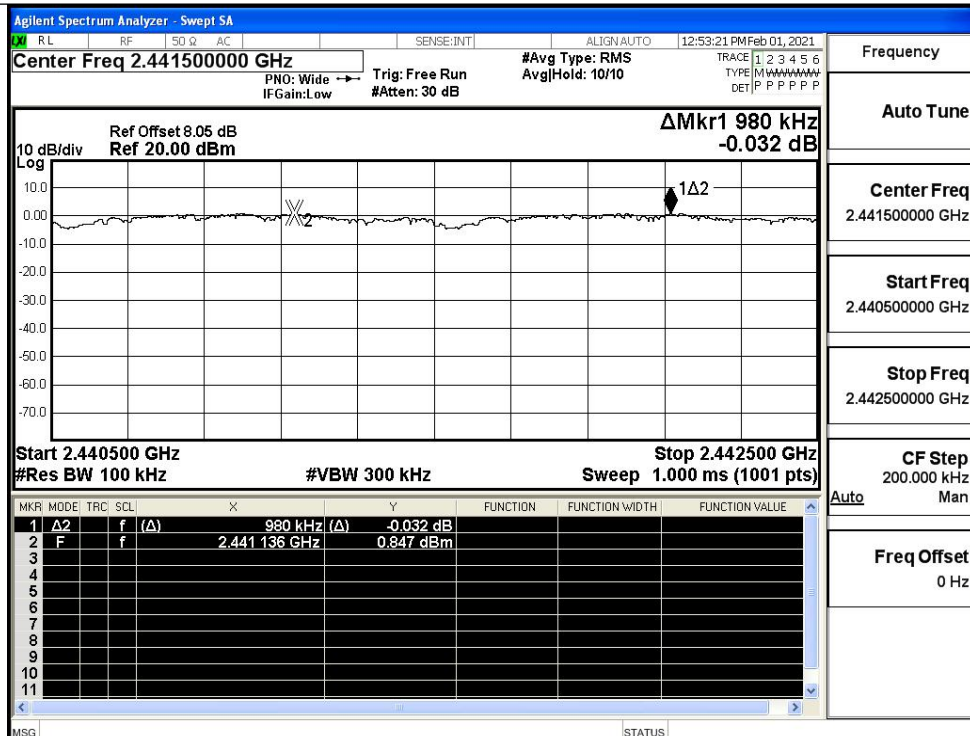
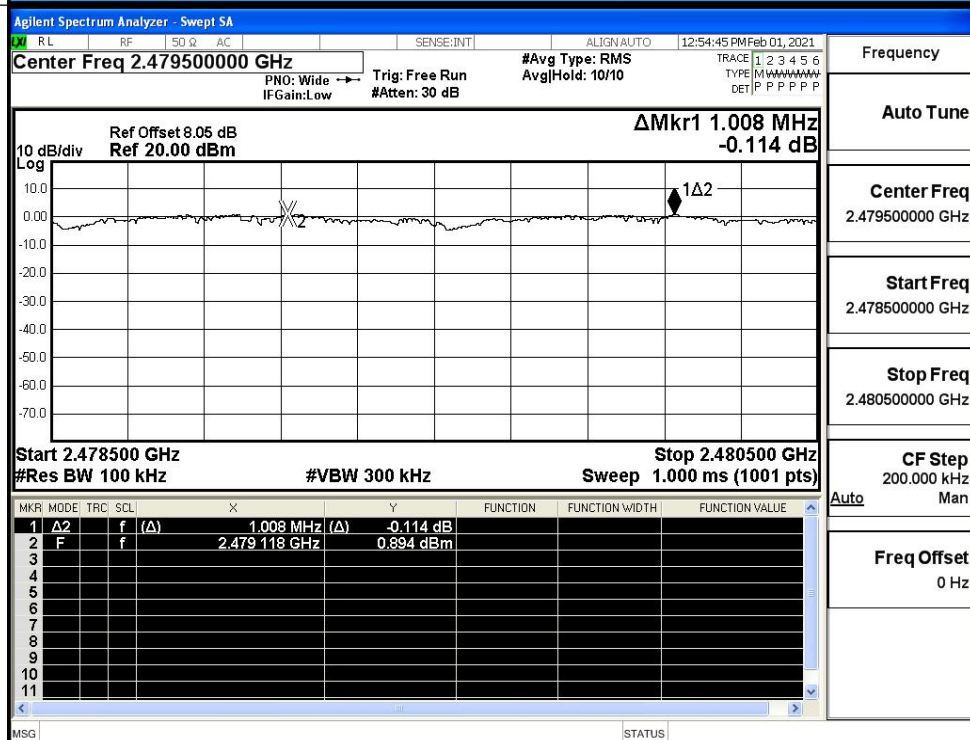


8DPSK/MCH



8DPSK/HCH

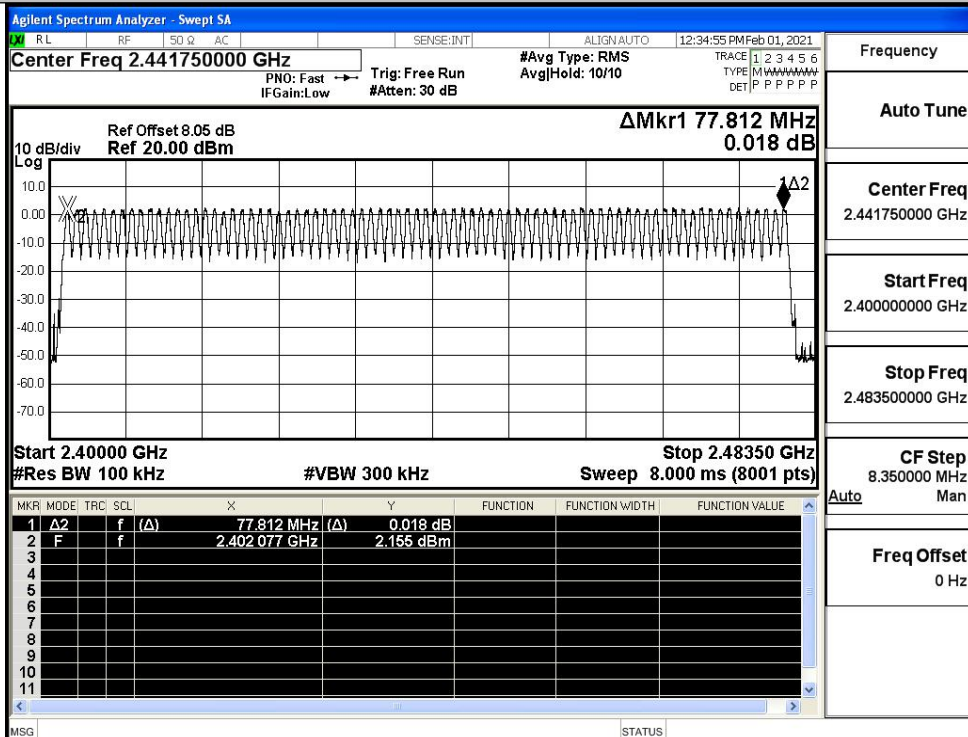
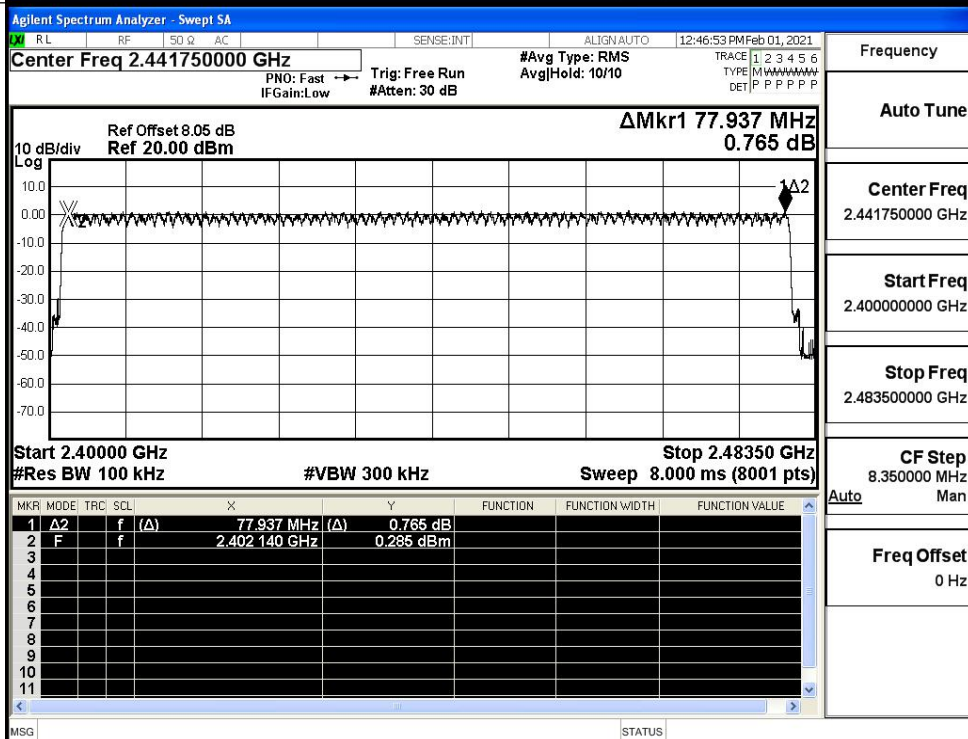


## A.5 Hopping Channel Number

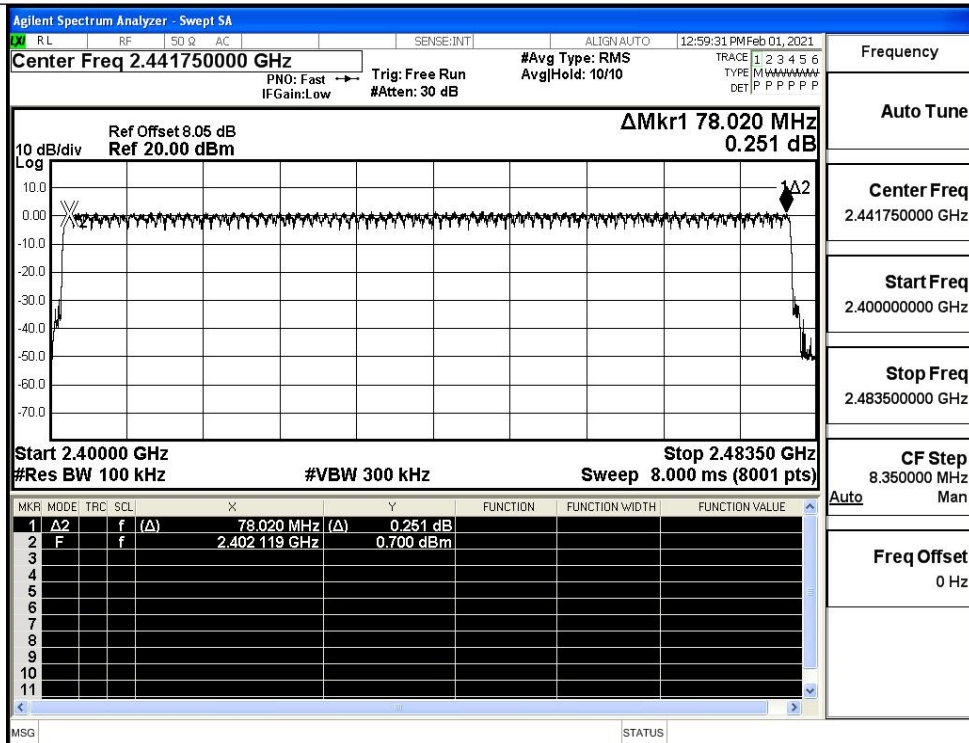
| Mode          | Channel. | Number of Hopping Channel [N] | Limit [N] | Verdict |
|---------------|----------|-------------------------------|-----------|---------|
| GFSK          | Hop      | 79                            | >=15      | PASS    |
| $\pi/4$ DQPSK | Hop      | 79                    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

## Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

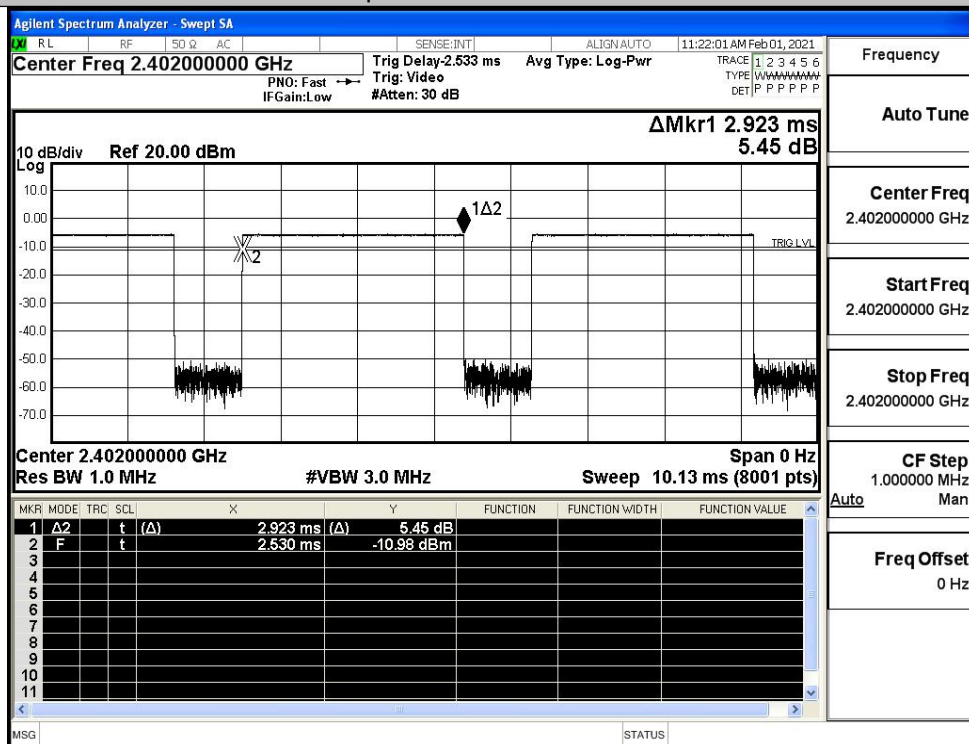


## A.6 Dwell Time

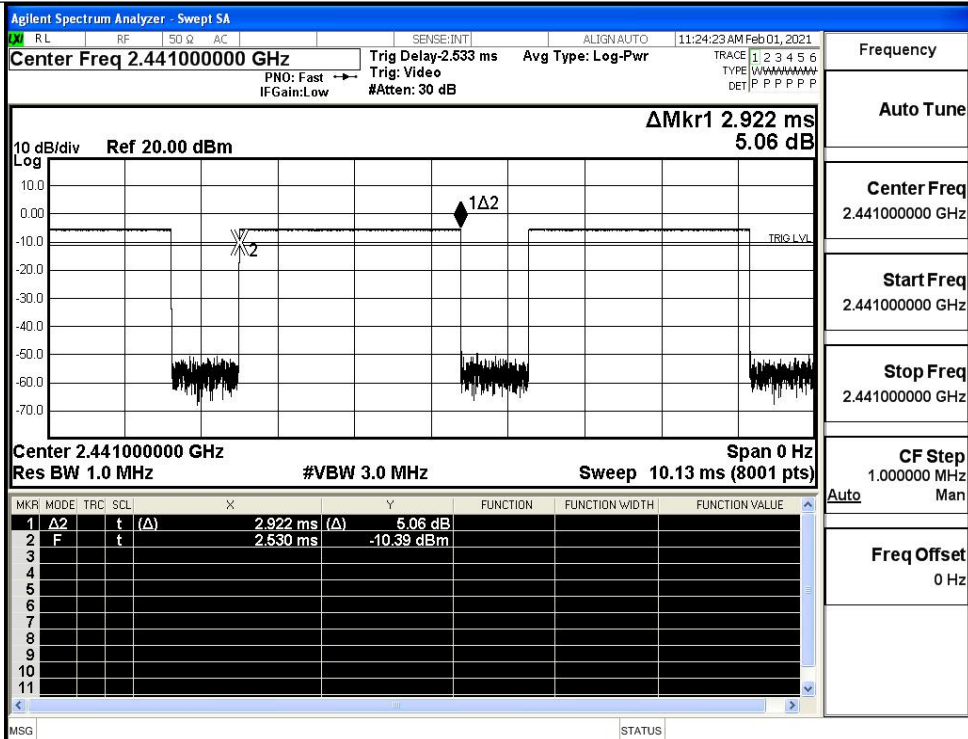
| Mode          | Packet | Channel | Burst Width<br>[ms/hop/ch] | Total<br>Hops[hop*ch] | Dwell Time[s] | Limit [s] | Verdict |
|---------------|--------|---------|----------------------------|-----------------------|---------------|-----------|---------|
| GFSK          | DH5    | LCH     | 2.92                       | 106.7                 | 0.312         | 0.4       | PASS    |
|               | DH5    | MCH     | 2.92                       | 106.7                 | 0.312         | 0.4       | PASS    |
|               | DH5    | HCH     | 2.93                       | 106.7                 | 0.313         | 0.4       | PASS    |
| $\pi/4$ DQPSK | 2DH5   | LCH     | 2.92                       | 106.7                 | 0.314         | 0.4       | PASS    |
|               | 2DH5   | MCH     | 2.92                       | 106.7                 | 0.312         | 0.4       | PASS    |
|               | 2DH5   | HCH     | 2.93                       | 106.7                 | 0.312         | 0.4       | PASS    |
| 8DPSK         | 3DH5   | LCH     | 2.92                       | 106.7                 | 0.312         | 0.4       | PASS    |
|               | 3DH5   | MCH     | 2.92                       | 106.7                 | 0.312         | 0.4       | PASS    |
|               | 3DH5   | HCH     | 2.93                       | 106.7                 | 0.313         | 0.4       | PASS    |

Test Graphs

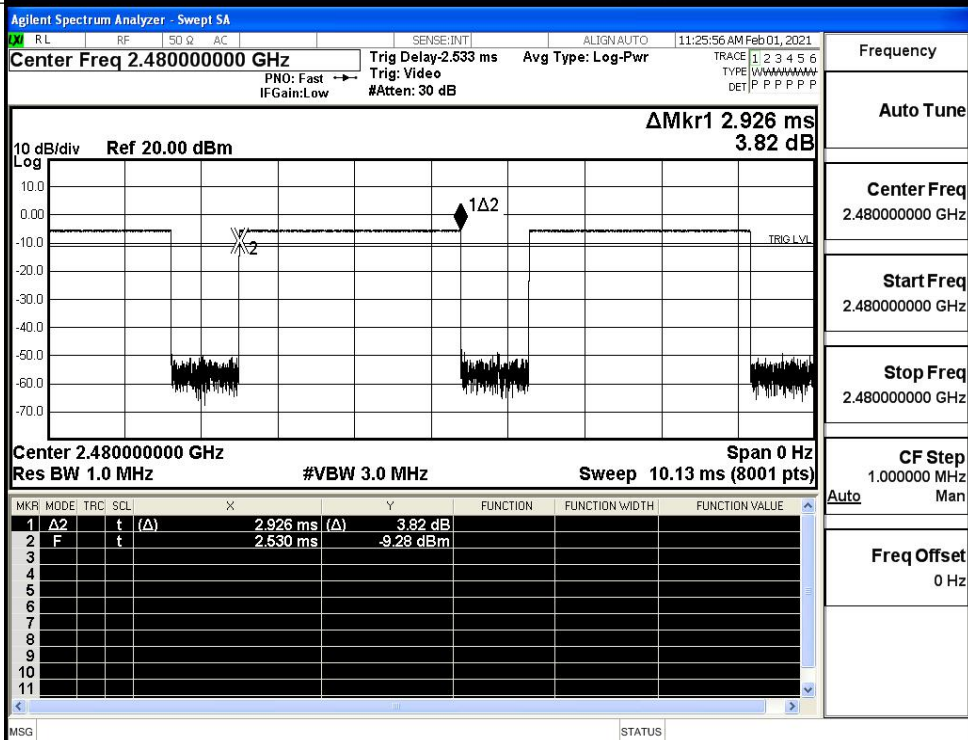
GFSK\_DH5/LCH



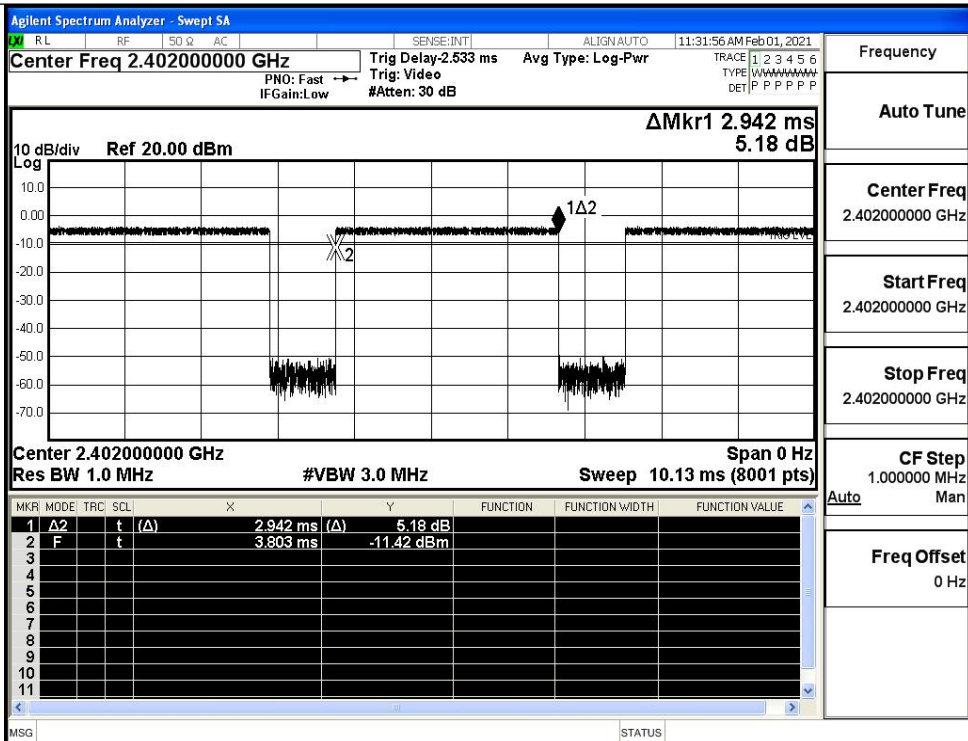
GFSK\_DH5/MCH



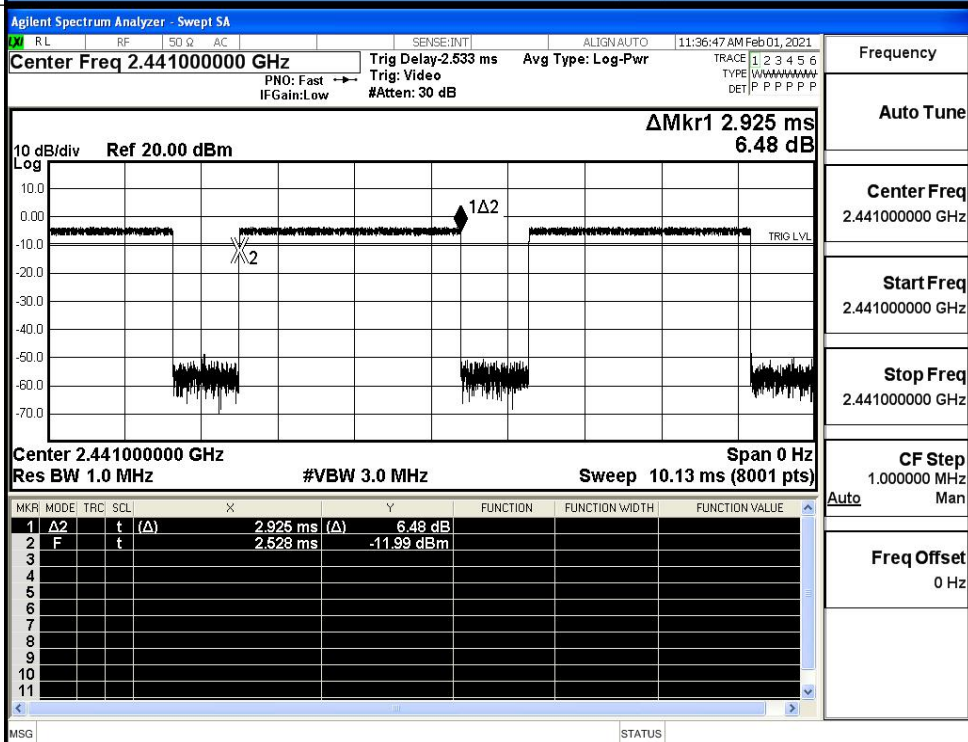
GFSK\_DH5/HCH



$\pi/4$ DQPSK  
\_2DH5/LCH

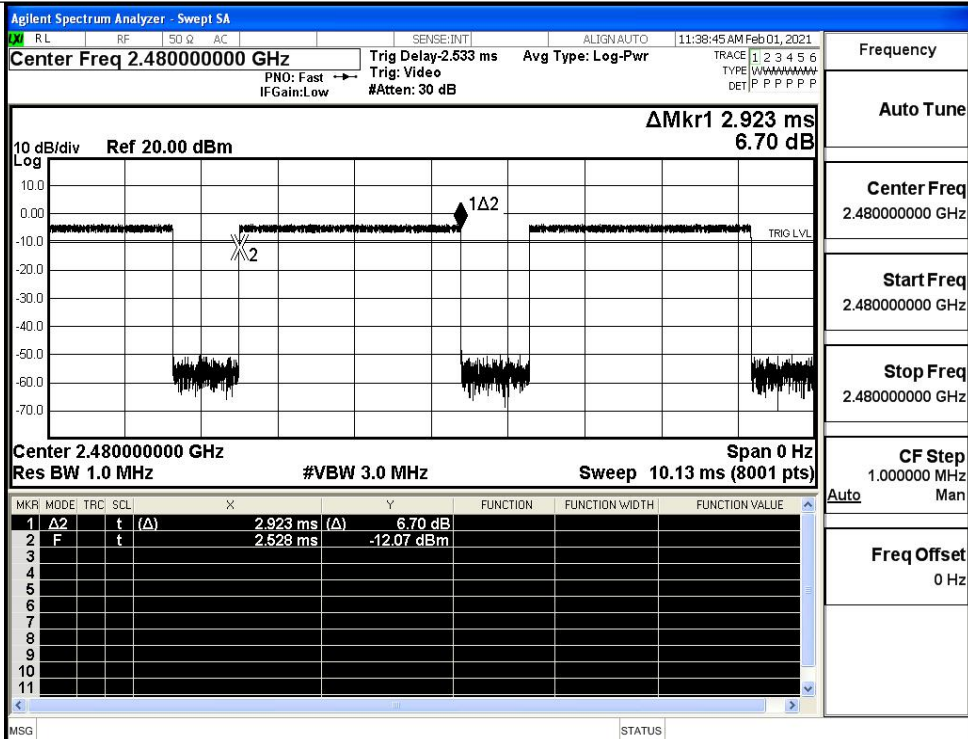


$\pi/4$ DQPSK  
\_2DH5/MCH

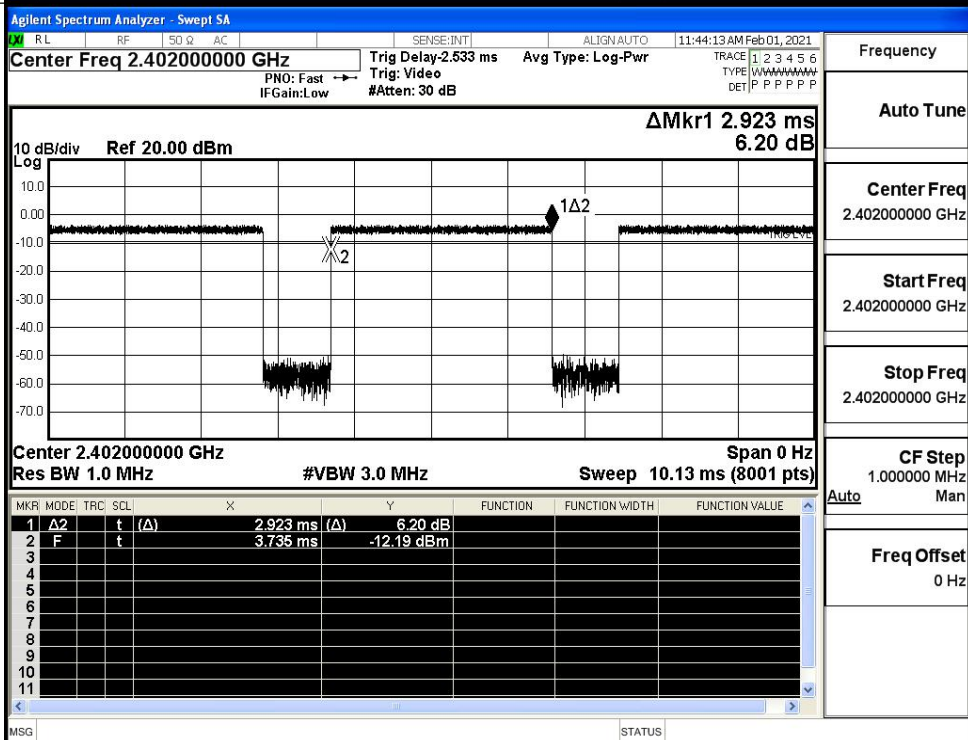




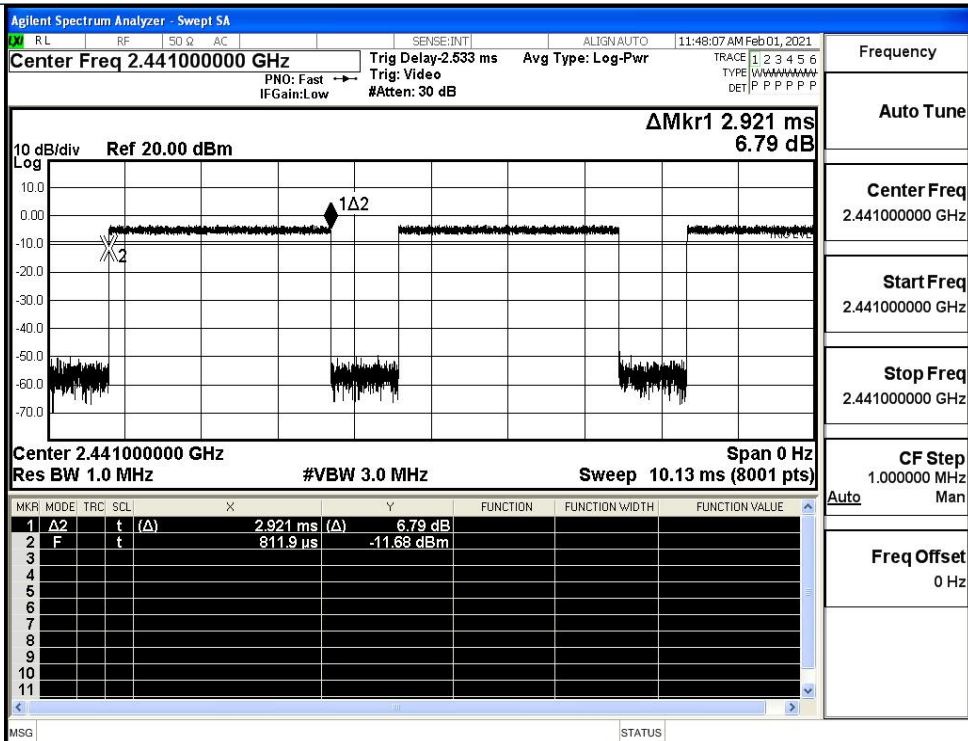
$\pi/4$ DQPSK  
\_2DH5/HCH



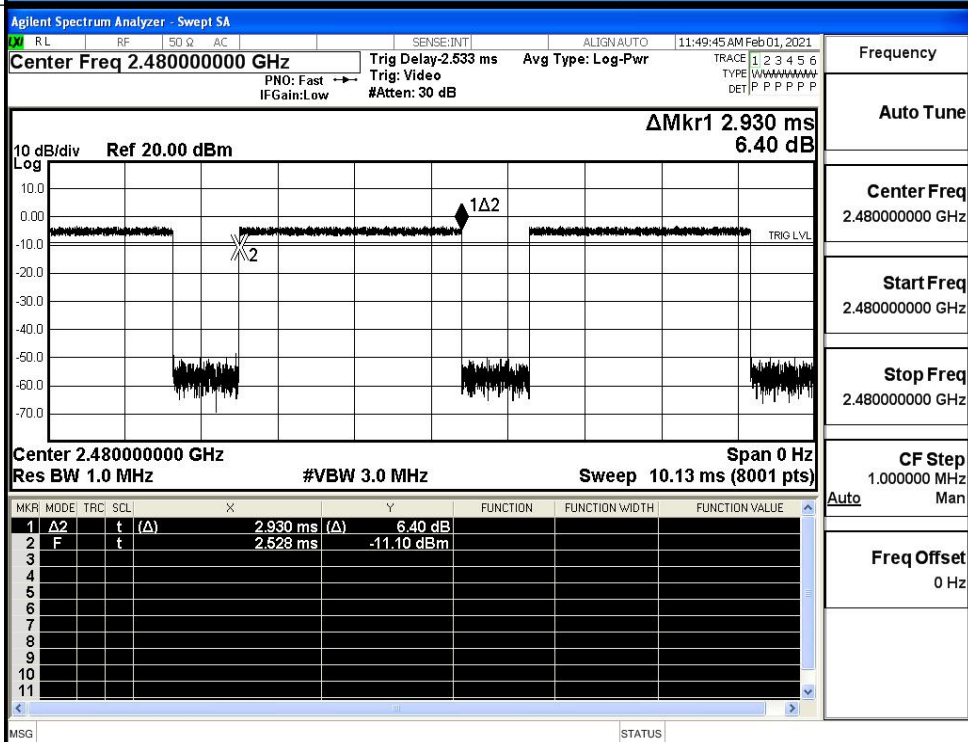
8DPSK \_3DH5/LCH



8DPSK\_3DH5/MCH



8DPSK\_3DH5/HCH

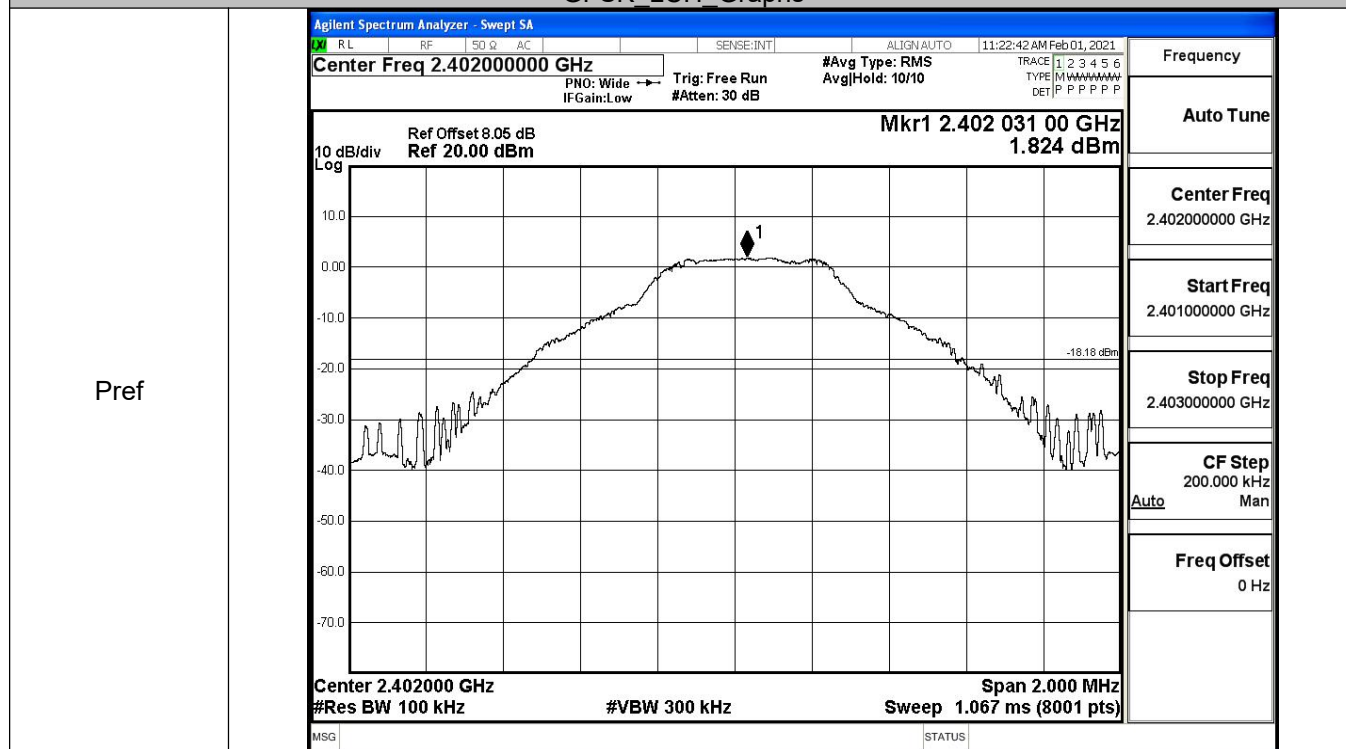




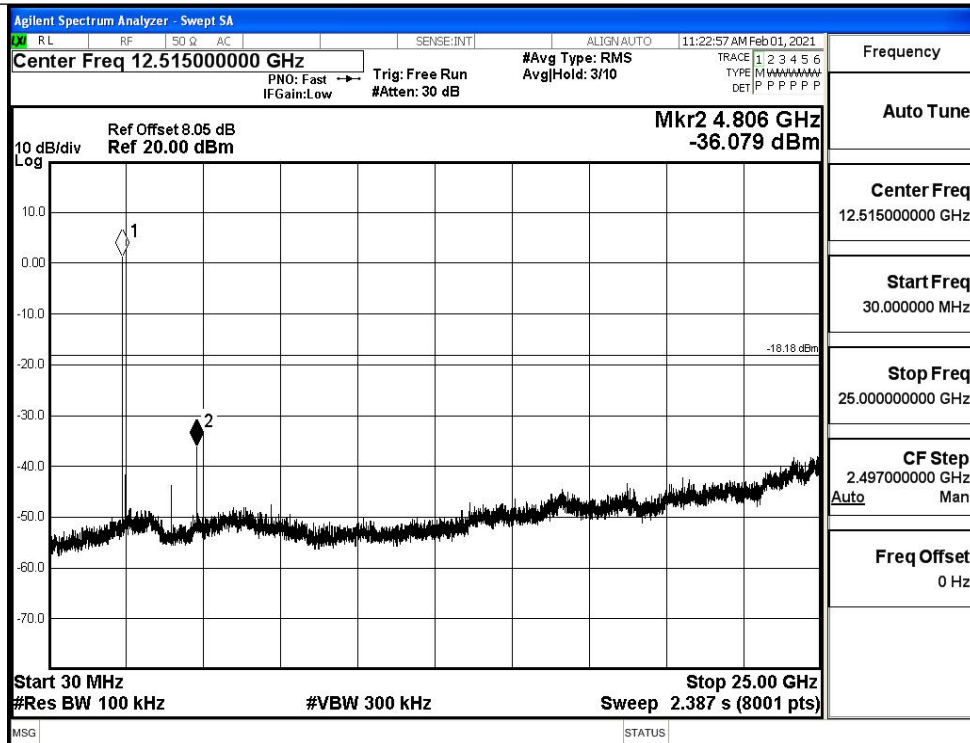
## A.7 RF Conducted Spurious Emissions

| Mode          | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|---------------|---------|------------|------------------|-------------|---------|
| GFSK          | LCH     | 1.824      | -36.079          | -18.176     | PASS    |
|               | MCH     | 2.353      | -34.715          | -17.647     | PASS    |
|               | HCH     | 2.016      | -36.976          | -17.984     | PASS    |
| $\pi/4$ DQPSK | LCH     | 0.762      | -35.532          | -19.238     | PASS    |
|               | MCH     | 0.966      | -35.910          | -19.034     | PASS    |
|               | HCH     | 0.927      | -36.739          | -19.073     | PASS    |
| 8DPSK         | LCH     | 0.633      | -34.017          | -19.367     | PASS    |
|               | MCH     | 0.852      | -36.016          | -19.148     | PASS    |
|               | HCH     | 0.817      | -33.680          | -19.183     | PASS    |

GFSK LCH Graphs

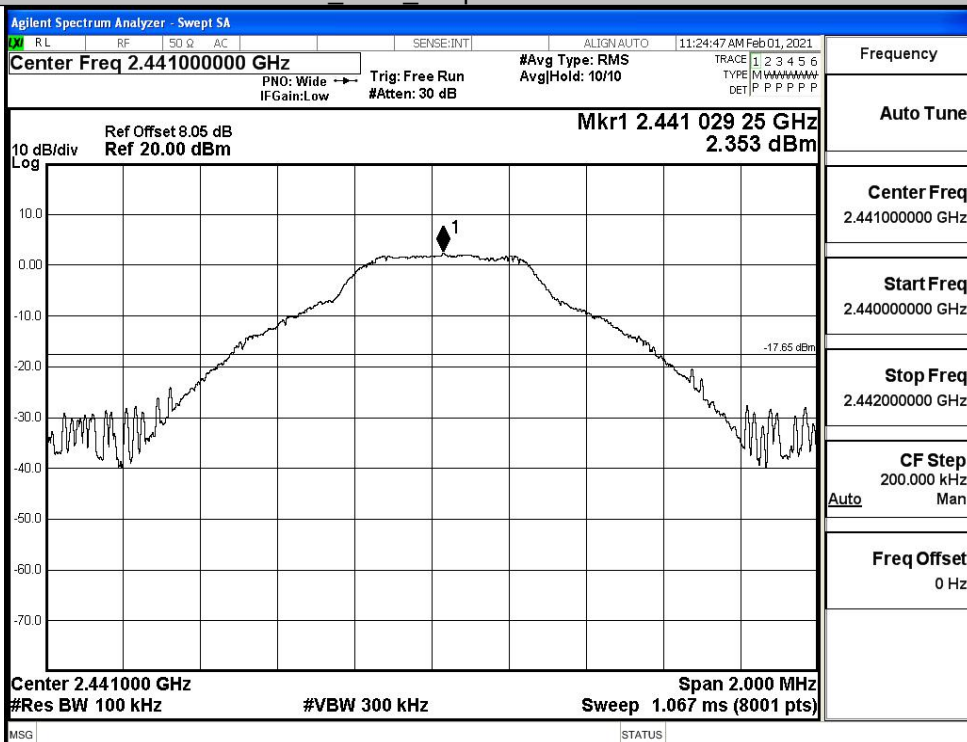


Puw

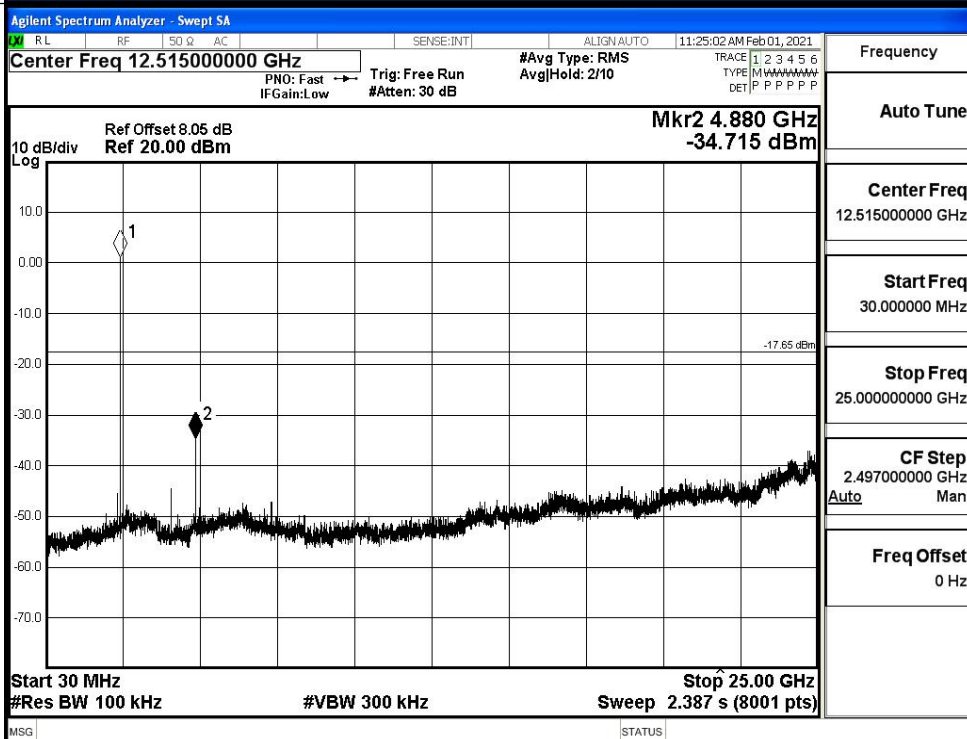


## GFSK\_MCH\_Graphs

Pref

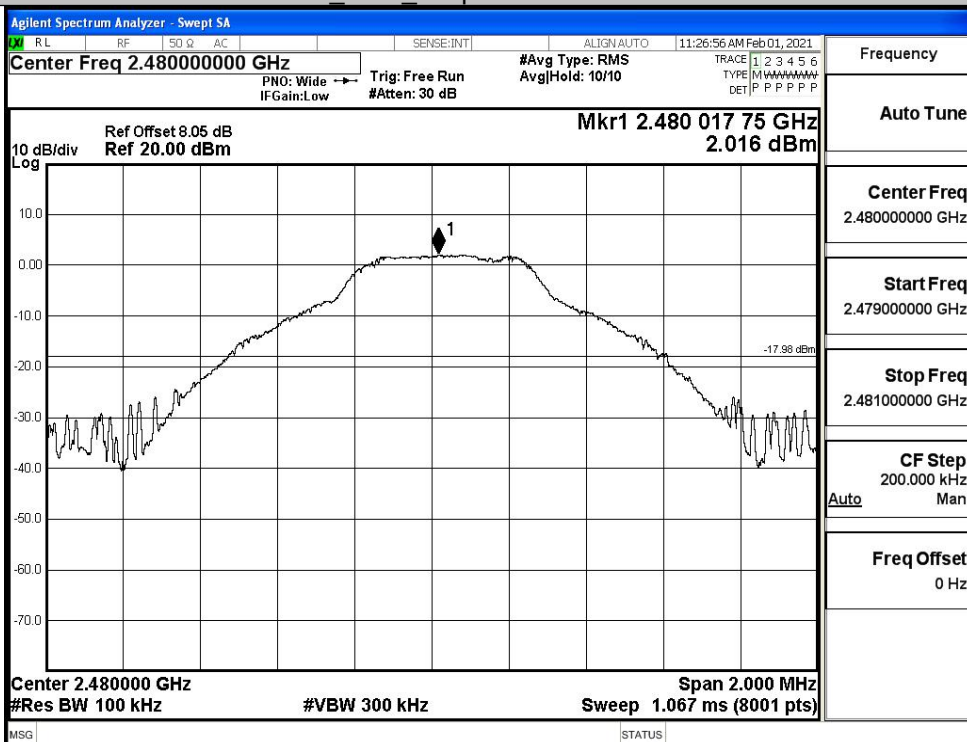


Puw

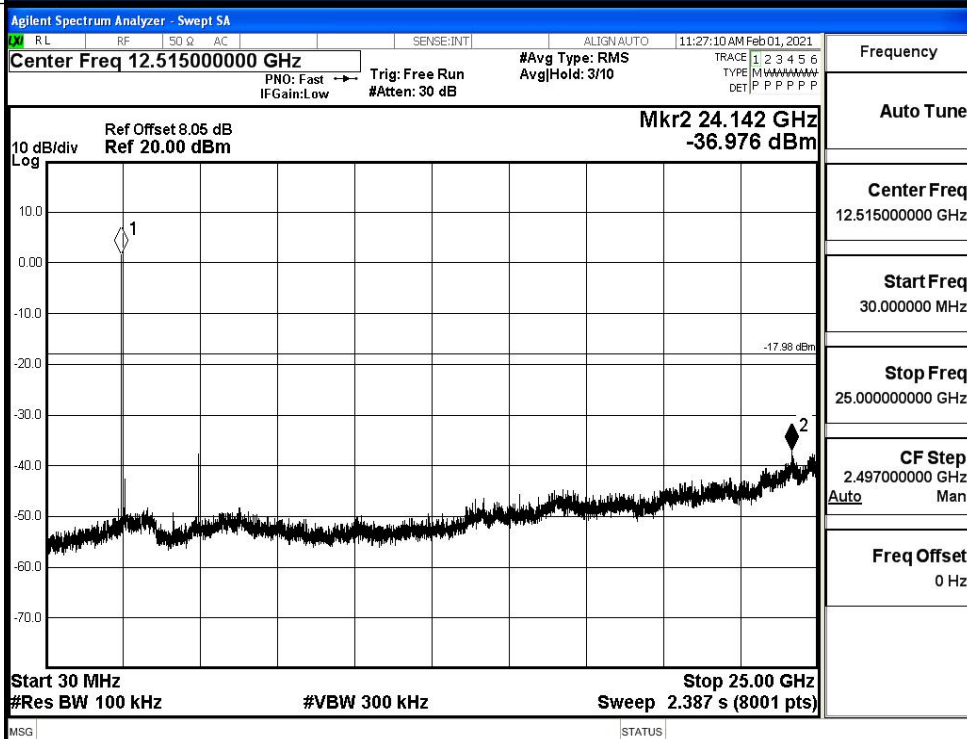


## GFSK\_HCH\_Graphs

Pref

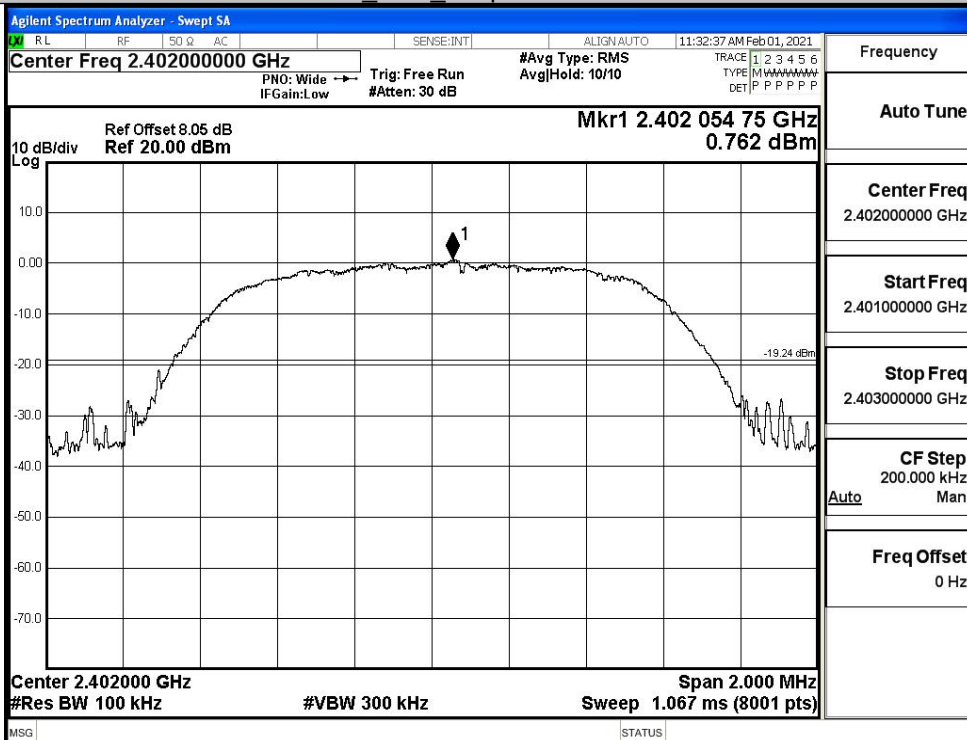


Puw

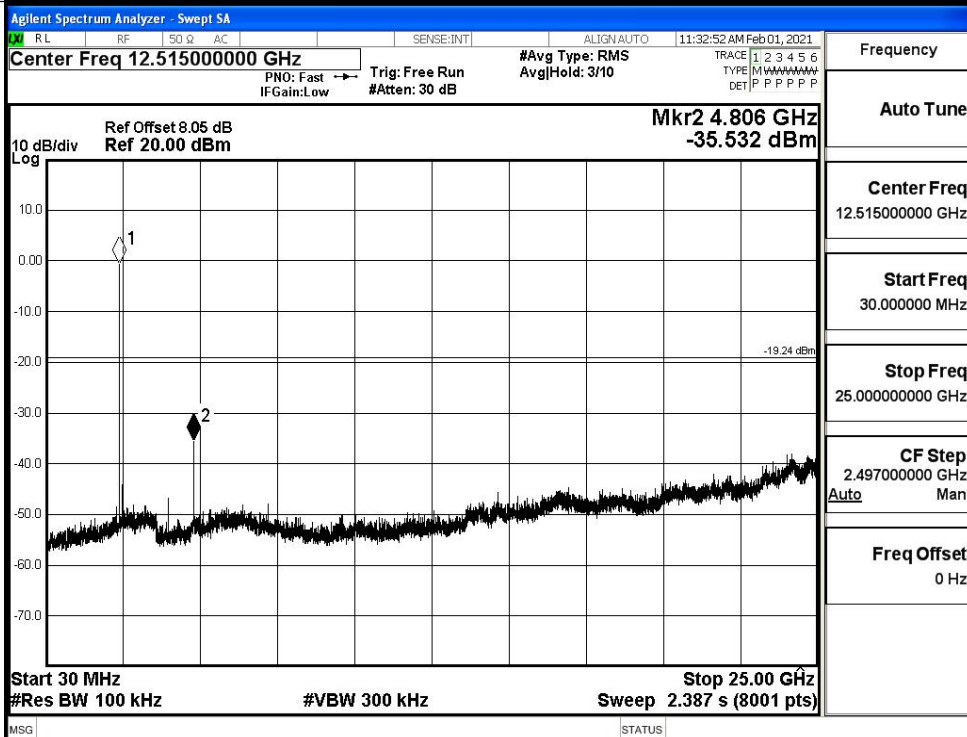


$\pi$ /4DQPSK\_LCH\_Graphs

Pref

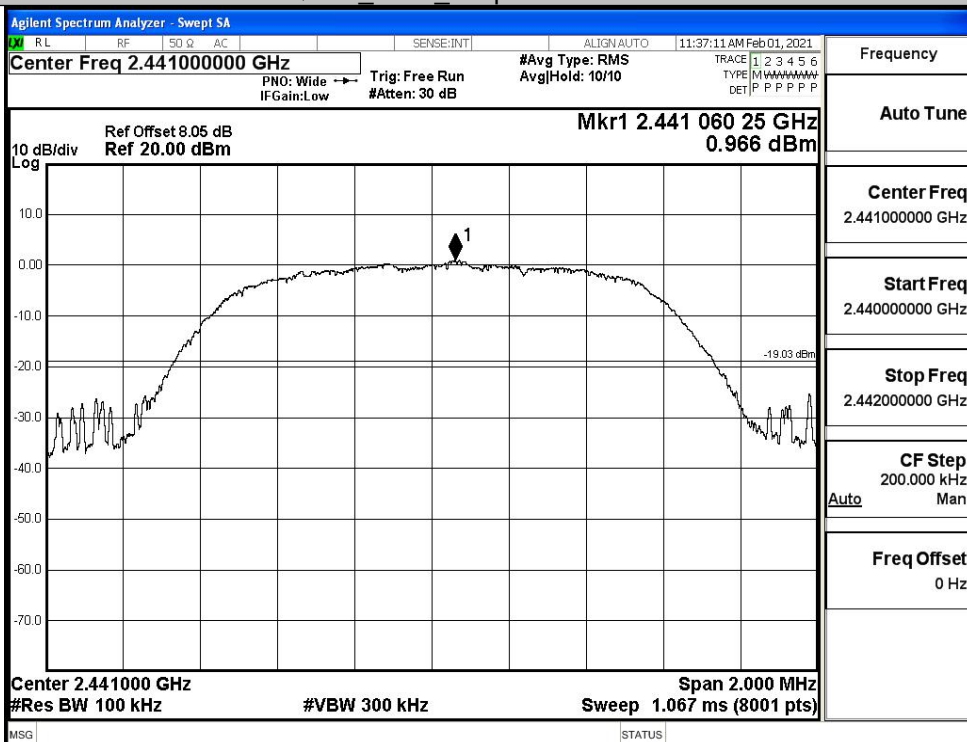


Puw

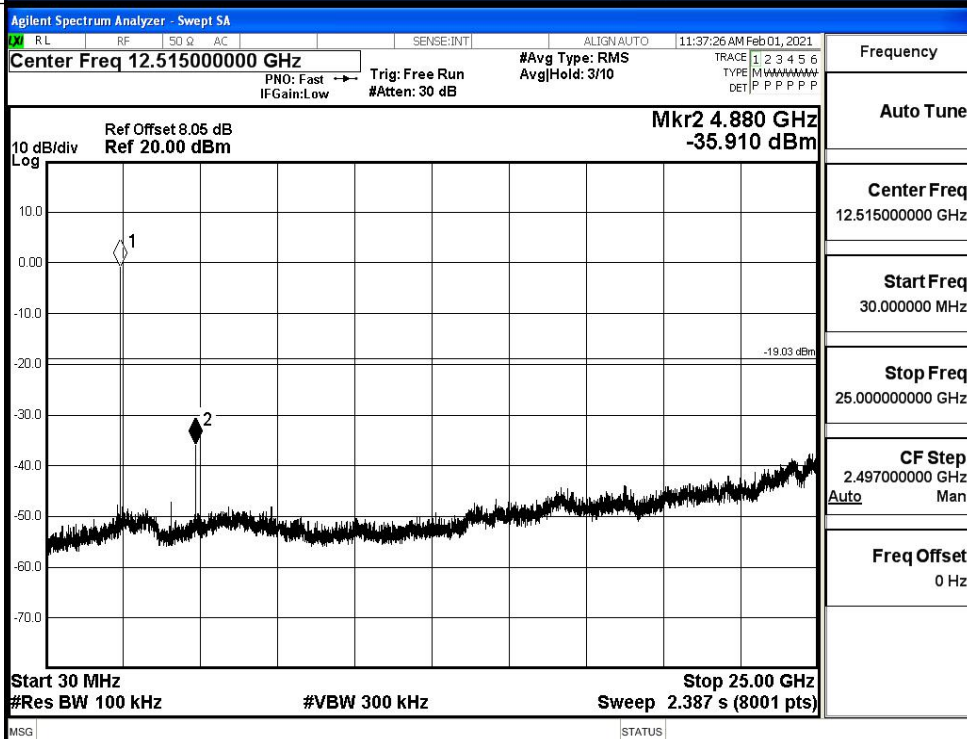


$\pi/4$ DQPSK\_MCH\_Graphs

Pref



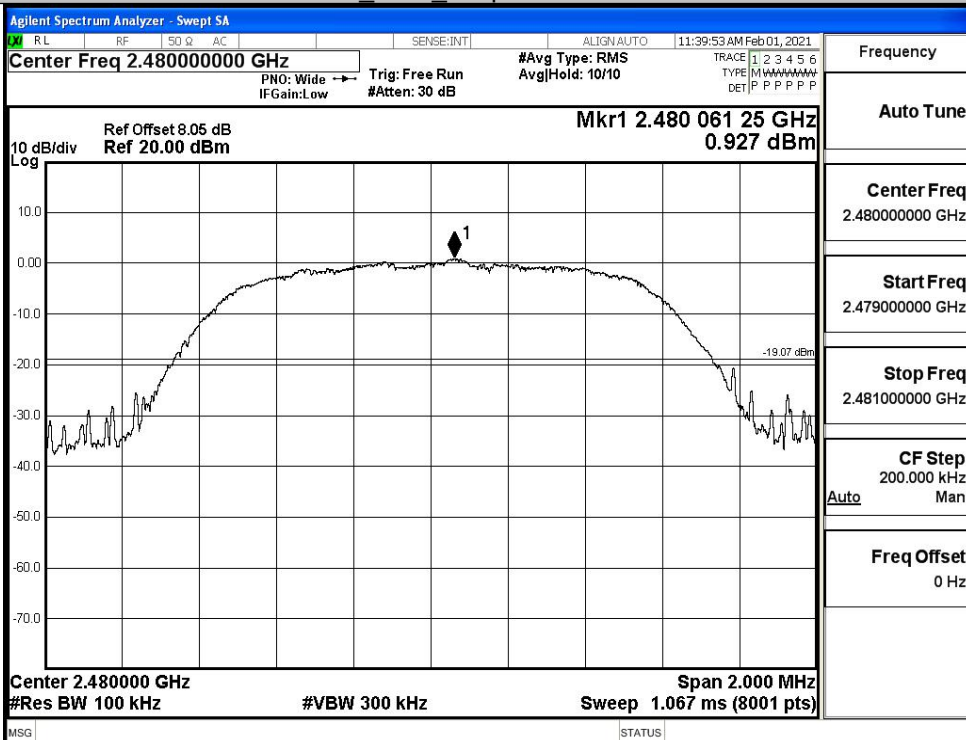
Puw



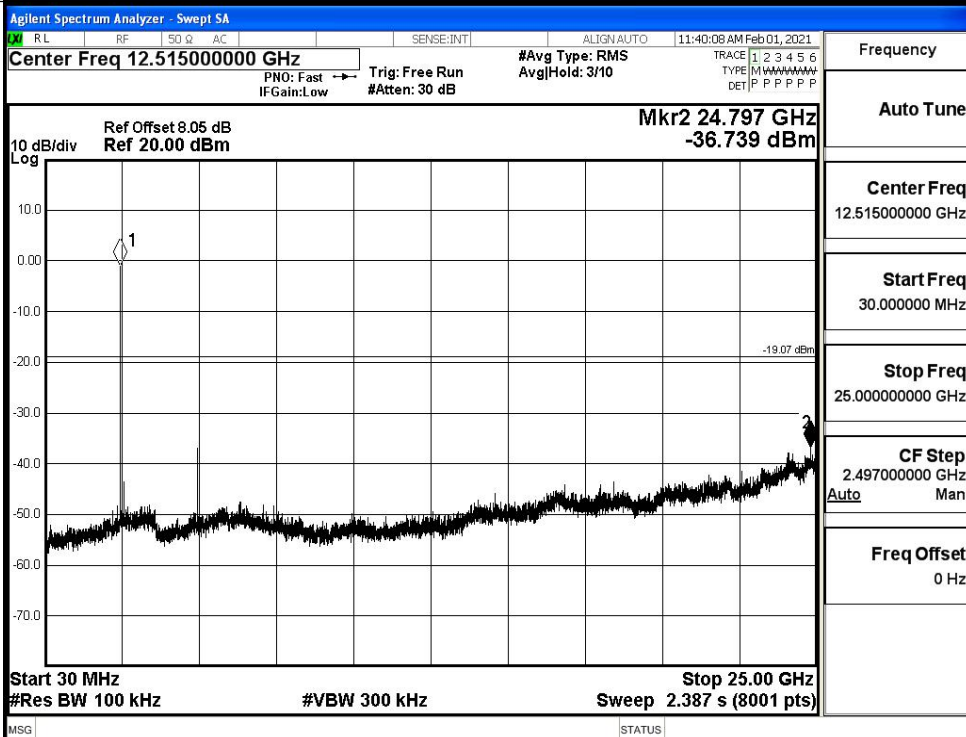


$\pi$ /4DQPSK\_HCH\_Graphs

Pref

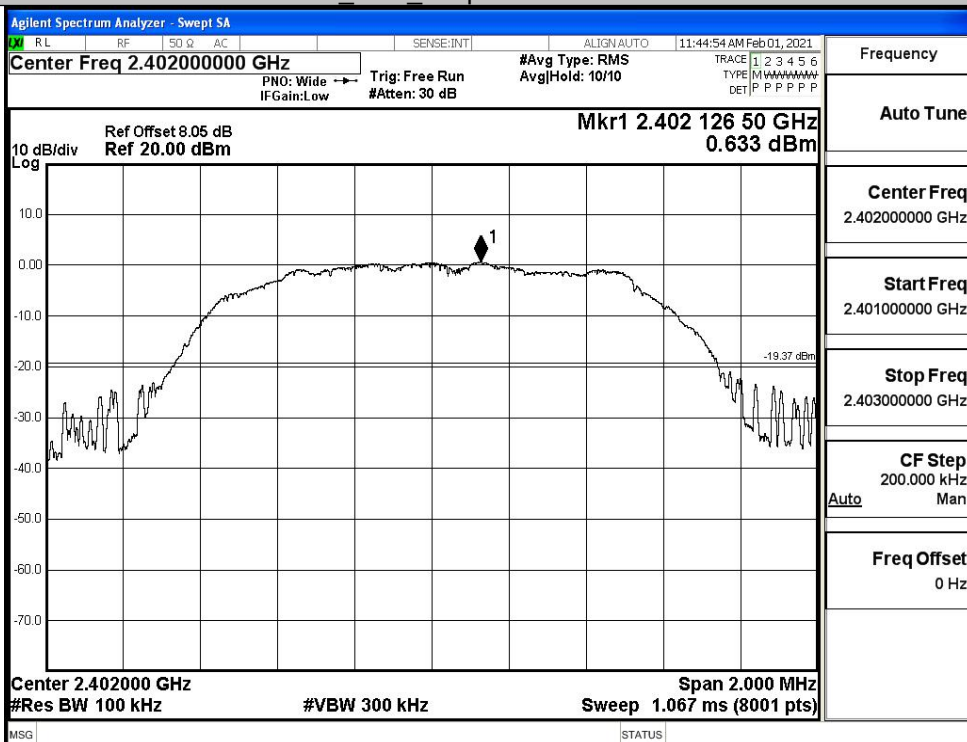


Puw

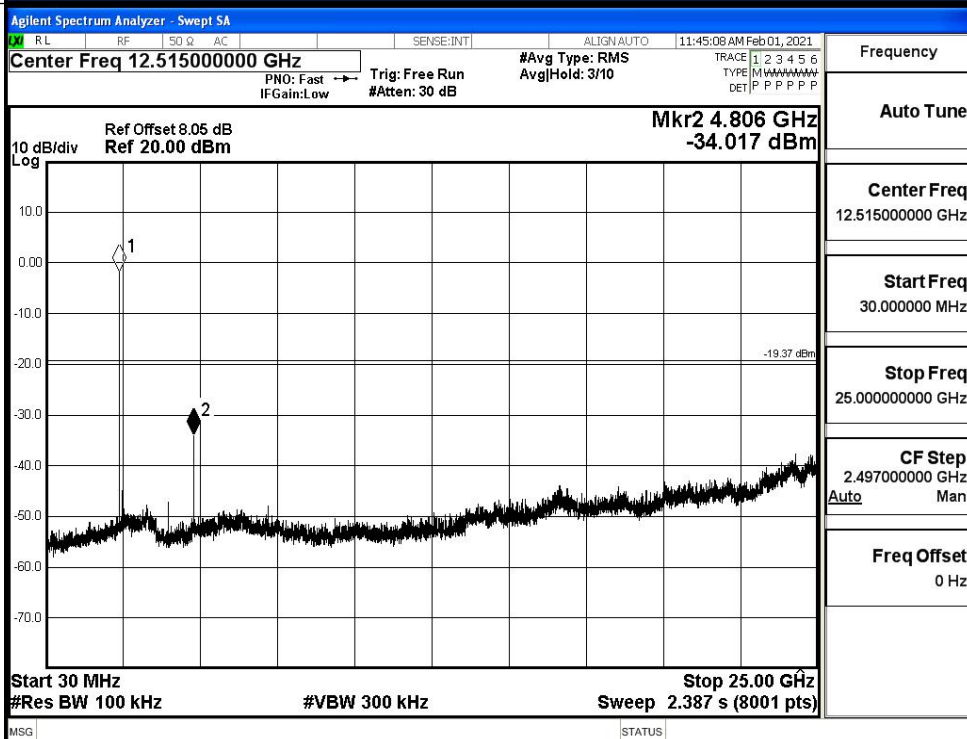


## 8DPSK\_LCH\_Graphs

Pref

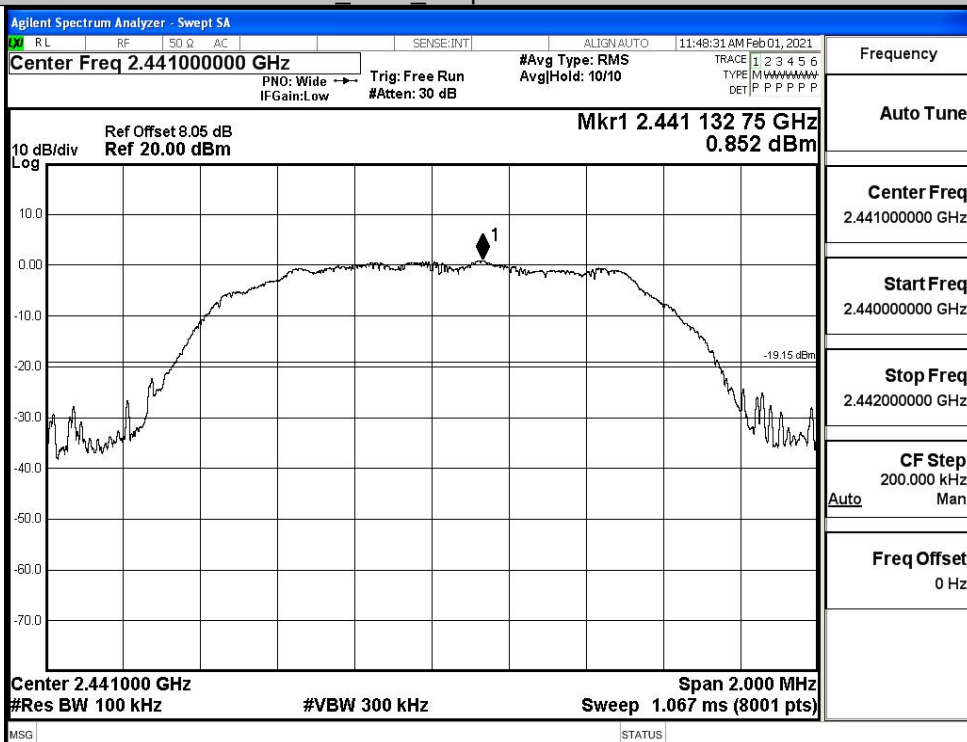


Puw

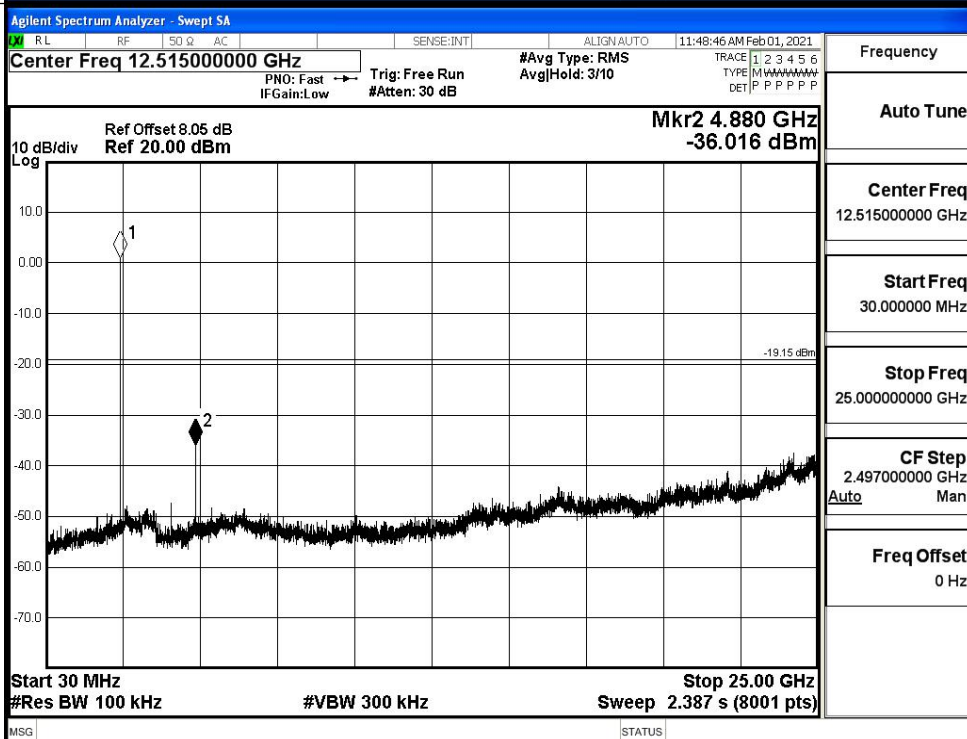


## 8DPSK\_MCH\_Graphs

Pref

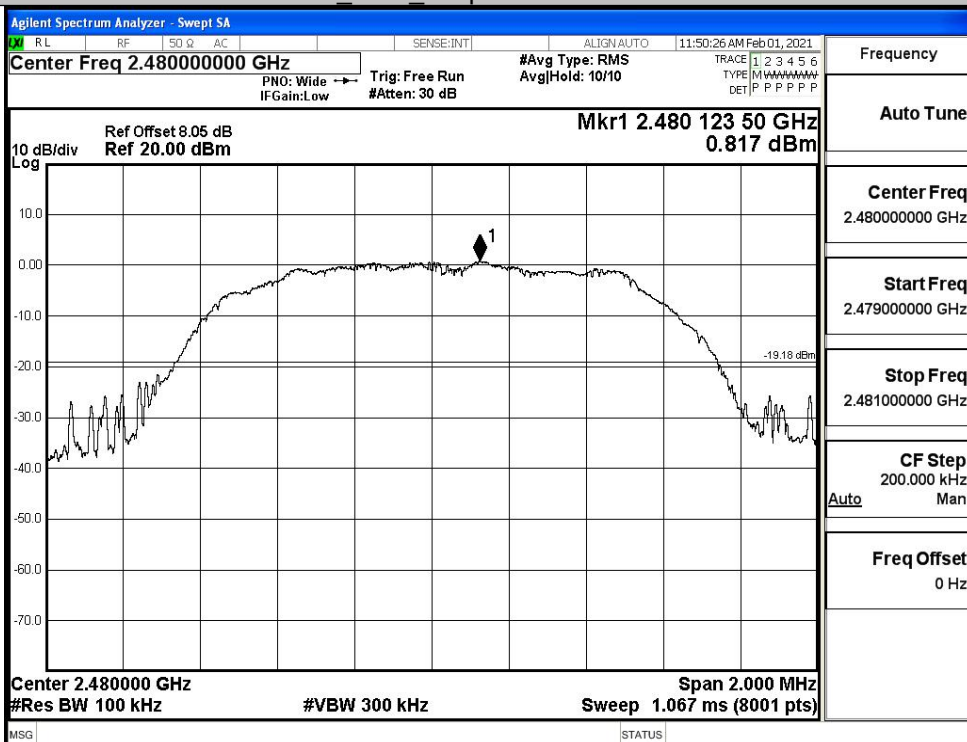


Puw

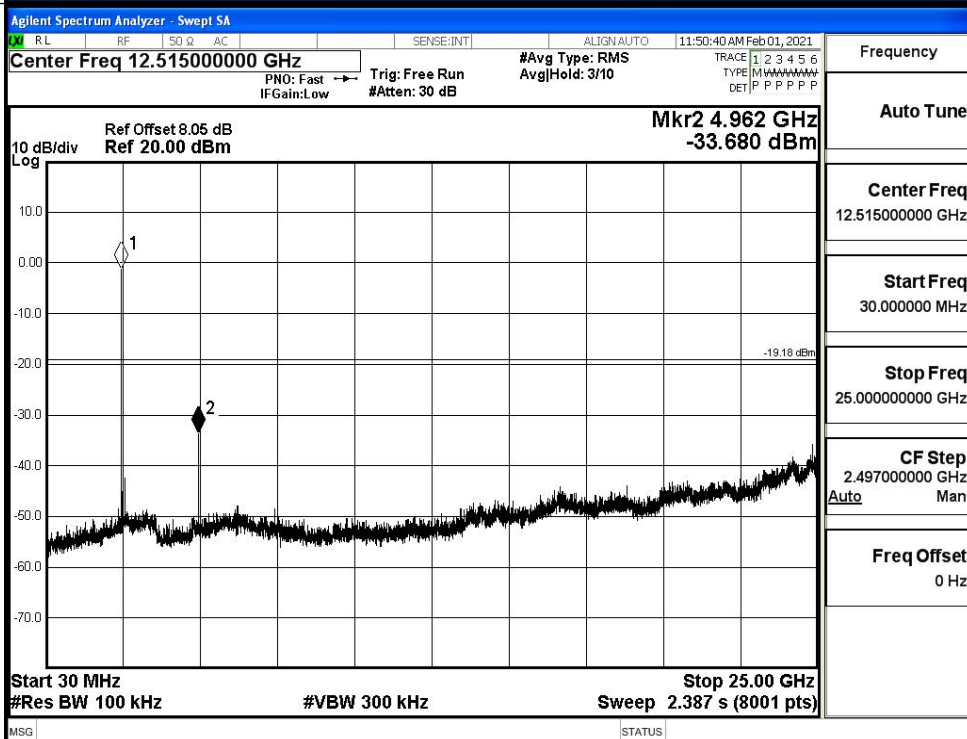


## 8DPSK\_HCH\_Graphs

Pref



Puw

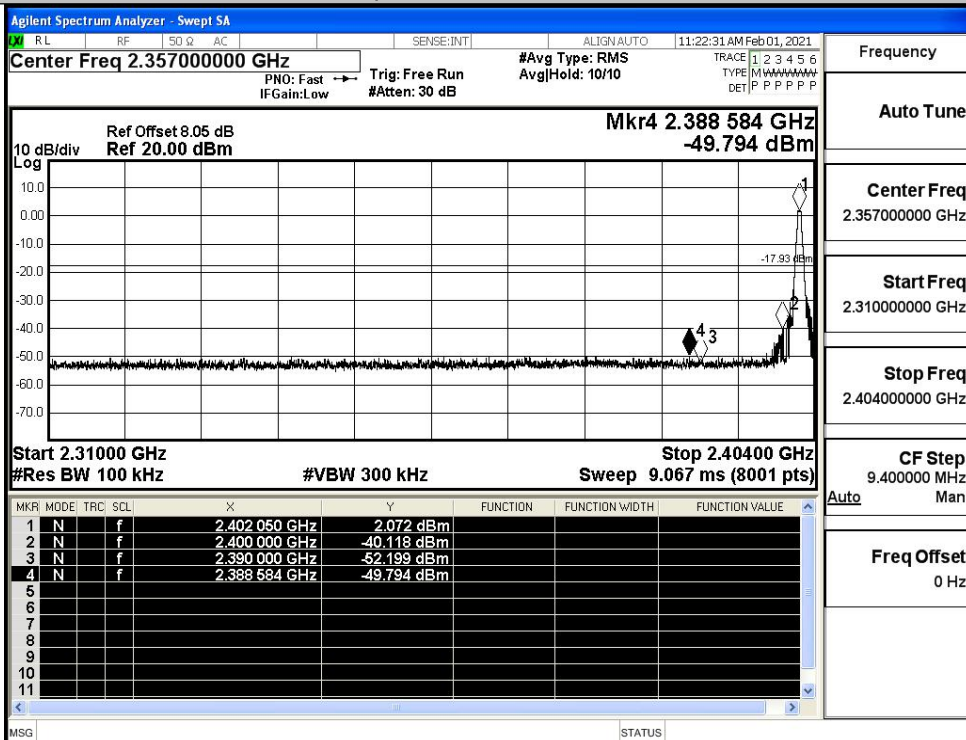


## A.8 Band-edge for RF Conducted Emissions

| Mode          | Channel | Carrier Frequency [MHz] | Carrier Power [dBm] | Frequency Hopping | Max Spurious Level [dBm] | Limit [dBm] | Verdict |
|---------------|---------|-------------------------|---------------------|-------------------|--------------------------|-------------|---------|
| GFSK          | LCH     | 2402                    | 2.072               | Off               | -49.794                  | -17.93      | PASS    |
|               |         |                         | 2.493               | On                | -44.870                  | -17.51      | PASS    |
|               | HCH     | 2480                    | 2.478               | Off               | -46.862                  | -17.52      | PASS    |
|               |         |                         | 2.835               | On                | -39.469                  | -17.17      | PASS    |
| $\pi/4$ DQPSK | LCH     | 2402                    | 0.686               | Off               | -49.422                  | -19.31      | PASS    |
|               |         |                         | 1.232               | On                | -46.178                  | -18.77      | PASS    |
|               | HCH     | 2480                    | 1.186               | Off               | -45.346                  | -18.81      | PASS    |
|               |         |                         | 1.399               | On                | -41.766                  | -18.6       | PASS    |
| 8DPSK         | LCH     | 2402                    | 0.982               | Off               | -49.536                  | -19.02      | PASS    |
|               |         |                         | 1.406               | On                | -42.290                  | -18.59      | PASS    |
|               | HCH     | 2480                    | 1.233               | Off               | -46.228                  | -18.77      | PASS    |
|               |         |                         | 1.460               | On                | -41.764                  | -18.54      | PASS    |

## Test Graphs

GFSK/LCH/No Hop



Frequency

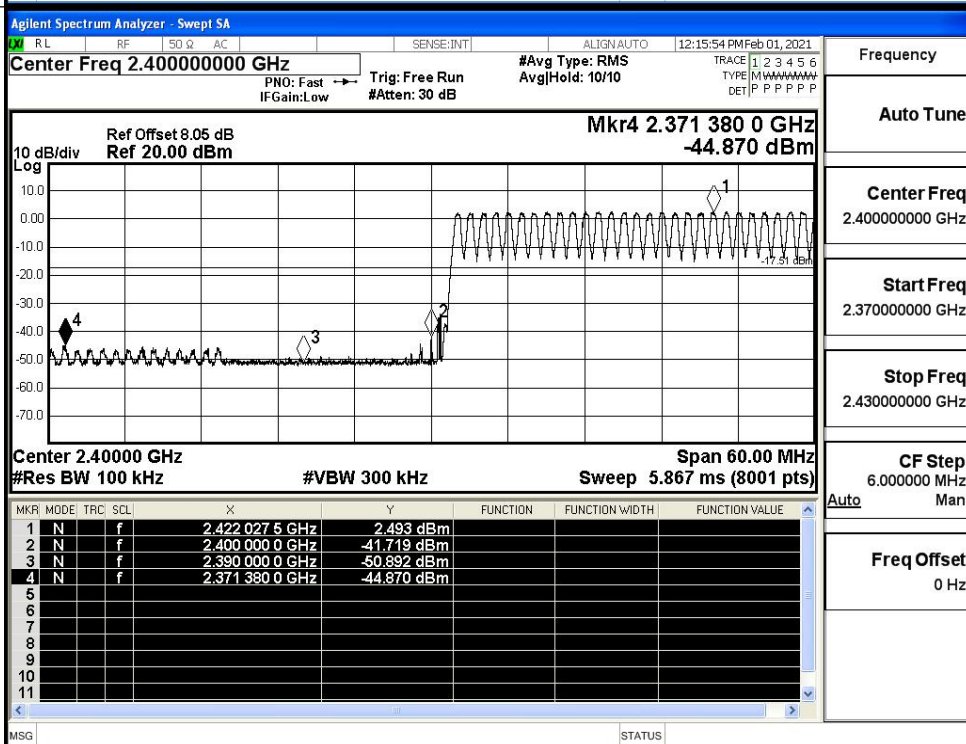
Auto Tune

Center Freq  
2.357000000 GHzStart Freq  
2.310000000 GHzStop Freq  
2.404000000 GHzCF Step  
9.400000 MHz

Auto

Freq Offset  
0 Hz

GFSK/LCH/Hop



Frequency

Auto Tune

Center Freq  
2.400000000 GHzStart Freq  
2.370000000 GHzStop Freq  
2.430000000 GHzCF Step  
6.000000 MHz

Auto

Freq Offset  
0 Hz