

Appendix Test Data

Report No.:	18220WC20236801	Test Sample No.:	1-2-2
Start Test Date:	2022.10.10	Finish Test Date:	2022.10.11
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.966	2401.526	2402.492
		2441	1.026	2440.472	2441.498
		2480	0.975	2479.514	2480.489
2DH5	Ant1	2402	1.290	2401.361	2402.651
		2441	1.320	2440.334	2441.654
		2480	1.326	2479.331	2480.657



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480





2DH5_Ant1_2402



2DH5_Ant1_2441



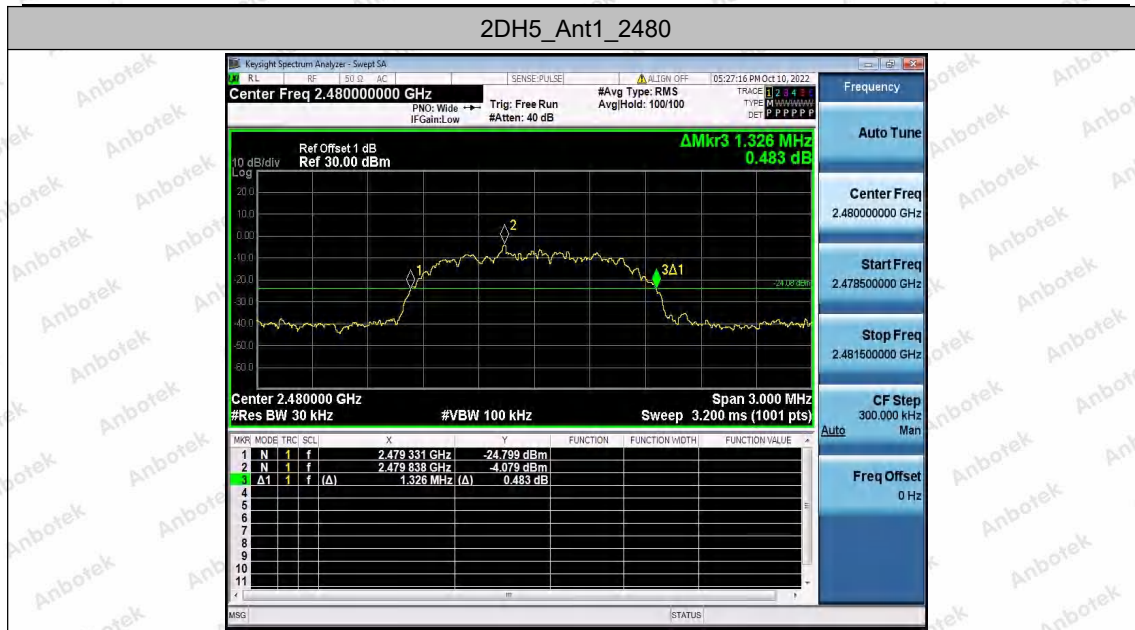
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.91038	2401.5482	2402.4586
		2441	0.88718	2440.5572	2441.4444
		2480	0.91075	2479.5418	2480.4526
2DH5	Ant1	2402	1.1818	2401.4060	2402.5878
		2441	1.2022	2440.3955	2441.5977
		2480	1.2050	2479.3962	2480.6012

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Test Graphs



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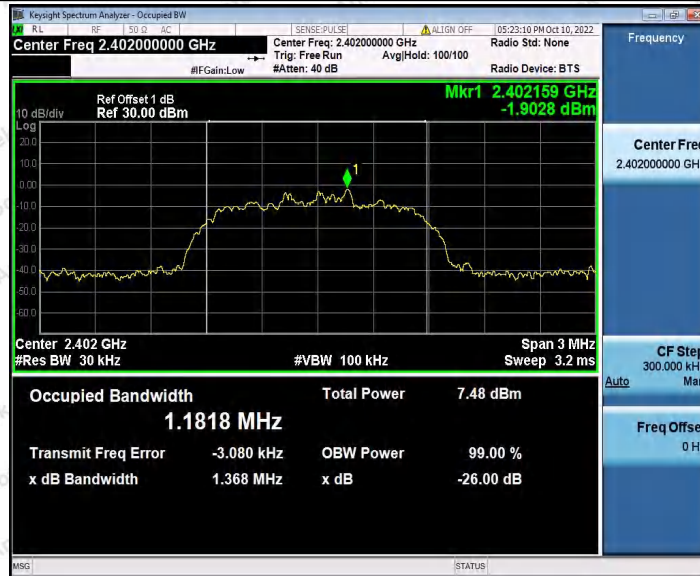


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2DH5_Ant1_2402



2DH5_Ant1_2441



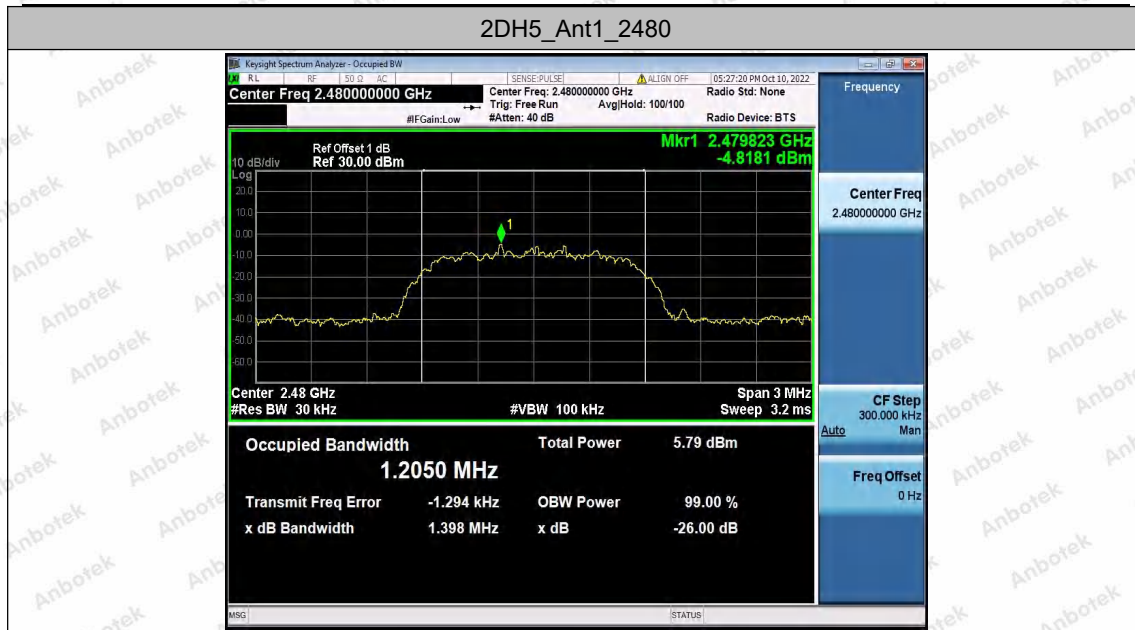
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.58	≤30	PASS
		2441	2.13	≤30	PASS
		2480	1.45	≤30	PASS
2DH5	Ant1	2402	1.78	≤20.97	PASS
		2441	1.49	≤20.97	PASS
		2480	0.84	≤20.97	PASS



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441



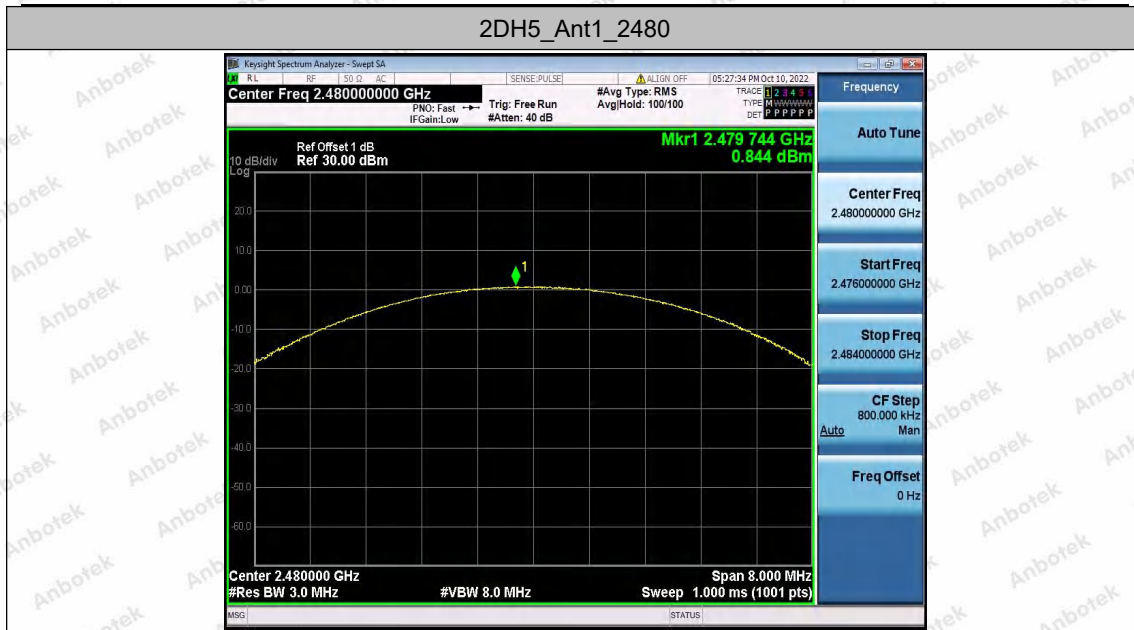
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.302	≥ 1.026	PASS
2DH5	Ant1	Hop	1.324	≥ 0.884	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	0.372	313	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.629	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.877	116	0.334	≤0.4	PASS
2DH1	Ant1	Hop	0.380	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.633	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.879	105	0.302	≤0.4	PASS

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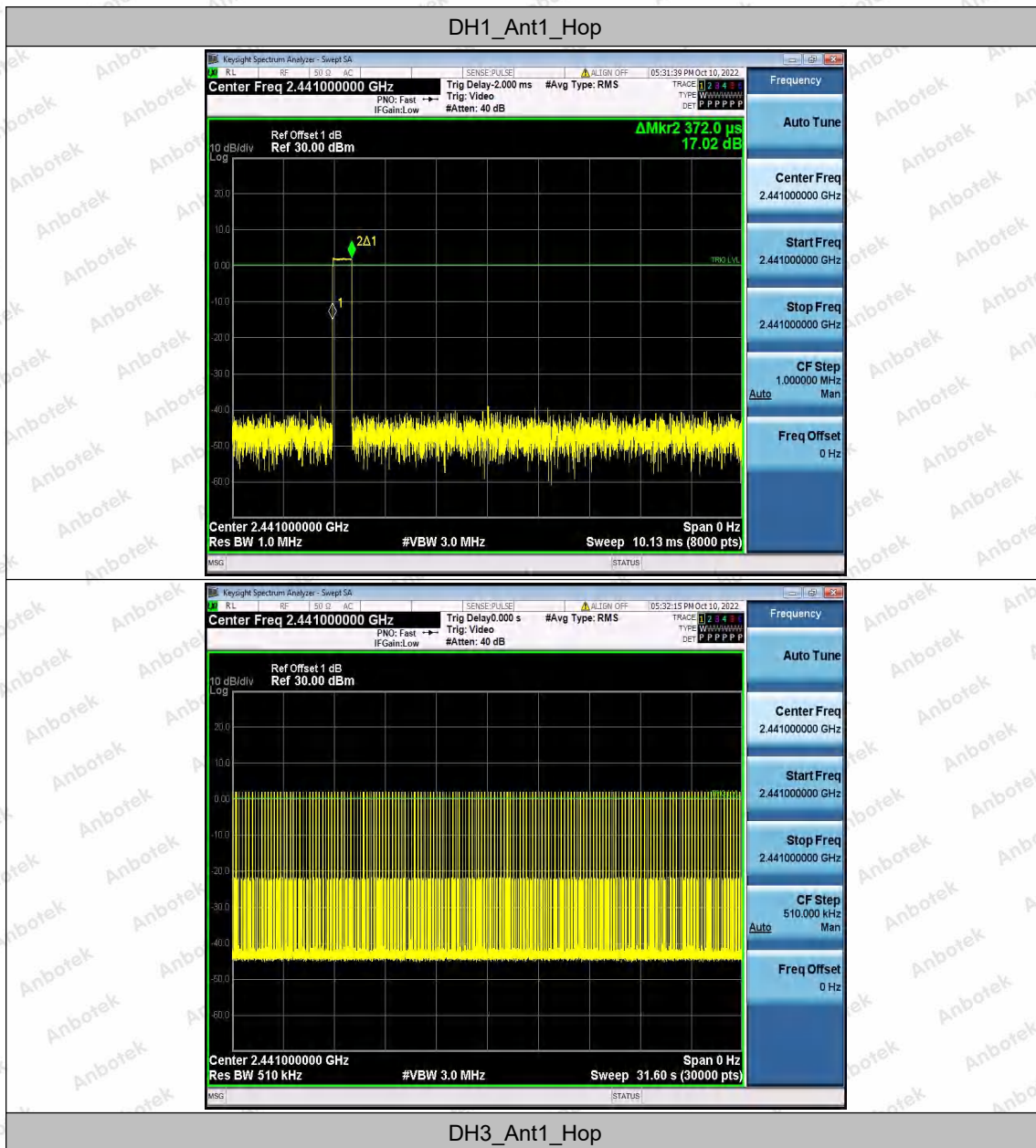
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Test Graphs



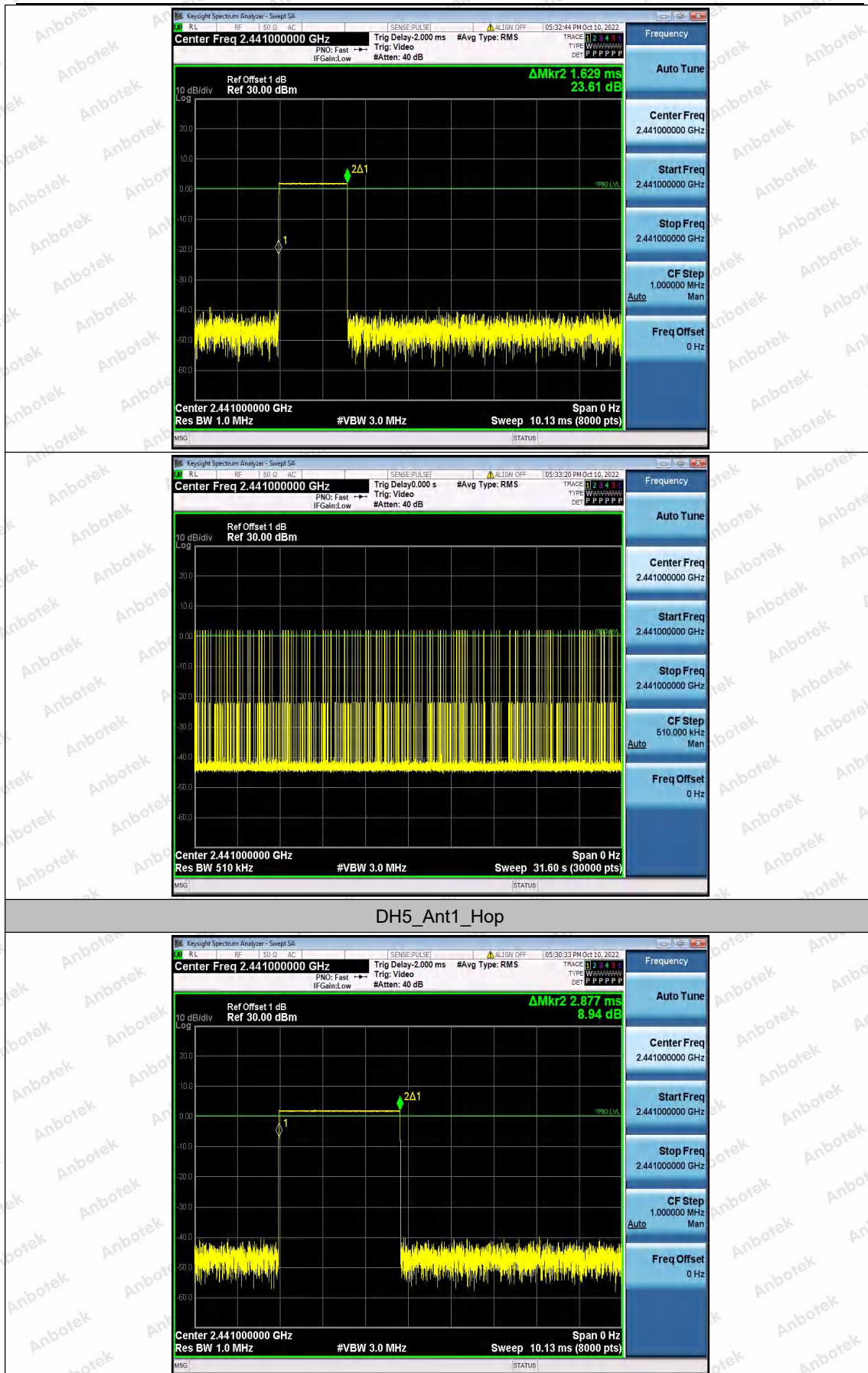
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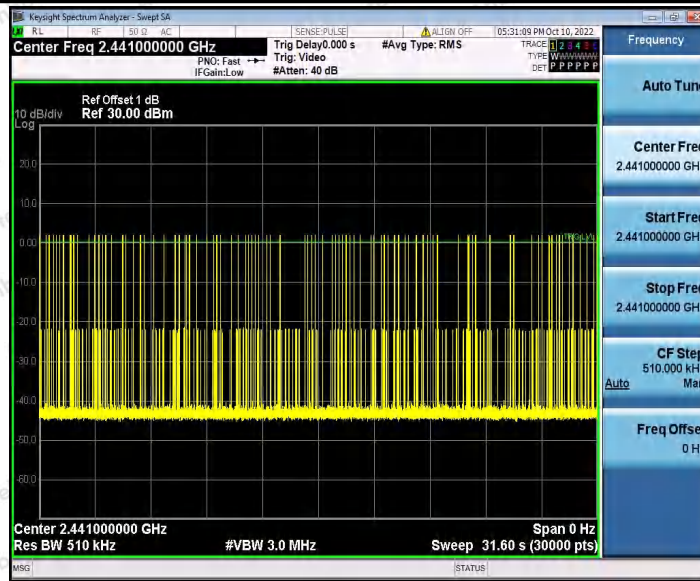
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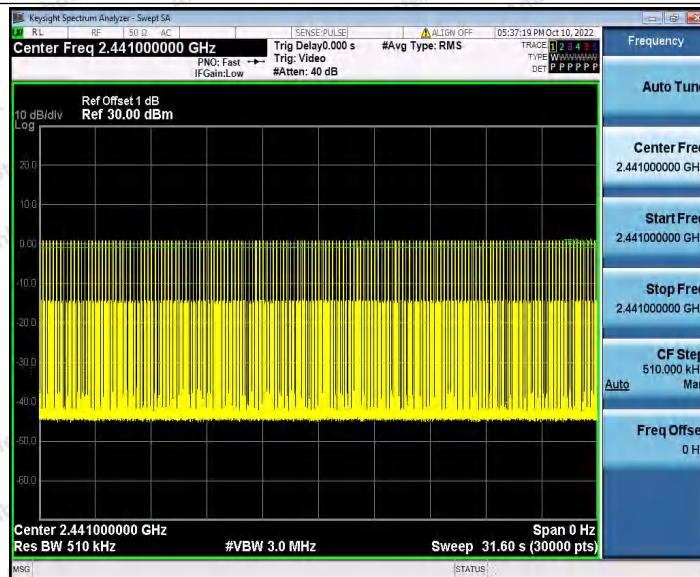
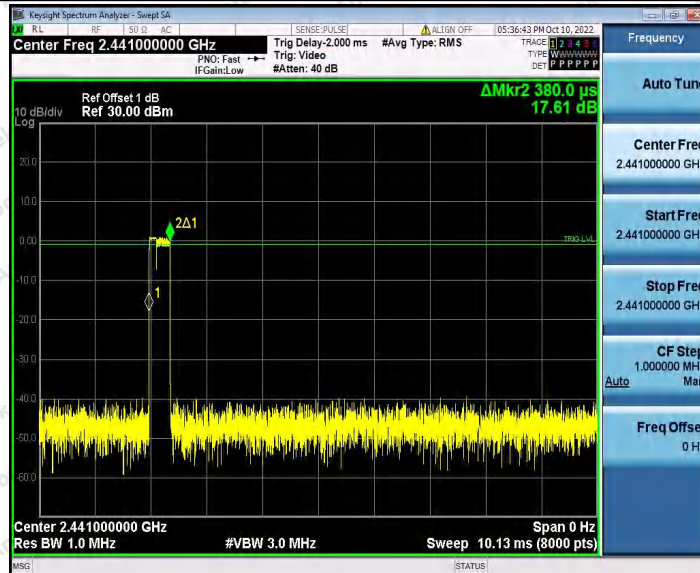


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

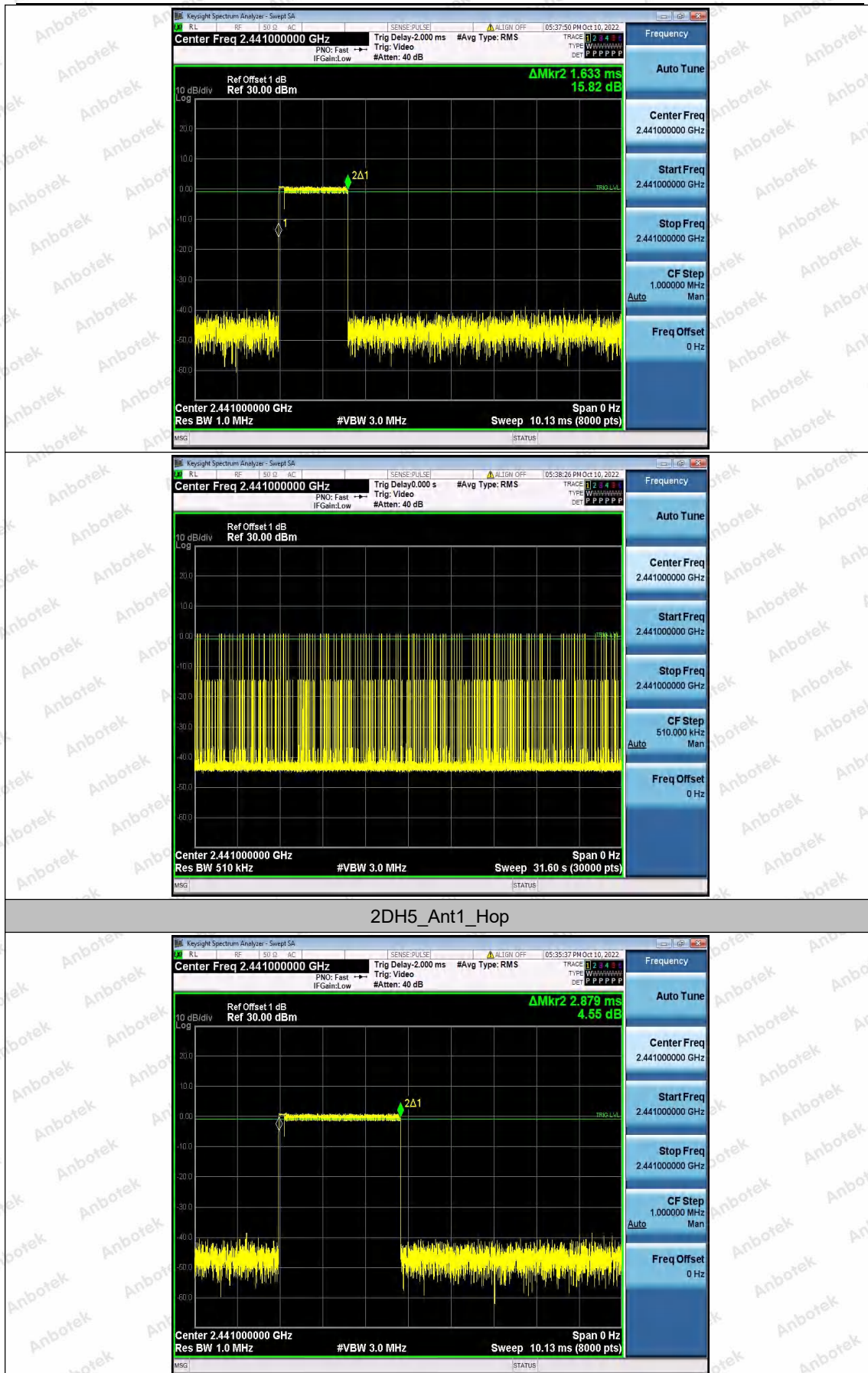
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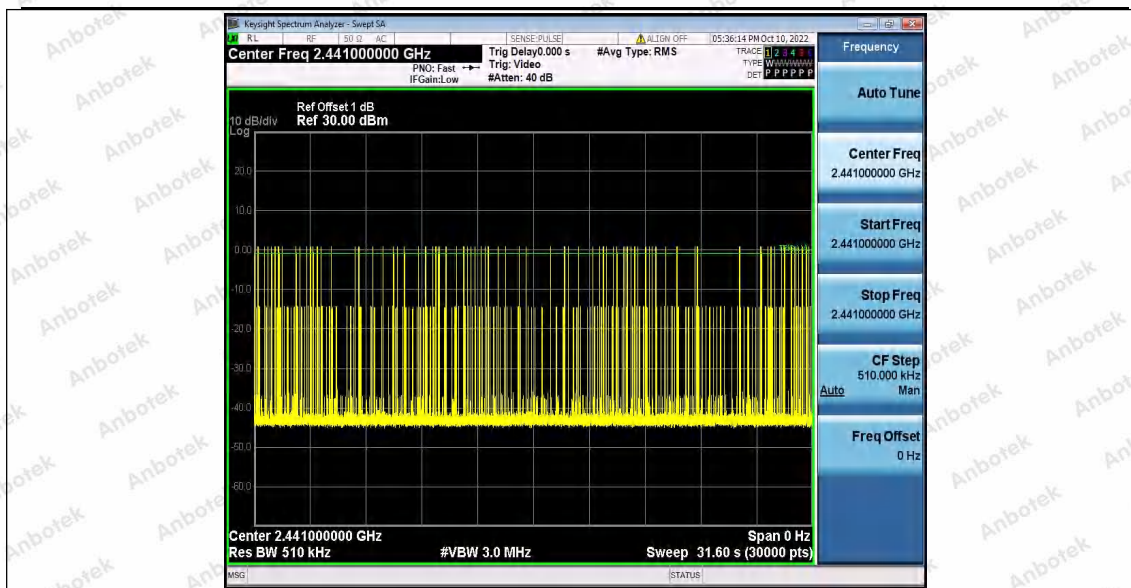
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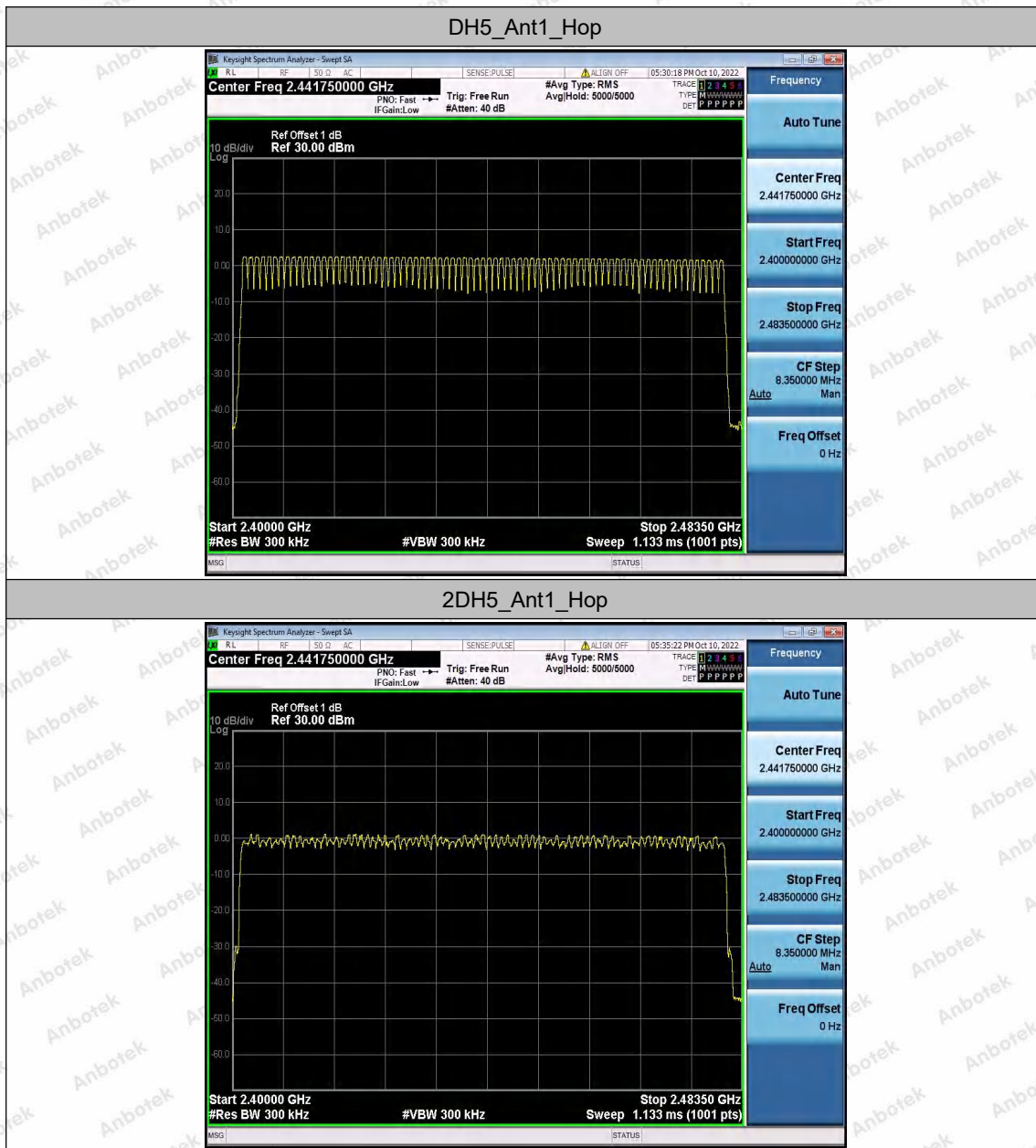
Appendix F: Number of hopping channels

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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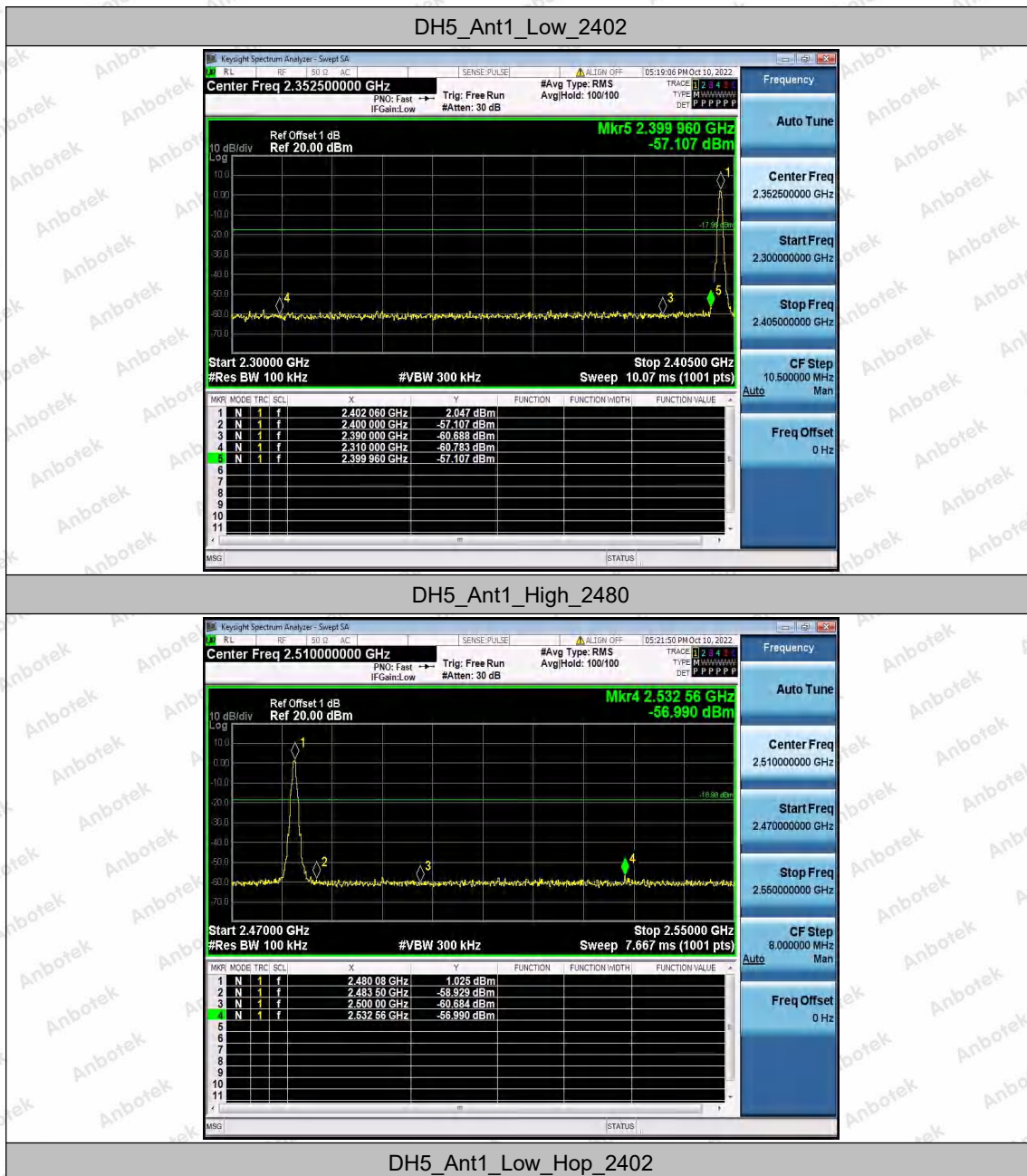
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.05	-57.11	≤-17.95	PASS
		High	2480	1.03	-56.99	≤-18.98	PASS
		Low	Hop_2402	1.65	-57.41	≤-18.35	PASS
		High	Hop_2480	1.35	-57.31	≤-18.65	PASS
2DH5	Ant1	Low	2402	-1.01	-56.39	≤-21.01	PASS
		High	2480	0.19	-56.97	≤-19.81	PASS
		Low	Hop_2402	-2.49	-56.37	≤-22.49	PASS
		High	Hop_2480	-0.38	-56.49	≤-20.38	PASS



Test Graphs



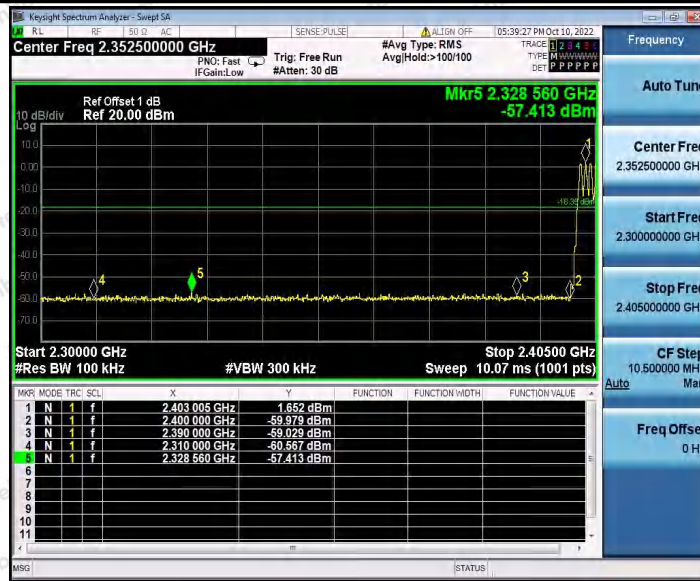
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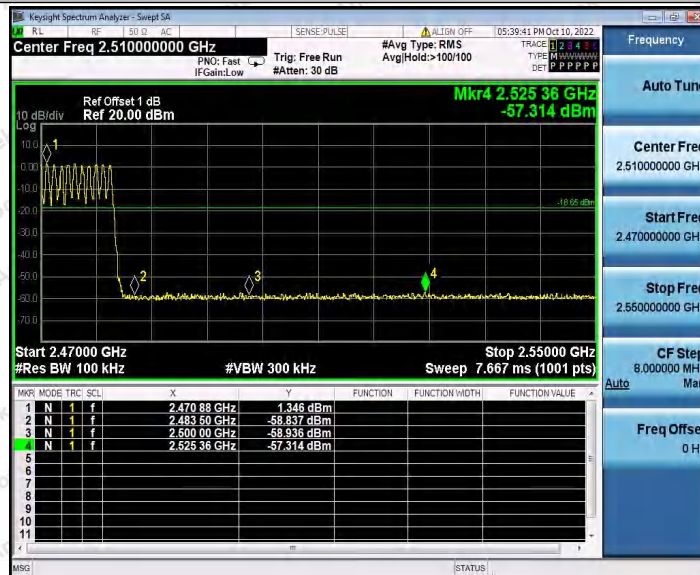


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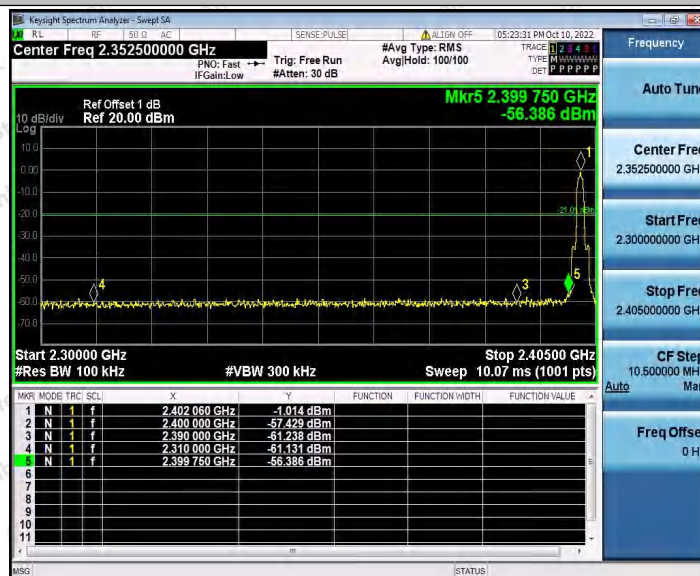




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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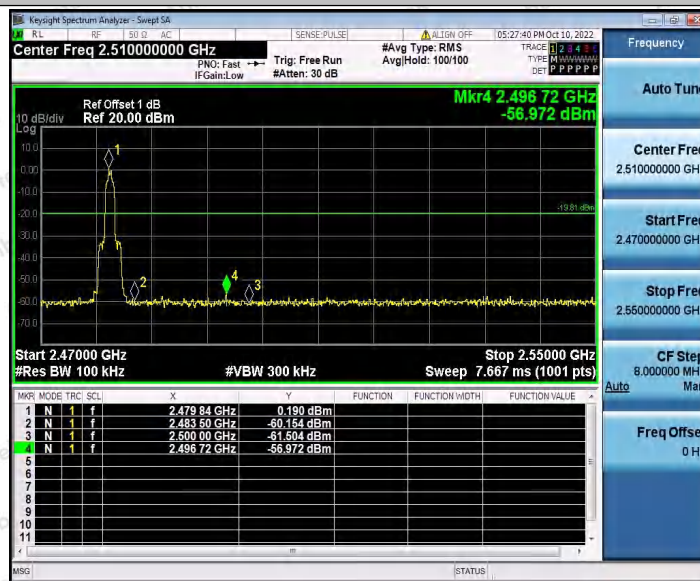
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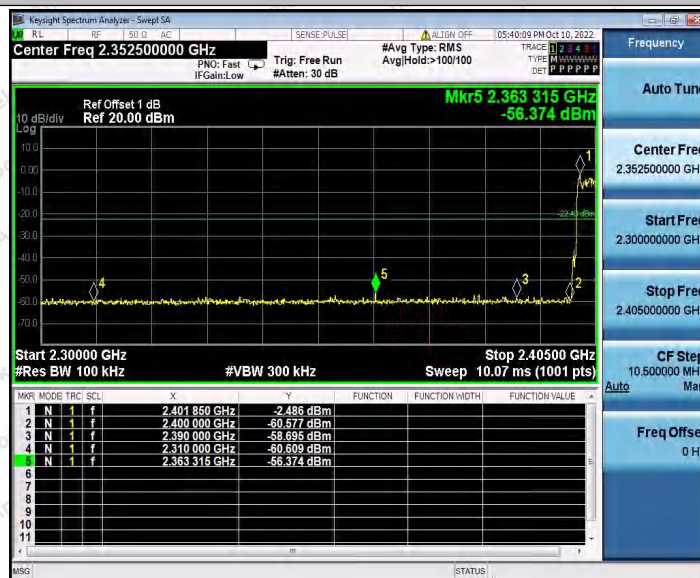
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

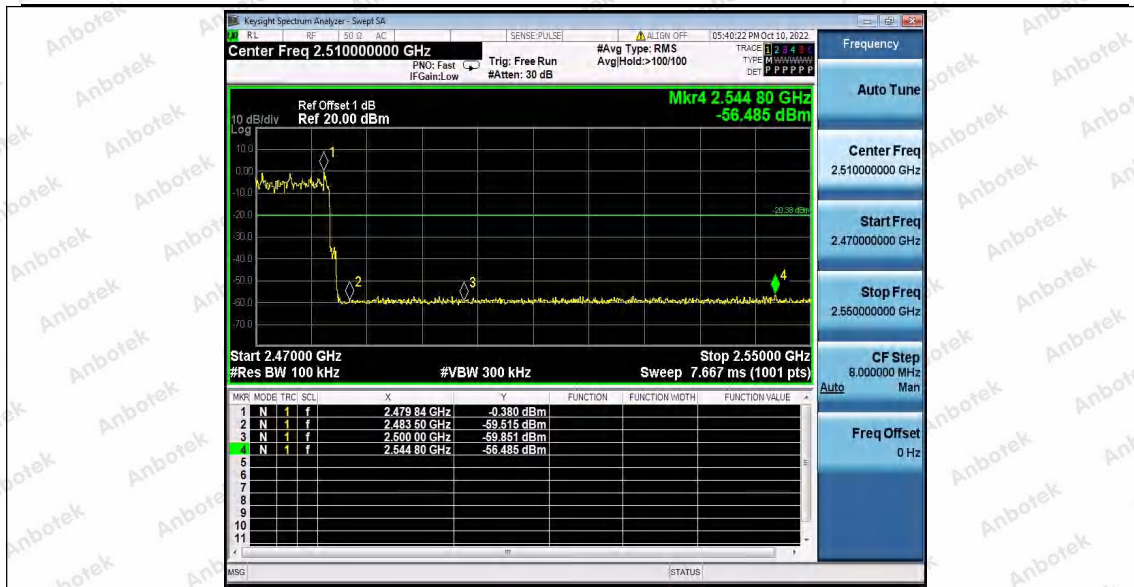
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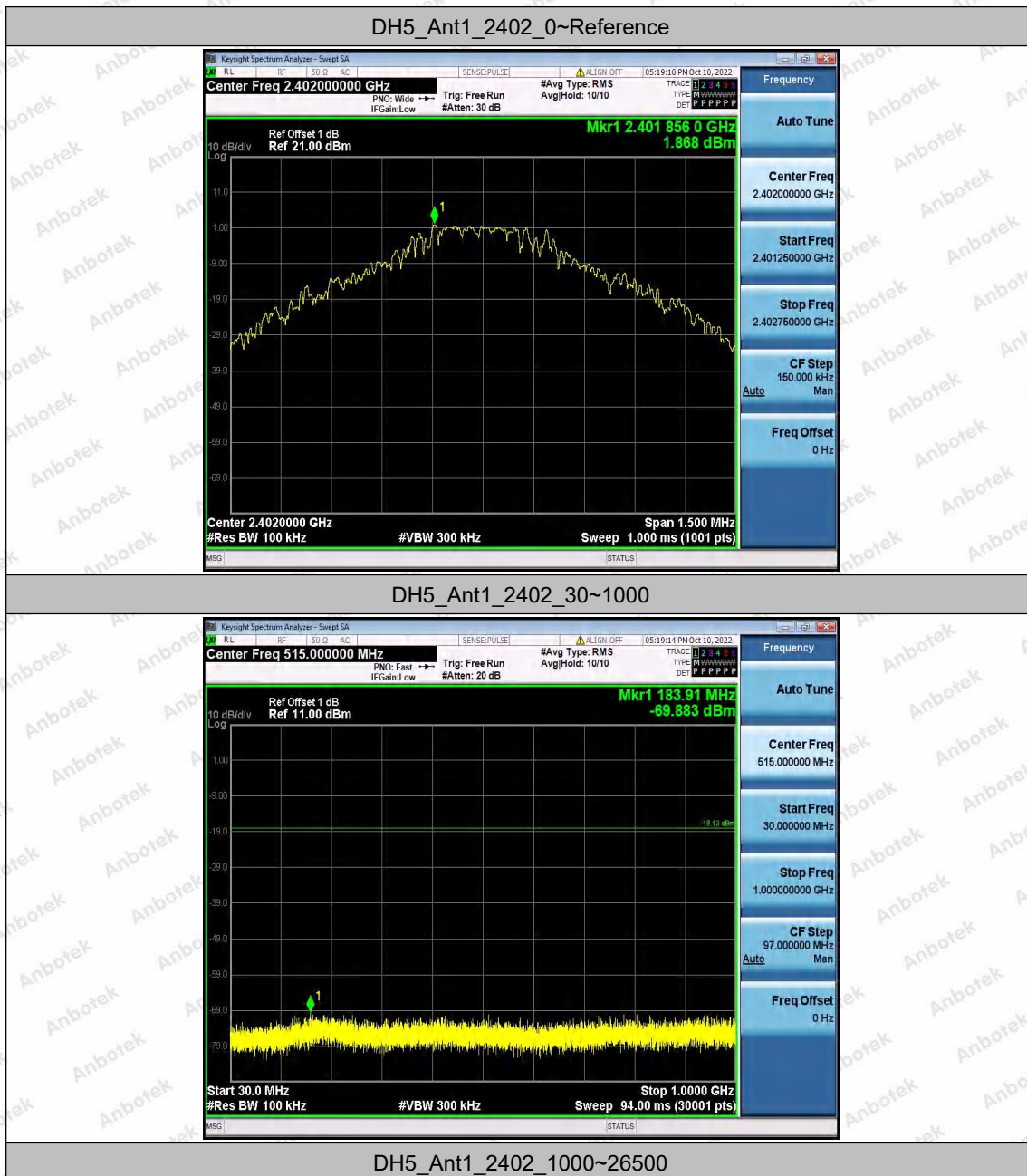
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-69.88	≤-18.13	PASS
			1000~26500	1.87	-53.44	≤-18.13	PASS
		2441	Reference	1.05	1.05	---	PASS
			30~1000	1.05	-60.3	≤-18.95	PASS
			1000~26500	1.05	-53.54	≤-18.95	PASS
		2480	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-69.6	≤-19.45	PASS
			1000~26500	0.55	-53.61	≤-19.45	PASS
2DH5	Ant1	2402	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-67.91	≤-19.45	PASS
			1000~26500	0.55	-53.97	≤-19.45	PASS
		2441	Reference	-2.57	-2.57	---	PASS
			30~1000	-2.57	-69.4	≤-22.57	PASS
			1000~26500	-2.57	-52.2	≤-22.57	PASS
		2480	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-69.14	≤-20.75	PASS
			1000~26500	-0.75	-53.32	≤-20.75	PASS



Test Graphs



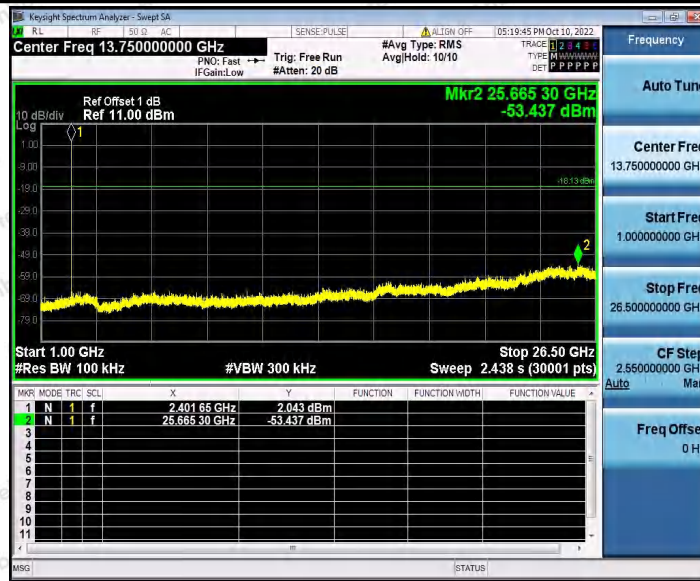
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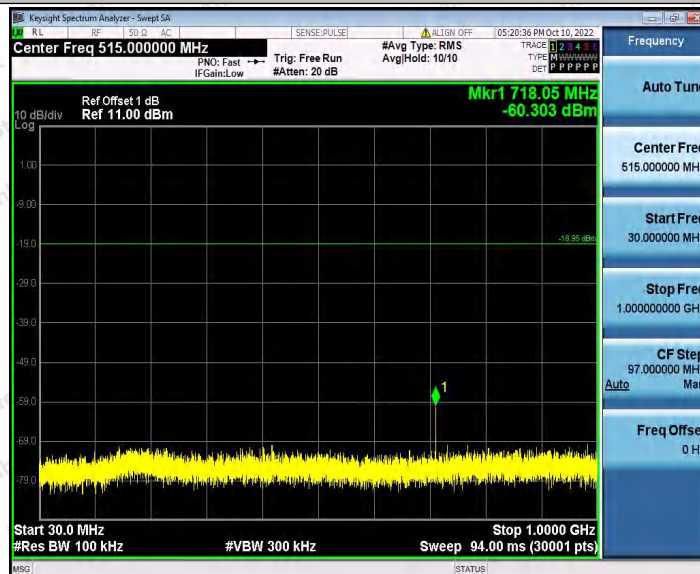




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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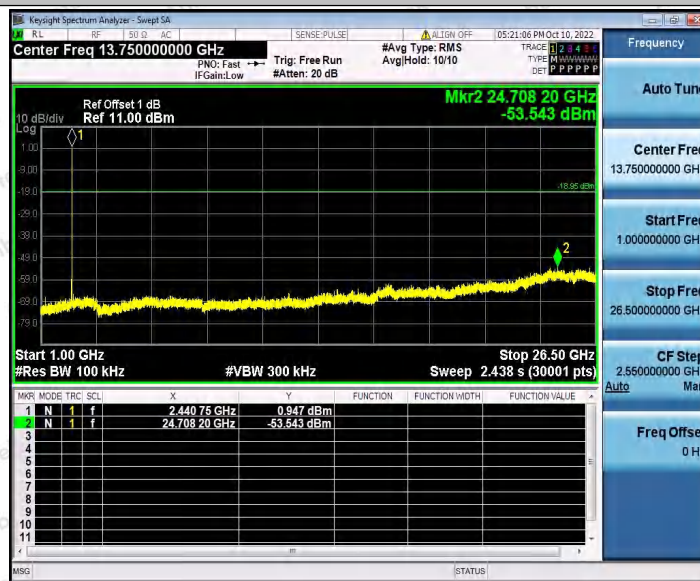
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

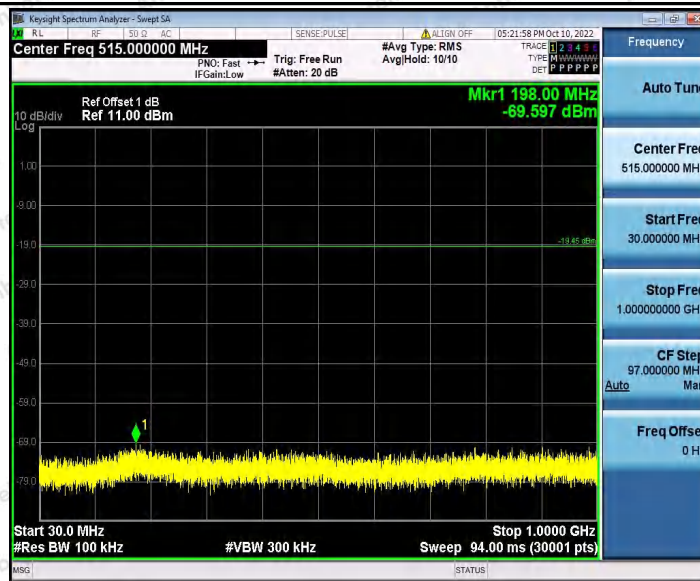
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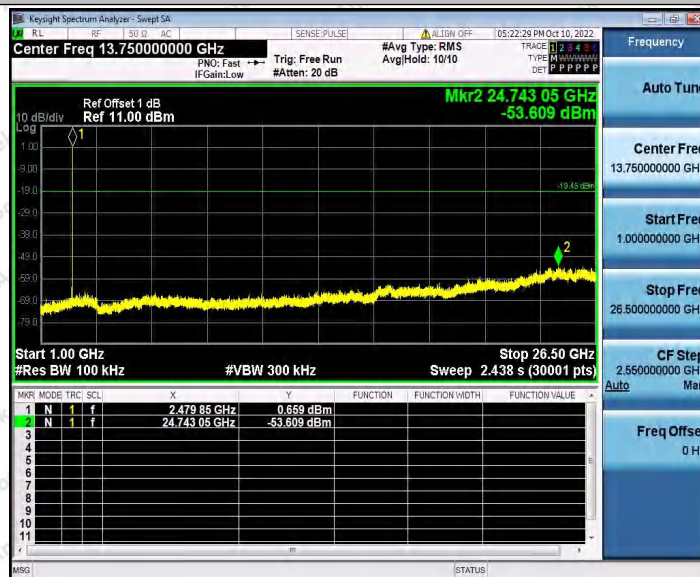


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



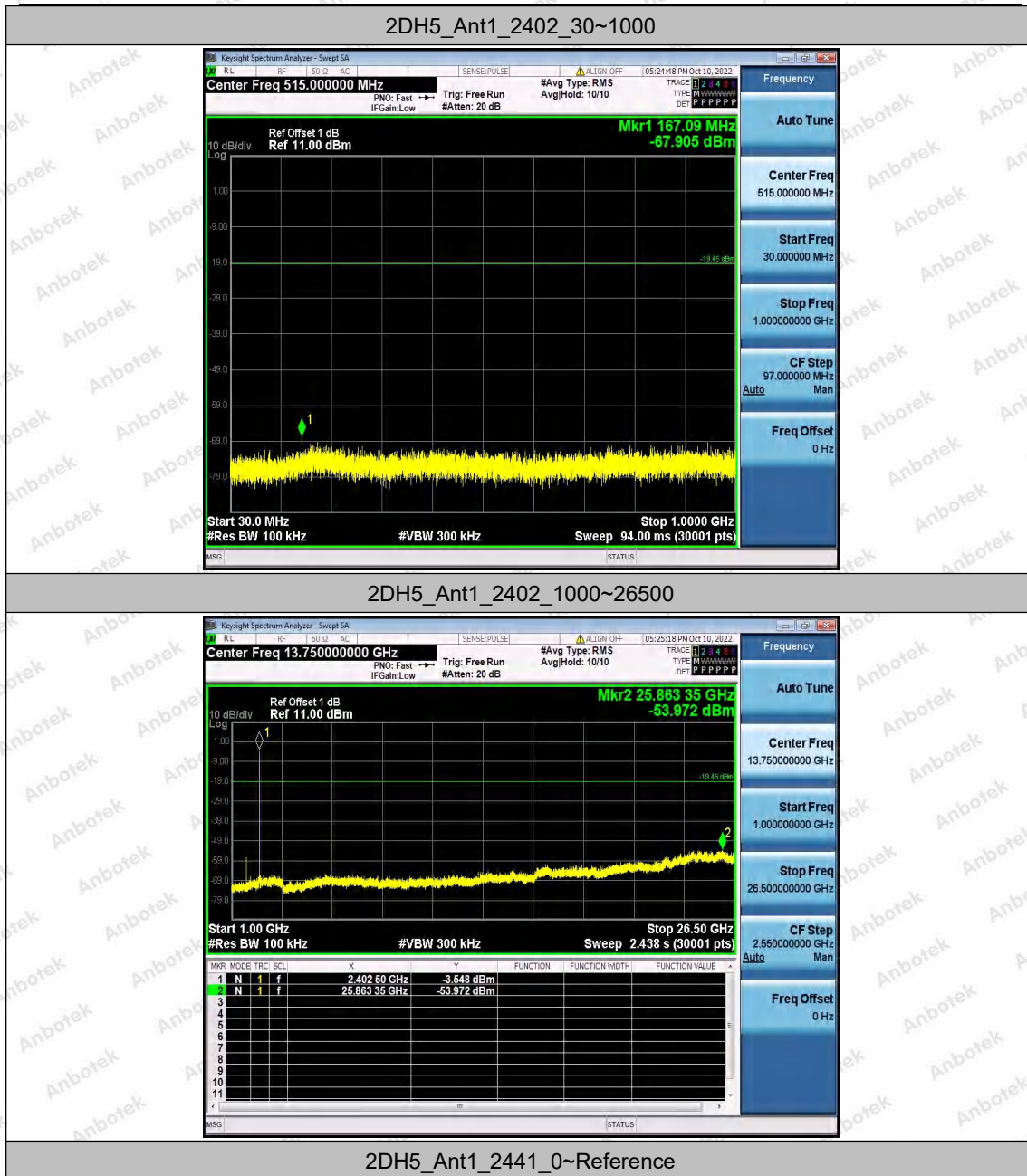
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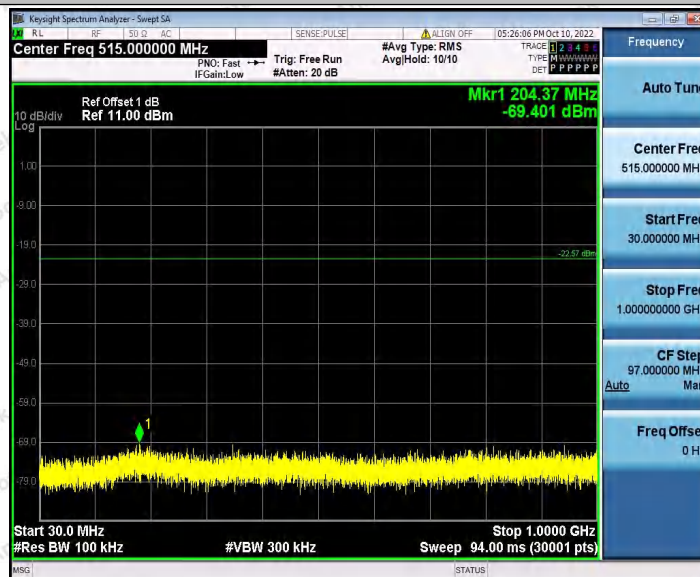


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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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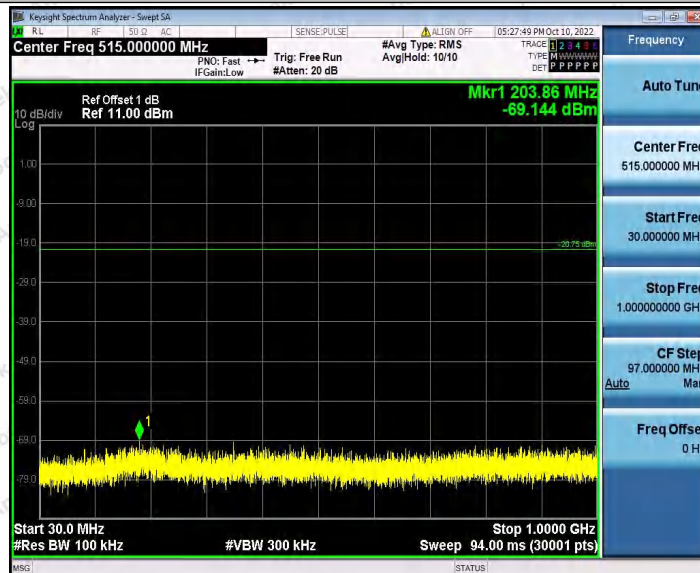
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

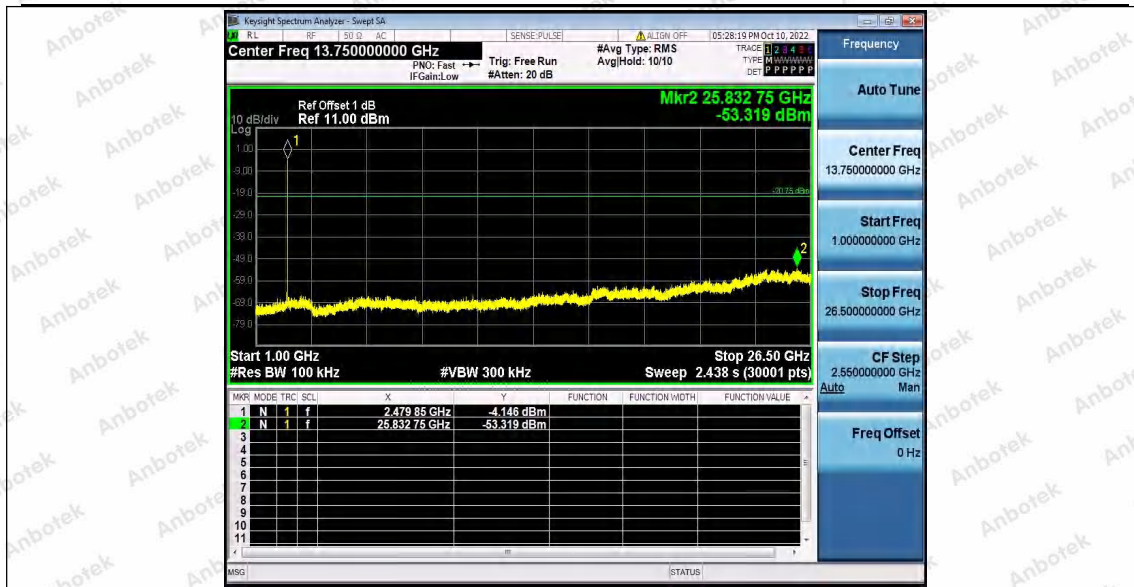
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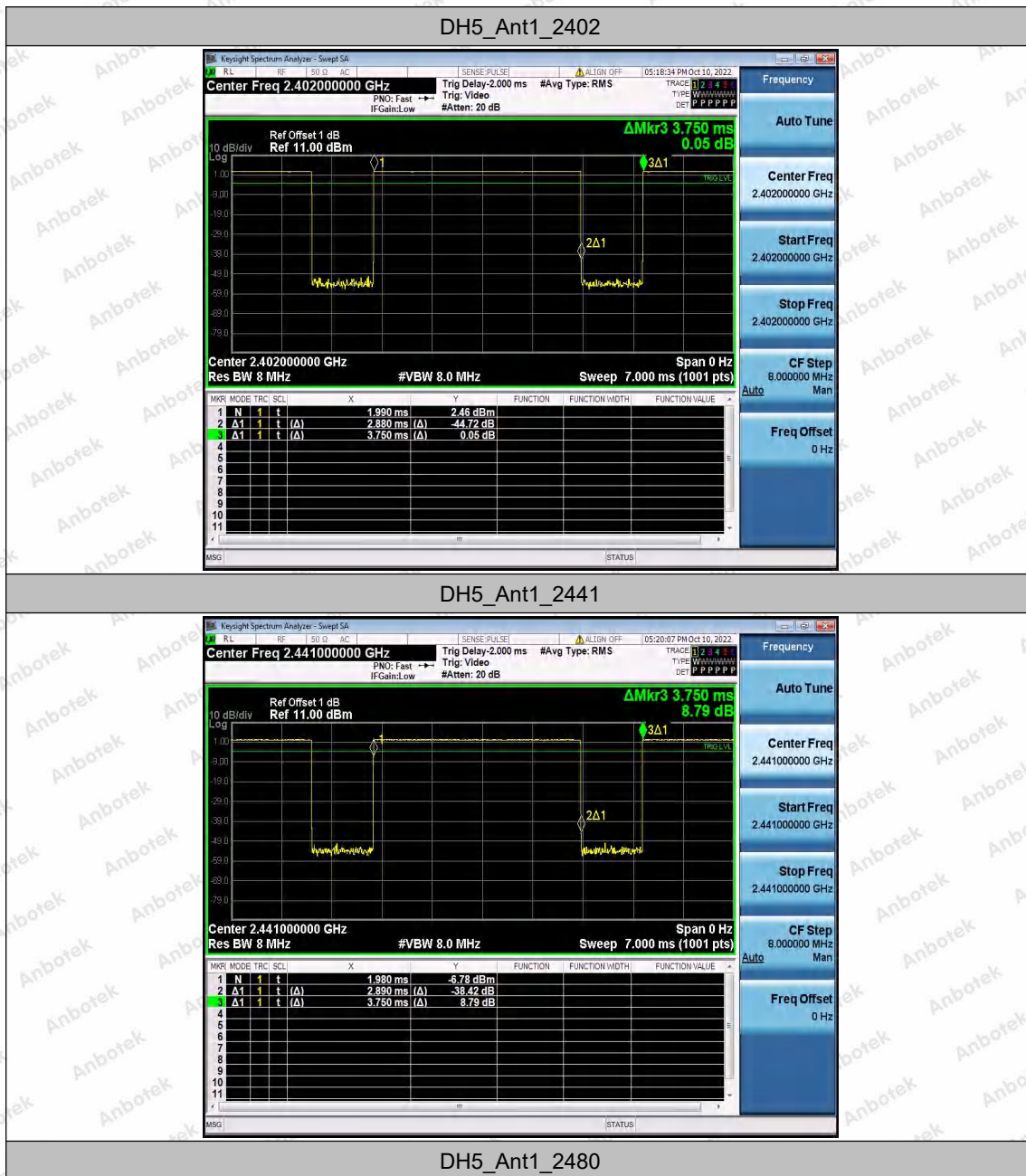
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.89	3.76	76.86	1.14
		2480	2.89	3.75	77.07	1.13



Test Graphs



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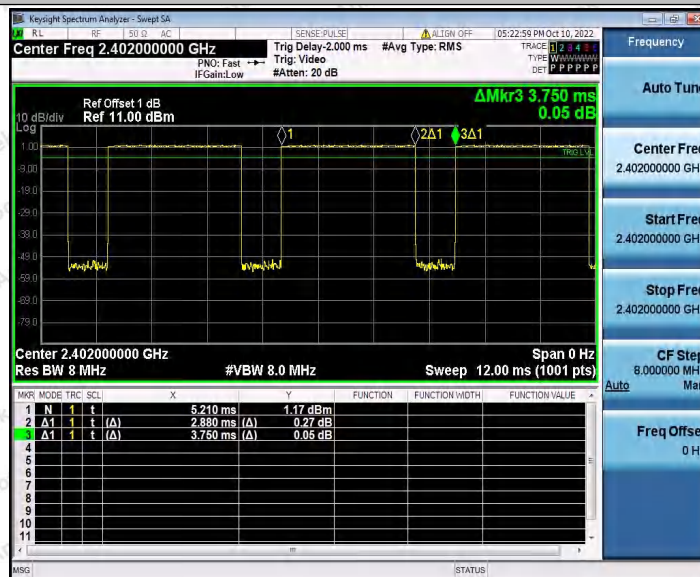


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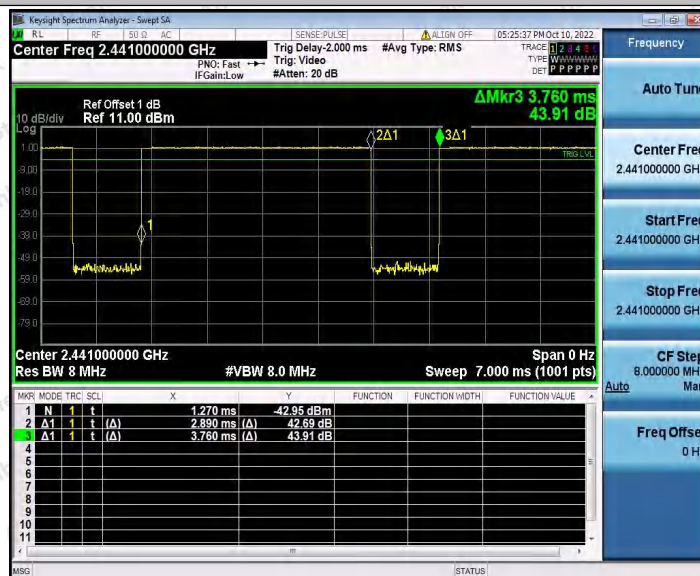




2DH5_Ant1_2402



2DH5_Ant1_2441



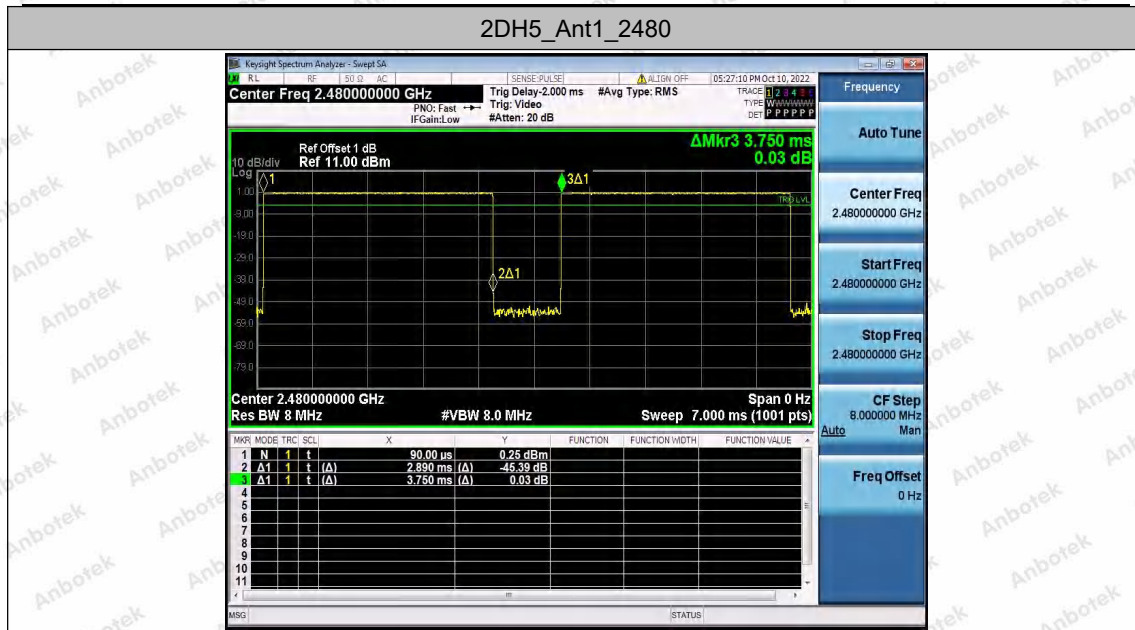
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