



TEST REPORT

Applicant : M5Stack Technology Co., Ltd
Address : Block A10, Expo Bay South Coast, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Report Number : 2504A09666E-RF

Test Standard (s)

Japan item 8 of Article 2 Paragraph 1

Sample Description

Product Type: M5Cap LoRa-1262
Model No.: Cap LoRa-1262
Trade Mark: 
M5STACK

Date Received: 2025-12-17
Report Date: 2026-02-05

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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Amanda Wei
EMC Engineer

Approved By:

Bob Liao

Bob Liao
EMC Engineer

Note: The information marked “#” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked.
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504A09666E-RF	Original Report	2026-02-05

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product		M5Cap LoRa-1262
Tested Model		Cap LoRa-1262
Technical Parameters	Modulation Type	LoRa
	Frequency Range	922.0MHz-923.4MHz
	Nominal Bandwidth	125kHz&500kHz
	Rate Output Power [#]	125kHz: 5mW 500kHz: 1.5mW
	Antenna Gain [#]	2.14dBi (provided by the applicant)
Nominal Power Supply [#]		DC 5V from Auxiliary device
Sample serial number		3ELR-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status		Good condition

Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 8 of Article 2 Paragraph 1.

Test Methodology

All measurements contained in this report were conducted with technical regulations of the Radio Law of Japan MIC Notice No.88, Appendix No.22-3.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Channel List as below:(It is provided by the applicant.)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	922.0	4	922.8
1	922.2	5	923.0
2	922.4	6	923.2
3	922.6	7	923.4

EUT was tested with Channel 0, 4 and 7. (It is provided by the applicant.)

Test Voltage[#]

The EUT in built a power manage system, power deviation of the RF chipset input is equal to or less than +/-1% when extreme voltage supplied, therefore the test only performed at normal condition. Details an following:

Voltage Condition	Input(V _{DC})	RF System Voltage(V _{DC})
LV	4.5	3.29
NV	5	3.30
HV	5.5	3.29

Test voltage: DC 5V(Normal Voltage) (It is provided by the applicant.)

EUT Exercise Software and Power Level[#]

Testing in the engineering mode and the power level is 9.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

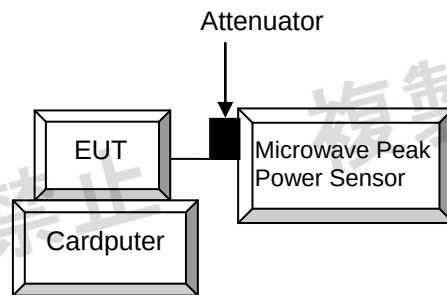
Manufacturer	Description	Model	Serial Number
Unknown	Cardputer	ADV	Unknown

External I/O Cable

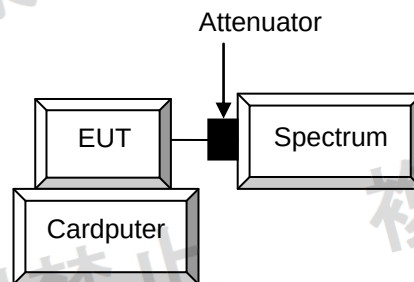
Cable Description	Length (m)	From Port	To
Un-shielding Un-detachable RF cable	0.3	EUT	Attenuator/ Test equipment

Configuration of Test Setup

For Output Power and Output Power Tolerance:



Other test items:



SUMMARY OF TEST RESULTS

MIC Notice No.88, Appendix No.22-3; Item 8 of Article 2 Paragraph 1

Item	Description of Test	Result
1	Frequency Error	Compliance
2	Antenna Output Power and Output Power Tolerance	Compliance
3	Occupied Bandwidth	Compliance
4	Spurious Emission and Unwanted EmissionStrength, Spurious area	Compliance
5	Adjacent channel Emitted Power and Out-Band Leakage Power	Compliance
6	Secondary Radiated Emission Strength	Not Applicable
7	Transmission Time Restriction Device	Compliance
8	Carrier Sensing Function	Compliance
Note 1	Construction Protection Confirmation	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
Anritsu	Microwave Peak Power Sensor	MA24418A	12619	2025/03/26	2026/03/25	BACL Cal	C
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101948	2025/09/18	2026/09/17	BACL Cal	C
WEINSCHEL	10dB Attenuator	5324	AU 3842	2025/03/26	2026/03/25	BACL Cal	C
Unknown	RF Coaxial Cable	No.35	/	2025/05/30	2026/05/29	BACL Cal	C
Unknown	RF Coaxial Cable	No.36	/	2025/05/30	2026/05/29	BACL Cal	C
Mini-Circuits	Power Splitter	ZFRSC-18 3-S+	SF10944 151S	2025/03/26	2026/03/25	BACL Cal	C
AGILENT	Vector Signal Generator	N5182A	MY50143 401	2025/09/17	2026/09/16	BACL Cal	C

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that 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.51of1992)
- 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.

FREQUENCY TOLERANCE MEASUREMENT

Limit

- 20 ppm or below

Test Procedure

Set the EUT to the measurement frequency without modulation.

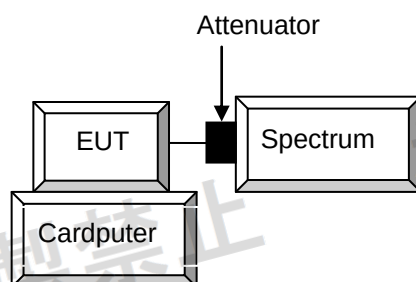
Spectrum Analyzer Conditions

- Center Frequency: Frequency to measure
- RBW: 1 kHz, VBW: 1 kHz
- 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 99% Bandwidth center frequency.

Measurement System Diagram



Note: Offset=RF cable loss(0.5dB#)+ Attenuator(10dB)

Test Data

Please refer to the Appendix.

ANTENNA OUTPUT POWER AND OUTPUT POWER TOLERANCE MEASUREMENT

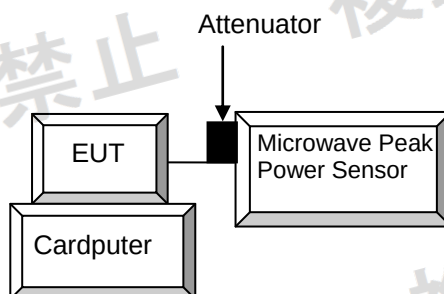
Limit

- The output power should be 20mW or less (0.25W or less: When the radio equipment shall be housed in a single cabinet, and the cabinet shall not be capable of being opened).
- The Output Power Tolerance must be within +20%, -80%.
- The EIPR should be 40mW (16 dBm) or less.
- The Antenna Gain should be 3dBi or less.

Test Procedure

- Connect the EUT antenna port to Power meter with RF cable
- Power meter Detector: Average, Auto Duty factor
- Set the EUT Frequency to measure, test mode continuous transmitting.

Measurement System Diagram



Note: Offset=RF cable loss(0.5dB#)+ Attenuator(10dB)

Test Data

Please refer to the Appendix.

OCCUPIED BANDWIDTH

Limit

- Occupied bandwidth: 200kHz for n=1 & 600kHz for n=3

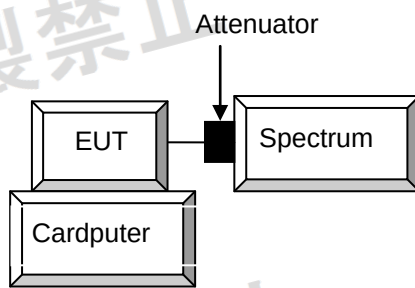
Test Procedure

Setting of SA is following as:

- RBW: 3 kHz, VBW: 3 kHz
- Sweep time: Auto
- Sweep Mode: Continuous sweep
- Detect mode: Positive peak
- Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

Measurement System Diagram



Note: Offset=RF cable loss(0.5dB[#])+ Attenuator(10dB)

Test Data

Please refer to the Appendix.

SPURIOUS EMISSION AND UNWANTED EMISSIONSTRENGTH, SPURIOUS AREA

Limit

Frequency Band	Limit
Band I: ≤ 710 MHz	-36 dBm/100kHz
Band II: $710 < f \leq 900$ MHz	-55 dBm/1MHz
Band III: $900 < f \leq 915$ MHz	-55 dBm/100kHz
Band IV: $915 < f \leq 930$ MHz*	-36 dBm/100kHz
Band V: $930 < f \leq 1000$ MHz	-55 dBm/100kHz
Band VI: $1000 < f \leq 1215$ MHz	-45 dBm/1MHz
Band VII: $1215 \text{ MHz} < f$	-30 dBm/1MHz
* Unit channel 200kHz BW: except “200+100*n kHz” from fC. f up to 5 times harmonic.	

Test Procedure

Conditions of Application Equipment (EUT)

●Step 1: Set the frequency band and search the maximum emission. If step1 test over the limit, the step 2 test procedure should be used:

●Step 2:

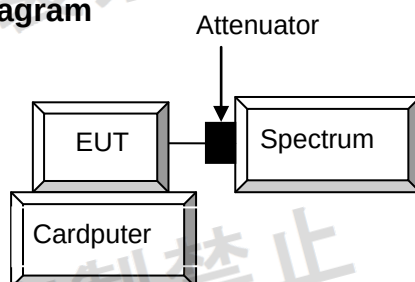
Center frequency: Searched Frequency

Span: 0Hz

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

Measurement System Diagram



Note: Offset=RF cable loss(0.5dB[#])+ Attenuator(10dB)

Test Data

Please refer to the Appendix.

ADJACENT CHANNEL LEAKGE POWER AND OUT-BAND LEAKAGE POWER

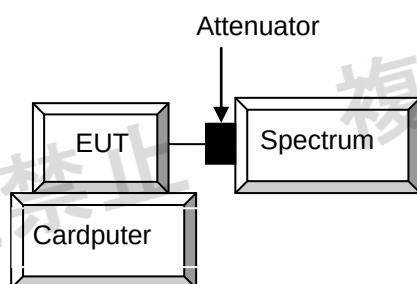
Limit

- Adjacent unit Channels: -15 dBm or less

Test Procedure

- Set the EUT Frequency to measure
- Use ACLR test function
- Detector: Peak

Measurement System Diagram



Note: Offset=RF cable loss(0.5dB[#])+ Attenuator(10dB)

Test Data

Please refer to the Appendix.

SECONDARILY EMITTED RADIO WAVE STRENGTH MEASUREMENT**Limit**

Frequency Band	Limit
Band I: ≤ 710 MHz	-54 dBm/100kHz
Band II: $710 < f \leq 900$ MHz	-55 dBm/1MHz
Band III: $900 < f \leq 915$ MHz	-55 dBm/100kHz
Band IV: $915 < f \leq 930$ MHz	-54 dBm/100kHz
Band V: $930 < f \leq 1000$ MHz	-55 dBm/100kHz
Band VI: $1000 \text{ MHz} < f$	-47 dBm/1MHz

Test Procedure

Conditions of Application Equipment (EUT)

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

Spectrum Analyzer Conditions

- Step 1: Set the frequency band and search the maximum emission . If step1 test over the limit, the step 2 test procedure should be used:

- Step 2: Center frequency: Searched Frequency

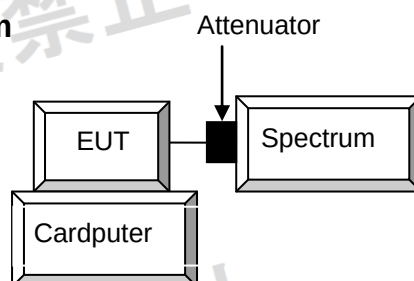
Span: 0Hz.

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

Measurement System Diagram

Note: Offset=RF cable loss(0.5dB#)+ Attenuator(10dB)

Test Data

Please refer to the Appendix.

TRANSMISSION TIME RESTRICTION DEVICE

Limit

- Transmission ON: < 0.4s
- Transmission OFF: > 0.002s
- Total transmission time: <720s/1h, for each radio channel: <360s/1h

Test Procedure

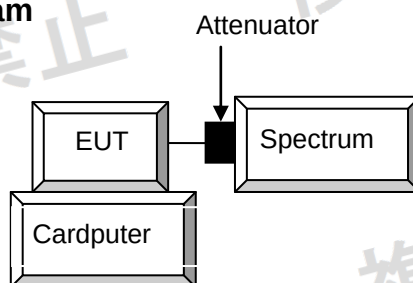
Conditions of Application Equipment (EUT).

- Set the application equipment (EUT) to the measurement frequency.
- The modulation state shall be “continuous (burst) transmission mode”. If impossible, it shall be “continuous frequency-hopping mode”.

Spectrum Analyzer Conditions

- Span: ZERO SPAN;
- Test the On and Off Time

Measurement System Diagram



Note: Offset=RF cable loss(0.5dB[#])+ Attenuator(10dB)

Test Data

Please refer to the Appendix.

CARRIER SENSING FUNCTION

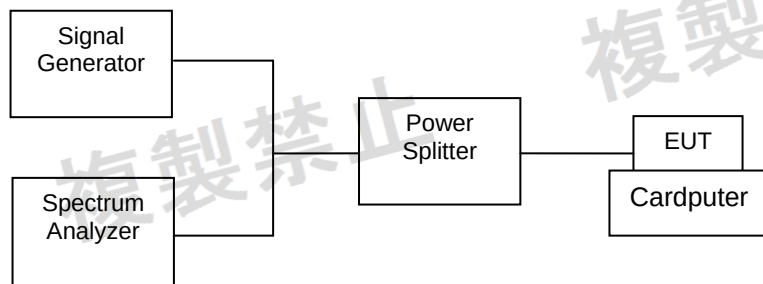
Requirement

EUT stop RF transmission signal after carrier inject to EUT.

Test Procedure

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and Set the output level of the standard signal generator to -80dBm at the antenna connection terminal of the test equipment. In this case, if the antenna's absolute gain is 2.14dBi or more, add the difference to -80dBm.
2. The spectrum analyzer settings are as follows: Center frequency Center frequency of the used:
 - RBW=100kHz/VBW=100kHz
 - Span=300kHz
 - Trigger Condition: Free Run
 - Detection Mode: Positive Peak
3. Turn off the RF signal of the SG and set the test equipment to transmit operation and check that the spectrum analyzer emits radio waves.
4. Set the test equipment to receive status.
5. With the output of the standard signal generator turned on, set the test equipment to transmit operation and check that the spectrum analyzer does not emit radio waves.

Measurement System Diagram



Test Data

Please refer to the Appendix.

CONSTRUCTION PROTECTION CONFIRMATION

Limit

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

Confirmation Method

The EUT was locked by the special buckle which can't be opened easily, please see the EUT photos

APPENDIX

Appendix A: Frequency Error

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/25-2025/12/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.4-25.1	Relative Humidity: (%)	42-46	ATM Pressure: (kPa)	100.9
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Test Data Table

Modulation Mode: NV

Nominal Bandwidth (kHz)	Frequency (MHz)	F _L (MHz)	F _H (MHz)	Measure Frequency (MHz)	Frequency tolerance(ppm)	Limit (ppm)
125	922	921.935625	922.062575	921.99910	-0.98	-20≤Limit≤20
	922.8	922.735475	922.862575	922.79903	-1.06	
	923.4	923.335625	923.462575	923.39910	-0.97	
500	922	921.751275	922.255575	922.00343	3.71	
	922.8	922.544075	923.053725	922.79890	-1.19	
	923.4	923.145525	923.653725	923.39963	-0.41	

Note1: Frequency tolerance = (Measure Frequency-Center Frequency)*10⁶/Center Frequency

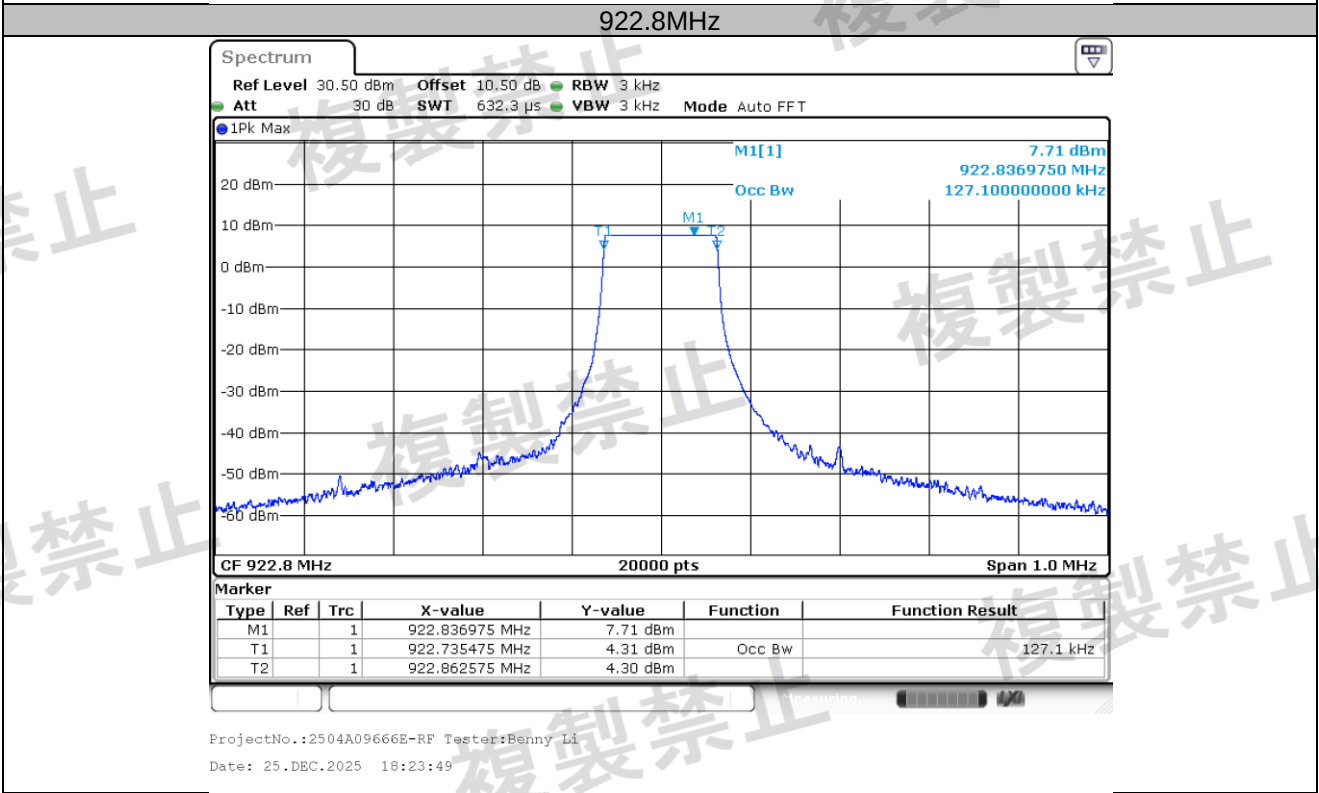
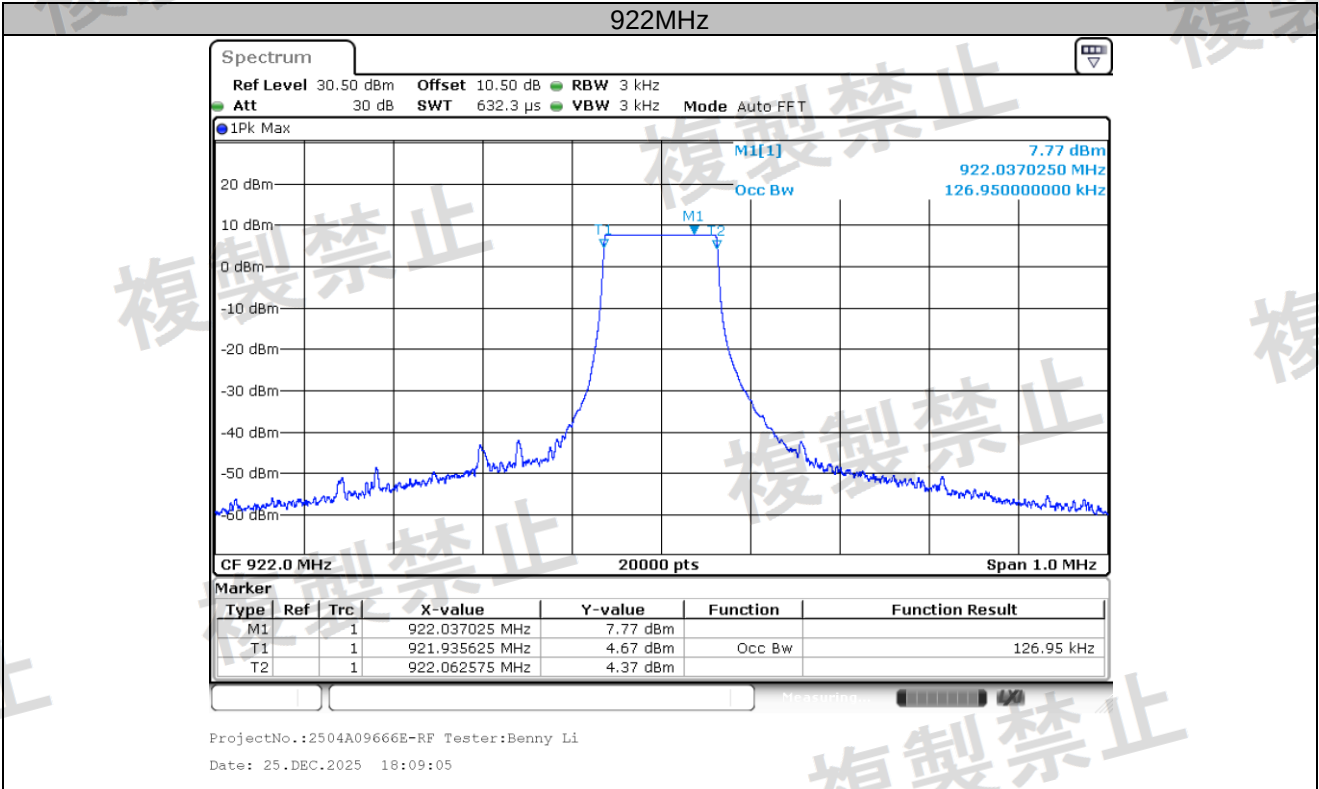
Note 2: Measure Frequency= (F_L+F_H)/2,

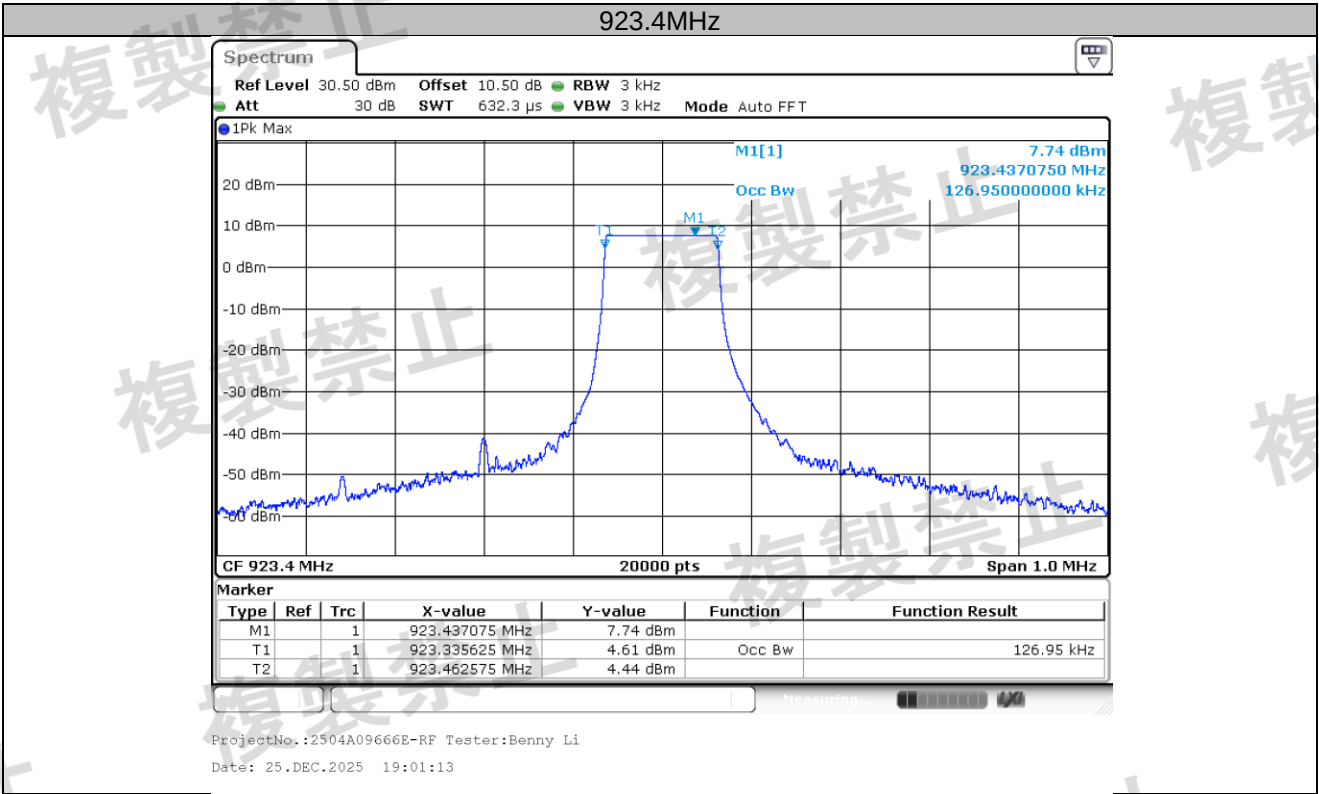
F_L is the frequency of OBW lower marker resulting.

F_H is the frequency of OBW upper marker resulting.

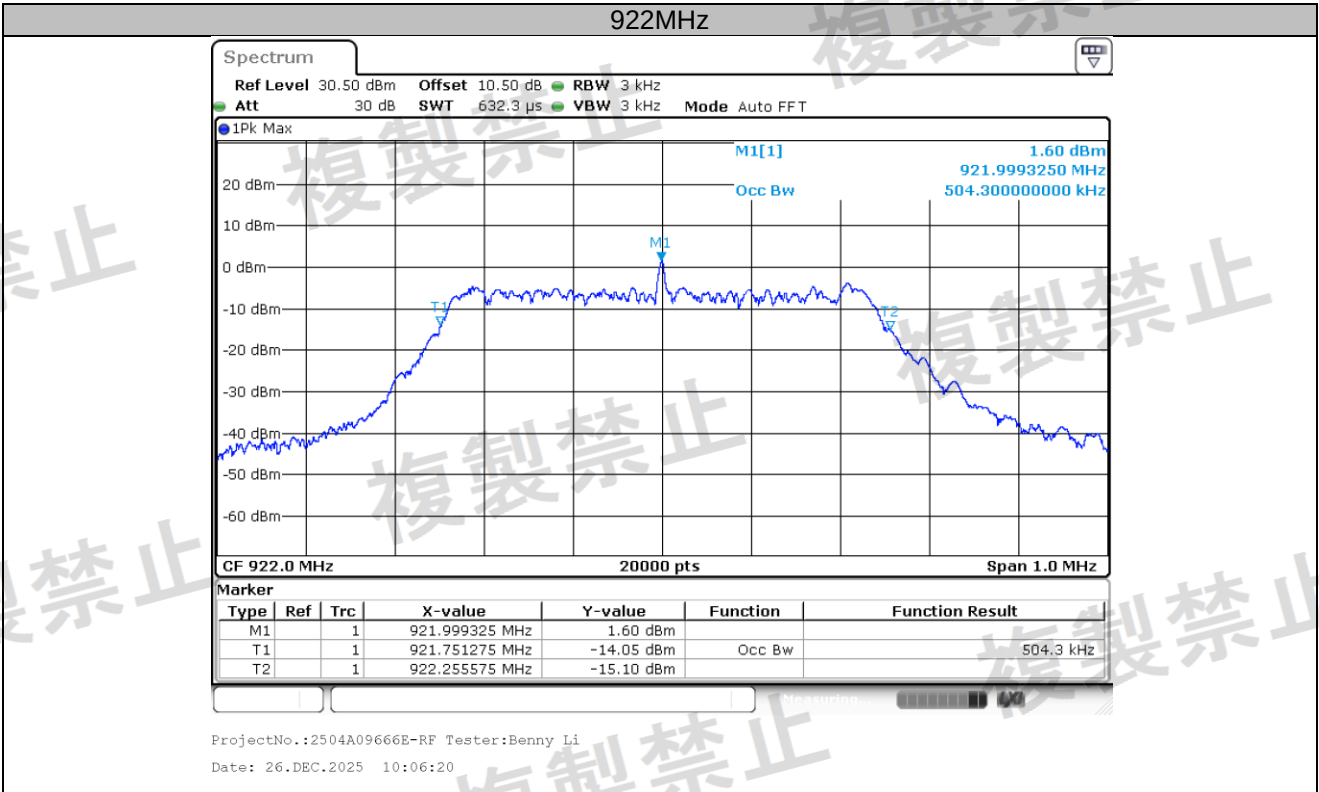
Test Graphs

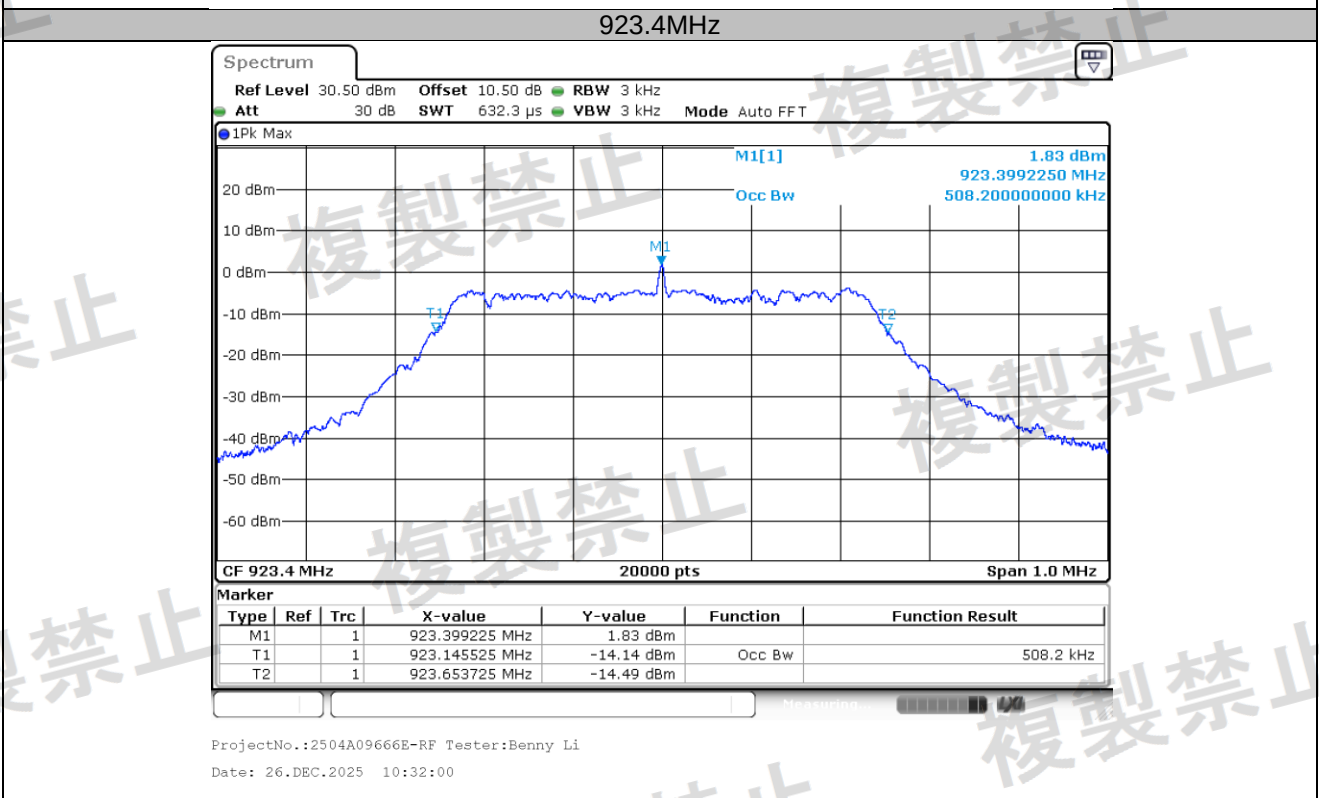
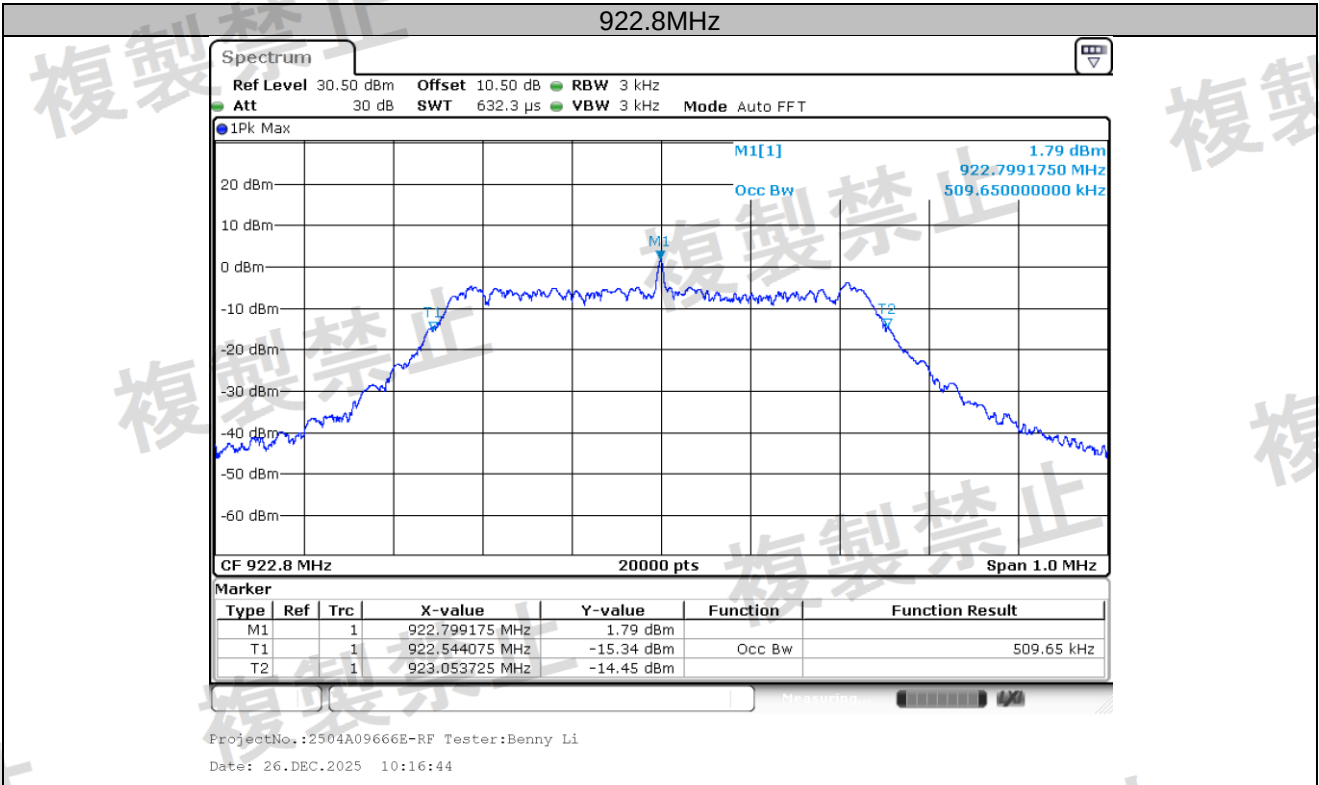
For 125kHz:





For 500kHz:





Appendix B: Antenna Output Power Tolerance

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	46	ATM Pressure: (kPa)	100.9
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Test Data Tables

For 125kHz:

Frequency	Low channel	Middle channel	High channel	Limit
Antenna Output Power (dBm)	6.55	6.56	6.51	13
Antenna Output Power (mW)	4.519	4.529	4.477	20
Rated output power (mW)	5	5	5	\
Antenna Output Power Tolerance (%)	-9.62	-9.42	-10.46	-80 ~ +20
EIRP(dBm)	8.690	8.700	8.650	16

For 500kHz:

Frequency	Low channel	Middle channel	High channel	Limit
Antenna Output Power (dBm)	1.36	1.51	1.58	13
Antenna Output Power (mW)	1.368	1.416	1.439	20
Rated output power (mW)	1.5	1.5	1.5	\
Antenna Output Power Tolerance (%)	-8.80	-5.60	-4.07	-80 ~ +20
EIRP(dBm)	3.500	3.650	3.720	16

Note 1: Antenna output power tolerance = (Antenna output power - Rated output power)/ Rated output power *100%

Note 2: The antenna gain is 2.14dBi#.

Note 3: EIRP(dBm)= Antenna Output Power Reading(dBm)+ Antenna gain

Note 4: The declared power and antenna gain were declared by manufacturer

Appendix C: Occupied Bandwidth

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/25-2025/12/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

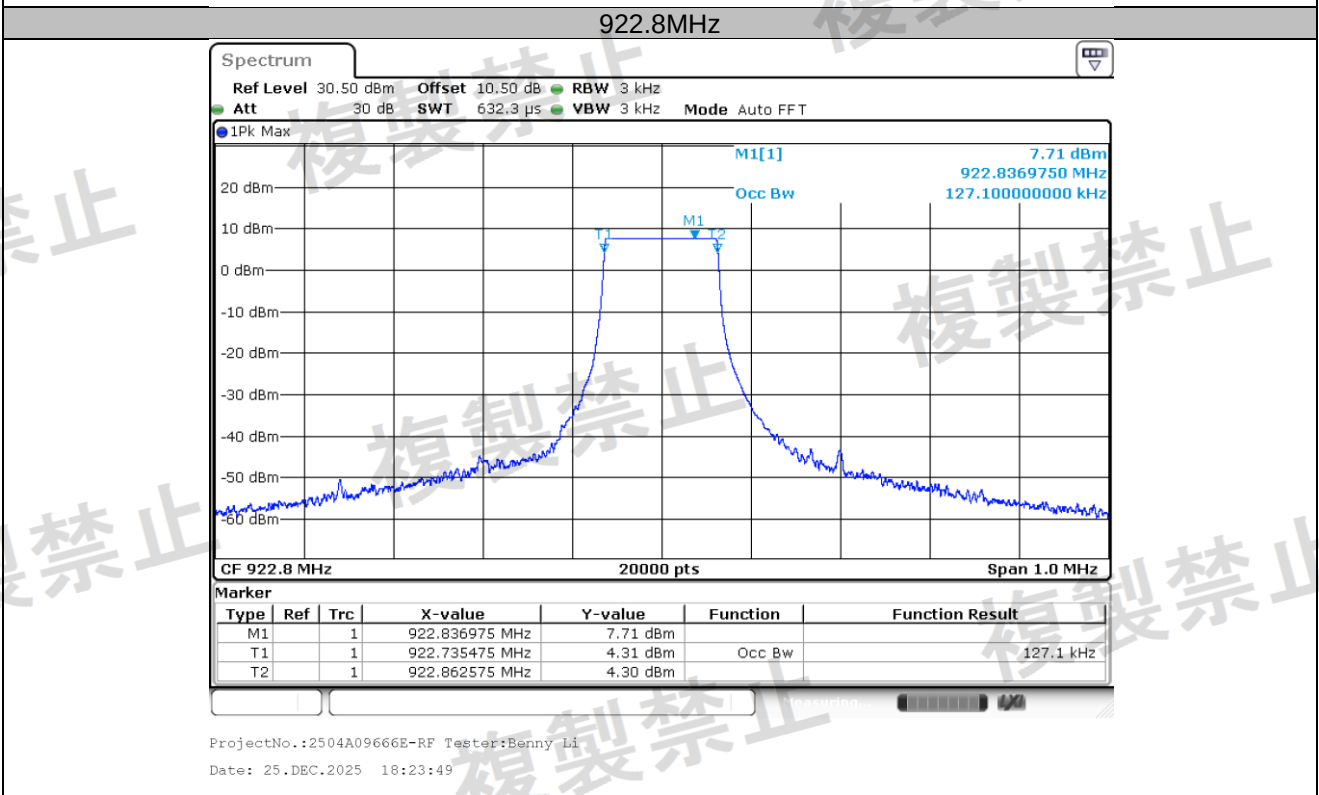
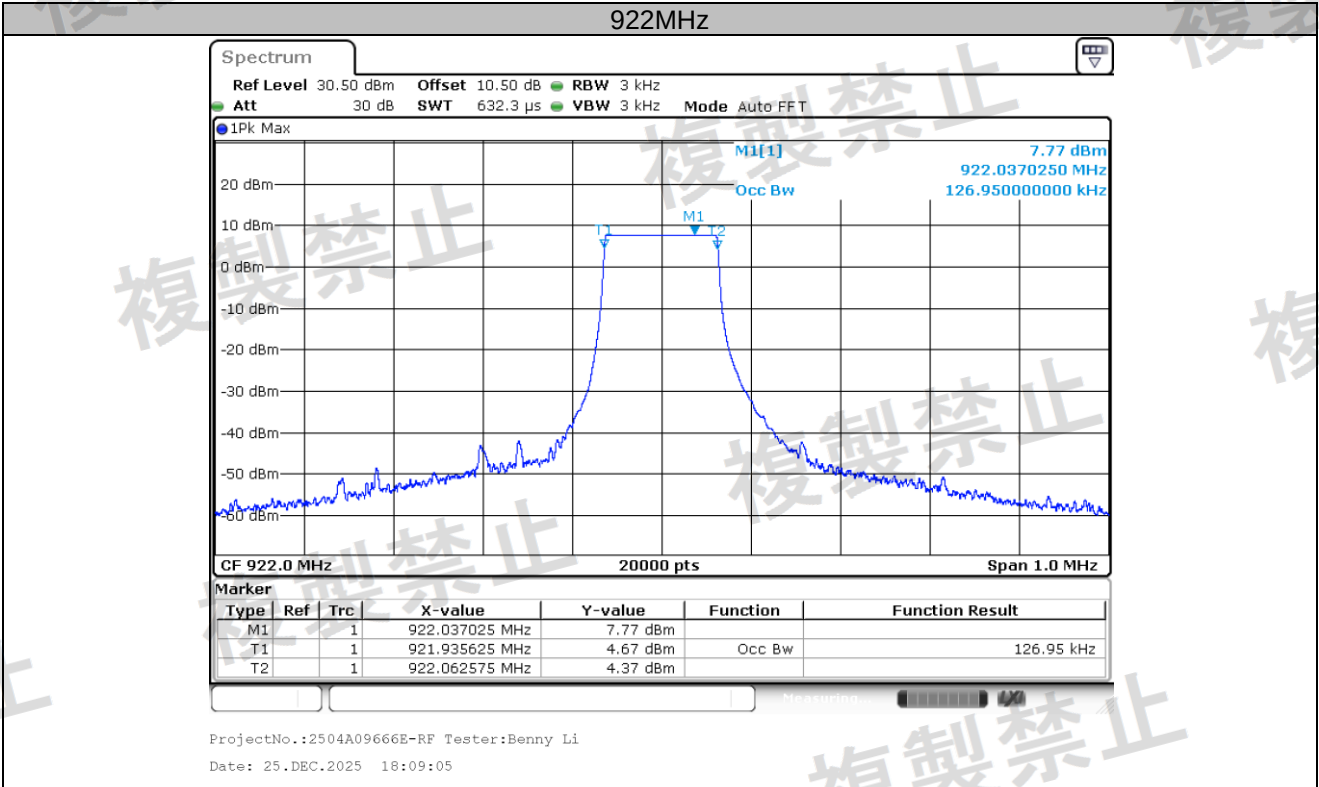
Temperature: (°C)	24.4-25.1	Relative Humidity: (%)	46-48	ATM Pressure: (kPa)	100.9
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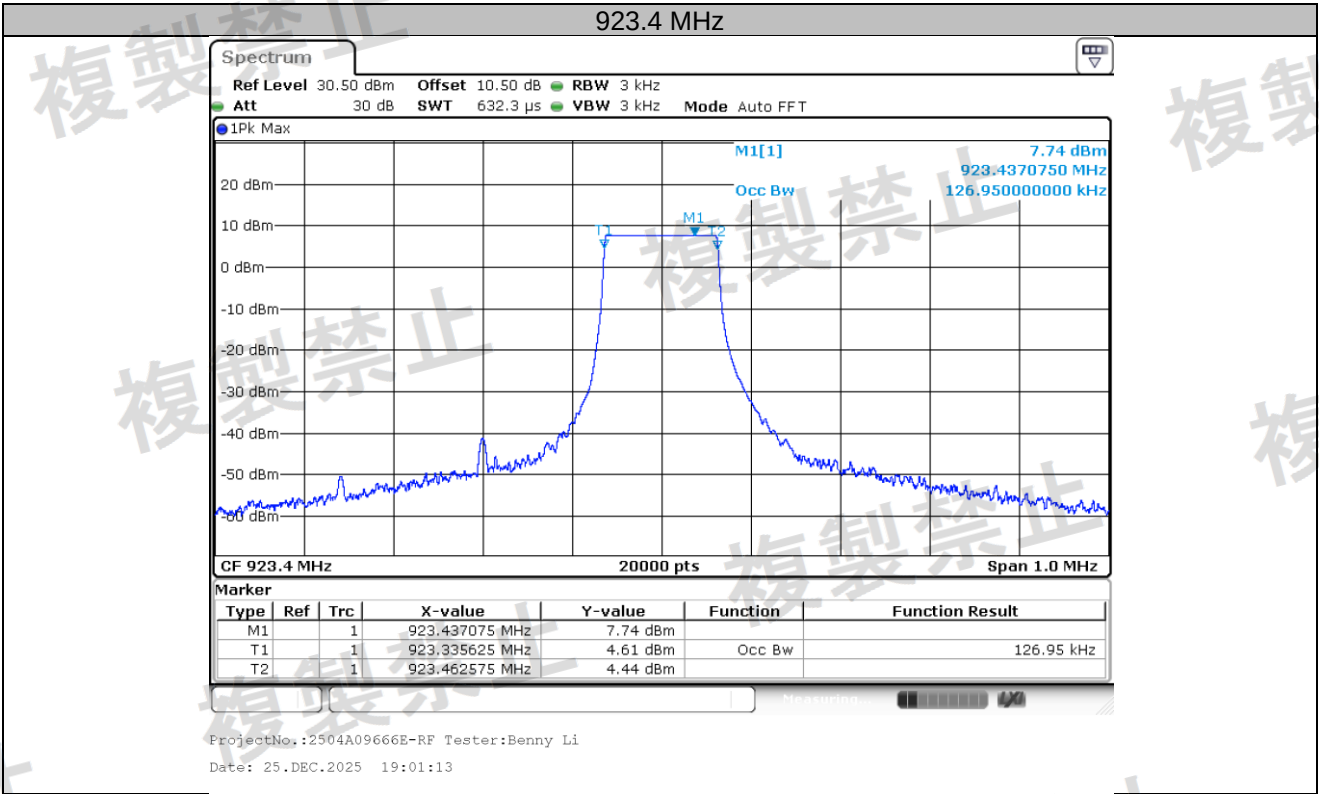
Test Data Table

Nominal Bandwidth (kHz)	Frequency (MHz)	99%OBW(kHz)	Limit (kHz)	Result
125	922	126.95	<200	Pass
	922.8	127.1		
	923.4	126.95		
500	922	504.3	<600	Pass
	922.8	509.65		
	923.4	508.2		

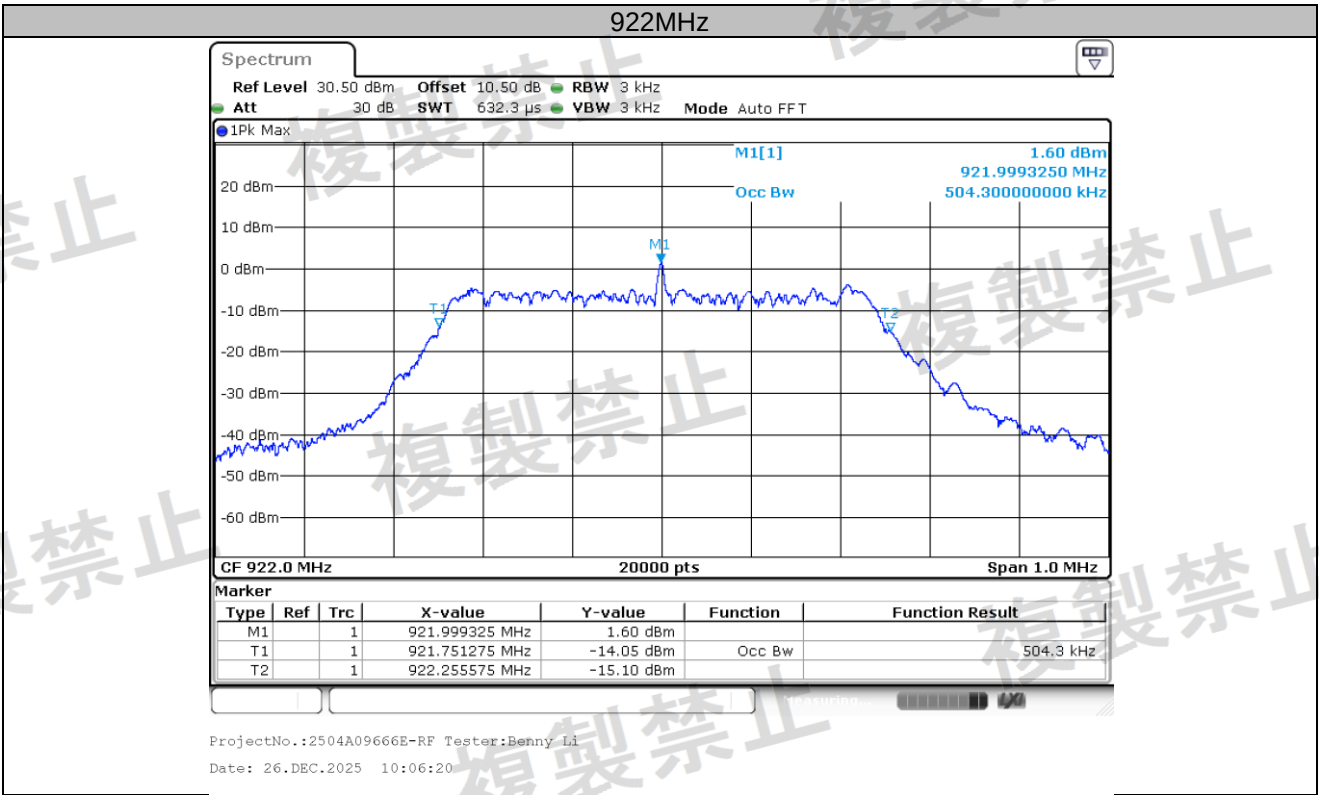
Test Graphs

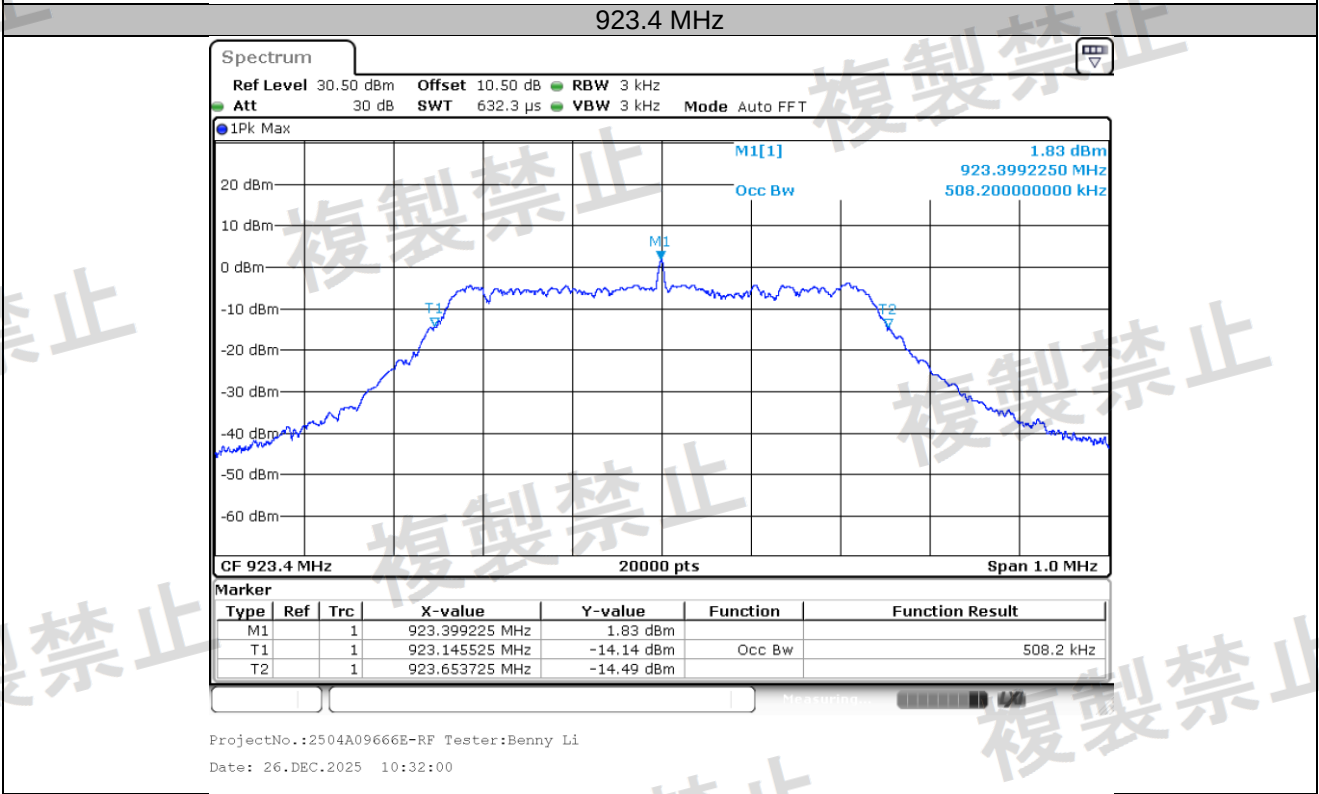
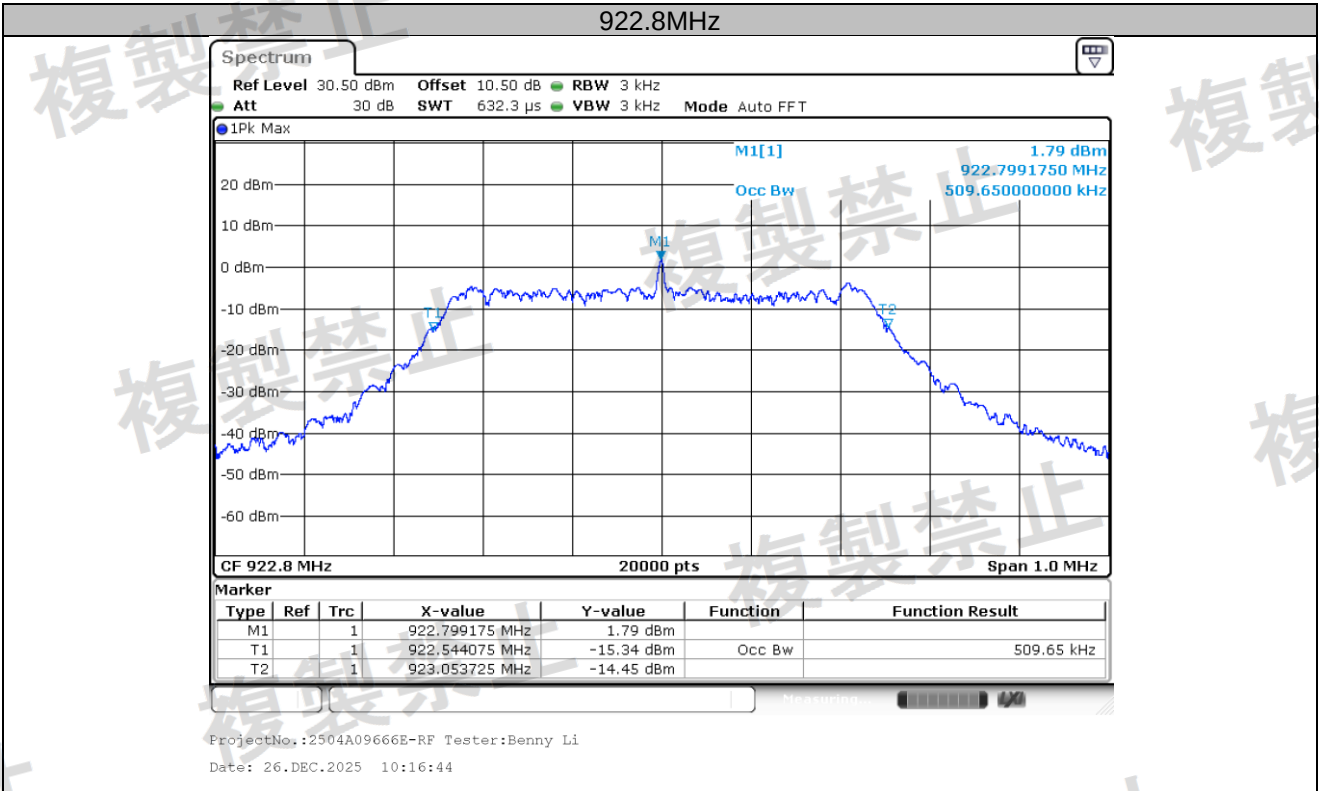
For 125kHz:





For 500kHz:





Appendix D: Transmitter Spurious Emission and Unwanted Emission Intensity

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/25-2025/12/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.4-25.1	Relative Humidity: (%)	46-48	ATM Pressure: (kPa)	100.9
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Test Data Tables

For 125kHz:

Frequency Band	922 MHz	922.8 MHz	923.4 MHz	Limit
Band I	-64.19	-63.69	-63.69	-36dBm/100kHz
Band II	-55.47	-55.34	-55.41	-55dBm/1MHz
Band III	-62.73	-62.28	-61.97	-55dBm/100kHz
Band IV	-37.17	-36.1	-37.31	-36dBm/100kHz
Band V	-37.3	-36.76	-36.26	
Band VI	-63.3	-63.42	-62.96	-55dBm/100kHz
Band VII	-55.1	-54.31	-54.35	-45dBm/1MHz
Band VIII	-34.04	-33.35	-33.5	-30dBm/1MHz

Note:

Band I: 30 MHz~710 MHz, limit is -36 dBm/100kHz

Band II: 710 MHz~900 MHz, limit is -55 dBm/1MHz

Band III: 900 MHz~915 MHz, limit is -55 dBm/100kHz

Band IV: 915 MHz~f MHz, limit is -36 dBm/100kHz(Except 200 + 100 x n kHz from the center frequency of radio channel, n=1)

Band V: f MHz~930MHz, limit is -36 dBm/100kHz(Except 200 + 100 x n kHz from the center frequency of radio channel, n=1)

Band VI: 930 MHz~1000 MHz, limit is -55 dBm/100kHz

Band VII: 1000 MHz~1215 MHz, limit is -45 dBm/1MHz

Band VIII: 1215 MHz~13000 MHz, limit is -30 dBm/1MHz

For 500kHz:

Frequency Band	922 MHz	922.8 MHz	923.4 MHz	Limit
Band I	-64.75	-64.93	-64.43	-36dBm/100kHz
Band II	-55.27	-56.11	-56.27	-55dBm/1MHz
Band III	-61.65	-62.85	-62.56	-55dBm/100kHz
Band IV	-38.33	-39.09	-39.5	-36dBm/100kHz
Band V	-39.35	-42.58	-36.31	
Band VI	-61.95	-62.97	-62.84	-55dBm/100kHz
Band VII	-55.21	-55.35	-55.17	-45dBm/1MHz
Band VIII	-32.21	-32.57	-32.71	-30dBm/1MHz

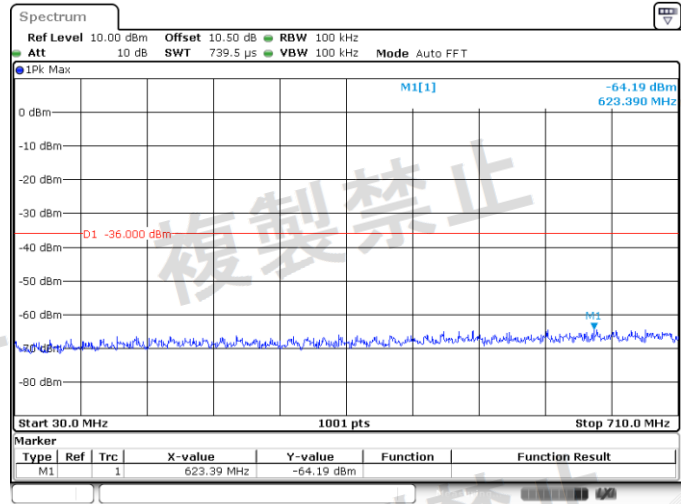
Note:

Band I: 30 MHz~710 MHz, limit is -36 dBm/100kHz
Band II: 710 MHz~900 MHz, limit is -55 dBm/1MHz
Band III: 900 MHz~915 MHz, limit is -55 dBm/100kHz
Band IV: 915 MHz~f MHz, limit is -36 dBm/100kHz(Except 200 + 100 x n kHz from the center frequency of radio channel, n=3)
Band V: f MHz~930MHz, limit is -36 dBm/100kHz(Except 200 + 100 x n kHz from the center frequency of radio channel, n=3)
Band VI: 930 MHz~1000 MHz, limit is -55 dBm/100kHz
Band VII: 1000 MHz~1215 MHz, limit is -45 dBm/1MHz
Band VIII: 1215 MHz~13000 MHz, limit is -30 dBm/1MHz

Test Graphs

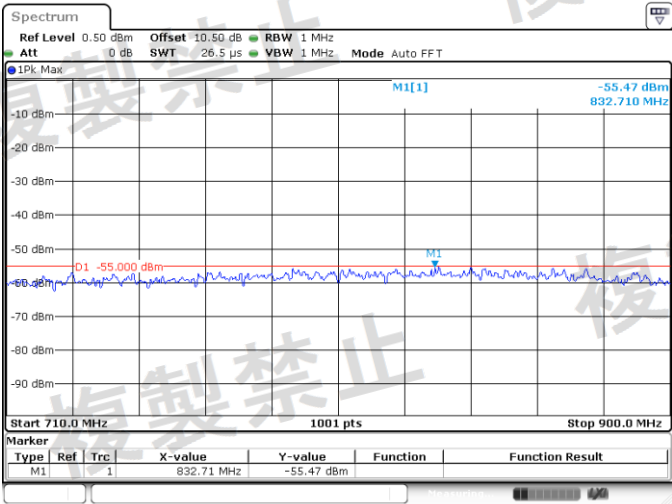
For 125kHz:

922MHz-CSE-30MHz-710MHz



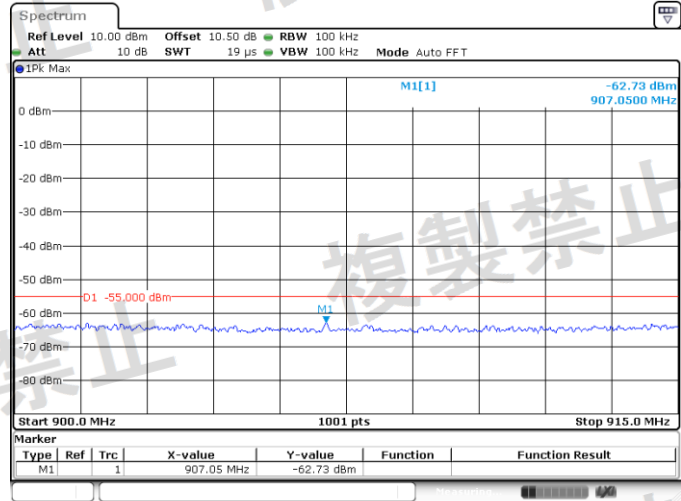
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 25.DEC.2025 18:10:01

922MHz-CSE-710MHz-900MHz



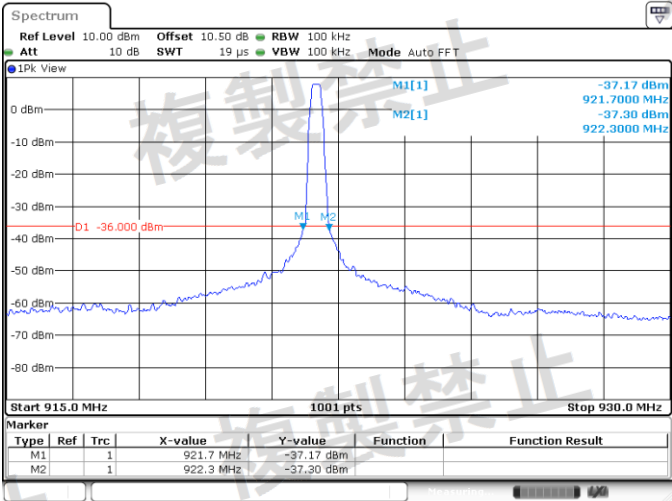
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 15:34:48

922MHz-CSE-900MHz-915MHz

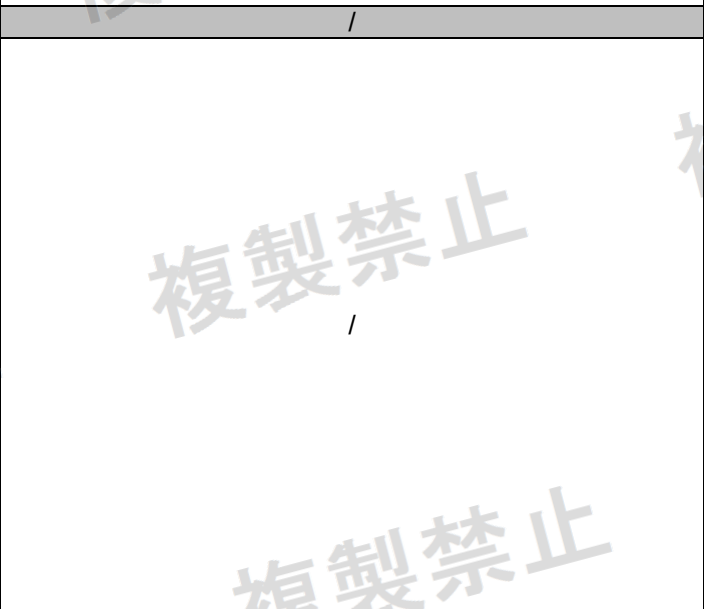
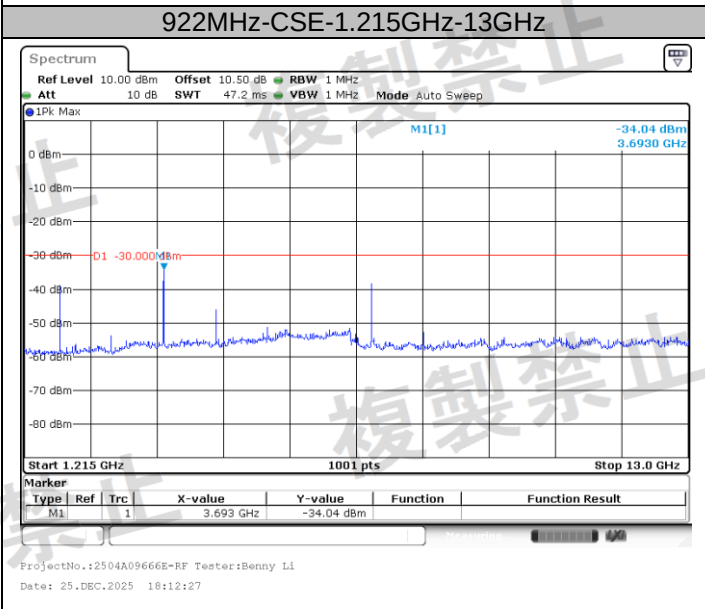
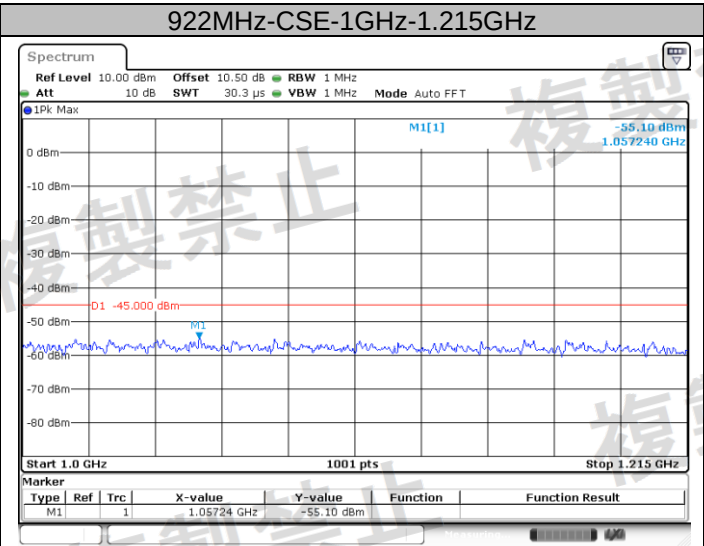
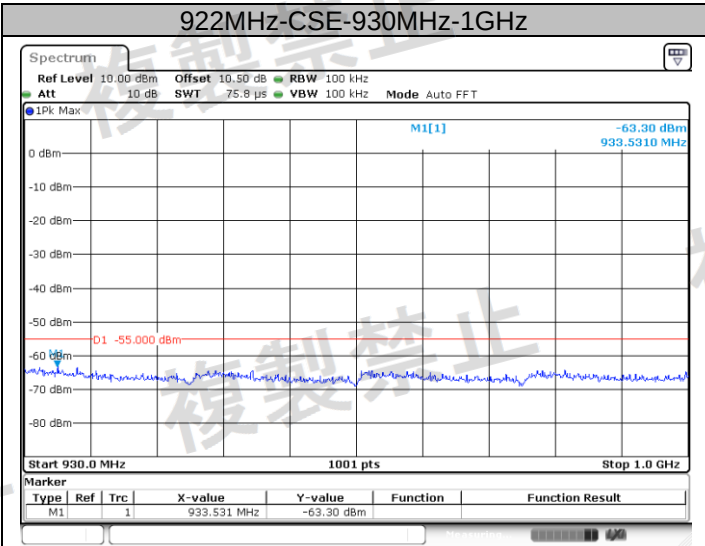


ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 25.DEC.2025 18:10:57

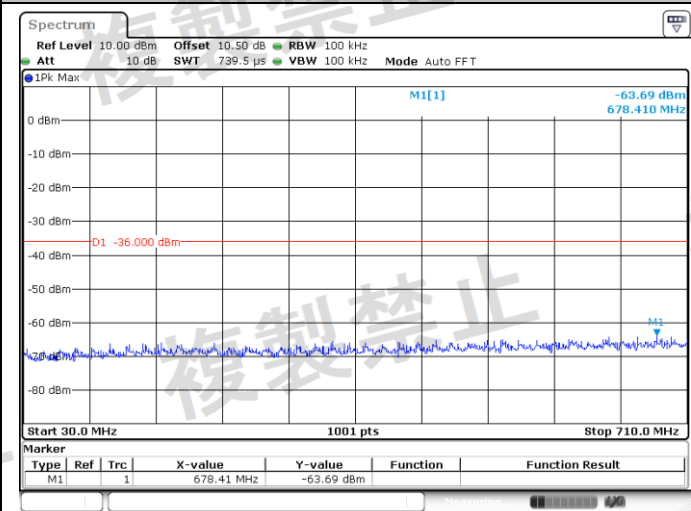
922MHz-CSE-915MHz-930MHz



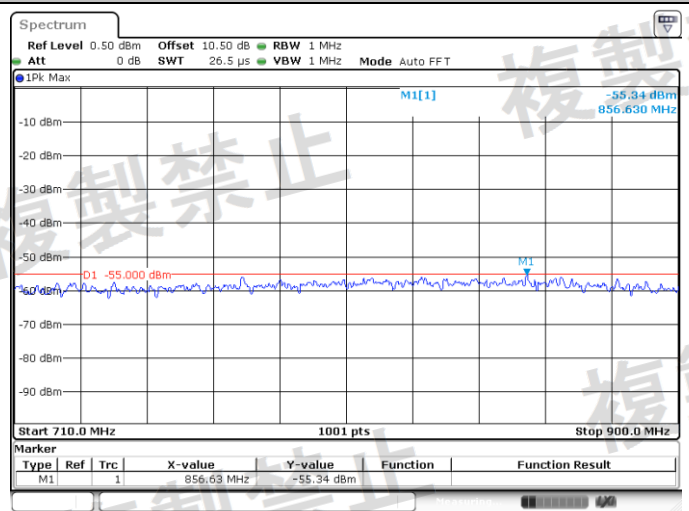
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 25.DEC.2025 19:23:34



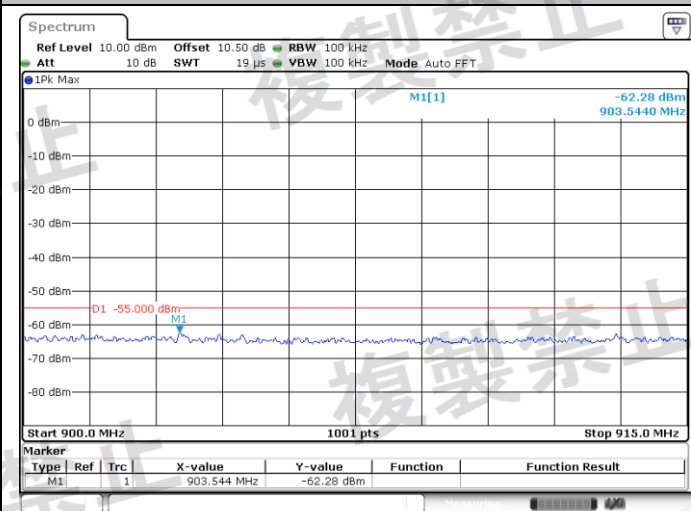
922.8MHz-CSE-30MHz-710MHz



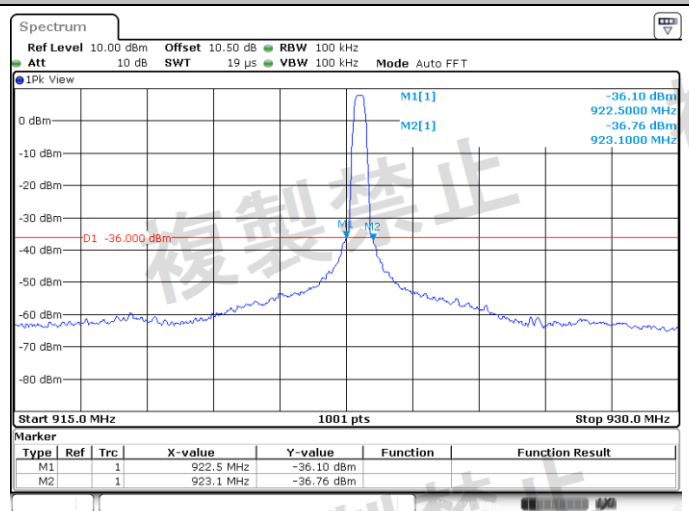
922.8MHz-CSE-710MHz-900MHz



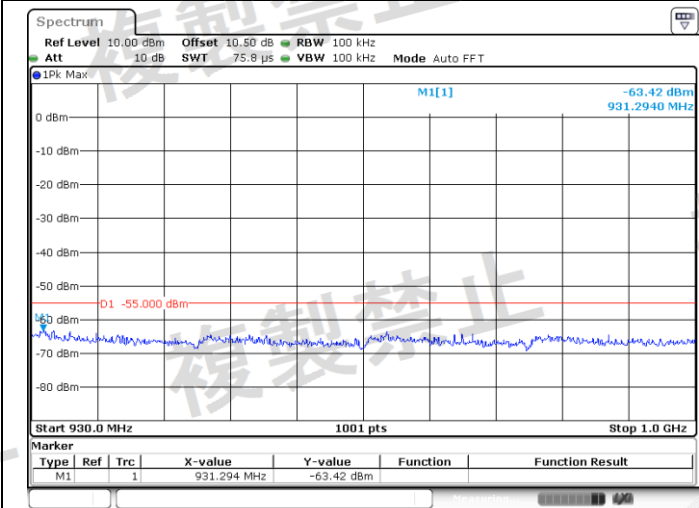
922.8MHz-CSE-900MHz-915MHz



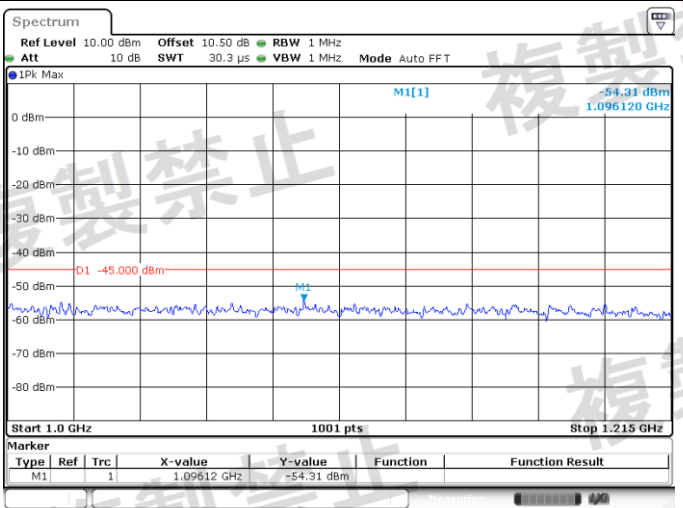
922.8MHz-CSE-915MHz-930MHz



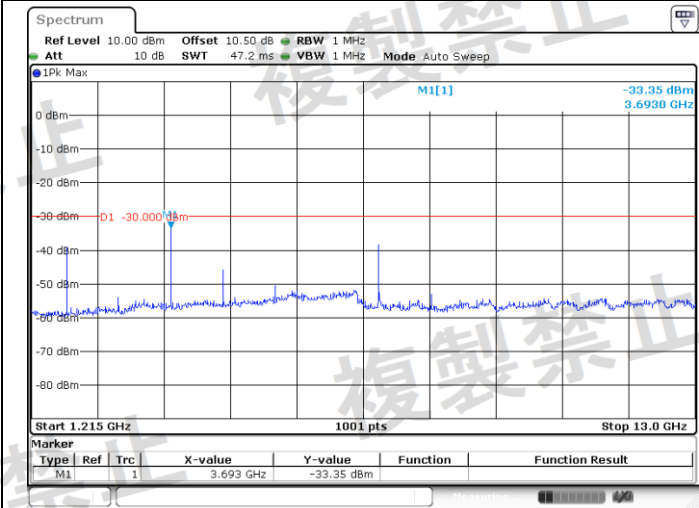
922.8MHz-CSE-930MHz-1GHz



922.8MHz-CSE-1GHz-1.215GHz

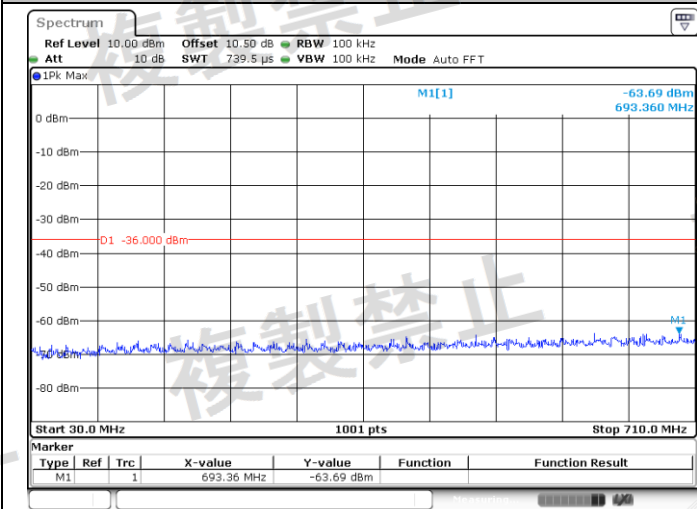


922.8MHz-CSE-1.215GHz-13GHz



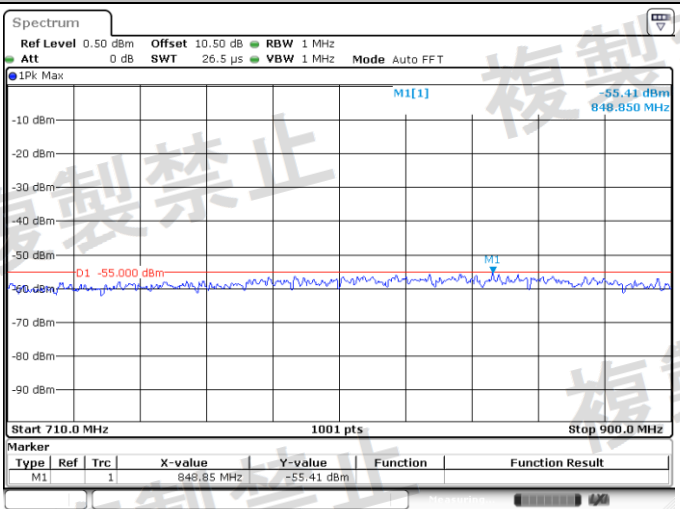
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923.4MHz-CSE-30MHz-710MHz



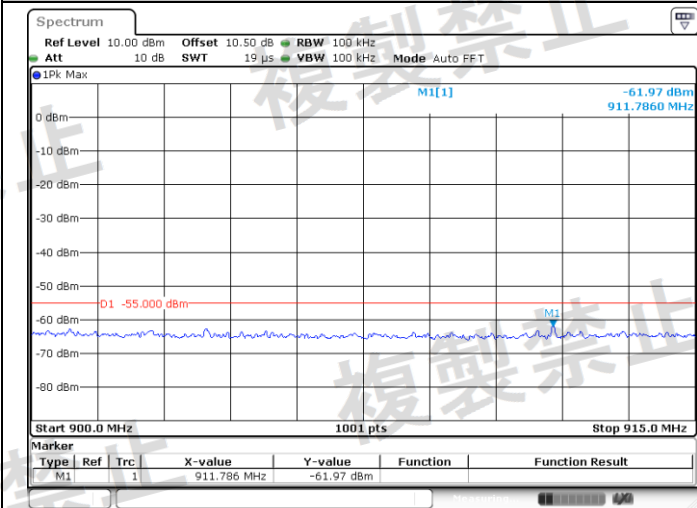
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Date: 25.DEC.2025 19:02:19

923.4MHz-CSE-710MHz-900MHz



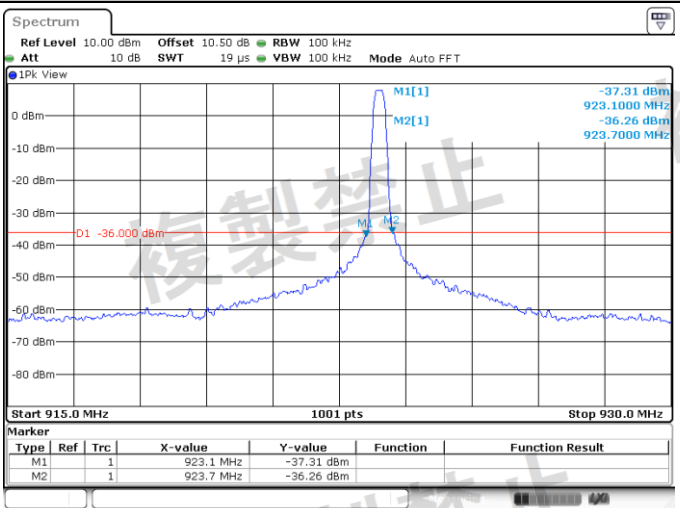
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 25.DEC.2025 19:10:31

923.4MHz-CSE-900MHz-915MHz

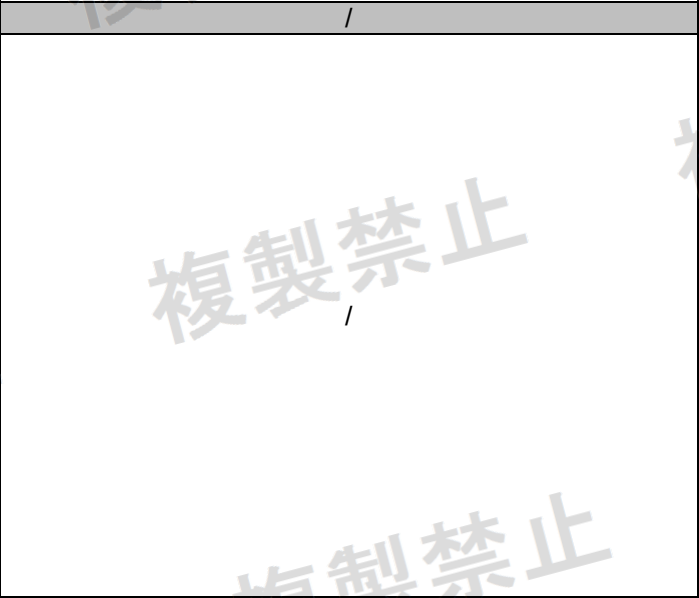
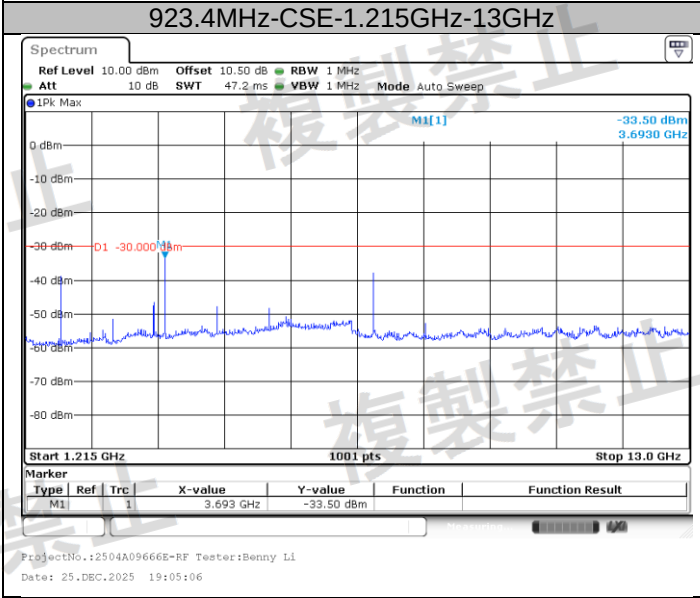
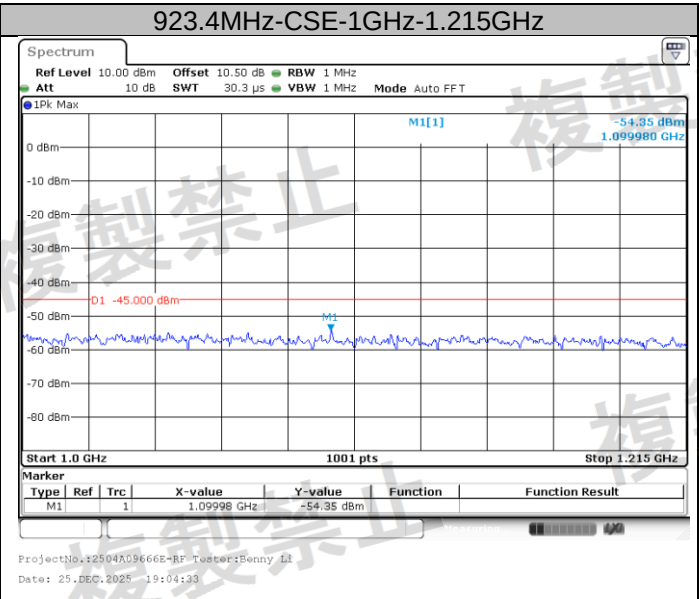
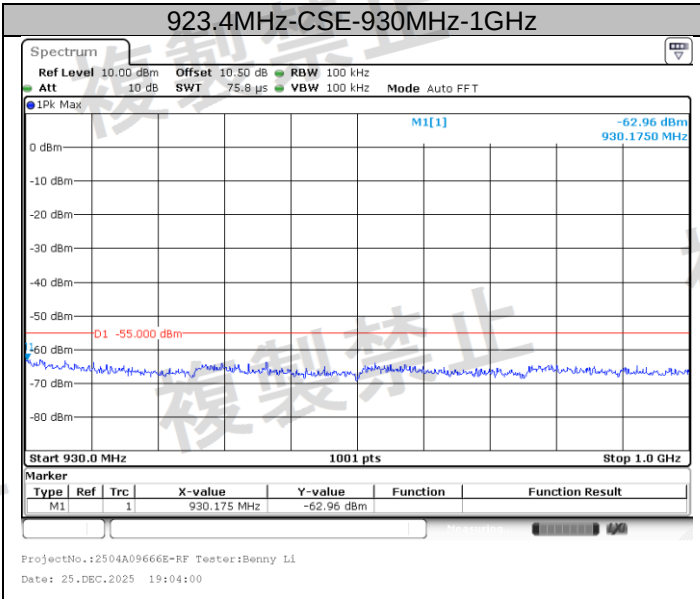


ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 25.DEC.2025 19:03:05

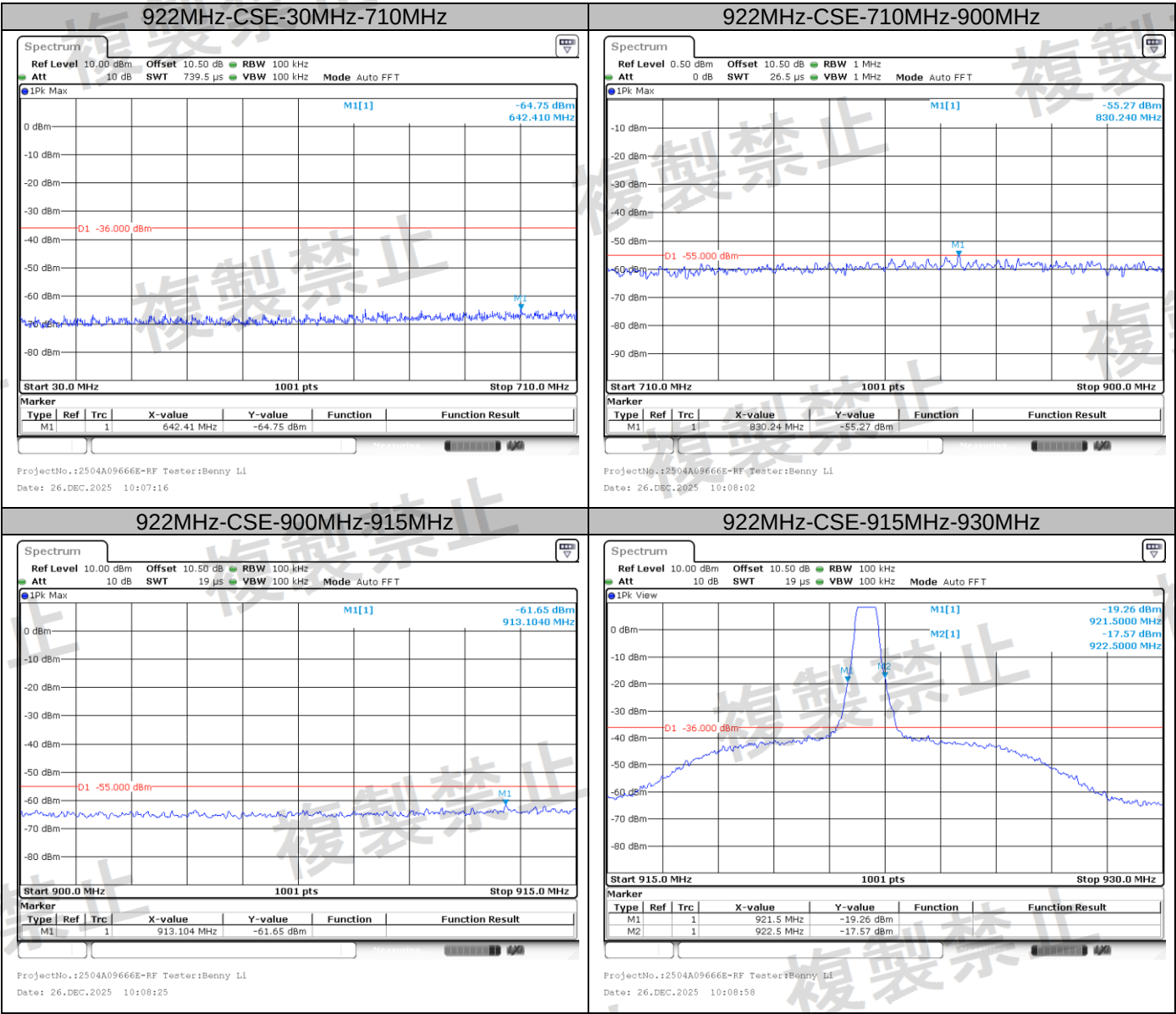
923.4MHz-CSE-915MHz-930MHz



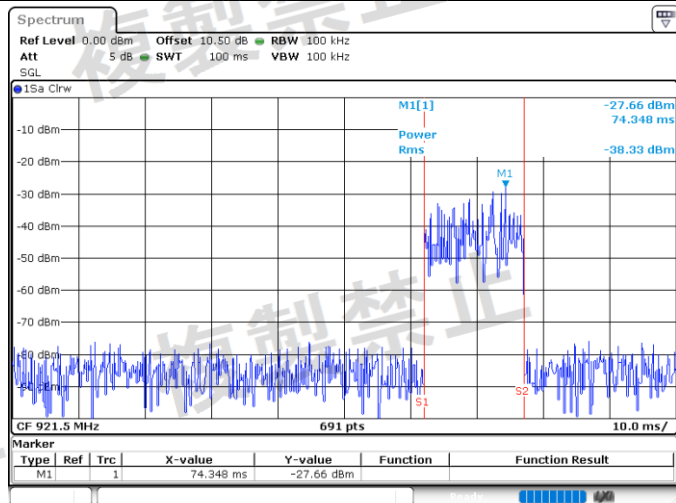
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 25.DEC.2025 19:18:16



For 500kHz:

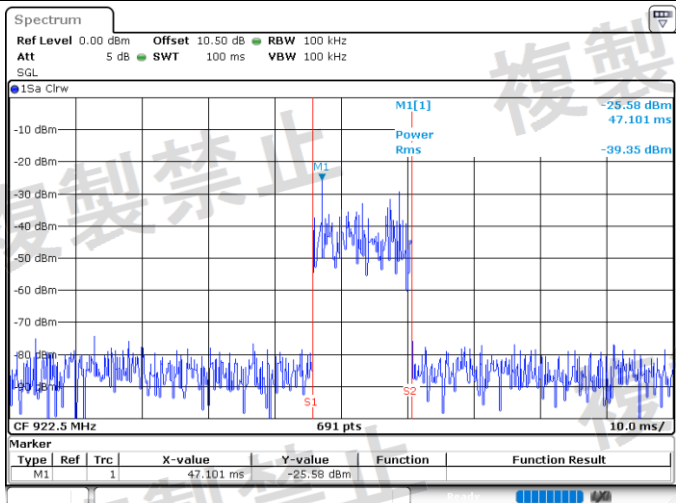


922MHz-CSE-915MHz-930MHz-1



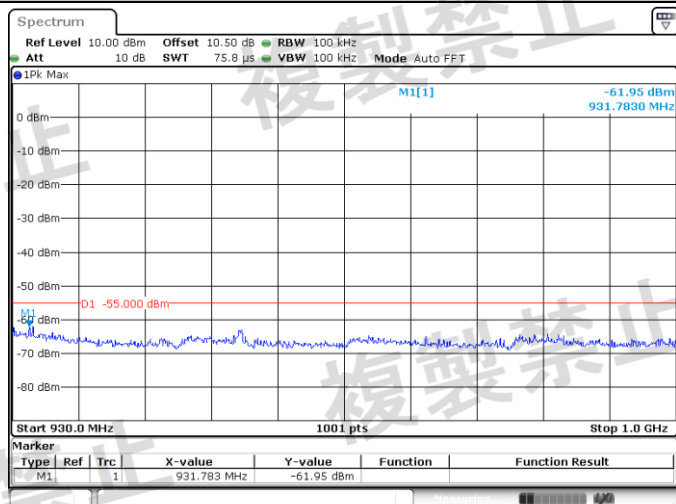
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 11:56:53

922MHz-CSE-915MHz-930MHz-2



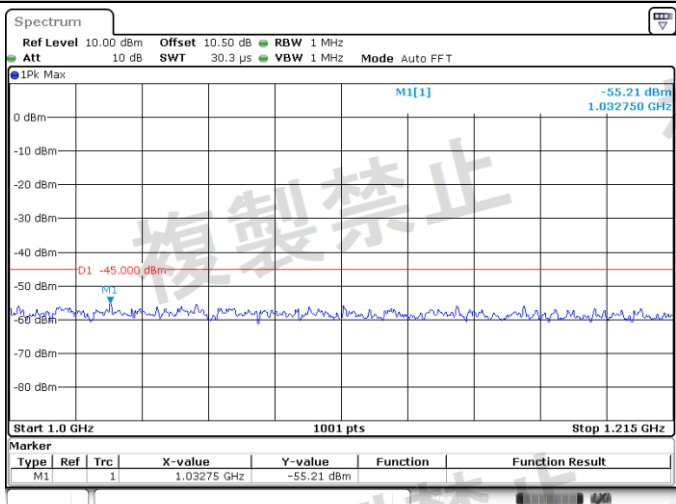
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 11:57:45

922MHz-CSE-930MHz-1GHz



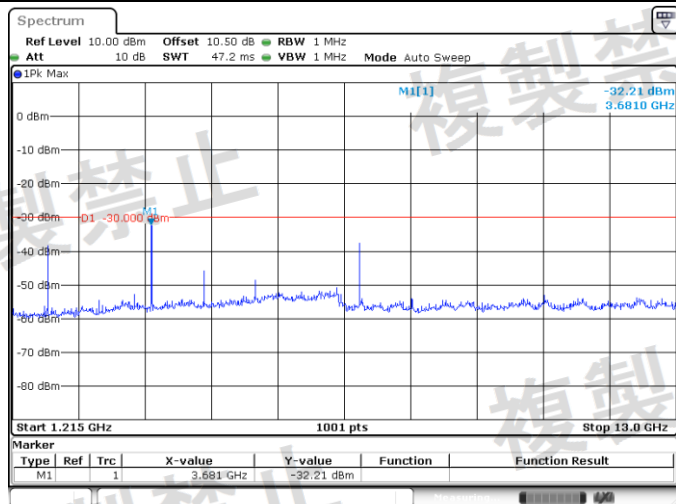
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 10:09:31

922MHz-CSE-1GHz-1.215GHz



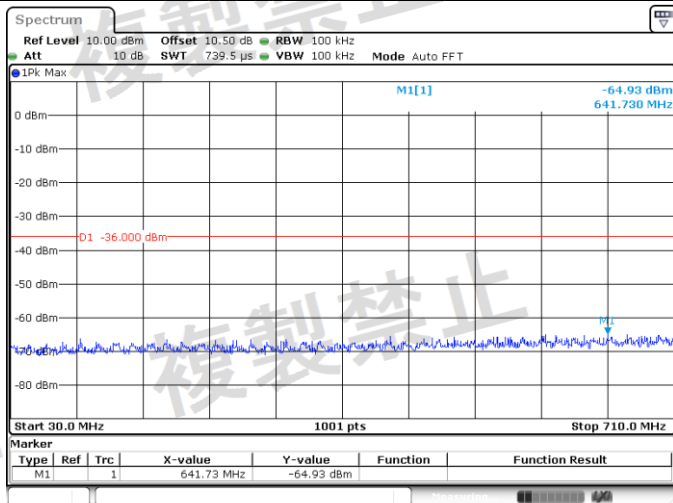
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 10:10:03

922MHz-CSE-1.215GHz-13GHz

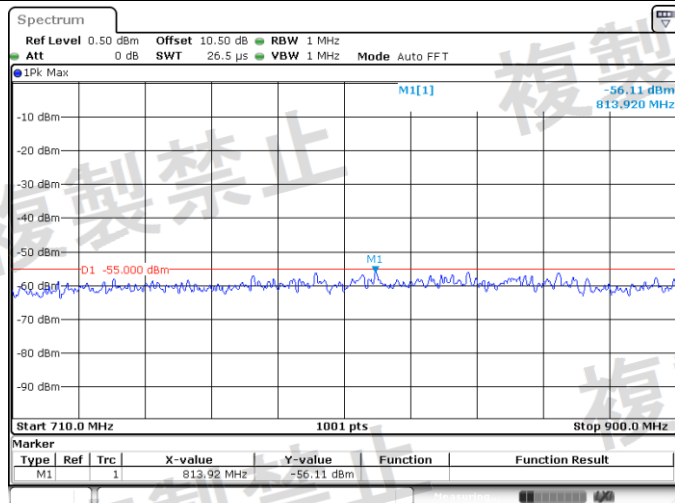


ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 10:10:26

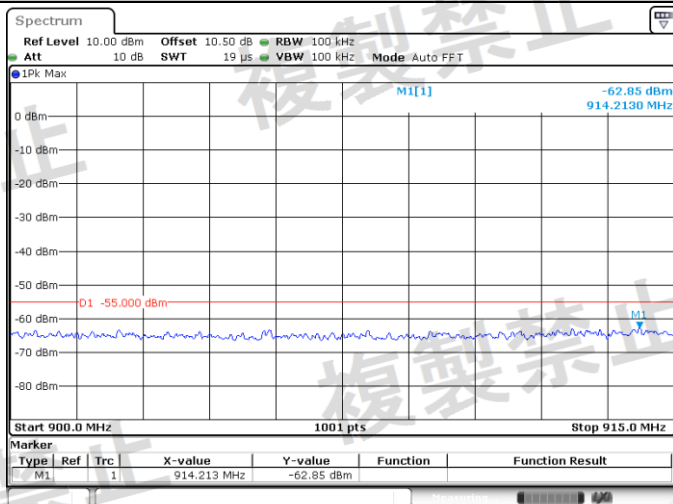
922.8MHz-CSE-30MHz-710MHz



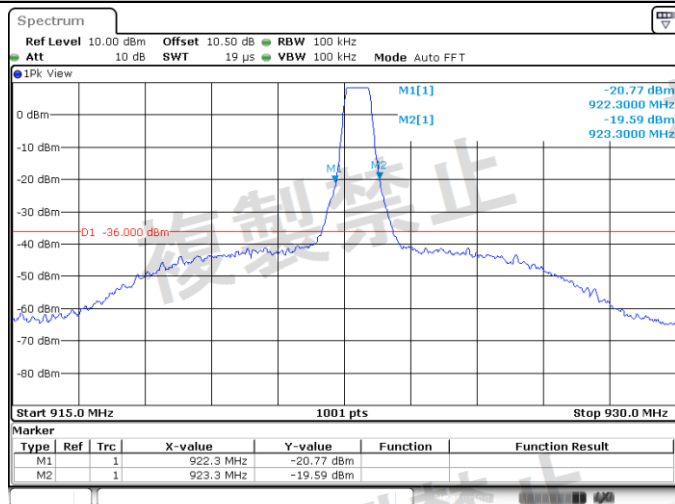
922.8MHz-CSE-710MHz-900MHz



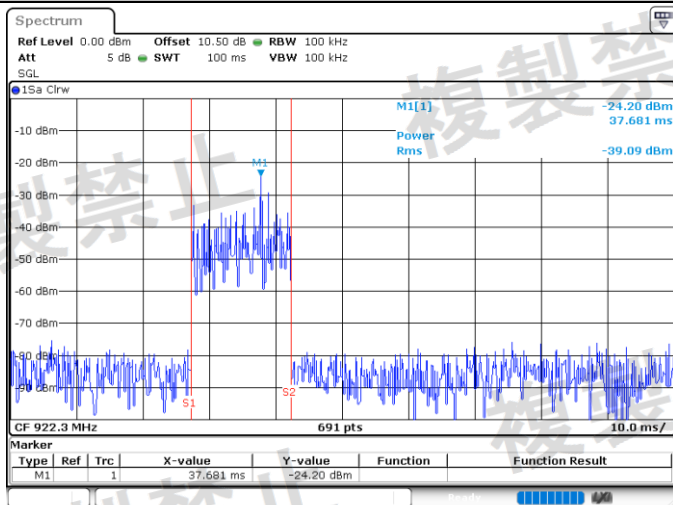
922.8MHz-CSE-900MHz-915MHz



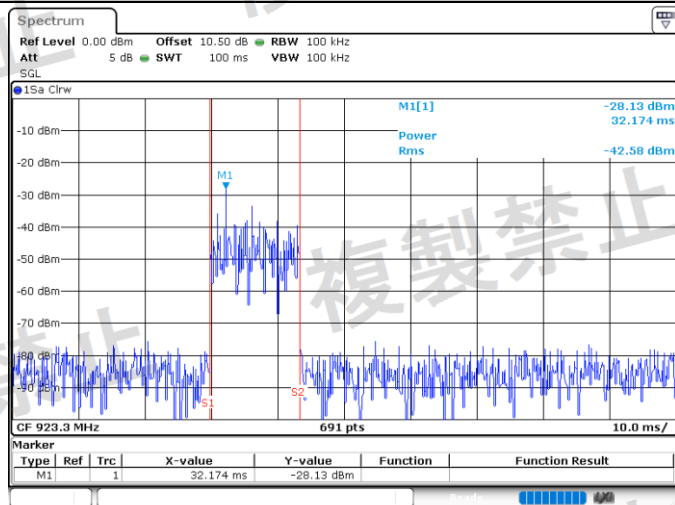
922.8MHz-CSE-915MHz-930MHz

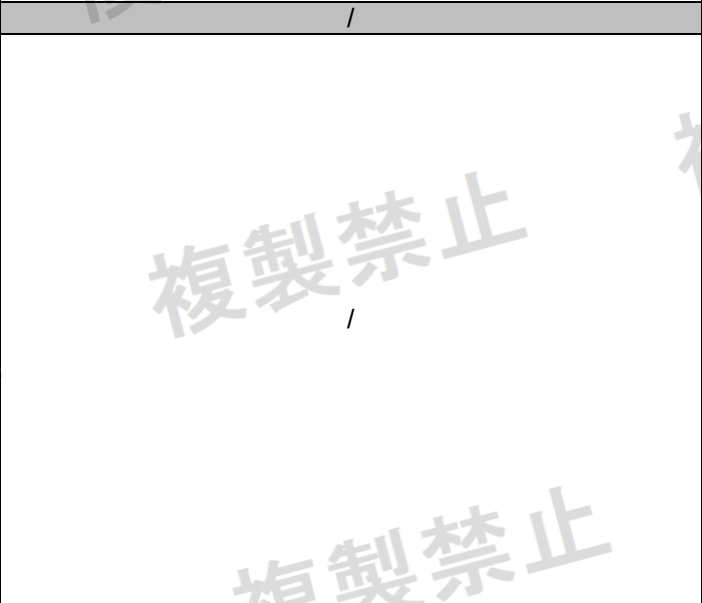
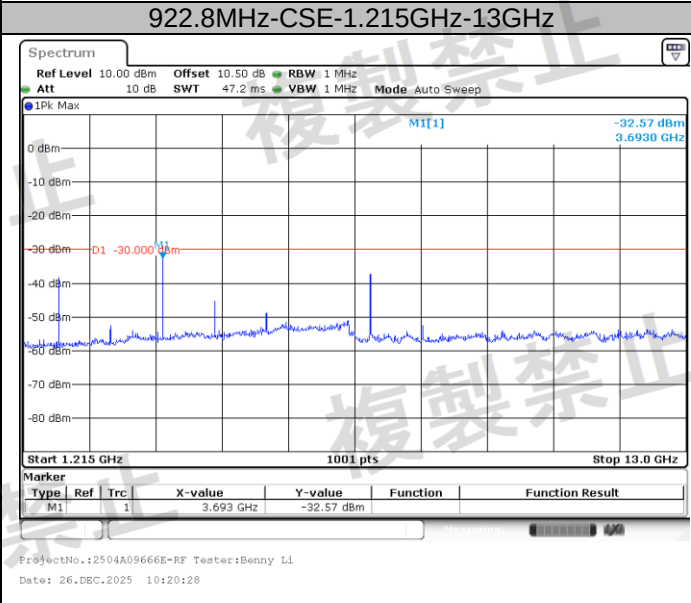
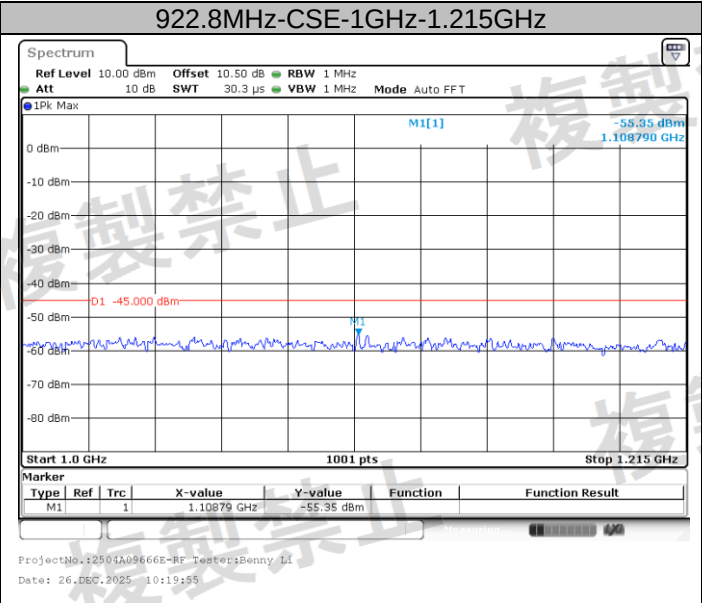
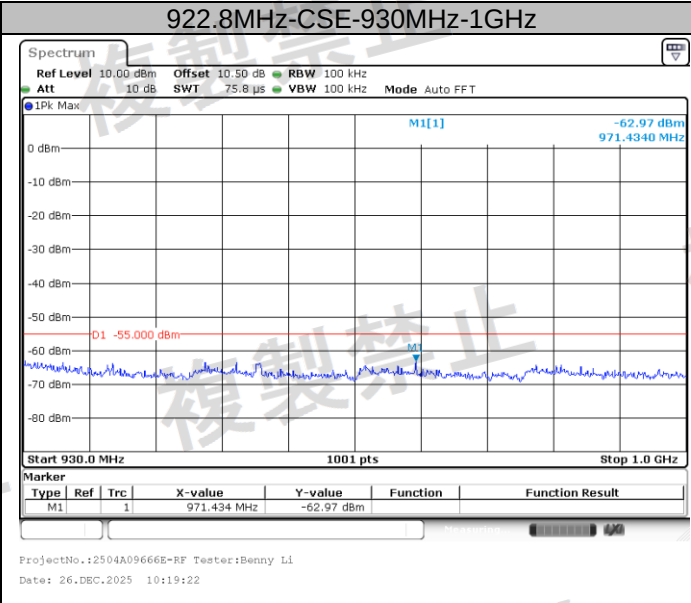


922.8MHz-CSE-915MHz-930MHz-1

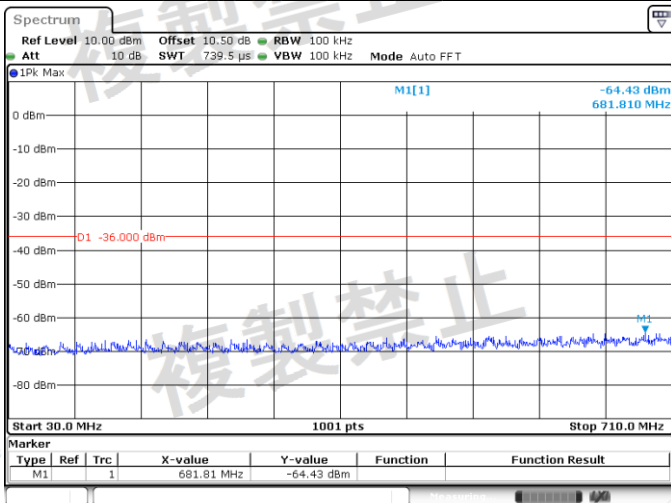


922.8MHz-CSE-915MHz-930MHz-2

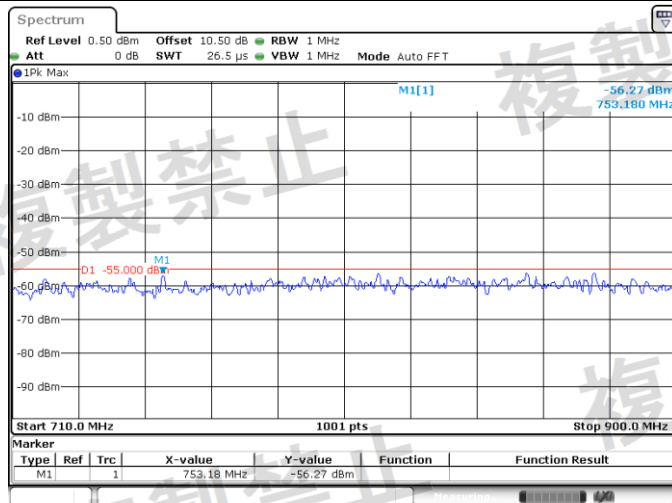




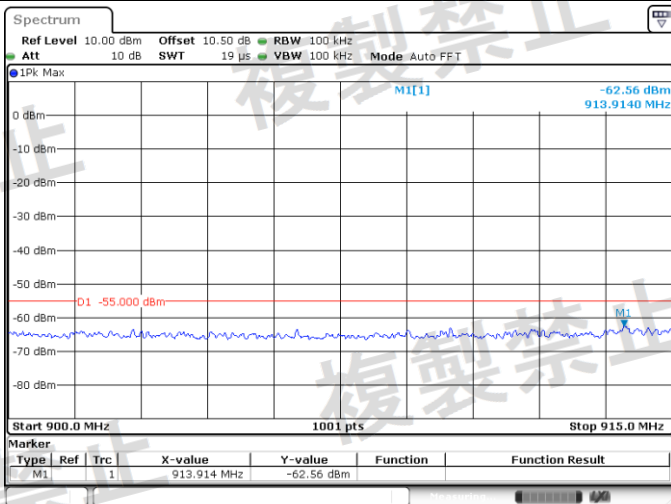
923.4MHz-CSE-30MHz-710MHz



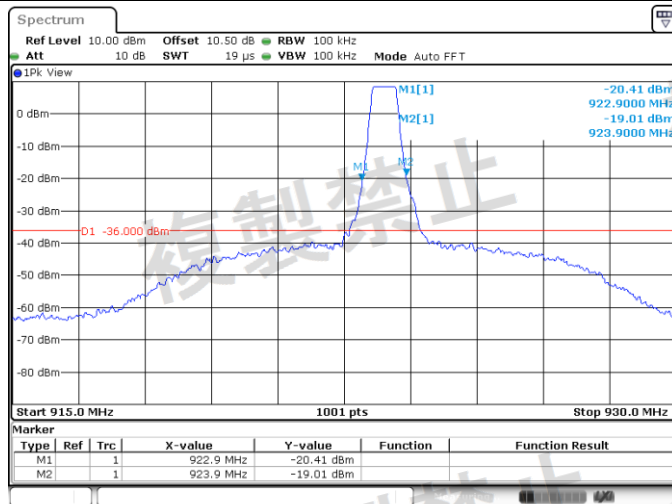
923.4MHz-CSE-710MHz-900MHz



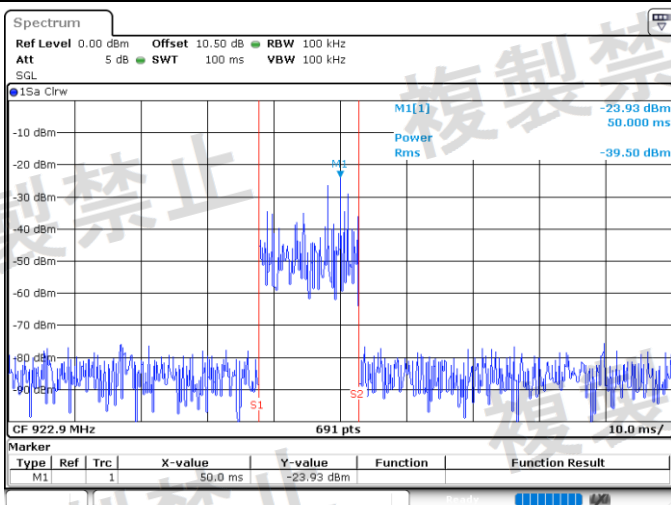
923.4MHz-CSE-900MHz-915MHz



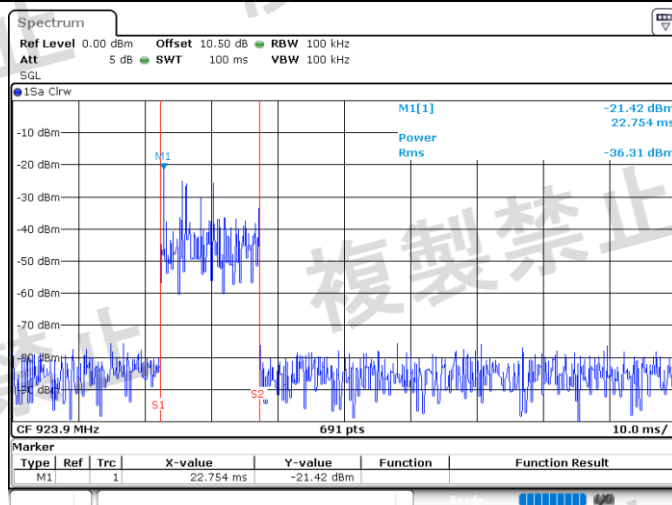
923.4MHz-CSE-915MHz-930MHz



923.4MHz-CSE-915MHz-930MHz-1

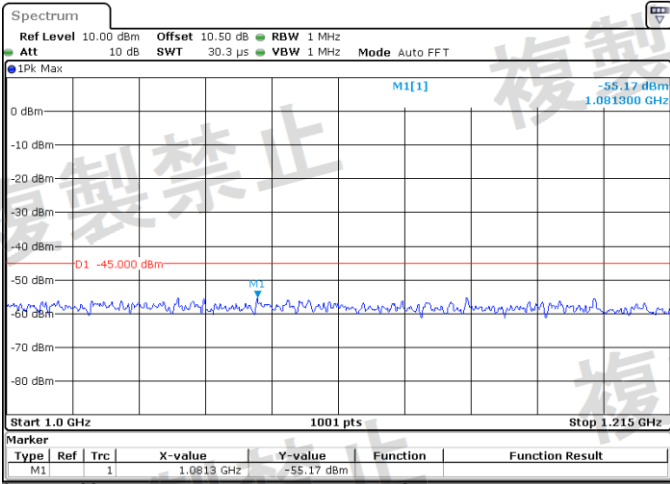
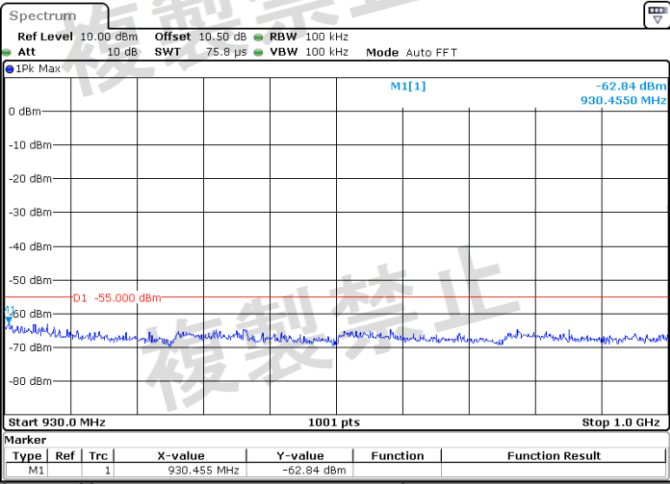


923.4MHz-CSE-915MHz-930MHz-2



923.4MHz-CSE-930MHz-1GHz

923.4MHz-CSE-1GHz-1.215GHz

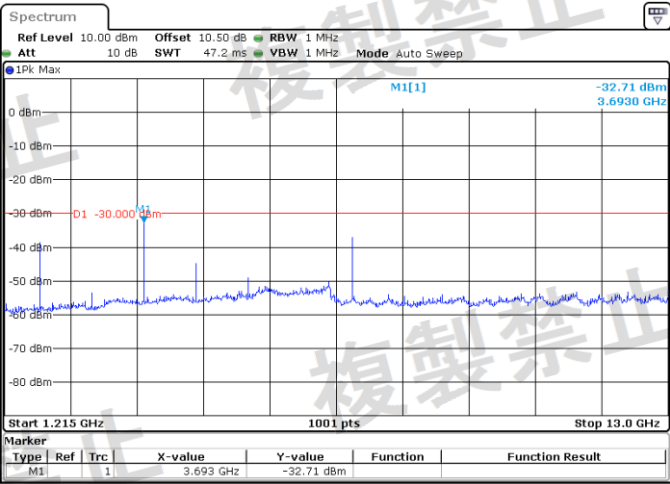


ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 10:34:35

ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 10:35:08

923.4MHz-CSE-1.215GHz-13GHz

/



ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 10:35:41

Appendix E: Adjacent Channel Leakage Power

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/25- 2026/02/06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

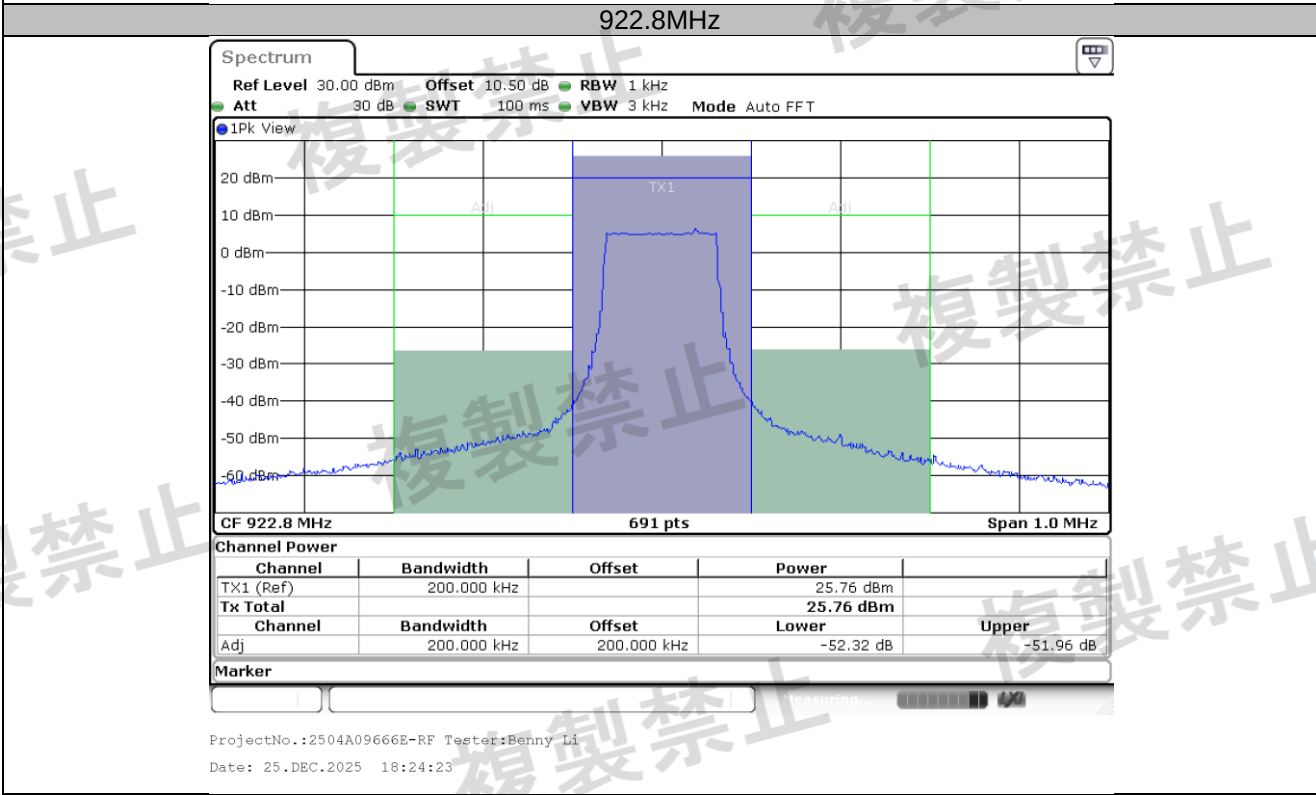
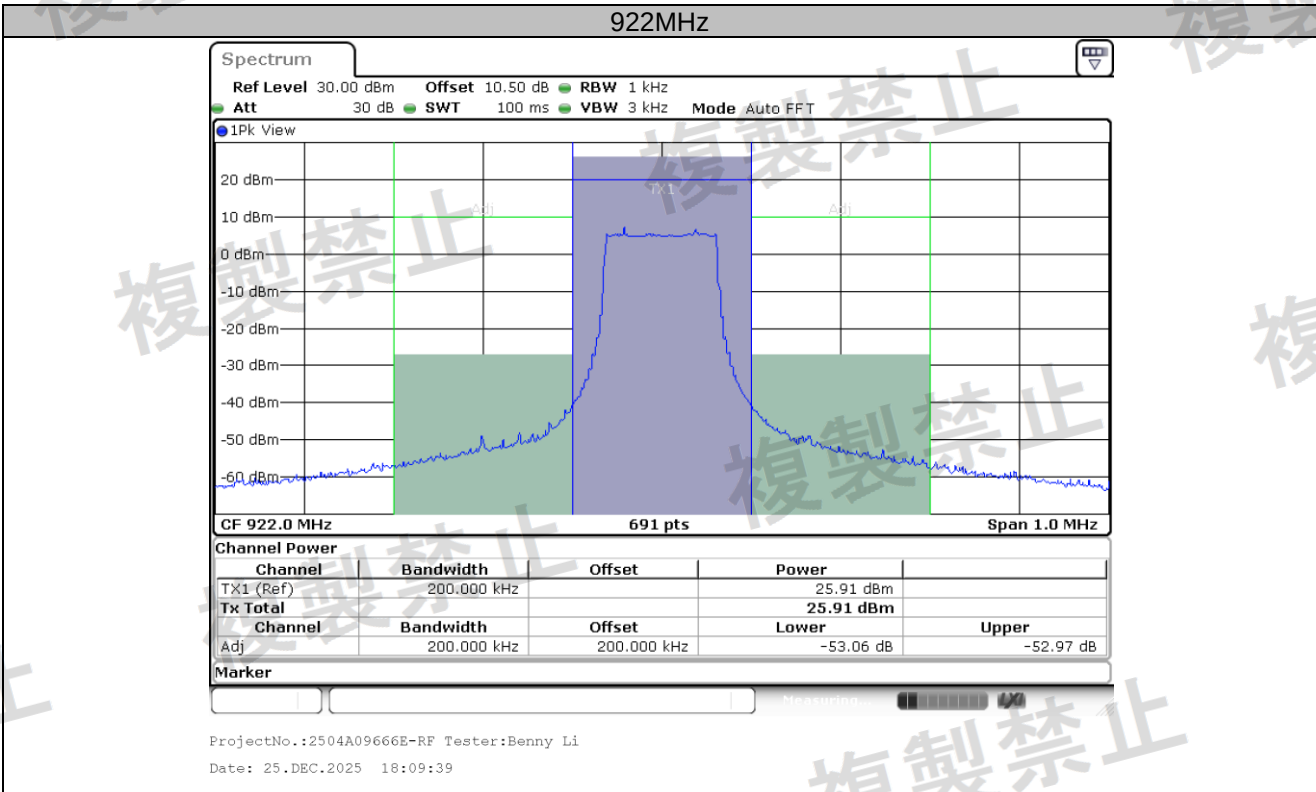
Temperature: (°C)	24.4-25.4	Relative Humidity: (%)	42-51	ATM Pressure: (kPa)	100.9-101.9
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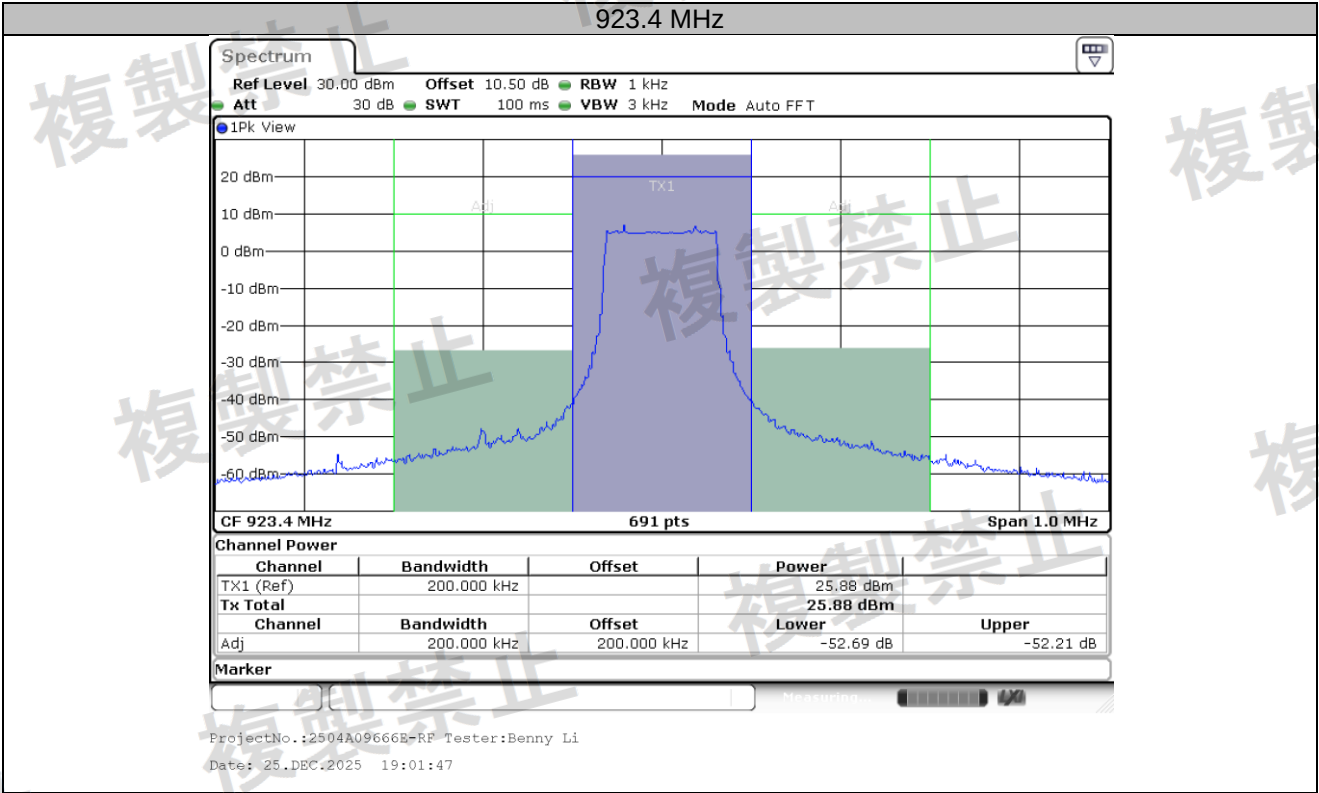
Test Data Table

Nominal Bandwidth (kHz)	Frequency (MHz)	Adjacent Channel	Adjacent Channel (dBm)	Limit (dBm)
125	922	Lower	-27.15	-15
		Upper	-27.06	
	922.8	Lower	-26.56	
		Upper	-26.20	
	923.4	Lower	-26.81	
		Upper	-26.33	
500	922	Lower	-19.72	
		Upper	-16.63	
	922.8	Lower	-17.48	
		Upper	-17.27	
	923.4	Lower	-17.80	
		Upper	-16.61	

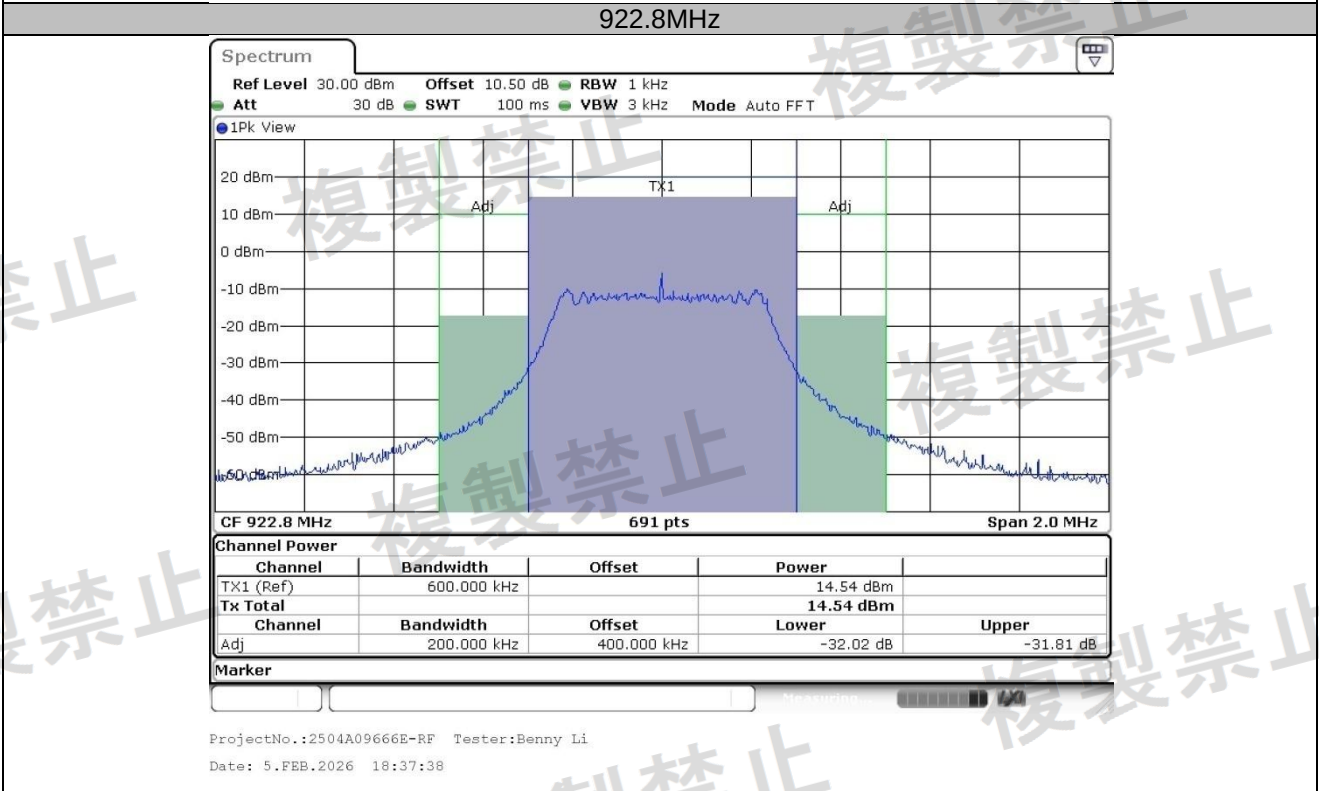
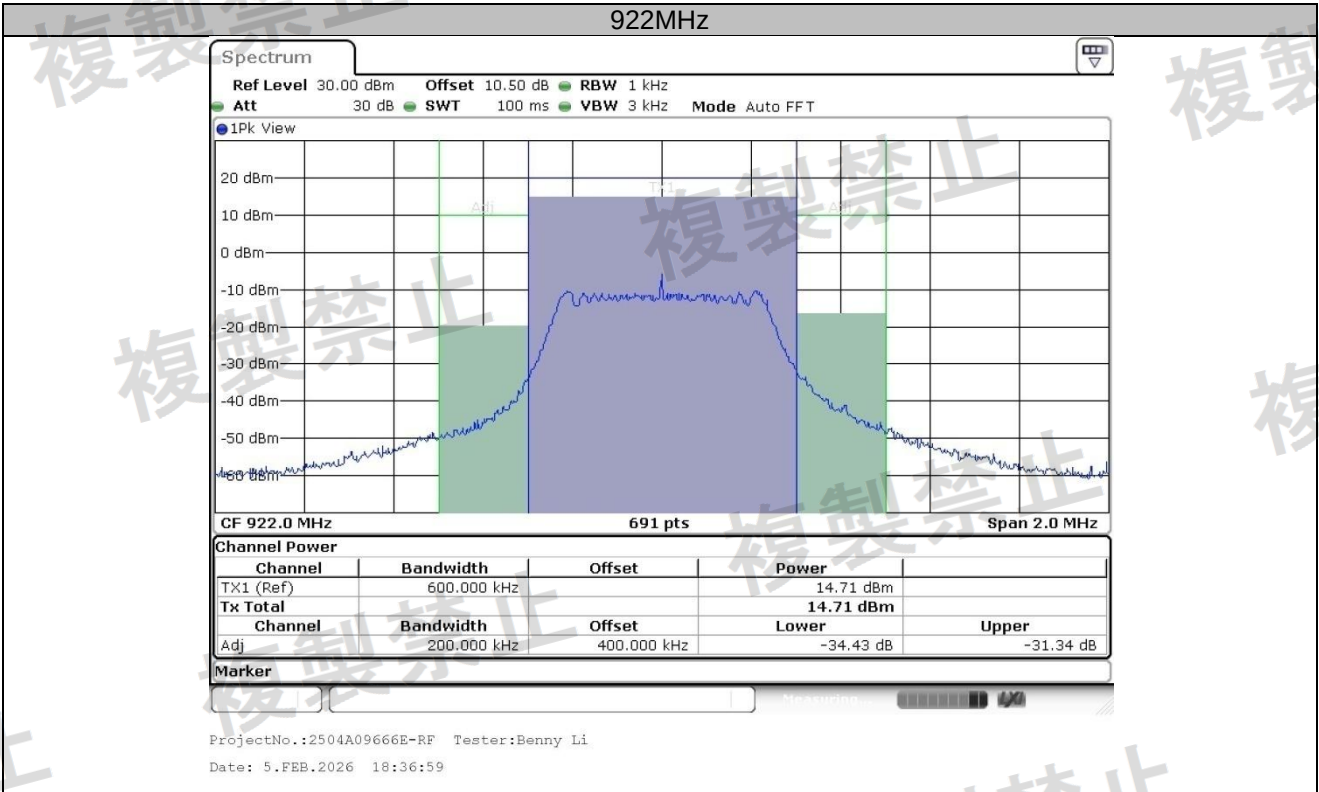
Test Graphs

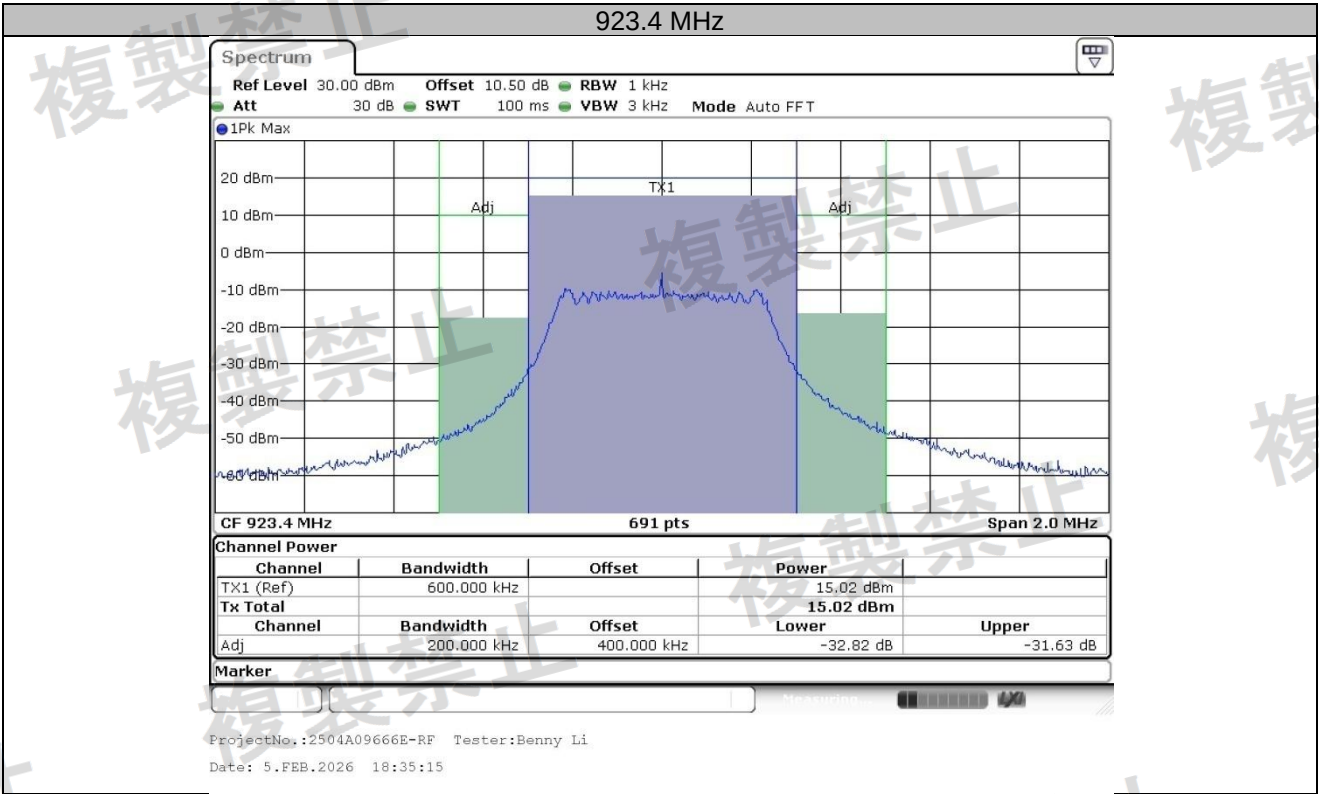
For 125kHz:





For 500kHz:





Appendix F: Secondary Radiated Emission Strength

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/26
Test Site:	RF	Test Mode:	Receiving
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	48	ATM Pressure: (kPa)	100.9
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Test Data Tables

For 125kHz:

Frequency Band	Low Channel	Middle Channel	High Channel	Limit
Band I	-72.79	-72.65	-72.99	-54dBm/100kHz
Band II	-63.33	-63.09	-63.40	-55dBm/1MHz
Band III	-71.87	-72.33	-72.32	-55dBm/100KHz
Band IV	-72.11	-72.03	-72.19	-54dBm/100KHz
Band V	-72.07	-71.59	-71.54	-55dBm/100KHz
Band VI	-57.88	-60.60	-59.59	-47dBm/1MHz

For 500kHz:

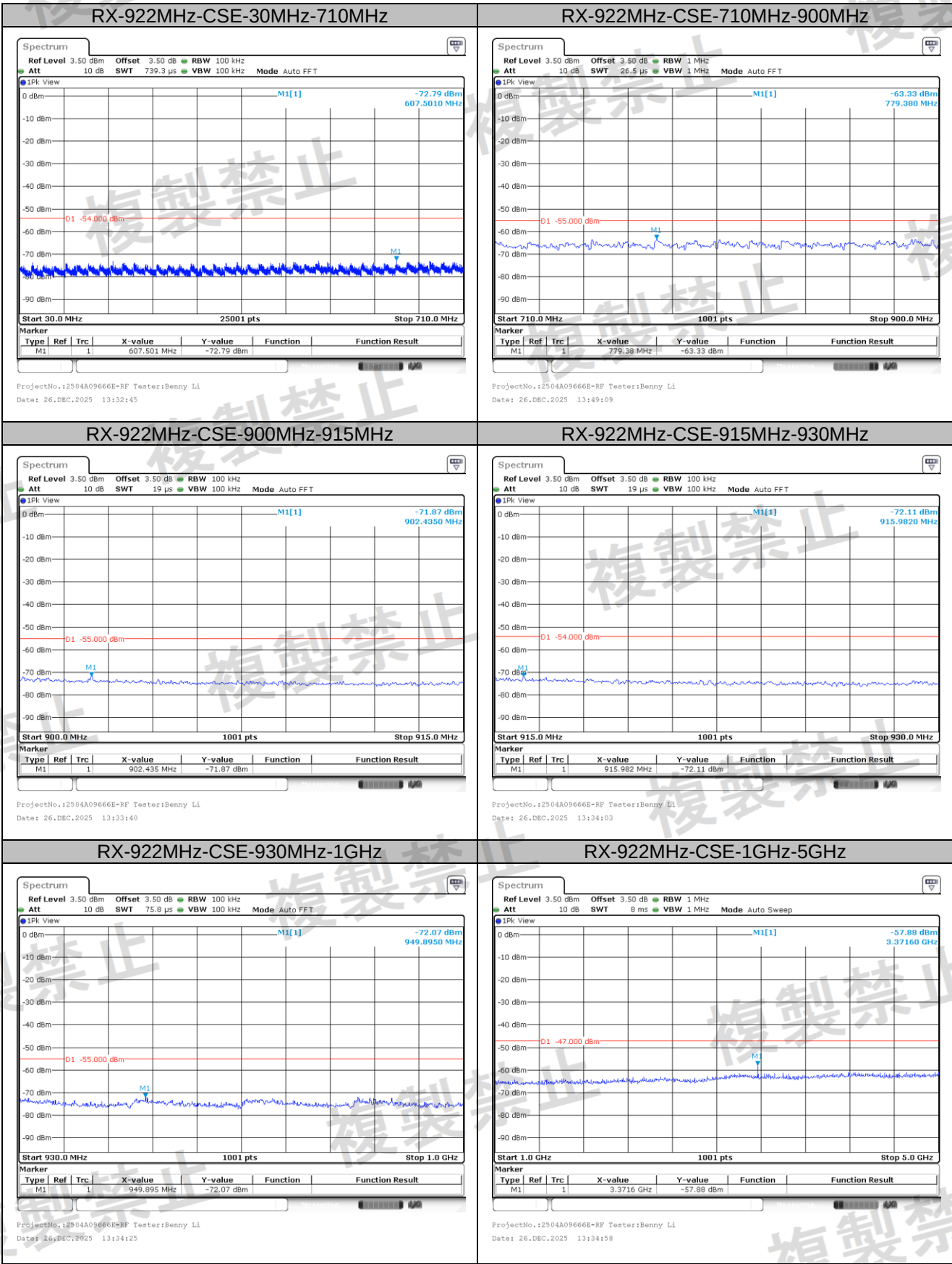
Frequency Band	Low Channel	Middle Channel	High Channel	Limit
Band I	-72.50	-72.48	-73.02	-54dBm/100kHz
Band II	-63.25	-60.59	-62.84	-55dBm/1MHz
Band III	-70.74	-72.16	-72.67	-55dBm/100KHz
Band IV	-72.10	-71.75	-71.78	-54dBm/100KHz
Band V	-72.15	-71.71	-71.93	-55dBm/100KHz
Band VI	-60.34	-53.24	-61.20	-47dBm/1MHz

Note:

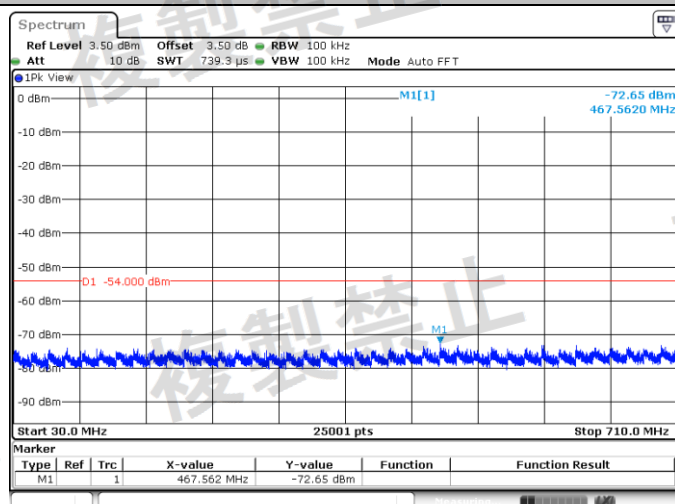
Band I: 30MHz-710MHz, Limit is -54 dBm/100kHz
Band II: 710MHz-900MHz, Limit is -55 dBm/1MHz
Band III: 900MHz-915MHz, Limit is -55 dBm/100kHz
Band IV: 915MHz-930MHz, Limit is -54 dBm/100kHz
Band V: 930MHz- 1000MHz, Limit is -55 dBm/100kHz
Band VI: 1000MHz-5000MHz, Limit is -47 dBm/1MHz

Test Graphs

For 125kHz:

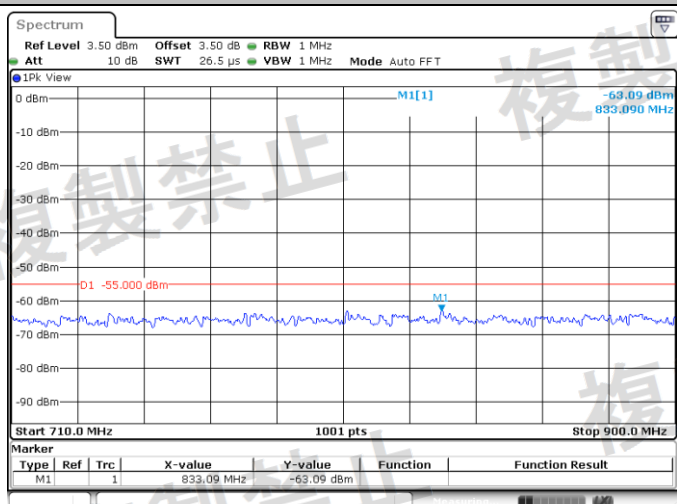


RX-922.8MHz-CSE-30MHz-710MHz



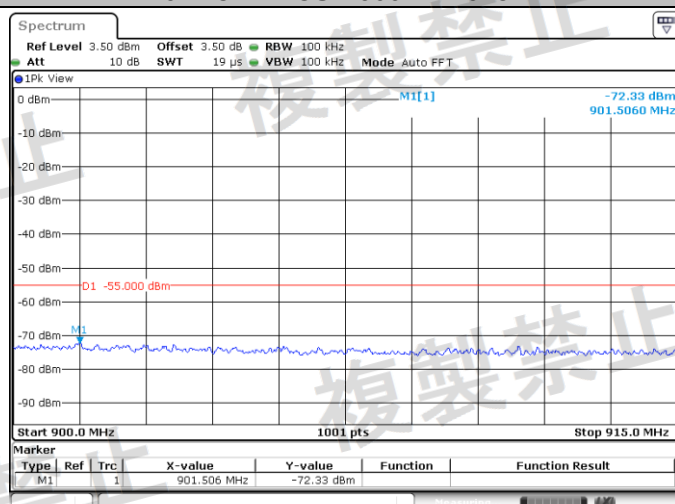
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:36:04

RX-922.8MHz-CSE-710MHz-900MHz



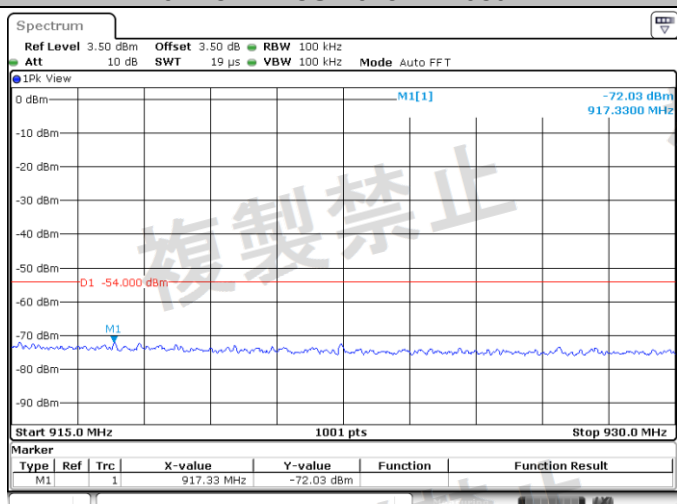
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:36:47

RX-922.8MHz-CSE-900MHz-915MHz



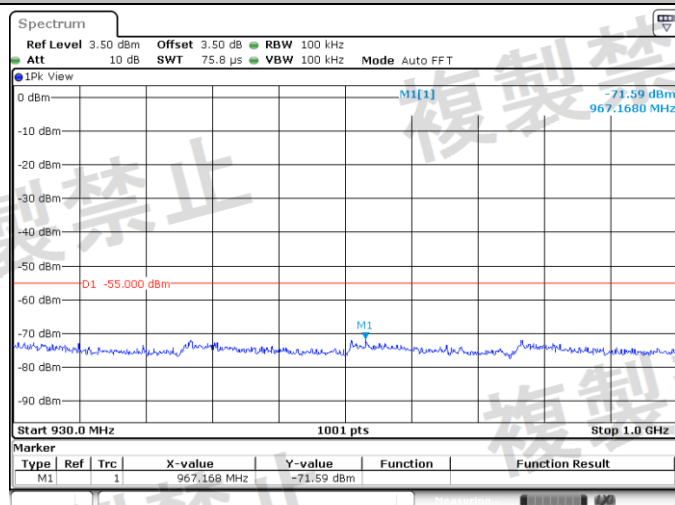
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:37:10

RX-922.8MHz-CSE-915MHz-930MHz



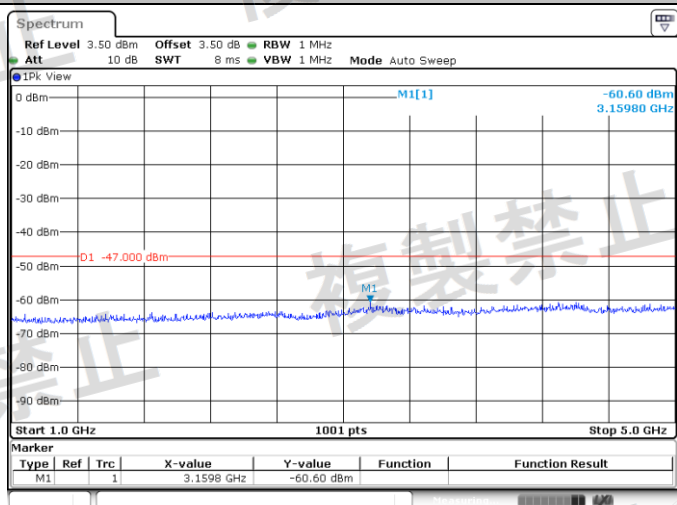
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:37:32

RX-922.8MHz-CSE-930MHz-1GHz



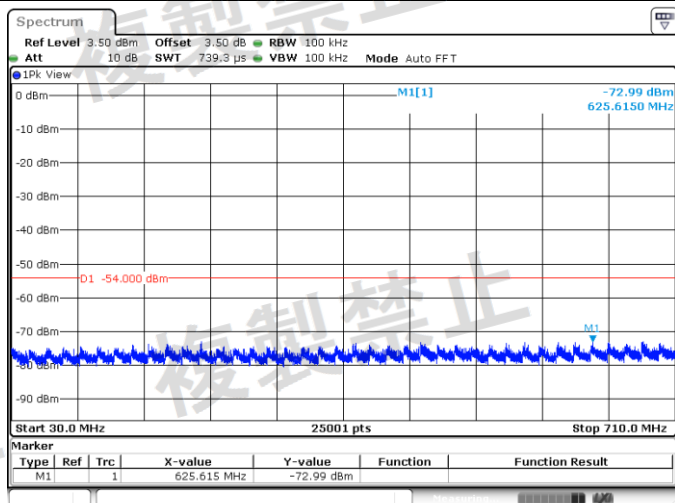
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:37:55

RX-922.8MHz-CSE-1GHz-5GHz



ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:38:17

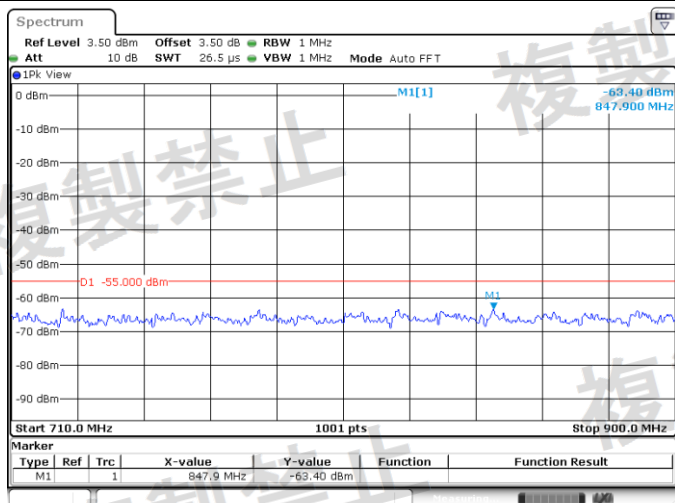
RX-923.4MHz-CSE-30MHz-710MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 13:45:14

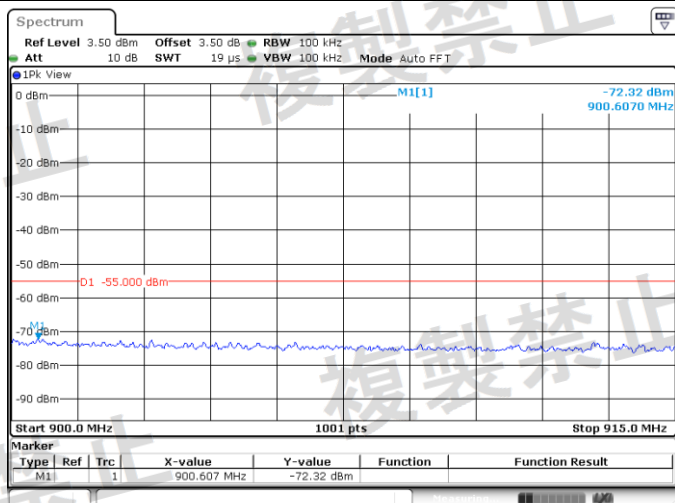
RX-923.4MHz-CSE-710MHz-900MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 13:45:37

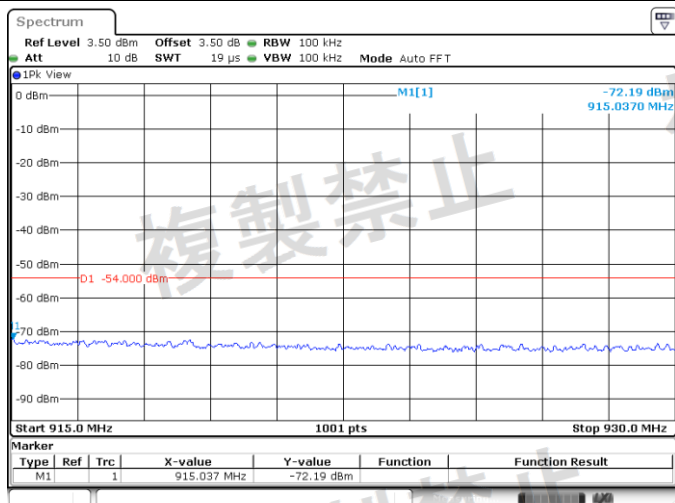
RX-923.4MHz-CSE-900MHz-915MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 13:46:00

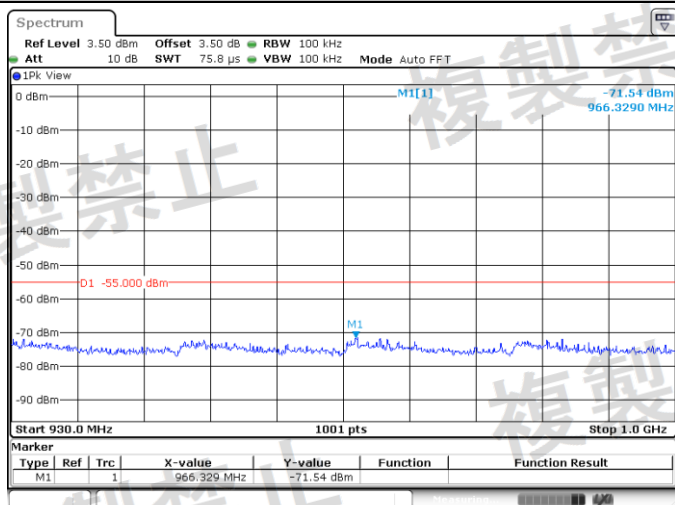
RX-923.4MHz-CSE-915MHz-930MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 13:46:23

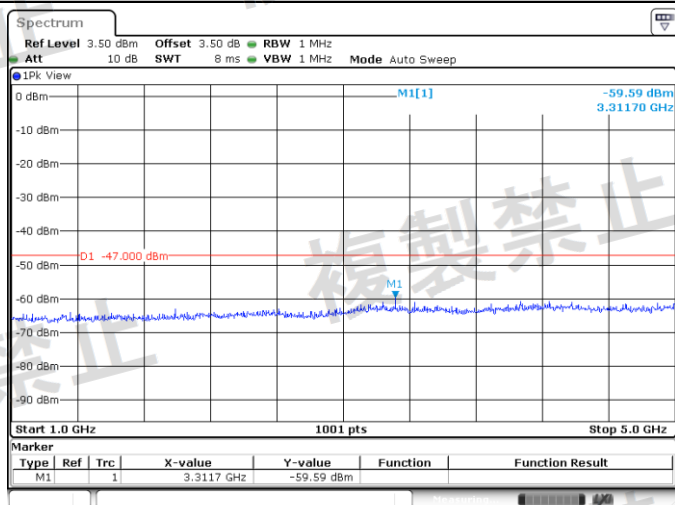
RX-923.4MHz-CSE-930MHz-1GHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 13:46:45

RX-923.4MHz-CSE-1GHz-5GHz

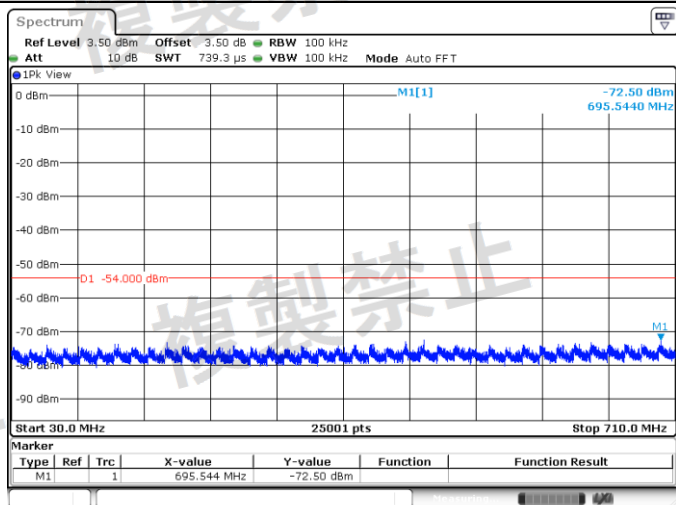


ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 13:47:08

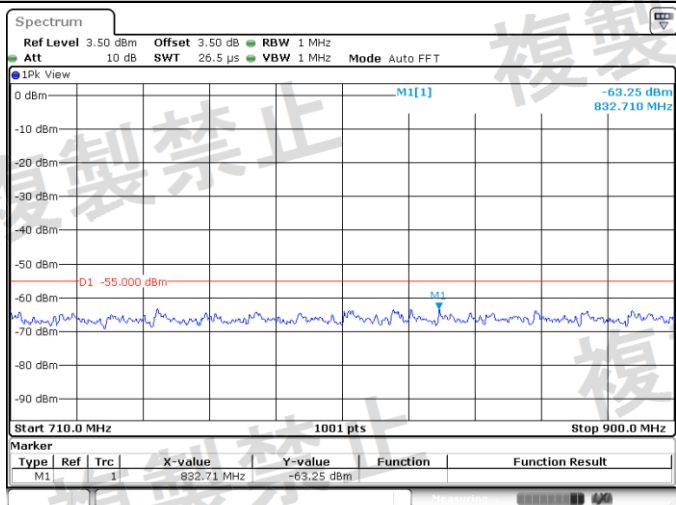
For 500kHz:

RX-922MHz-CSE-30MHz-710MHz



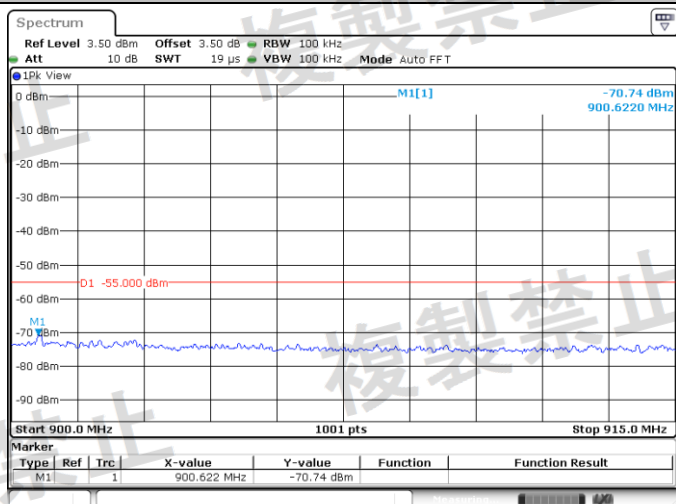
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Date: 26.DEC.2025 13:51:15

RX-922MHz-CSE-710MHz-900MHz



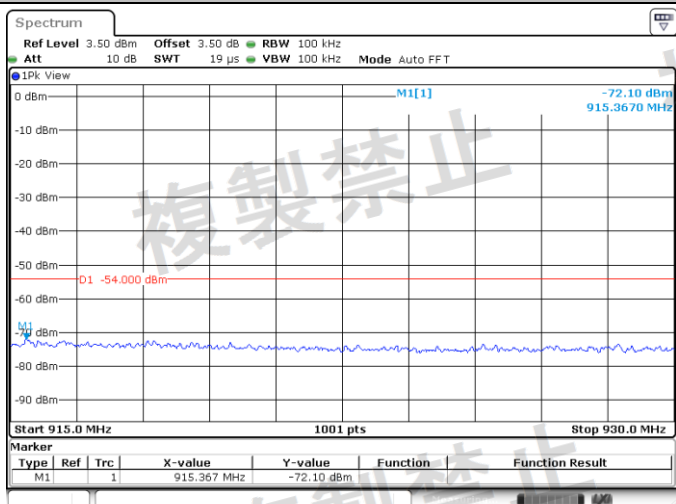
ProjectNo.:2504A09666E-RF Tester:Benny Li
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RX-922MHz-CSE-900MHz-915MHz



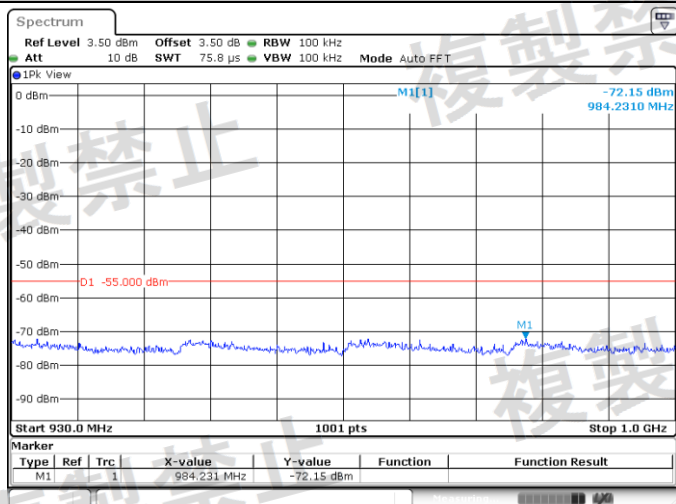
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:52:01

RX-922MHz-CSE-915MHz-930MHz



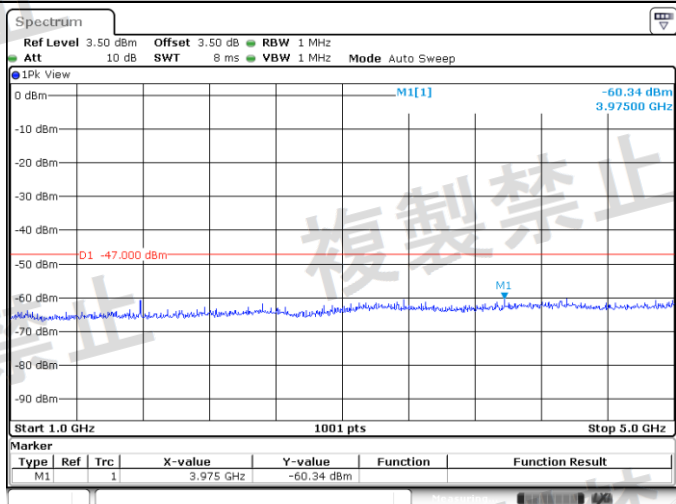
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Date: 26.DEC.2025 13:52:23

RX-922MHz-CSE-930MHz-1GHz



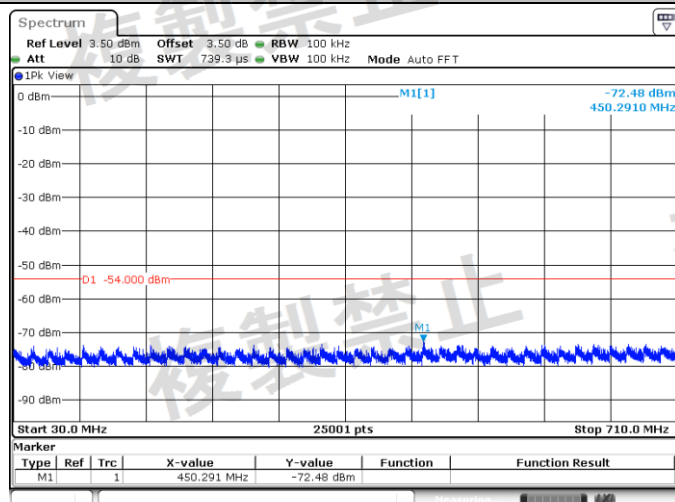
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:52:46

RX-922MHz-CSE-1GHz-5GHz



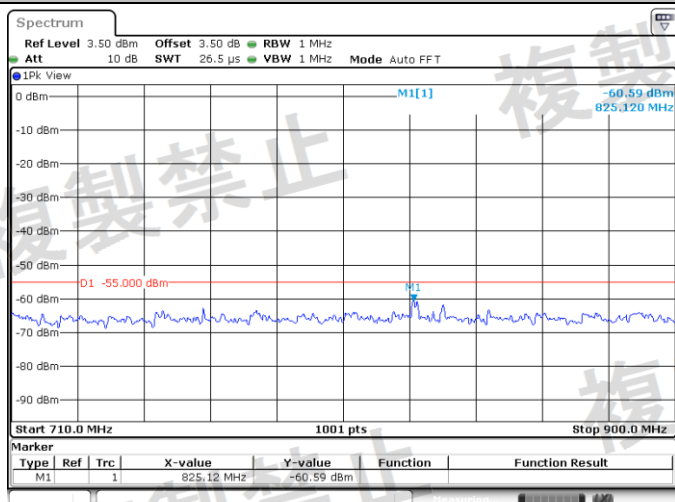
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Date: 26.DEC.2025 13:53:19

RX-922.8MHz-CSE-30MHz-710MHz



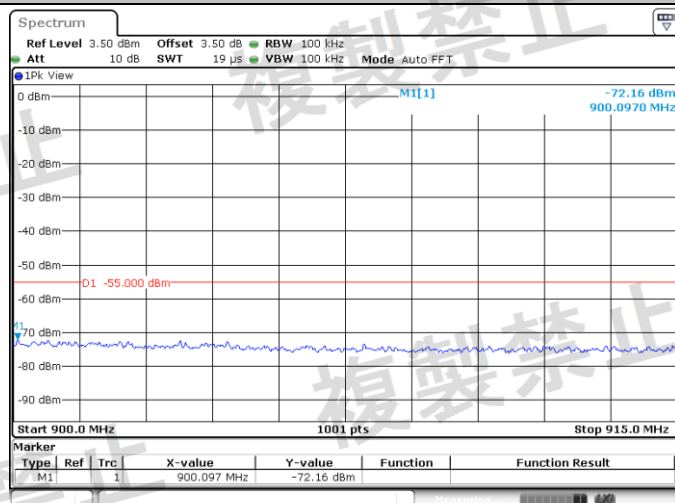
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:59:16

RX-922.8MHz-CSE-710MHz-900MHz



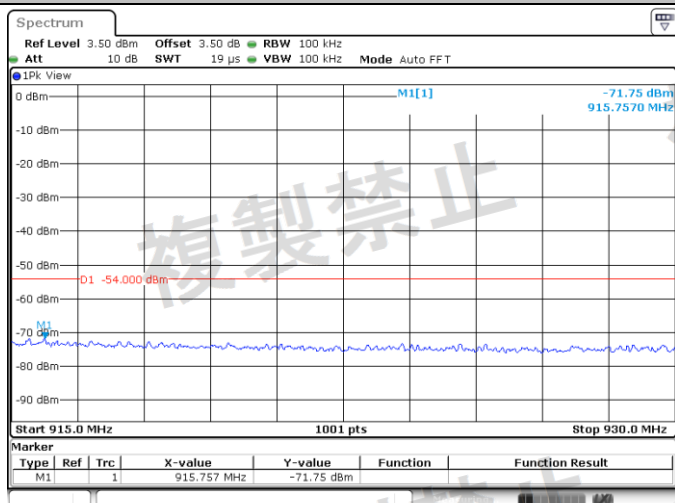
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 13:59:49

RX-922.8MHz-CSE-900MHz-915MHz



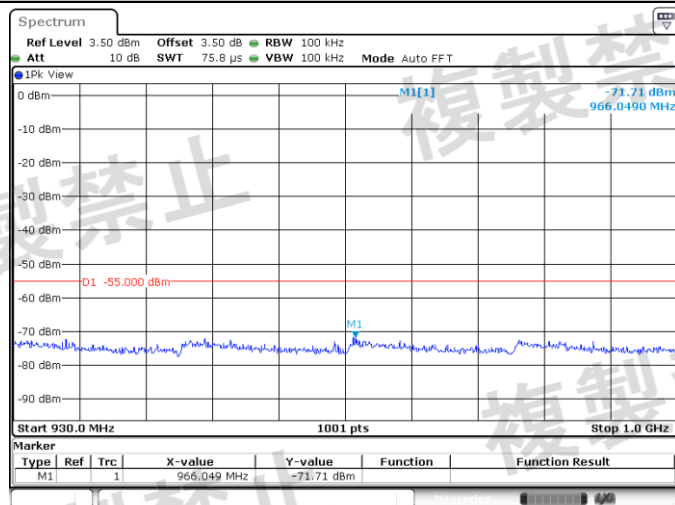
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 14:00:11

RX-922.8MHz-CSE-915MHz-930MHz



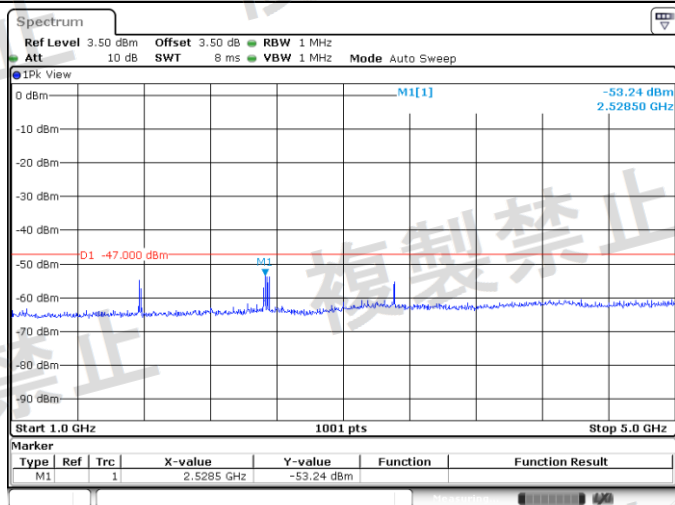
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Date: 26.DEC.2025 14:00:34

RX-922.8MHz-CSE-930MHz-1GHz



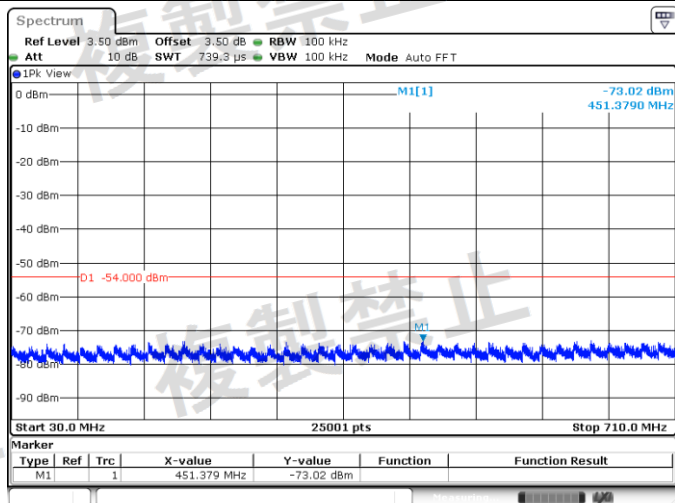
ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 14:00:56

RX-922.8MHz-CSE-1GHz-5GHz



ProjectNo.:2504A09666E-RF Tester:Benny Li
Date: 26.DEC.2025 14:02:20

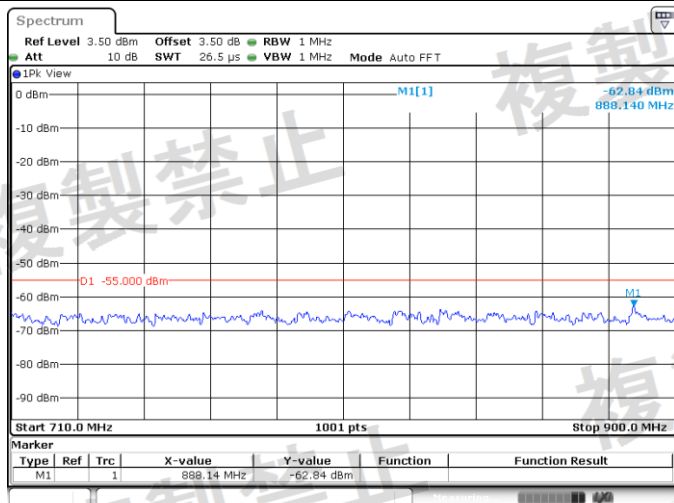
RX-923.4MHz-CSE-30MHz-710MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 14:05:41

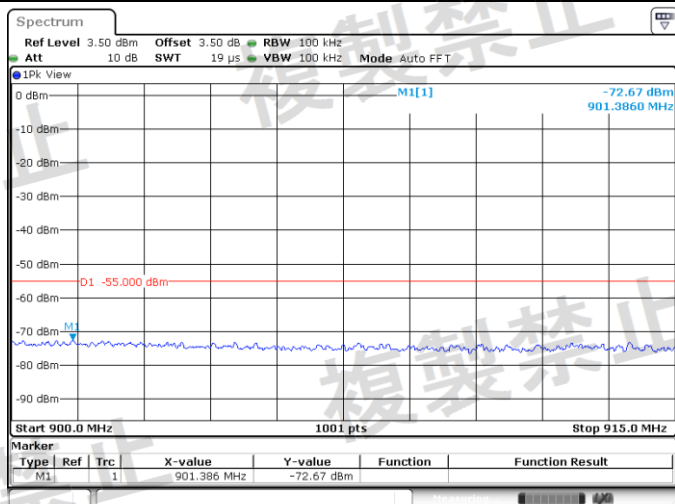
RX-923.4MHz-CSE-710MHz-900MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 14:06:04

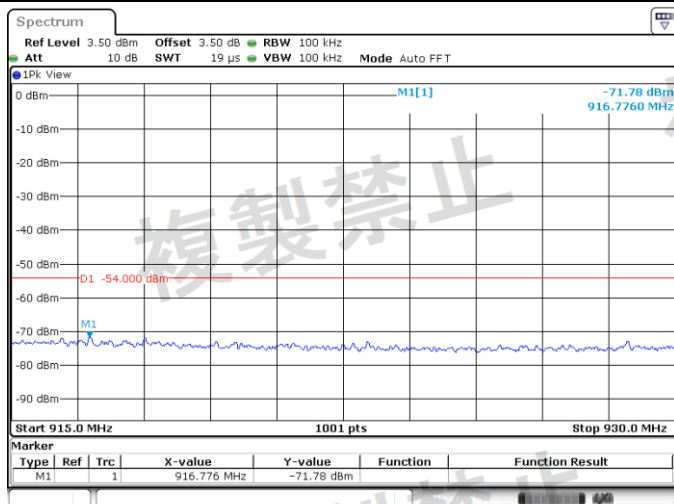
RX-923.4MHz-CSE-900MHz-915MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 14:06:26

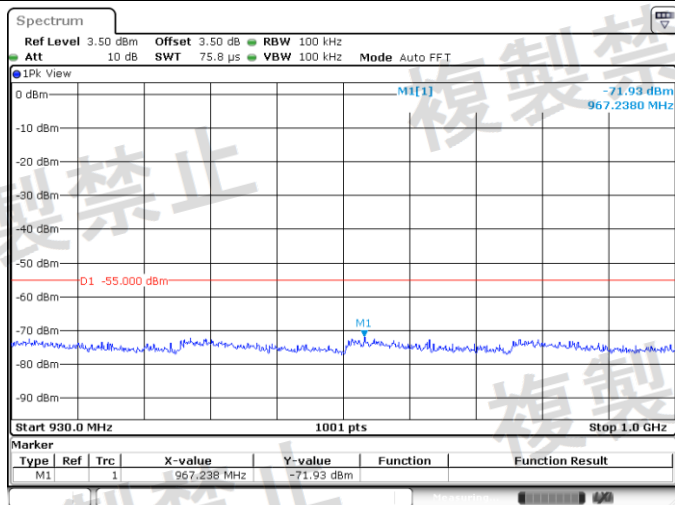
RX-923.4MHz-CSE-915MHz-930MHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 14:06:49

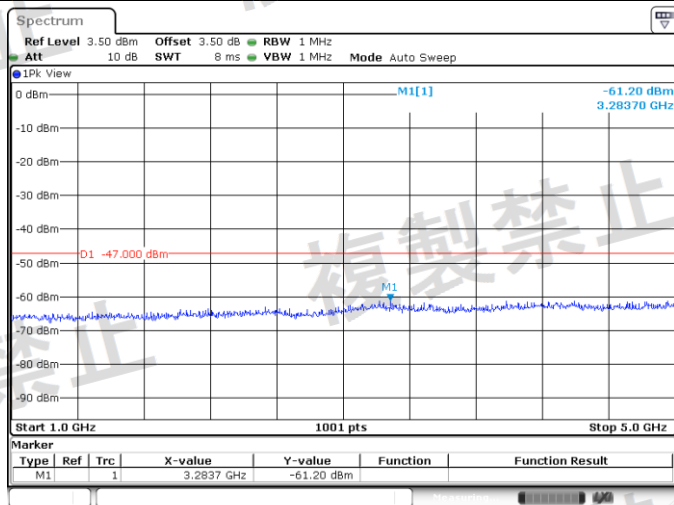
RX-923.4MHz-CSE-930MHz-1GHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 14:07:11

RX-923.4MHz-CSE-1GHz-5GHz



ProjectNo.:2504A09666E-RF Tester:Benny Li

Date: 26.DEC.2025 14:09:39

Appendix G: Transmitting Time Restrictions

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/26-2026/1/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.4-25.1	Relative Humidity: (%)	46-48	ATM Pressure: (kPa)	100.9-101.8
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Test Data Tables

Mod	Frequency (MHz)	Transmission time (ms)	Limit (ms)	Suspend Time (ms)	Limit (ms)
125K	923.4	39.45	<400	462.15	>2
500K	923.4	12.8		488.2	

Sum of emission time per arbitrary one hour:

Mod	Frequency (MHz)	Transmission time (ms)	Cycle time (ms)	Calculated Transmission times per hour	Sum of emission time per arbitrary one hour (s)	Limit (s)
125K	923.4	39.45	501.60	7177	283.133	360
500K	923.4	12.8	501	7186	91.981	

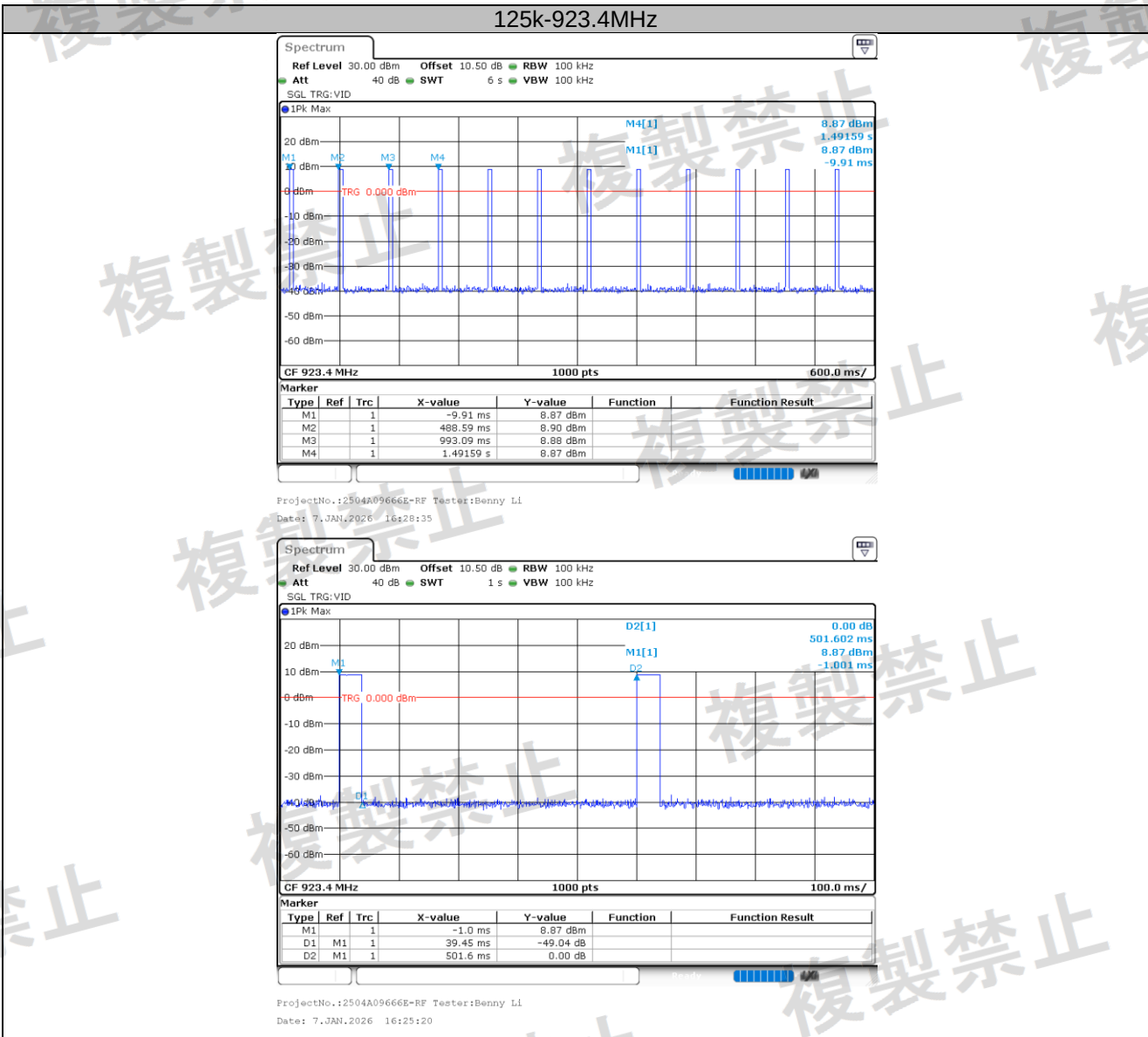
Note 1: The manufacturer declared the transmission time of all channel per one hour is less than 720s

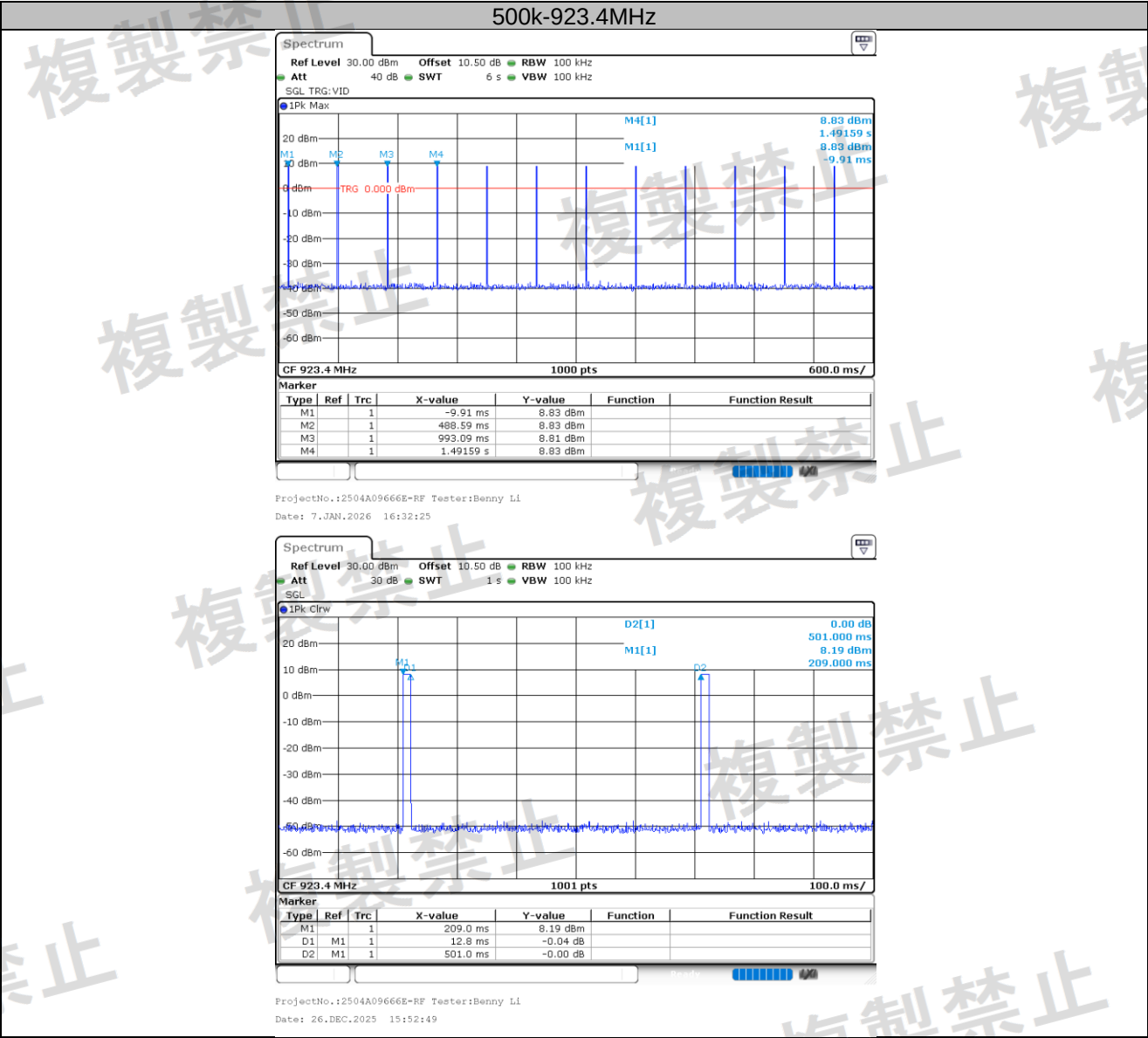
Note 2: Suspend Time= Cycle time- Transmission time

Note 3: Calculated Transmission times per hour = 1hour/ Cycle time

Note 4: Sum of emission time per arbitrary one hour= Transmission time *Calculated Transmission times per hour.

Test Graphs





Carrier Sensing Function

Test Information:

Sample No.:	3ELR-1	Test Date:	2025/12/26-2026/1/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Benny Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.4-25.1	Relative Humidity: (%)	46-48	ATM Pressure: (kPa)	100.9-101.8
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Test Result: Good.

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504A09666E-RF EUT External Photos and Attachment No.2 2504A09666E-RF EUT Internal Photos.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.3 2504A09666E-RF Test Photos.

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