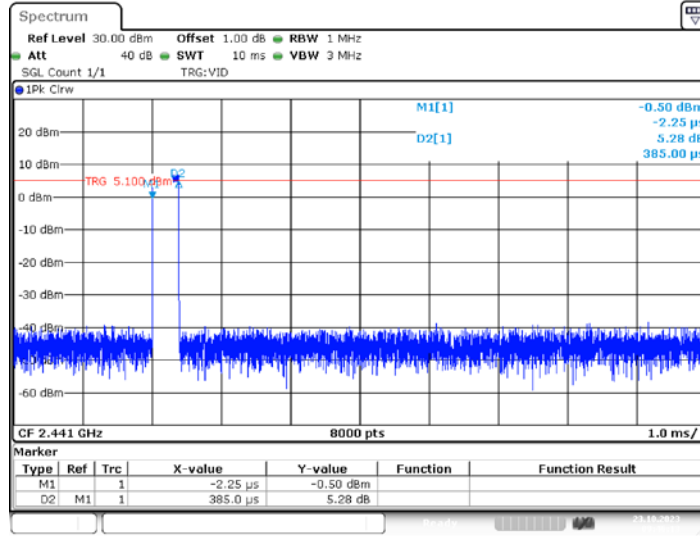
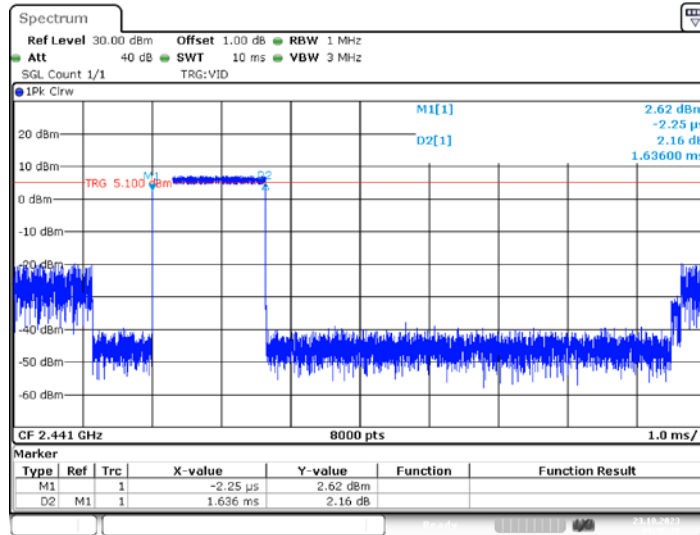




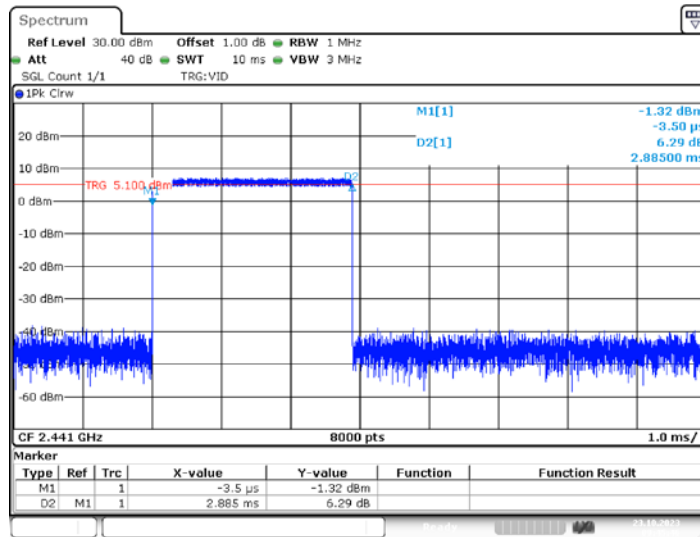
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$\pi/4$ -DQPSK\_2DH3\_Hop

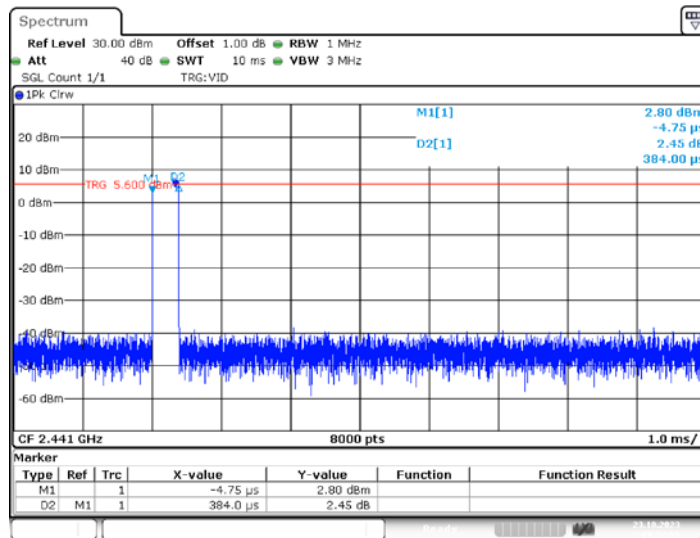


$\pi/4$ -DQPSK\_2DH3\_Hop



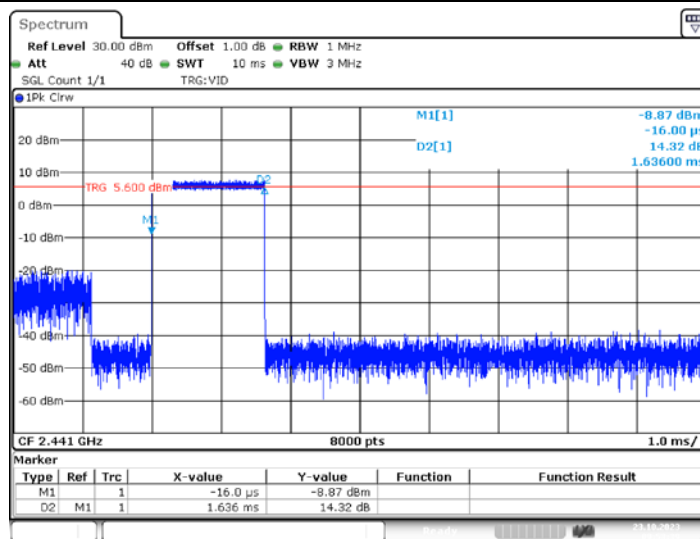
Date: 23.OCT.2023 09:45:46

### 8-DPSK\_3DH1\_Hop



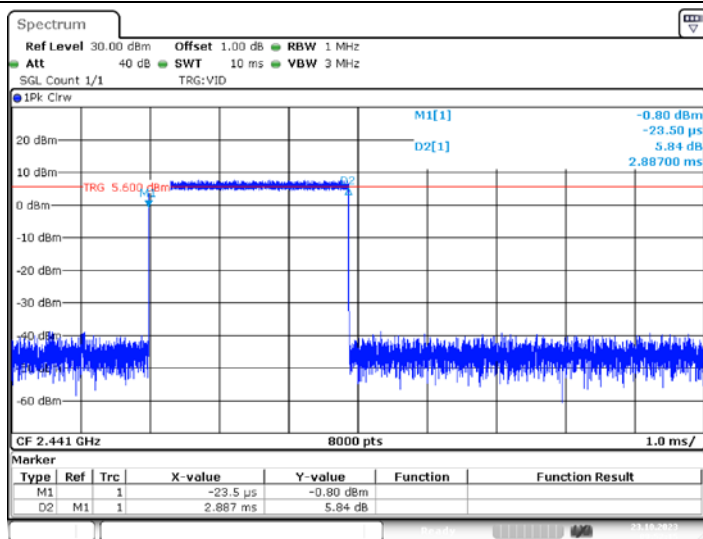
Date: 23.OCT.2023 09:52:55

### 8-DPSK\_3DH3\_Hop



Date: 23.OCT.2023 09:53:39

### 8-DPSK\_3DH5\_Hop



Date: 23.OCT.2023 09:52:16



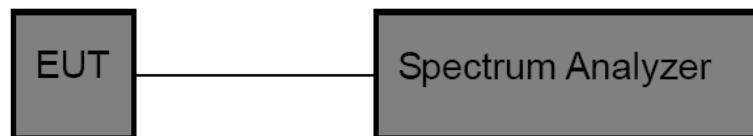
### 3.9. Peak Output Power

#### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(1) / RSS-247 5.4 b:

Test Item	Limit	Frequency Range(MHz)
Maximum Conducted Peak Output Power	Hopping Channels > 75 Power < 1W (30dBm) Other < 125mW (21dBm)	2400~2483.5
E.I.R.P	4 Watt or 36dBm	2400~2483.5

#### Test Configuration



#### Test Procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- Spectrum Setting:
  - Set RBW > 20DB Bandwidth.
  - Set the video bandwidth (VBW) ≥ RBW.
  - Detector = Peak.
  - Trace mode = Max hold.
  - Sweep = Auto couple.

#### Test Mode

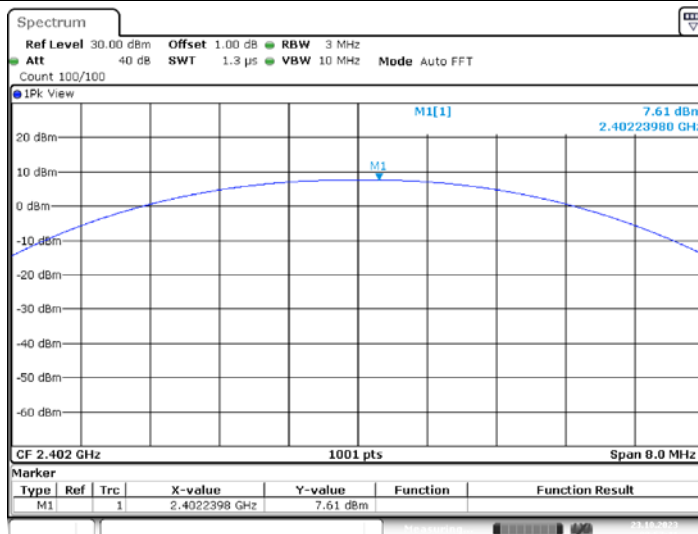
Please refer to the clause 2.4.

#### Test Result

Test Mode	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
GFSK	2402	7.61	≤30	PASS
	2441	8.14	≤30	PASS
	2480	7.38	≤30	PASS
π/4-DQPSK	2402	6.88	≤30	PASS
	2441	7.50	≤30	PASS
	2480	6.62	≤30	PASS
8-DPSK	2402	7.16	≤30	PASS
	2441	7.60	≤30	PASS
	2480	6.86	≤30	PASS

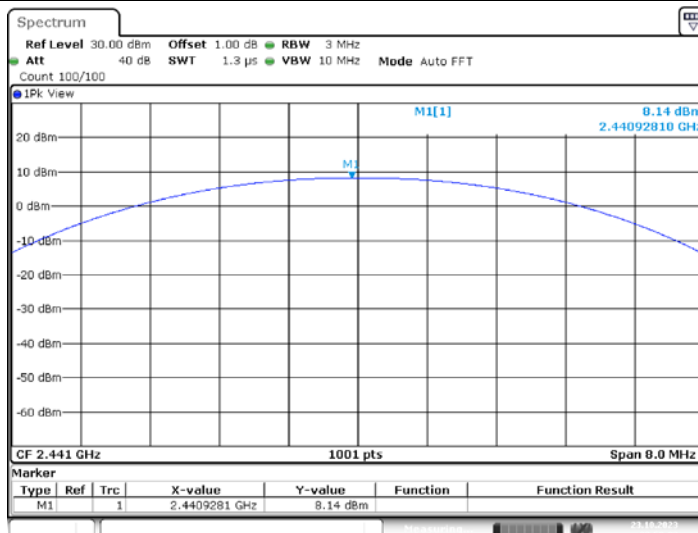


### GFSK\_2402



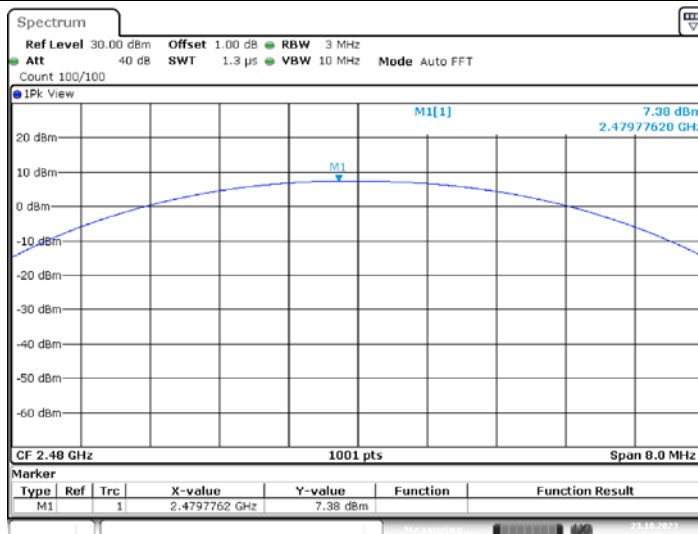
Date: 23.OCT.2023 09:57:42

### GFSK\_2441



Date: 23.OCT.2023 09:58:04

### GFSK\_2480



Date: 23.OCT.2023 09:59:15

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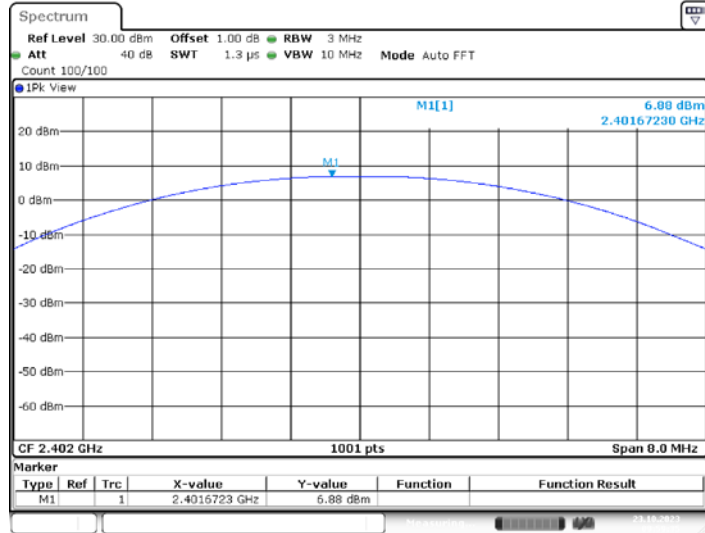
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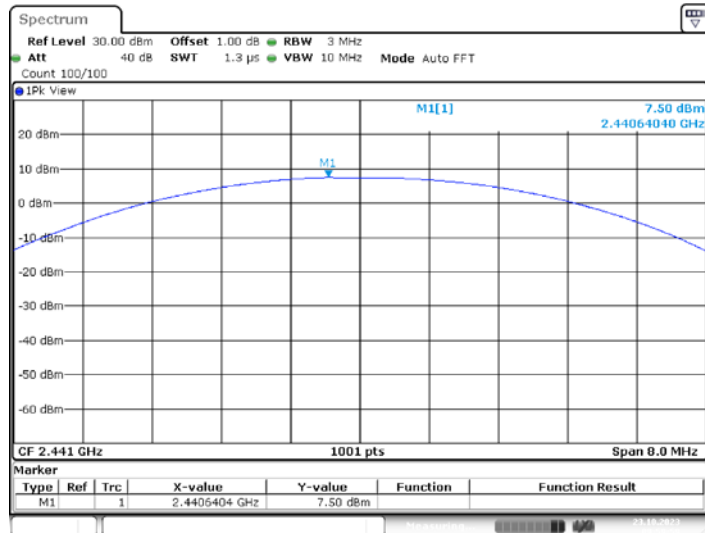


$\pi/4$ -DQPSK\_2402



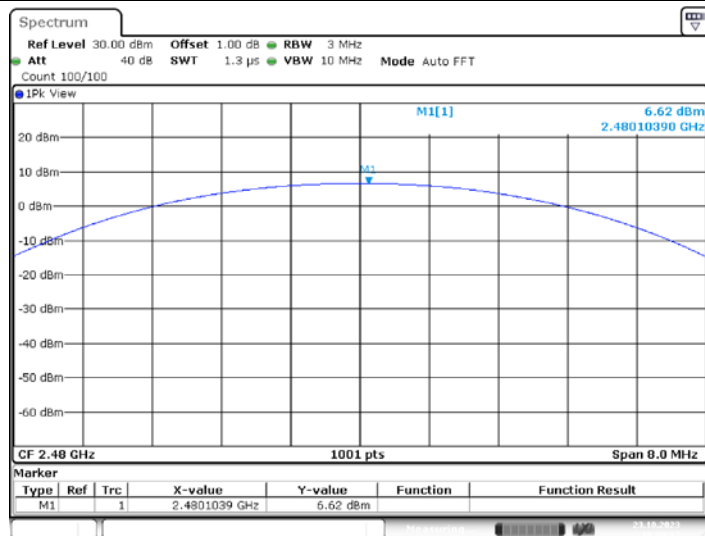
Date: 23.OCT.2023 09:59:56

$\pi/4$ -DQPSK\_2441



Date: 23.OCT.2023 09:59:58

$\pi/4$ -DQPSK\_2480



Date: 23.OCT.2023 10:00:16

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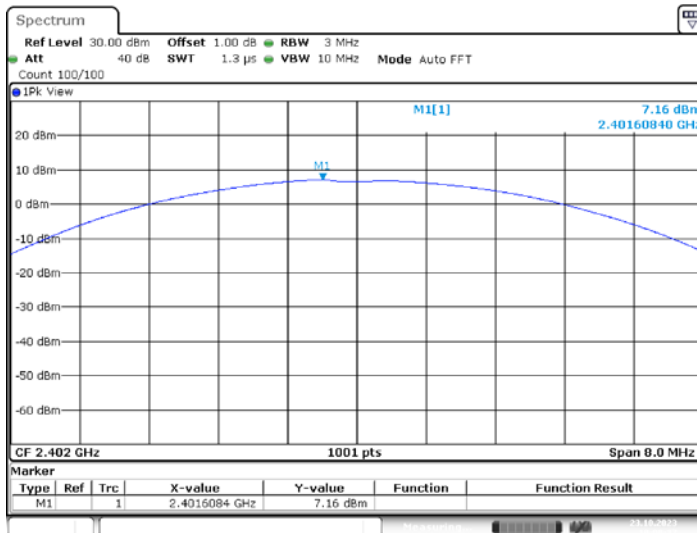
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China  
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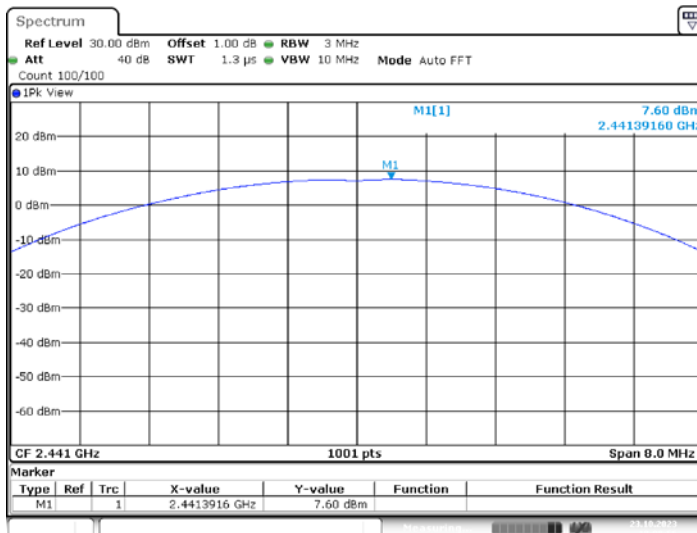


### 8-DPSK\_2402



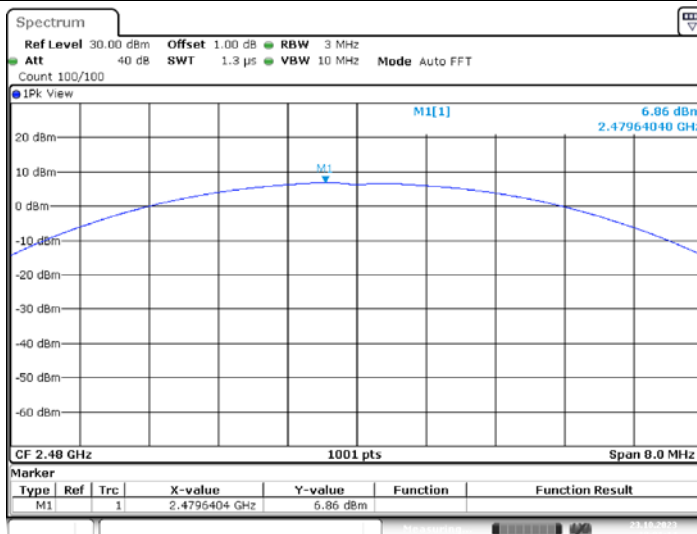
Date: 23.OCT.2023 10:00:56

### 8-DPSK\_2441



Date: 23.OCT.2023 10:00:56

### 8-DPSK\_2480



Date: 23.OCT.2023 10:01:14

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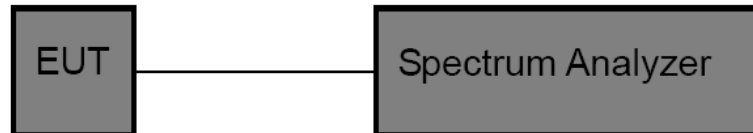


### 3.10. Duty Cycle

#### Limit

None, for report purposes only.

#### Test Configuration



#### Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:  
Set analyzer center frequency to test channel center frequency.  
Set the span to 0Hz  
Set the RBW to 10MHz  
Set the VBW to 10MHz  
Detector: Peak  
Sweep time: Auto  
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

#### Test Mode

Please refer to the clause 2.4.

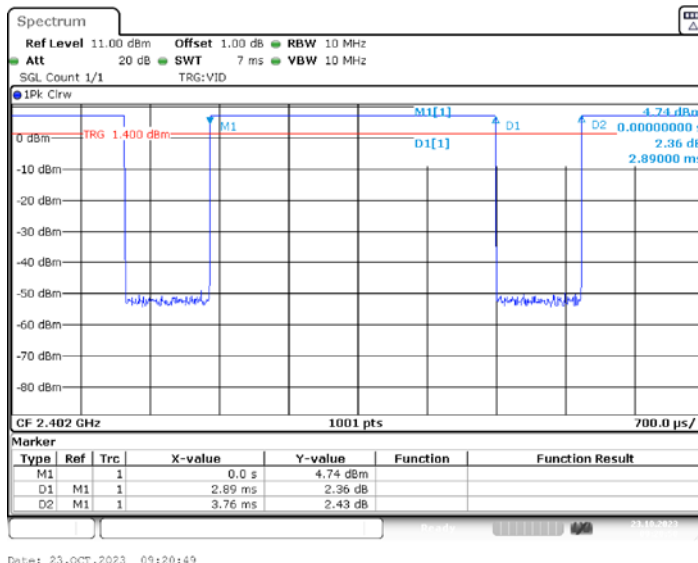
#### Test Result

Test Mode	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
GFSK	2402	2.89	3.76	76.86	0.346	1
	2441	2.89	3.75	77.07	0.346	1
	2480	2.89	3.75	77.07	0.346	1
$\pi/4$ -DQPSK	2402	2.89	3.75	77.07	0.346	1
	2441	2.89	3.75	77.07	0.346	1
	2480	2.89	3.76	76.86	0.346	1
8-DPSK	2402	2.89	3.75	77.07	0.346	1
	2441	2.90	3.76	77.13	0.345	1
	2480	2.89	3.76	76.86	0.346	1

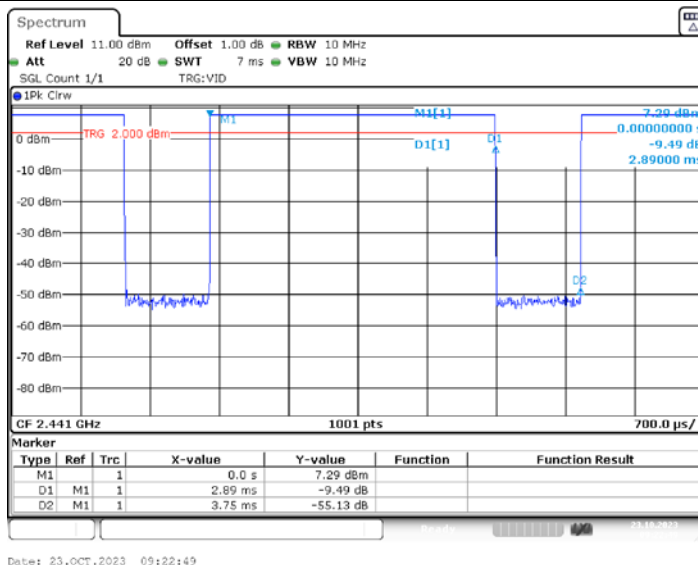




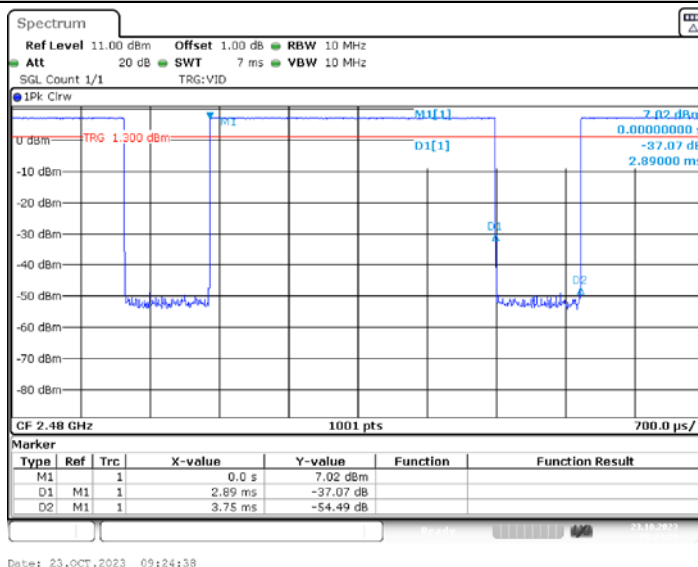
### GFSK\_2402



### GFSK\_2441



### GFSK\_2480



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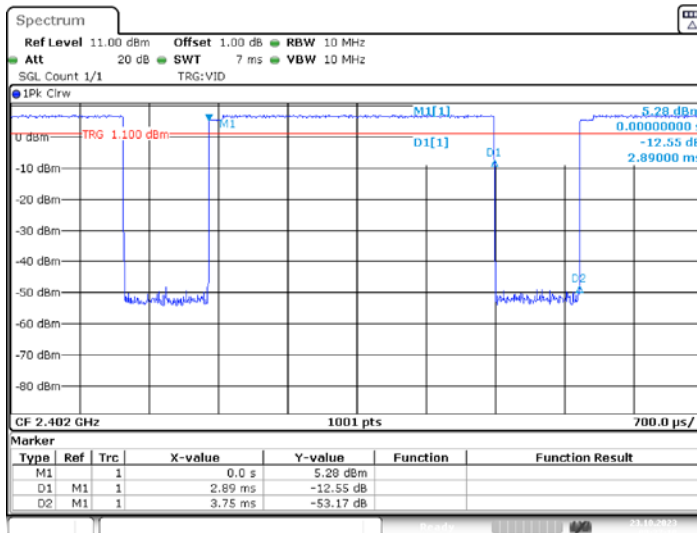
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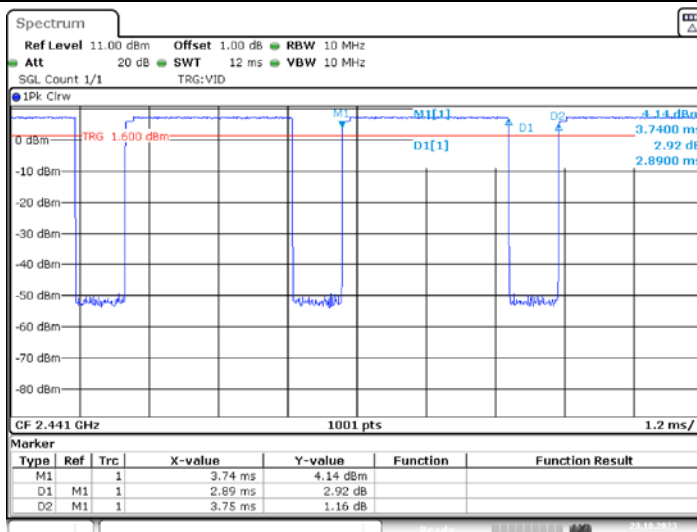


$\pi/4$ -DQPSK\_2402



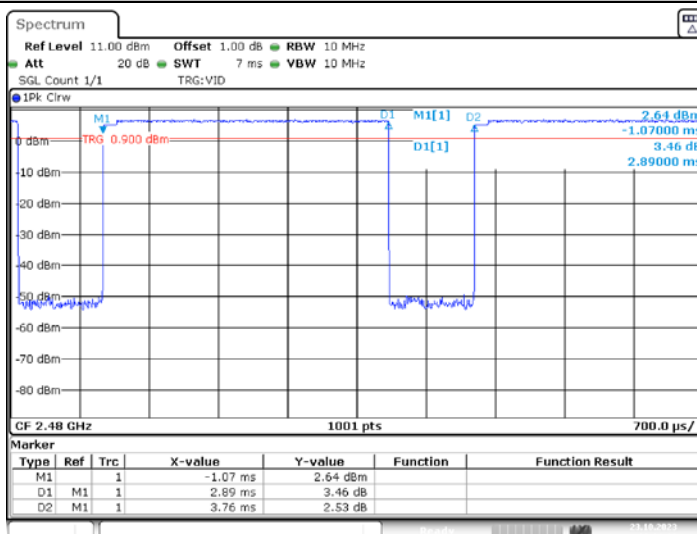
Date: 23.OCT.2023 09:27:10

$\pi/4$ -DQPSK\_2441



Date: 23.OCT.2023 09:29:14

$\pi/4$ -DQPSK\_2480



Date: 23.OCT.2023 09:31:03

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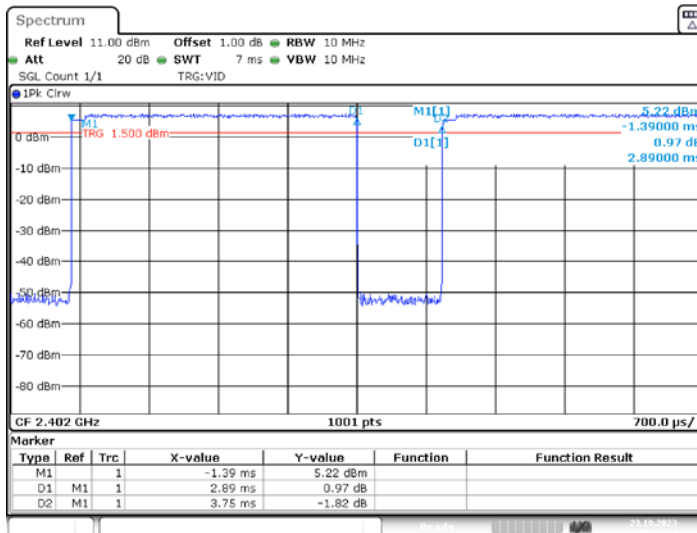
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China  
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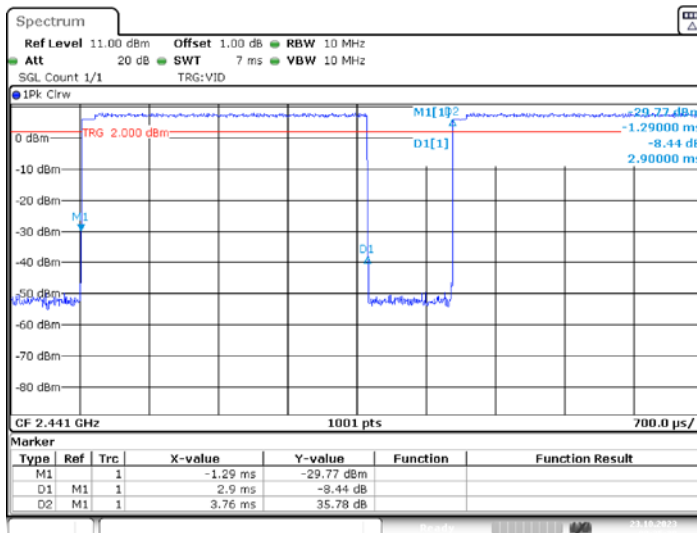


### 8-DPSK\_2402



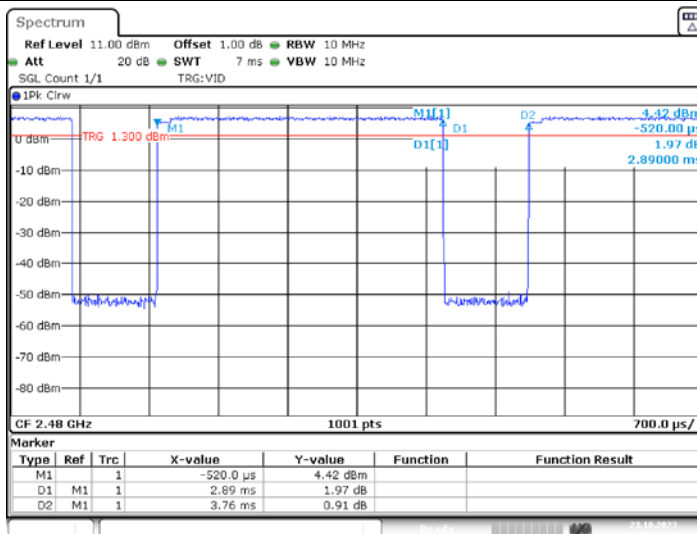
Date: 23.OCT.2023 09:33:24

### 8-DPSK\_2441



Date: 23.OCT.2023 09:35:39

### 8-DPSK\_2480



Date: 23.OCT.2023 09:37:23

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### 3.11. Antenna requirement

#### Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.203:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):**

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

\*\*\*\*\*THE END\*\*\*\*\*