

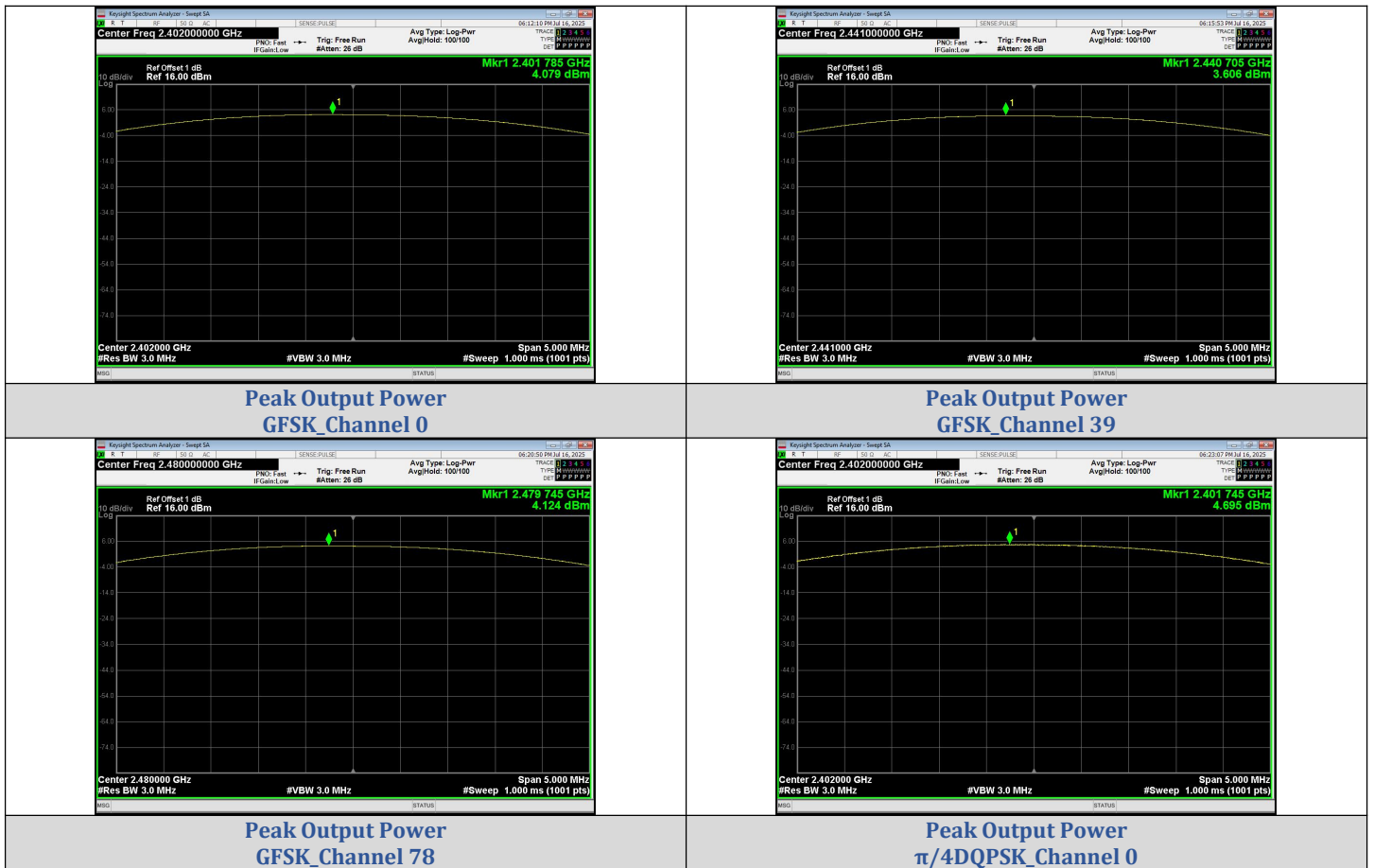


## Conducted Output Power

### Test Result

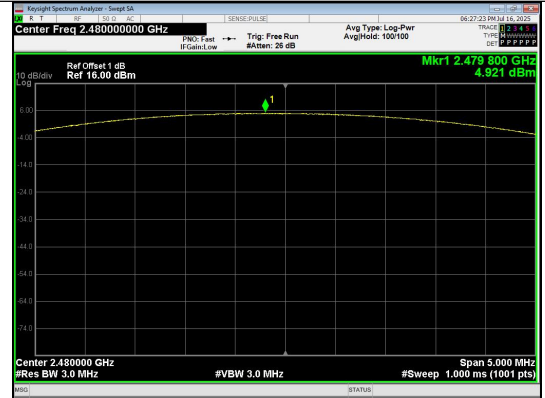
| Modulation    | Packet Type | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Max. Avg. Power (dBm) | Limit (dBm) | Result |
|---------------|-------------|---------|-------------------------|------------------------|-----------------------|-------------|--------|
| GFSK          | DH5         | 0       | 4.08                    | 2.56                   | 3.87                  | ≤30         | PASS   |
|               |             | 39      | 3.61                    | 2.30                   | 3.47                  |             | PASS   |
|               |             | 78      | 4.12                    | 2.58                   | 3.91                  |             | PASS   |
| $\pi/4$ DQPSK | 2-DH5       | 0       | 4.70                    | 2.95                   | 2.31                  | ≤20.97      | PASS   |
|               |             | 39      | 4.65                    | 2.92                   | 2.13                  |             | PASS   |
|               |             | 78      | 4.92                    | 3.10                   | 2.32                  |             | PASS   |
| 8DPSK         | 3-DH5       | 0       | 5.05                    | 3.20                   | 2.38                  |             | PASS   |
|               |             | 39      | 4.99                    | 3.16                   | 2.09                  |             | PASS   |
|               |             | 78      | 5.29                    | 3.38                   | 2.33                  |             | PASS   |

### Test Graphs

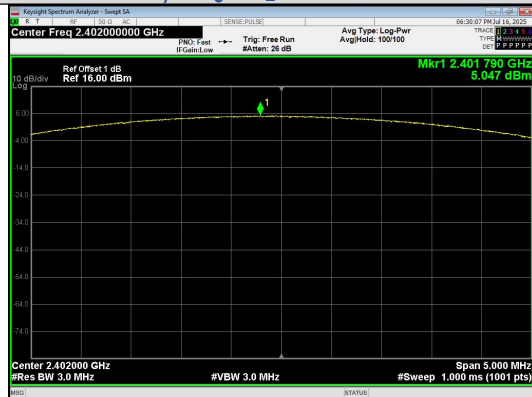




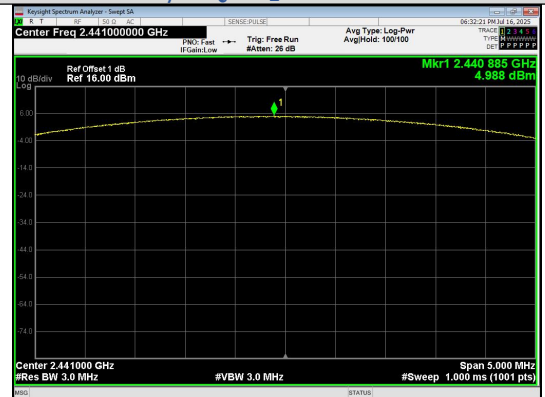
Peak Output Power  
 $\pi/4$ DQPSK\_Channel 39



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



Peak Output Power  
8DPSK\_Channel 0



Peak Output Power  
8DPSK\_Channel 39



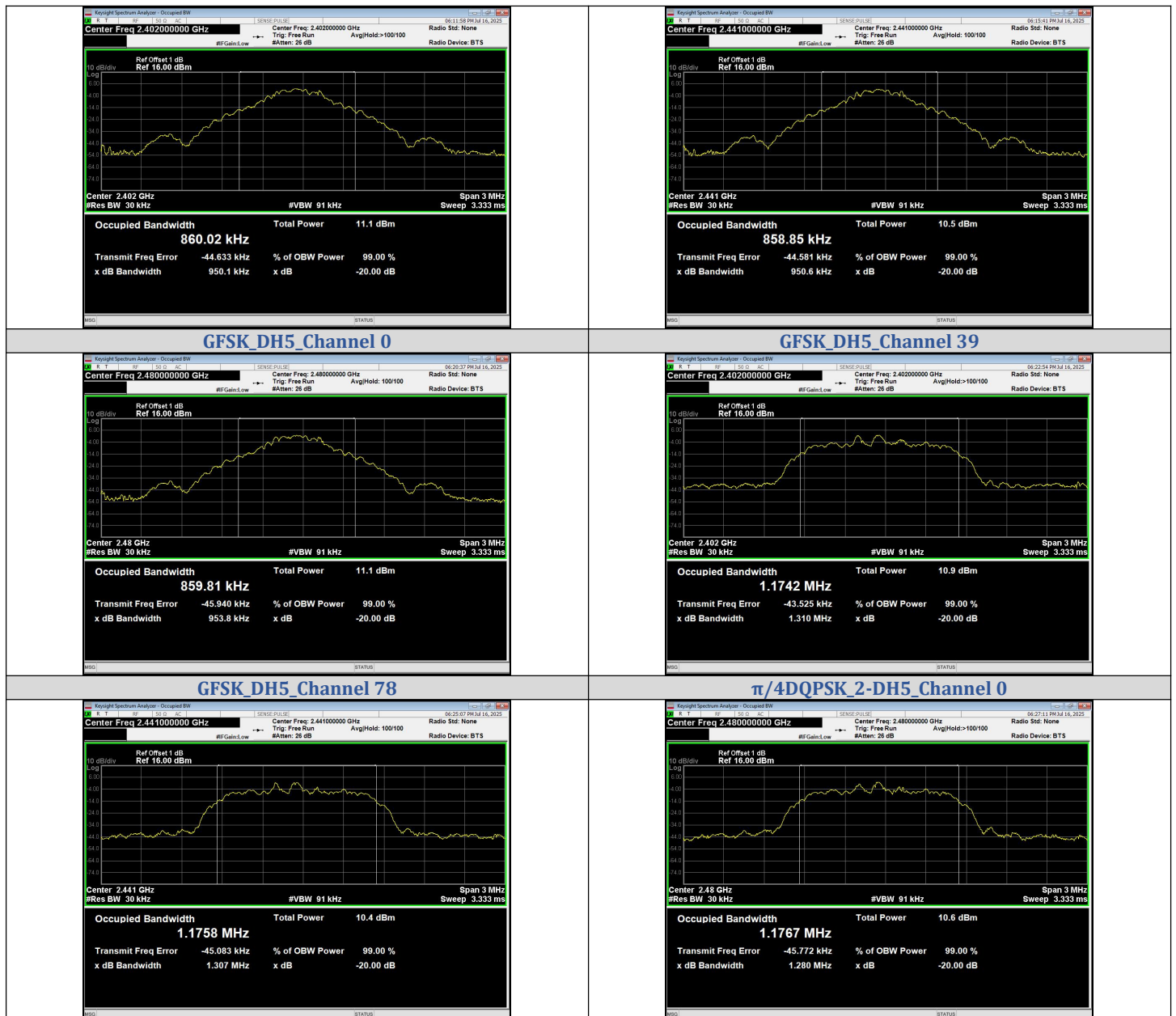
Peak Output Power  
8DPSK\_Channel 78



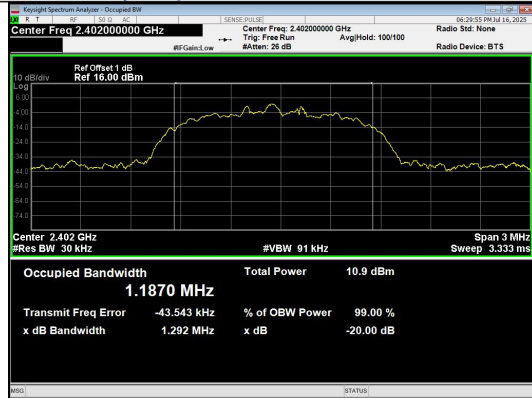
## 20dB Bandwidth Test Result

| Modulation    | Channel | Center Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------------|---------|------------------------|-----------------------|
| GFSK          | 0       | 2402 MHz               | 0.9500                |
|               | 39      | 2441 MHz               | 0.9500                |
|               | 78      | 2480 MHz               | 0.9500                |
| $\pi/4$ DQPSK | 0       | 2402 MHz               | 1.310                 |
|               | 39      | 2441 MHz               | 1.310                 |
|               | 78      | 2480 MHz               | 1.280                 |
| 8DPSK         | 0       | 2402 MHz               | 1.290                 |
|               | 39      | 2441 MHz               | 1.300                 |
|               | 78      | 2480 MHz               | 1.290                 |

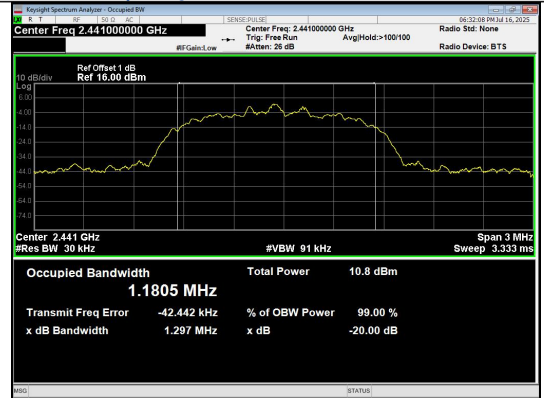
## Test Graphs



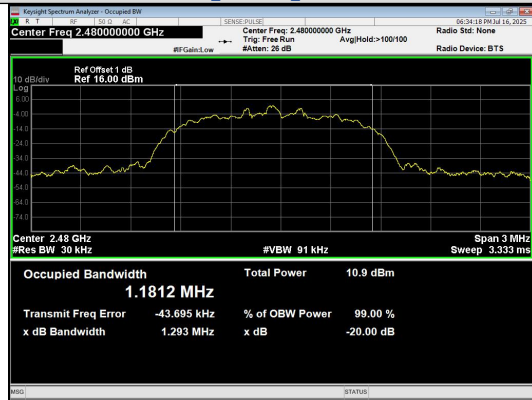
### $\pi/4$ DQPSK 2-DH5\_Channel 39



### $\pi/4$ DQPSK 2-DH5\_Channel 78



### 8DPSK 3-DH5\_Channel 0



### 8DPSK 3-DH5\_Channel 39

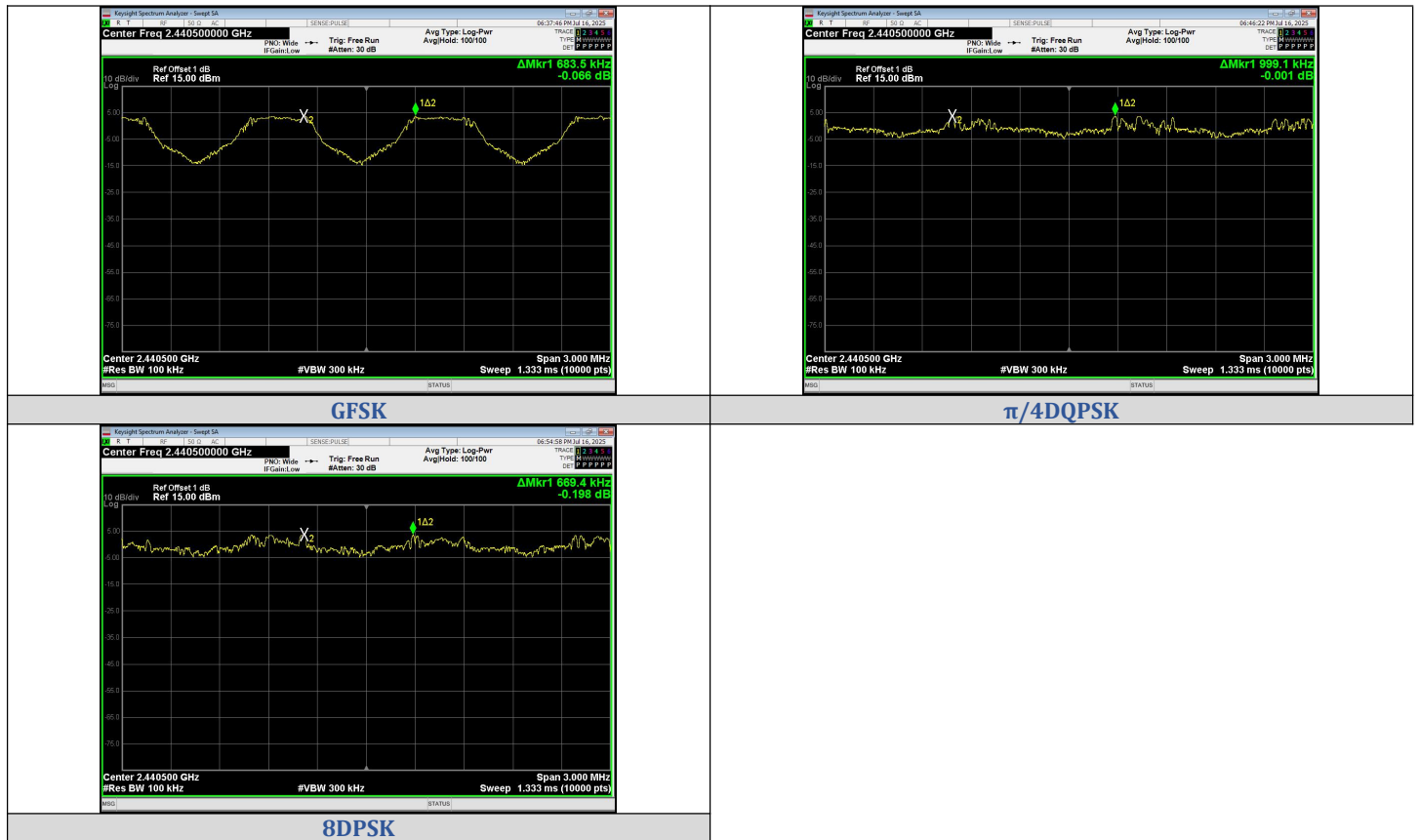
### 8DPSK 3-DH5\_Channel 78

## Carrier Frequencies Separation

### Test Result

| Modulation    | Packet | Left Center frequency (MHz) | Right Center frequency (MHz) | Hopping Frequency Separation (MHz) | Limit (MHz) | Result |
|---------------|--------|-----------------------------|------------------------------|------------------------------------|-------------|--------|
| GFSK          | DH5    | 2440.1167                   | 2440.8002                    | 0.6835                             | 0.99        | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2439.7843                   | 2440.7834                    | 0.9991                             | 0.99        | PASS   |
| 8DPSK         | 3-DH5  | 2440.1176                   | 2440.787                     | 0.6694                             | 0.99        | PASS   |

### Test Graphs



## Conducted Out Of Band Emission

### Test Result

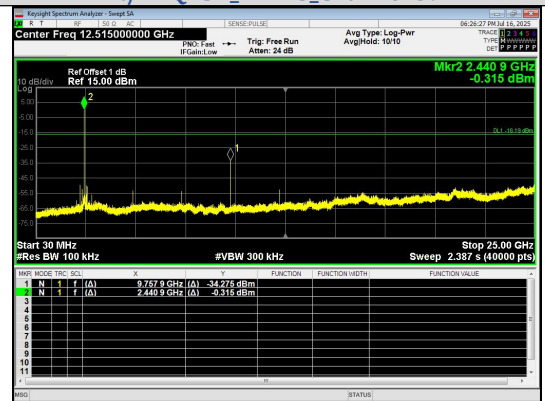
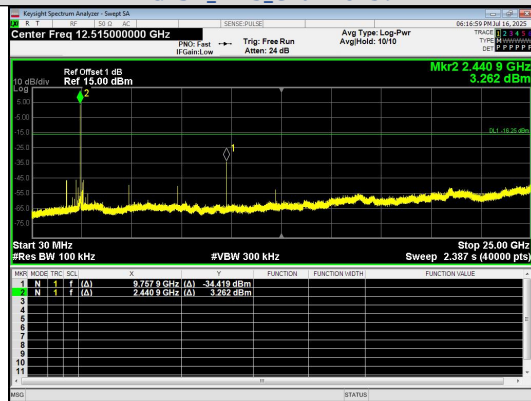
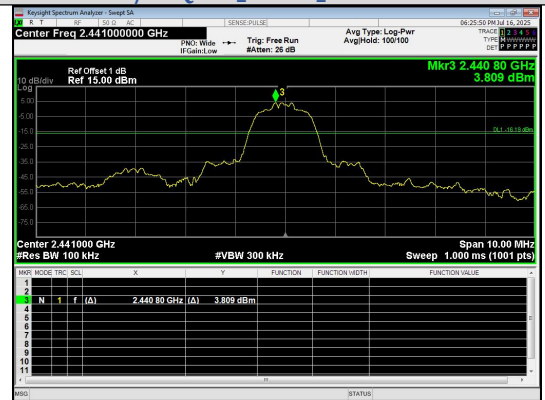
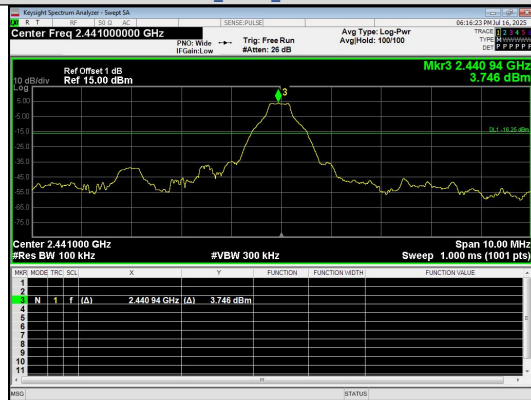
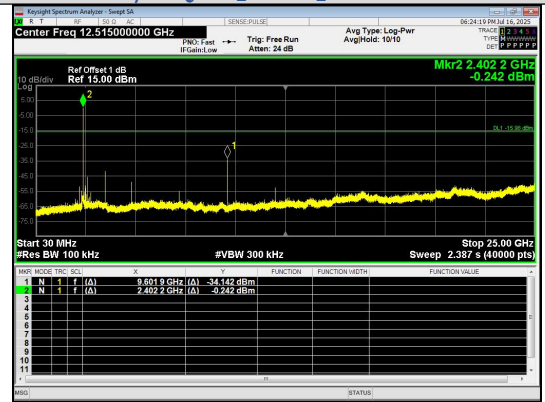
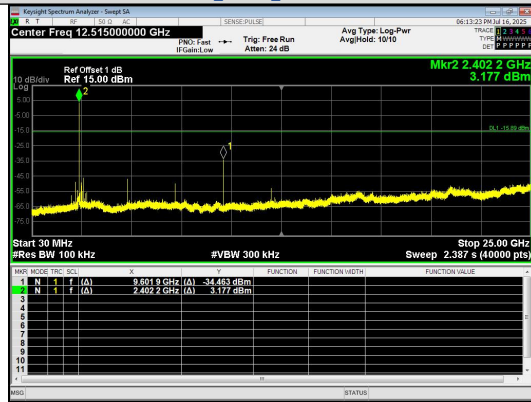
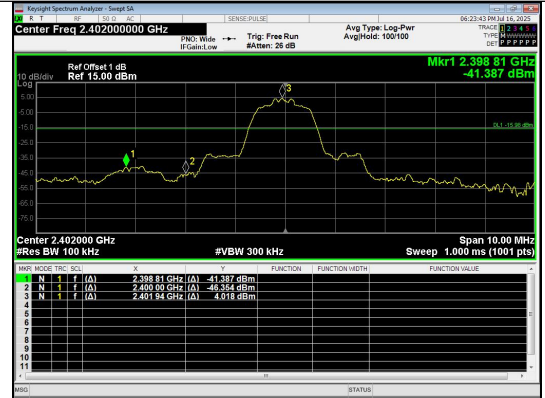
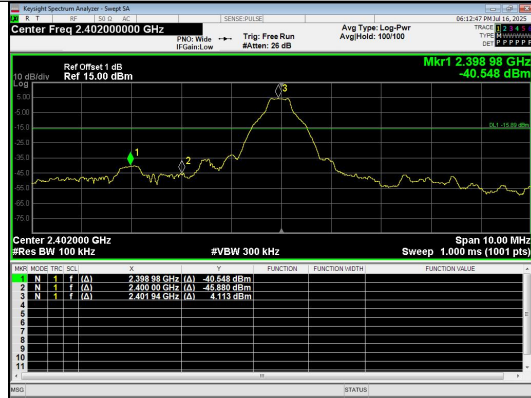
#### Non-Hopping

| Modulation    | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK          | DH5    | 0       | 2398.98                      | -40.548                  | -15.89      | -24.658         | PASS   |
|               |        |         | 2400.00                      | -45.880                  | -15.89      | -29.990         | PASS   |
|               |        |         | 9601.90                      | -34.463                  | -15.89      | -18.573         | PASS   |
|               |        | 39      | 9757.93                      | -34.419                  | -16.25      | -18.169         | PASS   |
|               |        | 78      | 2483.50                      | -50.170                  | -15.86      | -34.310         | PASS   |
|               |        |         | 9914.00                      | -35.933                  | -15.86      | -20.073         | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 0       | 2398.81                      | -41.387                  | -15.98      | -25.407         | PASS   |
|               |        |         | 2400.00                      | -46.350                  | -15.98      | -30.370         | PASS   |
|               |        |         | 9601.90                      | -34.142                  | -15.98      | -18.162         | PASS   |
|               |        | 39      | 9757.93                      | -34.275                  | -16.19      | -18.085         | PASS   |
|               |        | 78      | 2483.50                      | -51.200                  | -15.94      | -35.260         | PASS   |
|               |        |         | 9914.00                      | -35.601                  | -15.94      | -19.661         | PASS   |
| 8DPSK         | 3-DH5  | 0       | 2398.96                      | -40.576                  | -15.99      | -24.586         | PASS   |
|               |        |         | 2400.00                      | -44.990                  | -15.99      | -29.000         | PASS   |
|               |        |         | 9601.90                      | -34.138                  | -15.99      | -18.148         | PASS   |
|               |        | 39      | 9757.93                      | -34.228                  | -16.15      | -18.078         | PASS   |
|               |        | 78      | 2483.50                      | -49.780                  | -15.9       | -33.880         | PASS   |
|               |        |         | 9914.00                      | -35.720                  | -15.9       | -19.820         | PASS   |

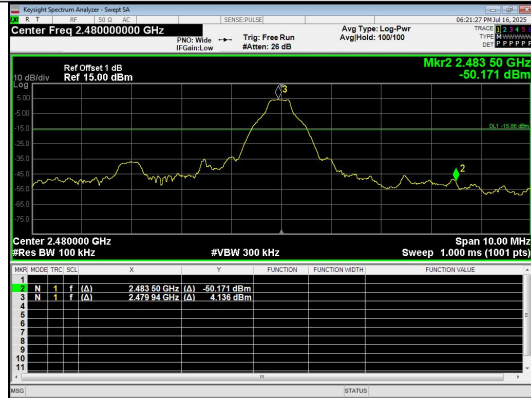
#### Hopping

| 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                               | -40.880                           | -16.02         | -24.860            | PASS   |
|               |        |         | 2483.50                               | -50.860                           | -16.03         | -34.830            | PASS   |
| $\pi/4$ DQPSK | 2-DH5  |         | 2398.96                               | -41.226                           | -16.0          | -25.226            | PASS   |
|               |        |         | 2400.00                               | -42.960                           | -16.0          | -26.960            | PASS   |
|               |        |         | 2483.50                               | -52.580                           | -16.07         | -36.510            | PASS   |
| 8DPSK         | 3-DH5  |         | 2398.97                               | -41.960                           | -16.11         | -25.850            | PASS   |
|               |        |         | 2400.00                               | -41.970                           | -16.11         | -25.860            | PASS   |
|               |        |         | 2483.50                               | -51.280                           | -15.9          | -35.380            | PASS   |

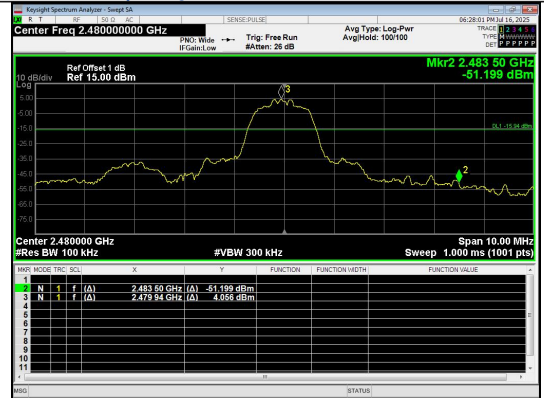
### Test Graphs



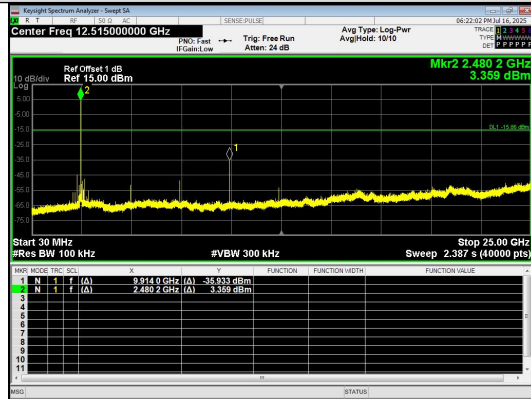
### GFSK\_DH5\_Channel 39



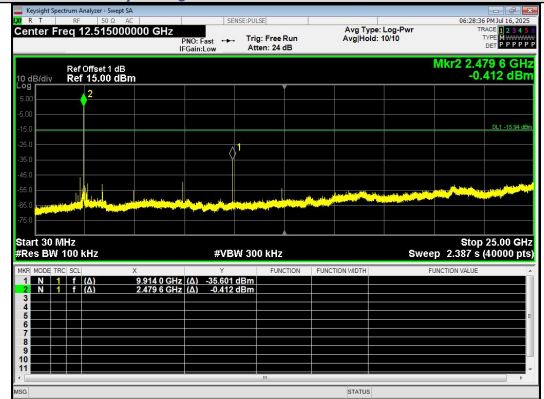
### $\pi/4$ DQPSK 2-DH5\_Channel 39



### Out Of Band Emission GFSK\_DH5\_Channel 78

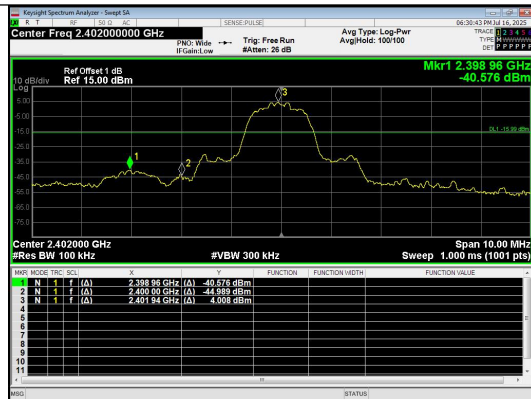


### Out Of Band Emission $\pi/4$ DQPSK 2-DH5\_Channel 78

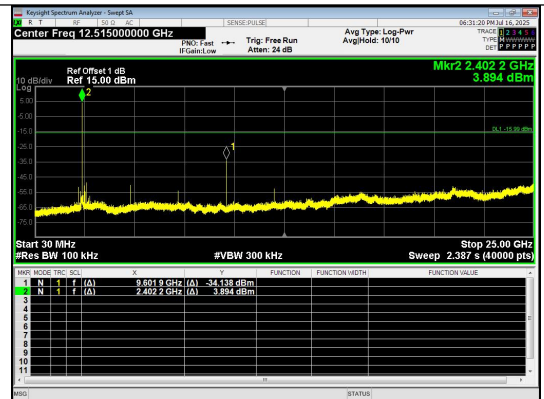


### 30.0 MHz - 25000.0 MHz GFSK\_DH5\_Channel 78

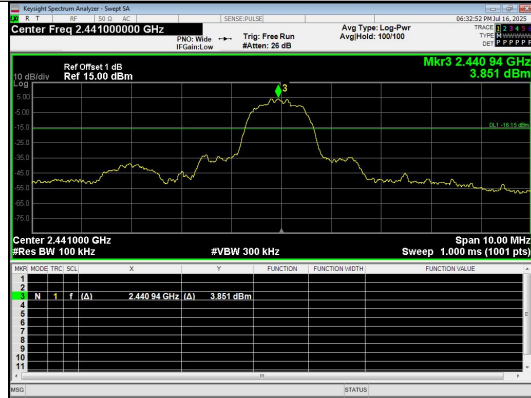
### 30.0 MHz - 25000.0 MHz $\pi/4$ DQPSK 2-DH5\_Channel 78



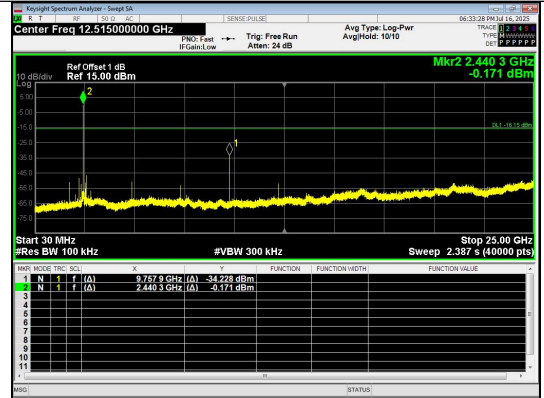
### Out Of Band Emission 8DPSK\_3-DH5\_Channel 0



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



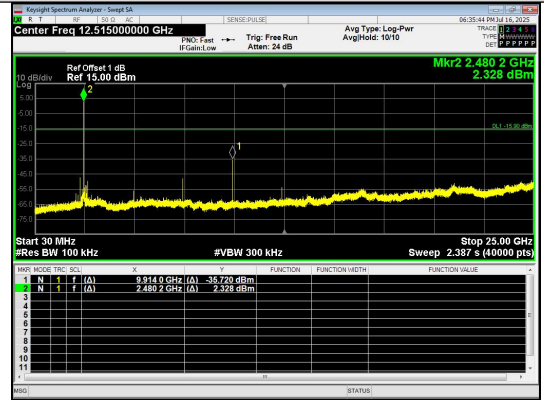
Out Of Band Emission  
8DPSK\_3-DH5\_Channel 39



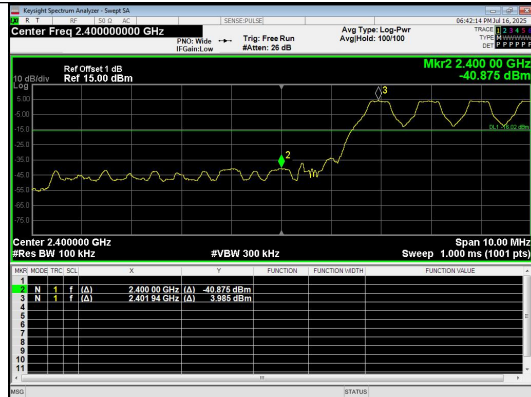
30.0 MHz - 25000.0 MHz  
8DPSK\_3-DH5\_Channel 39



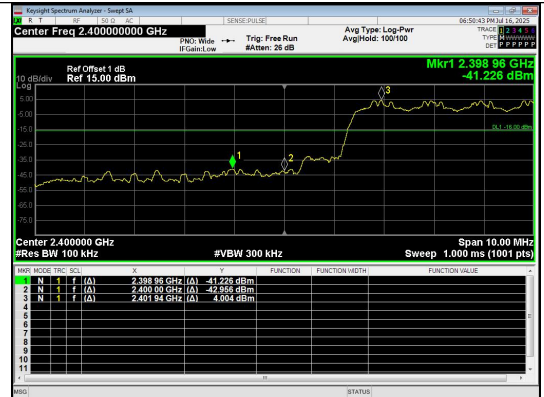
Out Of Band Emission  
8DPSK\_3-DH5\_Channel 78



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



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



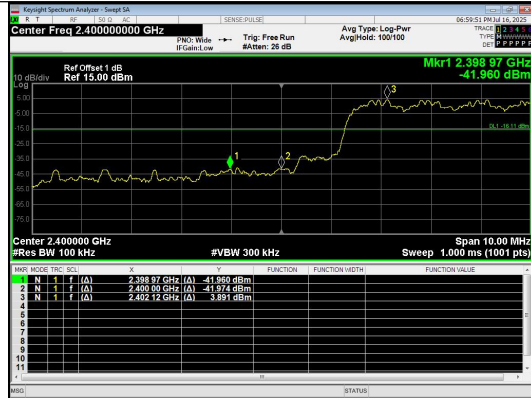
Out Of Band Emission(Left)  
 $\pi/4$ DQPSK\_2-DH5\_Channel Hopping



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