

Appendix: Bluetooth Classic

Contents

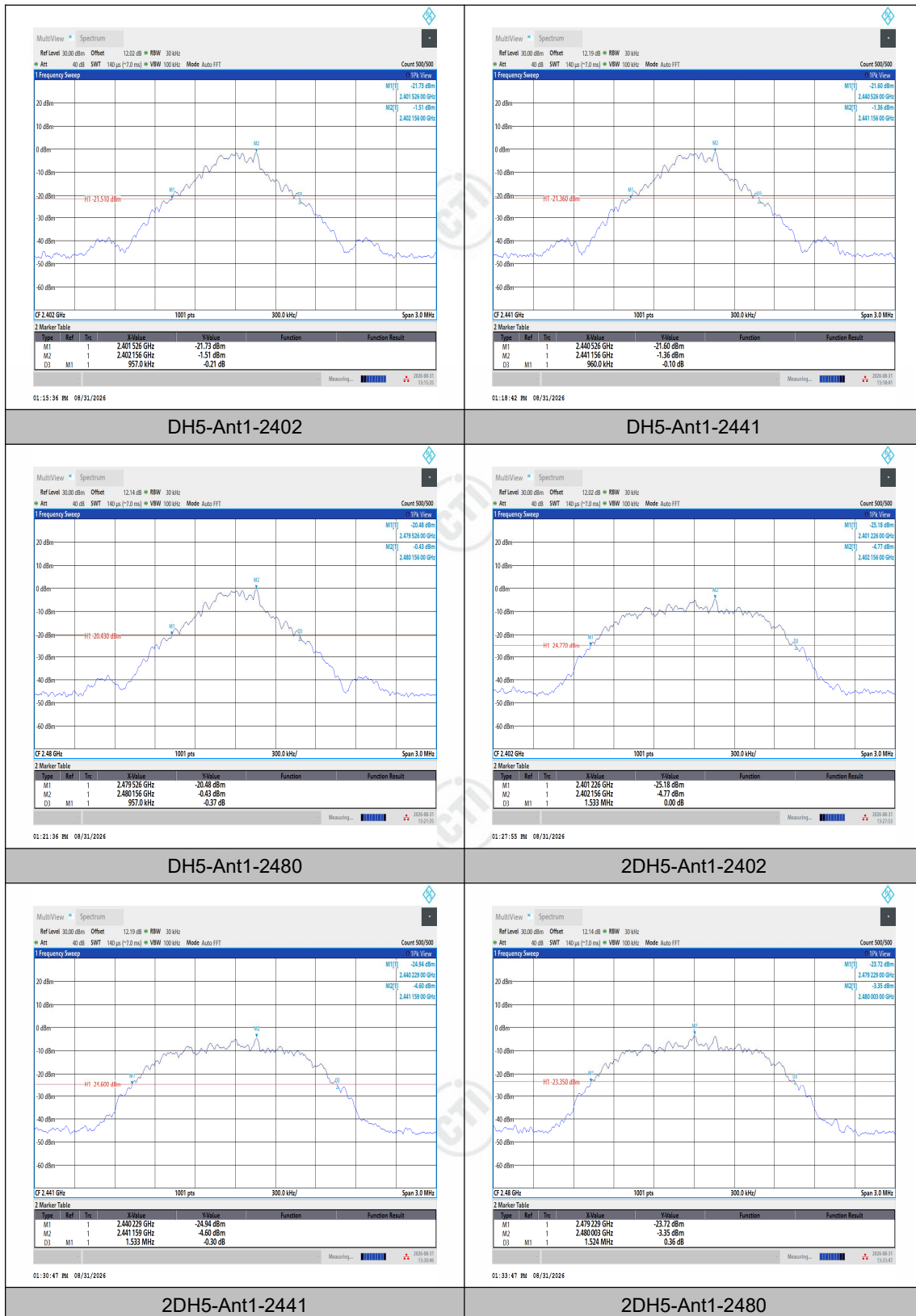
Appendix A: 20dB Emission Bandwidth	3
Test Result	3
Test Graphs	4
Appendix B: Occupied Channel Bandwidth	5
Test Result	5
Test Graphs	6
Appendix C: Maximum conducted output power	7
Test Result Peak	7
Test Graphs	8
Appendix D: Carrier frequency separation	9
Test Result	9
Test Graphs	10
Appendix E: Time of occupancy	11
Test Result	11
Test Graphs	12
Appendix F: Number of hopping channels	13
Test Result	13
Test Graphs	14
Appendix G: Band edge measurements	15
Test Result	15
Test Graphs	16
Appendix H: Conducted Spurious Emission	18
Test Result	18
Test Graphs	19
Appendix I: Duty Cycle	23
Test Result	23
Test Graphs	24

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96	2401.53	2402.48	---	---
DH5	Ant1	2441	0.96	2440.53	2441.49	---	---
DH5	Ant1	2480	0.96	2479.53	2480.48	---	---
2DH5	Ant1	2402	1.53	2401.23	2402.76	---	---
2DH5	Ant1	2441	1.53	2440.23	2441.76	---	---
2DH5	Ant1	2480	1.52	2479.23	2480.75	---	---

Test Graphs

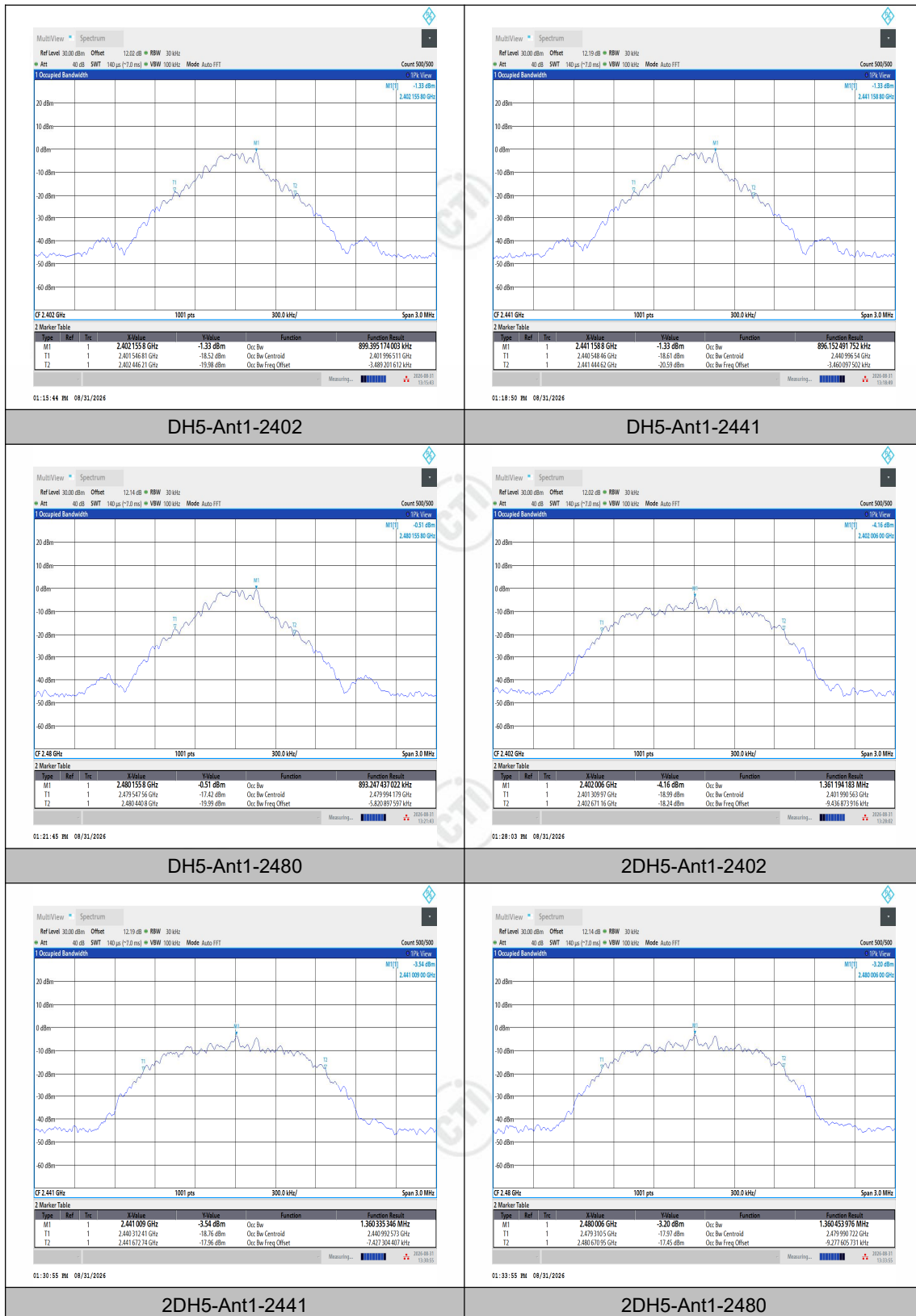


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89940	2401.5468	2402.4462	---	---
DH5	Ant1	2441	0.89615	2440.5485	2441.4446	---	---
DH5	Ant1	2480	0.89325	2479.5476	2480.4408	---	---
2DH5	Ant1	2402	1.3612	2401.3100	2402.6712	---	---
2DH5	Ant1	2441	1.3603	2440.3124	2441.6727	---	---
2DH5	Ant1	2480	1.3605	2479.3105	2480.6709	---	---

Test Graphs

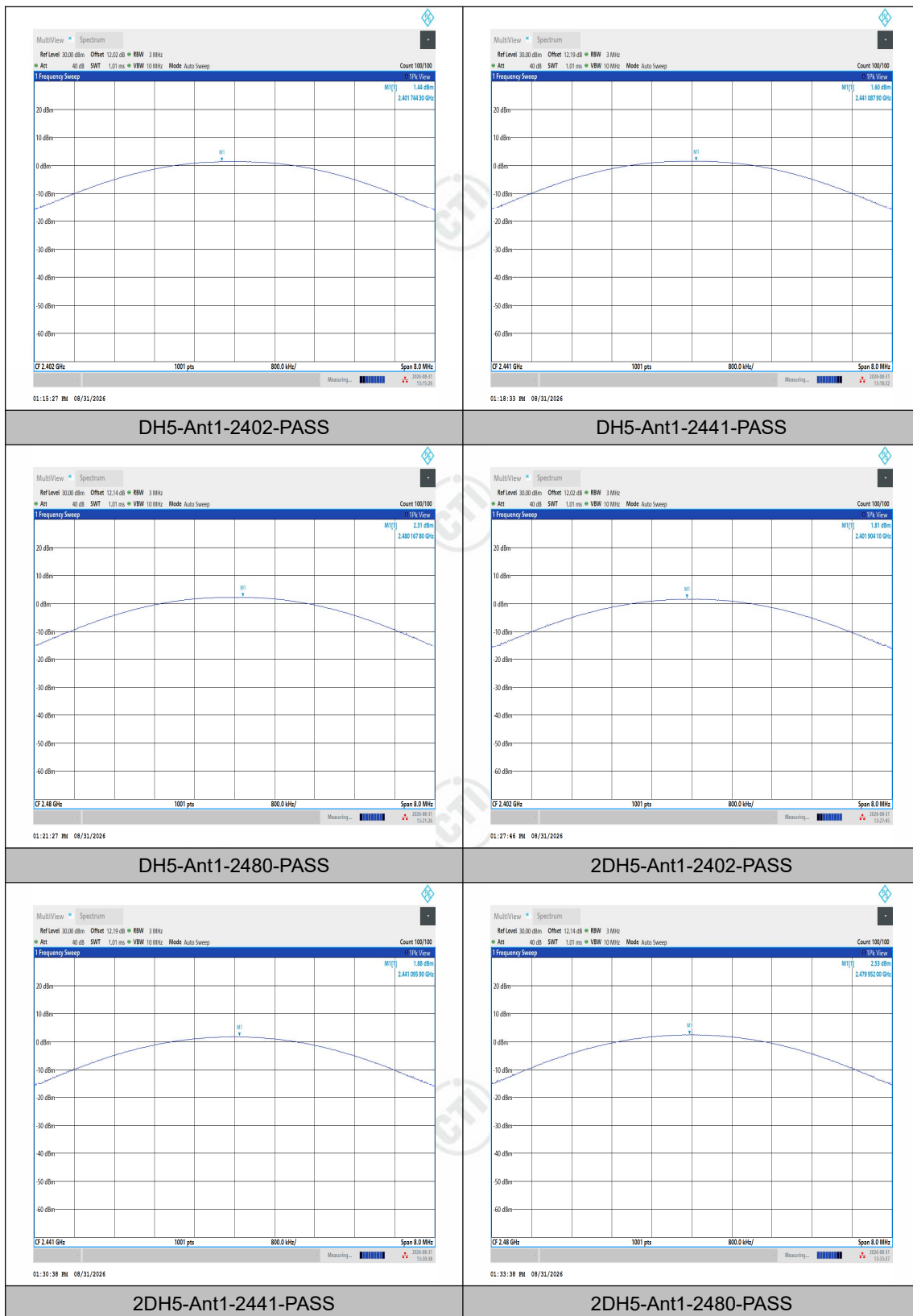


Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	Verdict
DH5	Ant1	2402	1.44	≤30	-2.78	PASS
DH5	Ant1	2441	1.60	≤30	-2.62	PASS
DH5	Ant1	2480	2.31	≤30	-1.91	PASS
2DH5	Ant1	2402	1.81	≤20.97	-2.41	PASS
2DH5	Ant1	2441	1.88	≤20.97	-2.34	PASS
2DH5	Ant1	2480	2.53	≤20.97	-1.69	PASS

Test Graphs

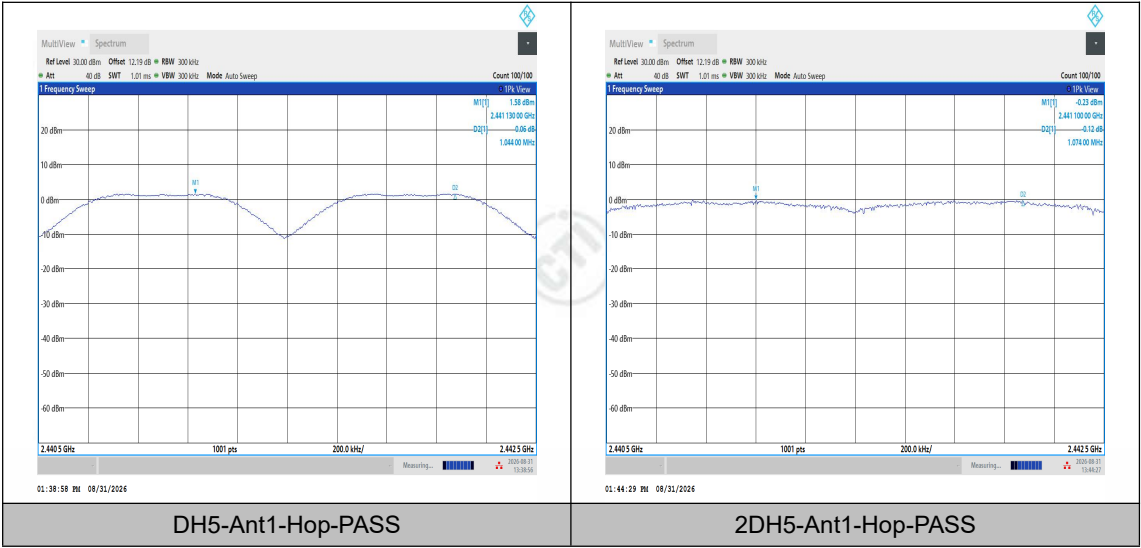


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.044	≥0.960	PASS
2DH5	Ant1	Hop	1.074	≥1.020	PASS

Test Graphs

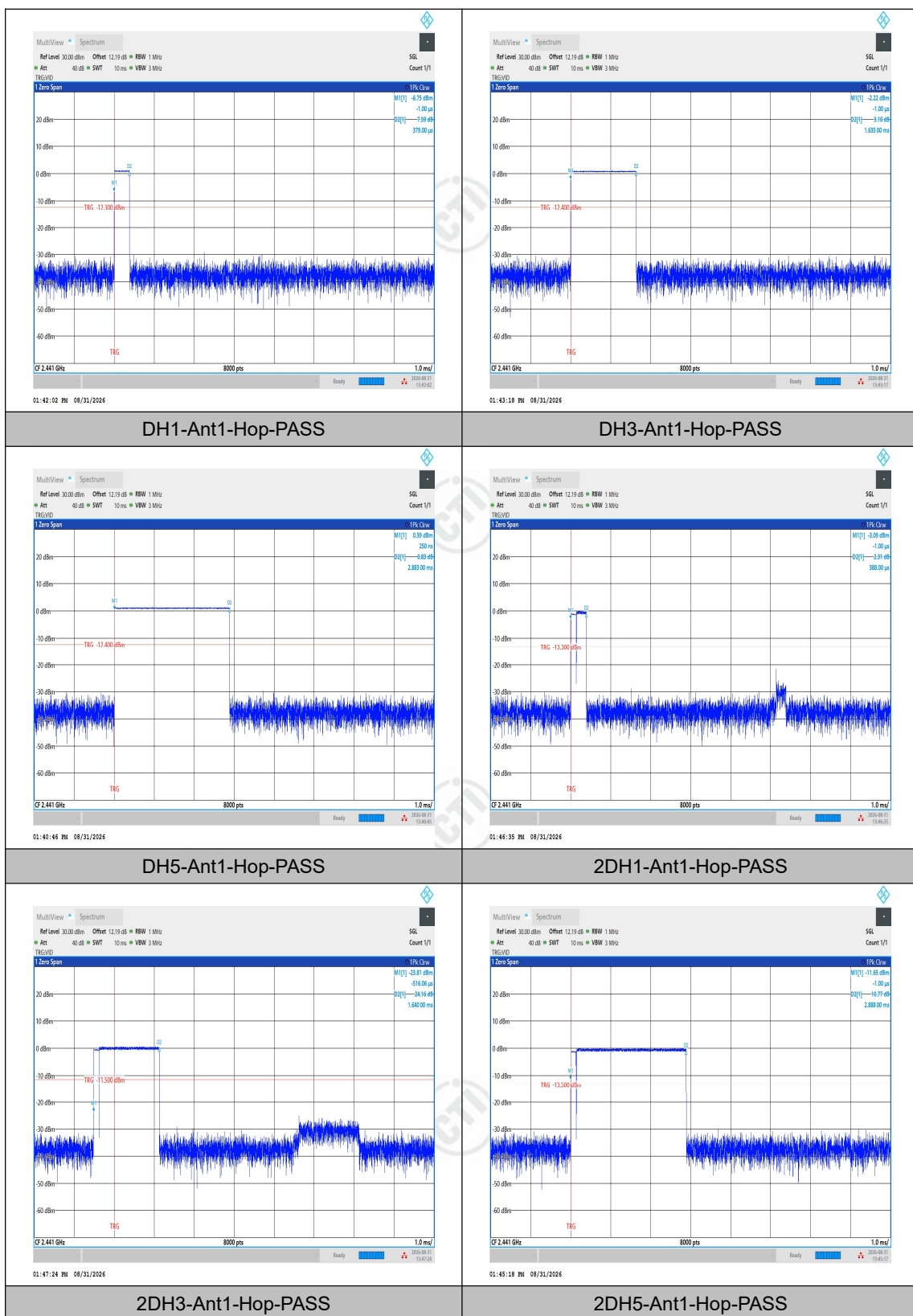


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.888	106.67	0.308	≤0.4	PASS

Test Graphs

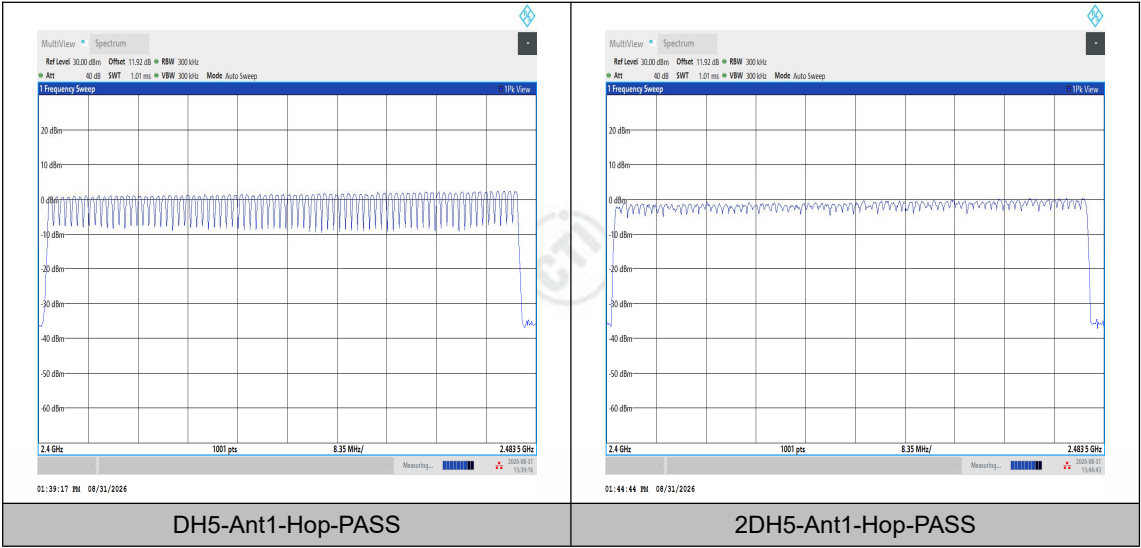


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

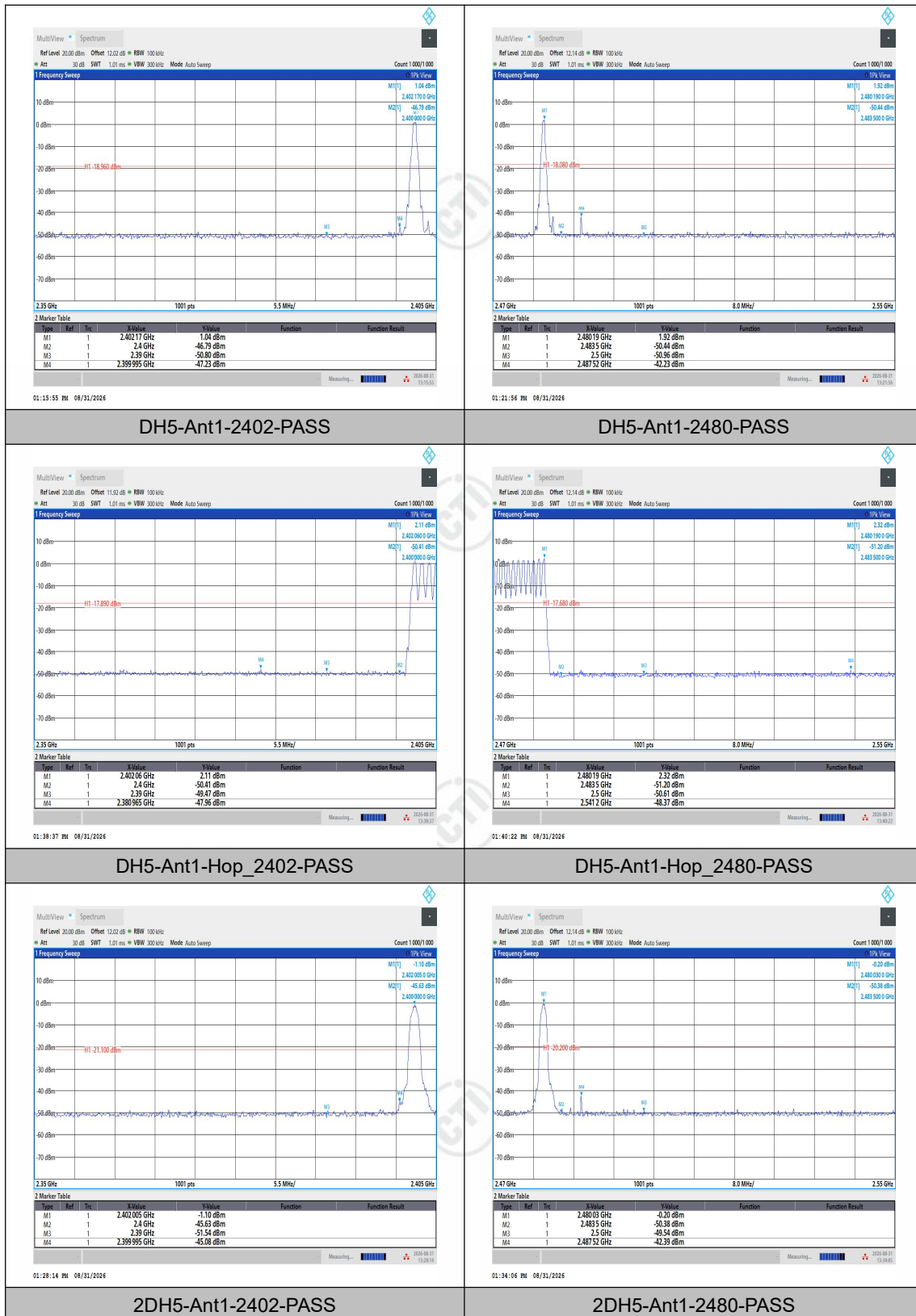


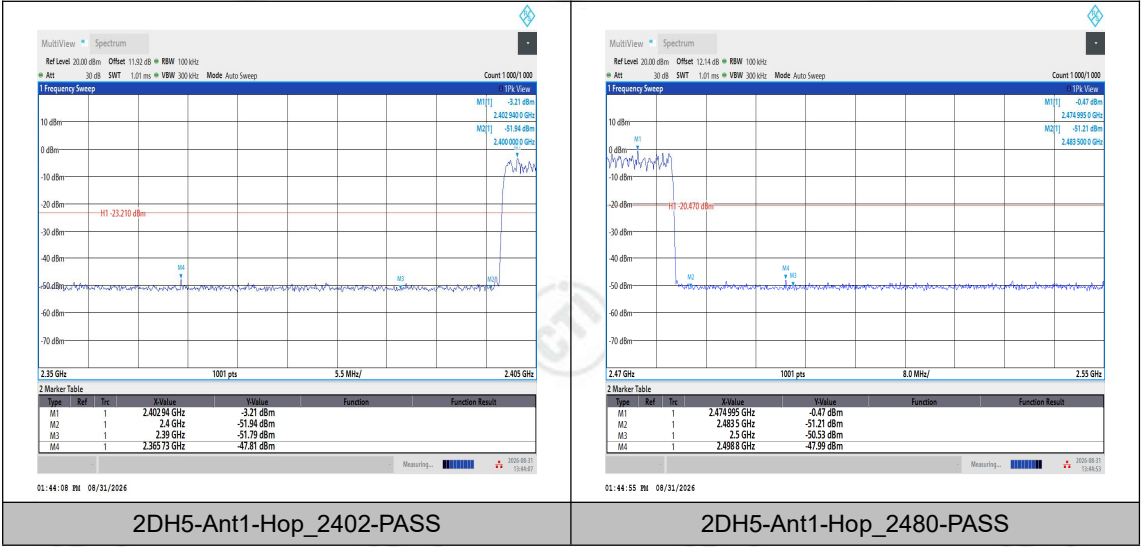
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.04	-47.23	≤-18.96	PASS
DH5	Ant1	High	2480	1.92	-42.23	≤-18.08	PASS
DH5	Ant1	Low	Hop_2402	2.11	-47.96	≤-17.89	PASS
DH5	Ant1	High	Hop_2480	2.32	-48.37	≤-17.68	PASS
2DH5	Ant1	Low	2402	-1.10	-45.08	≤-21.1	PASS
2DH5	Ant1	High	2480	-0.20	-42.39	≤-20.2	PASS
2DH5	Ant1	Low	Hop_2402	-3.21	-47.81	≤-23.21	PASS
2DH5	Ant1	High	Hop_2480	-0.47	-47.99	≤-20.47	PASS

Test Graphs



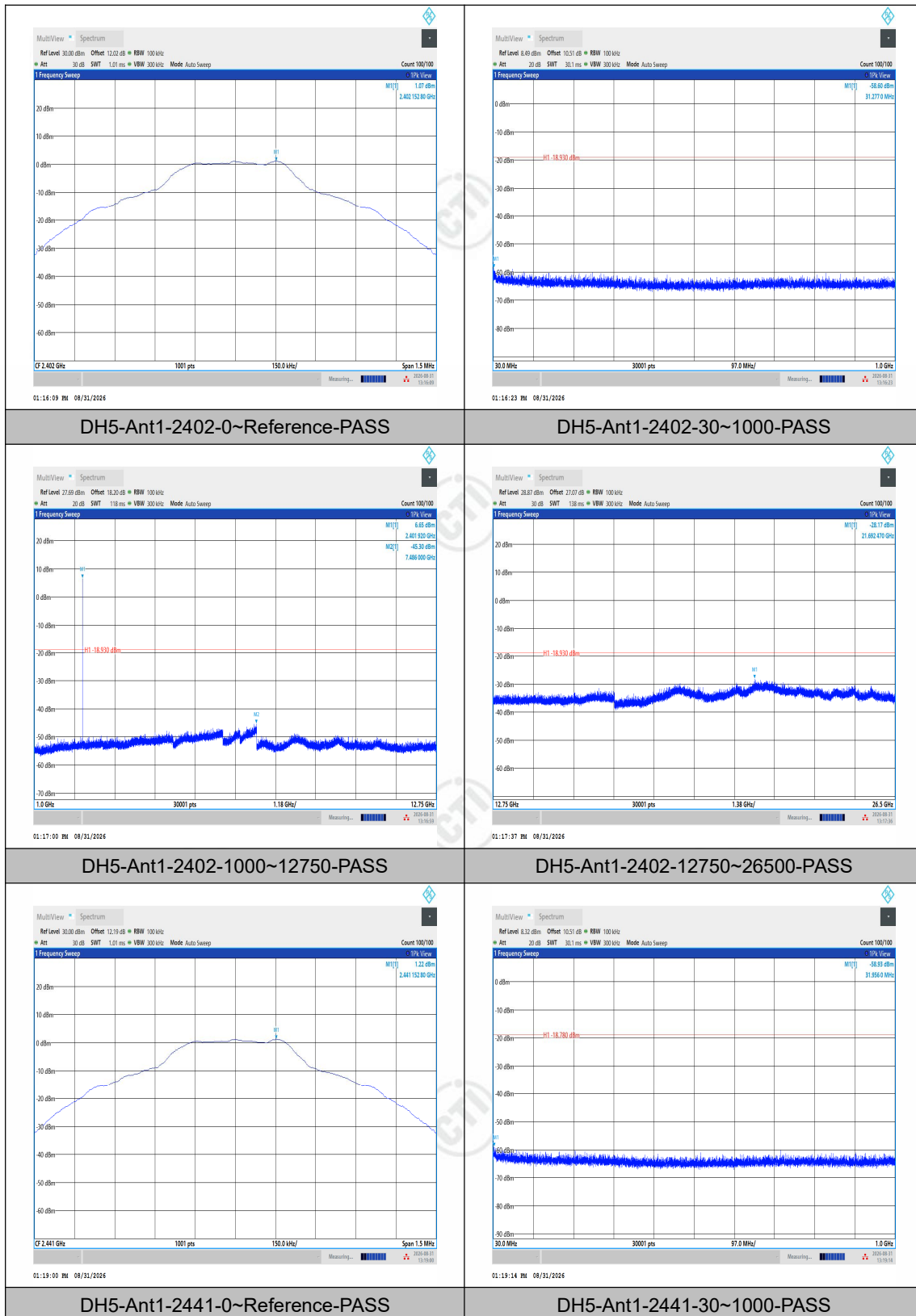


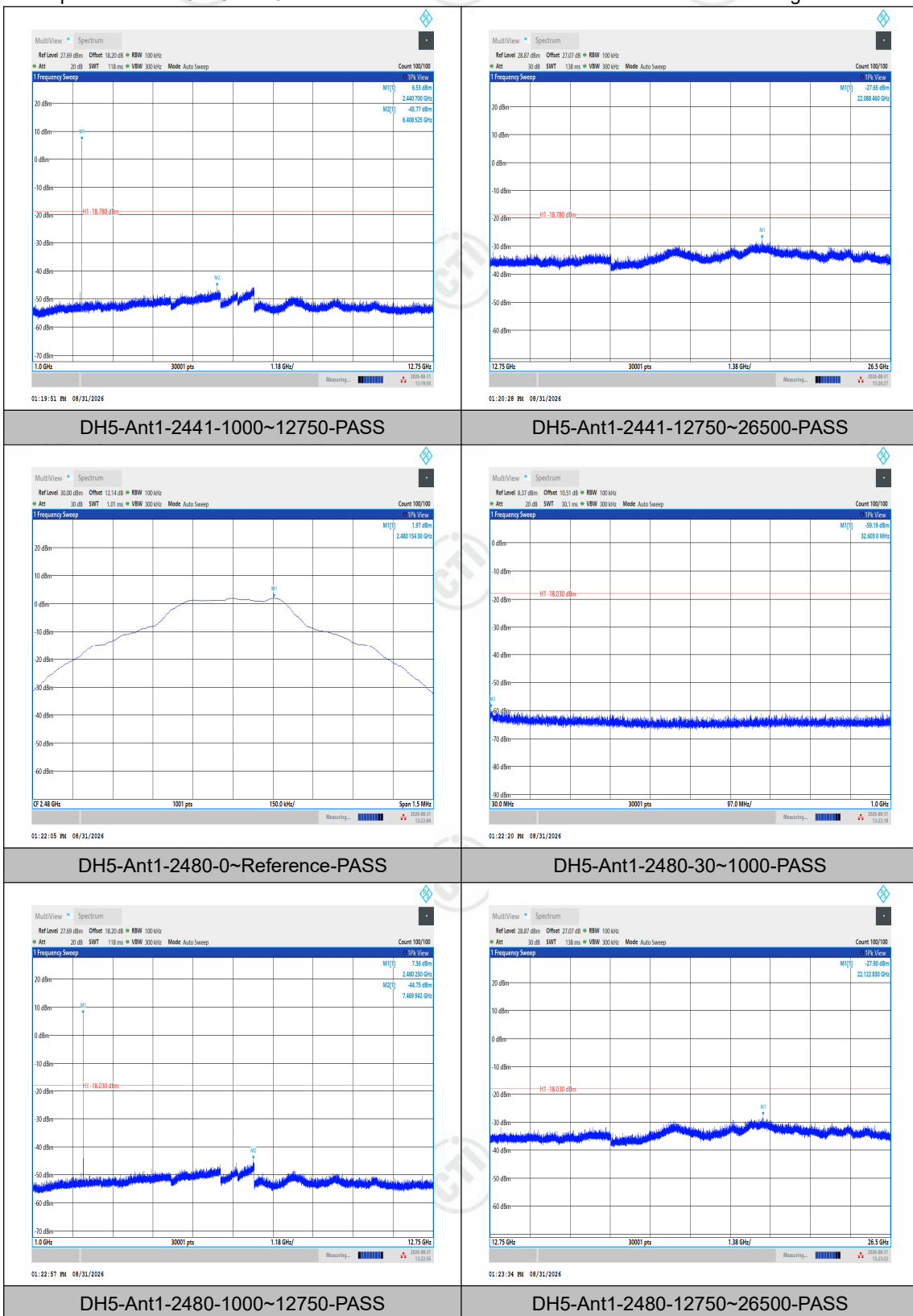
Appendix H: Conducted Spurious Emission

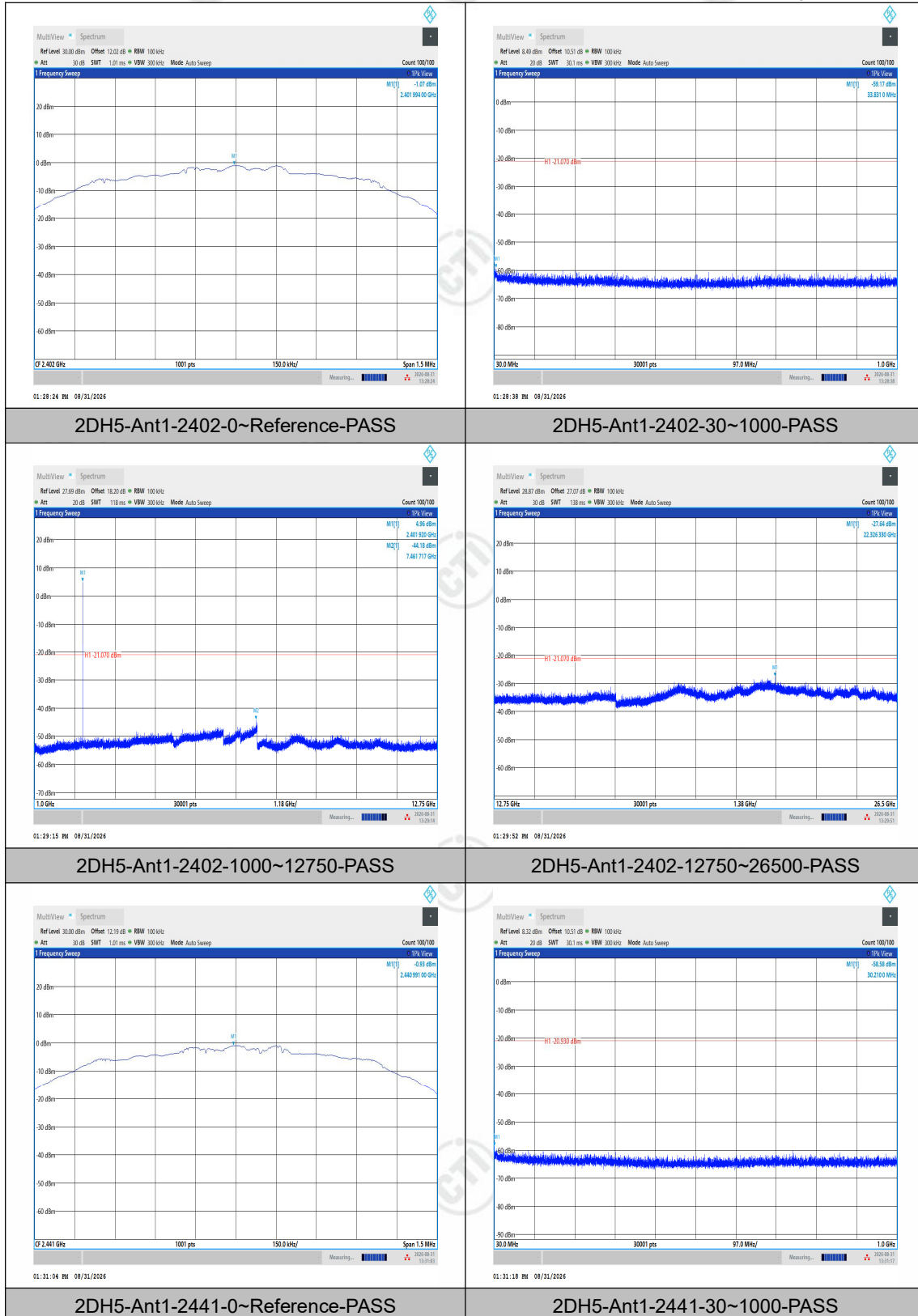
Test Result

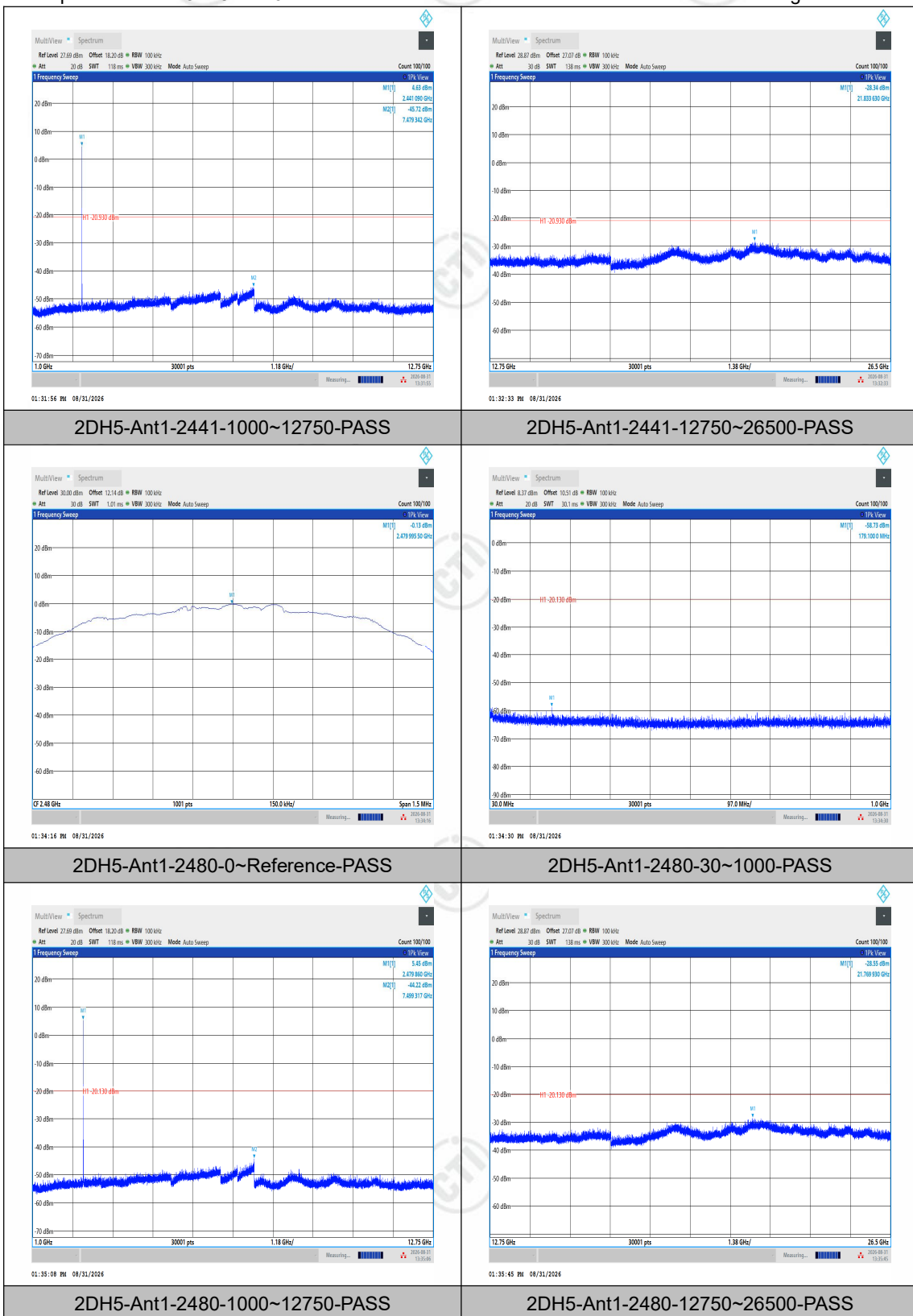
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	1.07	1.07	---	PASS
DH5	Ant1	2402	30~1000	1.07	-58.6	≤-18.93	PASS
DH5	Ant1	2402	1000~12750	1.07	-45.3	≤-18.93	PASS
DH5	Ant1	2402	12750~26500	1.07	-28.17	≤-18.93	PASS
DH5	Ant1	2441	0~Reference	1.22	1.22	---	PASS
DH5	Ant1	2441	30~1000	1.22	-58.93	≤-18.78	PASS
DH5	Ant1	2441	1000~12750	1.22	-45.77	≤-18.78	PASS
DH5	Ant1	2441	12750~26500	1.22	-27.65	≤-18.78	PASS
DH5	Ant1	2480	0~Reference	1.97	1.97	---	PASS
DH5	Ant1	2480	30~1000	1.97	-59.19	≤-18.03	PASS
DH5	Ant1	2480	1000~12750	1.97	-44.75	≤-18.03	PASS
DH5	Ant1	2480	12750~26500	1.97	-27.9	≤-18.03	PASS
2DH5	Ant1	2402	0~Reference	-1.07	-1.07	---	PASS
2DH5	Ant1	2402	30~1000	-1.07	-59.17	≤-21.07	PASS
2DH5	Ant1	2402	1000~12750	-1.07	-44.18	≤-21.07	PASS
2DH5	Ant1	2402	12750~26500	-1.07	-27.64	≤-21.07	PASS
2DH5	Ant1	2441	0~Reference	-0.93	-0.93	---	PASS
2DH5	Ant1	2441	30~1000	-0.93	-58.58	≤-20.93	PASS
2DH5	Ant1	2441	1000~12750	-0.93	-45.72	≤-20.93	PASS
2DH5	Ant1	2441	12750~26500	-0.93	-28.34	≤-20.93	PASS
2DH5	Ant1	2480	0~Reference	-0.13	-0.13	---	PASS
2DH5	Ant1	2480	30~1000	-0.13	-58.73	≤-20.13	PASS
2DH5	Ant1	2480	1000~12750	-0.13	-44.22	≤-20.13	PASS
2DH5	Ant1	2480	12750~26500	-0.13	-28.55	≤-20.13	PASS

Test Graphs









Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.76	76.60	1.16
DH5	Ant1	2441	2.88	3.76	76.60	1.16
DH5	Ant1	2480	2.88	3.76	76.60	1.16
2DH5	Ant1	2402	2.88	3.74	77.01	1.13
2DH5	Ant1	2441	2.88	3.76	76.60	1.16
2DH5	Ant1	2480	2.88	3.74	77.01	1.13

Test Graphs



*** End of Report ***