

Test Information:

Serial No.:	2NI0-2	Test Date:	2024/07/02
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, t raceable to National Primary Standards and International System of Units (SI).

20 dB Emission Bandwidth**BDR**

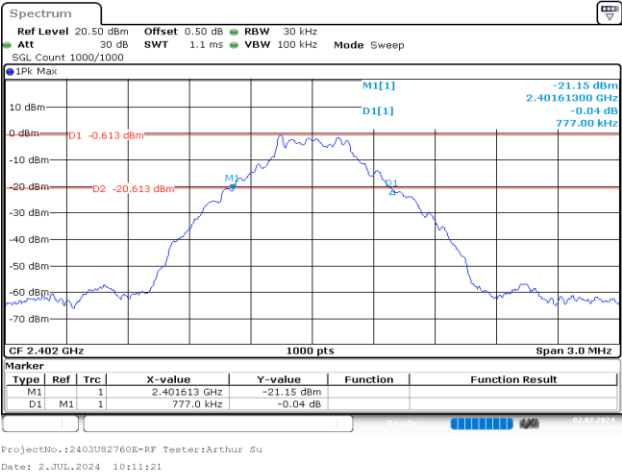
Mode	Value (MHz)
GFSK_Low	0.777
GFSK_Middle	0.777
GFSK_High	0.771

EDR

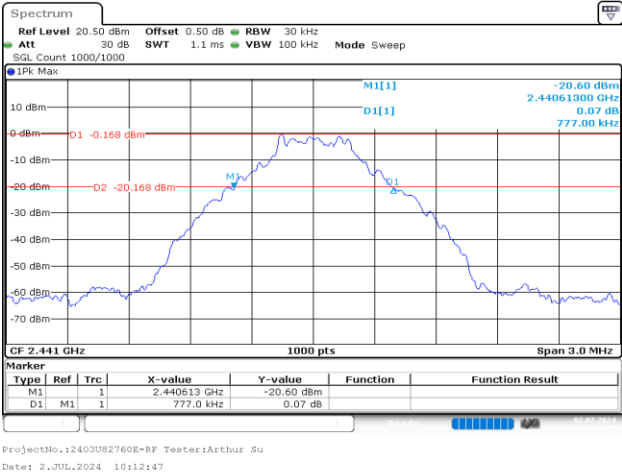
Mode	Value (MHz)
$\pi/4$ -DQPSK_Low	1.215
$\pi/4$ -DQPSK_Middle	1.218
$\pi/4$ -DQPSK_High	1.212
8DPSK_Low	1.218
8DPSK_Middle	1.221
8DPSK_High	1.221

BDR

GFSK_Low 0.777MHz

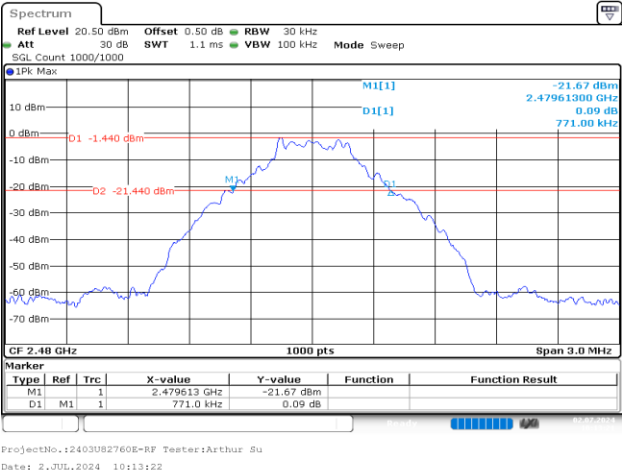


GFSK_Middle 0.777MHz

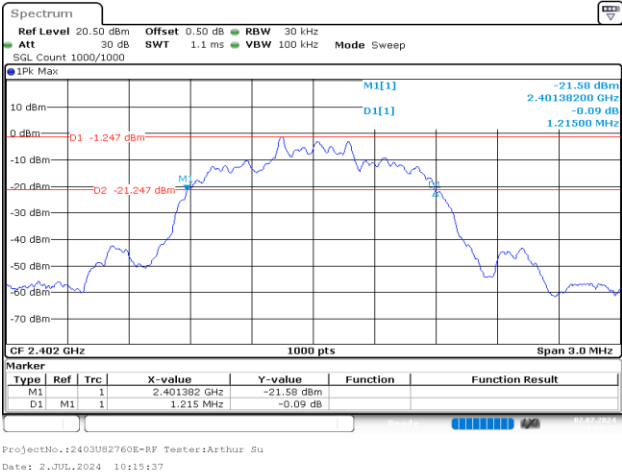


EDR

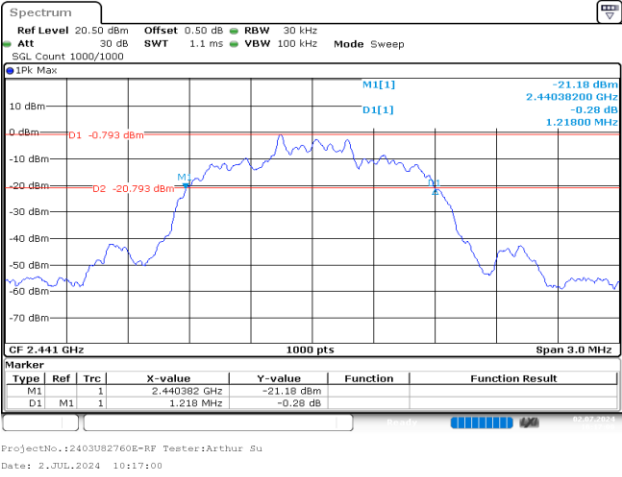
GFSK_High 0.771MHz



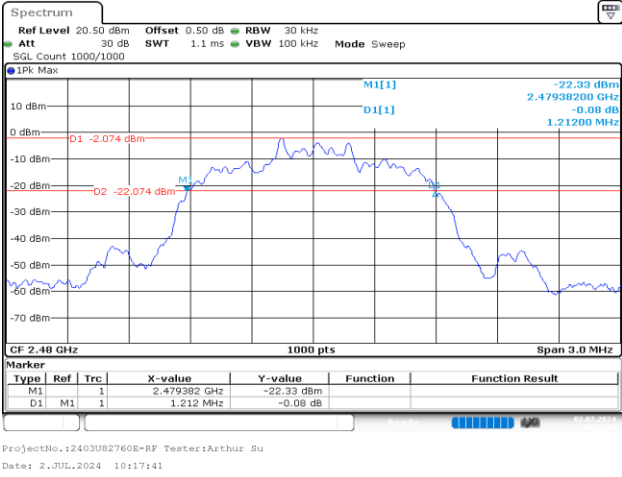
$\pi/4$ -DQPSK_Low 1.215MHz



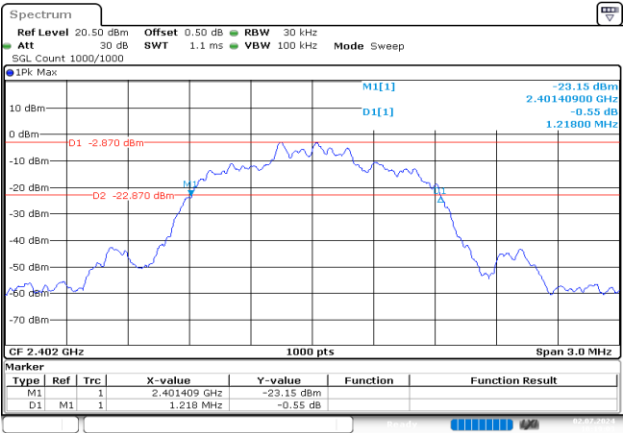
$\pi/4$ -DQPSK_Middle 1.218MHz



$\pi/4$ -DQPSK_High 1.212MHz

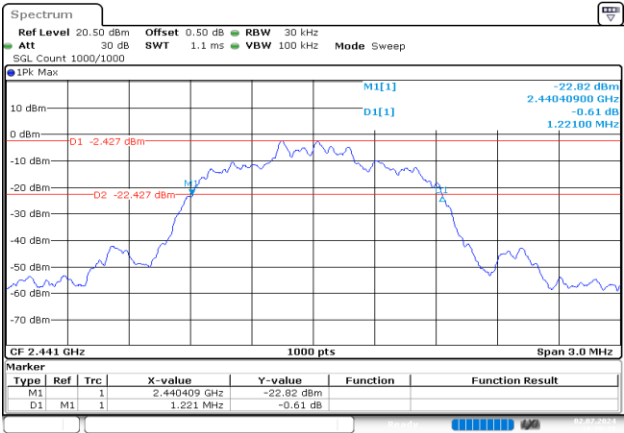


8DPSK_Low 1.218MHz



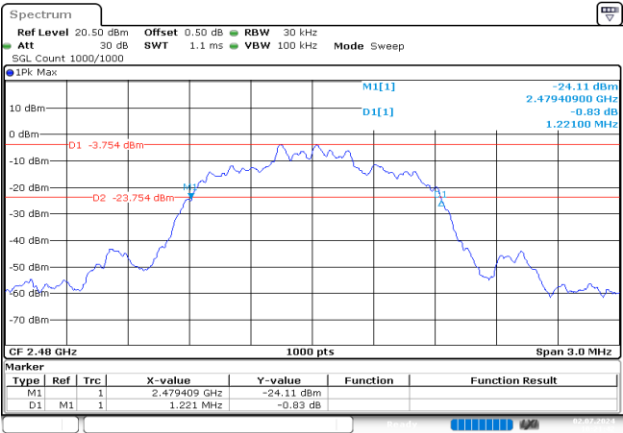
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:19:03

8DPSK_Middle 1.221MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:20:35

8DPSK_High 1.221MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:21:42

Channel Separation

BDR

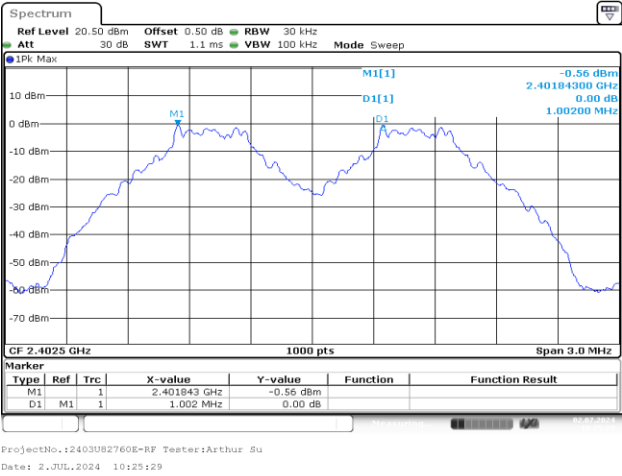
Mode	Value (MHz)	Limit (MHz)	Result
GFSK_Low	1.002	0.518	Pass
GFSK_Middle	1.005	0.518	Pass
GFSK_High	1.005	0.514	Pass

EDR

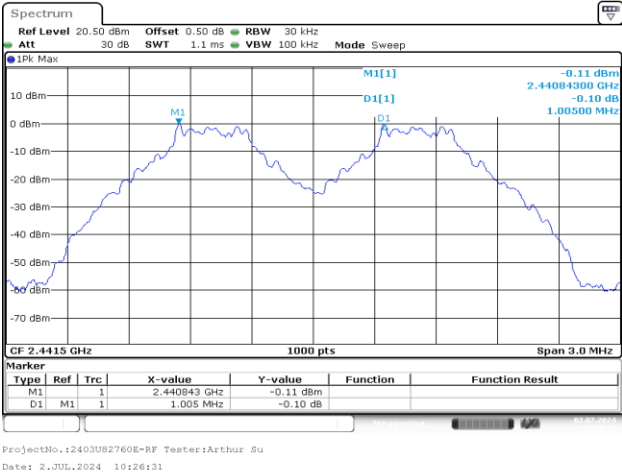
Mode	Value (MHz)	Limit (MHz)	Result
$\pi/4$ -DQPSK_Low	1.002	0.810	Pass
$\pi/4$ -DQPSK_Middle	1.005	0.812	Pass
$\pi/4$ -DQPSK_High	1.005	0.808	Pass
8DPSK_Low	0.999	0.812	Pass
8DPSK_Middle	1.005	0.814	Pass
8DPSK_High	1.002	0.814	Pass

BDR

GFSK_Low 1.002MHz

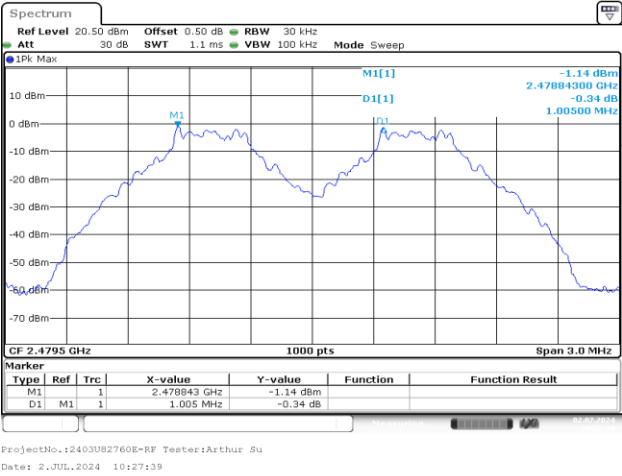


GFSK_Middle 1.005MHz

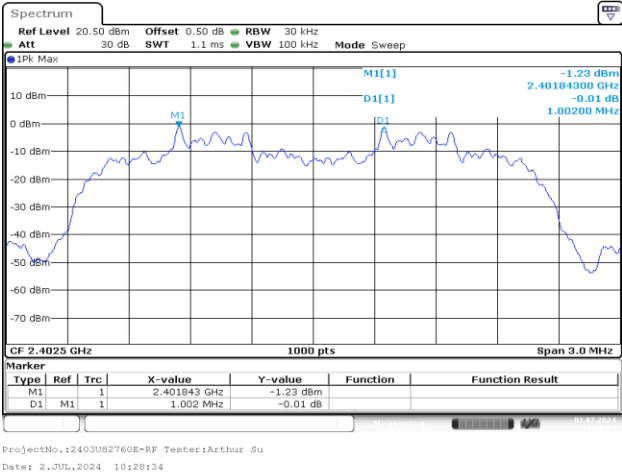


EDR

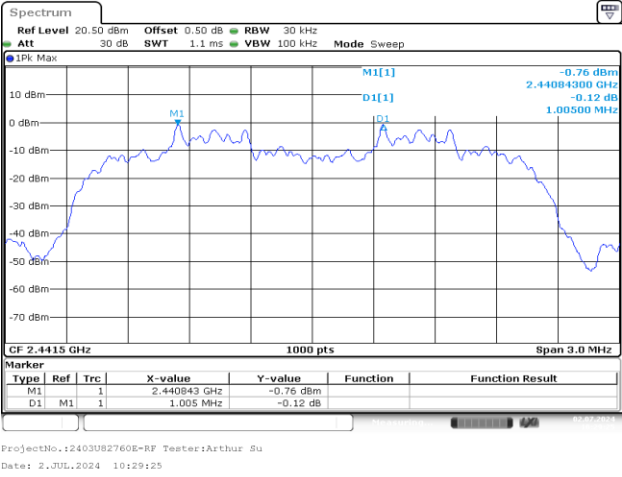
GFSK_High 1.005MHz



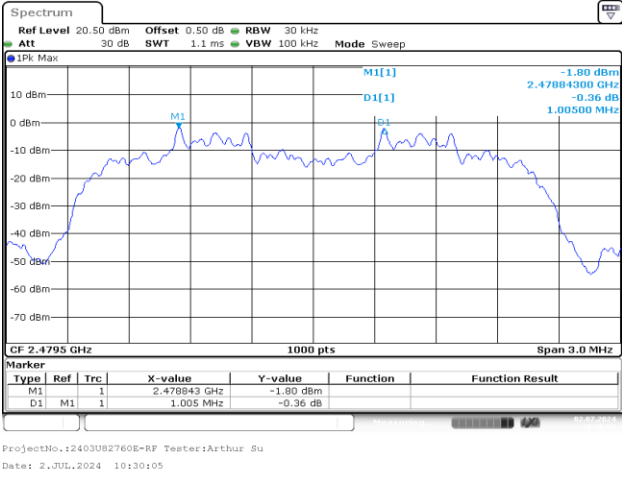
$\pi/4$ -DQPSK_Low 1.002MHz



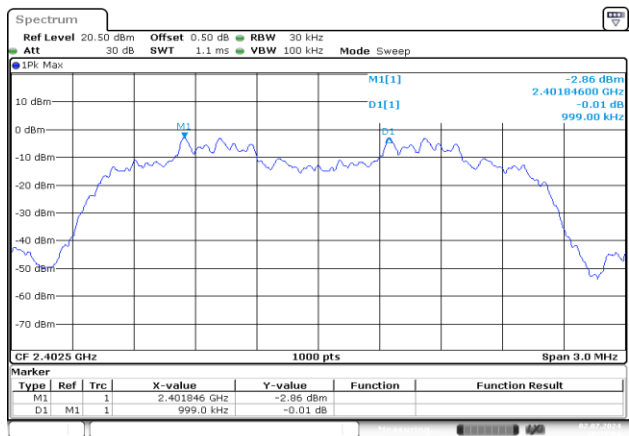
$\pi/4$ -DQPSK_Middle 1.005MHz



$\pi/4$ -DQPSK_High 1.005MHz

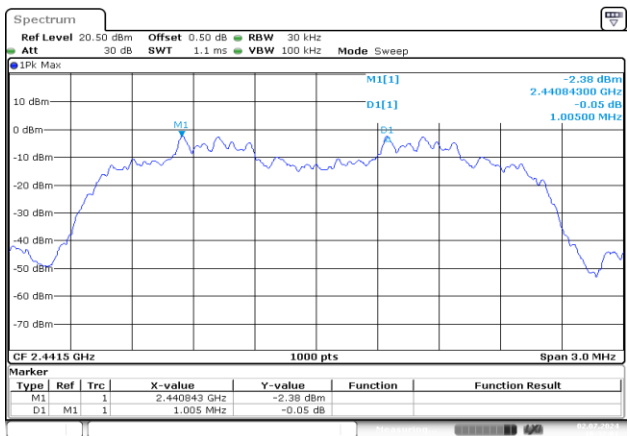


8DPSK_Low 0.999MHz



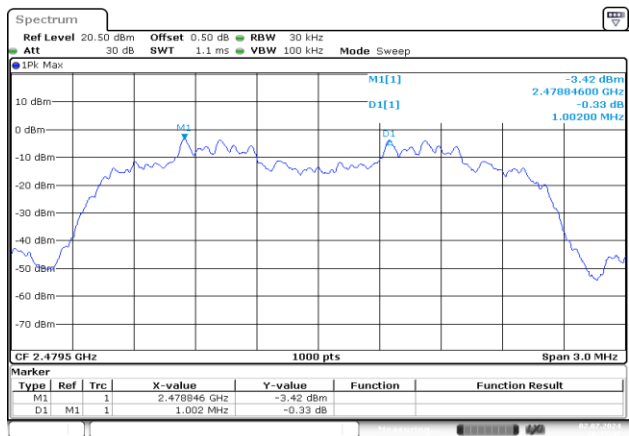
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:31:04

8DPSK_Middle 1.005MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:32:01

8DPSK_High 1.002MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:32:47

Number of Hopping Frequency

BDR

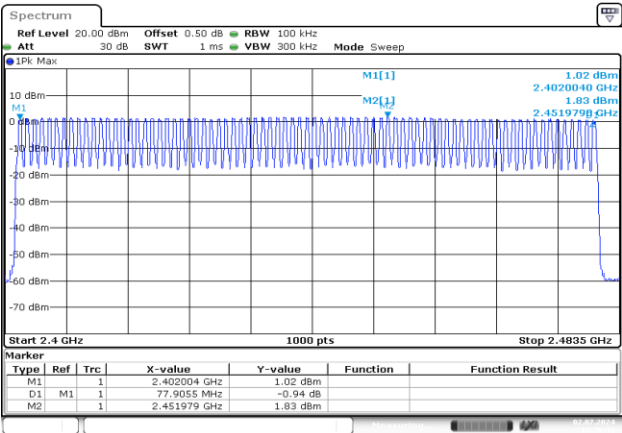
Mode	Value	Limit	Result
GFSK_Hopping	79	15	Pass

EDR

Mode	Value	Limit	Result
$\pi/4$ -DQPSK_Hopping	79	15	Pass
8DPSK_Hopping	79	15	Pass

BDR

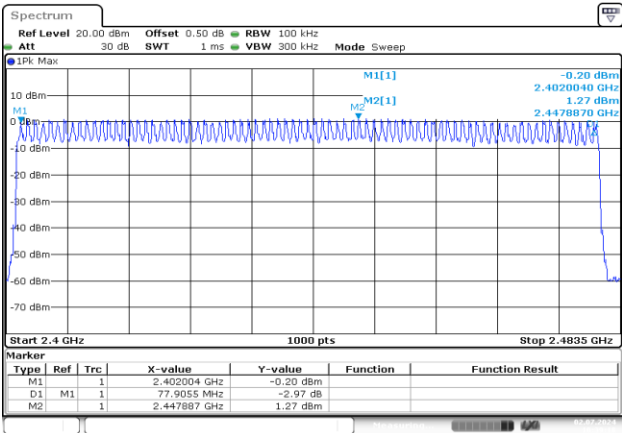
GFSK_Hopping 79



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:36:41

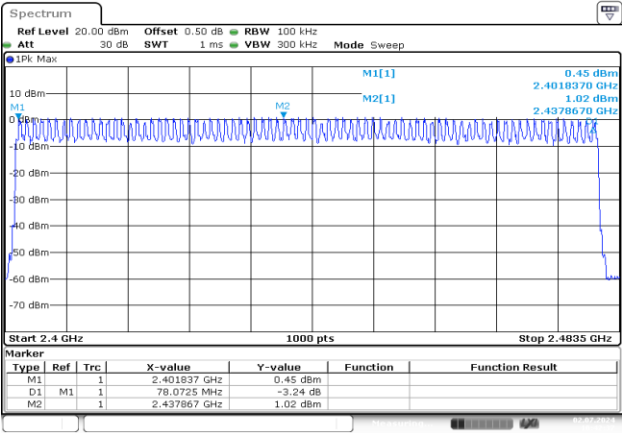
EDR

$\pi/4$ -DQPSK_Hopping 79



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:39:18

8DPSK_Hopping 79



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:42:37

Time of Occupancy (dwell time)**BDR**

Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
GFSK_Hopping_DH1	0.395	0.126	0.400	Pass
GFSK_Hopping_DH3	1.656	0.265	0.400	Pass
GFSK_Hopping_DH5	2.910	0.310	0.400	Pass

EDR

Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
$\pi/4$ -DQPSK_Hopping_2DH1	0.403	0.129	0.400	Pass
$\pi/4$ -DQPSK_Hopping_2DH3	1.659	0.265	0.400	Pass
$\pi/4$ -DQPSK_Hopping_2DH5	2.915	0.311	0.400	Pass
8DPSK_Hopping_3DH1	0.403	0.129	0.400	Pass
8DPSK_Hopping_3DH3	1.659	0.265	0.400	Pass
8DPSK_Hopping_3DH5	2.915	0.311	0.400	Pass

Note:

DH1:Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s

DH3:Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s

DH5:Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s

2DH1: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s

2DH3: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s

2DH5: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s

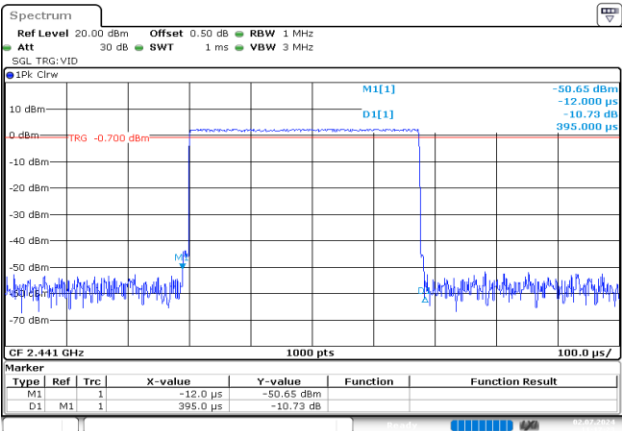
3DH1: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s

3DH3: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s

3DH5: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s

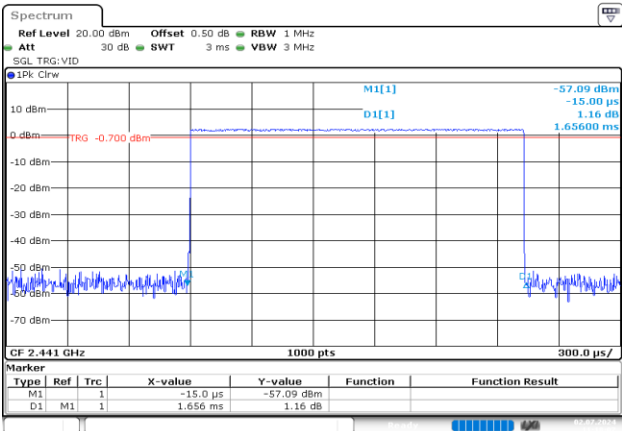
BDR

GFSK_Hopping_DH1 0.395ms



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 11:17:23

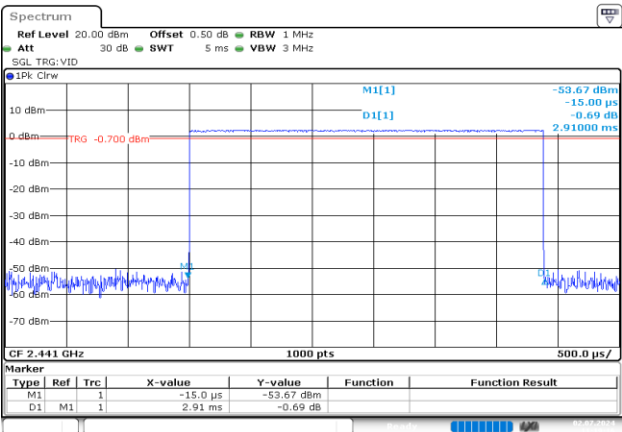
GFSK_Hopping_DH3 1.656ms



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 11:18:07

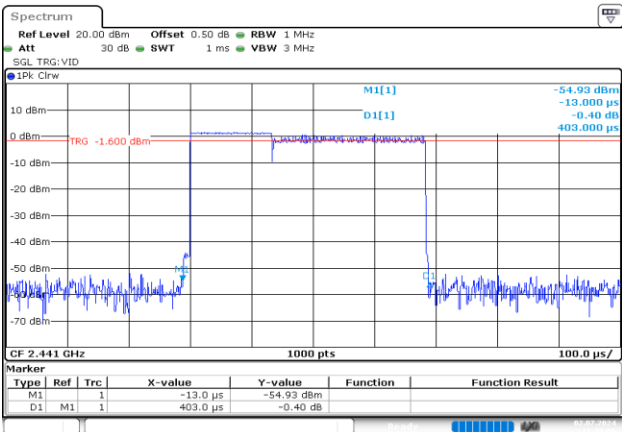
EDR

GFSK_Hopping_DH5 2.910ms



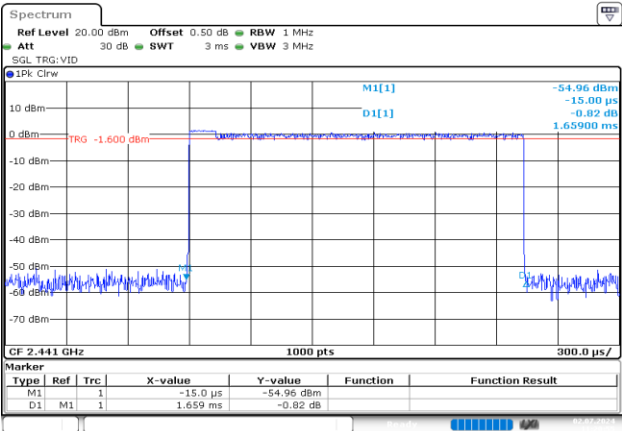
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 11:19:16

$\pi/4$ -DQPSK_Hopping_2DH1 0.403ms



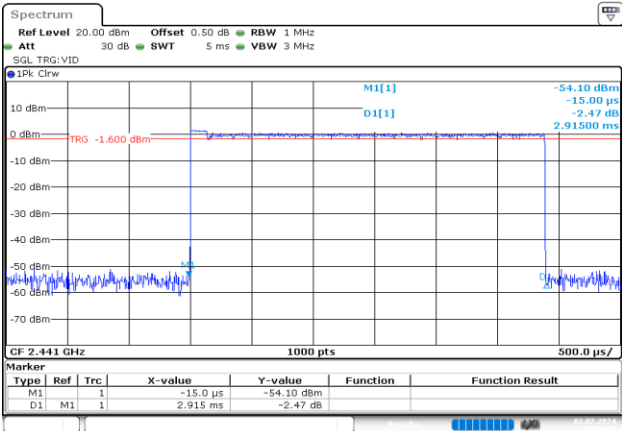
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 11:20:06

$\pi/4$ -DQPSK_Hopping_2DH3 1.659ms



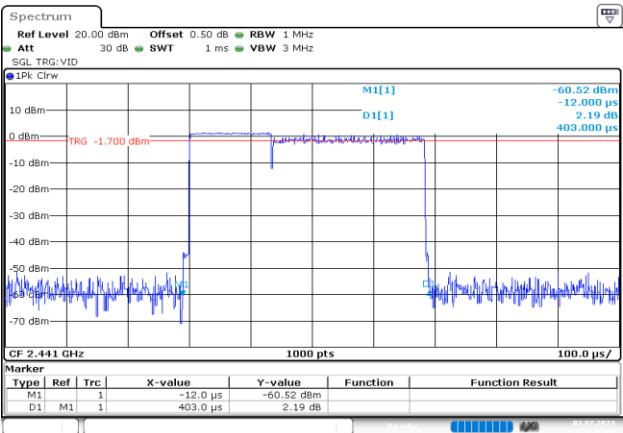
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 11:20:55

$\pi/4$ -DQPSK_Hopping_2DH5 2.915ms

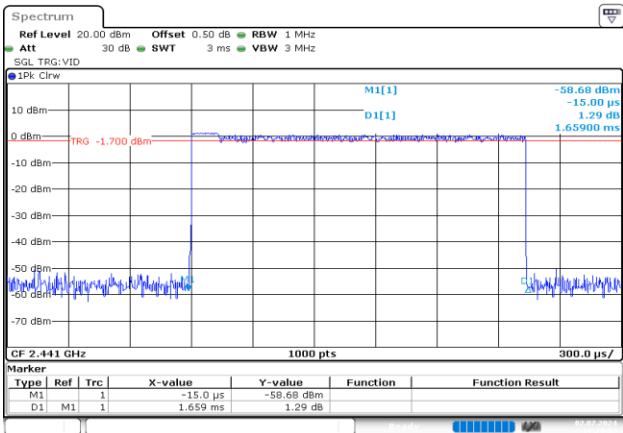


ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 11:21:47

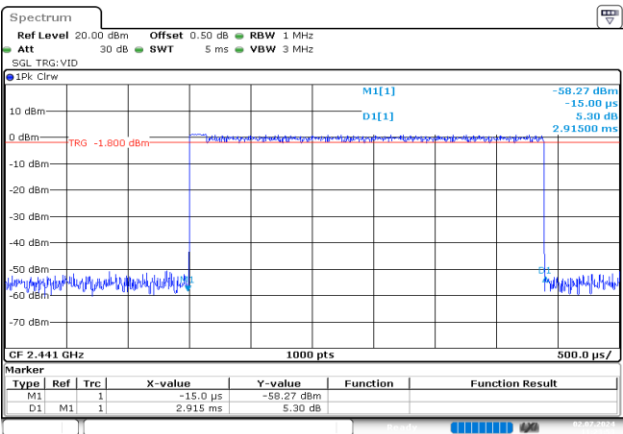
8DPSK_Hopping_3DH1 0.403ms



8DPSK_Hopping_3DH3 1.659ms



8DPSK_Hopping_3DH5 2.915ms



Maximum Conducted Output Power**BDR**

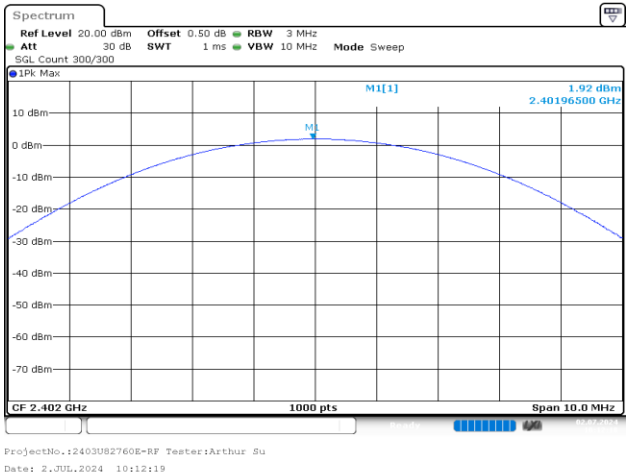
Mode	Value (dBm)	Limit (dBm)	Result
GFSK_Low	1.92	21.00	Pass
GFSK_Middle	2.35	21.00	Pass
GFSK_High	1.02	21.00	Pass

EDR

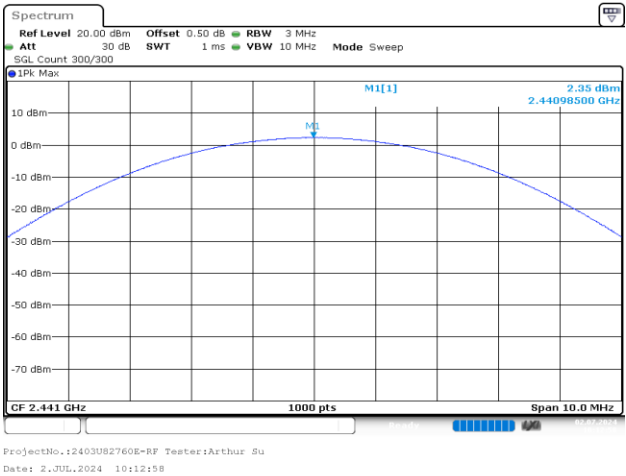
Mode	Value (dBm)	Limit (dBm)	Result
$\pi/4$ -DQPSK_Low	0.95	21.00	Pass
$\pi/4$ -DQPSK_Middle	1.42	21.00	Pass
$\pi/4$ -DQPSK_High	0.10	21.00	Pass
8DPSK_Low	0.79	21.00	Pass
8DPSK_Middle	1.25	21.00	Pass
8DPSK_High	-0.06	21.00	Pass

BDR

GFSK_Low 1.92dBm

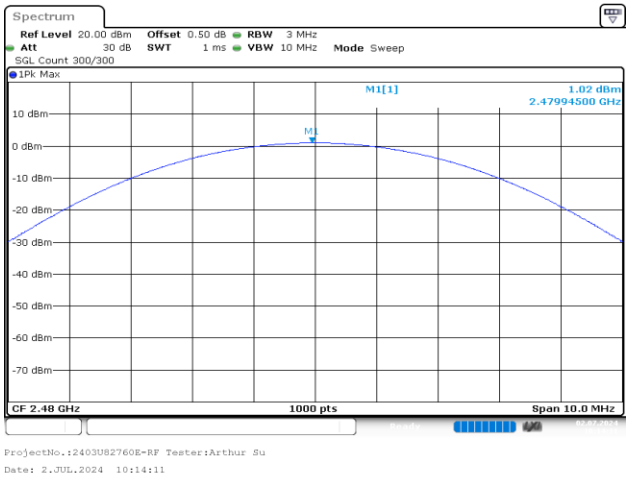


GFSK_Middle 2.35dBm

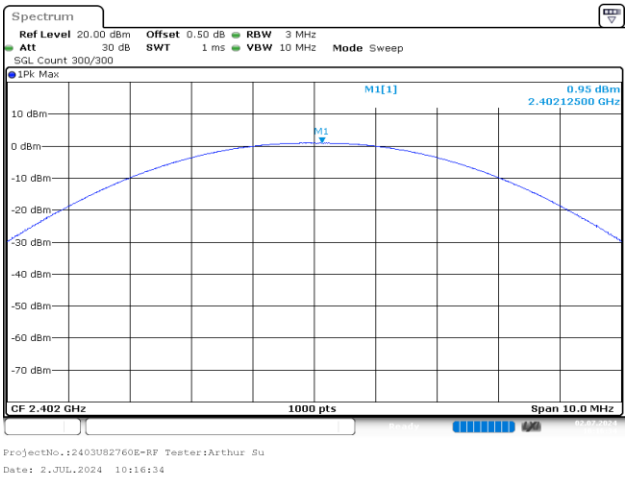


EDR

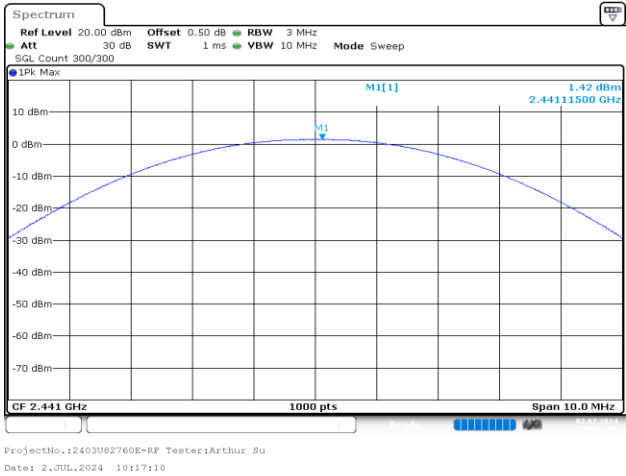
GFSK_High 1.02dBm



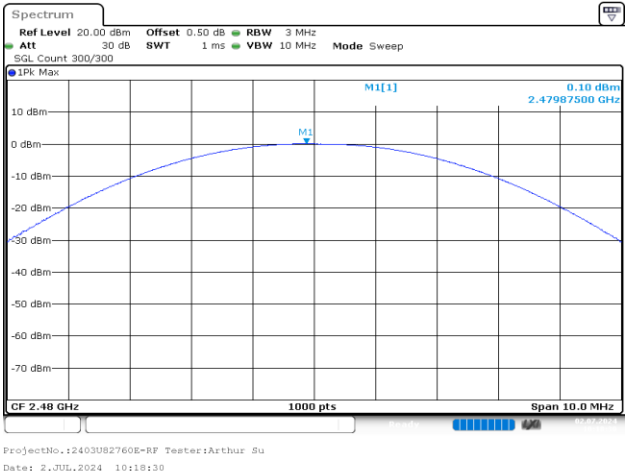
$\pi/4$ -DQPSK_Low 0.95dBm



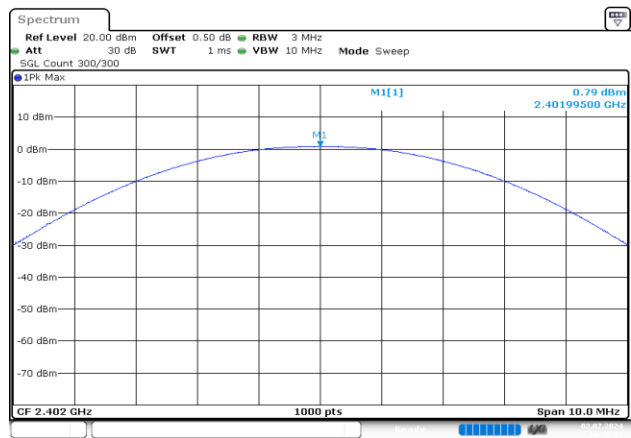
$\pi/4$ -DQPSK_Middle 1.42dBm



$\pi/4$ -DQPSK_High 0.10dBm

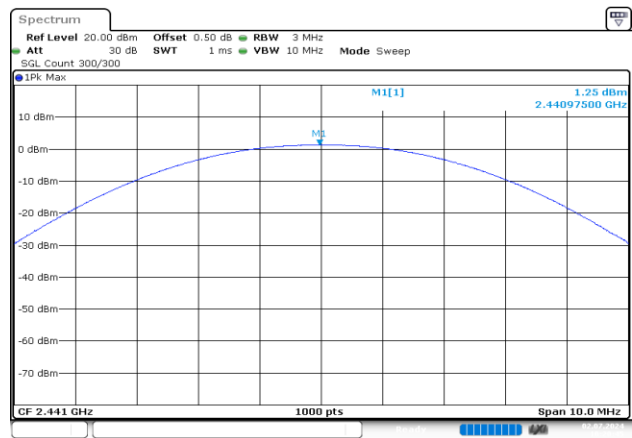


8DPSK_Low 0.79dBm



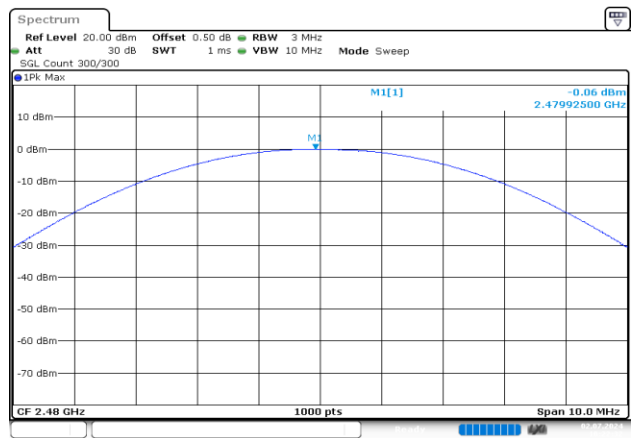
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:20:01

8DPSK_Middle 1.25dBm



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:20:45

8DPSK_High -0.06dBm



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 10:22:32

100 kHz Bandwidth of Frequency Band Edge**BDR**

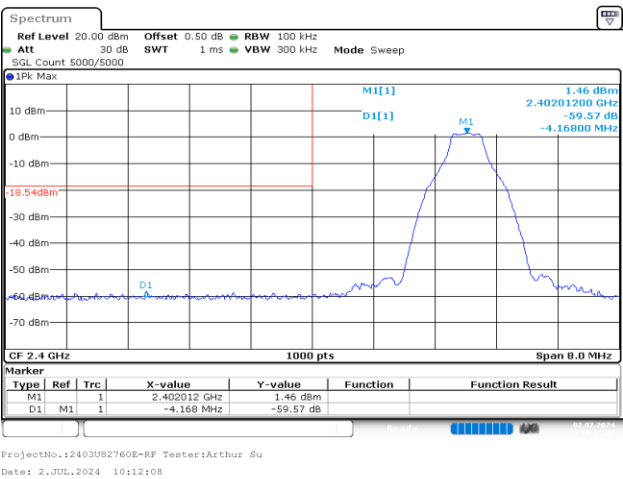
Mode	Value (dB)	Limit (dB)	Result
GFSK_Low	59.57	20.00	Pass
GFSK_High	58.38	20.00	Pass
GFSK_Hopping_Lower	60.40	20.00	Pass
GFSK_Hopping_Upper	59.58	20.00	Pass

EDR

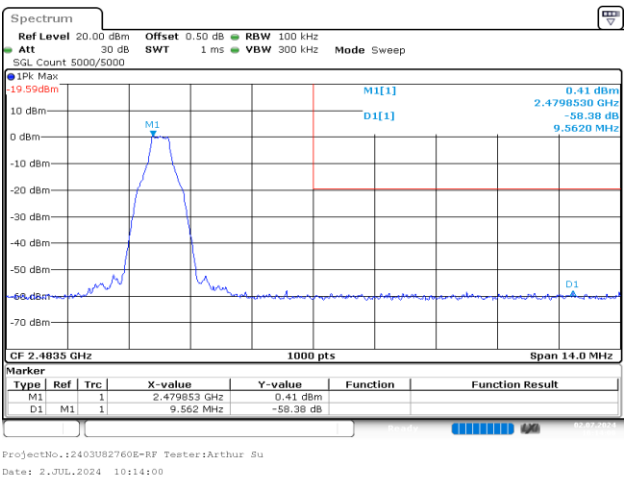
Mode	Value (dB)	Limit (dB)	Result
$\pi/4$ -DQPSK_Low	59.06	20.00	Pass
$\pi/4$ -DQPSK_High	58.30	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Lower	58.99	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Upper	59.06	20.00	Pass
8DPSK_Low	58.00	20.00	Pass
8DPSK_High	57.32	20.00	Pass
8DPSK_Hopping_Lower	59.22	20.00	Pass
8DPSK_Hopping_Upper	58.25	20.00	Pass

BDR

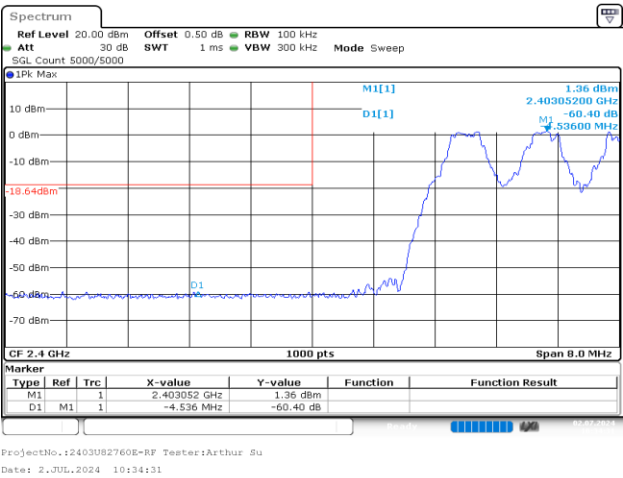
GFSK_Low 59.57dB



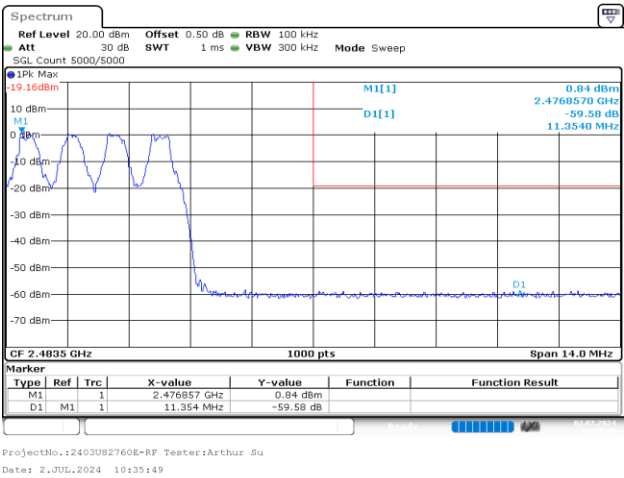
GFSK_High 58.38dB



GFSK_Hopping_Lower 60.40dB

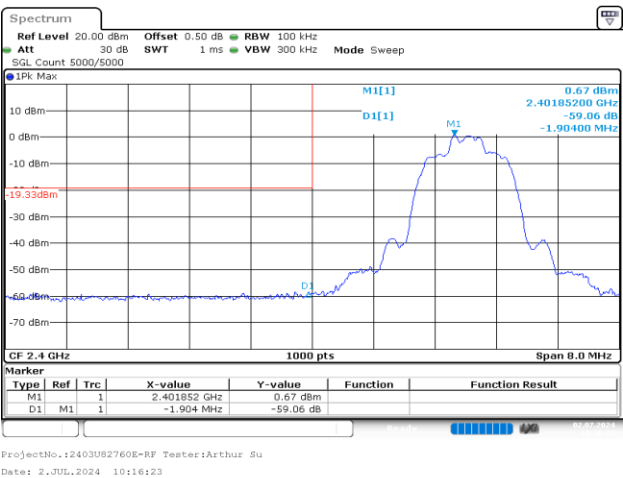


GFSK_Hopping_Upper 59.58dB

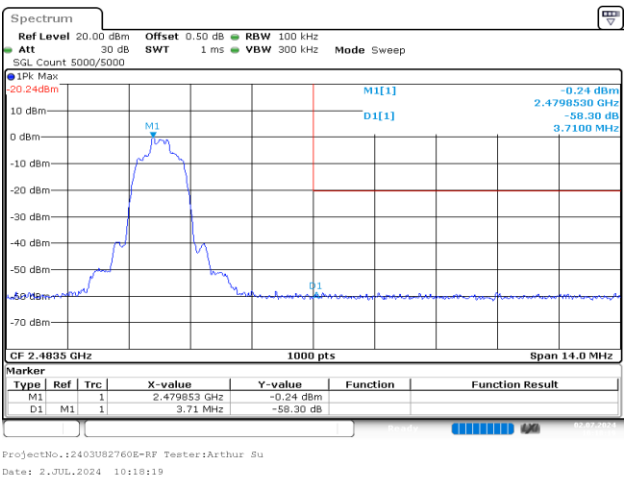


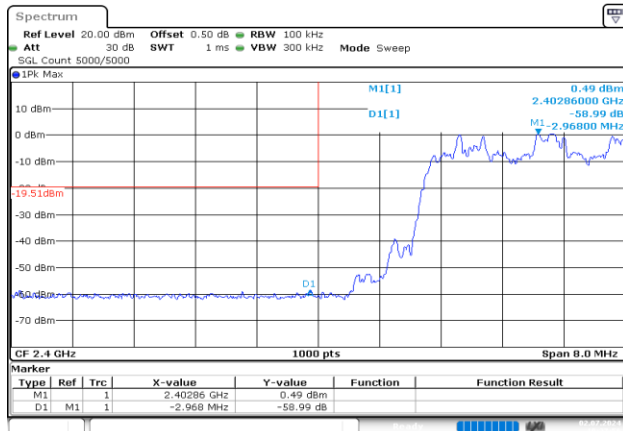
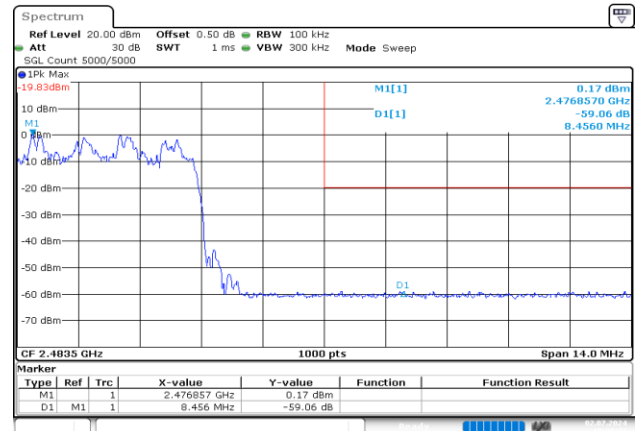
EDR

$\pi/4$ -DQPSK_Low 59.06dB

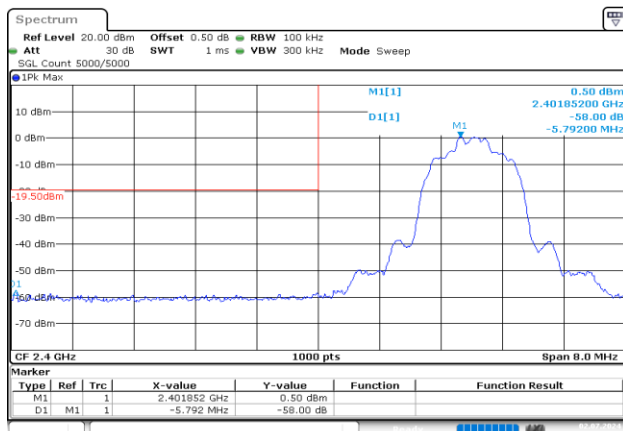


$\pi/4$ -DQPSK_High 58.30dB

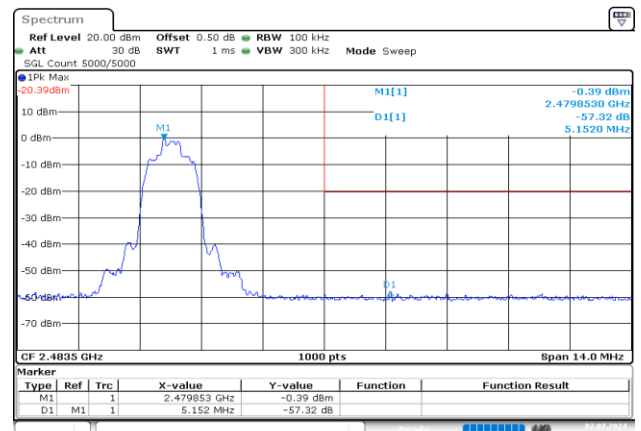


$\pi/4$ -DQPSK_Hopping_Lower 58.99dB $\pi/4$ -DQPSK_Hopping_Upper 59.06dB

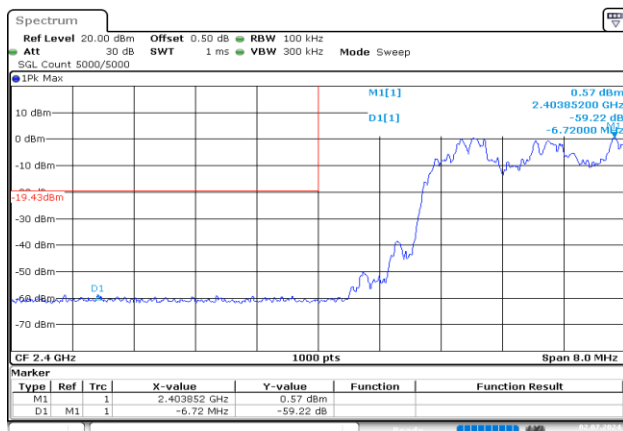
8DPSK_Low 58.00dB



8DPSK_High 57.32dB



8DPSK_Hopping_Lower 59.22dB



8DPSK_Hopping_Upper 58.25dB

