

Appendix A

| | |
|----------------|-------------------|
| Report No.: | CISRR24041508401 |
| FCC ID: | 2A5VZ-F6 |
| Product Name: | Bluetooth headset |
| Model No.: | F6 |
| Test Engineer: | Lucas Huang |
| Supervised by: | Rory Huang |

Conducted Peak Output Power

Test Result

Left

| Modulation | Packet Type | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Limit (dBm) | Result |
|---------------|-------------|---------|-------------------------|------------------------|-------------|--------|
| GFSK | DH5 | 0 | 5.648 | 3.671 | 30 | PASS |
| | | 39 | 3.426 | 2.201 | | PASS |
| | | 78 | 3.476 | 2.230 | | PASS |
| $\pi/4$ DQPSK | 2-DH5 | 0 | 5.246 | 3.346 | 20.97 | PASS |
| | | 39 | 3.021 | 2.005 | | PASS |
| | | 78 | 3.687 | 2.337 | | PASS |
| 8DPSK | 3-DH5 | 0 | 3.908 | 2.460 | | PASS |
| | | 39 | 3.415 | 2.195 | | PASS |
| | | 78 | 4.135 | 2.591 | | PASS |

Right

| Modulation | Packet Type | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Limit (dBm) | Result |
|---------------|-------------|---------|-------------------------|------------------------|-------------|--------|
| GFSK | DH5 | 0 | 5.666 | 3.686 | 30 | PASS |
| | | 39 | 3.977 | 2.500 | | PASS |
| | | 78 | 3.532 | 2.260 | | PASS |
| $\pi/4$ DQPSK | 2-DH5 | 0 | 5.362 | 3.437 | 20.97 | PASS |
| | | 39 | 3.064 | 2.025 | | PASS |
| | | 78 | 3.724 | 2.357 | | PASS |
| 8DPSK | 3-DH5 | 0 | 3.501 | 2.239 | | PASS |
| | | 39 | 3.434 | 2.205 | | PASS |
| | | 78 | 4.159 | 2.606 | | PASS |

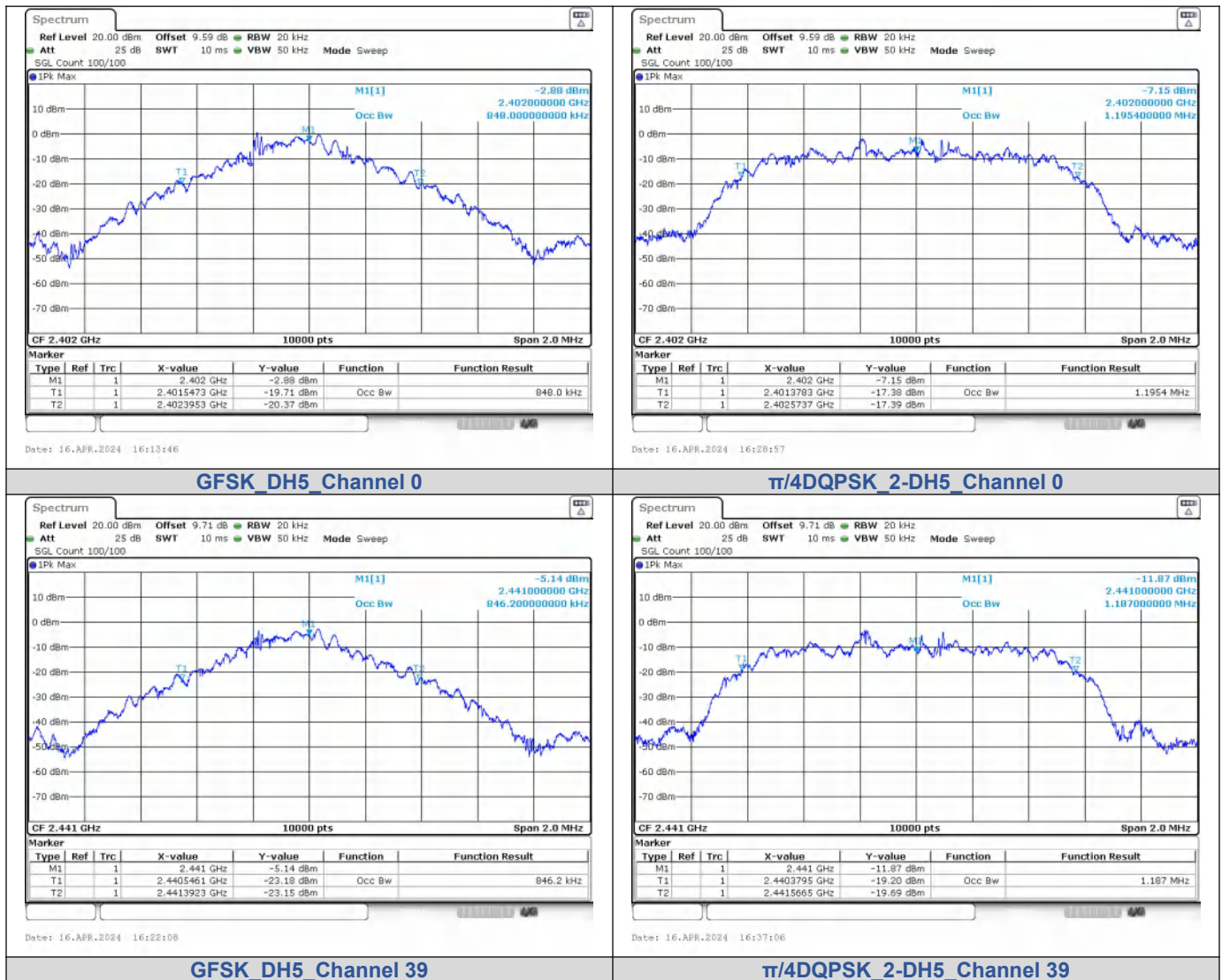
99% Bandwidth

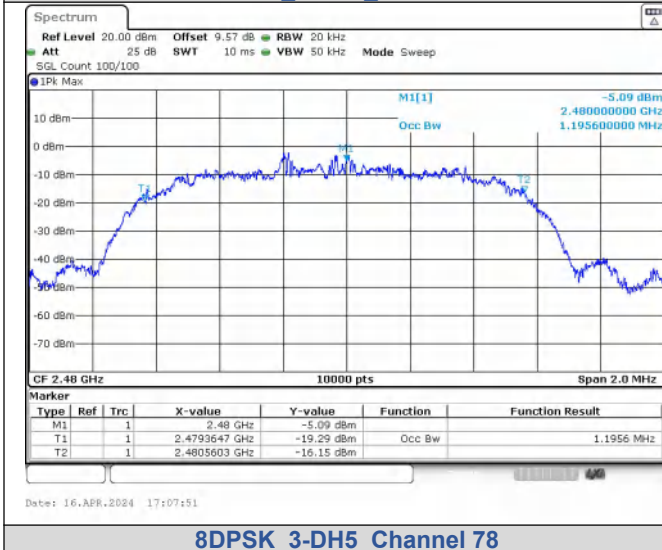
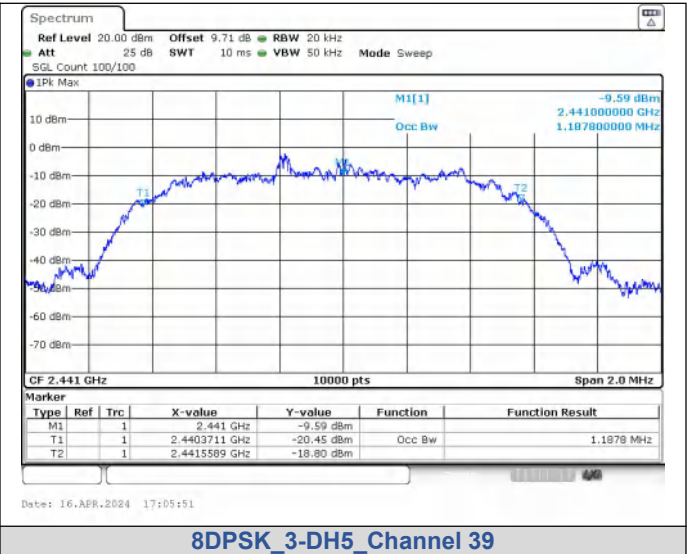
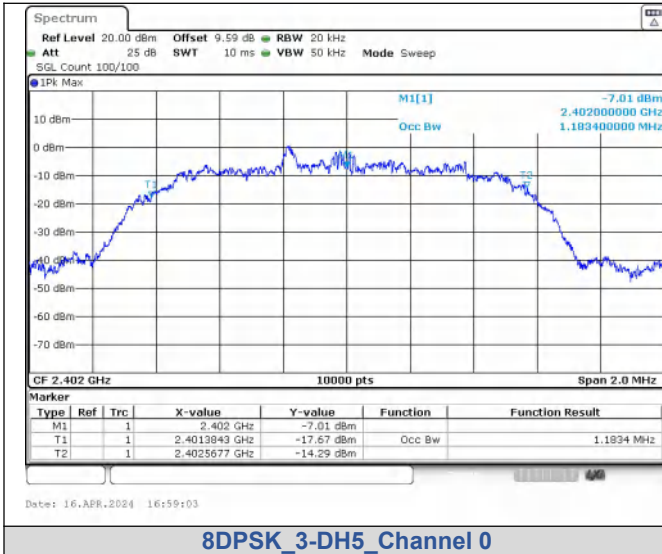
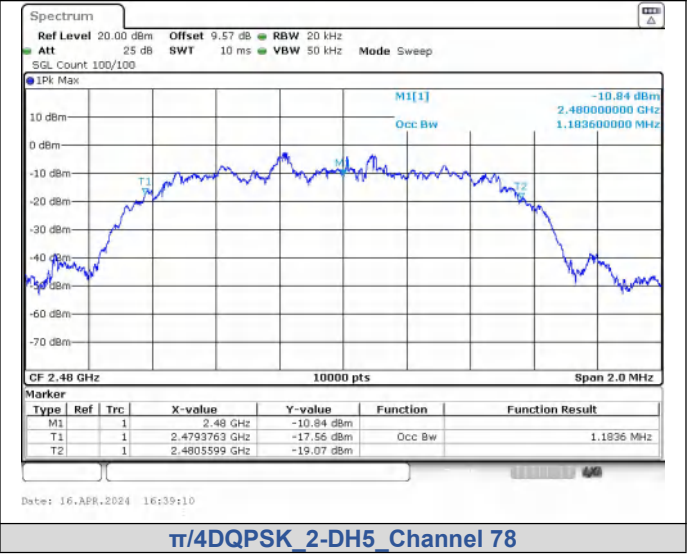
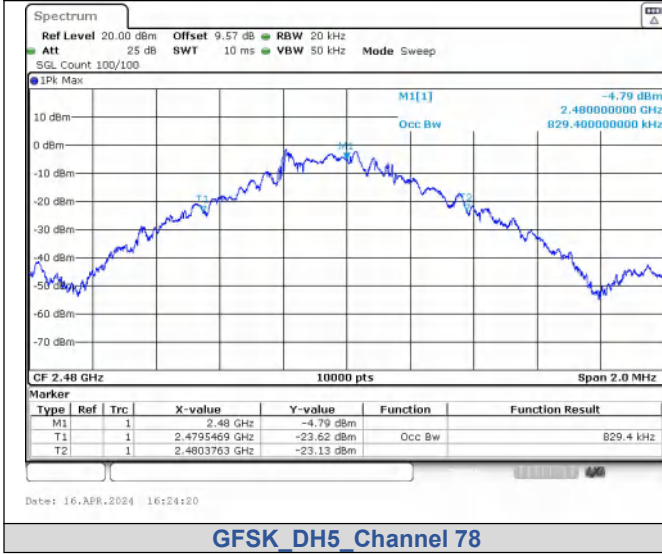
Test Result

Left

| Modulation | Channel | 99% BW (MHz) |
|---------------|---------|--------------|
| GFSK | 0 | 0.84800 |
| | 39 | 0.84620 |
| | 78 | 0.82940 |
| $\pi/4$ DQPSK | 0 | 1.1950 |
| | 39 | 1.1870 |
| | 78 | 1.1840 |
| 8DPSK | 0 | 1.1830 |
| | 39 | 1.1880 |
| | 78 | 1.1960 |

Test Graphs

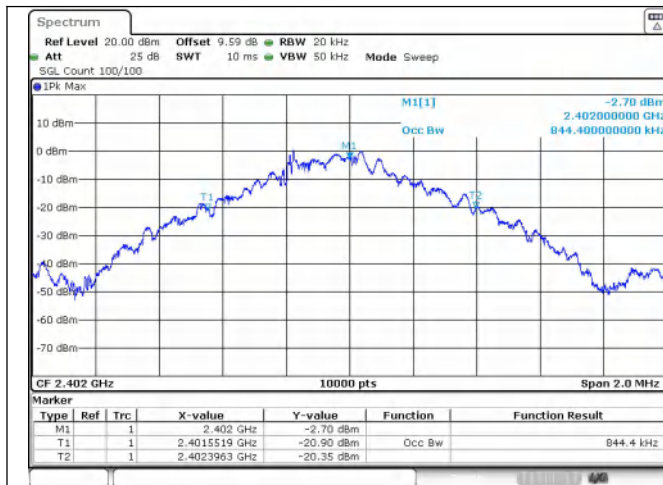




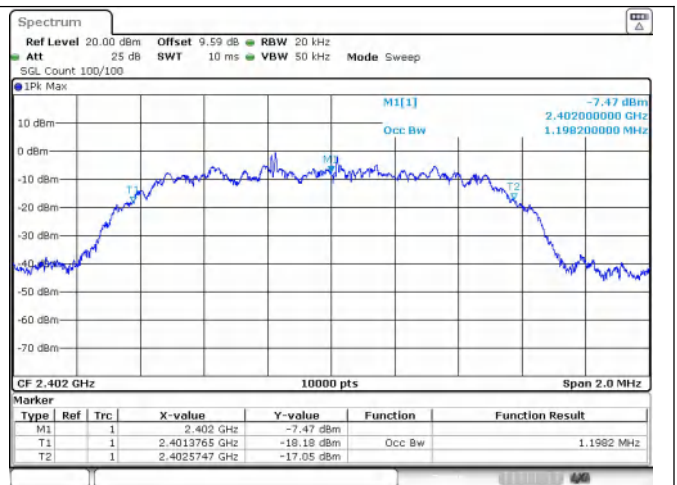
Right

Test Result

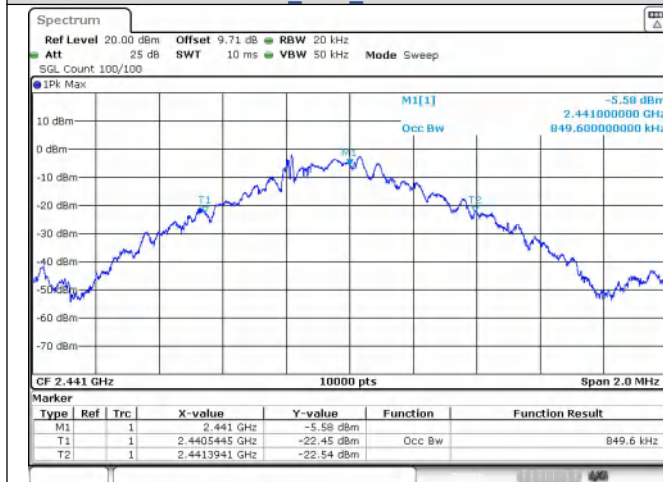
| Modulation | Channel | 99% BW (MHz) |
|---------------|---------|--------------|
| GFSK | 0 | 0.84440 |
| | 39 | 0.84960 |
| | 78 | 0.84480 |
| $\pi/4$ DQPSK | 0 | 1.1980 |
| | 39 | 1.1900 |
| | 78 | 1.1810 |
| 8DPSK | 0 | 1.1960 |
| | 39 | 1.1960 |
| | 78 | 1.1830 |

Test Graphs


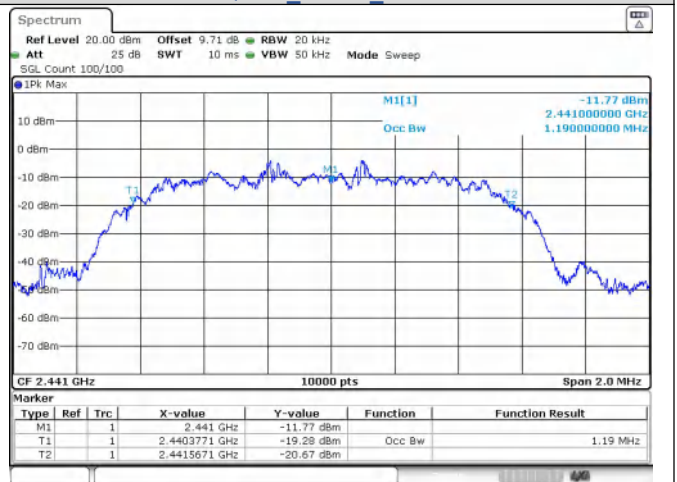
Date: 16.APR.2024 17:16:57

GFSK DH5 Channel 0


Date: 16.APR.2024 17:31:58

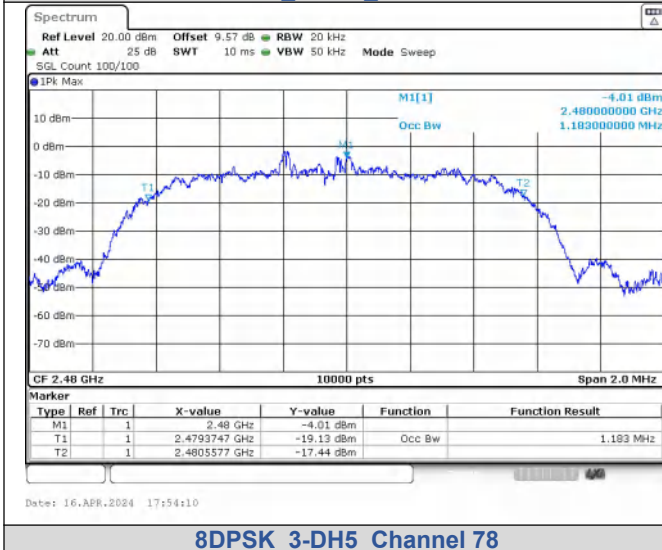
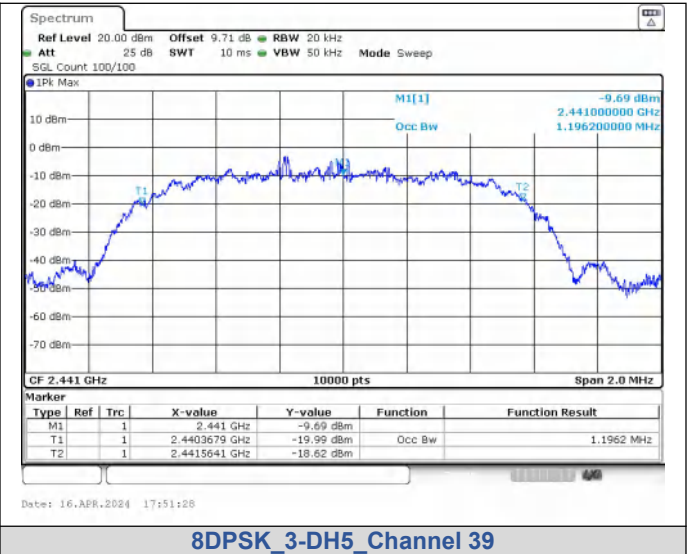
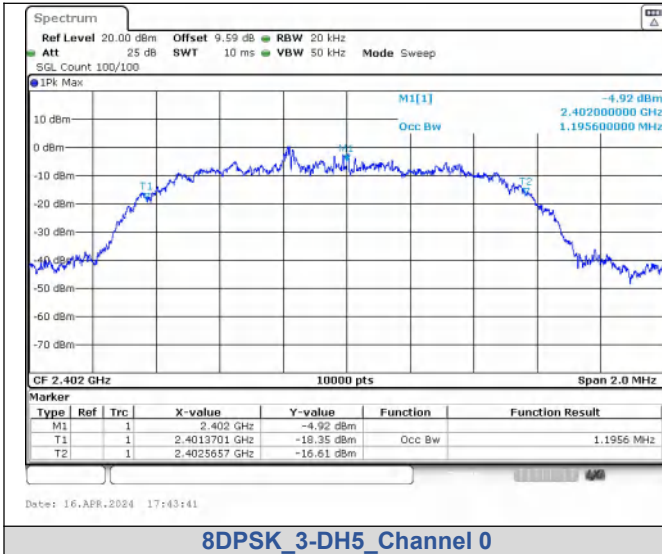
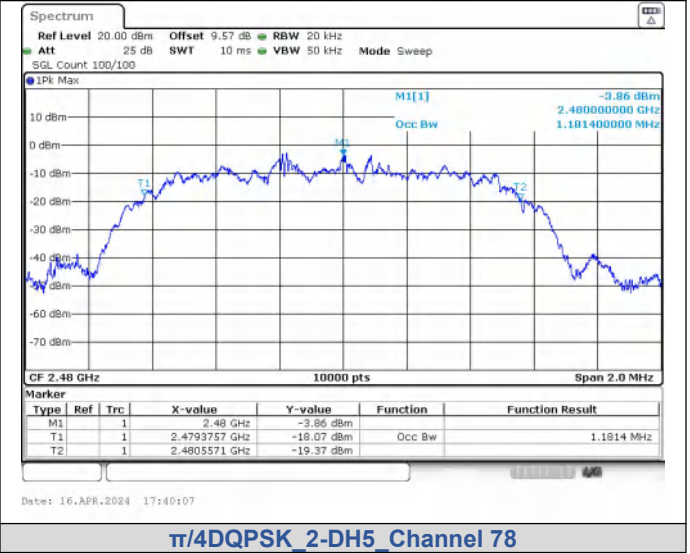
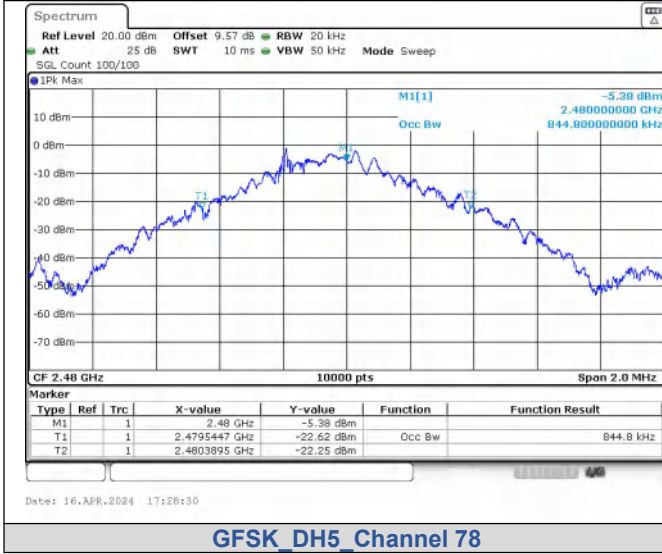
 $\pi/4$ DQPSK 2-DH5 Channel 0


Date: 16.APR.2024 17:26:18

GFSK DH5 Channel 39


Date: 16.APR.2024 17:38:04

 $\pi/4$ DQPSK 2-DH5 Channel 39



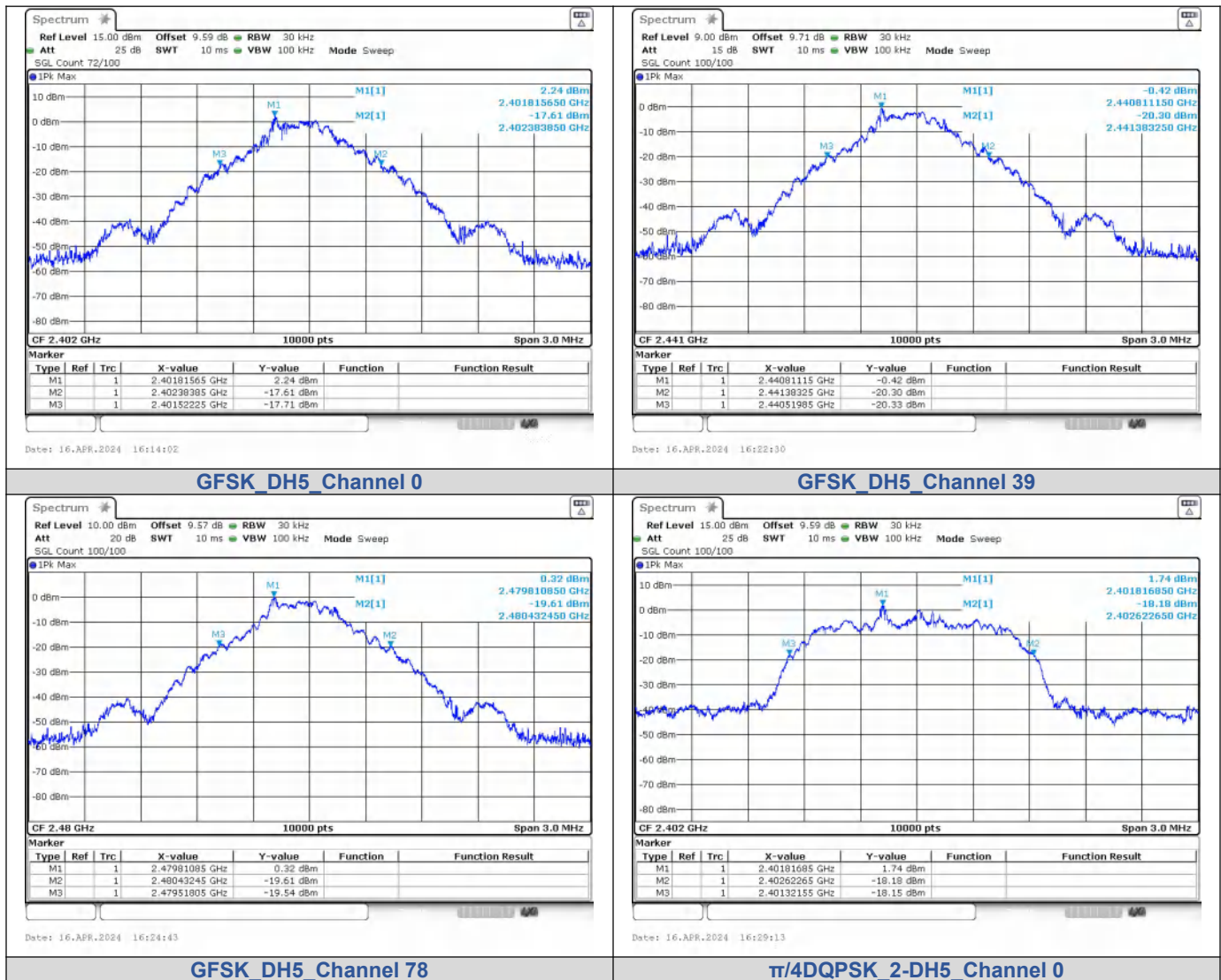
20dB Bandwidth

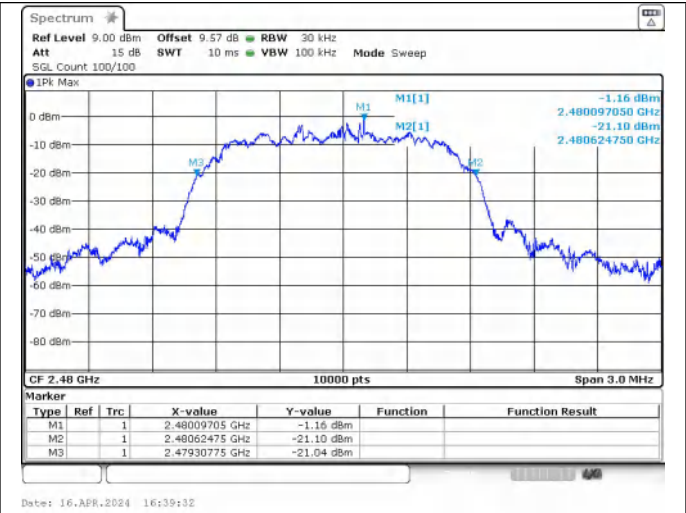
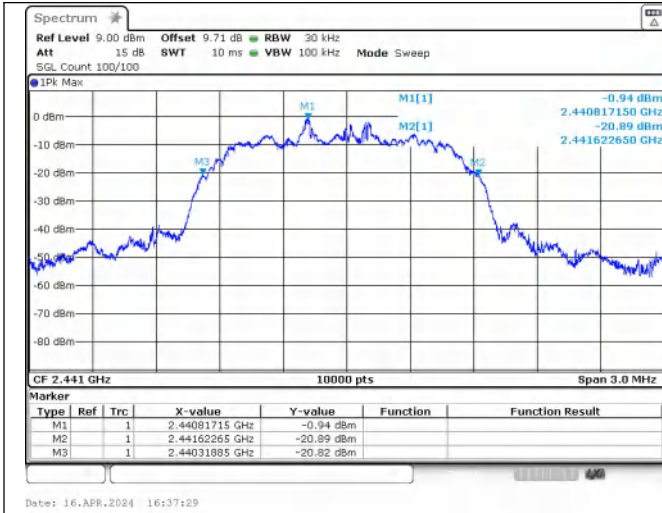
Test Result

Left

| Modulation | Channel | Center Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------------|---------|------------------------|-----------------------|
| GFSK | 0 | 2402 MHz | 0.8600 |
| | 39 | 2441 MHz | 0.8600 |
| | 78 | 2480 MHz | 0.9100 |
| $\pi/4$ DQPSK | 0 | 2402 MHz | 1.300 |
| | 39 | 2441 MHz | 1.300 |
| | 78 | 2480 MHz | 1.310 |
| 8DPSK | 0 | 2402 MHz | 1.290 |
| | 39 | 2441 MHz | 1.300 |
| | 78 | 2480 MHz | 1.280 |

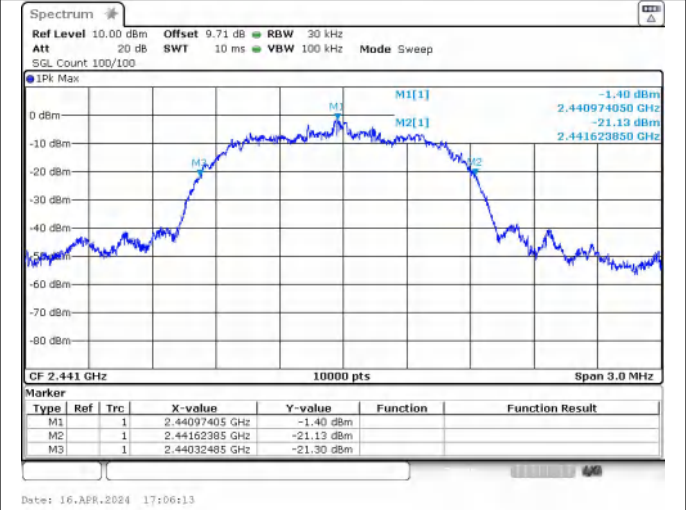
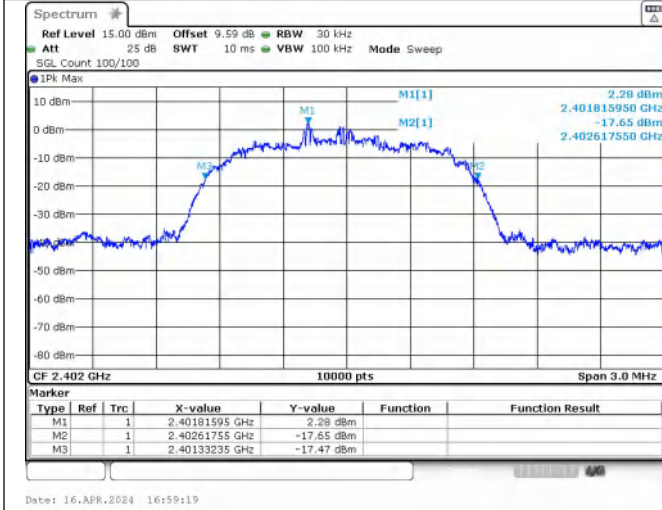
Test Graphs





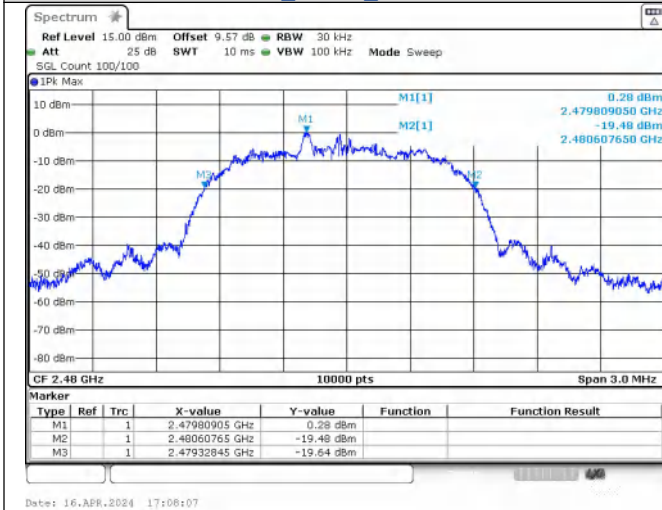
π /4DQPSK 2-DH5_Channel 39

π /4DQPSK 2-DH5_Channel 78



8DPSK 3-DH5_Channel 0

8DPSK 3-DH5_Channel 39

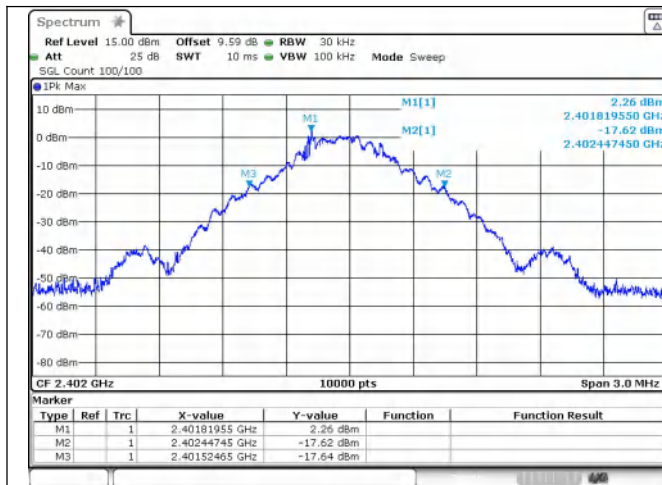


8DPSK 3-DH5_Channel 78

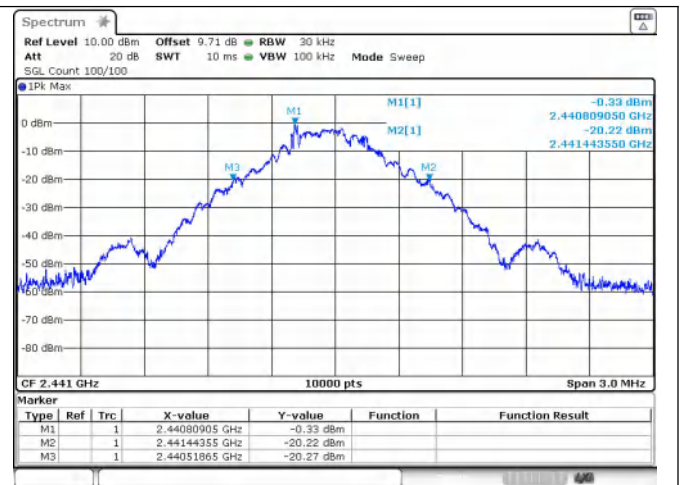
Right

Test Result

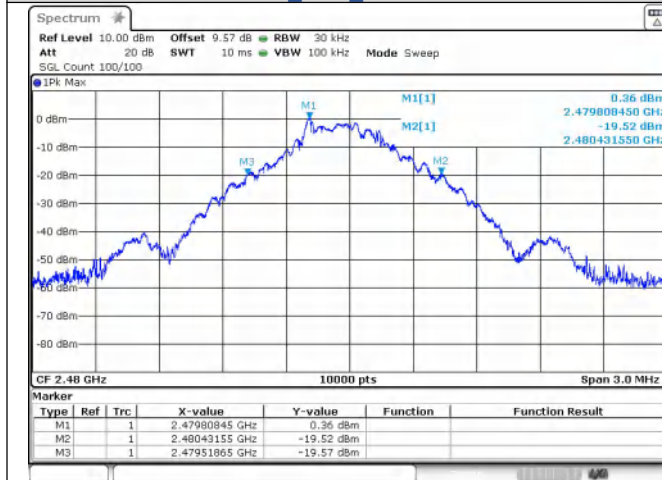
| Modulation | Channel | Center Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------------|---------|------------------------|-----------------------|
| GFSK | 0 | 2402 MHz | 0.9300 |
| | 39 | 2441 MHz | 0.9200 |
| | 78 | 2480 MHz | 0.9100 |
| $\pi/4$ DQPSK | 0 | 2402 MHz | 1.280 |
| | 39 | 2441 MHz | 1.270 |
| | 78 | 2480 MHz | 1.300 |
| 8DPSK | 0 | 2402 MHz | 1.290 |
| | 39 | 2441 MHz | 1.280 |
| | 78 | 2480 MHz | 1.280 |

Test Graphs


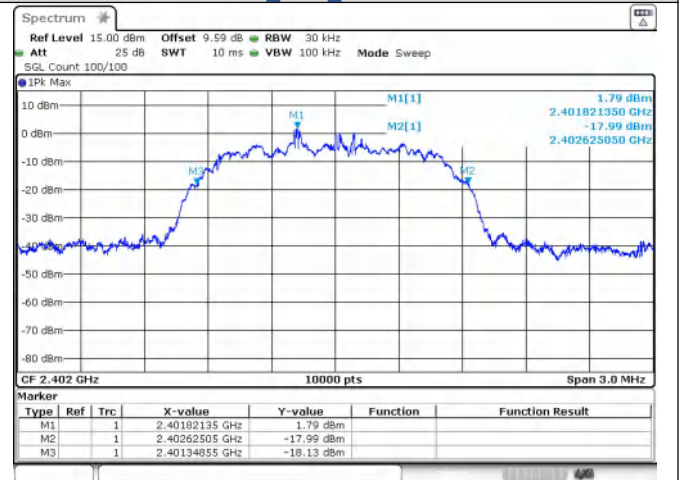
Date: 16.APR.2024 17:19:13



Date: 16.APR.2024 17:26:40

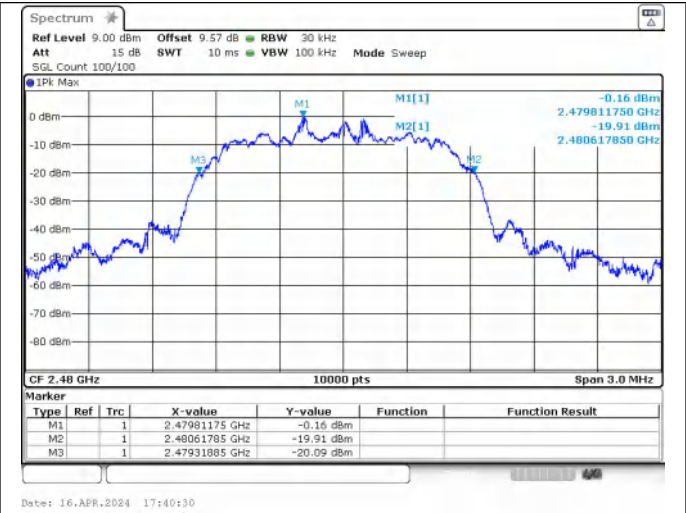
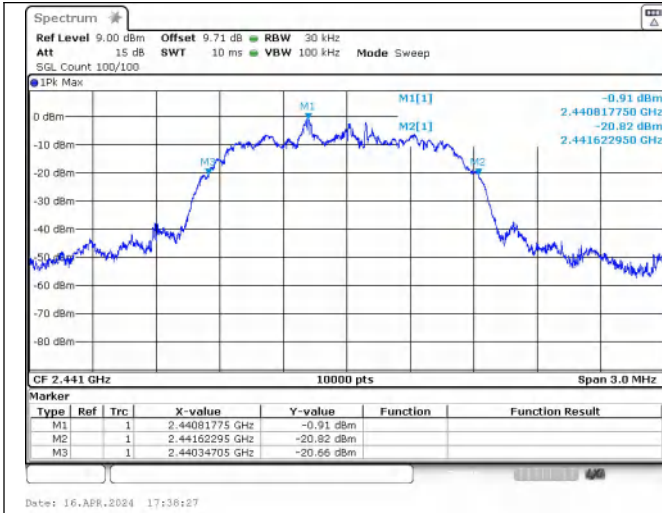
GFSK DH5 Channel 0


Date: 16.APR.2024 17:26:53

GFSK DH5 Channel 39


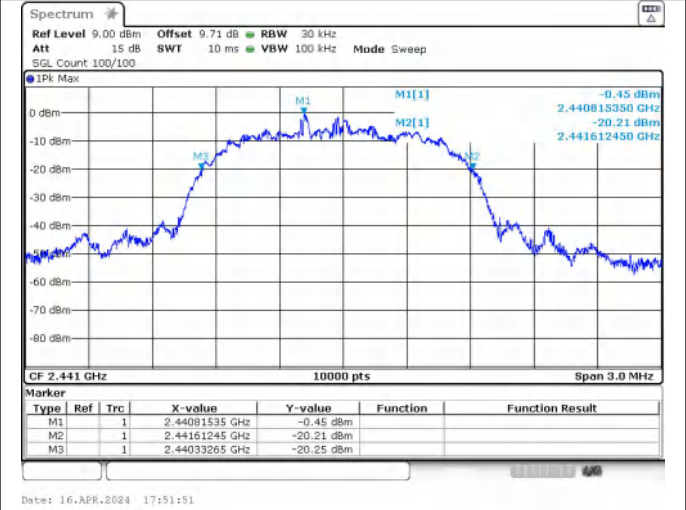
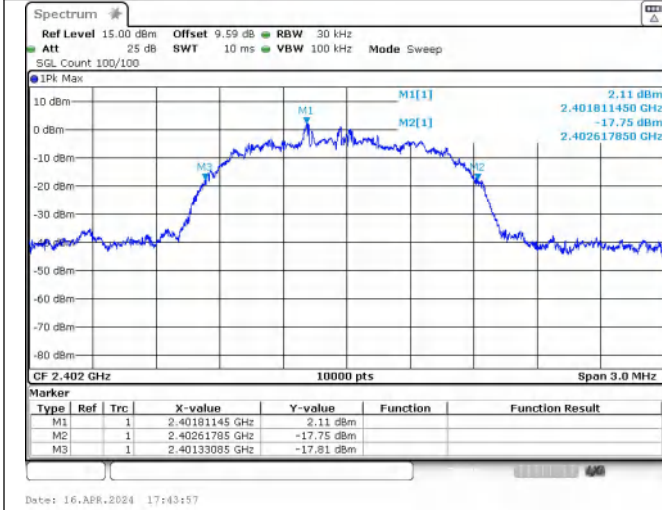
Date: 16.APR.2024 17:32:10

GFSK DH5 Channel 78
 $\pi/4$ DQPSK 2-DH5 Channel 0



π /4DQPSK 2-DH5_Channel 39

π /4DQPSK 2-DH5_Channel 78



8DPSK 3-DH5_Channel 0

8DPSK 3-DH5_Channel 39



8DPSK 3-DH5_Channel 78

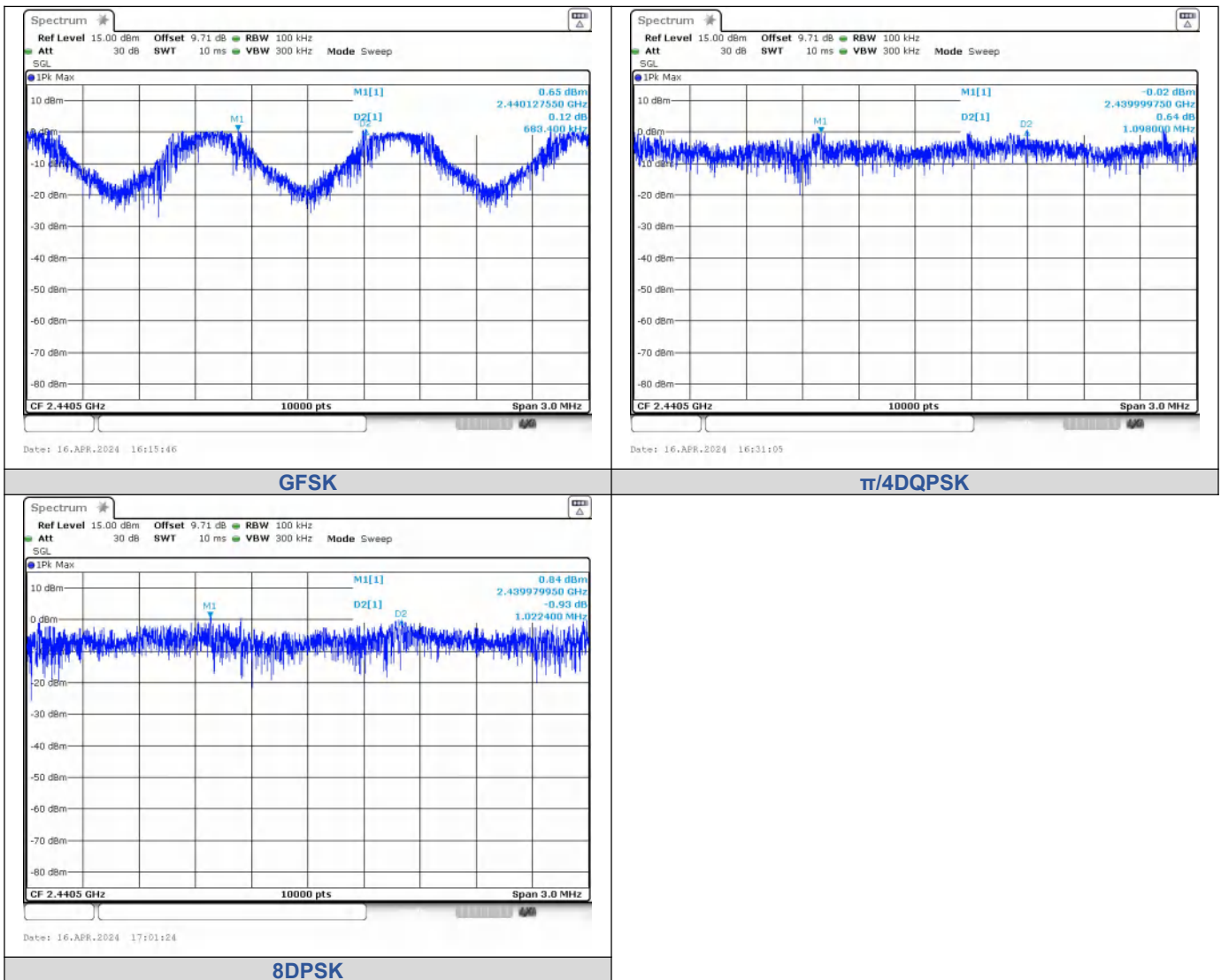
Carrier Frequencies Separation

Test Result

Left

| Modulation | Packet | Left Center frequency (MHz) | Right Center frequency (MHz) | Hopping Frequency Separation (MHz) | Limit (MHz) | Result |
|---------------|--------|-----------------------------|------------------------------|------------------------------------|-------------|--------|
| GFSK | DH5 | 2440.1276 | 2440.811 | 0.6834 | 0.573 | PASS |
| $\pi/4$ DQPSK | 2-DH5 | 2439.9997 | 2441.0977 | 1.0980 | 0.867 | PASS |
| 8DPSK | 3-DH5 | 2439.9799 | 2441.0024 | 1.0224 | 0.86 | PASS |

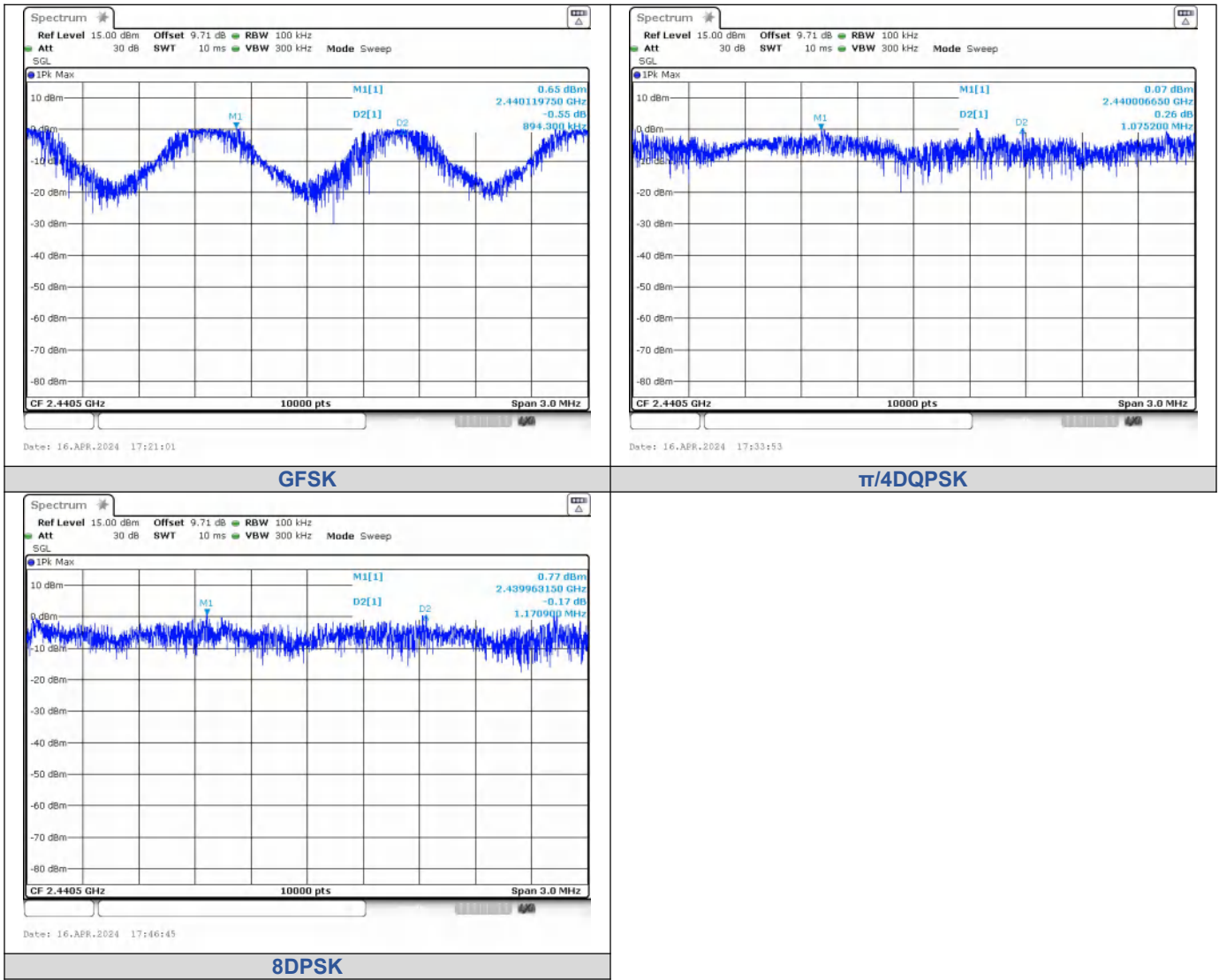
Test Graphs



Right

| Modulation | Packet | Left Center frequency (MHz) | Right Center frequency (MHz) | Hopping Frequency Separation (MHz) | Limit (MHz) | Result |
|---------------|--------|-----------------------------|------------------------------|------------------------------------|-------------|--------|
| GFSK | DH5 | 2440.1197 | 2441.0141 | 0.8943 | 0.62 | PASS |
| $\pi/4$ DQPSK | 2-DH5 | 2440.0066 | 2441.0819 | 1.0752 | 0.853 | PASS |
| 8DPSK | 3-DH5 | 2439.9632 | 2441.1341 | 1.1709 | 0.86 | PASS |

Test Graphs



Conducted Out Of Band Emission

Test Result

Left

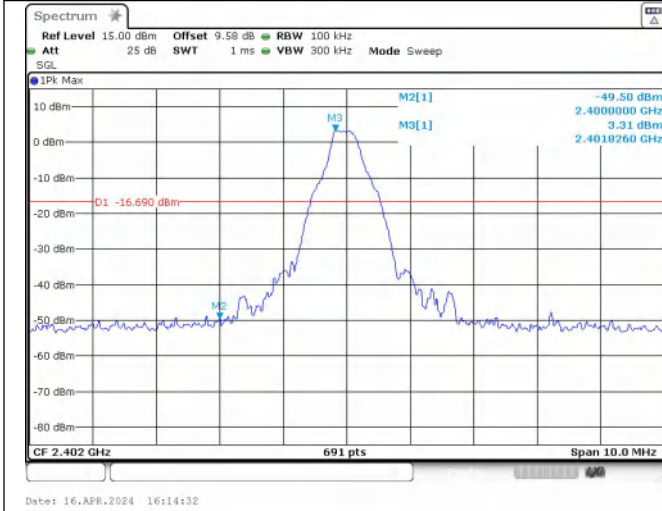
Non-Hopping

| Modulation | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result | |
|------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|---------|------|
| GFSK | DH5 | 0 | 2400.00 | -49.501 | -16.69 | -32.811 | PASS | |
| | | | 4803.85 | -27.296 | -16.69 | -10.606 | PASS | |
| | | 39 | 4882.09 | -31.265 | -19.26 | -12.005 | PASS | |
| | | | 78 | 2483.50 | -51.210 | -18.67 | -32.540 | PASS |
| | | | 4959.49 | -33.146 | -18.67 | -14.476 | PASS | |
| π/4DQPSK | 2-DH5 | 0 | 2400.00 | -49.486 | -16.59 | -32.896 | PASS | |
| | | | 2397.07 | -49.312 | -16.59 | -32.722 | PASS | |
| | | | 4804.70 | -29.843 | -16.59 | -13.253 | PASS | |
| | | 39 | 4882.09 | -30.935 | -19.18 | -11.755 | PASS | |
| | | | 78 | 2483.50 | -52.349 | -18.64 | -33.709 | PASS |
| | | | 4959.49 | -34.119 | -18.64 | -15.479 | PASS | |
| 8DPSK | 3-DH5 | 0 | 2400.00 | -49.096 | -16.62 | -32.477 | PASS | |
| | | | 4803.85 | -27.485 | -16.62 | -10.865 | PASS | |
| | | 39 | 4882.09 | -32.129 | -19.15 | -12.979 | PASS | |
| | | | 78 | 2483.50 | -51.106 | -18.6 | -32.506 | PASS |
| | | | 4960.33 | -32.810 | -18.6 | -14.210 | PASS | |

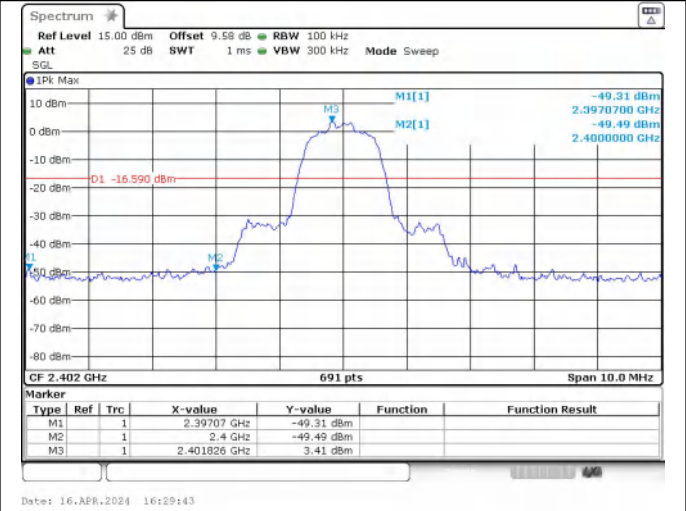
Hopping

| Modulation | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK | DH5 | Hopping | 2395.53 | -49.391 | -16.66 | -32.731 | PASS |
| | | | 2400.00 | -51.782 | -16.66 | -35.122 | PASS |
| | | | 2483.50 | -50.441 | -18.7 | -31.741 | PASS |
| | | | 2398.25 | -49.251 | -16.66 | -32.591 | PASS |
| | | | 2400.00 | -52.107 | -16.66 | -35.447 | PASS |
| | | | 2483.50 | -51.651 | -18.59 | -33.061 | PASS |
| π/4DQPSK | 2-DH5 | | 2397.55 | -50.288 | -16.71 | -33.578 | PASS |
| | | | 2400.00 | -51.949 | -16.71 | -35.239 | PASS |
| | | | 2483.50 | -50.588 | -18.48 | -32.108 | PASS |
| | | | 2397.12 | -50.687 | -16.81 | -33.877 | PASS |
| | | | 2400.00 | -51.188 | -16.81 | -34.377 | PASS |
| | | | 2483.50 | -51.111 | -18.63 | -32.481 | PASS |
| 8DPSK | 3-DH5 | | 2396.64 | -50.305 | -16.91 | -33.395 | PASS |
| | | | 2400.00 | -51.759 | -16.91 | -34.849 | PASS |
| | | | 2483.50 | -50.669 | -18.62 | -32.049 | PASS |
| | | | 2397.06 | -49.964 | -16.68 | -33.284 | PASS |
| | | | 2400.00 | -51.434 | -16.68 | -34.754 | PASS |
| | | | 2483.50 | -50.853 | -18.59 | -32.263 | PASS |

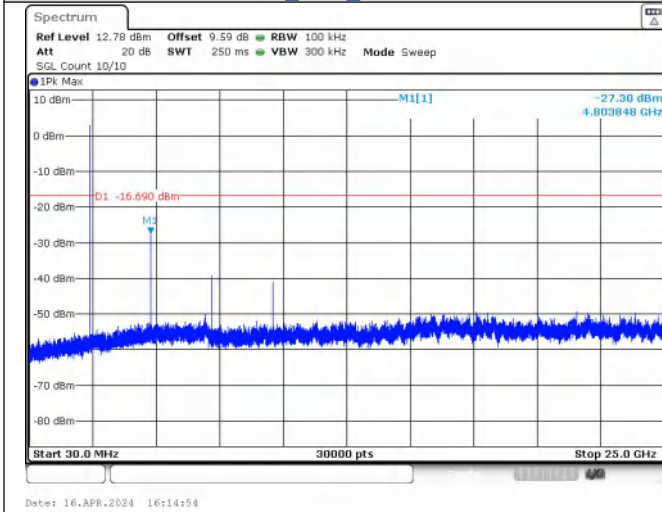
Test Graphs



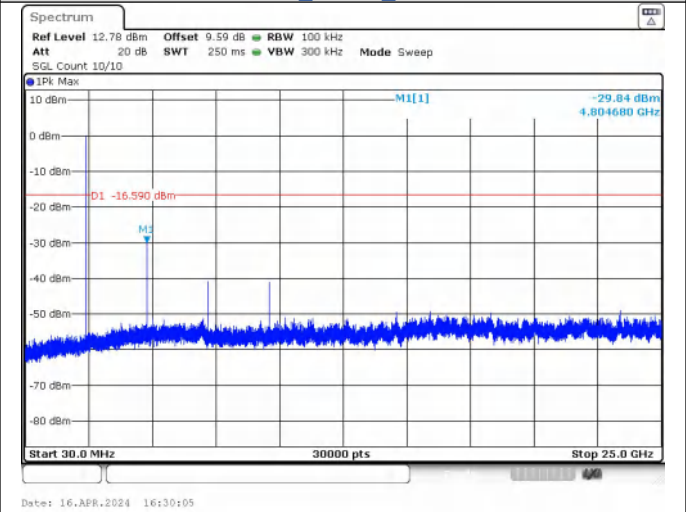
**Out Of Band Emission
GFSK_DH5_Channel 0**



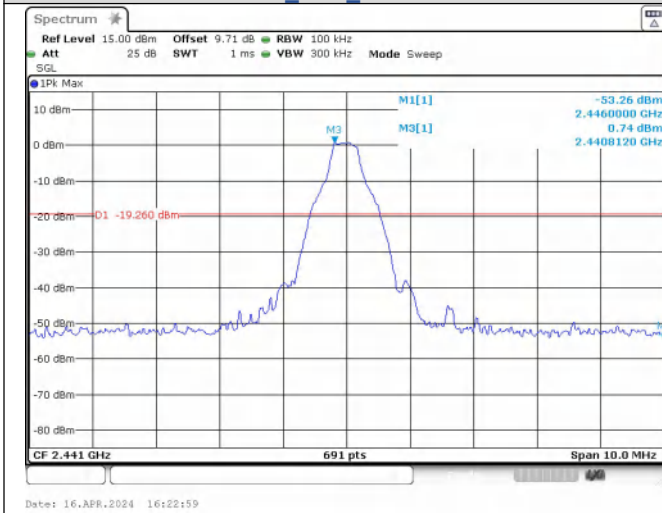
**Out Of Band Emission
 $\pi/4$ QPSK_2-DH5_Channel 0**



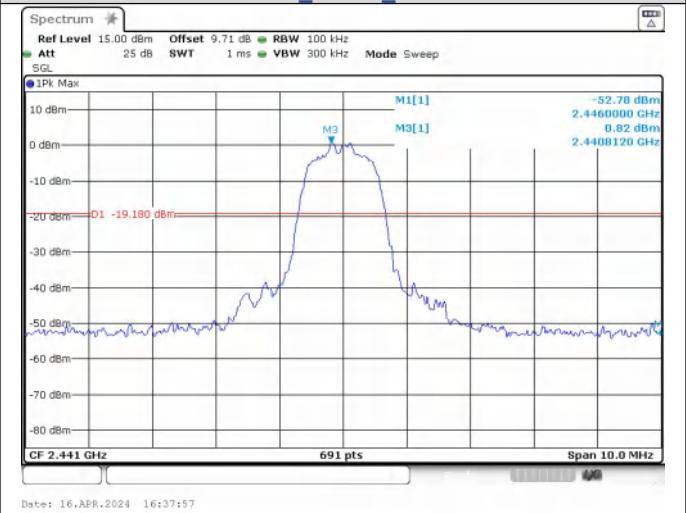
**Spurious Emission
GFSK_DH5_Channel 0**



**Spurious Emission
 $\pi/4$ QPSK_2-DH5_Channel 0**

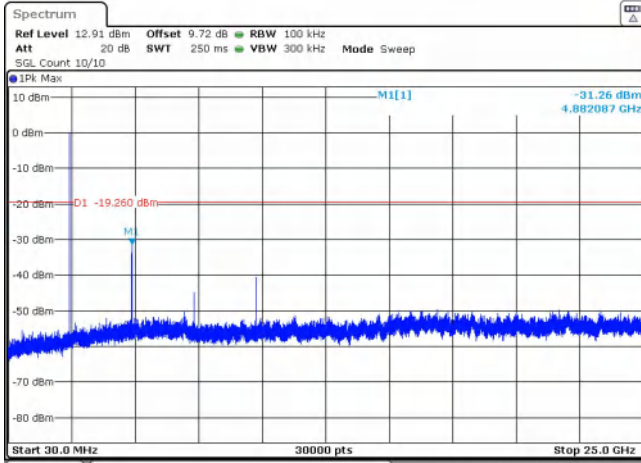


Out Of Band Emission



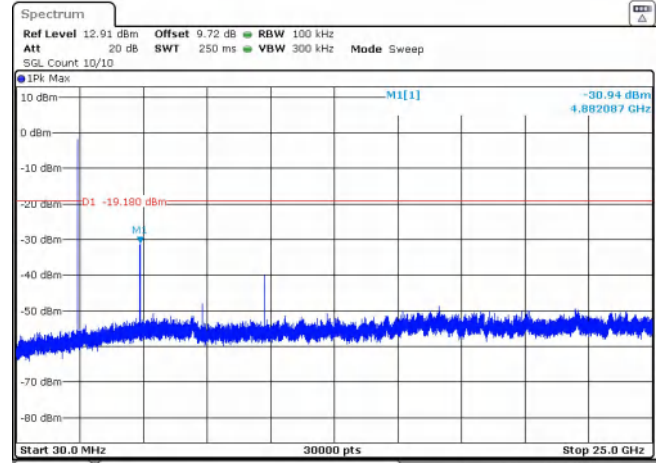
Out Of Band Emission

GFSK_DH5_Channel 39



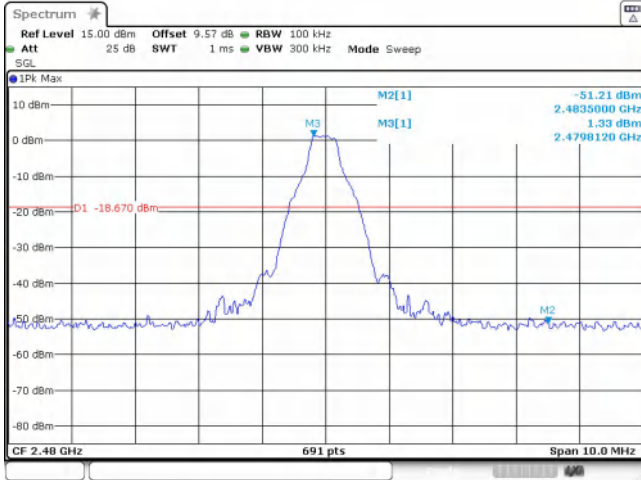
Date: 16.APR.2024 16:23:21

$\pi/4$ DQPSK_2-DH5_Channel 39



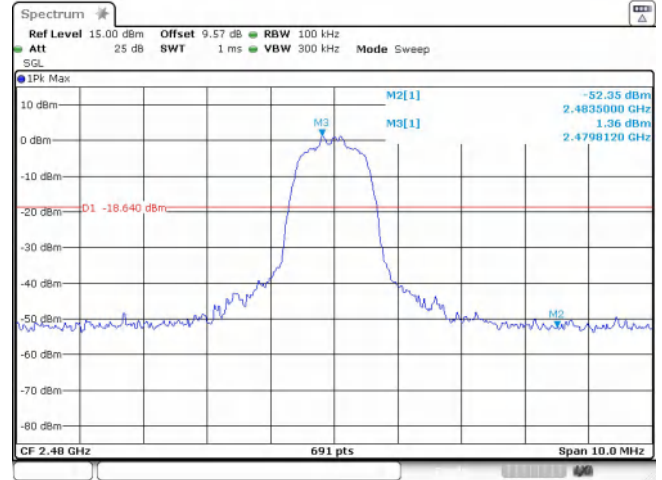
Date: 16.APR.2024 16:38:19

**Spurious Emissions
GFSK_DH5_Channel 39**



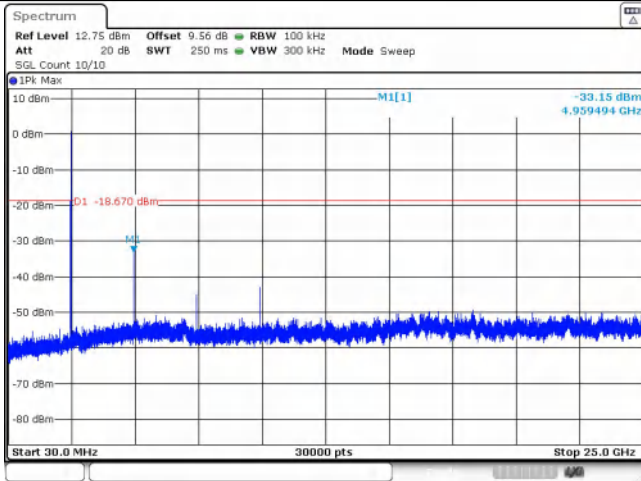
Date: 16.APR.2024 16:25:17

**Spurious Emissions
 $\pi/4$ DQPSK_2-DH5_Channel 39**



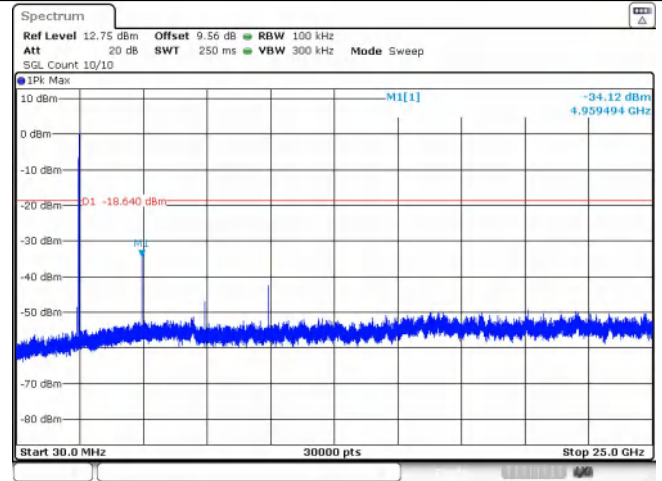
Date: 16.APR.2024 16:40:06

**Out Of Band Emission
GFSK_DH5_Channel 78**



Date: 16.APR.2024 16:25:39

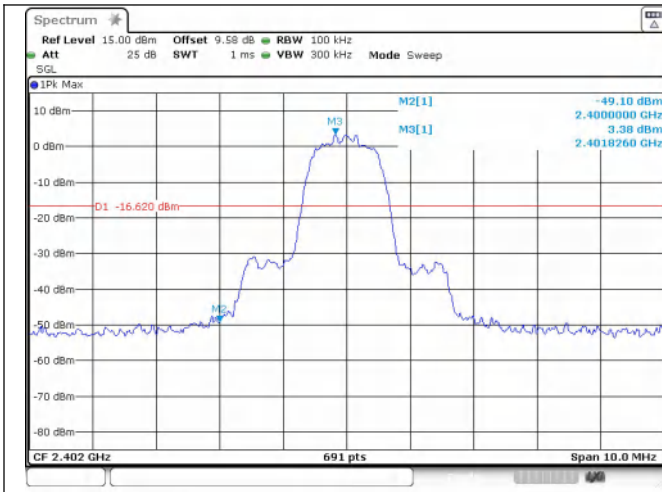
**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78**



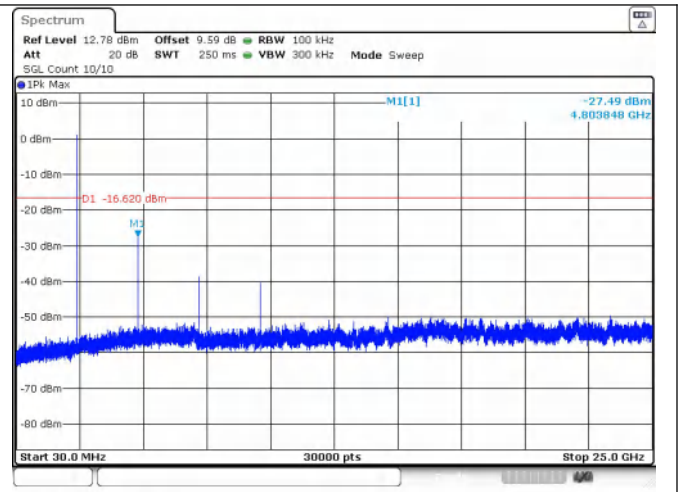
Date: 16.APR.2024 16:40:28

Spurious Emission
GFSK_DH5_Channel 78

Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



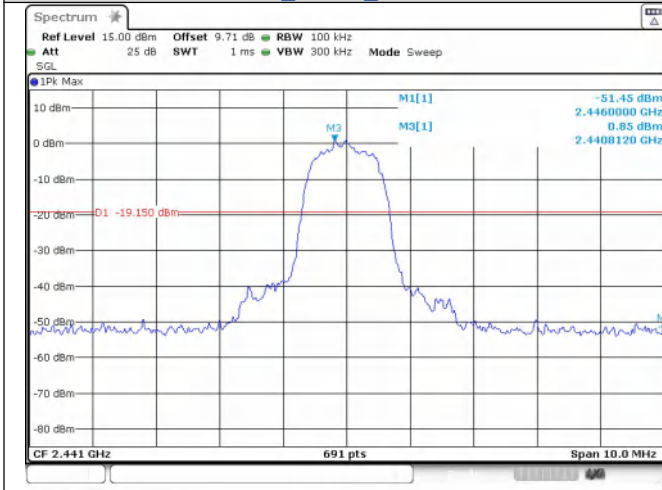
Date: 16.APR.2024 16:59:49



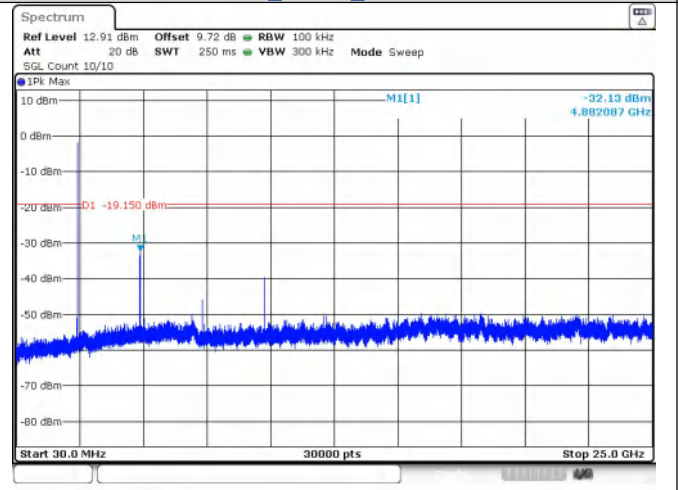
Date: 16.APR.2024 17:00:11

Out Of Band Emission
8DPSK_3-DH5_Channel 0

Spurious Emission
8DPSK_3-DH5_Channel 0



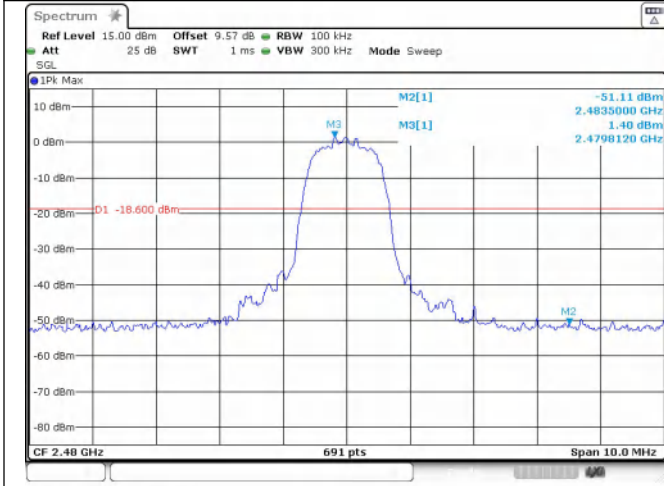
Date: 16.APR.2024 17:06:42



Date: 16.APR.2024 17:07:04

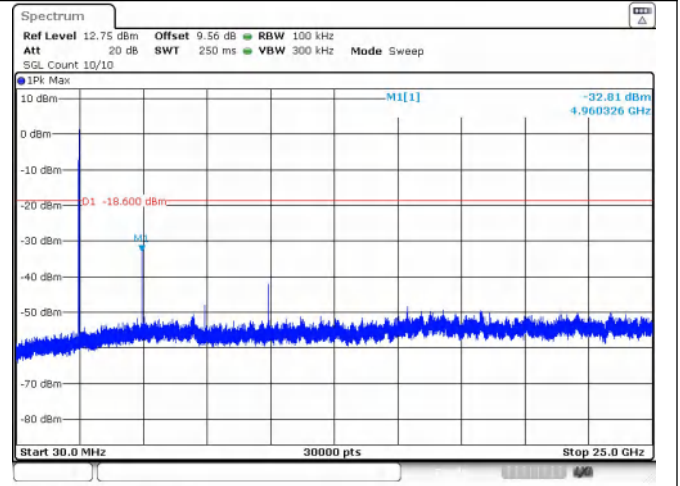
Out Of Band Emission
8DPSK_3-DH5_Channel 39

Spurious Emissions
8DPSK_3-DH5_Channel 39



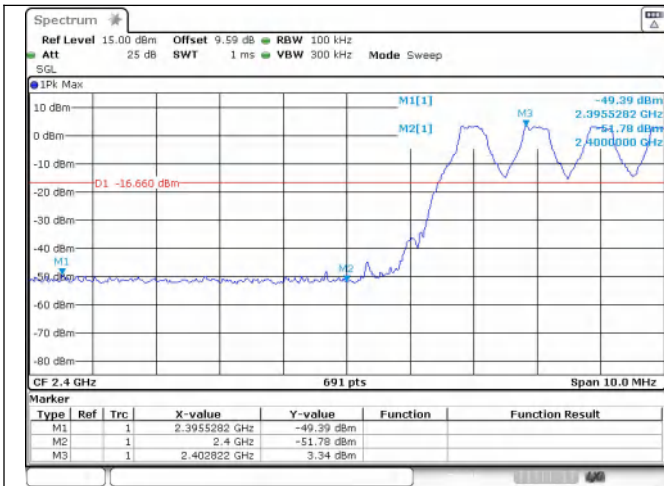
Date: 16.APR.2024 17:08:37

**Out Of Band Emission
8DPSK_3-DH5_Channel 78**



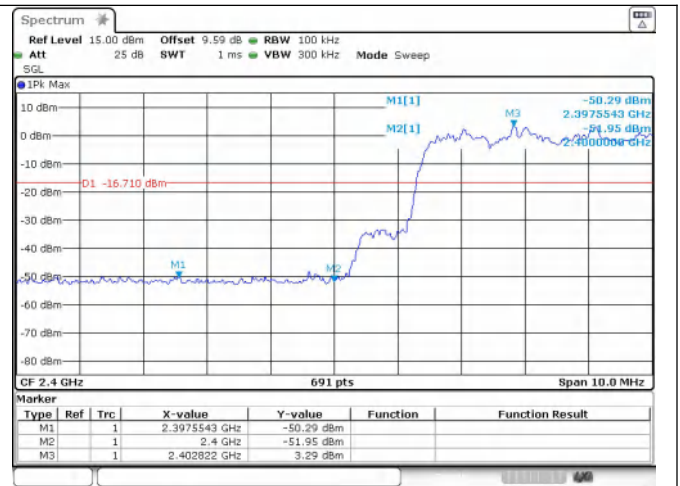
Date: 16.APR.2024 17:08:59

**Spurious Emission
8DPSK_3-DH5_Channel 78**



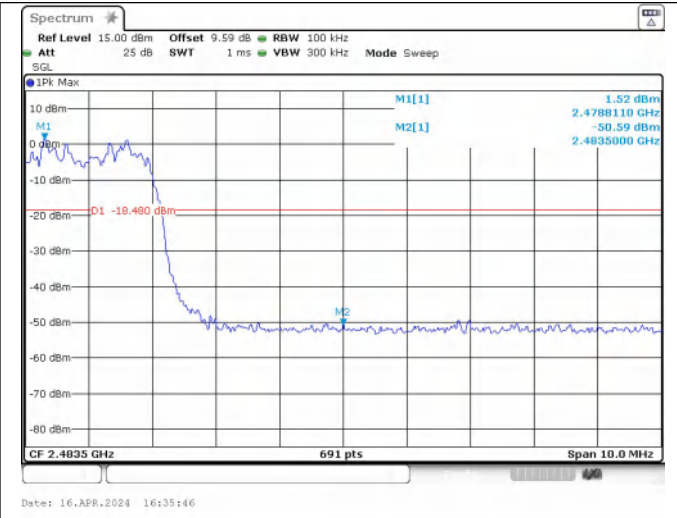
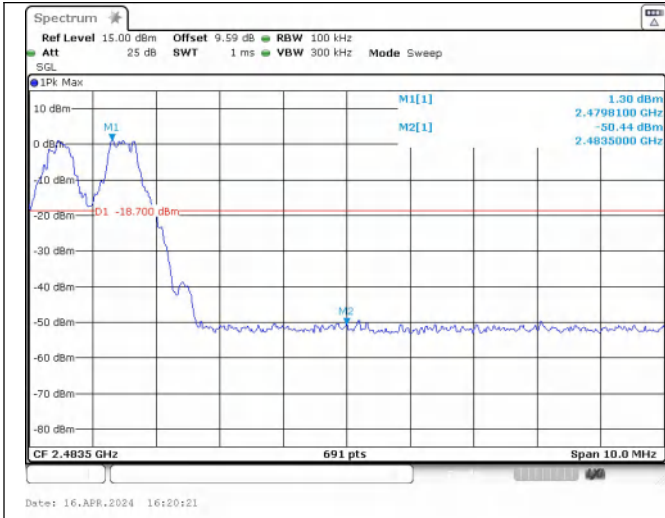
Date: 16.APR.2024 16:20:00

**Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping**



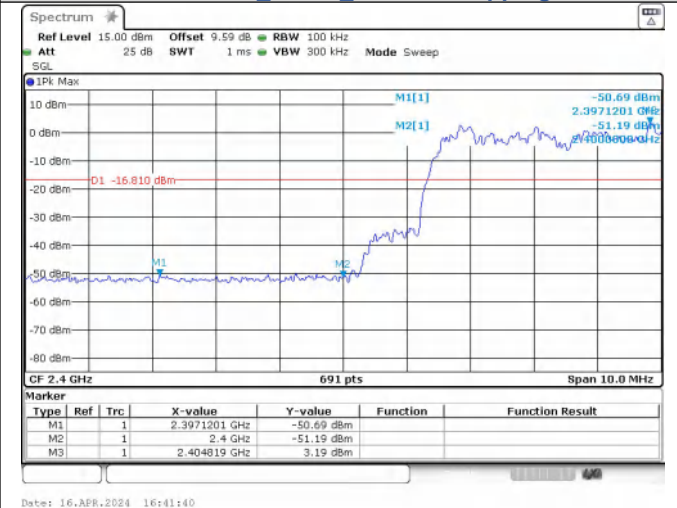
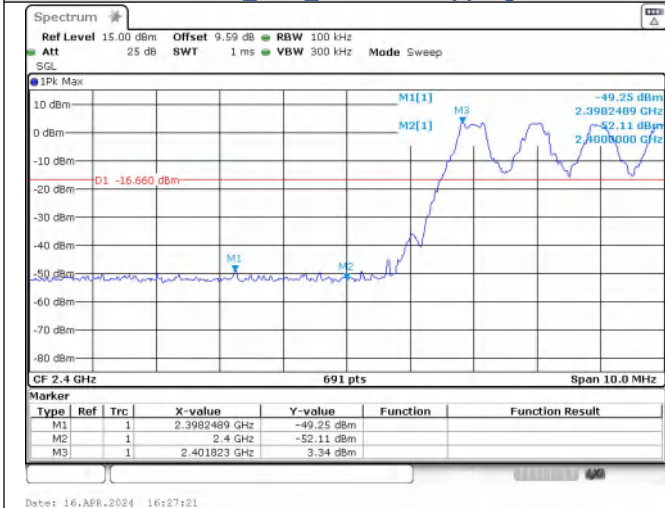
Date: 16.APR.2024 16:35:25

**Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping**



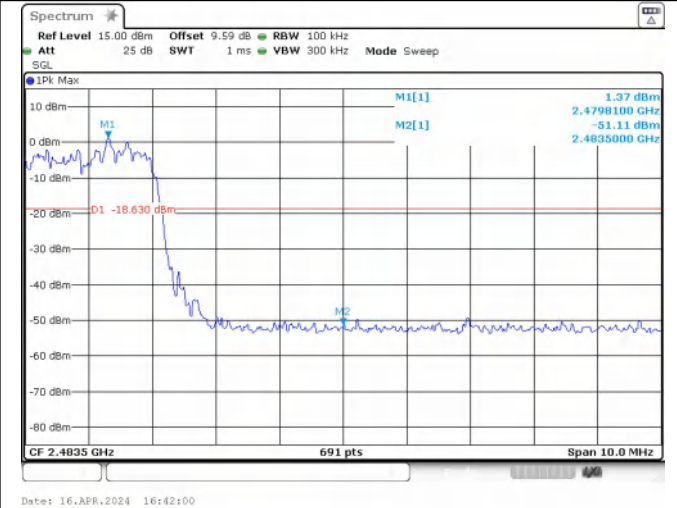
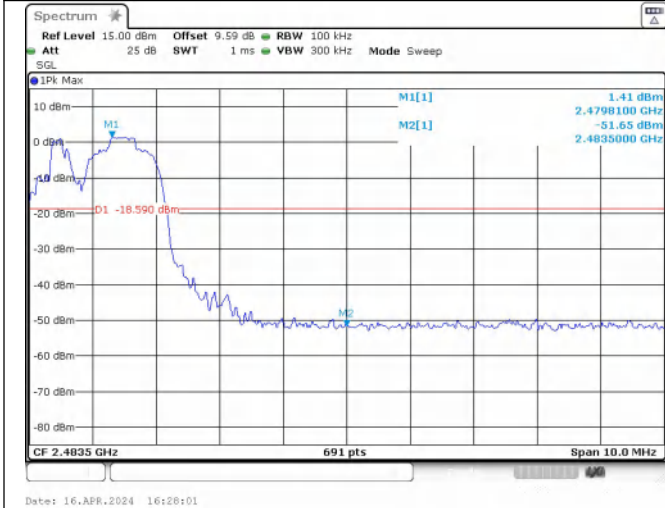
**Out of Band Emission(Right)
GFSK_DH5_Channel Hopping**

**Out of Band Emission(Right)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping**



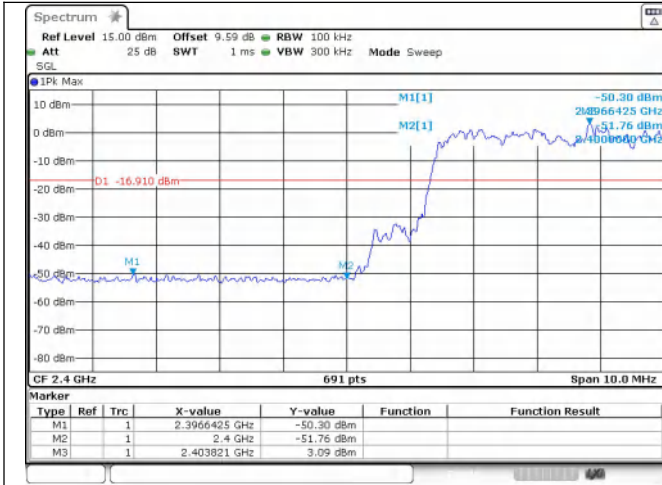
**Out of Band Emission(Left)
GFSK_DH5_Channel Hopping**

**Out of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping**

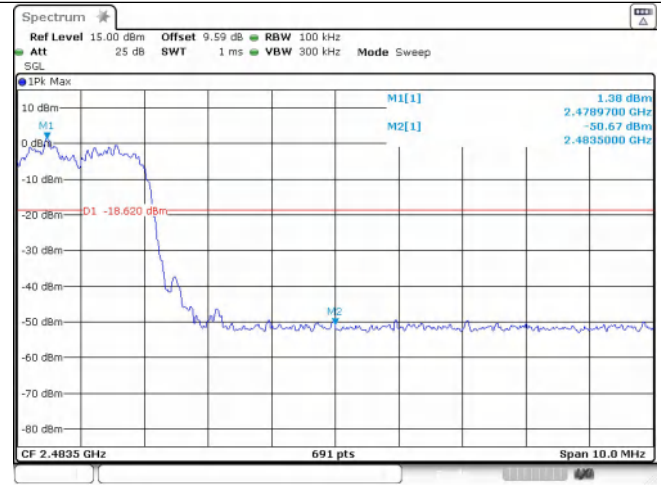


Out of Band Emission(Right)

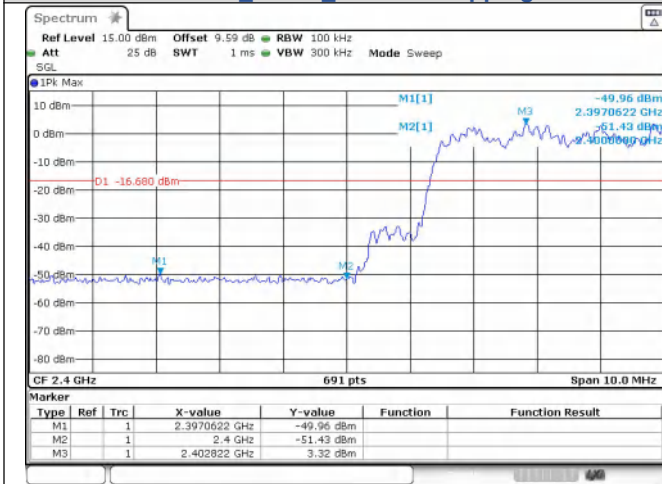
Out of Band Emission(Right)

GFSK_DH5_Channel Hopping
 $\pi/4$ DQPSK_2-DH5_Channel Hopping


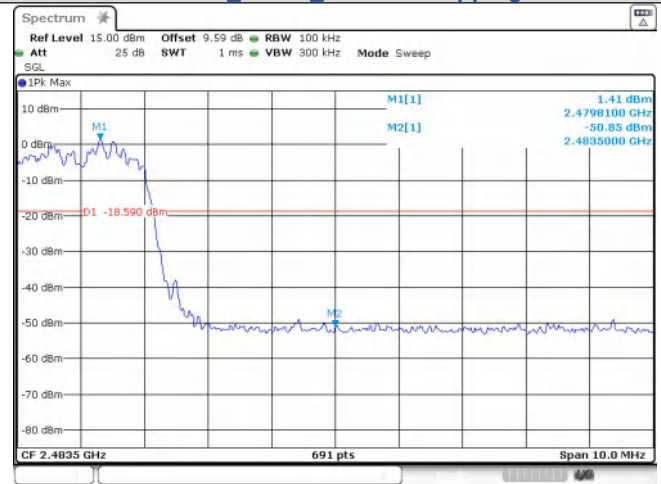
Date: 16.APR.2024 17:04:27



Date: 16.APR.2024 17:05:01

**Out Of Band Emission(Left)
8DPSK_3-DH5_Channel Hopping**
**Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping**


Date: 16.APR.2024 17:11:17



Date: 16.APR.2024 17:11:45

**Out Of Band Emission(Left)
8DPSK_3-DH5_Channel Hopping**
**Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping**

Right

Test Result

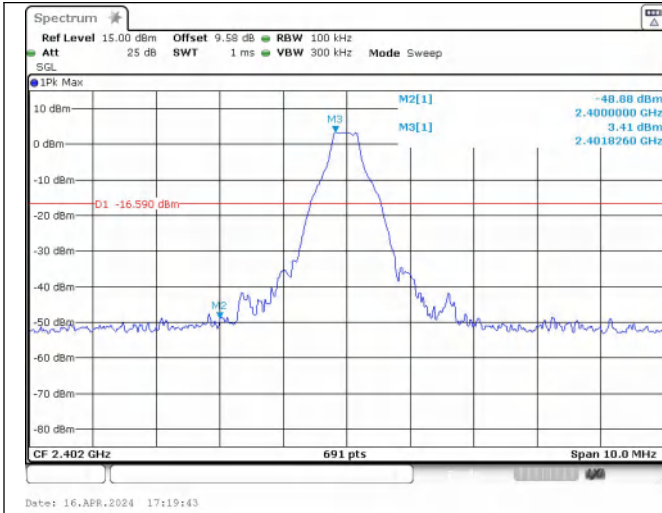
Non-Hopping

| Modulation | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---------------|---------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK | DH5 | 0 | 2400.00 | -48.883 | -16.59 | -32.293 | PASS |
| | | | 4803.85 | -27.216 | -16.59 | -10.626 | PASS |
| | | 39 | 4881.25 | -30.338 | -19.18 | -11.158 | PASS |
| | | 78 | 2483.50 | -51.954 | -18.55 | -33.404 | PASS |
| 4959.49 | -32.957 | | -18.55 | -14.407 | PASS | | |
| $\pi/4$ DQPSK | 2-DH5 | 0 | 2400.00 | -48.684 | -16.54 | -32.144 | PASS |
| | | | 4803.85 | -26.793 | -16.54 | -10.253 | PASS |
| | | 39 | 4881.25 | -29.606 | -19.2 | -10.406 | PASS |
| | | 78 | 2483.50 | -51.334 | -18.52 | -32.814 | PASS |
| 4959.49 | -33.745 | | -18.52 | -15.225 | PASS | | |
| 8DPSK | 3-DH5 | 0 | 2400.00 | -49.213 | -16.59 | -32.623 | PASS |
| | | | 4803.85 | -25.974 | -16.59 | -9.384 | PASS |
| | | 39 | 4882.09 | -33.074 | -19.1 | -13.974 | PASS |
| | | 78 | 2483.50 | -51.022 | -18.56 | -32.462 | PASS |
| 4960.33 | -33.684 | | -18.56 | -15.124 | PASS | | |

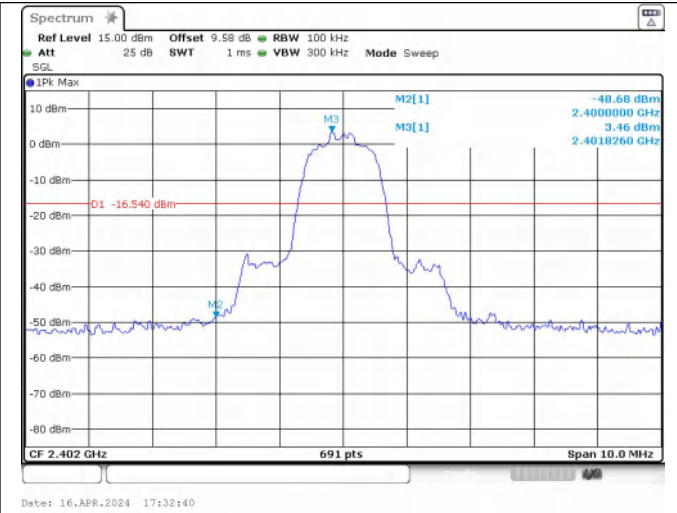
Hopping

| Modulation | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK | DH5 | Hopping | 2395.28 | -50.451 | -16.6 | -33.851 | PASS |
| | | | 2400.00 | -52.523 | -16.6 | -35.923 | PASS |
| | | | 2483.50 | -51.855 | -18.6 | -33.255 | PASS |
| | | | 2397.99 | -50.796 | -16.84 | -33.956 | PASS |
| | | | 2400.00 | -52.658 | -16.84 | -35.818 | PASS |
| | | | 2483.50 | -51.999 | -18.59 | -33.409 | PASS |
| $\pi/4$ DQPSK | 2-DH5 | | 2398.35 | -50.027 | -16.94 | -33.087 | PASS |
| | | | 2400.00 | -52.432 | -16.94 | -35.492 | PASS |
| | | | 2483.50 | -52.596 | -18.64 | -33.956 | PASS |
| | | | 2398.67 | -50.530 | -18.6 | -31.930 | PASS |
| | | | 2400.00 | -53.259 | -18.6 | -34.659 | PASS |
| | | | 2483.50 | -51.377 | -18.57 | -32.807 | PASS |
| 8DPSK | 3-DH5 | 2397.70 | -50.570 | -17.32 | -33.250 | PASS | |
| | | 2400.00 | -50.822 | -17.32 | -33.502 | PASS | |
| | | 2483.50 | -51.906 | -18.62 | -33.286 | PASS | |
| | | 2398.73 | -50.476 | -16.92 | -33.556 | PASS | |
| | | 2400.00 | -52.966 | -16.92 | -36.046 | PASS | |
| | | 2483.50 | -51.238 | -19.62 | -31.618 | PASS | |

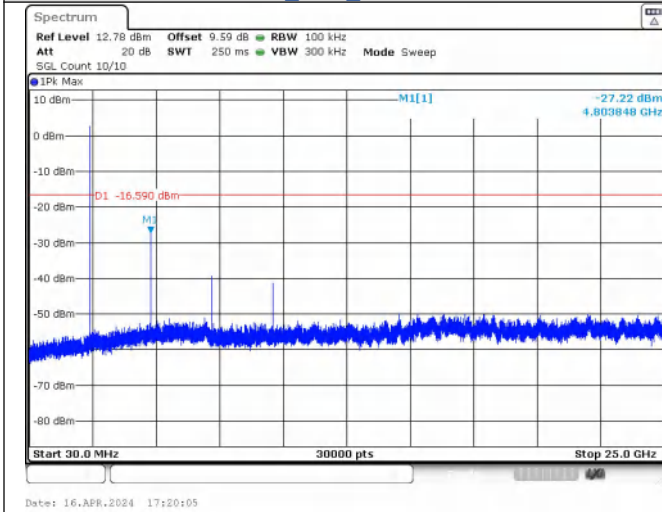
Test Graphs



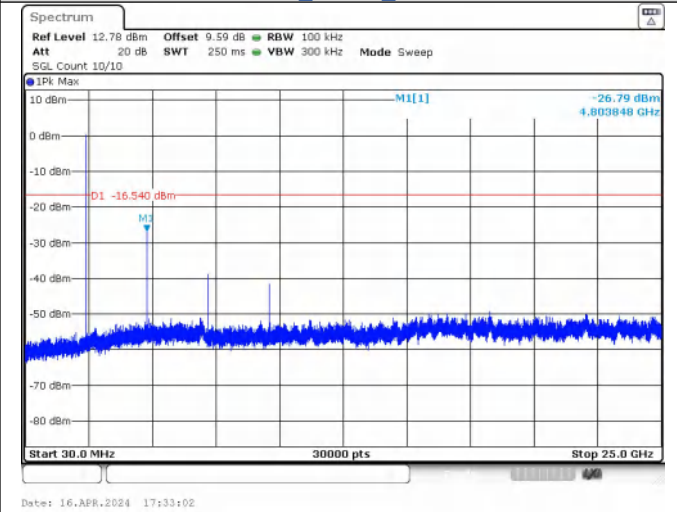
**Out Of Band Emission
GFSK_DH5_Channel 0**



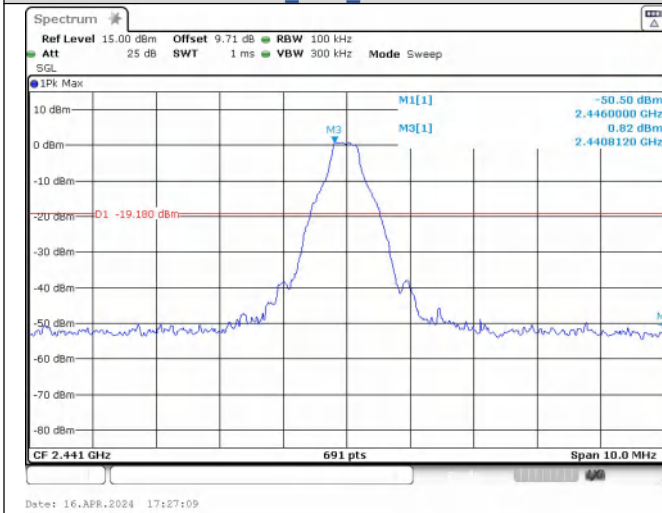
**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0**



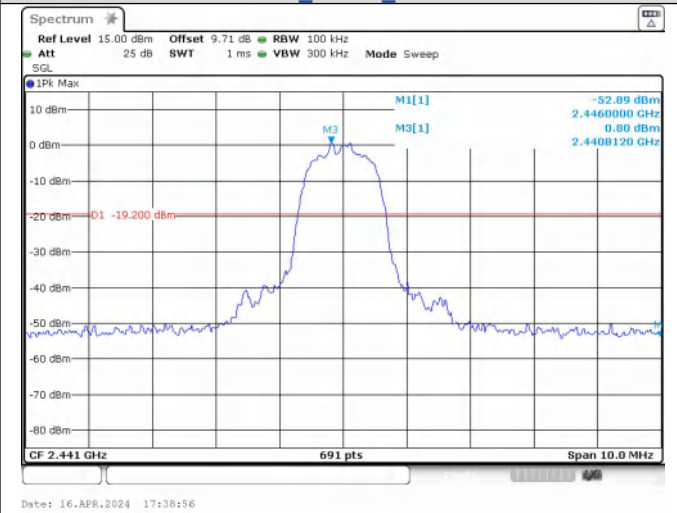
**Spurious Emission
GFSK_DH5_Channel 0**



**Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0**

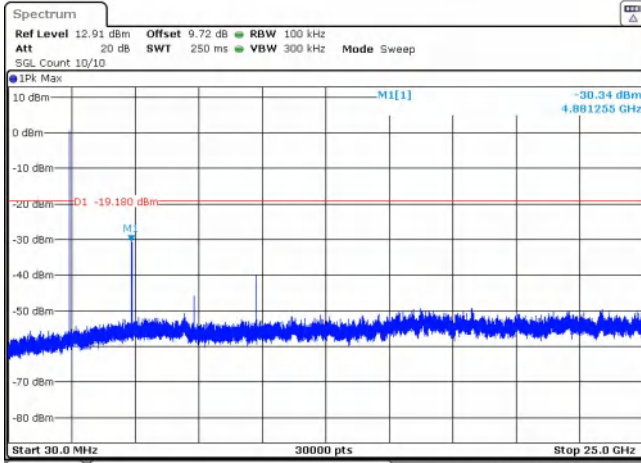


Out Of Band Emission



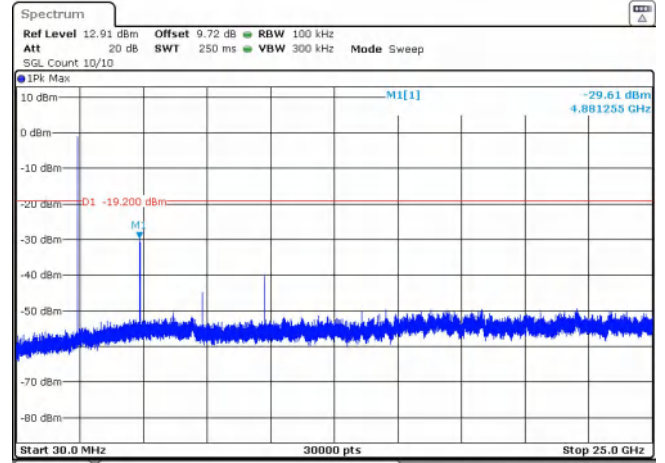
Out Of Band Emission

GFSK_DH5_Channel 39



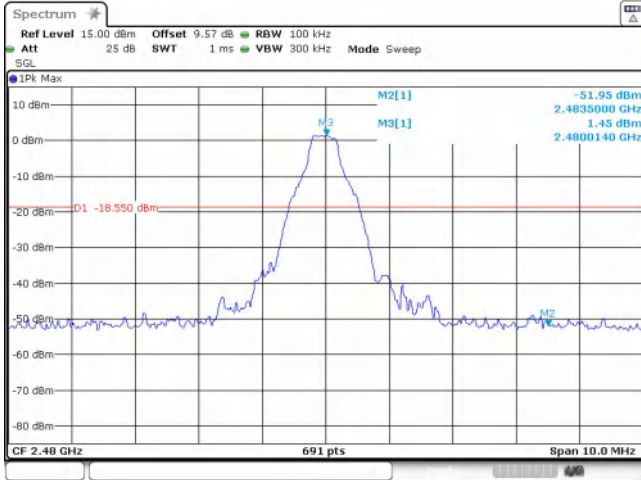
Date: 16.APR.2024 17:27:31

$\pi/4$ DQPSK_2-DH5_Channel 39



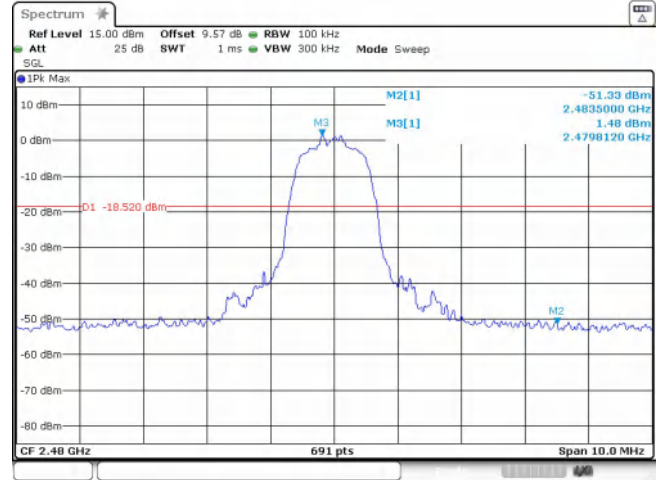
Date: 16.APR.2024 17:39:18

**Spurious Emissions
GFSK_DH5_Channel 39**



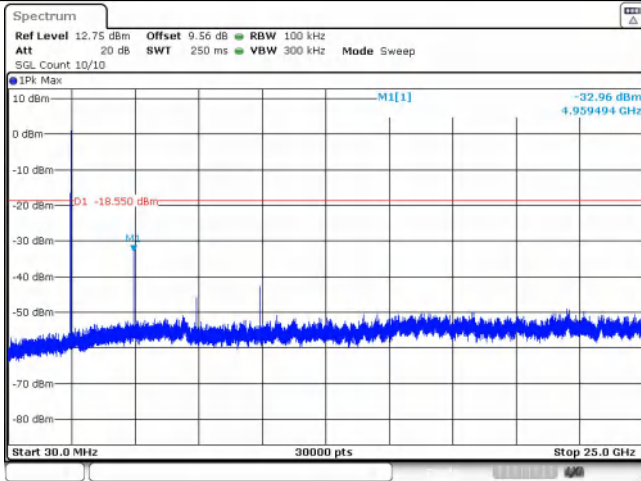
Date: 16.APR.2024 17:29:26

**Spurious Emissions
 $\pi/4$ DQPSK_2-DH5_Channel 39**



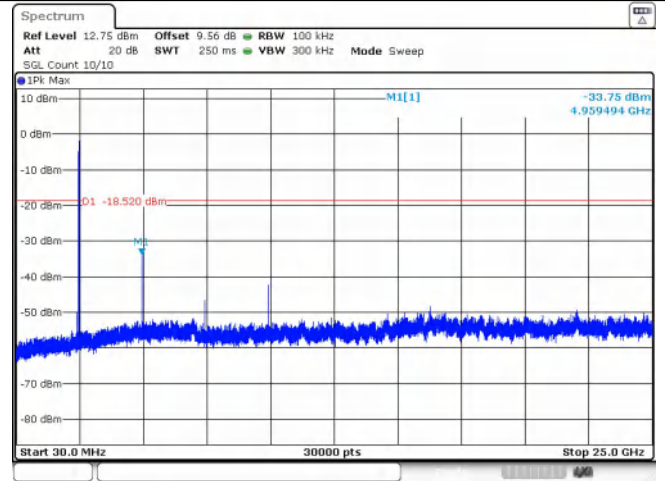
Date: 16.APR.2024 17:41:04

**Out Of Band Emission
GFSK_DH5_Channel 78**



Date: 16.APR.2024 17:29:48

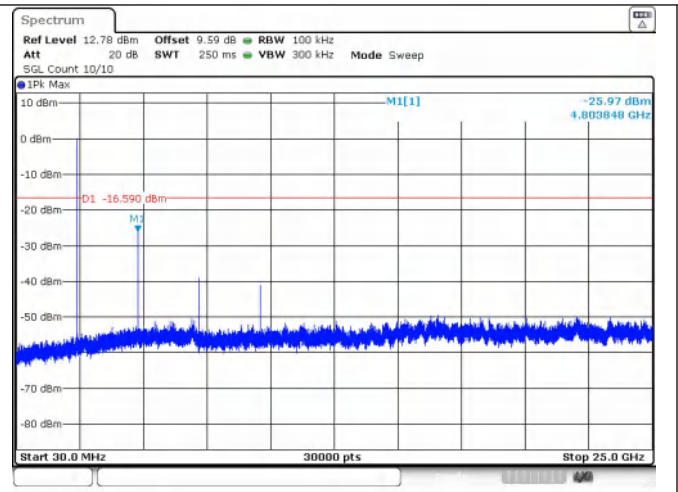
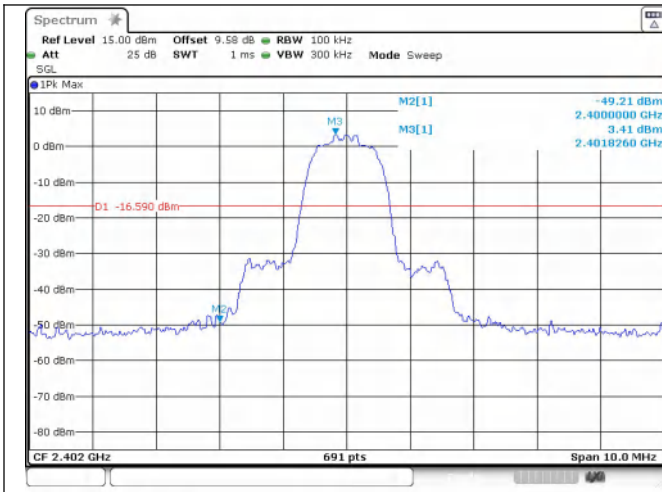
**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78**



Date: 16.APR.2024 17:41:26

**Spurious Emission
GFSK_DH5_Channel 78**

**Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78**

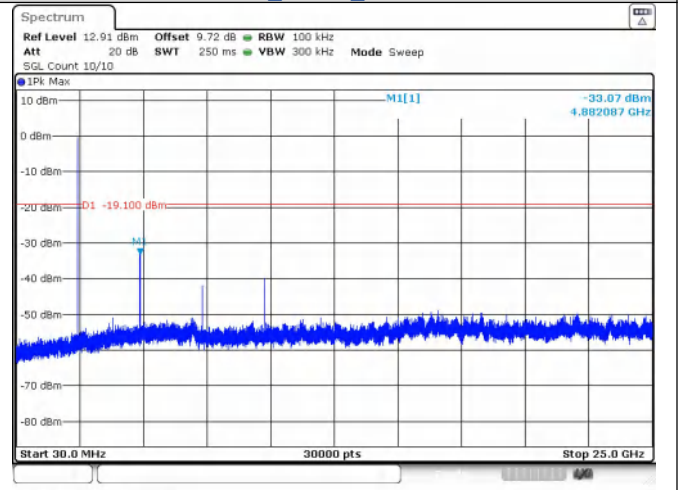
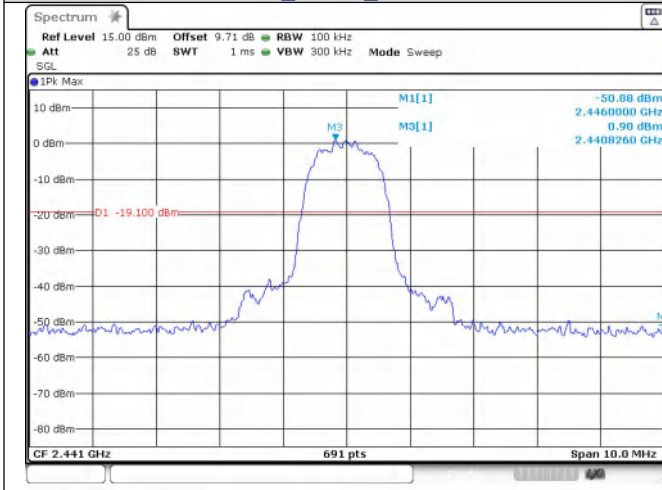


Date: 16.APR.2024 17:44:27

Date: 16.APR.2024 17:44:49

**Out Of Band Emission
8DPSK_3-DH5_Channel 0**

**Spurious Emission
8DPSK_3-DH5_Channel 0**

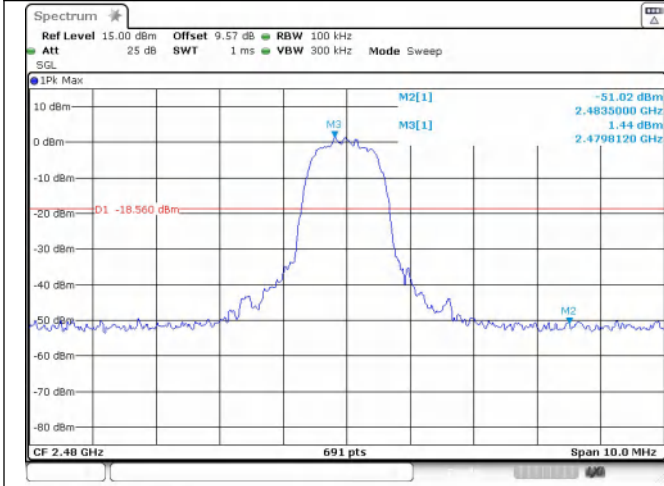


Date: 16.APR.2024 17:52:19

Date: 16.APR.2024 17:52:41

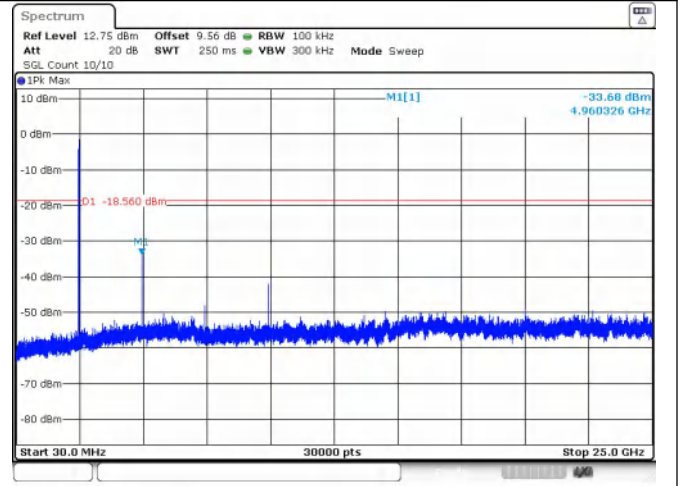
**Out Of Band Emission
8DPSK_3-DH5_Channel 39**

**Spurious Emissions
8DPSK_3-DH5_Channel 39**



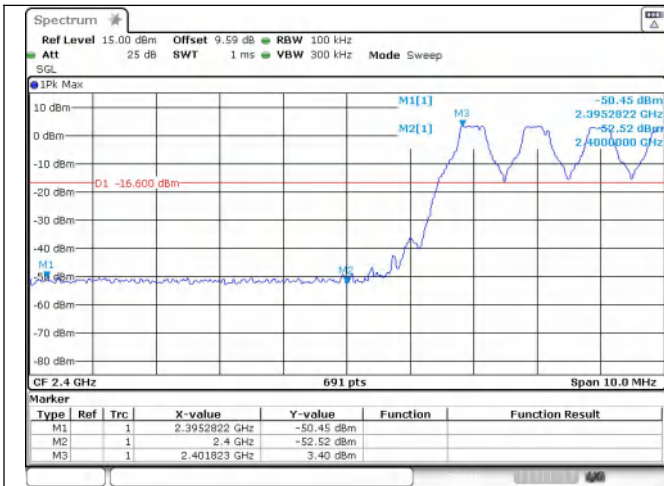
Date: 16.APR.2024 17:55:06

**Out Of Band Emission
8DPSK_3-DH5_Channel 78**



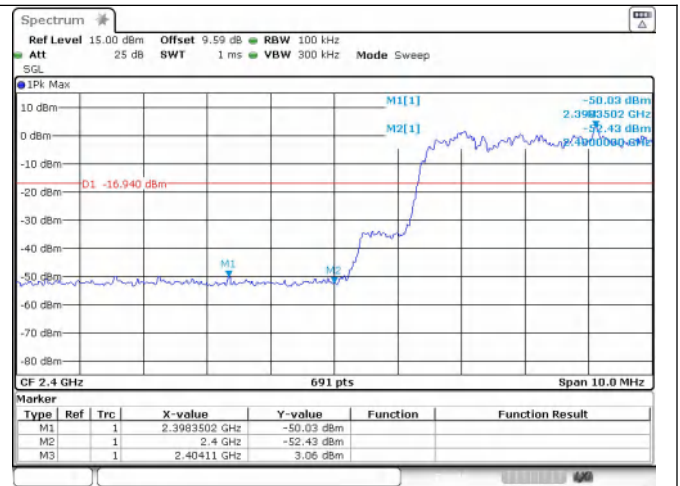
Date: 16.APR.2024 17:55:28

**Spurious Emission
8DPSK_3-DH5_Channel 78**



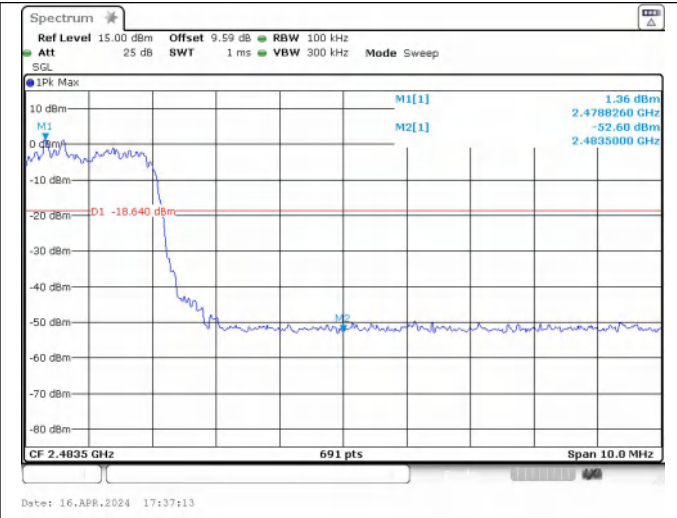
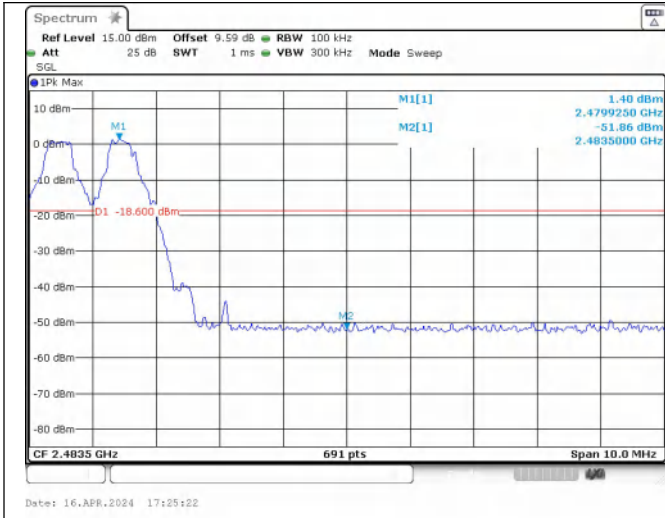
Date: 16.APR.2024 17:24:52

**Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping**



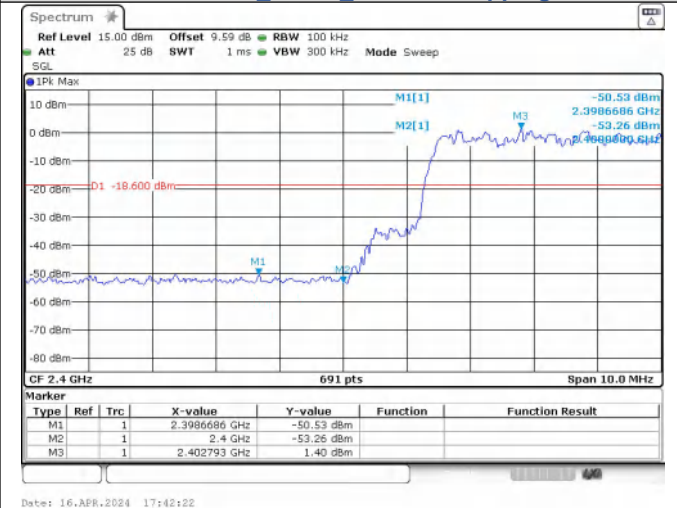
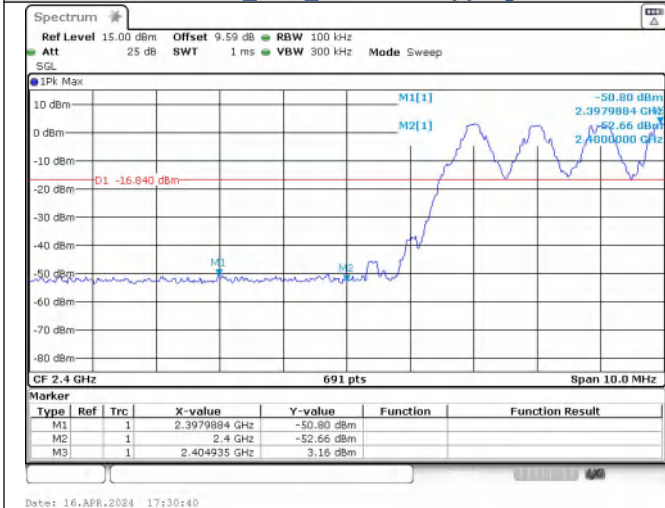
Date: 16.APR.2024 17:36:43

**Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping**



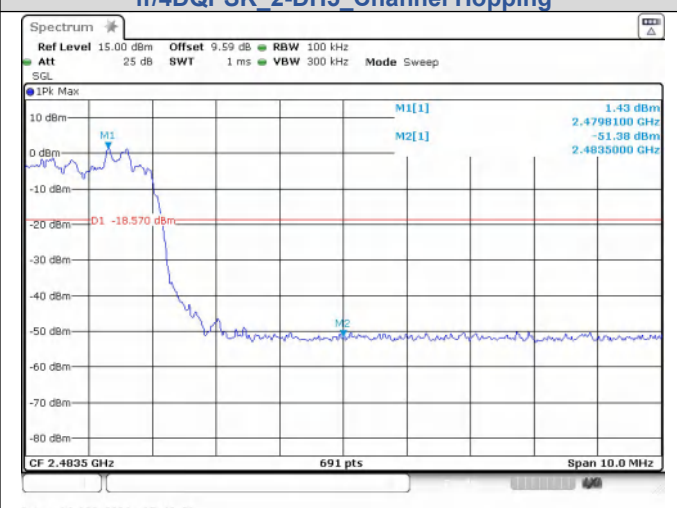
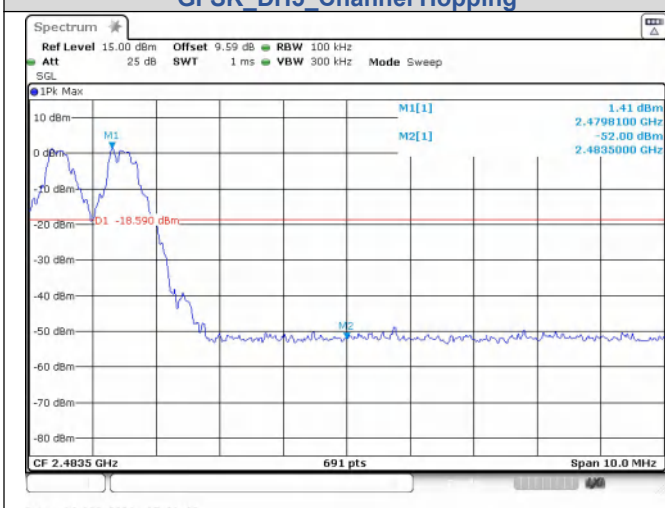
Out of Band Emission(Right) GFSK_DH5_Channel Hopping

Out of Band Emission(Right) $\pi/4$ DQPSK_2-DH5_Channel Hopping



Out of Band Emission(Left) 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

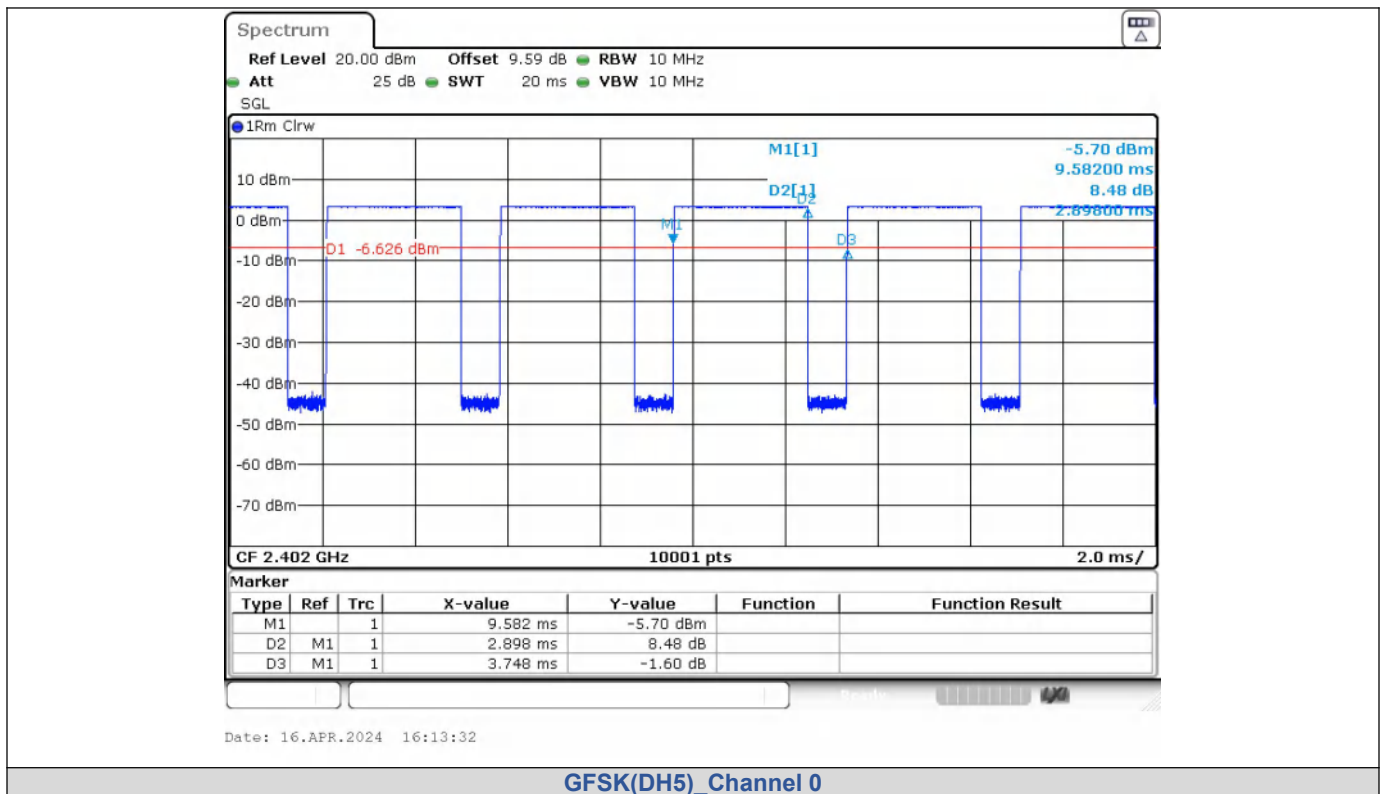
Duty Cycle

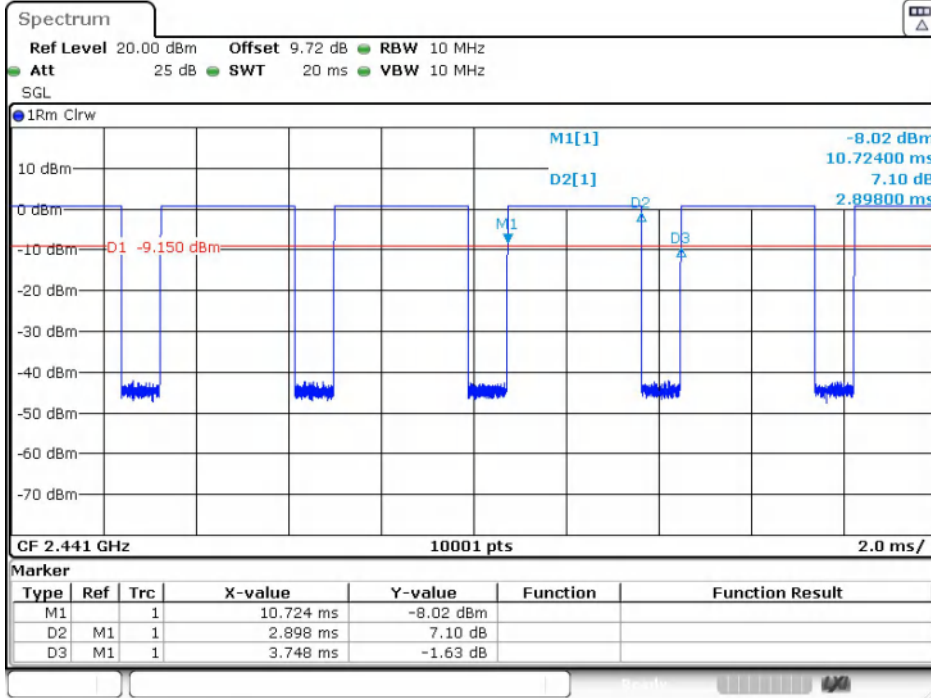
Test Result

Left

| Modulation | Packets | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T |
|---------------|---------|---------|--------------|-------------|----------------|---------------------|------------------------|------|
| GFSK | DH5 | 0 | 2.898 | 3.748 | 77.32 | 0.7732 | 1.1171 | 0.35 |
| | | 39 | 2.898 | 3.748 | 77.32 | 0.7732 | 1.1171 | 0.35 |
| | | 78 | 2.898 | 3.748 | 77.32 | 0.7732 | 1.1171 | 0.35 |
| $\pi/4$ DQPSK | 2-DH5 | 0 | 2.904 | 3.748 | 77.48 | 0.7748 | 1.1081 | 0.34 |
| | | 39 | 2.904 | 3.748 | 77.48 | 0.7748 | 1.1081 | 0.34 |
| | | 78 | 2.904 | 3.748 | 77.48 | 0.7748 | 1.1081 | 0.34 |
| 8DPSK | 3-DH5 | 0 | 2.906 | 3.748 | 77.53 | 0.7753 | 1.1053 | 0.34 |
| | | 39 | 2.904 | 3.748 | 77.48 | 0.7748 | 1.1081 | 0.34 |
| | | 78 | 2.906 | 3.748 | 77.53 | 0.7753 | 1.1053 | 0.34 |

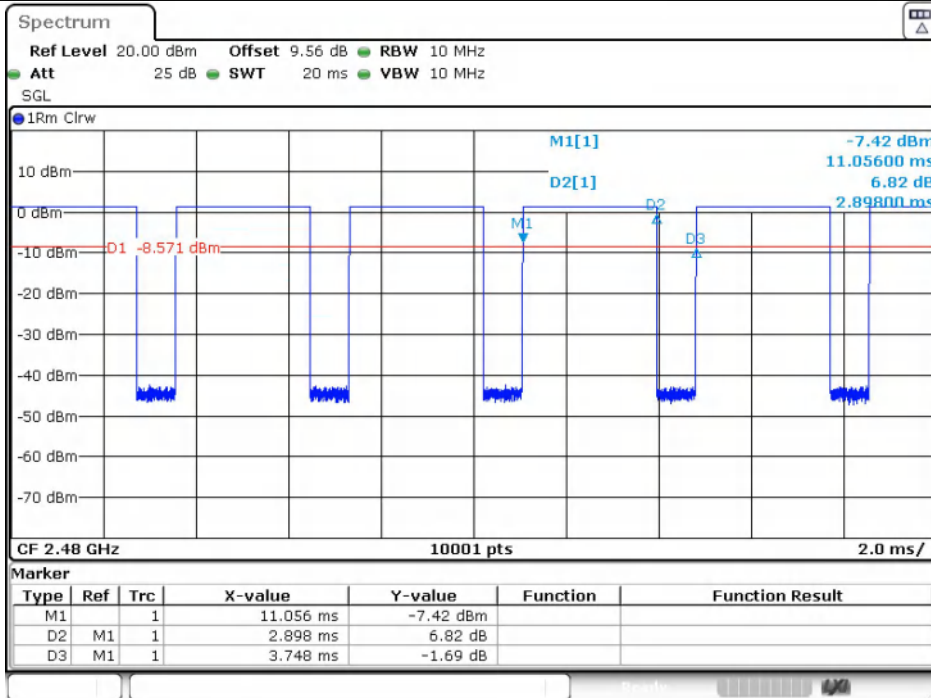
Test Graphs





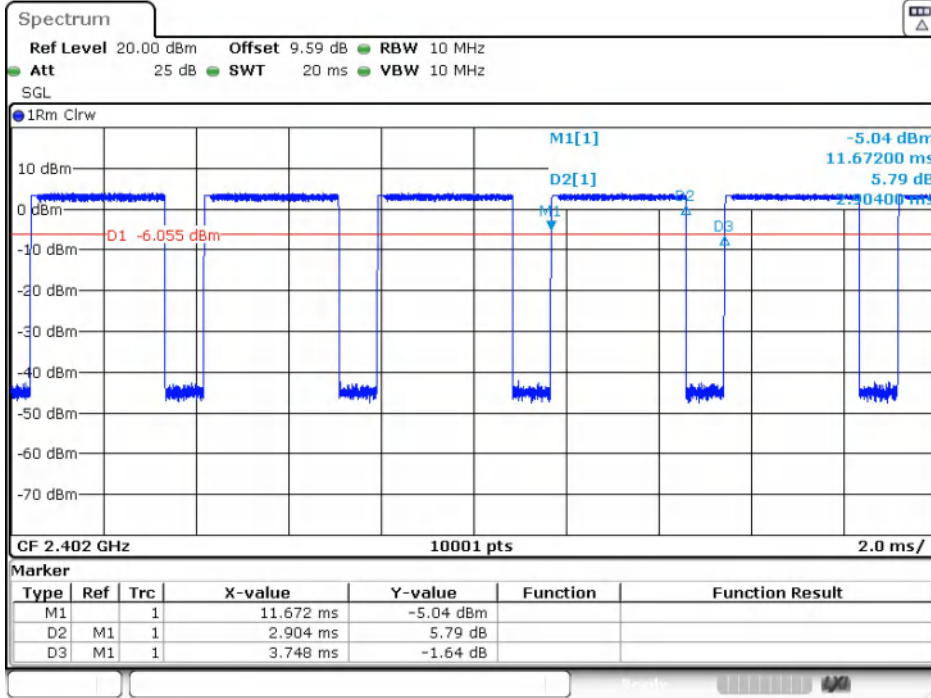
Date: 16.APR.2024 16:21:54

GFSK(DH5)_Channel 39



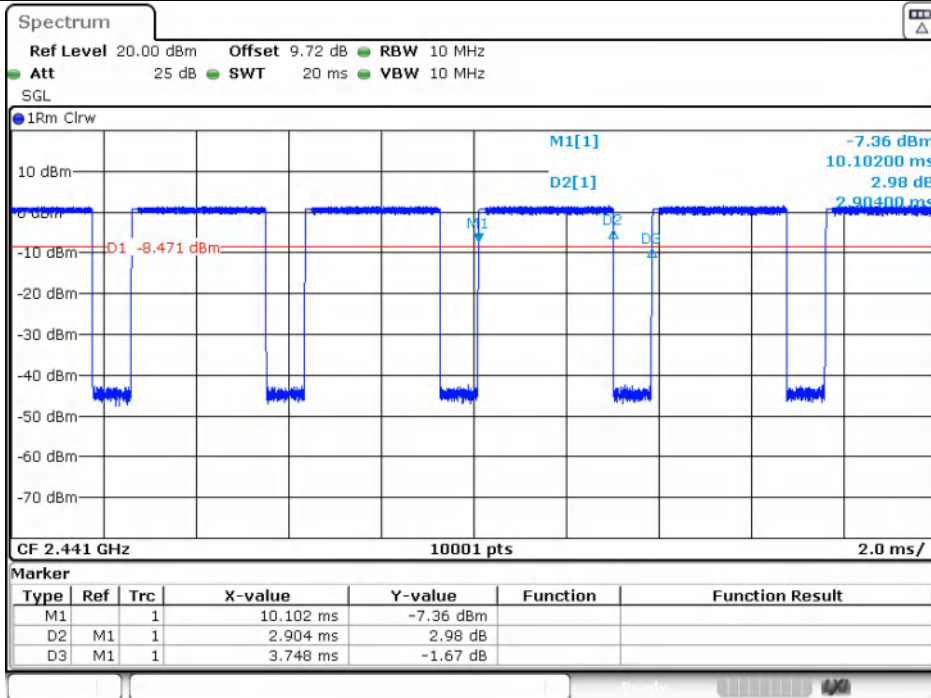
Date: 16.APR.2024 16:24:06

GFSK(DH5)_Channel 78



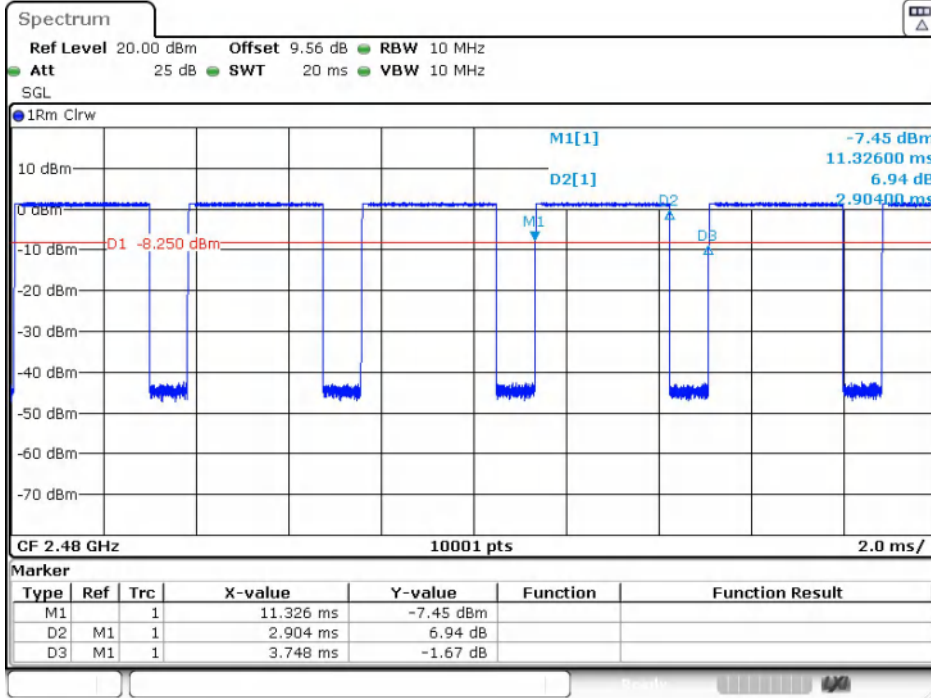
Date: 16.APR.2024 16:28:43

$\pi/4$ DQPSK(2-DH5)_Channel 0



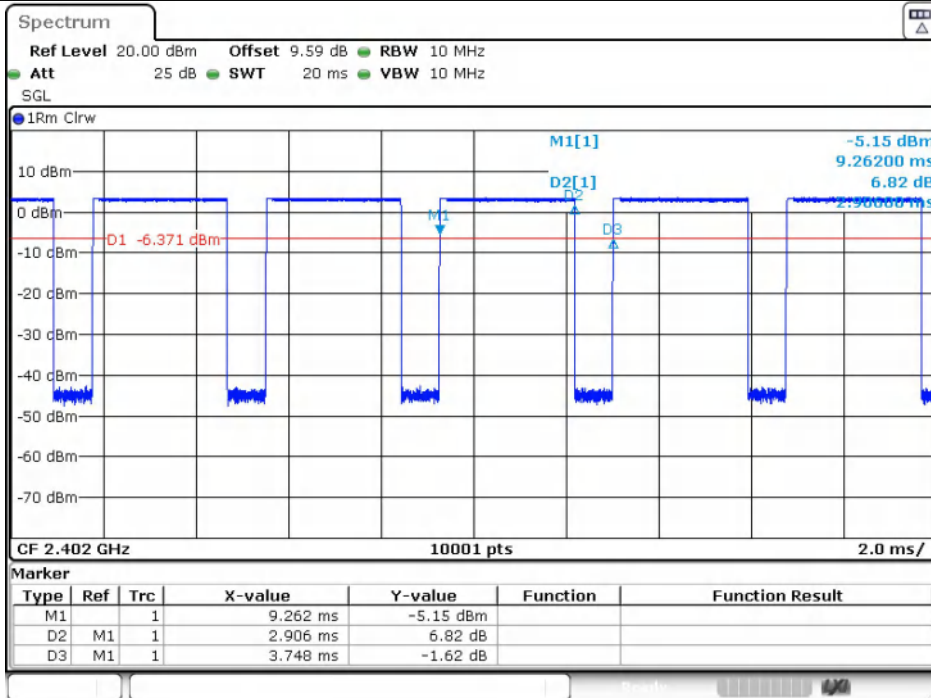
Date: 16.APR.2024 16:36:52

$\pi/4$ DQPSK(2-DH5)_Channel 39



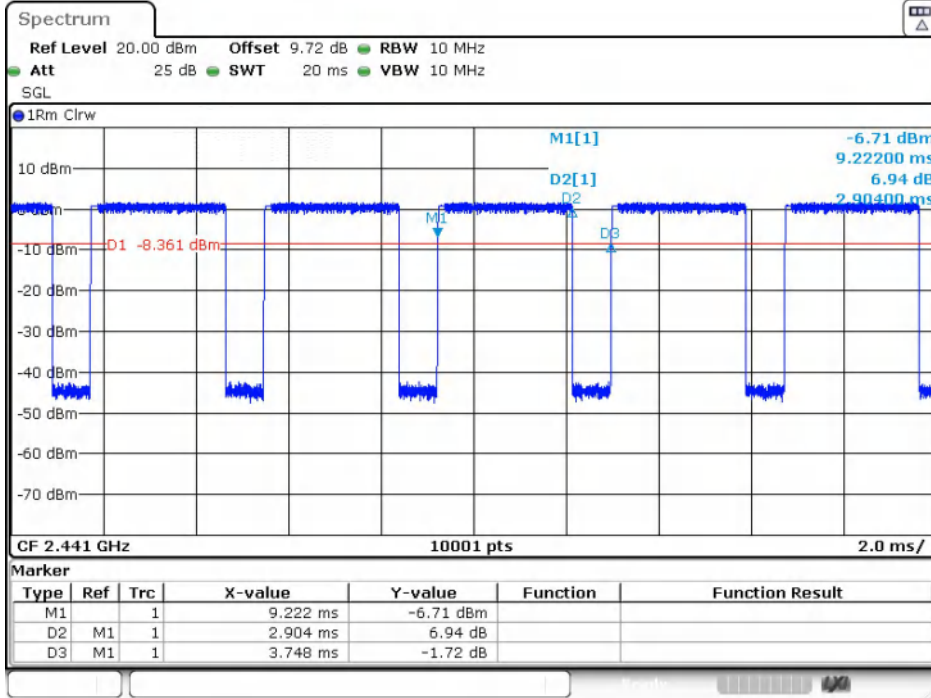
Date: 16.APR.2024 16:38:55

$\pi/4$ DQPSK(2-DH5)_Channel 78



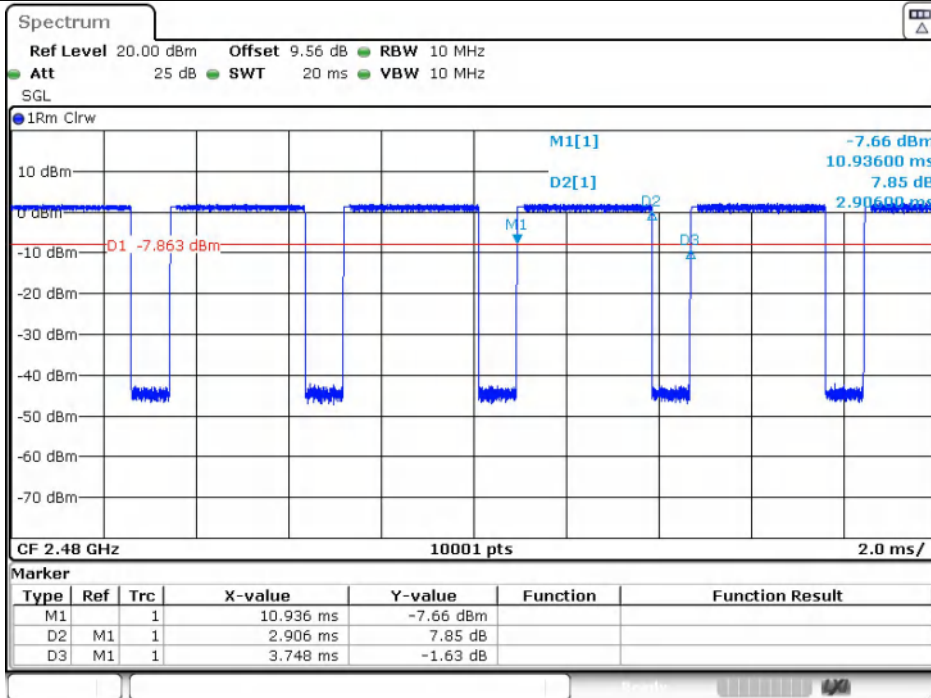
Date: 16.APR.2024 16:58:49

8DPSK(3-DH5)_Channel 0



Date: 16.APR.2024 17:05:37

8DPSK(3-DH5)_Channel 39



Date: 16.APR.2024 17:07:37

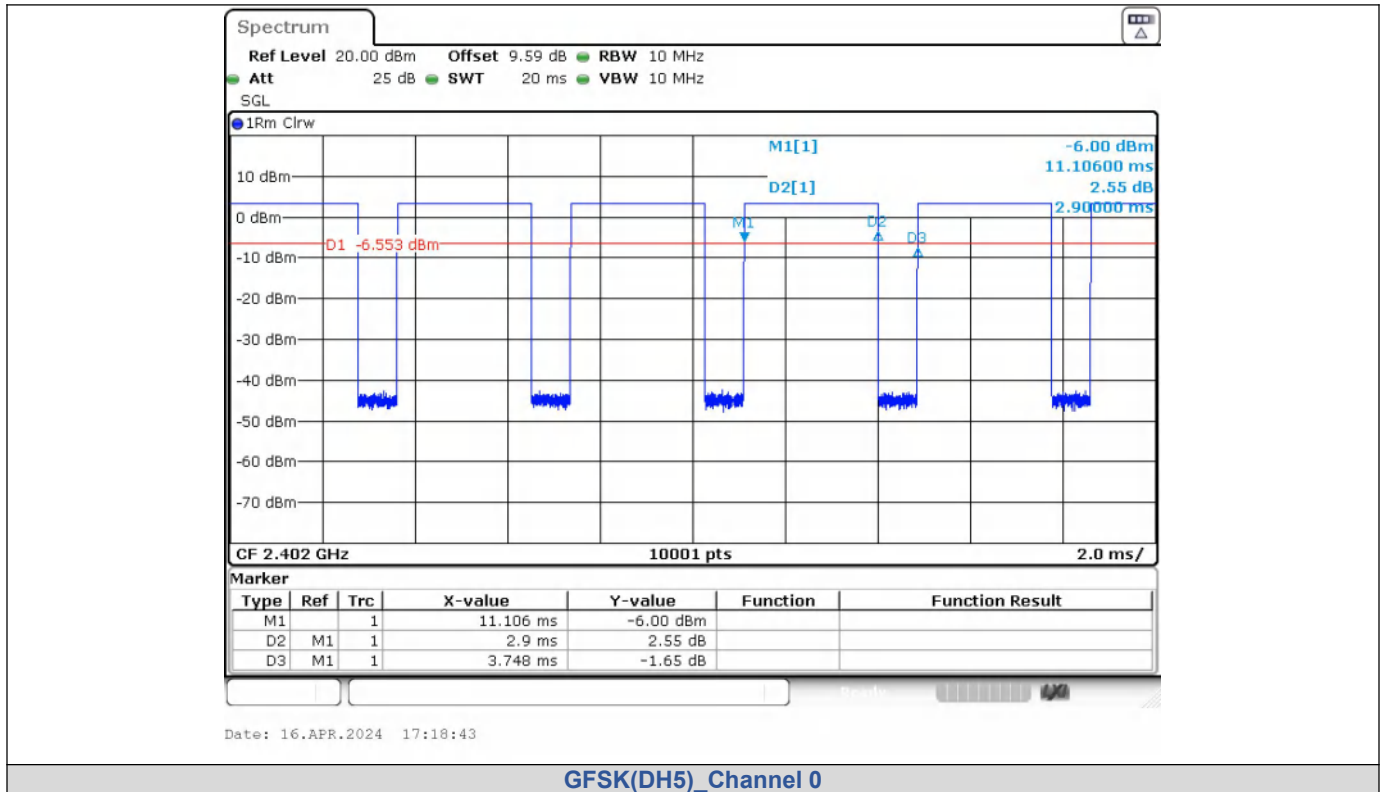
8DPSK(3-DH5)_Channel 78

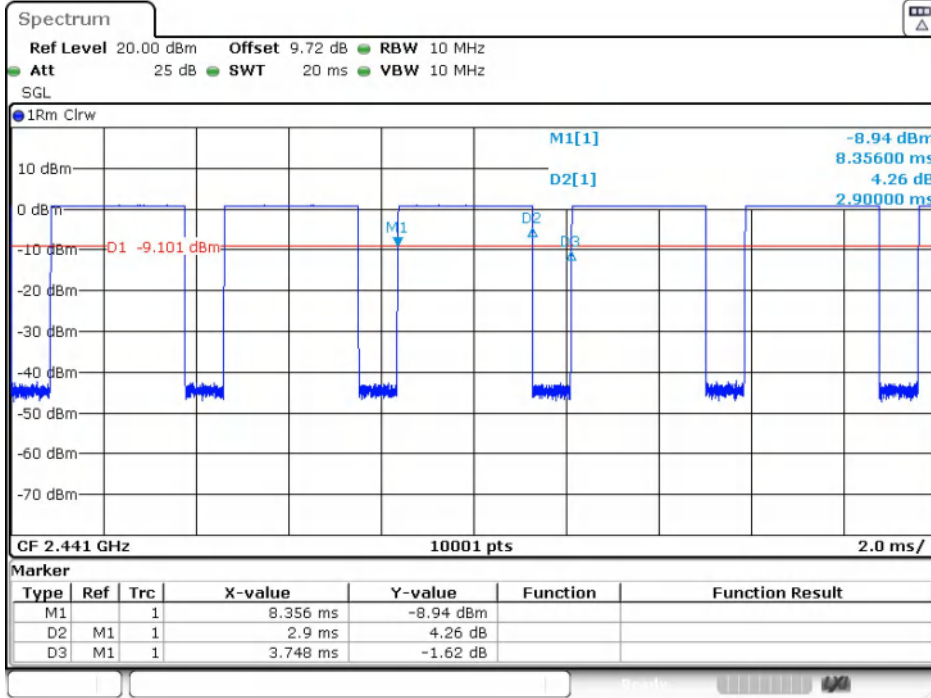
Right

Test Result

| Modulation | Packets | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T |
|---------------|---------|---------|--------------|-------------|----------------|---------------------|------------------------|------|
| GFSK | DH5 | 0 | 2.900 | 3.748 | 77.37 | 0.7737 | 1.1143 | 0.34 |
| | | 39 | 2.900 | 3.748 | 77.37 | 0.7737 | 1.1143 | 0.34 |
| | | 78 | 2.898 | 3.748 | 77.32 | 0.7732 | 1.1171 | 0.34 |
| $\pi/4$ DQPSK | 2-DH5 | 0 | 2.904 | 3.748 | 77.48 | 0.7748 | 1.1081 | 0.34 |
| | | 39 | 2.904 | 3.748 | 77.48 | 0.7748 | 1.1081 | 0.34 |
| | | 78 | 2.902 | 3.748 | 77.43 | 0.7743 | 1.1109 | 0.34 |
| 8DPSK | 3-DH5 | 0 | 2.906 | 3.748 | 77.53 | 0.7753 | 1.1053 | 0.34 |
| | | 39 | 2.906 | 3.748 | 77.53 | 0.7753 | 1.1053 | 0.34 |
| | | 78 | 2.906 | 3.748 | 77.53 | 0.7753 | 1.1053 | 0.34 |

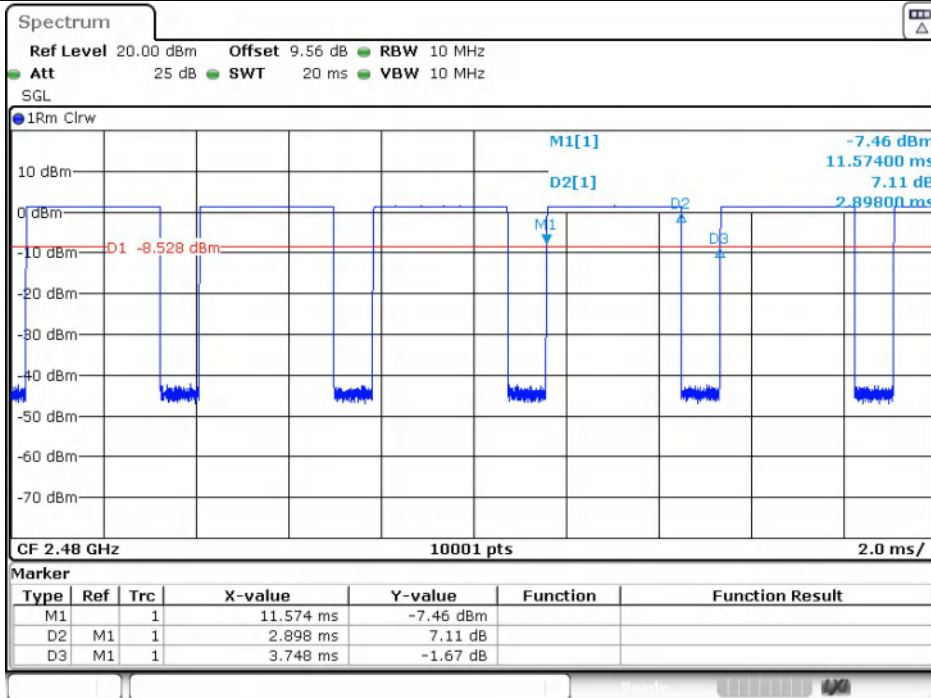
Test Graphs





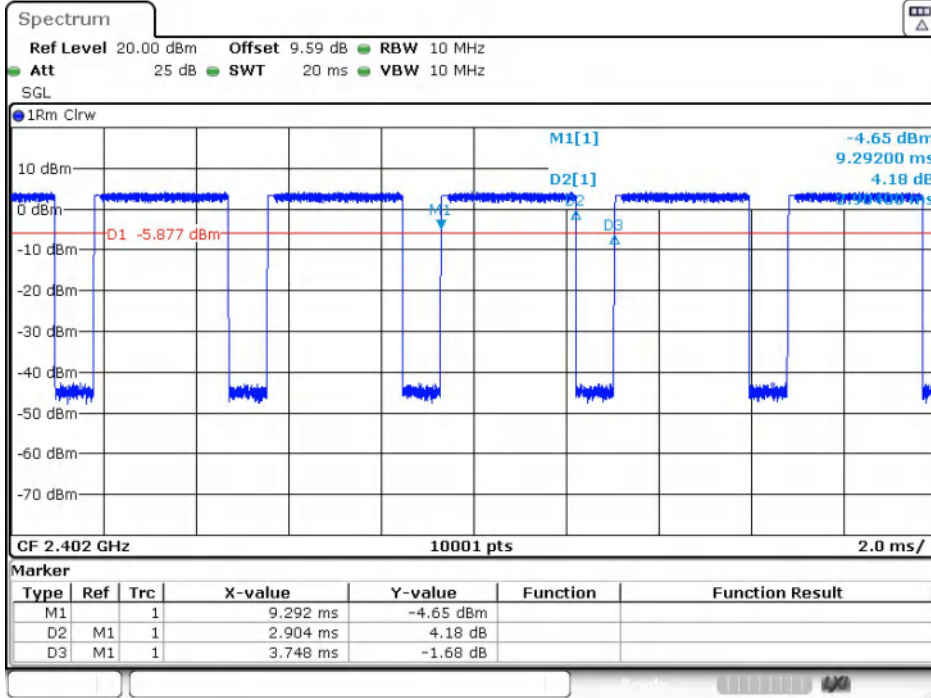
Date: 16.APR.2024 17:26:03

GFSK(DH5)_Channel 39



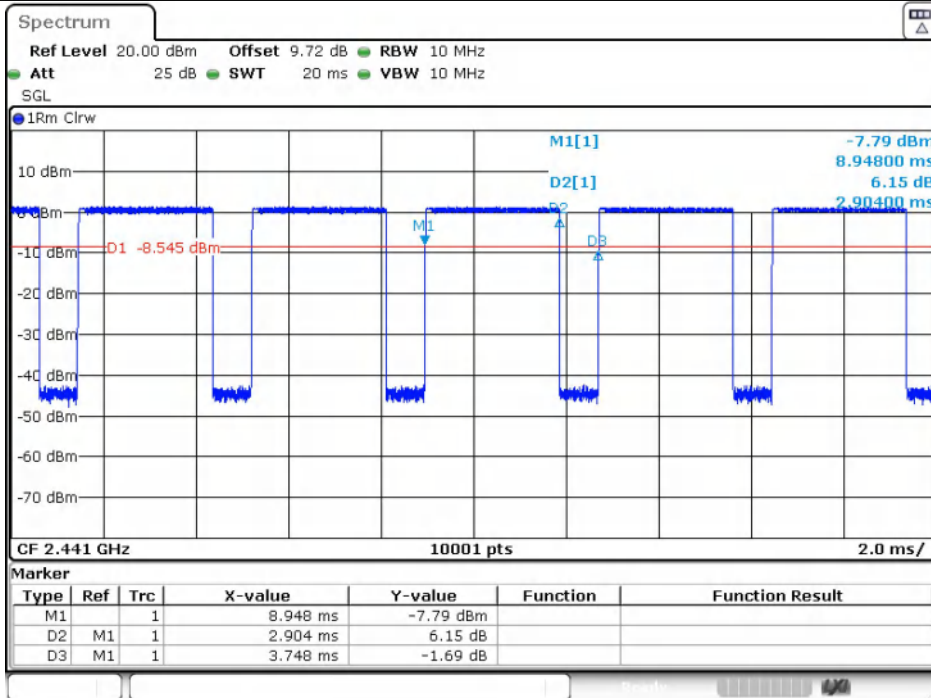
Date: 16.APR.2024 17:28:16

GFSK(DH5)_Channel 78



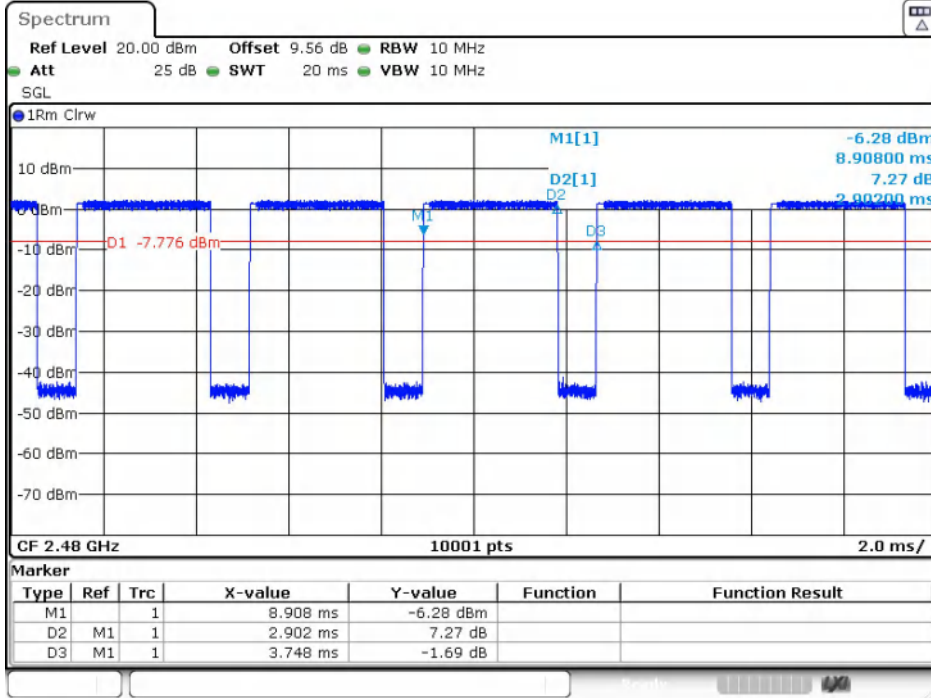
Date: 16.APR.2024 17:31:40

$\pi/4$ DQPSK(2-DH5)_Channel 0



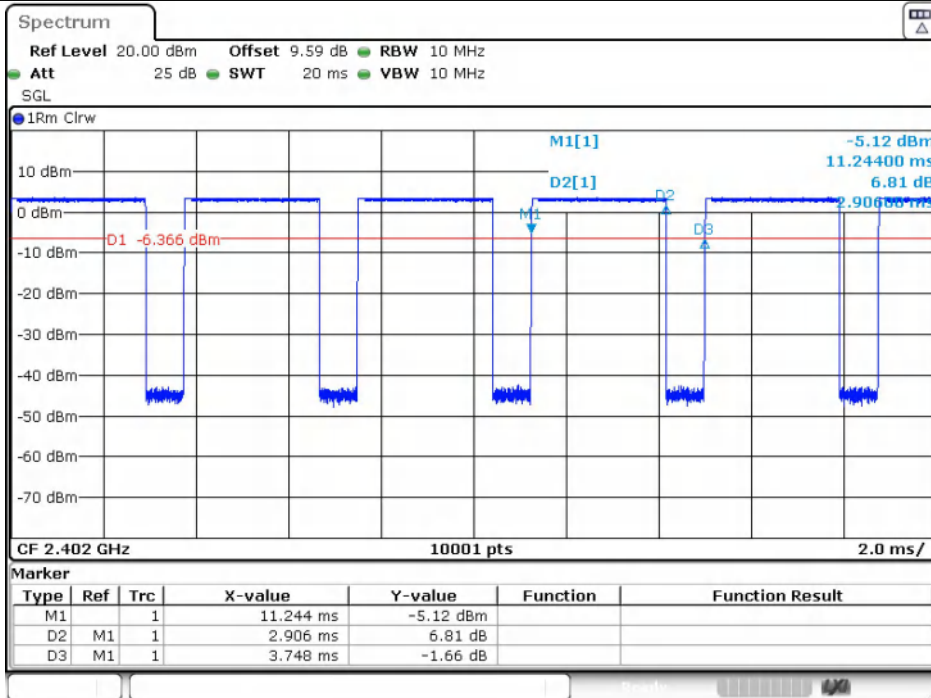
Date: 16.APR.2024 17:37:50

$\pi/4$ DQPSK(2-DH5)_Channel 39



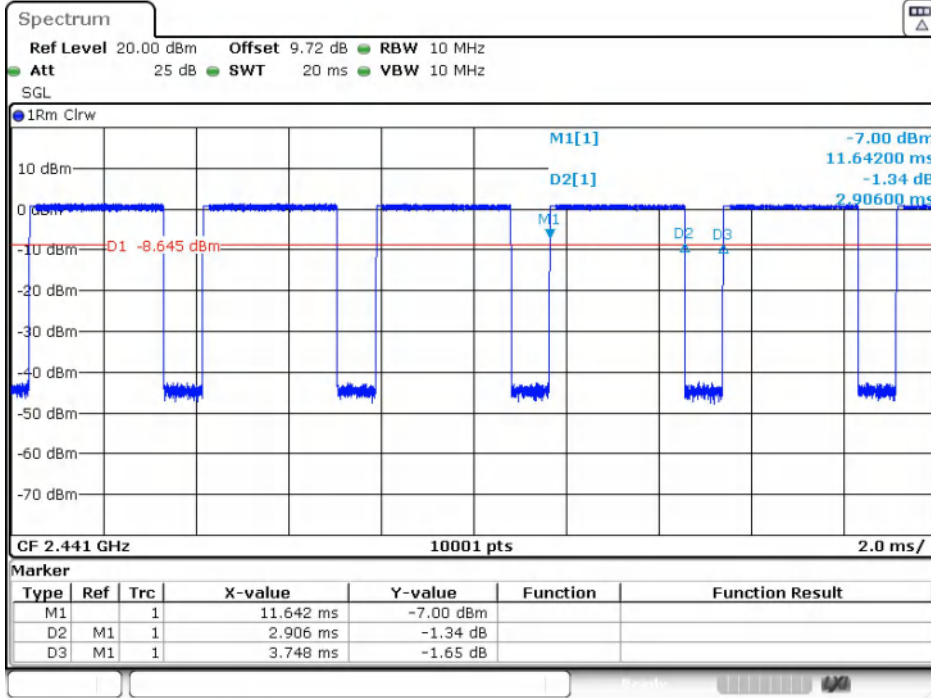
Date: 16.APR.2024 17:39:53

$\pi/4$ DQPSK(2-DH5)_Channel 78



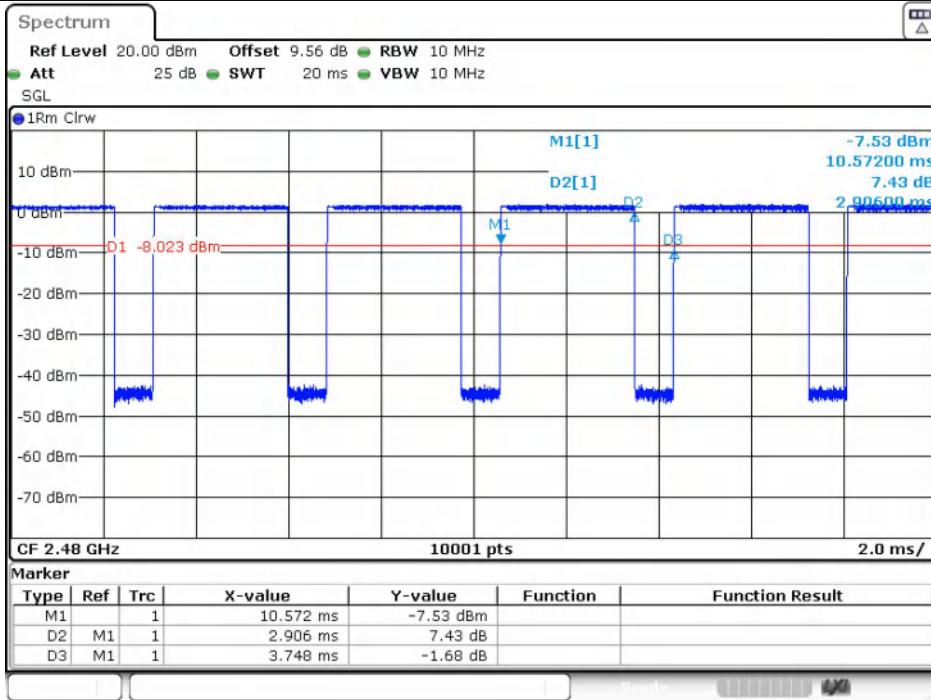
Date: 16.APR.2024 17:43:27

8DPSK(3-DH5)_Channel 0



Date: 16.APR.2024 17:51:14

8DPSK(3-DH5)_Channel 39



Date: 16.APR.2024 17:53:55

8DPSK(3-DH5)_Channel 78

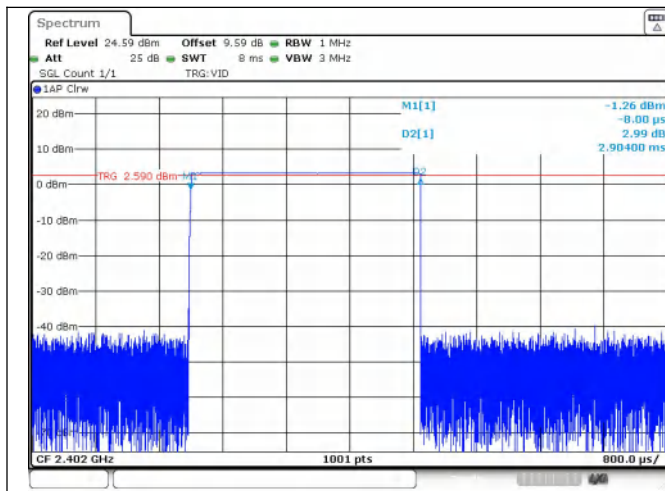
Dwell Time

Test Result

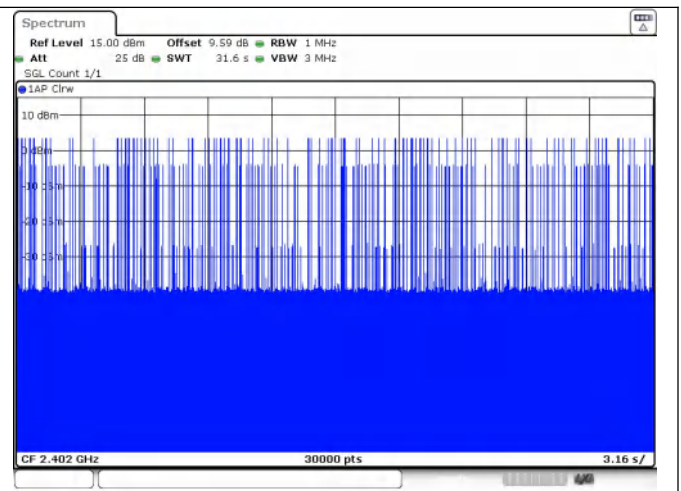
Left

| Modulation | Packet | Channel | Pulse Width (ms) | Number of Pulses in 31.6 seconds | Dwell Time (ms) | Limit (ms) | Result |
|---------------|--------|------------------|------------------|----------------------------------|-----------------|------------|--------|
| GFSK | DH5 | CH0 (2402MHz) | 2.904 | 116 | 336.86 | < 400 | PASS |
| $\pi/4$ DQPSK | 2-DH5 | | 2.904 | 112 | 325.25 | | PASS |
| 8DPSK | 3-DH5 | | 2.896 | 117 | 338.83 | | PASS |

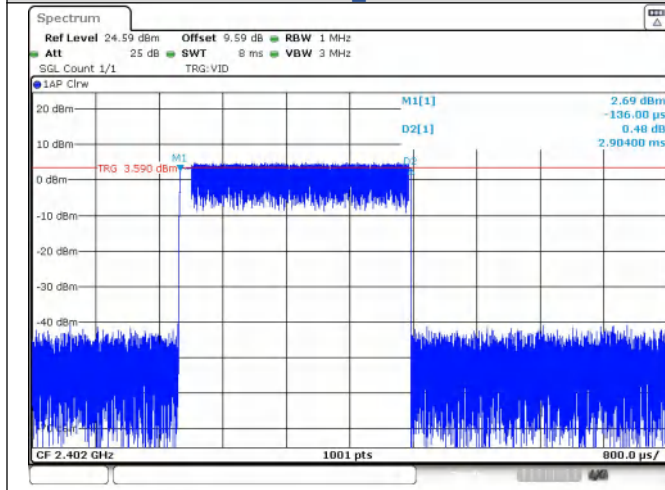
Test Graphs



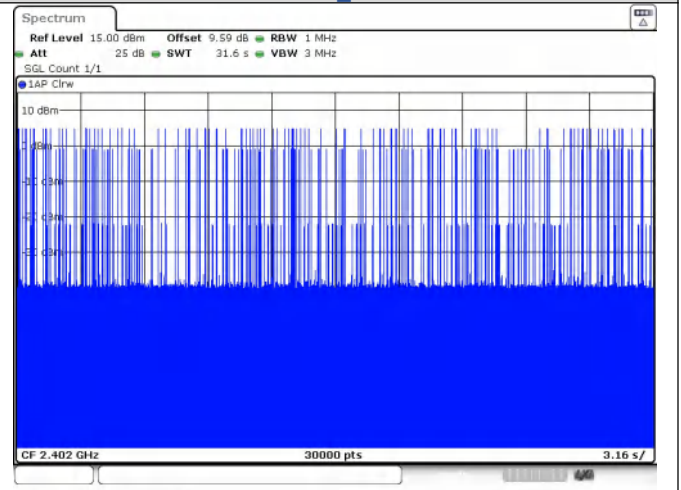
**Pulse Width
GFSK_DH5**



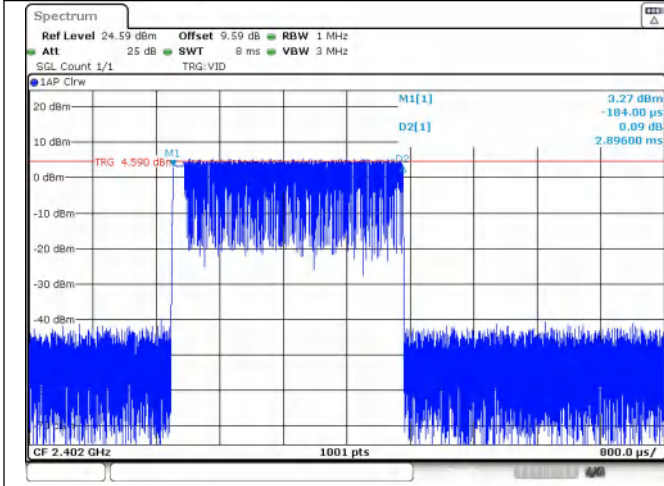
**Number of Pulses in 31.6 seconds
GFSK_DH5**



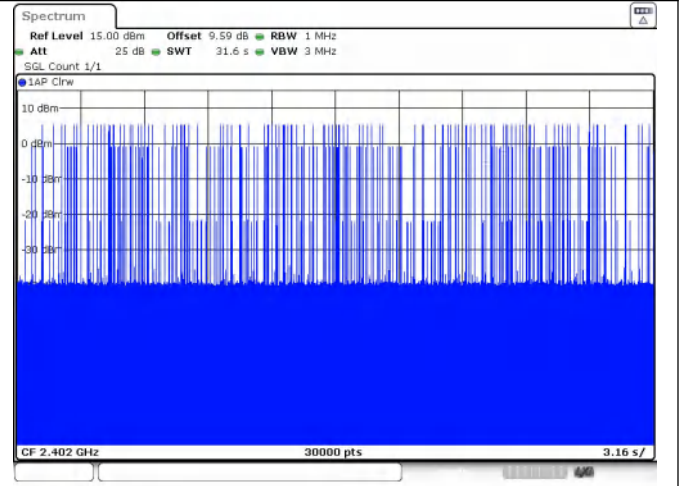
**Pulse Width
 $\pi/4$ DQPSK_2-DH5**



**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5**



**Pulse Width
8DPSK_3-DH5**



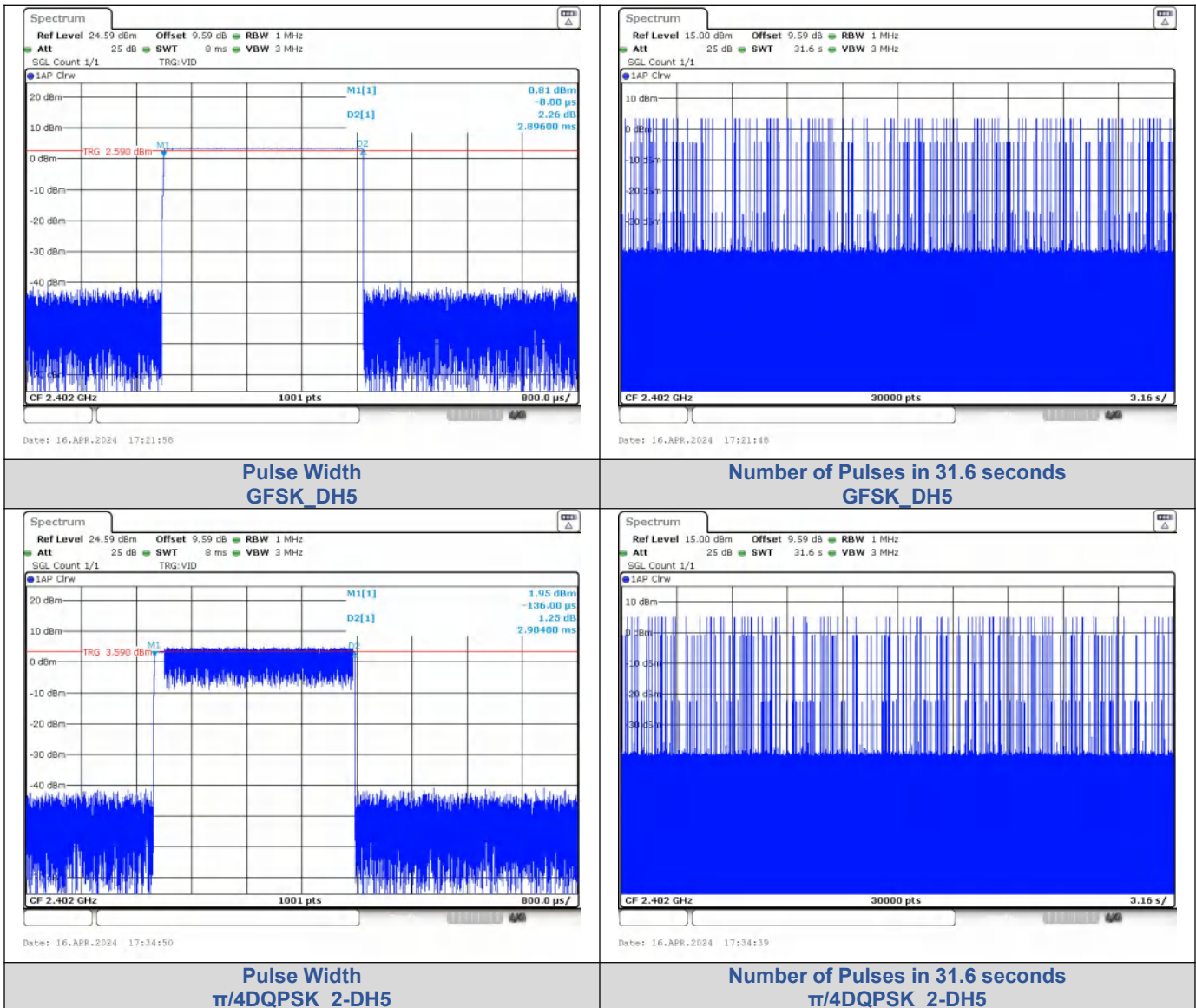
**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

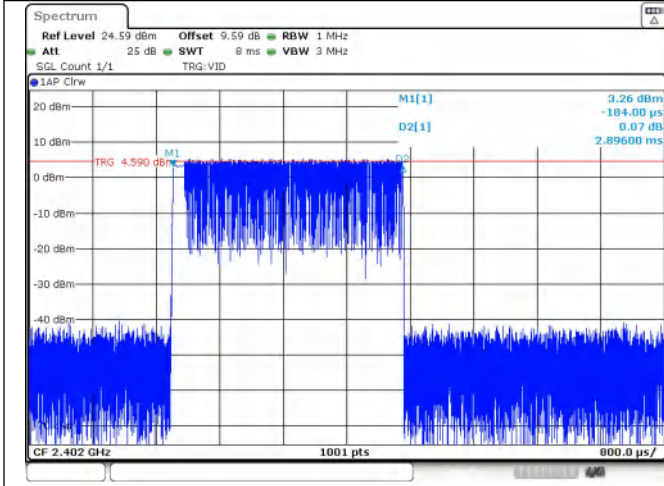
Right

Test Result

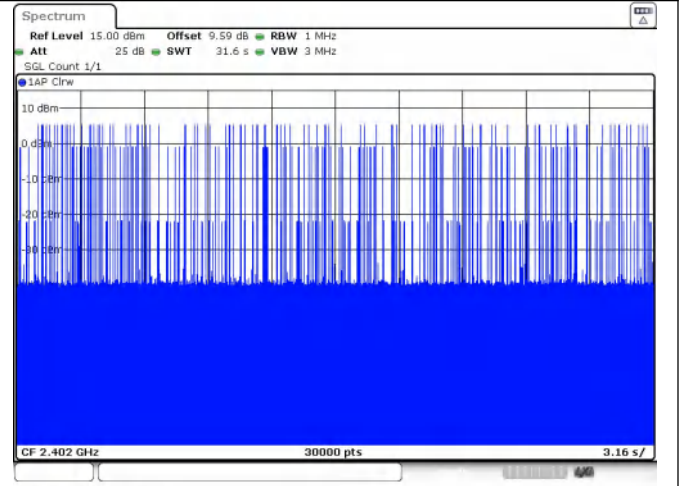
| Modulation | Packet | Channel | Pulse Width (ms) | Number of Pulses in 31.6 seconds | Dwell Time (ms) | Limit (ms) | Result |
|---------------|--------|------------------|------------------|----------------------------------|-----------------|------------|--------|
| GFSK | DH5 | CH0 (2402MHz) | 2.896 | 124 | 359.1 | < 400 | PASS |
| $\pi/4$ DQPSK | 2-DH5 | | 2.904 | 98 | 284.59 | | PASS |
| 8DPSK | 3-DH5 | | 2.896 | 102 | 295.39 | | PASS |

Test Graphs





**Pulse Width
8DPSK_3-DH5**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

Number Of Hopping Channel

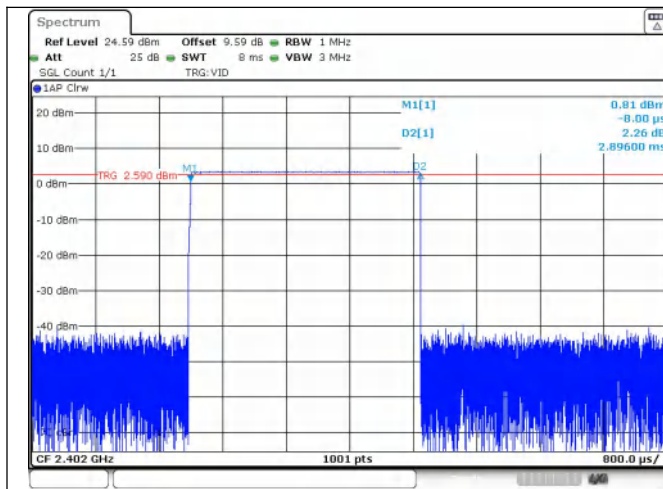
Test Result

Left

Test Result

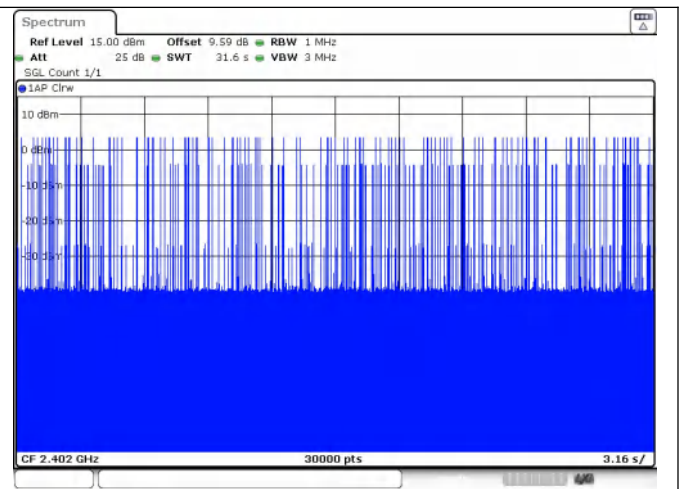
| Modulation | Packet | Channel | Pulse Width (ms) | Number of Pulses in 31.6 seconds | Dwell Time (ms) | Limit (ms) | Result |
|---------------|--------|------------------|------------------|----------------------------------|-----------------|------------|--------|
| GFSK | DH5 | CH0 (2402MHz) | 2.896 | 124 | 359.1 | < 400 | PASS |
| $\pi/4$ DQPSK | 2-DH5 | | 2.904 | 98 | 284.59 | | PASS |
| 8DPSK | 3-DH5 | | 2.896 | 102 | 295.39 | | PASS |

Test Graphs



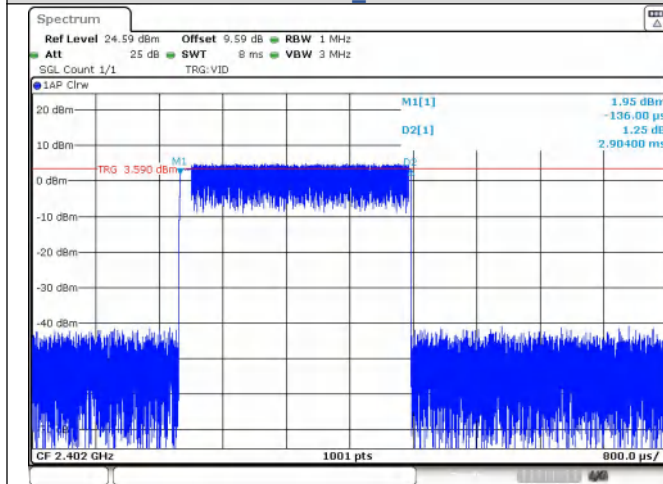
Date: 16.APR.2024 17:21:58

**Pulse Width
GFSK_DH5**



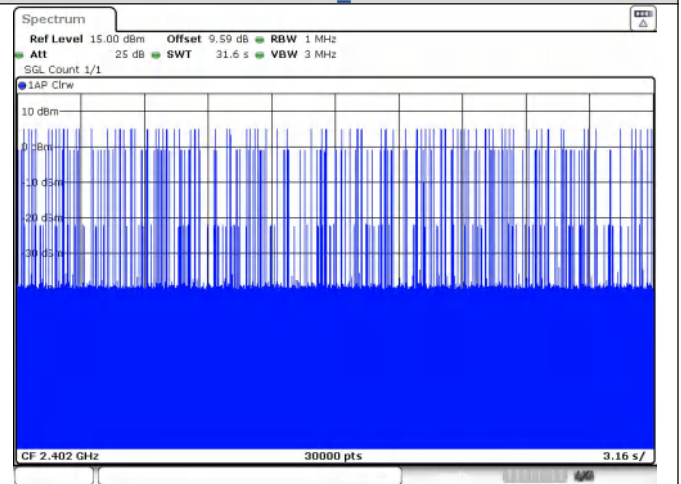
Date: 16.APR.2024 17:21:48

**Number of Pulses in 31.6 seconds
GFSK_DH5**



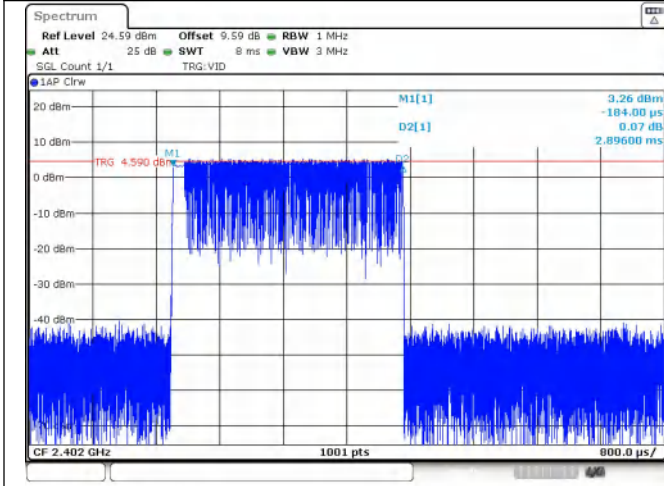
Date: 16.APR.2024 17:34:50

**Pulse Width
 $\pi/4$ DQPSK_2-DH5**

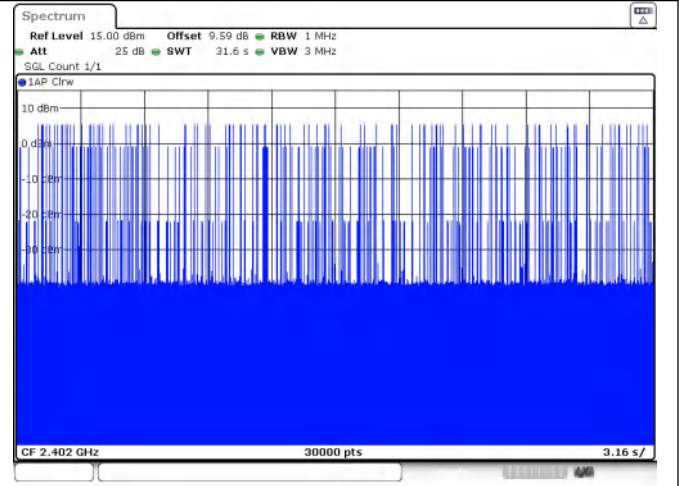


Date: 16.APR.2024 17:34:39

**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5**



**Pulse Width
8DPSK_3-DH5**



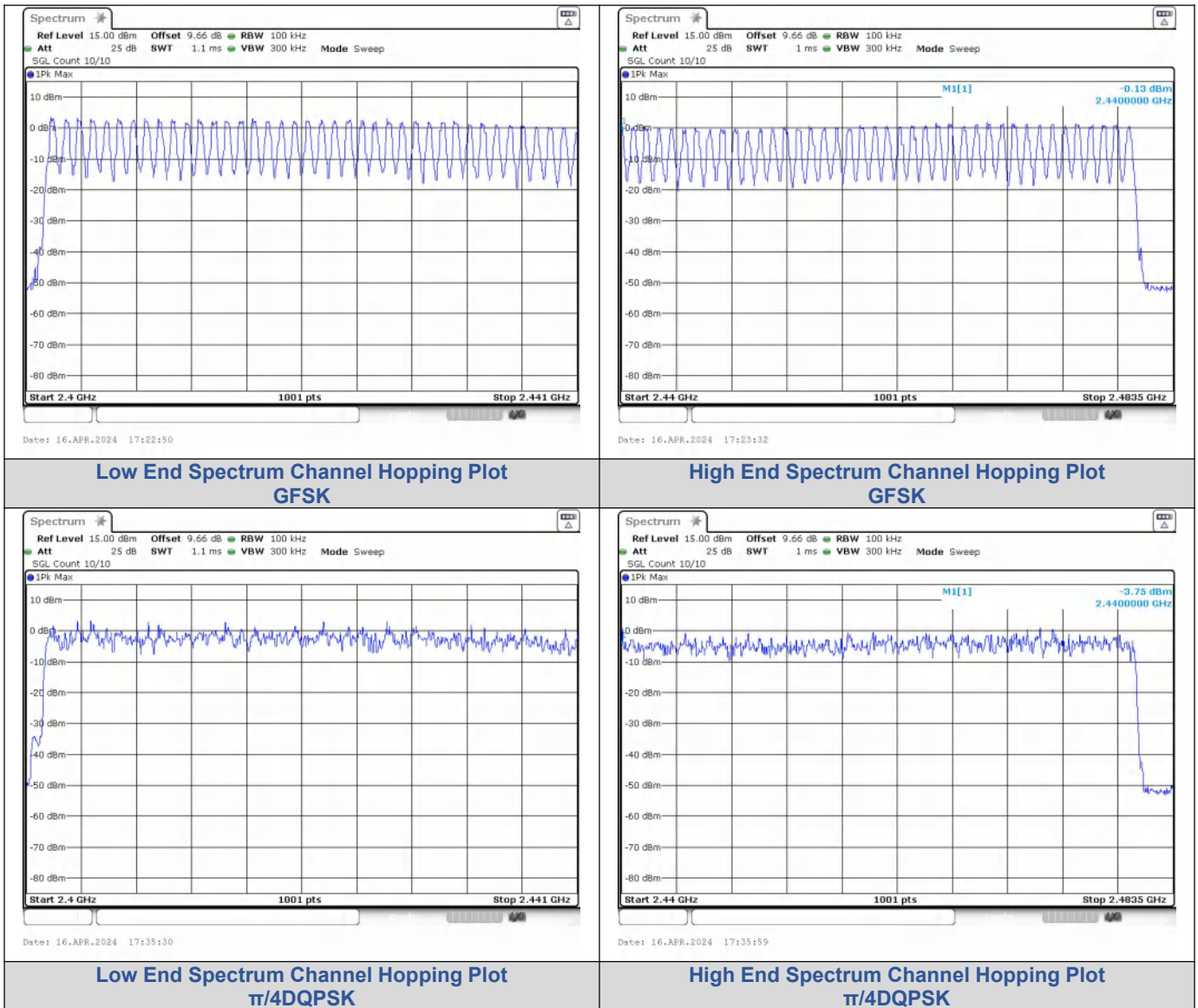
**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

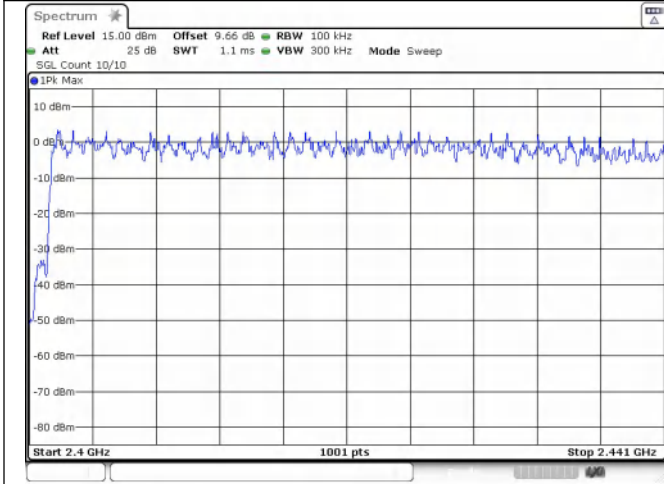
Right

Test Result

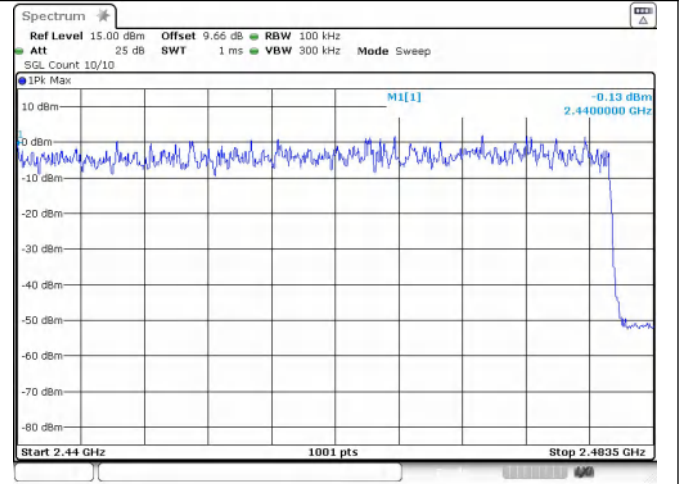
| Modulation | Packet | Number of Hopping Channel | Limit | Result |
|---------------|--------|---------------------------|-------|--------|
| GFSK | DH5 | 79 | 15 | PASS |
| $\pi/4$ DQPSK | 2-DH5 | 79 | 15 | PASS |
| 8DPSK | 3-DH5 | 79 | 15 | PASS |

Test Graphs





**Low End Spectrum Channel Hopping Plot
8DPSK**



**High End Spectrum Channel Hopping Plot
8DPSK**