

Appendix: Bluetooth Classic

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Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.864	2401.541	2402.405	---	PASS
		2441	0.936	2440.541	2441.477	---	PASS
		2480	0.906	2479.547	2480.453	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.323	2440.337	2441.660	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS
3DH5	Ant1	2402	1.302	2401.346	2402.648	---	PASS
		2441	1.305	2440.349	2441.654	---	PASS
		2480	1.311	2479.328	2480.639	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



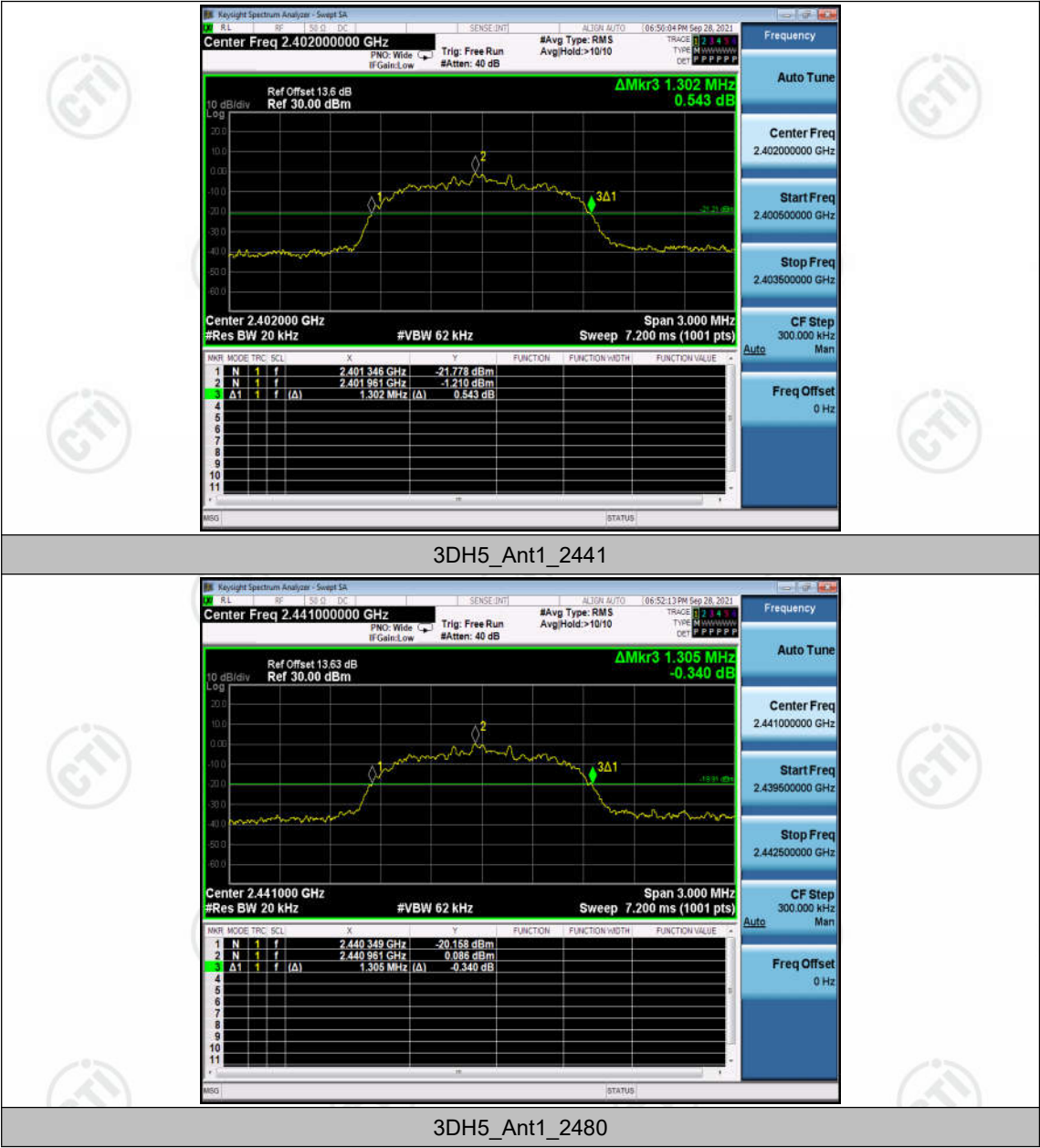
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402





Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.81201	2401.588	2402.400	---	PASS
		2441	0.85592	2440.578	2441.434	---	PASS
		2480	0.83272	2479.570	2480.403	---	PASS
2DH5	Ant1	2402	1.1650	2401.416	2402.581	---	PASS
		2441	1.1793	2440.410	2441.589	---	PASS
		2480	1.1716	2479.411	2480.583	---	PASS
3DH5	Ant1	2402	1.1777	2401.409	2402.587	---	PASS
		2441	1.1823	2440.405	2441.587	---	PASS
		2480	1.1784	2479.407	2480.586	---	PASS

Test Graphs

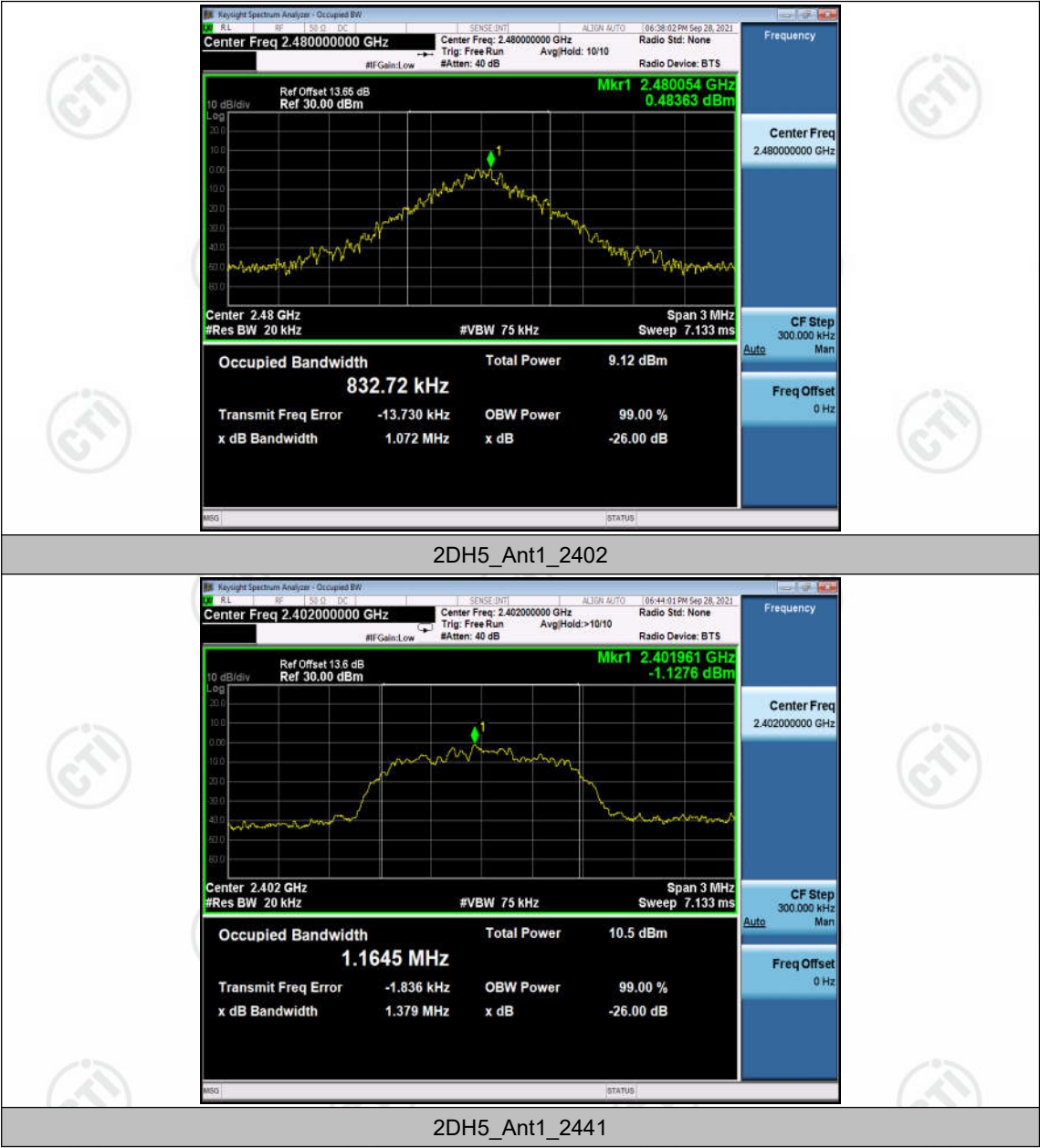
DH5_Ant1_2402

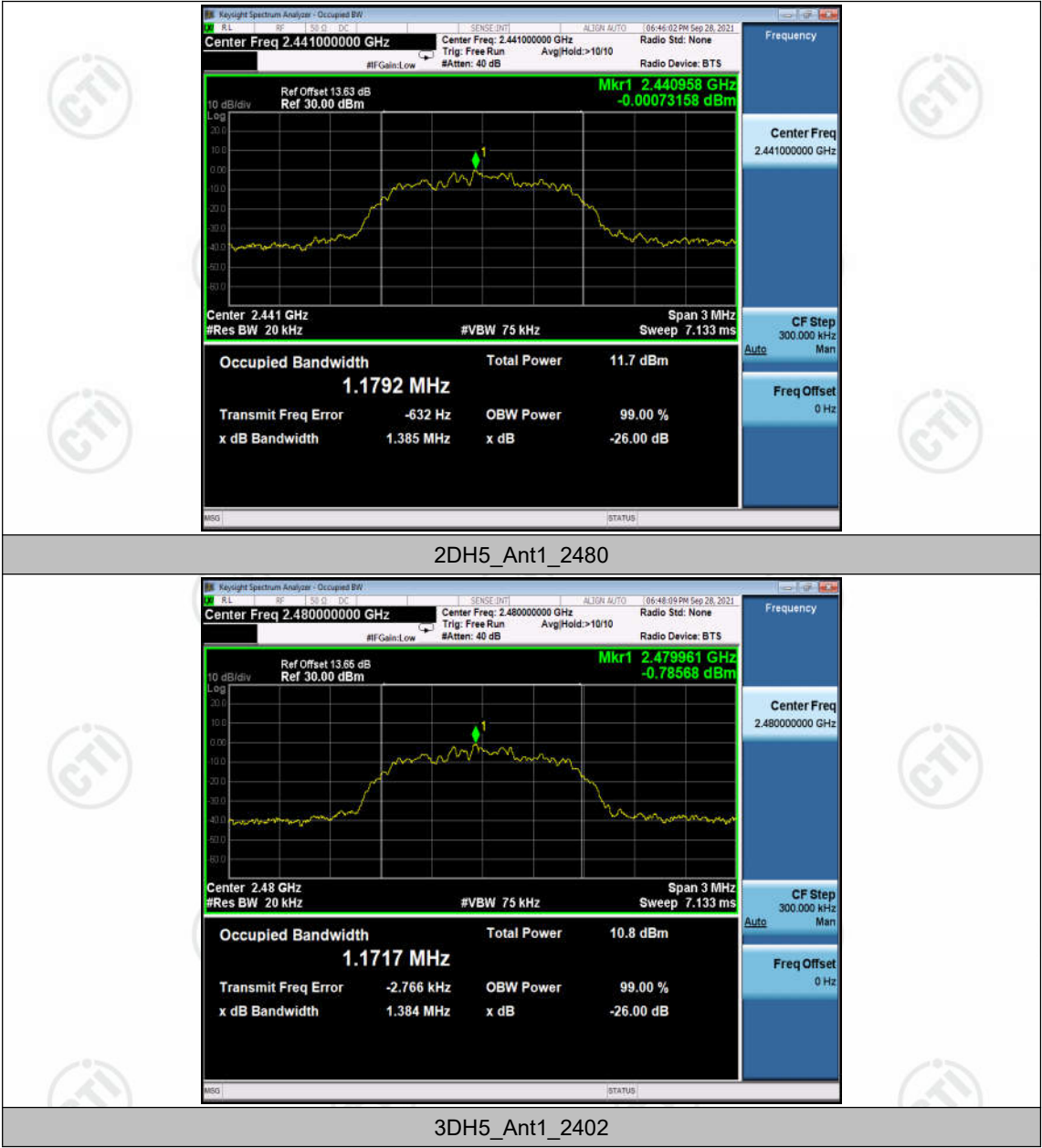


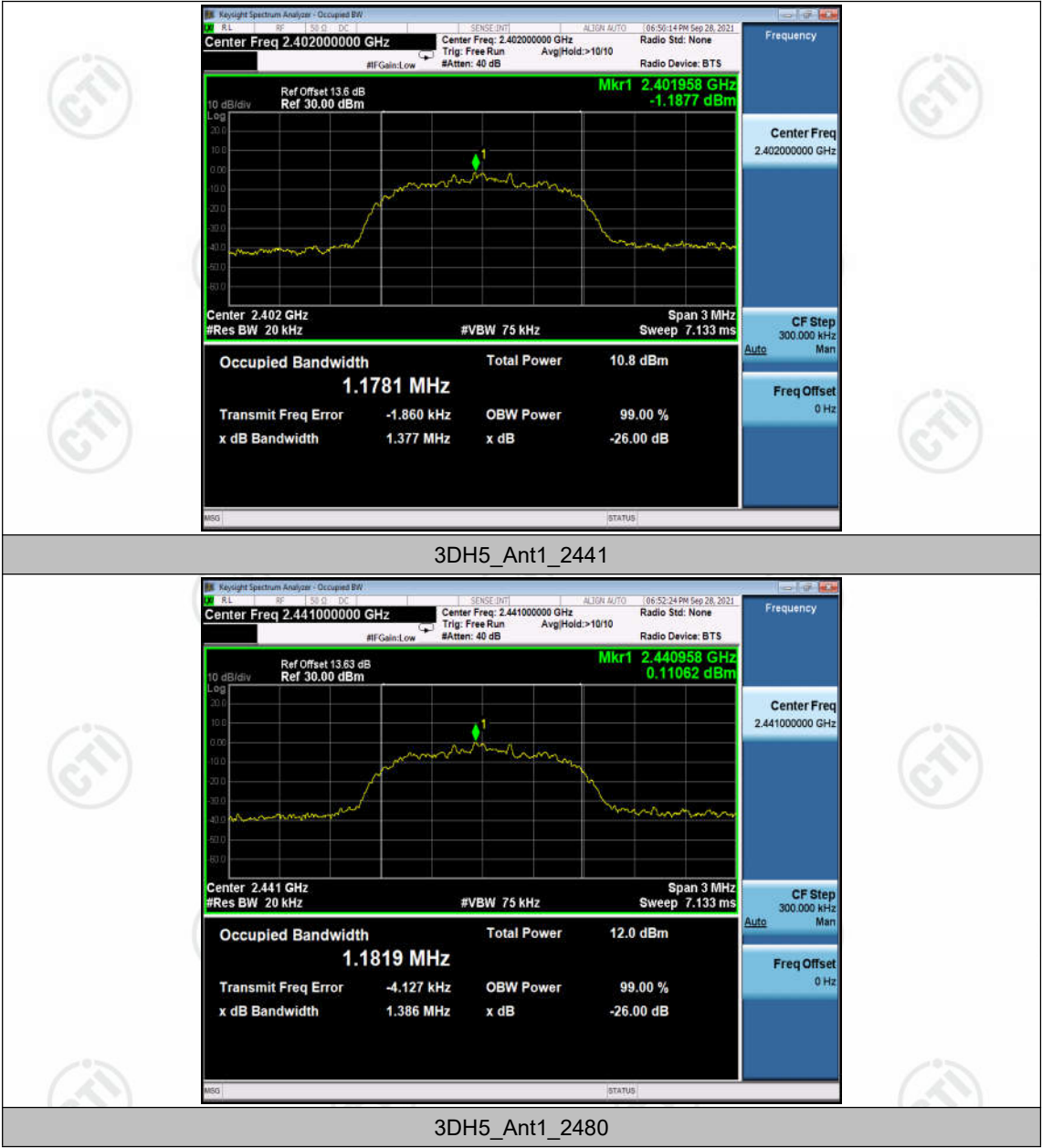
DH5_Ant1_2441



DH5_Ant1_2480







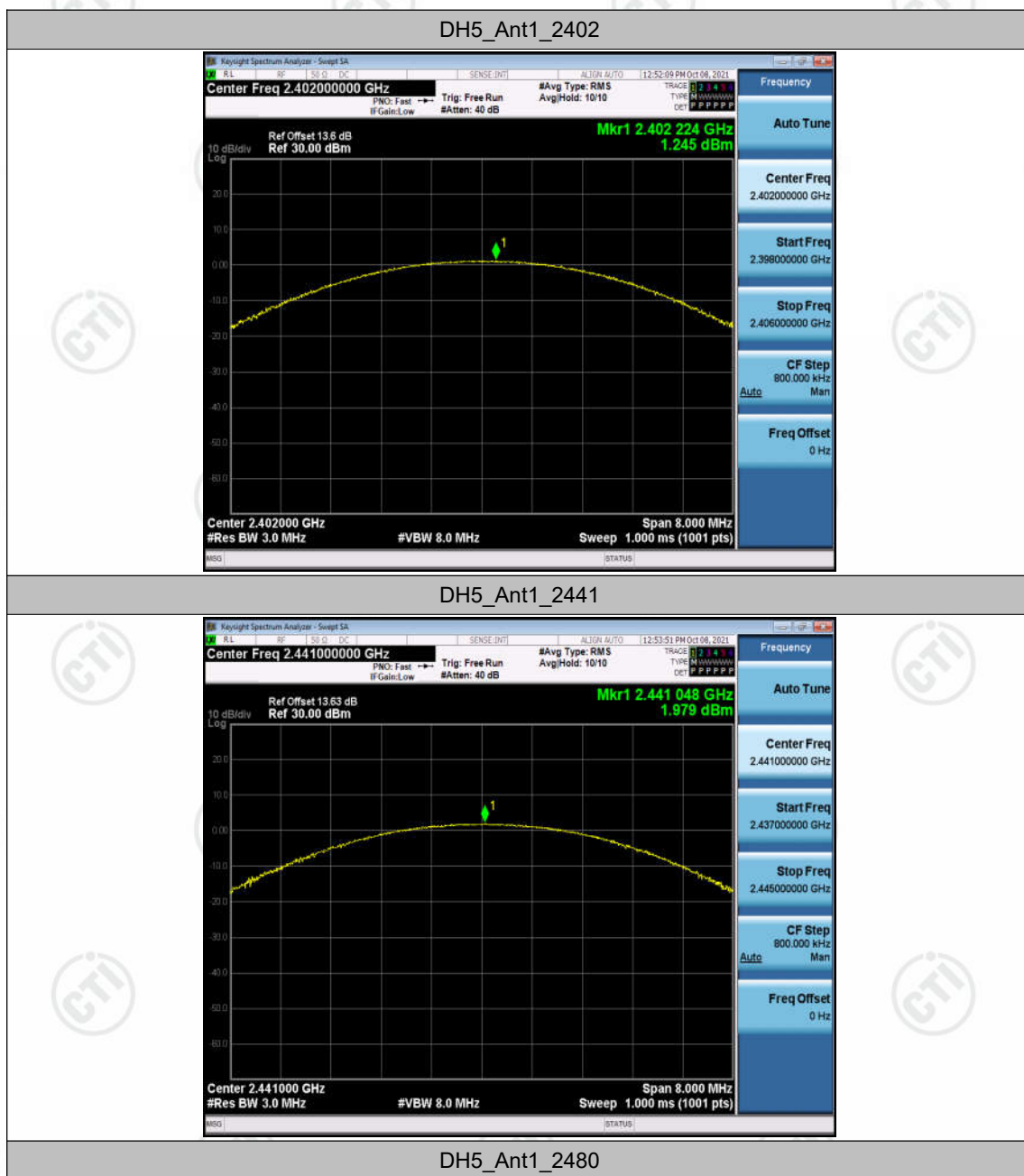


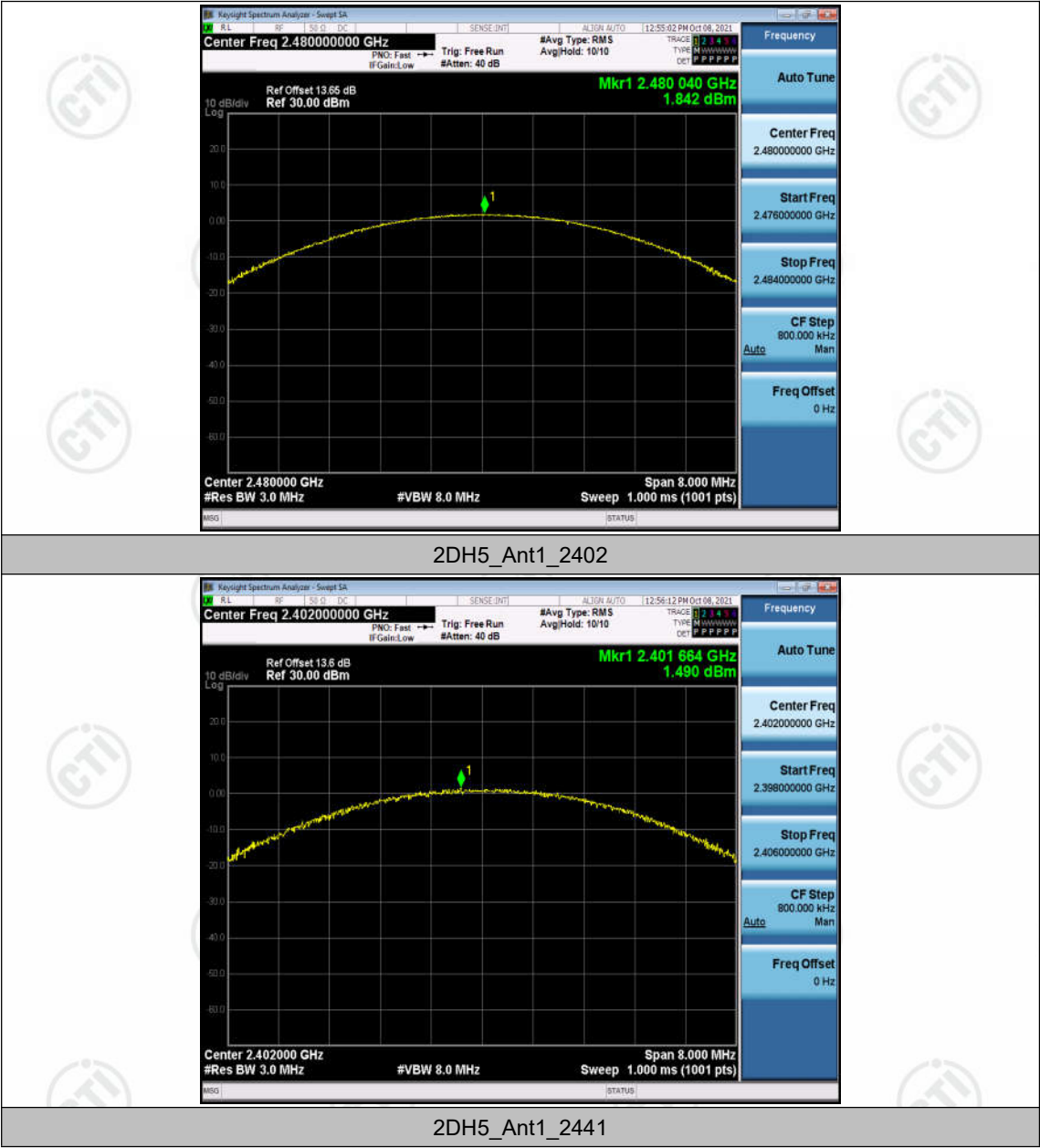
Appendix C: Maximum conducted output power

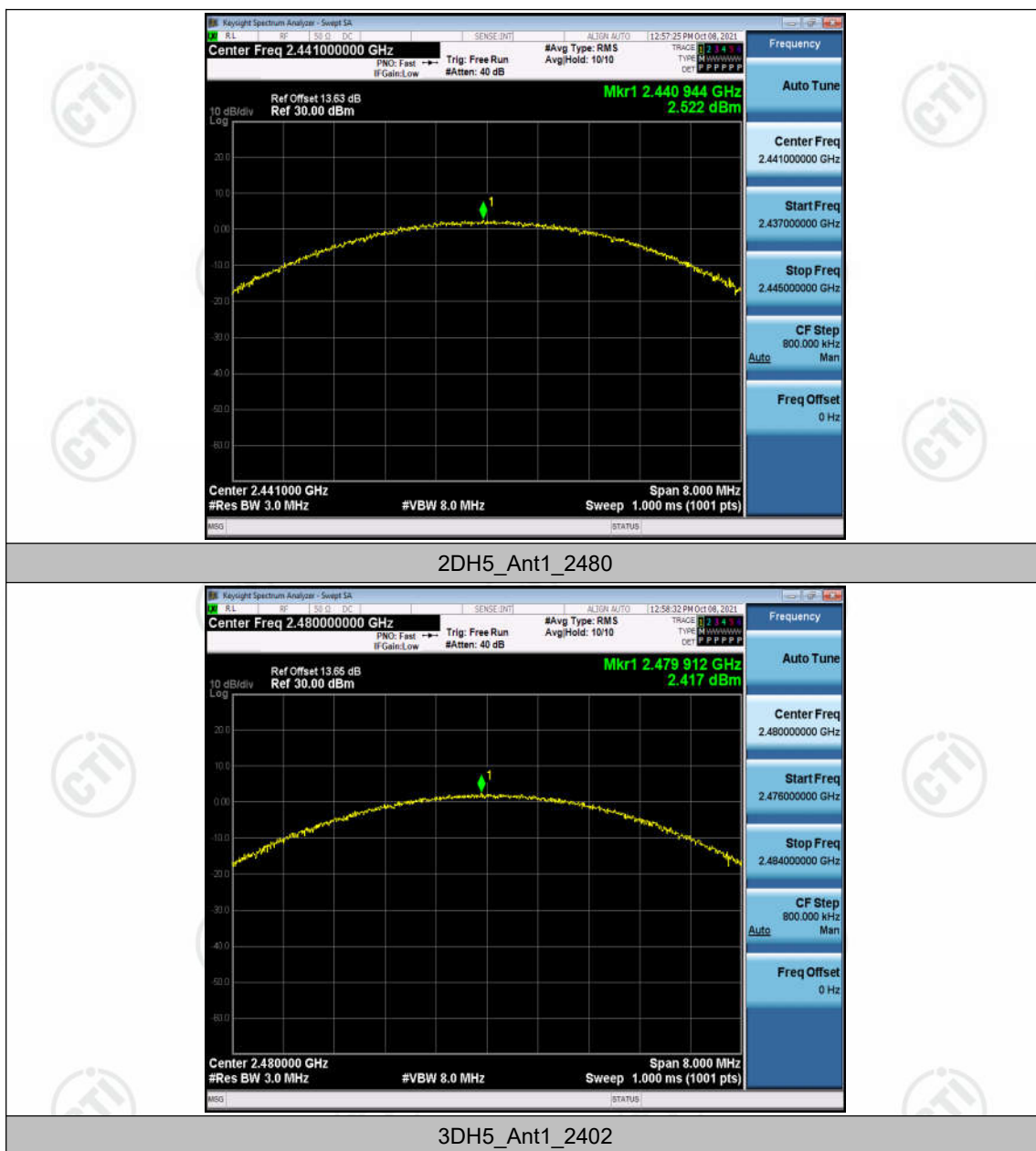
Test Result

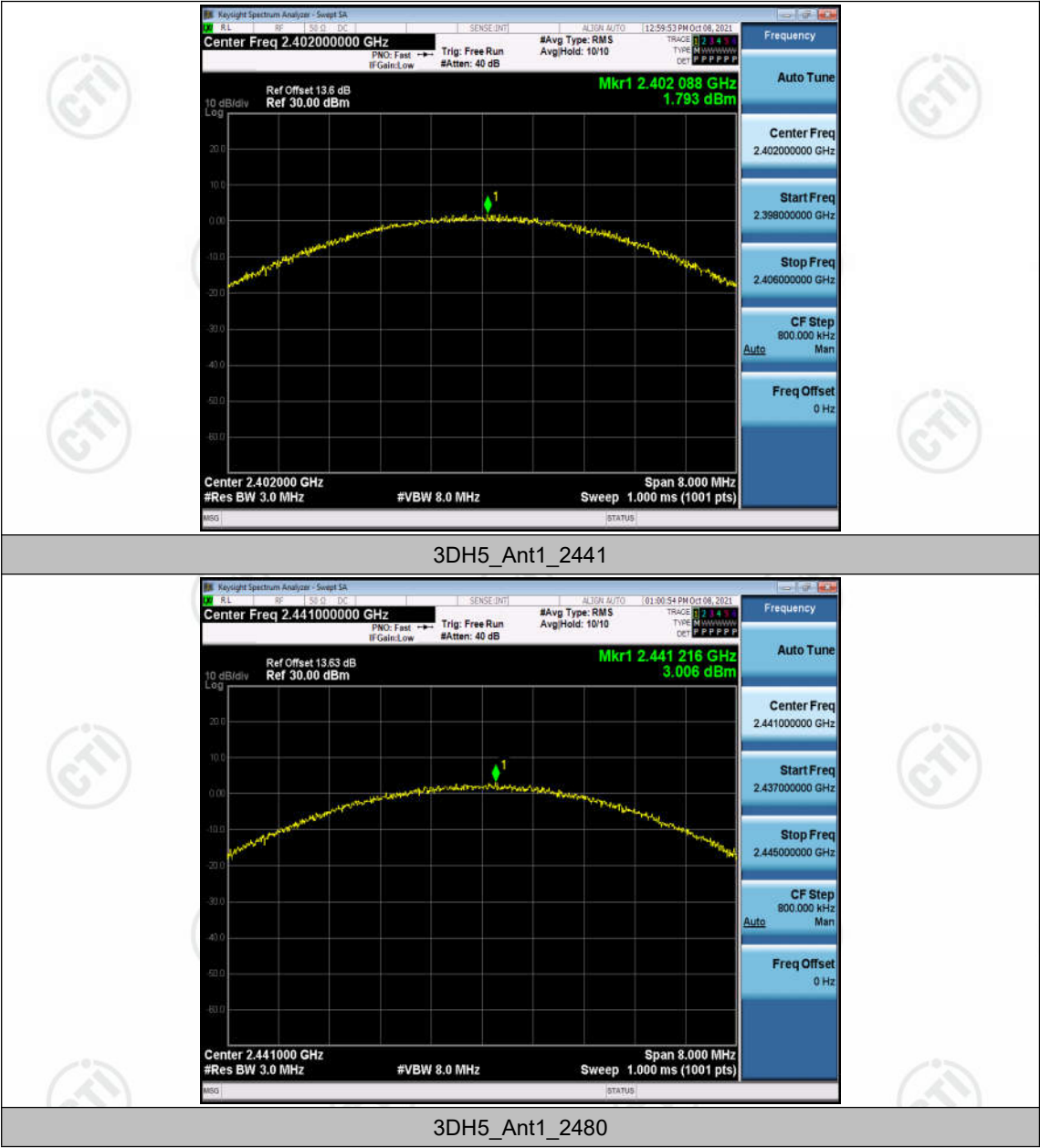
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.25	<=20.97	PASS
		2441	1.98	<=20.97	PASS
		2480	1.84	<=20.97	PASS
2DH5	Ant1	2402	1.49	<=20.97	PASS
		2441	2.52	<=20.97	PASS
		2480	2.42	<=20.97	PASS
3DH5	Ant1	2402	1.79	<=20.97	PASS
		2441	3.01	<=20.97	PASS
		2480	2.83	<=20.97	PASS

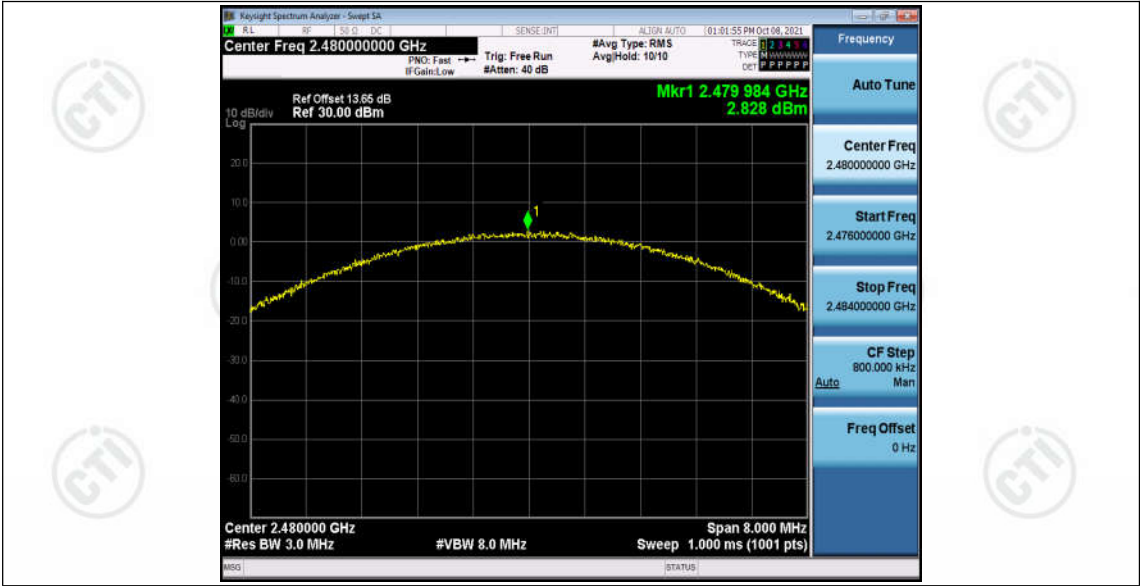
Test Graphs









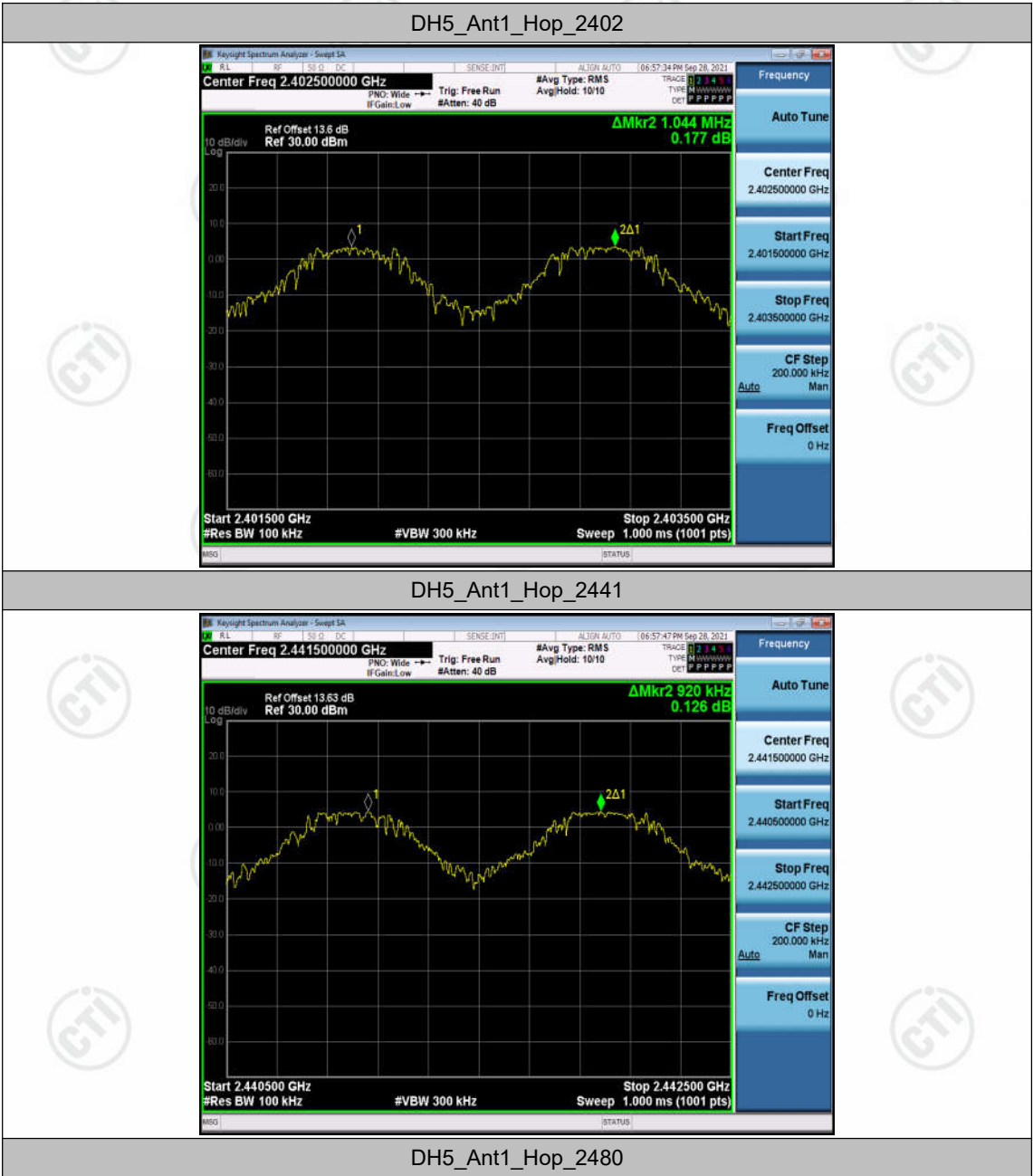


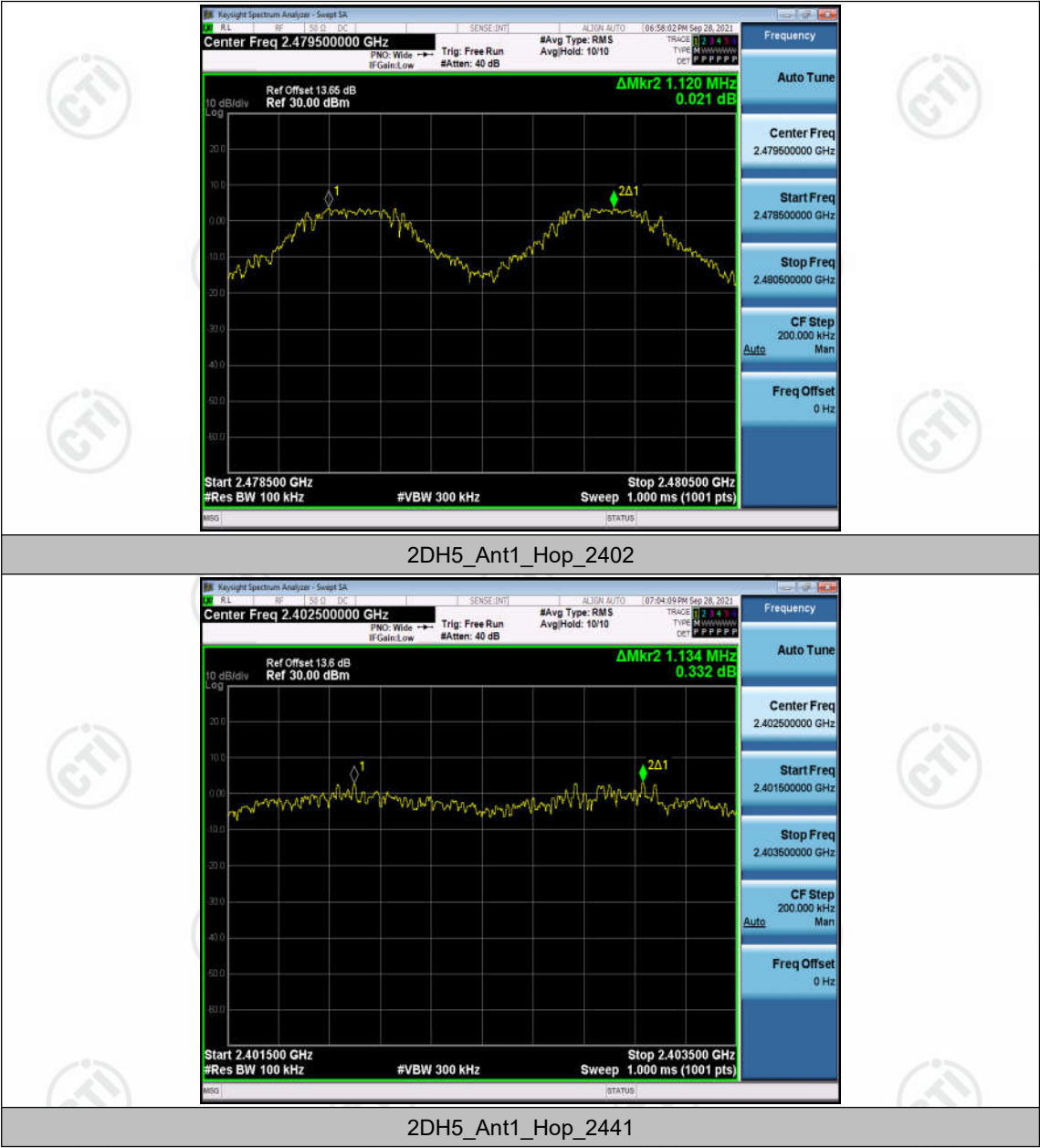
Appendix D: Carrier frequency separation

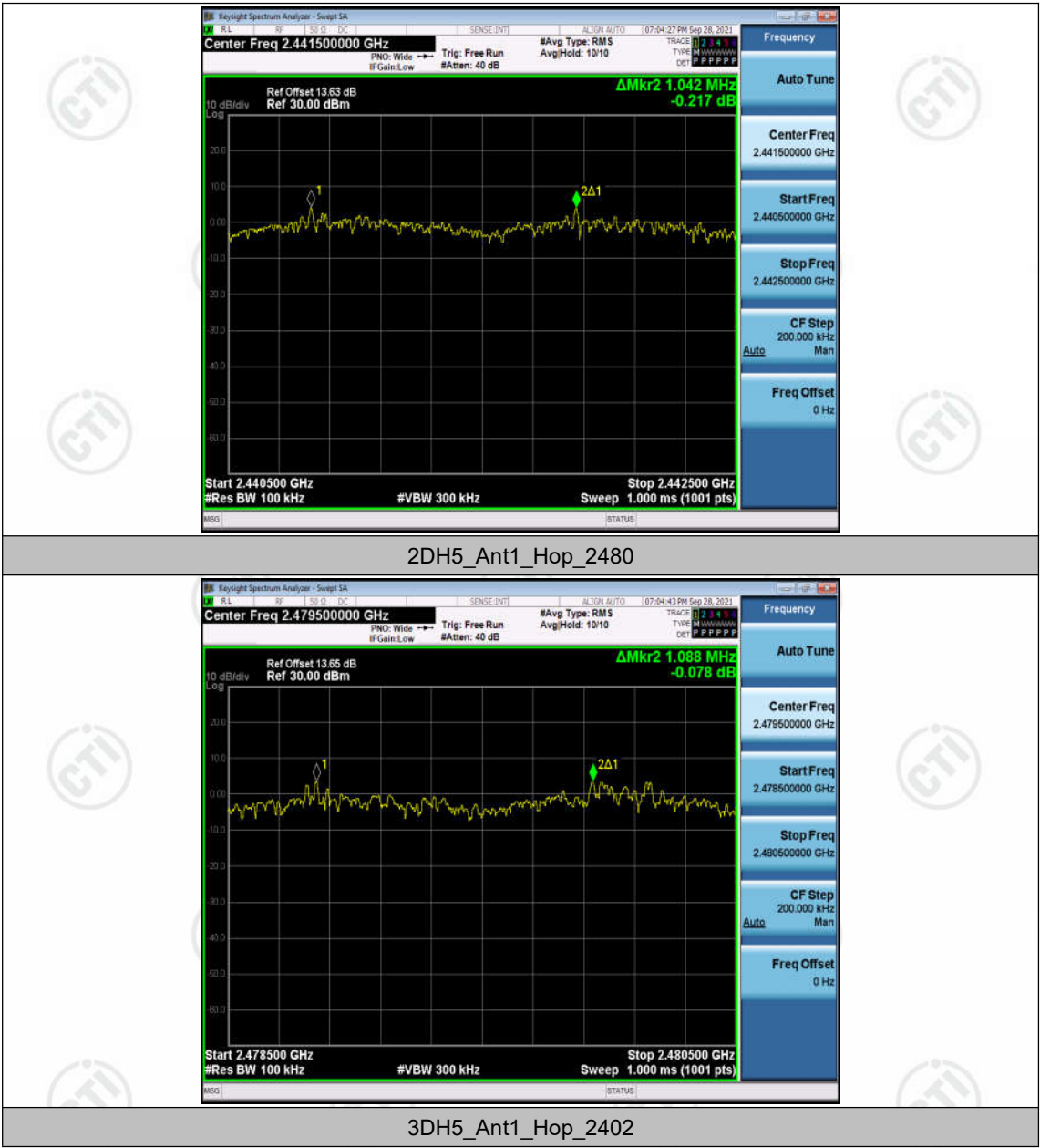
Test Result

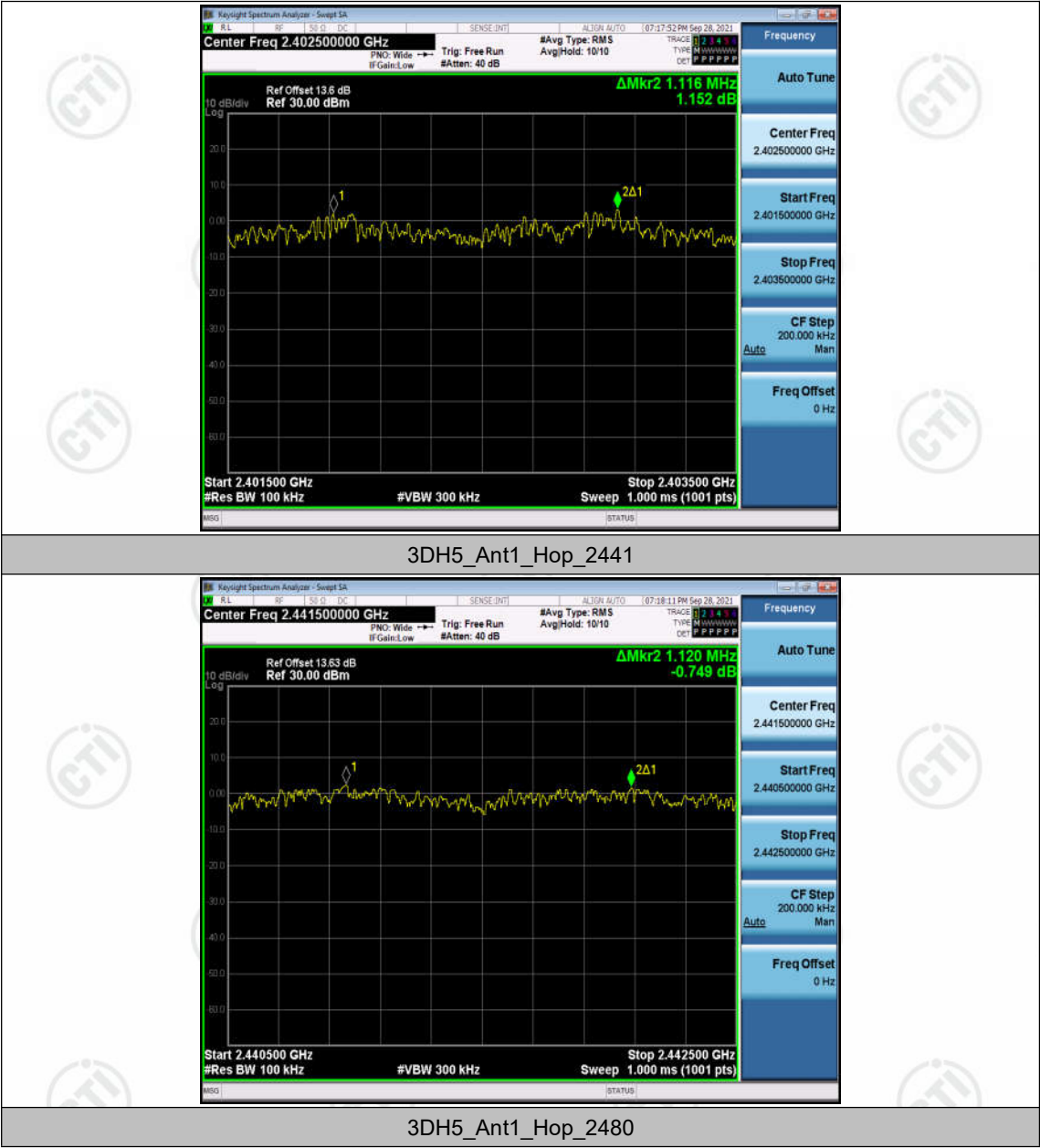
Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop_2402	1.044	≥ 0.936	PASS
		Hop_2441	0.92	≥ 0.624	PASS
		Hop_2480	1.12	≥ 0.936	PASS
2DH5	Ant1	Hop_2402	1.134	≥ 0.882	PASS
		Hop_2441	1.042	≥ 0.882	PASS
		Hop_2480	1.088	≥ 0.882	PASS
3DH5	Ant1	Hop_2402	1.116	≥ 0.874	PASS
		Hop_2441	1.12	≥ 0.874	PASS
		Hop_2480	1.03	≥ 0.874	PASS

Test Graphs









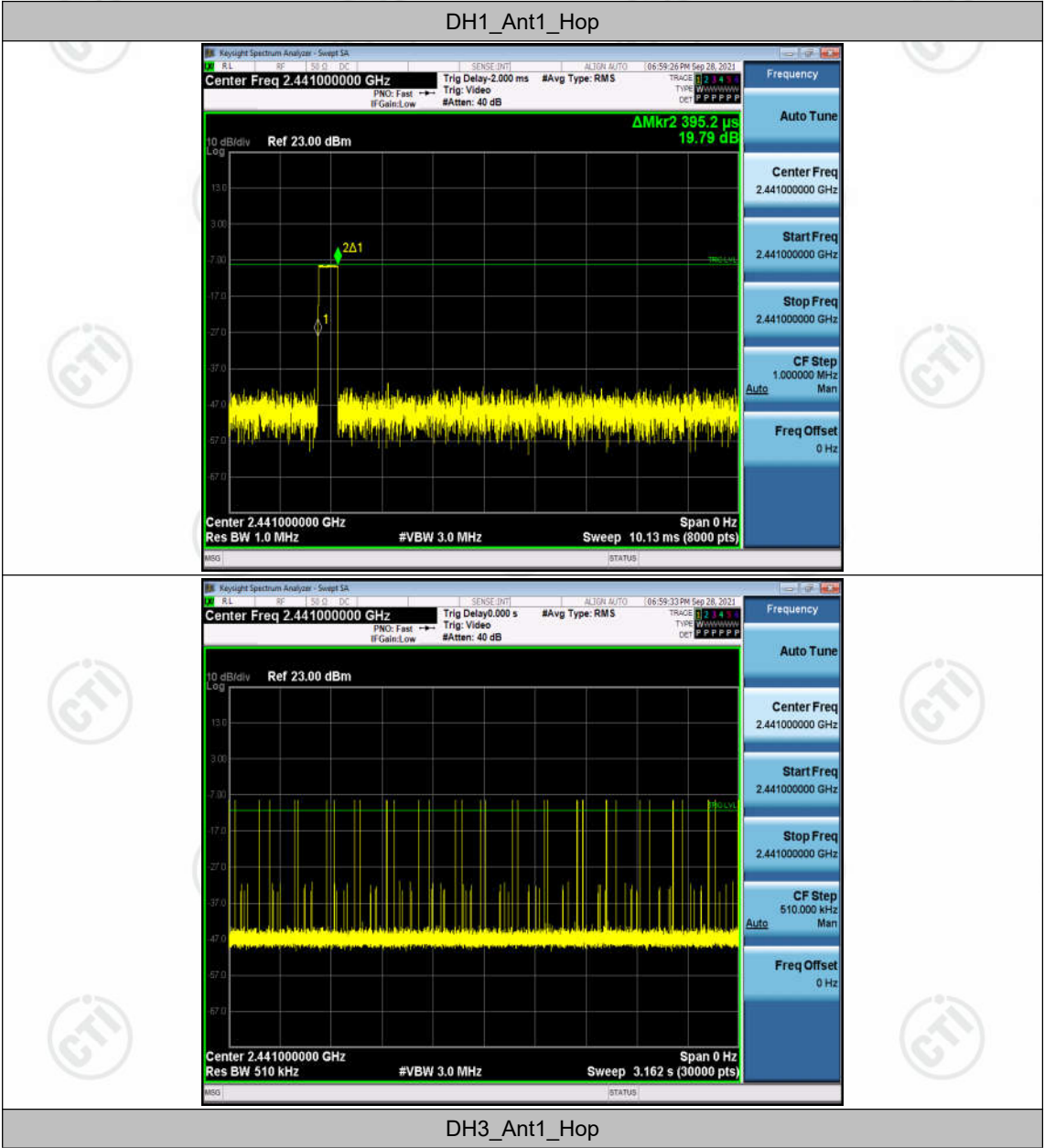


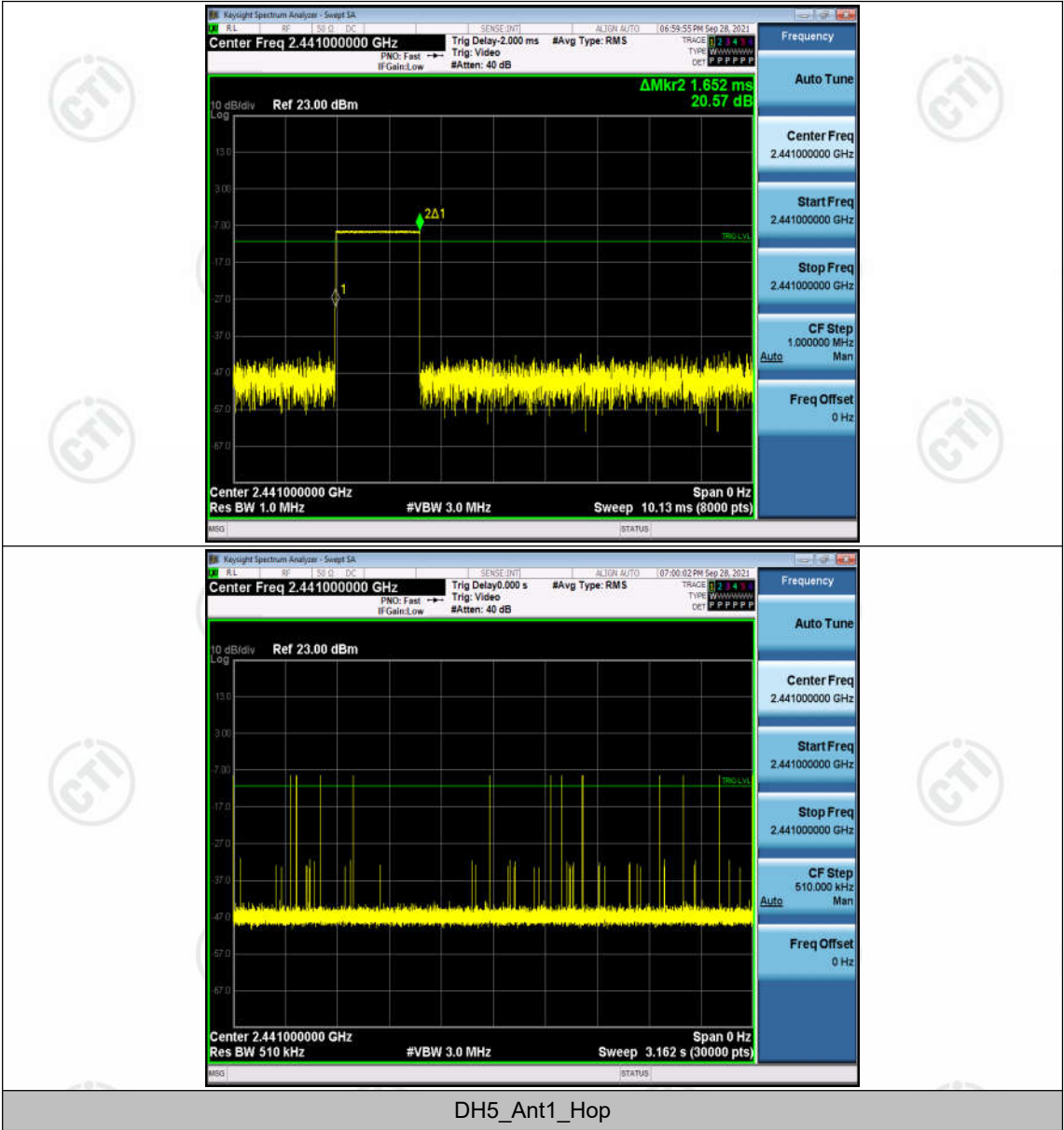
Appendix E: Time of occupancy

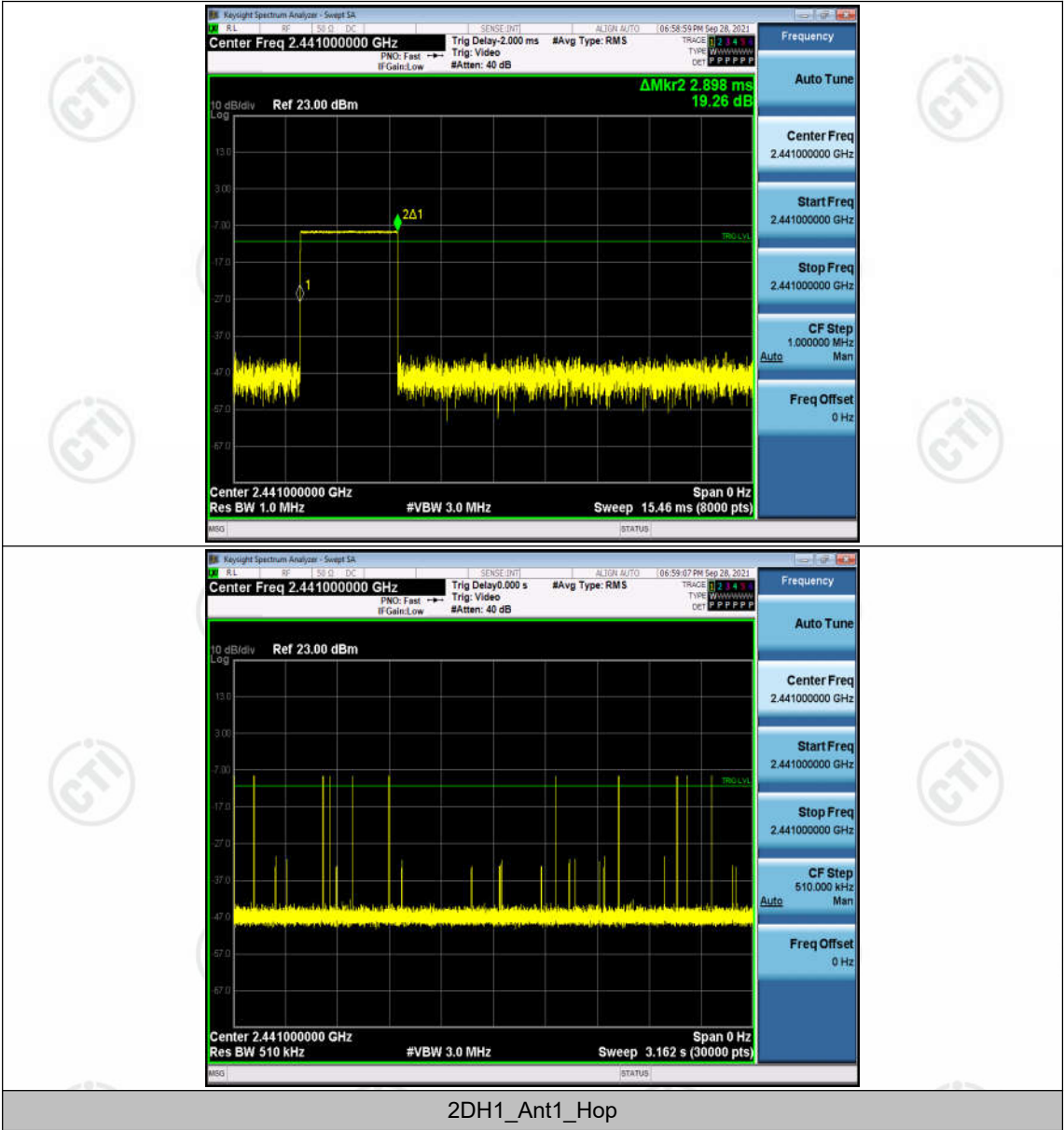
Test Result

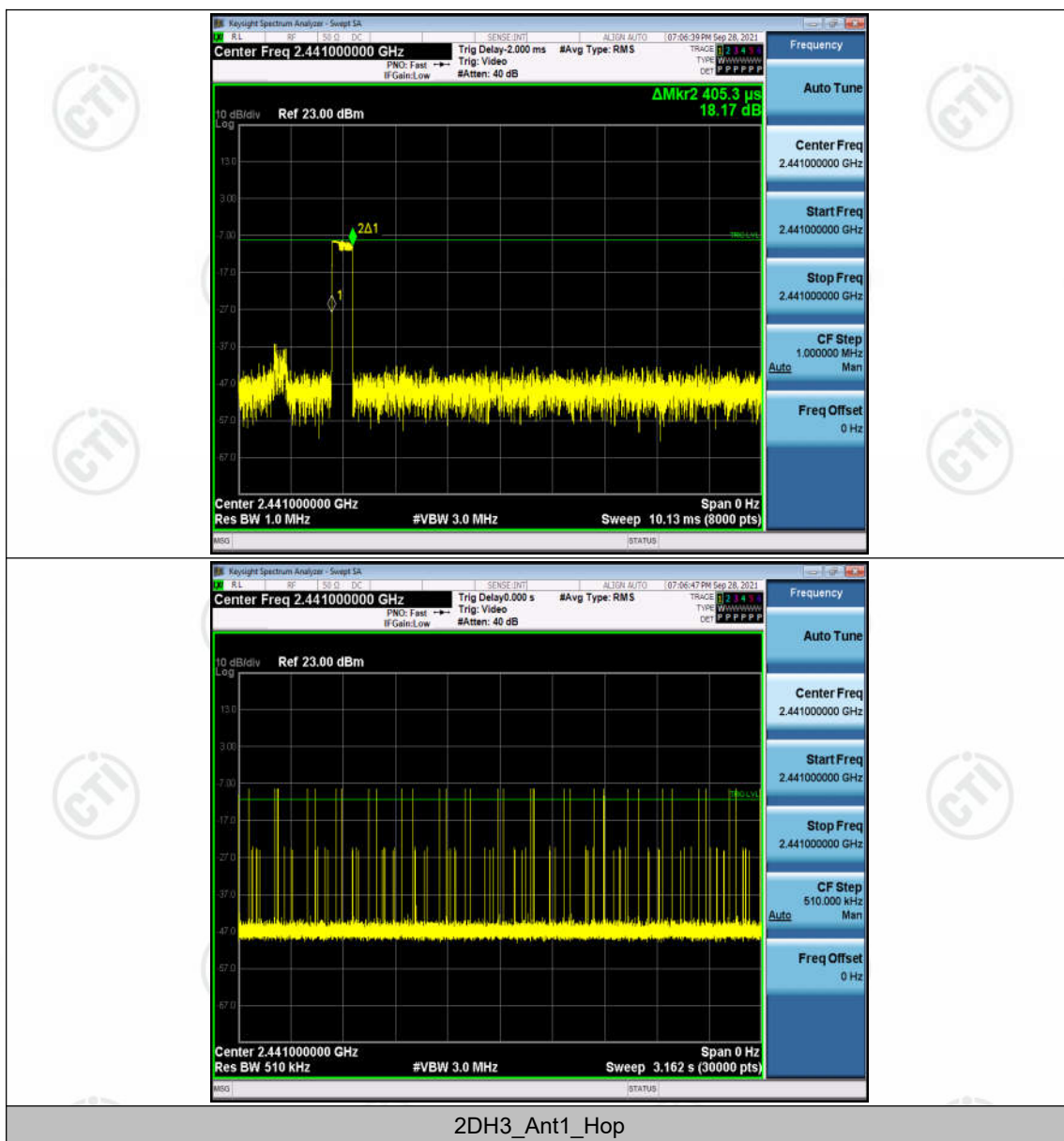
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	330	0.13	≤ 0.4	PASS
DH3	Ant1	Hop	1.65	130	0.215	≤ 0.4	PASS
DH5	Ant1	Hop	2.90	110	0.319	≤ 0.4	PASS
2DH1	Ant1	Hop	0.41	330	0.134	≤ 0.4	PASS
2DH3	Ant1	Hop	1.66	140	0.232	≤ 0.4	PASS
2DH5	Ant1	Hop	2.91	110	0.32	≤ 0.4	PASS
3DH1	Ant1	Hop	0.41	320	0.131	≤ 0.4	PASS
3DH3	Ant1	Hop	1.66	150	0.249	≤ 0.4	PASS
3DH5	Ant1	Hop	2.91	120	0.349	≤ 0.4	PASS

Test Graphs

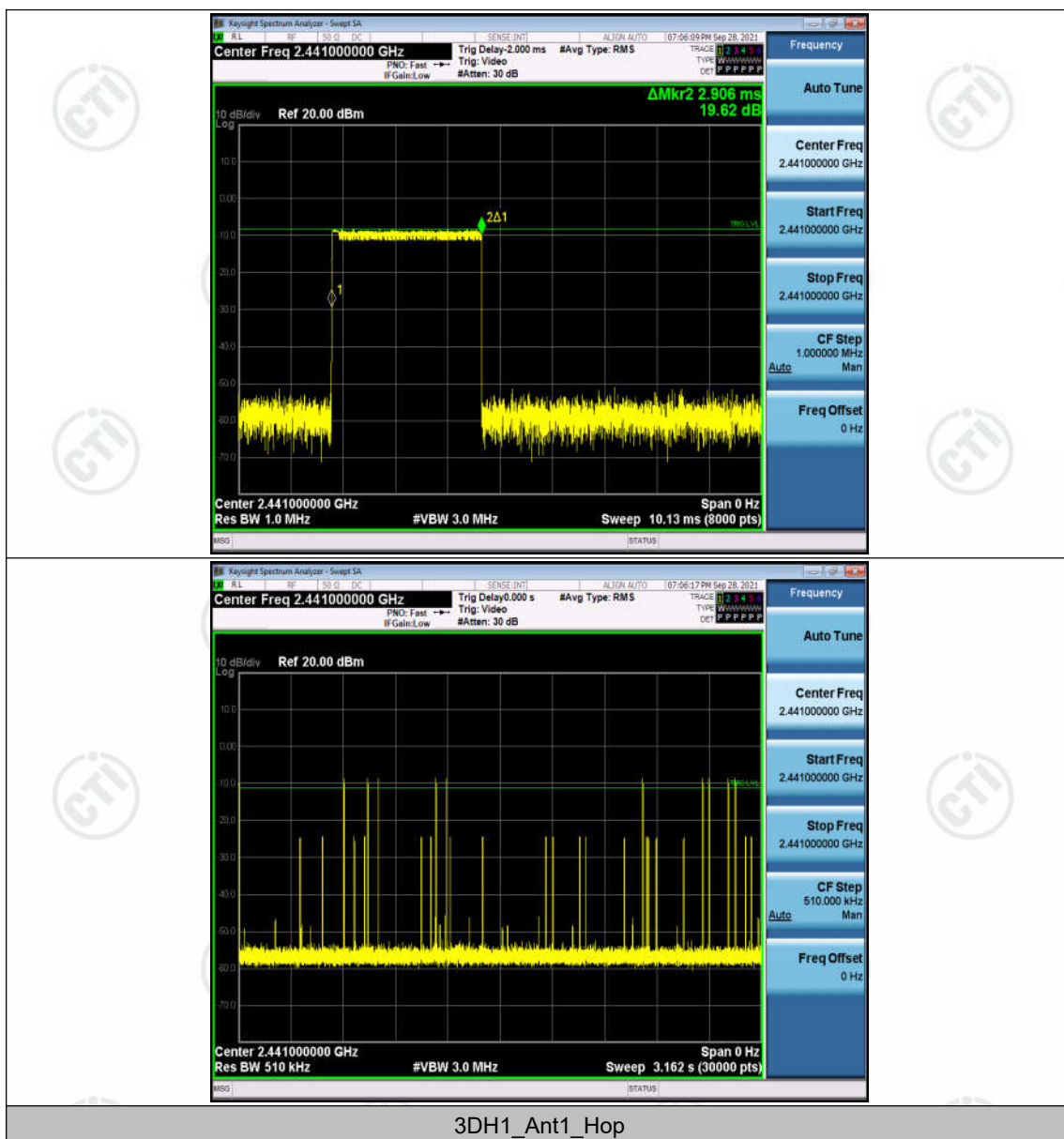


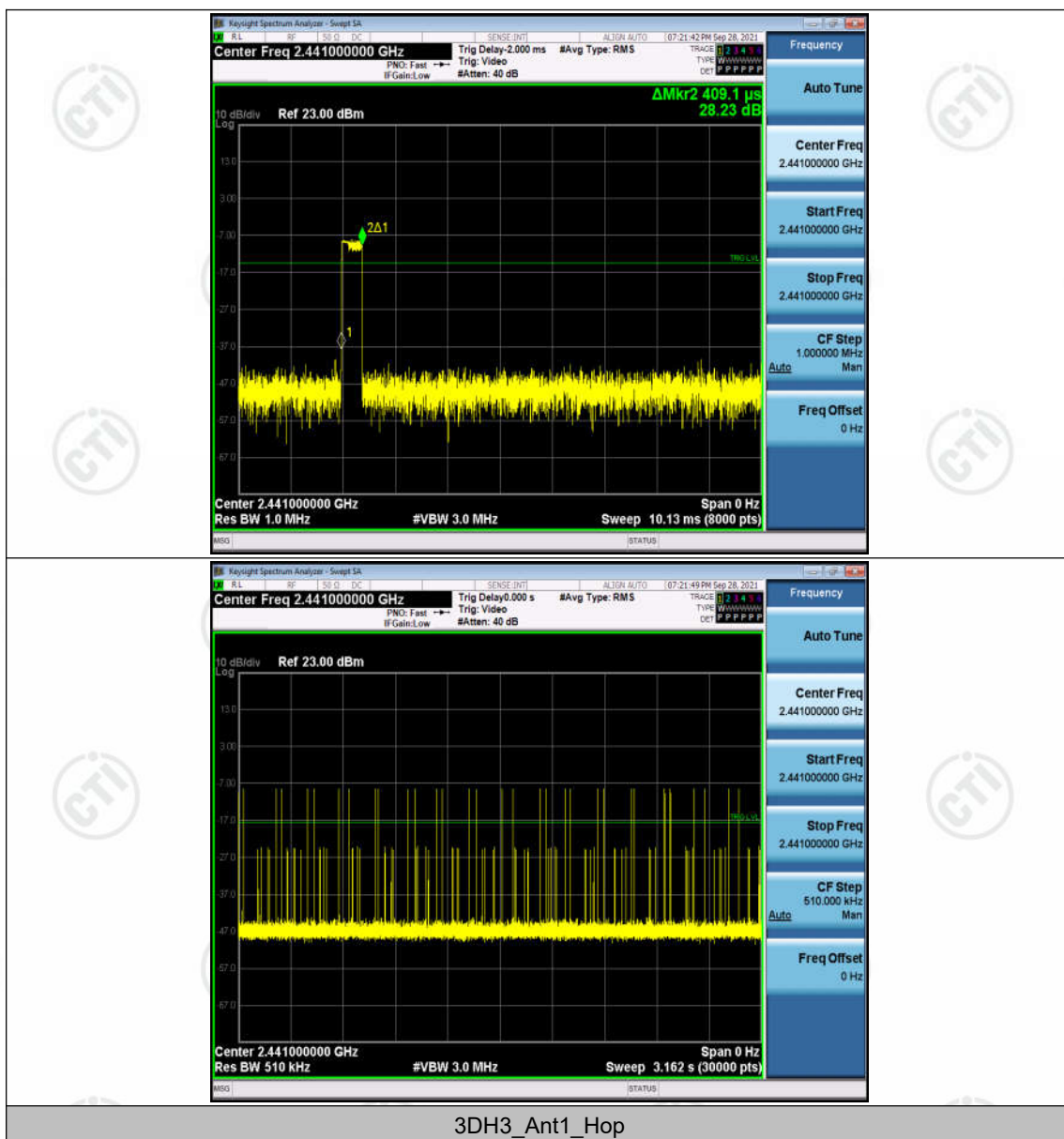


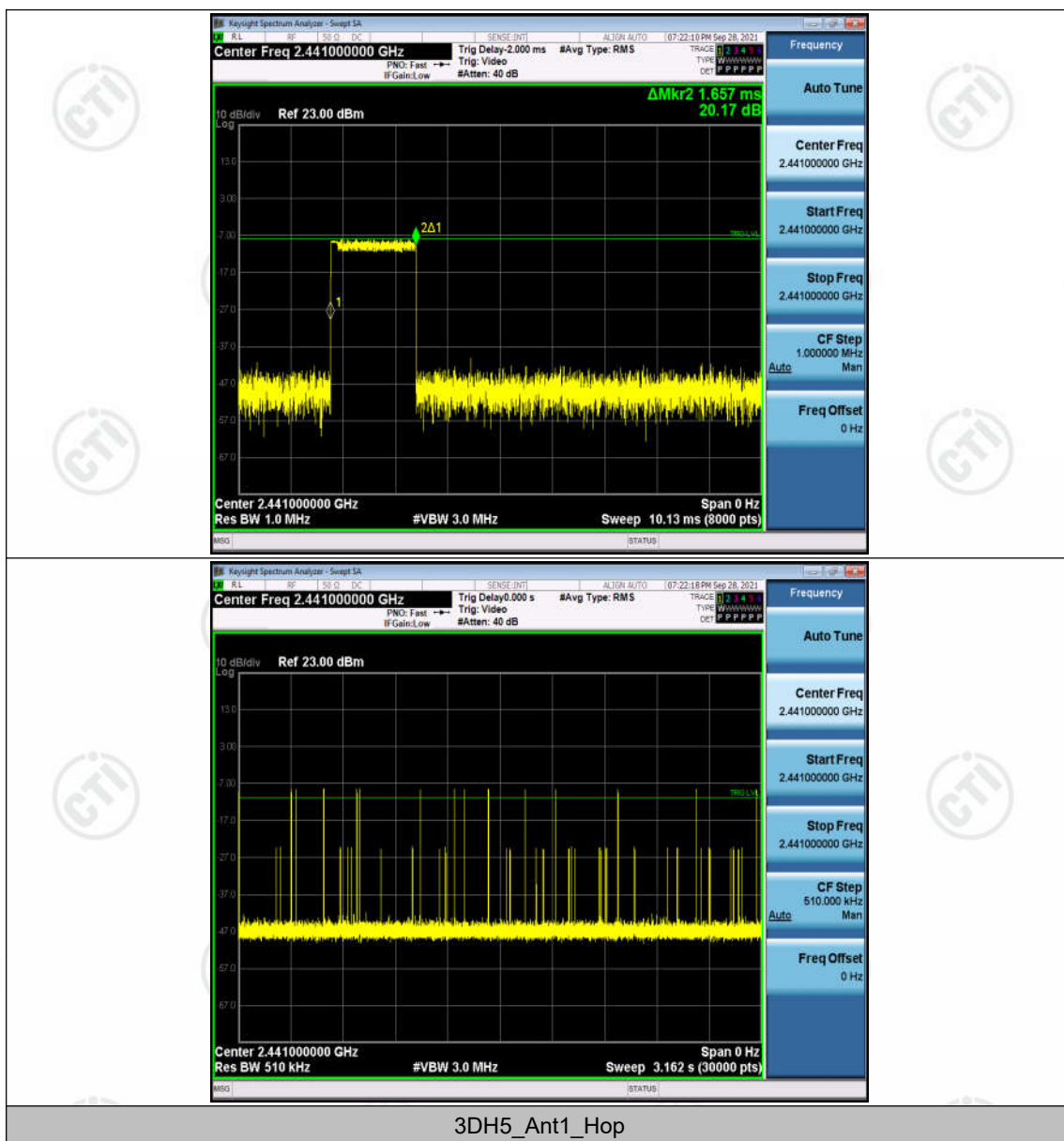


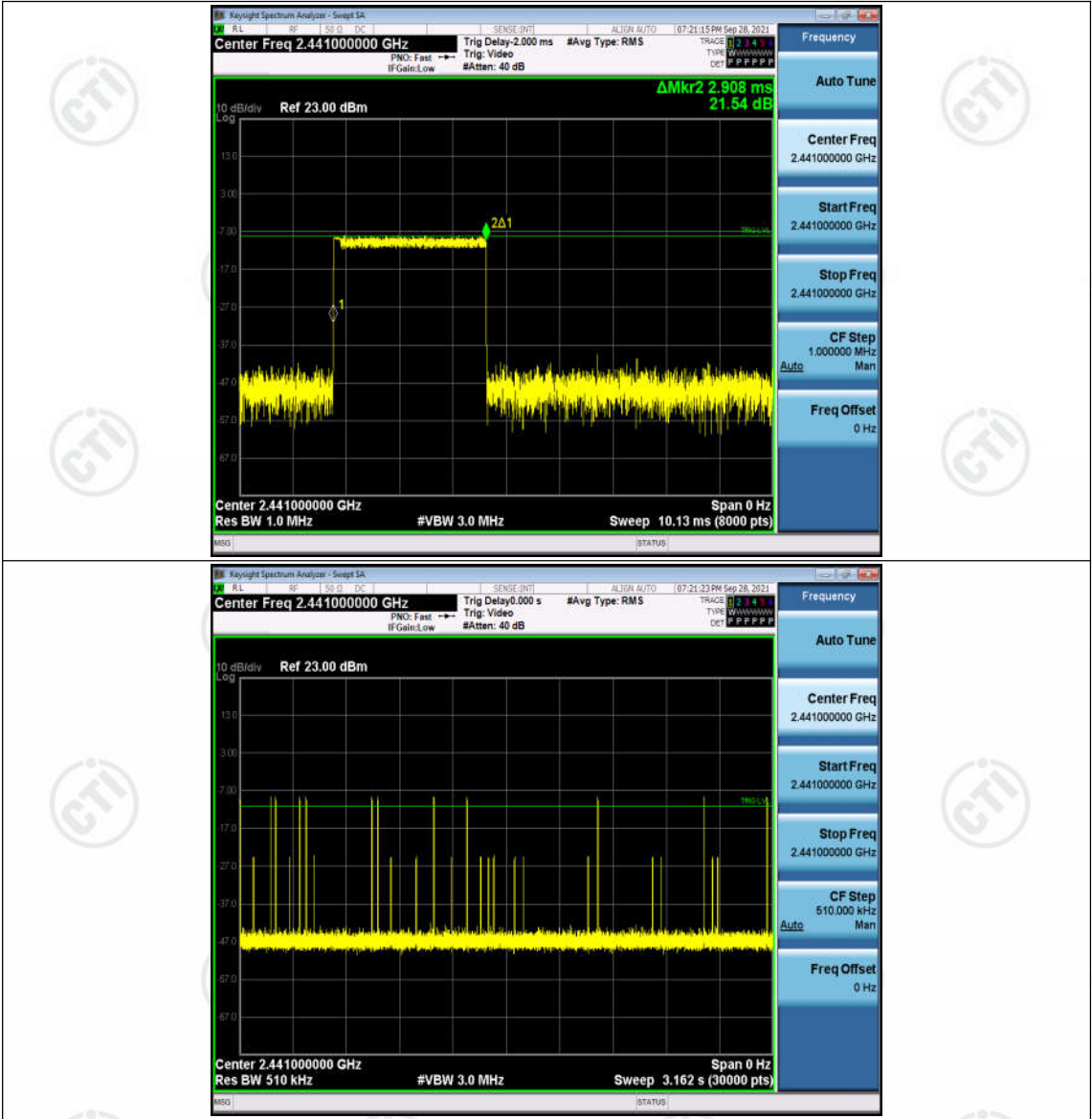










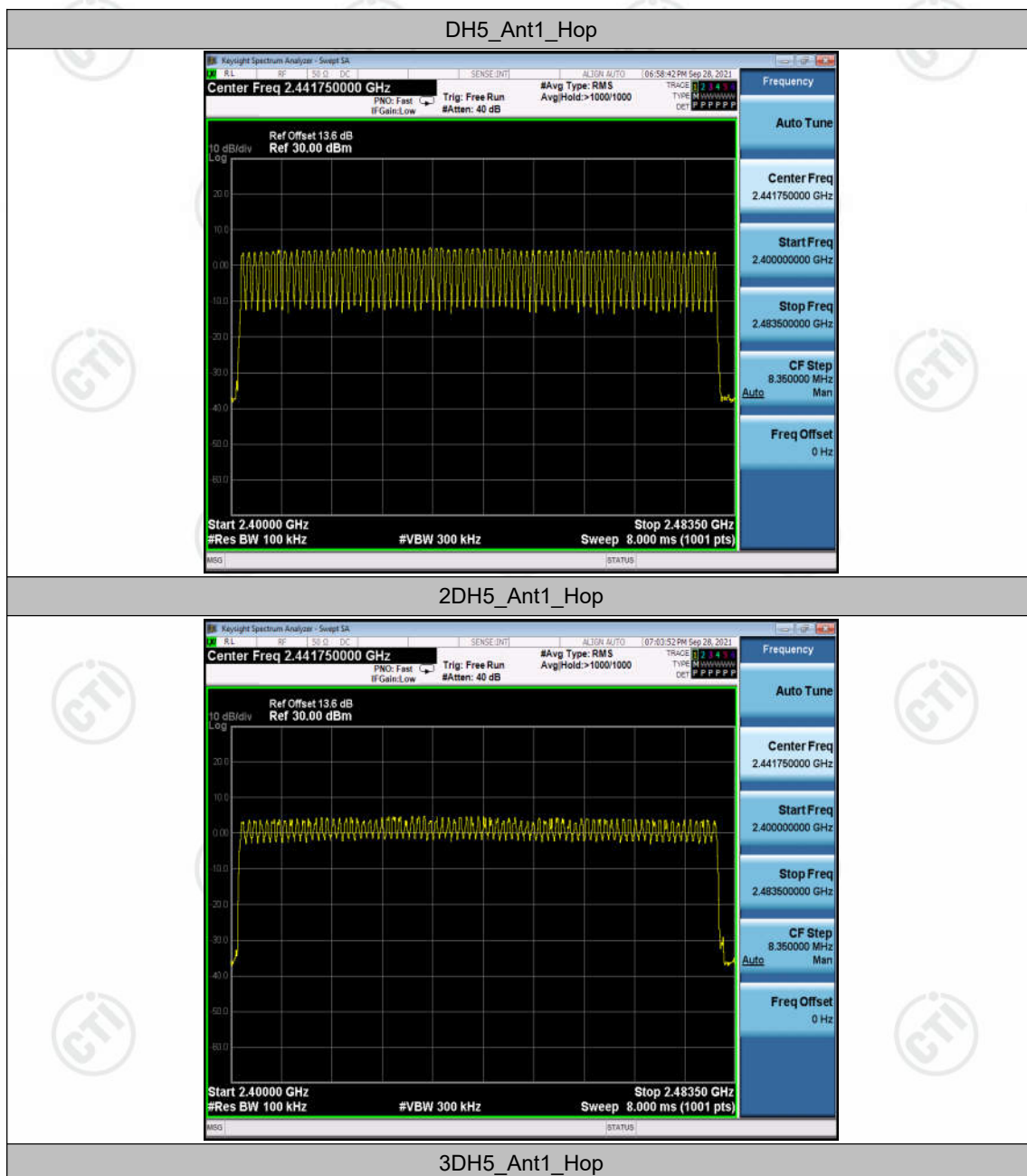


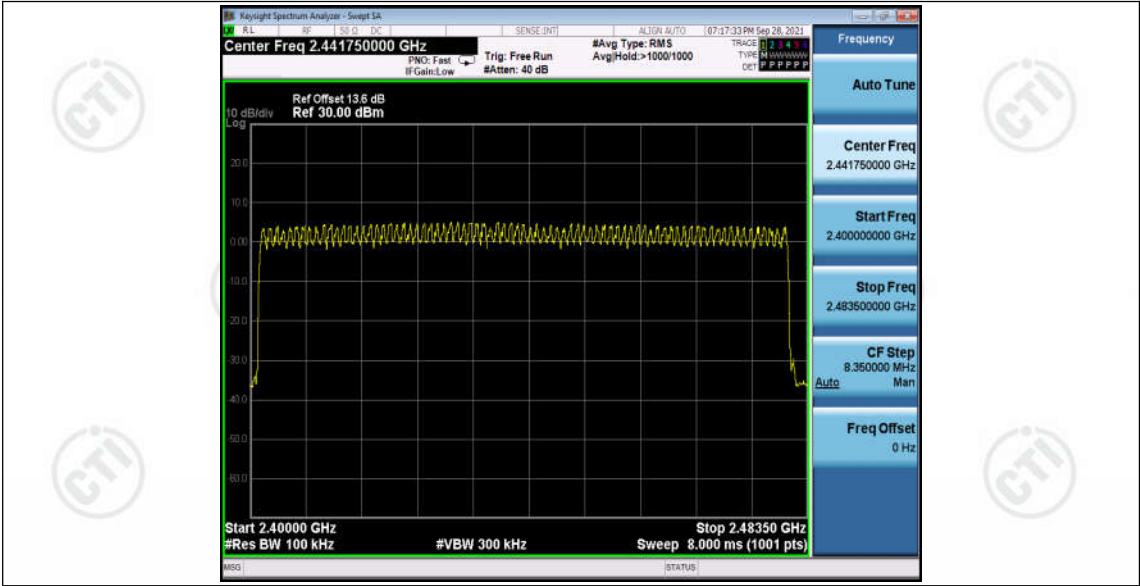
Appendix F: Number of hopping channels

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





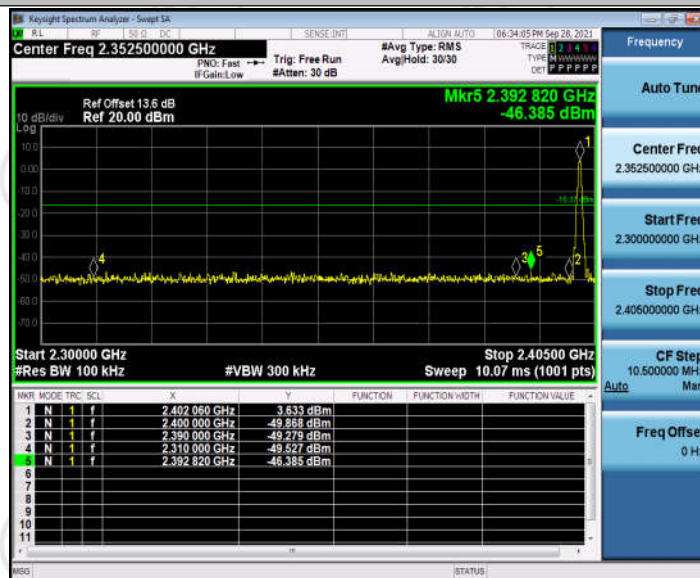
Appendix G: Band edge measurements

Test Result

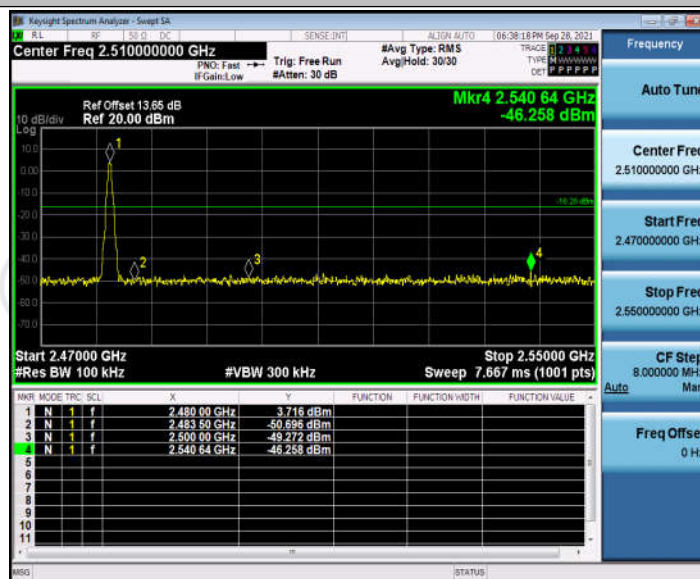
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.63	-46.39	<=-16.37	PASS
		High	2480	3.72	-46.26	<=-16.28	PASS
		Low	Hop_2402	3.39	-45.55	<=-16.61	PASS
		High	Hop_2480	4.04	-45.37	<=-15.96	PASS
2DH5	Ant1	Low	2402	3.59	-45.68	<=-16.42	PASS
		High	2480	2.80	-46.53	<=-17.2	PASS
		Low	Hop_2402	2.31	-45.05	<=-17.69	PASS
		High	Hop_2480	3.47	-45.18	<=-16.53	PASS
3DH5	Ant1	Low	2402	2.77	-46.58	<=-17.23	PASS
		High	2480	1.45	-46.44	<=-18.55	PASS
		Low	Hop_2402	2.56	-45.24	<=-17.44	PASS
		High	Hop_2480	3.91	-44.31	<=-16.09	PASS

Test Graphs

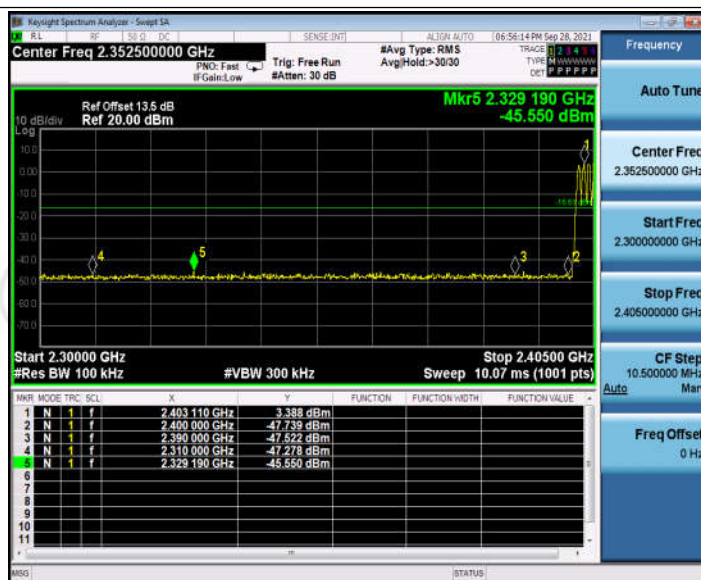
DH5_Ant1_Low_2402



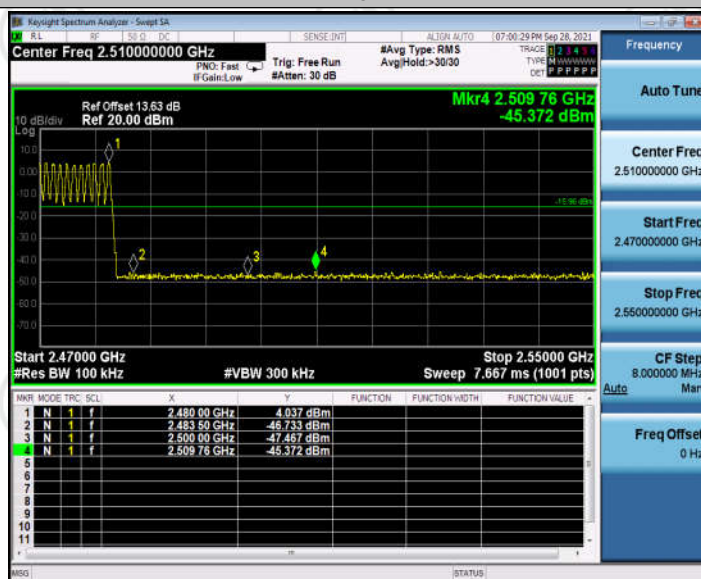
DH5_Ant1_High_2480



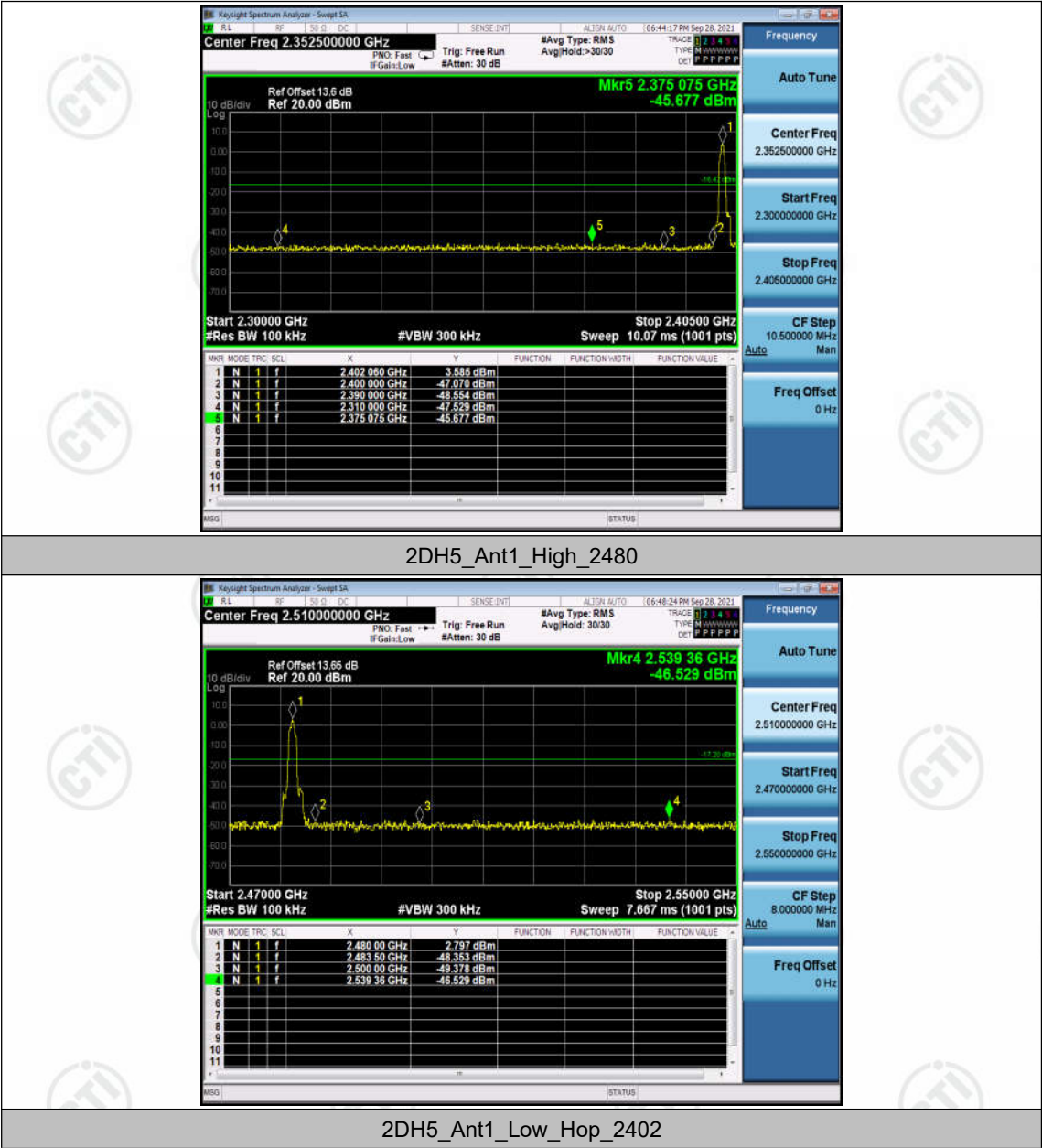
DH5_Ant1_Low_Hop_2402

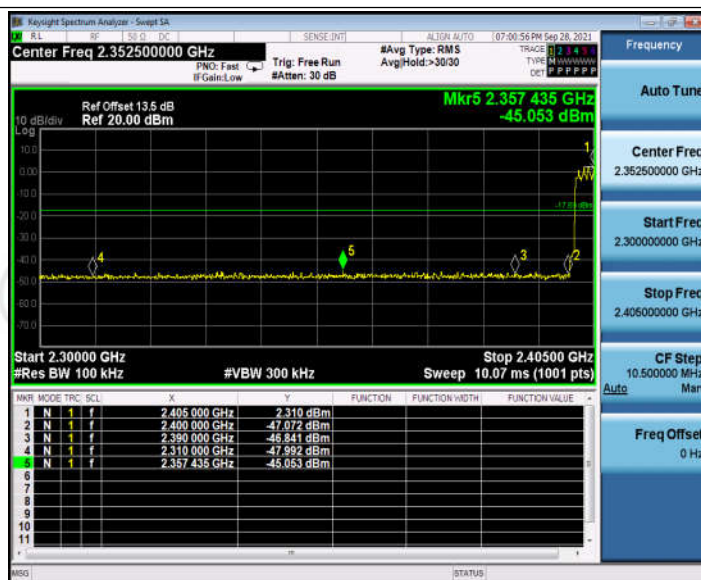


DH5_Ant1_High_Hop_2480

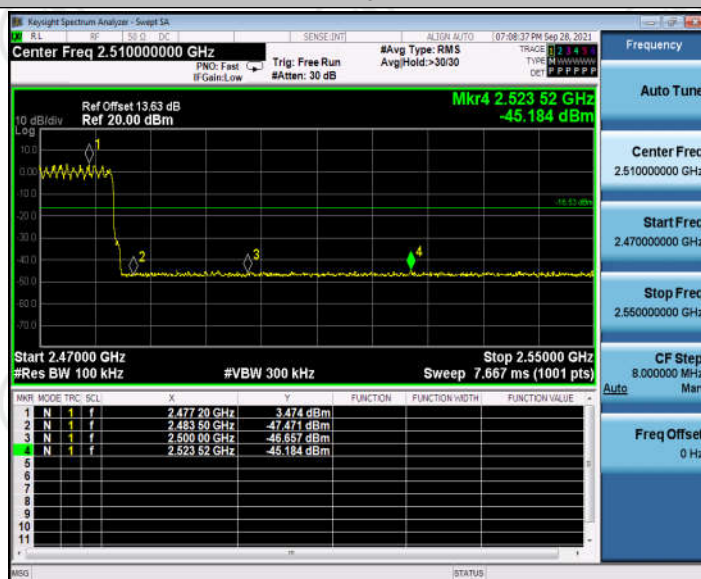


2DH5_Ant1_Low_2402

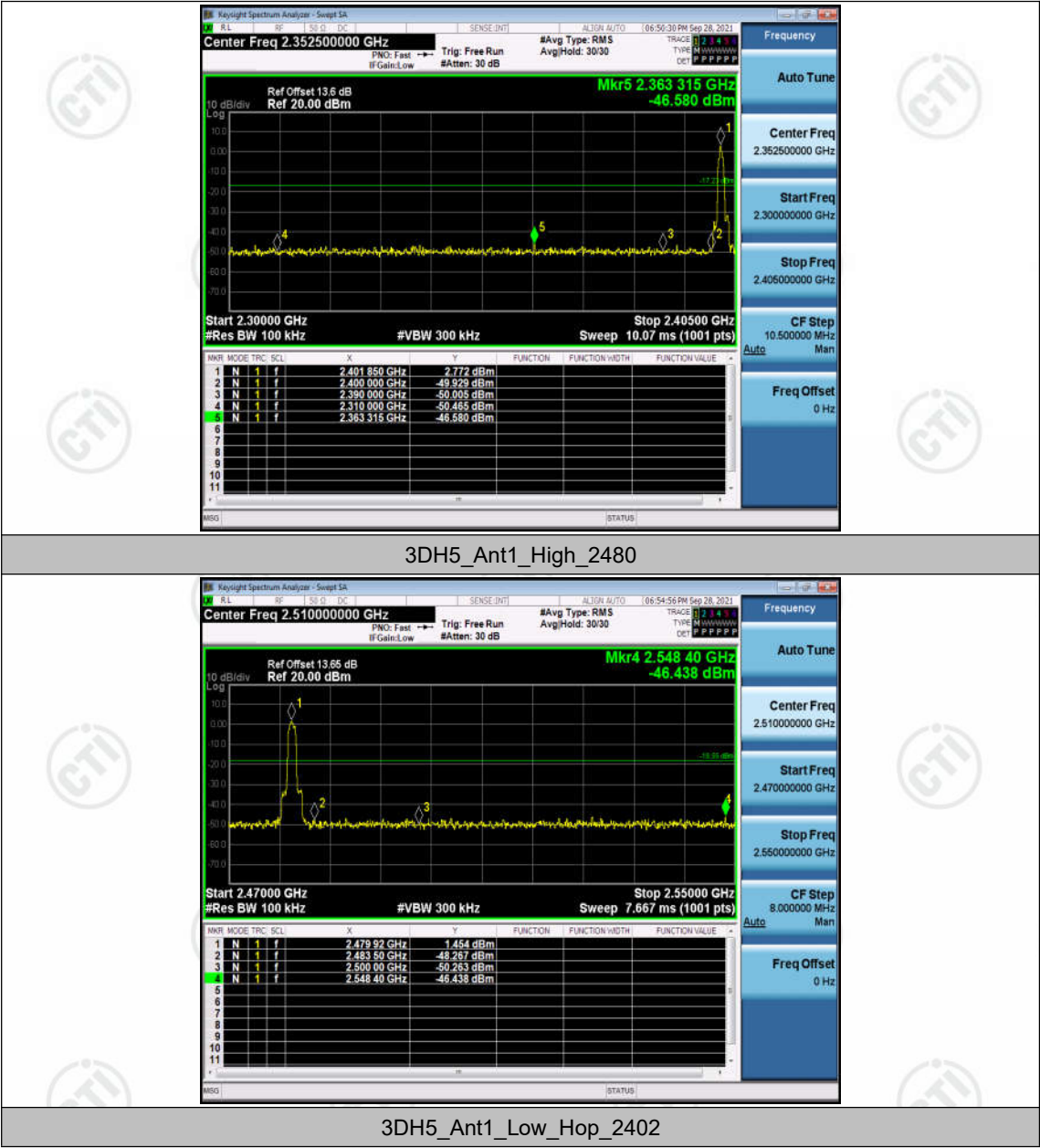


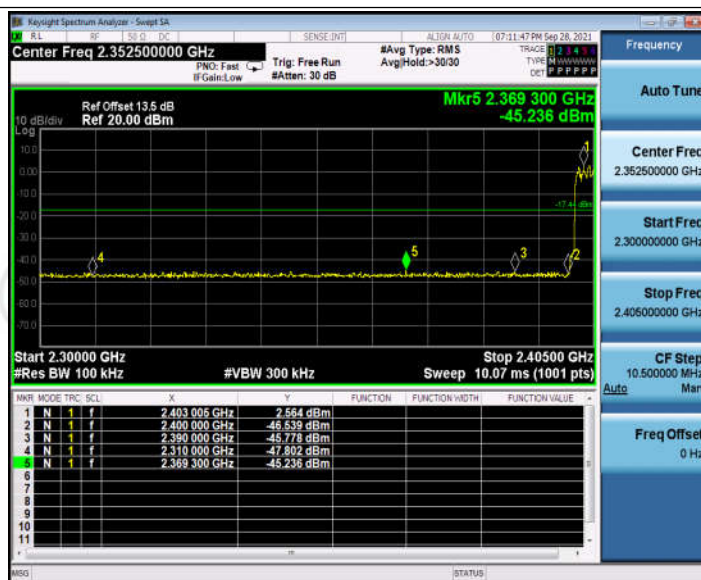


2DH5_Ant1_High_Hop_2480

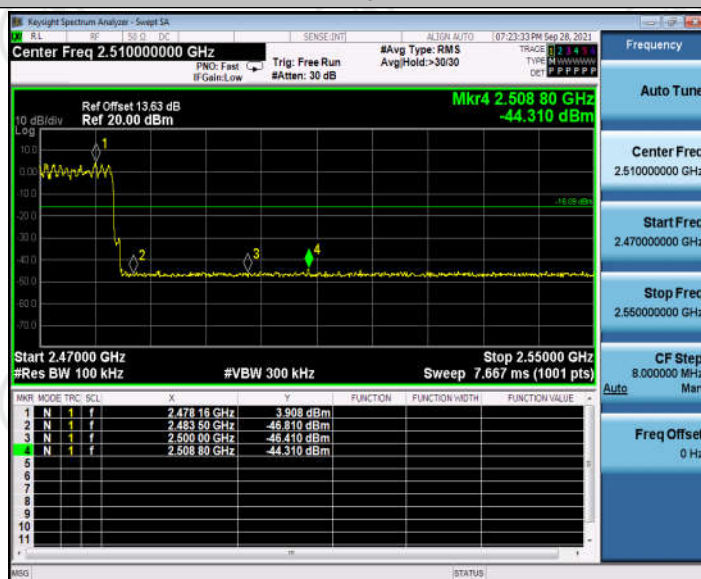


3DH5_Ant1_Low_2402





3DH5_Ant1_High_Hop_2480

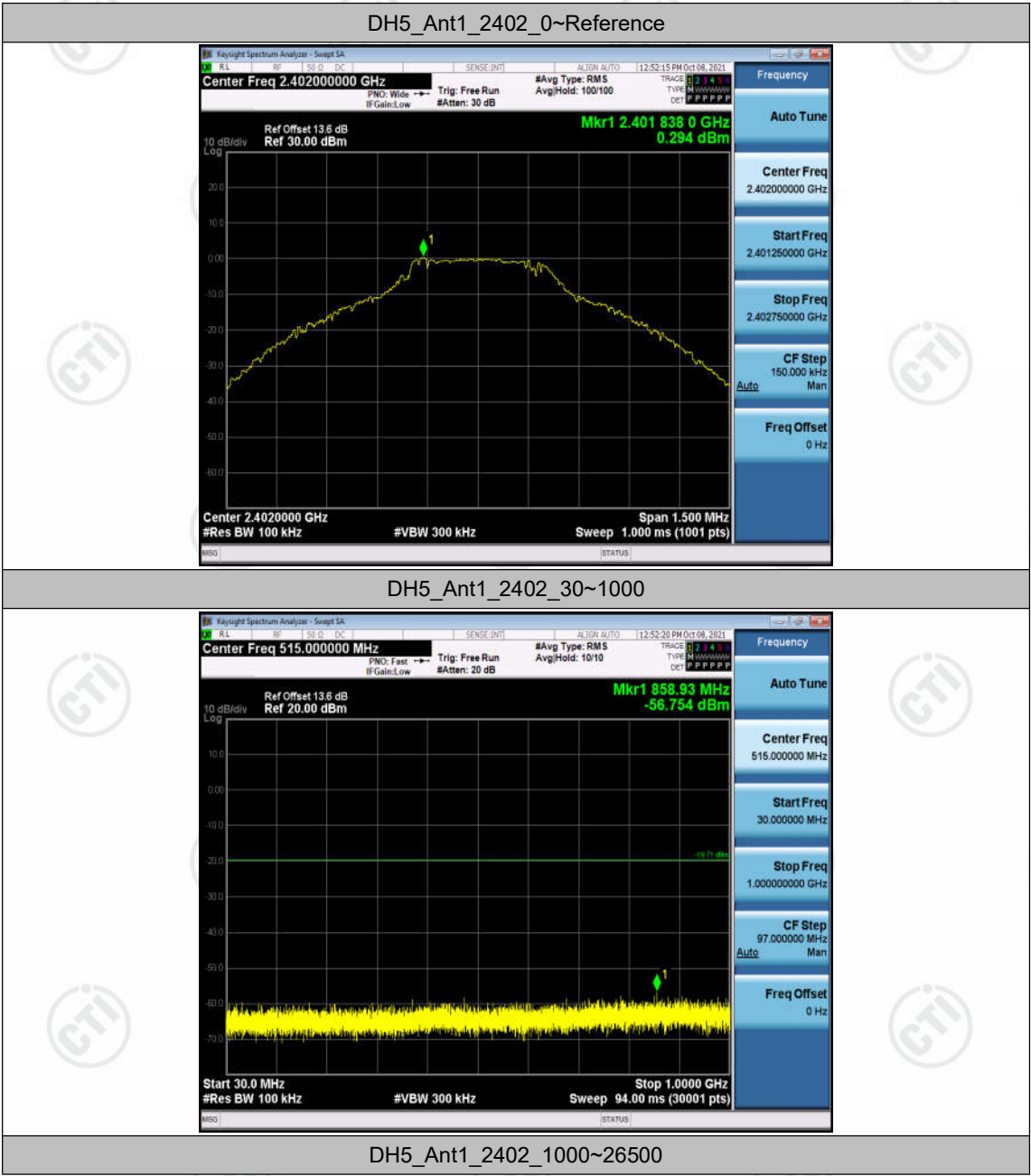


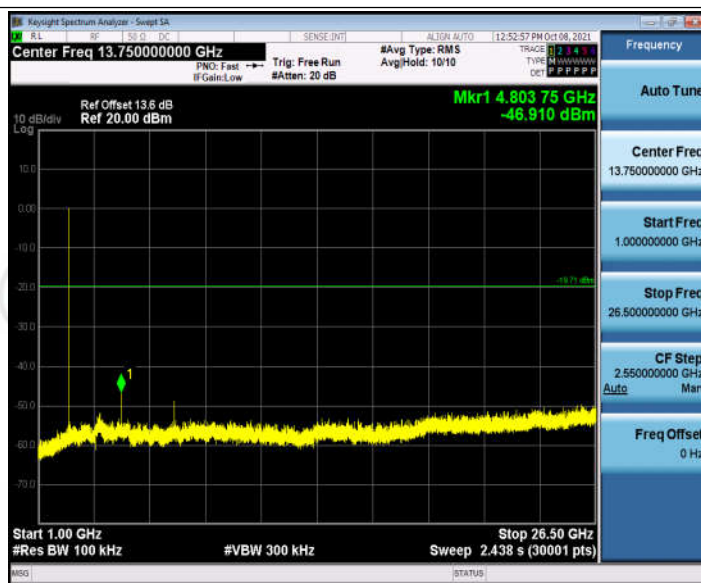
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.29	0.29	---	PASS
			30~1000	30~1000	-56.754	<=-19.706	PASS
			1000~26500	1000~26500	-46.91	<=-19.706	PASS
		2441	Reference	1.03	1.03	---	PASS
			30~1000	30~1000	-55.962	<=-18.972	PASS
			1000~26500	1000~26500	-44.478	<=-18.972	PASS
		2480	Reference	0.85	0.85	---	PASS
			30~1000	30~1000	-56.981	<=-19.146	PASS
			1000~26500	1000~26500	-49.054	<=-19.146	PASS
2DH5	Ant1	2402	Reference	-0.53	-0.53	---	PASS
			30~1000	30~1000	-45.91	<=-20.526	PASS
			1000~26500	1000~26500	-47.022	<=-20.526	PASS
		2441	Reference	0.54	0.54	---	PASS
			30~1000	30~1000	-57.689	<=-19.461	PASS
			1000~26500	1000~26500	-46.447	<=-19.461	PASS
		2480	Reference	0.51	0.51	---	PASS
			30~1000	30~1000	-56.519	<=-19.494	PASS
			1000~26500	1000~26500	-49.285	<=-19.494	PASS
3DH5	Ant1	2402	Reference	-0.03	-0.03	---	PASS
			30~1000	30~1000	-51.687	<=-20.034	PASS
			1000~26500	1000~26500	-44.924	<=-20.034	PASS
		2441	Reference	0.40	0.40	---	PASS
			30~1000	30~1000	-57.805	<=-19.596	PASS
			1000~26500	1000~26500	-47.445	<=-19.596	PASS
		2480	Reference	0.01	0.01	---	PASS
			30~1000	30~1000	-57.321	<=-19.986	PASS
			1000~26500	1000~26500	-49.307	<=-19.986	PASS

Test Graphs

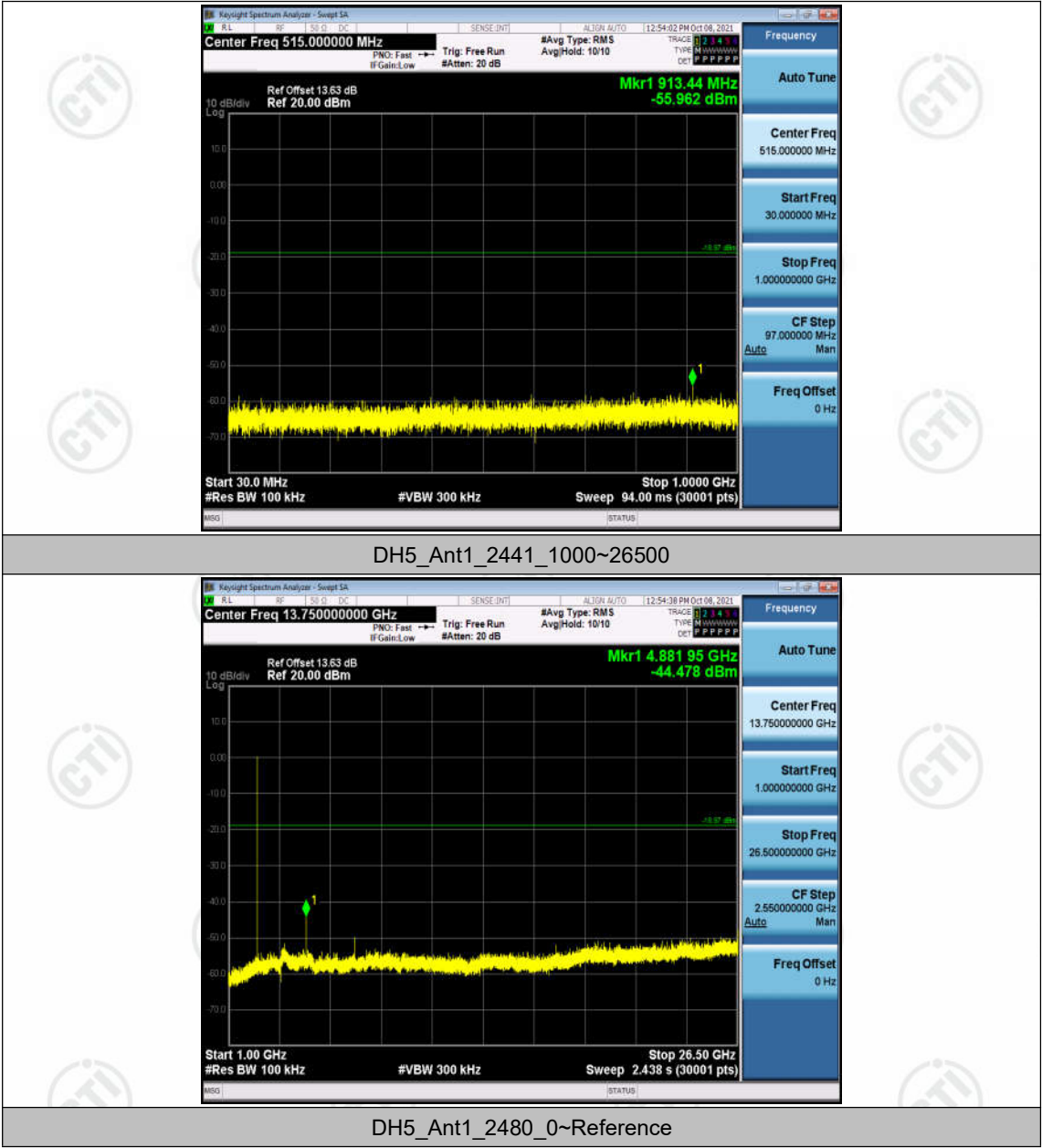


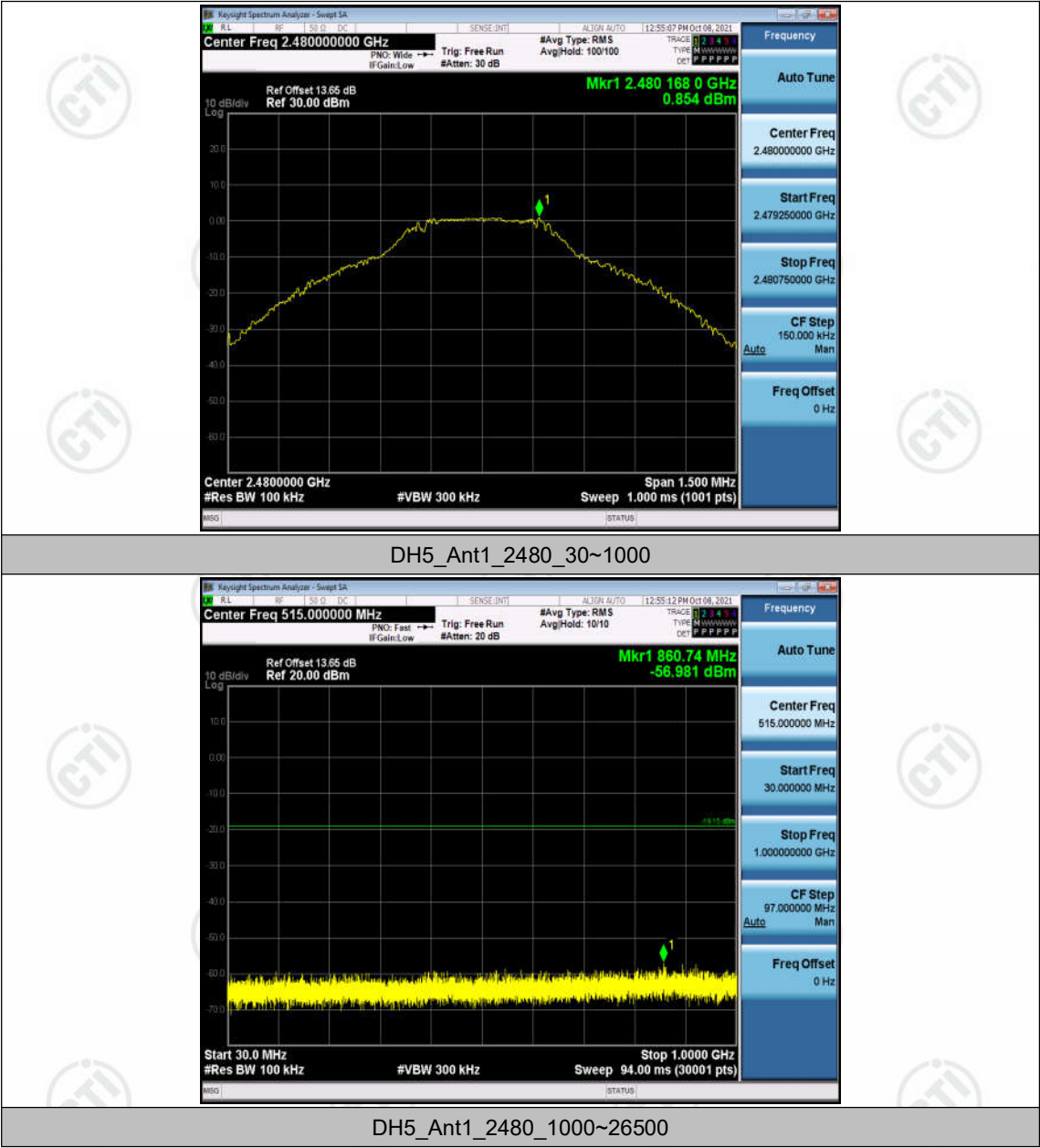


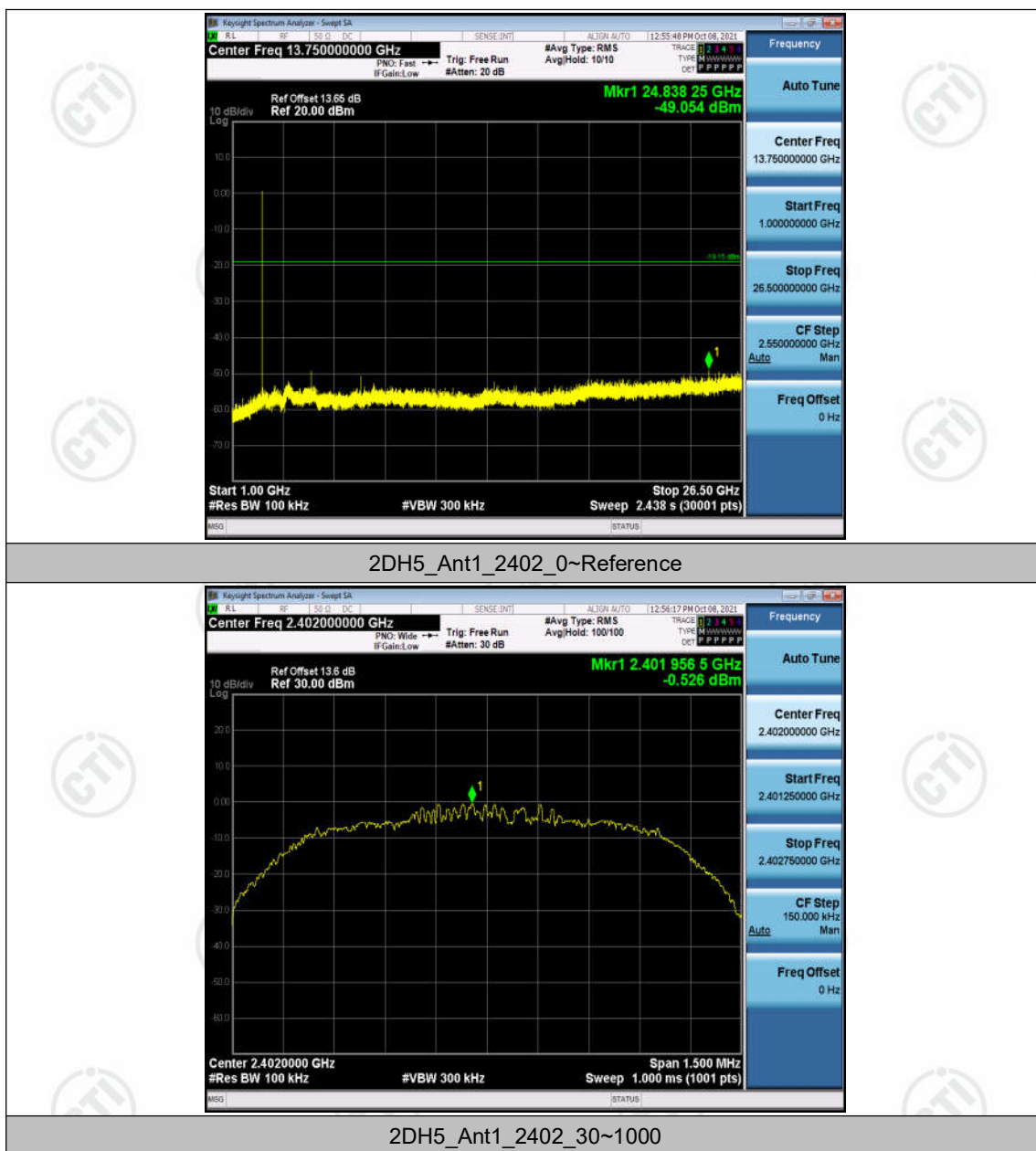
DH5_Ant1_2441_0~Reference

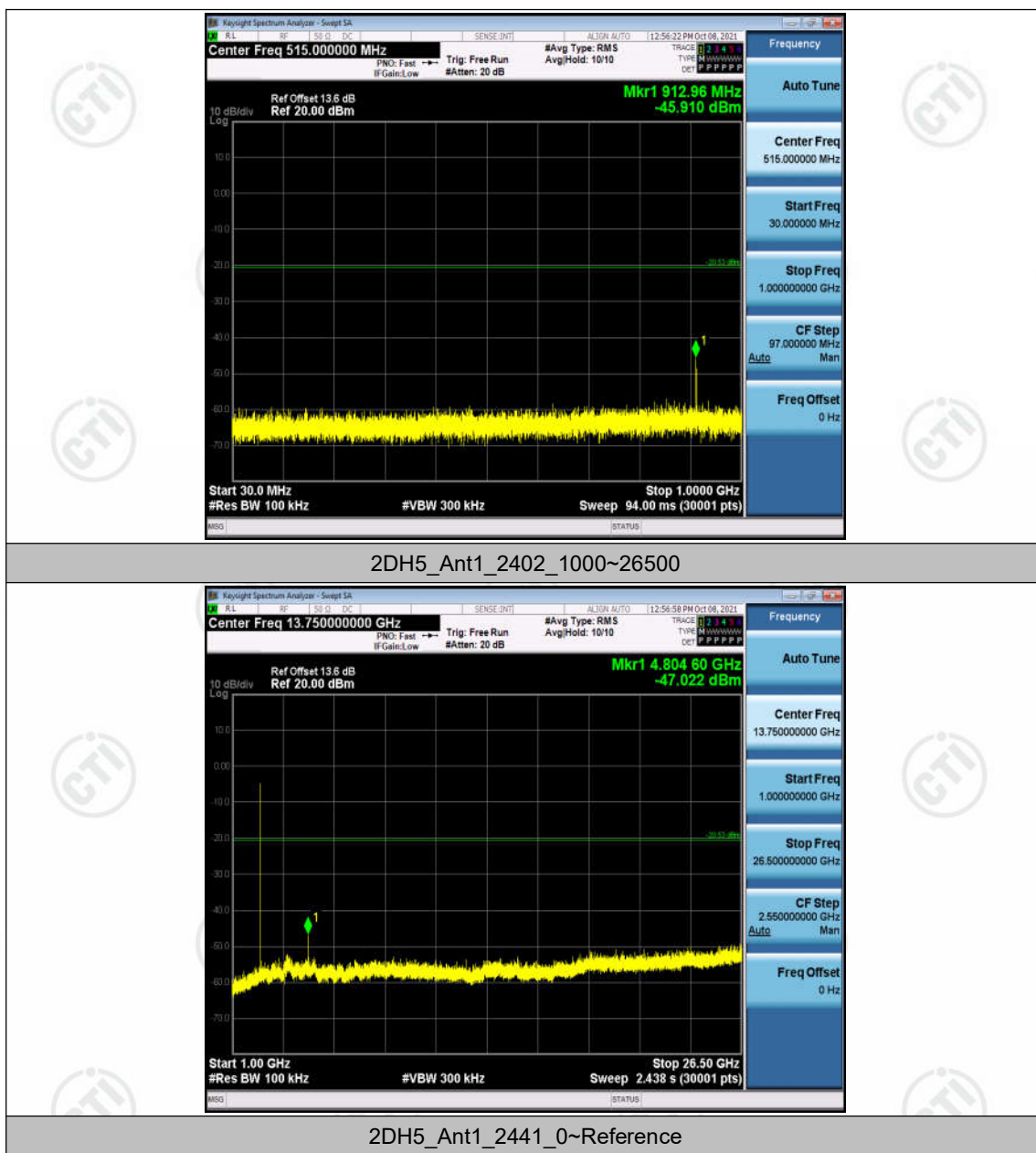


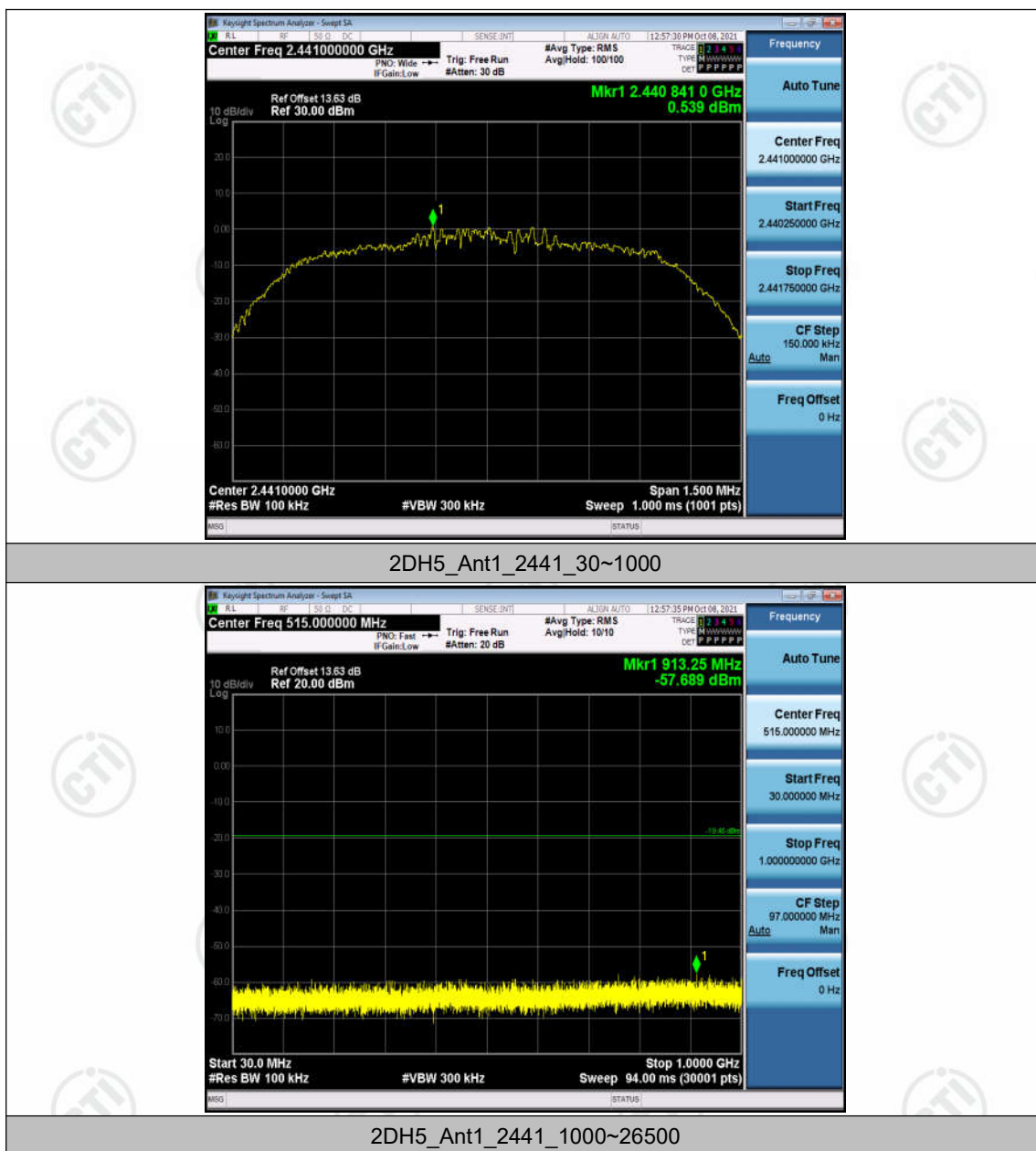
DH5_Ant1_2441_30~1000

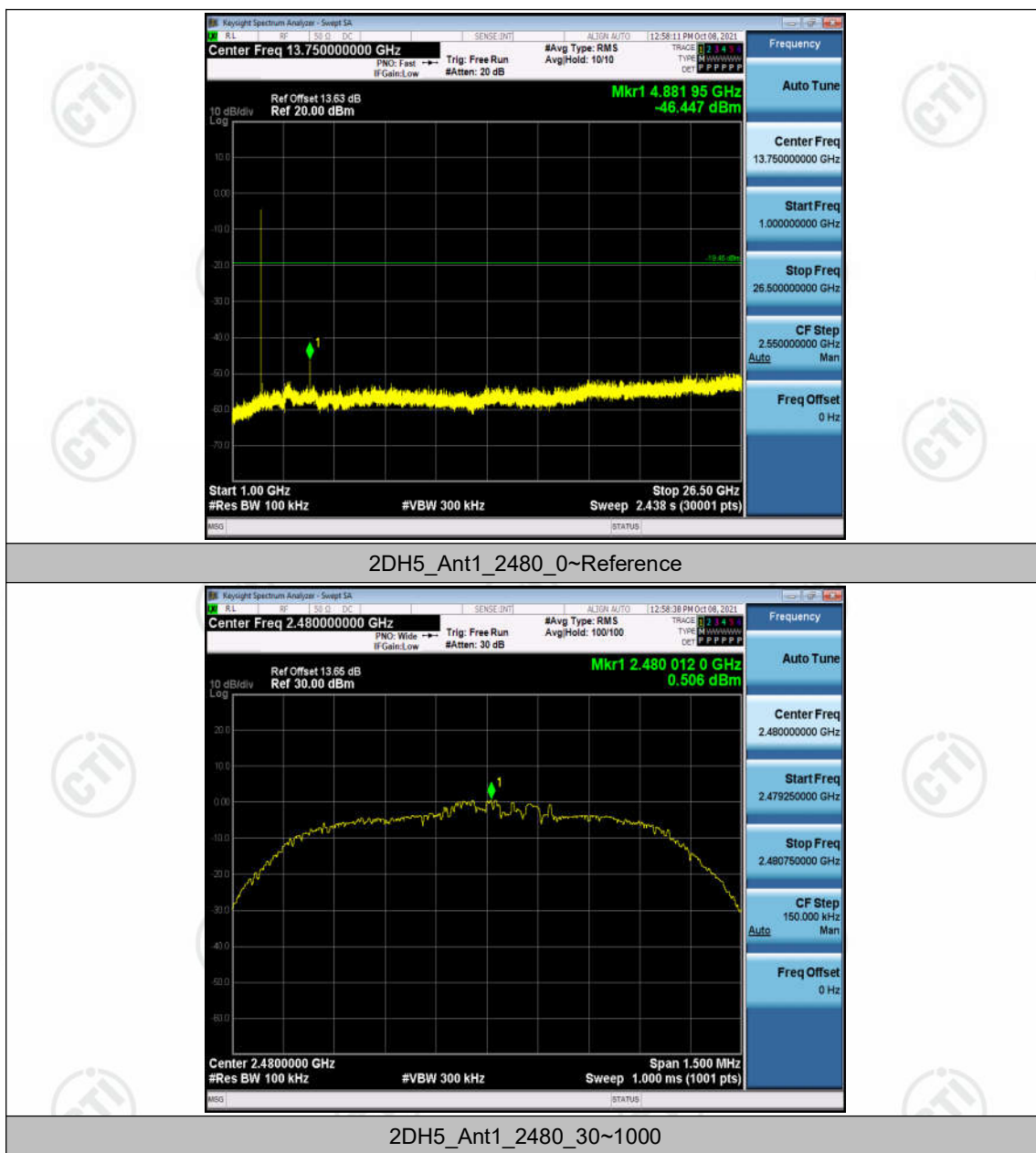


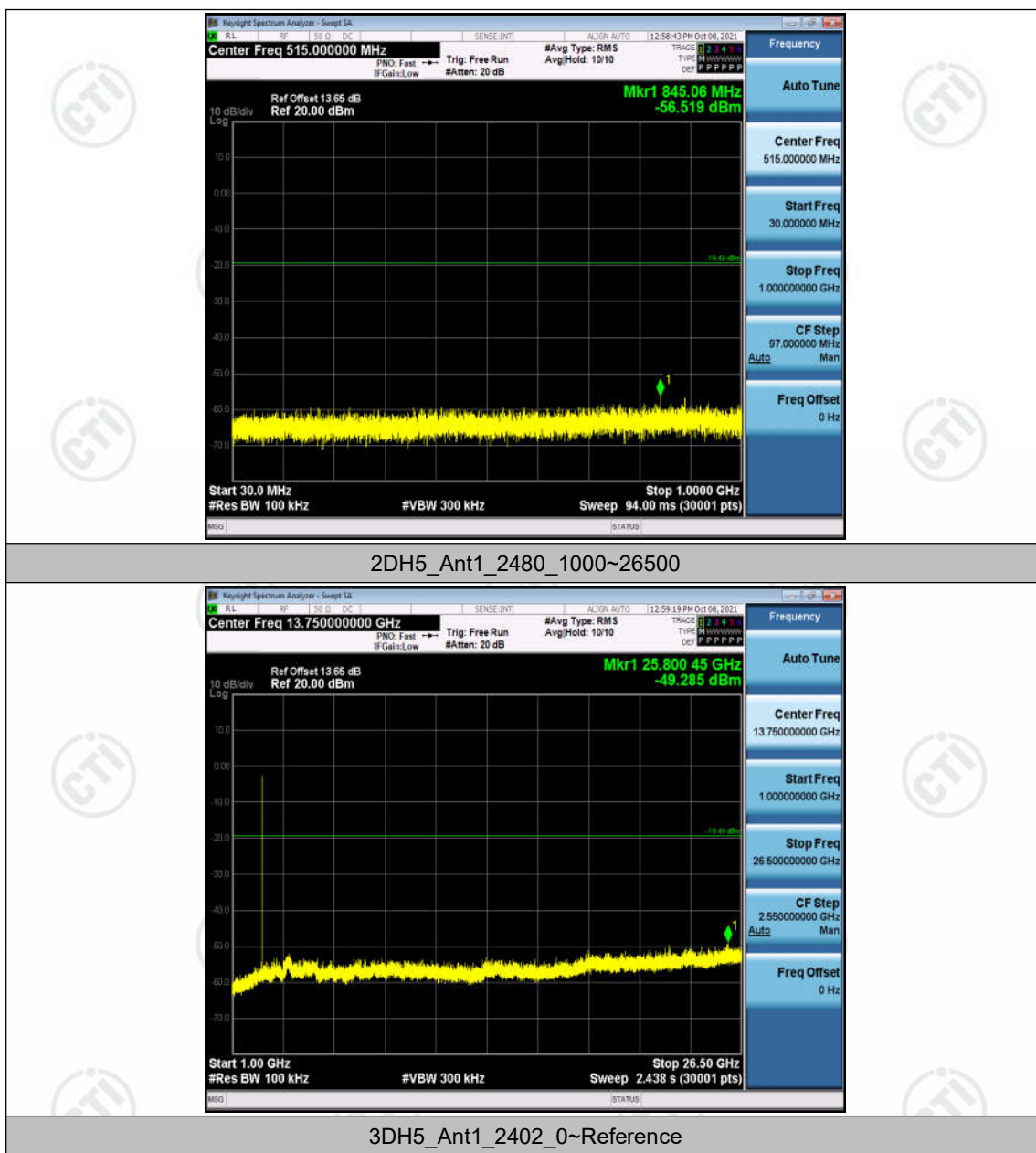


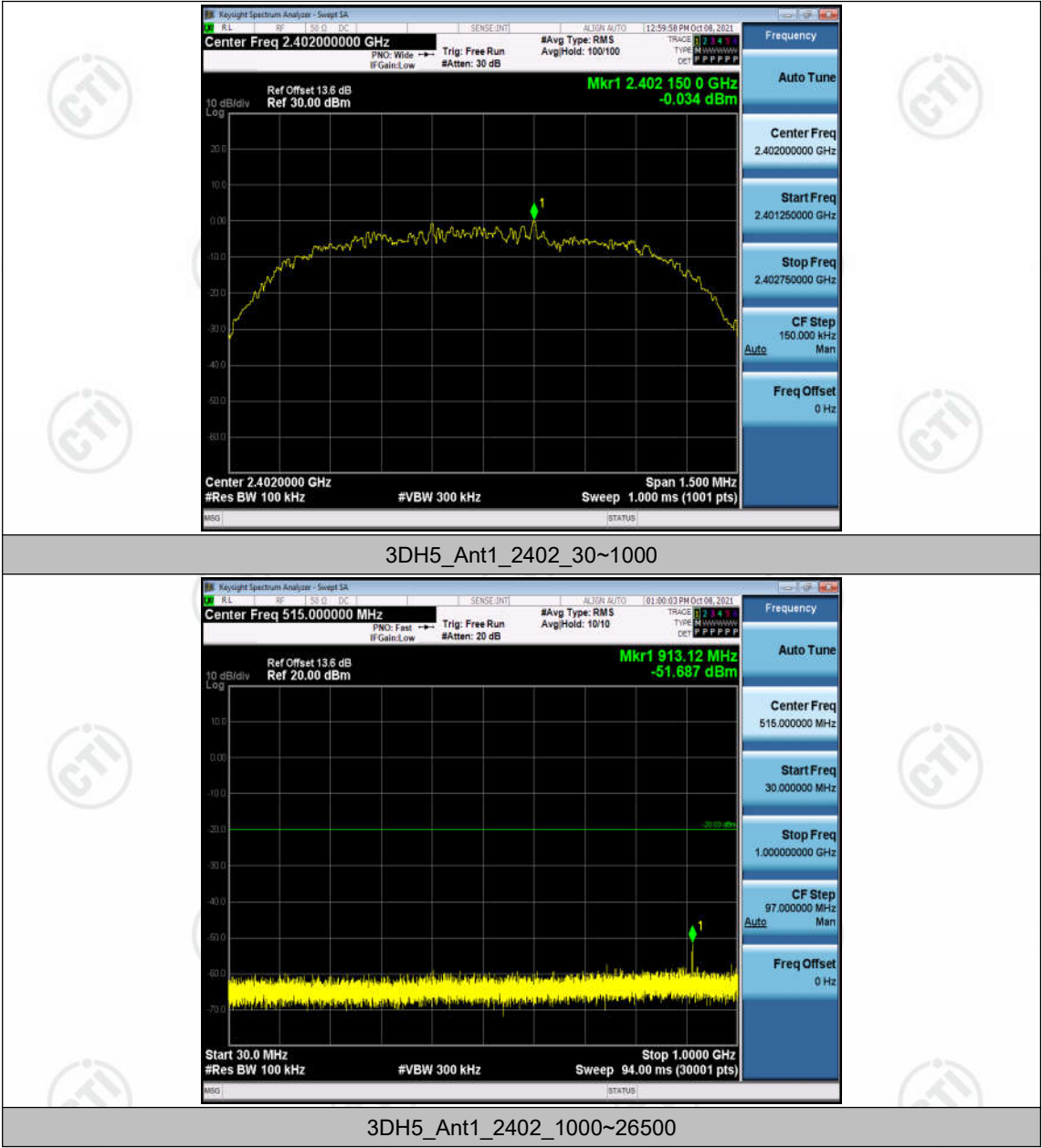


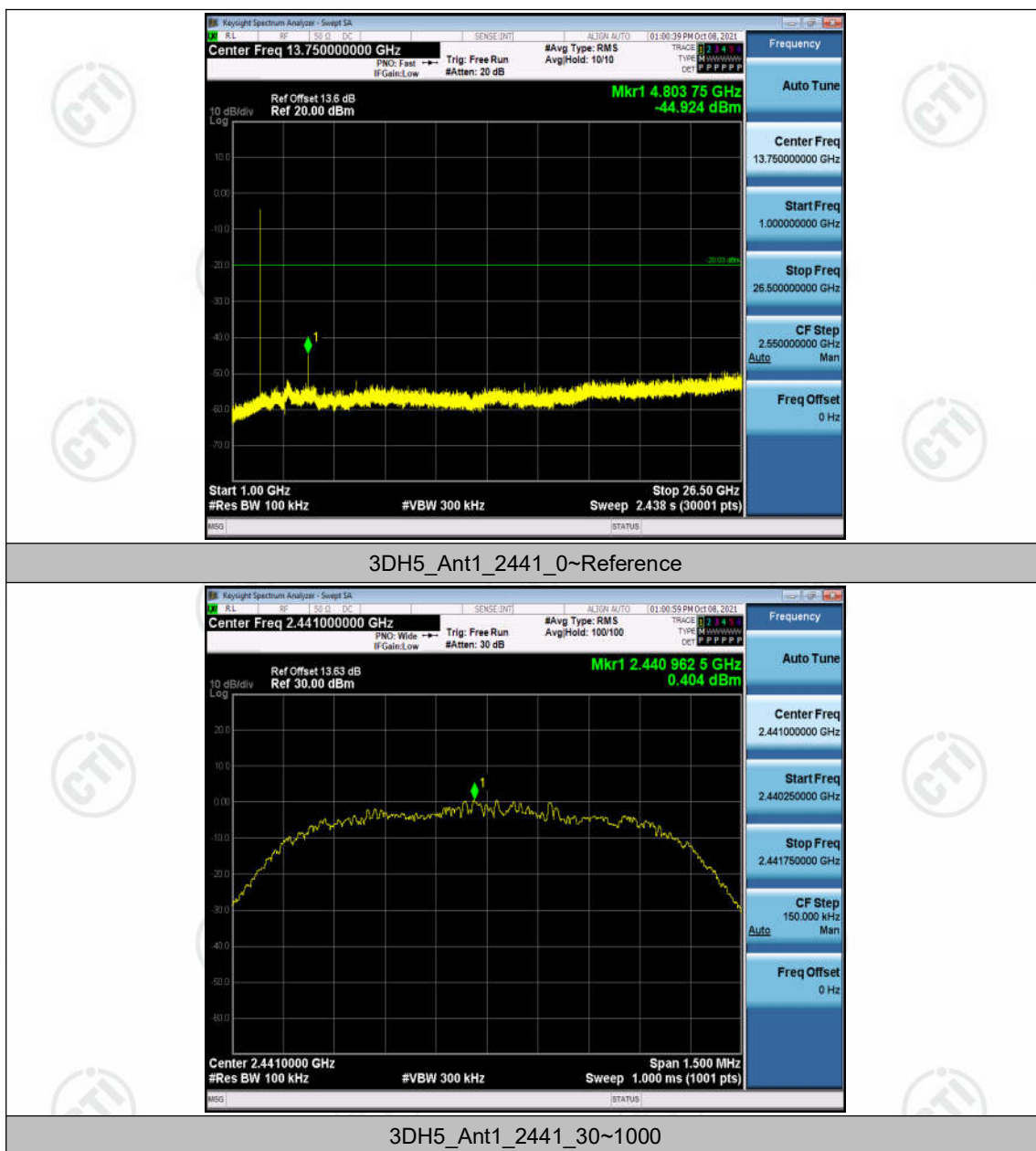


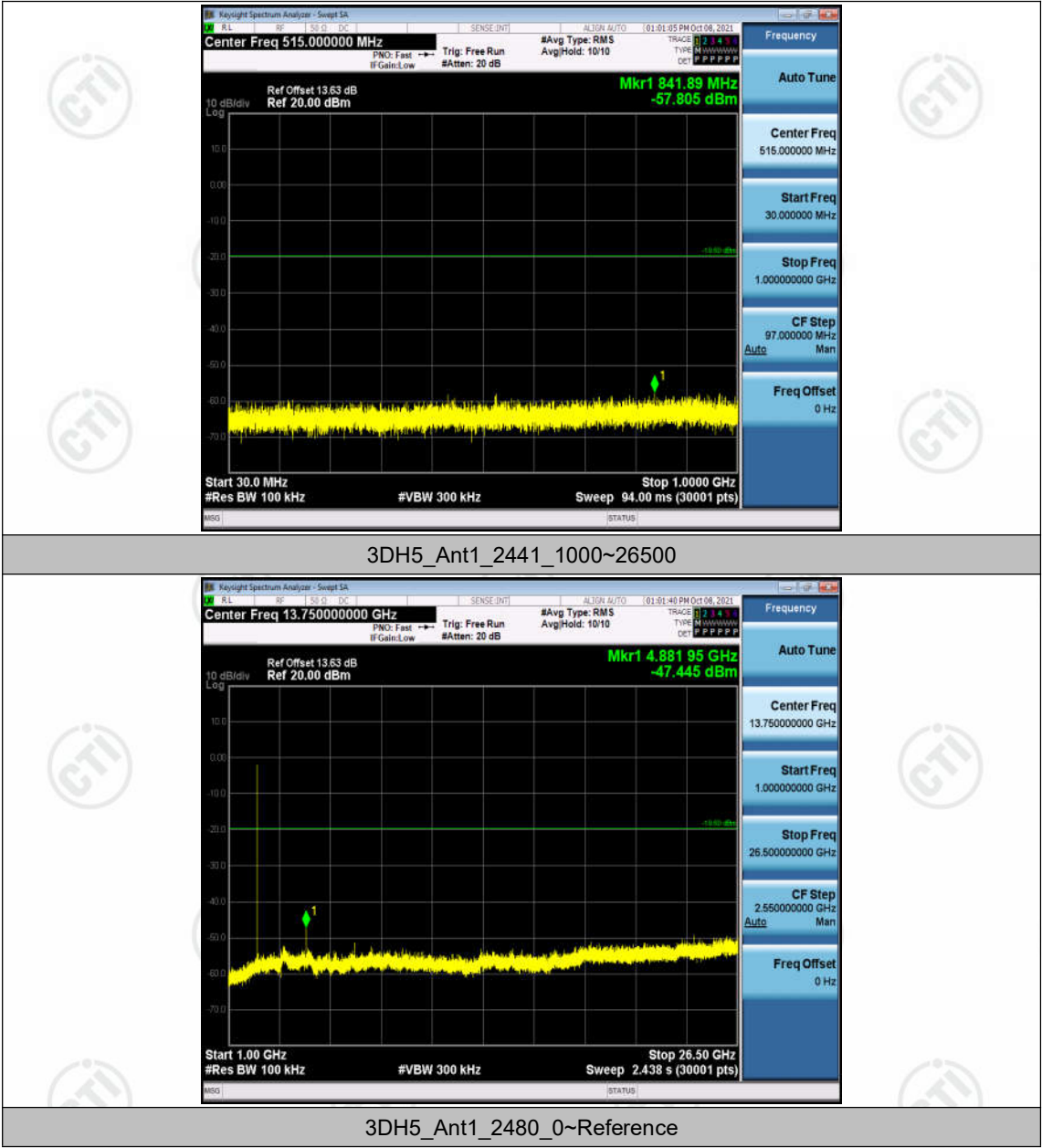


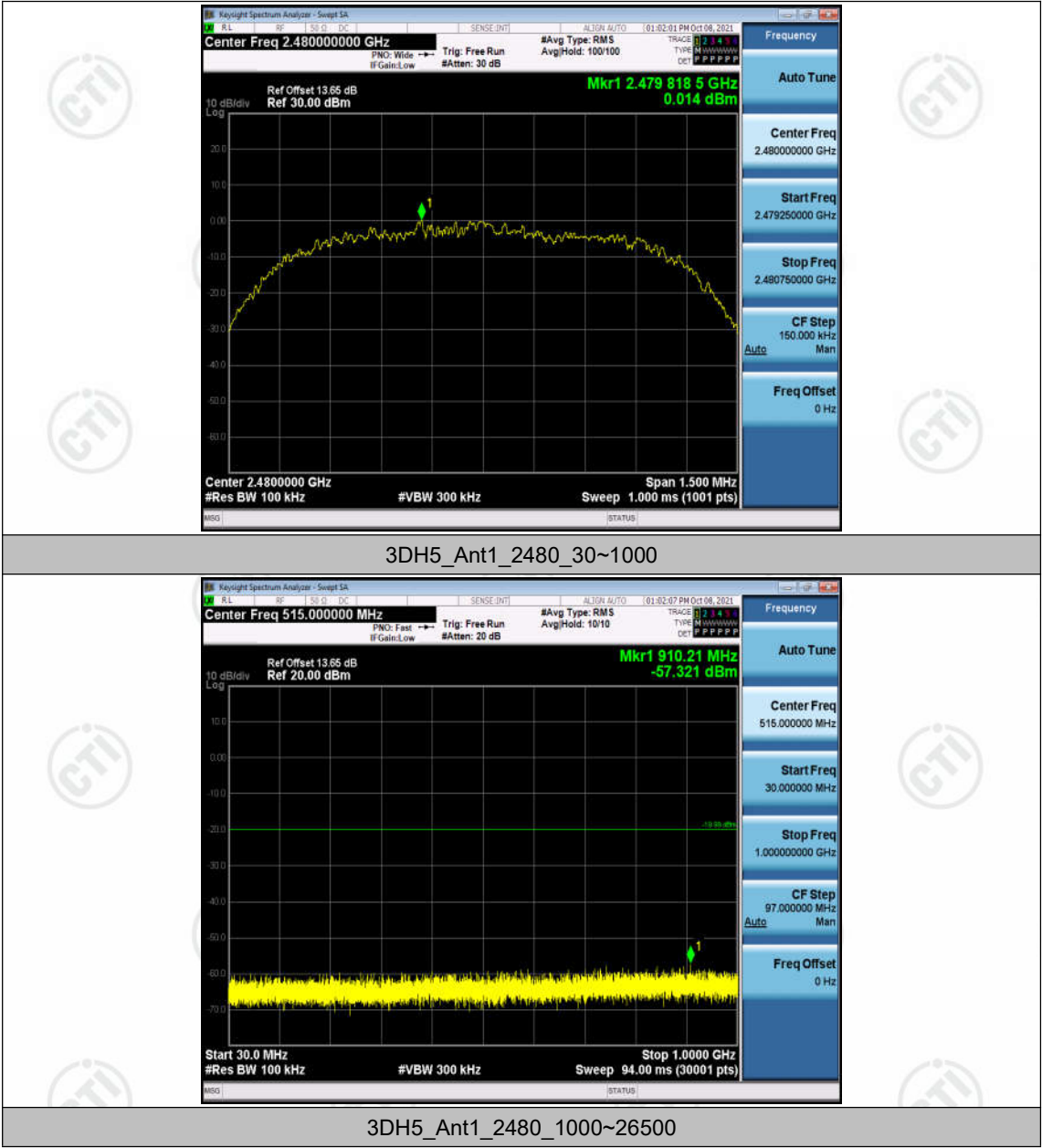


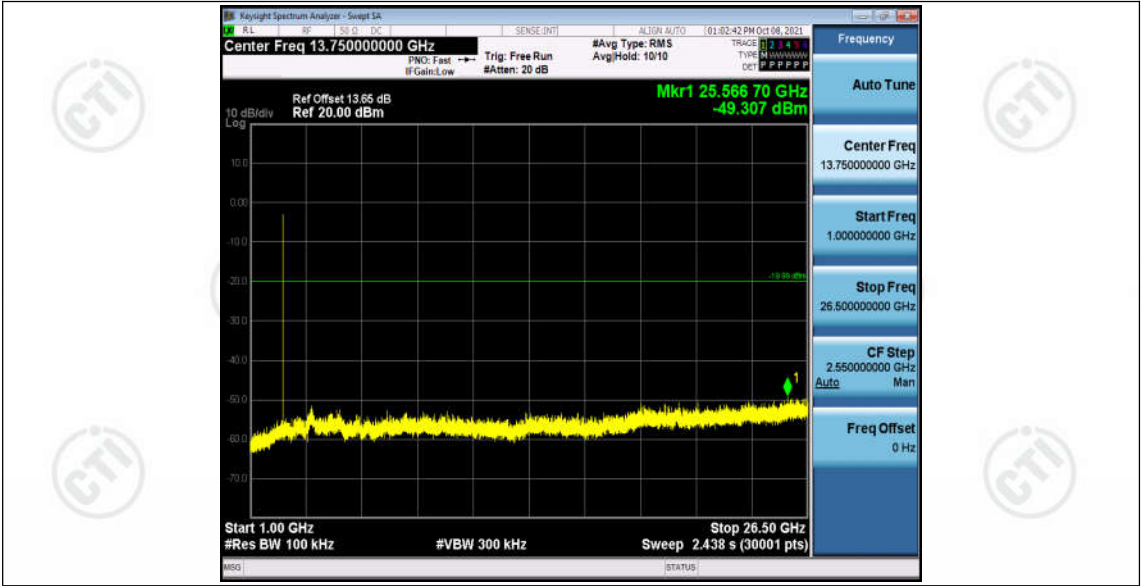










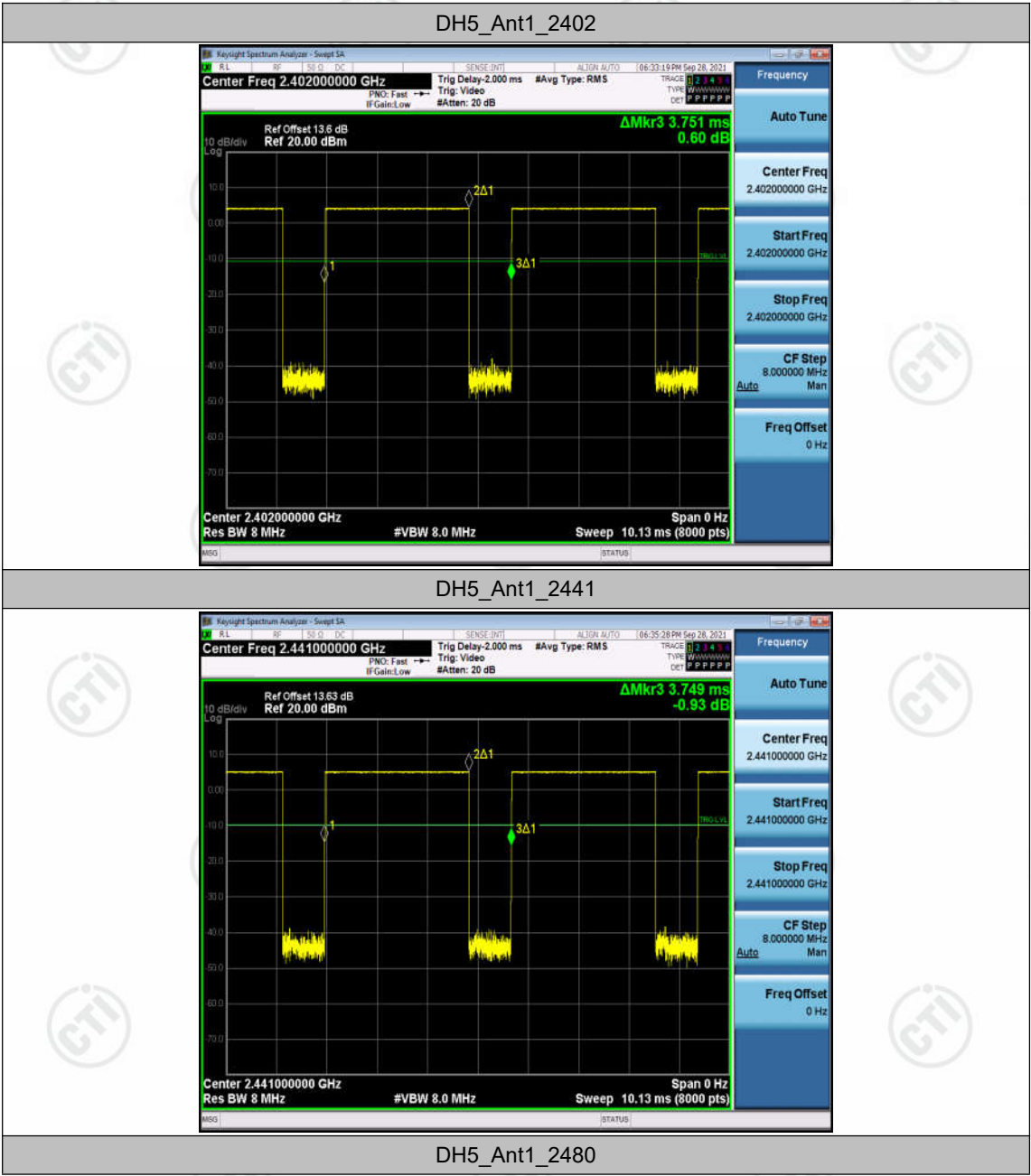


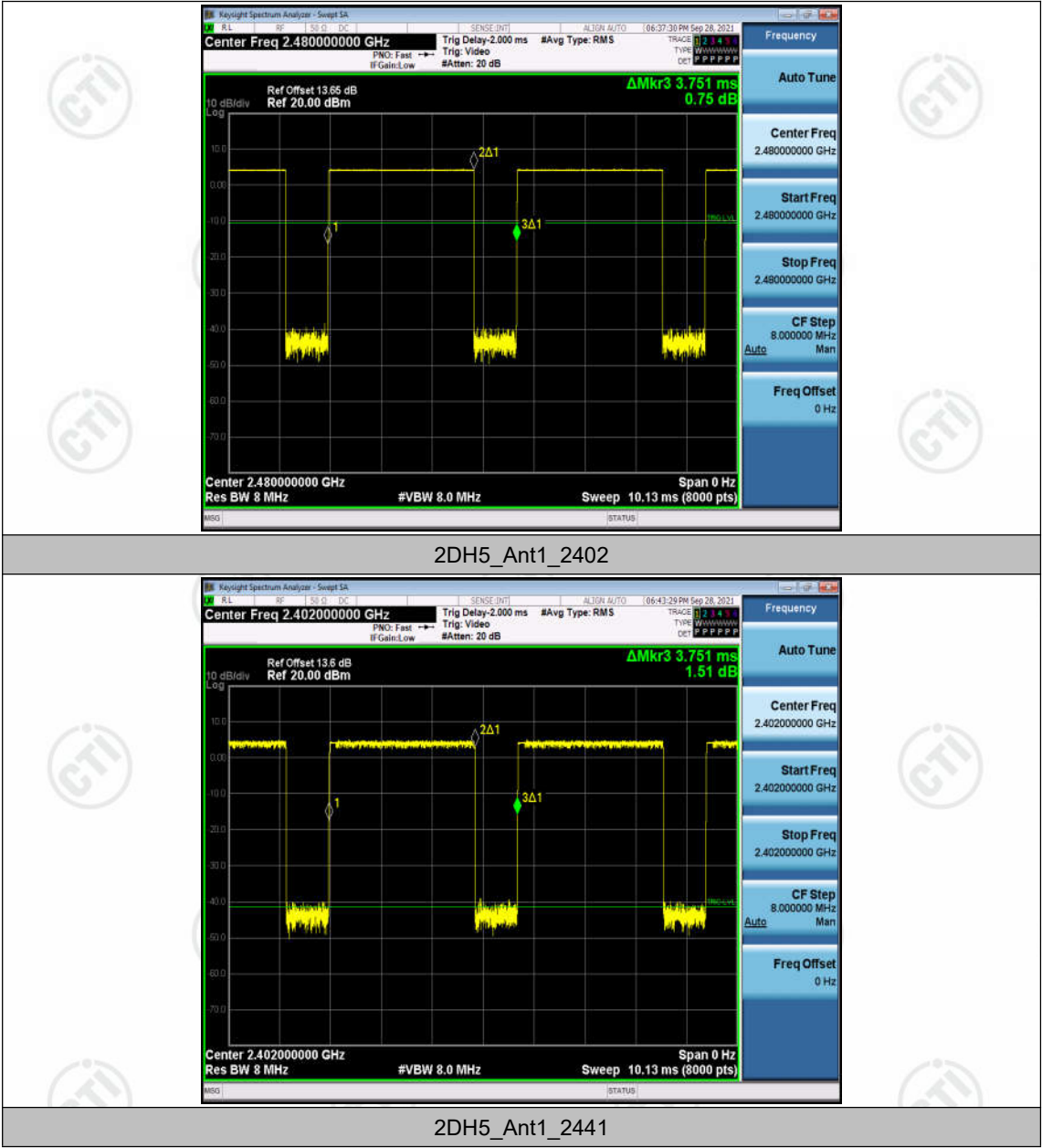
Appendix I: Duty Cycle

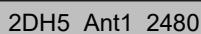
Test Result

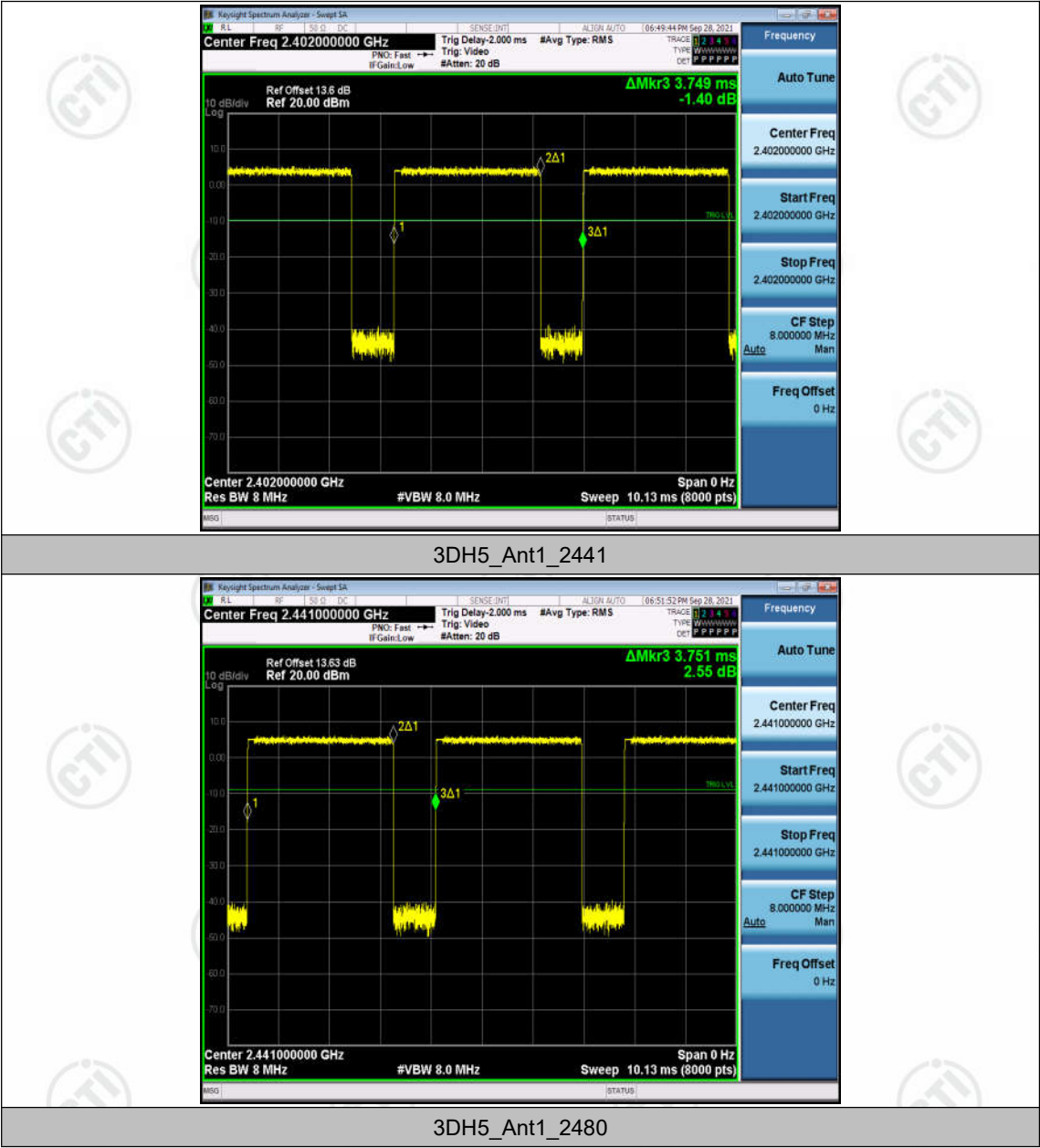
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	77.30	---	PASS
		2441	2.90	3.75	77.33	---	PASS
		2480	2.90	3.75	77.30	---	PASS
2DH5	Ant1	2402	2.91	3.75	77.47	---	PASS
		2441	2.90	3.75	77.47	---	PASS
		2480	2.90	3.75	77.47	---	PASS
3DH5	Ant1	2402	2.91	3.75	77.57	---	PASS
		2441	2.91	3.75	77.54	---	PASS
		2480	2.91	3.75	77.57	---	PASS

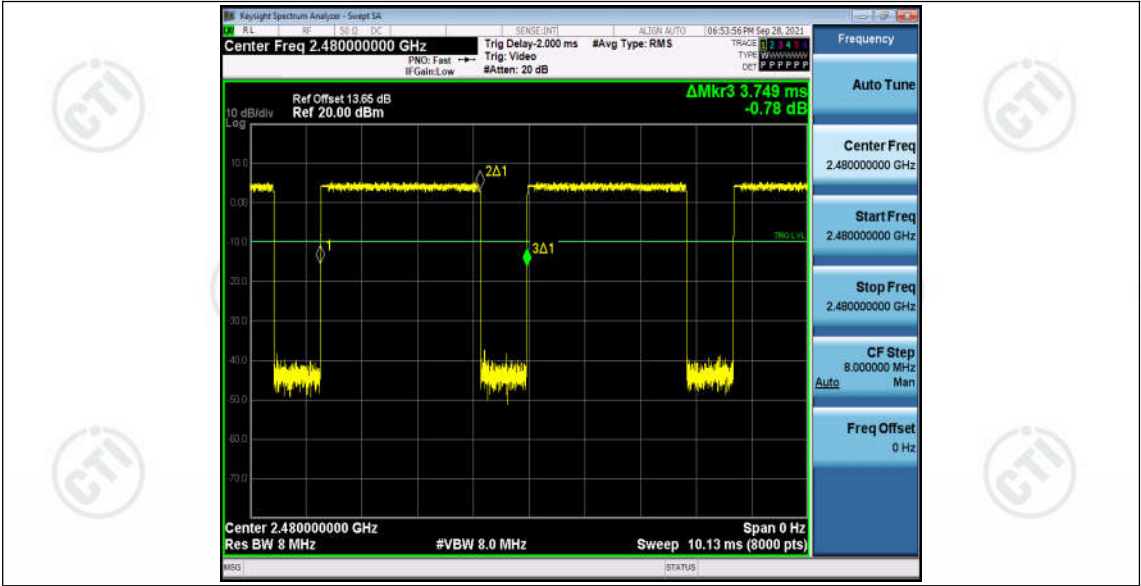
Test Graphs











*** End of Report ***