

## Appendix A

### RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: Bluetooth serial port module

Trade Mark: HC

Test Model: HC-08

FCC ID: 2AEJQHC-08

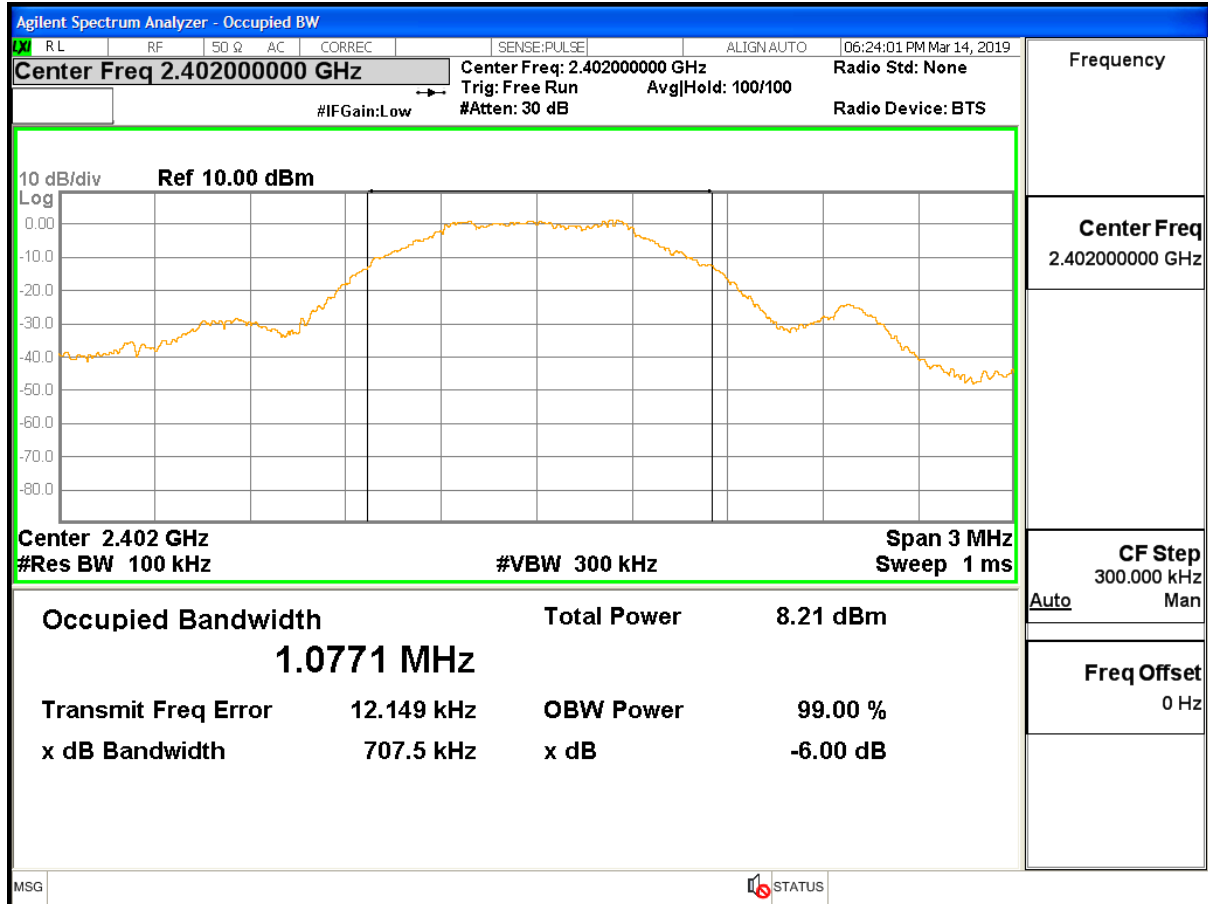
### Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

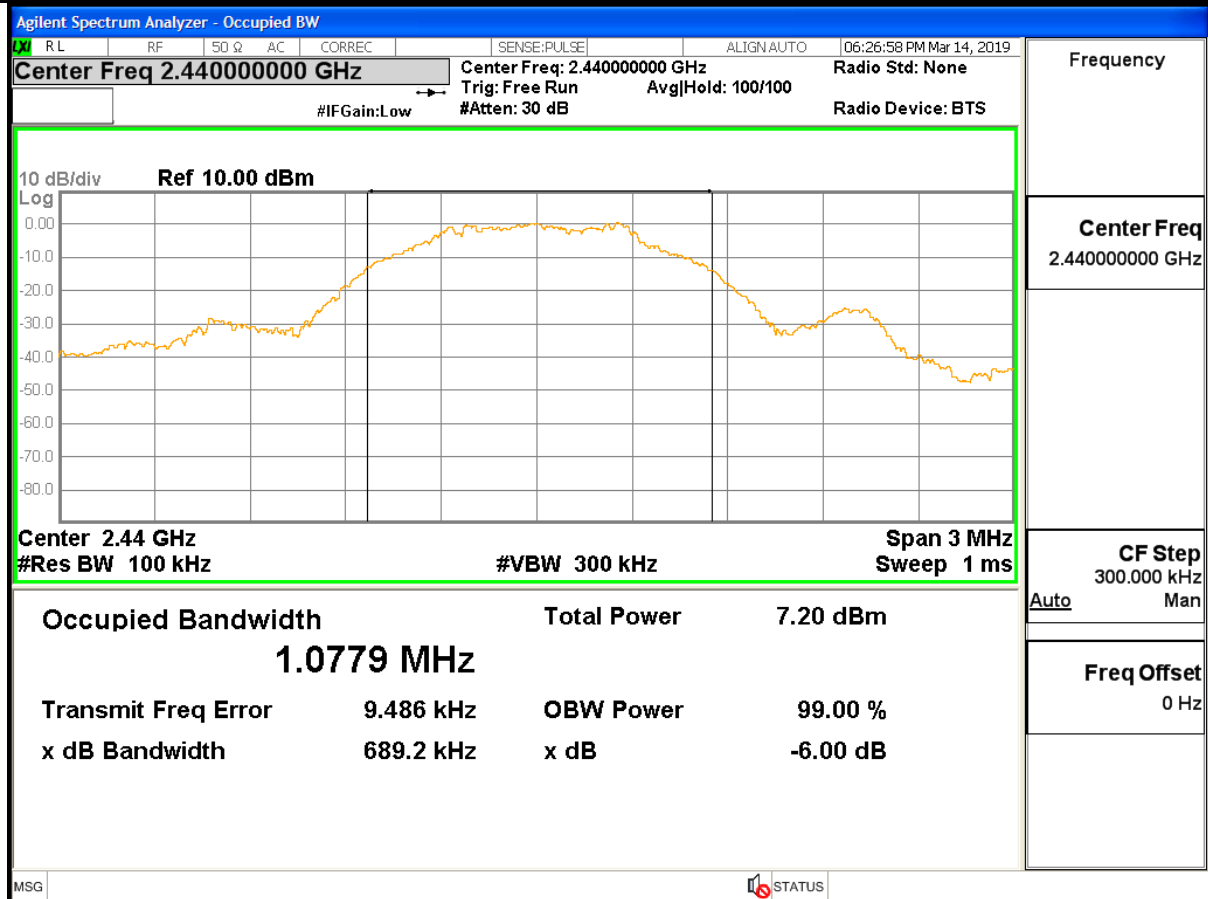
#### 1.6dB Bandwidth

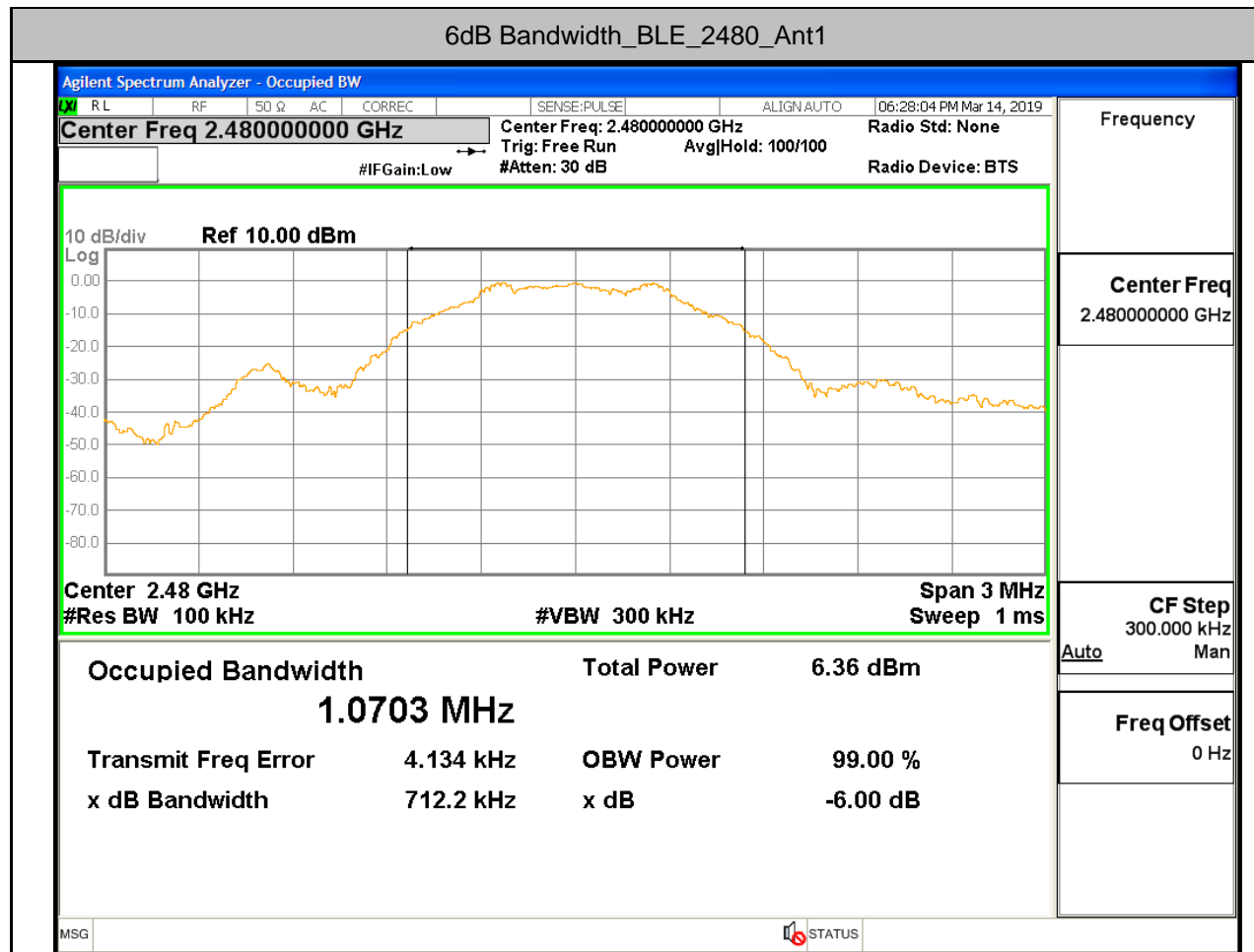
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.708	0.5	PASS
BLE	2440	Ant1	0.689	0.5	PASS
BLE	2480	Ant1	0.712	0.5	PASS

## 6dB Bandwidth\_BLE\_2402\_Ant1



## 6dB Bandwidth\_BLE\_2440\_Ant1





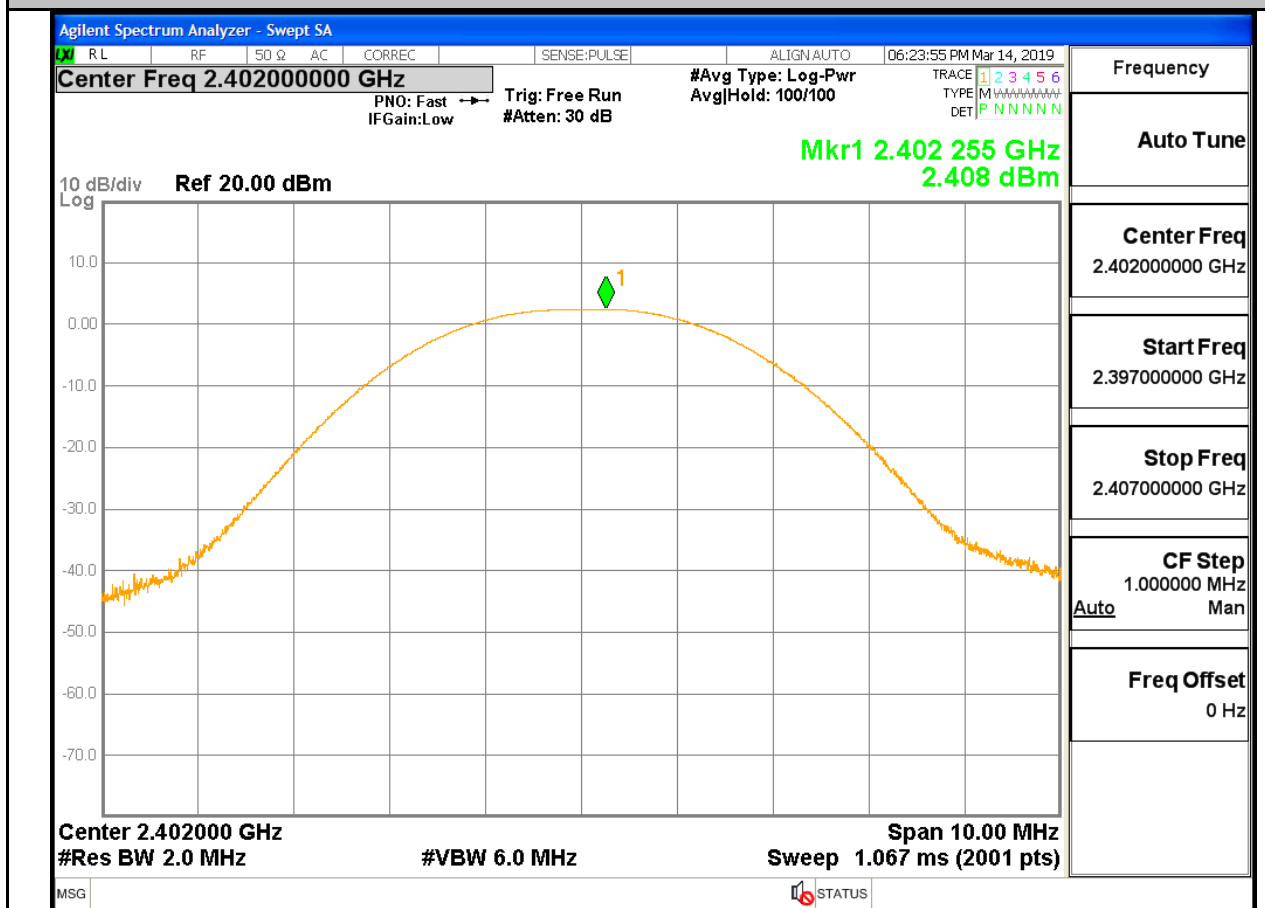
**2.Occupied Bandwidth**

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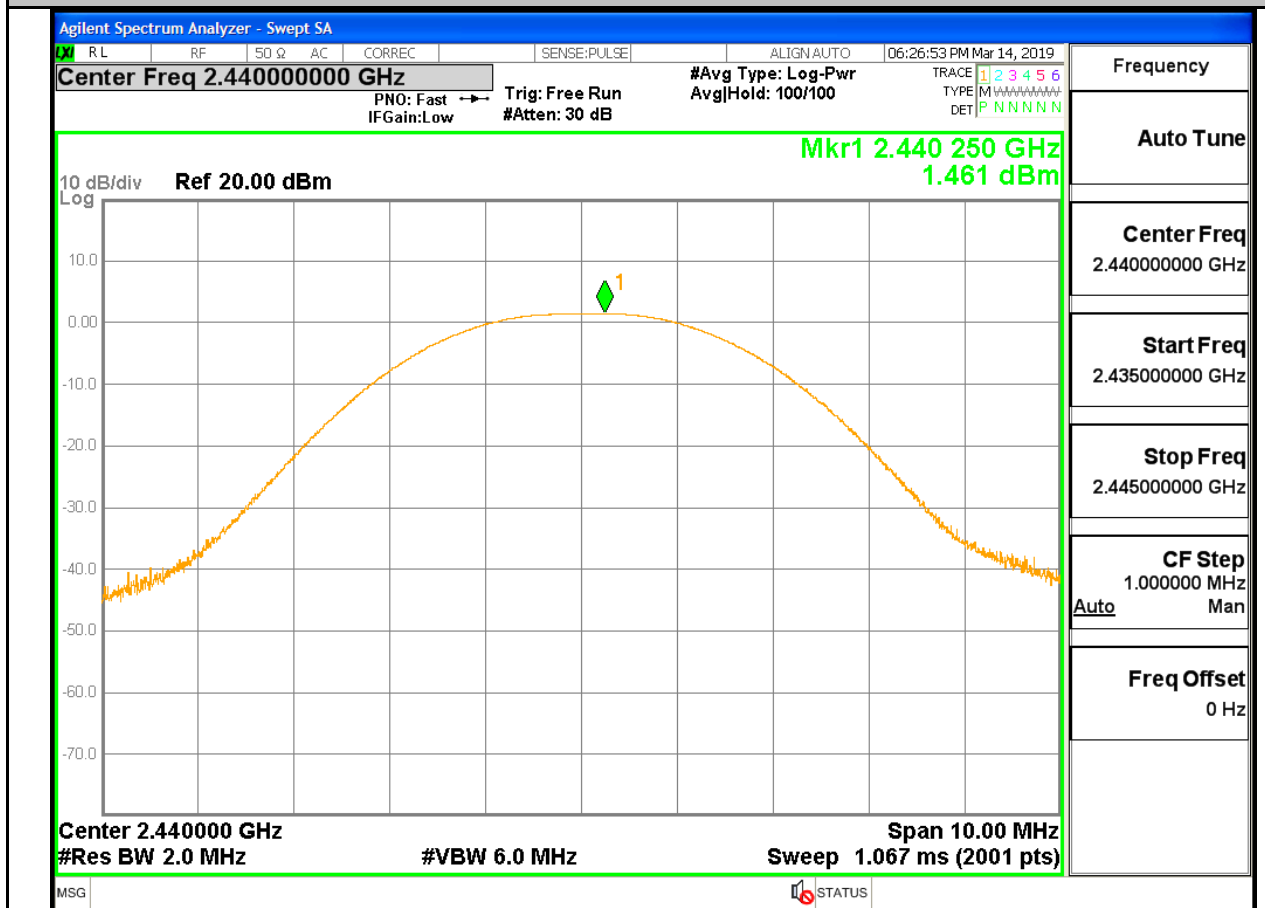
**3.Maximum peak conducted output power**

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	2.408	30	PASS
BLE	2440	Ant1	1.461	30	PASS
BLE	2480	Ant1	0.517	30	PASS

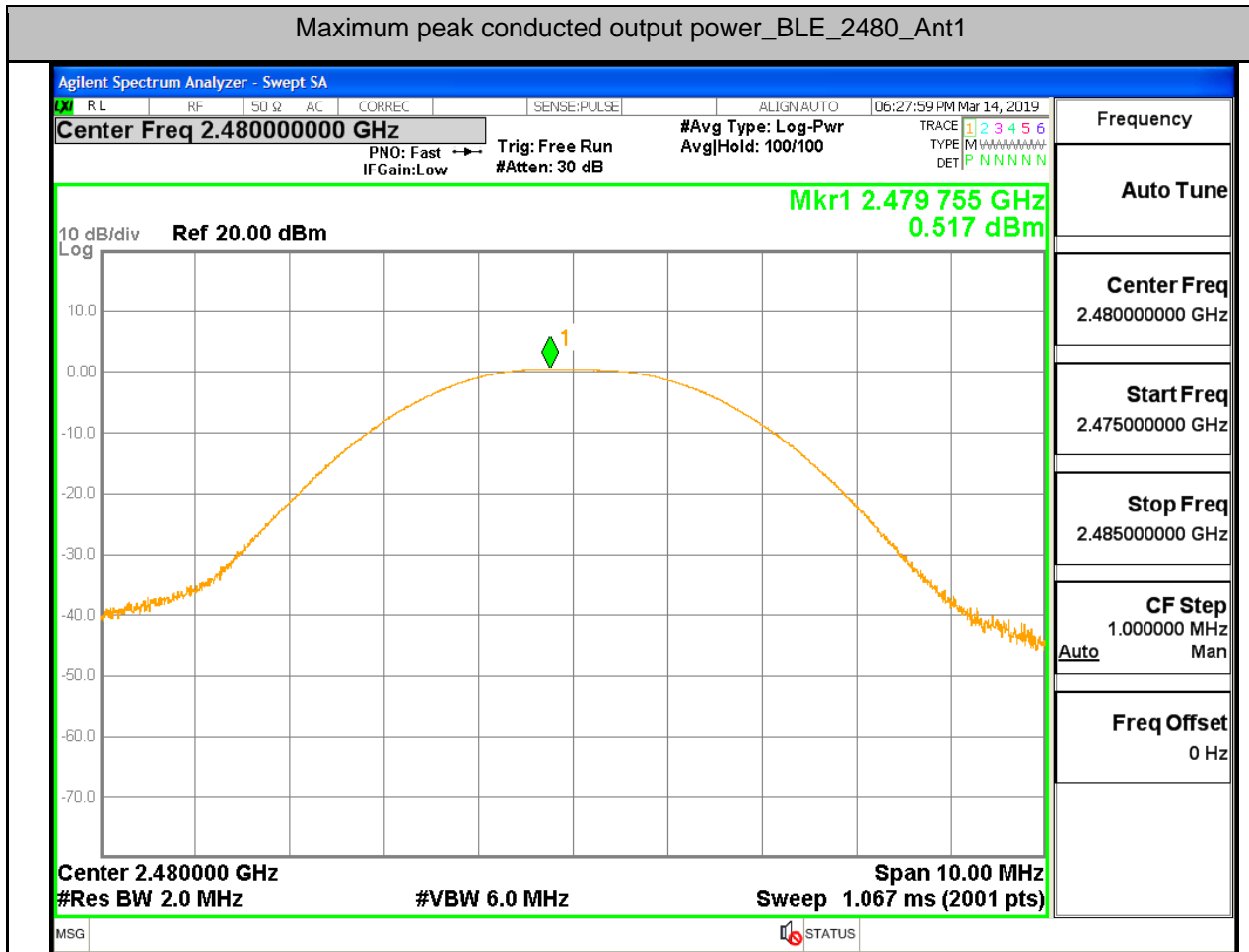
## Maximum peak conducted output power\_BLE\_2402\_Ant1



## Maximum peak conducted output power\_BLE\_2440\_Ant1

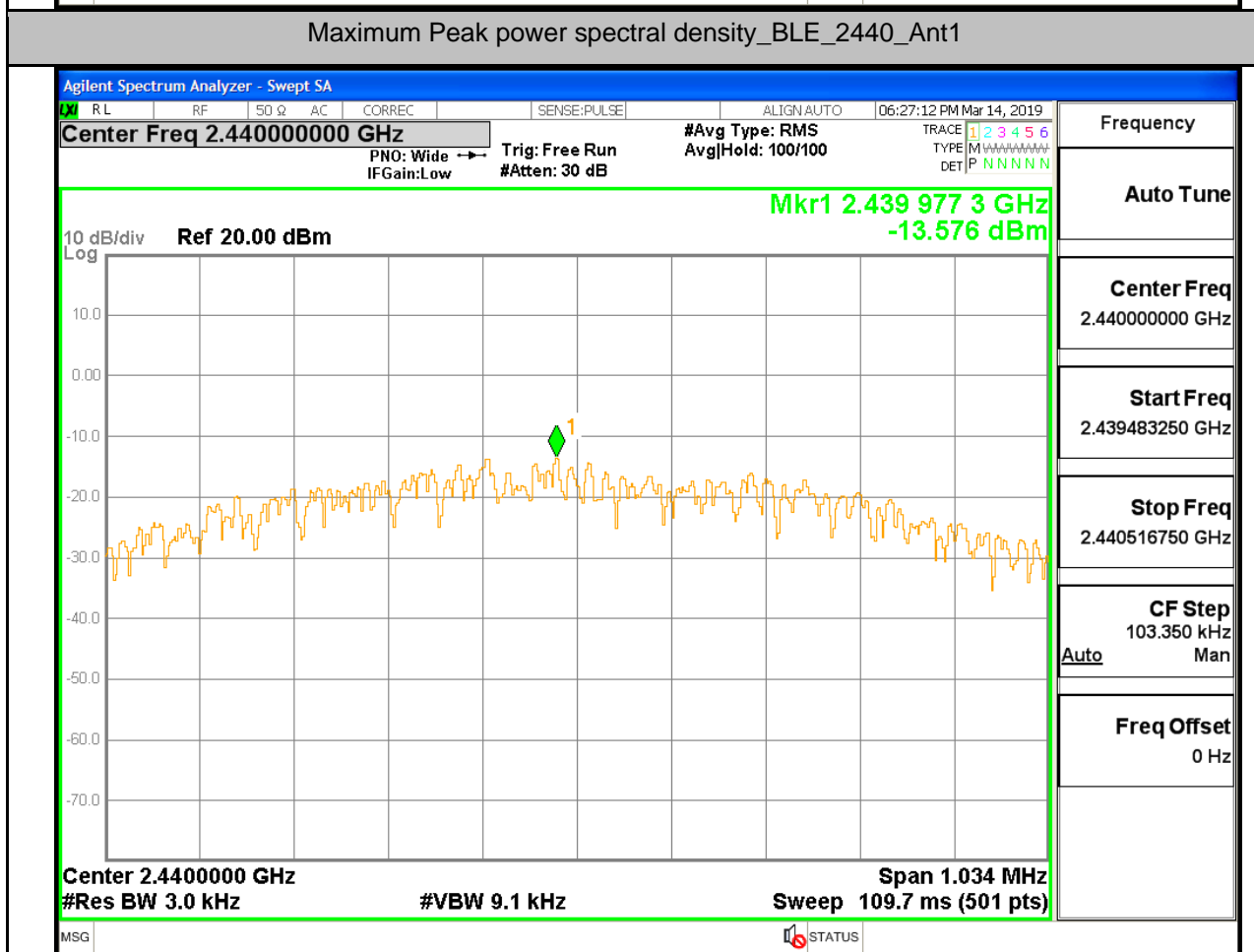


## Maximum peak conducted output power\_BLE\_2480\_Ant1



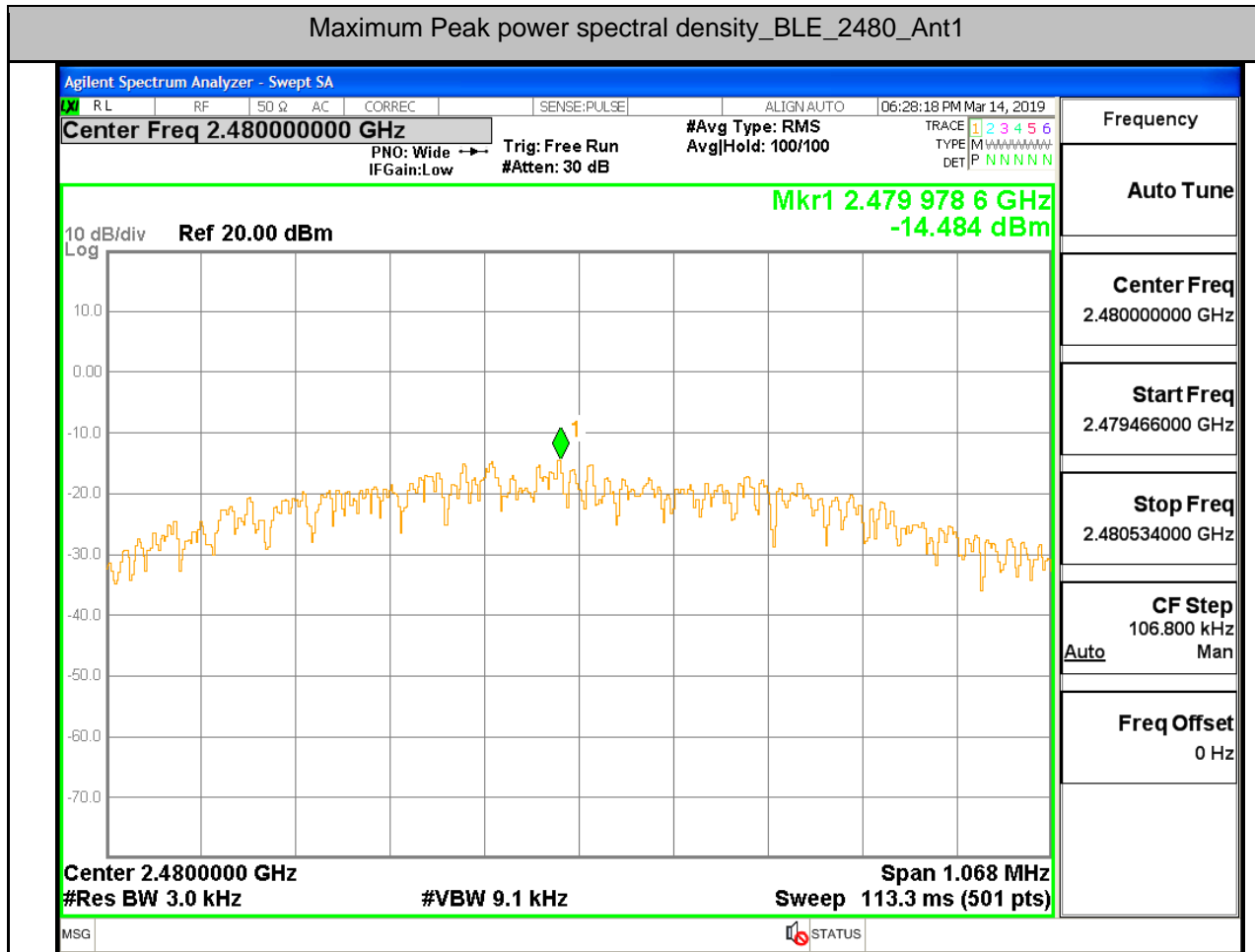
**4.Maximum Peak power spectral density**

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-12.797	8.00	PASS
BLE	2440	Ant1	-13.576	8.00	PASS
BLE	2480	Ant1	-14.484	8.00	PASS





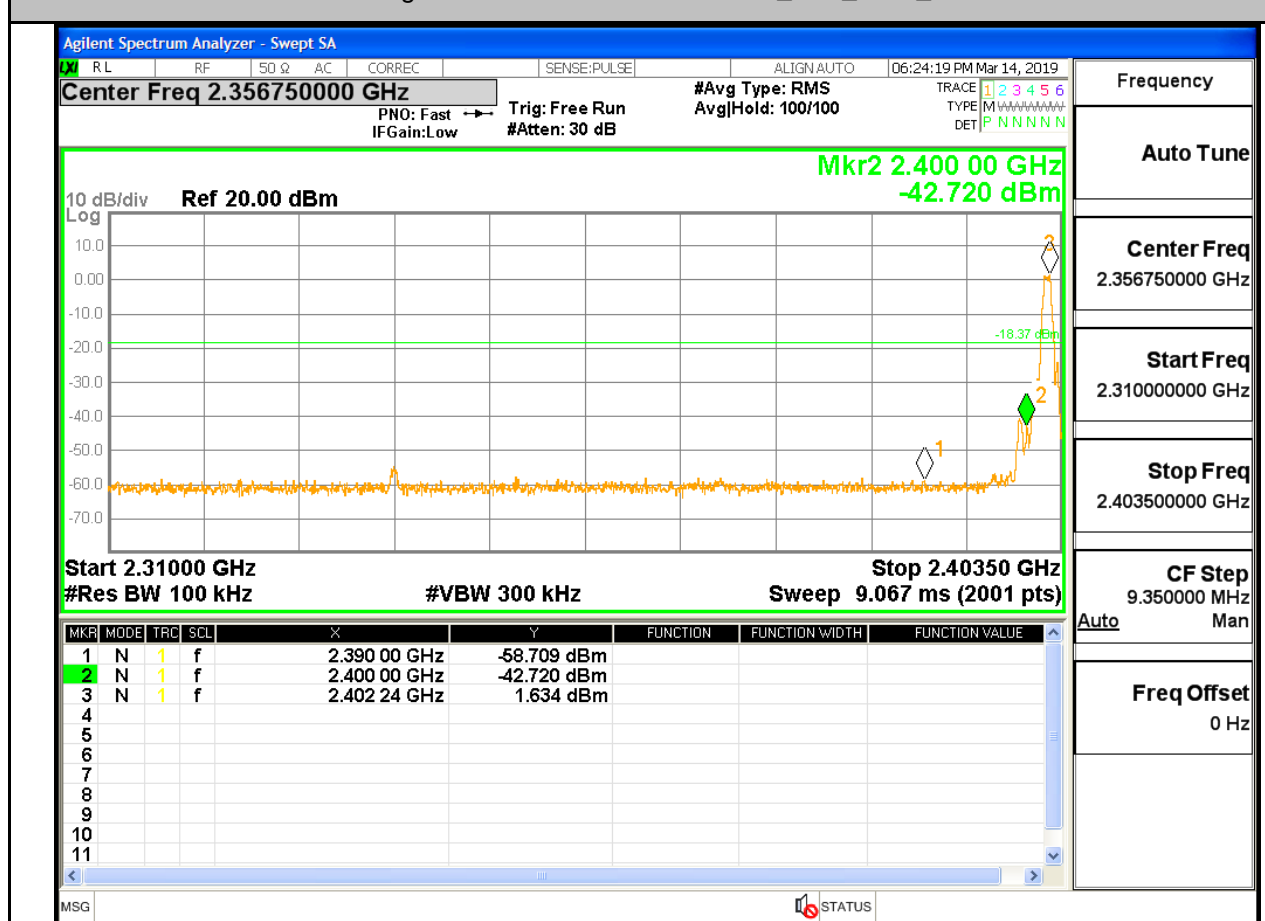
## Maximum Peak power spectral density\_BLE\_2480\_Ant1



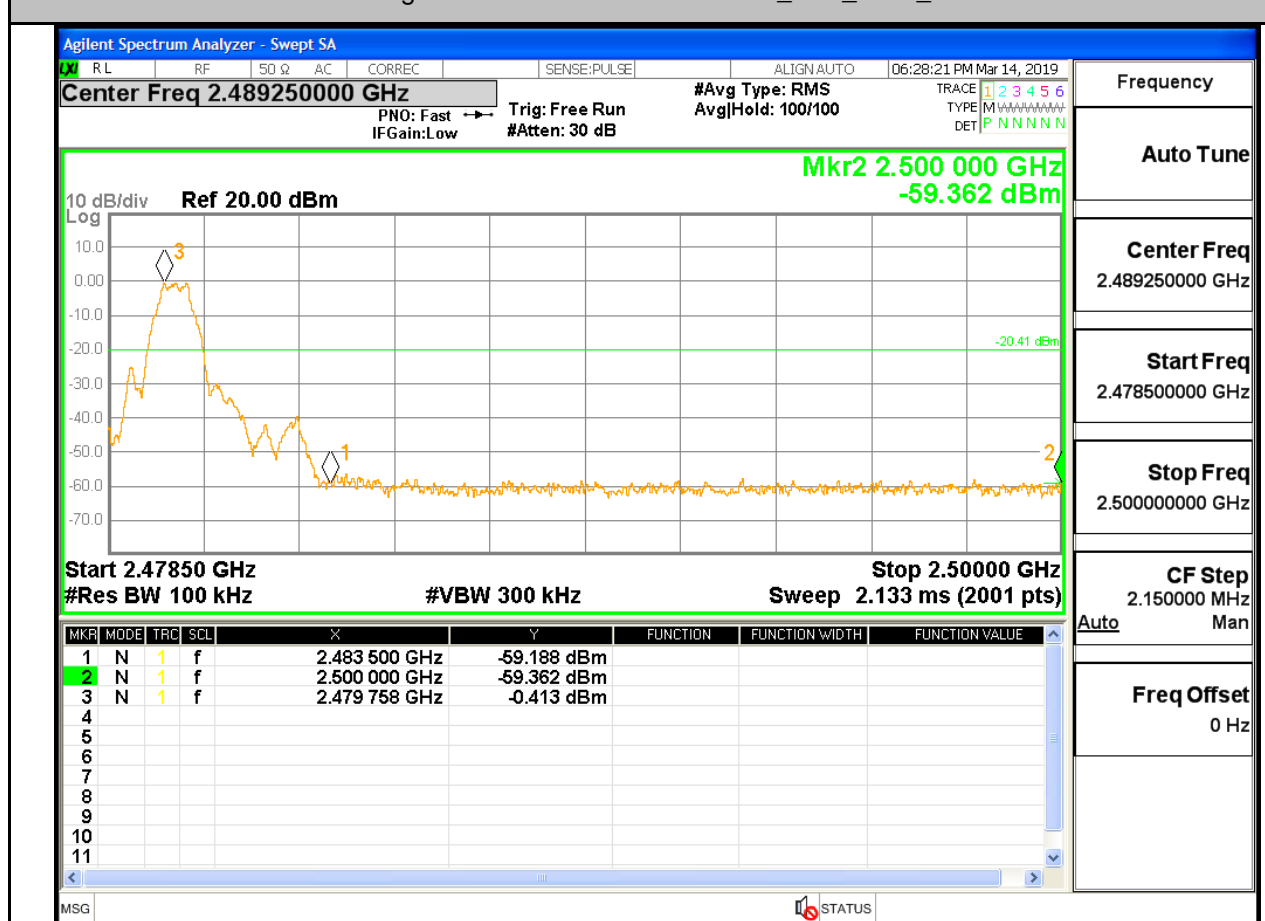
**5.Band-edge for RF Conducted Emissions**

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2390	1.63	-58.71	-18.37	Pass
BLE	2402	2400	1.63	-42.72	-18.37	Pass
BLE	2480	2483.5	-0.41	-59.19	-20.41	Pass
BLE	2480	2500	-0.41	-59.36	-20.41	Pass

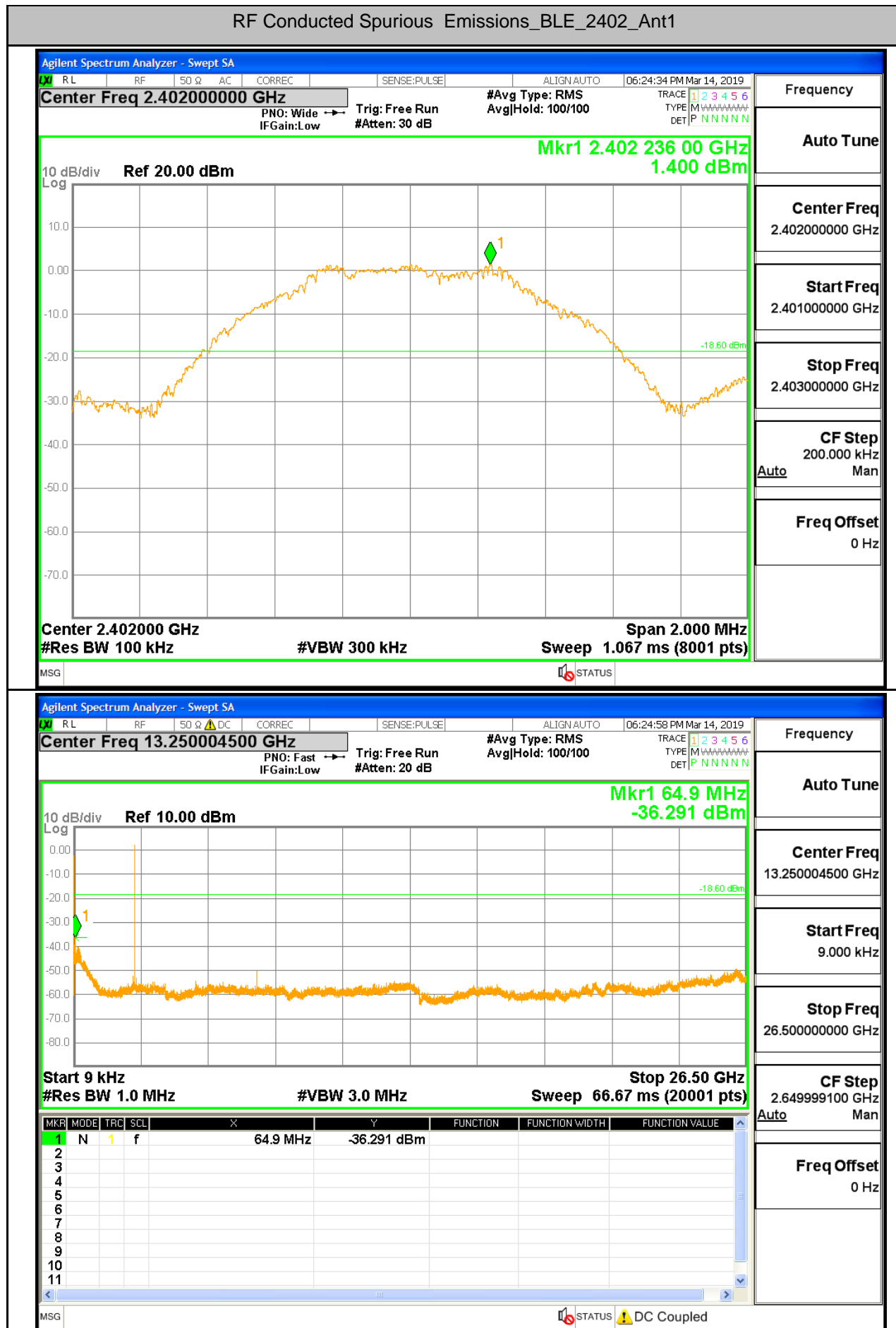
## Band-edge for RF Conducted Emissions\_BLE\_2402\_Ant1



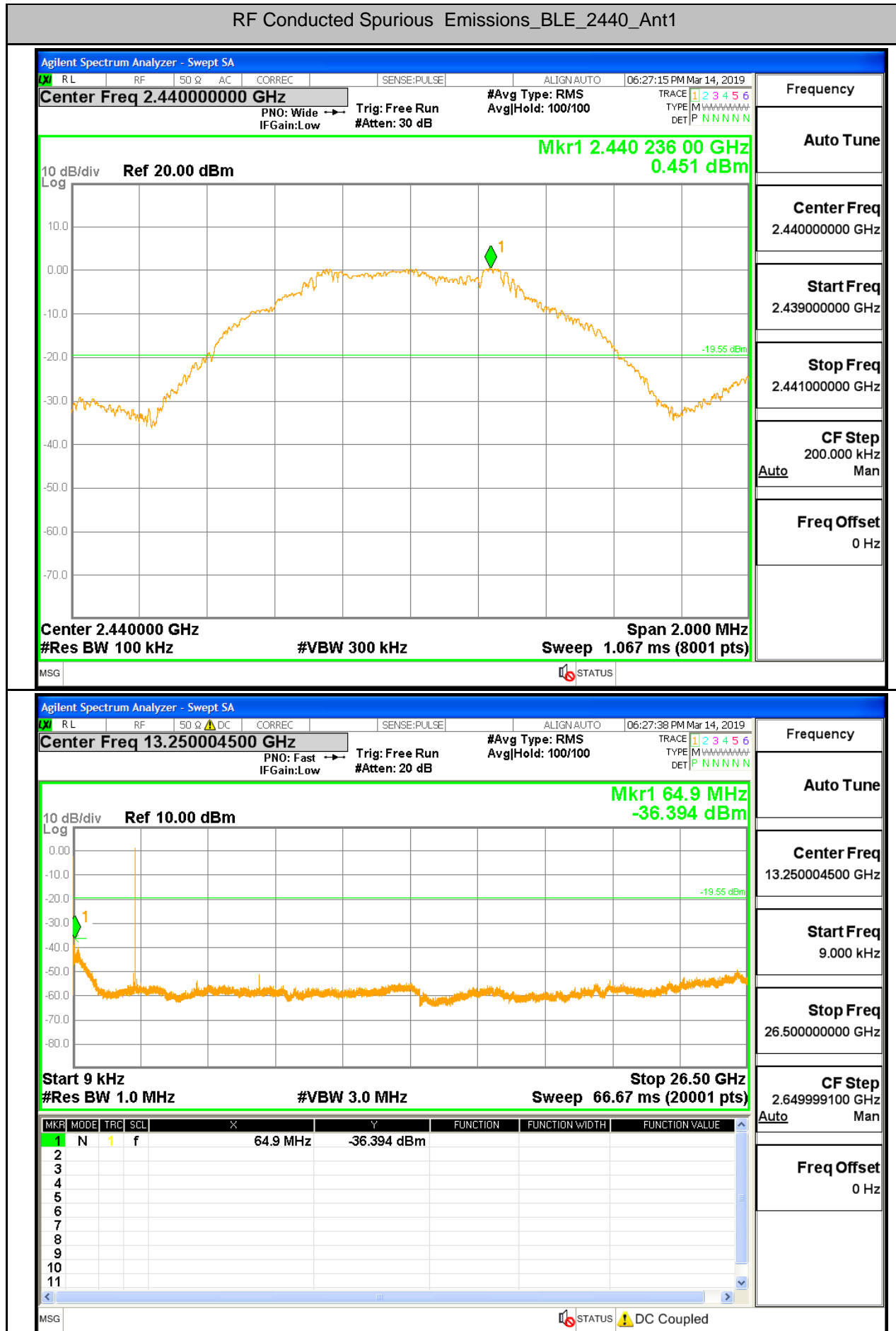
## Band-edge for RF Conducted Emissions\_BLE\_2480\_Ant1



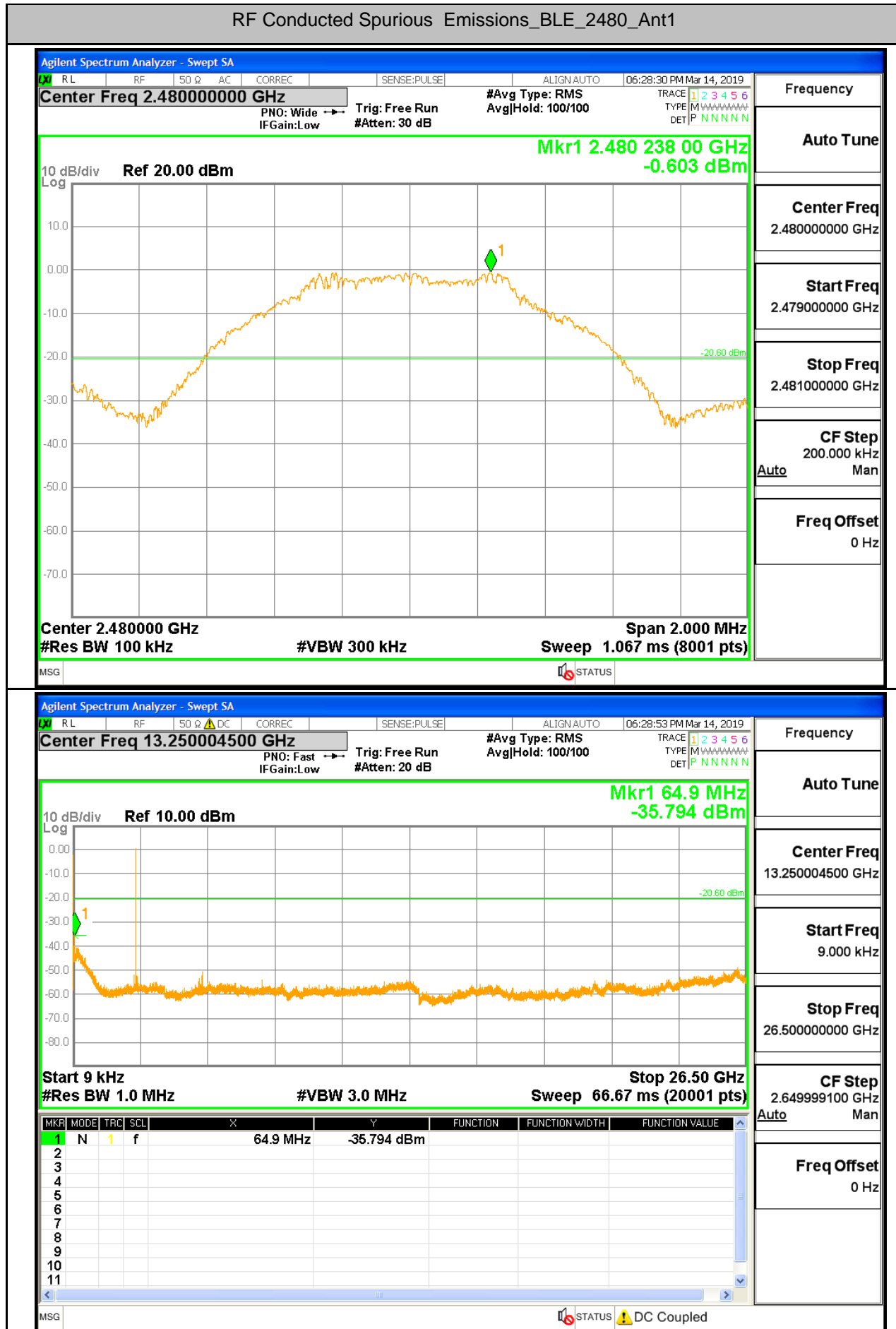
## 6.RF Conducted Spurious Emissions



## RF Conducted Spurious Emissions\_BLE\_2440\_Ant1



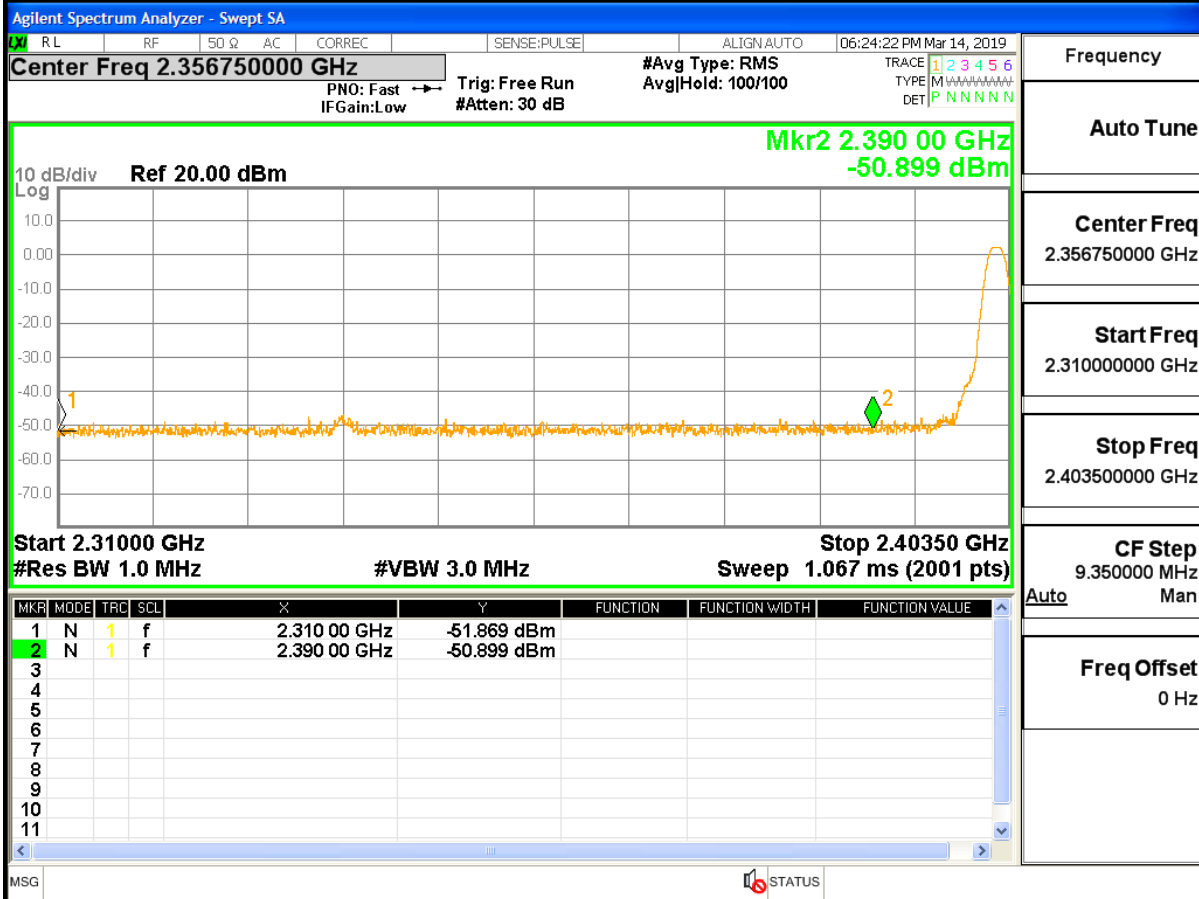
## RF Conducted Spurious Emissions\_BLE\_2480\_Ant1



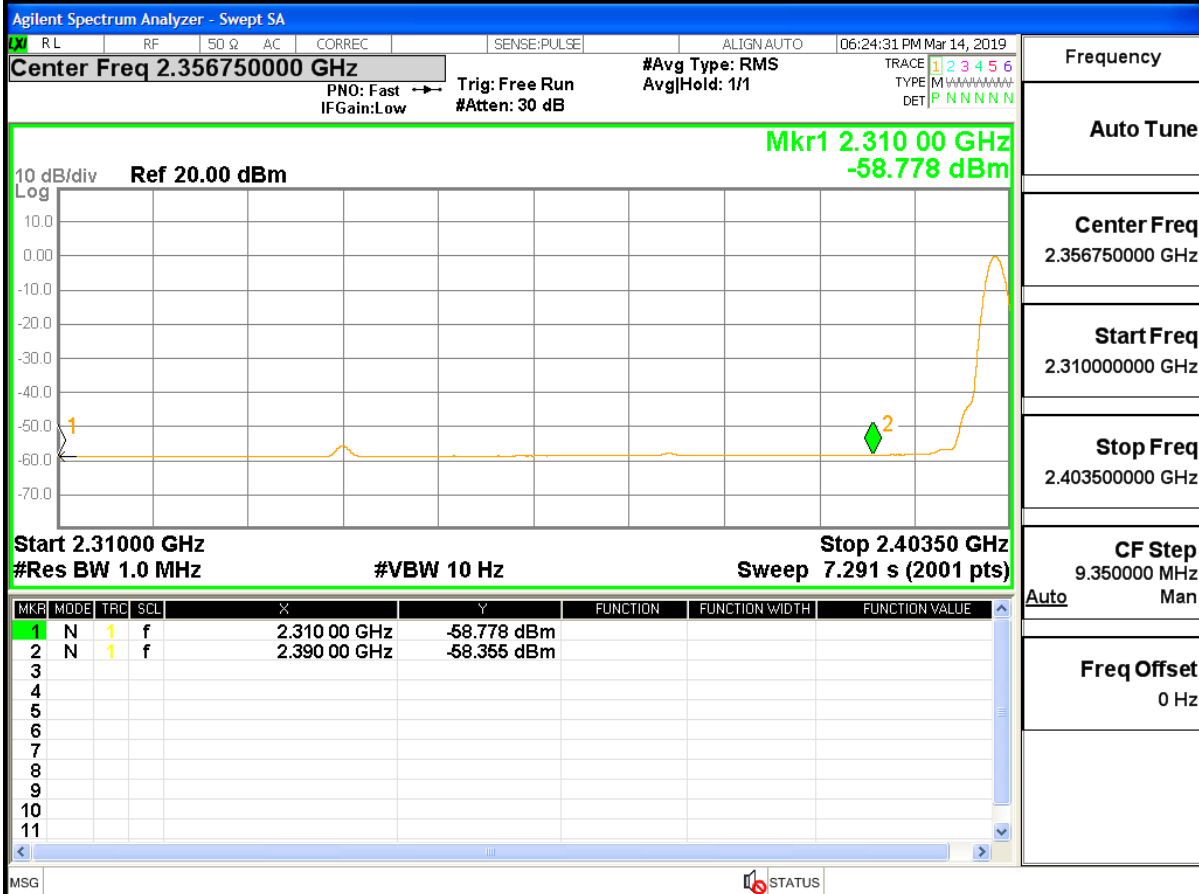
**7.Restrict-band band-edge measurements**

Type	Carrier Frequency (MHz)	Frequency (MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2310	2.00	0.00	-51.87	45.33	74	-58.78	38.42	54	Pass
1DH5	2402	2390	2.00	0.00	-50.9	46.3	74	-58.36	38.84	54	Pass
1DH5	2480	2483.5	2.00	0.00	-42.85	54.35	74	-49.44	47.76	54	Pass
1DH5	2480	2500	2.00	0.00	-50.31	46.89	74	-57.96	39.24	54	Pass

## Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_PEAK

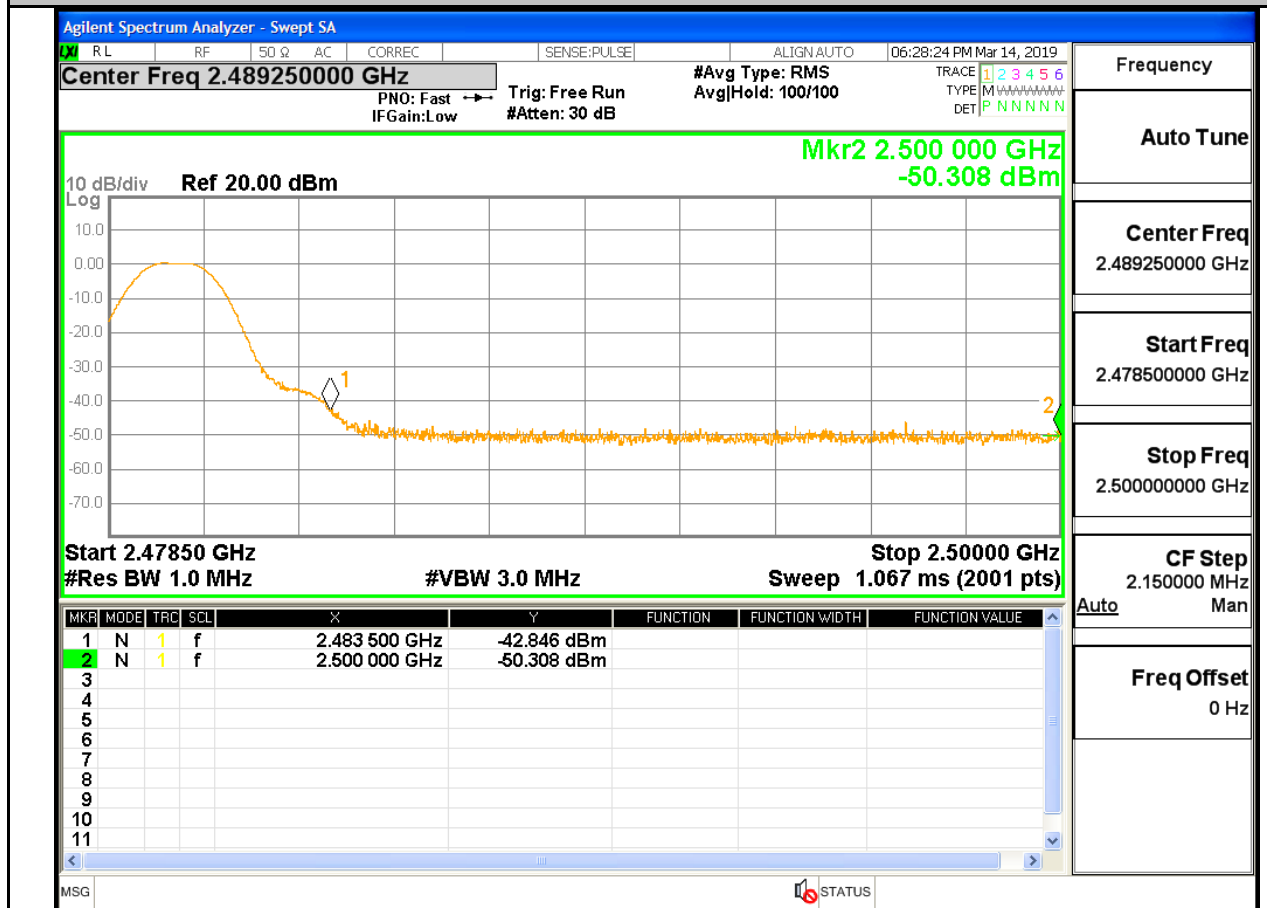


## Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_AV

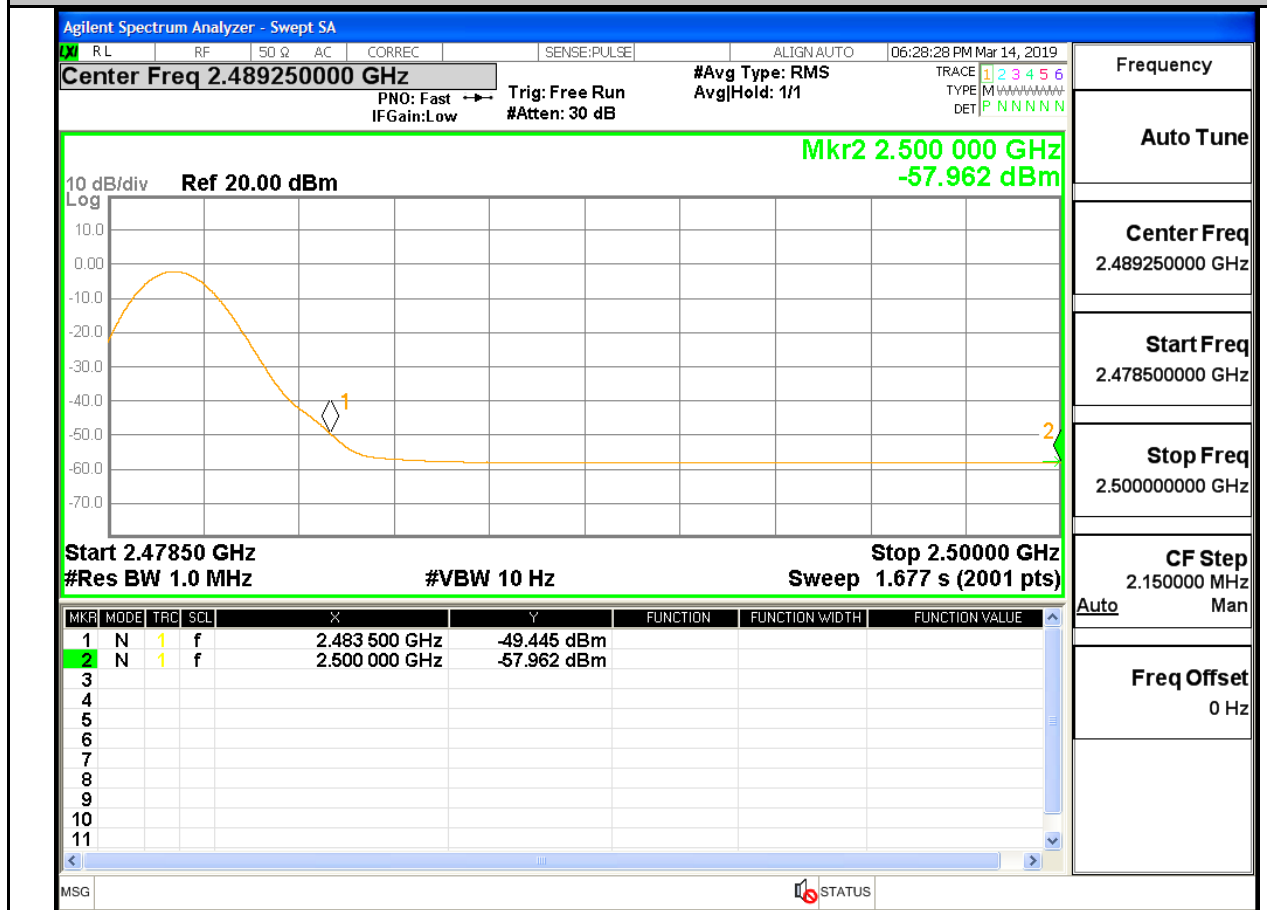




## Restrict-band band-edge measurements\_BLE\_2480\_Ant1\_PEAK



## Restrict-band band-edge measurements\_BLE\_2480\_Ant1\_AV



## 8.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	62.57	PASS

