

## Appendix A

### RF Test Data for BT V4.2 (BDR/EDR) (Conducted Measurement)

Product Name: AR BOW

Trade Mark: N/A

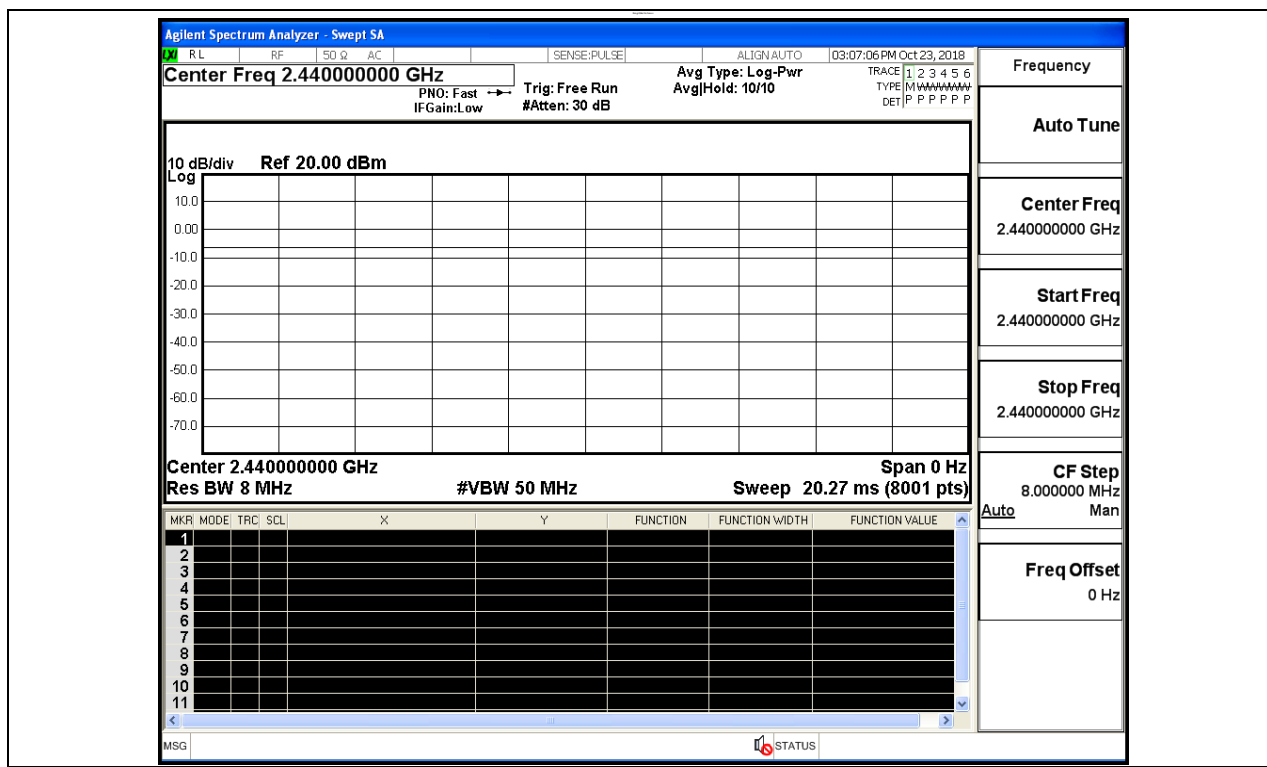
Test Model: BW2

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 23.4 ° C    |
| Relative Humidity: | 53.2%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Mina.Xu     |
| Supervised by:     | Jayden.Zhuo |

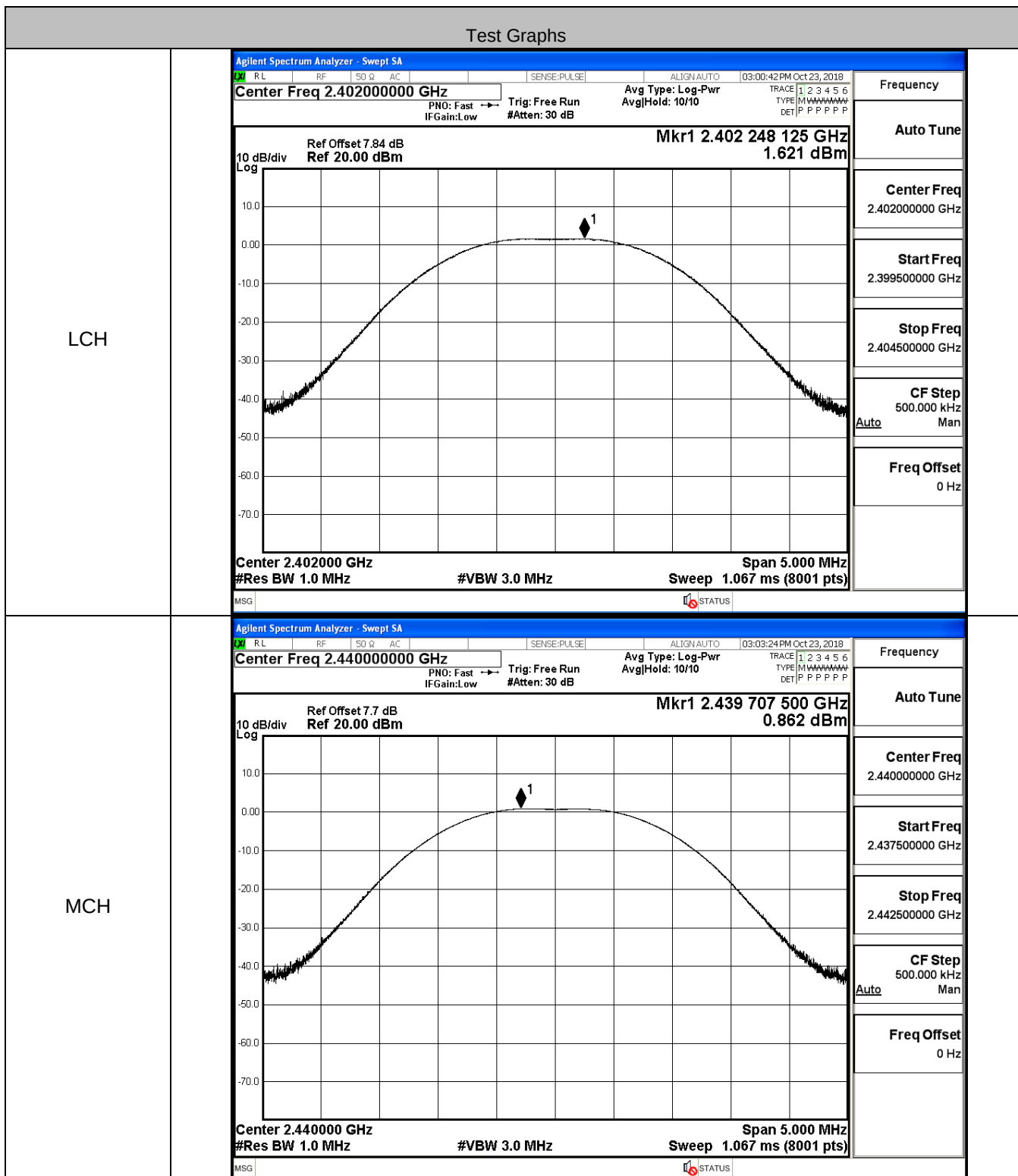
#### A.1 Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| BT LE     | 2440         | Ant1 | 100           | PASS    |

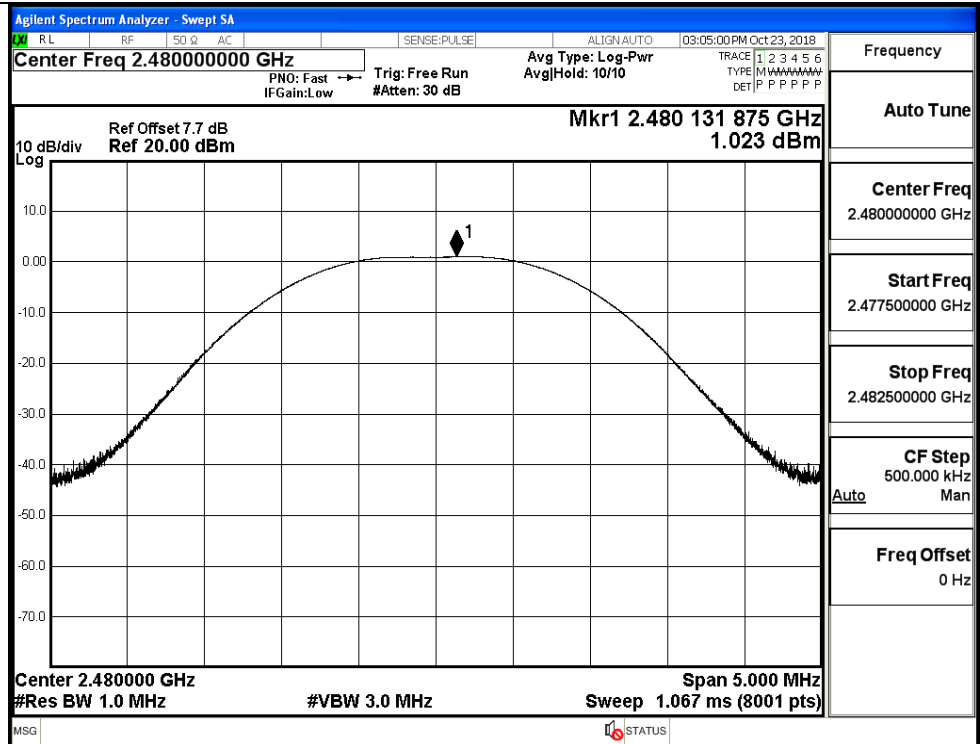


## A.2 Maximum Conducted Peak Output Power

| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | 1.621                   | 30          | PASS    |
| BT LE | MCH     | 0.862                   | 30          | PASS    |
| BT LE | HCH     | 1.023                   | 30          | PASS    |



HCH

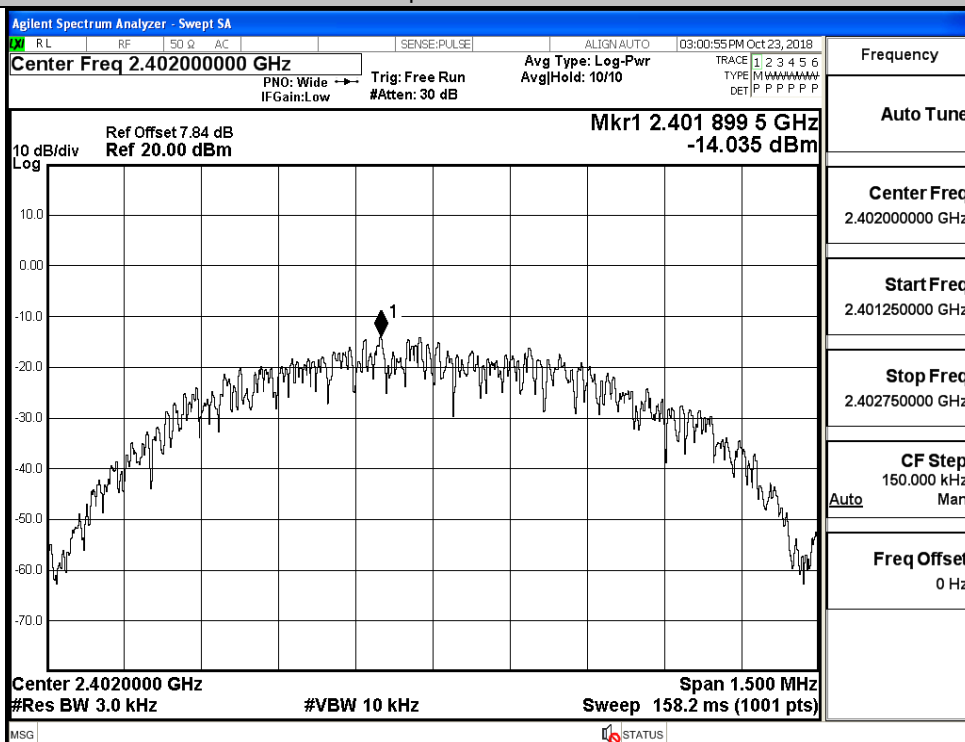


### A.3 Maximum Power Spectral Density

| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -14.035        | 8                | PASS    |
| BT LE | MCH     | -14.559        | 8                | PASS    |
| BT LE | HCH     | -14.090        | 8                | PASS    |

#### Test Graphs

LCH

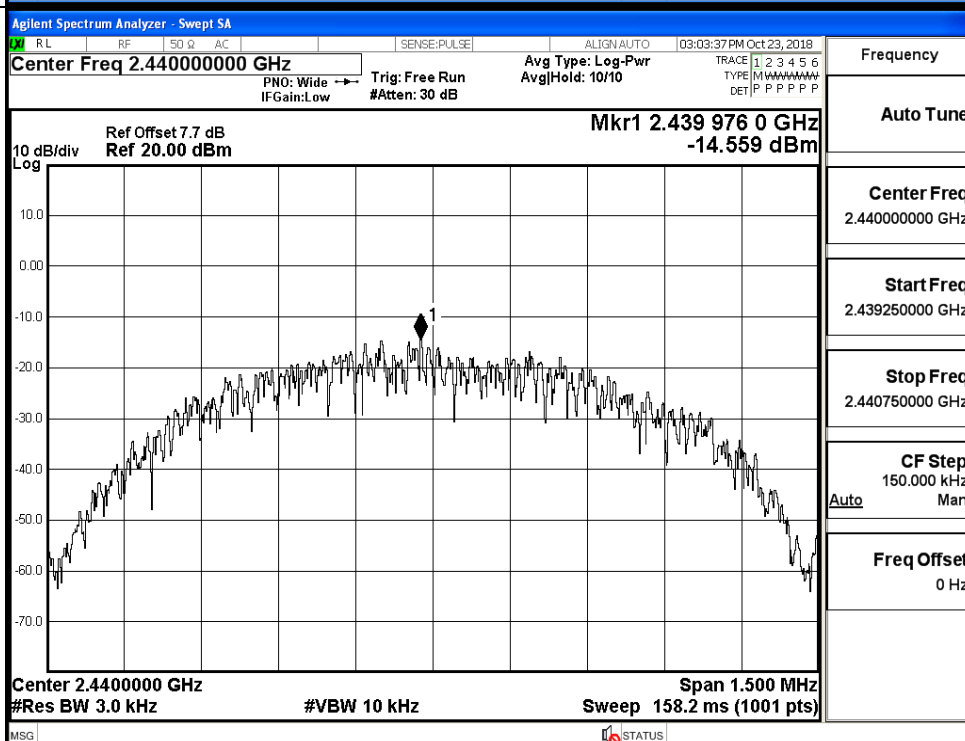


Frequency

Auto Tune

Center Freq  
2.402000000 GHzStart Freq  
2.401250000 GHzStop Freq  
2.402750000 GHzCF Step  
150.000 kHz  
Auto ManFreq Offset  
0 Hz

MCH

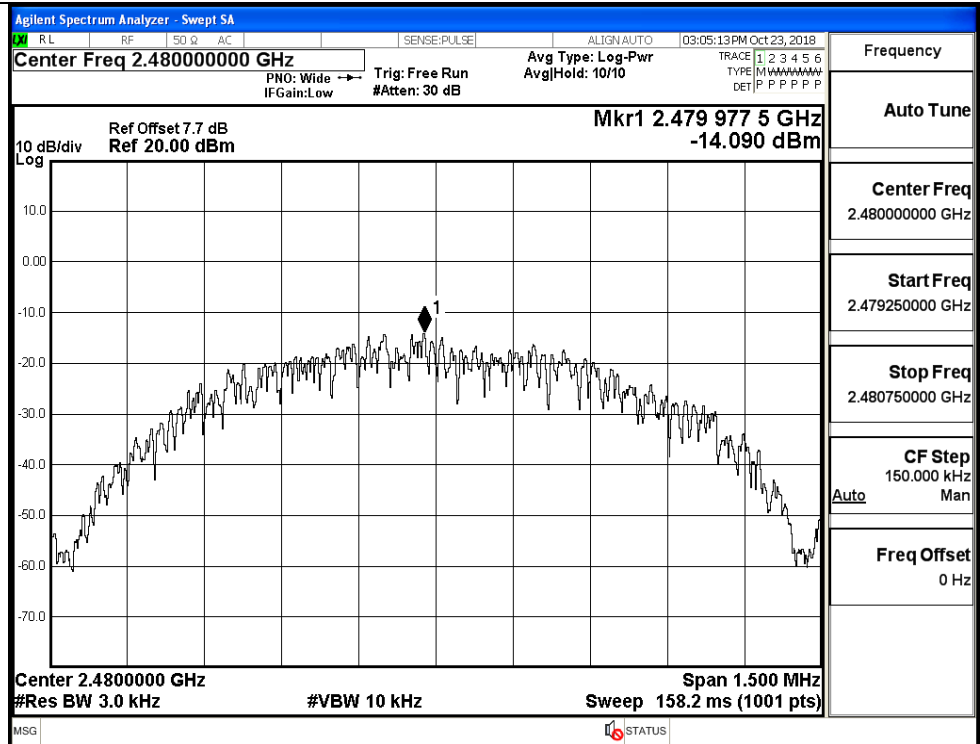


Frequency

Auto Tune

Center Freq  
2.440000000 GHzStart Freq  
2.439250000 GHzStop Freq  
2.440750000 GHzCF Step  
150.000 kHz  
Auto ManFreq Offset  
0 Hz

HCH

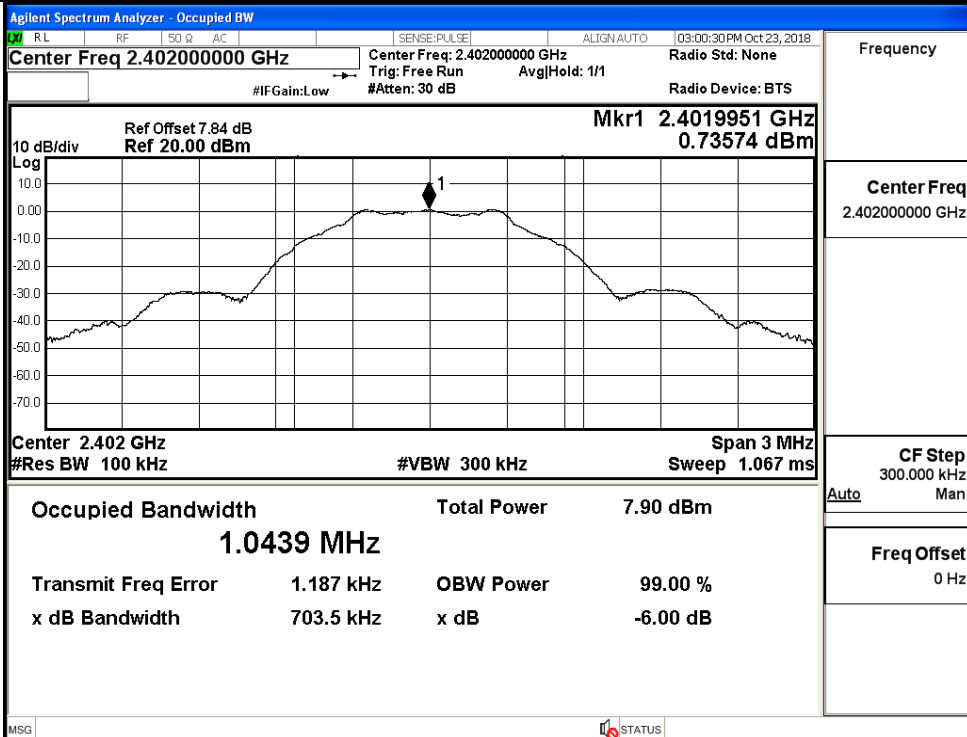


## A.4 6dB Bandwidth

| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.7035              | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.7104              | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.7004              | $\geq 0.5$  | PASS    |

## Test Graphs

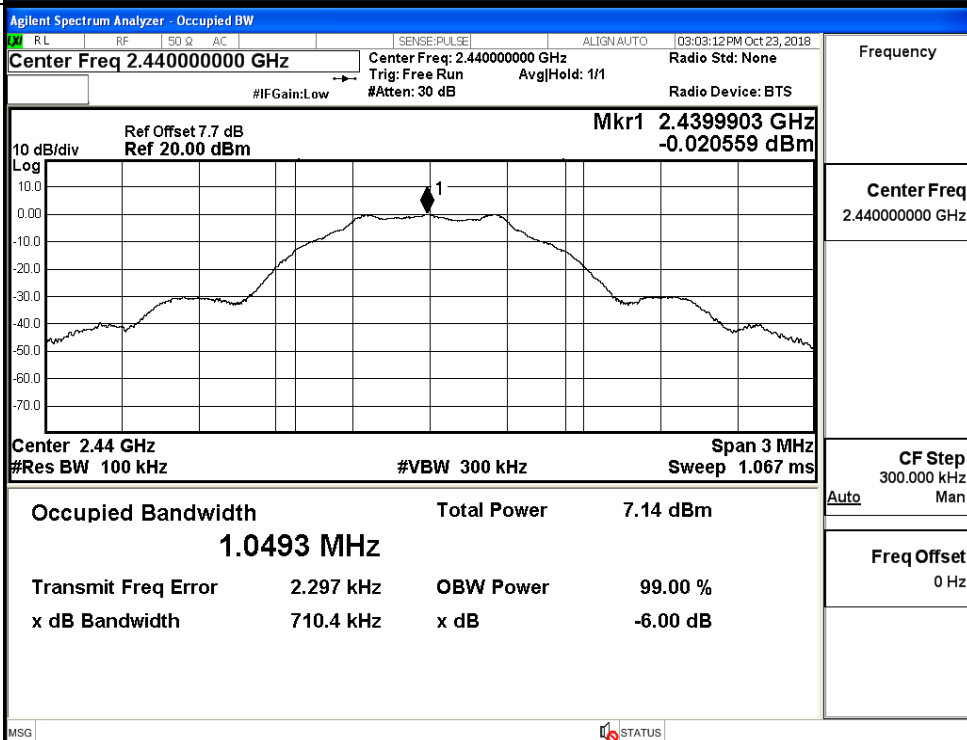
LCH



Frequency

Center Freq  
2.402000000 GHzCF Step  
300.000 kHz  
Auto ManFreq Offset  
0 Hz

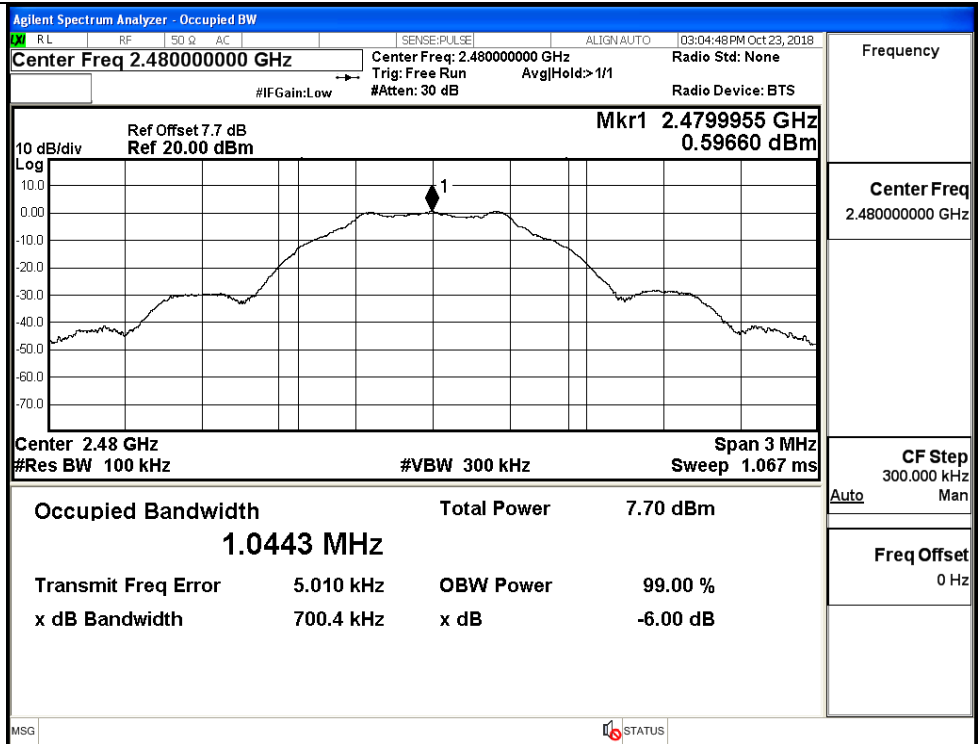
MCH



Frequency

Center Freq  
2.440000000 GHzCF Step  
300.000 kHz  
Auto ManFreq Offset  
0 Hz

HCH

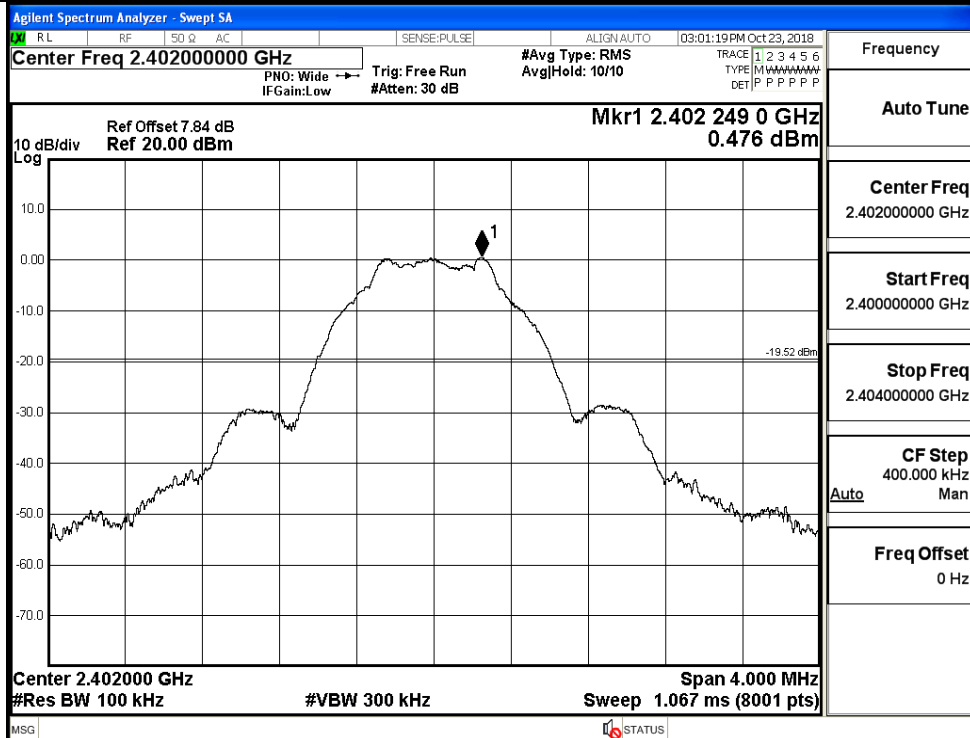


**A.5 RF Conducted Spurious Emissions**

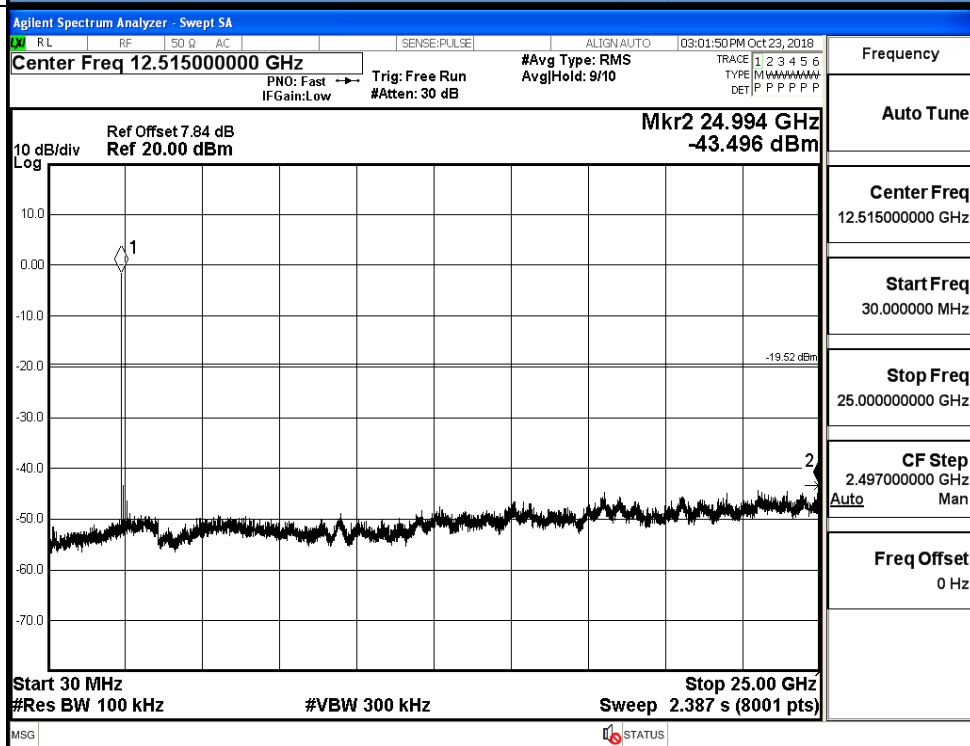
| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | 0.476      | -43.496          | -19.524     | PASS    |
| BT LE | MCH     | 0.019      | -44.367          | -19.981     | PASS    |
| BT LE | HCH     | 0.608      | -44.891          | -19.392     | PASS    |

## BT LE LCH Graphs

Pref/BT LE/LCH

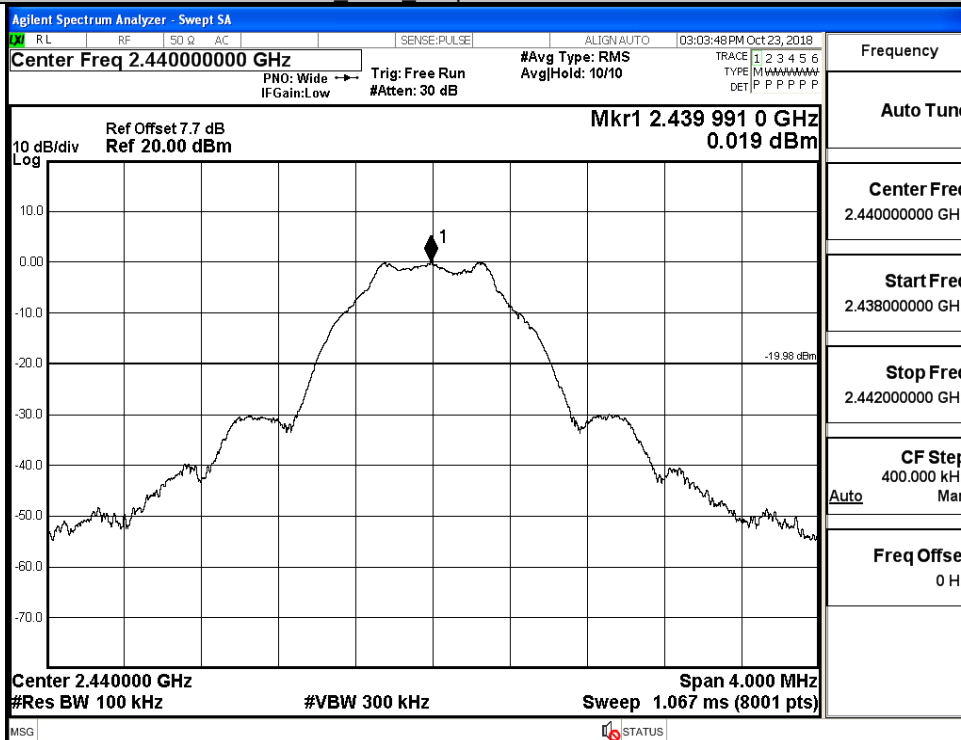


Puw/BT LE/LCH

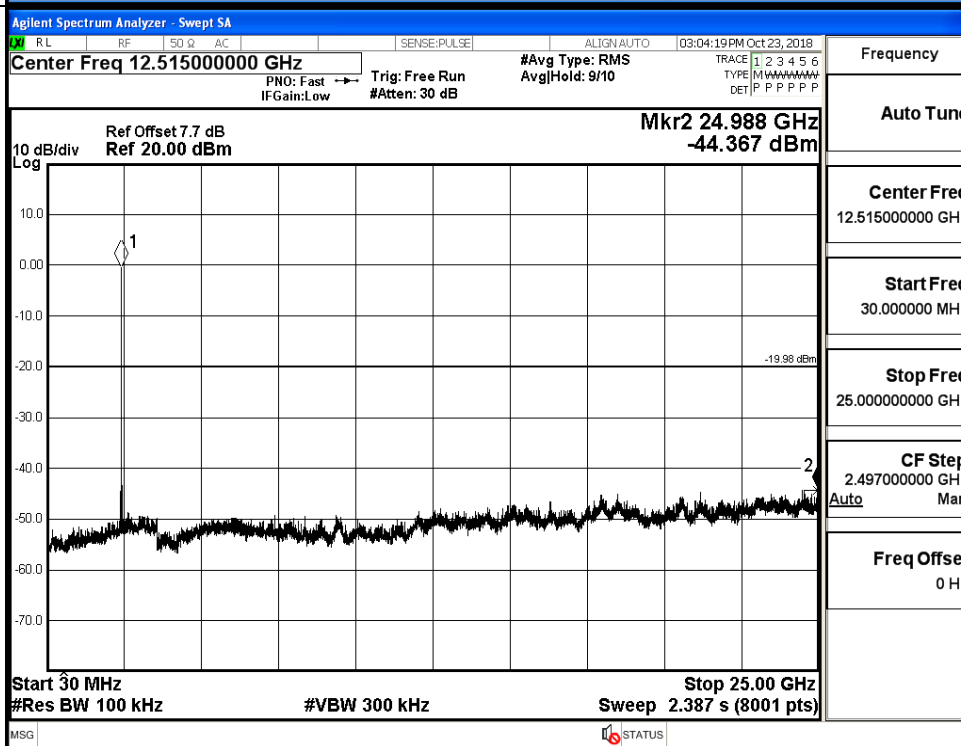


## BT LE MCH Graphs

Pref/BT LE/MCH

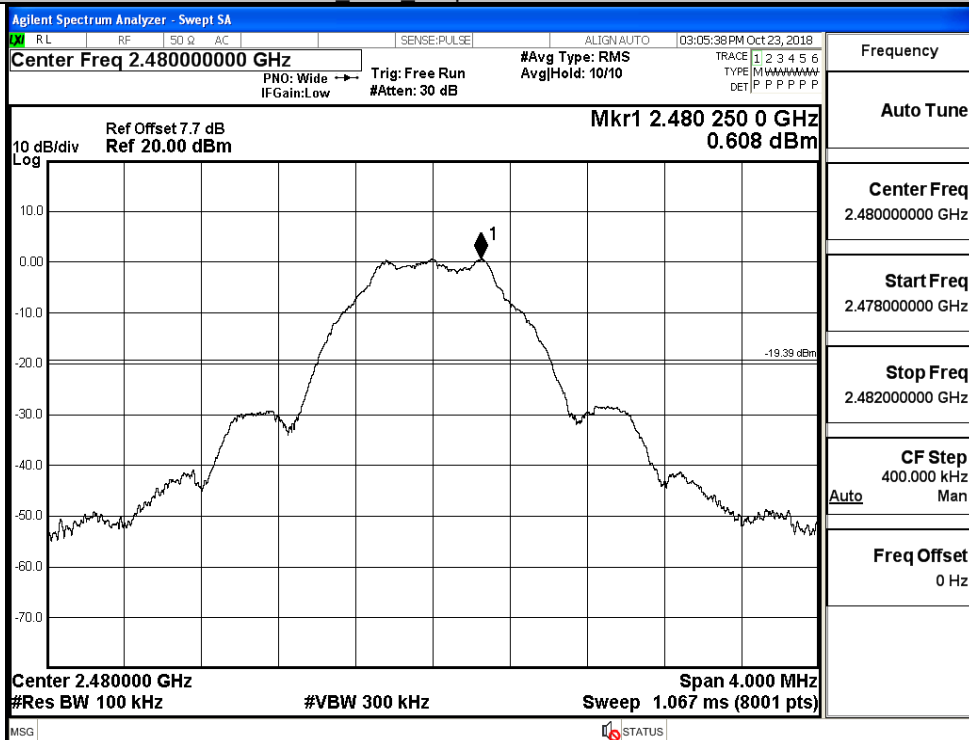


Puw/BT LE/MCH

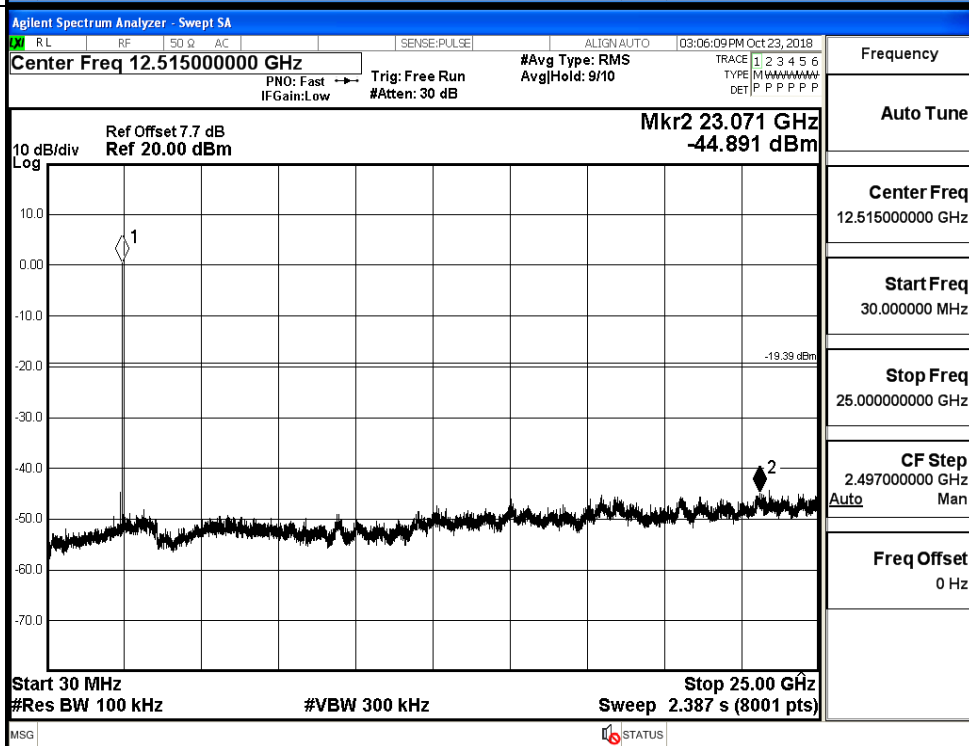


## BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

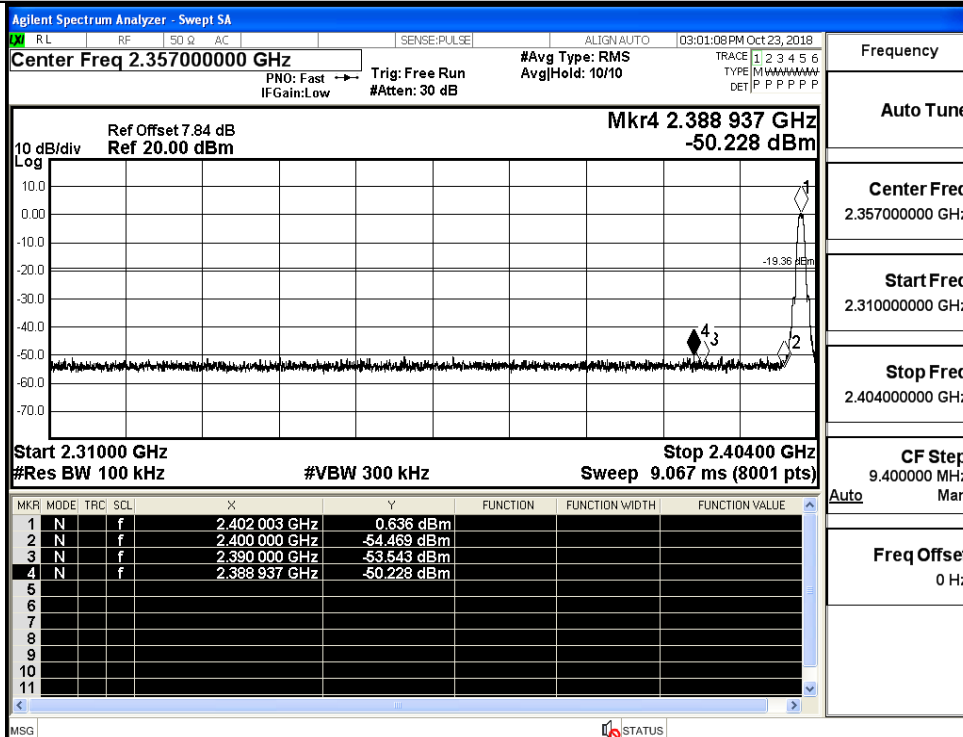


## A.6 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | 0.636              | -50.228                  | -19.36      | PASS    |
| BT LE | HCH     | 0.825              | -50.420                  | -19.18      | PASS    |

## Test Graphs

LCH



Frequency

Auto Tune

Center Freq  
2.357000000 GHz

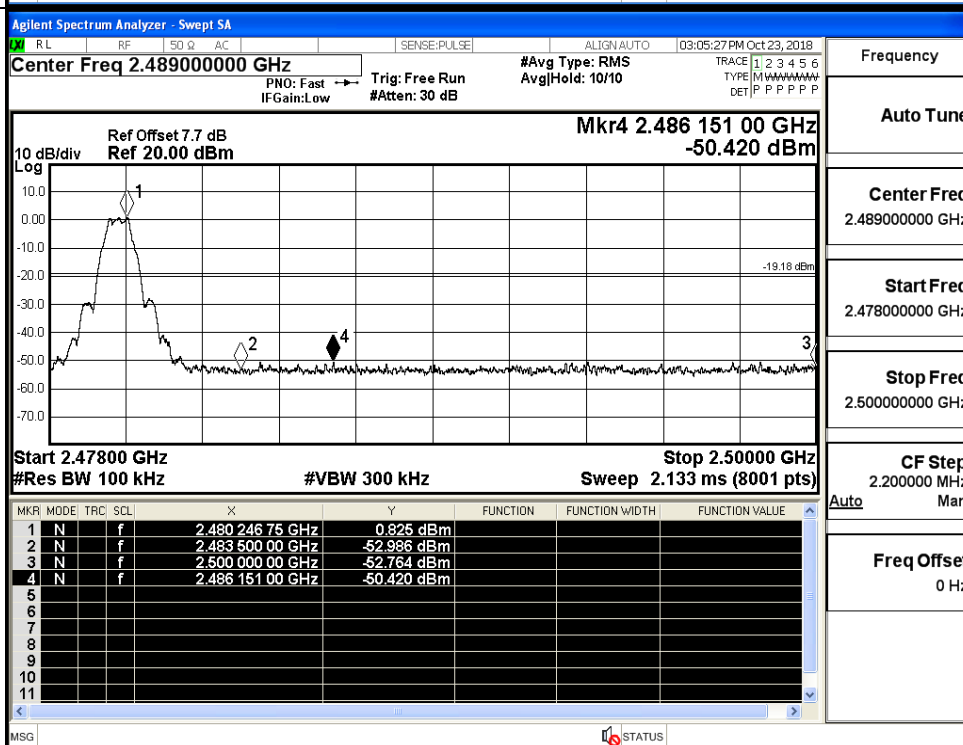
Start Freq  
2.310000000 GHz

Stop Freq  
2.404000000 GHz

CF Step  
9.400000 MHz

Freq Offset  
0 Hz

HCH



Frequency

Auto Tune

Center Freq  
2.489000000 GHz

Start Freq  
2.478000000 GHz

Stop Freq  
2.500000000 GHz

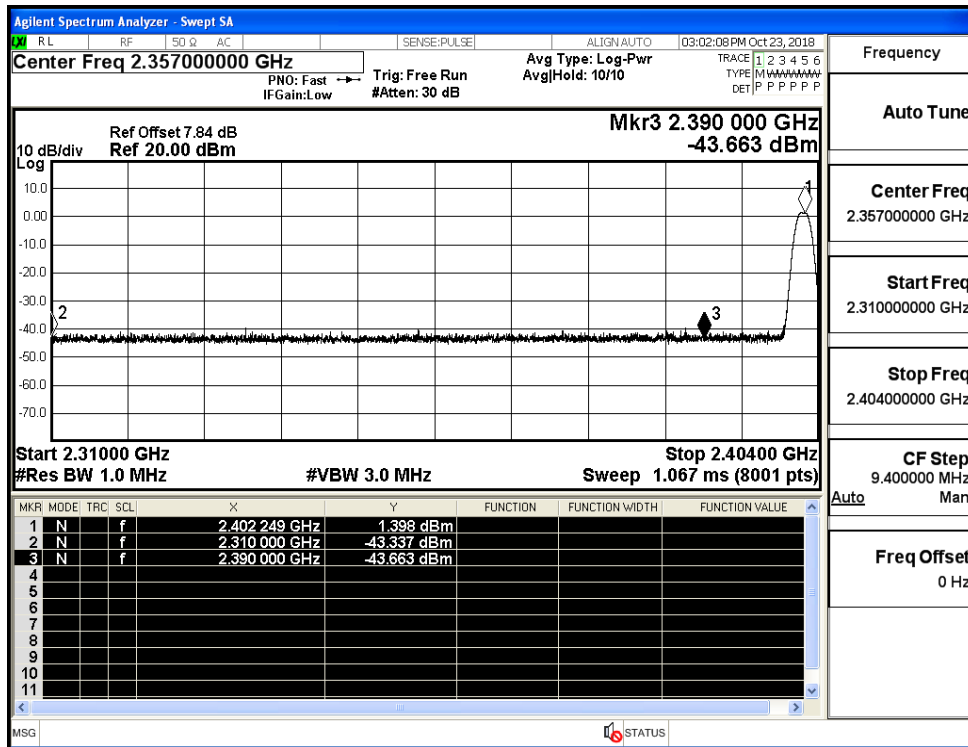
CF Step  
2.200000 MHz

Freq Offset  
0 Hz

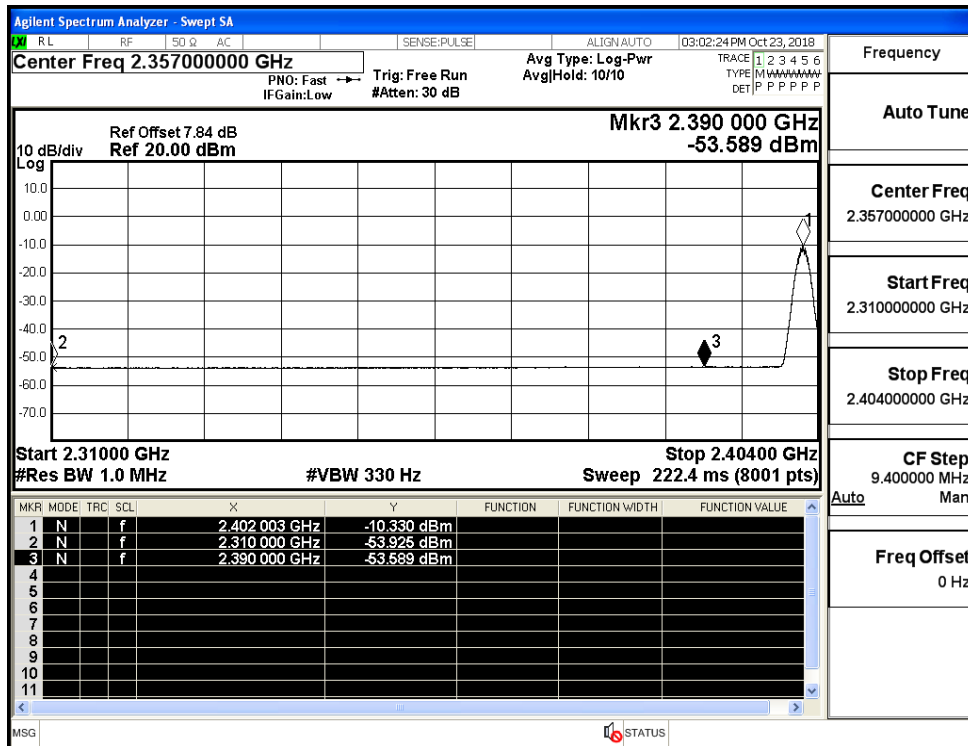
**A.7 Restrict-band band-edge measurements**

| Test Mode | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdi |
|-----------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|-------|
| BT LE     | 2402         | Ant1 | 2310.0 | -43.34      | 2.0  | 0             | 53.92      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -53.93      | 2.0  | 0             | 43.33      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -43.66      | 2.0  | 0             | 53.59      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -53.59      | 2.0  | 0             | 43.67      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -43.71      | 2.0  | 0             | 53.55      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -53.41      | 2.0  | 0             | 43.85      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -43.57      | 2.0  | 0             | 53.69      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -53.32      | 2.0  | 0             | 43.94      | AV       | 54             | PASS  |

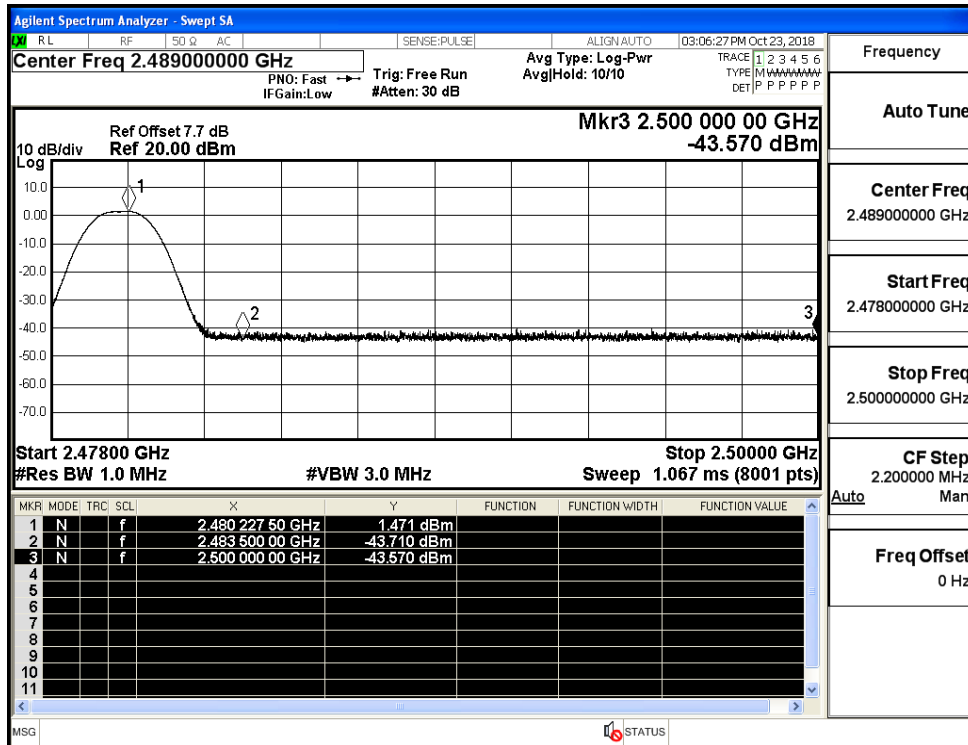
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



## Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



## Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV

