

## Appendix B

### RF Test Data for BT V5(BDR/EDR) (Conducted Measurement)

Product Name: Wrist ECG Monitor

Trade Mark: LEPU

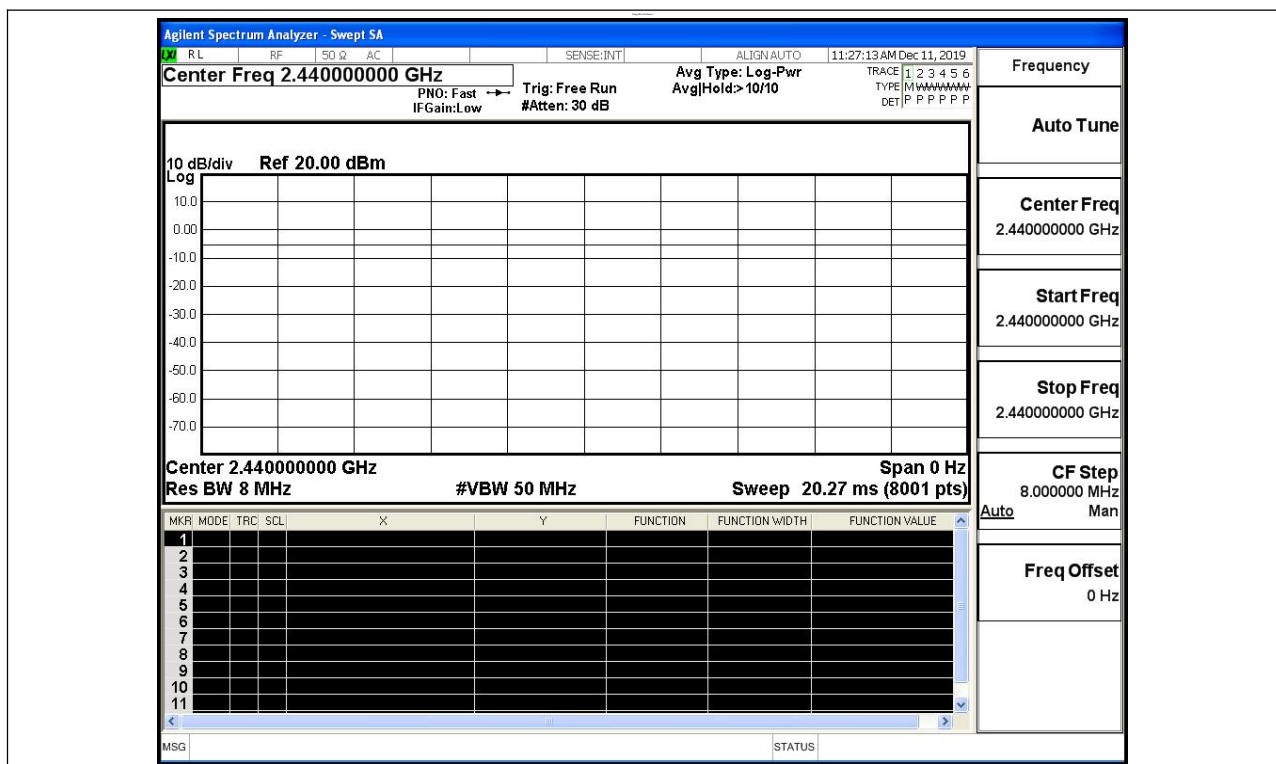
Test Model: LPRE004

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 22.5 ° C    |
| Relative Humidity: | 52.6%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Scout Wu    |
| Supervised by:     | Wang Chuang |

#### B.1 Duty Cycle

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

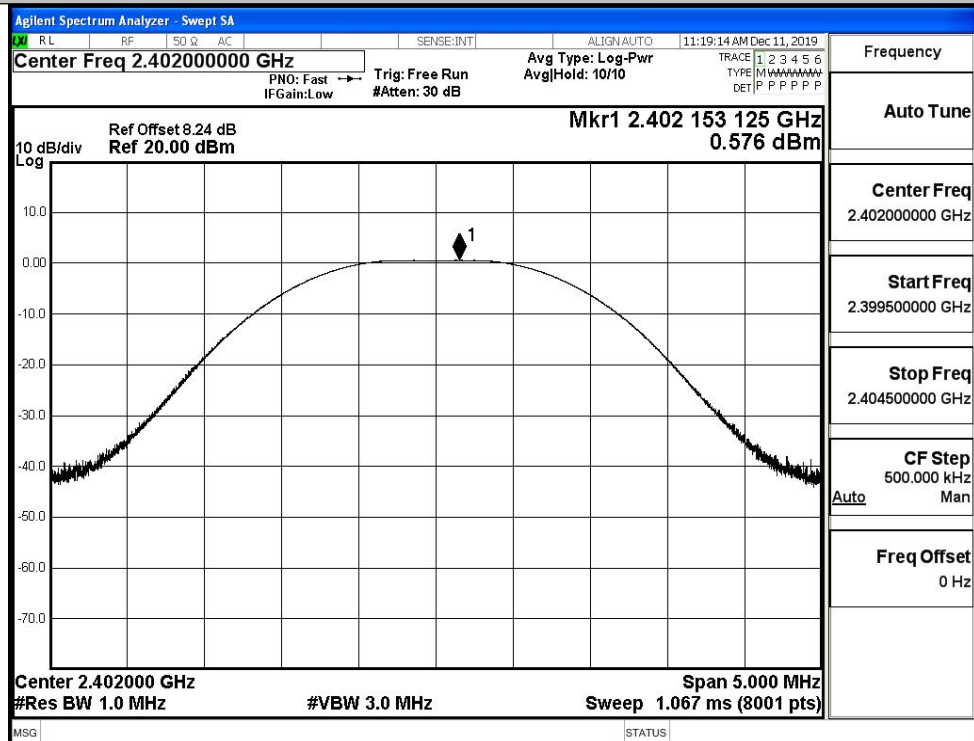


**B.2 Maximum Conducted Peak Output Power**

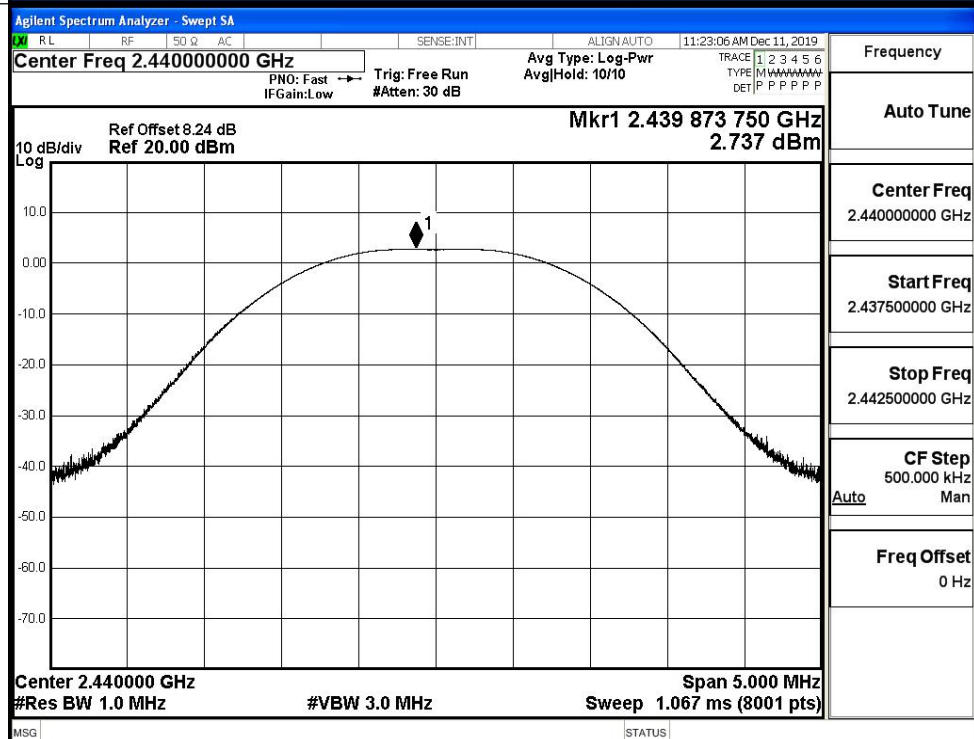
| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | 0.576                   | 30          | PASS    |
| BT LE | MCH     | 2.737                   | 30          | PASS    |
| BT LE | HCH     | 2.345                   | 30          | PASS    |

Test Graphs

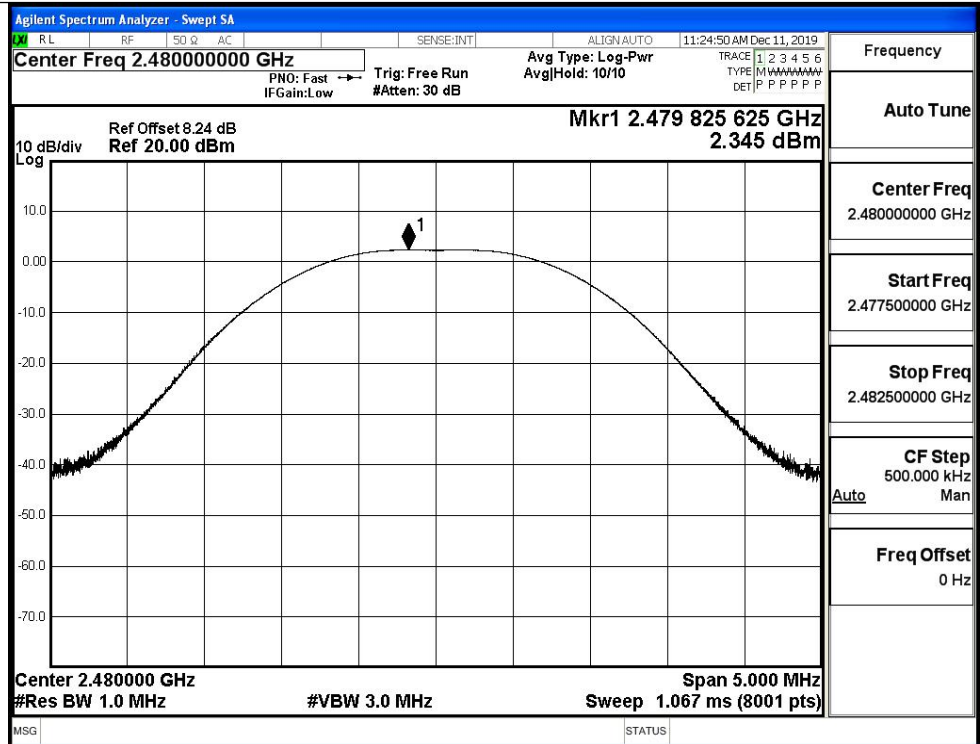
LCH



MCH



HCH

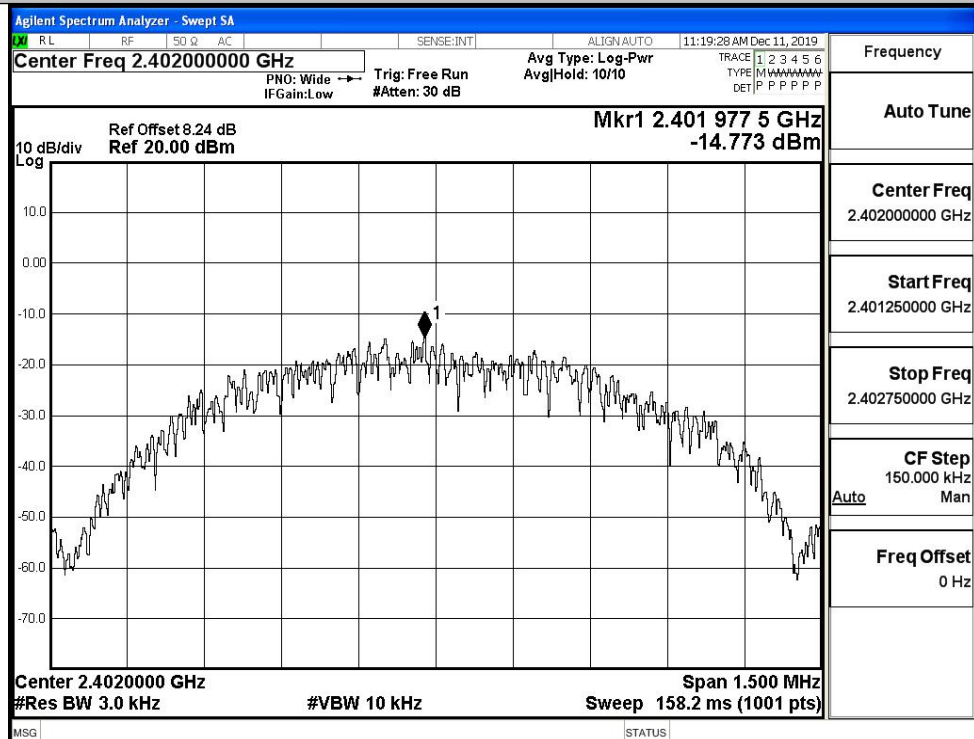


### B.3 Maximum Power Spectral Density

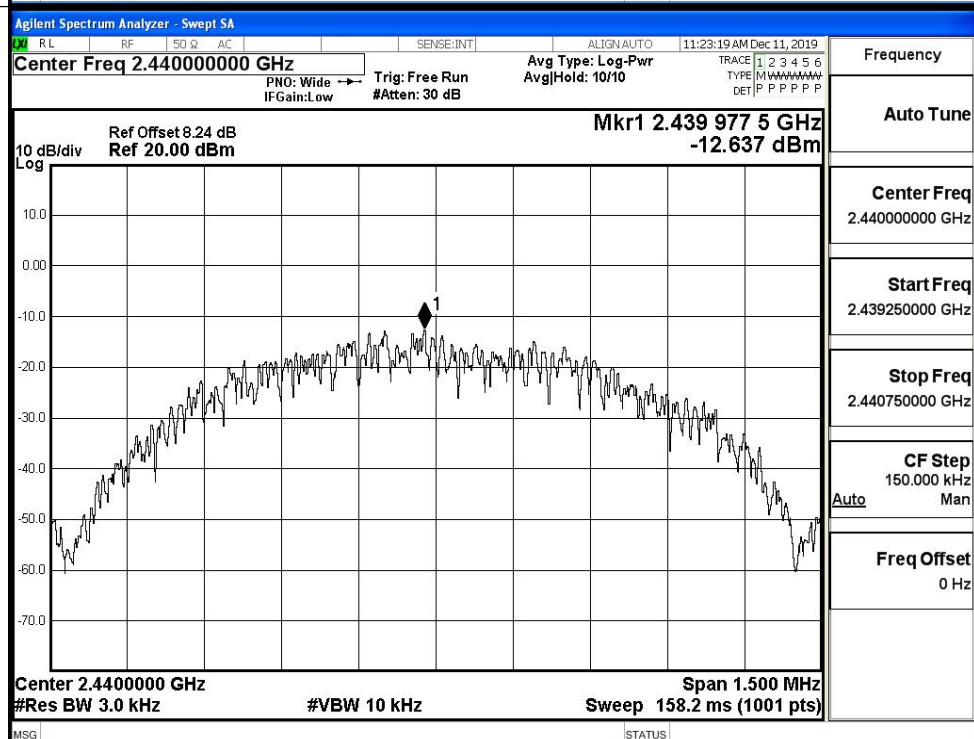
| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -14.773        | 8                | PASS    |
| BT LE | MCH     | -12.637        | 8                | PASS    |
| BT LE | HCH     | -13.023        | 8                | PASS    |

Test Graphs

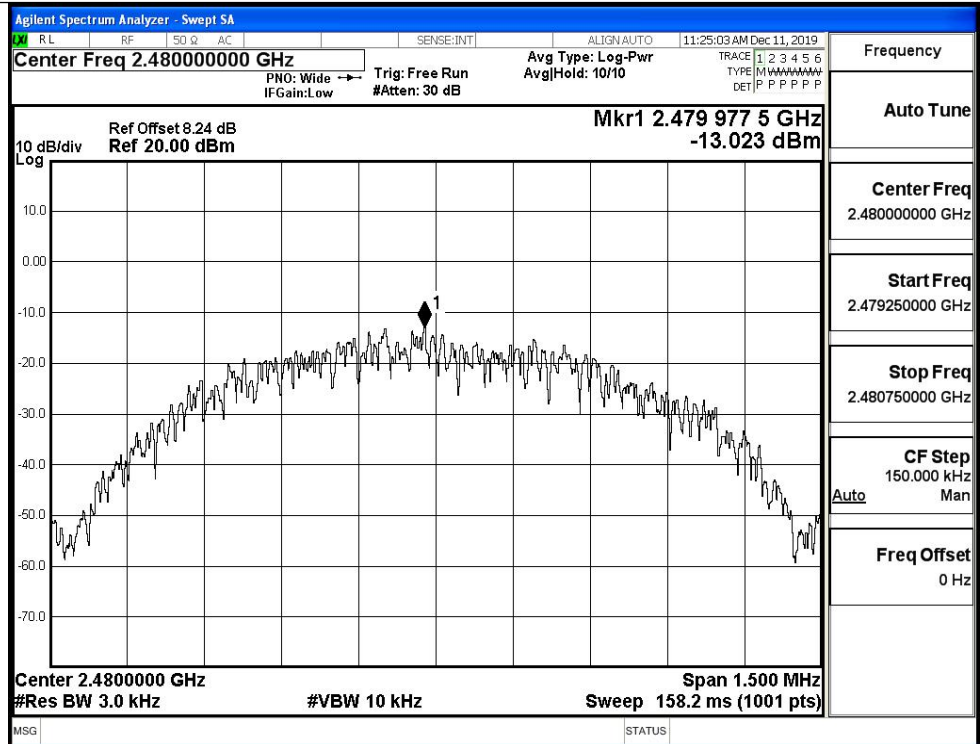
LCH



MCH



HCH

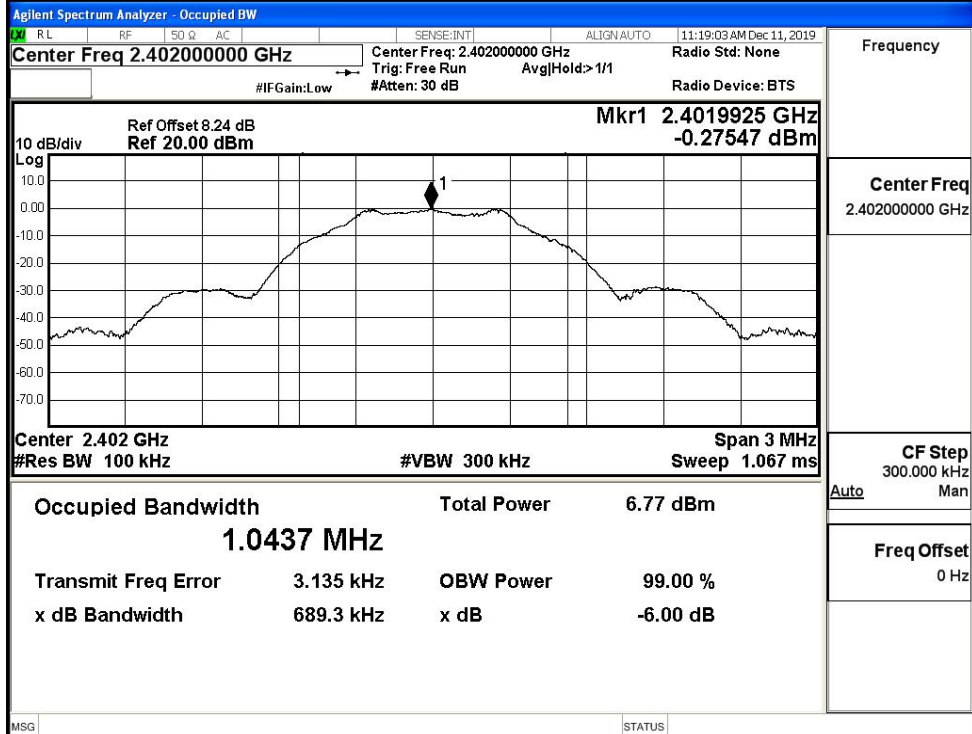


## B.4 6dB Bandwidth

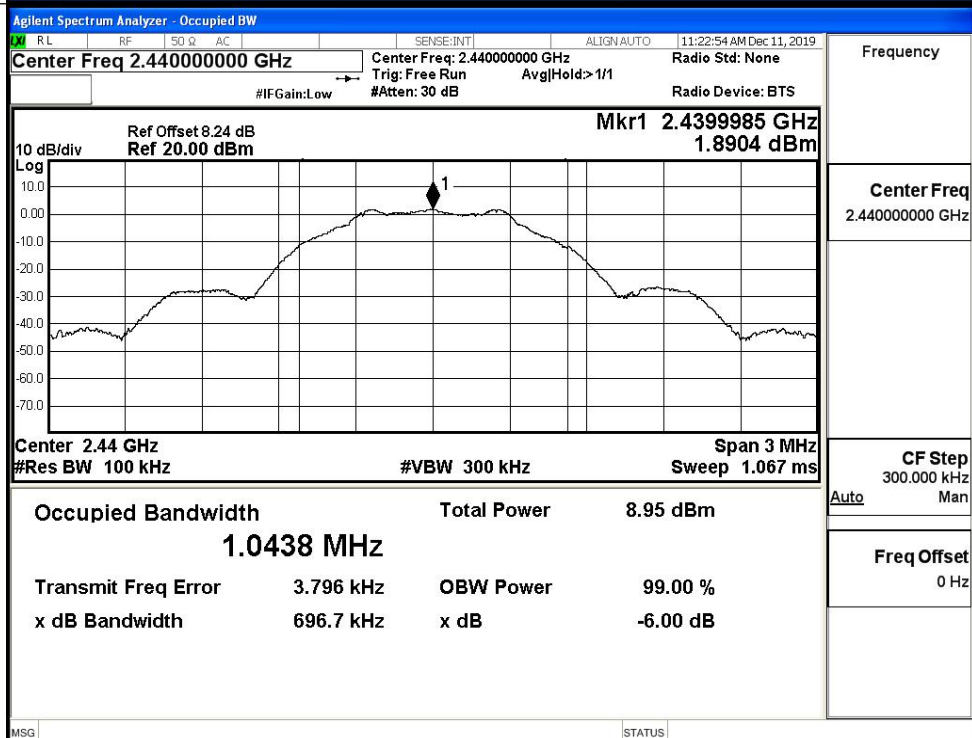
| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.6893              | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.6967              | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.6934              | $\geq 0.5$  | PASS    |

## Test Graphs

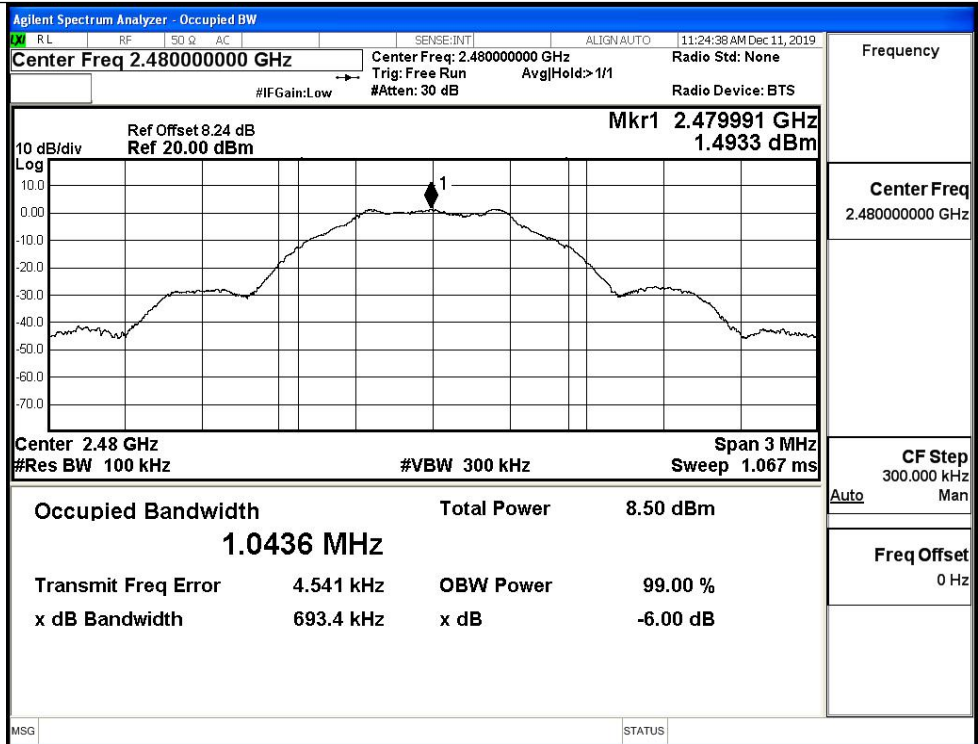
LCH



MCH



HCH

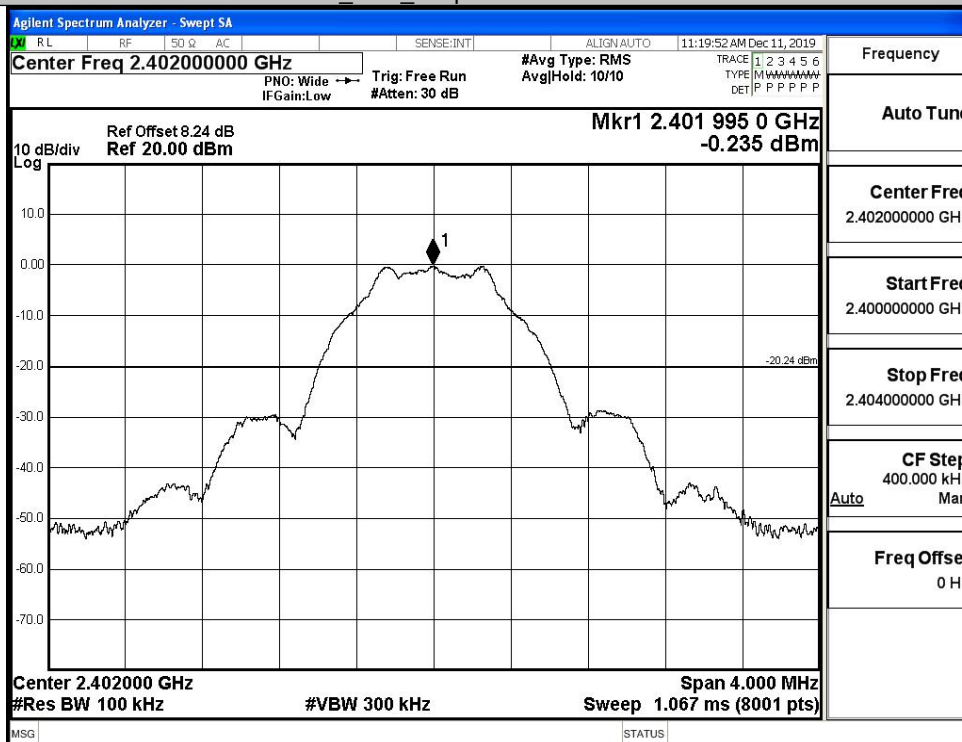


## B.5 RF Conducted Spurious Emissions

| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | -0.235     | -36.857          | -20.235     | PASS    |
| BT LE | MCH     | 1.916      | -36.233          | -18.084     | PASS    |
| BT LE | HCH     | 1.505      | -36.164          | -18.495     | PASS    |

BT LE\_LCH\_Graphs

Pref/BT LE/LCH



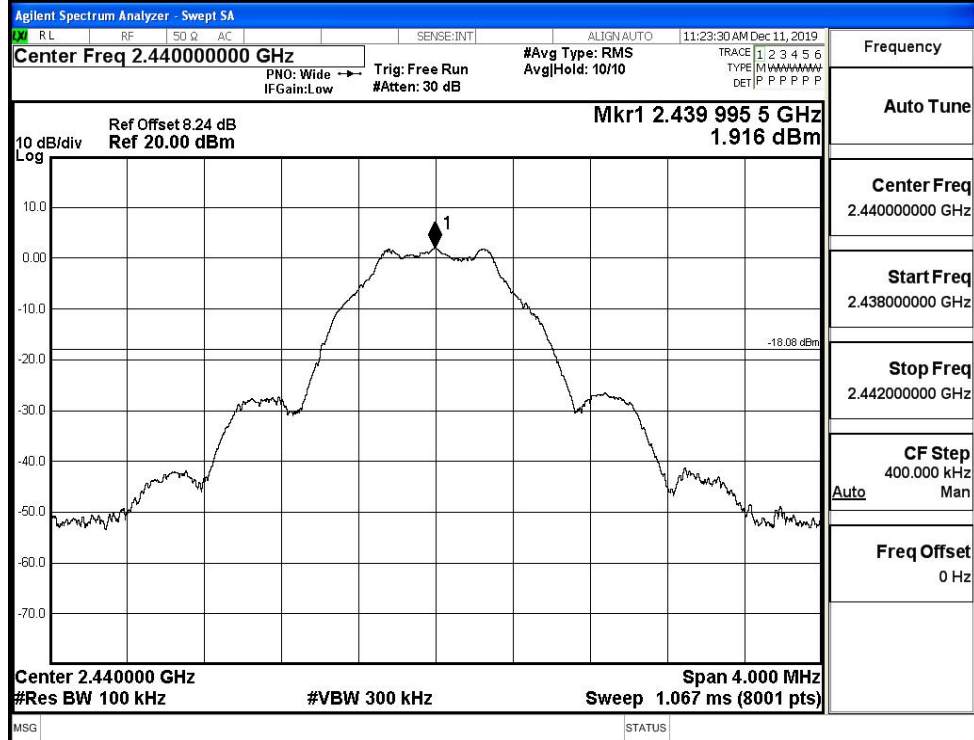
Puw/BT LE/LCH



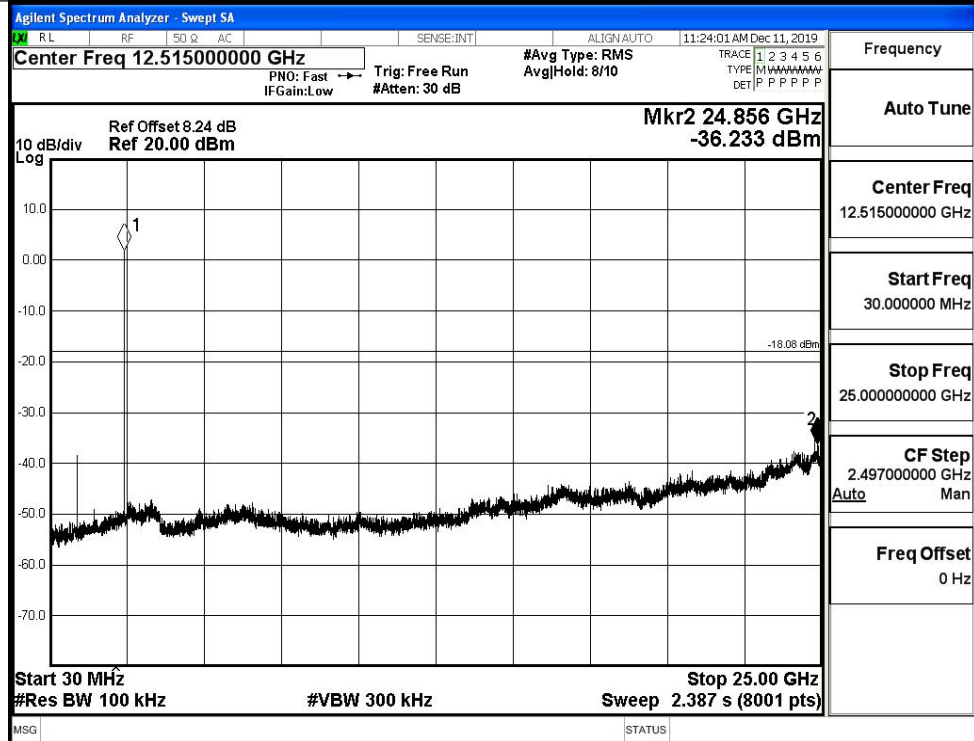


## BT LE MCH Graphs

Pref/BT LE/MCH

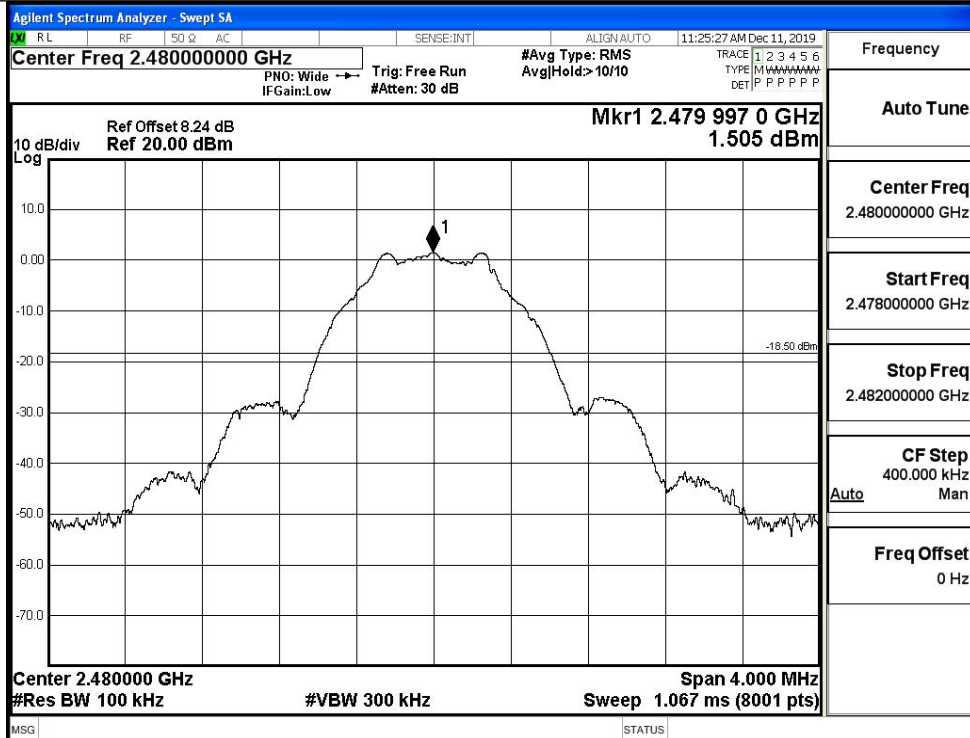


Puw/BT LE/MCH

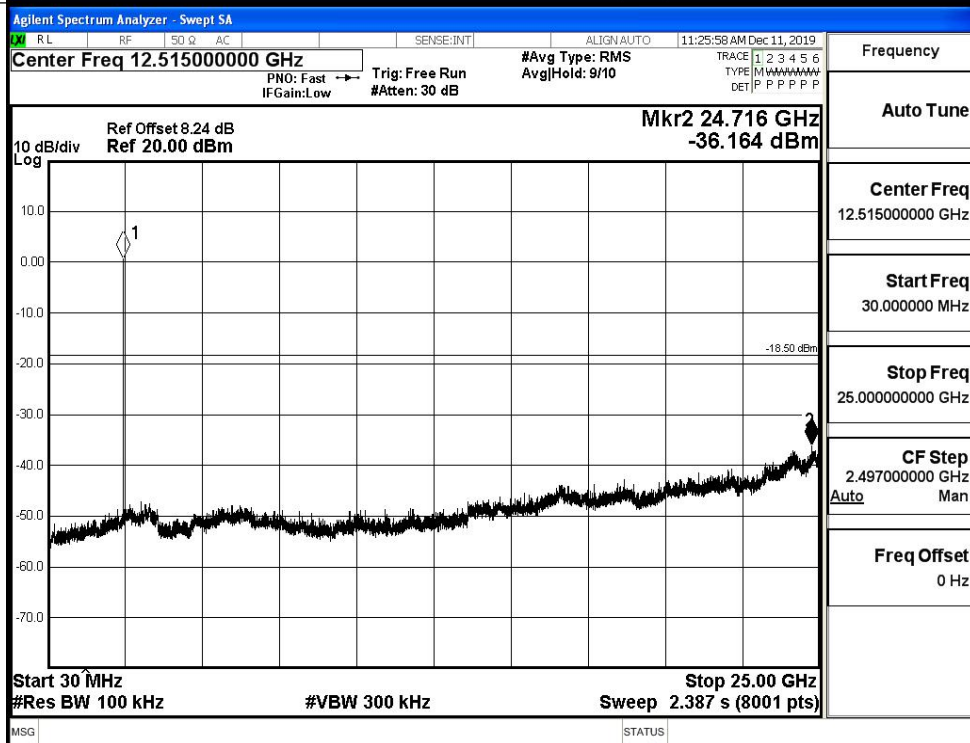


## BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

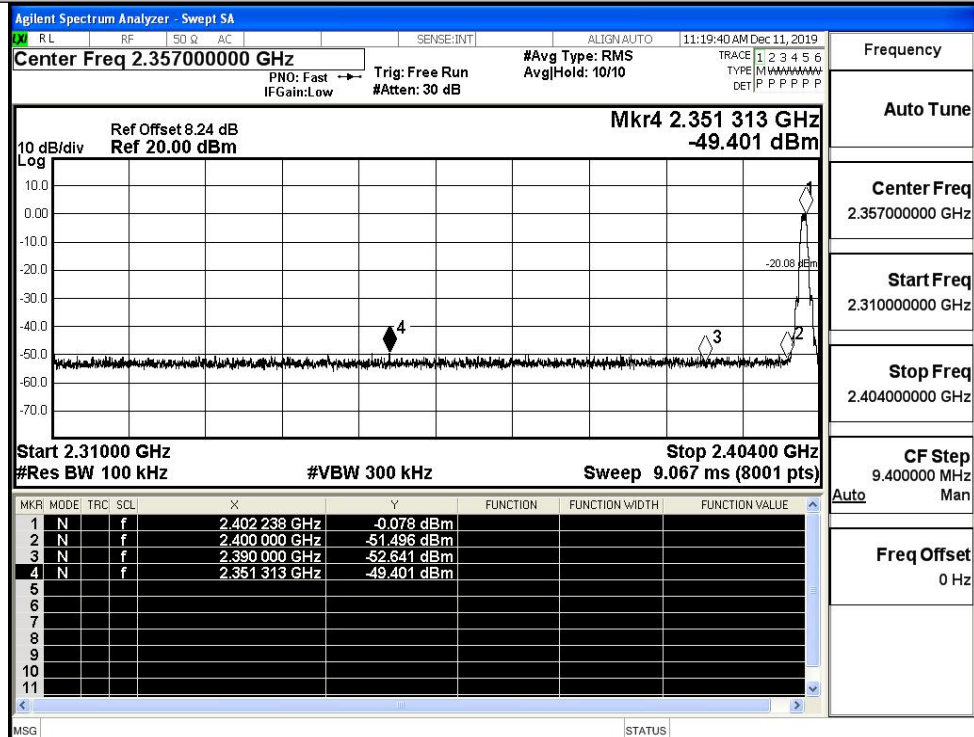


## B.6 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | -0.078             | -49.401                  | -20.08      | PASS    |
| BT LE | HCH     | 1.650              | -49.653                  | -18.35      | PASS    |

## Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

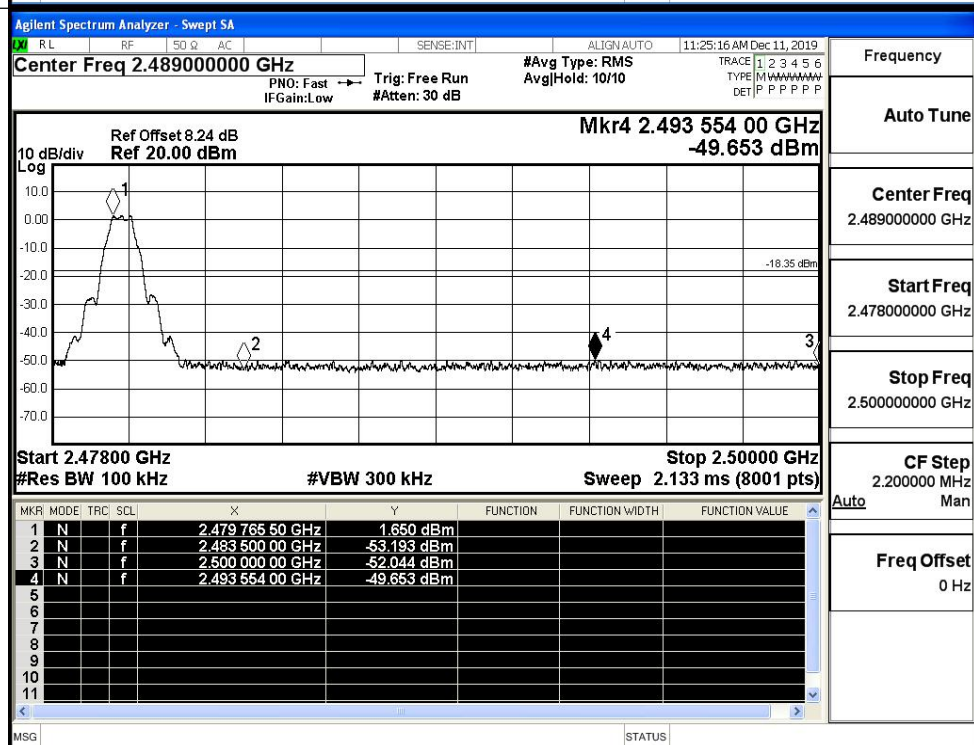
9.400000 MHz

Auto Man

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

Auto Man

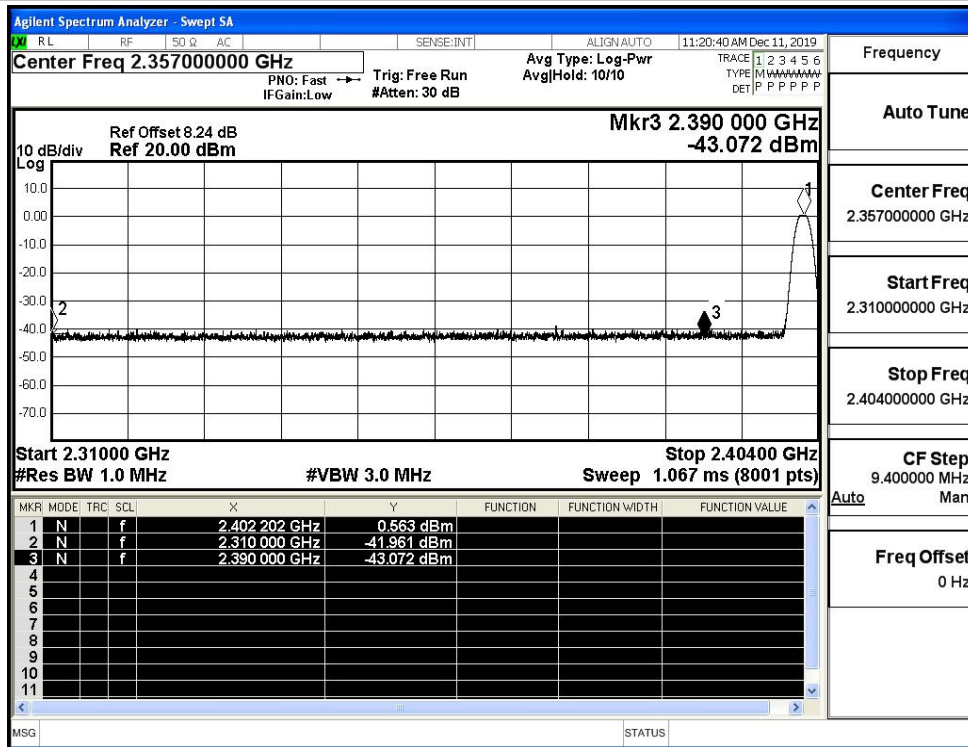
Freq Offset

0 Hz

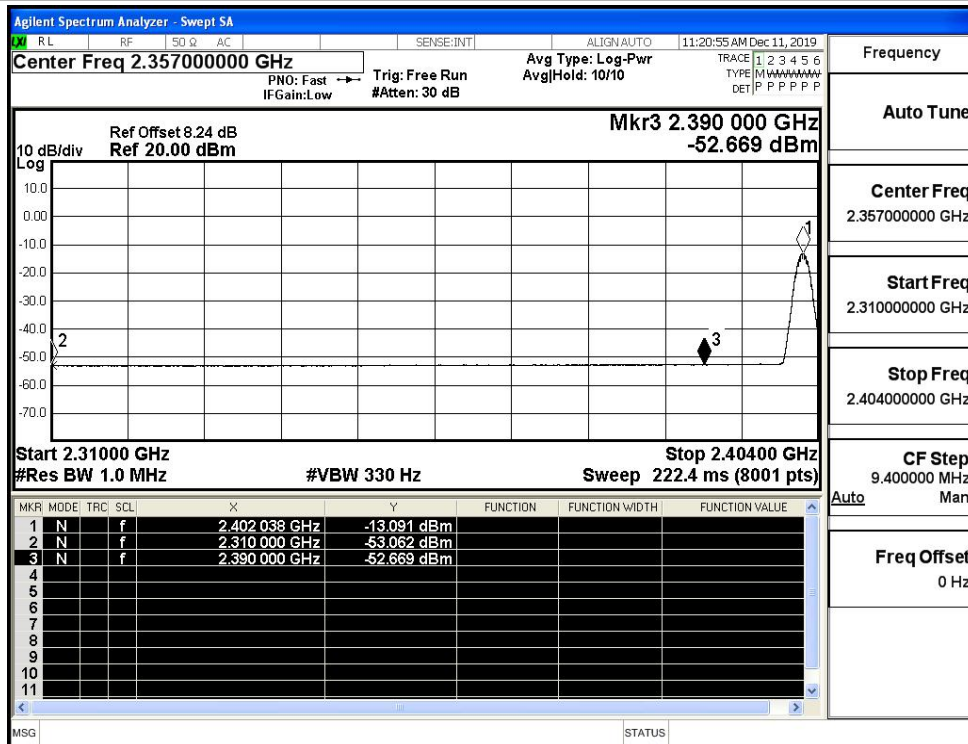
**B.7 Restrict-band band-edge measurements**

| 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 | -41.96      | 2.0  | 0             | 53.30      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -53.06      | 2.0  | 0             | 42.20      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -43.07      | 2.0  | 0             | 52.19      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -52.67      | 2.0  | 0             | 42.59      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -42.36      | 2.0  | 0             | 52.90      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -52.11      | 2.0  | 0             | 43.15      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -41.60      | 2.0  | 0             | 53.66      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -52.03      | 2.0  | 0             | 43.23      | AV       | 54             | PASS  |

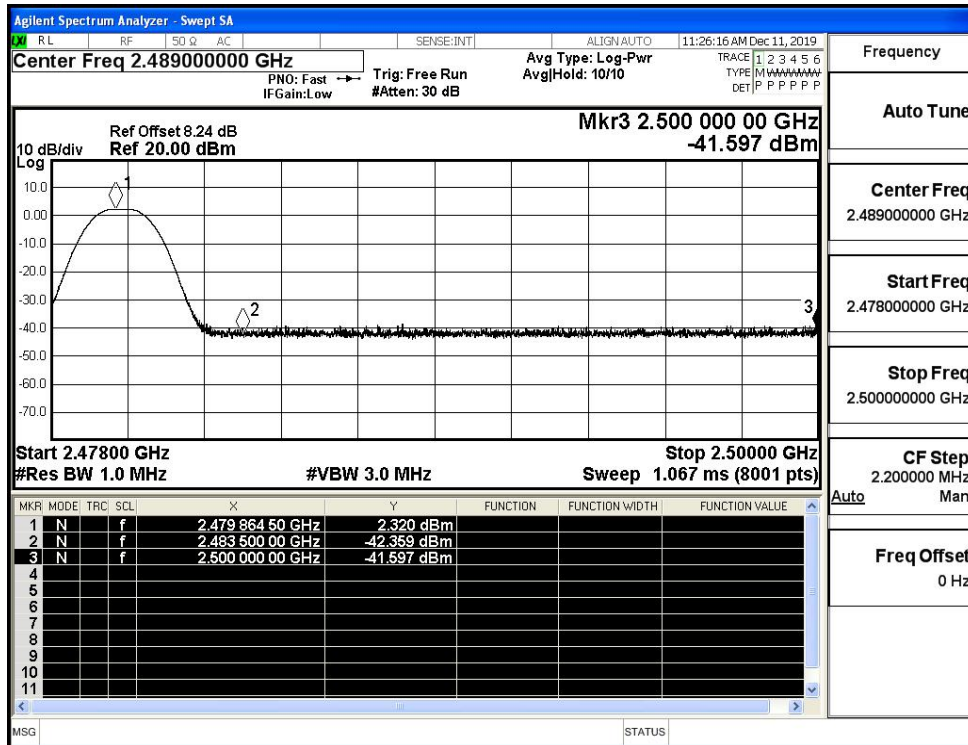
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

