



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

JAPAN MIC TEST REPORT

Applicant: Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.

Address: No. 8 Minying 1 Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China

Product Name: Wireless Transmitter

Model Number: RK HG101D

Type of Equipment: Certification Ordinance Article 2, Paragraph 1, Item 19

Test method(s): MIC Notice No.88 of 2004, Appendix No.43
(Version: MIC Notice No.409 of 2023)

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2603T21904E-RF-07

Date Of Issue: 2026/5/22

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Title: RF Test Supervisor

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Title: Manager

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, China.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603T21904E-RF-07	Original Report	2026/5/22

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Wireless Transmitter
Trade Name:	
EUT Model:	RK HG101D
Frequency Range:	2402-2480 MHz
Nominal RF Output Power (Conducted):	1.55mW
Number of TX Chain(s):	1
Number of RX Chain(s):	1
Antenna Gain[▲]:	3.5dBi
Modulation Type:	GFSK
Rated Input Voltage:	DC 5V From USB
Sample Number:	3LSS-1
EUT Received Date:	2026/5/11
EUT Received Status:	Good

1.2 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	...	...
...	...	...	...
...	...	...	...
...	...	38	2478
19	2440	39	2480

The test frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Low	2402
Middle	2440
High	2480

1.3 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
USB A to C Adapter	/	/	/

1.4 Objective

The objective of this current document is to demonstrate the EUT, as equipment type in Certification Ordinance Article 2-1-19 of Specific Radio Equipment Specified in Article 38-2-2 Paragraph 1 Item 1 of the Radio Law, compliant with Article 49-20 of Radio equipment regulations.

1.5 Test Methodology

All measurements contained in this report were conducted with technical regulations of MIC Notice No.88 of 2004, Appendix No.43 (Version: MIC Notice No.409 of 2023).

1.6 Description of Test Configuration

1.6.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:	No		
EUT Exercise Software:	FCC assistant.exe		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:			
Test Modes	Power Level Setting		
	Lowest	Middle	Highest
GFSK	Default	Default	Default

1.6.2 EUT Extremity Condition

Environment Element	Range	Declared Voltage Value (Vdc)
Voltage Fluctuation:	NV	5
	LV	4.75
	HV	5.25

Note: The EUT be operated at 4.75~5.25Vdc which was provided by manufacturer. However, as it is not equipped with a matching voltage regulation circuit, tests were conducted under three conditions: low voltage (LV), nominal voltage (NV), and high voltage (HV).

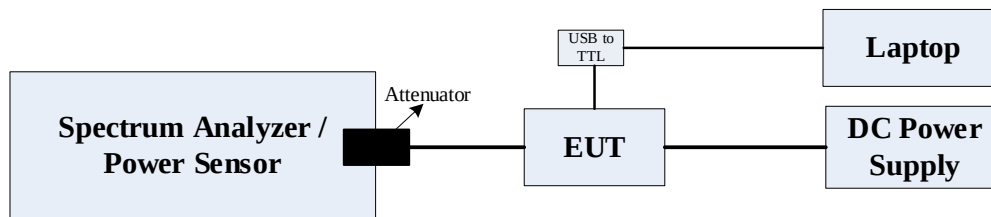
1.6.3 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T460S	60PDTEK7
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386
N/A	USB to TTL	N/A	N/A

1.6.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Detachable Power Cable	No	No	1	DC Power Supply	EUT
Serial Cable	No	No	0.15	EUT	USB to TTL
USB Cable	No	No	0.1	Laptop	USB to TTL

1.6.5 Block Diagram of Test Setup



1.7 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Frequency Error	$\pm 0,5$ ppm
Occupied Bandwidth	± 5 %
RF Output Power, Conducted	± 0.61 dB
Unwanted Emissions (TX&RX), Conducted	± 2.47 dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC And Low Frequency Voltages	$\pm 0.4\%$
Duty Cycle	1%

2. SUMMARY OF TEST RESULTS

Certification Ordinance Article 2-1-19 Conducted with: MIC Notice No.88 Appendix No.43	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth	Compliant
3	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliant
4	Antenna Output Power and Output Power Tolerance	Compliant
5	Receiver Spurious Emission and Unwanted Emission Intensity	Compliant
6	Carrier sense capability	Not Applicable*
7	Transmission Frequency Switching Function	Not Applicable**
8	Transmission Antenna Gain	Not Applicable***
9	Transmission Radiation Angle Width	Not Applicable***
10	Interference Prevention Function	Compliant
11	Frequency Hopping Dwell Time	Not Applicable****
12	Construction Protection Confirmation	Compliant

Note:

Not Applicable*: Only required for OBW between 26MHz and 40MHz with OFDM modulation type.

Not Applicable**: Only required for device with "the EIRP shortage is compensated by Antenna output power" function.

Not Applicable***: This item not applicable when the EIRP less than the limit.

Not Applicable****: Testing is only required for FHSS system devices.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 Frequency Error

3.1.1 Limit

Within ± 50 ppm.

3.1.2 Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as: Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode:

Positive peak / Trace mode: Max hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.

3.2 Occupied Bandwidth

3.2.1 Limit

- Occupied bandwidth: ≤ 26 MHz

3.2.2 Test Procedure

1. Setting of SA is following as: RB: 30 kHz/VB: 30 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

3.3 Transmitter Spurious Emission Strength and Unwanted Emission Intensity

3.3.1 Limit

- $30\text{MHz} \leq f < 2387\text{ MHz}: \leq 2.5\mu\text{W/ MHz}$
- $2387\text{ MHz} \leq f \leq 2400\text{ MHz}: \leq 25\mu\text{W/ MHz};$
- $2483.5\text{ MHz} < f \leq 2496.5\text{ MHz}: \leq 25\mu\text{W/ MHz}$
- $2496.5\text{ MHz} < f \leq 12500\text{MHz}: \leq 2.5\mu\text{W/ MHz}$

3.3.2 Test Procedure

❖ Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

❖ Spectrum Analyzer Conditions

- Setting of SA start 30MHz and stop frequency 1000MHz, RB:100kHz/VB:100kHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $0.25\mu\text{W}/100\text{kHz}$.
- Setting of SA start 1000MHz and stop frequency 2387MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $2.5\mu\text{W}/\text{MHz}$.
- Setting of SA start 2387MHz and stop frequency 2400MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $25\mu\text{W}/\text{MHz}$.
- Setting of SA start 2483.5MHz and stop frequency 2496.5MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $25\mu\text{W}/\text{MHz}$.
- Setting of SA start 2496.5MHz and stop frequency 12500MHz, RBW: 1MHz/VBW: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value + cable loss shall be less than $2.5\mu\text{W}/\text{MHz}$.

If above test over the limit, the below test procedure should be used:

Step 1:

Center the frequency which was want to investigate, search the peak frequency.

Step 2:

Center frequency: Searched Frequency

Span: 0Hz

RBW: 1MHz(Above 1GHz), VBW: Same as RBW.

Sweep time: Auto(Minimum time to ensure measurement accuracy. *In case of burst wave, one burst shall be included per data point) Data points: 400 points or more. Sweep mode: Single Sweep.

Detection Mode: Sample

3.4 Antenna Output Power and Antenna Power Tolerance

3.4.1 Limit

Antenna output power:

- $\leq 10 \text{ mW}$
- The Output Power Tolerance must be not greater than +20%.
- $\text{EIRP} \leq 12.14\text{dBm}$ (other from 2400-2483.5 MHz)

3.4.2 Test Procedure

- a) Set the EUT in continuous maximum power transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to power meter.
- c) Add a correction factor to the display.
- d) Set the power meter detector to average detector, to test average output power, record the result.
- e) Antenna Power Error is definition that actual measure antenna power tolerance not greater than +20% that base on manufacturer declare the power density.

3.5 Receiver Spurious Emission and Unwanted Emission Intensity

3.5.1 Limit

- $\leq 4 \text{ nW}$ ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)
- $\leq 20 \text{ nW}$ ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

3.5.2 Test Procedure

❖ Conditions of Application Equipment (EUT)

- The modulation state shall be “continuous receiving mode”.

❖ Spectrum Analyzer Conditions

- Start Frequency: Start Frequency of frequency range to measure (30MHz or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 12.5GHz)
- Span: AUTO (Measurement Range)
- RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
- RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
- Sweep time: AUTO or more
- Sweep mode: Auto Sweep
- Detection: Positive Peak
- Reference Level: Enough level for maximum dynamic range

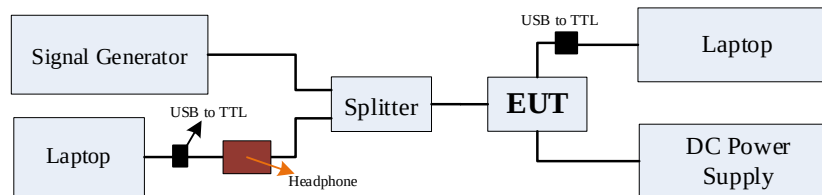
3.6 Interference Prevention Function

3.6.1 Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

3.6.2 Test Procedure

Measurement System Diagram:



Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Jingheng	Headphone	RK HG101	/
Lenovo	Laptop	T460S	60PDTEK7
N/A	USB to TTL	N/A	N/A

In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.7 Construction Protection Confirmation

3.7.1 Requirements

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

4. TEST DATA AND RESULTS

4.1 Test Environmental Conditions & Test Equipment List and Details

Test Date:		2026/5/19			
Tester:		Kenny Qiu			
Environmental Conditions:					
Temperature: (°C)	23.4	Relative Humidity: (%)	50	ATM Pressure: (kPa)	100.3

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Agency	Calibration Method ^{Note}
UNI-T	Multimeter	UT39A+	C210582554	2025/11/11	2026/11/10	BACL Cal	C
R&S	Spectrum Analyzer	FSV40-N	101050	2025/11/13	2026/11/12	BACL Cal	C
Agilent	USB Average Power Sensor	U2001H	MY50000380	2026/02/27	2027/02/26	BACL Cal	C
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A	CCICT	D
GWINSTEK	DC Power Supply	SPS3610	D33251	N/A	N/A	N/A	N/A
Minl-Circuits	Power Splitter	ZFRSC-183-S+	S F448201619	Each time	N/A	CCICT	D
Agilent	MXG Vector Signal Generator	N5182B	MY51350142	2025/11/14	2026/11/13	BACL Cal	C

*** 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).

Note:

A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).

B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).

C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c)

4.2 Frequency Error

Test Result: Compliant. Please refers to following table and plots.

Test Mode: Carrier transmitting mode

Test Condition: LV

Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)	Verdict
Single Carrier	2402	2402.01035	4.31	± 50	Pass
	2440	2440.01065	4.36		Pass
	2480	2480.01065	4.29		Pass

Test Condition: NV

Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)	Verdict
Single Carrier	2402	2402.01125	4.68	± 50	Pass
	2440	2440.01065	4.36		Pass
	2480	2480.01065	4.29		Pass

Test Condition: HV

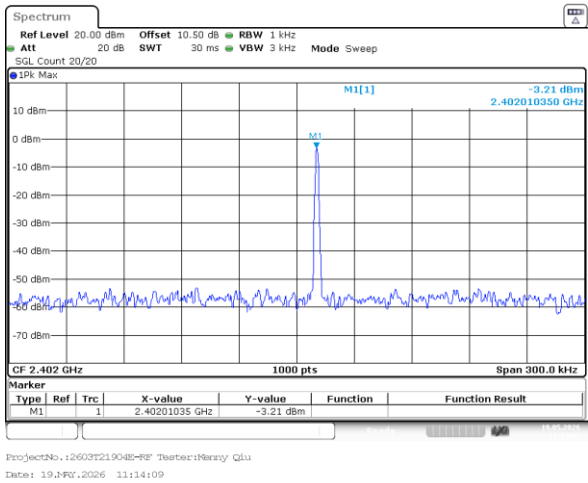
Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)	Verdict
Single Carrier	2402	2402.01065	4.43	± 50	Pass
	2440	2440.01065	4.36		Pass
	2480	2480.01065	4.29		Pass

Frequency Tolerance = (Measure Frequency - Frequency)/Frequency*10⁶

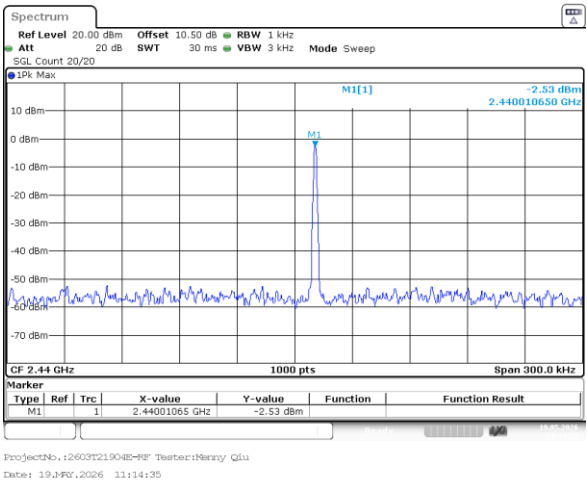
The test plots as following:

Test Condition: LV

2402MHz

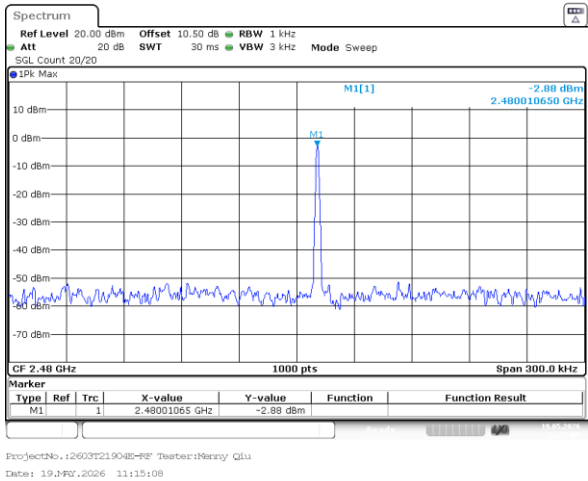


2440MHz

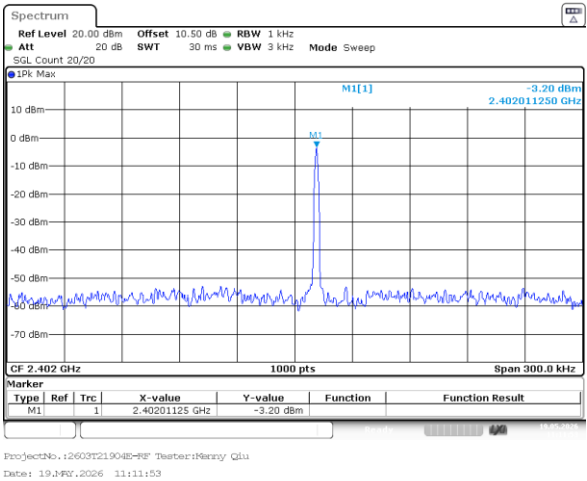


Test Condition: NV

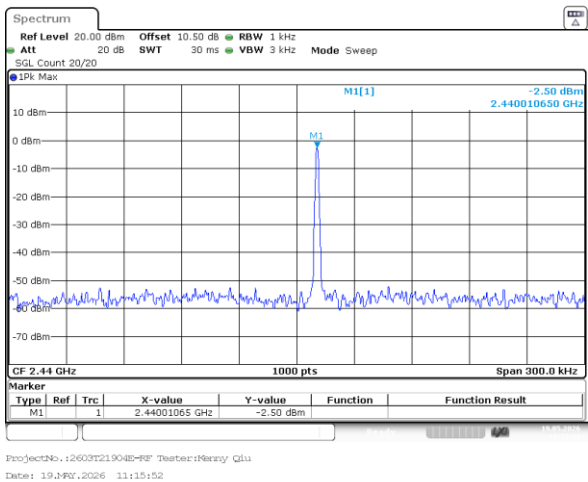
2480MHz



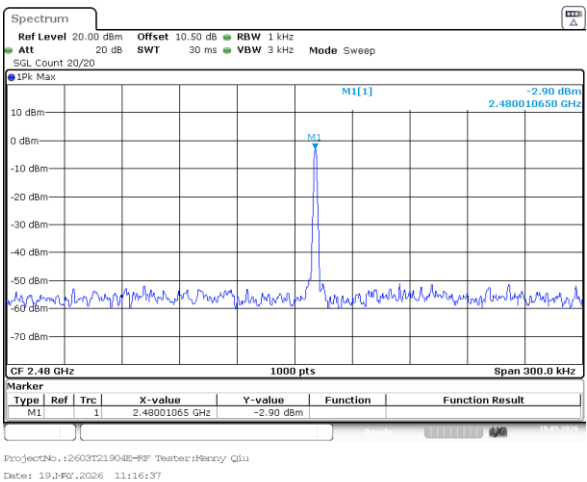
2402MHz



2440MHz

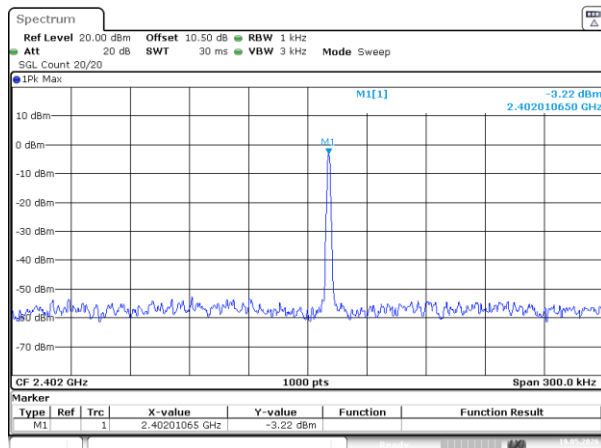


2480MHz



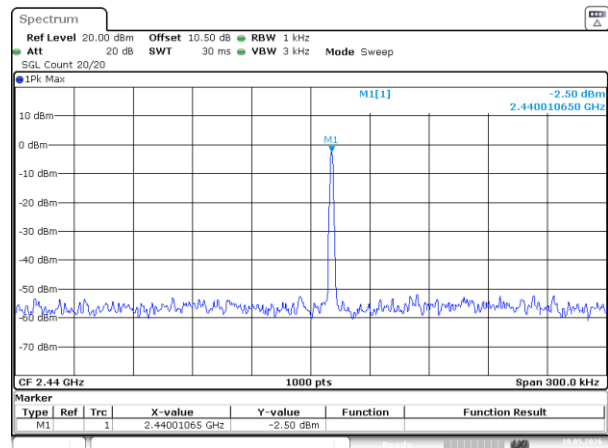
Test Condition: HV

2402MHz



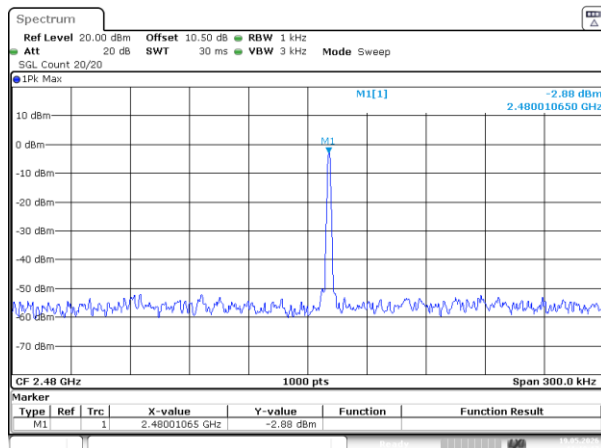
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:13:13

2440MHz



ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:17:25

2480MHz



ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:18:18

4.3 Occupied Bandwidth

Test Result: Compliant. Please refers to following table and plots.

Test Mode: Transmitting

Test Condition: LV

Mode	Occupied bandwidth (MHz)			Limit (MHz)	Verdict
	Low Channel	Middle Channel	High Channel		
GFSK	1.013	1.015	1.015	≤ 26	Pass

Test Condition: NV

Mode	Occupied bandwidth (MHz)			Limit (MHz)	Verdict
	Low Channel	Middle Channel	High Channel		
GFSK	1.013	1.013	1.015	≤ 26	Pass

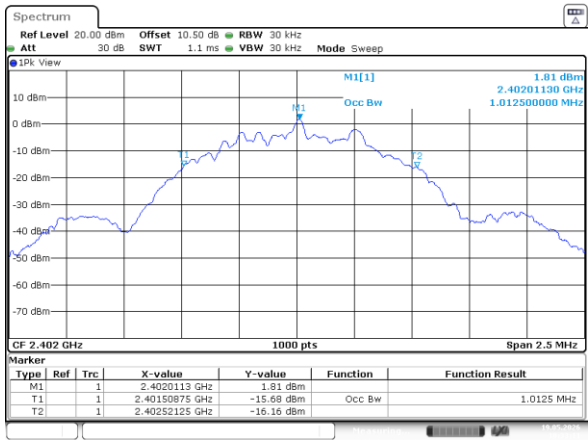
Test Condition: HV

Mode	Occupied bandwidth (MHz)			Limit (MHz)	Verdict
	Low Channel	Middle Channel	High Channel		
GFSK	1.015	1.013	1.015	≤ 26	Pass

The test plots as following:

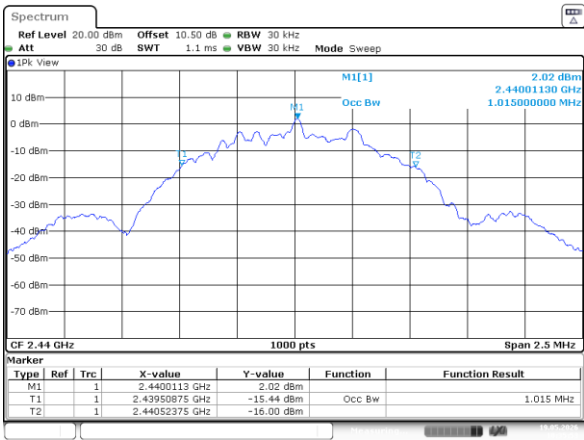
Test Condition: LV

GFSK_Low Channel



ProjectNo.:2603T21904E-RF Tester:Henny Qiu
Date: 19-JAN, 2026 10:33:11

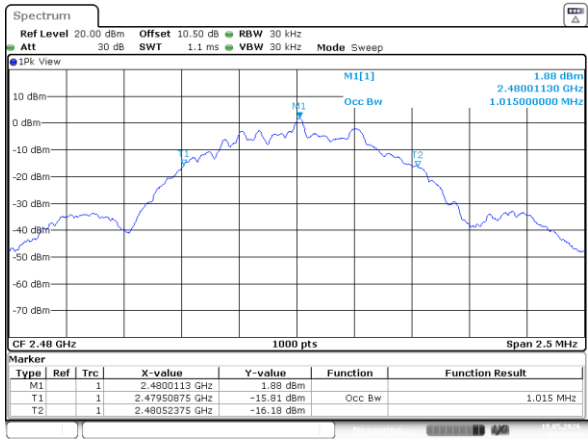
GFSK_Middle Channel



ProjectNo.:2603T21904E-RF Tester:Henny Qiu
Date: 19-JAN, 2026 10:35:53

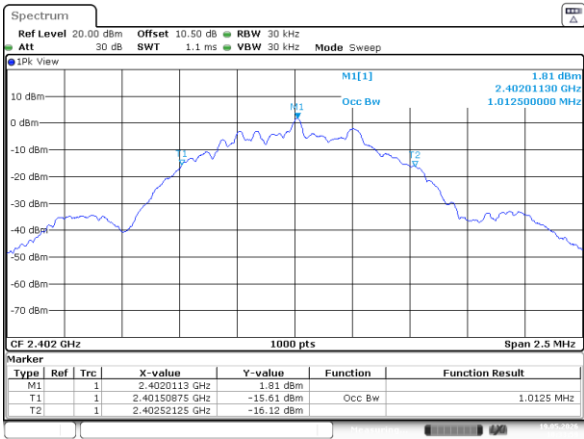
Test Condition: NV

GFSK_High Channel



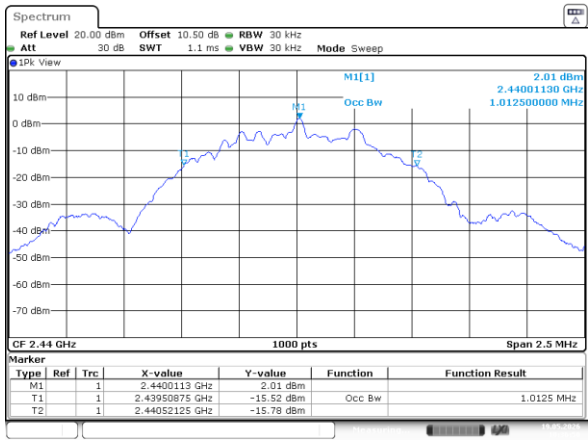
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GFSK_Low Channel



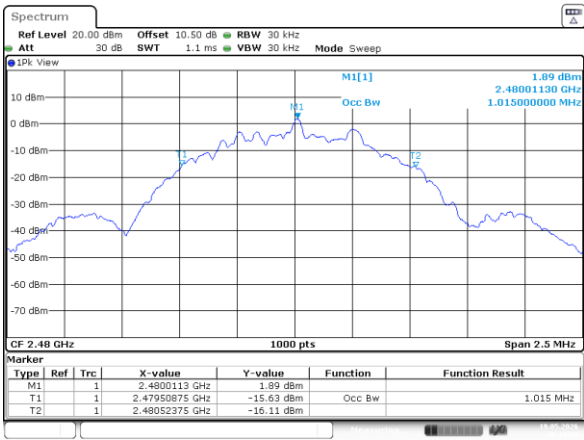
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GFSK_Middle Channel



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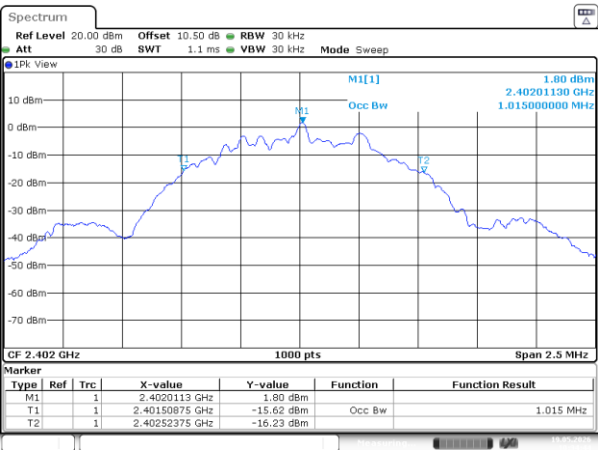
GFSK_High Channel



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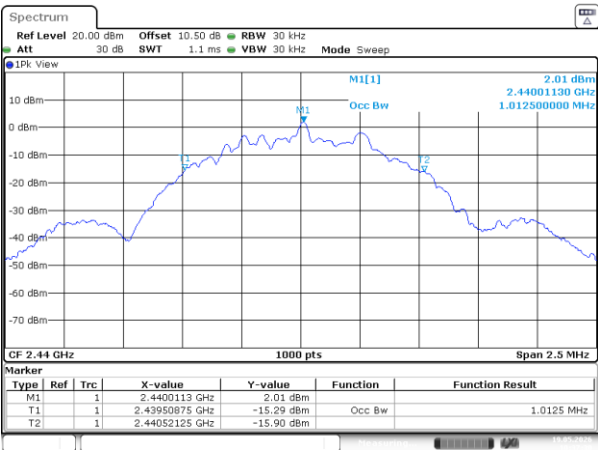
Test Condition: HV

GFSK_Low Channel



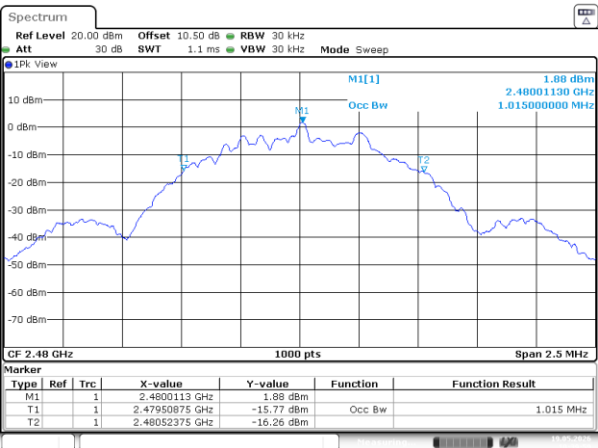
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Date: 19-JUN-2026 10:34:44

GFSK_Middle Channel



ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:37:30

GFSK_High Channel



ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:39:59

4.4 Transmitter Spurious Emission Strength and Unwanted Emission Intensity

Test Result: Compliant. Please refers to following tables and plots.

Test Mode: Transmitting

Test Condition: LV, GFSK

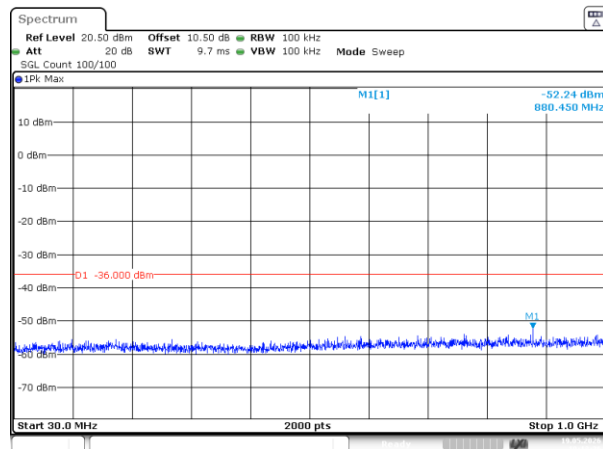
Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	880.45	-52.24	0.006	0.25	Pass
	Band II (1MHz)	1000	2387	2210.5	-42.91	0.051	2.50	Pass
	Band III (1MHz)	2387	2400	2399.828	-25.11	3.083	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2495.275	-43.74	0.042	25	Pass
	Band V (1MHz)	2496.5	12500	6190.3	-38.62	0.137	2.50	Pass
Middle	Band I (100kHz)	30	1000	880.45	-52.76	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2248.65	-42.93	0.051	2.50	Pass
	Band III (1MHz)	2387	2400	2391.501	-42.94	0.051	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.510	-43.54	0.044	25	Pass
	Band V (1MHz)	2496.5	12500	6950.6	-38.11	0.155	2.50	Pass
High	Band I (100kHz)	30	1000	664.14	-53.44	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2288.18	-43.26	0.047	2.50	Pass
	Band III (1MHz)	2387	2400	2397.494	-43.16	0.048	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2484.777	-34.99	0.317	25	Pass
	Band V (1MHz)	2496.5	12500	6910.5	-38.25	0.150	2.50	Pass

Test Condition: NV, GFSK

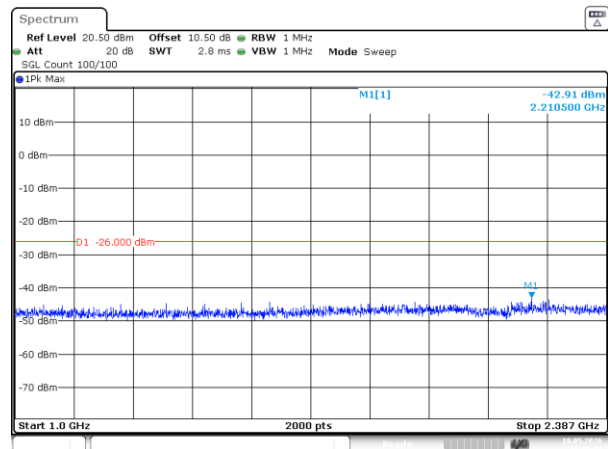
Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	780.05	-53.54	0.004	0.25	Pass
	Band II (1MHz)	1000	2387	1753.49	-42.83	0.052	2.50	Pass
	Band III (1MHz)	2387	2400	2399.711	-25.34	2.924	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.776	-43.69	0.043	25	Pass
	Band V (1MHz)	2496.5	12500	5940.2	-38.39	0.145	2.50	Pass
Middle	Band I (100kHz)	30	1000	880.45	-53.15	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2248.65	-43.03	0.050	2.50	Pass
	Band III (1MHz)	2387	2400	2397.273	-43.65	0.043	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2487.832	-42.92	0.051	25	Pass
	Band V (1MHz)	2496.5	12500	6085.3	-38.20	0.151	2.50	Pass
High	Band I (100kHz)	30	1000	914.4	-53.55	0.004	0.25	Pass
	Band II (1MHz)	1000	2387	2288.18	-42.42	0.057	2.50	Pass
High	Band III (1MHz)	2387	2400	2396.968	-43.11	0.049	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2484.647	-35.30	0.295	25	Pass
	Band V (1MHz)	2496.5	12500	3409.3	-36.29	0.235	2.50	Pass

Test Condition: HV, GFSK

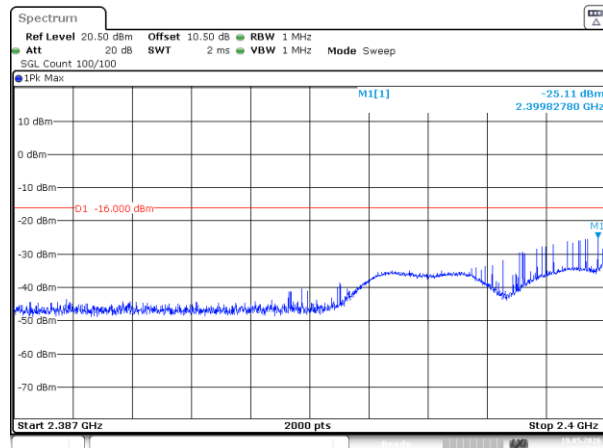
Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	839.71	-54.27	0.004	0.25	Pass
	Band II (1MHz)	1000	2387	1921.31	-42.28	0.059	2.50	Pass
	Band III (1MHz)	2387	2400	2399.932	-24.89	3.243	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2495.808	-43.01	0.050	25	Pass
	Band V (1MHz)	2496.5	12500	3424.3	-30.82	0.828	2.50	Pass
Middle	Band I (100kHz)	30	1000	943.5	-52.90	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2248.65	-41.44	0.072	2.50	Pass
	Band III (1MHz)	2387	2400	2395.466	-43.64	0.043	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2495.067	-43.29	0.047	25	Pass
	Band V (1MHz)	2496.5	12500	6955.6	-38.39	0.145	2.50	Pass
High	Band I (100kHz)	30	1000	872.2	-53.83	0.004	0.25	Pass
	Band II (1MHz)	1000	2387	2288.18	-42.26	0.059	2.50	Pass
	Band III (1MHz)	2387	2400	2396.565	-44.23	0.038	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2484.667	-34.79	0.332	25	Pass
	Band V (1MHz)	2496.5	12500	6945.6	-38.14	0.153	2.50	Pass

The test plots as following:**Test Condition: LV****GFSK_Low Channel(30MHz~1GHz)**

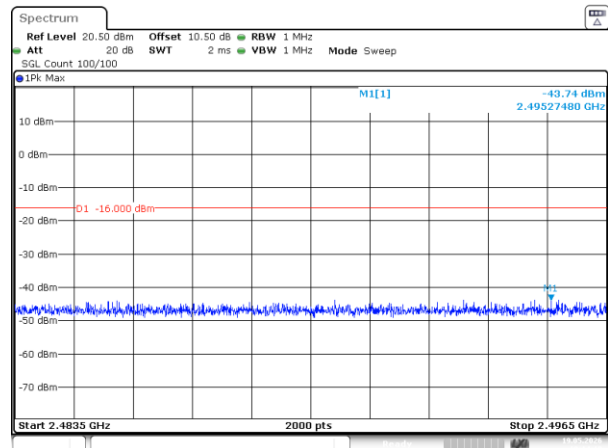
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:13:37

GFSK_Low Channel(1GHz~2.387GHz)

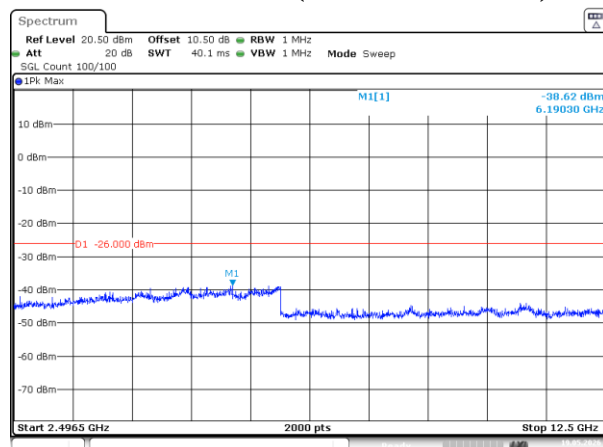
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:13:52

GFSK_Low Channel(2.387GHz~2.4GHz)

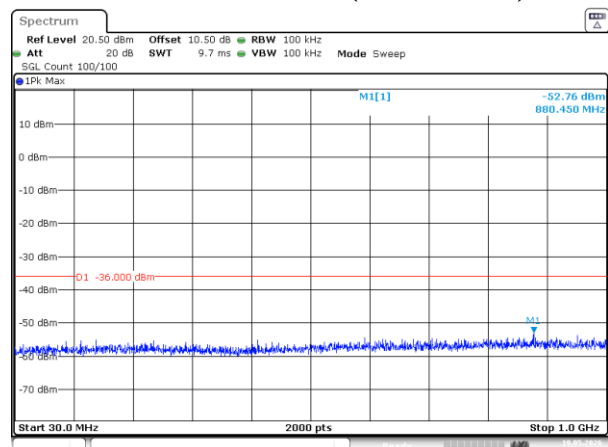
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:14:05

GFSK_Low Channel(2.4835GHz~2.4965GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:14:18

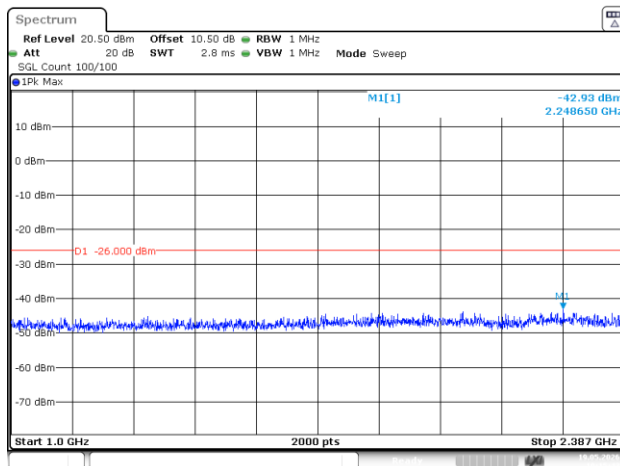
GFSK_Low Channel(2.4965GHz~12.5GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:14:49

GFSK_Middle Channel(30MHz~1GHz)

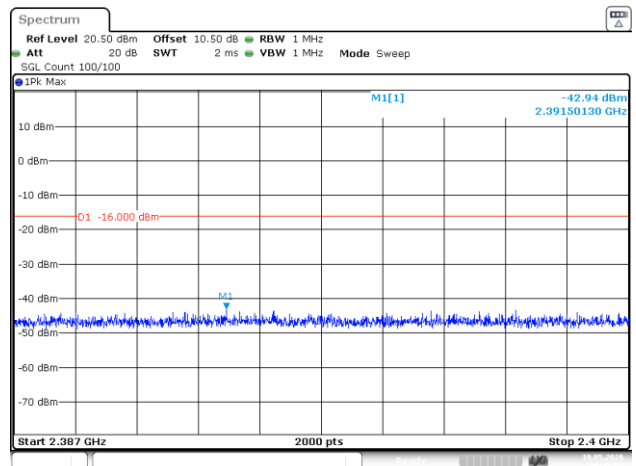
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:15:28

GFSK_Middle Channel(1GHz~2.387GHz)



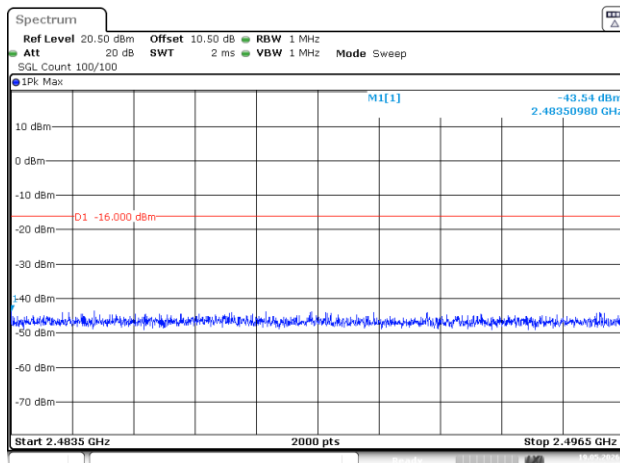
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:15:43

GFSK_Middle Channel(2.387GHz~2.4GHz)



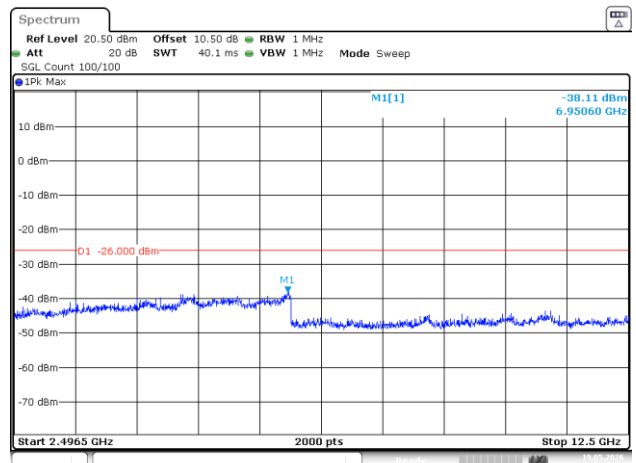
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:15:56

GFSK_Middle Channel(2.4835GHz~2.4965GHz)



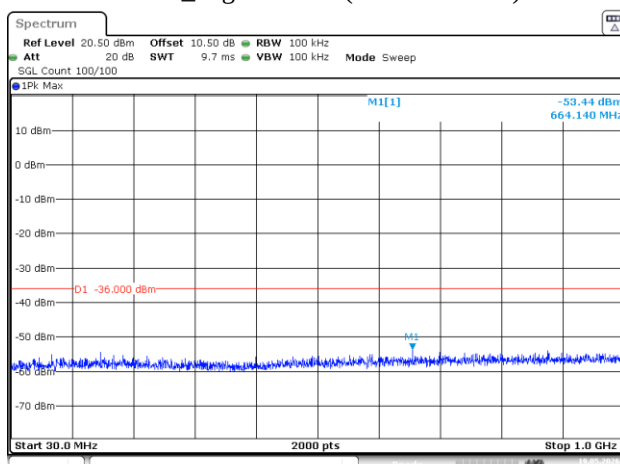
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:16:15

GFSK_Middle Channel(2.4965GHz~12.5GHz)



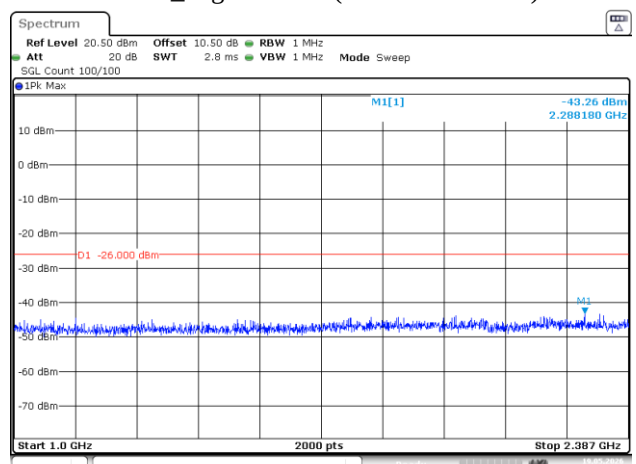
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:16:46

GFSK_High Channel(30MHz~1GHz)



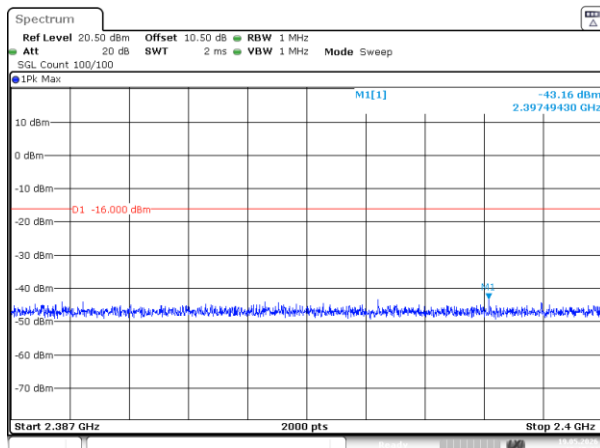
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:17:16

GFSK_High Channel(1GHz~2.387GHz)



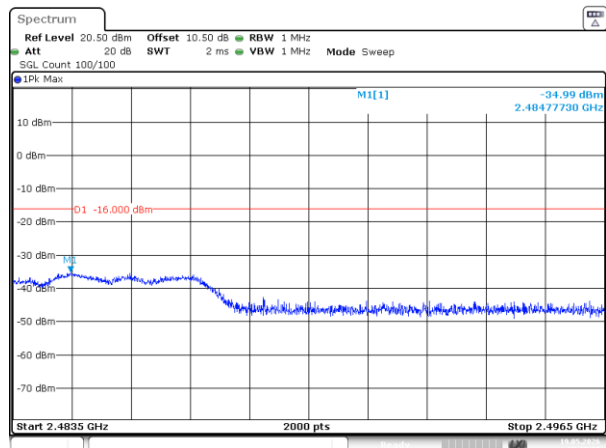
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:17:31

GFSK_High Channel(2.387GHz~2.4GHz)



ProjectNo.:2603T21904E-RF Tester:Henry Qiu
Date: 19-JUN-2026 10:17:44

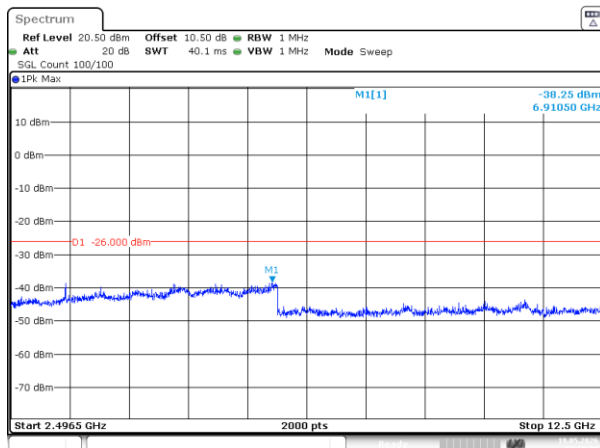
GFSK_High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2603T21904E-RF Tester:Henry Qiu
Date: 19-JUN-2026 10:17:57

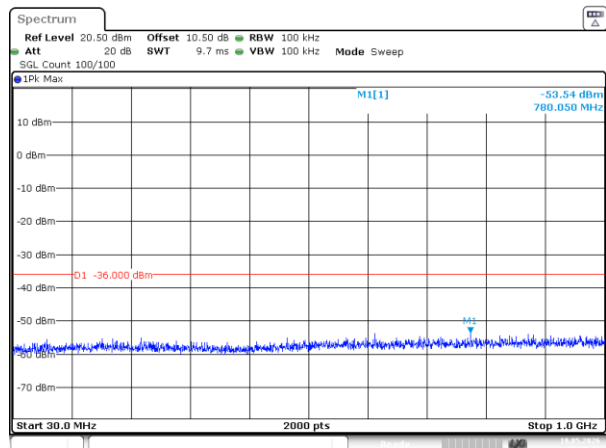
Test Condition: NV

GFSK_High Channel(2.4965GHz~12.5GHz)



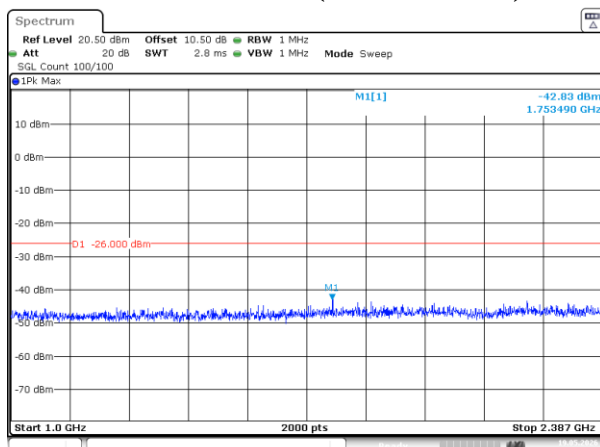
ProjectNo.:2603T21904E-RF Tester:Henry Qiu
Date: 19-JUN-2026 10:18:28

GFSK_Low Channel(30MHz~1GHz)



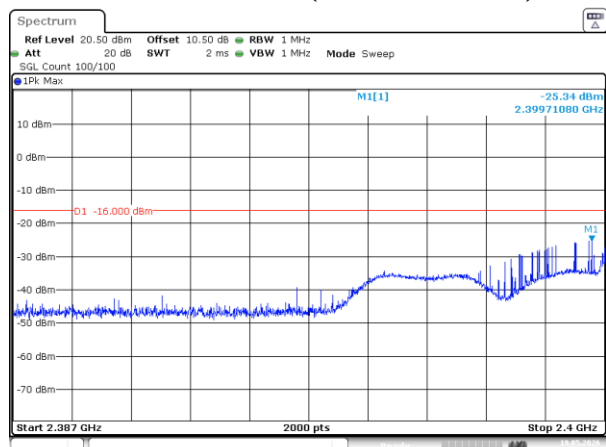
ProjectNo.:2603T21904E-RF Tester:Henry Qiu
Date: 19-JUN-2026 10:19:12

GFSK_Low Channel(1GHz~2.387GHz)



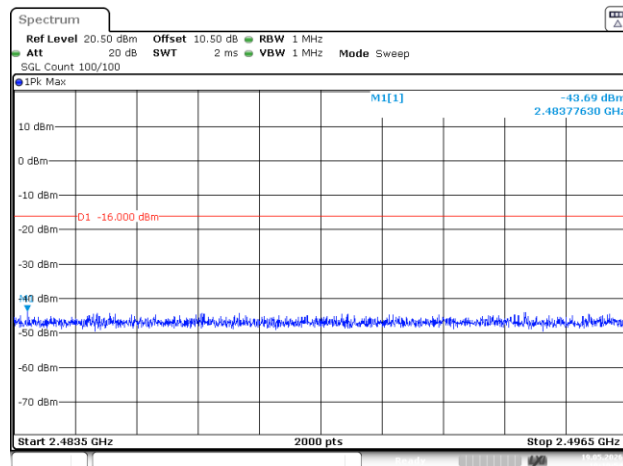
ProjectNo.:2603T21904E-RF Tester:Henry Qiu
Date: 19-JUN-2026 10:19:28

GFSK_Low Channel(2.387GHz~2.4GHz)



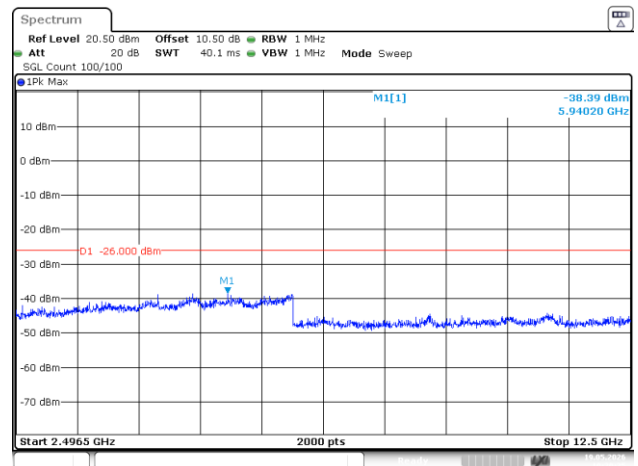
ProjectNo.:2603T21904E-RF Tester:Henry Qiu
Date: 19-JUN-2026 10:19:41

GFSK_Low Channel(2.4835GHz~2.4965GHz)



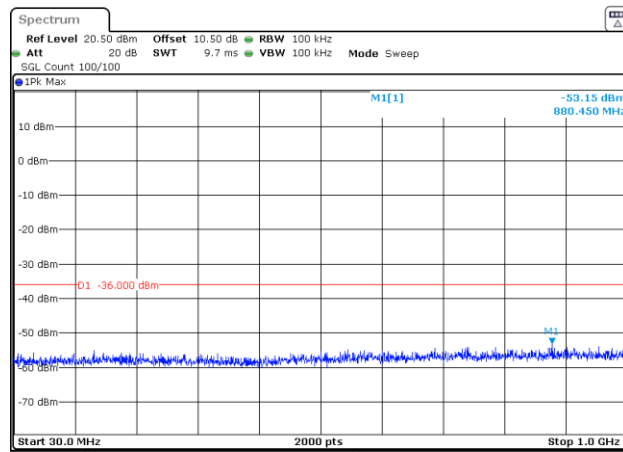
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:19:54

GFSK_Low Channel(2.4965GHz~12.5GHz)



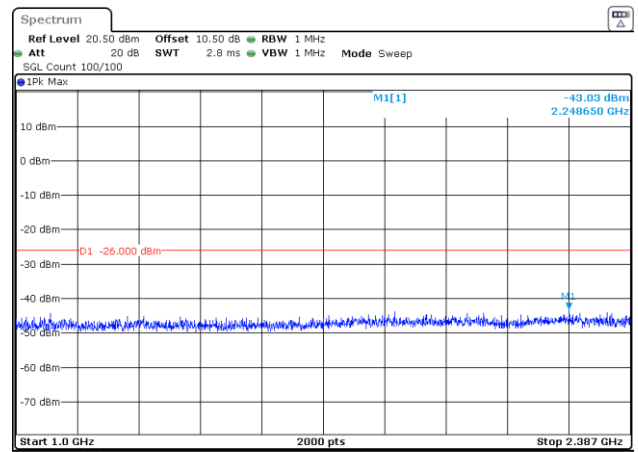
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:20:26

GFSK_Middle Channel(30MHz~1GHz)



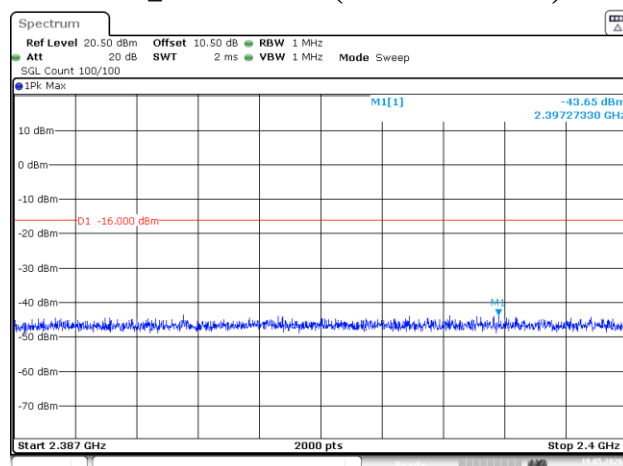
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:21:16

GFSK_Middle Channel(1GHz~2.387GHz)



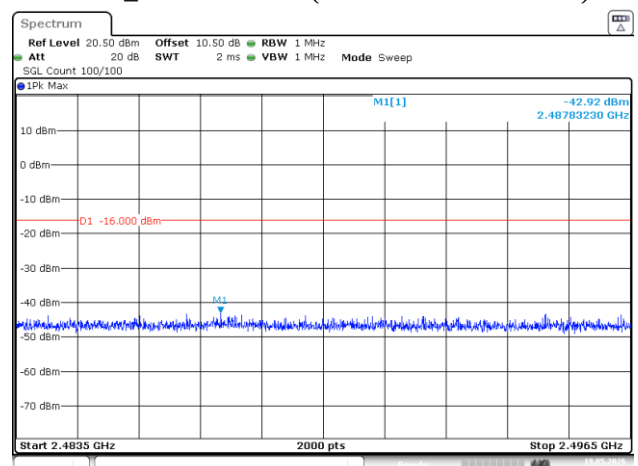
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:21:30

GFSK_Middle Channel(2.387GHz~2.4GHz)



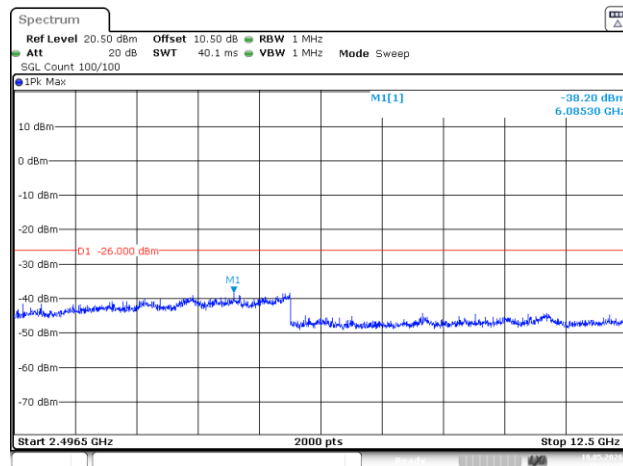
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:21:44

GFSK_Middle Channel(2.4835GHz~2.4965GHz)



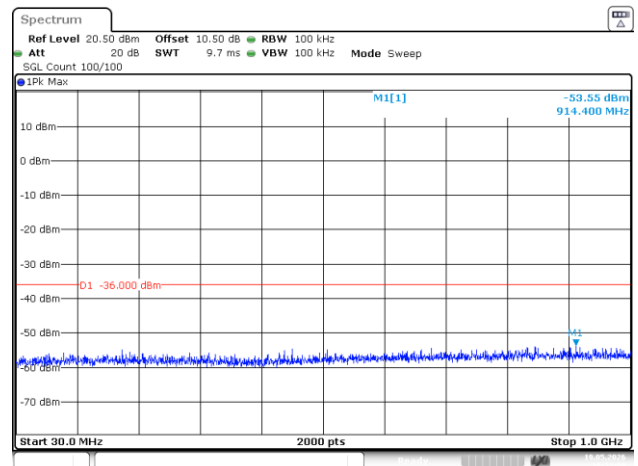
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.JAN.2026 10:21:57

GFSK_Middle Channel(2.4965GHz~12.5GHz)



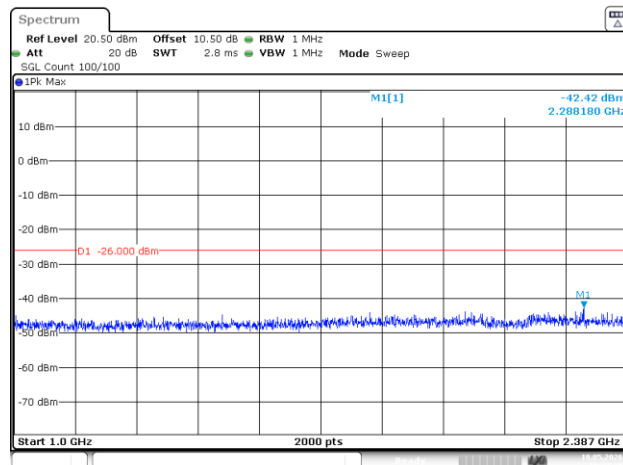
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.Jan.2026 10:22:27

GFSK_High Channel(30MHz~1GHz)



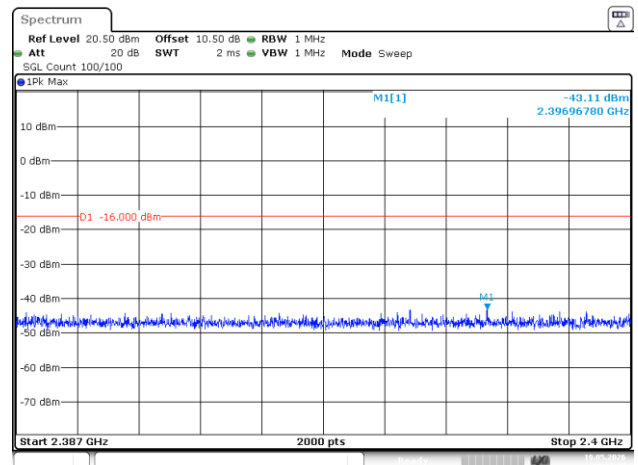
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.Jan.2026 10:22:59

GFSK_High Channel(1GHz~2.387GHz)



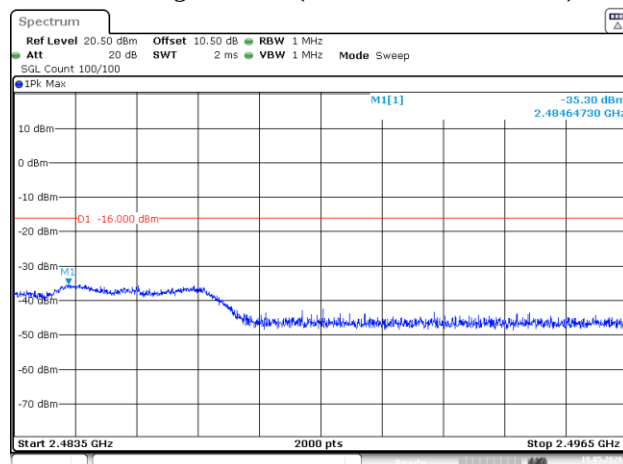
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.Jan.2026 10:23:15

GFSK_High Channel(2.387GHz~2.4GHz)



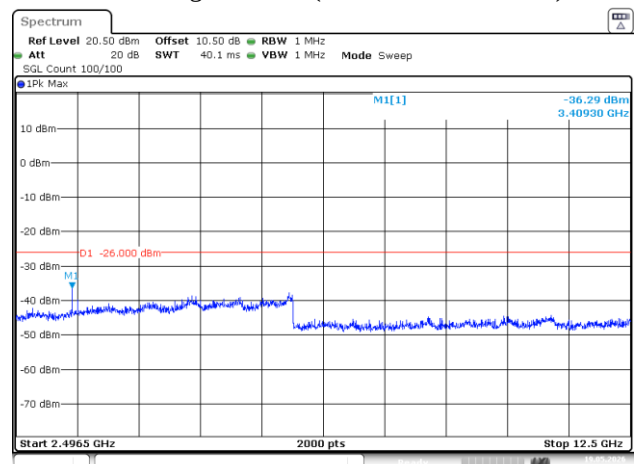
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.Jan.2026 10:23:29

GFSK_High Channel(2.4835GHz~2.4965GHz)

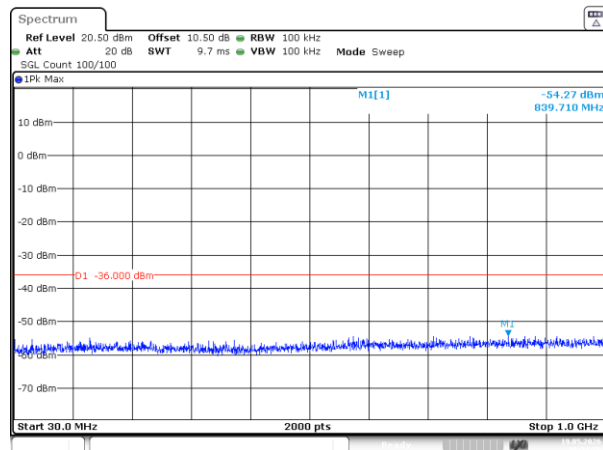


ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.Jan.2026 10:23:42

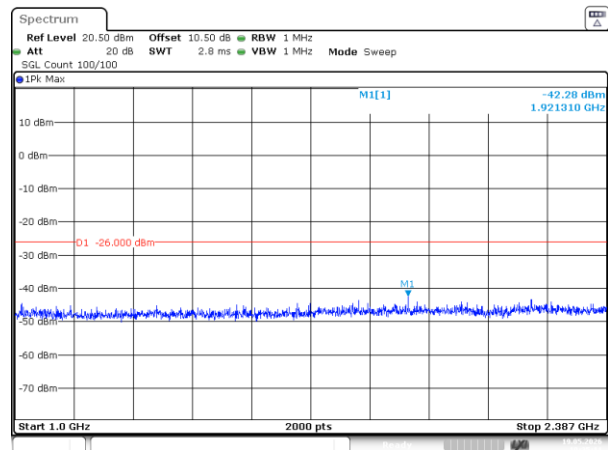
GFSK_High Channel(2.4965GHz~12.5GHz)



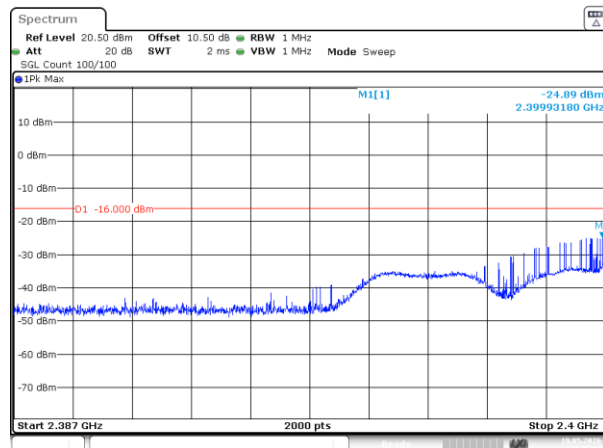
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19.Jan.2026 10:24:13

Test Condition: HV**GFSK_Low Channel(30MHz~1GHz)**

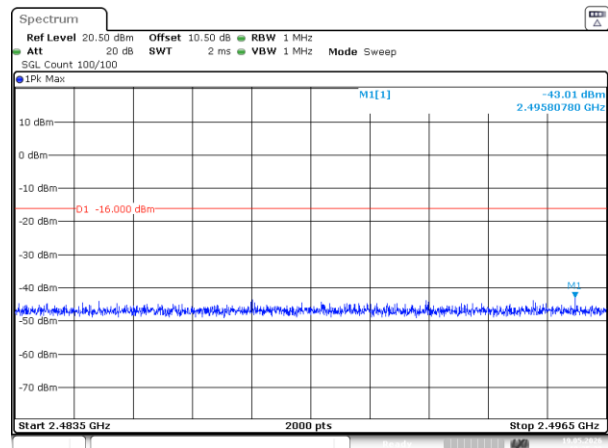
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:24:56

GFSK_Low Channel(1GHz~2.387GHz)

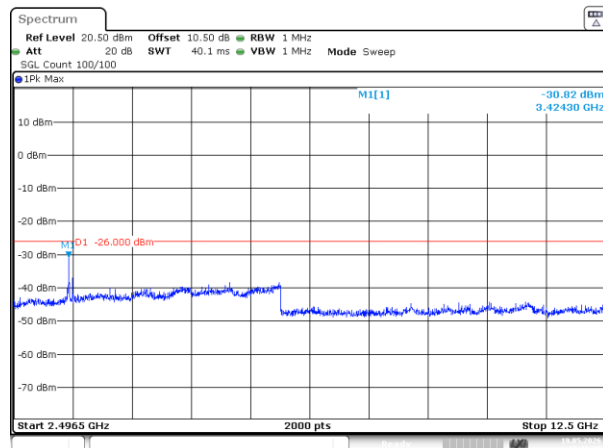
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:25:12

GFSK_Low Channel(2.387GHz~2.4GHz)

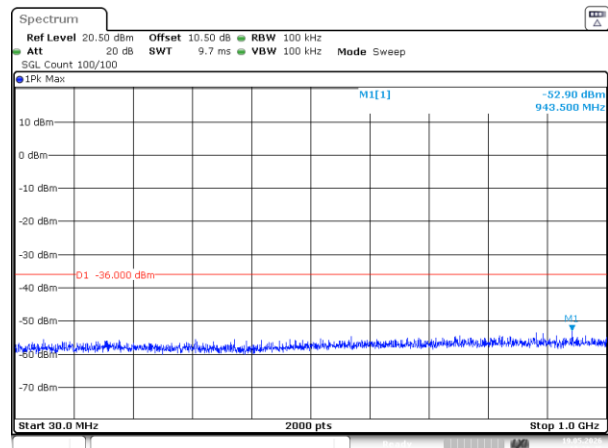
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:25:24

GFSK_Low Channel(2.4835GHz~2.4965GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:25:37

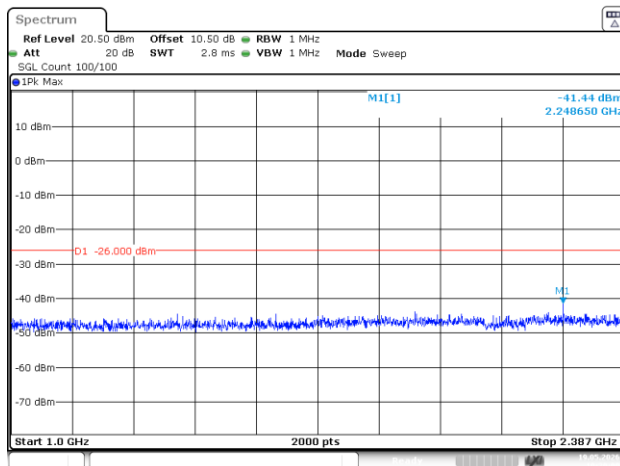
GFSK_Low Channel(2.4965GHz~12.5GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:26:08

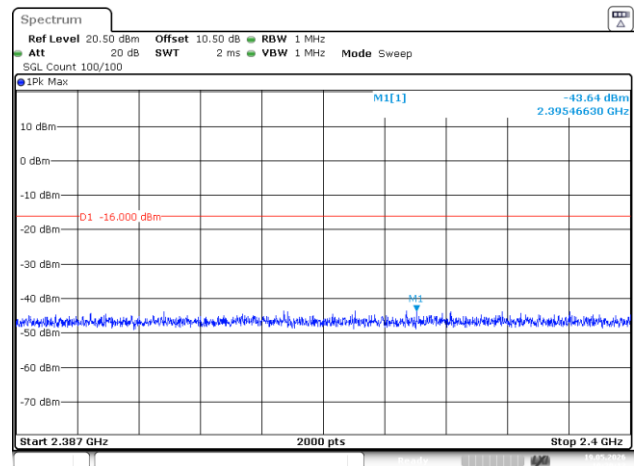
GFSK_Middle Channel(30MHz~1GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 10:28:45

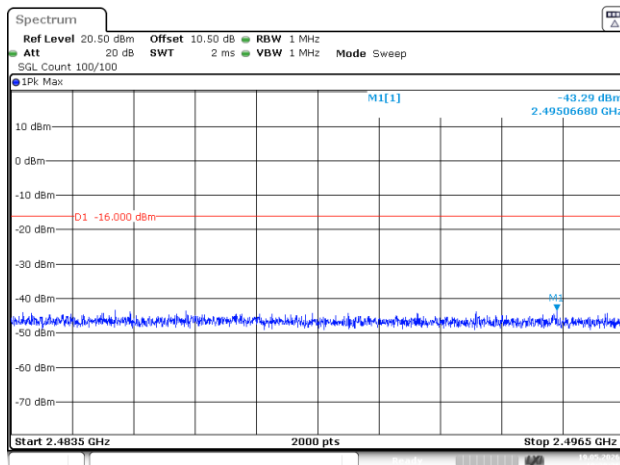
GFSK_Middle Channel(1GHz~2.387GHz)



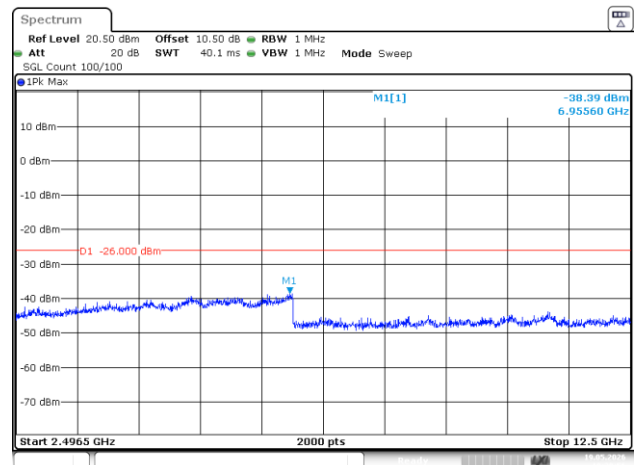
GFSK_Middle Channel(2.387GHz~2.4GHz)



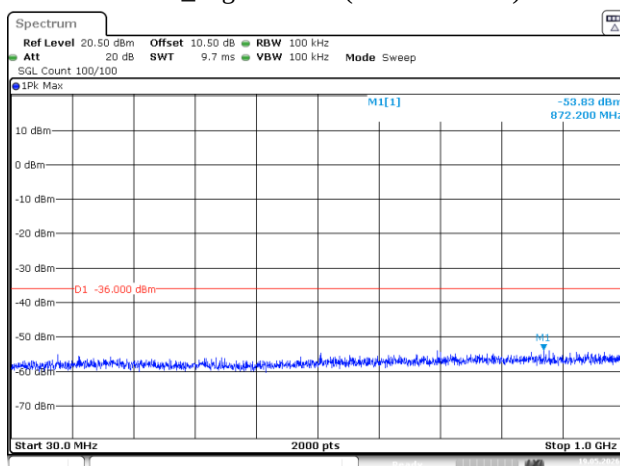
GFSK_Middle Channel(2.4835GHz~2.4965GHz)



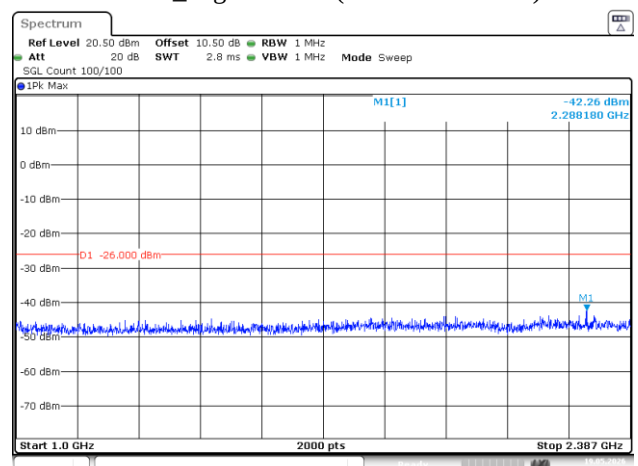
GFSK_Middle Channel(2.4965GHz~12.5GHz)



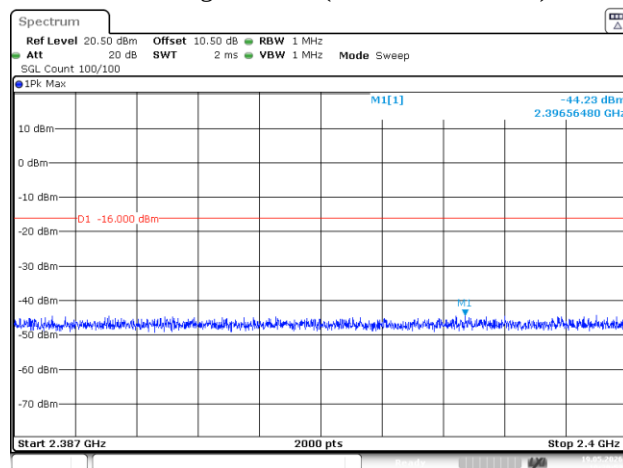
GFSK_High Channel(30MHz~1GHz)



GFSK_High Channel(1GHz~2.387GHz)

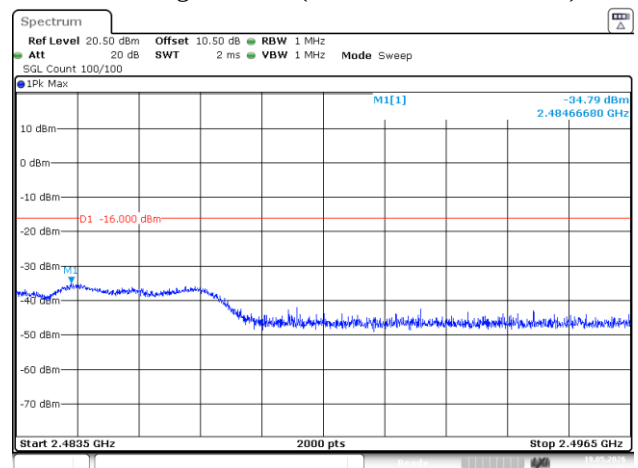


GFSK_High Channel(2.387GHz~2.4GHz)



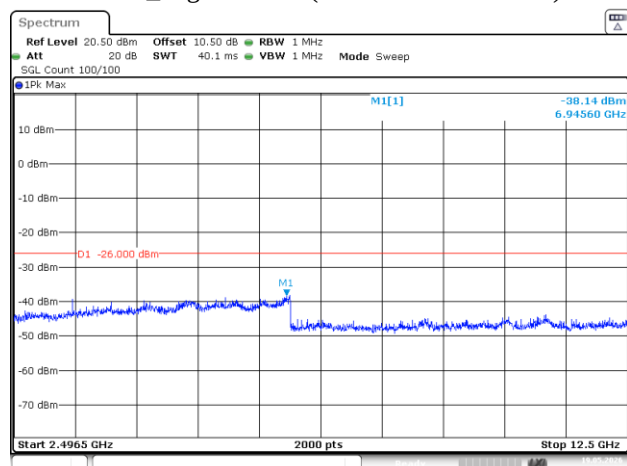
ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19-May-2026 10:30:54

GFSK_High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19-May-2026 10:31:06

GFSK_High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2603T21904E-RF Tester:Kenny Qiu
Date: 19-May-2026 10:31:37

4.5 `Antenna Output Power and Antenna Power Tolerance

Test Result: Compliant. Please refers to following tables and plots.

Test Mode: Transmitting

Mode	Antenna Gain (dBi)	Declared Power (mW)
GFSK	3.50	1.55

Mode	Test Condition	Channel	Conducted Power(dBm)	Antenna Output Power(mW)		Antenna Output Tolerance(%)		EIRP (dBm)		Verdict
				Result	Limit	Result	Limit	Result	Limit	
GFSK	LV	Low	1.85	1.531	≤ 10	-1.23	≤ 20	5.35	≤ 12.14	Pass
		Middle	1.77	1.503	≤ 10	-3.03	≤ 20	5.27	≤ 12.14	Pass
		High	1.54	1.426	≤ 10	-8.00	≤ 20	5.04	≤ 12.14	Pass
	NV	Low	1.56	1.432	≤ 10	-7.61	≤ 20	5.06	≤ 12.14	Pass
		Middle	1.04	1.271	≤ 10	-18.00	≤ 20	4.54	≤ 12.14	Pass
		High	0.84	1.213	≤ 10	-21.74	≤ 20	4.34	≤ 12.14	Pass
	HV	Low	1.44	1.393	≤ 10	-10.13	≤ 20	4.94	≤ 12.14	Pass
		Middle	1.56	1.432	≤ 10	-7.61	≤ 20	5.06	≤ 12.14	Pass
		High	1.59	1.442	≤ 10	-6.97	≤ 20	5.09	≤ 12.14	Pass

Note:

Antenna output power(mW) = $10^{\{\text{Conducted power(dBm)} / 10\}}$

Antenna output power tolerance(%) = (Antenna output power - Declared power) / Declared power * 100%

EIRP(dBm) = Conducted power(dBm) + Antenna gain.

4.6 Receiver Spurious Emission and Unwanted Emission Intensity

Test Result: Compliant. Please refers to following tables and plots.

Test Condition: LV

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
GFSK	Low	Band I (100kHz)	30	1000	838.5	-73.64	0.043	4	Pass
		Band II (1MHz)	1000	12500	6963	-58.50	1.413	20	Pass
	Middle	Band I (100kHz)	30	1000	975.27	-73.97	0.040	4	Pass
		Band II (1MHz)	1000	12500	6917	-58.10	1.549	20	Pass
	High	Band I (100kHz)	30	1000	923.86	-72.45	0.057	4	Pass
		Band II (1MHz)	1000	12500	6928	-58.31	1.476	20	Pass

Test Condition: NV

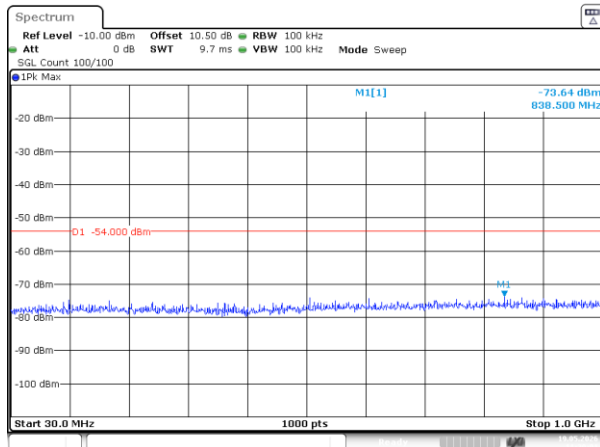
Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
GFSK	Low	Band I (100kHz)	30	1000	894.76	-73.47	0.045	4	Pass
		Band II (1MHz)	1000	12500	6963	-58.25	1.496	20	Pass
	Middle	Band I (100kHz)	30	1000	858.87	-74.04	0.039	4	Pass
		Band II (1MHz)	1000	12500	6986	-57.19	1.910	20	Pass
	High	Band I (100kHz)	30	1000	998.55	-72.71	0.054	4	Pass
		Band II (1MHz)	1000	12500	6986	-58.01	1.581	20	Pass

Test Condition: HV

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
GFSK	Low	Band I (100kHz)	30	1000	950.05	-73.65	0.043	4	Pass
		Band II (1MHz)	1000	12500	6951	-58.21	1.510	20	Pass
	Middle	Band I (100kHz)	30	1000	747.32	-74.03	0.040	4	Pass
		Band II (1MHz)	1000	12500	6974	-57.91	1.618	20	Pass
	High	Band I (100kHz)	30	1000	940.35	-73.88	0.041	4	Pass
		Band II (1MHz)	1000	12500	6997	-58.18	1.521	20	Pass

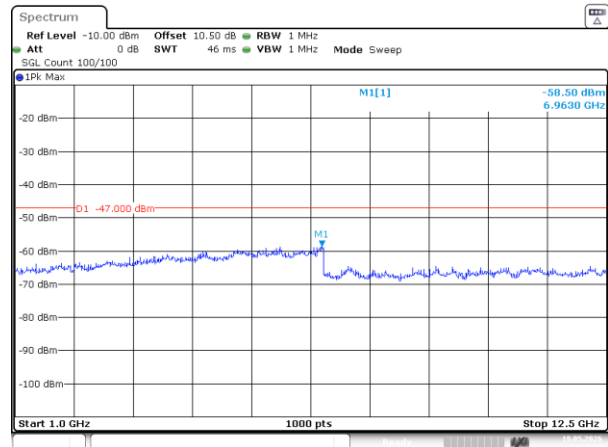
The test plots as following:**Test Condition: LV**

GFSK_Low Channel(30MHz~1GHz)



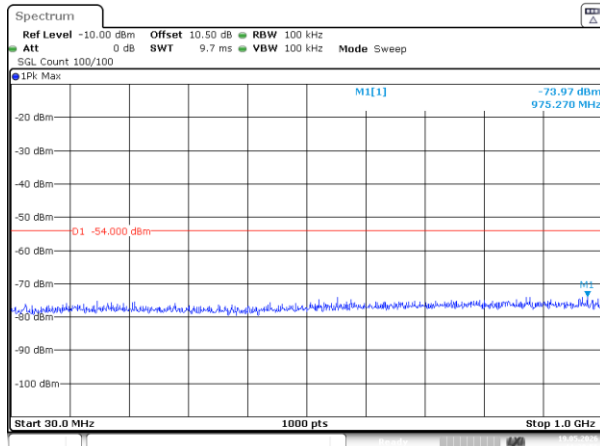
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-July-2026 11:20:01

GFSK_Low Channel(1GHz~12.5GHz)



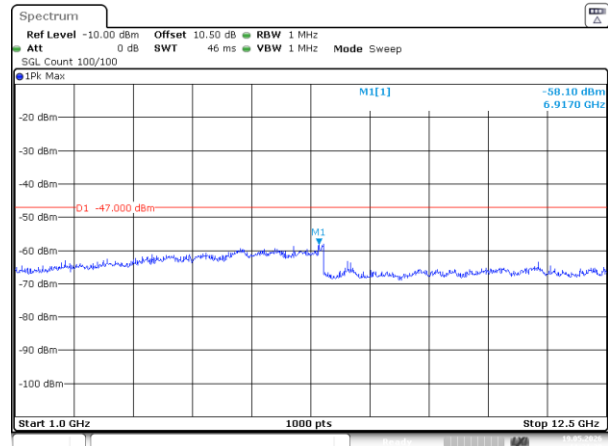
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-July-2026 11:20:34

GFSK_Middle Channel(30MHz~1GHz)



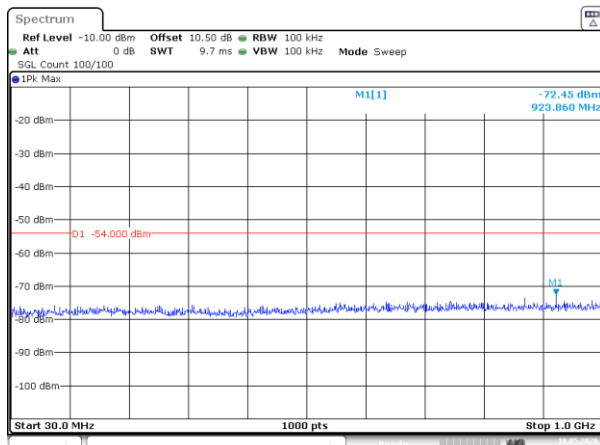
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-July-2026 11:20:56

GFSK_Middle Channel(1GHz~12.5GHz)



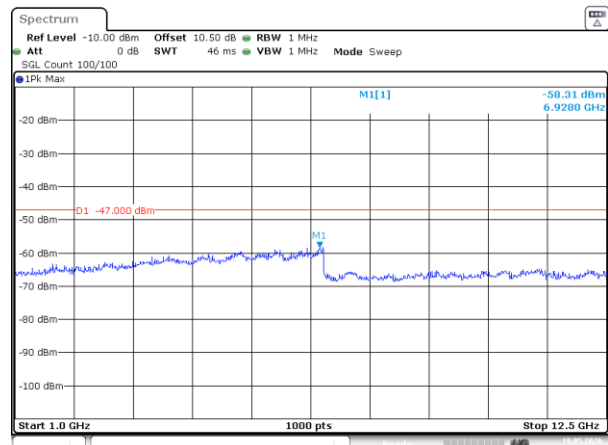
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-July-2026 11:21:29

GFSK_High Channel(30MHz~1GHz)

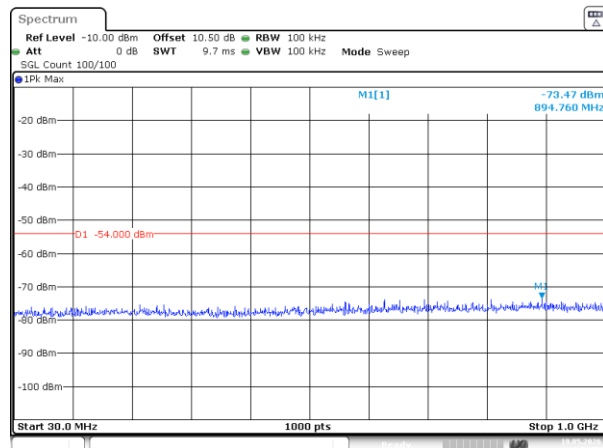


ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-July-2026 11:22:50

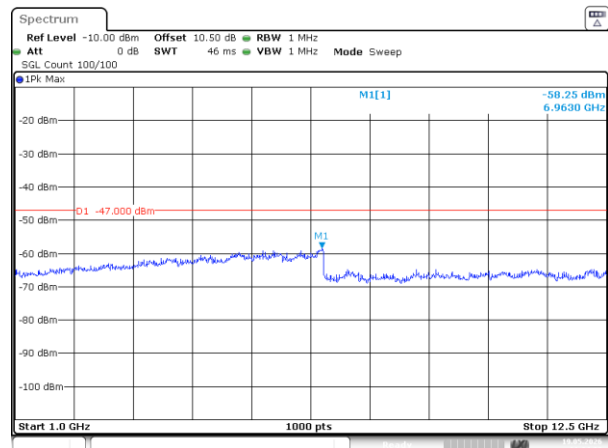
GFSK_High Channel(1GHz~12.5GHz)



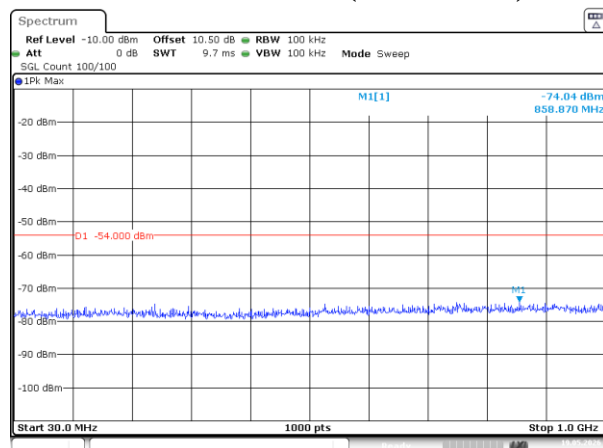
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-July-2026 11:23:23

Test Condition: NV**GFSK_Low Channel(30MHz~1GHz)**

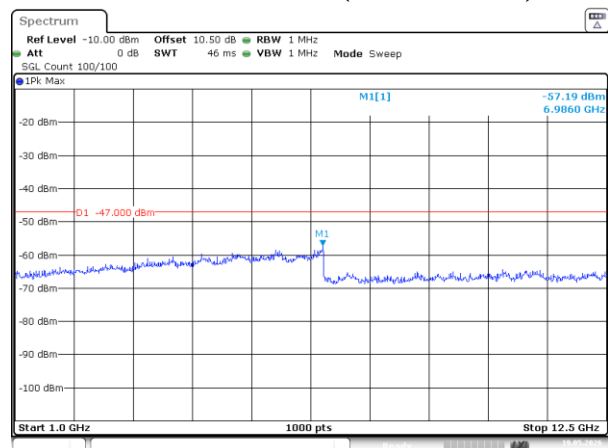
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:23:53

GFSK_Low Channel(1GHz~12.5GHz)

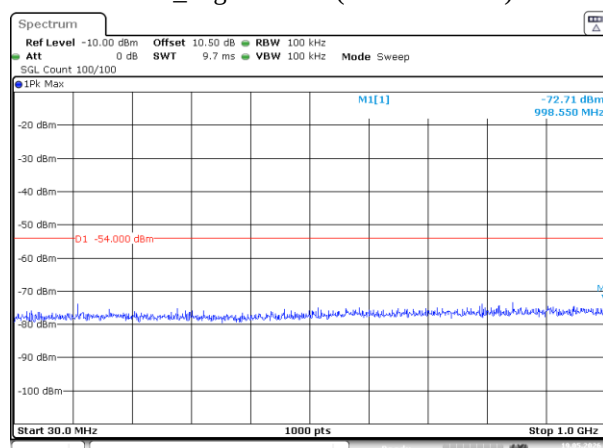
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:24:28

GFSK_Middle Channel(30MHz~1GHz)

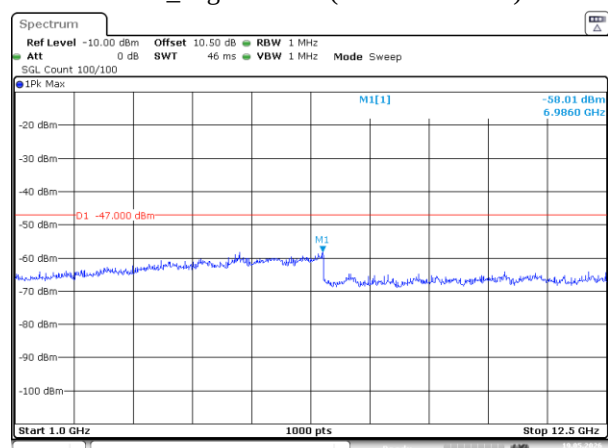
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:24:55

GFSK_Middle Channel(1GHz~12.5GHz)

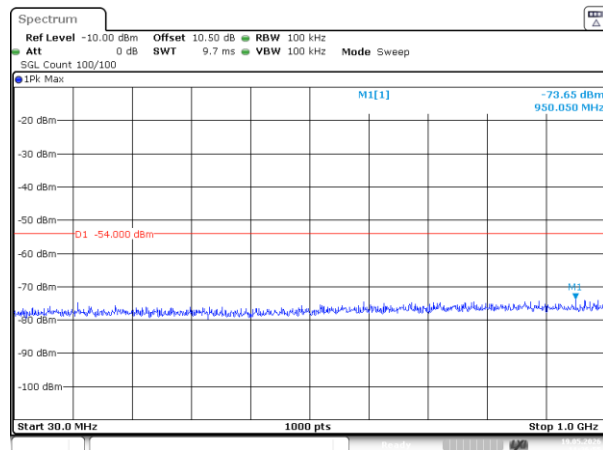
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:25:28

GFSK_High Channel(30MHz~1GHz)

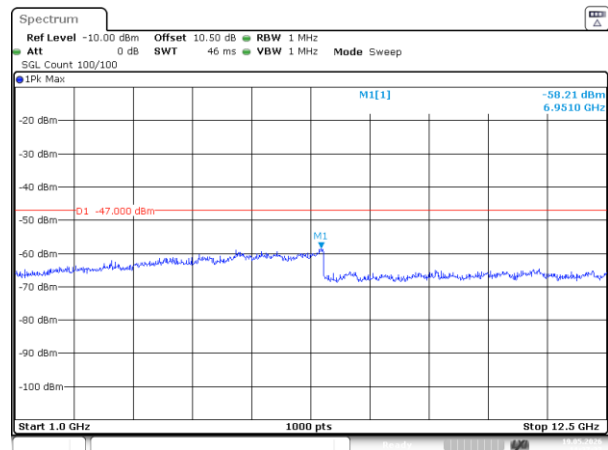
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:25:51

GFSK_High Channel(1GHz~12.5GHz)

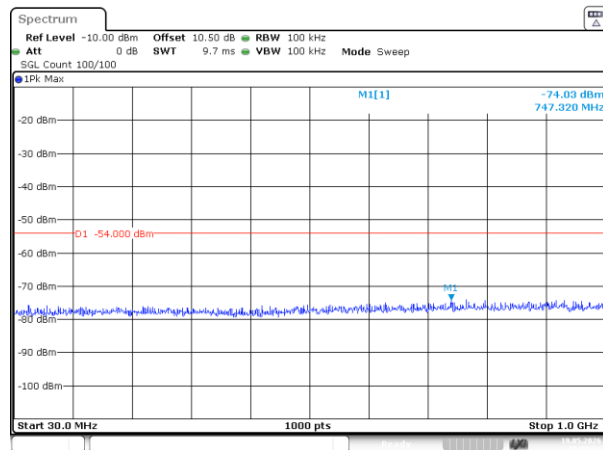
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:26:24

Test Condition: HV**GFSK_Low Channel(30MHz~1GHz)**

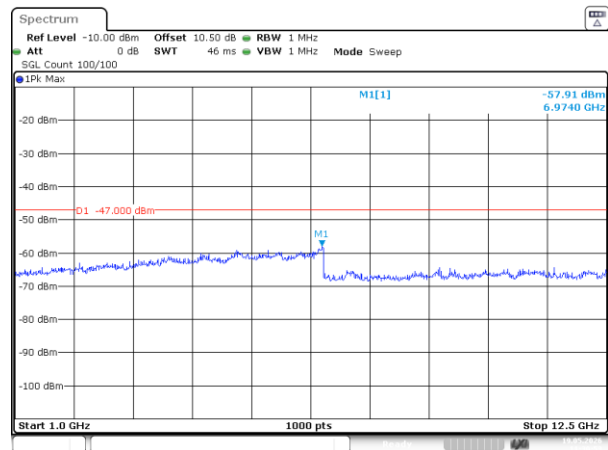
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:26:55

GFSK_Low Channel(1GHz~12.5GHz)

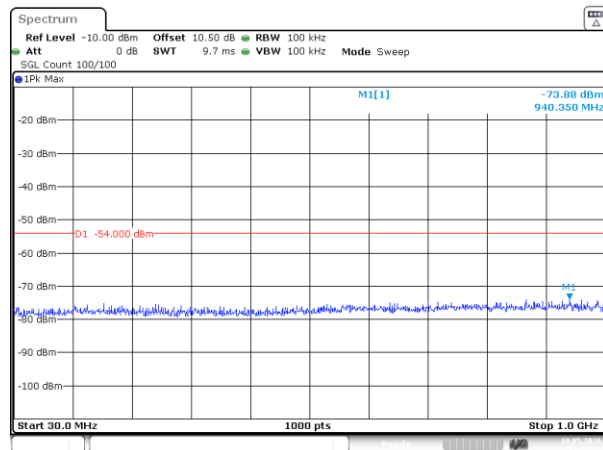
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:27:27

GFSK_Middle Channel(30MHz~1GHz)

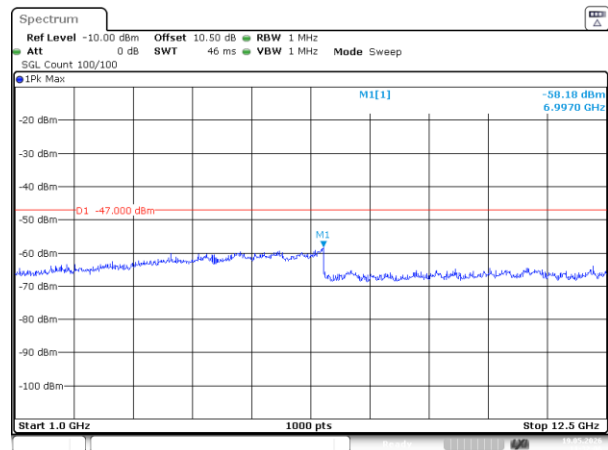
ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:30:21

GFSK_Middle Channel(1GHz~12.5GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:30:53

GFSK_High Channel(30MHz~1GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:31:32

GFSK_High Channel(1GHz~12.5GHz)

ProjectNo.: 2603T21904E-RF Tester: Henry Qiu
Date: 19-JUN-2026 11:32:05

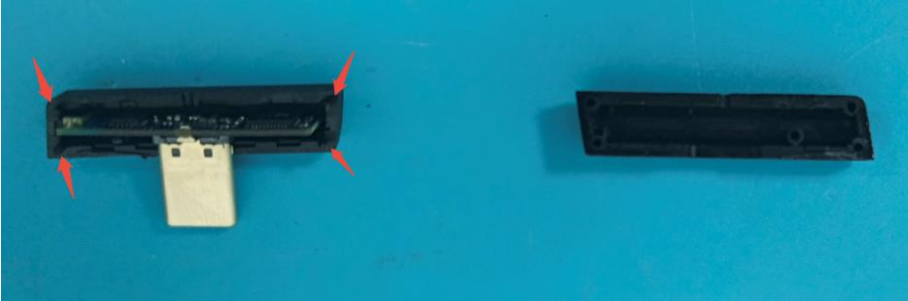
4.7 Interference Prevention Function

Test Result: Compliant. Please refers to following table.

Item	Result	Requirement	Verdict
Methodology to transmit ID Code:	Automatically	Automatically	Compliant
Methodology to receive ID Code:	Automatically	Automatically	Compliant
Identification Codes (ID Codes):	2d:5d:e8:d8:13:fb	/	/
Bits of ID Codes:	48 bits	48 bits or more	Compliant
Screenshot:	2d:5d:e8:d8:13:fb		

4.8 Construction Protection Confirmation

Result: Compliant. please see the below table.

☐	Sealed with screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Cover is glued using a special adhesive.
☐	Metal covers are spot-fused.
☒	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Other If 'Other', describe the method here. Then delete this text.
Photographs	
	

5. EUT PHOTOGRAPHS

Please refer to the attachment 2603T21904E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603T21904E-RF-INP EUT INTERNAL PHOTOGRAPHS.

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603T21904E-RF-07-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******