Report No.: HK1911122859-E

Appendix A

RF Test Data for Lora-FHSS(902-928MHz Hopping Mode)

(Conducted Measurement)

Product Name: LoRa module
Trade Mark: RAK
Test Model: RAK4260(H)

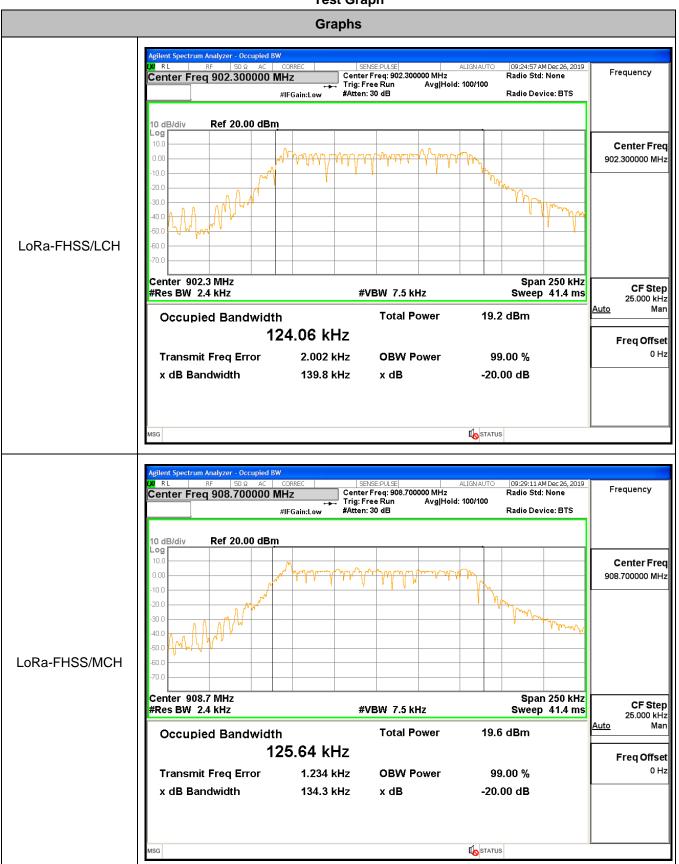
FCC ID: 2AF6B-RAK4260H

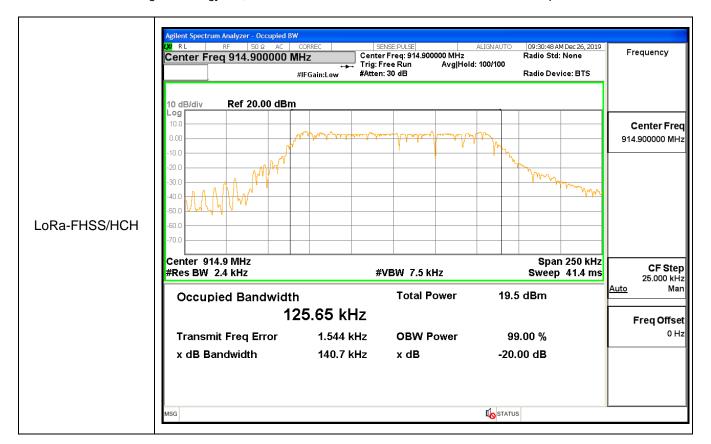
Environmental Conditions

Temperature:	22.3℃
Relative Humidity:	48%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

A.1 20 dB Bandwidth and 99% Occupied Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
LoRa-FHSS	LCH	0.140	Not Specified	PASS
LoRa-FHSS	MCH	0.134	Not Specified	PASS
LoRa-FHSS	HCH	0.141	Not Specified	PASS

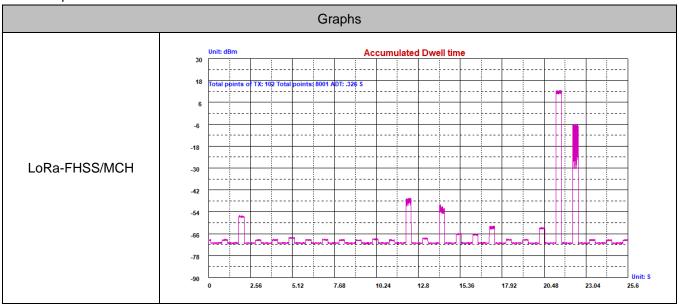




A.2 Dwell Time

Mode	Cha nnel	TX _{on} Points	Total Points	Dwell Time[s]	Limit [s]	Verdic t
LoRa-FHSS	MCH	102	8001	0.326	0.4	PASS

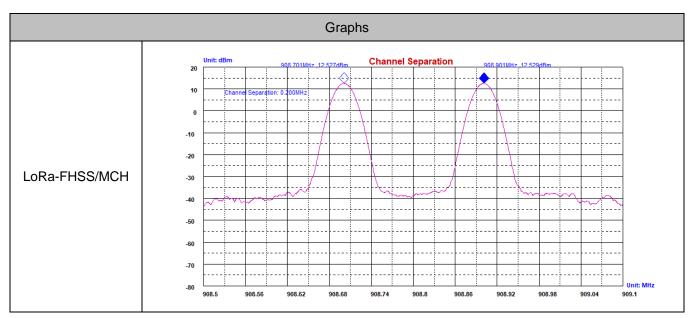




A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [KHz]	Limit [KHz]	Verdict
LoRa-FHSS	MCH	497	64.55	PASS

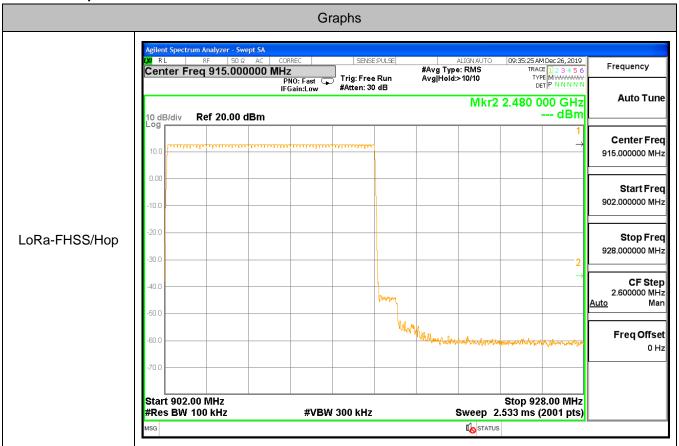
Test Graph



Note: this test under absence of modulation condition.

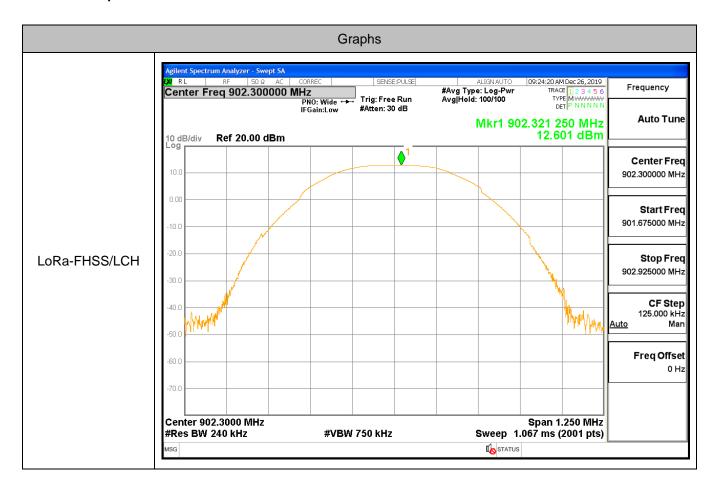
A.4 Hopping Channel Number

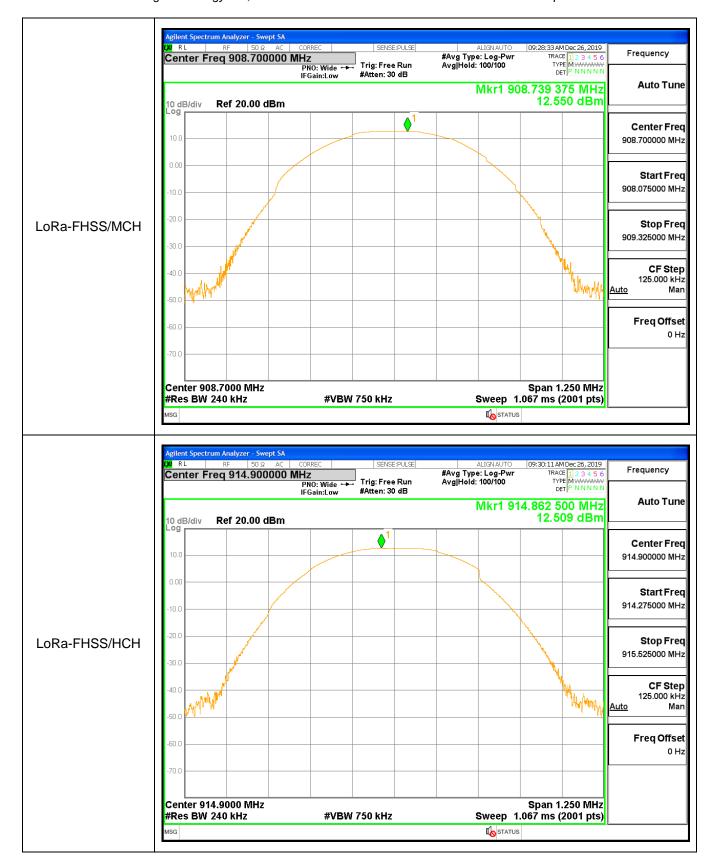
Mode	Channel.	Number of Hopping Channel[N]	Limit[N]	Verdict
FHSS	Нор	64	>=15	PASS



A.5 Conducted Peak Output Power

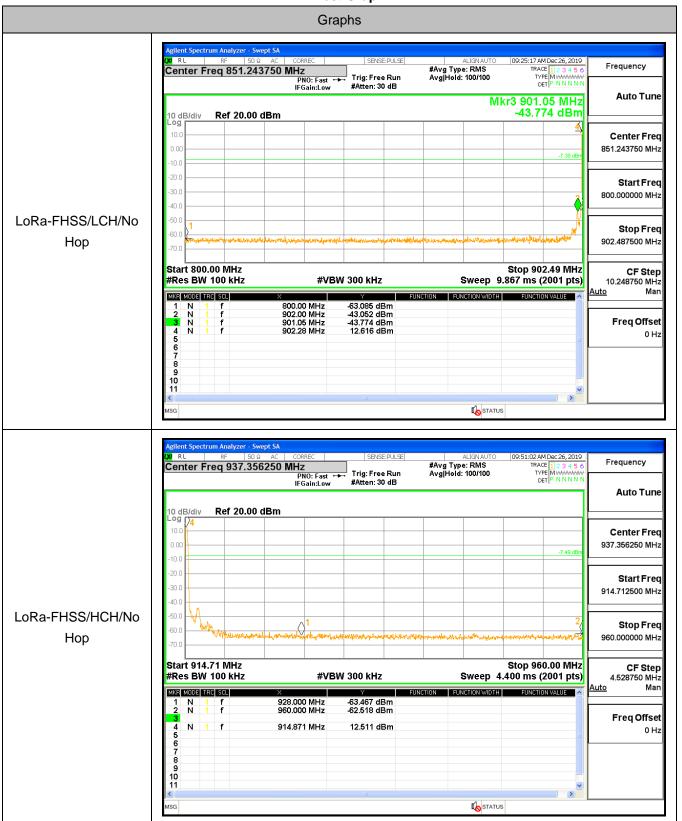
Mode	Channel.	Reading Value [dBm]	Limit [dBm]	Verdict	
LoRa-FH	LCH	12.601	30	PASS	
SS	LOF	12.601	30	PASS	
LoRa-FH	MCH	12.550	30	PASS	
SS	IVICIT	12.550	30	PASS	
LoRa-FH	HCH	12.509	30	PASS	
SS	ПСП	12.509	30	FASS	

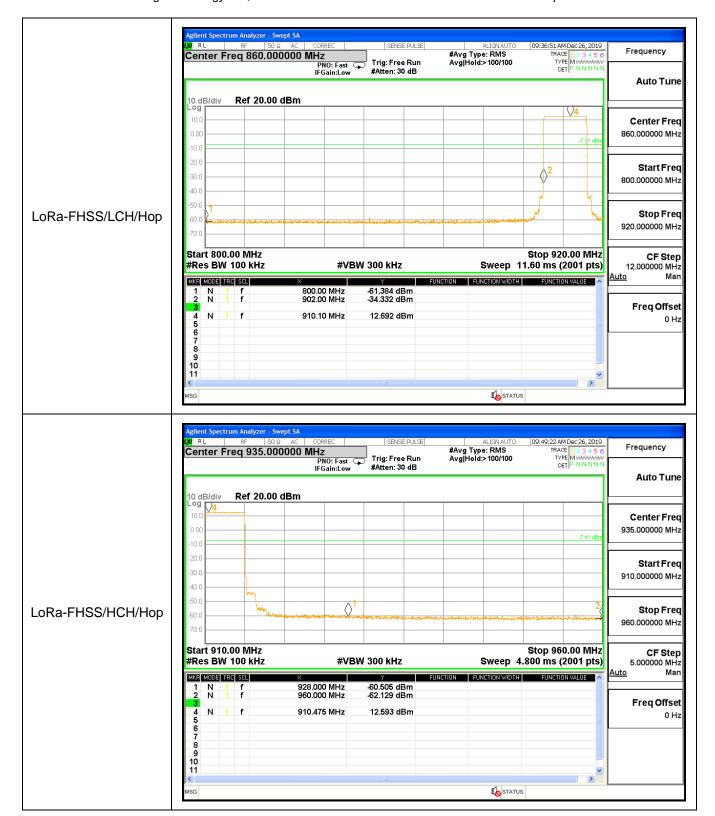




A.6 Band-edge for RF Conducted Emissions

Туре	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
LoRa-FHSS	LCH	902	12.616	-43.05	-7.384	Pass
LoRa-FHSS	LCH	800	12.522	-63.66	-7.478	Pass
LoRa-FHSS	HCH	902	18.237	-32.54	-1.763	Pass
LoRa-FHSS	LCH	902	18.233	-40.65	-1.767	Pass
LoRa-FHSS	Hopping	902	12.692	-34.33	-7.308	Pass
LoRa-FHSS	Hopping	902	12.601	-33.47	-7.399	Pass
LoRa-FHSS	Hopping	902	12.568	-55.48	-7.432	Pass
LoRa-FHSS	Hopping	928	12.593	-60.50	-7.407	Pass





A.7 RF Conducted Spurious Emissions

