



Keyway Testing Technology (Guangdong) Co., Ltd  
Room 2102,Building 6,Dongyi Intelligent Equipment New Energy Vehicle  
Park,N.30 of Tangxia District,Dongshen Road,Tangxia Town,Dongguan  
City,Guangdong,China

## RF Conducted Test

|                          |                     |
|--------------------------|---------------------|
| <b>E.U.T:</b>            | Turntable Player    |
| <b>Model Number:</b>     | HP-H005             |
| <b>Sample ID</b>         | 33000256424         |
| <b>Sample(s) Status:</b> | Engineer sample     |
| <b>Antenna Gain:</b>     | 2.07dBi             |
| <b>Date of Receipt:</b>  | 2025-11-06          |
| <b>Date of Test:</b>     | 2025-11-18          |
| <b>FCC ID:</b>           | 2BFHV-HP-H005       |
| <b>IC ID:</b>            | /                   |
| <b>Telec/Mic:</b>        | /                   |
| <b>Report No.</b>        | 2025111816783343-00 |
| <b>Tester</b>            | ZHU                 |



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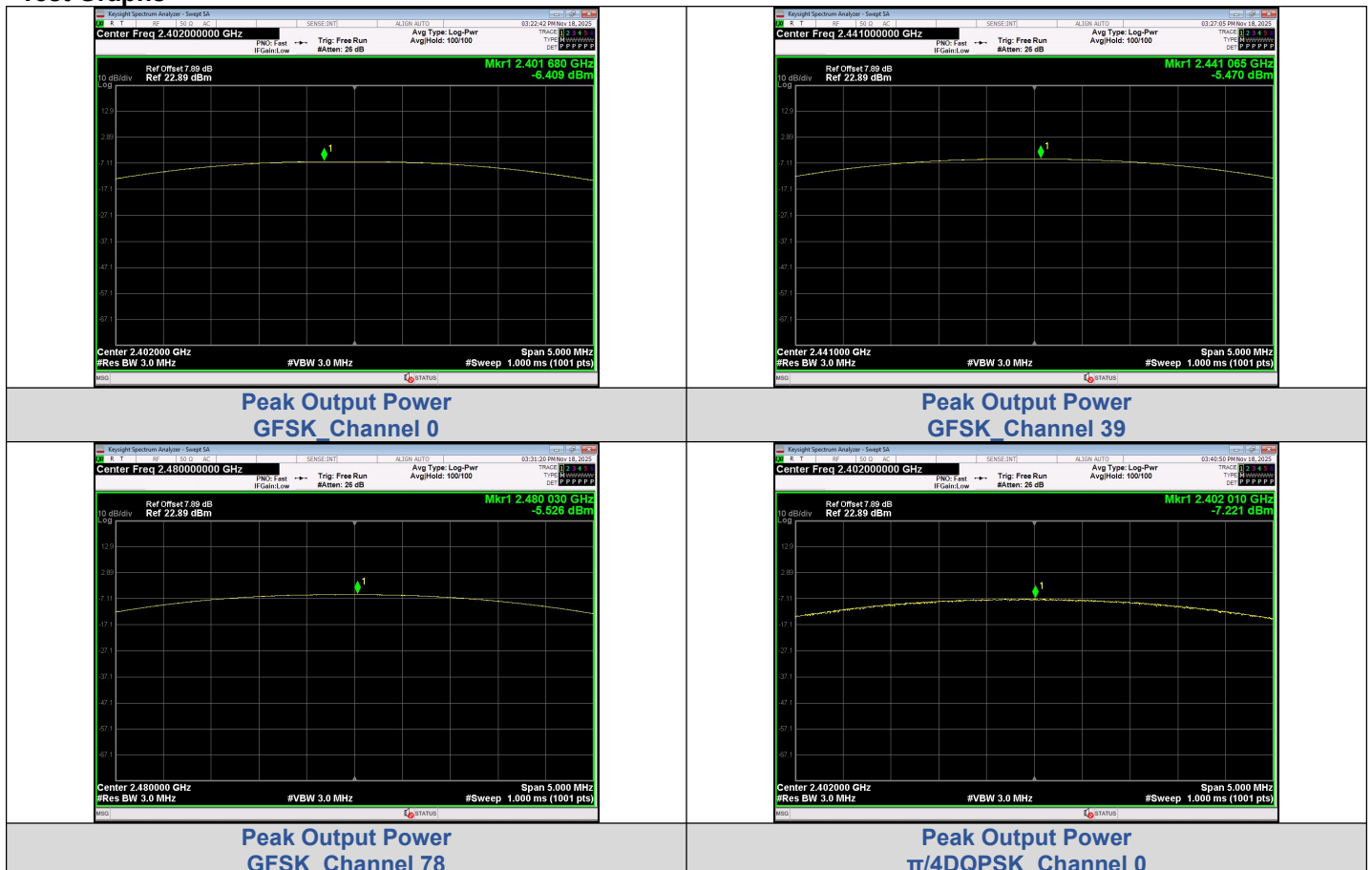
## A.1 CONDUCTED OUTPUT POWER

### Test Result

| Modulation    | Packet Type | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Max. Avg. Power (dBm) | Limit (dBm) | Result |
|---------------|-------------|---------|-------------------------|------------------------|-----------------------|-------------|--------|
| GFSK          | DH1         | 0       | -6.41                   | 0.23                   | None                  | ≤30         | PASS   |
|               |             | 39      | -5.47                   | 0.28                   | None                  |             | PASS   |
|               |             | 78      | -5.53                   | 0.28                   | None                  |             | PASS   |
| $\pi/4$ DQPSK | 2-DH1       | 0       | -7.22                   | 0.19                   | None                  |             | PASS   |
|               |             | 39      | -6.37                   | 0.23                   | None                  |             | PASS   |
|               |             | 78      | -6.44                   | 0.23                   | None                  |             | PASS   |
| 8DPSK         | 3-DH1       | 0       | -6.69                   | 0.21                   | None                  |             | PASS   |
|               |             | 39      | -5.77                   | 0.26                   | None                  |             | PASS   |
|               |             | 78      | -5.84                   | 0.26                   | None                  |             | PASS   |

| Modulation    | Packet Type | Channel | Peak Output Power (dBm) | Peak Power Limit (dBm) | ISED EIRP (dBm) | ISED EIRP Limit (dBm) | Max. Avg. Power (dBm) | Result |
|---------------|-------------|---------|-------------------------|------------------------|-----------------|-----------------------|-----------------------|--------|
| GFSK          | DH1         | 0       | -6.41                   | ≤30                    | -4.339          | ≤36.02                | None                  | PASS   |
|               |             | 39      | -5.47                   | ≤30                    | -3.400          | ≤36.02                | None                  | PASS   |
|               |             | 78      | -5.53                   | ≤30                    | -3.456          | ≤36.02                | None                  | PASS   |
| $\pi/4$ DQPSK | 2-DH1       | 0       | -7.22                   | ≤30                    | -5.151          | ≤36.02                | None                  | PASS   |
|               |             | 39      | -6.37                   | ≤30                    | -4.303          | ≤36.02                | None                  | PASS   |
|               |             | 78      | -6.44                   | ≤30                    | -4.371          | ≤36.02                | None                  | PASS   |
| 8DPSK         | 3-DH1       | 0       | -6.69                   | ≤30                    | -4.619          | ≤36.02                | None                  | PASS   |
|               |             | 39      | -5.77                   | ≤30                    | -3.699          | ≤36.02                | None                  | PASS   |
|               |             | 78      | -5.84                   | ≤30                    | -3.775          | ≤36.02                | None                  | PASS   |

### Test Graphs





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



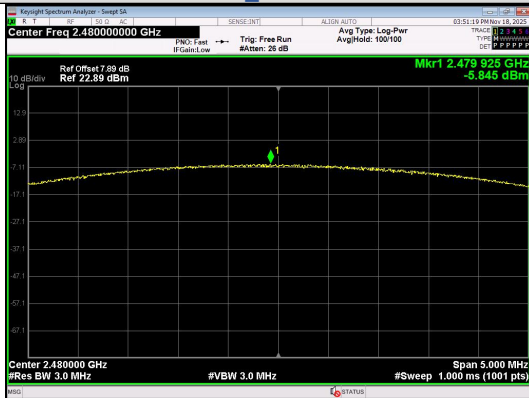
Peak Output Power  
 $\pi/4$ DQPSK\_Channel 78



Peak Output Power  
8DPSK\_Channel 0



Peak Output Power  
8DPSK\_Channel 78



Peak Output Power  
8DPSK\_Channel 78



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## A.2 99% BANDWIDTH

### Test Result

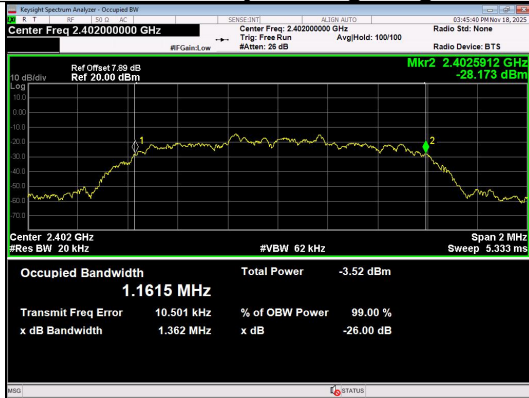
| Modulation    | Channel | Center Frequency (MHz) | 99% BW (MHz) |
|---------------|---------|------------------------|--------------|
| GFSK          | 0       | 2402                   | 0.85663      |
|               | 39      | 2441                   | 0.85407      |
|               | 78      | 2480                   | 0.83061      |
| $\pi/4$ DQPSK | 0       | 2402                   | 1.1686       |
|               | 39      | 2441                   | 1.1709       |
|               | 78      | 2480                   | 1.1731       |
| 8DPSK         | 0       | 2402                   | 1.1615       |
|               | 39      | 2441                   | 1.1667       |
|               | 78      | 2480                   | 1.1625       |

### Test Graphs

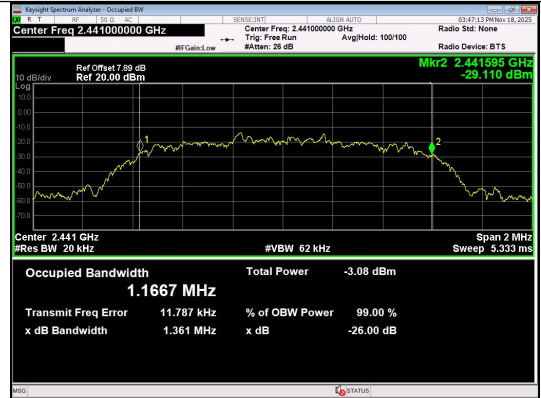




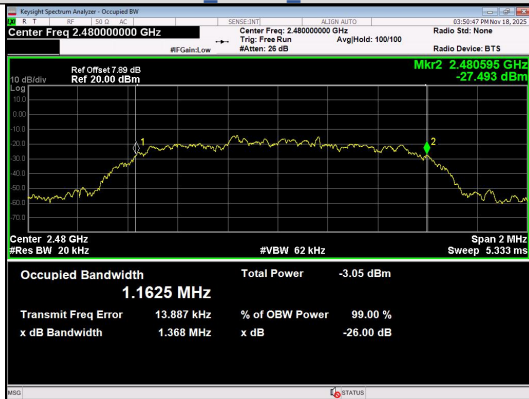
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8DPSK\_3-DH1\_Channel 0



8DPSK\_3-DH1\_Channel 39



8DPSK\_3-DH1\_Channel 78



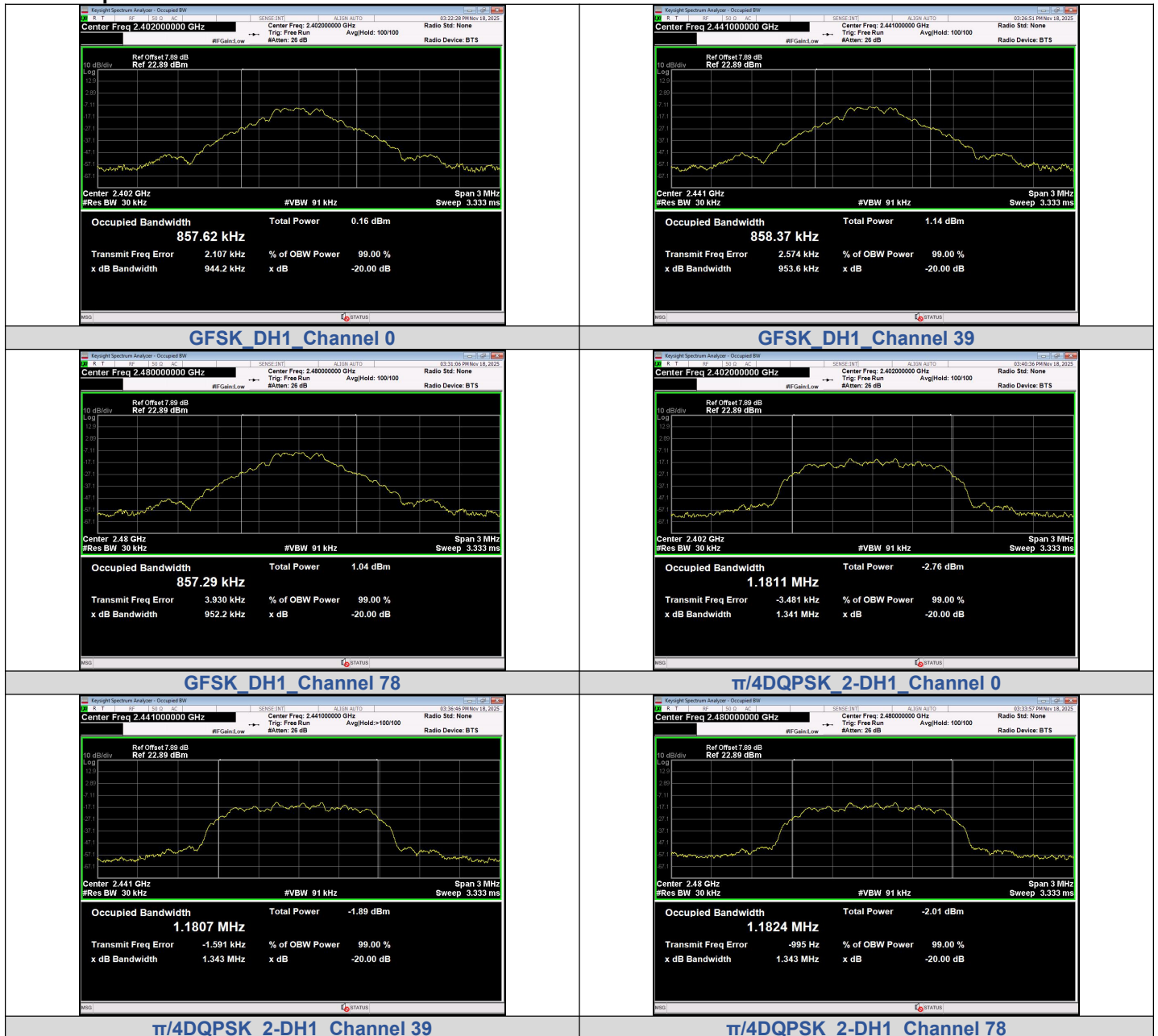
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## A.3 20DB BANDWIDTH

### Test Result

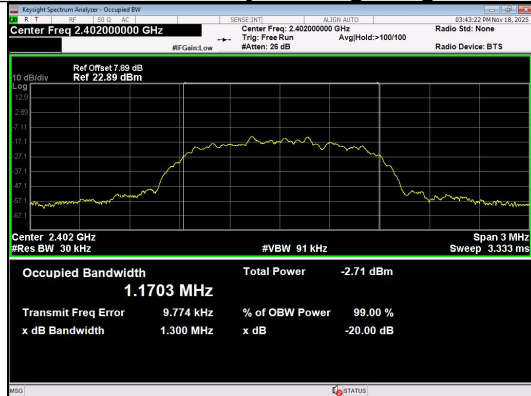
| Modulation    | Channel | Center Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------------|---------|------------------------|-----------------------|
| GFSK          | 0       | 2402 MHz               | 0.9442                |
|               | 39      | 2441 MHz               | 0.9536                |
|               | 78      | 2480 MHz               | 0.9522                |
| $\pi$ /4DQPSK | 0       | 2402 MHz               | 1.341                 |
|               | 39      | 2441 MHz               | 1.343                 |
|               | 78      | 2480 MHz               | 1.343                 |
| 8DPSK         | 0       | 2402 MHz               | 1.300                 |
|               | 39      | 2441 MHz               | 1.306                 |
|               | 78      | 2480 MHz               | 1.307                 |

### Test Graphs

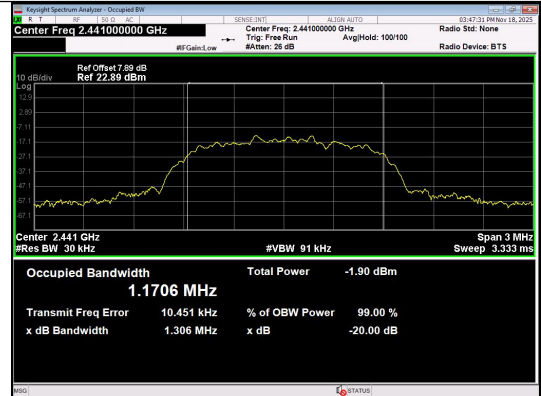




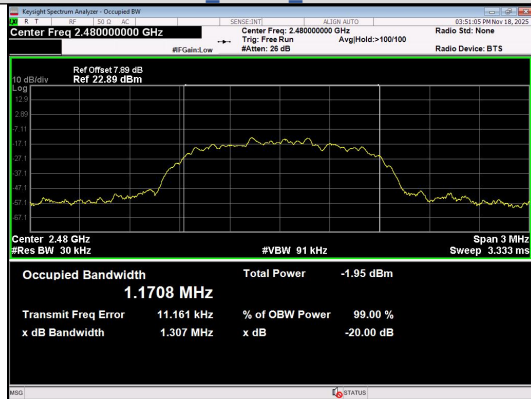
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8DPSK\_3-DH1\_Channel 0



8DPSK\_3-DH1\_Channel 39



8DPSK\_3-DH1\_Channel 78



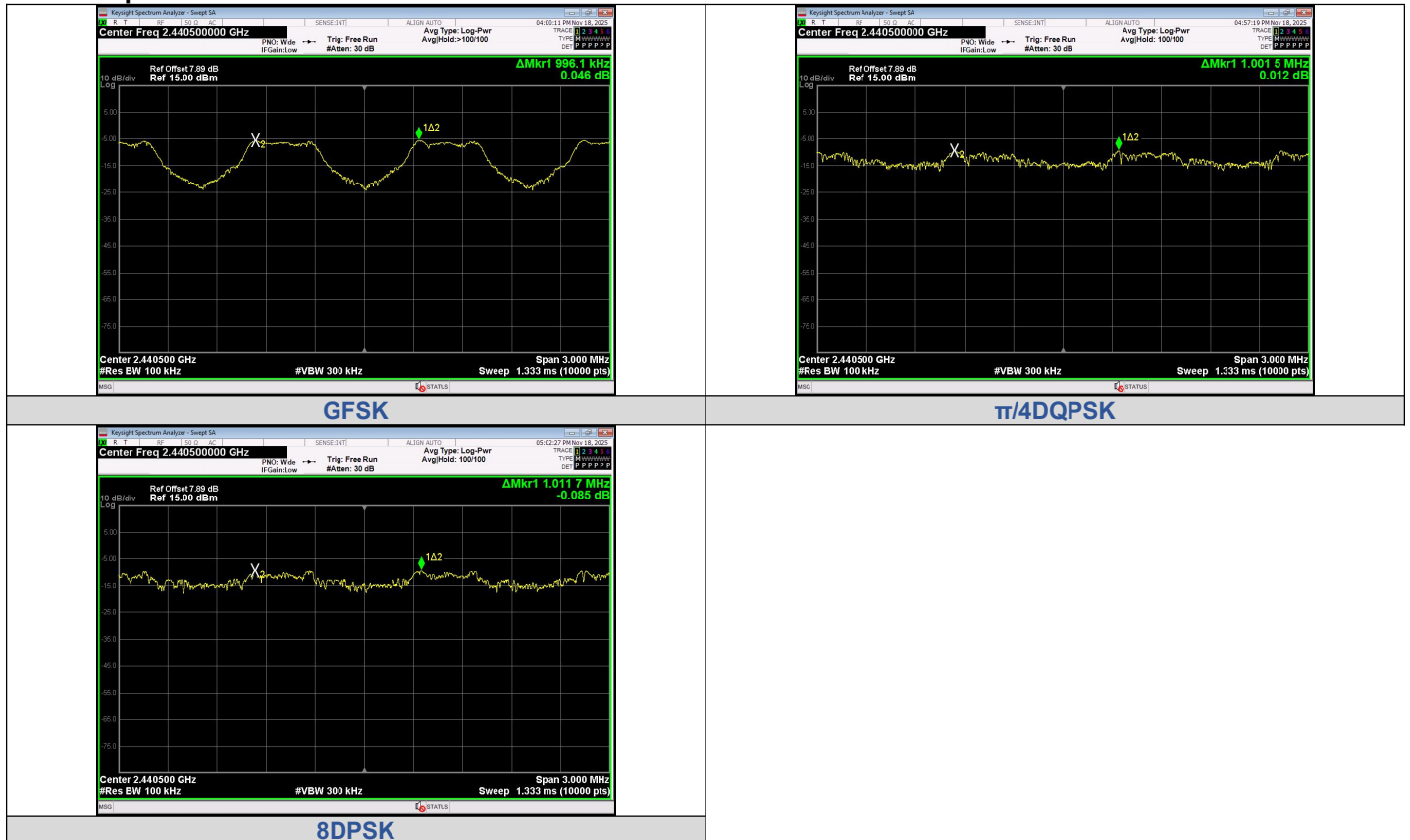
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## A.4 CARRIER FREQUENCIES SEPARATION

### Test Result

| Modulation    | Packet | Left Center frequency (MHz) | Right Center frequency (MHz) | Hopping Frequency Separation (MHz) | Limit (MHz) | Result |
|---------------|--------|-----------------------------|------------------------------|------------------------------------|-------------|--------|
| GFSK          | DH1    | 2439.8374                   | 2440.8335                    | 0.9961                             | 0.954       | PASS   |
| $\pi/4$ DQPSK | 2-DH1  | 2439.8365                   | 2440.838                     | 1.0015                             | 0.895       | PASS   |
| 8DPSK         | 3-DH1  | 2439.8344                   | 2440.8461                    | 1.0117                             | 0.871       | PASS   |

### Test Graphs







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## A.5 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result  
Non-Hopping

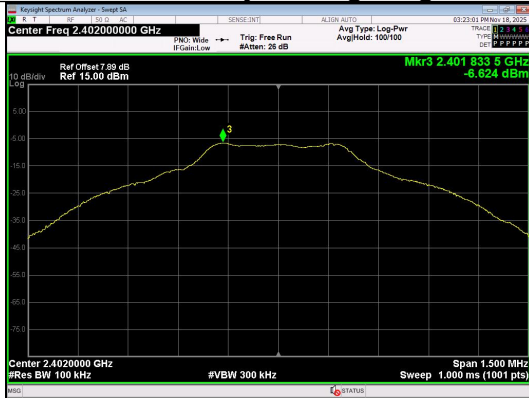
| Modulation    | Packet | Channel | OOB<br>Emission<br>Frequency<br>(MHz) | OOB<br>Emission<br>Level<br>(dBm) | Limit<br>(dBm) | Over Limit<br>(dB) | Result |
|---------------|--------|---------|---------------------------------------|-----------------------------------|----------------|--------------------|--------|
| GFSK          | DH1    | 0       | 2400.00                               | -53.647                           | -26.62         | -27.027            | PASS   |
|               |        |         | 4803.64                               | -65.401                           | -26.62         | -38.781            | PASS   |
|               |        |         | 7205.13                               | -66.144                           | -26.62         | -39.524            | PASS   |
|               |        |         | 9608.49                               | -66.538                           | -26.62         | -39.918            | PASS   |
|               |        |         | 21558.5                               | -52.662                           | -26.62         | -26.042            | PASS   |
|               |        | 39      | 4882.30                               | -64.635                           | -25.68         | -38.955            | PASS   |
|               |        |         | 7323.11                               | -65.648                           | -25.68         | -39.968            | PASS   |
|               |        |         | 9763.31                               | -67.642                           | -25.68         | -41.962            | PASS   |
|               |        |         | 21135.3                               | -52.850                           | -25.68         | -27.170            | PASS   |
|               |        |         | 2483.50                               | -56.408                           | -25.74         | -30.668            | PASS   |
|               |        | 78      | 4960.95                               | -66.395                           | -25.74         | -40.655            | PASS   |
|               |        |         | 7439.85                               | -65.524                           | -25.74         | -39.784            | PASS   |
|               |        |         | 9919.99                               | -63.948                           | -25.74         | -38.208            | PASS   |
|               |        |         | 24503.1                               | -52.597                           | -25.74         | -26.857            | PASS   |
|               |        |         | 2341.58                               | -54.789                           | -29.91         | -24.879            | PASS   |
| $\pi/4$ DQPSK | 2-DH1  | 0       | 2400.00                               | -57.004                           | -29.91         | -27.094            | PASS   |
|               |        |         | 4804.90                               | -64.774                           | -29.91         | -34.864            | PASS   |
|               |        |         | 7206.40                               | -65.832                           | -29.91         | -35.922            | PASS   |
|               |        |         | 9608.50                               | -67.911                           | -29.91         | -38.001            | PASS   |
|               |        |         | 21144.6                               | -52.490                           | -29.91         | -22.580            | PASS   |
|               |        | 39      | 4882.92                               | -65.523                           | -29.15         | -36.373            | PASS   |
|               |        |         | 7323.74                               | -67.635                           | -29.15         | -38.485            | PASS   |
|               |        |         | 9763.93                               | -67.523                           | -29.15         | -38.373            | PASS   |
|               |        |         | 21147.8                               | -52.779                           | -29.15         | -23.629            | PASS   |
|               |        |         | 2483.50                               | -56.627                           | -29.22         | -27.407            | PASS   |
|               |        | 78      | 4960.95                               | -65.158                           | -29.22         | -35.938            | PASS   |
|               |        |         | 7440.47                               | -67.029                           | -29.22         | -37.809            | PASS   |
|               |        |         | 9920.62                               | -64.322                           | -29.22         | -35.102            | PASS   |
|               |        |         | 21615.3                               | -52.708                           | -29.22         | -23.488            | PASS   |
|               |        |         | 2345.26                               | -53.474                           | -29.79         | -23.684            | PASS   |
| 8DPSK         | 3-DH1  | 0       | 2400.00                               | -55.415                           | -29.79         | -25.625            | PASS   |
|               |        |         | 4804.30                               | -65.871                           | -29.79         | -36.081            | PASS   |
|               |        |         | 7205.80                               | -65.500                           | -29.79         | -35.710            | PASS   |
|               |        |         | 9607.20                               | -67.554                           | -29.79         | -37.764            | PASS   |
|               |        |         | 21554.8                               | -52.691                           | -29.79         | -22.901            | PASS   |
|               |        | 39      | 4881.67                               | -64.472                           | -28.98         | -35.492            | PASS   |
|               |        |         | 7322.49                               | -67.052                           | -28.98         | -38.072            | PASS   |
|               |        |         | 9763.31                               | -67.576                           | -28.98         | -38.596            | PASS   |
|               |        |         | 21162.7                               | -52.352                           | -28.98         | -23.372            | PASS   |
|               |        |         | 2483.50                               | -55.635                           | -29.07         | -26.565            | PASS   |
|               |        | 78      | 4959.08                               | -66.208                           | -29.07         | -37.138            | PASS   |
|               |        |         | 7440.47                               | -67.851                           | -29.07         | -38.781            | PASS   |
|               |        |         | 9919.99                               | -65.021                           | -29.07         | -35.951            | PASS   |
|               |        |         | 21553.5                               | -52.473                           | -29.07         | -23.403            | PASS   |
|               |        |         |                                       |                                   |                |                    |        |

Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs



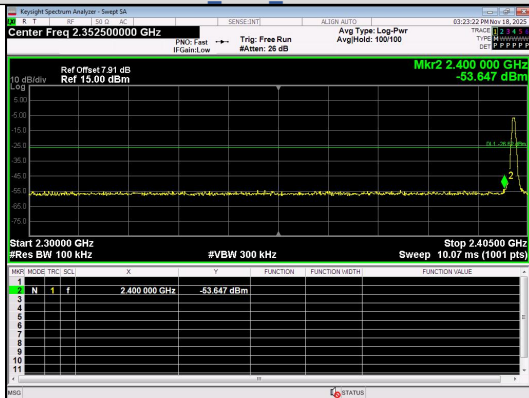
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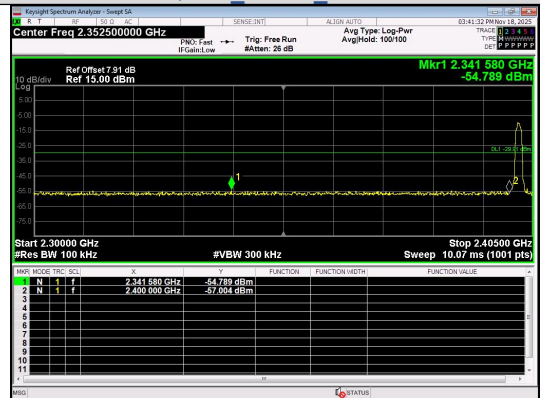
In-Band Reference Level  
GFSK\_DH1\_Channel 0



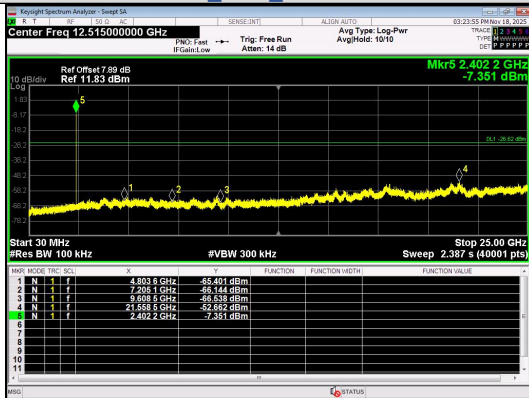
In-Band Reference Level  
 $\pi/4$ DQPSK\_2-DH1\_Channel 0



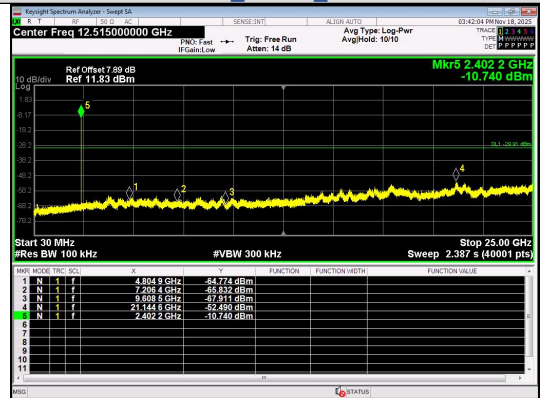
Out Of Band Emission  
GFSK\_DH1\_Channel 0



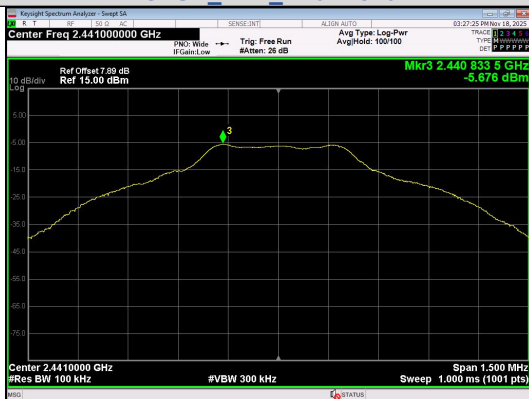
Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH1\_Channel 0



30.0 MHz - 25000.0 MHz  
GFSK\_DH1\_Channel 0



30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH1\_Channel 0



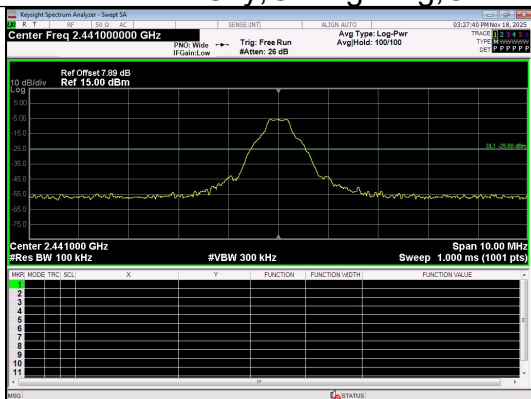
In-Band Reference Level  
GFSK\_DH1\_Channel 39



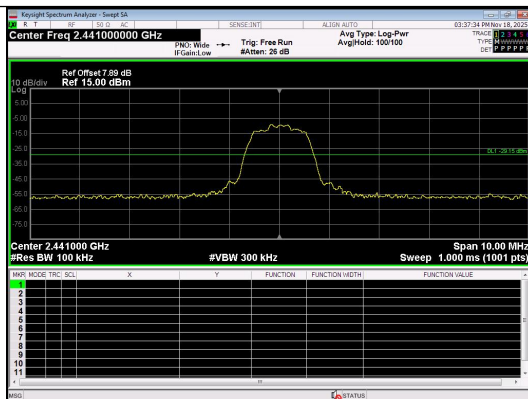
In-Band Reference Level  
 $\pi/4$ DQPSK\_2-DH1\_Channel 39



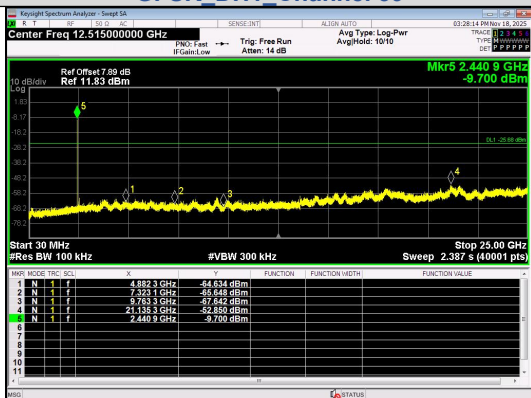
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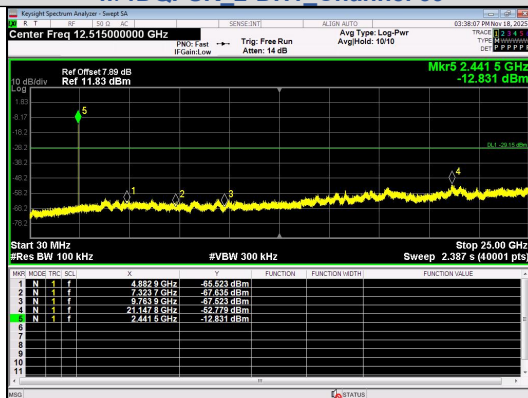
Out Of Band Emission  
GFSK\_DH1\_Channel 39



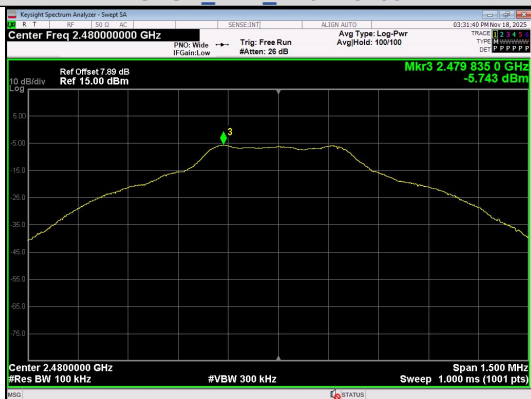
Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH1\_Channel 39



30.0 MHz - 25000.0 MHz  
GFSK\_DH1\_Channel 39



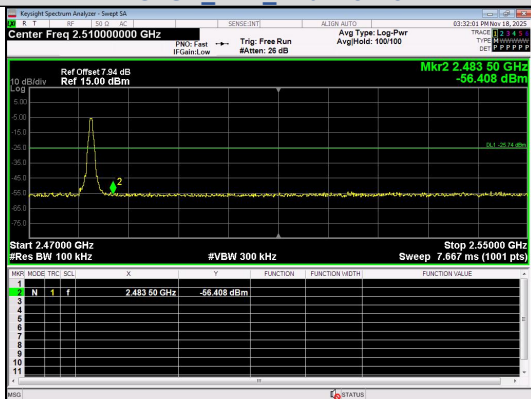
30.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH1\_Channel 39



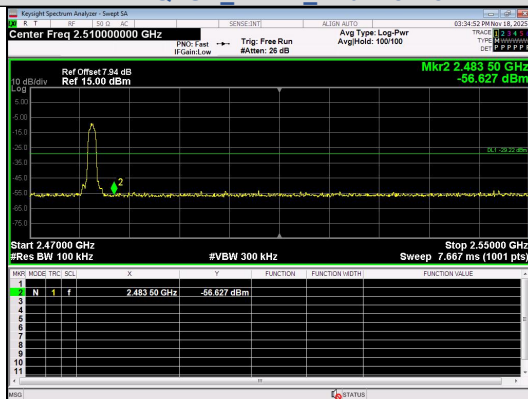
In-Band Reference Level  
GFSK\_DH1\_Channel 78



In-Band Reference Level  
 $\pi/4$ DQPSK\_2-DH1\_Channel 78



Out Of Band Emission  
GFSK\_DH1\_Channel 78



Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH1\_Channel 78