

Appendix: Bluetooth Classic

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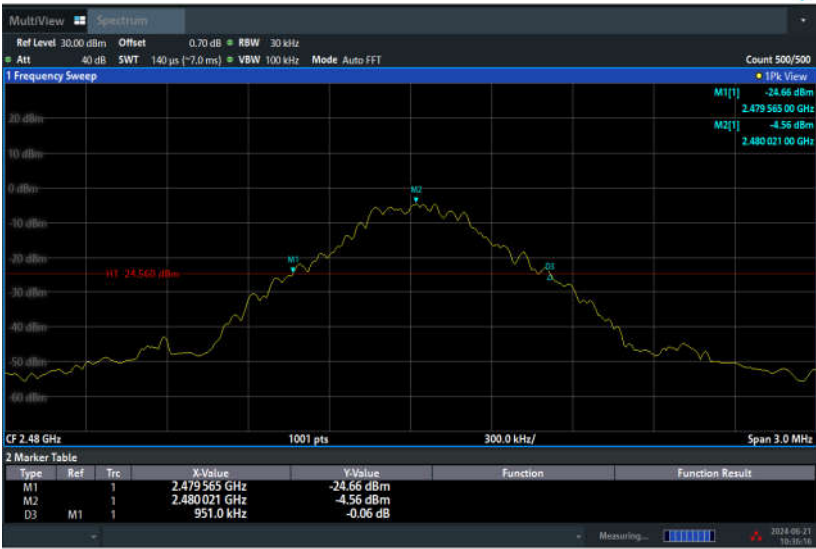
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.57	2402.52	---	---
		2441	0.95	2440.57	2441.52	---	---
		2480	0.95	2479.57	2480.52	---	---
2DH5	Ant1	2402	1.35	2401.36	2402.71	---	---
		2441	1.33	2440.37	2441.70	---	---
		2480	1.34	2479.36	2480.70	---	---
3DH5	Ant1	2402	1.33	2401.39	2402.71	---	---
		2441	1.35	2440.36	2441.71	---	---
		2480	1.32	2479.38	2480.71	---	---

Test Graphs





DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.848	2401.609	2402.458	---	---
		2441	0.859	2440.602	2441.461	---	---
		2480	0.86	2479.598	2480.459	---	---
2DH5	Ant1	2402	1.189	2401.442	2402.632	---	---
		2441	1.19	2440.440	2441.631	---	---
		2480	1.188	2479.438	2480.626	---	---
3DH5	Ant1	2402	1.193	2401.443	2402.636	---	---
		2441	1.187	2440.445	2441.631	---	---
		2480	1.187	2479.445	2480.632	---	---

Test Graphs





DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

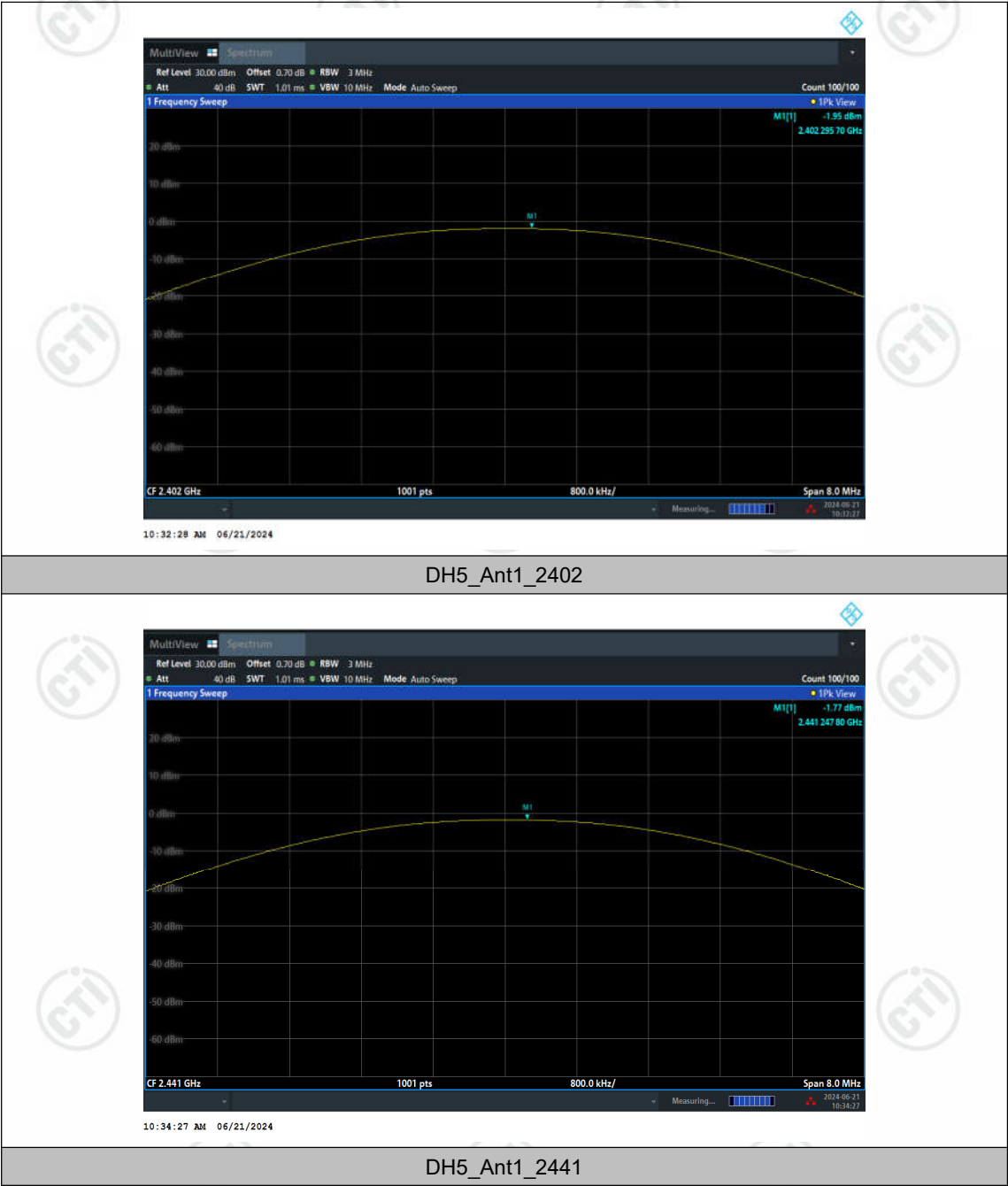


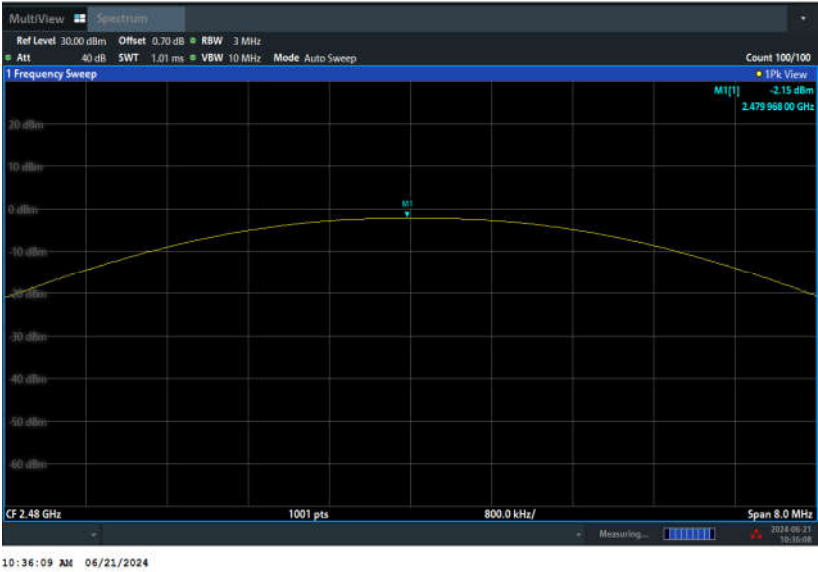
Appendix C: Maximum conducted output power

Test Result Peak

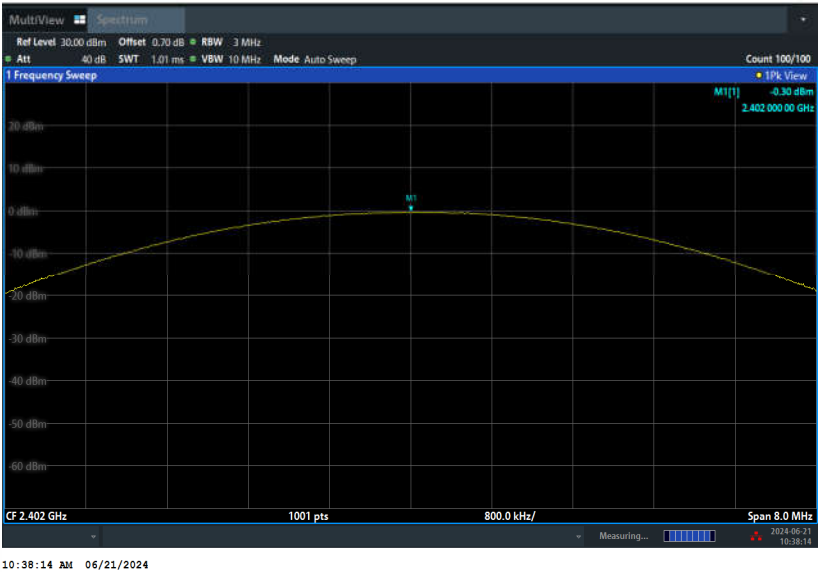
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.95	≤30	PASS
		2441	-1.77	≤30	PASS
		2480	-2.15	≤30	PASS
2DH5	Ant1	2402	-0.3	≤30	PASS
		2441	0.71	≤30	PASS
		2480	0.47	≤30	PASS
3DH5	Ant1	2402	-0.02	≤30	PASS
		2441	0.98	≤30	PASS
		2480	-1.64	≤30	PASS

Test Graphs

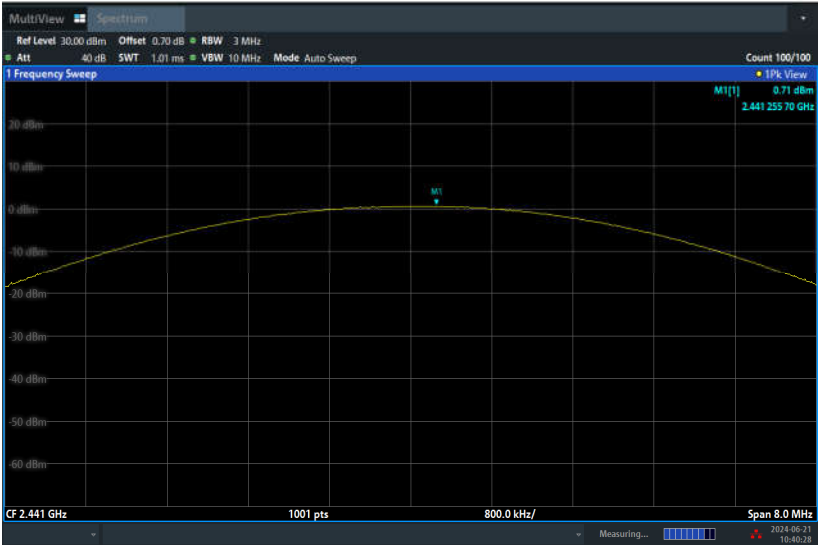




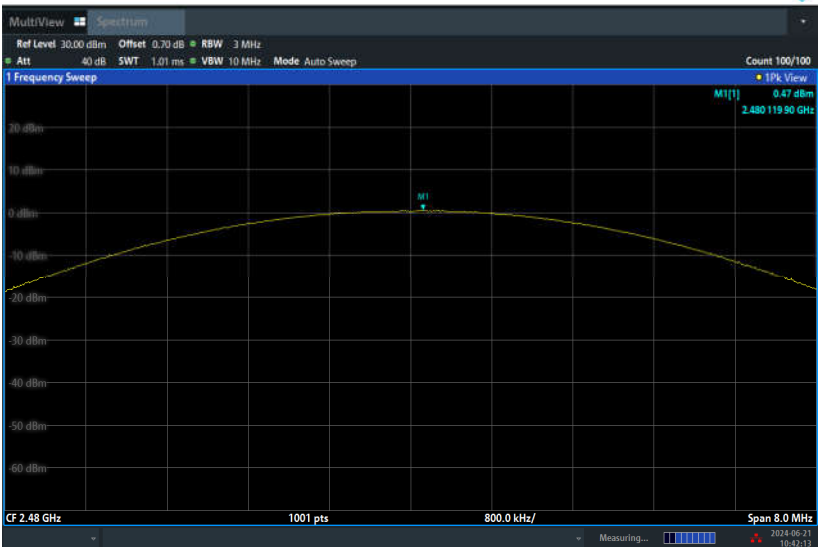
DH5_Ant1_2480



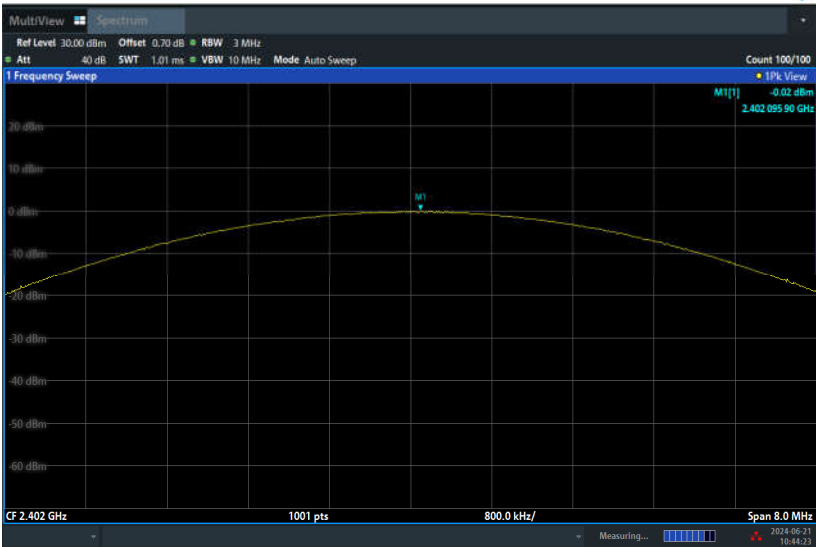
2DH5_Ant1_2402



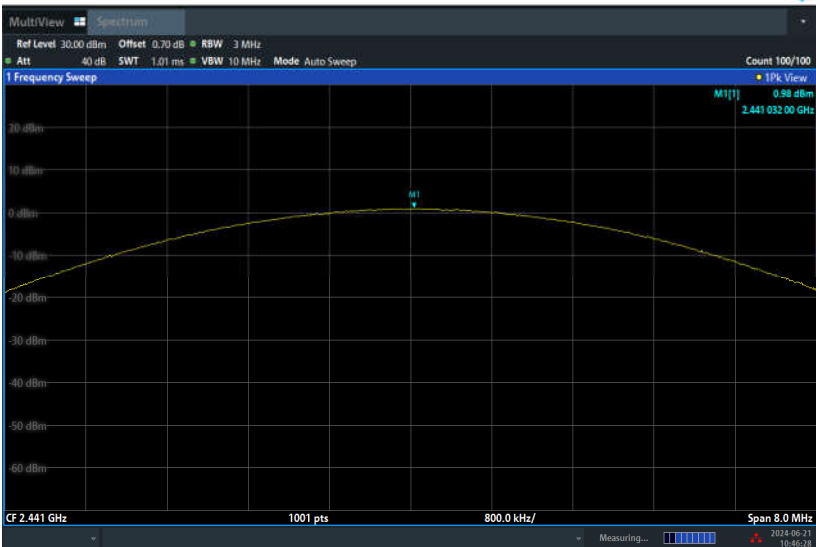
2DH5_Ant1_2441



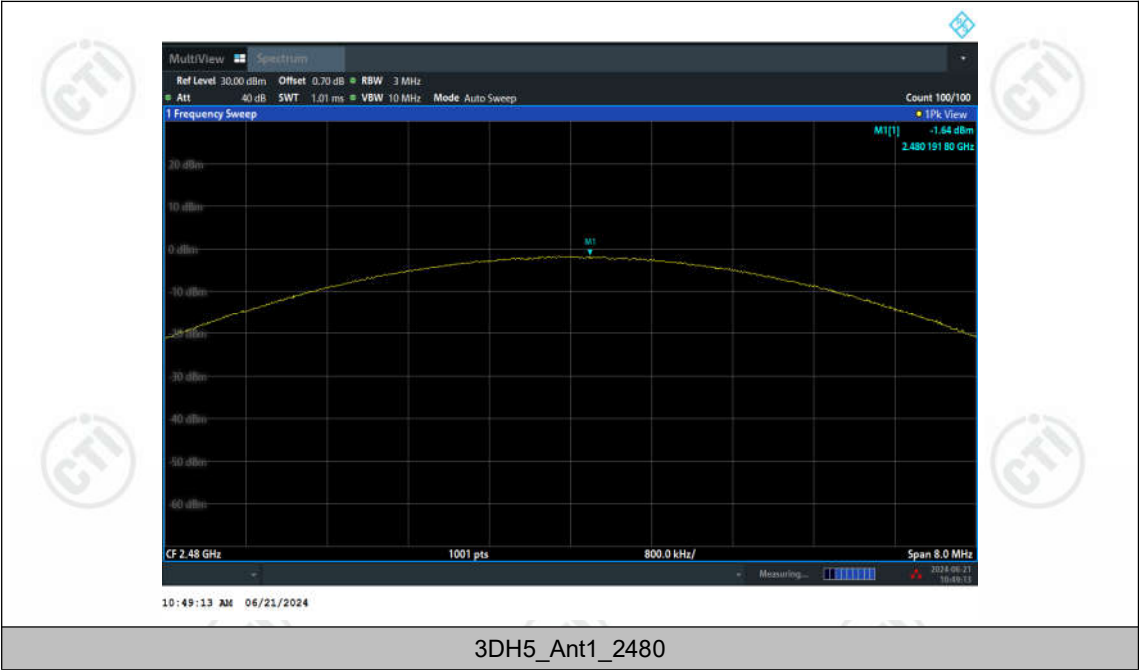
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



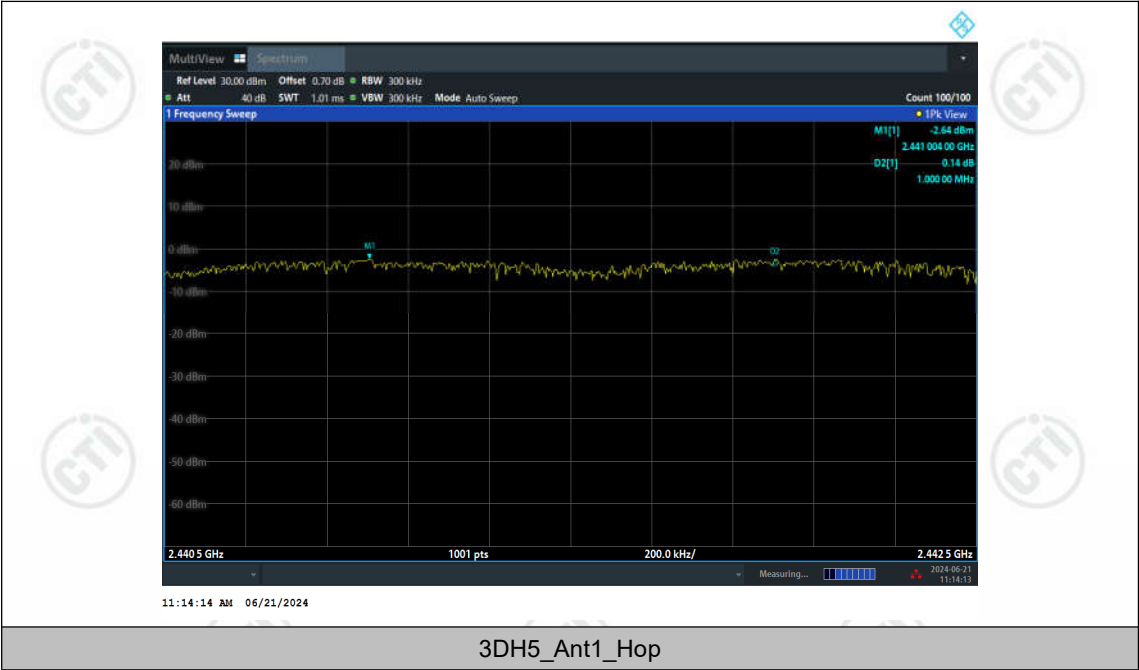
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.044	≥0.950	PASS
2DH5	Ant1	Hop	1.176	≥0.900	PASS
3DH5	Ant1	Hop	1	≥0.900	PASS

Test Graphs





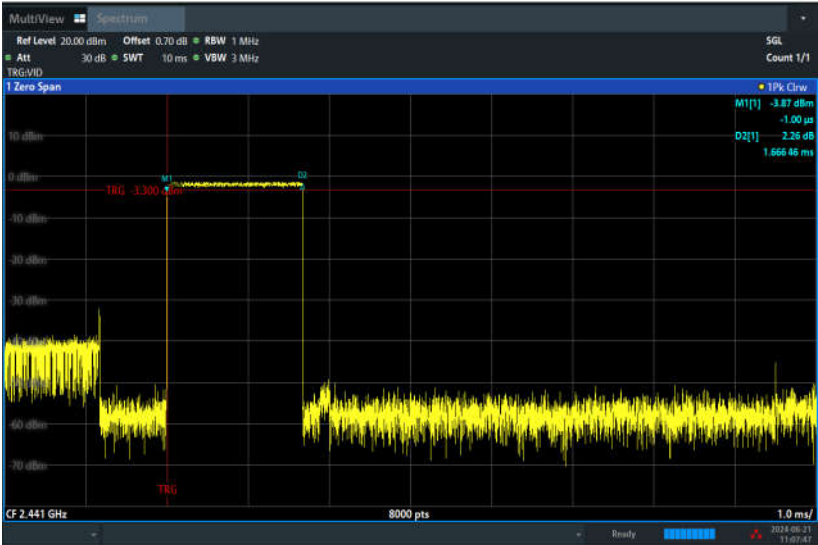
Appendix E: Time of occupancy

Test Result

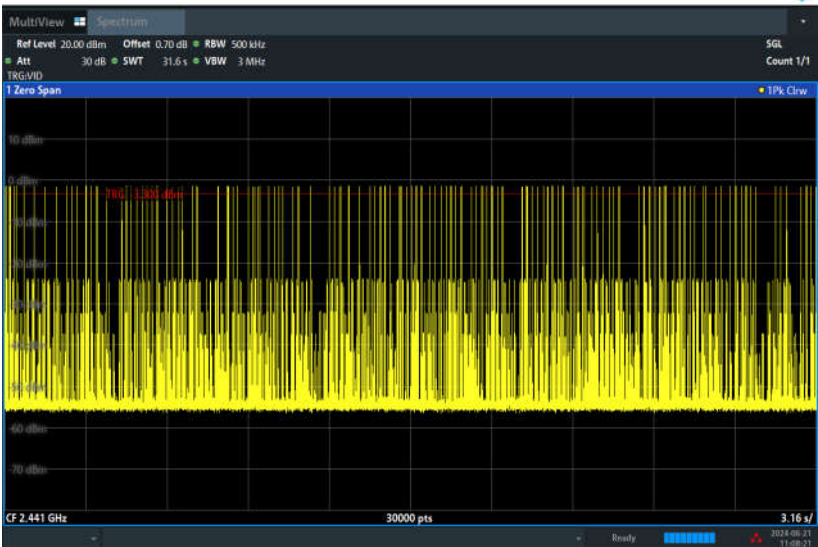
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.41	318	0.131	≤0.4	PASS
DH3	Ant1	Hop	1.67	157	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.92	111	0.324	≤0.4	PASS
2DH1	Ant1	Hop	0.42	315	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.67	151	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.92	100	0.292	≤0.4	PASS
3DH1	Ant1	Hop	0.42	317	0.134	≤0.4	PASS
3DH3	Ant1	Hop	1.67	160	0.268	≤0.4	PASS
3DH5	Ant1	Hop	2.92	102	0.298	≤0.4	PASS

Test Graphs

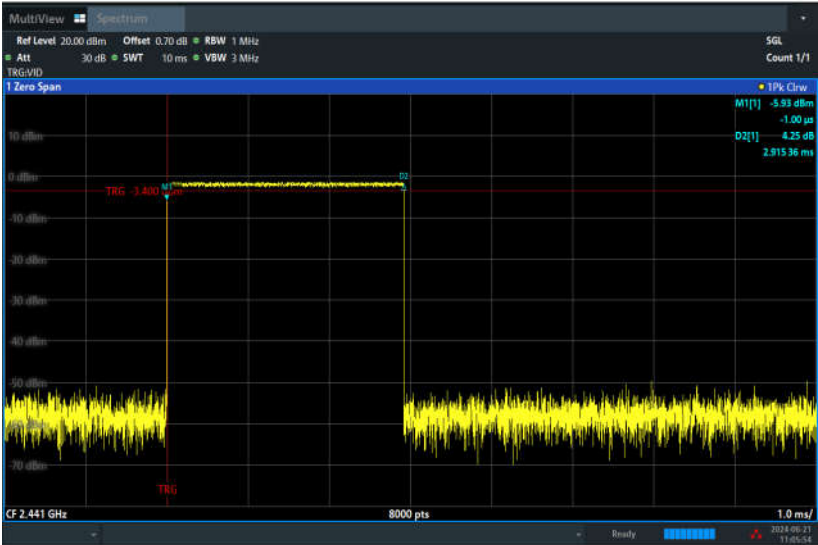




DH3_Ant1_Hop

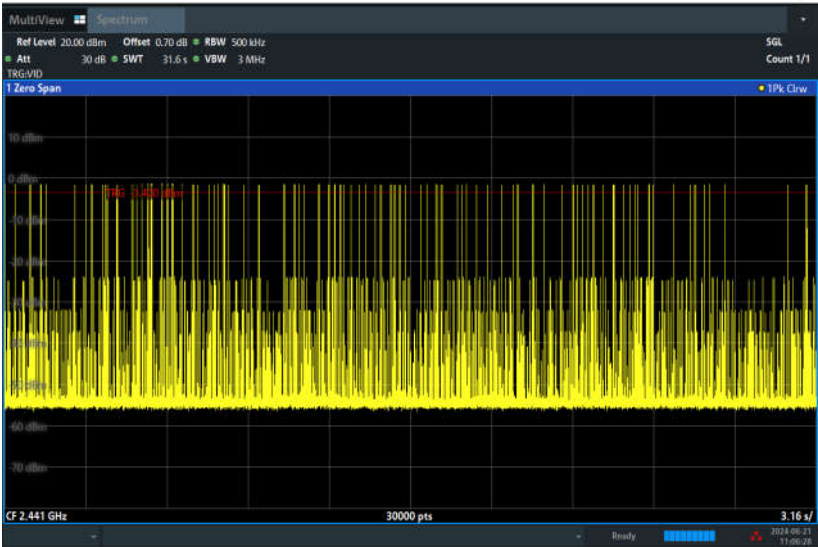


DH3_Ant1_Hop



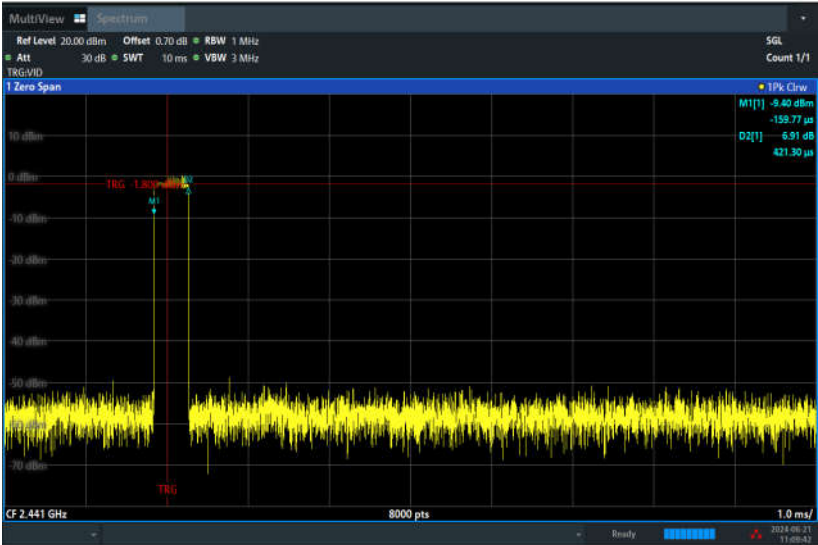
11:05:55 AM 06/21/2024

DH5_Ant1_Hop

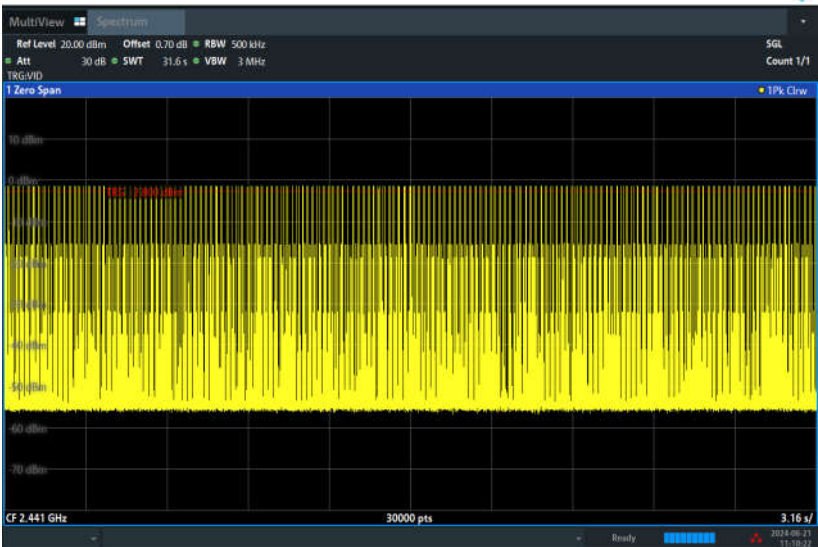


11:06:29 AM 06/21/2024

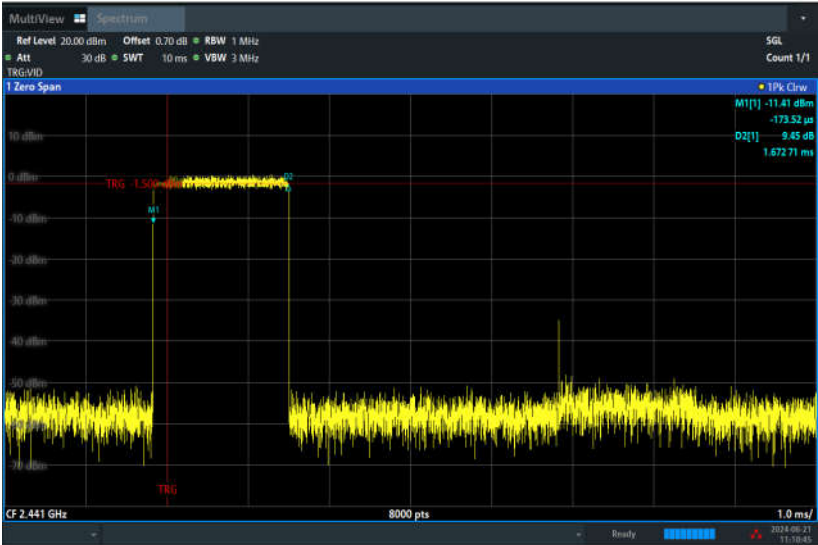
DH5_Ant1_Hop



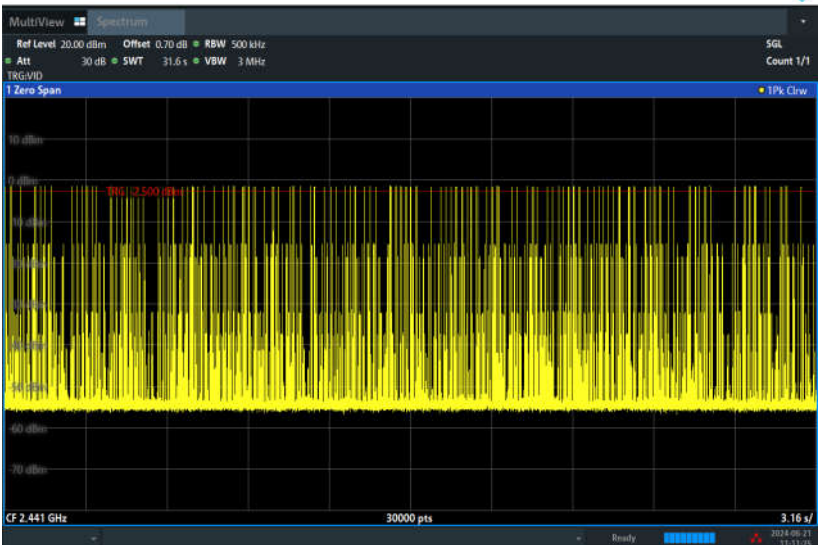
2DH1_Ant1_Hop



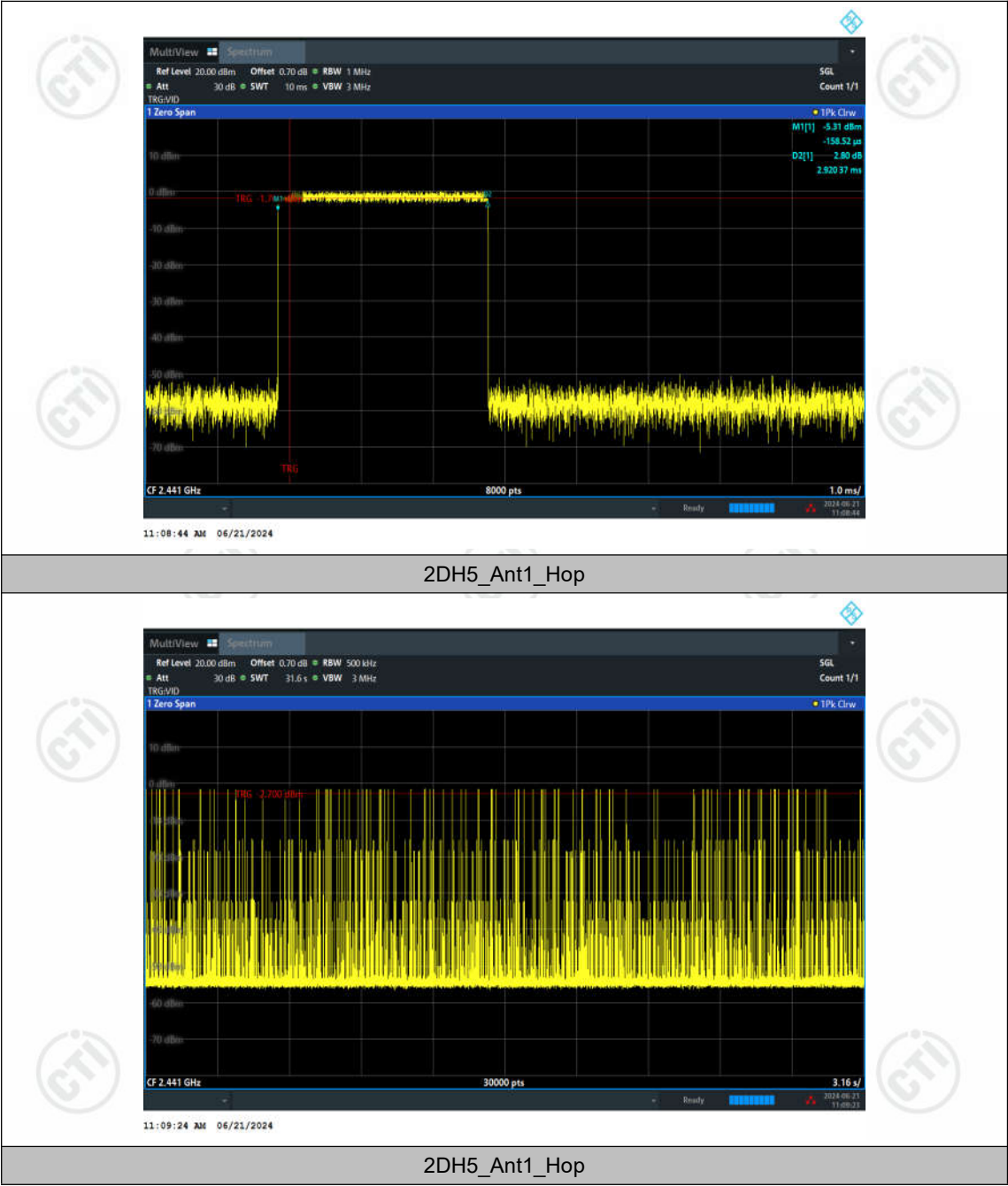
2DH1_Ant1_Hop

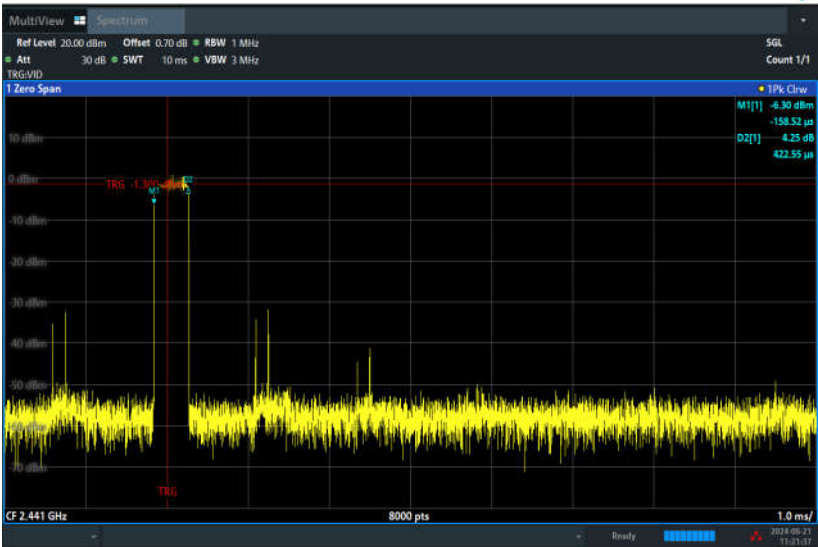


2DH3_Ant1_Hop

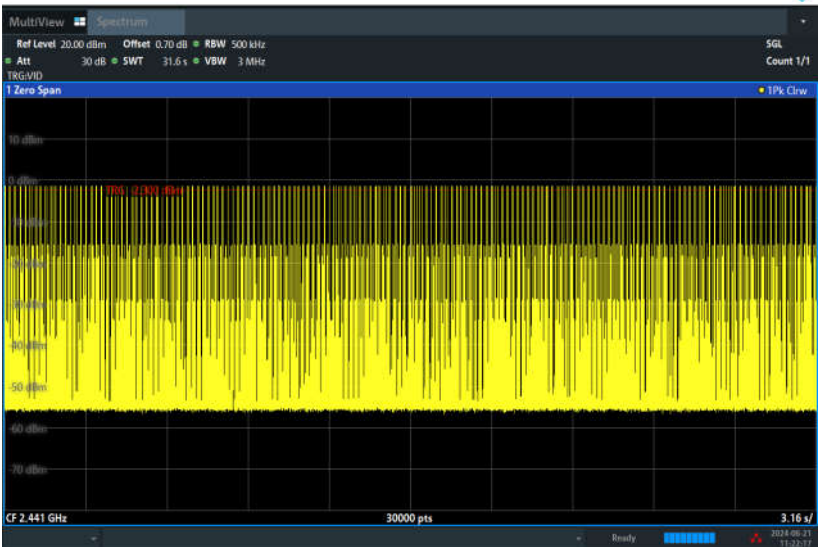


2DH3_Ant1_Hop

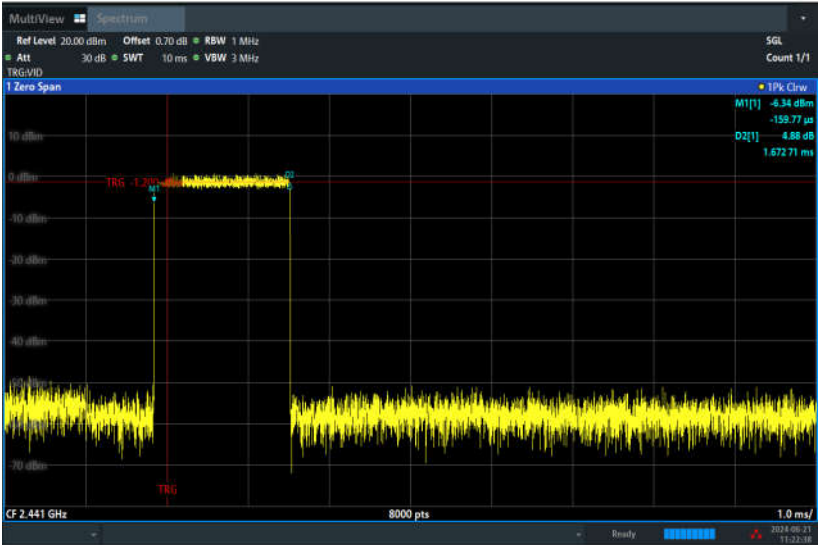




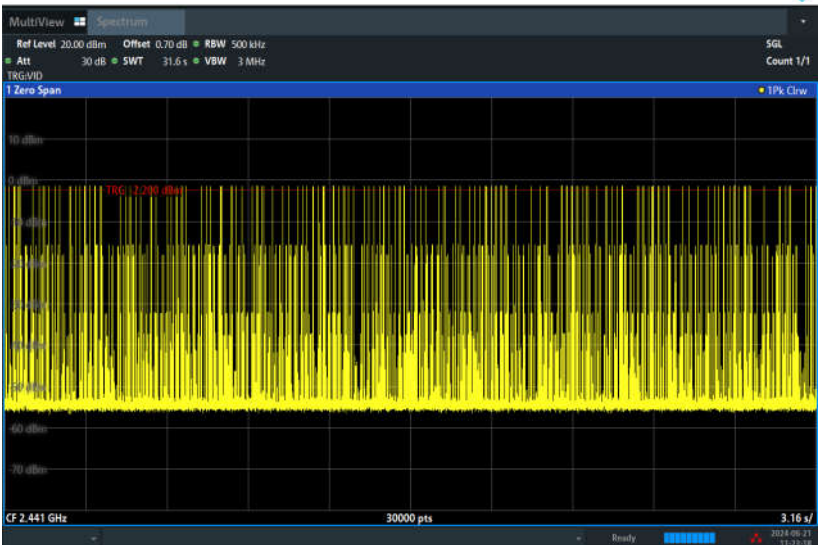
3DH1_Ant1_Hop



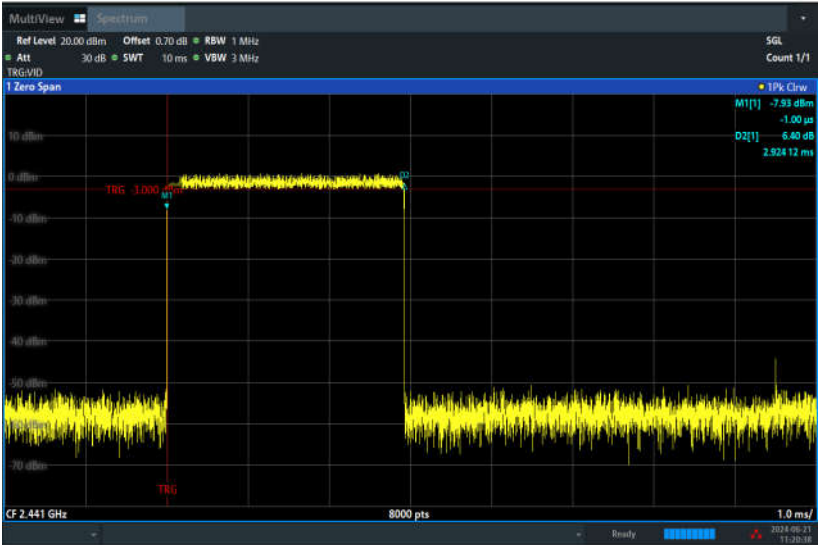
3DH1_Ant1_Hop



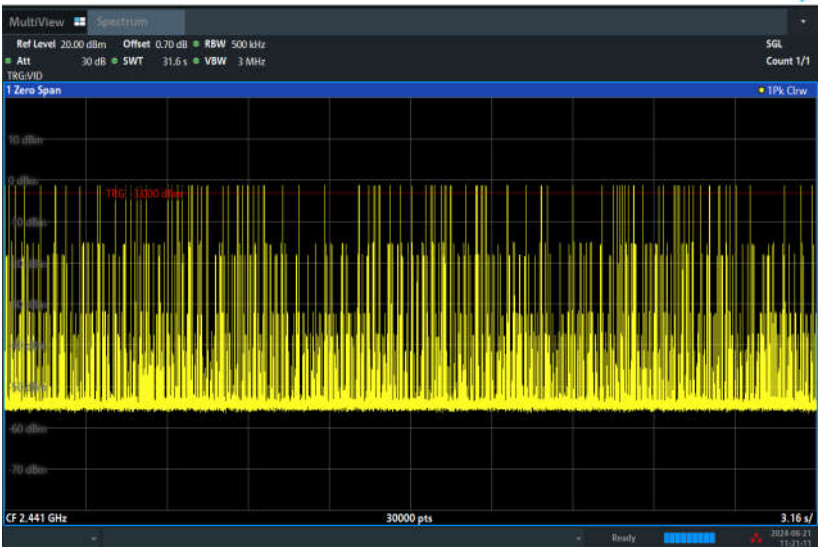
3DH3_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



3DH5_Ant1_Hop

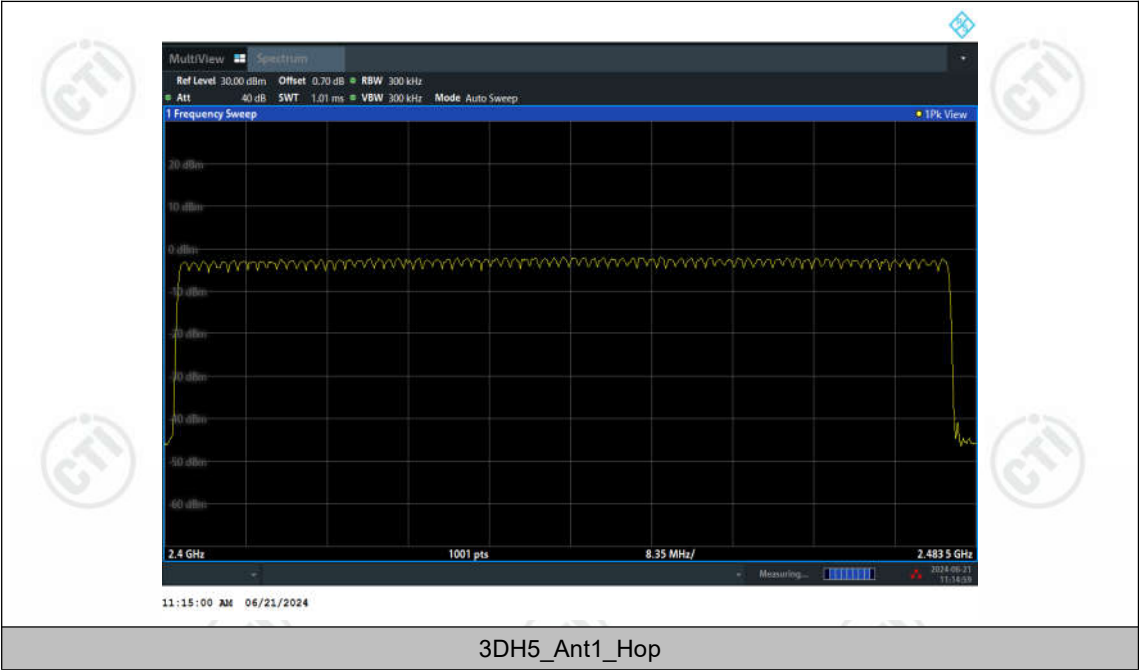
Appendix F: Number of hopping channels

Test Result

TestMode	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



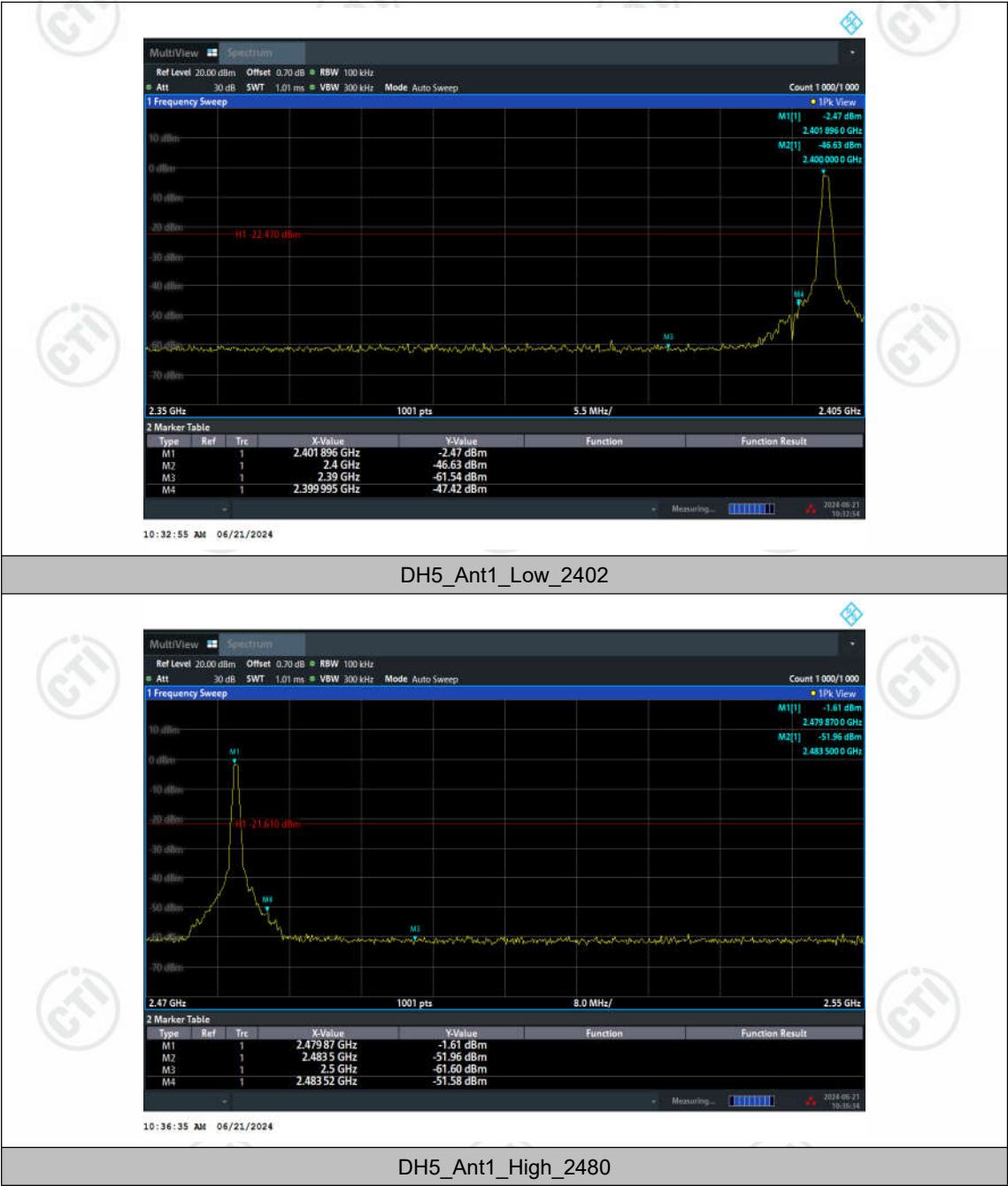


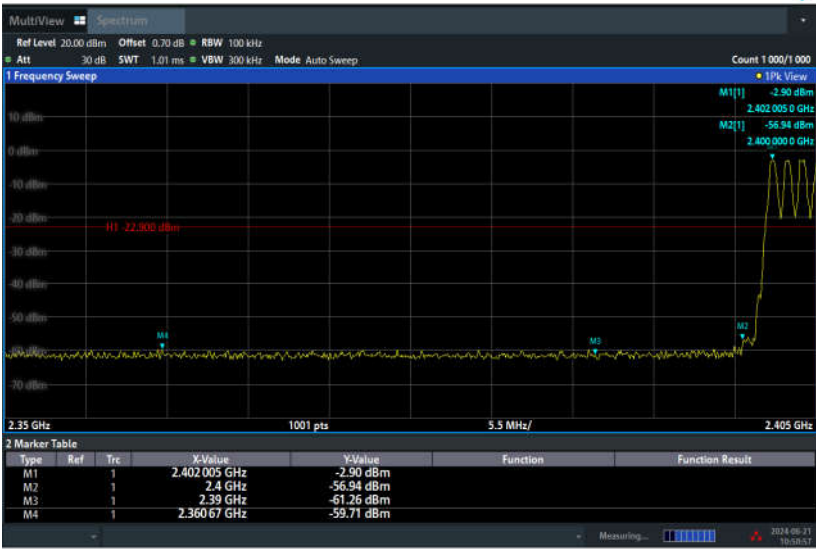
Appendix G: Band edge measurements

Test Result

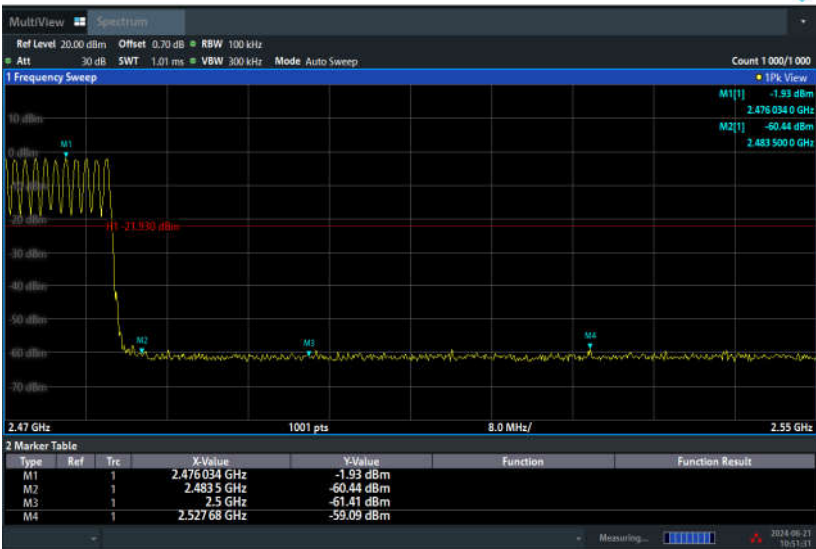
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.47	-47.42	≤-22.47	PASS
		High	2480	-1.61	-51.58	≤-21.61	PASS
		Low	Hop_2402	-2.90	-59.71	≤-22.9	PASS
		High	Hop_2480	-1.93	-59.09	≤-21.93	PASS
2DH5	Ant1	Low	2402	-2.57	-47.07	≤-22.57	PASS
		High	2480	-1.85	-54.56	≤-21.85	PASS
		Low	Hop_2402	-2.72	-58.83	≤-22.72	PASS
		High	Hop_2480	-1.83	-58.68	≤-21.83	PASS
3DH5	Ant1	Low	2402	-2.22	-47.3	≤-22.22	PASS
		High	2480	-1.34	-54.35	≤-21.34	PASS
		Low	Hop_2402	-2.18	-58.25	≤-22.18	PASS
		High	Hop_2480	-1.35	-57.76	≤-21.35	PASS

Test Graphs

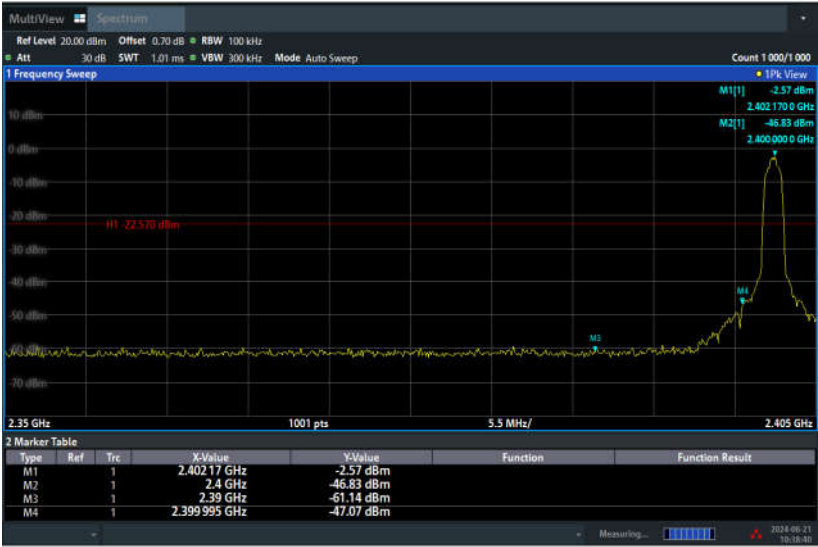




DH5_Ant1_Low_Hop_2402



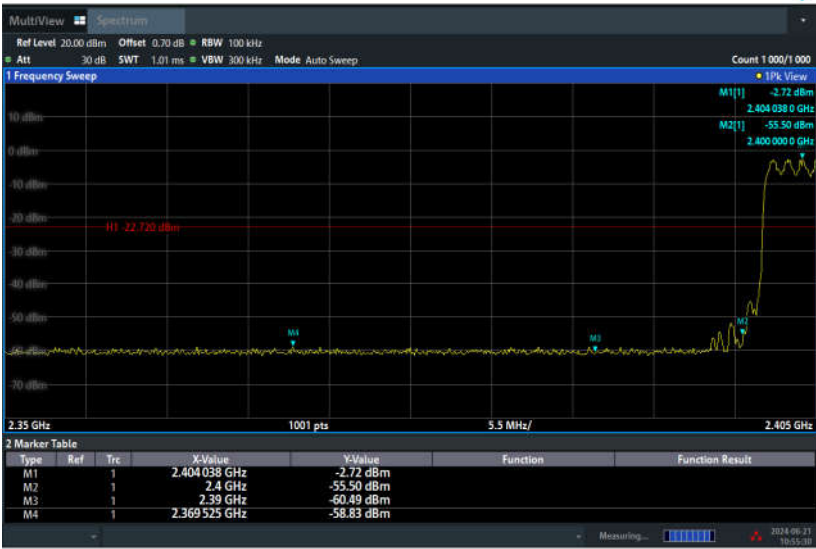
DH5_Ant1_High_Hop_2480



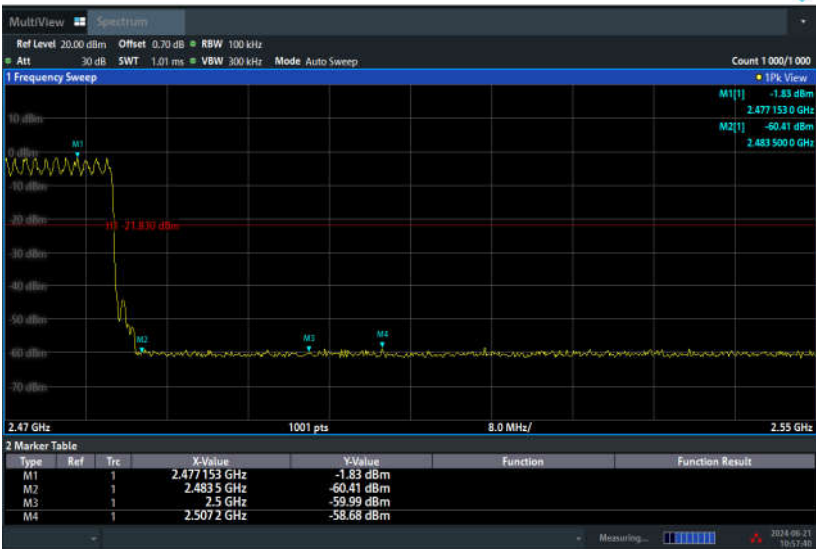
2DH5_Ant1_Low_2402



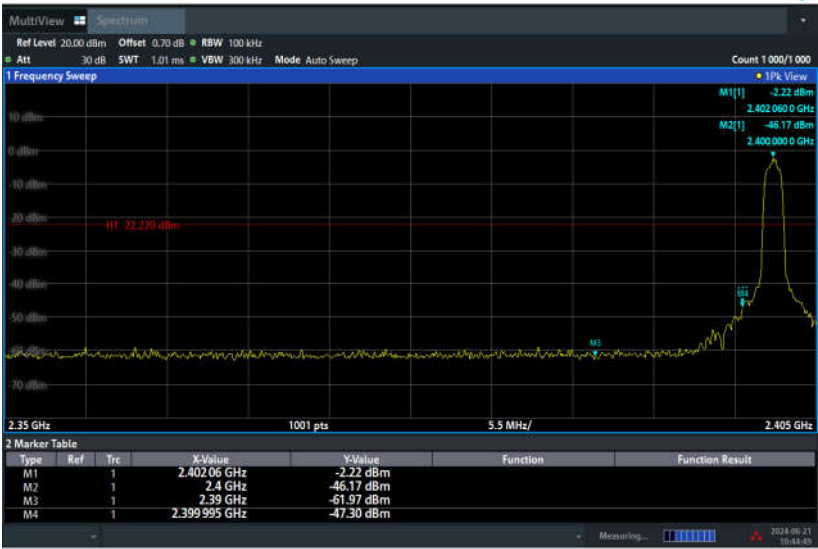
2DH5_Ant1_High_2480



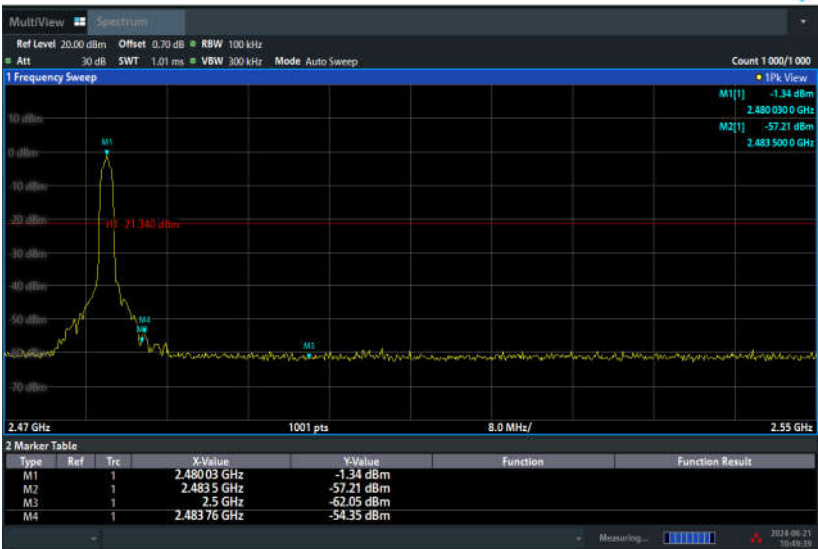
2DH5_Ant1_Low_Hop_2402



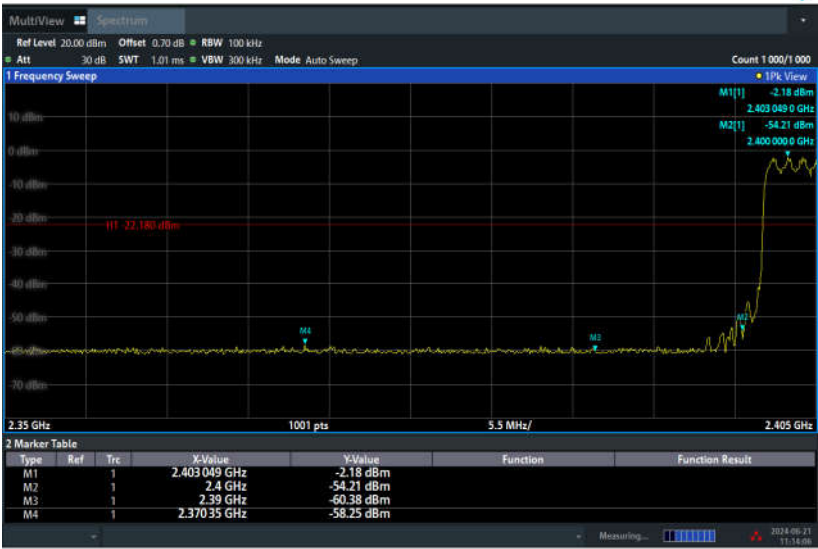
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



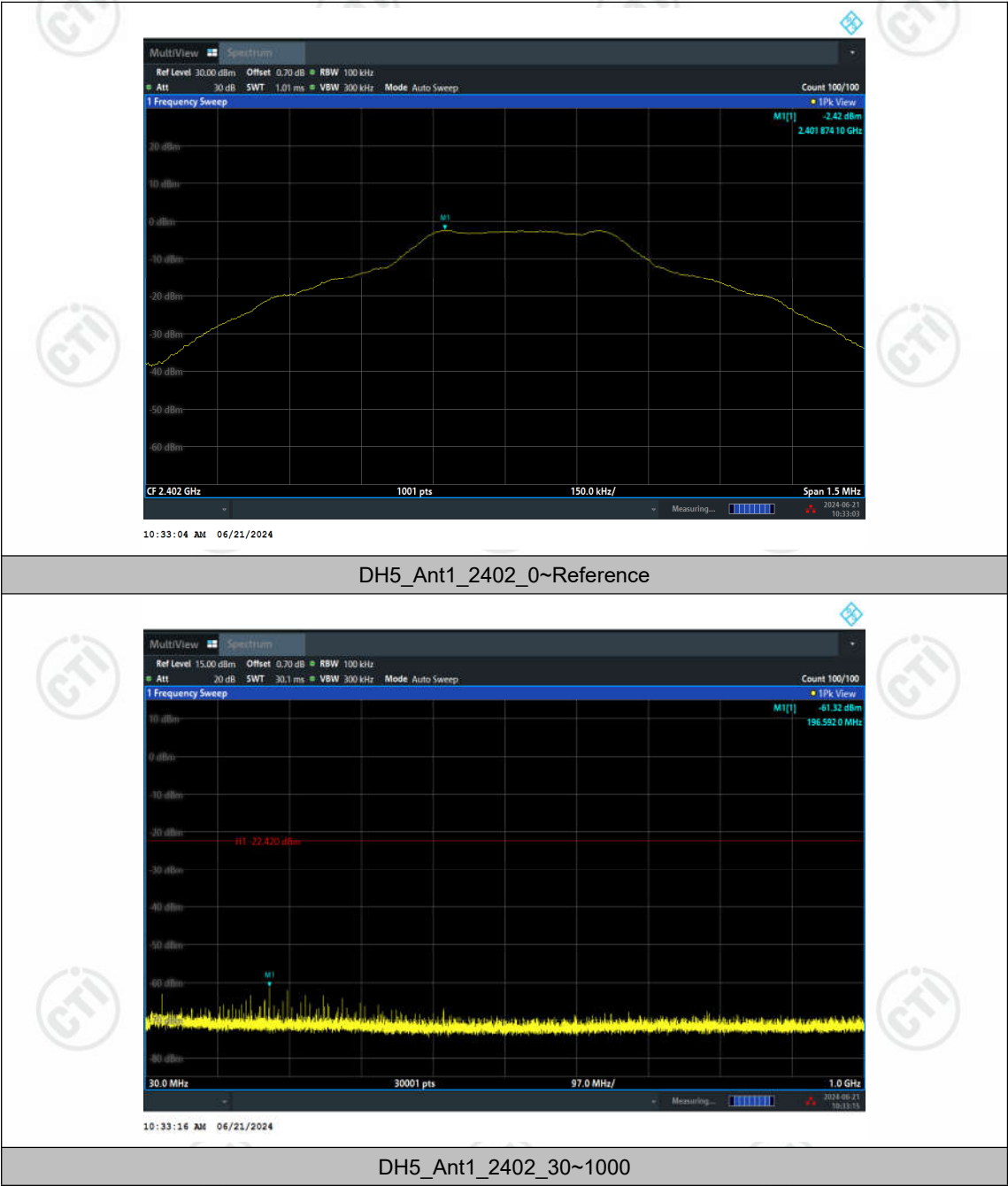
3DH5_Ant1_High_Hop_2480

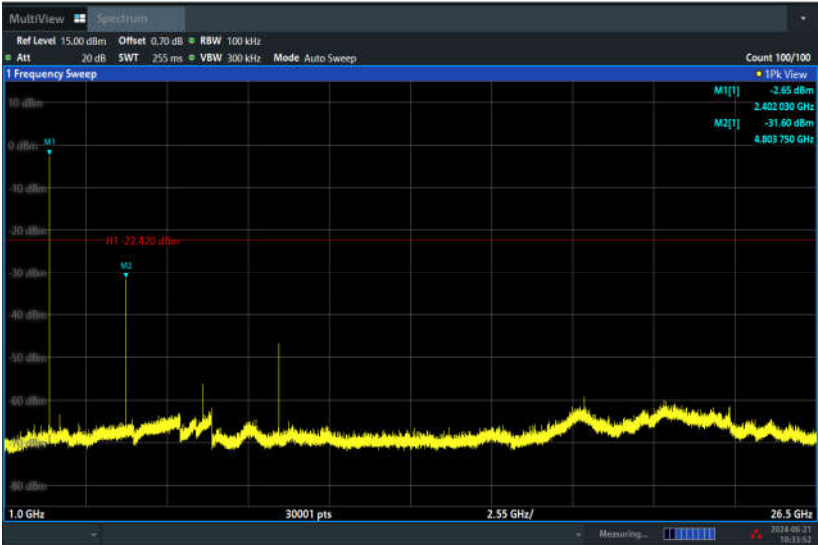
Appendix H: Conducted Spurious Emission

Test Result

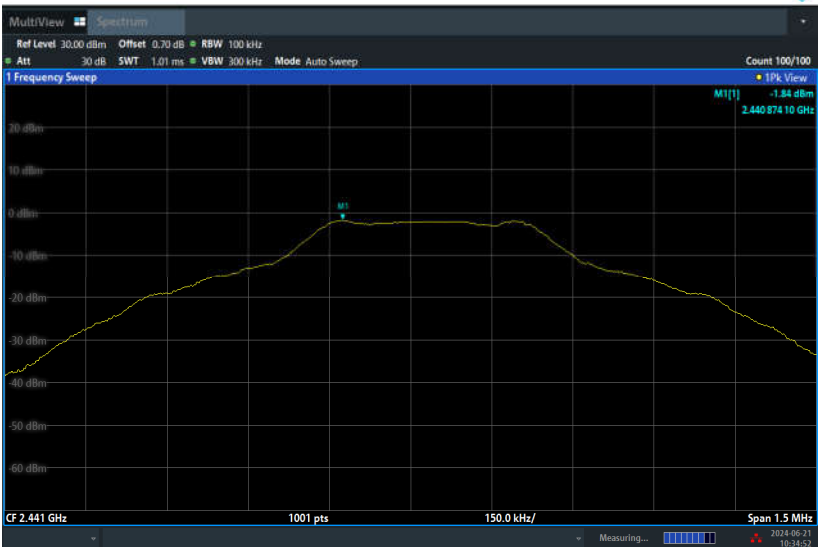
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-61.32	≤ -22.42	PASS
			1000~26500	-2.42	-31.6	≤ -22.42	PASS
		2441	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-62.09	≤ -21.84	PASS
			1000~26500	-1.84	-30.66	≤ -21.84	PASS
		2480	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-61.96	≤ -21.6	PASS
			1000~26500	-1.60	-29.68	≤ -21.6	PASS
2DH5	Ant1	2402	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-61.74	≤ -22.56	PASS
			1000~26500	-2.56	-32.45	≤ -22.56	PASS
		2441	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-62.09	≤ -21.98	PASS
			1000~26500	-1.98	-30.74	≤ -21.98	PASS
		2480	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-61.9	≤ -21.74	PASS
			1000~26500	-1.74	-29.6	≤ -21.74	PASS
3DH5	Ant1	2402	Reference	-2.16	-2.16	---	PASS
			30~1000	-2.16	-62.1	≤ -22.16	PASS
			1000~26500	-2.16	-30.91	≤ -22.16	PASS
		2441	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-61.87	≤ -21.55	PASS
			1000~26500	-1.55	-30.56	≤ -21.55	PASS
		2480	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-61.69	≤ -21.31	PASS
			1000~26500	-1.31	-29.75	≤ -21.31	PASS

Test Graphs

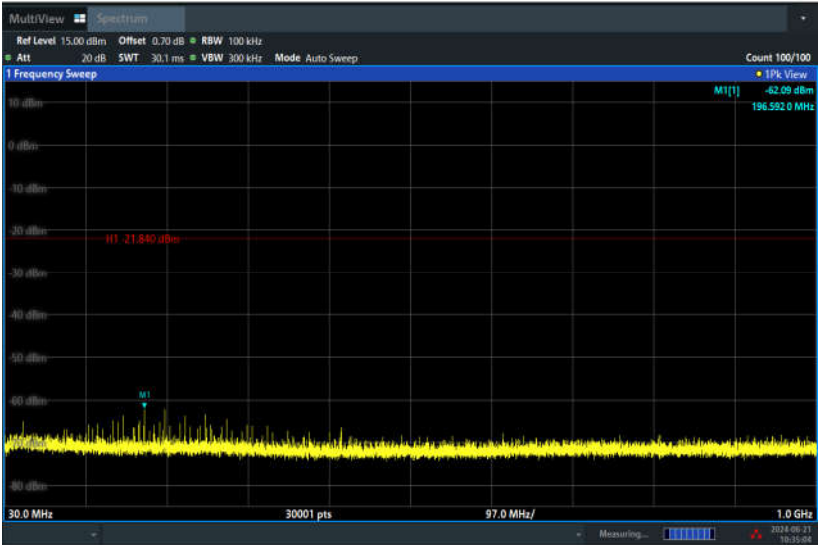




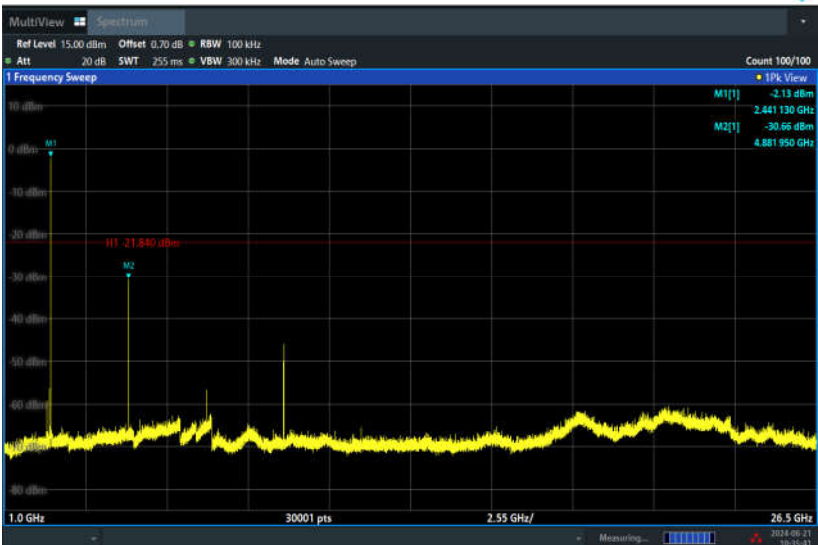
DH5_Ant1_2402_1000~26500



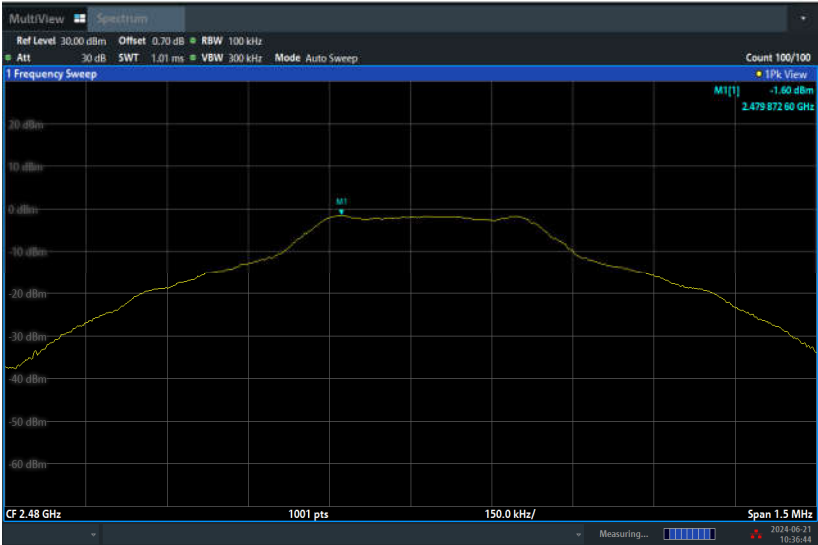
DH5_Ant1_2441_0~Reference



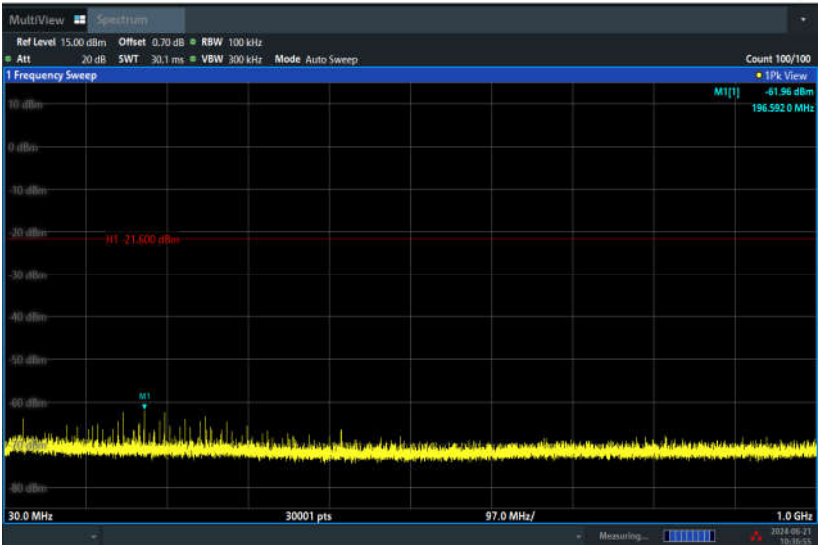
DH5_Ant1_2441_30~1000



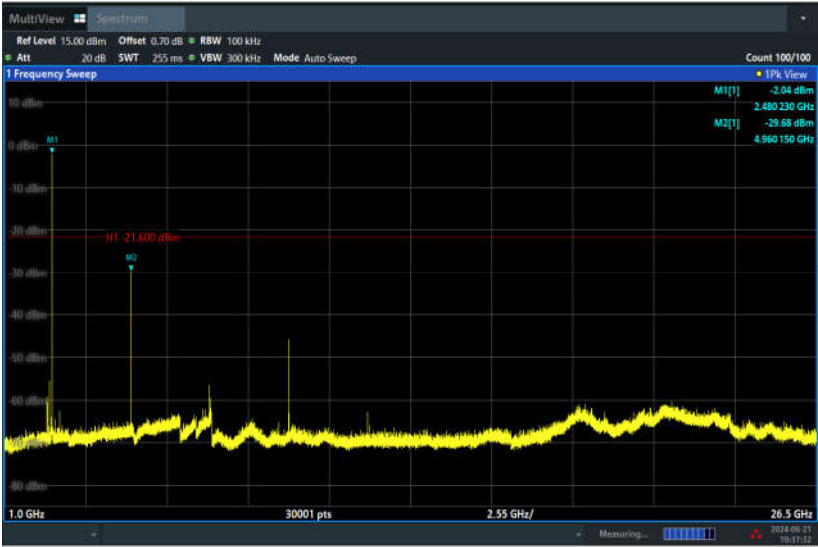
DH5_Ant1_2441_1000~26500



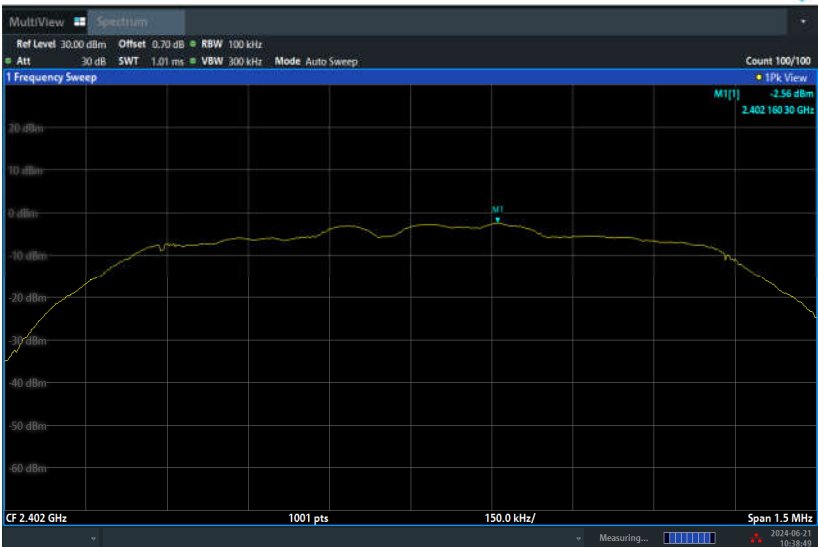
DH5_Ant1_2480_0~Reference



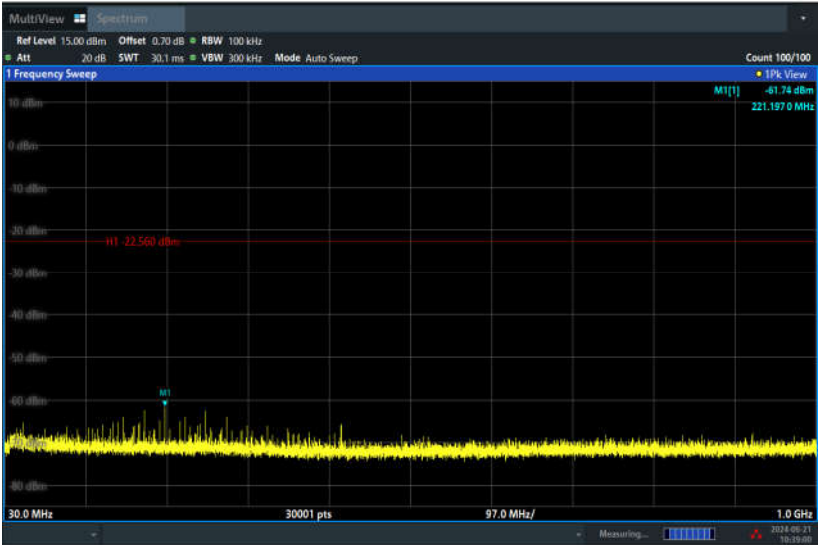
DH5_Ant1_2480_30~1000



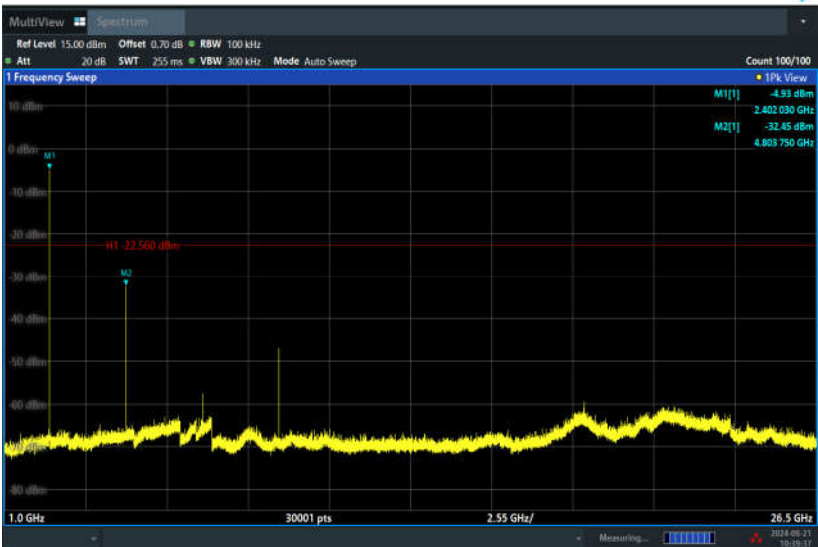
DH5_Ant1_2480_1000~26500



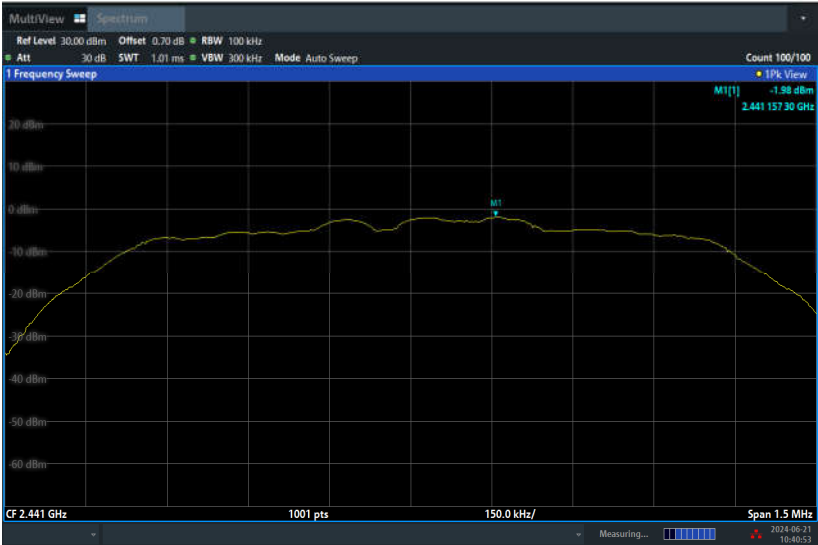
2DH5_Ant1_2402_0~Reference



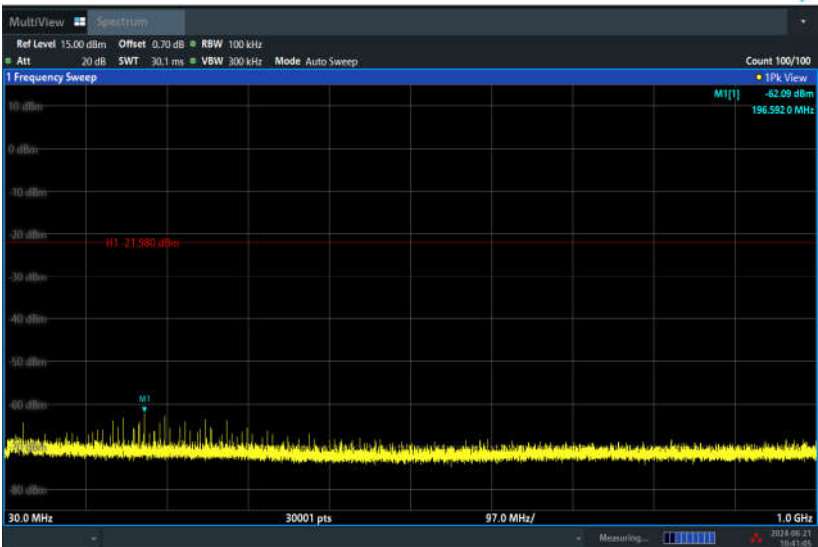
2DH5_Ant1_2402_30~1000



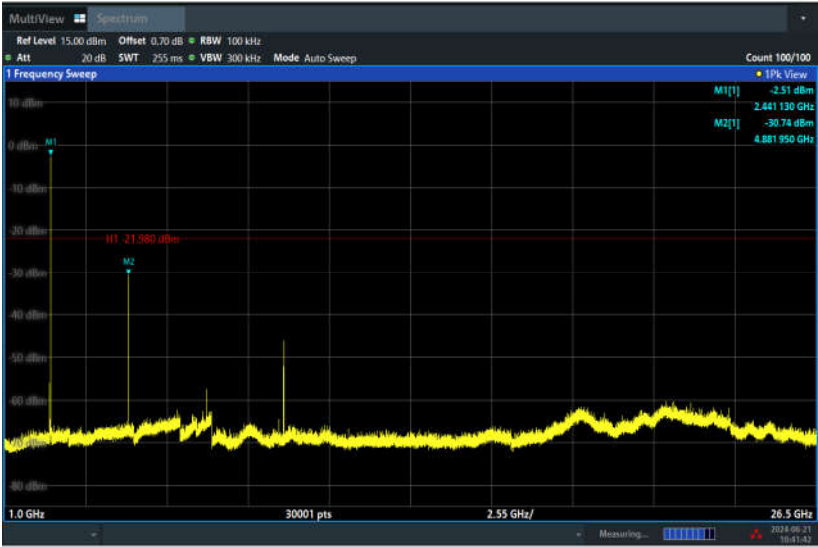
2DH5_Ant1_2402_1000~26500



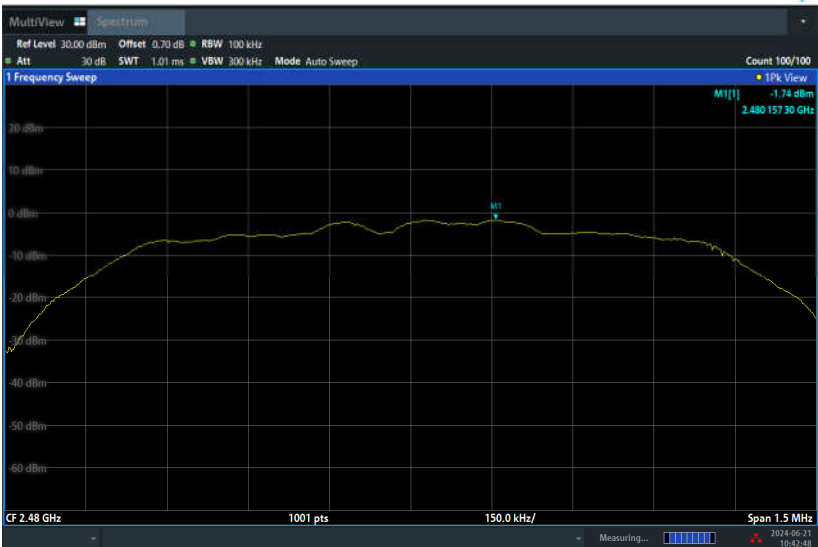
2DH5_Ant1_2441_0~Reference



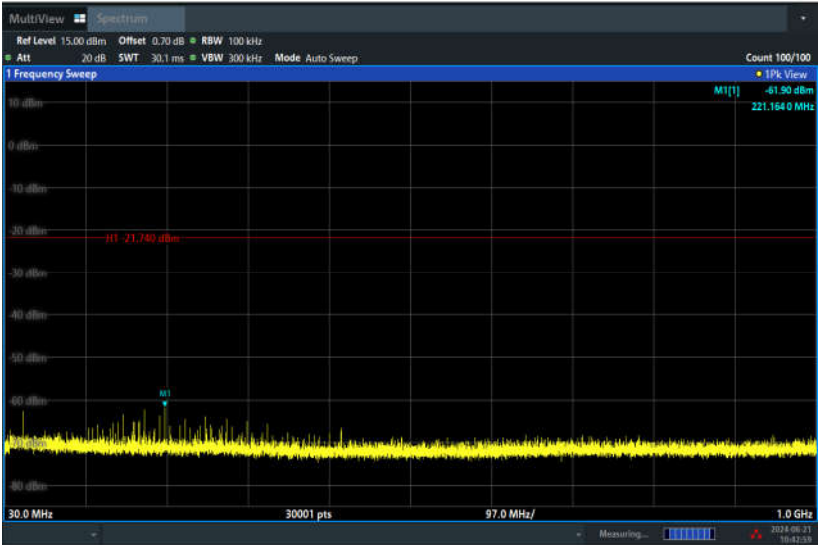
2DH5_Ant1_2441_30~1000



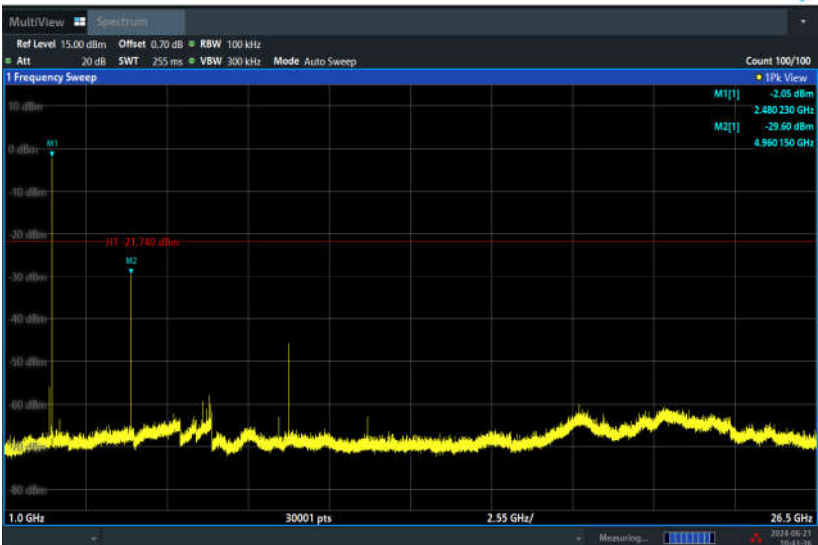
2DH5_Ant1_2441_1000~26500



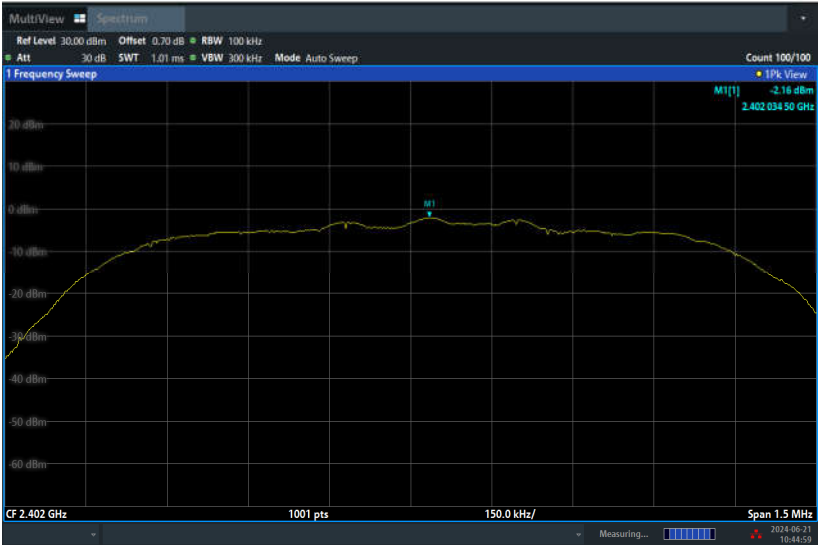
2DH5_Ant1_2480_0~Reference



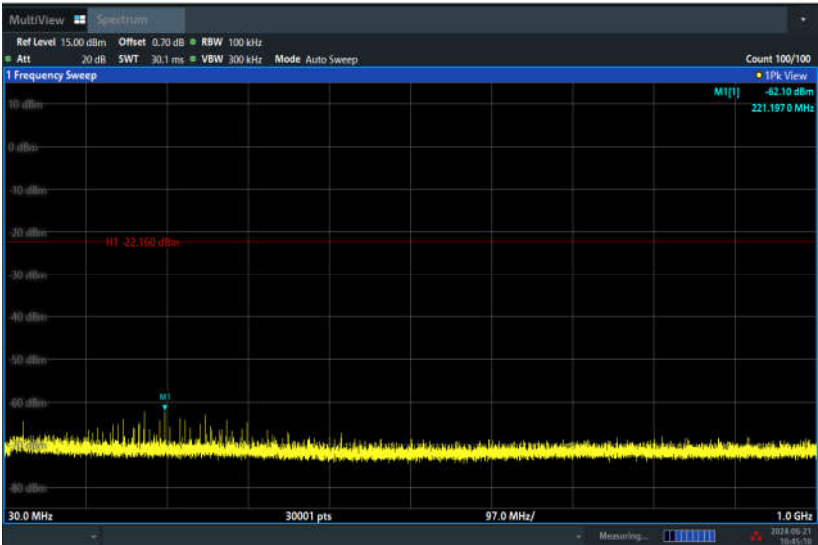
2DH5_Ant1_2480_30~1000



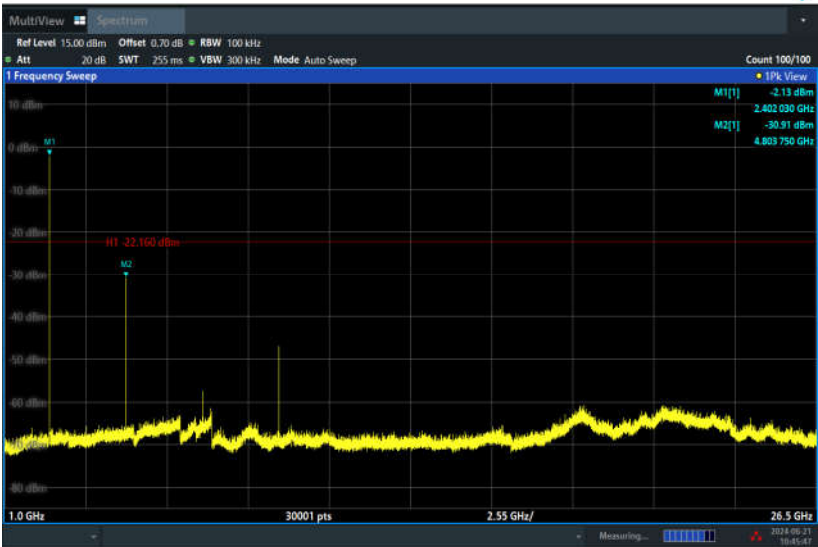
2DH5_Ant1_2480_1000~26500



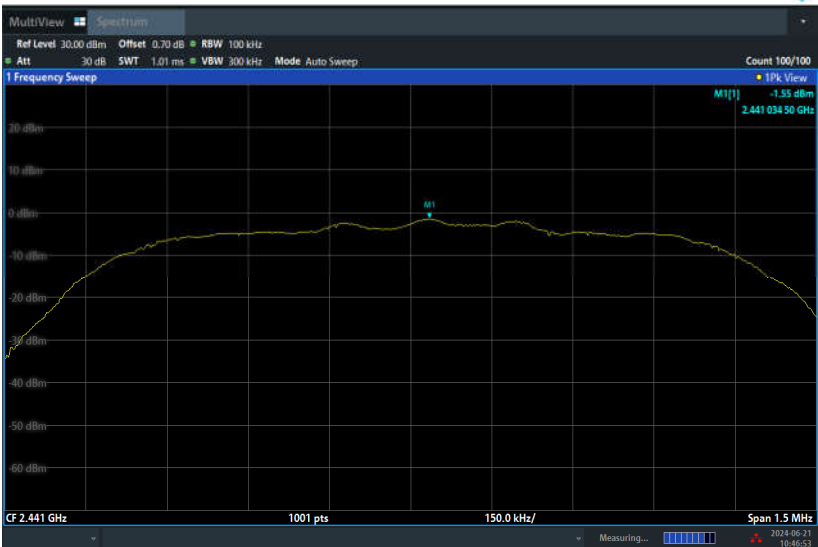
3DH5_Ant1_2402_0~Reference



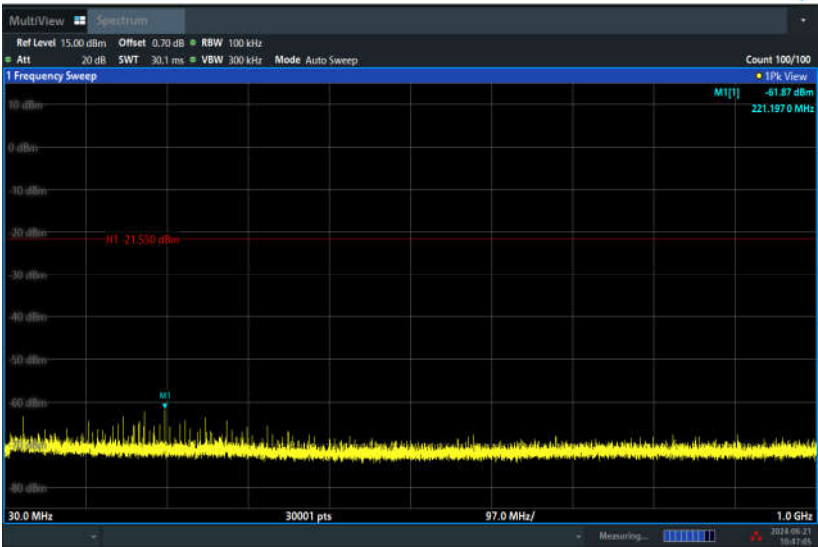
3DH5_Ant1_2402_30~1000



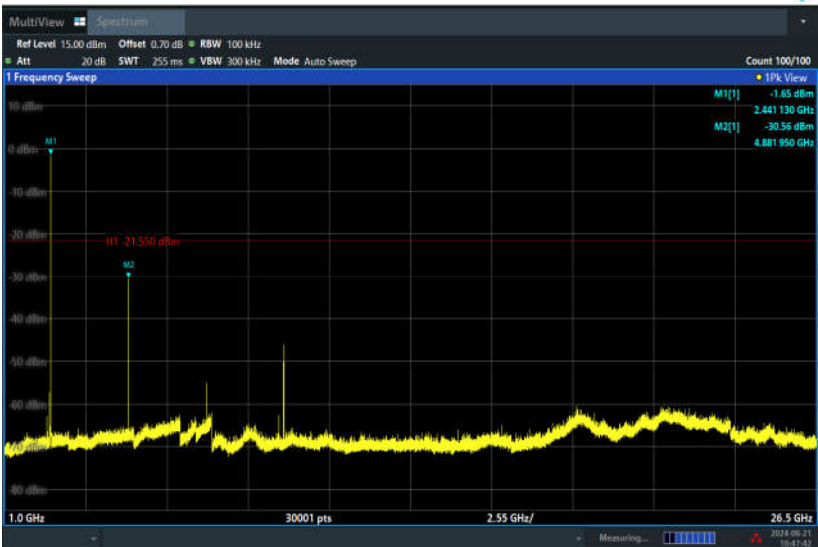
3DH5_Ant1_2402_1000~26500



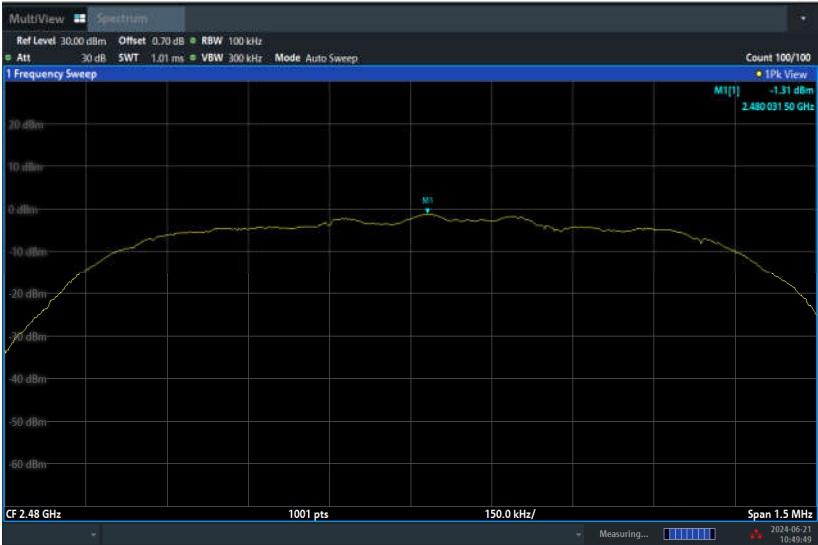
3DH5_Ant1_2441_0~Reference



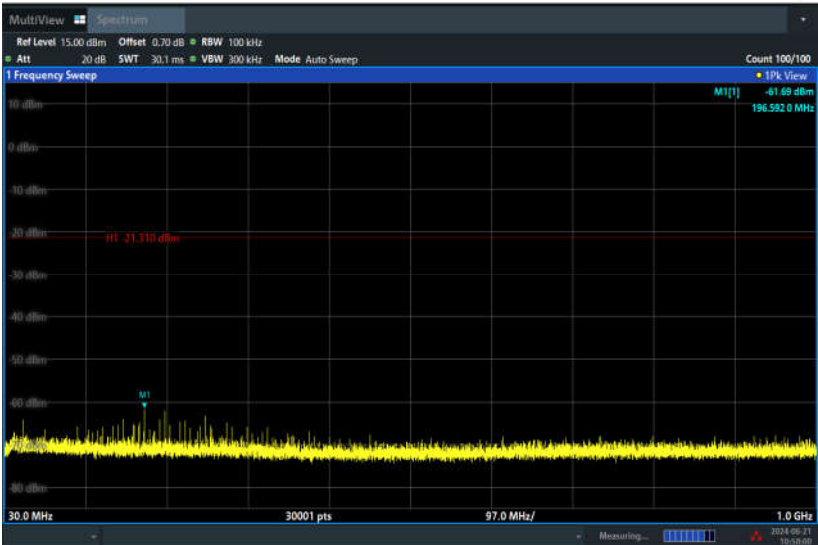
3DH5_Ant1_2441_30~1000



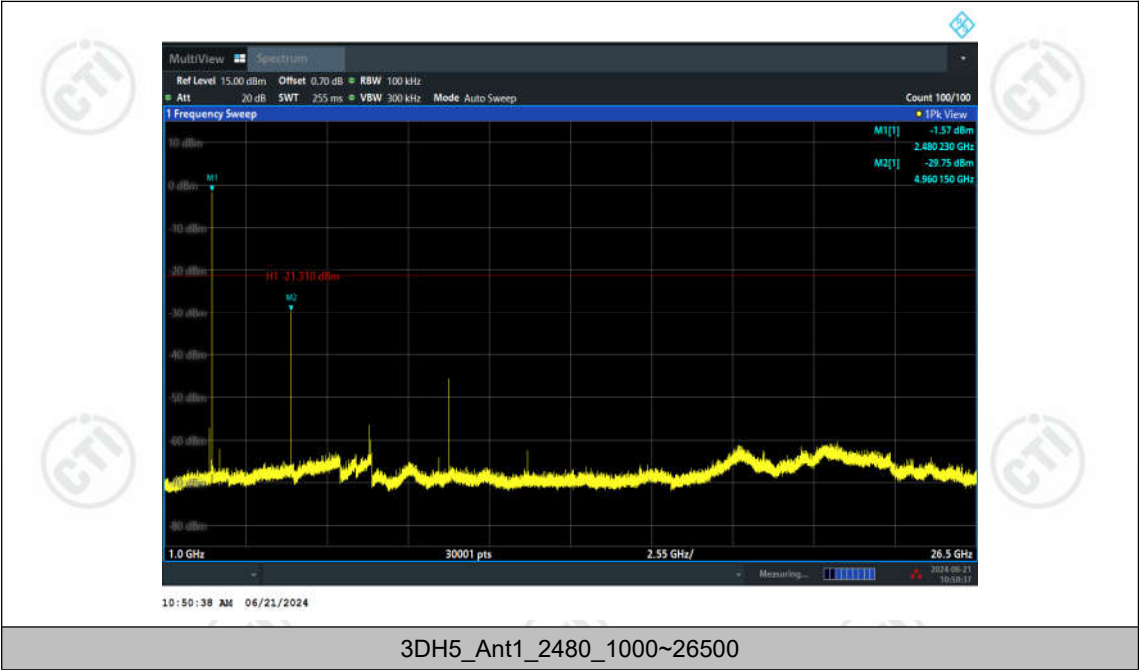
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



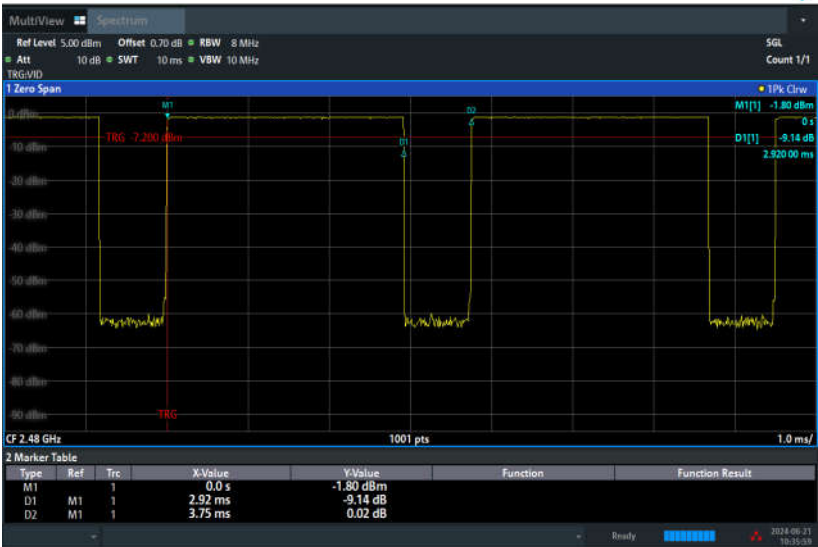
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.92	3.76	77.66	1.10
		2441	2.92	3.75	77.87	1.09
		2480	2.92	3.75	77.87	1.09
2DH5	Ant1	2402	2.92	3.75	77.87	1.09
		2441	2.92	3.75	77.87	1.09
		2480	2.92	3.75	77.87	1.09
3DH5	Ant1	2402	2.93	3.76	77.93	1.08
		2441	2.93	3.75	78.13	1.07
		2480	2.92	3.75	77.87	1.09

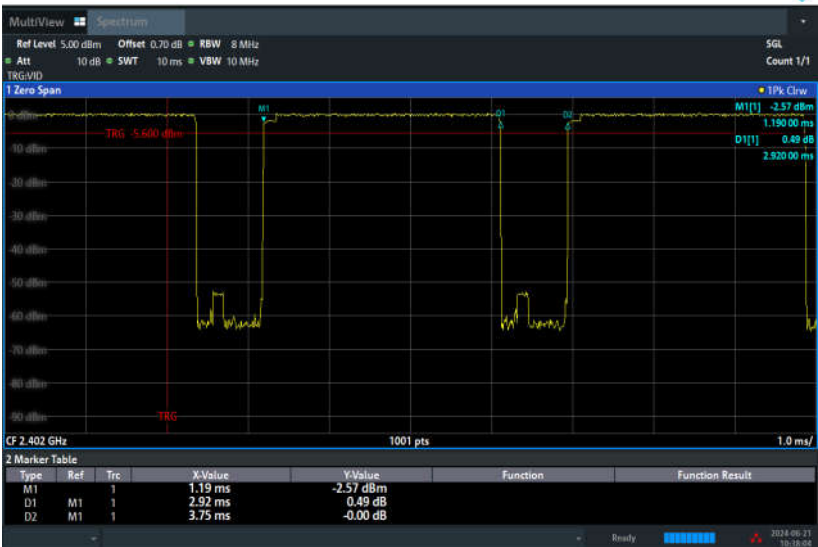
Test Graphs





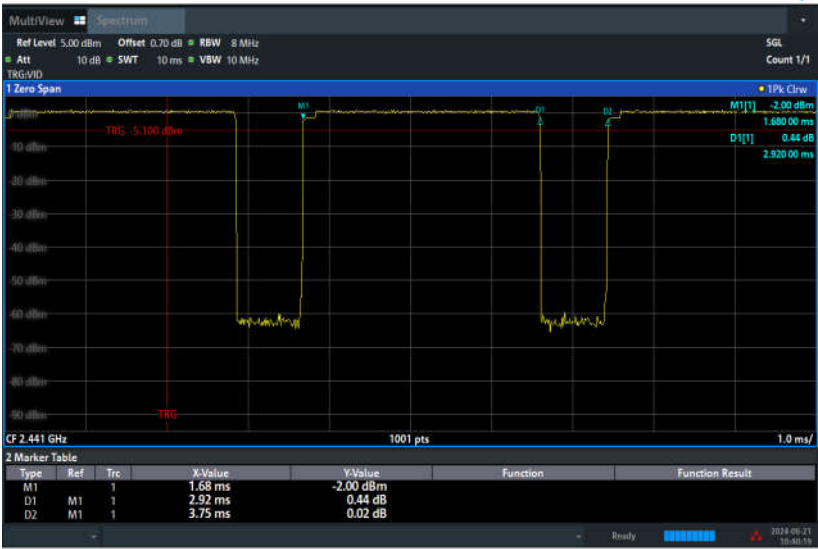
10:36:00 AM 06/21/2024

DH5_Ant1_2480

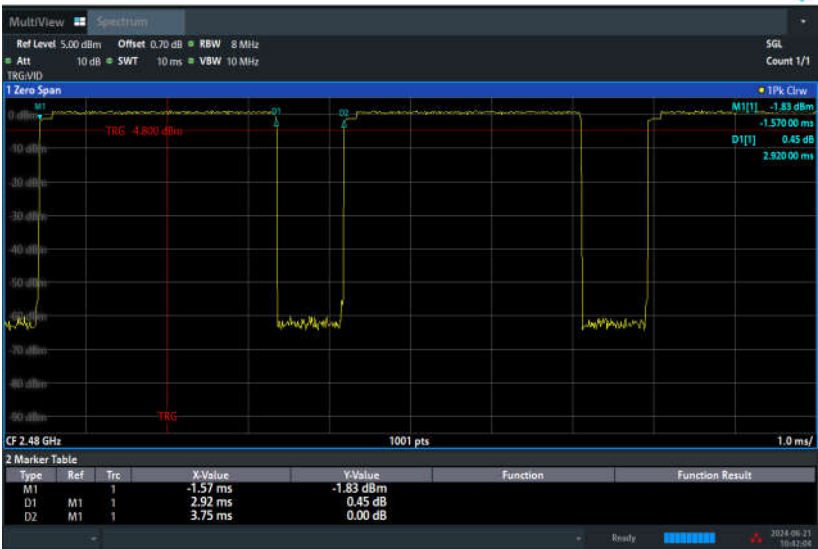


10:38:04 AM 06/21/2024

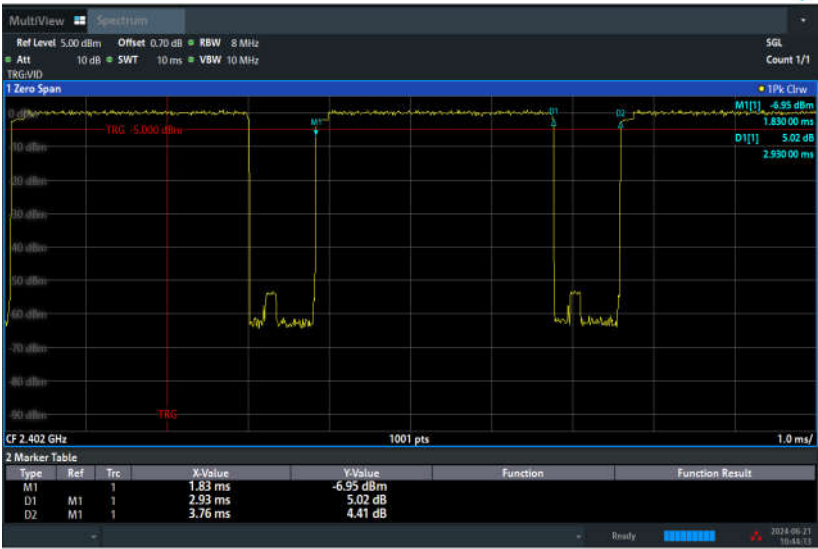
2DH5_Ant1_2402



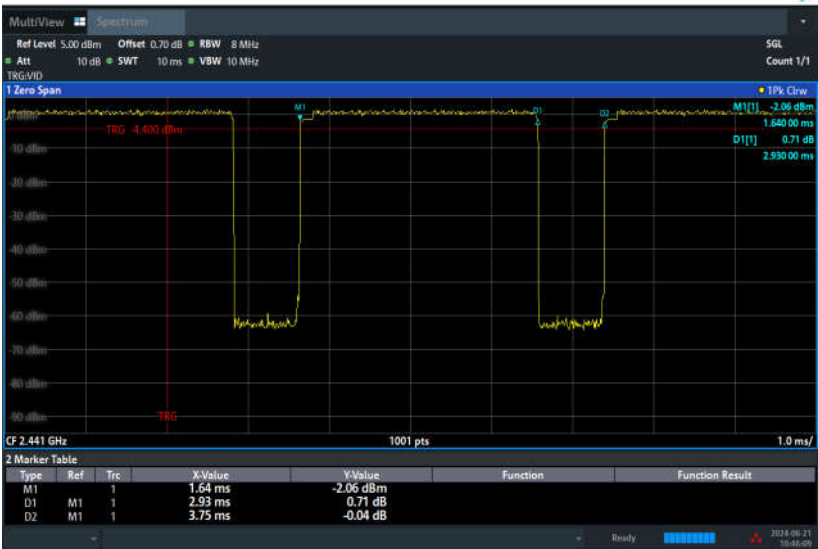
2DH5_Ant1_2441



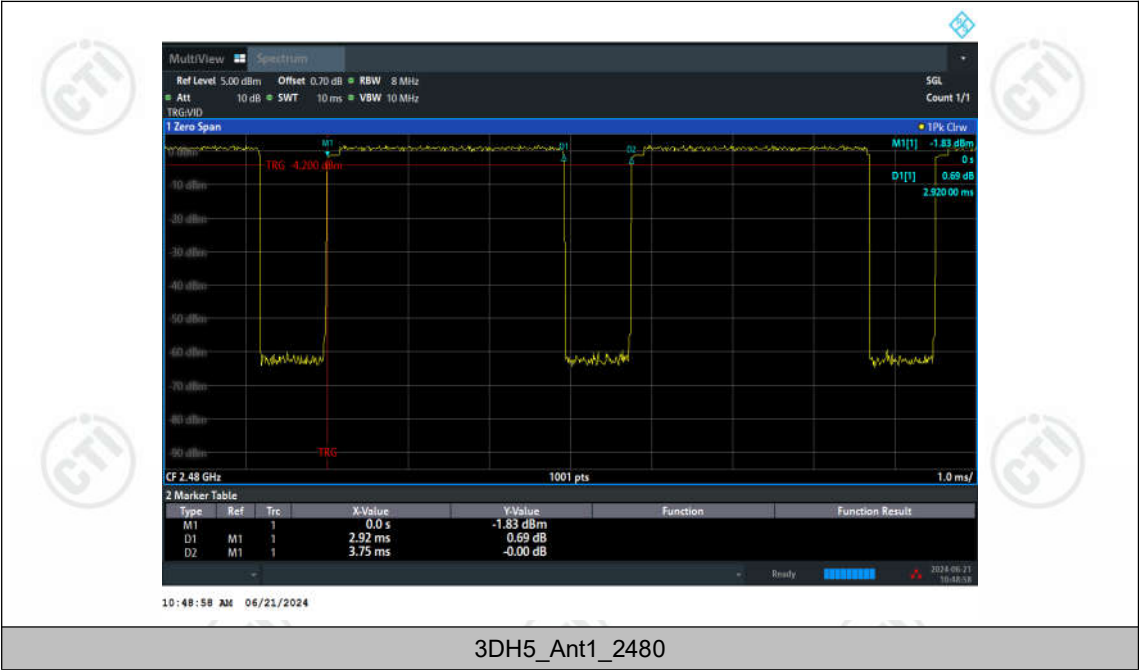
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



*** End of Report ***