

## Appendix A

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

Product Name: Shenzhen SEI Robotics Co., Ltd.

Trade Mark: eSTREAM4K

Test Model: SN8BABB

FCC ID: 2AOVU-SN8BAXX

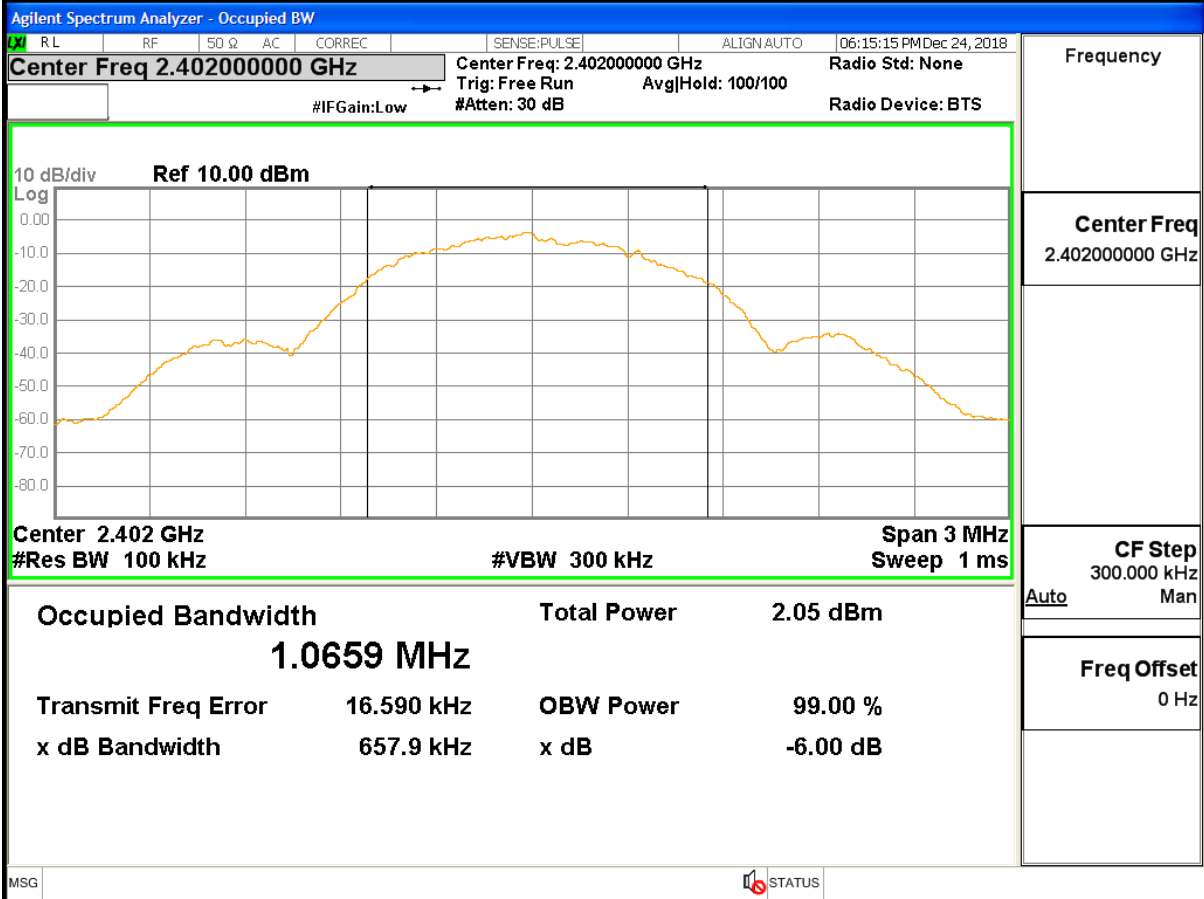
### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.7° C   |
| Relative Humidity: | 60%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Gary Qian |
| Supervised by:     | Eden Hu   |

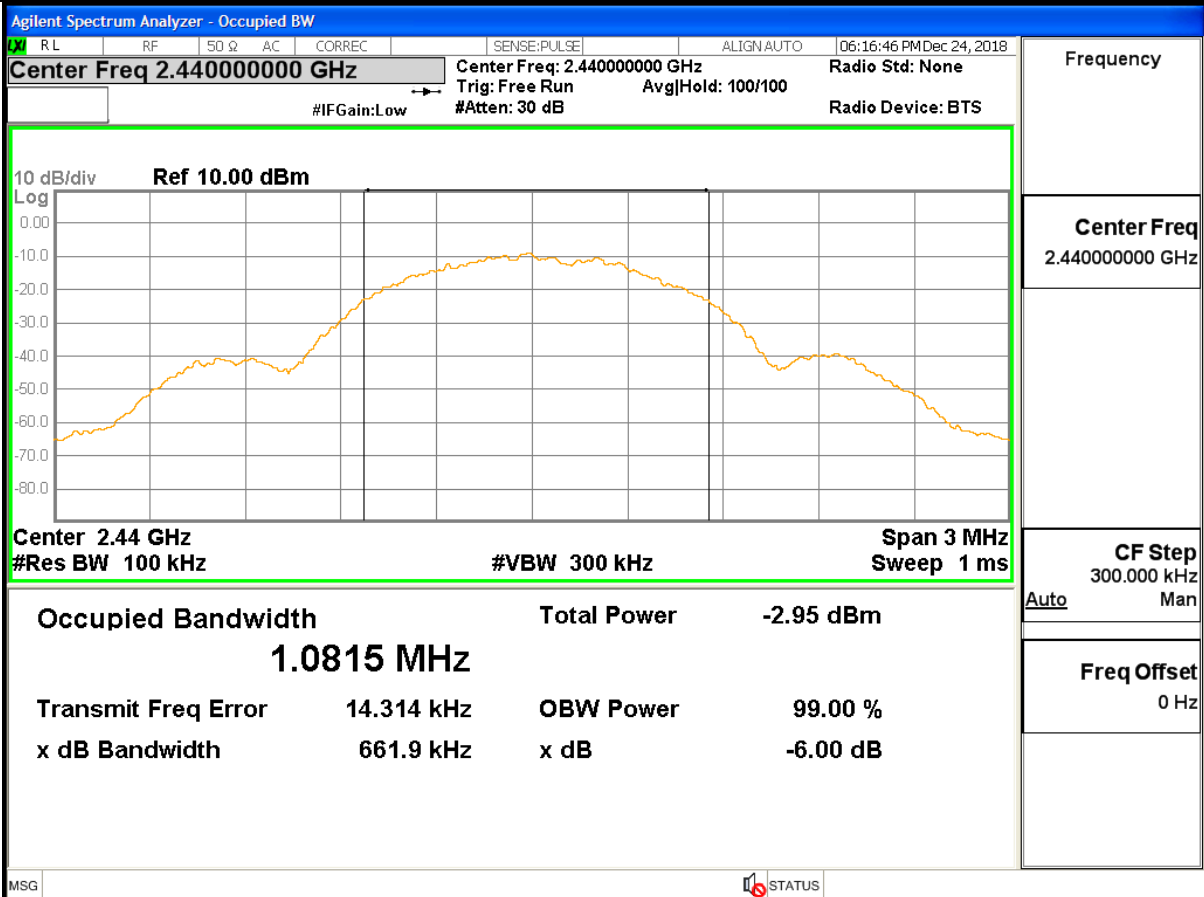
#### A.1. 6dB Bandwidth

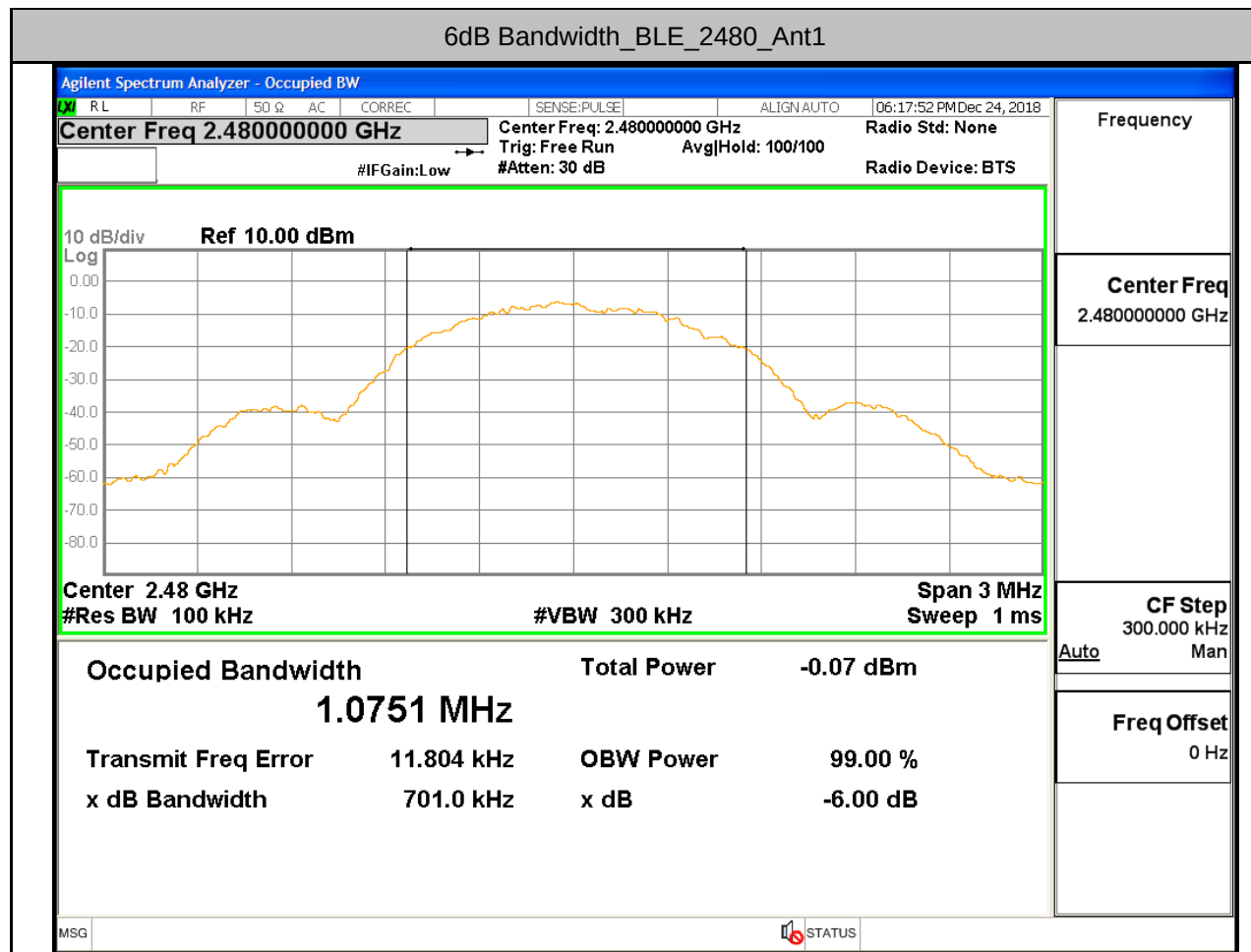
| Test Mode | Test Channel | Ant  | EBW[MHz] | Limit | Verdict |
|-----------|--------------|------|----------|-------|---------|
| BLE       | 2402         | Ant1 | 0.658    | 0.5   | PASS    |
| BLE       | 2440         | Ant1 | 0.662    | 0.5   | PASS    |
| BLE       | 2480         | Ant1 | 0.702    | 0.5   | PASS    |

## 6dB Bandwidth\_BLE\_2402\_Ant1



## 6dB Bandwidth\_BLE\_2440\_Ant1





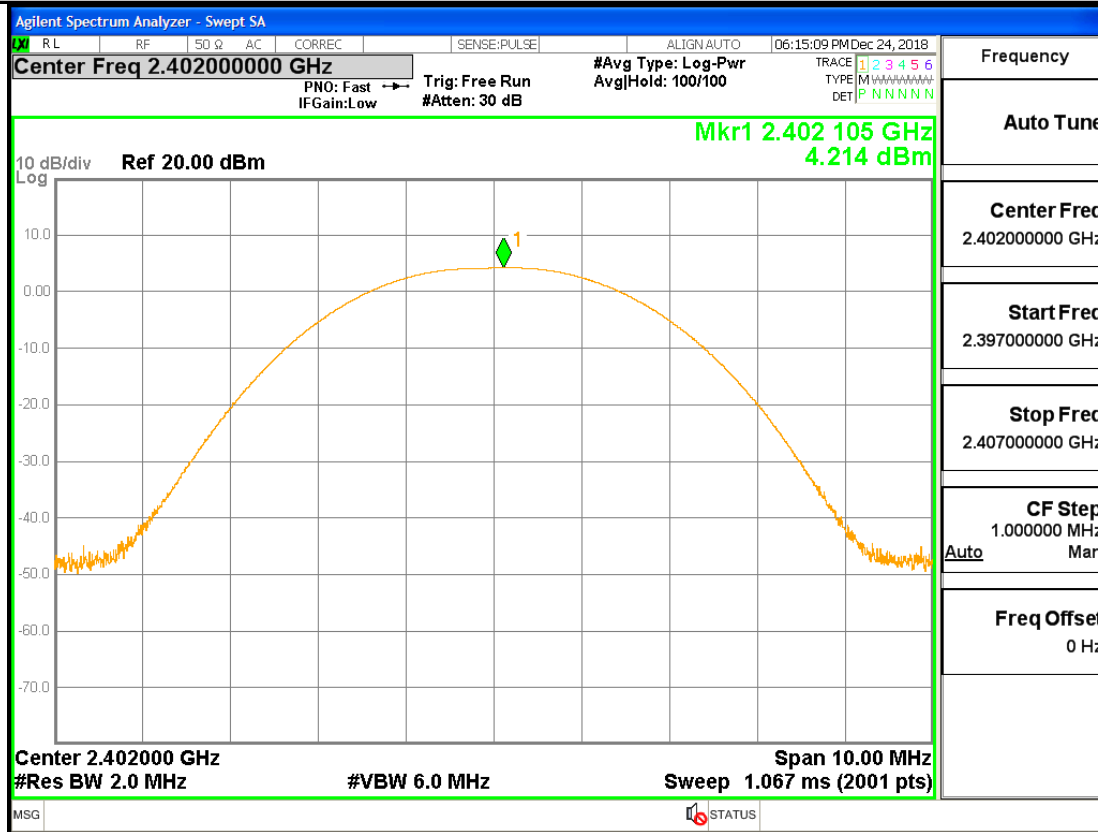
## A.2. Occupied Bandwidth

| Test Mode | Test Channel | Ant | OBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|-----|----------|------------|---------|
|-----------|--------------|-----|----------|------------|---------|

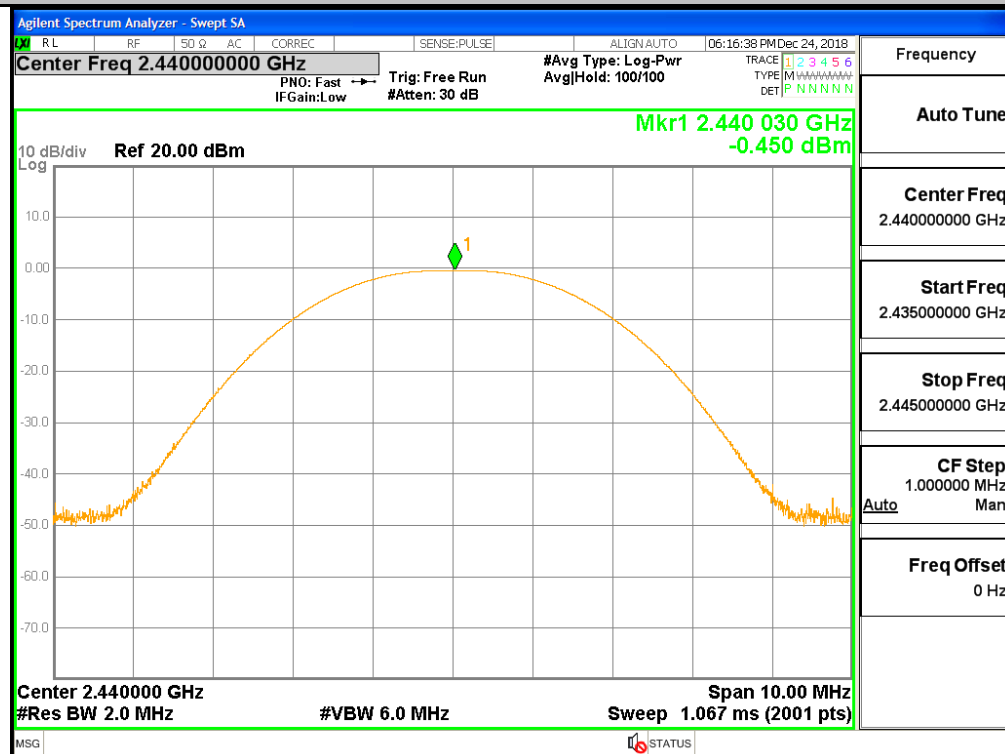
## A.3. Maximum peak conducted output power

| Test Mode | Test Channel | Ant  | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------|------------|------------|---------|
| BLE       | 2402         | Ant1 | -0.59      | 30         | PASS    |
| BLE       | 2440         | Ant1 | -1.03      | 30         | PASS    |
| BLE       | 2480         | Ant1 | -1.24      | 30         | PASS    |

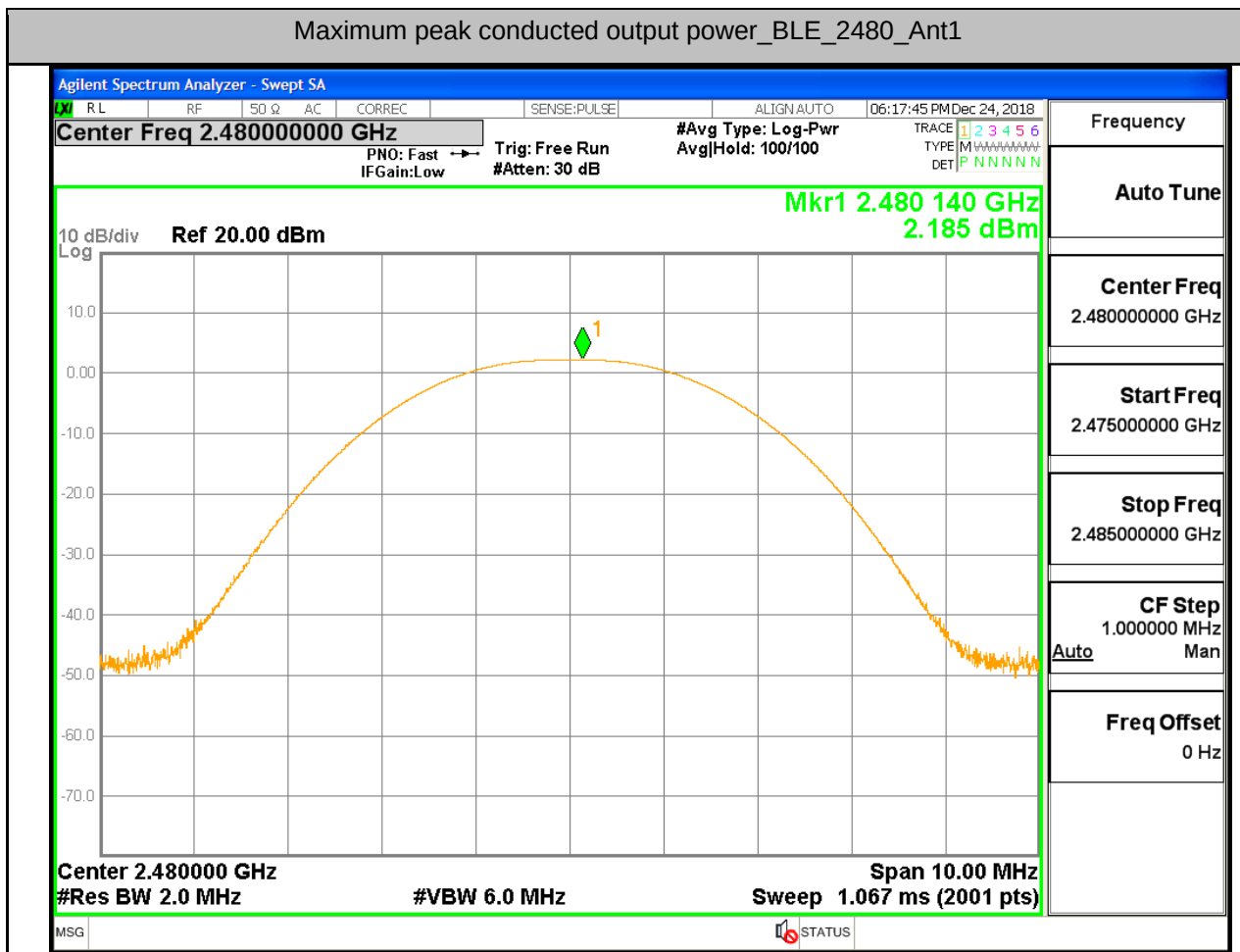
## Maximum peak conducted output power\_BLE\_2402\_Ant1



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



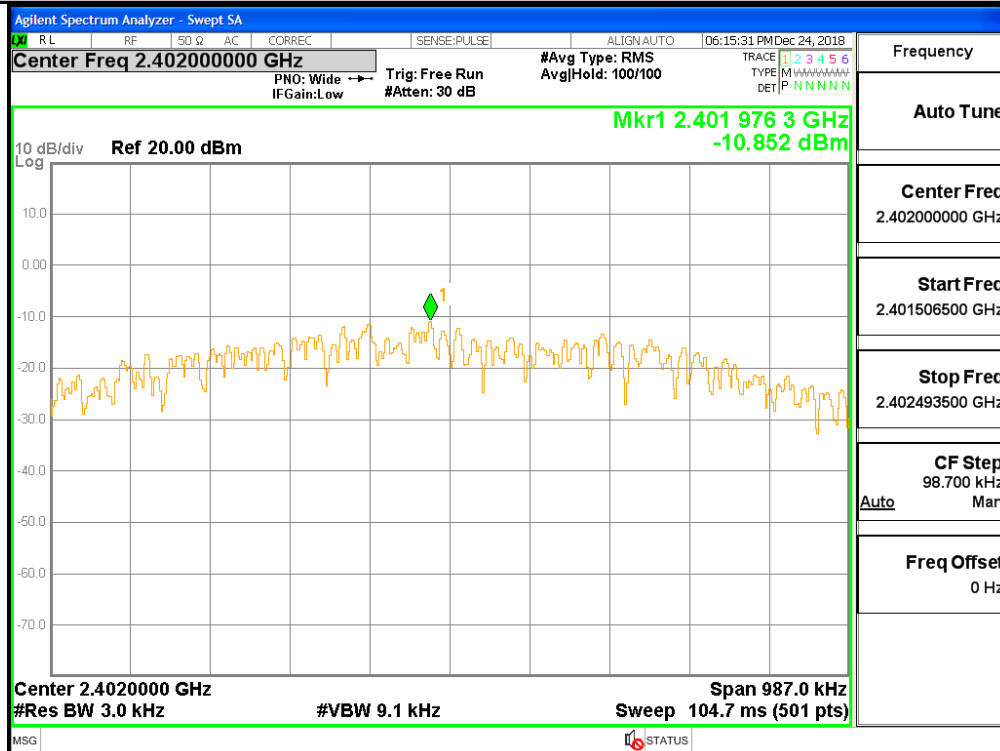
## Maximum peak conducted output power\_BLE\_2480\_Ant1



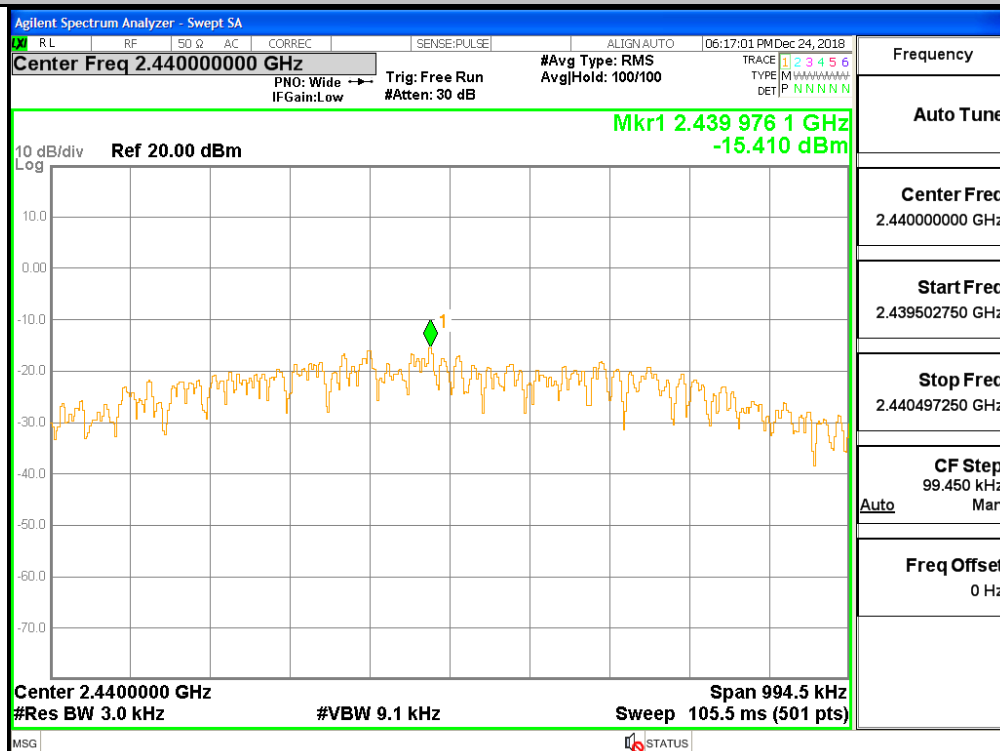
**A.4. Maximum Peak power spectral density**

| Test Mode | Test Channel | Ant  | PSD[dBm/3KHz] | Limit[dBm/3KHz] | Verdict |
|-----------|--------------|------|---------------|-----------------|---------|
| BLE       | 2402         | Ant1 | -10.852       | 8.00            | PASS    |
| BLE       | 2440         | Ant1 | -15.410       | 8.00            | PASS    |
| BLE       | 2480         | Ant1 | -12.756       | 8.00            | PASS    |

## Maximum Peak power spectral density\_BLE\_2402\_Ant1

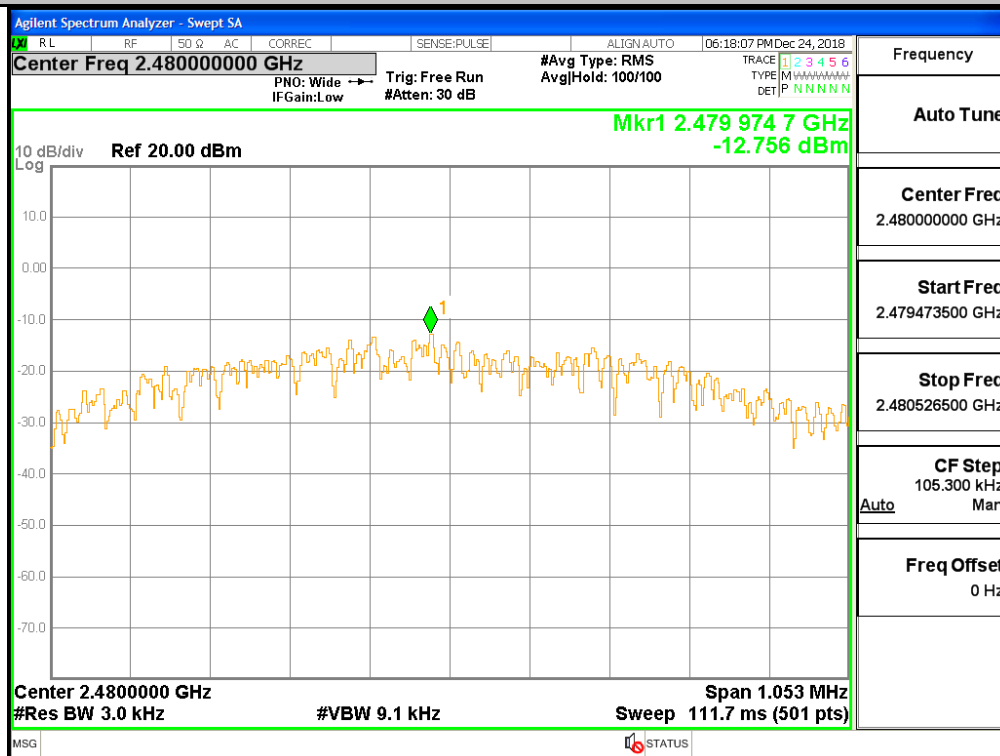


## Maximum Peak power spectral density\_BLE\_2440\_Ant1





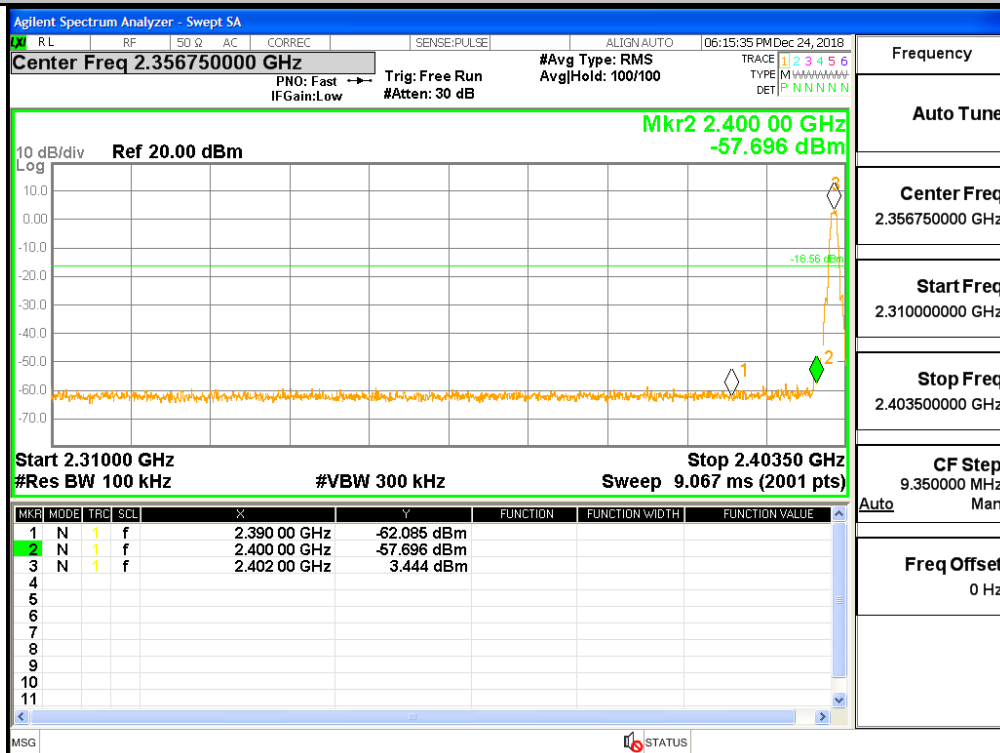
## Maximum Peak power spectral density\_BLE\_2480\_Ant1



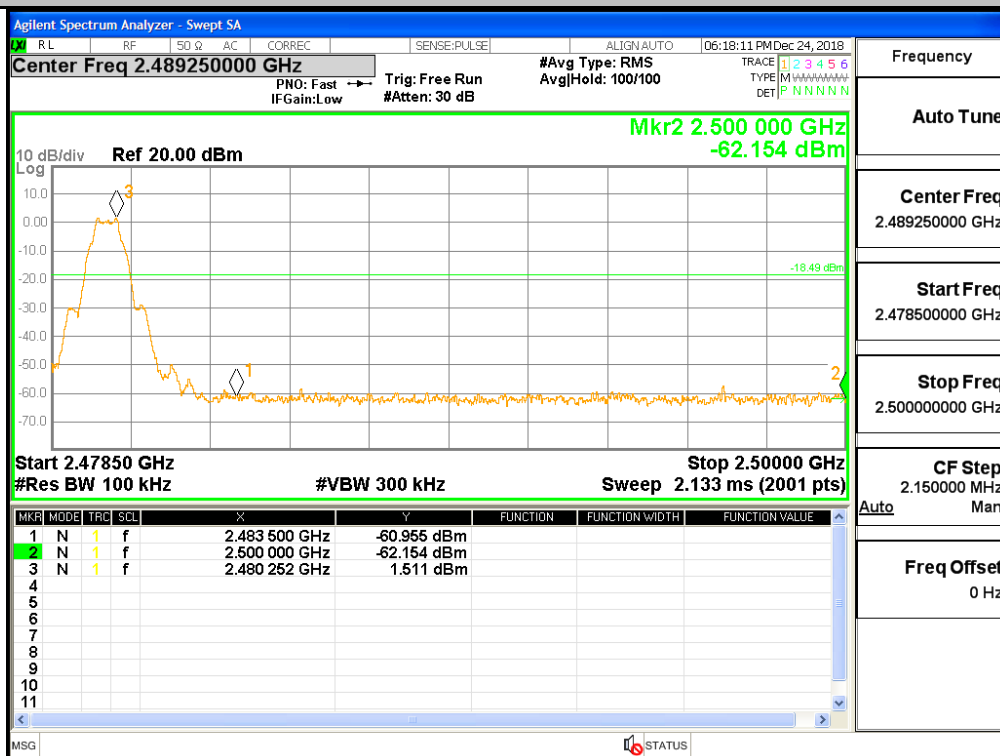
**A.5. Band-edge for RF Conducted Emissions**

| Type | Carrier Frequency(MHz) | Frequency(MHz) | Carrier Frequency Power [dBm] | Bandedge Peak(dBm) | Upper limit(dBm) | Conclusion |
|------|------------------------|----------------|-------------------------------|--------------------|------------------|------------|
| BLE  | 2402                   | 2390           | 3.444                         | -62.08             | -16.556          | Pass       |
| BLE  | 2402                   | 2400           | 3.444                         | -57.7              | -16.556          | Pass       |
| BLE  | 2480                   | 2483.5         | 1.511                         | -60.96             | -18.489          | Pass       |
| BLE  | 2480                   | 2500           | 1.511                         | -62.15             | -18.489          | Pass       |

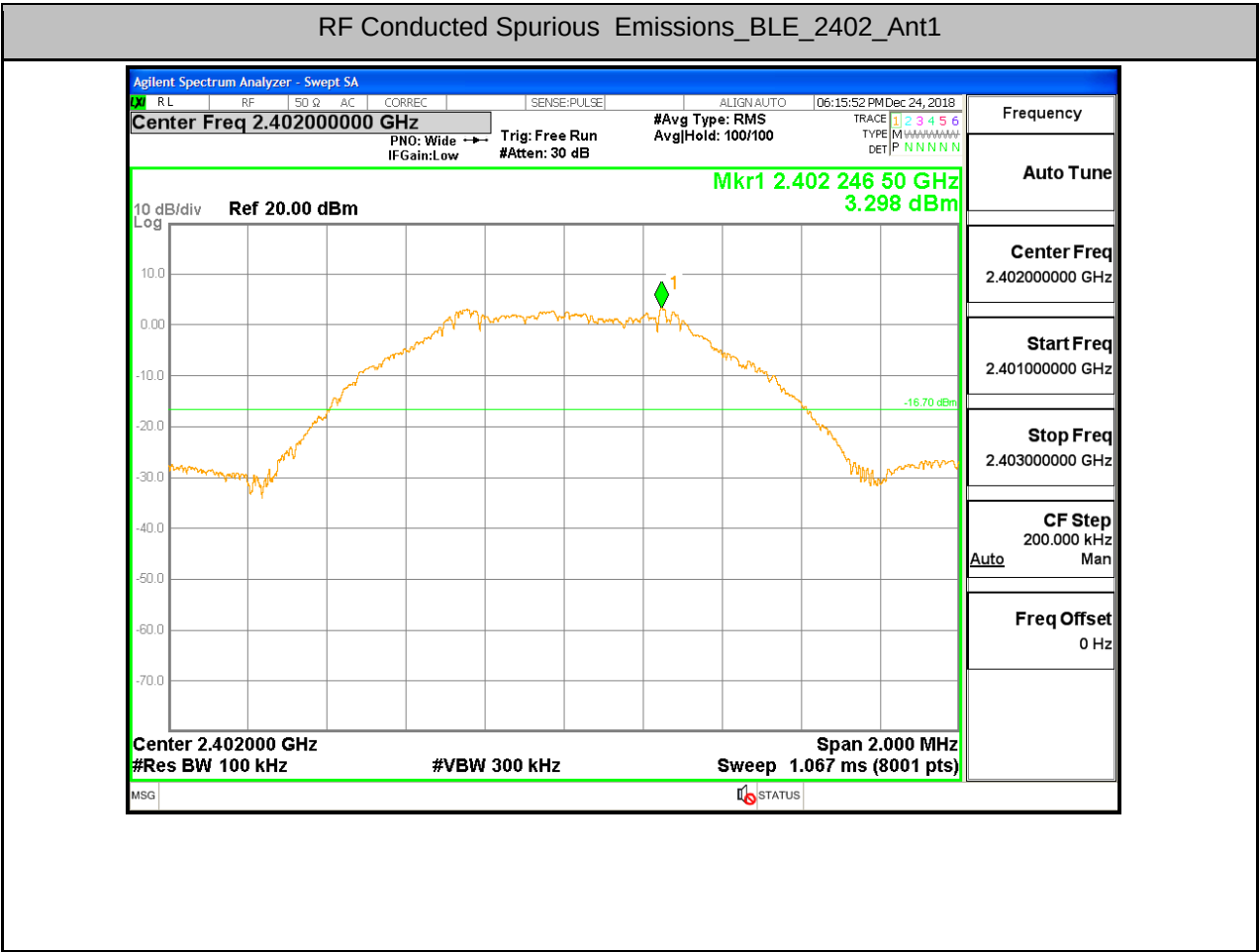
## Band-edge for RF Conducted Emissions\_BLE\_2402\_Ant1

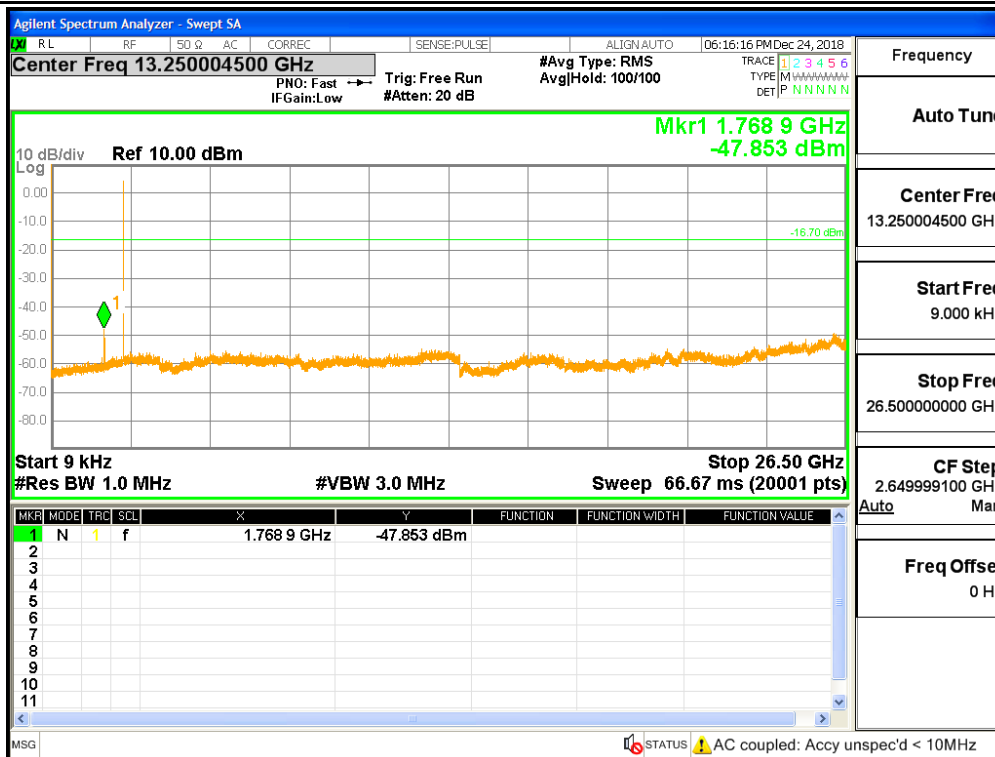


## Band-edge for RF Conducted Emissions\_BLE\_2480\_Ant1

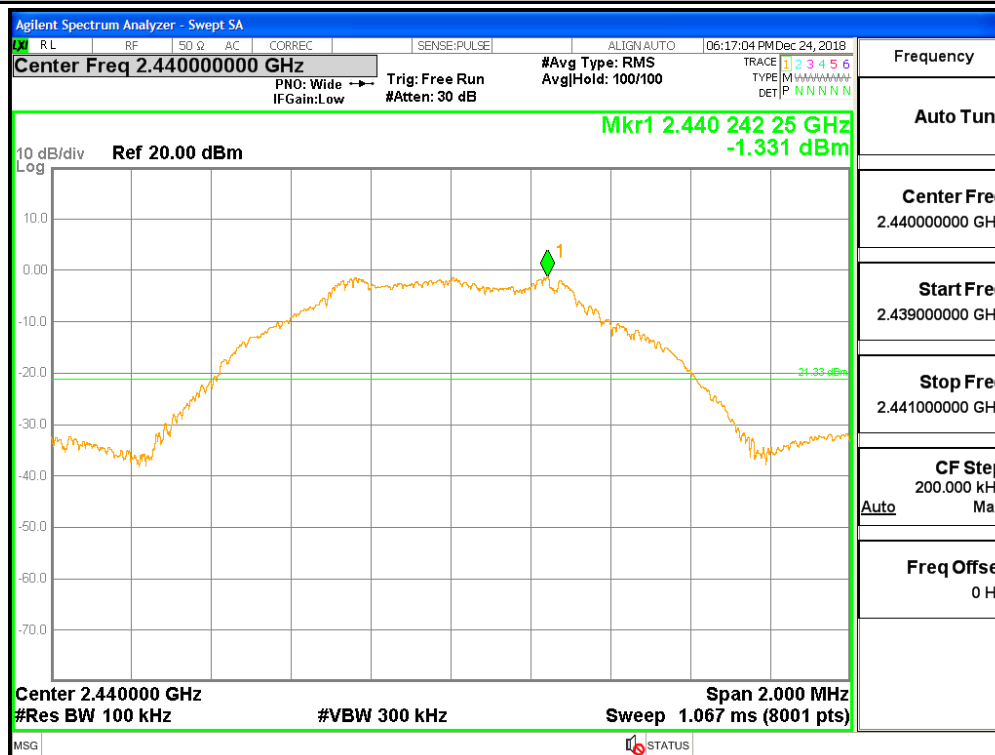


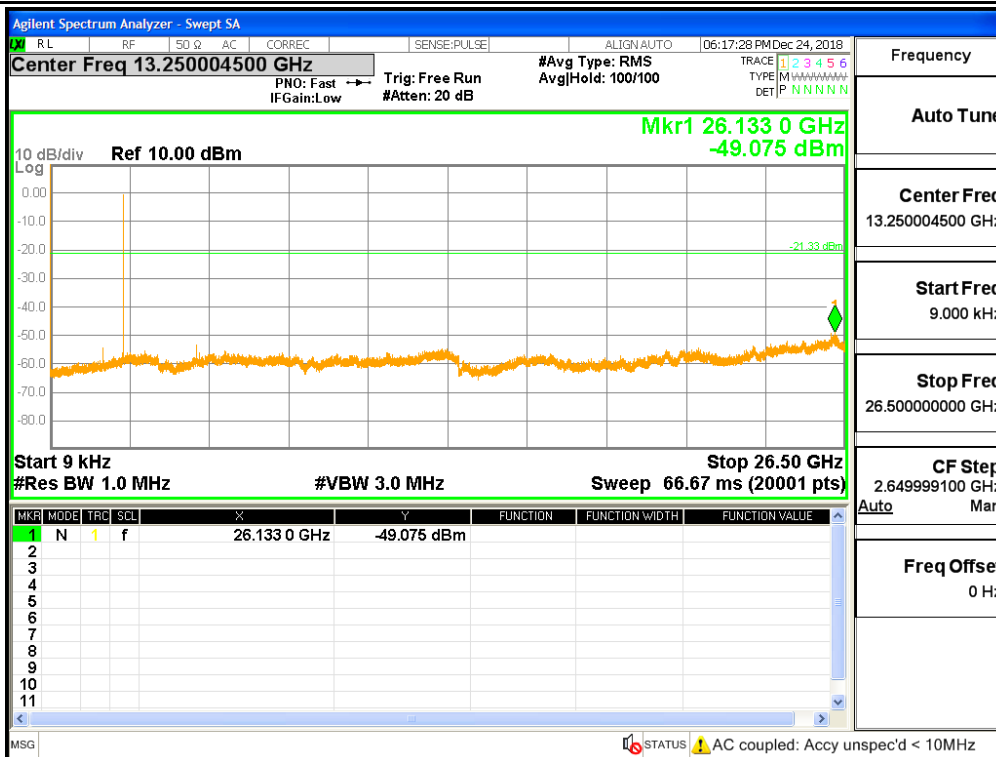
A.6.RF Conducted Spurious Emissions



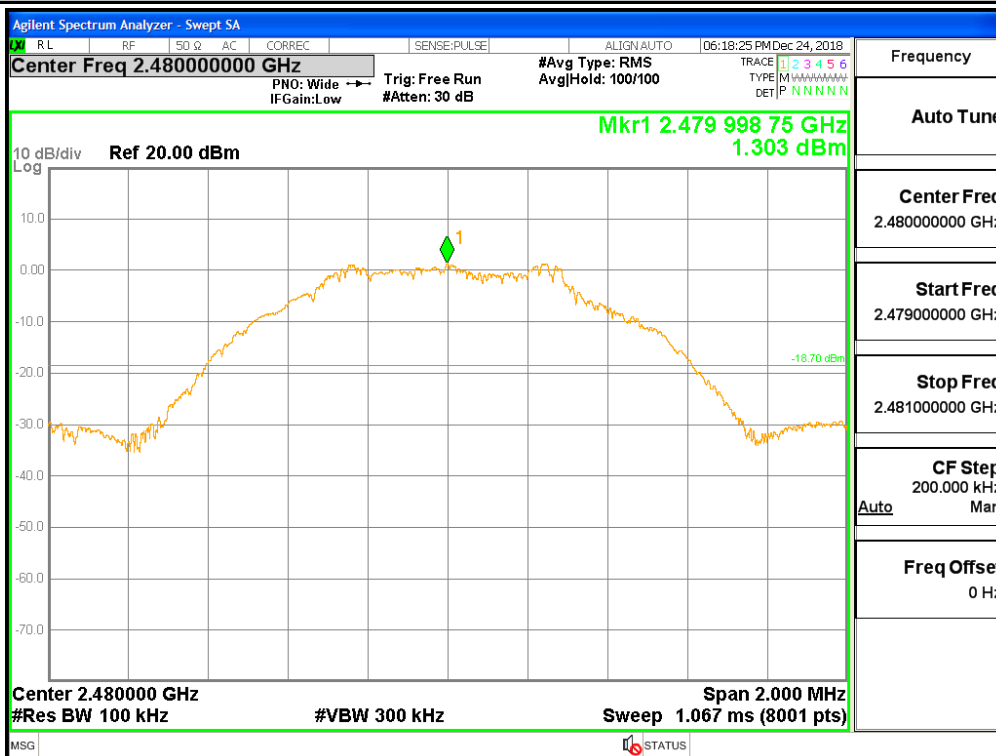


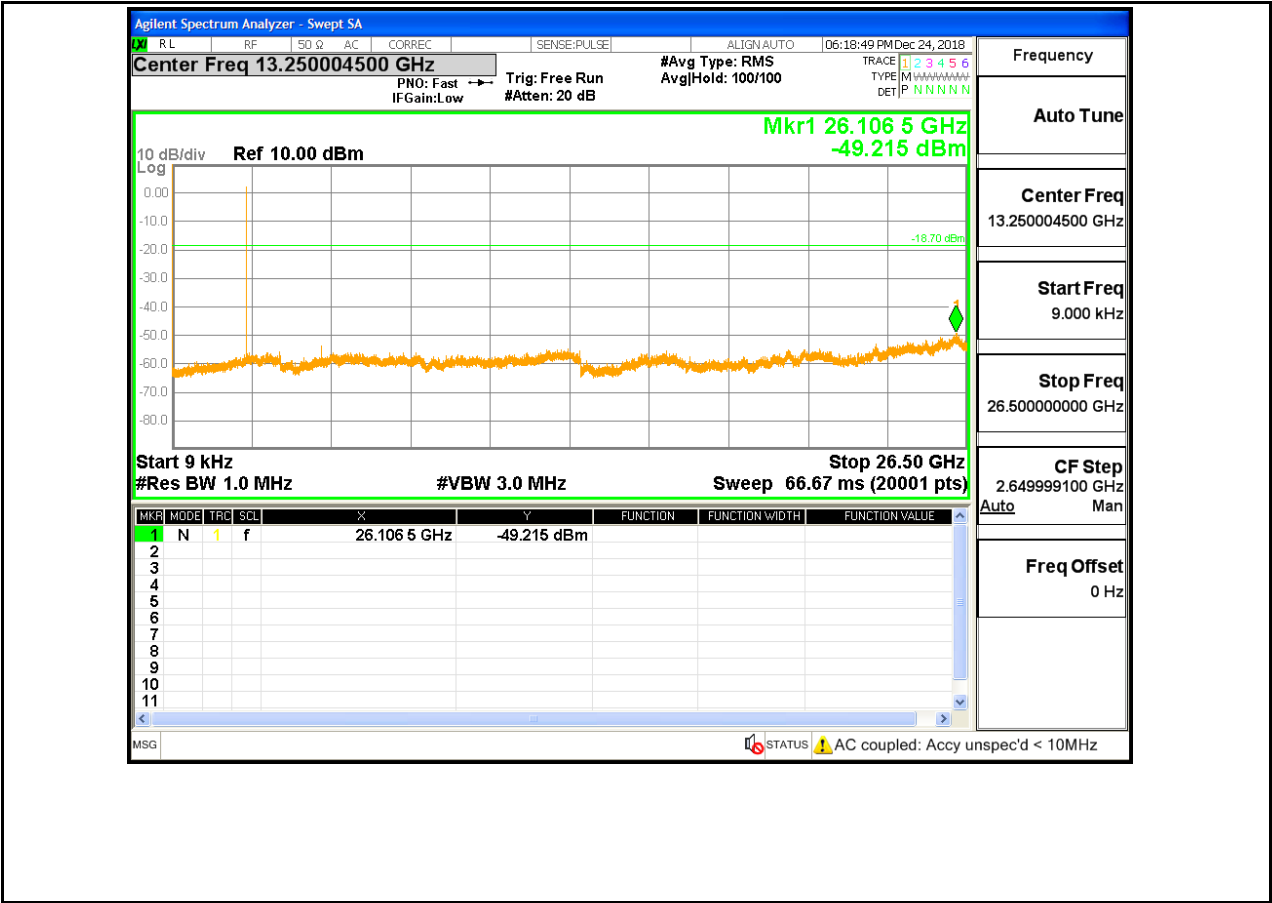
## RF Conducted Spurious Emissions\_BLE\_2440\_Ant1





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



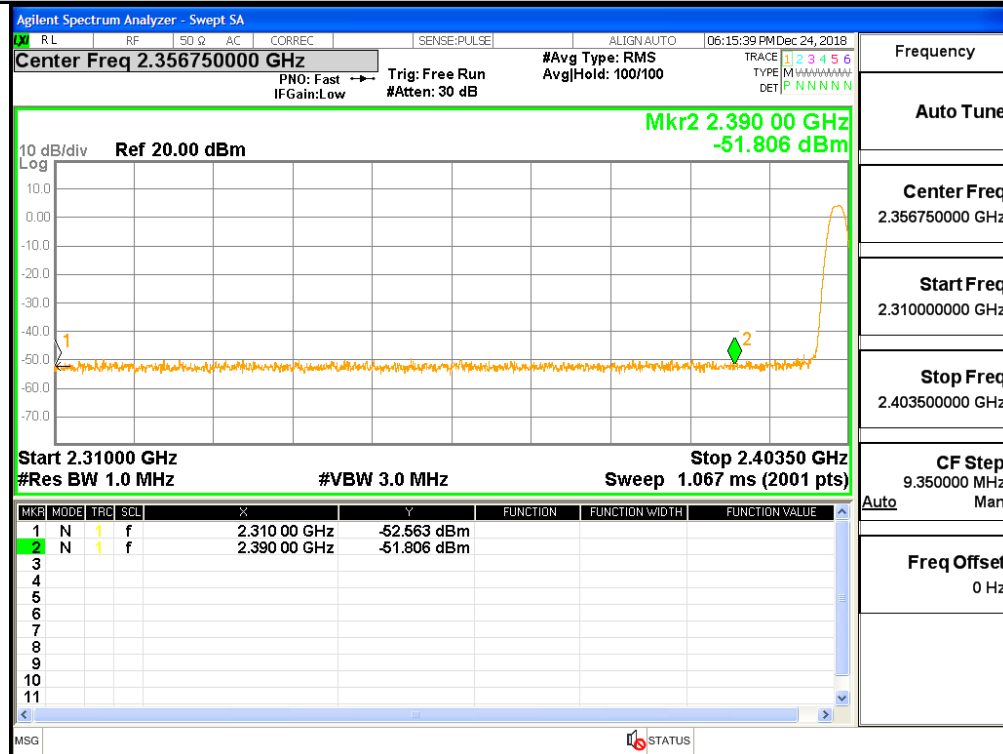


**A.7. Restrict-band band-edge measurements**

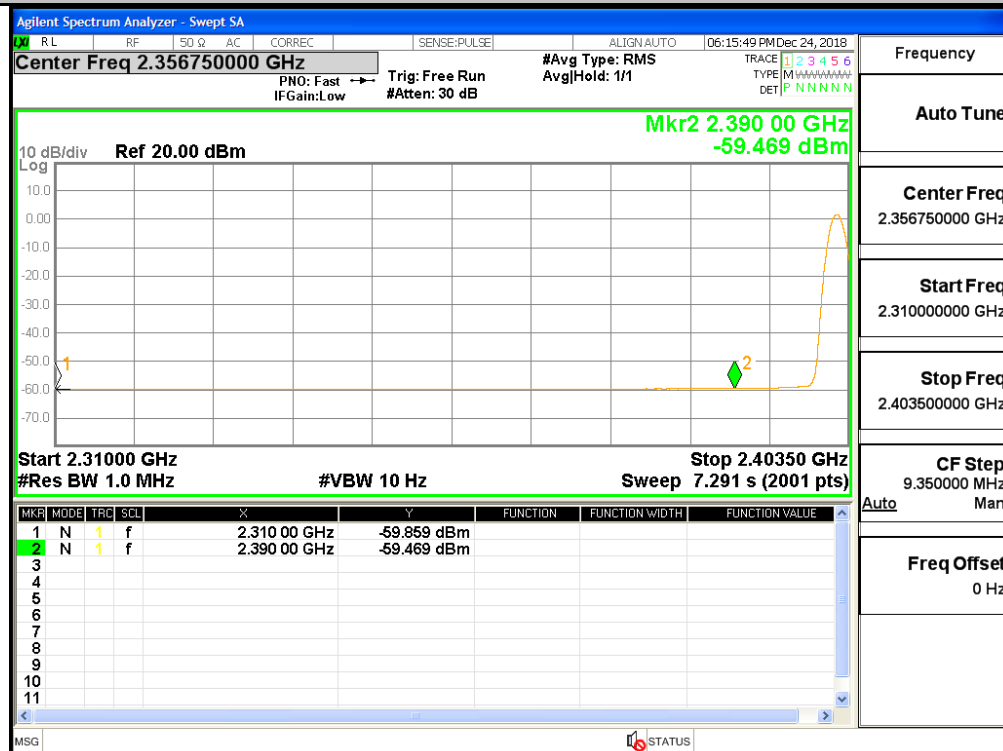
| Type | Carrier Frequency (MHz) | Frequency (MHz) | Gain | Ground Factor | Peak Value(dBm) | E [dBuV/m] | Limit [dBuV/m] | Average Value(dBm) | E [dBuV/m] | Limit [dBuV/m] | Conclusion |
|------|-------------------------|-----------------|------|---------------|-----------------|------------|----------------|--------------------|------------|----------------|------------|
| 1DH5 | 2402                    | 2310            | 2    | 0             | -51.16          | 46.04      | 74             | -59.82             | 37.38      | 54             | Pass       |
| 1DH5 | 2402                    | 2390            | 2    | 0             | -49.73          | 47.47      | 74             | -59.3              | 37.9       | 54             | Pass       |
| 1DH5 | 2480                    | 2483.5          | 2    | 0             | -50.85          | 46.35      | 74             | -53.57             | 43.63      | 54             | Pass       |
| 1DH5 | 2480                    | 2500            | 2    | 0             | -50.97          | 46.23      | 74             | -59.05             | 38.15      | 54             | Pass       |



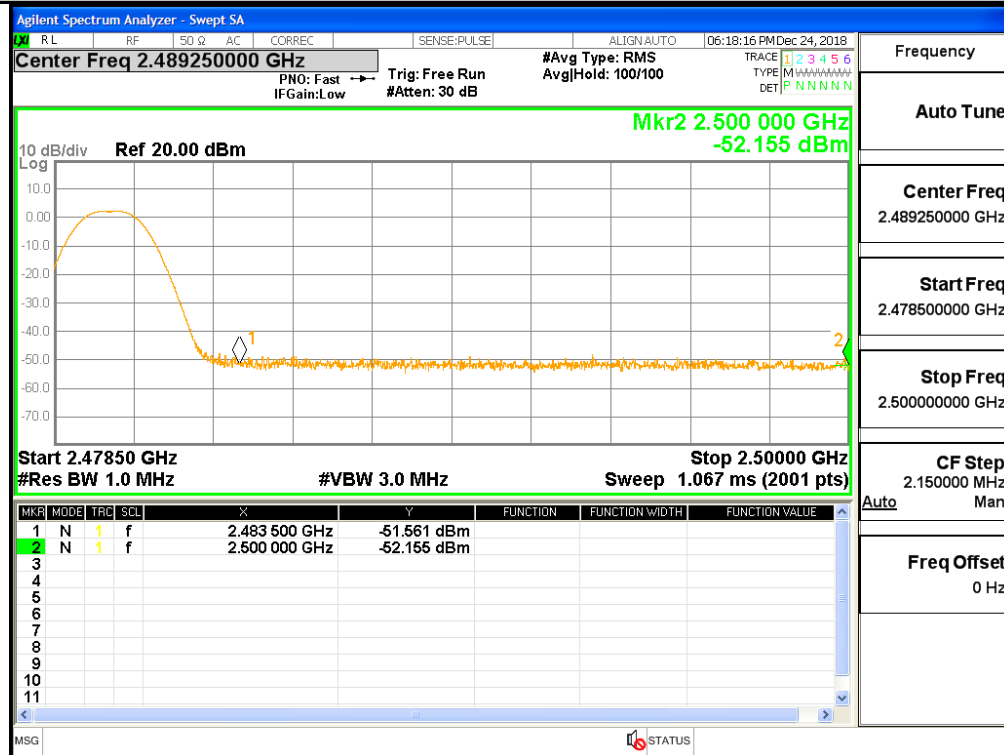
## Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_PEAK



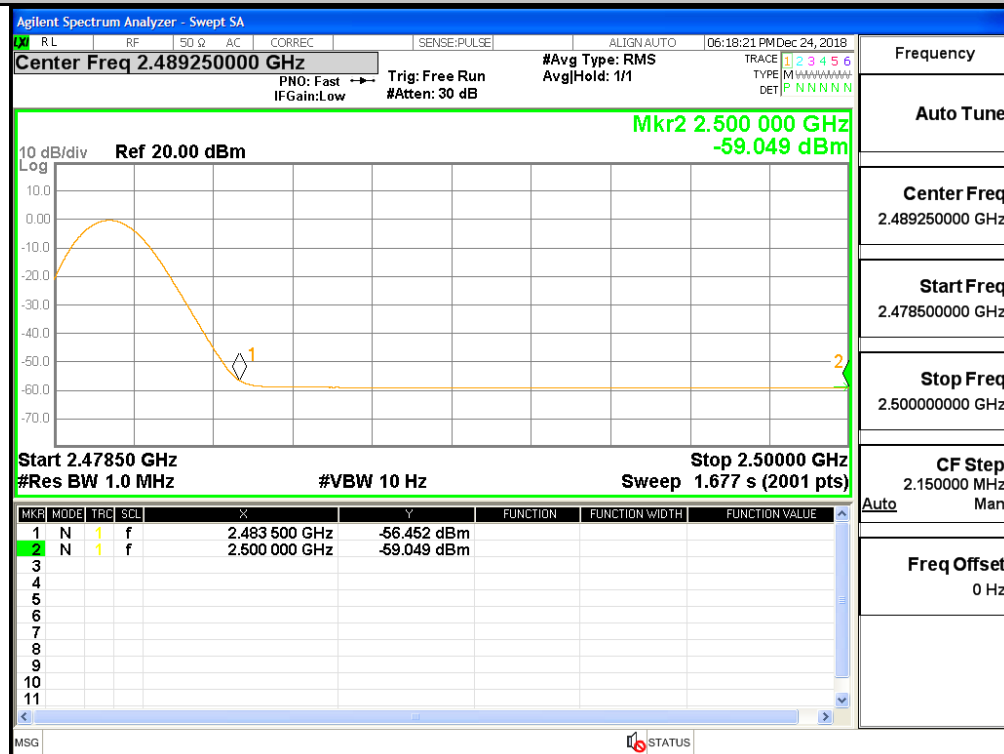
## Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_AV



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



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



A.8. Duty Cycle

