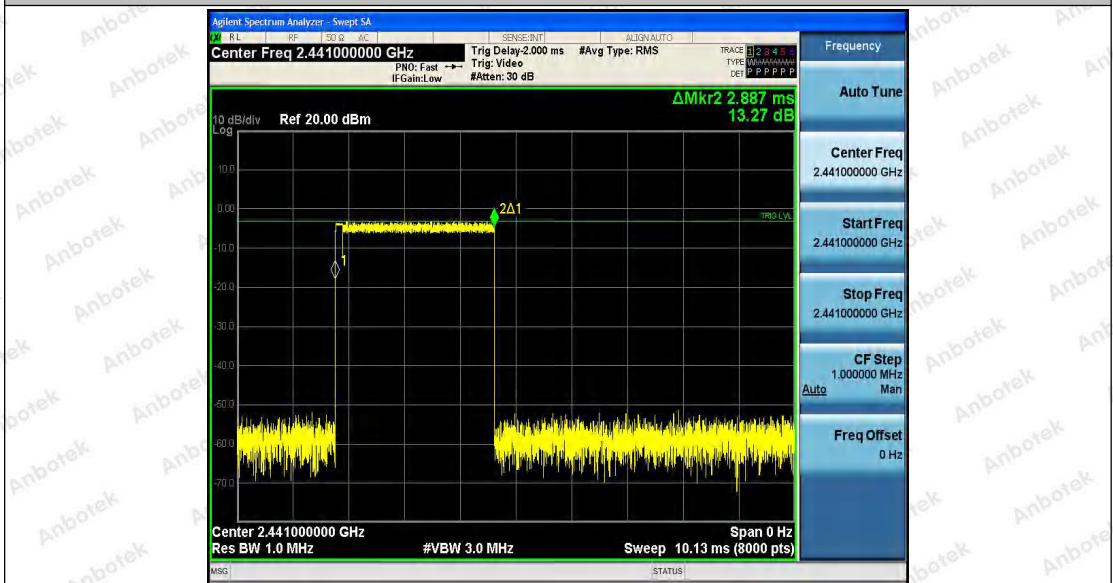
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3DH5_Ant1_Hop

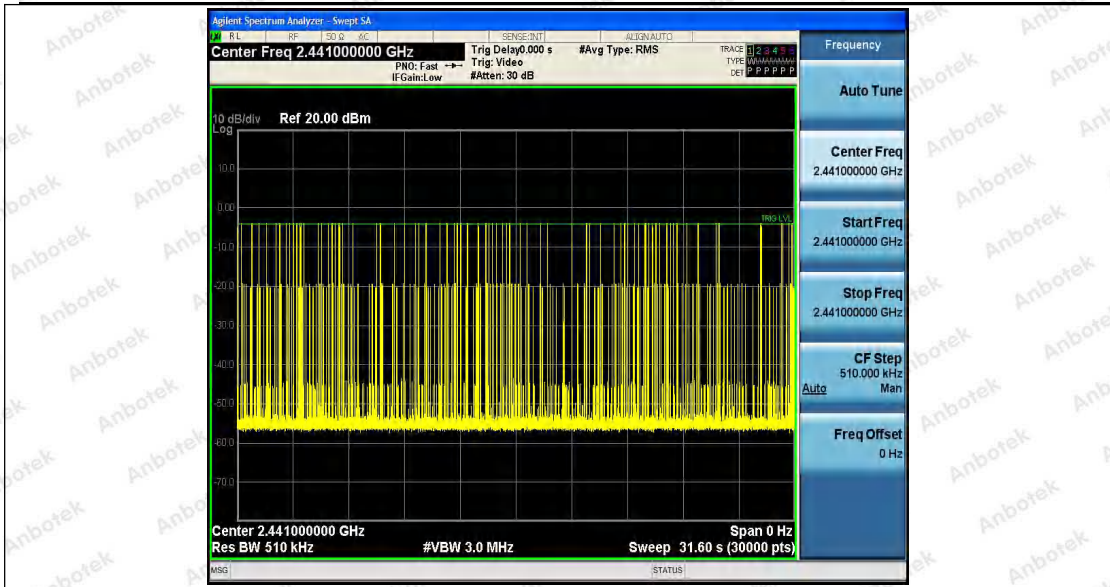


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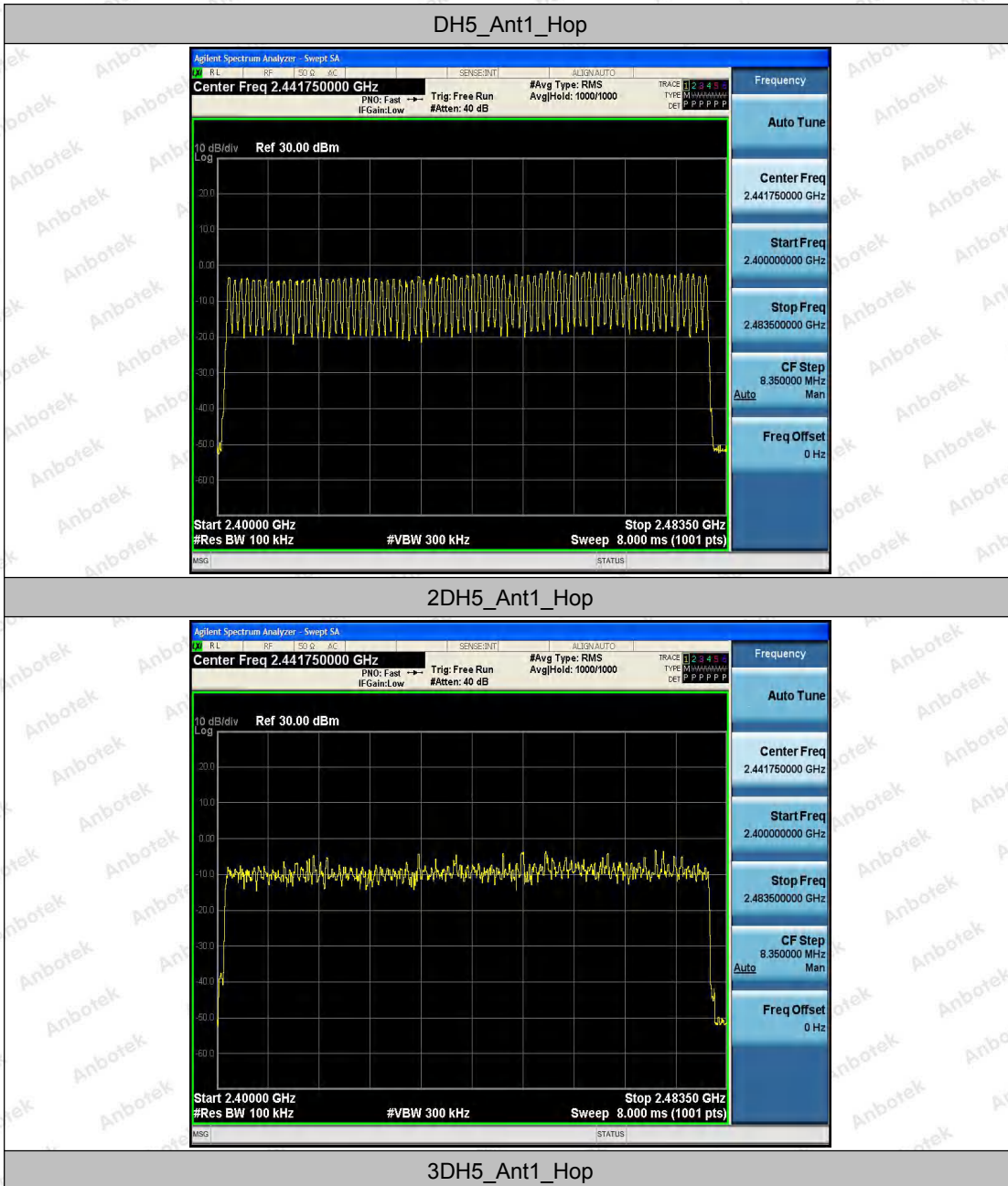
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Appendix F: Number of hopping channels

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

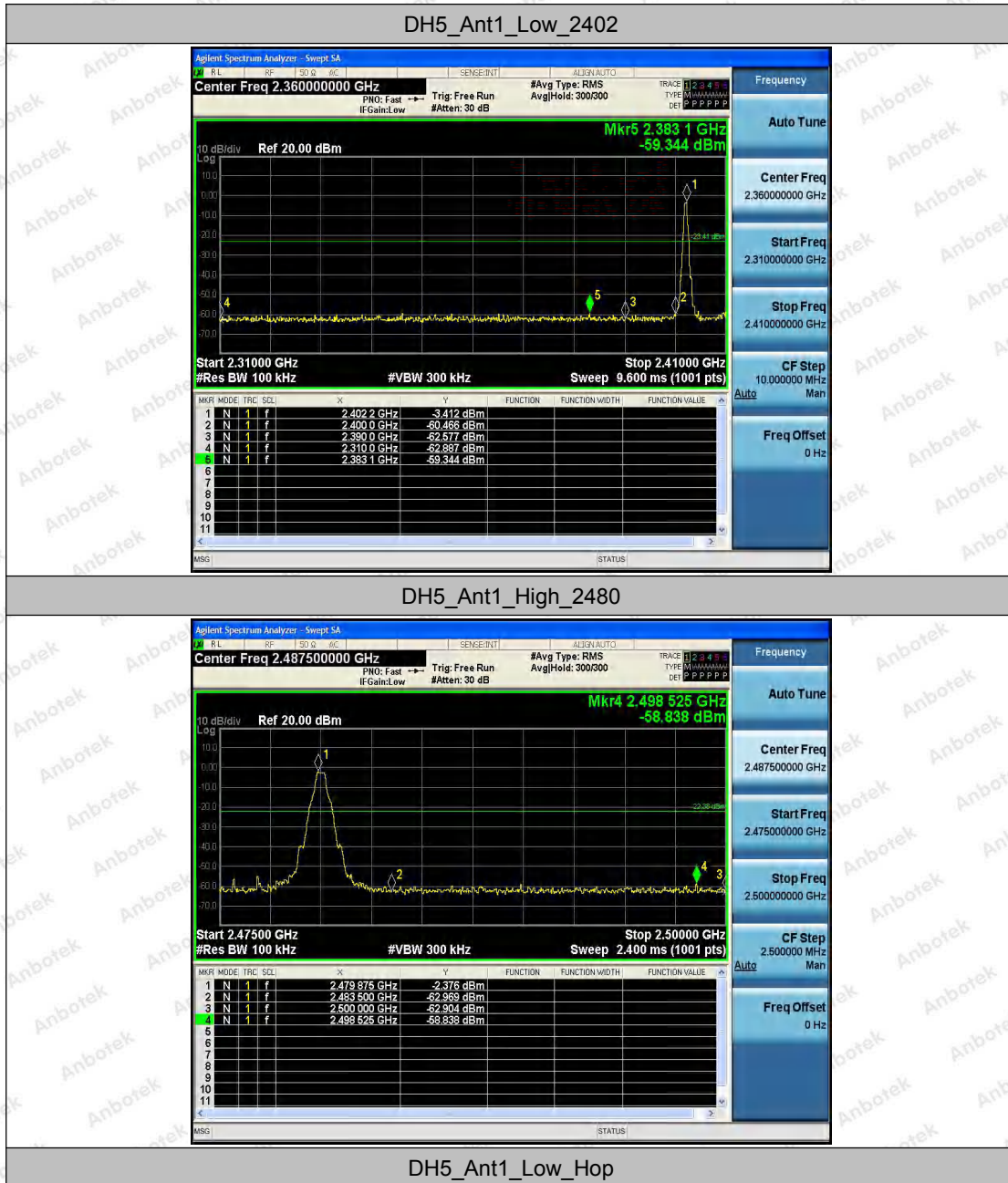


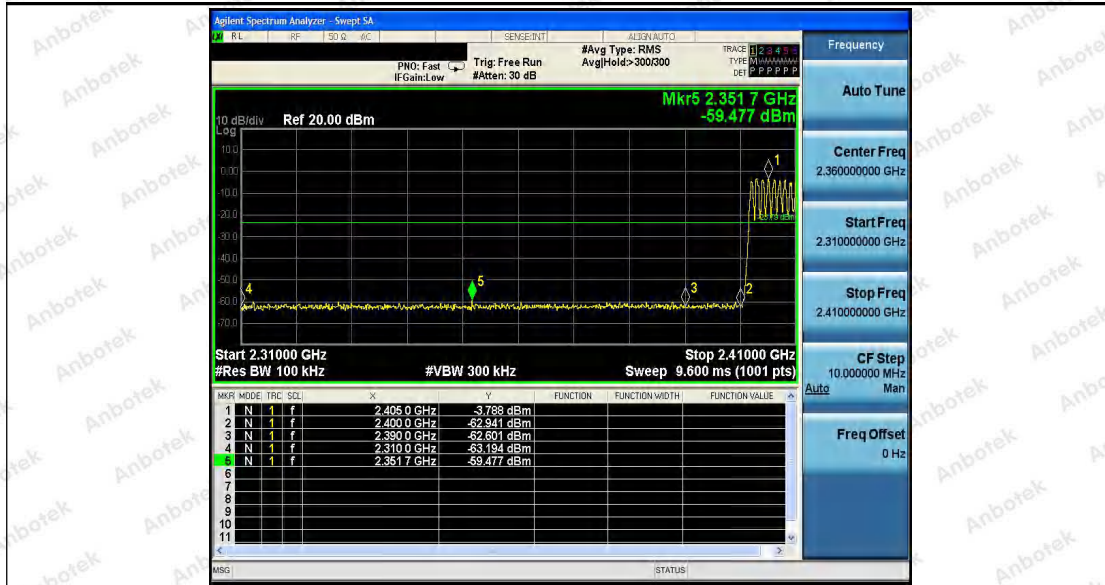
Appendix G: Band edge measurements

Test Result

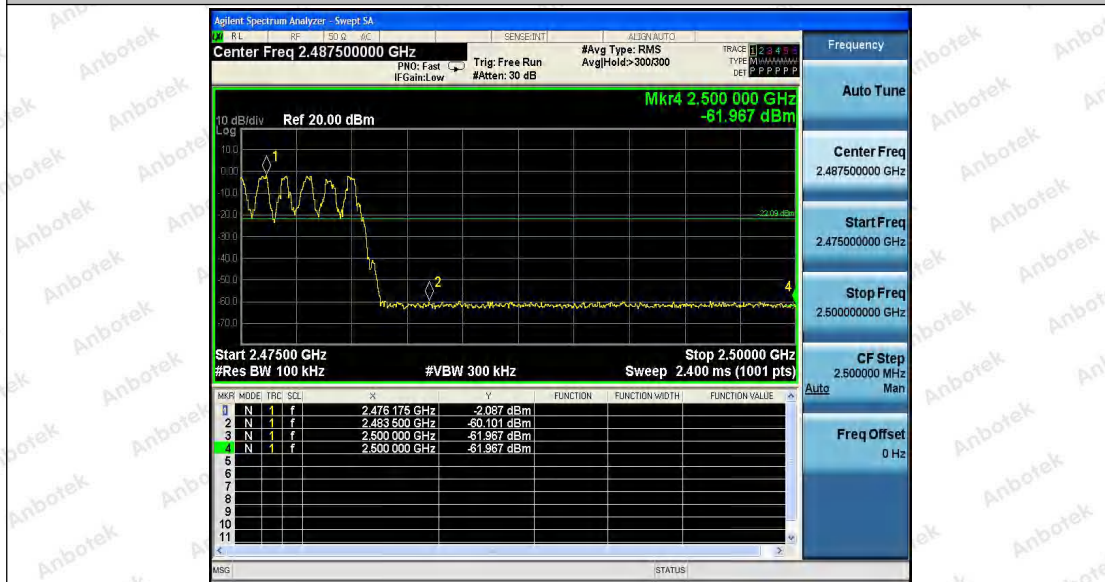
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.41	-59.34	≤-23.41	PASS
		High	2480	-2.38	-58.84	≤-22.38	PASS
		Low	Hop	-3.79	-59.48	≤-23.79	PASS
		High	Hop	-2.09	-61.97	≤-22.09	PASS
2DH5	Ant1	Low	2402	-4.66	-58.64	≤-24.66	PASS
		High	2480	-3.72	-59.21	≤-23.72	PASS
		Low	Hop	-5.14	-59.28	≤-25.14	PASS
		High	Hop	-5.91	-61.42	≤-25.91	PASS
3DH5	Ant1	Low	2402	-4.28	-58.17	≤-24.28	PASS
		High	2480	-4.00	-59.77	≤-24	PASS
		Low	Hop	-5.68	-59.68	≤-25.68	PASS
		High	Hop	-6.90	-62.24	≤-26.9	PASS

Test Graphs

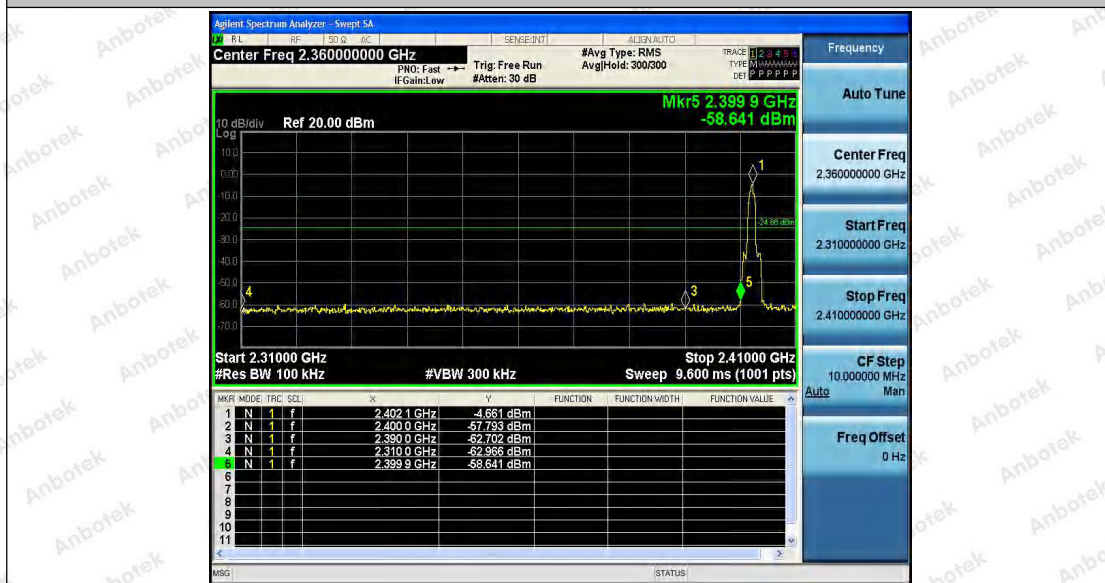

DH5_Ant1_High_2480
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

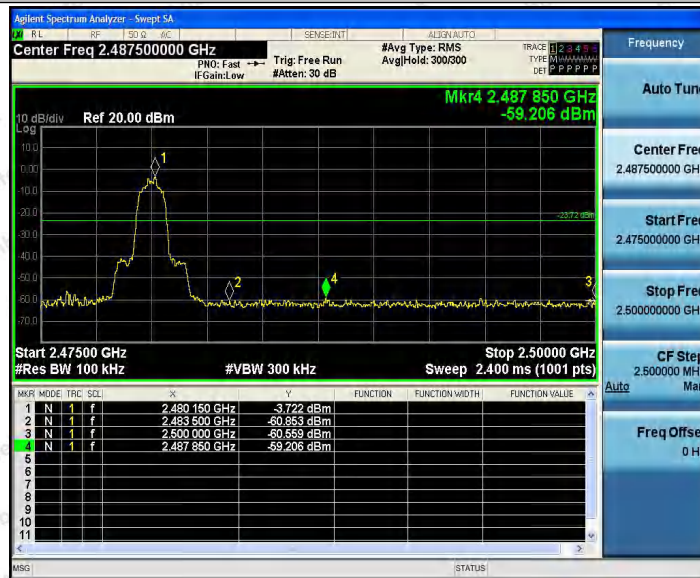


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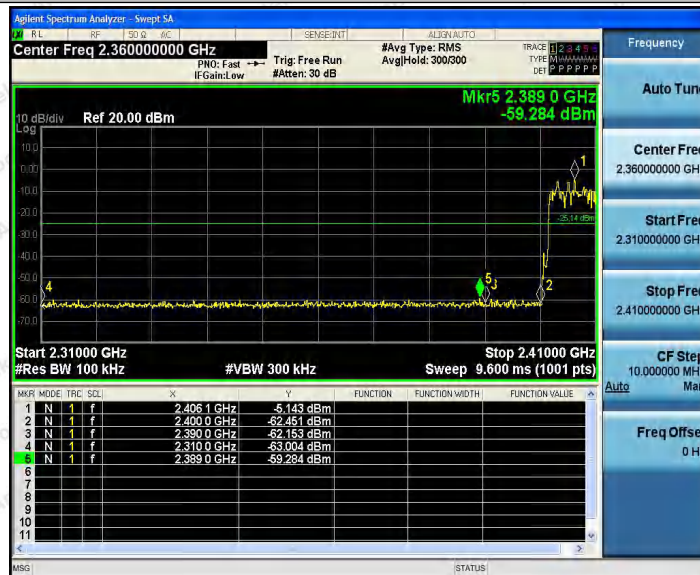
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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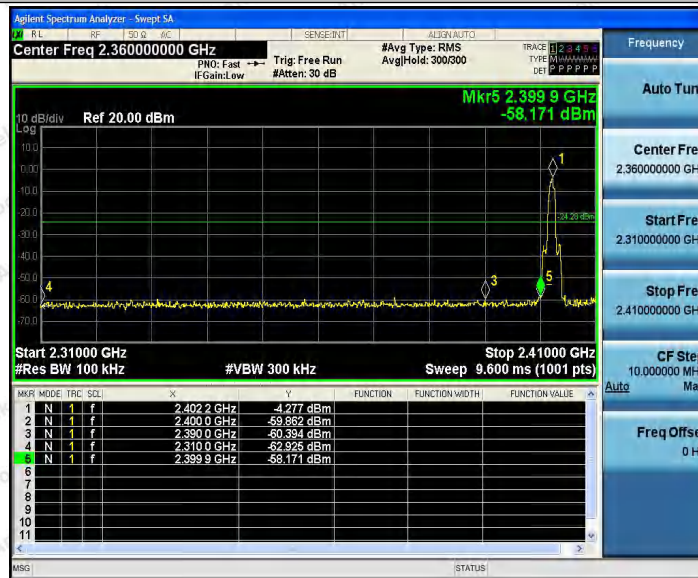
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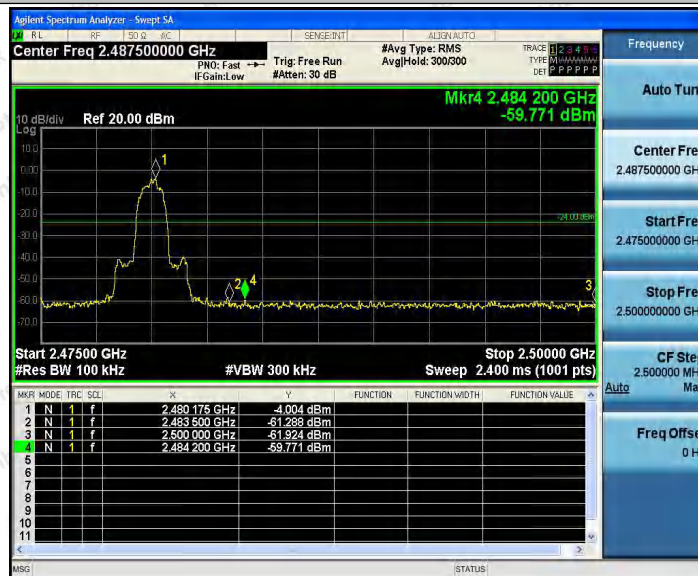
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

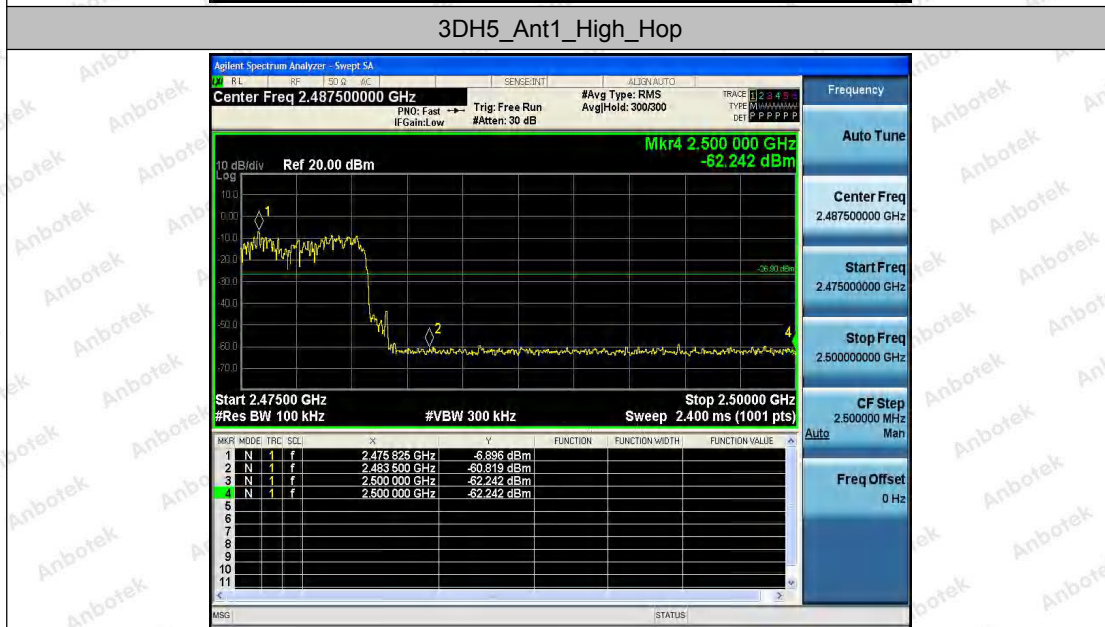
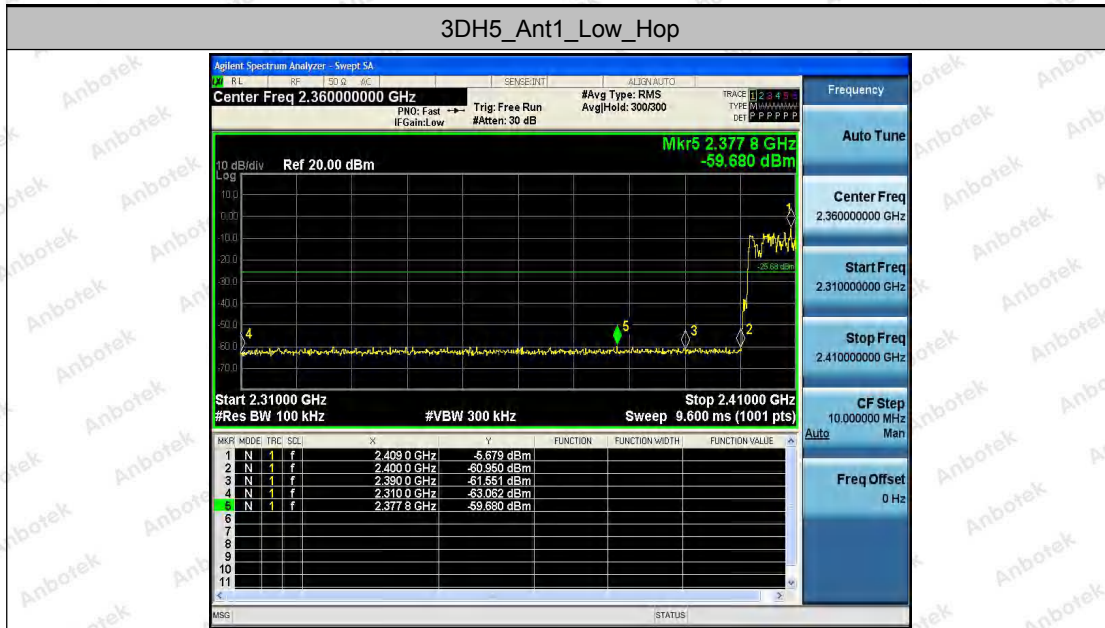


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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.16	-3.16	---	PASS
			30~1000	-3.16	-66.71	≤-23.16	PASS
			1000~26500	-3.16	-42.69	≤-23.16	PASS
		2441	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-62.04	≤-22.67	PASS
			1000~26500	-2.67	-44.06	≤-22.67	PASS
		2480	Reference	-2.20	-2.20	---	PASS
			30~1000	-2.20	-70.1	≤-22.2	PASS
			1000~26500	-2.20	-50.88	≤-22.2	PASS
2DH5	Ant1	2402	Reference	-5.01	-5.01	---	PASS
			30~1000	-5.01	-69.09	≤-25.01	PASS
			1000~26500	-5.01	-47.64	≤-25.01	PASS
		2441	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-69.8	≤-24.43	PASS
			1000~26500	-4.43	-48.72	≤-24.43	PASS
		2480	Reference	-4.26	-4.26	---	PASS
			30~1000	-4.26	-69.85	≤-24.26	PASS
			1000~26500	-4.26	-53.45	≤-24.26	PASS
3DH5	Ant1	2402	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-70.02	≤-24.45	PASS
			1000~26500	-4.45	-42.9	≤-24.45	PASS
		2441	Reference	-4.18	-4.18	---	PASS
			30~1000	-4.18	-70.49	≤-24.18	PASS
			1000~26500	-4.18	-48.87	≤-24.18	PASS
		2480	Reference	-3.77	-3.77	---	PASS
			30~1000	-3.77	-70.43	≤-23.77	PASS
			1000~26500	-3.77	-52.88	≤-23.77	PASS

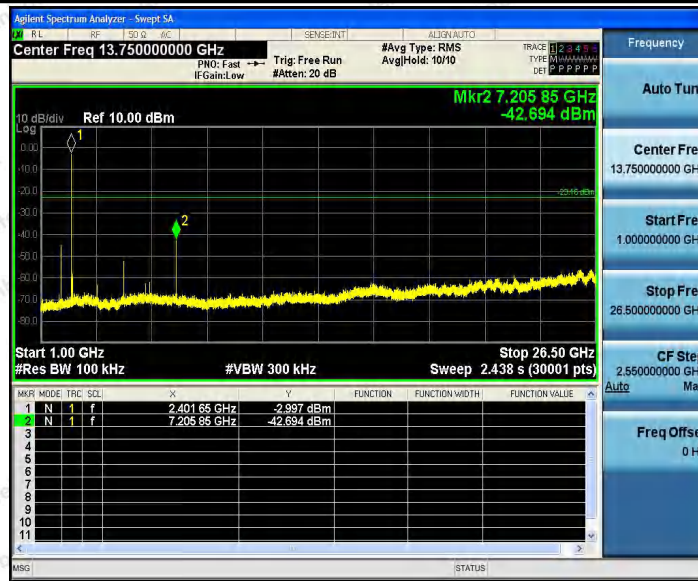
Test Graphs



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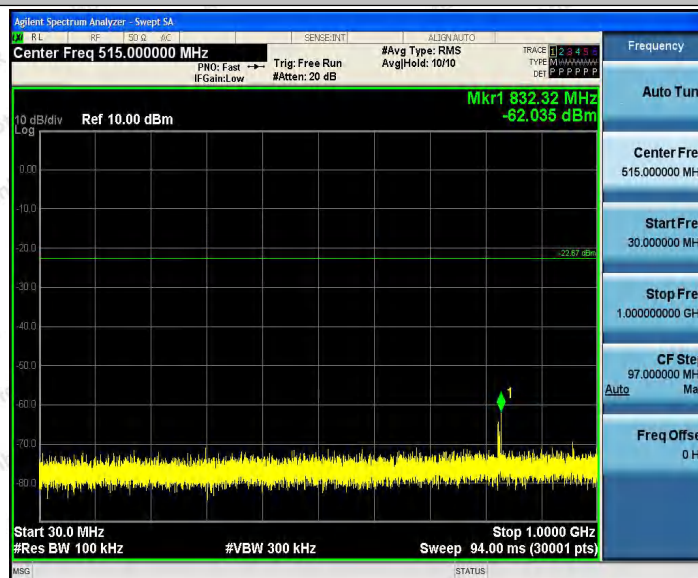
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

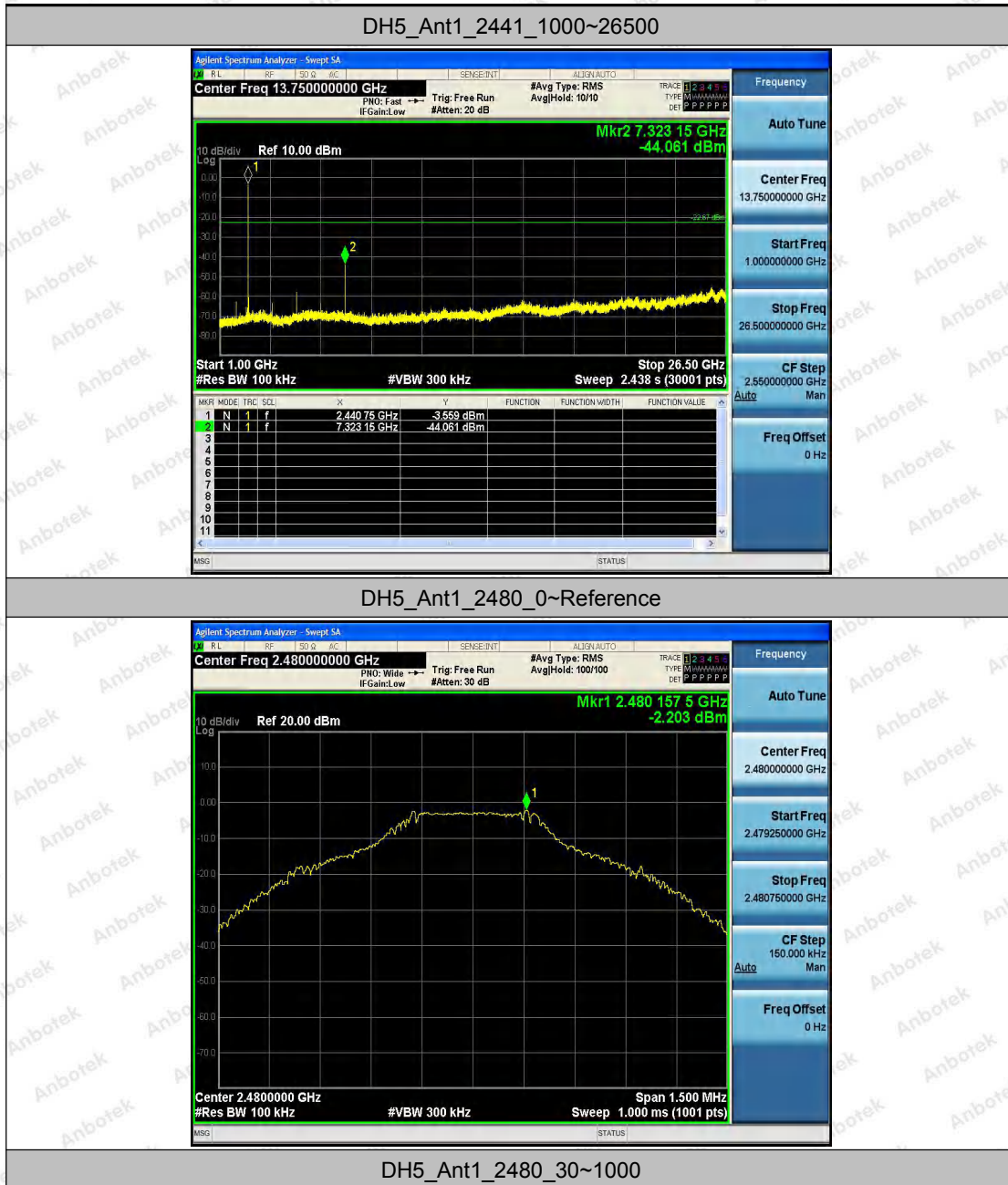


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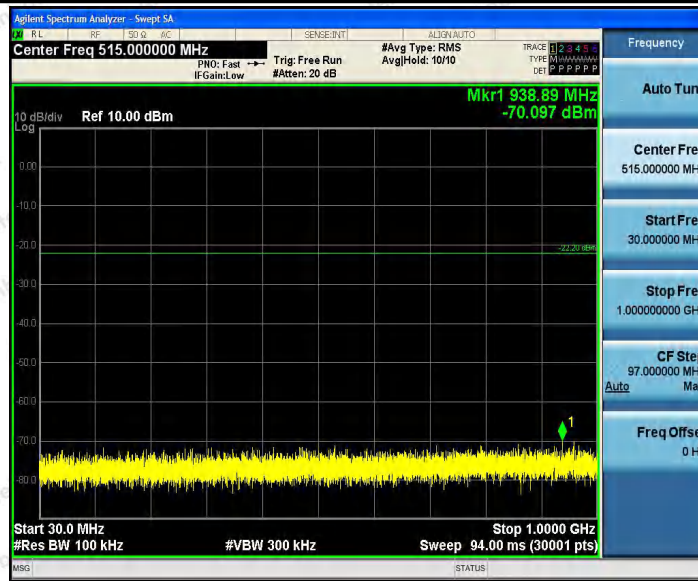


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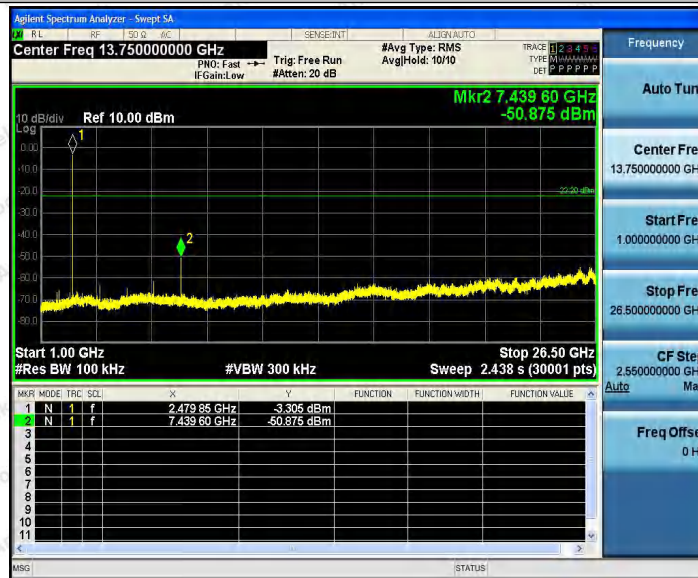
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

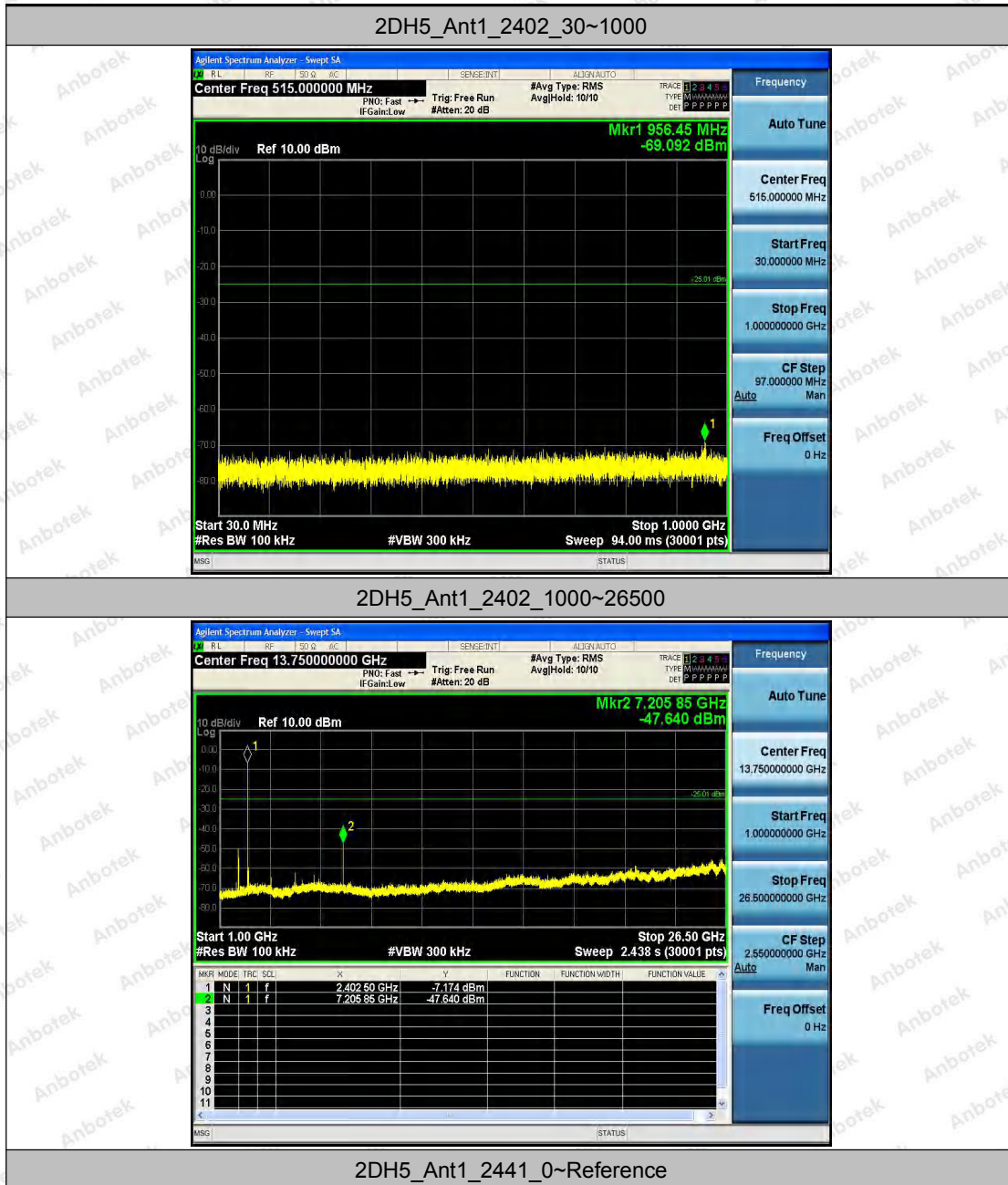


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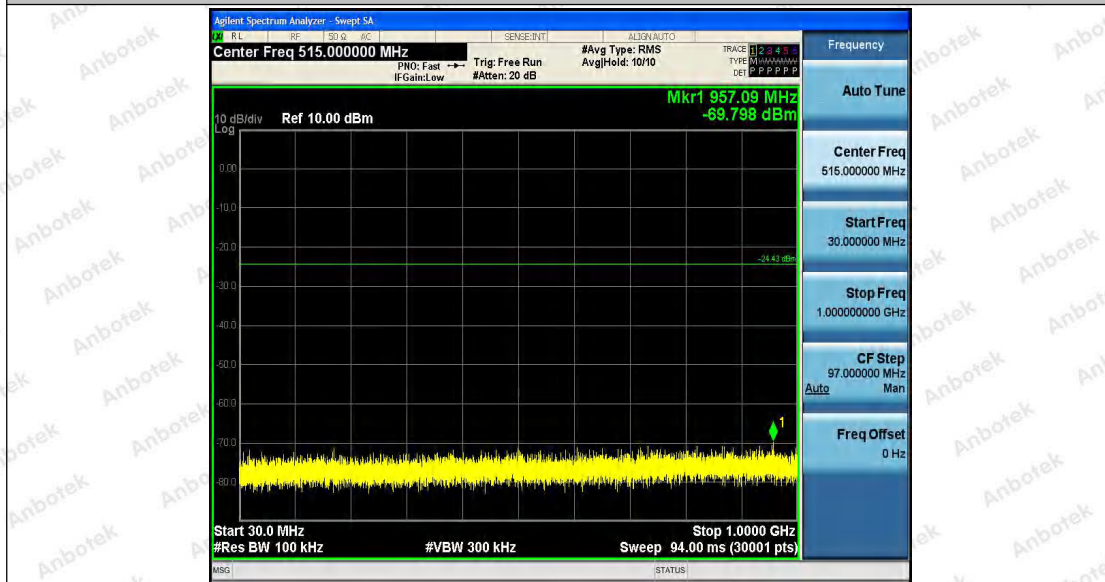
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

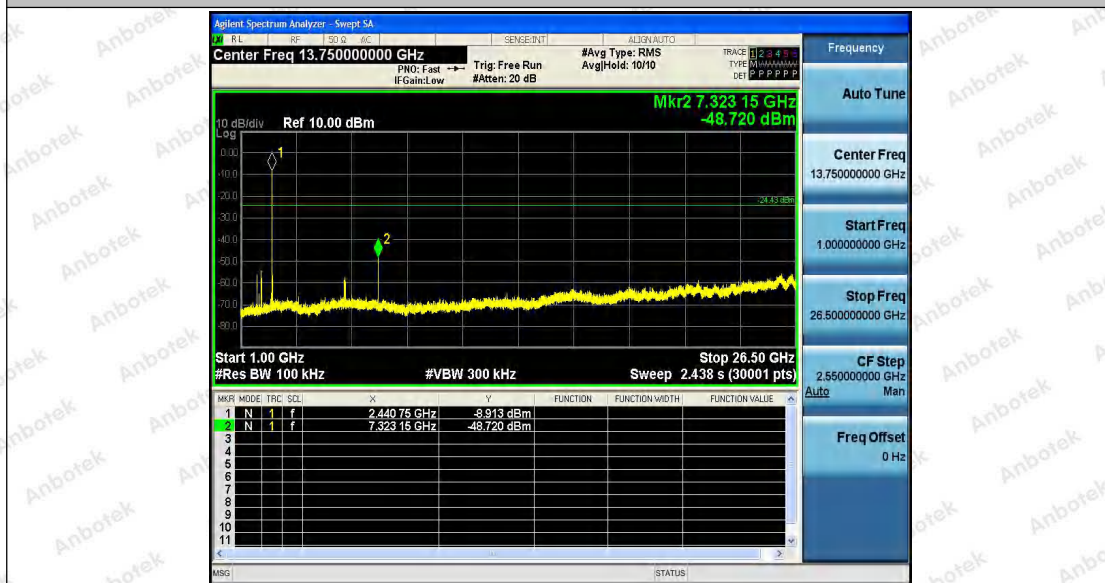
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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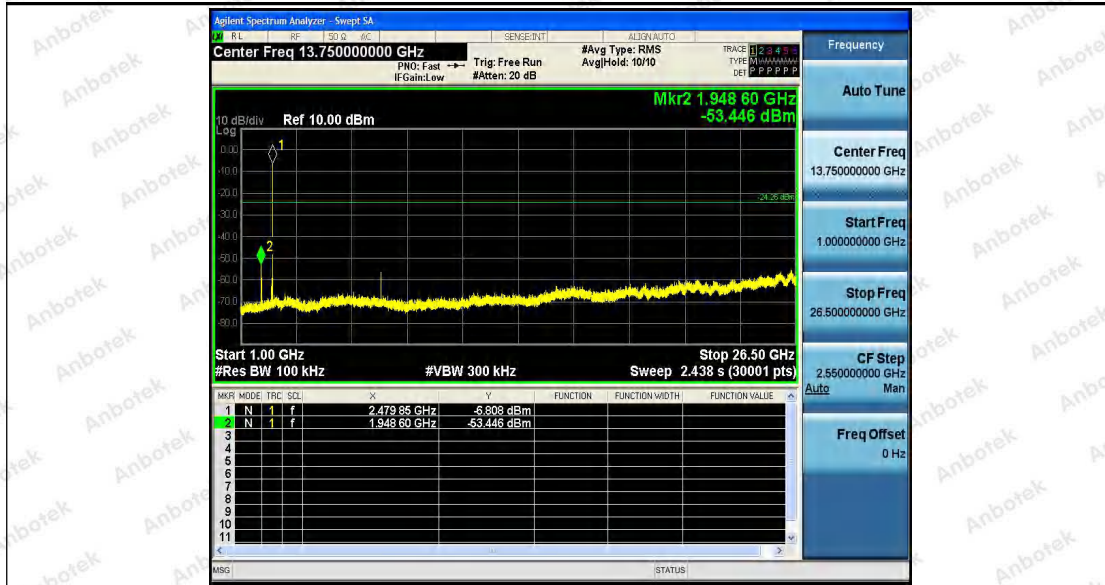


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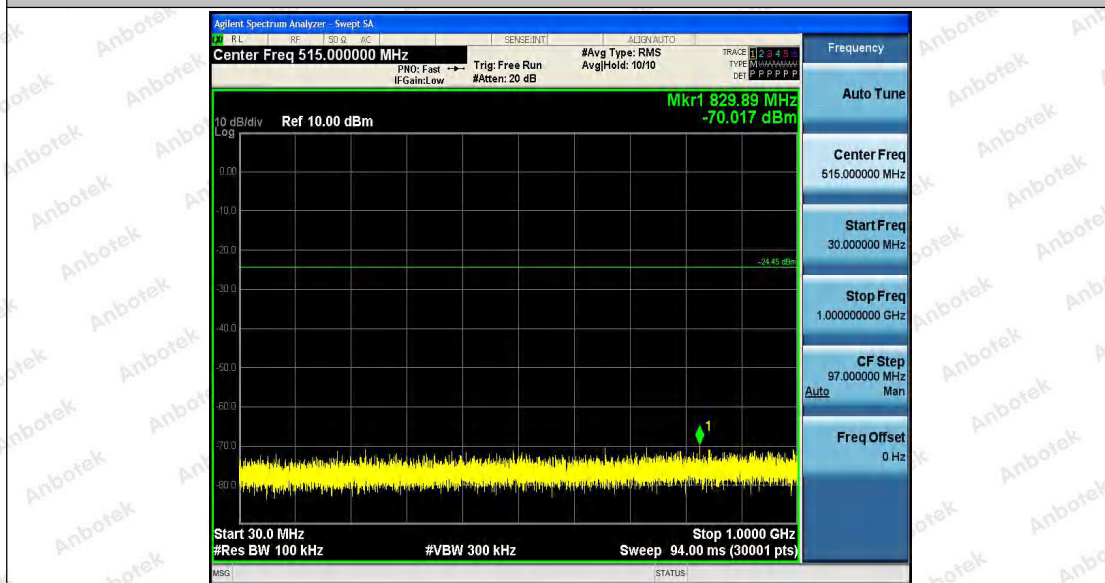
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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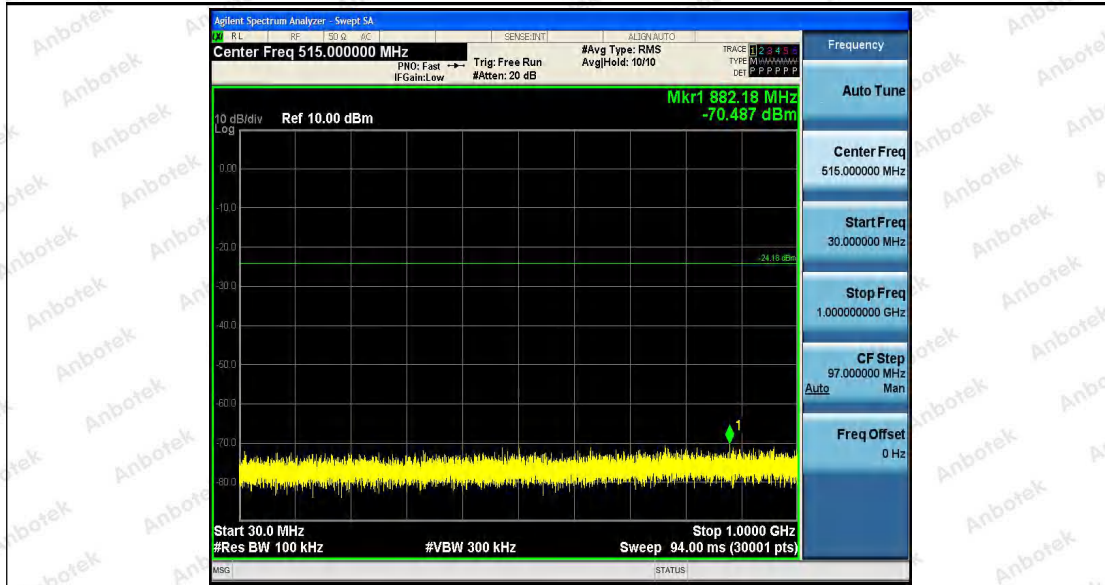


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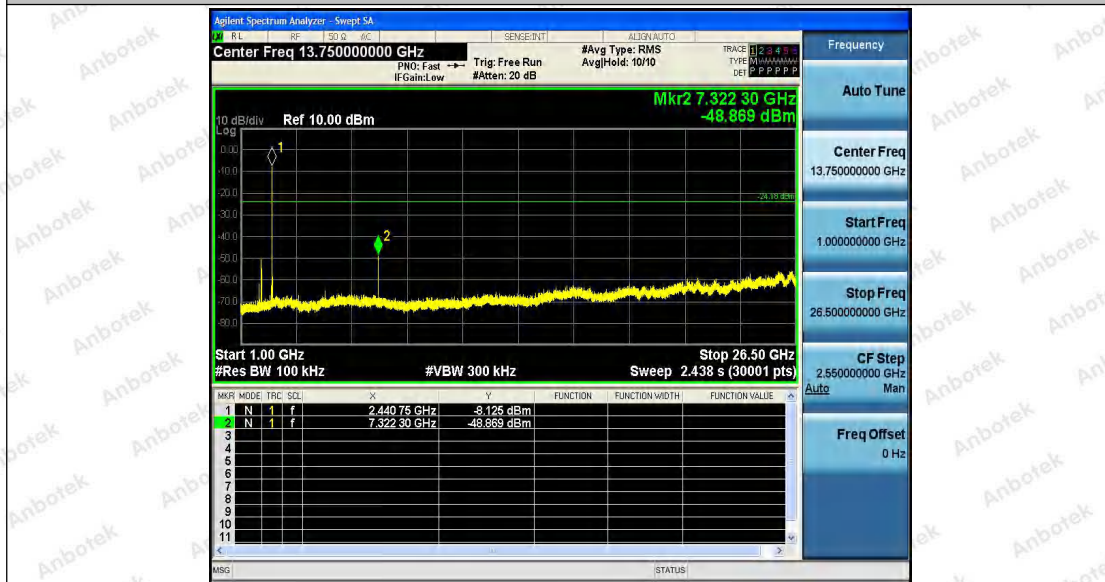
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

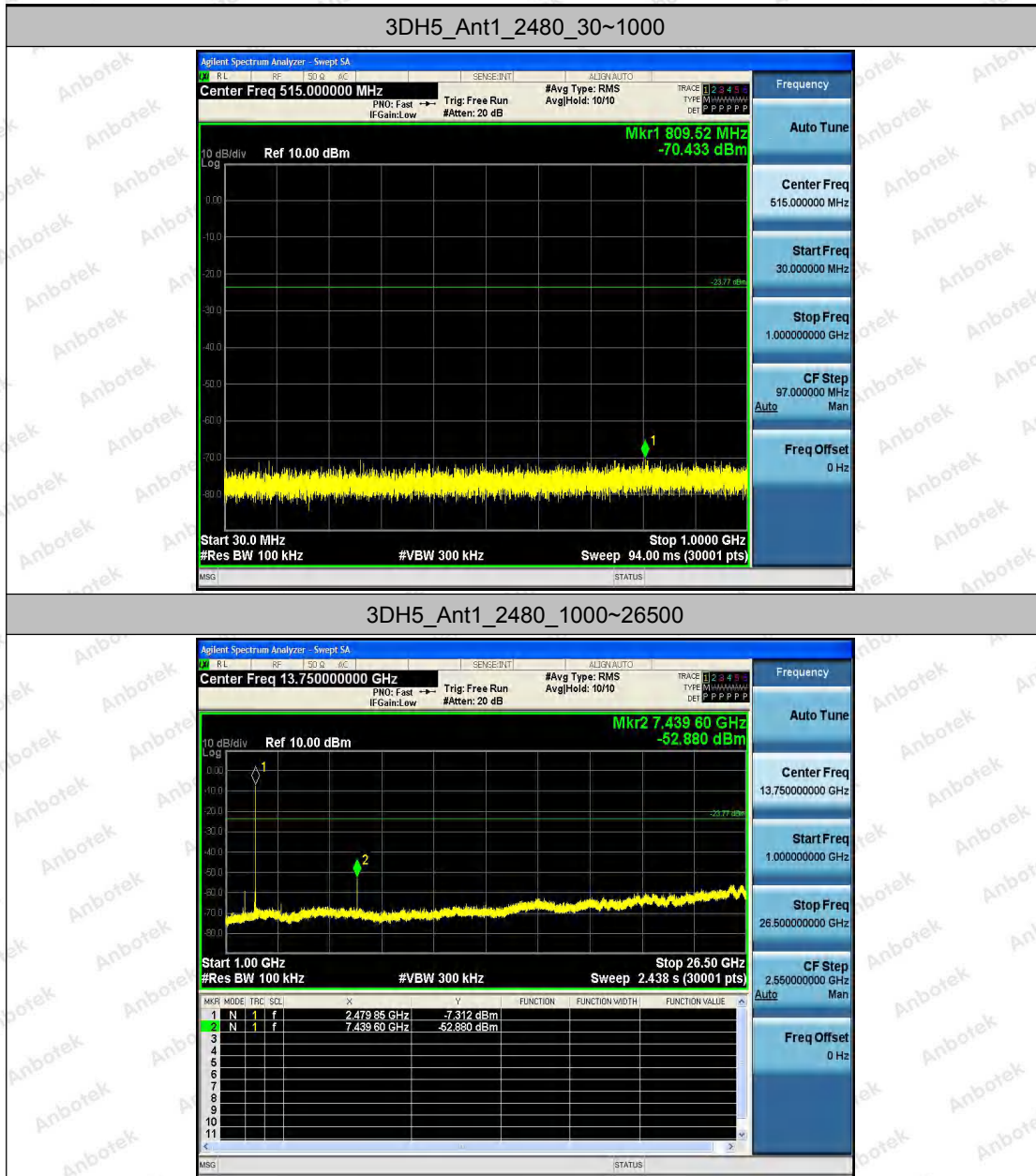


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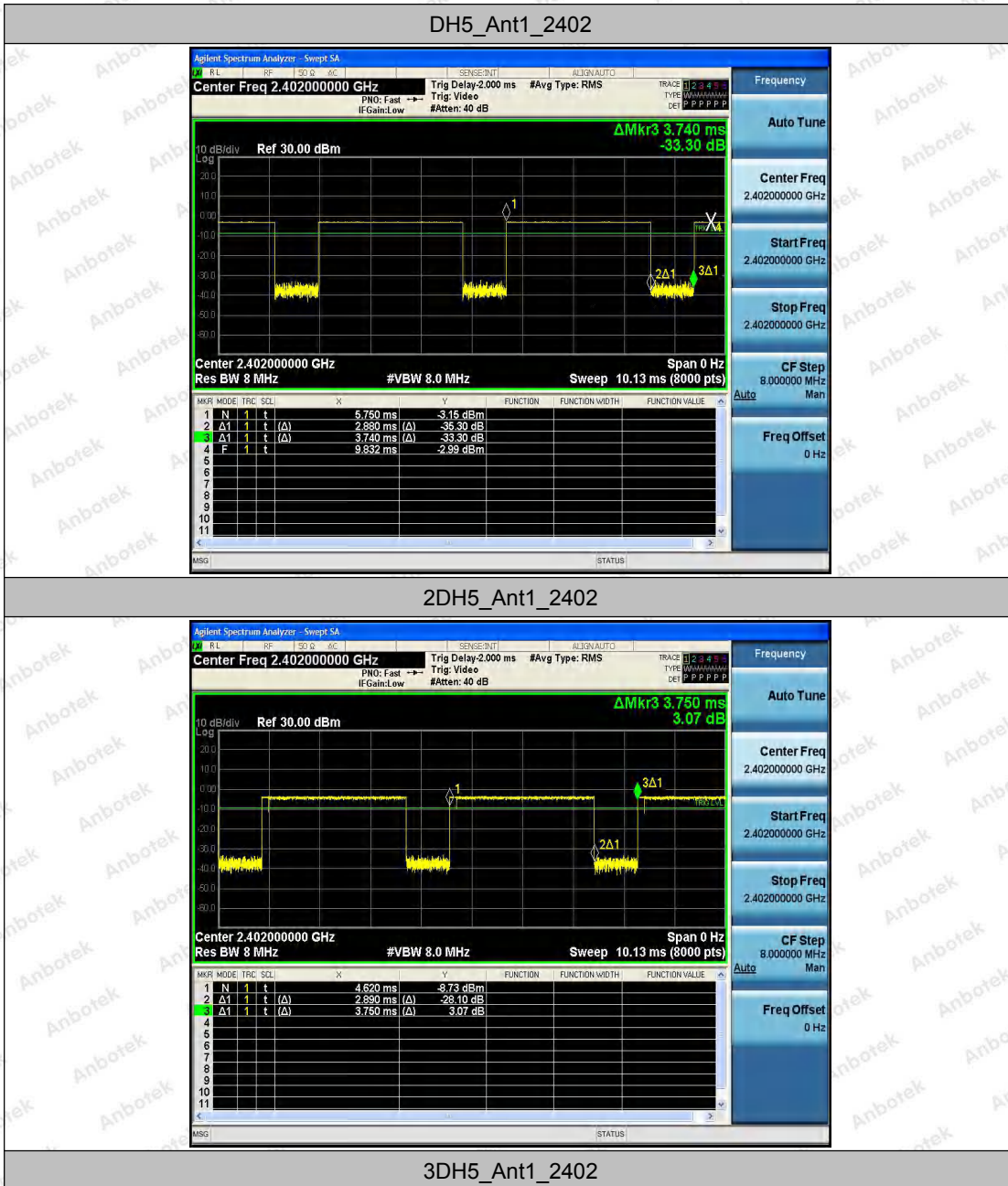
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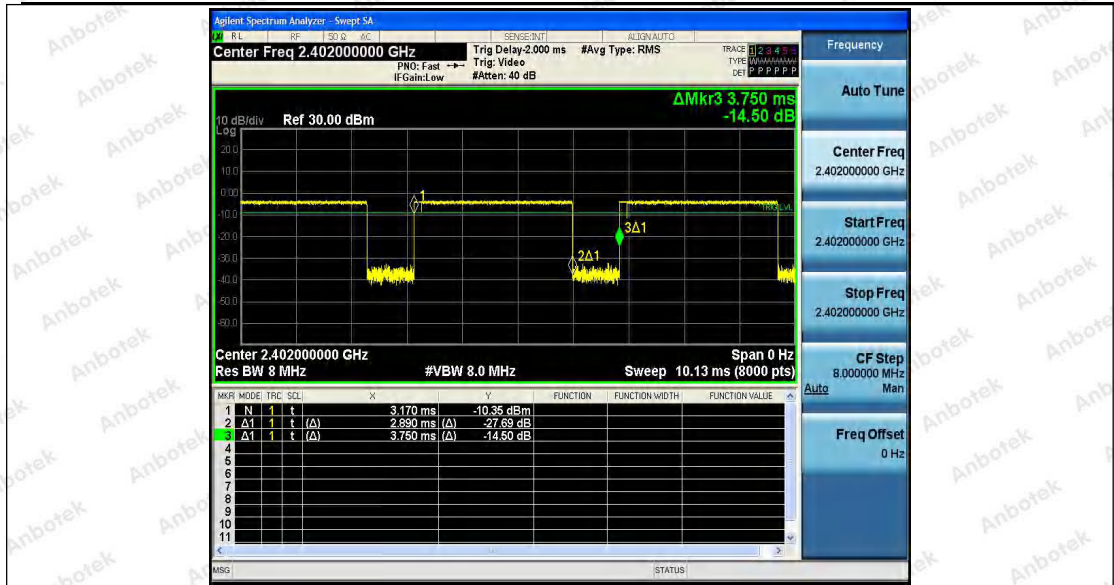
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---