

Appendix: Bluetooth Classic

Contents

AppendixA: 20dB Emission Bandwidth.....	3
Test Result.....	3
Test Graphs.....	4
AppendixB: Occupied Channel Bandwidth.....	9
Test Result.....	9
Test Graphs.....	10
AppendixC: Maximum conducted output power.....	15
Test Result.....	15
Test Graphs.....	16
AppendixD: Carrier frequency separation.....	21
Test Result.....	21
Test Graphs.....	22
AppendixE: Time of occupancy.....	27
Test Result.....	27
Test Graphs.....	28
AppendixF: Number of hopping channels.....	37
Test Result.....	37
Test Graphs.....	38
AppendixG: Band edge measurements.....	40
Test Result.....	40
Test Graphs.....	41
AppendixH: Conducted Spurious Emission.....	47
Test Result.....	47
Test Graphs.....	48
AppendixI: Duty Cycle.....	62
Test Result.....	62
Test Graphs.....	63

AppendixA: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.930	2401.580	2402.510	---	PASS
		2441	0.978	2440.544	2441.522	---	PASS
		2480	0.930	2479.583	2480.513	---	PASS
2DH5	Ant1	2402	1.341	2401.370	2402.711	---	PASS
		2441	1.341	2440.361	2441.702	---	PASS
		2480	1.353	2479.364	2480.717	---	PASS
3DH5	Ant1	2402	1.320	2401.385	2402.705	---	PASS
		2441	1.395	2440.322	2441.717	---	PASS
		2480	1.368	2479.349	2480.717	---	PASS

Test Graphs



DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

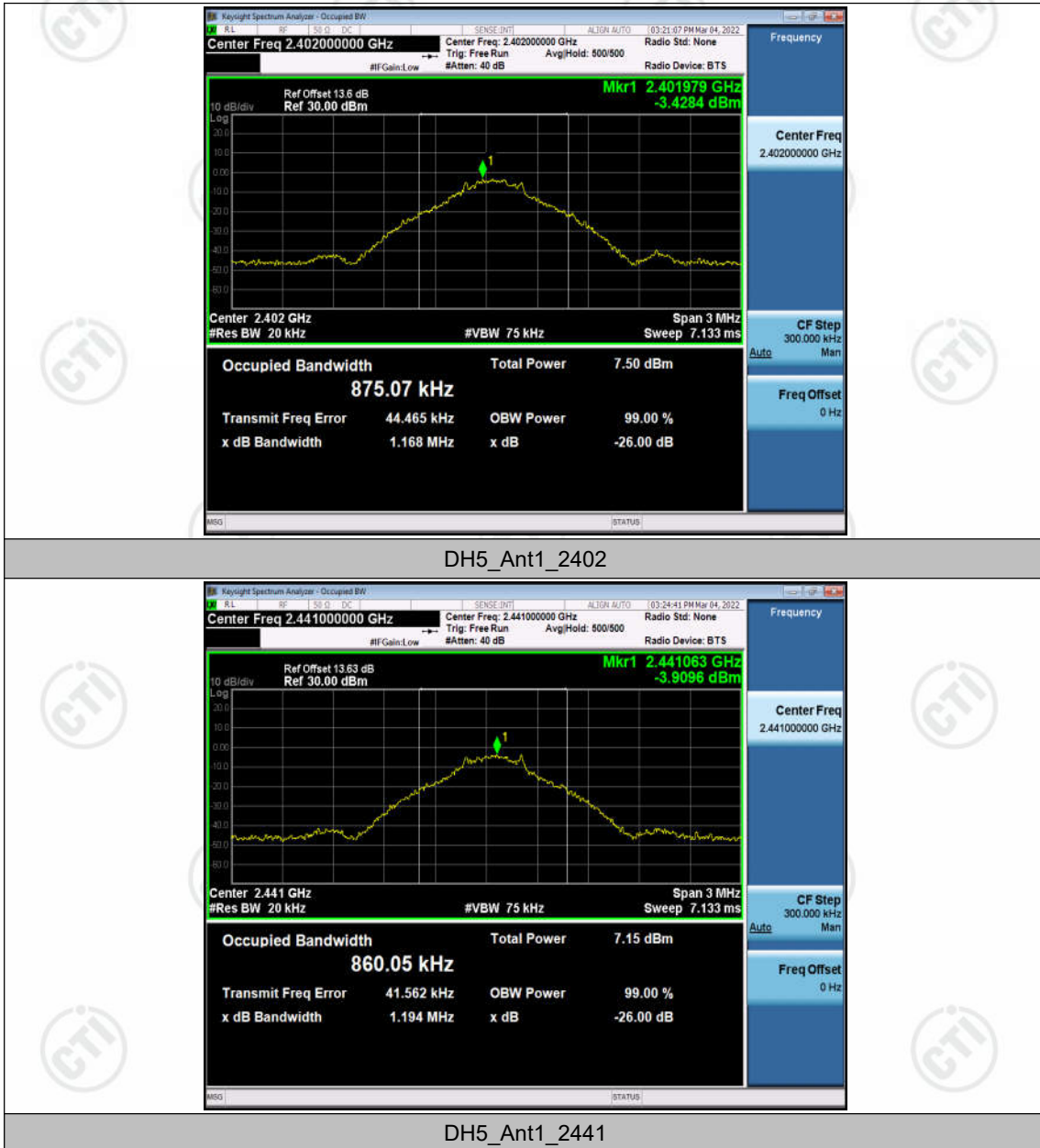


3DH5_Ant1_2480

AppendixB: Occupied Channel Bandwidth**Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87507	2401.607	2402.482	---	PASS
		2441	0.86005	2440.612	2441.472	---	PASS
		2480	0.87190	2479.605	2480.477	---	PASS
2DH5	Ant1	2402	1.2087	2401.436	2402.645	---	PASS
		2441	1.2195	2440.432	2441.652	---	PASS
		2480	1.2157	2479.430	2480.646	---	PASS
3DH5	Ant1	2402	1.2138	2401.427	2402.641	---	PASS
		2441	1.2236	2440.424	2441.648	---	PASS
		2480	1.2437	2479.404	2480.648	---	PASS

Test Graphs

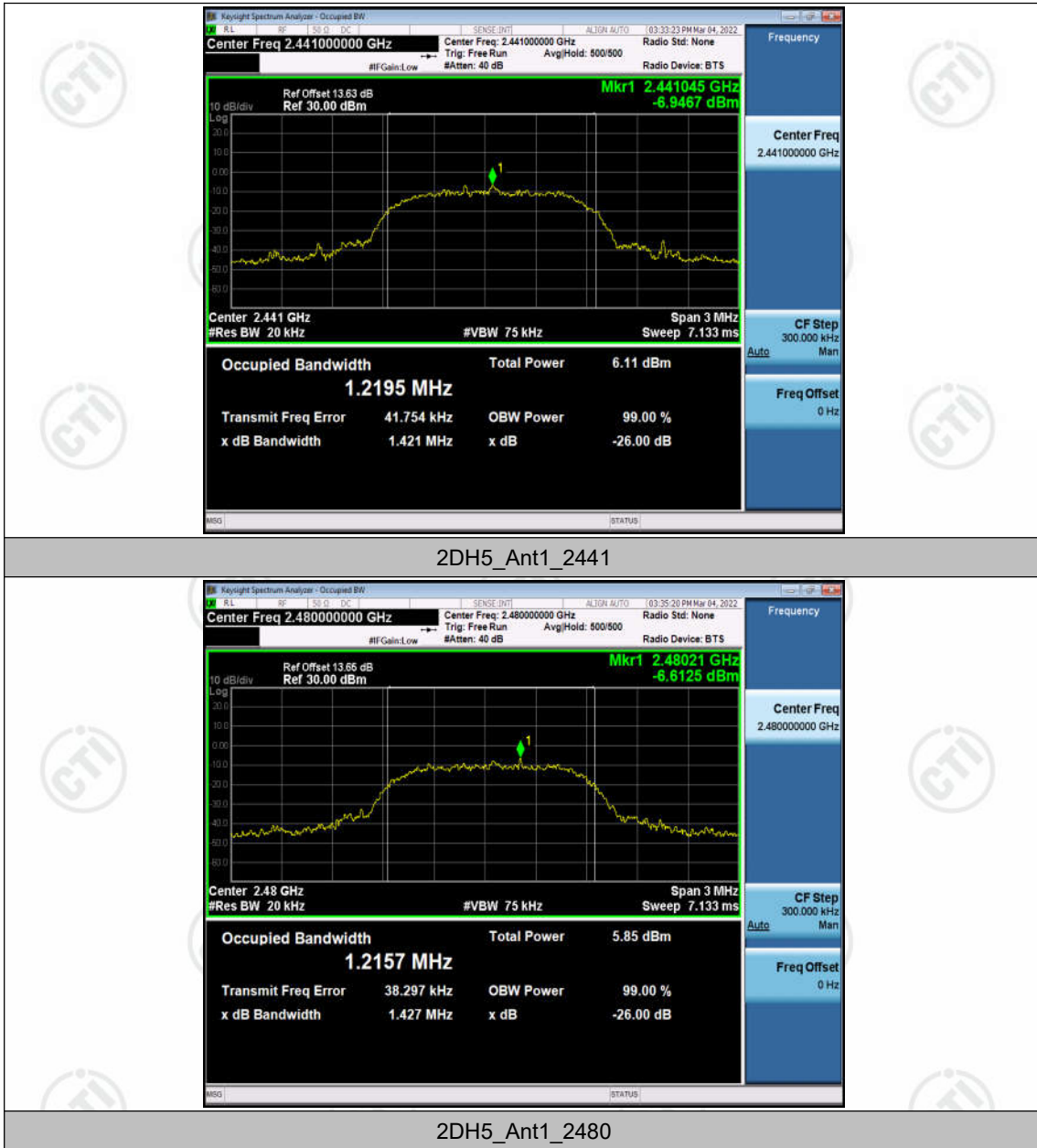




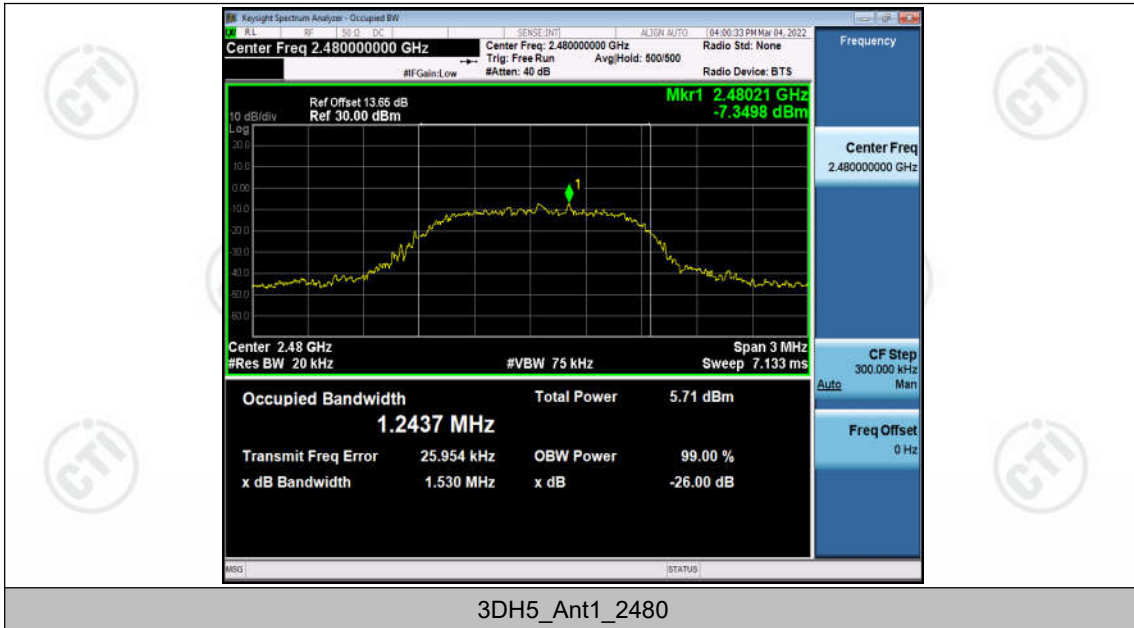
DH5_Ant1_2480



2DH5_Ant1_2402







AppendixC: Maximum conducted output power**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.32	<=20.97	PASS
		2441	-0.65	<=20.97	PASS
		2480	-1	<=20.97	PASS
2DH5	Ant1	2402	0.6	<=20.97	PASS
		2441	0.07	<=20.97	PASS
		2480	-0.35	<=20.97	PASS
3DH5	Ant1	2402	0.82	<=20.97	PASS
		2441	0.41	<=20.97	PASS
		2480	0.17	<=20.97	PASS

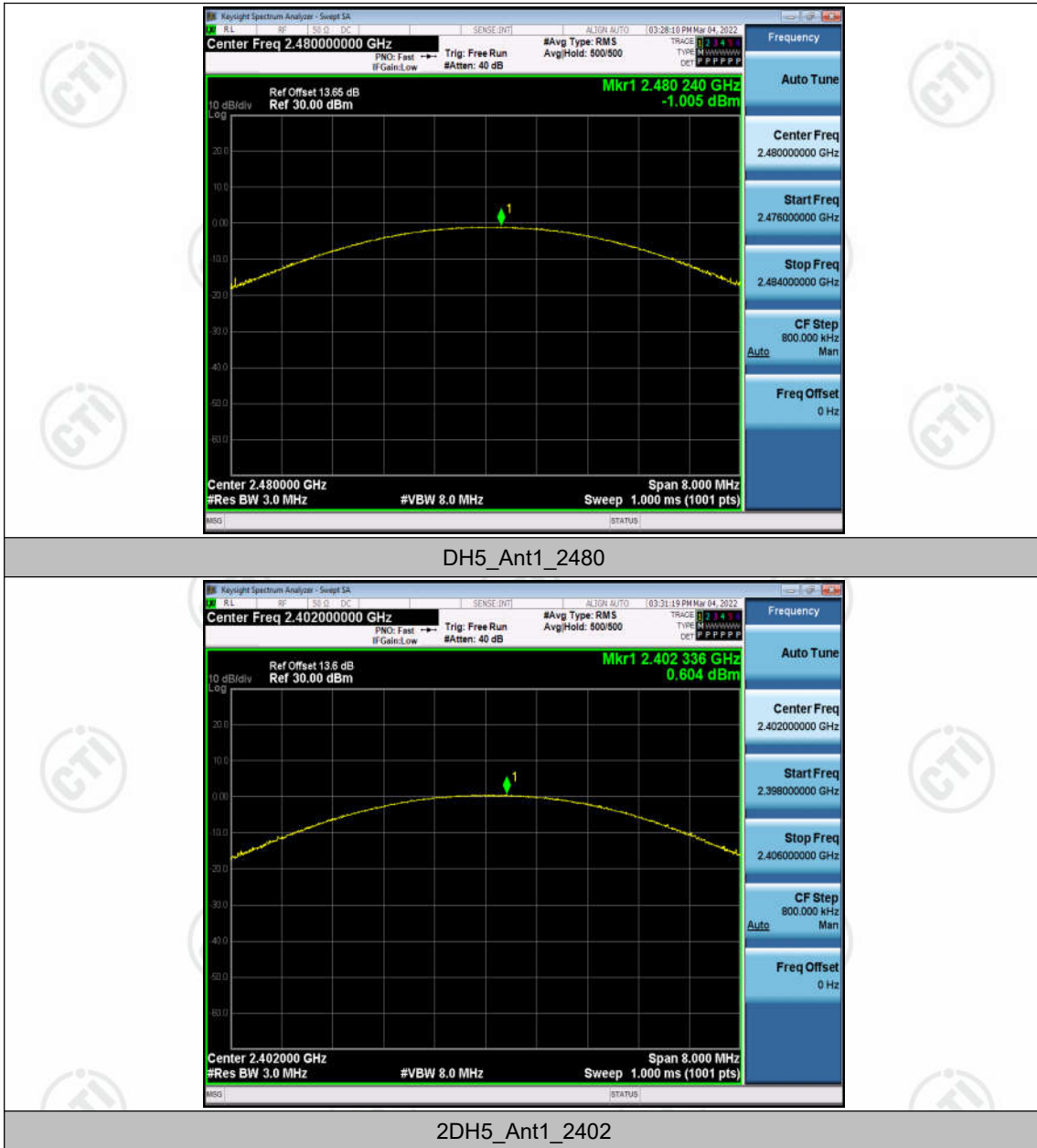
Test Graphs



DH5_Ant1_2402



DH5_Ant1_2441

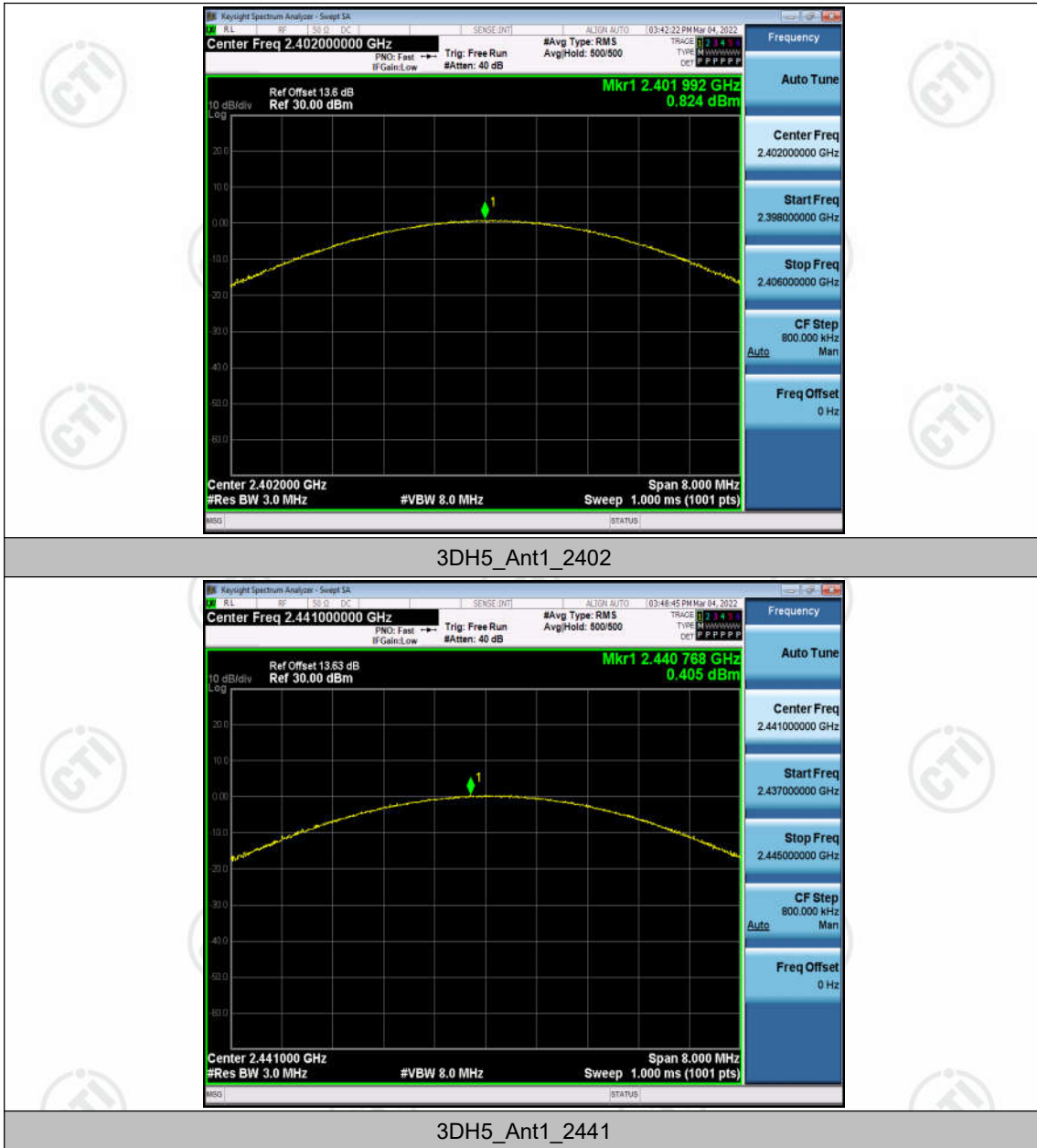


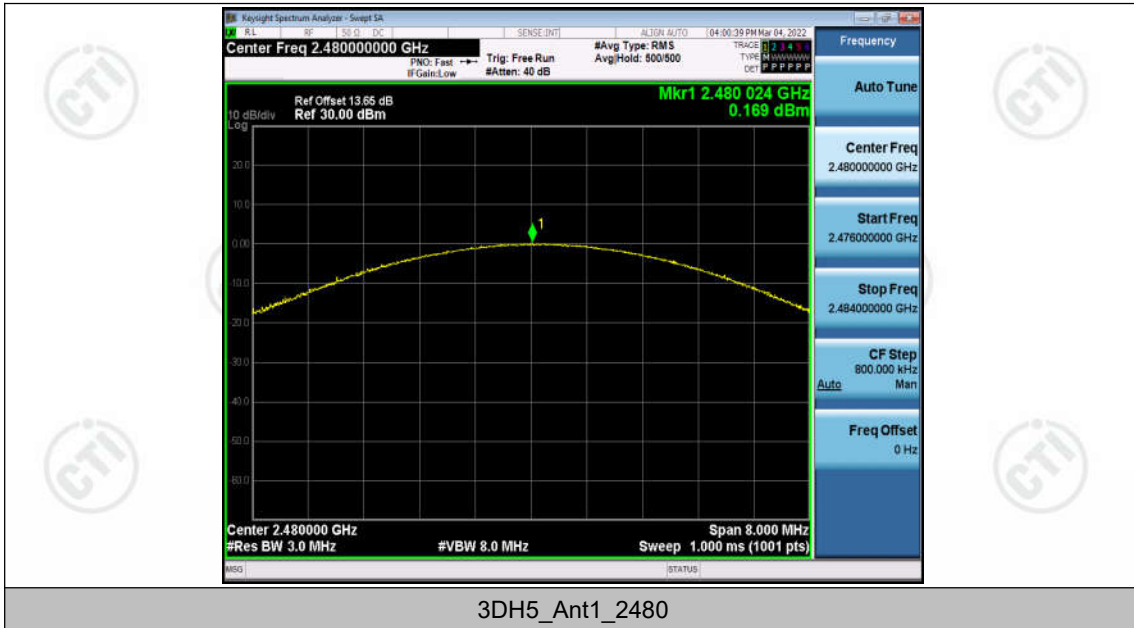


2DH5_Ant1_2441



2DH5_Ant1_2480



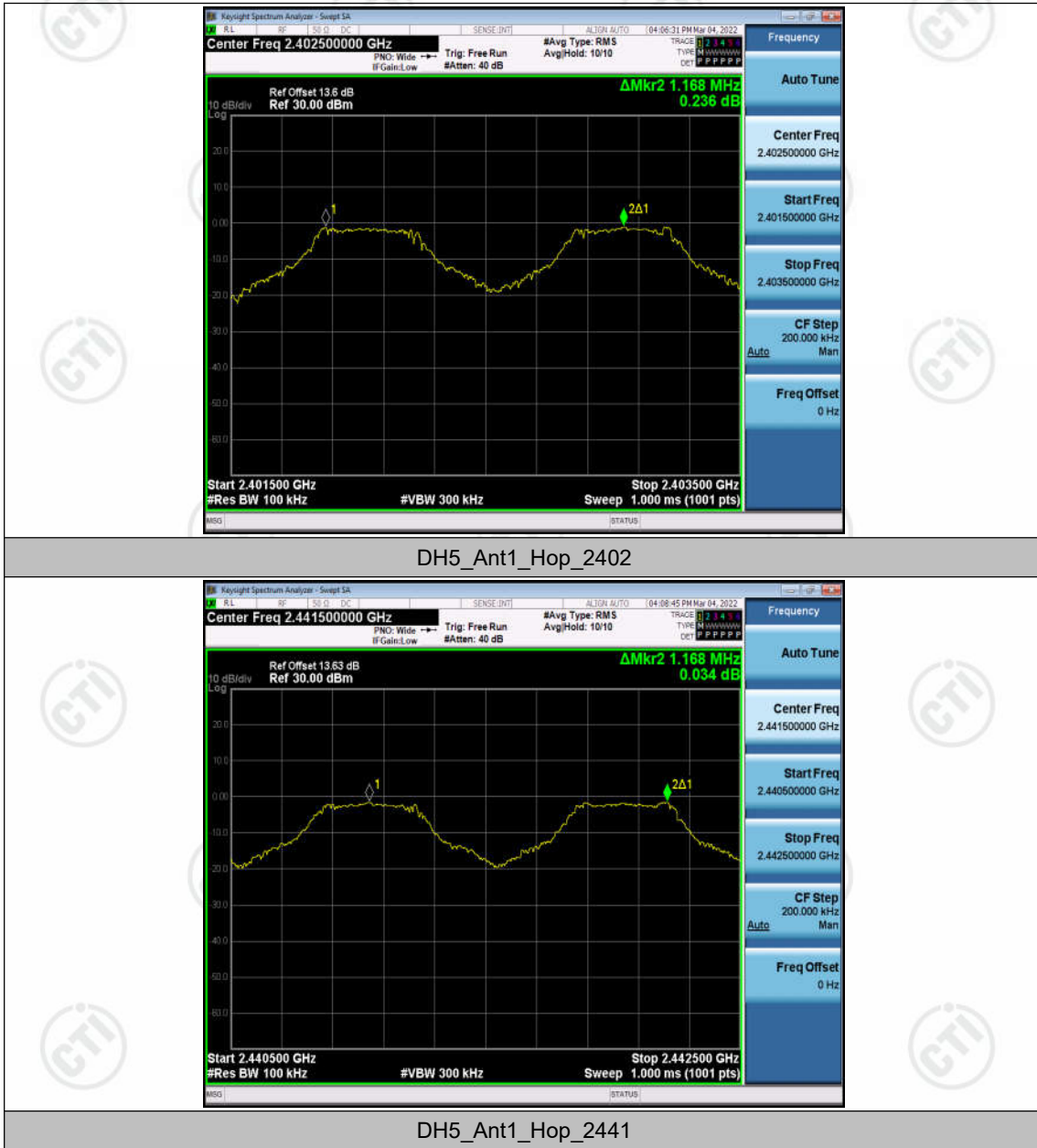


3DH5_Ant1_2480

AppendixD: Carrier frequency separation**Test Result**

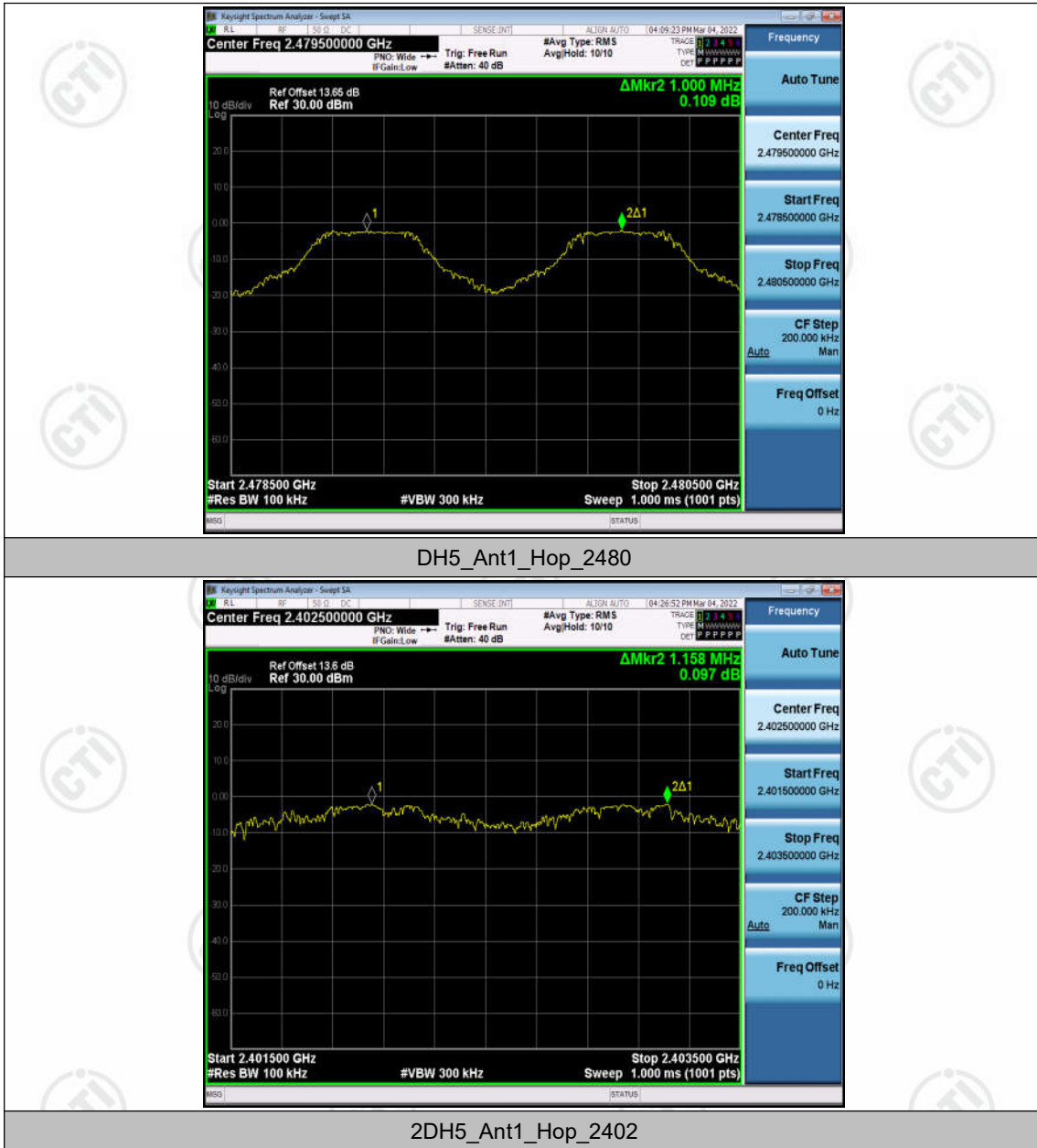
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop_2402	1.168	≥ 0.978	PASS
		Hop_2441	1.168	≥ 0.978	PASS
		Hop_2480	1	≥ 0.978	PASS
2DH5	Ant1	Hop_2402	1.158	≥ 0.902	PASS
		Hop_2441	0.998	≥ 0.902	PASS
		Hop_2480	1.142	≥ 0.902	PASS
3DH5	Ant1	Hop_2402	1.092	≥ 0.930	PASS
		Hop_2441	1.014	≥ 0.930	PASS
		Hop_2480	0.982	≥ 0.930	PASS

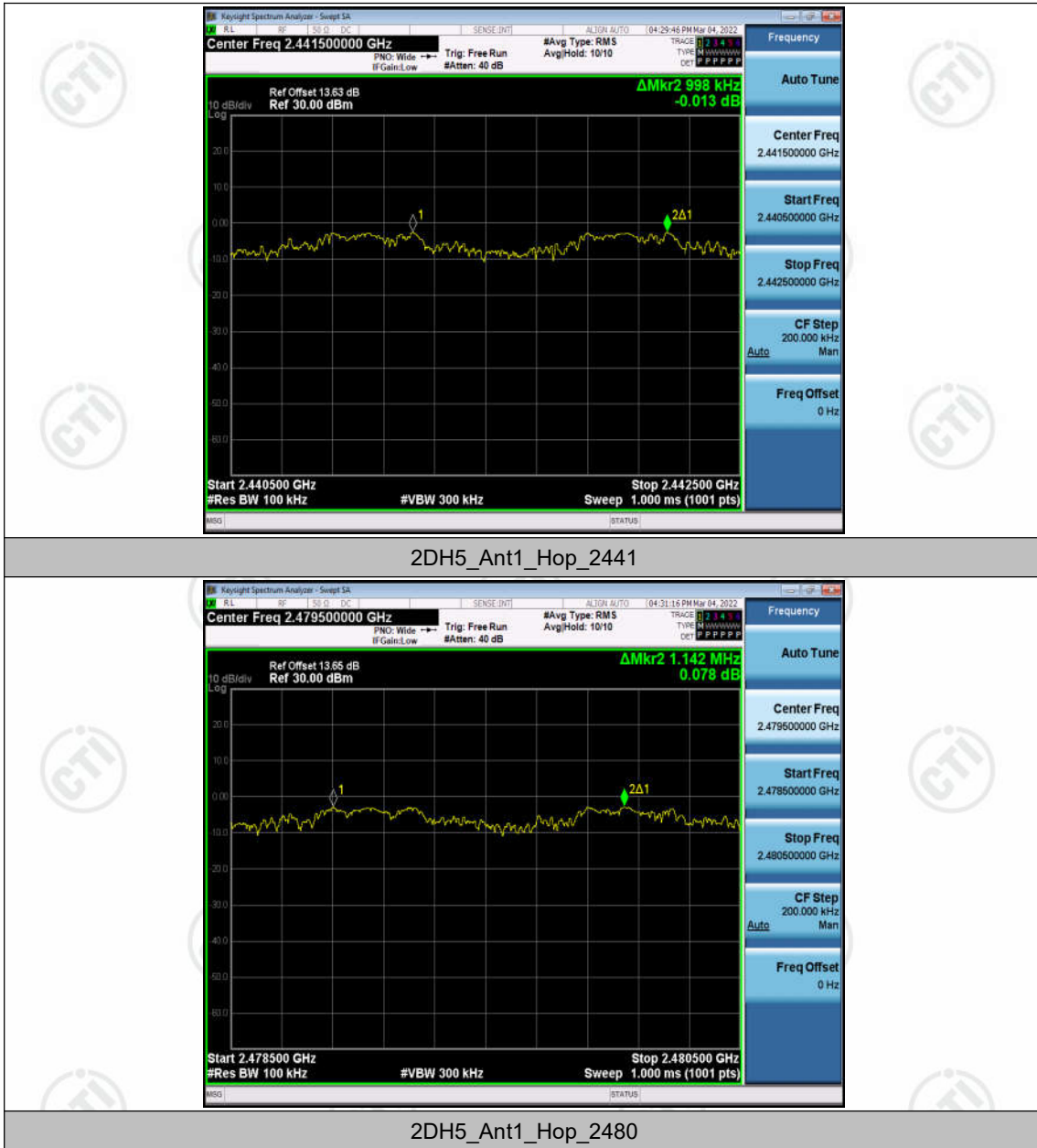
Test Graphs

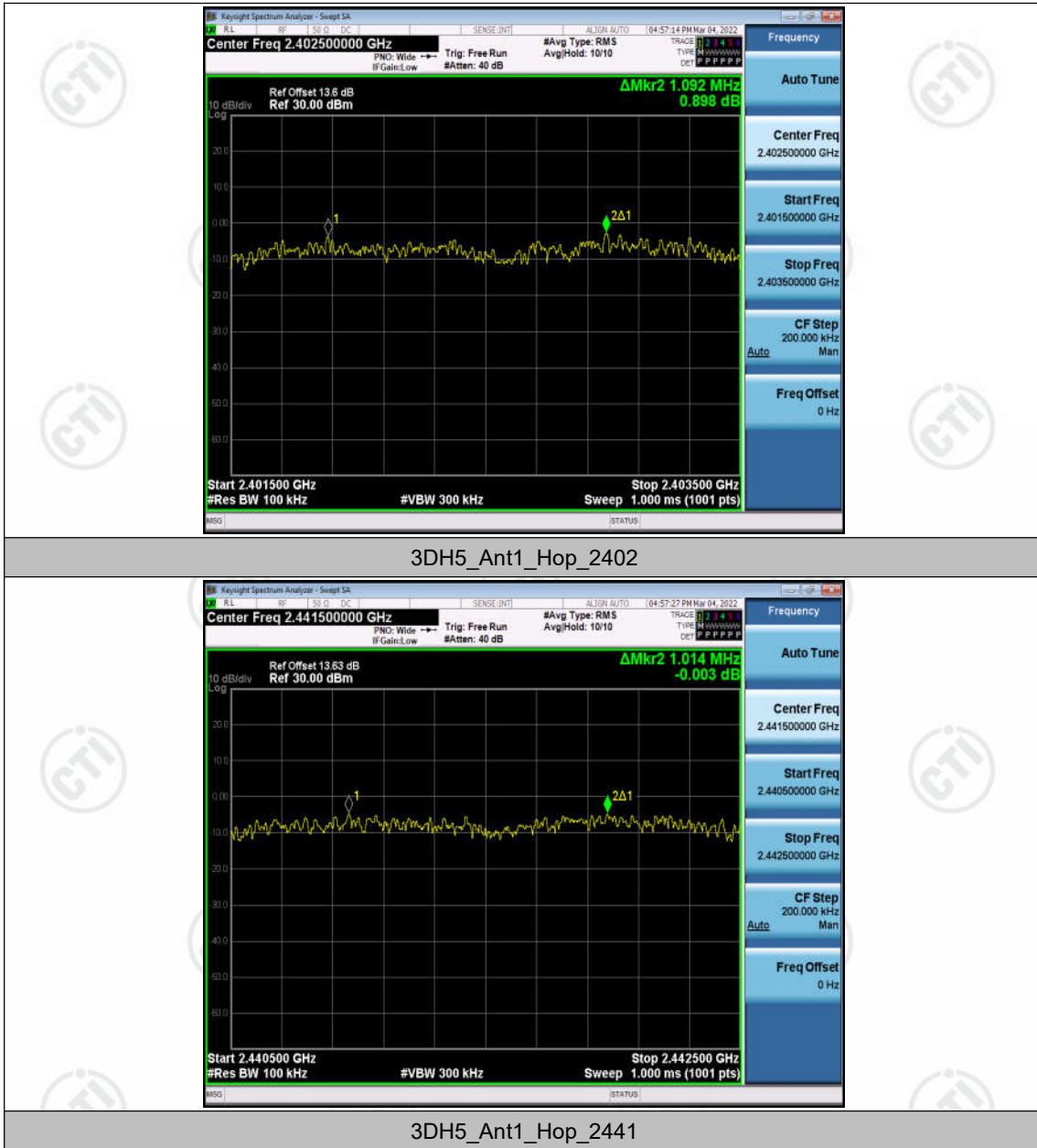


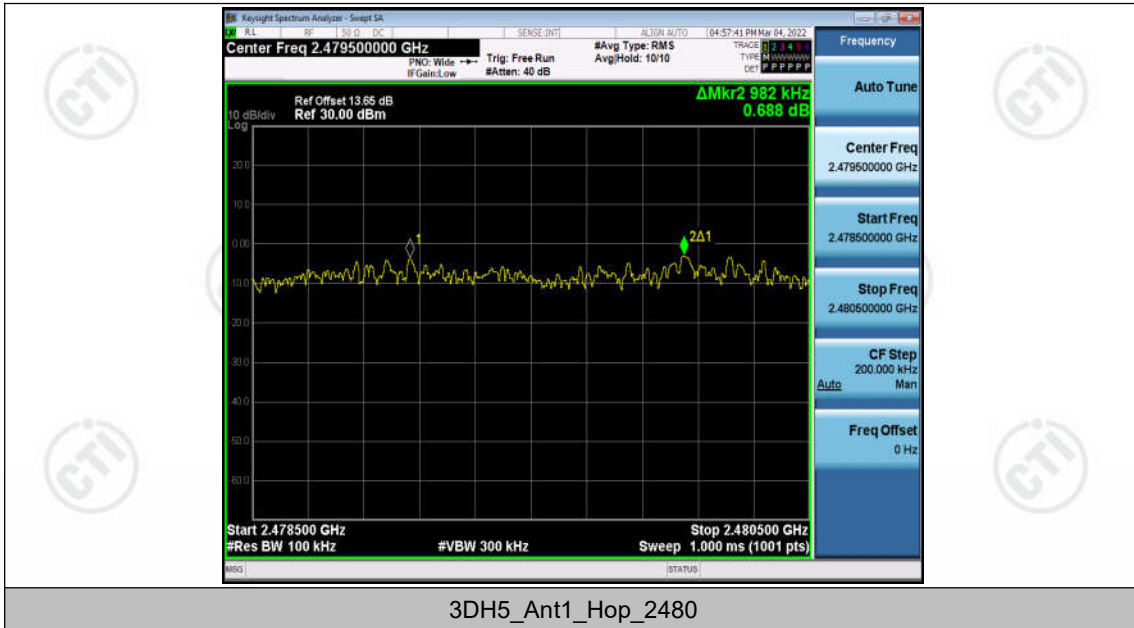
DH5_Ant1_Hop_2402

DH5_Ant1_Hop_2441





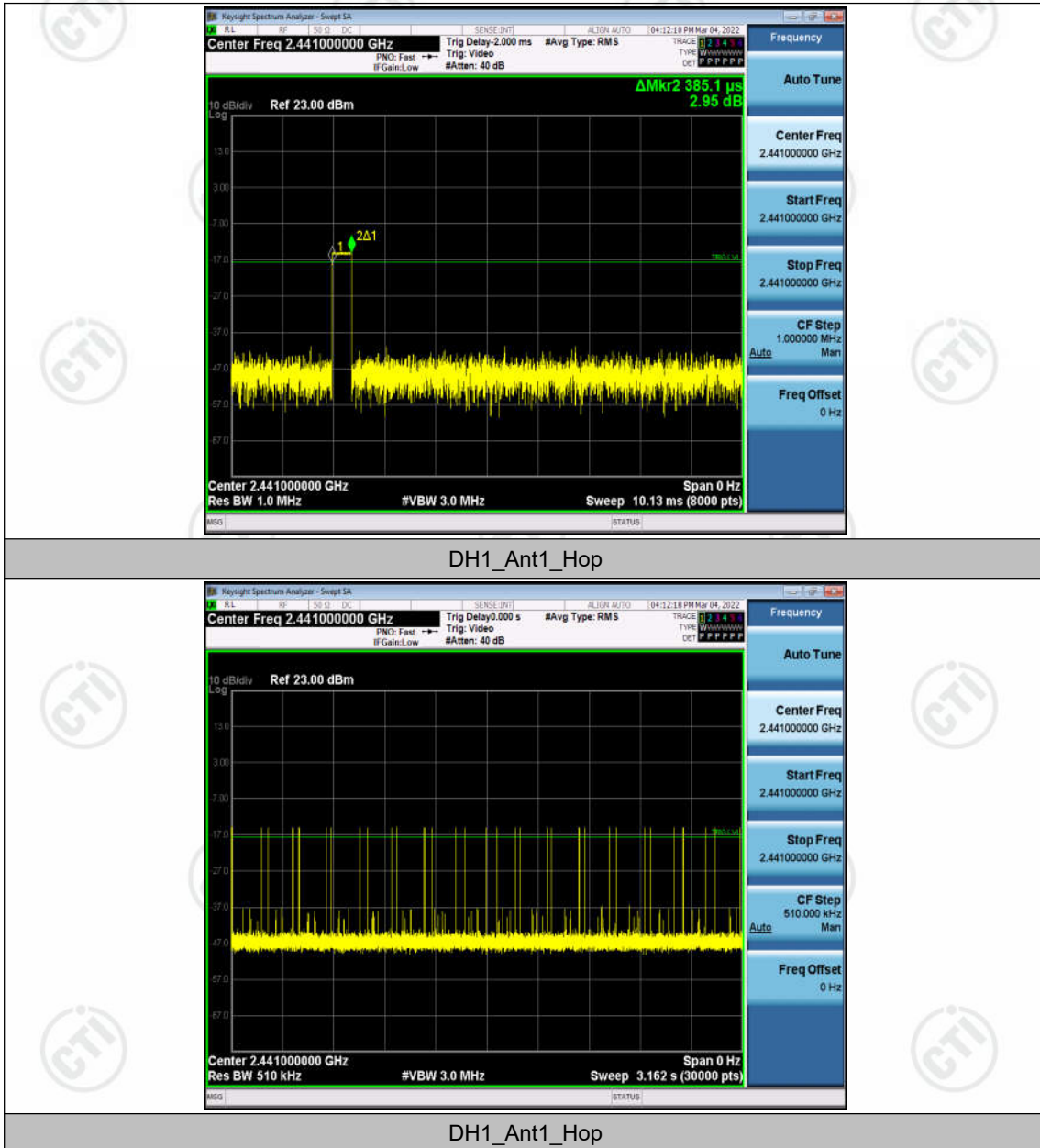


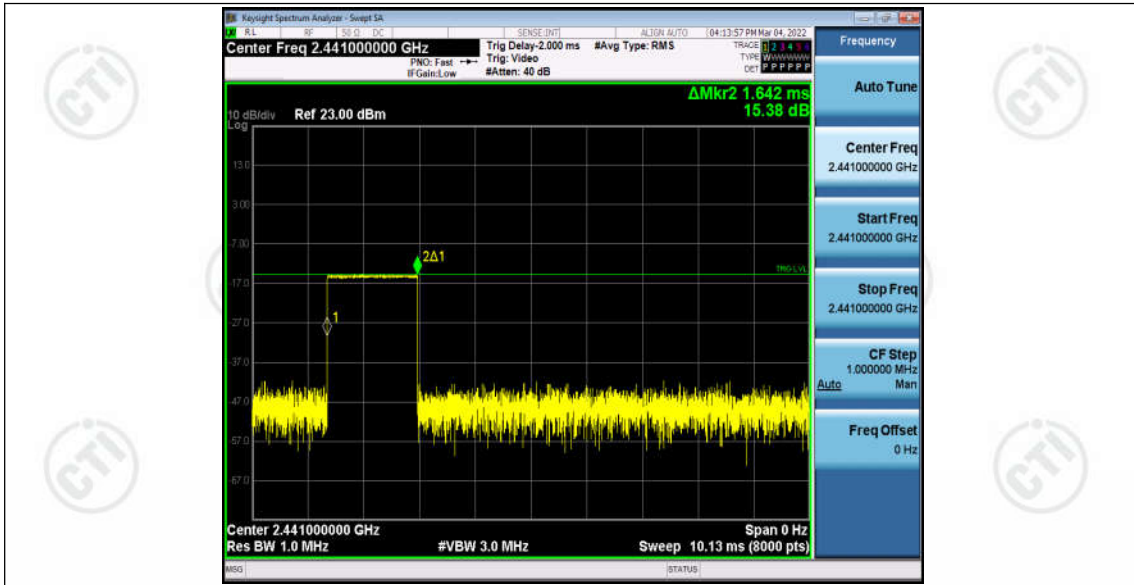


AppendixE: Time of occupancy**Test Result**

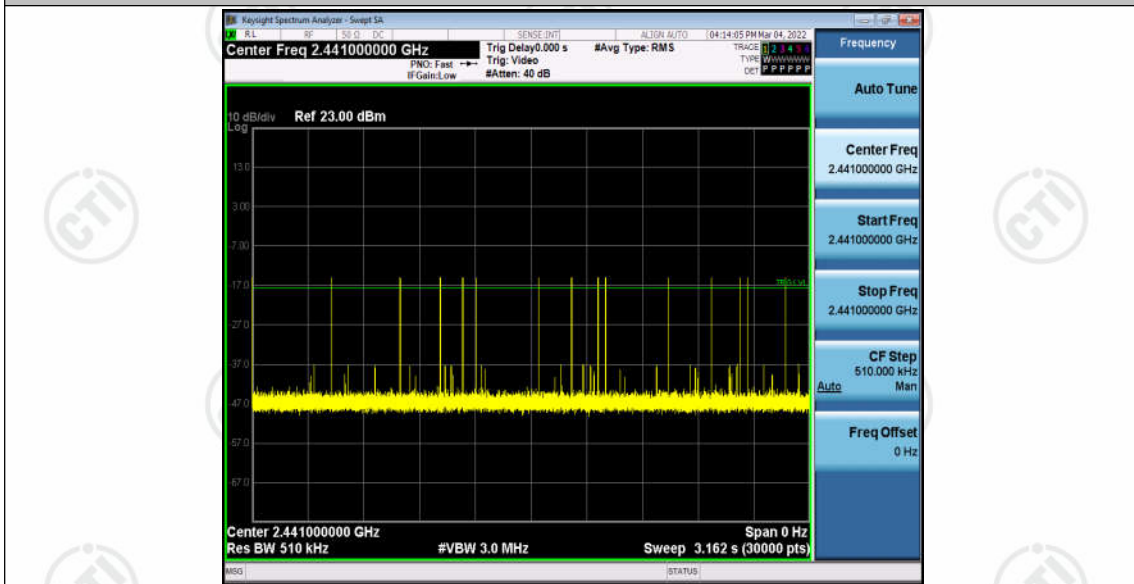
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	330	0.127	<=0.4	PASS
DH3	Ant1	Hop	1.64	150	0.246	<=0.4	PASS
DH5	Ant1	Hop	2.89	60	0.173	<=0.4	PASS
2DH1	Ant1	Hop	0.39	330	0.129	<=0.4	PASS
2DH3	Ant1	Hop	1.64	150	0.246	<=0.4	PASS
2DH5	Ant1	Hop	2.89	120	0.347	<=0.4	PASS
3DH1	Ant1	Hop	0.39	320	0.125	<=0.4	PASS
3DH3	Ant1	Hop	1.64	170	0.279	<=0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.347	<=0.4	PASS

Test Graphs

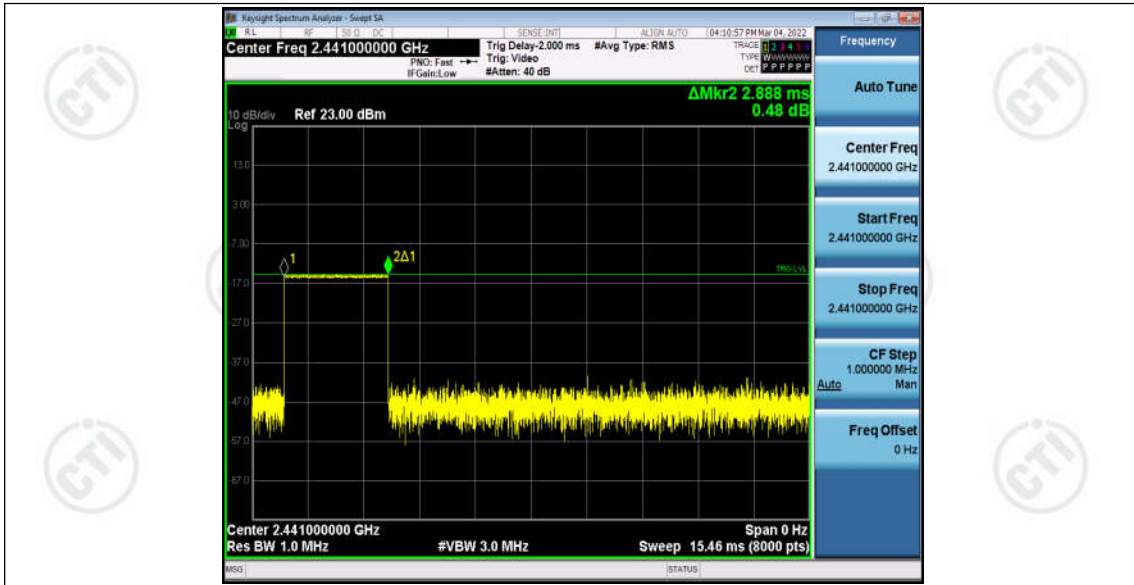




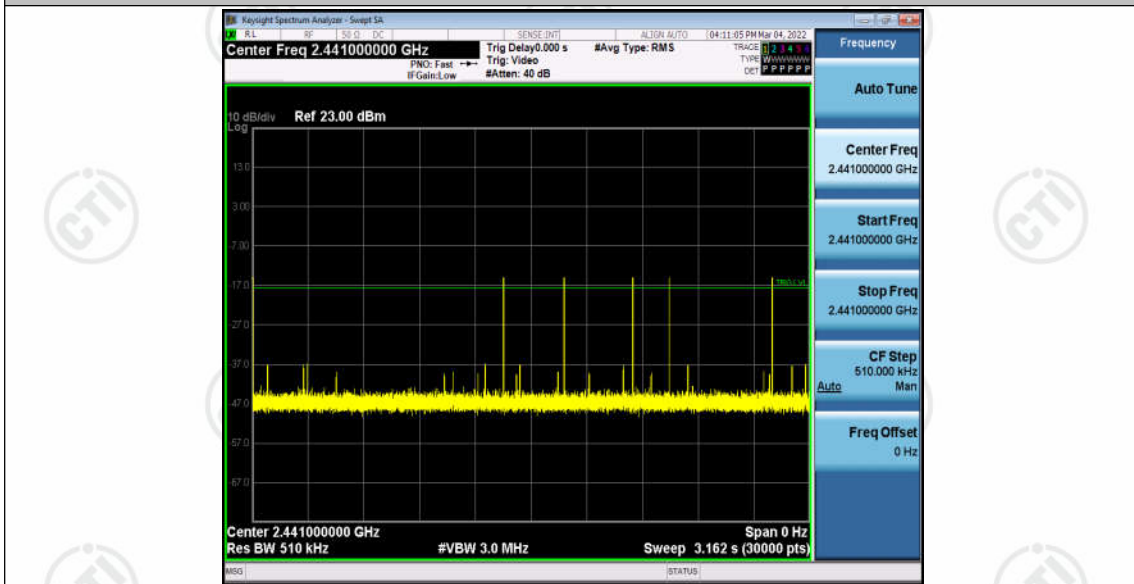
DH3_Ant1_Hop



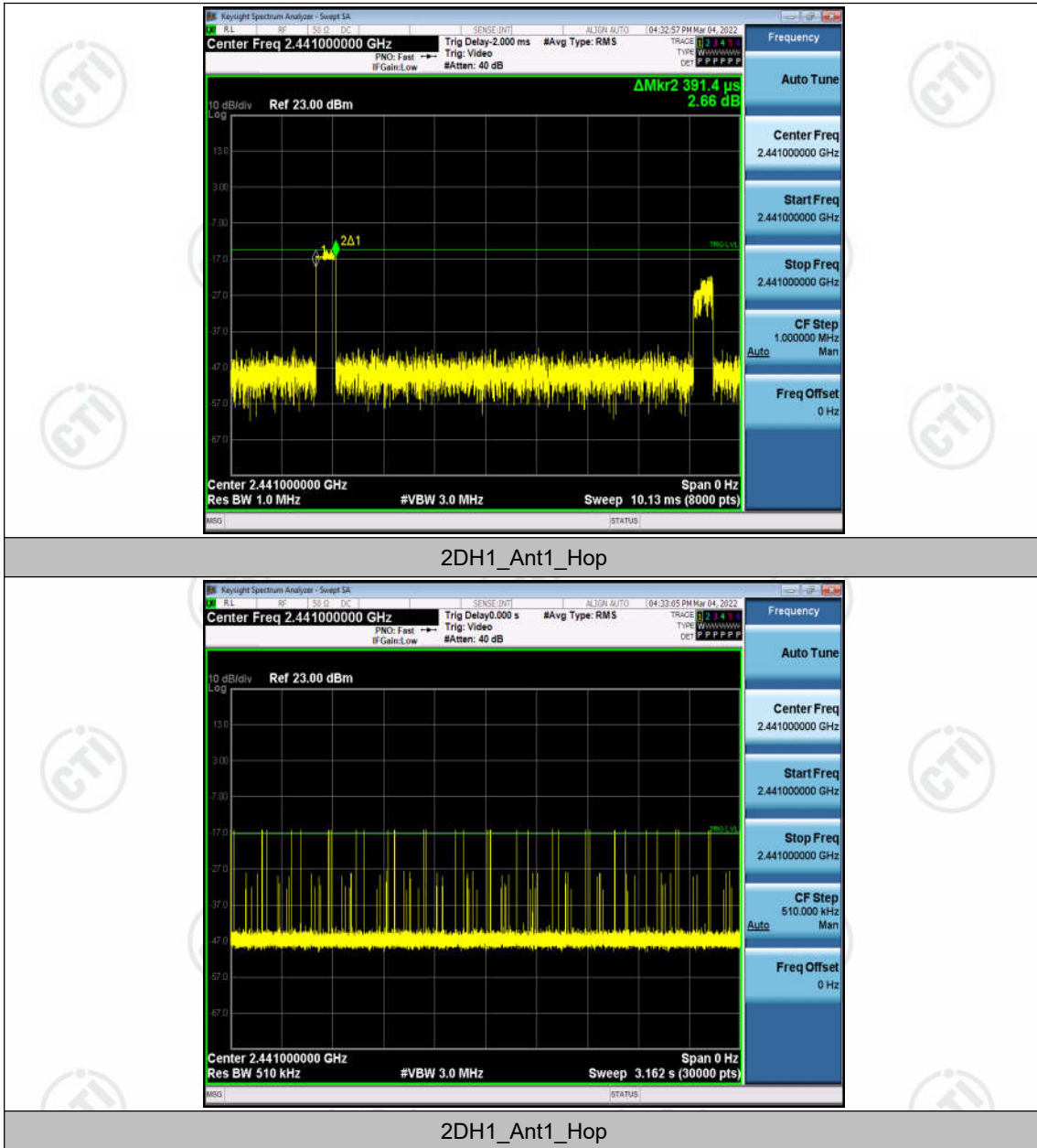
DH3_Ant1_Hop

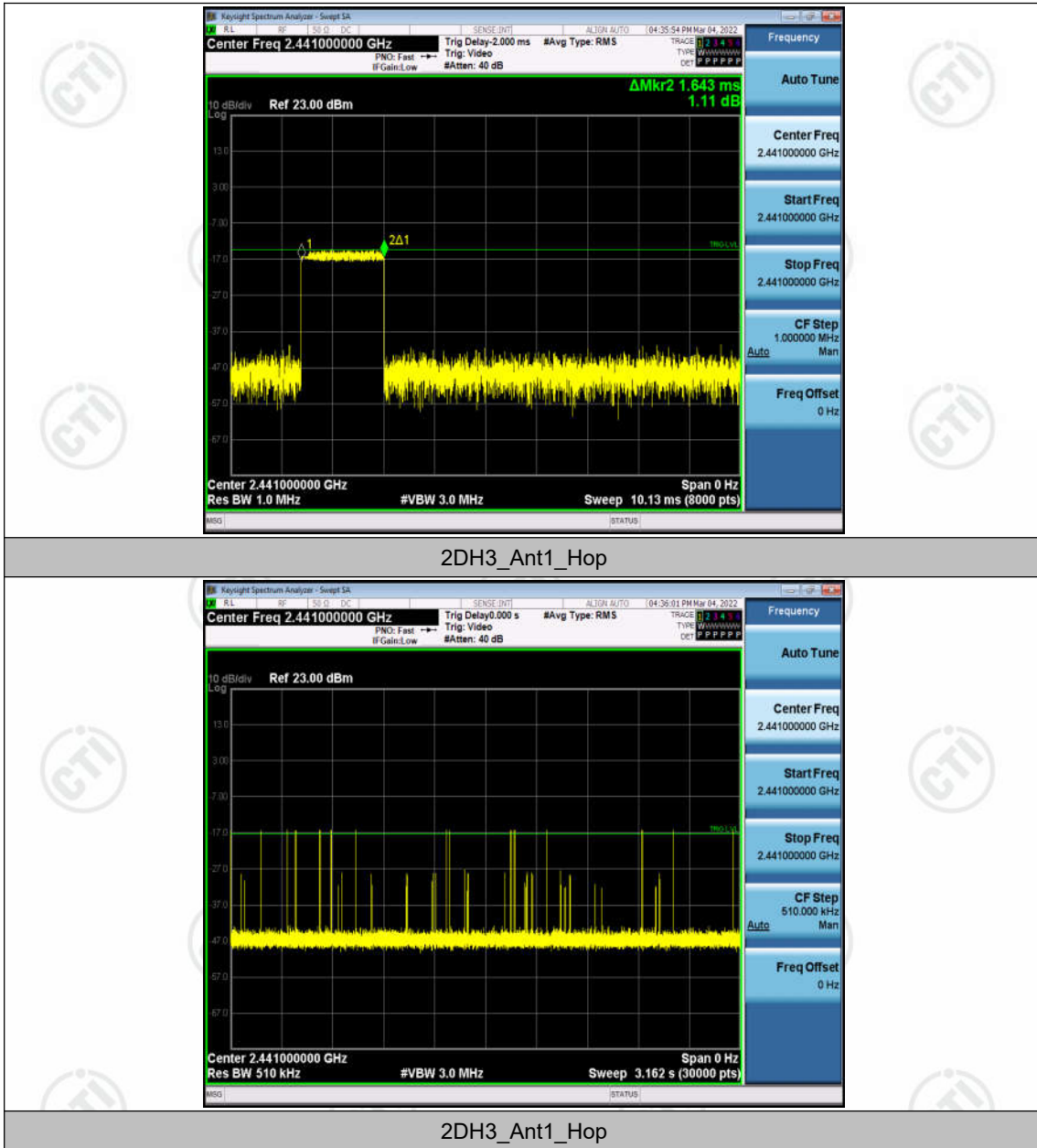


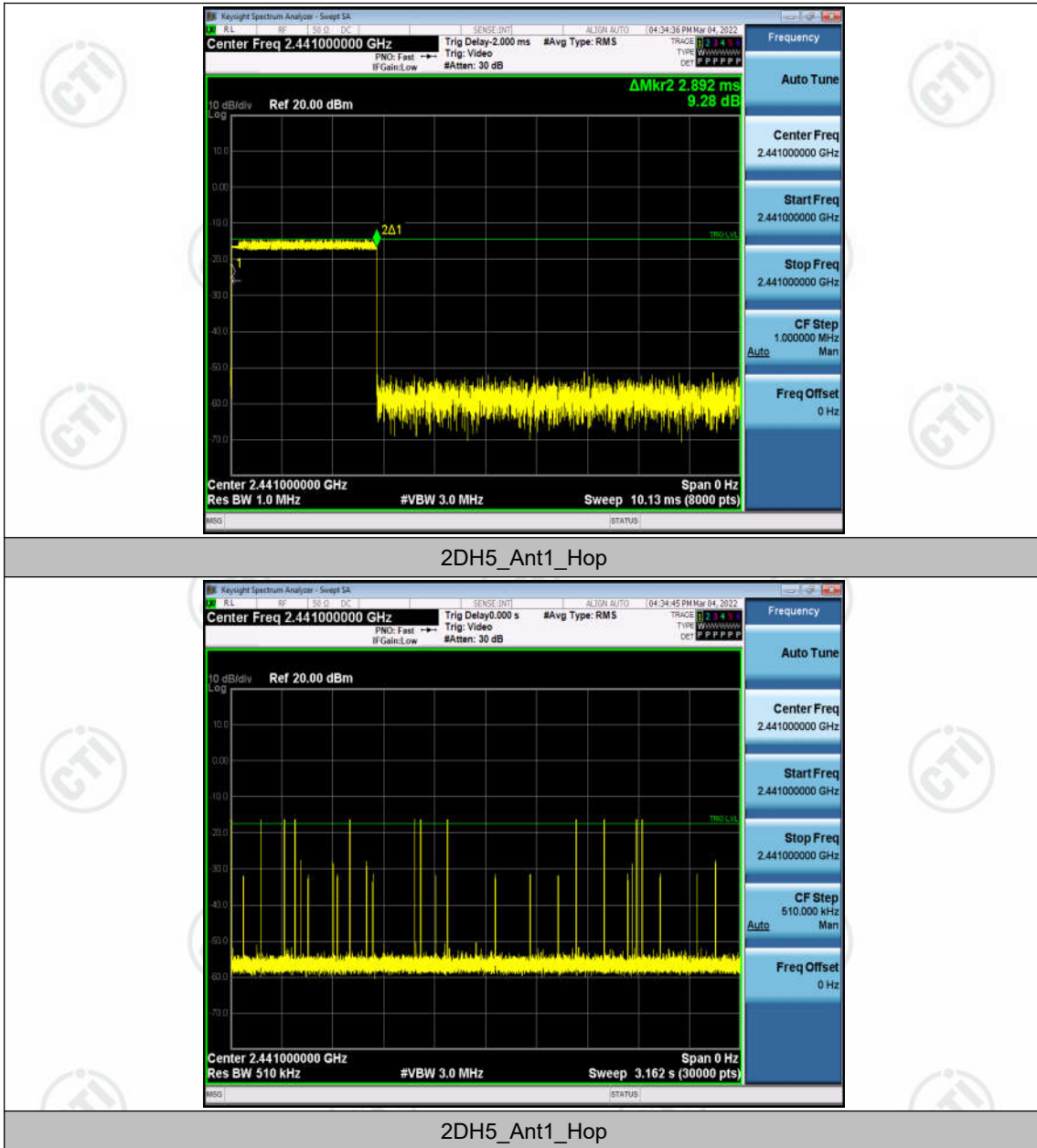
DH5_Ant1_Hop

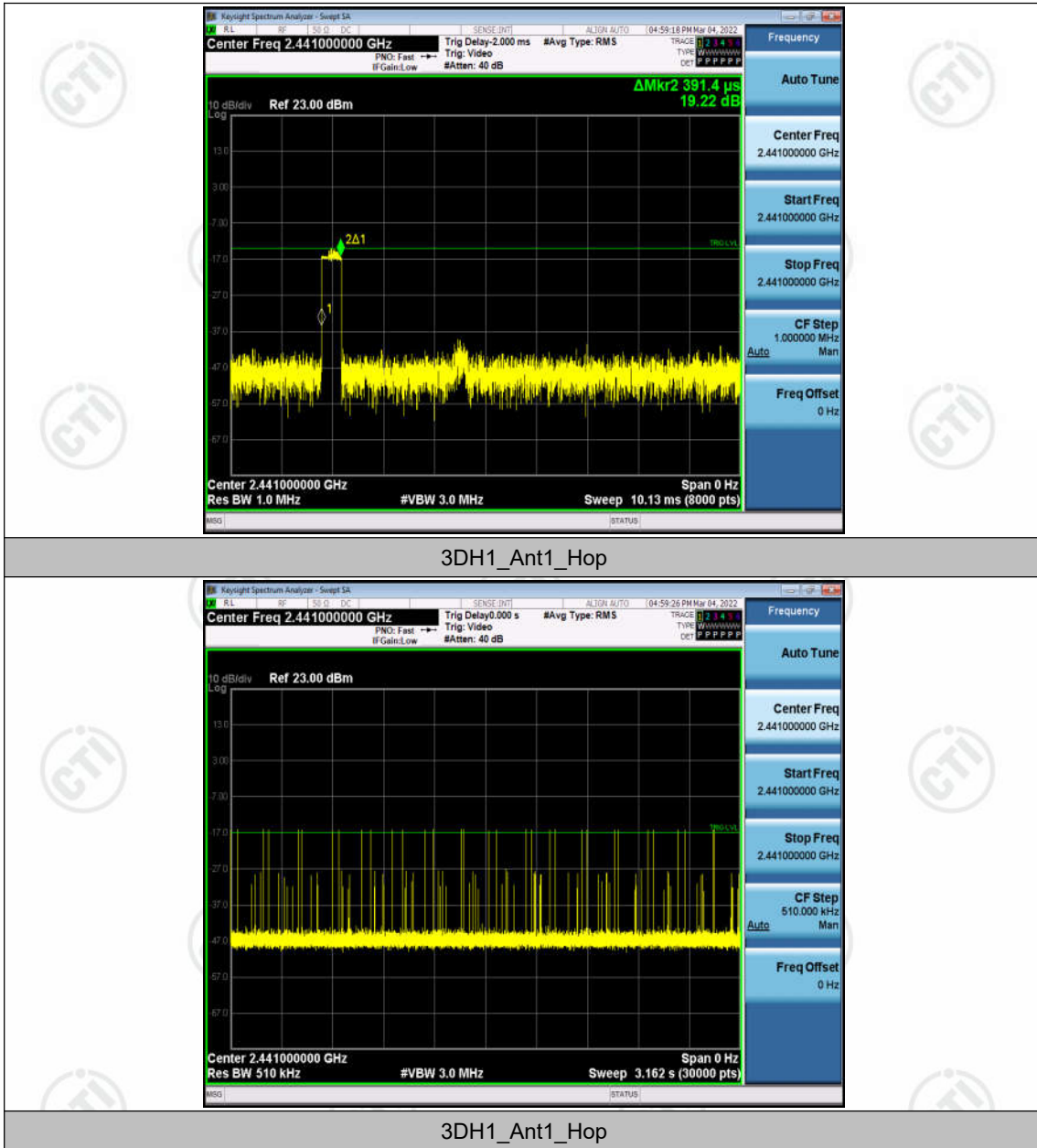


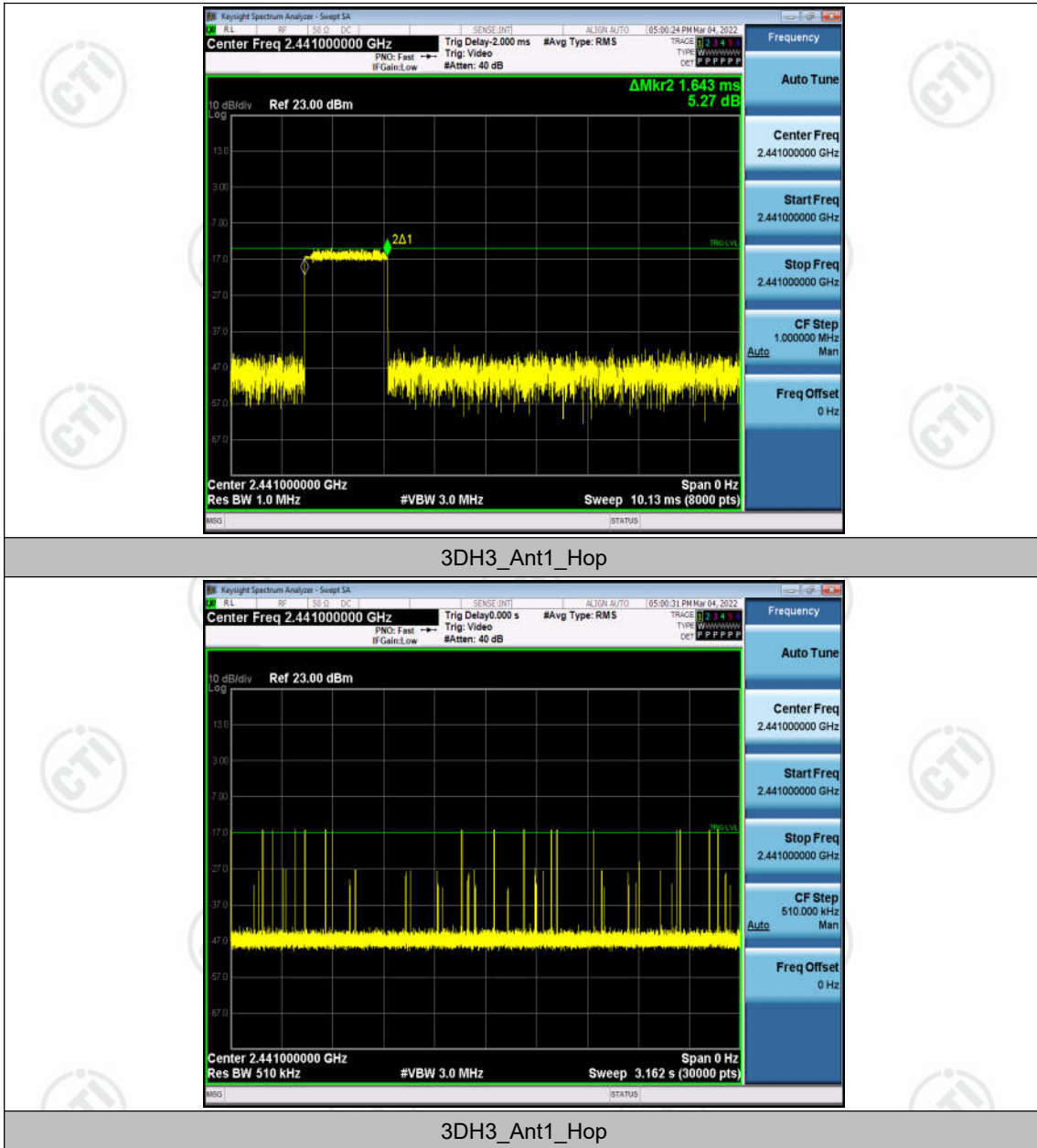
DH5_Ant1_Hop

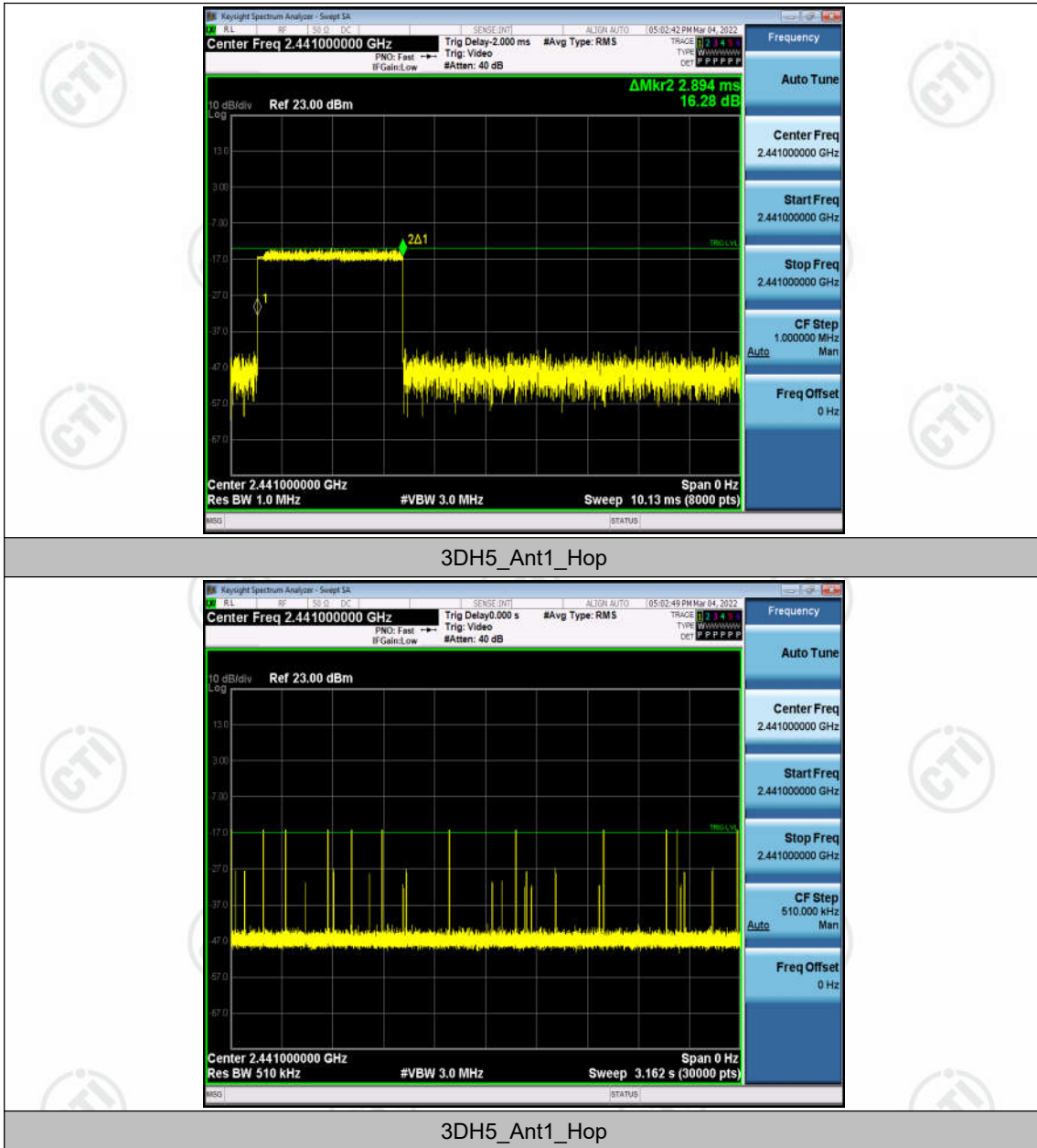








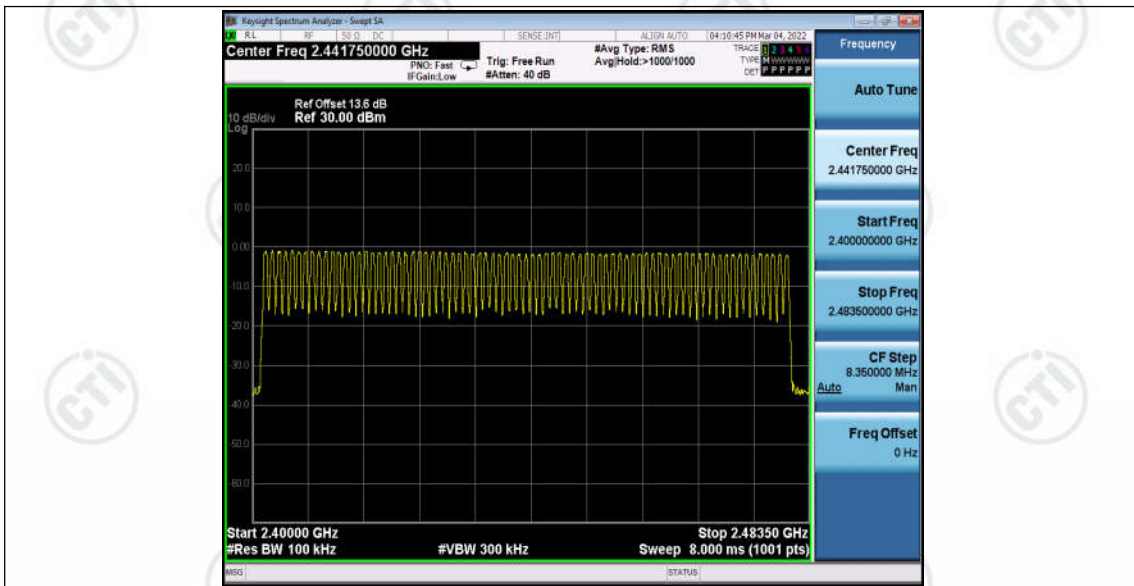




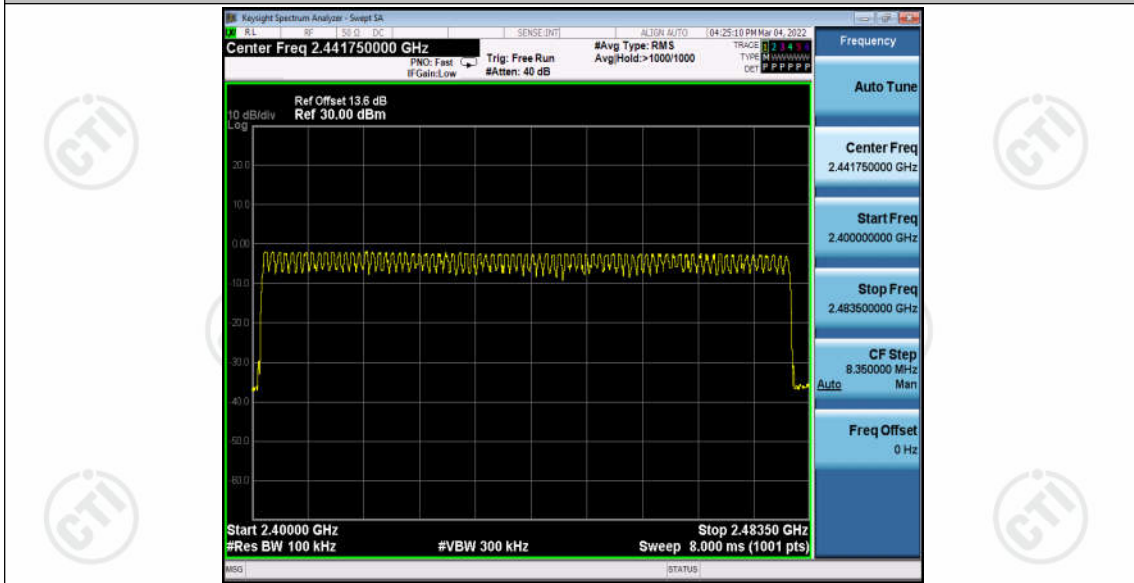
AppendixF: Number of hopping channels**Test Result**

TestMode	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

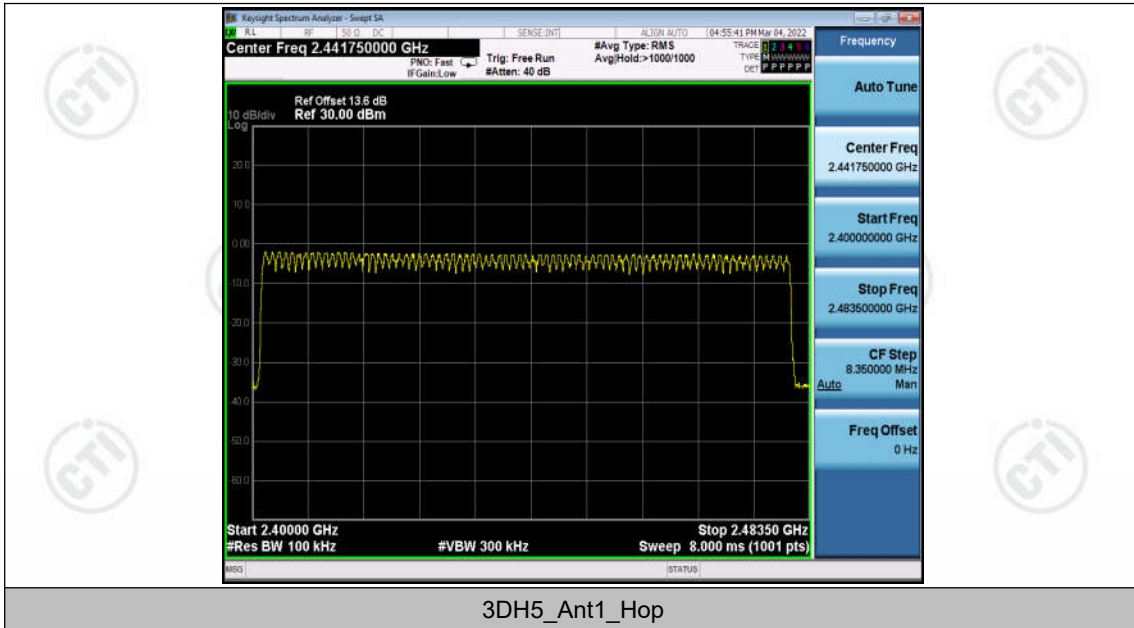
Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



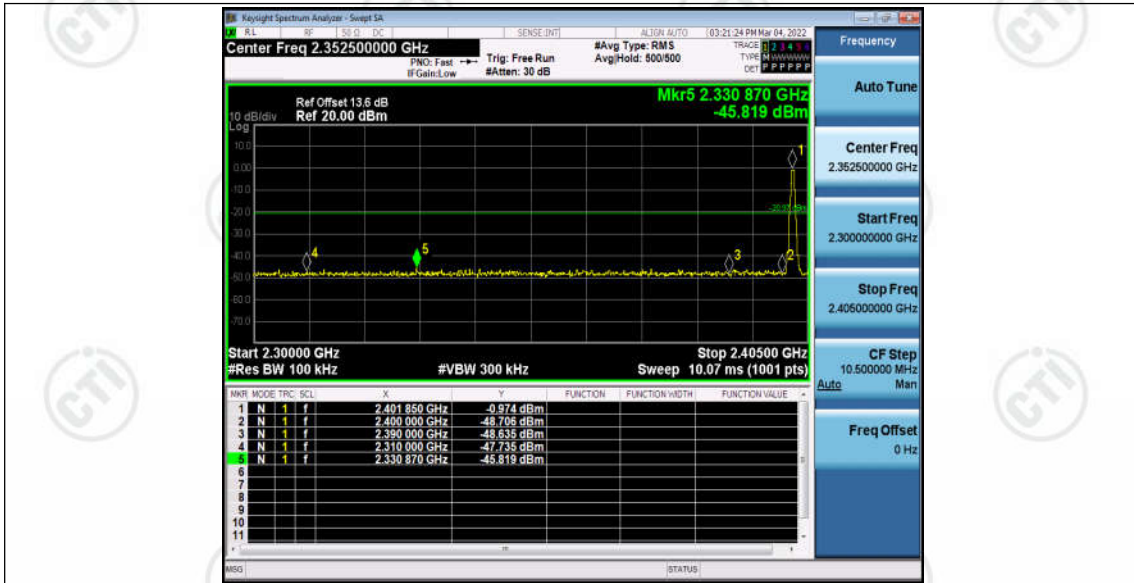
3DH5_Ant1_Hop

AppendixG:Band edge measurements

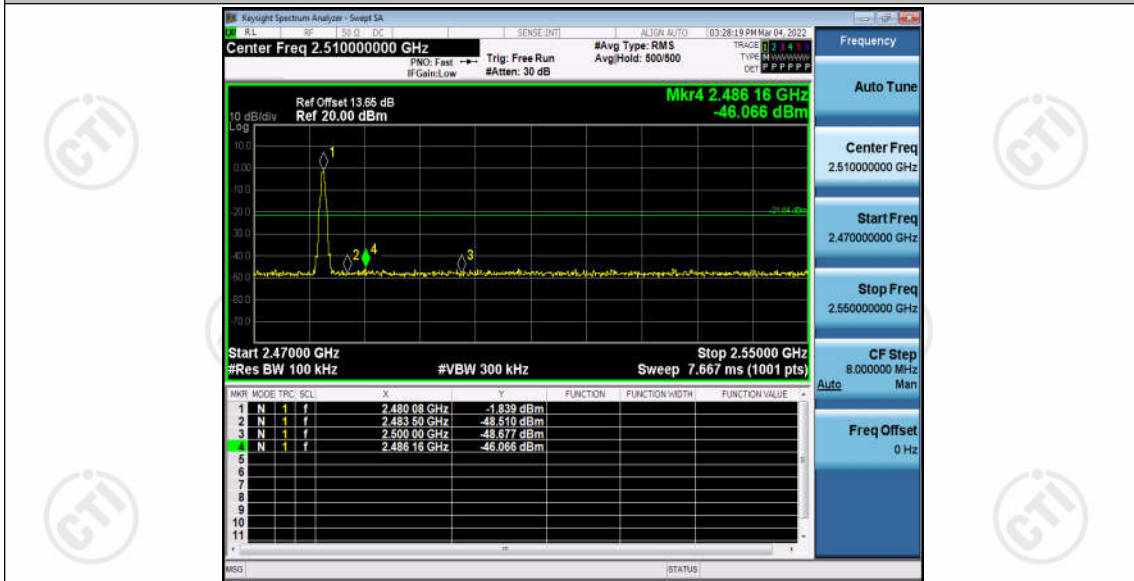
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.97	-45.82	<=-20.97	PASS
		High	2480	-1.84	-46.07	<=-21.84	PASS
		Low	Hop_2402	-1.10	-45.15	<=-21.1	PASS
		High	Hop_2480	-1.63	-44.97	<=-21.63	PASS
2DH5	Ant1	Low	2402	-2.18	-45.05	<=-22.18	PASS
		High	2480	-2.89	-45.64	<=-22.89	PASS
		Low	Hop_2402	-2.12	-44.82	<=-22.12	PASS
		High	Hop_2480	-2.65	-44.87	<=-22.65	PASS
3DH5	Ant1	Low	2402	-2.16	-44.93	<=-22.16	PASS
		High	2480	-2.88	-45.6	<=-22.88	PASS
		Low	Hop_2402	-2.28	-44.5	<=-22.28	PASS
		High	Hop_2480	-2.66	-44.5	<=-22.66	PASS

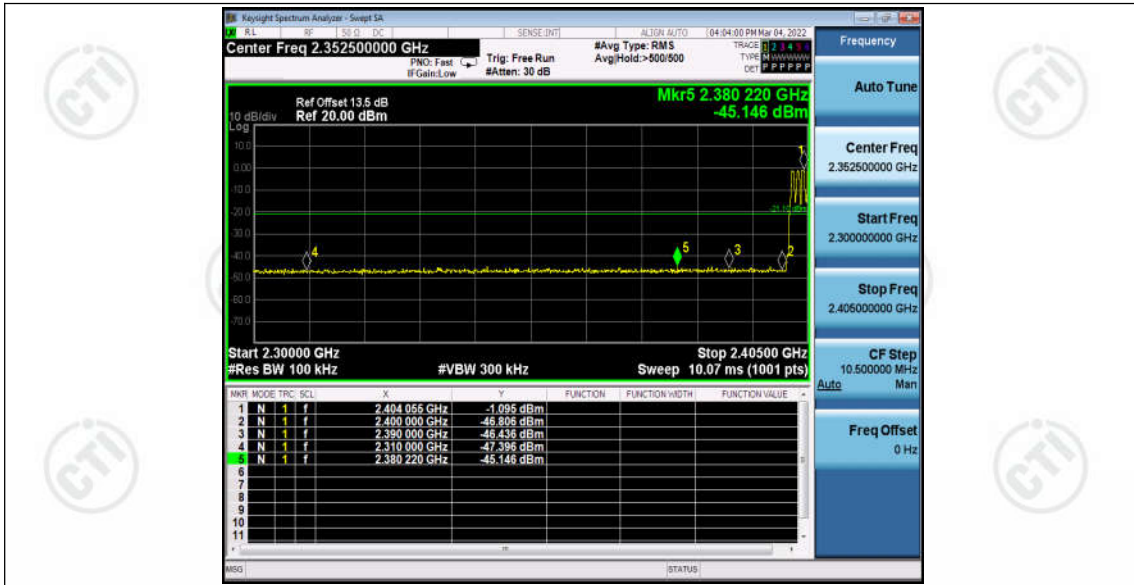
Test Graphs



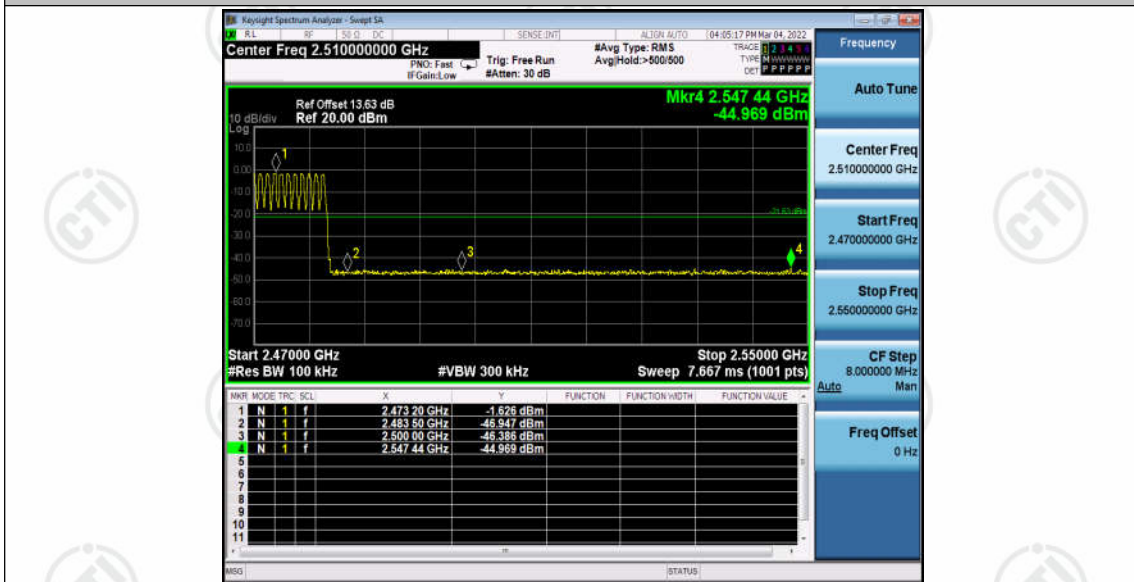
DH5_Ant1_Low_2402



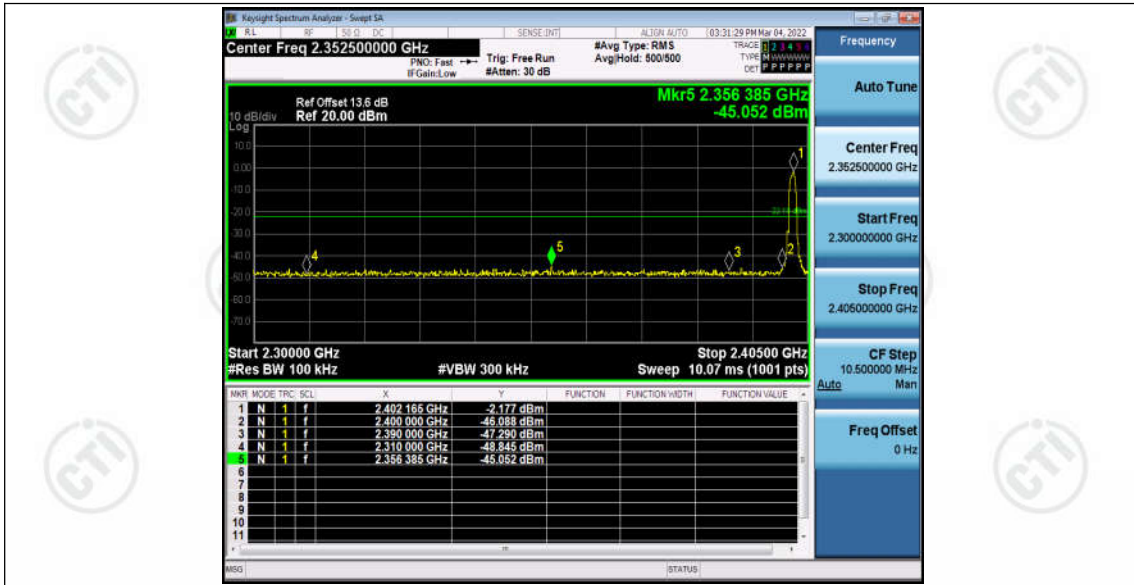
DH5_Ant1_High_2480



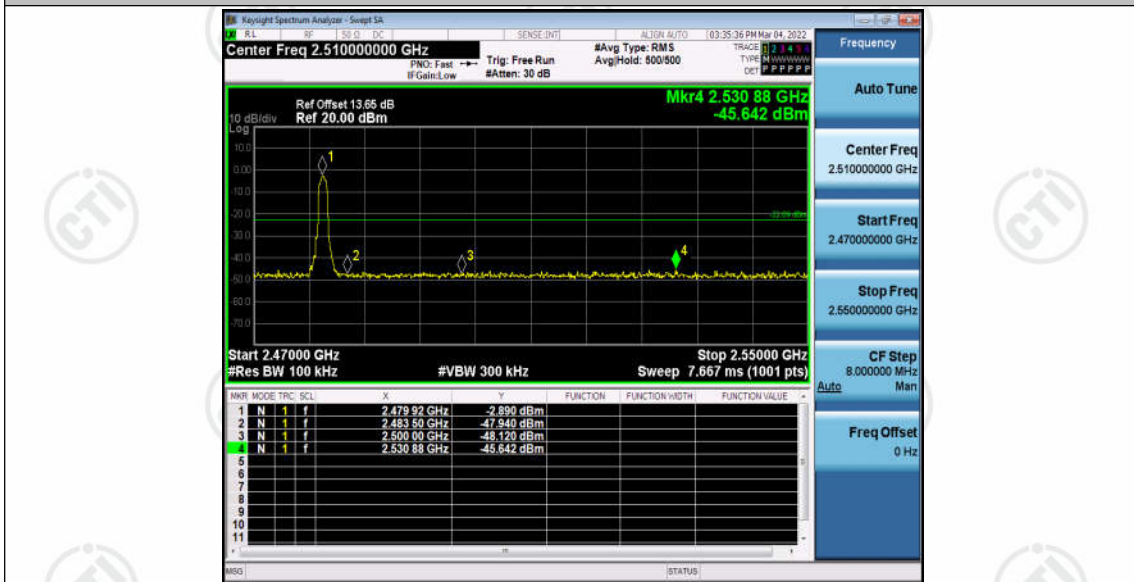
DH5_Ant1_Low_Hop_2402



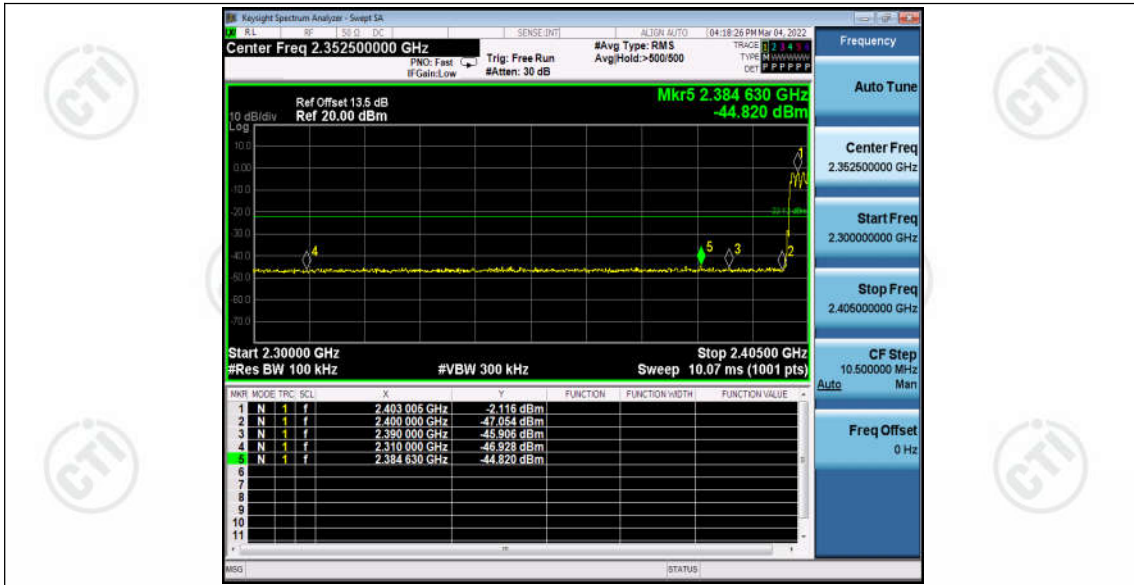
DH5_Ant1_High_Hop_2480



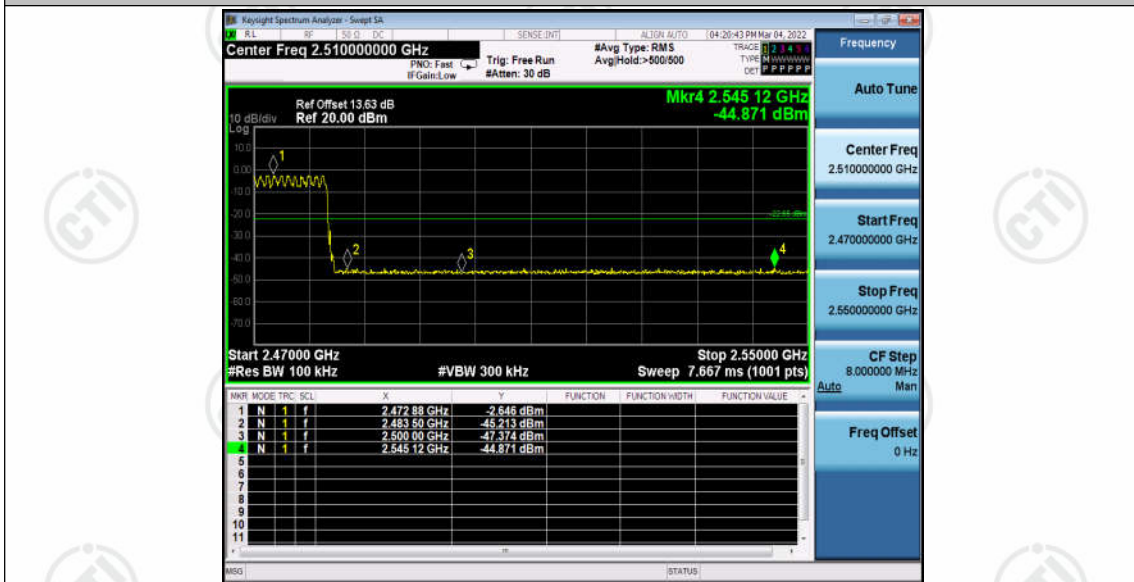
2DH5_Ant1_Low_2402



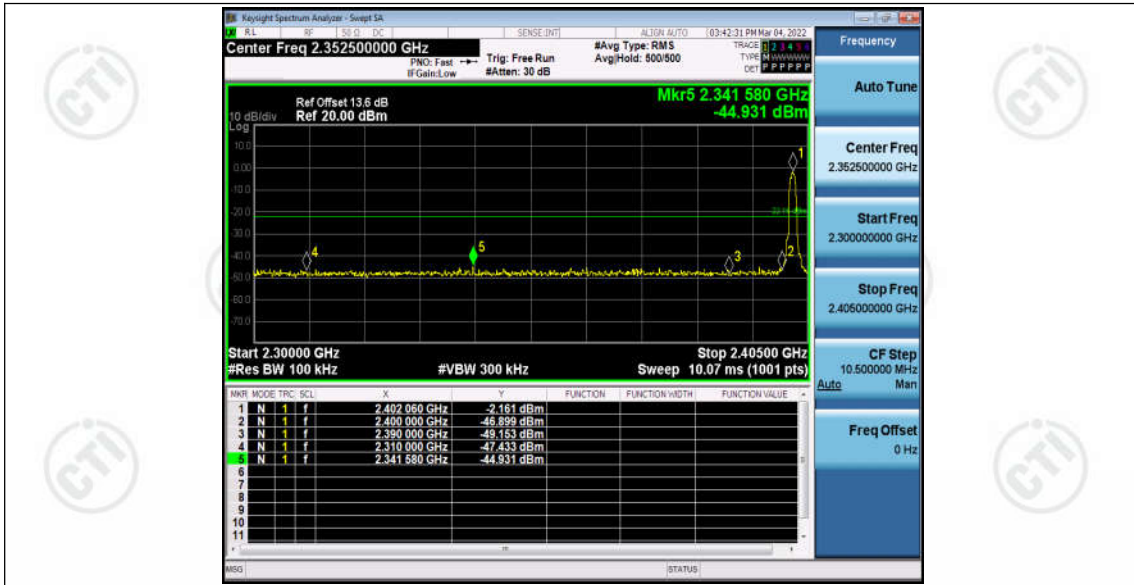
2DH5_Ant1_High_2480



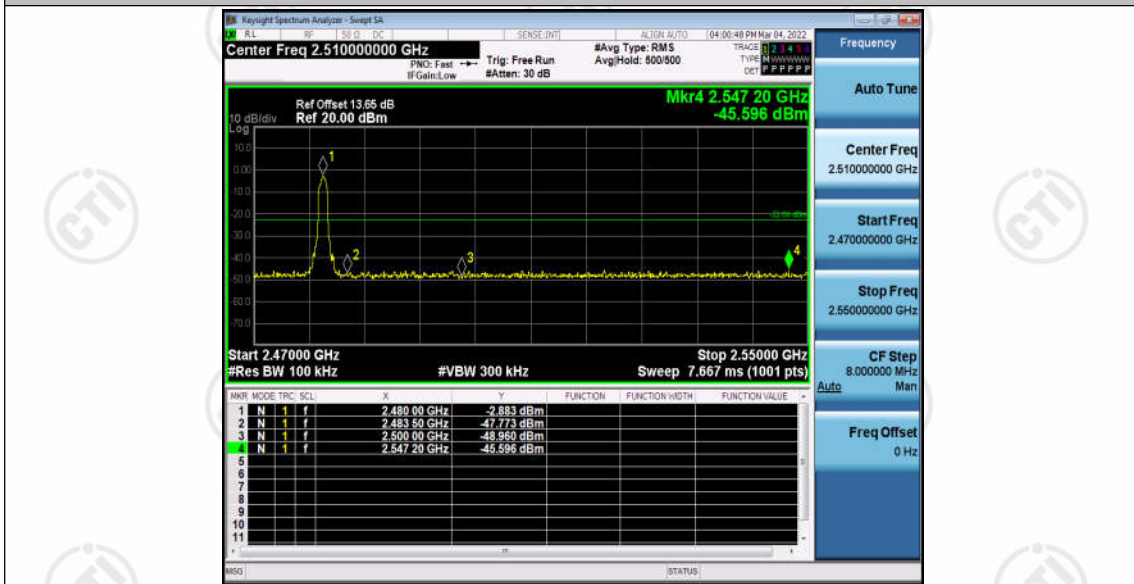
2DH5_Ant1_Low_Hop_2402



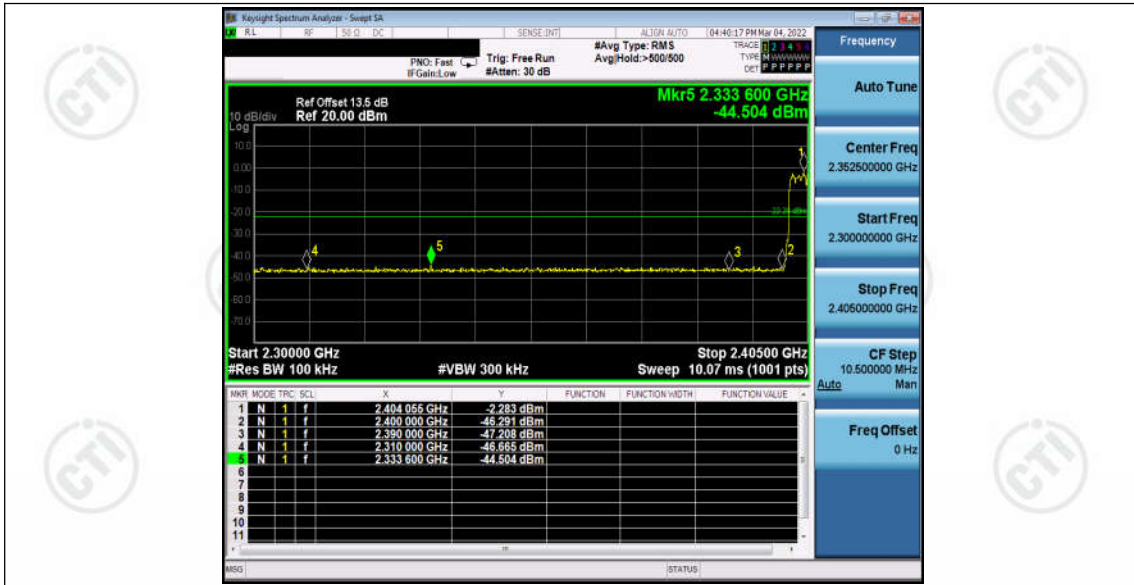
2DH5_Ant1_High_Hop_2480



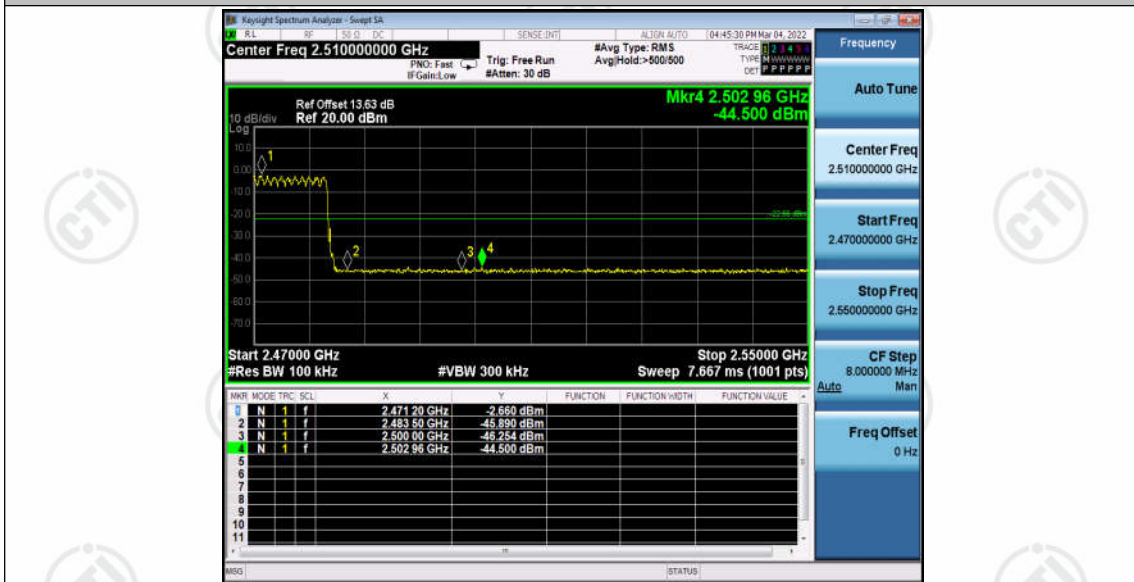
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



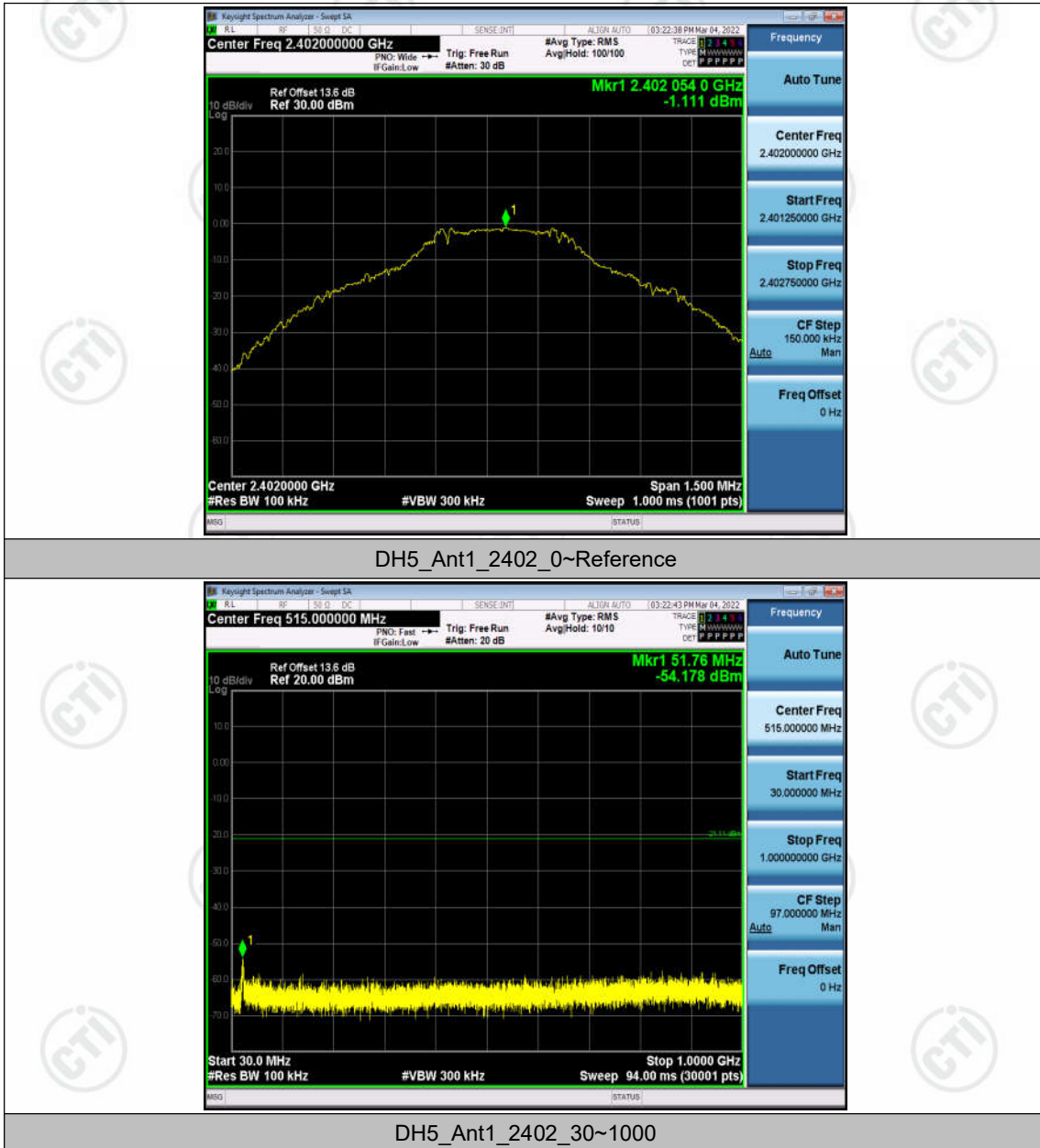
3DH5_Ant1_High_Hop_2480

AppendixH:Conducted SpuriousEmission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.11	-1.11	---	PASS
			30~1000	30~1000	-54.178	<=-21.111	PASS
			1000~26500	1000~26500	-49.787	<=-21.111	PASS
		2441	Reference	-1.82	-1.82	---	PASS
			30~1000	30~1000	-54.057	<=-21.82	PASS
			1000~26500	1000~26500	-49.366	<=-21.82	PASS
		2480	Reference	-1.86	-1.86	---	PASS
			30~1000	30~1000	-54.857	<=-21.855	PASS
			1000~26500	1000~26500	-49.514	<=-21.855	PASS
2DH5	Ant1	2402	Reference	-2.49	-2.49	---	PASS
			30~1000	30~1000	-54.97	<=-22.492	PASS
			1000~26500	1000~26500	-49.253	<=-22.492	PASS
		2441	Reference	-3.19	-3.19	---	PASS
			30~1000	30~1000	-54.513	<=-23.187	PASS
			1000~26500	1000~26500	-48.048	<=-23.187	PASS
		2480	Reference	-3.39	-3.39	---	PASS
			30~1000	30~1000	-54.13	<=-23.385	PASS
			1000~26500	1000~26500	-49.448	<=-23.385	PASS
3DH5	Ant1	2402	Reference	-2.31	-2.31	---	PASS
			30~1000	30~1000	-53.498	<=-22.313	PASS
			1000~26500	1000~26500	-49.461	<=-22.313	PASS
		2441	Reference	-2.78	-2.78	---	PASS
			30~1000	30~1000	-56.362	<=-22.782	PASS
			1000~26500	1000~26500	-48.947	<=-22.782	PASS
		2480	Reference	-3.11	-3.11	---	PASS
			30~1000	30~1000	-53.973	<=-23.111	PASS
			1000~26500	1000~26500	-49.475	<=-23.111	PASS

Test Graphs

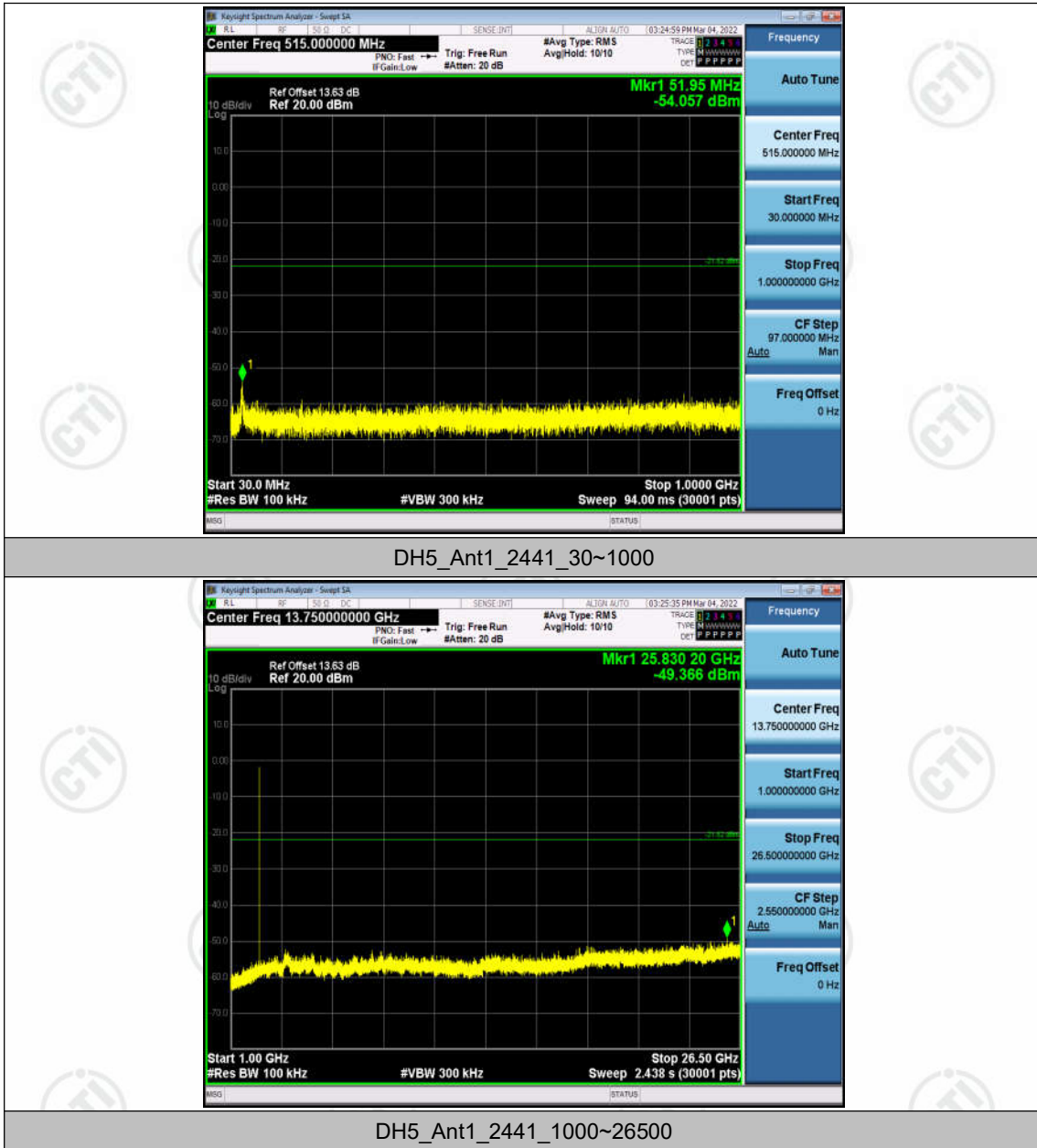


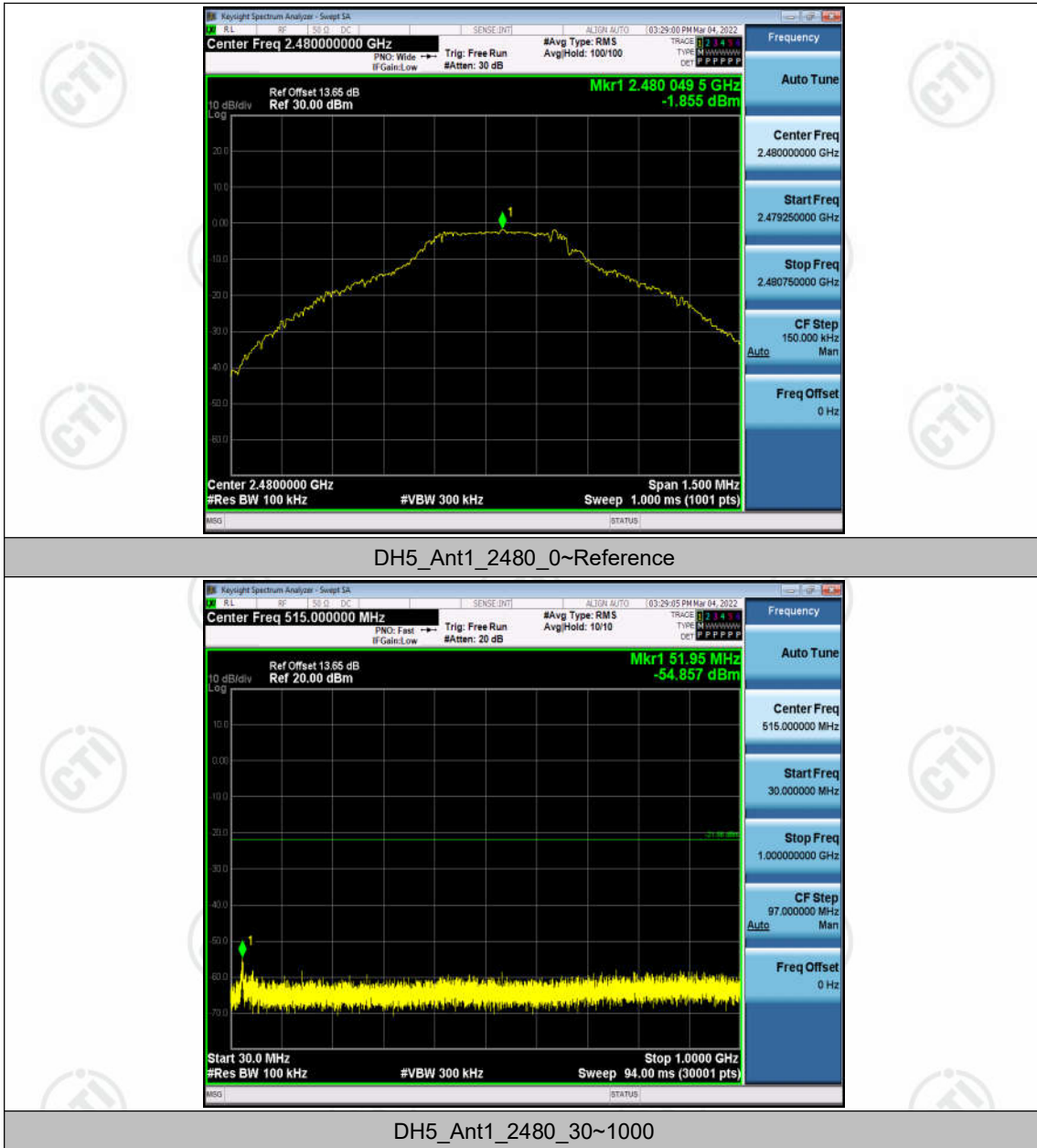


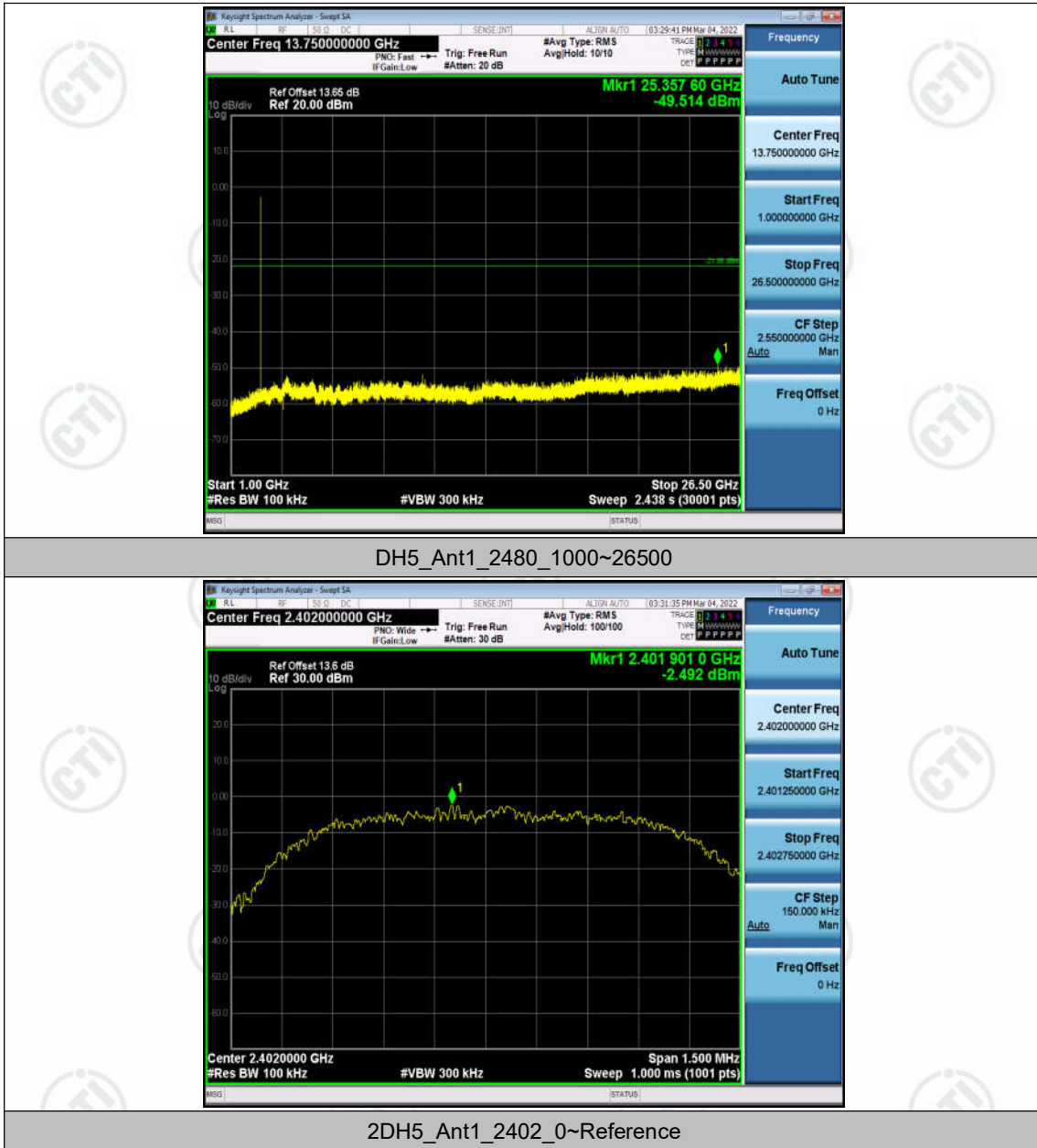
DH5_Ant1_2402_1000~26500

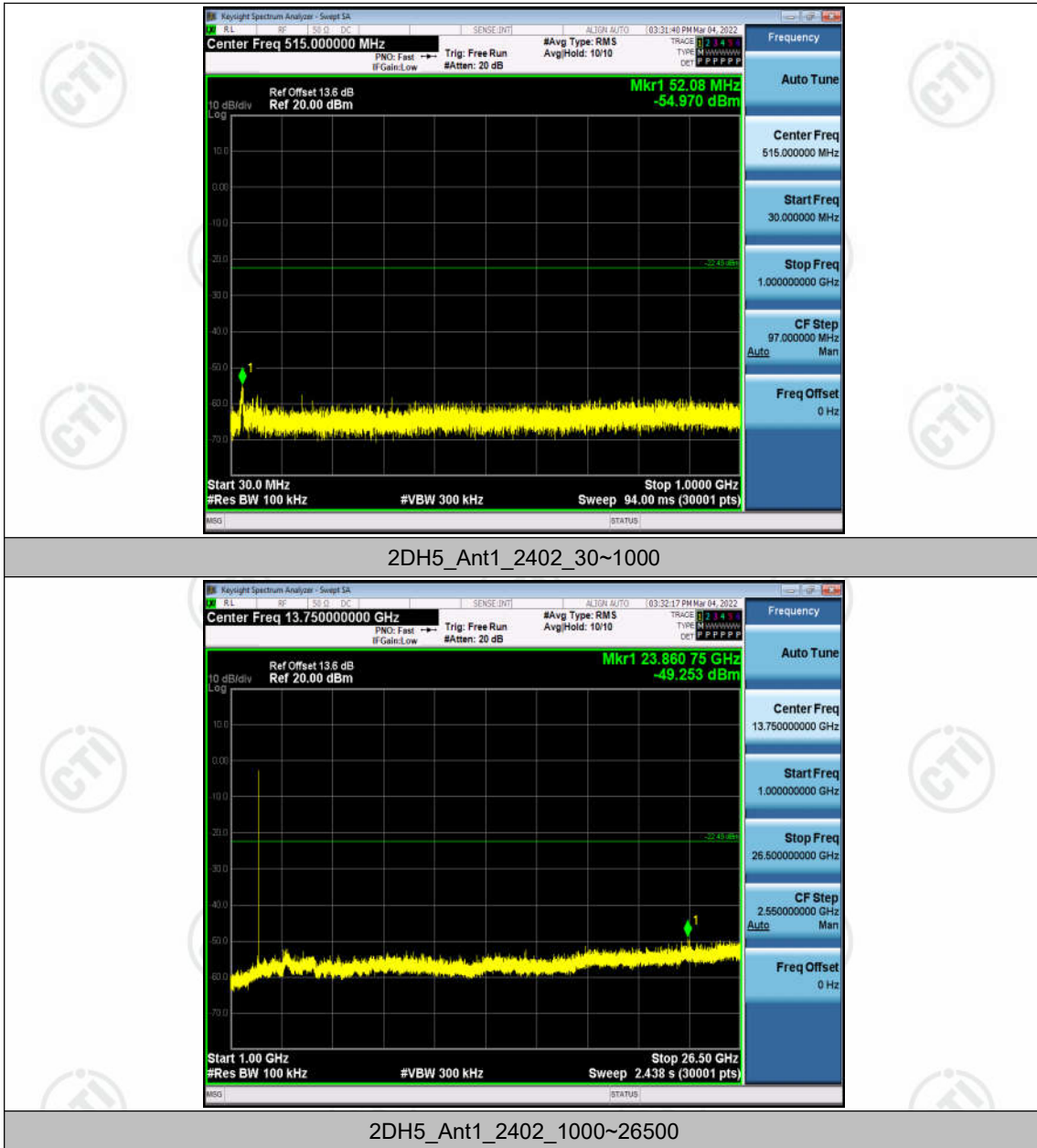


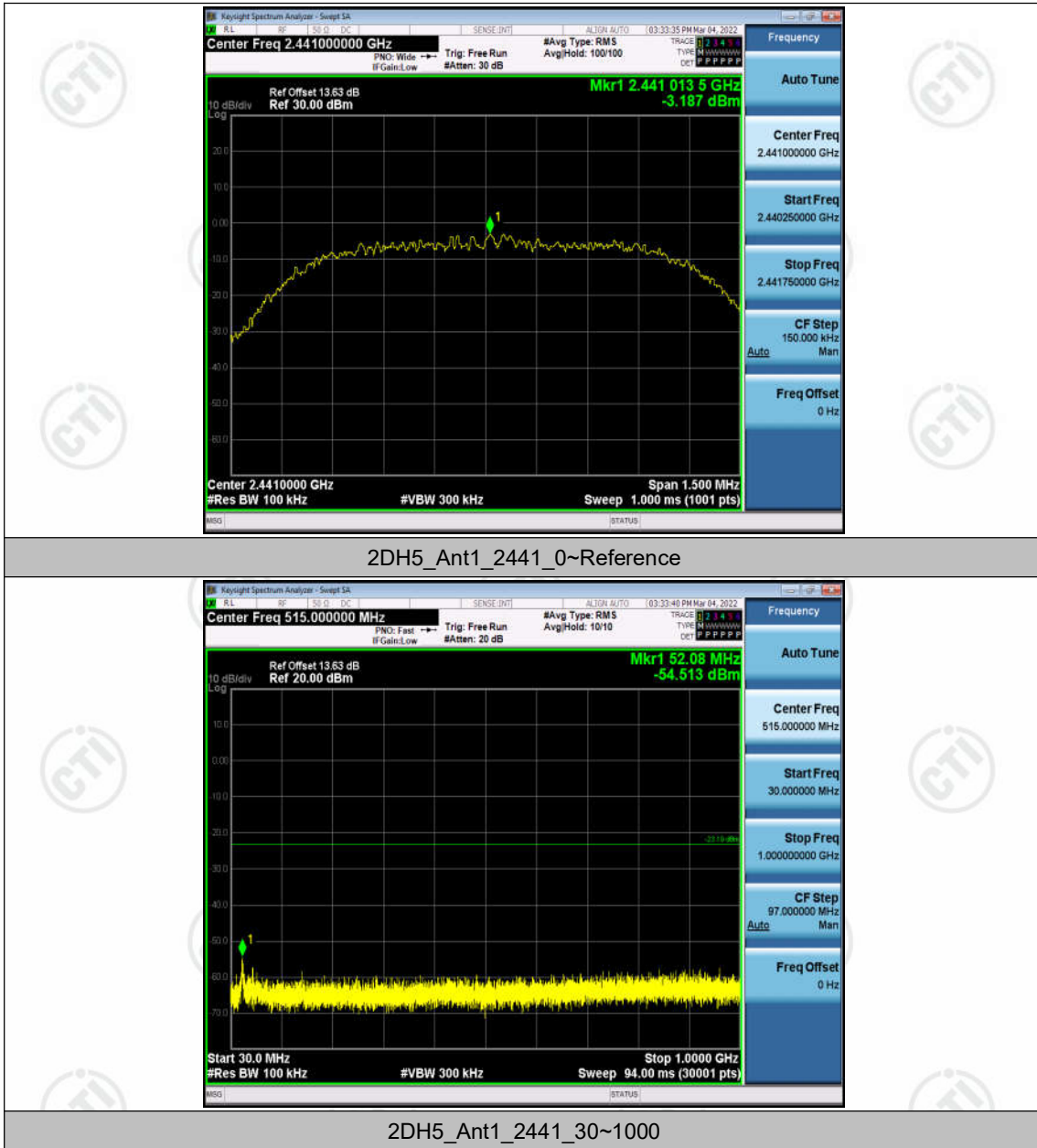
DH5_Ant1_2441_0~Reference





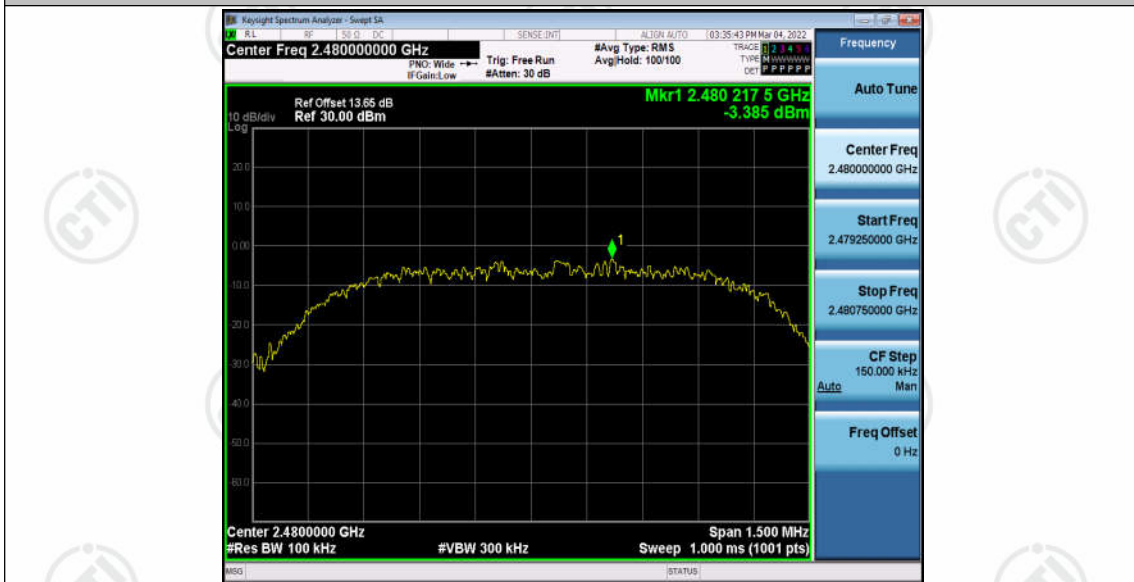




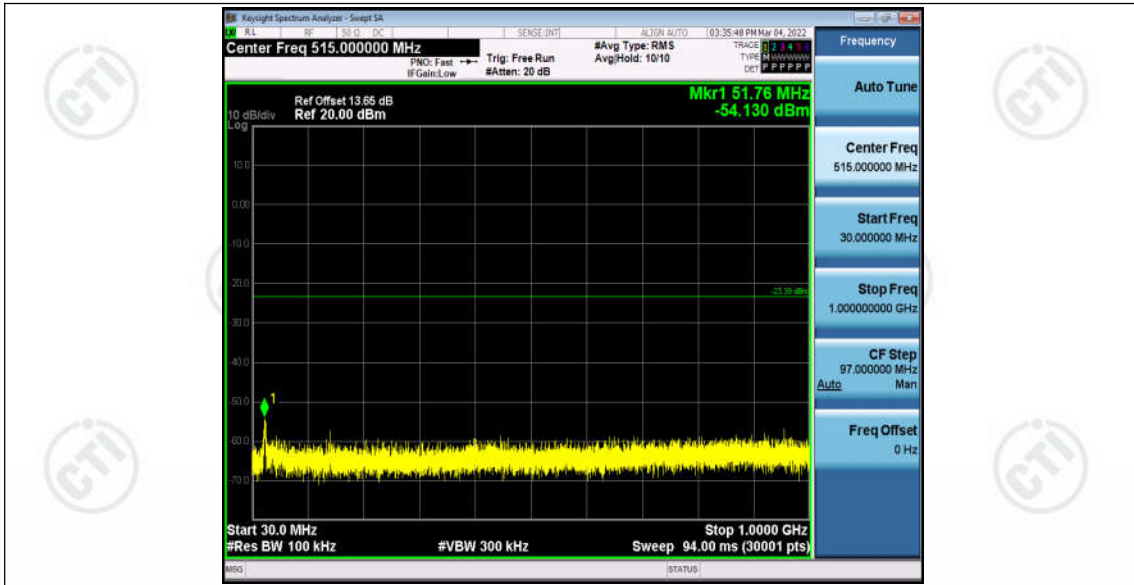




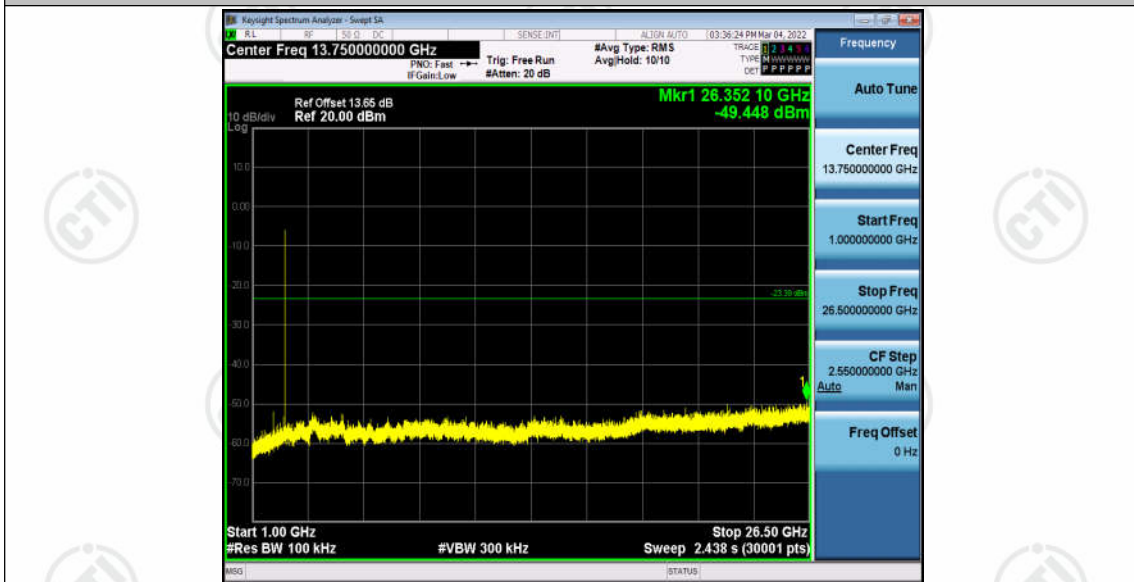
2DH5_Ant1_2441_1000~26500



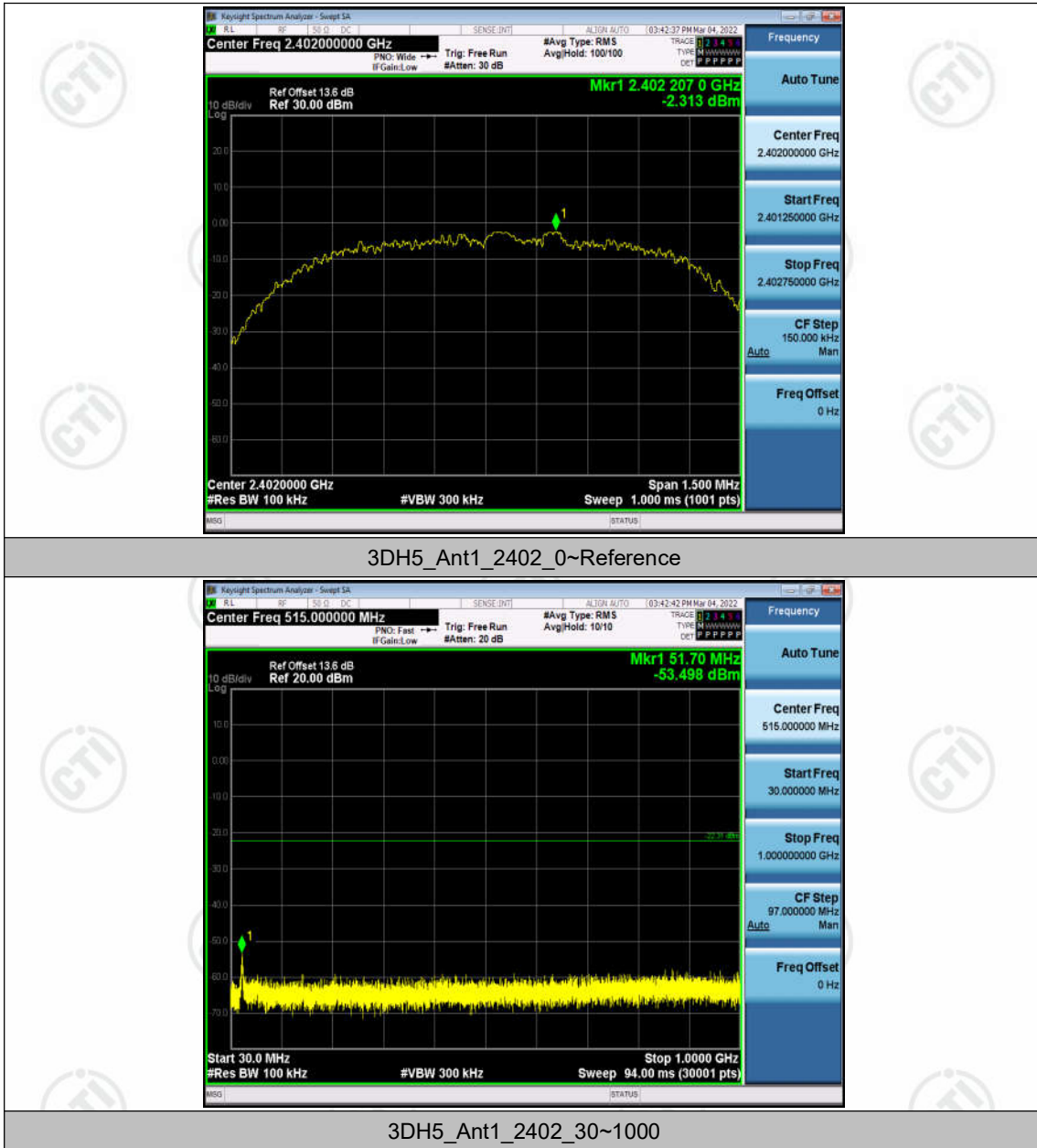
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

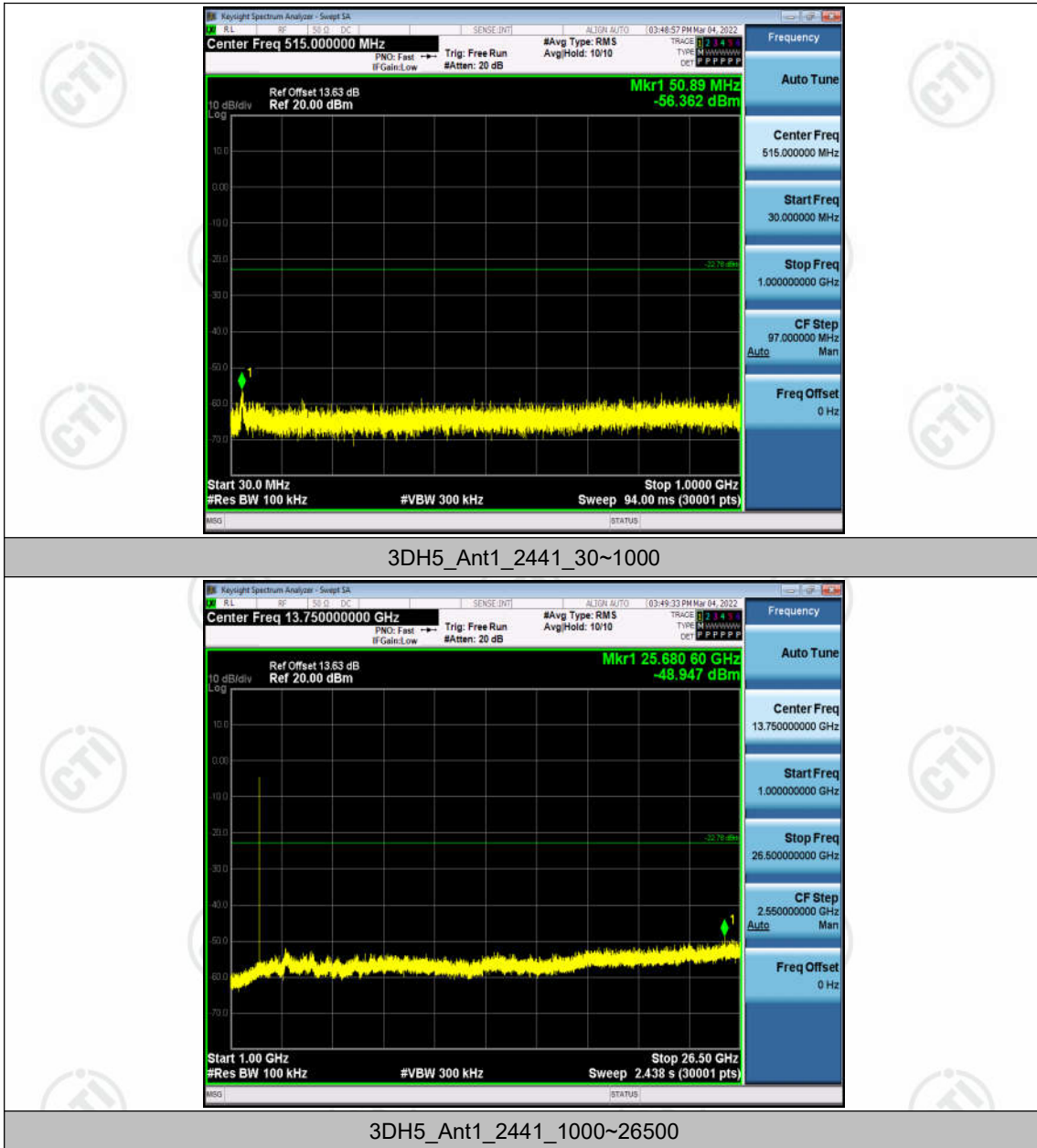


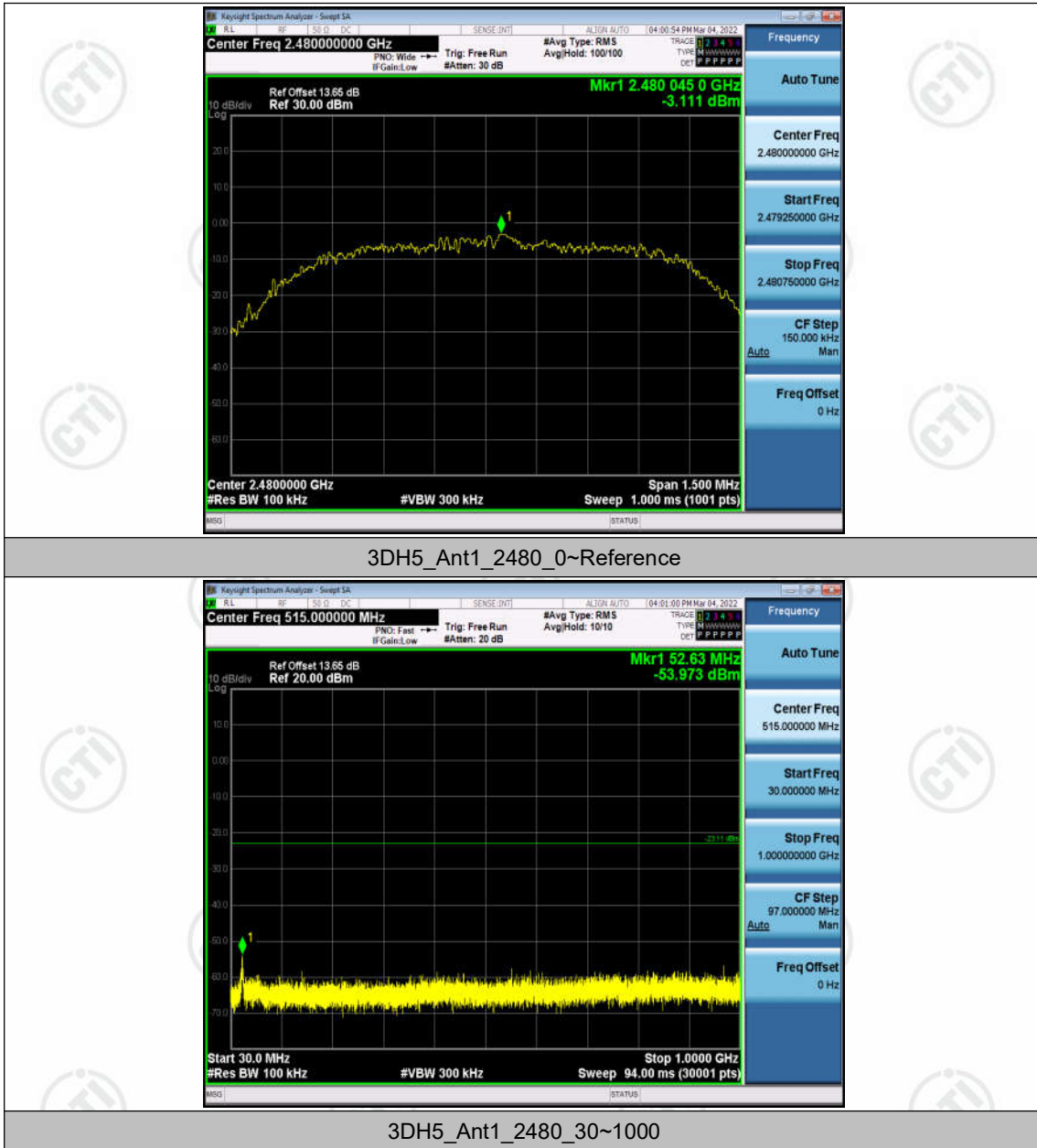


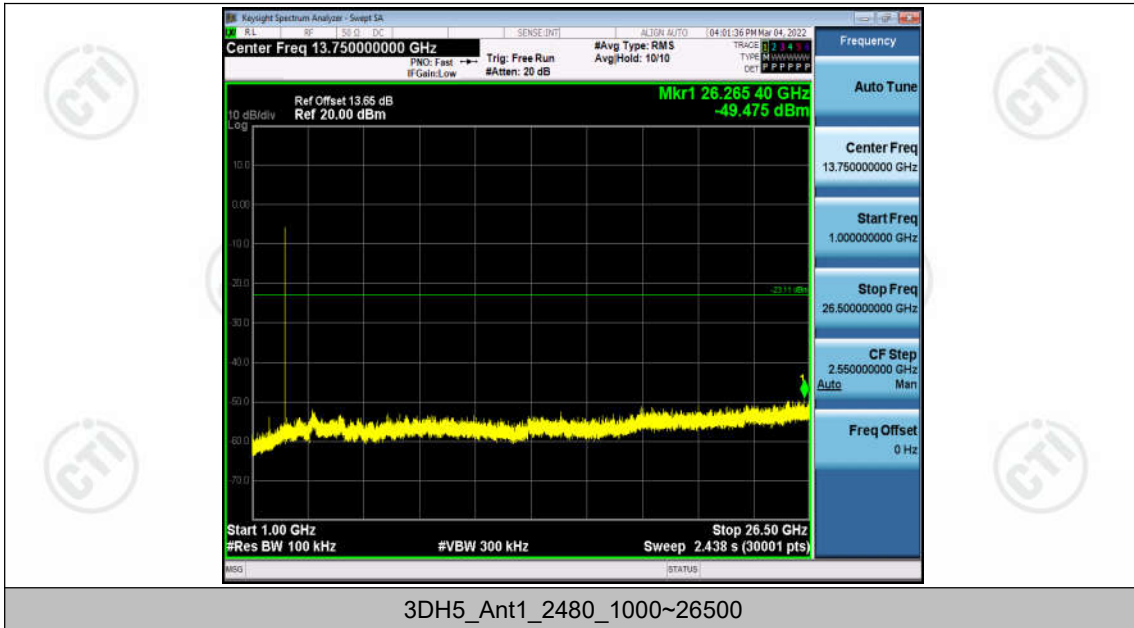
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



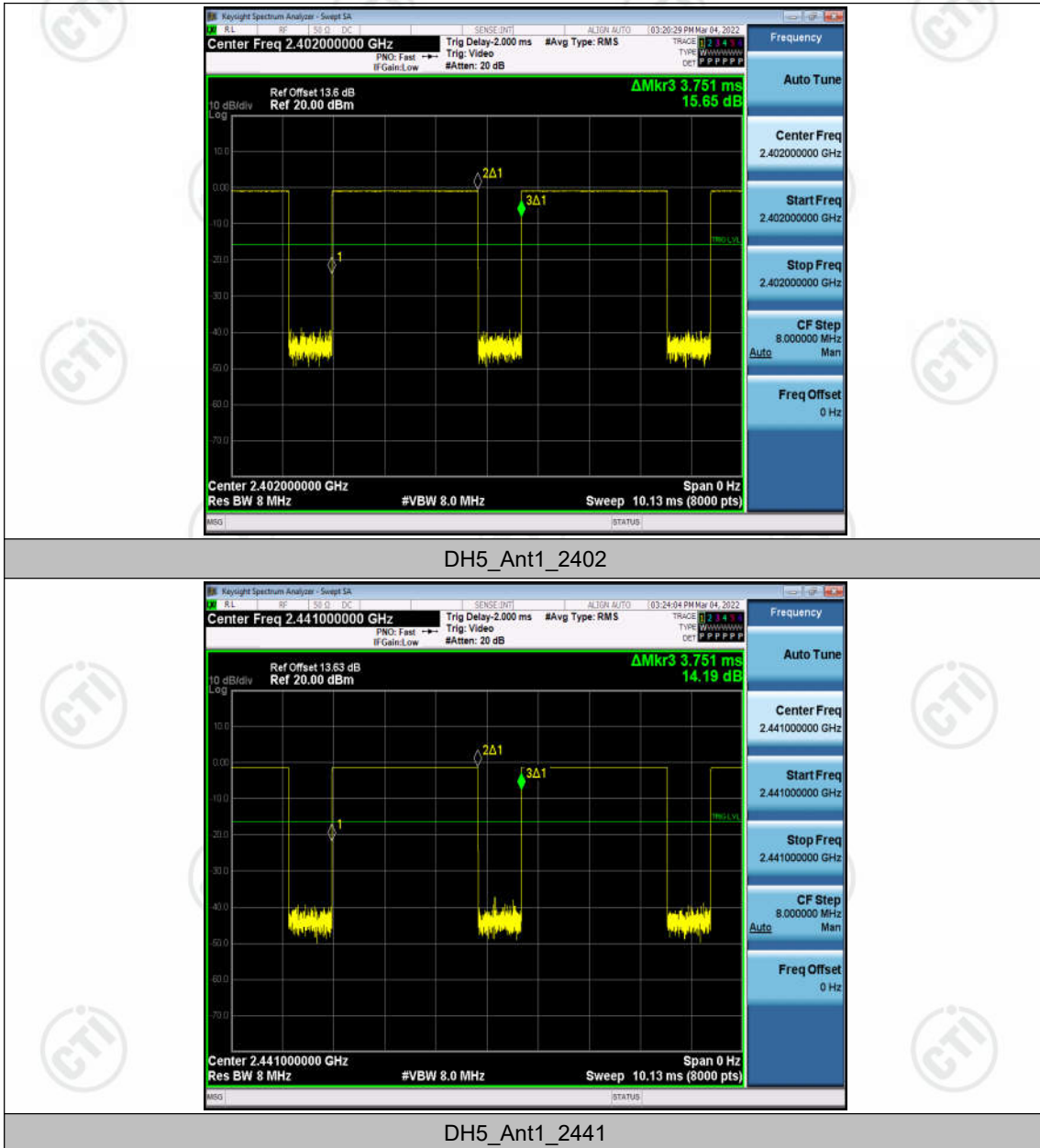


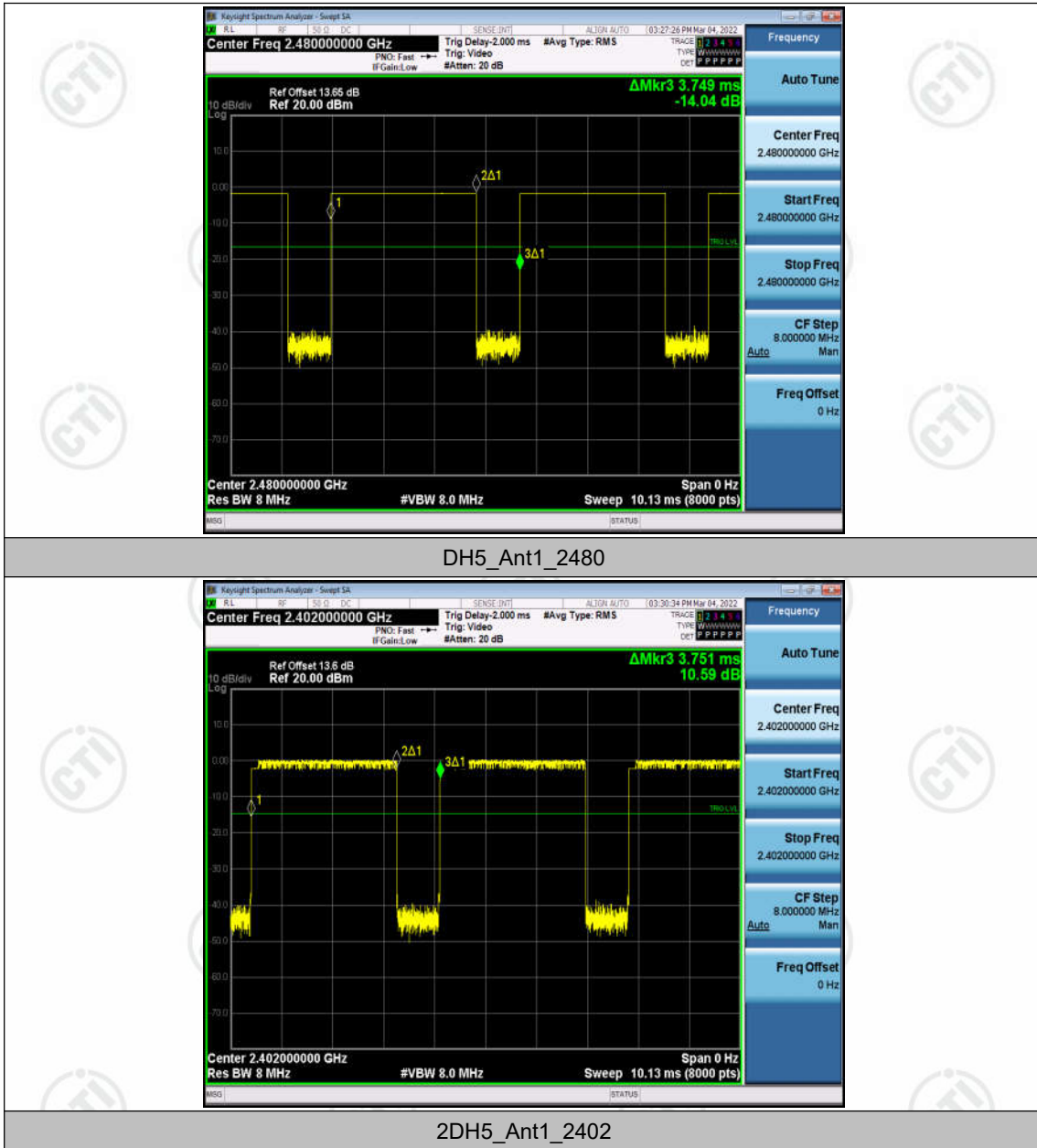


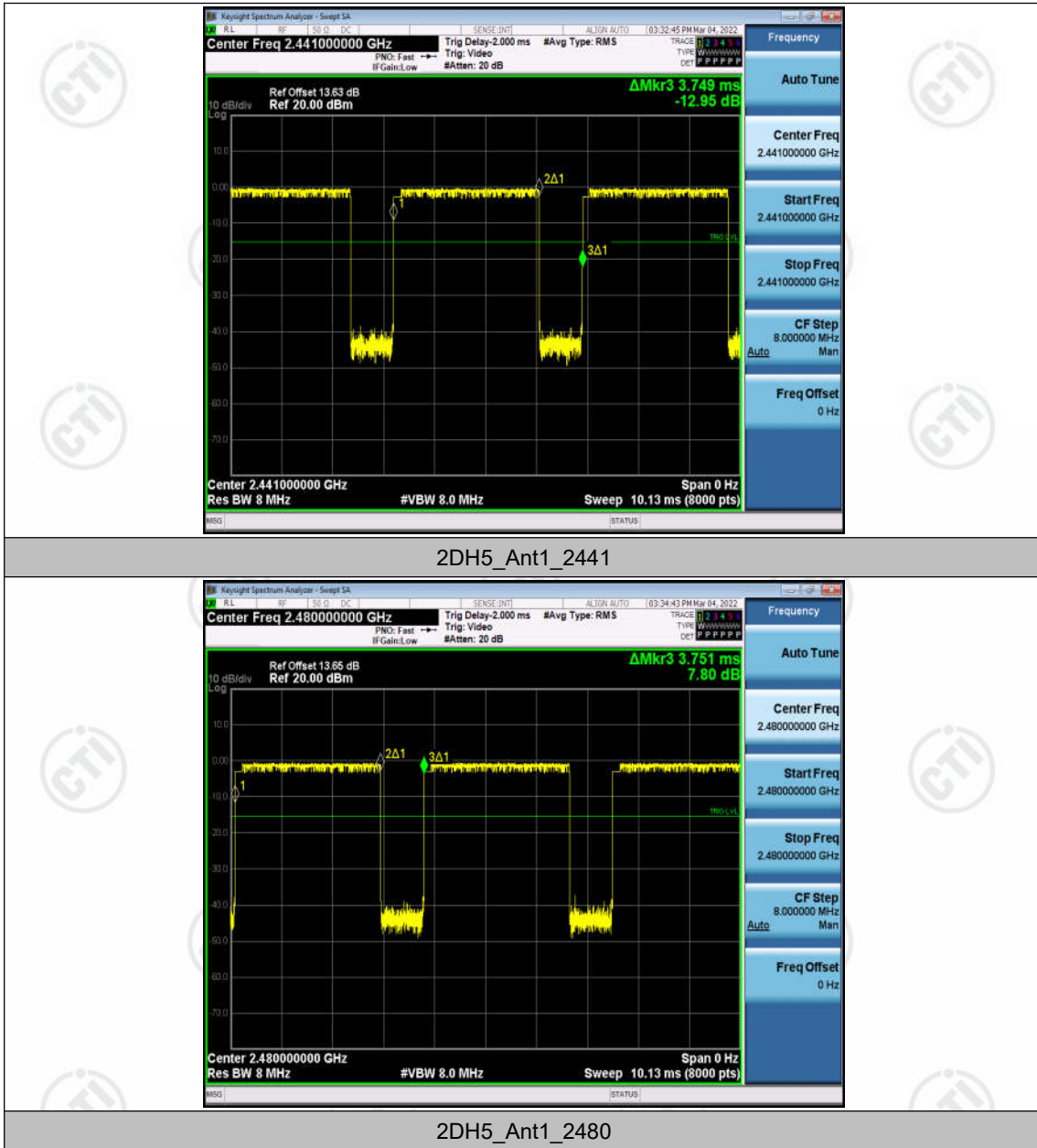
AppendixI: DutyCycle**Test Result**

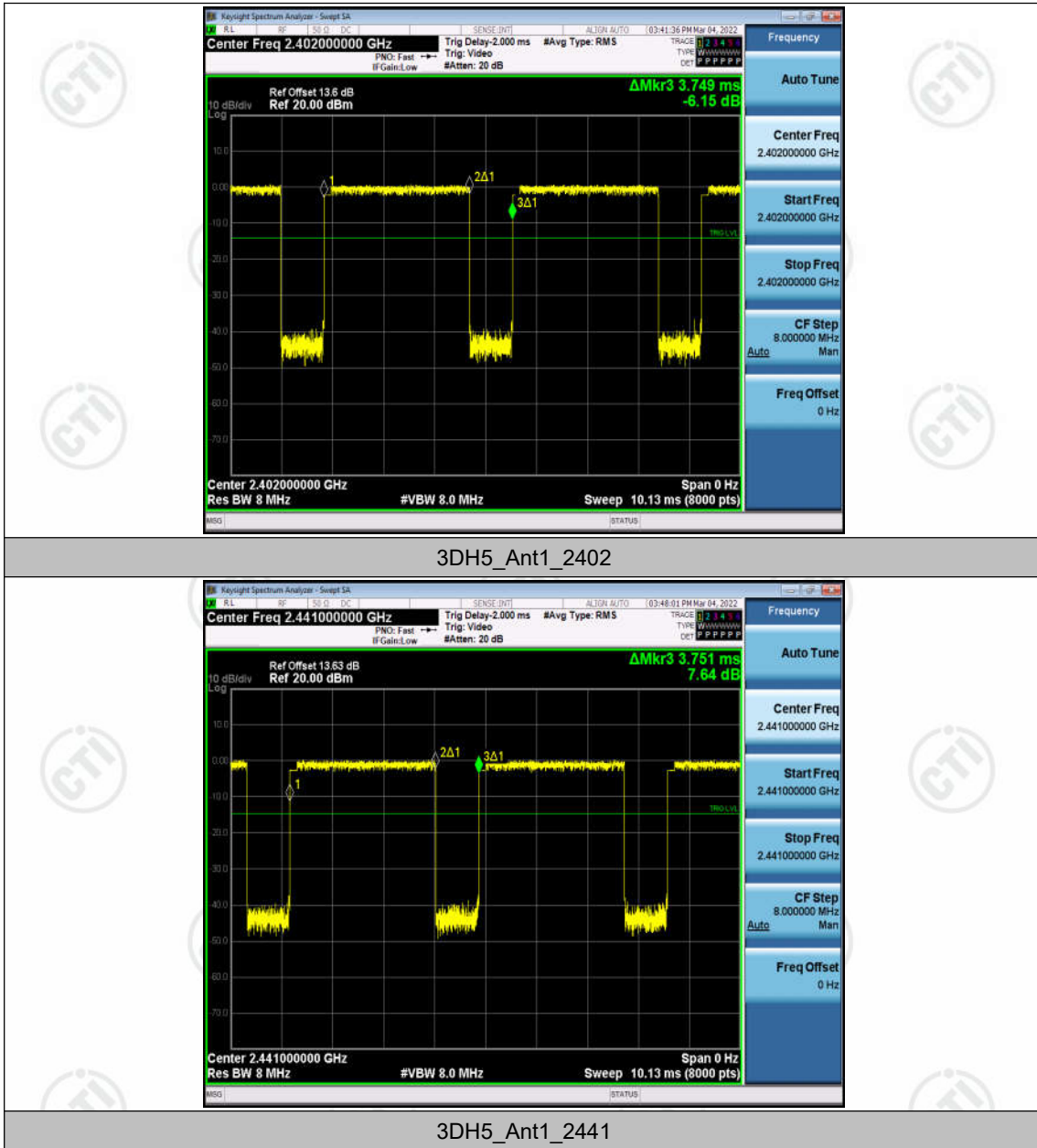
TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	---	PASS
		2441	2.89	3.75	77.07	---	PASS
		2480	2.89	3.75	77.06	---	PASS
2DH5	Ant1	2402	2.89	3.75	77.10	---	PASS
		2441	2.89	3.75	77.13	---	PASS
		2480	2.89	3.75	77.10	---	PASS
3DH5	Ant1	2402	2.89	3.75	77.16	---	PASS
		2441	2.89	3.75	77.14	---	PASS
		2480	2.89	3.75	77.14	---	PASS

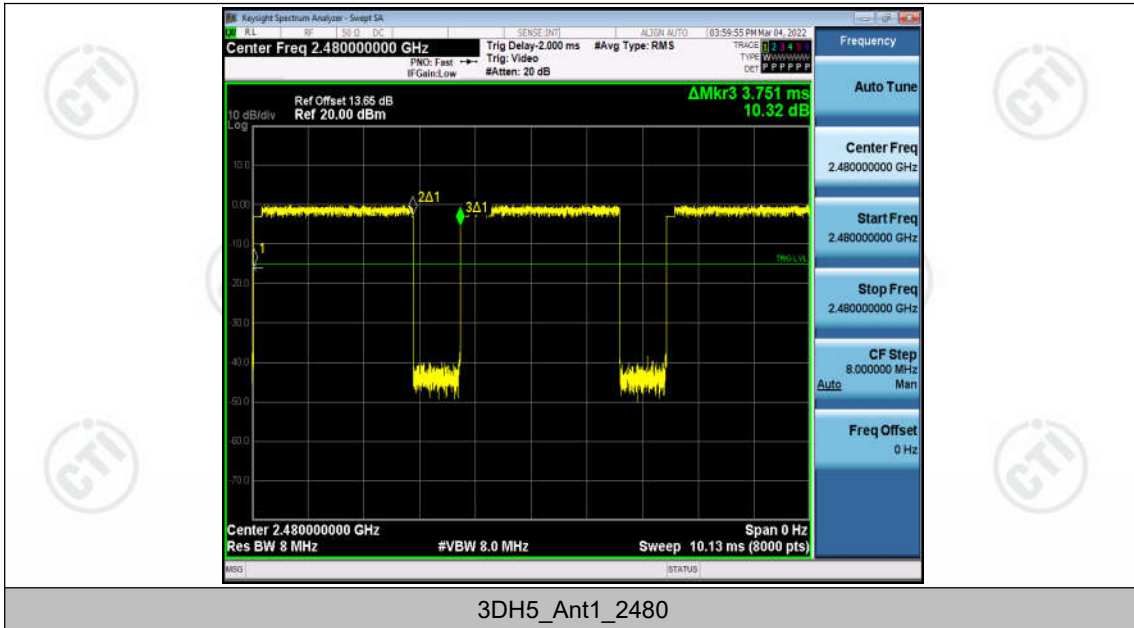
Test Graphs











*** End of Report ***