

Appendix for Bluetooth

Model: LGE-NX9

BTL-FCCP-8-2203G019

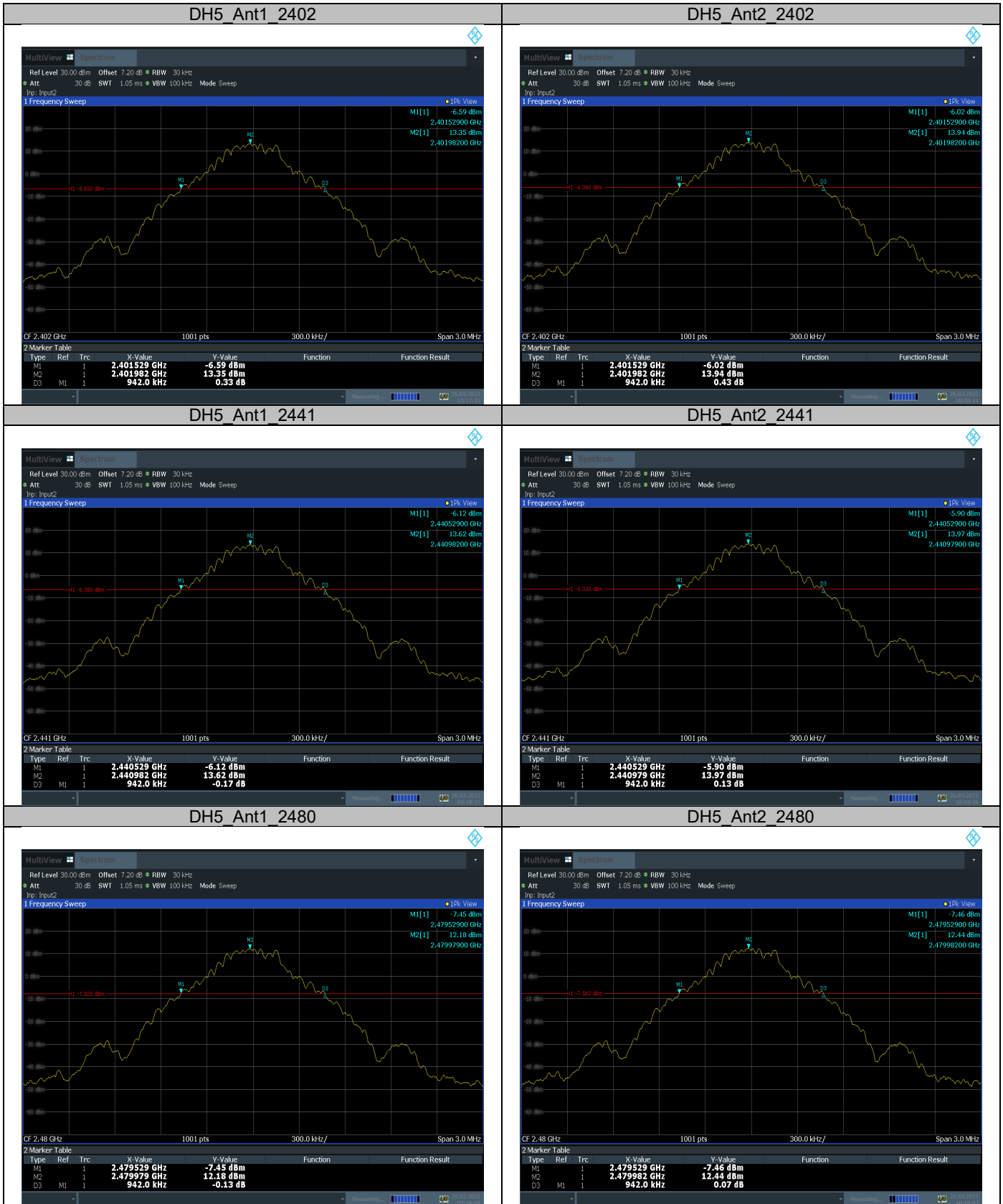
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1. APPENDIX A: 20DB EMISSION BANDWIDTH

1.1 TEST RESULT

Test Mode	Antenna	Frequency [MHz]	20dB EBW [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.94	---	PASS
	Ant2	2402	0.94	---	PASS
	Ant1	2441	0.94	---	PASS
	Ant2	2441	0.94	---	PASS
	Ant1	2480	0.94	---	PASS
	Ant2	2480	0.94	---	PASS
2DH5	Ant1	2402	1.32	---	PASS
	Ant2	2402	1.31	---	PASS
	Ant1	2441	1.31	---	PASS
	Ant2	2441	1.31	---	PASS
	Ant1	2480	1.31	---	PASS
	Ant2	2480	1.32	---	PASS
3DH5	Ant1	2402	1.30	---	PASS
	Ant2	2402	1.30	---	PASS
	Ant1	2441	1.30	---	PASS
	Ant2	2441	1.30	---	PASS
	Ant1	2480	1.30	---	PASS
	Ant2	2480	1.30	---	PASS

1.2 TEST GRAPHS



2DH5_Ant1_2402

2DH5_Ant2_2402



2DH5_Ant1_2441

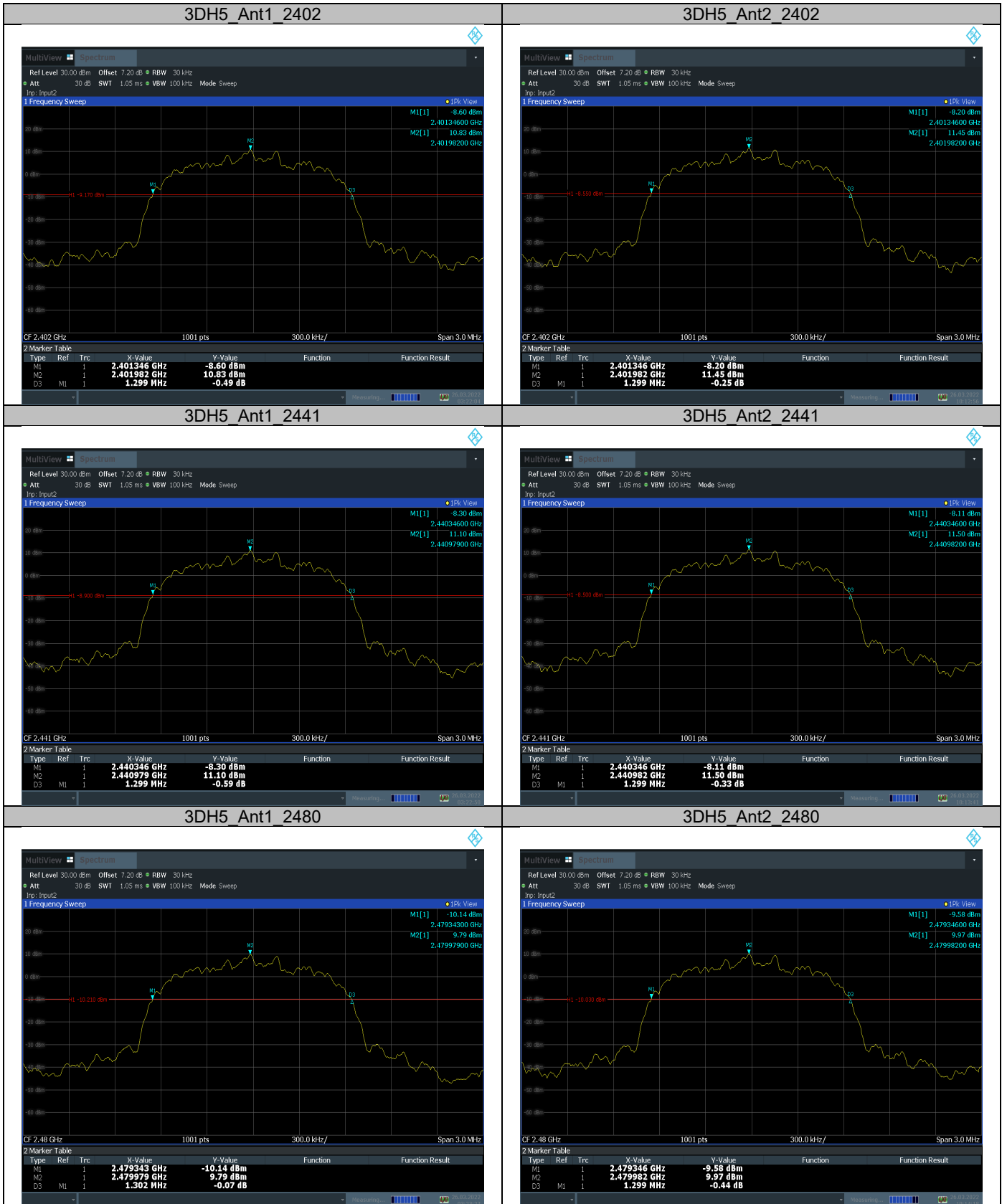
2DH5_Ant2_2441



2DH5_Ant1_2480

2DH5_Ant2_2480



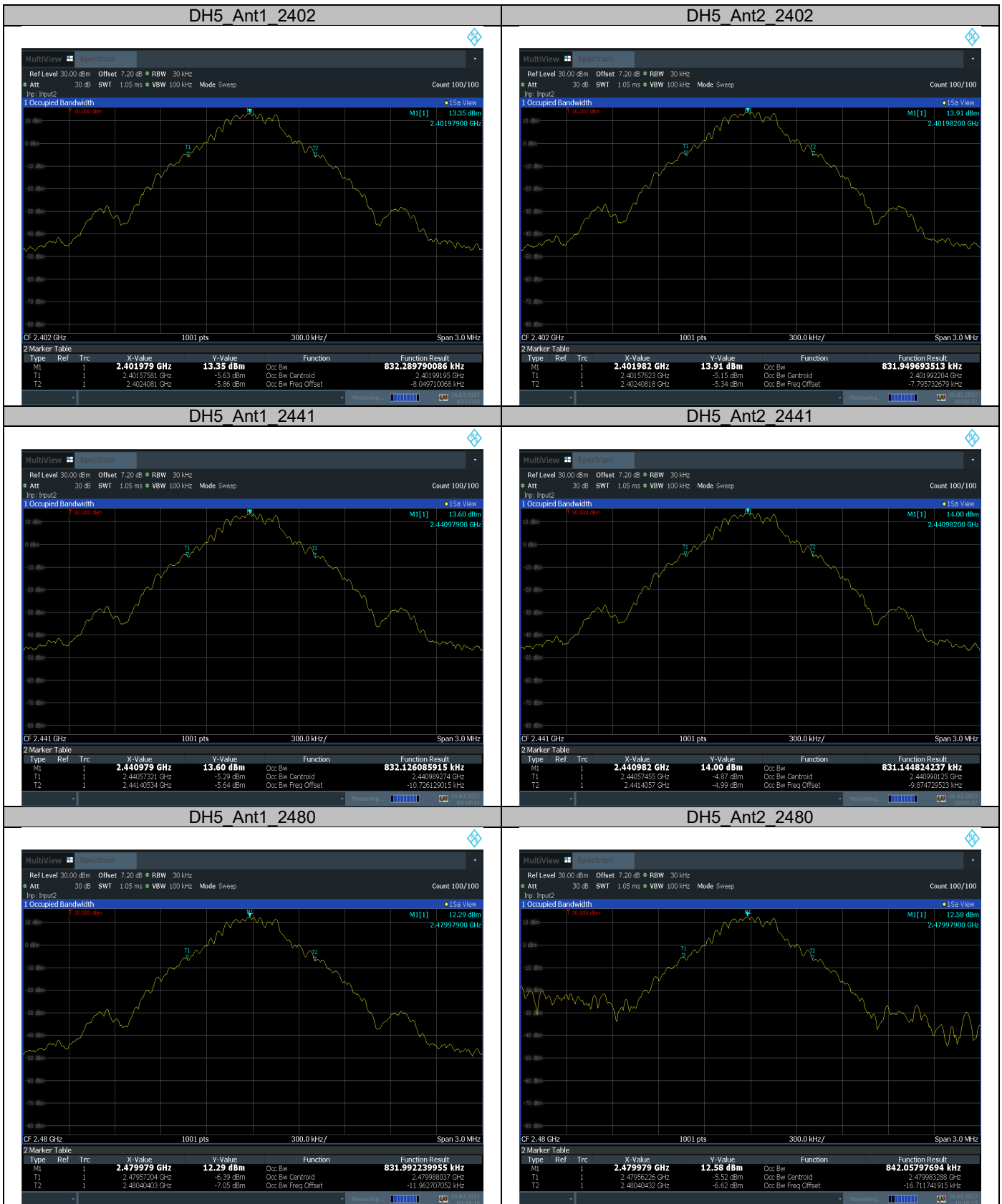


2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

2.1 TEST RESULT

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.832	---	PASS
	Ant2	2402	0.832	---	PASS
	Ant1	2441	0.832	---	PASS
	Ant2	2441	0.831	---	PASS
	Ant1	2480	0.832	---	PASS
	Ant2	2480	0.842	---	PASS
2DH5	Ant1	2402	1.169	---	PASS
	Ant2	2402	1.169	---	PASS
	Ant1	2441	1.168	---	PASS
	Ant2	2441	1.167	---	PASS
	Ant1	2480	1.167	---	PASS
	Ant2	2480	1.167	---	PASS
3DH5	Ant1	2402	1.173	---	PASS
	Ant2	2402	1.172	---	PASS
	Ant1	2441	1.172	---	PASS
	Ant2	2441	1.172	---	PASS
	Ant1	2480	1.171	---	PASS
	Ant2	2480	1.172	---	PASS

2.2 TEST GRAPHS





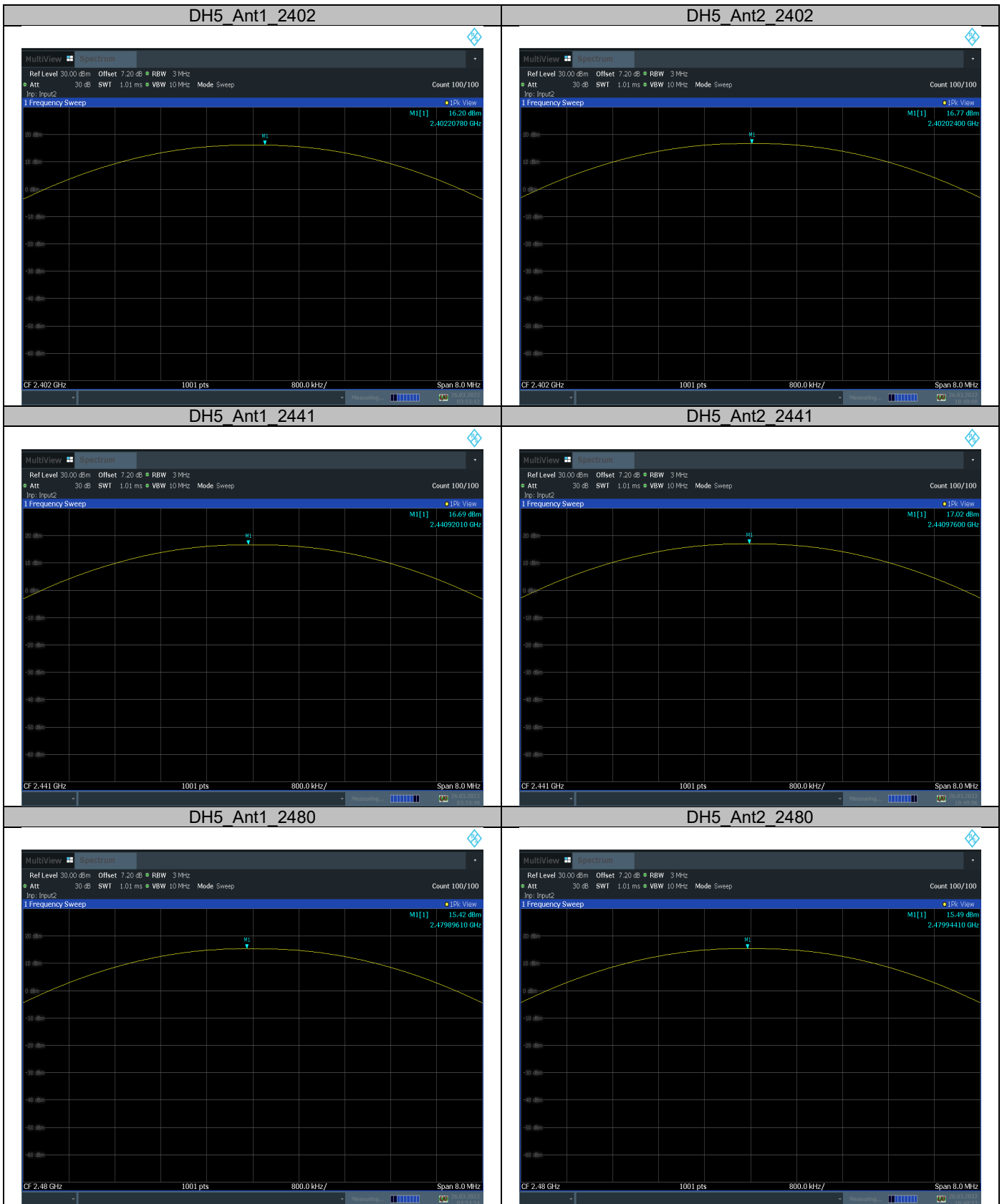


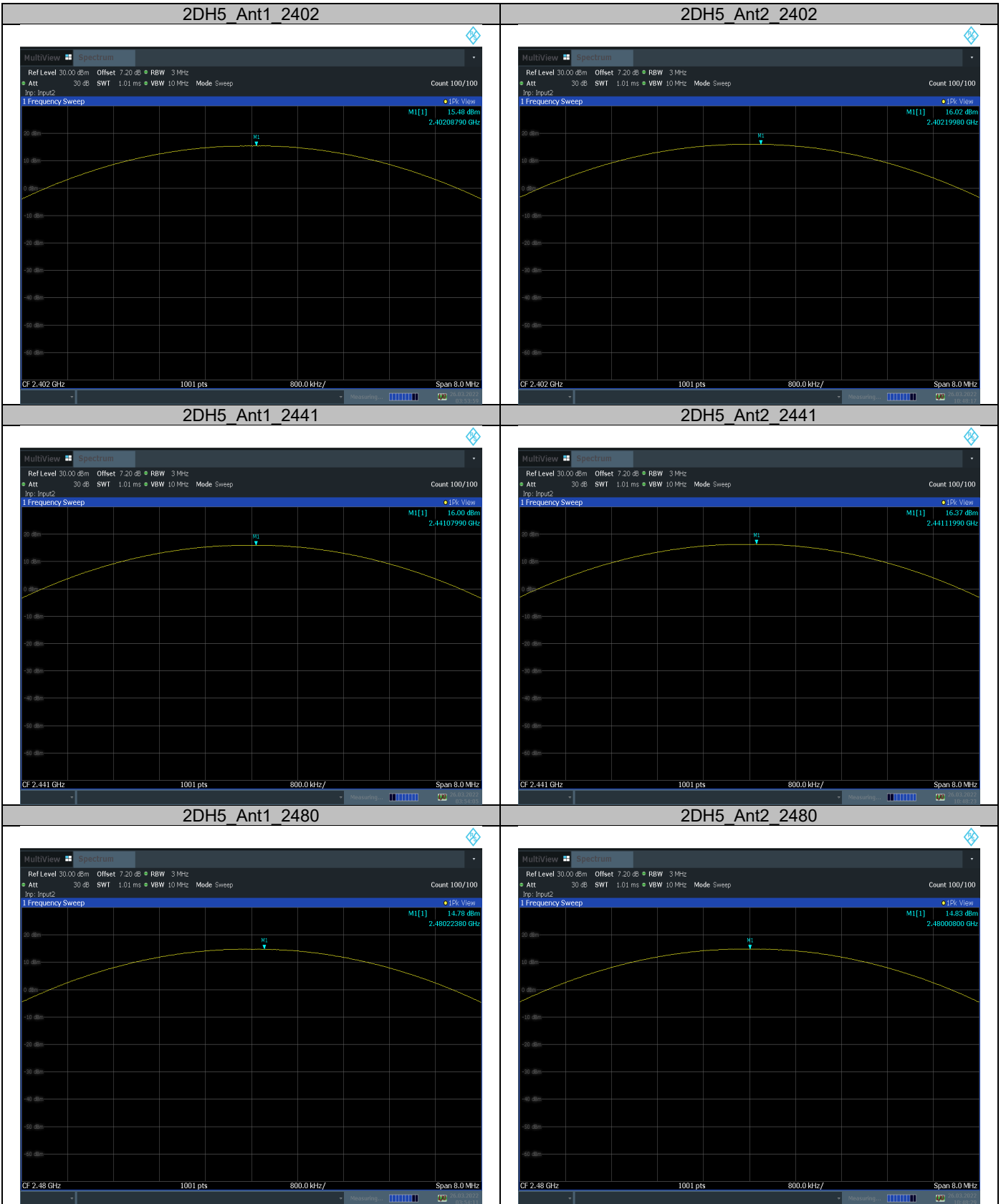
3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

3.1 TEST RESULT

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	16.20	≤20.97	PASS
	Ant2	2402	16.77	≤20.97	PASS
	Ant1	2441	16.69	≤20.97	PASS
	Ant2	2441	17.02	≤20.97	PASS
	Ant1	2480	15.42	≤20.97	PASS
	Ant2	2480	15.49	≤20.97	PASS
2DH5	Ant1	2402	15.48	≤20.97	PASS
	Ant2	2402	16.02	≤20.97	PASS
	Ant1	2441	16.00	≤20.97	PASS
	Ant2	2441	16.37	≤20.97	PASS
	Ant1	2480	14.78	≤20.97	PASS
	Ant2	2480	14.83	≤20.97	PASS
3DH5	Ant1	2402	15.92	≤20.97	PASS
	Ant2	2402	16.49	≤20.97	PASS
	Ant1	2441	16.50	≤20.97	PASS
	Ant2	2441	16.84	≤20.97	PASS
	Ant1	2480	15.27	≤20.97	PASS
	Ant2	2480	15.35	≤20.97	PASS

3.2 TEST GRAPHS







4. APPENDIX D: CARRIER FREQUENCY SEPARATION

4.1 TEST RESULT

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.000	≥ 0.940	PASS
	Ant2	Hop	1.310	≥ 0.940	PASS
2DH5	Ant1	Hop	1.322	≥ 1.320	PASS
	Ant2	Hop	0.984	≥ 0.880	PASS
3DH5	Ant1	Hop	1.006	≥ 0.867	PASS
	Ant2	Hop	1.006	≥ 0.867	PASS

4.2 TEST GRAPHS

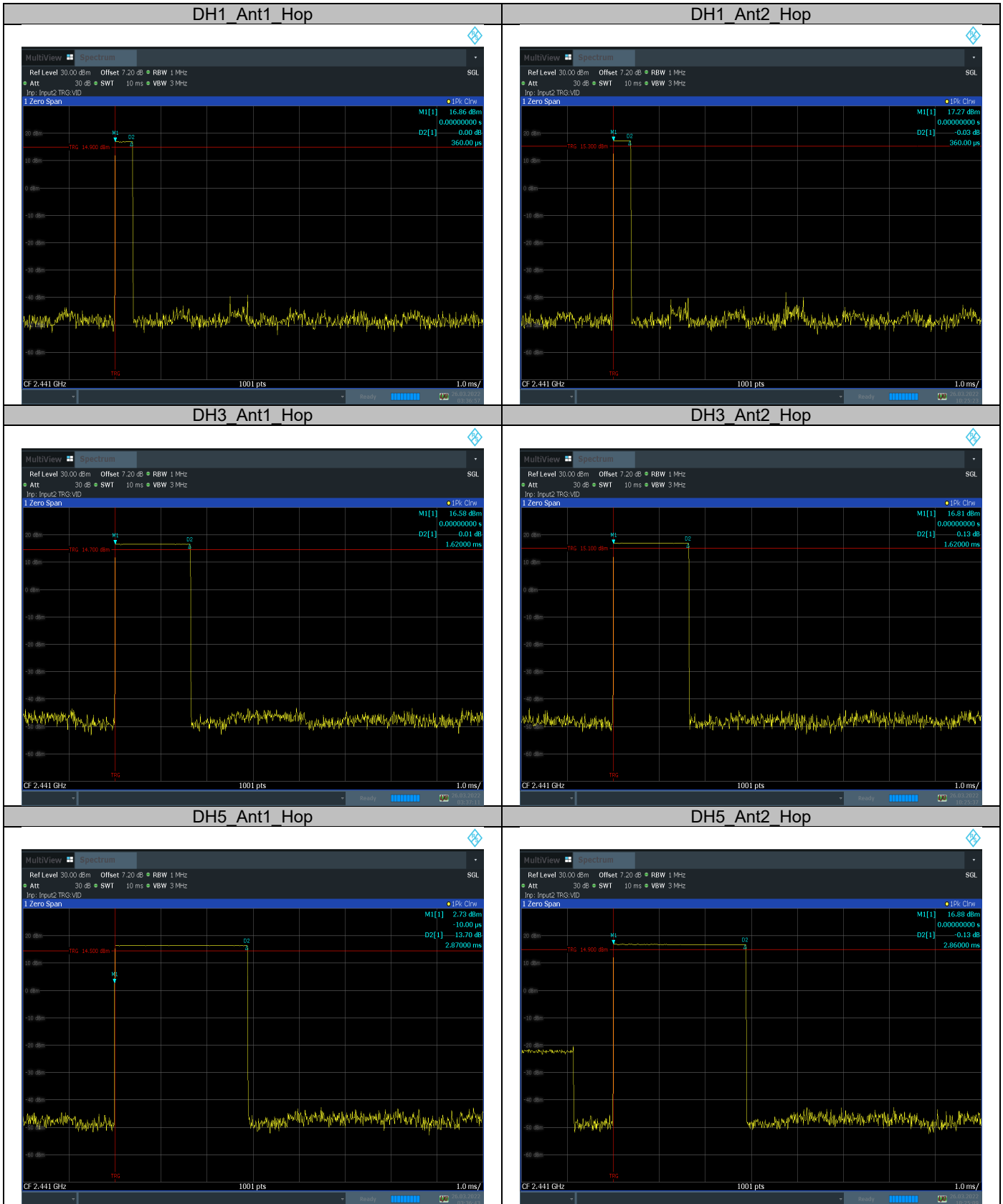


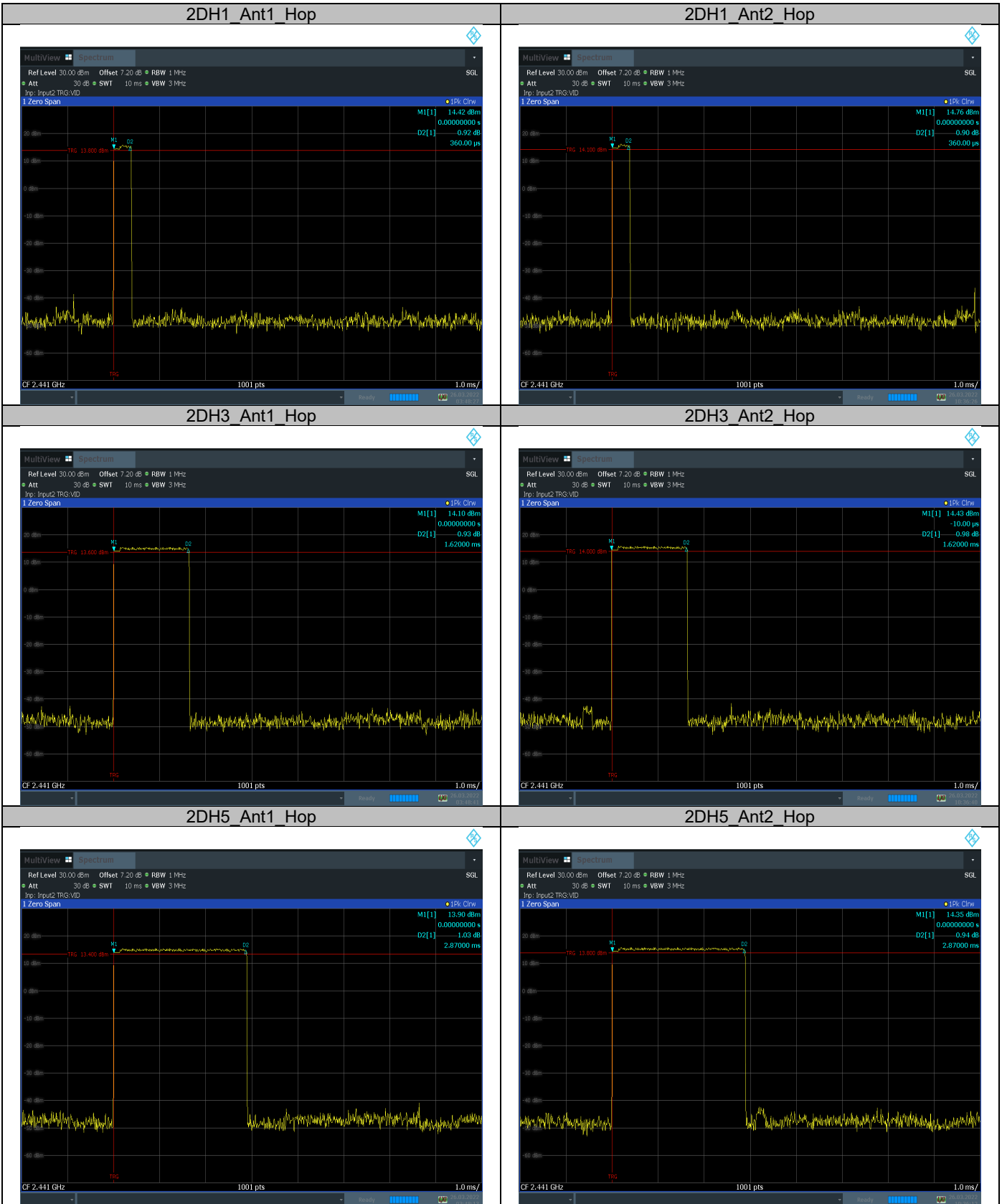
5. APPENDIX E: TIME OF OCCUPANCY

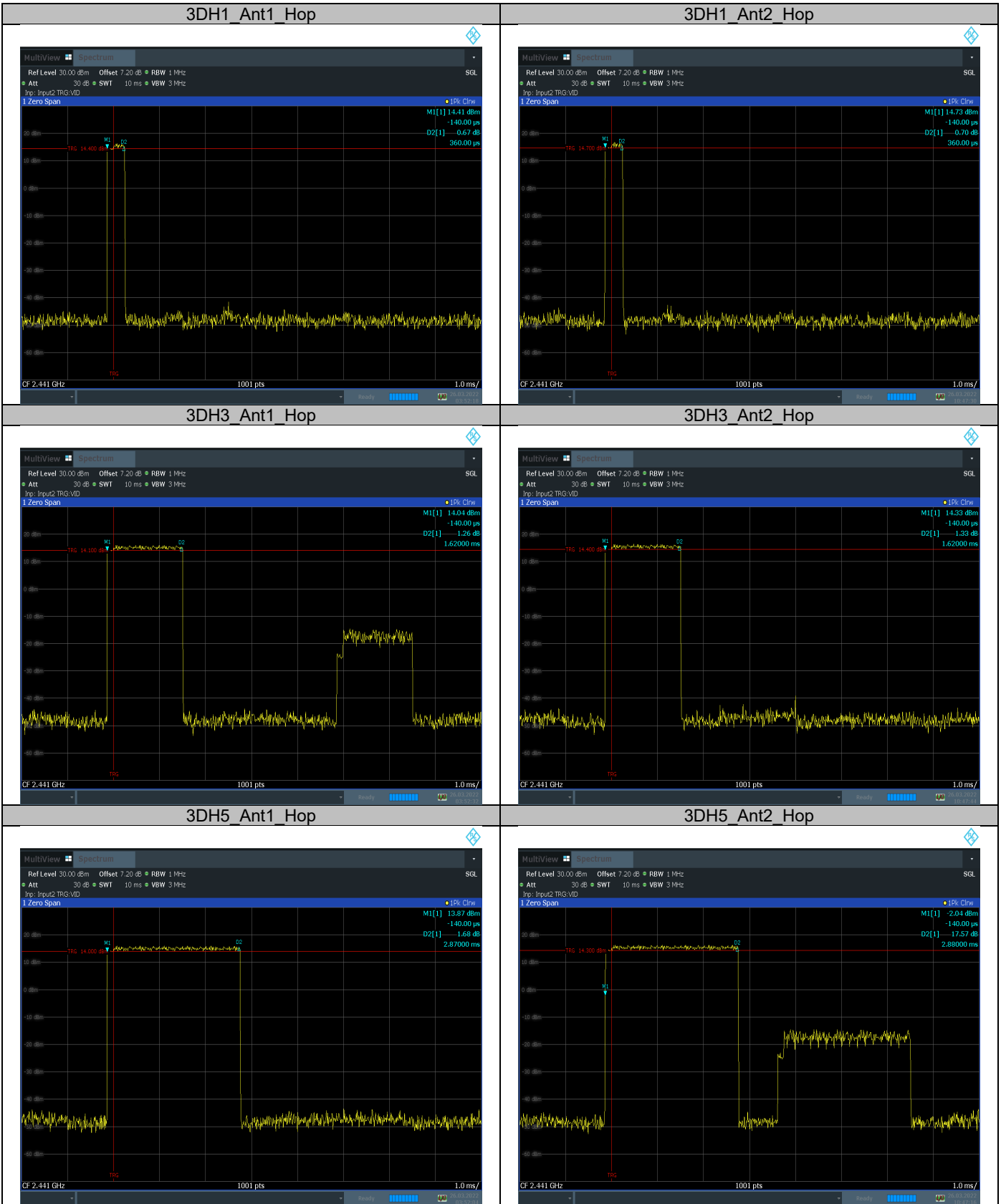
5.1 TEST RESULT

Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.36	320	0.115	≤0.4	PASS
	Ant2	Hop	0.36	320	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
	Ant2	Hop	1.62	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
	Ant2	Hop	2.86	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.36	320	0.115	≤0.4	PASS
	Ant2	Hop	0.36	320	0.115	≤0.4	PASS
2DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
	Ant2	Hop	1.62	160	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
	Ant2	Hop	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.36	320	0.115	≤0.4	PASS
	Ant2	Hop	0.36	320	0.115	≤0.4	PASS
3DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
	Ant2	Hop	1.62	160	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
	Ant2	Hop	2.88	106.67	0.307	≤0.4	PASS

5.2 TEST GRAPHS





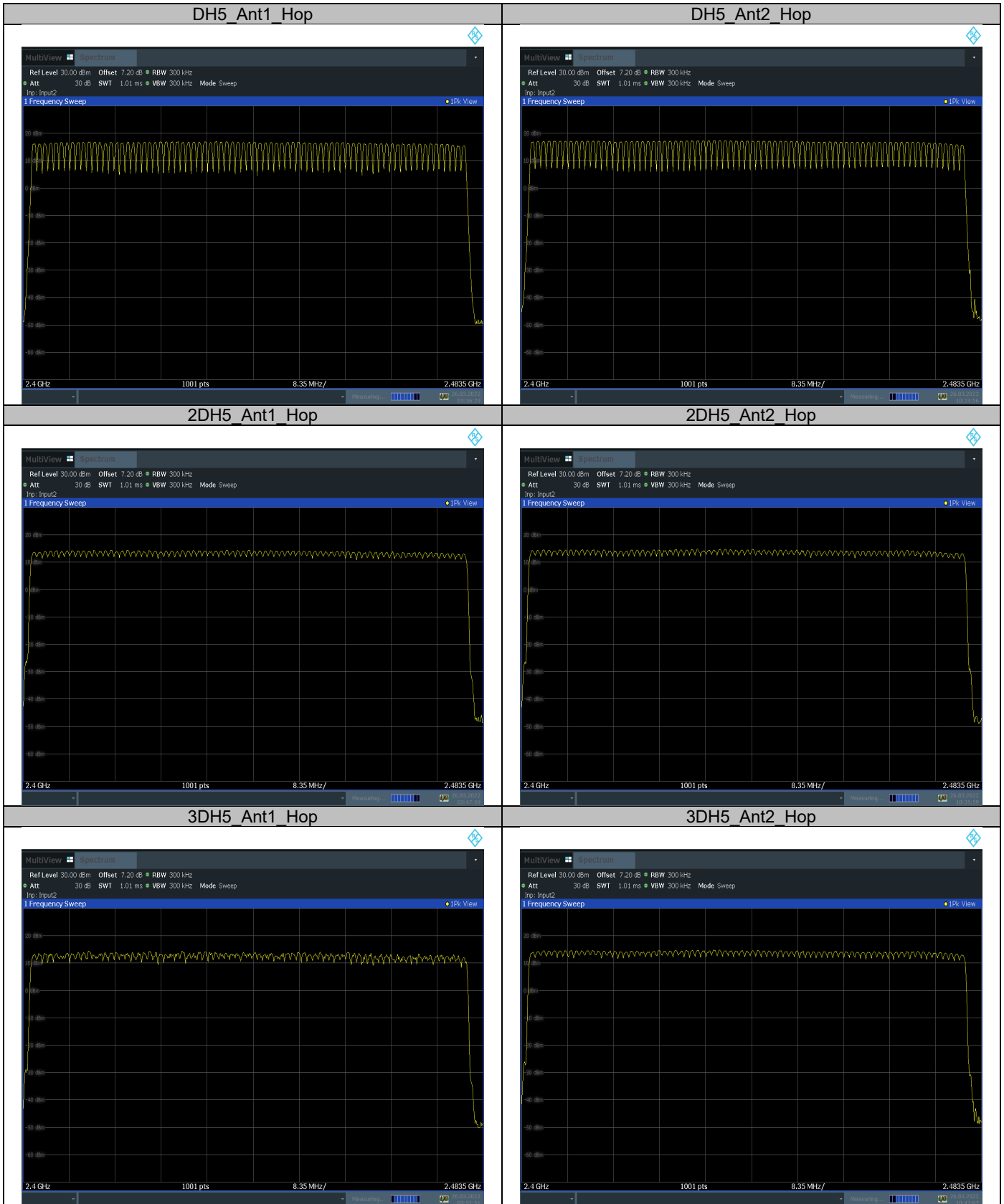


6. APPENDIX F: NUMBER OF HOPPING CHANNELS

6.1 TEST RESULT

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
	Ant2	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
	Ant2	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS
	Ant2	Hop	79	≥ 15	PASS

6.2 TEST GRAPHS



7. APPENDIX G: BAND EDGE MEASUREMENTS

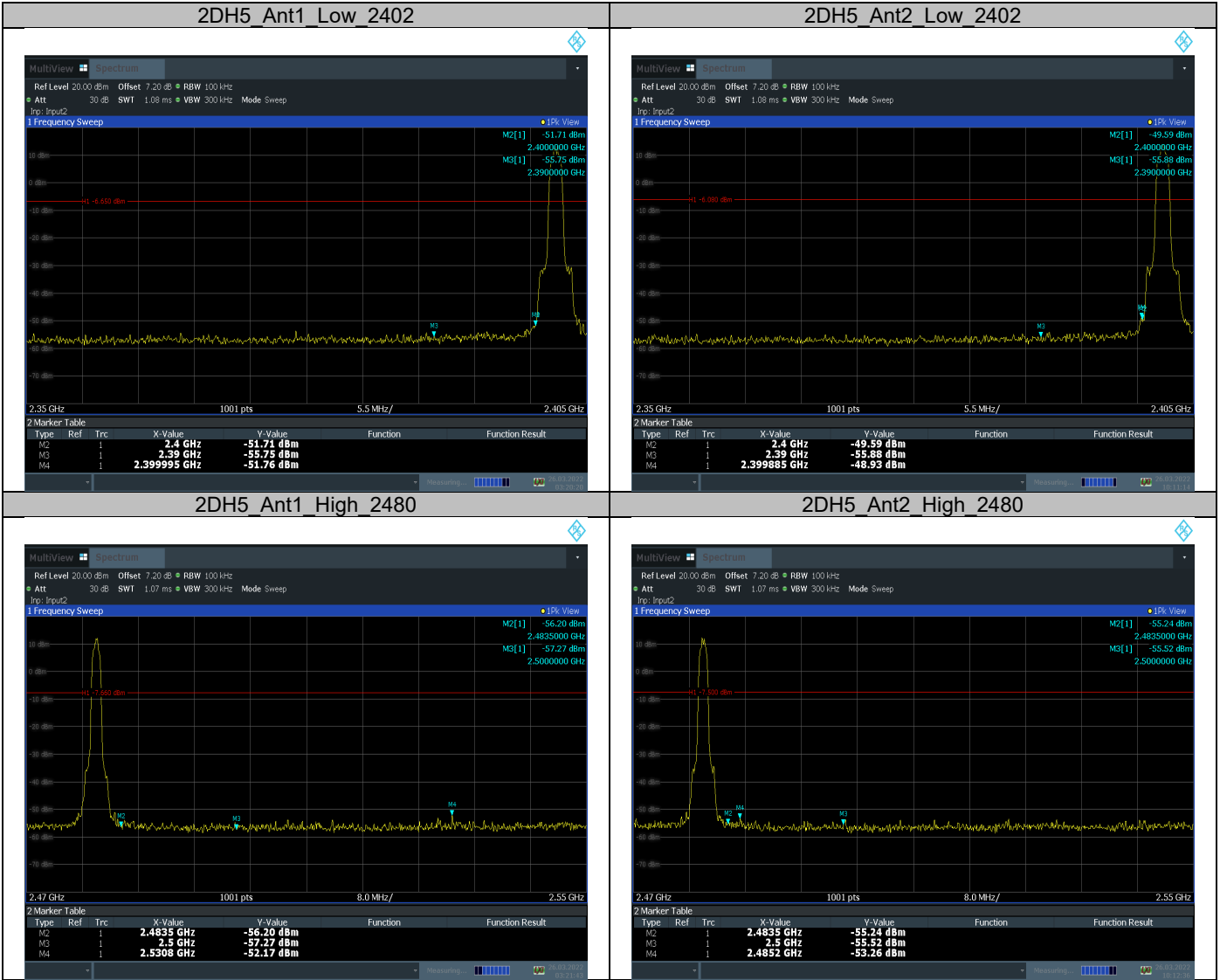
7.1 TEST RESULT

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	15.97	-50.45	≤-4.03	PASS
	Ant2	Low	2402	16.58	-50.47	≤-3.42	PASS
	Ant1	High	2480	14.87	-53.6	≤-5.13	PASS
	Ant2	High	2480	14.99	-53.68	≤-5.01	PASS
	Ant1	Low	Hop_2402	15.90	-53.21	≤-4.1	PASS
	Ant2	Low	Hop_2402	15.94	-54.58	≤-4.06	PASS
	Ant1	High	Hop_2480	14.99	-52.53	≤-5.01	PASS
	Ant2	High	Hop_2480	15.78	-53.65	≤-4.22	PASS
2DH5	Ant1	Low	2402	13.35	-51.76	≤-6.65	PASS
	Ant2	Low	2402	13.92	-48.93	≤-6.08	PASS
	Ant1	High	2480	12.34	-52.17	≤-7.66	PASS
	Ant2	High	2480	12.50	-53.26	≤-7.5	PASS
	Ant1	Low	Hop_2402	13.56	-53.78	≤-6.44	PASS
	Ant2	Low	Hop_2402	11.19	-54.31	≤-8.81	PASS
	Ant1	High	Hop_2480	12.80	-52.78	≤-7.2	PASS
	Ant2	High	Hop_2480	9.89	-53.09	≤-10.11	PASS
3DH5	Ant1	Low	2402	13.47	-50.21	≤-6.53	PASS
	Ant2	Low	2402	14.04	-48.84	≤-5.96	PASS
	Ant1	High	2480	12.41	-53.54	≤-7.59	PASS
	Ant2	High	2480	12.57	-53.18	≤-7.43	PASS
	Ant1	Low	Hop_2402	12.79	-53.53	≤-7.21	PASS
	Ant2	Low	Hop_2402	11.17	-54.4	≤-8.83	PASS
	Ant1	High	Hop_2480	11.91	-52.65	≤-8.09	PASS
	Ant2	High	Hop_2480	11.54	-53.47	≤-8.46	PASS

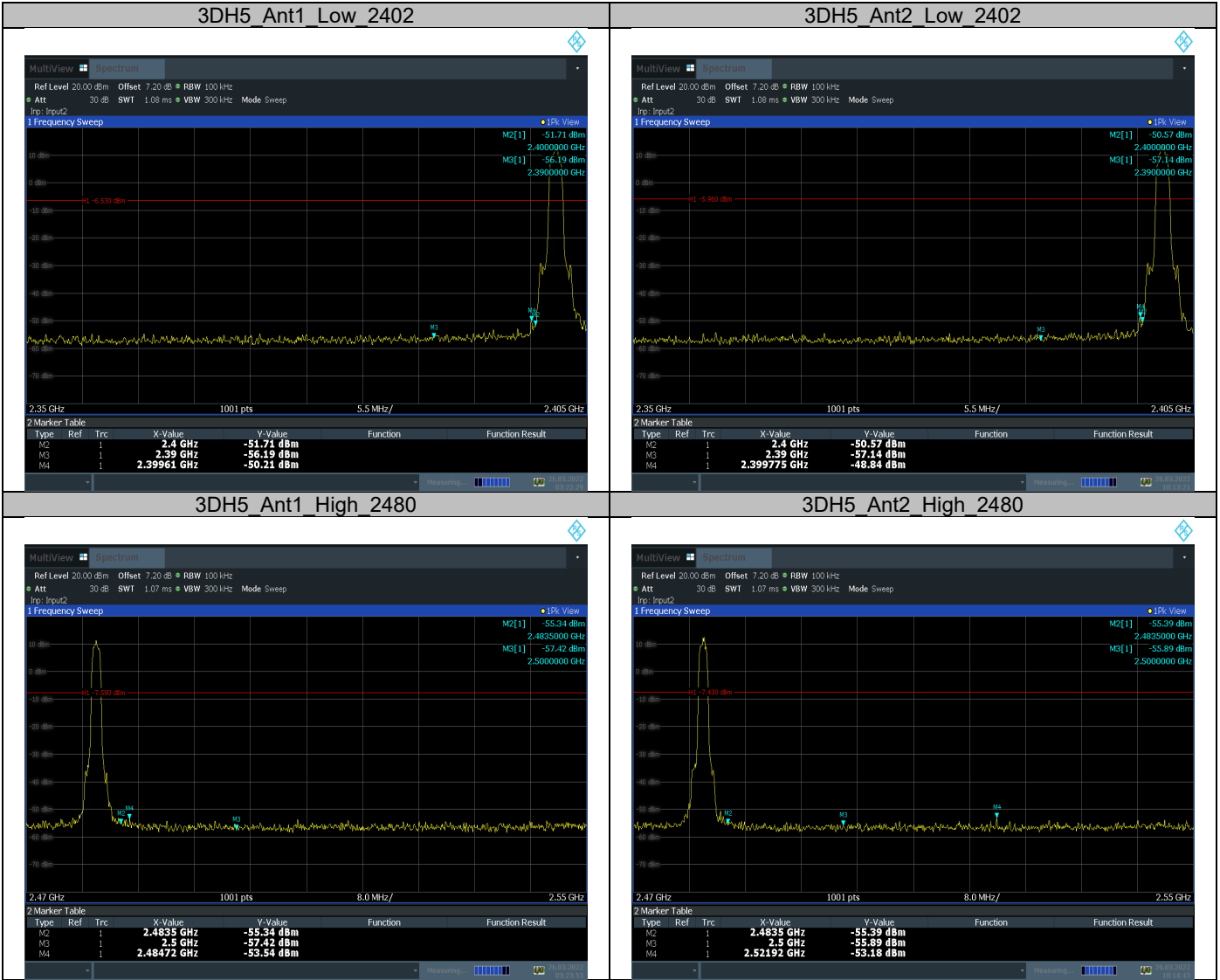
7.2 TEST GRAPHS













8. APPENDIX H: CONDUCTED SPURIOUS EMISSION

8.1 TEST RESULT

Test Mode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	15.97	-61	≤-4.03	PASS
			1000~26500	15.97	-59.6	≤-4.03	PASS
	Ant2	2402	30~1000	16.58	-61.35	≤-3.42	PASS
			1000~26500	16.58	-59.65	≤-3.42	PASS
	Ant1	2441	30~1000	16.20	-60.69	≤-3.8	PASS
			1000~26500	16.20	-59.34	≤-3.8	PASS
	Ant2	2441	30~1000	16.59	-60.05	≤-3.41	PASS
			1000~26500	16.59	-59.56	≤-3.41	PASS
	Ant1	2480	30~1000	14.87	-60.29	≤-5.13	PASS
			1000~26500	14.87	-40.3	≤-5.13	PASS
	Ant2	2480	30~1000	14.99	-60.78	≤-5.01	PASS
			1000~26500	14.99	-59.18	≤-5.01	PASS
2DH5	Ant1	2402	30~1000	13.35	-60.54	≤-6.65	PASS
			1000~26500	13.35	-58.9	≤-6.65	PASS
	Ant2	2402	30~1000	13.92	-60.68	≤-6.08	PASS
			1000~26500	13.92	-59.42	≤-6.08	PASS
	Ant1	2441	30~1000	13.57	-60.6	≤-6.43	PASS
			1000~26500	13.57	-59.56	≤-6.43	PASS
	Ant2	2441	30~1000	13.98	-60.38	≤-6.02	PASS
			1000~26500	13.98	-59.16	≤-6.02	PASS
	Ant1	2480	30~1000	12.34	-59.87	≤-7.66	PASS
			1000~26500	12.34	-59.36	≤-7.66	PASS
	Ant2	2480	30~1000	12.50	-60.5	≤-7.5	PASS
			1000~26500	12.50	-59.3	≤-7.5	PASS
3DH5	Ant1	2402	30~1000	13.47	-60.45	≤-6.53	PASS
			1000~26500	13.47	-59.19	≤-6.53	PASS
	Ant2	2402	30~1000	14.04	-59.66	≤-5.96	PASS
			1000~26500	14.04	-58.73	≤-5.96	PASS
	Ant1	2441	30~1000	13.72	-60.97	≤-6.28	PASS
			1000~26500	13.72	-59.41	≤-6.28	PASS
	Ant2	2441	30~1000	14.10	-60.07	≤-5.9	PASS
			1000~26500	14.10	-59.21	≤-5.9	PASS
	Ant1	2480	30~1000	12.41	-60.34	≤-7.59	PASS
			1000~26500	12.41	-59.38	≤-7.59	PASS
	Ant2	2480	30~1000	12.57	-60.9	≤-7.43	PASS
			1000~26500	12.57	-59.24	≤-7.43	PASS