#### **Test Information:**

Serial No.:	2NI0-2	Test Date:	2024/07/01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

#### **Environmental Conditions:**

Temperature:	25	Relative Humidity:	60	ATM Pressure:	100
(°C):		(%)		(kPa)	

# **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

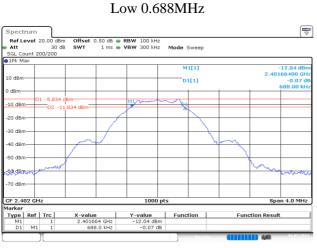
\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### 6dB Emission Bandwidth

#### BLE 1M

Mode	Value (MHz)	Limit (MHz)	Result
Low	0.688	0.5	Pass
Middle	0.684	0.5	Pass
High	0.720	0.5	Pass

Mode	Value (MHz)	Limit (MHz)	Result
Low	1.172	0.5	Pass
Middle	1.188	0.5	Pass
High	1.268	0.5	Pass



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:49:27

High 0.720MHz ₽ Ref Level 20. Att Offset SWT 50 dB - RBW 100 kHz 1 ms - VBW 300 kHz 30 dB Mode Sweep nt 200/200 1Pk M1[1] 13.40 d 2.47 in der D1[1] -0.15 -10 dBrr -20 dBm -30 dBr 40 dBn -50 dB -70 dBr CF 2.48 
 Marker

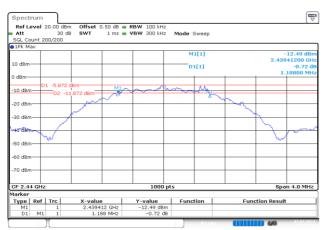
 Type
 Ref
 Trc

 M1
 1

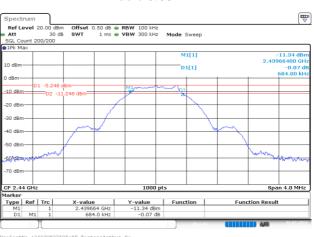
 D1
 M1
 1
 Y-value -13.40 dBm -0.15 dB Functio X-value 2.479644 720.0 kHz

ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:54:40

Middle 1.188MHz



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:57:39

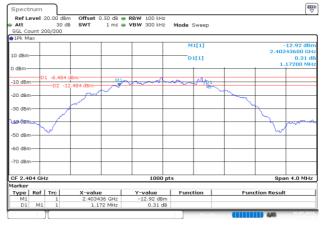


Middle 0.684MHz

ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:50:36

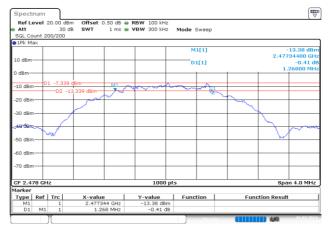
### **BLE 2M**

### Low 1.172MHz



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:56:37

### High 1.268MHz



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:58:10

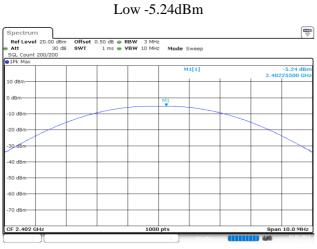
# Maximum Conducted Output Power

#### BLE 1M

Mode	Value	Limit	Result
Mode	(dBm)	(dBm)	Kesuit
Low	-5.24	30.00	Pass
Middle	-4.80	30.00	Pass
High	-6.09	30.00	Pass

Mode	Value	Limit	Result
	(dBm)	(dBm)	
Low	-5.09	30.00	Pass
Middle	-4.74	30.00	Pass
High	-5.57	30.00	Pass

#### BLE 1M



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:49:41

SGL 1Pk

10 dBn

dBr

-10 dB -20 dBm

-30 dBm

40 dBr -50 dBm

-60 dBm 70 dB

CF 2.48 (

Spectrur Ref Level 20.00 dBm Att 30 dB SGL Count 200/200

SGL Count

10 dBr ) dBm

10 dBm -20 dBr

-30 dBm

-40 dBn

-50 dB

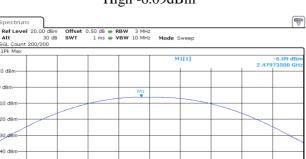
-60 dBr

-70 dBr CF 2.44 (

ProjectNo.:2403U82760E=RF Tester:Arthur Su

Offset SWT

Date: 1.JUL.2024 14:54:54



Middle -4.74dBm

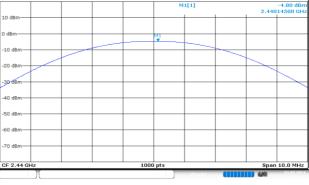
Mode Sweep

.50 dB 
RBW 3 MHz
1 ms 
VBW 10 MHz

MI

2.43

High -6.09dBm



Middle -4.80dBm

Mode Sweep

50 dB - RBW 3 MHz 1 ms - VBW 10 MHz

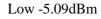
ProjectNo.:2403U82760E-RF Tester:Arthur Su Date: 1.JUL.2024 14:51:43

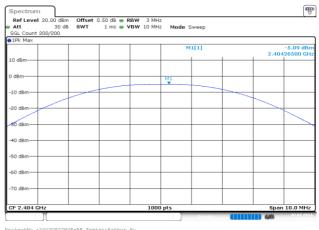
#### BLE 2M

Ref Level Att

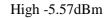
20.00 dBm 30 dB 200/200

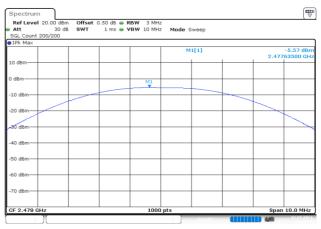
Offse SWT





ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:58:48





ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 15:00:38

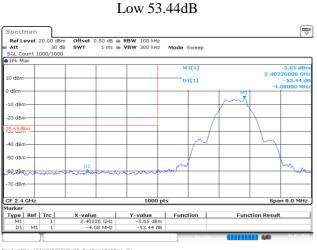
# ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:59:35

# 100 kHz Bandwidth of Frequency Band Edge

#### BLE 1M

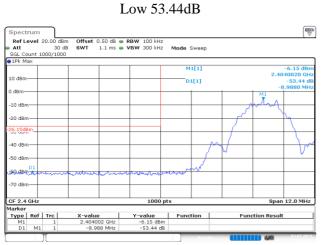
Mode	Value (dB)	Limit (dB)	Result
Low	53.44	20.00	Pass
High	52.31	20.00	Pass

Mode	Value (dB)		
Low	53.44	20.00	Pass
High	51.70	20.00	Pass



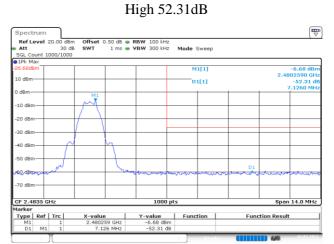
ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:49:14

#### **BLE 2M**

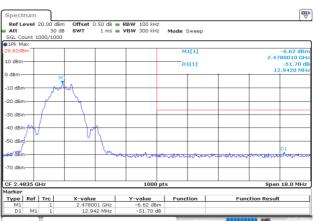


ProjectNo.:2403U82760E=RF Tester:Arthur Su

Date: 1.JUL.2024 15:01:32



ProjectNo.:2403U82760E-RF Tester:Arthur Su Date: 1.JUL.2024 14:52:42



# High 51.70dB

ProjectNo.:2403U82760E=RF Tester:Arthur Su

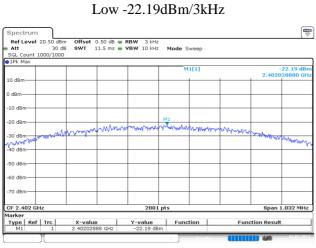
Date: 1.JUL.2024 15:02:12

# **Power Spectral Density**

#### BLE 1M

Mode	Value	Limit	Result
Mode	(dBm/3kHz)	(dBm/3kHz)	Kesuit
Low	-22.19	8.00	Pass
Middle	-21.73	8.00	Pass
High	-23.07	8.00	Pass

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-24.01	8.00	Pass
Middle	-23.62	8.00	Pass
High	-24.51	8.00	Pass

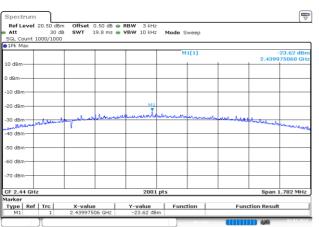


ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:50:08

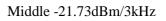
#### High -23.07dBm/3kHz Spectrur Ref Level 20. Att Offset SWT 0.50 dB RBW 3 kHz 12 ms VBW 10 kHz 30 dB Mode Sweep nt 1000/100 SGL 1Pk M1[1] -23.07 dE 2.479 10 dBr 10 dBm 20 dBm -MĪ -30 dBr 40 dBm--50 dBm 60 dBm 70 dBr CF 2.48 G .08 MHz Type Ref Trc M1 1 Y-value | Function | Function Result X-value 4.4

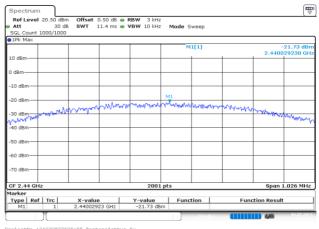
er:Arthur Su ProjectNo.:2403U8276 Date: 1.JUL.2024 14:55:22

#### Middle -23.62dBm/3kHz



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 15:04:03

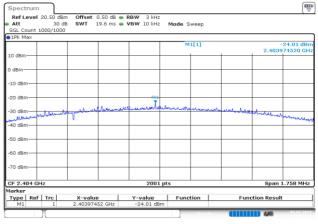




ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:52:10

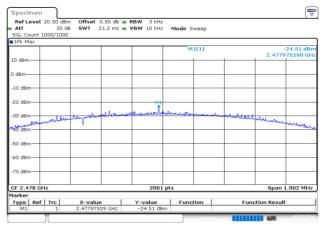
#### **BLE 2M**

#### Low -24.01dBm/3kHz



DE-RF Tester:Arthur Su ProjectNo.:2403U827 Date: 1.JUL.2024 15:03:15

#### High -24.51dBm/3kHz



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 15:05:18

# **Duty Cycle**

# BLE 1M

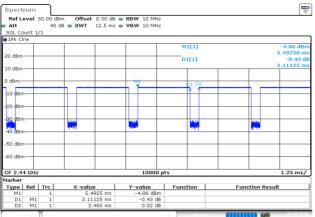
Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T (Hz)	VBW Setting (kHz)
Middle	2.111	2.485	84.95	0.71	474.0	0.500

# BLE 2M

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T (Hz)	VBW Setting (kHz)
Middle	1.063	1.864	57.03	2.44	941.0	1.000

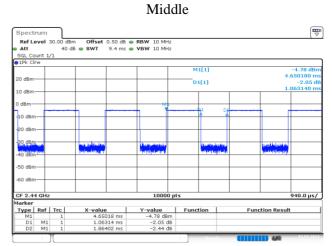
Duty Cycle = Ton/(Ton+Toff)\*100%

# Middle



ProjectNo.:2403U82760E=RF Tester:Arthur Su Date: 1.JUL.2024 14:51:30

# BLE 2M



ProjectNo.:2403U82760E-RF Tester:Arthur Su Date: 1.JUL.2024 15:06:33