

## Appendix B

### RF Test Data for BT V4.2 (BLE) (Conducted Measurement)

Product Name: Dash camera

Trade Mark: SCOSCHE

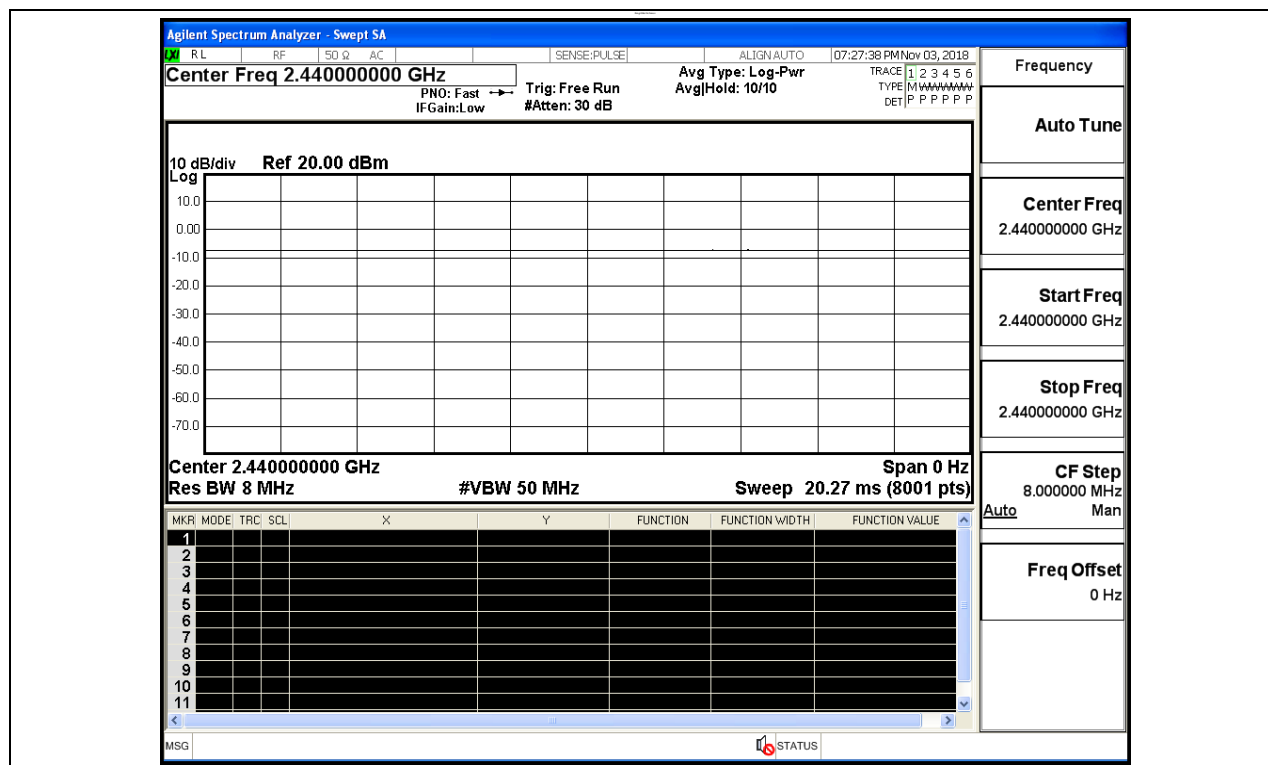
Test Model: NEXC1

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 23.5 ° C    |
| Relative Humidity: | 54.2%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Mina.Xu     |
| Supervised by:     | Jayden.Zhuo |

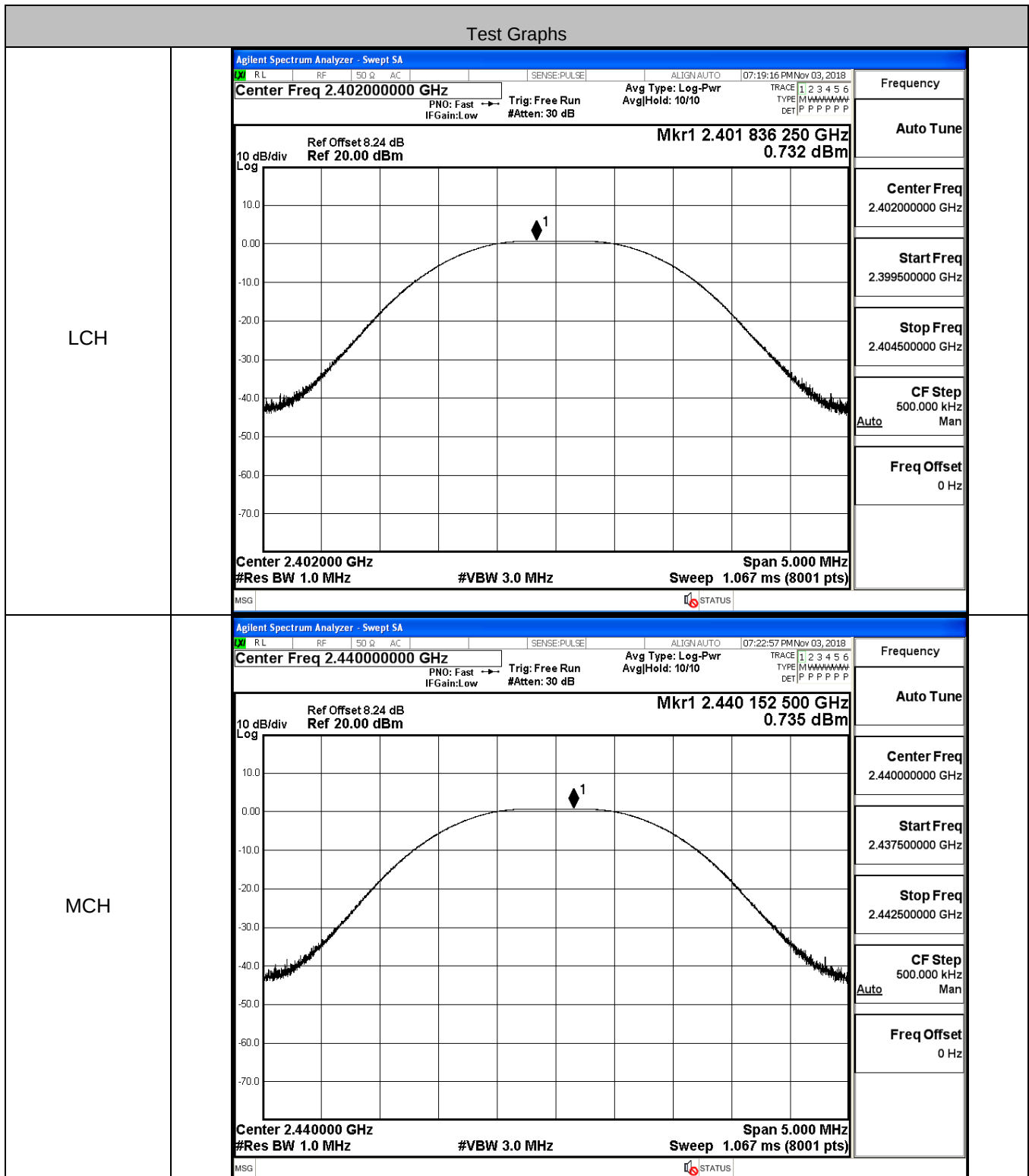
#### B.1 Duty Cycle

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

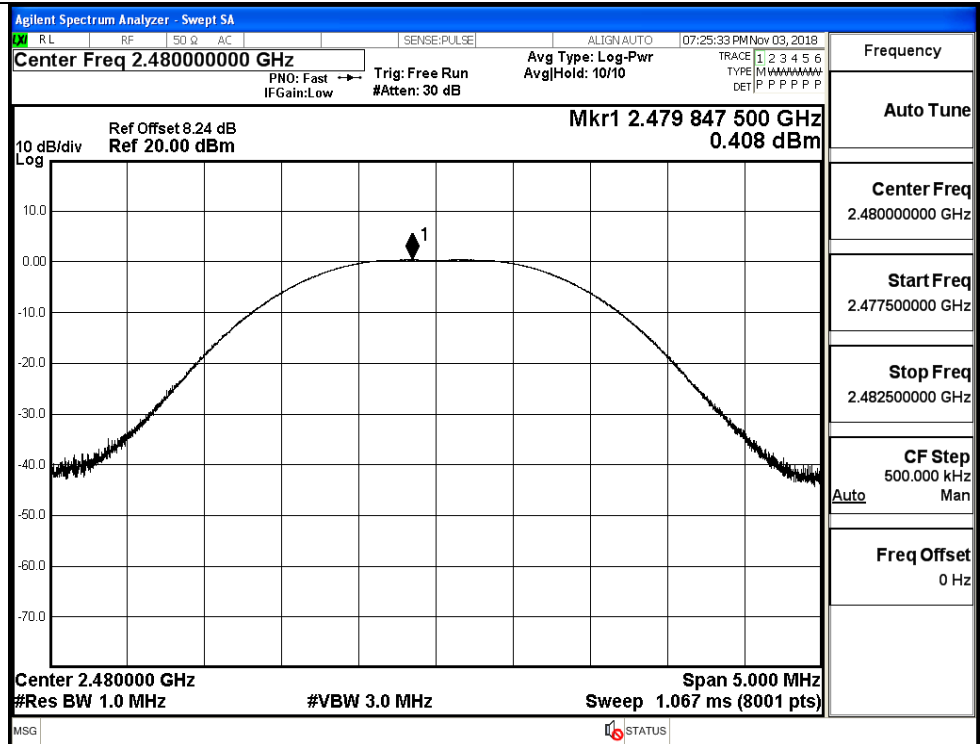


## B.2 Maximum Conducted Peak Output Power

| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | 0.732                   | 30          | PASS    |
| BT LE | MCH     | 0.735                   | 30          | PASS    |
| BT LE | HCH     | 0.408                   | 30          | PASS    |



HCH

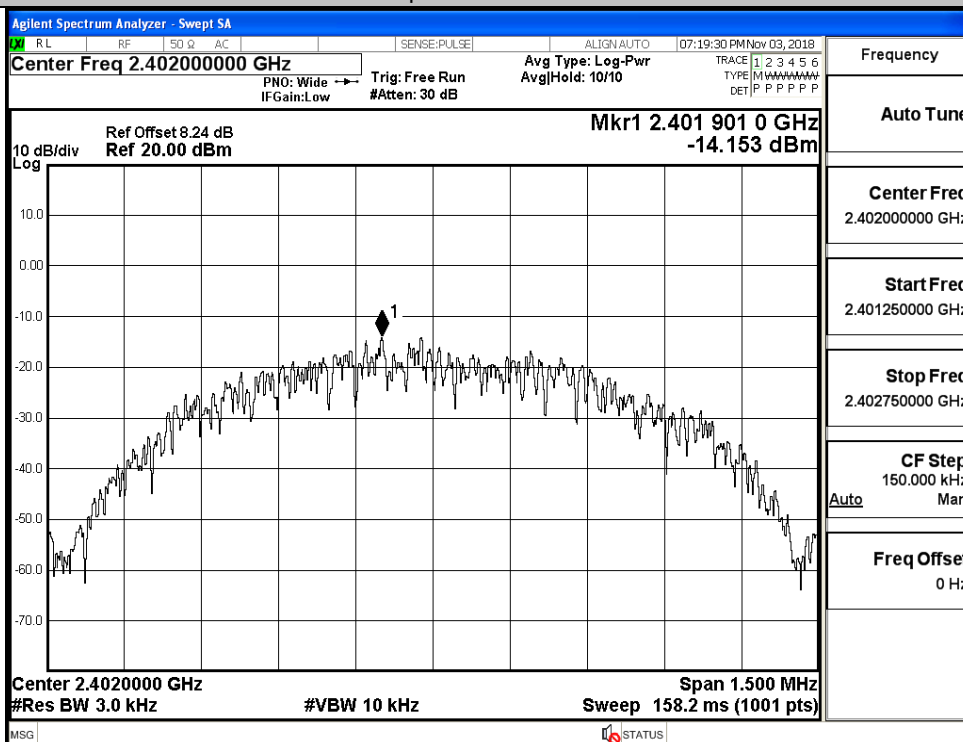


### B.3 Maximum Power Spectral Density

| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -14.153        | 8                | PASS    |
| BT LE | MCH     | -14.163        | 8                | PASS    |
| BT LE | HCH     | -14.580        | 8                | PASS    |

#### Test Graphs

LCH

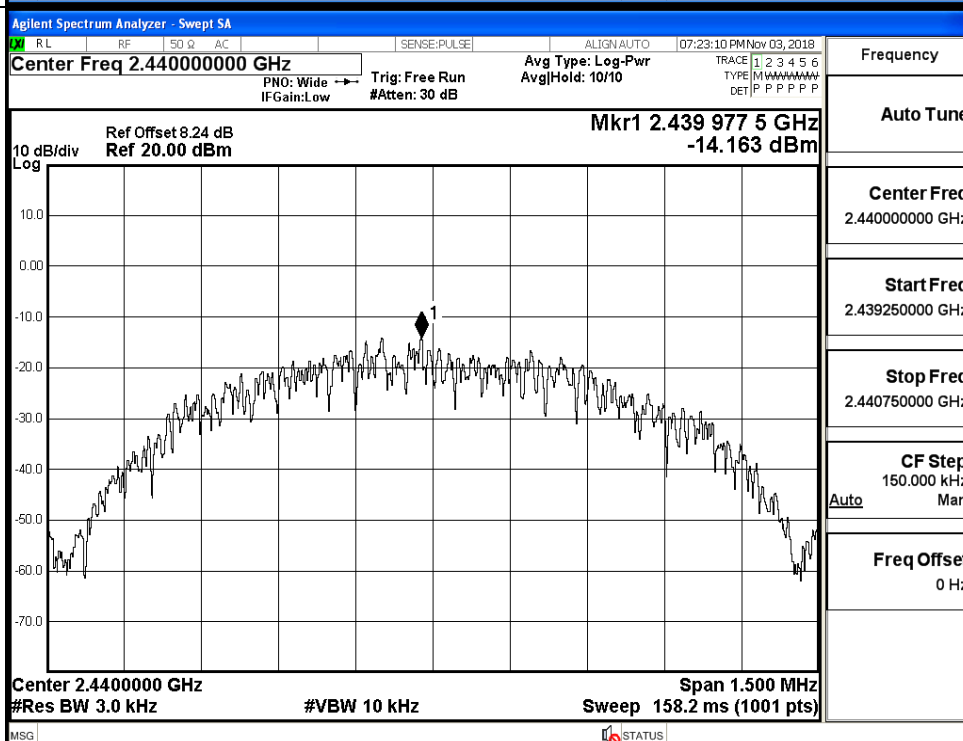


Frequency

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

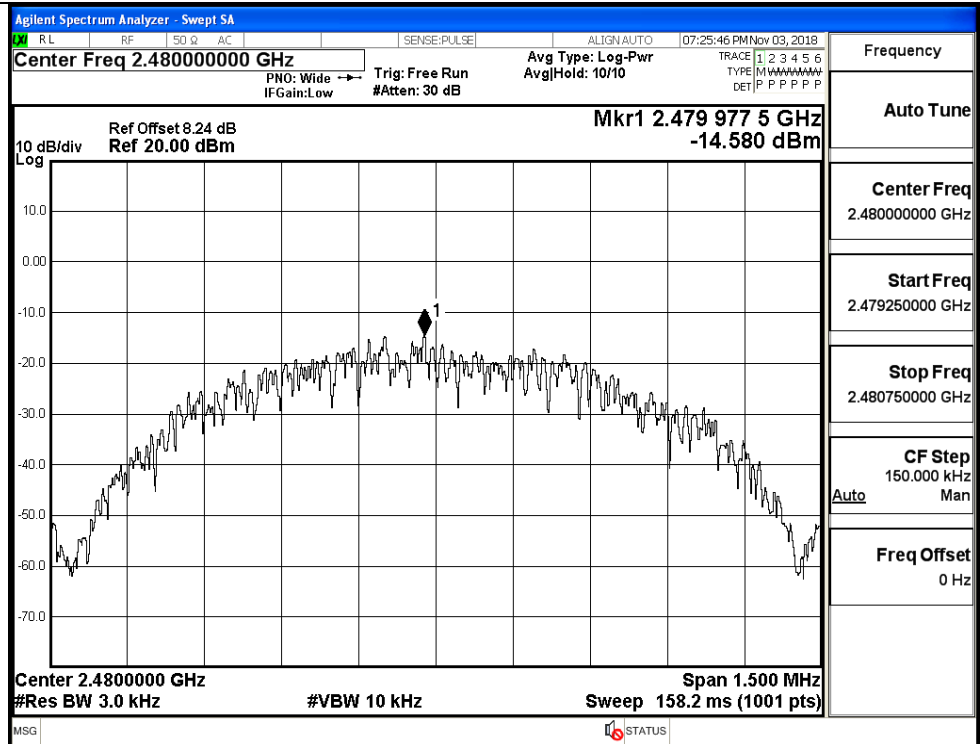


Frequency

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

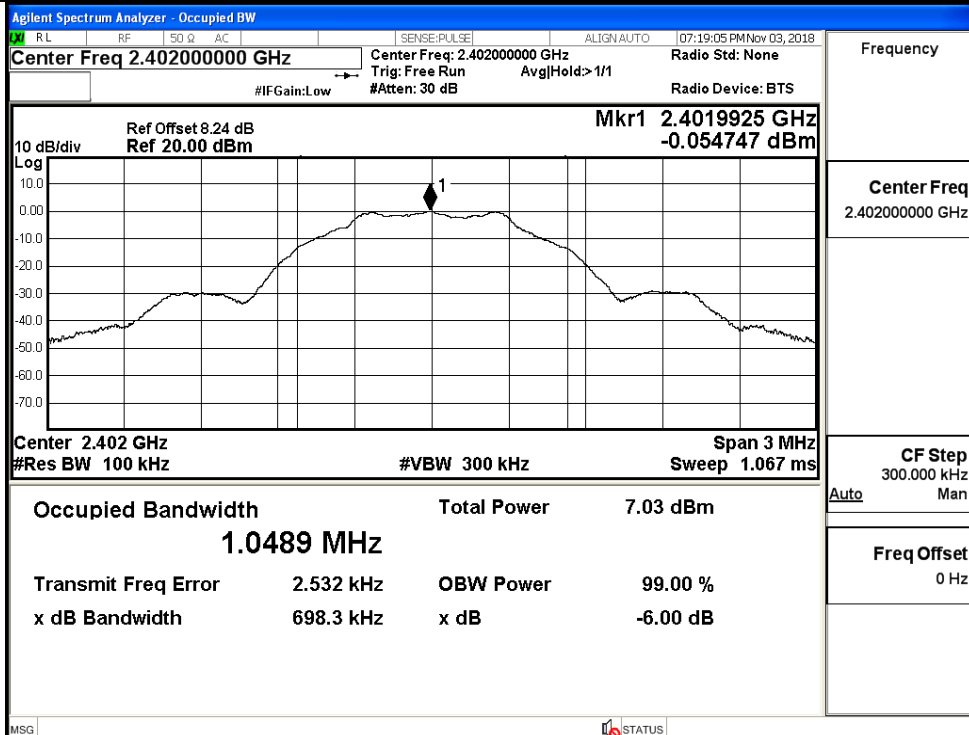


## B.4 6dB Bandwidth

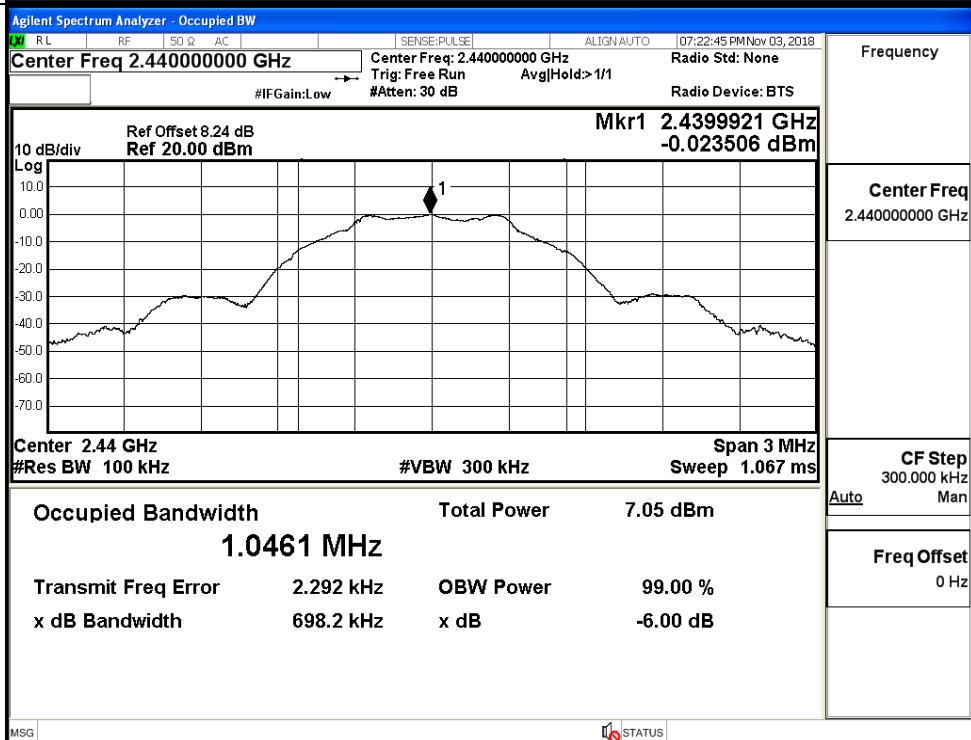
| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.6983              | ≥0.5        | PASS    |
| BT LE | MCH     | 0.6982              | ≥0.5        | PASS    |
| BT LE | HCH     | 0.6891              | ≥0.5        | PASS    |

## Test Graphs

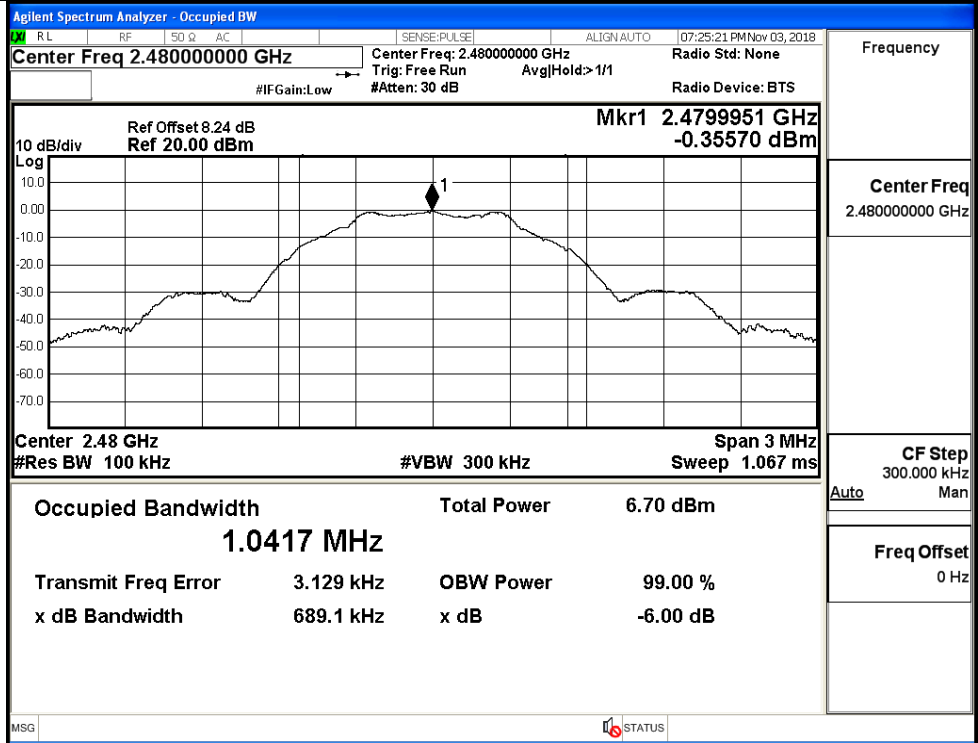
LCH



MCH



HCH

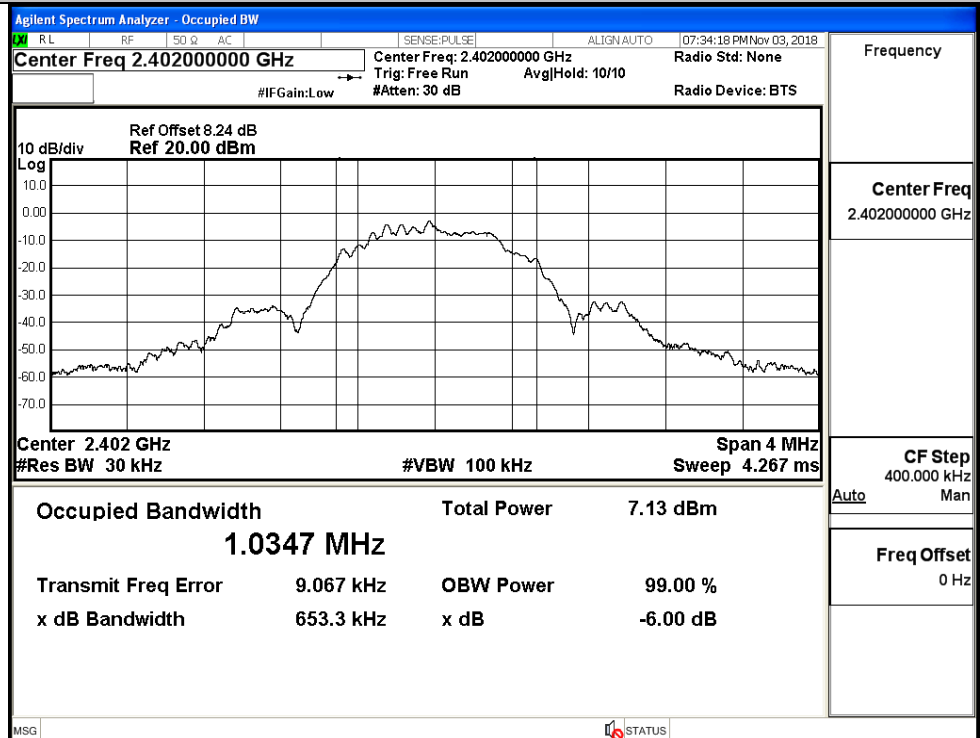


## B.5 Occupied Bandwidth

| Mode  | Channel | Occupied Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|--------------------------|-------------|---------|
| BT LE | LCH     | 1.0347                   | No Limit    | PASS    |
| BT LE | MCH     | 1.0330                   | No Limit    | PASS    |
| BT LE | HCH     | 1.0302                   | No Limit    | PASS    |

## Test Graphs

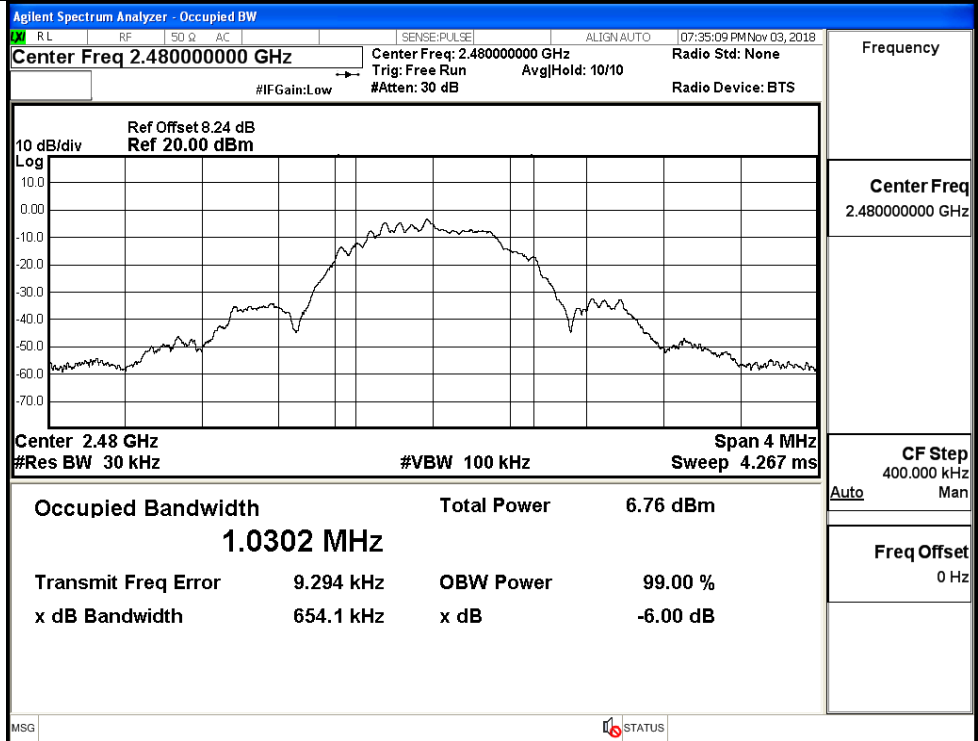
LCH



MCH



HCH

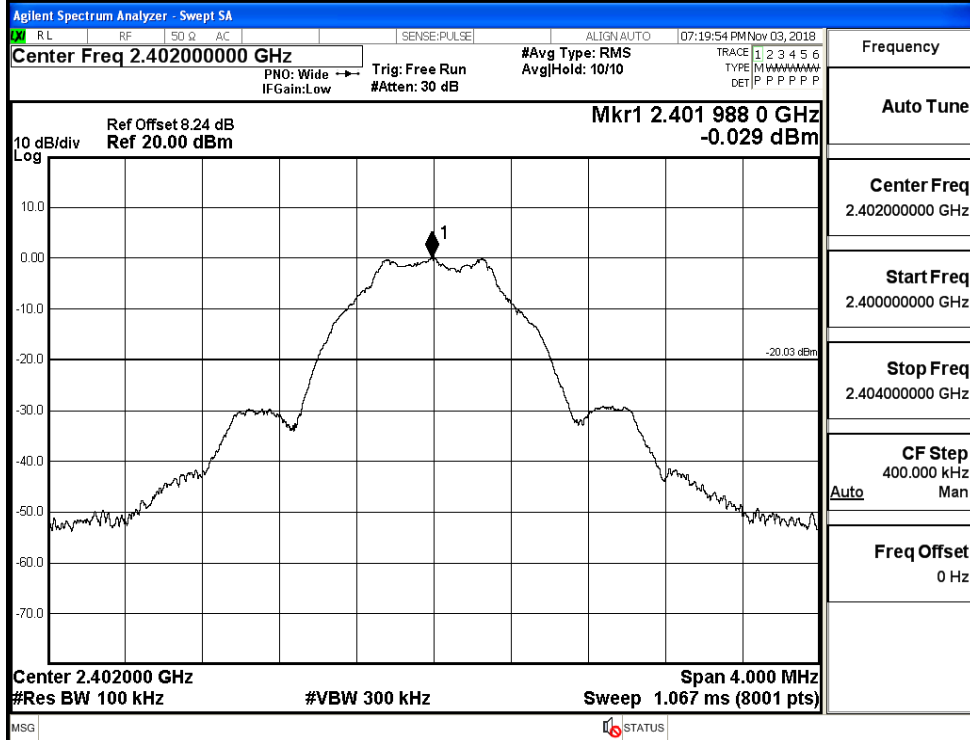


**B.6 RF Conducted Spurious Emissions**

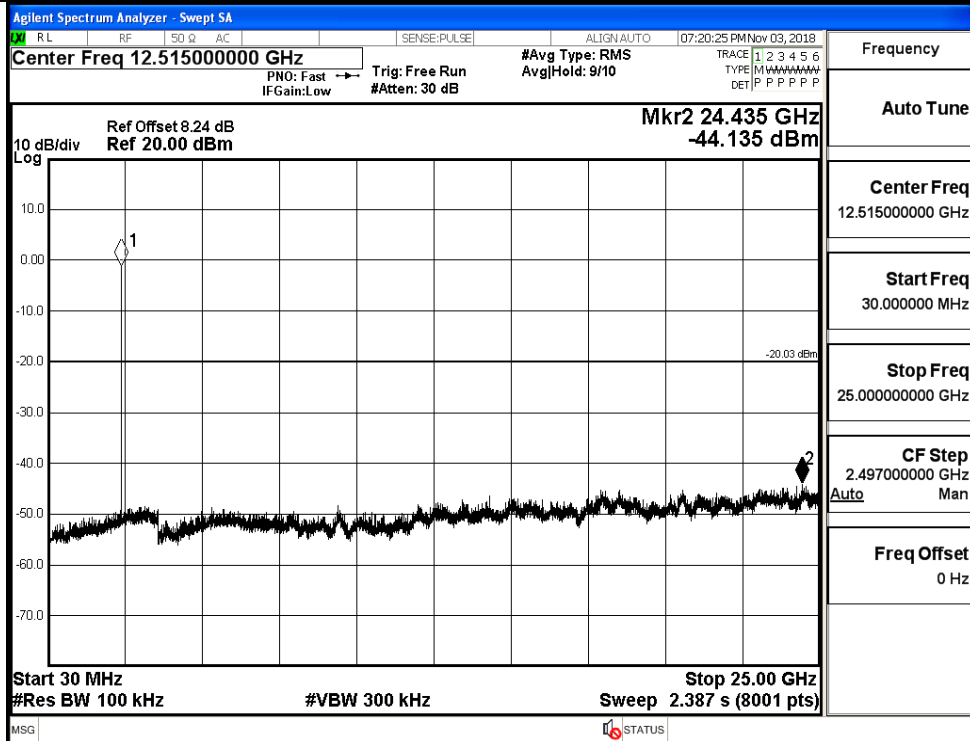
| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | -0.029     | -44.135          | -20.029     | PASS    |
| BT LE | MCH     | -0.182     | -44.331          | -20.182     | PASS    |
| BT LE | HCH     | -0.321     | -43.747          | -20.321     | PASS    |

## BT LE LCH Graphs

Pref/BT LE/LCH

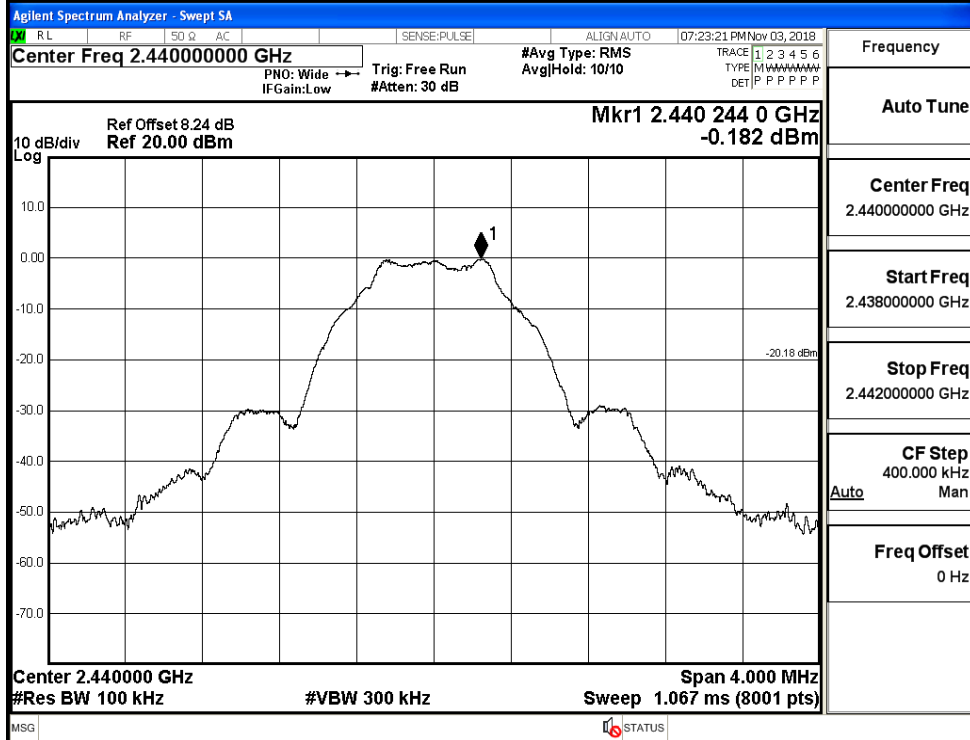


Puw/BT LE/LCH

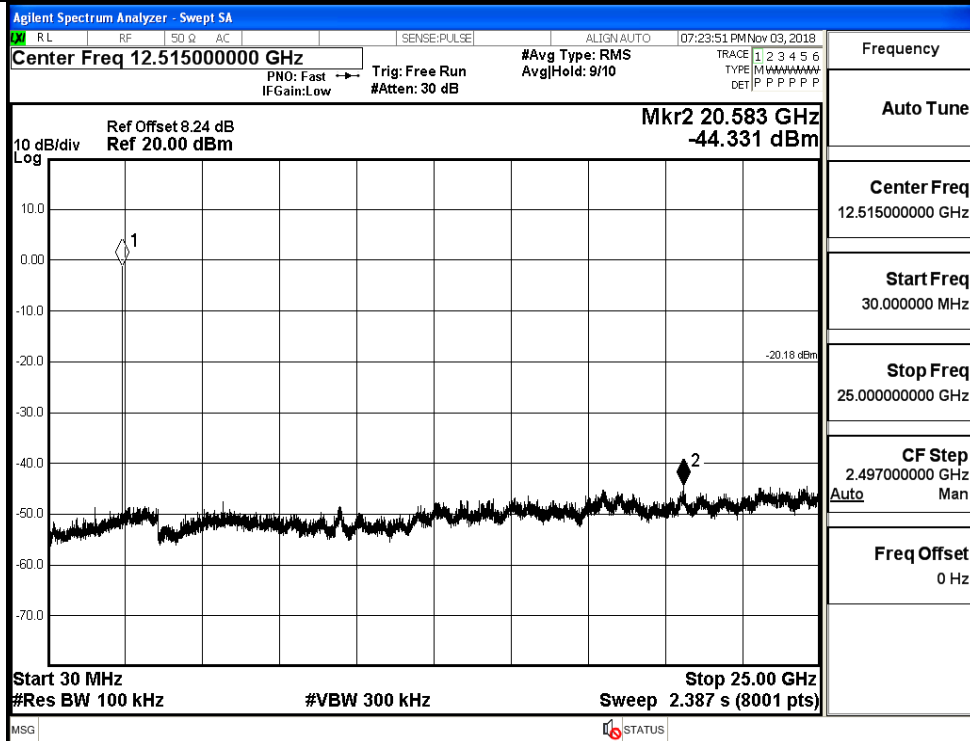


## BT LE MCH Graphs

Pref/BT LE/MCH

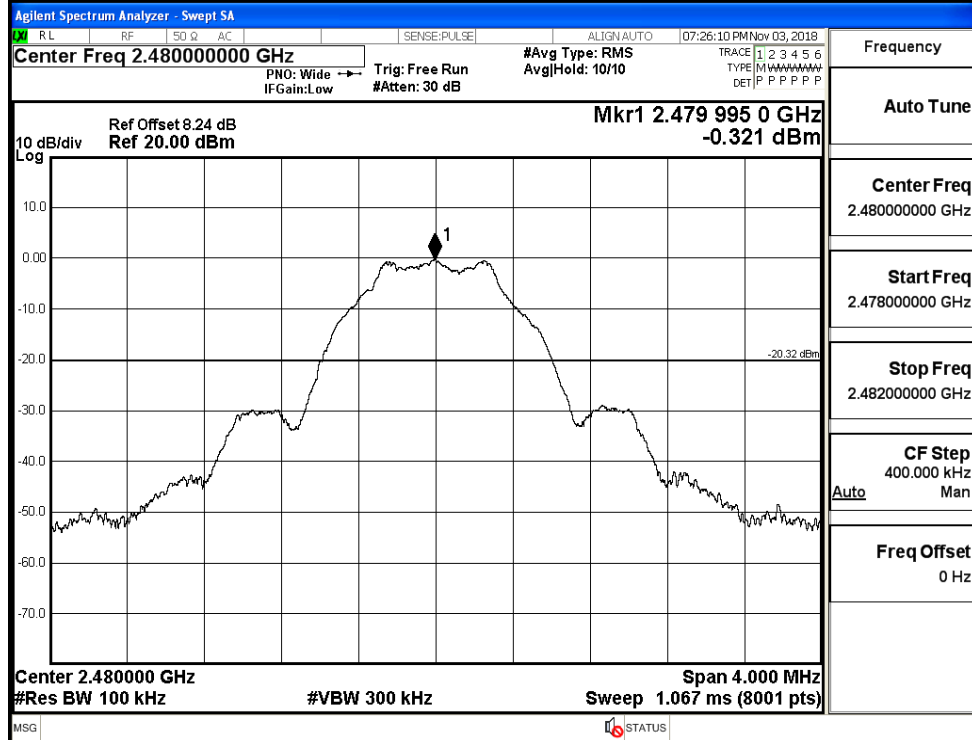


Puw/BT LE/MCH

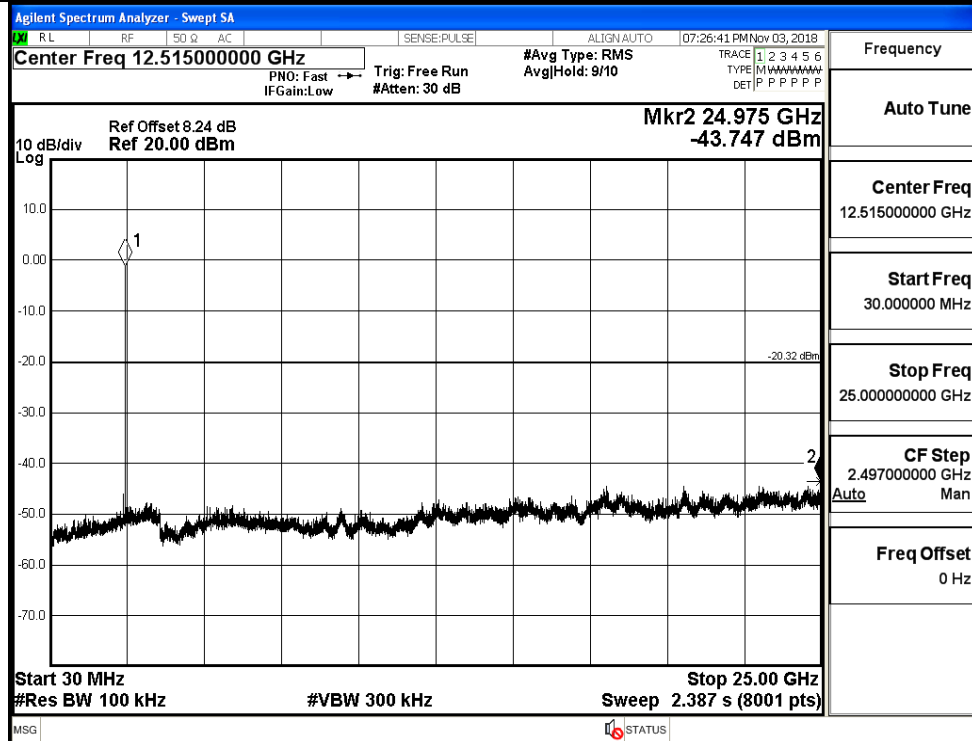


## BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

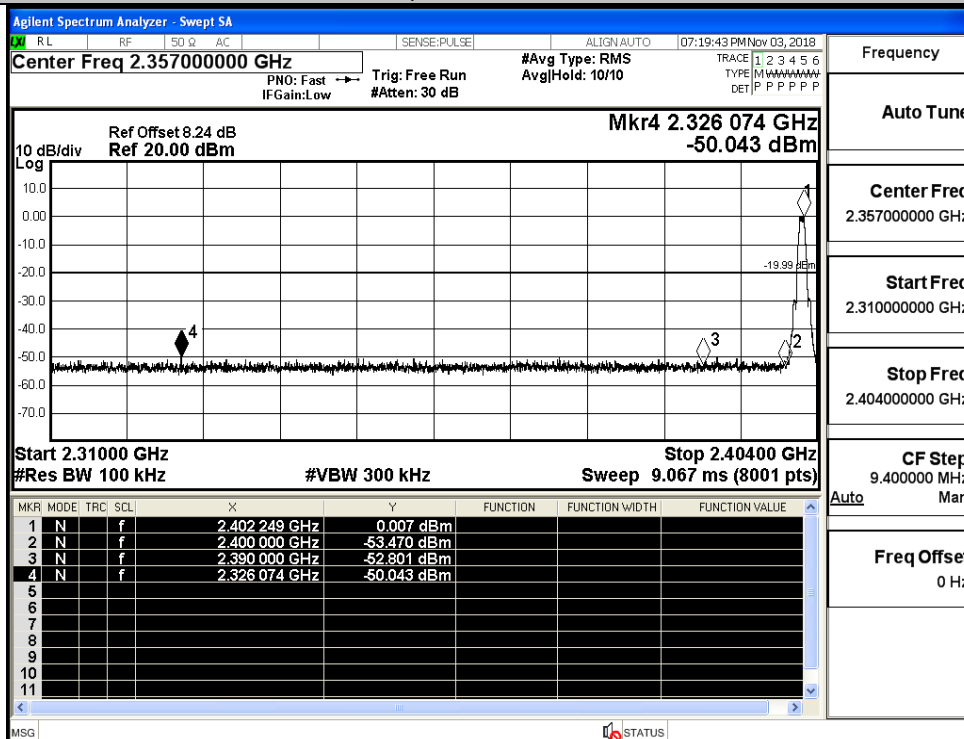


## B.7 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | 0.007              | -50.043                  | -19.99      | PASS    |
| BT LE | HCH     | -0.270             | -50.149                  | -20.27      | PASS    |

Test Graphs

LCH

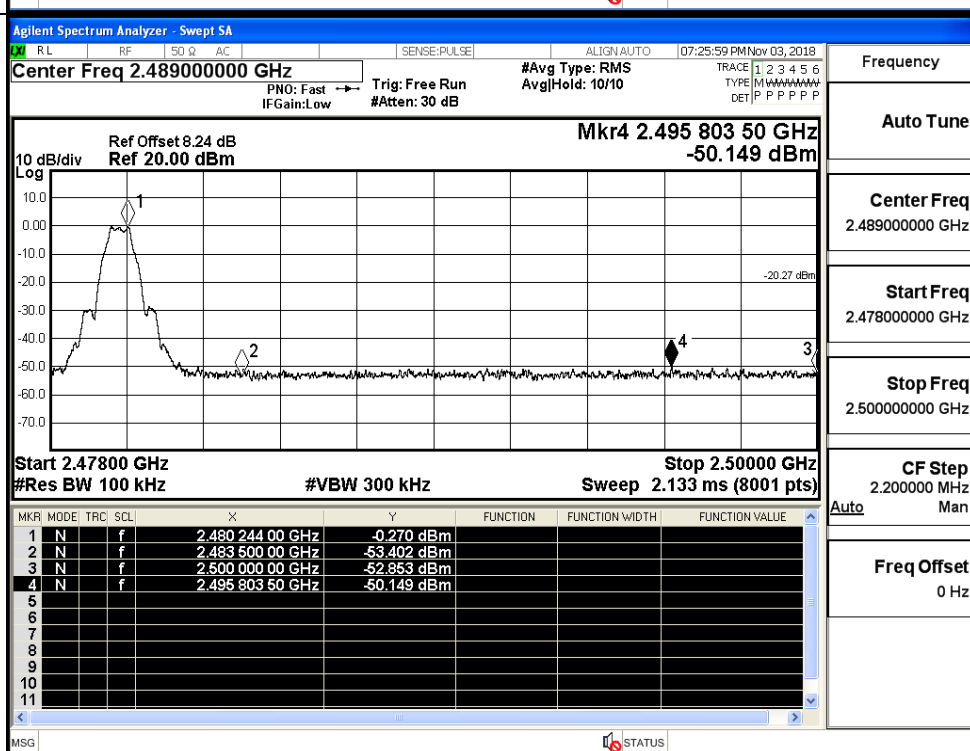


Frequency

Auto Tune

Center Freq  
2.357000000 GHzStart Freq  
2.310000000 GHzStop Freq  
2.404000000 GHzCF Step  
9.400000 MHz  
Auto ManFreq Offset  
0 Hz

HCH



Frequency

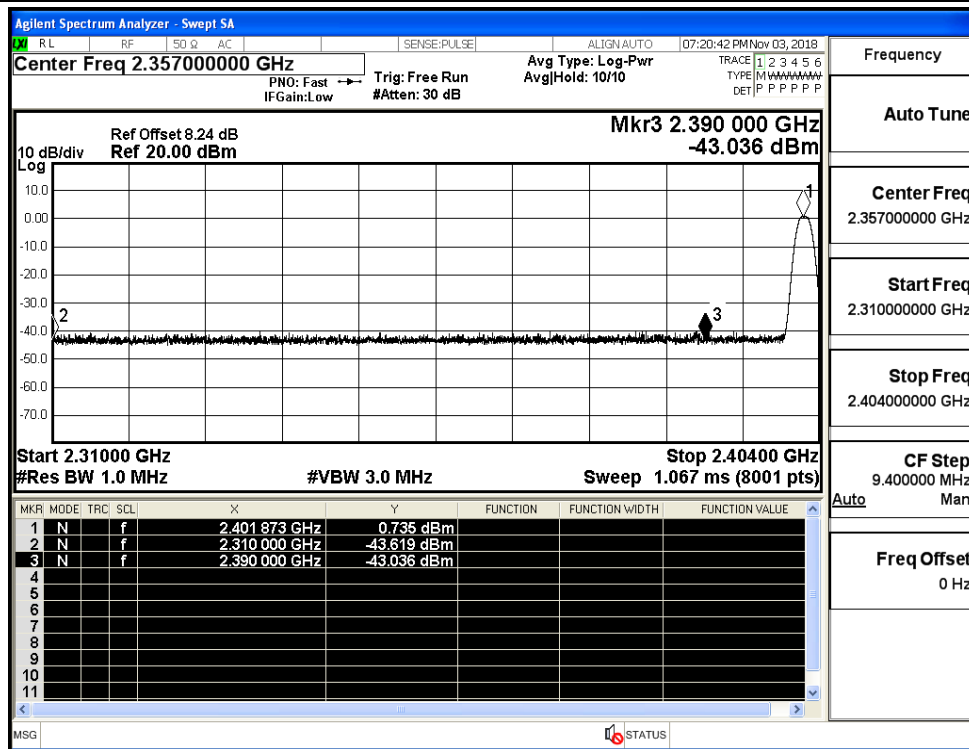
Auto Tune

Center Freq  
2.489000000 GHzStart Freq  
2.478000000 GHzStop Freq  
2.500000000 GHzCF Step  
2.200000 MHz  
Auto ManFreq Offset  
0 Hz

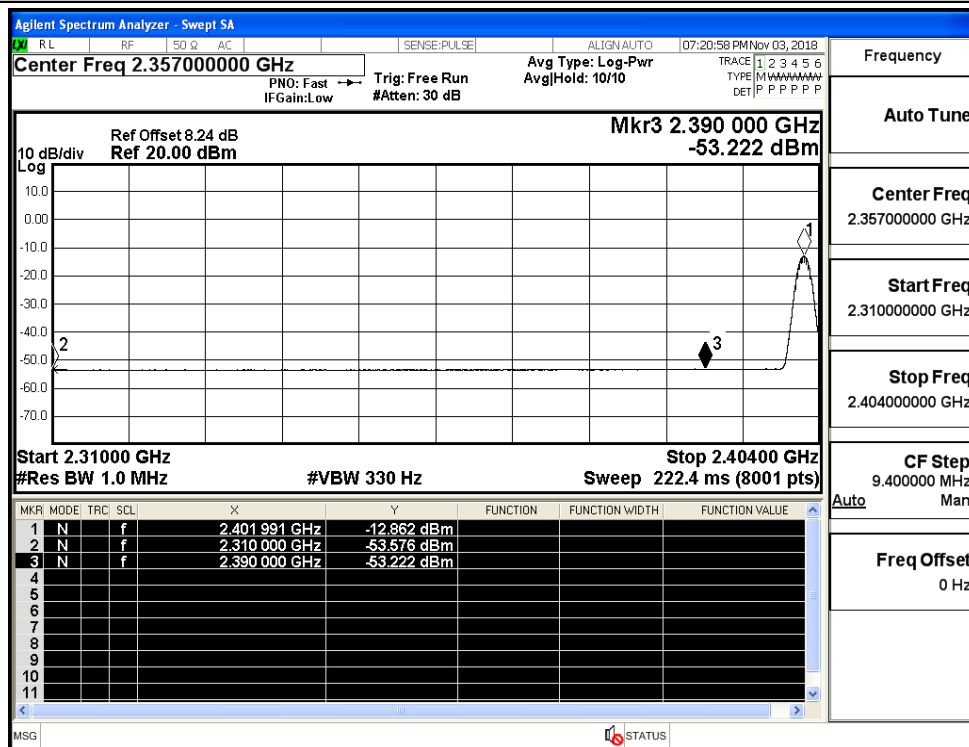
**B.8 Restrict-band band-edge measurements**

| 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 | -43.62      | 2.6  | 0             | 54.18      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -53.58      | 2.6  | 0             | 44.22      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -43.04      | 2.6  | 0             | 54.76      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -53.22      | 2.6  | 0             | 44.58      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -43.74      | 2.6  | 0             | 54.06      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -52.97      | 2.6  | 0             | 44.83      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -41.00      | 2.6  | 0             | 56.80      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -52.92      | 2.6  | 0             | 44.88      | AV       | 54             | PASS  |

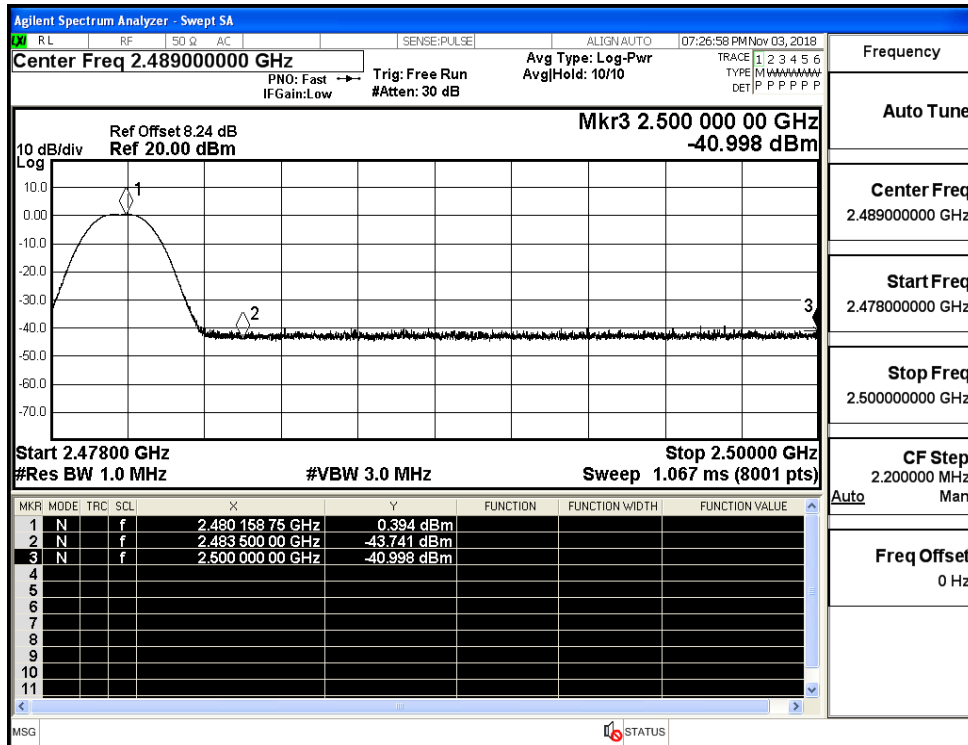
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

