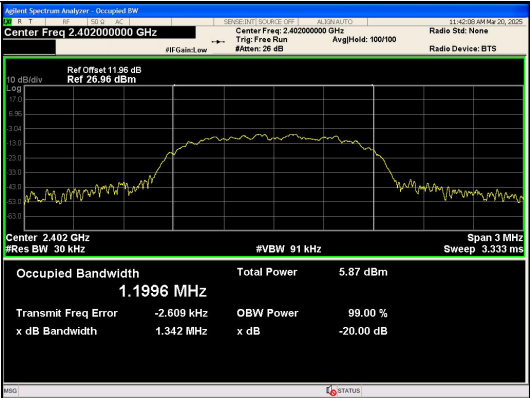
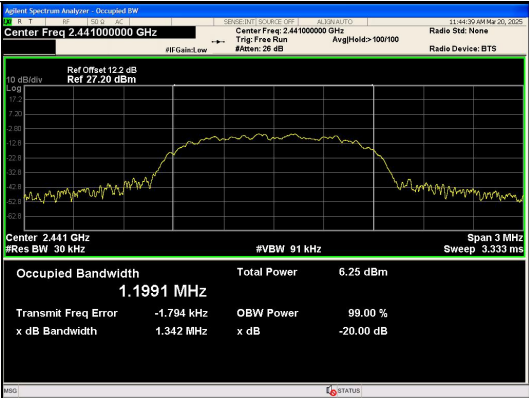
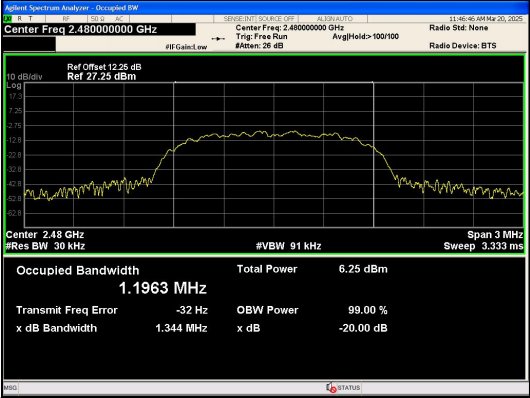




8DPSK\_3-DH5\_Channel 0



8DPSK\_3-DH5\_Channel 39



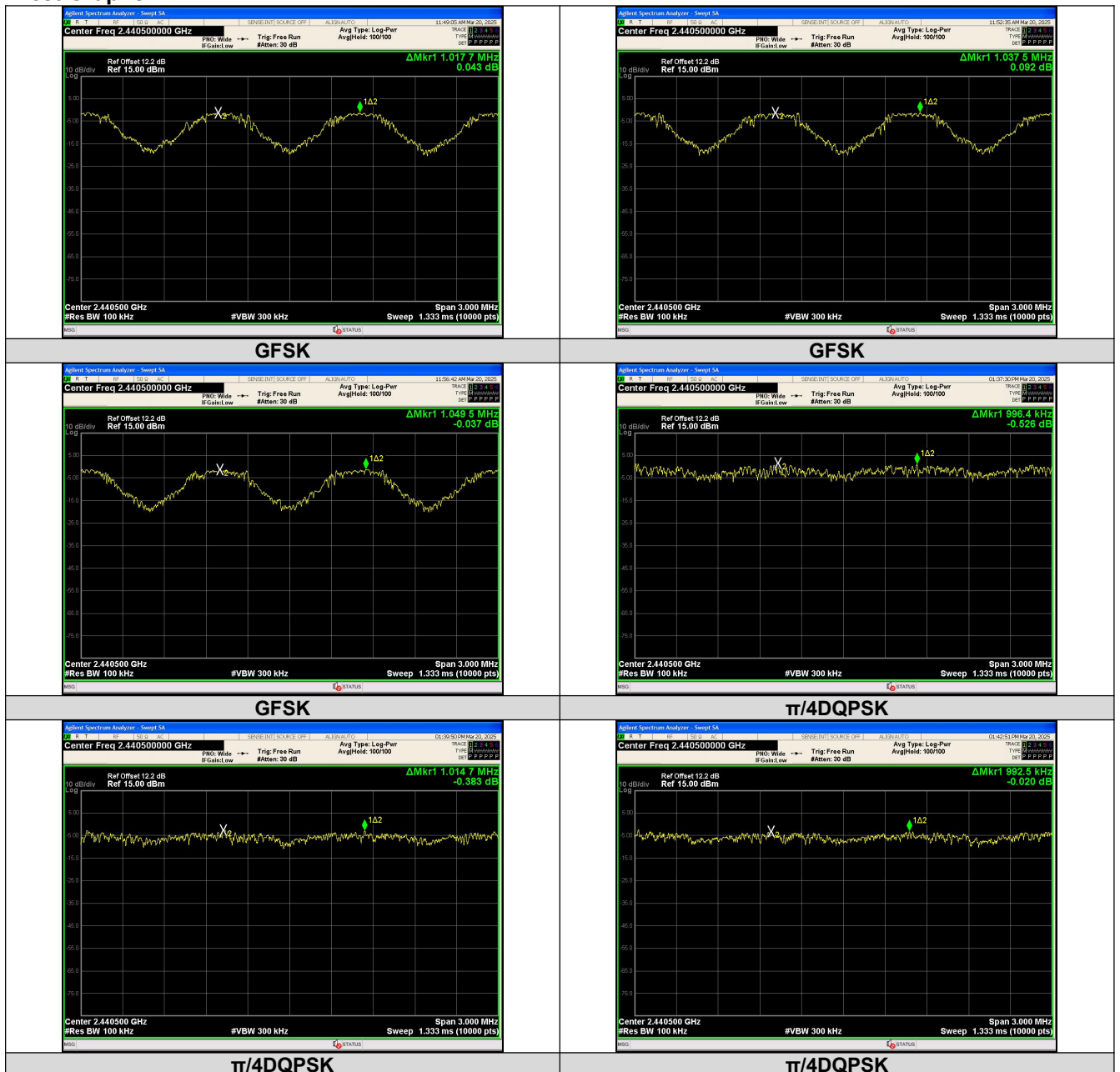
8DPSK\_3-DH5\_Channel 78

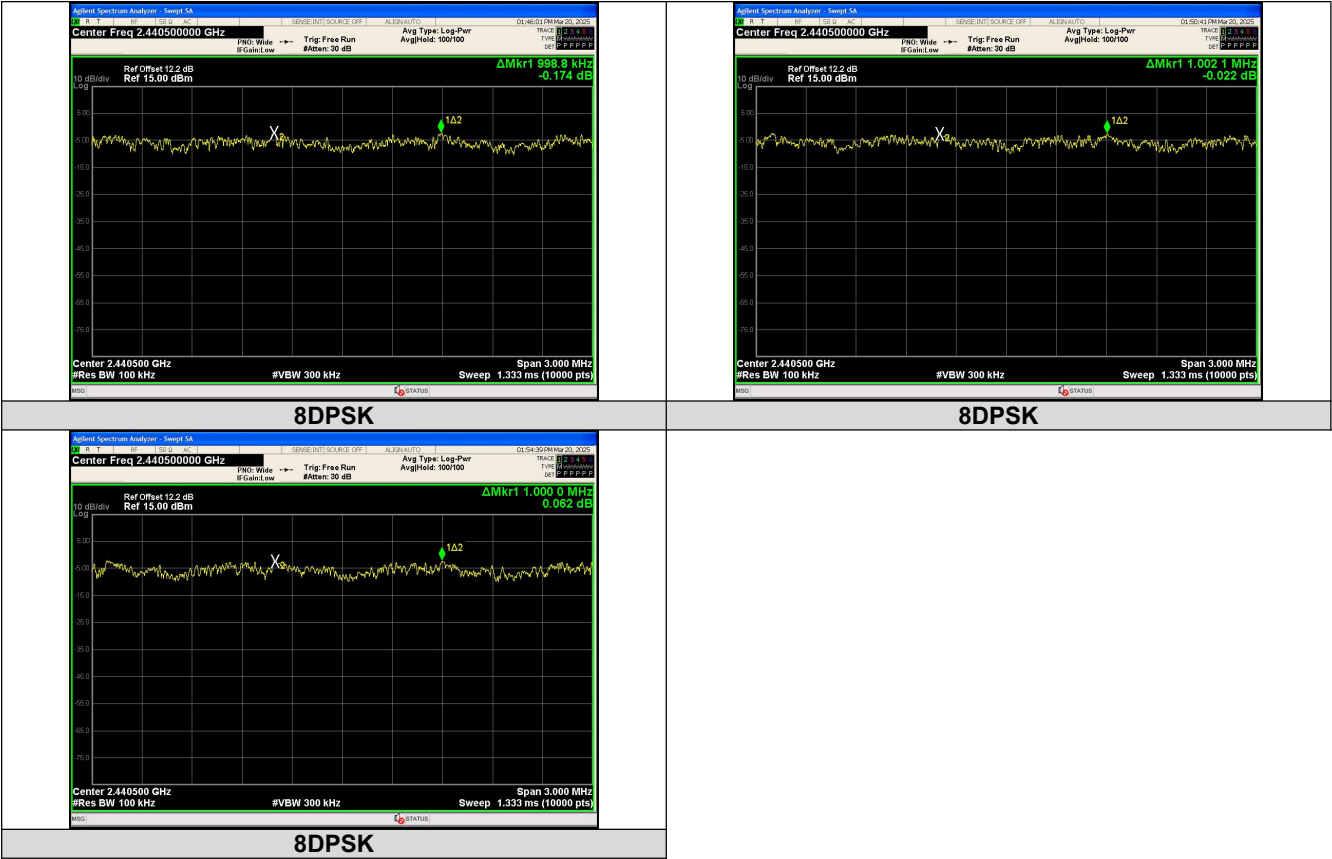
## APPENDIX IV. Carrier Frequencies Separation

### Test Result

| Modulation    | Packet | Left Center frequency (MHz) | Right Center frequency (MHz) | Hopping Frequency Separation (MHz) | Limit (MHz) | Result |
|---------------|--------|-----------------------------|------------------------------|------------------------------------|-------------|--------|
| GFSK          | DH5    | 2439.9877                   | 2441.0054                    | 1.0177                             | 0.687       | PASS   |
| GFSK          | DH5    | 2440.0114                   | 2441.0489                    | 1.0375                             | 0.687       | PASS   |
| GFSK          | DH5    | 2439.9985                   | 2441.048                     | 1.0495                             | 0.687       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2440.0309                   | 2441.0273                    | 0.9964                             | 0.907       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2440.0246                   | 2441.0393                    | 1.0147                             | 0.907       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2439.9814                   | 2440.9739                    | 0.9925                             | 0.907       | PASS   |
| 8DPSK         | 3-DH5  | 2440.0924                   | 2441.0912                    | 0.9988                             | 0.896       | PASS   |
| 8DPSK         | 3-DH5  | 2440.1017                   | 2441.1038                    | 1.0021                             | 0.896       | PASS   |
| 8DPSK         | 3-DH5  | 2440.0978                   | 2441.0978                    | 1.0000                             | 0.896       | PASS   |

### Test Graphs





**APPENDIX V. Conducted Out Of Band Emission****Test Result****Non-Hopping**

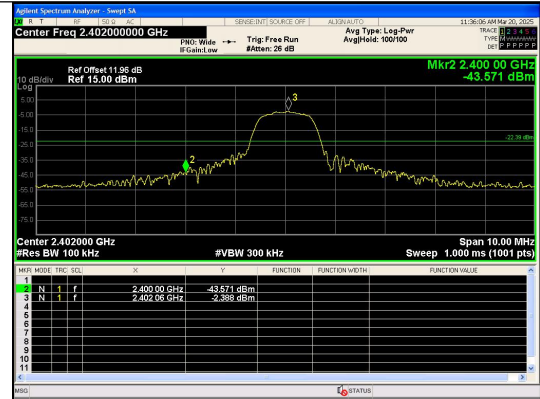
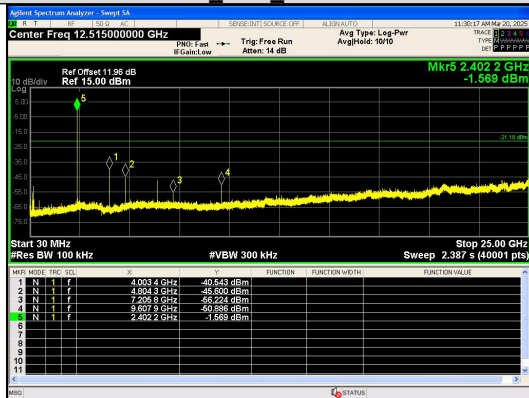
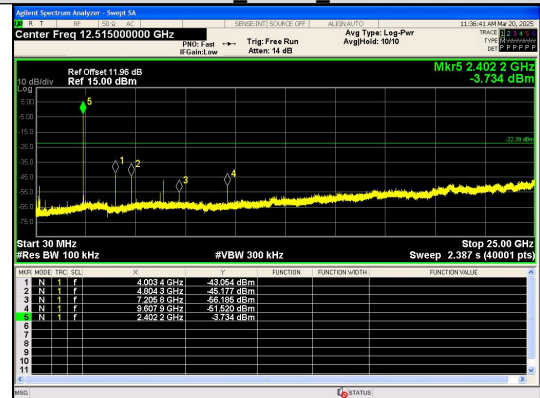
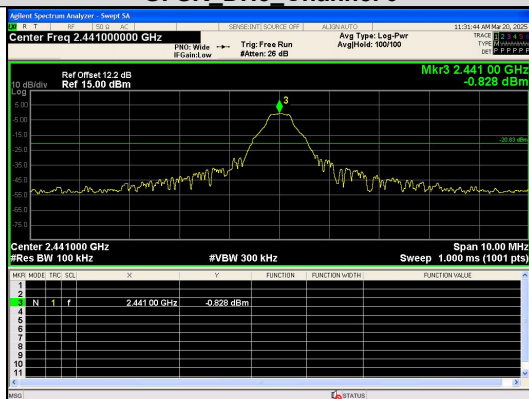
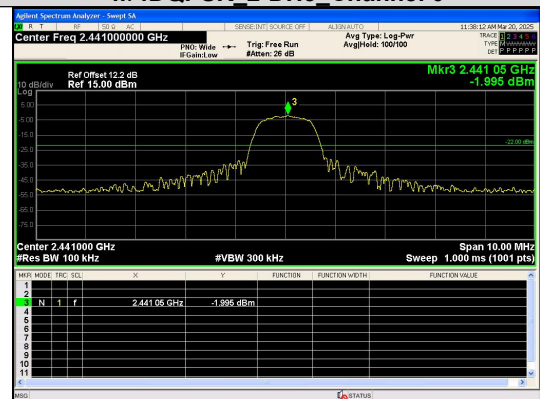
| Modulation    | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK          | DH5    | 0       | 2400.00                      | -43.804                  | -21.18      | -22.624         | PASS   |
|               |        |         | 4003.35                      | -40.543                  | -21.18      | -19.363         | PASS   |
|               |        |         | 4804.26                      | -45.600                  | -21.18      | -24.420         | PASS   |
|               |        |         | 7205.75                      | -56.224                  | -21.18      | -35.044         | PASS   |
|               |        |         | 9607.87                      | -50.886                  | -21.18      | -29.706         | PASS   |
|               |        | 39      | 4068.27                      | -41.639                  | -20.83      | -20.809         | PASS   |
|               |        |         | 4882.30                      | -43.520                  | -20.83      | -22.690         | PASS   |
|               |        |         | 7323.11                      | -55.750                  | -20.83      | -34.920         | PASS   |
|               |        |         | 9763.93                      | -50.259                  | -20.83      | -29.429         | PASS   |
|               |        | 78      | 2483.50                      | -51.918                  | -20.77      | -31.148         | PASS   |
|               |        |         | 4959.70                      | -39.161                  | -20.77      | -18.391         | PASS   |
|               |        |         | 7439.85                      | -56.621                  | -20.77      | -35.851         | PASS   |
|               |        |         | 9919.99                      | -52.201                  | -20.77      | -31.431         | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 0       | 2400.00                      | -43.571                  | -22.39      | -21.181         | PASS   |
|               |        |         | 4003.35                      | -43.054                  | -22.39      | -20.664         | PASS   |
|               |        |         | 4804.26                      | -45.177                  | -22.39      | -22.787         | PASS   |
|               |        |         | 7205.75                      | -56.185                  | -22.39      | -33.795         | PASS   |
|               |        |         | 9607.87                      | -51.520                  | -22.39      | -29.130         | PASS   |
|               |        | 39      | 4881.67                      | -42.118                  | -22.0       | -20.118         | PASS   |
|               |        |         | 7323.11                      | -59.548                  | -22.0       | -37.548         | PASS   |
|               |        |         | 9763.93                      | -50.305                  | -22.0       | -28.305         | PASS   |
|               |        | 78      | 2483.50                      | -51.776                  | -21.97      | -29.806         | PASS   |
|               |        |         | 4959.70                      | -44.351                  | -21.97      | -22.381         | PASS   |
|               |        |         | 7439.85                      | -58.945                  | -21.97      | -36.975         | PASS   |
|               |        |         | 9919.99                      | -52.742                  | -21.97      | -30.772         | PASS   |
| 8DPSK         | 3-DH5  | 0       | 2400.00                      | -41.457                  | -22.2       | -19.257         | PASS   |
|               |        |         | 4002.73                      | -42.532                  | -22.2       | -20.332         | PASS   |
|               |        |         | 4804.26                      | -44.204                  | -22.2       | -22.004         | PASS   |
|               |        |         | 7205.75                      | -58.542                  | -22.2       | -36.342         | PASS   |
|               |        |         | 9607.87                      | -50.682                  | -22.2       | -28.482         | PASS   |
|               |        | 39      | 4068.27                      | -42.674                  | -21.83      | -20.844         | PASS   |
|               |        |         | 4882.30                      | -44.423                  | -21.83      | -22.593         | PASS   |
|               |        |         | 7322.49                      | -57.985                  | -21.83      | -36.155         | PASS   |
|               |        |         | 9763.93                      | -49.663                  | -21.83      | -27.833         | PASS   |
|               |        | 78      | 2483.50                      | -50.297                  | -21.83      | -28.467         | PASS   |
|               |        |         | 4959.70                      | -43.605                  | -21.83      | -21.775         | PASS   |
|               |        |         | 7439.85                      | -57.468                  | -21.83      | -35.638         | PASS   |
|               |        |         | 9919.99                      | -51.809                  | -21.83      | -29.979         | PASS   |

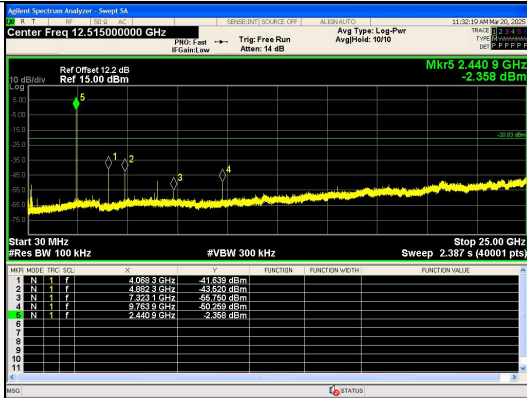
**Hopping**

| 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                               | -49.559                           | -21.24         | -28.319            | PASS   |
|            |        |         | 2483.50                               | -51.604                           | -20.91         | -30.694            | PASS   |
|            |        |         | 2400.00                               | -43.540                           | -21.32         | -22.220            | PASS   |
|            |        |         | 2483.50                               | -51.017                           | -20.63         | -30.387            | PASS   |
|            |        |         | 2395.00                               | -49.280                           | -21.21         | -28.070            | PASS   |
|            |        |         | 2400.00                               | -50.915                           | -21.21         | -29.705            | PASS   |
|            |        |         | 2483.50                               | -51.373                           | -20.74         | -30.633            | PASS   |
| π/4DQPSK   | 2-DH5  |         | 2398.46                               | -49.623                           | -18.16         | -31.463            | PASS   |
|            |        |         | 2400.00                               | -52.141                           | -18.16         | -33.981            | PASS   |
|            |        |         | 2483.50                               | -50.833                           | -18.14         | -32.693            | PASS   |
|            |        |         | 2395.31                               | -49.727                           | -22.44         | -27.287            | PASS   |
|            |        |         | 2400.00                               | -51.910                           | -22.44         | -29.470            | PASS   |
|            |        |         | 2483.50                               | -52.067                           | -22.52         | -29.547            | PASS   |
|            |        |         | 2397.26                               | -50.179                           | -22.95         | -27.229            | PASS   |
|            |        |         | 2400.00                               | -51.773                           | -22.95         | -28.823            | PASS   |
|            |        |         | 2483.50                               | -51.253                           | -22.57         | -28.683            | PASS   |
|            |        |         |                                       |                                   |                |                    |        |

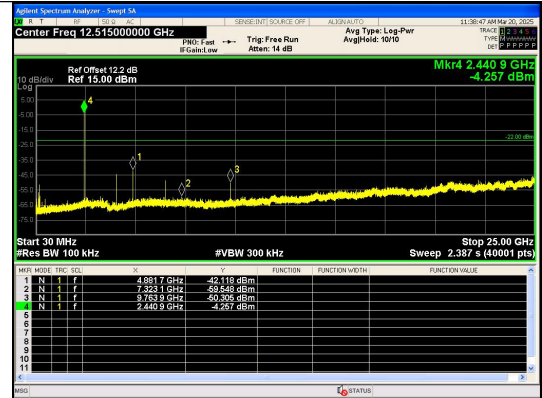
|       |       |         |         |        |         |      |
|-------|-------|---------|---------|--------|---------|------|
| 8DPSK | 3-DH5 | 2398.60 | -50.071 | -22.17 | -27.901 | PASS |
|       |       | 2400.00 | -51.930 | -22.17 | -29.760 | PASS |
|       |       | 2483.50 | -51.235 | -21.76 | -29.475 | PASS |
|       |       | 2398.98 | -48.361 | -22.35 | -26.011 | PASS |
|       |       | 2400.00 | -52.274 | -22.35 | -29.924 | PASS |
|       |       | 2483.50 | -50.969 | -22.18 | -28.789 | PASS |
|       |       | 2398.98 | -50.094 | -22.18 | -27.914 | PASS |
|       |       | 2400.00 | -51.631 | -22.18 | -29.451 | PASS |
|       |       | 2483.50 | -50.695 | -22.07 | -28.625 | PASS |

## Test Graphs

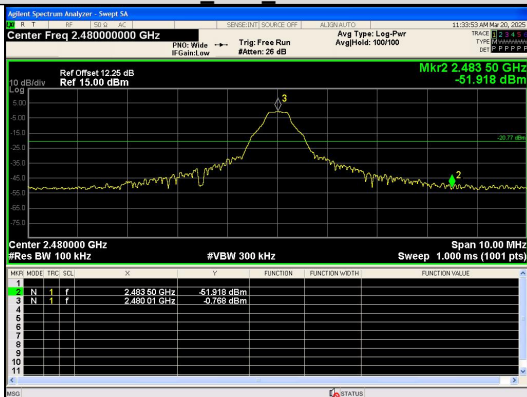
Out Of Band Emission  
GFSK\_DH5\_Channel 0Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 030.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 030.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 0Out Of Band Emission  
GFSK\_DH5\_Channel 39Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 39



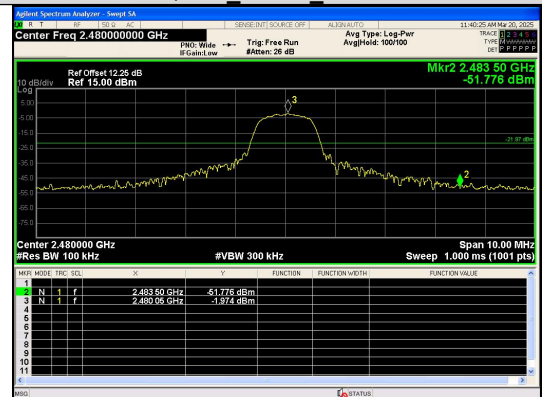
30.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 39



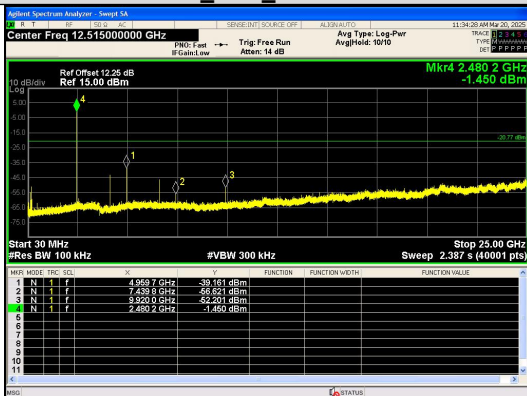
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 39



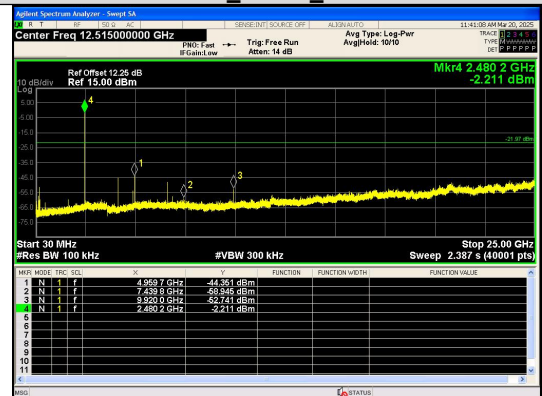
Out Of Band Emission  
GFSK\_DH5\_Channel 78



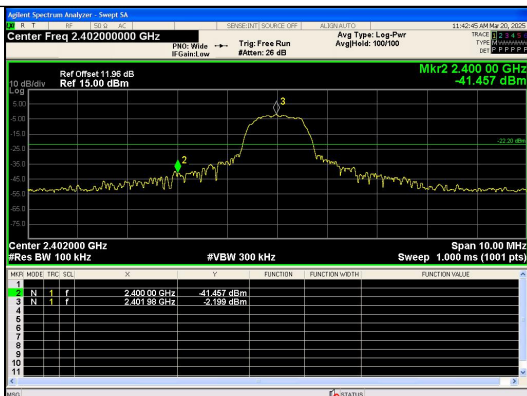
Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 78



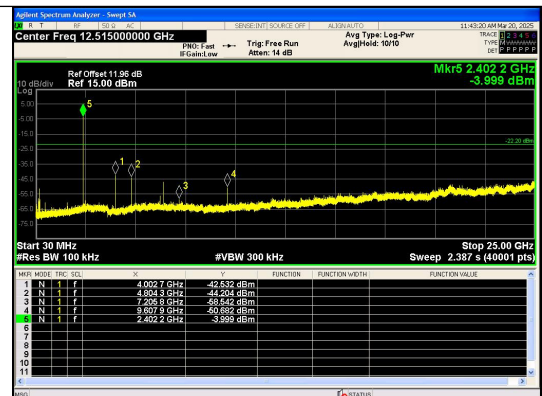
30.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 78



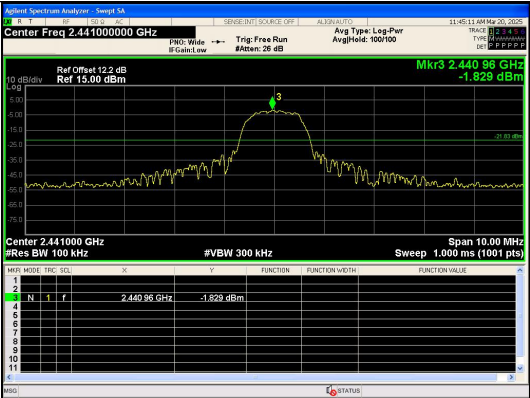
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 78



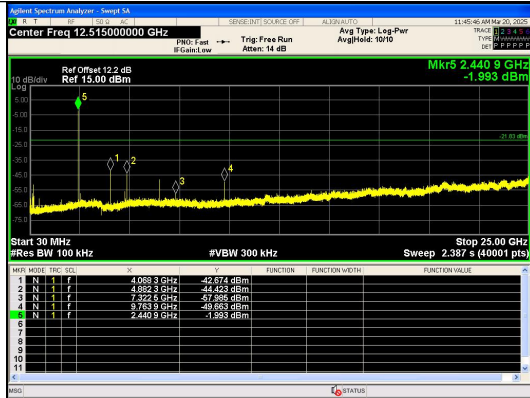
Out Of Band Emission  
8DPSK\_3-DH5\_Channel 0



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



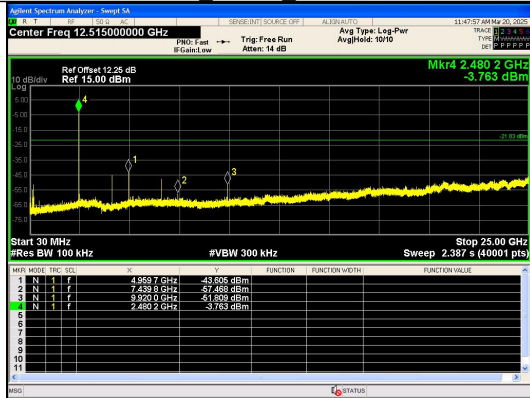
Out of Band Emission  
8DPSK\_3-DH5\_Channel 39



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



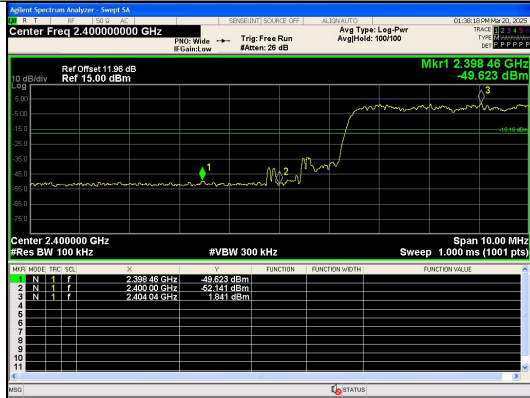
Out of Band Emission  
8DPSK\_3-DH5\_Channel 78



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