

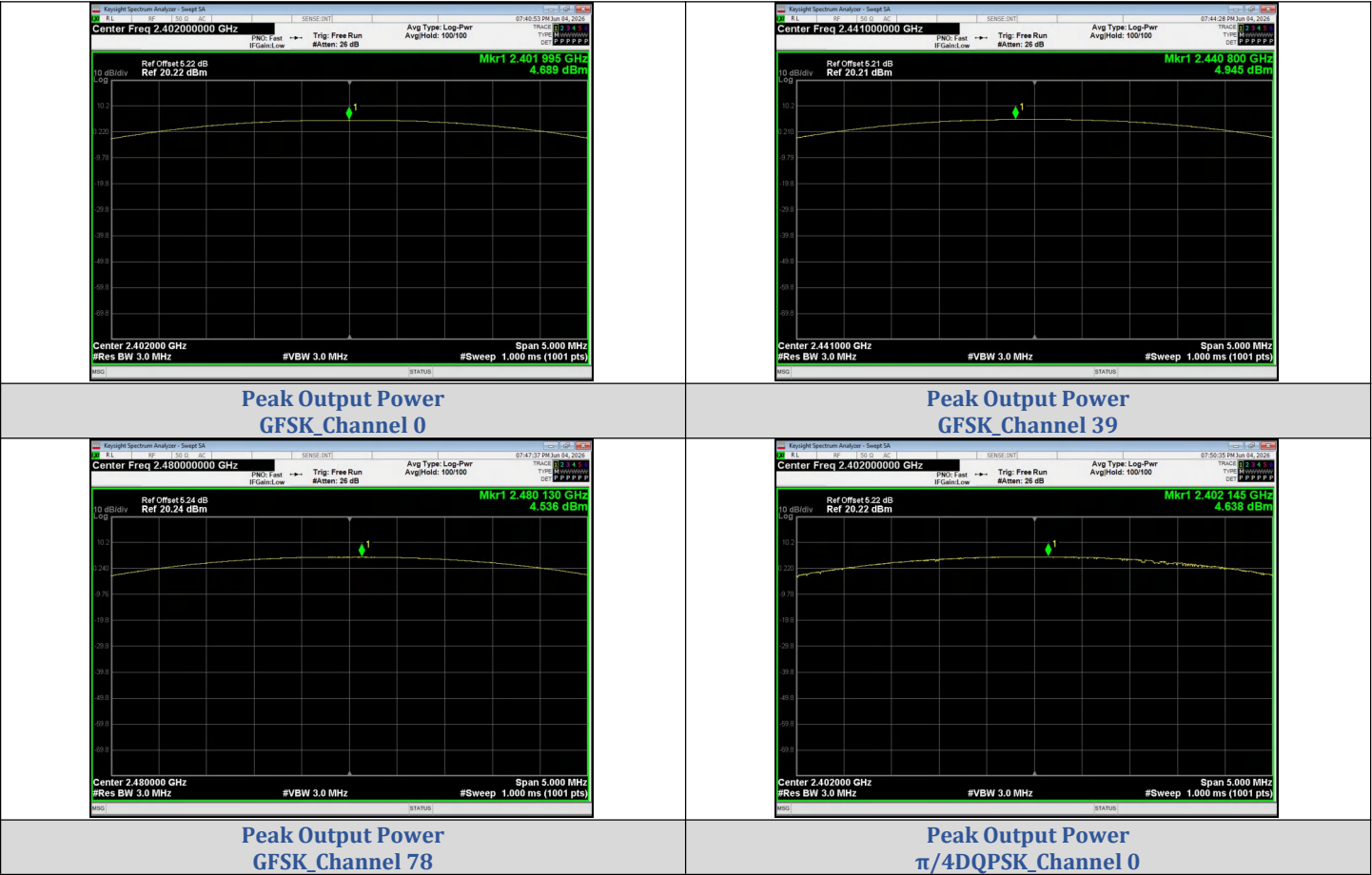
Appendix A:Test Results of Bluetooth BR & EDR

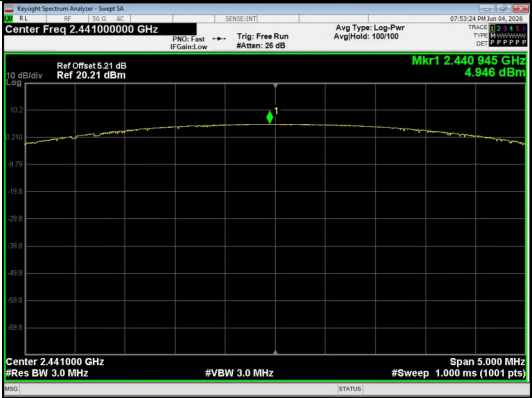
Conducted Output Power

Test Result

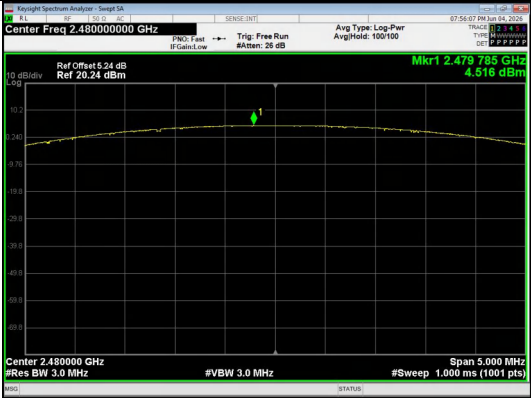
| Modulation    | Packet Type | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Max. Avg. Power (dBm) | Limit (dBm) | Result |
|---------------|-------------|---------|-------------------------|------------------------|-----------------------|-------------|--------|
| GFSK          | DH5         | 0       | 4.69                    | 2.94                   | None                  | ≤30         | PASS   |
|               |             | 39      | 4.95                    | 3.12                   | None                  |             | PASS   |
|               |             | 78      | 4.54                    | 2.84                   | None                  |             | PASS   |
| $\pi$ /4DQPSK | 2-DH5       | 0       | 4.64                    | 2.91                   | None                  |             | PASS   |
|               |             | 39      | 4.95                    | 3.12                   | None                  |             | PASS   |
|               |             | 78      | 4.52                    | 2.83                   | None                  |             | PASS   |
| 8DPSK         | 3-DH5       | 0       | 4.63                    | 2.91                   | None                  |             | PASS   |
|               |             | 39      | 4.93                    | 3.11                   | None                  |             | PASS   |
|               |             | 78      | 4.52                    | 2.83                   | None                  |             | PASS   |

Test Graphs

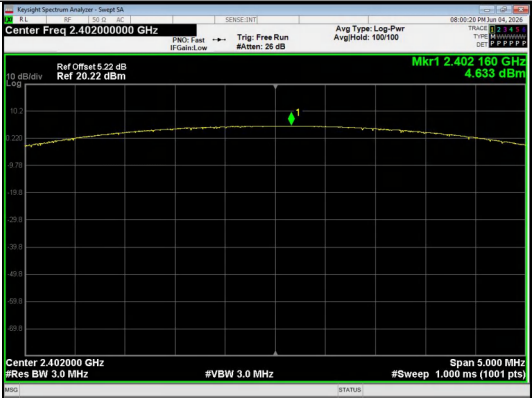




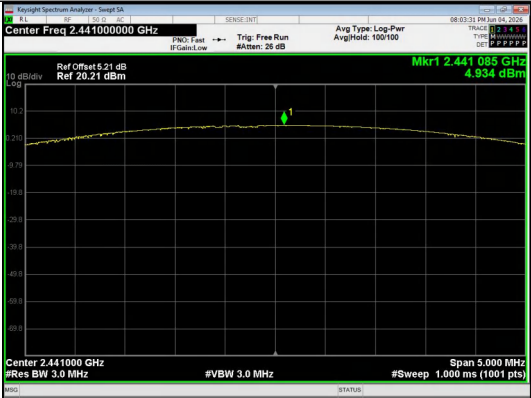
Peak Output Power  
 $\pi/4$ DQPSK\_Channel 39



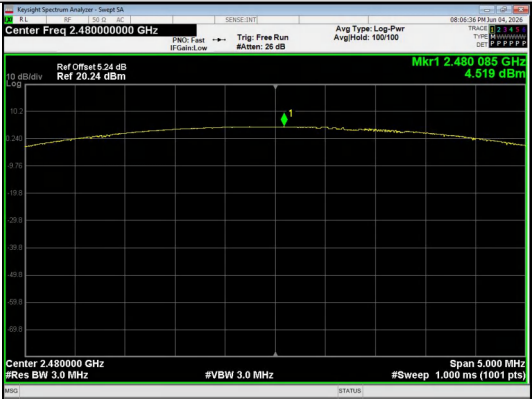
Peak Output Power  
 $\pi/4$ DQPSK\_Channel 78



Peak Output Power  
8DPSK\_Channel 0



Peak Output Power  
8DPSK\_Channel 39



Peak Output Power  
8DPSK\_Channel 78

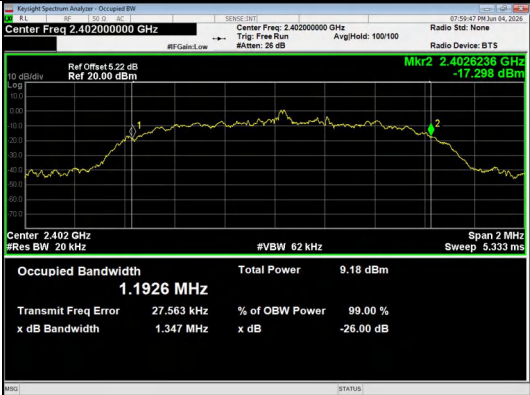
## 99% Bandwidth

## Test Result

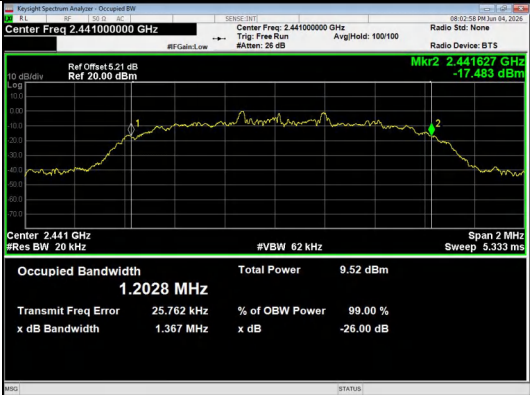
| Modulation    | Channel | Center Frequency (MHz) | 99% BW (MHz) |
|---------------|---------|------------------------|--------------|
| GFSK          | 0       | 2402                   | 0.86868      |
|               | 39      | 2441                   | 0.87320      |
|               | 78      | 2480                   | 0.87460      |
| $\pi/4$ DQPSK | 0       | 2402                   | 1.1714       |
|               | 39      | 2441                   | 1.1869       |
|               | 78      | 2480                   | 1.1769       |
| 8DPSK         | 0       | 2402                   | 1.1926       |
|               | 39      | 2441                   | 1.2028       |
|               | 78      | 2480                   | 1.1962       |

## Test Graphs

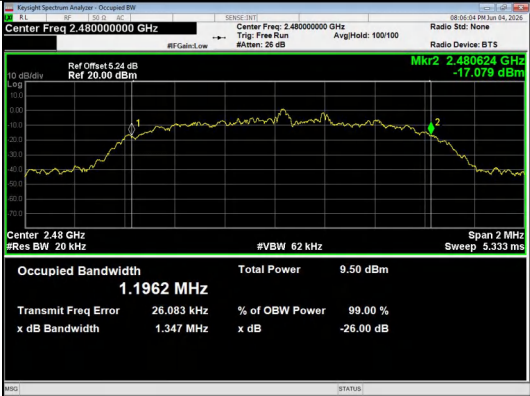




8DPSK\_3-DH5\_Channel 0



8DPSK\_3-DH5\_Channel 39



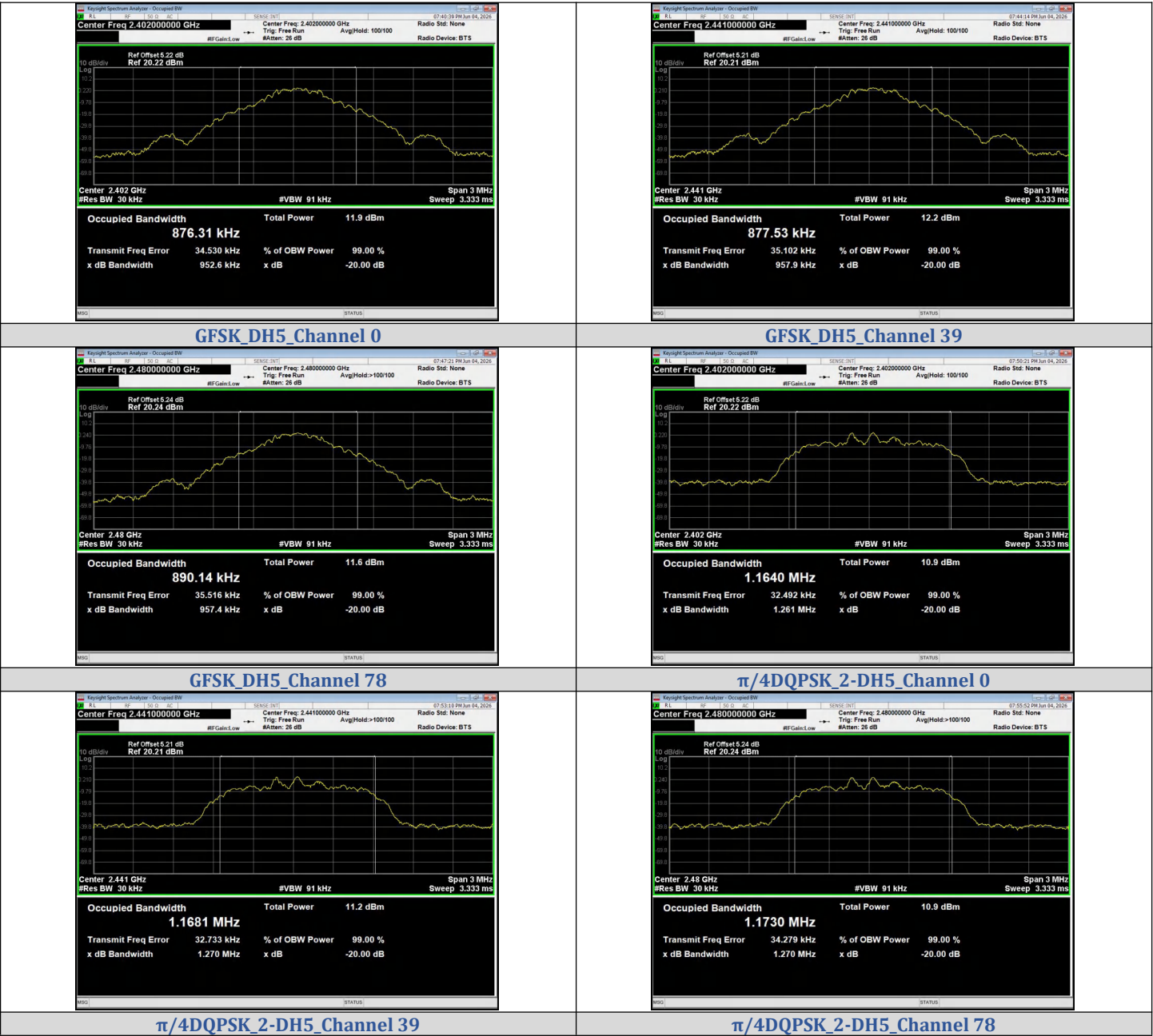
8DPSK\_3-DH5\_Channel 78

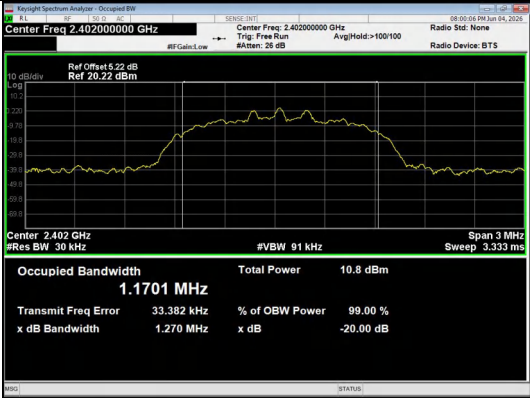
20dB Bandwidth

Test Result

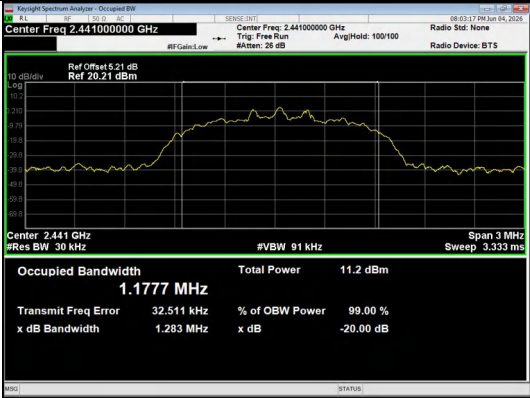
| Modulation    | Channel | Center Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------------|---------|------------------------|-----------------------|
| GFSK          | 0       | 2402 MHz               | 0.9526                |
|               | 39      | 2441 MHz               | 0.9579                |
|               | 78      | 2480 MHz               | 0.9574                |
| $\pi/4$ DQPSK | 0       | 2402 MHz               | 1.261                 |
|               | 39      | 2441 MHz               | 1.270                 |
|               | 78      | 2480 MHz               | 1.270                 |
| 8DPSK         | 0       | 2402 MHz               | 1.270                 |
|               | 39      | 2441 MHz               | 1.283                 |
|               | 78      | 2480 MHz               | 1.286                 |

Test Graphs

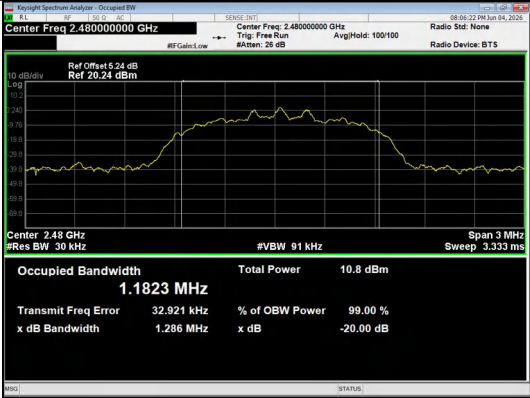




8DPSK\_3-DH5\_Channel 0



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    | 2440.0528                   | 2441.195                     | 1.1422                             | 0.639       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2440.1962                   | 2441.0522                    | 0.8560                             | 0.847       | PASS   |
| 8DPSK         | 3-DH5  | 2440.1977                   | 2439.1959                    | 1.0018                             | 0.857       | PASS   |

Test Graphs

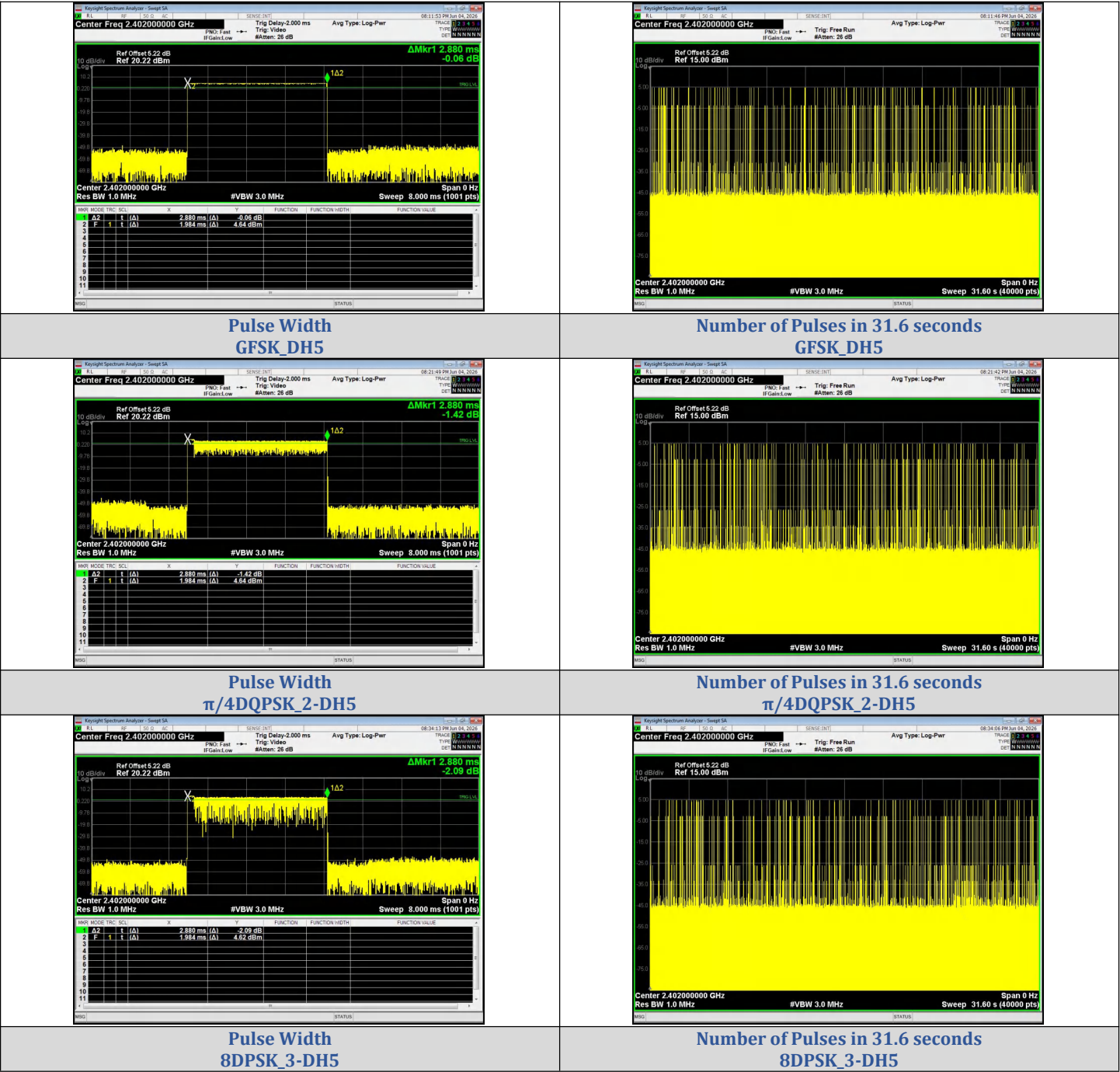


Dwell Time

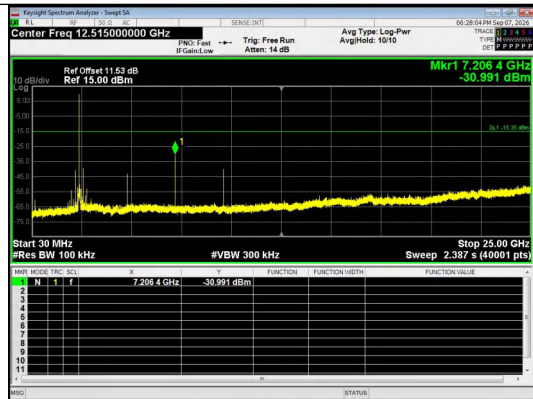
Test Result

| Modulation                                                       | Packet | Channel | Pulse Width (ms) | Number of Pulses in 31.6 seconds | Dwell Time (ms) | Limit (ms) | Result |
|------------------------------------------------------------------|--------|---------|------------------|----------------------------------|-----------------|------------|--------|
| GFSK                                                             | DH5    | Hopping | 2.880            | 100                              | 288.0           | < 400      | PASS   |
| $\pi/4$ DQPSK                                                    | 2-DH5  |         | 2.880            | 104                              | 299.52          |            | PASS   |
| 8DPSK                                                            | 3-DH5  |         | 2.880            | 97                               | 279.36          |            | PASS   |
| Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds |        |         |                  |                                  |                 |            |        |

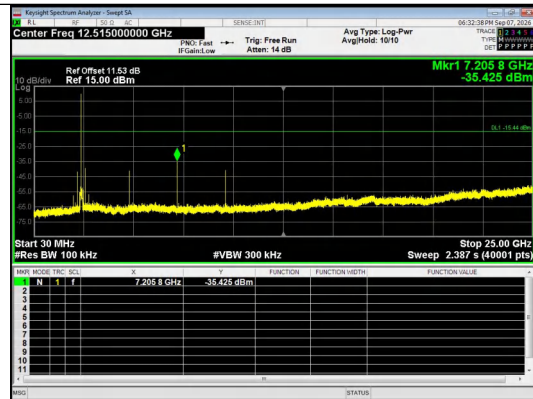
Test Graphs



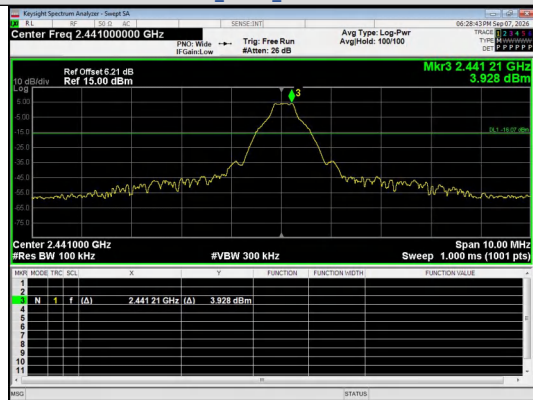
### Out Of Band Emission $\pi/4$ DQPSK 2-DH5 Channel 0



30.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 0



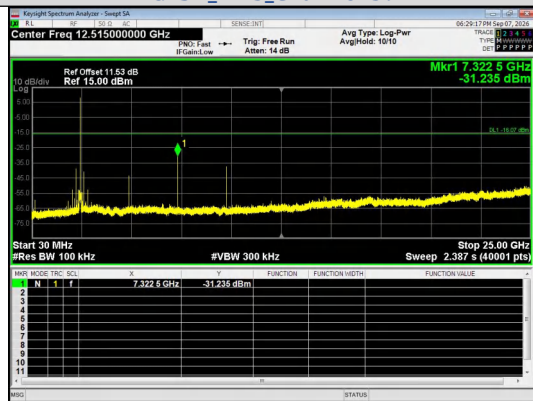
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 0



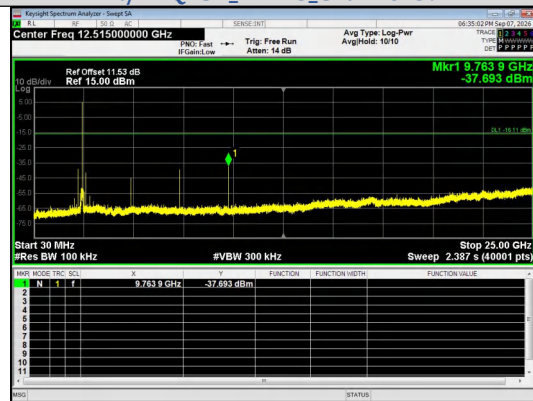
Out Of Band Emission  
GFSK\_DH5\_Channel 39



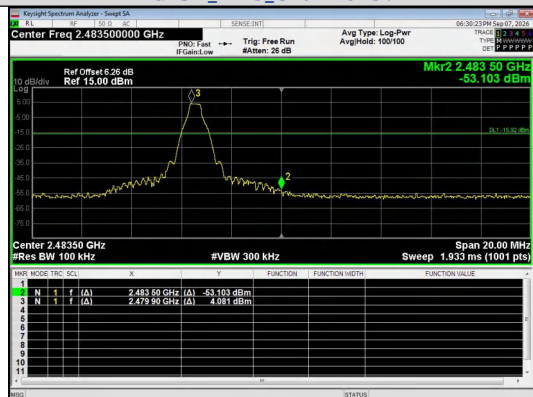
Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 39



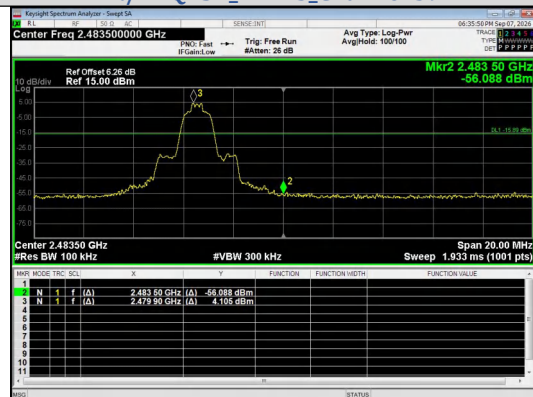
30.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 39



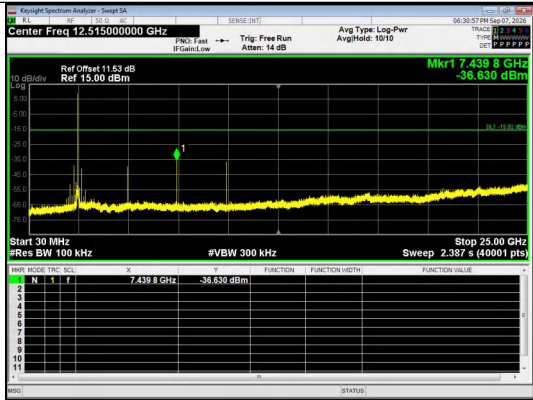
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 39



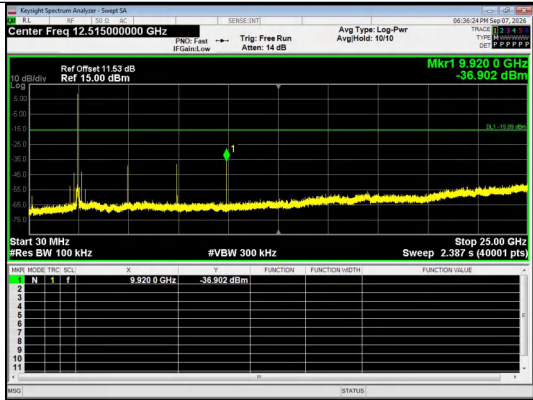
Out Of Band Emission  
GFSK\_DH5\_Channel 78



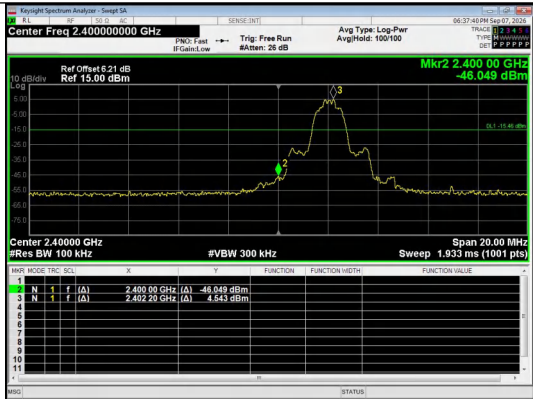
Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 78



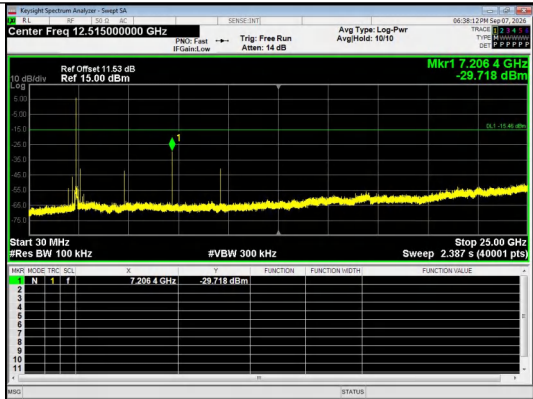
30.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 78



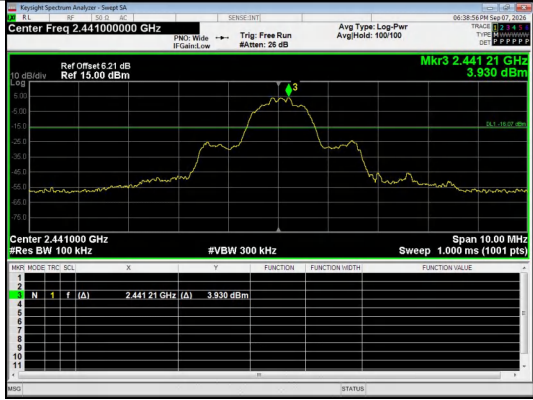
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 78



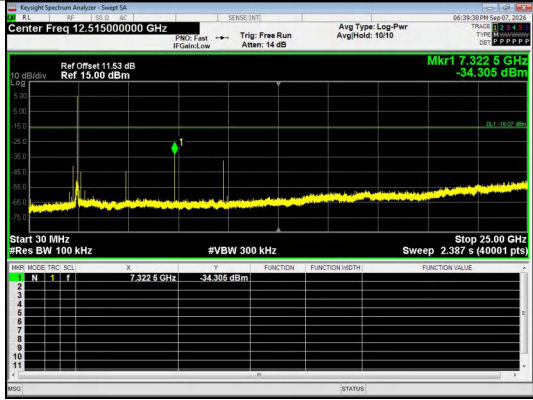
Out Of Band Emission  
8DPSK\_3-DH5\_Channel 0



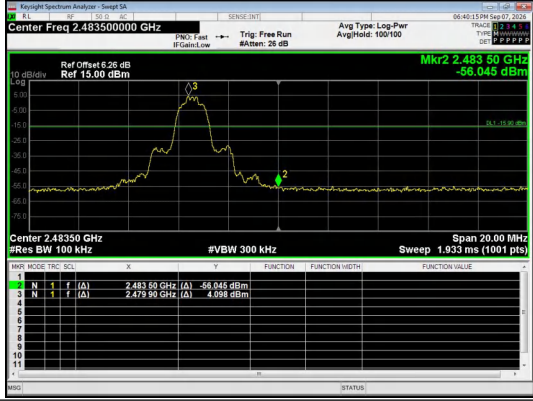
30.0 MHz - 25000.0 MHz  
8DPSK\_3-DH5\_Channel 0



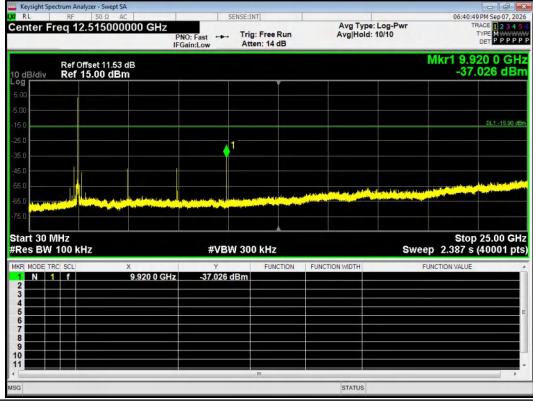
Out Of Band Emission  
8DPSK\_3-DH5\_Channel 39



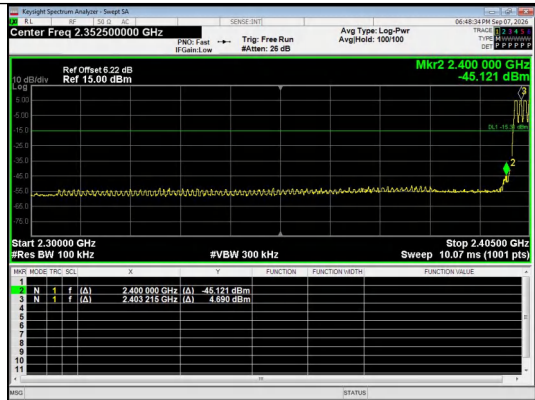
30.0 MHz - 25000.0 MHz  
8DPSK\_3-DH5\_Channel 39



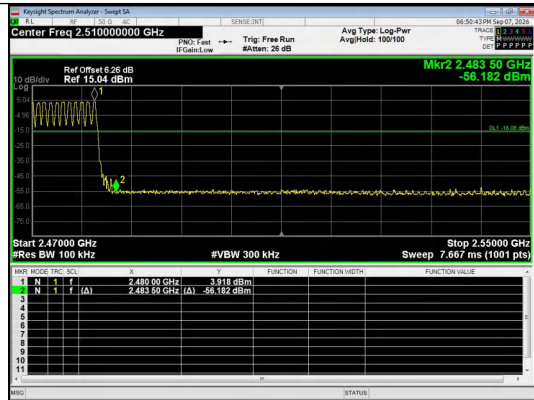
Out Of Band Emission



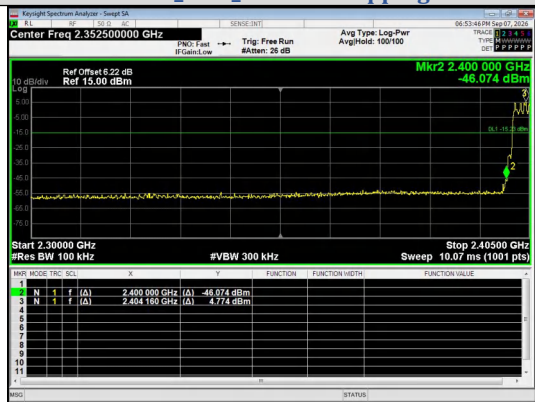
30.0 MHz - 25000.0 MHz



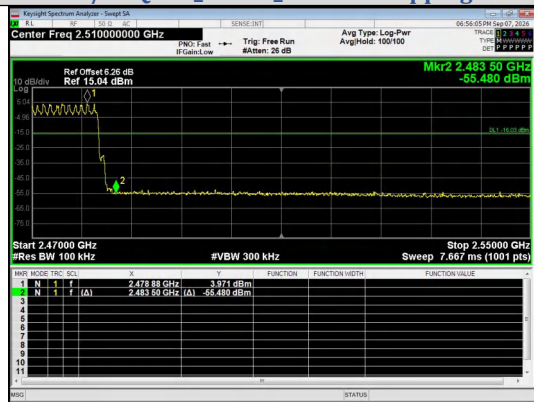
Out Of Band Emission(Left)  
GFSK\_DH5\_Channel Hopping



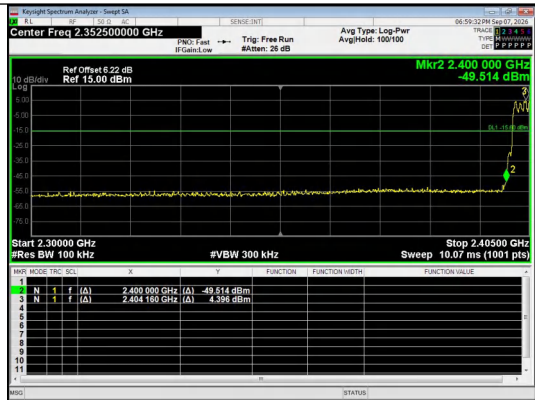
Out Of Band Emission(Left)  
 $\pi/4$ DQPSK\_2-DH5\_Channel Hopping



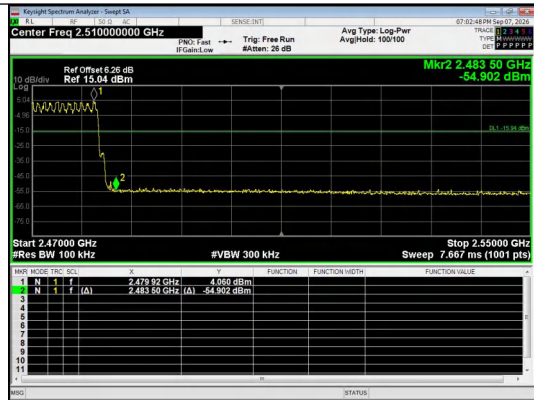
Out Of Band Emission(Right)  
GFSK\_DH5\_Channel Hopping



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