

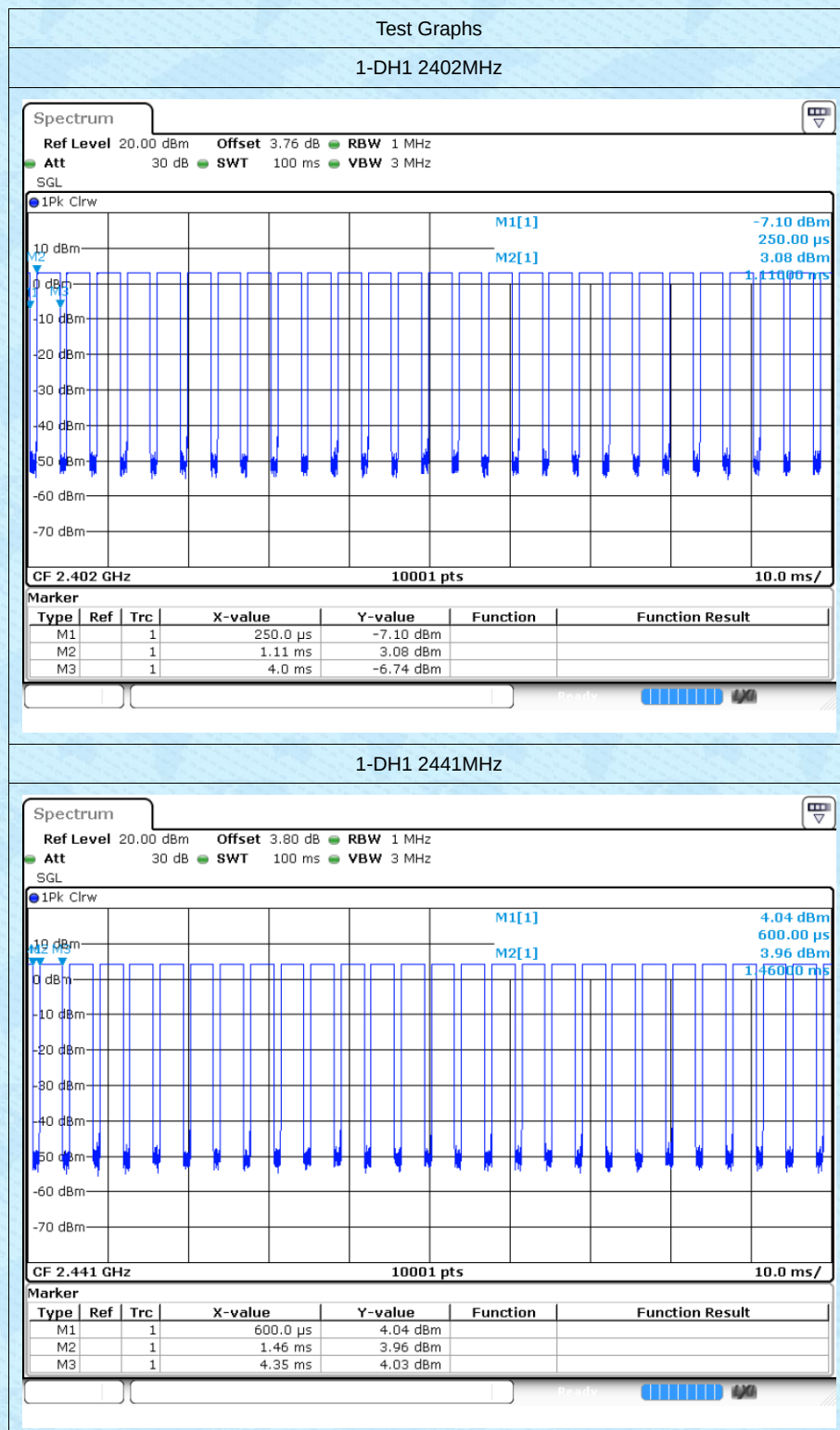
## Appendix A

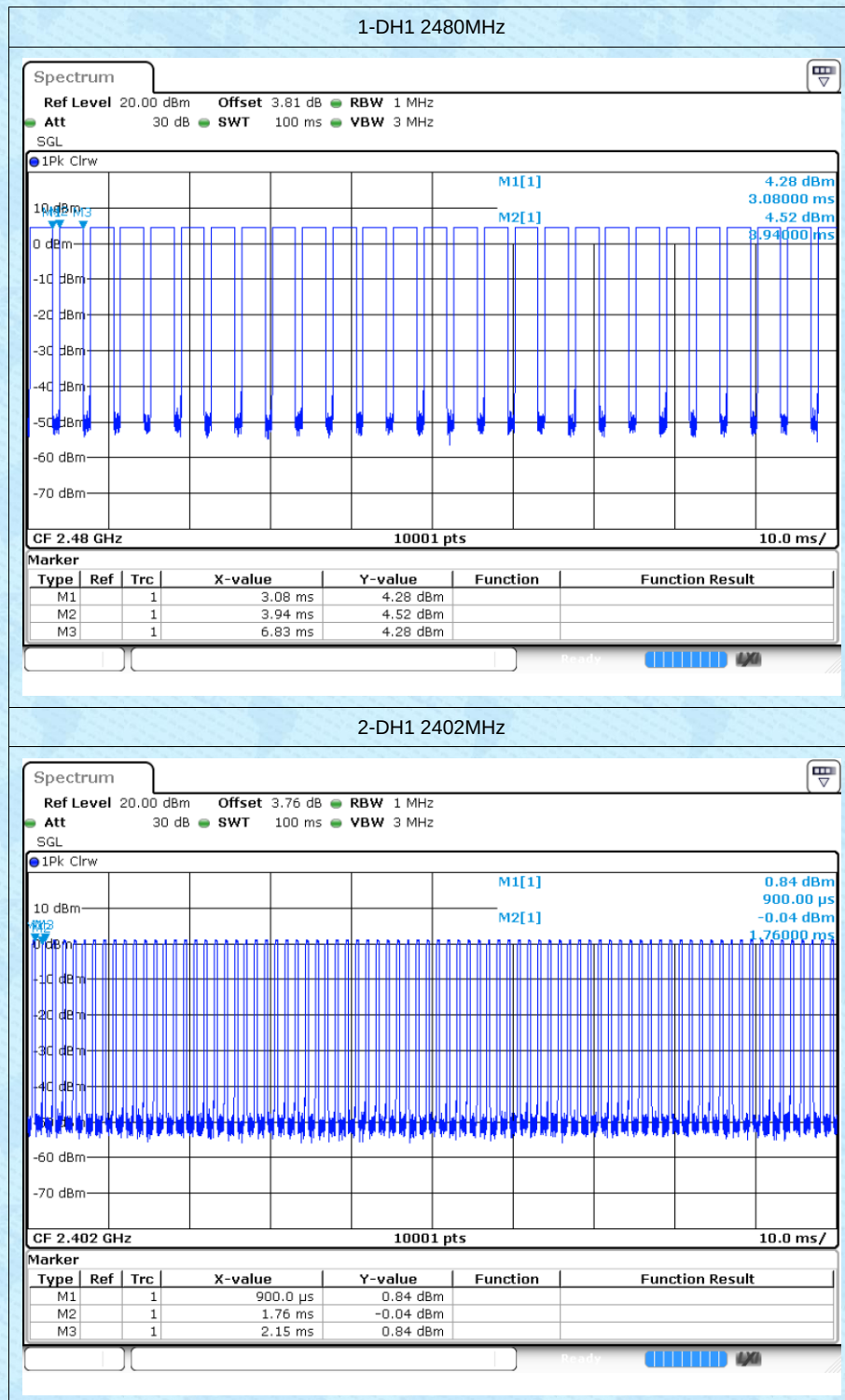
### 1 Duty Cycle

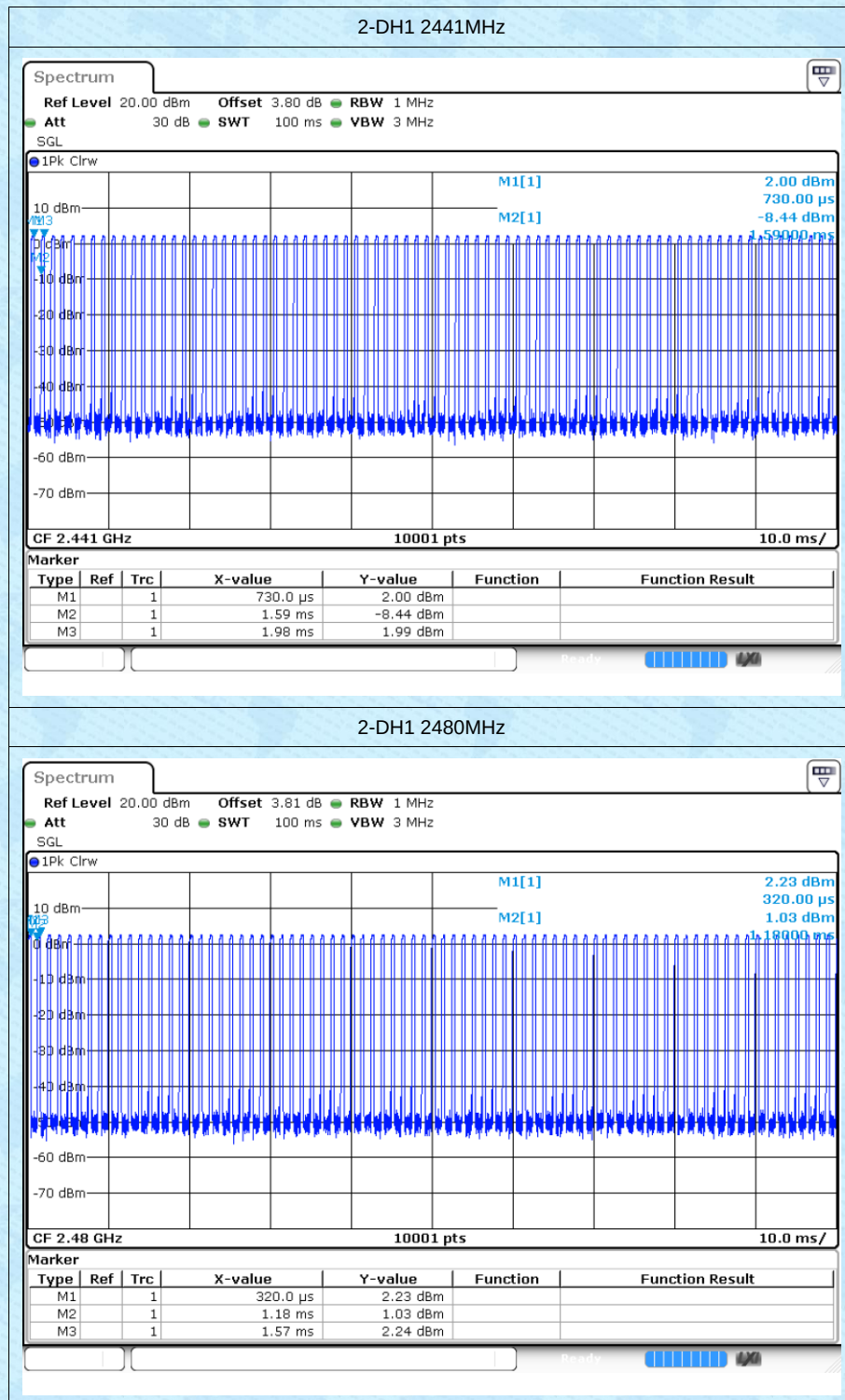
#### 1.1 Test Result

| Mode  | Frequency (MHz) | Duty Cycle (%) | 1/T (kHz) |
|-------|-----------------|----------------|-----------|
| 1-DH1 | 2402            | 77.05          | 0.35      |
| 1-DH1 | 2441            | 77.05          | 0.35      |
| 1-DH1 | 2480            | 77.71          | 0.35      |
| 2-DH1 | 2402            | 32             | 2.56      |
| 2-DH1 | 2441            | 32.07          | 2.56      |
| 2-DH1 | 2480            | 32.02          | 2.56      |
| 3-DH1 | 2402            | 32             | 2.56      |
| 3-DH1 | 2441            | 32.25          | 2.5       |
| 3-DH1 | 2480            | 32.11          | 2.5       |

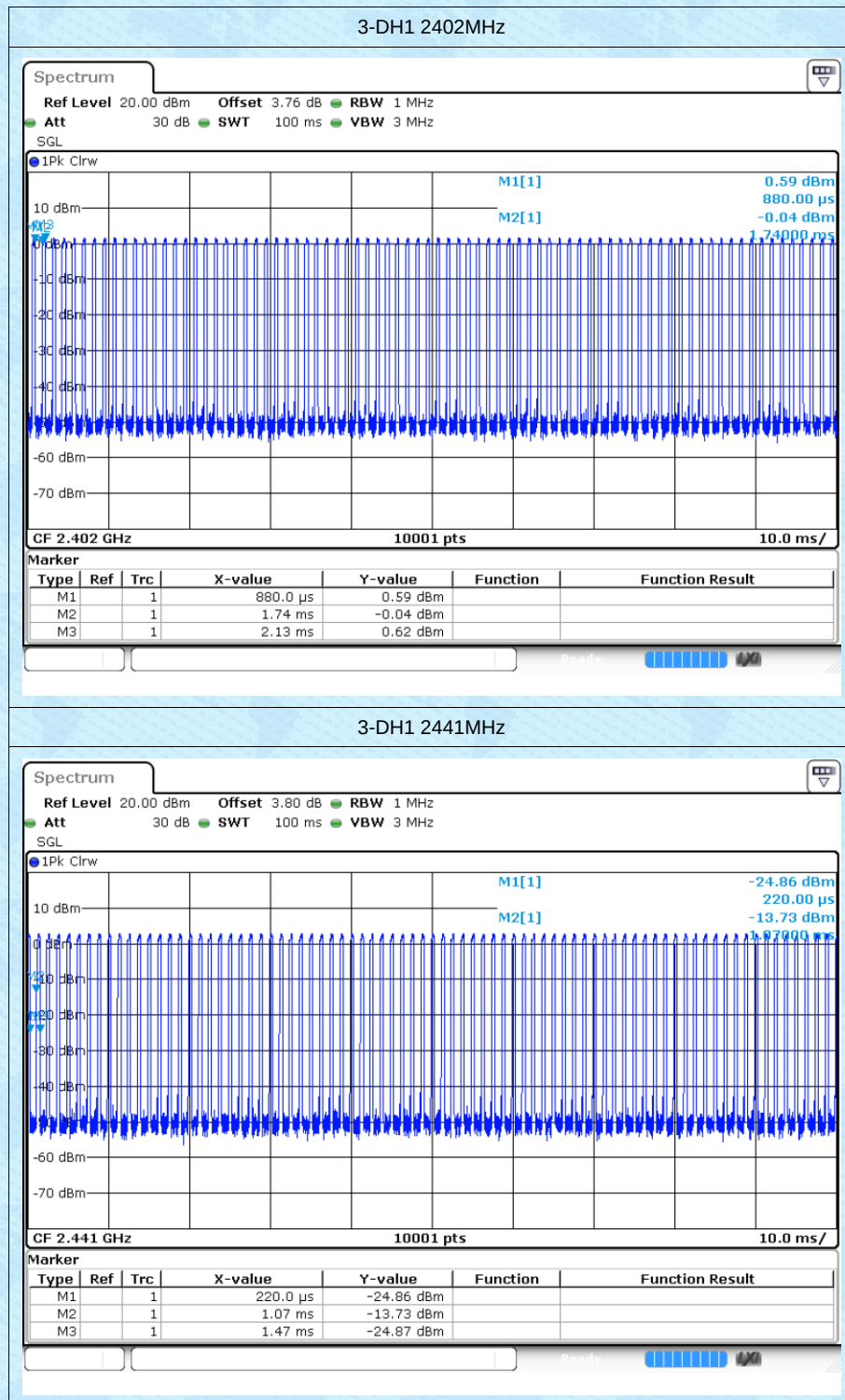
## 1.2 Test Graphs

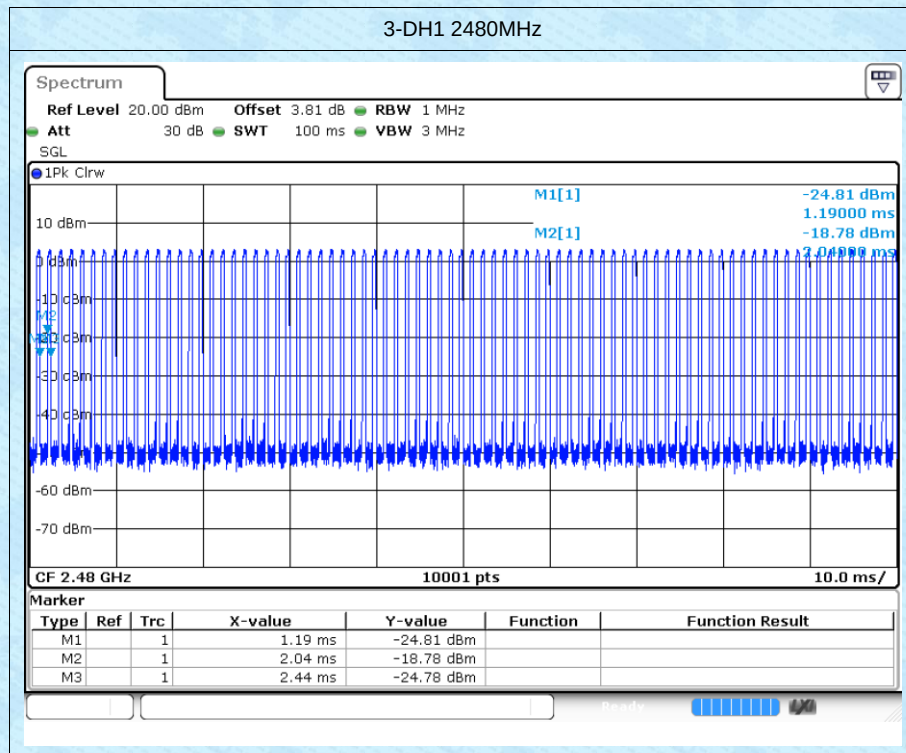










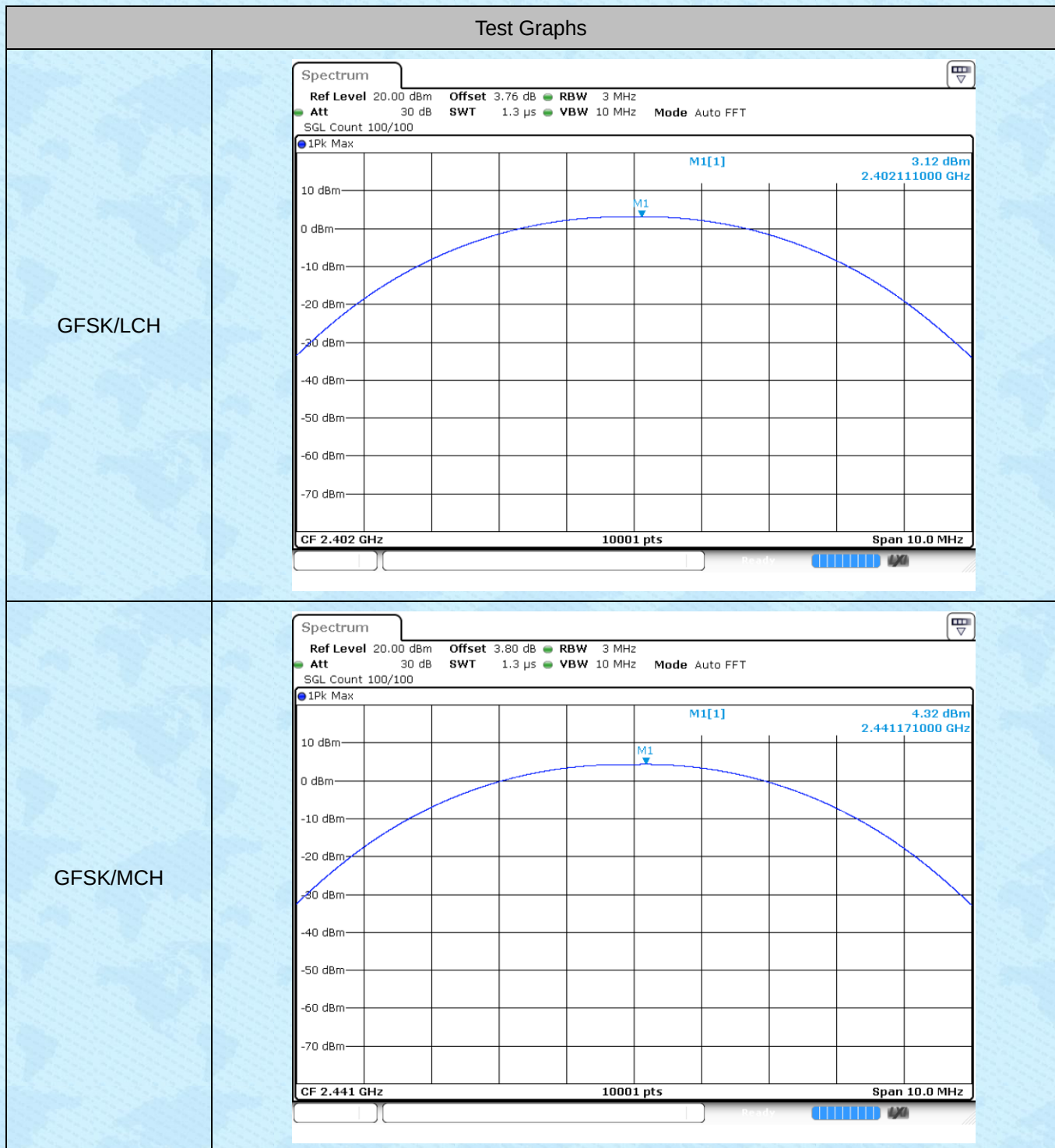


## 2 Maximum Conducted Peak Output Power

### 2.1 Test Result

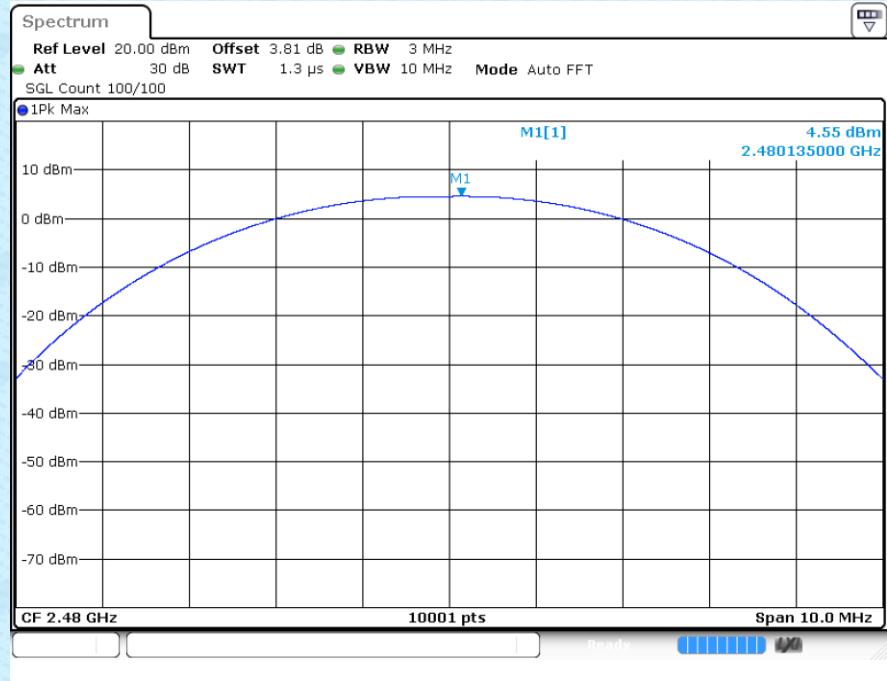
| Mode          | Channel. | Maximum Peak Output Power<br>[dBm] | Limit<br>[dBm] | Verdict |
|---------------|----------|------------------------------------|----------------|---------|
| GFSK          | LCH      | 3.12                               | 21             | Pass    |
|               | MCH      | 4.32                               | 21             | Pass    |
|               | HCH      | 4.55                               | 21             | Pass    |
| $\pi/4$ DQPSK | LCH      | 1.6                                | 21             | Pass    |
|               | MCH      | 3.41                               | 21             | Pass    |
|               | HCH      | 3.55                               | 21             | Pass    |
| 8DPSK         | LCH      | 2.25                               | 21             | Pass    |
|               | MCH      | 3.54                               | 21             | Pass    |
|               | HCH      | 3.48                               | 21             | Pass    |

## 2.2 Test Graphs

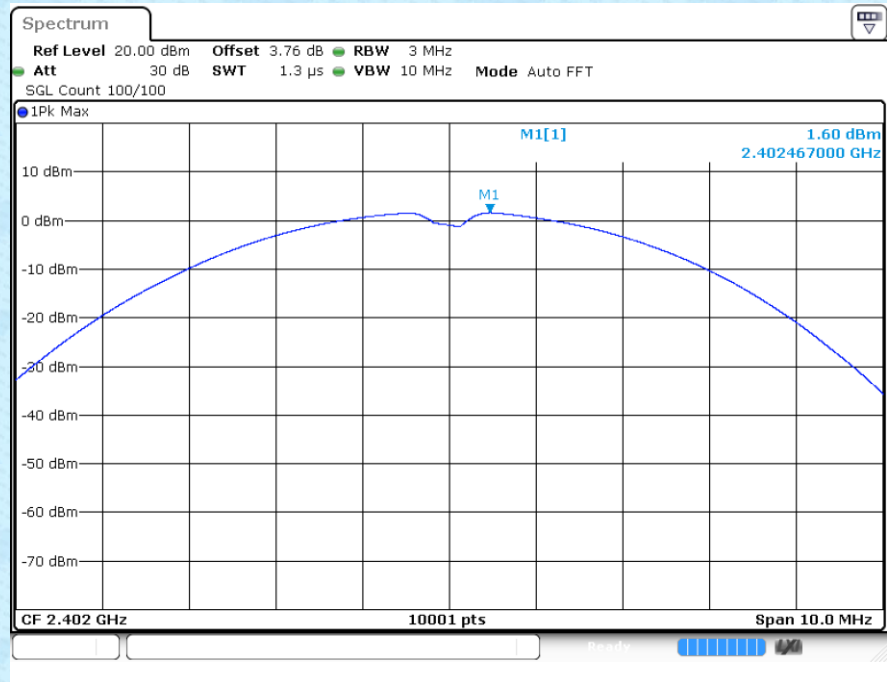


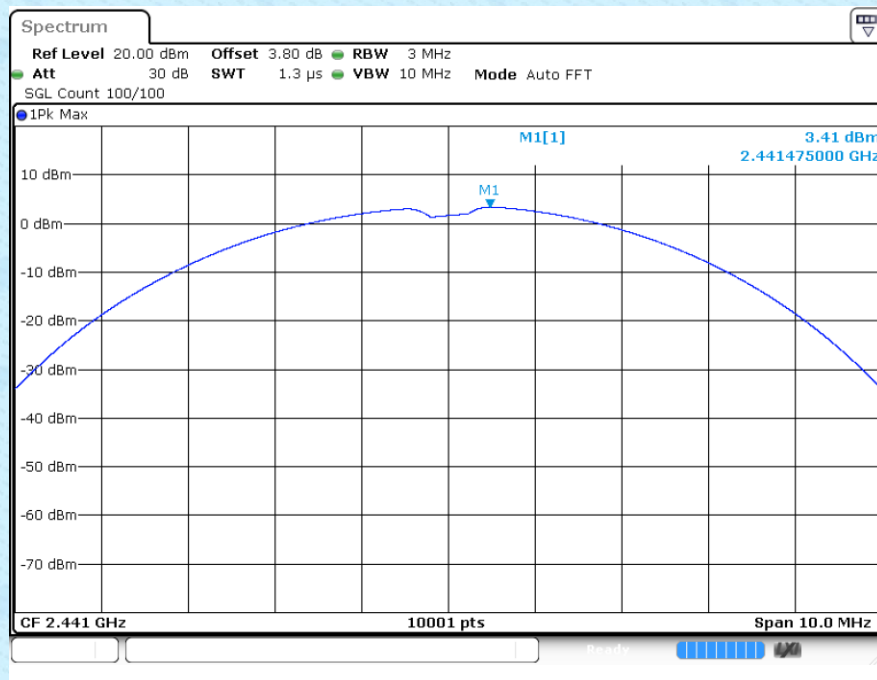
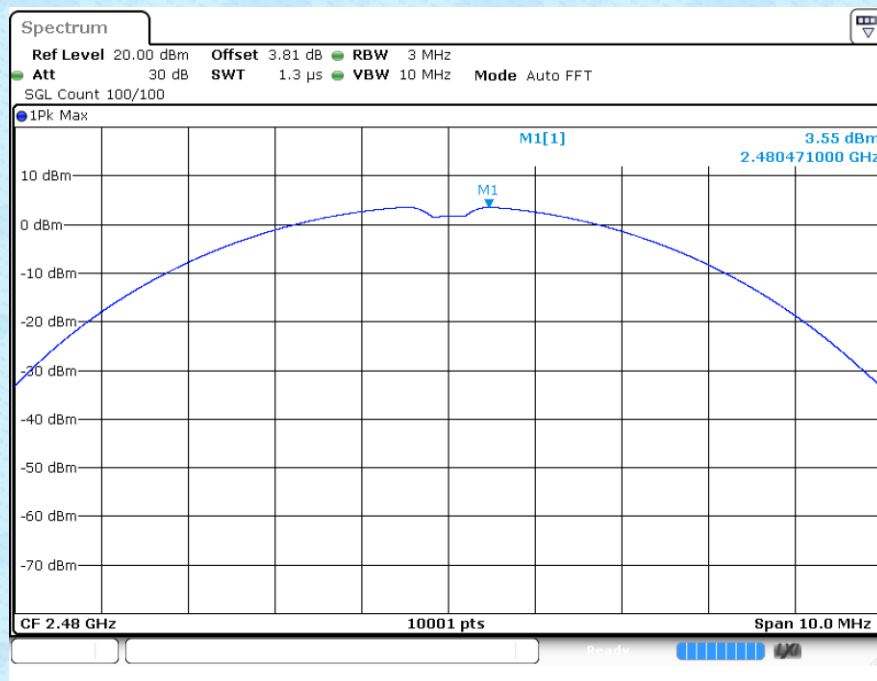


GFSK/HCH

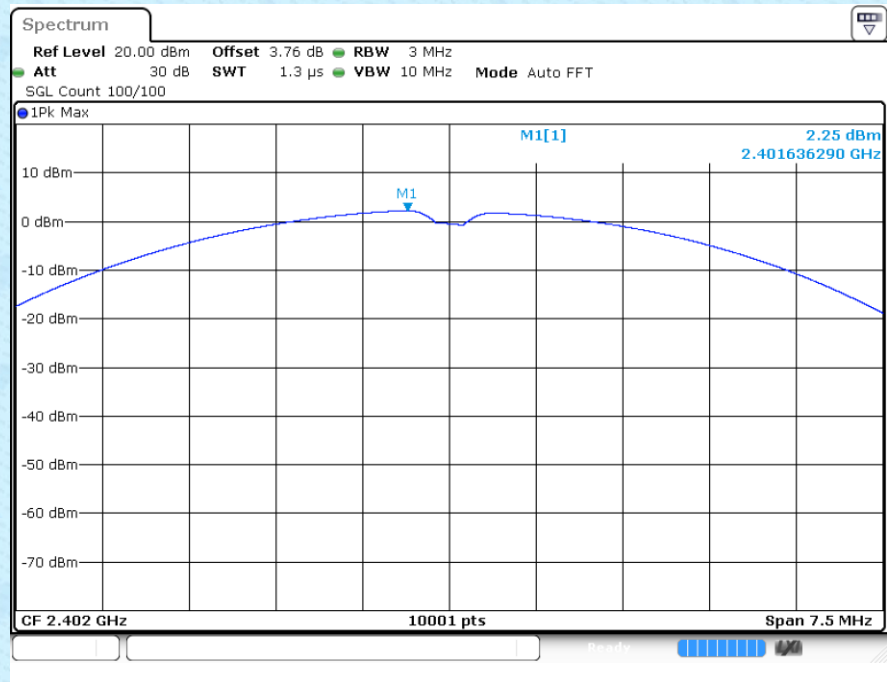


$\pi/4$ DQPSK/LCH

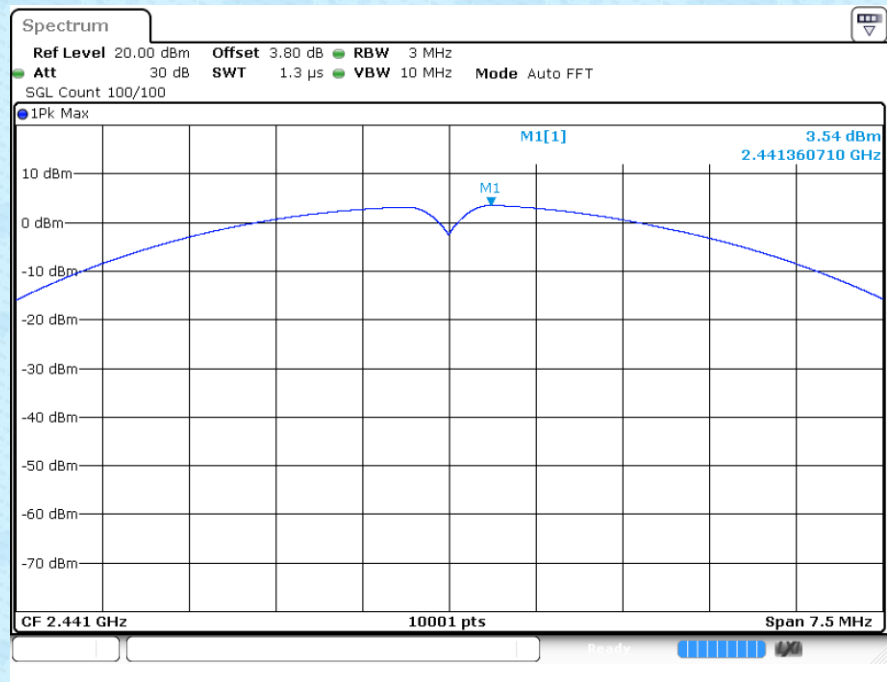


$\pi/4$ DQPSK/MCH $\pi/4$ DQPSK/HCH

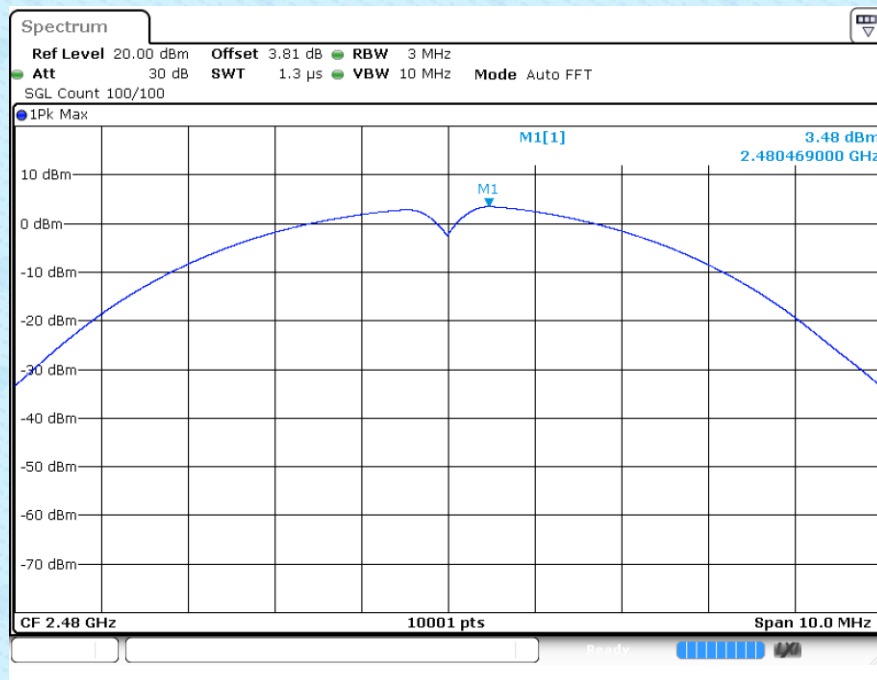
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



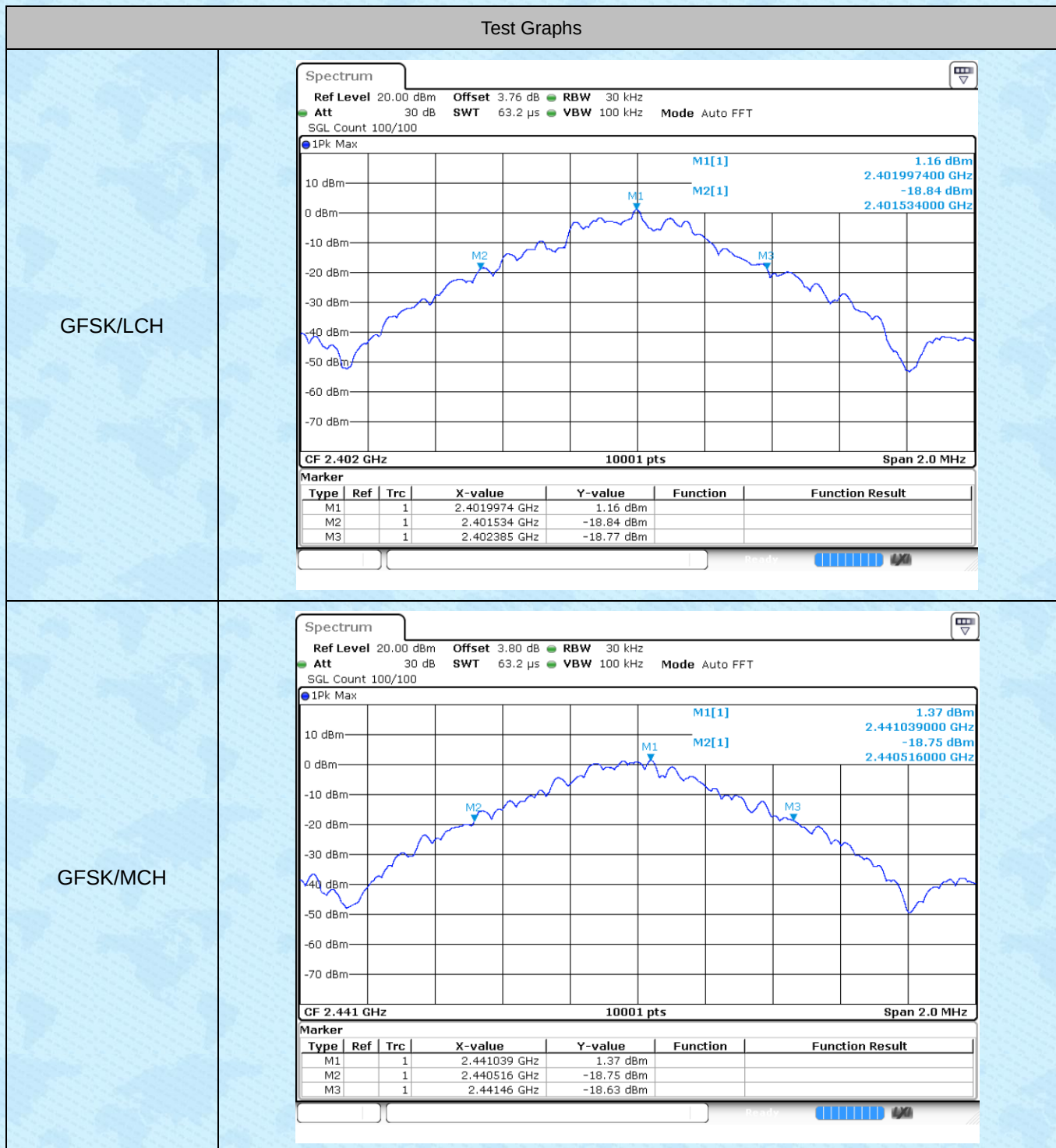


### 3 20dB Bandwidth

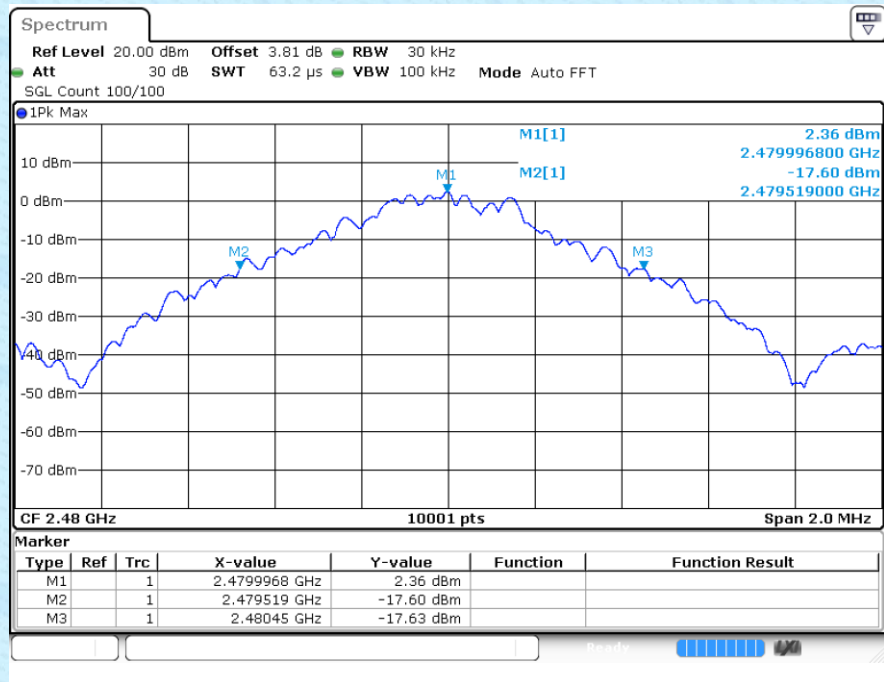
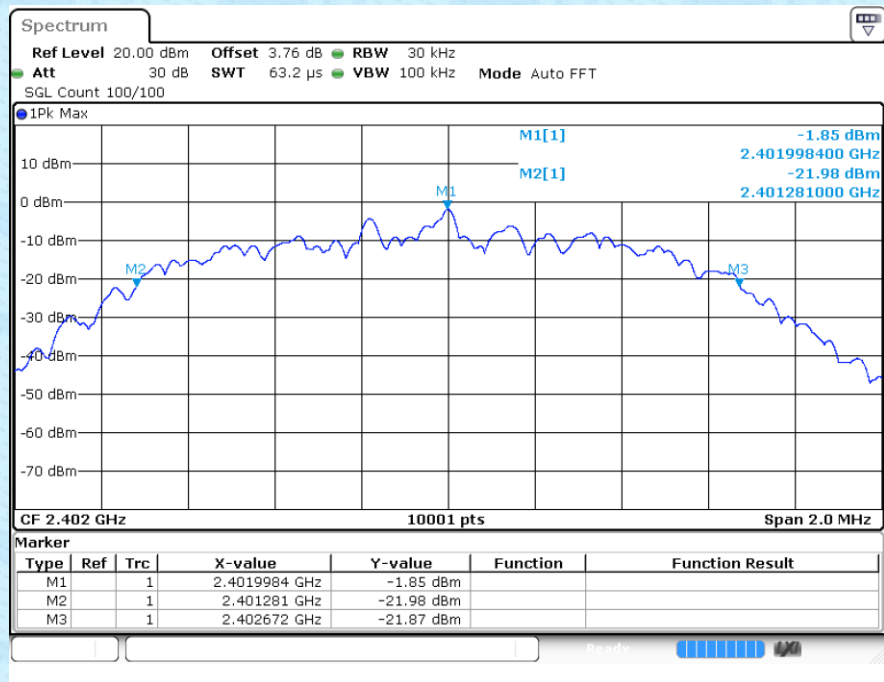
#### 3.1 Test Result

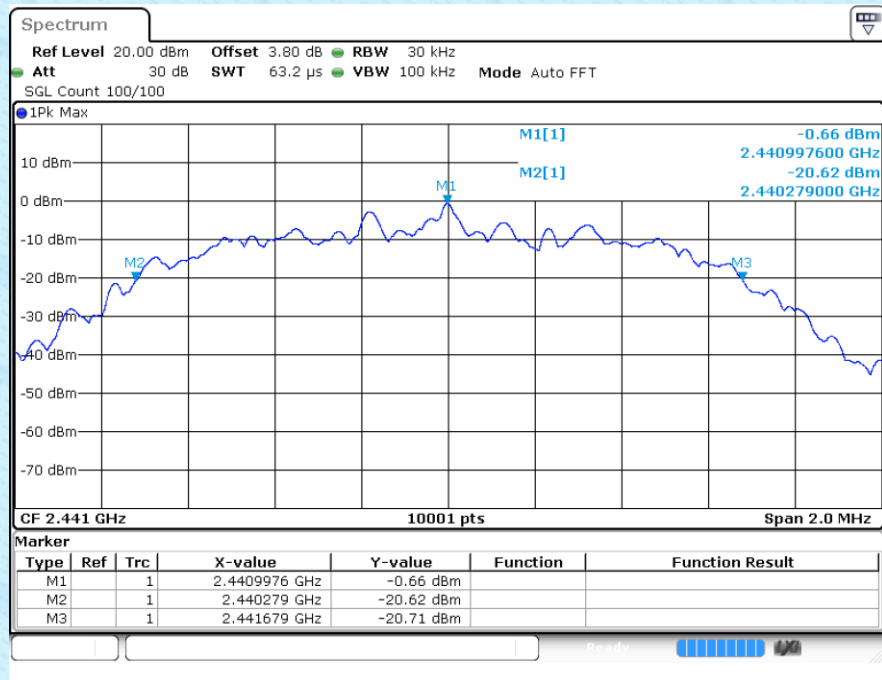
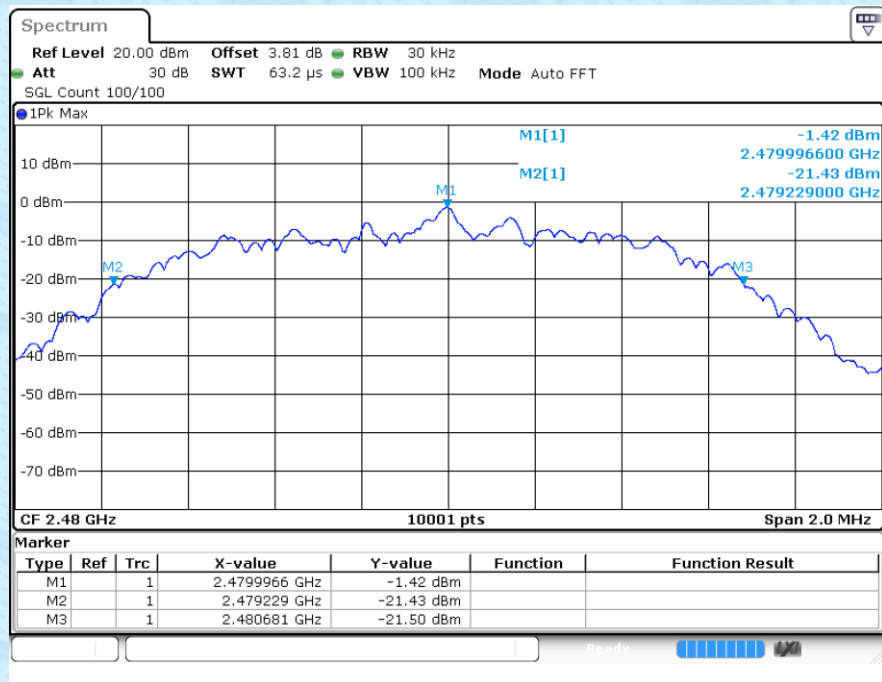
| Mode          | Channel. | 20dB Bandwidth [MHz] | Limit [MHz]   | Verdict |
|---------------|----------|----------------------|---------------|---------|
| GFSK          | LCH      | 0.851                | Not Specified | Pass    |
|               | MCH      | 0.944                | Not Specified | Pass    |
|               | HCH      | 0.932                | Not Specified | Pass    |
| $\pi/4$ DQPSK | LCH      | 1.39                 | Not Specified | Pass    |
|               | MCH      | 1.4                  | Not Specified | Pass    |
|               | HCH      | 1.452                | Not Specified | Pass    |
| 8DPSK         | LCH      | 1.421                | Not Specified | Pass    |
|               | MCH      | 1.438                | Not Specified | Pass    |
|               | HCH      | 1.421                | Not Specified | Pass    |

### 3.2 Test Graphs



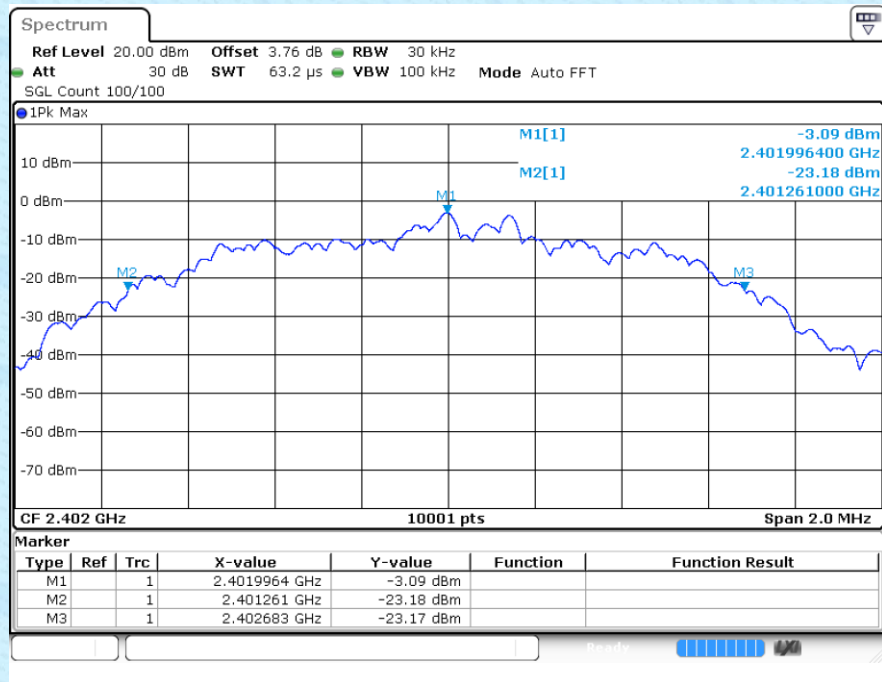
GFSK/HCH

 $\pi$ /4DQPSK/LCH

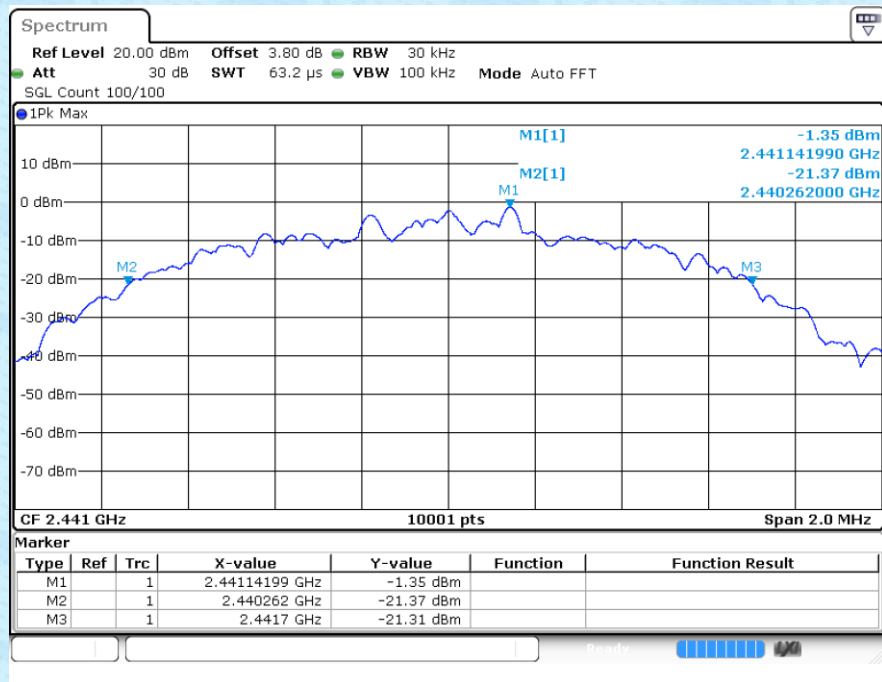
$\pi/4$ DQPSK/MCH $\pi/4$ DQPSK/HCH



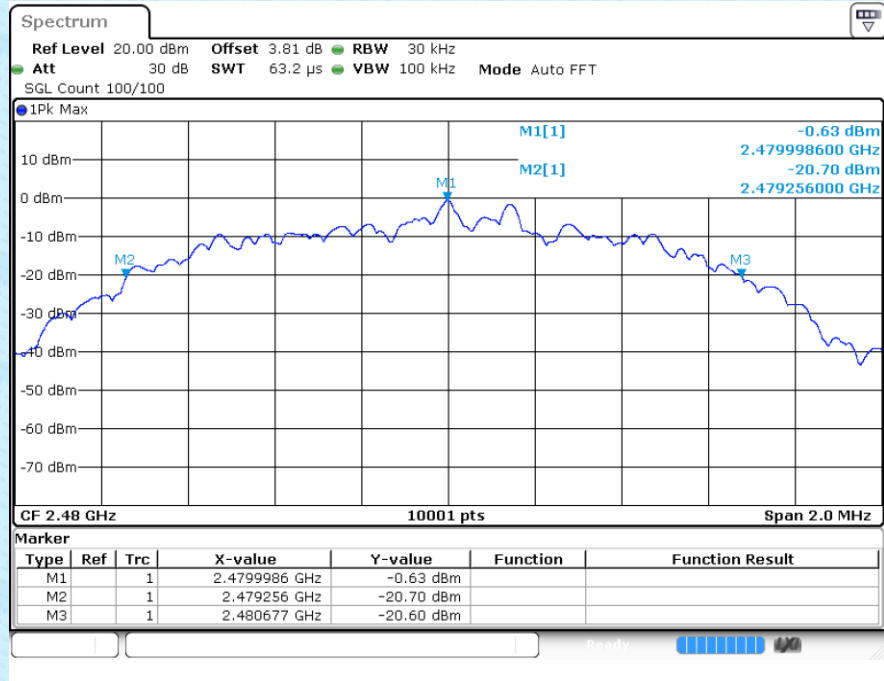
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

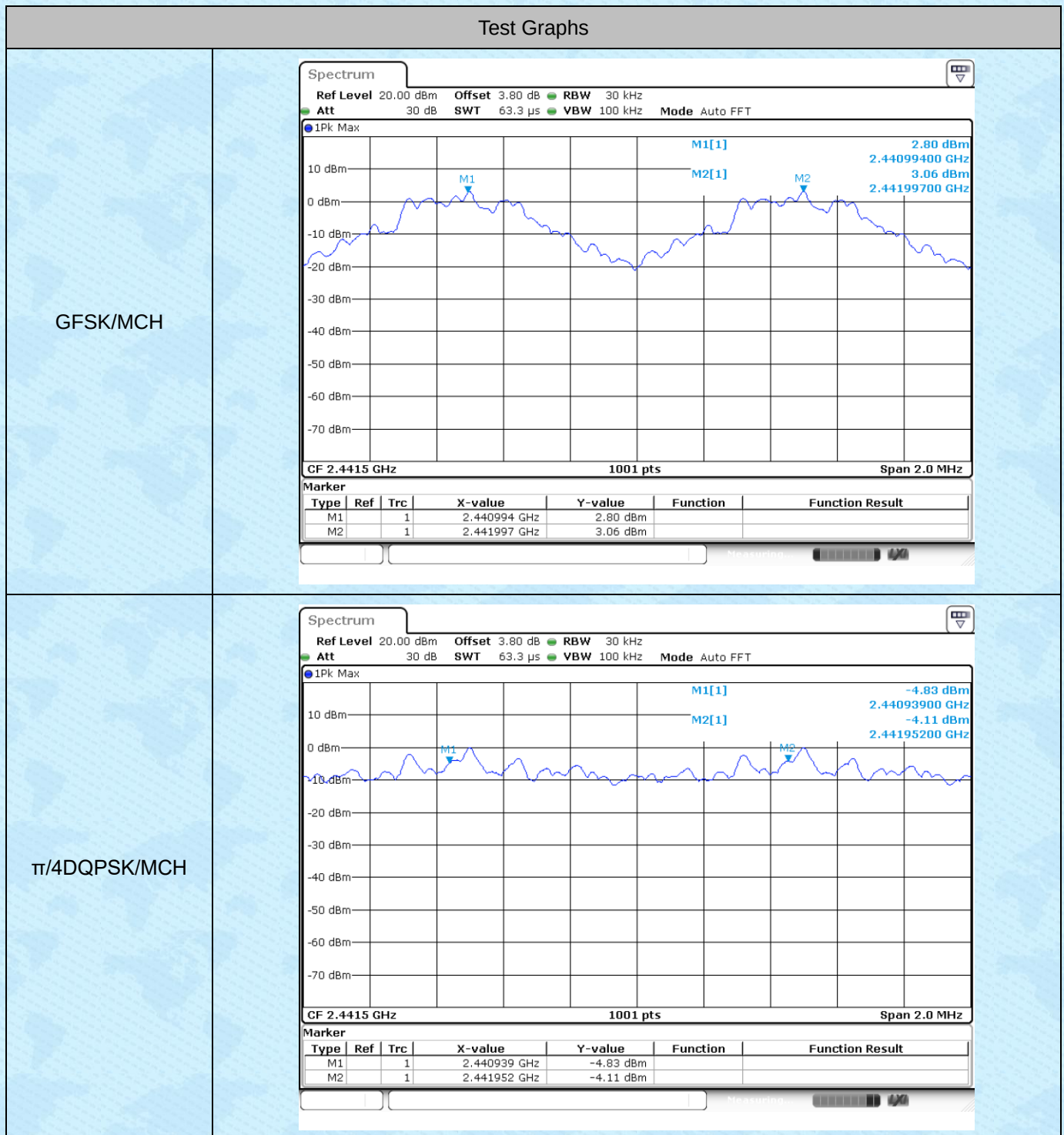


## 4 Carrier Frequency Separation

### 4.1 Test Result

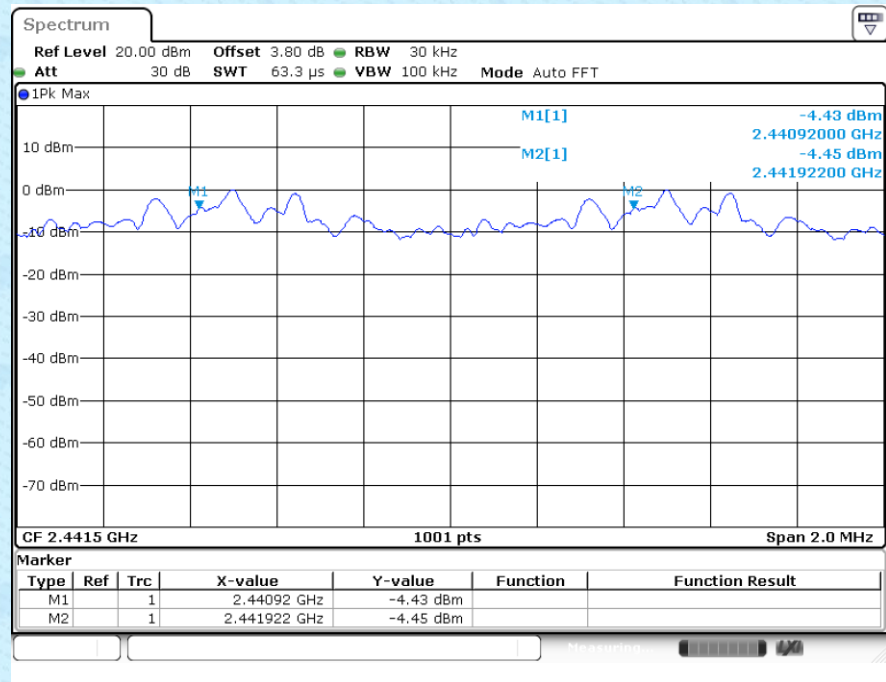
| Mode          | Channel. | Carrier Frequency Separation [MHz] | Limit [MHz] | Verdict |
|---------------|----------|------------------------------------|-------------|---------|
| GFSK          | MCH      | 1.003                              | 0.629       | Pass    |
| $\pi/4$ DQPSK | MCH      | 1.013                              | 0.933       | Pass    |
| 8DPSK         | MCH      | 1.002                              | 0.959       | Pass    |

## 4.2 Test Graphs





8DPSK/MCH

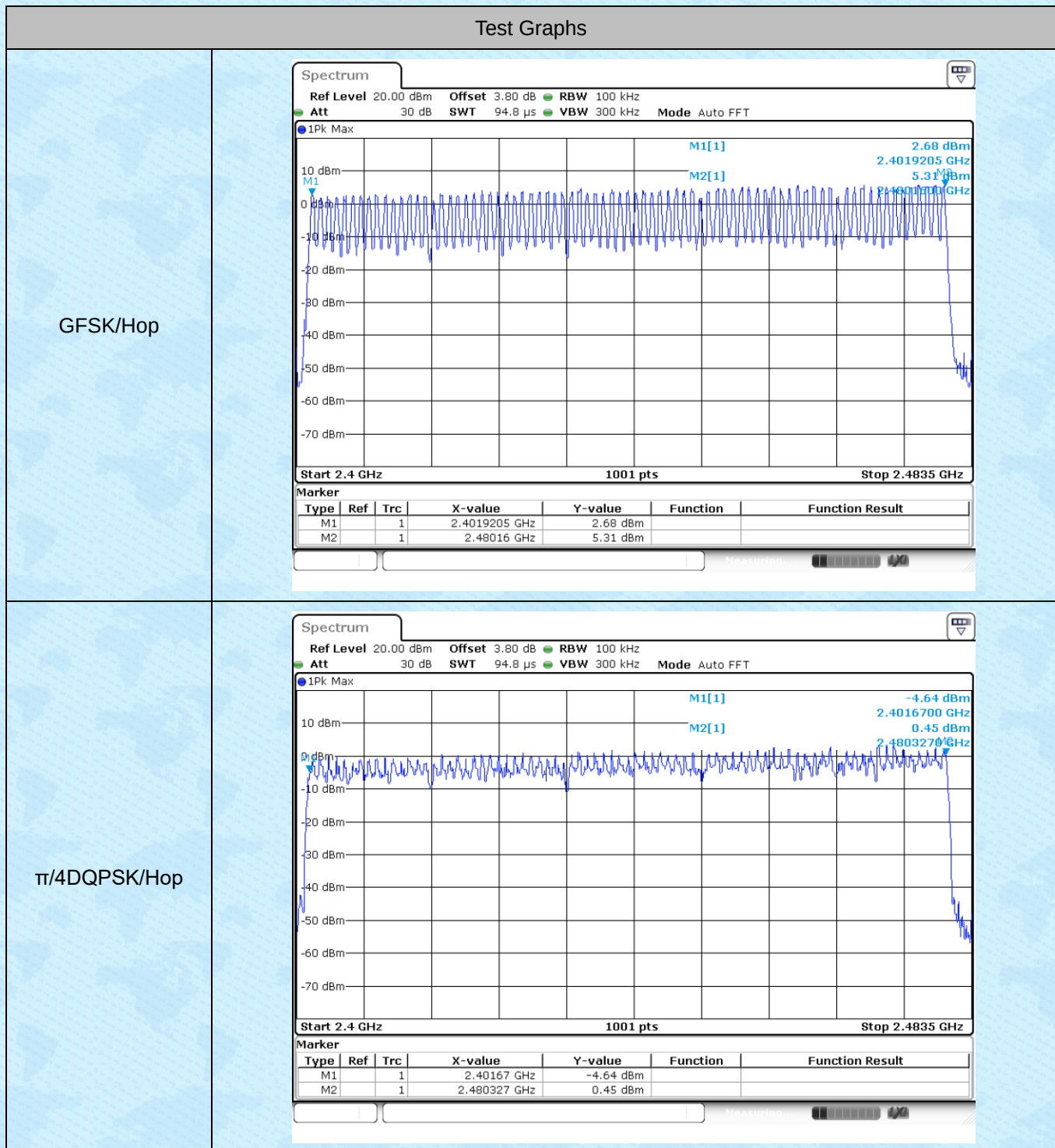


## 5 Hopping Channel Number

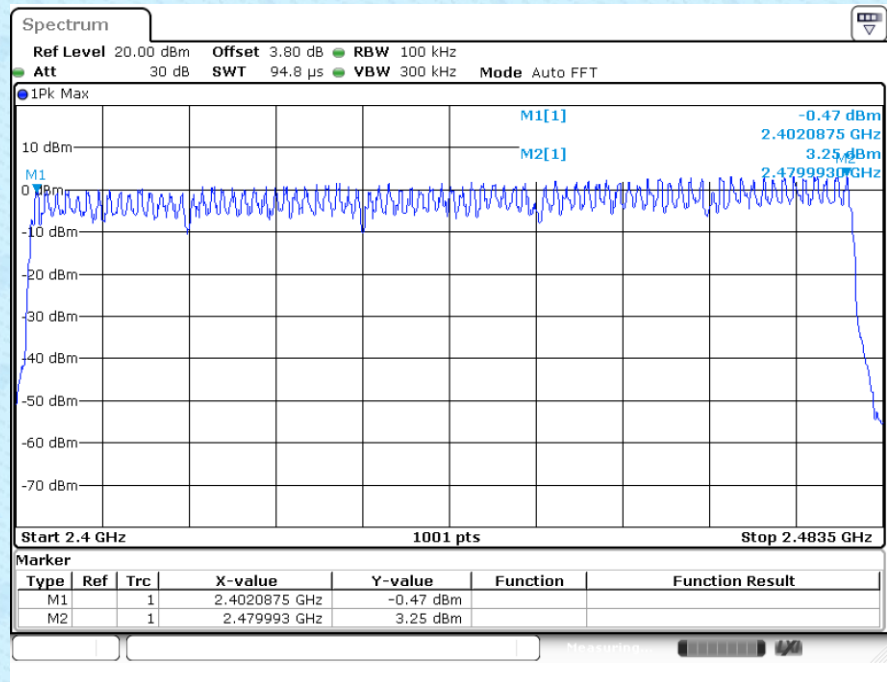
### 5.1 Test Result

| Mode          | Channel. | Number of Hopping Channel [N] | Limit [N] | Verdict |
|---------------|----------|-------------------------------|-----------|---------|
| GFSK          | Hop      | 79                            | $\geq 15$ | PASS    |
| $\pi/4$ DQPSK | Hop      | 79                            | $\geq 15$ | PASS    |
| 8DPSK         | Hop      | 79                            | $\geq 15$ | PASS    |

## 5.2 Test Graphs



8DPSK/Hop



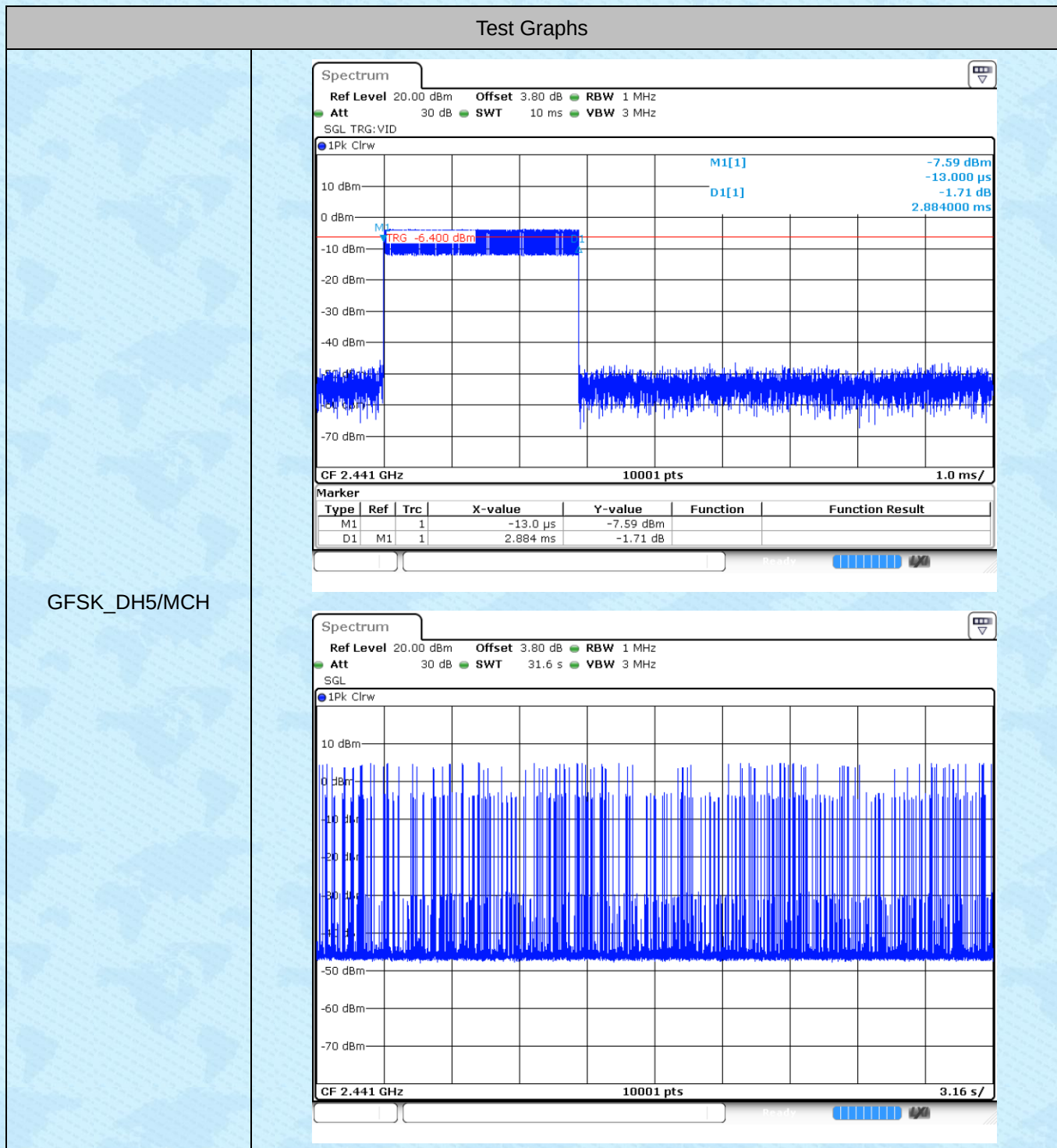


## 6 Dwell Time

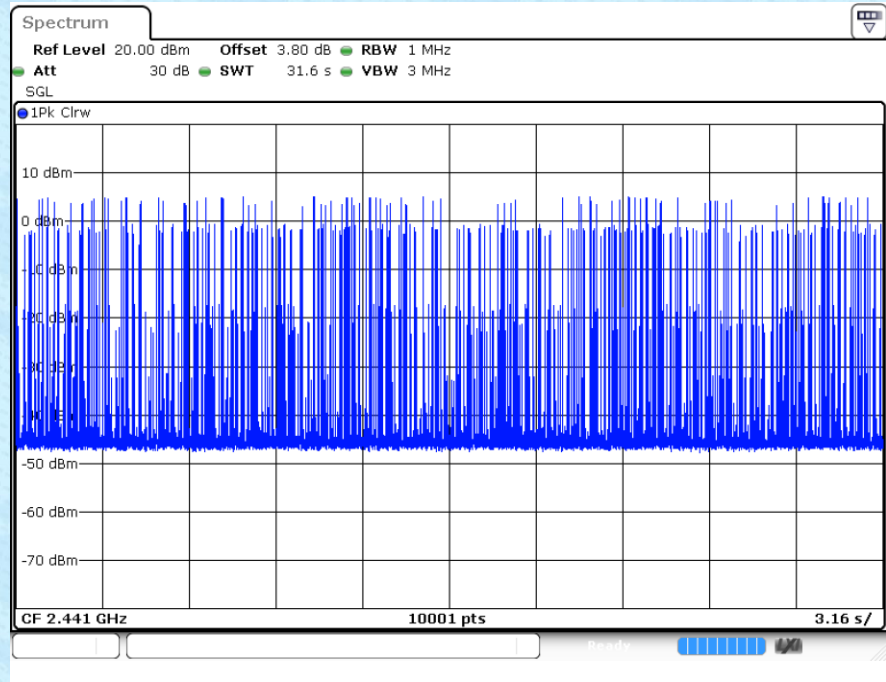
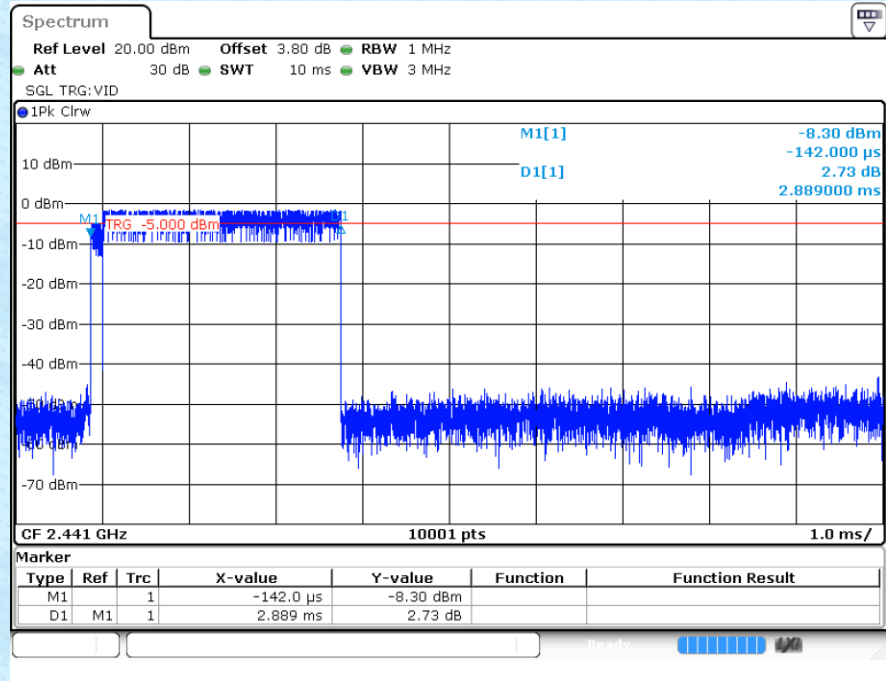
### 6.1 Test Result

| Mode          | Packet | Channel | Burst Width<br>[ms/hop/ch] | Total<br>Hops[hop*ch] | Dwell Time[ms] | Limit [s] | Verdict |
|---------------|--------|---------|----------------------------|-----------------------|----------------|-----------|---------|
| GFSK          | DH5    | MCH     | 2.884                      | 99                    | 285.516        | 0.4       | Pass    |
| $\pi/4$ DQPSK | 2DH5   | MCH     | 2.889                      | 96                    | 277.344        | 0.4       | Pass    |
| 8DPSK         | 3DH5   | MCH     | 2.891                      | 119                   | 344.029        | 0.4       | Pass    |

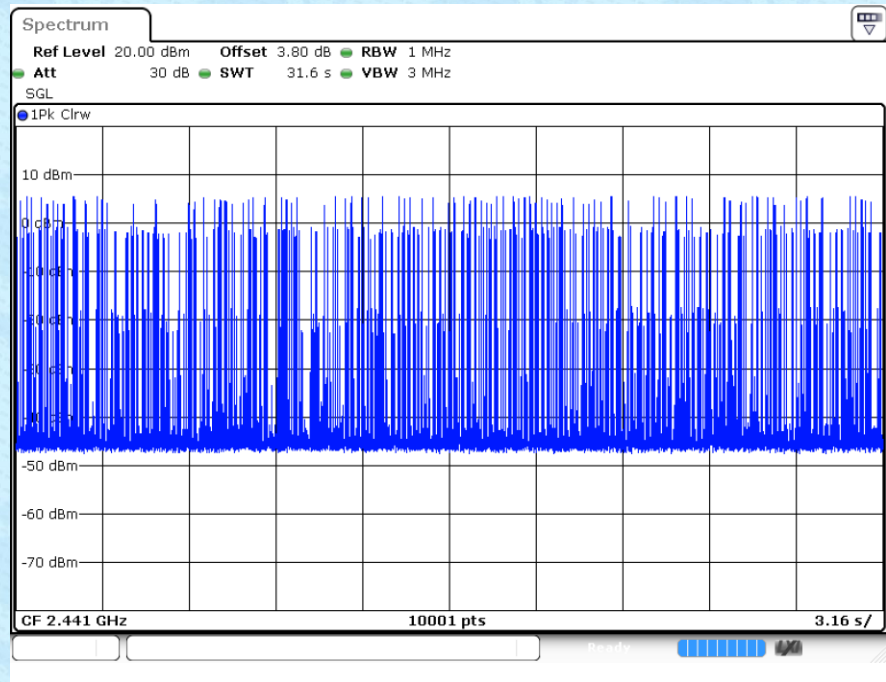
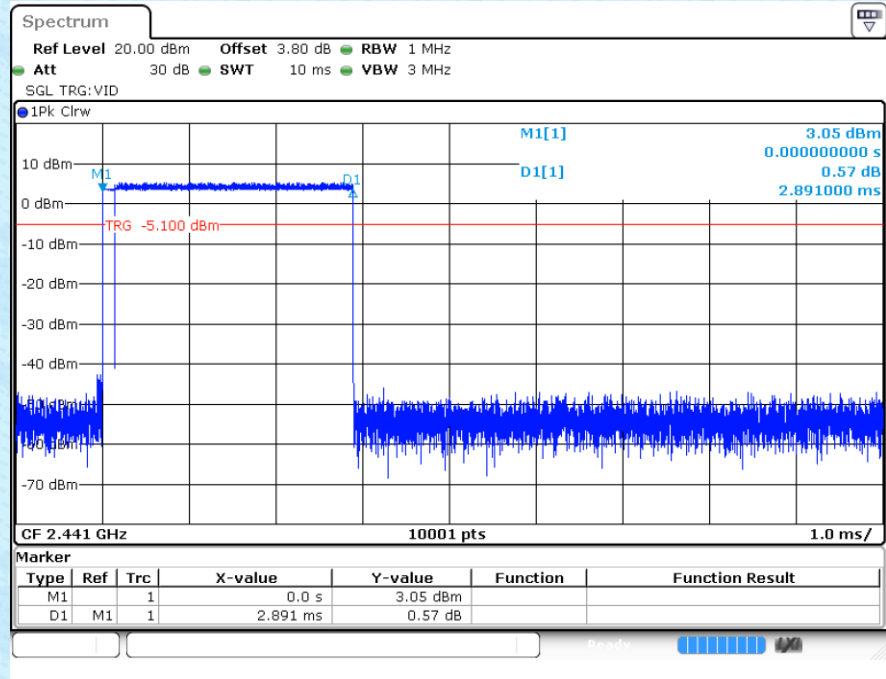
## 6.2 Test Graphs



$\pi/4$ DQPSK  
\_2DH5/MCH



8DPSK\_3DH5/MCH





## 7 RF Conducted Spurious Emissions

### 7.1 Test Result

| Mode          | Channel | Max. Level [dBc] | Limit [dBc] | Verdict |
|---------------|---------|------------------|-------------|---------|
| GFSK          | LCH     | -45.91           | -20         | Pass    |
|               | MCH     | -47.02           | -20         | Pass    |
|               | HCH     | -47.37           | -20         | Pass    |
| $\pi/4$ DQPSK | LCH     | -41.72           | -20         | Pass    |
|               | MCH     | -43.77           | -20         | Pass    |
|               | HCH     | -43.92           | -20         | Pass    |
| 8DPSK         | LCH     | -42.98           | -20         | Pass    |
|               | MCH     | -44.97           | -20         | Pass    |
|               | HCH     | -44.89           | -20         | Pass    |

## 7.2 Test Graphs

