

Appendix Test Data for LoRa-Hybrid (Conducted Measurement)

Product Name: Outdoor LoRa Gateway

Trade Mark: Dusun

Test Model: DSGW-014

FCC ID: 2AUXBDSGW-014

Environmental Conditions

Temperature:	22.7℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

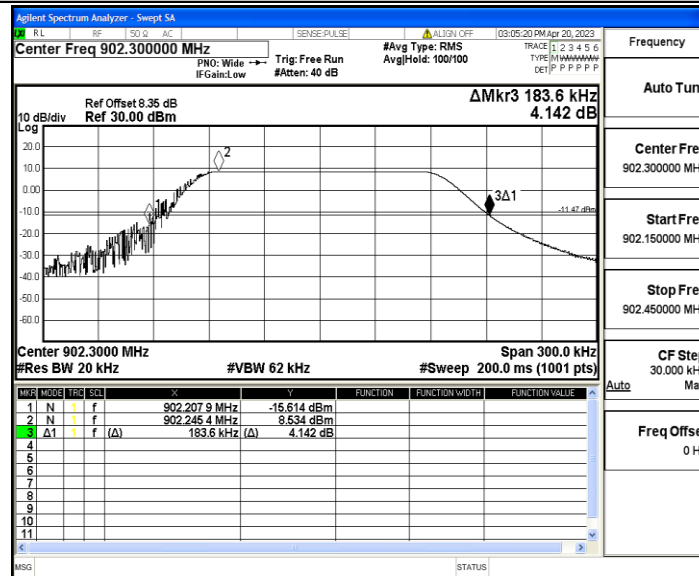
Appendix A.1: 20dB Emission Bandwidth

Test Result

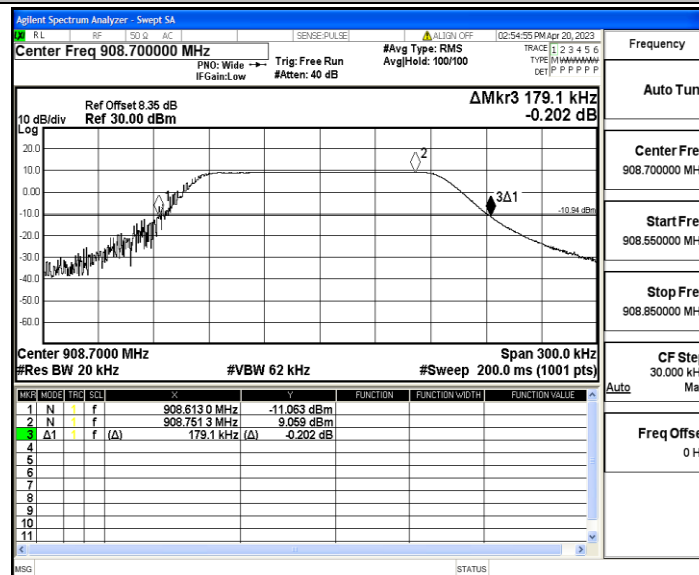
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LoRa-Hybrid	Ant2	902.3	0.184	902.208	902.392	---	---
		908.7	0.179	908.613	908.792	---	---
		914.9	0.185	914.807	914.992	---	---

Test Graphs

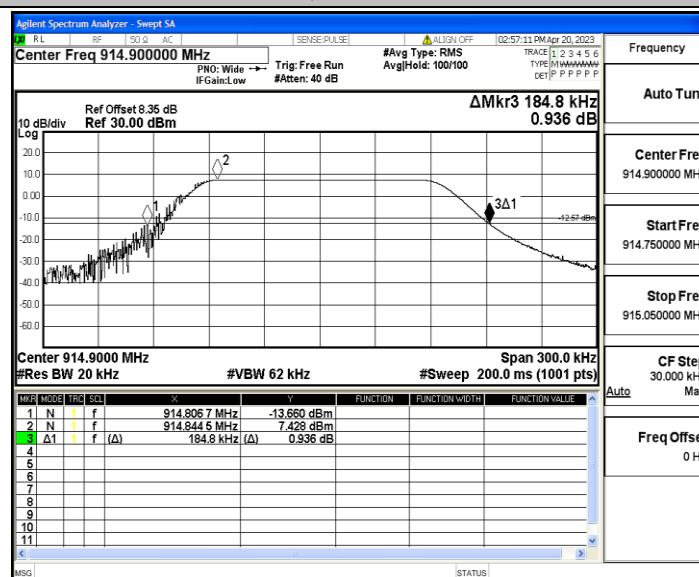
LoRa-Hybrid_Ant2_902.3



LoRa-Hybrid_Ant2_908.7



LoRa-Hybrid_Ant2_914.9

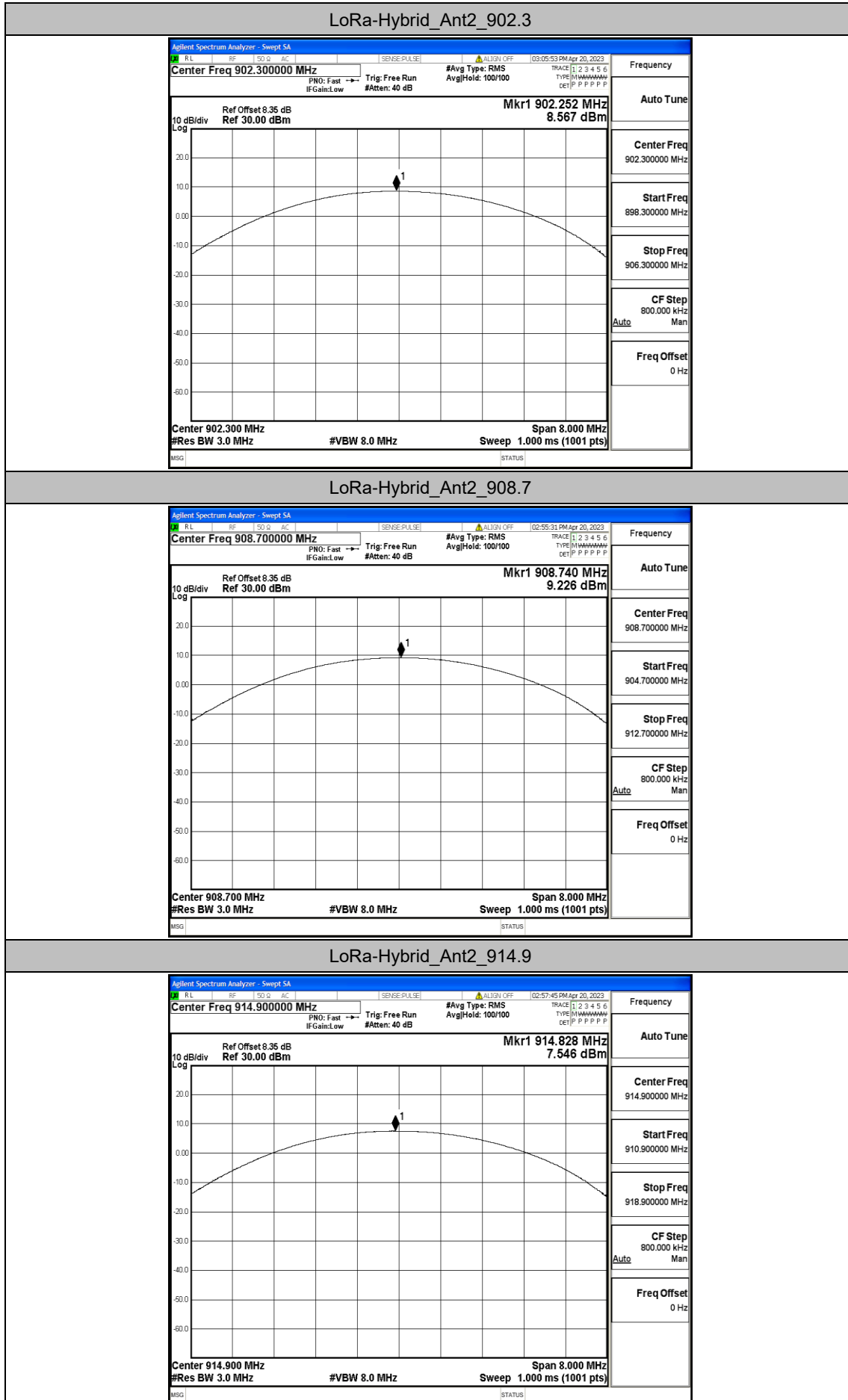


Appendix B: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
LoRa-Hybrid	Ant2	902.3	8.57	≤30	PASS
		908.7	9.23	≤30	PASS
		914.9	7.55	≤30	PASS

Test Graphs

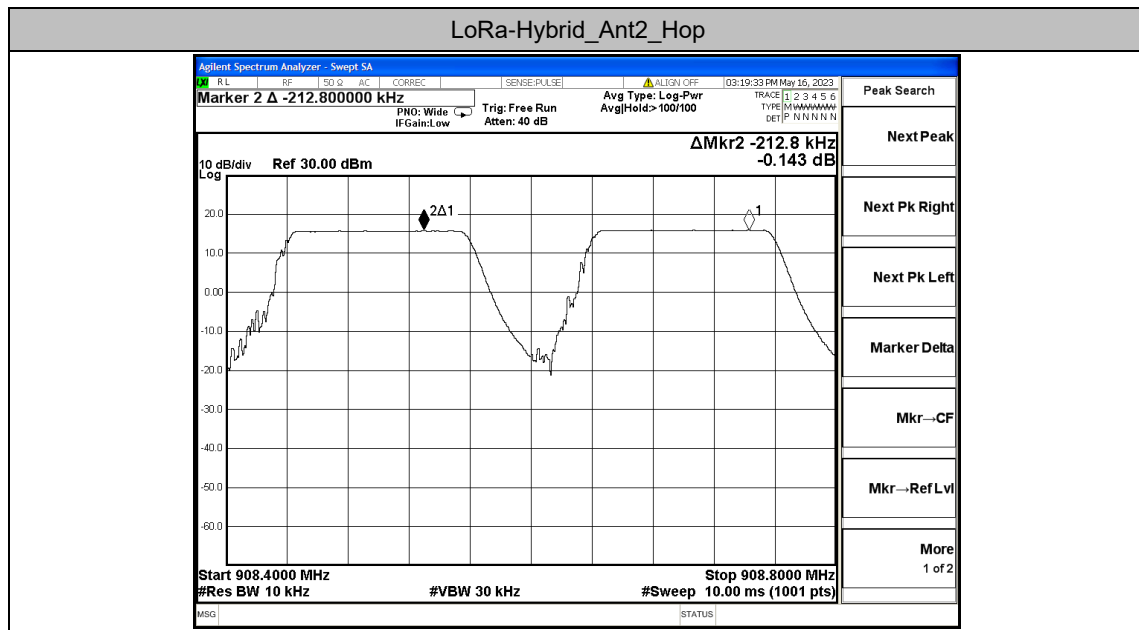


Appendix C: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
LoRa-Hybrid	Ant2	Hop	0.2128	≥0.179	PASS

Test Graphs

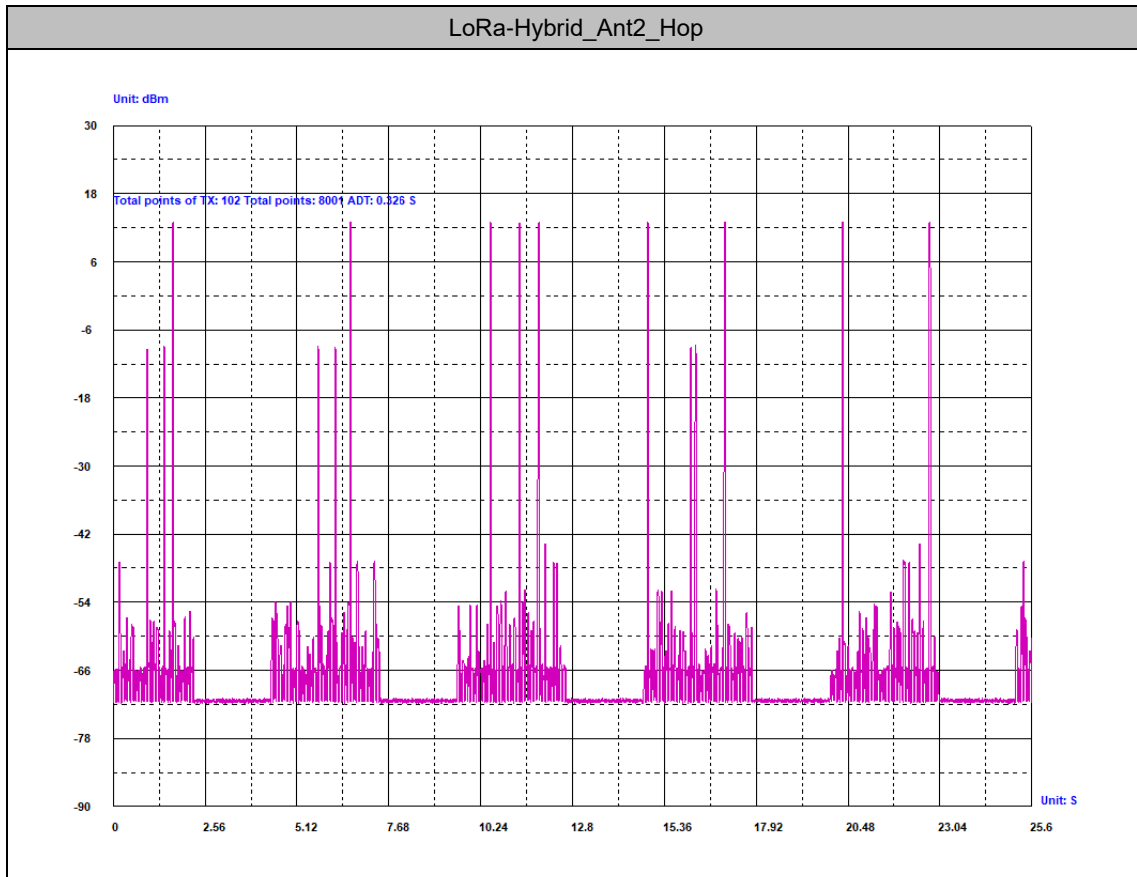


Appendix D: Time of occupancy

Test Result

TestMode	Antenna	Channel	Total Points	TX Points	Result[s]	Limit[s]	Verdict
LoRa-Hybrid	Ant2	Hop	8001	102	0.326	<=0.4	PASS

Test Graphs

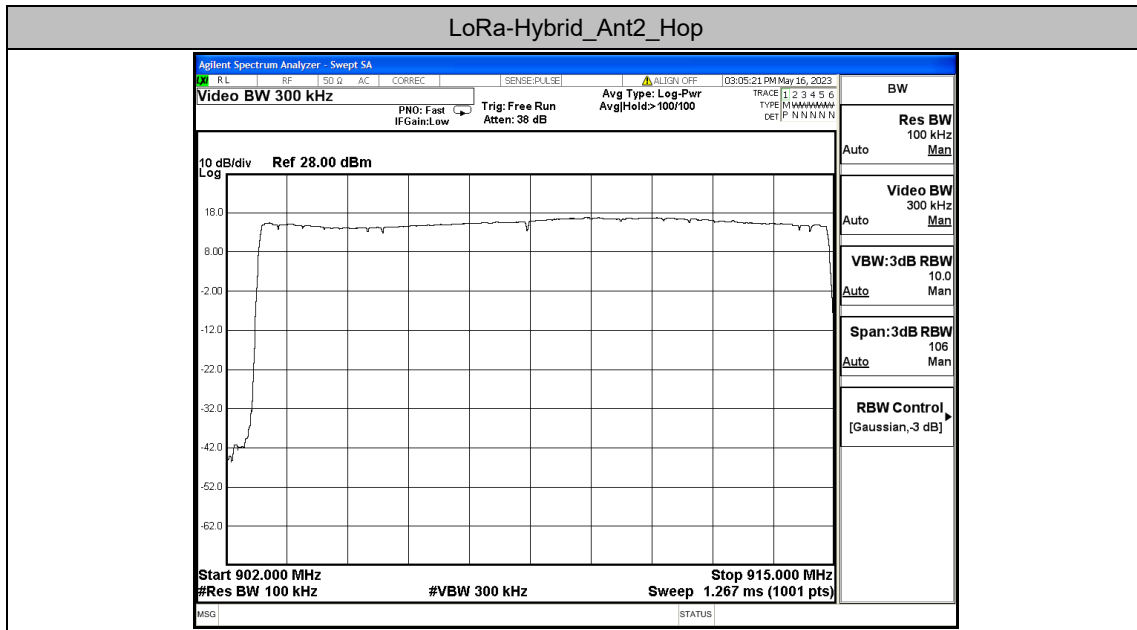


Appendix E: Number of hopping channels

Test Result

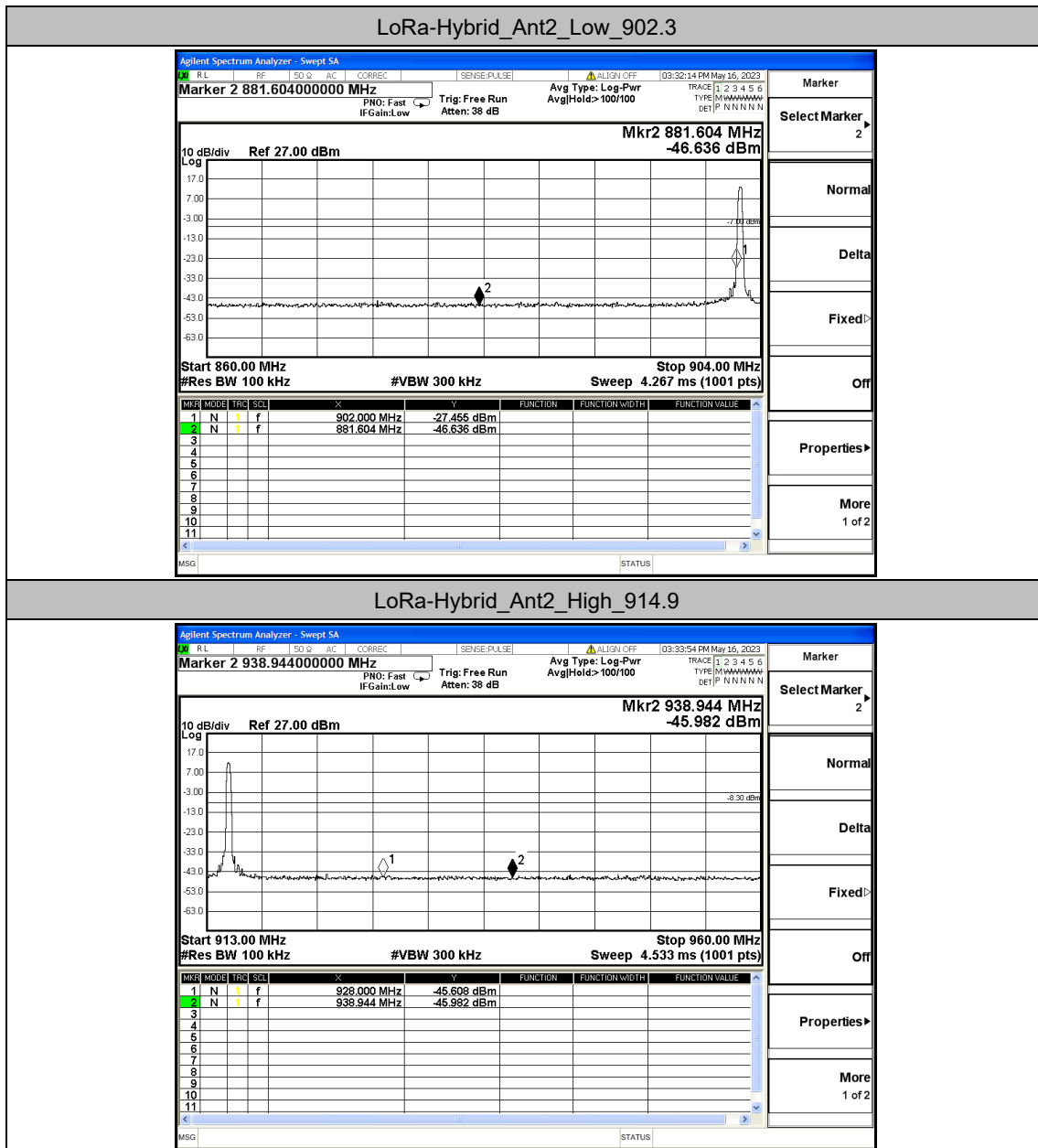
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
LoRa-Hybrid	Ant2	Hop	64	>=15	PASS

Test Graphs



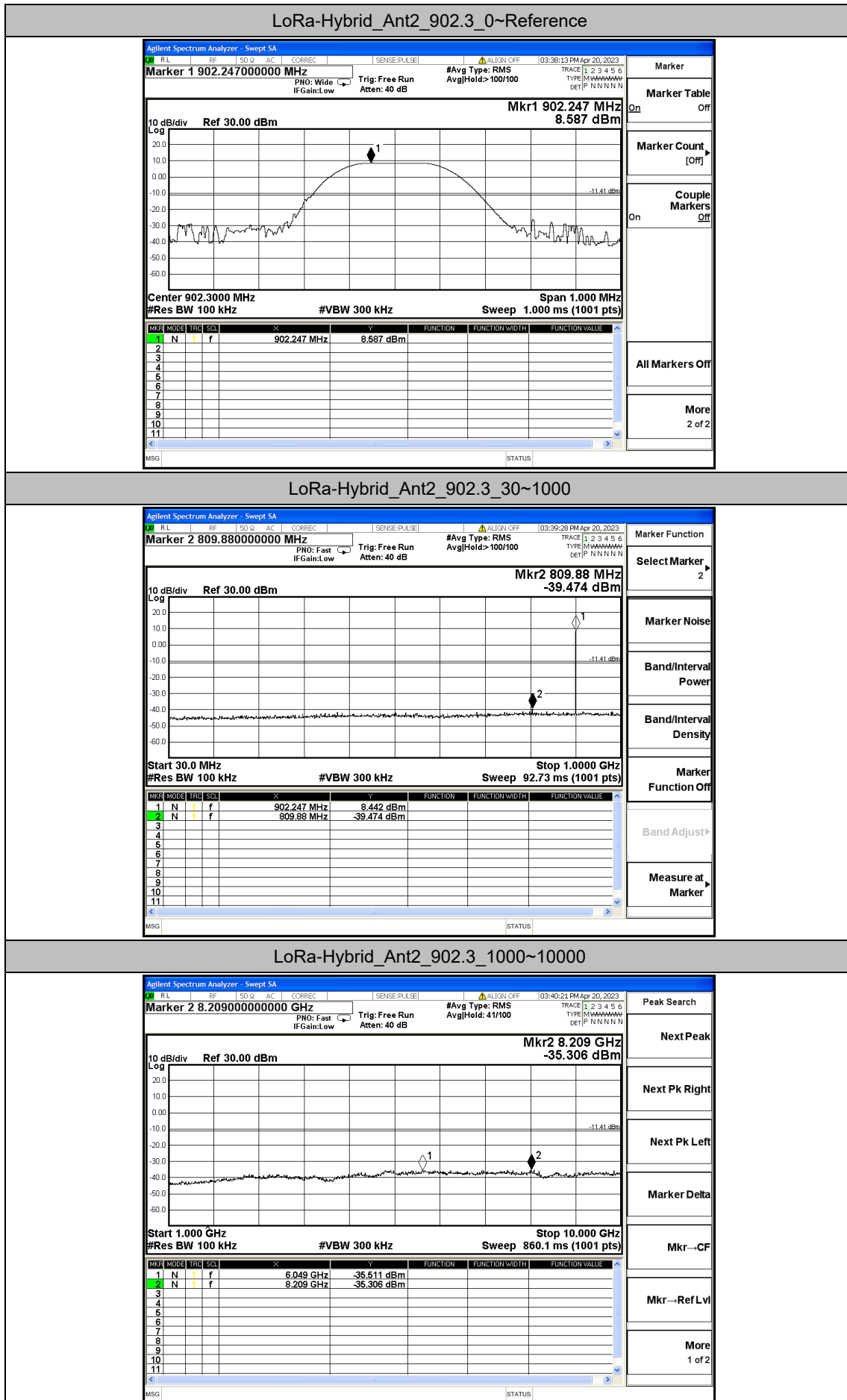
Appendix F: Band edge measurements

Test Graphs

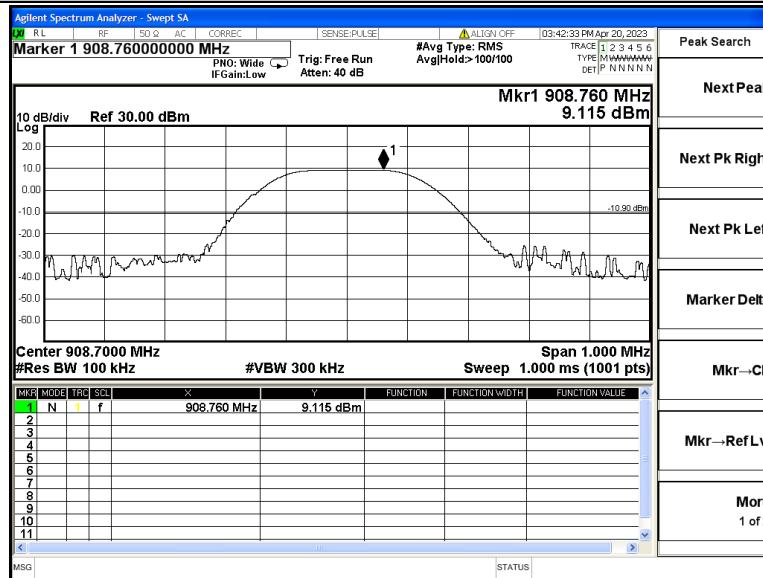


Appendix G: Conducted Spurious Emission

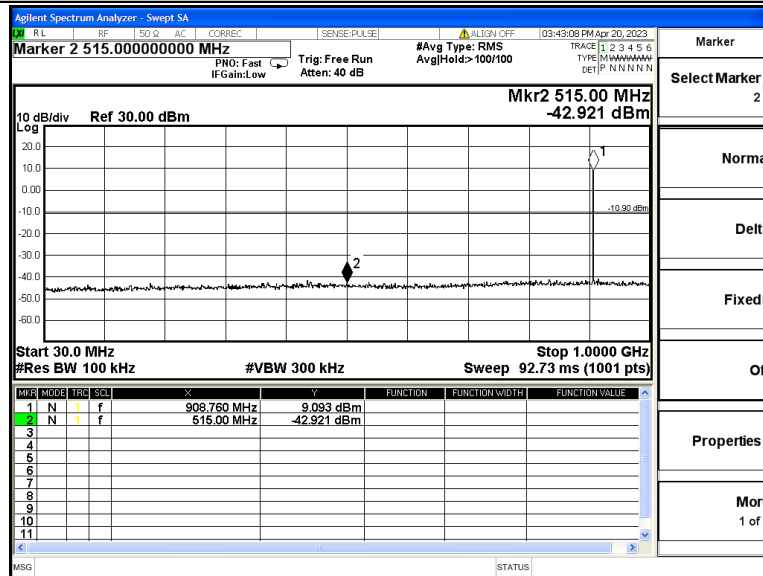
Test Graphs



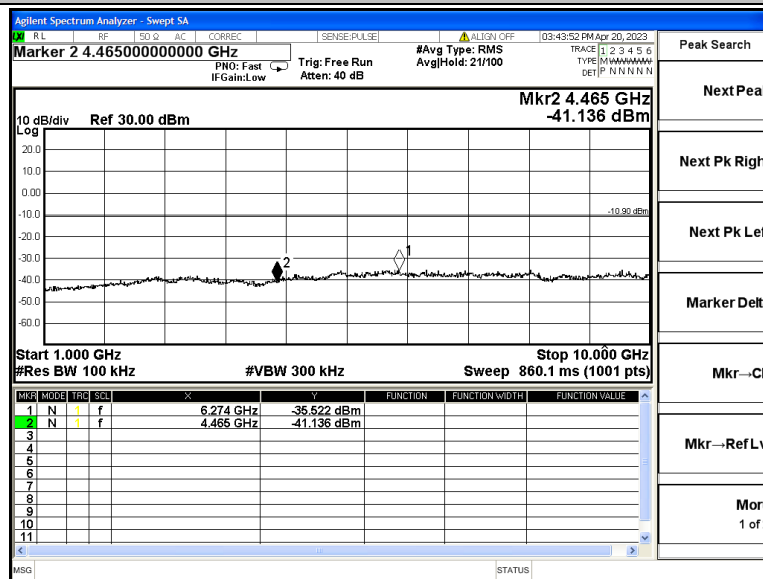
LoRa-Hybrid_Ant2_908.7_0~Reference



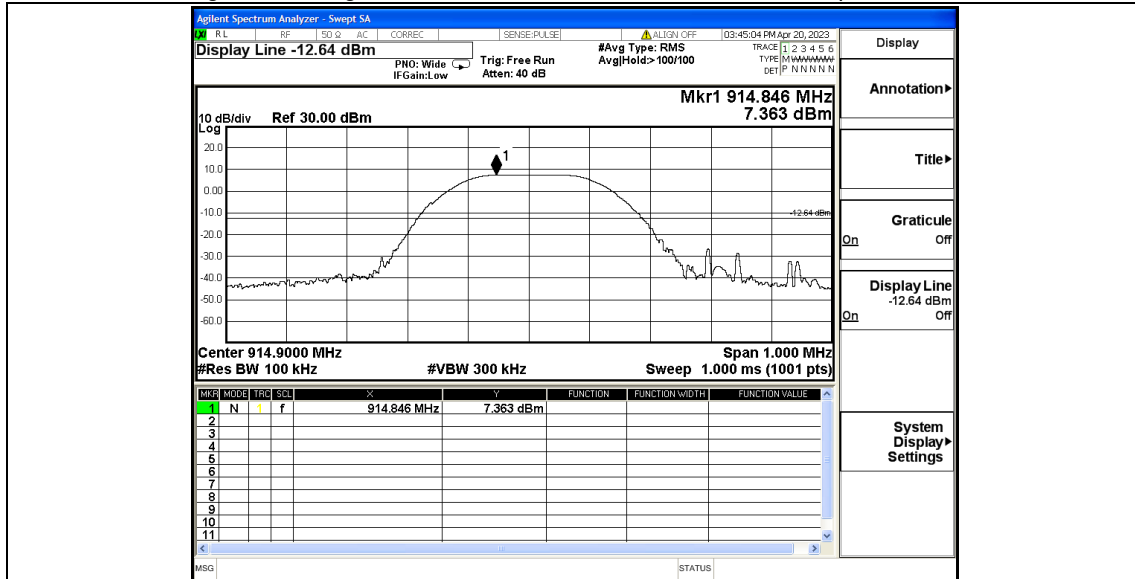
LoRa-Hybrid_Ant2_908.7_30~1000



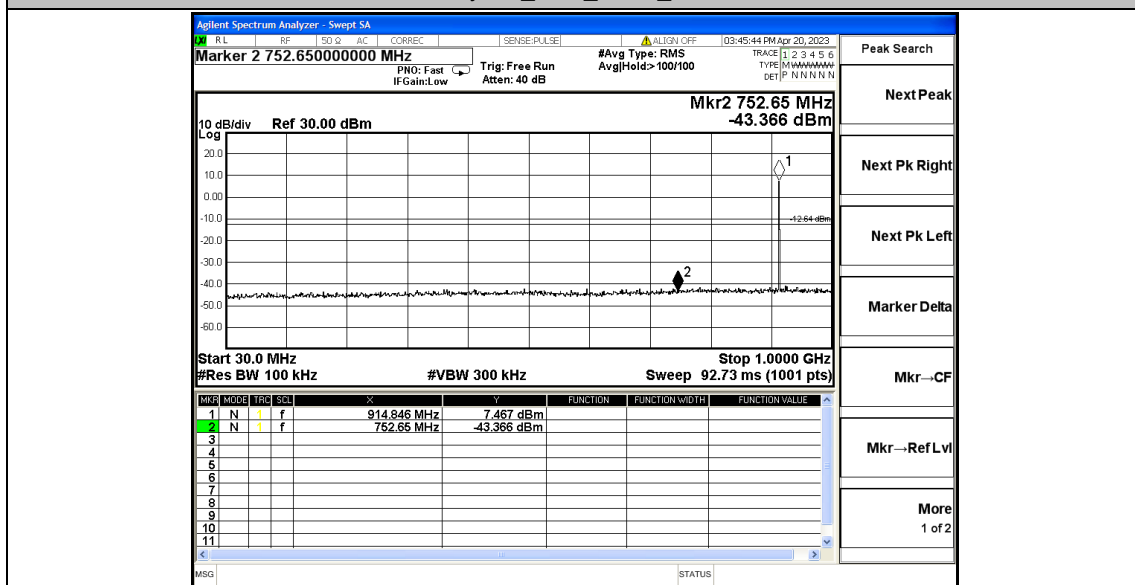
LoRa-Hybrid_Ant2_908.7_1000~10000



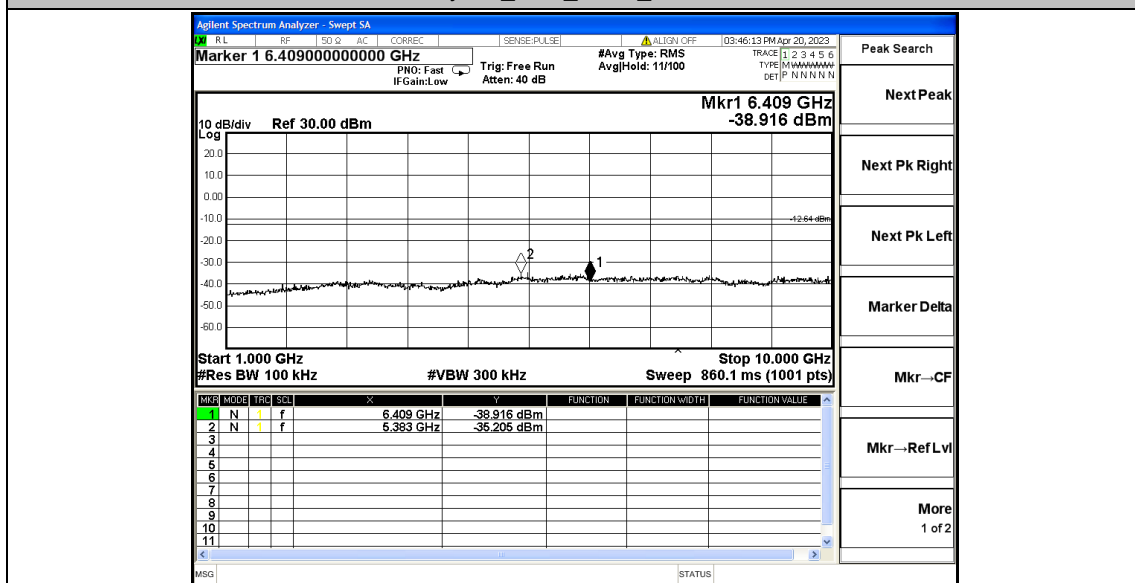
LoRa-Hybrid_Ant2_914.9_0~Reference



LoRa-Hybrid_Ant2_914.9_30~1000



LoRa-Hybrid_Ant2_914.9_1000~26500



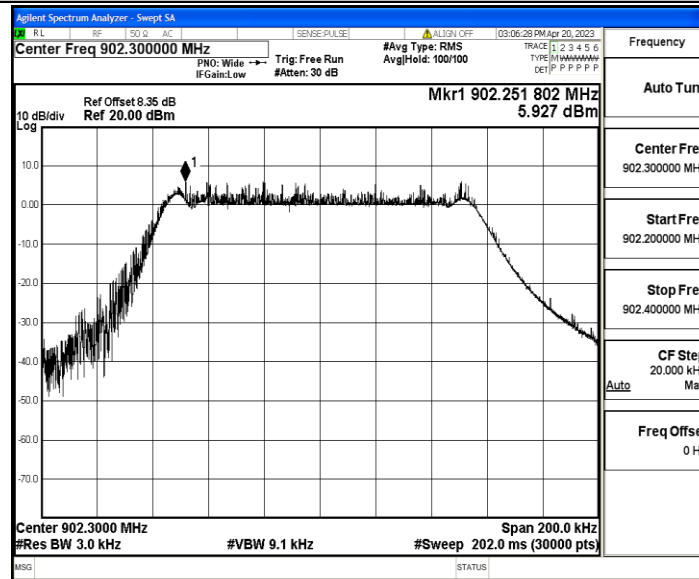
Appendix H: Peak power spectral density

Test Result

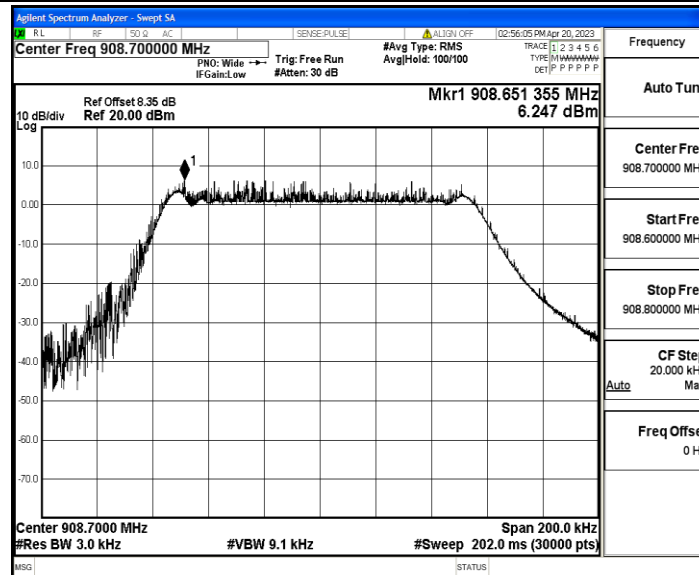
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
LoRa-Hybrid	Ant2	902.3	5.93	<=8	PASS
		908.7	6.25	<=8	PASS
		914.9	4.92	<=8	PASS

Test Graphs

LoRa-Hybrid_Ant2_902.3



LoRa-Hybrid_Ant2_908.7



LoRa-Hybrid_Ant2_914.9

