

## Appendix B

### RF Test Data for BT LEV5.0(BLE) (Conducted Measurement)

Product Name: TWS Slider TCH AX-38

Trade Mark: N/A

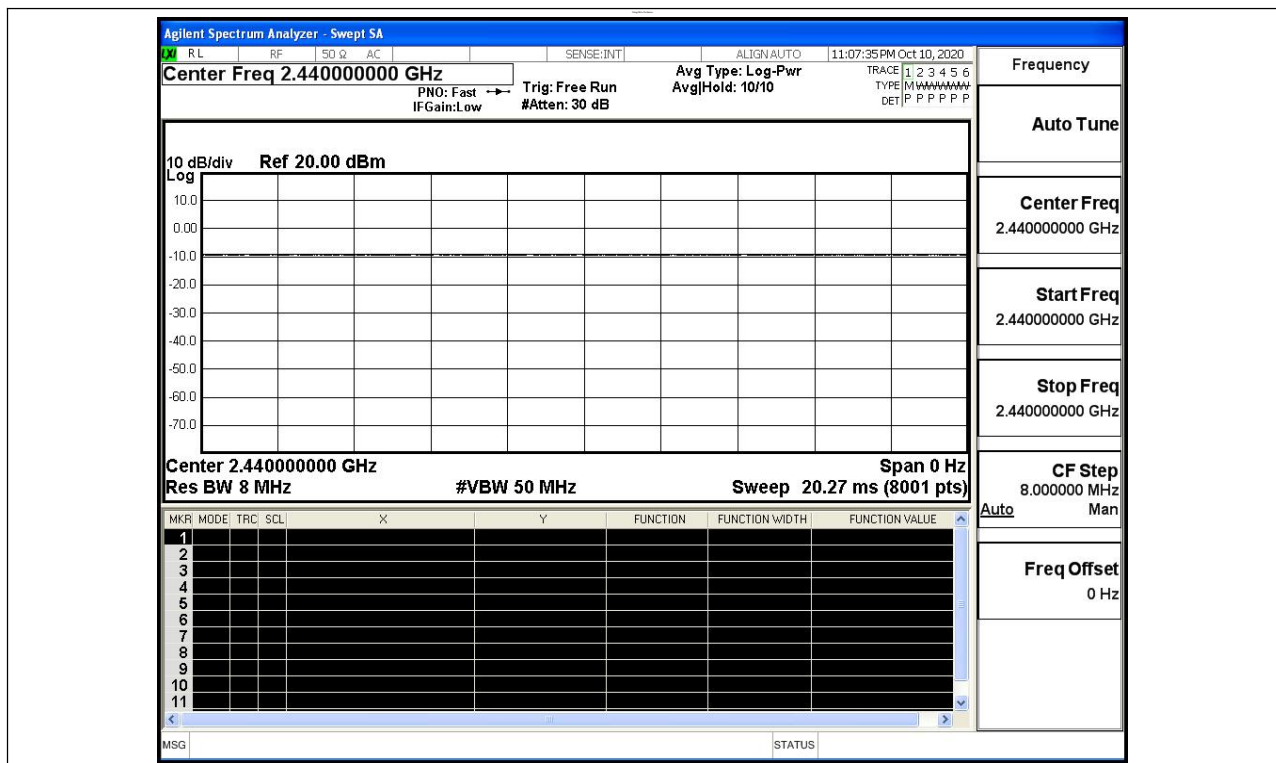
Test Model: HC-AU-BE-110

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.9° C   |
| Relative Humidity: | 52.6%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jam Zheng |
| Supervised by:     | Li Huan   |

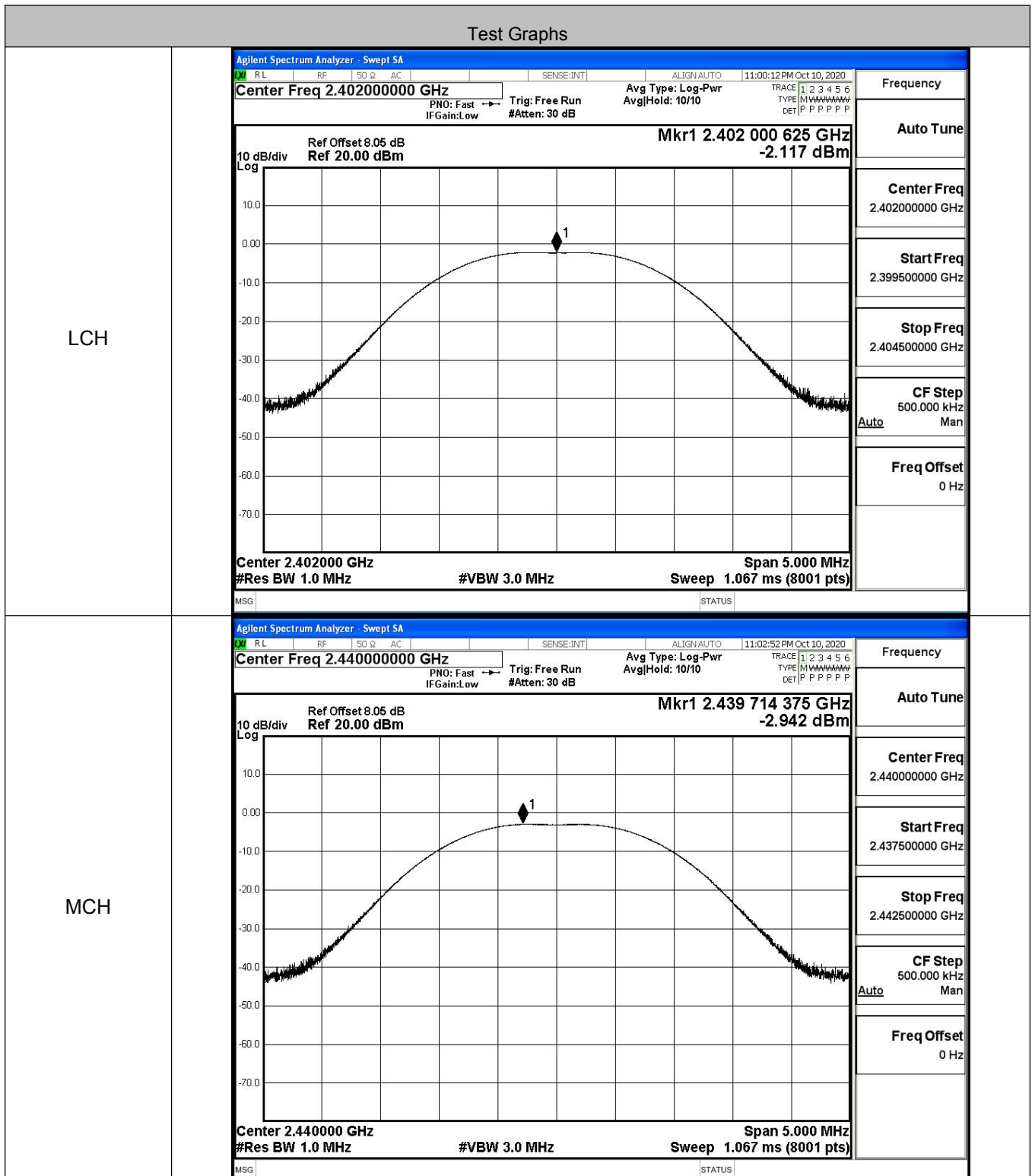
#### B.1 Duty Cycle

| 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     | -2.117                  | 30          | PASS    |
| BT LE | MCH     | -2.942                  | 30          | PASS    |
| BT LE | HCH     | -2.39                   | 30          | PASS    |



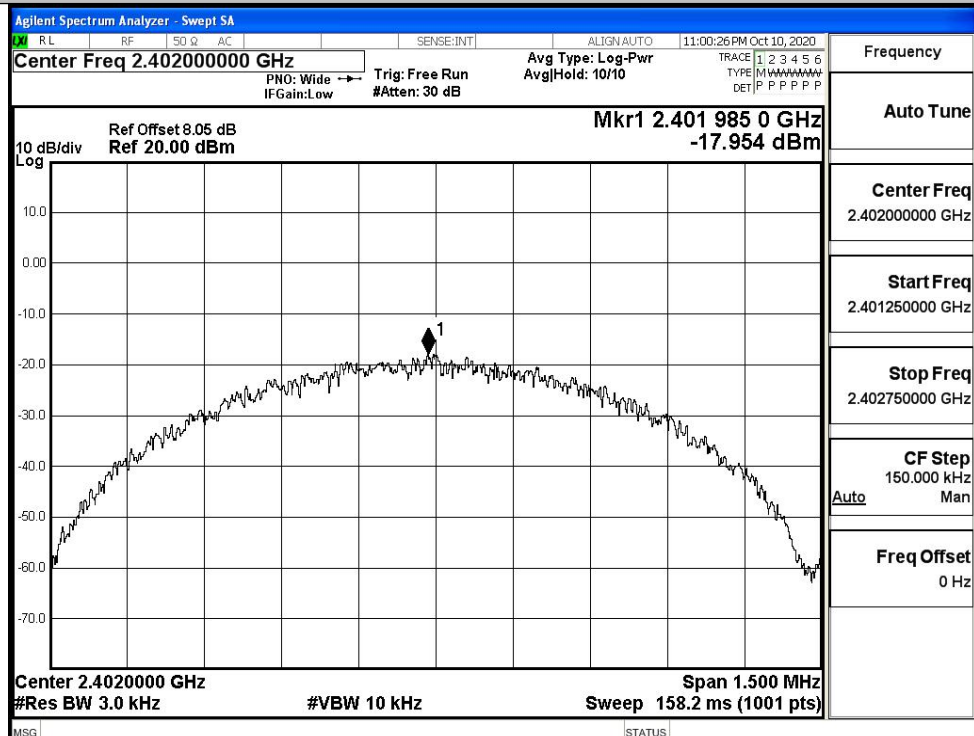


### B.3 Maximum Power Spectral Density

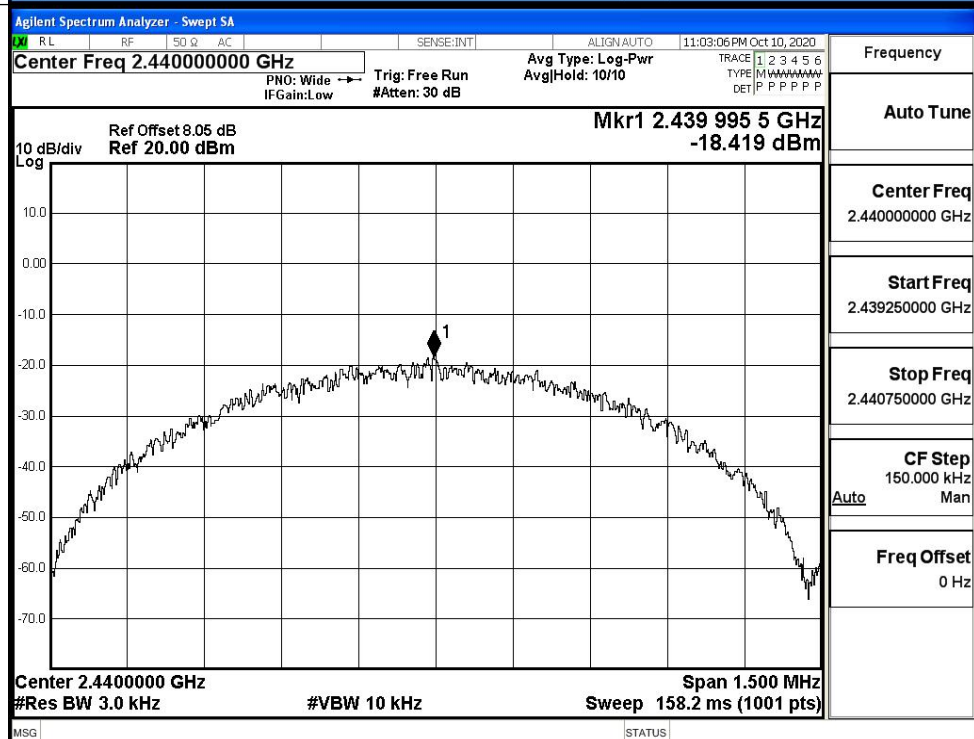
| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -17.954        | 8                | PASS    |
| BT LE | MCH     | -18.419        | 8                | PASS    |
| BT LE | HCH     | -18.030        | 8                | PASS    |

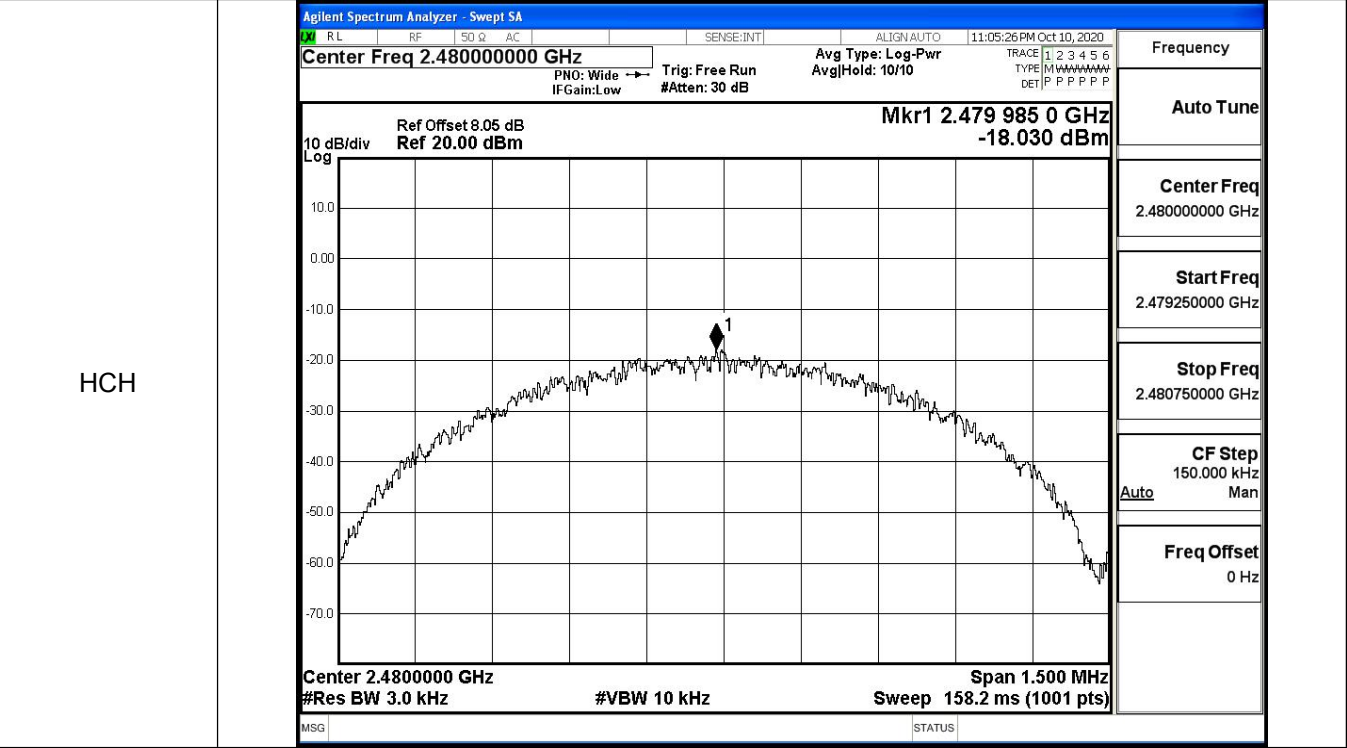
#### Test Graphs

LCH



MCH



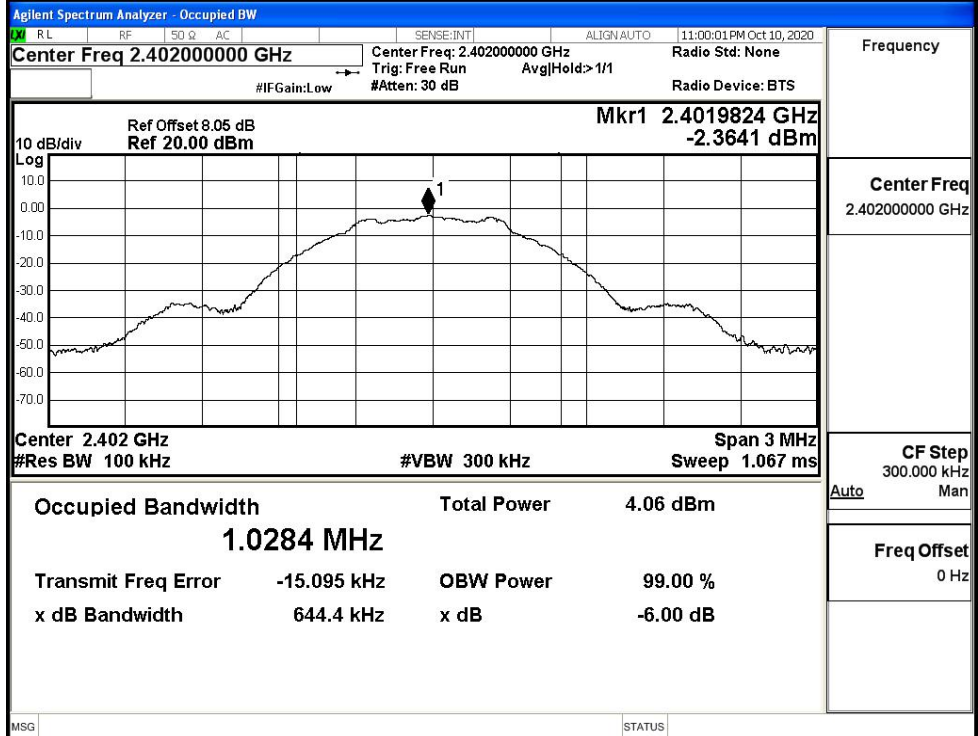


## B.4 6dB Bandwidth

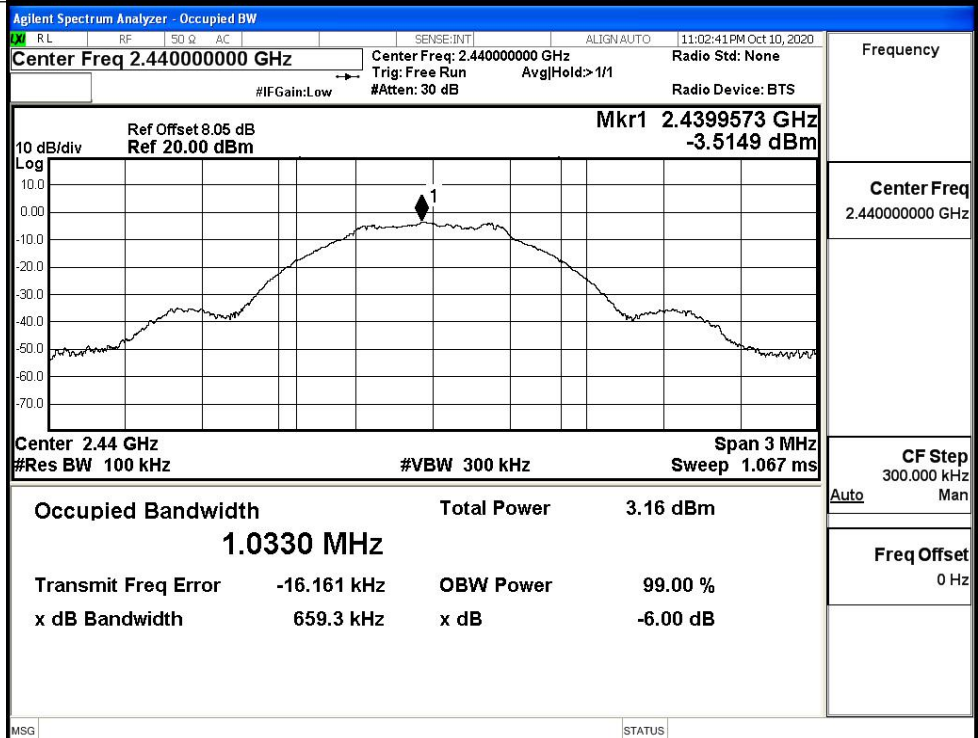
| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.6444              | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.6593              | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.6493              | $\geq 0.5$  | PASS    |

### Test Graphs

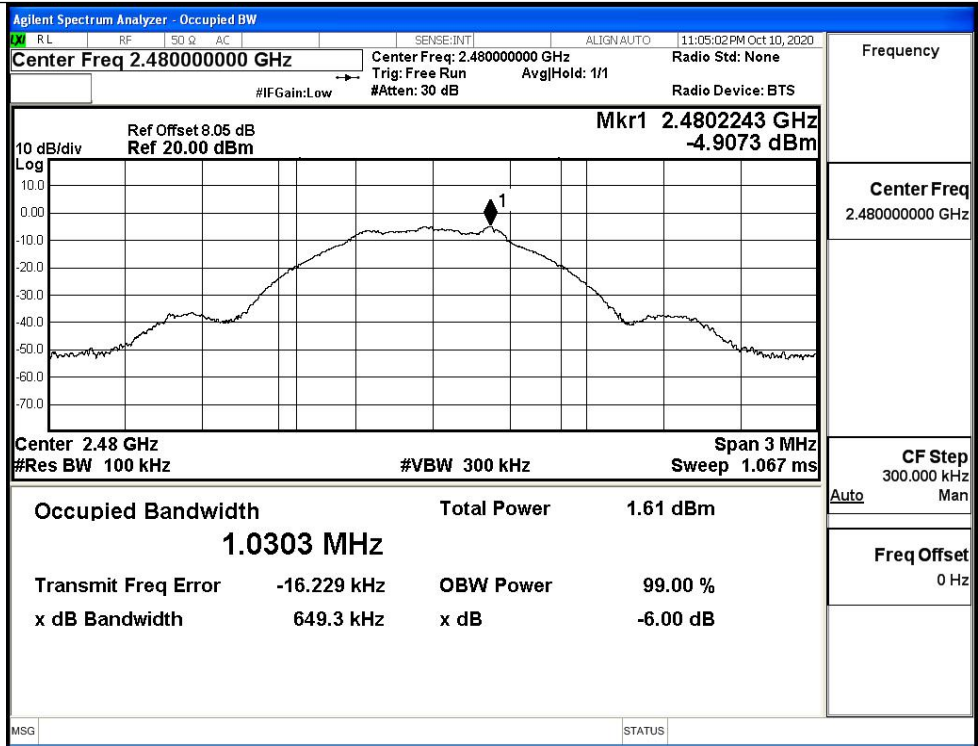
LCH



MCH



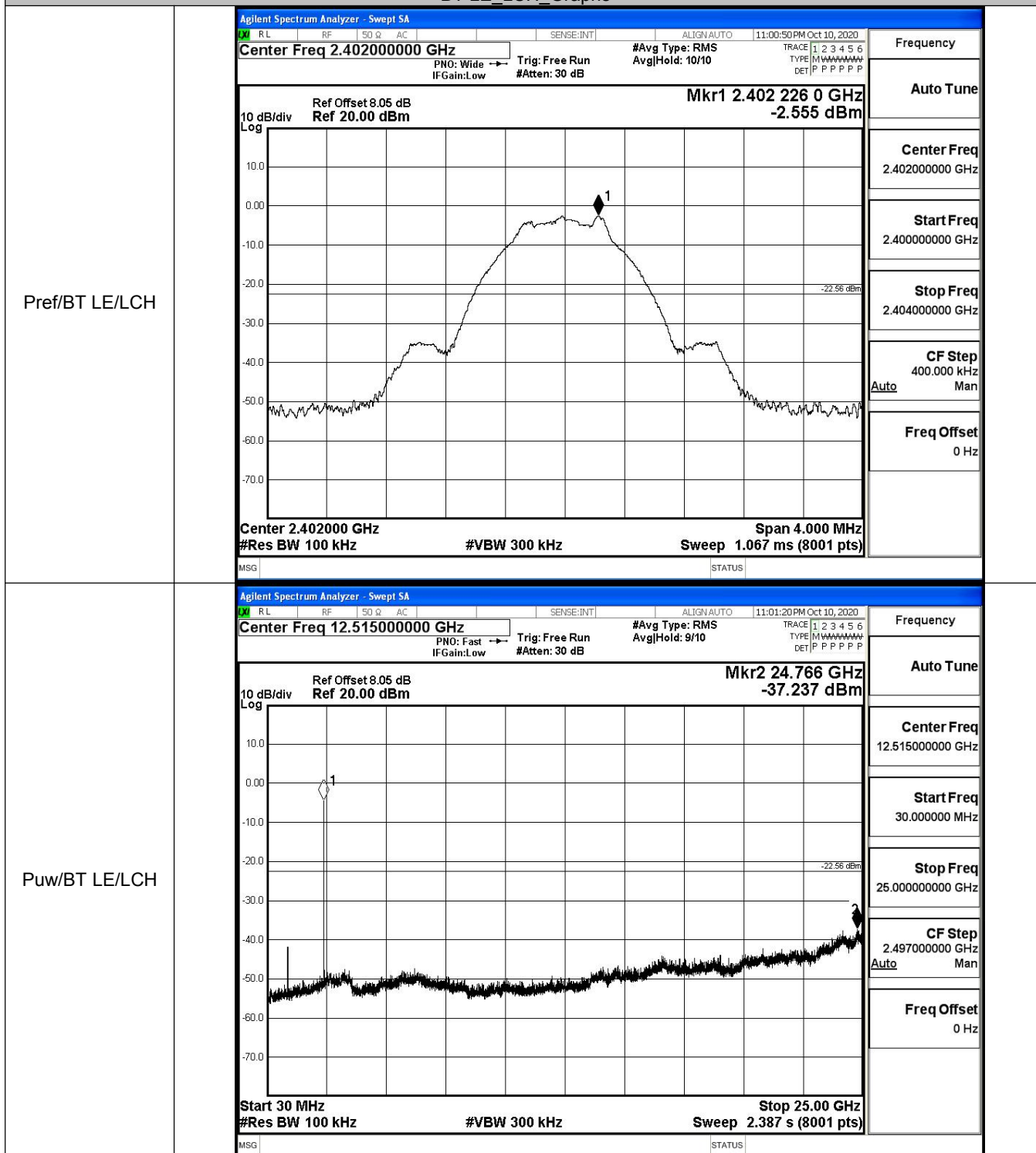
HCH



## B.5 RF Conducted Spurious Emissions

| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | -2.555     | -37.237          | -22.555     | PASS    |
| BT LE | MCH     | -3.315     | -37.159          | -23.315     | PASS    |
| BT LE | HCH     | -2.793     | -37.282          | -22.793     | PASS    |

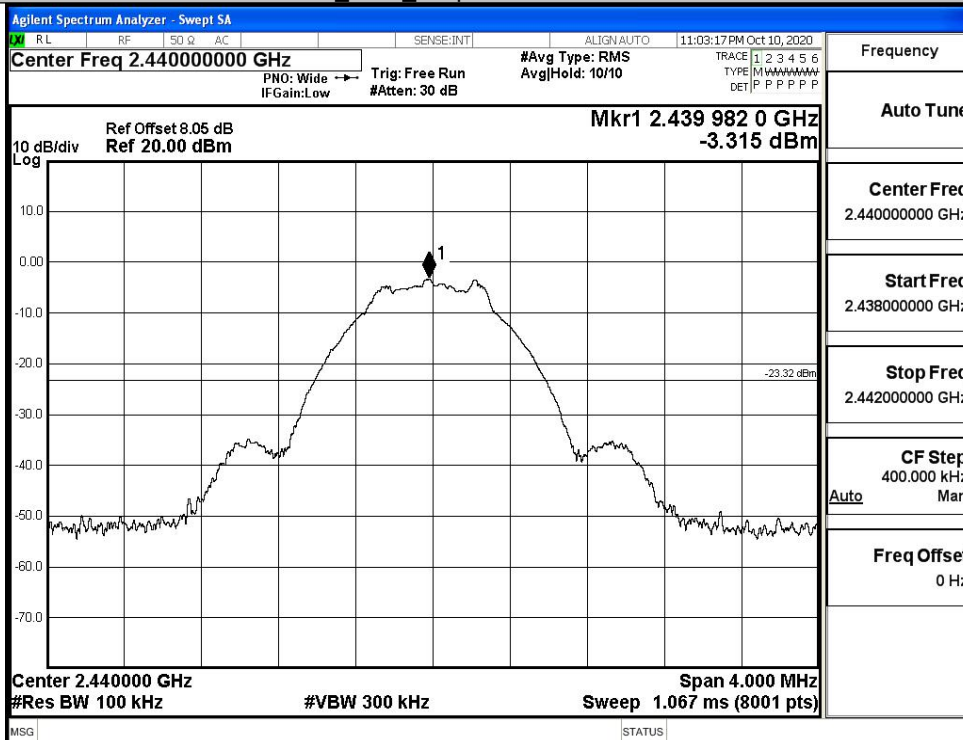
BT LE\_LCH\_Graphs



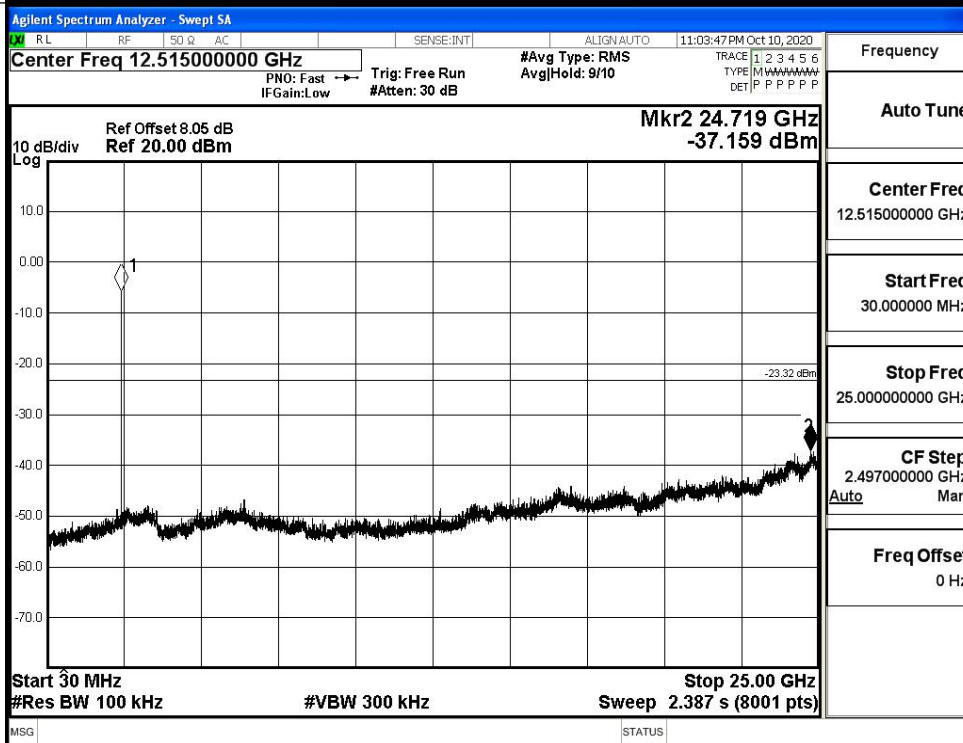


BT LE MCH Graphs

Pref/BT LE/MCH

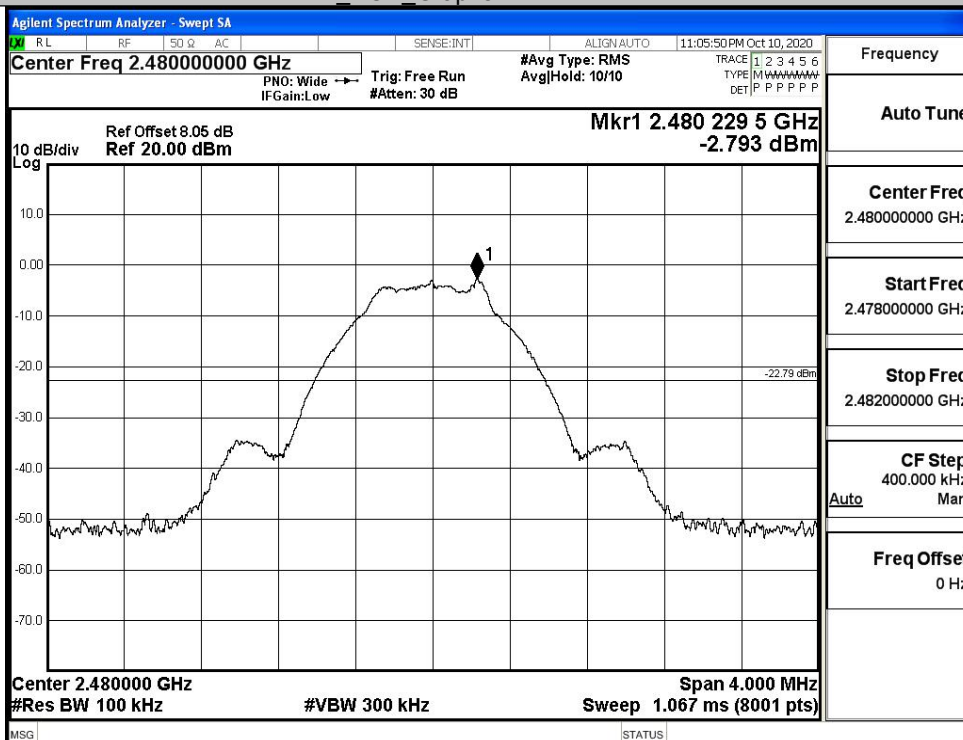


Puw/BT LE/MCH

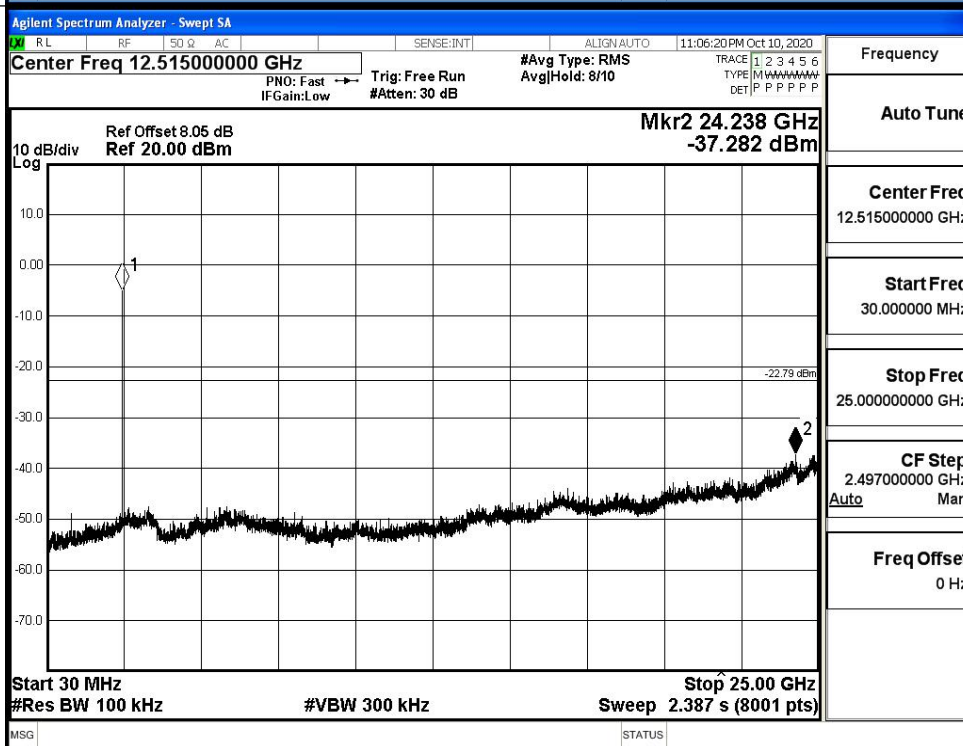


# BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

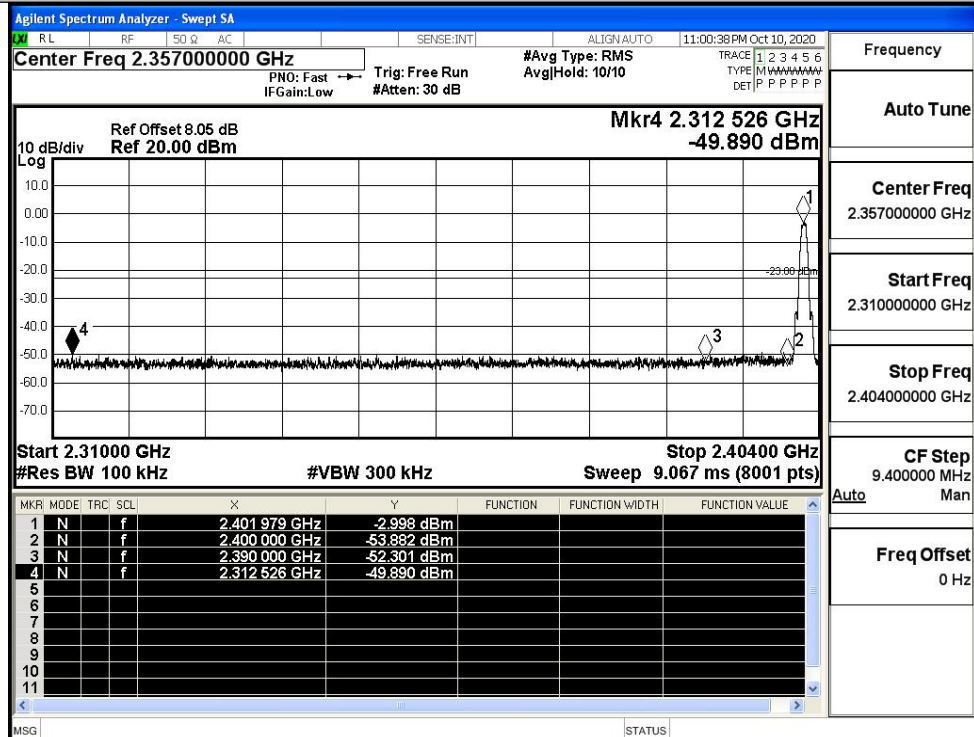


## B.6 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | -2.998             | -49.890                  | -23         | PASS    |
| BT LE | HCH     | -2.884             | -49.479                  | -22.88      | PASS    |

## Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

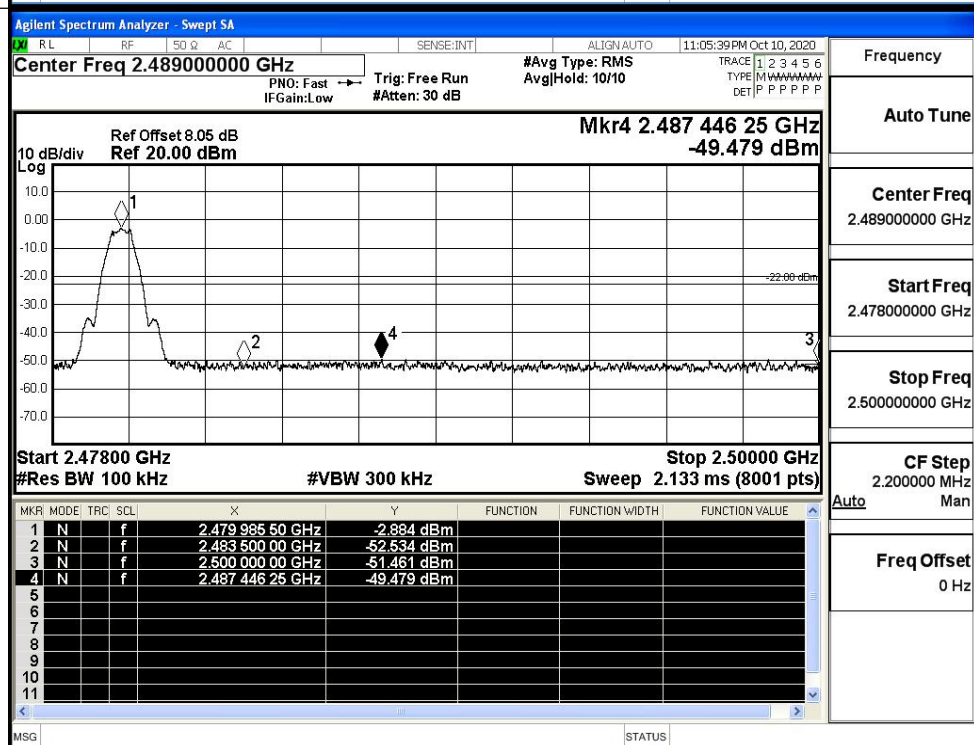
9.400000 MHz

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

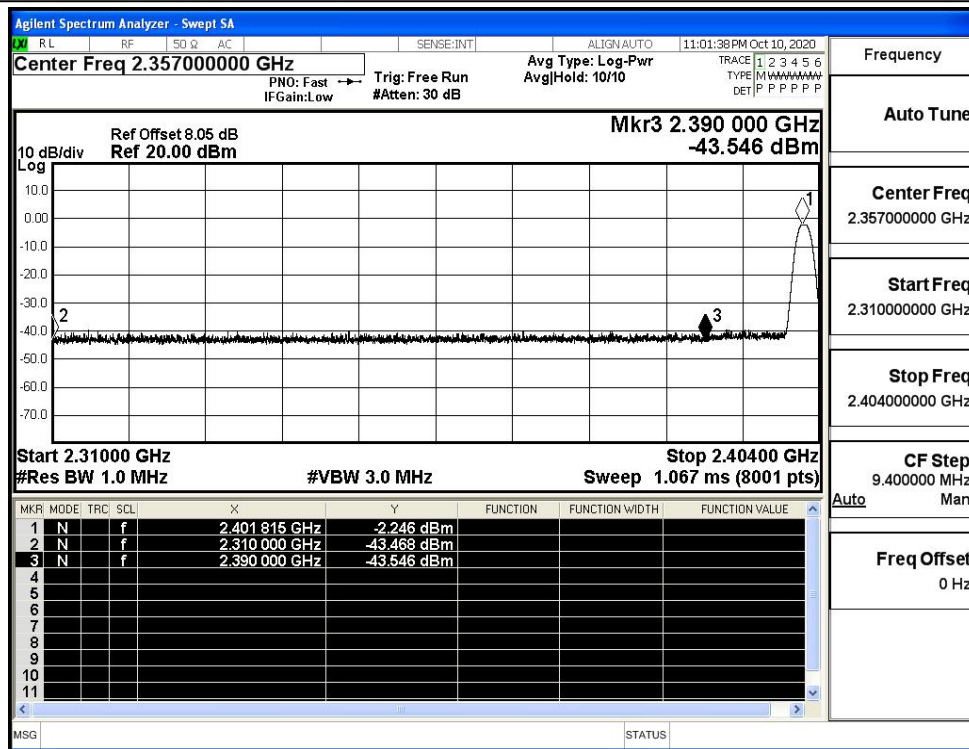
Freq Offset

0 Hz

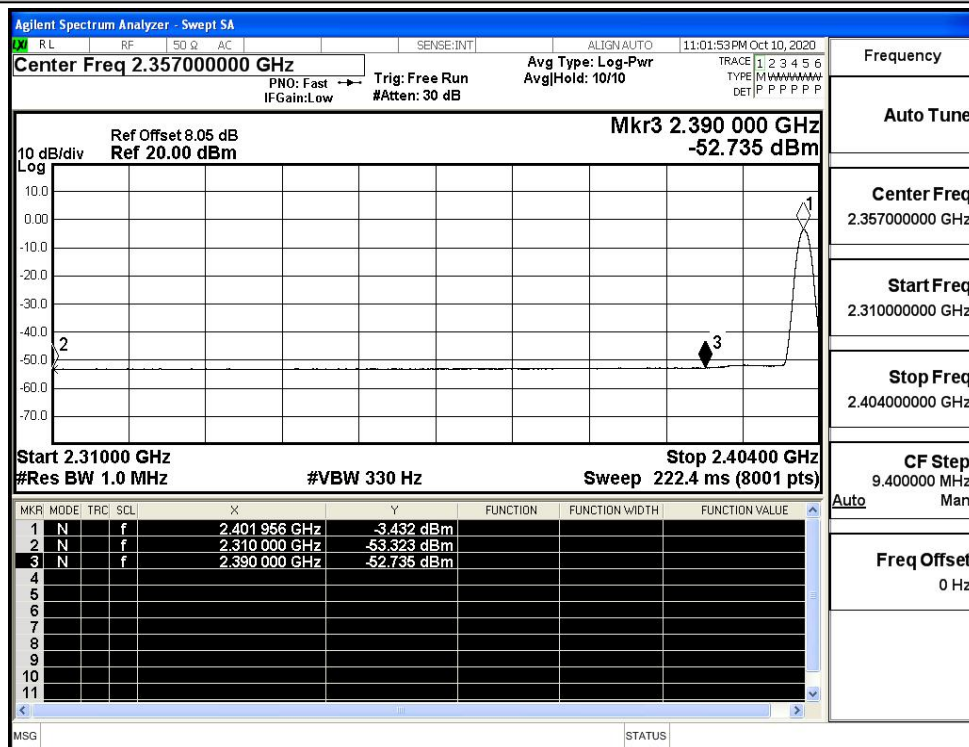
## B.7 Restrict-band band-edge measurements

| 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 | -43.47      | 2.0  | 0             | 53.76      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -53.32      | 2.0  | 0             | 43.91      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -43.55      | 2.0  | 0             | 53.68      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -52.74      | 2.0  | 0             | 44.49      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -42.61      | 2.0  | 0             | 54.62      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -51.97      | 2.0  | 0             | 45.26      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -42.54      | 2.0  | 0             | 54.69      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -52.32      | 2.0  | 0             | 44.91      | AV       | 54             | PASS  |

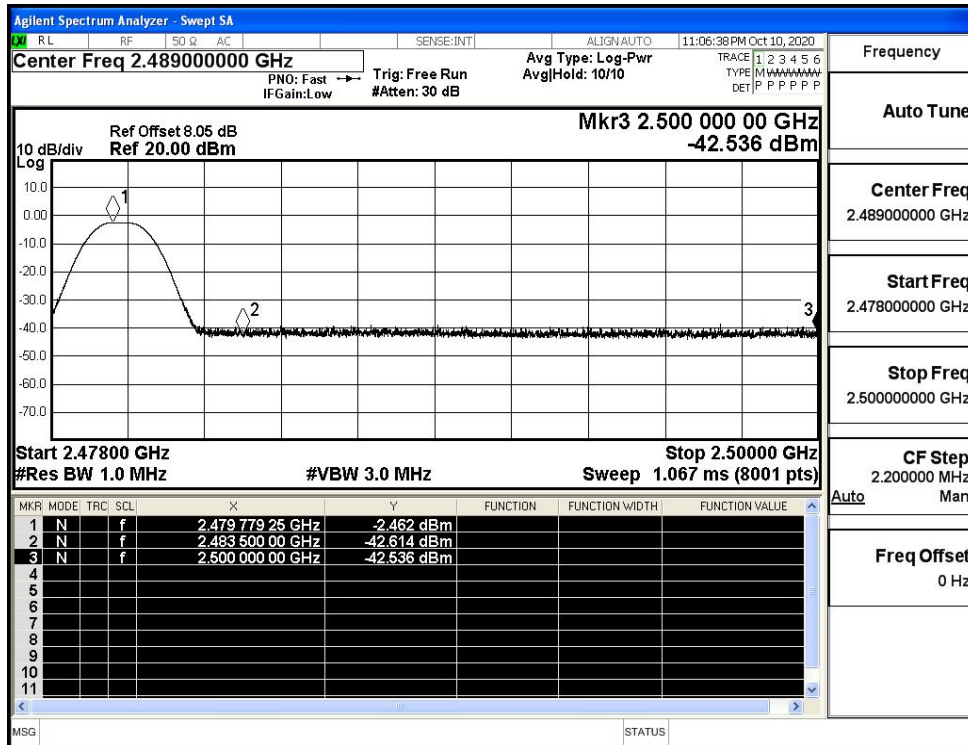
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

