

Appendix for Bluetooth BR/EDR mode

Product Name: Rugged handheld

Model No: UA60

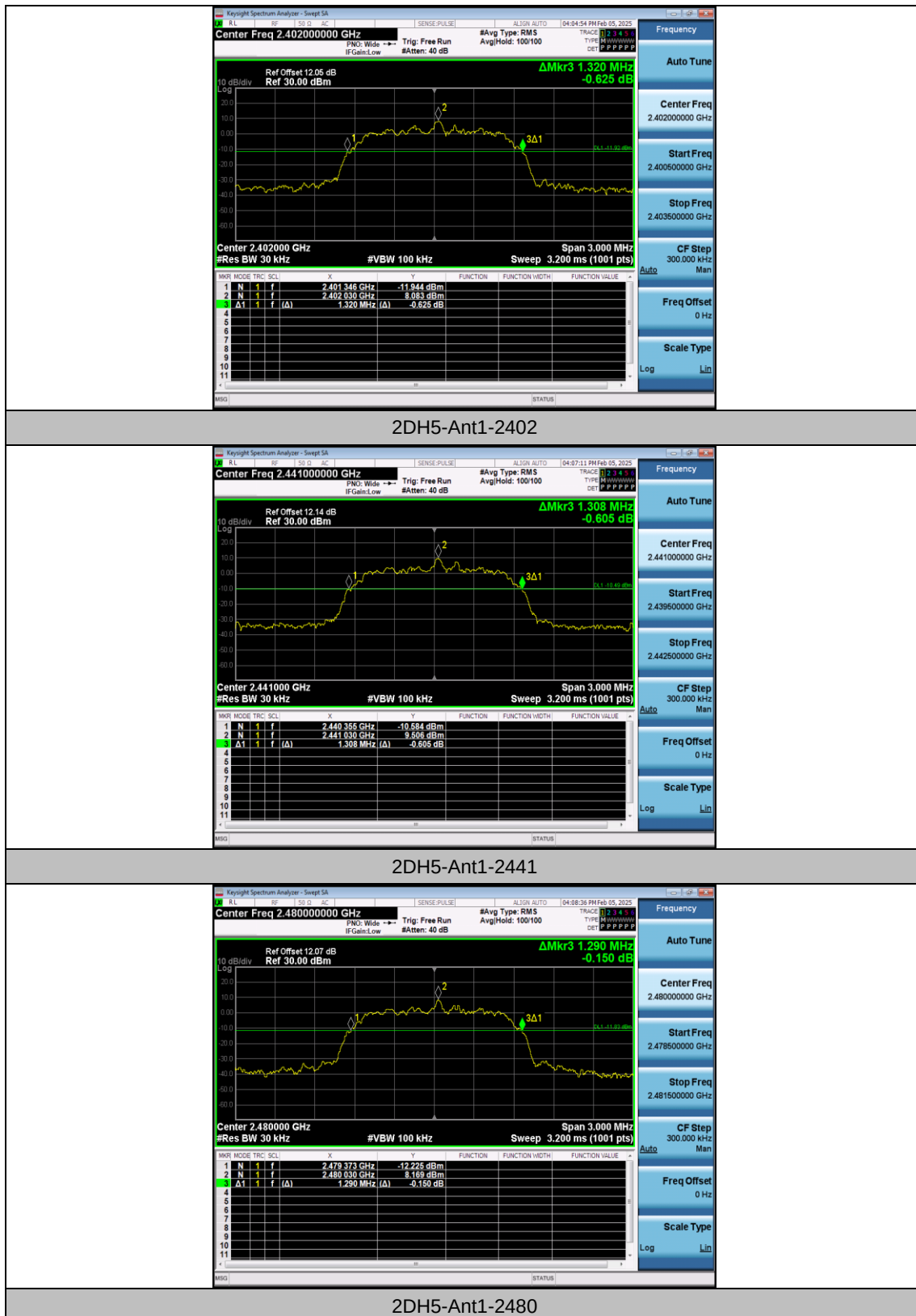
Appendix A: 20dB Emission Bandwidth

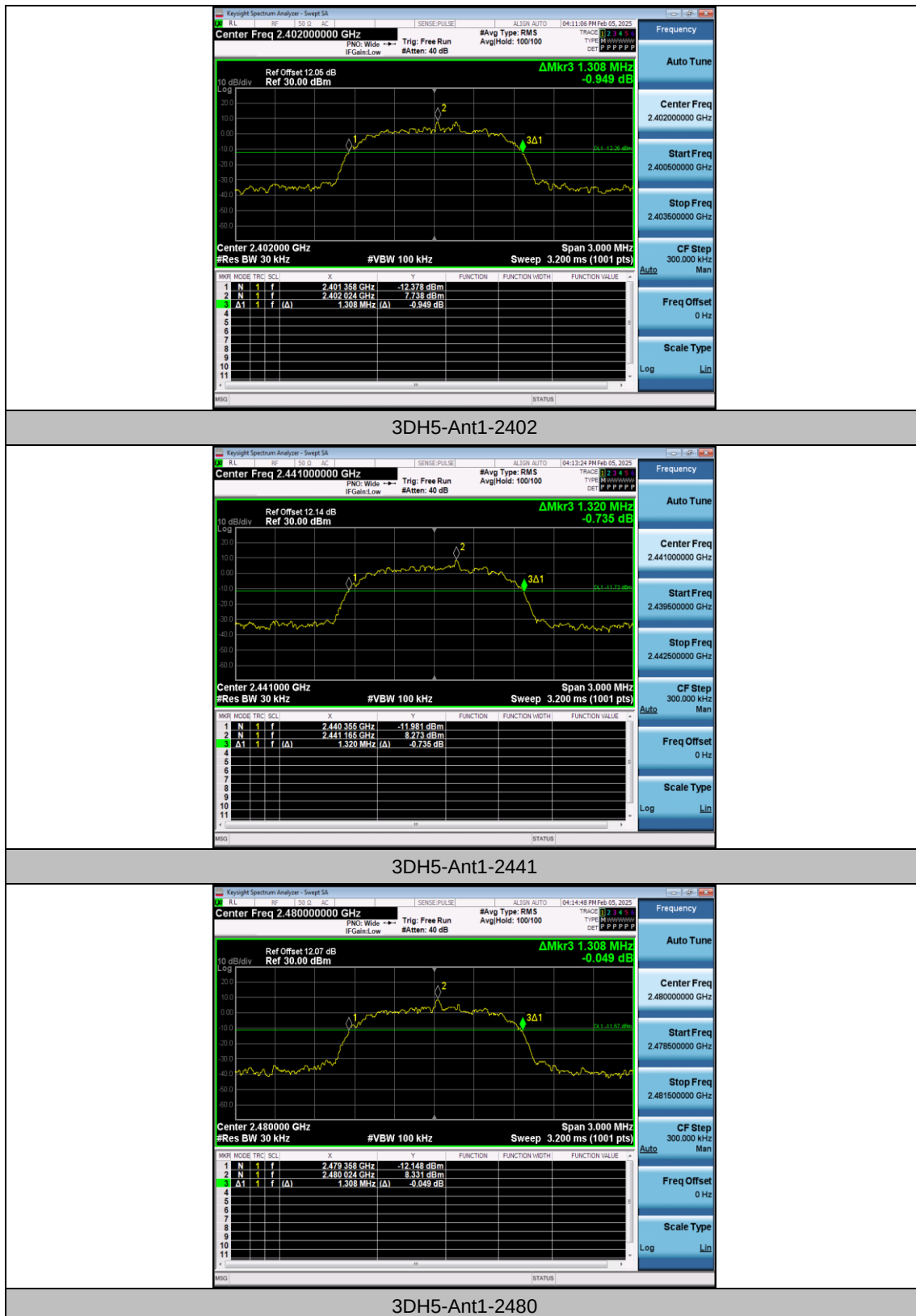
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.538	2402.495	---	---
DH5	Ant1	2441	0.948	2440.547	2441.495	---	---
DH5	Ant1	2480	0.933	2479.553	2480.486	---	---
2DH5	Ant1	2402	1.320	2401.346	2402.666	---	---
2DH5	Ant1	2441	1.308	2440.355	2441.663	---	---
2DH5	Ant1	2480	1.290	2479.373	2480.663	---	---
3DH5	Ant1	2402	1.308	2401.358	2402.666	---	---
3DH5	Ant1	2441	1.320	2440.355	2441.675	---	---
3DH5	Ant1	2480	1.308	2479.358	2480.666	---	---

Test Graphs





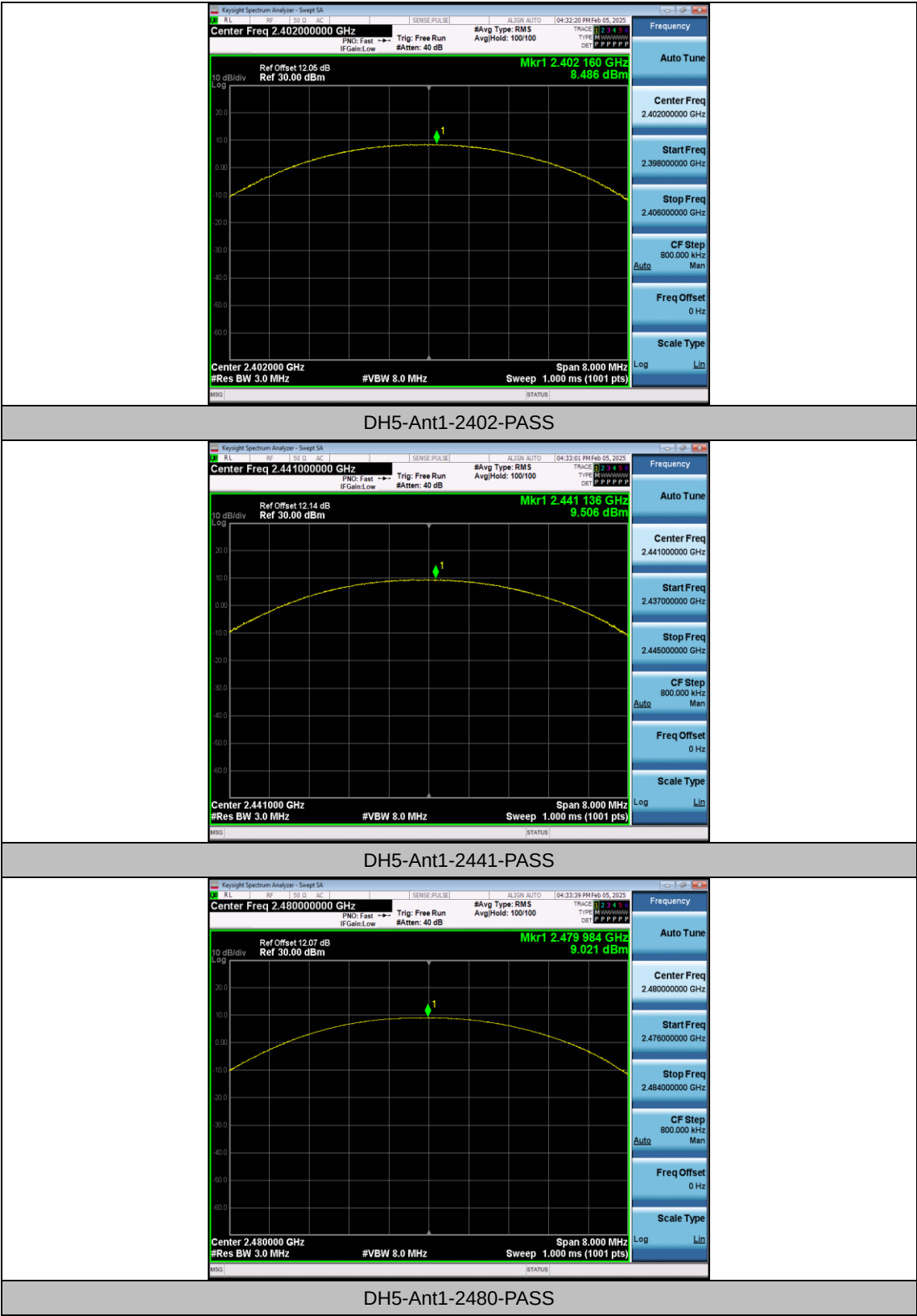


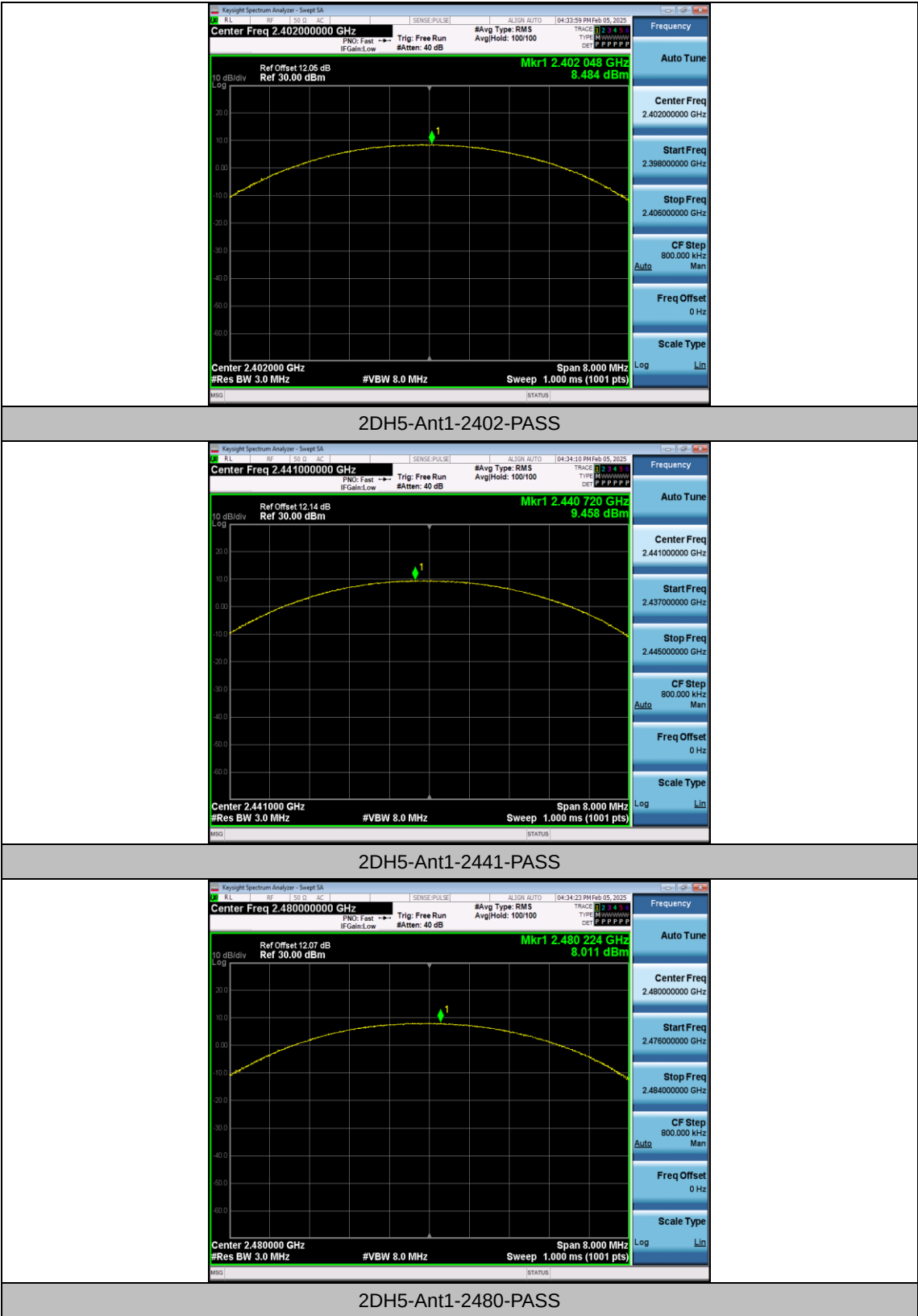
Appendix B: Maximum conducted output power

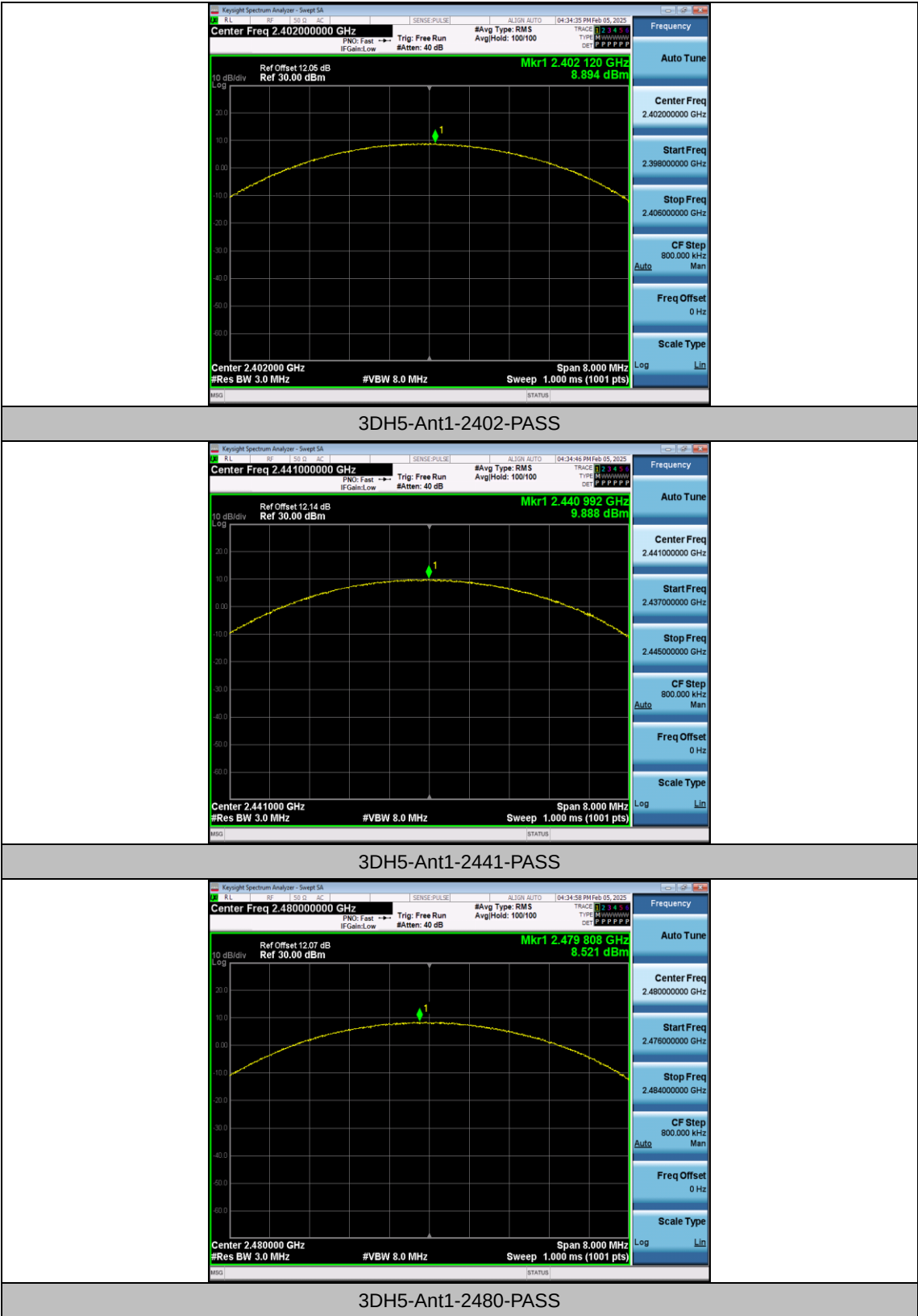
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	8.49	≤20.97	PASS
DH5	Ant1	2441	9.51	≤20.97	PASS
DH5	Ant1	2480	9.02	≤20.97	PASS
2DH5	Ant1	2402	8.48	≤20.97	PASS
2DH5	Ant1	2441	9.46	≤20.97	PASS
2DH5	Ant1	2480	8.01	≤20.97	PASS
3DH5	Ant1	2402	8.89	≤30	PASS
3DH5	Ant1	2441	9.89	≤30	PASS
3DH5	Ant1	2480	8.52	≤30	PASS

Test Graphs





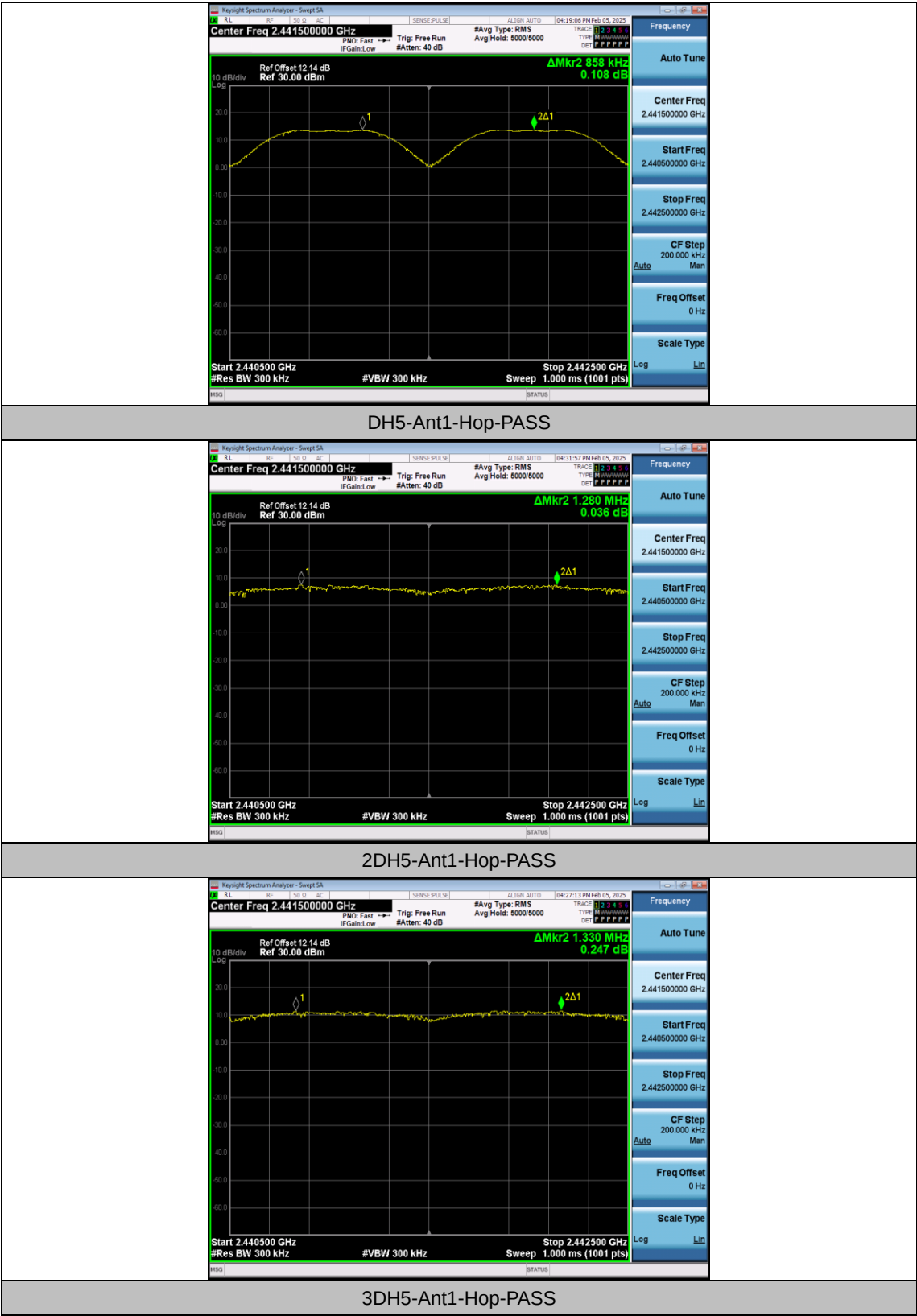


Appendix C: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.858	≥ 0.638	PASS
2DH5	Ant1	Hop	1.28	≥ 0.880	PASS
3DH5	Ant1	Hop	1.33	≥ 1.320	PASS

Test Graphs

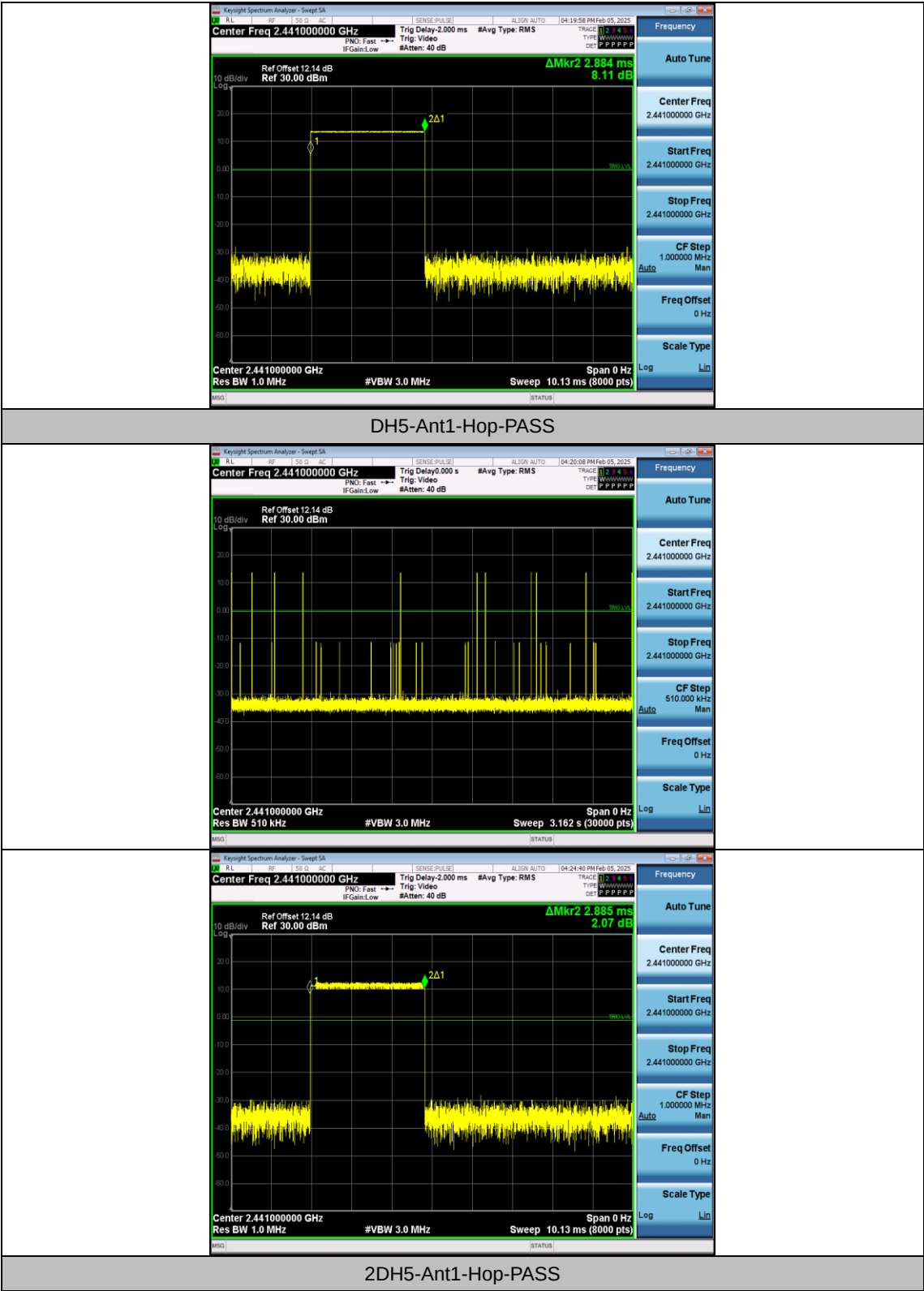


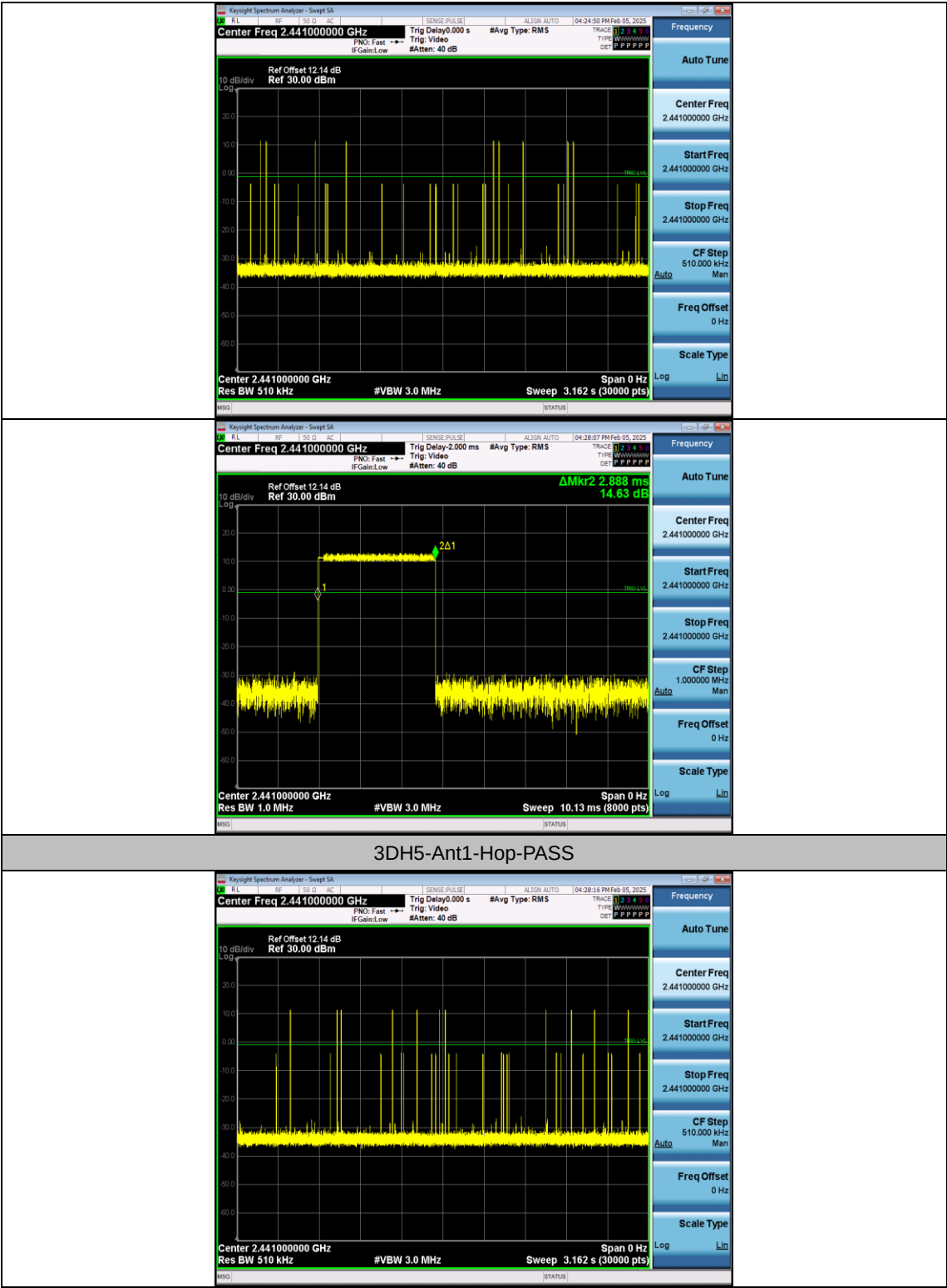
Appendix D: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.884	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.885	100	0.289	≤0.4	PASS
3DH5	Ant1	Hop	2.888	130	0.375	≤0.4	PASS

Test Graphs





3DH5-Ant1-Hop-PASS

Appendix E: 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

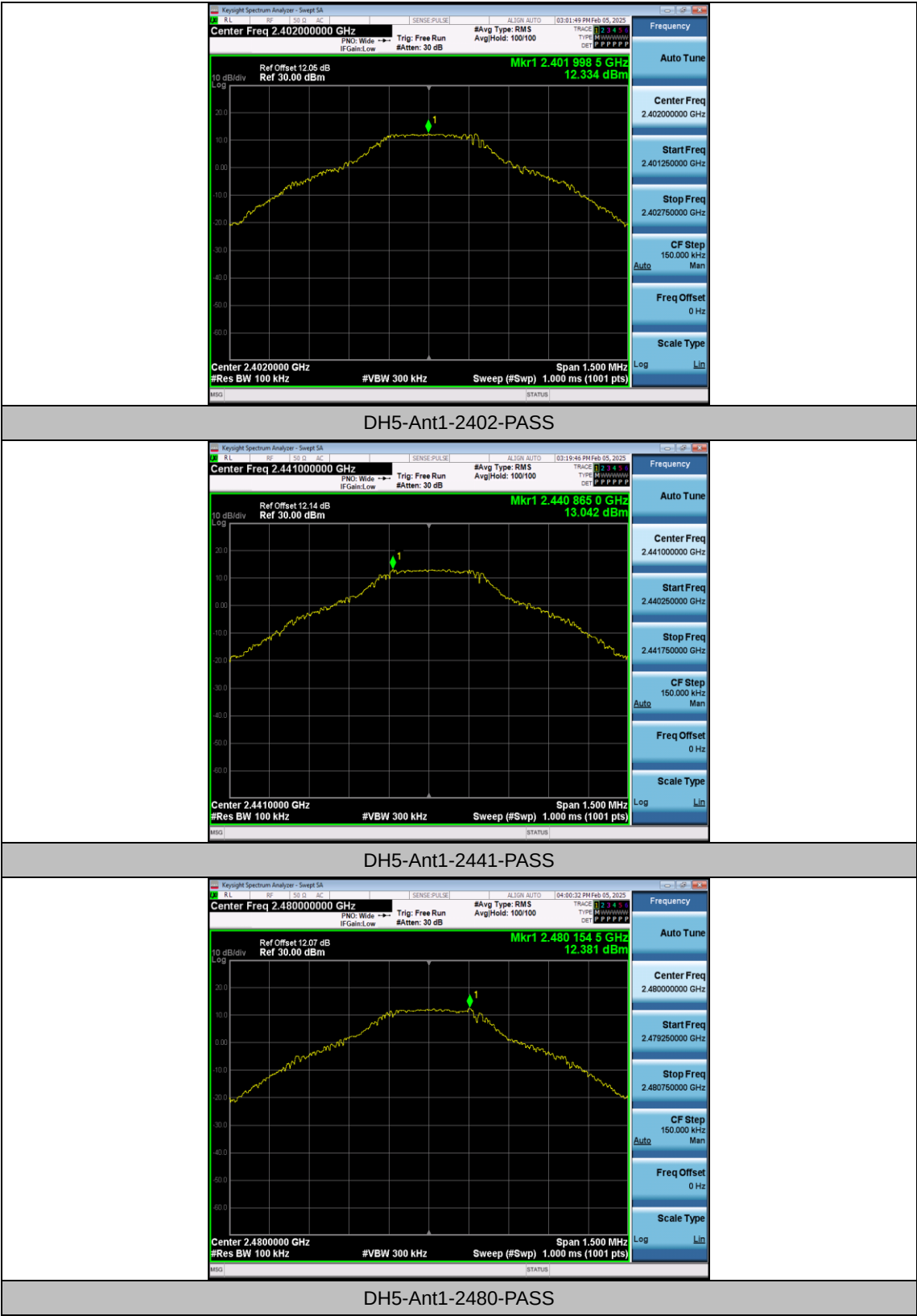


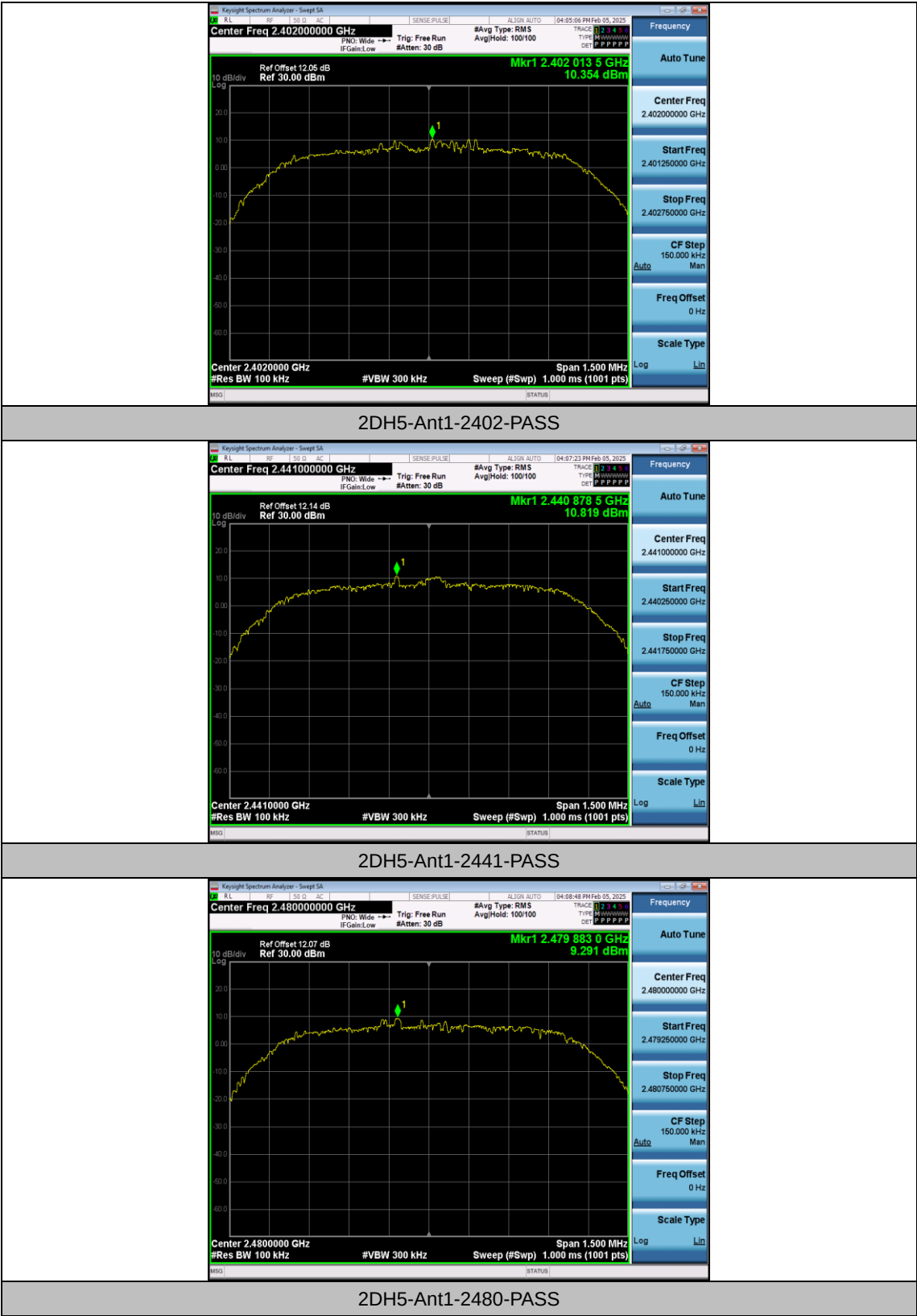
Appendix F: Reference level measurement

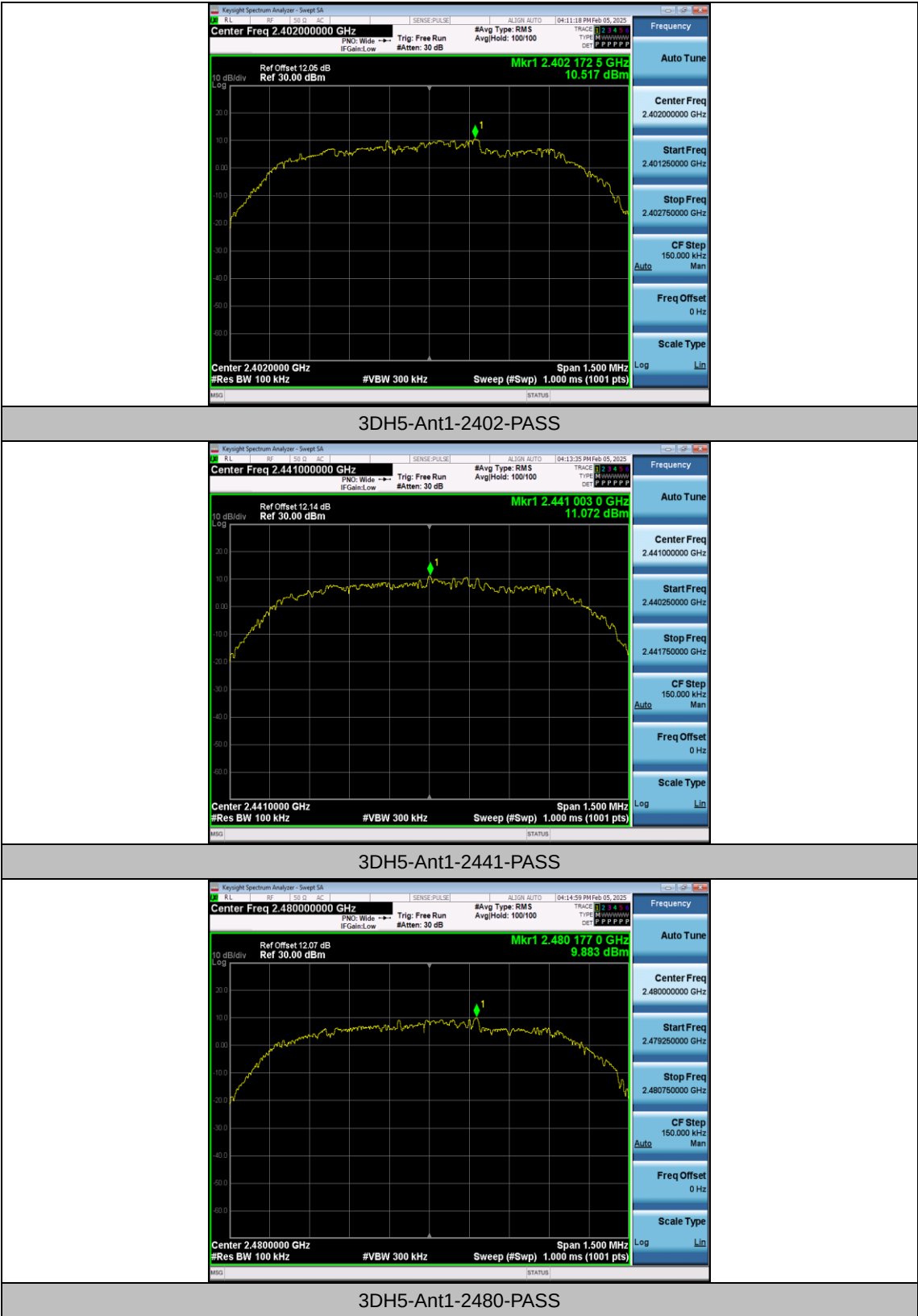
Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
DH5	Ant1	2402	2402.00	12.33
DH5	Ant1	2441	2440.87	13.04
DH5	Ant1	2480	2480.15	12.38
2DH5	Ant1	2402	2402.01	10.35
2DH5	Ant1	2441	2440.88	10.82
2DH5	Ant1	2480	2479.88	9.29
3DH5	Ant1	2402	2402.17	10.52
3DH5	Ant1	2441	2441.00	11.07
3DH5	Ant1	2480	2480.18	9.88

Test Graphs





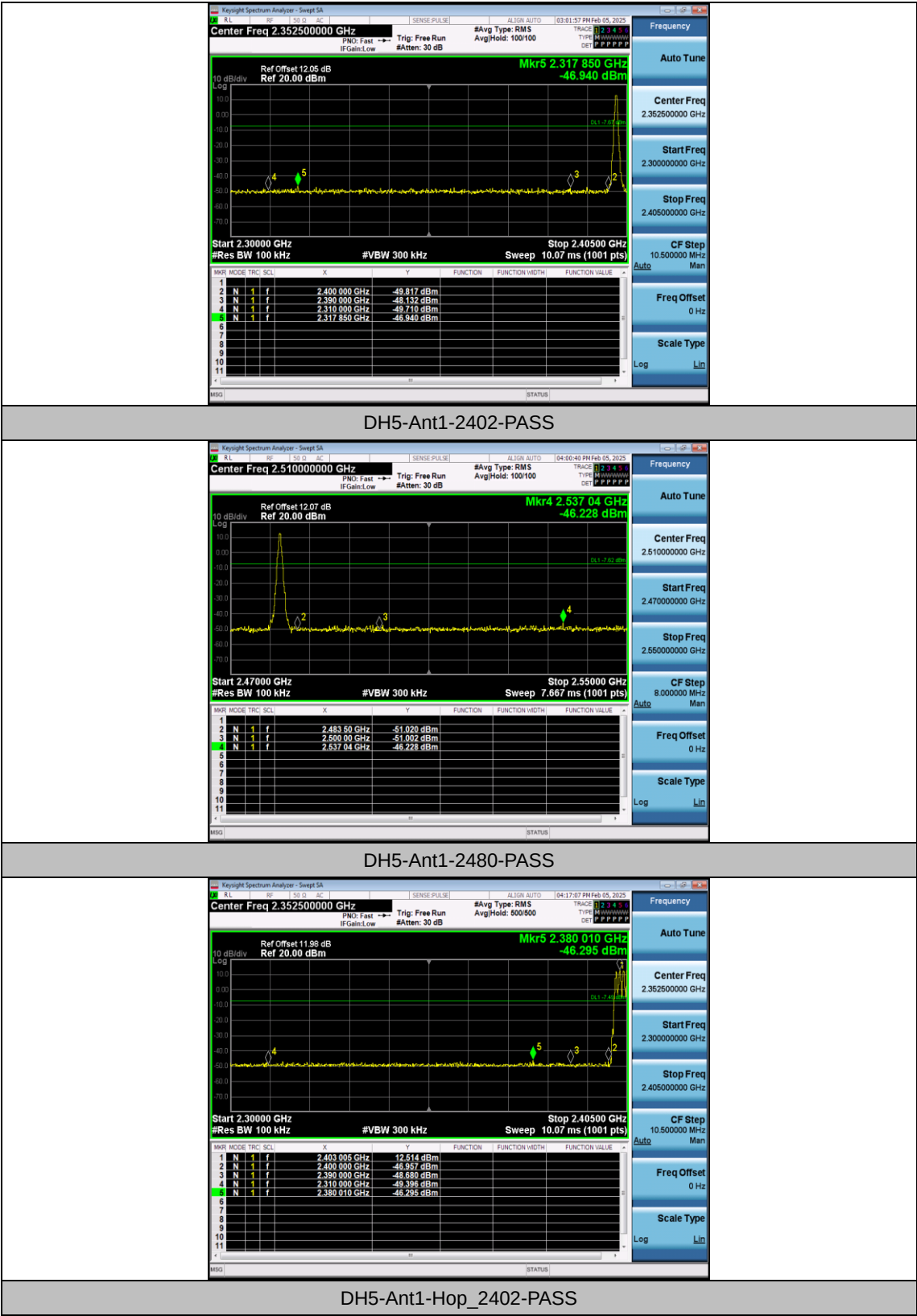


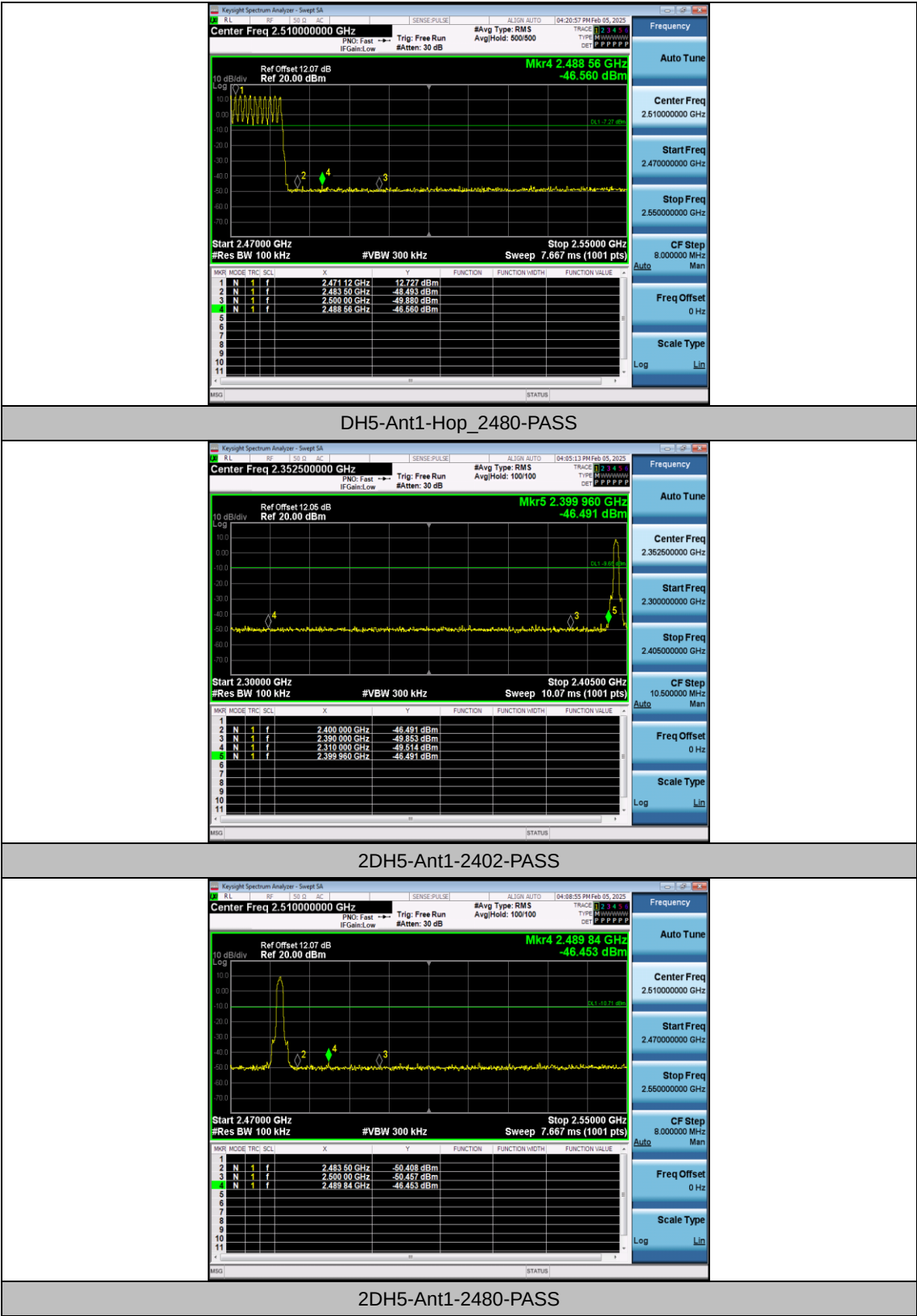
Appendix G: Band edge measurements

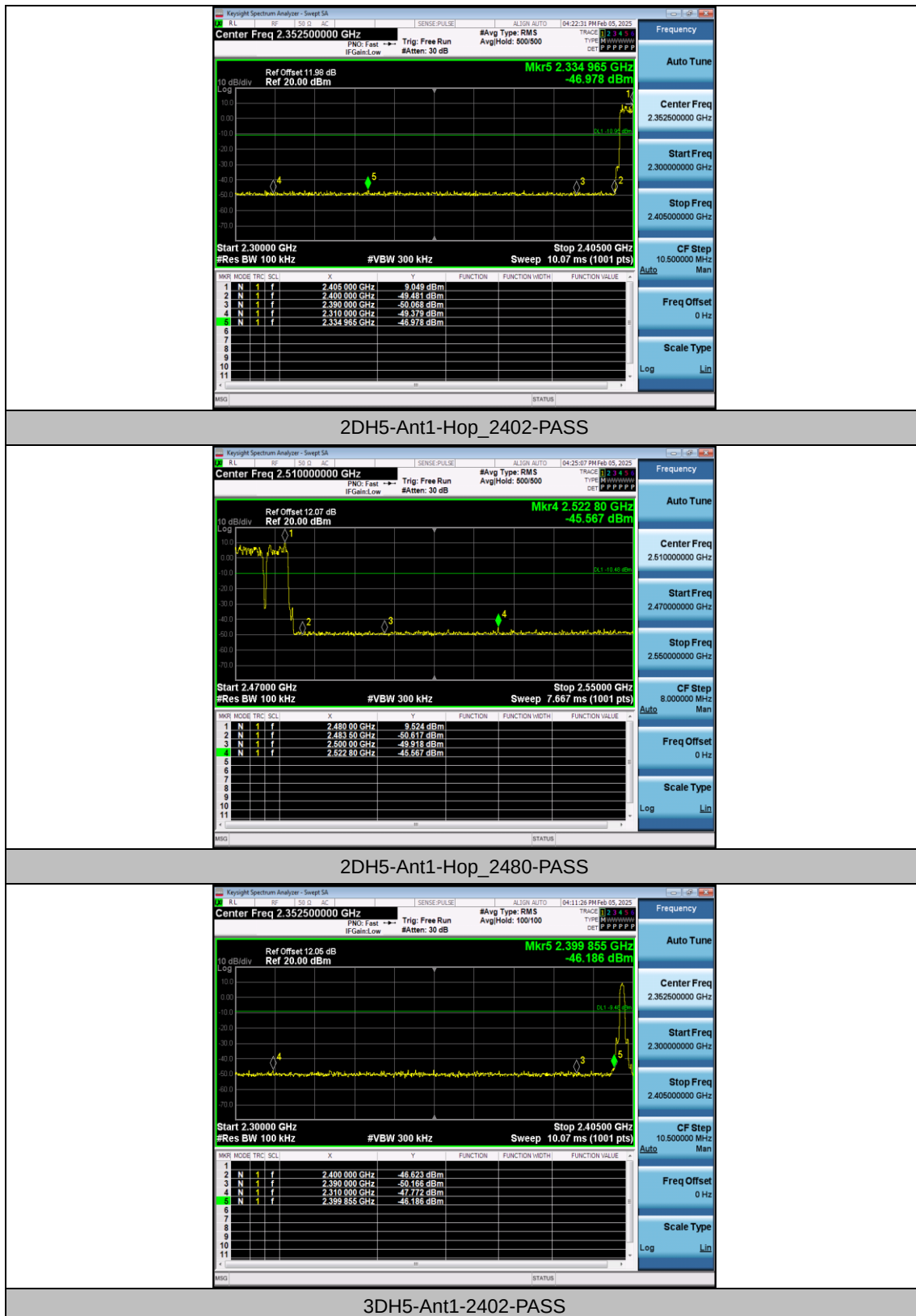
Test Result

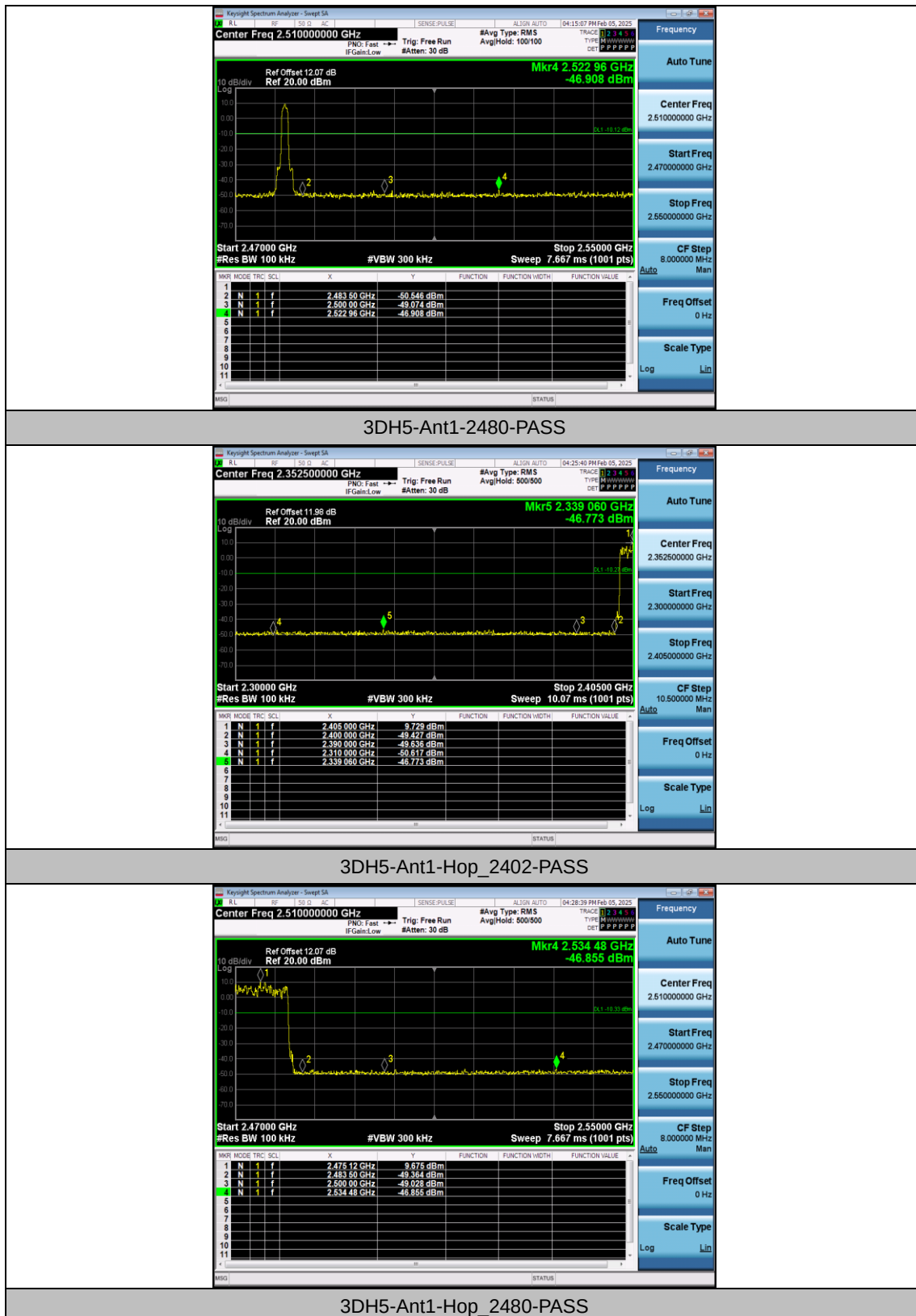
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	12.33	-46.94	≤ -7.67	PASS
DH5	Ant1	High	2480	12.38	-46.23	≤ -7.62	PASS
DH5	Ant1	Low	Hop_2402	12.51	-46.3	≤ -7.49	PASS
DH5	Ant1	High	Hop_2480	12.73	-46.56	≤ -7.27	PASS
2DH5	Ant1	Low	2402	10.35	-46.49	≤ -9.65	PASS
2DH5	Ant1	High	2480	9.29	-46.45	≤ -10.71	PASS
2DH5	Ant1	Low	Hop_2402	9.05	-46.98	≤ -10.95	PASS
2DH5	Ant1	High	Hop_2480	9.52	-45.57	≤ -10.48	PASS
3DH5	Ant1	Low	2402	10.52	-46.19	≤ -9.48	PASS
3DH5	Ant1	High	2480	9.88	-46.91	≤ -10.12	PASS
3DH5	Ant1	Low	Hop_2402	9.73	-46.77	≤ -10.27	PASS
3DH5	Ant1	High	Hop_2480	9.68	-46.86	≤ -10.33	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	30~1000	12.33	-59.46	≤-7.67	PASS
DH5	Ant1	2402	1000~26500	12.33	-44.47	≤-7.67	PASS
DH5	Ant1	2441	30~1000	13.04	-58.6	≤-6.96	PASS
DH5	Ant1	2441	1000~26500	13.04	-44.1	≤-6.96	PASS
DH5	Ant1	2480	30~1000	12.38	-58.92	≤-7.62	PASS
DH5	Ant1	2480	1000~26500	12.38	-44.45	≤-7.62	PASS
2DH5	Ant1	2402	30~1000	10.35	-59	≤-9.65	PASS
2DH5	Ant1	2402	1000~26500	10.35	-44.48	≤-9.65	PASS
2DH5	Ant1	2441	30~1000	10.82	-59.37	≤-9.18	PASS
2DH5	Ant1	2441	1000~26500	10.82	-44.04	≤-9.18	PASS
2DH5	Ant1	2480	30~1000	9.29	-59.46	≤-10.71	PASS
2DH5	Ant1	2480	1000~26500	9.29	-44.11	≤-10.71	PASS
3DH5	Ant1	2402	30~1000	10.52	-59.2	≤-9.48	PASS
3DH5	Ant1	2402	1000~26500	10.52	-44.65	≤-9.48	PASS
3DH5	Ant1	2441	30~1000	11.07	-59.27	≤-8.93	PASS
3DH5	Ant1	2441	1000~26500	11.07	-43.84	≤-8.93	PASS
3DH5	Ant1	2480	30~1000	9.88	-59.73	≤-10.12	PASS
3DH5	Ant1	2480	1000~26500	9.88	-43.8	≤-10.12	PASS