

## Appendix A

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

Product Name: RCU

Trade Mark: N/A

Test Model: B100

FCC ID: 2AOVU-B100

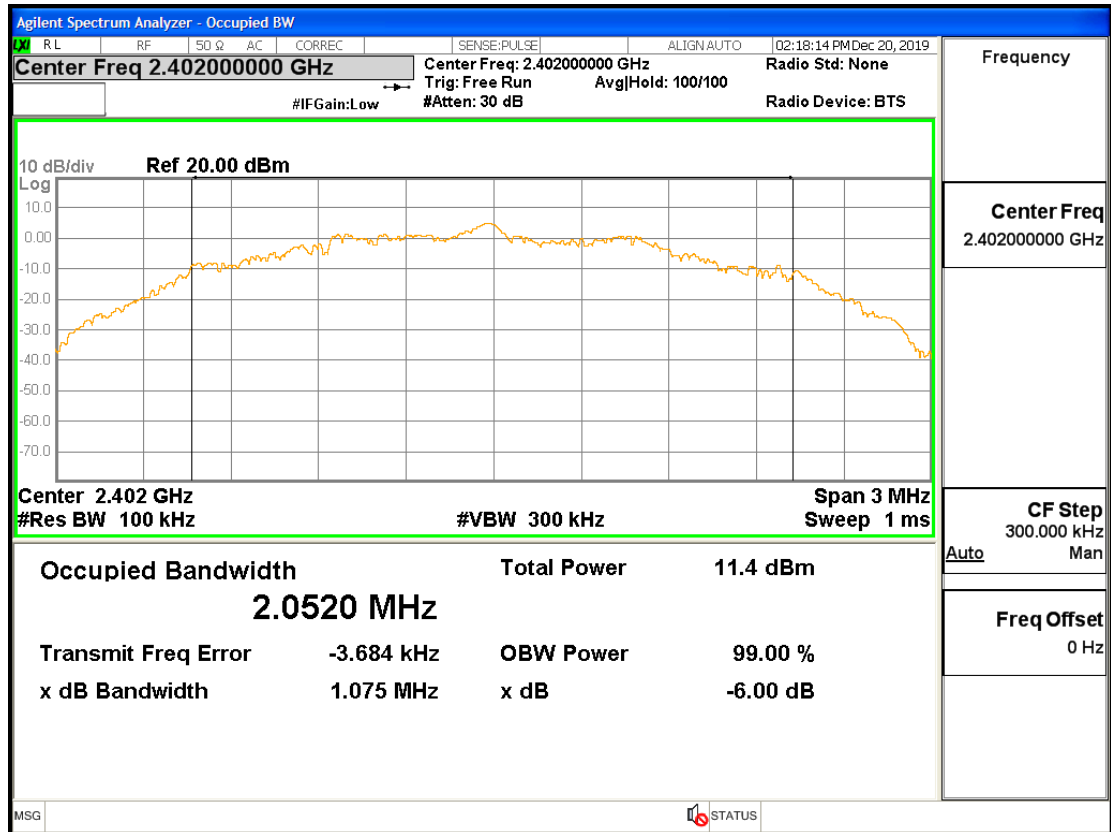
### Environmental Conditions

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

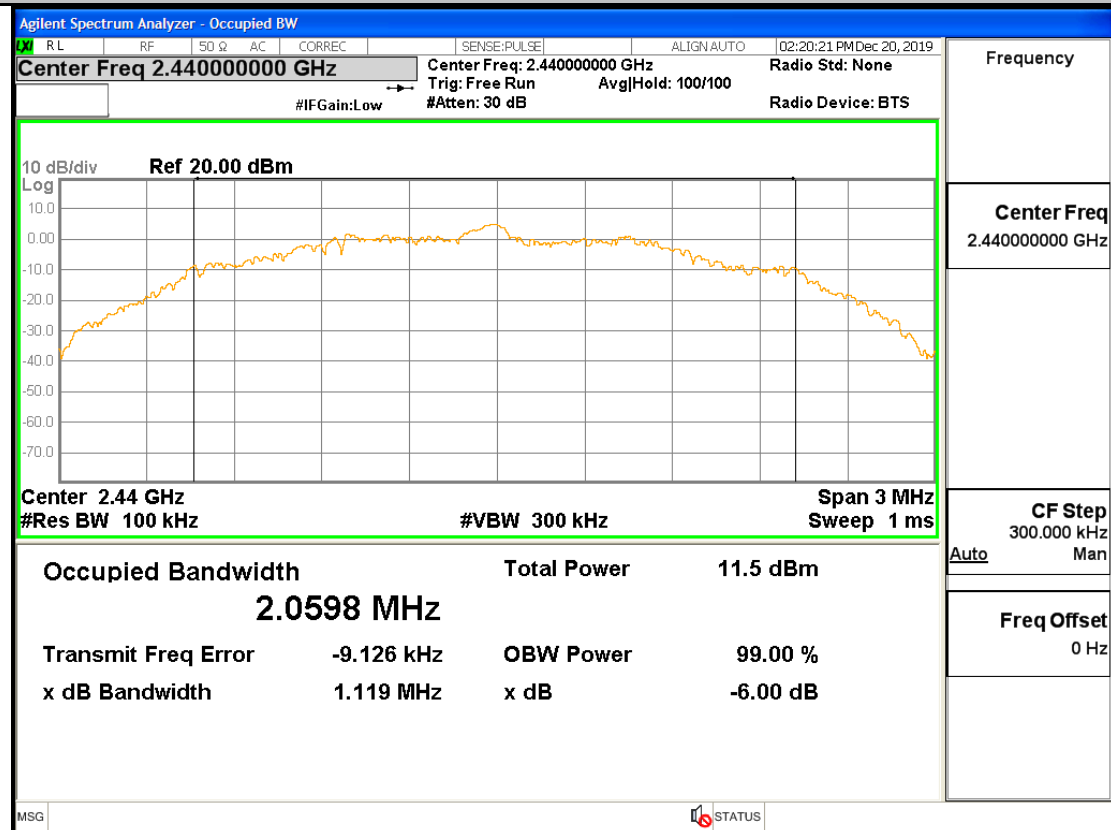
### 1.6dB Bandwidth

| Test Mode | Test Channel | Ant  | EBW[MHz] | Limit | Verdict |
|-----------|--------------|------|----------|-------|---------|
| BLE       | 2402         | Ant1 | 1.075    | 0.5   | PASS    |
| BLE       | 2440         | Ant1 | 1.119    | 0.5   | PASS    |
| BLE       | 2480         | Ant1 | 1.092    | 0.5   | PASS    |

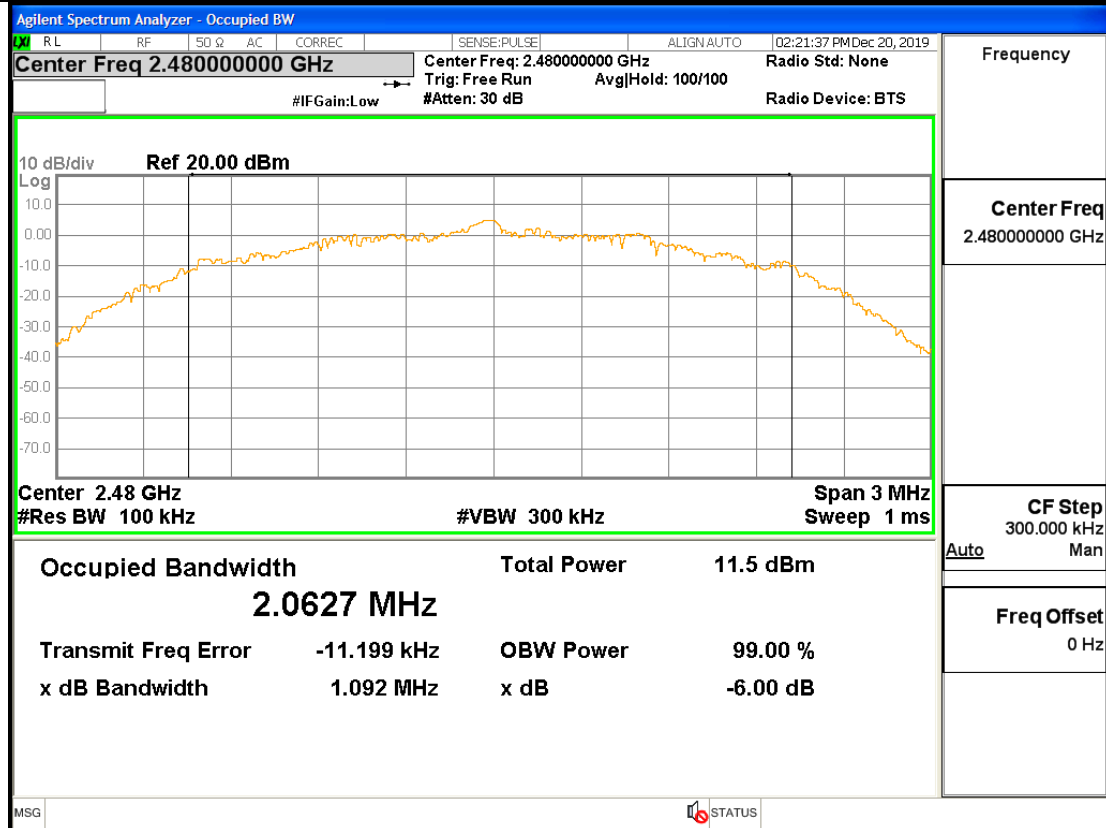
## 6dB Bandwidth\_BLE\_2402\_Ant1



## 6dB Bandwidth\_BLE\_2440\_Ant1



## 6dB Bandwidth\_BLE\_2480\_Ant1



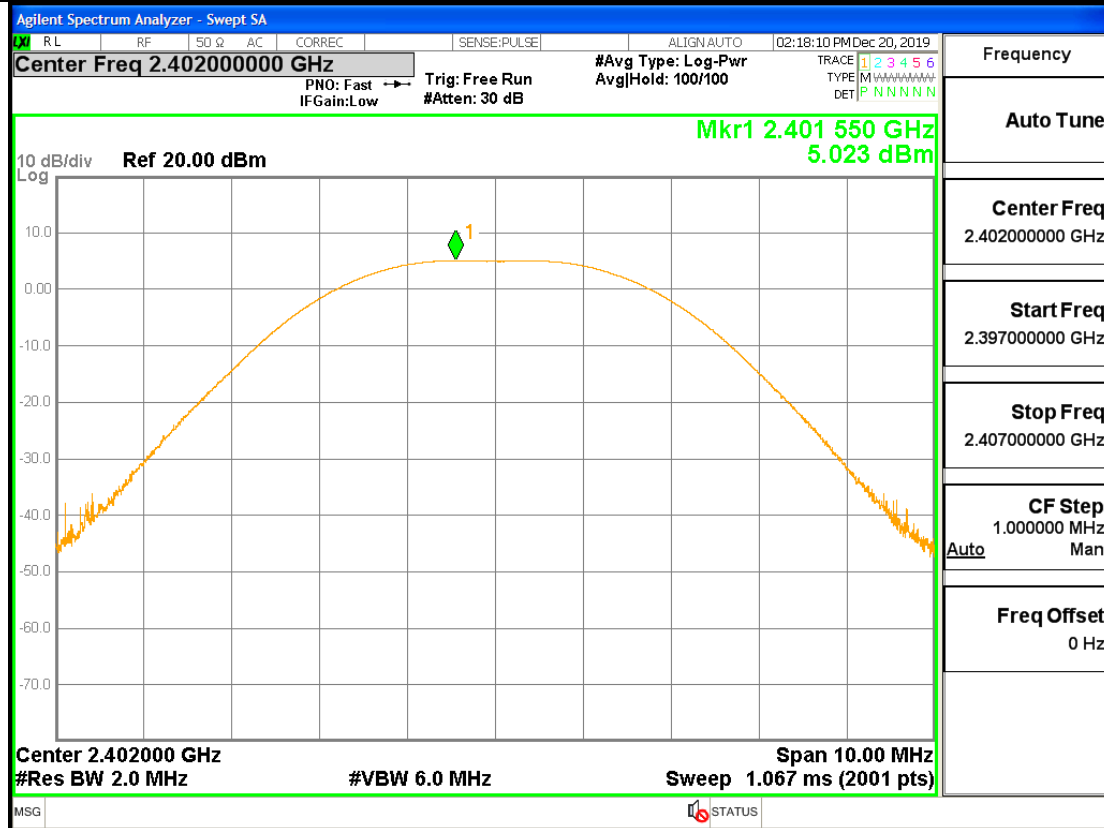
**2.Occupied Bandwidth**

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

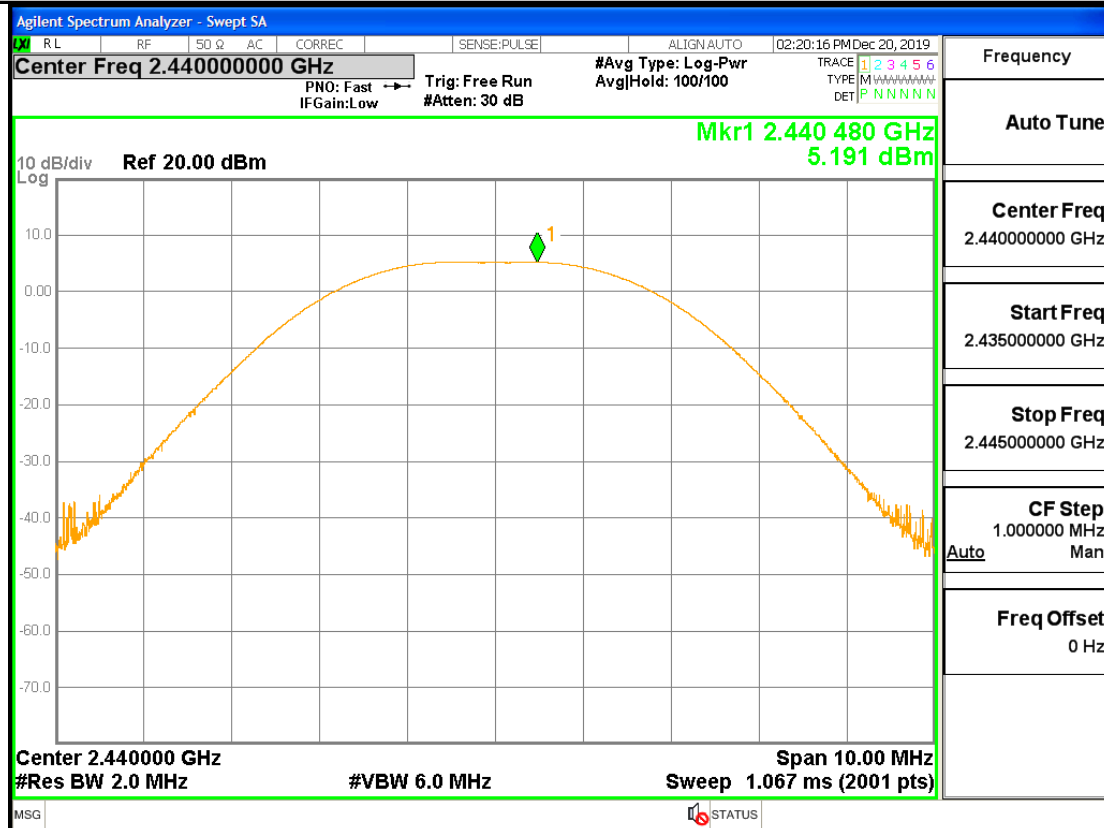
**3.Maximum peak conducted output power**

| Test Mode | Test Channel | Ant  | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------|------------|------------|---------|
| BLE       | 2402         | Ant1 | 5.023      | 30         | PASS    |
| BLE       | 2440         | Ant1 | 5.191      | 30         | PASS    |
| BLE       | 2480         | Ant1 | 5.287      | 30         | PASS    |

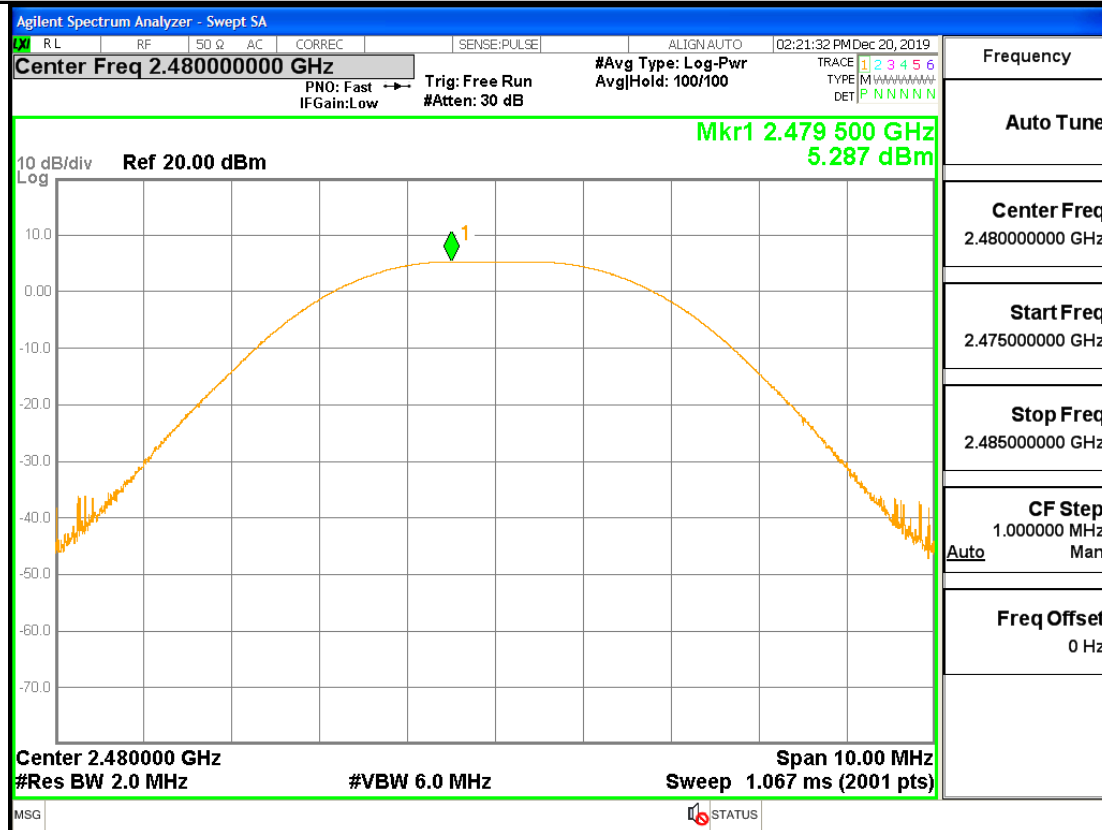
## Maximum peak conducted output power\_BLE\_2402\_Ant1



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



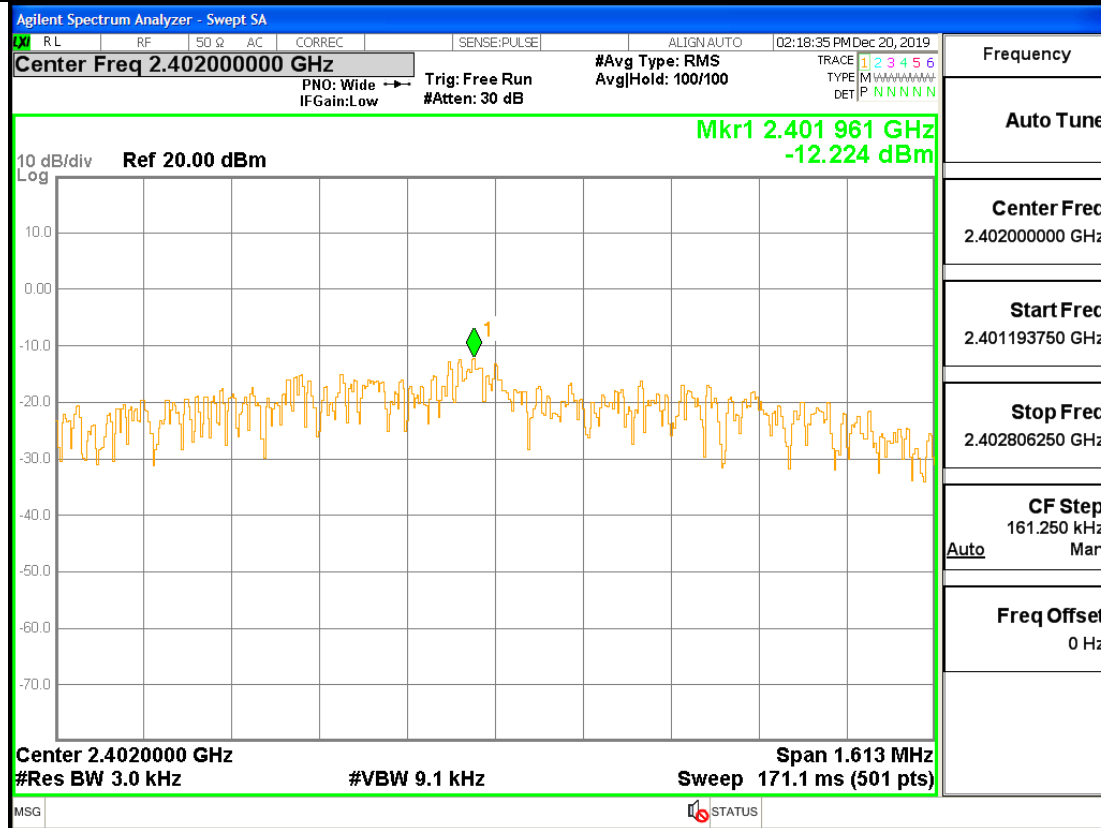
## Maximum peak conducted output power\_BLE\_2480\_Ant1



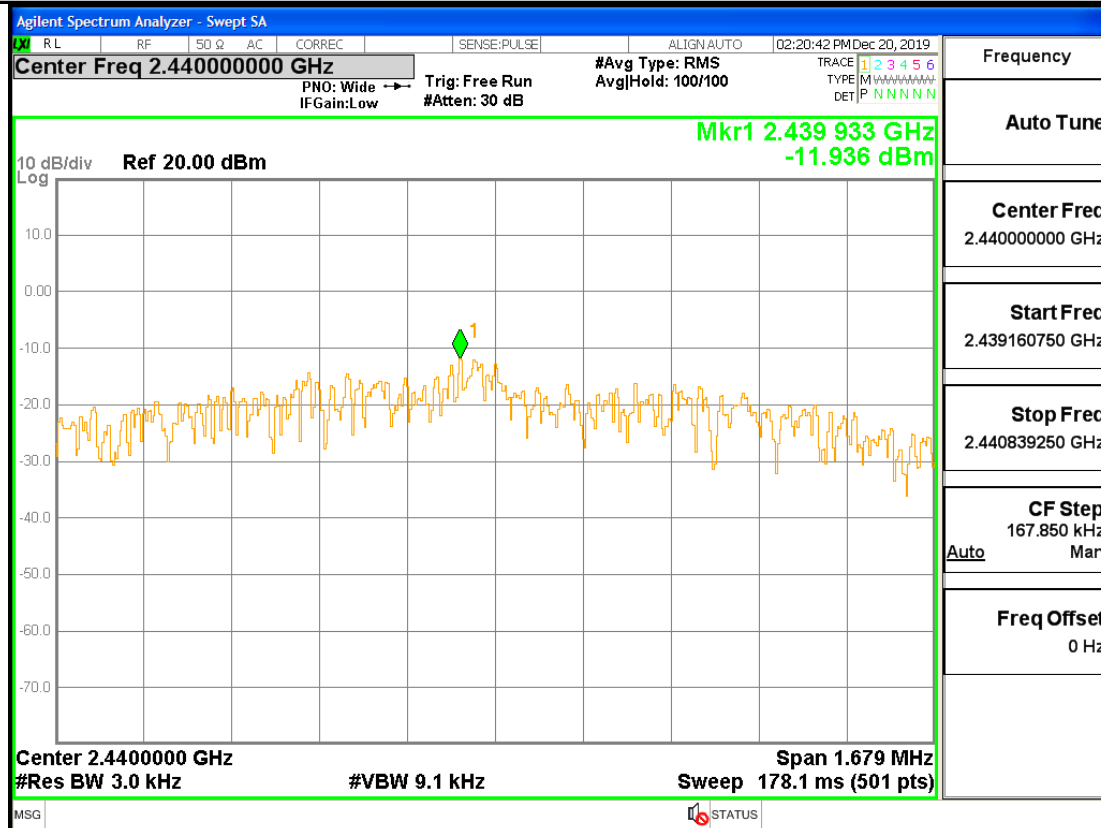
**4.Maximum Peak power spectral density**

| Test Mode | Test Channel | Ant  | PSD[dBm/3KHz] | Limit[dBm/3KHz] | Verdict |
|-----------|--------------|------|---------------|-----------------|---------|
| BLE       | 2402         | Ant1 | -12.224       | 8.00            | PASS    |
| BLE       | 2440         | Ant1 | -11.936       | 8.00            | PASS    |
| BLE       | 2480         | Ant1 | -12.269       | 8.00            | PASS    |

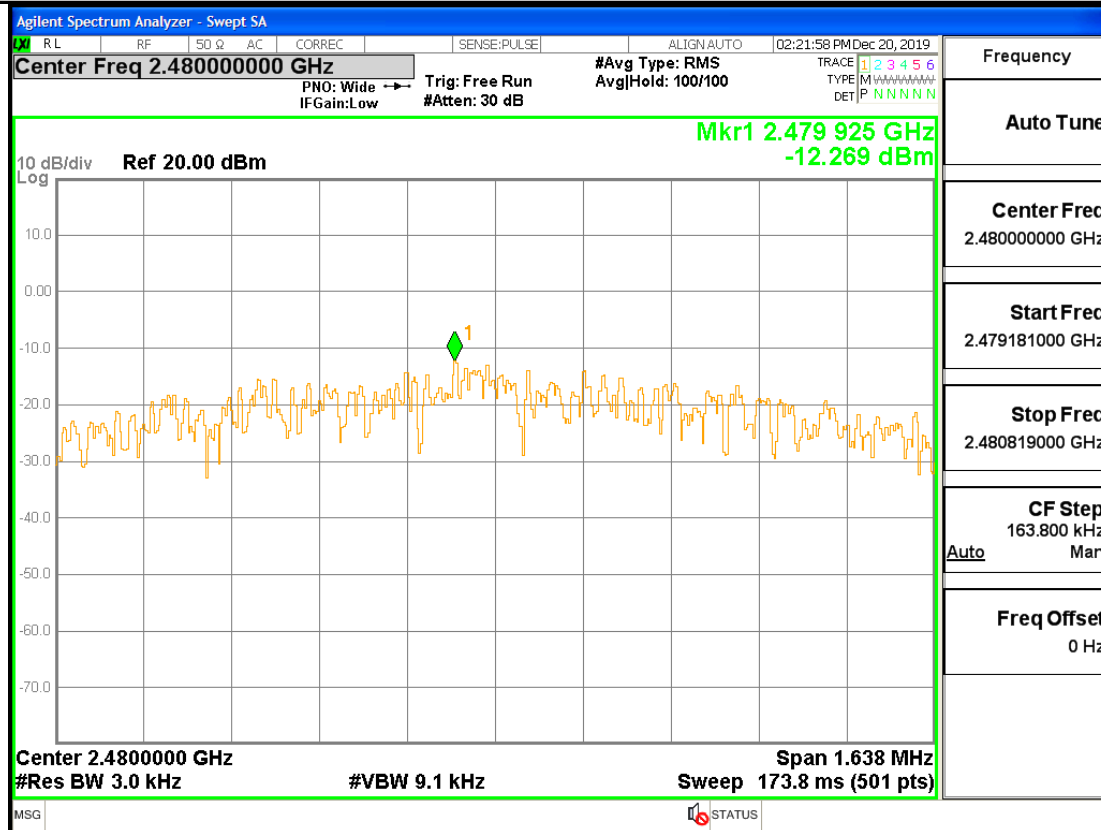
## Maximum Peak power spectral density\_BLE\_2402\_Ant1



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



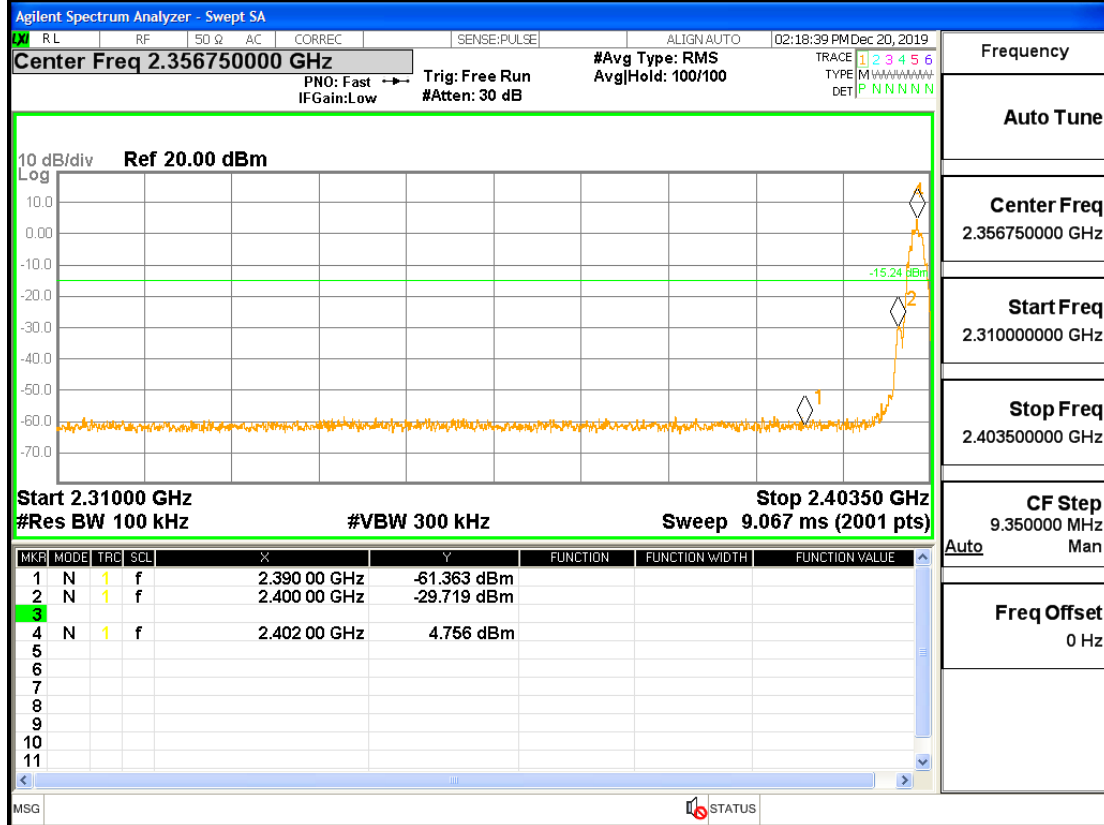
## Maximum Peak power spectral density\_BLE\_2480\_Ant1



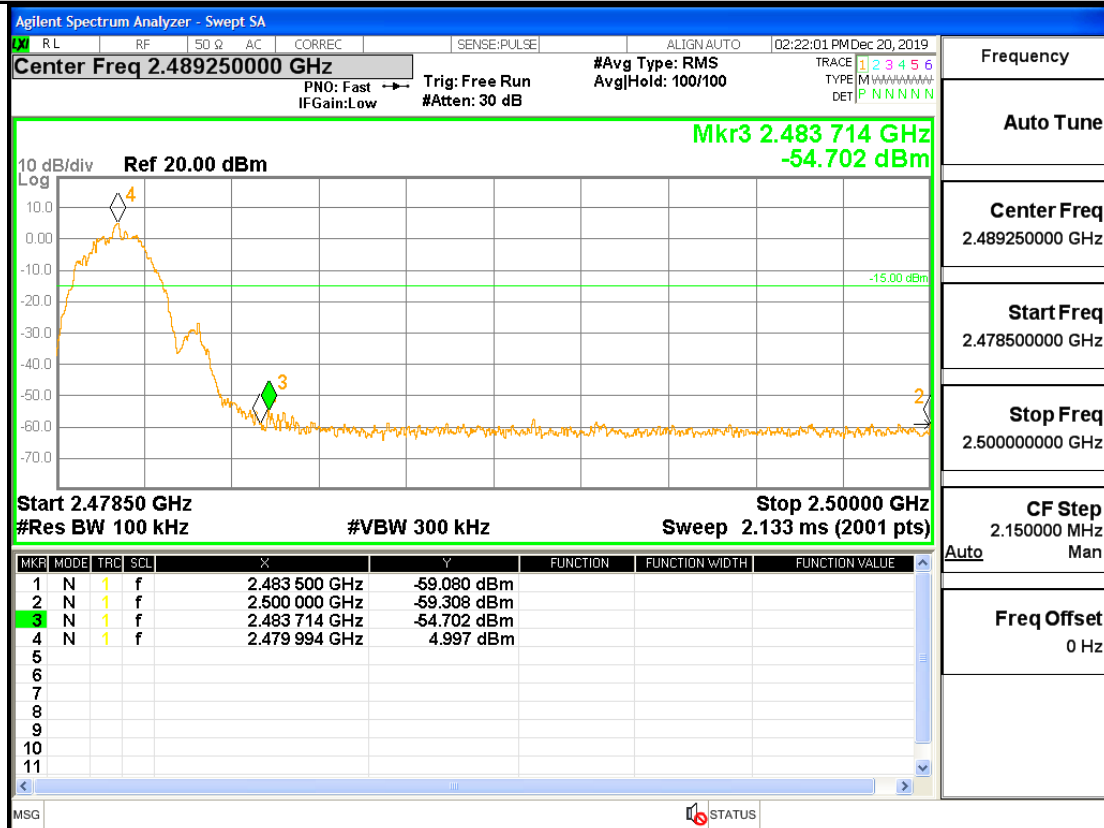
**5.Band-edge for RF Conducted Emissions**

| Type | Carrier Frequency(MHz) | Frequency(MHz) | Carrier Frequency Power [dBm] | Bandedge Peak(dBm) | Upper limit(dBm) | Conclusion |
|------|------------------------|----------------|-------------------------------|--------------------|------------------|------------|
| BLE  | 2402                   | 2400           | 4.756                         | -29.72             | -15.244          | Pass       |
| BLE  | 2480                   | 2483.714       | 4.997                         | -54.702            | -15.003          | Pass       |

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

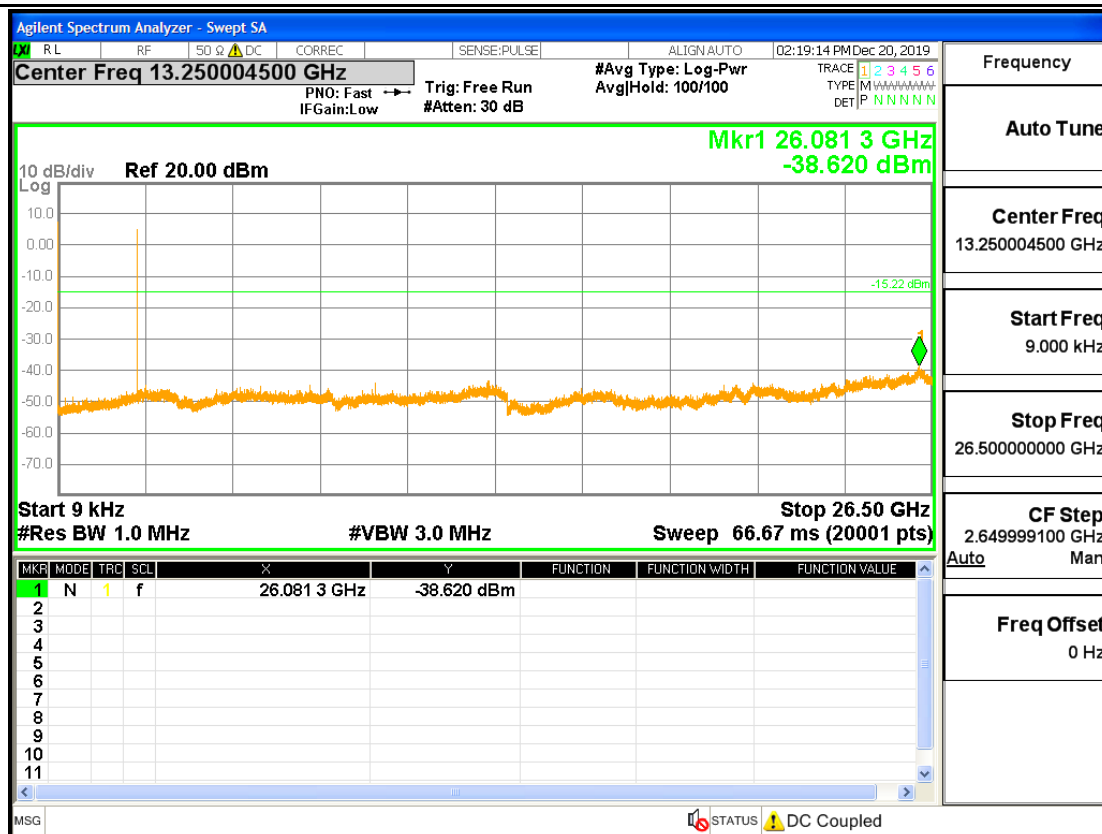
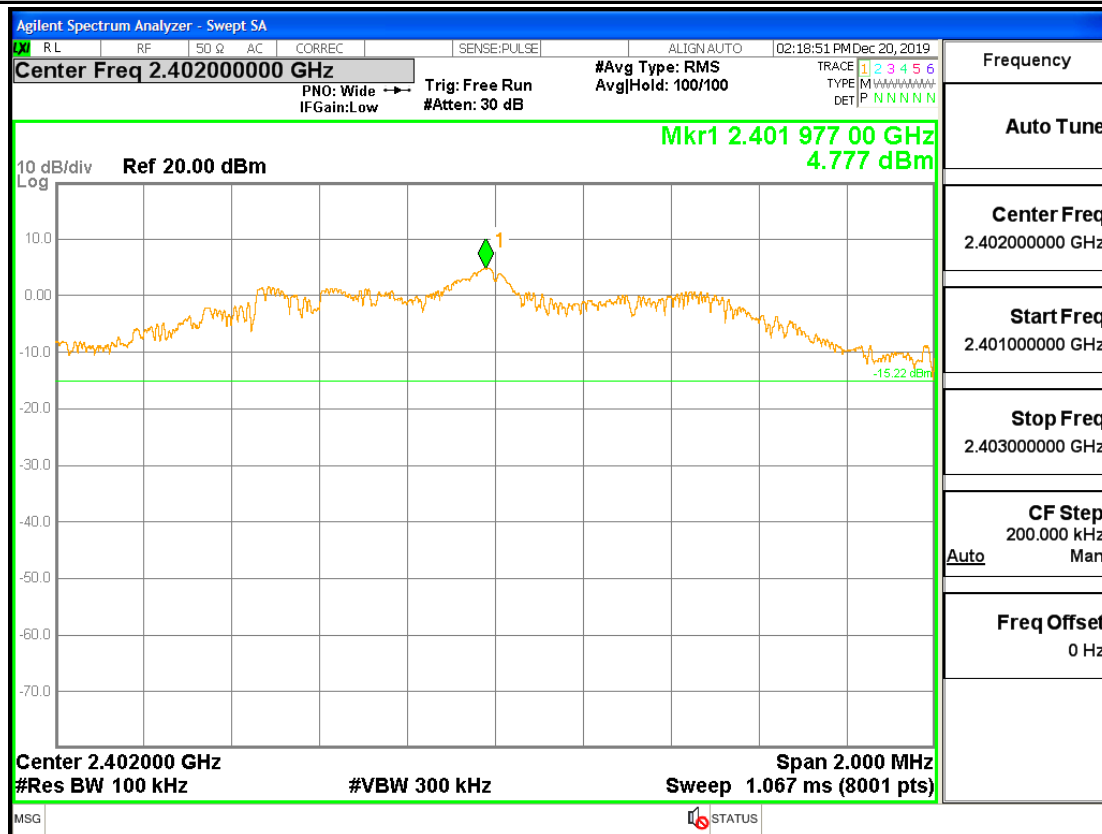


## Band-edge for RF Conducted Emissions\_BLE\_2480\_Ant1

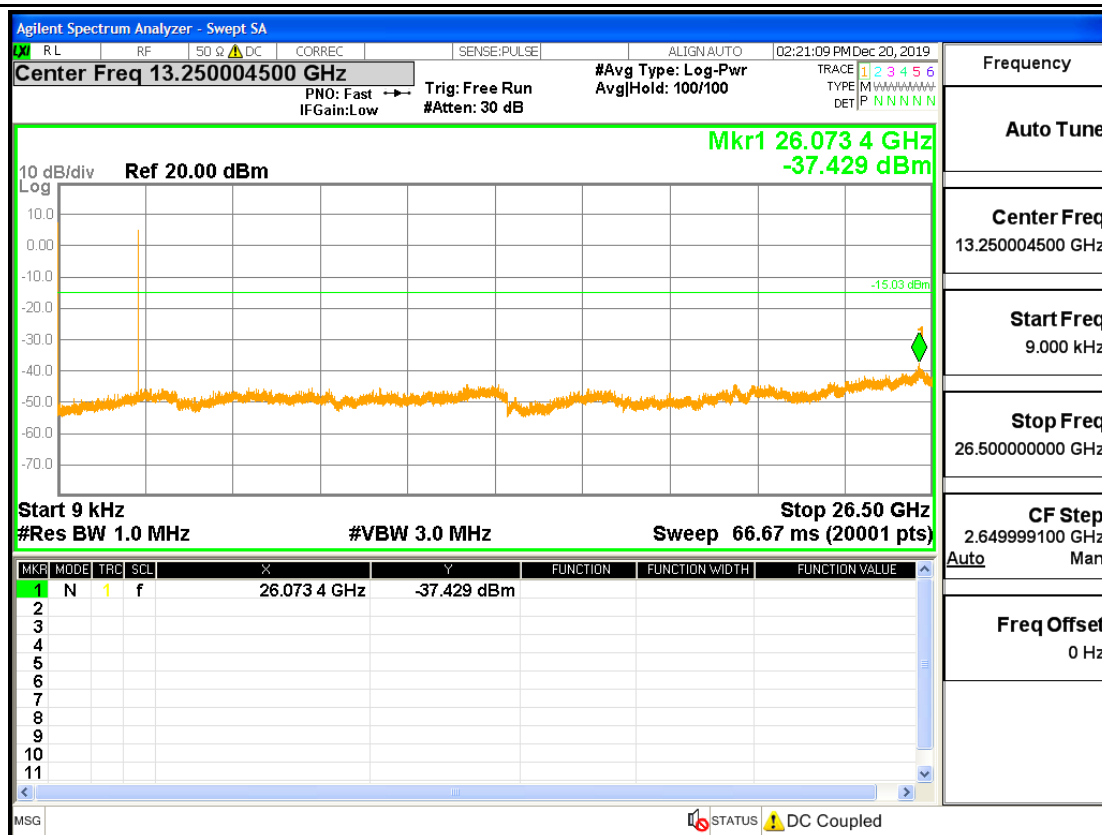
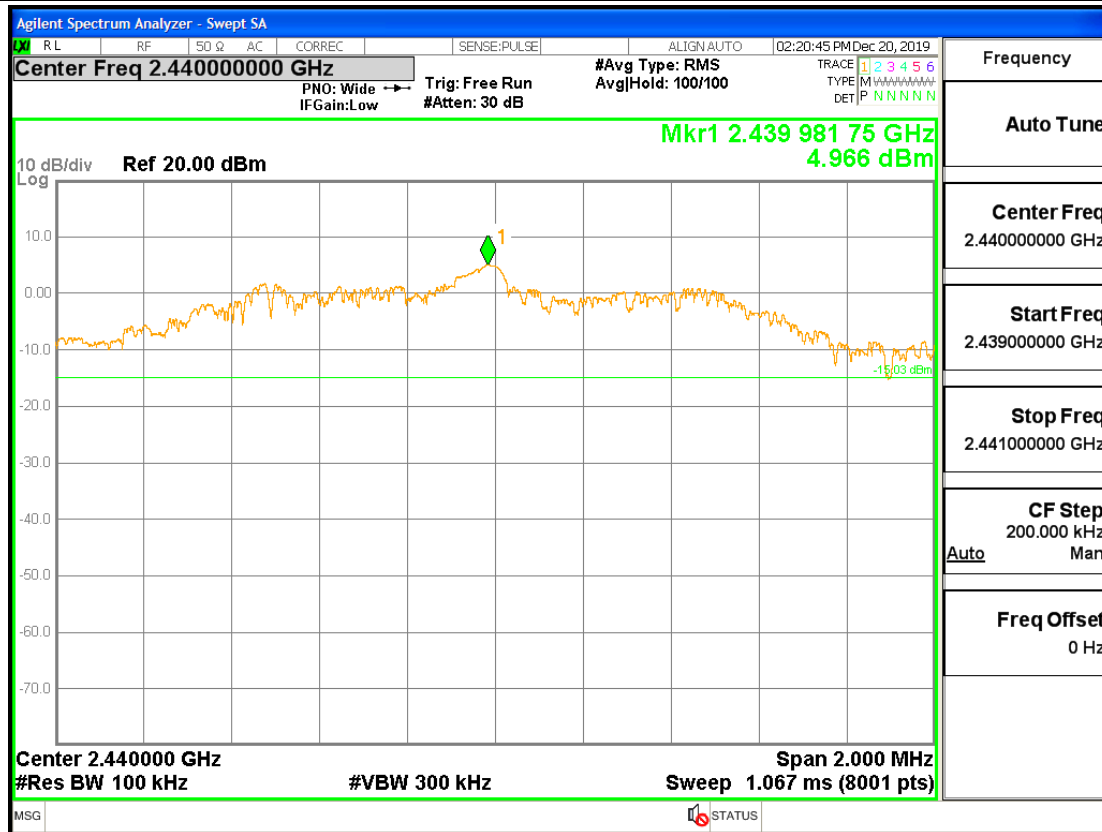


## 6.RF Conducted Spurious Emissions

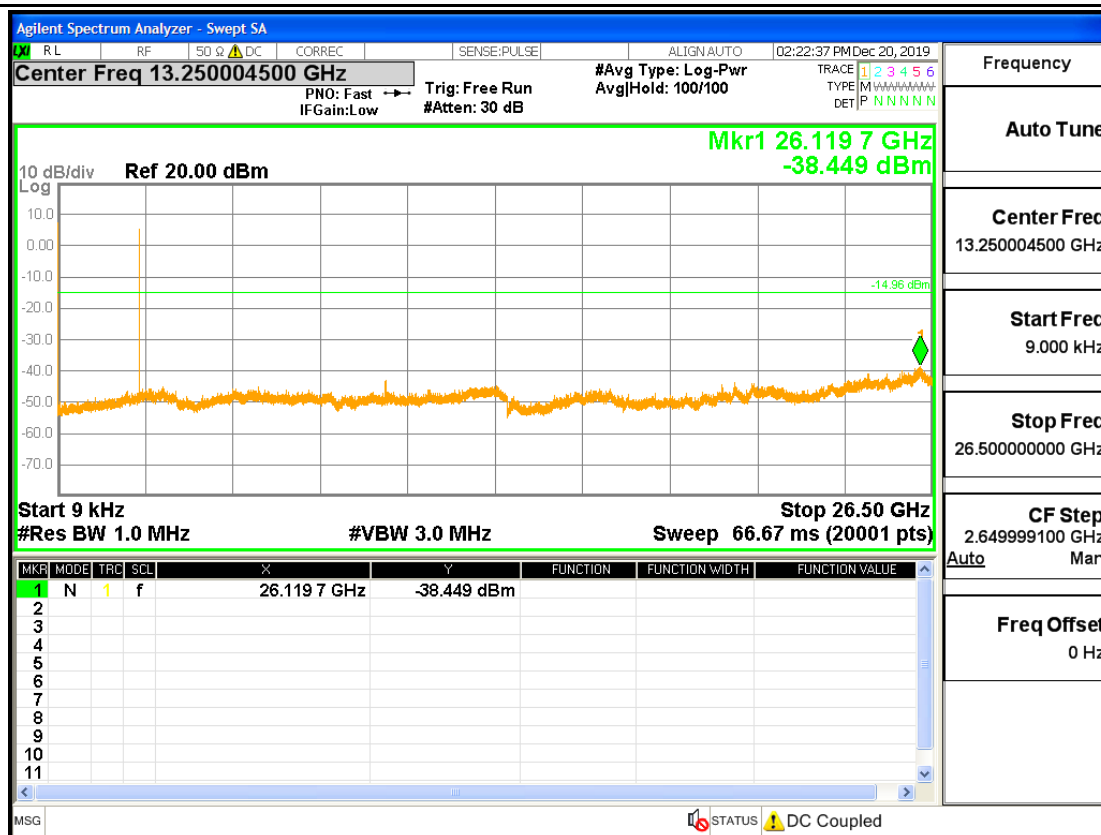
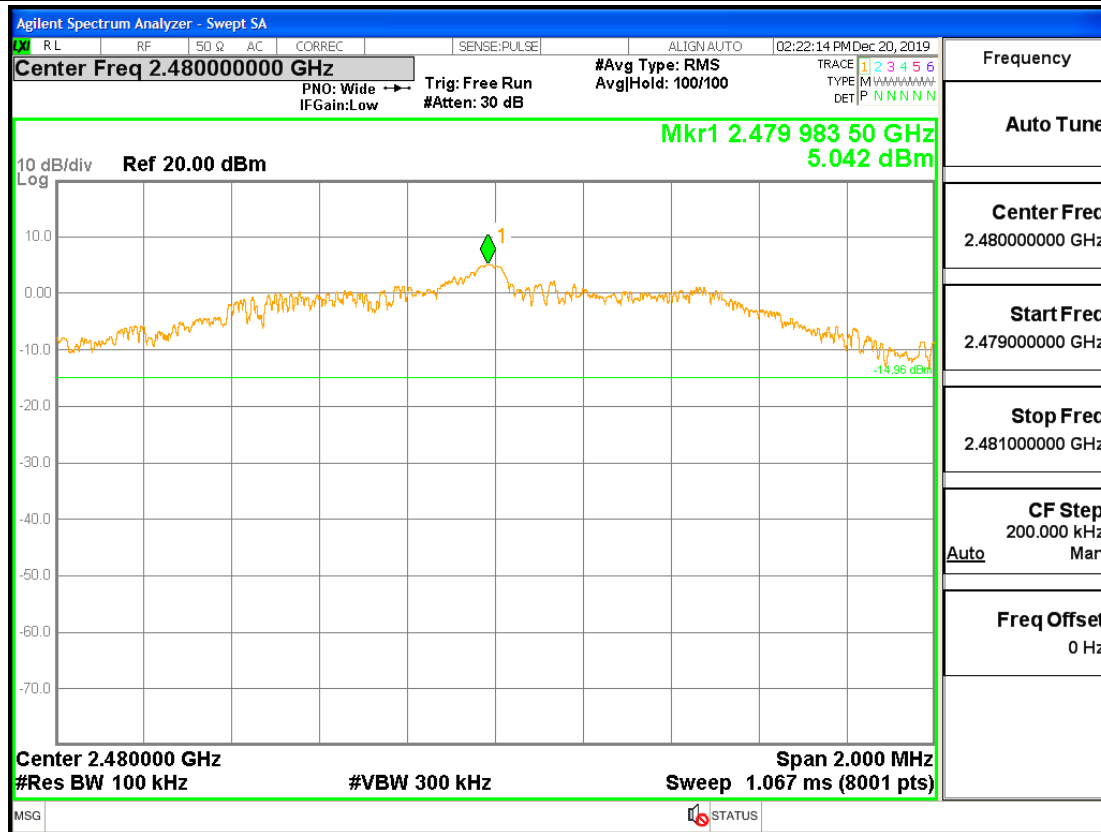
## RF Conducted Spurious Emissions\_BLE\_2402\_Ant1



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



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

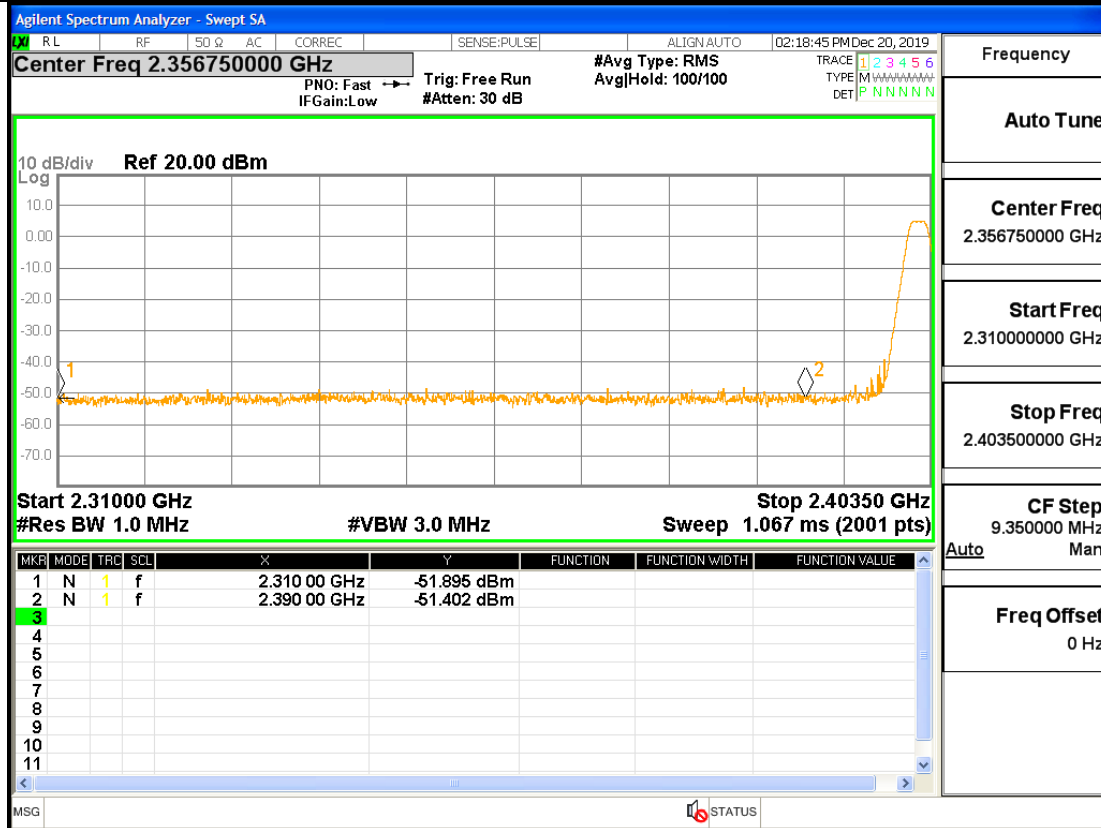


**7.Restrict-band band-edge measurements**

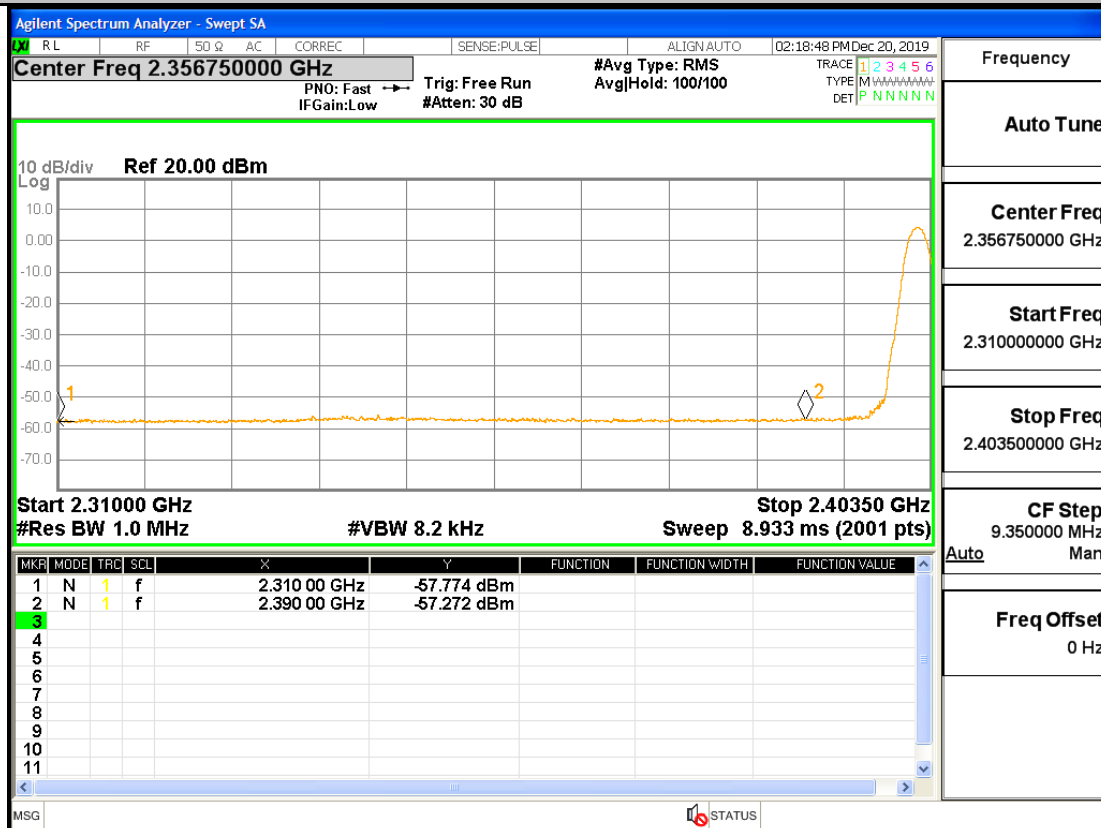
| Type | Carrier Frequency (MHz) | Frequency(MHz) | Gain | Ground Factor | Peak Value(dBm) | E [dBuV/m] | Limit [dBuV/m] | Conclusion |
|------|-------------------------|----------------|------|---------------|-----------------|------------|----------------|------------|
| 1DH5 | 2402                    | 2390           | 2.08 | 0.00          | -51.402         | 45.878     | 74             | Pass       |
| 1DH5 | 2480                    | 2483.746       | 2.08 | 0.00          | -38.774         | 58.506     | 74             | Pass       |

| Type | Carrier Frequency (MHz) | Frequency(MHz) | Gain | Ground Factor | Average Value(dBm) | E [dBuV/m] | Limit [dBuV/m] | Conclusion |
|------|-------------------------|----------------|------|---------------|--------------------|------------|----------------|------------|
| 1DH5 | 2402                    | 2390           | 2.08 | 0.00          | -57.272            | 40.008     | 54             | Pass       |
| 1DH5 | 2480                    | 2483.746       | 2.08 | 0.00          | -46.305            | 50.975     | 54             | Pass       |

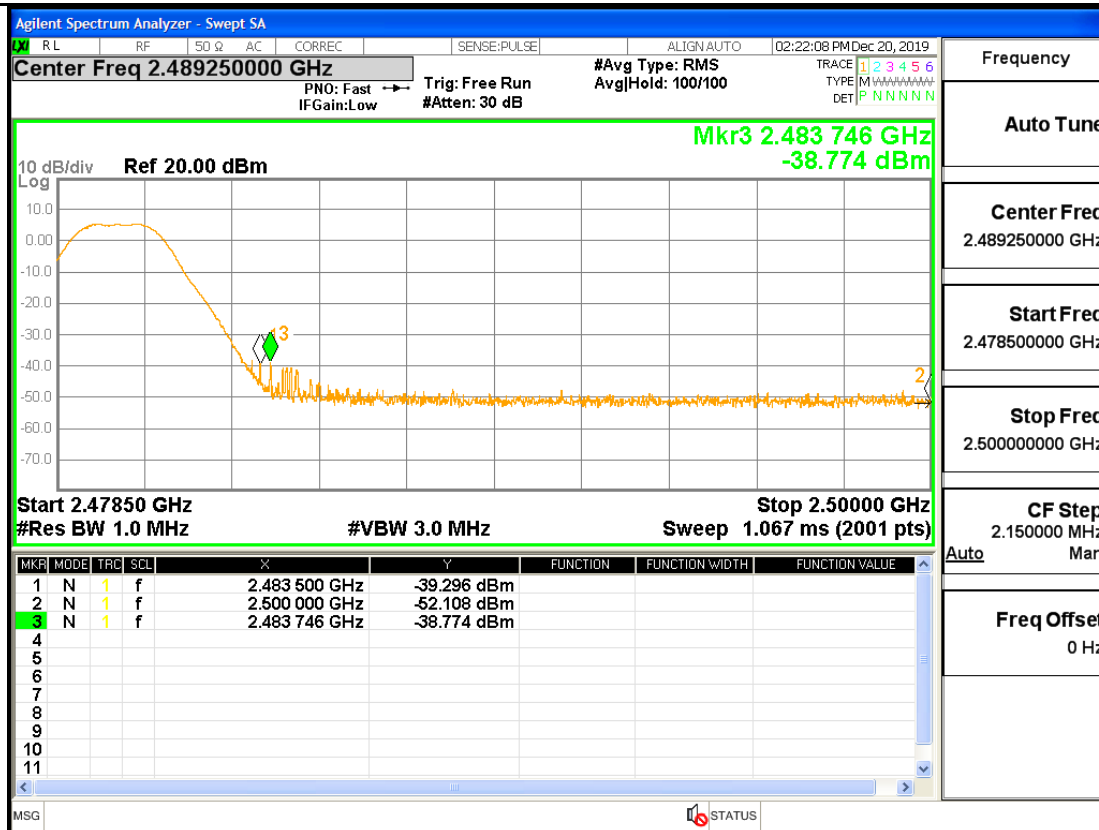
## Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_PEAK



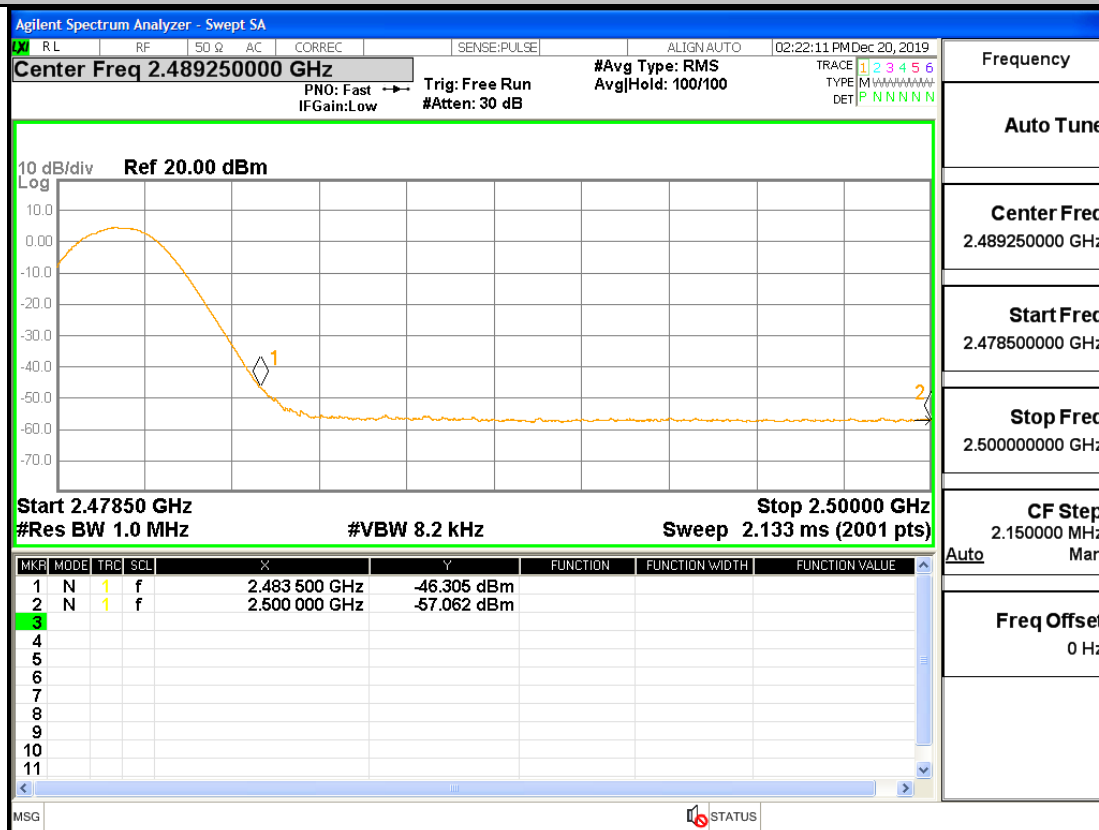
## Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_AV



## 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 | 39.3          | PASS    |

