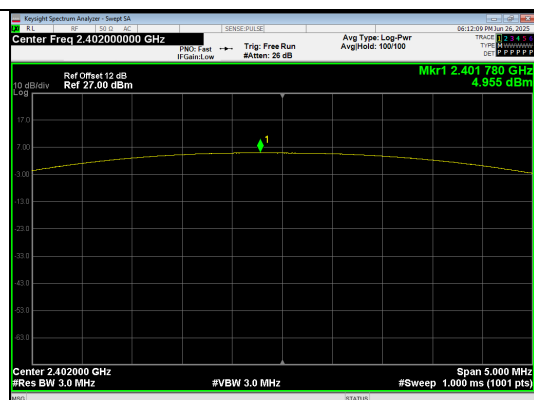


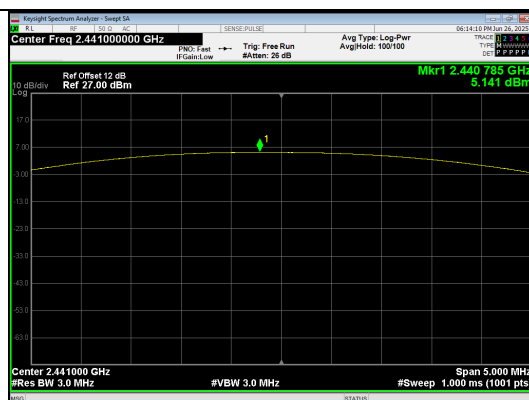
## Test Result

| Modulation    | Packet Type | Channel | Peak Output Power (dBm) | Limit (dBm) | Result |
|---------------|-------------|---------|-------------------------|-------------|--------|
| GFSK          | DH5         | 0       | 4.96                    | ≤30         | PASS   |
|               |             | 39      | 5.14                    |             | PASS   |
|               |             | 78      | 5.48                    |             | PASS   |
| $\pi/4$ DQPSK | 2-DH5       | 0       | 5.91                    | ≤20.97      | PASS   |
|               |             | 39      | 6.03                    |             | PASS   |
|               |             | 78      | 6.43                    |             | PASS   |
| 8DPSK         | 3-DH5       | 0       | 6.36                    |             | PASS   |
|               |             | 39      | 6.52                    |             | PASS   |
|               |             | 78      | 6.90                    |             | PASS   |

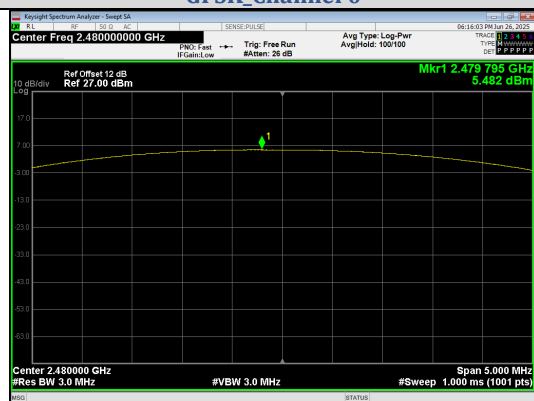
## Test Graphs



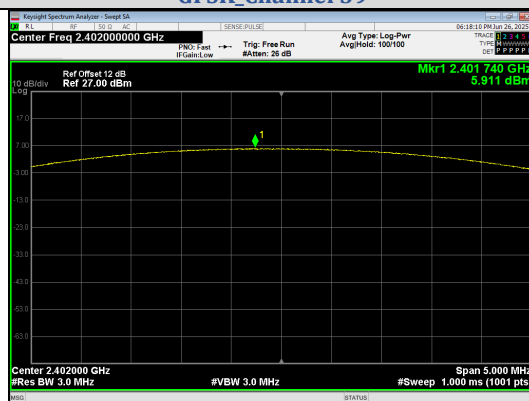
### Peak Output Power GFSK\_Channel 0



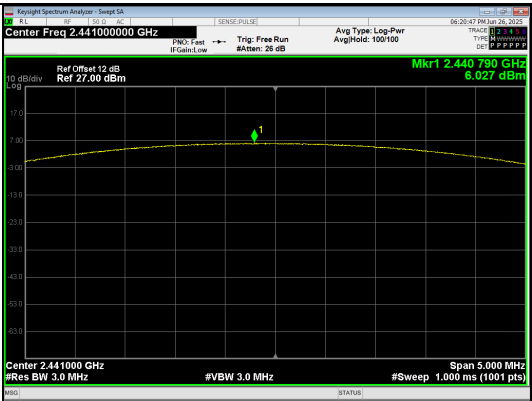
### Peak Output Power GFSK\_Channel 39



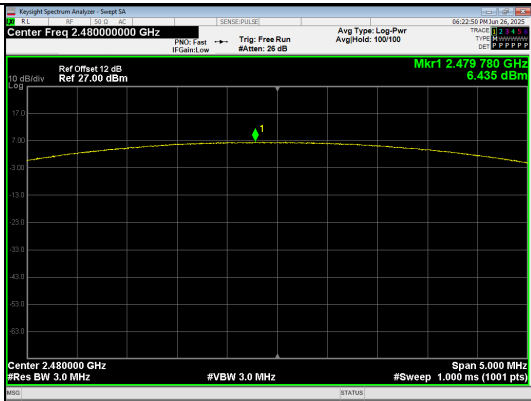
### Peak Output Power GFSK\_Channel 78



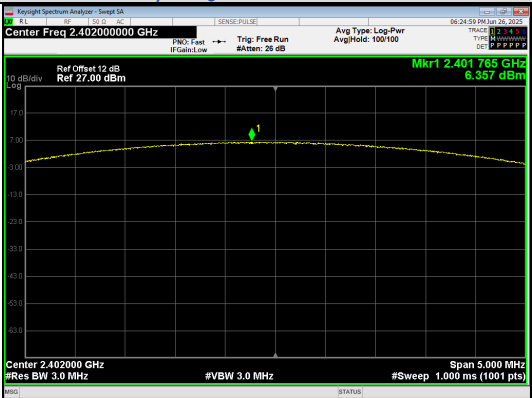
### Peak Output Power $\pi/4$ DQPSK Channel 0



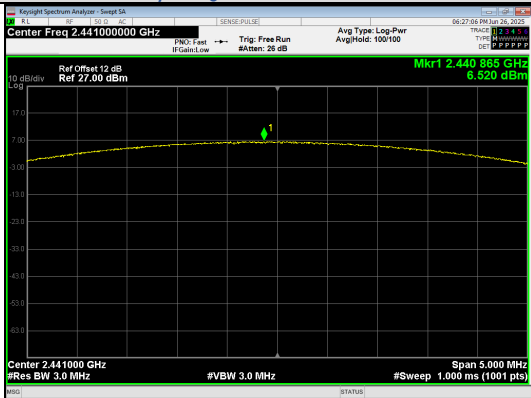
Peak Output Power  
 $\pi/4$ DQPSK\_Channel 39



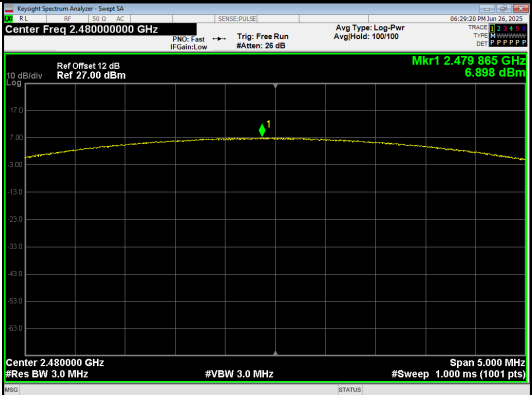
Peak Output Power  
 $\pi/4$ DQPSK\_Channel 78



Peak Output Power  
8DPSK\_Channel 0



Peak Output Power  
8DPSK\_Channel 39



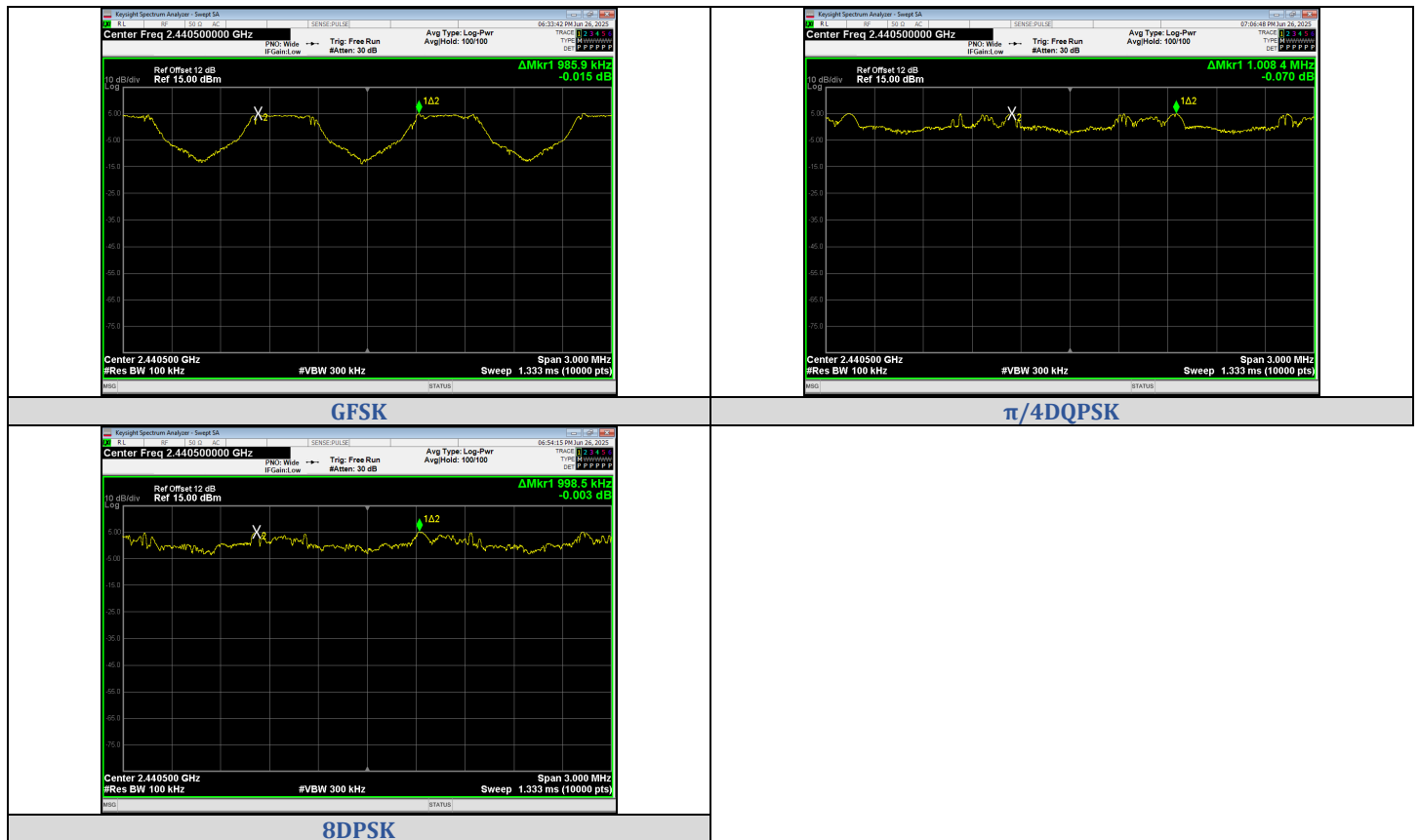
Peak Output Power  
8DPSK\_Channel 78

## Carrier Frequencies Separation

### Test Result

| Modulation    | Packet | Left Center frequency (MHz) | Right Center frequency (MHz) | Hopping Frequency Separation (MHz) | Limit (MHz) | Result |
|---------------|--------|-----------------------------|------------------------------|------------------------------------|-------------|--------|
| GFSK          | DH5    | 2439.8305                   | 2440.8164                    | 0.9859                             | 0.637       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2440.1437                   | 2441.1521                    | 1.0084                             | 0.872       | PASS   |
| 8DPSK         | 3-DH5  | 2439.8215                   | 2440.82                      | 0.9985                             | 0.867       | PASS   |

### Test Graphs



## Conducted Out Of Band Emission

### Test Result

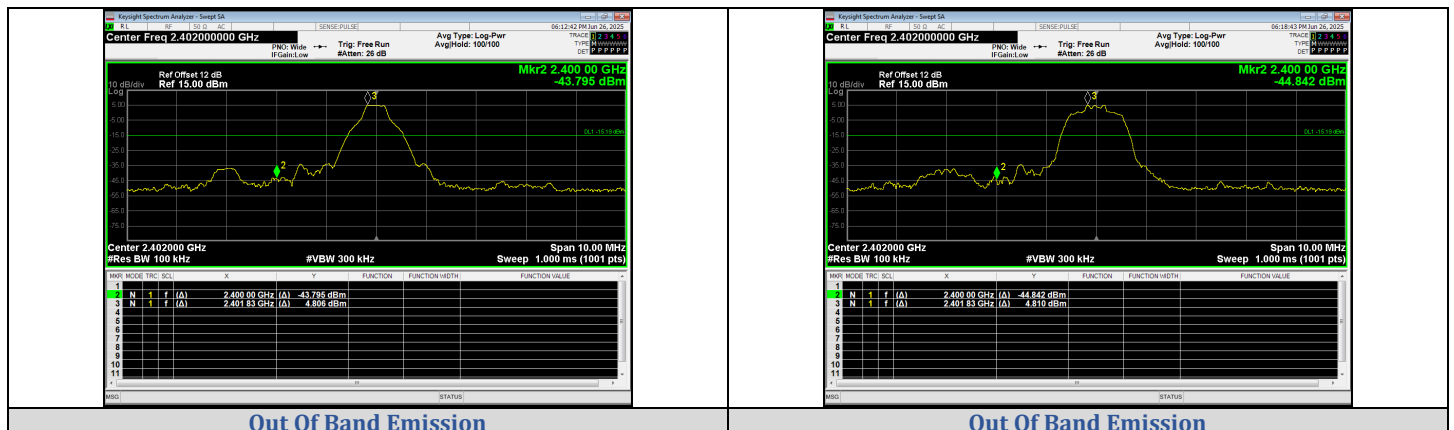
#### Non-Hopping

| Modulation    | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK          | DH5    | 0       | 2399.00                      | -37.313                  | -15.19      | -22.123         | PASS   |
|               |        |         | 2400.00                      | -43.795                  | -15.19      | -28.605         | PASS   |
|               |        |         | 9601.60                      | -39.896                  | -15.19      | -24.706         | PASS   |
|               |        | 39      | 2626.94                      | -39.320                  | -15.04      | -24.280         | PASS   |
|               |        | 78      | 2483.50                      | -44.795                  | -14.65      | -30.145         | PASS   |
|               |        |         | 2575.76                      | -42.685                  | -14.65      | -28.035         | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 0       | 2399.00                      | -37.412                  | -15.19      | -22.222         | PASS   |
|               |        |         | 2400.00                      | -44.842                  | -15.19      | -29.652         | PASS   |
|               |        |         | 9601.90                      | -39.547                  | -15.19      | -24.357         | PASS   |
|               |        | 39      | 2625.70                      | -40.507                  | -15.01      | -25.497         | PASS   |
|               |        | 78      | 2483.50                      | -45.977                  | -14.64      | -31.337         | PASS   |
|               |        |         | 9914.00                      | -44.139                  | -14.64      | -29.499         | PASS   |
| 8DPSK         | 3-DH5  | 0       | 2398.97                      | -37.633                  | -15.13      | -22.503         | PASS   |
|               |        |         | 2400.00                      | -44.451                  | -15.13      | -29.321         | PASS   |
|               |        |         | 5810.10                      | -33.281                  | -15.13      | -18.151         | PASS   |
|               |        | 39      | 9757.93                      | -41.700                  | -15.0       | -26.700         | PASS   |
|               |        | 78      | 2483.50                      | -45.596                  | -14.63      | -30.966         | PASS   |
|               |        |         | 9914.00                      | -43.955                  | -14.63      | -29.325         | PASS   |

#### Hopping

| Modulation | Packet | Channel | OOB<br>Emission<br>Frequency<br>(MHz) | OOB<br>Emission<br>Level<br>(dBm) | Limit<br>(dBm) | Over Limit<br>(dB) | Result |
|------------|--------|---------|---------------------------------------|-----------------------------------|----------------|--------------------|--------|
| GFSK       | DH5    | Hopping | 2400.00                               | -36.923                           | -15.13         | -21.793            | PASS   |
| π/4DQPSK   | 2-DH5  |         | 2483.50                               | -46.178                           | -14.64         | -31.538            | PASS   |
|            |        |         | 2398.98                               | -36.845                           | -15.1          | -21.745            | PASS   |
|            |        |         | 2400.00                               | -37.030                           | -15.1          | -21.930            | PASS   |
|            |        |         | 2483.50                               | -47.257                           | -14.97         | -32.287            | PASS   |
| 8DPSK      | 3-DH5  |         | 2400.00                               | -38.533                           | -15.28         | -23.253            | PASS   |
|            |        | 2483.50 | -46.929                               | -14.62                            | -32.309        | PASS               |        |

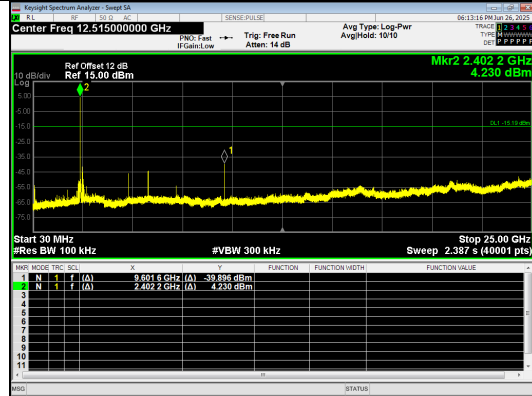
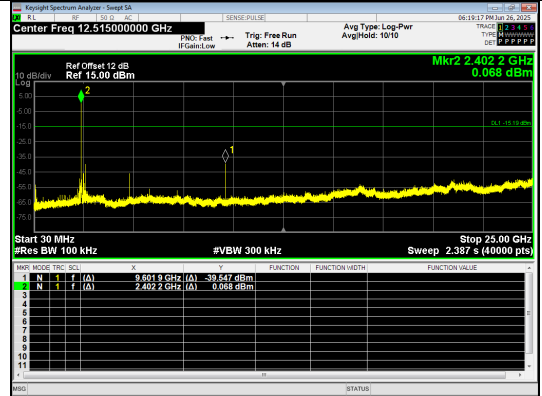
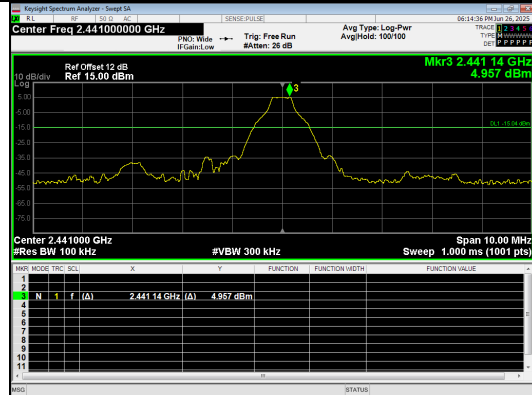
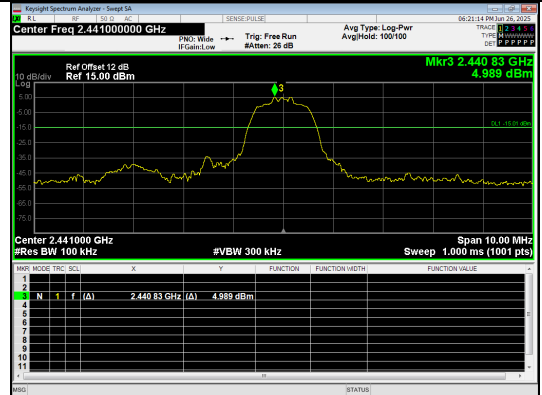
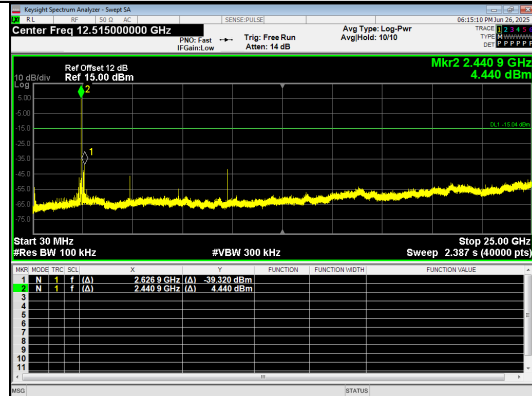
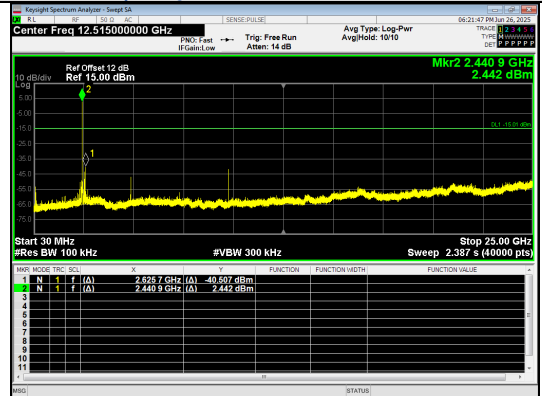
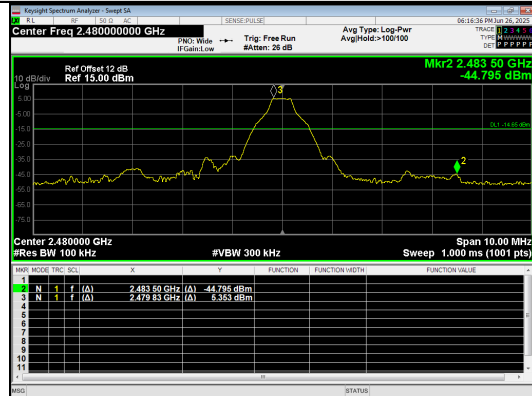
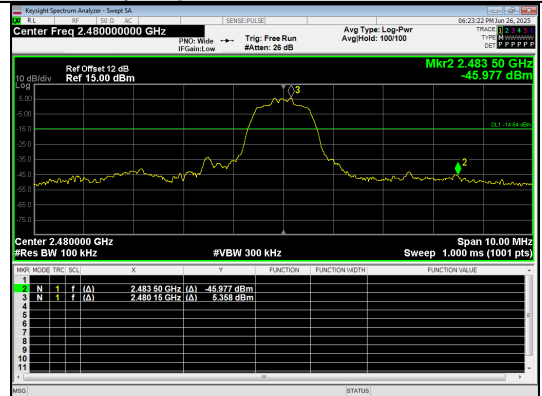
### Test Graphs



Out Of Band Emission

Out Of Band Emission

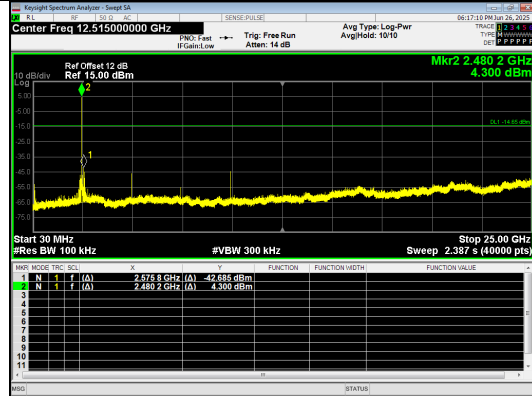
## GFSK\_DH5\_Channel 0

 $\pi/4$ DQPSK\_2-DH5\_Channel 030.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 030.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 0Out Of Band Emission  
GFSK\_DH5\_Channel 39Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 3930.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 3930.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 39

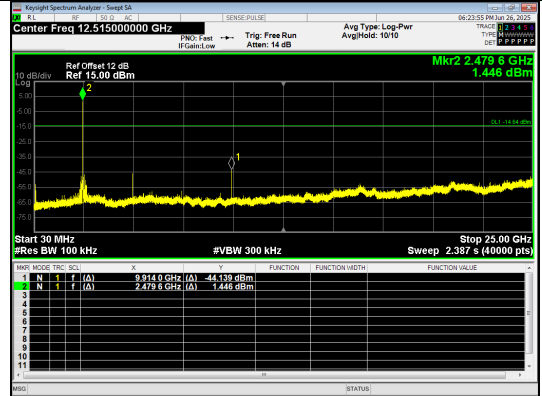
## Out Of Band Emission

## Out Of Band Emission

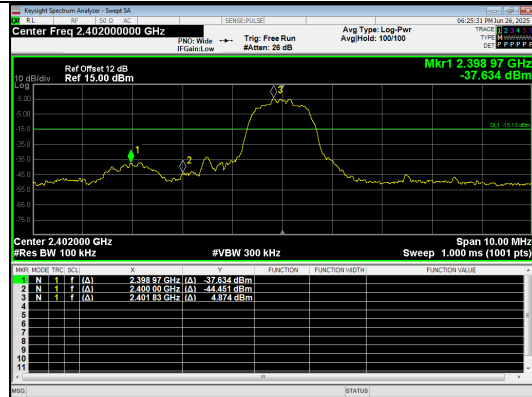
## GFSK\_DH5\_Channel 78



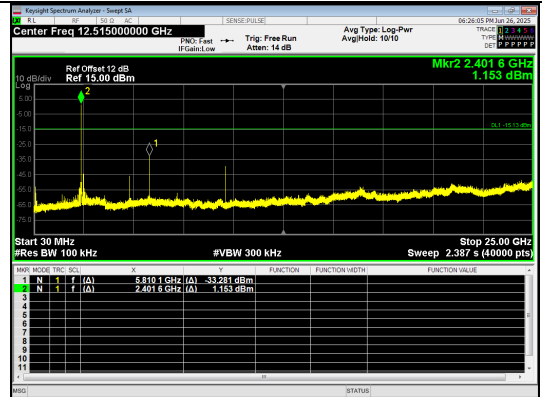
30.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 78

 $\pi/4$ DQPSK\_2-DH5\_Channel 78

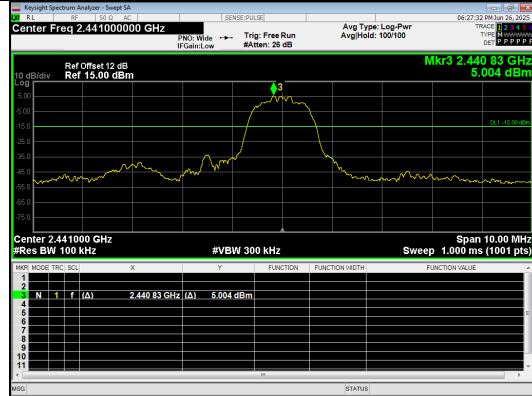
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 78



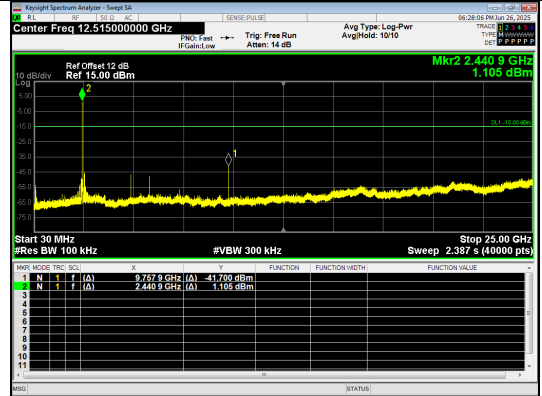
Out Of Band Emission  
8DPSK\_3-DH5\_Channel 0



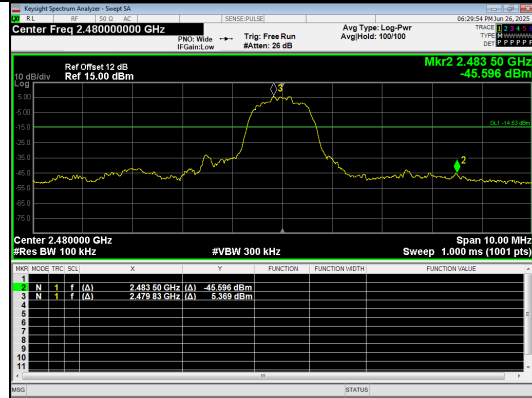
30.0 MHz - 25000.0 MHz  
8DPSK\_3-DH5\_Channel 0



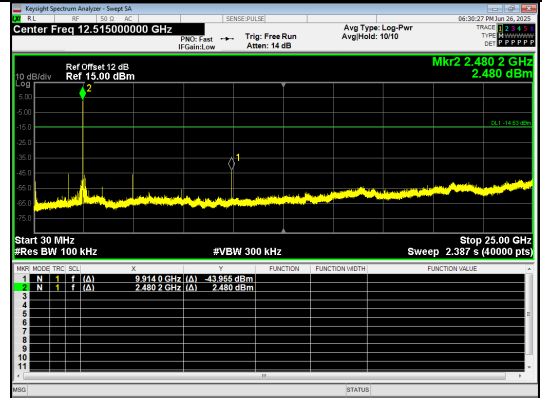
Out Of Band Emission  
8DPSK\_3-DH5\_Channel 39



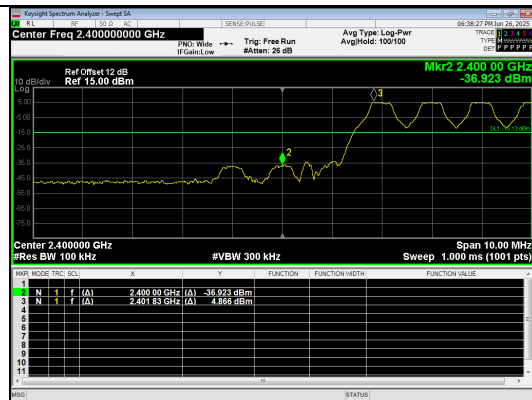
30.0 MHz - 25000.0 MHz  
8DPSK\_3-DH5\_Channel 39



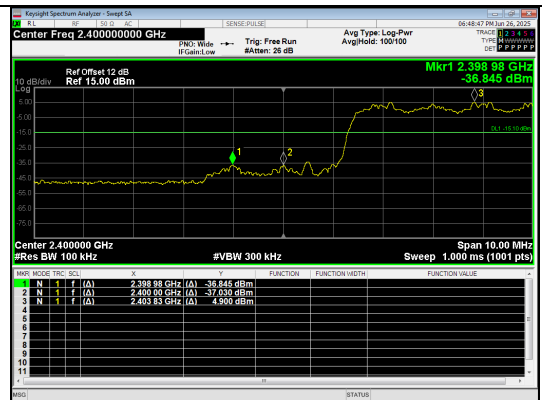
**Out Of Band Emission**  
**8DPSK\_3-DH5\_Channel 78**



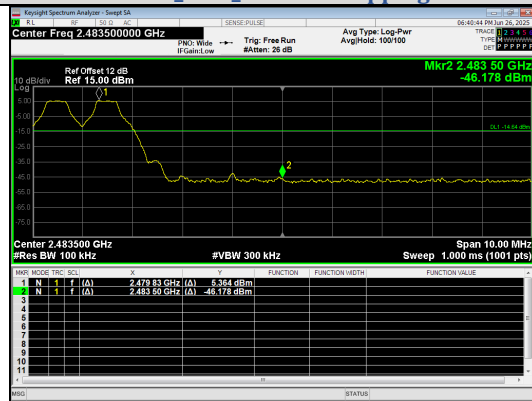
**30.0 MHz - 25000.0 MHz**  
**8DPSK\_3-DH5\_Channel 78**



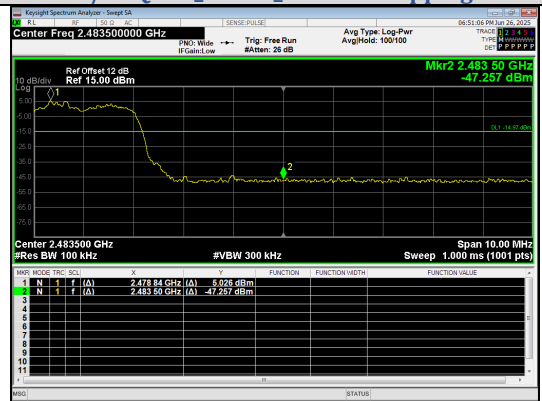
**Out Of Band Emission(Left)**  
**GFSK\_DH5\_Channel Hopping**



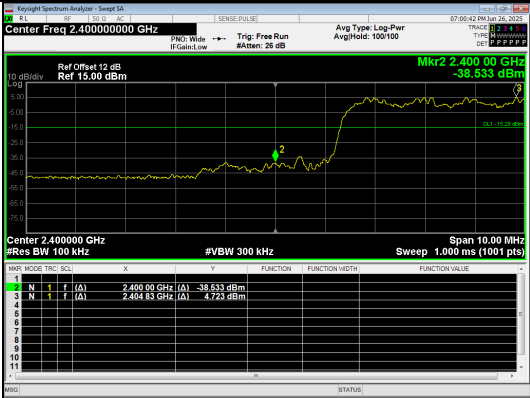
**Out Of Band Emission(Left)**  
 **$\pi/4$ DQPSK 2-DH5\_Channel Hopping**



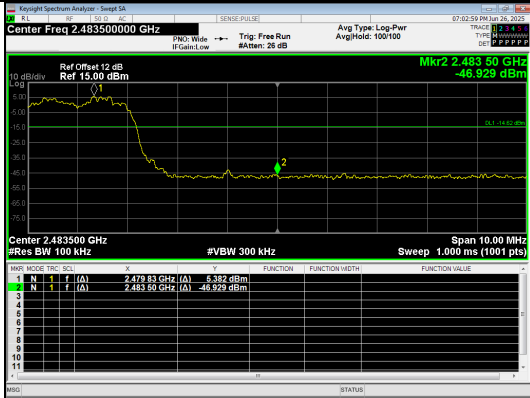
**Out Of Band Emission(Right)**  
**GFSK\_DH5\_Channel Hopping**



**Out Of Band Emission(Right)**  
 **$\pi/4$ DQPSK 2-DH5\_Channel Hopping**



Out Of Band Emission(Left)  
8DPSK\_3-DH5\_Channel Hopping



Out Of Band Emission(Right)  
8DPSK\_3-DH5\_Channel Hopping

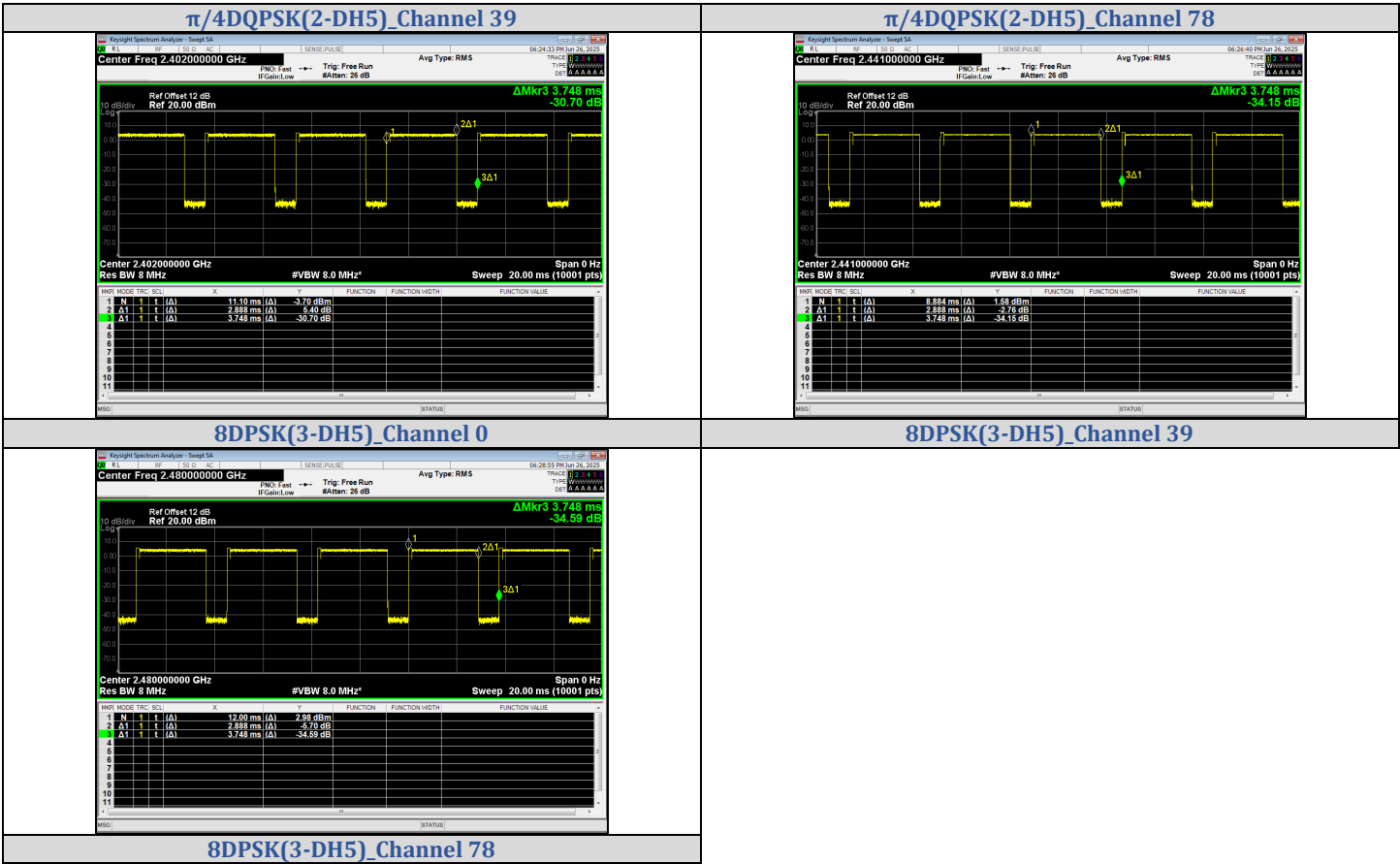
## Duty Cycle

## Test Result

| Modulation    | Packets | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T    |
|---------------|---------|---------|--------------|-------------|----------------|---------------------|------------------------|--------|
| GFSK          | DH5     | 0       | 2.880        | 3.748       | 76.84          | 0.7684              | 1.1441                 | 0.3472 |
|               |         | 39      | 2.880        | 3.748       | 76.84          | 0.7684              | 1.1441                 | 0.3472 |
|               |         | 78      | 2.880        | 3.748       | 76.84          | 0.7684              | 1.1441                 | 0.3472 |
| $\pi/4$ DQPSK | 2-DH5   | 0       | 2.886        | 3.748       | 77.00          | 0.7700              | 1.1351                 | 0.3465 |
|               |         | 39      | 2.886        | 3.748       | 77.00          | 0.7700              | 1.1351                 | 0.3465 |
|               |         | 78      | 2.884        | 3.748       | 76.95          | 0.7695              | 1.1379                 | 0.3467 |
| 8DPSK         | 3-DH5   | 0       | 2.888        | 3.748       | 77.05          | 0.7705              | 1.1323                 | 0.3463 |
|               |         | 39      | 2.888        | 3.748       | 77.05          | 0.7705              | 1.1323                 | 0.3463 |
|               |         | 78      | 2.888        | 3.748       | 77.05          | 0.7705              | 1.1323                 | 0.3463 |

## Test Graphs



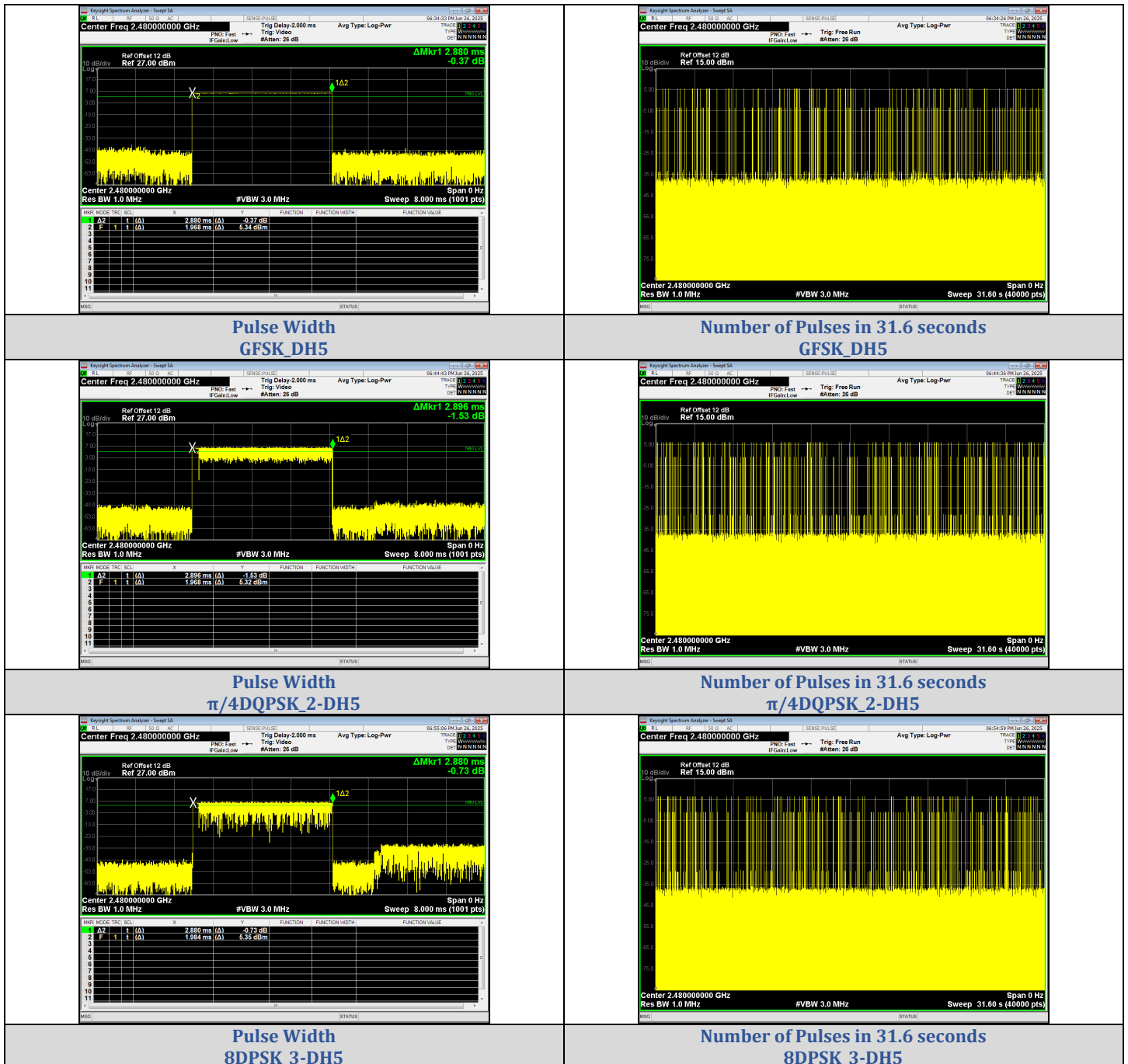


## Dwell Time

## Test Result

| Modulation    | Packet | Channel           | Pulse Width (ms) | Number of Pulses in 31.6 seconds | Dwell Time (ms) | Limit (ms) | Result |
|---------------|--------|-------------------|------------------|----------------------------------|-----------------|------------|--------|
| GFSK          | DH5    | CH78<br>(2480MHz) | 2.880            | 98                               | 282.24          | < 400      | PASS   |
| $\pi/4$ DQPSK | 2-DH5  |                   | 2.896            | 114                              | 330.14          |            | PASS   |
| 8DPSK         | 3-DH5  |                   | 2.880            | 103                              | 296.64          |            | PASS   |

## Test Graphs





## Number Of Hopping Channel

### Test Result

| Modulation    | Packet | Number of Hopping Channel | Limit | Result |
|---------------|--------|---------------------------|-------|--------|
| GFSK          | DH5    | 79                        | 15    | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 79                        | 15    | PASS   |
| 8DPSK         | 3-DH5  | 79                        | 15    | PASS   |

### Test Graphs

