

Appendix: Bluetooth Classic

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Appendix A: 20dBEmission Bandwidth**Test Result**

Test Mode	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	2402	0.858	2401.544	2402.402	---	PASS
	2441	0.861	2440.541	2441.402	---	PASS
	2480	0.864	2479.538	2480.402	---	PASS
2DH5	2402	1.392	2401.301	2402.693	---	PASS
	2441	1.392	2440.298	2441.690	---	PASS
	2480	1.395	2479.295	2480.690	---	PASS
3DH5	2402	1.401	2401.304	2402.705	---	PASS
	2441	1.404	2440.298	2441.702	---	PASS
	2480	1.404	2479.298	2480.702	---	PASS

Test Graphs

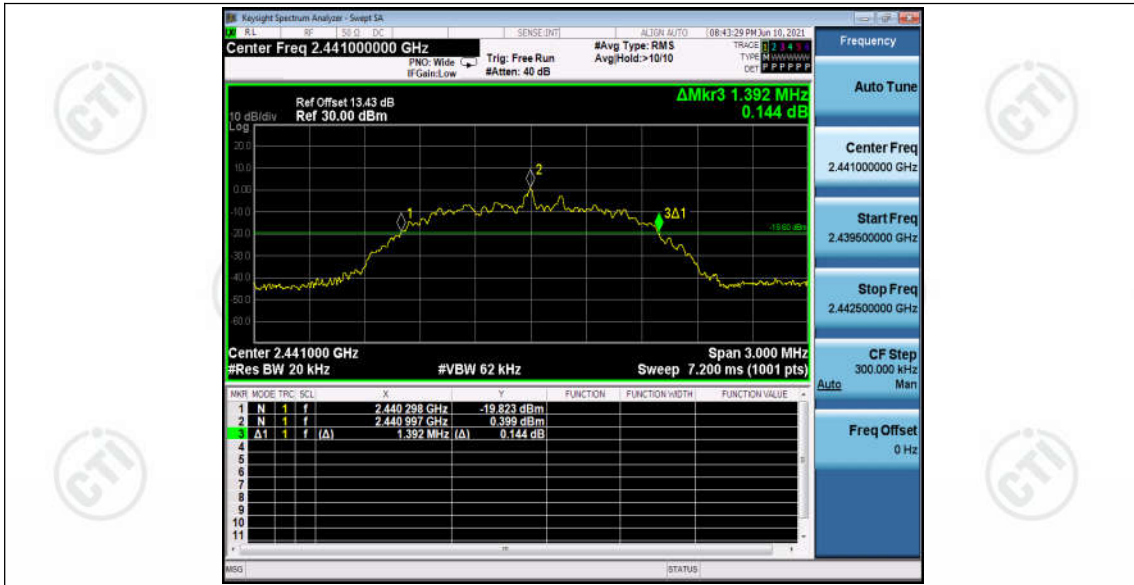




DH5_2480



2DH5_2402



2DH5_2441



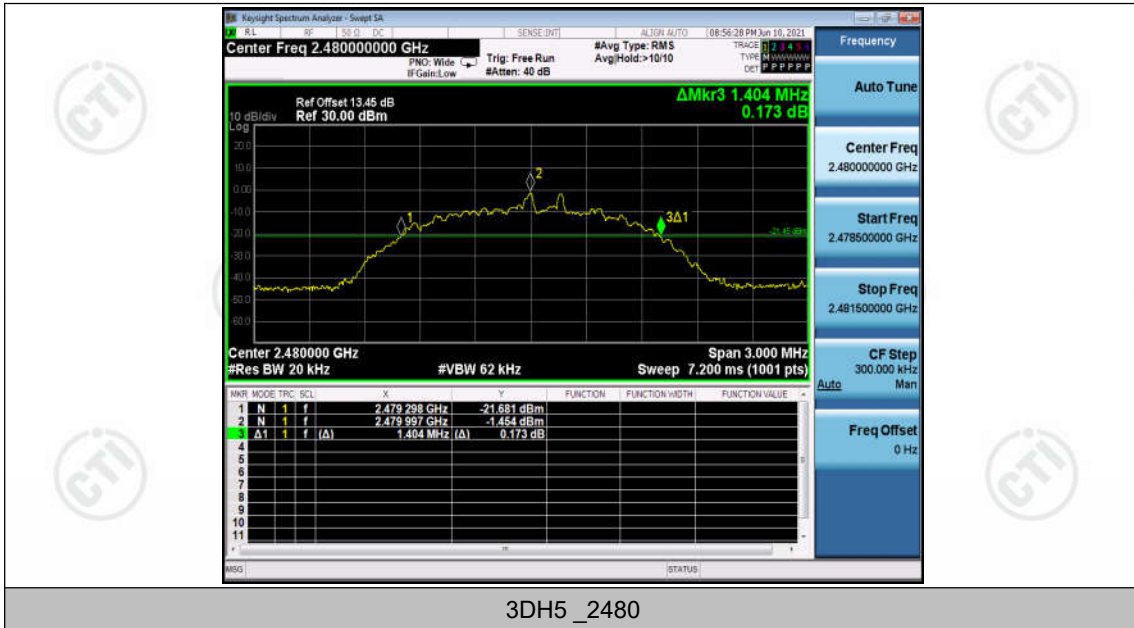
2DH5_2480



3DH5_2402



3DH5_2441



Appendix B: Occupied Channel Bandwidth**Test Result**

Test Mode	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	2402	0.85652	2401.571	2402.427	---	PASS
	2441	0.85865	2440.564	2441.423	---	PASS
	2480	0.86561	2479.561	2480.427	---	PASS
2DH5	2402	1.3446	2401.327	2402.672	---	PASS
	2441	1.3472	2440.321	2441.669	---	PASS
	2480	1.3497	2479.319	2480.669	---	PASS
3DH5	2402	1.3480	2401.330	2402.678	---	PASS
	2441	1.3456	2440.326	2441.672	---	PASS
	2480	1.3485	2479.324	2480.673	---	PASS

Test Graphs

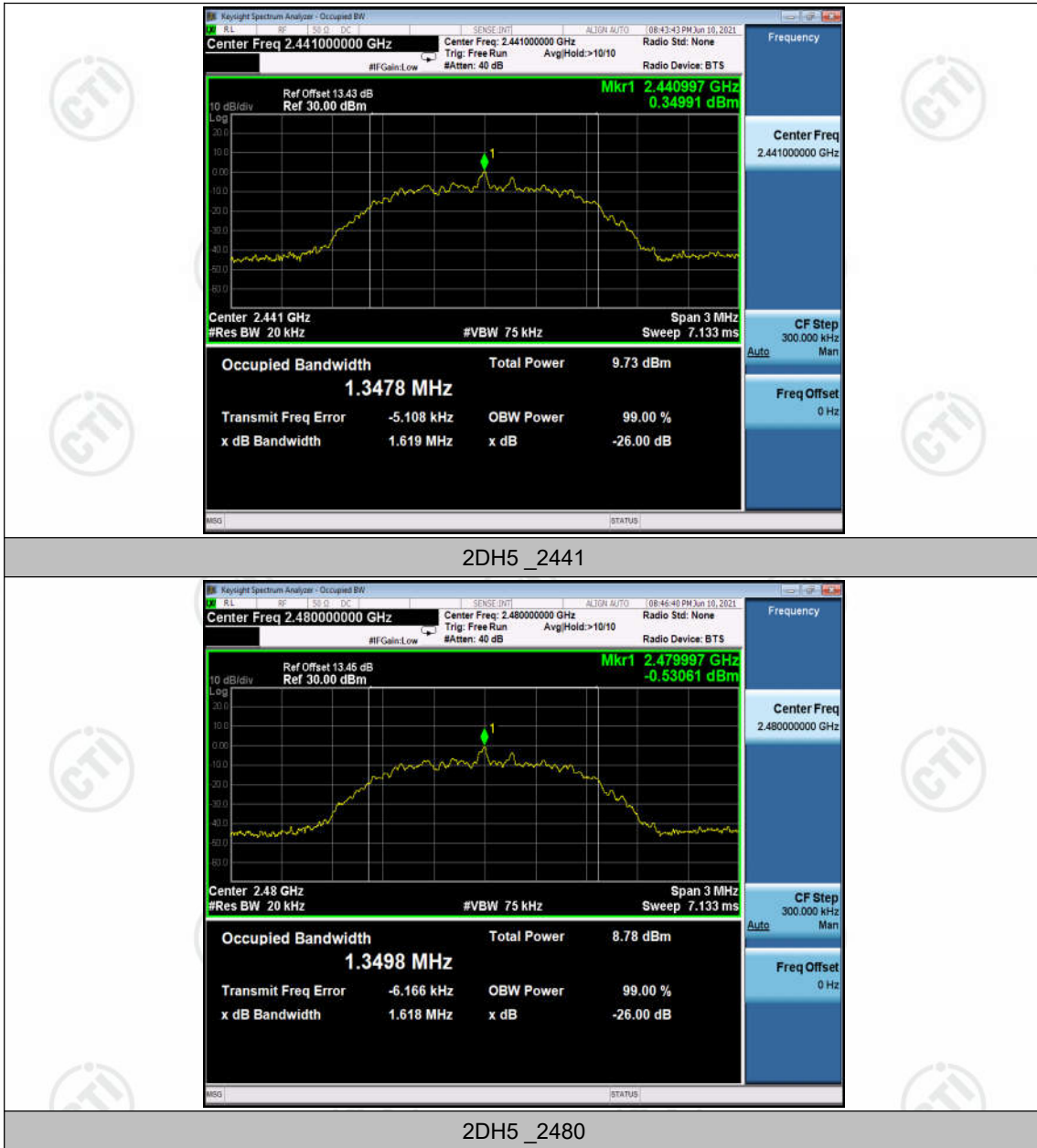




DH5_2480



2DH5_2402

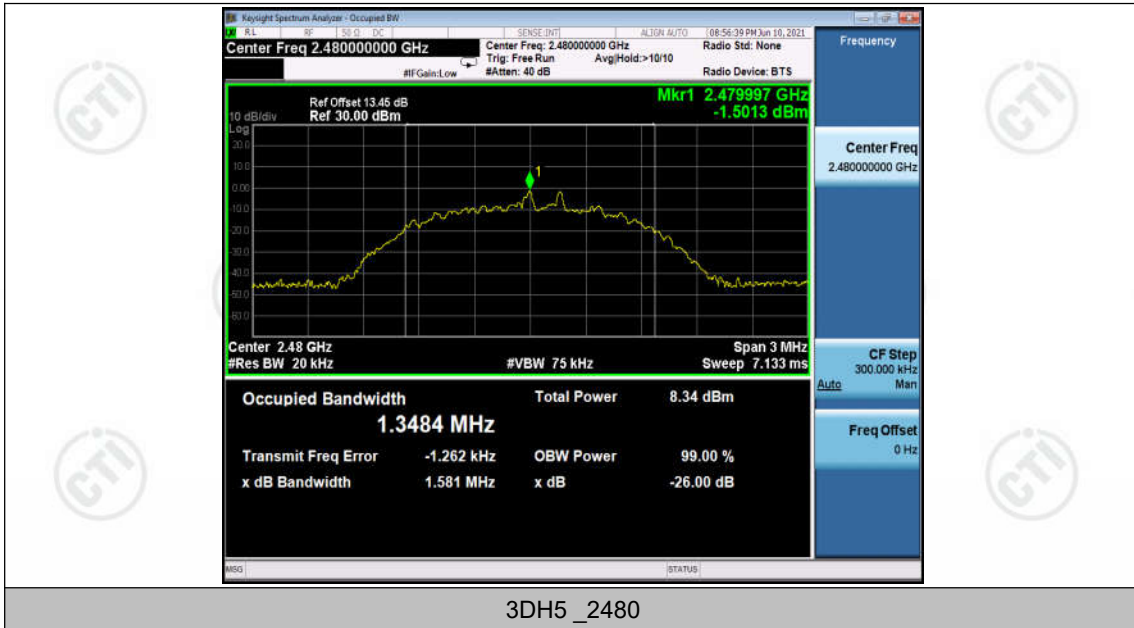




3DH5_2402



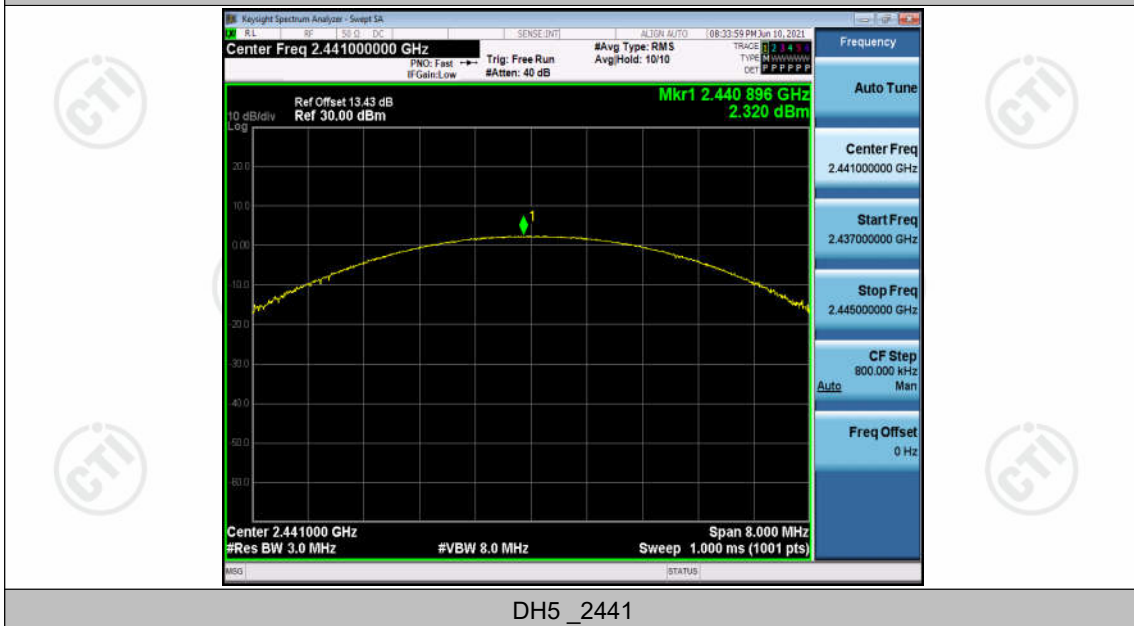
3DH5_2441



Appendix C: Maximum conducted output power**Test Result**

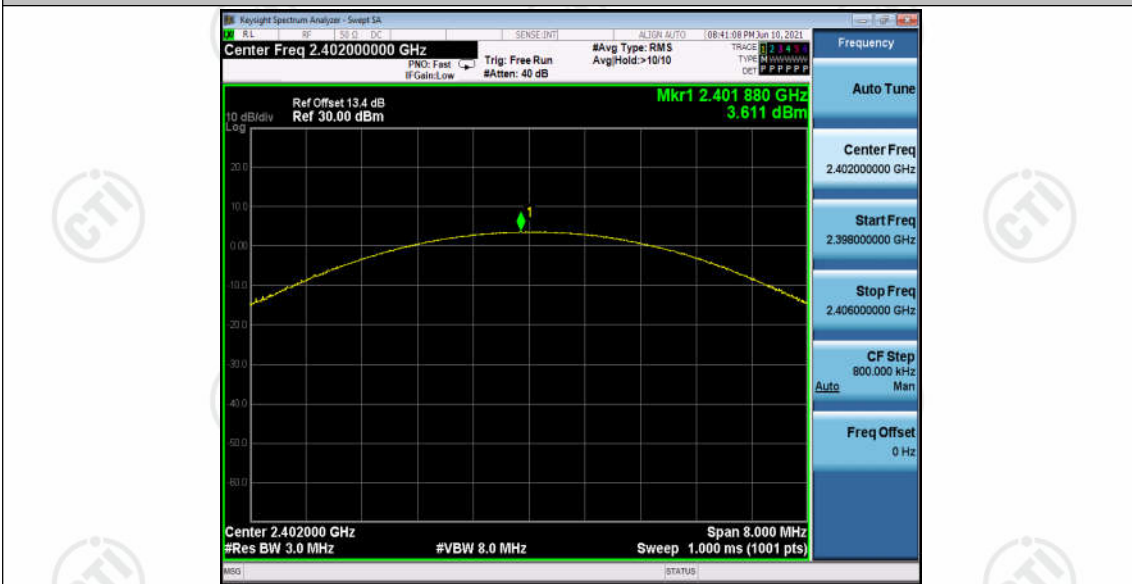
Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	2402	1.78	<=20.97	PASS
	2441	2.32	<=20.97	PASS
	2480	-0.94	<=20.97	PASS
2DH5	2402	3.61	<=20.97	PASS
	2441	4.33	<=20.97	PASS
	2480	3.51	<=20.97	PASS
3DH5	2402	3.01	<=20.97	PASS
	2441	3.75	<=20.97	PASS
	2480	2.77	<=20.97	PASS

Test Graphs





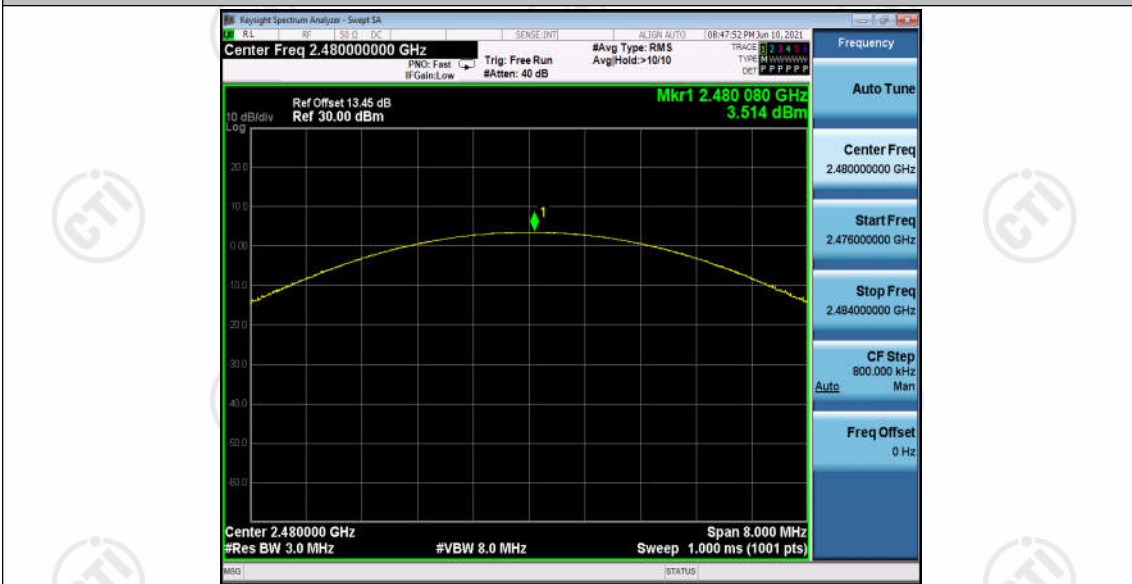
DH5_2480



2DH5_2402



2DH5_2441



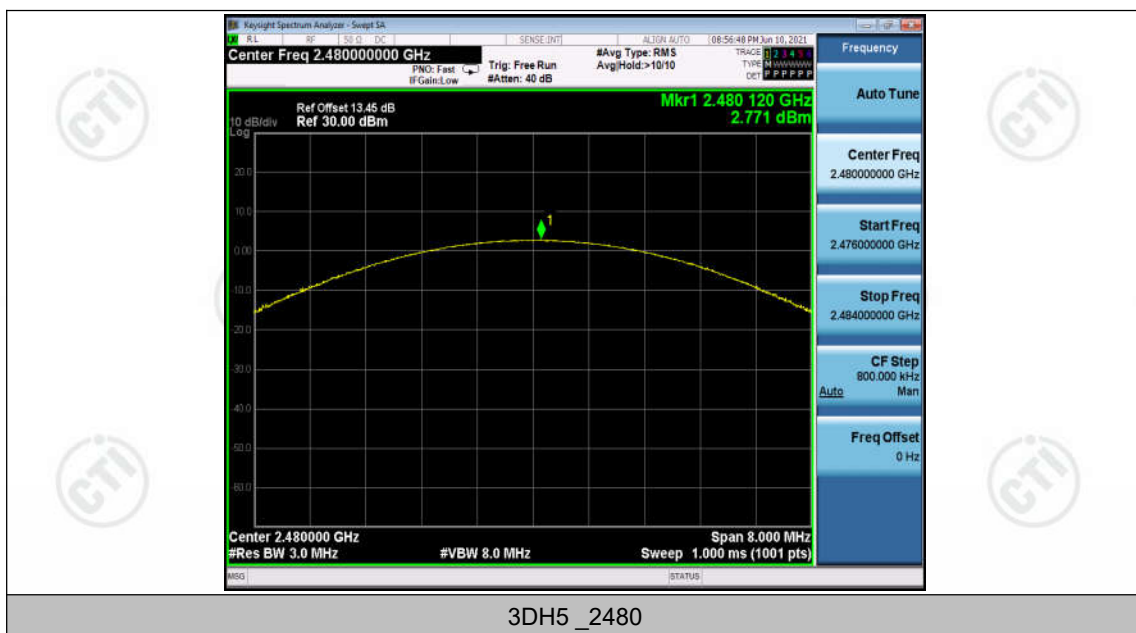
2DH5_2480



3DH5_2402



3DH5_2441

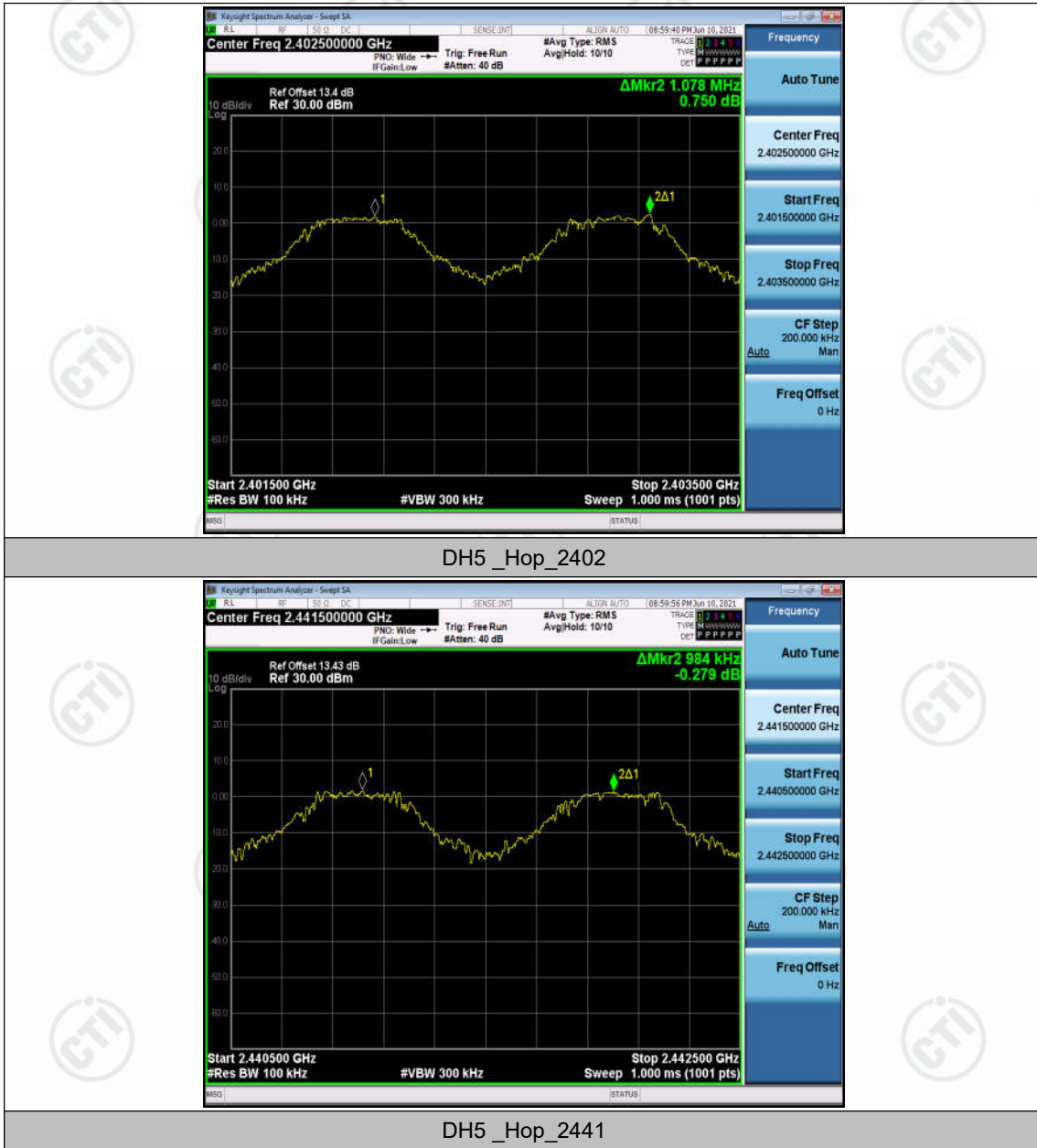


3DH5_2480

Appendix D: Carrier frequency separation**Test Result**

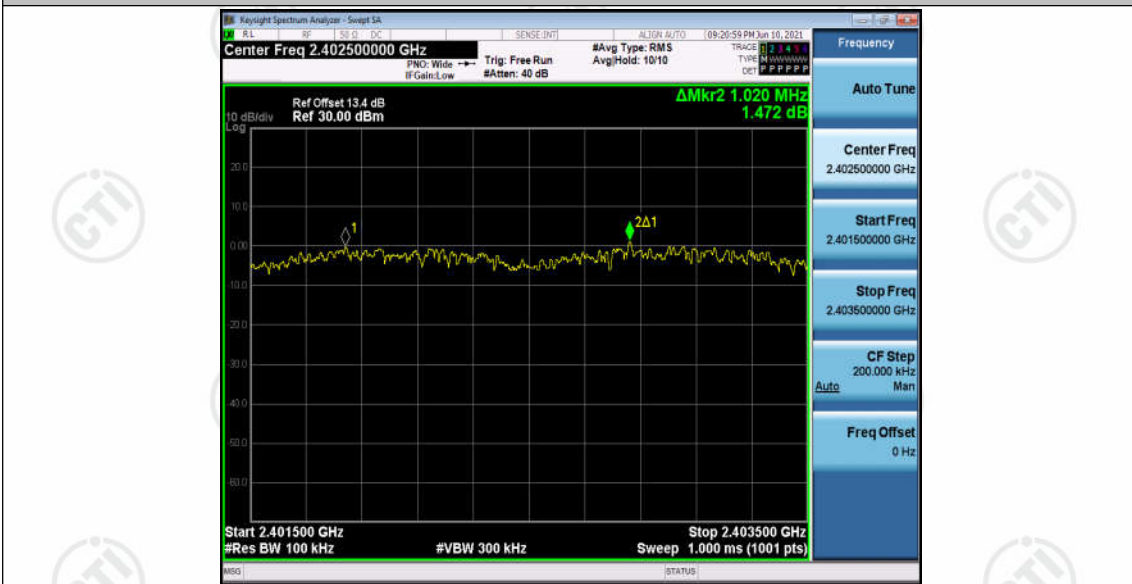
Test Mode	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Hop_2402	1.078	≥ 0.864	PASS
	Hop_2441	0.984	≥ 0.864	PASS
	Hop_2480	0.982	≥ 0.864	PASS
2DH5	Hop_2402	1.02	≥ 0.930	PASS
	Hop_2441	0.982	≥ 0.930	PASS
	Hop_2480	1	≥ 0.930	PASS
3DH5	Hop_2402	0.978	≥ 0.936	PASS
	Hop_2441	1.116	≥ 0.936	PASS
	Hop_2480	0.97	≥ 0.936	PASS

Test Graphs

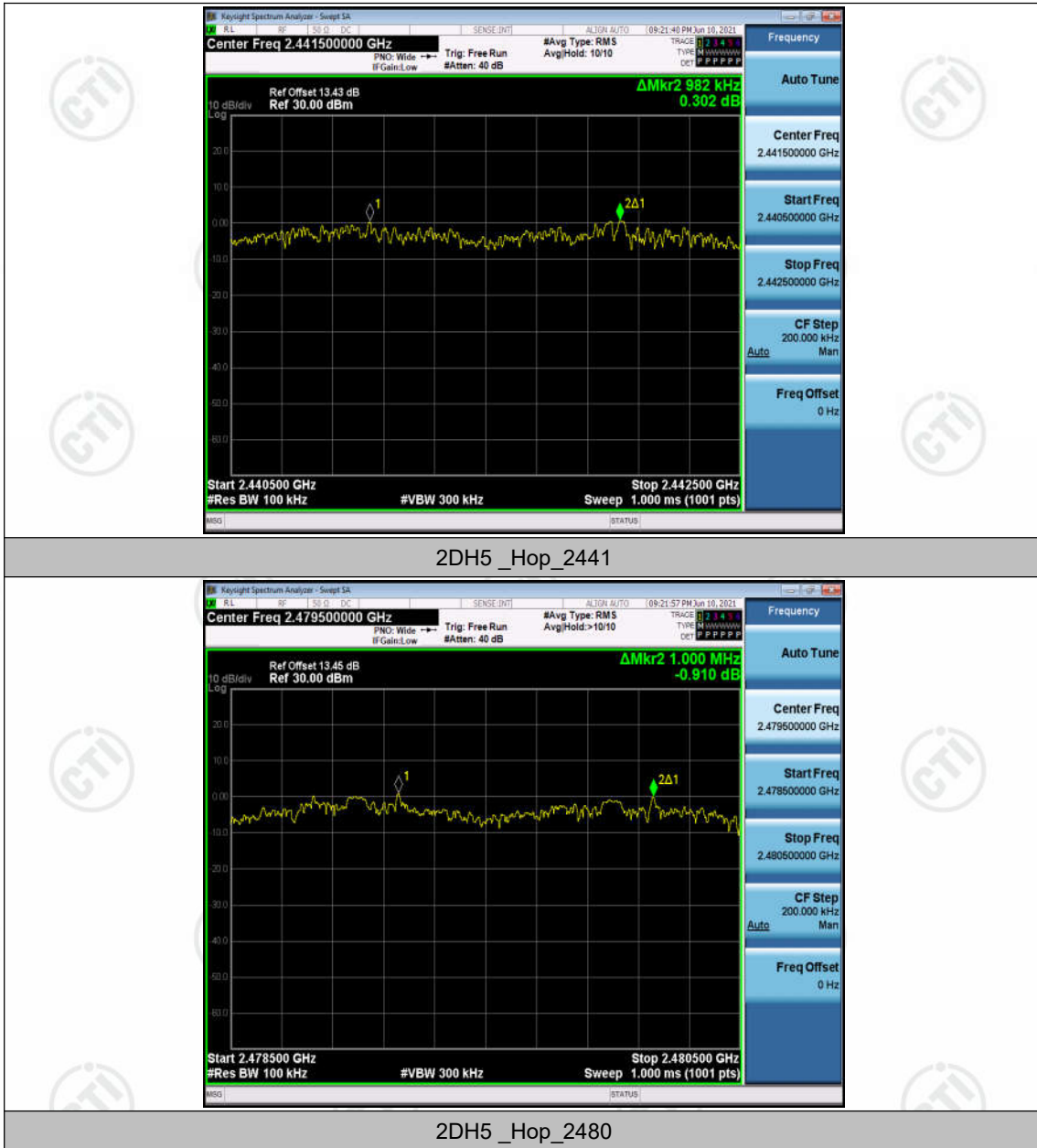




DH5_Hop_2480

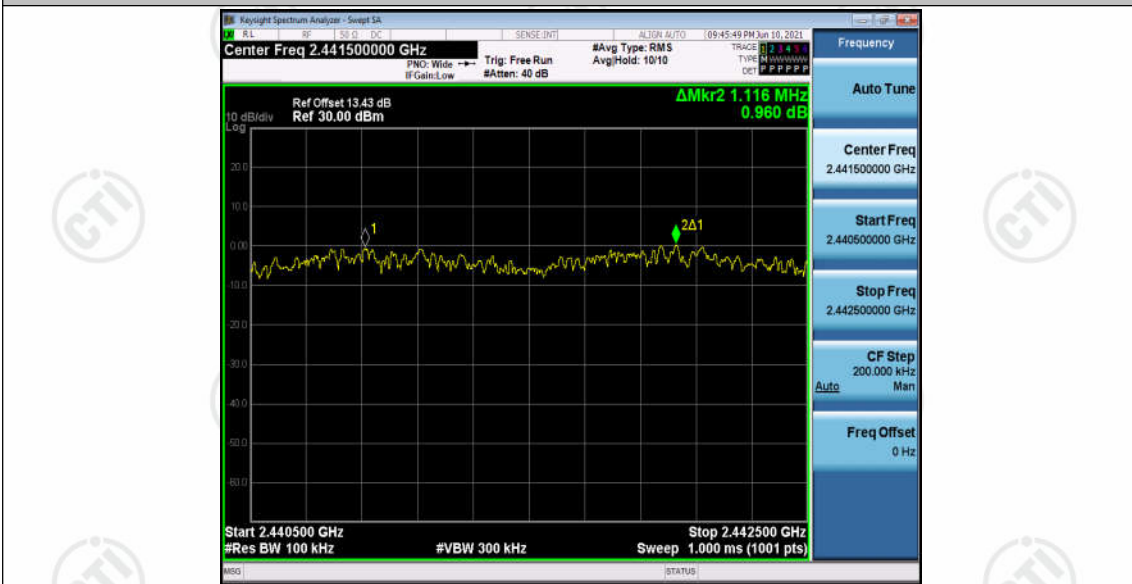


2DH5_Hop_2402

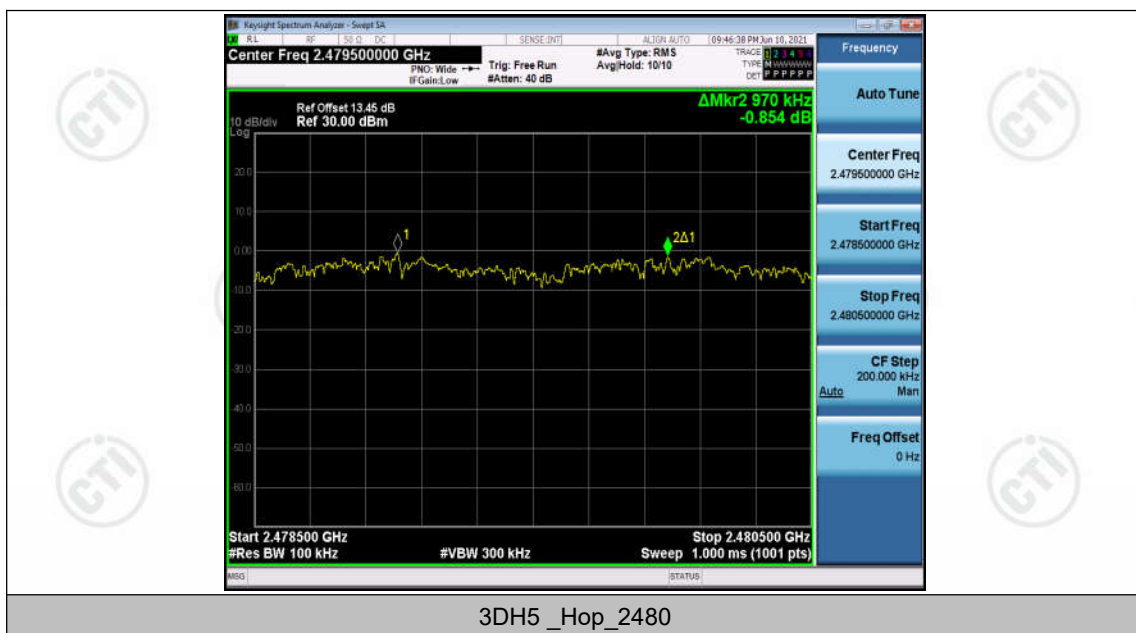




3DH5_Hop_2402



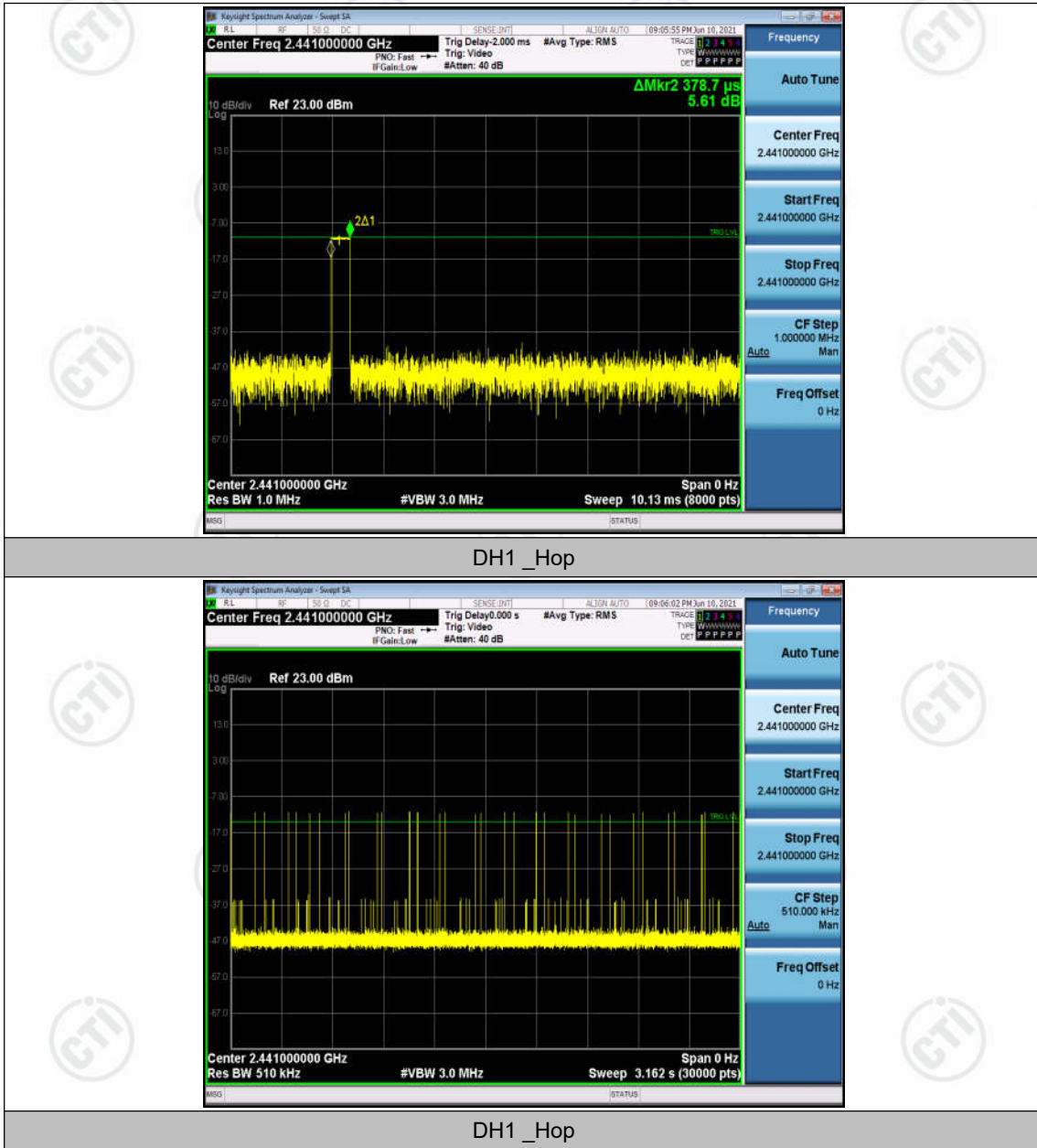
3DH5_Hop_2441

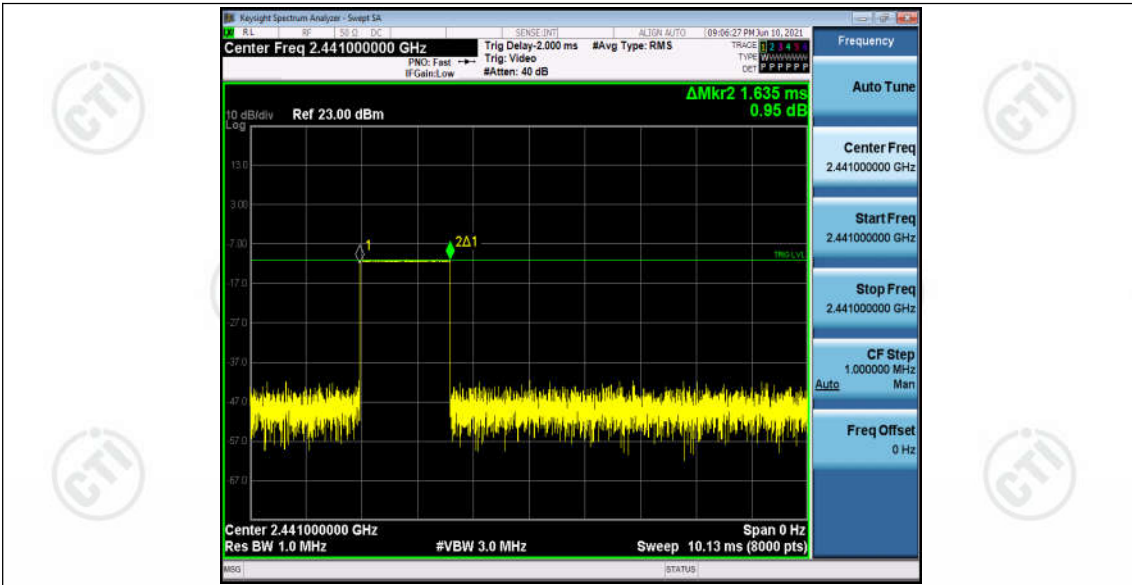


Appendix E: Time of occupancy**Test Result**

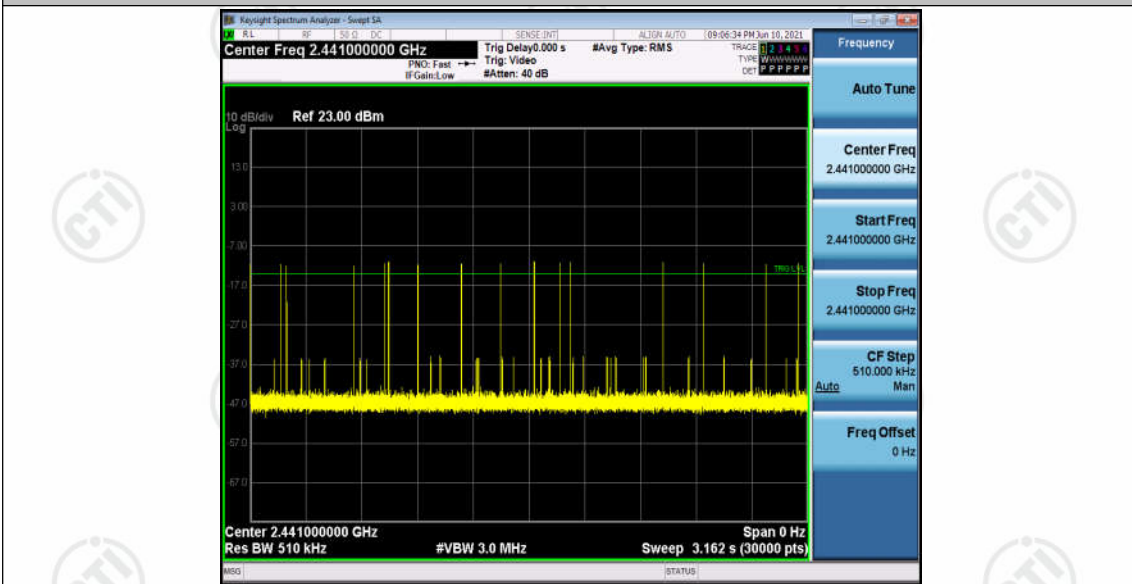
Test Mode	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Hop	0.38	330	0.125	<=0.4	PASS
DH3	Hop	1.64	160	0.262	<=0.4	PASS
DH5	Hop	2.88	100	0.288	<=0.4	PASS
2DH1	Hop	0.39	320	0.124	<=0.4	PASS
2DH3	Hop	1.64	130	0.213	<=0.4	PASS
2DH5	Hop	2.89	100	0.289	<=0.4	PASS
3DH1	Hop	0.39	330	0.128	<=0.4	PASS
3DH3	Hop	1.64	180	0.295	<=0.4	PASS
3DH5	Hop	2.89	110	0.318	<=0.4	PASS

Test Graphs

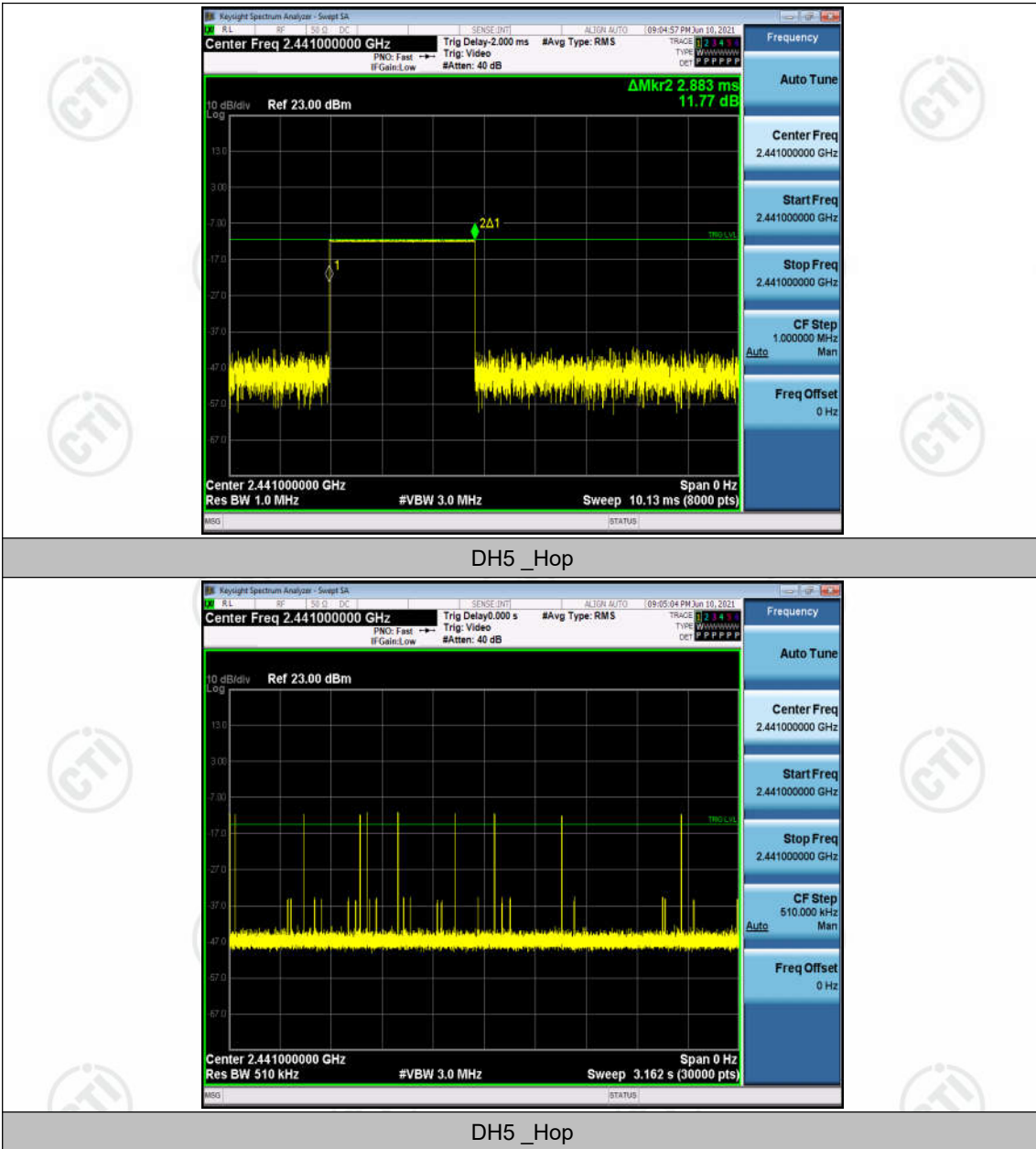


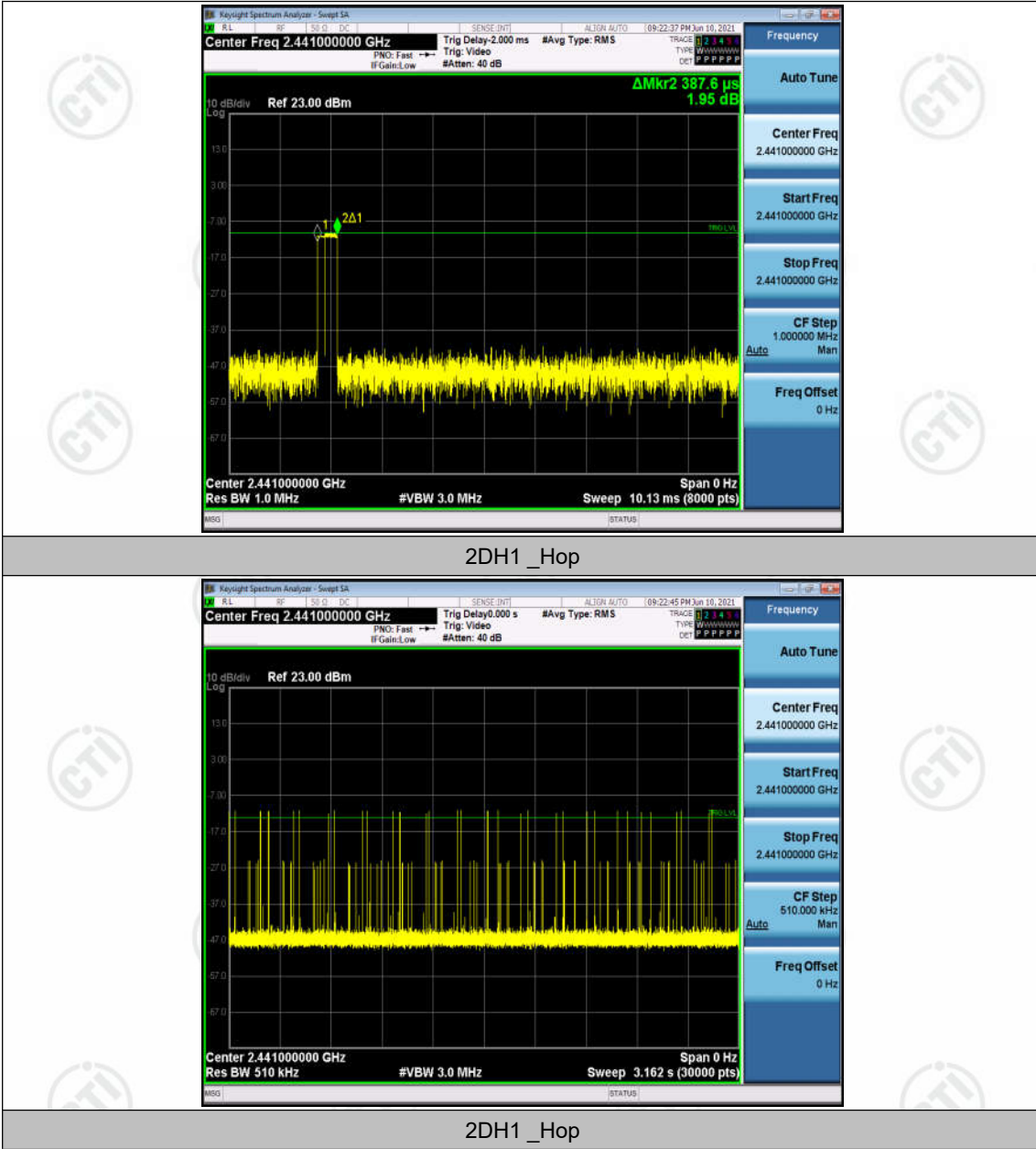


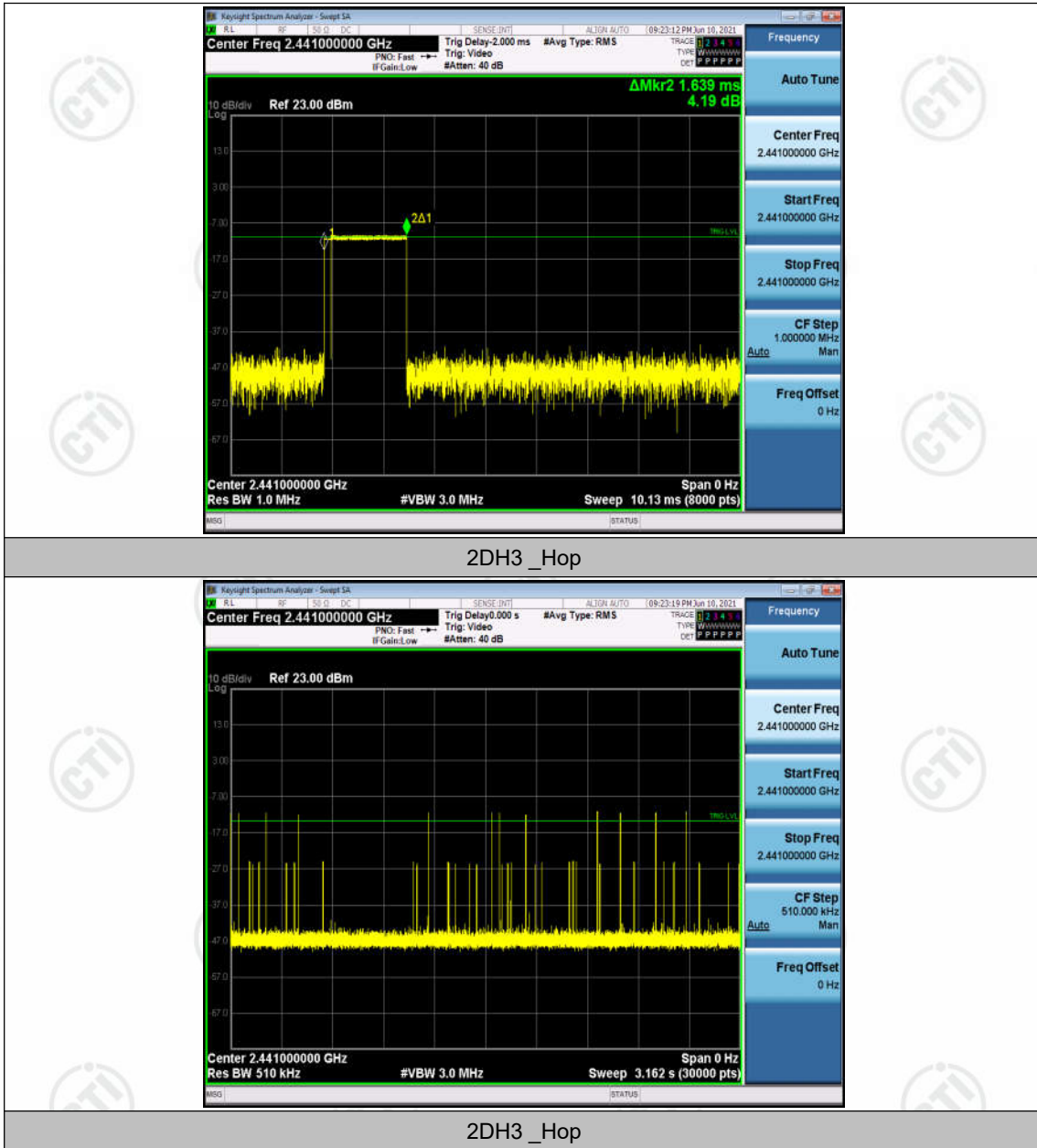
DH3_Hop

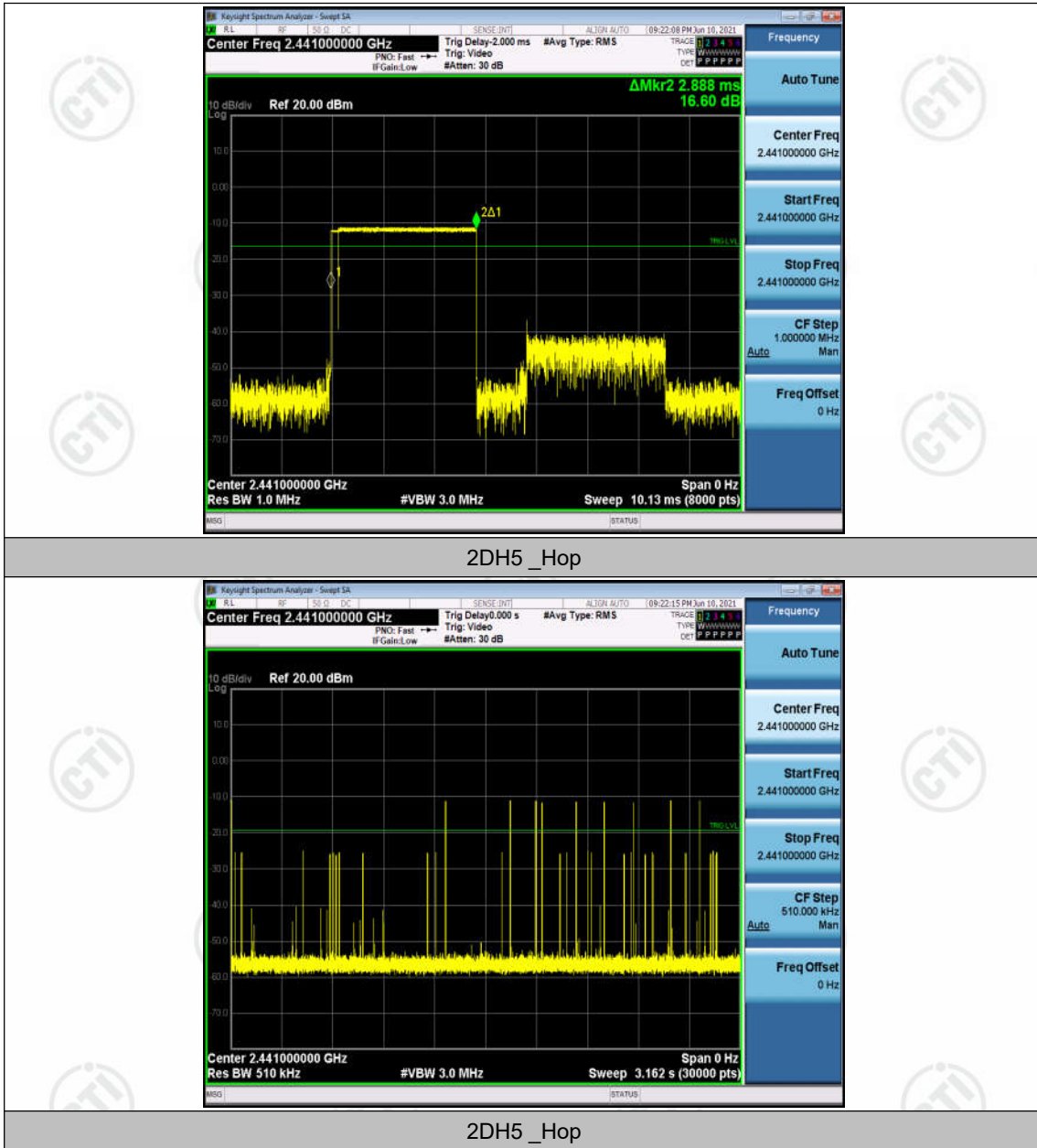


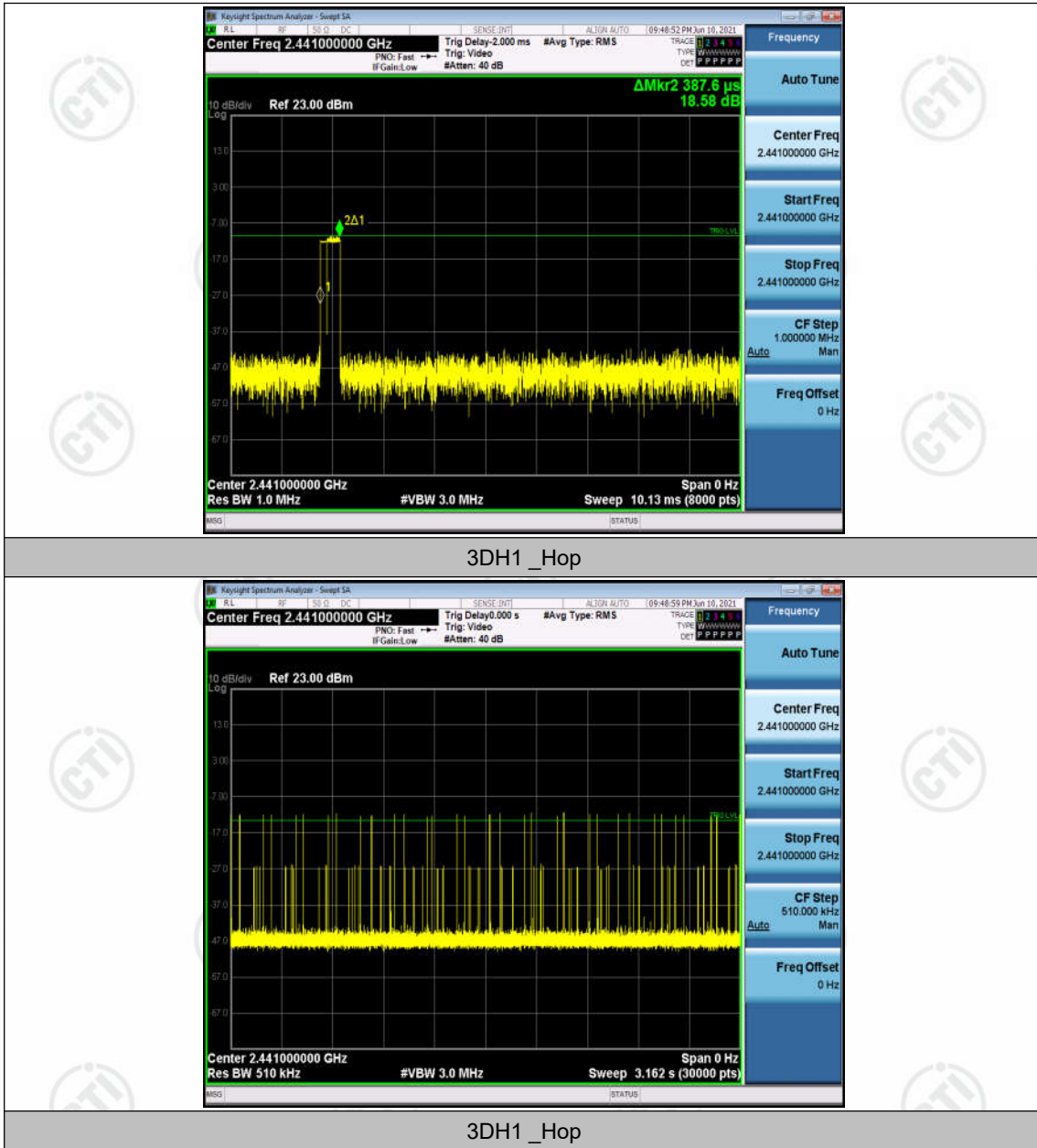
DH3_Hop

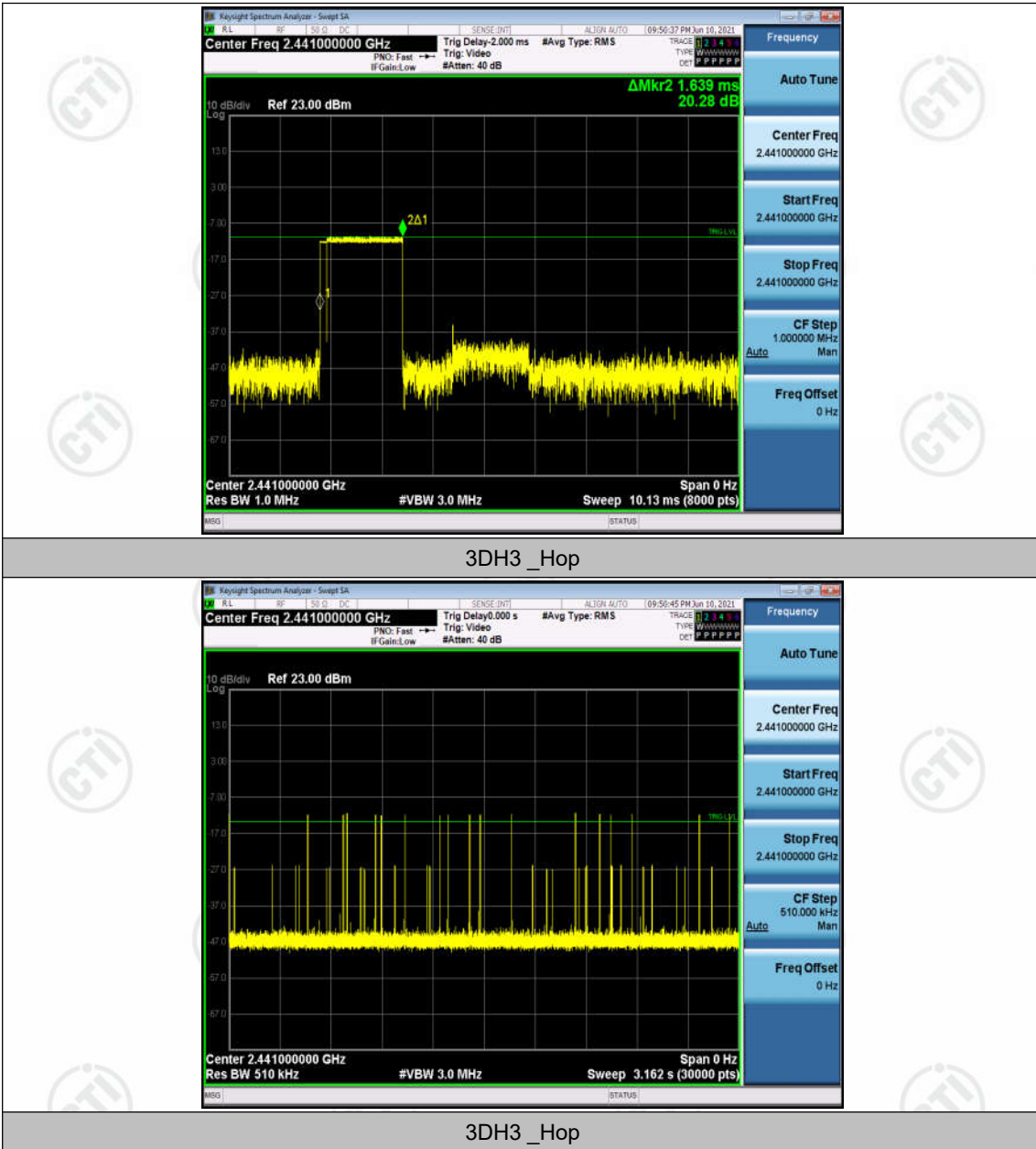


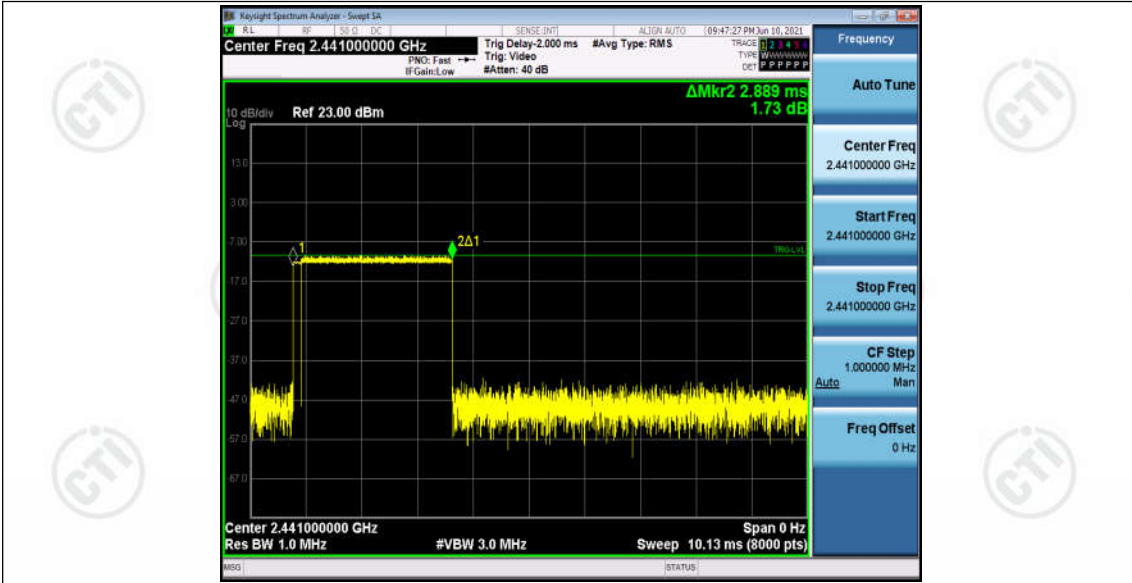




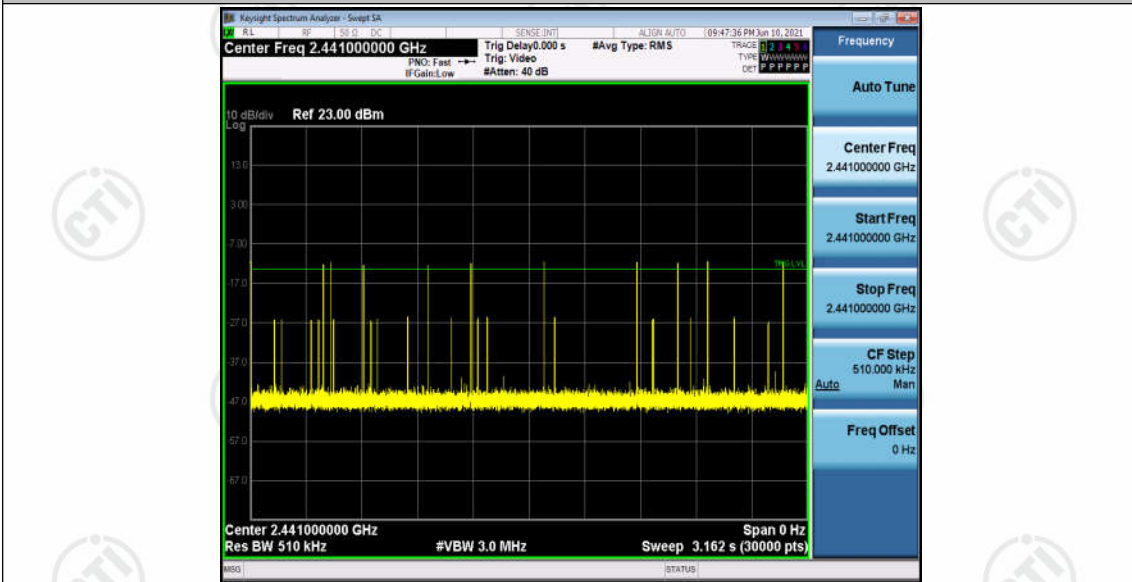








3DH5_Hop

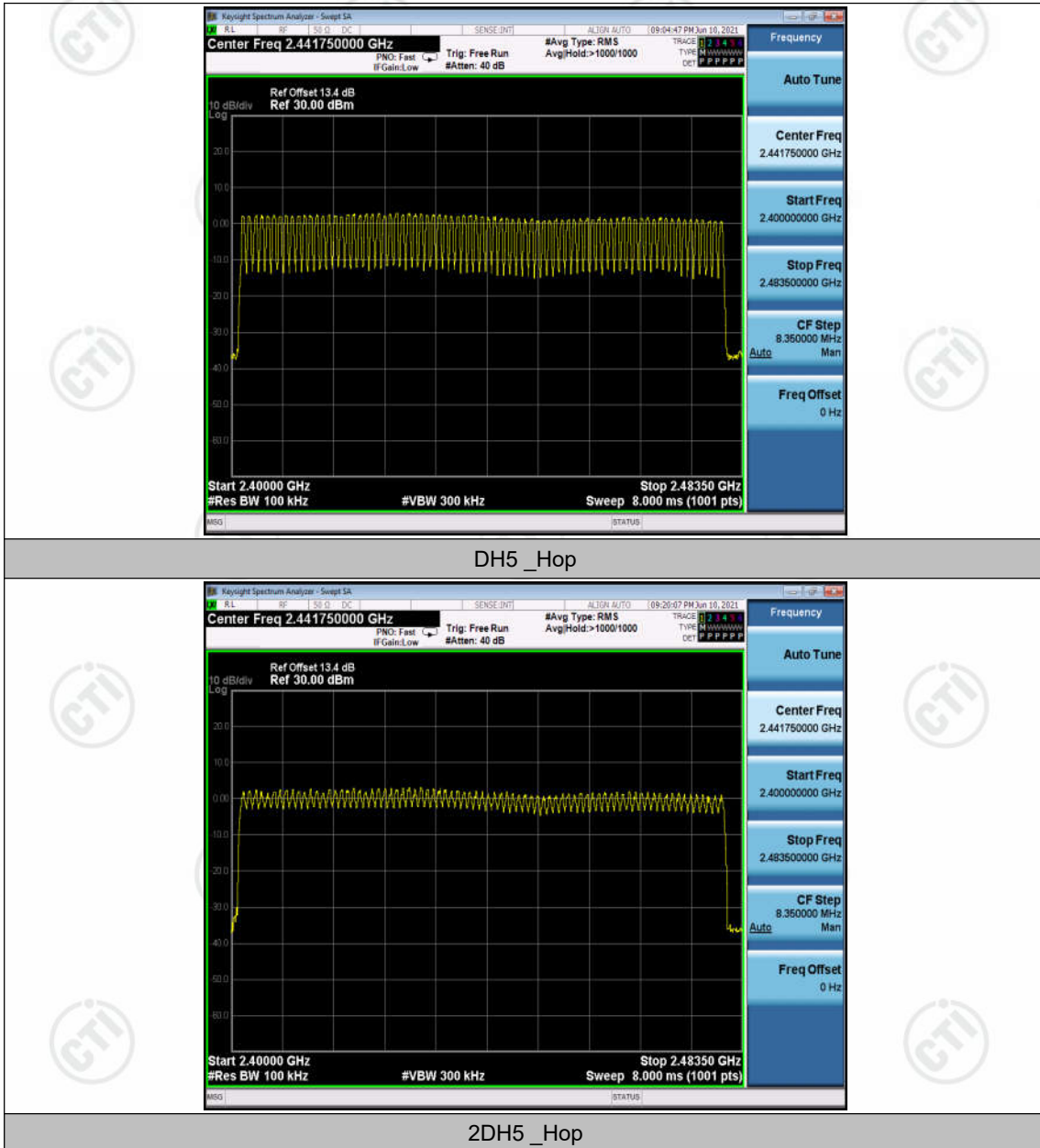


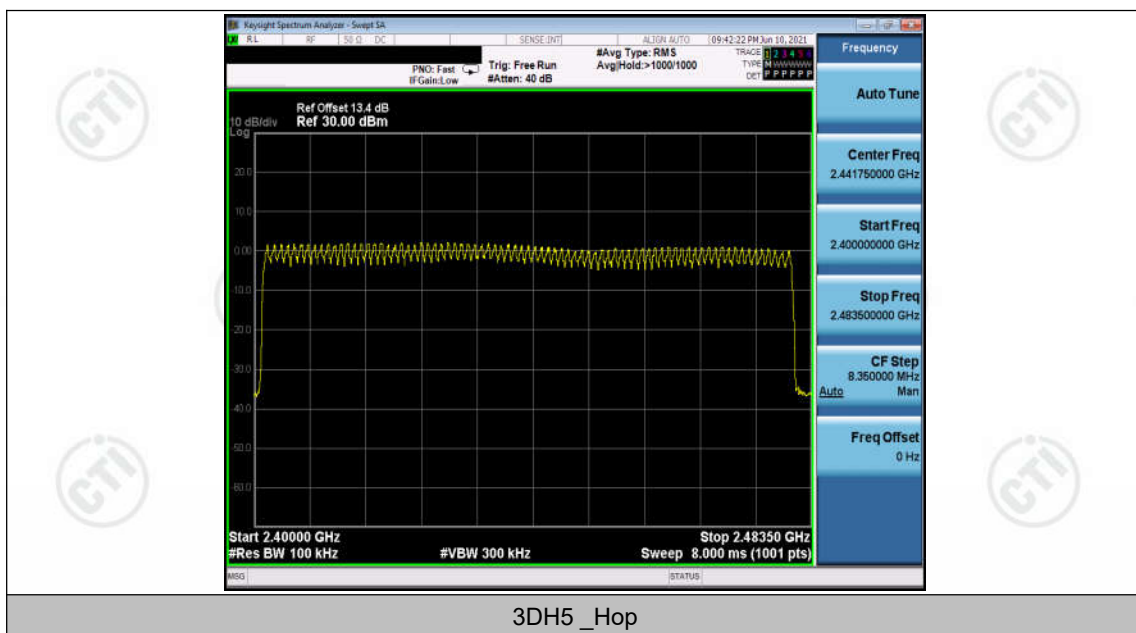
3DH5_Hop

Appendix F: Number of hopping channels**Test Result**

Test Mode	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Hop	79	≥ 15	PASS
2DH5	Hop	79	≥ 15	PASS
3DH5	Hop	79	≥ 15	PASS

Test Graphs



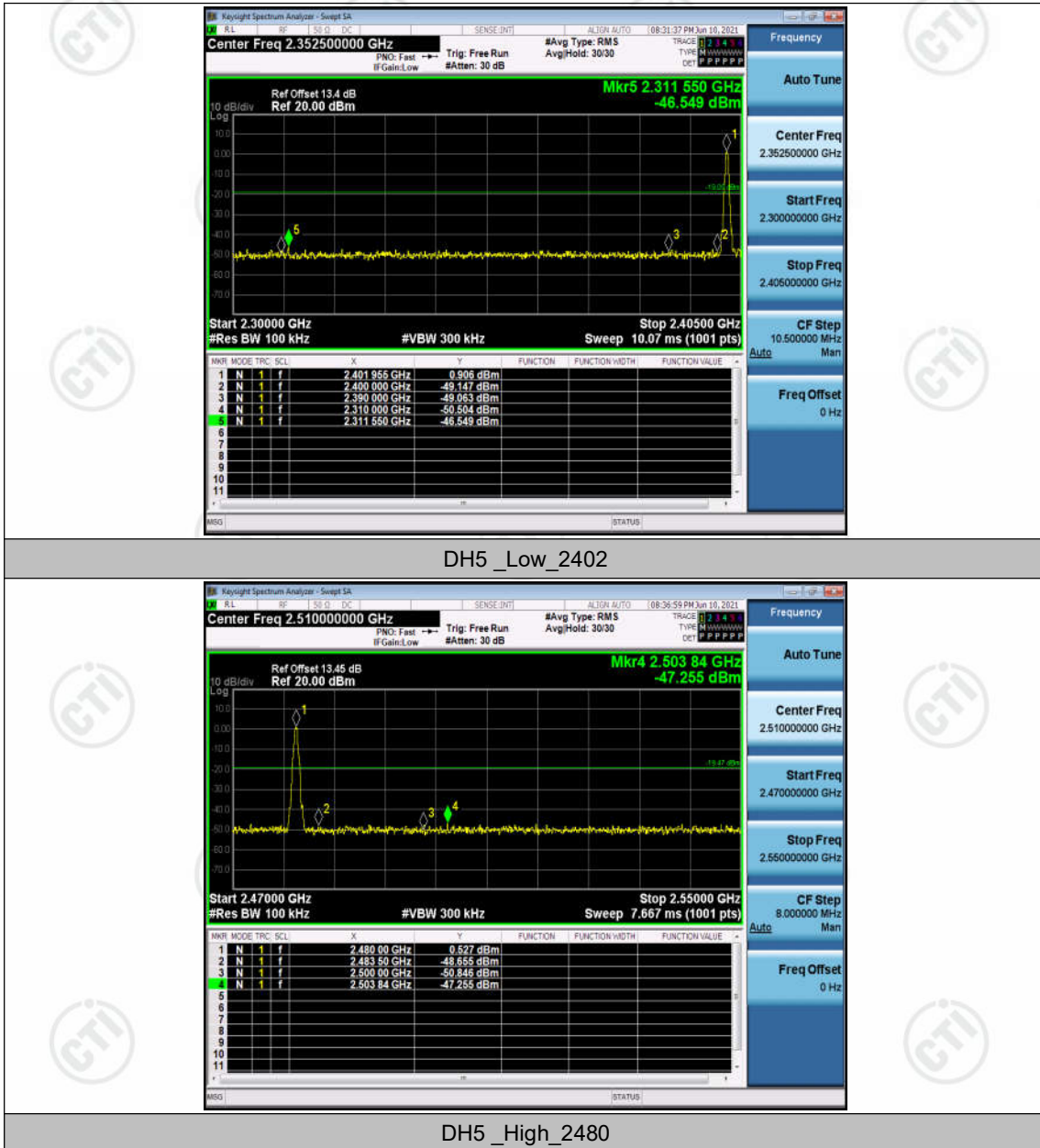


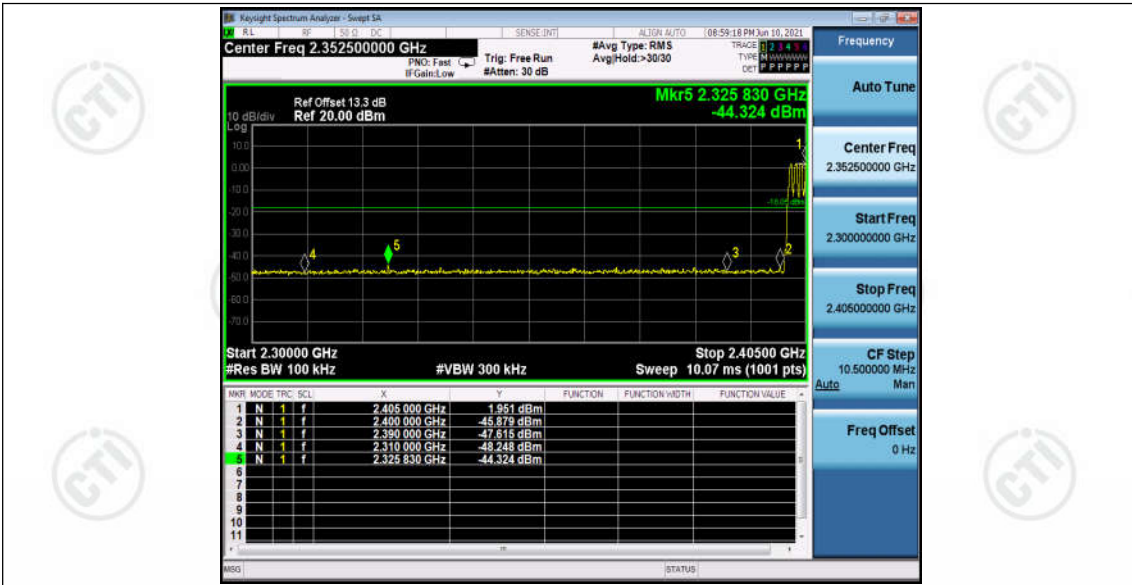
Appendix G:Band edge measurements

Test Result

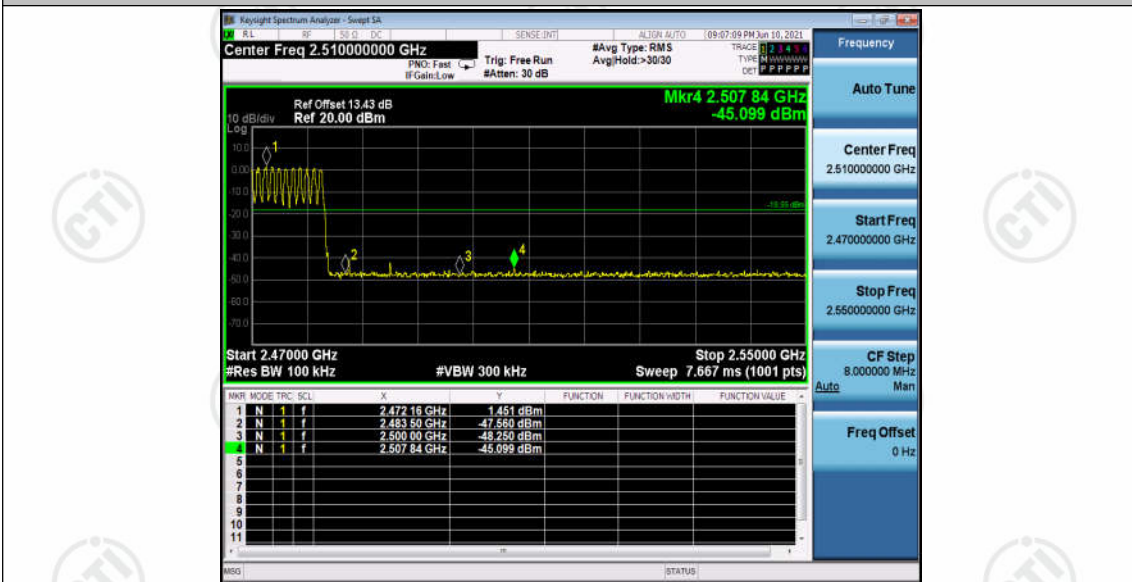
Test Mode	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Low	2402	0.91	-46.55	<=-19.09	PASS
	High	2480	0.53	-47.26	<=-19.47	PASS
	Low	Hop_2402	1.95	-44.32	<=-18.05	PASS
	High	Hop_2480	1.45	-45.1	<=-18.55	PASS
2DH5	Low	2402	-0.06	-44.39	<=-20.06	PASS
	High	2480	0.28	-46.46	<=-19.72	PASS
	Low	Hop_2402	2.40	-45.49	<=-17.6	PASS
	High	Hop_2480	-1.02	-46.51	<=-21.02	PASS
3DH5	Low	2402	-1.56	-46.7	<=-21.56	PASS
	High	2480	-2.16	-46.54	<=-22.16	PASS
	Low	Hop_2402	1.31	-44.22	<=-18.69	PASS
	High	Hop_2480	0.87	-45.02	<=-19.13	PASS

Test Graphs

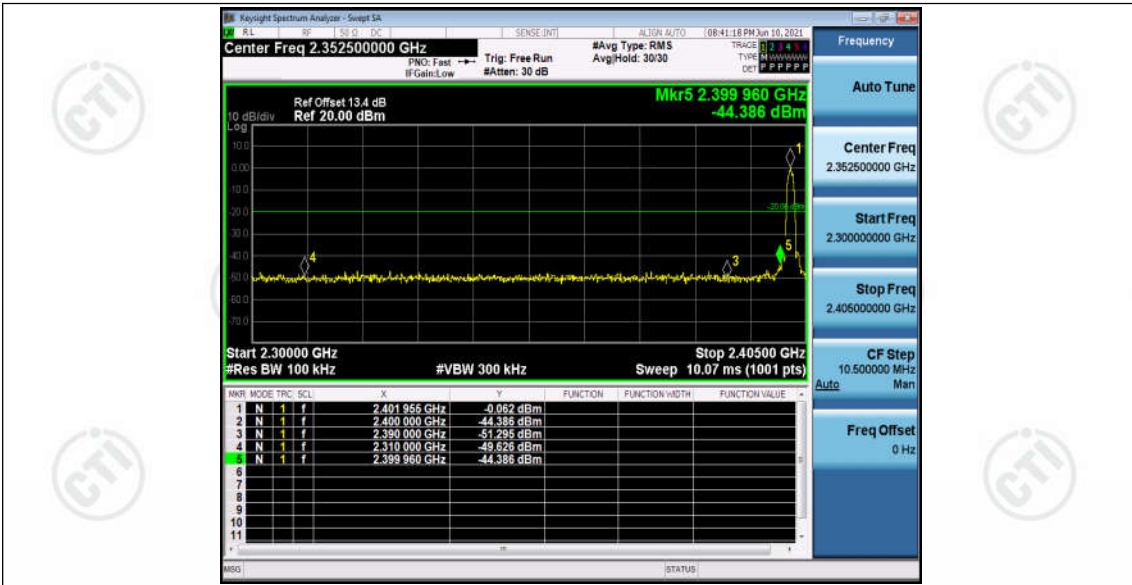




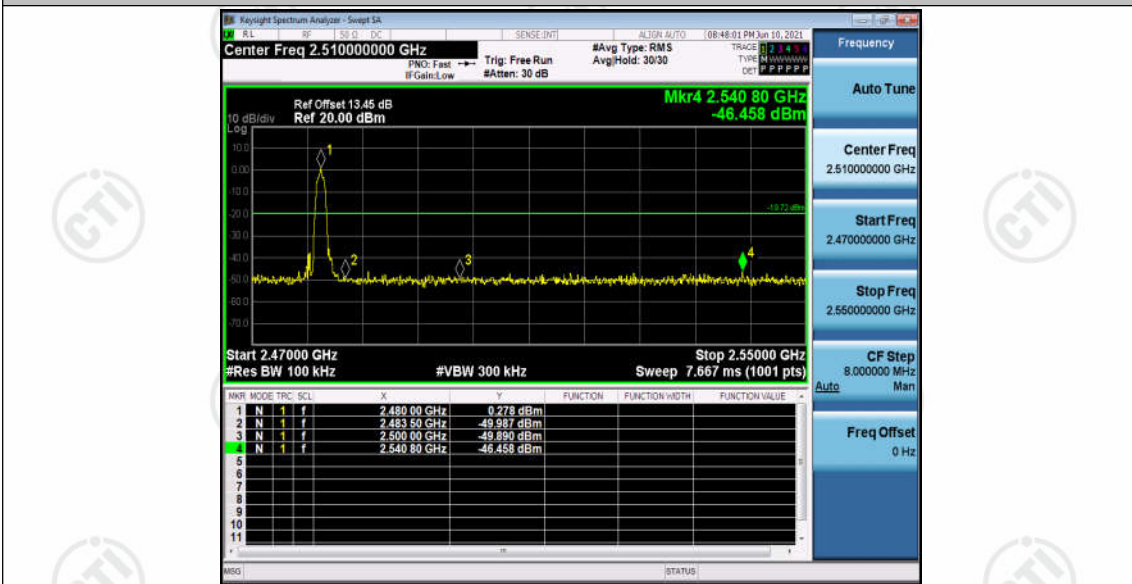
DH5_Low_Hop_2402



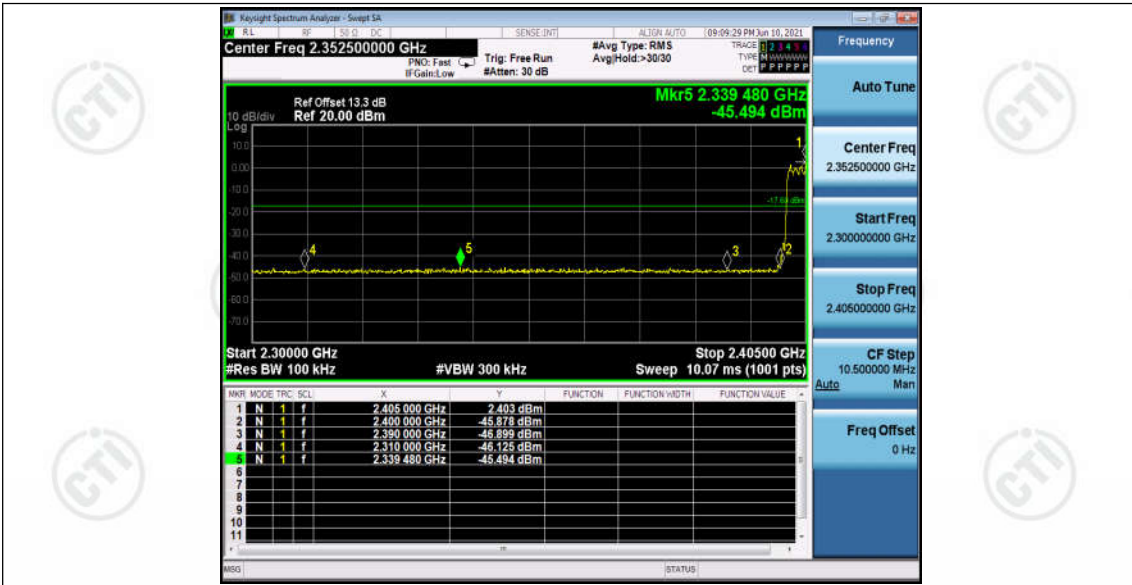
DH5_High_Hop_2480



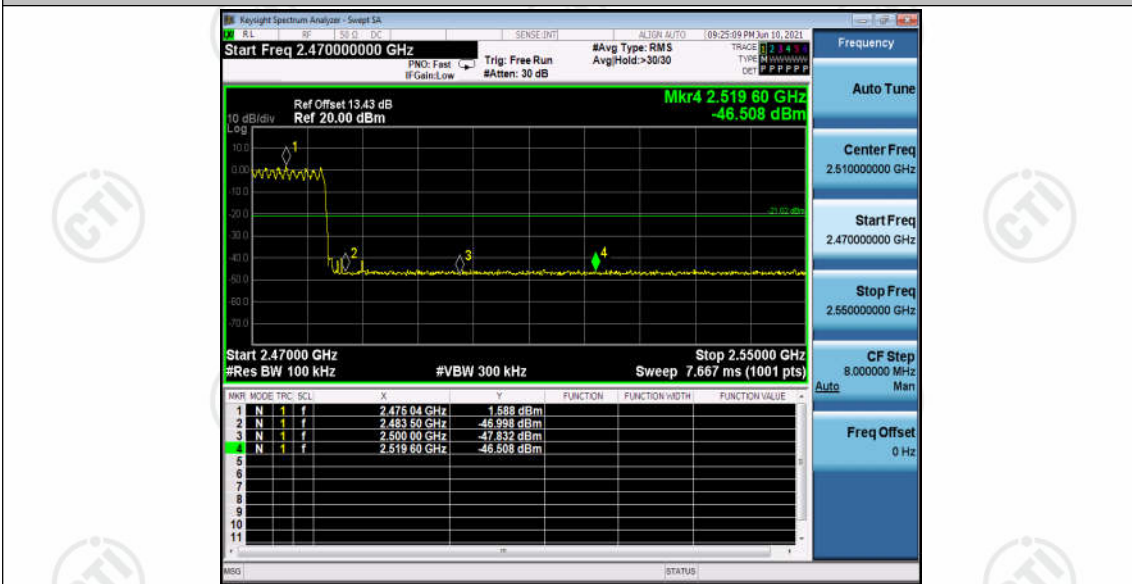
2DH5_Low_2402



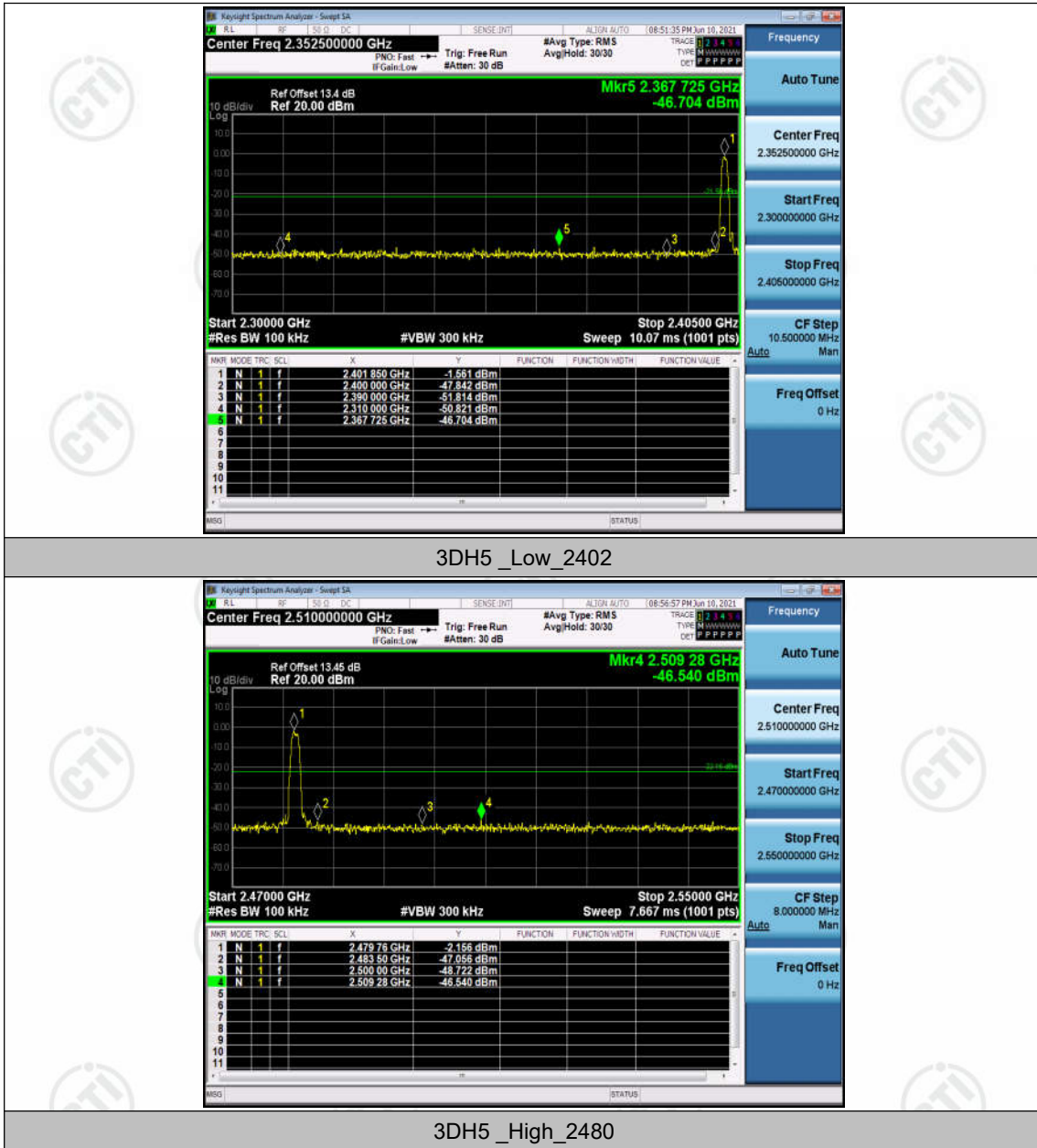
2DH5_High_2480

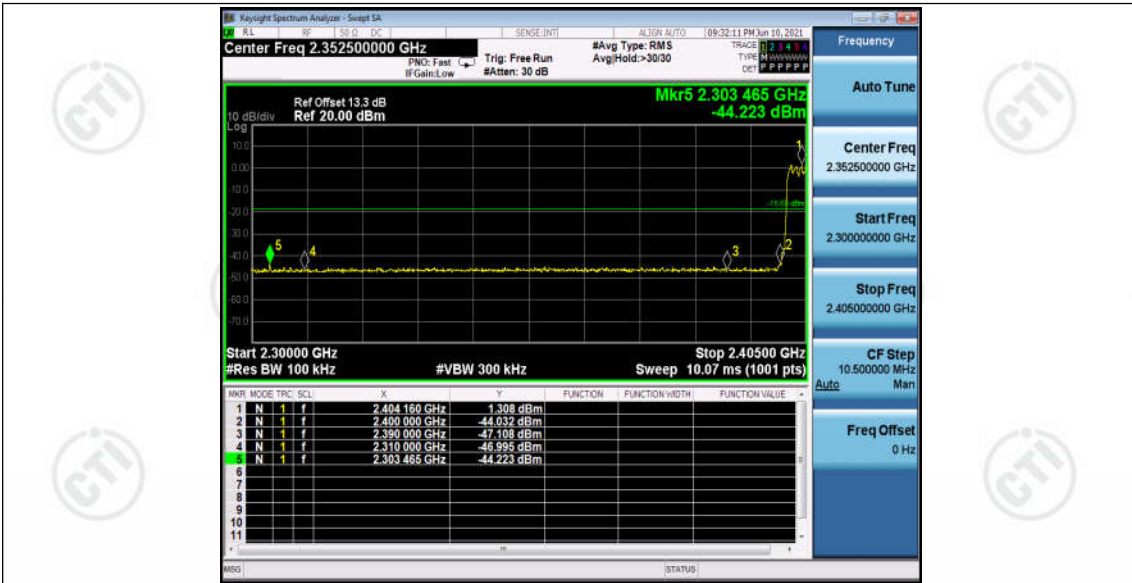


2DH5_Low_Hop_2402

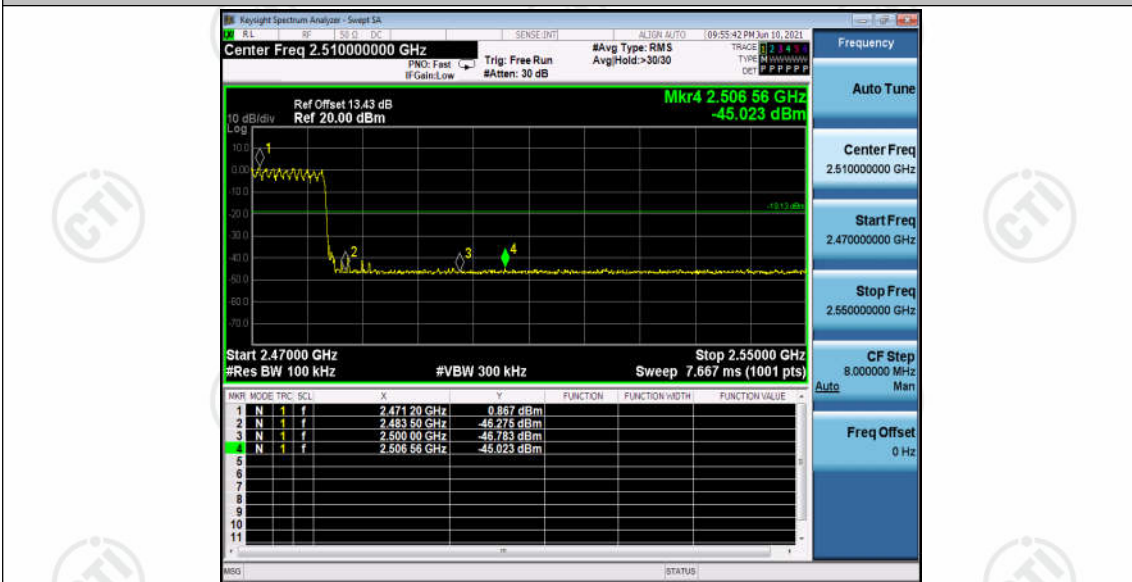


2DH5_High_Hop_2480





3DH5_Low_Hop_2402



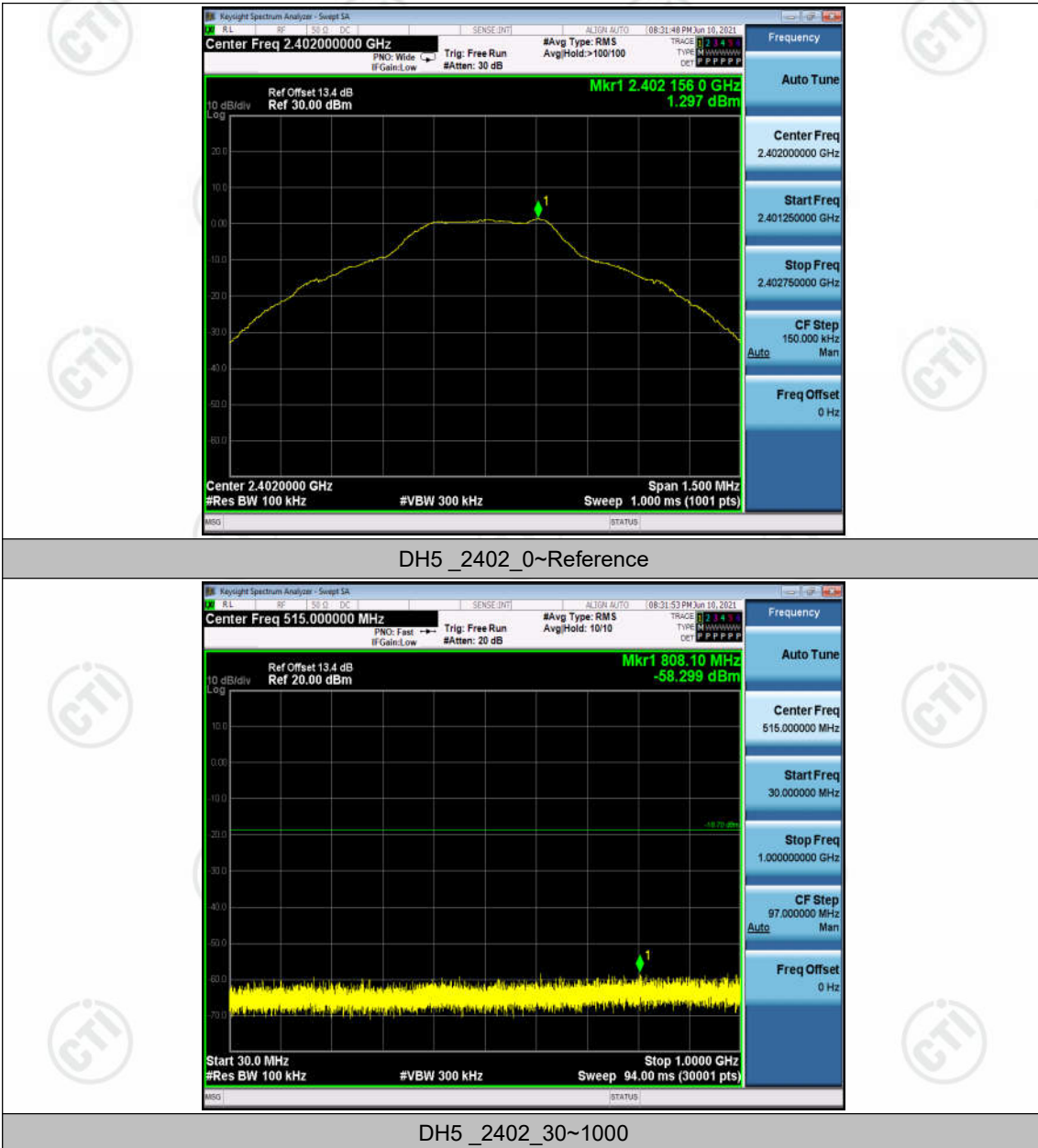
3DH5_High_Hop_2480

Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	2402	Reference	1.30	1.30	---	PASS
		30~1000	30~1000	-58.299	<=-18.703	PASS
		1000~26500	1000~26500	-49.705	<=-18.703	PASS
	2441	Reference	1.72	1.72	---	PASS
		30~1000	30~1000	-57.756	<=-18.277	PASS
		1000~26500	1000~26500	-49.964	<=-18.277	PASS
	2480	Reference	0.34	0.34	---	PASS
		30~1000	30~1000	-57.491	<=-19.656	PASS
		1000~26500	1000~26500	-49.806	<=-19.656	PASS
2DH5	2402	Reference	1.22	1.22	---	PASS
		30~1000	30~1000	-57.828	<=-18.781	PASS
		1000~26500	1000~26500	-49.772	<=-18.781	PASS
	2441	Reference	1.08	1.08	---	PASS
		30~1000	30~1000	-58.016	<=-18.918	PASS
		1000~26500	1000~26500	-49.314	<=-18.918	PASS
	2480	Reference	0.52	0.52	---	PASS
		30~1000	30~1000	-58.139	<=-19.476	PASS
		1000~26500	1000~26500	-50.006	<=-19.476	PASS
3DH5	2402	Reference	-0.15	-0.15	---	PASS
		30~1000	30~1000	-56.946	<=-20.15	PASS
		1000~26500	1000~26500	-49.788	<=-20.15	PASS
	2441	Reference	1.05	1.05	---	PASS
		30~1000	30~1000	-56.292	<=-18.953	PASS
		1000~26500	1000~26500	-49.887	<=-18.953	PASS
	2480	Reference	0.03	0.03	---	PASS
		30~1000	30~1000	-58.178	<=-19.966	PASS
		1000~26500	1000~26500	-49.636	<=-19.966	PASS

Test Graphs

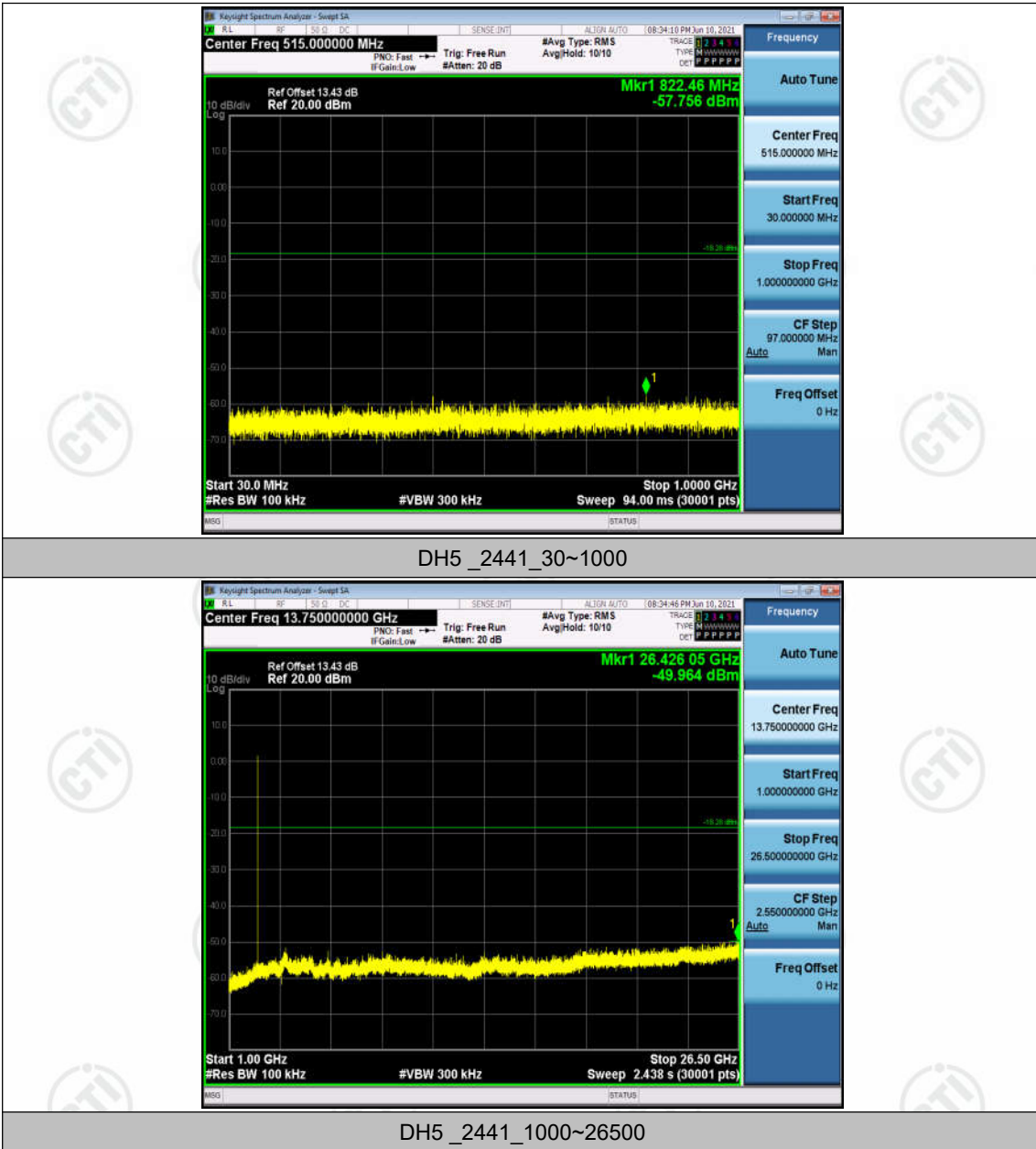




DH5_2402_1000~26500

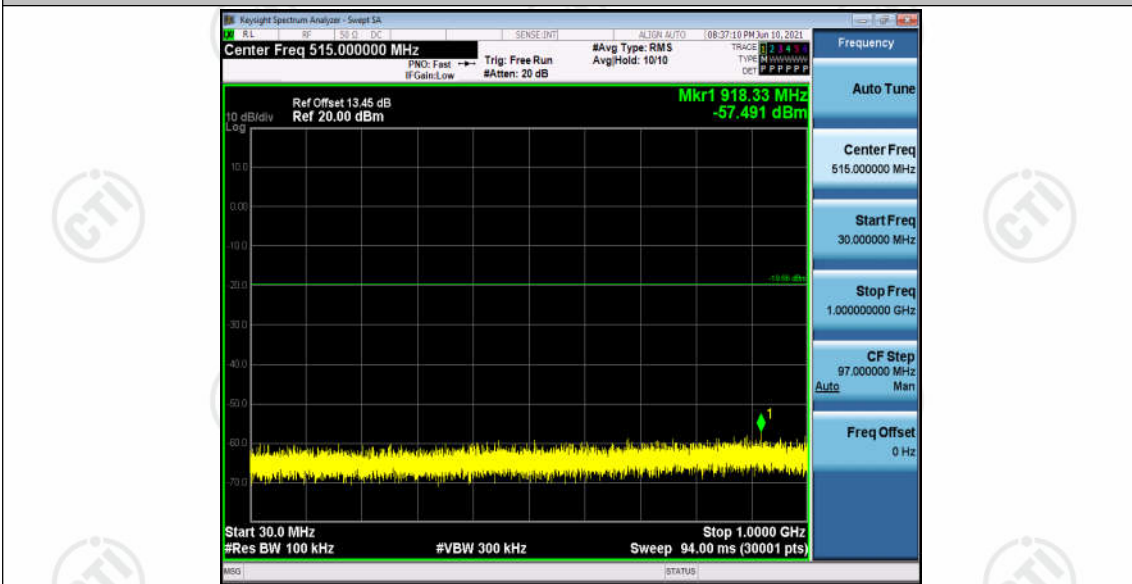


DH5_2441_0~Reference

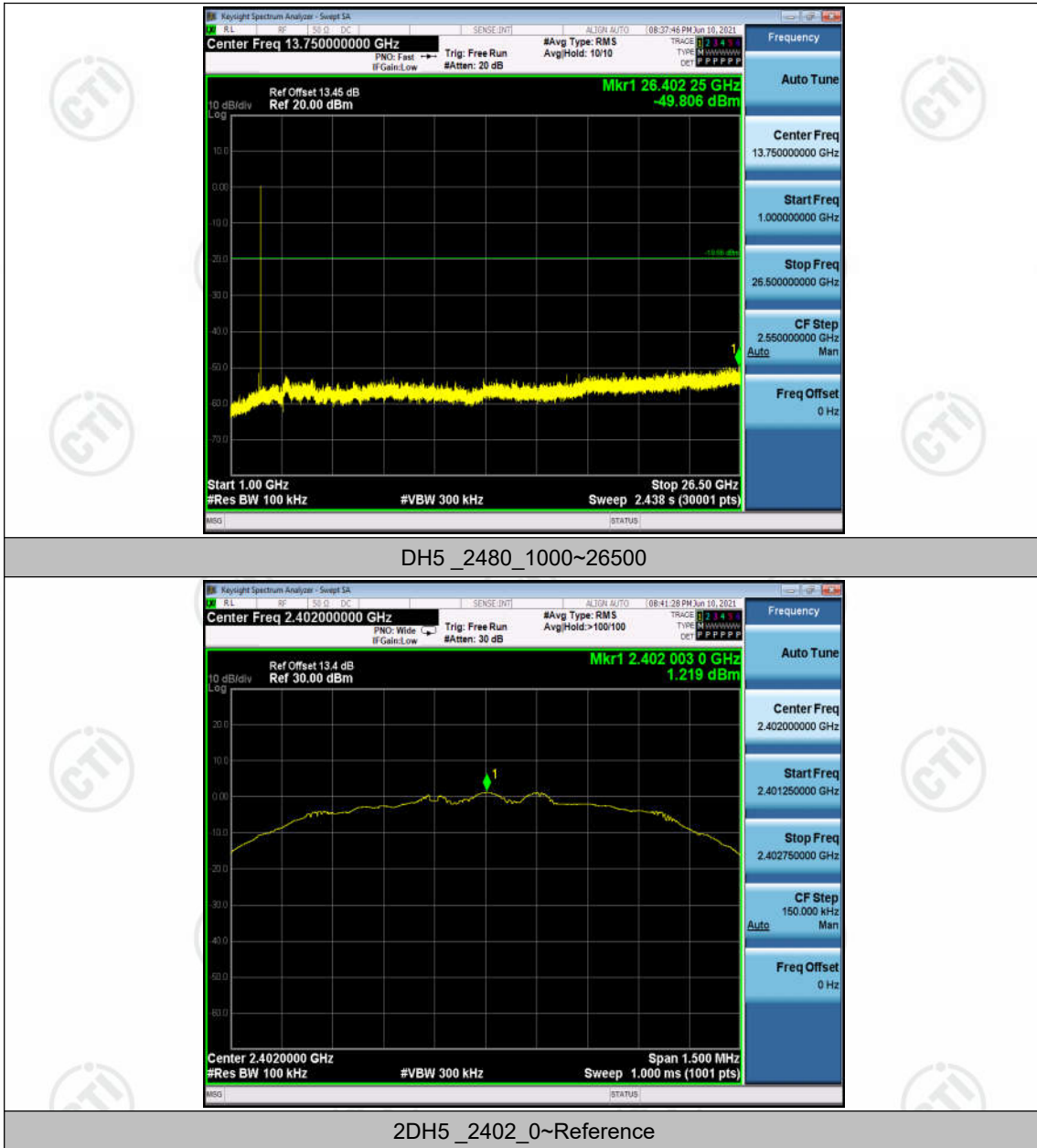


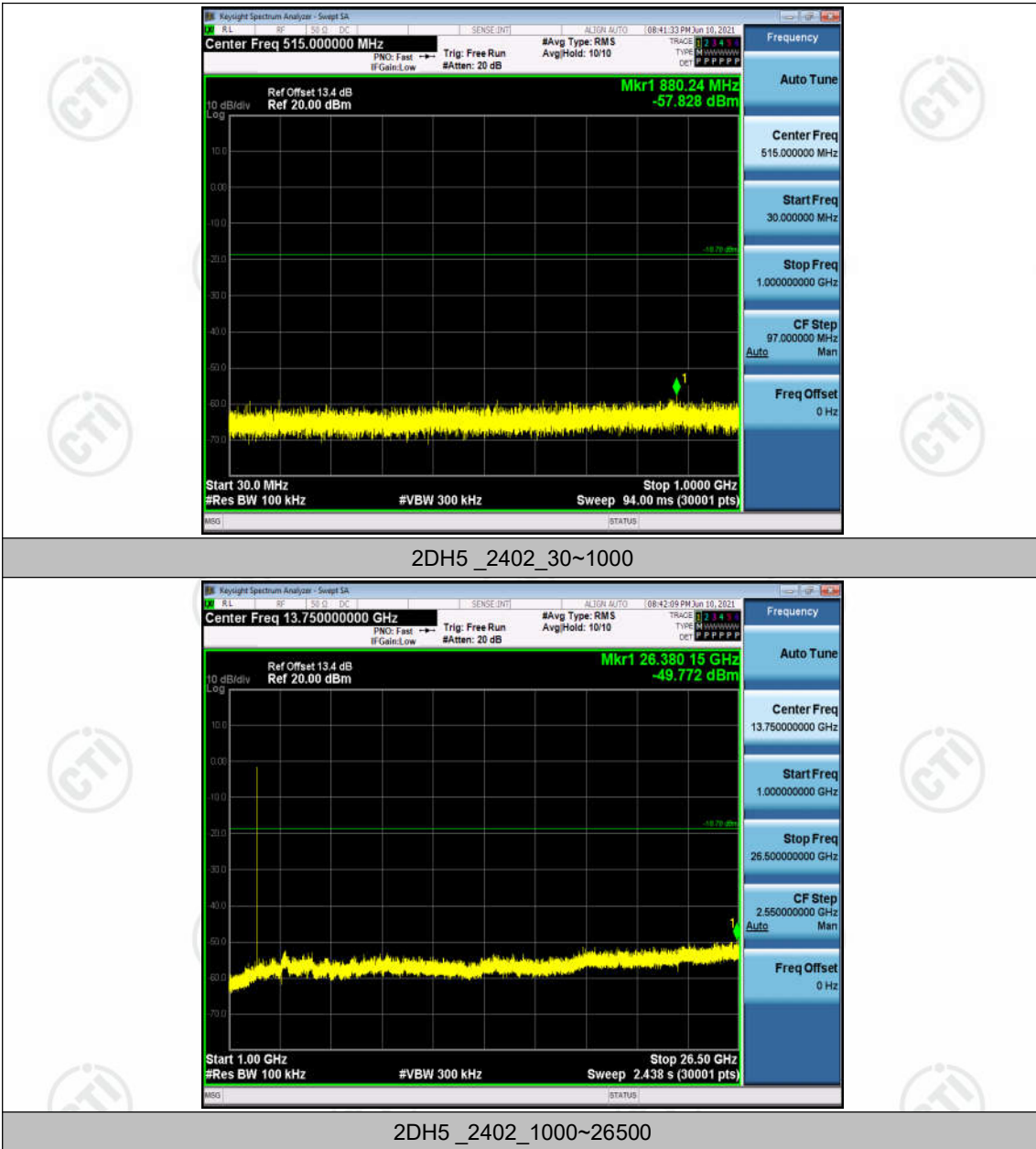


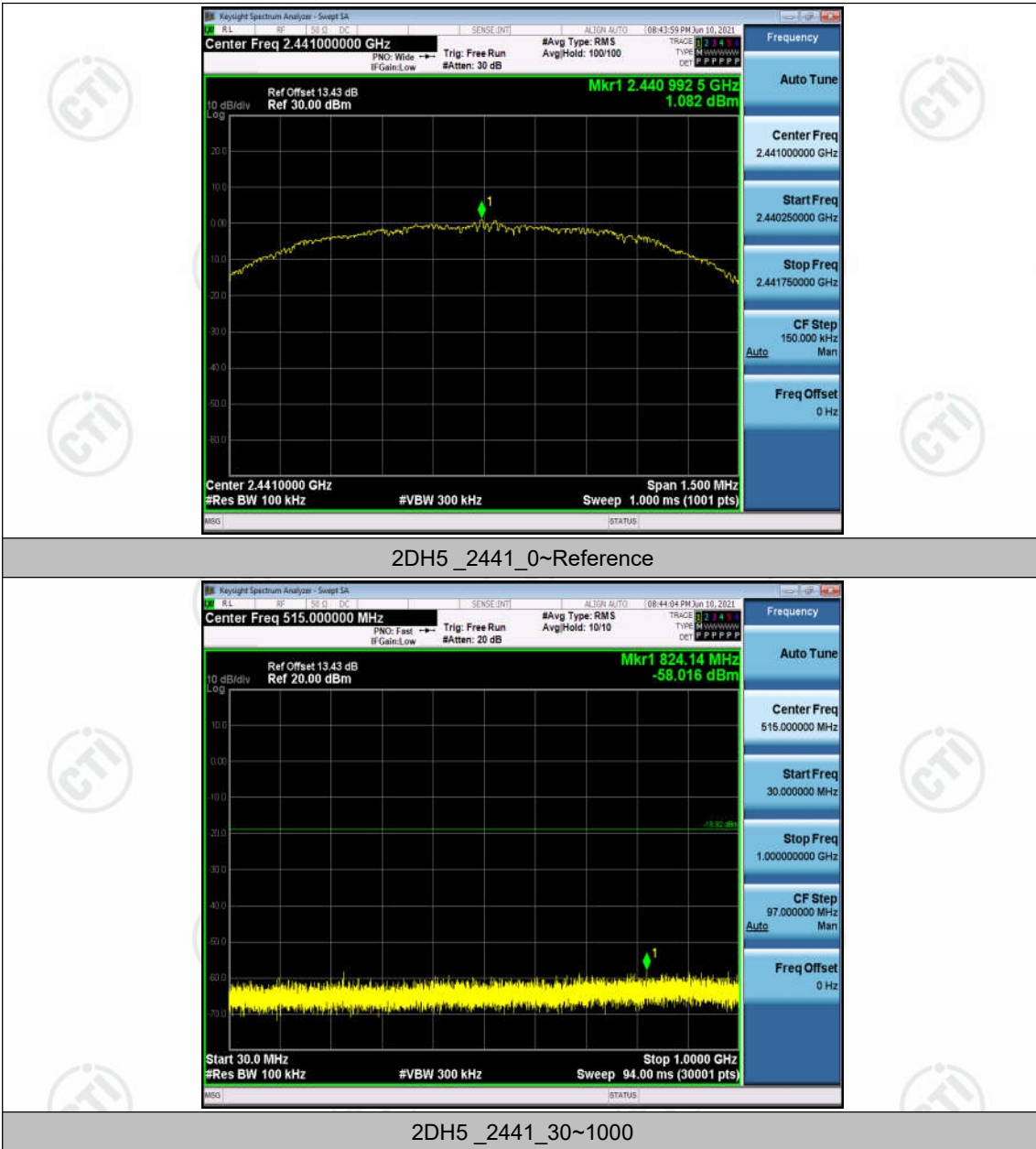
DH5_2480_0~Reference

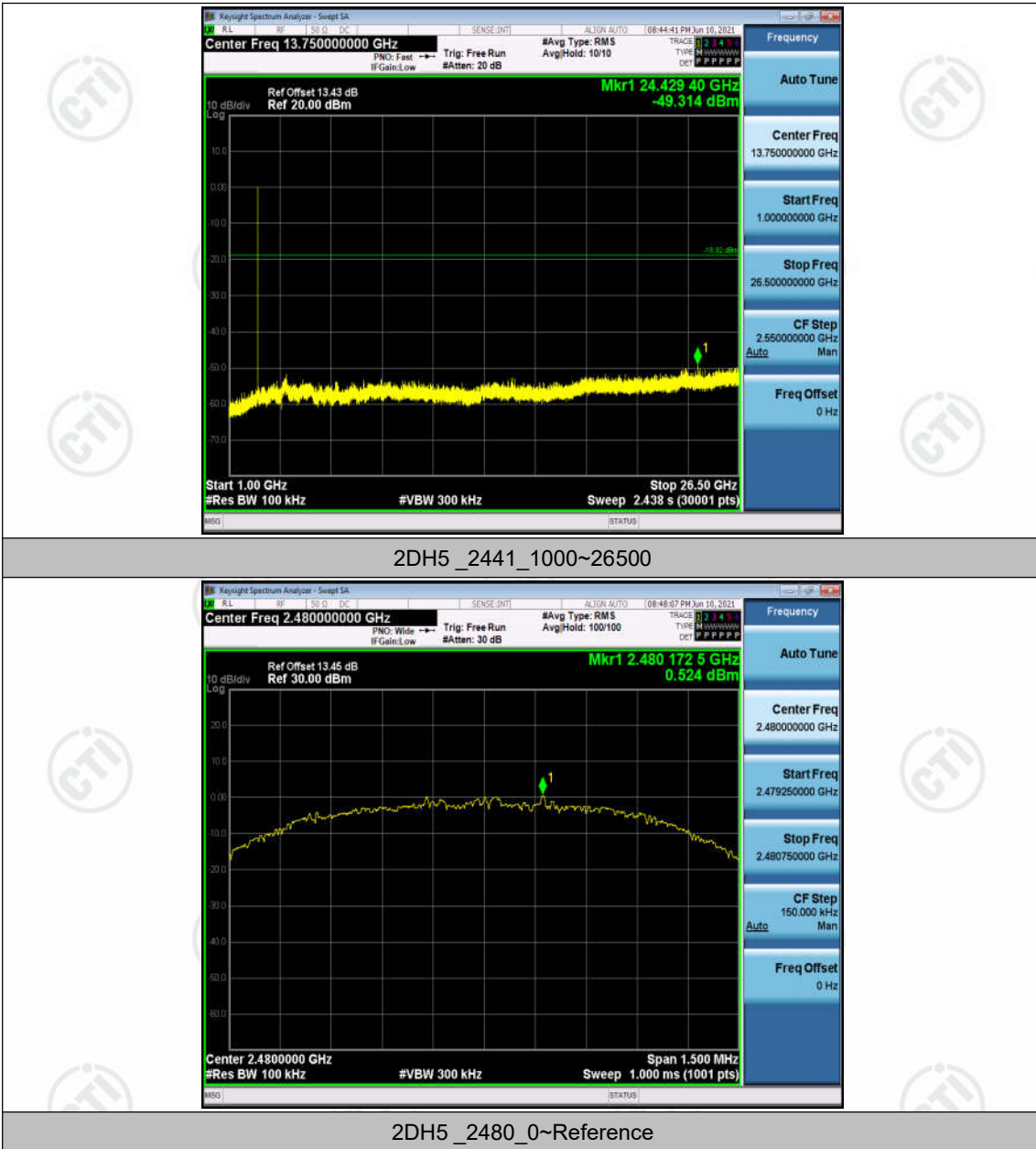


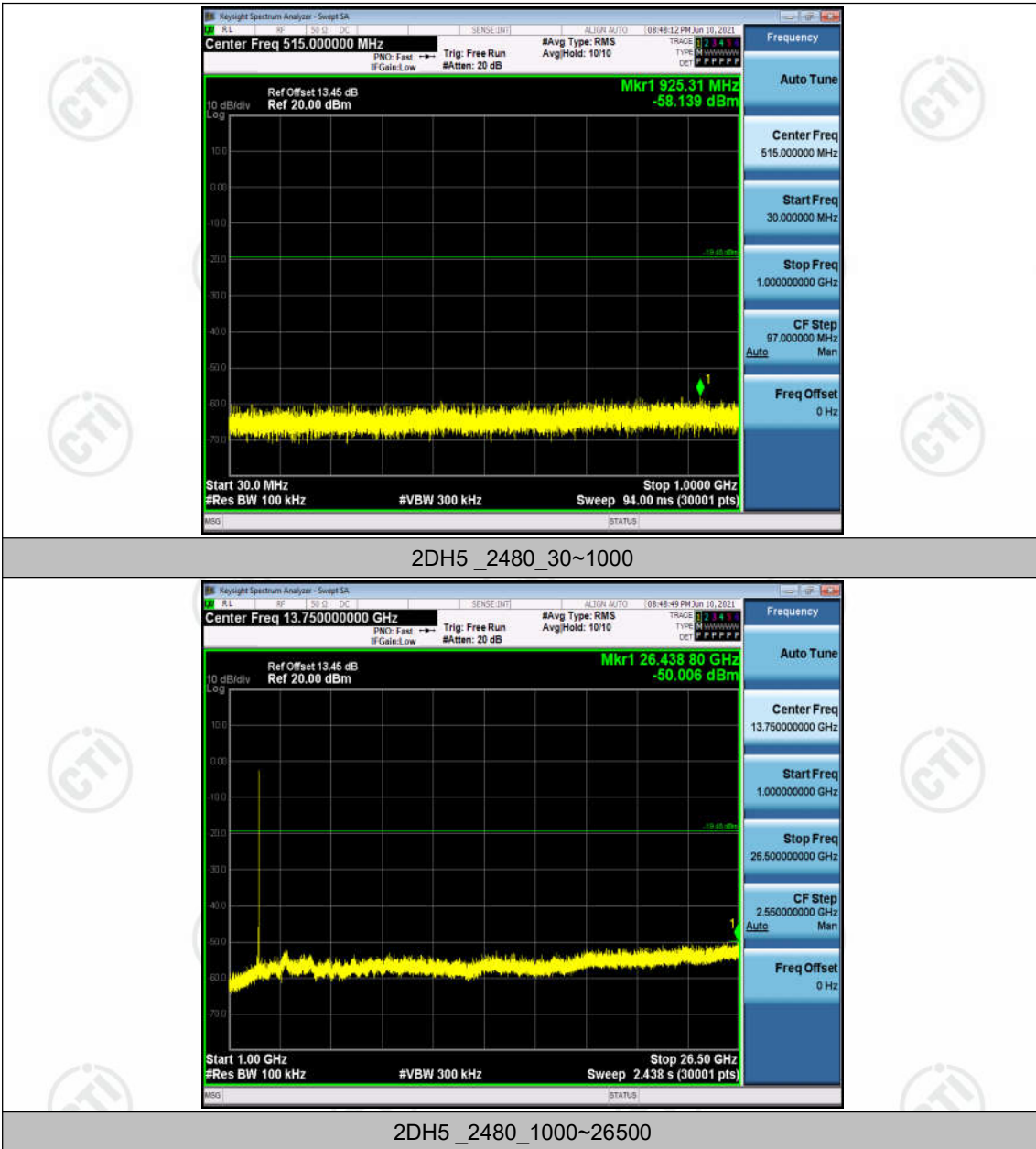
DH5_2480_30~1000

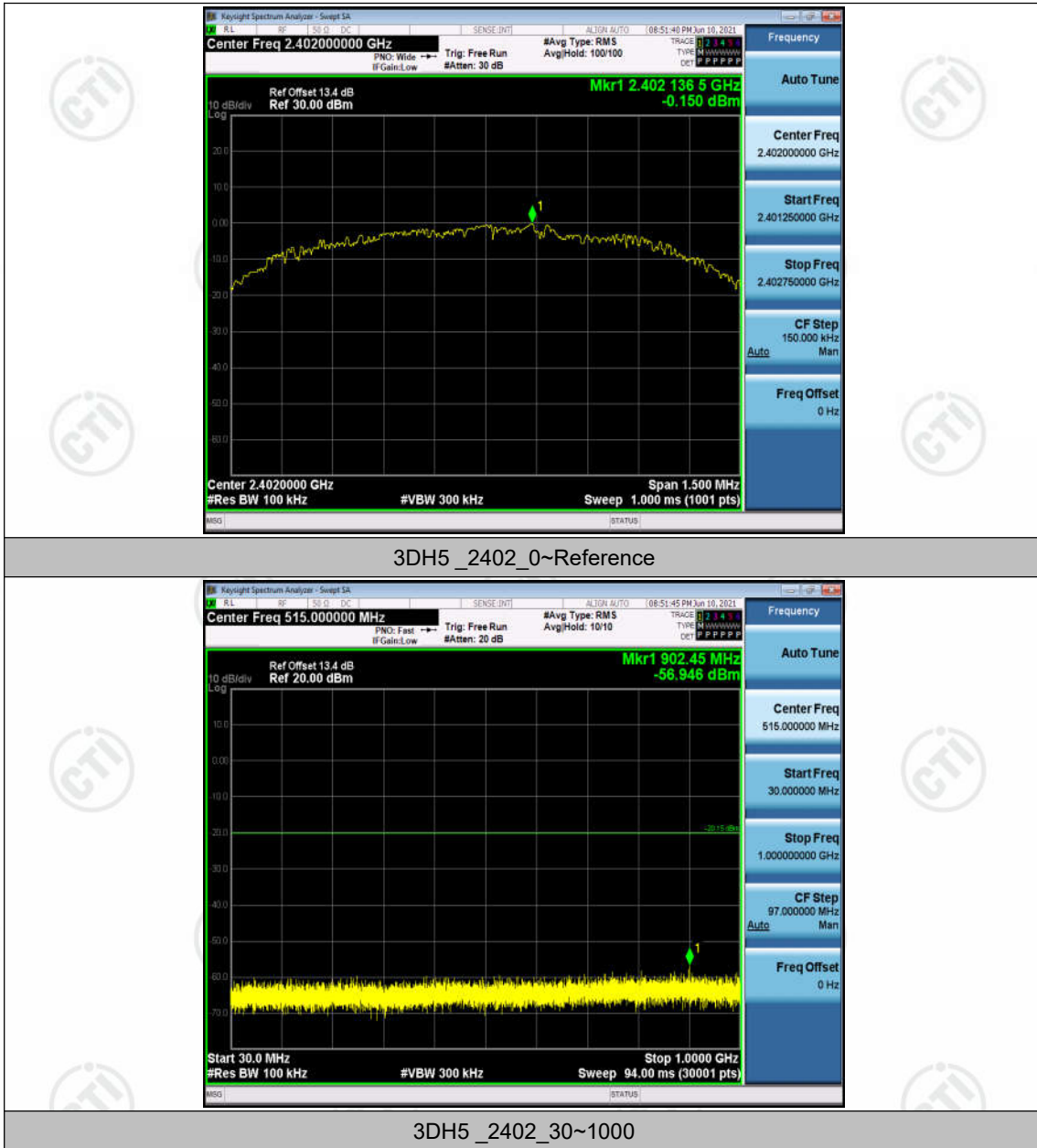


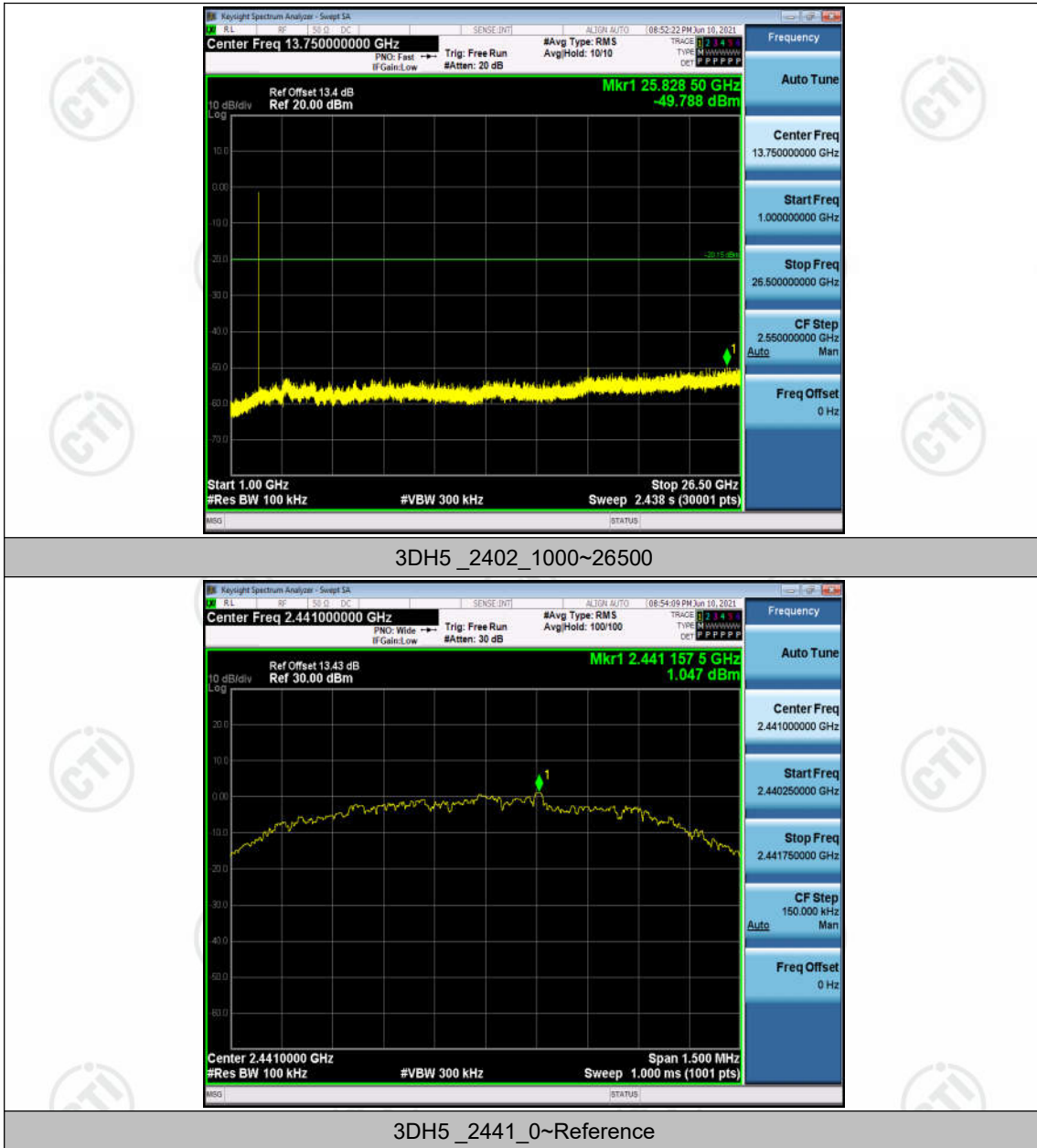


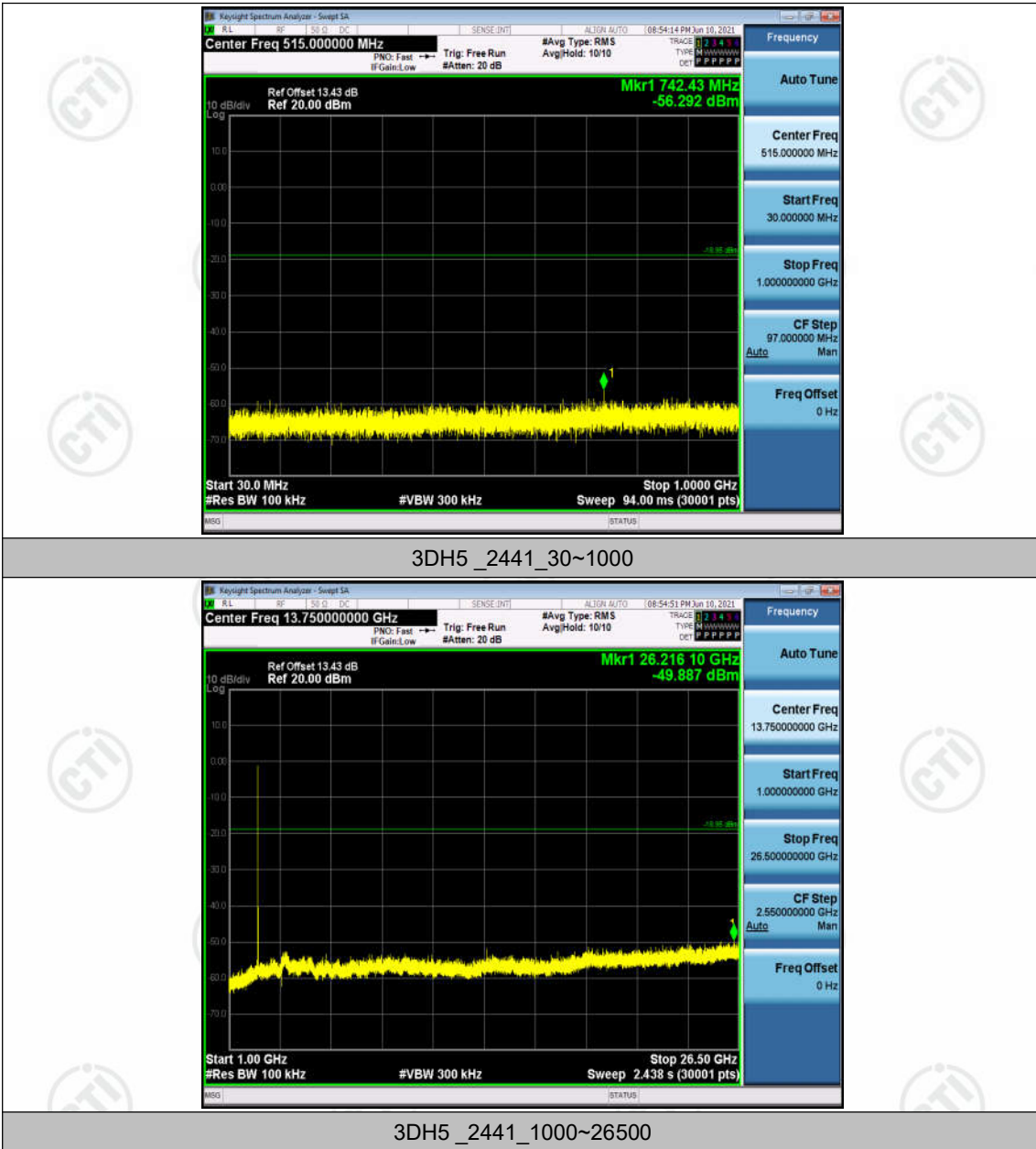


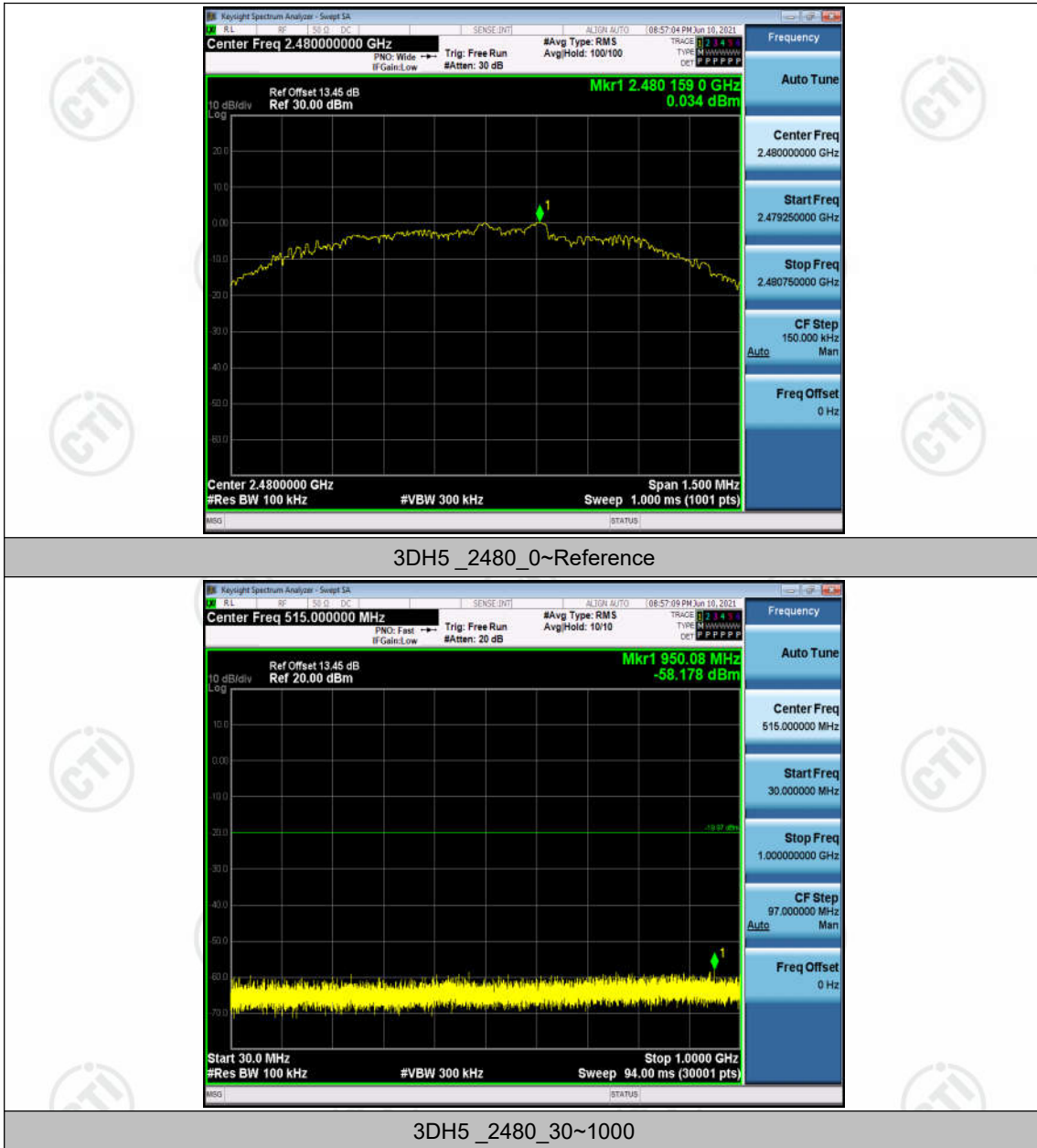


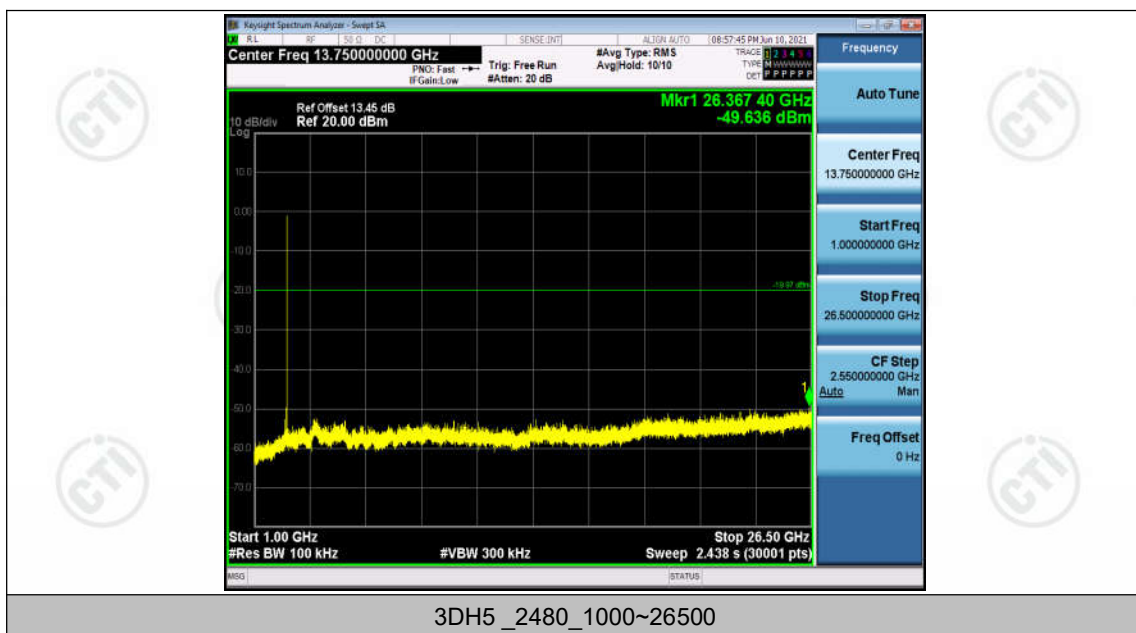








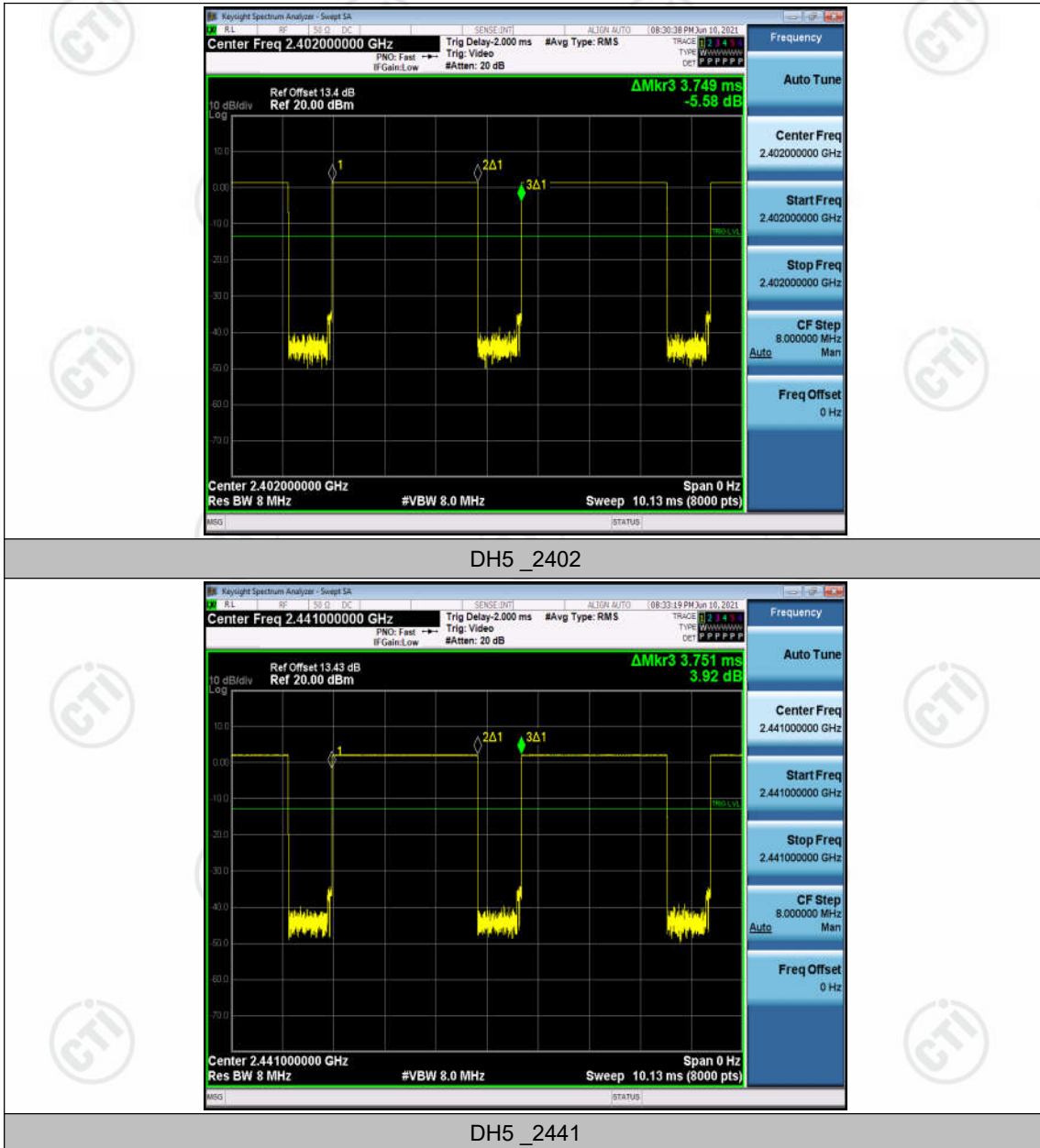


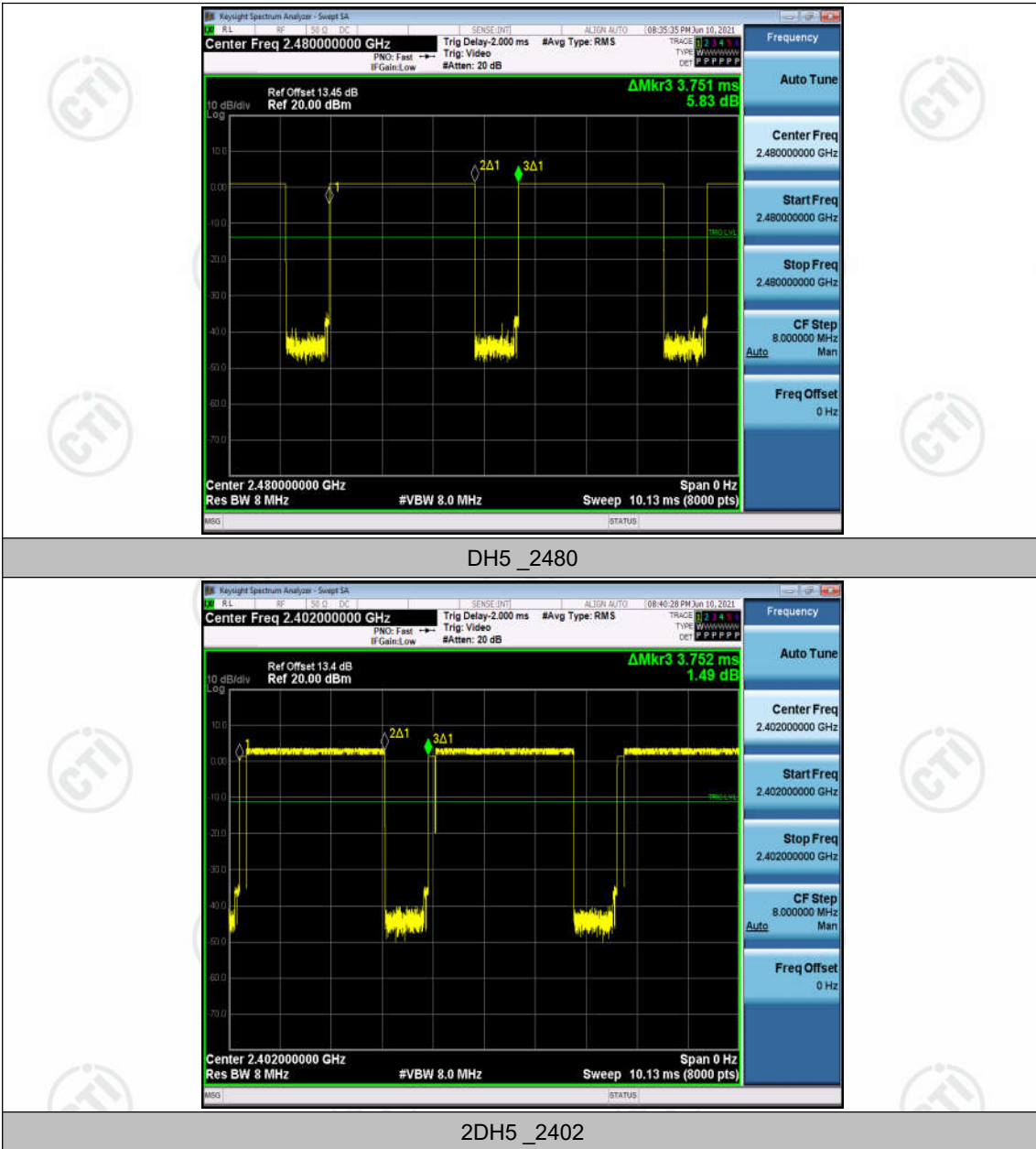


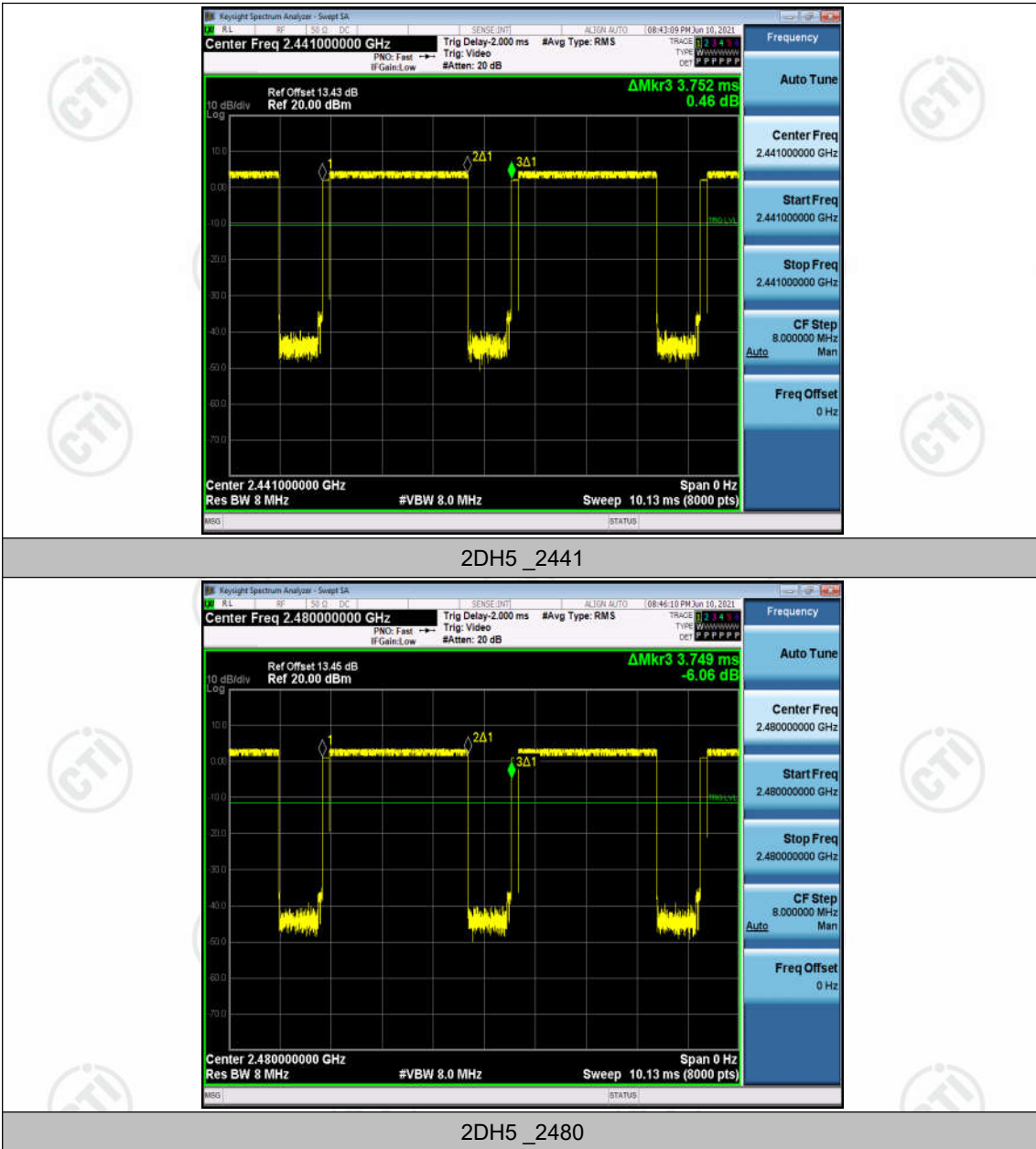
Appendix I: Duty Cycle**Test Result**

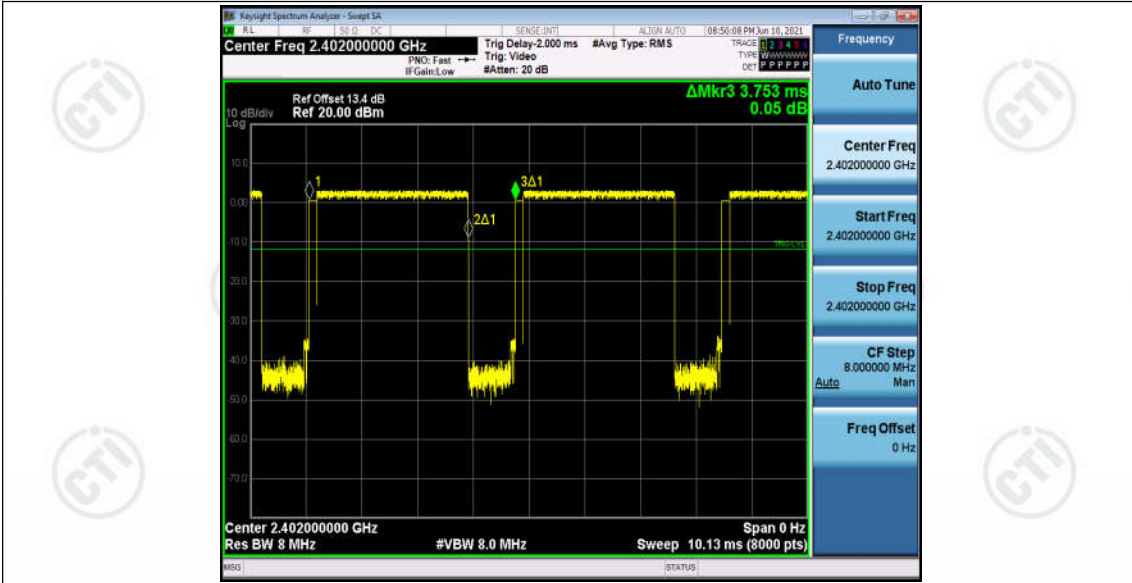
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	76.89	---	PASS
		2441	2.88	3.75	76.87	---	PASS
		2480	2.88	3.75	76.87	---	PASS
2DH5	Ant1	2402	2.89	3.75	76.99	---	PASS
		2441	2.89	3.75	76.99	---	PASS
		2480	2.89	3.75	76.99	---	PASS
3DH5	Ant1	2402	2.89	3.75	77.06	---	PASS
		2441	2.89	3.75	77.06	---	PASS
		2480	2.89	3.75	77.06	---	PASS

Test Graphs

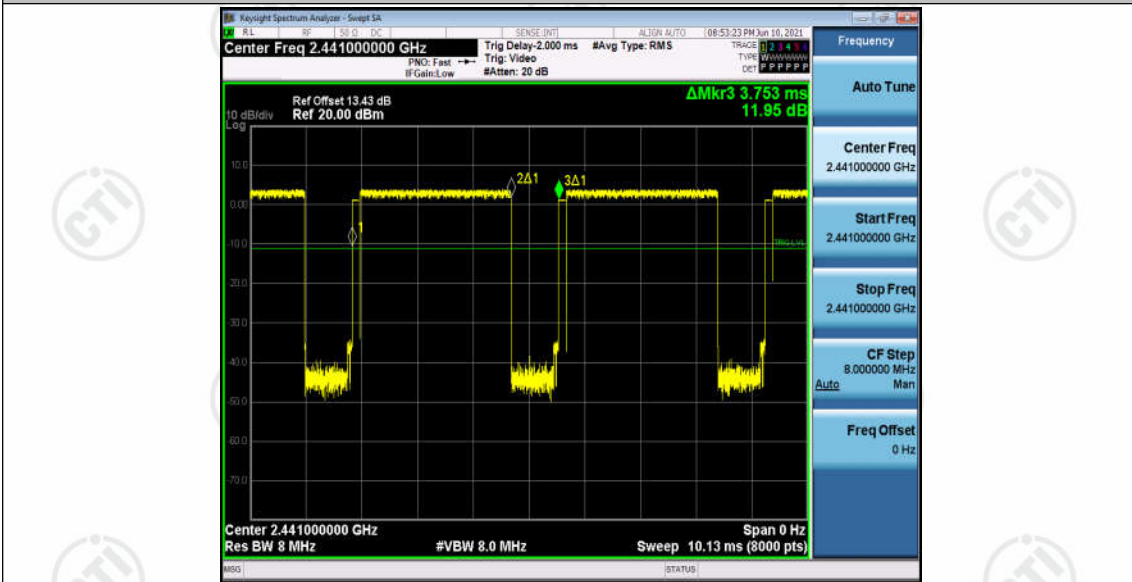




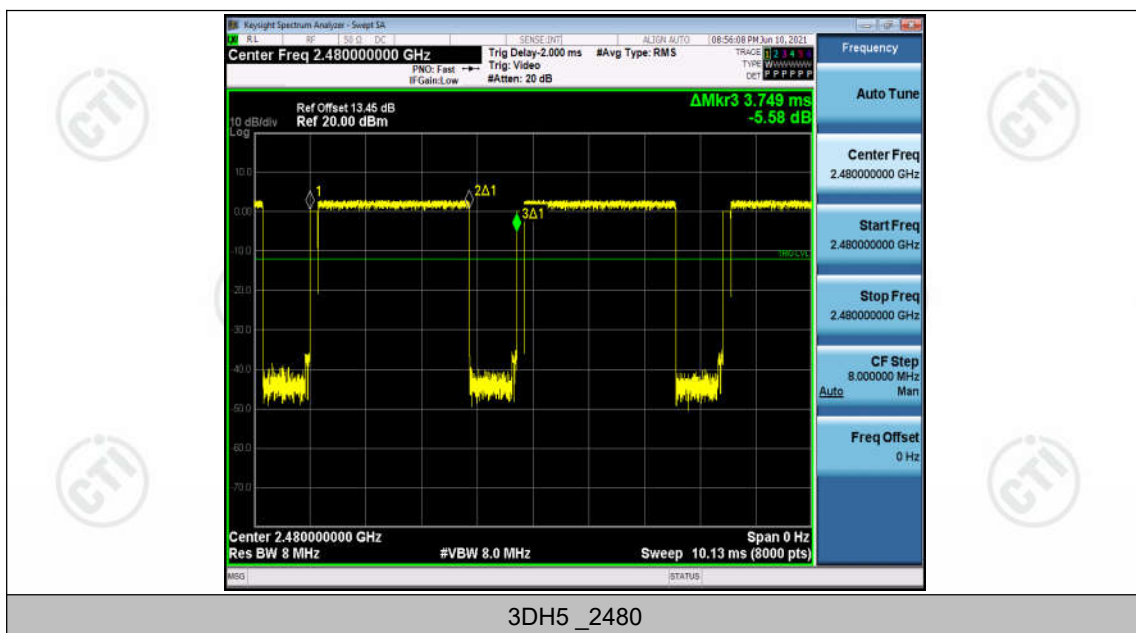




3DH5_2402



3DH5_2441



*** End of Report ***