

Appendix: Bluetooth Classic

Contents

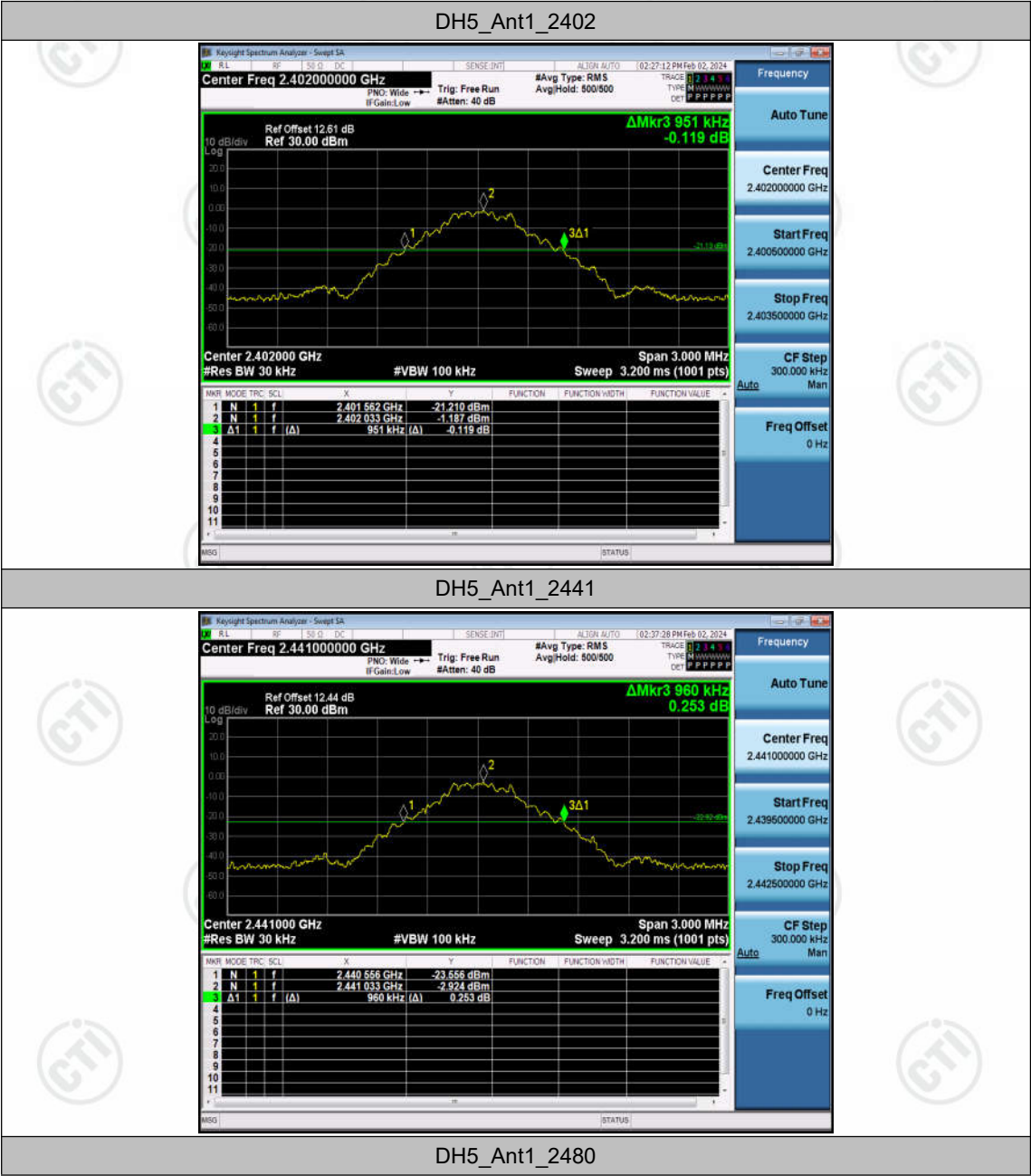
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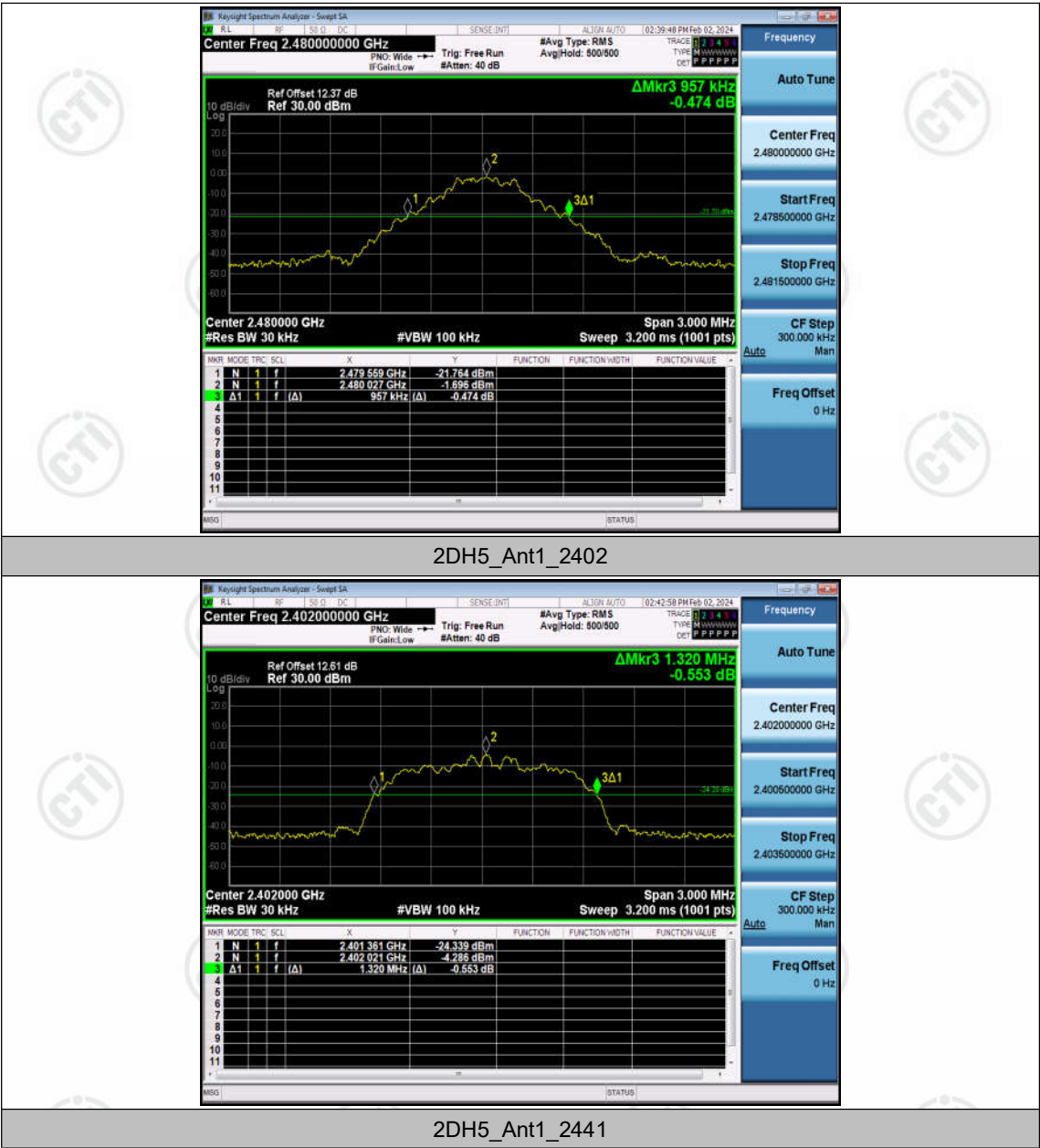
Appendix A: 20dB Emission Bandwidth

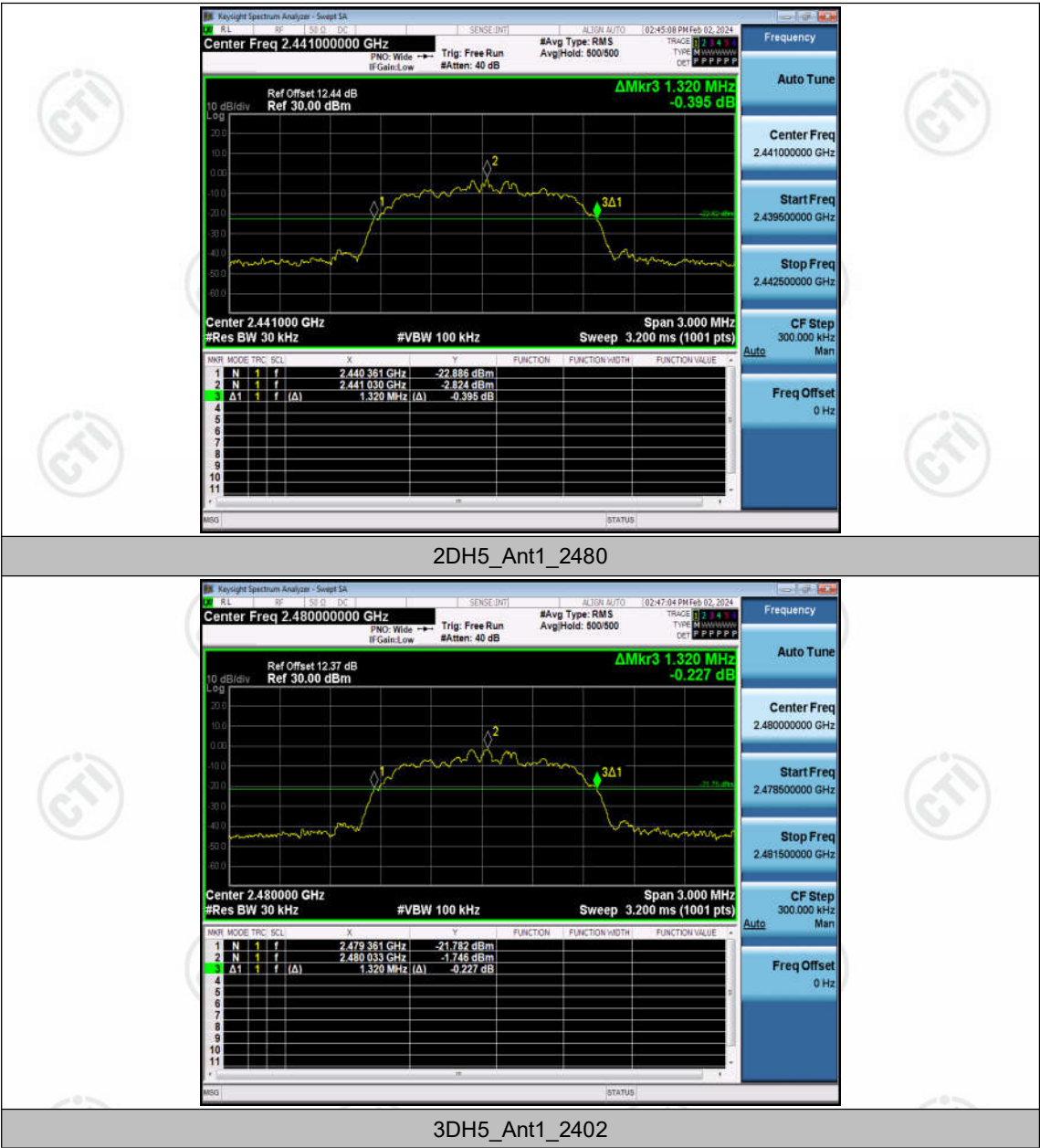
Test Result

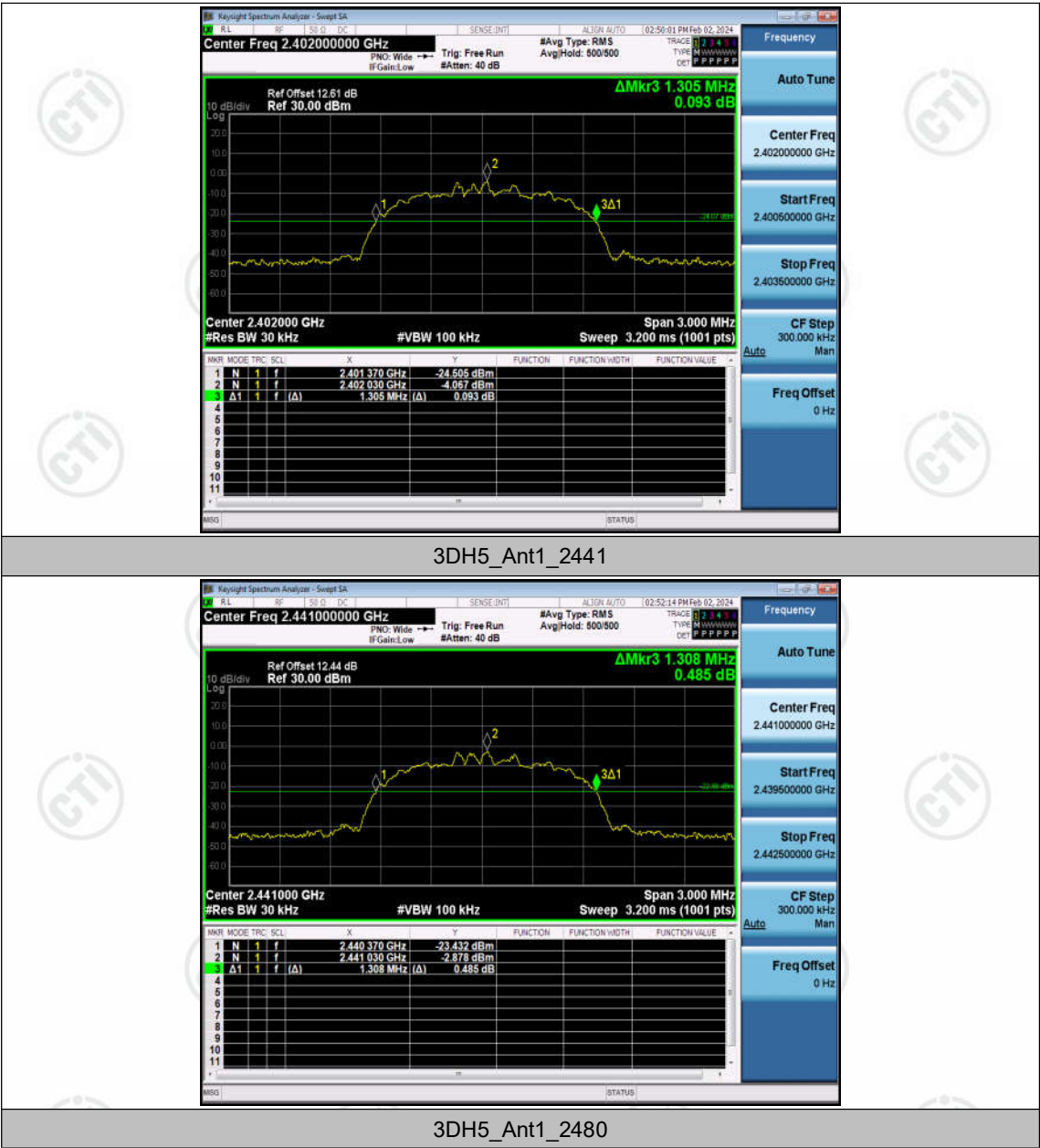
Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.562	2402.513	---	---
		2441	0.960	2440.556	2441.516	---	---
		2480	0.957	2479.559	2480.516	---	---
2DH5	Ant1	2402	1.320	2401.361	2402.681	---	---
		2441	1.320	2440.361	2441.681	---	---
		2480	1.320	2479.361	2480.681	---	---
3DH5	Ant1	2402	1.305	2401.370	2402.675	---	---
		2441	1.308	2440.370	2441.678	---	---
		2480	1.311	2479.370	2480.681	---	---

Test Graphs









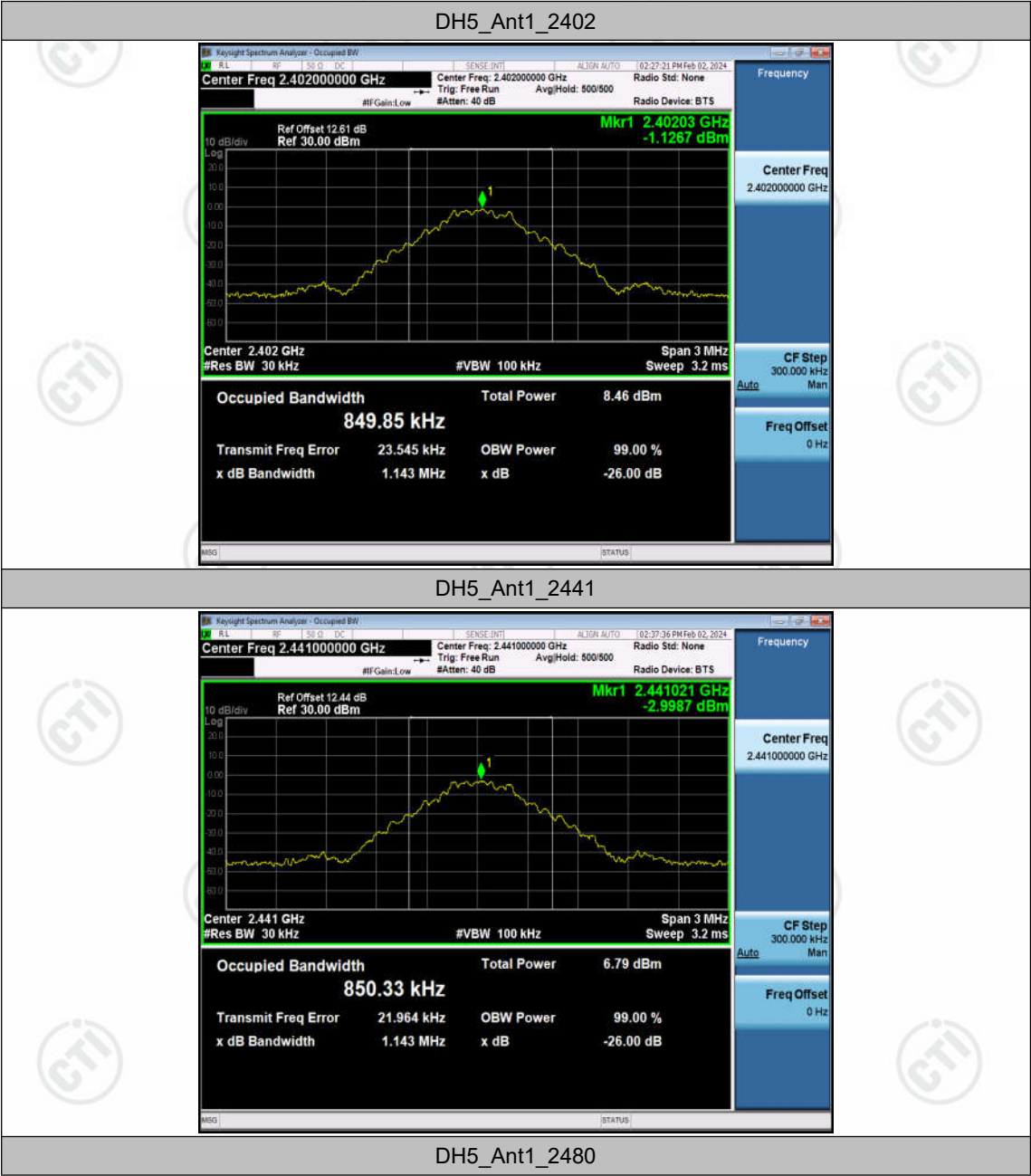


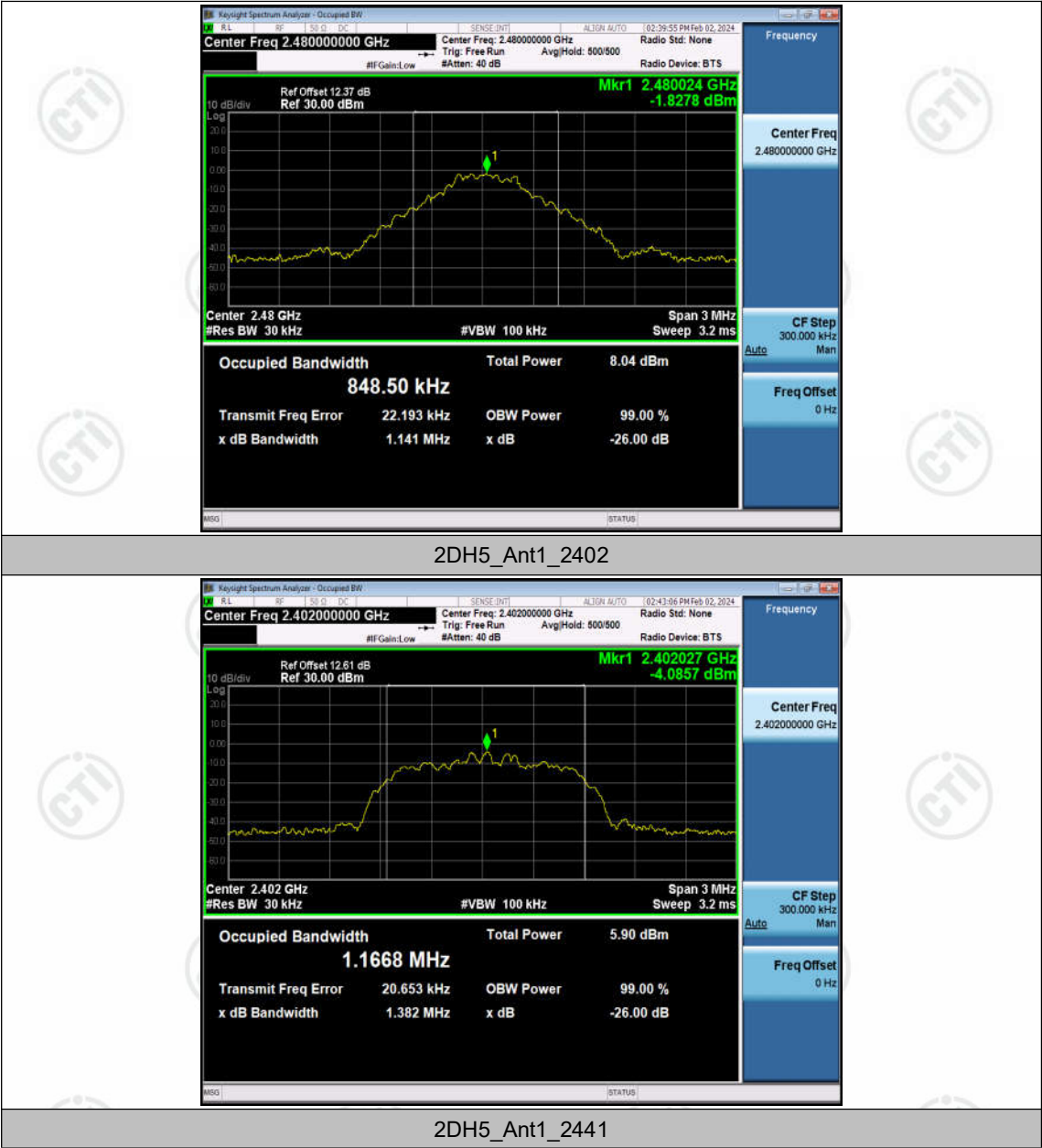
Appendix B: Occupied Channel Bandwidth

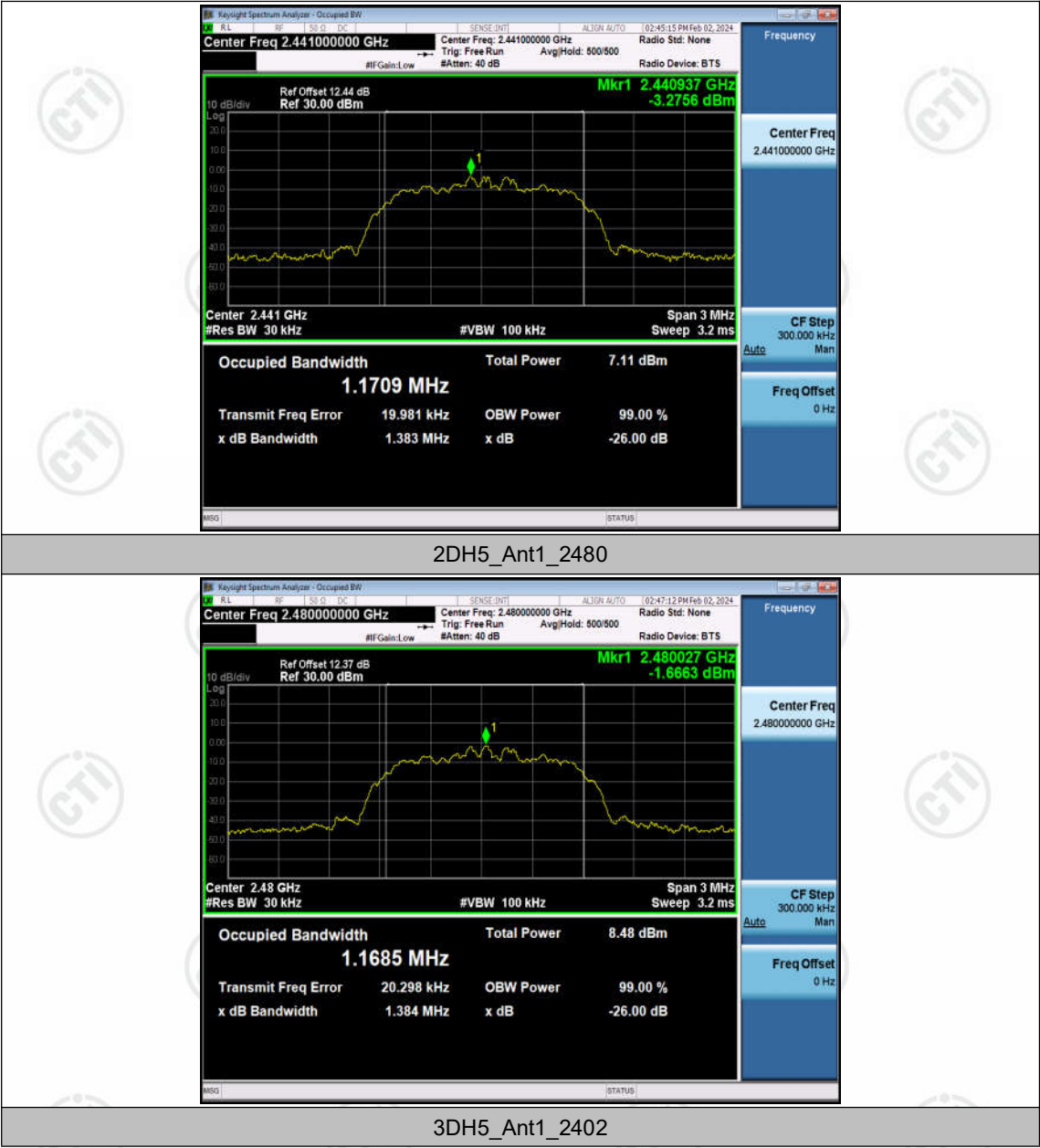
Test Result

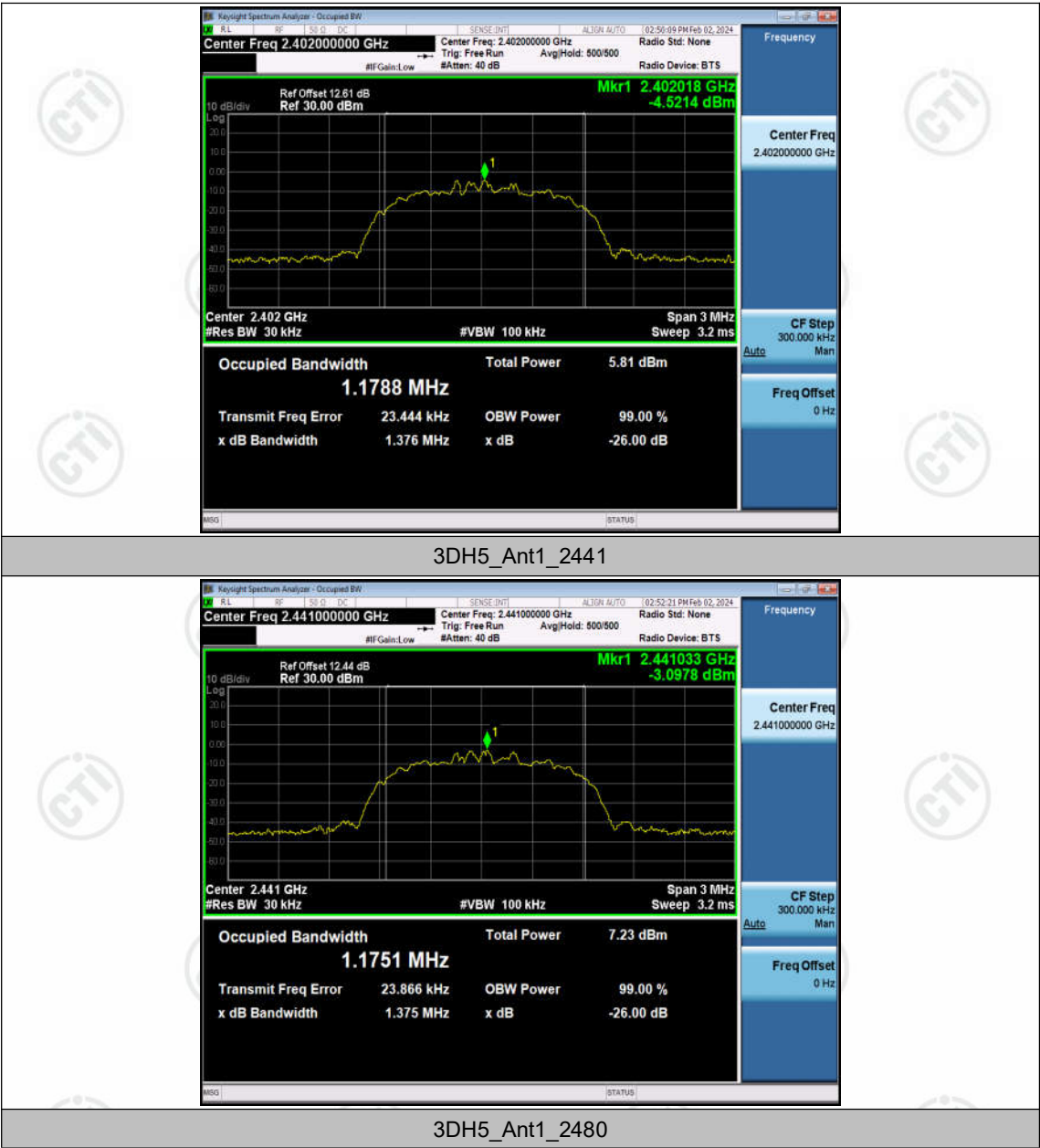
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.84985	2401.5986	2402.4485
		2441	0.85033	2440.5968	2441.4471
		2480	0.84850	2479.5979	2480.4464
2DH5	Ant1	2402	1.1668	2401.4373	2402.6041
		2441	1.1709	2440.4345	2441.6054
		2480	1.1685	2479.4361	2480.6046
3DH5	Ant1	2402	1.1788	2401.4340	2402.6128
		2441	1.1751	2440.4363	2441.6114
		2480	1.1761	2479.4361	2480.6122

Test Graphs









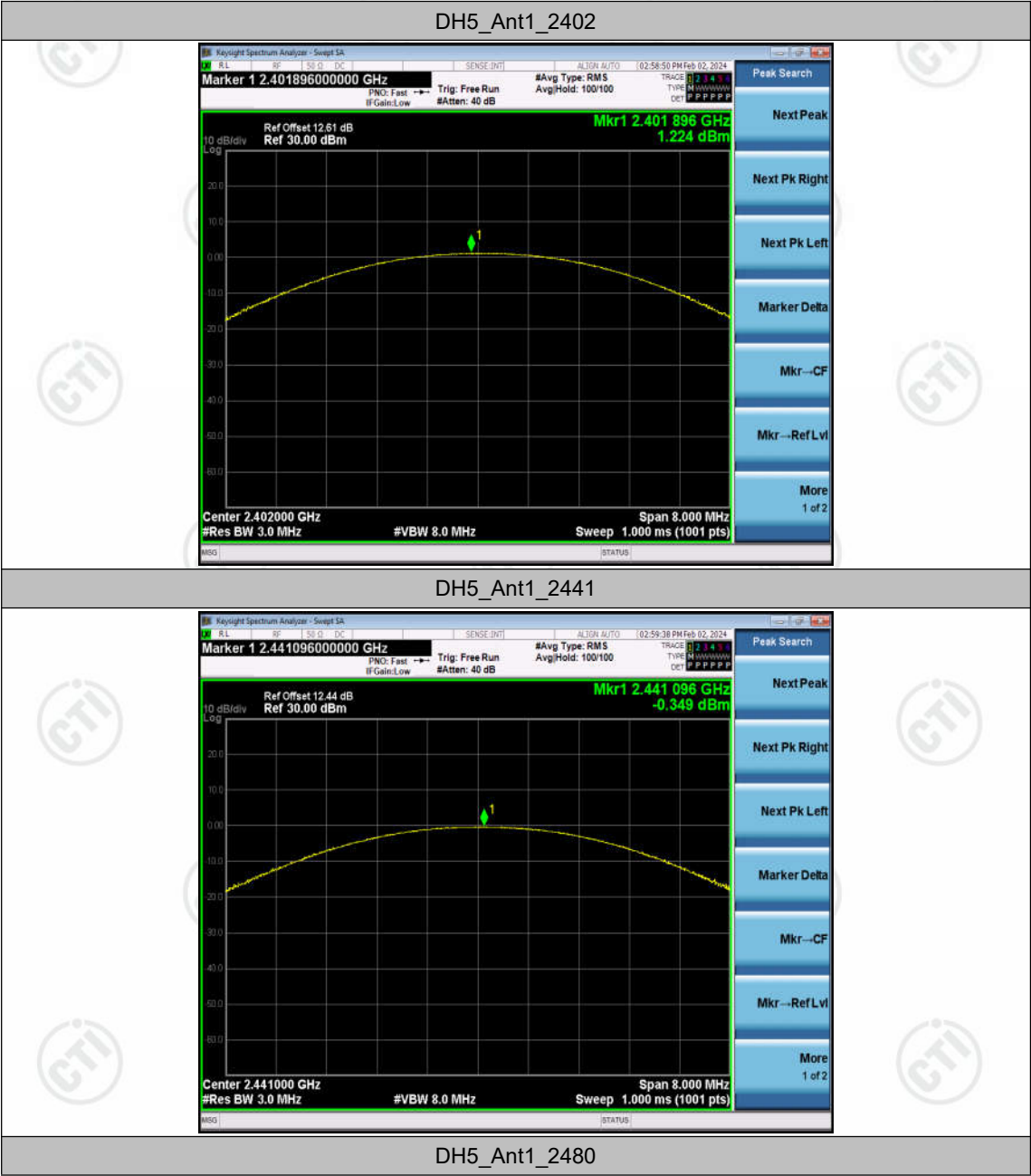


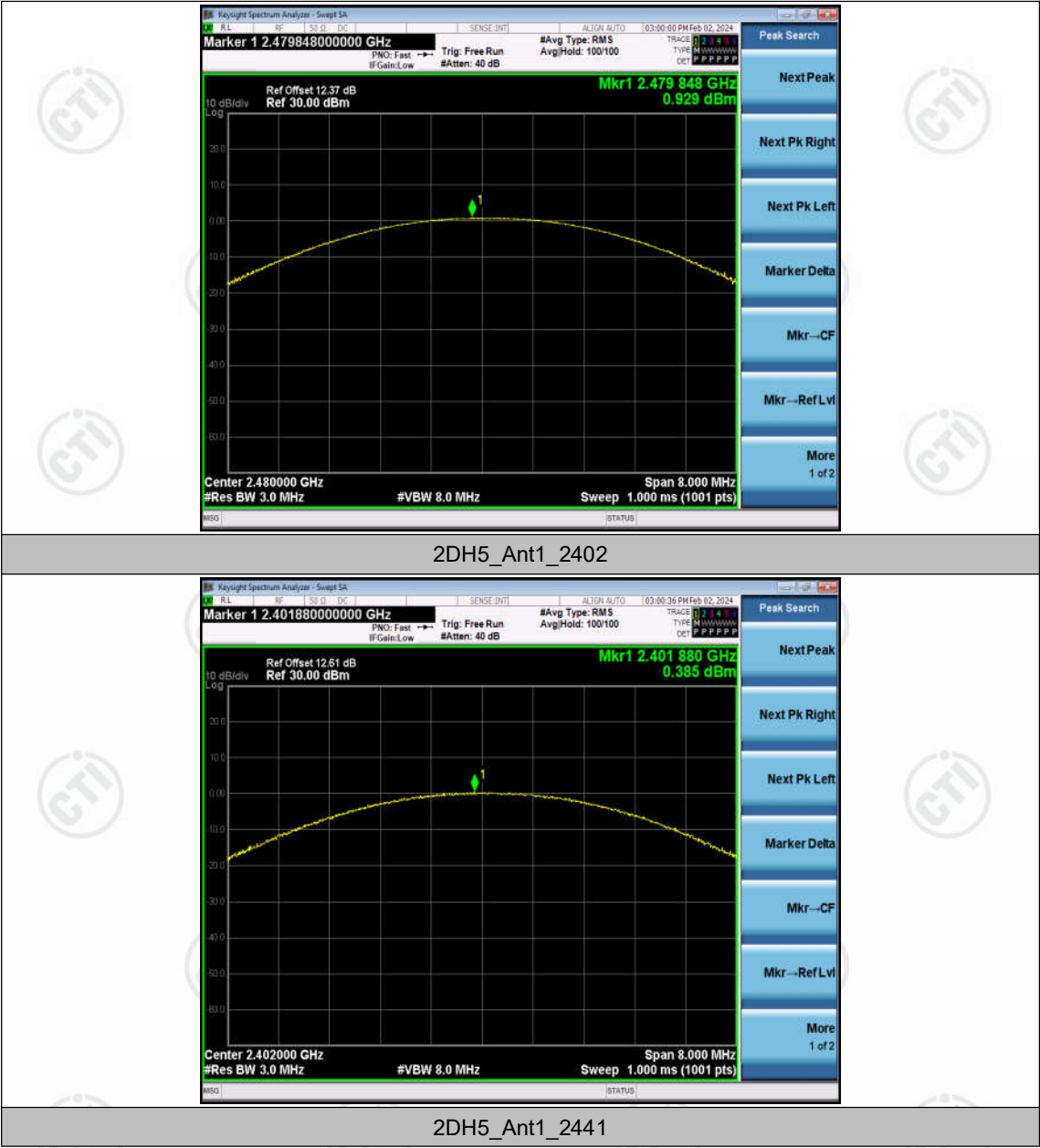
Appendix C: Maximum conducted output power

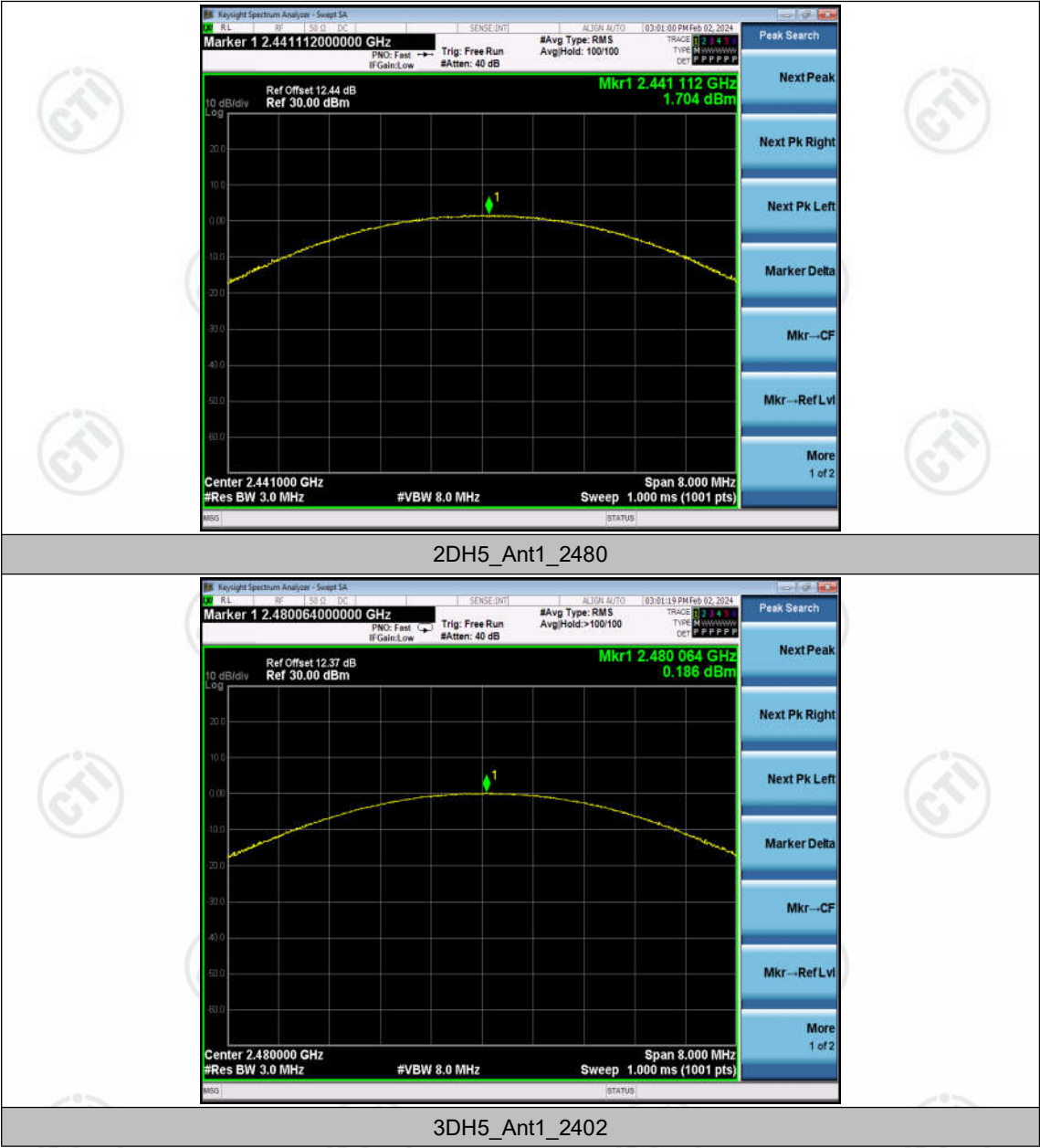
Test Result Peak

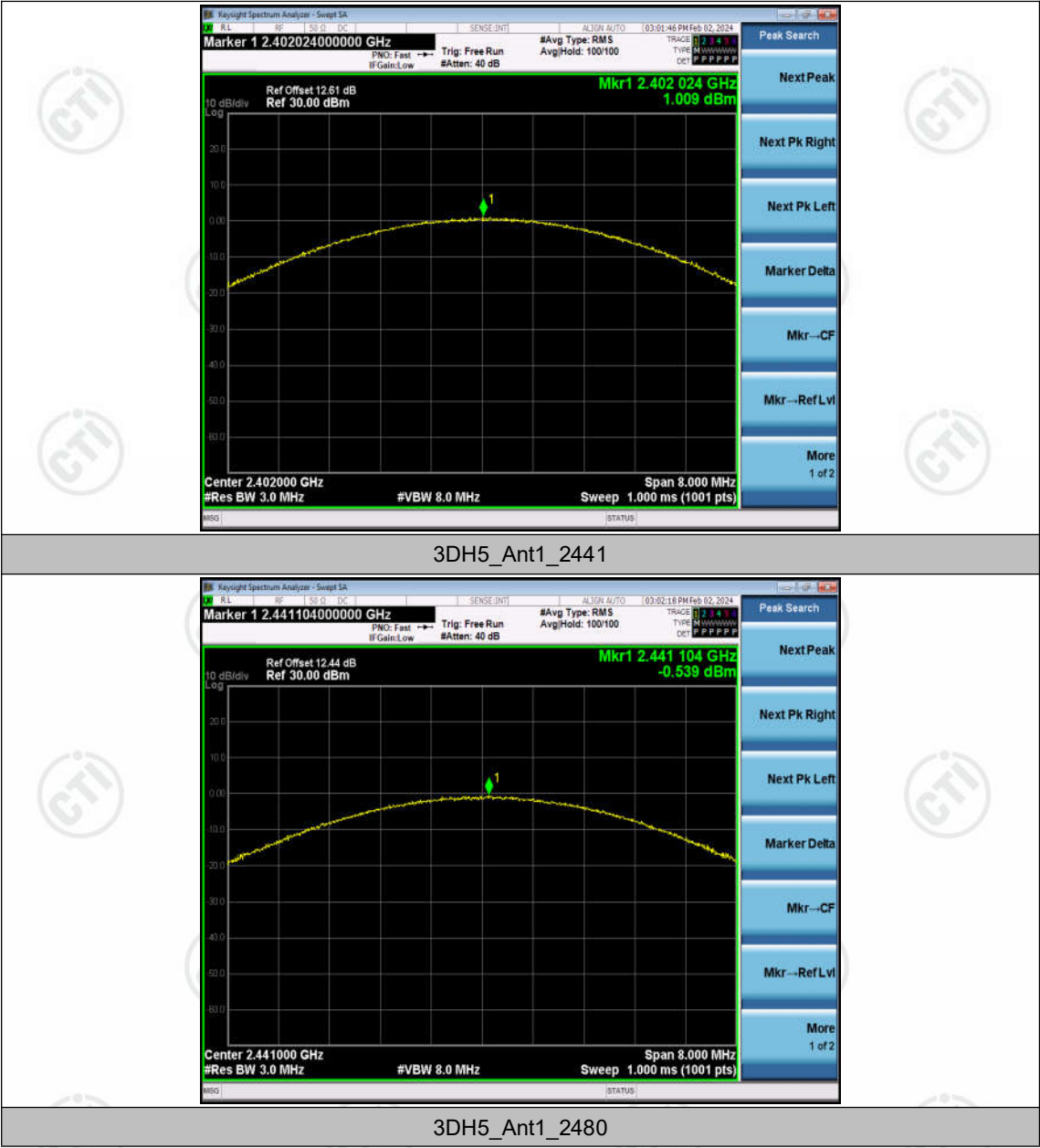
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.22	≤20.97	PASS
		2441	-0.35	≤20.97	PASS
		2480	0.93	≤20.97	PASS
2DH5	Ant1	2402	0.39	≤20.97	PASS
		2441	1.7	≤20.97	PASS
		2480	0.19	≤20.97	PASS
3DH5	Ant1	2402	1.01	≤20.97	PASS
		2441	-0.54	≤20.97	PASS
		2480	0.62	≤20.97	PASS

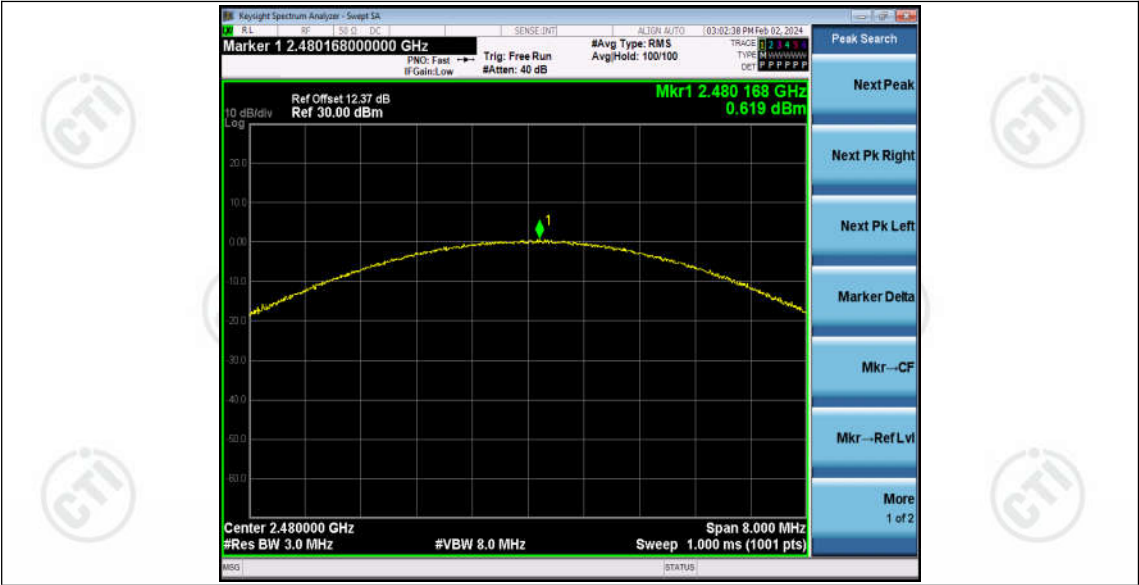
Test Graphs











Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥0.960	PASS
2DH5	Ant1	Hop	1.006	≥0.880	PASS
3DH5	Ant1	Hop	1.044	≥0.874	PASS

Test Graphs



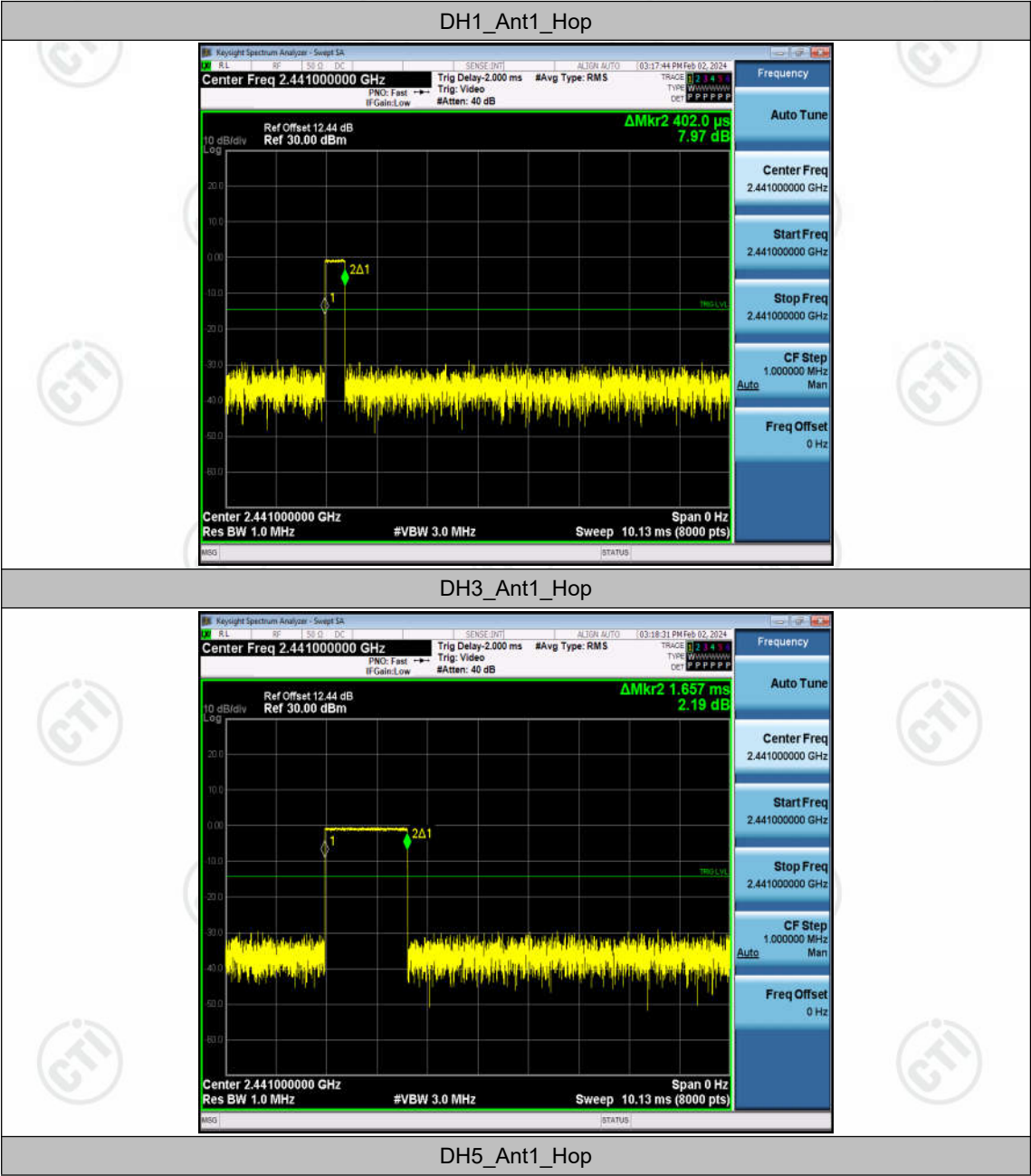


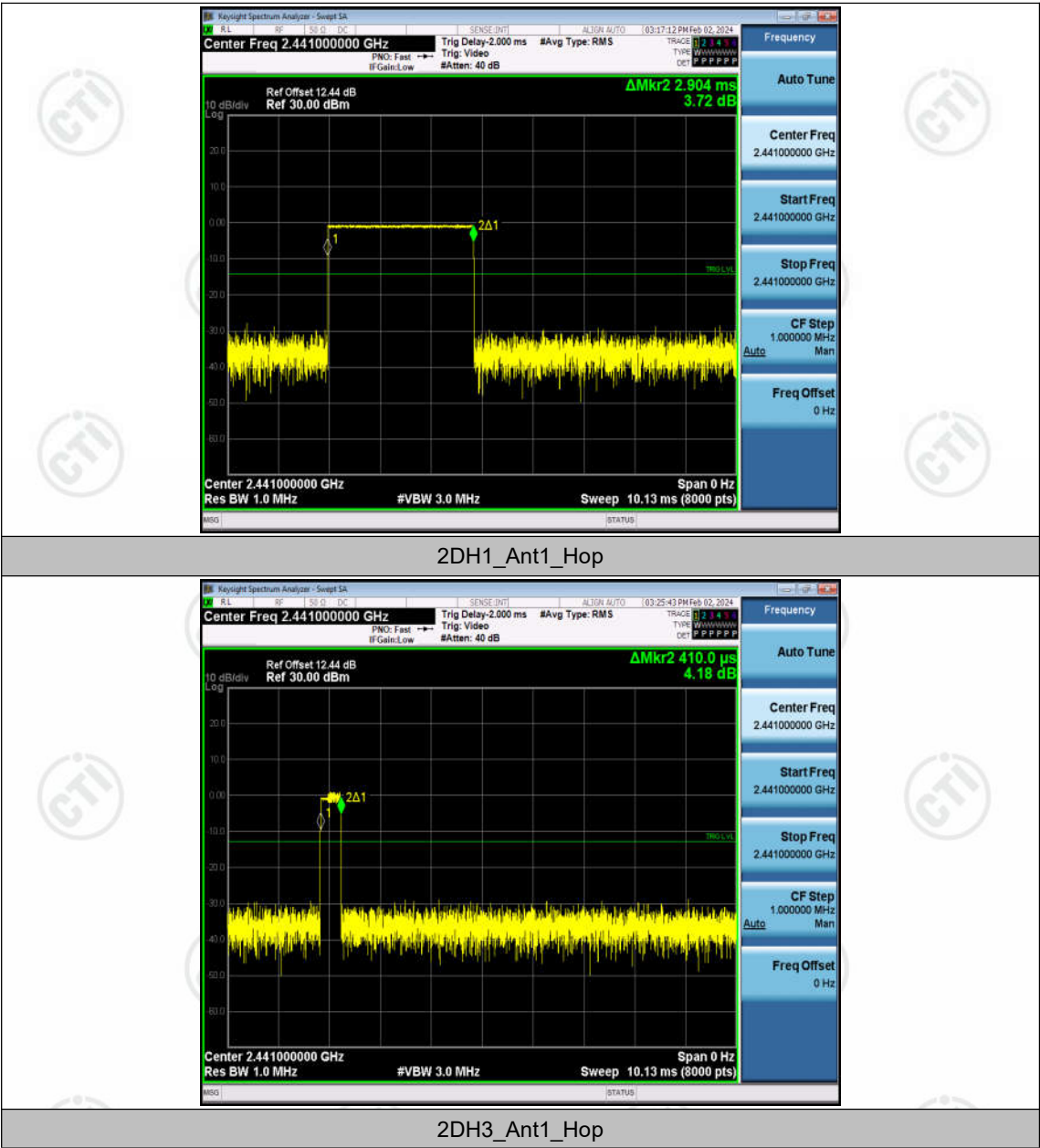
Appendix E: Time of occupancy

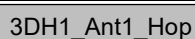
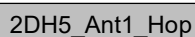
Test Result

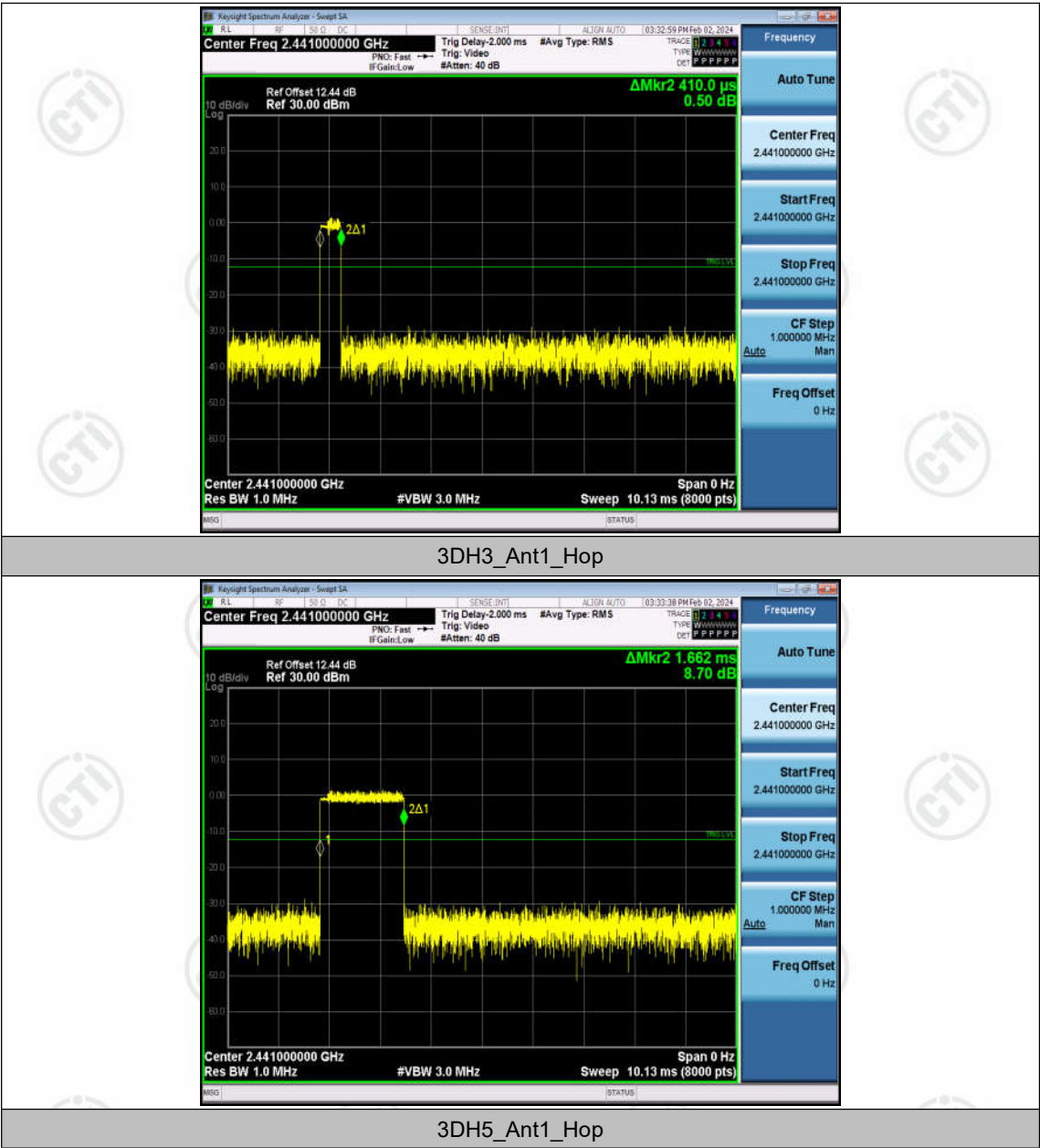
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.402	320	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.657	160	0.265	≤0.4	PASS
DH5	Ant1	Hop	2.904	106.67	0.31	≤0.4	PASS
2DH1	Ant1	Hop	0.410	320	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.663	160	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.911	106.67	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.410	320	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.662	160	0.266	≤0.4	PASS
3DH5	Ant1	Hop	2.912	106.67	0.311	≤0.4	PASS

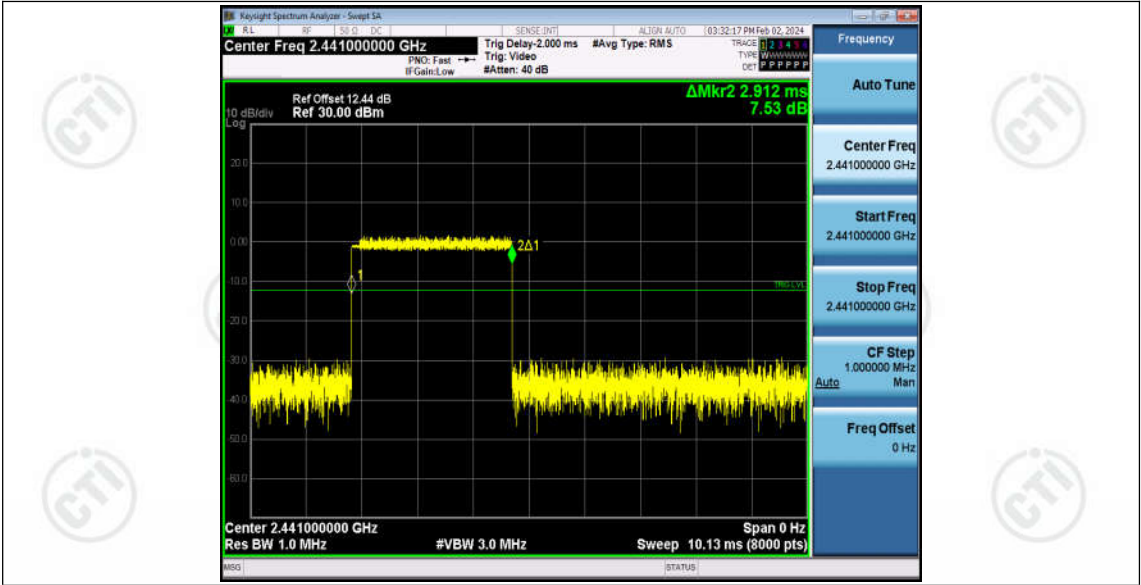
Test Graphs









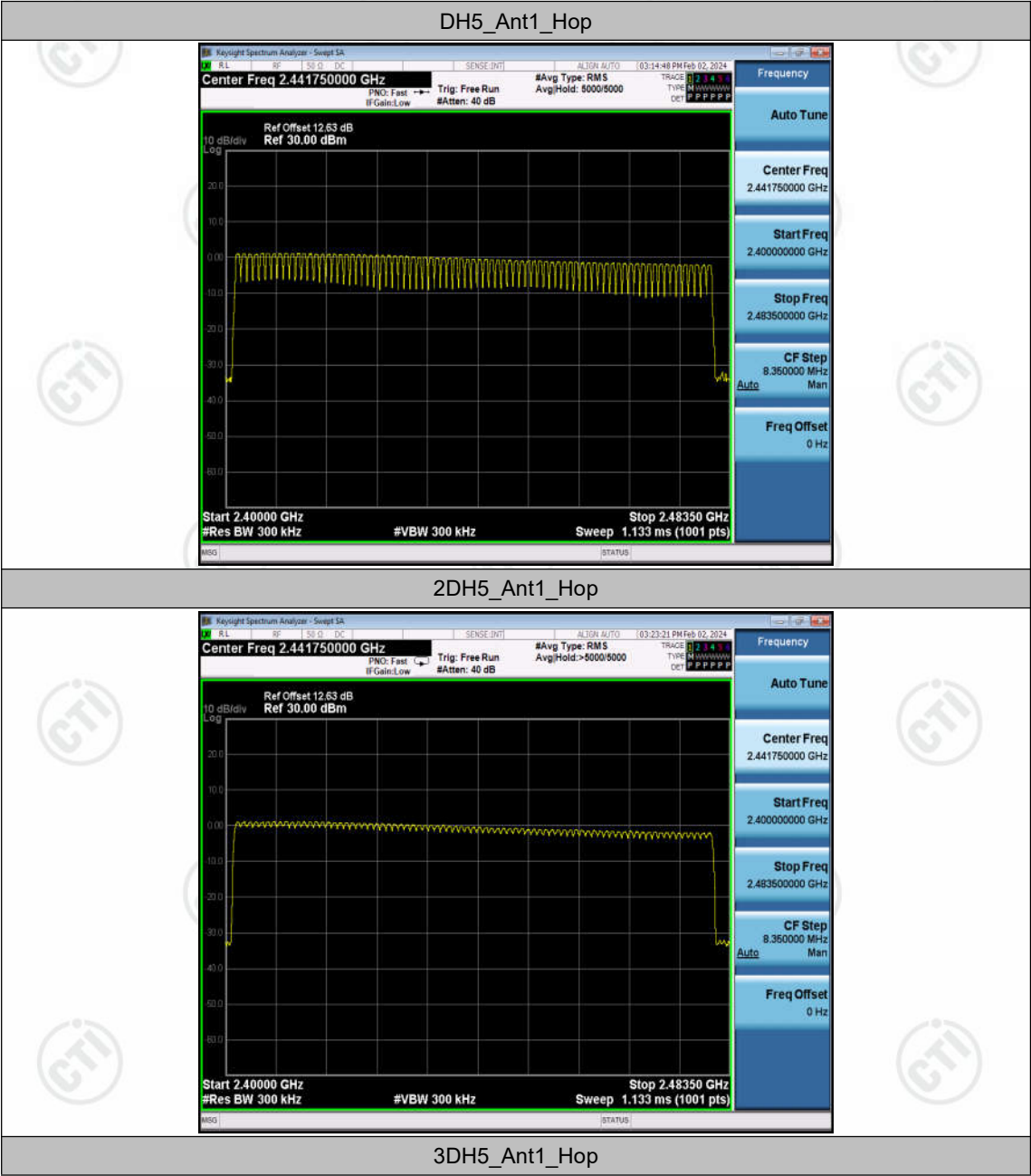


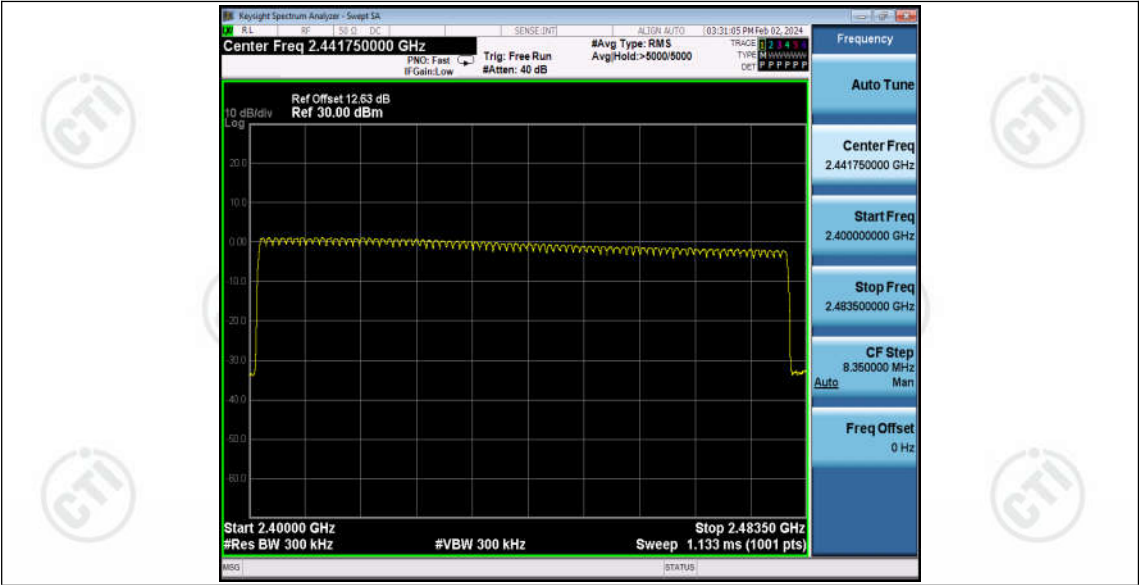
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	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





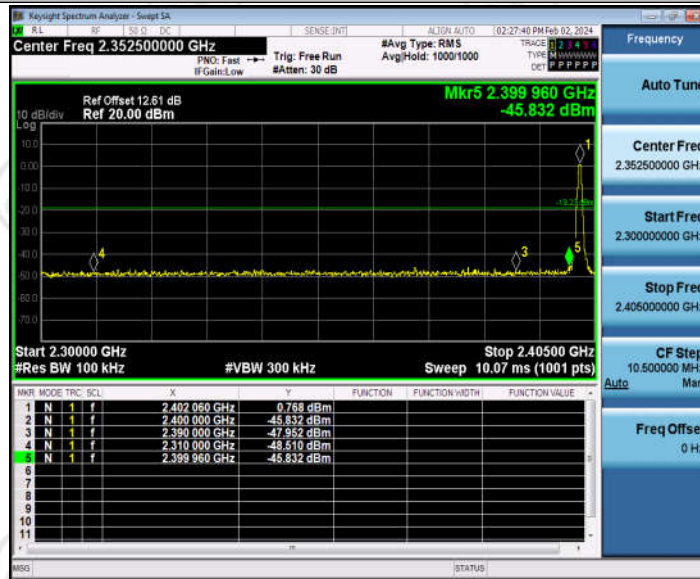
Appendix G: Band edge measurements

Test Result

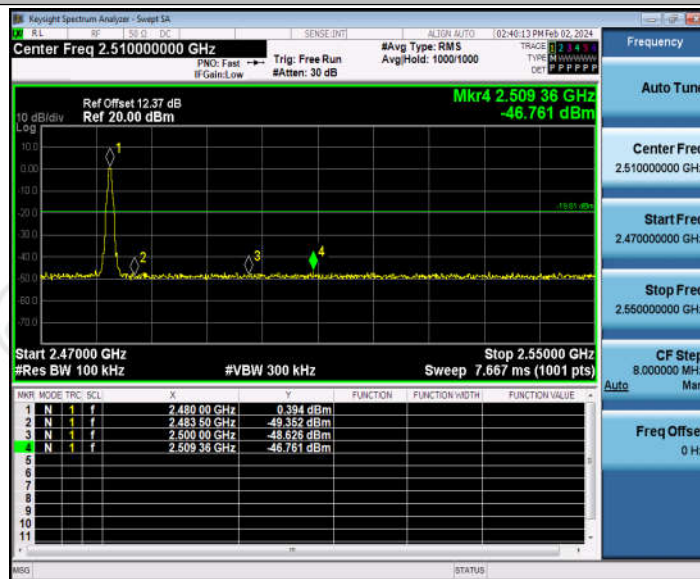
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.77	-45.83	≤-19.23	PASS
		High	2480	0.39	-46.76	≤-19.61	PASS
		Low	Hop_2402	0.49	-46.79	≤-19.51	PASS
		High	Hop_2480	-2.54	-46.93	≤-22.54	PASS
2DH5	Ant1	Low	2402	0.71	-45.56	≤-19.29	PASS
		High	2480	0.26	-46.8	≤-19.74	PASS
		Low	Hop_2402	-0.28	-46.24	≤-20.28	PASS
		High	Hop_2480	-3.08	-46.47	≤-23.08	PASS
3DH5	Ant1	Low	2402	0.66	-45.64	≤-19.34	PASS
		High	2480	0.46	-46.85	≤-19.54	PASS
		Low	Hop_2402	-1.06	-44.42	≤-21.06	PASS
		High	Hop_2480	-3.12	-47.06	≤-23.12	PASS

Test Graphs

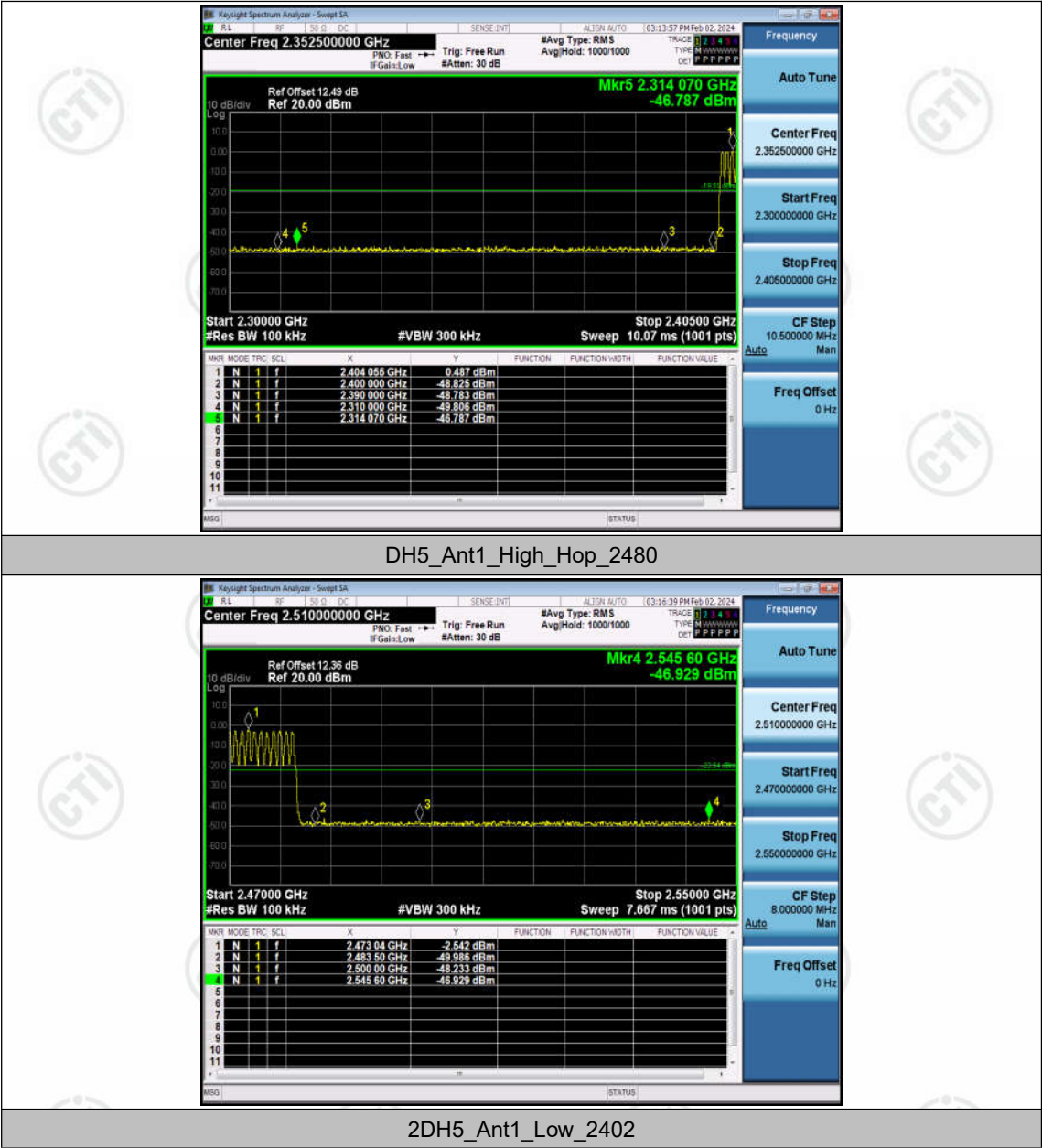
DH5_Ant1_Low_2402

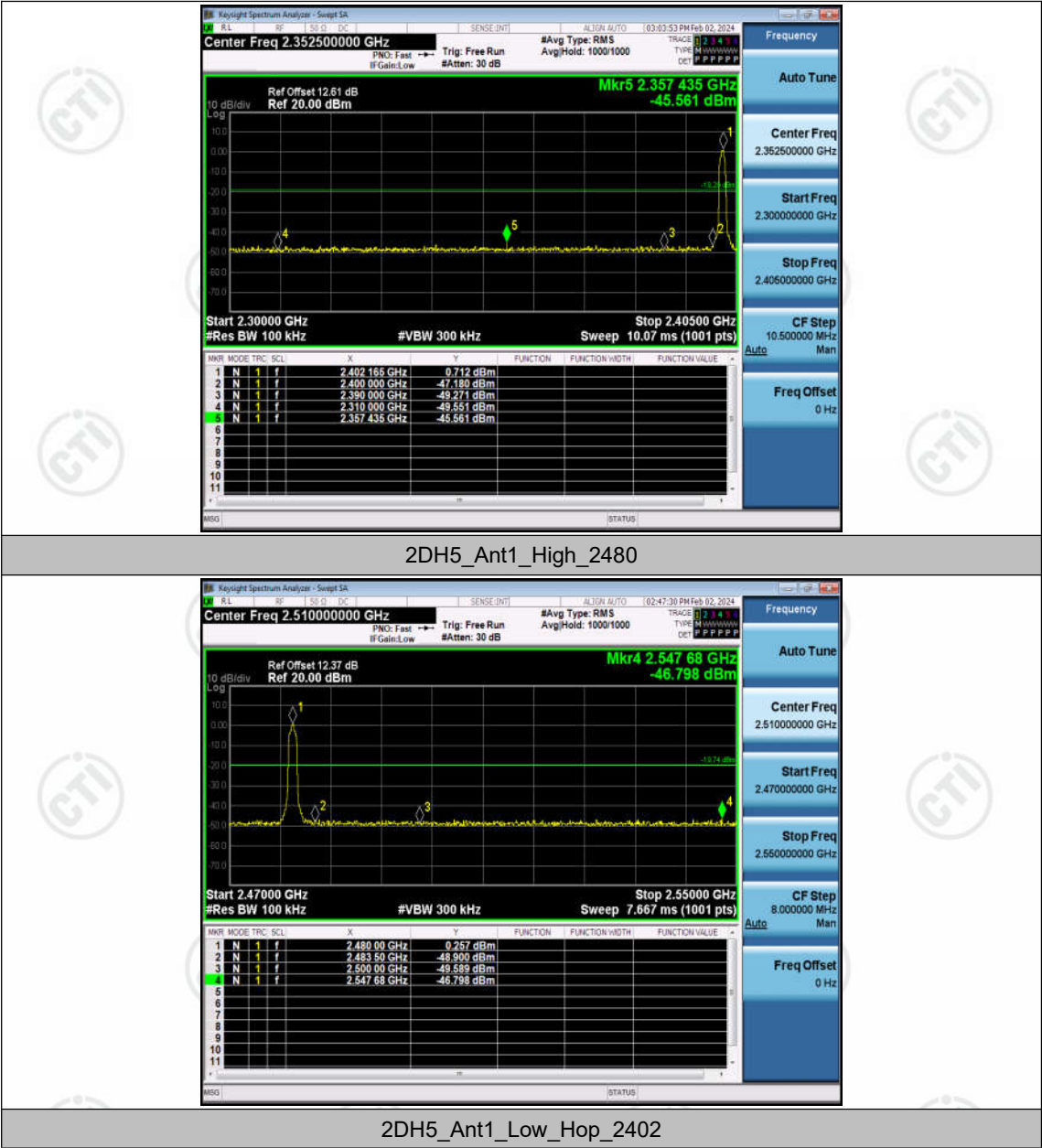


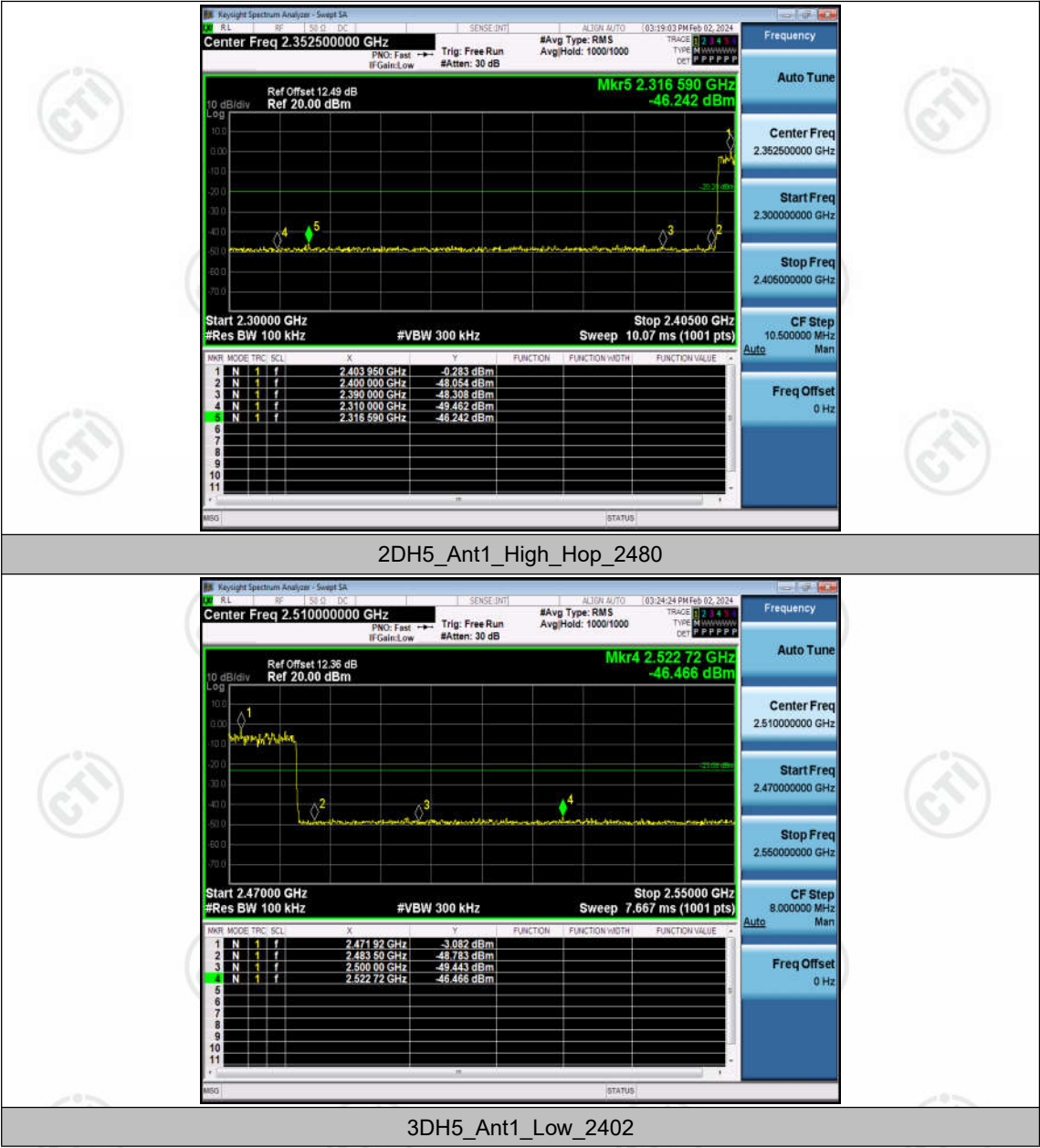
DH5_Ant1_High_2480

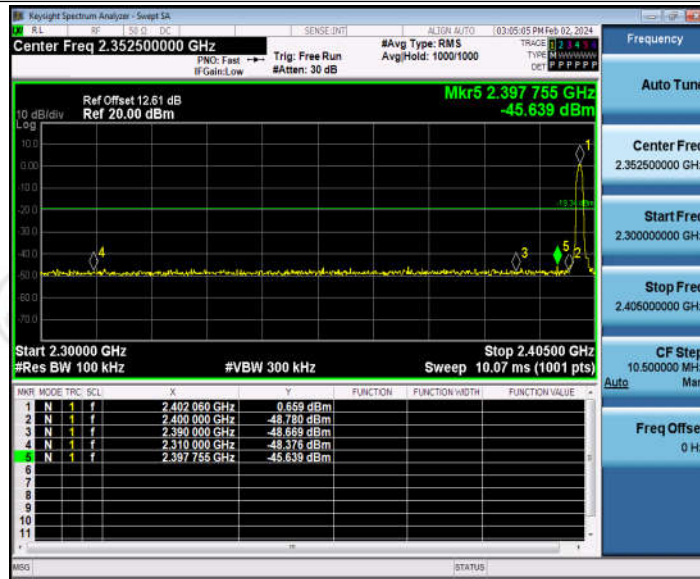


DH5_Ant1_Low_Hop_2402

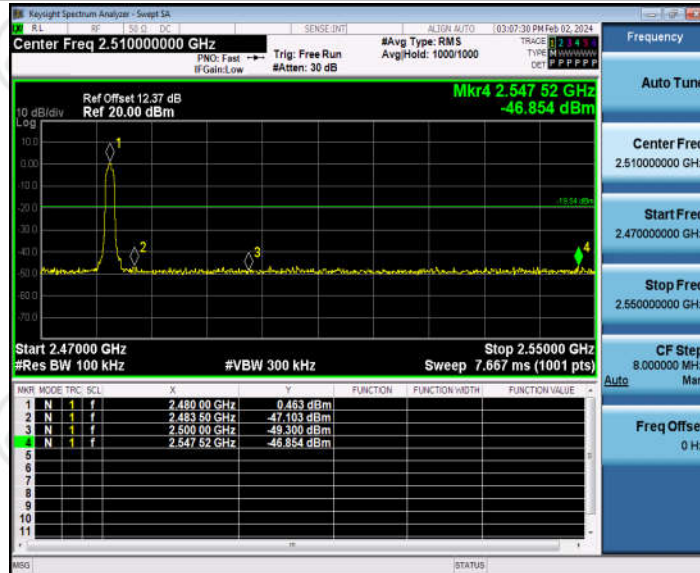




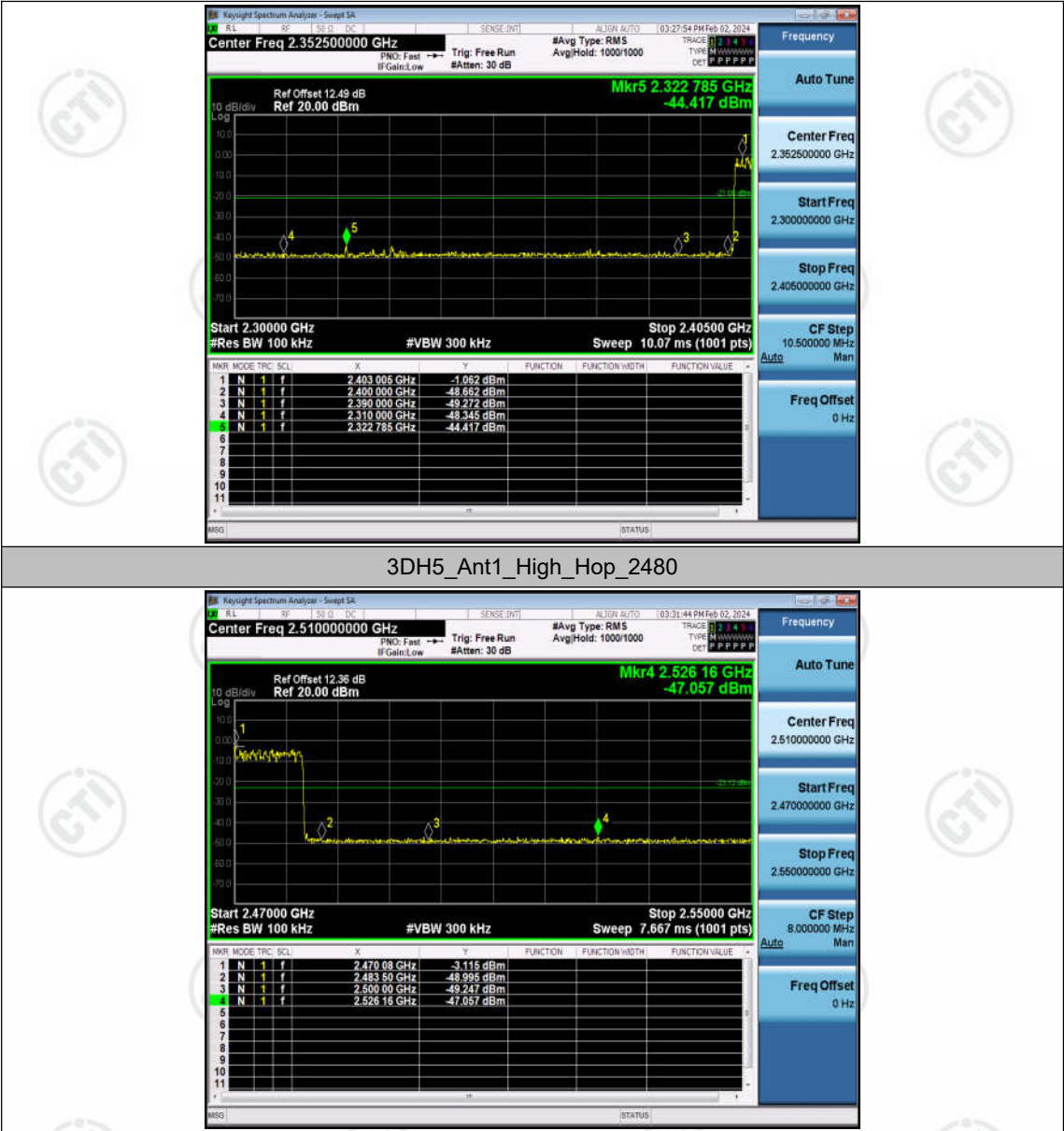




3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

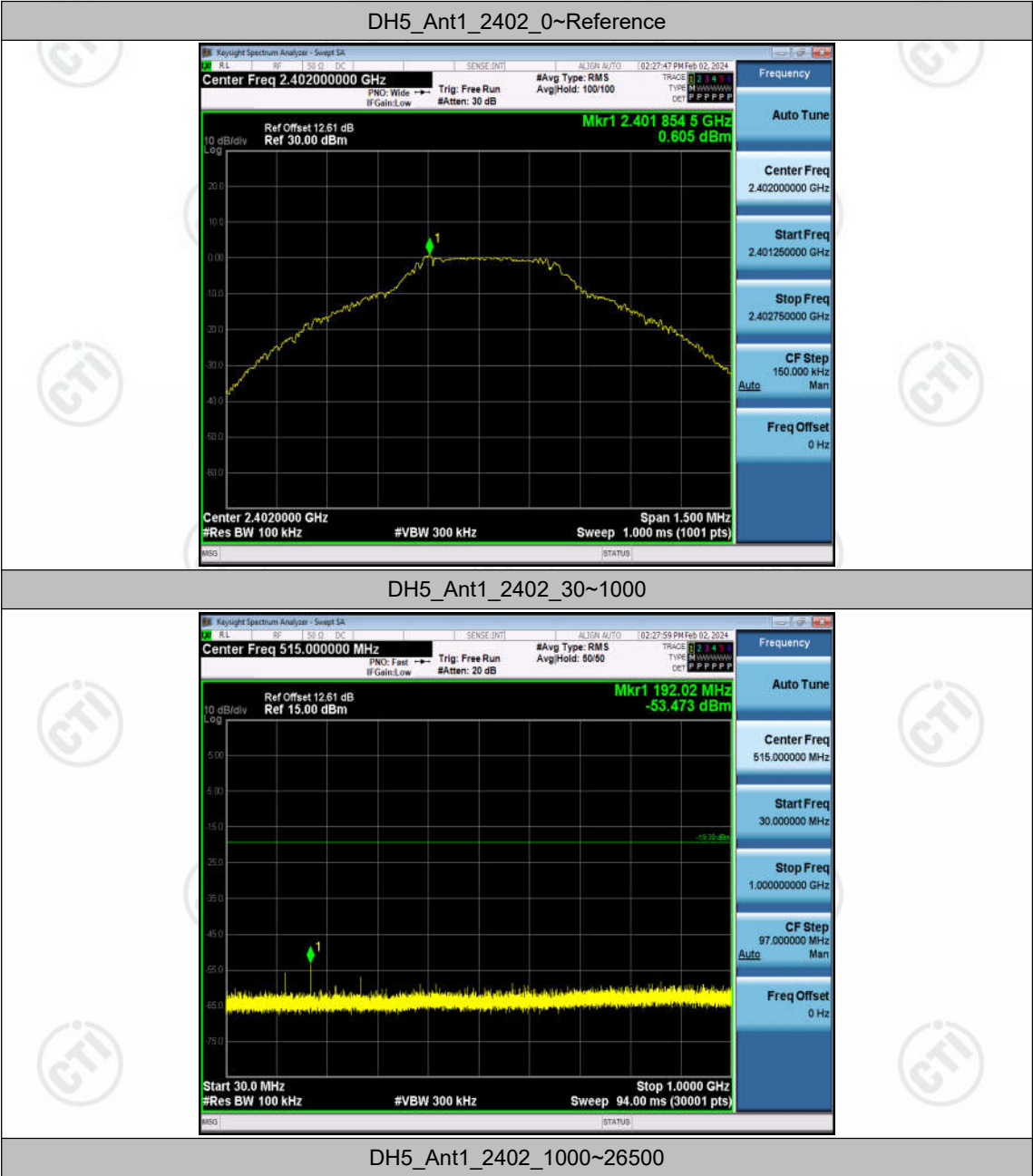


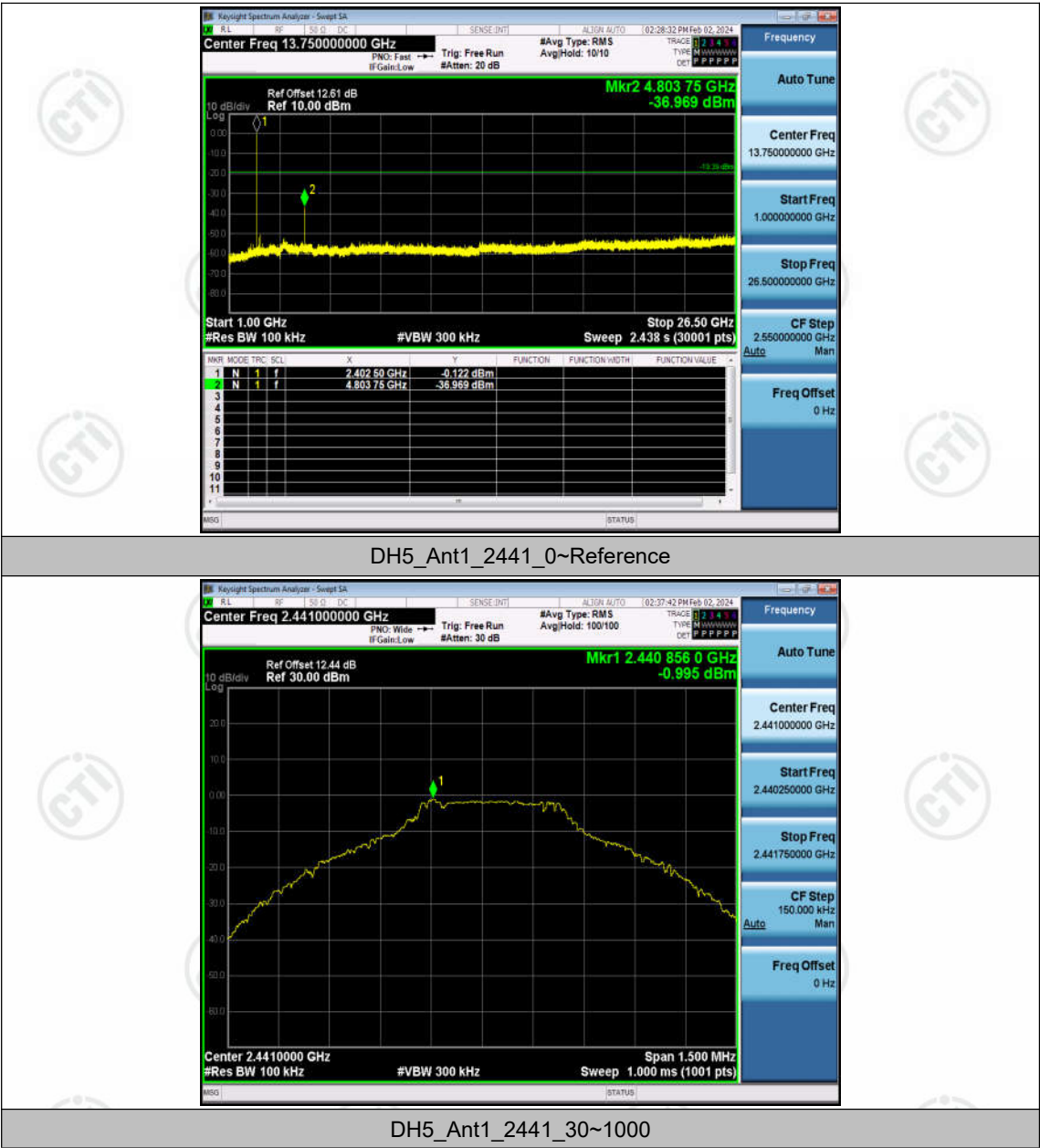
Appendix H: Conducted Spurious Emission

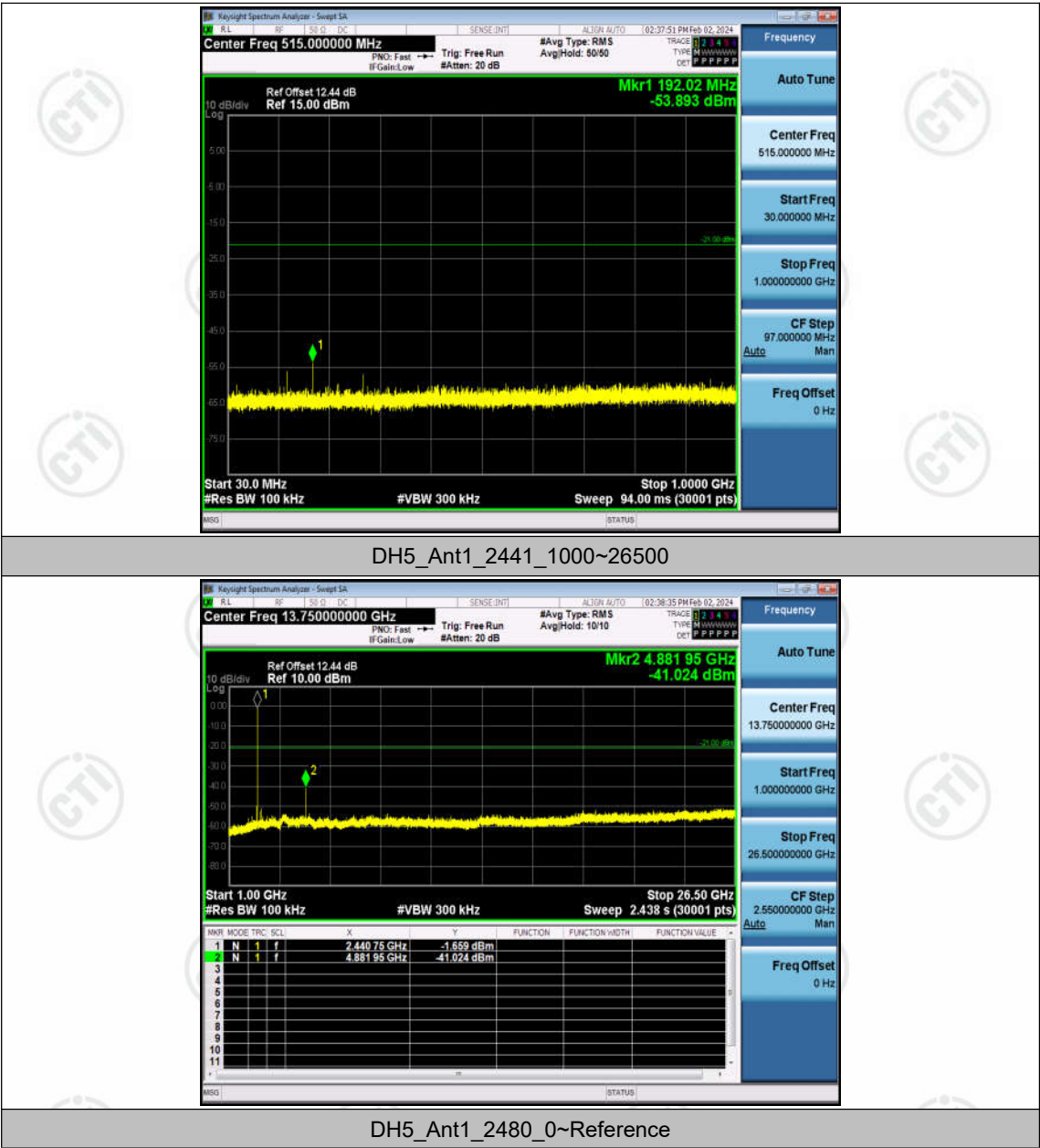
Test Result

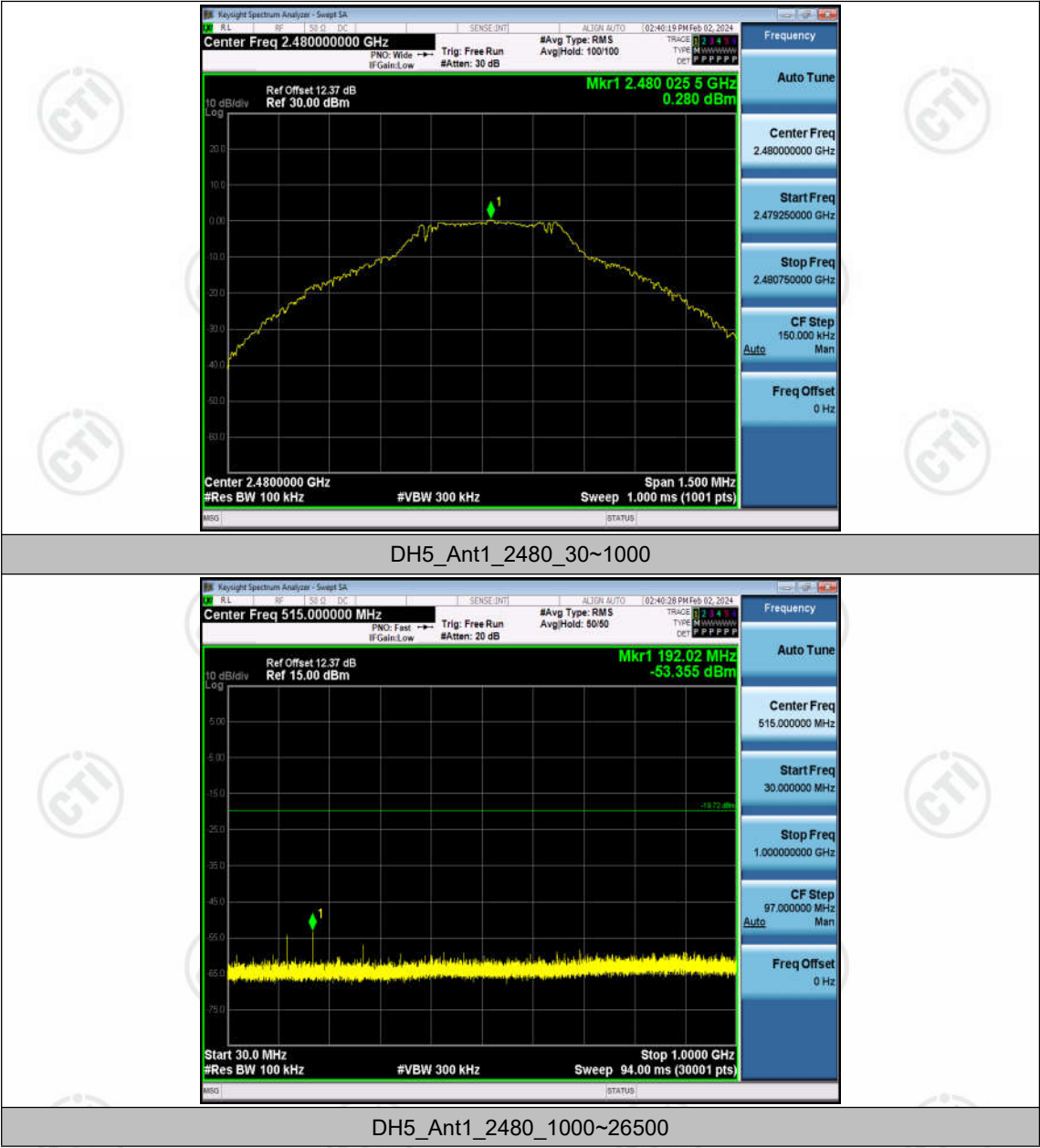
Test Mode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.61	0.61	---	PASS
			30~1000	0.61	-53.47	≤-19.39	PASS
			1000~26500	0.61	-36.97	≤-19.39	PASS
		2441	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-53.89	≤-21	PASS
			1000~26500	-1.00	-41.02	≤-21	PASS
		2480	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-53.36	≤-19.72	PASS
			1000~26500	0.28	-36.62	≤-19.72	PASS
2DH5	Ant1	2402	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-52.81	≤-19.59	PASS
			1000~26500	0.41	-41.32	≤-19.59	PASS
		2441	Reference	1.88	1.88	---	PASS
			30~1000	1.88	-53.2	≤-18.12	PASS
			1000~26500	1.88	-37.2	≤-18.12	PASS
		2480	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-52.85	≤-19.85	PASS
			1000~26500	0.15	-40.18	≤-19.85	PASS
3DH5	Ant1	2402	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-52.95	≤-19.13	PASS
			1000~26500	0.87	-39.4	≤-19.13	PASS
		2441	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-52.39	≤-21.02	PASS
			1000~26500	-1.02	-38.32	≤-21.02	PASS
		2480	Reference	0.19	0.19	---	PASS
			30~1000	0.19	-53.19	≤-19.81	PASS
			1000~26500	0.19	-37.51	≤-19.81	PASS

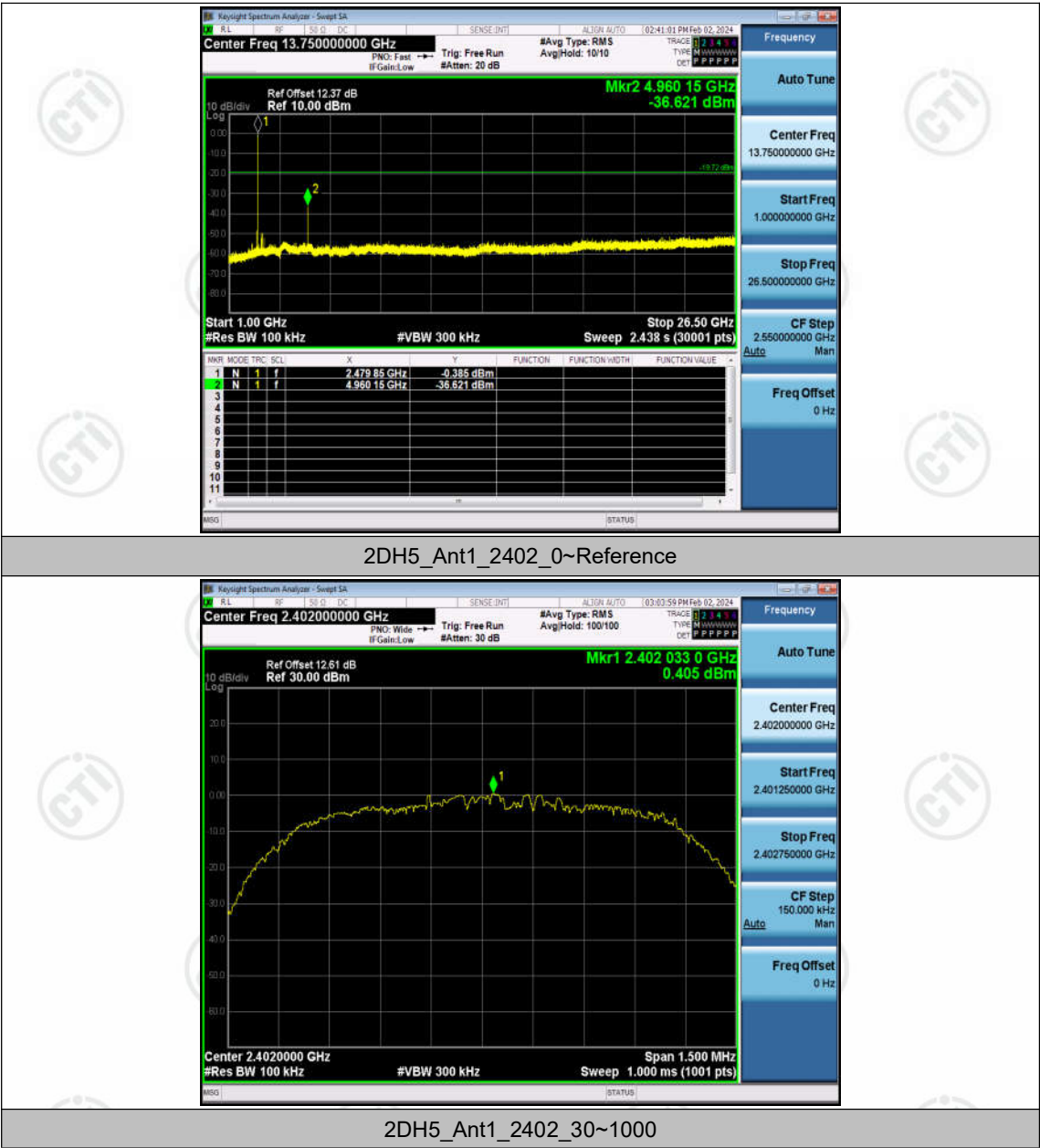
Test Graphs

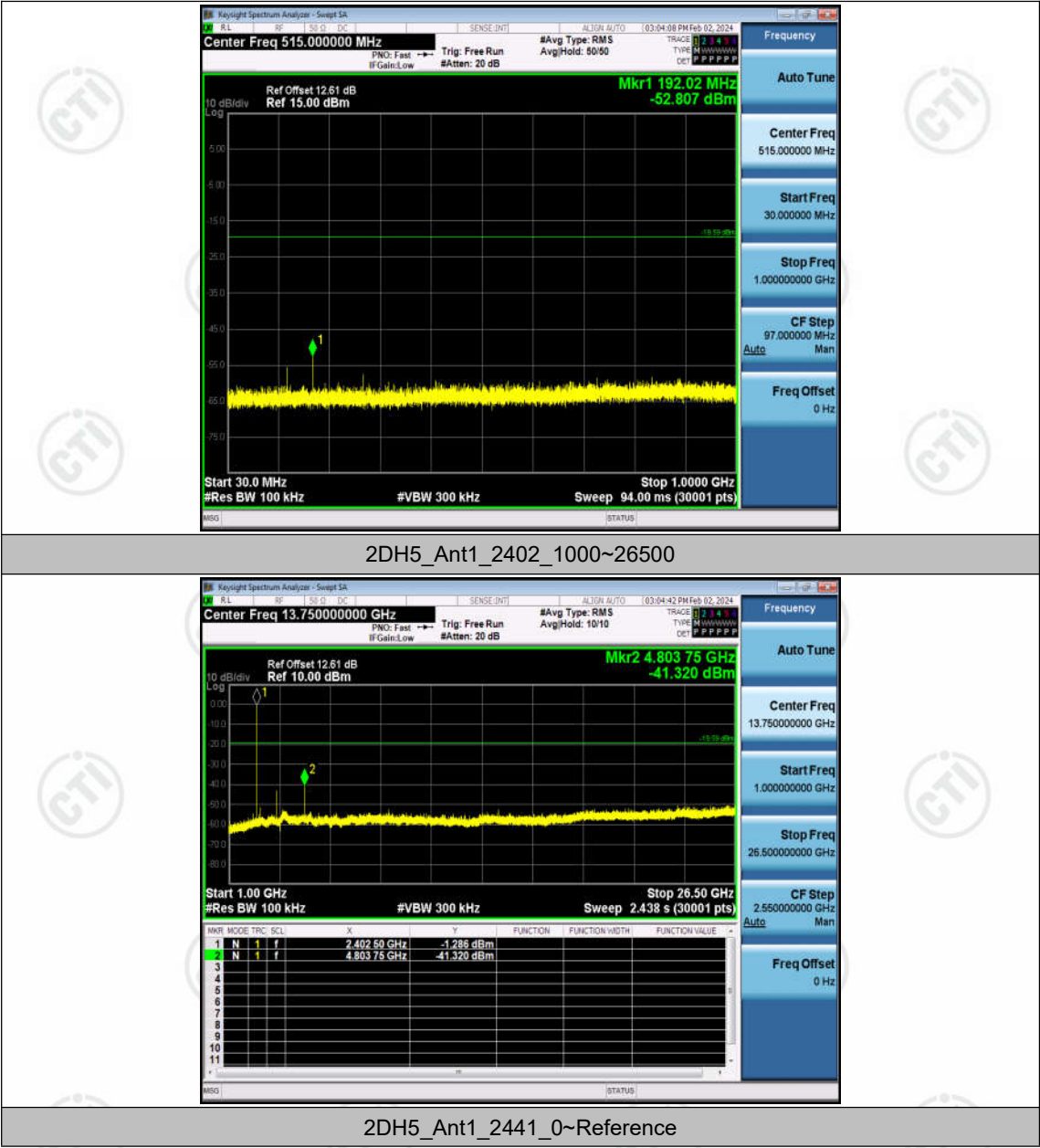


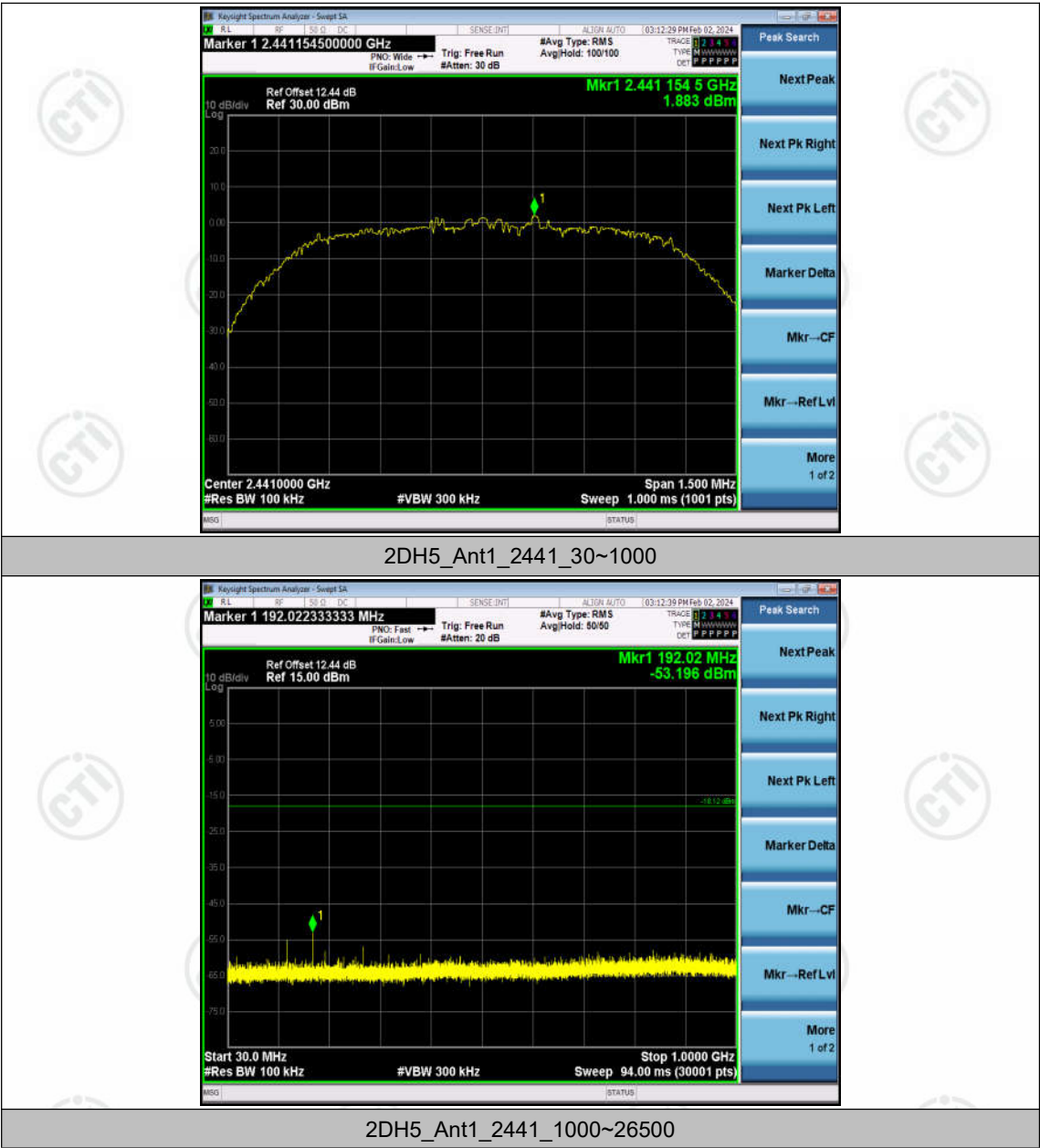


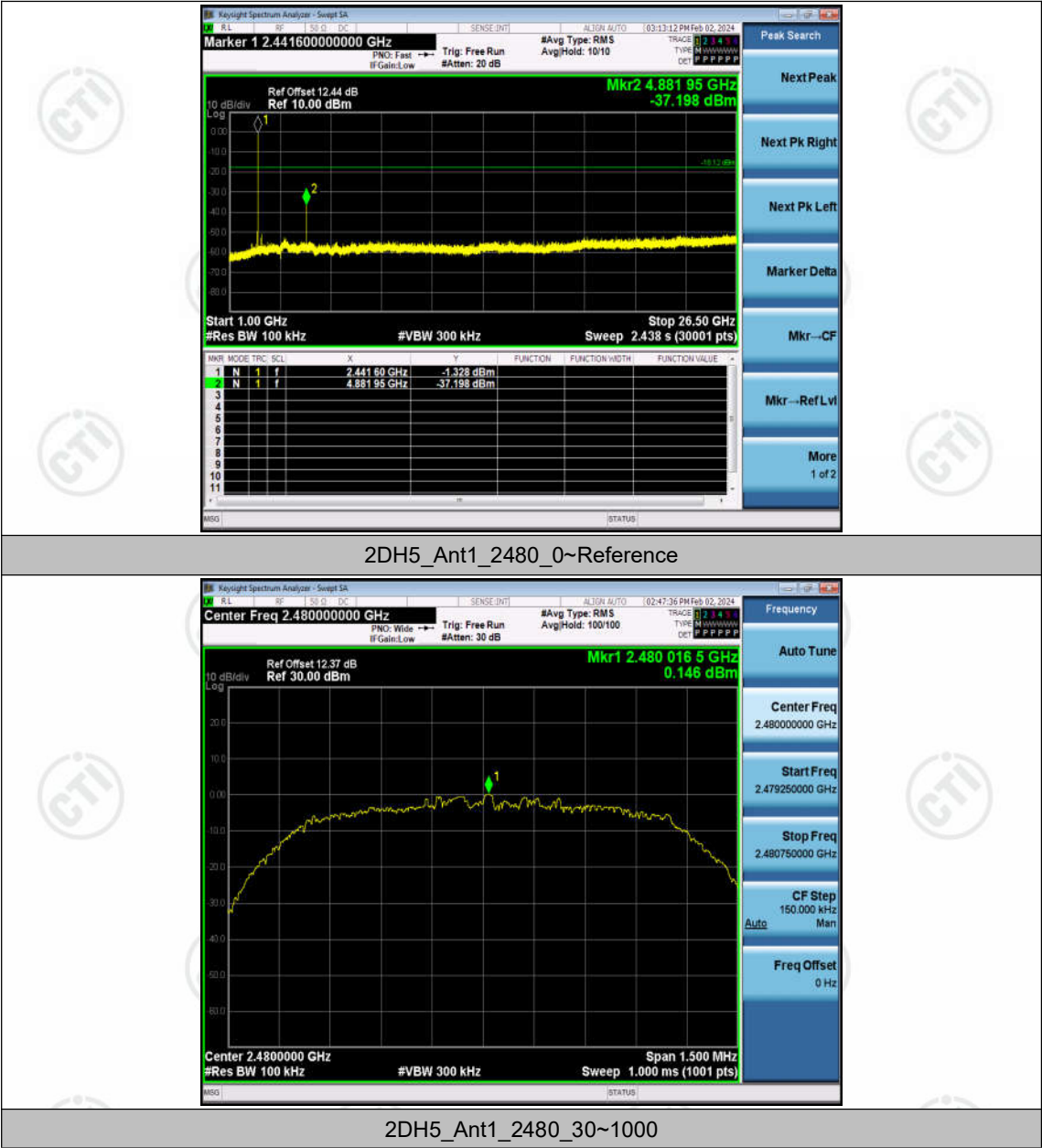


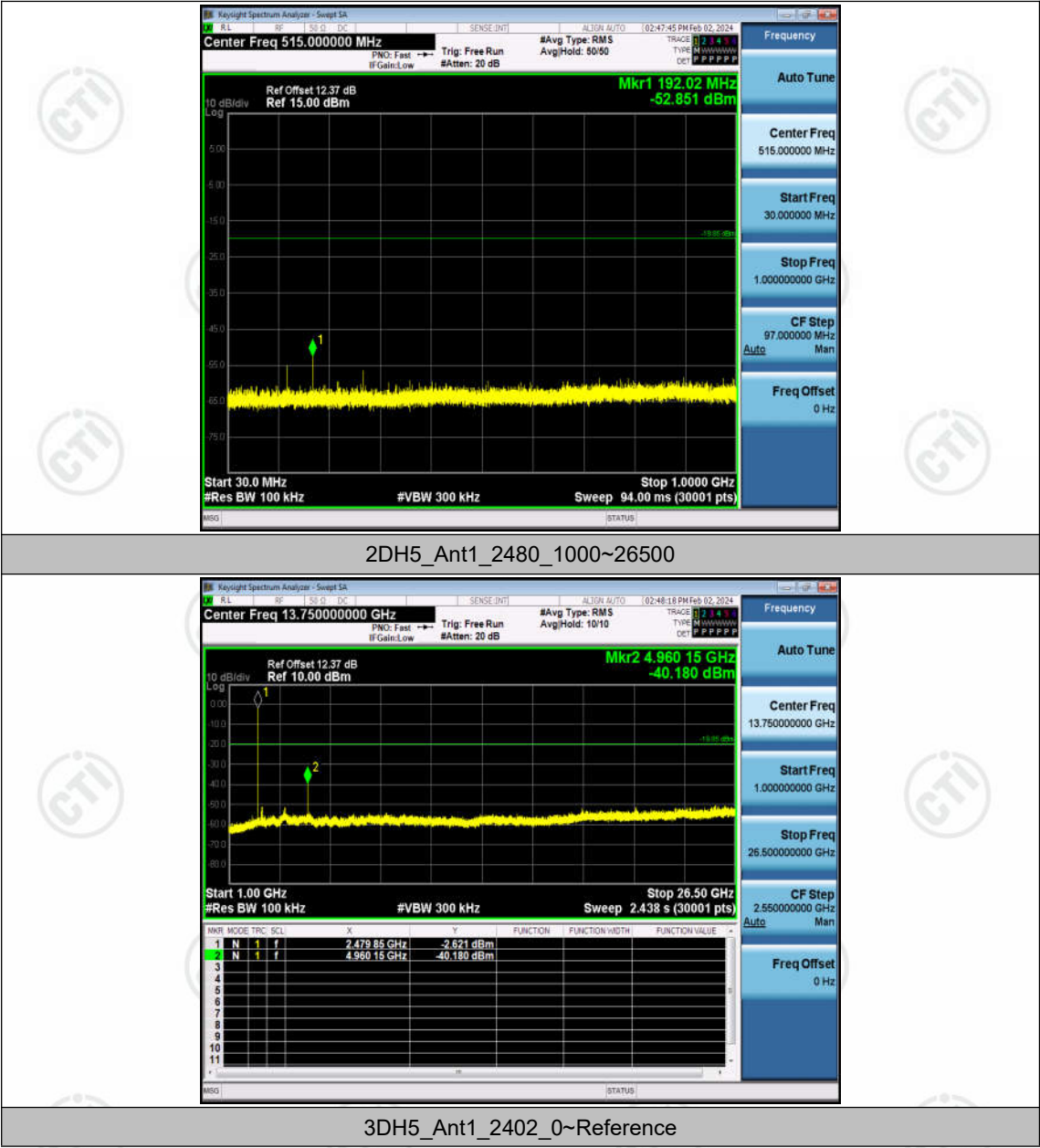


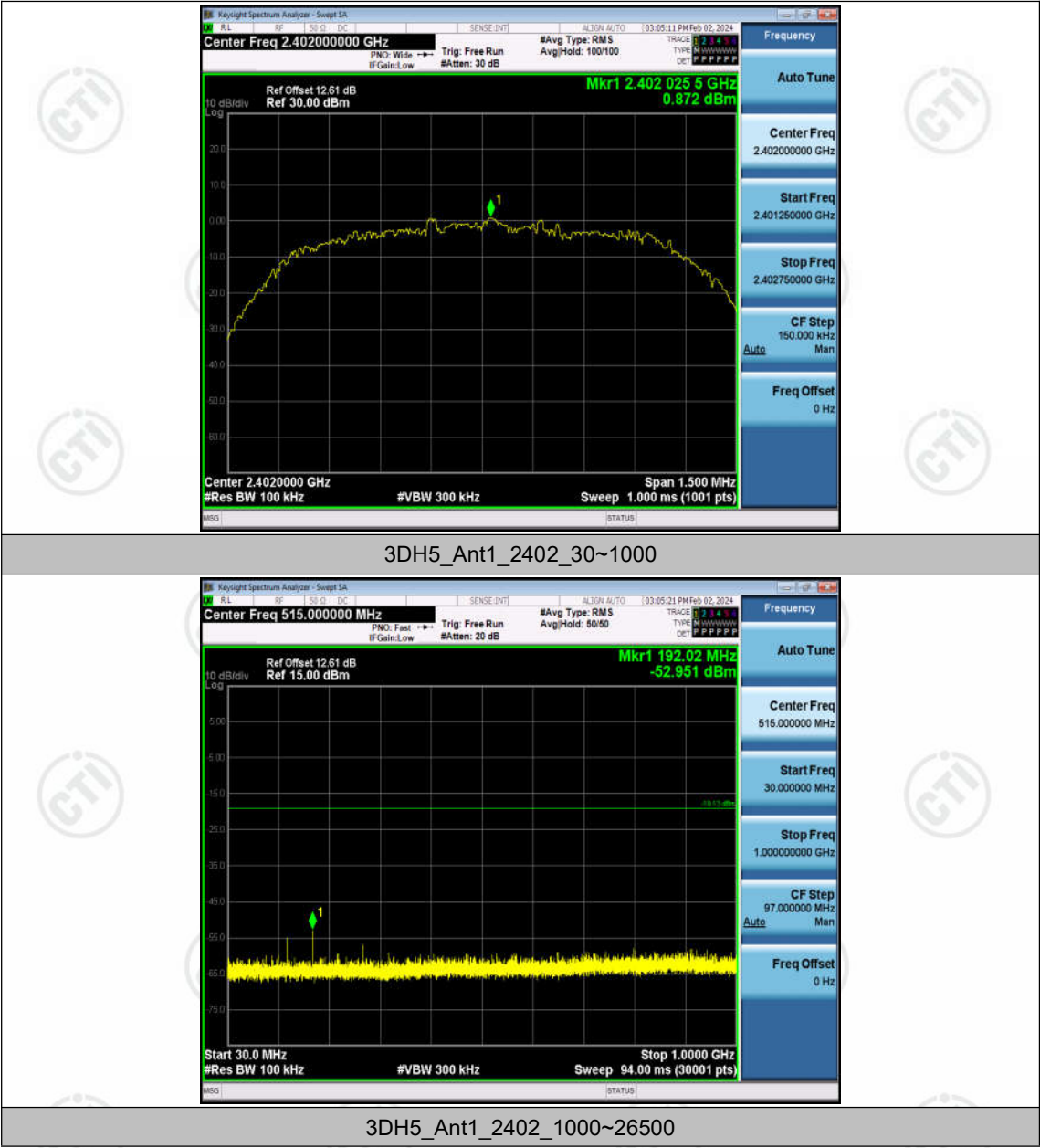


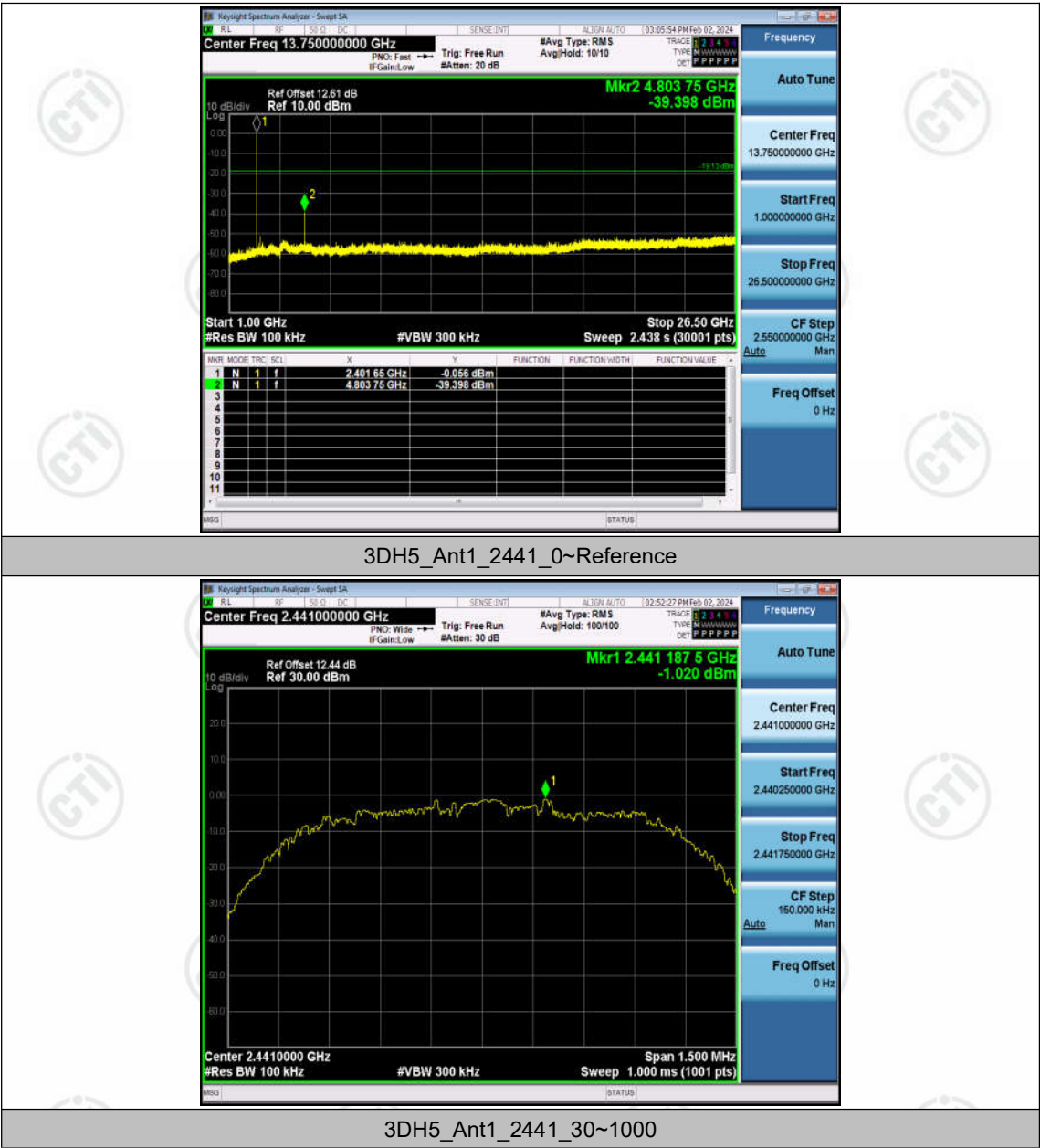


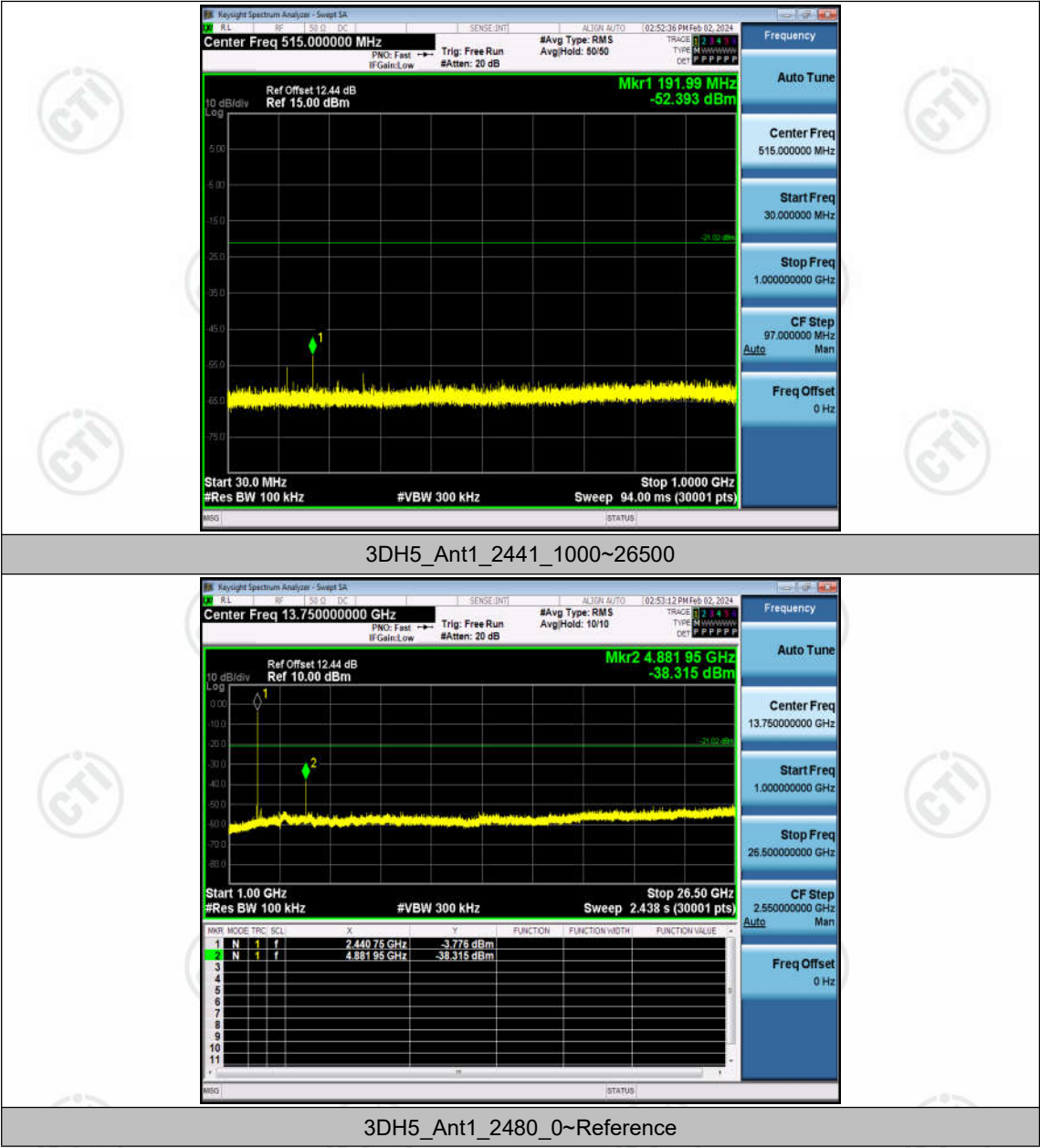


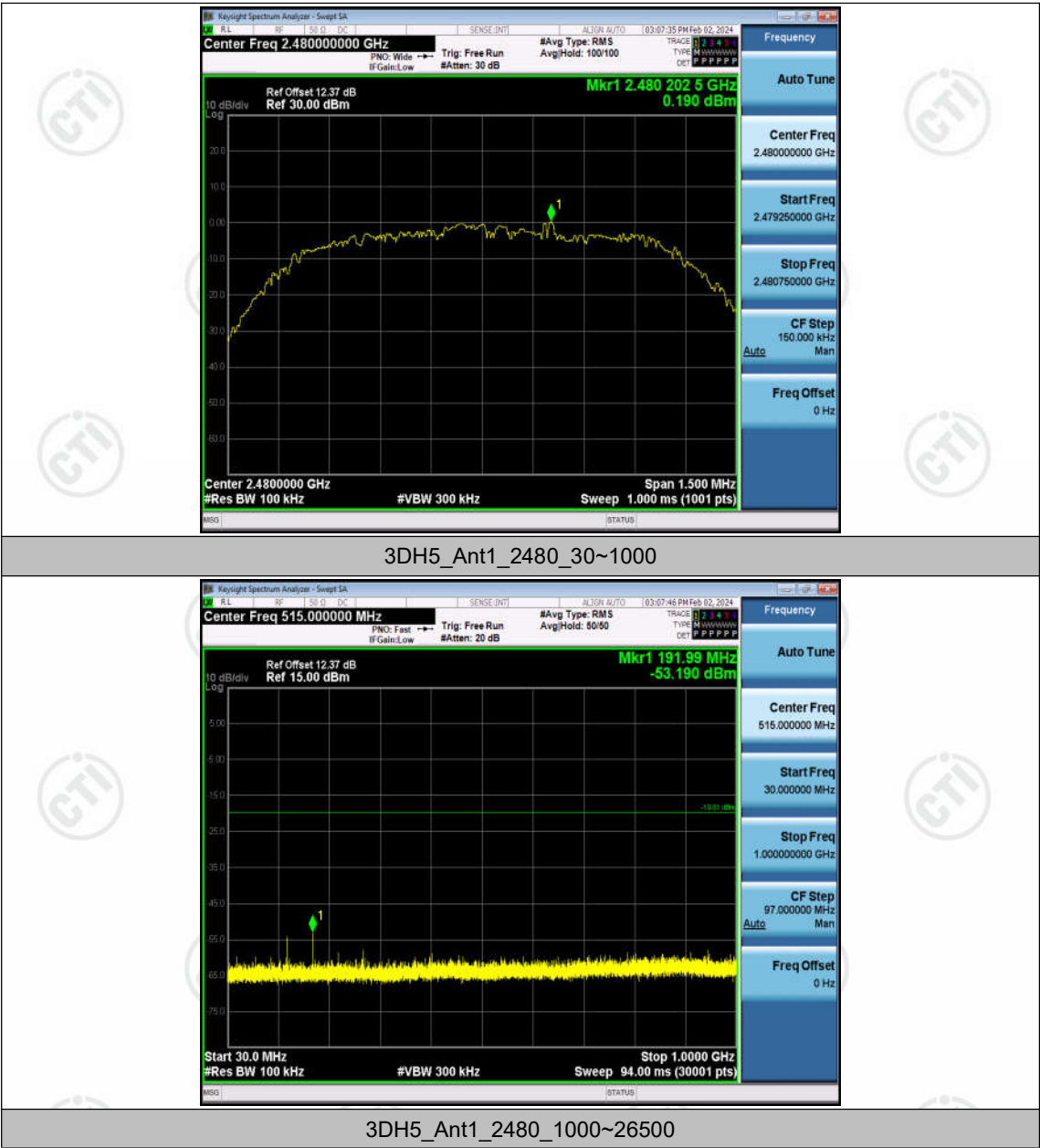


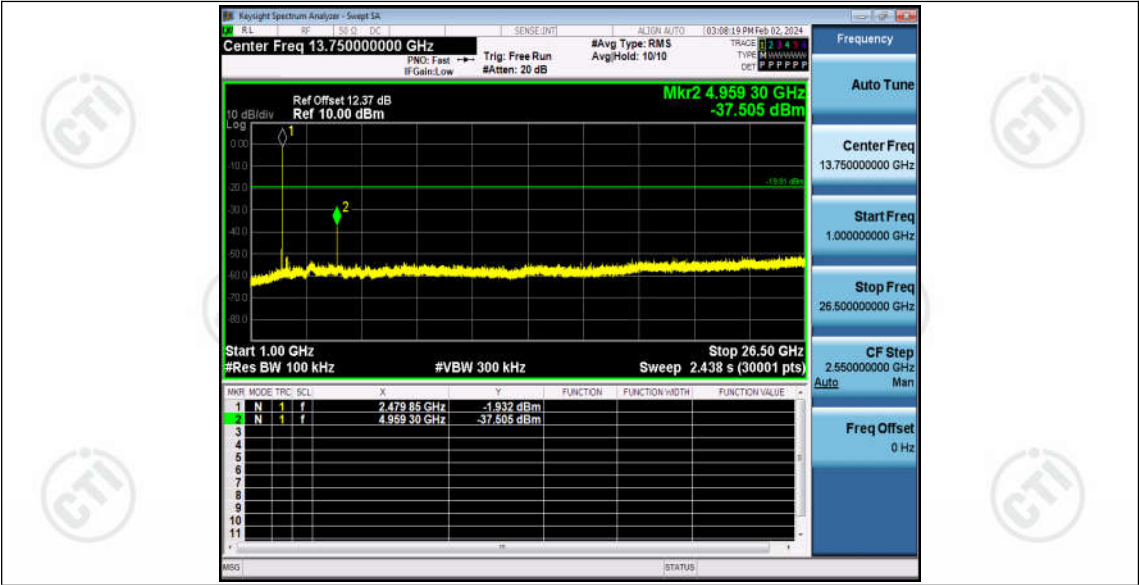










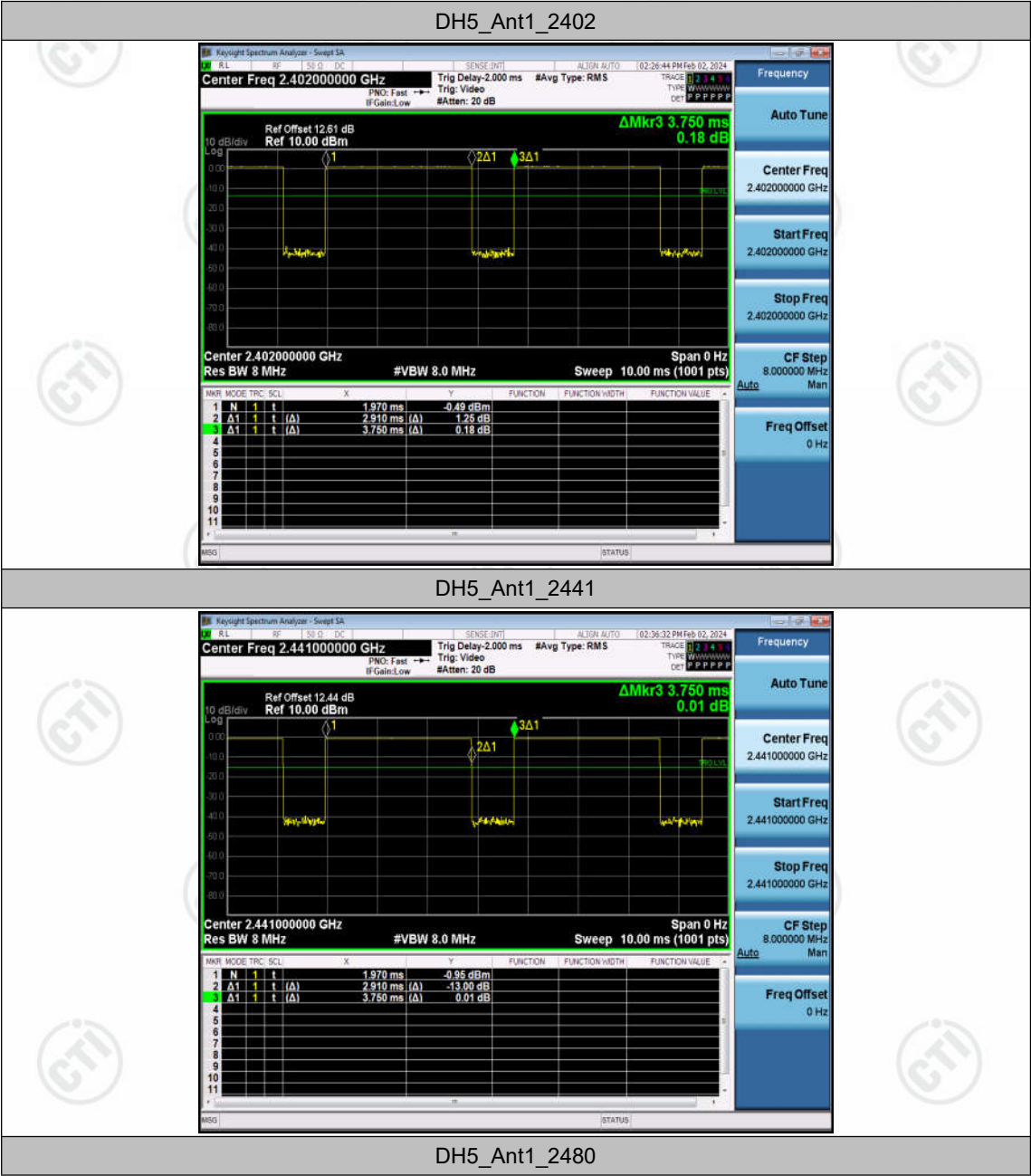


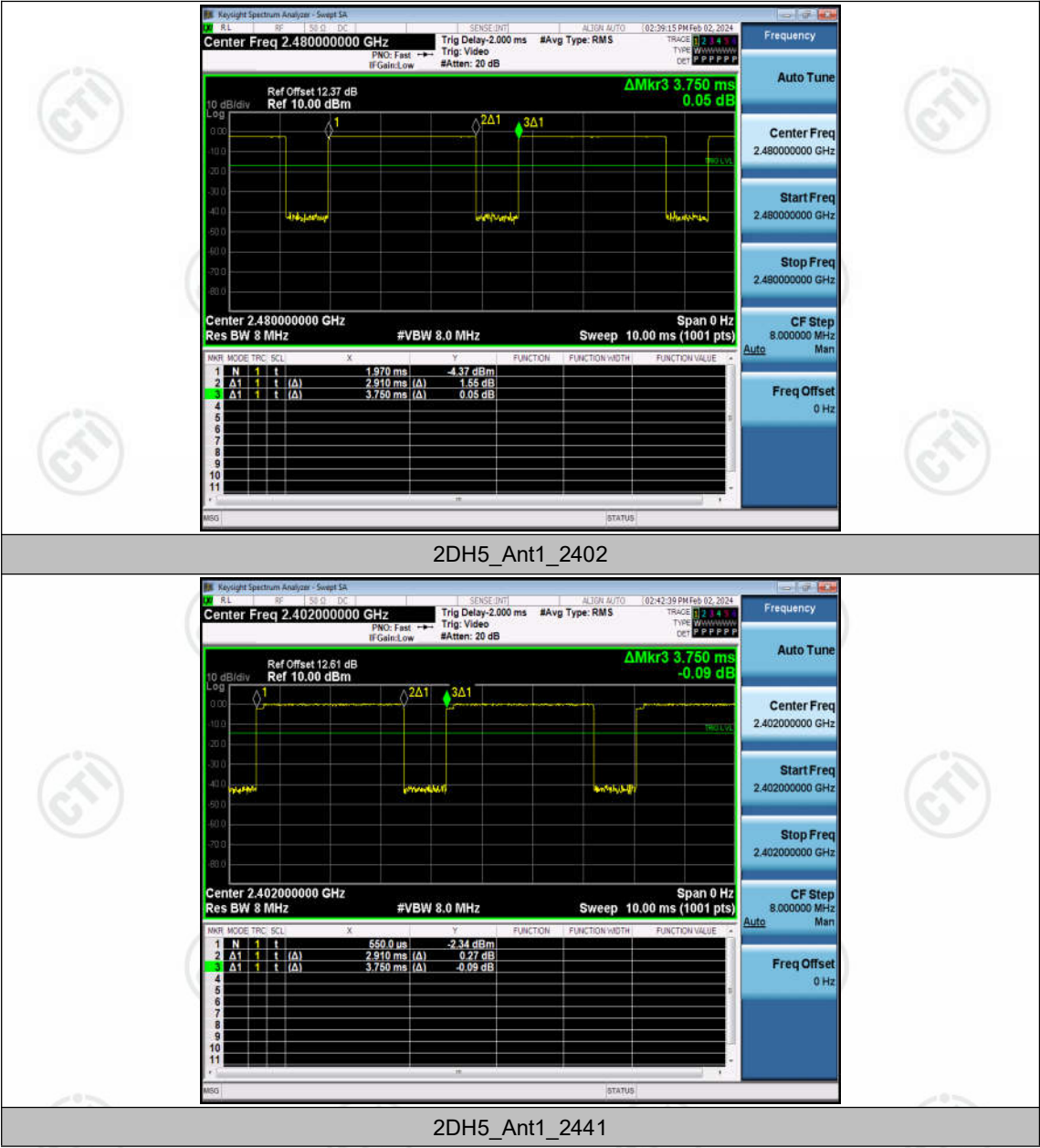
Appendix I: Duty Cycle

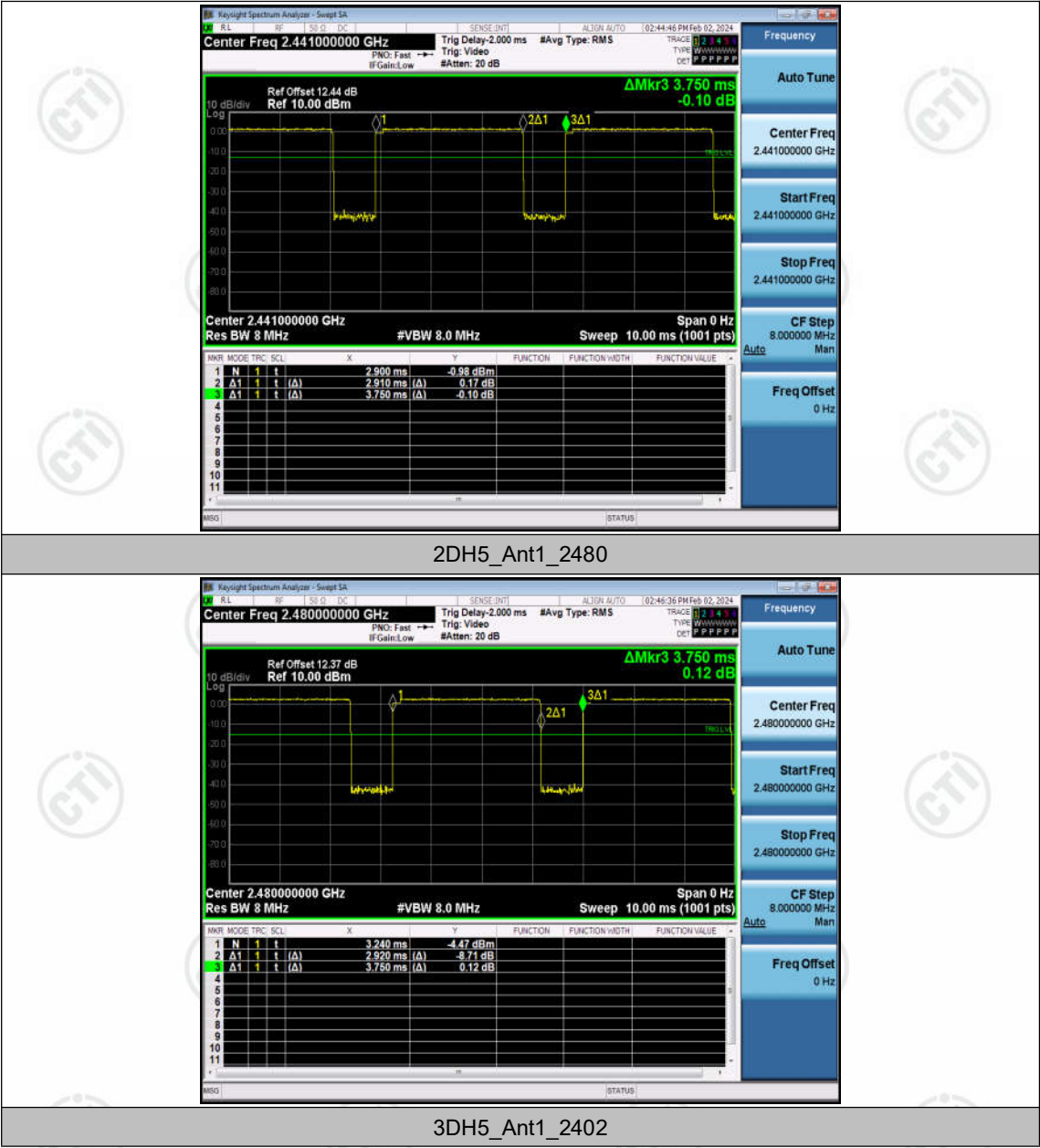
Test Result

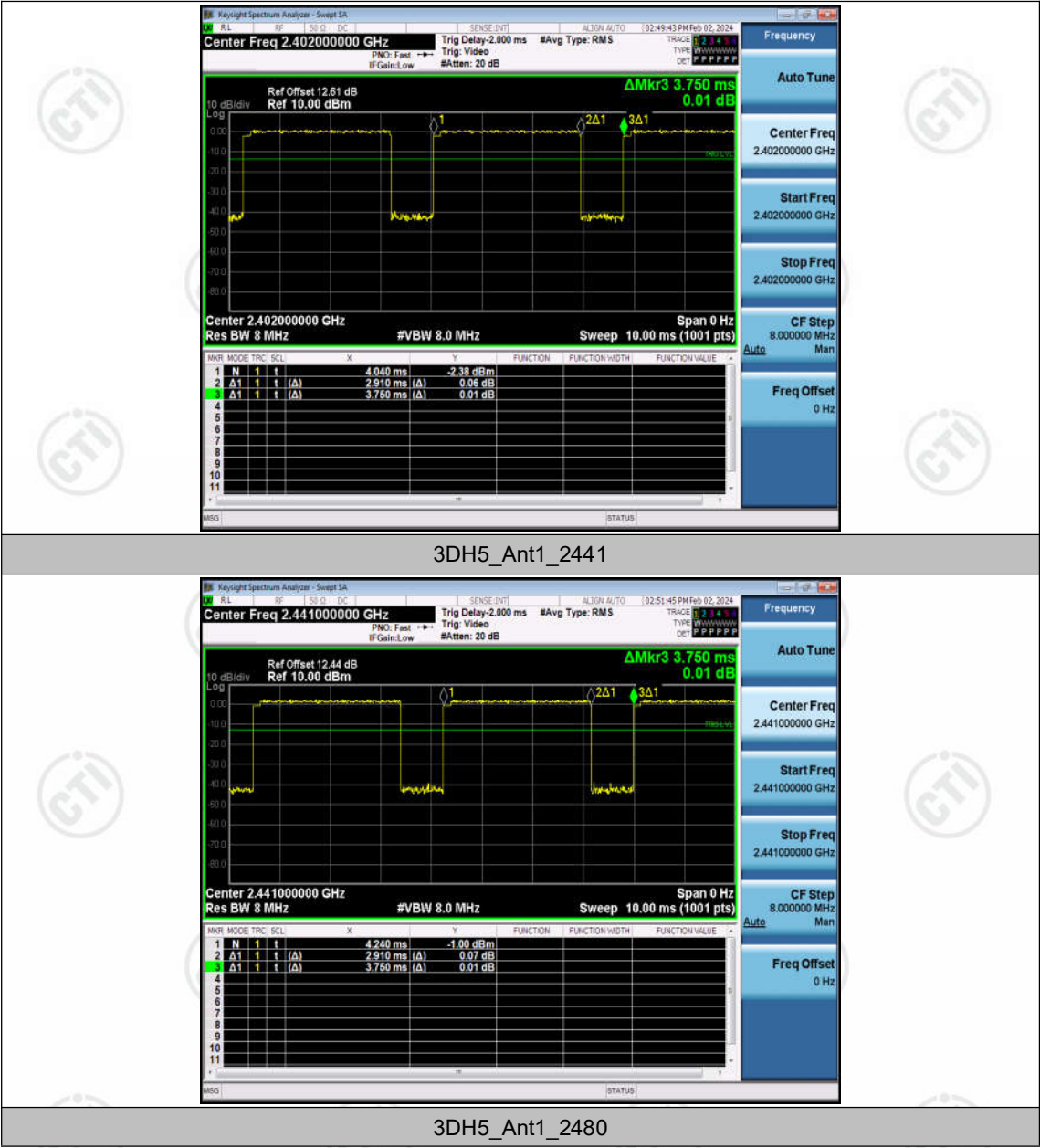
Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.91	3.75	77.60	1.10
		2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.91	3.75	77.60	1.10
		2480	2.92	3.75	77.87	1.09
3DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.91	3.75	77.60	1.10
		2480	2.91	3.75	77.60	1.10

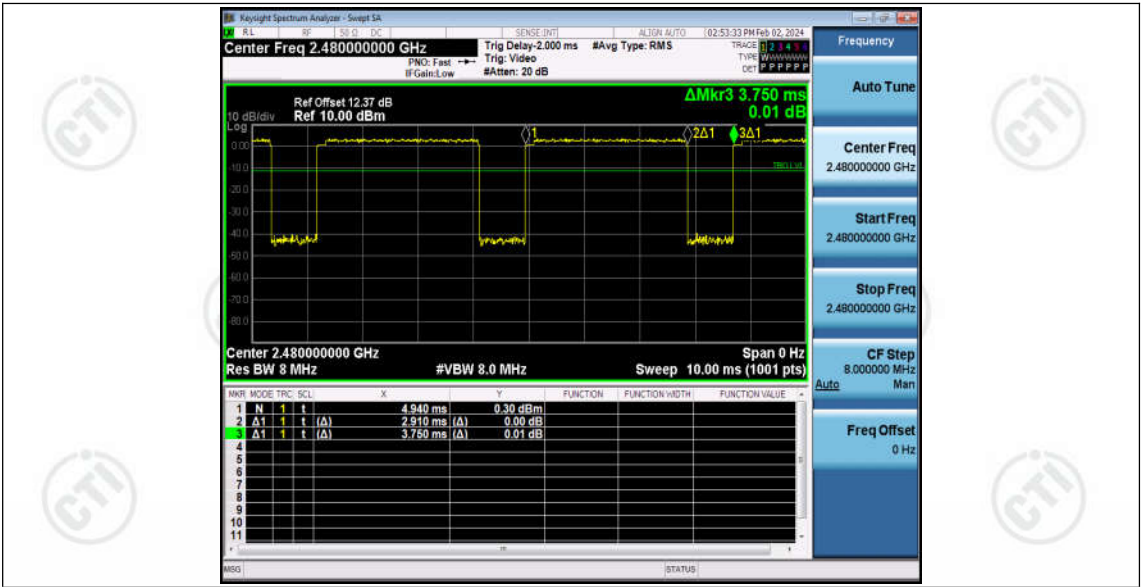
Test Graphs











*** End of Report ***