

Appendix Test Data

Report No.:	18220WC20254401	Test Sample No.:	1-2-2
Start Test Date:	2022.10.31	Finish Test Date:	2022.11.1
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
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	0.954	2401.565	2402.519
		2441	0.939	2440.568	2441.507
		2480	0.954	2479.562	2480.516
2DH5	Ant1	2402	1.284	2401.397	2402.681
		2441	1.305	2440.373	2441.678
		2480	1.326	2479.367	2480.693

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Test Graphs



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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	0.86590	2401.5946	2402.4605
		2441	0.87710	2440.5888	2441.4659
		2480	0.86753	2479.5900	2480.4575
2DH5	Ant1	2402	1.19080	2401.4379	2402.6287
		2441	1.19680	2440.4356	2441.6324
		2480	1.19930	2479.4332	2480.6325

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2DH5_Ant1_2402



2DH5_Ant1_2441



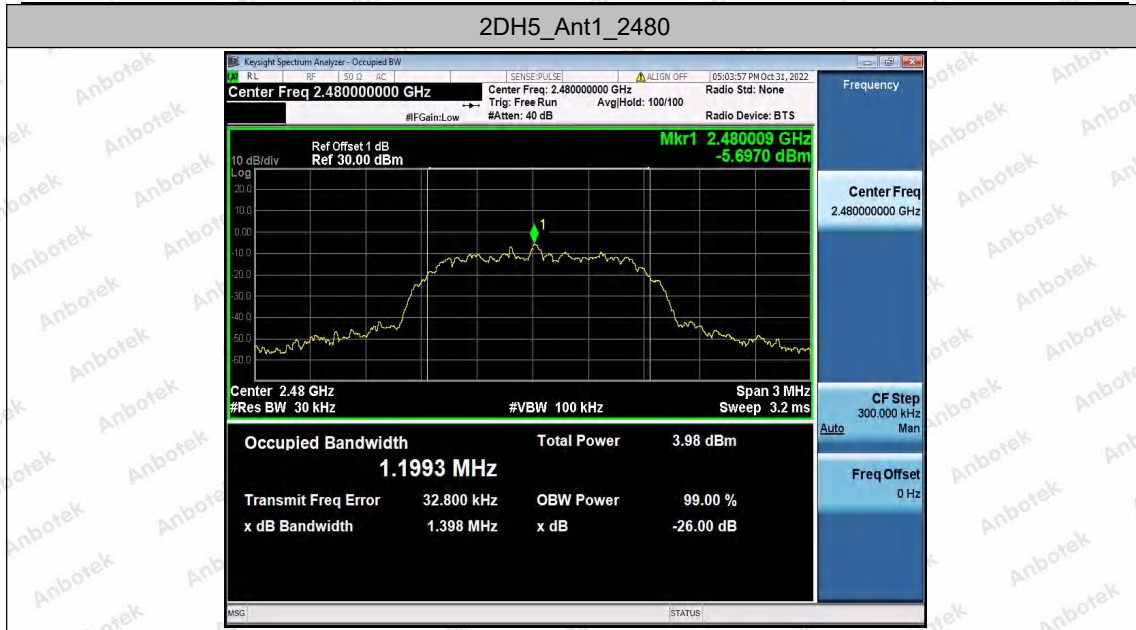
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.68	≤20.97	PASS
		2441	-0.72	≤20.97	PASS
		2480	-1.06	≤20.97	PASS
2DH5	Ant1	2402	0.17	≤20.97	PASS
		2441	-0.08	≤20.97	PASS
		2480	-0.40	≤20.97	PASS



Test Graphs



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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	0.872	≥0.636	PASS
2DH5	Ant1	Hop	1.330	≥1.326	PASS



Test Graphs



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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.383	316	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.638	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.885	107	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.390	314	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.643	161	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.891	113	0.327	≤0.4	PASS

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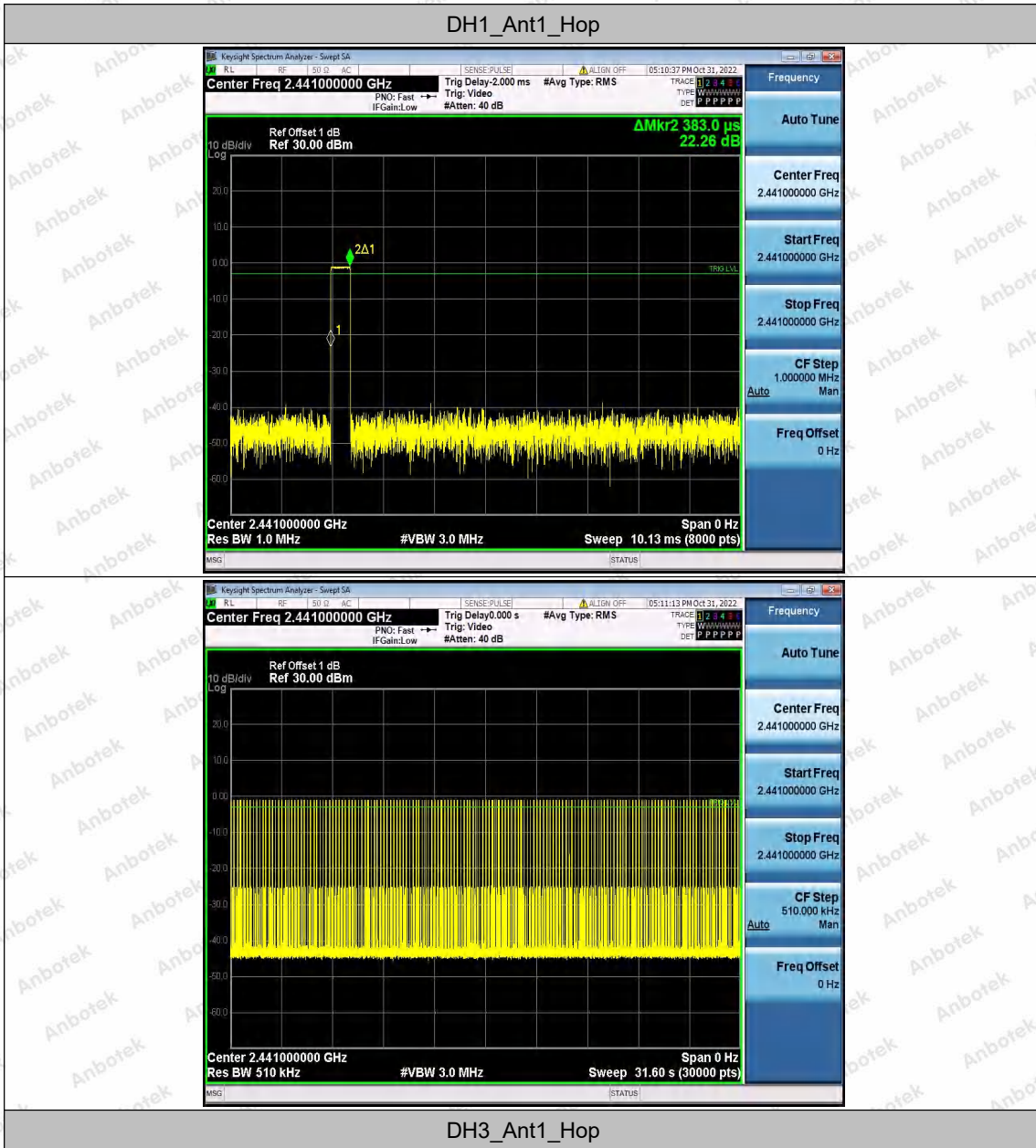
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Test Graphs

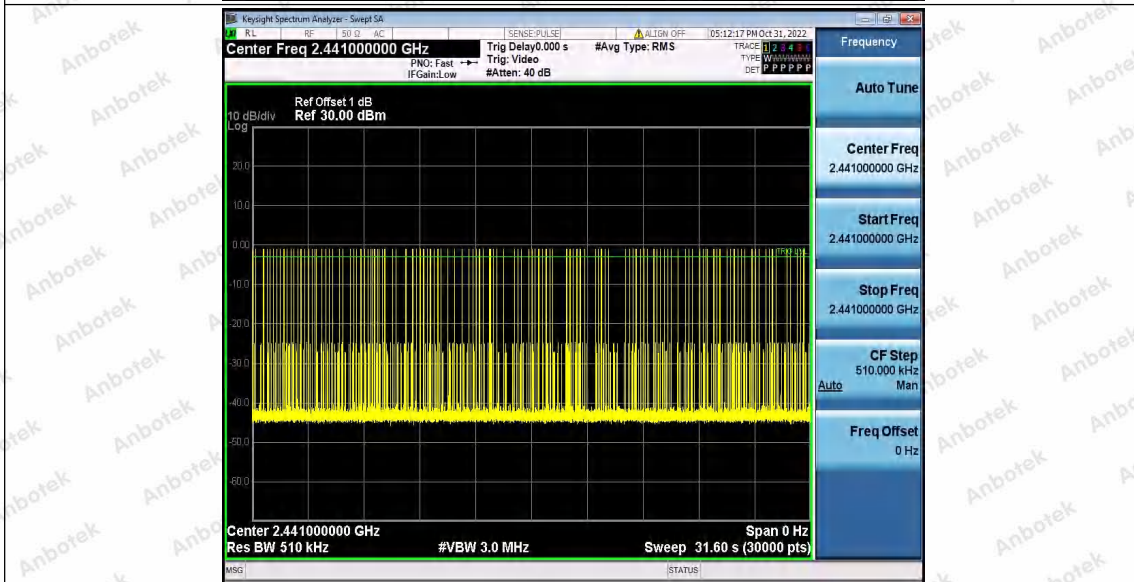
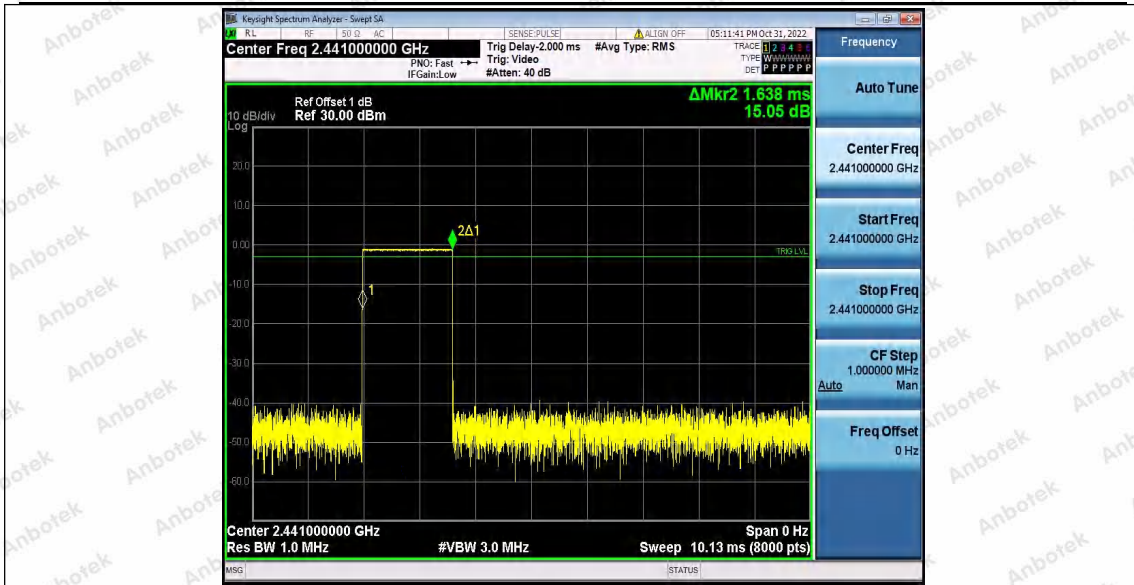


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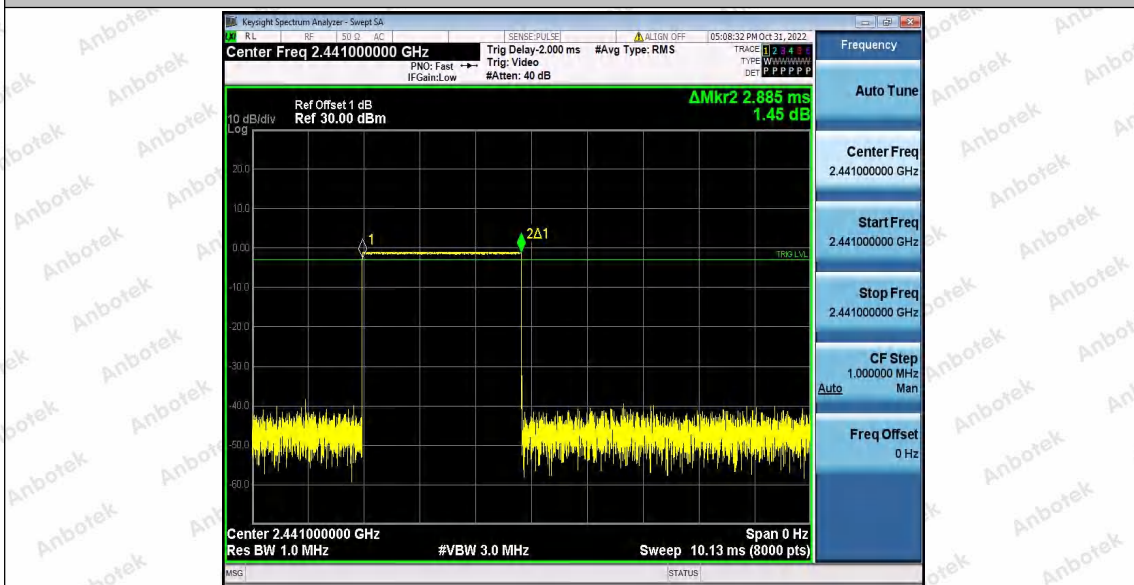
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DH5_Ant1_Hop

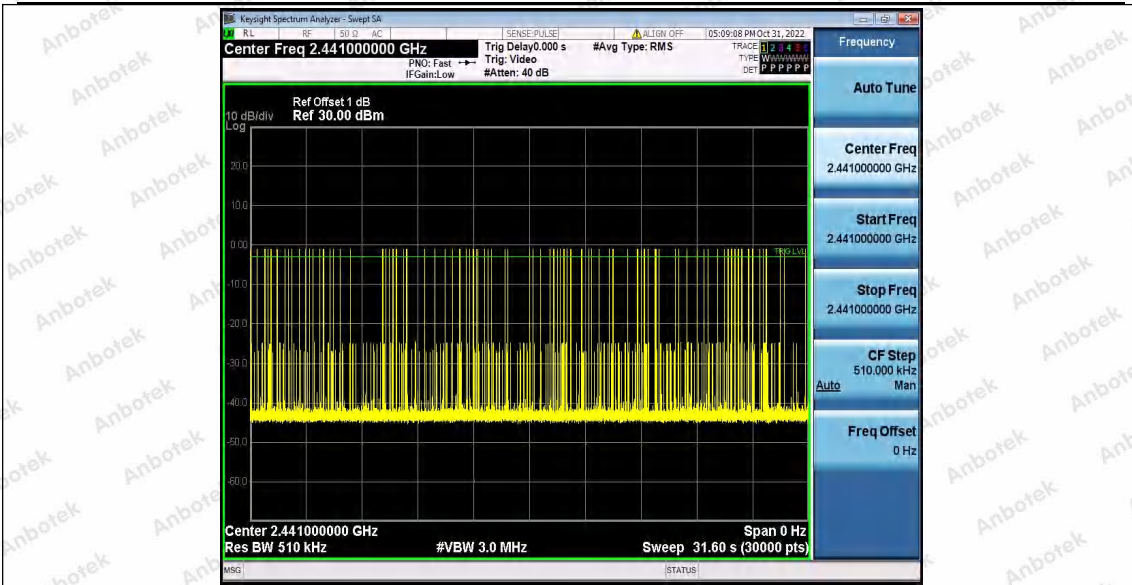


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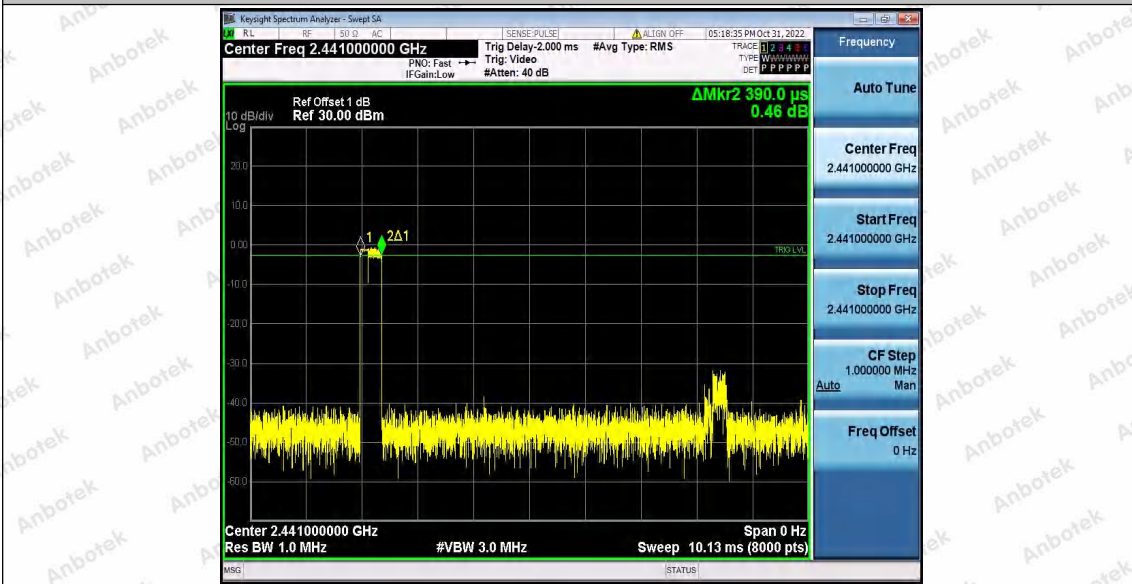
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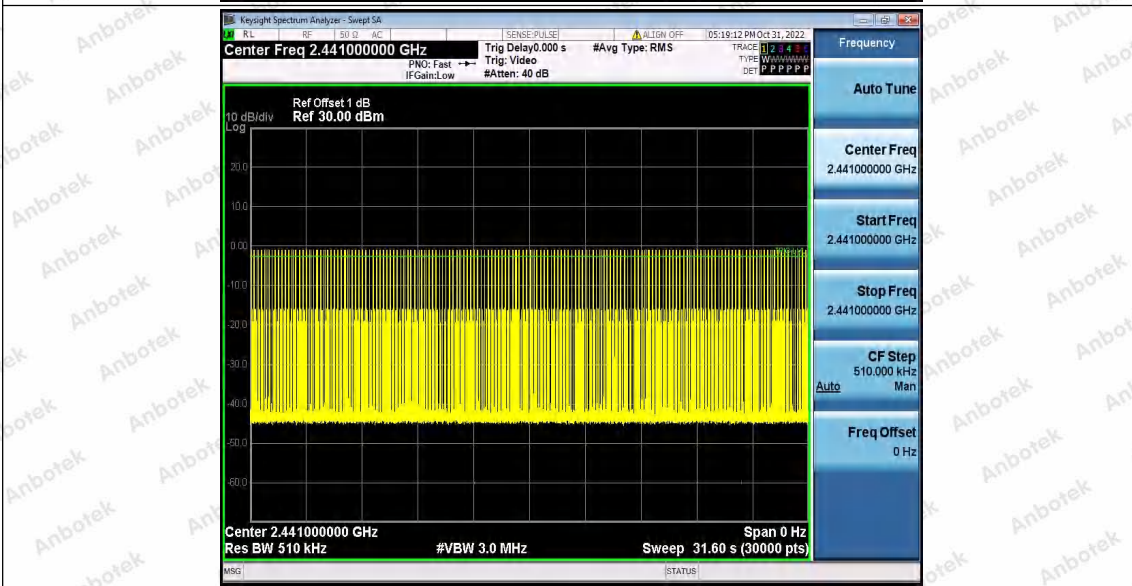




2DH1_Ant1_Hop



2DH3_Ant1_Hop

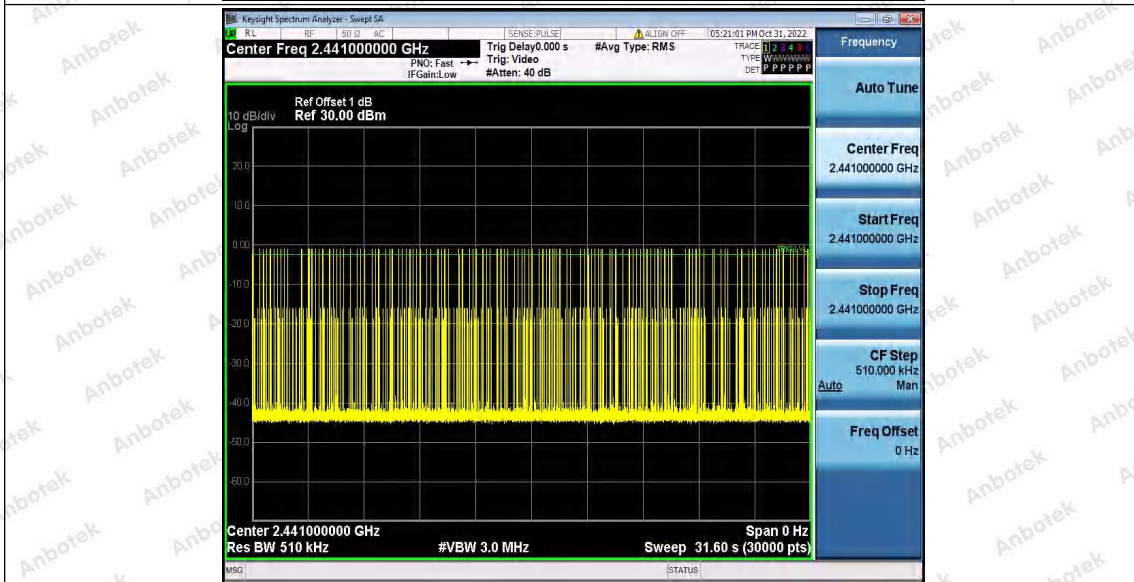
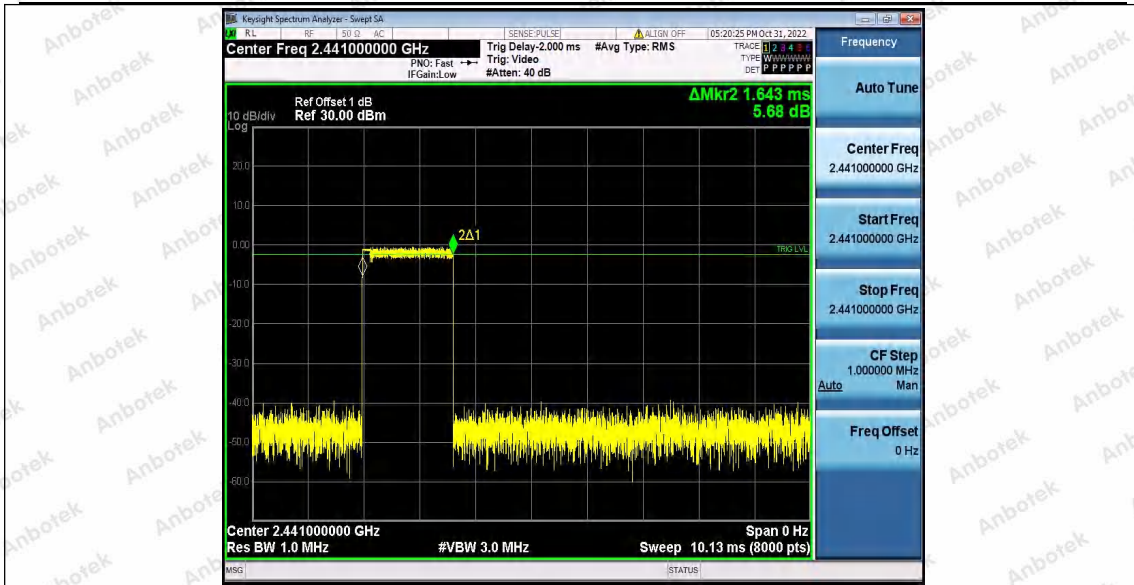


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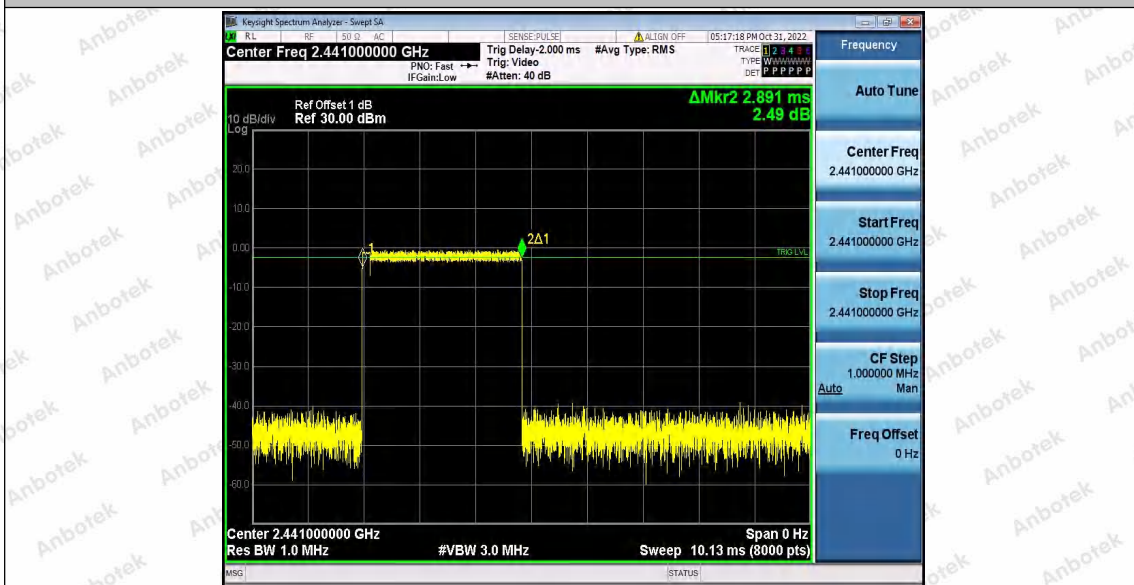
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2DH5_Ant1_Hop

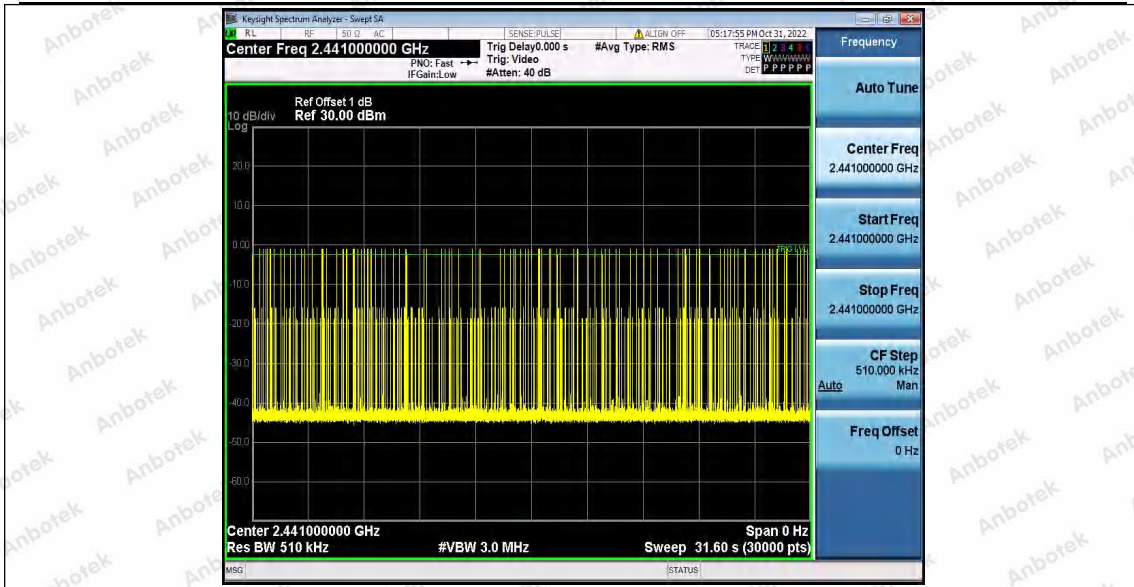


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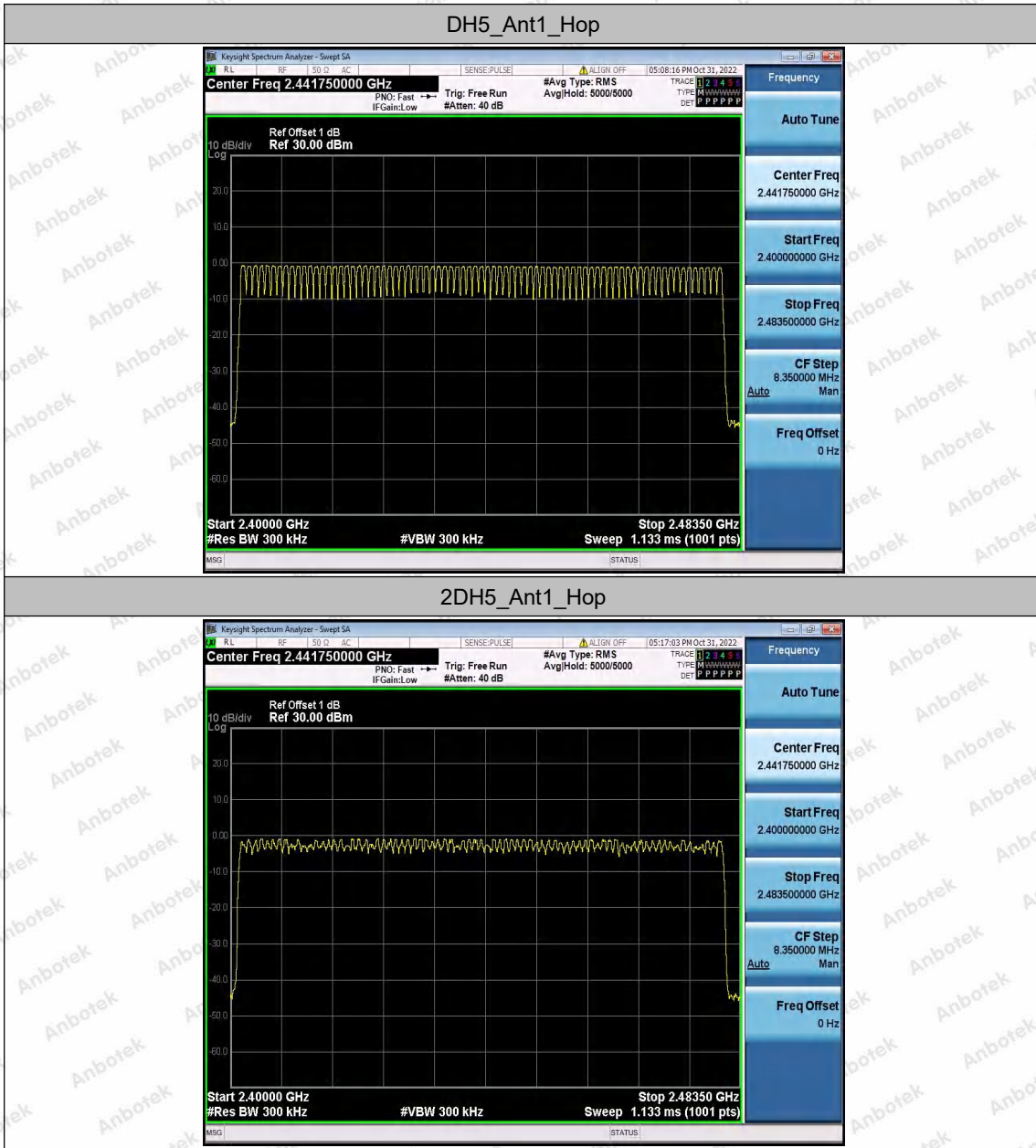
Appendix F: Number of hopping channels

Test Result

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



Test Graphs



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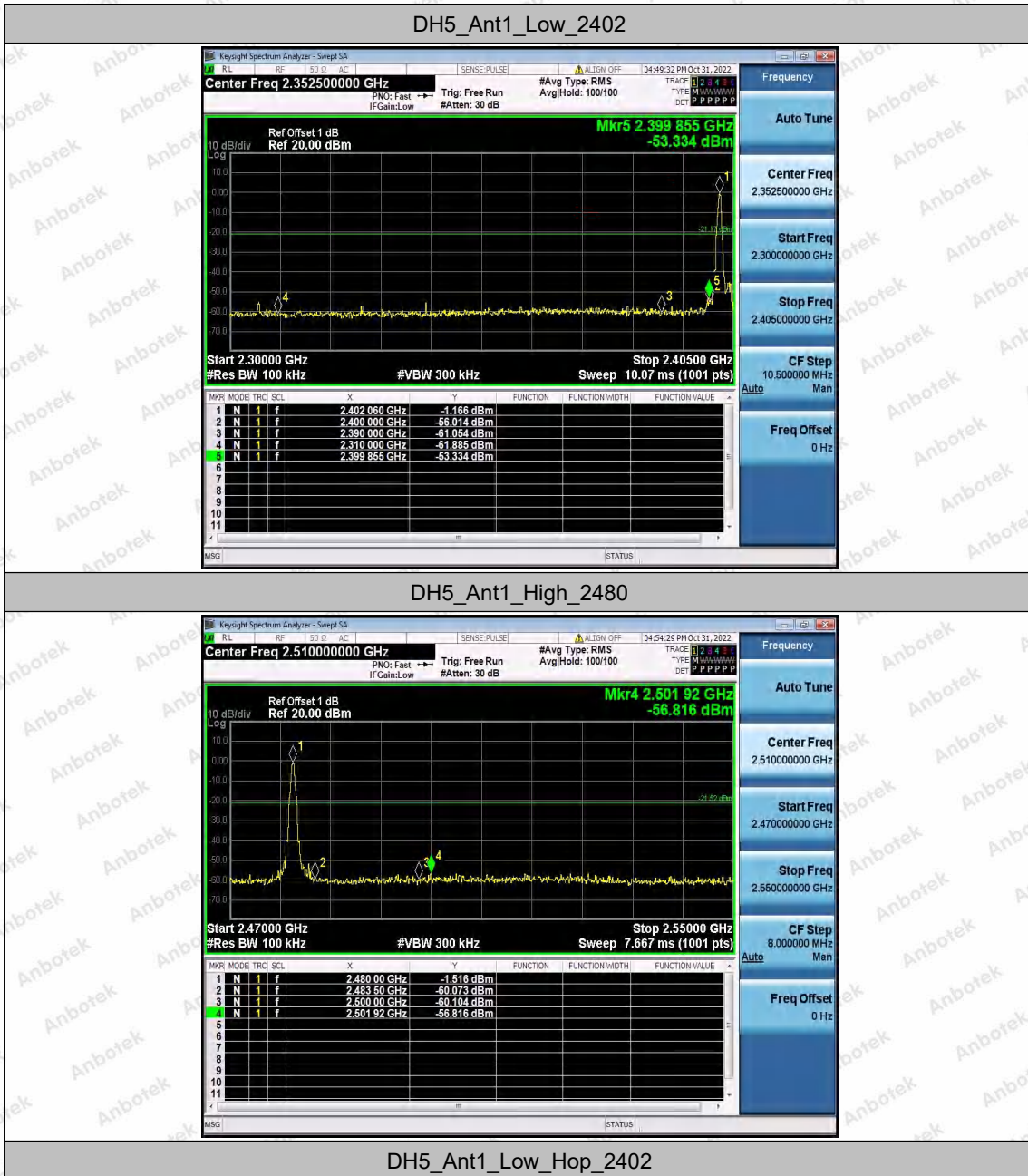
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.17	-53.33	≤-21.17	PASS
		High	2480	-1.52	-56.82	≤-21.52	PASS
		Low	Hop_2402	-1.31	-52.88	≤-21.31	PASS
		High	Hop_2480	-1.56	-53.27	≤-21.56	PASS
2DH5	Ant1	Low	2402	-1.05	-53.07	≤-21.05	PASS
		High	2480	-1.99	-57.01	≤-21.99	PASS
		Low	Hop_2402	-2.05	-54.78	≤-22.05	PASS
		High	Hop_2480	-1.85	-54.44	≤-21.85	PASS



Test Graphs

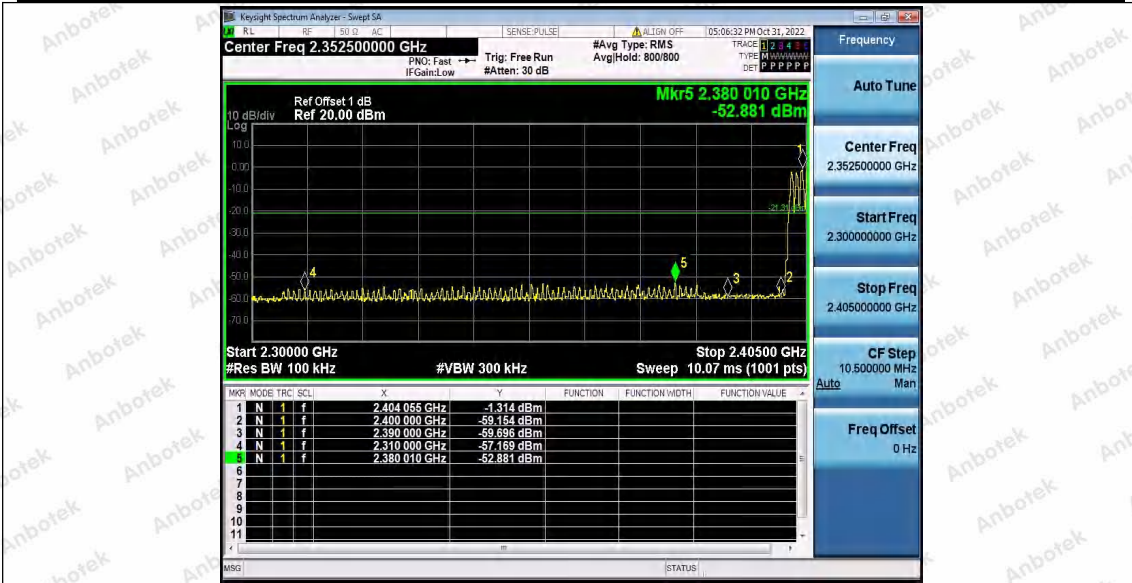


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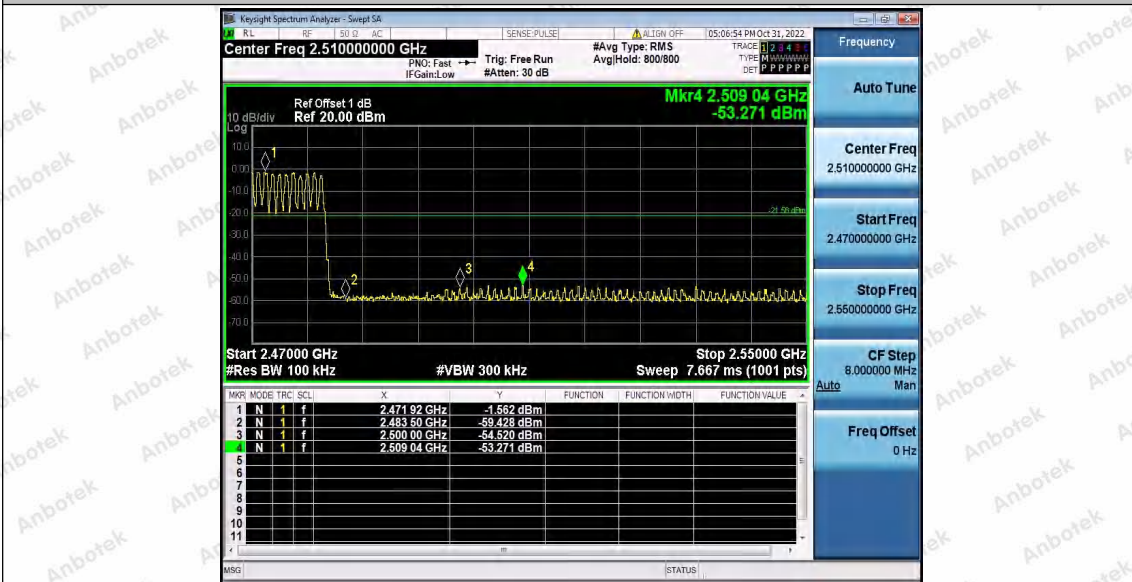
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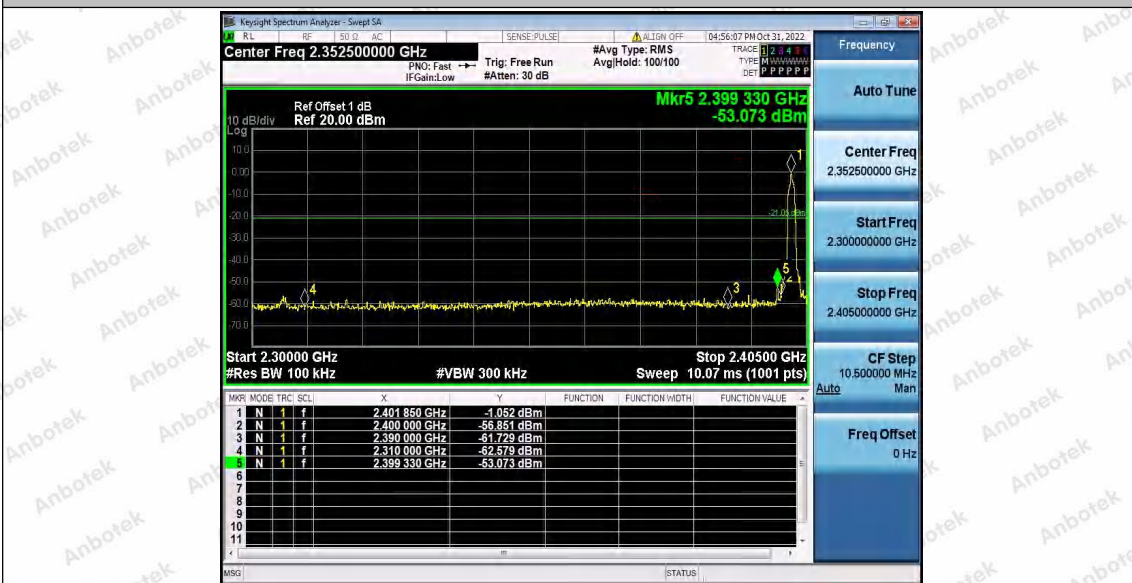




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



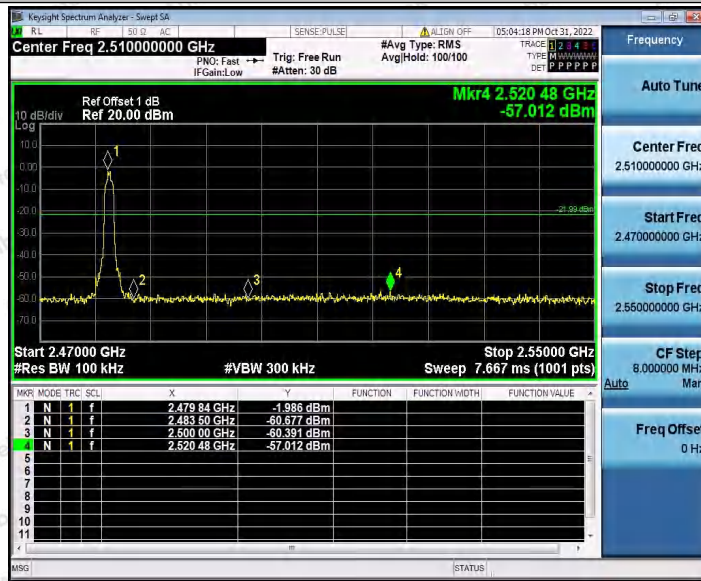
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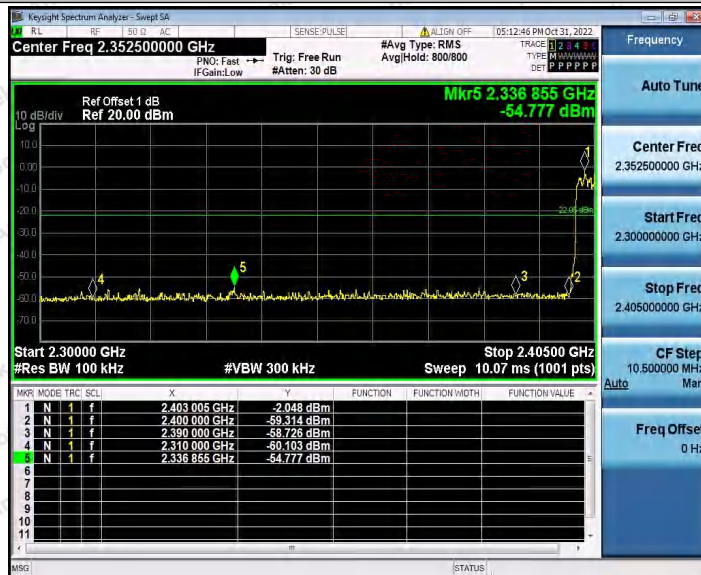
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



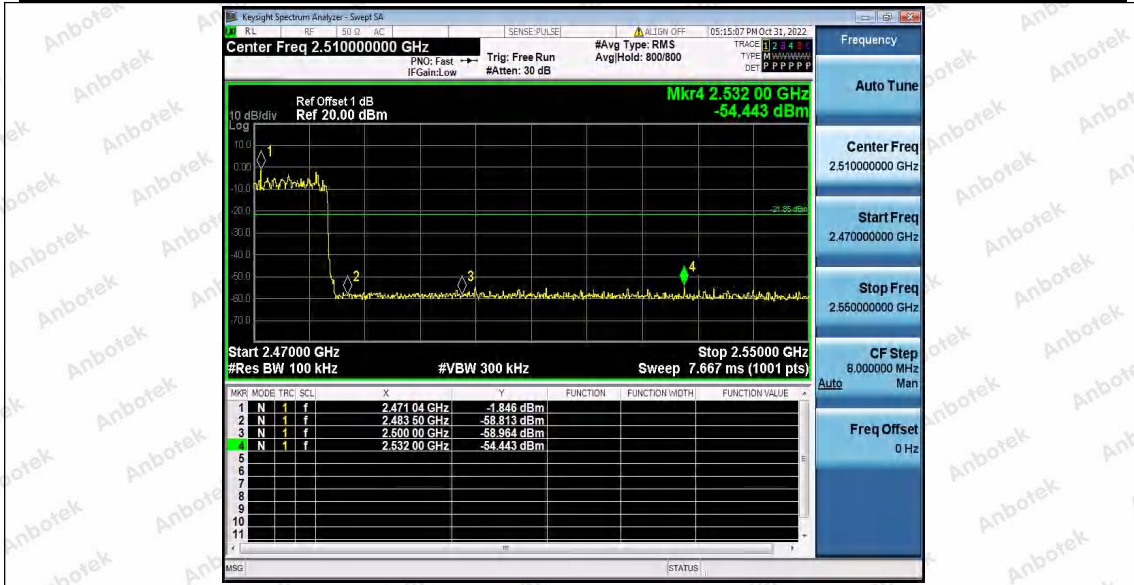
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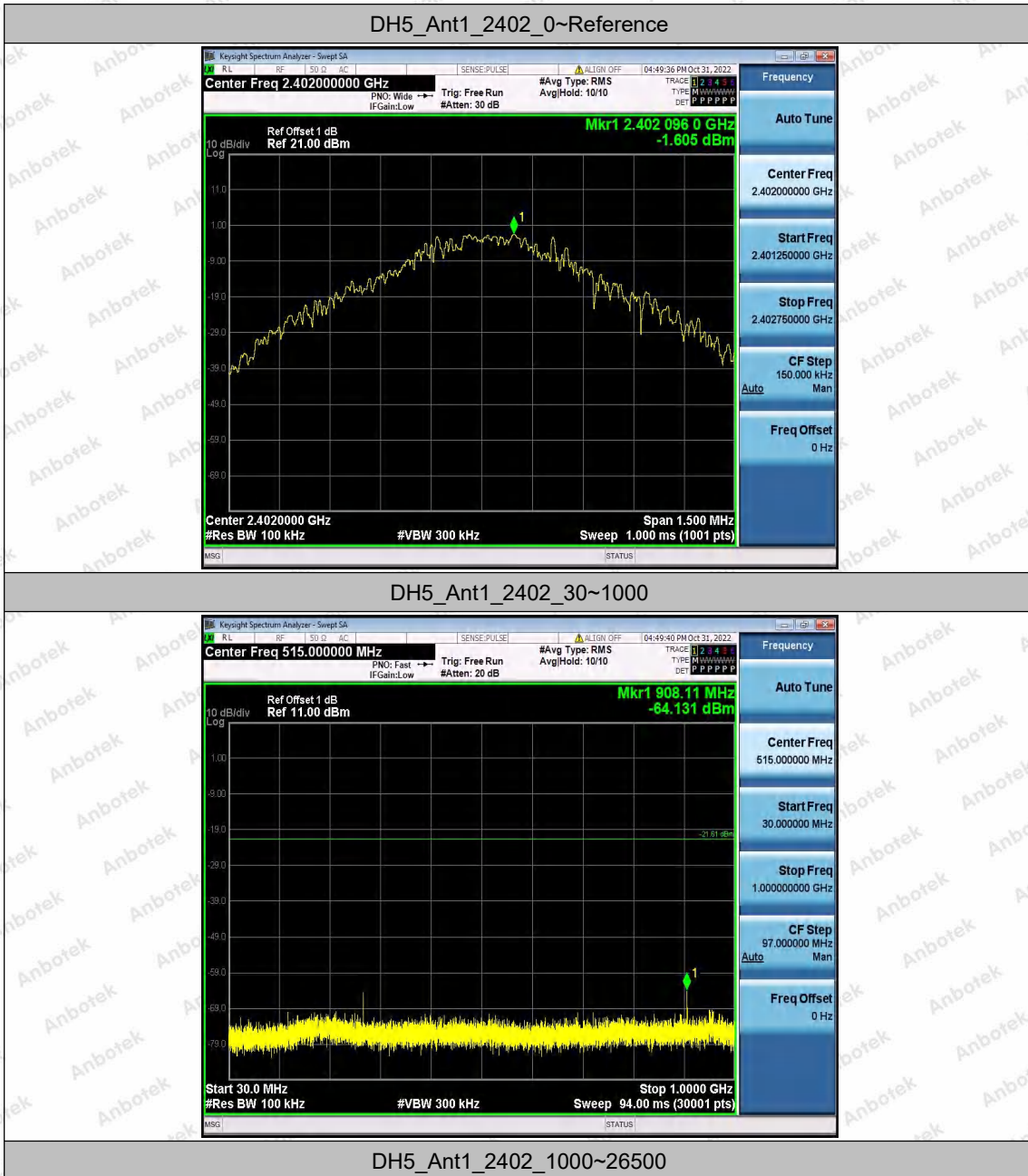
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-64.13	≤-21.61	PASS
			1000~26500	-1.61	-39.4	≤-21.61	PASS
		2441	Reference	-1.80	-1.80	---	PASS
			30~1000	-1.80	-64.46	≤-21.8	PASS
			1000~26500	-1.80	-38.43	≤-21.8	PASS
		2480	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-69.45	≤-21.66	PASS
			1000~26500	-1.66	-37.23	≤-21.66	PASS
2DH5	Ant1	2402	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-63.37	≤-22.06	PASS
			1000~26500	-2.06	-39.43	≤-22.06	PASS
		2441	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-68.71	≤-25.44	PASS
			1000~26500	-5.44	-38.01	≤-25.44	PASS
		2480	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-65.12	≤-21.6	PASS
			1000~26500	-1.60	-36.97	≤-21.6	PASS



Test Graphs

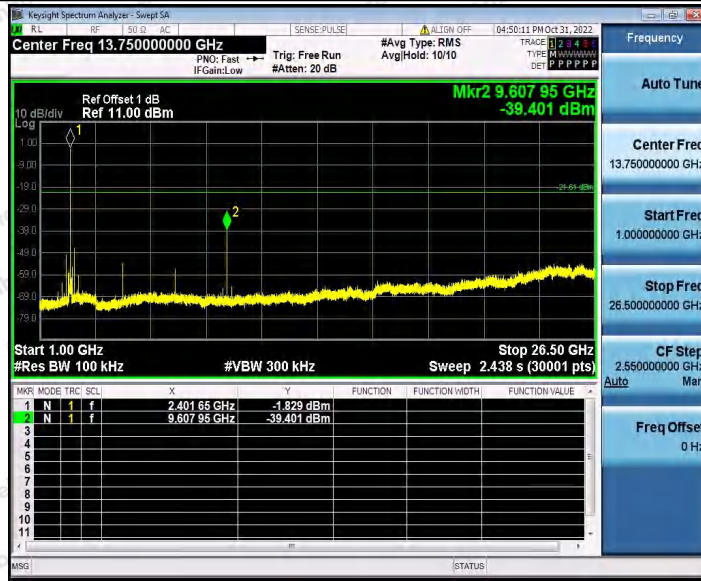


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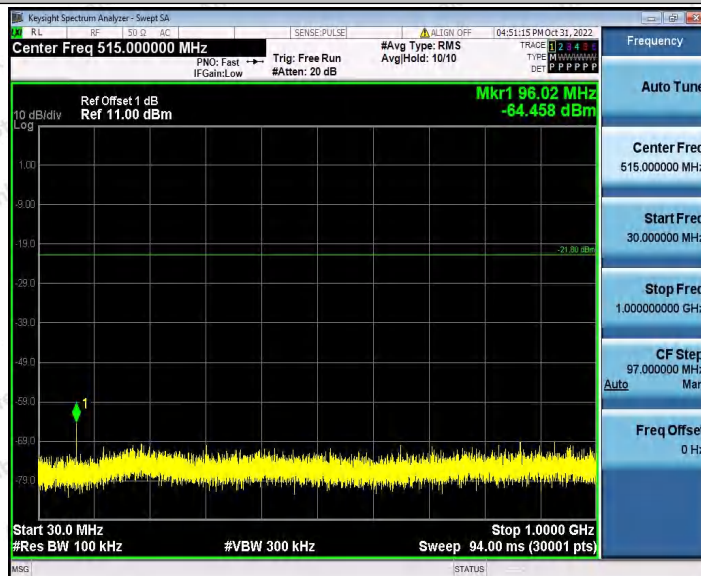




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

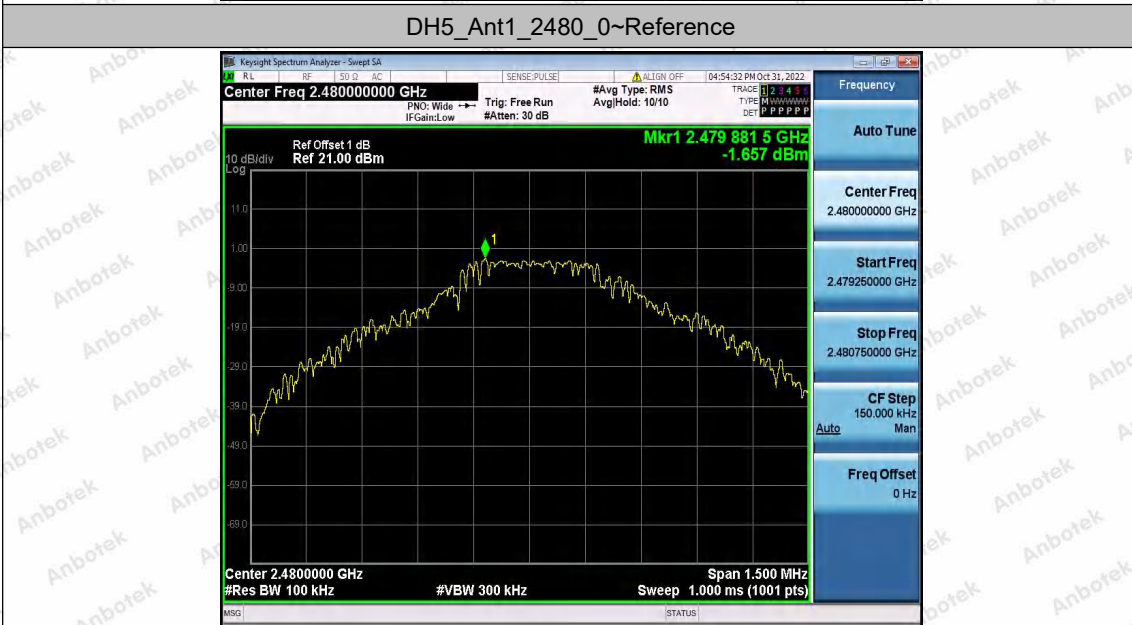
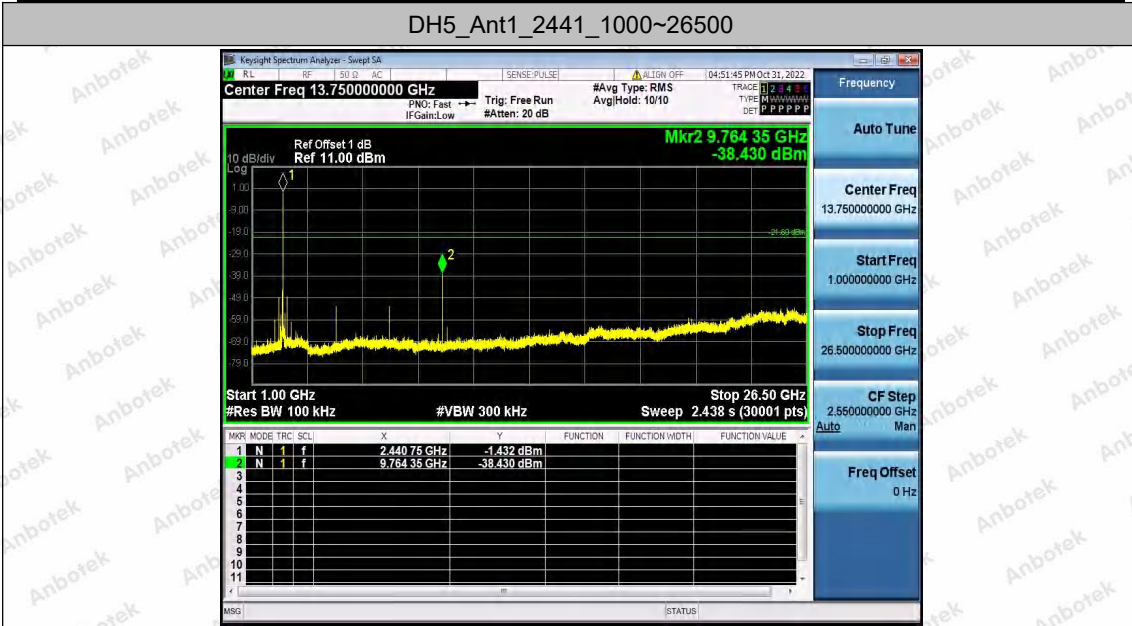


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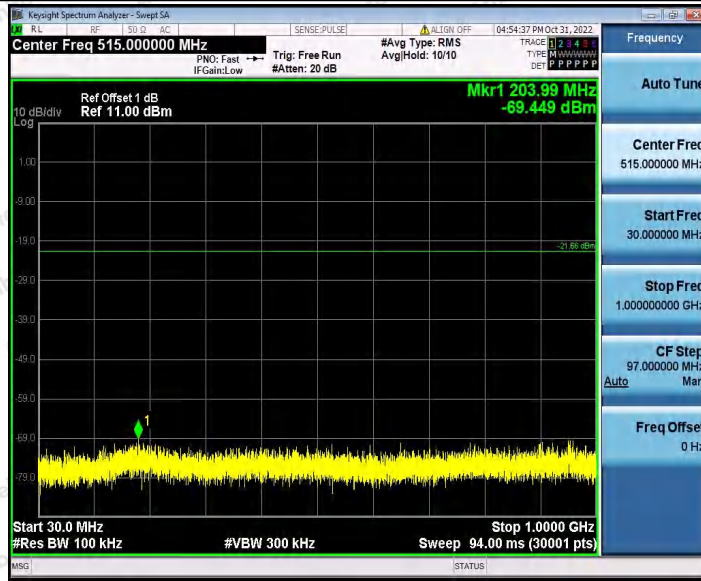
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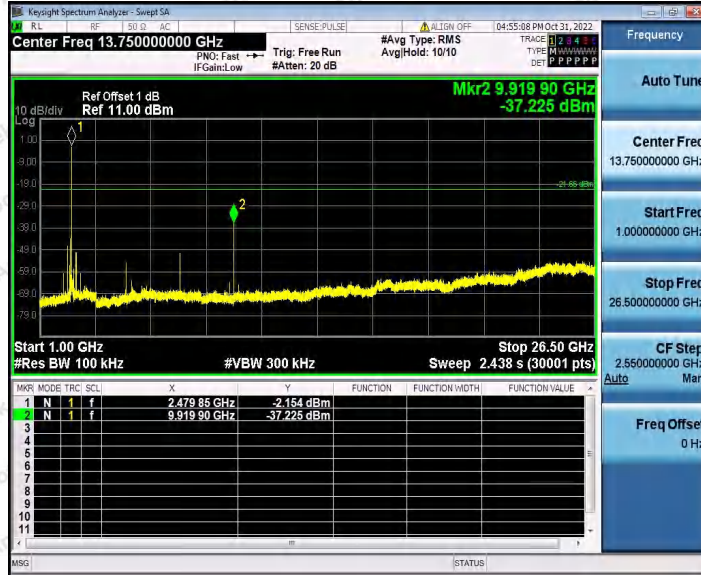
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

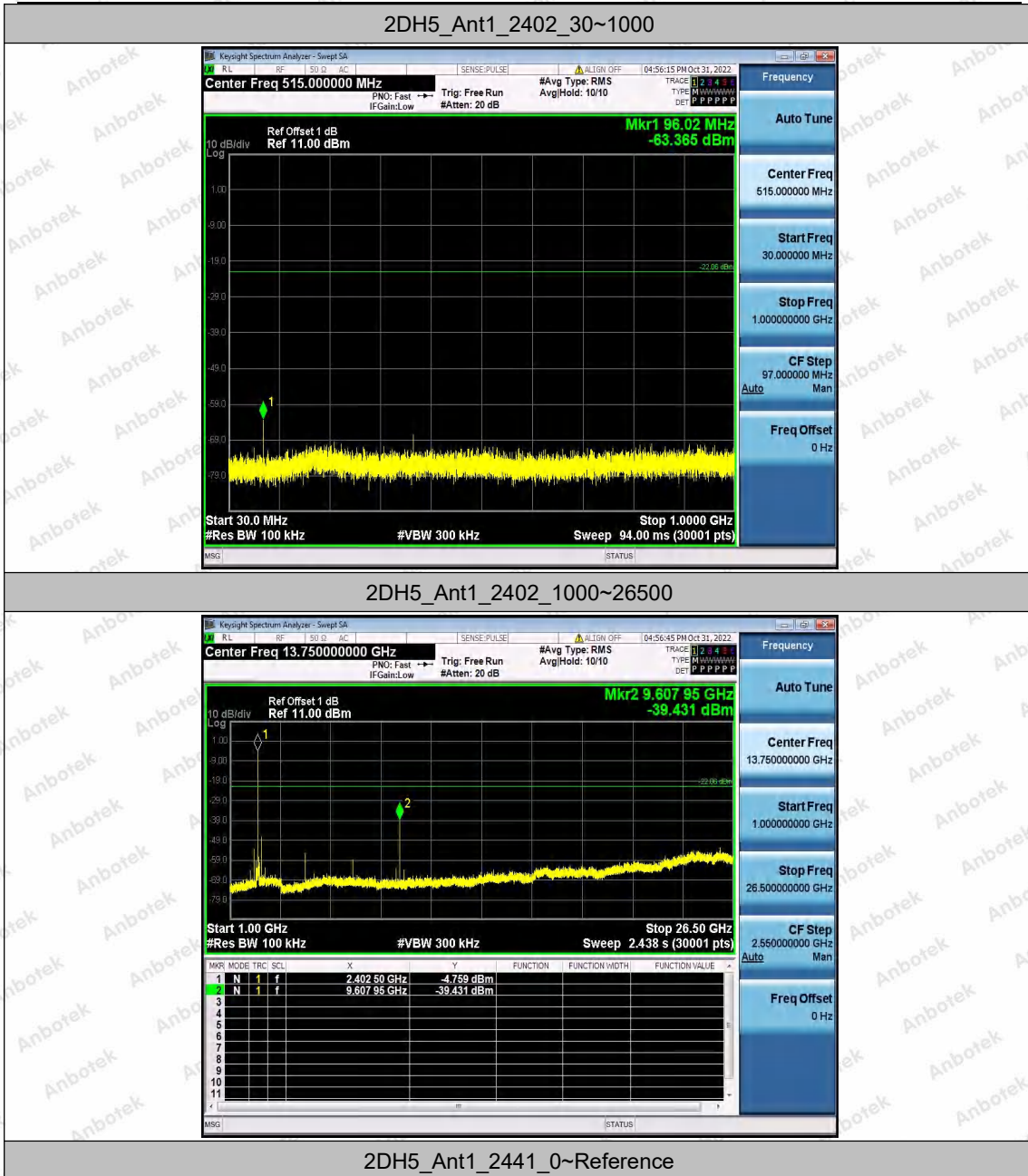


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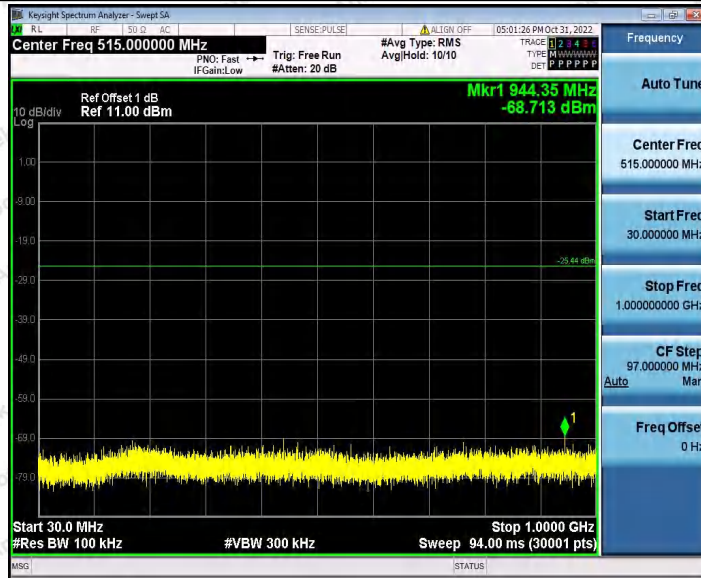
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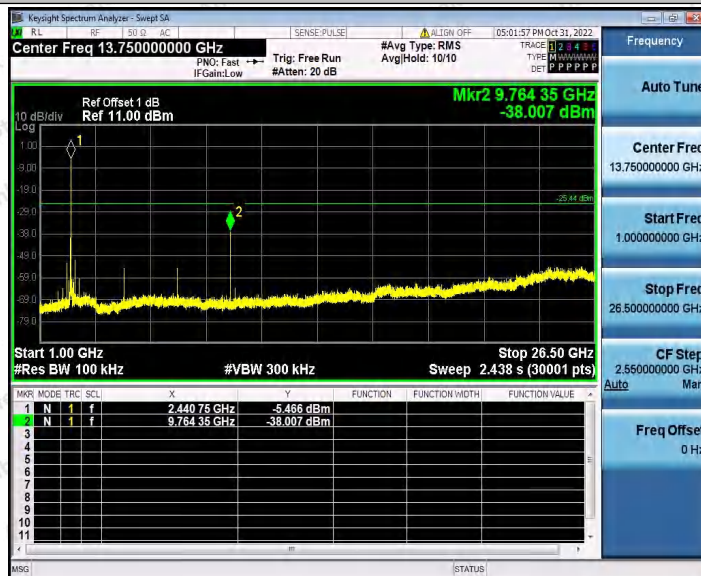




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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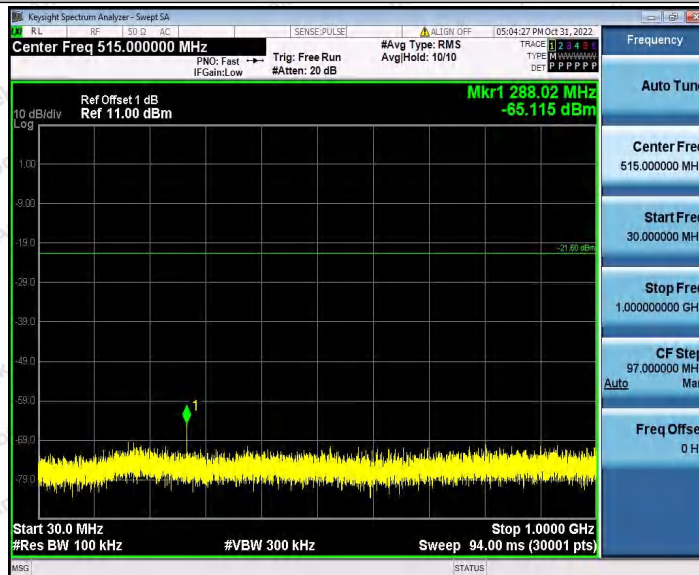
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



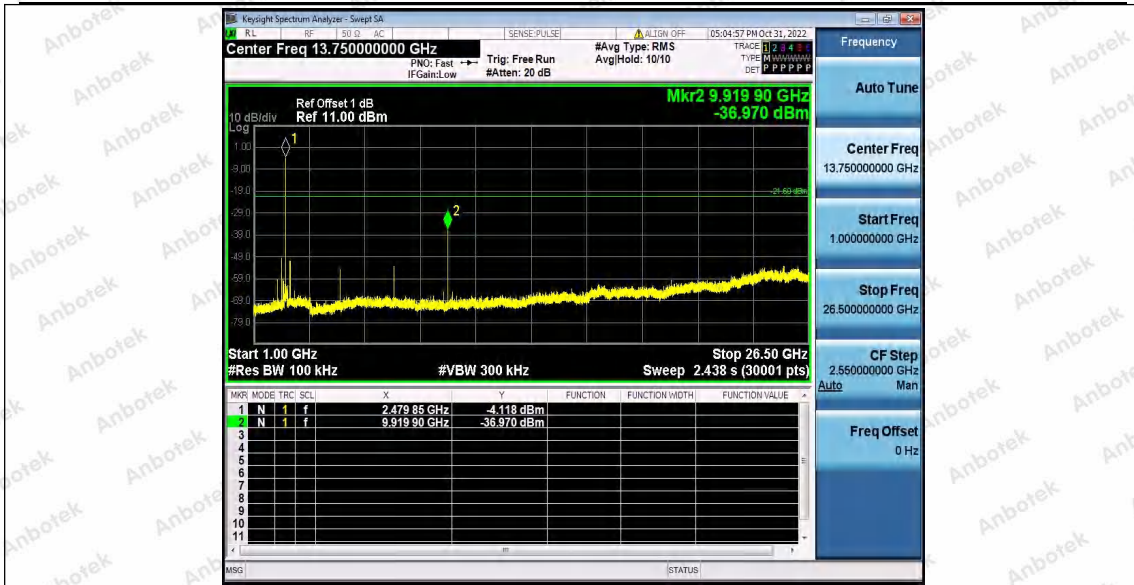
2DH5_Ant1_2480_1000~26500

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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.74	77.27	1.12
		2480	2.89	3.75	77.07	1.13

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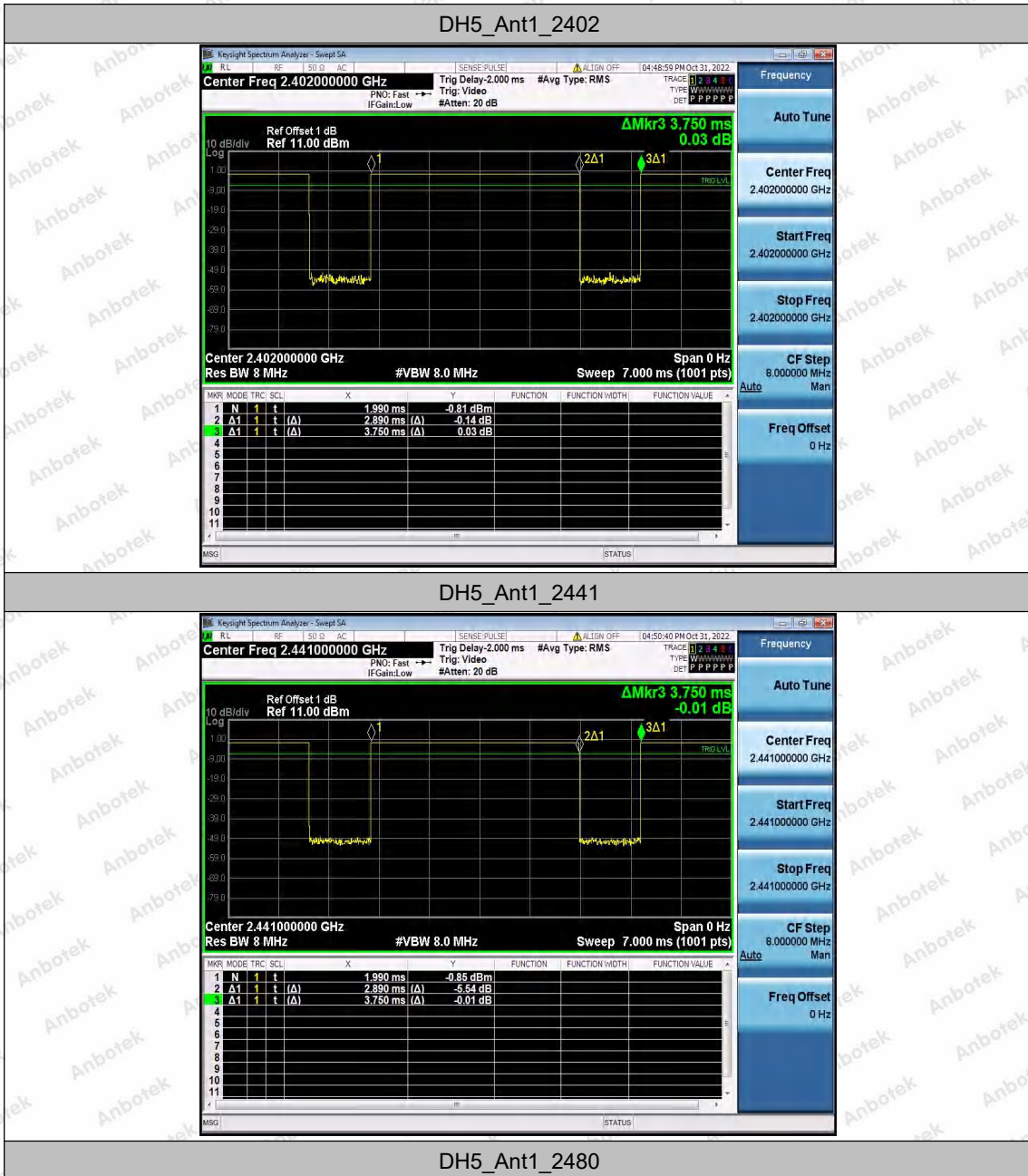
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Test Graphs

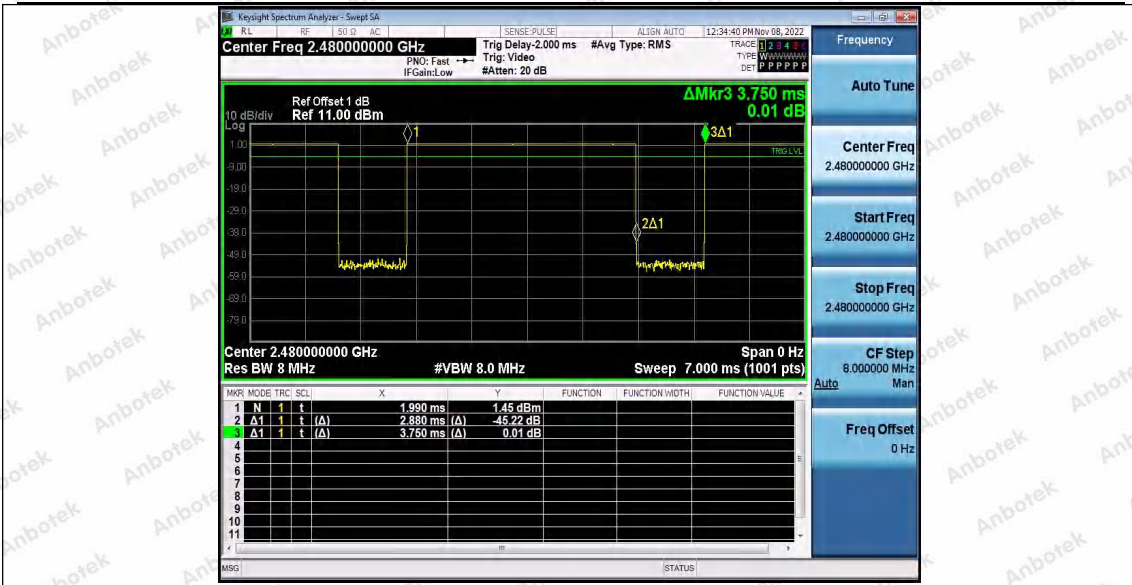


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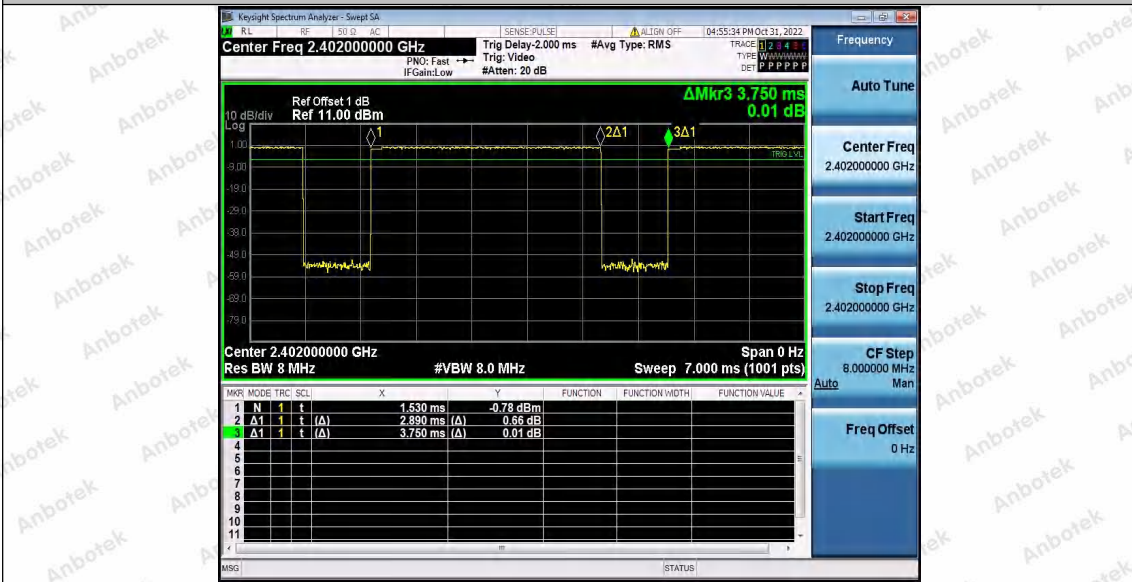
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2DH5_Ant1_2402



2DH5_Ant1_2441

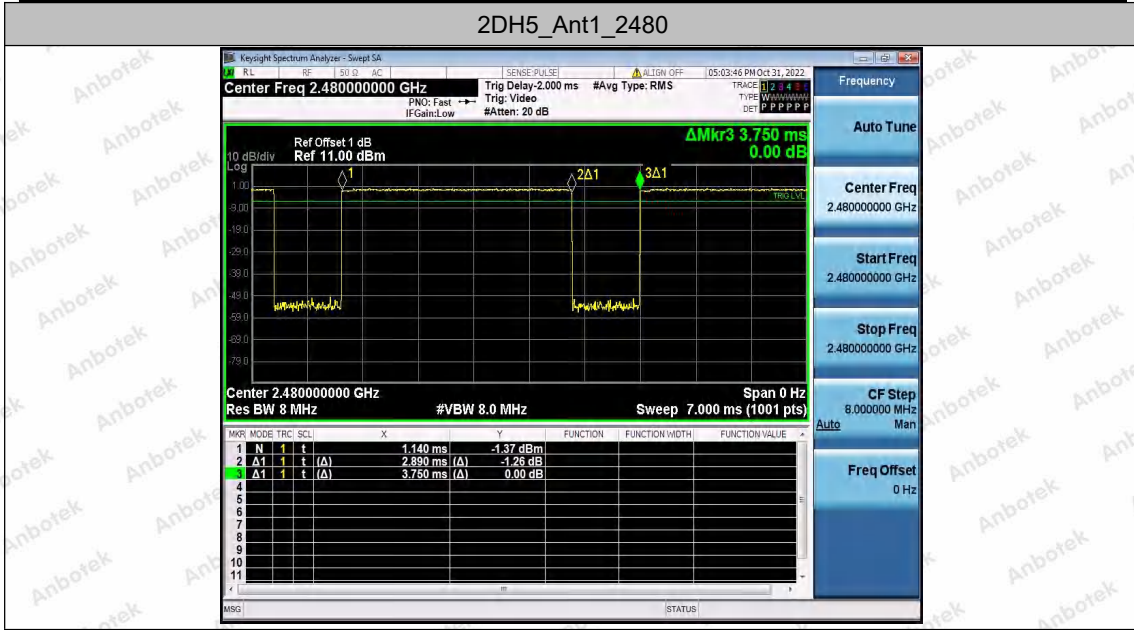


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