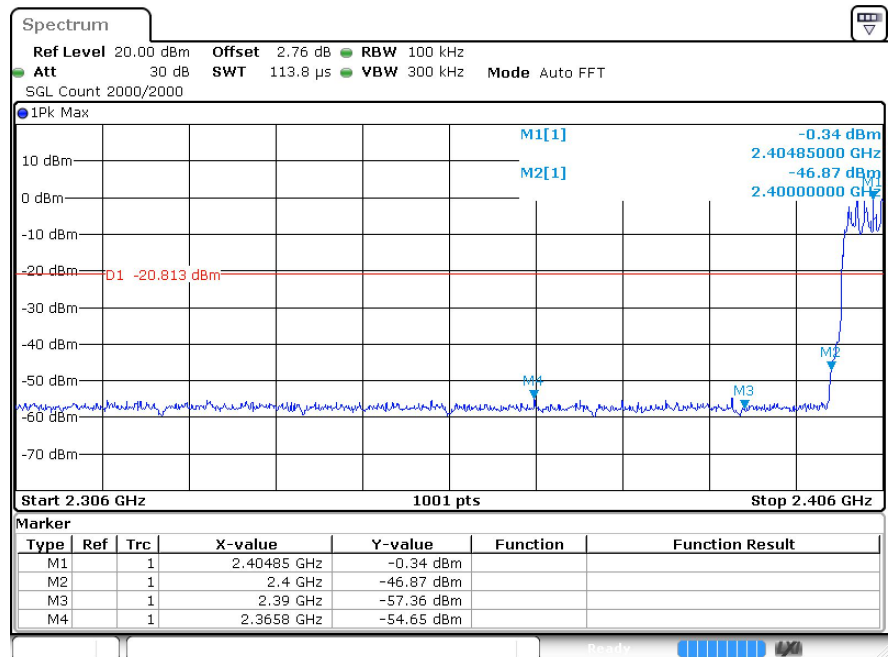


Ref



8DPSK/LCH/Hop



Ref

Spectrum

Ref Level 20.00 dBm Offset 2.81 dB RBW 100 kHz  
Att 30 dB SWT 18.9  $\mu$ s VBW 300 kHz Mode Auto FFT  
SGL Count 100/100

1Pk Max

M1[1] -0.31 dBm  
2.47998400 GHz

10 dBm  
0 dBm  
-10 dBm  
-20 dBm  
-30 dBm  
-40 dBm  
-50 dBm  
-60 dBm  
-70 dBm

CF 2.48 GHz 1001 pts Span 8.0 MHz

8DPSK/HCH/No Hop

Spectrum

Ref Level 20.00 dBm Offset 2.81 dB RBW 100 kHz  
Att 30 dB SWT 113.8  $\mu$ s VBW 300 kHz Mode Auto FFT  
SGL Count 100/100

1Pk Max

M1[1] -0.21 dBm  
2.48015000 GHz  
M2[1] -56.59 dBm  
2.48350000 GHz

D1 -20.308 dBm

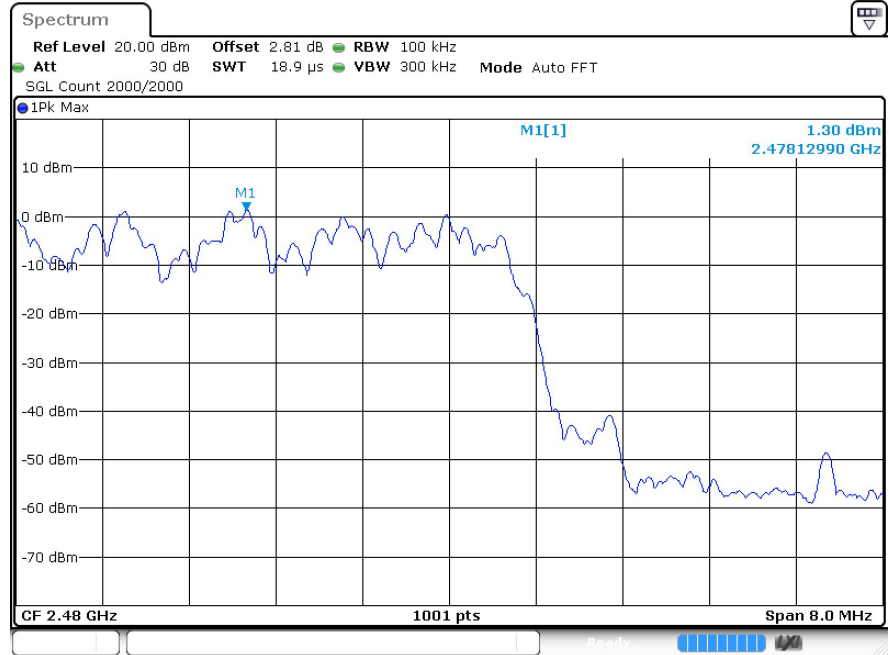
M4  
M2  
M3

10 dBm  
0 dBm  
-10 dBm  
-20 dBm  
-30 dBm  
-40 dBm  
-50 dBm  
-60 dBm  
-70 dBm

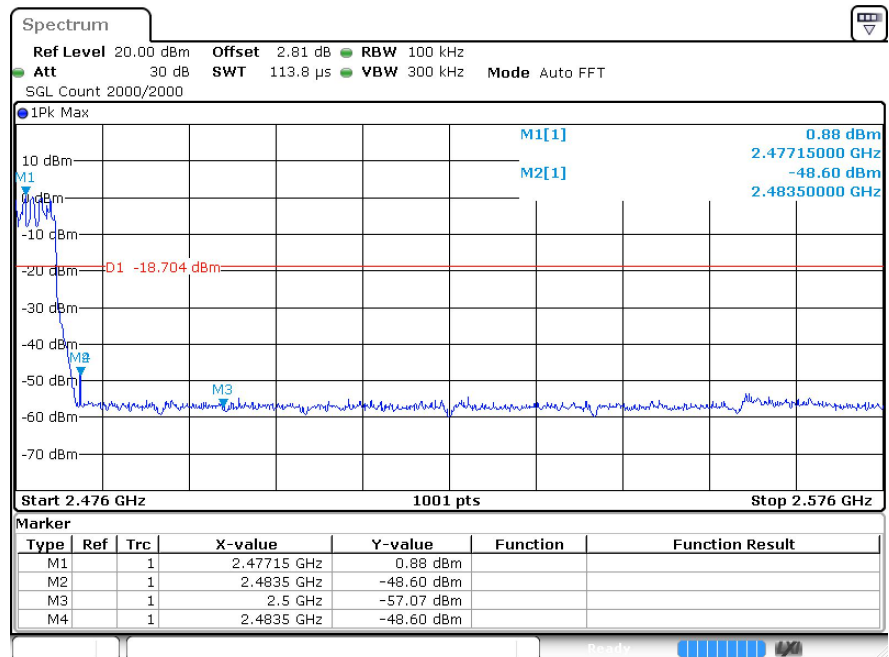
Start 2.476 GHz 1001 pts Stop 2.576 GHz

| Type | Ref | Trc | X-value     | Y-value    | Function | Function Result |
|------|-----|-----|-------------|------------|----------|-----------------|
| M1   |     | 1   | 2.48015 GHz | -0.21 dBm  |          |                 |
| M2   |     | 1   | 2.4835 GHz  | -56.59 dBm |          |                 |
| M3   |     | 1   | 2.5 GHz     | -58.07 dBm |          |                 |
| M4   |     | 1   | 2.4874 GHz  | -47.13 dBm |          |                 |

Ref



8DPSK/HCH/Hop



## 9 Restrict-band band-edge measurements

### 9.1 Test Result

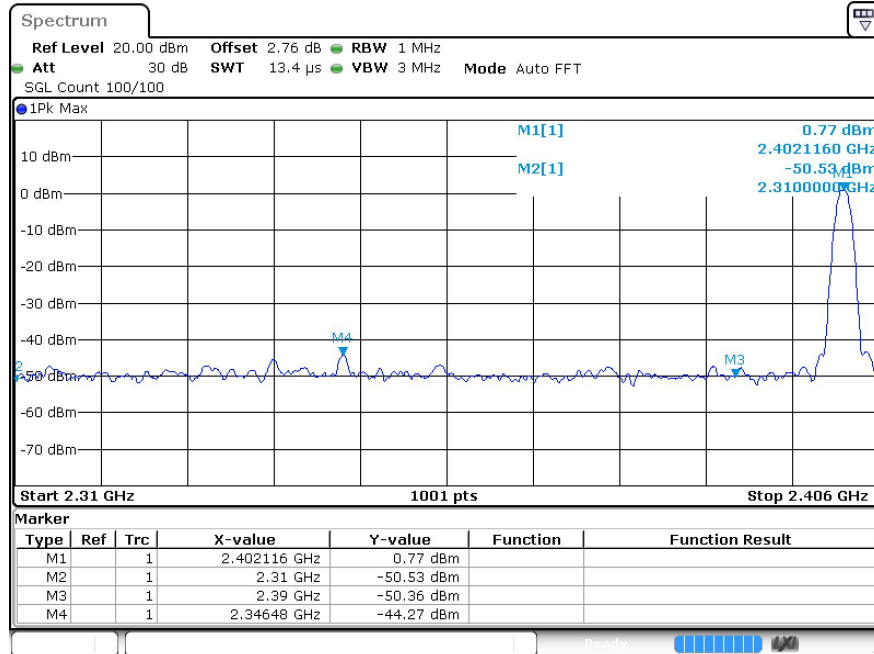
| Test Mode     | Hopping | Freq.    | Power [dBm] | Gain | Duty Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|---------------|---------|----------|-------------|------|-------------|------------|----------|----------------|---------|
| GFSK          | Off     | 2310.0   | -50.53      | 2    | -           | 46.73      | PEAK     | 74             | Pass    |
|               | Off     | 2310.0   | -56.86      | 2    | 4.96        | 45.36      | AV       | 54             | Pass    |
|               | Off     | 2346.48  | -44.27      | 2    | -           | 52.99      | PEAK     | 74             | Pass    |
|               | Off     | 2339.376 | -54.11      | 2    | 4.96        | 48.11      | AV       | 54             | Pass    |
|               | Off     | 2390.0   | -50.36      | 2    | -           | 46.9       | PEAK     | 74             | Pass    |
|               | Off     | 2390.0   | -56.41      | 2    | 4.96        | 45.81      | AV       | 54             | Pass    |
|               | Off     | 2483.5   | -49.82      | 2    | -           | 47.44      | PEAK     | 74             | Pass    |
|               | Off     | 2483.5   | -56.87      | 2    | 5.06        | 45.45      | AV       | 54             | Pass    |
|               | Off     | 2487.28  | -46.24      | 2    | -           | 51.02      | PEAK     | 74             | Pass    |
|               | Off     | 2498.728 | -55.47      | 2    | 5.06        | 46.85      | AV       | 54             | Pass    |
|               | Off     | 2500.0   | -48.87      | 2    | -           | 48.39      | PEAK     | 74             | Pass    |
|               | Off     | 2500.0   | -56.2       | 2    | 5.06        | 46.12      | AV       | 54             | Pass    |
| $\pi/4$ DQPSK | Off     | 2310.0   | -49.14      | 2    | -           | 48.12      | PEAK     | 74             | Pass    |
|               | Off     | 2310.0   | -57.2       | 2    | 4.94        | 45         | AV       | 54             | Pass    |
|               | Off     | 2342.256 | -45.76      | 2    | -           | 51.5       | PEAK     | 74             | Pass    |
|               | Off     | 2342.064 | -54.62      | 2    | 4.94        | 47.58      | AV       | 54             | Pass    |
|               | Off     | 2390.0   | -49.94      | 2    | -           | 47.32      | PEAK     | 74             | Pass    |
|               | Off     | 2390.0   | -57.32      | 2    | 4.94        | 44.88      | AV       | 54             | Pass    |
|               | Off     | 2483.5   | -47.94      | 2    | -           | 49.32      | PEAK     | 74             | Pass    |
|               | Off     | 2483.5   | -56.13      | 2    | 4.95        | 46.08      | AV       | 54             | Pass    |
|               | Off     | 2498.152 | -46.39      | 2    | -           | 50.87      | PEAK     | 74             | Pass    |
|               | Off     | 2492.392 | -55.42      | 2    | 4.95        | 46.79      | AV       | 54             | Pass    |
|               | Off     | 2500.0   | -48.44      | 2    | -           | 48.82      | PEAK     | 74             | Pass    |
|               | Off     | 2500.0   | -56.78      | 2    | 4.95        | 45.43      | AV       | 54             | Pass    |
| 8DPSK         | Off     | 2310.0   | -49.95      | 2    | -           | 47.31      | PEAK     | 74             | Pass    |
|               | Off     | 2310.0   | -57.22      | 2    | 4.95        | 44.99      | AV       | 54             | Pass    |
|               | Off     | 2335.248 | -46.49      | 2    | -           | 50.77      | PEAK     | 74             | Pass    |
|               | Off     | 2341.872 | -53.89      | 2    | 4.95        | 48.32      | AV       | 54             | Pass    |



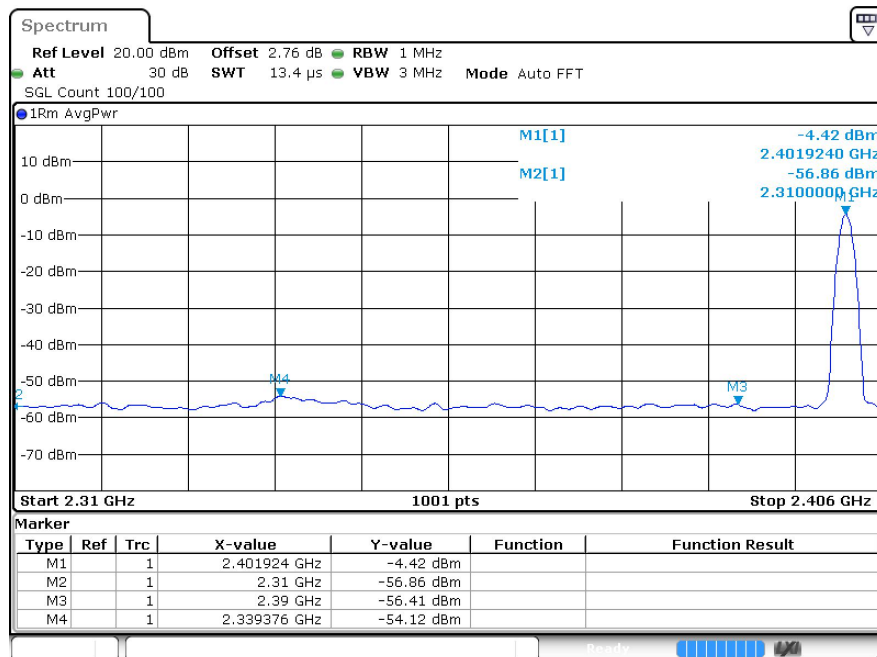
|     |          |        |   |      |       |      |    |      |
|-----|----------|--------|---|------|-------|------|----|------|
| Off | 2390.0   | -52.36 | 2 | -    | 44.9  | PEAK | 74 | Pass |
| Off | 2390.0   | -56.82 | 2 | 4.95 | 45.39 | AV   | 54 | Pass |
| Off | 2483.5   | -47.32 | 2 | -    | 49.94 | PEAK | 74 | Pass |
| Off | 2483.5   | -55.6  | 2 | 4.95 | 46.61 | AV   | 54 | Pass |
| Off | 2483.776 | -46.71 | 2 | -    | 50.55 | PEAK | 74 | Pass |
| Off | 2484.4   | -55    | 2 | 4.95 | 47.21 | AV   | 54 | Pass |
| Off | 2500.0   | -49.45 | 2 | -    | 47.81 | PEAK | 74 | Pass |
| Off | 2500.0   | -56.75 | 2 | 4.95 | 45.46 | AV   | 54 | Pass |

## 9.2 Test Graphs

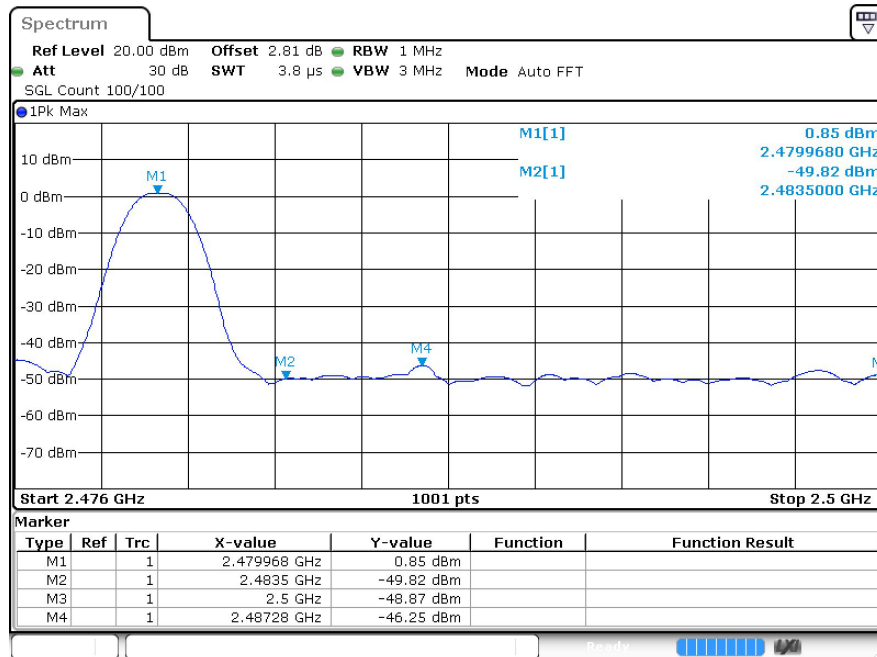
Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (Low Channel)



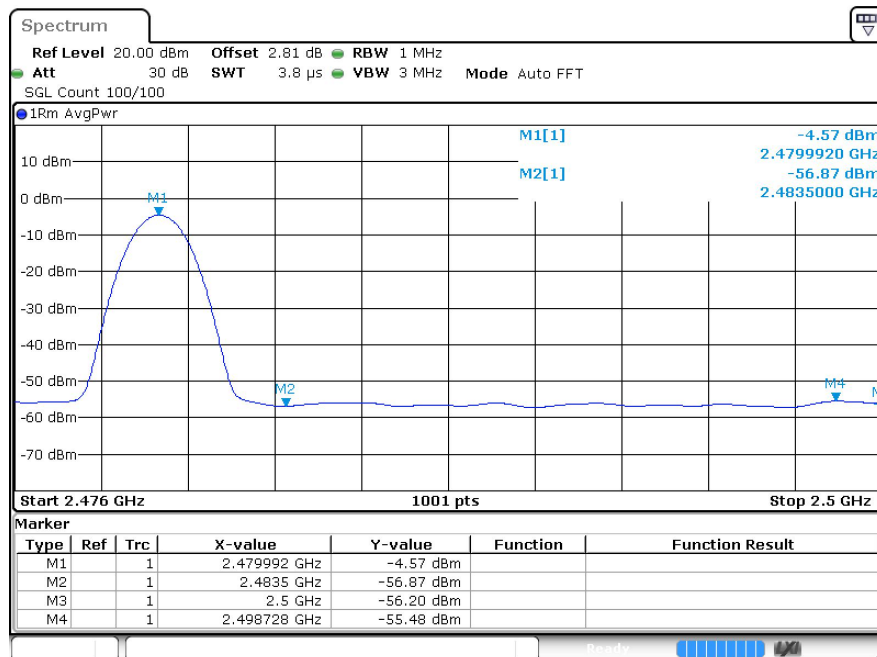
Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



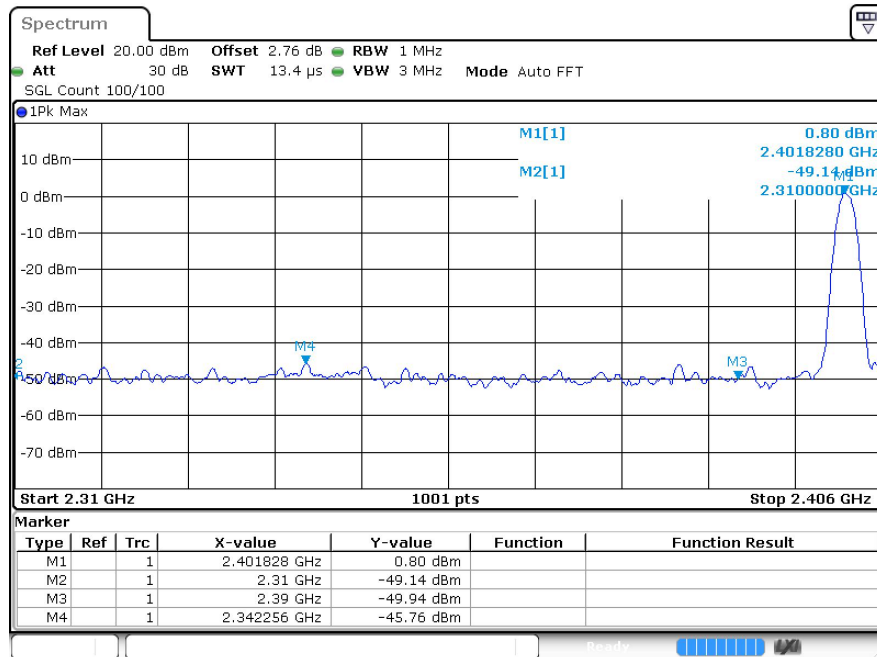
### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



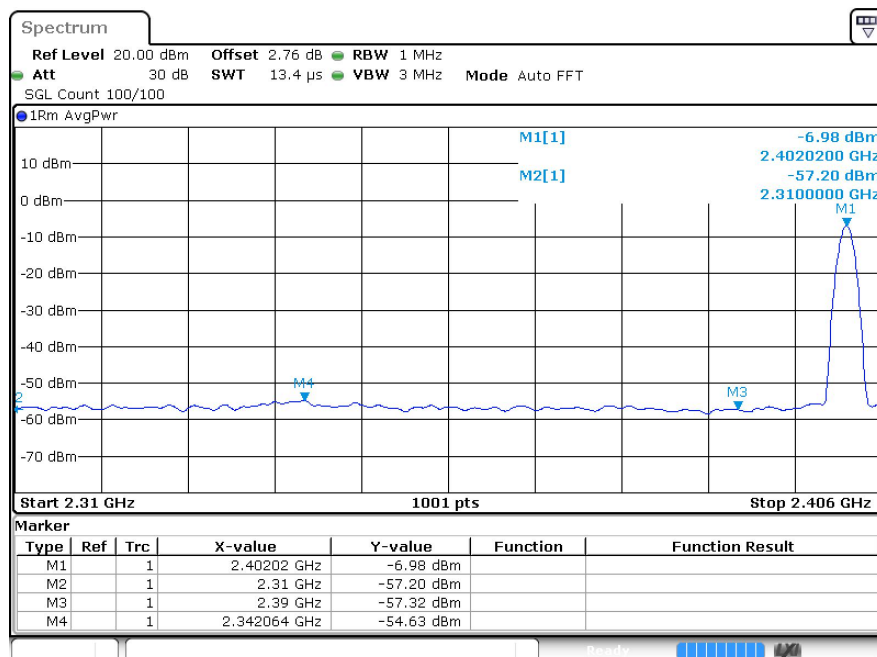
### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)

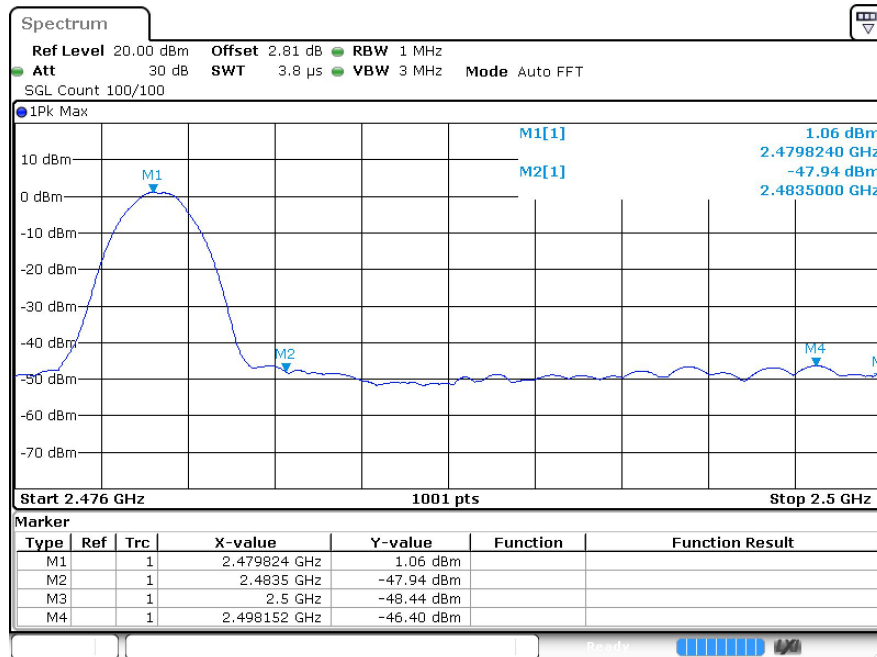


## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)

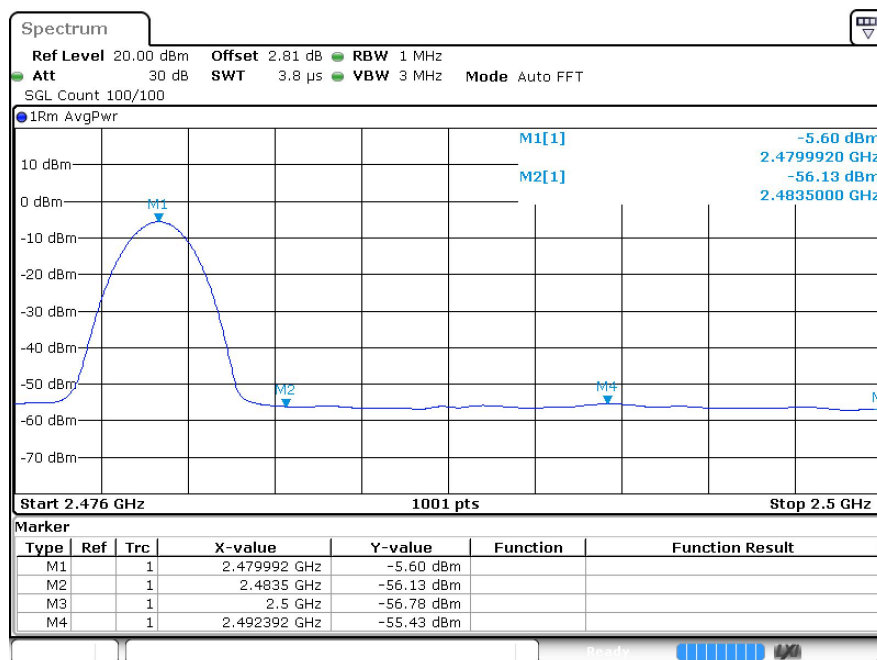




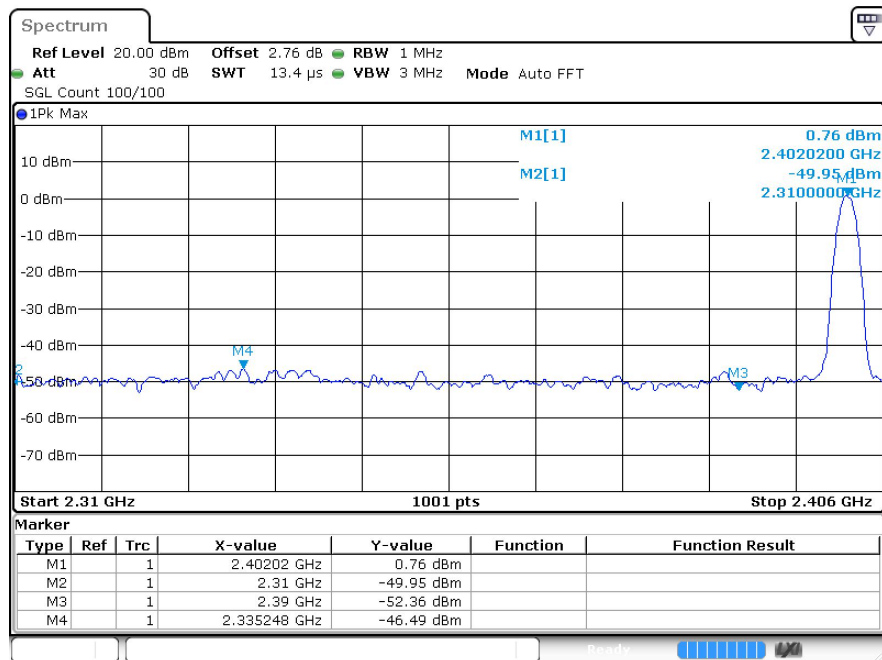
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



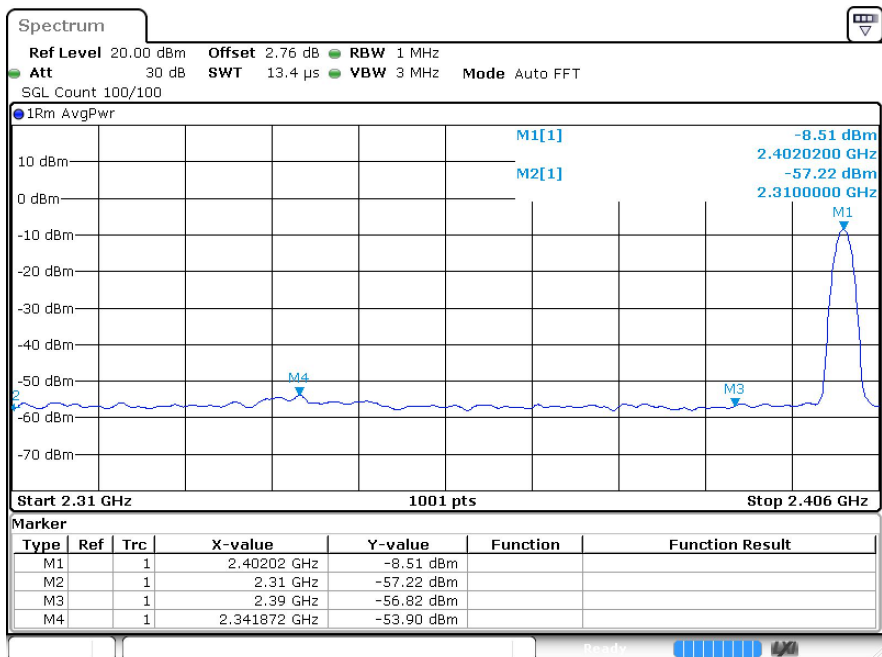
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



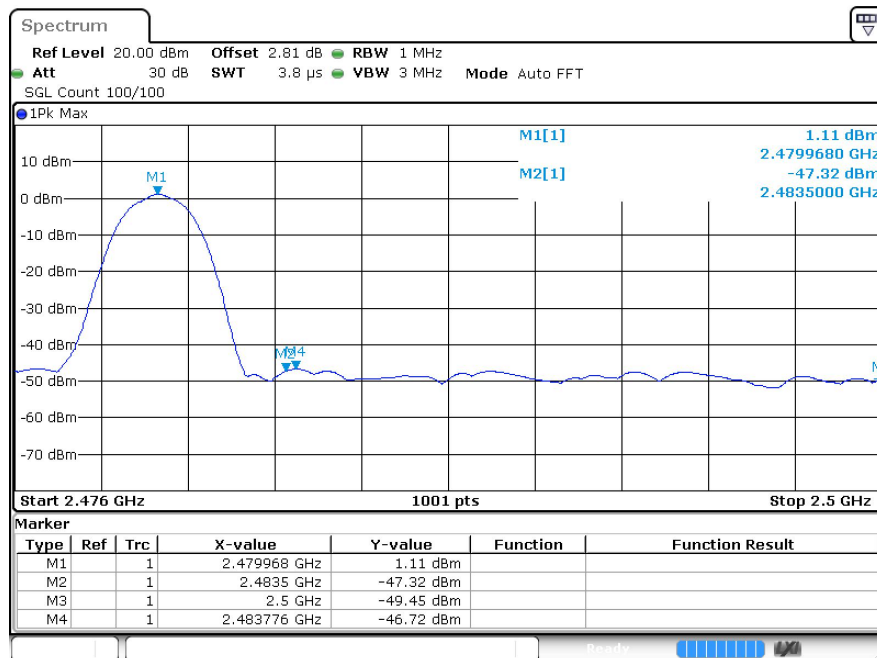
### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



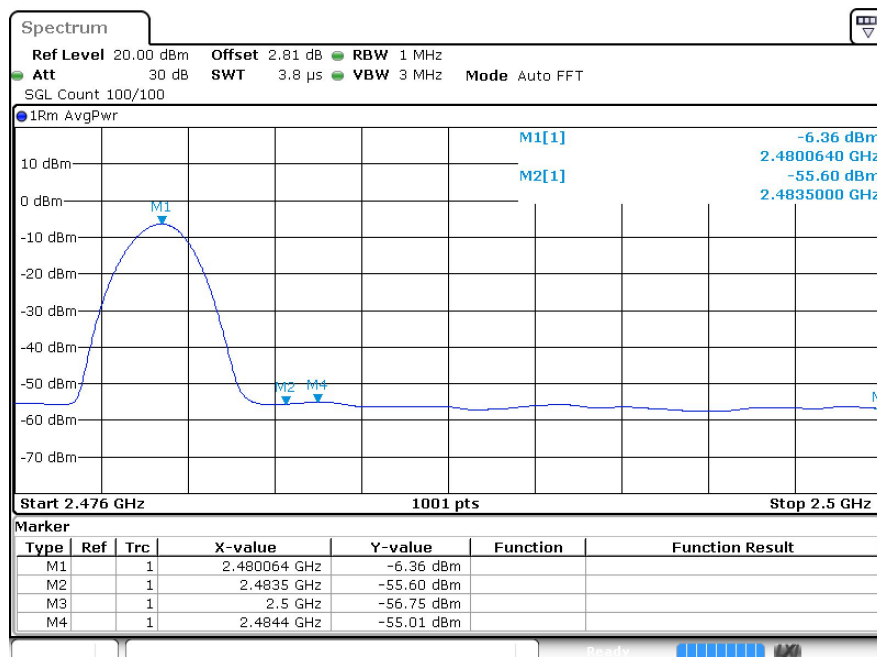
### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (Low Channel)



### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (High Channel)



### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (High Channel)



---The End---