

Test Information:

Serial No.:	2N75-2	Test Date:	2024/07/11~2024/07/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Chin Qin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25.9-26.1	Relative Humidity: (%)	53-58	ATM Pressure: (kPa)	100.1-100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	NCR	NCR
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31

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

20 dB Emission Bandwidth**BDR**

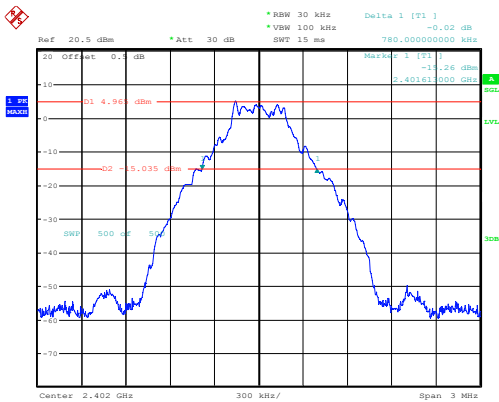
Mode	Value (MHz)
GFSK_Low	0.780
GFSK_Middle	0.780
GFSK_High	0.777

EDR

Mode	Value (MHz)
$\pi/4$ -DQPSK_Low	1.212
$\pi/4$ -DQPSK_Middle	1.212
$\pi/4$ -DQPSK_High	1.212
8DPSK_Low	1.221
8DPSK_Middle	1.224
8DPSK_High	1.221

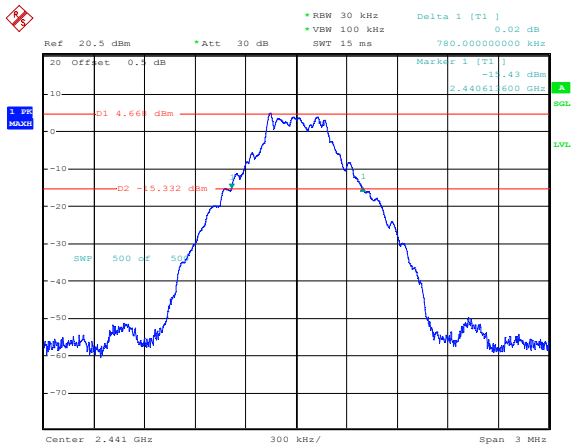
BDR

GFSK_Low 0.780MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 22:57:50

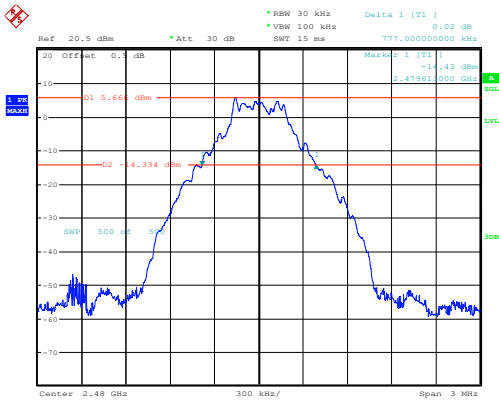
GFSK_Middle 0.780MHz



Comment: ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 24.JUL.2024 20:36:13

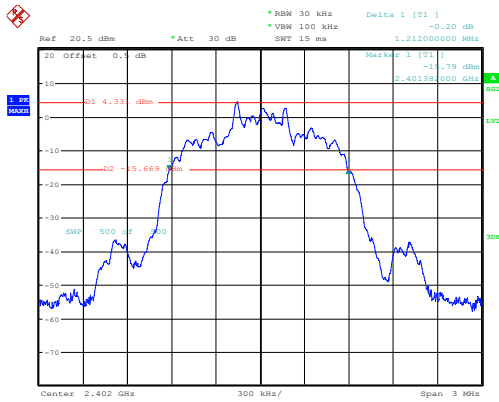
EDR

GFSK_High 0.777MHz



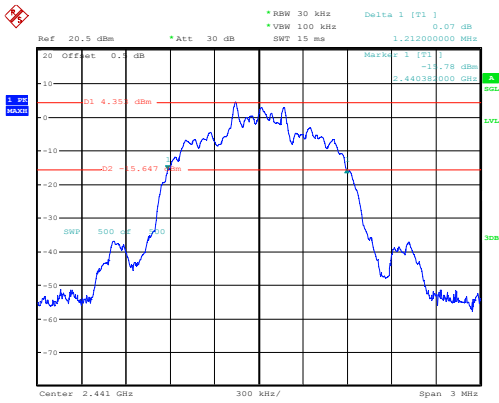
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:05:34

$\pi/4$ -DQPSK_Low 1.212MHz



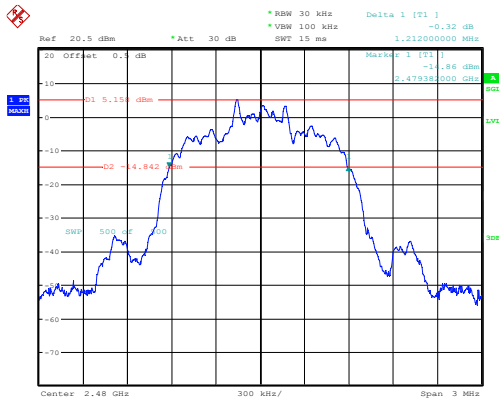
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:14:59

$\pi/4$ -DQPSK_Middle 1.212MHz



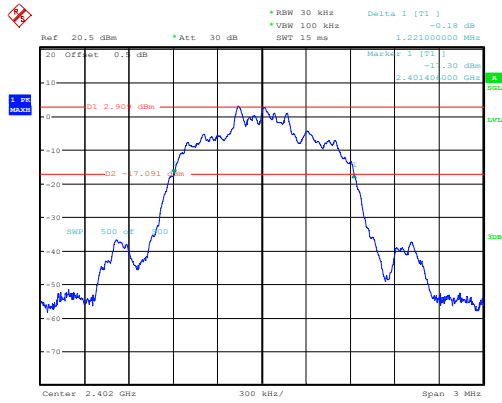
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:20:41

$\pi/4$ -DQPSK_High 1.212MHz



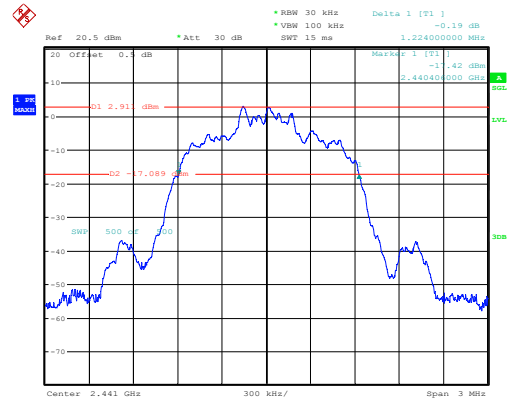
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:24:31

8DPSK_Low 1.221MHz



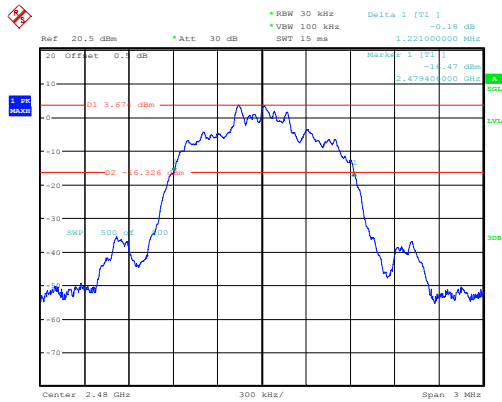
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:33:22

8DPSK_Middle 1.224MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:37:33

8DPSK_High 1.221MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:40:13

99% Occupied Bandwidth**BDR**

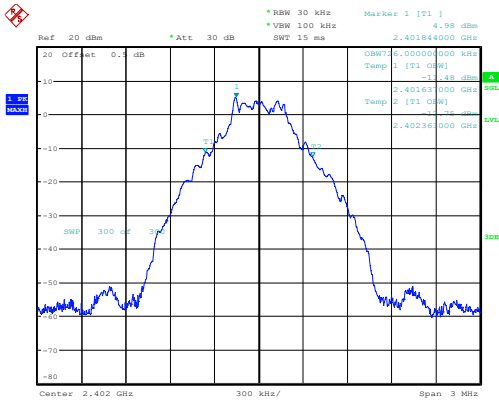
Mode	99% OBW (MHz)
GFSK_Low	0.726
GFSK_Middle	0.726
GFSK_High	0.726

EDR

Mode	99% OBW (MHz)
$\pi/4$ -DQPSK_Low	1.131
$\pi/4$ -DQPSK_Middle	1.134
$\pi/4$ -DQPSK_High	1.134
8DPSK_Low	1.125
8DPSK_Middle	1.125
8DPSK_High	1.125

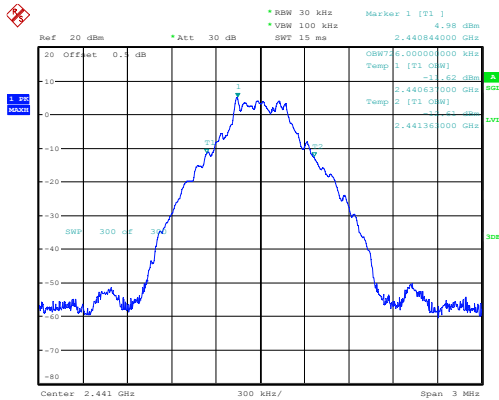
BDR

GFSK_Low 0.726MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 22:59:00

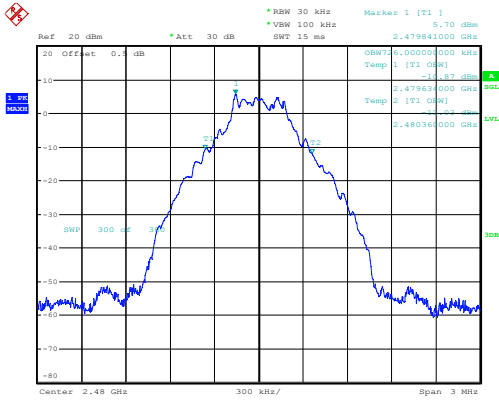
GFSK_Middle 0.726MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:02:14

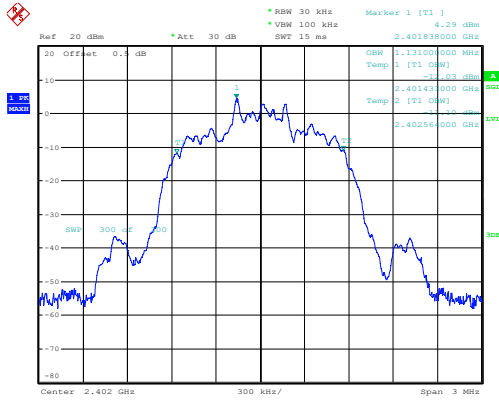
EDR

GFSK_High 0.726MHz



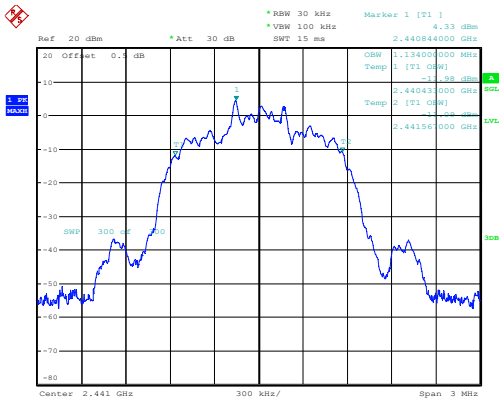
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:06:59

$\pi/4$ -DQPSK_Low 1.131MHz



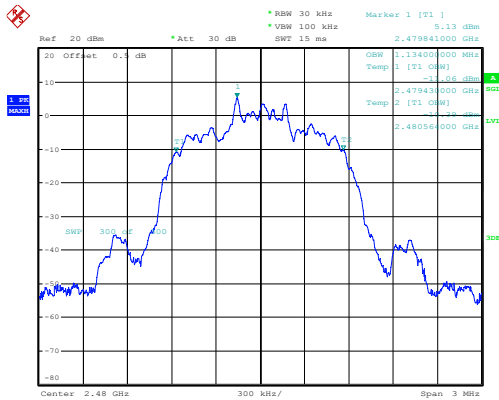
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:16:09

$\pi/4$ -DQPSK_Middle 1.134MHz



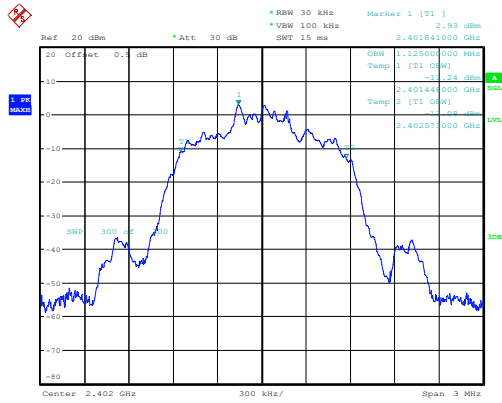
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:21:03

$\pi/4$ -DQPSK_High 1.134MHz



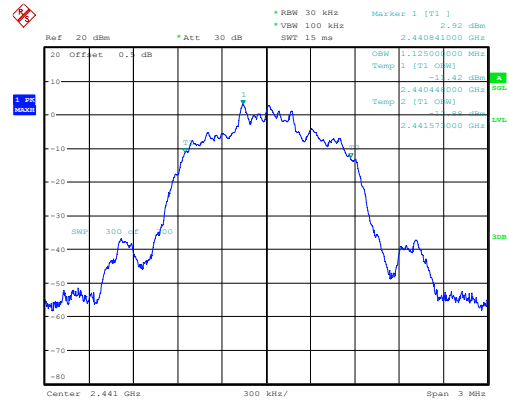
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:25:56

8DPSK_Low 1.125MHz



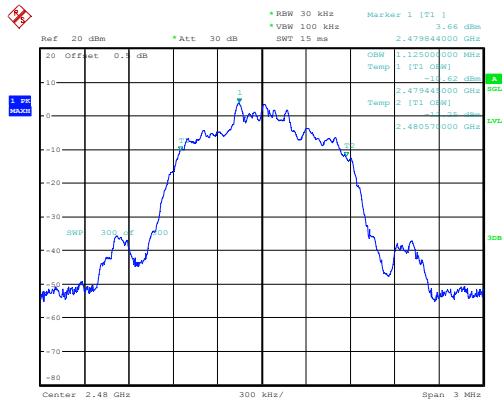
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:34:33

8DPSK_Middle 1.125MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:37:56

8DPSK_High 1.125MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:41:39

Channel Separation**BDR**

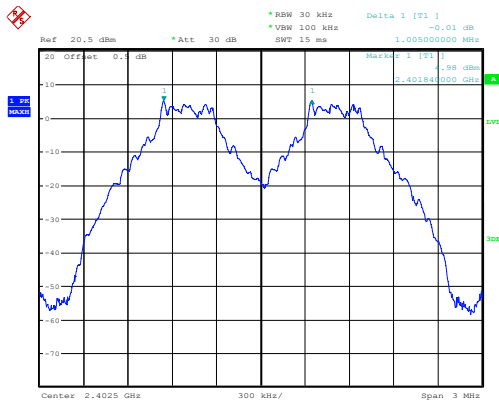
Mode	Value (MHz)	Limit (MHz)	Result
GFSK_Low	1.005	0.520	Pass
GFSK_Middle	0.999	0.520	Pass
GFSK_High	1.002	0.518	Pass

EDR

Mode	Value (MHz)	Limit (MHz)	Result
$\pi/4$ -DQPSK_Low	0.999	0.808	Pass
$\pi/4$ -DQPSK_Middle	0.999	0.808	Pass
$\pi/4$ -DQPSK_High	0.999	0.808	Pass
8DPSK_Low	1.002	0.814	Pass
8DPSK_Middle	0.999	0.816	Pass
8DPSK_High	1.002	0.814	Pass

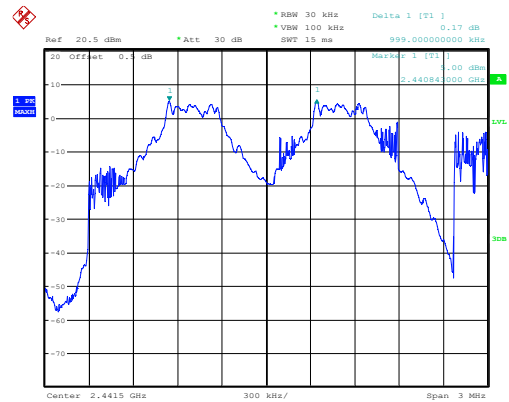
BDR

GFSK_Low 1.005MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:00:53

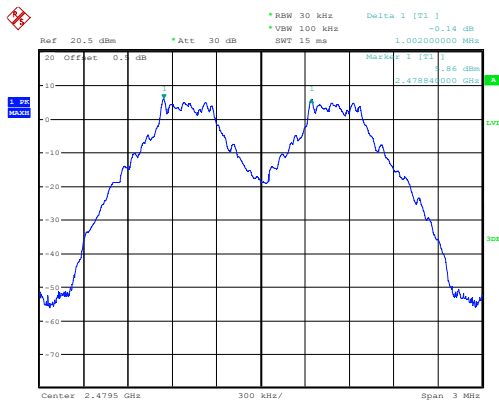
GFSK_Middle 0.999MHz



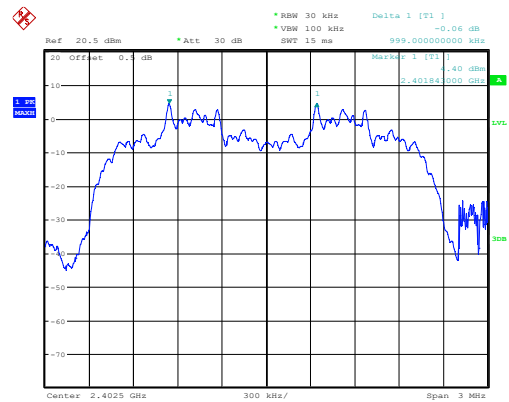
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:04:10

EDR

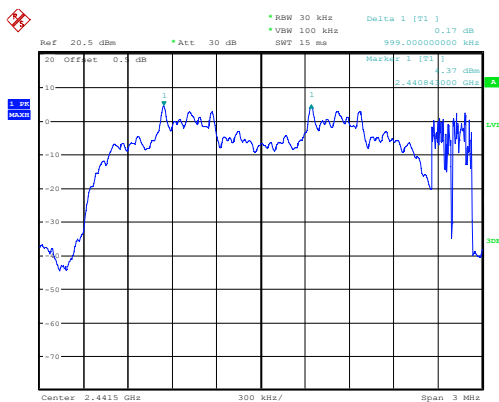
GFSK_High 1.002MHz



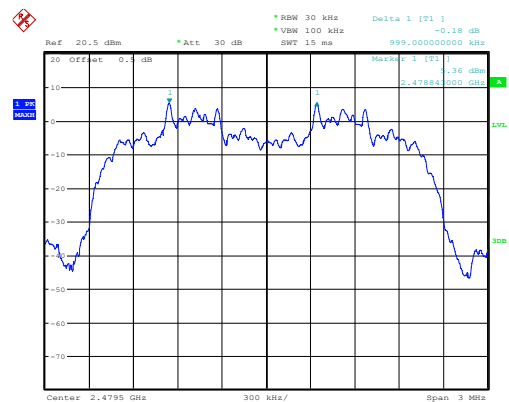
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:10:00

 $\pi/4$ -DQPSK_Low 0.999MHz

ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:18:52

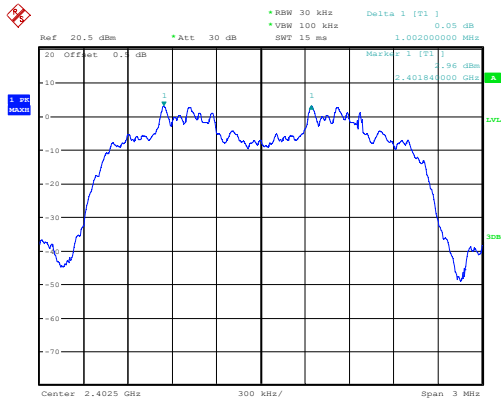
 $\pi/4$ -DQPSK_Middle 0.999MHz

ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:22:40

 $\pi/4$ -DQPSK_High 0.999MHz

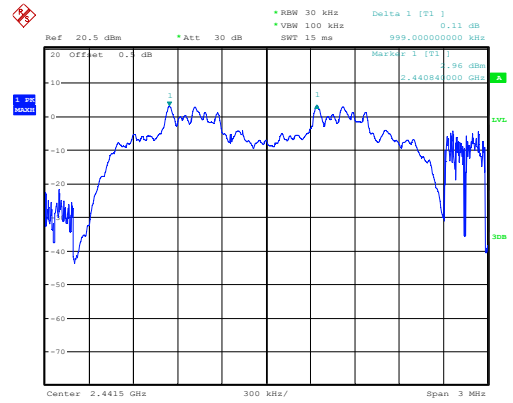
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:28:33

8DPSK_Low 1.002MHz



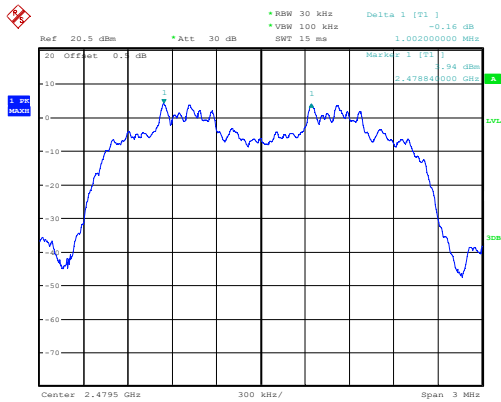
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:36:41

8DPSK_Middle 0.999MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:39:12

8DPSK_High 1.002MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:44:54

Number of Hopping Frequency**BDR**

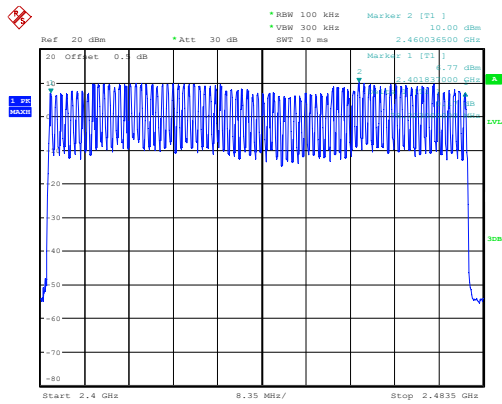
Mode	Value	Limit	Result
GFSK_Hopping	79	15	Pass

EDR

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

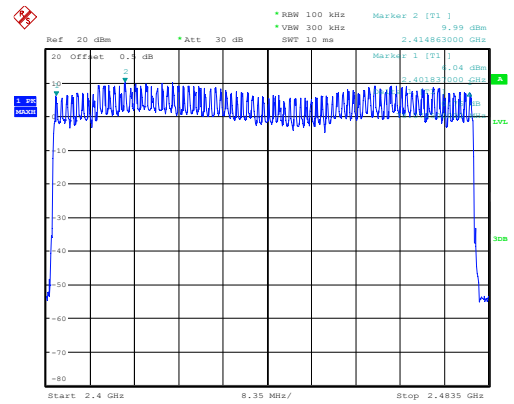
BDR

GFSK_Hopping 79



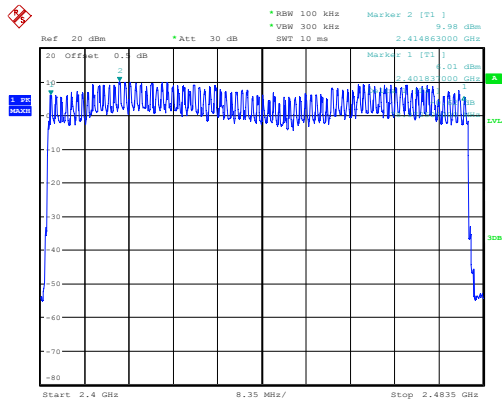
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 12.JUL.2024 00:01:49

EDR

 $\pi/4$ -DQPSK_Hopping 79

ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 12.JUL.2024 00:06:05

8DPSK_Hopping 79



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 12.JUL.2024 00:12:07

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	1.660	0.266	0.400	Pass
GFSK_Hopping_DH5	2.932	0.313	0.400	Pass

EDR

Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
$\pi/4$ - DQPSK_Hopping_2DH 1	0.402	0.129	0.400	Pass
$\pi/4$ - DQPSK_Hopping_2DH 3	1.663	0.266	0.400	Pass
$\pi/4$ - DQPSK_Hopping_2DH 5	2.932	0.313	0.400	Pass
8DPSK_Hopping_3DH1	0.402	0.129	0.400	Pass
8DPSK_Hopping_3DH3	1.663	0.266	0.400	Pass
8DPSK_Hopping_3DH5	2.932	0.313	0.400	Pass

Note:

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

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

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

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

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

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

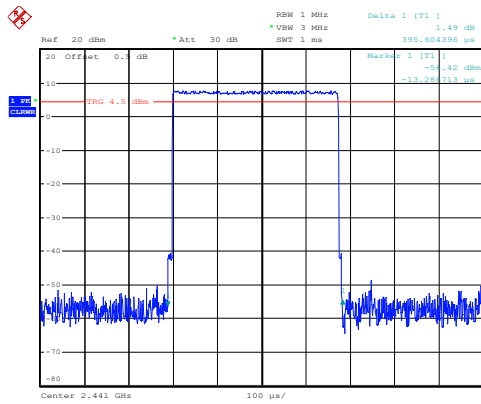
3DH1: Dwell time=Pulse width (ms) $\times$ (1600/2/79) $\times$ 31.6 s

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

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

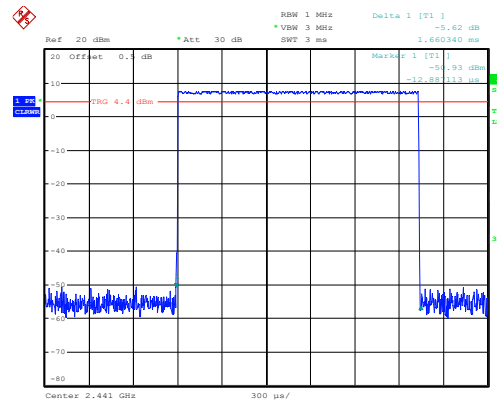
BDR

GFSK_Hopping_DH1 0.396ms



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:51:59

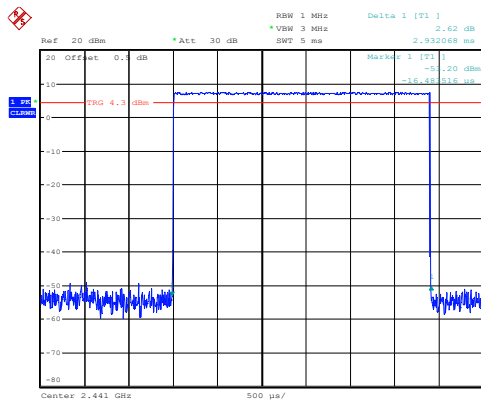
GFSK_Hopping_DH3 1.660ms



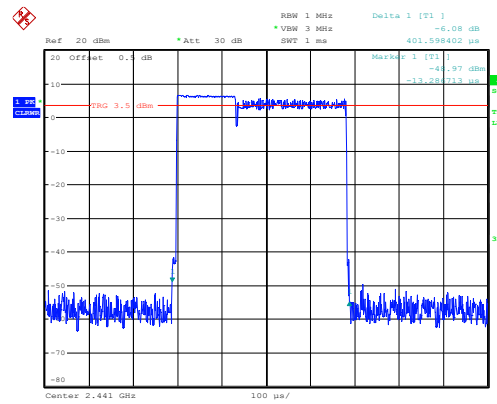
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:52:38

EDR

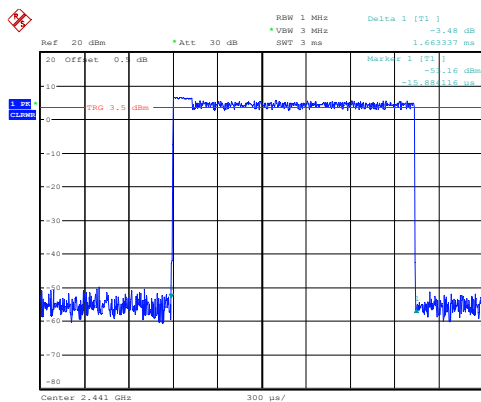
GFSK_Hopping_DH5 2.932ms



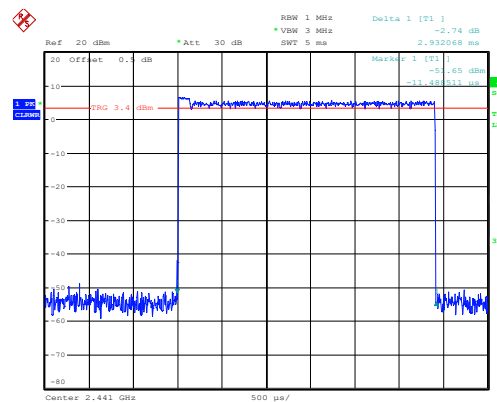
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:53:14

 $\pi/4$ -DQPSK_Hopping_2DH1 0.402ms

ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:53:50

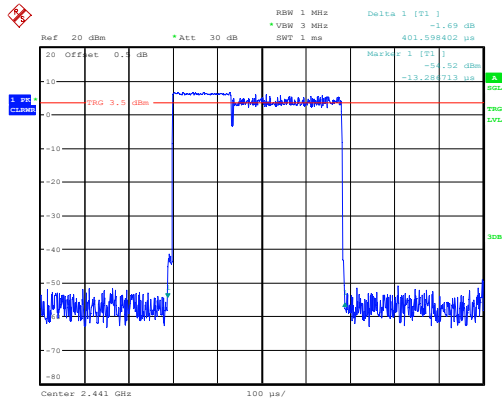
 $\pi/4$ -DQPSK_Hopping_2DH3 1.663ms

ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:54:22

 $\pi/4$ -DQPSK_Hopping_2DH5 2.932ms

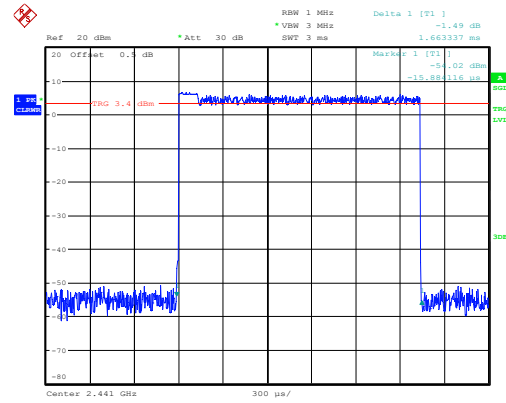
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:54:57

8DPSK_Hopping_3DH1 0.402ms



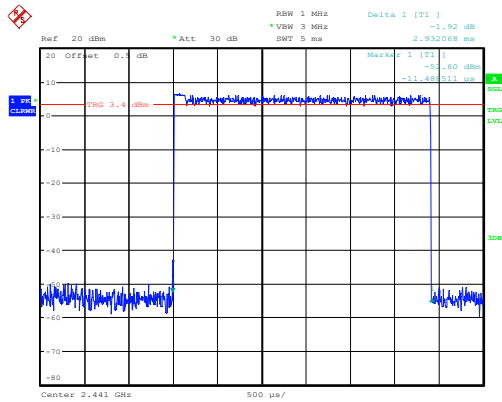
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:55:31

8DPSK_Hopping_3DH3 1.663ms



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:58:02

8DPSK_Hopping_3DH5 2.932ms



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:58:48

Maximum Conducted Output Power**BDR**

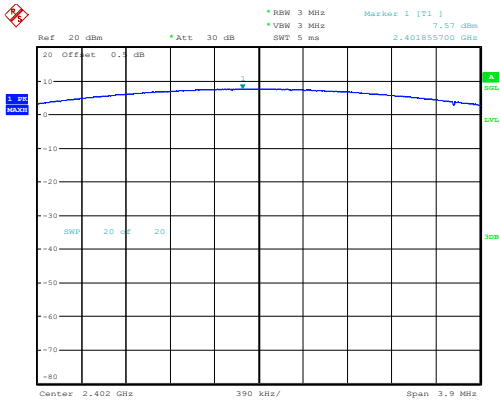
Mode	Value (dBm)	Limit (dBm)	Result
GFSK_Low	7.57	21.00	Pass
GFSK_Middle	7.56	21.00	Pass
GFSK_High	8.19	21.00	Pass

EDR

Mode	Value (dBm)	Limit (dBm)	Result
$\pi/4$ -DQPSK_Low	6.63	21.00	Pass
$\pi/4$ -DQPSK_Middle	6.70	21.00	Pass
$\pi/4$ -DQPSK_High	7.39	21.00	Pass
8DPSK_Low	6.57	21.00	Pass
8DPSK_Middle	6.62	21.00	Pass
8DPSK_High	7.32	21.00	Pass

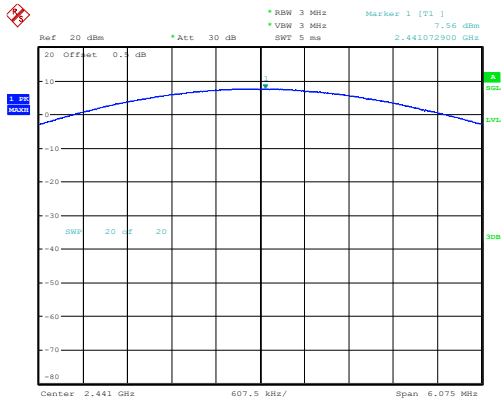
BDR

GFSK_Low 7.57dBm



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 22:59:23

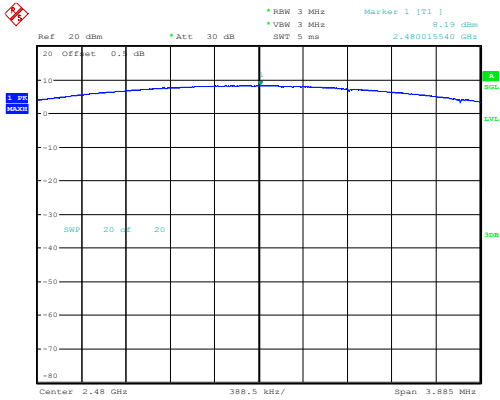
GFSK_Middle 7.56dBm



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:02:35

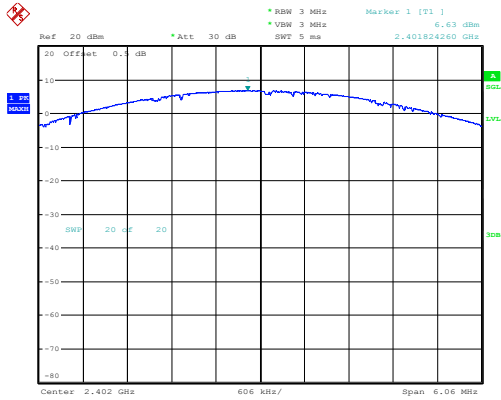
EDR

GFSK_High 8.19dBm



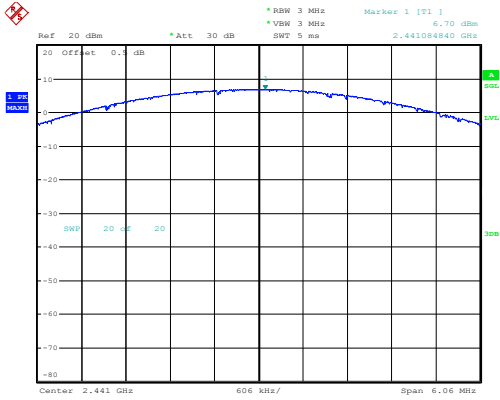
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:07:38

$\pi/4$ -DQPSK_Low 6.63dBm



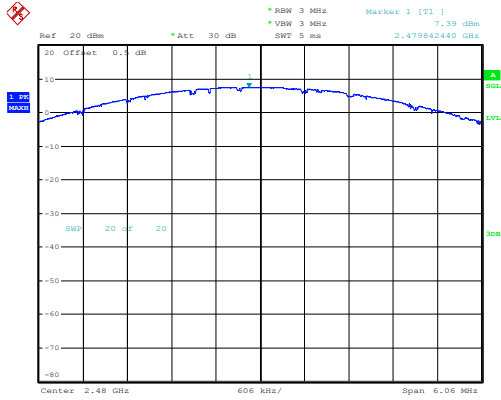
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:17:37

$\pi/4$ -DQPSK_Middle 6.70dBm



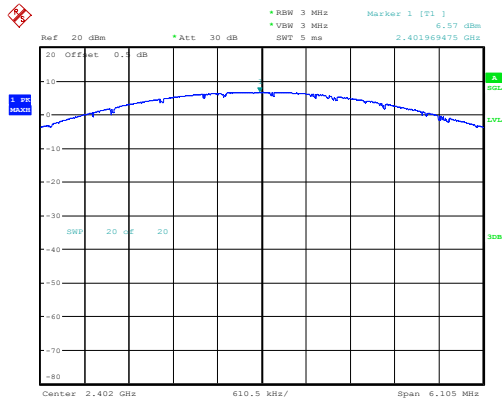
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:21:17

$\pi/4$ -DQPSK_High 7.39dBm



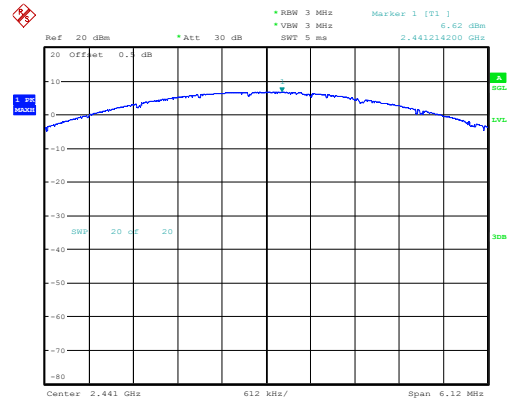
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:26:35

8DPSK_Low 6.57dBm



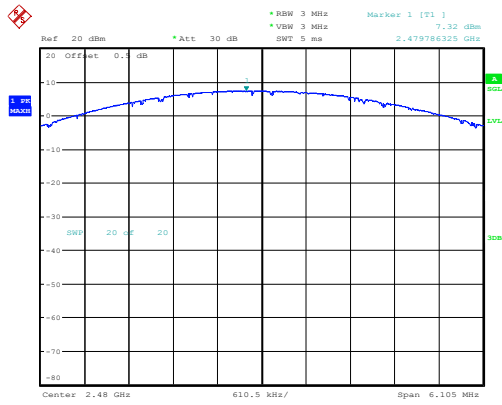
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:35:28

8DPSK_Middle 6.62dBm



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:38:13

8DPSK_High 7.32dBm



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:43:01

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

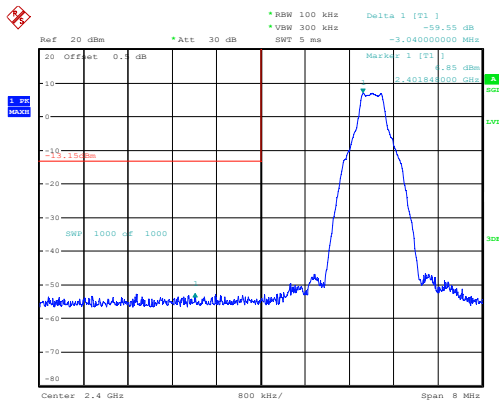
Mode	Value (dB)	Limit (dB)	Result
GFSK_Low	59.55	20.00	Pass
GFSK_High	60.51	20.00	Pass
GFSK_Hopping_Lower	59.24	20.00	Pass
GFSK_Hopping_Upper	60.19	20.00	Pass

EDR

Mode	Value (dB)	Limit (dB)	Result
$\pi/4$ -DQPSK_Low	57.94	20.00	Pass
$\pi/4$ -DQPSK_High	59.93	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Lower	58.28	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Upper	59.49	20.00	Pass
8DPSK_Low	58.78	20.00	Pass
8DPSK_High	59.87	20.00	Pass
8DPSK_Hopping_Lower	46.19	20.00	Pass
8DPSK_Hopping_Upper	59.80	20.00	Pass

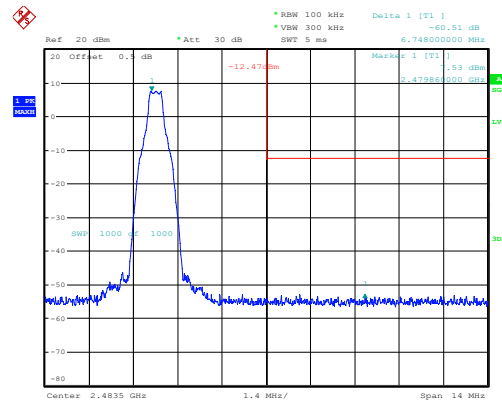
BDR

GFSK_Low 59.55dB



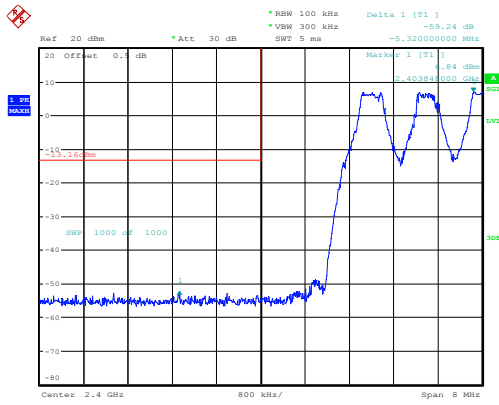
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 22:58:36

GFSK_High 60.51dB



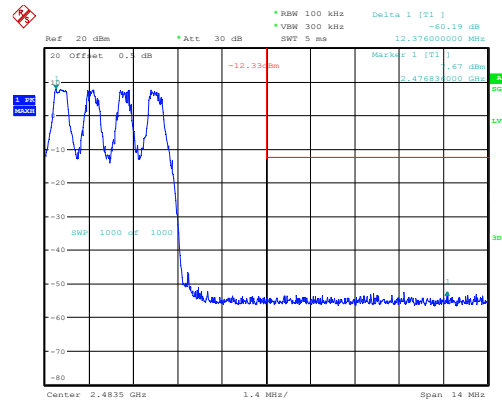
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:06:36

GFSK_Hopping_Lower 59.24dB



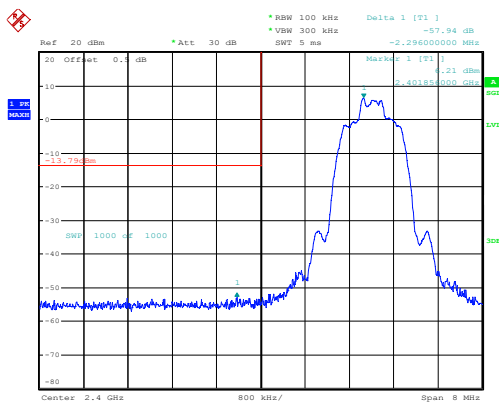
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:11:38

GFSK_Hopping_Upper 60.19dB

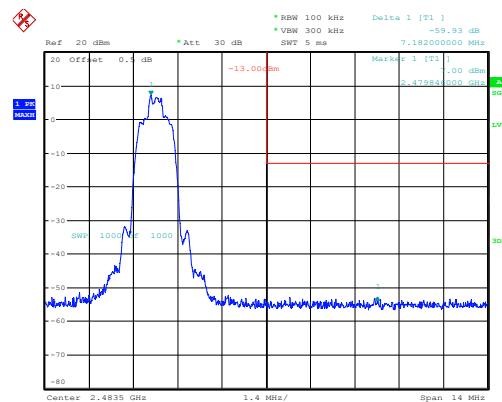


ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:14:02

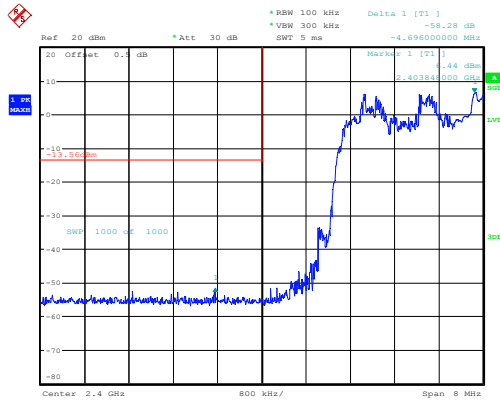
EDR

 $\pi/4$ -DQPSK_Low 57.94dB

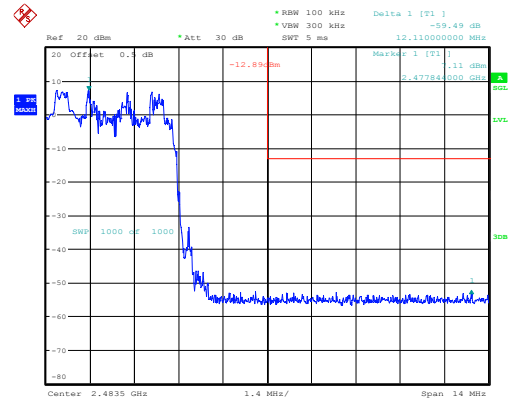
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:15:45

 $\pi/4$ -DQPSK_High 59.93dB

ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:25:32

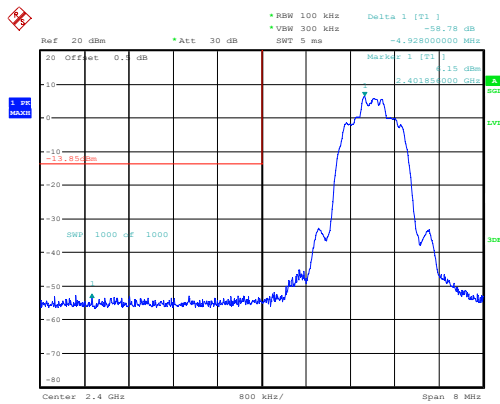
$\pi/4$ -DQPSK_Hopping_Lower 58.28dB

ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:30:47

 $\pi/4$ -DQPSK_Hopping_Upper 59.49dB

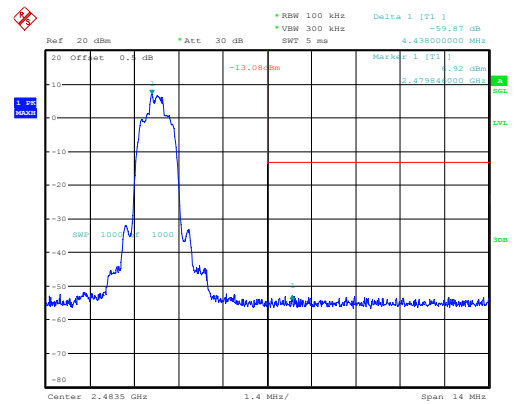
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:32:22

8DPSK_Low 58.78dB



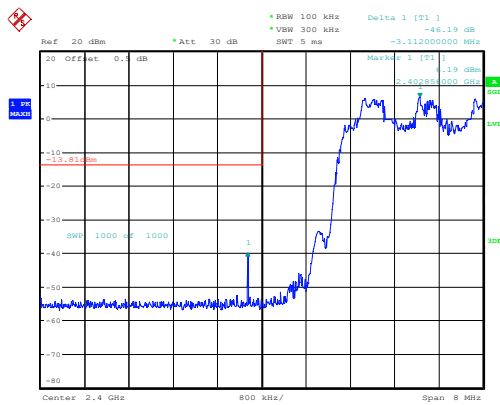
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:34:09

8DPSK_High 59.87dB



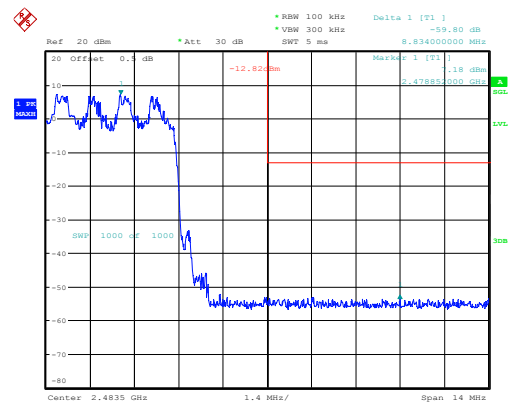
ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:41:15

8DPSK_Hopping_Lower 46.19dB



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:46:03

8DPSK_Hopping_Upper 59.80dB



ProjectNo.:2403U81808E-RF Tester:Chin Qin
Date: 11.JUL.2024 23:49:47