

## Appendix A

### RF Test Data for Lora-DTS (902-928MHz DTS Mode)

Product Name: LoRa module

Trade Mark: RAK

Test Model: RAK4260(H)

FCC ID: 2AF6B-RAK4260H

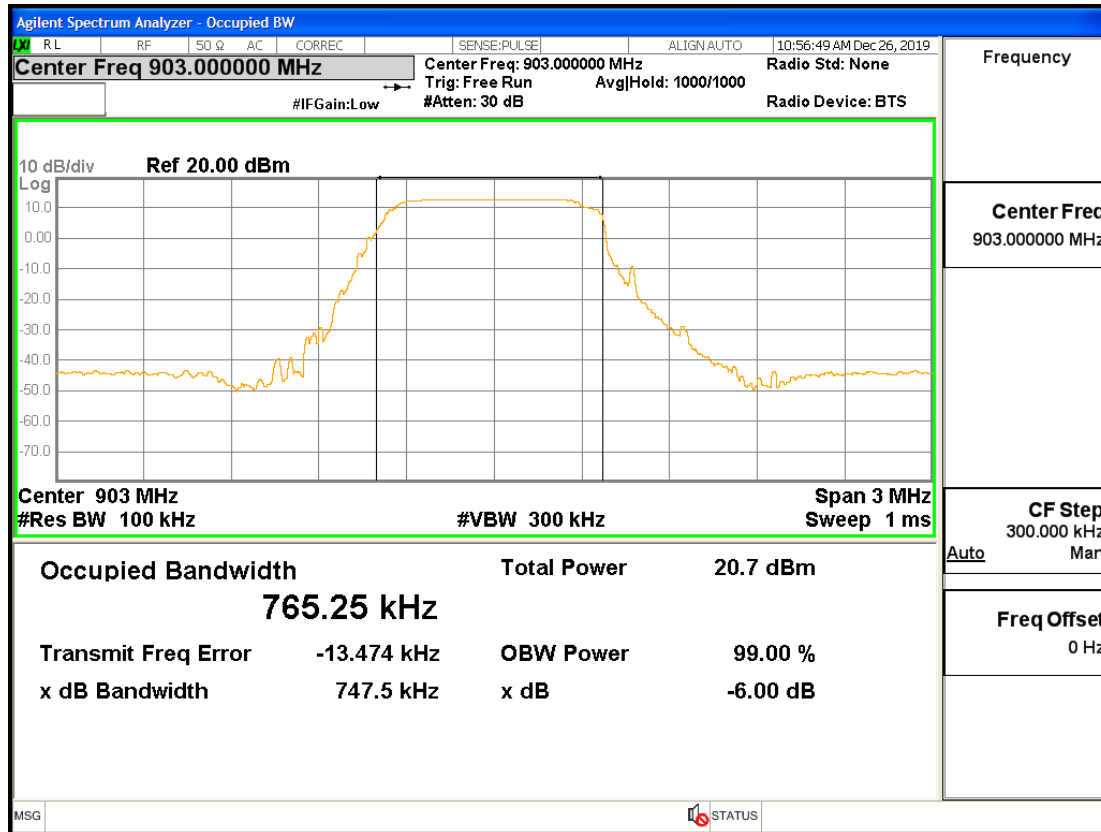
### Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

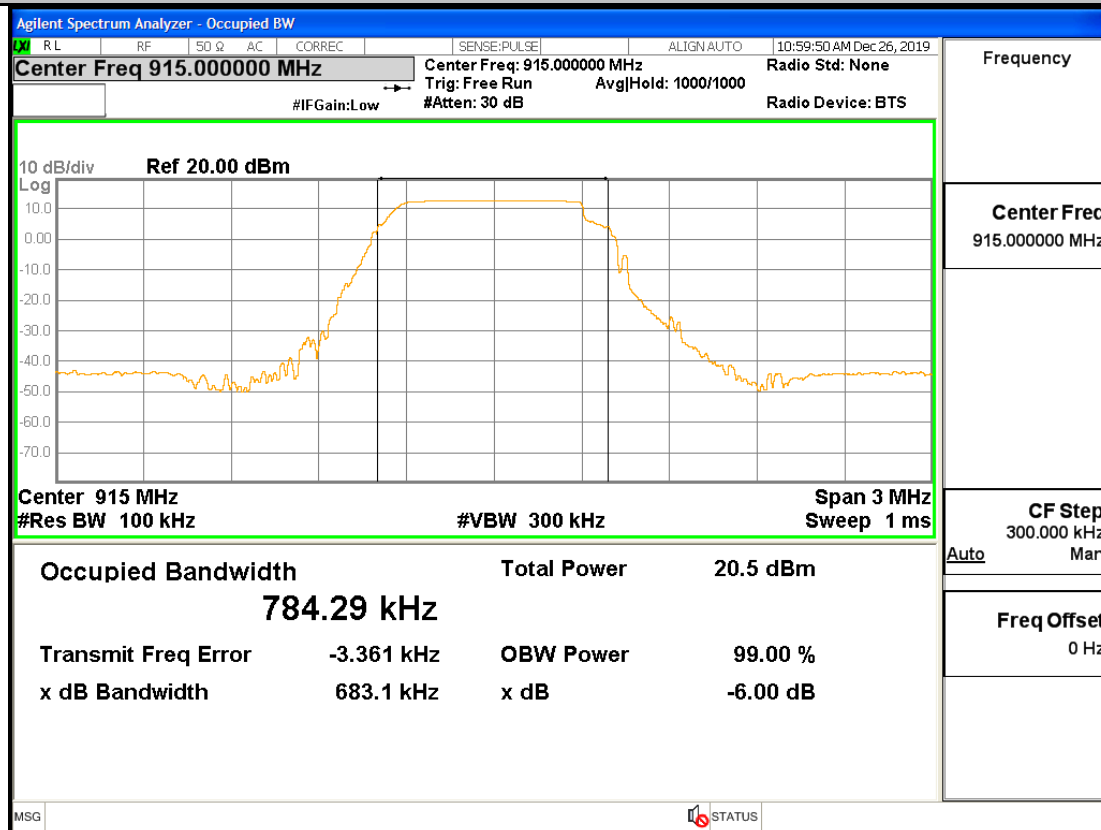
### 1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
Lora-DTS	LCH	Ant1	0.748	0.5	PASS
Lora-DTS	MCH	Ant1	0.683	0.5	PASS
Lora-DTS	HCH	Ant1	0.686	0.5	PASS

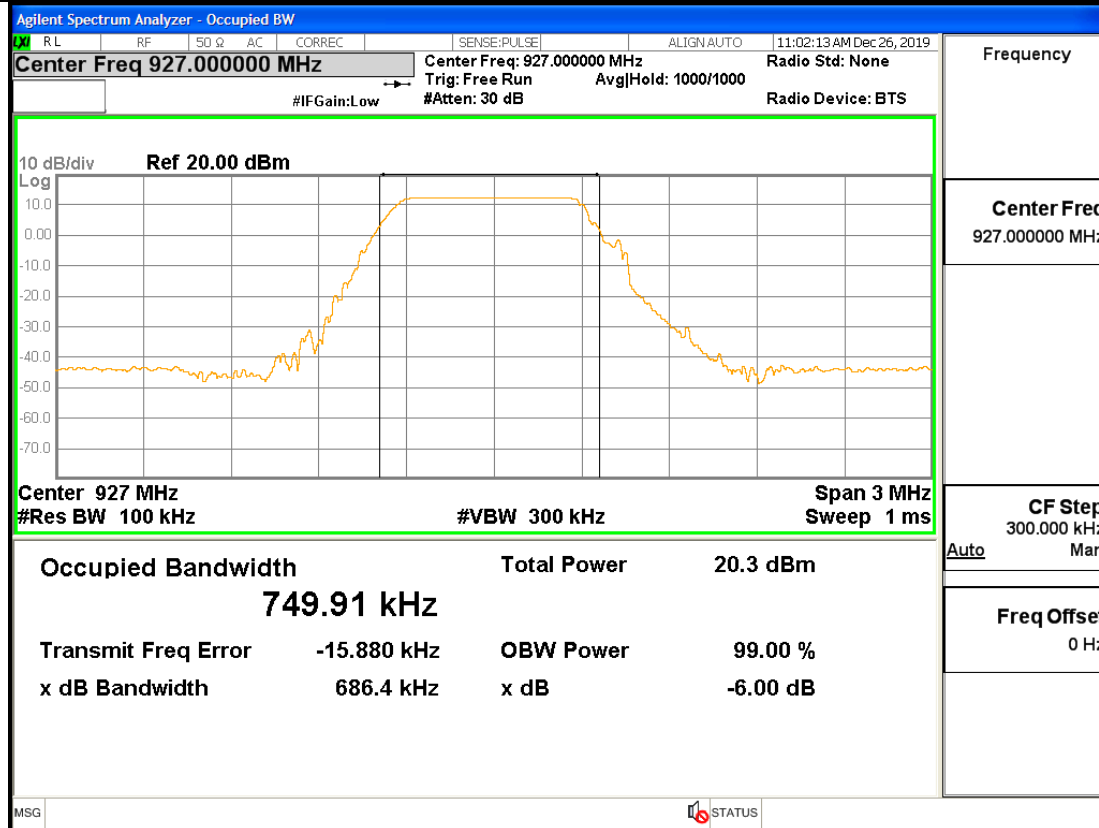
## 6dB Bandwidth\_LCH\_Ant1



## 6dB Bandwidth\_MCH\_Ant1



## 6dB Bandwidth\_HCH\_Ant1



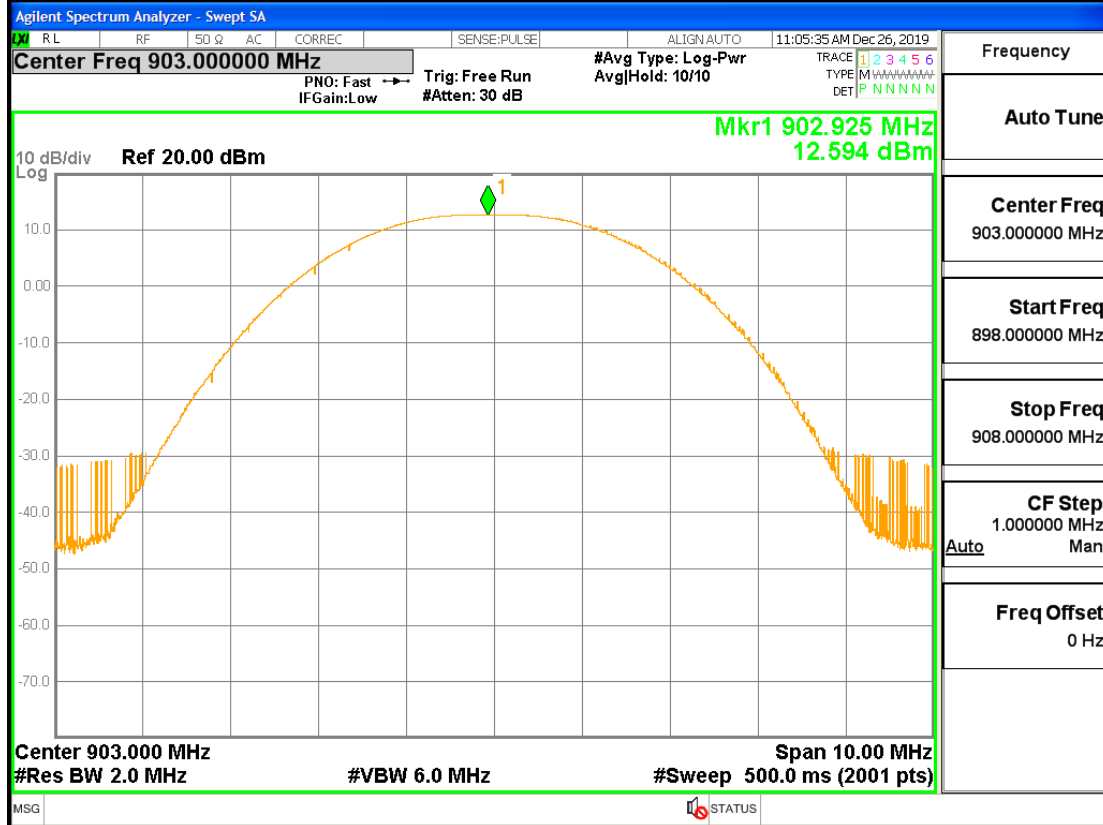
**2.Occupied Bandwidth**

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
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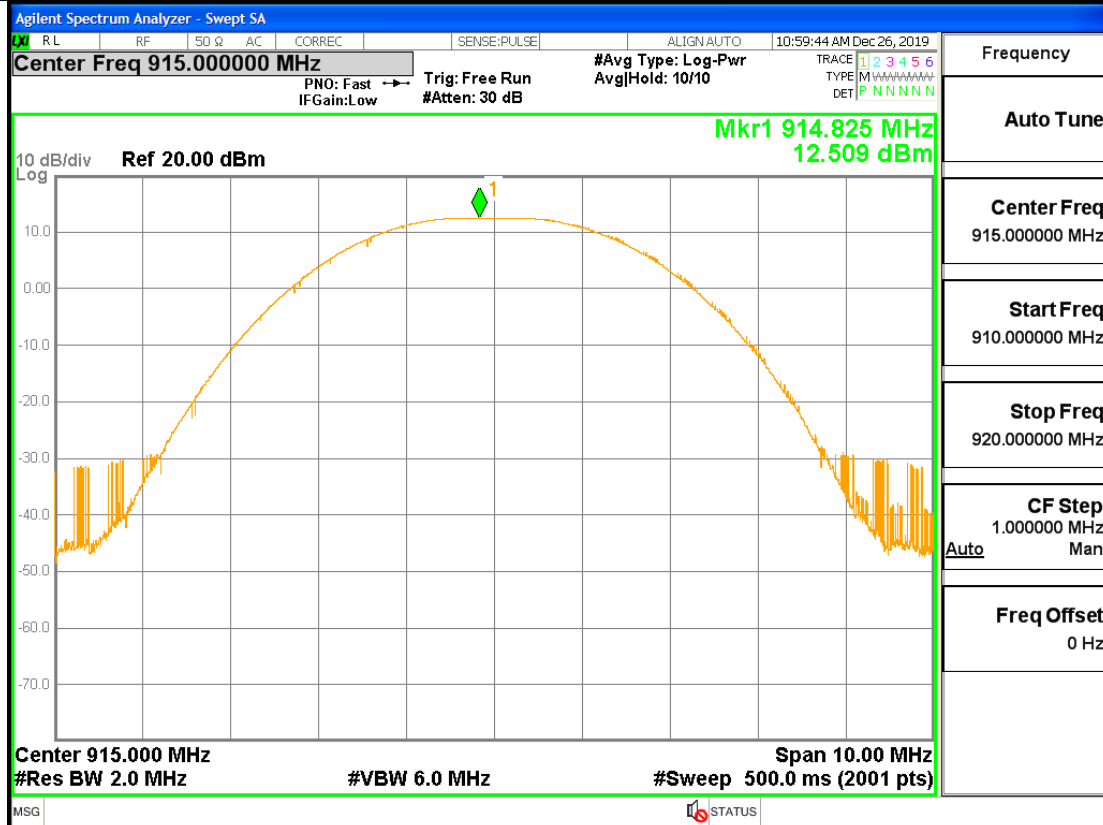
**3.Maximum peak conducted output power**

Test Mode	Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
Lora-DTS	LCH	Ant1	12.594	30	PASS
Lora-DTS	MCH	Ant1	12.509	30	PASS
Lora-DTS	HCH	Ant1	12.341	30	PASS

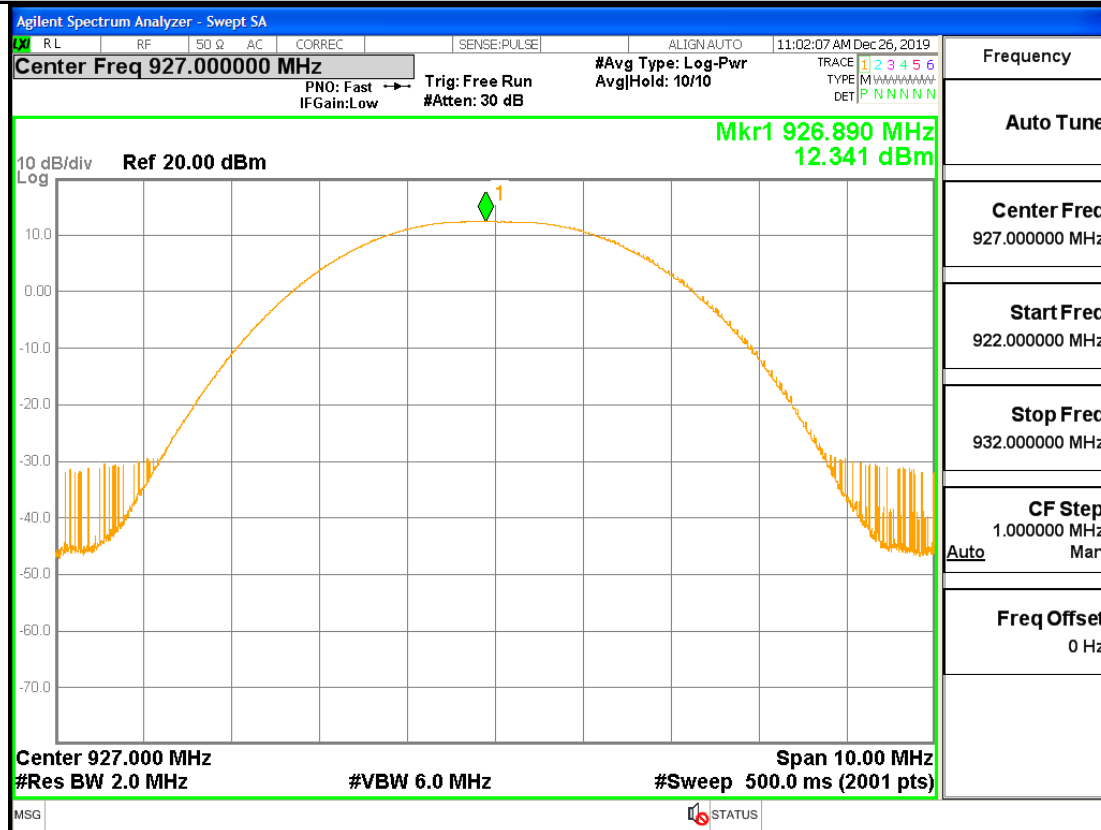
## Maximum peak conducted output power\_LCH\_Ant1



## Maximum peak conducted output power\_MCH\_Ant1



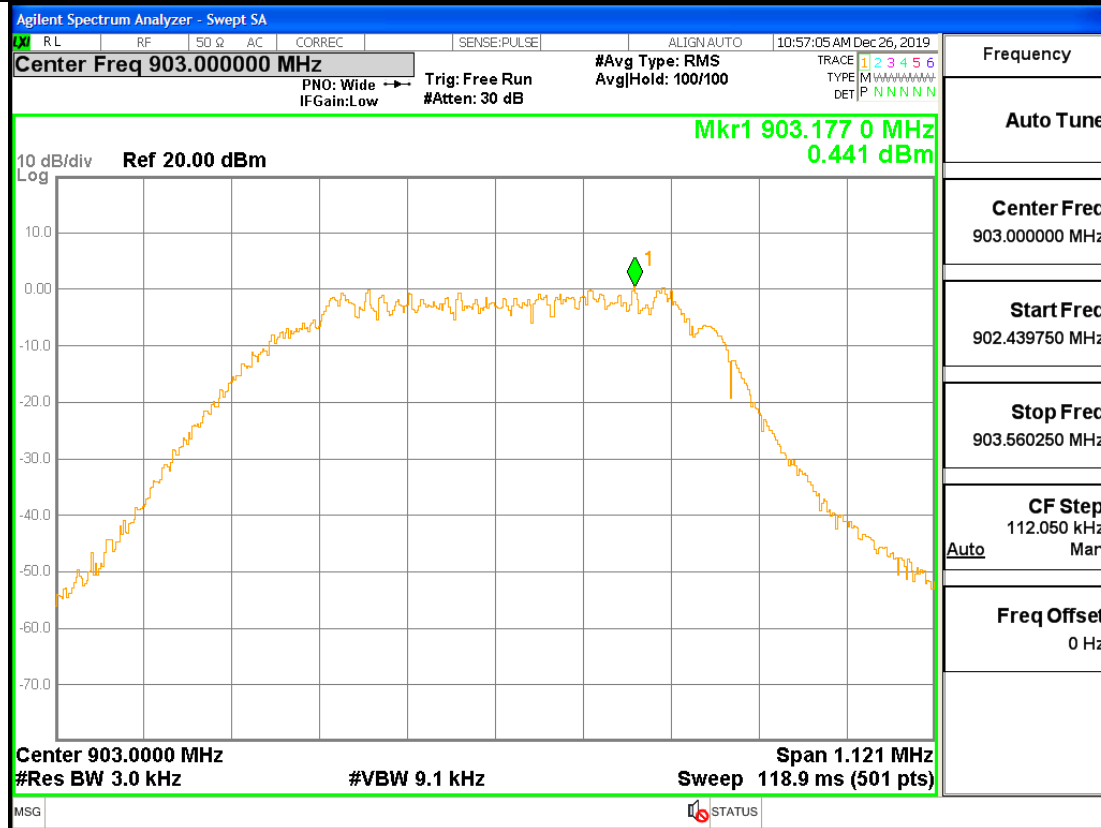
## Maximum peak conducted output power\_HCH\_Ant1



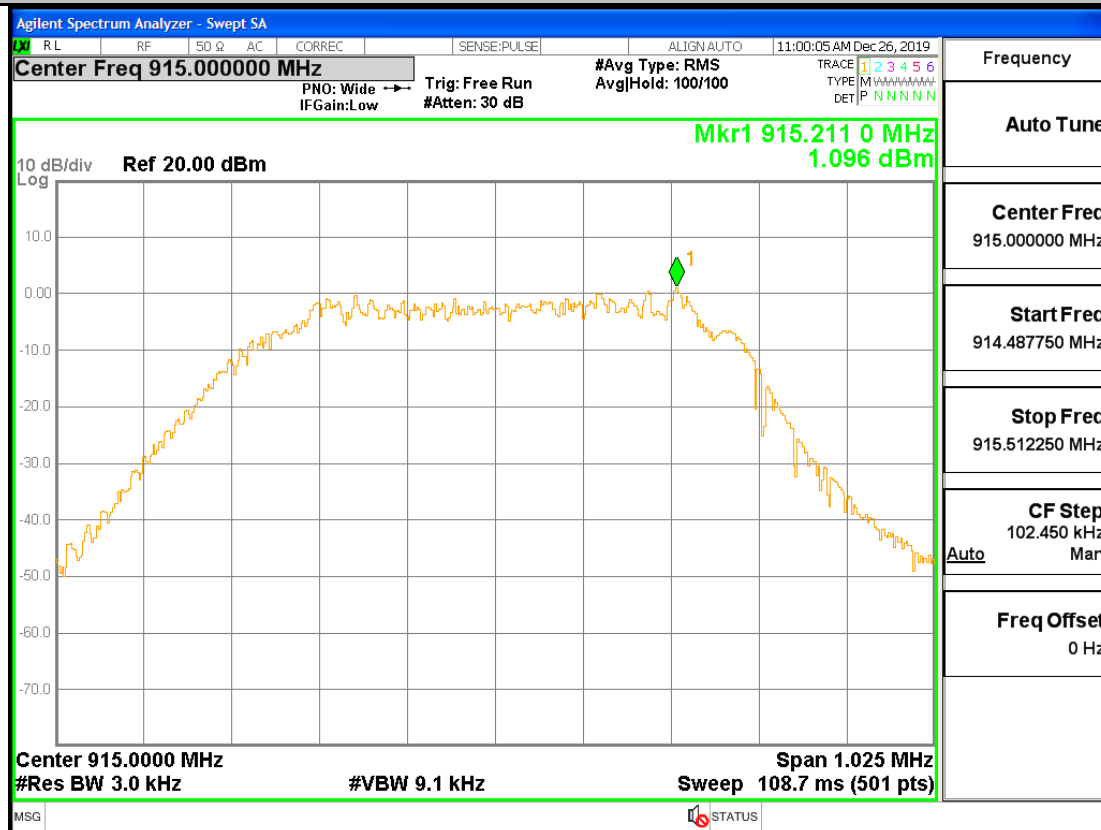
**4.Maximum Peak power spectral density**

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
Lora-DTS	LCH	Ant1	0.441	8.00	PASS
Lora-DTS	MCH	Ant1	1.096	8.00	PASS
Lora-DTS	HCH	Ant1	0.984	8.00	PASS

## Maximum Peak power spectral density\_LCH\_Ant1

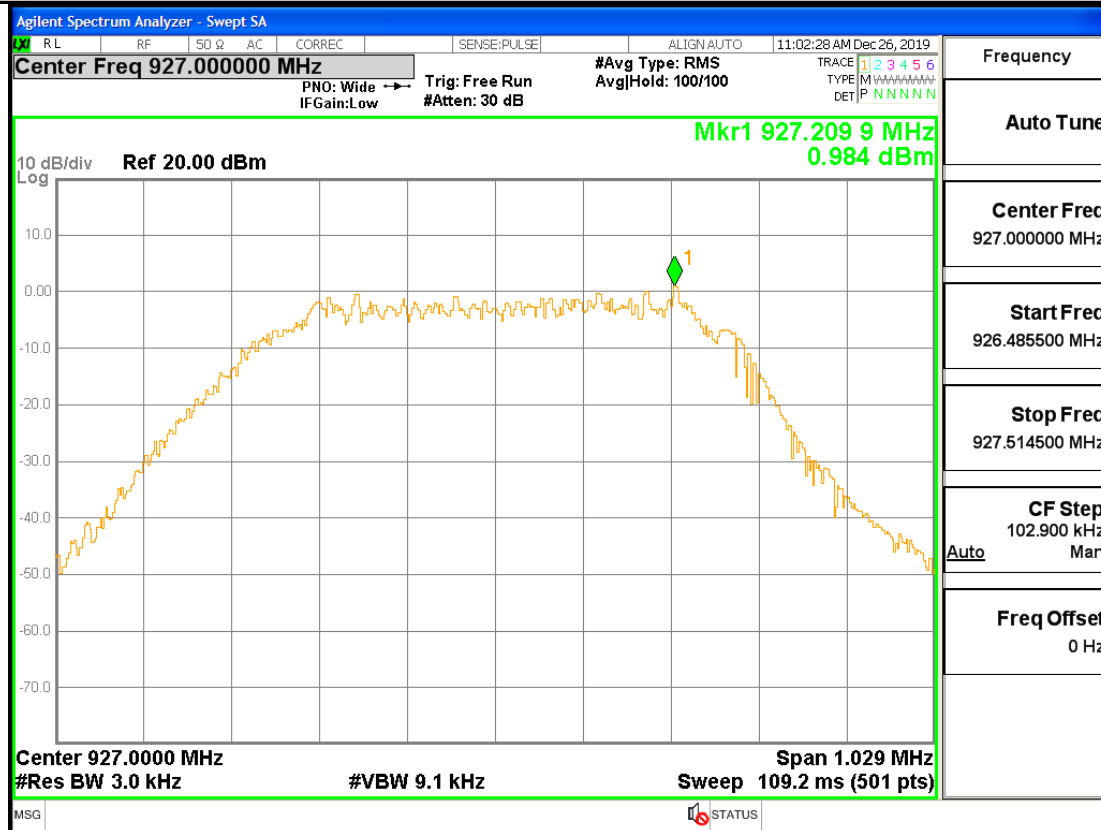


## Maximum Peak power spectral density\_MCH\_Ant1





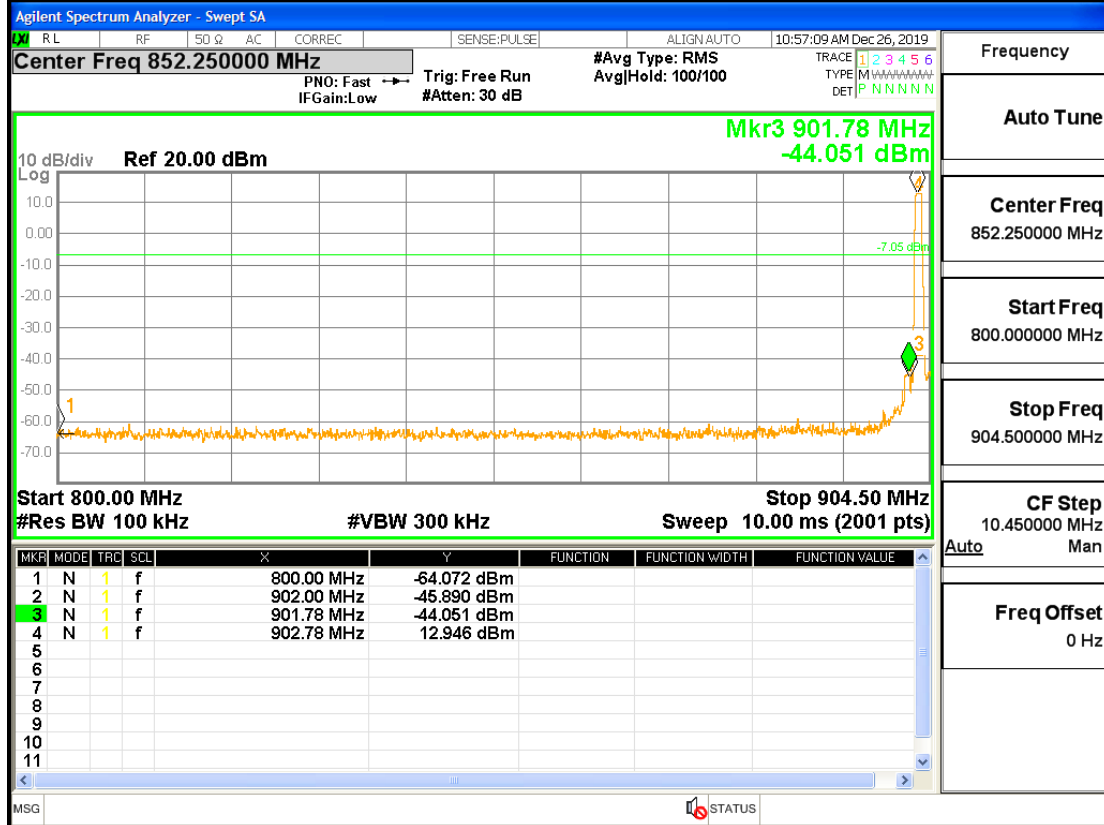
## Maximum Peak power spectral density\_HCH\_Ant1



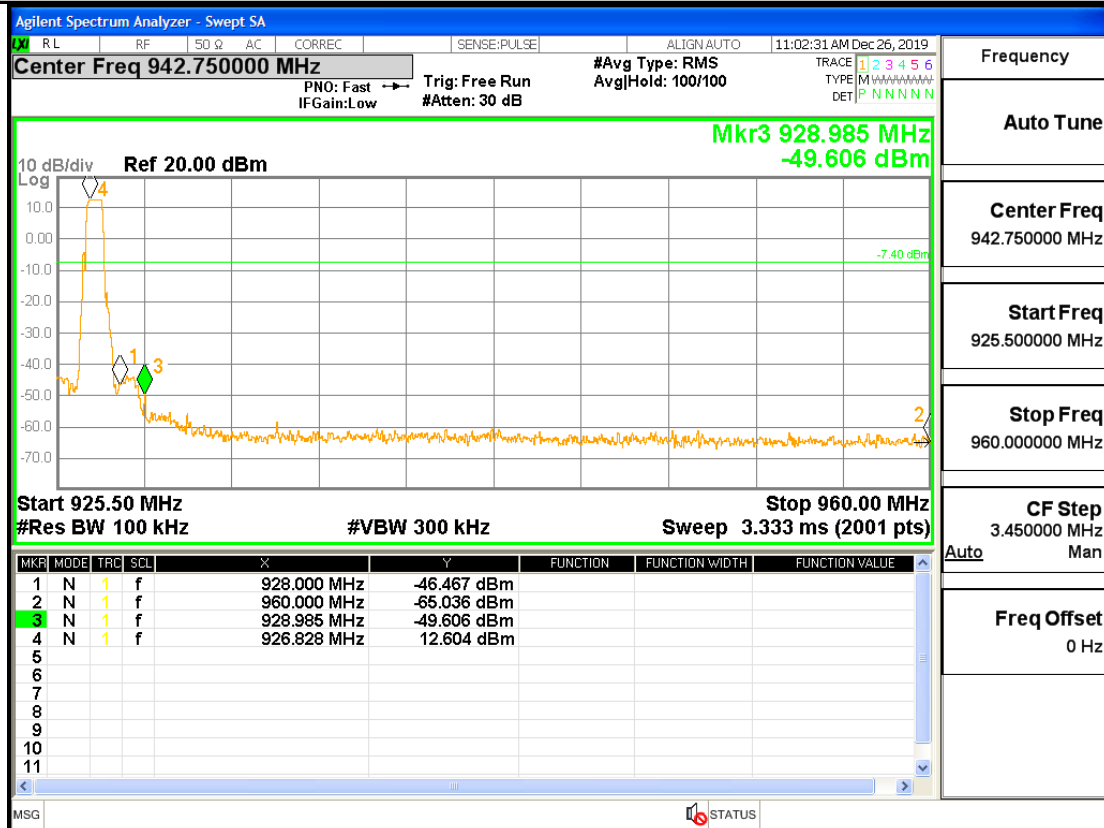
**5.Band-edge for RF Conducted Emissions**

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
Lora-DTS	903	901.783	12.946	-44.051	-7.054	Pass
Lora-DTS	927	928	12.604	-46.47	-7.396	Pass

## Band-edge for RF Conducted Emissions\_LCH\_Ant1

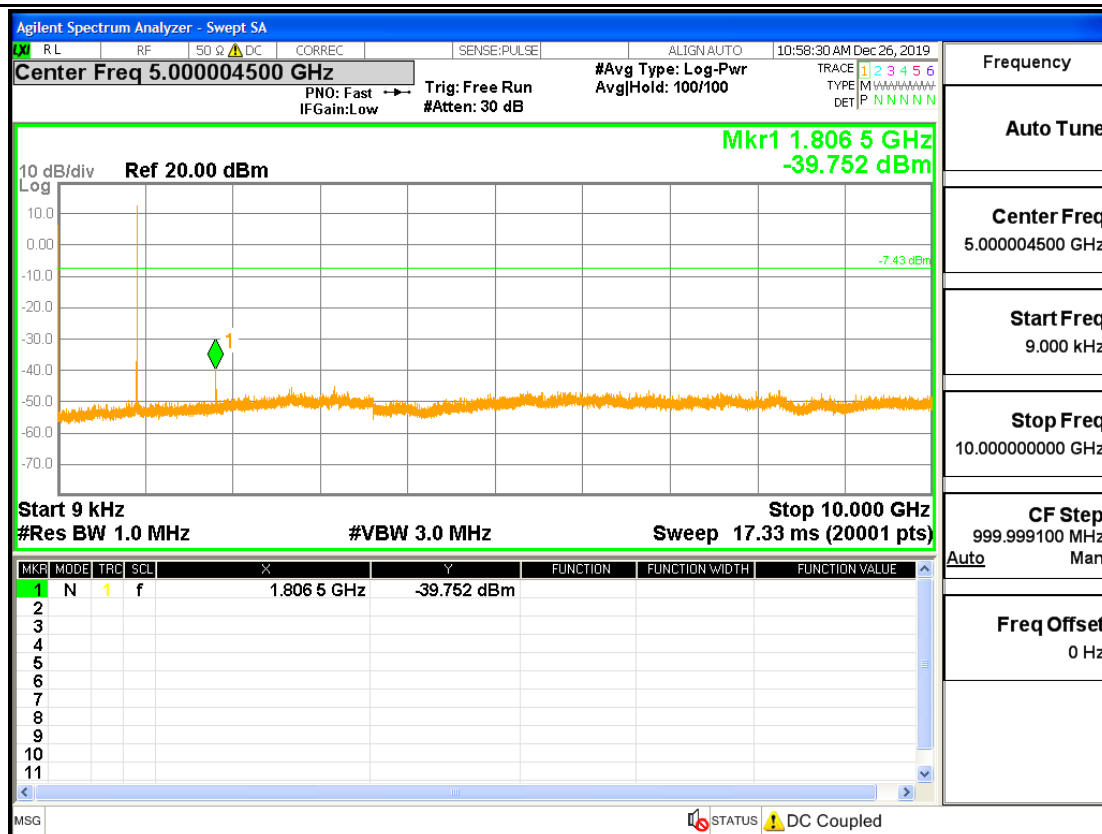
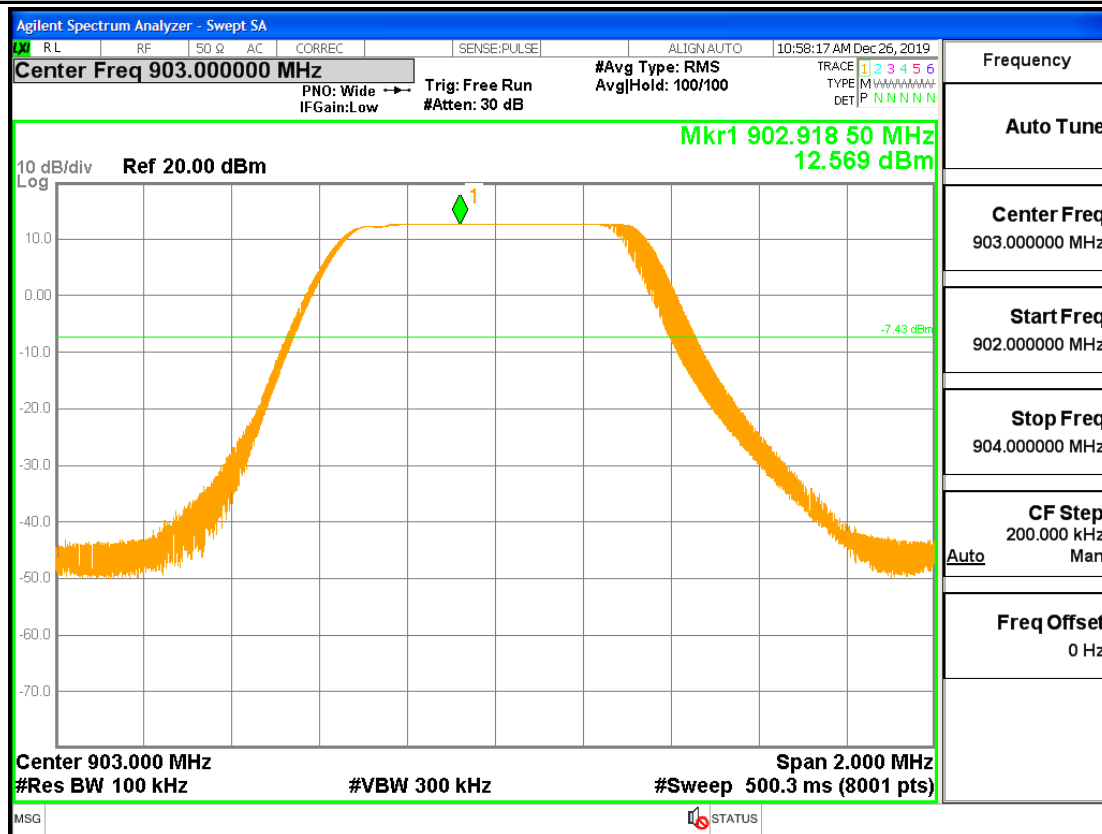


## Band-edge for RF Conducted Emissions\_HCH\_Ant1

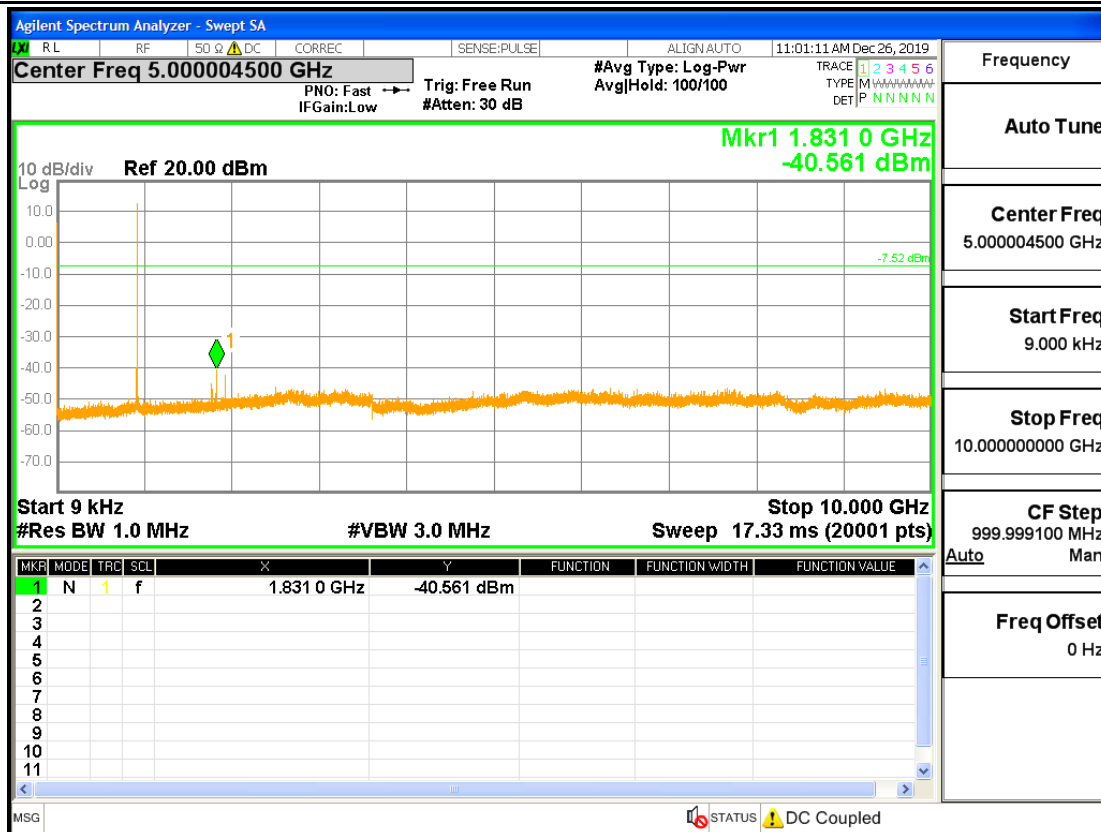
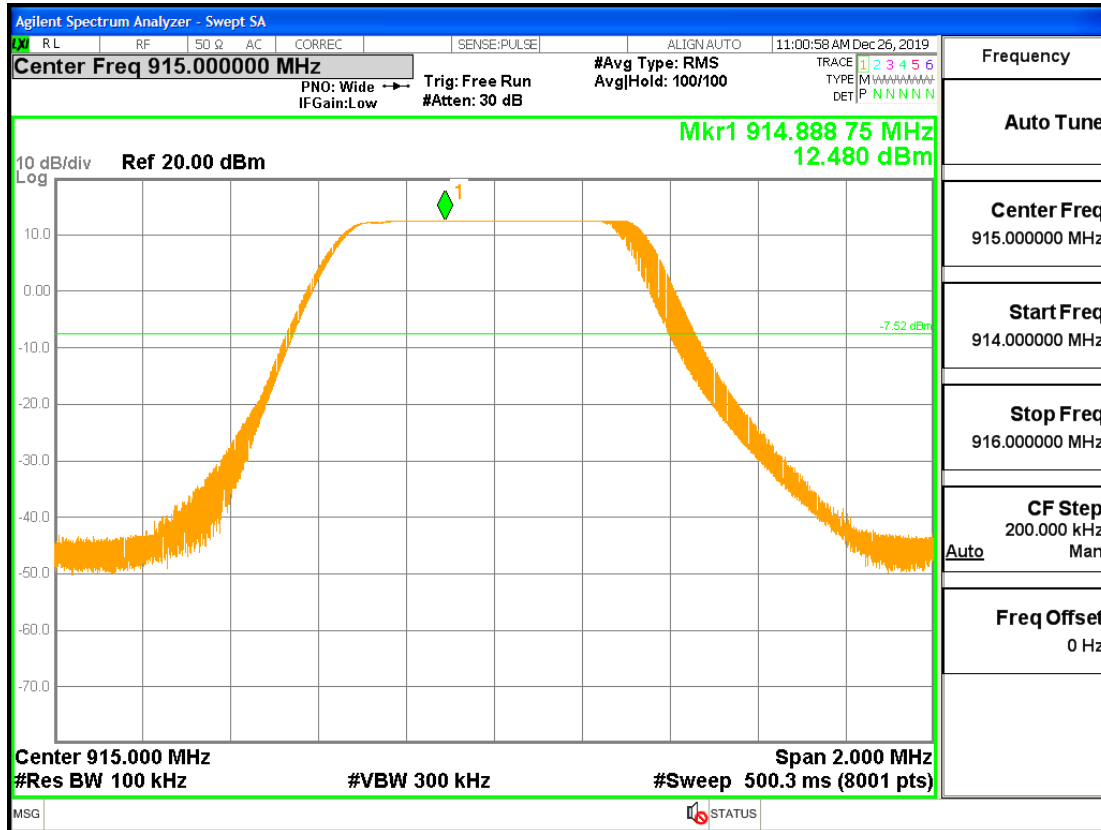


## 6.RF Conducted Spurious Emissions

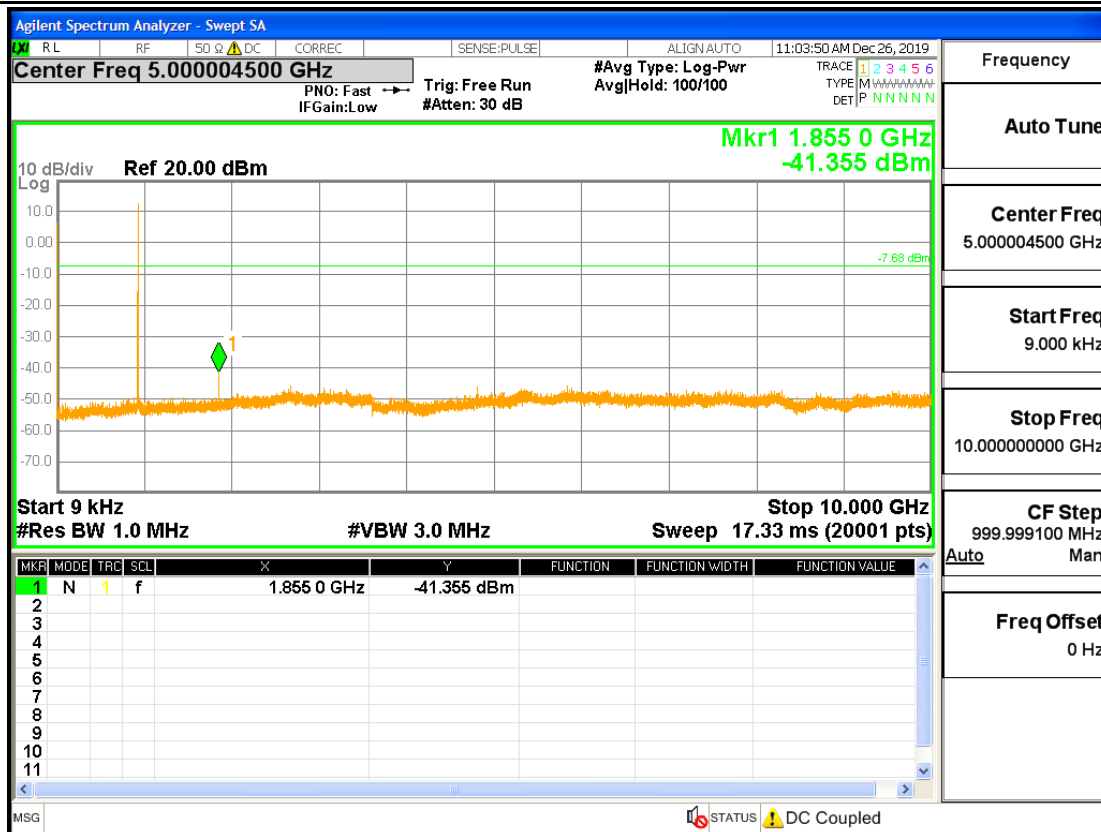
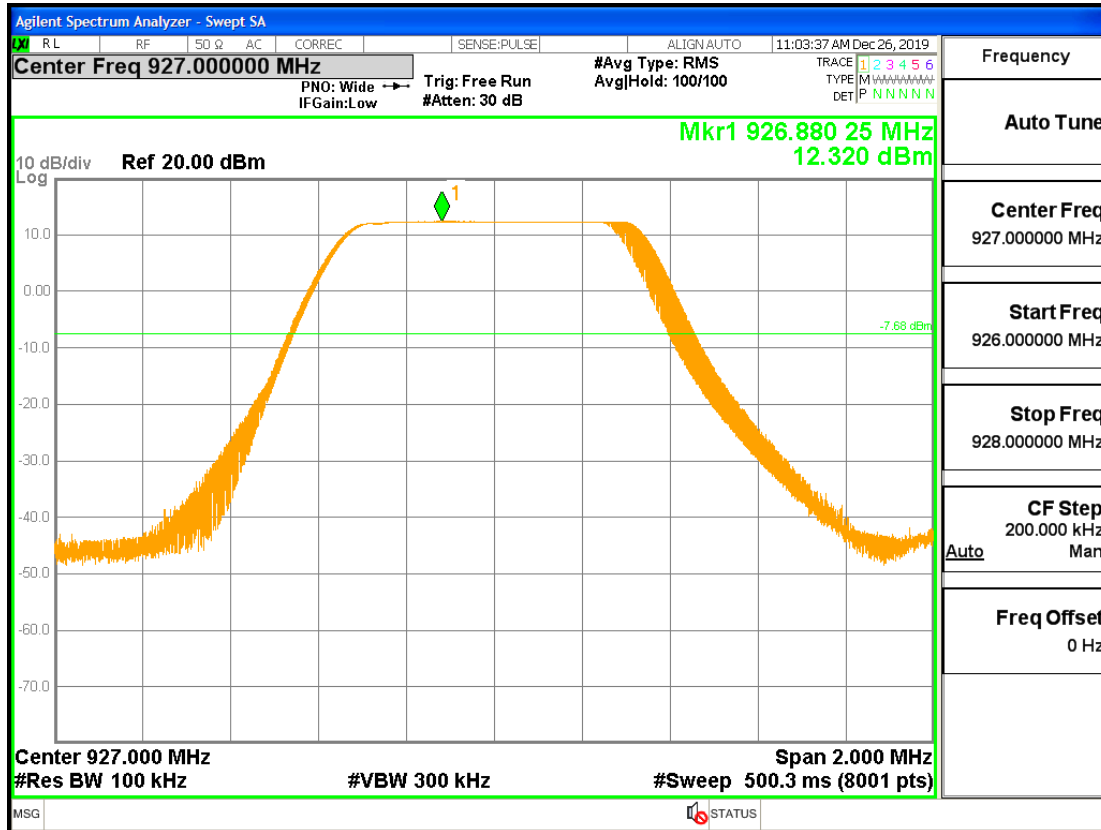
## RF Conducted Spurious Emissions\_LCH\_Ant1



## RF Conducted Spurious Emissions\_MCH\_Ant1



## RF Conducted Spurious Emissions\_HCH\_Ant1



## 8.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	915	Ant1	60.33	PASS

