

Appendix Test Data

Report No.:	18220WC30025801	Test Sample No.:	1-2-2
Start Test Date:	2023.03.20	Finish Test Date:	2023.03.20
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	26.7C°	Relative Humidity:	43%
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.960	2401.517	2402.477
		2441	0.945	2440.520	2441.465
		2480	0.951	2479.520	2480.471
2DH5	Ant1	2402	1.287	2401.349	2402.636
		2441	1.290	2440.346	2441.636
		2480	1.332	2479.313	2480.645



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441

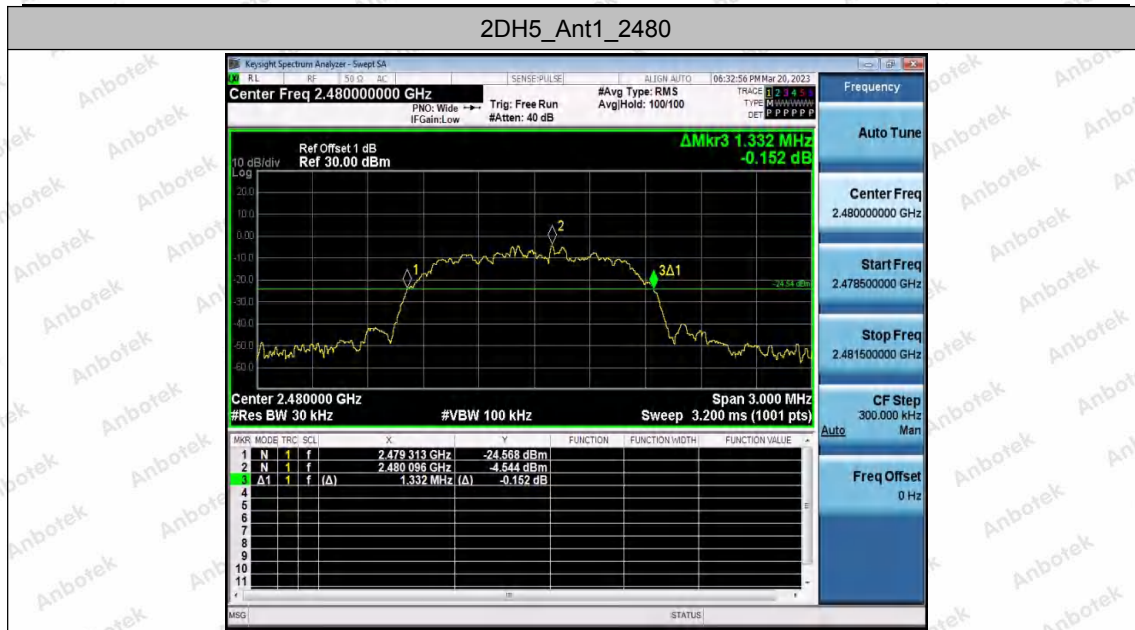


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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.83959	2401.5602	2402.3998
		2441	0.85936	2440.5522	2441.4115
		2480	0.86345	2479.5518	2480.4153
2DH5	Ant1	2402	1.1824	2401.3902	2402.5726
		2441	1.1828	2440.3901	2441.5729
		2480	1.1728	2479.3939	2480.5667



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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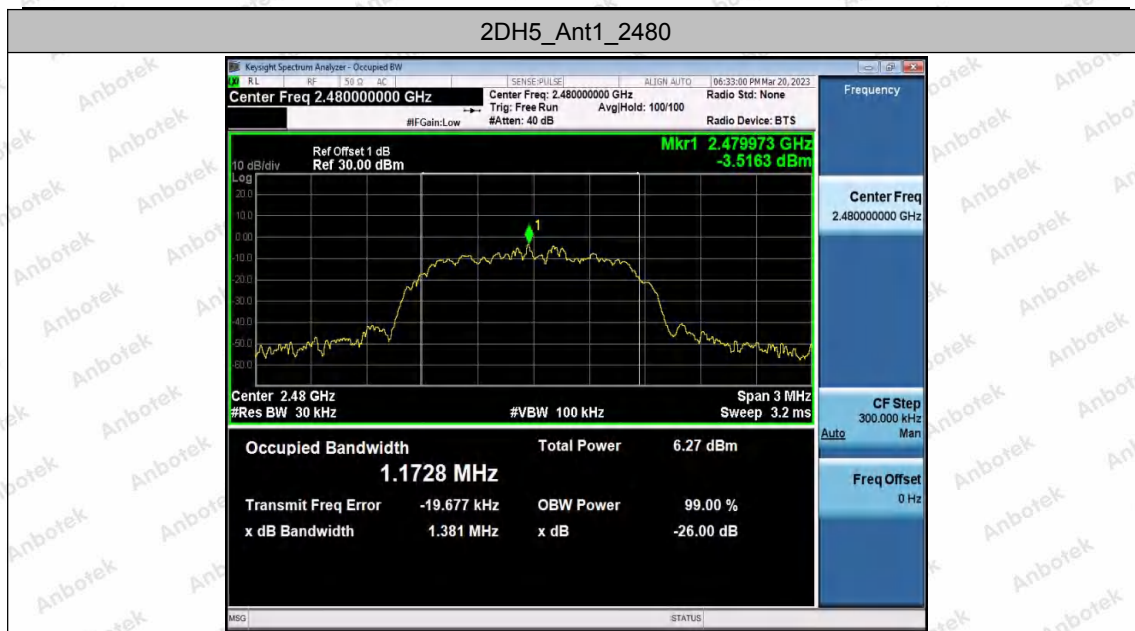


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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.07	≤20.97	PASS
		2441	0.56	≤20.97	PASS
		2480	-0.70	≤20.97	PASS
2DH5	Ant1	2402	3.25	≤20.97	PASS
		2441	2.78	≤20.97	PASS
		2480	1.46	≤20.97	PASS



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.974	≥0.960	PASS
2DH5	Ant1	Hop	0.996	≥0.888	PASS

Test Graphs



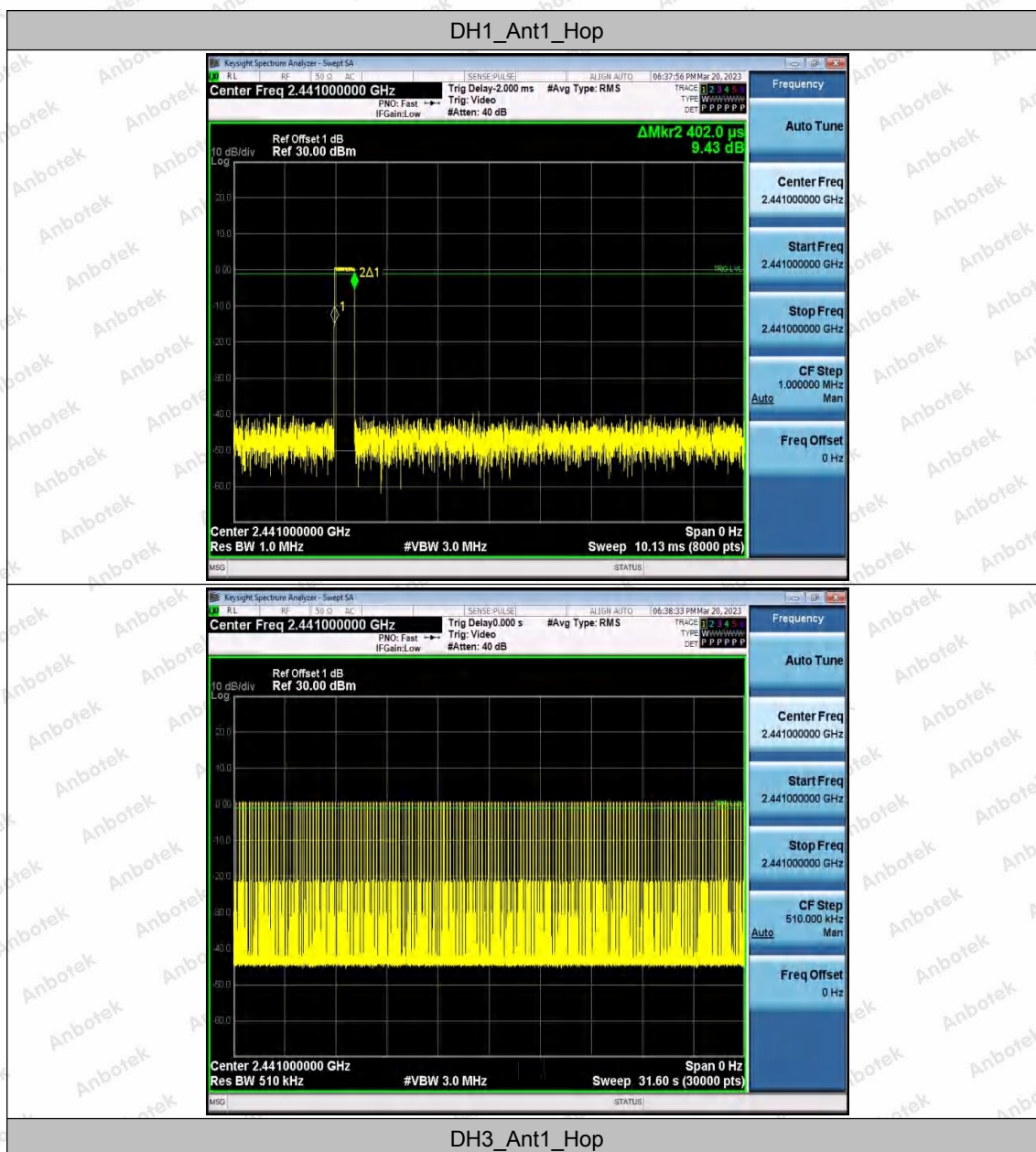
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.402	316	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.657	153	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.906	118	0.343	≤0.4	PASS
2DH1	Ant1	Hop	0.412	320	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.663	164	0.273	≤0.4	PASS
2DH5	Ant1	Hop	2.911	91	0.265	≤0.4	PASS



Test Graphs



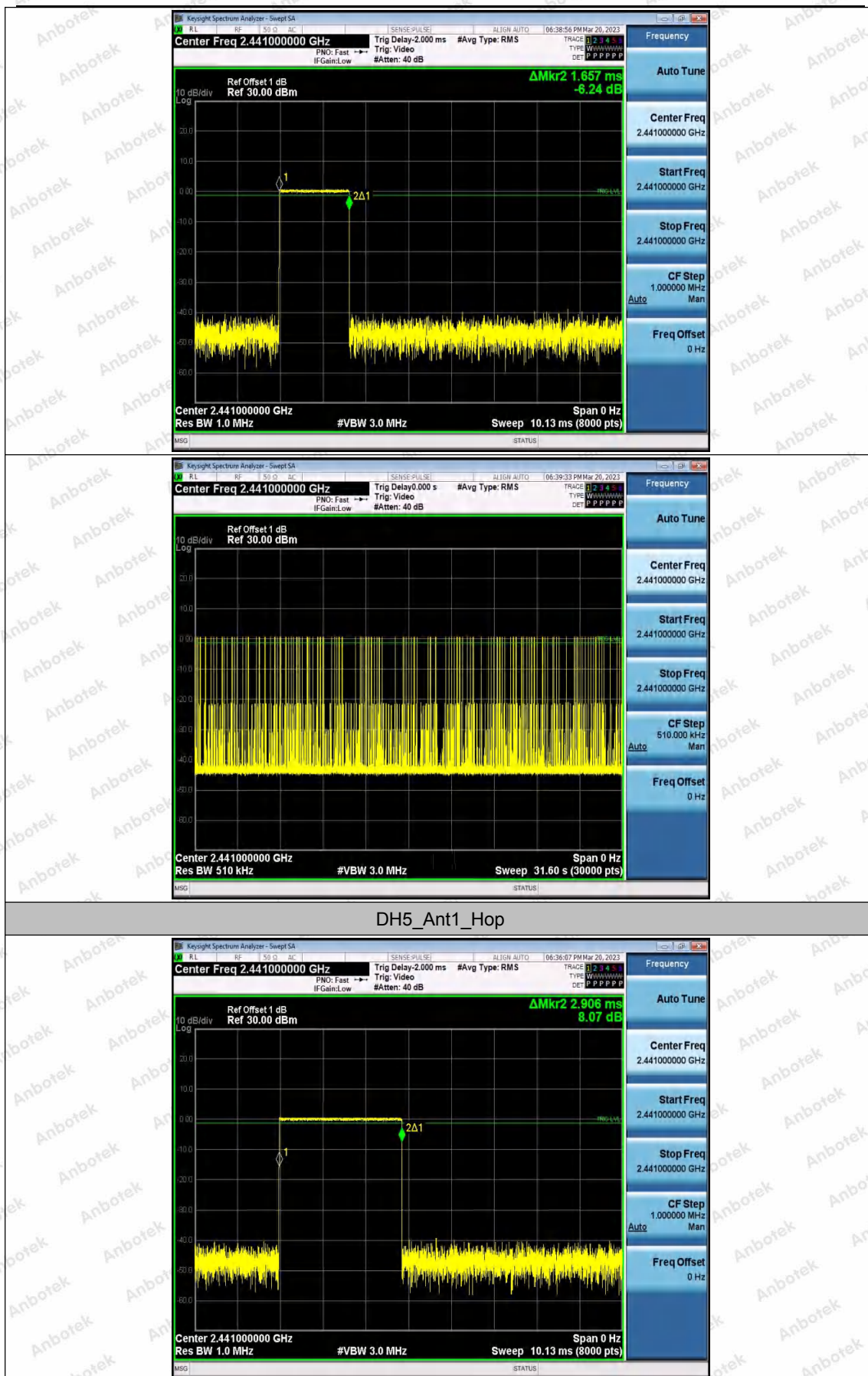
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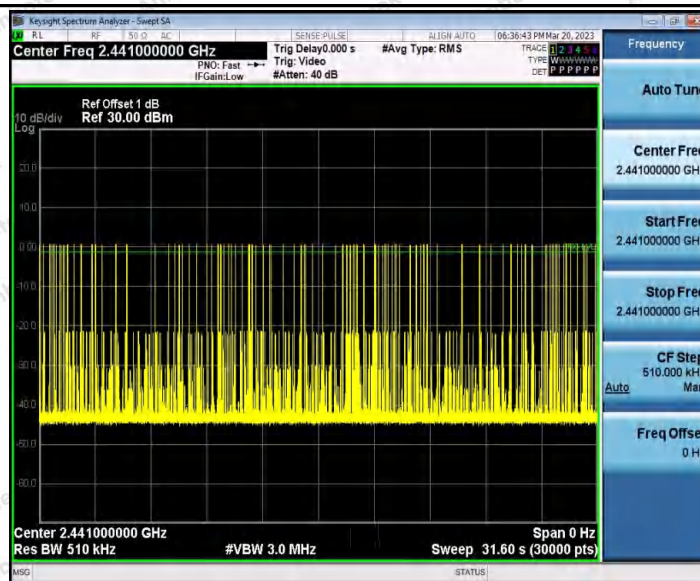
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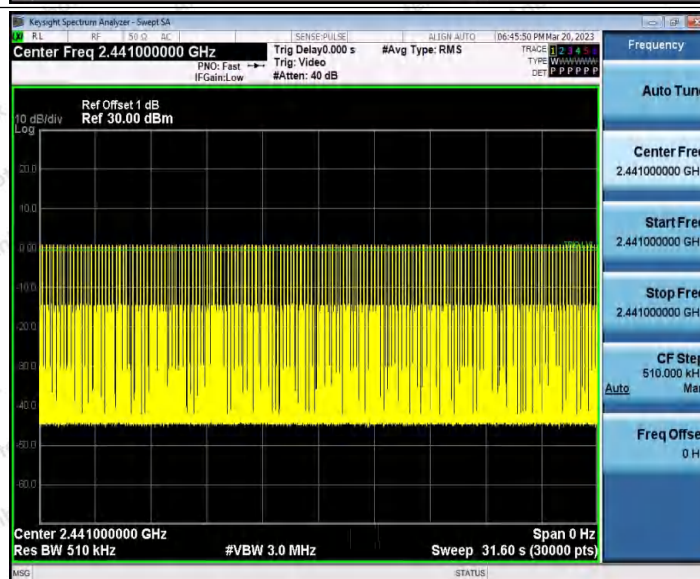
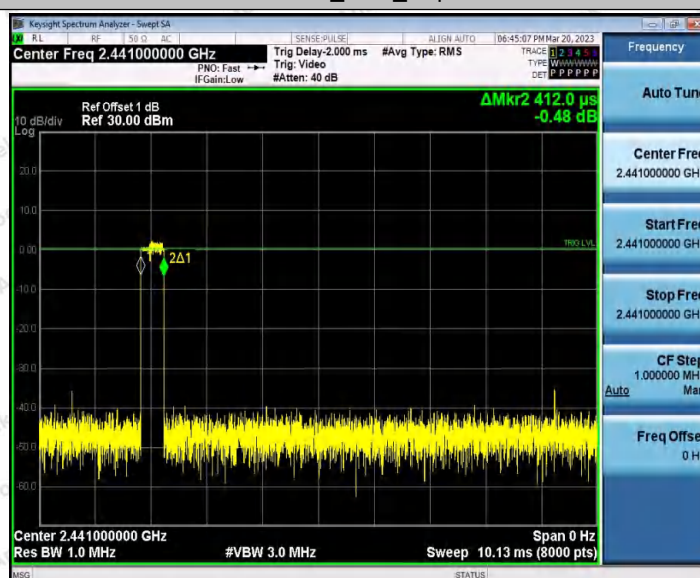


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

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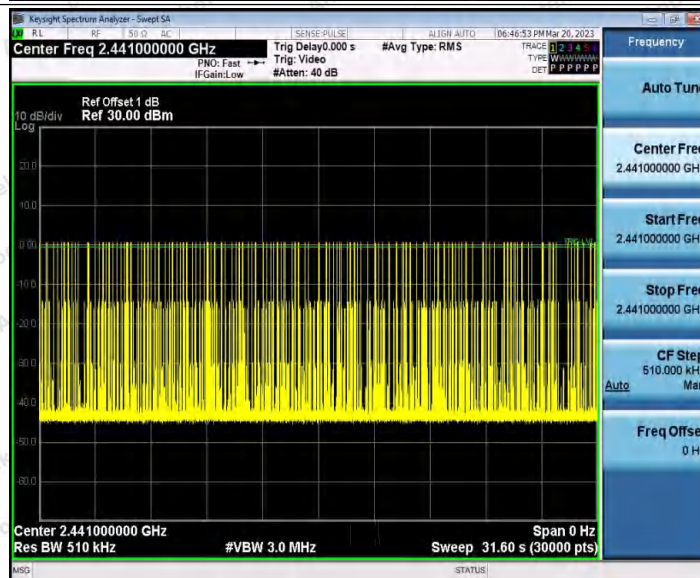
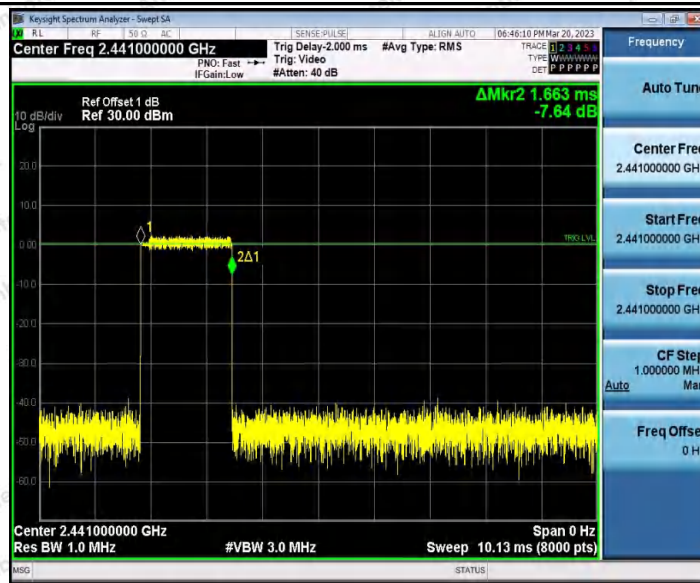


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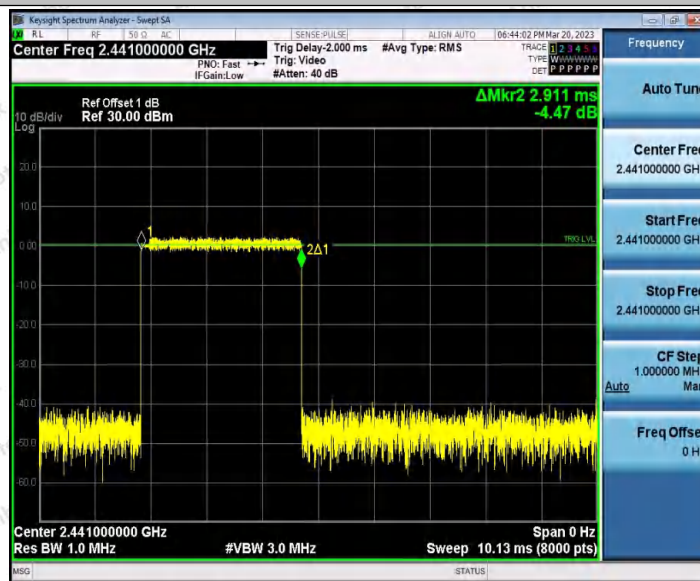
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2DH5_Ant1_Hop



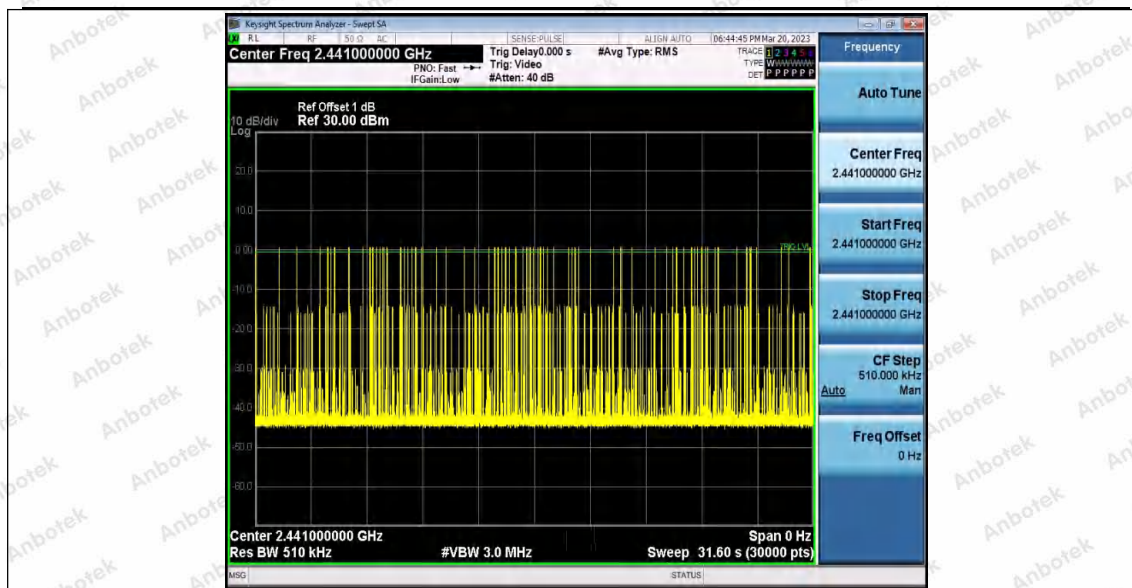
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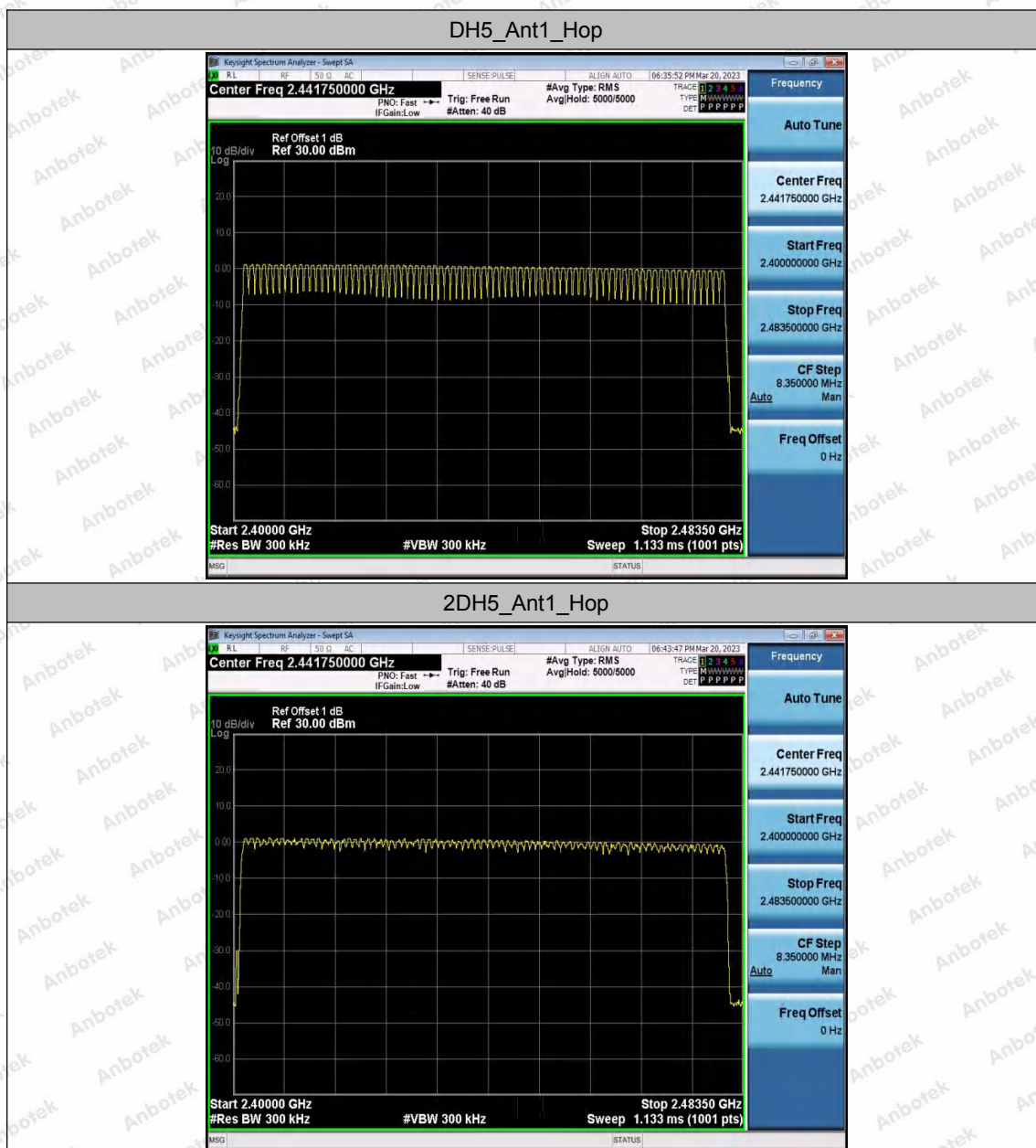


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

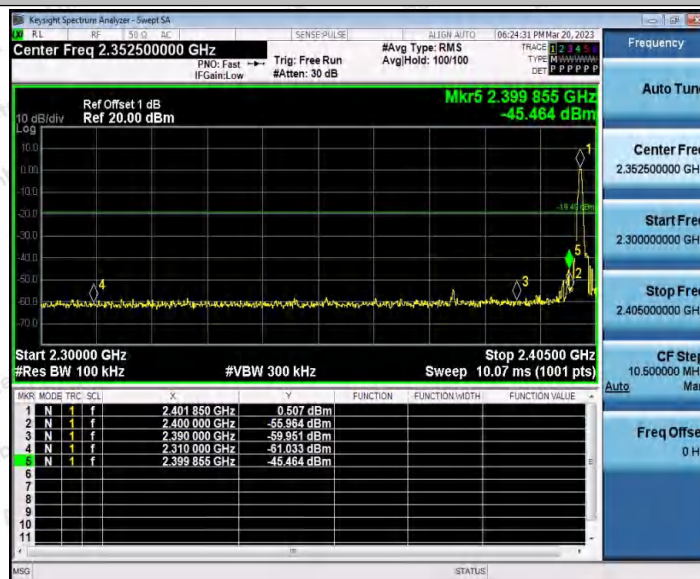
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.51	-45.46	≤-19.49	PASS
		High	2480	-1.13	-54.51	≤-21.13	PASS
		Low	Hop_2402	-0.10	-47.31	≤-20.1	PASS
		High	Hop_2480	-0.98	-49.98	≤-20.98	PASS
2DH5	Ant1	Low	2402	1.04	-44.95	≤-18.97	PASS
		High	2480	-1.55	-52.33	≤-21.55	PASS
		Low	Hop_2402	-0.86	-48.92	≤-20.86	PASS
		High	Hop_2480	-0.45	-50.14	≤-20.45	PASS

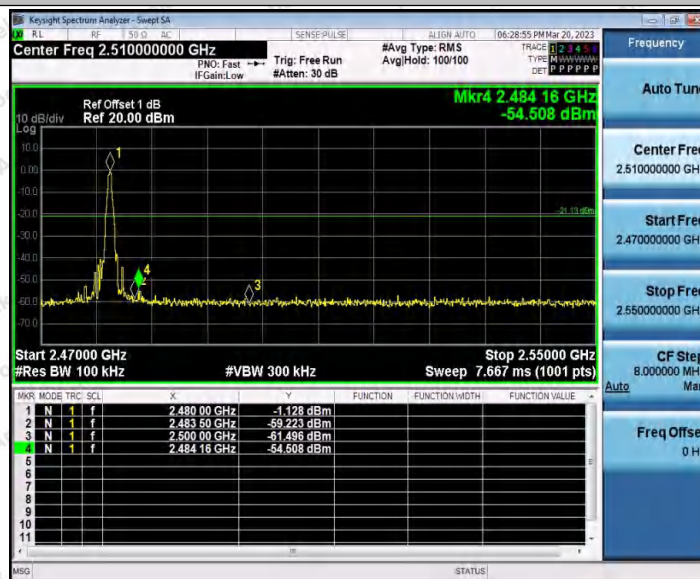


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

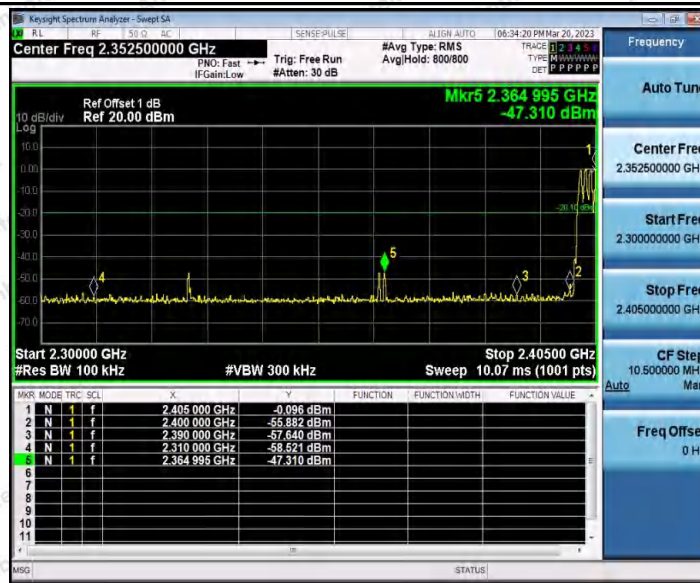
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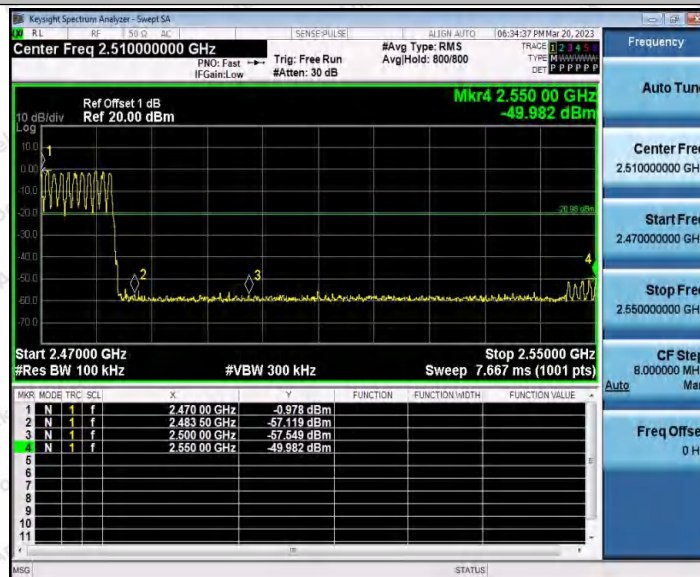


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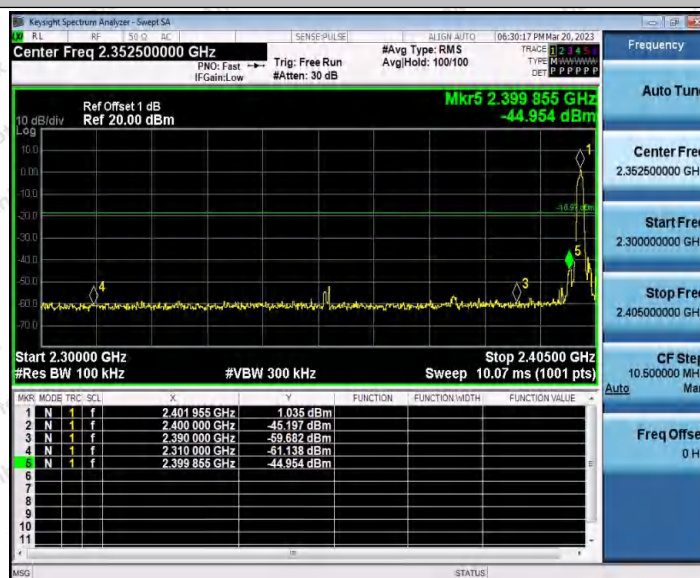




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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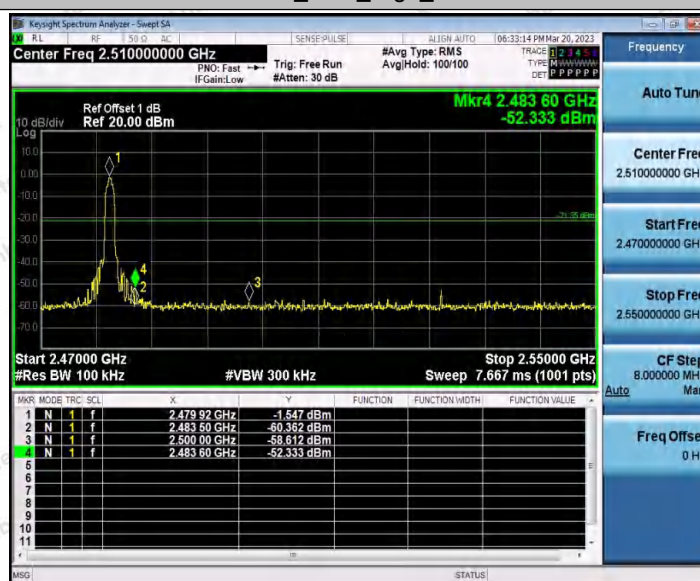
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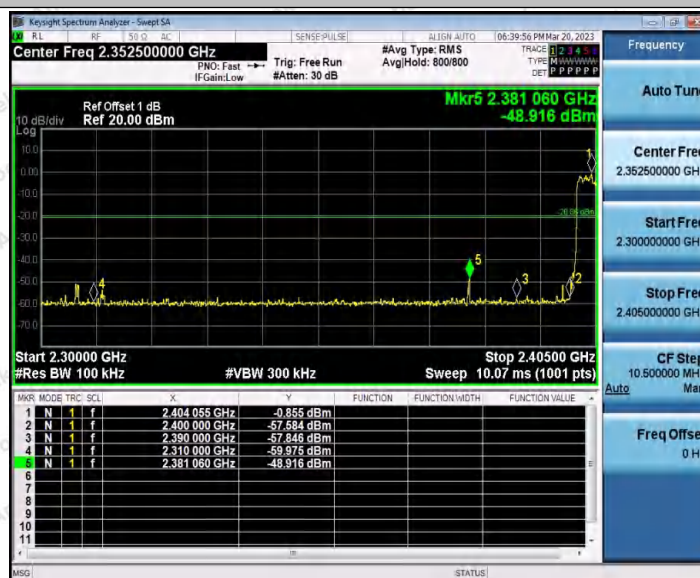
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

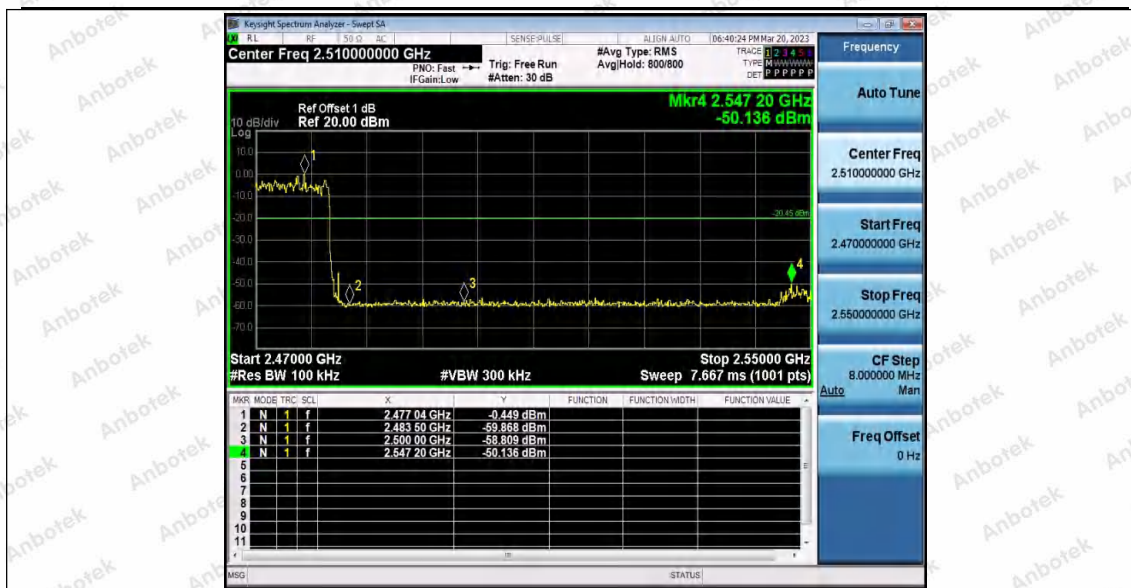
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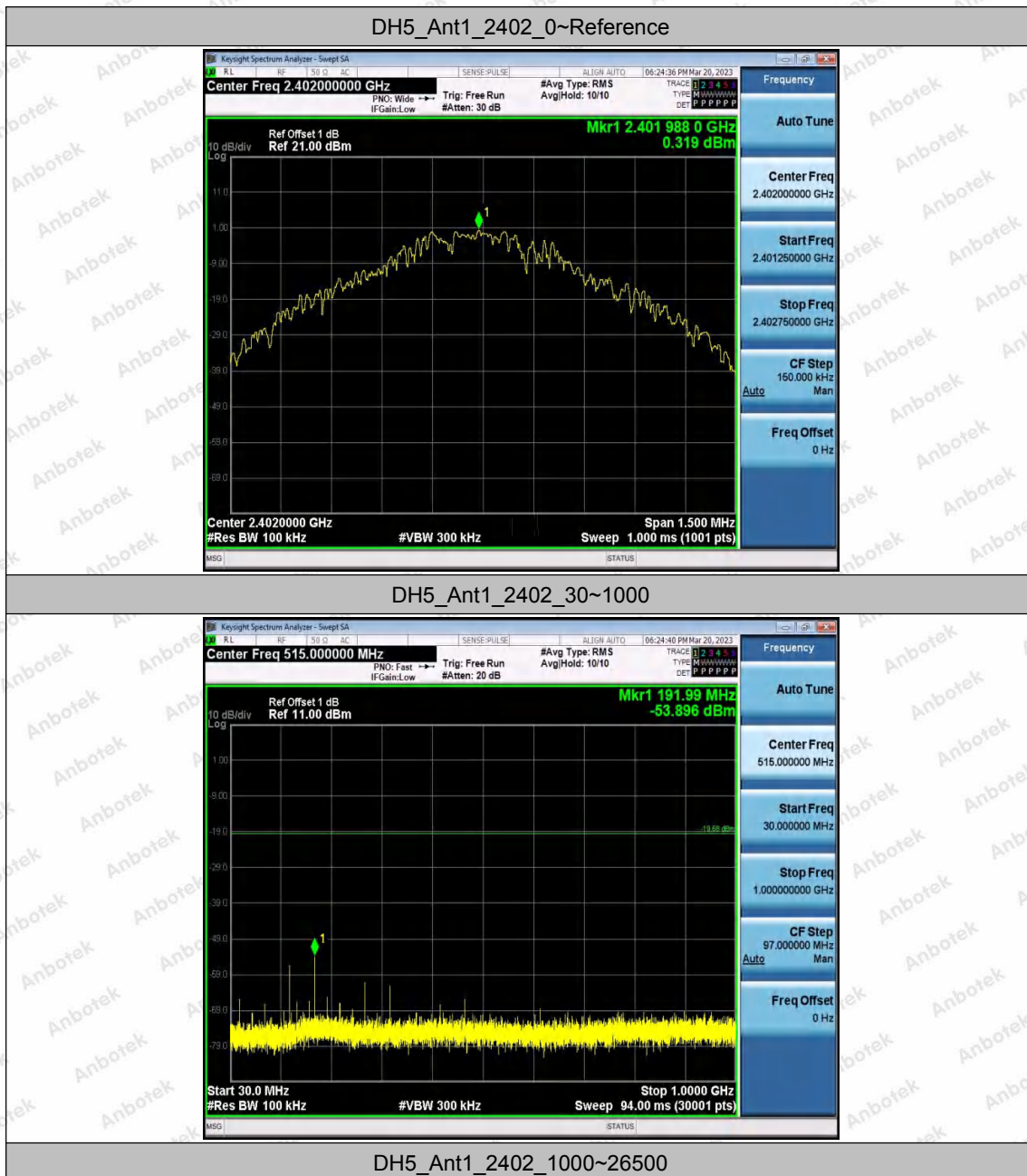
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-53.9	≤-19.68	PASS
			1000~26500	0.32	-38.06	≤-19.68	PASS
		2441	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-54.14	≤-20.29	PASS
			1000~26500	-0.29	-39.26	≤-20.29	PASS
		2480	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-53.63	≤-20.78	PASS
			1000~26500	-0.78	-39.32	≤-20.78	PASS
2DH5	Ant1	2402	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-54.07	≤-20.19	PASS
			1000~26500	-0.19	-40.12	≤-20.19	PASS
		2441	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-53.47	≤-20.39	PASS
			1000~26500	-0.39	-39.5	≤-20.39	PASS
		2480	Reference	-2.85	-2.85	---	PASS
			30~1000	-2.85	-53.47	≤-22.85	PASS
			1000~26500	-2.85	-43.74	≤-22.85	PASS



Test Graphs



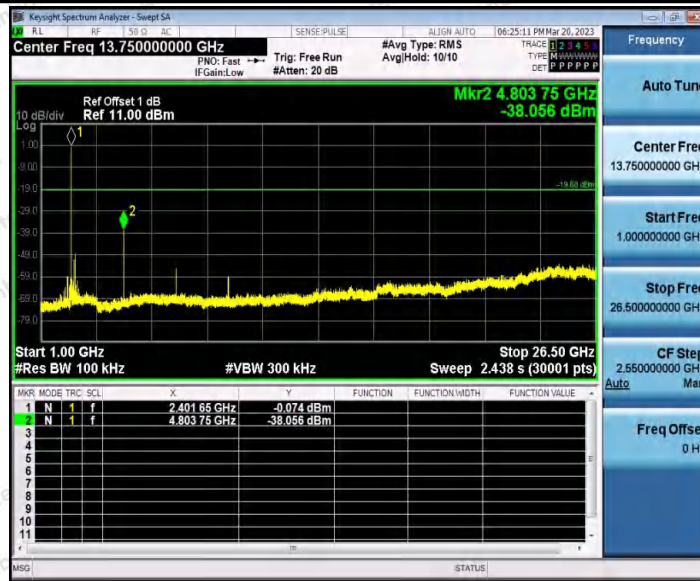
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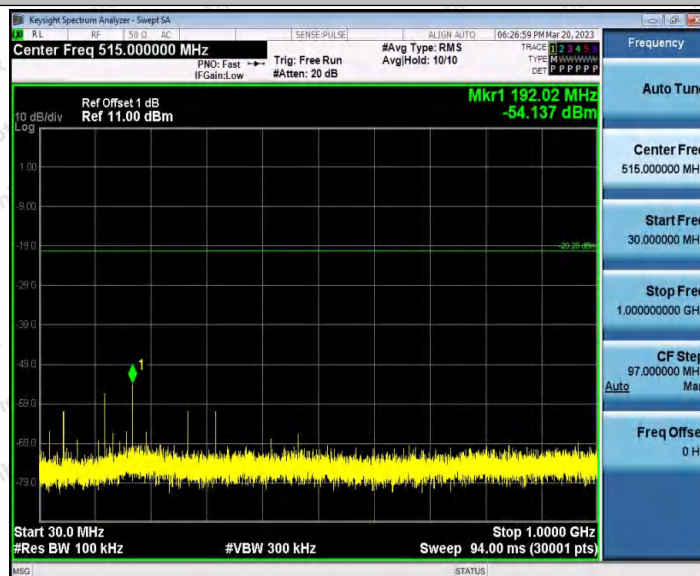




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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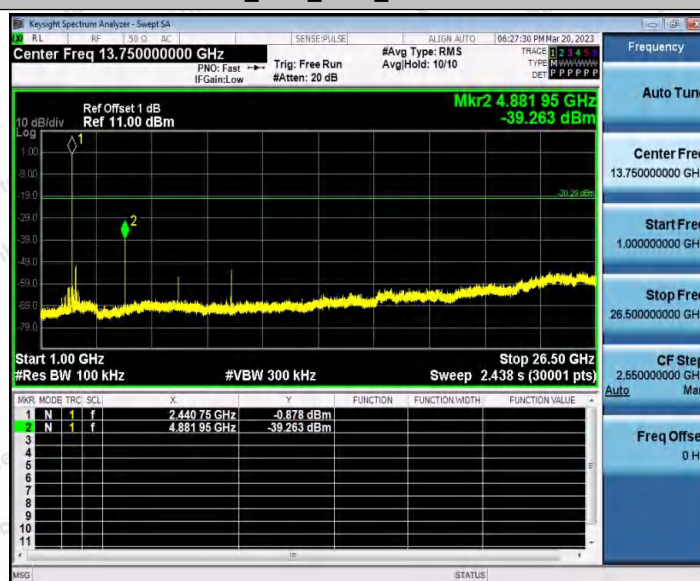
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

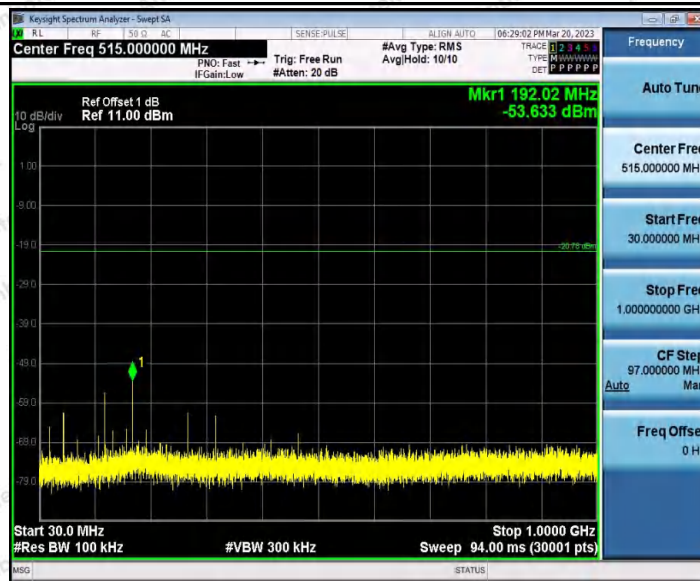
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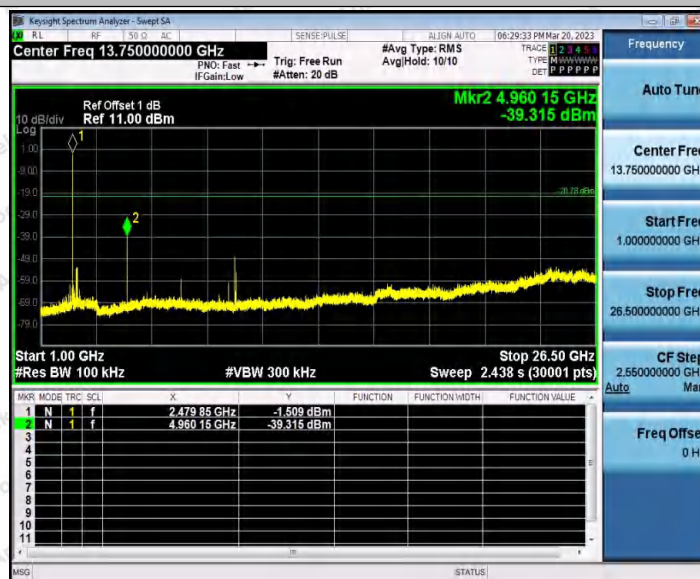


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



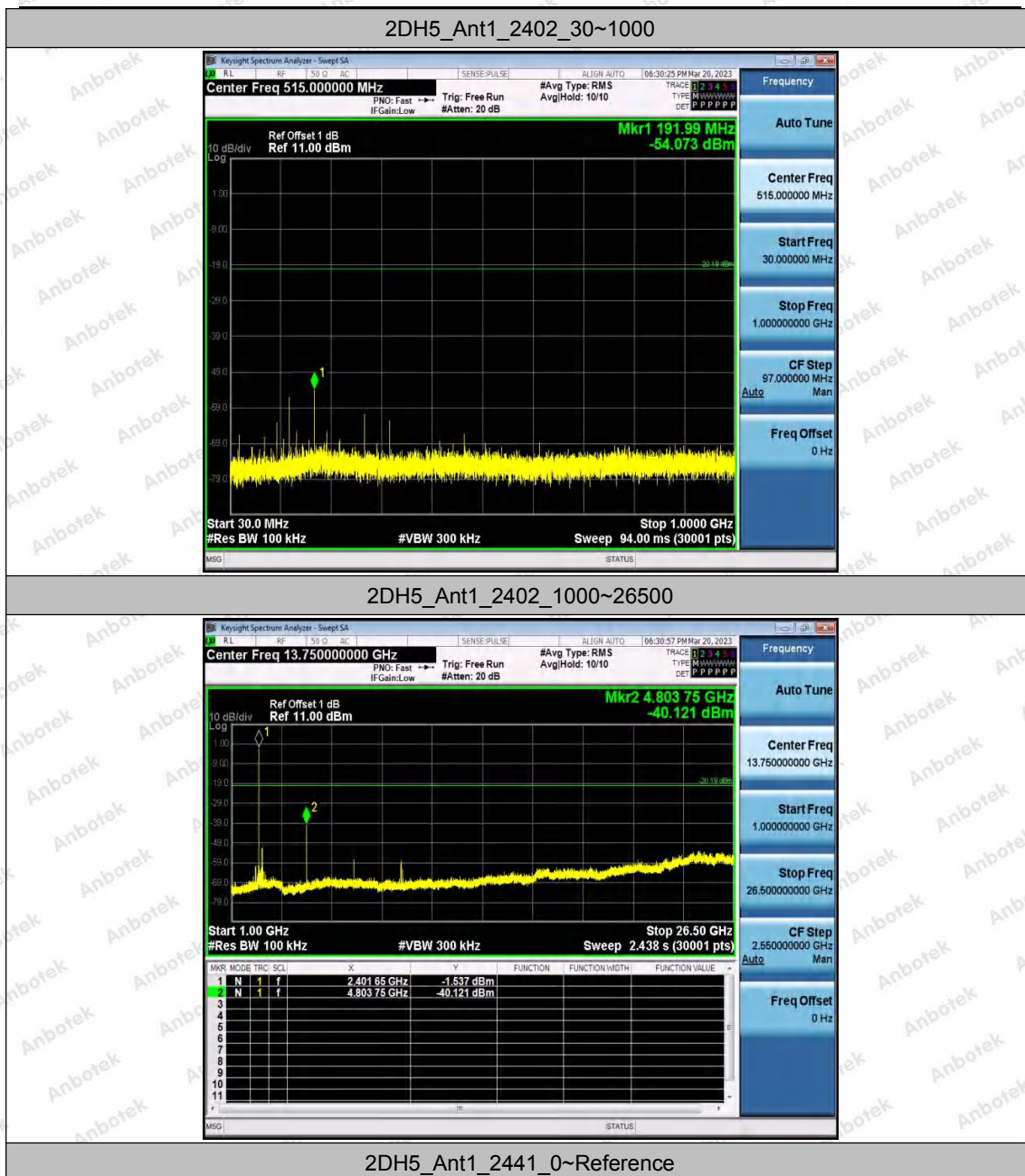
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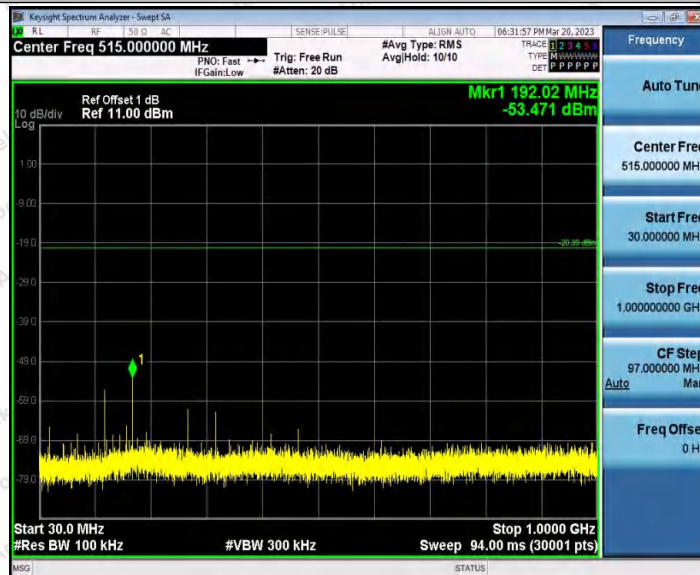


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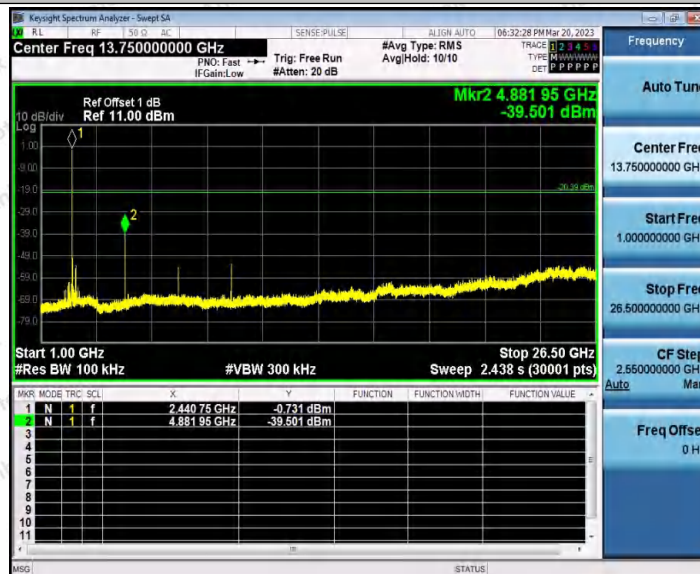




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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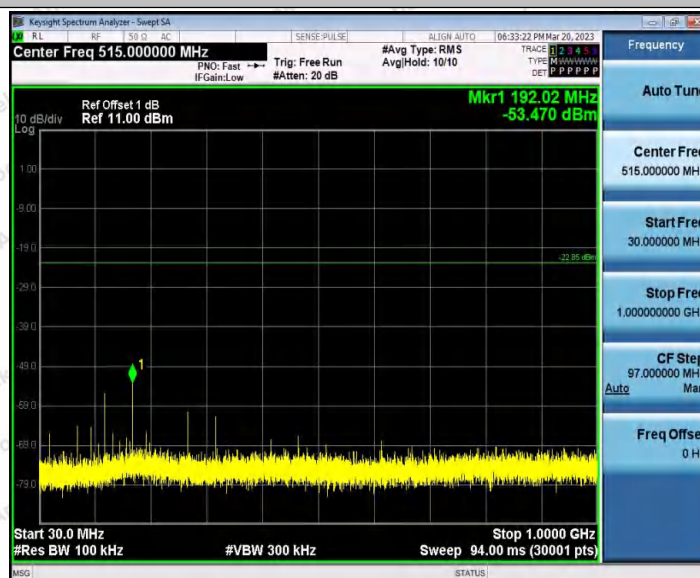
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

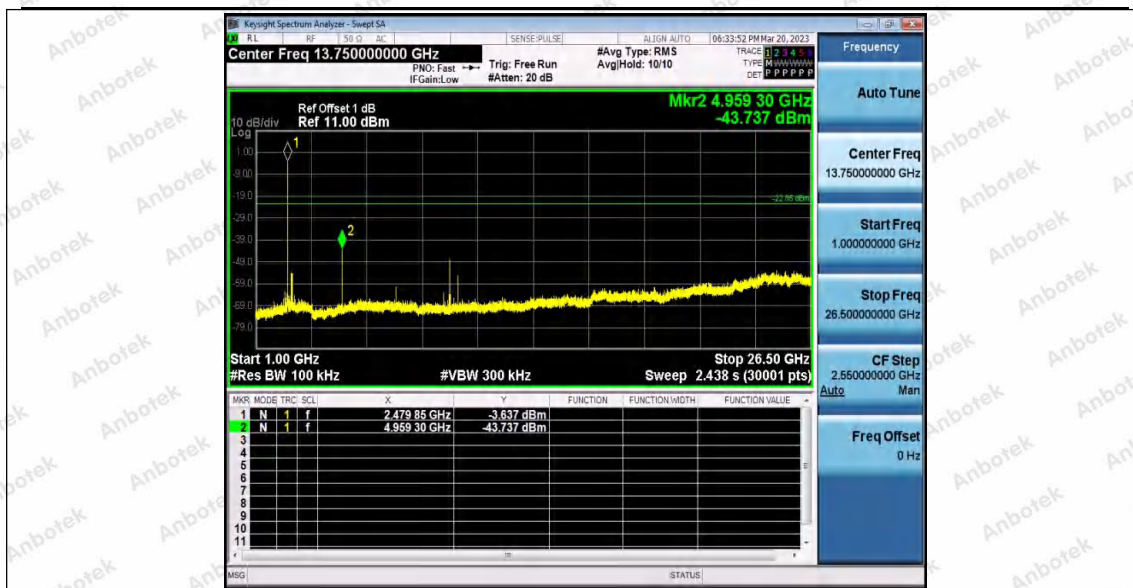
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Appendix I: Duty Cycle

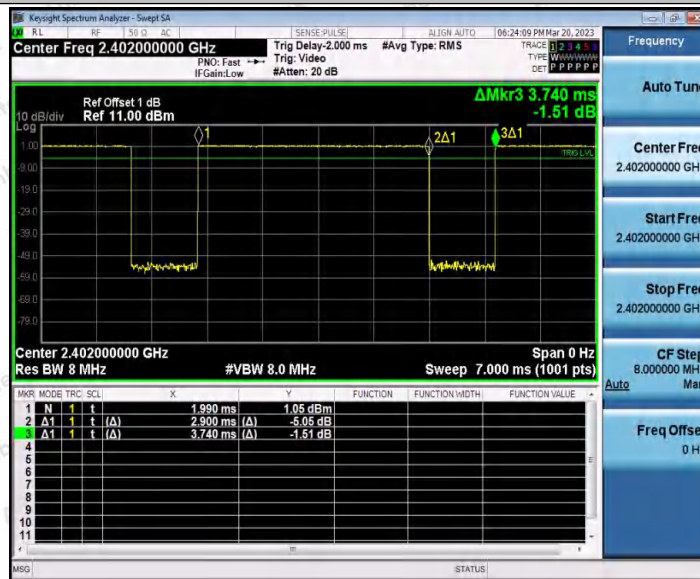
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.90	3.74	77.54	1.10
		2441	2.90	3.75	77.33	1.12
		2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.91	3.75	77.60	1.10
		2480	2.91	3.74	77.81	1.09

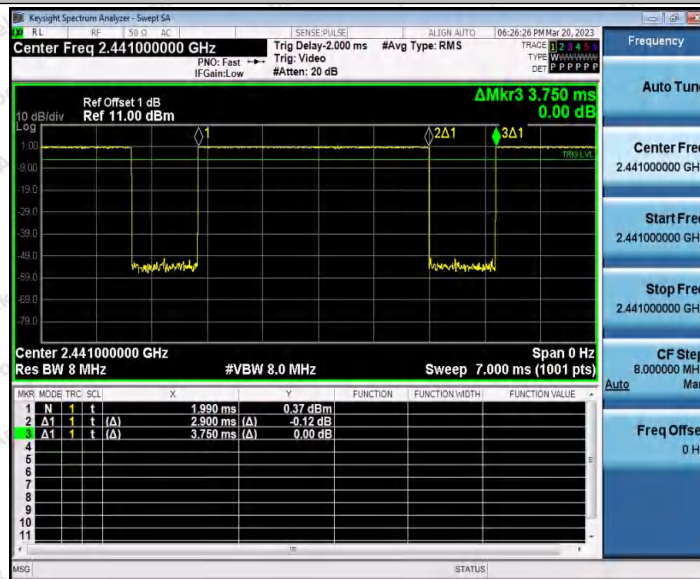


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

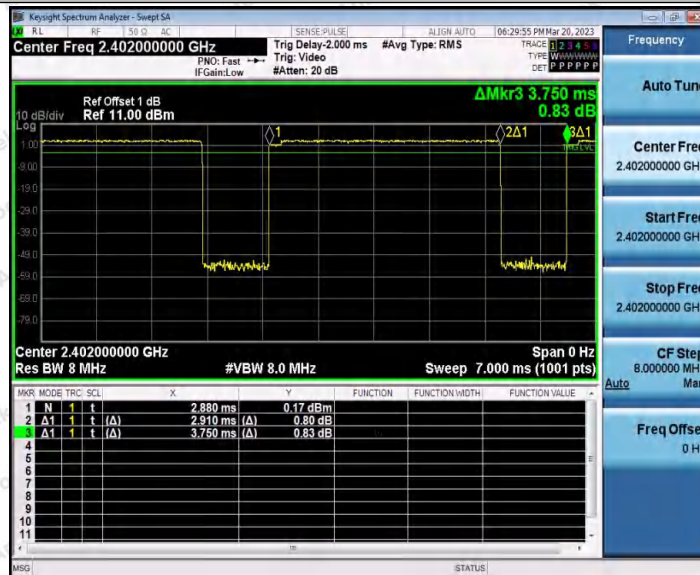


Hotline
400-003-0500
www.anbotek.com.cn

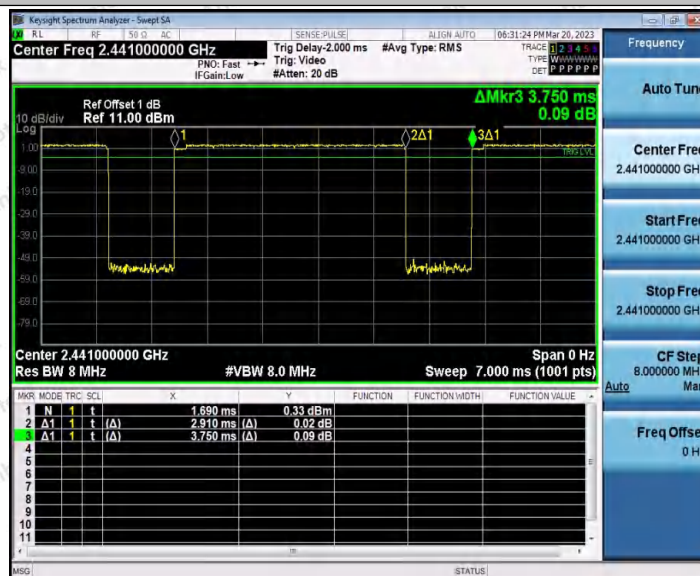




2DH5_Ant1_2402



2DH5_Ant1_2441

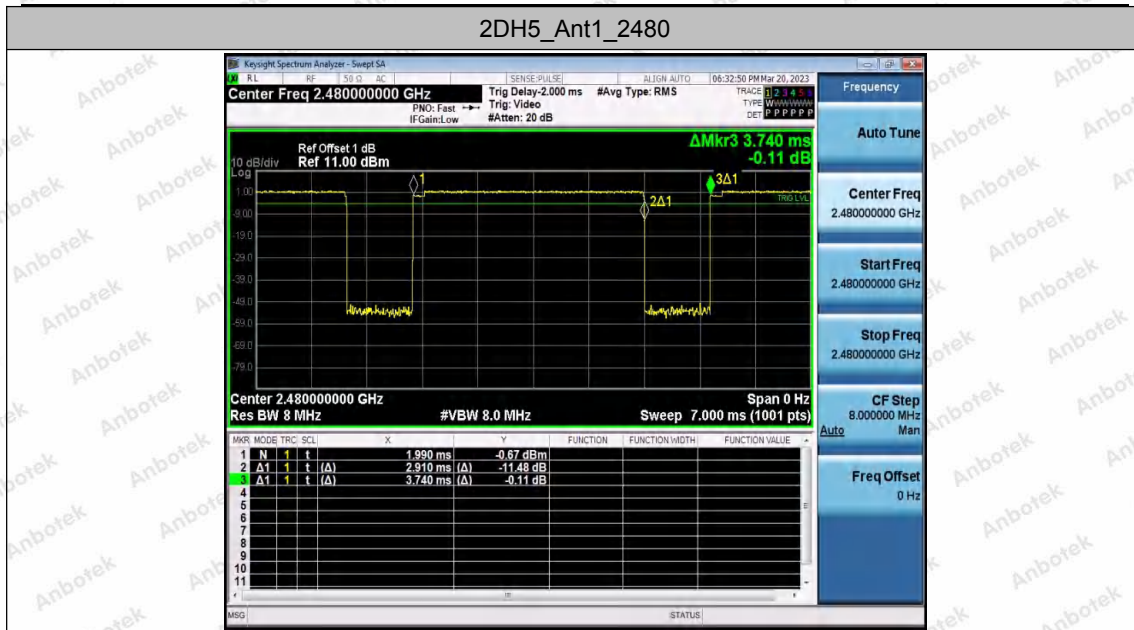


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