

Appendix: Bluetooth Classic

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Appendix A: 20dB Emission Bandwidth

Test Result

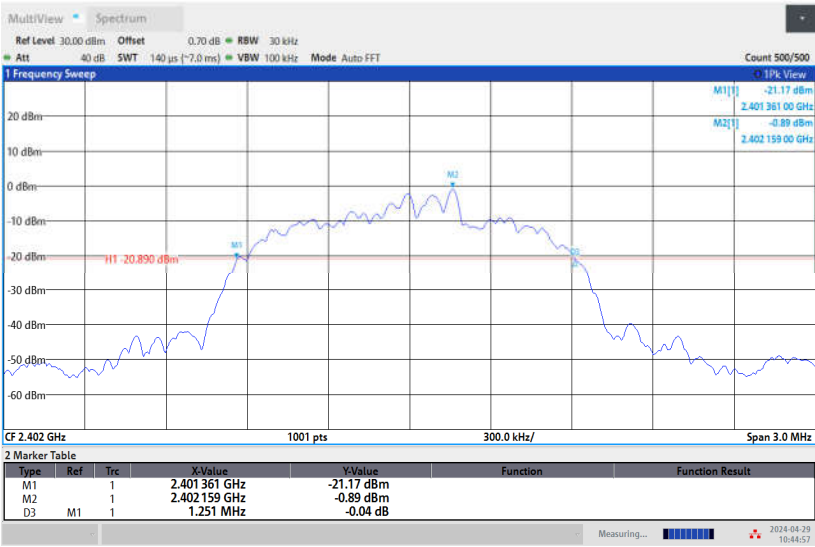
Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.04	2401.47	2402.51	---	---
		2441	1.03	2440.49	2441.52	---	---
		2480	1.03	2479.49	2480.52	---	---
2DH5	Ant1	2402	1.27	2401.37	2402.64	---	---
		2441	1.28	2440.36	2441.65	---	---
		2480	1.31	2479.34	2480.65	---	---
3DH5	Ant1	2402	1.25	2401.36	2402.61	---	---
		2441	1.30	2440.35	2441.65	---	---
		2480	1.27	2479.36	2480.62	---	---

Test Graphs

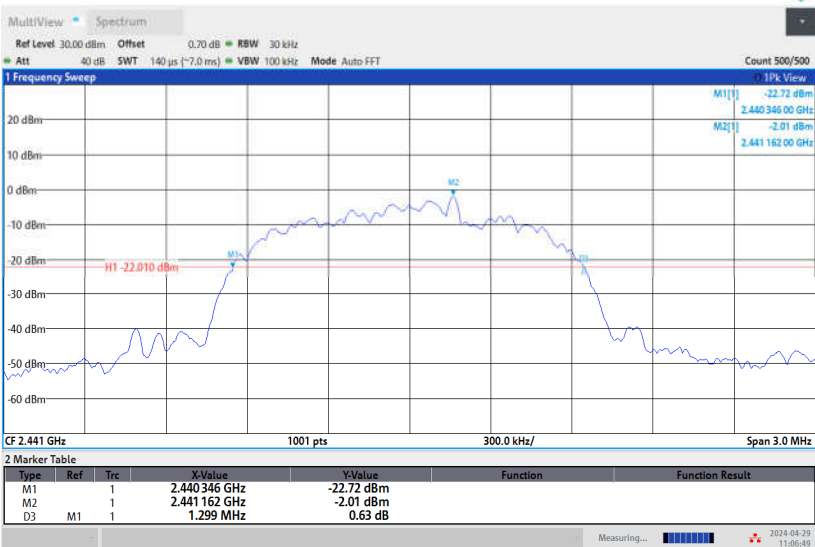








3DH5_Ant1_2402



3DH5_Ant1_2441



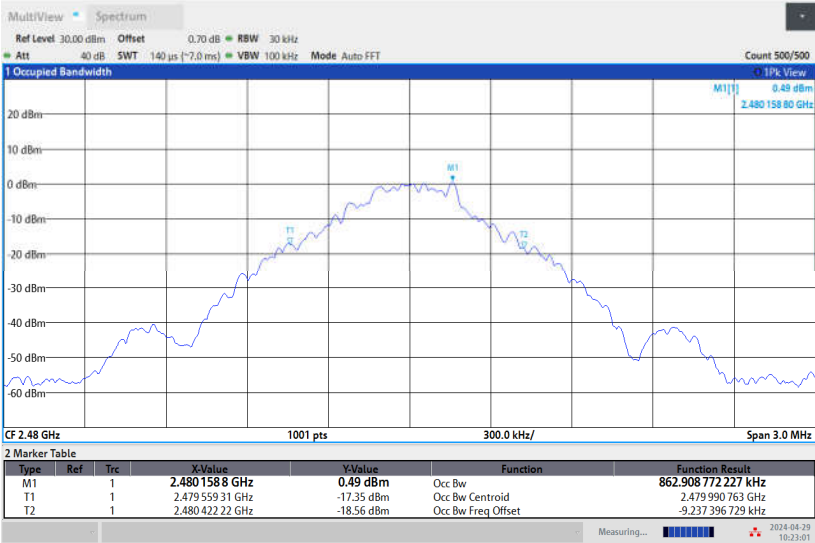
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.899	2401.559	2402.458	---	---
		2441	0.905	2440.544	2441.450	---	---
		2480	0.863	2479.559	2480.422	---	---
2DH5	Ant1	2402	1.153	2401.416	2402.569	---	---
		2441	1.151	2440.417	2441.568	---	---
		2480	1.167	2479.409	2480.577	---	---
3DH5	Ant1	2402	1.153	2401.422	2402.575	---	---
		2441	1.175	2440.409	2441.584	---	---
		2480	1.159	2479.418	2480.577	---	---

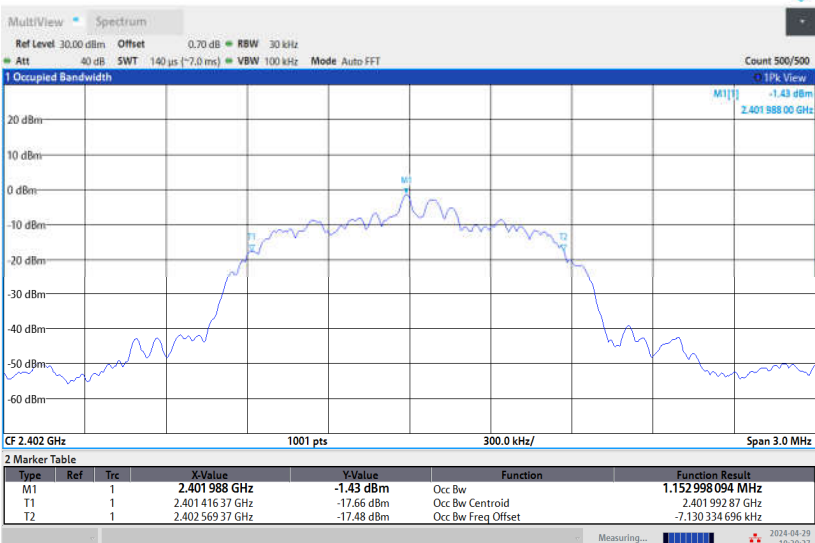
Test Graphs





10:23:01 AM 04/29/2024

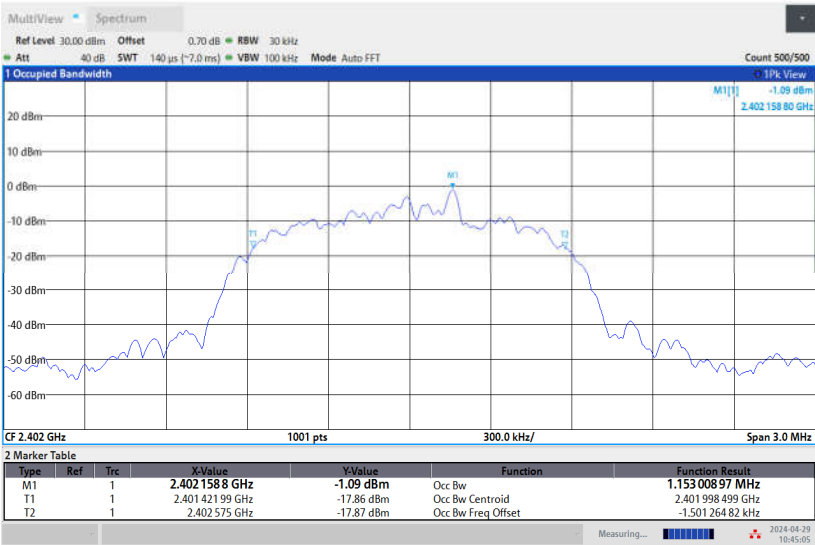
DH5_Ant1_2480



10:30:28 AM 04/29/2024

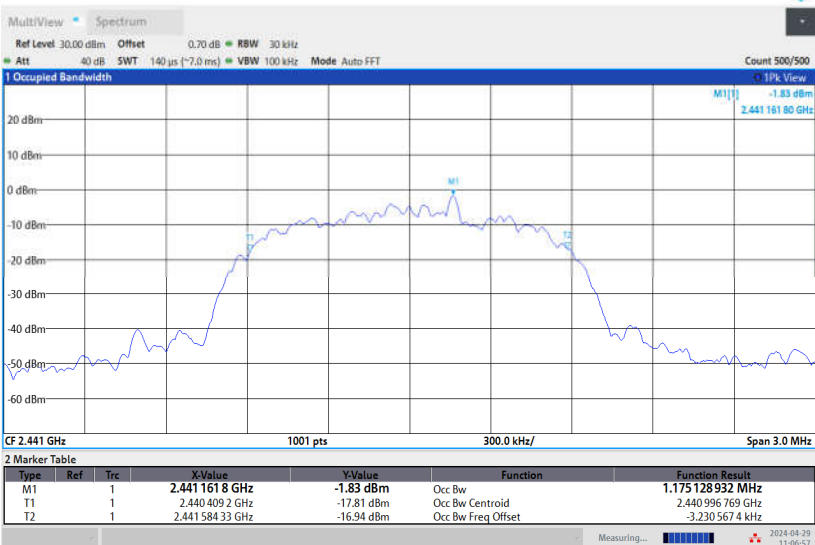
2DH5_Ant1_2402





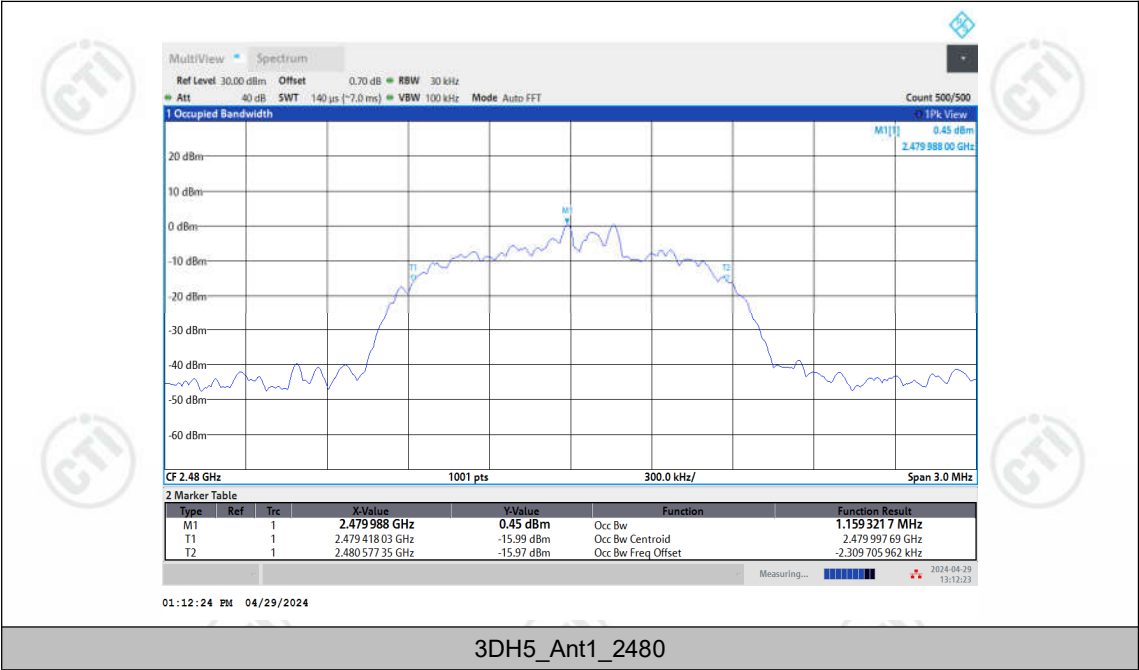
10:45:06 AM 04/29/2024

3DH5_Ant1_2402



11:06:58 AM 04/29/2024

3DH5_Ant1_2441

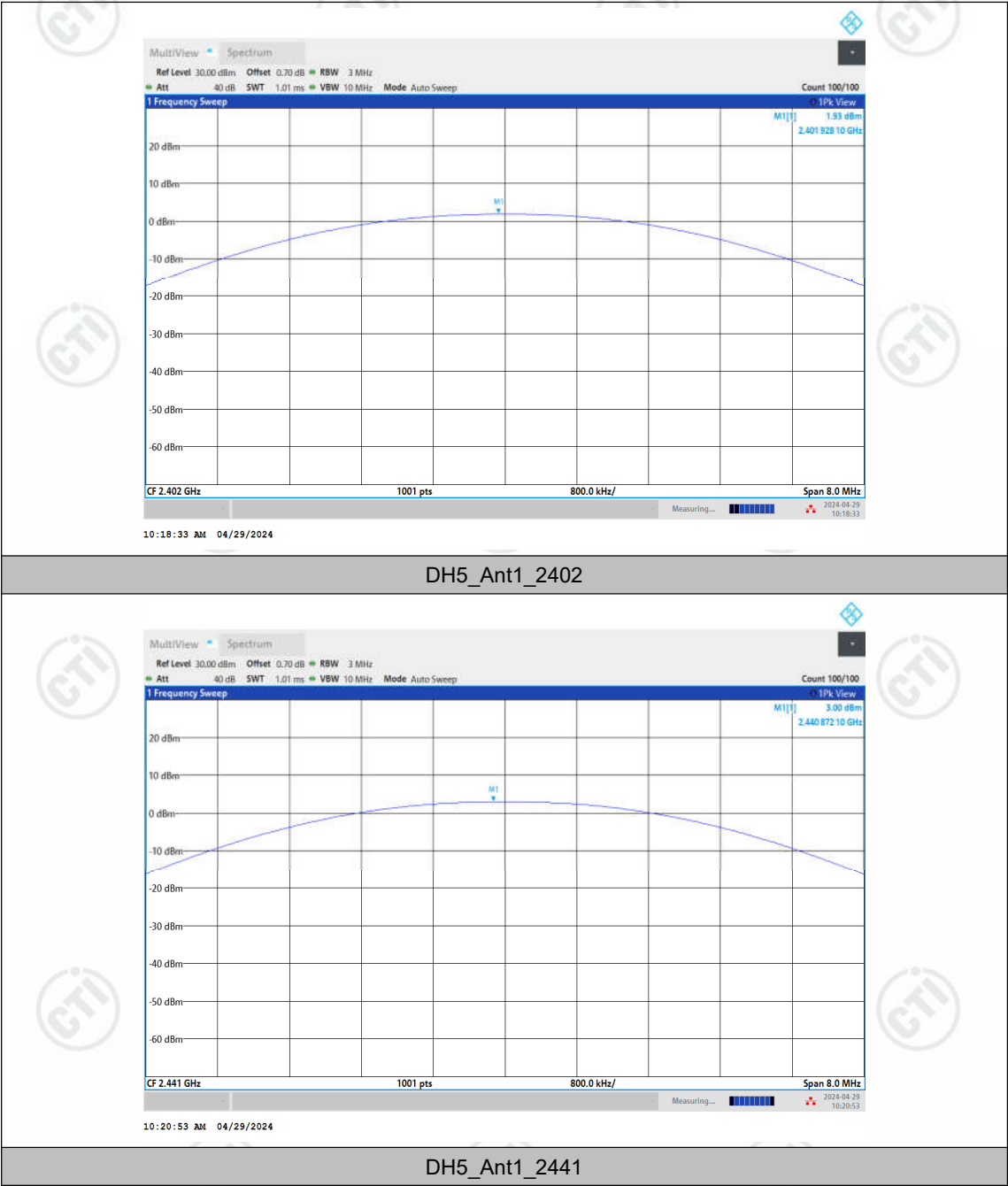


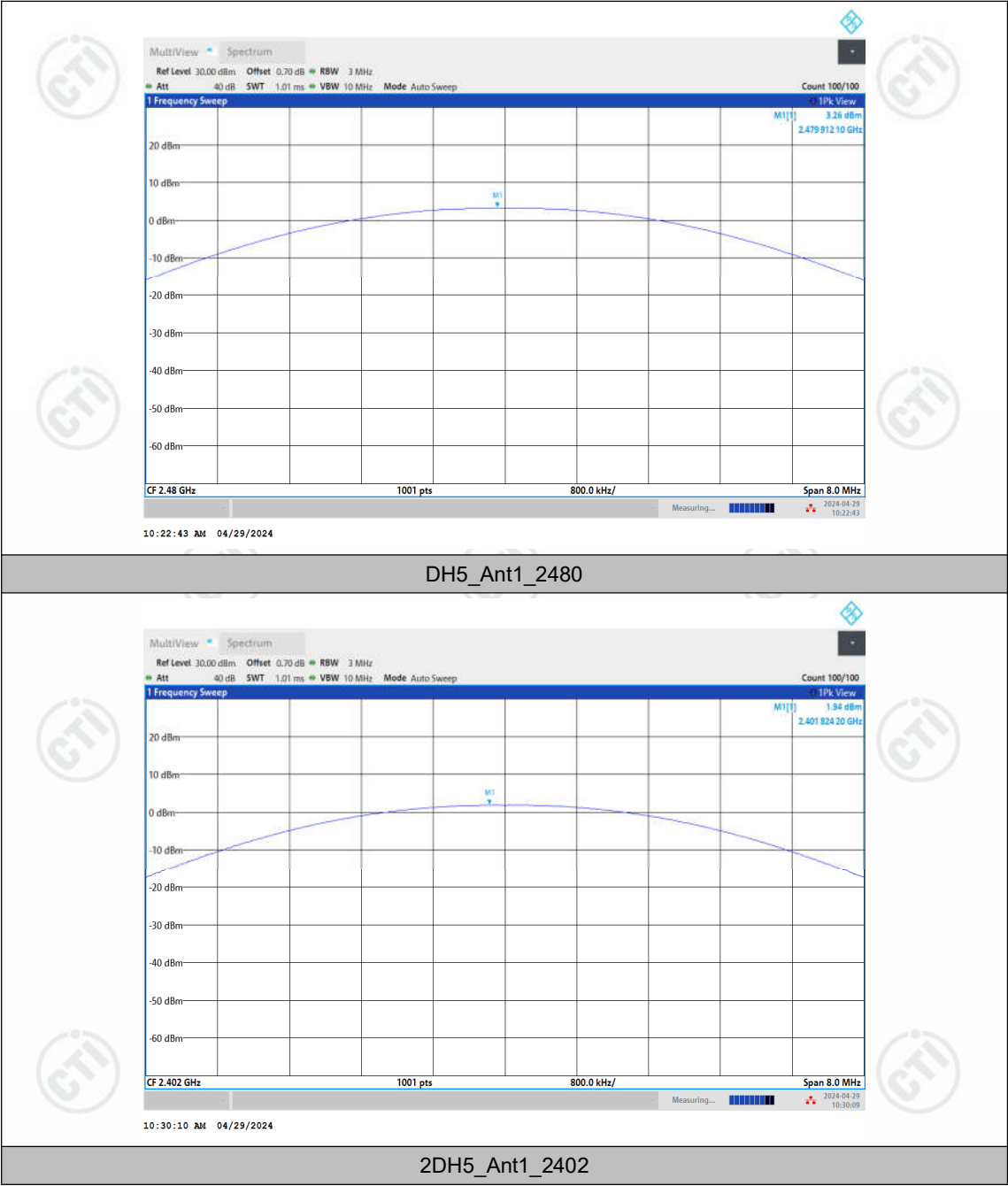
Appendix C: Maximum conducted output power

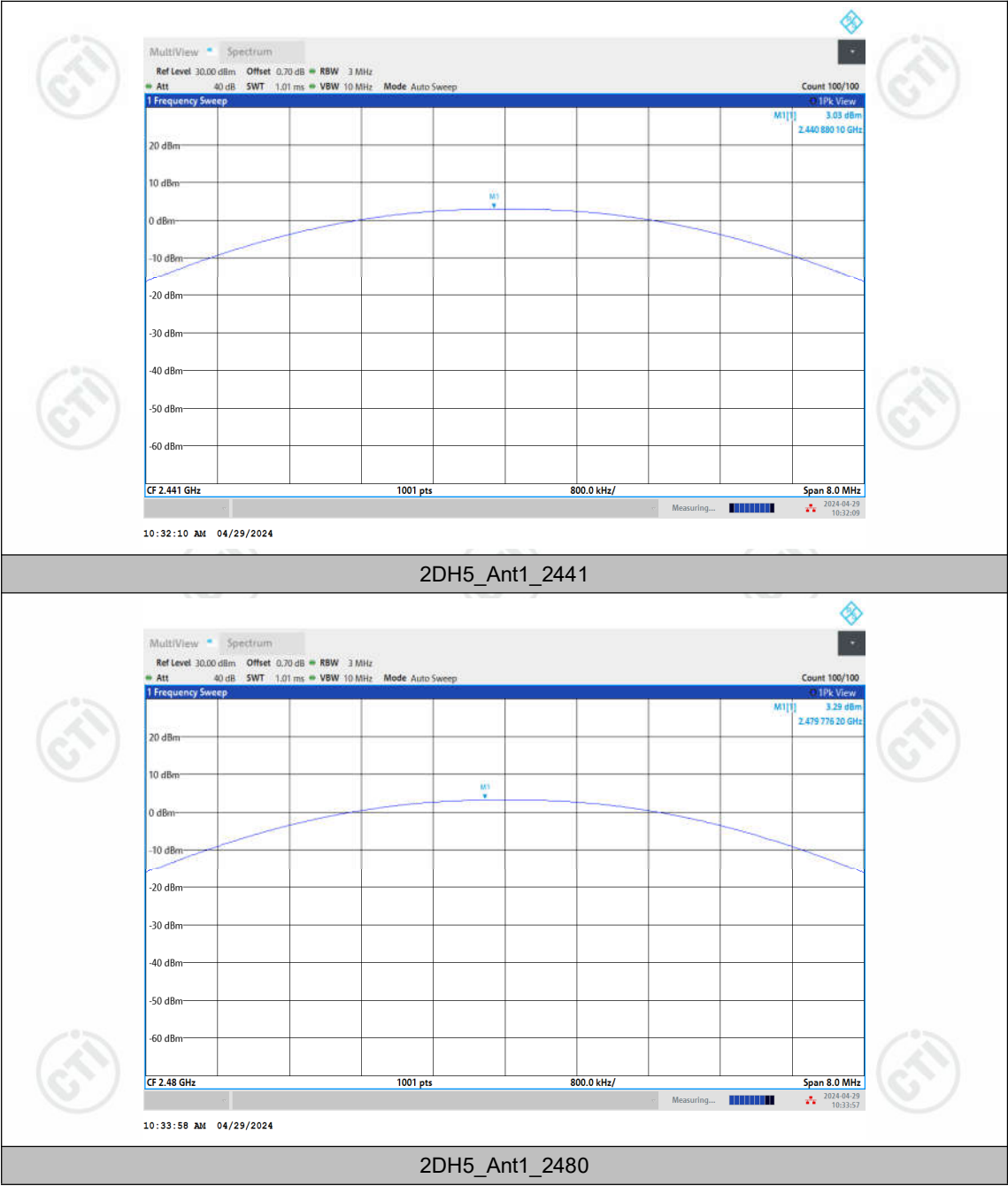
Test Result Peak

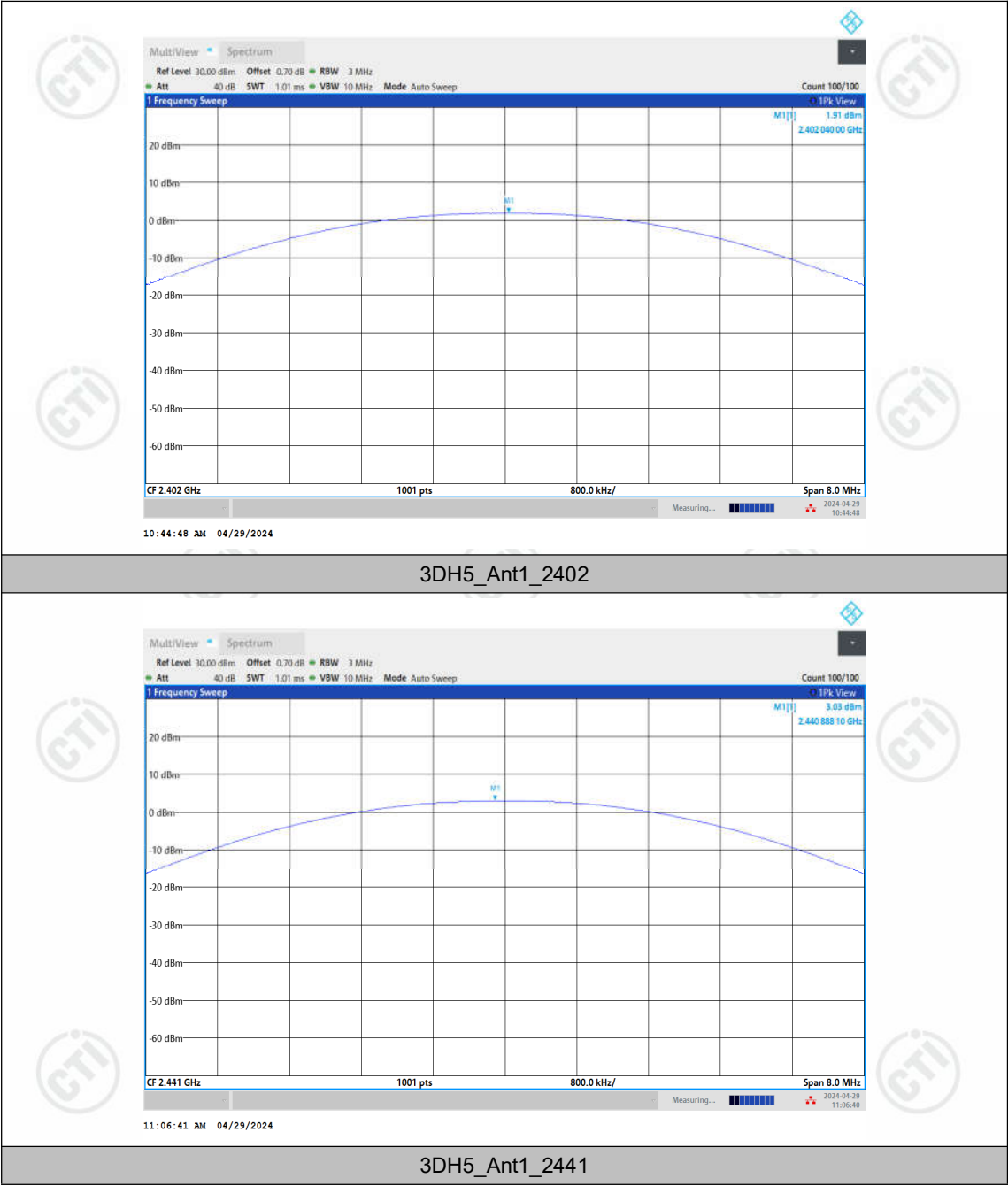
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.93	≤30	PASS
		2441	3	≤20.97	PASS
		2480	3.26	≤20.97	PASS
2DH5	Ant1	2402	1.94	≤30	PASS
		2441	3.03	≤20.97	PASS
		2480	3.29	≤20.97	PASS
3DH5	Ant1	2402	1.91	≤30	PASS
		2441	3.03	≤20.97	PASS
		2480	3.37	≤20.97	PASS

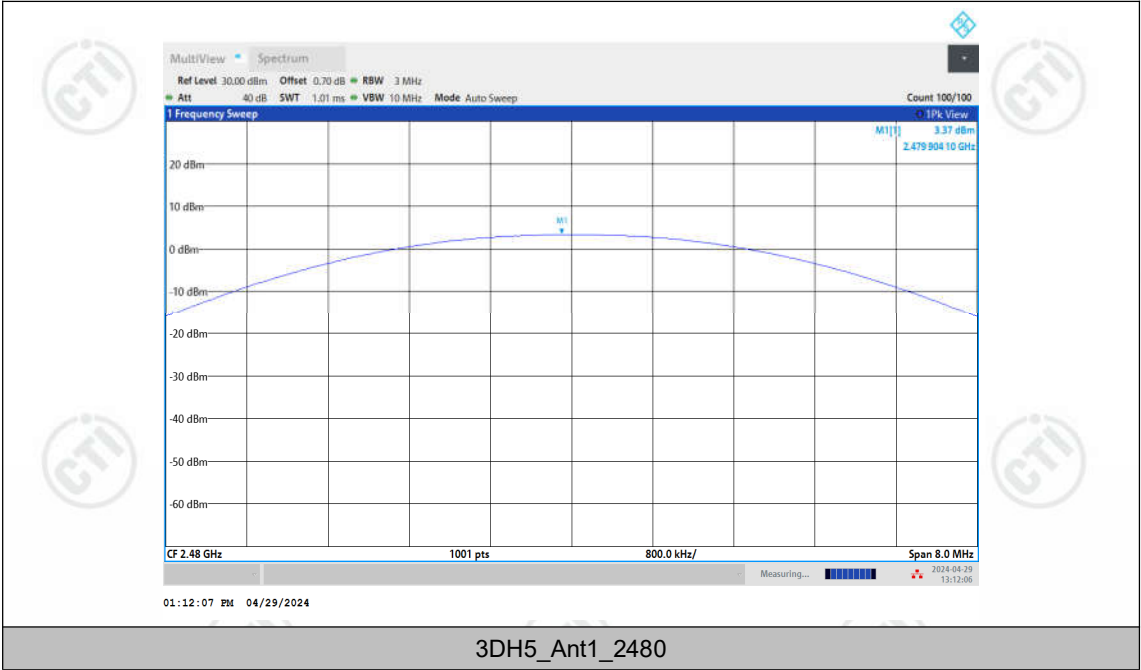
Test Graphs









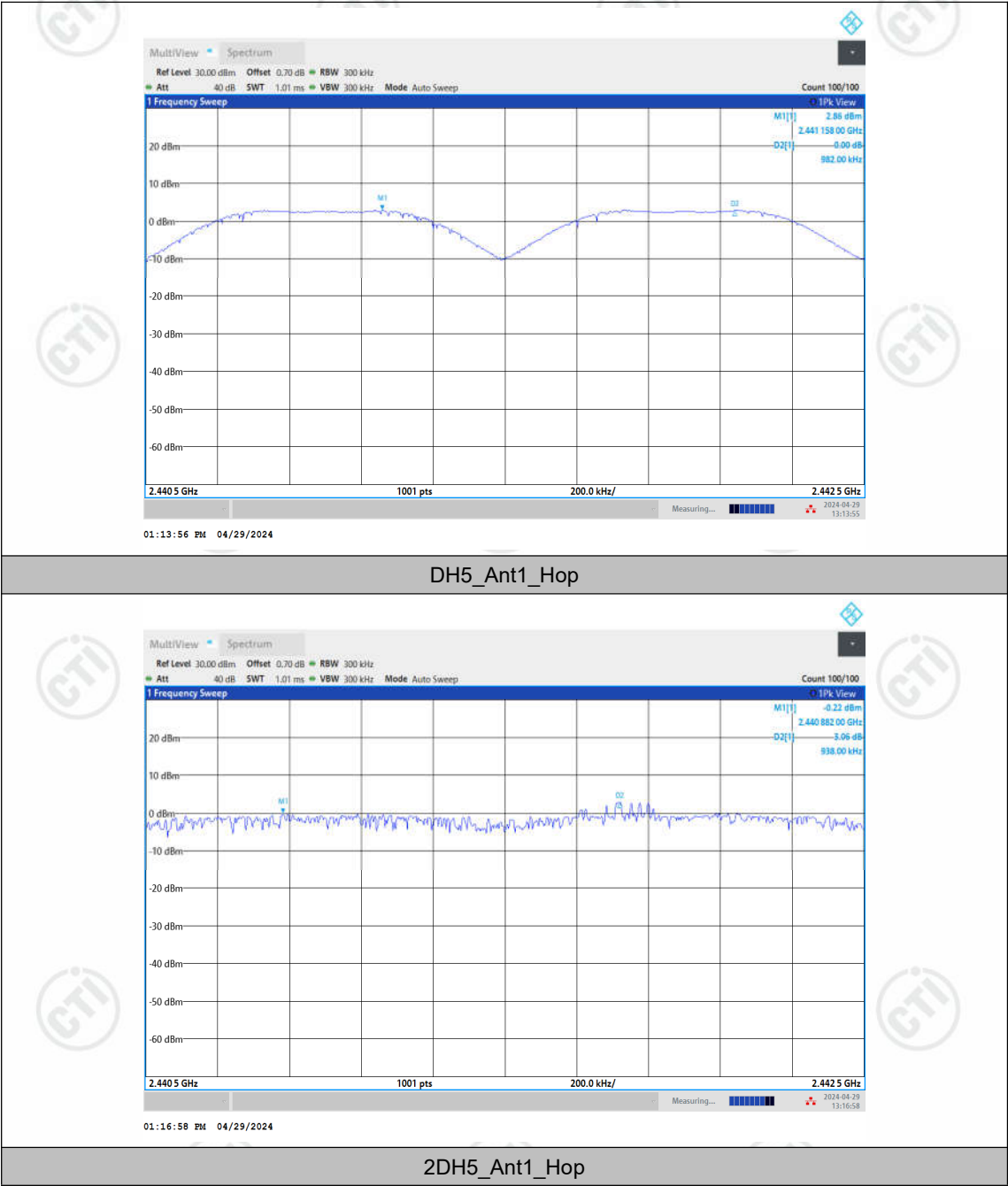


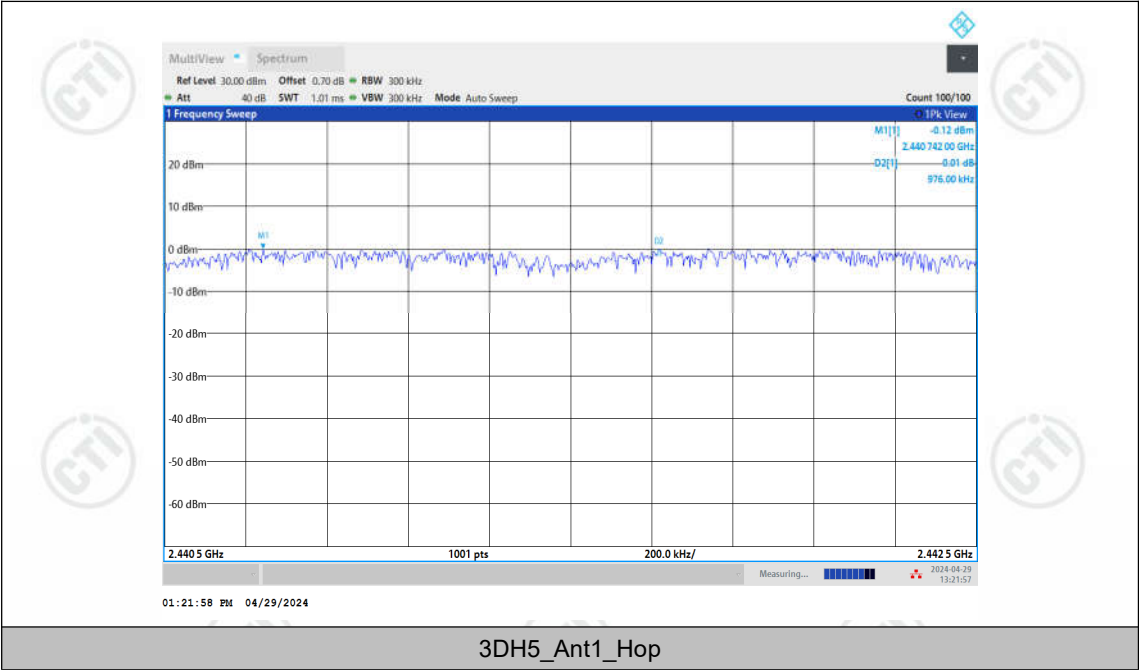
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.982	≥0.693	PASS
2DH5	Ant1	Hop	0.938	≥0.873	PASS
3DH5	Ant1	Hop	0.976	≥0.867	PASS

Test Graphs



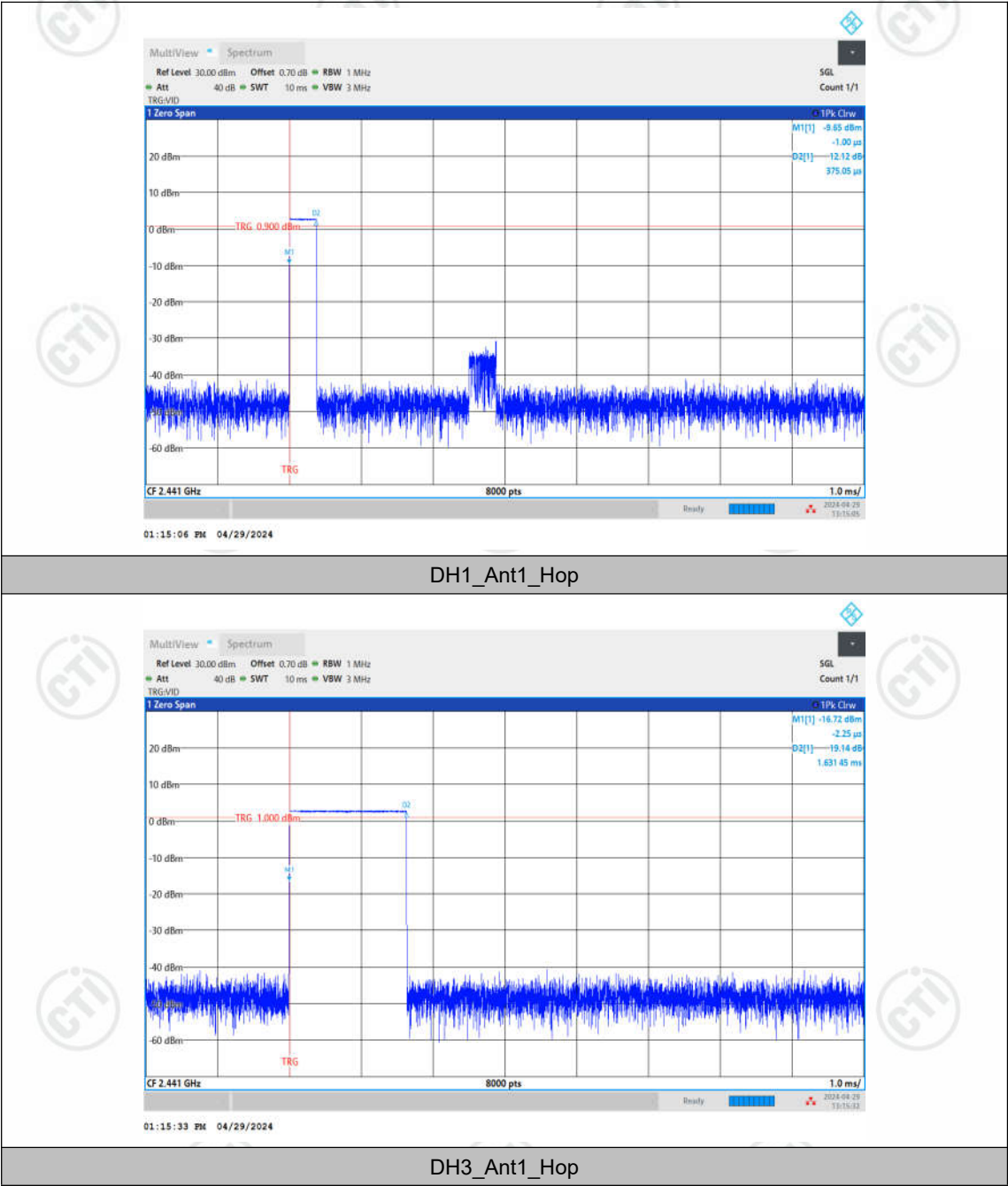


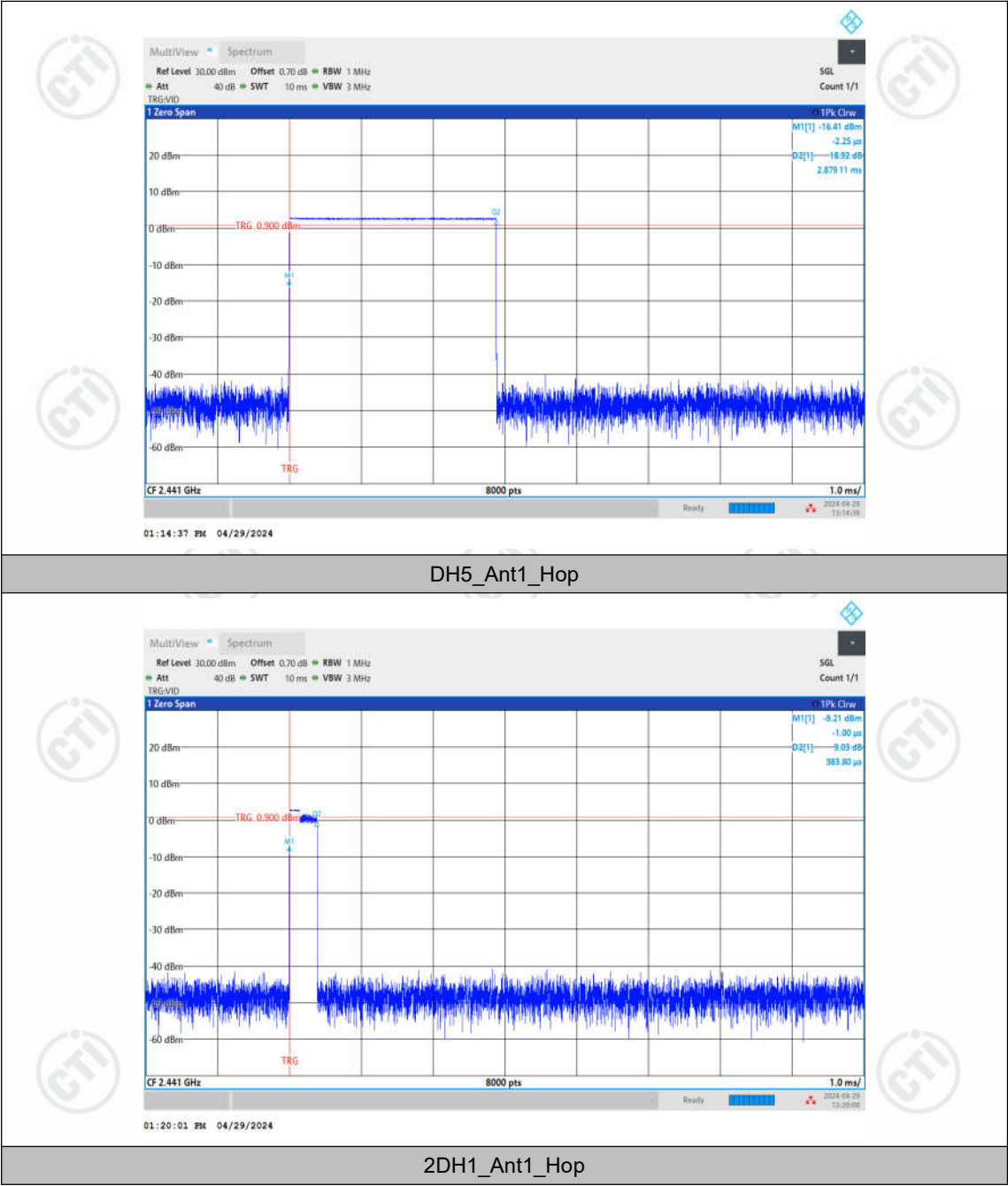
Appendix E: Time of occupancy

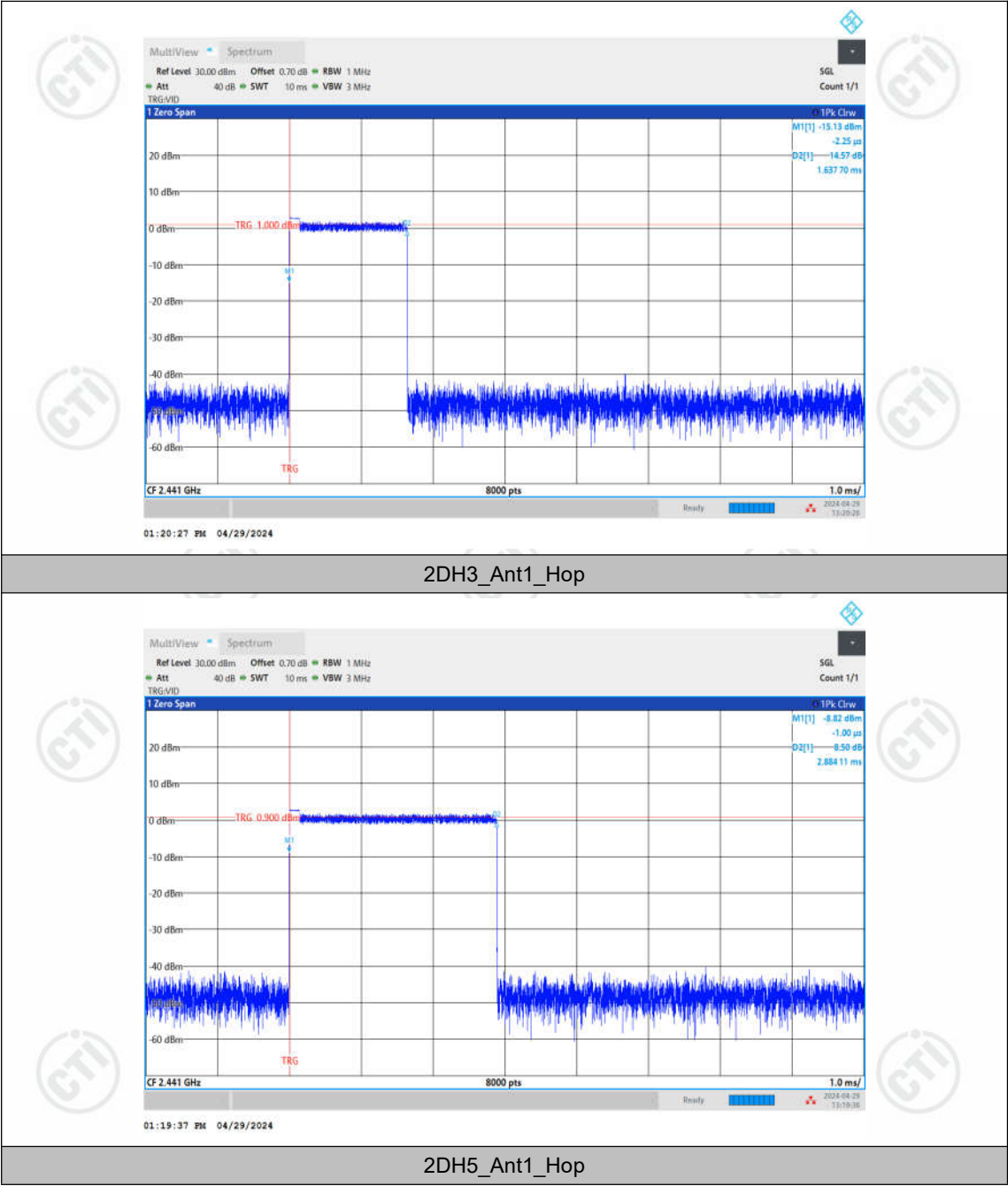
Test Result

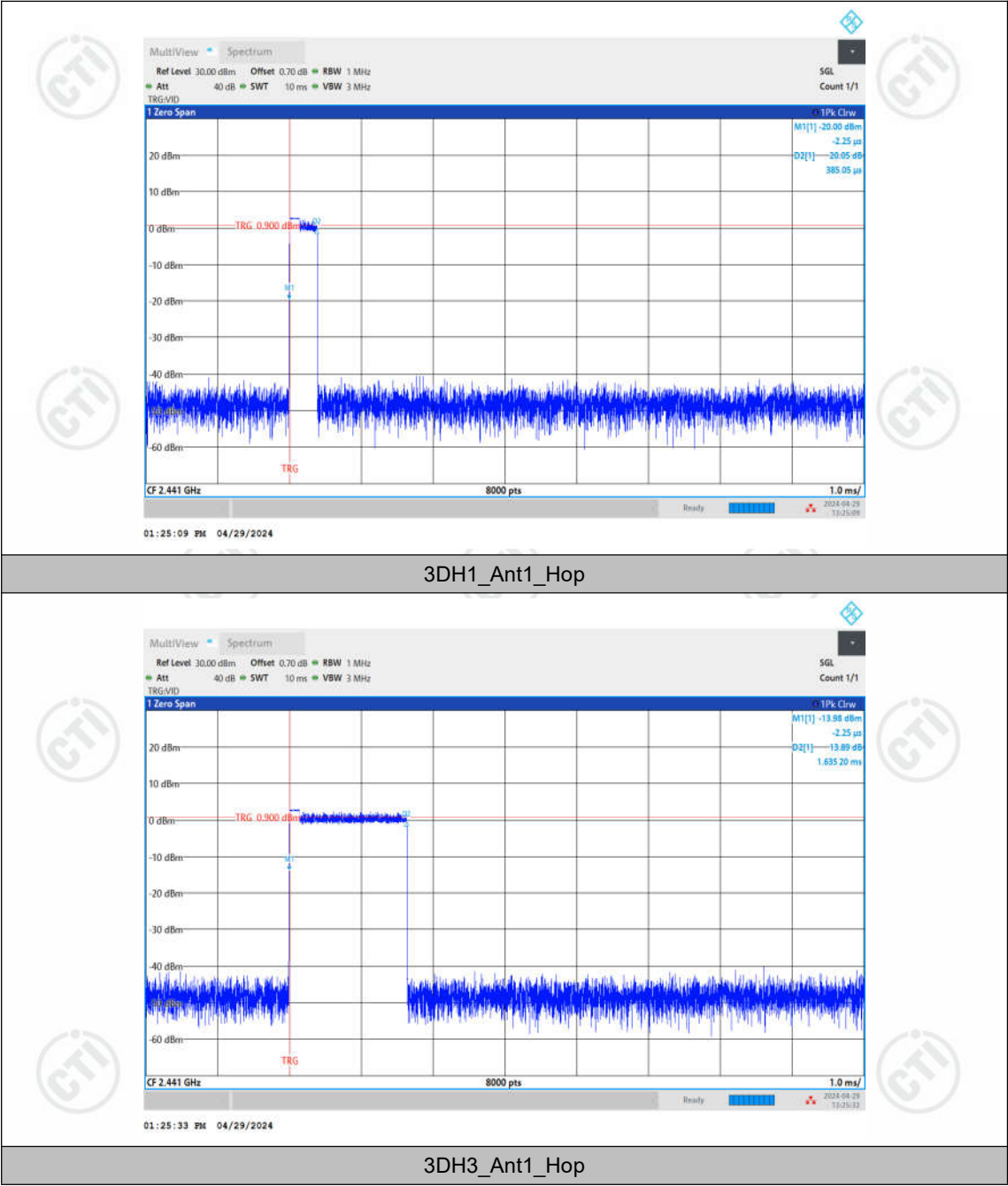
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.39	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

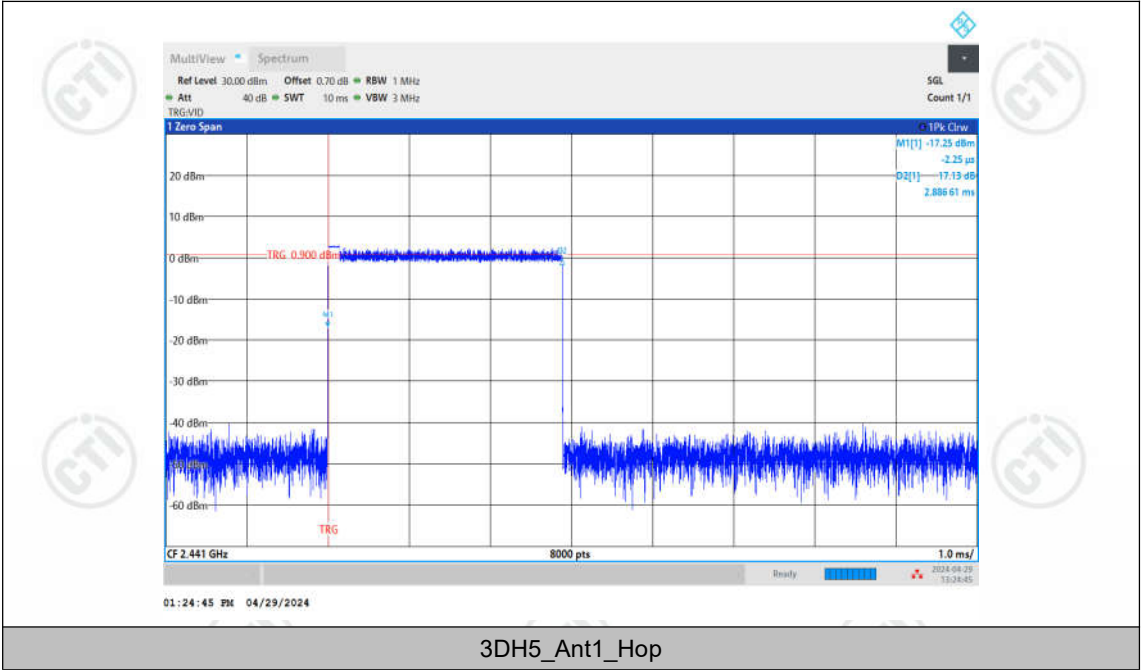
Test Graphs









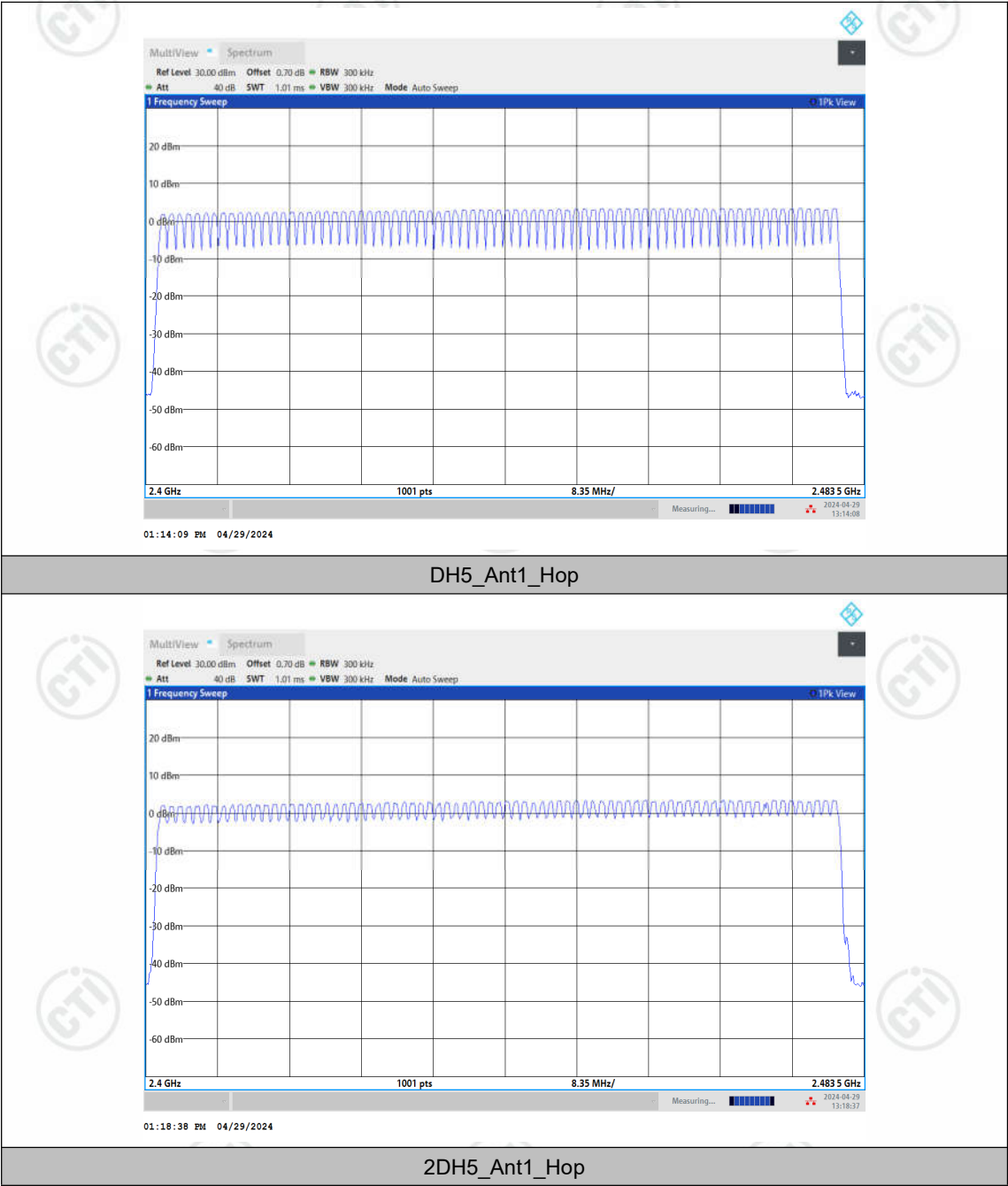


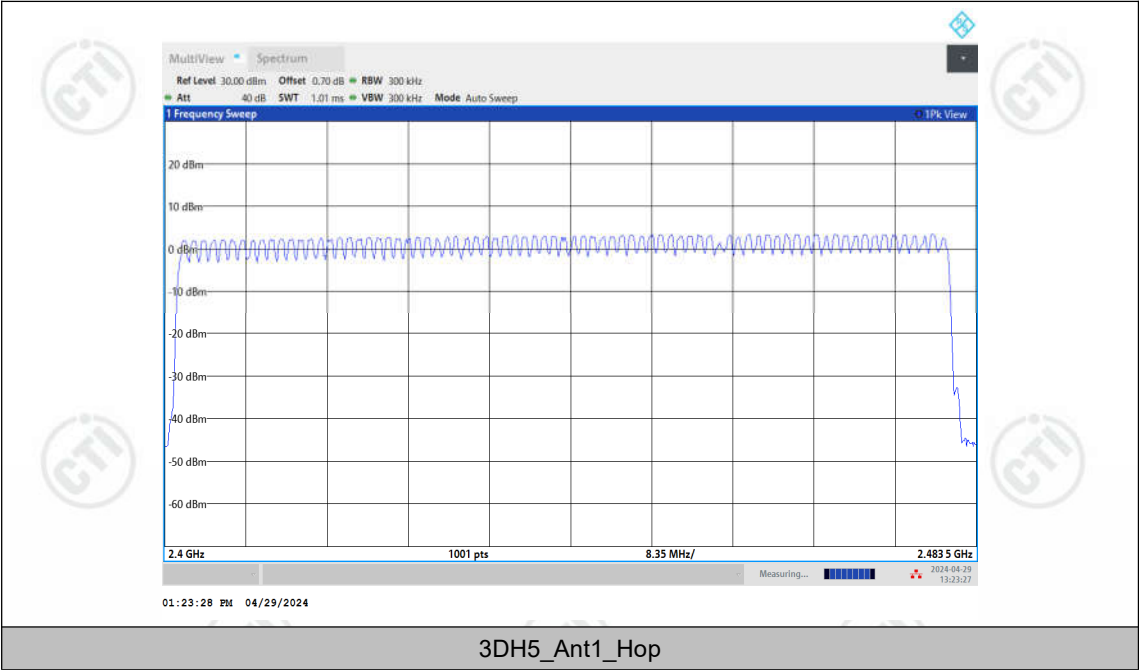
Appendix F: Number of hopping channels

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



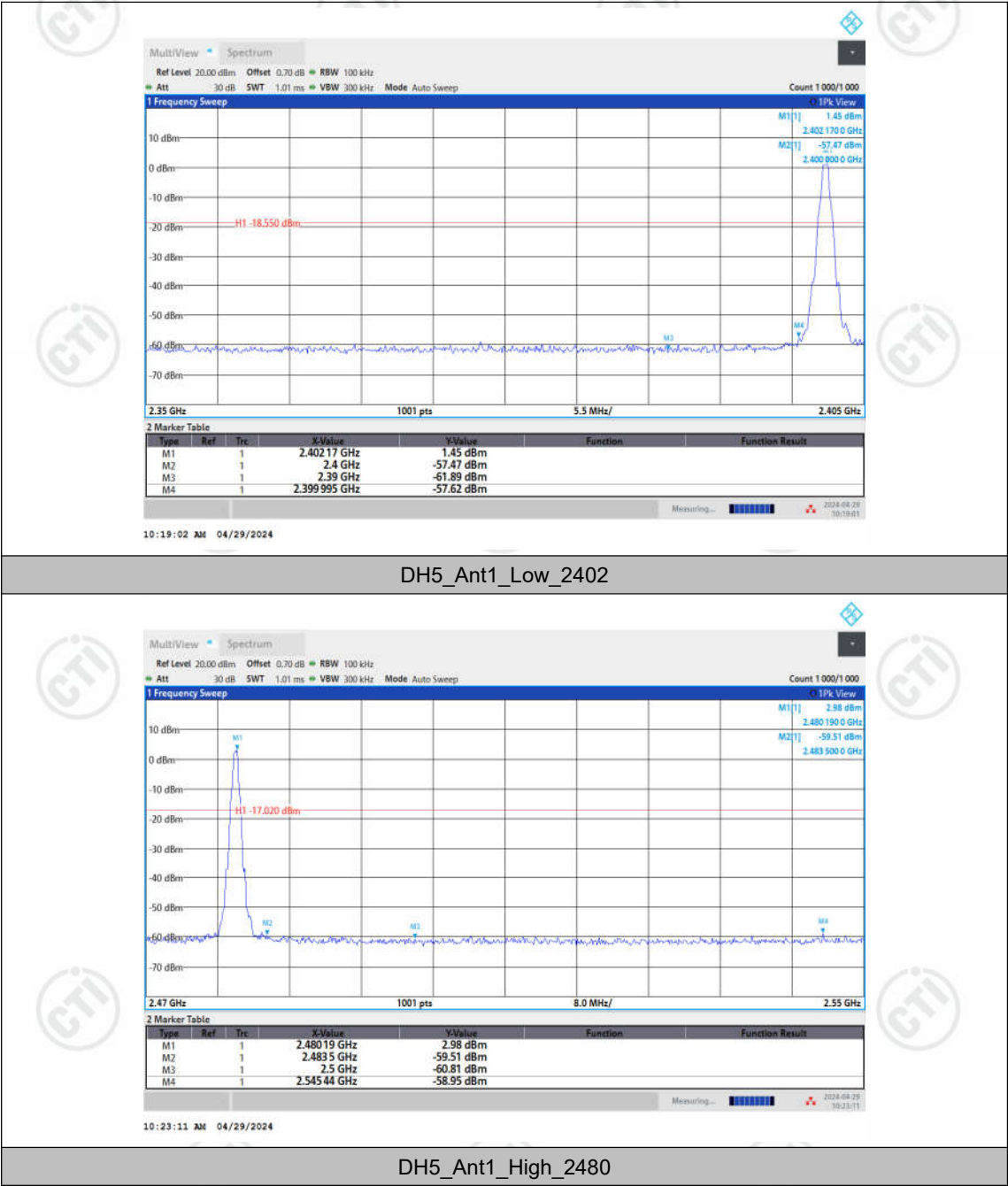


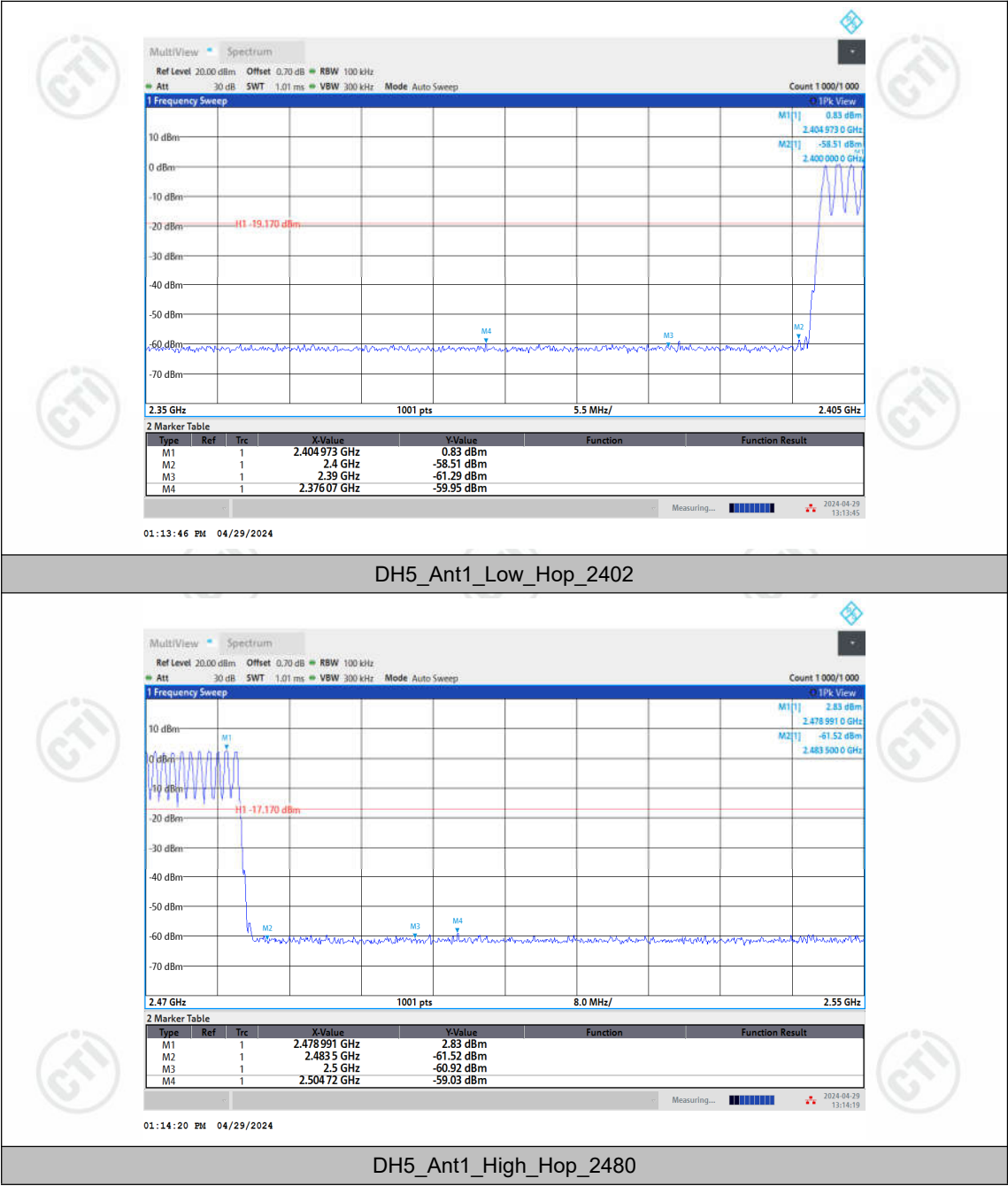
Appendix G: Band edge measurements

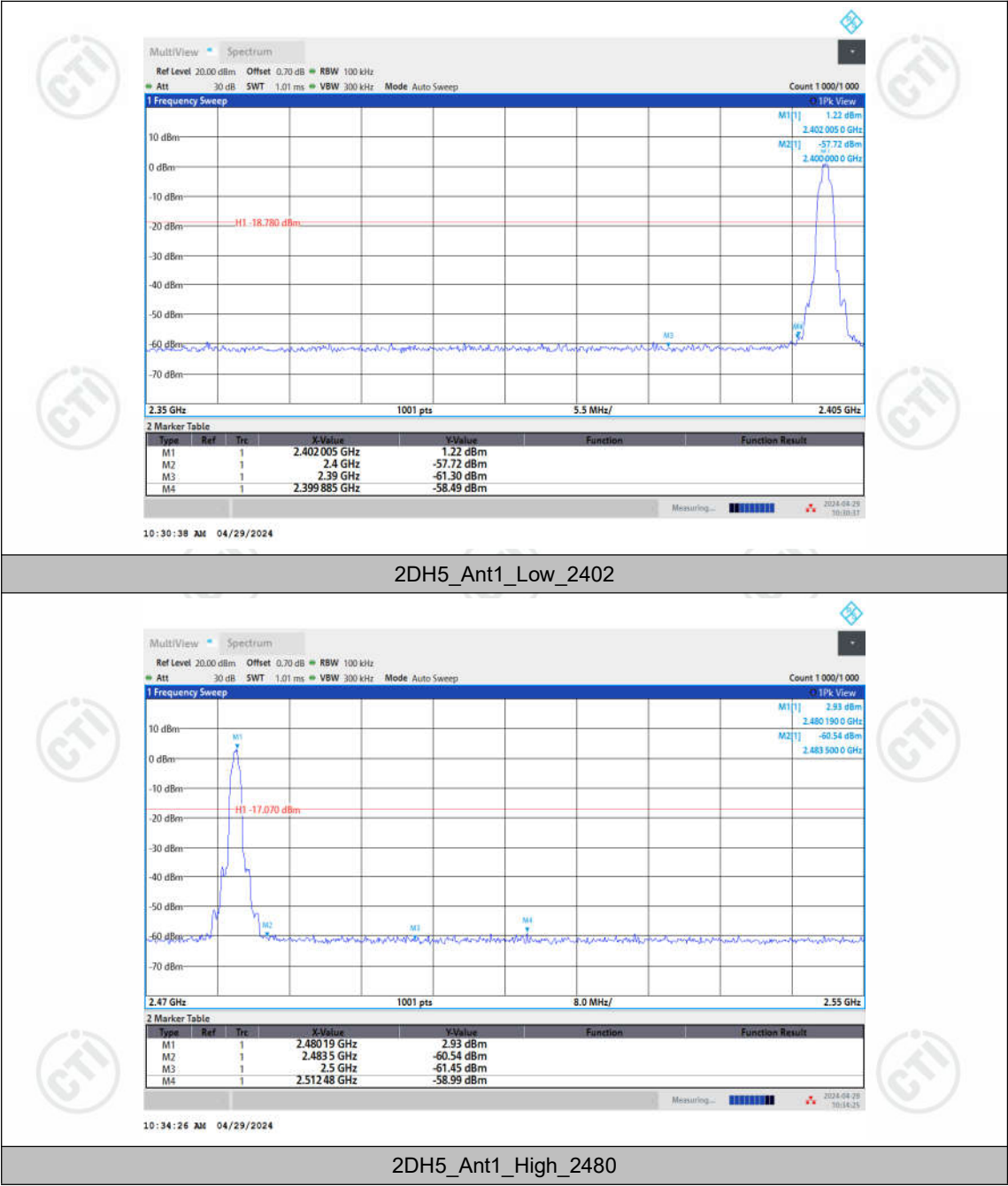
Test Result

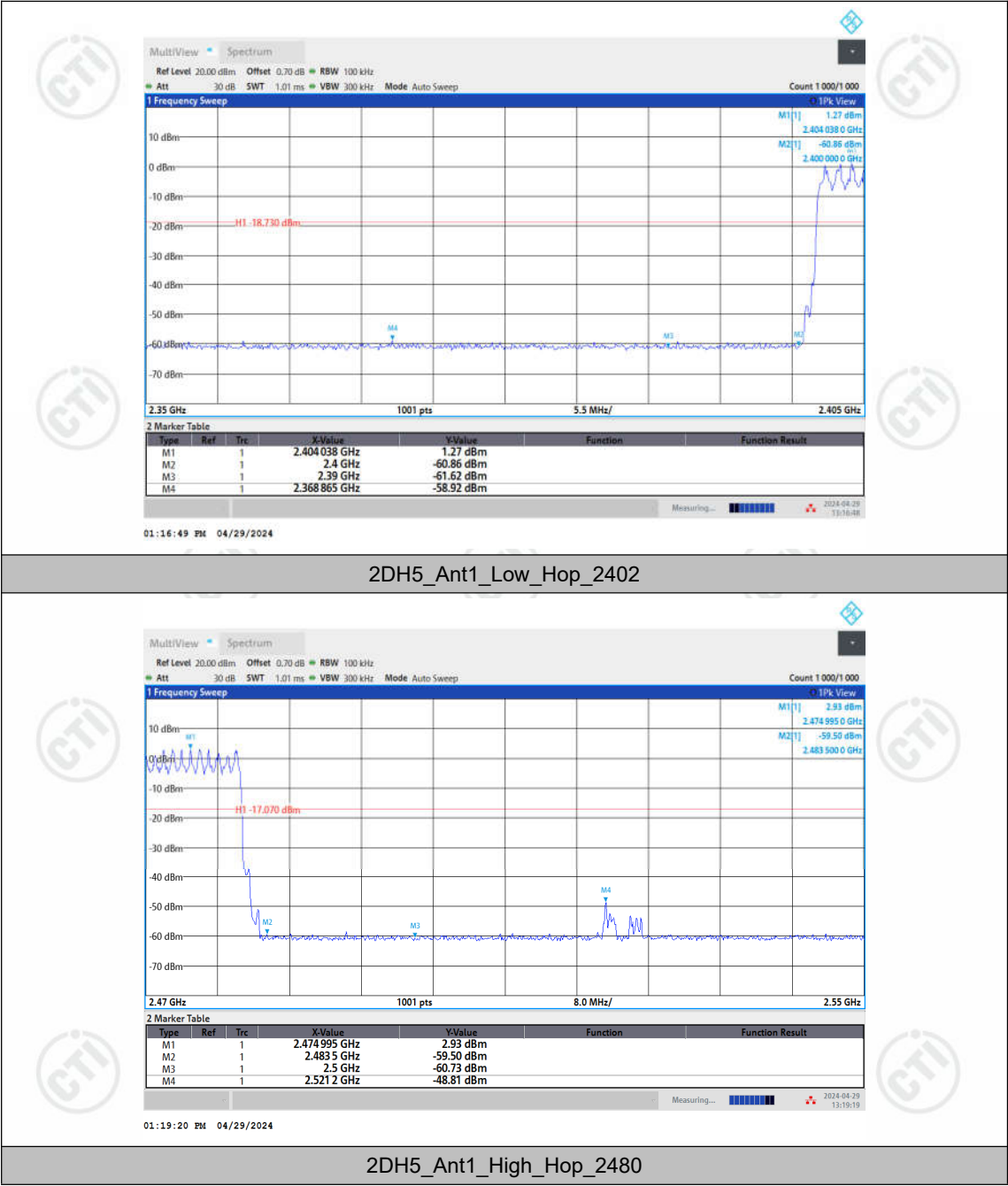
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.45	-57.62	≤-18.55	PASS
		High	2480	2.98	-58.95	≤-17.02	PASS
		Low	Hop_2402	0.83	-59.95	≤-19.17	PASS
		High	Hop_2480	2.83	-59.03	≤-17.17	PASS
2DH5	Ant1	Low	2402	1.22	-58.49	≤-18.78	PASS
		High	2480	2.93	-58.99	≤-17.07	PASS
		Low	Hop_2402	1.27	-58.92	≤-18.73	PASS
		High	Hop_2480	2.93	-48.81	≤-17.07	PASS
3DH5	Ant1	Low	2402	1.41	-58.83	≤-18.59	PASS
		High	2480	3.08	-58.54	≤-16.92	PASS
		Low	Hop_2402	1.34	-58.32	≤-18.66	PASS
		High	Hop_2480	3.07	-58.33	≤-16.93	PASS

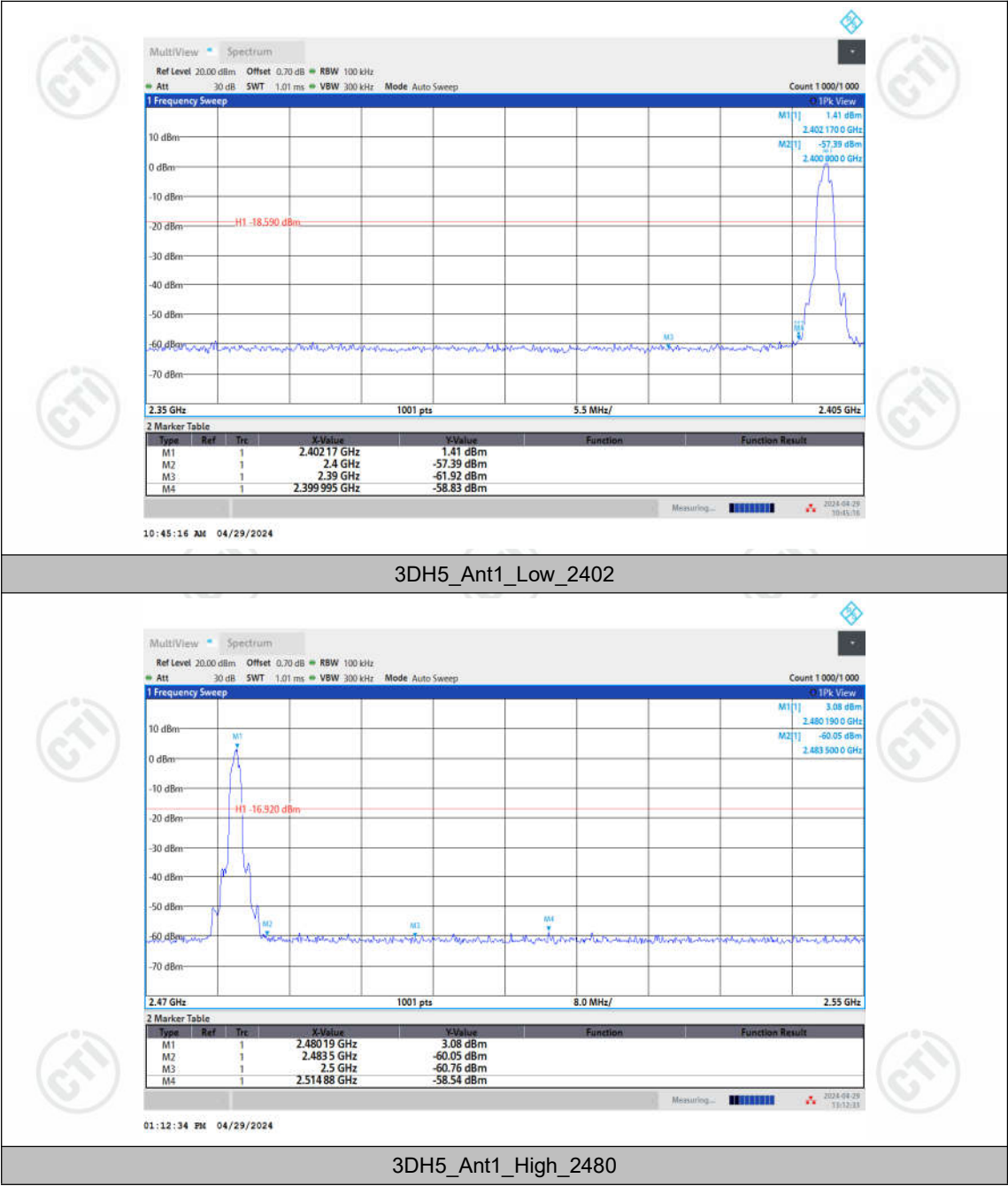
Test Graphs

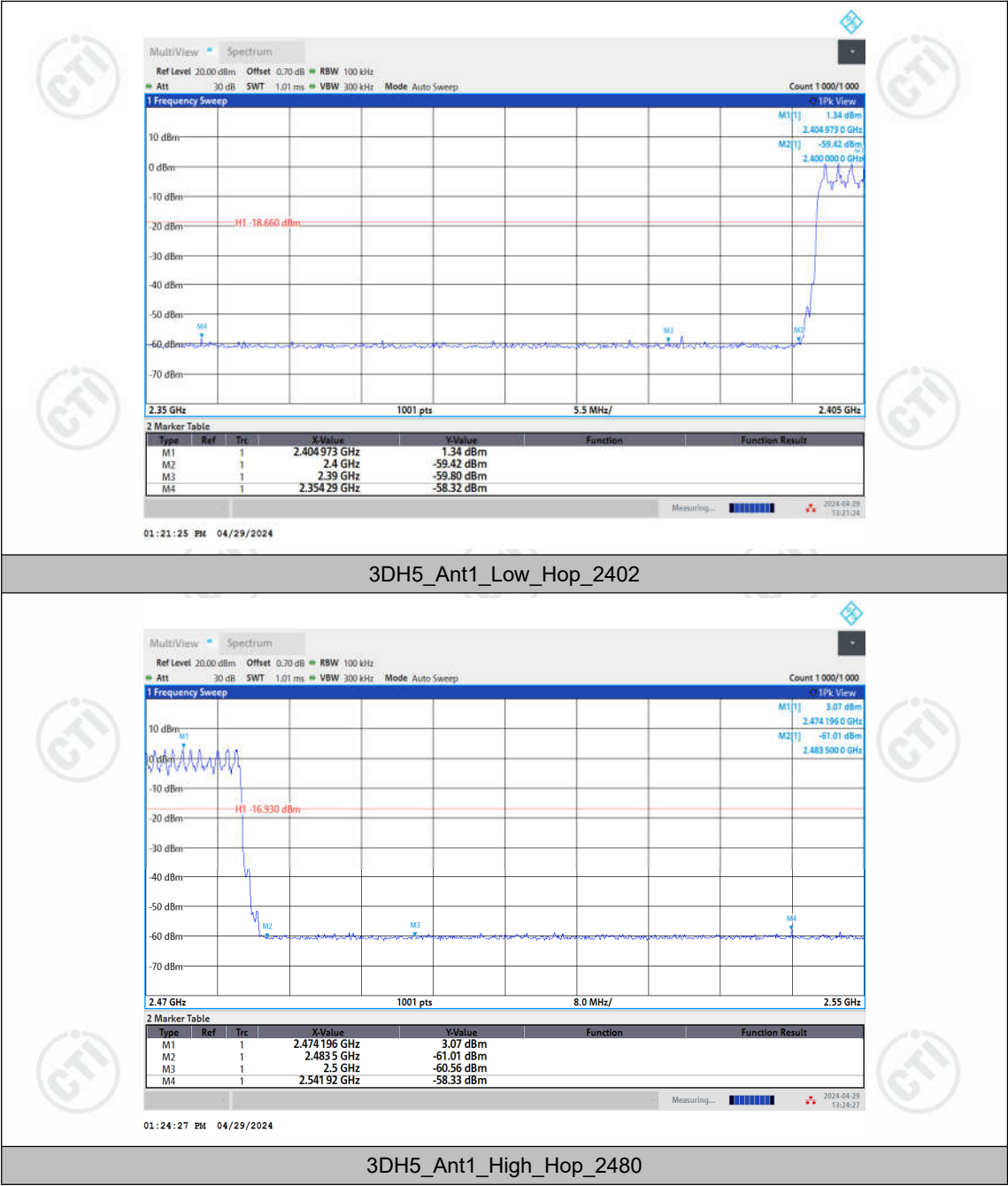










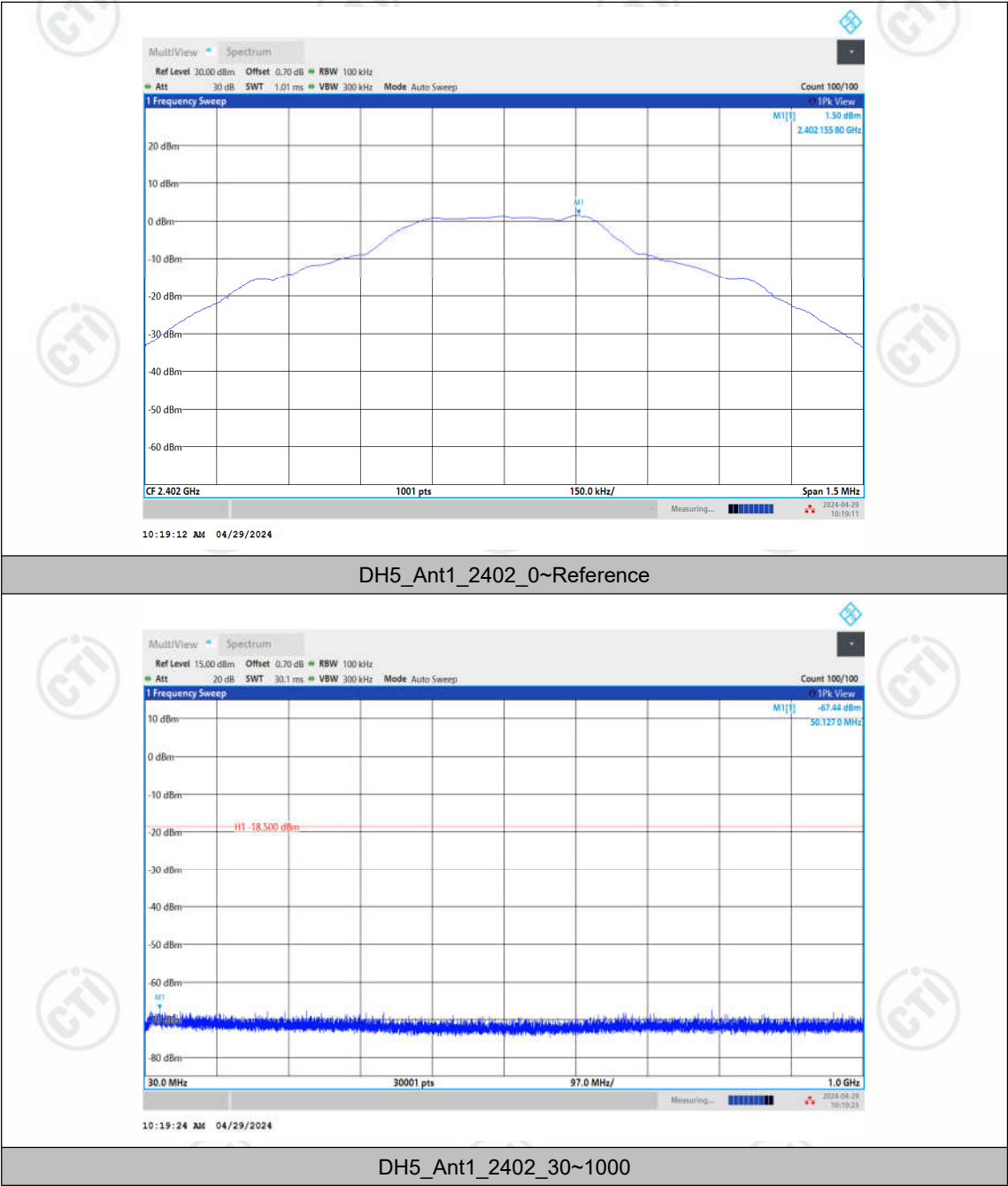


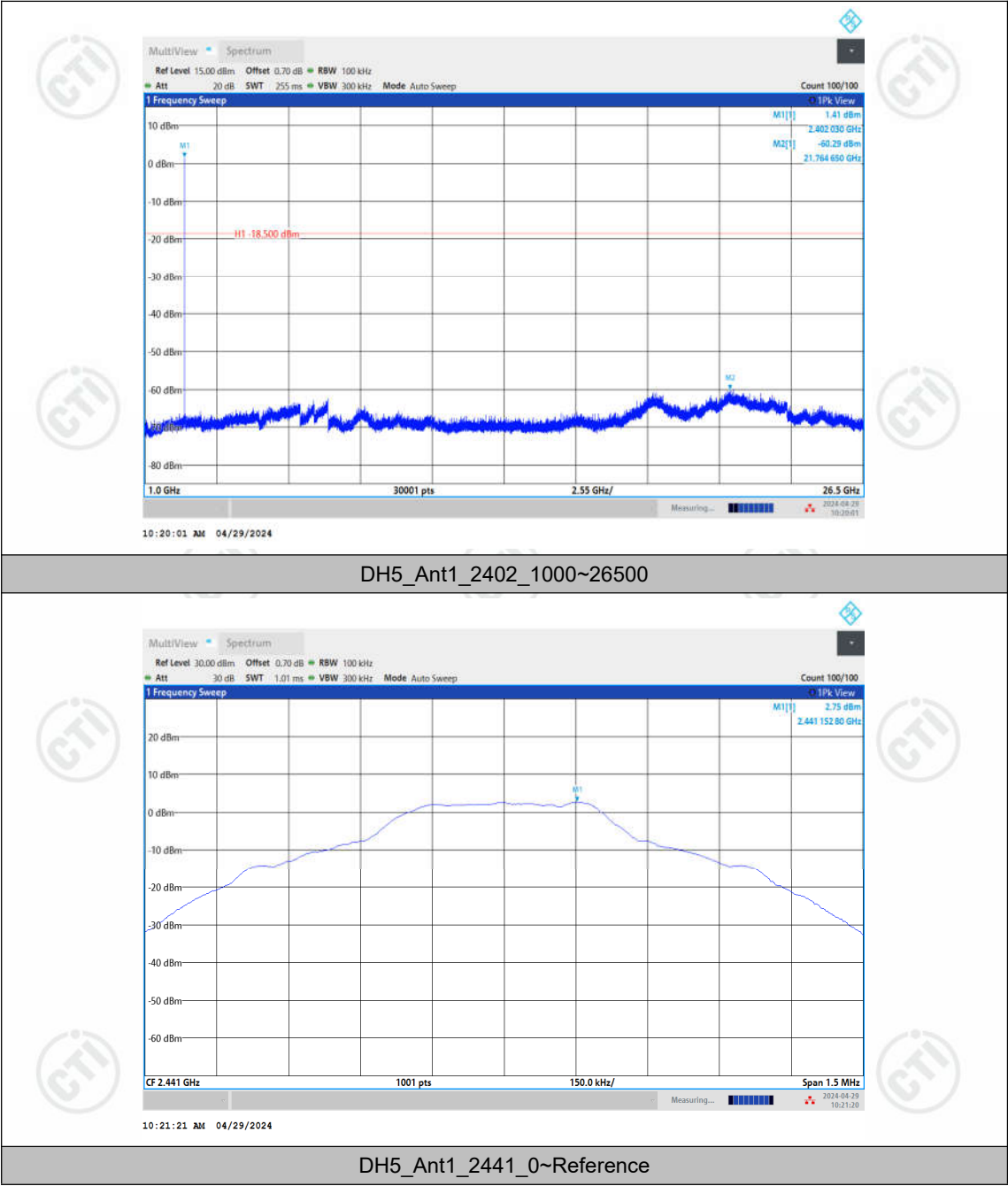
Appendix H: Conducted Spurious Emission

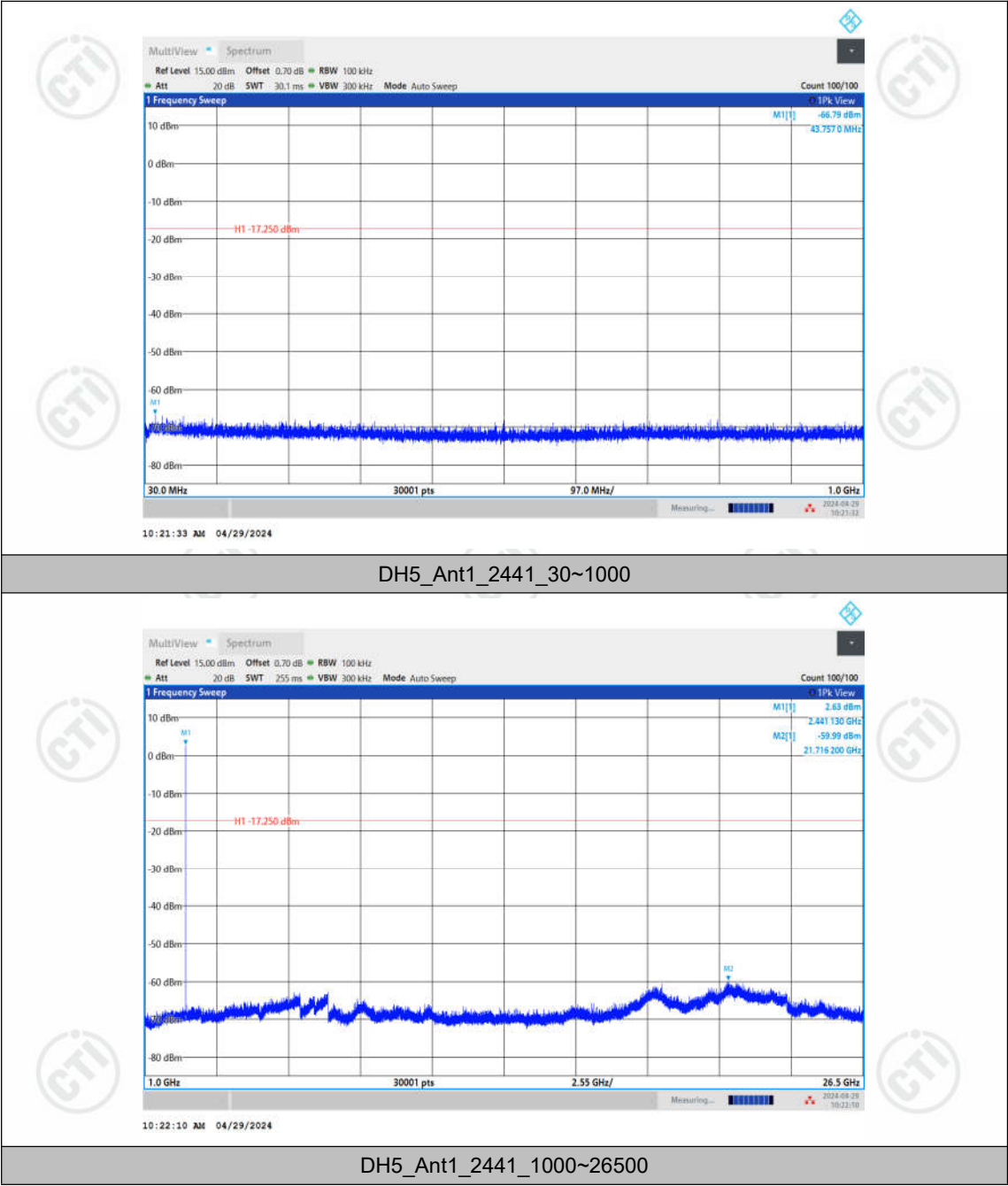
Test Result

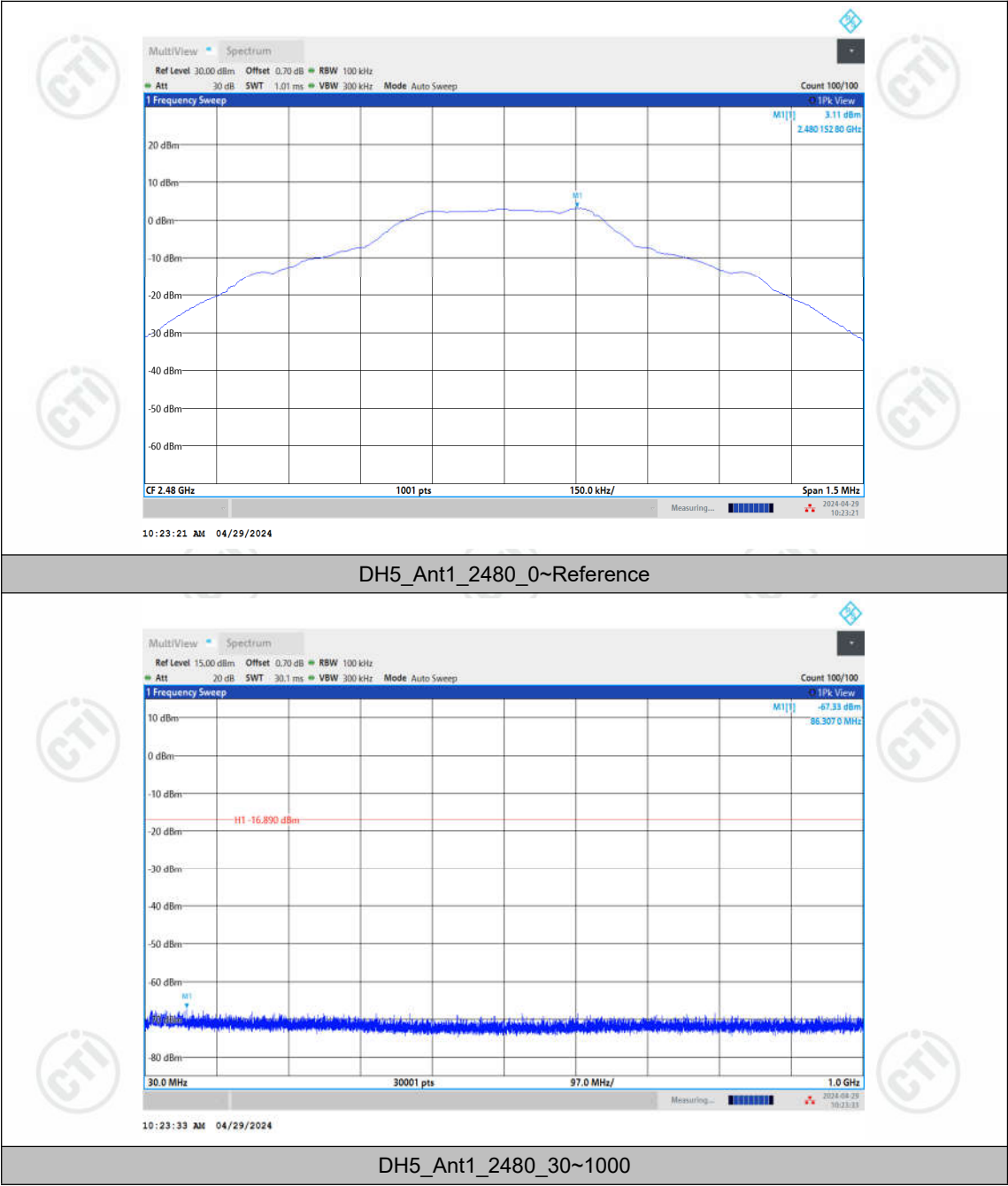
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-67.44	≤-18.5	PASS
			1000~26500	1.50	-60.29	≤-18.5	PASS
		2441	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-66.79	≤-17.25	PASS
			1000~26500	2.75	-59.99	≤-17.25	PASS
		2480	Reference	3.11	3.11	---	PASS
			30~1000	3.11	-67.33	≤-16.89	PASS
			1000~26500	3.11	-59.9	≤-16.89	PASS
2DH5	Ant1	2402	Reference	1.33	1.33	---	PASS
			30~1000	1.33	-67.57	≤-18.67	PASS
			1000~26500	1.33	-59.66	≤-18.67	PASS
		2441	Reference	2.61	2.61	---	PASS
			30~1000	2.61	-67.24	≤-17.39	PASS
			1000~26500	2.61	-59.65	≤-17.39	PASS
		2480	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-67.13	≤-17	PASS
			1000~26500	3.00	-59.93	≤-17	PASS
3DH5	Ant1	2402	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-65.77	≤-18.48	PASS
			1000~26500	1.52	-59.45	≤-18.48	PASS
		2441	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-65.98	≤-17.23	PASS
			1000~26500	2.77	-60.33	≤-17.23	PASS
		2480	Reference	3.15	3.15	---	PASS
			30~1000	3.15	-67.57	≤-16.85	PASS
			1000~26500	3.15	-56.35	≤-16.85	PASS

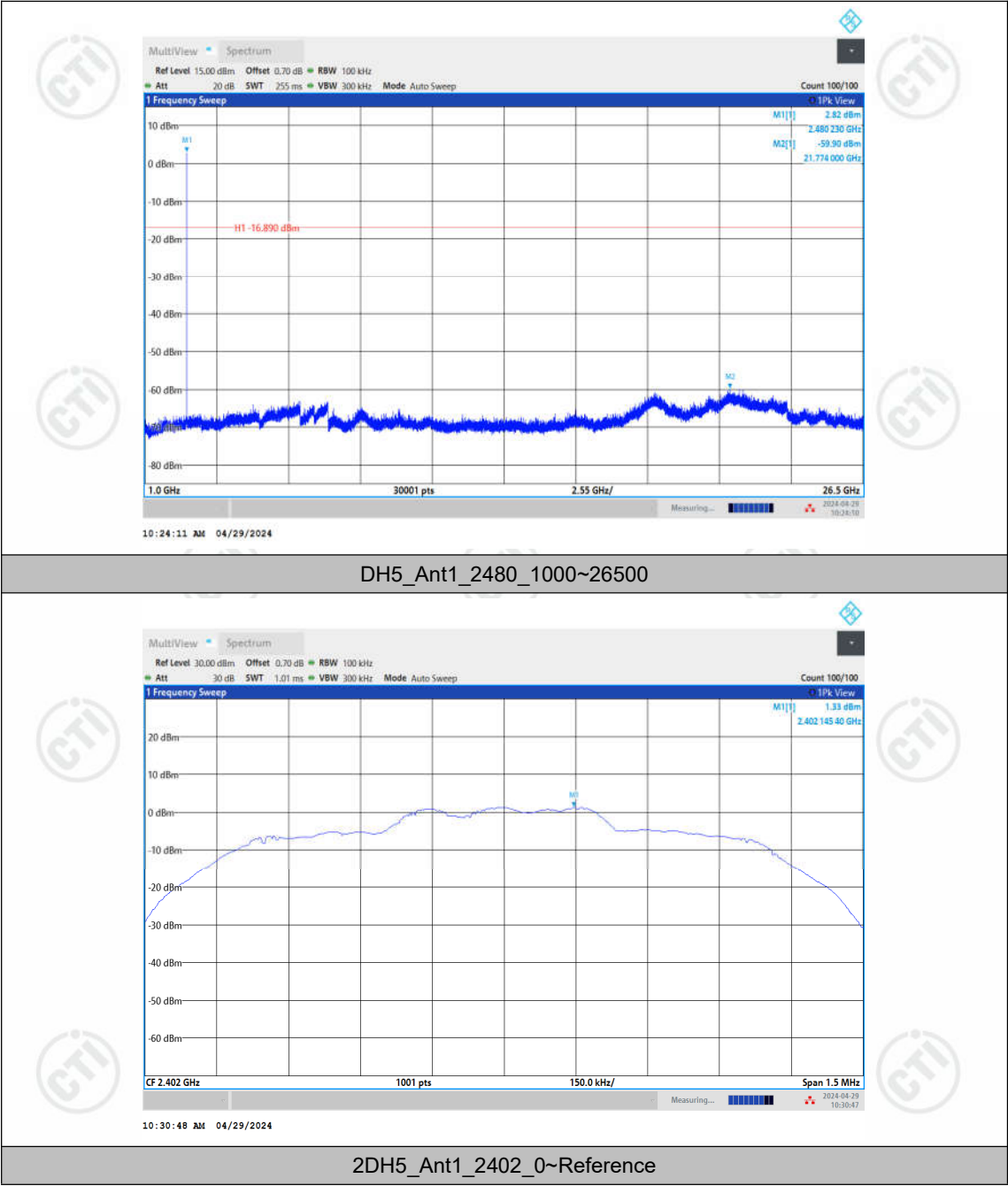
Test Graphs

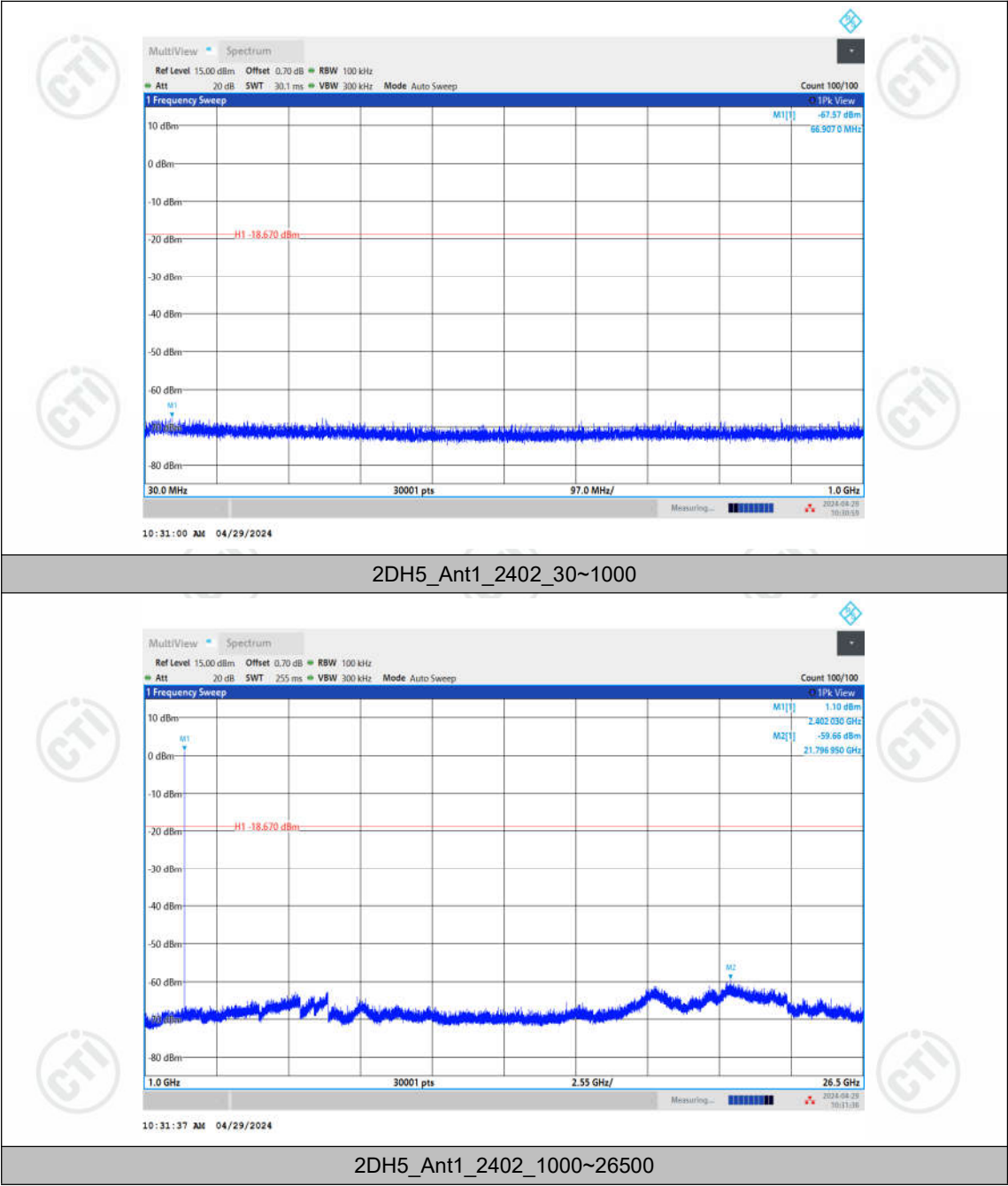


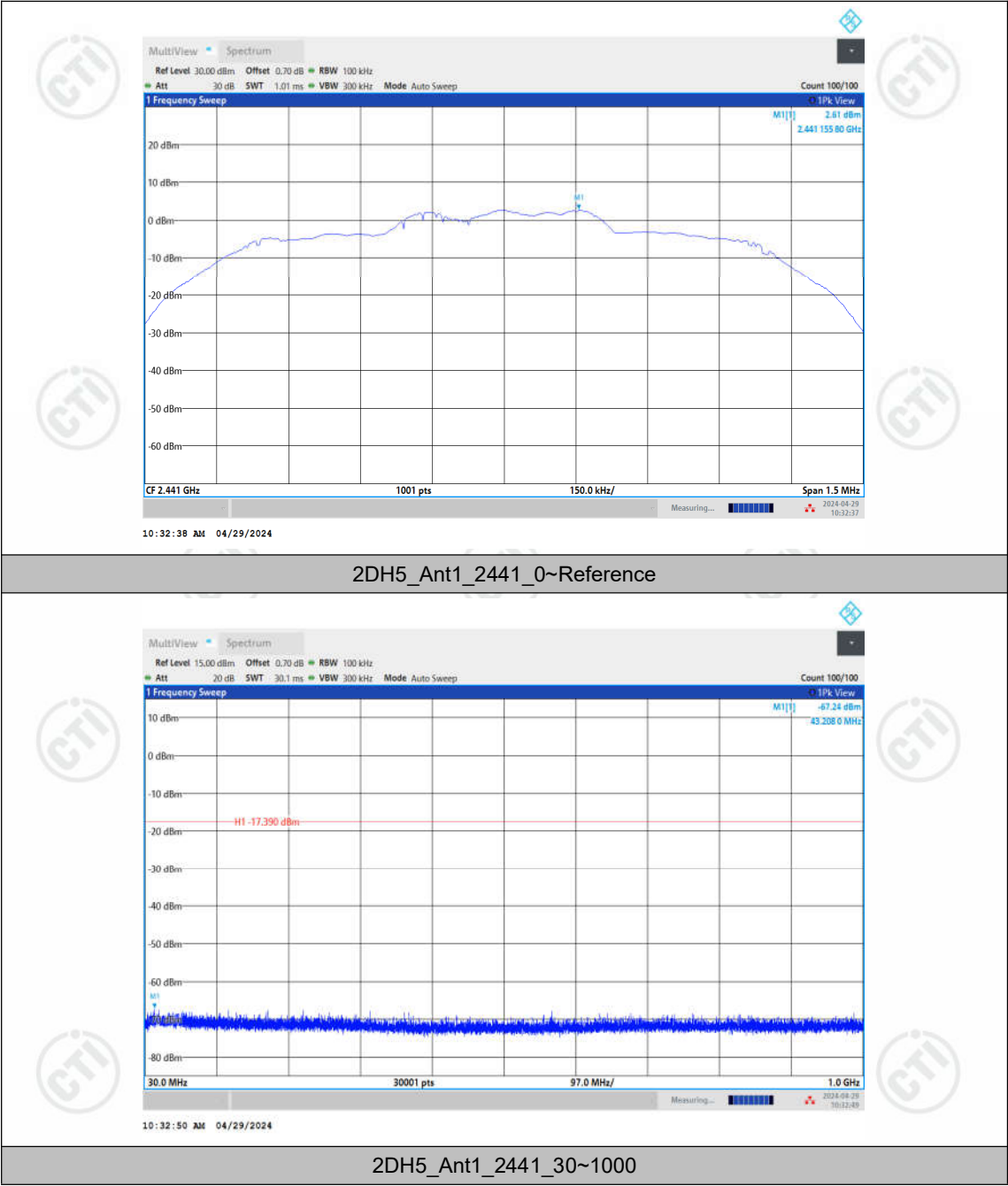


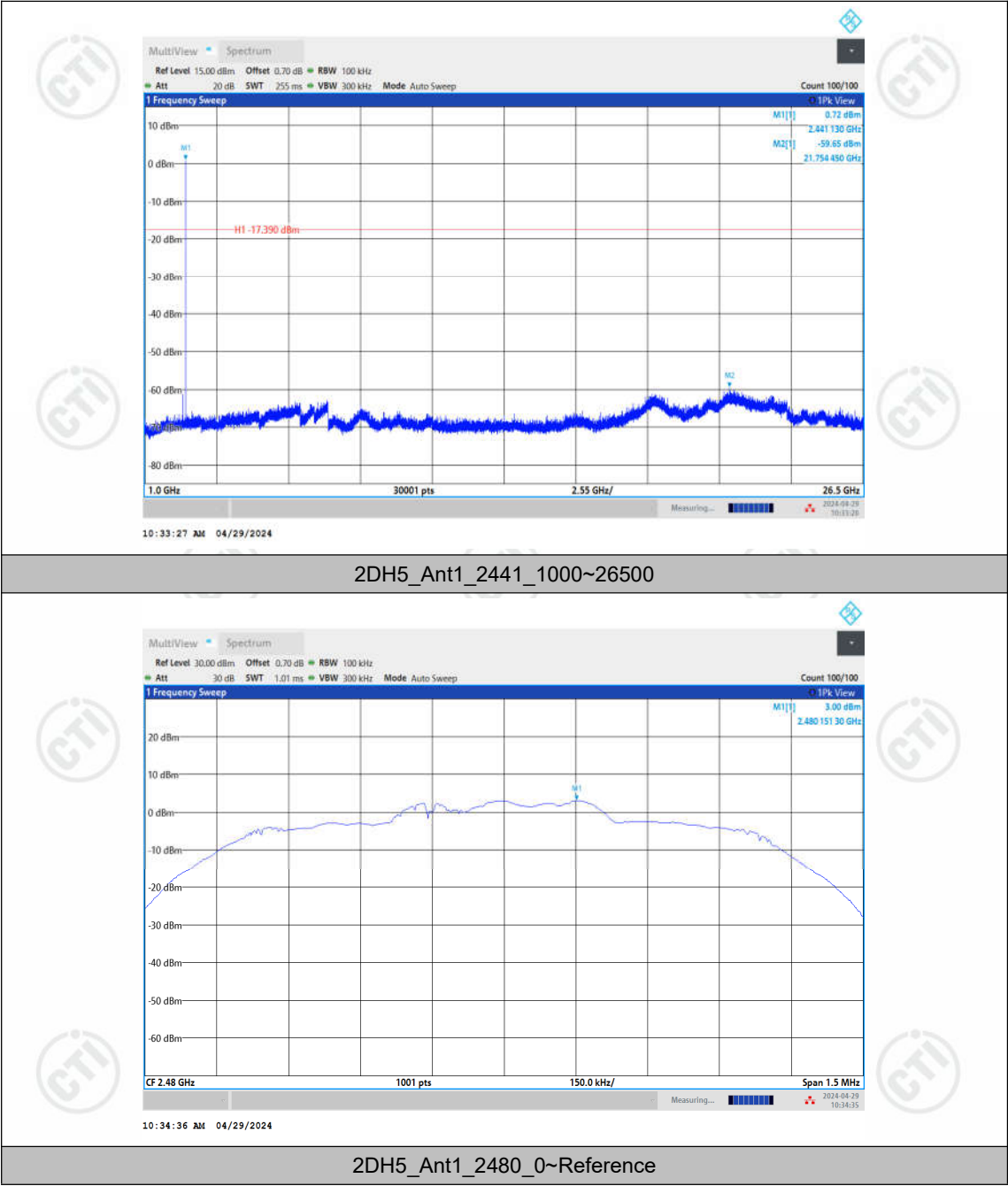


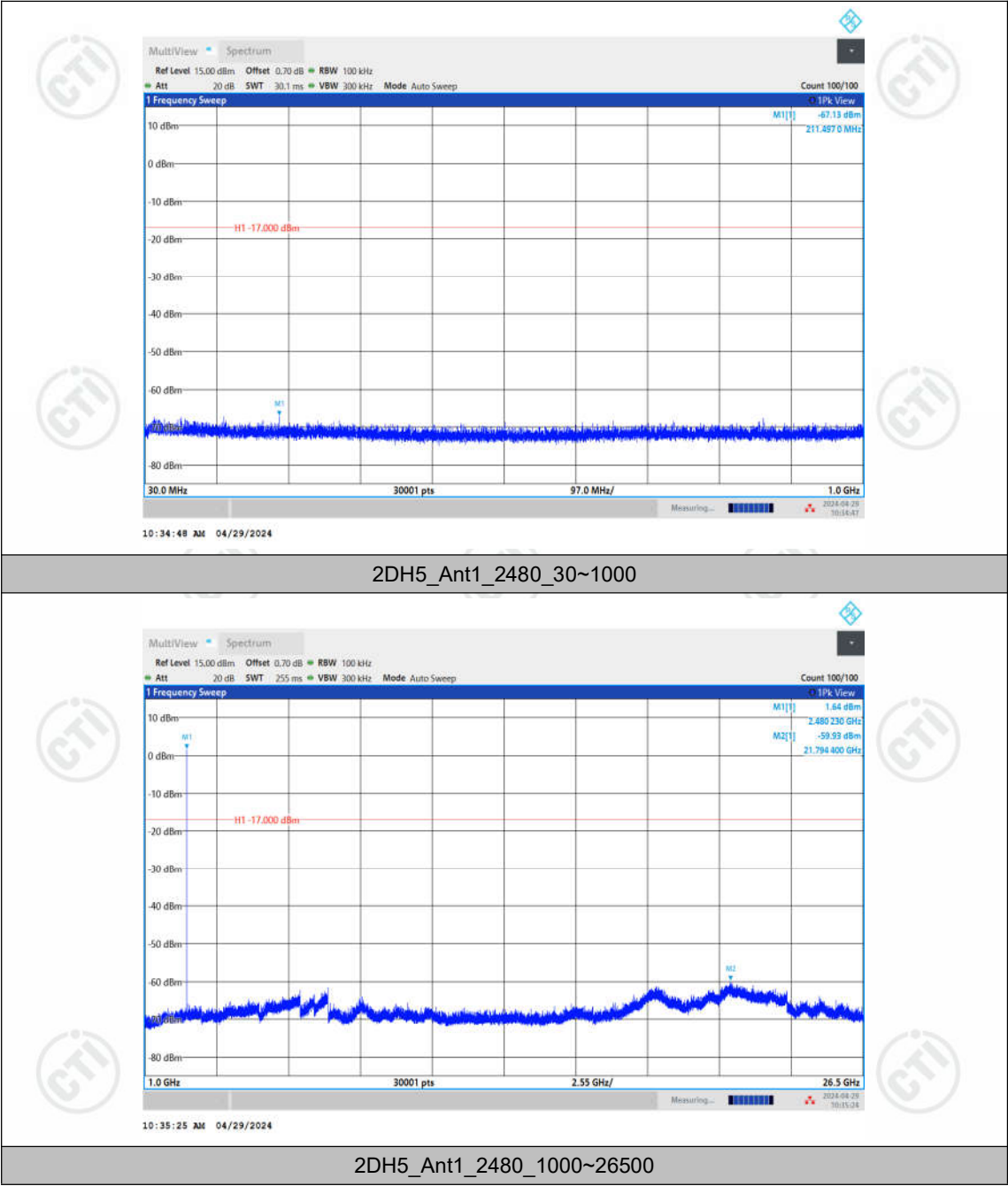


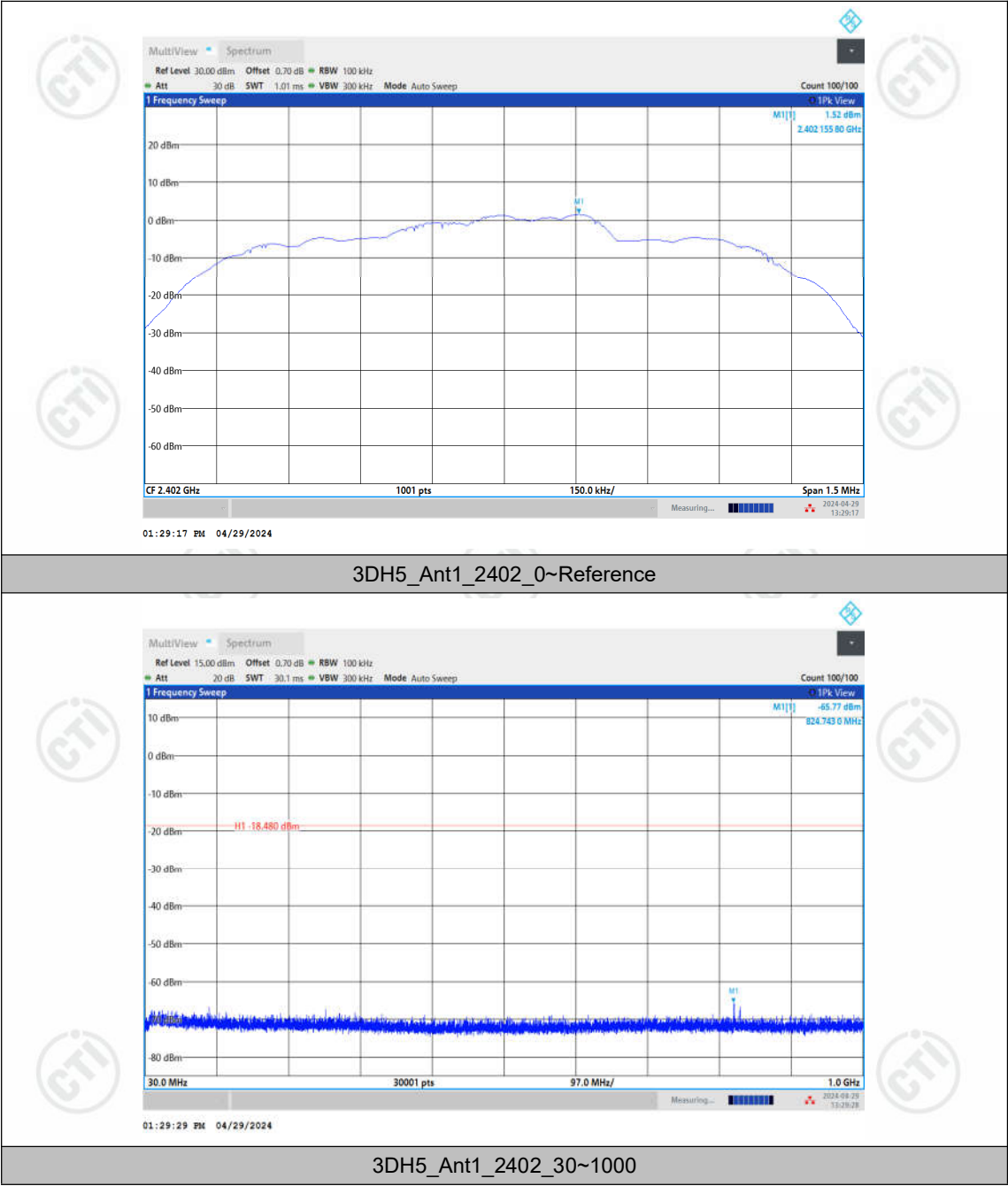


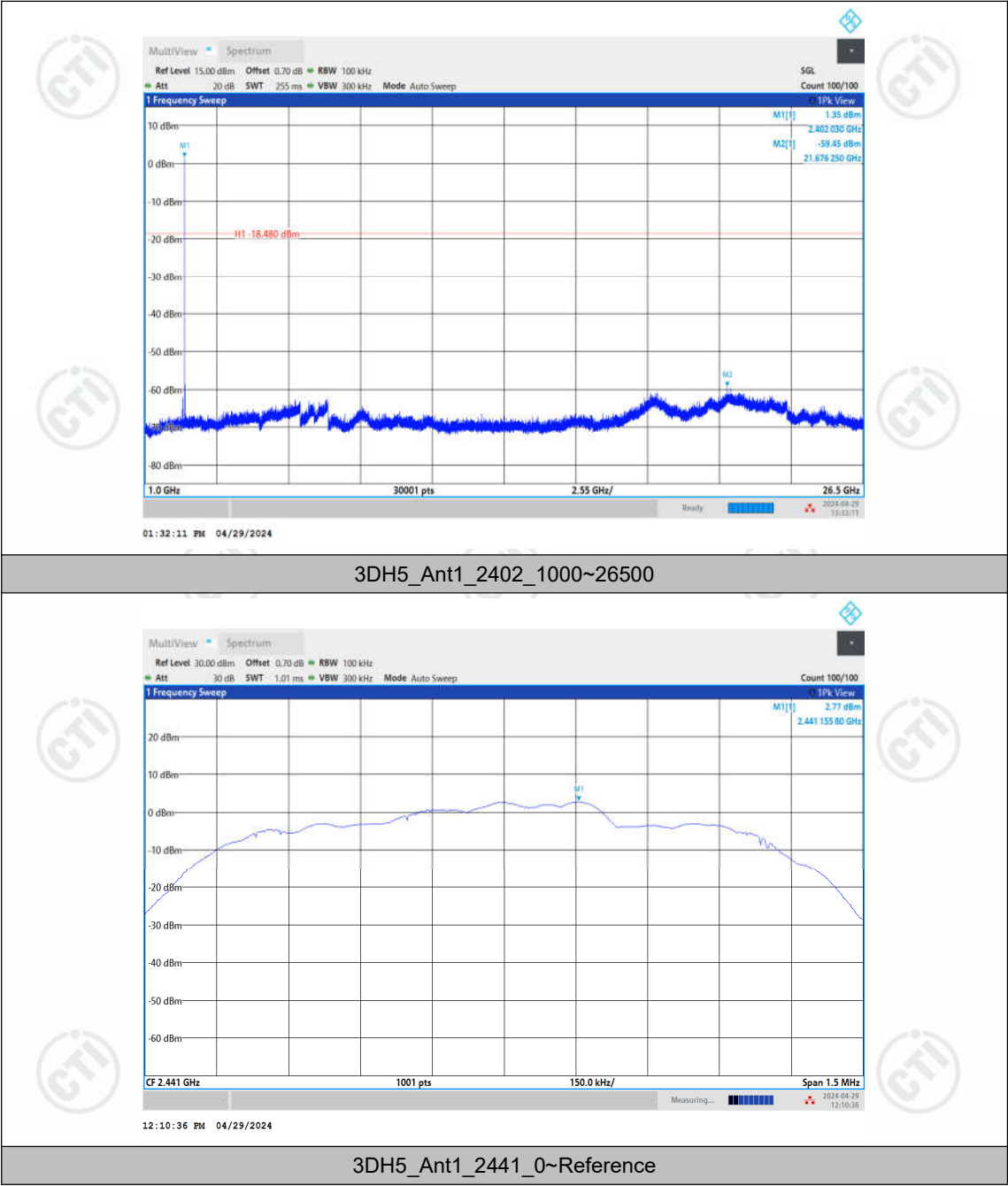


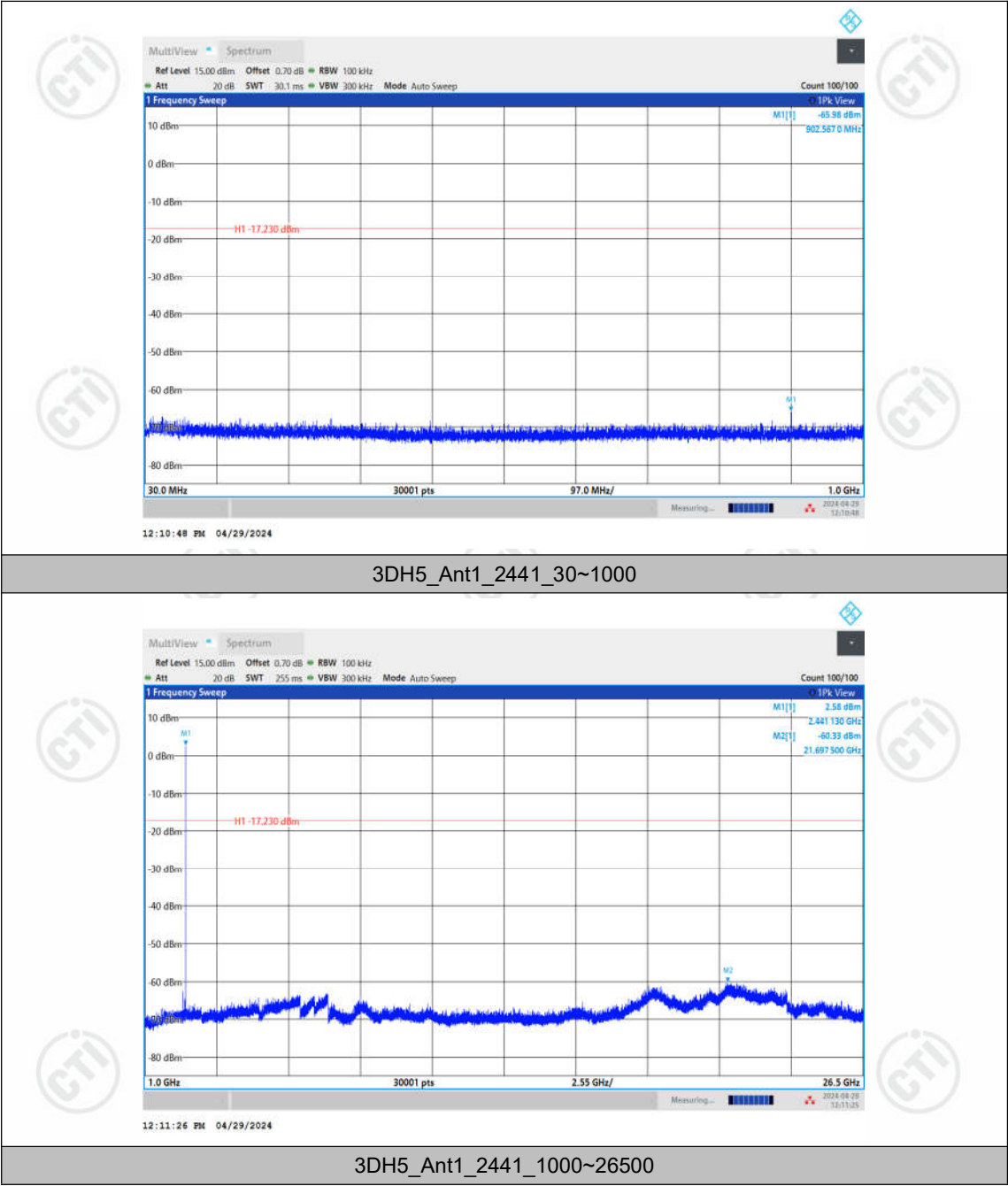


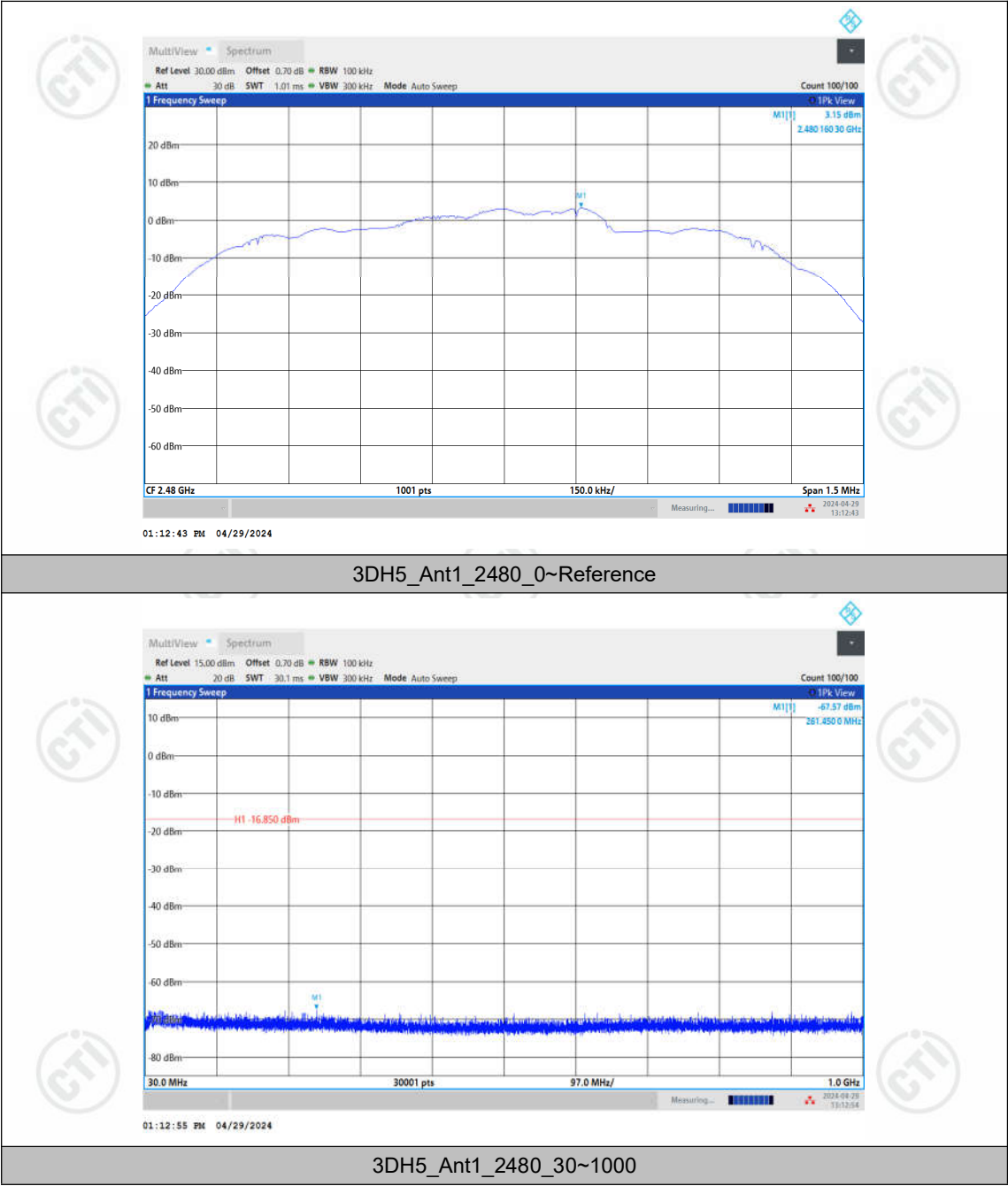


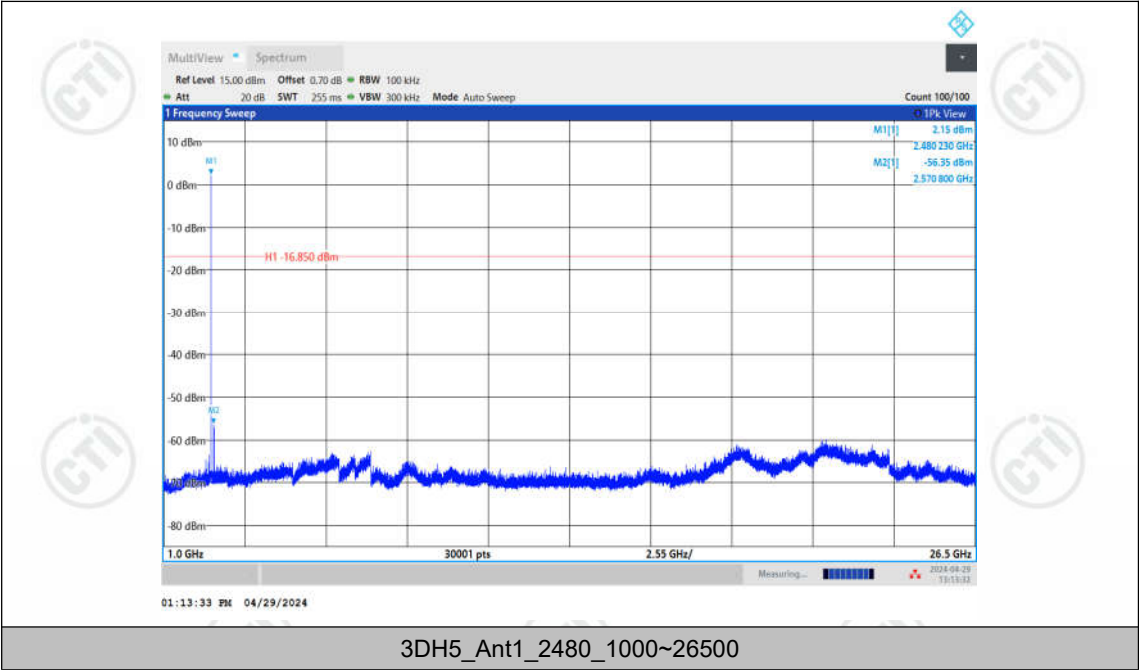












Appendix I: Duty Cycle

Test Result

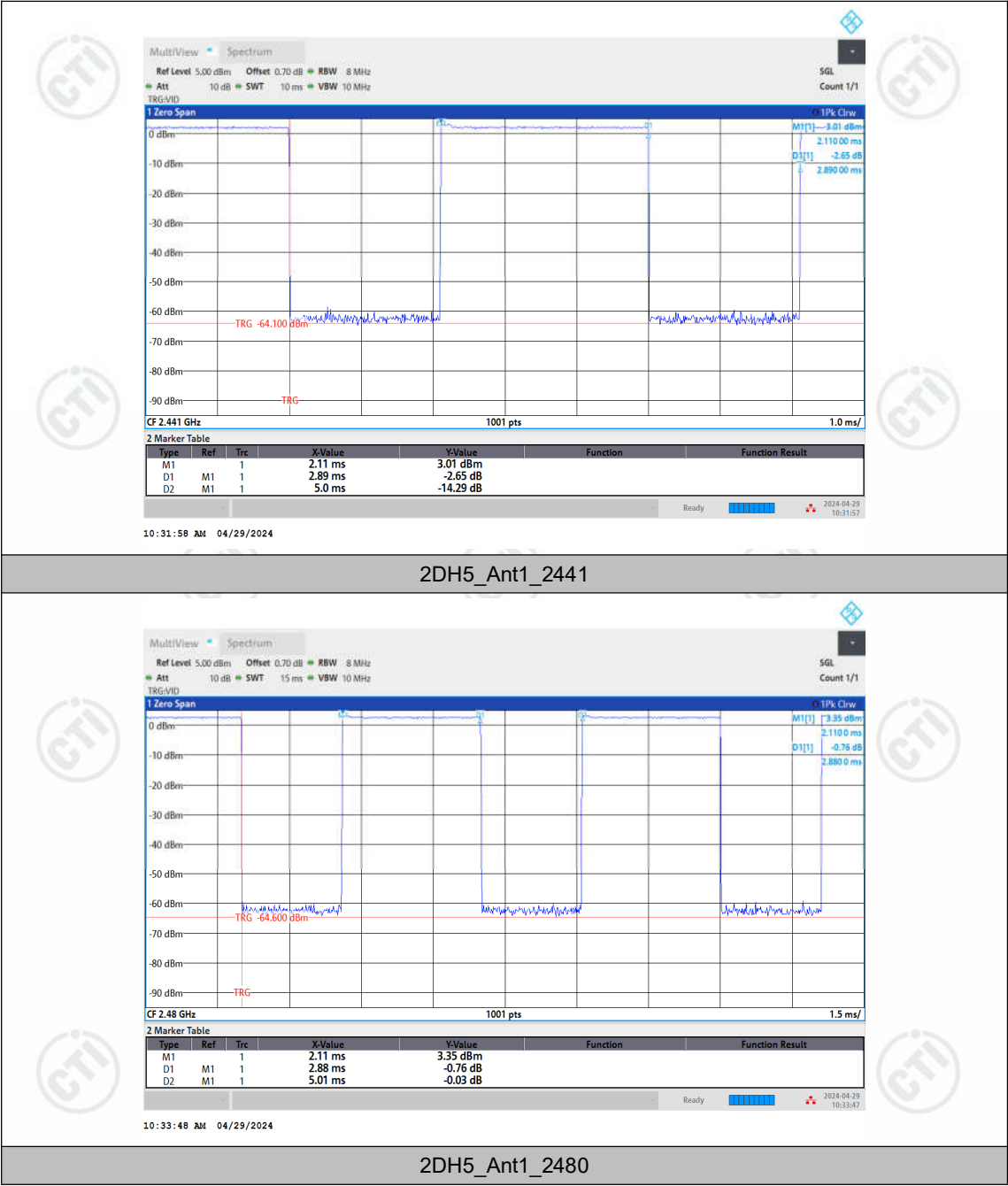
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	5.00	57.60	2.40
		2441	2.88	5.00	57.60	2.40
		2480	2.88	5.00	57.60	2.40
2DH5	Ant1	2402	2.89	5.00	57.80	2.38
		2441	2.89	5.00	57.80	2.38
		2480	2.88	5.01	57.49	2.40
3DH5	Ant1	2402	2.89	5.01	57.68	2.39
		2441	2.89	5.01	57.68	2.39
		2480	2.89	5.00	57.80	2.38

Note:Duty Cycle Factor[dB]=-10*IgDuty Cycle;

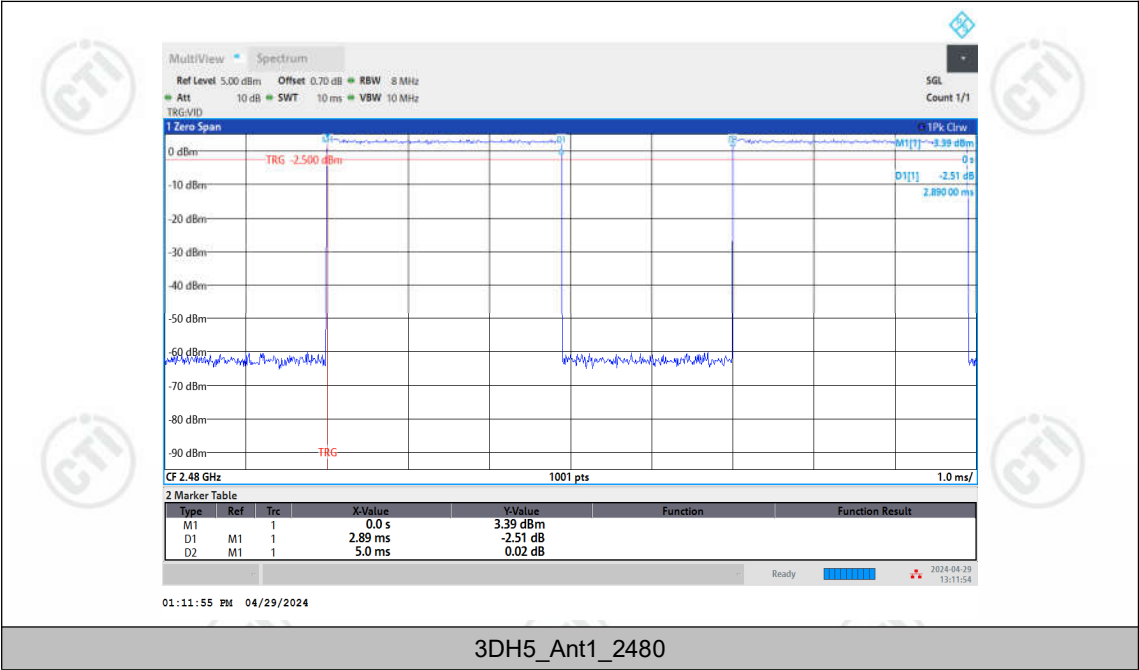
Test Graphs











*** End of Report ***