

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

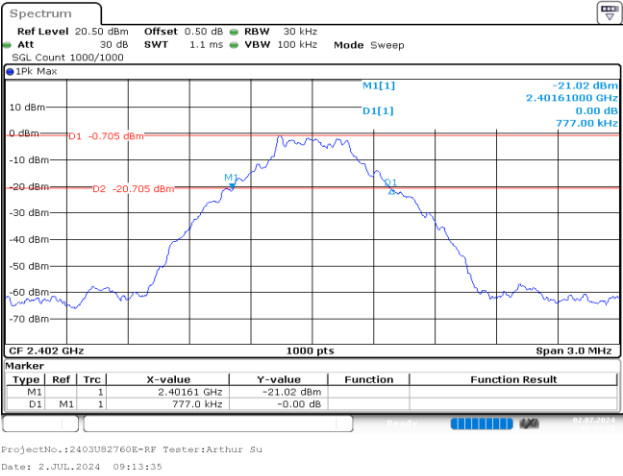
Mode	Value (MHz)
GFSK_Low	0.777
GFSK_Middle	0.774
GFSK_High	0.774

EDR

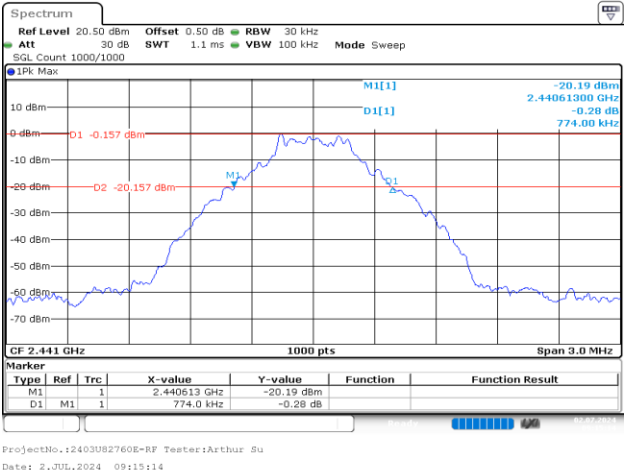
Mode	Value (MHz)
$\pi/4$ -DQPSK_Low	1.212
$\pi/4$ -DQPSK_Middle	1.215
$\pi/4$ -DQPSK_High	1.212
8DPSK_Low	1.221
8DPSK_Middle	1.221
8DPSK_High	1.221

BDR

GFSK_Low 0.777MHz

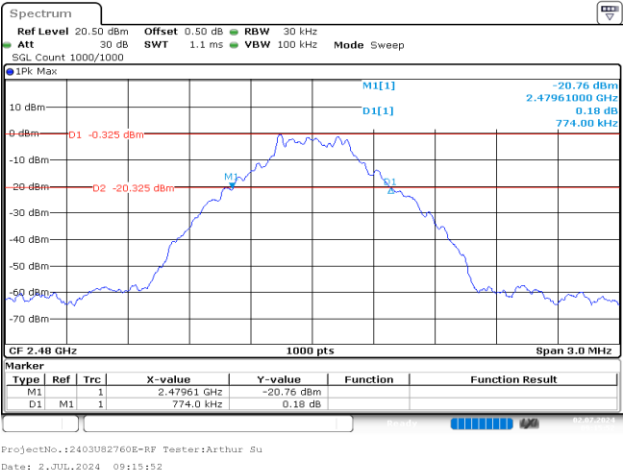


GFSK_Middle 0.774MHz

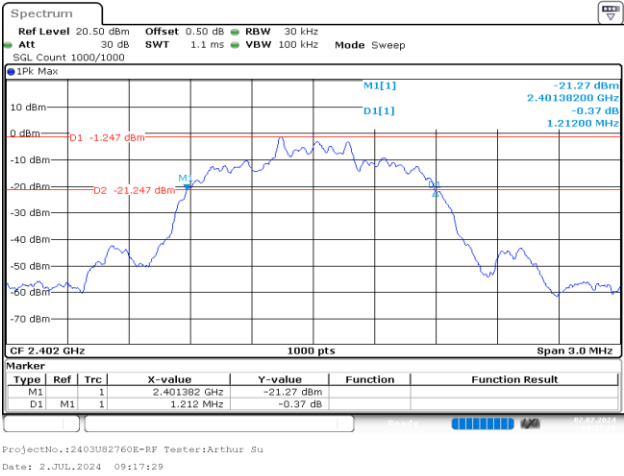


EDR

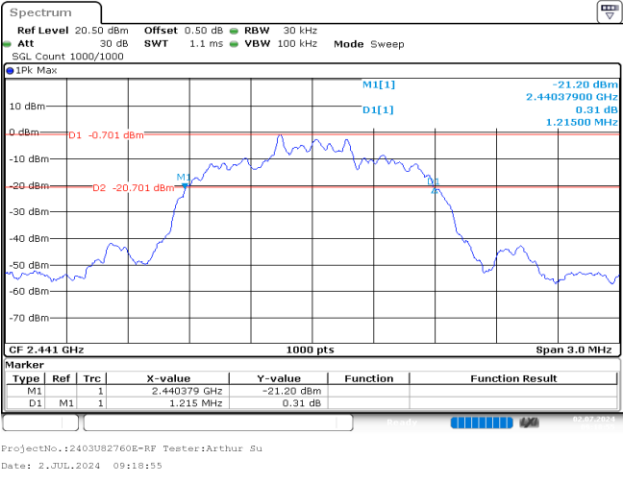
GFSK_High 0.774MHz



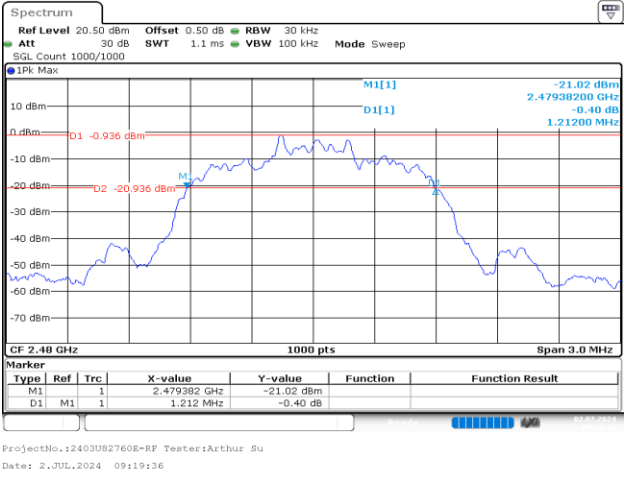
$\pi/4$ -DQPSK_Low 1.212MHz



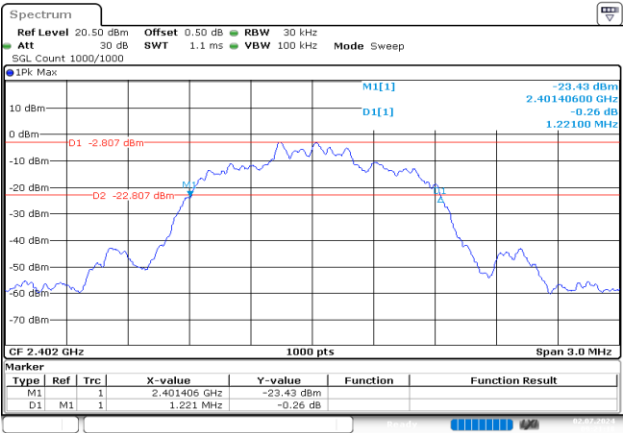
$\pi/4$ -DQPSK_Middle 1.215MHz



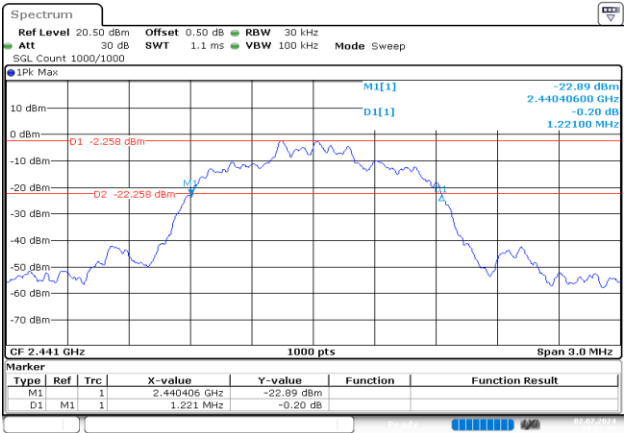
$\pi/4$ -DQPSK_High 1.212MHz



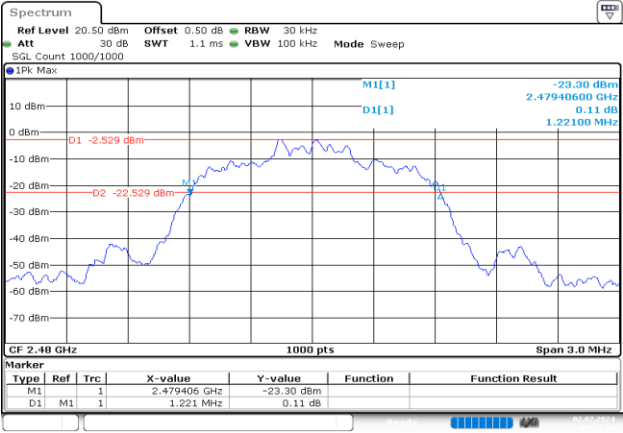
8DPSK_Low 1.221MHz



8DPSK_Middle 1.221MHz



8DPSK_High 1.221MHz



Channel Separation**BDR**

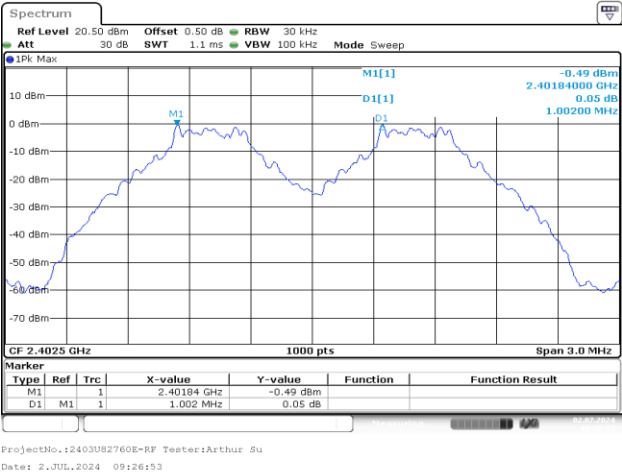
Mode	Value (MHz)	Limit (MHz)	Result
GFSK_Low	1.002	0.518	Pass
GFSK_Middle	1.005	0.516	Pass
GFSK_High	1.005	0.516	Pass

EDR

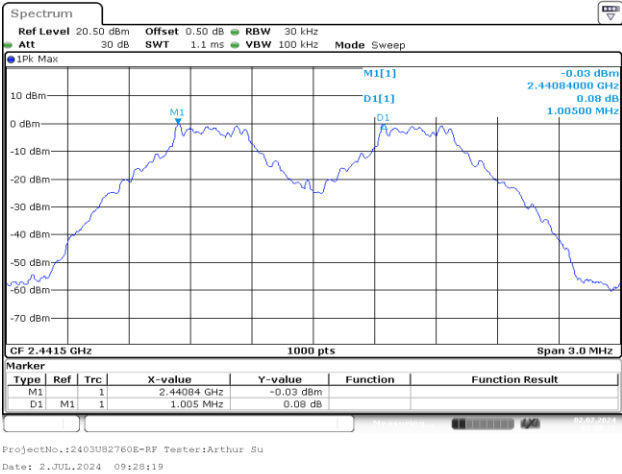
Mode	Value (MHz)	Limit (MHz)	Result
$\pi/4$ -DQPSK_Low	1.005	0.808	Pass
$\pi/4$ -DQPSK_Middle	1.005	0.810	Pass
$\pi/4$ -DQPSK_High	1.005	0.808	Pass
8DPSK_Low	1.002	0.814	Pass
8DPSK_Middle	1.002	0.814	Pass
8DPSK_High	1.005	0.814	Pass

BDR

GFSK_Low 1.002MHz

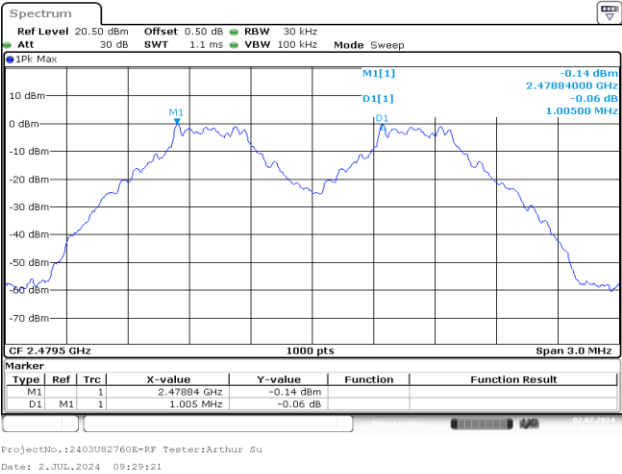


GFSK_Middle 1.005MHz

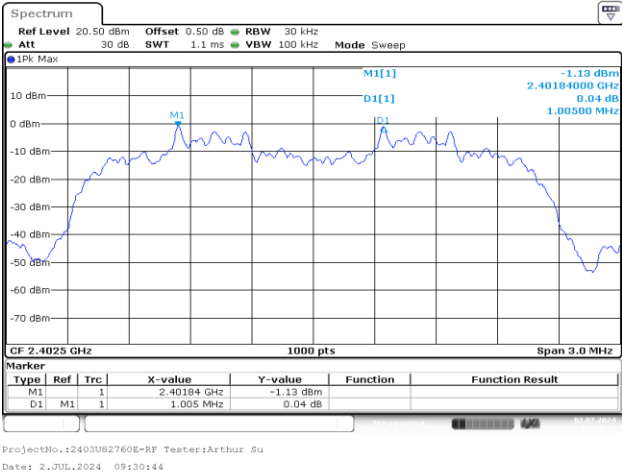


EDR

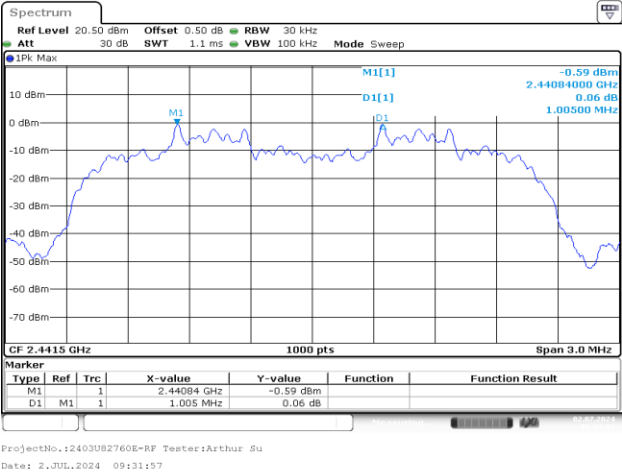
GFSK_High 1.005MHz



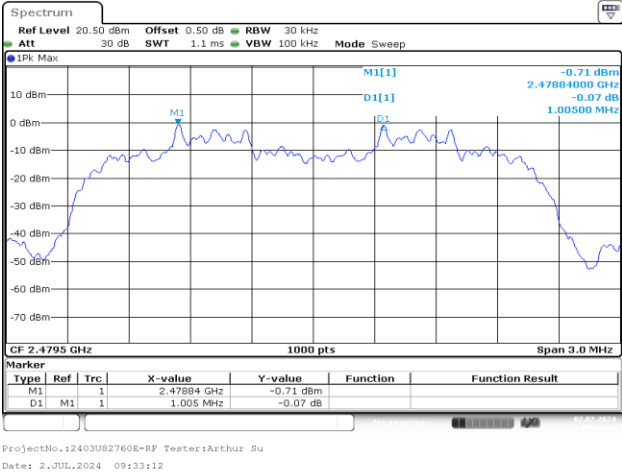
$\pi/4$ -DQPSK_Low 1.005MHz



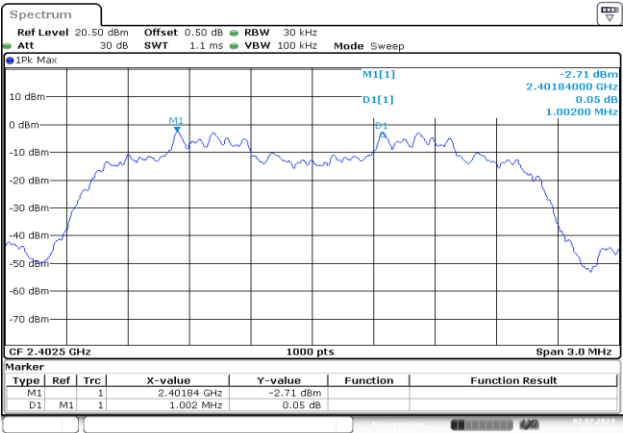
$\pi/4$ -DQPSK_Middle 1.005MHz



$\pi/4$ -DQPSK_High 1.005MHz

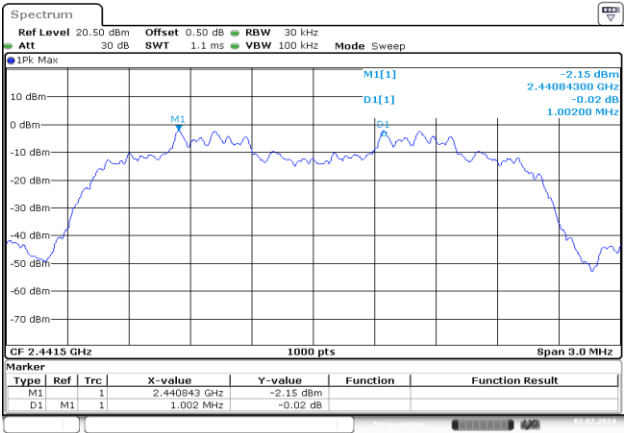


8DPSK_Low 1.002MHz



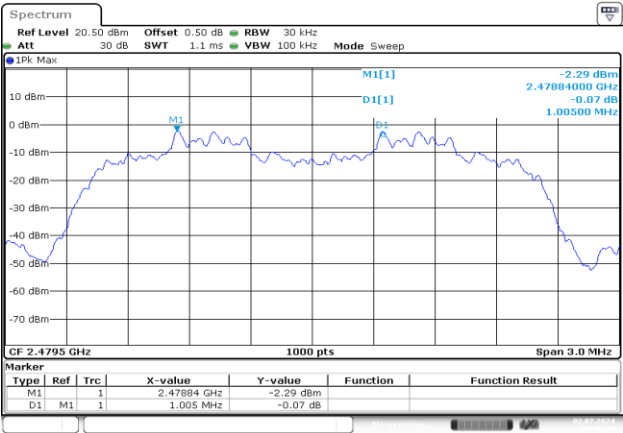
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:34:28

8DPSK_Middle 1.002MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:35:16

8DPSK_High 1.005MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:36:44

Number of Hopping Frequency

BDR

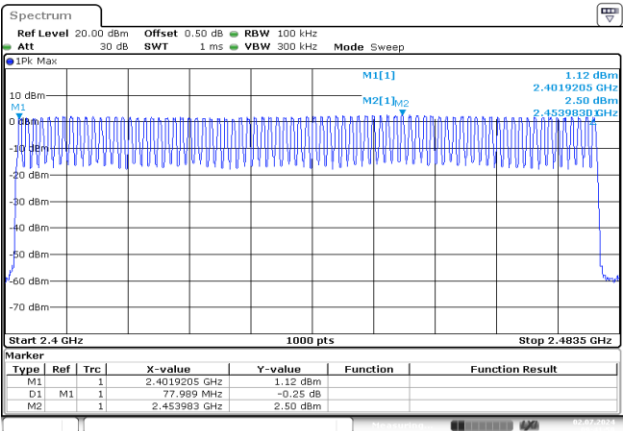
Mode	Value	Limit	Result
GFSK_Hopping	79	15	Pass

EDR

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

BDR

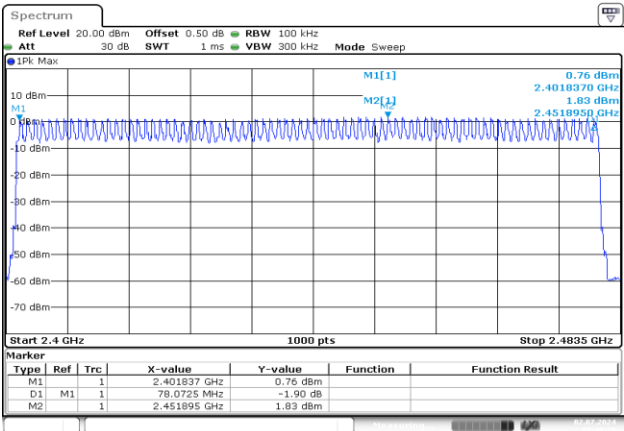
GFSK_Hopping 79



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:41:50

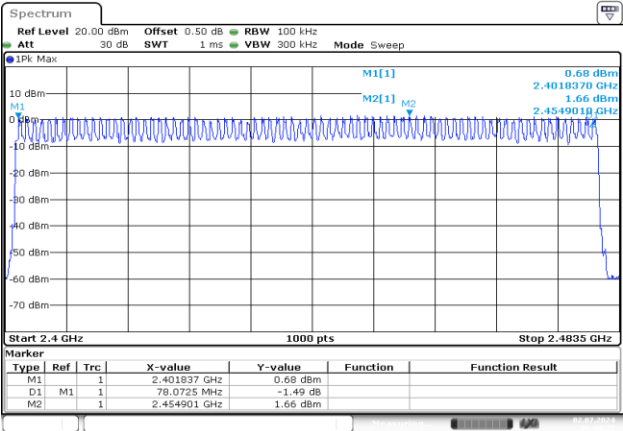
EDR

$\pi/4$ -DQPSK_Hopping 79



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:46:19

8DPSK_Hopping 79



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:48:39

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

Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
GFSK_Hopping_DH1	0.396	0.127	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	0.402	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	1.656	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

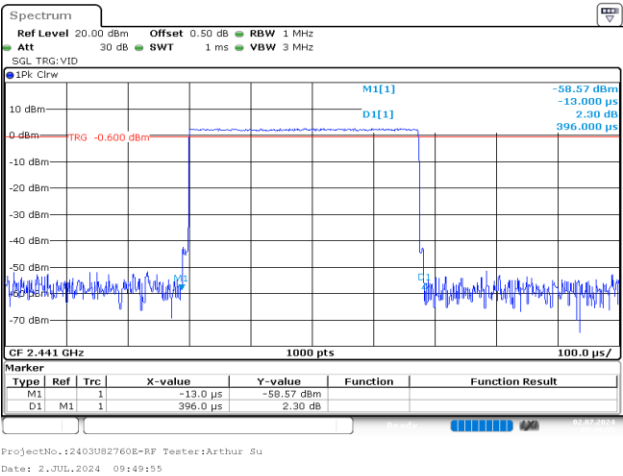
3DH1: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s

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

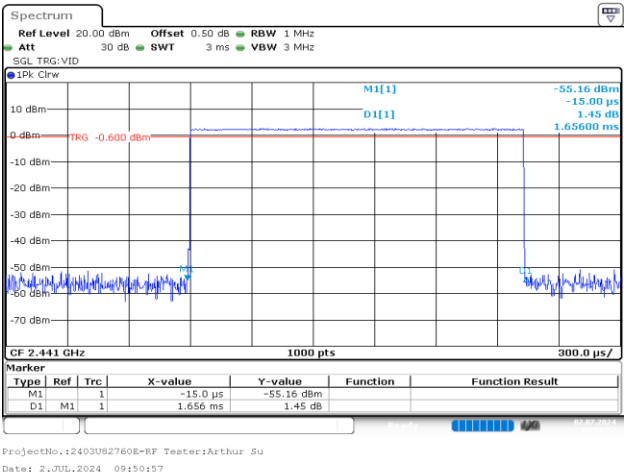
3DH5: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s

BDR

GFSK_Hopping_DH1 0.396ms

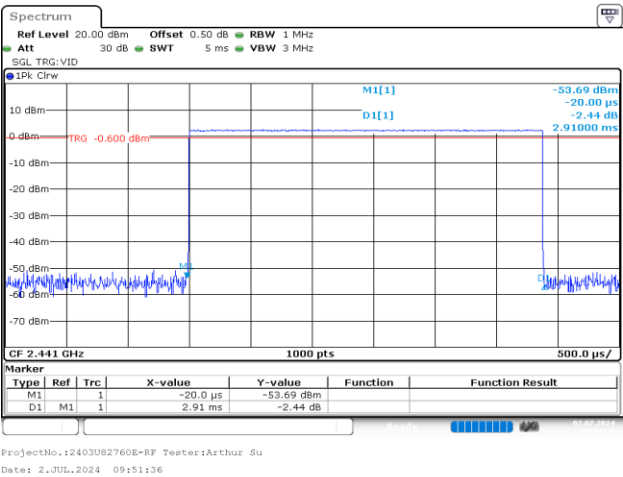


GFSK_Hopping_DH3 1.656ms

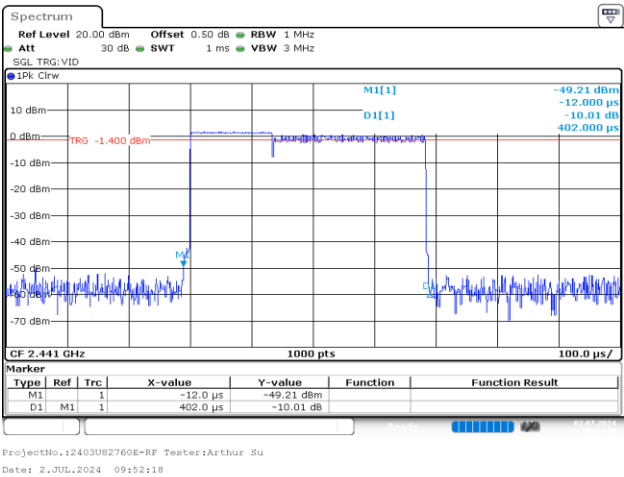


EDR

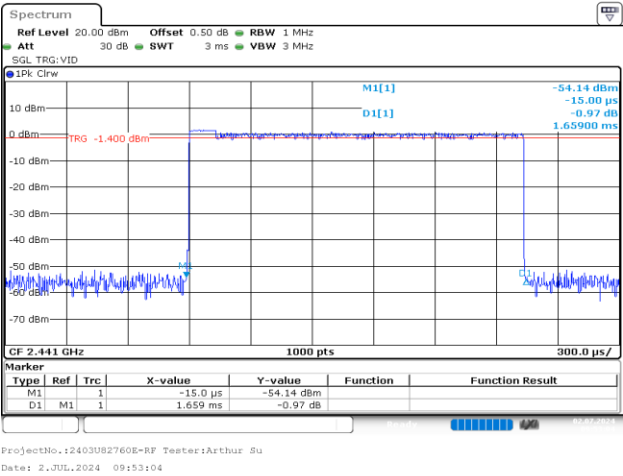
GFSK_Hopping_DH5 2.910ms



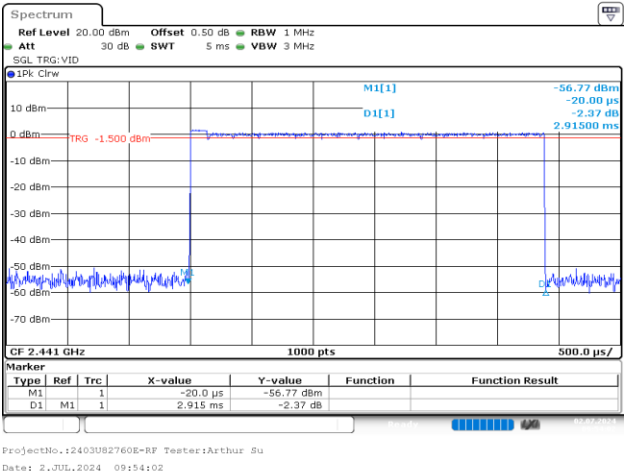
$\pi/4$ -DQPSK_Hopping_2DH1 0.402ms



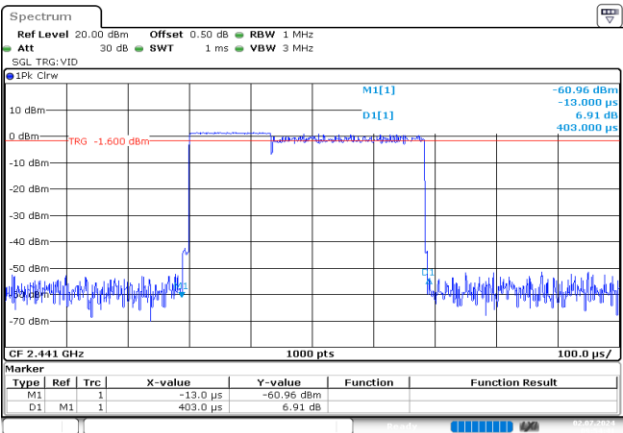
$\pi/4$ -DQPSK_Hopping_2DH3 1.659ms



$\pi/4$ -DQPSK_Hopping_2DH5 2.915ms

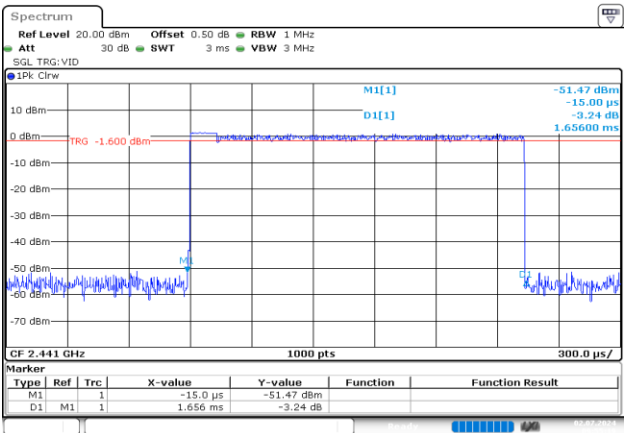


8DPSK_Hopping_3DH1 0.403ms



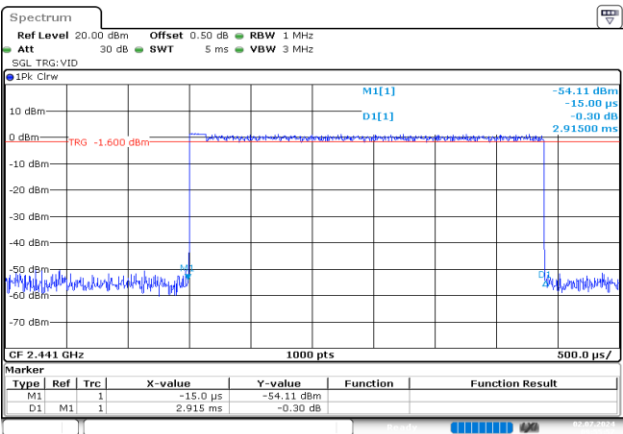
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:54:41

8DPSK_Hopping_3DH3 1.656ms



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:55:19

8DPSK_Hopping_3DH5 2.915ms



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:55:57

Maximum Conducted Output Power**BDR**

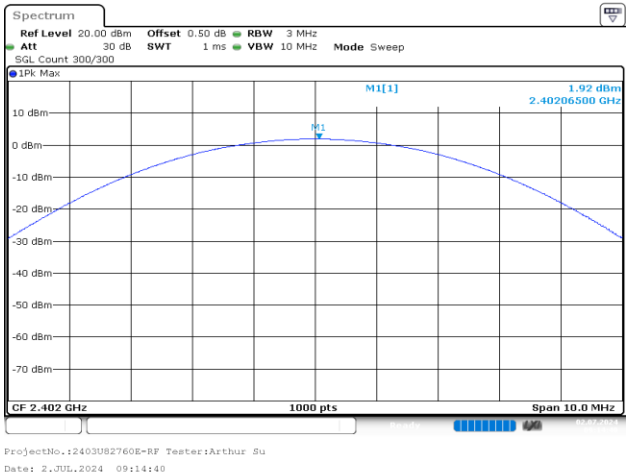
Mode	Value (dBm)	Limit (dBm)	Result
GFSK_Low	1.92	21.00	Pass
GFSK_Middle	2.31	21.00	Pass
GFSK_High	2.14	21.00	Pass

EDR

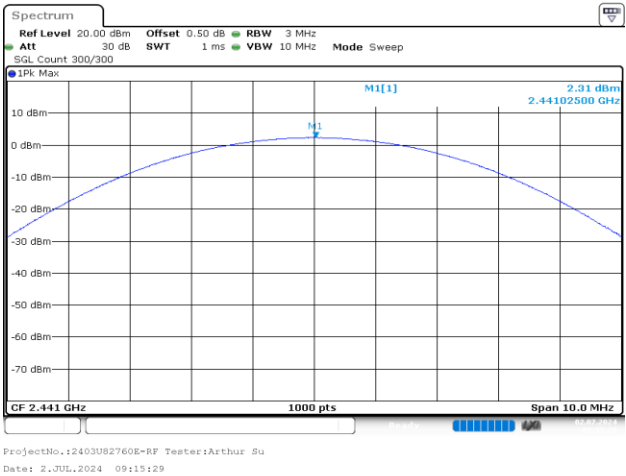
Mode	Value (dBm)	Limit (dBm)	Result
$\pi/4$ -DQPSK_Low	0.99	21.00	Pass
$\pi/4$ -DQPSK_Middle	1.51	21.00	Pass
$\pi/4$ -DQPSK_High	1.29	21.00	Pass
8DPSK_Low	0.86	21.00	Pass
8DPSK_Middle	1.40	21.00	Pass
8DPSK_High	1.16	21.00	Pass

BDR

GFSK_Low 1.92dBm

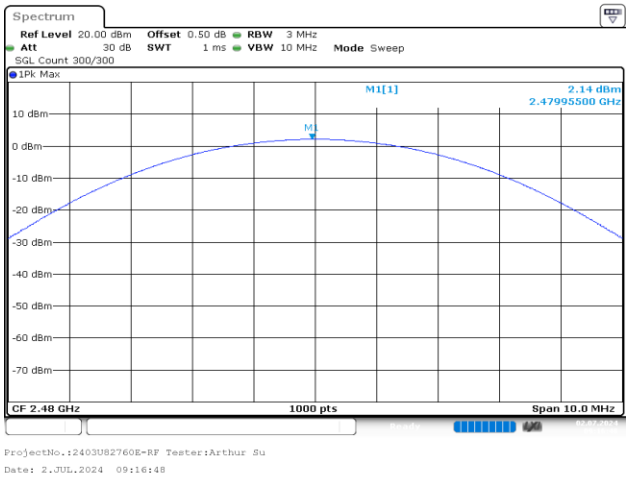


GFSK_Middle 2.31dBm

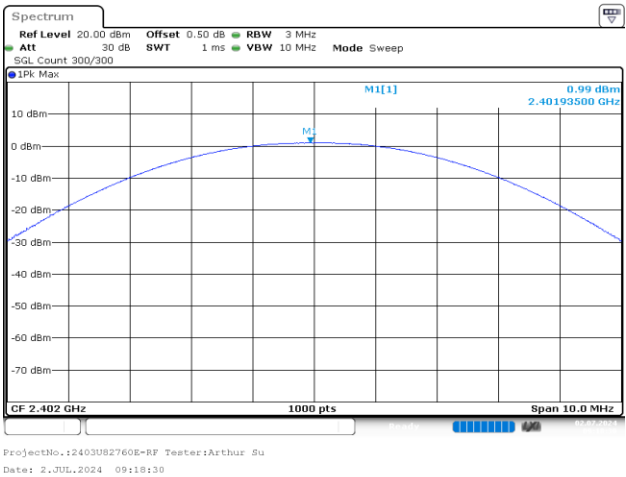


EDR

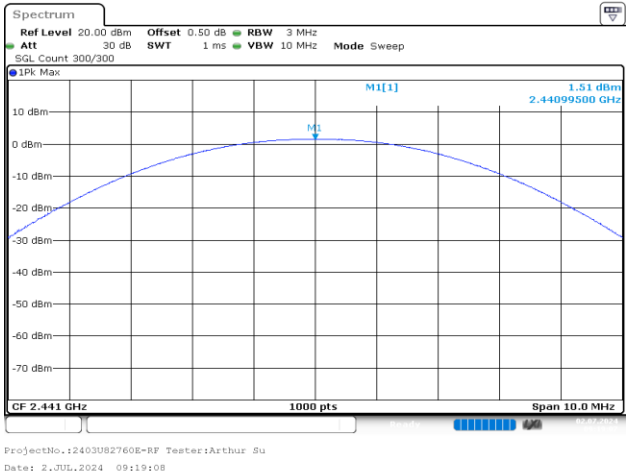
GFSK_High 2.14dBm



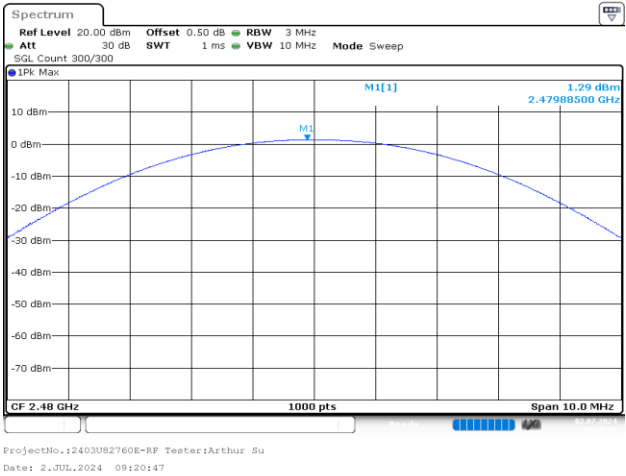
$\pi/4$ -DQPSK_Low 0.99dBm



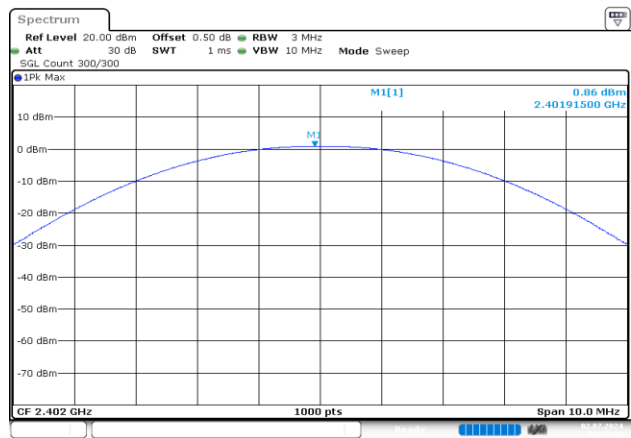
$\pi/4$ -DQPSK_Middle 1.51dBm



$\pi/4$ -DQPSK_High 1.29dBm

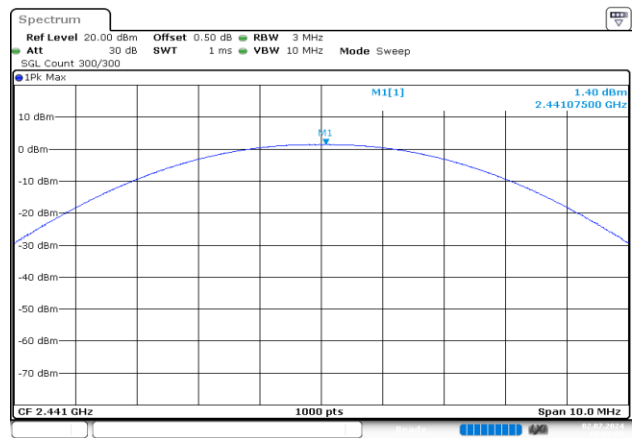


8DPSK_Low 0.86dBm



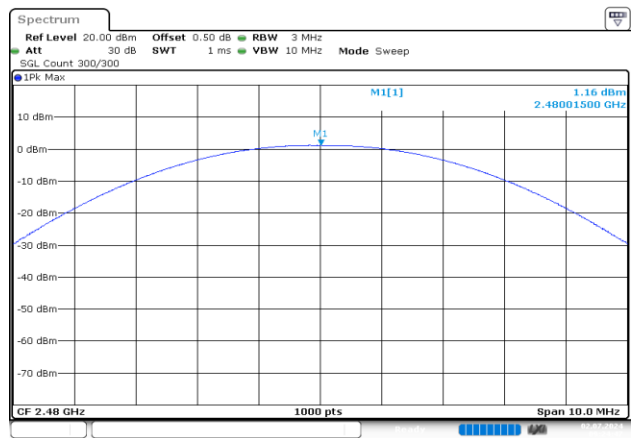
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:22:19

8DPSK_Middle 1.40dBm



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:23:00

8DPSK_High 1.16dBm



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:24:47

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

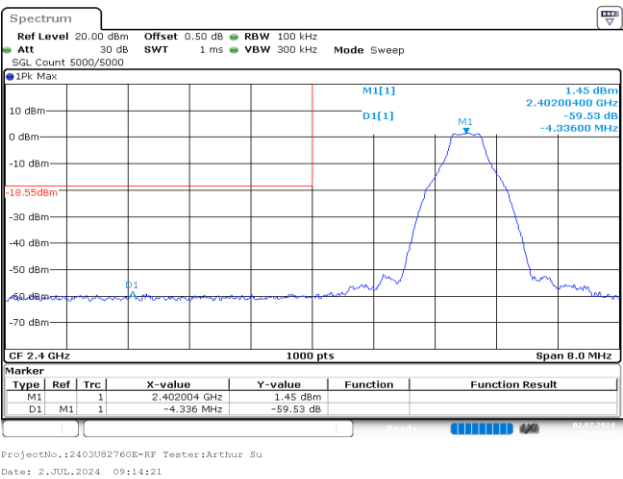
Mode	Value (dB)	Limit (dB)	Result
GFSK_Low	59.53	20.00	Pass
GFSK_High	59.86	20.00	Pass
GFSK_Hopping_Lower	60.51	20.00	Pass
GFSK_Hopping_Upper	60.10	20.00	Pass

EDR

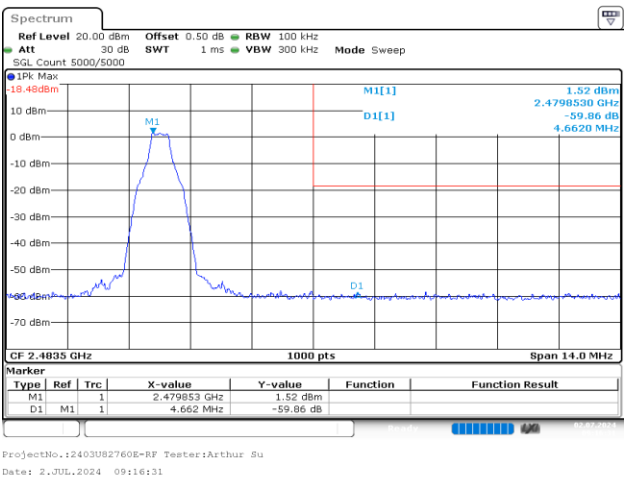
Mode	Value (dB)	Limit (dB)	Result
$\pi/4$ -DQPSK_Low	59.07	20.00	Pass
$\pi/4$ -DQPSK_High	59.22	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Lower	59.77	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Upper	58.94	20.00	Pass
8DPSK_Low	59.32	20.00	Pass
8DPSK_High	59.40	20.00	Pass
8DPSK_Hopping_Lower	58.13	20.00	Pass
8DPSK_Hopping_Upper	59.00	20.00	Pass

BDR

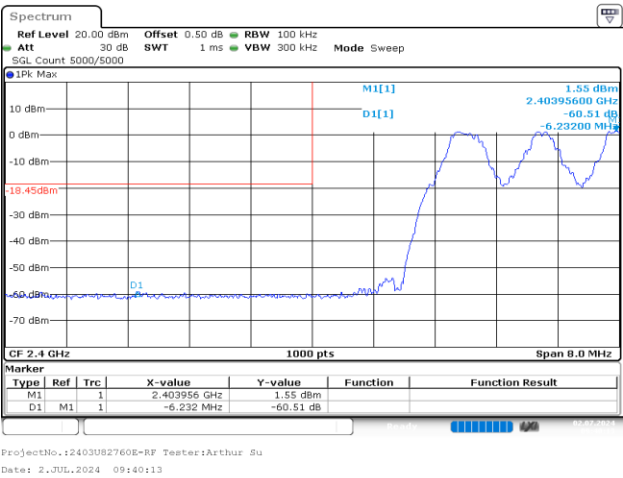
GFSK_Low 59.53dB



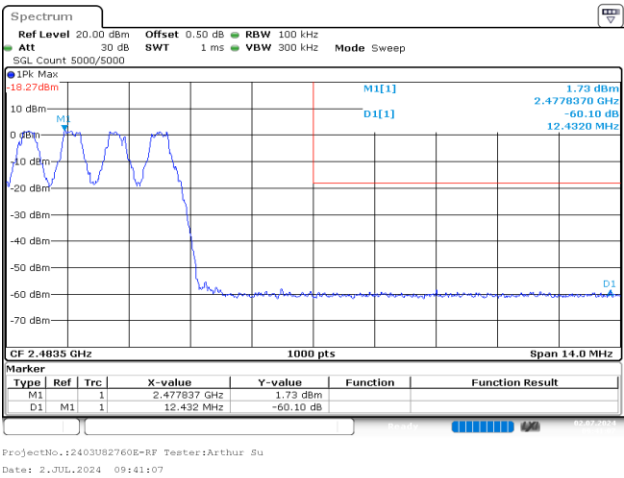
GFSK_High 59.86dB



GFSK_Hopping_Lower 60.51dB

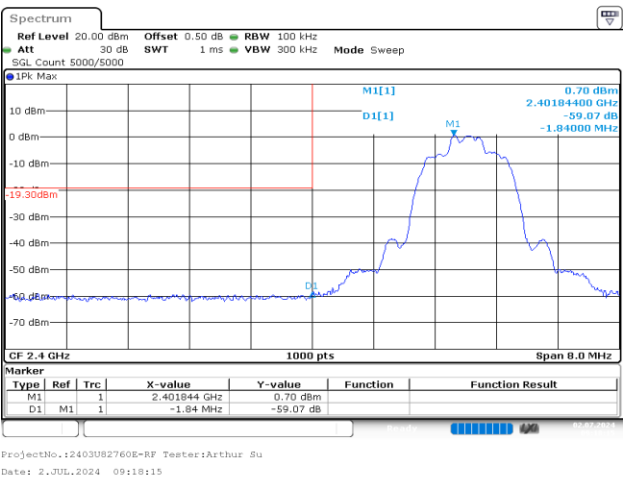


GFSK_Hopping_Upper 60.10dB

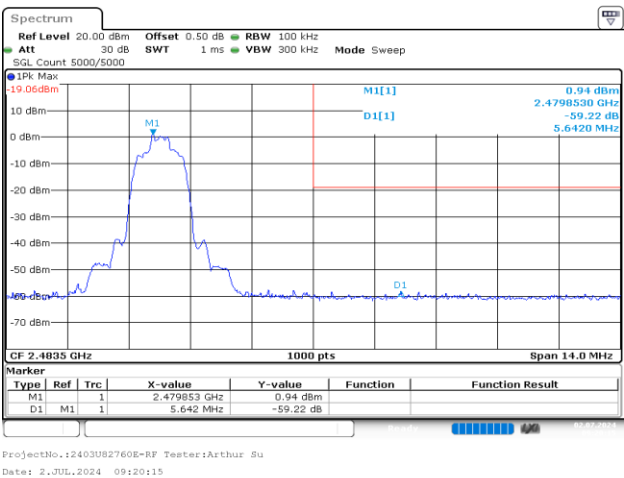


EDR

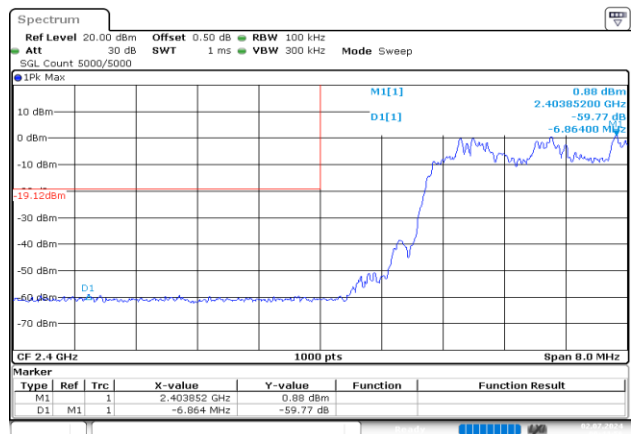
$\pi/4$ -DQPSK_Low 59.07dB



$\pi/4$ -DQPSK_High 59.22dB

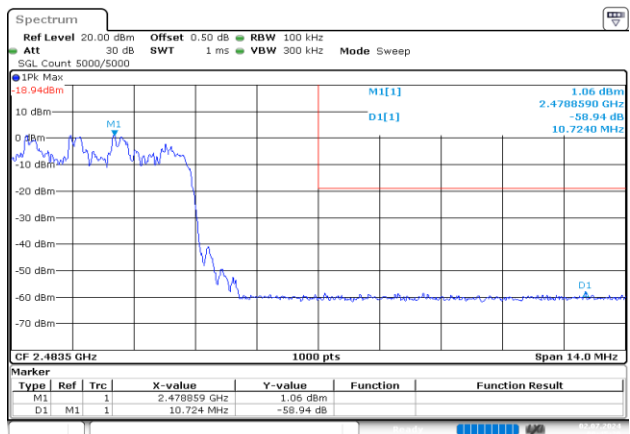


$\pi/4$ -DQPSK_Hopping_Lower 59.77dB



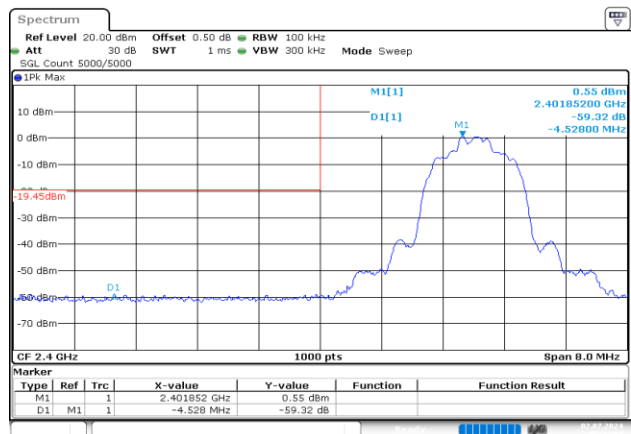
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:44:56

$\pi/4$ -DQPSK_Hopping_Upper 58.94dB



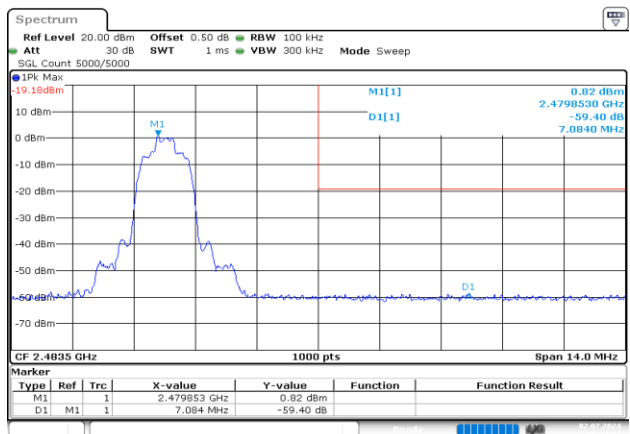
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:45:39

8DPSK_Low 59.32dB



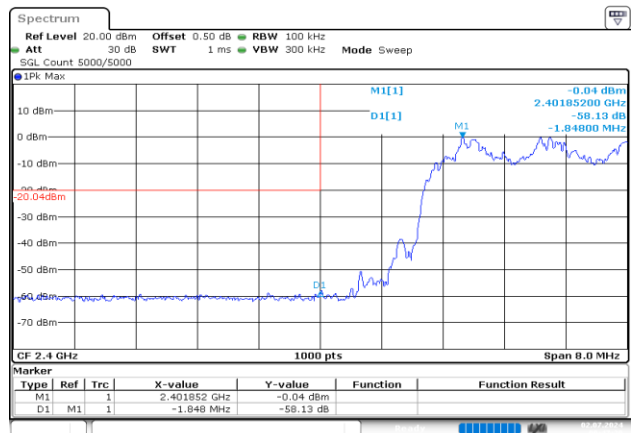
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:22:04

8DPSK_High 59.40dB



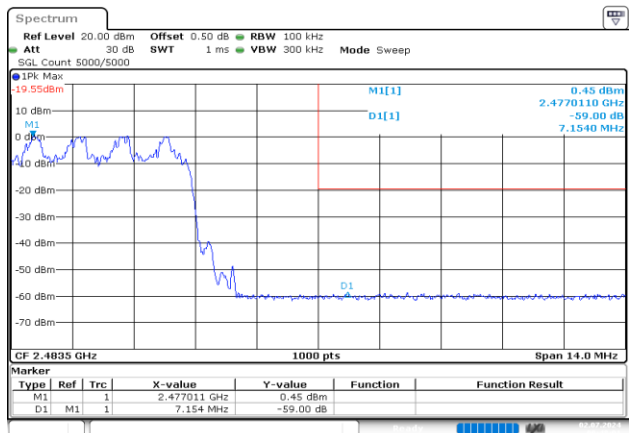
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:24:33

8DPSK_Hopping_Lower 58.13dB



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:47:20

8DPSK_Hopping_Upper 59.00dB



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 2.JUL.2024 09:48:01